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TCS-84868/65
June 1965

DECLASS REVIEW BY NIMA / DoD

TECHNICAL PUBLICATION

FRAME EPHEMERIS AND CAMERA ORIENTATION DATA
MISSION 1017-2

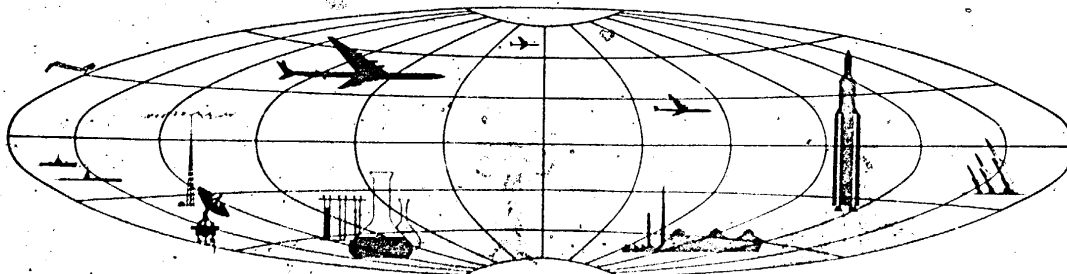
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TCS-84868, 65

FRAME EPHEMERIS AND CAMERA ORIENTATION DATA MISSION 1017-2

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PREFACE

This publication contains the ephemeris for the cameras employed in Mission 1017-2. It also contains the attitude values of pitch and roll as derived from the horizon camera images. The horizon camera data were used because the steller/index system usually employed in these missions failed after a few frames were exposed. As a result of this failure, yaw was not determined at all. One additional column, scan rate, which notes camera lens rotational velocity, is included.

For convenience, the data have been arranged in 2 parts, Part I pertaining to the forward camera unit and Part II pertaining to the aft camera unit. Within each part the data have been arranged by photographic pass and, within a given pass, by frame number. Ascending, (south-to-north) passes are suffixed with the letter "A" and descending passes (north-to-south) are suffixed with the "D."

Frames for which no attitude data have been reduced (because of no imagery or poor imagery) have the letters "ND" in the appropriate columns opposite the given frame.

For this mission, attitude has been reduced for the forward camera with only one exception. This is a part of pass 137D, where there was no forward camera operation.

Attitude for aft camera frames may be computed through the following procedure:

1. Find the forward camera frame with time of exposure nearest to that of the desired aft frame.
2. Apply the same value as the listed forward roll value to the aft frame.
3. Algebraically add -29 degrees, 53 minutes, to the listed forward pitch value and apply the result to the aft frame as its pitch value.
4. No conversion factor is needed for those aft frames on pass 137D, where values are given.

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DEFINITIONS

- TIME DIFFERENCE - DTIM MILS - THE INTERVAL OF TIME IN MILLISECONDS BETWEEN CLOCK READINGS OF CONSECUTIVE FRAMES. CLOCK READINGS ARE DESIGNED TO BE TAKEN AT THE TIME OF EXPOSURE OF THE CENTER OF FORMAT. CONSEQUENTLY, THE TIME DIFFERENCE IS APPROXIMATELY THE SAME AS THE CAMERA CYCLE PERIOD.
- CAMERA NADIR - THE GEODETIC LATITUDE AND LONGITUDE AT THE POINT OF INTERSECTION OF THE NADIR LINE AND THE HOUGH ELLIPSOID.
- FORMAT CENTER - THE GEODETIC LATITUDE AND LONGITUDE OF THE CENTER OF FORMAT AS COMPUTED FROM THE CAMERA NADIR, ALTITUDE, AND CAMERA ATTITUDE AT THE TIME OF EXPOSURE. NOMINAL ATTITUDE VALUES ARE USED WHEN MEASURED VALUES ARE NOT AVAILABLE.
- ALTITUDE - THE DISTANCE FROM THE VEHICLE TO THE HOUGH ELLIPSOID AT THE FOOT OF THE PERPENDICULAR.
- VELOCITY - GROUND SPEED OF THE NADIR, INCLUDING EARTH ROTATION.
- AZIMUTH - ANGLE OF THE GROUND TRACK WITH RESPECT TO GEODETIC COORDINATES.
- YAW - TREATED AS PRIMARY ROTATION IN COMPUTATIONS. DEVIATION ABOUT THE CAMERA'S VERTICAL AXIS. PLUS YAW REPRESENTS "NOSE-LEFT" ATTITUDE AS VIEWED FROM THE TOP OF THE CAMERA.
- PITCH - TREATED AS THE SECONDARY ROTATION IN COMPUTATIONS. DEVIATION ABOUT THE CAMERA'S TRANSVERSE AXIS. PLUS PITCH REPRESENTS "NOSE-UP" ATTITUDE.
- ROLL - TREATED AS THE TERTIARY ROTATION IN COMPUTATIONS. DEVIATION ABOUT THE CAMERA'S LONGITUDINAL AXIS. PLUS ROLL REPRESENTS "LEFT-WING-UP" ATTITUDE.
- SUN ANGLE - THE ANGLE FORMED BY THE LOCAL TANGENT PLANE AND THE RAYS OF THE SUN WITH THE VERTEX AT THE FORMAT CENTER.
- SCAN RATE - THE AVERAGE ROTATIONAL VELOCITY OF THE LENS SYSTEM DURING THE SWEEP CYCLE. RADIAN PER SECOND.

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TALENT-KEYHOLE

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V

PART 1

| FRM | 2 TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | | | | | | | | |
|-----|--------|------|--------|-------|--------|--------|----------|--------|---------|------|-------|------|--------|-------|-----|----|-----|-----|-----|-----|------|----|----|-------|
| HR | MI | SEC | MILS | DEG | MIN | LONG | DEG | MIN | LONG | MIN | FEET | F/S | DEG | MI | DEG | MI | DEG | MIN | DEG | MIN | RATE | | | |
| 1 | 0 | 37 | 45.742 | 0 | 69 | 47.08N | 145 | 6.02E | 69 | 27N | 146 | 8E | 707842 | 24428 | 133 | 0 | 11 | 30 | 14 | 4 | -0 | 3 | ND | 1.963 |
| 2 | 0 | 37 | 48.942 | 3200 | 69 | 38.31N | 145 | 32.93E | 69 | 18N | 146 | 34E | 706982 | 24430 | 133 | 27 | 11 | 42 | 14 | 5 | -0 | 1 | ND | 1.963 |
| 3 | 0 | 37 | 51.782 | 2840 | 69 | 30.46N | 145 | 56.49E | 69 | 11N | 146 | 57E | 706221 | 24431 | 133 | 50 | 11 | 53 | 14 | 5 | -0 | 0 | ND | 2.212 |
| 4 | 0 | 37 | 54.497 | 2715 | 69 | 22.98N | 146 | 18.74E | 69 | 3N | 147 | 19E | 705496 | 24433 | 134 | 12 | 12 | 14 | 14 | 5 | 0 | 1 | ND | 2.314 |
| 5 | 0 | 37 | 57.157 | 2660 | 69 | 15.45N | 146 | 40.29E | 68 | 55N | 147 | 40E | 704786 | 24435 | 134 | 34 | 12 | 14 | 14 | 6 | 0 | 2 | ND | 2.362 |
| 6 | 0 | 37 | 59.782 | 2625 | 69 | 8.04N | 147 | 1.30E | 68 | 48N | 148 | 0E | 704087 | 24436 | 134 | 55 | 12 | 24 | 14 | 7 | 0 | 3 | ND | 2.394 |
| 7 | 4 | 38 | 2.397 | 2615 | 69 | 0.62N | 147 | 22.00E | 68 | 40N | 148 | 20E | 703391 | 24438 | 135 | 15 | 12 | 34 | 14 | 8 | 0 | 4 | ND | 2.403 |
| 8 | 0 | 38 | 4.997 | 2600 | 68 | 53.20N | 147 | 42.33E | 68 | 33N | 148 | 40E | 702702 | 24439 | 135 | 35 | 12 | 44 | 14 | 9 | 0 | 5 | ND | 2.417 |
| 9 | 0 | 38 | 7.589 | 2591 | 68 | 45.76N | 148 | 2.37E | 68 | 25N | 148 | 59E | 702215 | 24441 | 135 | 55 | 12 | 54 | 14 | 10 | 0 | 5 | ND | 2.425 |
| 10 | 0 | 38 | 10.173 | 2584 | 68 | 38.30N | 148 | 22.12E | 68 | 18N | 149 | 19E | 701331 | 24443 | 136 | 15 | 13 | 4 | 14 | 11 | 0 | 7 | ND | 2.432 |
| 11 | 0 | 38 | 12.747 | 2575 | 68 | 30.83N | 148 | 41.58E | 68 | 10N | 149 | 30E | 700653 | 24444 | 136 | 34 | 13 | 24 | 14 | 12 | 0 | 8 | ND | 2.440 |
| 12 | 0 | 38 | 15.322 | 2575 | 68 | 23.32N | 149 | 0.82E | 68 | 3N | 149 | 56E | 699974 | 24446 | 136 | 53 | 13 | 24 | 14 | 13 | 0 | 9 | ND | 2.440 |
| 13 | 0 | 38 | 17.888 | 2565 | 68 | 15.79N | 149 | 19.78E | 67 | 55N | 150 | 15E | 699300 | 24447 | 137 | 12 | 13 | 34 | 14 | 13 | 0 | 11 | ND | 2.450 |
| 14 | 0 | 38 | 20.442 | 2555 | 68 | 8.26N | 149 | 38.44E | 67 | 47N | 150 | 33E | 698629 | 24449 | 137 | 31 | 13 | 44 | 14 | 15 | 0 | 12 | ND | 2.459 |
| 15 | 0 | 38 | 23.003 | 2560 | 68 | 0.67N | 149 | 56.94E | 67 | 40N | 150 | 51E | 697959 | 24450 | 137 | 49 | 13 | 54 | 14 | 16 | 0 | 14 | ND | 2.454 |
| 16 | 0 | 38 | 25.558 | 2555 | 67 | 53.06N | 150 | 15.19E | 67 | 32N | 151 | 9E | 697291 | 24452 | 138 | 7 | 14 | 3 | 14 | 17 | 0 | 15 | ND | 2.459 |
| 17 | 0 | 38 | 28.107 | 2550 | 67 | 45.43N | 150 | 33.20E | 67 | 24N | 151 | 20E | 696626 | 24453 | 138 | 25 | 14 | 13 | 14 | 18 | 0 | 16 | ND | 2.464 |
| 18 | 0 | 38 | 30.647 | 2540 | 67 | 37.88N | 150 | 50.94E | 67 | 17N | 151 | 44E | 695965 | 24455 | 138 | 43 | 14 | 23 | 14 | 19 | 0 | 17 | ND | 2.474 |
| 19 | 0 | 38 | 33.188 | 2541 | 67 | 30.12N | 151 | 8.49E | 67 | 9N | 152 | 1E | 695305 | 24457 | 139 | 0 | 14 | 43 | 14 | 20 | 0 | 18 | ND | 2.473 |
| 20 | 0 | 38 | 35.732 | 2544 | 67 | 22.40N | 151 | 25.87E | 67 | 1N | 152 | 18E | 694646 | 24458 | 139 | 17 | 14 | 33 | 14 | 22 | 0 | 20 | ND | 2.478 |
| 21 | 0 | 38 | 38.263 | 2530 | 67 | 14.78N | 151 | 42.96E | 66 | 53N | 152 | 34E | 693992 | 24460 | 139 | 34 | 14 | 45 | 14 | 23 | 0 | 21 | ND | 2.483 |
| 22 | 0 | 38 | 40.793 | 2530 | 67 | 6.95N | 151 | 59.86E | 66 | 45N | 152 | 51E | 693338 | 24461 | 139 | 51 | 15 | 2 | 14 | 23 | 0 | 22 | ND | 2.483 |
| 23 | 0 | 38 | 43.317 | 2525 | 66 | 59.20N | 152 | 16.55E | 66 | 38N | 153 | 7E | 692687 | 24463 | 140 | 7 | 15 | 12 | 14 | 25 | 0 | 23 | ND | 2.488 |
| 24 | 0 | 38 | 45.843 | 2525 | 66 | 51.41N | 152 | 33.05E | 66 | 30N | 153 | 23E | 692038 | 24464 | 140 | 24 | 15 | 22 | 14 | 26 | 0 | 24 | ND | 2.488 |
| 25 | 0 | 38 | 48.357 | 2515 | 66 | 43.62N | 152 | 49.31E | 66 | 22N | 153 | 39E | 691393 | 24466 | 140 | 40 | 15 | 31 | 14 | 26 | 0 | 25 | ND | 2.498 |
| 26 | 0 | 38 | 50.878 | 2520 | 66 | 35.78N | 153 | 5.43E | 66 | 14N | 153 | 55E | 690748 | 24467 | 140 | 56 | 15 | 41 | 14 | 27 | 0 | 27 | ND | 2.493 |
| 27 | 0 | 38 | 53.388 | 2510 | 66 | 27.95N | 153 | 21.30E | 66 | 6N | 154 | 10E | 690107 | 24469 | 141 | 12 | 15 | 51 | 14 | 29 | 0 | 27 | ND | 2.503 |
| 28 | 0 | 38 | 55.893 | 2505 | 66 | 20.10N | 153 | 36.98E | 65 | 58N | 154 | 25E | 689468 | 24470 | 141 | 27 | 16 | 10 | 14 | 30 | 0 | 28 | ND | 2.508 |
| 29 | 0 | 38 | 58.402 | 2510 | 66 | 12.21N | 153 | 52.51E | 65 | 50N | 154 | 40E | 688830 | 24472 | 141 | 42 | 16 | 18 | 14 | 31 | 0 | 28 | ND | 2.503 |
| 30 | 0 | 39 | 0.907 | 2505 | 66 | 4.30N | 154 | 7.85E | 65 | 42N | 154 | 55E | 688194 | 24473 | 141 | 58 | 16 | 20 | 14 | 32 | 0 | 29 | ND | 2.508 |
| 31 | 0 | 39 | 3.402 | 2495 | 65 | 56.40N | 154 | 22.97E | 65 | 34N | 155 | 10E | 687562 | 24474 | 142 | 13 | 16 | 29 | 14 | 33 | 0 | 29 | ND | 2.518 |
| 32 | 0 | 39 | 5.898 | 2496 | 65 | 48.47N | 154 | 37.93E | 65 | 26N | 155 | 24E | 686931 | 24476 | 142 | 27 | 16 | 39 | 14 | 35 | 0 | 29 | ND | 2.517 |
| 33 | 0 | 39 | 8.398 | 2500 | 65 | 40.50N | 154 | 52.76E | 65 | 18N | 155 | 39E | 686301 | 24477 | 142 | 42 | 16 | 49 | 14 | 36 | 0 | 29 | ND | 2.513 |
| 34 | 0 | 39 | 10.889 | 2490 | 65 | 32.54N | 155 | 7.37E | 65 | 10N | 155 | 53E | 685674 | 24479 | 142 | 56 | 16 | 58 | 14 | 38 | 0 | 29 | ND | 2.523 |
| 35 | 0 | 39 | 13.379 | 2490 | 65 | 24.54N | 155 | 21.83E | 65 | 2N | 156 | 7E | 685050 | 24480 | 143 | 11 | 17 | 8 | 14 | 39 | 0 | 28 | ND | 2.523 |
| 36 | 0 | 39 | 15.862 | 2484 | 65 | 16.55N | 155 | 36.10E | 64 | 54N | 156 | 21E | 684428 | 24482 | 143 | 25 | 17 | 17 | 14 | 40 | 0 | 27 | ND | 2.529 |
| 37 | 0 | 39 | 18.349 | 2486 | 65 | 8.52N | 155 | 50.24E | 64 | 46N | 156 | 35E | 683806 | 24483 | 143 | 39 | 17 | 27 | 14 | 41 | 0 | 27 | ND | 2.527 |
| 38 | 0 | 39 | 20.832 | 2484 | 65 | 0.47N | 156 | 4.21E | 64 | 37N | 156 | 48E | 683187 | 24485 | 143 | 53 | 17 | 37 | 14 | 43 | 0 | 26 | ND | 2.529 |
| 39 | 0 | 39 | 23.308 | 2475 | 64 | 52.43N | 156 | 18.00E | 64 | 29N | 157 | 1E | 682572 | 24486 | 144 | 6 | 17 | 46 | 14 | 45 | 0 | 24 | ND | 2.539 |

| FRM | 2 TIME | DTIM | CAMERA NADIR | FORMAT CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | | | | | | | | | | | | |
|-------|--------|------|--------------|---------------|----------|--------|---------|--------|---------|---------|---------|------|--------|-------|-----|----|----|----|----|----|----|----|----|----|-------|-------|
| HR MI | SEC | MILS | LAT DEG MIN | LONG DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE | | | | | | | | | | | | | | |
| 1 | 2 | 7 | 58.271 | 0 | 68 | 58.31N | 124 | 47.03E | 68 | 38N | 125 | 47E | 702318 | 24440 | 135 | 22 | 12 | 36 | 14 | 20 | 0 | 14 | 14 | 21 | 1.821 | |
| 2 | 2 | 8 | 1.722 | 3450 | 68 | 48.43N | 125 | 14.67E | 68 | 28N | 126 | 13E | 701408 | 24442 | 135 | 48 | 12 | 49 | 14 | 21 | 0 | 14 | 14 | 21 | 1.821 | |
| 3 | 2 | 8 | 4.616 | 2895 | 68 | 40.09N | 125 | 36.87E | 68 | 19N | 126 | 35E | 700643 | 24444 | 136 | 11 | 13 | 0 | 14 | 22 | 0 | 14 | 14 | 22 | 2.178 | |
| 4 | 2 | 8 | 7.352 | 2735 | 68 | 32.16N | 125 | 57.60E | 68 | 11N | 126 | 55E | 699924 | 24446 | 136 | 31 | 13 | 11 | 14 | 23 | 0 | 13 | 14 | 23 | 2.297 | |
| 5 | 2 | 8 | 10.007 | 2655 | 68 | 24.42N | 126 | 17.48E | 68 | 3N | 127 | 14E | 699226 | 24447 | 136 | 51 | 13 | 21 | 14 | 24 | 0 | 14 | 14 | 24 | 2.367 | |
| 6 | 2 | 8 | 12.643 | 2636 | 68 | 16.69N | 126 | 36.98E | 67 | 56N | 127 | 33E | 698536 | 24449 | 137 | 18 | 13 | 31 | 14 | 24 | 0 | 14 | 14 | 24 | 2.384 | |
| 7 | 2 | 8 | 15.267 | 2624 | 68 | 8.95N | 126 | 56.17E | 67 | 48N | 127 | 52E | 697850 | 24451 | 137 | 29 | 13 | 41 | 14 | 25 | 0 | 15 | 14 | 25 | 2.395 | |
| 8 | 2 | 8 | 17.866 | 2600 | 68 | 1.25N | 127 | 14.97E | 67 | 40N | 128 | 10E | 696717 | 24452 | 137 | 48 | 13 | 51 | 14 | 26 | 0 | 16 | 14 | 26 | 2.417 | |
| 9 | 2 | 8 | 20.452 | 2586 | 67 | 53.55N | 127 | 33.45E | 67 | 32N | 128 | 28E | 696498 | 24454 | 138 | 6 | 14 | 14 | 14 | 27 | 0 | 16 | 14 | 27 | 2.438 | |
| 10 | 2 | 8 | 23.036 | 2584 | 67 | 45.82N | 127 | 51.72E | 67 | 24N | 128 | 45E | 695826 | 24455 | 138 | 24 | 14 | 14 | 11 | 14 | 27 | 0 | 18 | 14 | 27 | 2.452 |
| 11 | 2 | 8 | 25.611 | 2575 | 67 | 38.08N | 128 | 9.71E | 67 | 17N | 129 | 3E | 695158 | 24457 | 138 | 42 | 14 | 21 | 14 | 28 | 0 | 18 | 14 | 28 | 2.440 | |
| 12 | 2 | 8 | 28.177 | 2565 | 67 | 30.33N | 128 | 27.44E | 67 | 9N | 129 | 20E | 694494 | 24458 | 139 | 0 | 14 | 31 | 14 | 29 | 0 | 19 | 14 | 29 | 2.450 | |
| 13 | 2 | 8 | 30.736 | 2560 | 67 | 22.57N | 128 | 44.93E | 67 | 1N | 129 | 37E | 693833 | 24460 | 139 | 17 | 14 | 41 | 14 | 29 | 0 | 20 | 14 | 29 | 2.454 | |
| 14 | 2 | 8 | 33.297 | 2560 | 67 | 14.77N | 129 | 2.23E | 66 | 53N | 129 | 54E | 693172 | 24461 | 139 | 34 | 14 | 51 | 14 | 30 | 0 | 21 | 14 | 30 | 2.454 | |
| 15 | 2 | 8 | 35.847 | 2550 | 67 | 6.96N | 129 | 19.27E | 66 | 45N | 130 | 11E | 692517 | 24463 | 139 | 51 | 15 | 1 | 14 | 31 | 0 | 24 | 14 | 31 | 2.459 | |
| 16 | 2 | 8 | 38.401 | 2555 | 66 | 59.11N | 129 | 36.35E | 66 | 37N | 130 | 27E | 691860 | 24464 | 140 | 8 | 15 | 10 | 14 | 31 | 0 | 25 | 14 | 31 | 2.464 | |
| 17 | 2 | 8 | 40.941 | 2540 | 66 | 51.28N | 129 | 52.75E | 66 | 29N | 130 | 43E | 691210 | 24466 | 140 | 24 | 15 | 20 | 14 | 31 | 0 | 25 | 14 | 31 | 2.474 | |
| 18 | 2 | 8 | 43.481 | 2540 | 66 | 43.41N | 130 | 9.16E | 66 | 22N | 130 | 59E | 690561 | 24467 | 140 | 48 | 15 | 30 | 14 | 31 | 0 | 27 | 14 | 31 | 2.474 | |
| 19 | 2 | 8 | 46.021 | 2540 | 66 | 35.51N | 130 | 25.40E | 66 | 14N | 131 | 15E | 689912 | 24469 | 140 | 57 | 15 | 40 | 14 | 32 | 0 | 28 | 14 | 32 | 2.474 | |
| 20 | 2 | 8 | 48.552 | 2530 | 66 | 27.61N | 130 | 41.40E | 66 | 6N | 131 | 30E | 689269 | 24470 | 141 | 12 | 15 | 49 | 14 | 32 | 0 | 30 | 14 | 32 | 2.483 | |
| 21 | 2 | 8 | 51.081 | 2530 | 66 | 19.68N | 130 | 57.22E | 65 | 58N | 131 | 46E | 688626 | 24472 | 141 | 28 | 15 | 59 | 14 | 32 | 0 | 31 | 14 | 32 | 2.483 | |
| 22 | 2 | 8 | 53.611 | 2530 | 66 | 11.72N | 131 | 12.87E | 65 | 50N | 132 | 1E | 687985 | 24473 | 141 | 44 | 16 | 9 | 14 | 33 | 0 | 32 | 14 | 33 | 2.483 | |
| 23 | 2 | 8 | 56.137 | 2525 | 66 | 3.75N | 131 | 28.33E | 65 | 42N | 132 | 16E | 687347 | 24475 | 141 | 59 | 16 | 19 | 14 | 33 | 0 | 33 | 14 | 33 | 2.488 | |
| 24 | 2 | 8 | 58.656 | 2520 | 65 | 55.77N | 131 | 43.65E | 65 | 34N | 132 | 31E | 686711 | 24476 | 142 | 14 | 16 | 28 | 14 | 34 | 0 | 35 | 14 | 34 | 2.493 | |
| 25 | 2 | 9 | 1.172 | 2515 | 65 | 47.77N | 131 | 58.58E | 65 | 26N | 132 | 46E | 686078 | 24478 | 142 | 29 | 16 | 38 | 14 | 34 | 0 | 36 | 14 | 34 | 2.498 | |
| 26 | 2 | 9 | 3.687 | 2515 | 65 | 39.75N | 132 | 13.55E | 65 | 18N | 133 | 0E | 685446 | 24479 | 142 | 44 | 16 | 48 | 14 | 34 | 0 | 37 | 14 | 34 | 2.498 | |
| 27 | 2 | 9 | 6.196 | 2510 | 65 | 31.72N | 132 | 28.26E | 65 | 9N | 133 | 14E | 684817 | 24481 | 142 | 58 | 16 | 57 | 14 | 34 | 0 | 38 | 14 | 34 | 2.503 | |
| 28 | 2 | 9 | 8.697 | 2501 | 65 | 23.69N | 132 | 42.77E | 65 | 1N | 133 | 28E | 684192 | 24482 | 143 | 12 | 17 | 7 | 14 | 35 | 0 | 40 | 14 | 35 | 2.512 | |
| 29 | 2 | 9 | 11.197 | 2500 | 65 | 15.64N | 132 | 57.12E | 64 | 53N | 133 | 42E | 683569 | 24484 | 143 | 27 | 17 | 17 | 14 | 35 | 0 | 41 | 14 | 35 | 2.513 | |
| 30 | 2 | 9 | 13.696 | 2499 | 65 | 7.56N | 133 | 11.31E | 64 | 45N | 133 | 56E | 682947 | 24485 | 143 | 41 | 17 | 26 | 14 | 36 | 0 | 42 | 14 | 36 | 2.514 | |
| 31 | 2 | 9 | 16.187 | 2490 | 64 | 59.49N | 133 | 25.30E | 64 | 37N | 134 | 10E | 682329 | 24487 | 143 | 54 | 17 | 36 | 14 | 36 | 0 | 43 | 14 | 36 | 2.523 | |
| 32 | 2 | 9 | 18.677 | 2490 | 64 | 51.48N | 133 | 39.15E | 64 | 29N | 134 | 23E | 681712 | 24488 | 144 | 8 | 17 | 45 | 14 | 36 | 0 | 45 | 14 | 36 | 2.523 | |
| 33 | 2 | 9 | 21.172 | 2495 | 64 | 43.27N | 133 | 52.88E | 64 | 21N | 134 | 37E | 681095 | 24489 | 144 | 22 | 17 | 55 | 14 | 36 | 0 | 46 | 14 | 36 | 2.518 | |
| 34 | 2 | 9 | 23.651 | 2480 | 64 | 35.16N | 134 | 6.39E | 64 | 13N | 134 | 50E | 680483 | 24491 | 144 | 35 | 18 | 4 | 14 | 36 | 0 | 47 | 14 | 36 | 2.534 | |
| 35 | 2 | 9 | 26.132 | 2480 | 64 | 27.03N | 134 | 19.76E | 64 | 4N | 135 | 3E | 679874 | 24492 | 144 | 48 | 18 | 14 | 14 | 36 | 0 | 48 | 14 | 36 | 2.534 | |
| 36 | 2 | 9 | 28.611 | 2480 | 64 | 18.87N | 134 | 32.99E | 63 | 56N | 135 | 16E | 679265 | 24494 | 145 | 1 | 18 | 24 | 14 | 37 | 0 | 49 | 14 | 37 | 2.534 | |
| 37 | 2 | 9 | 31.087 | 2475 | 64 | 10.71N | 134 | 46.08E | 63 | 48N | 135 | 28E | 678659 | 24495 | 145 | 14 | 18 | 33 | 14 | 37 | 0 | 51 | 14 | 37 | 2.539 | |
| 38 | 2 | 9 | 33.562 | 2475 | 64 | 2.53N | 134 | 59.08E | 63 | 40N | 135 | 41E | 678056 | 24496 | 145 | 27 | 18 | 43 | 14 | 37 | 0 | 52 | 14 | 37 | 2.539 | |
| 39 | 2 | 13 | 56.842 | 63280 | 48 | 13.15N | 149 | 36.51E | 47 | 48N | 149 | 51E | 623934 | 24623 | 159 | 33 | 35 | 31 | 14 | 43 | 0 | 10 | 14 | 43 | 0.024 | |
| 40 | 2 | 13 | 59.951 | 3110 | 48 | 1.34N | 149 | 42.07E | 47 | 37N | 149 | 58E | 623436 | 24625 | 159 | 39 | 35 | 43 | 14 | 43 | 0 | 10 | 14 | 43 | 2.020 | |
| 41 | 2 | 14 | 2.536 | 2585 | 47 | 51.52N | 149 | 47.47E | 47 | 27N | 150 | 3E | 623024 | 24626 | 159 | 44 | 35 | 53 | 14 | 44 | 0 | 9 | 14 | 44 | 2.431 | |
| 42 | 2 | 14 | 4.951 | 2415 | 47 | 42.35N | 149 | 52.49E | 47 | 18N | 150 | 0E | 622642 | 24626 | 159 | 48 | 36 | 2 | 14 | 44 | 0 | 9 | 14 | 44 | 2.602 | |
| 43 | 2 | 14 | 7.286 | 2335 | 47 | 33.47N | 149 | 57.32E | 47 | 9N | 150 | 13E | 622274 | 24627 | 159 | 53 | 36 | 11 | 14 | 44 | 0 | 9 | 14 | 44 | 2.691 | |
| 44 | 2 | 14 | 9.592 | 2305 | 47 | 24.69N | 150 | 2.08E | 47 | 8N | 150 | 17E | 621913 | 24628 | 159 | 57 | 36 | 20 | 14 | 44 | 0 | 9 | 14 | 44 | 2.726 | |
| 45 | 2 | 14 | 11.872 | 2281 | 47 | 16.01N | 150 | 6.70E | 46 | 51N | 150 | 22E | 621558 | 24629 | 160 | 1 | 36 | 28 | 14 | 44 | 0 | 9 | 14 | 44 | 2.755 | |

SPECIAL HANDLING REQUIRED

HANDLE VIA

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84868-64

PASS 830 FWD 3MARG5

FRAME EPHMERIS MISSION 1817-2

ID 43

LIST DATE 18MAY65

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| FRM | Z TIME | DTIM | CAMERA NADR | | | FORMAT CENTER | | | ALTITUDE VELOC | | | AZIMUTH SUN/ | | | PITCH | | ROLL | | YAW | | SCAN |
|-----------|-------------|---------|-------------|---------|------------|---------------|-----|---------|----------------|--------|--------|--------------|---------|---------|---------|---------|---------|---------|---------|------|------|
| HR MI SEC | MILS | DEG MIN | DEG LONG | DEG MIN | DEG LONG | MIN | DEG | FEET | F/S | DEG MI | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | DEG MIN | DEG MIN | DEG MIN | DEG MIN | RATE | |
| 46 | 2 14 14.142 | 2269 | 47 | 7.37N | 150 11.30E | 46 | 43N | 150 27E | 621207 | 24630 | 160 5 | 36 37 | 14 44 | 0 10 | 0 10 | ND | ND | 2.769 | | | |
| 47 | 2 14 16.397 | 2256 | 46 | 58.77N | 150 15.85E | 46 | 34N | 150 31E | 620860 | 24631 | 160 10 | 36 45 | 14 44 | 0 10 | 0 10 | ND | ND | 2.785 | | | |
| 48 | 2 14 18.656 | 2259 | 46 | 50.16N | 150 20.37E | 46 | 25N | 150 36E | 620515 | 24631 | 160 14 | 36 54 | 14 45 | 0 11 | 0 11 | ND | ND | 2.781 | | | |
| 49 | 2 14 20.906 | 2250 | 46 | 41.58N | 150 24.85E | 46 | 17N | 150 40E | 620173 | 24632 | 160 18 | 37 2 | 14 45 | 0 11 | 0 11 | ND | ND | 2.793 | | | |
| 50 | 2 14 23.151 | 2245 | 46 | 33.01N | 150 29.30E | 46 | 8N | 150 44E | 619833 | 24633 | 160 22 | 37 11 | 14 45 | 0 12 | 0 12 | ND | ND | 2.799 | | | |
| 51 | 2 14 25.396 | 2245 | 46 | 24.44N | 150 33.72E | 46 | 0N | 150 49E | 619496 | 24634 | 160 26 | 37 19 | 14 44 | 0 12 | 0 12 | ND | ND | 2.799 | | | |
| 52 | 2 14 27.637 | 2240 | 46 | 15.88N | 150 38.10E | 45 | 51N | 150 53E | 619161 | 24635 | 160 30 | 37 28 | 14 44 | 0 12 | 0 12 | ND | ND | 2.805 | | | |
| 53 | 2 14 29.871 | 2235 | 46 | 7.35N | 150 42.45E | 45 | 43N | 150 57E | 618829 | 24635 | 160 34 | 37 36 | 14 44 | 0 12 | 0 12 | ND | ND | 2.811 | | | |
| 54 | 2 14 32.111 | 2240 | 45 | 58.78N | 150 46.78E | 45 | 34N | 151 1E | 618499 | 24636 | 160 38 | 37 45 | 14 44 | 0 11 | 0 11 | ND | ND | 2.805 | | | |
| 55 | 2 14 34.352 | 2240 | 45 | 50.21N | 150 51.09E | 45 | 25N | 151 6E | 618170 | 24637 | 160 42 | 37 53 | 14 44 | 0 11 | 0 11 | ND | ND | 2.811 | | | |
| 56 | 2 14 36.576 | 2225 | 45 | 41.70N | 150 55.34E | 45 | 17N | 151 10E | 617846 | 24638 | 160 46 | 38 2 | 14 44 | 0 11 | 0 11 | ND | ND | 2.824 | | | |
| 57 | 2 14 38.807 | 2230 | 45 | 33.16N | 150 59.58E | 45 | 8N | 151 14E | 617524 | 24639 | 160 49 | 38 10 | 14 44 | 0 11 | 0 11 | ND | ND | 2.818 | | | |
| 58 | 2 14 41.031 | 2225 | 45 | 24.64N | 151 3.78E | 45 | 0N | 151 18E | 617203 | 24639 | 160 53 | 38 18 | 14 44 | 0 11 | 0 11 | ND | ND | 2.824 | | | |
| 59 | 2 14 43.262 | 2230 | 45 | 16.09N | 151 7.98E | 44 | 51N | 151 22E | 616884 | 24640 | 160 57 | 38 27 | 14 44 | 0 10 | 0 10 | ND | ND | 2.818 | | | |
| 60 | 2 14 45.491 | 2230 | 45 | 7.55N | 151 12.14E | 44 | 43N | 151 26E | 616567 | 24641 | 161 1 | 38 35 | 14 44 | 0 10 | 0 10 | ND | ND | 2.818 | | | |
| 61 | 2 14 47.712 | 2220 | 44 | 59.03N | 151 16.27E | 44 | 34N | 151 30E | 616254 | 24642 | 161 4 | 38 44 | 14 44 | 0 11 | 0 11 | ND | ND | 2.830 | | | |
| 62 | 2 14 49.946 | 2235 | 44 | 50.46N | 151 20.40E | 44 | 26N | 151 34E | 615940 | 24642 | 161 8 | 38 52 | 14 44 | 0 11 | 0 11 | ND | ND | 2.811 | | | |

| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|-------------|-------|-----------|------------|---------|---------|----------|-------|---------|-------|---------|---------|---------|-------|
| HR MI | SEC | MILS | DEG MIN | DEG LONG | MIN DEG | DEG MIN | FEET | F/S | MI DEG | MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 1 | 3 38 49.668 | 0 | 66 8.23N | 108 38.88E | 65 45N | 109 26E | 687068 | 24475 | 141 50 | 16 13 | 14 55 | -0 5 | ND | 1.813 |
| 2 | 3 38 53.125 | 3465 | 65 57.27N | 108 59.94E | 65 34N | 109 46E | 686188 | 24477 | 142 11 | 16 26 | 14 56 | -0 5 | ND | 1.813 |
| 3 | 3 38 55.976 | 2850 | 65 48.21N | 109 17.04E | 65 25N | 110 2E | 685472 | 24479 | 142 28 | 16 37 | 14 56 | -0 5 | ND | 2.205 |
| 4 | 3 38 58.665 | 2690 | 65 39.63N | 109 32.98E | 65 16N | 110 18E | 684799 | 24481 | 142 44 | 16 47 | 14 57 | -0 4 | ND | 2.336 |
| 5 | 3 39 1.275 | 2610 | 65 31.28N | 109 48.28E | 65 7N | 110 33E | 684147 | 24482 | 142 59 | 16 57 | 14 58 | -0 4 | ND | 2.407 |
| 6 | 3 39 3.847 | 2571 | 65 23.02N | 110 17.85E | 64 59N | 110 47E | 682878 | 24485 | 143 14 | 17 7 | 14 58 | -0 4 | ND | 2.444 |
| 7 | 3 39 6.405 | 2559 | 65 14.78N | 110 32.29E | 64 43N | 111 1E | 682239 | 24487 | 143 42 | 17 27 | 14 59 | -0 2 | ND | 2.469 |
| 8 | 3 39 8.950 | 2545 | 65 6.55N | 110 46.49E | 64 34N | 111 29E | 681613 | 24488 | 143 56 | 17 37 | 14 60 | -0 1 | ND | 2.482 |
| 9 | 3 39 11.402 | 2531 | 64 58.34N | 110 7.89E | 64 26N | 111 43E | 680991 | 24489 | 144 10 | 17 47 | 15 1 | -0 0 | ND | 2.493 |
| 10 | 3 39 14.002 | 2520 | 64 50.15N | 111 0.49E | 64 18N | 111 56E | 680371 | 24491 | 144 24 | 17 56 | 15 2 | 0 1 | ND | 2.494 |
| 11 | 3 39 16.521 | 2519 | 64 41.93N | 111 14.33E | 64 10N | 112 10E | 679754 | 24492 | 144 37 | 18 6 | 15 2 | 0 0 | ND | 2.503 |
| 12 | 3 39 19.030 | 2510 | 64 33.72N | 111 27.97E | 64 1N | 112 23E | 679142 | 24494 | 144 51 | 18 16 | 15 3 | 0 0 | ND | 2.513 |
| 13 | 3 39 21.530 | 2500 | 64 25.52N | 111 41.43E | 64 1N | 112 36E | 678531 | 24495 | 145 4 | 18 25 | 15 4 | 0 0 | ND | 2.513 |
| 14 | 3 39 24.030 | 2500 | 64 17.30N | 111 54.74E | 63 55N | 112 49E | 677923 | 24497 | 145 17 | 18 35 | 15 4 | 0 0 | ND | 2.518 |
| 15 | 3 39 26.525 | 2495 | 64 9.86N | 112 7.89E | 63 45N | 112 49E | 677316 | 24498 | 145 29 | 18 44 | 15 5 | 0 0 | ND | 2.518 |
| 16 | 3 39 29.021 | 2495 | 64 0.81N | 112 20.91E | 63 37N | 113 1E | 676712 | 24499 | 145 42 | 18 54 | 15 6 | 0 0 | ND | 2.523 |
| 17 | 3 39 31.511 | 2490 | 63 52.55N | 112 33.76E | 63 28N | 113 14E | 676112 | 24501 | 145 55 | 19 4 | 15 6 | 0 0 | ND | 2.534 |
| 18 | 3 39 33.990 | 2480 | 63 44.31N | 112 46.44E | 63 20N | 113 26E | 675513 | 24502 | 146 7 | 19 13 | 15 7 | 0 0 | ND | 2.534 |
| 19 | 3 39 36.471 | 2480 | 63 36.04N | 112 58.99E | 63 12N | 113 39E | 674916 | 24504 | 146 19 | 19 23 | 15 7 | 0 0 | ND | 2.534 |
| 20 | 3 39 38.950 | 2480 | 63 27.76N | 113 11.40E | 63 5N | 113 51E | 674322 | 24505 | 146 31 | 19 32 | 15 7 | 0 0 | ND | 2.539 |
| 21 | 3 39 41.426 | 2475 | 63 19.47N | 113 23.68E | 62 47N | 114 15E | 673731 | 24506 | 146 43 | 19 42 | 15 8 | 0 0 | ND | 2.544 |
| 22 | 3 39 43.896 | 2470 | 63 11.17N | 113 35.80E | 62 47N | 114 26E | 673142 | 24508 | 146 55 | 19 51 | 15 8 | 0 0 | ND | 2.549 |
| 23 | 3 39 46.360 | 2465 | 63 2.88N | 113 47.78E | 62 39N | 114 38E | 672554 | 24509 | 147 7 | 20 1 | 15 8 | 0 0 | ND | 2.549 |
| 24 | 3 39 48.825 | 2465 | 62 54.56N | 113 59.64E | 62 30N | 114 49E | 671969 | 24510 | 147 18 | 20 10 | 15 8 | 0 0 | ND | 2.549 |
| 25 | 3 39 51.290 | 2465 | 62 46.23N | 114 11.39E | 62 22N | 114 49E | 671386 | 24512 | 147 30 | 20 20 | 15 8 | 0 0 | ND | 2.554 |
| 26 | 3 39 53.750 | 2460 | 62 37.90N | 114 22.99E | 62 14N | 115 1E | 670805 | 24513 | 147 41 | 20 29 | 15 8 | 0 0 | ND | 2.559 |
| 27 | 3 39 56.205 | 2455 | 62 29.56N | 114 34.46E | 62 5N | 115 12E | 670229 | 24515 | 147 52 | 20 38 | 15 8 | 0 0 | ND | 2.569 |
| 28 | 3 39 58.651 | 2446 | 62 21.24N | 114 45.78E | 61 57N | 115 23E | 669652 | 24516 | 148 3 | 20 48 | 15 8 | 0 0 | ND | 2.569 |
| 29 | 3 40 1.105 | 2454 | 62 12.87N | 114 57.03E | 61 49N | 115 34E | 669078 | 24517 | 148 14 | 20 57 | 15 8 | 0 0 | ND | 2.570 |
| 30 | 3 40 3.551 | 2445 | 62 4.51N | 115 7.12E | 61 40N | 115 45E | 668507 | 24519 | 148 25 | 21 7 | 15 8 | 0 0 | ND | 2.570 |
| 31 | 3 40 5.995 | 2445 | 61 56.14N | 115 19.11E | 61 32N | 115 56E | 667939 | 24520 | 148 35 | 21 16 | 15 8 | 0 0 | ND | 2.579 |
| 32 | 3 40 8.431 | 2435 | 61 47.79N | 115 29.95E | 61 23N | 116 6E | 667372 | 24521 | 148 46 | 21 25 | 15 8 | 0 0 | ND | 2.579 |
| 33 | 3 40 10.866 | 2436 | 61 39.41N | 115 40.69E | 61 15N | 116 17E | 666807 | 24523 | 148 56 | 21 35 | 15 8 | 0 0 | ND | 2.576 |
| 34 | 3 40 13.306 | 2439 | 61 31.01N | 115 51.35E | 61 7N | 116 27E | 666245 | 24524 | 149 7 | 21 44 | 15 7 | 0 0 | ND | 2.586 |
| 35 | 3 40 15.735 | 2430 | 61 22.63N | 116 1.86E | 60 58N | 116 37E | 665665 | 24525 | 149 17 | 21 53 | 15 8 | 0 0 | ND | 2.586 |
| 36 | 3 40 18.165 | 2430 | 61 14.23N | 116 12.28E | 60 50N | 116 47E | 665127 | 24526 | 149 27 | 22 3 | 15 8 | 0 0 | ND | 2.591 |
| 37 | 3 40 20.591 | 2425 | 61 5.83N | 116 22.58E | 60 41N | 116 58E | 664570 | 24528 | 149 37 | 22 12 | 15 8 | 0 0 | ND | 2.596 |
| 38 | 3 40 23.021 | 2430 | 60 48.98N | 116 32.80E | 60 33N | 117 7E | 664017 | 24529 | 149 47 | 22 21 | 15 8 | 0 0 | ND | 2.596 |
| 39 | 3 40 25.440 | 2420 | 60 40.58N | 116 42.89E | 60 25N | 117 17E | 663467 | 24530 | 149 57 | 22 31 | 15 8 | 0 0 | ND | 2.602 |
| 40 | 3 40 27.855 | 2415 | 60 32.15N | 117 2.74E | 60 16N | 117 27E | 662918 | 24532 | 150 6 | 22 40 | 15 7 | 0 0 | ND | 2.602 |
| 41 | 3 40 30.271 | 2415 | 60 23.71N | 117 12.54E | 59 8N | 117 37E | 661826 | 24534 | 150 16 | 22 49 | 15 7 | 0 0 | ND | 2.607 |
| 42 | 3 40 32.686 | 2415 | 60 15.28N | 117 22.22E | 59 51N | 117 46E | 661283 | 24535 | 150 25 | 22 58 | 15 7 | 0 0 | ND | 2.611 |
| 43 | 3 40 35.096 | 2410 | 60 6.85N | 117 31.80E | 59 43N | 118 5E | 661861 | 24635 | 160 29 | 27 27 | 15 6 | 0 17 | ND | 0.020 |
| 44 | 3 40 37.502 | 2406 | 46 17.12N | 127 56.69E | 45 52N | 128 12E | | | | | | | | |
| 45 | 3 44 22.241 | 24740 | | | | | | | | | | | | |

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TOP SECRET SPECIAL HANDLING REQUIRED

HANDLE VIA TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65

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| FRM | Z TIME | HR MI SEC | DTIM | DEG MIN | DEG LONG | DEG MIN | DEG LONG | ALTITUDE | VELOC | DEG MI | DEG SUNV | PITCH | ROLL | YAW | SCAN |
|-----|--------|-----------|------|-----------|------------|---------|----------|----------|--------|--------|----------|-------|------|-------|------|
| | | | MILS | LAT | LONG | MIN | LONG | FEET | F/S | MI | MI | MIN | MIN | MIN | RATE |
| 46 | 3 44 | 25.367 | 3126 | 46 5.18N | 128 2.77E | 18E | 618400 | 24636 | 160 35 | 37 39 | 15 9 | 0 17 | ND | 2.010 | |
| 47 | 3 44 | 27.921 | 2553 | 45 55.41N | 128 7.70E | 23E | 618027 | 24637 | 160 39 | 37 49 | 15 13 | 0 16 | ND | 2.461 | |
| 48 | 3 44 | 30.320 | 2400 | 45 46.23N | 128 12.30E | 28E | 617678 | 24638 | 160 43 | 37 58 | 15 15 | 0 16 | ND | 2.618 | |
| 49 | 3 44 | 32.646 | 2325 | 45 37.33N | 128 16.73E | 32E | 617342 | 24639 | 160 47 | 38 7 | 15 17 | 0 16 | ND | 2.702 | |
| 50 | 3 44 | 34.936 | 2290 | 45 28.56N | 128 21.07E | 36E | 617014 | 24640 | 160 51 | 38 16 | 15 19 | 0 16 | ND | 2.744 | |
| 51 | 3 44 | 37.201 | 2266 | 45 19.88N | 128 25.34E | 40E | 616691 | 24640 | 160 55 | 38 24 | 15 19 | 0 16 | ND | 2.773 | |
| 52 | 3 44 | 39.466 | 2264 | 45 11.20N | 128 29.59E | 45E | 616370 | 24641 | 160 59 | 38 33 | 15 20 | 0 16 | ND | 2.775 | |
| 53 | 3 44 | 41.711 | 2245 | 45 2.59N | 128 33.77E | 49E | 616054 | 24642 | 161 3 | 38 41 | 15 21 | 0 16 | ND | 2.799 | |
| 54 | 3 44 | 43.961 | 2250 | 44 53.96N | 128 37.94E | 44E | 615739 | 24643 | 161 7 | 38 50 | 15 21 | 0 17 | ND | 2.793 | |
| 55 | 3 44 | 46.200 | 2240 | 44 45.37N | 128 42.06E | 44E | 615429 | 24643 | 161 10 | 38 58 | 15 21 | 0 17 | ND | 2.805 | |
| 56 | 3 44 | 48.436 | 2235 | 44 36.79N | 128 46.16E | 44E | 615121 | 24644 | 161 14 | 39 7 | 15 21 | 0 17 | ND | 2.811 | |
| 57 | 3 44 | 50.671 | 2235 | 44 28.20N | 128 50.23E | 44E | 614814 | 24645 | 161 18 | 39 15 | 15 20 | 0 17 | ND | 2.811 | |
| 58 | 3 44 | 52.905 | 2235 | 44 19.62N | 128 54.28E | 43E | 614510 | 24646 | 161 21 | 39 24 | 15 19 | 0 18 | ND | 2.811 | |
| 59 | 3 44 | 55.141 | 2235 | 44 11.02N | 128 58.31E | 43E | 614208 | 24646 | 161 25 | 39 32 | 15 18 | 0 18 | ND | 2.811 | |
| 60 | 3 44 | 57.370 | 2230 | 44 2.45N | 129 6.27E | 43E | 613909 | 24647 | 161 28 | 39 40 | 15 16 | 0 18 | ND | 2.818 | |
| 61 | 3 45 | 59.596 | 2225 | 43 45.32N | 129 10.21E | 43E | 613613 | 24648 | 161 32 | 39 49 | 15 13 | 0 18 | ND | 2.824 | |
| 62 | 3 45 | 1.820 | 2225 | 43 36.76N | 129 14.14E | 43E | 613318 | 24648 | 161 35 | 39 57 | 15 12 | 0 18 | ND | 2.824 | |
| 63 | 3 45 | 4.046 | 2225 | 43 28.17N | 129 18.05E | 43E | 613026 | 24649 | 161 39 | 40 5 | 15 11 | 0 18 | ND | 2.824 | |
| 64 | 3 45 | 6.275 | 2230 | 43 19.62N | 129 21.92E | 42E | 612735 | 24650 | 161 42 | 40 14 | 15 10 | 0 18 | ND | 2.818 | |
| 65 | 3 45 | 8.495 | 2220 | 43 11.06N | 129 25.77E | 42E | 612447 | 24650 | 161 46 | 40 22 | 15 9 | 0 18 | ND | 2.830 | |
| 66 | 3 45 | 10.716 | 2220 | 43 2.50N | 129 29.60E | 42E | 612162 | 24651 | 161 49 | 40 30 | 15 9 | 0 18 | ND | 2.830 | |
| 67 | 3 45 | 12.936 | 2220 | 42 53.93N | 129 33.41E | 42E | 611878 | 24652 | 161 52 | 40 39 | 15 8 | 0 18 | ND | 2.830 | |
| 68 | 3 45 | 15.155 | 2220 | 42 45.38N | 129 37.20E | 42E | 611597 | 24652 | 161 56 | 40 47 | 15 7 | 0 19 | ND | 2.830 | |
| 69 | 3 45 | 17.371 | 2216 | 42 36.83N | 129 40.96E | 42E | 611319 | 24653 | 161 59 | 40 55 | 15 6 | 0 19 | ND | 2.835 | |
| 70 | 3 45 | 19.586 | 2214 | 42 28.26N | 129 44.71E | 42E | 611042 | 24654 | 162 2 | 41 4 | 15 6 | 0 18 | ND | 2.838 | |
| 71 | 3 45 | 21.806 | 2220 | 42 19.68N | 129 48.44E | 41E | 610768 | 24654 | 162 6 | 41 12 | 15 6 | 0 18 | ND | 2.830 | |
| 72 | 3 45 | 24.025 | 2220 | 42 11.13N | 129 52.15E | 41E | 610495 | 24655 | 162 9 | 41 20 | 15 5 | 0 18 | ND | 2.830 | |
| 73 | 3 45 | 26.240 | 2215 | 42 2.58N | 129 55.82E | 41E | 610224 | 24656 | 162 12 | 41 29 | 15 5 | 0 18 | ND | 2.837 | |
| 74 | 3 45 | 28.450 | 2210 | 41 54.04N | 129 59.48E | 41E | 609957 | 24656 | 162 15 | 41 37 | 15 5 | 0 18 | ND | 2.843 | |
| 75 | 3 45 | 30.660 | 2210 | 41 45.47N | 130 3.13E | 41E | 609692 | 24657 | 162 19 | 41 45 | 15 4 | 0 18 | ND | 2.843 | |
| 76 | 3 45 | 32.875 | 2215 | | | 41E | 609428 | 24658 | 162 22 | 41 54 | 15 4 | 0 19 | ND | 2.837 | |

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TOP SECRET

HANDLE VIA

| FRM | HR | MI | SEC | DTM | MILLS | DEG | LAT | DEG | MIN | LONG | DEG | LAT | DEG | MIN | LONG | DEG | MIN | ALTITUDE | VELOC | F/S | DEG | MI | SUN/ | DEG | MI | PITCH | DEG | MIN | ROLL | DEG | MIN | DEG | MIN | YAW | DEG | MIN | SCAN | RATE |
|-----|----|----|--------|------|-------|--------|-----|--------|-----|------|-----|-----|--------|-------|------|-----|-----|----------|-------|-----|-----|----|------|-----|----|-------|-----|-----|-------|-----|-----|-----|-----|-----|-----|-----|------|------|
| 1 | 5 | 8 | 5.970 | 0 | 68 | 6.29N | 81 | 48.82E | 67 | 45N | 82 | 34E | 696300 | 24454 | 137 | 35 | 13 | 41 | -0 | 2 | ND | 14 | 11 | 14 | 11 | -0 | 2 | ND | 1.793 | | | | | | | | | |
| 2 | 5 | 8 | 9.475 | 3505 | 67 | 55.88N | 82 | 6.02E | 67 | 35N | 82 | 58E | 695391 | 24456 | 138 | 0 | 13 | 54 | 0 | 1 | ND | 14 | 11 | 14 | 11 | 0 | 1 | ND | 2.159 | | | | | | | | | |
| 3 | 5 | 8 | 12.385 | 2910 | 67 | 47.19N | 82 | 26.65E | 67 | 26N | 83 | 17E | 694639 | 24458 | 138 | 21 | 14 | 5 | 0 | 1 | ND | 14 | 12 | 14 | 12 | 0 | 1 | ND | 2.297 | | | | | | | | | |
| 4 | 5 | 8 | 15.119 | 2735 | 67 | 38.97N | 82 | 45.73E | 67 | 18N | 83 | 37E | 693934 | 24459 | 138 | 40 | 14 | 16 | 0 | 2 | ND | 14 | 12 | 14 | 12 | 0 | 2 | ND | 2.358 | | | | | | | | | |
| 5 | 5 | 8 | 17.784 | 2665 | 67 | 30.93N | 83 | 4.23E | 67 | 10N | 83 | 55E | 693248 | 24461 | 138 | 58 | 14 | 26 | 0 | 4 | ND | 14 | 13 | 14 | 13 | 0 | 4 | ND | 2.389 | | | | | | | | | |
| 6 | 5 | 8 | 20.414 | 2630 | 67 | 22.95N | 83 | 22.21E | 67 | 1N | 84 | 12E | 692573 | 24462 | 139 | 16 | 14 | 36 | 0 | 6 | ND | 14 | 13 | 14 | 13 | 0 | 6 | ND | 2.389 | | | | | | | | | |
| 7 | 5 | 8 | 23.025 | 2611 | 67 | 15.00N | 83 | 39.87E | 66 | 53N | 84 | 30E | 691983 | 24464 | 139 | 33 | 14 | 46 | 0 | 8 | ND | 14 | 14 | 14 | 14 | 0 | 8 | ND | 2.406 | | | | | | | | | |
| 8 | 5 | 8 | 25.630 | 2604 | 67 | 7.03N | 83 | 57.28E | 66 | 45N | 84 | 47E | 691238 | 24466 | 139 | 51 | 14 | 56 | 0 | 10 | ND | 14 | 14 | 14 | 14 | 0 | 10 | ND | 2.413 | | | | | | | | | |
| 9 | 5 | 8 | 28.220 | 2590 | 66 | 59.07N | 84 | 14.40E | 66 | 37N | 85 | 3E | 690577 | 24467 | 140 | 0 | 14 | 5 | 0 | 12 | ND | 14 | 14 | 14 | 14 | 0 | 12 | ND | 2.426 | | | | | | | | | |
| 10 | 5 | 8 | 30.805 | 2585 | 66 | 51.09N | 84 | 31.29E | 66 | 29N | 85 | 20E | 689919 | 24469 | 140 | 2 | 15 | 16 | 0 | 13 | ND | 14 | 14 | 14 | 14 | 0 | 13 | ND | 2.431 | | | | | | | | | |
| 11 | 5 | 8 | 33.374 | 2570 | 66 | 43.13N | 84 | 47.90E | 66 | 22N | 85 | 36E | 689266 | 24470 | 140 | 41 | 15 | 26 | 0 | 16 | ND | 14 | 14 | 14 | 14 | 0 | 16 | ND | 2.445 | | | | | | | | | |
| 12 | 5 | 8 | 35.944 | 2570 | 66 | 35.14N | 85 | 4.32E | 66 | 14N | 85 | 52E | 688615 | 24472 | 140 | 57 | 15 | 36 | 0 | 19 | ND | 14 | 14 | 14 | 14 | 0 | 19 | ND | 2.445 | | | | | | | | | |
| 13 | 5 | 8 | 38.510 | 2565 | 66 | 27.13N | 85 | 20.54E | 66 | 5N | 86 | 8E | 687966 | 24473 | 141 | 13 | 15 | 46 | 0 | 21 | ND | 14 | 14 | 14 | 14 | 0 | 21 | ND | 2.450 | | | | | | | | | |
| 14 | 5 | 8 | 41.064 | 2555 | 66 | 19.12N | 85 | 36.51E | 65 | 57N | 86 | 23E | 687321 | 24475 | 141 | 29 | 15 | 56 | 0 | 23 | ND | 14 | 14 | 14 | 14 | 0 | 23 | ND | 2.459 | | | | | | | | | |
| 15 | 5 | 8 | 43.619 | 2555 | 66 | 11.08N | 85 | 52.30E | 65 | 49N | 86 | 39E | 686678 | 24476 | 141 | 44 | 16 | 6 | 0 | 25 | ND | 14 | 14 | 14 | 14 | 0 | 25 | ND | 2.464 | | | | | | | | | |
| 16 | 5 | 8 | 46.170 | 2550 | 66 | 3.03N | 86 | 7.90E | 65 | 41N | 86 | 54E | 686037 | 24478 | 142 | 0 | 16 | 15 | 0 | 27 | ND | 14 | 14 | 14 | 14 | 0 | 27 | ND | 2.469 | | | | | | | | | |
| 17 | 5 | 8 | 48.715 | 2545 | 65 | 54.96N | 86 | 23.30E | 65 | 33N | 87 | 9E | 685399 | 24479 | 142 | 15 | 16 | 25 | 0 | 29 | ND | 14 | 14 | 14 | 14 | 0 | 29 | ND | 2.479 | | | | | | | | | |
| 18 | 5 | 8 | 51.256 | 2541 | 65 | 46.88N | 86 | 38.50E | 65 | 25N | 87 | 24E | 684765 | 24481 | 142 | 30 | 16 | 35 | 0 | 31 | ND | 14 | 14 | 14 | 14 | 0 | 31 | ND | 2.473 | | | | | | | | | |
| 19 | 5 | 8 | 53.795 | 2539 | 65 | 38.78N | 86 | 53.53E | 65 | 17N | 87 | 38E | 684131 | 24482 | 142 | 45 | 16 | 45 | 0 | 32 | ND | 14 | 14 | 14 | 14 | 0 | 32 | ND | 2.475 | | | | | | | | | |
| 20 | 5 | 8 | 56.329 | 2535 | 65 | 30.67N | 87 | 8.37E | 65 | 9N | 87 | 53E | 683500 | 24483 | 143 | 0 | 16 | 55 | 0 | 32 | ND | 14 | 14 | 14 | 14 | 0 | 32 | ND | 2.479 | | | | | | | | | |
| 21 | 5 | 8 | 58.864 | 2535 | 65 | 22.52N | 87 | 23.06E | 65 | 1N | 88 | 7E | 682870 | 24485 | 143 | 14 | 17 | 4 | 0 | 33 | ND | 14 | 14 | 14 | 14 | 0 | 33 | ND | 2.479 | | | | | | | | | |
| 22 | 5 | 9 | 1.390 | 2525 | 65 | 14.38N | 87 | 37.53E | 64 | 52N | 88 | 21E | 682245 | 24486 | 143 | 28 | 17 | 14 | 0 | 34 | ND | 14 | 14 | 14 | 14 | 0 | 34 | ND | 2.488 | | | | | | | | | |
| 23 | 5 | 9 | 3.909 | 2520 | 65 | 6.24N | 87 | 51.02E | 64 | 44N | 88 | 49E | 681002 | 24489 | 143 | 57 | 17 | 24 | 0 | 35 | ND | 14 | 14 | 14 | 14 | 0 | 35 | ND | 2.493 | | | | | | | | | |
| 24 | 5 | 9 | 6.425 | 2515 | 64 | 58.08N | 88 | 5.93E | 64 | 36N | 88 | 35E | 681622 | 24488 | 143 | 43 | 17 | 34 | 0 | 36 | ND | 14 | 14 | 14 | 14 | 0 | 36 | ND | 2.498 | | | | | | | | | |
| 25 | 5 | 9 | 8.939 | 2515 | 64 | 49.90N | 88 | 19.09E | 64 | 28N | 89 | 2E | 680384 | 24491 | 144 | 10 | 17 | 43 | 0 | 37 | ND | 14 | 14 | 14 | 14 | 0 | 37 | ND | 2.498 | | | | | | | | | |
| 26 | 5 | 9 | 11.454 | 2515 | 64 | 41.70N | 88 | 33.71E | 64 | 20N | 89 | 16E | 679757 | 24492 | 144 | 24 | 17 | 53 | 0 | 38 | ND | 14 | 14 | 14 | 14 | 0 | 38 | ND | 2.498 | | | | | | | | | |
| 27 | 5 | 9 | 13.955 | 2504 | 64 | 33.52N | 88 | 47.38E | 64 | 11N | 89 | 29E | 679155 | 24494 | 144 | 37 | 18 | 3 | 0 | 38 | ND | 14 | 14 | 14 | 14 | 0 | 38 | ND | 2.512 | | | | | | | | | |
| 28 | 5 | 9 | 16.459 | 2504 | 64 | 25.30N | 89 | 0.78E | 64 | 3N | 89 | 42E | 678543 | 24495 | 144 | 51 | 18 | 12 | 0 | 38 | ND | 14 | 14 | 14 | 14 | 0 | 38 | ND | 2.509 | | | | | | | | | |
| 29 | 5 | 9 | 18.960 | 2501 | 64 | 17.08N | 89 | 14.09E | 63 | 55N | 89 | 55E | 677934 | 24496 | 145 | 4 | 18 | 22 | 0 | 39 | ND | 14 | 14 | 14 | 14 | 0 | 39 | ND | 2.512 | | | | | | | | | |
| 30 | 5 | 9 | 21.460 | 2500 | 64 | 8.83N | 89 | 27.27E | 63 | 47N | 90 | 8E | 677327 | 24498 | 145 | 17 | 18 | 32 | 0 | 39 | ND | 14 | 14 | 14 | 14 | 0 | 39 | ND | 2.513 | | | | | | | | | |
| 31 | 5 | 9 | 23.959 | 2499 | 64 | 0.56N | 89 | 40.30E | 63 | 38N | 90 | 20E | 676721 | 24499 | 145 | 30 | 18 | 41 | 0 | 38 | ND | 14 | 14 | 14 | 14 | 0 | 38 | ND | 2.514 | | | | | | | | | |
| 32 | 5 | 9 | 26.449 | 2490 | 63 | 52.30N | 89 | 53.16E | 63 | 30N | 90 | 33E | 676119 | 24501 | 145 | 42 | 18 | 51 | 0 | 38 | ND | 14 | 14 | 14 | 14 | 0 | 38 | ND | 2.523 | | | | | | | | | |
| 33 | 5 | 9 | 28.939 | 2485 | 63 | 44.02N | 90 | 5.88E | 63 | 22N | 90 | 45E | 675518 | 24502 | 145 | 55 | 19 | 1 | 0 | 39 | ND | 14 | 14 | 14 | 14 | 0 | 39 | ND | 2.523 | | | | | | | | | |
| 34 | 5 | 9 | 31.425 | 2480 | 63 | 37.45N | 90 | 18.45E | 63 | 13N | 90 | 58E | 674921 | 24503 | 146 | 7 | 19 | 10 | 0 | 39 | ND | 14 | 14 | 14 | 14 | 0 | 39 | ND | 2.528 | | | | | | | | | |
| 35 | 5 | 9 | 33.904 | 2480 | 63 | 27.45N | 90 | 30.87E | 63 | 5N | 91 | 10E | 674326 | 24505 | 146 | 19 | 19 | 20 | 0 | 39 | ND | 14 | 14 | 14 | 14 | 0 | 39 | ND | 2.534 | | | | | | | | | |
| 36 | 5 | 9 | 36.380 | 2475 | 63 | 19.16N | 90 | 43.14E | 62 | 57N | 91 | 21E | 673733 | 24506 | 146 | 31 | 19 | 29 | 0 | 38 | ND | 14 | 14 | 14 | 14 | 0 | 38 | ND | 2.539 | | | | | | | | | |
| 37 | 5 | 9 | 38.854 | 2475 | 63 | 10.05N | 90 | 55.28E | 62 | 48N | 91 | 33E | 673143 | 24508 | 146 | 43 | 19 | 39 | 0 | 38 | ND | 14 | 14 | 14 | 14 | 0 | 38 | ND | 2.539 | | | | | | | | | |
| 38 | 5 | 9 | 41.324 | 2470 | 63 | 2.54N | 91 | 7.28E | 62 | 40N | 91 | 45E | 672555 | 24509 | 146 | 55 | 19 | 48 | 0 | 38 | ND | 14 | 14 | 14 | 14 | 0 | 38 | ND | 2.544 | | | | | | | | | |
| 39 | 5 | 9 | 43.795 | 2470 | 62 | 54.21N | 91 | 19.17E | 62 | 31N | 91 | 56E | 671968 | 24510 | 147 | 7 | 19 | 58 | 0 | 38 | ND | 14 | 14 | 14 | 14 | 0 | 38 | ND | 2.544 | | | | | | | | | |
| 40 | 5 | 9 | 46.265 | 2470 | 62 | 45.06N | 91 | 30.94E | 62 | 23N | 92 | 8E | 671383 | 24512 | 147 | 18 | 20 | 8 | 0 | 38 | ND | 14 | 14 | 14 | 14 | 0 | 38 | ND | 2.553 | | | | | | | | | |
| 41 | 5 | 9 | 48.725 | 2460 | 62 | 37.52N | 91 | 42.54E | 62 | 15N | 92 | 30E | 670823 | 24513 | 147 | 30 | 20 | 17 | 0 | 37 | ND | 14 | 14 | 14 | 14 | 0 | 37 | ND | 2.553 | | | | | | | | | |
| 42 | 5 | 9 | 51.186 | 2461 | 62 | 29.16N | 91 | 54.03E | 62 | 6N | 92 | 41E | 670223 | 24514 | 147 | 41 | 20 | 27 | 0 | 37 | ND | 14 | 14 | 14 | 14 | 0 | 37 | ND | 2.560 | | | | | | | | | |
| 43 | 5 | 9 | 53.640 | 2454 | 62 | 20.81N | 92 | 5.38E | 61 | 58N | 92 | 41E | 669646 | 24516 | 147 | 52 | 20 | 36 | 0 | 36 | ND | 14 | 14 | 14 | 14 | 0 | 36 | ND | 2.554 | | | | | | | | | |
| 44 | 5 | 9 | 56.100 | 2460 | 62 | 12.42N | 92 | 16.65E | 61 | 49N | 92 | 52E | 669070 | 24517 | 148 | 3 | 20 | 46 | 0 | 36 | ND | 14 | 14 | 14 | 14 | 0 | 36 | ND | 2.554 | | | | | | | | | |
| 45 | 5 | 9 | 58.550 | 2450 | 62 | 4.05N | 92 | 27.77E | 61 | 41N | 93 | 3E | 668498 | 24518 | 148 | 14 | 20 | 55 | 0 | 36 | ND | 14 | 14 | 14 | 14 | 0 | 36 | ND | 2.565 | | | | | | | | | |

TOP SECRET
CREATED BY: W. J. R. / J. R. / J. R.

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84868-64

PASS 850 FWD 3MAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 18MAY65

PAGE 7

| FRM | 2 TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN |
|-------|--------------|------|-----------|------------|--------|---------|----------|-------|-----|----|-----|----|---------|---------|---------|-------|
| HR MI | SEC | MILS | LAT | DEG MIN | LAT | DEG MIN | FEET | F/S | DEG | MI | DEG | MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 46 | 5 10 0.999 | 2450 | 61 55.66N | 92 38.77E | 61 32N | 93 14E | 667927 | 24520 | 148 | 25 | 21 | 5 | 14 31 | 0 35 | ND | 2.565 |
| 47 | 5 10 3.449 | 2450 | 61 47.25N | 92 49.67E | 61 24N | 93 24E | 667359 | 24521 | 148 | 36 | 21 | 14 | 14 31 | 0 35 | ND | 2.565 |
| 48 | 5 10 5.895 | 2445 | 61 38.85N | 93 0.45E | 61 15N | 93 35E | 666792 | 24522 | 148 | 46 | 21 | 23 | 14 32 | 0 34 | ND | 2.570 |
| 49 | 5 10 8.334 | 2440 | 61 30.44N | 93 11.10E | 61 7N | 93 45E | 666228 | 24524 | 148 | 57 | 21 | 33 | 14 32 | 0 33 | ND | 2.575 |
| 50 | 5 10 10.774 | 2440 | 61 22.02N | 93 32.11E | 60 59N | 93 55E | 665666 | 24525 | 149 | 7 | 21 | 42 | 14 33 | 0 32 | ND | 2.575 |
| 51 | 5 10 13.215 | 2440 | 61 13.58N | 93 52.64E | 60 59N | 94 5E | 665106 | 24526 | 149 | 17 | 21 | 52 | 14 33 | 0 31 | ND | 2.575 |
| 52 | 5 10 15.649 | 2435 | 61 5.15N | 93 42.44E | 60 42N | 94 15E | 664548 | 24528 | 149 | 27 | 22 | 11 | 14 34 | 0 30 | ND | 2.580 |
| 53 | 5 10 18.075 | 2426 | 60 56.73N | 93 52.64E | 60 33N | 94 25E | 663994 | 24529 | 149 | 37 | 22 | 11 | 14 35 | 0 29 | ND | 2.590 |
| 54 | 5 10 20.505 | 2429 | 60 48.29N | 94 2.76E | 60 25N | 94 35E | 663441 | 24530 | 149 | 47 | 22 | 20 | 14 35 | 0 28 | ND | 2.587 |
| 55 | 5 10 22.930 | 2425 | 60 39.84N | 94 12.77E | 60 16N | 94 45E | 662891 | 24531 | 149 | 57 | 22 | 29 | 14 36 | 0 27 | ND | 2.591 |
| 56 | 5 10 25.354 | 2425 | 60 31.38N | 94 22.69E | 60 8N | 94 54E | 662341 | 24533 | 150 | 7 | 22 | 39 | 14 36 | 0 26 | ND | 2.591 |
| 57 | 5 10 27.774 | 2420 | 60 22.93N | 94 32.49E | 59 59N | 94 4E | 661795 | 24534 | 150 | 16 | 22 | 48 | 14 37 | 0 26 | ND | 2.596 |
| 58 | 5 10 30.189 | 2415 | 60 14.47N | 94 42.19E | 59 51N | 13E | 661252 | 24535 | 150 | 26 | 22 | 57 | 14 37 | 0 24 | ND | 2.602 |
| 59 | 5 10 32.609 | 2420 | 60 5.99N | 94 51.82E | 59 42N | 22E | 660709 | 24537 | 150 | 35 | 23 | 7 | 14 38 | 0 23 | ND | 2.596 |
| 60 | 5 10 35.020 | 2410 | 59 57.53N | 95 1.32E | 59 33N | 31E | 660170 | 24538 | 150 | 45 | 23 | 16 | 14 38 | 0 22 | ND | 2.607 |
| 61 | 5 10 37.4365 | 3036 | 32 48.32N | 110 48.97E | 32 28N | 110 47E | 597176 | 24687 | 165 | 4 | 50 | 30 | 14 37 | 0 12 | ND | 2.615 |
| 62 | 5 10 39.854 | 2509 | 32 30.45N | 110 44.07E | 32 16N | 110 51E | 597045 | 24687 | 165 | 7 | 50 | 40 | 14 36 | 0 11 | ND | 2.604 |
| 63 | 5 10 42.270 | 2345 | 32 21.22N | 110 46.96E | 31 57N | 110 54E | 596926 | 24688 | 165 | 9 | 50 | 48 | 14 36 | 0 11 | ND | 2.679 |
| 64 | 5 10 44.687 | 2280 | 32 12.25N | 110 49.76E | 31 48N | 110 57E | 596812 | 24688 | 165 | 11 | 50 | 56 | 14 36 | 0 10 | ND | 2.756 |
| 65 | 5 10 47.104 | 2245 | 32 3.41N | 110 52.50E | 31 39N | 111 2E | 596702 | 24688 | 165 | 13 | 51 | 4 | 14 34 | 0 10 | ND | 2.799 |
| 66 | 5 10 49.521 | 2231 | 31 54.67N | 110 55.22E | 31 30N | 111 5E | 596596 | 24688 | 165 | 15 | 51 | 12 | 14 34 | 0 9 | ND | 2.816 |
| 67 | 5 10 51.938 | 2224 | 31 45.67N | 110 57.92E | 31 22N | 111 7E | 596493 | 24689 | 165 | 17 | 51 | 20 | 14 33 | 0 9 | ND | 2.825 |
| 68 | 5 10 54.355 | 2215 | 31 37.12N | 111 0.60E | 31 13N | 111 10E | 596392 | 24689 | 165 | 19 | 51 | 28 | 14 32 | 0 9 | ND | 2.829 |
| 69 | 5 10 56.772 | 2214 | 31 28.48N | 111 3.26E | 31 4N | 111 13E | 596293 | 24689 | 165 | 21 | 51 | 36 | 14 31 | 0 9 | ND | 2.838 |
| 70 | 5 10 59.189 | 2210 | 31 19.69N | 111 5.92E | 30 56N | 111 15E | 596198 | 24689 | 165 | 23 | 51 | 44 | 14 29 | 0 9 | ND | 2.843 |
| 71 | 5 10 61.606 | 2215 | 31 10.96N | 111 8.56E | 30 47N | 111 18E | 596104 | 24690 | 165 | 25 | 51 | 52 | 14 28 | 0 8 | ND | 2.843 |
| 72 | 5 10 64.023 | 2215 | 31 2.23N | 111 11.28E | 30 38N | 111 20E | 596014 | 24690 | 165 | 27 | 52 | 0 | 14 28 | 0 8 | ND | 2.837 |
| 73 | 5 10 66.440 | 2215 | 30 53.52N | 111 13.82E | 30 29N | 111 23E | 595926 | 24690 | 165 | 29 | 52 | 8 | 14 28 | 0 8 | ND | 2.843 |
| 74 | 5 10 68.857 | 2210 | 30 44.82N | 111 16.43E | 30 21N | 111 25E | 595840 | 24690 | 165 | 31 | 52 | 16 | 14 27 | 0 8 | ND | 2.850 |
| 75 | 5 10 71.274 | 2205 | 30 36.12N | 111 19.02E | 30 12N | 111 28E | 595756 | 24690 | 165 | 33 | 52 | 24 | 14 26 | 0 8 | ND | 2.848 |
| 76 | 5 10 73.691 | 2214 | 30 27.39N | 111 21.62E | 30 3N | 111 31E | 595675 | 24691 | 165 | 35 | 52 | 32 | 14 25 | 0 8 | ND | 2.838 |
| 77 | 5 10 76.108 | 2205 | 30 18.69N | 111 24.20E | 29 55N | 111 33E | 595597 | 24691 | 165 | 36 | 52 | 40 | 14 24 | 0 8 | ND | 2.858 |
| 78 | 5 10 78.525 | 2205 | 30 10.01N | 111 26.76E | 29 46N | 111 36E | 595522 | 24691 | 165 | 38 | 52 | 48 | 14 23 | 0 8 | ND | 2.850 |
| 79 | 5 10 80.942 | 2205 | 30 1.33N | 111 29.32E | 29 37N | 111 38E | 595448 | 24691 | 165 | 40 | 52 | 55 | 14 23 | 0 8 | ND | 2.856 |
| 80 | 5 10 83.359 | 2200 | 29 52.63N | 111 31.87E | 29 29N | 111 41E | 595378 | 24691 | 165 | 42 | 53 | 3 | 14 21 | 0 9 | ND | 2.843 |
| 81 | 5 10 85.776 | 2210 | 29 43.98N | 111 34.41E | 29 20N | 111 43E | 595309 | 24692 | 165 | 44 | 53 | 11 | 14 21 | 0 9 | ND | 2.843 |
| 82 | 5 10 88.193 | 2200 | 29 35.22N | 111 36.94E | 29 11N | 111 46E | 595243 | 24692 | 165 | 45 | 53 | 19 | 14 21 | 0 9 | ND | 2.856 |
| 83 | 5 10 90.610 | 2200 | 29 26.53N | 111 39.46E | 29 3N | 111 48E | 595180 | 24692 | 165 | 47 | 53 | 27 | 14 21 | 0 10 | ND | 2.856 |

| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | LONG | DEG | LAT | LONG | ALTITUDE | VELOC | DEG | MI | SUN/ | PITCH | ROLL | YAW | SCAN |
|-----|----|----|--------|------|-----|--------|-----|--------|-----|-----|------|----------|-------|-----|-----|------|-------|------|-----|-------|
| | | | | MILS | MIN | MIN | MIN | MIN | MIN | MIN | MIN | FEET | F/S | MI | DEG | MI | MIN | MIN | MIN | RATE |
| 1 | 6 | 37 | 18.729 | 0 | 70 | 5.25N | 53 | 24.66E | 69 | 44N | 54 | 706573 | 24430 | 132 | 2 | 10 | 58 | 15 | 23 | 1.772 |
| 2 | 6 | 37 | 22.274 | 3545 | 69 | 55.69N | 53 | 55.35E | 69 | 35N | 55 | 705628 | 24432 | 132 | 33 | 11 | 12 | 15 | 22 | 1.772 |
| 3 | 6 | 37 | 25.220 | 2945 | 69 | 47.68N | 54 | 20.49E | 69 | 26N | 55 | 704845 | 24434 | 132 | 58 | 11 | 24 | 15 | 21 | 2.134 |
| 4 | 6 | 37 | 27.994 | 2775 | 69 | 40.08N | 54 | 43.87E | 69 | 19N | 55 | 704109 | 24436 | 133 | 21 | 11 | 34 | 15 | 20 | 2.264 |
| 5 | 6 | 37 | 30.690 | 2636 | 69 | 32.64N | 55 | 6.32E | 69 | 11N | 56 | 703395 | 24437 | 133 | 43 | 11 | 45 | 15 | 20 | 2.331 |
| 6 | 6 | 37 | 33.359 | 2669 | 69 | 25.23N | 55 | 28.29E | 69 | 4N | 56 | 702690 | 24439 | 134 | 5 | 11 | 55 | 15 | 19 | 2.354 |
| 7 | 6 | 37 | 36.010 | 2650 | 69 | 17.82N | 55 | 49.84E | 68 | 56N | 56 | 701990 | 24440 | 134 | 26 | 12 | 5 | 15 | 18 | 2.371 |
| 8 | 6 | 37 | 38.649 | 2640 | 69 | 10.39N | 55 | 11.06E | 68 | 49N | 57 | 701295 | 24442 | 134 | 48 | 12 | 15 | 15 | 18 | 2.388 |
| 9 | 6 | 37 | 41.280 | 2631 | 69 | 2.94N | 56 | 31.96E | 68 | 41N | 57 | 700604 | 24444 | 135 | 8 | 12 | 25 | 15 | 18 | 2.388 |
| 10 | 6 | 37 | 43.904 | 2624 | 68 | 55.46N | 56 | 52.57E | 68 | 33N | 57 | 699916 | 24445 | 135 | 29 | 12 | 36 | 15 | 17 | 2.395 |
| 11 | 6 | 37 | 46.515 | 2610 | 68 | 47.98N | 57 | 12.83E | 68 | 26N | 58 | 699232 | 24447 | 135 | 49 | 12 | 46 | 15 | 16 | 2.407 |
| 12 | 6 | 37 | 49.119 | 2605 | 68 | 40.47N | 57 | 32.82E | 68 | 18N | 58 | 698552 | 24448 | 136 | 9 | 12 | 56 | 15 | 16 | 2.412 |
| 13 | 6 | 37 | 51.725 | 2605 | 68 | 32.92N | 57 | 52.58E | 68 | 11N | 58 | 697872 | 24451 | 136 | 28 | 13 | 6 | 15 | 15 | 2.412 |
| 14 | 6 | 37 | 54.319 | 2595 | 68 | 25.36N | 58 | 12.04E | 68 | 3N | 59 | 697197 | 24451 | 136 | 48 | 13 | 16 | 15 | 14 | 2.421 |
| 15 | 6 | 37 | 56.914 | 2595 | 68 | 17.76N | 58 | 31.28E | 67 | 55N | 59 | 696523 | 24453 | 137 | 7 | 13 | 26 | 15 | 14 | 2.421 |
| 16 | 6 | 37 | 59.505 | 2590 | 68 | 10.13N | 58 | 50.27E | 67 | 48N | 59 | 695852 | 24455 | 137 | 26 | 13 | 36 | 15 | 13 | 2.426 |
| 17 | 6 | 38 | 2.090 | 2585 | 68 | 2.47N | 59 | 9.00E | 67 | 40N | 60 | 695183 | 24456 | 137 | 44 | 13 | 46 | 15 | 12 | 2.431 |
| 18 | 6 | 38 | 4.669 | 2580 | 67 | 54.80N | 59 | 27.47E | 67 | 32N | 60 | 694517 | 24458 | 138 | 2 | 13 | 56 | 15 | 12 | 2.435 |
| 19 | 6 | 38 | 7.249 | 2580 | 67 | 47.09N | 59 | 45.75E | 67 | 24N | 60 | 693853 | 24459 | 138 | 38 | 14 | 15 | 15 | 11 | 2.435 |
| 20 | 6 | 38 | 9.819 | 2570 | 67 | 39.37N | 60 | 3.75E | 67 | 17N | 60 | 693192 | 24462 | 138 | 56 | 14 | 25 | 15 | 11 | 2.445 |
| 21 | 6 | 38 | 12.386 | 2566 | 67 | 31.62N | 60 | 21.53E | 67 | 9N | 61 | 692533 | 24462 | 138 | 56 | 14 | 25 | 15 | 11 | 2.449 |
| 22 | 6 | 38 | 14.949 | 2564 | 67 | 23.87N | 60 | 39.08E | 66 | 10N | 61 | 691877 | 24464 | 139 | 13 | 14 | 35 | 15 | 10 | 2.451 |
| 23 | 6 | 38 | 17.506 | 2556 | 67 | 16.07N | 60 | 56.40E | 66 | 53N | 61 | 691224 | 24465 | 139 | 31 | 14 | 45 | 15 | 10 | 2.458 |
| 24 | 6 | 38 | 20.060 | 2554 | 67 | 8.26N | 61 | 13.50E | 66 | 45N | 62 | 690573 | 24467 | 139 | 48 | 14 | 55 | 15 | 10 | 2.468 |
| 25 | 6 | 38 | 22.614 | 2555 | 67 | 0.42N | 61 | 30.42E | 66 | 37N | 62 | 689923 | 24468 | 140 | 4 | 15 | 5 | 15 | 9 | 2.459 |
| 26 | 6 | 38 | 25.164 | 2550 | 66 | 52.56N | 61 | 47.12E | 66 | 29N | 62 | 689276 | 24470 | 140 | 21 | 15 | 15 | 15 | 8 | 2.464 |
| 27 | 6 | 38 | 27.709 | 2545 | 66 | 44.68N | 62 | 3.60E | 66 | 21N | 62 | 688631 | 24471 | 140 | 37 | 15 | 24 | 15 | 8 | 2.469 |
| 28 | 6 | 38 | 30.249 | 2540 | 66 | 36.78N | 62 | 19.87E | 66 | 14N | 63 | 687989 | 24473 | 141 | 53 | 15 | 34 | 15 | 7 | 2.474 |
| 29 | 6 | 38 | 32.784 | 2535 | 66 | 28.87N | 62 | 35.94E | 66 | 6N | 63 | 687351 | 24474 | 141 | 9 | 15 | 44 | 15 | 7 | 2.479 |
| 30 | 6 | 38 | 35.319 | 2535 | 66 | 20.93N | 62 | 51.83E | 65 | 58N | 63 | 686712 | 24476 | 141 | 25 | 15 | 54 | 15 | 7 | 2.479 |
| 31 | 6 | 38 | 37.846 | 2529 | 66 | 12.99N | 63 | 7.49E | 65 | 50N | 63 | 686078 | 24477 | 141 | 40 | 16 | 3 | 15 | 7 | 2.487 |
| 32 | 6 | 38 | 40.374 | 2529 | 66 | 5.02N | 63 | 23.00E | 65 | 42N | 64 | 685445 | 24479 | 141 | 56 | 16 | 13 | 15 | 6 | 2.484 |
| 33 | 6 | 38 | 42.895 | 2520 | 65 | 57.03N | 63 | 38.29E | 65 | 34N | 64 | 684815 | 24480 | 142 | 11 | 16 | 23 | 15 | 6 | 2.493 |
| 34 | 6 | 38 | 45.414 | 2520 | 65 | 49.03N | 63 | 53.41E | 65 | 26N | 64 | 684187 | 24482 | 142 | 26 | 16 | 33 | 15 | 6 | 2.493 |
| 35 | 6 | 38 | 47.936 | 2521 | 65 | 40.99N | 64 | 8.30E | 65 | 17N | 64 | 683559 | 24485 | 142 | 55 | 16 | 42 | 15 | 6 | 2.492 |
| 36 | 6 | 38 | 50.449 | 2514 | 65 | 32.95N | 64 | 23.15E | 65 | 9N | 65 | 682935 | 24485 | 142 | 55 | 16 | 52 | 15 | 6 | 2.499 |
| 37 | 6 | 38 | 52.955 | 2506 | 65 | 24.91N | 64 | 37.71E | 65 | 1N | 65 | 682315 | 24486 | 143 | 10 | 17 | 2 | 15 | 5 | 2.507 |
| 38 | 6 | 38 | 55.465 | 2509 | 65 | 16.83N | 64 | 52.14E | 65 | 53N | 65 | 681695 | 24487 | 143 | 24 | 17 | 11 | 15 | 5 | 2.504 |
| 39 | 6 | 38 | 57.960 | 2496 | 65 | 8.77N | 65 | 6.34E | 64 | 45N | 65 | 681080 | 24489 | 143 | 38 | 17 | 21 | 15 | 5 | 2.517 |
| 40 | 6 | 39 | 0.465 | 2504 | 65 | 0.66N | 65 | 20.44E | 64 | 37N | 66 | 680464 | 24490 | 143 | 52 | 17 | 31 | 15 | 5 | 2.523 |
| 41 | 6 | 39 | 2.954 | 2490 | 64 | 52.57N | 65 | 34.31E | 64 | 29N | 66 | 679854 | 24492 | 144 | 5 | 17 | 40 | 15 | 5 | 2.523 |
| 42 | 6 | 39 | 5.449 | 2495 | 64 | 44.44N | 65 | 48.07E | 64 | 21N | 66 | 679243 | 24493 | 144 | 32 | 17 | 50 | 15 | 4 | 2.518 |
| 43 | 6 | 39 | 7.944 | 2495 | 64 | 36.28N | 66 | 1.69E | 64 | 12N | 66 | 678634 | 24495 | 144 | 44 | 18 | 0 | 15 | 4 | 2.518 |
| 44 | 6 | 39 | 10.430 | 2485 | 64 | 28.14N | 66 | 15.11E | 64 | 4N | 66 | 678029 | 24496 | 144 | 46 | 18 | 9 | 15 | 4 | 2.528 |
| 45 | 6 | 39 | 12.914 | 2485 | 64 | 19.97N | 66 | 28.39E | 63 | 50N | 67 | 677426 | 24497 | 144 | 59 | 18 | 19 | 15 | 4 | 2.528 |

SPECIAL HANDLING REQUIRED

HANDLE VIA TALENT-KEYHOLE

CONTROL ONLY

SPECIAL HANDLING REQUIRED

HANDLE VIA TALENT KEYHOLE

PASS 860 FWD 3MAR65 FRAME EPHMERIS MISSION 1817-2 ID 43 LIST DATE 18MAY65 PAGE 9

| FRM | Z TIME | HR MI SEC | DTIM | MILS | DEG MIN | LAT | DEG MIN | LONG | DEG MIN | LONG | ALTITUDE FEET | VELOC F/5 | AZIMUTH DEG | SUN/ DEG MI | PITCH DEG MIN | ROLL DEG MIN | YAW DEG MIN | SCAN RATE | | |
|-----|--------|-----------|-------|------|---------|-----|---------|------|---------|------|---------------|-----------|-------------|-------------|---------------|--------------|-------------|-----------|----|-------|
| 46 | 6 39 | 15.395 | 2480 | 64 | 11.80N | 66 | 41.51E | 63 | 48N | 67 | 23E | 676824 | 24499 | 145 | 12 | 18 | 28 | 15 | 4 | 2.534 |
| 47 | 6 39 | 17.869 | 2475 | 64 | 3.62N | 66 | 54.47E | 63 | 48N | 67 | 36E | 676826 | 24508 | 145 | 25 | 18 | 38 | 15 | 4 | 2.539 |
| 48 | 6 39 | 20.345 | 2475 | 63 | 55.42N | 67 | 7.39E | 63 | 31N | 67 | 48E | 675629 | 24502 | 145 | 37 | 18 | 47 | 15 | 5 | 2.539 |
| 49 | 6 39 | 22.814 | 2470 | 63 | 47.22N | 67 | 19.97E | 63 | 23N | 68 | 0E | 675035 | 24503 | 145 | 50 | 18 | 57 | 15 | 5 | 2.544 |
| 50 | 6 39 | 25.279 | 2465 | 63 | 39.01N | 67 | 32.49E | 63 | 15N | 68 | 13E | 674444 | 24504 | 146 | 2 | 19 | 6 | 15 | 5 | 2.549 |
| 51 | 6 39 | 27.744 | 2465 | 63 | 30.78N | 67 | 44.08E | 63 | 7N | 68 | 24E | 673854 | 24506 | 146 | 14 | 19 | 16 | 15 | 5 | 2.549 |
| 52 | 6 39 | 30.204 | 2460 | 63 | 22.55N | 67 | 57.13E | 62 | 58N | 68 | 36E | 673267 | 24507 | 146 | 26 | 19 | 26 | 15 | 5 | 2.554 |
| 53 | 6 39 | 32.069 | 2465 | 63 | 14.28N | 68 | 9.28E | 62 | 50N | 68 | 48E | 672681 | 24508 | 146 | 38 | 19 | 35 | 15 | 5 | 2.554 |
| 54 | 6 39 | 35.130 | 2460 | 63 | 6.00N | 68 | 21.29E | 62 | 42N | 69 | 0E | 672097 | 24510 | 146 | 50 | 19 | 45 | 15 | 6 | 2.554 |
| 55 | 6 41 | 13.939 | 98810 | 57 | 20.54N | 75 | 0.23E | 56 | 55N | 75 | 26E | 649996 | 24561 | 153 | 20 | 26 | 6 | 15 | 12 | 0.064 |
| 56 | 6 41 | 17.145 | 3205 | 57 | 8.98N | 75 | 10.90E | 56 | 43N | 75 | 37E | 649326 | 24563 | 153 | 30 | 26 | 18 | 15 | 12 | 1.960 |
| 57 | 6 41 | 19.820 | 2676 | 56 | 59.32N | 75 | 19.72E | 56 | 34N | 75 | 45E | 648770 | 24564 | 153 | 39 | 26 | 29 | 15 | 13 | 2.348 |
| 58 | 6 41 | 22.334 | 2514 | 56 | 50.23N | 75 | 27.93E | 56 | 25N | 75 | 53E | 648249 | 24566 | 153 | 46 | 26 | 38 | 15 | 14 | 2.499 |
| 59 | 6 41 | 27.070 | 2435 | 56 | 41.41N | 75 | 35.02E | 56 | 16N | 76 | 1E | 647747 | 24567 | 153 | 54 | 26 | 48 | 15 | 15 | 2.580 |
| 60 | 6 41 | 27.180 | 2410 | 56 | 32.67N | 75 | 43.96E | 56 | 7N | 76 | 8E | 647251 | 24568 | 154 | 2 | 26 | 57 | 15 | 16 | 2.607 |
| 61 | 6 41 | 29.564 | 2385 | 56 | 24.01N | 75 | 51.16E | 55 | 58N | 76 | 16E | 646782 | 24569 | 154 | 9 | 27 | 6 | 15 | 17 | 2.634 |
| 62 | 6 41 | 31.935 | 2370 | 56 | 15.40N | 75 | 58.65E | 55 | 50N | 76 | 23E | 646278 | 24570 | 154 | 16 | 27 | 15 | 15 | 18 | 2.651 |
| 63 | 6 41 | 34.300 | 2365 | 56 | 6.80N | 76 | 6.06E | 55 | 41N | 76 | 30E | 645797 | 24571 | 154 | 23 | 27 | 24 | 15 | 18 | 2.657 |
| 64 | 6 41 | 36.654 | 2355 | 55 | 58.23N | 76 | 13.39E | 55 | 32N | 76 | 37E | 645320 | 24572 | 154 | 30 | 27 | 34 | 15 | 19 | 2.668 |
| 65 | 6 41 | 39.010 | 2355 | 55 | 49.64N | 76 | 20.65E | 55 | 24N | 76 | 45E | 644845 | 24574 | 154 | 37 | 27 | 43 | 15 | 20 | 2.668 |
| 66 | 6 41 | 41.359 | 2350 | 55 | 41.07N | 76 | 27.85E | 55 | 15N | 76 | 52E | 644372 | 24575 | 154 | 44 | 27 | 52 | 15 | 20 | 2.674 |
| 67 | 6 41 | 43.694 | 2335 | 55 | 32.54N | 76 | 34.94E | 55 | 7N | 76 | 59E | 643904 | 24576 | 154 | 51 | 28 | 1 | 15 | 21 | 2.691 |
| 68 | 6 41 | 46.039 | 2345 | 55 | 23.97N | 76 | 42.01E | 54 | 58N | 77 | 5E | 643437 | 24577 | 154 | 58 | 28 | 10 | 15 | 22 | 2.679 |
| 69 | 6 41 | 48.374 | 2335 | 55 | 15.42N | 76 | 48.99E | 54 | 41N | 77 | 12E | 642972 | 24578 | 155 | 4 | 28 | 19 | 15 | 22 | 2.691 |
| 70 | 6 41 | 50.709 | 2335 | 55 | 6.87N | 76 | 55.92E | 54 | 41N | 77 | 19E | 642510 | 24579 | 155 | 11 | 28 | 28 | 15 | 22 | 2.691 |
| 71 | 6 41 | 53.034 | 2325 | 54 | 58.34N | 77 | 2.77E | 54 | 32N | 77 | 26E | 642051 | 24580 | 155 | 18 | 28 | 37 | 15 | 22 | 2.702 |
| 72 | 6 41 | 55.364 | 2330 | 54 | 49.79N | 77 | 9.58E | 54 | 24N | 77 | 32E | 641593 | 24581 | 155 | 24 | 28 | 46 | 15 | 23 | 2.697 |
| 73 | 6 41 | 57.689 | 2325 | 54 | 41.25N | 77 | 16.32E | 54 | 15N | 77 | 39E | 641137 | 24582 | 155 | 31 | 28 | 55 | 15 | 23 | 2.702 |
| 74 | 6 42 | 0.016 | 2326 | 54 | 32.70N | 77 | 23.02E | 54 | 7N | 77 | 46E | 640684 | 24583 | 155 | 37 | 29 | 4 | 15 | 23 | 2.701 |
| 75 | 6 42 | 2.334 | 2319 | 54 | 24.16N | 77 | 29.64E | 53 | 58N | 77 | 52E | 640233 | 24584 | 155 | 43 | 29 | 12 | 15 | 23 | 2.709 |
| 76 | 6 42 | 4.654 | 2320 | 54 | 15.62N | 77 | 36.22E | 53 | 50N | 77 | 59E | 639785 | 24585 | 155 | 50 | 29 | 21 | 15 | 23 | 2.714 |
| 77 | 6 42 | 6.970 | 2315 | 54 | 7.08N | 77 | 42.74E | 53 | 41N | 78 | 5E | 639339 | 24586 | 155 | 56 | 29 | 30 | 15 | 23 | 2.714 |
| 78 | 6 42 | 9.284 | 2315 | 53 | 58.54N | 77 | 49.20E | 53 | 33N | 78 | 11E | 638894 | 24587 | 156 | 2 | 29 | 39 | 15 | 23 | 2.714 |
| 79 | 6 42 | 11.595 | 2310 | 53 | 50.01N | 77 | 55.61E | 53 | 24N | 78 | 18E | 638453 | 24589 | 156 | 8 | 29 | 48 | 15 | 23 | 2.720 |
| 80 | 6 42 | 13.905 | 2311 | 53 | 41.46N | 78 | 1.97E | 53 | 16N | 78 | 24E | 638013 | 24590 | 156 | 14 | 29 | 57 | 15 | 23 | 2.719 |
| 81 | 6 42 | 16.216 | 2310 | 53 | 32.92N | 78 | 8.29E | 53 | 7N | 78 | 30E | 637575 | 24591 | 156 | 20 | 30 | 6 | 15 | 22 | 2.720 |
| 82 | 6 42 | 18.524 | 2305 | 53 | 24.37N | 78 | 14.55E | 52 | 59N | 78 | 36E | 637139 | 24592 | 156 | 26 | 30 | 14 | 15 | 21 | 2.721 |
| 83 | 6 42 | 20.829 | 2305 | 53 | 15.83N | 78 | 20.76E | 52 | 50N | 78 | 42E | 636706 | 24593 | 156 | 32 | 30 | 23 | 15 | 21 | 2.726 |
| 84 | 6 42 | 23.131 | 2301 | 53 | 7.29N | 78 | 26.91E | 52 | 42N | 78 | 48E | 636275 | 24594 | 156 | 38 | 30 | 32 | 15 | 21 | 2.731 |
| 85 | 6 42 | 25.430 | 2299 | 52 | 58.76N | 78 | 33.02E | 52 | 33N | 78 | 54E | 635847 | 24595 | 156 | 44 | 30 | 41 | 15 | 20 | 2.733 |
| 86 | 6 42 | 27.725 | 2295 | 52 | 50.24N | 78 | 39.07E | 52 | 25N | 79 | 0E | 635421 | 24596 | 156 | 49 | 30 | 50 | 15 | 20 | 2.738 |
| 87 | 6 42 | 30.020 | 2295 | 52 | 41.71N | 78 | 45.07E | 52 | 16N | 79 | 6E | 634997 | 24597 | 156 | 55 | 30 | 58 | 15 | 20 | 2.738 |
| 88 | 6 42 | 32.310 | 2290 | 52 | 33.19N | 78 | 51.02E | 52 | 8N | 79 | 12E | 634575 | 24598 | 157 | 1 | 31 | 7 | 15 | 19 | 2.744 |
| 89 | 6 42 | 34.604 | 2295 | 52 | 24.64N | 78 | 56.95E | 51 | 59N | 79 | 18E | 634155 | 24599 | 157 | 6 | 31 | 16 | 15 | 19 | 2.738 |
| 90 | 6 42 | 36.896 | 2291 | 52 | 16.11N | 79 | 2.82E | 51 | 50N | 79 | 23E | 633737 | 24600 | 157 | 12 | 31 | 25 | 15 | 19 | 2.743 |

SPECIAL HANDLING REQUIRED

HANDLE VIA TALENT KEYHOLE

| PASS | 86D FWD | 3MARRS | FRM | 2 TIME | HR MI | SEC | DTIM | MILS | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|------|---------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|----------|-------|---------|--------|---------|---------|---------|--------|
| | | | | | | | | | LAT | LONG | LAT | LONG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 91 | 6 | 42 | 39.185 | 2289 | 52 | 7.57N | 79 | 8.64E | 79 | 14.42E | 42N | 29E | 633322 | 24681 | 157 | 17 | 31 | 34 | 15 | 2.745 |
| 92 | 6 | 42 | 41.478 | 2285 | 51 | 59.05N | 79 | 14.42E | 79 | 28.15E | 33N | 35E | 632988 | 24682 | 157 | 23 | 31 | 42 | 15 | 2.758 |
| 93 | 6 | 42 | 43.755 | 2285 | 51 | 58.51N | 79 | 28.15E | 79 | 25.82E | 25N | 40E | 632497 | 24683 | 157 | 28 | 31 | 51 | 15 | 2.758 |
| 94 | 6 | 42 | 46.829 | 2275 | 51 | 42.01N | 79 | 25.82E | 79 | 31.48E | 16N | 46E | 632089 | 24684 | 157 | 34 | 32 | 8 | 15 | 2.762 |
| 95 | 6 | 42 | 48.314 | 2285 | 51 | 33.47N | 79 | 31.48E | 79 | 37.06E | 8N | 51E | 631681 | 24684 | 157 | 39 | 32 | 8 | 15 | 2.762 |
| 96 | 6 | 42 | 50.584 | 2270 | 51 | 24.98N | 79 | 37.06E | 79 | 42.63E | 59N | 57E | 631279 | 24685 | 157 | 44 | 32 | 17 | 15 | 2.762 |
| 97 | 6 | 42 | 52.864 | 2280 | 51 | 16.44N | 79 | 42.63E | 79 | 48.15E | 51N | 2E | 630876 | 24686 | 157 | 50 | 32 | 26 | 15 | 2.762 |
| 98 | 6 | 42 | 55.140 | 2275 | 51 | 7.91N | 79 | 48.15E | 79 | 53.63E | 42N | 8E | 630475 | 24687 | 157 | 55 | 32 | 35 | 15 | 2.762 |
| 99 | 6 | 42 | 57.414 | 2275 | 50 | 59.39N | 79 | 53.63E | 79 | 59.06E | 34N | 13E | 630077 | 24688 | 158 | 8 | 32 | 43 | 15 | 2.762 |
| 100 | 6 | 42 | 59.685 | 2270 | 50 | 50.87N | 79 | 59.06E | 79 | 59.06E | 25N | 19E | 629682 | 24689 | 158 | 5 | 32 | 52 | 15 | 2.768 |
| 101 | 6 | 42 | 1.949 | 2265 | 50 | 42.36N | 80 | 4.45E | 80 | 4.45E | 17N | 24E | 629289 | 24610 | 158 | 10 | 33 | 1 | 15 | 2.774 |
| 102 | 6 | 42 | 4.220 | 2270 | 50 | 33.83N | 80 | 15.12E | 80 | 9.81E | 8N | 29E | 628897 | 24611 | 158 | 15 | 33 | 9 | 15 | 2.774 |
| 103 | 6 | 42 | 6.484 | 2265 | 50 | 25.32N | 80 | 15.12E | 80 | 15.12E | 8N | 35E | 628508 | 24612 | 158 | 20 | 33 | 18 | 15 | 2.780 |
| 104 | 6 | 42 | 8.744 | 2260 | 50 | 16.82N | 80 | 28.39E | 80 | 28.39E | 51N | 40E | 628122 | 24613 | 158 | 25 | 33 | 27 | 15 | 2.780 |
| 105 | 6 | 42 | 11.005 | 2260 | 50 | 8.31N | 80 | 25.62E | 80 | 25.62E | 43N | 45E | 627737 | 24614 | 158 | 30 | 33 | 35 | 15 | 2.780 |
| 106 | 6 | 42 | 13.265 | 2260 | 49 | 59.80N | 80 | 38.82E | 80 | 38.82E | 26N | 50E | 627355 | 24615 | 158 | 35 | 33 | 44 | 15 | 2.786 |
| 107 | 6 | 42 | 15.520 | 2255 | 49 | 51.30N | 80 | 35.97E | 80 | 35.97E | 17N | 55E | 626975 | 24616 | 158 | 39 | 33 | 52 | 15 | 2.786 |
| 108 | 6 | 42 | 17.779 | 2260 | 49 | 42.78N | 80 | 41.11E | 80 | 41.11E | 9N | 8E | 626596 | 24616 | 158 | 44 | 34 | 1 | 15 | 2.788 |
| 109 | 6 | 42 | 20.034 | 2255 | 49 | 34.27N | 80 | 46.19E | 80 | 46.19E | 8N | 10E | 626220 | 24617 | 158 | 49 | 34 | 10 | 15 | 2.788 |
| 110 | 6 | 42 | 22.290 | 2255 | 49 | 25.76N | 80 | 51.25E | 80 | 51.25E | 8N | 15E | 625846 | 24618 | 158 | 54 | 34 | 18 | 15 | 2.788 |
| 111 | 6 | 42 | 24.540 | 2250 | 49 | 17.26N | 80 | 56.26E | 80 | 56.26E | 52N | 15E | 625475 | 24619 | 158 | 58 | 34 | 27 | 15 | 2.793 |
| 112 | 6 | 42 | 26.794 | 2254 | 49 | 8.74N | 81 | 1.25E | 81 | 1.25E | 43N | 20E | 625104 | 24620 | 159 | 3 | 34 | 35 | 15 | 2.793 |
| 113 | 6 | 42 | 29.044 | 2250 | 49 | 0.23N | 81 | 6.20E | 81 | 6.20E | 35N | 25E | 624737 | 24621 | 159 | 8 | 34 | 44 | 15 | 2.793 |
| 114 | 6 | 42 | 31.290 | 2246 | 48 | 51.73N | 81 | 11.11E | 81 | 11.11E | 26N | 30E | 624372 | 24622 | 159 | 12 | 34 | 53 | 15 | 2.798 |
| 115 | 6 | 42 | 33.544 | 2254 | 48 | 43.19N | 81 | 16.81E | 81 | 16.81E | 18N | 34E | 624008 | 24623 | 159 | 17 | 35 | 1 | 15 | 2.798 |
| 116 | 6 | 42 | 35.794 | 2250 | 48 | 34.67N | 81 | 28.88E | 81 | 28.88E | 9N | 39E | 623646 | 24623 | 159 | 21 | 35 | 10 | 15 | 2.798 |
| 117 | 6 | 42 | 38.048 | 2246 | 48 | 26.16N | 81 | 25.68E | 81 | 25.68E | 1N | 44E | 623287 | 24624 | 159 | 26 | 35 | 18 | 15 | 2.798 |
| 118 | 6 | 42 | 40.302 | 2249 | 48 | 17.63N | 81 | 38.48E | 81 | 38.48E | 52N | 49E | 622929 | 24625 | 159 | 30 | 35 | 27 | 15 | 2.805 |
| 119 | 6 | 42 | 42.529 | 2240 | 48 | 9.13N | 81 | 35.23E | 81 | 35.23E | 44N | 53E | 622575 | 24626 | 159 | 34 | 35 | 35 | 15 | 2.805 |
| 120 | 6 | 42 | 44.774 | 2245 | 48 | 0.68N | 81 | 39.95E | 81 | 39.95E | 35N | 58E | 622222 | 24627 | 159 | 39 | 35 | 44 | 15 | 2.805 |
| 121 | 6 | 42 | 47.018 | 2235 | 47 | 52.11N | 81 | 44.63E | 81 | 44.63E | 27N | 2E | 621872 | 24628 | 159 | 43 | 35 | 52 | 15 | 2.811 |
| 122 | 6 | 42 | 49.249 | 2240 | 47 | 43.60N | 81 | 49.29E | 81 | 49.29E | 18N | 7E | 621524 | 24628 | 159 | 47 | 36 | 1 | 15 | 2.805 |
| 123 | 6 | 42 | 51.489 | 2240 | 47 | 35.88N | 81 | 53.92E | 81 | 53.92E | 8E | 11E | 621177 | 24629 | 159 | 52 | 36 | 10 | 15 | 2.805 |
| 124 | 6 | 42 | 53.729 | 2240 | 47 | 26.56N | 81 | 58.53E | 81 | 58.53E | 1N | 16E | 620832 | 24630 | 159 | 56 | 36 | 18 | 15 | 2.805 |
| 125 | 6 | 42 | 55.978 | 2240 | 47 | 18.83N | 82 | 3.11E | 82 | 3.11E | 53N | 20E | 620490 | 24631 | 160 | 0 | 36 | 27 | 15 | 2.805 |
| 126 | 6 | 42 | 58.199 | 2230 | 47 | 9.54N | 82 | 7.64E | 82 | 7.64E | 44N | 25E | 620151 | 24632 | 160 | 4 | 36 | 35 | 15 | 2.818 |
| 127 | 6 | 42 | 0.430 | 2230 | 47 | 1.84N | 82 | 12.14E | 82 | 12.14E | 36N | 29E | 619814 | 24633 | 160 | 8 | 36 | 44 | 15 | 2.818 |
| 128 | 6 | 42 | 44.954 | 24525 | 32 | 29.49N | 88 | 3.57E | 88 | 3.57E | 4N | 13E | 596661 | 24688 | 165 | 7 | 50 | 43 | 15 | 2.8043 |
| 129 | 6 | 42 | 48.029 | 3075 | 32 | 17.39N | 88 | 7.35E | 88 | 7.35E | 52N | 17E | 596662 | 24688 | 165 | 10 | 50 | 54 | 15 | 2.503 |
| 130 | 6 | 42 | 50.839 | 2510 | 32 | 7.51N | 88 | 10.43E | 88 | 10.43E | 42N | 20E | 596547 | 24688 | 165 | 12 | 51 | 3 | 15 | 2.667 |
| 131 | 6 | 42 | 52.896 | 2356 | 31 | 58.23N | 88 | 13.30E | 88 | 13.30E | 33N | 23E | 596436 | 24689 | 165 | 14 | 51 | 12 | 15 | 2.799 |
| 132 | 6 | 42 | 55.159 | 2264 | 31 | 49.32N | 88 | 16.05E | 88 | 16.05E | 24N | 26E | 596332 | 24689 | 165 | 16 | 51 | 20 | 15 | 2.775 |
| 133 | 6 | 42 | 57.484 | 2245 | 31 | 40.48N | 88 | 18.77E | 88 | 18.77E | 15N | 28E | 596231 | 24689 | 165 | 18 | 51 | 28 | 15 | 2.824 |
| 134 | 6 | 42 | 59.638 | 2225 | 31 | 31.71N | 88 | 21.45E | 88 | 21.45E | 6N | 31E | 596134 | 24689 | 165 | 20 | 51 | 37 | 15 | 2.830 |
| 135 | 6 | 42 | 1.858 | 2220 | 31 | 22.96N | 88 | 24.12E | 88 | 24.12E | 58N | 34E | 596040 | 24690 | 165 | 22 | 51 | 45 | 15 | |

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

Approved For Release 2001/08/21 : CIA-RDP78T05439A00050002-2

| FRM | HR | MI | SEC | DTIM | MILS | DEG | MIN | LONG | DEG | MIN | LONG | ALTITUDE | VELOC | DEG | MI | DEG | MIN | ROLL | DEG | MIN | YAW | DEG | MIN | SCAN | RATE |
|-----|----|----|--------|------|------|--------|-----|--------|-----|-----|------|----------|--------|-------|-----|-----|-----|------|-----|-----|-----|-----|-------|-------|------|
| 136 | 6 | 48 | 4.869 | 2220 | 31 | 14.22N | 88 | 26.77E | 30 | 49N | 88 | 36E | 595948 | 24690 | 165 | 24 | 51 | 53 | 0 | 3 | 15 | 10 | 2.830 | 2.830 | |
| 137 | 6 | 48 | 6.289 | 2220 | 31 | 5.47N | 88 | 29.42E | 30 | 48N | 88 | 39E | 595858 | 24690 | 165 | 26 | 52 | 1 | 0 | 3 | 15 | 10 | 2.830 | 2.830 | |
| 138 | 6 | 48 | 8.498 | 2209 | 30 | 56.76N | 88 | 32.04E | 30 | 31N | 88 | 41E | 595771 | 24690 | 165 | 28 | 52 | 9 | 0 | 3 | 15 | 11 | 2.844 | 2.844 | |
| 139 | 6 | 48 | 10.699 | 2201 | 30 | 48.08N | 88 | 34.65E | 30 | 23N | 88 | 44E | 595687 | 24690 | 165 | 30 | 52 | 17 | 0 | 3 | 15 | 11 | 2.855 | 2.855 | |
| 140 | 6 | 48 | 12.909 | 2210 | 30 | 39.37N | 88 | 37.26E | 30 | 14N | 88 | 47E | 595605 | 24691 | 165 | 32 | 52 | 25 | 0 | 2 | 15 | 12 | 2.843 | 2.843 | |
| 141 | 6 | 48 | 15.109 | 2208 | 30 | 30.69N | 88 | 39.84E | 30 | 5N | 88 | 49E | 595526 | 24691 | 165 | 34 | 52 | 32 | 0 | 2 | 15 | 13 | 2.856 | 2.856 | |
| 142 | 6 | 48 | 17.314 | 2205 | 30 | 21.99N | 88 | 42.42E | 29 | 57N | 88 | 52E | 595449 | 24691 | 165 | 36 | 52 | 40 | 0 | 2 | 15 | 14 | 2.850 | 2.850 | |
| 143 | 6 | 48 | 19.515 | 2200 | 30 | 13.31N | 88 | 44.99E | 29 | 48N | 88 | 54E | 595375 | 24691 | 165 | 37 | 52 | 48 | 0 | 2 | 15 | 14 | 2.856 | 2.856 | |
| 144 | 6 | 48 | 21.720 | 2205 | 30 | 4.61N | 88 | 47.55E | 29 | 39N | 88 | 57E | 595303 | 24691 | 165 | 39 | 52 | 56 | 0 | 2 | 15 | 15 | 2.850 | 2.850 | |
| 145 | 6 | 48 | 23.930 | 2210 | 29 | 55.89N | 88 | 50.11E | 29 | 30N | 88 | 59E | 595233 | 24692 | 165 | 41 | 53 | 4 | 0 | 2 | 15 | 16 | 2.843 | 2.843 | |
| 146 | 6 | 48 | 26.135 | 2205 | 29 | 47.18N | 88 | 52.66E | 29 | 22N | 89 | 2E | 595166 | 24692 | 165 | 43 | 53 | 12 | 0 | 2 | 15 | 17 | 2.850 | 2.850 | |
| 147 | 6 | 48 | 28.329 | 2195 | 29 | 38.52N | 88 | 55.18E | 29 | 13N | 89 | 4E | 595102 | 24692 | 165 | 45 | 53 | 20 | 0 | 3 | 15 | 18 | 2.862 | 2.862 | |
| 148 | 6 | 48 | 30.534 | 2205 | 29 | 29.81N | 88 | 57.71E | 29 | 4N | 89 | 7E | 595040 | 24692 | 165 | 46 | 53 | 28 | 0 | 3 | 15 | 19 | 2.850 | 2.850 | |
| 149 | 6 | 48 | 32.734 | 2200 | 29 | 21.12N | 89 | 0.22E | 28 | 55N | 89 | 9E | 594980 | 24692 | 165 | 48 | 53 | 36 | 0 | 3 | 15 | 20 | 2.856 | 2.856 | |
| 150 | 6 | 48 | 34.935 | 2200 | 29 | 12.43N | 89 | 2.73E | 28 | 47N | 89 | 12E | 594923 | 24692 | 165 | 50 | 53 | 44 | 0 | 3 | 15 | 21 | 2.856 | 2.856 | |
| 151 | 6 | 48 | 37.135 | 2200 | 29 | 3.74N | 89 | 5.23E | 28 | 38N | 89 | 14E | 594869 | 24692 | 165 | 52 | 53 | 51 | 0 | 2 | 15 | 21 | 2.856 | 2.856 | |
| 152 | 6 | 48 | 39.334 | 2200 | 28 | 55.05N | 89 | 7.71E | 28 | 29N | 89 | 17E | 594816 | 24693 | 165 | 53 | 53 | 59 | 0 | 2 | 15 | 22 | 2.856 | 2.856 | |
| 153 | 6 | 48 | 41.535 | 2201 | 28 | 46.35N | 89 | 10.19E | 28 | 21N | 89 | 19E | 594766 | 24693 | 165 | 55 | 54 | 7 | 0 | 2 | 15 | 23 | 2.855 | 2.855 | |
| 154 | 6 | 48 | 43.739 | 2204 | 28 | 37.64N | 89 | 12.67E | 28 | 12N | 89 | 22E | 594719 | 24693 | 165 | 57 | 54 | 15 | 0 | 2 | 15 | 24 | 2.851 | 2.851 | |
| 155 | 6 | 48 | 45.939 | 2200 | 28 | 28.95N | 89 | 15.13E | 28 | 3N | 89 | 24E | 594672 | 24693 | 165 | 59 | 54 | 23 | 0 | 2 | 15 | 24 | 2.856 | 2.856 | |
| 156 | 6 | 48 | 48.135 | 2195 | 28 | 20.27N | 89 | 17.58E | 27 | 54N | 89 | 27E | 594632 | 24693 | 166 | 0 | 54 | 31 | 0 | 2 | 15 | 25 | 2.862 | 2.862 | |
| 157 | 6 | 48 | 50.329 | 2195 | 28 | 11.59N | 89 | 20.02E | 27 | 46N | 89 | 29E | 594593 | 24693 | 166 | 2 | 54 | 38 | 0 | 2 | 15 | 25 | 2.862 | 2.862 | |
| 158 | 6 | 48 | 52.525 | 2196 | 28 | 2.90N | 89 | 22.45E | 27 | 37N | 89 | 31E | 594555 | 24693 | 166 | 4 | 54 | 46 | 0 | 1 | 15 | 26 | 2.861 | 2.861 | |
| 159 | 6 | 48 | 54.729 | 2204 | 27 | 54.19N | 89 | 24.89E | 27 | 28N | 89 | 34E | 594520 | 24693 | 166 | 5 | 54 | 54 | 0 | 1 | 15 | 26 | 2.851 | 2.851 | |
| 160 | 6 | 48 | 56.925 | 2195 | 27 | 45.50N | 89 | 27.30E | 27 | 20N | 89 | 36E | 594488 | 24693 | 166 | 7 | 55 | 2 | 0 | 1 | 15 | 27 | 2.862 | 2.862 | |
| 161 | 6 | 48 | 59.130 | 2205 | 27 | 36.78N | 89 | 29.72E | 27 | 11N | 89 | 39E | 594458 | 24694 | 166 | 9 | 55 | 10 | 0 | 1 | 15 | 27 | 2.850 | 2.850 | |
| 162 | 6 | 49 | 1.329 | 2200 | 27 | 28.08N | 89 | 32.13E | 27 | 2N | 89 | 41E | 594431 | 24694 | 166 | 10 | 55 | 17 | 0 | 1 | 15 | 27 | 2.856 | 2.856 | |
| 163 | 6 | 49 | 3.529 | 2200 | 27 | 19.37N | 89 | 34.53E | 26 | 53N | 89 | 43E | 594405 | 24694 | 166 | 12 | 55 | 25 | 0 | 1 | 15 | 28 | 2.856 | 2.856 | |
| 164 | 6 | 49 | 5.721 | 2191 | 27 | 18.70N | 89 | 36.91E | 26 | 45N | 89 | 46E | 594383 | 24694 | 166 | 13 | 55 | 33 | 0 | 1 | 15 | 28 | 2.868 | 2.868 | |
| 165 | 6 | 49 | 7.921 | 2200 | 27 | 1.99N | 89 | 39.30E | 26 | 36N | 89 | 48E | 594363 | 24694 | 166 | 15 | 55 | 40 | 0 | 1 | 15 | 28 | 2.856 | 2.856 | |
| 166 | 6 | 49 | 10.114 | 2194 | 26 | 53.30N | 89 | 41.66E | 26 | 27N | 89 | 50E | 594345 | 24694 | 166 | 17 | 55 | 48 | 0 | 1 | 15 | 25 | 2.864 | 2.864 | |
| 167 | 6 | 49 | 12.310 | 2195 | 26 | 44.61N | 89 | 44.03E | 26 | 19N | 89 | 53E | 594331 | 24694 | 166 | 18 | 55 | 56 | 0 | 1 | 15 | 28 | 2.862 | 2.862 | |
| 168 | 6 | 49 | 14.505 | 2195 | 26 | 35.92N | 89 | 46.38E | 26 | 10N | 89 | 55E | 594318 | 24694 | 166 | 20 | 56 | 4 | 0 | 2 | 15 | 28 | 2.862 | 2.862 | |
| 169 | 6 | 49 | 16.699 | 2195 | 26 | 27.22N | 89 | 48.73E | 26 | 1N | 89 | 57E | 594309 | 24694 | 166 | 21 | 56 | 11 | 0 | 2 | 15 | 28 | 2.862 | 2.862 | |
| 170 | 6 | 49 | 18.899 | 2200 | 26 | 18.51N | 89 | 51.08E | 25 | 53N | 90 | 0E | 594301 | 24694 | 166 | 23 | 56 | 19 | 0 | 2 | 15 | 28 | 2.856 | 2.856 | |
| 171 | 6 | 49 | 21.101 | 2201 | 26 | 9.79N | 89 | 53.42E | 25 | 44N | 90 | 2E | 594296 | 24694 | 166 | 24 | 56 | 26 | 0 | 3 | 15 | 28 | 2.855 | 2.855 | |
| 172 | 6 | 49 | 23.300 | 2199 | 26 | 1.08N | 89 | 55.75E | 25 | 35N | 90 | 4E | 594294 | 24694 | 166 | 26 | 56 | 34 | 0 | 3 | 15 | 28 | 2.857 | 2.857 | |
| 173 | 6 | 49 | 25.494 | 2195 | 25 | 52.38N | 89 | 58.07E | 25 | 26N | 90 | 7E | 594294 | 24694 | 166 | 27 | 56 | 42 | 0 | 4 | 15 | 28 | 2.862 | 2.862 | |
| 174 | 6 | 49 | 27.694 | 2200 | 25 | 43.66N | 90 | 0.39E | 25 | 18N | 90 | 9E | 594297 | 24694 | 166 | 29 | 56 | 49 | 0 | 4 | 15 | 29 | 2.856 | 2.856 | |
| 175 | 6 | 49 | 29.890 | 2195 | 25 | 34.96N | 90 | 2.69E | 25 | 9N | 90 | 11E | 594302 | 24694 | 166 | 30 | 56 | 57 | 0 | 4 | 15 | 28 | 2.862 | 2.862 | |
| 176 | 6 | 49 | 32.079 | 2190 | 25 | 26.28N | 90 | 4.99E | 25 | 0N | 90 | 13E | 594310 | 24694 | 166 | 32 | 57 | 5 | 0 | 4 | 15 | 28 | 2.869 | 2.869 | |
| 177 | 6 | 49 | 34.278 | 2190 | 25 | 17.60N | 90 | 7.27E | 24 | 52N | 90 | 16E | 594320 | 24694 | 166 | 33 | 57 | 12 | 0 | 5 | 15 | 28 | 2.869 | 2.869 | |
| 178 | 6 | 49 | 36.478 | 2200 | 25 | 8.87N | 90 | 9.57E | 24 | 43N | 90 | 18E | 594332 | 24694 | 166 | 35 | 57 | 20 | 0 | 5 | 15 | 28 | 2.856 | 2.856 | |
| 179 | 6 | 49 | 38.659 | 2190 | 25 | 8.19N | 90 | 11.84E | 24 | 34N | 90 | 20E | 594348 | 24694 | 166 | 36 | 57 | 27 | 0 | 6 | 15 | 28 | 2.869 | 2.869 | |
| 180 | 6 | 49 | 40.859 | 2200 | 24 | 51.46N | 90 | 14.12E | 24 | 25N | 90 | 22E | 594365 | 24694 | 166 | 37 | 57 | 35 | 0 | 6 | 15 | 28 | 2.856 | 2.856 | |

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

FRAME EPHMERIS 1017-2

PASS 860 FWD 3MARG5

MISSION 1017-2

ID 43

LIST DATE 10MAY65 PAGE 12

| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | DEG | MI | DEG | MI | PITCH | DEG | ROLL | DEG | YAW | SCAN |
|-----|----|----|--------|------|-----|--------|-----|--------|-----|-----|-----|------|----------|-------|-----|----|-----|----|-------|-----|------|-----|-------|------|
| | | | | MILS | | MIN | MIN | MIN | | MIN | MIN | MIN | FEET | F/S | | MI | | MI | MIN | MIN | MIN | MIN | RATE | |
| 181 | 6 | 49 | 43.868 | 2200 | 24 | 42.74N | 90 | 16.39E | 24 | 17N | 90 | 25E | 594386 | 24694 | 166 | 39 | 57 | 42 | 15 | 28 | -0 | 7 | 2.856 | |
| 182 | 6 | 49 | 45.255 | 2195 | 24 | 34.03N | 90 | 18.65E | 24 | 8N | 90 | 27E | 594488 | 24694 | 166 | 40 | 57 | 50 | 15 | 28 | -0 | 7 | 2.862 | |
| 183 | 6 | 49 | 47.444 | 2190 | 24 | 25.34N | 90 | 20.89E | 23 | 59N | 90 | 29E | 594334 | 24694 | 166 | 42 | 57 | 57 | 15 | 27 | -0 | 8 | 2.869 | |
| 184 | 6 | 49 | 49.645 | 2200 | 24 | 16.61N | 90 | 23.14E | 23 | 51N | 90 | 31E | 594462 | 24694 | 166 | 43 | 58 | 5 | 15 | 27 | -0 | 8 | 2.856 | |
| 185 | 6 | 49 | 51.834 | 2190 | 24 | 7.92N | 90 | 25.38E | 23 | 42N | 90 | 33E | 594492 | 24694 | 166 | 44 | 58 | 12 | 15 | 27 | -0 | 9 | 2.869 | |
| 186 | 6 | 49 | 54.029 | 2195 | 23 | 59.21N | 90 | 27.61E | 23 | 33N | 90 | 36E | 594525 | 24694 | 166 | 46 | 58 | 20 | 15 | 27 | -0 | 9 | 2.862 | |
| 187 | 6 | 49 | 56.229 | 2200 | 23 | 50.48N | 90 | 29.84E | 23 | 24N | 90 | 38E | 594561 | 24694 | 166 | 47 | 58 | 27 | 15 | 27 | -0 | 10 | 2.856 | |
| 188 | 6 | 49 | 58.430 | 2200 | 23 | 41.74N | 90 | 32.07E | 23 | 16N | 90 | 40E | 594599 | 24694 | 166 | 48 | 58 | 35 | 15 | 27 | -0 | 11 | 2.856 | |
| 189 | 6 | 50 | 0.630 | 2200 | 23 | 33.01N | 90 | 34.29E | 23 | 7N | 90 | 42E | 594639 | 24693 | 166 | 50 | 58 | 42 | 15 | 27 | -0 | 11 | 2.856 | |
| 190 | 6 | 50 | 2.825 | 2196 | 23 | 24.29N | 90 | 36.50E | 22 | 58N | 90 | 44E | 594683 | 24693 | 166 | 51 | 58 | 50 | 15 | 27 | -0 | 12 | 2.861 | |
| 191 | 6 | 50 | 5.024 | 2199 | 23 | 15.56N | 90 | 38.71E | 22 | 50N | 90 | 47E | 594728 | 24693 | 166 | 52 | 58 | 57 | 15 | 26 | -0 | 12 | 2.857 | |
| 192 | 6 | 50 | 7.225 | 2200 | 23 | 6.82N | 90 | 40.91E | 22 | 41N | 90 | 49E | 594777 | 24693 | 166 | 54 | 59 | 4 | 15 | 25 | -0 | 13 | 2.856 | |
| 193 | 6 | 50 | 9.415 | 2191 | 22 | 58.12N | 90 | 43.10E | 22 | 32N | 90 | 51E | 594828 | 24693 | 166 | 55 | 59 | 12 | 15 | 25 | -0 | 13 | 2.868 | |
| 194 | 6 | 50 | 11.609 | 2194 | 22 | 49.41N | 90 | 45.28E | 22 | 23N | 90 | 53E | 594881 | 24693 | 166 | 56 | 59 | 19 | 15 | 25 | -0 | 14 | 2.864 | |
| 195 | 6 | 50 | 13.805 | 2195 | 22 | 40.69N | 90 | 47.46E | 22 | 15N | 90 | 55E | 594937 | 24693 | 166 | 58 | 59 | 27 | 15 | 25 | -0 | 14 | 2.862 | |
| 196 | 6 | 50 | 16.005 | 2200 | 22 | 31.94N | 90 | 49.64E | 22 | 6N | 90 | 57E | 594995 | 24693 | 166 | 59 | 59 | 34 | 15 | 25 | -0 | 14 | 2.856 | |
| 197 | 6 | 50 | 18.204 | 2200 | 22 | 23.21N | 90 | 51.81E | 21 | 57N | 90 | 59E | 595057 | 24693 | 167 | 0 | 59 | 41 | 15 | 24 | -0 | 15 | 2.856 | |
| 198 | 6 | 50 | 20.395 | 2190 | 22 | 14.50N | 90 | 53.97E | 21 | 48N | 91 | 2E | 595120 | 24692 | 167 | 1 | 59 | 48 | 15 | 24 | -0 | 15 | 2.869 | |
| 199 | 6 | 50 | 22.595 | 2200 | 22 | 5.76N | 90 | 56.13E | 21 | 40N | 91 | 4E | 595187 | 24692 | 167 | 3 | 59 | 56 | 15 | 23 | -0 | 15 | 2.856 | |
| 200 | 6 | 50 | 24.794 | 2200 | 21 | 57.02N | 90 | 58.28E | 21 | 31N | 91 | 6E | 595255 | 24692 | 167 | 4 | 60 | 3 | 15 | 23 | -0 | 15 | 2.856 | |
| 201 | 6 | 50 | 26.994 | 2200 | 21 | 48.27N | 91 | 0.43E | 21 | 22N | 91 | 8E | 595327 | 24692 | 167 | 5 | 60 | 10 | 15 | 23 | -0 | 16 | 2.856 | |
| 202 | 6 | 50 | 29.181 | 2186 | 21 | 39.58N | 91 | 2.57E | 21 | 14N | 91 | 10E | 595400 | 24692 | 167 | 6 | 60 | 18 | 15 | 23 | -0 | 16 | 2.874 | |
| 203 | 6 | 50 | 31.374 | 2194 | 21 | 30.86N | 91 | 4.70E | 21 | 5N | 91 | 12E | 595477 | 24692 | 167 | 7 | 60 | 25 | 15 | 22 | -0 | 16 | 2.864 | |
| 204 | 6 | 50 | 33.579 | 2205 | 21 | 22.09N | 91 | 6.84E | 20 | 56N | 91 | 14E | 595556 | 24692 | 167 | 9 | 60 | 32 | 15 | 21 | -0 | 16 | 2.850 | |
| 205 | 6 | 50 | 35.774 | 2195 | 21 | 13.37N | 91 | 8.96E | 20 | 47N | 91 | 16E | 595638 | 24691 | 167 | 10 | 60 | 39 | 15 | 21 | -0 | 16 | 2.862 | |
| 206 | 6 | 50 | 37.975 | 2200 | 21 | 4.62N | 91 | 11.09E | 20 | 39N | 91 | 19E | 595722 | 24691 | 167 | 11 | 60 | 46 | 15 | 21 | -0 | 16 | 2.856 | |
| 207 | 6 | 50 | 40.171 | 2196 | 20 | 55.88N | 91 | 13.20E | 20 | 30N | 91 | 21E | 595808 | 24691 | 167 | 12 | 60 | 54 | 15 | 20 | -0 | 16 | 2.861 | |

Approved For Release

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 870 FWD 3MAR65

FRAME EPHMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65 PAGE 13

| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUNV | PITCH | ROLL | YAW | SCAN |
|-------|------------|-------|-----------|-----------|---------|---------|----------|--------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILS | DEG MIN | DEG MIN | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 1 | 8 6 51.020 | 0 | 71 3.60N | 27 17.28E | 70 | 46N | 28 30E | 711651 | 24418 | 128 37 | 9 27 | 14 16 | 0 8 | 1.756 |
| 2 | 8 6 54.599 | 3579 | 70 54.61N | 27 51.47E | 70 | 36N | 3E | 710686 | 24420 | 129 11 | 9 41 | 14 16 | 0 8 | 1.756 |
| 3 | 8 6 57.578 | 2980 | 70 47.03N | 28 19.54E | 70 | 29N | 30E | 709128 | 24422 | 129 39 | 9 52 | 14 16 | 0 9 | 2.108 |
| 4 | 8 7 0.389 | 2818 | 70 39.82N | 28 45.68E | 70 | 21N | 55E | 709128 | 24424 | 130 5 | 10 3 | 14 16 | 0 10 | 2.236 |
| 5 | 8 7 3.134 | 2745 | 70 32.72N | 29 10.91E | 70 | 14N | 20E | 708393 | 24425 | 130 30 | 10 14 | 14 16 | 0 10 | 2.289 |
| 6 | 8 7 5.839 | 2705 | 70 25.65N | 29 35.47E | 70 | 7N | 43E | 707669 | 24427 | 130 54 | 10 24 | 14 16 | 0 10 | 2.323 |
| 7 | 8 7 8.533 | 2695 | 70 18.56N | 29 59.65E | 70 | 0N | 7E | 706949 | 24429 | 131 18 | 10 35 | 14 17 | 0 10 | 2.331 |
| 8 | 8 7 11.208 | 2675 | 70 11.46N | 30 23.37E | 69 | 52N | 30E | 706236 | 24430 | 131 42 | 10 45 | 14 16 | 0 10 | 2.349 |
| 9 | 8 7 13.878 | 2670 | 70 4.32N | 30 46.78E | 69 | 45N | 31 52E | 705525 | 24432 | 132 5. | 10 55 | 14 16 | 0 10 | 2.353 |
| 10 | 8 7 16.538 | 2660 | 69 57.16N | 31 9.82E | 69 | 38N | 15E | 704819 | 24434 | 132 28 | 11 6 | 14 17 | 0 10 | 2.362 |
| 11 | 8 7 19.193 | 2655 | 69 49.95N | 31 32.56E | 69 | 30N | 32 37E | 704114 | 24435 | 132 50 | 11 16 | 14 17 | 0 9 | 2.367 |
| 12 | 8 7 21.844 | 2650 | 69 42.71N | 31 54.99E | 69 | 23N | 58E | 703713 | 24437 | 133 13 | 11 26 | 14 17 | 0 9 | 2.371 |
| 13 | 8 7 24.483 | 2640 | 69 35.44N | 32 17.07E | 69 | 16N | 20E | 702715 | 24439 | 133 35 | 11 36 | 14 17 | 0 9 | 2.380 |
| 14 | 8 7 27.123 | 2640 | 69 28.13N | 32 38.89E | 69 | 8N | 41E | 702019 | 24440 | 133 56 | 11 47 | 14 17 | 0 9 | 2.389 |
| 15 | 8 7 29.753 | 2630 | 69 20.79N | 33 0.38E | 69 | 1N | 1E | 701327 | 24442 | 134 18 | 11 57 | 14 18 | 0 9 | 2.389 |
| 16 | 8 7 32.384 | 2630 | 69 13.41N | 33 21.63E | 68 | 53N | 22E | 700636 | 24443 | 134 39 | 12 7 | 14 18 | 0 9 | 2.389 |
| 17 | 8 7 35.009 | 2625 | 69 5.99N | 33 42.59E | 68 | 46N | 42E | 699948 | 24445 | 135 0 | 12 17 | 14 19 | 0 9 | 2.394 |
| 18 | 8 7 37.628 | 2620 | 68 58.55N | 34 3.25E | 68 | 38N | 2E | 699262 | 24447 | 135 20 | 12 27 | 14 19 | 0 9 | 2.398 |
| 19 | 8 7 40.248 | 2620 | 68 51.06N | 34 23.69E | 68 | 31N | 41E | 698578 | 24448 | 135 40 | 12 37 | 14 20 | 0 9 | 2.398 |
| 20 | 8 7 42.858 | 2610 | 68 43.55N | 34 43.82E | 68 | 23N | 41E | 697898 | 24450 | 135 0 | 12 48 | 14 20 | 0 9 | 2.407 |
| 21 | 8 7 45.464 | 2610 | 68 36.01N | 35 3.68E | 68 | 15N | 1E | 697220 | 24451 | 136 20 | 12 58 | 14 20 | 0 9 | 2.412 |
| 22 | 8 7 48.073 | 2610 | 68 28.43N | 35 23.34E | 68 | 0N | 20E | 696542 | 24453 | 136 40 | 13 8 | 14 21 | 0 9 | 2.407 |
| 23 | 8 7 50.674 | 2600 | 68 20.82N | 35 42.72E | 68 | 0N | 30E | 695869 | 24454 | 136 59 | 13 18 | 14 22 | 0 9 | 2.417 |
| 24 | 8 8 31.989 | 41316 | 66 15.07N | 40 22.68E | 65 | 53N | 9E | 685354 | 24479 | 141 36 | 15 58 | 14 22 | 0 13 | 0.152 |
| 25 | 8 8 35.324 | 3335 | 66 4.55N | 40 43.08E | 65 | 42N | 29E | 684522 | 24481 | 141 56 | 16 11 | 14 22 | 0 15 | 1.884 |
| 26 | 8 8 38.139 | 2814 | 65 55.63N | 41 0.14E | 65 | 35N | 45E | 683822 | 24482 | 142 13 | 16 21 | 14 23 | 0 16 | 2.233 |
| 27 | 8 8 40.813 | 2675 | 65 47.13N | 41 16.16E | 65 | 25N | 1E | 683157 | 24484 | 142 29 | 16 32 | 14 24 | 0 18 | 2.349 |
| 28 | 8 8 43.413 | 2670 | 65 38.83N | 41 31.55E | 65 | 17N | 16E | 682513 | 24485 | 142 44 | 16 42 | 14 24 | 0 19 | 2.417 |
| 29 | 8 8 45.983 | 2570 | 65 30.61N | 41 46.61E | 65 | 8N | 31E | 681878 | 24487 | 142 59 | 16 52 | 14 24 | 0 19 | 2.445 |
| 30 | 8 8 48.534 | 2551 | 65 22.41N | 42 1.39E | 65 | 0N | 45E | 681249 | 24488 | 143 14 | 17 2 | 14 24 | 0 19 | 2.463 |
| 31 | 8 8 51.069 | 2535 | 65 14.24N | 42 15.92E | 64 | 52N | 59E | 680625 | 24490 | 143 28 | 17 11 | 14 24 | 0 18 | 2.479 |
| 32 | 8 8 53.599 | 2529 | 65 6.86N | 42 30.26E | 64 | 44N | 13E | 680005 | 24491 | 143 42 | 17 21 | 14 24 | 0 18 | 2.484 |
| 33 | 8 8 56.123 | 2525 | 64 57.88N | 42 44.43E | 64 | 35N | 26E | 679388 | 24493 | 143 56 | 17 31 | 14 24 | 0 17 | 2.488 |
| 34 | 8 8 58.639 | 2515 | 64 49.70N | 42 58.39E | 64 | 27N | 40E | 678773 | 24494 | 144 10 | 17 41 | 14 24 | 0 17 | 2.498 |
| 35 | 8 9 1.153 | 2510 | 64 41.49N | 43 12.21E | 64 | 19N | 53E | 678160 | 24495 | 144 24 | 17 50 | 14 24 | 0 16 | 2.498 |
| 36 | 8 9 3.663 | 2518 | 64 33.28N | 43 25.85E | 64 | 11N | 6E | 677551 | 24497 | 144 37 | 18 0 | 14 24 | 0 15 | 2.503 |
| 37 | 8 9 6.168 | 2505 | 64 25.06N | 43 39.33E | 64 | 2N | 19E | 676943 | 24498 | 144 51 | 18 10 | 14 23 | 0 14 | 2.508 |
| 38 | 8 9 8.664 | 2496 | 64 16.85N | 43 52.62E | 63 | 54N | 32E | 676340 | 24500 | 145 4 | 18 19 | 14 23 | 0 14 | 2.517 |
| 39 | 8 9 11.158 | 2494 | 64 8.62N | 44 5.76E | 63 | 46N | 45E | 675739 | 24501 | 145 17 | 18 29 | 14 23 | 0 15 | 2.519 |
| 40 | 8 9 13.648 | 2490 | 64 0.38N | 44 18.75E | 63 | 38N | 58E | 675140 | 24503 | 145 29 | 18 39 | 14 22 | 0 15 | 2.523 |
| 41 | 8 9 16.139 | 2490 | 63 52.12N | 44 31.61E | 63 | 29N | 10E | 674542 | 24504 | 145 42 | 18 48 | 14 22 | 0 16 | 2.523 |
| 42 | 8 9 18.618 | 2480 | 63 43.88N | 44 44.28E | 63 | 21N | 22E | 673949 | 24505 | 145 55 | 18 58 | 14 21 | 0 17 | 2.534 |
| 43 | 8 9 21.095 | 2476 | 63 35.62N | 44 56.81E | 63 | 13N | 35E | 673358 | 24507 | 146 7 | 19 7 | 14 21 | 0 17 | 2.538 |
| 44 | 8 9 23.573 | 2479 | 63 27.34N | 45 9.22E | 63 | 5N | 47E | 672768 | 24508 | 146 19 | 19 17 | 14 20 | 0 20 | 2.535 |
| 45 | 8 9 26.049 | 2475 | 63 19.05N | 45 21.50E | 62 | 56N | 59E | 672180 | 24509 | 146 31 | 19 27 | 14 20 | 0 22 | 2.539 |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

FRAME EPHEMERIS

MISSION 1817-2

ID 43 LIST DATE 18MAY65 PAGE 14

| FRM | HR | MI | SEC | DTM | MILS | CAMERA | | | NADIR | | | FORMAT CENTER | | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | |
|-----|----|----|--------|-------|------|--------|-----|--------|-------|-----|------|---------------|--------|-------|----------|-------|---------|------|-------|------|-----|------|-------|
| | | | | | | DEG | MIN | LONG | DEG | MIN | LONG | DEG | MIN | DEG | | | | | | | | | MIN |
| 98 | 8 | 13 | 13.233 | 2325 | 49 | 40.28N | 58 | 1.86E | 49 | 15N | 58 | 17E | 625880 | 24618 | 158 | 46 | 34 | 3 | 14 | 35 | -0 | 18 | 2.782 |
| 89 | 8 | 13 | 10.908 | 2344 | 49 | 49.85N | 57 | 56.59E | 49 | 24N | 58 | 12E | 626266 | 24616 | 158 | 36 | 33 | 35 | 14 | 35 | -0 | 19 | 2.681 |
| 88 | 8 | 13 | 8.564 | 2434 | 49 | 57.88N | 57 | 51.24E | 49 | 33N | 58 | 7E | 626658 | 24616 | 158 | 36 | 33 | 35 | 14 | 35 | -0 | 20 | 2.581 |
| 87 | 8 | 13 | 6.131 | 2622 | 50 | 7.85N | 57 | 45.65E | 49 | 42N | 58 | 1E | 627867 | 24614 | 158 | 25 | 33 | 25 | 14 | 35 | -0 | 28 | 2.396 |
| 86 | 8 | 13 | 3.589 | 3165 | 50 | 16.92N | 57 | 39.58E | 49 | 52N | 57 | 56E | 627510 | 24613 | 158 | 18 | 33 | 13 | 14 | 35 | -0 | 28 | 1.985 |
| 85 | 8 | 13 | 0.344 | 75615 | 50 | 28.82N | 57 | 32.20E | 50 | 4N | 57 | 48E | 628048 | 24613 | 158 | 18 | 33 | 13 | 14 | 36 | -0 | 28 | 0.883 |
| 84 | 8 | 11 | 44.729 | 2330 | 55 | 9.71N | 54 | 12.87E | 54 | 45N | 54 | 37E | 641963 | 24580 | 155 | 9 | 28 | 23 | 14 | 58 | 0 | 38 | 2.697 |
| 83 | 8 | 11 | 42.398 | 2330 | 55 | 18.24N | 54 | 5.94E | 54 | 54N | 54 | 30E | 642422 | 24579 | 155 | 2 | 28 | 14 | 14 | 58 | 0 | 38 | 2.686 |
| 82 | 8 | 11 | 40.868 | 2339 | 55 | 26.76N | 53 | 58.95E | 55 | 2N | 54 | 16E | 642884 | 24578 | 154 | 55 | 28 | 5 | 14 | 57 | 0 | 38 | 2.684 |
| 81 | 8 | 11 | 37.729 | 2341 | 55 | 35.31N | 53 | 51.88E | 55 | 11N | 54 | 9E | 643344 | 24577 | 154 | 42 | 27 | 27 | 14 | 57 | 0 | 37 | 2.684 |
| 80 | 8 | 11 | 35.389 | 2339 | 55 | 43.86N | 53 | 44.75E | 55 | 19N | 54 | 16E | 643816 | 24576 | 154 | 42 | 27 | 47 | 14 | 57 | 0 | 37 | 2.684 |
| 79 | 8 | 11 | 33.058 | 2341 | 55 | 52.39N | 53 | 37.57E | 55 | 28N | 54 | 2E | 644285 | 24575 | 154 | 35 | 27 | 29 | 14 | 57 | 0 | 36 | 2.684 |
| 78 | 8 | 11 | 30.708 | 2345 | 56 | 0.92N | 53 | 30.33E | 55 | 36N | 53 | 55E | 644755 | 24574 | 154 | 28 | 27 | 29 | 14 | 56 | 0 | 35 | 2.679 |
| 77 | 8 | 11 | 28.363 | 2345 | 56 | 9.46N | 53 | 23.02E | 55 | 45N | 53 | 48E | 645228 | 24572 | 154 | 21 | 27 | 20 | 14 | 55 | 0 | 33 | 2.679 |
| 76 | 8 | 11 | 26.019 | 2349 | 56 | 17.99N | 53 | 15.65E | 55 | 53N | 53 | 41E | 645703 | 24571 | 154 | 14 | 27 | 11 | 14 | 55 | 0 | 32 | 2.675 |
| 75 | 8 | 11 | 23.669 | 2351 | 56 | 26.52N | 53 | 8.20E | 56 | 2N | 53 | 33E | 646182 | 24570 | 154 | 7 | 27 | 2 | 14 | 54 | 0 | 30 | 2.673 |
| 74 | 8 | 11 | 21.318 | 2360 | 56 | 35.05N | 53 | 0.70E | 56 | 18N | 53 | 26E | 646661 | 24569 | 153 | 59 | 26 | 53 | 14 | 54 | 0 | 28 | 2.662 |
| 73 | 8 | 11 | 18.958 | 2360 | 56 | 43.60N | 52 | 53.10E | 56 | 19N | 53 | 18E | 647144 | 24568 | 153 | 52 | 26 | 44 | 14 | 53 | 0 | 26 | 2.662 |
| 72 | 8 | 11 | 16.599 | 2355 | 56 | 52.15N | 52 | 45.44E | 56 | 27N | 53 | 11E | 647629 | 24567 | 153 | 45 | 26 | 34 | 14 | 53 | 0 | 24 | 2.658 |
| 71 | 8 | 11 | 14.243 | 2360 | 57 | 0.66N | 52 | 37.73E | 56 | 36N | 53 | 3E | 648115 | 24566 | 153 | 37 | 26 | 25 | 14 | 52 | 0 | 22 | 2.652 |
| 70 | 8 | 11 | 11.884 | 2365 | 57 | 9.19N | 52 | 29.95E | 56 | 44N | 52 | 56E | 648603 | 24564 | 153 | 30 | 26 | 16 | 14 | 52 | 0 | 20 | 2.657 |
| 69 | 8 | 11 | 9.519 | 2365 | 57 | 17.72N | 52 | 22.08E | 56 | 53N | 52 | 48E | 649095 | 24563 | 153 | 22 | 26 | 7 | 14 | 51 | 0 | 18 | 2.657 |
| 68 | 8 | 11 | 7.153 | 2370 | 57 | 26.24N | 52 | 14.15E | 57 | 19N | 52 | 24E | 649588 | 24562 | 153 | 14 | 25 | 58 | 14 | 50 | 0 | 17 | 2.651 |
| 67 | 8 | 11 | 4.783 | 2378 | 57 | 34.77N | 52 | 6.14E | 57 | 18N | 52 | 32E | 650084 | 24561 | 153 | 7 | 25 | 49 | 14 | 49 | 0 | 14 | 2.647 |
| 66 | 8 | 11 | 0.039 | 2376 | 57 | 51.82N | 51 | 49.89E | 57 | 27N | 52 | 16E | 651584 | 24558 | 152 | 43 | 25 | 21 | 14 | 47 | 0 | 11 | 2.644 |
| 65 | 8 | 11 | 2.413 | 2374 | 57 | 43.29N | 51 | 58.04E | 57 | 19N | 52 | 24E | 652088 | 24556 | 152 | 59 | 25 | 40 | 14 | 48 | 0 | 13 | 2.644 |
| 64 | 8 | 10 | 57.663 | 2380 | 58 | 0.34N | 51 | 41.65E | 57 | 36N | 52 | 8E | 651584 | 24558 | 152 | 43 | 25 | 21 | 14 | 47 | 0 | 11 | 2.644 |
| 63 | 8 | 10 | 55.283 | 2385 | 58 | 8.86N | 51 | 33.33E | 57 | 44N | 52 | 0E | 652088 | 24556 | 152 | 35 | 25 | 12 | 14 | 46 | 0 | 7 | 2.634 |
| 62 | 8 | 10 | 52.898 | 2390 | 58 | 17.39N | 51 | 24.92E | 57 | 53N | 51 | 51E | 652596 | 24555 | 152 | 27 | 25 | 3 | 14 | 45 | 0 | 6 | 2.629 |
| 61 | 8 | 10 | 50.509 | 2385 | 58 | 25.93N | 51 | 16.42E | 58 | 18N | 51 | 35E | 653106 | 24554 | 152 | 18 | 24 | 54 | 14 | 44 | 0 | 4 | 2.634 |
| 60 | 8 | 10 | 48.123 | 2390 | 58 | 34.44N | 51 | 7.86E | 58 | 18N | 51 | 43E | 653617 | 24553 | 152 | 10 | 24 | 45 | 14 | 44 | 0 | 2 | 2.629 |
| 59 | 8 | 10 | 45.733 | 2399 | 58 | 42.95N | 50 | 59.22E | 58 | 18N | 51 | 26E | 654131 | 24552 | 152 | 2 | 24 | 35 | 14 | 43 | 0 | 1 | 2.619 |
| 58 | 8 | 10 | 43.334 | 2405 | 59 | 0.82N | 50 | 50.46E | 58 | 27N | 51 | 17E | 654649 | 24550 | 151 | 53 | 24 | 26 | 14 | 42 | 0 | 1 | 2.617 |
| 57 | 8 | 10 | 40.934 | 2405 | 59 | 8.02N | 50 | 41.63E | 58 | 35N | 51 | 9E | 655168 | 24549 | 151 | 45 | 24 | 17 | 14 | 39 | -0 | 2 | 2.613 |
| 56 | 8 | 10 | 38.528 | 2415 | 59 | 8.55N | 50 | 32.69E | 58 | 44N | 51 | 0E | 655690 | 24548 | 151 | 36 | 24 | 7 | 14 | 37 | -0 | 4 | 2.602 |
| 55 | 8 | 10 | 36.113 | 2420 | 59 | 17.10N | 50 | 23.64E | 58 | 53N | 50 | 51E | 656215 | 24547 | 151 | 27 | 23 | 58 | 14 | 36 | -0 | 5 | 2.596 |
| 54 | 8 | 10 | 33.693 | 2430 | 59 | 25.66N | 50 | 14.49E | 59 | 1N | 50 | 42E | 656744 | 24545 | 151 | 18 | 23 | 49 | 14 | 34 | -0 | 7 | 2.586 |
| 53 | 8 | 10 | 31.284 | 2439 | 59 | 34.24N | 50 | 5.22E | 59 | 10N | 50 | 33E | 657277 | 24544 | 151 | 9 | 23 | 39 | 14 | 32 | -0 | 8 | 2.576 |
| 52 | 8 | 10 | 28.824 | 2439 | 59 | 42.85N | 49 | 55.84E | 59 | 19N | 50 | 23E | 657813 | 24543 | 151 | 0 | 23 | 30 | 14 | 30 | -0 | 10 | 2.519 |
| 51 | 8 | 10 | 26.330 | 2556 | 59 | 51.63N | 49 | 46.15E | 59 | 27N | 50 | 14E | 658363 | 24542 | 150 | 51 | 23 | 20 | 14 | 28 | -0 | 11 | 2.458 |
| 50 | 8 | 10 | 23.774 | 2731 | 60 | 0.61N | 49 | 36.13E | 59 | 36N | 50 | 4E | 658929 | 24540 | 150 | 41 | 23 | 10 | 14 | 26 | -0 | 12 | 2.430 |
| 49 | 8 | 10 | 21.043 | 3255 | 60 | 10.20N | 49 | 25.31E | 59 | 46N | 49 | 53E | 659536 | 24539 | 150 | 30 | 23 | 0 | 14 | 24 | -0 | 14 | 1.930 |
| 48 | 8 | 10 | 17.788 | 46794 | 60 | 21.60N | 49 | 12.28E | 59 | 57N | 49 | 41E | 660261 | 24537 | 150 | 18 | 22 | 47 | 14 | 22 | -0 | 15 | 0.134 |
| 47 | 8 | 9 | 30.994 | 2476 | 63 | 2.42N | 45 | 45.65E | 62 | 40N | 46 | 22E | 671010 | 24512 | 146 | 55 | 19 | 46 | 14 | 18 | 0 | 26 | 2.538 |
| 46 | 8 | 9 | 28.519 | 2470 | 63 | 10.75N | 45 | 33.62E | 62 | 48N | 46 | 10E | 671595 | 24511 | 146 | 43 | 19 | 36 | 14 | 19 | 0 | 24 | 2.544 |

TOP SECRET

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| FRM | HR | MI | SEC | DTIM | MISS | DEG | LAT | DEG | MIN | LONG | DEG | LAT | DEG | MIN | LONG | ALTITUDE | FEET | F/S | VELOC | DEG | MI | DEG | SUN/ | MI | PITCH | DEG | MIN | ROLL | DEG | MIN | YAW | DEG | MIN | SCAN | RATE |
|-----|----|----|--------|------|------|--------|-----|--------|-----|------|-----|-----|--------|-------|------|----------|------|-----|-------|-----|----|-----|------|-------|-------|-----|-----|------|-----|-----|-----|-----|-----|------|------|
| 91 | 8 | 13 | 15.538 | 2305 | 49 | 31.58N | 58 | 7.06E | 49 | 7N | 58 | 23E | 625498 | 24619 | 158 | 58 | 34 | 12 | 14 | 35 | -0 | 17 | ND | 2.726 | | | | | | | | | | | |
| 92 | 8 | 13 | 17.824 | 2286 | 49 | 22.95N | 58 | 12.17E | 48 | 58N | 58 | 28E | 625123 | 24620 | 158 | 55 | 34 | 20 | 14 | 36 | -0 | 15 | ND | 2.749 | | | | | | | | | | | |
| 93 | 8 | 13 | 20.104 | 2280 | 49 | 14.33N | 58 | 17.24E | 48 | 49N | 58 | 33E | 624749 | 24621 | 159 | 0 | 34 | 29 | 14 | 37 | -0 | 13 | ND | 2.756 | | | | | | | | | | | |
| 94 | 8 | 13 | 22.384 | 2279 | 49 | 5.71N | 58 | 22.27E | 48 | 41N | 58 | 38E | 624378 | 24622 | 159 | 5 | 34 | 38 | 14 | 38 | -0 | 11 | ND | 2.757 | | | | | | | | | | | |
| 95 | 8 | 13 | 24.653 | 2270 | 48 | 57.13N | 58 | 27.26E | 48 | 32N | 58 | 43E | 624010 | 24622 | 159 | 9 | 34 | 46 | 14 | 40 | -0 | 9 | ND | 2.768 | | | | | | | | | | | |
| 96 | 8 | 13 | 26.918 | 2265 | 48 | 48.56N | 58 | 32.20E | 48 | 24N | 58 | 48E | 623644 | 24624 | 159 | 14 | 34 | 55 | 14 | 41 | -0 | 7 | ND | 2.774 | | | | | | | | | | | |
| 97 | 8 | 13 | 29.184 | 2265 | 48 | 39.98N | 58 | 41.99E | 48 | 15N | 58 | 53E | 623282 | 24624 | 159 | 18 | 35 | 4 | 14 | 44 | -0 | 5 | ND | 2.774 | | | | | | | | | | | |
| 98 | 8 | 13 | 31.453 | 2270 | 48 | 31.38N | 58 | 46.83E | 48 | 6N | 58 | 58E | 622921 | 24625 | 159 | 23 | 35 | 13 | 14 | 46 | -0 | 3 | ND | 2.768 | | | | | | | | | | | |
| 99 | 8 | 13 | 33.714 | 2260 | 48 | 22.80N | 58 | 51.63E | 47 | 58N | 59 | 3E | 622562 | 24626 | 159 | 27 | 35 | 21 | 14 | 49 | -0 | 1 | ND | 2.780 | | | | | | | | | | | |
| 100 | 8 | 13 | 35.969 | 2255 | 48 | 14.25N | 58 | 56.41E | 47 | 49N | 59 | 7E | 622207 | 24627 | 159 | 32 | 35 | 30 | 14 | 51 | 0 | 0 | ND | 2.786 | | | | | | | | | | | |
| 101 | 8 | 13 | 38.229 | 2260 | 48 | 5.67N | 58 | 0.14E | 47 | 41N | 59 | 12E | 621853 | 24628 | 159 | 36 | 35 | 39 | 14 | 54 | 0 | 2 | ND | 2.780 | | | | | | | | | | | |
| 102 | 8 | 13 | 40.483 | 2255 | 47 | 57.11N | 59 | 1.14E | 47 | 32N | 59 | 17E | 621501 | 24628 | 159 | 40 | 35 | 47 | 14 | 56 | 0 | 4 | ND | 2.786 | | | | | | | | | | | |
| 103 | 8 | 13 | 42.738 | 2255 | 47 | 48.54N | 59 | 5.85E | 47 | 23N | 59 | 22E | 621152 | 24629 | 159 | 45 | 35 | 56 | 14 | 58 | 0 | 5 | ND | 2.786 | | | | | | | | | | | |
| 104 | 8 | 13 | 44.988 | 2250 | 47 | 39.99N | 59 | 10.52E | 47 | 15N | 59 | 26E | 620805 | 24630 | 159 | 49 | 36 | 5 | 15 | 1 | 0 | 7 | ND | 2.793 | | | | | | | | | | | |
| 105 | 8 | 13 | 47.233 | 2245 | 47 | 31.45N | 59 | 15.15E | 47 | 6N | 59 | 31E | 620461 | 24631 | 159 | 53 | 36 | 13 | 15 | 2 | 0 | 8 | ND | 2.799 | | | | | | | | | | | |
| 106 | 8 | 13 | 49.479 | 2245 | 47 | 22.91N | 59 | 19.76E | 46 | 58N | 59 | 36E | 620119 | 24632 | 159 | 57 | 36 | 22 | 15 | 4 | 0 | 10 | ND | 2.799 | | | | | | | | | | | |
| 107 | 8 | 13 | 51.725 | 2246 | 47 | 14.36N | 59 | 24.34E | 46 | 49N | 59 | 40E | 619778 | 24632 | 160 | 2 | 36 | 30 | 15 | 6 | 0 | 12 | ND | 2.798 | | | | | | | | | | | |
| 108 | 8 | 13 | 53.974 | 2249 | 47 | 5.79N | 59 | 28.89E | 46 | 48N | 59 | 45E | 619440 | 24633 | 160 | 6 | 36 | 39 | 15 | 8 | 0 | 13 | ND | 2.794 | | | | | | | | | | | |

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TOP SECRET

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| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | LONG | DEG | MIN | DEG | MIN | ALTITUDE | VELOC | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN |
|-----|----|----|--------|------|-----|--------|-----|--------|-----|-----|-----|-----|----------|-------|-----|----|-----|-----|-------|------|-----|-------|
| | | | | MILS | MIN | MIN | MIN | MIN | MIN | MIN | MIN | MIN | FEET | F/S | MI | MI | MI | MIN | MIN | MIN | MIN | RATE |
| 1 | 9 | 21 | 18.403 | 4735 | 38 | 13.30N | 108 | 54.99W | 38 | 54N | 108 | 37W | 985185 | 23807 | 16 | 21 | -48 | 53 | ND | ND | ND | 1.327 |
| 2 | 9 | 21 | 23.139 | 4100 | 38 | 31.12N | 108 | 48.33W | 39 | 12N | 108 | 38W | 983833 | 23818 | 16 | 26 | -48 | 36 | ND | ND | ND | 1.327 |
| 3 | 9 | 21 | 27.238 | 3950 | 38 | 46.54N | 108 | 42.51W | 39 | 28N | 108 | 24W | 982662 | 23813 | 16 | 31 | -48 | 22 | ND | ND | ND | 1.532 |
| 4 | 9 | 21 | 31.188 | 3695 | 39 | 1.39N | 108 | 36.86W | 39 | 42N | 108 | 18W | 981532 | 23815 | 16 | 36 | -48 | 8 | ND | ND | ND | 1.591 |
| 5 | 9 | 21 | 35.083 | 3865 | 39 | 16.03N | 108 | 31.24W | 39 | 57N | 108 | 13W | 980417 | 23818 | 16 | 41 | -47 | 54 | ND | ND | ND | 1.613 |
| 6 | 9 | 21 | 38.948 | 3865 | 39 | 30.55N | 108 | 25.62W | 40 | 11N | 108 | 7W | 979318 | 23820 | 16 | 46 | -47 | 40 | ND | ND | ND | 1.626 |
| 7 | 9 | 21 | 42.813 | 3865 | 39 | 45.07N | 108 | 19.95W | 40 | 26N | 108 | 1W | 978201 | 23822 | 16 | 51 | -47 | 26 | ND | ND | ND | 1.630 |
| 8 | 9 | 21 | 46.668 | 3855 | 39 | 59.54N | 108 | 14.24W | 40 | 40N | 107 | 55W | 977094 | 23825 | 16 | 56 | -47 | 13 | ND | ND | ND | 1.630 |
| 9 | 9 | 21 | 50.510 | 3841 | 40 | 13.96N | 108 | 8.51W | 40 | 55N | 107 | 58W | 975989 | 23827 | 17 | 1 | -46 | 59 | ND | ND | ND | 1.636 |
| 0 | 9 | 21 | 54.344 | 3834 | 40 | 28.34N | 108 | 2.75W | 41 | 9N | 107 | 44W | 974886 | 23830 | 17 | 6 | -46 | 45 | ND | ND | ND | 1.639 |
| 1 | 9 | 21 | 58.169 | 3826 | 40 | 42.69N | 107 | 56.95W | 41 | 23N | 107 | 38W | 973784 | 23832 | 17 | 11 | -46 | 31 | ND | ND | ND | 1.642 |
| 2 | 9 | 22 | 1.998 | 3829 | 40 | 57.04N | 107 | 51.09W | 41 | 37N | 107 | 32W | 972681 | 23834 | 17 | 16 | -46 | 18 | ND | ND | ND | 1.641 |
| 3 | 9 | 22 | 5.813 | 3815 | 41 | 11.34N | 107 | 45.20W | 41 | 52N | 107 | 26W | 971588 | 23837 | 17 | 21 | -46 | 4 | ND | ND | ND | 1.647 |

HANDLE VIA
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PASS 93D FWD 3MAR65

FRAME EPHEMERIS MISSION 1017-2

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| FRM | Z TIME | HR | MI | SEC | DTIM | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | ALTITUDE | VELOC | DEG | MI | DEG | MIN | PITCH | ROLL | YAW | SCAN | |
|-----|--------|----|--------|------|------|--------|--------|--------|--------|-----|------|-----|--------|----------|-------|-----|----|-----|-----|-------|------|-----|-------|-------|
| | | | | | MILS | LAT | LONG | LAT | LONG | LAT | LONG | LAT | LONG | FEET | F/S | MI | MI | MI | MI | MIN | MIN | MIN | RATE | |
| 1 | 17 | 20 | 18 | 153 | 0 | 19 | 46.36N | 67 | 14.26W | 19 | 22N | 67 | 7W | 597021 | 24687 | 167 | 21 | 62 | 18 | 14 | 20 | ND | 2.178 | |
| 2 | 17 | 20 | 21.038 | 2885 | 19 | 34.88N | 67 | 11.55W | 19 | 11N | 67 | 4W | 597186 | 24687 | 167 | 23 | 62 | 28 | 14 | 24 | 0 | 8 | ND | 2.178 |
| 3 | 17 | 20 | 23.519 | 2480 | 19 | 25.01N | 67 | 9.22W | 19 | 1N | 67 | 2W | 597330 | 24686 | 167 | 24 | 62 | 36 | 14 | 26 | 0 | 7 | ND | 2.534 |
| 4 | 17 | 20 | 25.858 | 2340 | 19 | 15.70N | 67 | 7.02W | 18 | 51N | 67 | 0W | 597471 | 24686 | 167 | 25 | 62 | 44 | 14 | 28 | 0 | 6 | ND | 2.685 |
| 5 | 17 | 20 | 28.139 | 2280 | 19 | 6.62N | 67 | 4.89W | 18 | 42N | 66 | 57W | 597610 | 24686 | 167 | 26 | 62 | 51 | 14 | 30 | 0 | 7 | ND | 2.756 |
| 6 | 17 | 20 | 30.394 | 2255 | 18 | 57.65N | 67 | 2.79W | 18 | 33N | 66 | 55W | 597750 | 24685 | 167 | 27 | 62 | 59 | 14 | 32 | 0 | 8 | ND | 2.799 |
| 7 | 17 | 20 | 32.639 | 2245 | 18 | 48.71N | 67 | 0.70W | 18 | 24N | 66 | 53W | 597893 | 24685 | 167 | 28 | 62 | 52 | 14 | 34 | 0 | 9 | ND | 2.805 |
| 8 | 17 | 20 | 34.878 | 2240 | 18 | 39.79N | 66 | 58.62W | 18 | 15N | 66 | 51W | 598038 | 24685 | 167 | 29 | 63 | 14 | 14 | 35 | 0 | 10 | ND | 2.811 |
| 9 | 17 | 20 | 37.113 | 2235 | 18 | 30.89N | 66 | 56.55W | 18 | 6N | 66 | 49W | 598185 | 24684 | 167 | 30 | 63 | 21 | 14 | 36 | 0 | 11 | ND | 2.818 |
| 10 | 17 | 20 | 39.344 | 2230 | 18 | 22.01N | 66 | 54.49W | 17 | 57N | 66 | 47W | 598335 | 24684 | 167 | 31 | 63 | 28 | 14 | 37 | 0 | 11 | ND | 2.823 |
| 11 | 17 | 20 | 41.569 | 2226 | 18 | 13.15N | 66 | 52.44W | 17 | 49N | 66 | 45W | 598487 | 24684 | 167 | 32 | 63 | 35 | 14 | 37 | 0 | 12 | ND | 2.829 |
| 12 | 17 | 20 | 43.798 | 2229 | 18 | 4.27N | 66 | 50.39W | 17 | 40N | 66 | 43W | 598642 | 24683 | 167 | 33 | 63 | 43 | 14 | 37 | 0 | 13 | ND | 2.834 |
| 13 | 17 | 20 | 46.023 | 2225 | 17 | 55.41N | 66 | 48.34W | 17 | 31N | 66 | 41W | 598799 | 24683 | 167 | 34 | 63 | 50 | 14 | 37 | 0 | 13 | ND | 2.830 |
| 14 | 17 | 20 | 48.243 | 2220 | 17 | 46.57N | 66 | 46.31W | 17 | 22N | 66 | 39W | 598958 | 24683 | 167 | 35 | 63 | 57 | 14 | 37 | 0 | 14 | ND | 2.830 |
| 15 | 17 | 20 | 50.463 | 2220 | 17 | 37.73N | 66 | 44.28W | 17 | 13N | 66 | 37W | 599120 | 24682 | 167 | 36 | 64 | 4 | 14 | 37 | 0 | 14 | ND | 2.830 |
| 16 | 17 | 20 | 52.684 | 2220 | 17 | 28.88N | 66 | 42.25W | 17 | 4N | 66 | 35W | 599285 | 24682 | 167 | 37 | 64 | 11 | 14 | 37 | 0 | 14 | ND | 2.830 |
| 17 | 17 | 20 | 54.903 | 2220 | 17 | 20.04N | 66 | 40.23W | 16 | 55N | 66 | 33W | 599453 | 24682 | 167 | 38 | 64 | 18 | 14 | 36 | 0 | 15 | ND | 2.835 |
| 18 | 17 | 20 | 57.119 | 2216 | 17 | 11.21N | 66 | 38.22W | 16 | 47N | 66 | 31W | 599622 | 24681 | 167 | 39 | 64 | 25 | 14 | 36 | 0 | 15 | ND | 2.832 |
| 19 | 17 | 20 | 59.338 | 2219 | 17 | 2.37N | 66 | 36.21W | 16 | 38N | 66 | 29W | 599796 | 24681 | 167 | 40 | 64 | 32 | 14 | 35 | 0 | 16 | ND | 2.830 |
| 20 | 17 | 21 | 1.559 | 2220 | 16 | 53.52N | 66 | 34.20W | 16 | 29N | 66 | 27W | 600149 | 24680 | 167 | 42 | 64 | 39 | 14 | 34 | 0 | 16 | ND | 2.830 |
| 21 | 17 | 21 | 3.778 | 2220 | 16 | 44.68N | 66 | 32.19W | 16 | 20N | 66 | 25W | 600328 | 24680 | 167 | 42 | 64 | 46 | 14 | 34 | 0 | 17 | ND | 2.842 |
| 22 | 17 | 21 | 5.989 | 2211 | 16 | 35.87N | 66 | 30.20W | 16 | 11N | 66 | 23W | 600512 | 24679 | 167 | 43 | 65 | 5 | 14 | 32 | 0 | 17 | ND | 2.829 |
| 23 | 17 | 21 | 8.210 | 2221 | 16 | 27.02N | 66 | 28.20W | 16 | 2N | 66 | 21W | 600698 | 24679 | 167 | 44 | 65 | 7 | 14 | 32 | 0 | 17 | ND | 2.833 |
| 24 | 17 | 21 | 10.429 | 2218 | 16 | 18.18N | 66 | 26.21W | 15 | 54N | 66 | 19W | | | | | | | | | | | | |

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| PASS | 95D FWD | 3MAR65 | FRM | 2 TIME | HR MI | SEC | DTIM | MILS | DEG | LAT | DEG | MIN | LONG | DEG | MIN | LONG | ALTITUDE | VELOC | F/S | DEG | MI | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN | |
|------|---------|--------|--------|--------|-------|--------|------|--------|-----|-----|-----|-----|--------|-------|-----|------|----------|-------|-----|-----|----|-----|-------|-----|----|-------|------|-----|------|------|
| | | | | | | | | | | | | | | | | | FEET | F/5 | | | | | | | | DEG | MIN | DEG | MIN | RATE |
| 1 | 20 | 15 | 23.023 | 0 | 38 | 22.42N | 118 | 2.64W | 37 | 57N | 117 | 52W | 681736 | 24674 | 163 | 31 | 45 | 18 | 14 | 54 | -0 | 2 | 2.027 | | | | | | | |
| 2 | 20 | 15 | 26.122 | 0 | 38 | 18.34N | 117 | 58.11W | 37 | 45N | 117 | 47W | 681479 | 24675 | 163 | 34 | 45 | 30 | 14 | 54 | -0 | 2 | 2.027 | | | | | | | |
| 3 | 20 | 15 | 28.689 | 0 | 38 | 0.33N | 117 | 54.38W | 37 | 35N | 117 | 44W | 681270 | 24675 | 163 | 37 | 45 | 40 | 14 | 54 | -0 | 2 | 2.448 | | | | | | | |
| 4 | 20 | 15 | 31.053 | 0 | 37 | 51.11N | 117 | 58.97W | 37 | 26N | 117 | 48W | 681879 | 24676 | 163 | 40 | 45 | 49 | 14 | 55 | -0 | 1 | 2.659 | | | | | | | |
| 5 | 20 | 15 | 33.363 | 0 | 37 | 42.09N | 117 | 47.65W | 37 | 17N | 117 | 37W | 680896 | 24676 | 163 | 43 | 45 | 57 | 14 | 55 | -0 | 1 | 2.719 | | | | | | | |
| 6 | 20 | 15 | 35.617 | 0 | 37 | 33.30N | 117 | 44.42W | 37 | 0N | 117 | 34W | 680728 | 24676 | 163 | 46 | 46 | 6 | 14 | 55 | -0 | 1 | 2.788 | | | | | | | |
| 7 | 20 | 15 | 37.862 | 0 | 37 | 24.53N | 117 | 41.22W | 36 | 0N | 117 | 31W | 680547 | 24677 | 163 | 48 | 46 | 14 | 14 | 55 | -0 | 1 | 2.799 | | | | | | | |
| 8 | 20 | 15 | 40.097 | 0 | 37 | 15.80N | 117 | 38.05W | 36 | 51N | 117 | 27W | 680377 | 24677 | 163 | 51 | 46 | 23 | 14 | 55 | -0 | 0 | 2.813 | | | | | | | |
| 9 | 20 | 15 | 42.336 | 0 | 37 | 7.86N | 117 | 34.89W | 36 | 42N | 117 | 24W | 680209 | 24678 | 163 | 53 | 46 | 31 | 14 | 54 | -0 | 0 | 2.805 | | | | | | | |
| 0 | 20 | 15 | 44.582 | 0 | 36 | 58.28N | 117 | 31.73W | 36 | 33N | 117 | 21W | 680042 | 24678 | 163 | 56 | 46 | 40 | 14 | 54 | -0 | 0 | 2.798 | | | | | | | |
| 1 | 20 | 15 | 46.808 | 0 | 36 | 49.58N | 117 | 28.62W | 36 | 25N | 117 | 18W | 599879 | 24678 | 163 | 59 | 46 | 48 | 14 | 54 | -0 | 0 | 2.824 | | | | | | | |
| 2 | 20 | 15 | 49.032 | 0 | 36 | 40.89N | 117 | 25.52W | 36 | 16N | 117 | 15W | 599719 | 24679 | 164 | 1 | 46 | 57 | 14 | 53 | -0 | 0 | 2.824 | | | | | | | |
| 3 | 20 | 15 | 51.257 | 0 | 36 | 32.19N | 117 | 22.43W | 36 | 7N | 117 | 12W | 599561 | 24679 | 164 | 4 | 47 | 5 | 14 | 53 | -0 | 0 | 2.824 | | | | | | | |
| 4 | 20 | 15 | 53.478 | 0 | 36 | 23.50N | 117 | 19.36W | 35 | 59N | 117 | 9W | 599406 | 24680 | 164 | 6 | 47 | 14 | 14 | 53 | -0 | 0 | 2.830 | | | | | | | |
| 5 | 20 | 15 | 55.697 | 0 | 36 | 14.82N | 117 | 16.31W | 35 | 50N | 117 | 6W | 599253 | 24680 | 164 | 8 | 47 | 22 | 14 | 52 | -0 | 0 | 2.830 | | | | | | | |
| 6 | 20 | 15 | 57.912 | 0 | 36 | 6.15N | 117 | 13.28W | 35 | 41N | 117 | 3W | 599102 | 24680 | 164 | 11 | 47 | 30 | 14 | 52 | -0 | 0 | 2.837 | | | | | | | |
| 7 | 20 | 16 | 0.132 | 0 | 35 | 57.46N | 117 | 10.25W | 35 | 33N | 117 | 0W | 598954 | 24681 | 164 | 13 | 47 | 39 | 14 | 51 | -0 | 0 | 2.830 | | | | | | | |
| 8 | 20 | 16 | 2.353 | 0 | 35 | 48.77N | 117 | 7.24W | 35 | 24N | 116 | 57W | 598808 | 24681 | 164 | 16 | 47 | 47 | 14 | 51 | -0 | 0 | 2.830 | | | | | | | |
| 9 | 20 | 16 | 4.572 | 0 | 35 | 40.08N | 117 | 4.24W | 35 | 15N | 116 | 54W | 598665 | 24681 | 164 | 18 | 47 | 55 | 14 | 50 | -0 | 0 | 2.830 | | | | | | | |
| 0 | 20 | 16 | 6.787 | 0 | 35 | 31.48N | 117 | 1.26W | 35 | 7N | 116 | 51W | 598524 | 24682 | 164 | 21 | 48 | 4 | 14 | 49 | -0 | 0 | 2.837 | | | | | | | |
| 1 | 20 | 16 | 9.002 | 0 | 35 | 22.72N | 116 | 58.29W | 34 | 58N | 116 | 48W | 598385 | 24682 | 164 | 23 | 48 | 12 | 14 | 48 | -0 | 0 | 2.837 | | | | | | | |
| 2 | 20 | 16 | 11.218 | 0 | 35 | 14.04N | 116 | 55.33W | 34 | 49N | 116 | 45W | 598248 | 24682 | 164 | 25 | 48 | 20 | 14 | 48 | -0 | 1 | 2.835 | | | | | | | |
| 3 | 20 | 16 | 13.433 | 0 | 35 | 5.36N | 116 | 52.39W | 34 | 41N | 116 | 42W | 598115 | 24683 | 164 | 28 | 48 | 29 | 14 | 47 | -0 | 1 | 2.838 | | | | | | | |
| 4 | 20 | 16 | 15.638 | 0 | 34 | 56.71N | 116 | 49.47W | 34 | 32N | 116 | 40W | 597983 | 24683 | 164 | 30 | 48 | 37 | 14 | 47 | -0 | 1 | 2.850 | | | | | | | |
| 5 | 20 | 16 | 17.853 | 0 | 34 | 48.03N | 116 | 46.55W | 34 | 23N | 116 | 37W | 597854 | 24683 | 164 | 32 | 48 | 45 | 14 | 46 | -0 | 1 | 2.837 | | | | | | | |

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TOP SECRET

HANDLE VIA

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FRAME EPHEMERIS

MISSION 1017-2

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| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN | | | |
|-----|------|----|--------|------|-----|--------|-----|--------|-----|------|-----|------|--------|-------|----------|-------|---------|------|-----|----|-----|----|-------|-------|-----|------|-----|-----|------|
| 2 | TIME | | | MILS | LAT | NADIR | LAT | LONG | LAT | LONG | LAT | LONG | LAT | LONG | ALTITUDE | VELOC | AZIMUTH | SUN/ | | | | | DEG | MIN | DEG | MIN | DEG | MIN | RATE |
| 1 | 23 | 7 | 36.151 | 0 | 66 | 4.15N | 173 | 58.92E | 65 | 41N | 174 | 44E | 678146 | 24494 | 141 | 58 | 15 | 54 | 14 | 57 | -0 | 22 | ND | 1.868 | | | | | |
| 2 | 23 | 7 | 39.516 | 3364 | 65 | 53.48N | 174 | 19.28E | 65 | 38N | 175 | 4E | 677344 | 24496 | 142 | 18 | 16 | 7 | 14 | 59 | -0 | 22 | ND | 1.868 | | | | | |
| 3 | 23 | 7 | 42.386 | 2790 | 65 | 44.59N | 174 | 35.94E | 65 | 21N | 175 | 20E | 676880 | 24497 | 142 | 34 | 16 | 18 | 14 | 59 | -0 | 21 | ND | 2.252 | | | | | |
| 4 | 23 | 7 | 44.925 | 2620 | 65 | 36.22N | 174 | 51.41E | 65 | 12N | 175 | 35E | 676860 | 24499 | 142 | 50 | 16 | 29 | 15 | 0 | -0 | 20 | ND | 2.398 | | | | | |
| 5 | 23 | 7 | 47.471 | 2545 | 65 | 28.85N | 175 | 6.27E | 65 | 4N | 175 | 49E | 675859 | 24500 | 143 | 4 | 16 | 39 | 15 | 1 | -0 | 20 | ND | 2.469 | | | | | |
| 6 | 23 | 7 | 49.980 | 2510 | 65 | 19.98N | 175 | 20.77E | 64 | 56N | 176 | 3E | 674867 | 24501 | 143 | 19 | 16 | 48 | 15 | 1 | -0 | 19 | ND | 2.503 | | | | | |
| 7 | 23 | 7 | 52.472 | 2491 | 65 | 11.94N | 175 | 35.01E | 64 | 48N | 176 | 17E | 674281 | 24503 | 143 | 33 | 16 | 58 | 15 | 2 | -0 | 18 | ND | 2.522 | | | | | |
| 8 | 23 | 7 | 54.955 | 2484 | 65 | 3.90N | 175 | 49.06E | 64 | 40N | 176 | 31E | 673698 | 24504 | 143 | 47 | 17 | 8 | 15 | 2 | -0 | 17 | ND | 2.529 | | | | | |
| 9 | 23 | 7 | 57.425 | 2470 | 64 | 55.88N | 176 | 2.89E | 64 | 32N | 176 | 44E | 673120 | 24505 | 144 | 0 | 17 | 18 | 15 | 3 | -0 | 16 | ND | 2.544 | | | | | |
| 10 | 23 | 7 | 59.880 | 2455 | 64 | 47.88N | 176 | 16.49E | 64 | 24N | 177 | 57E | 672547 | 24507 | 144 | 14 | 17 | 27 | 15 | 3 | -0 | 15 | ND | 2.559 | | | | | |
| 11 | 23 | 8 | 2.335 | 2455 | 64 | 39.86N | 176 | 29.95E | 64 | 16N | 177 | 11E | 671976 | 24509 | 144 | 40 | 17 | 46 | 15 | 3 | -0 | 14 | ND | 2.565 | | | | | |
| 12 | 23 | 8 | 4.785 | 2450 | 64 | 31.84N | 176 | 43.25E | 64 | 8N | 177 | 23E | 671407 | 24509 | 144 | 40 | 17 | 46 | 15 | 3 | -0 | 14 | ND | 2.570 | | | | | |
| 13 | 23 | 8 | 7.230 | 2445 | 64 | 23.81N | 176 | 56.39E | 64 | 0N | 177 | 36E | 670841 | 24511 | 144 | 53 | 17 | 56 | 15 | 3 | -0 | 13 | ND | 2.580 | | | | | |
| 14 | 23 | 8 | 9.665 | 2435 | 64 | 15.79N | 177 | 9.34E | 63 | 52N | 177 | 49E | 670279 | 24512 | 145 | 6 | 18 | 5 | 15 | 3 | -0 | 11 | ND | 2.580 | | | | | |
| 15 | 23 | 8 | 12.101 | 2435 | 64 | 7.75N | 177 | 22.17E | 63 | 43N | 178 | 1E | 669718 | 24513 | 145 | 18 | 18 | 15 | 15 | 3 | -0 | 10 | ND | 2.580 | | | | | |
| 16 | 23 | 8 | 14.535 | 2435 | 63 | 59.69N | 177 | 34.86E | 63 | 35N | 178 | 14E | 669158 | 24515 | 145 | 31 | 18 | 24 | 15 | 3 | -0 | 9 | ND | 2.580 | | | | | |
| 17 | 23 | 8 | 16.966 | 2431 | 63 | 51.62N | 177 | 47.40E | 63 | 27N | 178 | 26E | 668601 | 24516 | 145 | 43 | 18 | 34 | 15 | 3 | -0 | 7 | ND | 2.585 | | | | | |
| 18 | 23 | 8 | 19.391 | 2424 | 63 | 43.55N | 177 | 59.79E | 63 | 19N | 178 | 38E | 668047 | 24517 | 145 | 55 | 18 | 43 | 15 | 3 | -0 | 6 | ND | 2.592 | | | | | |
| 19 | 23 | 8 | 21.816 | 2426 | 63 | 35.46N | 178 | 12.06E | 63 | 11N | 178 | 50E | 667494 | 24518 | 146 | 8 | 18 | 53 | 15 | 3 | -0 | 6 | ND | 2.590 | | | | | |
| 20 | 23 | 8 | 24.235 | 2419 | 63 | 27.37N | 178 | 24.18E | 63 | 3N | 179 | 2E | 666944 | 24520 | 146 | 19 | 19 | 2 | 15 | 3 | -0 | 4 | ND | 2.597 | | | | | |
| 21 | 23 | 8 | 26.650 | 2415 | 63 | 19.27N | 178 | 36.16E | 62 | 55N | 179 | 13E | 666396 | 24521 | 146 | 31 | 19 | 12 | 15 | 3 | -0 | 3 | ND | 2.602 | | | | | |
| 22 | 23 | 8 | 29.065 | 2415 | 63 | 11.16N | 178 | 48.02E | 62 | 47N | 179 | 25E | 665850 | 24522 | 146 | 43 | 19 | 21 | 15 | 3 | -0 | 1 | ND | 2.602 | | | | | |
| 23 | 23 | 8 | 31.480 | 2415 | 63 | 3.03N | 178 | 59.77E | 62 | 39N | 179 | 36E | 665306 | 24524 | 146 | 54 | 19 | 31 | 15 | 3 | -0 | 0 | ND | 2.602 | | | | | |
| 24 | 23 | 8 | 33.880 | 2400 | 62 | 54.93N | 179 | 11.33E | 62 | 31N | 179 | 48E | 664766 | 24525 | 147 | 6 | 19 | 40 | 15 | 2 | -0 | 2 | ND | 2.618 | | | | | |
| 25 | 23 | 8 | 36.285 | 2405 | 62 | 46.88N | 179 | 22.01E | 62 | 22N | 179 | 59E | 664227 | 24526 | 147 | 17 | 19 | 49 | 15 | 2 | -0 | 3 | ND | 2.613 | | | | | |
| 26 | 23 | 8 | 38.690 | 2405 | 62 | 38.64N | 179 | 34.13E | 62 | 14N | 179 | 50W | 663689 | 24527 | 147 | 28 | 19 | 59 | 15 | 2 | -0 | 5 | ND | 2.613 | | | | | |
| 27 | 23 | 8 | 41.096 | 2405 | 62 | 30.47N | 179 | 45.43E | 62 | 6N | 179 | 39W | 663153 | 24529 | 147 | 39 | 20 | 8 | 15 | 2 | -0 | 6 | ND | 2.613 | | | | | |
| 28 | 23 | 8 | 43.495 | 2400 | 62 | 22.31N | 179 | 56.55E | 61 | 58N | 179 | 20W | 662620 | 24530 | 147 | 50 | 20 | 18 | 15 | 1 | -0 | 8 | ND | 2.618 | | | | | |
| 29 | 23 | 8 | 45.891 | 2395 | 62 | 14.13N | 179 | 52.45W | 61 | 50N | 179 | 17W | 662089 | 24531 | 148 | 1 | 20 | 27 | 15 | 1 | -0 | 10 | ND | 2.623 | | | | | |
| 30 | 23 | 8 | 48.285 | 2395 | 62 | 5.95N | 179 | 41.55W | 61 | 42N | 179 | 7W | 661559 | 24532 | 148 | 12 | 20 | 36 | 15 | 1 | -0 | 11 | ND | 2.623 | | | | | |
| 31 | 23 | 8 | 50.675 | 2390 | 61 | 57.77N | 179 | 30.79W | 61 | 34N | 178 | 56W | 661033 | 24534 | 148 | 22 | 20 | 46 | 15 | 0 | -0 | 13 | ND | 2.629 | | | | | |

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TOP SECRET

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MISSION 1817-2

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| PASS | 98D FWD | 4MAR65 | FRM | Z TIME | DTIM | DEG MIN | LAT | DEG MIN | LONG | DEG MIN | LAT | DEG MIN | LONG | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|------|---------|--------|--------|--------|------|---------|--------|---------|--------|---------|-----|---------|------|----------|-------|---------|--------|---------|---------|---------|-------|
| | HR MI | SEC | | MILS | | | | | | | | | | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 1 | 0 | 38 | 48 | 4380 | 0 | 62 | 18.12N | 157 | 32.79E | 61 | 47N | 158 | 6E | 661844 | 24533 | 148 | 6 | 28 | 52 | ND | 1.927 |
| 2 | 0 | 38 | 43 | 689 | 3260 | 61 | 58.96N | 157 | 47.52E | 61 | 36N | 158 | 20E | 660328 | 24535 | 148 | 21 | 21 | 5 | ND | 1.927 |
| 3 | 0 | 38 | 46 | 428 | 2731 | 61 | 49.59N | 157 | 59.72E | 61 | 26N | 158 | 32E | 659732 | 24536 | 148 | 33 | 21 | 15 | ND | 2.301 |
| 4 | 0 | 38 | 48 | 953 | 2534 | 61 | 40.88N | 158 | 10.92E | 61 | 18N | 158 | 43E | 659180 | 24538 | 148 | 44 | 21 | 25 | ND | 2.488 |
| 5 | 0 | 38 | 51 | 429 | 2475 | 61 | 32.35N | 158 | 21.76E | 61 | 9N | 158 | 53E | 658642 | 24539 | 148 | 55 | 21 | 35 | ND | 2.539 |
| 6 | 0 | 38 | 53 | 864 | 2436 | 61 | 23.94N | 158 | 32.32E | 61 | 1N | 159 | 4E | 658114 | 24540 | 149 | 5 | 21 | 44 | ND | 2.579 |
| 7 | 0 | 38 | 56 | 288 | 2424 | 61 | 15.56N | 158 | 42.73E | 60 | 52N | 159 | 14E | 657391 | 24541 | 149 | 15 | 21 | 54 | ND | 2.592 |
| 8 | 0 | 38 | 58 | 698 | 2410 | 61 | 7.21N | 158 | 52.99E | 60 | 44N | 159 | 24E | 657872 | 24543 | 149 | 25 | 22 | 3 | ND | 2.607 |
| 9 | 0 | 39 | 1.099 | 2400 | 2400 | 60 | 58.88N | 159 | 3.11E | 60 | 36N | 159 | 34E | 656557 | 24544 | 149 | 35 | 22 | 13 | ND | 2.618 |
| 10 | 0 | 39 | 3.488 | 2390 | 2390 | 60 | 50.57N | 159 | 13.10E | 60 | 27N | 159 | 43E | 656046 | 24545 | 149 | 45 | 22 | 22 | ND | 2.629 |
| 11 | 0 | 39 | 5.868 | 2380 | 2380 | 60 | 42.28N | 159 | 22.95E | 60 | 19N | 159 | 53E | 655539 | 24546 | 149 | 54 | 22 | 31 | ND | 2.640 |
| 12 | 0 | 39 | 8.254 | 2385 | 2385 | 60 | 33.96N | 159 | 32.74E | 60 | 11N | 160 | 3E | 655032 | 24547 | 150 | 4 | 22 | 41 | ND | 2.634 |
| 13 | 0 | 39 | 10.630 | 2376 | 2376 | 60 | 25.66N | 159 | 42.40E | 60 | 2N | 160 | 12E | 654528 | 24549 | 150 | 13 | 22 | 50 | ND | 2.644 |
| 14 | 0 | 39 | 13.005 | 2375 | 2375 | 60 | 17.34N | 159 | 51.97E | 59 | 54N | 160 | 21E | 654027 | 24550 | 150 | 23 | 22 | 59 | ND | 2.646 |
| 15 | 0 | 39 | 15.373 | 2369 | 2369 | 60 | 9.04N | 160 | 1.43E | 59 | 46N | 160 | 30E | 653528 | 24551 | 150 | 32 | 23 | 9 | ND | 2.652 |
| 16 | 0 | 39 | 17.743 | 2370 | 2370 | 60 | 0.72N | 160 | 10.81E | 59 | 37N | 160 | 40E | 653030 | 24552 | 150 | 41 | 23 | 18 | ND | 2.651 |
| 17 | 0 | 39 | 20.108 | 2365 | 2365 | 59 | 52.48N | 160 | 20.09E | 59 | 29N | 160 | 49E | 652536 | 24553 | 150 | 50 | 23 | 27 | ND | 2.657 |
| 18 | 0 | 39 | 22.470 | 2361 | 2361 | 59 | 44.08N | 160 | 29.28E | 59 | 21N | 160 | 58E | 652044 | 24554 | 150 | 59 | 23 | 36 | ND | 2.661 |
| 19 | 0 | 39 | 24.828 | 2359 | 2359 | 59 | 35.76N | 160 | 38.37E | 59 | 12N | 161 | 6E | 651554 | 24556 | 151 | 8 | 23 | 46 | ND | 2.663 |
| 20 | 0 | 39 | 27.188 | 2360 | 2360 | 59 | 27.42N | 160 | 47.39E | 59 | 4N | 161 | 15E | 651064 | 24557 | 151 | 17 | 23 | 55 | ND | 2.662 |
| 21 | 0 | 39 | 29.538 | 2350 | 2350 | 59 | 19.11N | 160 | 56.29E | 58 | 56N | 161 | 24E | 650580 | 24558 | 151 | 26 | 24 | 4 | ND | 2.674 |
| 22 | 0 | 39 | 31.894 | 2355 | 2355 | 59 | 10.76N | 161 | 5.14E | 58 | 47N | 161 | 33E | 650095 | 24559 | 151 | 34 | 24 | 13 | ND | 2.668 |
| 23 | 0 | 39 | 34.234 | 2341 | 2341 | 59 | 2.46N | 161 | 13.86E | 58 | 39N | 161 | 41E | 649614 | 24560 | 151 | 43 | 24 | 22 | ND | 2.684 |
| 24 | 0 | 39 | 36.584 | 2349 | 2349 | 58 | 54.11N | 161 | 22.53E | 58 | 31N | 161 | 50E | 649135 | 24561 | 151 | 51 | 24 | 32 | ND | 2.675 |
| 25 | 0 | 39 | 38.934 | 2350 | 2350 | 58 | 45.75N | 161 | 31.14E | 58 | 22N | 161 | 58E | 648656 | 24562 | 151 | 59 | 24 | 41 | ND | 2.674 |
| 26 | 0 | 39 | 41.273 | 2340 | 2340 | 58 | 37.42N | 161 | 39.63E | 58 | 14N | 162 | 6E | 648181 | 24563 | 152 | 8 | 24 | 50 | ND | 2.685 |
| 27 | 0 | 39 | 43.609 | 2336 | 2336 | 58 | 29.08N | 161 | 48.04E | 58 | 6N | 162 | 14E | 647708 | 24565 | 152 | 16 | 24 | 59 | ND | 2.690 |
| 28 | 0 | 39 | 45.953 | 2344 | 2344 | 58 | 20.71N | 161 | 56.40E | 57 | 57N | 162 | 23E | 647236 | 24566 | 152 | 24 | 25 | 8 | ND | 2.681 |
| 29 | 0 | 39 | 48.288 | 2335 | 2335 | 58 | 12.36N | 162 | 4.67E | 57 | 49N | 162 | 31E | 646767 | 24567 | 152 | 32 | 25 | 18 | ND | 2.691 |
| 30 | 0 | 39 | 50.623 | 2335 | 2335 | 58 | 4.08N | 162 | 12.86E | 57 | 40N | 162 | 39E | 646300 | 24568 | 152 | 40 | 25 | 27 | ND | 2.691 |
| 31 | 0 | 39 | 52.953 | 2330 | 2330 | 57 | 55.64N | 162 | 20.97E | 57 | 32N | 162 | 47E | 645835 | 24569 | 152 | 48 | 25 | 36 | ND | 2.697 |
| 32 | 0 | 39 | 55.283 | 2330 | 2330 | 57 | 47.27N | 162 | 29.02E | 57 | 24N | 162 | 54E | 645372 | 24570 | 152 | 56 | 25 | 45 | ND | 2.697 |
| 33 | 0 | 39 | 57.613 | 2330 | 2330 | 57 | 38.90N | 162 | 37.00E | 57 | 15N | 163 | 2E | 644911 | 24571 | 153 | 3 | 25 | 54 | ND | 2.697 |
| 34 | 0 | 39 | 59.938 | 2325 | 2325 | 57 | 30.53N | 162 | 44.89E | 57 | 7N | 163 | 18E | 644452 | 24572 | 153 | 11 | 26 | 3 | ND | 2.702 |
| 35 | 0 | 40 | 2.264 | 2325 | 2325 | 56 | 22.15N | 162 | 52.73E | 56 | 58N | 163 | 17E | 643995 | 24573 | 153 | 19 | 26 | 12 | ND | 2.702 |
| 36 | 0 | 40 | 4.584 | 2320 | 2320 | 56 | 13.78N | 163 | 0.48E | 56 | 50N | 163 | 25E | 643540 | 24574 | 153 | 26 | 26 | 21 | ND | 2.708 |
| 37 | 0 | 40 | 6.898 | 2315 | 2315 | 56 | 5.42N | 163 | 8.15E | 56 | 42N | 163 | 32E | 643089 | 24575 | 153 | 33 | 26 | 30 | ND | 2.714 |
| 38 | 0 | 40 | 9.214 | 2315 | 2315 | 56 | 57.05N | 163 | 15.76E | 56 | 33N | 163 | 40E | 642639 | 24576 | 153 | 41 | 26 | 39 | ND | 2.714 |
| 39 | 0 | 40 | 11.528 | 2315 | 2315 | 56 | 48.67N | 163 | 23.31E | 56 | 25N | 163 | 47E | 642191 | 24577 | 153 | 48 | 26 | 49 | ND | 2.714 |

TOP SECRET

HANDLE VIA

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| FRM | 2 TIME | DTM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-----------|-------------|---------|-----------|------------|---------|---------|----------|---------|---------|--------|---------|---------|---------|-------|
| HR MI SEC | MILS | DEG MIN | DEG MIN | DEG MIN | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 1 | 3 35 55.887 | 0 | 69 59.99N | 96 15.52E | 69 | 40N 97 | 21E | 6953385 | 24453 | 132 | 20 | 10 | 57 | 1.821 |
| 2 | 3 35 59.337 | 3450 | 69 50.63N | 96 45.16E | 69 | 31N 97 | 49E | 694514 | 24455 | 132 | 49 | 11 | 11 | 1.821 |
| 3 | 3 36 2.241 | 2985 | 69 42.69N | 97 9.77E | 69 | 23N 98 | 13E | 693784 | 24457 | 133 | 14 | 11 | 11 | 2.163 |
| 4 | 3 36 4.981 | 2740 | 69 35.14N | 97 32.69E | 69 | 15N 98 | 35E | 693095 | 24458 | 133 | 37 | 11 | 33 | 2.293 |
| 5 | 3 36 7.652 | 2671 | 69 27.73N | 97 54.78E | 69 | 8N 98 | 56E | 692426 | 24460 | 133 | 59 | 11 | 43 | 2.352 |
| 6 | 3 36 10.275 | 2623 | 69 20.40N | 98 16.21E | 69 | 0N 99 | 17E | 691778 | 24461 | 134 | 20 | 11 | 54 | 2.395 |
| 7 | 3 36 12.922 | 2646 | 69 12.96N | 98 37.56E | 68 | 53N 99 | 37E | 691109 | 24463 | 134 | 41 | 12 | 4 | 2.375 |
| 8 | 3 36 15.531 | 2610 | 69 5.58N | 98 58.41E | 68 | 45N 99 | 57E | 690460 | 24464 | 135 | 2 | 12 | 14 | 2.407 |
| 9 | 3 36 18.132 | 2600 | 68 58.17N | 99 18.99E | 68 | 38N 100 | 17E | 689813 | 24466 | 135 | 22 | 12 | 24 | 2.417 |
| 10 | 3 36 20.727 | 2595 | 68 50.75N | 99 39.17E | 68 | 30N 100 | 36E | 689170 | 24467 | 135 | 42 | 12 | 34 | 2.421 |
| 11 | 3 36 23.312 | 2585 | 68 43.30N | 99 59.11E | 68 | 23N 100 | 56E | 688530 | 24469 | 136 | 2 | 12 | 45 | 2.431 |
| 12 | 3 36 25.892 | 2580 | 68 35.83N | 100 18.78E | 68 | 15N 101 | 15E | 687894 | 24470 | 136 | 21 | 12 | 55 | 2.435 |
| 13 | 3 36 28.463 | 2571 | 68 28.35N | 100 38.16E | 68 | 8N 101 | 33E | 687260 | 24472 | 136 | 41 | 13 | 5 | 2.444 |
| 14 | 3 36 31.031 | 2569 | 68 20.83N | 100 57.30E | 68 | 0N 101 | 52E | 686629 | 24473 | 137 | 0 | 13 | 15 | 2.446 |
| 15 | 3 36 33.597 | 2565 | 68 13.28N | 101 16.21E | 67 | 52N 102 | 10E | 685999 | 24476 | 137 | 18 | 13 | 25 | 2.450 |
| 16 | 3 36 36.156 | 2560 | 68 5.71N | 101 34.86E | 67 | 45N 102 | 28E | 685373 | 24478 | 137 | 37 | 13 | 35 | 2.454 |
| 17 | 3 36 38.713 | 2556 | 67 58.12N | 101 53.27E | 67 | 37N 102 | 46E | 684748 | 24478 | 137 | 55 | 13 | 45 | 2.458 |
| 18 | 3 36 41.263 | 2550 | 67 50.50N | 102 11.44E | 67 | 29N 102 | 3E | 6844127 | 24479 | 138 | 13 | 13 | 55 | 2.464 |
| 19 | 3 36 43.812 | 2549 | 67 42.85N | 102 29.39E | 67 | 22N 103 | 20E | 683507 | 24481 | 138 | 31 | 14 | 5 | 2.465 |
| 20 | 3 36 46.353 | 2541 | 67 35.19N | 102 47.09E | 67 | 14N 103 | 37E | 682891 | 24482 | 138 | 49 | 14 | 15 | 2.473 |
| 21 | 3 36 48.892 | 2539 | 67 27.51N | 103 4.58E | 67 | 6N 103 | 54E | 682277 | 24483 | 139 | 6 | 14 | 25 | 2.475 |
| 22 | 3 36 51.427 | 2535 | 67 19.80N | 103 21.85E | 66 | 58N 104 | 11E | 681664 | 24485 | 139 | 23 | 14 | 35 | 2.479 |
| 23 | 3 36 53.956 | 2530 | 67 12.07N | 103 38.89E | 66 | 51N 104 | 27E | 681055 | 24486 | 139 | 40 | 14 | 45 | 2.483 |
| 24 | 3 36 56.486 | 2530 | 67 4.31N | 103 55.75E | 66 | 43N 104 | 44E | 680447 | 24488 | 139 | 57 | 14 | 55 | 2.483 |
| 25 | 3 36 59.017 | 2530 | 66 56.52N | 104 12.43E | 66 | 35N 105 | 0E | 679844 | 24489 | 140 | 13 | 15 | 5 | 2.483 |
| 26 | 3 37 1.531 | 2515 | 66 48.74N | 104 28.82E | 66 | 27N 105 | 16E | 679238 | 24491 | 140 | 29 | 15 | 14 | 2.498 |
| 27 | 3 37 4.052 | 2520 | 66 40.91N | 104 45.07E | 66 | 19N 105 | 31E | 678637 | 24492 | 140 | 45 | 15 | 24 | 2.498 |
| 28 | 3 37 6.566 | 2515 | 66 33.08N | 105 1.11E | 66 | 11N 105 | 47E | 678039 | 24493 | 141 | 1 | 15 | 34 | 2.498 |
| 29 | 3 37 9.076 | 2510 | 66 25.22N | 105 16.94E | 66 | 3N 106 | 2E | 677442 | 24495 | 141 | 17 | 15 | 44 | 2.503 |
| 30 | 3 37 11.581 | 2505 | 66 17.36N | 105 32.57E | 65 | 55N 106 | 17E | 676849 | 24496 | 141 | 32 | 15 | 54 | 2.508 |
| 31 | 3 37 14.087 | 2505 | 66 9.46N | 105 48.04E | 65 | 47N 106 | 32E | 676257 | 24497 | 141 | 48 | 16 | 4 | 2.508 |
| 32 | 3 37 16.592 | 2505 | 66 1.54N | 106 3.34E | 65 | 39N 106 | 47E | 675666 | 24499 | 142 | 3 | 16 | 14 | 2.513 |
| 33 | 3 37 19.092 | 2500 | 65 53.60N | 106 18.44E | 65 | 31N 107 | 2E | 675078 | 24500 | 142 | 18 | 16 | 23 | 2.518 |
| 34 | 3 37 21.587 | 2495 | 65 45.66N | 106 33.36E | 65 | 23N 107 | 16E | 674493 | 24502 | 142 | 33 | 16 | 33 | 2.523 |
| 35 | 3 37 24.076 | 2490 | 65 37.70N | 106 48.08E | 65 | 15N 107 | 30E | 673909 | 24503 | 142 | 47 | 16 | 43 | 2.523 |
| 36 | 3 37 26.562 | 2485 | 65 29.74N | 107 2.63E | 65 | 7N 107 | 44E | 673329 | 24504 | 143 | 2 | 16 | 53 | 2.528 |
| 37 | 3 37 29.052 | 2490 | 65 21.73N | 107 17.05E | 64 | 59N 107 | 58E | 672750 | 24506 | 143 | 16 | 17 | 3 | 2.523 |
| 38 | 3 37 31.532 | 2481 | 65 13.72N | 107 31.26E | 64 | 51N 108 | 12E | 672174 | 24507 | 143 | 30 | 17 | 12 | 2.533 |
| 39 | 3 37 34.013 | 2480 | 65 5.70N | 107 45.33E | 64 | 43N 108 | 26E | 671599 | 24508 | 143 | 44 | 17 | 22 | 2.534 |
| 40 | 3 37 36.491 | 2479 | 64 49.59N | 107 59.29E | 64 | 35N 108 | 39E | 671026 | 24510 | 143 | 57 | 17 | 32 | 2.535 |
| 41 | 3 37 38.967 | 2475 | 64 41.53N | 108 12.98E | 64 | 27N 108 | 52E | 670456 | 24511 | 144 | 11 | 17 | 42 | 2.539 |
| 42 | 3 37 41.437 | 2470 | 64 33.44N | 108 26.56E | 64 | 19N 109 | 5E | 669888 | 24512 | 144 | 24 | 17 | 51 | 2.544 |
| 43 | 3 37 43.906 | 2470 | 64 25.36N | 108 39.99E | 64 | 10N 109 | 18E | 669322 | 24514 | 144 | 38 | 18 | 1 | 2.544 |
| 44 | 3 37 46.367 | 2461 | 64 17.25N | 108 53.24E | 64 | 2N 109 | 31E | 668759 | 24515 | 144 | 51 | 18 | 11 | 2.553 |
| 45 | 3 37 48.831 | 2464 | 64 9.37E | 109 6.37E | 63 | 54N 109 | 44E | 668197 | 24516 | 145 | 4 | 18 | 20 | 2.550 |

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| FRM | Z TIME | HR MI SEC | DTIM | CAMERA | NADR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | | | | | | |
|-----|--------|-----------|-------|--------|--------|--------|--------|----------|-------|---------|--------|---------|---------|---------|------|----|----|----|----|----|----|----|-------|
| | | | MILS | LAT | LONG | LAT | LONG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE | | | | | | | | |
| 46 | 3 37 | 51.291 | 2460 | 64 | 9.13N | 109 | 19.35E | 63 | 46N | 109 | 56E | 667638 | 24518 | 145 | 16 | 18 | 30 | 14 | 25 | -0 | 16 | ND | 2.554 |
| 47 | 3 37 | 53.746 | 2455 | 64 | 1.00N | 109 | 32.17E | 63 | 38N | 110 | 9E | 667081 | 24519 | 145 | 29 | 18 | 40 | 14 | 25 | -0 | 18 | ND | 2.559 |
| 48 | 3 37 | 56.196 | 2450 | 63 | 52.87N | 109 | 44.84E | 63 | 38N | 110 | 21E | 666527 | 24520 | 145 | 42 | 18 | 49 | 14 | 25 | -0 | 18 | ND | 2.565 |
| 49 | 3 37 | 58.646 | 2450 | 63 | 44.72N | 109 | 57.38E | 63 | 21N | 110 | 33E | 665974 | 24521 | 145 | 54 | 18 | 59 | 14 | 25 | -0 | 19 | ND | 2.565 |
| 50 | 3 38 | 1.098 | 2451 | 63 | 36.54N | 110 | 9.80E | 63 | 13N | 110 | 45E | 665422 | 24523 | 146 | 6 | 19 | 9 | 14 | 26 | -0 | 20 | ND | 2.564 |
| 51 | 3 38 | 3.547 | 2449 | 63 | 28.35N | 110 | 22.00E | 62 | 5N | 110 | 57E | 664873 | 24524 | 146 | 30 | 19 | 18 | 14 | 26 | -0 | 21 | ND | 2.575 |
| 52 | 3 38 | 5.986 | 2449 | 63 | 20.18N | 110 | 34.20E | 62 | 57N | 111 | 9E | 664327 | 24525 | 146 | 18 | 19 | 28 | 14 | 26 | -0 | 21 | ND | 2.575 |
| 53 | 3 38 | 8.423 | 2436 | 63 | 11.99N | 110 | 46.18E | 62 | 48N | 111 | 20E | 663784 | 24526 | 146 | 42 | 19 | 37 | 14 | 27 | -0 | 21 | ND | 2.579 |
| 54 | 3 38 | 10.856 | 2434 | 63 | 3.80N | 110 | 58.03E | 62 | 48N | 111 | 32E | 663243 | 24528 | 146 | 54 | 19 | 47 | 14 | 27 | -0 | 21 | ND | 2.581 |
| 55 | 3 38 | 13.297 | 2440 | 62 | 55.56N | 111 | 9.80E | 62 | 32N | 111 | 43E | 662701 | 24529 | 147 | 5 | 19 | 57 | 14 | 27 | -0 | 20 | ND | 2.575 |
| 56 | 3 38 | 15.722 | 2425 | 62 | 47.36N | 111 | 21.37E | 62 | 24N | 111 | 55E | 662165 | 24530 | 147 | 17 | 20 | 6 | 14 | 28 | -0 | 20 | ND | 2.591 |
| 57 | 3 38 | 18.146 | 2425 | 62 | 39.14N | 111 | 32.84E | 62 | 15N | 112 | 6E | 661630 | 24532 | 147 | 28 | 20 | 16 | 14 | 28 | -0 | 19 | ND | 2.591 |
| 58 | 3 38 | 20.576 | 2430 | 62 | 30.88N | 111 | 44.22E | 62 | 7N | 112 | 17E | 661096 | 24533 | 147 | 39 | 20 | 25 | 14 | 29 | -0 | 18 | ND | 2.586 |
| 59 | 3 38 | 23.002 | 2425 | 62 | 22.63N | 111 | 55.47E | 61 | 59N | 112 | 28E | 660564 | 24534 | 147 | 50 | 20 | 35 | 14 | 29 | -0 | 17 | ND | 2.591 |
| 60 | 3 38 | 25.422 | 2420 | 62 | 14.37N | 112 | 6.59E | 61 | 51N | 112 | 39E | 660035 | 24535 | 148 | 1 | 20 | 44 | 14 | 30 | -0 | 17 | ND | 2.596 |
| 61 | 3 38 | 27.842 | 2420 | 62 | 6.10N | 112 | 17.60E | 61 | 42N | 112 | 49E | 659507 | 24536 | 148 | 12 | 20 | 54 | 14 | 30 | -0 | 18 | ND | 2.596 |
| 62 | 3 38 | 30.262 | 2420 | 61 | 57.81N | 112 | 28.50E | 61 | 34N | 113 | 0E | 658982 | 24538 | 148 | 22 | 21 | 3 | 14 | 31 | -0 | 18 | ND | 2.596 |
| 63 | 3 38 | 32.677 | 2415 | 61 | 49.52N | 112 | 39.28E | 61 | 26N | 113 | 10E | 658458 | 24539 | 148 | 33 | 21 | 13 | 14 | 32 | -0 | 19 | ND | 2.602 |
| 64 | 3 38 | 35.087 | 2410 | 61 | 41.23N | 112 | 49.94E | 61 | 17N | 113 | 21E | 657938 | 24540 | 148 | 43 | 21 | 22 | 14 | 32 | -0 | 20 | ND | 2.607 |
| 65 | 3 38 | 37.492 | 2406 | 61 | 32.94N | 113 | 0.48E | 61 | 9N | 113 | 31E | 657420 | 24541 | 148 | 54 | 21 | 32 | 14 | 33 | -0 | 20 | ND | 2.611 |
| 66 | 3 38 | 39.901 | 2409 | 61 | 24.63N | 113 | 10.94E | 61 | 0N | 113 | 41E | 656903 | 24543 | 149 | 4 | 21 | 41 | 14 | 34 | -0 | 21 | ND | 2.608 |
| 67 | 3 38 | 42.302 | 2405 | 61 | 16.33N | 113 | 21.26E | 60 | 52N | 113 | 51E | 656389 | 24544 | 149 | 14 | 21 | 51 | 14 | 35 | -0 | 20 | ND | 2.618 |
| 68 | 3 38 | 44.706 | 2405 | 61 | 8.08N | 113 | 31.50E | 60 | 44N | 114 | 1E | 655876 | 24545 | 149 | 24 | 22 | 0 | 14 | 35 | -0 | 19 | ND | 2.613 |
| 69 | 3 39 | 19.916 | 35210 | 59 | 4.41N | 115 | 51.28E | 58 | 48N | 116 | 16E | 644552 | 24562 | 151 | 41 | 24 | 18 | 14 | 26 | -0 | 36 | ND | 0.178 |
| 70 | 3 39 | 23.106 | 3190 | 58 | 53.07N | 116 | 3.07E | 58 | 29N | 116 | 27E | 647905 | 24564 | 151 | 52 | 24 | 31 | 14 | 27 | -0 | 37 | ND | 1.970 |
| 71 | 3 39 | 25.781 | 2675 | 58 | 43.55N | 116 | 12.85E | 58 | 19N | 116 | 37E | 647367 | 24565 | 152 | 2 | 24 | 41 | 14 | 27 | -0 | 39 | ND | 2.349 |
| 72 | 3 39 | 28.297 | 2515 | 58 | 34.59N | 116 | 21.96E | 58 | 10N | 116 | 46E | 646862 | 24566 | 152 | 10 | 24 | 51 | 14 | 29 | -0 | 40 | ND | 2.498 |
| 73 | 3 39 | 30.736 | 2440 | 58 | 25.88N | 116 | 30.71E | 58 | 1N | 116 | 54E | 646374 | 24567 | 152 | 19 | 25 | 1 | 14 | 31 | -0 | 40 | ND | 2.575 |
| 74 | 3 39 | 33.142 | 2405 | 58 | 17.28N | 116 | 49.27E | 57 | 53N | 117 | 3E | 645895 | 24568 | 152 | 27 | 25 | 10 | 14 | 32 | -0 | 41 | ND | 2.613 |
| 75 | 3 39 | 35.531 | 2390 | 58 | 8.73N | 116 | 47.70E | 57 | 44N | 117 | 11E | 645420 | 24569 | 152 | 35 | 25 | 20 | 14 | 34 | -0 | 41 | ND | 2.629 |
| 76 | 3 39 | 37.906 | 2375 | 58 | 0.22N | 116 | 56.00E | 57 | 35N | 117 | 19E | 644950 | 24571 | 152 | 44 | 25 | 29 | 14 | 34 | -0 | 41 | ND | 2.646 |
| 77 | 3 39 | 40.272 | 2366 | 57 | 51.73N | 117 | 4.21E | 57 | 27N | 117 | 27E | 644484 | 24572 | 152 | 51 | 25 | 38 | 14 | 34 | -0 | 41 | ND | 2.656 |
| 78 | 3 39 | 42.633 | 2360 | 57 | 43.25N | 117 | 12.33E | 57 | 18N | 117 | 35E | 644020 | 24573 | 152 | 59 | 25 | 48 | 14 | 35 | -0 | 40 | ND | 2.662 |
| 79 | 3 39 | 44.991 | 2359 | 57 | 34.76N | 117 | 20.37E | 57 | 10N | 117 | 43E | 643559 | 24574 | 153 | 7 | 25 | 57 | 14 | 35 | -0 | 40 | ND | 2.663 |
| 80 | 3 39 | 47.352 | 2360 | 57 | 26.26N | 117 | 28.35E | 57 | 1N | 117 | 51E | 643099 | 24575 | 153 | 15 | 26 | 6 | 14 | 35 | -0 | 39 | ND | 2.662 |
| 81 | 3 39 | 49.696 | 2345 | 57 | 17.81N | 117 | 36.22E | 56 | 53N | 118 | 58E | 642643 | 24576 | 153 | 22 | 26 | 15 | 14 | 36 | -0 | 38 | ND | 2.679 |
| 82 | 3 39 | 52.041 | 2345 | 57 | 9.34N | 117 | 44.02E | 56 | 44N | 118 | 6E | 642190 | 24577 | 153 | 30 | 26 | 24 | 14 | 36 | -0 | 37 | ND | 2.679 |
| 83 | 3 39 | 54.387 | 2345 | 57 | 0.87N | 117 | 51.76E | 56 | 36N | 118 | 14E | 641737 | 24578 | 153 | 38 | 26 | 34 | 14 | 37 | -0 | 36 | ND | 2.679 |
| 84 | 3 39 | 56.727 | 2340 | 56 | 52.40N | 117 | 59.42E | 56 | 28N | 118 | 21E | 641280 | 24579 | 153 | 45 | 26 | 43 | 14 | 37 | -0 | 35 | ND | 2.665 |
| 85 | 3 39 | 59.071 | 2345 | 56 | 43.91N | 118 | 7.04E | 56 | 19N | 118 | 29E | 640840 | 24580 | 153 | 52 | 26 | 52 | 14 | 38 | -0 | 33 | ND | 2.679 |
| 86 | 3 40 | 1.481 | 2330 | 56 | 35.46N | 118 | 14.54E | 56 | 11N | 118 | 36E | 640395 | 24581 | 154 | 0 | 27 | 1 | 14 | 38 | -0 | 33 | ND | 2.697 |
| 87 | 3 40 | 3.736 | 2335 | 56 | 26.98N | 118 | 22.00E | 56 | 2N | 118 | 43E | 639952 | 24582 | 154 | 7 | 27 | 10 | 14 | 38 | -0 | 32 | ND | 2.691 |
| 88 | 3 40 | 6.071 | 2335 | 56 | 18.49N | 118 | 29.41E | 55 | 54N | 118 | 51E | 639512 | 24583 | 154 | 14 | 27 | 19 | 14 | 38 | -0 | 31 | ND | 2.691 |
| 89 | 3 40 | 8.401 | 2330 | 56 | 10.02N | 118 | 36.74E | 55 | 45N | 118 | 58E | 639072 | 24584 | 154 | 21 | 27 | 29 | 14 | 38 | -0 | 29 | ND | 2.697 |
| 90 | 3 40 | 10.731 | 2330 | 56 | 1.53N | 118 | 44.01E | 55 | 37N | 119 | 5E | 638635 | 24585 | 154 | 28 | 27 | 38 | 14 | 39 | -0 | 29 | ND | 2.697 |

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|-------|--------|--------|--------------|-----------|---------------|----------------|----------|-------|--------|--------|---------|--------|--------|--------|---------|---------|---------|---------|---------|------|------|
| HR MI | SEC | MILS | DEG MIN | DEG LONG | DEG MIN | DEG LONG | FEET | F/S | DEG MI | DEG MI | DEG MI | DEG MI | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | DEG MIN | DEG MIN | RATE | |
| 91 | 3 40 | 13.053 | 2321 | 55 53.07N | 118 51.19E | 55 28N 119 12E | 638202 | 24586 | 154 35 | 27 47 | 14 39 | -0 28 | ND | 2.707 | | | | | | | |
| 92 | 3 40 | 15.377 | 2324 | 55 44.58N | 118 58.34E | 55 20N 119 19E | 637769 | 24587 | 154 42 | 27 56 | 14 39 | -0 27 | ND | 2.704 | | | | | | | |
| 93 | 3 40 | 17.701 | 2325 | 55 36.09N | 119 5.42E | 55 11N 119 26E | 637339 | 24588 | 154 48 | 28 5 | 14 39 | -0 26 | ND | 2.702 | | | | | | | |
| 94 | 3 40 | 20.017 | 2315 | 55 27.63N | 119 12.42E | 55 3N 119 33E | 636911 | 24589 | 154 55 | 28 14 | 14 39 | -0 25 | ND | 2.714 | | | | | | | |
| 95 | 3 40 | 22.337 | 2320 | 55 19.13N | 119 19.39E | 54 54N 119 40E | 636485 | 24590 | 155 2 | 28 23 | 14 39 | -0 24 | ND | 2.708 | | | | | | | |
| 96 | 3 40 | 24.652 | 2316 | 55 10.65N | 119 26.29E | 54 46N 119 47E | 636061 | 24591 | 155 9 | 28 32 | 14 39 | -0 23 | ND | 2.713 | | | | | | | |
| 97 | 3 40 | 26.967 | 2314 | 55 2.16N | 119 33.13E | 54 37N 119 03E | 635640 | 24592 | 155 15 | 28 41 | 14 39 | -0 23 | ND | 2.715 | | | | | | | |
| 98 | 3 40 | 29.281 | 2315 | 54 53.67N | 119 39.92E | 54 29N 120 0E | 635219 | 24593 | 155 22 | 28 50 | 14 39 | -0 22 | ND | 2.714 | | | | | | | |
| 99 | 3 40 | 31.592 | 2310 | 54 45.18N | 119 46.64E | 54 20N 120 0E | 634802 | 24594 | 155 28 | 28 59 | 14 40 | -0 21 | ND | 2.720 | | | | | | | |
| 100 | 3 40 | 33.897 | 2306 | 54 36.70N | 119 53.31E | 54 12N 120 13E | 634387 | 24595 | 155 34 | 29 8 | 14 40 | -0 20 | ND | 2.725 | | | | | | | |
| 101 | 3 40 | 36.201 | 2304 | 54 28.22N | 119 59.91E | 54 3N 120 20E | 633974 | 24596 | 155 41 | 29 17 | 14 40 | -0 19 | ND | 2.727 | | | | | | | |
| 102 | 3 40 | 38.507 | 2305 | 54 19.73N | 120 6.48E | 53 55N 120 26E | 633563 | 24597 | 155 47 | 29 26 | 14 40 | -0 17 | ND | 2.726 | | | | | | | |
| 103 | 3 40 | 40.807 | 2300 | 54 11.25N | 120 12.98E | 53 46N 120 33E | 633155 | 24598 | 155 53 | 29 35 | 14 40 | -0 16 | ND | 2.732 | | | | | | | |
| 104 | 3 40 | 43.107 | 2301 | 54 2.75N | 120 19.43E | 53 38N 120 39E | 632748 | 24599 | 155 59 | 29 45 | 14 41 | -0 15 | ND | 2.731 | | | | | | | |
| 105 | 3 40 | 45.411 | 2304 | 53 54.25N | 120 25.85E | 53 29N 120 45E | 632342 | 24600 | 155 5 | 29 54 | 14 41 | -0 14 | ND | 2.727 | | | | | | | |
| 106 | 3 40 | 47.712 | 2300 | 53 45.74N | 120 32.20E | 53 21N 120 52E | 631939 | 24601 | 156 12 | 30 3 | 14 41 | -0 12 | ND | 2.732 | | | | | | | |
| 107 | 3 40 | 50.007 | 2295 | 53 37.25N | 120 38.50E | 53 13N 120 58E | 631538 | 24602 | 156 18 | 30 12 | 14 41 | -0 11 | ND | 2.738 | | | | | | | |
| 108 | 3 40 | 52.302 | 2295 | 53 28.75N | 120 44.75E | 53 4N 121 4E | 631140 | 24603 | 156 23 | 30 20 | 14 41 | -0 10 | ND | 2.738 | | | | | | | |
| 109 | 3 40 | 54.592 | 2290 | 53 20.26N | 120 50.95E | 52 56N 121 0E | 630744 | 24604 | 156 29 | 30 29 | 14 42 | -0 9 | ND | 2.744 | | | | | | | |
| 110 | 3 40 | 56.884 | 2292 | 53 11.76N | 120 57.10E | 52 47N 121 16E | 630349 | 24605 | 156 35 | 30 38 | 14 42 | -0 8 | ND | 2.741 | | | | | | | |
| 111 | 3 40 | 59.162 | 2279 | 53 3.31N | 121 3.17E | 52 39N 121 22E | 629959 | 24606 | 156 41 | 30 47 | 14 42 | -0 7 | ND | 2.757 | | | | | | | |
| 112 | 3 41 | 1.451 | 2289 | 52 54.80N | 121 9.23E | 52 30N 121 28E | 629569 | 24607 | 156 47 | 30 56 | 14 42 | -0 6 | ND | 2.745 | | | | | | | |
| 113 | 3 41 | 3.736 | 2285 | 52 46.31N | 121 15.24E | 52 22N 121 34E | 629180 | 24608 | 156 52 | 31 5 | 14 42 | -0 5 | ND | 2.750 | | | | | | | |
| 114 | 3 41 | 6.021 | 2285 | 52 37.80N | 121 21.20E | 52 13N 121 40E | 628795 | 24609 | 156 58 | 31 14 | 14 42 | -0 4 | ND | 2.750 | | | | | | | |
| 115 | 3 41 | 8.307 | 2285 | 52 29.30N | 121 27.12E | 52 5N 121 46E | 628411 | 24609 | 157 4 | 31 23 | 14 42 | -0 3 | ND | 2.750 | | | | | | | |
| 116 | 3 41 | 10.581 | 2275 | 52 20.82N | 121 32.98E | 51 56N 121 51E | 628030 | 24610 | 157 9 | 31 32 | 14 42 | -0 2 | ND | 2.762 | | | | | | | |
| 117 | 3 41 | 12.861 | 2280 | 52 12.32N | 121 38.80E | 51 48N 121 57E | 627650 | 24611 | 157 15 | 31 41 | 14 43 | -0 1 | ND | 2.756 | | | | | | | |
| 118 | 3 41 | 15.132 | 2270 | 52 3.85N | 121 44.56E | 51 39N 122 3E | 627274 | 24612 | 157 20 | 31 50 | 14 43 | -0 0 | ND | 2.768 | | | | | | | |
| 119 | 3 41 | 17.407 | 2276 | 51 55.35N | 121 50.30E | 51 31N 122 9E | 626894 | 24613 | 157 26 | 31 59 | 14 43 | 0 0 | ND | 2.761 | | | | | | | |
| 120 | 3 43 | 47.682 | 50274 | 42 23.28N | 126 58.50E | 41 59N 127 10E | 606494 | 24662 | 162 8 | 41 44 | 14 43 | -0 10 | ND | 0.842 | | | | | | | |
| 121 | 3 43 | 50.764 | 3082 | 42 11.57N | 127 7.80E | 41 47N 127 16E | 606171 | 24662 | 162 12 | 41 56 | 14 43 | -0 10 | ND | 2.839 | | | | | | | |
| 122 | 3 43 | 53.297 | 2533 | 42 1.57N | 127 7.80E | 41 37N 127 20E | 605909 | 24663 | 162 16 | 42 6 | 14 43 | -0 9 | ND | 2.481 | | | | | | | |
| 123 | 3 43 | 55.666 | 2370 | 41 52.41N | 127 11.80E | 41 28N 127 24E | 605666 | 24664 | 162 19 | 42 15 | 14 43 | -0 8 | ND | 2.651 | | | | | | | |
| 124 | 3 43 | 57.962 | 2295 | 41 43.53N | 127 15.58E | 41 19N 127 27E | 605434 | 24664 | 162 22 | 42 24 | 14 43 | -0 8 | ND | 2.738 | | | | | | | |
| 125 | 3 44 | 0.222 | 2260 | 41 34.78N | 127 19.28E | 41 10N 127 31E | 605207 | 24665 | 162 26 | 42 32 | 14 43 | -0 7 | ND | 2.780 | | | | | | | |
| 126 | 3 44 | 2.467 | 2245 | 41 26.08N | 127 22.93E | 41 1N 127 35E | 604984 | 24665 | 162 29 | 42 41 | 14 43 | -0 7 | ND | 2.799 | | | | | | | |
| 127 | 3 44 | 4.701 | 2235 | 41 17.43N | 127 26.56E | 40 53N 127 38E | 604764 | 24666 | 162 32 | 42 50 | 14 42 | -0 6 | ND | 2.811 | | | | | | | |
| 128 | 3 44 | 6.932 | 2230 | 41 8.78N | 127 30.15E | 40 44N 127 42E | 604540 | 24666 | 162 35 | 42 58 | 14 42 | -0 6 | ND | 2.818 | | | | | | | |
| 129 | 3 44 | 9.156 | 2225 | 41 0.16N | 127 33.72E | 40 36N 127 45E | 604332 | 24667 | 162 38 | 43 7 | 14 42 | -0 6 | ND | 2.824 | | | | | | | |
| 130 | 3 44 | 11.383 | 2226 | 40 51.53N | 127 37.28E | 40 27N 127 49E | 604119 | 24667 | 162 41 | 43 15 | 14 41 | -0 6 | ND | 2.823 | | | | | | | |
| 131 | 3 44 | 13.607 | 2225 | 40 42.90N | 127 40.81E | 40 18N 127 52E | 603909 | 24668 | 162 44 | 43 24 | 14 40 | -0 6 | ND | 2.824 | | | | | | | |
| 132 | 3 44 | 15.831 | 2224 | 40 34.27N | 127 44.32E | 40 10N 127 56E | 603701 | 24668 | 162 47 | 43 33 | 14 40 | -0 6 | ND | 2.825 | | | | | | | |
| 133 | 3 44 | 18.052 | 2220 | 40 25.65N | 127 47.82E | 40 1N 127 59E | 603496 | 24669 | 162 50 | 43 41 | 14 39 | -0 6 | ND | 2.830 | | | | | | | |
| 134 | 3 44 | 20.268 | 2216 | 40 17.05N | 127 51.28E | 39 53N 128 2E | 603293 | 24669 | 162 53 | 43 50 | 14 39 | -0 6 | ND | 2.835 | | | | | | | |
| 135 | 3 44 | 22.486 | 2219 | 40 8.43N | 127 54.74E | 39 44N 128 6E | 603092 | 24670 | 162 56 | 43 58 | 14 38 | -0 6 | ND | 2.832 | | | | | | | |

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| FRM | HR | MI | SEC | DTIM | MILS | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | F/S | DEG | MI | DEG | SUN/ | PITCH | ROLL | YAW | SCAN |
|-----|----|----|--------|------|------|--------|-----|--------|------|-----|-----|-----|--------|----------|-------|-----|-----|----|-----|------|-------|------|-------|------|
| | | | | | | | MIN | | MIN | | MIN | | MIN | FEET | | | | | | MI | MIN | MIN | MIN | RATE |
| 136 | 3 | 44 | 24.701 | 2215 | 39 | 59.83N | 127 | 58.17E | 39 | 35N | 128 | 9E | 602894 | 24670 | 162 | 59 | 44 | 7 | 14 | 38 | -0 | 6 | 2.837 | |
| 137 | 3 | 44 | 26.911 | 2210 | 39 | 51.24N | 128 | 1.58E | 39 | 27N | 128 | 13E | 602898 | 24671 | 163 | 2 | 44 | 15 | 14 | 37 | -0 | 6 | 2.843 | |
| 138 | 3 | 44 | 29.127 | 2215 | 39 | 42.63N | 128 | 4.98E | 39 | 18N | 128 | 16E | 602504 | 24671 | 163 | 5 | 44 | 24 | 14 | 36 | -0 | 5 | 2.837 | |
| 139 | 3 | 44 | 31.337 | 2210 | 39 | 34.03N | 128 | 8.36E | 39 | 10N | 128 | 19E | 602312 | 24672 | 163 | 8 | 44 | 32 | 14 | 35 | -0 | 4 | 2.843 | |
| 140 | 3 | 44 | 33.557 | 2220 | 39 | 25.40N | 128 | 11.73E | 39 | 1N | 128 | 23E | 602122 | 24672 | 163 | 11 | 44 | 41 | 14 | 34 | -0 | 4 | 2.830 | |
| 141 | 3 | 44 | 35.767 | 2210 | 39 | 16.80N | 128 | 15.08E | 38 | 52N | 128 | 26E | 601935 | 24672 | 163 | 13 | 44 | 49 | 14 | 34 | -0 | 3 | 2.843 | |
| 142 | 3 | 44 | 37.977 | 2215 | 38 | 8.20N | 128 | 18.40E | 38 | 44N | 128 | 29E | 601750 | 24673 | 163 | 16 | 44 | 58 | 14 | 34 | -0 | 2 | 2.843 | |
| 143 | 3 | 44 | 40.191 | 2210 | 38 | 59.58N | 128 | 21.72E | 38 | 35N | 128 | 33E | 601567 | 24673 | 163 | 19 | 44 | 6 | 14 | 34 | -0 | 1 | 2.837 | |
| 144 | 3 | 44 | 42.402 | 2211 | 38 | 50.97N | 128 | 25.02E | 38 | 27N | 128 | 36E | 601387 | 24674 | 163 | 22 | 44 | 15 | 14 | 34 | 0 | 0 | 2.842 | |
| 145 | 3 | 44 | 44.611 | 2209 | 38 | 42.36N | 128 | 28.30E | 38 | 18N | 128 | 39E | 601208 | 24674 | 163 | 24 | 44 | 23 | 14 | 34 | 0 | 2 | 2.844 | |
| 146 | 3 | 44 | 46.816 | 2205 | 38 | 33.77N | 128 | 31.56E | 38 | 10N | 128 | 42E | 601033 | 24675 | 163 | 27 | 44 | 32 | 14 | 34 | 0 | 3 | 2.850 | |
| 147 | 3 | 44 | 49.016 | 2199 | 38 | 25.20N | 128 | 34.80E | 38 | 1N | 128 | 46E | 600860 | 24675 | 163 | 30 | 44 | 40 | 14 | 34 | 0 | 5 | 2.857 | |
| 148 | 3 | 44 | 51.226 | 2210 | 38 | 16.59N | 128 | 38.03E | 37 | 52N | 128 | 49E | 600688 | 24676 | 163 | 33 | 44 | 49 | 14 | 35 | 0 | 8 | 2.843 | |
| 149 | 3 | 44 | 53.431 | 2205 | 38 | 7.99N | 128 | 41.25E | 37 | 44N | 128 | 52E | 600519 | 24676 | 163 | 35 | 44 | 57 | 14 | 36 | 0 | 8 | 2.850 | |
| 150 | 3 | 44 | 55.641 | 2210 | 37 | 59.37N | 128 | 44.45E | 37 | 35N | 128 | 55E | 600353 | 24676 | 163 | 38 | 44 | 6 | 14 | 36 | 0 | 9 | 2.843 | |

Approved For Release 2001/08/21 : CIA-RDP78T05430

TOP SECRET

HANDLE VIA

PASS 1010 FWD 4MAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65 PAGE 26

| FRM | Z TIME | DTIM | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN | |
|-----|--------|------|--------|------|-----|--------|-----|--------|-----|------|----------|-------|--------|-------|-----|----|-------|------|-----|------|-------|
| HR | MI | SEC | MILS | MIN | MIN | MIN | MIN | MIN | MIN | MIN | FEET | F/S | MI | MI | MI | MI | MIN | MIN | MIN | MIN | RATE |
| 1 | 5 | 3 | 52.892 | 0 | 74 | 7.52N | 52 | 6.59E | 73 | 57N | 53 | 51E | 725066 | 24384 | 110 | 56 | 3 | 20 | 14 | 27 | 1.727 |
| 2 | 5 | 3 | 56.530 | 3639 | 74 | 2.22N | 52 | 55.94E | 73 | 51N | 54 | 40E | 724081 | 24387 | 111 | 46 | 3 | 34 | 14 | 30 | 1.727 |
| 3 | 5 | 3 | 59.566 | 3036 | 73 | 57.66N | 53 | 36.70E | 73 | 46N | 55 | 20E | 723260 | 24389 | 112 | 26 | 3 | 46 | 14 | 32 | 2.070 |
| 4 | 5 | 4 | 2.440 | 2874 | 73 | 53.22N | 54 | 14.93E | 73 | 41N | 55 | 57E | 722485 | 24390 | 113 | 4 | 3 | 58 | 14 | 33 | 2.186 |
| 5 | 5 | 4 | 5.245 | 2805 | 73 | 48.77N | 54 | 51.90E | 73 | 37N | 56 | 34E | 721729 | 24392 | 113 | 41 | 4 | 9 | 14 | 35 | 2.240 |
| 6 | 5 | 4 | 8.016 | 2770 | 73 | 44.27N | 55 | 28.09E | 73 | 32N | 57 | 9E | 720984 | 24394 | 114 | 17 | 4 | 20 | 14 | 36 | 2.268 |
| 7 | 5 | 4 | 10.771 | 2755 | 73 | 39.68N | 56 | 3.75E | 73 | 27N | 57 | 44E | 720243 | 24396 | 114 | 53 | 4 | 30 | 14 | 38 | 2.281 |
| 8 | 5 | 4 | 13.516 | 2745 | 73 | 35.02N | 56 | 38.96E | 73 | 22N | 58 | 18E | 719507 | 24397 | 115 | 28 | 4 | 41 | 14 | 39 | 2.289 |
| 9 | 5 | 4 | 16.250 | 2735 | 73 | 30.27N | 57 | 13.70E | 73 | 17N | 58 | 52E | 718777 | 24399 | 116 | 3 | 4 | 52 | 14 | 40 | 2.297 |
| 10 | 5 | 4 | 18.972 | 2721 | 73 | 25.44N | 57 | 47.95E | 73 | 12N | 59 | 26E | 718045 | 24401 | 116 | 37 | 5 | 3 | 14 | 41 | 2.309 |
| 11 | 5 | 4 | 21.690 | 2719 | 73 | 20.52N | 58 | 21.83E | 73 | 7N | 59 | 59E | 717321 | 24402 | 117 | 10 | 5 | 13 | 14 | 42 | 2.311 |
| 12 | 5 | 4 | 24.405 | 2715 | 73 | 15.52N | 58 | 55.34E | 73 | 2N | 60 | 31E | 716597 | 24404 | 117 | 44 | 5 | 24 | 14 | 43 | 2.314 |
| 13 | 5 | 4 | 27.106 | 2701 | 73 | 10.44N | 59 | 28.35E | 72 | 56N | 61 | 4E | 715878 | 24406 | 118 | 17 | 5 | 35 | 14 | 44 | 2.324 |
| 14 | 5 | 4 | 29.811 | 2704 | 73 | 5.27N | 60 | 1.07E | 72 | 51N | 61 | 35E | 715159 | 24407 | 118 | 49 | 5 | 45 | 14 | 46 | 2.324 |
| 15 | 5 | 4 | 32.506 | 2695 | 73 | 0.03N | 60 | 33.36E | 72 | 45N | 62 | 7E | 714444 | 24409 | 119 | 22 | 5 | 56 | 14 | 47 | 2.331 |
| 16 | 5 | 4 | 35.195 | 2690 | 72 | 54.71N | 61 | 5.25E | 72 | 40N | 62 | 38E | 713732 | 24411 | 119 | 53 | 6 | 6 | 14 | 48 | 2.336 |
| 17 | 5 | 4 | 37.881 | 2685 | 72 | 49.32N | 61 | 36.76E | 72 | 34N | 63 | 9E | 713021 | 24412 | 120 | 25 | 6 | 17 | 14 | 50 | 2.340 |
| 18 | 5 | 4 | 40.561 | 2680 | 72 | 43.85N | 62 | 7.89E | 72 | 29N | 63 | 39E | 712313 | 24414 | 120 | 56 | 6 | 28 | 14 | 51 | 2.344 |
| 19 | 5 | 4 | 43.236 | 2676 | 72 | 38.31N | 62 | 38.64E | 72 | 23N | 64 | 9E | 711608 | 24415 | 121 | 26 | 6 | 38 | 14 | 52 | 2.348 |
| 20 | 5 | 4 | 45.910 | 2674 | 72 | 32.68N | 63 | 9.05E | 72 | 17N | 64 | 39E | 710904 | 24417 | 121 | 57 | 6 | 49 | 14 | 53 | 2.350 |
| 21 | 5 | 4 | 47.950 | 2674 | 70 | 2.30N | 73 | 27.39E | 69 | 43N | 74 | 33E | 699921 | 24454 | 132 | 12 | 10 | 52 | 14 | 41 | 0.101 |
| 22 | 5 | 5 | 51.311 | 3360 | 69 | 53.21N | 73 | 56.38E | 69 | 35N | 75 | 2E | 694075 | 24456 | 132 | 41 | 11 | 5 | 14 | 43 | 1.870 |
| 23 | 5 | 5 | 54.171 | 2860 | 69 | 45.41N | 74 | 20.72E | 69 | 25N | 75 | 25E | 693357 | 24458 | 133 | 5 | 11 | 16 | 14 | 44 | 2.197 |
| 24 | 5 | 5 | 56.881 | 2710 | 69 | 37.96N | 74 | 43.50E | 69 | 18N | 75 | 47E | 692678 | 24459 | 133 | 28 | 11 | 27 | 14 | 46 | 2.319 |
| 25 | 5 | 5 | 59.521 | 2640 | 69 | 30.65N | 75 | 5.43E | 69 | 10N | 76 | 8E | 692019 | 24461 | 133 | 49 | 11 | 37 | 14 | 47 | 2.380 |
| 26 | 5 | 6 | 2.136 | 2615 | 69 | 23.37N | 75 | 26.90E | 69 | 3N | 76 | 29E | 691325 | 24462 | 134 | 11 | 11 | 48 | 14 | 48 | 2.403 |
| 27 | 5 | 6 | 4.730 | 2595 | 69 | 16.09N | 75 | 47.96E | 68 | 55N | 76 | 50E | 690720 | 24464 | 134 | 32 | 11 | 58 | 14 | 50 | 2.421 |
| 28 | 5 | 6 | 7.306 | 2575 | 69 | 8.83N | 76 | 8.63E | 68 | 48N | 77 | 10E | 690001 | 24465 | 134 | 52 | 12 | 8 | 14 | 51 | 2.440 |
| 29 | 5 | 6 | 9.881 | 2575 | 69 | 1.52N | 76 | 29.06E | 68 | 41N | 77 | 29E | 689442 | 24467 | 135 | 13 | 12 | 18 | 14 | 52 | 2.440 |
| 30 | 5 | 6 | 12.445 | 2565 | 68 | 54.20N | 76 | 49.17E | 68 | 35N | 77 | 49E | 688807 | 24468 | 135 | 33 | 12 | 28 | 14 | 53 | 2.450 |
| 31 | 5 | 6 | 15.000 | 2555 | 68 | 46.86N | 77 | 8.98E | 68 | 26N | 78 | 8E | 688177 | 24470 | 135 | 52 | 12 | 38 | 14 | 54 | 2.450 |
| 32 | 5 | 6 | 17.556 | 2555 | 68 | 39.48N | 77 | 28.58E | 68 | 18N | 78 | 27E | 687547 | 24471 | 136 | 12 | 12 | 49 | 14 | 55 | 2.459 |
| 33 | 5 | 6 | 20.105 | 2550 | 68 | 32.08N | 77 | 47.91E | 68 | 10N | 78 | 45E | 686921 | 24472 | 136 | 31 | 12 | 59 | 14 | 57 | 2.464 |
| 34 | 5 | 6 | 22.646 | 2544 | 68 | 24.66N | 78 | 6.96E | 68 | 3N | 79 | 45E | 686298 | 24474 | 136 | 50 | 13 | 9 | 14 | 58 | 2.473 |
| 35 | 5 | 6 | 25.190 | 2544 | 68 | 17.20N | 78 | 25.81E | 67 | 55N | 79 | 22E | 685675 | 24475 | 137 | 8 | 13 | 19 | 14 | 59 | 2.474 |
| 36 | 5 | 6 | 27.730 | 2540 | 68 | 9.71N | 78 | 44.43E | 67 | 48N | 79 | 40E | 685055 | 24477 | 137 | 27 | 13 | 29 | 15 | 0 | 2.470 |
| 37 | 5 | 6 | 30.261 | 2530 | 68 | 2.21N | 79 | 2.77E | 67 | 48N | 79 | 58E | 684438 | 24478 | 137 | 45 | 13 | 39 | 15 | 1 | 2.483 |
| 38 | 5 | 6 | 32.790 | 2530 | 67 | 54.67N | 79 | 20.90E | 67 | 32N | 80 | 15E | 683824 | 24480 | 138 | 3 | 13 | 49 | 15 | 2 | 2.483 |
| 39 | 5 | 6 | 35.315 | 2525 | 67 | 47.12N | 79 | 38.81E | 67 | 25N | 80 | 32E | 683211 | 24481 | 138 | 21 | 13 | 59 | 15 | 3 | 2.488 |
| 40 | 5 | 6 | 37.835 | 2520 | 67 | 39.54N | 79 | 56.47E | 67 | 17N | 80 | 50E | 682601 | 24482 | 138 | 38 | 14 | 9 | 15 | 4 | 2.493 |
| 41 | 5 | 6 | 40.355 | 2520 | 67 | 31.93N | 80 | 13.95E | 67 | 9N | 81 | 6E | 681993 | 24484 | 138 | 56 | 14 | 18 | 15 | 5 | 2.493 |
| 42 | 5 | 6 | 42.865 | 2510 | 67 | 24.32N | 80 | 31.16E | 67 | 2N | 81 | 23E | 681388 | 24485 | 139 | 13 | 14 | 28 | 15 | 6 | 2.503 |
| 43 | 5 | 6 | 45.370 | 2505 | 67 | 16.69N | 80 | 48.15E | 66 | 54N | 81 | 40E | 680786 | 24487 | 139 | 30 | 14 | 38 | 15 | 7 | 2.508 |
| 44 | 5 | 6 | 47.875 | 2505 | 67 | 9.02N | 81 | 4.95E | 66 | 46N | 81 | 56E | 680185 | 24488 | 139 | 46 | 14 | 48 | 15 | 8 | 2.508 |
| 45 | 5 | 6 | 50.375 | 2500 | 67 | 1.34N | 81 | 21.54E | 66 | 38N | 82 | 12E | 679587 | 24489 | 140 | 3 | 14 | 58 | 15 | 9 | 2.513 |

TOP SECRET

HANDLE VIA TALENT-KEYHOLE

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1010 FWD 4MAR65

FRAME EPHEMERIS

MISSION 1017-2

ID 43

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| FRM | HR | MI | SEC | DTIM | CAMERA | | NADIR | | FORMAT | | CENTER | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | |
|-----|----|----|--------|--------|--------|--------|-------|--------|--------|-----|--------|-----|----------|-------|---------|------|-------|------|-----|------|-------|
| | | | | | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | | | | | | | | | DEG |
| 98 | 5 | 9 | 25.526 | 47955 | 58 | 19.22N | 93 | 56.88E | 57 | 54N | 94 | 24E | 645511 | 24569 | 152 | 25 | 25 | 7 | 15 | 10 | 0.131 |
| 89 | 5 | 8 | 37.571 | 402381 | 61 | 8.21N | 98 | 50.75E | 60 | 43N | 91 | 13E | 655335 | 24546 | 149 | 24 | 21 | 59 | 15 | 11 | 2.639 |
| 88 | 5 | 8 | 35.190 | 2380 | 61 | 16.46N | 90 | 40.60E | 60 | 52N | 91 | 13E | 655368 | 24544 | 149 | 14 | 21 | 50 | 15 | 11 | 2.634 |
| 87 | 5 | 8 | 32.811 | 2385 | 61 | 24.69N | 90 | 30.36E | 61 | 0N | 91 | 3E | 656368 | 24544 | 149 | 4 | 21 | 40 | 15 | 11 | 2.629 |
| 86 | 5 | 8 | 30.426 | 2390 | 61 | 32.92N | 90 | 20.01E | 61 | 0N | 90 | 53E | 656877 | 24542 | 148 | 54 | 21 | 31 | 15 | 11 | 2.625 |
| 85 | 5 | 8 | 28.035 | 2395 | 61 | 41.16N | 90 | 9.54E | 61 | 16N | 90 | 33E | 657985 | 24540 | 148 | 33 | 21 | 12 | 15 | 11 | 2.623 |
| 84 | 5 | 8 | 25.641 | 2385 | 61 | 49.39N | 89 | 58.95E | 61 | 25N | 90 | 33E | 657390 | 24541 | 148 | 43 | 21 | 22 | 15 | 11 | 2.623 |
| 83 | 5 | 8 | 23.256 | 2395 | 61 | 57.58N | 89 | 48.30E | 61 | 33N | 90 | 22E | 658419 | 24539 | 148 | 23 | 21 | 3 | 15 | 11 | 2.625 |
| 82 | 5 | 8 | 20.860 | 2394 | 62 | 5.78N | 89 | 48.30E | 61 | 41N | 90 | 12E | 658938 | 24538 | 148 | 12 | 20 | 53 | 15 | 11 | 2.623 |
| 81 | 5 | 8 | 18.467 | 2401 | 62 | 13.97N | 89 | 26.62E | 61 | 49N | 90 | 1E | 659457 | 24536 | 148 | 1 | 20 | 44 | 15 | 11 | 2.618 |
| 80 | 5 | 8 | 16.065 | 2400 | 62 | 22.16N | 89 | 15.59E | 61 | 58N | 89 | 51E | 659980 | 24535 | 147 | 50 | 20 | 35 | 15 | 12 | 2.614 |
| 79 | 5 | 8 | 13.665 | 2404 | 62 | 30.33N | 89 | 4.47E | 62 | 6N | 89 | 40E | 660804 | 24534 | 147 | 39 | 20 | 25 | 15 | 12 | 2.614 |
| 78 | 5 | 8 | 11.262 | 2406 | 62 | 38.50N | 88 | 53.22E | 62 | 14N | 89 | 29E | 661030 | 24533 | 147 | 28 | 20 | 16 | 15 | 12 | 2.611 |
| 77 | 5 | 8 | 8.855 | 2413 | 62 | 46.65N | 88 | 41.85E | 62 | 22N | 89 | 18E | 661558 | 24531 | 147 | 17 | 20 | 6 | 15 | 13 | 2.604 |
| 76 | 5 | 8 | 6.442 | 2407 | 62 | 54.82N | 88 | 30.33E | 62 | 30N | 88 | 7E | 662090 | 24530 | 147 | 6 | 19 | 57 | 15 | 13 | 2.604 |
| 75 | 5 | 8 | 4.035 | 2415 | 63 | 2.94N | 88 | 18.73E | 62 | 38N | 88 | 56E | 662622 | 24529 | 146 | 55 | 19 | 47 | 15 | 14 | 2.602 |
| 74 | 5 | 8 | 1.620 | 2415 | 63 | 11.08N | 88 | 6.99E | 62 | 47N | 88 | 45E | 663157 | 24528 | 146 | 43 | 19 | 38 | 15 | 14 | 2.602 |
| 73 | 5 | 7 | 59.780 | 2425 | 63 | 19.19N | 87 | 55.12E | 62 | 55N | 88 | 33E | 663693 | 24526 | 146 | 31 | 19 | 29 | 15 | 15 | 2.591 |
| 72 | 5 | 7 | 56.780 | 2415 | 63 | 27.32N | 87 | 43.09E | 63 | 3N | 88 | 22E | 664233 | 24525 | 146 | 19 | 19 | 19 | 15 | 15 | 2.602 |
| 71 | 5 | 7 | 54.365 | 2429 | 63 | 35.40N | 87 | 30.99E | 63 | 11N | 88 | 10E | 664772 | 24524 | 146 | 8 | 19 | 10 | 15 | 16 | 2.587 |
| 70 | 5 | 7 | 51.937 | 2431 | 63 | 43.50N | 87 | 18.70E | 63 | 19N | 87 | 58E | 665316 | 24523 | 145 | 55 | 19 | 0 | 15 | 17 | 2.585 |
| 69 | 5 | 7 | 49.506 | 2430 | 63 | 51.55N | 86 | 53.73E | 63 | 35N | 87 | 46E | 665862 | 24521 | 145 | 43 | 18 | 50 | 15 | 17 | 2.586 |
| 68 | 5 | 7 | 47.075 | 2430 | 63 | 59.66N | 86 | 41.07E | 63 | 44N | 87 | 34E | 666410 | 24519 | 145 | 18 | 18 | 41 | 15 | 18 | 2.586 |
| 67 | 5 | 7 | 44.646 | 2435 | 64 | 7.71N | 86 | 28.24E | 63 | 52N | 87 | 22E | 666958 | 24518 | 145 | 6 | 18 | 22 | 15 | 19 | 2.588 |
| 66 | 5 | 7 | 42.210 | 2440 | 64 | 15.75N | 86 | 15.26E | 64 | 0N | 86 | 57E | 667510 | 24518 | 145 | 53 | 18 | 12 | 15 | 20 | 2.575 |
| 65 | 5 | 7 | 39.771 | 2440 | 64 | 23.79N | 86 | 2.15E | 64 | 0N | 86 | 57E | 668064 | 24516 | 144 | 53 | 18 | 12 | 15 | 20 | 2.575 |
| 64 | 5 | 7 | 37.330 | 2445 | 64 | 31.81N | 86 | 2.15E | 64 | 0N | 86 | 45E | 668619 | 24515 | 144 | 40 | 18 | 3 | 15 | 20 | 2.570 |
| 63 | 5 | 7 | 34.886 | 2450 | 64 | 39.82N | 85 | 48.88E | 64 | 16N | 86 | 32E | 669177 | 24514 | 144 | 27 | 17 | 53 | 15 | 20 | 2.565 |
| 62 | 5 | 7 | 32.436 | 2455 | 64 | 47.82N | 85 | 35.44E | 64 | 24N | 86 | 19E | 669738 | 24512 | 144 | 14 | 17 | 43 | 15 | 20 | 2.559 |
| 61 | 5 | 7 | 29.980 | 2455 | 64 | 55.82N | 85 | 21.83E | 64 | 32N | 85 | 6E | 670302 | 24511 | 144 | 0 | 17 | 34 | 15 | 20 | 2.559 |
| 60 | 5 | 7 | 27.525 | 2455 | 65 | 3.79N | 85 | 8.09E | 64 | 48N | 85 | 53E | 670866 | 24510 | 143 | 47 | 17 | 24 | 15 | 20 | 2.559 |
| 59 | 5 | 7 | 25.070 | 2465 | 65 | 11.74N | 84 | 54.20E | 64 | 48N | 85 | 39E | 671432 | 24508 | 143 | 33 | 17 | 14 | 15 | 20 | 2.549 |
| 58 | 5 | 7 | 22.605 | 2460 | 65 | 19.70N | 84 | 40.11E | 64 | 56N | 85 | 26E | 672003 | 24507 | 143 | 19 | 17 | 5 | 15 | 20 | 2.554 |
| 57 | 5 | 7 | 20.146 | 2465 | 65 | 27.62N | 84 | 25.90E | 65 | 4N | 85 | 12E | 672573 | 24506 | 143 | 5 | 16 | 55 | 15 | 19 | 2.549 |
| 56 | 5 | 7 | 17.681 | 2469 | 65 | 35.53N | 84 | 11.51E | 65 | 12N | 84 | 58E | 673146 | 24504 | 142 | 51 | 16 | 45 | 15 | 19 | 2.545 |
| 55 | 5 | 7 | 15.212 | 2466 | 65 | 43.42N | 83 | 56.95E | 65 | 20N | 84 | 44E | 673721 | 24503 | 142 | 36 | 16 | 36 | 15 | 19 | 2.548 |
| 54 | 5 | 7 | 12.745 | 2475 | 65 | 51.29N | 83 | 42.25E | 65 | 28N | 84 | 30E | 674297 | 24502 | 142 | 22 | 16 | 26 | 15 | 17 | 2.539 |
| 53 | 5 | 7 | 10.271 | 2480 | 65 | 59.15N | 83 | 27.34E | 65 | 36N | 84 | 15E | 674876 | 24500 | 142 | 7 | 16 | 16 | 15 | 16 | 2.534 |
| 52 | 5 | 7 | 7.790 | 2480 | 66 | 7.00N | 83 | 12.24E | 65 | 44N | 84 | 0E | 675452 | 24499 | 141 | 52 | 16 | 6 | 15 | 16 | 2.534 |
| 51 | 5 | 7 | 5.311 | 2485 | 66 | 14.83N | 82 | 56.98E | 65 | 52N | 83 | 46E | 676042 | 24498 | 141 | 37 | 15 | 57 | 15 | 14 | 2.528 |
| 50 | 5 | 7 | 2.825 | 2485 | 66 | 22.64N | 82 | 41.53E | 66 | 0N | 83 | 31E | 676628 | 24496 | 141 | 22 | 15 | 47 | 15 | 14 | 2.528 |
| 49 | 5 | 7 | 0.341 | 2490 | 66 | 30.42N | 82 | 25.91E | 66 | 7N | 83 | 15E | 677216 | 24495 | 141 | 6 | 15 | 37 | 15 | 13 | 2.523 |
| 48 | 5 | 6 | 57.851 | 2490 | 66 | 38.19N | 82 | 10.88E | 66 | 15N | 83 | 0E | 677806 | 24494 | 140 | 51 | 15 | 27 | 15 | 12 | 2.523 |
| 47 | 5 | 6 | 55.360 | 2490 | 66 | 45.93N | 81 | 54.09E | 66 | 23N | 82 | 44E | 678398 | 24492 | 140 | 35 | 15 | 18 | 15 | 11 | 2.518 |
| 46 | 5 | 6 | 52.870 | 2495 | 66 | 53.65N | 81 | 37.92E | 66 | 31N | 82 | 28E | 678991 | 24491 | 140 | 19 | 15 | 8 | 15 | 10 | 2.518 |
| 45 | 5 | 6 | 50.380 | 2495 | 66 | 61.37N | 81 | 21.83E | 66 | 39N | 82 | 20E | 679583 | 24490 | 140 | 3 | 15 | 0 | 15 | 10 | 2.518 |

TOP SECRET

HANDLE VIA

PASS 1010 FWD 4MAR65

FRAME EPHEMERIS

MISSION 1017-2

ID 43

LIST DATE 10MAY65

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| FRM | Z TIME | DTIM | CAMERA NADIR | | FORMAT CENTER | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | | | | | | | | | |
|-----|--------|------|--------------|------|---------------|--------|----------|--------|---------|------|-------|------|--------|--------|-------|-----|----|----|----|----|----|----|----|-------|-------|
| HR | MI | SEC | DEG | LAT | DEG | LAT | FEET | F/S | DEG | MI | DEG | MIN | DEG | RATE | | | | | | | | | | | |
| 91 | 5 | 9 | 26 | 710 | 3184 | 58 | 7.83N | 94 | 8.12E | 57 | 43N | 94 | 35E | 644882 | 24570 | 152 | 36 | 25 | 20 | 15 | 9 | 0 | 13 | ND | 1.97 |
| 92 | 5 | 9 | 31 | 360 | 2650 | 57 | 58.33N | 94 | 17.37E | 57 | 33N | 94 | 44E | 644360 | 24572 | 152 | 45 | 25 | 30 | 15 | 9 | 0 | 10 | ND | 2.371 |
| 93 | 5 | 9 | 33 | 847 | 2486 | 57 | 49.40N | 94 | 25.98E | 57 | 24N | 94 | 52E | 645073 | 24573 | 152 | 53 | 25 | 40 | 15 | 9 | 0 | 7 | ND | 2.527 |
| 94 | 5 | 9 | 36 | 266 | 2419 | 57 | 40.71N | 94 | 34.28E | 57 | 16N | 95 | 0E | 643400 | 24574 | 153 | 1 | 25 | 50 | 15 | 9 | 0 | 5 | ND | 2.597 |
| 95 | 5 | 9 | 38 | 641 | 2375 | 57 | 32.16N | 94 | 42.36E | 57 | 7N | 95 | 8E | 642939 | 24575 | 153 | 9 | 25 | 59 | 15 | 9 | 0 | 3 | ND | 2.646 |
| 96 | 5 | 9 | 41 | 000 | 2360 | 57 | 23.66N | 94 | 50.32E | 56 | 58N | 95 | 16E | 642481 | 24576 | 153 | 17 | 26 | 8 | 15 | 9 | 0 | 0 | ND | 2.662 |
| 97 | 5 | 9 | 43 | 346 | 2345 | 57 | 15.20N | 94 | 58.17E | 56 | 50N | 95 | 23E | 642028 | 24577 | 153 | 25 | 26 | 17 | 15 | 9 | 0 | 2 | ND | 2.679 |
| 98 | 5 | 9 | 45 | 686 | 2340 | 57 | 6.75N | 95 | 5.94E | 56 | 41N | 95 | 31E | 641578 | 24578 | 153 | 32 | 26 | 27 | 15 | 9 | 0 | 3 | ND | 2.685 |
| 99 | 5 | 9 | 48 | 021 | 2335 | 56 | 58.31N | 95 | 13.63E | 56 | 33N | 95 | 38E | 641130 | 24579 | 153 | 40 | 26 | 36 | 15 | 9 | 0 | 5 | ND | 2.691 |
| 100 | 5 | 9 | 50 | 355 | 2335 | 56 | 49.86N | 95 | 21.25E | 56 | 24N | 95 | 45E | 640684 | 24580 | 153 | 47 | 26 | 45 | 15 | 9 | 0 | 6 | ND | 2.691 |
| 101 | 5 | 9 | 52 | 681 | 2325 | 56 | 41.43N | 95 | 28.79E | 56 | 16N | 95 | 53E | 640243 | 24581 | 153 | 54 | 26 | 54 | 15 | 9 | 0 | 9 | ND | 2.702 |
| 102 | 5 | 9 | 55 | 000 | 2320 | 56 | 33.02N | 95 | 36.24E | 56 | 8N | 96 | 0E | 639804 | 24582 | 154 | 1 | 27 | 3 | 15 | 10 | 0 | 10 | ND | 2.708 |
| 103 | 5 | 9 | 57 | 315 | 2315 | 56 | 24.61N | 95 | 43.63E | 55 | 59N | 96 | 7E | 639367 | 24583 | 154 | 8 | 27 | 12 | 15 | 10 | 0 | 12 | ND | 2.714 |
| 104 | 5 | 9 | 59 | 636 | 2310 | 56 | 16.18N | 95 | 50.97E | 55 | 51N | 96 | 14E | 638931 | 24584 | 154 | 16 | 27 | 21 | 15 | 10 | 0 | 13 | ND | 2.720 |
| 105 | 5 | 10 | 1.945 | 2310 | 56 | 7.77N | 95 | 58.22E | 55 | 42N | 96 | 21E | 638498 | 24585 | 154 | 23 | 27 | 31 | 15 | 10 | 0 | 14 | ND | 2.726 | |
| 106 | 5 | 10 | 4.256 | 2310 | 55 | 59.35N | 96 | 5.42E | 55 | 34N | 96 | 28E | 638068 | 24586 | 154 | 29 | 27 | 40 | 15 | 11 | 0 | 14 | ND | 2.732 | |
| 107 | 5 | 10 | 6.570 | 2315 | 55 | 50.91N | 96 | 12.57E | 55 | 25N | 96 | 35E | 637638 | 24587 | 154 | 36 | 27 | 49 | 15 | 11 | 0 | 14 | ND | 2.738 | |
| 108 | 5 | 10 | 8.881 | 2310 | 55 | 42.48N | 96 | 19.65E | 55 | 17N | 96 | 42E | 637211 | 24588 | 154 | 43 | 27 | 58 | 15 | 11 | 0 | 15 | ND | 2.744 | |
| 109 | 5 | 10 | 11.186 | 2305 | 55 | 34.06N | 96 | 26.67E | 55 | 8N | 96 | 49E | 636766 | 24589 | 154 | 50 | 28 | 7 | 15 | 12 | 0 | 15 | ND | 2.750 | |
| 110 | 5 | 10 | 13.490 | 2305 | 55 | 25.63N | 96 | 33.63E | 55 | 0N | 96 | 55E | 636363 | 24590 | 154 | 57 | 28 | 16 | 15 | 12 | 0 | 15 | ND | 2.756 | |
| 111 | 5 | 10 | 15.791 | 2301 | 55 | 17.21N | 96 | 40.52E | 54 | 52N | 97 | 2E | 635943 | 24591 | 155 | 3 | 28 | 25 | 15 | 12 | 0 | 16 | ND | 2.762 | |
| 112 | 5 | 10 | 18.091 | 2299 | 55 | 8.78N | 96 | 47.36E | 54 | 43N | 97 | 9E | 635525 | 24592 | 155 | 10 | 28 | 34 | 15 | 13 | 0 | 16 | ND | 2.768 | |
| 113 | 5 | 10 | 20.386 | 2295 | 55 | 0.36N | 96 | 54.14E | 54 | 35N | 97 | 15E | 635109 | 24593 | 155 | 16 | 28 | 43 | 15 | 13 | 0 | 17 | ND | 2.773 | |
| 114 | 5 | 10 | 22.676 | 2290 | 54 | 51.95N | 97 | 0.84E | 54 | 26N | 97 | 22E | 634696 | 24594 | 155 | 23 | 28 | 52 | 15 | 14 | 0 | 17 | ND | 2.779 | |
| 115 | 5 | 10 | 24.967 | 2291 | 54 | 43.53N | 97 | 7.50E | 54 | 18N | 97 | 28E | 634284 | 24595 | 155 | 29 | 29 | 1 | 15 | 14 | 0 | 17 | ND | 2.785 | |
| 116 | 5 | 10 | 27.261 | 2294 | 54 | 35.10N | 97 | 14.13E | 54 | 9N | 97 | 35E | 633874 | 24596 | 155 | 35 | 29 | 10 | 15 | 14 | 0 | 18 | ND | 2.791 | |
| 117 | 5 | 10 | 29.556 | 2295 | 54 | 26.65N | 97 | 21.21E | 54 | 1N | 97 | 41E | 633466 | 24597 | 155 | 42 | 29 | 19 | 15 | 15 | 0 | 18 | ND | 2.797 | |
| 118 | 5 | 10 | 31.846 | 2290 | 54 | 18.21N | 97 | 27.66E | 53 | 52N | 97 | 48E | 633055 | 24598 | 155 | 48 | 29 | 28 | 15 | 15 | 0 | 18 | ND | 2.803 | |
| 119 | 5 | 10 | 34.131 | 2285 | 54 | 9.78N | 97 | 34.06E | 53 | 44N | 97 | 54E | 632645 | 24599 | 155 | 54 | 29 | 37 | 15 | 16 | 0 | 18 | ND | 2.809 | |
| 120 | 5 | 10 | 36.415 | 2285 | 54 | 1.35N | 97 | 40.86E | 53 | 35N | 98 | 0E | 632234 | 24600 | 156 | 0 | 29 | 46 | 15 | 16 | 0 | 18 | ND | 2.815 | |
| 121 | 5 | 10 | 38.701 | 2286 | 53 | 52.91N | 97 | 46.42E | 53 | 27N | 98 | 6E | 631824 | 24601 | 156 | 6 | 29 | 55 | 15 | 18 | 0 | 18 | ND | 2.821 | |
| 122 | 5 | 10 | 41.190 | 2261 | 23 | 22.98N | 110 | 29.72E | 22 | 57N | 110 | 38E | 595590 | 24602 | 166 | 51 | 59 | 59 | 15 | 32 | 0 | 0 | 0 | ND | 2.827 |
| 123 | 5 | 18 | 43.4825 | 3063 | 23 | 10.82N | 110 | 32.79E | 22 | 45N | 110 | 41E | 595170 | 24603 | 166 | 58 | 60 | 10 | 15 | 32 | 0 | 0 | 0 | ND | 2.833 |
| 124 | 5 | 18 | 45.8686 | 2525 | 23 | 0.79N | 110 | 35.31E | 22 | 35N | 110 | 44E | 595797 | 24604 | 166 | 66 | 60 | 19 | 15 | 34 | 0 | 0 | 0 | ND | 2.839 |
| 125 | 5 | 18 | 48.2551 | 2372 | 22 | 51.37N | 110 | 37.67E | 22 | 25N | 110 | 46E | 595797 | 24605 | 166 | 73 | 60 | 28 | 15 | 34 | 0 | 0 | 0 | ND | 2.845 |
| 126 | 5 | 18 | 50.6445 | 2268 | 22 | 42.37N | 110 | 39.93E | 22 | 16N | 110 | 48E | 595989 | 24606 | 166 | 80 | 60 | 36 | 15 | 35 | 0 | 0 | 0 | ND | 2.851 |
| 127 | 5 | 18 | 53.0345 | 2245 | 22 | 33.41N | 110 | 42.16E | 22 | 7N | 110 | 50E | 596074 | 24607 | 166 | 88 | 60 | 44 | 15 | 36 | 0 | 0 | 0 | ND | 2.857 |
| 128 | 5 | 18 | 55.4245 | 2245 | 22 | 24.51N | 110 | 44.37E | 21 | 58N | 110 | 53E | 596169 | 24608 | 167 | 96 | 60 | 52 | 15 | 37 | 0 | 0 | 0 | ND | 2.863 |
| 129 | 5 | 18 | 57.8146 | 2235 | 22 | 15.63N | 110 | 46.57E | 21 | 49N | 110 | 55E | 596267 | 24609 | 167 | 1 | 61 | 0 | 15 | 38 | 0 | 0 | 0 | ND | 2.869 |
| 130 | 5 | 18 | 60.2046 | 2225 | 22 | 6.79N | 110 | 48.76E | 21 | 40N | 110 | 57E | 596367 | 24610 | 167 | 3 | 61 | 8 | 15 | 39 | 0 | 0 | 0 | ND | 2.875 |
| 131 | 5 | 18 | 62.5946 | 2216 | 21 | 57.99N | 110 | 50.93E | 21 | 32N | 110 | 59E | 596469 | 24611 | 167 | 4 | 61 | 16 | 15 | 39 | 0 | 0 | 0 | ND | 2.881 |
| 132 | 5 | 18 | 64.9846 | 2219 | 21 | 49.17N | 110 | 53.10E | 21 | 23N | 111 | 1E | 596573 | 24612 | 167 | 5 | 61 | 24 | 15 | 40 | 0 | 0 | 0 | ND | 2.887 |
| 133 | 5 | 18 | 67.3746 | 2225 | 21 | 40.33N | 110 | 55.27E | 21 | 14N | 111 | 4E | 596682 | 24613 | 167 | 6 | 61 | 31 | 15 | 41 | 0 | 0 | 0 | ND | 2.893 |
| 134 | 5 | 18 | 69.7646 | 2220 | 21 | 31.50N | 110 | 57.42E | 21 | 5N | 111 | 6E | 596791 | 24614 | 167 | 7 | 61 | 39 | 15 | 42 | 0 | 0 | 0 | ND | 2.899 |
| 135 | 5 | 19 | 72.1546 | 2215 | 21 | 22.70N | 110 | 59.57E | 20 | 56N | 111 | 8E | 596904 | 24615 | 167 | 9 | 61 | 47 | 15 | 42 | 0 | 0 | 0 | ND | 2.905 |

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED
UP SECRET

MISSION 1017-2

LIST DATE 10MAY65

PASS 1910 FWD 4MAR65

| FRM | 2 TIME | | DTIM | CAMERA NADIR | | FORMAT CENTER | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | | |
|-----|--------|----|--------|--------------|------|---------------|-----|----------|--------|---------|------|-------|------|-----|------|-----|-----|------|-------|
| | HR | MI | | SEC | MILS | DEG | MIN | | | | | | | | | DEG | MIN | FEET | F/S |
| 136 | 5 | 19 | 3.455 | 2215 | 21 | 13.98N | 111 | 1.71E | 597018 | 24685 | 167 | 10 | 61 | 55 | 15 | 43 | 0 | 4 | 2.837 |
| 137 | 5 | 19 | 5.676 | 2220 | 21 | 5.07N | 111 | 3.86E | 597136 | 24685 | 167 | 11 | 62 | 3 | 15 | 44 | 0 | 3 | 2.830 |
| 138 | 5 | 19 | 7.891 | 2215 | 20 | 56.26N | 111 | 5.99E | 597257 | 24685 | 167 | 12 | 62 | 10 | 15 | 45 | 0 | 3 | 2.837 |
| 139 | 5 | 19 | 10.105 | 2215 | 20 | 47.45N | 111 | 8.12E | 597379 | 24685 | 167 | 13 | 62 | 18 | 15 | 45 | 0 | 3 | 2.837 |
| 140 | 5 | 19 | 12.320 | 2215 | 20 | 38.65N | 111 | 10.24E | 597505 | 24684 | 167 | 14 | 62 | 26 | 15 | 46 | 0 | 3 | 2.837 |
| 141 | 5 | 19 | 14.541 | 2221 | 20 | 29.82N | 111 | 12.36E | 597633 | 24684 | 167 | 16 | 62 | 34 | 15 | 46 | 0 | 3 | 2.829 |
| 142 | 5 | 19 | 16.757 | 2215 | 20 | 21.00N | 111 | 14.47E | 597763 | 24684 | 167 | 17 | 62 | 41 | 15 | 46 | 0 | 3 | 2.837 |
| 143 | 5 | 19 | 18.971 | 2216 | 20 | 12.20N | 111 | 16.58E | 597896 | 24683 | 167 | 17 | 62 | 49 | 15 | 46 | 0 | 2 | 2.838 |
| 144 | 5 | 19 | 21.187 | 2216 | 20 | 3.38N | 111 | 18.68E | 598032 | 24683 | 167 | 19 | 62 | 57 | 15 | 47 | 0 | 2 | 2.835 |
| 145 | 5 | 19 | 23.400 | 2214 | 19 | 54.58N | 111 | 20.77E | 598170 | 24683 | 167 | 20 | 63 | 4 | 15 | 47 | 0 | 2 | 2.838 |
| 146 | 5 | 19 | 25.615 | 2215 | 19 | 45.76N | 111 | 22.86E | 598311 | 24682 | 167 | 21 | 63 | 12 | 15 | 47 | 0 | 1 | 2.837 |
| 147 | 5 | 19 | 27.825 | 2210 | 19 | 36.97N | 111 | 24.94E | 598454 | 24682 | 167 | 22 | 63 | 20 | 15 | 47 | 0 | 1 | 2.843 |
| 148 | 5 | 19 | 30.035 | 2210 | 19 | 28.18N | 111 | 27.02E | 598600 | 24682 | 167 | 23 | 63 | 27 | 15 | 47 | 0 | 1 | 2.843 |
| 149 | 5 | 19 | 32.256 | 2220 | 19 | 19.34N | 111 | 29.10E | 598748 | 24681 | 167 | 24 | 63 | 35 | 15 | 47 | 0 | 1 | 2.830 |
| 150 | 5 | 19 | 34.466 | 2210 | 19 | 10.55N | 111 | 31.17E | 598899 | 24681 | 167 | 25 | 63 | 42 | 15 | 46 | 0 | 1 | 2.843 |
| 151 | 5 | 19 | 36.682 | 2209 | 19 | 1.73N | 111 | 33.24E | 599053 | 24681 | 167 | 26 | 63 | 50 | 15 | 46 | 0 | 1 | 2.844 |
| 152 | 5 | 19 | 38.891 | 2209 | 18 | 52.94N | 111 | 35.30E | 599208 | 24680 | 167 | 28 | 63 | 57 | 15 | 45 | 0 | 1 | 2.844 |
| 153 | 5 | 19 | 41.105 | 2215 | 18 | 44.12N | 111 | 37.35E | 599368 | 24680 | 167 | 29 | 64 | 5 | 15 | 45 | 0 | 2 | 2.837 |
| 154 | 5 | 19 | 43.320 | 2215 | 18 | 35.30N | 111 | 39.41E | 599529 | 24680 | 167 | 30 | 64 | 12 | 15 | 45 | 0 | 2 | 2.837 |
| 155 | 5 | 19 | 45.535 | 2215 | 18 | 26.49N | 111 | 41.46E | 599693 | 24679 | 167 | 31 | 64 | 20 | 15 | 44 | 0 | 3 | 2.837 |
| 156 | 5 | 19 | 47.745 | 2210 | 18 | 17.69N | 111 | 43.50E | 599859 | 24679 | 167 | 32 | 64 | 27 | 15 | 44 | 0 | 3 | 2.843 |
| 157 | 5 | 19 | 49.960 | 2215 | 18 | 8.87N | 111 | 45.54E | 600029 | 24679 | 167 | 33 | 64 | 35 | 15 | 44 | 0 | 3 | 2.837 |
| 158 | 5 | 19 | 52.176 | 2215 | 18 | 0.05N | 111 | 47.57E | 600200 | 24678 | 167 | 34 | 64 | 42 | 15 | 43 | 0 | 4 | 2.837 |
| 159 | 5 | 19 | 54.392 | 2219 | 17 | 51.22N | 111 | 49.60E | 600375 | 24678 | 167 | 34 | 64 | 50 | 15 | 43 | 0 | 5 | 2.835 |
| 160 | 5 | 19 | 56.610 | 2216 | 17 | 42.39N | 111 | 51.64E | 600552 | 24677 | 167 | 35 | 64 | 57 | 15 | 42 | 0 | 5 | 2.832 |
| 161 | 5 | 19 | 58.821 | 2211 | 17 | 33.58N | 111 | 53.65E | 600732 | 24677 | 167 | 36 | 65 | 5 | 15 | 42 | 0 | 7 | 2.842 |
| 162 | 5 | 20 | 1.035 | 2214 | 17 | 24.77N | 111 | 55.67E | 600914 | 24677 | 167 | 37 | 65 | 12 | 15 | 41 | 0 | 7 | 2.838 |
| 163 | 5 | 20 | 3.256 | 2220 | 17 | 15.92N | 111 | 57.69E | 601099 | 24676 | 167 | 38 | 65 | 19 | 15 | 40 | 0 | 8 | 2.830 |
| 164 | 5 | 20 | 5.471 | 2215 | 17 | 7.10N | 111 | 59.70E | 601286 | 24676 | 167 | 39 | 65 | 27 | 15 | 39 | 0 | 8 | 2.837 |
| 165 | 5 | 20 | 7.682 | 2211 | 16 | 58.29N | 112 | 1.70E | 601476 | 24675 | 167 | 40 | 65 | 34 | 15 | 38 | 0 | 9 | 2.842 |
| 166 | 5 | 20 | 9.896 | 2214 | 16 | 49.47N | 112 | 3.71E | 601669 | 24675 | 167 | 41 | 65 | 41 | 15 | 37 | 0 | 10 | 2.838 |

Approved For

TOP SECRET

HANDL E NTA

PASS 1020 FWD 4MAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65 PAGE 30

| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | |
|-------|--------|--------|--------|--------|--------|--------|----------|-------|---------|--------|---------|---------|---------|------|-------|
| HR MI | SEC | MILES | LAT | LONG | LAT | LONG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE | |
| 1 | 6 36 | 1.130 | 69 | 35.69E | 68 | 34E | 6809222 | 24467 | 134 | 59 | 12 | 9 | 14 | 25 | 1.011 |
| 2 | 6 36 | 4.600 | 68 | 3.04E | 68 | 0E | 688166 | 24469 | 135 | 27 | 12 | 22 | 14 | 26 | 1.011 |
| 3 | 6 36 | 7.484 | 68 | 25.47E | 68 | 22E | 687456 | 24471 | 135 | 49 | 12 | 34 | 14 | 26 | 2.178 |
| 4 | 6 36 | 10.199 | 68 | 40.89N | 68 | 19N | 686790 | 24472 | 136 | 10 | 12 | 45 | 14 | 26 | 2.314 |
| 5 | 6 36 | 12.845 | 68 | 32.41N | 68 | 11N | 686142 | 24474 | 136 | 30 | 12 | 55 | 14 | 26 | 2.375 |
| 6 | 6 36 | 15.459 | 68 | 24.78N | 68 | 4N | 685503 | 24475 | 136 | 49 | 13 | 5 | 14 | 26 | 2.403 |
| 7 | 6 36 | 18.055 | 68 | 17.17N | 68 | 56N | 684870 | 24477 | 137 | 8 | 13 | 15 | 14 | 26 | 2.421 |
| 8 | 6 36 | 20.640 | 68 | 9.55N | 68 | 48N | 684241 | 24478 | 137 | 27 | 13 | 26 | 14 | 27 | 2.431 |
| 9 | 6 36 | 23.209 | 68 | 1.93N | 68 | 41N | 683618 | 24480 | 137 | 45 | 13 | 36 | 14 | 27 | 2.445 |
| 10 | 6 36 | 25.779 | 67 | 54.27N | 67 | 33E | 682995 | 24481 | 138 | 4 | 13 | 46 | 14 | 27 | 2.445 |
| 11 | 6 36 | 28.340 | 67 | 46.61N | 67 | 25N | 682377 | 24483 | 138 | 22 | 13 | 56 | 14 | 27 | 2.454 |
| 12 | 6 36 | 30.895 | 67 | 38.93N | 67 | 17N | 681761 | 24484 | 138 | 39 | 14 | 6 | 14 | 28 | 2.459 |
| 13 | 6 36 | 33.444 | 67 | 31.22N | 67 | 10N | 681147 | 24486 | 138 | 57 | 14 | 16 | 14 | 28 | 2.464 |
| 14 | 6 36 | 35.989 | 67 | 23.50N | 67 | 2N | 680537 | 24487 | 139 | 14 | 14 | 26 | 14 | 29 | 2.469 |
| 15 | 6 36 | 38.534 | 67 | 15.75N | 66 | 54N | 679927 | 24488 | 139 | 31 | 14 | 36 | 14 | 29 | 2.469 |
| 16 | 6 36 | 41.069 | 67 | 7.99N | 66 | 46N | 679322 | 24490 | 139 | 48 | 14 | 46 | 14 | 30 | 2.479 |
| 17 | 6 36 | 43.600 | 67 | 0.21N | 66 | 38N | 678719 | 24491 | 140 | 5 | 14 | 56 | 14 | 31 | 2.483 |
| 18 | 6 36 | 46.130 | 66 | 52.40N | 66 | 30N | 678119 | 24493 | 140 | 21 | 15 | 6 | 14 | 31 | 2.483 |
| 19 | 6 36 | 48.654 | 66 | 44.58N | 66 | 22N | 677519 | 24494 | 140 | 37 | 15 | 16 | 14 | 32 | 2.488 |
| 20 | 6 36 | 51.169 | 66 | 36.75N | 66 | 15N | 676924 | 24495 | 140 | 53 | 15 | 26 | 14 | 33 | 2.498 |
| 21 | 6 36 | 53.686 | 66 | 28.89N | 66 | 7N | 676330 | 24497 | 141 | 9 | 15 | 36 | 14 | 33 | 2.497 |
| 22 | 6 36 | 56.199 | 66 | 21.01N | 66 | 0E | 675738 | 24498 | 141 | 25 | 15 | 46 | 14 | 34 | 2.499 |
| 23 | 6 36 | 58.709 | 66 | 13.12N | 66 | 0E | 675149 | 24499 | 141 | 40 | 15 | 55 | 14 | 34 | 2.503 |
| 24 | 6 37 | 1.209 | 66 | 5.23N | 66 | 0E | 674563 | 24501 | 141 | 55 | 16 | 5 | 14 | 35 | 2.513 |
| 25 | 6 37 | 3.709 | 65 | 57.30N | 66 | 35N | 673979 | 24502 | 142 | 10 | 16 | 15 | 14 | 36 | 2.513 |
| 26 | 6 37 | 6.209 | 65 | 49.35N | 65 | 27N | 673396 | 24504 | 142 | 25 | 16 | 25 | 14 | 37 | 2.513 |
| 27 | 6 37 | 8.709 | 65 | 41.58N | 65 | 19N | 672815 | 24505 | 142 | 40 | 16 | 35 | 14 | 37 | 2.513 |
| 28 | 6 37 | 11.195 | 65 | 33.42N | 65 | 11N | 672239 | 24506 | 142 | 54 | 16 | 45 | 14 | 38 | 2.527 |
| 29 | 6 37 | 13.685 | 65 | 25.43N | 65 | 3N | 671662 | 24508 | 143 | 9 | 16 | 55 | 14 | 39 | 2.524 |
| 30 | 6 37 | 16.169 | 65 | 17.42N | 62 | 46E | 671089 | 24509 | 143 | 23 | 17 | 4 | 14 | 39 | 2.528 |
| 31 | 6 37 | 18.654 | 65 | 9.39N | 62 | 0E | 670517 | 24510 | 143 | 37 | 17 | 14 | 14 | 40 | 2.528 |
| 32 | 6 37 | 21.136 | 65 | 1.35N | 62 | 38N | 669948 | 24512 | 143 | 51 | 17 | 24 | 14 | 41 | 2.535 |
| 33 | 6 37 | 23.614 | 64 | 53.29N | 63 | 27E | 669380 | 24513 | 144 | 4 | 17 | 34 | 14 | 41 | 2.535 |
| 34 | 6 37 | 26.090 | 64 | 45.22N | 62 | 40E | 668815 | 24514 | 144 | 18 | 17 | 43 | 14 | 41 | 2.539 |
| 35 | 6 37 | 28.560 | 64 | 37.14N | 62 | 53E | 668253 | 24516 | 144 | 31 | 17 | 53 | 14 | 42 | 2.544 |
| 36 | 6 37 | 31.024 | 64 | 29.06N | 63 | 6E | 667693 | 24517 | 144 | 44 | 18 | 3 | 14 | 43 | 2.549 |
| 37 | 6 37 | 33.485 | 64 | 20.97N | 63 | 19E | 667136 | 24518 | 144 | 57 | 18 | 13 | 14 | 43 | 2.553 |
| 38 | 6 37 | 35.945 | 64 | 12.86N | 63 | 31E | 666580 | 24519 | 145 | 10 | 18 | 22 | 14 | 44 | 2.554 |
| 39 | 6 39 | 34.919 | 57 | 19.84N | 63 | 38E | 641661 | 24578 | 153 | 20 | 26 | 10 | 14 | 46 | 0.053 |
| 40 | 6 39 | 38.090 | 57 | 8.39N | 63 | 48E | 641053 | 24579 | 153 | 30 | 26 | 23 | 14 | 46 | 1.982 |
| 41 | 6 39 | 40.744 | 56 | 58.88N | 63 | 57E | 640547 | 24580 | 153 | 39 | 26 | 33 | 14 | 47 | 2.367 |
| 42 | 6 39 | 43.239 | 56 | 49.77N | 63 | 57E | 640073 | 24581 | 153 | 47 | 26 | 43 | 14 | 48 | 2.518 |
| 43 | 6 39 | 45.681 | 56 | 40.92N | 63 | 12E | 639612 | 24583 | 153 | 54 | 26 | 53 | 14 | 49 | 2.574 |
| 44 | 6 39 | 48.055 | 56 | 32.31N | 63 | 20E | 639164 | 24584 | 154 | 2 | 27 | 2 | 14 | 49 | 2.647 |
| 45 | 6 39 | 50.414 | 56 | 23.74N | 63 | 27E | 638722 | 24585 | 154 | 9 | 27 | 11 | 14 | 50 | 2.662 |

TOP SECRET
GENERAL HANDLING REQUIRED

HANDLE VIA
TALFNT-KEYHOLE

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1020 FWD 4MARS5

FRAME EPHMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65

PAGE

31

| FRM | 2 TIME | DTM | CAMERA | NADIR | FORMAT | GENTER | ALTITUDE | VELOC | AZIMUTH | SUNV | PITCH | ROLL | YAW | SCAN | | | | | | | | | | |
|-----|--------|-----|--------|-------|--------|--------|----------|--------|---------|------|-------|------|--------|-------|------|----|----|----|----|----|----|----|----|-------|
| HR | MI | SEC | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MIN | DEG | MIN | RATE | | | | | | | | | |
| 46 | 6 | 39 | 52.770 | 2355 | 56 | 15.18N | 73 | 11.41E | 55 | 50N | 73 | 34E | 638282 | 24586 | 154 | 16 | 27 | 21 | 14 | 51 | -0 | 2 | ND | 2.668 |
| 47 | 6 | 39 | 55.124 | 2355 | 56 | 6.61N | 73 | 18.79E | 55 | 42N | 73 | 41E | 637844 | 24587 | 154 | 23 | 27 | 30 | 14 | 52 | -0 | 4 | ND | 2.668 |
| 48 | 6 | 39 | 57.470 | 2345 | 55 | 58.06N | 73 | 26.09E | 55 | 33N | 73 | 49E | 637409 | 24588 | 154 | 30 | 27 | 39 | 14 | 53 | -0 | 5 | ND | 2.679 |
| 49 | 6 | 39 | 59.810 | 2340 | 55 | 49.53N | 73 | 33.32E | 55 | 25N | 73 | 56E | 636977 | 24589 | 154 | 37 | 27 | 48 | 14 | 53 | -0 | 7 | ND | 2.685 |
| 50 | 6 | 40 | 2.145 | 2335 | 55 | 41.00N | 73 | 40.47E | 55 | 16N | 74 | 2E | 636544 | 24590 | 154 | 44 | 27 | 58 | 14 | 53 | -0 | 9 | ND | 2.691 |
| 51 | 6 | 40 | 4.479 | 2335 | 55 | 32.47N | 73 | 47.57E | 55 | 7N | 74 | 9E | 636120 | 24591 | 154 | 51 | 28 | 7 | 14 | 53 | -0 | 11 | ND | 2.691 |
| 52 | 6 | 40 | 6.811 | 2331 | 55 | 23.94N | 73 | 54.60E | 54 | 59N | 74 | 16E | 635696 | 24592 | 154 | 58 | 28 | 16 | 14 | 54 | -0 | 11 | ND | 2.695 |
| 53 | 6 | 40 | 9.135 | 2334 | 55 | 15.43N | 74 | 1.55E | 54 | 50N | 74 | 23E | 635274 | 24593 | 155 | 4 | 28 | 25 | 14 | 54 | -0 | 12 | ND | 2.704 |
| 54 | 6 | 40 | 11.454 | 2320 | 55 | 6.93N | 74 | 8.44E | 54 | 42N | 74 | 30E | 634855 | 24594 | 155 | 11 | 28 | 34 | 14 | 54 | -0 | 12 | ND | 2.708 |
| 55 | 6 | 40 | 13.779 | 2325 | 54 | 58.40N | 74 | 15.29E | 54 | 33N | 74 | 36E | 634436 | 24595 | 155 | 18 | 28 | 43 | 14 | 54 | -0 | 13 | ND | 2.702 |
| 56 | 6 | 40 | 16.095 | 2315 | 54 | 49.89N | 74 | 22.06E | 54 | 25N | 74 | 43E | 634021 | 24596 | 155 | 24 | 28 | 52 | 14 | 54 | -0 | 14 | ND | 2.714 |
| 57 | 6 | 40 | 18.404 | 2310 | 54 | 41.40N | 74 | 28.77E | 54 | 16N | 74 | 49E | 633609 | 24597 | 155 | 30 | 29 | 1 | 14 | 54 | -0 | 14 | ND | 2.720 |
| 58 | 6 | 40 | 20.715 | 2310 | 54 | 32.90N | 74 | 35.42E | 54 | 8N | 74 | 56E | 633199 | 24598 | 155 | 37 | 29 | 11 | 14 | 54 | -0 | 14 | ND | 2.720 |
| 59 | 6 | 40 | 23.029 | 2315 | 54 | 24.38N | 74 | 42.04E | 53 | 59N | 75 | 2E | 632789 | 24599 | 155 | 43 | 29 | 20 | 14 | 54 | -0 | 14 | ND | 2.714 |
| 60 | 6 | 40 | 25.334 | 2305 | 54 | 15.89N | 74 | 48.58E | 53 | 51N | 75 | 9E | 632383 | 24600 | 155 | 49 | 29 | 29 | 14 | 54 | -0 | 14 | ND | 2.726 |
| 61 | 6 | 40 | 27.640 | 2305 | 54 | 7.38N | 74 | 55.08E | 53 | 42N | 75 | 15E | 631979 | 24601 | 155 | 56 | 29 | 38 | 14 | 53 | -0 | 14 | ND | 2.726 |
| 62 | 6 | 40 | 29.935 | 2295 | 53 | 58.91N | 75 | 1.50E | 53 | 34N | 75 | 21E | 631579 | 24601 | 156 | 2 | 29 | 47 | 14 | 53 | -0 | 13 | ND | 2.738 |
| 63 | 6 | 40 | 32.239 | 2305 | 53 | 50.39N | 75 | 7.89E | 53 | 25N | 75 | 28E | 631178 | 24602 | 156 | 8 | 29 | 56 | 14 | 53 | -0 | 13 | ND | 2.726 |
| 64 | 6 | 40 | 34.544 | 2305 | 53 | 41.87N | 75 | 14.24E | 53 | 17N | 75 | 34E | 630780 | 24603 | 156 | 14 | 30 | 5 | 14 | 53 | -0 | 12 | ND | 2.726 |
| 65 | 6 | 40 | 36.841 | 2294 | 53 | 33.37N | 75 | 20.53E | 53 | 8N | 75 | 40E | 630384 | 24604 | 156 | 20 | 30 | 14 | 14 | 52 | -0 | 12 | ND | 2.737 |
| 66 | 6 | 40 | 39.135 | 2294 | 53 | 24.87N | 75 | 26.76E | 53 | 0N | 75 | 46E | 629991 | 24605 | 156 | 26 | 30 | 23 | 14 | 52 | -0 | 11 | ND | 2.739 |
| 67 | 6 | 40 | 41.430 | 2295 | 53 | 16.36N | 75 | 32.95E | 52 | 51N | 75 | 52E | 629600 | 24606 | 156 | 32 | 30 | 32 | 14 | 51 | -0 | 10 | ND | 2.738 |
| 68 | 6 | 40 | 43.720 | 2290 | 53 | 7.87N | 75 | 39.08E | 52 | 43N | 75 | 58E | 629211 | 24607 | 156 | 37 | 30 | 41 | 14 | 51 | -0 | 9 | ND | 2.744 |
| 69 | 6 | 40 | 46.015 | 2295 | 52 | 59.35N | 75 | 45.18E | 52 | 34N | 76 | 4E | 628823 | 24608 | 156 | 43 | 30 | 50 | 14 | 51 | -0 | 9 | ND | 2.738 |
| 70 | 6 | 40 | 48.305 | 2290 | 52 | 50.83N | 75 | 51.22E | 52 | 26N | 76 | 10E | 628438 | 24609 | 156 | 49 | 30 | 59 | 14 | 50 | -0 | 8 | ND | 2.744 |
| 71 | 6 | 40 | 50.595 | 2290 | 52 | 42.32N | 75 | 57.22E | 52 | 17N | 76 | 16E | 628054 | 24610 | 156 | 55 | 31 | 8 | 14 | 49 | -0 | 8 | ND | 2.744 |
| 72 | 6 | 40 | 52.880 | 2285 | 52 | 33.81N | 76 | 3.16E | 52 | 9N | 76 | 22E | 627696 | 24611 | 157 | 0 | 31 | 17 | 14 | 48 | -0 | 7 | ND | 2.750 |
| 73 | 6 | 40 | 55.159 | 2280 | 52 | 25.32N | 76 | 9.05E | 51 | 52N | 76 | 28E | 627294 | 24612 | 157 | 11 | 31 | 34 | 14 | 48 | -0 | 7 | ND | 2.756 |
| 74 | 6 | 40 | 57.435 | 2275 | 52 | 16.84N | 76 | 14.89E | 51 | 52N | 76 | 33E | 626920 | 24612 | 157 | 11 | 31 | 34 | 14 | 48 | -0 | 7 | ND | 2.762 |
| 75 | 6 | 40 | 59.715 | 2280 | 52 | 8.34N | 76 | 20.70E | 51 | 43N | 76 | 39E | 626546 | 24613 | 157 | 17 | 31 | 43 | 14 | 48 | -0 | 6 | ND | 2.756 |
| 76 | 6 | 41 | 1.995 | 2281 | 51 | 59.82N | 76 | 26.47E | 51 | 35N | 76 | 45E | 626173 | 24614 | 157 | 22 | 31 | 52 | 14 | 47 | -0 | 6 | ND | 2.755 |
| 77 | 6 | 41 | 4.274 | 2279 | 51 | 51.31N | 76 | 32.20E | 51 | 26N | 76 | 50E | 625803 | 24615 | 157 | 28 | 32 | 1 | 14 | 47 | -0 | 6 | ND | 2.757 |
| 78 | 6 | 41 | 6.546 | 2271 | 51 | 42.82N | 76 | 37.87E | 51 | 18N | 76 | 56E | 625436 | 24616 | 157 | 33 | 32 | 10 | 14 | 47 | -0 | 6 | ND | 2.767 |
| 79 | 6 | 41 | 8.819 | 2274 | 51 | 34.31N | 76 | 43.50E | 51 | 9N | 77 | 1E | 625070 | 24617 | 157 | 38 | 32 | 19 | 14 | 46 | -0 | 6 | ND | 2.763 |
| 80 | 6 | 41 | 11.091 | 2271 | 51 | 25.81N | 76 | 49.09E | 51 | 1N | 77 | 7E | 624706 | 24618 | 157 | 44 | 32 | 28 | 14 | 46 | -0 | 6 | ND | 2.767 |
| 81 | 6 | 41 | 13.359 | 2269 | 51 | 17.31N | 76 | 54.64E | 50 | 52N | 77 | 12E | 624344 | 24619 | 157 | 49 | 32 | 37 | 14 | 46 | -0 | 6 | ND | 2.769 |
| 82 | 6 | 41 | 15.624 | 2265 | 51 | 8.82N | 77 | 0.14E | 50 | 44N | 77 | 17E | 623986 | 24619 | 157 | 54 | 32 | 46 | 14 | 46 | -0 | 6 | ND | 2.774 |
| 83 | 6 | 41 | 17.890 | 2265 | 51 | 0.33N | 77 | 5.61E | 50 | 36N | 77 | 23E | 623629 | 24620 | 157 | 59 | 32 | 55 | 14 | 46 | -0 | 6 | ND | 2.774 |
| 84 | 6 | 41 | 20.150 | 2261 | 50 | 51.84N | 77 | 11.02E | 50 | 27N | 77 | 28E | 623274 | 24621 | 158 | 4 | 33 | 3 | 14 | 46 | -0 | 6 | ND | 2.779 |
| 85 | 6 | 41 | 22.414 | 2264 | 50 | 43.34N | 77 | 16.41E | 50 | 19N | 77 | 33E | 622921 | 24622 | 158 | 9 | 33 | 12 | 14 | 46 | -0 | 6 | ND | 2.774 |
| 86 | 6 | 41 | 24.676 | 2261 | 50 | 34.84N | 77 | 21.76E | 50 | 10N | 77 | 39E | 622570 | 24623 | 158 | 14 | 33 | 21 | 14 | 46 | -0 | 6 | ND | 2.775 |
| 87 | 6 | 41 | 26.939 | 2264 | 50 | 26.32N | 77 | 27.08E | 50 | 2N | 77 | 44E | 622221 | 24624 | 158 | 19 | 33 | 30 | 14 | 46 | -0 | 6 | ND | 2.775 |
| 88 | 6 | 41 | 29.194 | 2255 | 50 | 17.84N | 77 | 32.34E | 49 | 53N | 77 | 49E | 621875 | 24624 | 158 | 24 | 33 | 39 | 14 | 46 | -0 | 7 | ND | 2.786 |
| 89 | 6 | 41 | 31.449 | 2255 | 50 | 9.35N | 77 | 37.57E | 49 | 45N | 77 | 54E | 621530 | 24625 | 158 | 29 | 33 | 48 | 14 | 46 | -0 | 7 | ND | 2.786 |
| 90 | 6 | 41 | 33.704 | 2255 | 50 | 0.85N | 77 | 42.76E | 49 | 36N | 77 | 59E | 621180 | 24626 | 158 | 34 | 33 | 56 | 14 | 45 | -0 | 7 | ND | 2.786 |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1820 FWD 4MAR65

FRAME EPHemeris 1817-2

MISSION 1817-2

ID 43 LIST DATE 18MAY65 PAGE 32

| FRM | Z TIME | HR MI SEC | DTIM | CAMERA | | | NADIR | | | FORMAT CENTER | | | ALTITUDE VELOC | | | AZIMUTH SUNV | | | PITCH | ROLL | YAW | SCAN | | |
|-----|--------|-----------|--------|--------|-----|--------|-------|--------|------|---------------|-----|------|----------------|-------|-----|--------------|------|-----|-------|------|-----|------|-----|-------|
| | | | | DEG | MIN | LAT | DEG | MIN | LONG | DEG | MIN | LONG | DEG | MIN | DEG | MIN | FEET | F/S | | | | | DEG | MI |
| 91 | 6 | 41 | 35.965 | 2260 | 49 | 52.33N | 77 | 47.94E | 49 | 28N | 78 | 4E | 628847 | 24627 | 158 | 39 | 34 | 5 | 14 | 45 | -0 | 8 | ND | 2.788 |
| 92 | 6 | 41 | 38.215 | 2250 | 49 | 43.84N | 77 | 53.05E | 49 | 19N | 78 | 9E | 628509 | 24628 | 158 | 44 | 34 | 14 | 14 | 46 | -0 | 8 | ND | 2.793 |
| 93 | 6 | 41 | 40.470 | 2255 | 49 | 35.33N | 77 | 58.15E | 49 | 11N | 78 | 14E | 628172 | 24629 | 158 | 48 | 34 | 23 | 14 | 46 | -0 | 8 | ND | 2.786 |
| 94 | 6 | 41 | 42.720 | 2250 | 49 | 26.83N | 78 | 5.20E | 49 | 2N | 78 | 19E | 619839 | 24628 | 158 | 58 | 34 | 32 | 14 | 46 | -0 | 8 | ND | 2.793 |
| 95 | 6 | 41 | 44.971 | 2251 | 49 | 18.33N | 78 | 8.22E | 48 | 53N | 78 | 24E | 619507 | 24630 | 158 | 58 | 34 | 41 | 14 | 46 | -0 | 8 | ND | 2.791 |
| 96 | 6 | 41 | 47.220 | 2249 | 49 | 9.82N | 78 | 13.20E | 48 | 45N | 78 | 29E | 619176 | 24631 | 159 | 2 | 34 | 49 | 14 | 47 | -0 | 8 | ND | 2.794 |
| 97 | 6 | 41 | 49.465 | 2245 | 49 | 1.33N | 78 | 18.15E | 48 | 36N | 78 | 34E | 618848 | 24632 | 159 | 7 | 34 | 58 | 14 | 47 | -0 | 8 | ND | 2.799 |
| 98 | 6 | 41 | 51.704 | 2240 | 48 | 52.85N | 78 | 23.05E | 48 | 28N | 78 | 39E | 618524 | 24632 | 159 | 11 | 35 | 7 | 14 | 47 | -0 | 8 | ND | 2.805 |
| 99 | 6 | 41 | 53.954 | 2250 | 48 | 44.33N | 78 | 27.94E | 48 | 19N | 78 | 43E | 618200 | 24633 | 159 | 16 | 35 | 16 | 14 | 47 | -0 | 8 | ND | 2.793 |
| 100 | 6 | 41 | 56.194 | 2240 | 48 | 35.84N | 78 | 32.79E | 48 | 11N | 78 | 48E | 617879 | 24634 | 159 | 20 | 35 | 25 | 14 | 47 | -0 | 8 | ND | 2.805 |
| 101 | 6 | 41 | 58.435 | 2240 | 48 | 27.35N | 78 | 37.60E | 47 | 3N | 78 | 53E | 617550 | 24635 | 159 | 29 | 35 | 33 | 14 | 46 | -0 | 8 | ND | 2.805 |
| 102 | 6 | 42 | 0.675 | 2240 | 48 | 18.85N | 78 | 42.38E | 47 | 54N | 78 | 58E | 617242 | 24635 | 159 | 29 | 35 | 42 | 14 | 46 | -0 | 8 | ND | 2.805 |
| 103 | 6 | 42 | 2.919 | 2245 | 48 | 10.33N | 78 | 47.14E | 47 | 46N | 79 | 2E | 616927 | 24636 | 159 | 34 | 35 | 51 | 14 | 46 | -0 | 8 | ND | 2.799 |
| 104 | 6 | 42 | 5.159 | 2240 | 48 | 1.82N | 78 | 51.87E | 47 | 37N | 79 | 7E | 616613 | 24637 | 159 | 38 | 36 | 0 | 14 | 46 | -0 | 7 | ND | 2.805 |
| 105 | 6 | 42 | 7.390 | 2230 | 47 | 53.34N | 78 | 56.54E | 47 | 29N | 79 | 11E | 616304 | 24638 | 159 | 42 | 36 | 8 | 14 | 46 | -0 | 7 | ND | 2.818 |
| 106 | 6 | 42 | 9.619 | 2230 | 47 | 44.87N | 79 | 1.19E | 47 | 28N | 79 | 16E | 615995 | 24638 | 159 | 47 | 36 | 17 | 14 | 46 | -0 | 7 | ND | 2.818 |
| 107 | 6 | 42 | 11.854 | 2235 | 47 | 36.37N | 79 | 5.82E | 47 | 12N | 79 | 21E | 615689 | 24639 | 159 | 51 | 36 | 26 | 14 | 46 | -0 | 7 | ND | 2.811 |
| 108 | 6 | 42 | 14.090 | 2230 | 47 | 27.86N | 79 | 10.42E | 46 | 55N | 79 | 25E | 615384 | 24640 | 159 | 55 | 36 | 35 | 14 | 46 | -0 | 7 | ND | 2.811 |
| 109 | 6 | 42 | 16.319 | 2230 | 47 | 19.37N | 79 | 14.98E | 46 | 46N | 79 | 30E | 615082 | 24641 | 159 | 59 | 36 | 43 | 14 | 46 | -0 | 7 | ND | 2.818 |
| 110 | 6 | 42 | 18.550 | 2230 | 47 | 10.87N | 79 | 19.52E | 46 | 38N | 79 | 34E | 614781 | 24641 | 160 | 7 | 37 | 1 | 14 | 45 | -0 | 7 | ND | 2.818 |
| 111 | 6 | 42 | 20.775 | 2226 | 47 | 2.39N | 79 | 24.02E | 46 | 29N | 79 | 38E | 614484 | 24642 | 160 | 7 | 37 | 1 | 14 | 45 | -0 | 7 | ND | 2.823 |
| 112 | 6 | 42 | 23.006 | 2230 | 46 | 53.89N | 79 | 28.50E | 46 | 21N | 79 | 43E | 614188 | 24643 | 160 | 12 | 37 | 9 | 14 | 45 | -0 | 7 | ND | 2.818 |
| 113 | 6 | 42 | 25.230 | 2225 | 46 | 45.48N | 79 | 32.94E | 46 | 12N | 79 | 47E | 613894 | 24643 | 160 | 16 | 37 | 18 | 14 | 45 | -0 | 7 | ND | 2.824 |
| 114 | 6 | 42 | 27.459 | 2229 | 46 | 36.89N | 79 | 37.37E | 46 | 4 | 79 | 52E | 613602 | 24644 | 160 | 20 | 37 | 27 | 14 | 45 | -0 | 7 | ND | 2.819 |
| 115 | 6 | 42 | 29.685 | 2221 | 46 | 28.48N | 79 | 41.77E | 46 | 4N | 79 | 56E | 613312 | 24645 | 160 | 24 | 37 | 35 | 14 | 44 | -0 | 7 | ND | 2.824 |
| 116 | 6 | 42 | 31.905 | 2221 | 46 | 19.91N | 79 | 46.13E | 45 | 55N | 80 | 0E | 613025 | 24645 | 160 | 28 | 37 | 44 | 14 | 44 | -0 | 7 | ND | 2.829 |
| 117 | 6 | 42 | 34.124 | 2219 | 46 | 11.43N | 79 | 50.46E | 45 | 47N | 80 | 4E | 612740 | 24646 | 160 | 32 | 37 | 53 | 14 | 44 | -0 | 7 | ND | 2.832 |
| 118 | 6 | 42 | 36.346 | 2221 | 46 | 2.94N | 79 | 54.77E | 45 | 38N | 80 | 9E | 612457 | 24647 | 160 | 35 | 38 | 1 | 14 | 44 | -0 | 7 | ND | 2.829 |
| 119 | 6 | 45 | 21.649 | 65304 | 35 | 22.11N | 84 | 19.72E | 34 | 58N | 84 | 29E | 597295 | 24683 | 164 | 23 | 48 | 41 | 14 | 37 | -0 | 26 | ND | 0.838 |
| 120 | 6 | 45 | 24.704 | 3055 | 35 | 18.14N | 84 | 23.79E | 34 | 46N | 84 | 33E | 597130 | 24684 | 164 | 26 | 48 | 53 | 14 | 36 | -0 | 27 | ND | 2.057 |
| 121 | 6 | 45 | 27.205 | 2501 | 35 | 8.34N | 84 | 27.11E | 34 | 36N | 84 | 36E | 596999 | 24684 | 164 | 29 | 49 | 2 | 14 | 35 | -0 | 27 | ND | 2.512 |
| 122 | 6 | 45 | 29.550 | 2344 | 34 | 51.14N | 84 | 30.21E | 34 | 27N | 84 | 39E | 596879 | 24684 | 164 | 31 | 49 | 11 | 14 | 35 | -0 | 27 | ND | 2.681 |
| 123 | 6 | 45 | 31.829 | 2280 | 34 | 42.28N | 84 | 33.20E | 34 | 18N | 84 | 42E | 596765 | 24685 | 164 | 34 | 49 | 20 | 14 | 34 | -0 | 27 | ND | 2.756 |
| 124 | 6 | 45 | 34.074 | 2245 | 34 | 33.48N | 84 | 36.14E | 34 | 9N | 84 | 45E | 596654 | 24685 | 164 | 36 | 49 | 28 | 14 | 33 | -0 | 27 | ND | 2.799 |
| 125 | 6 | 45 | 36.306 | 2231 | 34 | 24.64N | 84 | 39.05E | 34 | 0N | 84 | 48E | 596547 | 24685 | 164 | 38 | 49 | 37 | 14 | 33 | -0 | 26 | ND | 2.816 |
| 126 | 6 | 45 | 38.529 | 2224 | 34 | 15.91N | 84 | 41.94E | 33 | 51N | 84 | 51E | 596443 | 24685 | 164 | 41 | 49 | 45 | 14 | 32 | -0 | 26 | ND | 2.825 |
| 127 | 6 | 45 | 40.744 | 2215 | 34 | 7.22N | 84 | 44.80E | 33 | 43N | 84 | 53E | 596341 | 24686 | 164 | 43 | 49 | 54 | 14 | 32 | -0 | 25 | ND | 2.837 |
| 128 | 6 | 45 | 42.959 | 2215 | 33 | 58.52N | 84 | 47.65E | 33 | 34N | 84 | 56E | 596242 | 24686 | 164 | 45 | 50 | 2 | 14 | 31 | -0 | 24 | ND | 2.837 |
| 129 | 6 | 45 | 45.175 | 2215 | 33 | 49.82N | 84 | 50.49E | 33 | 25N | 84 | 59E | 596145 | 24686 | 164 | 47 | 50 | 11 | 14 | 30 | -0 | 23 | ND | 2.837 |
| 130 | 6 | 45 | 47.385 | 2210 | 33 | 41.14N | 84 | 53.32E | 33 | 17N | 85 | 2E | 596050 | 24686 | 164 | 49 | 50 | 19 | 14 | 30 | -0 | 22 | ND | 2.843 |
| 131 | 6 | 45 | 49.596 | 2211 | 33 | 32.46N | 84 | 56.13E | 33 | 8N | 85 | 5E | 595959 | 24687 | 164 | 52 | 50 | 27 | 14 | 29 | -0 | 21 | ND | 2.844 |
| 132 | 6 | 45 | 51.805 | 2209 | 33 | 23.78N | 84 | 58.93E | 32 | 59N | 85 | 8E | 595869 | 24687 | 164 | 54 | 50 | 36 | 14 | 29 | -0 | 19 | ND | 2.844 |
| 133 | 6 | 45 | 54.010 | 2205 | 33 | 15.11N | 85 | 1.71E | 32 | 51N | 85 | 10E | 595782 | 24687 | 164 | 56 | 50 | 44 | 14 | 29 | -0 | 18 | ND | 2.850 |
| 134 | 6 | 45 | 56.215 | 2205 | 33 | 6.44N | 85 | 4.48E | 32 | 42N | 85 | 13E | 595697 | 24687 | 164 | 58 | 50 | 53 | 14 | 29 | -0 | 17 | ND | 2.850 |
| 135 | 6 | 45 | 58.419 | 2205 | 32 | 57.78N | 85 | 7.24E | 32 | 34N | 85 | 16E | 595614 | 24687 | 165 | 0 | 51 | 1 | 14 | 28 | -0 | 15 | ND | 2.850 |

TOP SECRET

HANDLE VIA
TALCUST - JERUSALEM

HANDLE VIA
TALENT KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

MISSION 1017-2
ID 43
LIST DATE 10MAY65
PAGE 33

| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN |
|-----|----|----|--------|------|-----|--------|-----|--------|-----|-----|-----|------|----------|-------|-----|----|-----|----|-------|------|-----|-------|
| 136 | 6 | 46 | 8.625 | 2206 | 32 | 49.10N | 85 | 9.99E | 32 | 25N | 85 | 19E | 595534 | 24688 | 165 | 2 | 51 | 9 | 14 | 28 | ND | 2.848 |
| 137 | 6 | 46 | 2.829 | 2204 | 32 | 40.43N | 85 | 12.73E | 32 | 16N | 85 | 21E | 595456 | 24688 | 165 | 4 | 51 | 18 | 14 | 28 | ND | 2.851 |
| 138 | 6 | 46 | 5.834 | 2205 | 32 | 31.76N | 85 | 15.44E | 32 | 8N | 85 | 24E | 595381 | 24688 | 165 | 6 | 51 | 26 | 14 | 28 | ND | 2.850 |
| 139 | 6 | 46 | 7.239 | 2205 | 32 | 23.08N | 85 | 18.18E | 31 | 59N | 85 | 27E | 595308 | 24688 | 165 | 8 | 51 | 34 | 14 | 28 | ND | 2.850 |
| 140 | 6 | 46 | 9.449 | 2210 | 32 | 14.38N | 85 | 20.99E | 31 | 50N | 85 | 30E | 595237 | 24688 | 165 | 10 | 51 | 43 | 14 | 28 | ND | 2.843 |
| 141 | 6 | 46 | 11.654 | 2205 | 32 | 5.70N | 85 | 23.59E | 31 | 42N | 85 | 32E | 595169 | 24688 | 165 | 12 | 51 | 51 | 14 | 28 | ND | 2.850 |
| 142 | 6 | 46 | 13.859 | 2205 | 31 | 57.02N | 85 | 26.28E | 31 | 34N | 85 | 35E | 595103 | 24689 | 165 | 14 | 51 | 59 | 14 | 27 | ND | 2.850 |
| 143 | 6 | 46 | 16.064 | 2205 | 31 | 48.34N | 85 | 28.96E | 31 | 24N | 85 | 38E | 595040 | 24689 | 165 | 16 | 52 | 8 | 14 | 27 | ND | 2.850 |
| 144 | 6 | 46 | 18.270 | 2205 | 31 | 39.65N | 85 | 31.63E | 31 | 16N | 85 | 40E | 594978 | 24689 | 165 | 18 | 52 | 16 | 14 | 27 | ND | 2.850 |
| 145 | 6 | 46 | 20.465 | 2195 | 31 | 31.00N | 85 | 34.27E | 31 | 7N | 85 | 43E | 594920 | 24689 | 165 | 20 | 52 | 24 | 14 | 27 | ND | 2.862 |
| 146 | 6 | 46 | 22.669 | 2205 | 31 | 22.32N | 85 | 36.92E | 30 | 58N | 85 | 46E | 594863 | 24689 | 165 | 22 | 52 | 33 | 14 | 27 | ND | 2.850 |
| 147 | 6 | 46 | 24.869 | 2200 | 31 | 13.65N | 85 | 39.55E | 30 | 50N | 85 | 48E | 594810 | 24689 | 165 | 24 | 52 | 41 | 14 | 27 | ND | 2.856 |
| 148 | 6 | 46 | 27.079 | 2210 | 31 | 4.94N | 85 | 42.19E | 30 | 41N | 85 | 51E | 594758 | 24690 | 165 | 26 | 52 | 49 | 14 | 27 | ND | 2.843 |
| 149 | 6 | 46 | 29.279 | 2200 | 30 | 56.27N | 85 | 44.80E | 30 | 32N | 85 | 53E | 594709 | 24690 | 165 | 28 | 52 | 57 | 14 | 27 | ND | 2.856 |
| 150 | 6 | 46 | 31.479 | 2200 | 30 | 47.59N | 85 | 47.40E | 30 | 23N | 85 | 56E | 594663 | 24690 | 165 | 30 | 53 | 6 | 14 | 28 | ND | 2.856 |
| 151 | 6 | 46 | 33.685 | 2205 | 30 | 38.90N | 85 | 50.00E | 30 | 15N | 85 | 58E | 594618 | 24690 | 165 | 32 | 53 | 14 | 14 | 28 | ND | 2.850 |
| 152 | 6 | 46 | 35.885 | 2200 | 30 | 30.22N | 85 | 52.59E | 30 | 6N | 86 | 1E | 594576 | 24690 | 165 | 34 | 53 | 22 | 14 | 28 | ND | 2.856 |
| 153 | 6 | 46 | 38.084 | 2200 | 30 | 21.55N | 85 | 55.16E | 29 | 57N | 86 | 4E | 594537 | 24690 | 165 | 36 | 53 | 31 | 14 | 28 | ND | 2.856 |
| 154 | 6 | 46 | 40.284 | 2200 | 30 | 12.87N | 85 | 57.73E | 29 | 49N | 86 | 6E | 594500 | 24690 | 165 | 37 | 53 | 39 | 14 | 29 | ND | 2.856 |
| 155 | 6 | 46 | 42.484 | 2200 | 30 | 4.18N | 86 | 0.29E | 29 | 40N | 86 | 9E | 594465 | 24690 | 165 | 39 | 53 | 47 | 14 | 29 | ND | 2.856 |
| 156 | 6 | 46 | 44.685 | 2200 | 29 | 55.50N | 86 | 2.83E | 29 | 31N | 86 | 11E | 594433 | 24690 | 165 | 41 | 53 | 56 | 14 | 30 | ND | 2.856 |
| 157 | 6 | 46 | 46.890 | 2205 | 29 | 46.80N | 86 | 5.38E | 29 | 23N | 86 | 14E | 594403 | 24690 | 165 | 43 | 54 | 4 | 14 | 31 | ND | 2.856 |
| 158 | 6 | 46 | 49.090 | 2200 | 29 | 38.11N | 86 | 7.91E | 29 | 14N | 86 | 16E | 594375 | 24691 | 165 | 45 | 54 | 12 | 14 | 31 | ND | 2.856 |
| 159 | 6 | 46 | 51.296 | 2200 | 29 | 29.40N | 86 | 10.44E | 29 | 5N | 86 | 19E | 594350 | 24691 | 165 | 47 | 54 | 20 | 14 | 32 | ND | 2.857 |
| 160 | 6 | 46 | 53.494 | 2199 | 29 | 20.72N | 86 | 12.95E | 28 | 56N | 86 | 21E | 594328 | 24691 | 165 | 48 | 54 | 29 | 14 | 32 | ND | 2.857 |
| 161 | 6 | 46 | 55.694 | 2200 | 29 | 12.03N | 86 | 15.45E | 28 | 48N | 86 | 24E | 594307 | 24691 | 165 | 50 | 54 | 37 | 14 | 33 | ND | 2.856 |
| 162 | 6 | 46 | 57.895 | 2200 | 29 | 3.34N | 86 | 17.95E | 28 | 39N | 86 | 26E | 594290 | 24691 | 165 | 52 | 54 | 45 | 14 | 33 | ND | 2.856 |
| 163 | 6 | 47 | 0.100 | 2205 | 28 | 54.63N | 86 | 20.44E | 28 | 30N | 86 | 29E | 594275 | 24691 | 165 | 54 | 54 | 53 | 14 | 34 | ND | 2.852 |
| 164 | 6 | 47 | 2.294 | 2195 | 28 | 45.96N | 86 | 22.91E | 28 | 22N | 86 | 31E | 594262 | 24691 | 165 | 55 | 55 | 1 | 14 | 35 | ND | 2.862 |
| 165 | 6 | 47 | 4.494 | 2200 | 28 | 37.26N | 86 | 25.38E | 28 | 13N | 86 | 34E | 594252 | 24691 | 165 | 57 | 55 | 10 | 14 | 36 | ND | 2.856 |
| 166 | 6 | 47 | 6.690 | 2196 | 28 | 28.58N | 86 | 27.84E | 28 | 4N | 86 | 36E | 594243 | 24691 | 165 | 59 | 55 | 18 | 14 | 37 | ND | 2.861 |
| 167 | 6 | 47 | 8.895 | 2200 | 28 | 19.87N | 86 | 30.30E | 27 | 55N | 86 | 39E | 594238 | 24691 | 166 | 0 | 55 | 26 | 14 | 38 | ND | 2.851 |
| 168 | 6 | 47 | 11.095 | 2200 | 28 | 11.17N | 86 | 32.74E | 27 | 47N | 86 | 41E | 594235 | 24691 | 166 | 2 | 55 | 34 | 14 | 39 | ND | 2.856 |
| 169 | 6 | 47 | 13.290 | 2196 | 28 | 2.49N | 86 | 35.18E | 27 | 38N | 86 | 43E | 594234 | 24691 | 166 | 4 | 55 | 43 | 14 | 40 | ND | 2.861 |
| 170 | 6 | 47 | 15.586 | 2215 | 27 | 53.72N | 86 | 37.62E | 27 | 29N | 86 | 46E | 594236 | 24691 | 166 | 5 | 55 | 51 | 14 | 41 | ND | 2.857 |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 103D FWD 4MAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65 PAGE 34

| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|------------|------|-----------|-----------|--------|--------|----------|-------|---------|-------|-------|------|-------|-------|
| HR MI | SEC | MILS | LAT | LONG | MIN | DEG | FEET | F/S | DEG | MI | DEG | MIN | DEG | RATE |
| 1 | 8 5 10.569 | 0 | 71 2.18N | 24 35.79E | 70 | 43N | 25 | 51E | 698943 | 24444 | 128 | 42 | 9 18 | 1.791 |
| 2 | 8 5 14.078 | 3509 | 70 53.34N | 25 9.28E | 70 | 33N | 26 | 23E | 698052 | 24446 | 129 | 15 | 9 32 | 1.791 |
| 3 | 8 5 17.014 | 0935 | 70 45.86N | 25 36.90E | 70 | 26N | 26 | 50E | 697307 | 24448 | 129 | 43 | 9 43 | 2.141 |
| 4 | 8 5 19.788 | 2705 | 70 38.72N | 26 2.68E | 70 | 19N | 27 | 15E | 696602 | 24451 | 130 | 8 | 9 54 | 2.264 |
| 5 | 8 5 22.493 | 2705 | 70 31.70N | 26 27.52E | 70 | 11N | 27 | 39E | 695922 | 24451 | 130 | 33 | 10 5 | 2.323 |
| 6 | 8 5 25.163 | 2670 | 70 24.71N | 27 15.57E | 70 | 4N | 28 | 2E | 695249 | 24453 | 130 | 57 | 10 15 | 2.353 |
| 7 | 8 5 27.818 | 2655 | 70 17.71N | 27 15.57E | 69 | 57N | 28 | 25E | 694581 | 24454 | 131 | 21 | 10 26 | 2.367 |
| 8 | 8 5 30.458 | 2640 | 70 10.69N | 27 38.97E | 69 | 50N | 28 | 48E | 693918 | 24456 | 131 | 44 | 10 36 | 2.380 |
| 8 | 8 5 33.089 | 2630 | 70 3.64N | 28 2.03E | 69 | 43N | 29 | 10E | 693259 | 24457 | 132 | 7 | 10 46 | 2.389 |
| 8 | 8 5 35.714 | 2625 | 69 56.56N | 28 24.77E | 69 | 36N | 29 | 32E | 692603 | 24459 | 132 | 30 | 10 57 | 2.394 |
| 8 | 8 5 38.324 | 2611 | 69 49.46N | 28 47.13E | 69 | 29N | 29 | 53E | 691952 | 24460 | 132 | 52 | 11 7 | 2.406 |
| 8 | 8 5 40.938 | 2614 | 69 42.31N | 29 9.26E | 69 | 21N | 30 | 14E | 691300 | 24462 | 133 | 14 | 11 17 | 2.407 |
| 8 | 8 5 43.549 | 2610 | 69 35.11N | 29 31.10E | 69 | 14N | 30 | 35E | 690652 | 24463 | 133 | 36 | 11 27 | 2.407 |
| 8 | 8 5 46.149 | 2601 | 69 27.90N | 29 52.61E | 69 | 7N | 30 | 56E | 690006 | 24465 | 133 | 57 | 11 37 | 2.416 |
| 8 | 8 5 48.748 | 2599 | 69 20.64N | 30 13.86E | 69 | 0N | 31 | 16E | 689364 | 24466 | 134 | 18 | 11 48 | 2.416 |
| 8 | 8 5 51.344 | 2595 | 69 13.35N | 30 34.84E | 68 | 52N | 31 | 37E | 688723 | 24468 | 134 | 39 | 11 58 | 2.421 |
| 8 | 8 5 53.930 | 2586 | 69 6.04N | 30 55.51E | 68 | 45N | 31 | 56E | 688086 | 24469 | 134 | 59 | 12 8 | 2.430 |
| 8 | 8 5 56.519 | 2589 | 68 58.67N | 31 15.96E | 68 | 38N | 32 | 16E | 687449 | 24471 | 135 | 20 | 12 18 | 2.427 |
| 8 | 8 5 59.099 | 2580 | 68 51.29N | 31 36.12E | 68 | 30N | 32 | 35E | 686816 | 24472 | 135 | 40 | 12 28 | 2.435 |
| 8 | 8 6 1.674 | 2575 | 68 43.80N | 31 56.00E | 68 | 23N | 32 | 54E | 686185 | 24474 | 136 | 19 | 12 38 | 2.440 |
| 8 | 8 6 4.248 | 2575 | 68 36.43N | 32 15.65E | 68 | 15N | 33 | 13E | 685557 | 24475 | 136 | 19 | 12 48 | 2.440 |
| 8 | 8 6 6.813 | 2565 | 68 28.96N | 32 35.02E | 68 | 8N | 33 | 32E | 684932 | 24477 | 136 | 38 | 12 58 | 2.450 |
| 8 | 8 6 9.384 | 2570 | 68 21.44N | 32 54.20E | 68 | 0N | 33 | 50E | 684306 | 24478 | 136 | 57 | 13 8 | 2.445 |
| 8 | 8 6 11.943 | 2560 | 68 13.92N | 33 13.09E | 67 | 53N | 34 | 8E | 683685 | 24479 | 137 | 16 | 13 18 | 2.454 |
| 8 | 8 6 14.503 | 2560 | 68 6.35N | 33 31.76E | 67 | 45N | 34 | 26E | 683065 | 24481 | 137 | 35 | 13 28 | 2.454 |
| 8 | 8 6 17.059 | 2555 | 67 58.76N | 33 50.20E | 67 | 38N | 34 | 44E | 682448 | 24482 | 137 | 53 | 13 38 | 2.459 |
| 8 | 8 6 19.608 | 2550 | 67 51.15N | 34 8.39E | 67 | 30N | 35 | 2E | 681833 | 24484 | 138 | 11 | 13 48 | 2.464 |
| 8 | 8 6 22.153 | 2544 | 67 43.52N | 34 26.34E | 67 | 23N | 35 | 19E | 681222 | 24485 | 138 | 29 | 13 58 | 2.469 |
| 8 | 8 6 24.694 | 2541 | 67 35.86N | 34 44.06E | 67 | 15N | 35 | 36E | 680612 | 24487 | 138 | 46 | 14 7 | 2.473 |
| 8 | 8 6 27.233 | 2539 | 67 28.18N | 35 1.58E | 67 | 7N | 35 | 53E | 680004 | 24488 | 139 | 4 | 14 17 | 2.475 |
| 8 | 8 6 29.773 | 2540 | 67 20.46N | 35 18.91E | 67 | 0N | 36 | 9E | 679397 | 24489 | 139 | 21 | 14 27 | 2.474 |
| 8 | 8 6 32.299 | 2525 | 67 12.75N | 35 35.94E | 66 | 52N | 36 | 26E | 678795 | 24491 | 139 | 38 | 14 37 | 2.488 |
| 8 | 8 6 34.829 | 2531 | 67 4.99N | 35 52.83E | 66 | 44N | 36 | 42E | 678194 | 24492 | 139 | 54 | 14 47 | 2.482 |
| 8 | 8 6 37.358 | 2529 | 66 57.20N | 36 9.52E | 66 | 36N | 36 | 58E | 677594 | 24494 | 140 | 11 | 14 57 | 2.484 |
| 8 | 8 6 39.878 | 2520 | 66 49.41N | 36 25.97E | 66 | 28N | 37 | 14E | 676998 | 24495 | 140 | 27 | 15 7 | 2.493 |
| 8 | 8 6 42.394 | 2515 | 66 41.60N | 36 42.21E | 66 | 21N | 37 | 30E | 676405 | 24496 | 140 | 43 | 15 17 | 2.498 |
| 8 | 8 6 44.908 | 2515 | 66 33.77N | 36 58.27E | 66 | 13N | 37 | 46E | 675813 | 24498 | 140 | 59 | 15 27 | 2.498 |
| 8 | 8 6 47.418 | 2510 | 66 25.92N | 37 14.12E | 66 | 5N | 38 | 1E | 675223 | 24499 | 141 | 15 | 15 36 | 2.503 |
| 8 | 8 6 49.924 | 2505 | 66 18.05N | 37 29.78E | 65 | 57N | 38 | 16E | 674637 | 24500 | 141 | 30 | 15 46 | 2.508 |
| 8 | 8 6 52.429 | 2505 | 66 10.16N | 37 45.27E | 65 | 49N | 38 | 31E | 674051 | 24502 | 141 | 46 | 15 56 | 2.508 |
| 8 | 8 6 54.934 | 2505 | 66 2.24N | 38 0.59E | 65 | 41N | 38 | 46E | 673467 | 24503 | 142 | 1 | 16 6 | 2.508 |
| 8 | 8 6 57.434 | 2500 | 65 54.31N | 38 15.71E | 65 | 33N | 39 | 0E | 672886 | 24505 | 142 | 16 | 16 16 | 2.513 |
| 8 | 8 6 59.929 | 2495 | 65 46.37N | 38 30.65E | 65 | 25N | 39 | 15E | 672308 | 24507 | 142 | 31 | 16 26 | 2.518 |
| 8 | 8 7 2.410 | 2490 | 65 38.41N | 38 45.39E | 65 | 17N | 39 | 29E | 671732 | 24508 | 142 | 45 | 16 35 | 2.523 |
| 8 | 8 7 4.913 | 2495 | 65 30.42N | 39 0.01E | 65 | 9N | 39 | 43E | 671156 | 24509 | 143 | 0 | 16 45 | 2.518 |

TOP SECRET

HANDLE VIA

PASS 103D FWD 4MAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65 PAGE 35

| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | DEG MI | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|------------|------|-----------|-----------|--------|---------|----------|-------|--------|--------|-------|------|---------|-------|
| HR MI | SEC | MILS | LAT | DEG MIN | MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | MIN | MIN | DEG MIN | RATE |
| 46 | 8 7 7.398 | 2485 | 65 22.43N | 39 14.43E | 65 1N | 39 57E | 670584 | 24510 | 143 14 | 16 55 | 14 13 | 0 27 | ND | 2.528 |
| 47 | 8 7 9.878 | 2488 | 65 14.43N | 39 28.65E | 64 53N | 40 11E | 670015 | 24511 | 143 28 | 17 5 | 14 13 | 0 26 | ND | 2.534 |
| 48 | 8 7 12.354 | 2475 | 65 6.42N | 39 42.71E | 64 45N | 40 25E | 669448 | 24513 | 143 42 | 17 15 | 14 13 | 0 25 | ND | 2.539 |
| 49 | 8 7 14.829 | 2476 | 64 58.39N | 39 56.61E | 64 37N | 40 38E | 668883 | 24514 | 143 55 | 17 17 | 14 13 | 0 25 | ND | 2.538 |
| 50 | 8 7 17.309 | 2479 | 64 50.32N | 40 10.41E | 64 28N | 40 51E | 668319 | 24515 | 144 9 | 17 34 | 14 14 | 0 24 | ND | 2.535 |
| 51 | 8 7 19.778 | 2478 | 64 42.25N | 40 24.00E | 64 20N | 41 4E | 667757 | 24516 | 144 23 | 17 44 | 14 13 | 0 23 | ND | 2.544 |
| 52 | 8 7 22.253 | 2475 | 64 34.15N | 40 37.48E | 64 12N | 41 17E | 667197 | 24518 | 144 36 | 17 54 | 14 14 | 0 22 | ND | 2.539 |
| 53 | 8 7 24.719 | 2465 | 64 26.06N | 40 50.78E | 64 4N | 41 30E | 666639 | 24519 | 144 49 | 18 3 | 14 14 | 0 21 | ND | 2.549 |
| 54 | 8 7 27.184 | 2465 | 64 17.94N | 41 3.93E | 63 56N | 41 43E | 666084 | 24520 | 145 2 | 18 13 | 14 15 | 0 20 | ND | 2.549 |
| 55 | 8 7 29.644 | 2468 | 64 9.83N | 41 16.92E | 63 48N | 41 56E | 665532 | 24522 | 145 15 | 18 23 | 14 16 | 0 19 | ND | 2.554 |
| 56 | 8 7 32.099 | 2455 | 63 53.55N | 41 29.76E | 63 39N | 42 8E | 664433 | 24524 | 145 40 | 18 52 | 14 17 | 0 17 | ND | 2.559 |
| 57 | 8 7 34.554 | 2458 | 63 45.41N | 41 55.02E | 63 31N | 42 20E | 663887 | 24525 | 145 52 | 18 52 | 14 17 | 0 16 | ND | 2.565 |
| 58 | 8 7 37.003 | 2458 | 63 37.24N | 42 7.45E | 63 15N | 42 44E | 663343 | 24527 | 146 4 | 19 2 | 14 18 | 0 15 | ND | 2.570 |
| 59 | 8 7 39.453 | 2458 | 63 29.06N | 42 19.73E | 63 7N | 42 56E | 662801 | 24528 | 146 17 | 19 11 | 14 18 | 0 14 | ND | 2.570 |
| 60 | 8 7 41.898 | 2445 | 63 20.87N | 42 31.89E | 62 58N | 43 8E | 662260 | 24529 | 146 29 | 19 21 | 14 18 | 0 13 | ND | 2.570 |
| 61 | 8 7 44.344 | 2445 | 63 12.67N | 42 43.90E | 62 50N | 43 20E | 661723 | 24531 | 146 40 | 19 31 | 14 19 | 0 12 | ND | 2.575 |
| 62 | 8 7 46.783 | 2448 | 63 4.47N | 42 55.77E | 62 42N | 43 31E | 661188 | 24532 | 146 52 | 19 40 | 14 20 | 0 10 | ND | 2.580 |
| 63 | 8 7 49.219 | 2435 | 62 56.26N | 43 7.53E | 62 33N | 43 42E | 660655 | 24533 | 147 4 | 19 59 | 14 20 | 0 9 | ND | 2.580 |
| 64 | 8 7 51.653 | 2435 | 62 48.02N | 43 19.17E | 62 25N | 43 54E | 660123 | 24534 | 147 15 | 19 59 | 14 21 | 0 8 | ND | 2.580 |
| 65 | 8 7 54.089 | 2435 | 62 39.80N | 43 30.65E | 62 17N | 44 16E | 659595 | 24535 | 147 26 | 20 9 | 14 21 | 0 7 | ND | 2.591 |
| 66 | 8 7 56.514 | 2425 | 62 31.57N | 43 42.02E | 62 9N | 44 16E | 659069 | 24537 | 147 37 | 20 19 | 14 22 | 0 6 | ND | 2.591 |
| 67 | 8 7 58.938 | 2425 | 62 23.31N | 43 53.28E | 62 0N | 44 27E | 658544 | 24538 | 147 49 | 20 28 | 14 23 | 0 5 | ND | 2.591 |
| 68 | 8 8 1.363 | 2425 | 62 15.06N | 44 4.41E | 61 52N | 44 37E | 658022 | 24539 | 147 59 | 20 38 | 14 24 | 0 3 | ND | 2.596 |
| 69 | 8 8 3.783 | 2420 | 62 6.79N | 44 15.44E | 61 44N | 44 48E | 657501 | 24540 | 148 10 | 20 47 | 14 24 | 0 2 | ND | 2.596 |
| 70 | 8 8 6.203 | 2420 | 61 58.52N | 44 26.33E | 61 35N | 44 59E | 656967 | 24542 | 148 21 | 20 57 | 14 25 | 0 2 | ND | 2.602 |
| 71 | 8 8 8.618 | 2415 | 61 50.23N | 44 37.13E | 61 27N | 45 9E | 656483 | 24543 | 148 32 | 21 6 | 14 25 | 0 0 | ND | 2.602 |
| 72 | 8 8 11.033 | 2415 | 61 41.93N | 44 47.82E | 61 18N | 45 19E | 655952 | 24544 | 148 42 | 21 16 | 14 26 | 0 0 | ND | 2.602 |
| 73 | 8 8 13.448 | 2415 | 61 33.64N | 44 58.37E | 61 10N | 45 30E | 655441 | 24545 | 148 52 | 21 25 | 14 27 | 0 1 | ND | 2.613 |
| 74 | 8 8 15.854 | 2405 | 61 25.34N | 45 8.82E | 61 2N | 45 40E | 654931 | 24546 | 149 3 | 21 35 | 14 28 | 0 2 | ND | 2.613 |
| 75 | 8 8 18.259 | 2405 | 61 17.02N | 45 19.17E | 60 53N | 45 50E | 654424 | 24548 | 149 13 | 21 44 | 14 29 | 0 2 | ND | 2.613 |
| 76 | 8 8 20.663 | 2405 | 61 8.69N | 45 29.43E | 60 45N | 46 0E | 653917 | 24549 | 149 23 | 21 54 | 14 29 | 0 3 | ND | 2.613 |
| 77 | 8 8 23.068 | 2405 | 60 52.05N | 45 39.59E | 60 37N | 46 10E | 653414 | 24550 | 149 33 | 22 3 | 14 31 | 0 4 | ND | 2.618 |
| 78 | 8 8 25.469 | 2408 | 60 43.72N | 45 49.59E | 60 28N | 46 19E | 652913 | 24551 | 149 43 | 22 13 | 14 32 | 0 3 | ND | 2.618 |
| 79 | 8 8 27.859 | 2391 | 60 35.36N | 45 59.52E | 60 20N | 46 29E | 652414 | 24552 | 149 52 | 22 22 | 14 33 | 0 4 | ND | 2.628 |
| 80 | 8 8 30.253 | 2394 | 60 26.99N | 46 9.37E | 60 11N | 46 39E | 651916 | 24553 | 150 2 | 22 32 | 14 33 | 0 4 | ND | 2.628 |
| 81 | 8 8 32.648 | 2395 | 60 18.64N | 46 19.12E | 60 3N | 46 48E | 651420 | 24555 | 150 11 | 22 41 | 14 35 | 0 5 | ND | 2.623 |
| 82 | 8 8 35.043 | 2395 | 60 10.28N | 46 28.75E | 59 55N | 46 58E | 650928 | 24556 | 150 21 | 22 51 | 14 37 | 0 6 | ND | 2.634 |
| 83 | 8 8 37.429 | 2385 | 60 1.93N | 46 38.30E | 59 46N | 47 7E | 650437 | 24557 | 150 30 | 23 0 | 14 38 | 0 6 | ND | 2.634 |
| 84 | 8 8 39.813 | 2385 | 59 53.54N | 46 47.73E | 59 38N | 47 16E | 649949 | 24558 | 150 39 | 23 10 | 14 39 | 0 6 | ND | 2.640 |
| 85 | 8 8 42.193 | 2385 | 59 45.18N | 46 57.11E | 59 29N | 47 25E | 649462 | 24559 | 150 48 | 23 19 | 14 40 | 0 6 | ND | 2.634 |
| 86 | 8 8 44.578 | 2385 | 59 36.08N | 47 6.35E | 59 21N | 47 34E | 648976 | 24560 | 150 58 | 23 28 | 14 41 | 0 6 | ND | 2.646 |
| 87 | 8 8 46.953 | 2375 | 59 28.43N | 47 15.53E | 59 12N | 47 43E | 648497 | 24561 | 151 6 | 23 38 | 14 43 | 0 6 | ND | 2.646 |
| 88 | 8 8 49.328 | 2375 | 59 20.82N | 47 24.68E | 59 4N | 47 52E | 648016 | 24563 | 151 15 | 23 47 | 14 44 | 0 6 | ND | 2.651 |
| 89 | 8 8 51.698 | 2378 | 59 13.61E | 47 33.61E | 58 56N | 48 1E | 647537 | 24564 | 151 24 | 23 57 | 14 45 | 0 6 | ND | 2.646 |
| 90 | 8 8 54.073 | 2375 | | | | | | | | | | | | |

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET!
SPECIAL HANDLING REQUIRED
MISSION 1017-2

TC5 84868-64

PASS 103D FWD 4MARG5 FRAME EPHEMERIS ID 43 LIST DATE 10MAY65 PAGE 36

| FRM | Z TIME | DTM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | | | | | |
|-----|--------|--------|--------|--------|--------|--------|----------|-------|---------|------|--------|-------|-----|------|----|----|----|----|----|----|-------|
| HR | MI | SEC | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MIN | DEG | RATE | | | | | | | |
| 91 | 8 | 56.435 | 59 | 11.66N | 47 | 42.50E | 58 | 47N | 48 | 10E | 647063 | 24565 | 151 | 33 | 24 | 6 | 14 | 45 | -0 | 6 | 2.661 |
| 92 | 8 | 58.804 | 59 | 3.25N | 47 | 51.33E | 58 | 39N | 48 | 18E | 646588 | 24566 | 151 | 41 | 24 | 15 | 14 | 46 | -0 | 5 | 2.652 |
| 93 | 8 | 1.174 | 58 | 54.83N | 48 | 0.09E | 58 | 30N | 48 | 27E | 646115 | 24567 | 151 | 50 | 24 | 25 | 14 | 47 | -0 | 5 | 2.651 |
| 94 | 8 | 3.538 | 58 | 46.42N | 48 | 8.76E | 58 | 22N | 48 | 35E | 645646 | 24568 | 151 | 58 | 24 | 34 | 14 | 48 | -0 | 5 | 2.657 |
| 95 | 8 | 5.903 | 58 | 37.99N | 48 | 17.35E | 58 | 13N | 48 | 44E | 645177 | 24569 | 152 | 7 | 24 | 43 | 14 | 49 | -0 | 4 | 2.657 |
| 96 | 8 | 8.259 | 58 | 29.59N | 48 | 25.84E | 58 | 5N | 48 | 52E | 644711 | 24570 | 152 | 15 | 24 | 52 | 14 | 49 | -0 | 4 | 2.668 |
| 97 | 8 | 10.613 | 58 | 21.18N | 48 | 34.25E | 57 | 57N | 49 | 0E | 644249 | 24571 | 152 | 23 | 25 | 2 | 14 | 50 | -0 | 4 | 2.668 |
| 98 | 8 | 12.970 | 58 | 12.75N | 48 | 42.60E | 57 | 48N | 49 | 0E | 643788 | 24573 | 152 | 31 | 25 | 11 | 14 | 51 | -0 | 3 | 2.667 |
| 99 | 8 | 15.318 | 58 | 4.34N | 48 | 50.85E | 57 | 40N | 49 | 16E | 643329 | 24574 | 152 | 39 | 25 | 20 | 14 | 52 | -0 | 3 | 2.675 |
| 00 | 8 | 17.674 | 57 | 55.89N | 48 | 59.06E | 57 | 31N | 49 | 24E | 642870 | 24575 | 152 | 47 | 25 | 30 | 14 | 53 | -0 | 2 | 2.668 |
| 01 | 8 | 20.023 | 57 | 47.45N | 49 | 7.17E | 57 | 23N | 49 | 32E | 642415 | 24576 | 152 | 55 | 25 | 39 | 14 | 53 | -0 | 2 | 2.674 |
| 02 | 8 | 22.368 | 57 | 39.02N | 49 | 15.21E | 57 | 14N | 49 | 40E | 641962 | 24577 | 153 | 3 | 25 | 48 | 14 | 53 | -0 | 2 | 2.679 |
| 03 | 8 | 24.708 | 57 | 30.60N | 49 | 23.16E | 57 | 6N | 49 | 48E | 641512 | 24578 | 153 | 10 | 25 | 57 | 14 | 54 | -0 | 1 | 2.685 |
| 04 | 8 | 27.043 | 57 | 22.18N | 49 | 31.03E | 56 | 57N | 49 | 56E | 641065 | 24579 | 153 | 18 | 26 | 7 | 14 | 55 | -0 | 1 | 2.691 |
| 05 | 8 | 29.389 | 57 | 13.72N | 49 | 38.87E | 56 | 49N | 50 | 3E | 640616 | 24580 | 153 | 26 | 26 | 16 | 14 | 56 | -0 | 1 | 2.698 |
| 06 | 8 | 31.725 | 57 | 5.28N | 49 | 46.61E | 56 | 40N | 50 | 11E | 640173 | 24581 | 153 | 33 | 26 | 25 | 14 | 57 | -0 | 1 | 2.691 |
| 07 | 8 | 34.060 | 56 | 56.84N | 49 | 54.29E | 56 | 32N | 50 | 19E | 639730 | 24582 | 153 | 41 | 26 | 34 | 14 | 57 | -0 | 1 | 2.698 |
| 08 | 8 | 36.389 | 56 | 48.41N | 50 | 1.09E | 56 | 24N | 50 | 26E | 639291 | 24583 | 153 | 48 | 26 | 43 | 14 | 57 | -0 | 2 | 2.691 |
| 09 | 8 | 38.724 | 56 | 39.94N | 50 | 9.45E | 56 | 15N | 50 | 33E | 638852 | 24584 | 153 | 55 | 26 | 53 | 14 | 58 | -0 | 3 | 2.691 |
| 10 | 8 | 41.059 | 56 | 31.47N | 50 | 16.95E | 56 | 7N | 50 | 41E | 638415 | 24585 | 154 | 2 | 27 | 2 | 14 | 58 | -0 | 4 | 2.691 |
| 11 | 8 | 43.389 | 56 | 23.01N | 50 | 24.37E | 55 | 58N | 50 | 48E | 637980 | 24586 | 154 | 10 | 27 | 11 | 14 | 58 | -0 | 4 | 2.697 |
| 12 | 8 | 45.714 | 56 | 14.55N | 50 | 31.72E | 55 | 50N | 50 | 55E | 637549 | 24587 | 154 | 17 | 27 | 20 | 14 | 59 | -0 | 5 | 2.702 |
| 13 | 8 | 48.043 | 56 | 6.08N | 50 | 39.02E | 55 | 41N | 51 | 2E | 637118 | 24588 | 154 | 24 | 27 | 29 | 14 | 59 | -0 | 5 | 2.697 |
| 14 | 8 | 50.363 | 55 | 57.62N | 50 | 46.24E | 55 | 33N | 51 | 9E | 636690 | 24589 | 154 | 31 | 27 | 38 | 14 | 59 | -0 | 6 | 2.708 |
| 15 | 8 | 52.688 | 55 | 49.14N | 50 | 53.41E | 55 | 24N | 51 | 16E | 636264 | 24590 | 154 | 38 | 27 | 48 | 14 | 59 | -0 | 7 | 2.702 |
| 16 | 8 | 55.003 | 55 | 40.69N | 51 | 0.50E | 55 | 16N | 51 | 23E | 635841 | 24591 | 154 | 44 | 27 | 57 | 14 | 59 | -0 | 8 | 2.714 |
| 17 | 8 | 57.323 | 55 | 32.21N | 51 | 7.55E | 55 | 7N | 51 | 30E | 635419 | 24592 | 154 | 51 | 28 | 6 | 14 | 59 | -0 | 8 | 2.708 |
| 18 | 8 | 59.639 | 55 | 23.74N | 51 | 14.53E | 54 | 59N | 51 | 37E | 635000 | 24593 | 154 | 58 | 28 | 15 | 14 | 59 | -0 | 9 | 2.714 |
| 19 | 8 | 1.948 | 55 | 15.28N | 51 | 21.44E | 54 | 50N | 51 | 44E | 634583 | 24594 | 155 | 4 | 28 | 24 | 14 | 59 | -0 | 10 | 2.720 |
| 20 | 8 | 4.259 | 55 | 6.81N | 51 | 28.30E | 54 | 42N | 51 | 51E | 634168 | 24595 | 155 | 11 | 28 | 33 | 14 | 59 | -0 | 10 | 2.720 |
| 21 | 8 | 6.563 | 54 | 58.35N | 51 | 35.10E | 54 | 33N | 51 | 57E | 633755 | 24596 | 155 | 18 | 28 | 42 | 14 | 59 | -0 | 10 | 2.726 |

Approved

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

| FRM | HR | MI | SEC | DTM | MILS | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN | |
|------|-----|--------|--------|------|------|--------|-----|--------|-----|-----|-----|-----|--------|-------|-----|------|-----|-----|----|-----|----|-----|----|-------|------|-----|-------|--|
| 184A | FWD | 4MAR65 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 9 | 19 | 37.829 | 0 | 38 | 17.47N | 111 | 40.25W | 38 | 58N | 111 | 23W | 964145 | 23851 | 16 | 22 | -50 | 12 | ND | ND | ND | ND | ND | ND | ND | ND | 1.349 | |
| 2 | 9 | 19 | 42.488 | 4659 | 38 | 35.03N | 111 | 33.67W | 39 | 15N | 111 | 16W | 962814 | 23854 | 16 | 28 | -49 | 55 | ND | ND | ND | ND | ND | ND | ND | ND | 1.349 | |
| 3 | 9 | 19 | 46.563 | 4875 | 38 | 50.39N | 111 | 27.86W | 39 | 30N | 111 | 10W | 961648 | 23856 | 16 | 33 | -49 | 40 | ND | ND | ND | ND | ND | ND | ND | ND | 1.542 | |
| 4 | 9 | 19 | 50.503 | 3940 | 39 | 5.22N | 111 | 22.20W | 39 | 45N | 111 | 4W | 960521 | 23859 | 16 | 38 | -49 | 25 | ND | ND | ND | ND | ND | ND | ND | ND | 1.595 | |
| 5 | 9 | 19 | 54.390 | 3886 | 39 | 19.86N | 111 | 16.57W | 40 | 0N | 110 | 58W | 959408 | 23861 | 16 | 43 | -49 | 11 | ND | ND | ND | ND | ND | ND | ND | ND | 1.617 | |
| 6 | 9 | 19 | 58.255 | 3865 | 39 | 34.40N | 111 | 10.92W | 40 | 14N | 110 | 53W | 958301 | 23863 | 16 | 47 | -48 | 57 | ND | ND | ND | ND | ND | ND | ND | ND | 1.626 | |
| 7 | 9 | 20 | 2.104 | 3849 | 39 | 48.88N | 111 | 5.25W | 40 | 29N | 110 | 47W | 957197 | 23866 | 16 | 52 | -48 | 42 | ND | ND | ND | ND | ND | ND | ND | ND | 1.632 | |
| 8 | 9 | 20 | 5.943 | 3840 | 40 | 3.33N | 110 | 59.55W | 40 | 43N | 110 | 41W | 956096 | 23868 | 16 | 57 | -48 | 28 | ND | ND | ND | ND | ND | ND | ND | ND | 1.636 | |
| 9 | 9 | 20 | 9.773 | 3830 | 40 | 17.72N | 110 | 53.81W | 40 | 57N | 110 | 35W | 954996 | 23871 | 17 | 2 | -48 | 14 | ND | ND | ND | ND | ND | ND | ND | ND | 1.641 | |
| 10 | 9 | 20 | 13.604 | 3830 | 40 | 32.12N | 110 | 48.03W | 41 | 12N | 110 | 29W | 953895 | 23873 | 17 | 7 | -48 | 0 | ND | ND | ND | ND | ND | ND | ND | ND | 1.641 | |
| 11 | 9 | 20 | 17.418 | 3815 | 40 | 46.45N | 110 | 42.22W | 41 | 26N | 110 | 23W | 952798 | 23875 | 17 | 12 | -47 | 46 | ND | ND | ND | ND | ND | ND | ND | ND | 1.647 | |
| 12 | 9 | 20 | 21.229 | 3810 | 41 | 0.76N | 110 | 36.36W | 41 | 40N | 110 | 17W | 951702 | 23878 | 17 | 17 | -47 | 32 | ND | ND | ND | ND | ND | ND | ND | ND | 1.649 | |

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TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1840 FWD 4MAR65

FRAME EPIHEMERIS MISSION 1817-2

ID 43

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Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

| FRM | 2 TIME | DTIM | LAT | LONG | LAT | LONG | ALTITUDE | VELOC | DEG MI | DEG MI | PITCH | ROLL | YAW | SCAN |
|-----|--------|--------|---------|-----------|-----------|---------|----------|--------|--------|--------|---------|---------|---------|-------|
| HR | MI | SEC | DEG MIN | DEG MIN | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 1 | 9 38 | 13.473 | 0 | 61 16.38N | 22 39.99E | 60 | 52N | 23 11E | 653686 | 24549 | 149 14 | 21 44 | 14 43 | 2.020 |
| 2 | 9 38 | 16.583 | 3111 | 61 5.60N | 22 53.23E | 60 | 42N | 23 24E | 653035 | 24551 | 149 27 | 21 56 | 14 42 | 2.020 |
| 3 | 9 38 | 19.269 | 2685 | 60 56.28N | 23 4.53E | 60 | 32N | 23 35E | 652475 | 24552 | 149 38 | 22 7 | 14 42 | 2.340 |
| 4 | 9 38 | 21.798 | 2529 | 60 47.48N | 23 15.07E | 60 | 24N | 23 45E | 651948 | 24553 | 149 48 | 22 17 | 14 42 | 2.484 |
| 5 | 9 38 | 24.299 | 2501 | 60 38.76N | 23 25.40E | 60 | 15N | 23 55E | 651430 | 24554 | 149 58 | 22 26 | 14 41 | 2.512 |
| 6 | 9 38 | 26.737 | 2439 | 60 30.24N | 23 35.37E | 60 | 6N | 24 5E | 650927 | 24556 | 150 8 | 22 36 | 14 40 | 2.576 |
| 7 | 9 38 | 29.167 | 2430 | 60 21.74N | 23 45.21E | 59 | 58N | 24 15E | 650427 | 24557 | 150 18 | 22 46 | 14 39 | 2.586 |
| 8 | 9 38 | 31.593 | 2425 | 60 13.24N | 23 54.95E | 59 | 49N | 24 24E | 649929 | 24558 | 150 27 | 22 55 | 14 39 | 2.591 |
| 9 | 9 38 | 34.009 | 2416 | 60 4.76N | 24 4.56E | 59 | 41N | 24 33E | 649436 | 24559 | 150 36 | 23 5 | 14 38 | 2.601 |
| 10 | 9 38 | 36.417 | 2409 | 59 56.30N | 24 14.05E | 59 | 32N | 24 43E | 648945 | 24560 | 150 46 | 23 14 | 14 37 | 2.608 |
| 11 | 9 38 | 38.817 | 2400 | 59 47.85N | 24 23.43E | 59 | 24N | 24 52E | 648458 | 24561 | 150 55 | 23 24 | 14 36 | 2.618 |
| 12 | 9 38 | 41.223 | 2405 | 59 39.37N | 24 32.74E | 59 | 16N | 25 1E | 647972 | 24562 | 151 4 | 23 33 | 14 34 | 2.613 |
| 13 | 9 38 | 43.613 | 2391 | 59 30.92N | 24 41.92E | 59 | 7N | 25 10E | 647489 | 24564 | 151 13 | 23 42 | 14 33 | 2.628 |
| 14 | 9 38 | 46.002 | 2389 | 59 22.48N | 24 51.01E | 58 | 59N | 25 19E | 647010 | 24565 | 151 22 | 23 52 | 14 32 | 2.630 |
| 15 | 9 38 | 48.388 | 2385 | 59 14.03N | 25 0.00E | 58 | 50N | 25 27E | 646532 | 24566 | 151 30 | 24 1 | 14 31 | 2.634 |
| 16 | 9 38 | 50.772 | 2385 | 59 5.57N | 25 8.92E | 58 | 42N | 25 36E | 646056 | 24567 | 151 39 | 24 10 | 14 30 | 2.634 |
| 17 | 9 38 | 53.157 | 2385 | 58 57.10N | 25 17.75E | 58 | 33N | 25 45E | 645582 | 24568 | 151 48 | 24 20 | 14 28 | 2.634 |
| 18 | 9 38 | 55.527 | 2370 | 58 48.67N | 25 26.46E | 58 | 25N | 25 53E | 645113 | 24569 | 151 56 | 24 29 | 14 27 | 2.651 |
| 19 | 9 38 | 57.902 | 2375 | 58 40.21N | 25 35.11E | 58 | 17N | 26 1E | 644645 | 24570 | 152 5 | 24 38 | 14 26 | 2.646 |
| 20 | 9 39 | 0.272 | 2370 | 58 31.75N | 25 43.67E | 58 | 8N | 26 9E | 644178 | 24571 | 152 13 | 24 48 | 14 24 | 2.651 |
| 21 | 9 39 | 2.647 | 2375 | 58 23.27N | 25 52.17E | 58 | 0N | 26 18E | 643713 | 24572 | 152 21 | 24 57 | 14 22 | 2.646 |
| 22 | 9 39 | 5.013 | 2365 | 58 14.81N | 26 0.57E | 57 | 51N | 26 26E | 643251 | 24574 | 152 29 | 25 6 | 14 21 | 2.657 |
| 23 | 9 39 | 7.372 | 2360 | 58 6.36N | 26 8.87E | 57 | 43N | 26 34E | 642793 | 24575 | 152 37 | 25 16 | 14 20 | 2.662 |
| 24 | 9 39 | 9.732 | 2360 | 57 57.90N | 26 17.11E | 57 | 34N | 26 42E | 642336 | 24576 | 152 45 | 25 25 | 14 19 | 2.662 |
| 25 | 9 39 | 12.093 | 2360 | 57 49.43N | 26 25.28E | 57 | 26N | 26 50E | 641880 | 24577 | 152 53 | 25 34 | 14 17 | 2.662 |
| 26 | 9 39 | 14.452 | 2360 | 57 40.95N | 26 33.38E | 57 | 17N | 26 58E | 641426 | 24578 | 153 1 | 25 43 | 14 17 | 2.662 |
| 27 | 9 39 | 16.803 | 2350 | 57 32.49N | 26 41.38E | 57 | 9N | 27 5E | 640976 | 24579 | 153 9 | 25 53 | 14 16 | 2.674 |
| 28 | 9 39 | 19.152 | 2350 | 57 24.02N | 26 49.32E | 57 | 0N | 27 13E | 640528 | 24580 | 153 17 | 26 2 | 14 16 | 2.674 |
| 29 | 9 39 | 21.491 | 2339 | 57 15.58N | 26 57.15E | 56 | 52N | 27 21E | 640083 | 24581 | 153 24 | 26 11 | 14 16 | 2.686 |
| 30 | 9 39 | 23.831 | 2340 | 57 7.13N | 27 4.92E | 56 | 44N | 27 28E | 639640 | 24582 | 153 32 | 26 20 | 14 16 | 2.686 |
| 31 | 9 42 | 0.232 | 56401 | 47 24.93N | 33 51.73E | 46 | 59N | 28 6E | 614359 | 24642 | 159 57 | 36 37 | 15 11 | 0.4 |
| 32 | 9 42 | 3.333 | 3101 | 47 13.12N | 33 58.05E | 46 | 47N | 28 13E | 613847 | 24643 | 160 2 | 36 49 | 15 12 | 0.4 |
| 33 | 9 42 | 5.898 | 2565 | 47 3.35N | 34 3.24E | 46 | 38N | 28 18E | 613509 | 24644 | 160 7 | 36 59 | 15 12 | 0.4 |
| 34 | 9 42 | 8.299 | 2400 | 46 54.19N | 34 8.07E | 46 | 29N | 28 23E | 613195 | 24645 | 160 12 | 37 9 | 15 13 | 0.4 |
| 35 | 9 42 | 10.603 | 2304 | 46 45.40N | 34 12.67E | 46 | 20N | 28 27E | 612895 | 24645 | 160 16 | 37 18 | 15 13 | 0.4 |
| 36 | 9 42 | 12.903 | 2301 | 46 36.62N | 34 17.24E | 46 | 11N | 28 32E | 612599 | 24646 | 160 20 | 37 27 | 15 13 | 0.4 |
| 37 | 9 42 | 15.162 | 2259 | 46 28.00N | 34 21.70E | 46 | 2N | 28 36E | 612210 | 24647 | 160 28 | 37 36 | 15 13 | 0.4 |
| 38 | 9 42 | 17.417 | 2255 | 46 19.38N | 34 26.13E | 45 | 54N | 28 41E | 611823 | 24647 | 160 37 | 37 44 | 15 13 | 0.4 |
| 39 | 9 42 | 19.662 | 2245 | 46 10.80N | 34 30.51E | 45 | 45N | 28 45E | 611440 | 24648 | 160 32 | 37 53 | 15 12 | 0.4 |
| 40 | 9 42 | 21.907 | 2245 | 46 2.21N | 34 34.87E | 45 | 37N | 28 49E | 611058 | 24649 | 160 36 | 38 2 | 15 12 | 0.4 |
| 41 | 9 42 | 24.147 | 2240 | 45 53.64N | 34 39.19E | 45 | 28N | 28 54E | 611180 | 24649 | 160 40 | 38 11 | 15 11 | 0.4 |
| 42 | 9 42 | 26.388 | 2240 | 45 45.07N | 34 43.40E | 45 | 20N | 28 58E | 610983 | 24650 | 160 44 | 38 19 | 15 10 | 0.4 |
| 43 | 9 42 | 28.622 | 2235 | 45 36.51N | 34 47.74E | 45 | 11N | 29 2E | 610629 | 24651 | 160 48 | 38 28 | 15 9 | 0.4 |
| 44 | 9 42 | 30.857 | 2235 | 45 27.94N | 34 51.98E | 45 | 3N | 29 6E | 610357 | 24651 | 160 51 | 38 37 | 15 9 | 0.4 |
| 45 | 9 42 | 33.089 | 2231 | 45 19.39N | 34 56.19E | 44 | 54N | 29 11E | 610087 | 24652 | 160 55 | 38 45 | 15 8 | 0.4 |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1040 FWD 4MARS65

FRAME EPHMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65 PAGE 39

| FRM | 2 TIME | HR MI SEC | DTM | MILS | DEG MIN | LAT | DEG MIN | LONG | DEG MIN | LAT | DEG MIN | LONG | ALTITUDE FEET | VELOC F/S | DEG MI | DEG MI | SUN/ | PITCH DEG MIN | ROLL DEG MIN | YAW DEG MIN | SCAN RATE |
|-----|--------|-----------|------|------|---------|-----|---------|------|---------|-----|---------|--------|---------------|-----------|--------|--------|------|---------------|--------------|-------------|-----------|
| 46 | 9 42 | 35.322 | 2234 | 45 | 10.83N | 35 | 0.38E | 44 | 46N | 35 | 15E | 609819 | 24653 | 160 | 59 | 38 | 54 | 15 | 7 | 15 | 2.813 |
| 47 | 9 42 | 37.548 | 2225 | 45 | 2.29N | 35 | 4.52E | 44 | 37N | 35 | 19E | 609554 | 24653 | 161 | 3 | 39 | 3 | 15 | 6 | 15 | 2.824 |
| 48 | 9 42 | 39.777 | 2230 | 44 | 53.73N | 35 | 8.66E | 44 | 29N | 35 | 23E | 609291 | 24654 | 161 | 6 | 39 | 11 | 15 | 5 | 15 | 2.818 |
| 49 | 9 42 | 42.003 | 2226 | 44 | 45.19N | 35 | 12.76E | 44 | 20N | 35 | 27E | 609031 | 24654 | 161 | 10 | 39 | 20 | 15 | 3 | 15 | 2.823 |
| 50 | 9 42 | 44.232 | 2229 | 44 | 36.63N | 35 | 16.85E | 44 | 12N | 35 | 31E | 608771 | 24654 | 161 | 14 | 39 | 29 | 15 | 2 | 15 | 2.819 |
| 51 | 9 42 | 46.452 | 2220 | 44 | 28.10N | 35 | 20.93E | 44 | 3N | 35 | 35E | 608515 | 24656 | 161 | 17 | 39 | 37 | 15 | 1 | 15 | 2.830 |
| 52 | 9 42 | 48.678 | 2225 | 44 | 19.54N | 35 | 24.93E | 43 | 55N | 35 | 39E | 608261 | 24656 | 161 | 21 | 39 | 46 | 14 | 59 | 14 | 2.824 |
| 53 | 9 42 | 50.902 | 2225 | 44 | 10.99N | 35 | 28.94E | 43 | 46N | 35 | 43E | 608009 | 24657 | 161 | 24 | 39 | 54 | 14 | 58 | 14 | 2.824 |
| 54 | 9 42 | 53.127 | 2225 | 44 | 2.43N | 35 | 32.93E | 43 | 38N | 35 | 47E | 607759 | 24658 | 161 | 28 | 40 | 3 | 14 | 57 | 14 | 2.824 |
| 55 | 9 42 | 55.343 | 2215 | 43 | 53.90N | 35 | 36.88E | 43 | 29N | 35 | 51E | 607511 | 24658 | 161 | 32 | 40 | 12 | 14 | 55 | 14 | 2.837 |
| 56 | 9 42 | 57.563 | 2220 | 43 | 45.35N | 35 | 40.82E | 43 | 21N | 35 | 55E | 607265 | 24659 | 161 | 35 | 40 | 20 | 14 | 53 | 14 | 2.830 |
| 57 | 9 42 | 59.787 | 2225 | 43 | 36.79N | 35 | 44.74E | 43 | 12N | 35 | 59E | 607022 | 24659 | 161 | 38 | 40 | 29 | 14 | 52 | 14 | 2.824 |
| 58 | 9 43 | 1.998 | 2211 | 43 | 28.27N | 35 | 48.62E | 43 | 4N | 36 | 3E | 606780 | 24660 | 161 | 42 | 40 | 37 | 14 | 50 | 14 | 2.842 |
| 59 | 9 43 | 4.218 | 2219 | 43 | 19.71N | 35 | 52.49E | 42 | 55N | 36 | 7E | 606541 | 24660 | 161 | 45 | 40 | 46 | 14 | 49 | 14 | 2.832 |
| 60 | 9 43 | 6.433 | 2215 | 43 | 11.17N | 35 | 56.34E | 42 | 47N | 36 | 10E | 606304 | 24661 | 161 | 49 | 40 | 55 | 14 | 47 | 14 | 2.837 |
| 61 | 9 43 | 8.652 | 2220 | 43 | 2.61N | 36 | 0.17E | 42 | 38N | 36 | 14E | 606068 | 24662 | 161 | 52 | 41 | 3 | 14 | 45 | 14 | 2.830 |
| 62 | 9 43 | 10.863 | 2211 | 42 | 54.08N | 36 | 3.97E | 42 | 30N | 36 | 18E | 605837 | 24662 | 161 | 55 | 41 | 12 | 14 | 43 | 14 | 2.842 |
| 63 | 9 43 | 13.077 | 2214 | 42 | 45.53N | 36 | 7.76E | 42 | 21N | 36 | 22E | 605606 | 24663 | 161 | 59 | 41 | 20 | 14 | 42 | 14 | 2.838 |

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TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

FRAME EPHMERIS . MISSION 1017-2

SPECIAL HANDLING REQUIRED

ID 43

LIST DATE 10MAY65 PAGE 40

| FRM | 2 TIME | HR | MI | SEC | DTIM | MILS | DEG | LAT | DEG | MIN | DEG | LONG | DEG | LAT | MIN | DEG | LONG | ALTITUDE | FEET | F/S | DEG | MI | DEG | MI | DEG | MI | PITCH | DEG | MIN | ROLL | DEG | MIN | YAW | DEG | MIN | SCAN | RATE |
|-----|--------|----|----|-----|------|------|-----|--------|-----|--------|-----|------|-----|-----|--------|-------|------|----------|------|-----|-----|----|-----|----|-----|-------|-------|-------|-----|------|-----|-----|-----|-----|-----|------|------|
| 1 | 20 | 13 | 27 | 176 | 0 | 3100 | 38 | 11.92N | 120 | 41.22W | 37 | 47N | 120 | 36W | 599998 | 24675 | 163 | 34 | 45 | 55 | 14 | 54 | 0 | 17 | 0 | 18 | ND | 2.027 | | | | | | | | | |
| 2 | 20 | 13 | 30 | 276 | 0 | 3100 | 37 | 59.83N | 120 | 36.72W | 37 | 35N | 120 | 25W | 599881 | 24675 | 163 | 38 | 46 | 7 | 14 | 55 | 0 | 18 | ND | 2.027 | | | | | | | | | | | |
| 3 | 20 | 13 | 32 | 828 | 2552 | 2552 | 37 | 49.88N | 120 | 33.03W | 37 | 25N | 120 | 22W | 599642 | 24676 | 163 | 41 | 46 | 17 | 14 | 56 | 0 | 18 | ND | 2.462 | | | | | | | | | | | |
| 4 | 20 | 13 | 35 | 197 | 2369 | 2369 | 37 | 40.63N | 120 | 29.63W | 37 | 16N | 120 | 18W | 599498 | 24676 | 163 | 43 | 46 | 27 | 14 | 57 | 0 | 19 | ND | 2.652 | | | | | | | | | | | |
| 5 | 20 | 13 | 37 | 477 | 2279 | 2279 | 37 | 31.73N | 120 | 26.37W | 37 | 7N | 120 | 15W | 599361 | 24676 | 163 | 46 | 46 | 36 | 14 | 58 | 0 | 19 | ND | 2.757 | | | | | | | | | | | |
| 6 | 20 | 13 | 39 | 736 | 2260 | 2260 | 37 | 22.91N | 120 | 23.15W | 36 | 58N | 120 | 12W | 599227 | 24677 | 163 | 49 | 46 | 44 | 14 | 59 | 0 | 20 | ND | 2.780 | | | | | | | | | | | |
| 7 | 20 | 13 | 41 | 982 | 2246 | 2246 | 37 | 14.14N | 120 | 19.97W | 36 | 49N | 120 | 9W | 599087 | 24677 | 163 | 51 | 46 | 53 | 15 | 1 | 0 | 20 | ND | 2.798 | | | | | | | | | | | |
| 8 | 20 | 13 | 44 | 222 | 2239 | 2239 | 37 | 5.39N | 120 | 16.81W | 36 | 41N | 120 | 5W | 598970 | 24677 | 163 | 54 | 47 | 2 | 15 | 2 | 0 | 20 | ND | 2.806 | | | | | | | | | | | |
| 9 | 20 | 13 | 46 | 451 | 2230 | 2230 | 36 | 56.68N | 120 | 13.67W | 36 | 32N | 120 | 2W | 598846 | 24678 | 163 | 57 | 47 | 11 | 15 | 3 | 0 | 20 | ND | 2.818 | | | | | | | | | | | |
| 10 | 20 | 13 | 48 | 682 | 2230 | 2230 | 36 | 47.96N | 120 | 10.56W | 36 | 23N | 119 | 59W | 598722 | 24678 | 163 | 59 | 47 | 20 | 15 | 4 | 0 | 20 | ND | 2.818 | | | | | | | | | | | |
| 11 | 20 | 13 | 50 | 911 | 2230 | 2230 | 36 | 39.25N | 120 | 7.45W | 36 | 14N | 119 | 56W | 598603 | 24678 | 164 | 2 | 47 | 28 | 15 | 5 | 0 | 20 | ND | 2.818 | | | | | | | | | | | |
| 12 | 20 | 13 | 53 | 137 | 2225 | 2225 | 36 | 30.54N | 120 | 4.37W | 36 | 6N | 119 | 53W | 598485 | 24678 | 164 | 4 | 47 | 37 | 15 | 6 | 0 | 20 | ND | 2.824 | | | | | | | | | | | |
| 13 | 20 | 13 | 55 | 361 | 2225 | 2225 | 36 | 21.04N | 120 | 1.30W | 35 | 57N | 119 | 50W | 598369 | 24679 | 164 | 7 | 47 | 46 | 15 | 7 | 0 | 20 | ND | 2.824 | | | | | | | | | | | |
| 14 | 20 | 13 | 57 | 576 | 2215 | 2215 | 36 | 13.18N | 119 | 58.26W | 35 | 48N | 119 | 47W | 598257 | 24679 | 164 | 9 | 47 | 54 | 15 | 9 | 0 | 20 | ND | 2.837 | | | | | | | | | | | |
| 15 | 20 | 13 | 59 | 797 | 2221 | 2221 | 36 | 4.49N | 119 | 55.22W | 35 | 39N | 119 | 44W | 598147 | 24679 | 164 | 11 | 48 | 3 | 15 | 10 | 0 | 19 | ND | 2.829 | | | | | | | | | | | |
| 16 | 20 | 14 | 2 | 017 | 2219 | 2219 | 35 | 55.80N | 119 | 52.19W | 35 | 31N | 119 | 41W | 598038 | 24680 | 164 | 14 | 48 | 12 | 15 | 11 | 0 | 19 | ND | 2.832 | | | | | | | | | | | |
| 17 | 20 | 14 | 4 | 237 | 2221 | 2221 | 35 | 47.10N | 119 | 49.18W | 35 | 22N | 119 | 38W | 597932 | 24680 | 164 | 16 | 48 | 20 | 15 | 12 | 0 | 19 | ND | 2.829 | | | | | | | | | | | |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1160 FWD 5MAR65

FRAME EPHEMERIS MISSTON 1017-2

ID 43

LIST DATE 18MAY65

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| FRM | Z TIME | DTIM | DEG MIN | DEG LONG | DEG MIN | DEG LONG | ALTITUDE FEET | VELOC F/S | DEG MI | DEG SUN/ | PITCH DEG MIN | ROLL DEG MIN | YAW DEG MIN | SCAN RATE |
|-----|-------------|-------|-----------|------------|---------|----------|---------------|-----------|--------|----------|---------------|--------------|-------------|-----------|
| 1 | 3 37 9.365 | 0 | 59 7.93N | 113 7.87E | 58 43N | 113 35E | 641286 | 24576 | 151 37 | 24 13 | 15 12 | -0 14 | ND | 1.939 |
| 2 | 3 37 12.686 | 3241 | 58 56.41N | 113 19.89E | 58 31N | 113 47E | 648689 | 24577 | 151 49 | 24 25 | 15 12 | -0 13 | ND | 1.939 |
| 3 | 3 37 15.256 | 2649 | 58 46.98N | 113 29.61E | 58 22N | 113 56E | 648284 | 24578 | 151 58 | 24 36 | 15 13 | -0 13 | ND | 2.372 |
| 4 | 3 37 17.757 | 2501 | 58 38.07N | 113 38.71E | 58 13N | 114 5E | 639747 | 24579 | 152 7 | 24 46 | 15 13 | -0 13 | ND | 2.512 |
| 5 | 3 37 20.181 | 2424 | 58 29.42N | 113 47.44E | 58 4N | 114 14E | 639307 | 24580 | 152 16 | 24 56 | 15 13 | -0 13 | ND | 2.592 |
| 6 | 3 37 22.578 | 2390 | 58 20.87N | 113 55.98E | 57 56N | 114 22E | 638874 | 24581 | 152 24 | 25 5 | 15 13 | -0 13 | ND | 2.629 |
| 7 | 3 37 24.936 | 2365 | 58 12.41N | 114 4.35E | 57 47N | 114 30E | 638447 | 24582 | 152 32 | 25 15 | 15 13 | -0 13 | ND | 2.657 |
| 8 | 3 37 27.296 | 2360 | 58 3.95N | 114 12.64E | 57 39N | 114 38E | 638023 | 24583 | 152 40 | 25 24 | 15 13 | -0 12 | ND | 2.662 |
| 9 | 3 37 29.646 | 2350 | 57 55.52N | 114 20.83E | 57 30N | 114 46E | 637603 | 24584 | 152 48 | 25 33 | 15 13 | -0 12 | ND | 2.674 |
| 10 | 3 37 31.998 | 2345 | 57 47.09N | 114 28.92E | 57 22N | 114 54E | 637185 | 24585 | 152 56 | 25 43 | 15 13 | -0 12 | ND | 2.679 |
| 11 | 3 37 34.325 | 2335 | 57 38.78N | 114 36.92E | 57 13N | 115 2E | 636771 | 24586 | 153 4 | 25 52 | 15 13 | -0 11 | ND | 2.691 |
| 12 | 3 37 36.665 | 2340 | 57 30.27N | 114 44.87E | 57 5N | 115 10E | 636357 | 24587 | 153 11 | 26 1 | 15 13 | -0 11 | ND | 2.685 |
| 13 | 3 37 39.008 | 2335 | 57 21.85N | 114 52.74E | 56 57N | 115 17E | 635947 | 24588 | 153 19 | 26 11 | 15 13 | -0 10 | ND | 2.691 |
| 14 | 3 37 41.325 | 2325 | 57 13.46N | 115 0.51E | 56 48N | 115 25E | 635533 | 24589 | 153 26 | 26 20 | 15 13 | -0 8 | ND | 2.702 |
| 15 | 3 37 43.658 | 2325 | 57 5.05N | 115 8.22E | 56 40N | 115 33E | 635133 | 24590 | 153 34 | 26 29 | 15 13 | -0 6 | ND | 2.702 |
| 16 | 3 37 45.971 | 2320 | 56 56.66N | 115 15.85E | 56 31N | 115 40E | 634730 | 24591 | 153 41 | 26 38 | 15 13 | -0 5 | ND | 2.708 |
| 17 | 3 37 48.296 | 2325 | 56 48.24N | 115 23.43E | 56 23N | 115 47E | 634328 | 24592 | 153 49 | 26 48 | 15 13 | -0 4 | ND | 2.702 |
| 18 | 3 37 50.618 | 2315 | 56 39.84N | 115 30.92E | 56 15N | 115 55E | 633929 | 24593 | 153 56 | 26 57 | 15 13 | -0 2 | ND | 2.714 |
| 19 | 3 37 52.922 | 2311 | 56 31.45N | 115 38.35E | 56 6N | 116 2E | 633533 | 24594 | 154 3 | 27 6 | 15 13 | -0 1 | ND | 2.719 |
| 20 | 3 37 55.236 | 2315 | 56 23.04N | 115 45.72E | 55 58N | 116 9E | 633137 | 24595 | 154 10 | 27 15 | 15 13 | 0 1 | ND | 2.714 |
| 21 | 3 37 57.552 | 2315 | 56 14.62N | 115 53.04E | 55 49N | 116 17E | 632743 | 24596 | 154 17 | 27 25 | 15 12 | 0 0 | ND | 2.714 |
| 22 | 3 37 59.868 | 2300 | 56 6.21N | 116 0.27E | 55 41N | 116 24E | 632352 | 24597 | 154 24 | 27 34 | 15 12 | 0 0 | ND | 2.721 |
| 23 | 3 38 2.168 | 2300 | 55 57.83N | 116 7.43E | 55 33N | 116 31E | 631965 | 24598 | 154 31 | 27 43 | 15 11 | 0 0 | ND | 2.732 |
| 24 | 3 38 4.471 | 2310 | 55 49.40N | 116 14.56E | 55 24N | 116 38E | 631577 | 24599 | 154 38 | 27 52 | 15 11 | 0 0 | ND | 2.720 |
| 25 | 3 38 6.771 | 2300 | 55 41.00N | 116 21.61E | 55 16N | 116 45E | 631192 | 24599 | 154 45 | 28 1 | 15 10 | 0 0 | ND | 2.732 |
| 26 | 3 38 9.078 | 2300 | 55 32.59N | 116 28.68E | 55 8N | 116 51E | 630810 | 24600 | 154 51 | 28 10 | 15 10 | 0 0 | ND | 2.732 |
| 27 | 3 38 11.378 | 2300 | 55 24.17N | 116 35.54E | 54 59N | 116 58E | 630429 | 24601 | 154 58 | 28 20 | 15 9 | 0 0 | ND | 2.732 |
| 28 | 3 38 13.665 | 2295 | 55 15.76N | 116 42.41E | 54 51N | 117 5E | 630051 | 24602 | 155 5 | 28 29 | 15 8 | 0 0 | ND | 2.738 |
| 29 | 3 38 15.966 | 2300 | 55 7.33N | 116 49.24E | 54 42N | 117 12E | 629673 | 24603 | 155 11 | 28 38 | 15 7 | 0 0 | ND | 2.752 |
| 30 | 3 38 18.258 | 2285 | 54 58.94N | 116 55.98E | 54 34N | 117 18E | 629308 | 24604 | 155 18 | 28 47 | 15 6 | 0 0 | ND | 2.752 |
| 31 | 3 38 20.558 | 37585 | 52 39.94N | 118 39.97E | 52 16N | 119 0E | 623416 | 24618 | 156 57 | 31 15 | 14 32 | 0 26 | ND | 0.167 |
| 32 | 3 38 22.858 | 37585 | 52 28.38N | 118 48.02E | 52 5N | 119 8E | 622951 | 24619 | 157 4 | 31 28 | 14 33 | 0 27 | ND | 2.023 |
| 33 | 3 39 1.521 | 2579 | 52 18.76N | 118 54.65E | 51 55N | 119 14E | 622568 | 24620 | 157 11 | 31 38 | 14 33 | 0 28 | ND | 2.436 |
| 34 | 3 39 3.936 | 2415 | 52 9.75N | 119 0.82E | 51 46N | 119 20E | 622211 | 24621 | 157 16 | 31 48 | 14 35 | 0 28 | ND | 2.682 |
| 35 | 3 39 6.288 | 2345 | 52 1.00N | 119 6.75E | 51 37N | 119 26E | 621867 | 24621 | 157 22 | 31 57 | 14 36 | 0 28 | ND | 2.679 |
| 36 | 3 39 8.591 | 2310 | 51 52.36N | 119 12.57E | 51 28N | 119 32E | 621538 | 24622 | 157 28 | 32 6 | 14 36 | 0 28 | ND | 2.720 |
| 37 | 3 39 10.882 | 2291 | 51 43.80N | 119 18.29E | 51 18N | 119 37E | 621198 | 24623 | 157 33 | 32 16 | 14 37 | 0 28 | ND | 2.743 |
| 38 | 3 39 13.165 | 2284 | 51 35.25N | 119 23.95E | 51 11N | 119 43E | 620868 | 24624 | 157 38 | 32 25 | 14 38 | 0 27 | ND | 2.751 |
| 39 | 3 39 15.436 | 2270 | 51 26.75N | 119 29.55E | 51 3N | 119 48E | 620542 | 24625 | 157 44 | 32 34 | 14 38 | 0 26 | ND | 2.768 |
| 40 | 3 39 17.787 | 2272 | 51 18.24N | 119 35.10E | 50 54N | 119 54E | 620218 | 24625 | 157 49 | 32 43 | 14 39 | 0 25 | ND | 2.765 |
| 41 | 3 39 19.971 | 2263 | 51 9.75N | 119 40.61E | 50 46N | 119 59E | 619897 | 24626 | 157 54 | 32 52 | 14 39 | 0 25 | ND | 2.776 |
| 42 | 3 39 22.238 | 2260 | 51 1.27N | 119 46.06E | 50 37N | 120 4E | 619578 | 24627 | 157 59 | 33 1 | 14 40 | 0 22 | ND | 2.788 |
| 43 | 3 39 24.485 | 2255 | 50 52.81N | 119 51.47E | 50 29N | 120 10E | 619262 | 24628 | 158 4 | 33 10 | 14 40 | 0 21 | ND | 2.786 |
| 44 | 3 39 26.745 | 2260 | 50 44.32N | 119 56.85E | 50 20N | 120 15E | 618946 | 24628 | 158 9 | 33 19 | 14 40 | 0 20 | ND | 2.780 |
| 45 | 3 39 29.008 | 2255 | 50 05.84N | 120 2.19E | 50 12N | 120 20E | 618634 | 24629 | 158 14 | 33 28 | 14 41 | 0 19 | ND | 2.786 |

TOP SECRET

HANDLE VIA

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

| FRM | 2 TIME | DTIM | CAMERA | FORMAT | ALTITUDE | VELOC | DEG MI | DEG MI | PITCH | ROLL | YAW | SCAN | | | | | |
|-------|-------------|-------|-----------|--------|----------|-------|--------|--------|-------|--------|-------|--------|-------|-------|-------|----|-------|
| HR MI | SEC | MILS | LAT | MIN | LONG | DEG | MIN | DEG | MIN | DEG | MIN | RATE | | | | | |
| 46 | 3 39 31.256 | 2255 | 50 27.36N | 120 | 7.49E | 50 | 3N | 120 | 25E | 618324 | 24630 | 158 19 | 33 37 | 14 41 | 0 19 | ND | 2.786 |
| 47 | 3 39 33.506 | 2250 | 50 16.89N | 120 | 12.75E | 49 | 55N | 120 | 30E | 618016 | 24631 | 158 24 | 33 46 | 14 41 | 0 18 | ND | 2.793 |
| 48 | 3 39 35.757 | 2251 | 50 10.41N | 120 | 17.97E | 49 | 46N | 120 | 35E | 617709 | 24631 | 158 29 | 33 55 | 14 42 | 0 18 | ND | 2.791 |
| 49 | 3 39 38.007 | 2250 | 50 1.93N | 120 | 23.16E | 49 | 38N | 120 | 40E | 617405 | 24632 | 158 34 | 34 4 | 14 42 | 0 18 | ND | 2.793 |
| 50 | 3 39 40.256 | 2249 | 49 53.45N | 120 | 28.31E | 49 | 29N | 120 | 45E | 617103 | 24633 | 158 39 | 34 13 | 14 42 | 0 18 | ND | 2.794 |
| 51 | 3 39 42.508 | 2245 | 49 44.98N | 120 | 33.42E | 49 | 21N | 120 | 50E | 616803 | 24633 | 158 43 | 34 22 | 14 42 | 0 17 | ND | 2.799 |
| 52 | 3 39 44.740 | 2240 | 49 36.52N | 120 | 38.48E | 49 | 12N | 120 | 55E | 616505 | 24634 | 158 48 | 34 31 | 14 42 | 0 17 | ND | 2.805 |
| 53 | 3 39 46.980 | 2240 | 49 28.06N | 120 | 43.52E | 49 | 4N | 121 | 0E | 616209 | 24635 | 158 53 | 34 40 | 14 42 | 0 18 | ND | 2.805 |
| 54 | 3 39 49.221 | 2240 | 49 19.59N | 120 | 48.55E | 48 | 55N | 121 | 5E | 615916 | 24636 | 158 57 | 34 49 | 14 42 | 0 18 | ND | 2.805 |
| 55 | 3 39 51.461 | 2240 | 49 11.12N | 120 | 53.49E | 48 | 47N | 121 | 10E | 615624 | 24636 | 159 2 | 34 57 | 14 42 | 0 18 | ND | 2.805 |
| 56 | 3 42 3.540 | 32080 | 40 44.51N | 125 | 0.440E | 40 | 20N | 125 | 12E | 601945 | 24669 | 162 44 | 43 43 | 14 54 | -0 15 | ND | 0.048 |
| 57 | 3 42 6.596 | 3055 | 40 32.65N | 125 | 5.23E | 40 | 8N | 125 | 16E | 601714 | 24670 | 162 48 | 43 55 | 14 54 | -0 15 | ND | 2.057 |
| 58 | 3 42 9.110 | 2515 | 40 22.89N | 125 | 9.18E | 39 | 58N | 125 | 20E | 601528 | 24670 | 162 51 | 44 5 | 14 54 | -0 15 | ND | 2.498 |
| 59 | 3 42 11.466 | 2355 | 40 13.75N | 125 | 12.86E | 39 | 49N | 125 | 24E | 601355 | 24670 | 162 54 | 44 14 | 14 54 | -0 14 | ND | 2.668 |
| 60 | 3 42 13.756 | 2290 | 40 4.85N | 125 | 16.42E | 39 | 40N | 125 | 27E | 601031 | 24671 | 162 57 | 44 32 | 14 53 | -0 13 | ND | 2.794 |
| 61 | 3 42 16.007 | 2251 | 39 56.10N | 125 | 19.90E | 39 | 31N | 125 | 31E | 601031 | 24671 | 163 3 | 44 32 | 14 53 | -0 12 | ND | 2.791 |
| 62 | 3 42 18.246 | 2240 | 39 47.40N | 125 | 23.34E | 39 | 23N | 125 | 34E | 600874 | 24672 | 163 3 | 44 41 | 14 52 | -0 11 | ND | 2.805 |
| 63 | 3 42 20.480 | 2234 | 39 38.71N | 125 | 26.77E | 39 | 14N | 125 | 38E | 600719 | 24672 | 163 6 | 44 49 | 14 52 | -0 11 | ND | 2.813 |
| 64 | 3 42 22.712 | 2231 | 39 30.04N | 125 | 30.17E | 39 | 5N | 125 | 41E | 600567 | 24672 | 163 9 | 44 58 | 14 51 | -0 6 | ND | 2.816 |
| 65 | 3 42 24.936 | 2224 | 39 21.39N | 125 | 33.54E | 38 | 57N | 125 | 45E | 600418 | 24673 | 163 12 | 45 7 | 14 50 | -0 4 | ND | 2.825 |
| 66 | 3 42 27.168 | 2225 | 39 12.73N | 125 | 36.90E | 38 | 48N | 125 | 48E | 600271 | 24673 | 163 15 | 45 16 | 14 50 | -0 3 | ND | 2.824 |
| 67 | 3 42 29.377 | 2216 | 39 4.10N | 125 | 40.23E | 38 | 39N | 125 | 51E | 600126 | 24673 | 163 18 | 45 24 | 14 49 | -0 0 | ND | 2.835 |
| 68 | 3 42 31.601 | 2224 | 38 55.44N | 125 | 43.56E | 38 | 31N | 125 | 55E | 599983 | 24674 | 163 23 | 45 33 | 14 48 | 0 2 | ND | 2.825 |
| 69 | 3 42 33.815 | 2215 | 38 46.82N | 125 | 46.85E | 38 | 22N | 125 | 58E | 599844 | 24674 | 163 23 | 45 42 | 14 47 | 0 3 | ND | 2.837 |
| 70 | 3 42 36.030 | 2215 | 38 38.19N | 125 | 50.13E | 38 | 14N | 126 | 1E | 599706 | 24674 | 163 26 | 45 51 | 14 46 | 0 5 | ND | 2.837 |
| 71 | 3 42 38.246 | 2216 | 38 29.55N | 125 | 53.40E | 38 | 5N | 126 | 4E | 599570 | 24675 | 163 29 | 45 59 | 14 45 | 0 7 | ND | 2.835 |
| 72 | 3 42 40.471 | 2224 | 38 20.88N | 125 | 56.67E | 37 | 56N | 126 | 8E | 599436 | 24675 | 163 31 | 46 8 | 14 44 | 0 8 | ND | 2.825 |
| 73 | 3 42 42.682 | 2211 | 38 12.26N | 125 | 59.90E | 37 | 48N | 126 | 11E | 599305 | 24675 | 163 34 | 46 17 | 14 42 | 0 9 | ND | 2.842 |
| 74 | 3 42 44.900 | 2219 | 38 3.61N | 126 | 3.12E | 37 | 39N | 126 | 14E | 599176 | 24676 | 163 37 | 46 25 | 14 42 | 0 11 | ND | 2.832 |
| 75 | 3 42 47.115 | 2215 | 37 54.97N | 126 | 6.53E | 37 | 31N | 126 | 17E | 599049 | 24676 | 163 39 | 46 34 | 14 41 | 0 12 | ND | 2.837 |
| 76 | 3 42 49.330 | 2215 | 37 46.33N | 126 | 9.52E | 37 | 22N | 126 | 21E | 598925 | 24676 | 163 42 | 46 43 | 14 39 | 0 13 | ND | 2.843 |
| 77 | 3 42 51.540 | 2210 | 37 37.70N | 126 | 12.69E | 37 | 13N | 126 | 24E | 598802 | 24677 | 163 45 | 46 51 | 14 38 | 0 14 | ND | 2.843 |
| 78 | 3 42 53.750 | 2210 | 37 29.07N | 126 | 15.85E | 37 | 5N | 126 | 27E | 598683 | 24677 | 163 47 | 47 0 | 14 38 | 0 16 | ND | 2.843 |
| 79 | 3 42 55.966 | 2215 | 37 20.42N | 126 | 19.00E | 36 | 56N | 126 | 30E | 598564 | 24677 | 163 50 | 47 9 | 14 37 | 0 16 | ND | 2.837 |
| 80 | 3 53 26.490 | 30525 | 4 21.84S | 136 | 28.78E | 4 | 49S | 136 | 35E | 663748 | 24528 | 168 29 | 78 20 | 14 14 | -0 16 | ND | 0.010 |
| 81 | 3 53 29.846 | 3355 | 4 35.10S | 136 | 31.49E | 5 | 25 | 136 | 38E | 664621 | 24526 | 168 29 | 78 18 | 14 15 | -0 17 | ND | 1.873 |
| 82 | 3 53 32.636 | 2630 | 4 46.27S | 136 | 33.74E | 5 | 13S | 136 | 40E | 665350 | 24525 | 168 28 | 78 16 | 14 16 | -0 18 | ND | 2.252 |
| 83 | 3 53 35.266 | 2730 | 4 56.72S | 136 | 35.87E | 5 | 24S | 136 | 43E | 666040 | 24523 | 168 28 | 78 14 | 14 17 | -0 18 | ND | 2.389 |
| 84 | 3 53 37.825 | 256A | 5 6.89S | 136 | 37.94E | 5 | 34S | 136 | 45E | 666715 | 24522 | 168 28 | 78 12 | 14 18 | -0 19 | ND | 2.454 |
| 85 | 3 53 40.360 | 2535 | 5 16.96S | 136 | 39.99E | 5 | 44S | 136 | 47E | 667387 | 24520 | 168 28 | 78 9 | 14 19 | -0 19 | ND | 2.479 |
| 86 | 3 53 42.871 | 2511 | 5 26.94S | 136 | 42.02E | 5 | 54S | 136 | 49E | 668055 | 24518 | 168 27 | 78 7 | 14 19 | -0 19 | ND | 2.502 |
| 87 | 3 53 45.381 | 2509 | 5 36.91S | 136 | 44.05E | 6 | 45 | 136 | 51E | 668725 | 24517 | 168 27 | 78 4 | 14 20 | -0 18 | ND | 2.504 |
| 88 | 3 53 47.891 | 2510 | 5 46.88S | 136 | 46.09E | 6 | 14S | 136 | 53E | 669398 | 24515 | 168 27 | 78 1 | 14 21 | -0 18 | ND | 2.503 |
| 89 | 3 53 50.396 | 2505 | 5 56.83S | 136 | 48.12E | 6 | 24S | 136 | 55E | 670073 | 24514 | 168 26 | 77 58 | 14 21 | -0 17 | ND | 2.508 |
| 90 | 3 53 52.900 | 2505 | 6 6.78S | 136 | 50.15E | 6 | 34S | 136 | 57E | 670750 | 24512 | 168 26 | 77 55 | 14 22 | -0 17 | ND | 2.508 |

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

ICS 89888-04

PASS 1160 FWD 5MAR65
FRAME EPHEMERIS . MISSION 1017-2 ID 43 LIST DATE 18MAY65 PAGE 43

| FRM | 2 TIME | | | DTIM | CAMERA NADIR | | | FORMAT CENTER | | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | |
|------|--------|----|--------|----------|--------------|--------|-------|---------------|-----|--------|----------|-------|---------|------|-------|------|-----|------|------|------|-------|
| | HR | MI | SEC | | LAT | DEG | MIN | LONG | DEG | MIN | | | | | | | | | LONG | FEET | F/S |
| 91 | 3 | 53 | 55.410 | 6 16.74S | 136 | 52.19E | 6 44S | 136 | 59E | 671432 | 24511 | 168 | 26 | 77 | 52 | 14 | 22 | -0 | 16 | ND | 2.503 |
| 92 | 3 | 53 | 57.921 | 6 26.71S | 136 | 54.23E | 6 54S | 137 | 1E | 672117 | 24509 | 168 | 25 | 77 | 49 | 14 | 23 | -0 | 16 | ND | 2.503 |
| 93 | 3 | 54 | 0.431 | 6 36.68S | 136 | 56.27E | 7 4S | 137 | 3E | 672804 | 24507 | 168 | 25 | 77 | 45 | 14 | 23 | -0 | 15 | ND | 2.503 |
| 94 | 3 | 54 | 2.940 | 6 46.64S | 136 | 58.32E | 7 14S | 137 | 5E | 673494 | 24506 | 168 | 25 | 77 | 42 | 14 | 23 | -0 | 14 | ND | 2.503 |
| 95 | 3 | 54 | 5.455 | 6 56.62S | 137 | 0.37E | 7 24S | 137 | 7E | 674187 | 24504 | 168 | 24 | 77 | 38 | 14 | 24 | -0 | 14 | ND | 2.498 |
| 96 | 3 | 54 | 7.972 | 7 6.61S | 137 | 2.42E | 7 34S | 137 | 9E | 674884 | 24503 | 168 | 24 | 77 | 34 | 14 | 24 | -0 | 13 | ND | 2.497 |
| 97 | 3 | 54 | 10.490 | 7 16.61S | 137 | 4.47E | 7 44S | 137 | 12E | 675585 | 24501 | 168 | 23 | 77 | 30 | 14 | 25 | -0 | 12 | ND | 2.494 |
| 98 | 3 | 54 | 13.007 | 7 26.60S | 137 | 6.53E | 7 54S | 137 | 14E | 676288 | 24499 | 168 | 23 | 77 | 26 | 14 | 25 | -0 | 12 | ND | 2.497 |
| 99 | 3 | 54 | 15.530 | 7 36.61S | 137 | 8.59E | 8 4S | 137 | 16E | 676994 | 24498 | 168 | 23 | 77 | 22 | 14 | 25 | -0 | 11 | ND | 2.489 |
| 0000 | 3 | 54 | 18.056 | 7 46.63S | 137 | 10.66E | 8 14S | 137 | 18E | 677705 | 24496 | 168 | 22 | 77 | 18 | 14 | 25 | -0 | 10 | ND | 2.488 |
| 0101 | 3 | 54 | 20.588 | 7 56.68S | 137 | 12.73E | 8 24S | 137 | 20E | 678420 | 24494 | 168 | 22 | 77 | 13 | 14 | 25 | -0 | 9 | ND | 2.482 |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1170 FWD 5MARB5

FRAME. EPHEMERIS . MISSION 1017-2

ID 43

LIST DATE 18MAY65

PAGE 44

| FRM | 2 TIME | HR | MI | SEC | DTM | DEG MIN | LAT | DEG MIN | LONG | DEG MIN | LAT | DEG MIN | LONG | ALTIUDE FEET | VELOC F/S | DEG MI | DEG SUN/ | PITCH DEG MIN | ROLL DEG MIN | YAW DEG MIN | SCAN RATE | | | |
|-----|--------|----|----|-----|-------|---------|--------|---------|--------|---------|-----|---------|------|--------------|-----------|--------|----------|---------------|--------------|-------------|-----------|----|---|-------|
| 1 | 5 | 7 | 1 | 029 | 0 | 59 | 4.65N | 90 | 31.37E | 58 | 41N | 90 | 57E | 640667 | 24577 | 151 | 40 | 24 | 12 | 14 | 16 | -0 | 2 | 1.995 |
| 2 | 5 | 7 | 4 | 180 | 3150 | 58 | 53.45N | 90 | 43.02E | 58 | 30N | 91 | 9E | 640890 | 24578 | 151 | 52 | 24 | 25 | 14 | 17 | -0 | 2 | 1.995 |
| 3 | 5 | 7 | 6 | 040 | 2660 | 58 | 43.97N | 90 | 52.76E | 58 | 21N | 91 | 18E | 639606 | 24579 | 152 | 1 | 24 | 36 | 14 | 18 | -0 | 1 | 2.362 |
| 4 | 5 | 7 | 9 | 340 | 2500 | 58 | 35.06N | 91 | 1.82E | 58 | 12N | 91 | 27E | 639152 | 24580 | 152 | 10 | 24 | 46 | 14 | 18 | -0 | 1 | 2.513 |
| 5 | 5 | 7 | 11 | 770 | 2430 | 58 | 26.38N | 91 | 10.55E | 58 | 3N | 91 | 36E | 638713 | 24581 | 152 | 18 | 24 | 55 | 14 | 19 | -0 | 1 | 2.586 |
| 6 | 5 | 7 | 14 | 159 | 2390 | 58 | 17.84N | 91 | 19.06E | 57 | 54N | 91 | 44E | 638284 | 24582 | 152 | 27 | 25 | 5 | 14 | 20 | -0 | 1 | 2.629 |
| 7 | 5 | 7 | 16 | 535 | 2376 | 58 | 9.33N | 91 | 27.45E | 57 | 46N | 91 | 52E | 637858 | 24583 | 152 | 35 | 25 | 15 | 14 | 21 | -0 | 1 | 2.644 |
| 8 | 5 | 7 | 18 | 900 | 2369 | 58 | 0.83N | 91 | 35.75E | 57 | 37N | 92 | 0E | 637435 | 24584 | 152 | 43 | 25 | 24 | 14 | 22 | -0 | 1 | 2.652 |
| 9 | 5 | 7 | 21 | 265 | 2360 | 57 | 52.36N | 91 | 43.94E | 57 | 29N | 92 | 8E | 637015 | 24585 | 152 | 51 | 28 | 33 | 14 | 23 | -0 | 0 | 2.662 |
| 10 | 5 | 7 | 23 | 609 | 2345 | 57 | 43.93N | 91 | 52.02E | 57 | 20N | 92 | 16E | 636601 | 24586 | 152 | 59 | 25 | 43 | 14 | 24 | -0 | 0 | 2.679 |
| 11 | 5 | 7 | 25 | 965 | 2355 | 57 | 35.46N | 92 | 0.06E | 57 | 12N | 92 | 24E | 636185 | 24587 | 153 | 6 | 25 | 52 | 14 | 25 | -0 | 0 | 2.668 |
| 12 | 5 | 7 | 28 | 310 | 2345 | 57 | 27.01N | 92 | 8.00E | 57 | 3N | 92 | 32E | 635774 | 24588 | 153 | 14 | 26 | 2 | 14 | 26 | -0 | 0 | 2.679 |
| 13 | 5 | 7 | 30 | 649 | 2340 | 57 | 18.57N | 92 | 15.86E | 56 | 55N | 92 | 40E | 635365 | 24589 | 153 | 22 | 26 | 11 | 14 | 28 | -0 | 0 | 2.685 |
| 14 | 5 | 7 | 32 | 984 | 2335 | 57 | 10.14N | 92 | 23.64E | 56 | 46N | 92 | 47E | 634959 | 24590 | 153 | 29 | 26 | 20 | 14 | 29 | -0 | 0 | 2.691 |
| 15 | 5 | 7 | 35 | 319 | 2335 | 57 | 1.69N | 92 | 31.36E | 56 | 38N | 92 | 55E | 634554 | 24591 | 153 | 37 | 26 | 30 | 14 | 30 | -0 | 0 | 2.691 |
| 16 | 5 | 7 | 37 | 654 | 2335 | 56 | 53.24N | 92 | 39.02E | 56 | 29N | 93 | 2E | 634151 | 24592 | 153 | 44 | 26 | 39 | 14 | 32 | -0 | 0 | 2.697 |
| 17 | 5 | 7 | 39 | 984 | 2330 | 56 | 44.80N | 92 | 46.59E | 56 | 21N | 93 | 10E | 633751 | 24593 | 153 | 51 | 26 | 48 | 14 | 34 | -0 | 0 | 2.697 |
| 18 | 5 | 7 | 42 | 314 | 2330 | 56 | 36.34N | 92 | 54.11E | 56 | 12N | 93 | 17E | 633352 | 24594 | 153 | 59 | 26 | 58 | 14 | 36 | -0 | 0 | 2.697 |
| 19 | 5 | 7 | 44 | 636 | 2321 | 56 | 27.91N | 93 | 1.54E | 56 | 4N | 93 | 25E | 632956 | 24595 | 154 | 6 | 27 | 7 | 14 | 37 | -0 | 0 | 2.707 |
| 20 | 5 | 7 | 46 | 959 | 2324 | 56 | 19.47N | 93 | 8.92E | 55 | 55N | 93 | 32E | 632562 | 24596 | 154 | 13 | 27 | 16 | 14 | 38 | -0 | 0 | 2.704 |
| 21 | 5 | 7 | 49 | 274 | 2315 | 56 | 11.04N | 93 | 16.21E | 55 | 47N | 93 | 39E | 632171 | 24597 | 154 | 20 | 27 | 26 | 14 | 38 | -0 | 0 | 2.714 |
| 22 | 5 | 7 | 51 | 595 | 2320 | 55 | 2.59N | 93 | 23.46E | 55 | 38N | 93 | 46E | 631781 | 24598 | 154 | 27 | 27 | 35 | 14 | 39 | -0 | 0 | 2.708 |
| 23 | 5 | 7 | 53 | 904 | 2310 | 55 | 54.17N | 93 | 30.63E | 55 | 30N | 93 | 53E | 631395 | 24599 | 154 | 34 | 27 | 44 | 14 | 39 | -0 | 0 | 2.708 |
| 24 | 5 | 7 | 56 | 225 | 2320 | 55 | 45.69N | 93 | 37.77E | 55 | 22N | 94 | 0E | 631008 | 24600 | 154 | 41 | 27 | 53 | 14 | 39 | -0 | 0 | 2.720 |
| 25 | 5 | 7 | 58 | 534 | 2310 | 55 | 37.25N | 93 | 44.82E | 55 | 13N | 94 | 7E | 630625 | 24601 | 154 | 47 | 28 | 3 | 14 | 39 | -0 | 0 | 2.726 |
| 26 | 5 | 8 | 0 | 840 | 2305 | 55 | 28.82N | 93 | 51.80E | 55 | 5N | 94 | 14E | 630245 | 24601 | 154 | 54 | 28 | 12 | 14 | 39 | -0 | 0 | 2.725 |
| 27 | 5 | 8 | 3 | 146 | 2306 | 55 | 20.38N | 93 | 58.74E | 54 | 56N | 94 | 20E | 629866 | 24602 | 155 | 1 | 28 | 21 | 14 | 38 | -0 | 0 | 2.726 |
| 28 | 5 | 8 | 5 | 450 | 2305 | 55 | 11.93N | 94 | 5.61E | 54 | 48N | 94 | 27E | 629488 | 24603 | 155 | 7 | 28 | 30 | 14 | 37 | -0 | 0 | 2.726 |
| 29 | 5 | 8 | 7 | 755 | 2304 | 55 | 3.48N | 94 | 12.44E | 54 | 39N | 94 | 34E | 629113 | 24604 | 155 | 14 | 28 | 39 | 14 | 37 | -0 | 0 | 2.727 |
| 30 | 5 | 8 | 10 | 060 | 2305 | 54 | 55.02N | 94 | 19.21E | 54 | 31N | 94 | 40E | 628748 | 24604 | 155 | 20 | 28 | 49 | 14 | 36 | -0 | 0 | 2.732 |
| 31 | 5 | 8 | 12 | 359 | 2300 | 54 | 46.56N | 94 | 25.92E | 54 | 23N | 94 | 47E | 628369 | 24606 | 155 | 27 | 28 | 58 | 14 | 35 | -0 | 0 | 2.732 |
| 32 | 5 | 8 | 14 | 654 | 2295 | 54 | 38.12N | 94 | 32.56E | 54 | 14N | 94 | 53E | 628000 | 24607 | 155 | 33 | 29 | 7 | 14 | 34 | -0 | 0 | 2.738 |
| 33 | 5 | 8 | 16 | 949 | 2295 | 54 | 29.67N | 94 | 39.16E | 54 | 6N | 95 | 0E | 627634 | 24608 | 155 | 39 | 29 | 16 | 14 | 33 | -0 | 0 | 2.738 |
| 34 | 5 | 8 | 19 | 244 | 2295 | 54 | 21.21N | 94 | 45.70E | 53 | 57N | 95 | 6E | 627269 | 24608 | 155 | 46 | 29 | 25 | 14 | 33 | -0 | 0 | 2.738 |
| 35 | 5 | 8 | 21 | 539 | 2295 | 54 | 12.75N | 94 | 52.20E | 53 | 49N | 95 | 12E | 626906 | 24609 | 155 | 52 | 29 | 34 | 14 | 33 | -0 | 0 | 2.738 |
| 36 | 5 | 8 | 23 | 830 | 2291 | 54 | 4.29N | 94 | 58.64E | 53 | 40N | 95 | 19E | 626545 | 24610 | 155 | 58 | 29 | 43 | 14 | 32 | -0 | 0 | 2.743 |
| 37 | 5 | 8 | 26 | 119 | 2289 | 53 | 55.84N | 95 | 5.02E | 53 | 32N | 95 | 25E | 626187 | 24611 | 156 | 4 | 29 | 53 | 14 | 32 | -0 | 0 | 2.745 |
| 38 | 5 | 8 | 28 | 404 | 2285 | 53 | 47.39N | 95 | 11.35E | 53 | 23N | 95 | 31E | 625830 | 24612 | 156 | 10 | 30 | 8 | 14 | 32 | -0 | 0 | 2.750 |
| 39 | 5 | 8 | 30 | 689 | 2285 | 53 | 38.93N | 95 | 17.63E | 53 | 15N | 95 | 37E | 625476 | 24613 | 156 | 16 | 30 | 11 | 14 | 32 | -0 | 0 | 2.750 |
| 40 | 5 | 11 | 16 | 250 | 65561 | 43 | 11.64N | 101 | 17.54E | 42 | 46N | 101 | 31E | 604931 | 24662 | 161 | 49 | 41 | 12 | 15 | 20 | -0 | 0 | 2.038 |
| 41 | 5 | 11 | 19 | 295 | 3044 | 42 | 59.89N | 101 | 22.80E | 42 | 34N | 101 | 36E | 604655 | 24662 | 161 | 53 | 41 | 24 | 15 | 19 | -0 | 0 | 2.064 |
| 42 | 5 | 11 | 21 | 024 | 2530 | 42 | 50.13N | 101 | 27.13E | 42 | 25N | 101 | 40E | 604428 | 24663 | 161 | 57 | 41 | 34 | 15 | 18 | -0 | 0 | 2.483 |
| 43 | 5 | 11 | 24 | 194 | 2570 | 42 | 40.98N | 101 | 31.17E | 42 | 16N | 101 | 44E | 604218 | 24663 | 162 | 1 | 41 | 43 | 15 | 17 | -0 | 0 | 2.651 |
| 44 | 5 | 11 | 26 | 489 | 2295 | 42 | 32.11N | 101 | 35.06E | 42 | 7N | 101 | 48E | 604018 | 24664 | 162 | 4 | 41 | 52 | 15 | 16 | -0 | 0 | 2.738 |
| 45 | 5 | 11 | 28 | 756 | 2266 | 42 | 23.36N | 101 | 38.88E | 41 | 58N | 101 | 52E | 603821 | 24664 | 162 | 7 | 42 | 1 | 15 | 14 | -0 | 0 | 2.773 |

TOP SECRET

HANDL. VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

MISSION 1017-2

LIST DATE 10MAY65

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PASS 117D FWD 5MAR65

FRAME EPHEMERIS

ID 43

| FRM | Z TIME | DTM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-----------|-------------|---------|-----------|------------|------------|---------|----------|-------|---------|--------|---------|---------|---------|-------|
| HR MI SEC | MILS | DEG MIN | DEG MIN | DEG MIN | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 46 | 5 11 31.005 | 2249 | 42 14.66N | 101 42.65E | 41 49N 101 | 56E | 603628 | 24665 | 162 11 | 42 10 | 15 13 | 0 7 | ND | 2.794 |
| 47 | 5 11 33.245 | 2241 | 42 6.00N | 101 46.39E | 41 41N 101 | 59E | 603439 | 24665 | 162 14 | 42 19 | 15 11 | 0 8 | ND | 2.804 |
| 48 | 5 11 35.479 | 2234 | 41 57.36N | 101 50.10E | 41 32N 102 | 3E | 603252 | 24666 | 162 17 | 42 28 | 15 10 | 0 9 | ND | 2.813 |
| 49 | 5 11 37.705 | 2226 | 41 48.75N | 101 53.78E | 41 24N 102 | 7E | 603067 | 24666 | 162 20 | 42 36 | 15 8 | 0 10 | ND | 2.823 |
| 50 | 5 11 39.936 | 2230 | 41 40.11N | 101 57.44E | 41 15N 102 | 10E | 602884 | 24667 | 162 24 | 42 45 | 15 6 | 0 11 | ND | 2.818 |
| 51 | 5 11 42.170 | 2234 | 41 31.46N | 102 1.09E | 41 6N 102 | 14E | 602704 | 24667 | 162 27 | 42 54 | 15 4 | 0 12 | ND | 2.813 |
| 52 | 5 11 44.395 | 2225 | 41 22.85N | 102 4.71E | 40 58N 102 | 17E | 602527 | 24667 | 162 30 | 43 3 | 15 2 | 0 14 | ND | 2.824 |
| 53 | 5 11 46.614 | 2220 | 41 14.25N | 102 8.30E | 40 49N 102 | 21E | 602351 | 24668 | 162 33 | 43 11 | 15 0 | 0 15 | ND | 2.830 |
| 54 | 5 11 48.834 | 2220 | 41 5.64N | 102 11.87E | 40 41N 102 | 24E | 602178 | 24668 | 162 36 | 43 20 | 14 58 | 0 16 | ND | 2.838 |
| 55 | 5 11 51.063 | 2228 | 40 57.00N | 102 15.44E | 40 32N 102 | 28E | 602006 | 24669 | 162 39 | 43 29 | 14 56 | 0 17 | ND | 2.828 |
| 56 | 5 11 53.284 | 2222 | 40 48.39N | 102 18.98E | 40 24N 102 | 31E | 601838 | 24669 | 162 42 | 43 38 | 14 54 | 0 18 | ND | 2.828 |
| 57 | 5 11 55.495 | 2211 | 40 39.81N | 102 22.49E | 40 15N 102 | 35E | 601672 | 24669 | 162 45 | 43 46 | 14 52 | 0 19 | ND | 2.842 |
| 58 | 5 11 57.720 | 2224 | 40 31.18N | 102 26.00E | 40 7N 102 | 38E | 601507 | 24670 | 162 48 | 43 55 | 14 49 | 0 20 | ND | 2.825 |
| 59 | 5 11 59.935 | 2215 | 40 22.58N | 102 29.48E | 39 58N 102 | 42E | 601345 | 24670 | 162 51 | 44 4 | 14 47 | 0 20 | ND | 2.837 |
| 60 | 5 12 2.150 | 2216 | 40 13.98N | 102 32.94E | 39 50N 102 | 45E | 601184 | 24671 | 162 54 | 44 13 | 14 45 | 0 21 | ND | 2.835 |
| 61 | 5 12 4.365 | 2215 | 40 5.37N | 102 36.38E | 39 41N 102 | 49E | 601027 | 24671 | 162 57 | 44 21 | 14 42 | 0 22 | ND | 2.837 |
| 62 | 5 12 6.579 | 2214 | 39 56.77N | 102 39.81E | 39 33N 102 | 52E | 600871 | 24671 | 163 0 | 44 30 | 14 40 | 0 22 | ND | 2.838 |
| 63 | 5 12 8.795 | 2215 | 39 48.16N | 102 43.22E | 39 24N 102 | 55E | 600717 | 24672 | 163 3 | 44 39 | 14 38 | 0 23 | ND | 2.837 |
| 64 | 5 12 11.010 | 2215 | 39 39.55N | 102 46.61E | 39 16N 102 | 59E | 600566 | 24672 | 163 6 | 44 47 | 14 35 | 0 24 | ND | 2.837 |
| 65 | 5 12 13.220 | 2210 | 39 30.95N | 102 49.94E | 39 7N 103 | 2E | 600417 | 24673 | 163 9 | 44 56 | 14 33 | 0 25 | ND | 2.843 |
| 66 | 5 12 15.430 | 2210 | 39 22.36N | 102 53.34E | 38 58N 103 | 5E | 600271 | 24673 | 163 11 | 45 5 | 14 30 | 0 26 | ND | 2.843 |
| 67 | 5 12 17.649 | 2220 | 39 13.72N | 102 56.69E | 38 50N 103 | 9E | 600126 | 24673 | 163 14 | 45 13 | 14 28 | 0 26 | ND | 2.830 |
| 68 | 5 12 19.859 | 2210 | 39 5.12N | 103 0.01E | 38 41N 103 | 12E | 599984 | 24674 | 163 17 | 45 22 | 14 26 | 0 27 | ND | 2.843 |
| 69 | 5 12 22.074 | 2215 | 38 56.50N | 103 3.33E | 38 33N 103 | 15E | 599843 | 24674 | 163 20 | 45 31 | 14 23 | 0 28 | ND | 2.837 |
| 70 | 5 12 24.284 | 2210 | 38 47.89N | 103 6.62E | 38 24N 103 | 18E | 599706 | 24674 | 163 23 | 45 39 | 14 22 | 0 29 | ND | 2.843 |
| 71 | 5 12 26.499 | 2215 | 38 39.26N | 103 9.90E | 38 16N 103 | 22E | 599570 | 24675 | 163 25 | 45 48 | 14 19 | 0 29 | ND | 2.837 |
| 72 | 5 12 28.714 | 2225 | 2 8.32N | 112 30.30E | 1 43N 112 | 37E | 640835 | 24581 | 168 31 | 77 39 | 14 2 | -0 17 | ND | 0.011 |
| 73 | 5 21 42.454 | 3230 | 1 55.46N | 112 32.89E | 1 30N 112 | 39E | 641529 | 24580 | 168 31 | 77 44 | 14 3 | -0 16 | ND | 1.945 |
| 74 | 5 21 45.135 | 2680 | 1 44.78N | 112 35.05E | 1 19N 112 | 41E | 642108 | 24578 | 168 31 | 77 48 | 14 4 | -0 15 | ND | 2.344 |
| 75 | 5 21 47.676 | 2541 | 1 34.66N | 112 37.09E | 1 9N 112 | 43E | 642660 | 24577 | 168 31 | 77 52 | 14 5 | -0 14 | ND | 2.473 |
| 76 | 5 21 50.110 | 2435 | 1 24.96N | 112 39.05E | 0 59N 112 | 45E | 643193 | 24576 | 168 32 | 77 55 | 14 6 | -0 14 | ND | 2.580 |
| 77 | 5 21 52.535 | 2425 | 1 15.30N | 112 40.99E | 0 49N 112 | 47E | 643725 | 24574 | 168 32 | 77 59 | 14 7 | -0 13 | ND | 2.591 |
| 78 | 5 21 54.940 | 2405 | 1 5.72N | 112 42.93E | 0 40N 112 | 49E | 644258 | 24573 | 168 32 | 78 2 | 14 8 | -0 12 | ND | 2.613 |
| 79 | 5 21 57.345 | 2444 | 0 56.14N | 112 44.86E | 0 30N 112 | 51E | 644792 | 24572 | 168 32 | 78 5 | 14 9 | -0 12 | ND | 2.614 |
| 80 | 5 21 59.734 | 2390 | 0 46.63N | 112 46.78E | 0 21N 112 | 53E | 645325 | 24571 | 168 32 | 78 8 | 14 9 | -0 12 | ND | 2.629 |
| 81 | 5 22 2.130 | 2395 | 0 37.09N | 112 48.70E | 0 11N 112 | 55E | 645862 | 24570 | 168 32 | 78 11 | 14 10 | -0 12 | ND | 2.623 |
| 82 | 5 22 4.515 | 2385 | 0 27.60N | 112 50.61E | 0 2N 112 | 57E | 646400 | 24568 | 168 32 | 78 14 | 14 10 | -0 12 | ND | 2.634 |
| 83 | 5 22 6.909 | 2395 | 0 18.06N | 112 52.53E | 0 8S 112 | 59E | 646943 | 24567 | 168 32 | 78 16 | 14 11 | -0 11 | ND | 2.623 |
| 84 | 5 22 9.300 | 2390 | 0 8.55N | 112 54.45E | 0 18S 113 | 1E | 647488 | 24566 | 168 32 | 78 19 | 14 11 | -0 11 | ND | 2.629 |
| 85 | 5 22 11.689 | 2390 | 0 1.06S | 112 56.37E | 0 27S 113 | 3E | 648035 | 24565 | 168 32 | 78 21 | 14 12 | -0 11 | ND | 2.629 |
| 86 | 5 22 14.079 | 2390 | 0 10.49S | 112 58.29E | 0 37S 113 | 5E | 648585 | 24563 | 168 32 | 78 23 | 14 12 | -0 11 | ND | 2.629 |
| 87 | 5 22 16.475 | 2395 | 0 20.03S | 113 0.21E | 0 46S 113 | 7E | 649139 | 24562 | 168 32 | 78 26 | 14 13 | -0 12 | ND | 2.623 |
| 88 | 5 22 18.869 | 2395 | 0 29.56S | 113 2.13E | 0 56S 113 | 9E | 649695 | 24561 | 168 32 | 78 28 | 14 13 | -0 12 | ND | 2.623 |
| 89 | 5 22 21.270 | 2400 | 0 39.12S | 113 4.06E | 1 5S 113 | 11E | 650256 | 24559 | 168 32 | 78 29 | 14 13 | -0 12 | ND | 2.618 |
| 90 | 5 22 23.681 | 2411 | 0 48.72S | 113 5.99E | 1 15S 113 | 13E | 650821 | 24558 | 168 32 | 78 31 | 14 14 | -0 12 | ND | 2.606 |

TOP SECRET

HANDLE VIA

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1170 FWD SMAR65

FRAME EPHEMERIS MISSION 1817-2

ID 43

LIST DATE 18MAY65 PAGE 46

| FRM | 2 TIME | HR MI SEC | DTIM | MILS | DEG MIN | LAT | DEG | LONG | DEG MIN | LAT | DEG | LONG | ALTITUDE | VELOC | DEG | MI | DEG | SUN/ | PITCH | ROLL | YAW | SCAR |
|-----|--------|-----------|-------|------|---------|-----|--------|------|---------|-----|-----|--------|----------|-------|-----|----|-----|------|-------|------|-----|-------|
| | | | | | | | | | | | | | FEET | F/S | MI | MI | MI | MI | MIN | MIN | MIN | RATE |
| 91 | 5 22 | 26.080 | 2400 | 0 | 58.275 | 113 | 7.91E | 1 | 255 | 113 | 15E | 651387 | 24557 | 168 | 32 | 78 | 32 | 14 | 14 | -0 | 12 | 2.618 |
| 92 | 5 22 | 28.480 | 2400 | 1 | 7.825 | 113 | 9.84E | 1 | 345 | 113 | 16E | 651956 | 24555 | 168 | 32 | 78 | 34 | 14 | 14 | -0 | 12 | 2.618 |
| 93 | 5 22 | 30.869 | 2389 | 1 | 17.335 | 113 | 11.76E | 1 | 445 | 113 | 18E | 652524 | 24554 | 168 | 32 | 78 | 35 | 14 | 14 | -0 | 12 | 2.630 |
| 94 | 5 22 | 33.270 | 2400 | 1 | 26.885 | 113 | 13.68E | 1 | 535 | 113 | 20E | 653098 | 24553 | 168 | 32 | 78 | 36 | 14 | 14 | -0 | 12 | 2.618 |
| 95 | 5 22 | 35.675 | 2405 | 1 | 36.455 | 113 | 15.61E | 2 | 35 | 113 | 22E | 653676 | 24551 | 168 | 32 | 78 | 37 | 14 | 15 | -0 | 12 | 2.613 |
| 96 | 5 22 | 38.079 | 2405 | 1 | 46.025 | 113 | 17.54E | 2 | 135 | 113 | 24E | 654256 | 24550 | 168 | 32 | 78 | 38 | 14 | 15 | -0 | 12 | 2.613 |
| 97 | 5 22 | 40.494 | 2415 | 1 | 55.635 | 113 | 19.48E | 2 | 225 | 113 | 26E | 654842 | 24549 | 168 | 31 | 78 | 39 | 14 | 16 | -0 | 12 | 2.602 |
| 98 | 5 22 | 42.904 | 2410 | 2 | 5.225 | 113 | 21.42E | 2 | 325 | 113 | 28E | 655429 | 24547 | 168 | 31 | 78 | 39 | 14 | 16 | -0 | 11 | 2.607 |
| 99 | 5 22 | 45.319 | 2415 | 2 | 14.835 | 113 | 23.36E | 2 | 415 | 113 | 30E | 656028 | 24546 | 168 | 31 | 78 | 40 | 14 | 17 | -0 | 11 | 2.602 |
| 000 | 5 22 | 47.734 | 2415 | 2 | 24.435 | 113 | 25.30E | 2 | 515 | 113 | 32E | 656614 | 24545 | 168 | 31 | 78 | 40 | 14 | 18 | -0 | 11 | 2.602 |
| 001 | 5 22 | 50.154 | 2420 | 2 | 34.065 | 113 | 27.24E | 3 | 15 | 113 | 34E | 657211 | 24543 | 168 | 31 | 78 | 40 | 14 | 18 | -0 | 12 | 2.596 |
| 002 | 5 22 | 52.574 | 2420 | 2 | 43.695 | 113 | 29.19E | 3 | 105 | 113 | 36E | 657812 | 24542 | 168 | 31 | 78 | 40 | 14 | 18 | -0 | 12 | 2.596 |
| 003 | 5 22 | 54.994 | 2420 | 2 | 53.315 | 113 | 31.13E | 3 | 205 | 113 | 38E | 658415 | 24541 | 168 | 31 | 78 | 40 | 14 | 19 | -0 | 12 | 2.596 |
| 004 | 5 22 | 57.414 | 2420 | 3 | 2.945 | 113 | 33.08E | 3 | 305 | 113 | 40E | 659020 | 24539 | 168 | 31 | 78 | 40 | 14 | 20 | -0 | 12 | 2.596 |
| 005 | 5 22 | 59.841 | 2426 | 3 | 12.595 | 113 | 35.03E | 3 | 395 | 113 | 42E | 659630 | 24538 | 168 | 30 | 78 | 39 | 14 | 21 | -0 | 12 | 2.590 |
| 006 | 5 23 | 2.270 | 2429 | 3 | 22.255 | 113 | 36.98E | 3 | 495 | 113 | 44E | 660243 | 24536 | 168 | 30 | 78 | 39 | 14 | 22 | -0 | 12 | 2.587 |
| 007 | 5 23 | 4.699 | 2430 | 3 | 31.915 | 113 | 38.94E | 3 | 595 | 113 | 46E | 660859 | 24535 | 168 | 30 | 78 | 38 | 14 | 23 | -0 | 12 | 2.586 |
| 008 | 5 23 | 7.129 | 2430 | 3 | 41.575 | 113 | 40.89E | 4 | 95 | 113 | 48E | 661478 | 24533 | 168 | 30 | 78 | 37 | 14 | 23 | -0 | 12 | 2.586 |
| 009 | 5 23 | 9.563 | 2435 | 3 | 51.255 | 113 | 42.86E | 4 | 185 | 113 | 50E | 662101 | 24532 | 168 | 30 | 78 | 36 | 14 | 25 | -0 | 12 | 2.580 |
| 010 | 5 23 | 11.998 | 2435 | 4 | 0.925 | 113 | 44.82E | 4 | 285 | 113 | 52E | 662726 | 24531 | 168 | 29 | 78 | 35 | 14 | 25 | -0 | 12 | 2.580 |
| 011 | 5 23 | 14.438 | 2440 | 4 | 10.635 | 113 | 46.78E | 4 | 385 | 113 | 54E | 663356 | 24529 | 168 | 29 | 78 | 34 | 14 | 26 | -0 | 12 | 2.578 |
| 012 | 5 23 | 16.884 | 2440 | 4 | 20.355 | 113 | 48.76E | 4 | 485 | 113 | 56E | 663989 | 24528 | 168 | 29 | 78 | 32 | 14 | 27 | -0 | 12 | 2.570 |
| 013 | 5 23 | 19.323 | 2440 | 4 | 30.045 | 113 | 50.73E | 4 | 575 | 113 | 58E | 664624 | 24526 | 168 | 29 | 78 | 30 | 14 | 28 | -0 | 13 | 2.575 |
| 014 | 5 23 | 21.769 | 2445 | 4 | 39.765 | 113 | 52.70E | 5 | 75 | 114 | 0E | 665263 | 24525 | 168 | 29 | 78 | 29 | 14 | 29 | -0 | 13 | 2.570 |
| 015 | 5 23 | 24.216 | 34600 | 6 | 57.185 | 114 | 20.76E | 7 | 265 | 114 | 27E | 674586 | 24503 | 168 | 24 | 77 | 50 | 14 | 46 | -0 | 38 | 0.182 |
| 016 | 5 23 | 26.663 | 3285 | 7 | 10.225 | 114 | 23.44E | 7 | 395 | 114 | 30E | 675499 | 24501 | 168 | 24 | 77 | 45 | 14 | 49 | -0 | 28 | 1.913 |
| 017 | 5 24 | 2.435 | 2781 | 7 | 21.265 | 114 | 25.72E | 7 | 505 | 114 | 33E | 676275 | 24499 | 168 | 23 | 77 | 40 | 14 | 51 | -0 | 27 | 2.259 |
| 018 | 5 24 | 4.868 | 2634 | 7 | 31.715 | 114 | 27.87E | 8 | 15 | 114 | 35E | 677013 | 24498 | 168 | 23 | 77 | 36 | 14 | 53 | -0 | 26 | 2.385 |
| 019 | 5 24 | 7.304 | 2580 | 7 | 41.955 | 114 | 29.98E | 8 | 115 | 114 | 37E | 677738 | 24496 | 168 | 22 | 77 | 31 | 14 | 54 | -0 | 24 | 2.435 |
| 020 | 5 24 | 9.748 | 2550 | 7 | 52.065 | 114 | 32.07E | 8 | 215 | 114 | 39E | 678458 | 24494 | 168 | 22 | 77 | 27 | 14 | 55 | -0 | 23 | 2.464 |
| 021 | 5 24 | 12.198 | 2535 | 8 | 2.125 | 114 | 34.14E | 8 | 315 | 114 | 41E | 679177 | 24493 | 168 | 21 | 77 | 22 | 14 | 54 | -0 | 22 | 2.479 |
| 022 | 5 24 | 14.629 | 2535 | 8 | 12.175 | 114 | 36.22E | 8 | 415 | 114 | 43E | 679898 | 24491 | 168 | 21 | 77 | 18 | 14 | 53 | -0 | 21 | 2.479 |
| 023 | 5 24 | 17.069 | 2526 | 8 | 22.195 | 114 | 38.30E | 8 | 515 | 114 | 45E | 680619 | 24489 | 168 | 20 | 77 | 13 | 14 | 52 | -0 | 20 | 2.487 |
| 024 | 5 24 | 19.513 | 2529 | 8 | 32.225 | 114 | 40.38E | 9 | 15 | 114 | 48E | 681344 | 24488 | 168 | 20 | 77 | 8 | 14 | 50 | -0 | 20 | 2.484 |
| 025 | 5 24 | 21.954 | 2530 | 8 | 42.255 | 114 | 42.46E | 9 | 115 | 114 | 50E | 682073 | 24486 | 168 | 19 | 77 | 3 | 14 | 48 | -0 | 19 | 2.483 |
| 026 | 5 24 | 24.399 | 2535 | 8 | 52.305 | 114 | 44.55E | 9 | 215 | 114 | 52E | 682805 | 24484 | 168 | 18 | 76 | 58 | 14 | 47 | -0 | 19 | 2.479 |
| 027 | 5 24 | 26.844 | 2530 | 9 | 2.335 | 114 | 46.64E | 9 | 315 | 114 | 54E | 683537 | 24482 | 168 | 18 | 76 | 53 | 14 | 45 | -0 | 20 | 2.483 |
| 028 | 5 24 | 29.288 | 2530 | 9 | 12.365 | 114 | 48.72E | 9 | 415 | 114 | 56E | 684273 | 24481 | 168 | 18 | 76 | 48 | 14 | 44 | -0 | 19 | 2.483 |
| 029 | 5 24 | 31.733 | 2535 | 9 | 22.415 | 114 | 50.82E | 9 | 515 | 114 | 58E | 685014 | 24479 | 168 | 17 | 76 | 43 | 14 | 43 | -0 | 21 | 2.479 |
| 030 | 5 24 | 34.178 | 2535 | 9 | 32.465 | 114 | 52.92E | 10 | 15 | 115 | 0E | 685756 | 24477 | 168 | 17 | 76 | 37 | 14 | 42 | -0 | 22 | 2.479 |
| 031 | 5 24 | 36.623 | 2541 | 9 | 42.535 | 114 | 55.02E | 10 | 115 | 115 | 2E | 686503 | 24476 | 168 | 16 | 76 | 31 | 14 | 41 | -0 | 22 | 2.473 |
| 032 | 5 24 | 39.068 | 2545 | 9 | 52.615 | 114 | 57.14E | 10 | 215 | 115 | 4E | 687255 | 24474 | 168 | 16 | 76 | 26 | 14 | 41 | -0 | 21 | 2.469 |
| 033 | 5 24 | 41.513 | 2509 | 10 | 2.715 | 114 | 59.25E | 10 | 325 | 115 | 6E | 688009 | 24472 | 168 | 15 | 76 | 20 | 14 | 41 | -0 | 21 | 2.465 |
| 034 | 5 24 | 43.958 | 2550 | 10 | 12.015 | 115 | 1.37E | 10 | 425 | 115 | 9E | 688767 | 24470 | 168 | 15 | 76 | 14 | 14 | 41 | -0 | 20 | 2.464 |
| 035 | 5 24 | 46.403 | 2555 | 10 | 22.935 | 115 | 3.50E | 10 | 525 | 115 | 11E | 689529 | 24469 | 168 | 14 | 76 | 8 | 14 | 42 | -0 | 19 | 2.459 |

TOP SECRET.

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

| FRM | 2 TIME | DTIM | CAMERA NADIR | | | FORMAT CENTER | | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | | | | | | |
|-----|--------|------|--------------|------|-----|---------------|------|-------|----------|-------|---------|------|--------|-------|-----|------|----|---|----|----|----|----|----|-------|
| HR | MI | SEC | MILS | DEG | MIN | DEG | LONG | DEG | MIN | DEG | MIN | DEG | MI | DEG | MIN | RATT | | | | | | | | |
| 136 | 5 | 24 | 58.813 | 2555 | 10 | 33.055 | 115 | 5.63E | 11 | 25 | 115 | 13E | 698293 | 24467 | 168 | 13 | 76 | 2 | 14 | 42 | -0 | 17 | ND | 2.459 |

PASS 117D FWD SMAR65
FRAME EPHEMERIS MISSION 1017-2 ID 43 LIST DATE 10MAY65 PAGE 47

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 118D FWD 5MAR65

FRAME EPHEMERIS MISSION 1817-2

ID 43

LIST DATE 18MAY65

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| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | |
|-------|-------------|------|-----------|-----------|--------|--------|----------|-------|---------|--------|-------|------|-----|------|-------|
| HR MI | SEC | MILS | LAT | LONG | MIN | DEG | FEET | F/S | DEG MI | DEG MI | MIN | MIN | MIN | RATE | |
| 1 | 6 37 22.604 | 0 | 57 14.00N | 69 40.20E | 56 | 49N | 70 | 5E | 634581 | 24591 | 153 | 25 | 26 | 16 | 2.827 |
| 2 | 6 37 25.793 | 3100 | 57 2.80N | 69 50.47E | 56 | 38N | 70 | 15E | 634846 | 24592 | 153 | 35 | 26 | 28 | 2.827 |
| 3 | 6 37 28.318 | 2615 | 56 53.33N | 69 59.05E | 56 | 28N | 70 | 24E | 633597 | 24593 | 153 | 44 | 26 | 39 | 2.483 |
| 4 | 6 37 30.773 | 2455 | 56 44.44N | 70 7.04E | 56 | 19N | 70 | 31E | 633177 | 24594 | 153 | 51 | 26 | 49 | 2.559 |
| 5 | 6 37 33.141 | 2367 | 56 35.85N | 70 14.67E | 56 | 11N | 70 | 39E | 632774 | 24595 | 153 | 59 | 26 | 58 | 2.654 |
| 6 | 6 37 35.509 | 2368 | 56 27.25N | 70 22.25E | 56 | 2N | 70 | 46E | 632374 | 24596 | 154 | 6 | 27 | 7 | 2.653 |
| 7 | 6 37 37.839 | 2350 | 56 18.78N | 70 29.64E | 55 | 54N | 70 | 54E | 631981 | 24597 | 154 | 13 | 27 | 17 | 2.697 |
| 8 | 6 37 40.163 | 2325 | 56 10.32N | 70 36.96E | 55 | 45N | 71 | 1E | 631591 | 24598 | 154 | 20 | 27 | 26 | 2.782 |
| 9 | 6 37 42.479 | 2316 | 56 1.88N | 70 44.20E | 55 | 37N | 71 | 8E | 631204 | 24599 | 154 | 27 | 27 | 35 | 2.713 |
| 10 | 6 37 44.788 | 2309 | 55 53.46N | 70 51.36E | 55 | 28N | 71 | 15E | 630820 | 24600 | 154 | 34 | 27 | 44 | 2.721 |
| 11 | 6 37 47.094 | 2305 | 55 45.04N | 70 58.45E | 55 | 20N | 71 | 22E | 630439 | 24601 | 154 | 41 | 27 | 54 | 2.726 |
| 12 | 6 37 49.389 | 2295 | 55 36.65N | 71 5.45E | 55 | 12N | 71 | 29E | 630060 | 24602 | 154 | 48 | 28 | 3 | 2.738 |
| 13 | 6 37 51.688 | 2300 | 55 28.24N | 71 12.42E | 55 | 3N | 71 | 36E | 629683 | 24603 | 154 | 54 | 28 | 12 | 2.732 |
| 14 | 6 37 53.979 | 2290 | 55 19.85N | 71 19.30E | 54 | 55N | 71 | 43E | 629309 | 24603 | 155 | 1 | 28 | 21 | 2.744 |
| 15 | 6 37 56.269 | 2290 | 55 11.46N | 71 26.13E | 54 | 46N | 71 | 49E | 628937 | 24604 | 155 | 8 | 28 | 30 | 2.744 |
| 16 | 6 37 58.559 | 2290 | 55 3.06N | 71 32.91E | 54 | 38N | 71 | 56E | 628566 | 24605 | 155 | 14 | 28 | 39 | 2.744 |
| 17 | 6 38 0.849 | 2290 | 54 54.65N | 71 39.64E | 54 | 30N | 72 | 3E | 628198 | 24606 | 155 | 20 | 28 | 49 | 2.744 |
| 18 | 6 38 3.130 | 2281 | 54 46.27N | 71 46.29E | 54 | 21N | 72 | 9E | 627832 | 24607 | 155 | 27 | 28 | 58 | 2.755 |
| 19 | 6 38 5.413 | 2284 | 54 37.87N | 71 52.90E | 54 | 13N | 72 | 16E | 627468 | 24608 | 155 | 33 | 29 | 7 | 2.751 |
| 20 | 6 38 7.698 | 2285 | 54 29.45N | 71 59.47E | 54 | 4N | 72 | 22E | 627105 | 24609 | 155 | 39 | 29 | 16 | 2.750 |
| 21 | 6 38 9.975 | 2276 | 54 21.06N | 72 5.96E | 53 | 56N | 72 | 28E | 626746 | 24609 | 155 | 46 | 29 | 25 | 2.751 |
| 22 | 6 38 12.254 | 2275 | 54 12.66N | 72 12.41E | 53 | 48N | 72 | 35E | 626387 | 24610 | 155 | 52 | 29 | 34 | 2.757 |
| 23 | 6 38 14.528 | 2275 | 54 4.26N | 72 18.80E | 53 | 39N | 72 | 41E | 626032 | 24611 | 155 | 58 | 29 | 43 | 2.762 |
| 24 | 6 38 16.799 | 2270 | 53 55.87N | 72 25.04E | 53 | 31N | 72 | 47E | 625678 | 24612 | 156 | 4 | 29 | 52 | 2.768 |
| 25 | 6 38 19.073 | 2275 | 53 47.46N | 72 31.44E | 53 | 22N | 72 | 53E | 625326 | 24613 | 156 | 10 | 30 | 1 | 2.762 |
| 26 | 6 38 21.339 | 2265 | 53 39.08N | 72 37.67E | 53 | 14N | 72 | 59E | 624977 | 24614 | 156 | 16 | 30 | 10 | 2.774 |
| 27 | 6 38 23.608 | 2270 | 53 30.67N | 72 43.86E | 53 | 6N | 73 | 5E | 624629 | 24614 | 156 | 22 | 30 | 19 | 2.768 |
| 28 | 6 38 25.873 | 2265 | 53 22.28N | 72 50.00E | 52 | 57N | 73 | 11E | 624283 | 24615 | 156 | 28 | 30 | 28 | 2.774 |
| 29 | 6 38 28.139 | 2265 | 53 13.87N | 72 56.10E | 52 | 49N | 73 | 17E | 623940 | 24616 | 156 | 33 | 30 | 37 | 2.774 |
| 30 | 6 38 30.398 | 2260 | 53 5.48N | 73 2.14E | 52 | 41N | 73 | 23E | 623599 | 24617 | 156 | 39 | 30 | 46 | 2.780 |
| 31 | 6 38 32.658 | 2260 | 52 57.09N | 73 8.14E | 52 | 32N | 73 | 29E | 623260 | 24618 | 156 | 45 | 30 | 55 | 2.780 |
| 32 | 6 38 34.918 | 2260 | 52 48.68N | 73 14.09E | 52 | 24N | 73 | 35E | 622921 | 24619 | 156 | 51 | 31 | 4 | 2.780 |
| 33 | 6 38 37.179 | 2260 | 52 40.27N | 73 20.01E | 52 | 15N | 73 | 40E | 622586 | 24619 | 156 | 56 | 31 | 13 | 2.780 |
| 34 | 6 38 39.438 | 2260 | 52 31.86N | 73 25.88E | 52 | 7N | 73 | 46E | 622252 | 24620 | 157 | 2 | 31 | 22 | 2.780 |
| 35 | 6 38 41.693 | 2255 | 52 23.45N | 73 31.70E | 51 | 59N | 73 | 52E | 621920 | 24621 | 157 | 7 | 31 | 31 | 2.786 |
| 36 | 6 38 43.948 | 2255 | 52 15.04N | 73 37.48E | 51 | 50N | 73 | 57E | 621590 | 24622 | 157 | 13 | 31 | 40 | 2.786 |
| 37 | 6 38 46.198 | 2250 | 52 6.65N | 73 43.20E | 51 | 42N | 74 | 3E | 621267 | 24623 | 157 | 18 | 31 | 49 | 2.793 |
| 38 | 6 38 48.453 | 2255 | 51 58.22N | 73 48.98E | 51 | 33N | 74 | 9E | 620937 | 24623 | 157 | 23 | 31 | 58 | 2.786 |
| 39 | 6 38 50.703 | 2250 | 51 49.82N | 73 54.55E | 51 | 25N | 74 | 14E | 620614 | 24624 | 157 | 29 | 32 | 7 | 2.793 |
| 40 | 6 38 52.953 | 2250 | 51 41.40N | 74 0.16E | 51 | 16N | 74 | 19E | 620293 | 24625 | 157 | 34 | 32 | 16 | 2.793 |
| 41 | 6 38 55.203 | 2250 | 51 32.98N | 74 6.73E | 51 | 8N | 74 | 25E | 619972 | 24625 | 157 | 39 | 32 | 25 | 2.793 |
| 42 | 6 38 57.448 | 2245 | 51 24.57N | 74 11.26E | 51 | 0N | 74 | 30E | 619655 | 24626 | 157 | 45 | 32 | 34 | 2.799 |
| 43 | 6 38 59.698 | 2250 | 51 16.14N | 74 16.75E | 50 | 51N | 74 | 36E | 619339 | 24627 | 157 | 50 | 32 | 43 | 2.793 |
| 44 | 6 39 1.938 | 2240 | 51 7.74N | 74 22.19E | 50 | 43N | 74 | 41E | 619026 | 24628 | 157 | 55 | 32 | 52 | 2.805 |
| 45 | 6 39 4.179 | 2240 | 50 59.33N | 74 27.59E | 50 | 34N | 74 | 46E | 618714 | 24628 | 158 | 0 | 33 | 1 | 2.805 |

TOP SECRET

HANDLE VIA

HANDLE VIA
Talent-Keyhole
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1180 FWD SMAR65

FRAME EPHMERIS MISSION 1817-2

ID 43

LIST DATE 18MAY65 PAGE 49

| FRM | Z TIME | DTIM | LAT | DEG | MIN | LONG | DEG | MIN | LONG | ALTITUDE | VELOC | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN |
|-----|--------|------|--------|------|-----|--------|-----|--------|------|----------|-------|-----|--------|-------|-----|-------|------|-----|-------|
| HR | MI | SEC | MIN | SEC | SEC | MIN | SEC | SEC | SEC | FEET | F/S | MI | SEC | MIN | SEC | MIN | MIN | MIN | RATE |
| 46 | 6 | 39 | 6.418 | 2240 | 50 | 50.92N | 74 | 32.96E | 50 | 26N | 74 | 51E | 618405 | 24629 | 158 | 5 | 33 | 10 | 2.805 |
| 47 | 6 | 39 | 8.658 | 2240 | 50 | 42.51N | 74 | 38.29E | 50 | 18N | 74 | 56E | 618098 | 24630 | 158 | 10 | 33 | 19 | 2.805 |
| 48 | 6 | 39 | 10.894 | 2235 | 50 | 34.10N | 74 | 43.57E | 50 | 9N | 75 | 2E | 617793 | 24631 | 158 | 15 | 33 | 28 | 2.811 |
| 49 | 6 | 39 | 13.134 | 2240 | 50 | 25.67N | 74 | 48.83E | 50 | 1N | 75 | 7E | 617489 | 24631 | 158 | 20 | 33 | 37 | 2.805 |
| 50 | 6 | 39 | 15.373 | 2240 | 50 | 17.24N | 74 | 54.06E | 49 | 52N | 75 | 12E | 617187 | 24632 | 158 | 25 | 33 | 46 | 2.805 |
| 51 | 6 | 39 | 17.614 | 2241 | 50 | 8.88N | 74 | 59.25E | 49 | 44N | 75 | 17E | 616588 | 24633 | 158 | 29 | 33 | 55 | 2.804 |
| 52 | 6 | 39 | 19.854 | 2239 | 50 | 0.36N | 75 | 4.41E | 49 | 35N | 75 | 22E | 616588 | 24634 | 158 | 34 | 34 | 4 | 2.806 |
| 53 | 6 | 39 | 22.089 | 2235 | 49 | 51.93N | 75 | 9.53E | 49 | 27N | 75 | 27E | 616292 | 24634 | 158 | 39 | 34 | 13 | 2.811 |
| 54 | 6 | 39 | 24.319 | 2231 | 49 | 43.52N | 75 | 14.60E | 49 | 19N | 75 | 32E | 615999 | 24635 | 158 | 44 | 34 | 21 | 2.816 |
| 55 | 6 | 39 | 26.559 | 2239 | 49 | 35.06N | 75 | 19.66E | 49 | 10N | 75 | 37E | 615706 | 24636 | 158 | 49 | 34 | 30 | 2.806 |
| 56 | 6 | 39 | 28.793 | 2235 | 49 | 26.62N | 75 | 24.67E | 49 | 2N | 75 | 42E | 615416 | 24636 | 158 | 53 | 34 | 39 | 2.811 |
| 57 | 6 | 39 | 31.027 | 2234 | 49 | 18.17N | 75 | 29.66E | 48 | 53N | 75 | 46E | 615128 | 24637 | 158 | 58 | 34 | 48 | 2.813 |
| 58 | 6 | 39 | 33.259 | 2231 | 49 | 9.73N | 75 | 34.60E | 48 | 45N | 75 | 51E | 614842 | 24638 | 159 | 2 | 34 | 57 | 2.816 |
| 59 | 6 | 39 | 35.488 | 2230 | 49 | 1.30N | 75 | 39.52E | 48 | 36N | 75 | 56E | 614558 | 24638 | 159 | 7 | 35 | 6 | 2.818 |
| 60 | 6 | 39 | 37.724 | 2235 | 48 | 52.83N | 75 | 44.41E | 48 | 28N | 76 | 1E | 614275 | 24639 | 159 | 11 | 35 | 15 | 2.811 |
| 61 | 6 | 39 | 39.953 | 2230 | 48 | 44.38N | 75 | 49.26E | 48 | 19N | 76 | 5E | 613995 | 24640 | 159 | 16 | 35 | 24 | 2.818 |
| 62 | 6 | 39 | 42.179 | 2225 | 48 | 35.95N | 75 | 54.07E | 48 | 11N | 76 | 10E | 613718 | 24640 | 159 | 20 | 35 | 33 | 2.824 |
| 63 | 6 | 39 | 44.408 | 2230 | 48 | 27.49N | 75 | 58.86E | 48 | 2N | 76 | 15E | 613441 | 24641 | 159 | 25 | 35 | 42 | 2.818 |
| 64 | 6 | 39 | 46.634 | 2225 | 48 | 19.05N | 76 | 3.62E | 47 | 54N | 76 | 19E | 613168 | 24642 | 159 | 29 | 35 | 51 | 2.824 |
| 65 | 6 | 39 | 48.854 | 2220 | 48 | 10.62N | 76 | 8.33E | 47 | 46N | 76 | 24E | 612896 | 24642 | 159 | 34 | 35 | 59 | 2.830 |
| 66 | 6 | 39 | 51.073 | 2220 | 48 | 2.19N | 76 | 13.01E | 47 | 37N | 76 | 29E | 612627 | 24643 | 159 | 38 | 36 | 8 | 2.830 |
| 67 | 6 | 39 | 53.299 | 2225 | 47 | 53.73N | 76 | 17.68E | 47 | 29N | 76 | 33E | 612359 | 24644 | 159 | 42 | 36 | 17 | 2.824 |
| 68 | 6 | 39 | 55.519 | 2220 | 47 | 45.29N | 76 | 22.31E | 47 | 20N | 76 | 38E | 612093 | 24644 | 159 | 46 | 36 | 26 | 2.830 |
| 69 | 6 | 39 | 57.739 | 2221 | 47 | 36.84N | 76 | 26.91E | 47 | 12N | 76 | 42E | 611829 | 24645 | 159 | 51 | 36 | 35 | 2.829 |
| 70 | 6 | 39 | 59.964 | 2224 | 47 | 28.37N | 76 | 31.49E | 47 | 3N | 76 | 47E | 611567 | 24645 | 159 | 55 | 36 | 44 | 2.825 |
| 71 | 6 | 40 | 2.184 | 2220 | 47 | 19.92N | 76 | 36.03E | 46 | 55N | 76 | 51E | 611307 | 24646 | 159 | 59 | 36 | 53 | 2.830 |
| 72 | 6 | 40 | 4.408 | 2225 | 47 | 11.44N | 76 | 40.56E | 46 | 46N | 76 | 56E | 611048 | 24647 | 160 | 3 | 37 | 2 | 2.824 |
| 73 | 6 | 40 | 6.623 | 2215 | 47 | 3.00N | 76 | 45.04E | 46 | 38N | 77 | 0E | 610794 | 24647 | 160 | 7 | 37 | 10 | 2.837 |
| 74 | 6 | 40 | 8.844 | 2220 | 46 | 54.53N | 76 | 49.51E | 46 | 29N | 77 | 4E | 610539 | 24648 | 160 | 11 | 37 | 19 | 2.830 |
| 75 | 6 | 40 | 11.064 | 2221 | 46 | 46.06N | 76 | 53.95E | 46 | 21N | 77 | 9E | 610287 | 24649 | 160 | 15 | 37 | 28 | 2.829 |
| 76 | 6 | 40 | 13.283 | 2219 | 46 | 37.59N | 76 | 58.36E | 46 | 12N | 77 | 13E | 610037 | 24649 | 160 | 19 | 37 | 37 | 2.832 |
| 77 | 6 | 40 | 15.504 | 2220 | 46 | 29.10N | 77 | 2.74E | 46 | 4N | 77 | 17E | 609789 | 24650 | 160 | 23 | 37 | 46 | 2.830 |
| 78 | 6 | 40 | 17.719 | 2215 | 46 | 20.64N | 77 | 7.10E | 45 | 55N | 77 | 22E | 609543 | 24650 | 160 | 27 | 37 | 54 | 2.837 |
| 79 | 6 | 40 | 19.935 | 2216 | 46 | 12.17N | 77 | 11.42E | 45 | 47N | 77 | 26E | 609300 | 24651 | 160 | 31 | 38 | 3 | 2.835 |
| 80 | 6 | 40 | 22.153 | 2219 | 46 | 3.69N | 77 | 15.73E | 45 | 39N | 77 | 30E | 609057 | 24651 | 160 | 35 | 38 | 12 | 2.832 |
| 81 | 6 | 40 | 24.368 | 2215 | 45 | 55.21N | 77 | 20.01E | 45 | 30N | 77 | 34E | 608817 | 24652 | 160 | 39 | 38 | 21 | 2.837 |
| 82 | 6 | 40 | 26.583 | 2215 | 45 | 46.73N | 77 | 24.26E | 45 | 22N | 77 | 38E | 608579 | 24653 | 160 | 43 | 38 | 30 | 2.837 |
| 83 | 6 | 40 | 28.804 | 2220 | 45 | 38.23N | 77 | 28.50E | 45 | 13N | 77 | 42E | 608342 | 24653 | 160 | 47 | 38 | 38 | 2.830 |
| 84 | 6 | 40 | 31.014 | 2210 | 45 | 29.76N | 77 | 32.70E | 45 | 5N | 77 | 47E | 608109 | 24654 | 160 | 50 | 38 | 47 | 2.830 |
| 85 | 6 | 40 | 33.229 | 2215 | 45 | 21.27N | 77 | 36.88E | 44 | 56N | 77 | 51E | 607878 | 24654 | 160 | 54 | 38 | 56 | 2.837 |
| 86 | 6 | 40 | 35.438 | 2210 | 45 | 12.88N | 77 | 41.03E | 44 | 48N | 77 | 55E | 607648 | 24655 | 160 | 58 | 39 | 5 | 2.843 |
| 87 | 6 | 40 | 37.658 | 2220 | 45 | 4.29N | 77 | 45.17E | 44 | 39N | 77 | 59E | 607428 | 24655 | 161 | 2 | 39 | 14 | 2.836 |
| 88 | 6 | 40 | 39.873 | 2215 | 44 | 55.79N | 77 | 49.28E | 44 | 31N | 78 | 3E | 607194 | 24656 | 161 | 5 | 39 | 22 | 2.837 |
| 89 | 6 | 40 | 42.083 | 2210 | 44 | 47.38N | 77 | 53.36E | 44 | 22N | 78 | 7E | 606970 | 24656 | 161 | 9 | 39 | 31 | 2.843 |
| 90 | 6 | 40 | 44.299 | 2215 | 44 | 38.79N | 77 | 57.43E | 44 | 14N | 78 | 11E | 606749 | 24657 | 161 | 13 | 39 | 40 | 2.837 |

TOP SECRET

HANDLE VIA

PASS 1180 FWD 5MAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65 PAGE 58

| FRM | 2 TIME | HR MI SEC | DTM | MILS | DEG MIN | LAT | DEG MIN | LONG | DEG MIN | LAT | DEG MIN | LONG | ALTITUDE FEET | VELOC F/S | DEG MI | DEG MI | SUN/ | PITCH | DEG MIN | ROLL | DEG MIN | YAW | DEG MIN | SCAN RATE |
|-----|--------|-----------|-------|------|---------|-----|---------|------|---------|-----|---------|--------|---------------|-----------|--------|--------|------|-------|---------|------|---------|-------|---------|-----------|
| 91 | 6 40 | 46.514 | 2215 | 44 | 30.28N | 78 | 1.47E | 44 | 5N | 78 | 15E | 606529 | 24658 | 161 16 | 39 | 49 | 14 | 53 | -0 | 2 | ND | 2.837 | | |
| 92 | 6 40 | 48.729 | 2215 | 44 | 21.77N | 78 | 5.49E | 43 | 57N | 78 | 19E | 606311 | 24658 | 161 20 | 39 | 58 | 14 | 53 | -0 | 2 | ND | 2.837 | | |
| 93 | 6 40 | 50.938 | 2210 | 44 | 13.27N | 78 | 9.49E | 43 | 48N | 78 | 23E | 606095 | 24659 | 161 23 | 40 | 6 | 14 | 53 | -0 | 1 | ND | 2.843 | | |
| 94 | 6 40 | 53.153 | 2215 | 44 | 4.75N | 78 | 13.46E | 43 | 40N | 78 | 27E | 605882 | 24659 | 161 27 | 40 | 15 | 14 | 53 | -0 | 1 | ND | 2.837 | | |
| 95 | 6 40 | 55.363 | 2210 | 43 | 56.24N | 78 | 17.44E | 43 | 31N | 78 | 30E | 605670 | 24660 | 161 31 | 40 | 24 | 14 | 54 | -0 | 0 | ND | 2.843 | | |
| 96 | 6 40 | 57.573 | 2210 | 43 | 47.73N | 78 | 21.34E | 43 | 23N | 78 | 34E | 605460 | 24660 | 161 34 | 40 | 33 | 14 | 54 | -0 | 0 | ND | 2.843 | | |
| 97 | 6 43 | 8.403 | 30831 | 35 | 19.14N | 81 | 42.08E | 34 | 55N | 81 | 52E | 596834 | 24681 | 164 24 | 49 | 11 | 14 | 41 | 0 | 1 | ND | 0.848 | | |
| 98 | 6 43 | 11.453 | 30850 | 35 | 7.19N | 81 | 46.12E | 34 | 43N | 81 | 56E | 596725 | 24681 | 164 27 | 49 | 23 | 14 | 42 | 0 | 1 | ND | 2.060 | | |
| 99 | 6 43 | 13.942 | 2489 | 34 | 57.43N | 81 | 49.42E | 34 | 33N | 81 | 59E | 596638 | 24682 | 164 30 | 49 | 33 | 14 | 43 | -0 | 1 | ND | 2.524 | | |
| 000 | 6 43 | 16.202 | 2340 | 34 | 48.26N | 81 | 52.50E | 34 | 24N | 82 | 2E | 596561 | 24682 | 164 32 | 49 | 42 | 14 | 44 | -0 | 2 | ND | 2.685 | | |
| 001 | 6 43 | 18.558 | 2275 | 34 | 39.33N | 81 | 55.49E | 34 | 15N | 82 | 5E | 596487 | 24682 | 164 35 | 49 | 51 | 14 | 45 | -0 | 2 | ND | 2.762 | | |
| 002 | 6 43 | 20.803 | 2245 | 34 | 30.52N | 81 | 58.42E | 34 | 6N | 82 | 8E | 596417 | 24682 | 164 37 | 50 | 0 | 14 | 45 | -0 | 3 | ND | 2.799 | | |
| 003 | 6 43 | 23.037 | 2235 | 34 | 21.76N | 82 | 1.33E | 33 | 57N | 82 | 11E | 596350 | 24682 | 164 39 | 50 | 9 | 14 | 46 | -0 | 3 | ND | 2.811 | | |
| 004 | 6 43 | 25.263 | 2225 | 34 | 13.02N | 82 | 4.22E | 33 | 48N | 82 | 14E | 596284 | 24682 | 164 41 | 50 | 17 | 14 | 47 | -0 | 4 | ND | 2.824 | | |
| 005 | 6 43 | 27.482 | 2220 | 34 | 4.31N | 82 | 7.08E | 33 | 40N | 82 | 17E | 596222 | 24683 | 164 44 | 50 | 26 | 14 | 48 | -0 | 4 | ND | 2.830 | | |
| 006 | 6 43 | 29.702 | 2220 | 33 | 55.60N | 82 | 9.94E | 33 | 31N | 82 | 19E | 596162 | 24683 | 164 46 | 50 | 35 | 14 | 48 | -0 | 4 | ND | 2.830 | | |
| 007 | 6 43 | 31.923 | 2220 | 33 | 46.88N | 82 | 12.70E | 33 | 22N | 82 | 22E | 596104 | 24683 | 164 48 | 50 | 44 | 14 | 49 | -0 | 4 | ND | 2.830 | | |
| 008 | 6 43 | 34.138 | 2215 | 33 | 38.18N | 82 | 15.60E | 33 | 13N | 82 | 25E | 596049 | 24683 | 164 50 | 50 | 52 | 14 | 50 | -0 | 4 | ND | 2.830 | | |
| 009 | 6 43 | 36.353 | 2215 | 33 | 29.48N | 82 | 18.42E | 33 | 5N | 82 | 28E | 595996 | 24683 | 164 52 | 51 | 1 | 14 | 51 | -0 | 4 | ND | 2.837 | | |
| 010 | 6 43 | 38.563 | 2210 | 33 | 20.79N | 82 | 21.21E | 32 | 56N | 82 | 31E | 595945 | 24683 | 164 55 | 51 | 10 | 14 | 52 | -0 | 5 | ND | 2.837 | | |
| 011 | 6 43 | 40.777 | 2215 | 33 | 12.09N | 82 | 24.00E | 32 | 47N | 82 | 33E | 595897 | 24683 | 164 57 | 51 | 18 | 14 | 52 | -0 | 6 | ND | 2.837 | | |
| 012 | 6 43 | 42.988 | 2211 | 33 | 3.40N | 82 | 26.70E | 32 | 39N | 82 | 36E | 595851 | 24684 | 164 59 | 51 | 27 | 14 | 52 | -0 | 6 | ND | 2.842 | | |
| 013 | 6 43 | 45.202 | 2214 | 32 | 54.69N | 82 | 29.55E | 32 | 30N | 82 | 39E | 595807 | 24684 | 165 1 | 51 | 36 | 14 | 53 | -0 | 9 | ND | 2.842 | | |
| 014 | 6 43 | 47.413 | 2211 | 32 | 46.00N | 82 | 32.30E | 32 | 21N | 82 | 41E | 595766 | 24684 | 165 3 | 51 | 45 | 14 | 54 | -0 | 10 | ND | 2.843 | | |
| 015 | 6 43 | 49.627 | 2214 | 32 | 37.29N | 82 | 35.04E | 32 | 12N | 82 | 44E | 595727 | 24684 | 165 5 | 51 | 53 | 14 | 54 | -0 | 11 | ND | 2.838 | | |
| 016 | 6 43 | 51.838 | 2210 | 32 | 28.60N | 82 | 37.70E | 32 | 4N | 82 | 47E | 595690 | 24684 | 165 7 | 52 | 2 | 14 | 55 | -0 | 11 | ND | 2.843 | | |
| 017 | 6 43 | 54.042 | 2205 | 32 | 19.92N | 82 | 40.49E | 31 | 55N | 82 | 49E | 595657 | 24684 | 165 9 | 52 | 11 | 14 | 56 | -0 | 12 | ND | 2.850 | | |
| 018 | 6 43 | 56.252 | 2210 | 32 | 11.23N | 82 | 43.20E | 31 | 46N | 82 | 52E | 595625 | 24684 | 165 11 | 52 | 19 | 14 | 56 | -0 | 12 | ND | 2.850 | | |
| 019 | 6 43 | 58.457 | 2205 | 32 | 2.55N | 82 | 45.89E | 31 | 38N | 82 | 55E | 595595 | 24684 | 165 13 | 52 | 28 | 14 | 57 | -0 | 12 | ND | 2.850 | | |
| 020 | 6 44 | 0.662 | 2205 | 32 | 14.00N | 82 | 48.58E | 31 | 29N | 82 | 58E | 595568 | 24684 | 165 15 | 52 | 37 | 14 | 57 | -0 | 12 | ND | 2.850 | | |
| 021 | 6 44 | 2.872 | 2210 | 31 | 53.87N | 82 | 51.26E | 31 | 20N | 83 | 0E | 595543 | 24684 | 165 17 | 52 | 45 | 14 | 58 | -0 | 11 | ND | 2.843 | | |
| 022 | 6 44 | 5.077 | 2205 | 31 | 36.48N | 82 | 53.92E | 31 | 11N | 83 | 3E | 595520 | 24684 | 165 19 | 52 | 54 | 14 | 58 | -0 | 11 | ND | 2.843 | | |
| 023 | 6 44 | 7.287 | 2210 | 31 | 27.78N | 82 | 56.58E | 31 | 3N | 83 | 5E | 595500 | 24685 | 165 21 | 53 | 3 | 14 | 58 | -0 | 10 | ND | 2.843 | | |
| 024 | 6 44 | 9.497 | 2210 | 31 | 19.07N | 82 | 59.23E | 30 | 54N | 83 | 8E | 595482 | 24685 | 165 23 | 53 | 11 | 14 | 59 | -0 | 10 | ND | 2.843 | | |
| 025 | 6 44 | 11.702 | 2205 | 31 | 10.38N | 83 | 1.06E | 30 | 45N | 83 | 11E | 595467 | 24685 | 165 25 | 53 | 20 | 14 | 59 | -0 | 9 | ND | 2.850 | | |
| 026 | 6 44 | 13.907 | 2205 | 31 | 1.69N | 83 | 4.49E | 30 | 37N | 83 | 13E | 595444 | 24685 | 165 27 | 53 | 28 | 14 | 59 | -0 | 8 | ND | 2.850 | | |
| 027 | 6 44 | 16.113 | 2200 | 30 | 53.00N | 83 | 7.10E | 30 | 28N | 83 | 16E | 595429 | 24685 | 165 29 | 53 | 37 | 14 | 59 | -0 | 7 | ND | 2.848 | | |
| 028 | 6 44 | 18.317 | 2204 | 30 | 44.31N | 83 | 9.71E | 30 | 19N | 83 | 19E | 595435 | 24685 | 165 31 | 53 | 46 | 14 | 60 | -0 | 6 | ND | 2.851 | | |
| 029 | 6 44 | 20.522 | 2205 | 30 | 35.62N | 83 | 12.30E | 30 | 11N | 83 | 21E | 595429 | 24685 | 165 33 | 53 | 54 | 14 | 59 | -0 | 5 | ND | 2.850 | | |
| 030 | 6 44 | 22.728 | 2205 | 30 | 26.92N | 83 | 14.89E | 30 | 2N | 83 | 24E | 595425 | 24685 | 165 35 | 54 | 3 | 14 | 59 | -0 | 5 | ND | 2.850 | | |
| 031 | 6 44 | 24.938 | 2210 | 30 | 18.21N | 83 | 17.47E | 29 | 53N | 83 | 26E | 595424 | 24685 | 165 36 | 54 | 11 | 14 | 58 | -0 | 5 | ND | 2.843 | | |
| 032 | 6 44 | 27.147 | 2210 | 30 | 9.49N | 83 | 20.04E | 29 | 44N | 83 | 29E | 595425 | 24685 | 165 38 | 54 | 20 | 14 | 58 | -0 | 4 | ND | 2.856 | | |
| 033 | 6 44 | 29.348 | 2200 | 30 | 0.81N | 83 | 22.60E | 29 | 36N | 83 | 31E | 595429 | 24685 | 165 40 | 54 | 29 | 14 | 58 | -0 | 4 | ND | 2.850 | | |
| 034 | 6 44 | 31.553 | 2205 | 29 | 52.11N | 83 | 25.15E | 29 | 27N | 83 | 34E | 595434 | 24685 | 165 42 | 54 | 37 | 14 | 58 | -0 | 3 | ND | 2.850 | | |
| 035 | 6 44 | 33.763 | 2210 | 29 | 43.38N | 83 | 27.69E | 29 | 18N | 83 | 36E | 595443 | 24685 | 165 44 | 54 | 46 | 14 | 57 | -0 | 3 | ND | 2.843 | | |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1180 FWD SMAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65 PAGE 51

| FRM | 2 TIME | HR MI SEC | DTIM | DEG MIN | LAT | DEG | LONG | DEG MIN | LAT | DEG | LONG | ALTITUDE | VELOC | DEG MI | DEG SUN/ | DEG MI | PITCH | DEG MIN | ROLL | DEG MIN | YAW | DEG MIN | SCAN |
|-----|--------|-----------|-------|---------|-----|-----|--------|---------|-----|-----|------|----------|-------|--------|----------|--------|-------|---------|-------|---------|-----|---------|------|
| | | | MILS | MIN | MIN | MIN | MIN | MIN | MIN | MIN | MIN | FEET | F/S | DEG MI | DEG MI | DEG MI | MIN | MIN | MIN | MIN | MIN | MIN | RATE |
| 136 | 6 44 | 35.973 | 2210 | 29 34 | 66N | 83 | 30.23E | 29 10N | 83 | 39E | 83 | 595453 | 24685 | 165 46 | 54 54 | 14 56 | 14 56 | -0 4 | -0 4 | ND | ND | 2.853 | |
| 137 | 6 44 | 38.178 | 2205 | 29 25 | 96N | 83 | 32.75E | 29 1N | 83 | 41E | 83 | 595467 | 24685 | 165 47 | 55 3 | 14 55 | 14 55 | -0 4 | -0 4 | ND | ND | 2.850 | |
| 138 | 6 44 | 40.379 | 2201 | 29 17 | 27N | 83 | 35.26E | 28 52N | 83 | 44E | 83 | 595482 | 24685 | 165 49 | 55 11 | 14 55 | 14 55 | -0 4 | -0 4 | ND | ND | 2.855 | |
| 139 | 6 44 | 42.588 | 2209 | 29 8 | 54N | 83 | 37.77E | 28 44N | 83 | 46E | 83 | 595500 | 24685 | 165 51 | 55 20 | 14 53 | 14 53 | -0 4 | -0 4 | ND | ND | 2.844 | |
| 140 | 6 44 | 44.798 | 2210 | 28 59 | 81N | 83 | 40.27E | 28 35N | 83 | 51E | 83 | 595520 | 24685 | 165 53 | 55 28 | 14 52 | 14 52 | -0 5 | -0 5 | ND | ND | 2.843 | |
| 141 | 6 44 | 47.002 | 2205 | 28 51 | 11N | 83 | 42.76E | 28 26N | 83 | 51E | 83 | 595543 | 24685 | 165 54 | 55 37 | 14 51 | 14 51 | -0 7 | -0 7 | ND | ND | 2.858 | |
| 142 | 6 50 | 19.832 | 32830 | 6 47 | 71N | 88 | 53.76E | 6 22N | 89 | 0E | 89 | 627252 | 24612 | 168 24 | 75 12 | 14 32 | 14 32 | -0 15 | -0 15 | ND | ND | 0.879 | |
| 143 | 6 50 | 23.028 | 3196 | 6 34 | 96N | 88 | 56.38E | 6 9N | 89 | 3E | 89 | 627330 | 24611 | 168 24 | 75 20 | 14 31 | 14 31 | -0 16 | -0 16 | ND | ND | 1.966 | |
| 144 | 6 50 | 25.678 | 2649 | 6 24 | 40N | 88 | 58.55E | 5 58N | 89 | 5E | 89 | 628313 | 24610 | 168 24 | 75 27 | 14 30 | 14 30 | -0 17 | -0 17 | ND | ND | 2.372 | |
| 145 | 6 50 | 28.152 | 2475 | 6 14 | 54N | 89 | 0.57E | 5 49N | 89 | 7E | 89 | 628768 | 24609 | 168 25 | 75 34 | 14 28 | 14 28 | -0 18 | -0 18 | ND | ND | 2.539 | |
| 146 | 6 50 | 30.567 | 2415 | 6 4 | 91N | 89 | 2.54E | 5 39N | 89 | 9E | 89 | 629215 | 24608 | 168 25 | 75 40 | 14 27 | 14 27 | -0 19 | -0 19 | ND | ND | 2.602 | |
| 147 | 6 50 | 32.952 | 2385 | 5 55 | 40N | 89 | 4.49E | 5 29N | 89 | 11E | 89 | 629659 | 24607 | 168 25 | 75 46 | 14 26 | 14 26 | -0 20 | -0 20 | ND | ND | 2.634 | |
| 148 | 6 50 | 35.313 | 2361 | 5 45 | 99N | 89 | 6.41E | 5 20N | 89 | 13E | 89 | 630101 | 24605 | 168 26 | 75 52 | 14 25 | 14 25 | -0 21 | -0 21 | ND | ND | 2.661 | |
| 149 | 6 50 | 37.668 | 2355 | 5 36 | 60N | 89 | 8.33E | 5 11N | 89 | 15E | 89 | 630545 | 24605 | 168 26 | 75 58 | 14 24 | 14 24 | -0 21 | -0 21 | ND | ND | 2.668 | |
| 150 | 6 50 | 40.018 | 2349 | 5 27 | 24N | 89 | 10.24E | 5 1N | 89 | 17E | 89 | 630991 | 24604 | 168 26 | 76 4 | 14 24 | 14 24 | -0 21 | -0 21 | ND | ND | 2.675 | |
| 151 | 6 50 | 42.368 | 2351 | 5 17 | 87N | 89 | 12.16E | 4 52N | 89 | 18E | 89 | 631440 | 24603 | 168 27 | 76 10 | 14 22 | 14 22 | -0 22 | -0 22 | ND | ND | 2.673 | |
| 152 | 6 50 | 44.718 | 2349 | 5 8 | 50N | 89 | 14.07E | 4 43N | 89 | 20E | 89 | 631891 | 24602 | 168 27 | 76 16 | 14 21 | 14 21 | -0 22 | -0 22 | ND | ND | 2.675 | |
| 153 | 6 50 | 47.063 | 2345 | 4 59 | 15N | 89 | 15.97E | 4 33N | 89 | 22E | 89 | 632344 | 24601 | 168 27 | 76 21 | 14 21 | 14 21 | -0 21 | -0 21 | ND | ND | 2.679 | |
| 154 | 6 50 | 49.407 | 2345 | 4 49 | 81N | 89 | 17.87E | 4 24N | 89 | 24E | 89 | 632800 | 24600 | 168 28 | 76 27 | 14 21 | 14 21 | -0 21 | -0 21 | ND | ND | 2.679 | |
| 155 | 6 50 | 51.758 | 2350 | 4 40 | 44N | 89 | 19.78E | 4 15N | 89 | 26E | 89 | 633260 | 24598 | 168 28 | 76 32 | 14 21 | 14 21 | -0 20 | -0 20 | ND | ND | 2.674 | |
| 156 | 6 50 | 54.107 | 2350 | 4 31 | 07N | 89 | 21.68E | 4 5N | 89 | 28E | 89 | 633722 | 24597 | 168 28 | 76 37 | 14 21 | 14 21 | -0 19 | -0 19 | ND | ND | 2.674 | |
| 157 | 6 50 | 56.452 | 2345 | 4 21 | 73N | 89 | 23.58E | 4 56N | 89 | 30E | 89 | 634186 | 24596 | 168 28 | 76 43 | 14 22 | 14 22 | -0 19 | -0 19 | ND | ND | 2.679 | |
| 158 | 6 50 | 58.798 | 2345 | 4 12 | 38N | 89 | 25.48E | 4 46N | 89 | 32E | 89 | 634652 | 24595 | 168 29 | 76 48 | 14 22 | 14 22 | -0 19 | -0 19 | ND | ND | 2.679 | |
| 159 | 6 51 | 1.152 | 2355 | 4 3 | 00N | 89 | 27.39E | 3 37N | 89 | 34E | 89 | 635124 | 24594 | 168 29 | 76 53 | 14 23 | 14 23 | -0 18 | -0 18 | ND | ND | 2.668 | |
| 160 | 6 51 | 3.502 | 2350 | 3 53 | 63N | 89 | 29.29E | 3 28N | 89 | 36E | 89 | 635597 | 24593 | 168 29 | 76 58 | 14 25 | 14 25 | -0 18 | -0 18 | ND | ND | 2.674 | |
| 161 | 6 51 | 5.857 | 2355 | 3 44 | 25N | 89 | 31.19E | 3 18N | 89 | 38E | 89 | 636074 | 24592 | 168 29 | 77 3 | 14 25 | 14 25 | -0 19 | -0 19 | ND | ND | 2.668 | |
| 162 | 6 51 | 8.207 | 2350 | 3 34 | 88N | 89 | 33.09E | 3 9N | 89 | 39E | 89 | 636552 | 24591 | 168 29 | 77 8 | 14 27 | 14 27 | -0 19 | -0 19 | ND | ND | 2.674 | |
| 163 | 6 51 | 10.567 | 2360 | 3 25 | 48N | 89 | 34.99E | 2 59N | 89 | 41E | 89 | 637036 | 24590 | 168 30 | 77 13 | 14 29 | 14 29 | -0 20 | -0 20 | ND | ND | 2.662 | |
| 164 | 6 51 | 12.928 | 2360 | 3 16 | 07N | 89 | 36.90E | 2 50N | 89 | 43E | 89 | 637521 | 24589 | 168 30 | 77 18 | 14 32 | 14 32 | -0 20 | -0 20 | ND | ND | 2.662 | |

Approved For Release 2001/08/21 : CIA-RDP80-05439A000500150002-2

TOP SECRET

HANDLE VIA

| FRM | 2 TIME | DTIM | CAMERA NADIR | | | FORMAT CENTER | | | ALTIITUDE VELOC | | | AZIMUTH SUN/ | | | PITCH | ROLL | YAW | SCAN | |
|-----------|-------------|---------|--------------|--------|------|---------------|-----|-----|-----------------|------|--------|--------------|--------|--------|---------|---------|---------|------|-------|
| HR MI SEC | MILS | DEG MIN | DEG | MIN | LONG | DEG MIN | DEG | MIN | LONG | FEET | F/S | DEG MI | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE | |
| 1 | 9 17 21.018 | 0 | 38 | 16.98N | 114 | 18.54W | 38 | 56N | 114 | 1W | 942612 | 23895 | 16 | 23 | -51 | 26 | ND | ND | 1.371 |
| 2 | 9 17 25.602 | 4584 | 38 | 34.29N | 114 | 12.05W | 39 | 14N | 113 | 55W | 941312 | 23898 | 16 | 28 | -51 | 8 | ND | ND | 1.371 |
| 3 | 9 17 29.632 | 4830 | 38 | 49.51N | 114 | 6.30W | 39 | 29N | 113 | 49W | 940169 | 23901 | 16 | 33 | -50 | 53 | ND | ND | 1.559 |
| 4 | 9 17 33.517 | 3885 | 39 | 4.17N | 114 | 0.71W | 39 | 43N | 113 | 43W | 939866 | 23903 | 16 | 38 | -50 | 38 | ND | ND | 1.617 |
| 5 | 9 17 37.352 | 3835 | 39 | 18.63N | 113 | 55.14W | 39 | 58N | 113 | 37W | 937976 | 23905 | 16 | 42 | -50 | 24 | ND | ND | 1.638 |
| 6 | 9 17 41.156 | 3805 | 39 | 32.98N | 113 | 49.57W | 40 | 12N | 113 | 32W | 936896 | 23908 | 16 | 47 | -50 | 9 | ND | ND | 1.651 |
| 7 | 9 17 44.951 | 3795 | 39 | 47.28N | 113 | 43.98W | 40 | 26N | 113 | 26W | 935817 | 23910 | 16 | 52 | -49 | 55 | ND | ND | 1.658 |
| 8 | 9 17 48.741 | 3790 | 40 | 1.56N | 113 | 38.34W | 40 | 48N | 113 | 20W | 934740 | 23913 | 16 | 57 | -49 | 40 | ND | ND | 1.658 |
| 9 | 9 17 52.521 | 3780 | 40 | 15.80N | 113 | 32.67W | 40 | 55N | 113 | 15W | 933664 | 23915 | 17 | 2 | -49 | 26 | ND | ND | 1.662 |
| 10 | 9 17 56.291 | 3770 | 40 | 30.00N | 113 | 26.97W | 41 | 9N | 113 | 9W | 932592 | 23917 | 17 | 7 | -49 | 12 | ND | ND | 1.667 |
| 11 | 9 18 0.058 | 3766 | 40 | 44.17N | 113 | 21.23W | 41 | 23N | 113 | 3W | 931520 | 23920 | 17 | 12 | -48 | 57 | ND | ND | 1.668 |
| 12 | 9 18 3.816 | 3759 | 40 | 58.31N | 113 | 15.45W | 41 | 37N | 112 | 57W | 930448 | 23922 | 17 | 17 | -48 | 43 | ND | ND | 1.672 |

TALENT-KEYHOLE CONTROL ONLY

FRAME EPHMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65

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SPECIAL HANDLING REQUIRED

TOP SECRET

HANDLE VIA

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TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1200 FWD SMAR65

FRAME EPHMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65

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| FRM | HR MI | SEC | DTIM | DEG | LAT | LONG | DEG | LAT | LONG | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-----|-------|-----|--------|------|-----------|------|--------|-----|------|----------|--------|---------|------|-------|------|-----|-------|
| 1 | 9 | 38 | 38.991 | 0 | 51.22.03N | 28 | 53.24E | 50 | 58N | 10E | 618592 | 24628 | 157 | 46 | 32 | 33 | 2.156 |
| 2 | 9 | 38 | 41.905 | 2914 | 51.11.91N | 29 | 0.34E | 50 | 47N | 17E | 618189 | 24629 | 157 | 52 | 32 | 45 | 2.156 |
| 3 | 9 | 38 | 44.440 | 2535 | 51.2.40N | 29 | 6.47E | 50 | 38N | 29E | 617841 | 24630 | 157 | 58 | 32 | 55 | 2.479 |
| 4 | 9 | 38 | 46.831 | 2391 | 50.53.42N | 29 | 12.21E | 50 | 29N | 29E | 617515 | 24631 | 158 | 4 | 33 | 4 | 2.628 |
| 5 | 9 | 38 | 49.160 | 2329 | 50.44.67N | 29 | 17.76E | 50 | 20N | 29E | 617199 | 24632 | 158 | 9 | 33 | 14 | 2.698 |
| 6 | 9 | 38 | 51.455 | 2295 | 50.36.04N | 29 | 23.20E | 50 | 11N | 29E | 616890 | 24632 | 158 | 14 | 33 | 23 | 2.738 |
| 7 | 9 | 38 | 53.740 | 2285 | 50.27.45N | 29 | 28.57E | 50 | 34N | 29E | 616583 | 24633 | 158 | 19 | 33 | 32 | 2.750 |
| 8 | 9 | 38 | 56.007 | 2266 | 50.18.92N | 29 | 33.87E | 49 | 54N | 29E | 616283 | 24634 | 158 | 24 | 33 | 41 | 2.773 |
| 9 | 9 | 38 | 58.271 | 2264 | 50.10.39N | 29 | 39.12E | 49 | 45N | 29E | 615984 | 24635 | 158 | 29 | 33 | 50 | 2.775 |
| 10 | 9 | 39 | 0.530 | 2260 | 50.1.87N | 29 | 44.33E | 49 | 37N | 30E | 615687 | 24635 | 158 | 34 | 33 | 59 | 2.780 |
| 11 | 9 | 39 | 2.781 | 2251 | 49.53.38N | 29 | 49.49E | 49 | 28N | 30E | 615333 | 24636 | 158 | 38 | 34 | 8 | 2.791 |
| 12 | 9 | 39 | 5.030 | 2249 | 49.44.98N | 29 | 54.61E | 49 | 20N | 30E | 615102 | 24637 | 158 | 43 | 34 | 17 | 2.794 |
| 13 | 9 | 39 | 7.275 | 2245 | 49.36.42N | 29 | 59.69E | 49 | 11N | 30E | 614812 | 24637 | 158 | 48 | 34 | 26 | 2.799 |
| 14 | 9 | 39 | 9.517 | 2241 | 49.27.95N | 30 | 4.72E | 49 | 3N | 21E | 614526 | 24638 | 158 | 53 | 34 | 35 | 2.804 |
| 15 | 9 | 39 | 11.761 | 2244 | 49.19.47N | 30 | 9.73E | 48 | 54N | 26E | 614240 | 24639 | 158 | 57 | 34 | 44 | 2.800 |
| 16 | 9 | 39 | 13.995 | 2235 | 49.11.02N | 30 | 14.69E | 48 | 48N | 30E | 613958 | 24639 | 159 | 2 | 34 | 53 | 2.811 |
| 17 | 9 | 39 | 16.231 | 2236 | 49.2.55N | 30 | 19.62E | 48 | 37N | 35E | 613678 | 24640 | 159 | 6 | 35 | 2 | 2.810 |
| 18 | 9 | 39 | 18.466 | 2234 | 48.54.09N | 30 | 24.52E | 48 | 29N | 40E | 613399 | 24641 | 159 | 11 | 35 | 11 | 2.813 |
| 19 | 9 | 39 | 20.705 | 2240 | 48.45.61N | 30 | 29.39E | 48 | 20N | 45E | 613122 | 24641 | 159 | 15 | 35 | 20 | 2.805 |
| 20 | 9 | 39 | 22.940 | 2235 | 48.37.14N | 30 | 34.23E | 48 | 12N | 50E | 612847 | 24642 | 159 | 20 | 35 | 29 | 2.811 |
| 21 | 9 | 39 | 25.170 | 2230 | 48.28.68N | 30 | 39.03E | 48 | 3N | 54E | 612576 | 24643 | 159 | 24 | 35 | 37 | 2.818 |
| 22 | 9 | 39 | 27.400 | 2230 | 48.20.22N | 30 | 43.73E | 47 | 55N | 59E | 612305 | 24643 | 159 | 29 | 35 | 47 | 2.818 |
| 23 | 9 | 39 | 29.631 | 2230 | 48.11.75N | 30 | 48.53E | 47 | 46N | 4E | 612037 | 24644 | 159 | 33 | 35 | 56 | 2.818 |
| 24 | 9 | 39 | 31.855 | 2225 | 48.3.30N | 30 | 53.23E | 47 | 38N | 8E | 611772 | 24645 | 159 | 37 | 36 | 5 | 2.824 |
| 25 | 9 | 39 | 34.085 | 2230 | 47.54.82N | 30 | 57.91E | 47 | 30N | 13E | 611507 | 24645 | 159 | 42 | 36 | 14 | 2.818 |
| 26 | 9 | 39 | 36.315 | 2230 | 47.46.34N | 31 | 2.56E | 47 | 21N | 18E | 611244 | 24646 | 159 | 46 | 36 | 23 | 2.818 |
| 27 | 9 | 39 | 38.545 | 2230 | 47.37.86N | 31 | 7.18E | 47 | 43N | 22E | 610984 | 24646 | 159 | 50 | 36 | 32 | 2.818 |
| 28 | 9 | 39 | 40.771 | 2225 | 47.29.39N | 31 | 11.77E | 47 | 4N | 27E | 610726 | 24647 | 159 | 54 | 36 | 40 | 2.824 |
| 29 | 9 | 39 | 42.991 | 2221 | 47.20.93N | 31 | 16.32E | 46 | 56N | 31E | 610470 | 24648 | 159 | 59 | 36 | 49 | 2.825 |
| 30 | 9 | 39 | 45.216 | 2224 | 47.12.45N | 31 | 20.85E | 46 | 47N | 35E | 610215 | 24650 | 160 | 3 | 36 | 58 | 2.825 |
| 31 | 9 | 39 | 47.440 | 2225 | 47.3.97N | 31 | 25.35E | 46 | 39N | 40E | 609964 | 24649 | 160 | 7 | 37 | 7 | 2.824 |
| 32 | 9 | 39 | 49.660 | 2220 | 46.55.51N | 31 | 29.82E | 46 | 30N | 44E | 609714 | 24650 | 160 | 11 | 37 | 16 | 2.830 |
| 33 | 9 | 39 | 51.875 | 2215 | 46.47.05N | 31 | 34.25E | 46 | 22N | 49E | 609466 | 24650 | 160 | 15 | 37 | 25 | 2.837 |
| 34 | 9 | 39 | 54.097 | 2221 | 46.38.57N | 31 | 38.67E | 46 | 13N | 53E | 609221 | 24651 | 160 | 19 | 37 | 34 | 2.829 |
| 35 | 9 | 39 | 56.315 | 2219 | 46.30.10N | 31 | 43.06E | 46 | 5N | 57E | 608977 | 24651 | 160 | 23 | 37 | 42 | 2.832 |
| 36 | 9 | 39 | 58.535 | 2220 | 46.21.62N | 31 | 47.42E | 45 | 56N | 1E | 608735 | 24652 | 160 | 27 | 37 | 51 | 2.830 |
| 37 | 9 | 40 | 0.756 | 2220 | 46.13.13N | 31 | 51.76E | 45 | 48N | 6E | 608495 | 24652 | 160 | 31 | 38 | 0 | 2.830 |
| 38 | 9 | 40 | 2.976 | 2220 | 46.4.64N | 31 | 56.08E | 45 | 39N | 10E | 608257 | 24653 | 160 | 35 | 38 | 9 | 2.830 |
| 39 | 9 | 40 | 5.195 | 2220 | 45.56.14N | 32 | 0.37E | 45 | 31N | 14E | 608020 | 24654 | 160 | 39 | 38 | 18 | 2.830 |
| 40 | 9 | 40 | 7.410 | 2215 | 45.47.67N | 32 | 4.62E | 45 | 22N | 18E | 607787 | 24654 | 160 | 43 | 38 | 27 | 2.837 |
| 41 | 9 | 40 | 9.625 | 2215 | 45.39.18N | 32 | 8.85E | 45 | 14N | 22E | 607555 | 24655 | 160 | 46 | 38 | 36 | 2.837 |
| 42 | 9 | 40 | 11.841 | 2215 | 45.30.70N | 32 | 13.06E | 45 | 6N | 27E | 607325 | 24655 | 160 | 50 | 38 | 44 | 2.837 |
| 43 | 9 | 40 | 14.061 | 2220 | 45.22.19N | 32 | 17.25E | 44 | 57N | 31E | 607098 | 24656 | 160 | 54 | 38 | 53 | 2.830 |
| 44 | 9 | 40 | 16.275 | 2215 | 45.13.69N | 32 | 21.41E | 44 | 49N | 35E | 606872 | 24656 | 160 | 58 | 39 | 2 | 2.837 |
| 45 | 9 | 40 | 18.490 | 2215 | 45.5.20N | 32 | 25.55E | 44 | 40N | 39E | 606648 | 24657 | 161 | 1 | 39 | 11 | 2.837 |

TOP SECRET

HANDLE VIA

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PASS 1200 FWD 5MARG5
FRAME EPHMERIS

| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | ALTITUDE | VELOC | DEG MI | DEG MI | PITCH | ROLL | YAW | SCAN | | | | | | |
|-------|--------|--------|--------|-----------|-----------|----------|-------|--------|--------|--------|---------|---------|------|-------|----|----|-------|----|-------|
| HR MI | SEC | MILS | LAT | LONG | MIN | DEG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | RATE | | | | | | |
| 46 | 9 40 | 20.710 | 2220 | 44 56.68N | 32 29.67E | 44 | 32N | 32 | 43E | 606426 | 24657 | 161 | 5 | 39 20 | 15 | 1 | -0 15 | ND | 2.830 |
| 47 | 9 40 | 22.926 | 2215 | 44 48.17N | 32 33.77E | 44 | 23N | 32 | 47E | 606207 | 24658 | 161 | 9 | 39 29 | 14 | 60 | -0 16 | ND | 2.837 |
| 48 | 9 40 | 25.141 | 2215 | 44 39.66N | 32 37.83E | 44 | 15N | 32 | 51E | 605989 | 24658 | 161 | 12 | 39 37 | 14 | 59 | -0 16 | ND | 2.837 |
| 49 | 9 40 | 27.355 | 2215 | 44 31.15N | 32 41.88E | 44 | 6N | 32 | 55E | 605773 | 24659 | 161 | 16 | 39 46 | 14 | 59 | -0 16 | ND | 2.837 |
| 50 | 9 40 | 29.566 | 2211 | 44 22.65N | 32 45.90E | 43 | 58N | 32 | 59E | 605560 | 24659 | 161 | 20 | 39 55 | 14 | 58 | -0 16 | ND | 2.842 |
| 51 | 9 40 | 31.785 | 2219 | 44 14.12N | 32 49.91E | 43 | 49N | 33 | 3E | 605348 | 24660 | 161 | 23 | 40 4 | 14 | 57 | -0 16 | ND | 2.832 |
| 52 | 9 40 | 33.995 | 2210 | 44 5.62N | 32 53.88E | 43 | 41N | 33 | 6E | 605139 | 24660 | 161 | 27 | 40 13 | 14 | 56 | -0 16 | ND | 2.843 |
| 53 | 9 40 | 36.210 | 2215 | 43 57.10N | 32 57.83E | 43 | 32N | 33 | 10E | 604931 | 24661 | 161 | 30 | 40 21 | 14 | 55 | -0 16 | ND | 2.837 |
| 54 | 9 40 | 38.420 | 2210 | 43 48.59N | 33 1.76E | 43 | 24N | 33 | 14E | 604726 | 24661 | 161 | 34 | 40 30 | 14 | 54 | -0 16 | ND | 2.843 |
| 55 | 9 40 | 40.636 | 2215 | 43 40.05N | 33 5.88E | 43 | 15N | 33 | 18E | 604523 | 24662 | 161 | 37 | 40 39 | 14 | 52 | -0 16 | ND | 2.837 |
| 56 | 9 40 | 42.851 | 2215 | 43 31.52N | 33 9.98E | 43 | 7N | 33 | 22E | 604321 | 24662 | 161 | 41 | 40 48 | 14 | 51 | -0 16 | ND | 2.837 |
| 57 | 9 40 | 45.065 | 2215 | 43 22.98N | 33 13.45E | 42 | 58N | 33 | 26E | 604122 | 24663 | 161 | 44 | 40 57 | 14 | 50 | -0 16 | ND | 2.837 |
| 58 | 9 40 | 47.275 | 2210 | 43 14.46N | 33 17.29E | 42 | 50N | 33 | 29E | 603925 | 24663 | 161 | 48 | 41 5 | 14 | 49 | -0 16 | ND | 2.843 |
| 59 | 9 40 | 49.485 | 2210 | 43 5.94N | 33 21.12E | 42 | 41N | 33 | 33E | 603730 | 24664 | 161 | 51 | 41 14 | 14 | 47 | -0 15 | ND | 2.843 |
| 60 | 9 40 | 51.695 | 2215 | 42 57.41N | 33 24.92E | 42 | 33N | 33 | 37E | 603538 | 24664 | 161 | 54 | 41 23 | 14 | 45 | -0 15 | ND | 2.843 |
| 61 | 9 40 | 53.910 | 2215 | 42 48.86N | 33 28.72E | 42 | 24N | 33 | 41E | 603346 | 24665 | 161 | 58 | 41 32 | 14 | 43 | -0 15 | ND | 2.837 |
| 62 | 9 44 | 4.891 | 90180 | 30 25.71N | 37 56.83E | 30 | 0N | 38 | 5E | 595086 | 24685 | 165 | 35 | 54 5 | 15 | 18 | -0 15 | ND | 2.833 |
| 63 | 9 44 | 7.161 | 3071 | 30 13.60N | 37 59.02E | 29 | 48N | 38 | 8E | 595091 | 24685 | 165 | 38 | 54 17 | 15 | 18 | -0 14 | ND | 2.846 |
| 64 | 9 44 | 9.650 | 2489 | 30 3.78N | 38 2.51E | 29 | 38N | 38 | 11E | 595099 | 24685 | 165 | 40 | 54 27 | 15 | 19 | -0 12 | ND | 2.524 |
| 65 | 9 44 | 11.996 | 2346 | 29 54.52N | 38 5.22E | 29 | 29N | 38 | 14E | 595109 | 24685 | 165 | 42 | 54 36 | 15 | 19 | -0 11 | ND | 2.678 |
| 66 | 9 44 | 14.275 | 2279 | 29 45.53N | 38 7.85E | 29 | 20N | 38 | 17E | 595122 | 24685 | 165 | 43 | 54 45 | 15 | 20 | -0 9 | ND | 2.757 |
| 67 | 9 44 | 16.525 | 2250 | 29 36.65N | 38 10.44E | 29 | 11N | 38 | 19E | 595136 | 24685 | 165 | 45 | 54 54 | 15 | 21 | -0 8 | ND | 2.793 |
| 68 | 9 44 | 18.761 | 2235 | 29 27.82N | 38 13.00E | 29 | 2N | 38 | 22E | 595152 | 24685 | 165 | 47 | 55 3 | 15 | 21 | -0 6 | ND | 2.811 |
| 69 | 9 44 | 20.985 | 2225 | 29 19.04N | 38 15.53E | 28 | 53N | 38 | 24E | 595174 | 24685 | 165 | 49 | 55 11 | 15 | 22 | -0 5 | ND | 2.824 |
| 70 | 9 44 | 23.210 | 2225 | 29 10.25N | 38 18.06E | 28 | 44N | 38 | 27E | 595195 | 24685 | 165 | 51 | 55 20 | 15 | 22 | -0 4 | ND | 2.824 |
| 71 | 9 44 | 25.426 | 2215 | 29 1.50N | 38 20.57E | 28 | 36N | 38 | 30E | 595220 | 24685 | 165 | 52 | 55 29 | 15 | 23 | -0 3 | ND | 2.837 |
| 72 | 9 44 | 27.646 | 2220 | 28 52.73N | 38 23.08E | 28 | 27N | 38 | 32E | 595246 | 24685 | 165 | 54 | 55 37 | 15 | 23 | -0 2 | ND | 2.830 |
| 73 | 9 44 | 29.870 | 2225 | 28 43.95N | 38 25.58E | 28 | 18N | 38 | 35E | 595275 | 24685 | 165 | 56 | 55 46 | 15 | 24 | -0 0 | ND | 2.824 |
| 74 | 9 44 | 32.085 | 2215 | 28 35.19N | 38 28.07E | 28 | 9N | 38 | 37E | 595306 | 24685 | 165 | 58 | 55 55 | 15 | 24 | -0 0 | ND | 2.837 |
| 75 | 9 44 | 34.301 | 2215 | 28 26.44N | 38 30.54E | 28 | 1N | 38 | 40E | 595340 | 24685 | 165 | 59 | 56 3 | 15 | 25 | -0 0 | ND | 2.837 |
| 76 | 9 44 | 36.516 | 2215 | 28 17.68N | 38 33.01E | 27 | 52N | 38 | 42E | 595376 | 24685 | 166 | 1 | 56 12 | 15 | 25 | -0 0 | ND | 2.837 |
| 77 | 9 44 | 38.730 | 2215 | 28 8.93N | 38 35.47E | 27 | 43N | 38 | 45E | 595415 | 24685 | 166 | 3 | 56 20 | 15 | 26 | -0 0 | ND | 2.837 |
| 78 | 9 44 | 40.940 | 2210 | 28 0.19N | 38 37.91E | 27 | 34N | 38 | 47E | 595456 | 24685 | 166 | 4 | 56 29 | 15 | 26 | -0 0 | ND | 2.843 |
| 79 | 9 44 | 43.155 | 2215 | 27 51.43N | 38 40.36E | 27 | 26N | 38 | 49E | 595500 | 24685 | 166 | 6 | 56 38 | 15 | 26 | -0 0 | ND | 2.837 |
| 80 | 9 44 | 45.370 | 2215 | 27 42.67N | 38 42.79E | 27 | 17N | 38 | 52E | 595544 | 24684 | 166 | 8 | 56 46 | 15 | 27 | -0 0 | ND | 2.837 |
| 81 | 9 44 | 47.586 | 2216 | 27 33.91N | 38 45.22E | 27 | 8N | 38 | 54E | 595595 | 24684 | 166 | 9 | 56 55 | 15 | 27 | -0 0 | ND | 2.835 |
| 82 | 9 44 | 49.801 | 2214 | 27 25.15N | 38 47.64E | 26 | 59N | 38 | 57E | 595645 | 24684 | 166 | 11 | 57 4 | 15 | 27 | -0 0 | ND | 2.838 |
| 83 | 9 44 | 52.016 | 2215 | 27 16.39N | 38 50.05E | 26 | 50N | 38 | 59E | 595694 | 24684 | 166 | 13 | 57 12 | 15 | 28 | -0 0 | ND | 2.837 |
| 84 | 9 44 | 54.226 | 2215 | 27 7.64N | 38 52.45E | 26 | 42N | 39 | 1E | 595759 | 24684 | 166 | 14 | 57 21 | 15 | 28 | -0 0 | ND | 2.843 |
| 85 | 9 44 | 56.440 | 2215 | 26 58.88N | 38 54.84E | 26 | 33N | 39 | 4E | 595812 | 24684 | 166 | 16 | 57 29 | 15 | 28 | -0 0 | ND | 2.837 |
| 86 | 9 44 | 58.650 | 2210 | 26 50.13N | 38 57.22E | 26 | 24N | 39 | 6E | 595873 | 24684 | 166 | 17 | 57 38 | 15 | 28 | -0 0 | ND | 2.843 |
| 87 | 9 45 | 0.860 | 2210 | 26 41.38N | 38 59.60E | 26 | 15N | 39 | 9E | 595936 | 24684 | 166 | 19 | 57 46 | 15 | 28 | -0 0 | ND | 2.843 |
| 88 | 9 45 | 3.062 | 2201 | 26 32.67N | 39 1.96E | 26 | 7N | 39 | 11E | 596001 | 24684 | 166 | 21 | 57 55 | 15 | 28 | -0 0 | ND | 2.855 |
| 89 | 9 45 | 5.275 | 2214 | 26 23.90N | 39 4.32E | 25 | 58N | 39 | 13E | 596069 | 24683 | 166 | 22 | 58 3 | 15 | 28 | -0 0 | ND | 2.838 |
| 90 | 9 45 | 7.485 | 2210 | 26 15.15N | 39 6.67E | 25 | 49N | 39 | 15E | 596139 | 24683 | 166 | 24 | 58 12 | 15 | 28 | -0 0 | ND | 2.843 |

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

TOP SECRET

HANDLE VIA

| FRM | HR | MI | SEC | DTM | DEG | LAT | MIN | DEG | LONG | MIN | DEG | ALTITUDE | VELOC | DEG | MI | DEG | SUN/ | PITCH | DEG | ROLL | DEG | YAW | SCAN |
|-----|----|----|--------|------|-----|--------|-----|--------|------|-----|-----|----------|-------|-----|----|-----|------|-------|-----|------|-----|-----|-------|
| 91 | 9 | 45 | 9.700 | 2215 | 26 | 6.38N | 39 | 9.02E | 25 | 48N | 18E | 596212 | 24683 | 166 | 25 | 58 | 21 | 15 | 28 | 0 | 3 | ND | 2.837 |
| 92 | 9 | 45 | 11.910 | 2210 | 25 | 57.63N | 39 | 11.36E | 25 | 32N | 20E | 596287 | 24683 | 166 | 27 | 58 | 29 | 15 | 28 | 0 | 2 | ND | 2.843 |
| 93 | 9 | 45 | 14.120 | 2210 | 25 | 48.88N | 39 | 13.69E | 25 | 23N | 22E | 596365 | 24683 | 166 | 28 | 58 | 38 | 15 | 27 | 0 | 2 | ND | 2.843 |
| 94 | 9 | 45 | 16.330 | 2210 | 25 | 40.12N | 39 | 16.02E | 25 | 14N | 25E | 596444 | 24683 | 166 | 30 | 58 | 46 | 15 | 27 | 0 | 2 | ND | 2.843 |
| 95 | 9 | 45 | 18.540 | 2215 | 25 | 31.35N | 39 | 18.34E | 25 | 5N | 27E | 596527 | 24682 | 166 | 31 | 58 | 55 | 15 | 26 | 0 | 1 | ND | 2.837 |
| 96 | 9 | 45 | 20.750 | 2205 | 25 | 22.61N | 39 | 20.64E | 24 | 57N | 29E | 596612 | 24682 | 166 | 33 | 59 | 3 | 15 | 26 | 0 | 1 | ND | 2.850 |
| 97 | 9 | 45 | 22.960 | 2210 | 25 | 13.85N | 39 | 22.95E | 24 | 48N | 31E | 596692 | 24682 | 166 | 34 | 59 | 12 | 15 | 25 | 0 | 0 | ND | 2.843 |
| 98 | 9 | 45 | 25.170 | 2215 | 25 | 5.87N | 39 | 25.25E | 24 | 39N | 34E | 596798 | 24682 | 166 | 36 | 59 | 20 | 15 | 24 | 0 | 0 | ND | 2.837 |
| 99 | 9 | 45 | 27.380 | 2210 | 24 | 56.31N | 39 | 27.54E | 24 | 30N | 36E | 596882 | 24682 | 166 | 37 | 59 | 29 | 15 | 24 | 0 | 0 | ND | 2.843 |
| 000 | 9 | 45 | 29.601 | 2215 | 24 | 47.53N | 39 | 29.83E | 24 | 22N | 38E | 596978 | 24681 | 166 | 38 | 59 | 37 | 15 | 23 | 0 | 0 | ND | 2.837 |
| 001 | 9 | 45 | 31.811 | 2210 | 24 | 38.77N | 39 | 32.10E | 24 | 13N | 40E | 597074 | 24681 | 166 | 40 | 59 | 46 | 15 | 22 | -0 | 1 | ND | 2.843 |
| 002 | 9 | 45 | 34.021 | 2210 | 24 | 30.08N | 39 | 34.37E | 24 | 4N | 43E | 597174 | 24681 | 166 | 41 | 59 | 54 | 15 | 21 | -0 | 1 | ND | 2.843 |
| 003 | 9 | 45 | 36.235 | 2215 | 24 | 21.22N | 39 | 36.64E | 23 | 55N | 45E | 597276 | 24681 | 166 | 43 | 60 | 3 | 15 | 20 | -0 | 2 | ND | 2.837 |
| 004 | 9 | 45 | 38.445 | 2210 | 24 | 12.45N | 39 | 38.90E | 23 | 47N | 47E | 597381 | 24680 | 166 | 44 | 60 | 11 | 15 | 18 | -0 | 2 | ND | 2.843 |
| 005 | 9 | 45 | 40.651 | 2206 | 24 | 3.78N | 39 | 41.14E | 23 | 38N | 49E | 597488 | 24680 | 166 | 45 | 60 | 19 | 15 | 17 | -0 | 2 | ND | 2.848 |
| 006 | 9 | 45 | 42.865 | 2214 | 23 | 54.92N | 39 | 43.39E | 23 | 29N | 52E | 597598 | 24680 | 166 | 47 | 60 | 28 | 15 | 15 | -0 | 2 | ND | 2.838 |
| 007 | 9 | 45 | 45.075 | 2210 | 23 | 46.15N | 39 | 45.63E | 23 | 20N | 54E | 597710 | 24680 | 166 | 48 | 60 | 36 | 15 | 13 | -0 | 2 | ND | 2.843 |
| 008 | 9 | 45 | 47.290 | 2215 | 23 | 37.37N | 39 | 47.86E | 23 | 12N | 56E | 597825 | 24680 | 166 | 49 | 60 | 45 | 15 | 11 | -0 | 2 | ND | 2.837 |
| 009 | 9 | 45 | 49.496 | 2206 | 23 | 28.61N | 39 | 50.09E | 23 | 3N | 58E | 597942 | 24679 | 166 | 51 | 60 | 53 | 15 | 9 | -0 | 2 | ND | 2.848 |
| 010 | 9 | 45 | 51.710 | 2214 | 23 | 19.83N | 39 | 52.31E | 22 | 54N | 0E | 598062 | 24679 | 166 | 52 | 61 | 1 | 15 | 7 | -0 | 2 | ND | 2.838 |
| 011 | 9 | 45 | 53.926 | 2215 | 23 | 11.03N | 39 | 54.53E | 22 | 46N | 3E | 598184 | 24679 | 166 | 53 | 61 | 10 | 15 | 4 | -0 | 2 | ND | 2.837 |
| 012 | 9 | 45 | 56.137 | 2211 | 23 | 2.26N | 39 | 56.73E | 22 | 37N | 5E | 598305 | 24678 | 166 | 55 | 61 | 18 | 15 | 2 | -0 | 2 | ND | 2.842 |
| 013 | 9 | 45 | 58.346 | 2209 | 22 | 53.49N | 39 | 58.93E | 22 | 28N | 7E | 598435 | 24678 | 166 | 56 | 61 | 26 | 14 | 59 | -0 | 2 | ND | 2.844 |
| 014 | 9 | 46 | 0.556 | 2210 | 22 | 44.72N | 40 | 1.13E | 22 | 19N | 9E | 598564 | 24678 | 166 | 57 | 61 | 35 | 14 | 57 | -0 | 2 | ND | 2.843 |
| 015 | 9 | 46 | 2.775 | 2220 | 22 | 35.90N | 40 | 3.33E | 22 | 11N | 11E | 598697 | 24678 | 166 | 59 | 61 | 43 | 14 | 54 | -0 | 2 | ND | 2.830 |
| 016 | 9 | 46 | 4.990 | 2215 | 22 | 27.11N | 40 | 5.52E | 22 | 2N | 13E | 598832 | 24677 | 167 | 0 | 61 | 52 | 14 | 52 | -0 | 2 | ND | 2.837 |
| 017 | 9 | 46 | 7.206 | 2216 | 22 | 18.31N | 40 | 7.70E | 21 | 53N | 15E | 598969 | 24677 | 167 | 1 | 62 | 0 | 14 | 48 | -0 | 2 | ND | 2.835 |
| 018 | 9 | 46 | 9.420 | 2214 | 22 | 9.52N | 40 | 9.87E | 21 | 45N | 18E | 599109 | 24677 | 167 | 2 | 62 | 8 | 14 | 46 | -0 | 2 | ND | 2.838 |
| 019 | 9 | 46 | 11.636 | 2215 | 22 | 0.72N | 40 | 12.05E | 21 | 36N | 20E | 599252 | 24676 | 167 | 4 | 62 | 16 | 14 | 43 | -0 | 2 | ND | 2.837 |
| 020 | 9 | 46 | 13.851 | 2215 | 21 | 51.92N | 40 | 14.21E | 21 | 27N | 22E | 599396 | 24676 | 167 | 5 | 62 | 25 | 14 | 39 | -0 | 2 | ND | 2.837 |
| 021 | 9 | 46 | 16.062 | 2211 | 21 | 43.14N | 40 | 16.37E | 21 | 18N | 24E | 599543 | 24676 | 167 | 6 | 62 | 33 | 14 | 36 | -0 | 2 | ND | 2.842 |
| 022 | 9 | 46 | 18.276 | 2215 | 21 | 34.34N | 40 | 18.52E | 21 | 10N | 26E | 599693 | 24675 | 167 | 7 | 62 | 41 | 14 | 33 | -0 | 2 | ND | 2.837 |
| 023 | 9 | 46 | 20.495 | 2219 | 21 | 25.52N | 40 | 20.67E | 21 | 1N | 28E | 599845 | 24675 | 167 | 8 | 62 | 50 | 14 | 29 | -0 | 1 | ND | 2.832 |
| 024 | 9 | 46 | 22.705 | 2210 | 21 | 16.74N | 40 | 22.81E | 20 | 52N | 30E | 599999 | 24675 | 167 | 10 | 62 | 58 | 14 | 27 | -0 | 0 | ND | 2.843 |
| 025 | 9 | 46 | 24.920 | 2215 | 21 | 7.94N | 40 | 24.95E | 20 | 44N | 32E | 600156 | 24674 | 167 | 11 | 63 | 6 | 14 | 24 | 0 | 1 | ND | 2.837 |
| 026 | 9 | 46 | 27.131 | 2210 | 20 | 59.15N | 40 | 27.08E | 20 | 35N | 35E | 600316 | 24674 | 167 | 12 | 63 | 14 | 14 | 21 | 0 | 2 | ND | 2.843 |
| 027 | 9 | 46 | 29.346 | 2215 | 20 | 50.35N | 40 | 29.20E | 20 | 26N | 37E | 600479 | 24674 | 167 | 13 | 63 | 31 | 14 | 19 | 0 | 3 | ND | 2.837 |
| 028 | 9 | 46 | 31.565 | 2220 | 20 | 41.53N | 40 | 31.33E | 20 | 17N | 39E | 600643 | 24673 | 167 | 14 | 63 | 31 | 14 | 16 | 0 | 4 | ND | 2.830 |
| 029 | 9 | 46 | 33.776 | 2211 | 20 | 32.74N | 40 | 33.44E | 20 | 9N | 41E | 600811 | 24673 | 167 | 15 | 63 | 39 | 14 | 13 | 0 | 4 | ND | 2.842 |
| 030 | 9 | 46 | 35.986 | 2210 | 20 | 23.95N | 40 | 35.55E | 20 | 0N | 43E | 600980 | 24672 | 167 | 17 | 63 | 47 | 14 | 11 | 0 | 4 | ND | 2.843 |
| 031 | 9 | 46 | 38.205 | 2219 | 20 | 15.13N | 40 | 37.66E | 19 | 51N | 45E | 601153 | 24672 | 167 | 18 | 63 | 55 | 14 | 9 | 0 | 4 | ND | 2.832 |
| 032 | 9 | 46 | 40.420 | 2215 | 20 | 6.33N | 40 | 39.76E | 19 | 42N | 47E | 601327 | 24672 | 167 | 19 | 64 | 4 | 14 | 7 | 0 | 2 | ND | 2.837 |
| 033 | 9 | 46 | 42.636 | 2215 | 19 | 57.52N | 40 | 41.86E | 19 | 34N | 49E | 601504 | 24671 | 167 | 20 | 64 | 12 | 14 | 4 | 0 | 1 | ND | 2.837 |
| 034 | 9 | 46 | 44.851 | 2215 | 19 | 48.71N | 40 | 43.95E | 19 | 25N | 51E | 601685 | 24671 | 167 | 21 | 64 | 20 | 14 | 4 | 0 | 1 | ND | 2.837 |

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84868-64

| PASS 1270 FWD | | | SMAR65 | | | FRAME EPHMERIS | | | MISSION 1017-2 | | | ID 43 | | | LIST DATE 10MAY65 | | | PAGE 56 | | | | | |
|---------------|--------|------|---------------|------------|----------------|----------------|-------|--------|----------------|--------|--------|---------|---------|---------|-------------------|---------|---------|---------|---------|---------|------|--|--|
| CAMERA NADR | | | FORMAT CENTER | | | ALTITUDE VELOC | | | AZIMUTH SUN/ | | | PITCH | | | ROLL | | | YAW | | | SCAN | | |
| FRM | Z TIME | DTIM | LAT | DEG MIN | LONG | DEG MIN | LONG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | DEG MIN | DEG MIN | DEG MIN | DEG MIN | DEG MIN | DEG MIN | RATE | | |
| HR MI | SEC | MILS | | | | | | | | | | | | | | | | | | | | | |
| 1 20 10 | 50.283 | 0 | 38 28.66N | 123 21.65W | 38 5N 123 10W | 598492 | 24675 | 163 32 | 45 53 | 14 30 | 0 16 | ND | 2.060 | | | | | | | | | | |
| 2 20 10 | 53.333 | 3050 | 38 16.77N | 123 17.18W | 37 53N 123 6W | 598344 | 24676 | 163 32 | 46 5 | 14 31 | 0 17 | ND | 2.060 | | | | | | | | | | |
| 3 20 10 | 55.862 | 2529 | 38 6.91N | 123 13.49W | 37 43N 123 2W | 598223 | 24676 | 163 35 | 46 15 | 14 32 | 0 17 | ND | 2.484 | | | | | | | | | | |
| 4 20 10 | 58.217 | 2355 | 37 57.72N | 123 10.08W | 37 34N 122 59W | 598114 | 24676 | 163 38 | 46 25 | 14 34 | 0 17 | ND | 2.668 | | | | | | | | | | |
| 5 20 11 | 0.523 | 2306 | 37 48.72N | 123 6.75W | 37 25N 122 56W | 598009 | 24677 | 163 41 | 46 34 | 14 35 | 0 17 | ND | 2.725 | | | | | | | | | | |
| 6 20 11 | 2.763 | 2239 | 37 39.99N | 123 3.53W | 37 16N 122 52W | 597910 | 24677 | 163 44 | 46 43 | 14 37 | 0 17 | ND | 2.806 | | | | | | | | | | |
| 7 20 11 | 4.997 | 2235 | 37 31.26N | 123 0.33W | 37 7N 122 49W | 597813 | 24677 | 163 46 | 46 52 | 14 38 | 0 17 | ND | 2.811 | | | | | | | | | | |
| 8 20 11 | 7.232 | 2235 | 37 22.54N | 122 57.15W | 36 58N 122 46W | 597719 | 24677 | 163 49 | 47 1 | 14 39 | 0 17 | ND | 2.811 | | | | | | | | | | |
| 9 20 11 | 9.462 | 2230 | 37 13.83N | 122 53.99W | 36 50N 122 43W | 597627 | 24677 | 163 51 | 47 10 | 14 40 | 0 17 | ND | 2.818 | | | | | | | | | | |
| 10 20 11 | 11.697 | 2235 | 37 5.10N | 122 50.84W | 36 41N 122 40W | 597537 | 24678 | 163 54 | 47 19 | 14 41 | 0 17 | ND | 2.811 | | | | | | | | | | |
| 11 20 11 | 13.917 | 2220 | 36 56.42N | 122 47.72W | 36 32N 122 37W | 597450 | 24678 | 163 57 | 47 28 | 14 42 | 0 17 | ND | 2.830 | | | | | | | | | | |
| 12 20 11 | 16.147 | 2230 | 36 47.70N | 122 44.60W | 36 23N 122 34W | 597364 | 24678 | 163 59 | 47 37 | 14 43 | 0 17 | ND | 2.818 | | | | | | | | | | |
| 13 20 11 | 18.372 | 2225 | 36 39.01N | 122 41.51W | 36 15N 122 31W | 597282 | 24678 | 164 2 | 47 46 | 14 44 | 0 16 | ND | 2.824 | | | | | | | | | | |
| 14 20 11 | 20.592 | 2220 | 36 30.33N | 122 38.43W | 36 6N 122 28W | 597201 | 24679 | 164 4 | 47 54 | 14 45 | 0 16 | ND | 2.830 | | | | | | | | | | |
| 15 20 11 | 22.817 | 2225 | 36 21.62N | 122 35.36W | 35 57N 122 25W | 597123 | 24679 | 164 7 | 48 3 | 14 46 | 0 16 | ND | 2.824 | | | | | | | | | | |
| 16 20 11 | 25.037 | 2220 | 36 12.94N | 122 32.31W | 35 49N 122 22W | 597047 | 24679 | 164 9 | 48 12 | 14 46 | 0 16 | ND | 2.830 | | | | | | | | | | |
| 17 20 11 | 27.257 | 2220 | 36 4.25N | 122 29.28W | 35 40N 122 19W | 596974 | 24679 | 164 12 | 48 21 | 14 47 | 0 16 | ND | 2.830 | | | | | | | | | | |
| 18 20 11 | 29.478 | 2220 | 35 55.56N | 122 26.25W | 35 31N 122 16W | 596902 | 24679 | 164 14 | 48 30 | 14 47 | 0 16 | ND | 2.830 | | | | | | | | | | |
| 19 20 11 | 31.697 | 2220 | 35 46.87N | 122 23.24W | 35 22N 122 13W | 596833 | 24679 | 164 16 | 48 39 | 14 48 | 0 15 | ND | 2.830 | | | | | | | | | | |

TOP SECRET

HANDI F VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

TOP SECRET

| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | DEG | MI | DEG | SUN/ | PITCH | ROLL | DEG | MIN | DEG | MIN | YAW | SCAN | | | | | | | | | | | | | | | | | | | | | | | | |
|------|------|---------------|-----|--------------|-----|--------|-----|--------|-----|-----|-----|------|----------|-------|-----|----|-----|------|-------|------|-----|-----|-----------|----------|--------|------|----|-------------------|--|--|--|------|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 1380 | FWD | 6MAR65 | | CAMERA NADIR | | | | | | | | | | | | | | | | | | | EPHEMERIS | MISSIXON | 1817-2 | ID | 43 | LIST DATE 18MAY65 | | | | PAGE | 57 | | | | | | | | | | | | | | | | | |
| 2 | TIME | FORMAT CENTER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 5 | 994 | 0 | 68 | 7.99N | 141 | 36.32E | 67 | 46N | 142 | 29E | 666444 | 24514 | 137 | 32 | 13 | 10 | 14 | 54 | -0 | 16 | ND | ND | 1.910 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 9 | 283 | 3389 | 67 | 58.21N | 142 | 0.09E | 67 | 36N | 142 | 29E | 666744 | 24516 | 137 | 55 | 13 | 23 | 14 | 57 | -0 | 17 | ND | ND | 1.910 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 12 | 038 | 2755 | 67 | 49.97N | 142 | 19.74E | 67 | 28N | 143 | 11E | 665162 | 24517 | 138 | 15 | 13 | 35 | 15 | 0 | -0 | 17 | ND | ND | 2.281 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 14 | 629 | 2590 | 67 | 42.18N | 142 | 38.00E | 67 | 20N | 143 | 29E | 664615 | 24519 | 138 | 33 | 13 | 45 | 15 | 3 | -0 | 18 | ND | ND | 2.426 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 17 | 164 | 2536 | 67 | 34.52N | 142 | 55.67E | 67 | 12N | 143 | 46E | 664082 | 24520 | 138 | 50 | 13 | 55 | 15 | 5 | -0 | 19 | ND | ND | 2.478 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 19 | 634 | 2469 | 67 | 27.03N | 143 | 12.70E | 67 | 5N | 144 | 3E | 663564 | 24521 | 139 | 7 | 14 | 4 | 15 | 8 | -0 | 19 | ND | ND | 2.545 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 22 | 090 | 2456 | 67 | 19.55N | 143 | 29.44E | 66 | 57N | 144 | 19E | 663850 | 24522 | 139 | 24 | 14 | 15 | 15 | 10 | -0 | 20 | ND | ND | 2.558 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 24 | 544 | 2454 | 67 | 12.04N | 143 | 46.00E | 66 | 49N | 144 | 35E | 662538 | 24523 | 139 | 40 | 14 | 25 | 15 | 12 | -0 | 20 | ND | ND | 2.560 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 26 | 988 | 2445 | 67 | 4.53N | 144 | 2.31E | 66 | 42N | 144 | 51E | 662028 | 24525 | 139 | 56 | 14 | 35 | 15 | 14 | -0 | 20 | ND | ND | 2.570 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 29 | 434 | 2445 | 66 | 56.99N | 144 | 18.46E | 66 | 34N | 145 | 7E | 661521 | 24526 | 140 | 12 | 14 | 45 | 15 | 16 | -0 | 20 | ND | ND | 2.570 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 31 | 868 | 2435 | 66 | 49.45N | 144 | 34.37E | 66 | 26N | 145 | 22E | 661017 | 24527 | 140 | 28 | 14 | 55 | 15 | 18 | -0 | 19 | ND | ND | 2.580 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 34 | 299 | 2430 | 66 | 41.98N | 144 | 50.08E | 66 | 19N | 145 | 38E | 660515 | 24528 | 140 | 44 | 15 | 5 | 15 | 20 | -0 | 19 | ND | ND | 2.586 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 36 | 720 | 2421 | 66 | 34.34N | 145 | 5.56E | 66 | 11N | 145 | 53E | 660017 | 24529 | 140 | 59 | 15 | 15 | 15 | 21 | -0 | 18 | ND | ND | 2.595 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 39 | 145 | 2425 | 66 | 26.75N | 145 | 20.91E | 66 | 3N | 146 | 8E | 659520 | 24530 | 141 | 29 | 15 | 24 | 15 | 23 | -0 | 17 | ND | ND | 2.591 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 41 | 559 | 2414 | 66 | 19.17N | 145 | 36.03E | 65 | 56N | 146 | 22E | 659025 | 24532 | 141 | 14 | 15 | 34 | 15 | 23 | -0 | 15 | ND | ND | 2.603 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 43 | 974 | 2415 | 66 | 11.55N | 145 | 51.00E | 65 | 48N | 146 | 37E | 658533 | 24533 | 141 | 44 | 15 | 44 | 15 | 24 | -0 | 14 | ND | ND | 2.602 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 46 | 385 | 2411 | 66 | 3.92N | 146 | 5.00E | 65 | 40N | 146 | 51E | 658042 | 24534 | 141 | 58 | 15 | 53 | 15 | 24 | -0 | 12 | ND | ND | 2.606 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 48 | 795 | 2410 | 65 | 56.27N | 146 | 20.43E | 65 | 33N | 147 | 6E | 657553 | 24535 | 142 | 13 | 16 | 3 | 15 | 24 | -0 | 10 | ND | ND | 2.607 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 51 | 283 | 2409 | 65 | 48.60N | 146 | 34.90E | 65 | 25N | 147 | 20E | 657066 | 24536 | 142 | 27 | 16 | 13 | 15 | 24 | -0 | 9 | ND | ND | 2.608 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 53 | 604 | 2400 | 65 | 40.93N | 146 | 49.18E | 65 | 17N | 147 | 33E | 656581 | 24537 | 142 | 41 | 16 | 22 | 15 | 23 | -0 | 8 | ND | ND | 2.618 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 55 | 998 | 2395 | 65 | 33.25N | 147 | 3.27E | 65 | 10N | 147 | 47E | 656100 | 24538 | 142 | 55 | 16 | 42 | 15 | 23 | -0 | 7 | ND | ND | 2.623 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 58 | 398 | 2400 | 65 | 25.53N | 147 | 17.26E | 65 | 2N | 148 | 1E | 655618 | 24539 | 143 | 9 | 16 | 32 | 15 | 22 | -0 | 6 | ND | ND | 2.618 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 58 | 794 | 2395 | 65 | 17.08N | 147 | 31.08E | 64 | 54N | 148 | 14E | 655139 | 24541 | 143 | 23 | 16 | 51 | 15 | 21 | -0 | 5 | ND | ND | 2.623 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 3 | 184 | 2390 | 65 | 10.07N | 147 | 44.72E | 64 | 47N | 148 | 27E | 654663 | 24542 | 143 | 36 | 17 | 1 | 15 | 20 | -0 | 5 | ND | ND | 2.629 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 5 | 568 | 2385 | 65 | 2.33N | 147 | 58.20E | 64 | 39N | 148 | 40E | 654188 | 24543 | 143 | 49 | 17 | 10 | 15 | 19 | -0 | 5 | ND | ND | 2.634 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 7 | 959 | 2390 | 64 | 54.55N | 148 | 11.58E | 64 | 31N | 148 | 53E | 653715 | 24544 | 144 | 3 | 17 | 20 | 15 | 18 | -0 | 5 | ND | ND | 2.629 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 10 | 344 | 2385 | 64 | 46.77N | 148 | 24.79E | 64 | 23N | 149 | 6E | 653244 | 24545 | 144 | 16 | 17 | 30 | 15 | 17 | -0 | 4 | ND | ND | 2.634 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 12 | 724 | 2380 | 64 | 38.98N | 148 | 37.84E | 64 | 15N | 149 | 18E | 652775 | 24546 | 144 | 29 | 17 | 39 | 15 | 15 | -0 | 4 | ND | ND | 2.640 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 15 | 100 | 2376 | 64 | 31.18N | 148 | 50.75E | 64 | 8N | 149 | 31E | 652308 | 24547 | 144 | 41 | 17 | 49 | 15 | 14 | -0 | 3 | ND | ND | 2.644 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 17 | 479 | 2375 | 64 | 23.36N | 149 | 3.54E | 64 | 0N | 149 | 43E | 651843 | 24548 | 144 | 54 | 17 | 58 | 15 | 13 | -0 | 3 | ND | ND | 2.644 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 19 | 854 | 2375 | 64 | 15.52N | 149 | 16.18E | 63 | 52N | 149 | 55E | 651388 | 24549 | 145 | 6 | 18 | 8 | 15 | 11 | -0 | 2 | ND | ND | 2.646 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 22 | 224 | 2370 | 64 | 7.68N | 149 | 28.68E | 63 | 44N | 150 | 8E | 650919 | 24550 | 145 | 19 | 18 | 17 | 15 | 10 | -0 | 1 | ND | ND | 2.651 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 24 | 594 | 2370 | 63 | 59.82N | 149 | 41.05E | 63 | 36N | 150 | 20E | 650459 | 24552 | 145 | 31 | 18 | 27 | 15 | 9 | -0 | 1 | ND | ND | 2.651 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 26 | 964 | 2370 | 63 | 51.94N | 149 | 53.30E | 63 | 28N | 150 | 31E | 650001 | 24553 | 145 | 43 | 18 | 36 | 15 | 8 | -0 | 2 | ND | ND | 2.651 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 29 | 328 | 2365 | 63 | 44.07N | 150 | 5.41E | 63 | 21N | 150 | 43E | 649546 | 24554 | 145 | 55 | 18 | 46 | 15 | 7 | -0 | 4 | ND | ND | 2.657 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 31 | 693 | 2365 | 63 | 36.16N | 150 | 17.40E | 63 | 13N | 150 | 55E | 649091 | 24555 | 146 | 7 | 18 | 55 | 15 | 6 | -0 | 6 | ND | ND | 2.657 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 34 | 054 | 2360 | 63 | 28.26N | 150 | 29.25E | 63 | 5N | 151 | 6E | 648640 | 24557 | 146 | 18 | 19 | 19 | 15 | 5 | -0 | 7 | ND | ND | 2.662 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 36 | 413 | 2360 | 63 | 20.34N | 150 | 48.98E | 62 | 57N | 151 | 18E | 648189 | 24558 | 146 | 30 | 19 | 14 | 15 | 4 | -0 | 7 | ND | ND | 2.662 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 38 | 773 | 2360 | 63 | 12.40N | 150 | 52.61E | 62 | 49N | 151 | 29E | 647741 | 24558 | 146 | 41 | 19 | 24 | 15 | 3 | -0 | 8 | ND | ND | 2.662 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 41 | 129 | 2355 | 63 | 4.46N | 151 | 4.10E | 62 | 41N | 151 | 40E | 647295 | 24559 | 146 | 53 | 19 | 33 | 15 | 2 | -0 | 8 | ND | ND | 2.668 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 43 | 479 | 2351 | 62 | 56.52N | 151 | 15.46E | 62 | 33N | 151 | 51E | 646851 | 24560 | 147 | 4 | 19 | 42 | 15 | 1 | -0 | 8 | ND | ND | 2.673 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 45 | 828 | 2349 | 62 | 48.57N | 151 | 26.70E | 62 | 25N | 152 | 2E | 646489 | 24561 | 147 | 15 | 19 | 52 | 15 | 0 | -0 | 8 | ND | ND | 2.675 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 48 | 174 | 2345 | 62 | 40.61N | 151 | 37.83E | 62 | 17N | 152 | 13E | 645968 | 24562 | 147 | 26 | 20 | 1 | 14 | 60 | -0 | 9 | ND | ND | 2.679 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 50 | 520 | 2346 | 62 | 32.64N | 151 | 48.85E | 62 | 9N | 152 | 24E | 645530 | 24563 | 147 | 37 | 20 | 11 | 14 | 59 | -0 | 9 | ND | ND | 2.678 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 32 | 52 | 863 | 2344 | 62 | 24.65N | 151 | 59.75E | 62 | 1N | 152 | 34E | 645093 | 24564 | 147 | 47 | 20 | 20 | 14 | 59 | -0 | 8 | ND | ND | 2.681 | | | | | | | | | | | | | | | | | | | | | | | | | |

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| FRM | Z TIME | DTIM | CAMERA NADIR | | | FORMAT CENTER | | | ALTITUDE | | | AZIMUTH SUN/ | | | PITCH | | ROLL | | YAW | | SCAN | | | |
|-----|--------|------|--------------|------|------|---------------|-----|--------|----------|-----|-----|--------------|--------|-------|-------|-----|------|-----|-----|-----|------|---|----|-------|
| HR | MI | SEC. | DEG | MIN | LONG | DEG | MIN | LONG | FEET | F/S | DEG | MI | DEG | MI | DEG | MIN | DEG | MIN | DEG | MIN | RATE | | | |
| 46 | 0 | 33 | 55.203 | 2340 | 62 | 16.66N | 152 | 10.54E | 61 | 53N | 152 | 44E | 644659 | 24565 | 147 | 58 | 20 | 30 | 14 | 58 | 0 | 8 | ND | 2.685 |
| 47 | 0 | 33 | 57.539 | 2336 | 62 | 0.67N | 152 | 21.21E | 61 | 45N | 152 | 55E | 644227 | 24566 | 148 | 8 | 20 | 39 | 14 | 58 | 0 | 7 | ND | 2.690 |
| 48 | 0 | 33 | 59.879 | 2339 | 62 | 0.65N | 152 | 31.81E | 61 | 37N | 153 | 5E | 643795 | 24567 | 148 | 19 | 20 | 48 | 14 | 58 | 0 | 7 | ND | 2.686 |
| 49 | 0 | 34 | 2.214 | 2335 | 61 | 52.64N | 152 | 42.28E | 61 | 29N | 153 | 15E | 643366 | 24568 | 148 | 29 | 20 | 58 | 14 | 58 | 0 | 6 | ND | 2.691 |
| 50 | 0 | 34 | 4.549 | 2335 | 61 | 44.68N | 152 | 52.65E | 61 | 21N | 153 | 25E | 642939 | 24569 | 148 | 39 | 21 | 7 | 14 | 58 | 0 | 6 | ND | 2.691 |
| 51 | 0 | 34 | 6.879 | 2330 | 61 | 36.57N | 153 | 2.91E | 61 | 13N | 153 | 35E | 642514 | 24570 | 148 | 49 | 21 | 17 | 14 | 58 | 0 | 5 | ND | 2.697 |
| 52 | 0 | 34 | 9.209 | 2330 | 61 | 28.53N | 153 | 13.08E | 61 | 5N | 153 | 45E | 642090 | 24571 | 148 | 59 | 21 | 26 | 14 | 57 | 0 | 4 | ND | 2.697 |
| 53 | 0 | 34 | 11.533 | 2325 | 61 | 20.49N | 153 | 23.13E | 60 | 57N | 153 | 55E | 641670 | 24572 | 149 | 9 | 21 | 35 | 14 | 57 | 0 | 3 | ND | 2.702 |
| 54 | 0 | 34 | 13.858 | 2325 | 61 | 12.43N | 153 | 33.10E | 60 | 49N | 154 | 4E | 641249 | 24573 | 149 | 19 | 21 | 45 | 14 | 57 | 0 | 3 | ND | 2.702 |
| 55 | 0 | 34 | 16.184 | 2325 | 61 | 4.36N | 153 | 42.97E | 60 | 40N | 154 | 14E | 640832 | 24574 | 149 | 29 | 21 | 54 | 14 | 56 | 0 | 2 | ND | 2.702 |
| 56 | 0 | 34 | 18.514 | 2330 | 60 | 56.26N | 153 | 52.78E | 60 | 32N | 154 | 23E | 640414 | 24575 | 149 | 38 | 22 | 3 | 14 | 55 | 0 | 1 | ND | 2.697 |
| 57 | 0 | 34 | 20.828 | 2315 | 60 | 48.19N | 154 | 2.44E | 60 | 24N | 154 | 33E | 640001 | 24576 | 149 | 48 | 22 | 13 | 14 | 55 | -0 | 1 | ND | 2.714 |
| 58 | 0 | 34 | 23.148 | 2320 | 60 | 40.18N | 154 | 12.03E | 60 | 16N | 154 | 42E | 639589 | 24577 | 149 | 57 | 22 | 22 | 14 | 54 | -0 | 2 | ND | 2.708 |
| 59 | 0 | 34 | 25.469 | 2320 | 60 | 31.99N | 154 | 21.54E | 60 | 8N | 154 | 51E | 639178 | 24578 | 150 | 6 | 22 | 31 | 14 | 52 | -0 | 3 | ND | 2.708 |
| 60 | 0 | 34 | 27.778 | 2310 | 60 | 23.91N | 154 | 30.93E | 60 | 0N | 155 | 0E | 638770 | 24579 | 150 | 15 | 22 | 41 | 14 | 51 | -0 | 4 | ND | 2.720 |
| 61 | 0 | 34 | 30.095 | 2316 | 60 | 15.79N | 154 | 40.26E | 59 | 52N | 155 | 9E | 638363 | 24580 | 150 | 25 | 22 | 50 | 14 | 49 | -0 | 5 | ND | 2.713 |
| 62 | 0 | 34 | 32.420 | 2325 | 60 | 7.62N | 154 | 49.54E | 59 | 44N | 155 | 18E | 637956 | 24581 | 150 | 34 | 22 | 59 | 14 | 48 | -0 | 7 | ND | 2.702 |

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| FRM | Z TIME | HR MI | SEC | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-----|--------|--------|-----|-------|------------|------------|--------|---------|----------|-------|---------|--------|---------|---------|---------|-------|
| | | | | MILS | LAT | LONG | LAT | LONG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RAT |
| 1 | 1 59 | 0.093 | | 0 | 74 33.044N | 87 36.21E | 74 24N | 89 24E | 705902 | 24423 | 106 19 | 1 24 | 14 33 | -0 6 | ND | 1.790 |
| 2 | 1 59 | 3.603 | | 3510 | 74 29.08N | 88 26.58E | 74 20N | 90 14E | 785045 | 24425 | 107 9 | 1 38 | 14 36 | -0 6 | ND | 1.790 |
| 3 | 1 59 | 6.563 | | 2961 | 74 25.43N | 89 8.72E | 74 16N | 90 56E | 784322 | 24426 | 107 51 | 1 50 | 14 38 | -0 6 | ND | 2.122 |
| 4 | 1 59 | 9.372 | | 2809 | 74 21.92N | 89 48.40E | 74 12N | 91 35E | 7803639 | 24428 | 108 31 | 2 1 | 14 40 | -0 6 | ND | 2.237 |
| 5 | 1 59 | 12.112 | | 2700 | 74 18.38N | 90 26.84E | 74 8N | 92 12E | 782973 | 24430 | 109 9 | 2 12 | 14 42 | -0 6 | ND | 2.297 |
| 6 | 1 59 | 14.813 | | 2700 | 74 14.78N | 91 4.43E | 74 4N | 92 49E | 782318 | 24431 | 109 47 | 2 23 | 14 44 | -0 7 | ND | 2.327 |
| 7 | 1 59 | 17.503 | | 2690 | 74 11.08N | 91 41.59E | 74 0N | 93 26E | 781667 | 24433 | 110 24 | 2 34 | 14 45 | -0 7 | ND | 2.336 |
| 8 | 1 59 | 20.179 | | 2676 | 74 7.30N | 92 18.27E | 73 56N | 94 2E | 781021 | 24434 | 111 0 | 2 45 | 14 46 | -0 7 | ND | 2.348 |
| 9 | 1 59 | 22.848 | | 2669 | 74 3.41N | 92 54.57E | 73 52N | 94 37E | 780376 | 24436 | 111 36 | 2 56 | 14 47 | -0 8 | ND | 2.354 |
| 10 | 1 59 | 25.508 | | 2660 | 73 59.44N | 93 38.46E | 73 48N | 95 12E | 699736 | 24437 | 112 12 | 3 6 | 14 47 | -0 8 | ND | 2.362 |
| 11 | 1 59 | 28.162 | | 2655 | 73 55.37N | 94 5.98E | 73 43N | 95 47E | 699097 | 24439 | 112 48 | 3 17 | 14 47 | -0 9 | ND | 2.367 |
| 12 | 1 59 | 30.808 | | 2645 | 73 51.22N | 94 41.08E | 73 39N | 96 21E | 698462 | 24440 | 113 23 | 3 27 | 14 47 | -0 10 | ND | 2.375 |
| 13 | 1 59 | 33.447 | | 2640 | 73 46.97N | 95 15.80E | 73 34N | 96 54E | 697798 | 24441 | 113 57 | 3 38 | 14 46 | -0 11 | ND | 2.380 |
| 14 | 1 59 | 36.088 | | 2640 | 73 42.63N | 95 50.24E | 73 30N | 97 28E | 697198 | 24443 | 114 32 | 3 49 | 14 45 | -0 12 | ND | 2.380 |
| 15 | 1 59 | 38.723 | | 2635 | 73 38.20N | 96 24.30E | 73 25N | 98 0E | 696569 | 24444 | 115 5 | 3 59 | 14 44 | -0 13 | ND | 2.385 |
| 16 | 1 59 | 41.349 | | 2626 | 73 33.70N | 96 57.94E | 73 20N | 98 33E | 695944 | 24446 | 115 39 | 4 10 | 14 41 | -0 14 | ND | 2.393 |
| 17 | 1 59 | 43.969 | | 2620 | 73 29.11N | 97 31.21E | 73 16N | 99 5E | 695321 | 24447 | 116 12 | 4 20 | 14 39 | -0 15 | ND | 2.398 |
| 18 | 1 59 | 46.588 | | 2619 | 73 24.43N | 98 4.16E | 73 11N | 99 37E | 694699 | 24449 | 116 45 | 4 31 | 14 38 | -0 16 | ND | 2.399 |
| 19 | 1 59 | 49.202 | | 2615 | 73 19.67N | 98 36.74E | 73 6N | 100 8E | 694080 | 24450 | 117 17 | 4 41 | 14 37 | -0 16 | ND | 2.403 |
| 20 | 1 59 | 51.813 | | 2611 | 73 14.83N | 99 8.98E | 73 1N | 100 39E | 693462 | 24452 | 117 50 | 4 51 | 14 37 | -0 17 | ND | 2.406 |
| 21 | 1 59 | 54.419 | | 2605 | 73 9.91N | 99 48.84E | 72 55N | 101 10E | 692848 | 24453 | 118 21 | 5 2 | 14 37 | -0 18 | ND | 2.412 |
| 22 | 1 59 | 57.022 | | 2604 | 73 4.92N | 100 12.37E | 72 50N | 101 41E | 692234 | 24454 | 118 53 | 5 12 | 14 37 | -0 18 | ND | 2.413 |
| 23 | 1 59 | 59.622 | | 2600 | 72 59.84N | 100 43.54E | 72 45N | 102 11E | 691623 | 24456 | 119 24 | 5 23 | 14 37 | -0 18 | ND | 2.417 |
| 24 | 2 0 | 2.218 | | 2595 | 72 54.70N | 101 14.37E | 72 40N | 102 41E | 691014 | 24457 | 119 55 | 5 33 | 14 37 | -0 18 | ND | 2.421 |
| 25 | 2 0 | 4.803 | | 2585 | 72 49.49N | 101 44.76E | 72 34N | 103 10E | 690409 | 24459 | 120 25 | 5 44 | 14 37 | -0 18 | ND | 2.431 |
| 26 | 2 0 | 7.393 | | 2590 | 72 44.20N | 102 14.91E | 72 29N | 103 40E | 689803 | 24460 | 120 55 | 5 54 | 14 37 | -0 18 | ND | 2.426 |
| 27 | 2 0 | 9.978 | | 2585 | 72 38.83N | 102 44.69E | 72 23N | 104 9E | 689200 | 24461 | 121 25 | 6 4 | 14 38 | -0 18 | ND | 2.431 |
| 28 | 2 0 | 12.558 | | 2580 | 72 33.41N | 103 14.12E | 72 17N | 104 37E | 688600 | 24463 | 121 54 | 6 15 | 14 38 | -0 19 | ND | 2.435 |
| 29 | 2 0 | 15.133 | | 2575 | 72 27.91N | 103 43.19E | 72 12N | 105 5E | 688001 | 24464 | 122 23 | 6 25 | 14 39 | -0 19 | ND | 2.440 |
| 30 | 2 0 | 17.702 | | 2570 | 72 22.36N | 104 11.90E | 72 6N | 105 33E | 687405 | 24465 | 122 51 | 6 36 | 14 40 | -0 19 | ND | 2.445 |
| 31 | 2 0 | 20.272 | | 2570 | 72 16.73N | 104 40.32E | 72 0N | 106 1E | 686811 | 24467 | 123 20 | 6 46 | 14 41 | -0 20 | ND | 2.445 |
| 32 | 2 0 | 22.843 | | 2570 | 72 11.03N | 105 8.45E | 71 54N | 106 28E | 686217 | 24468 | 123 48 | 6 56 | 14 43 | -0 21 | ND | 2.445 |
| 33 | 2 0 | 25.402 | | 2560 | 72 5.29N | 105 36.16E | 71 48N | 106 55E | 685627 | 24470 | 124 15 | 7 7 | 14 44 | -0 21 | ND | 2.445 |
| 34 | 2 0 | 27.957 | | 2555 | 71 59.49N | 106 3.53E | 71 42N | 107 21E | 685040 | 24471 | 124 43 | 7 17 | 14 46 | -0 22 | ND | 2.459 |
| 35 | 2 0 | 30.513 | | 2555 | 71 53.62N | 106 30.63E | 71 36N | 107 48E | 684453 | 24472 | 125 10 | 7 27 | 14 48 | -0 23 | ND | 2.459 |
| 36 | 2 0 | 33.067 | | 2555 | 71 47.69N | 107 57.42E | 71 30N | 108 14E | 683868 | 24474 | 125 36 | 7 38 | 14 50 | -0 24 | ND | 2.459 |
| 37 | 2 0 | 35.612 | | 2545 | 71 41.71N | 108 23.83E | 71 24N | 108 39E | 683285 | 24475 | 126 3 | 7 48 | 14 52 | -0 25 | ND | 2.469 |
| 38 | 2 0 | 38.157 | | 2545 | 71 35.67N | 107 49.95E | 71 17N | 109 5E | 682706 | 24476 | 126 29 | 7 58 | 14 54 | -0 26 | ND | 2.469 |
| 39 | 2 0 | 40.697 | | 2540 | 71 29.58N | 108 15.74E | 71 11N | 109 30E | 682128 | 24478 | 126 54 | 8 8 | 14 56 | -0 28 | ND | 2.474 |
| 40 | 2 1 | 54.537 | | 73840 | 68 9.64N | 118 53.10E | 67 48N | 119 44E | 665898 | 24515 | 137 28 | 13 5 | 14 34 | -0 29 | ND | 0.085 |
| 41 | 2 1 | 57.768 | | 3230 | 68 0.84N | 119 16.51E | 67 39N | 120 6E | 665214 | 24517 | 137 51 | 13 18 | 14 33 | -0 29 | ND | 1.945 |
| 42 | 2 2 | 0.498 | | 2731 | 67 51.88N | 119 36.04E | 67 30N | 120 25E | 664638 | 24518 | 138 10 | 13 29 | 14 32 | -0 29 | ND | 2.301 |
| 43 | 2 2 | 3.093 | | 2594 | 67 44.09N | 119 54.38E | 67 23N | 120 43E | 664093 | 24520 | 138 28 | 13 39 | 14 32 | -0 30 | ND | 2.482 |
| 44 | 2 2 | 5.617 | | 2525 | 67 36.48N | 120 12.03E | 67 15N | 121 0E | 663564 | 24521 | 138 46 | 13 49 | 14 31 | -0 30 | ND | 2.488 |
| 45 | 2 2 | 8.107 | | 2490 | 67 28.93N | 120 29.24E | 67 7N | 121 16E | 663043 | 24522 | 139 3 | 13 59 | 14 31 | -0 30 | ND | 2.523 |

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| FRM | HR | MI | SEC | DTIM | DEG MIN | DEG | LAT | DEG MIN | DEG | LONG | ALTITUDE | VELOC | DEG MI | DEG MI | PITCH | ROLL | YAW | SCAN | |
|-----|------|----|-------|------|---------|--------|-----|---------|-----|--------|----------|-------|--------|--------|---------|---------|---------|------|-------|
| 2 | TIME | ° | MILES | | | | | | | | FEET | F/S | | | DEG MIN | DEG MIN | DEG MIN | RATE | |
| 46 | 2 | 10 | 577 | 2470 | 67 | 21.41N | 120 | 46 | 13E | 662528 | 24523 | 139 | 20 | 14 | 9 | -0 | 30 | ND | 2.544 |
| 47 | 2 | 13 | 037 | 2460 | 67 | 13.89N | 121 | 2 | 77E | 662017 | 24524 | 139 | 36 | 14 | 19 | -0 | 31 | ND | 2.554 |
| 48 | 2 | 15 | 492 | 2455 | 67 | 6.36N | 121 | 19 | 20E | 661508 | 24526 | 139 | 52 | 14 | 29 | -0 | 31 | ND | 2.559 |
| 49 | 2 | 17 | 938 | 2445 | 66 | 58.82N | 121 | 35 | 39E | 661002 | 24527 | 140 | 8 | 14 | 39 | -0 | 32 | ND | 2.570 |
| 50 | 2 | 20 | 378 | 2440 | 66 | 51.27N | 121 | 51 | 37E | 660499 | 24528 | 140 | 24 | 14 | 49 | -0 | 33 | ND | 2.575 |
| 51 | 2 | 22 | 813 | 2435 | 66 | 43.71N | 122 | 7 | 15E | 659958 | 24529 | 140 | 40 | 14 | 58 | -0 | 34 | ND | 2.580 |
| 52 | 2 | 25 | 242 | 2430 | 66 | 36.14N | 122 | 22 | 73E | 659500 | 24530 | 140 | 55 | 15 | 8 | -0 | 34 | ND | 2.586 |
| 53 | 2 | 27 | 673 | 2430 | 66 | 28.53N | 122 | 38 | 15E | 659003 | 24531 | 141 | 11 | 15 | 18 | -0 | 35 | ND | 2.586 |
| 54 | 2 | 30 | 098 | 2425 | 66 | 20.92N | 122 | 53 | 38E | 658508 | 24533 | 141 | 26 | 15 | 28 | -0 | 35 | ND | 2.591 |
| 55 | 2 | 32 | 518 | 2420 | 66 | 13.30N | 123 | 8 | 42E | 658017 | 24534 | 141 | 41 | 15 | 38 | -0 | 35 | ND | 2.596 |
| 56 | 2 | 34 | 938 | 2420 | 66 | 5.64N | 123 | 23 | 30E | 657526 | 24535 | 141 | 55 | 15 | 47 | -0 | 35 | ND | 2.596 |
| 57 | 2 | 37 | 353 | 2415 | 65 | 57.98N | 123 | 38 | 00E | 657038 | 24536 | 142 | 10 | 15 | 57 | -0 | 35 | ND | 2.602 |
| 58 | 2 | 39 | 763 | 2410 | 65 | 50.31N | 123 | 52 | 51E | 656532 | 24537 | 142 | 24 | 16 | 7 | -0 | 35 | ND | 2.607 |
| 59 | 2 | 42 | 173 | 2410 | 65 | 42.61N | 124 | 6 | 88E | 656038 | 24538 | 142 | 38 | 16 | 16 | -0 | 35 | ND | 2.613 |
| 60 | 2 | 44 | 577 | 2405 | 65 | 34.91N | 124 | 21 | 06E | 655536 | 24539 | 142 | 52 | 16 | 26 | -0 | 35 | ND | 2.613 |
| 61 | 2 | 46 | 982 | 2405 | 65 | 27.18N | 124 | 35 | 11E | 655036 | 24541 | 143 | 6 | 16 | 36 | -0 | 36 | ND | 2.613 |
| 62 | 2 | 49 | 384 | 2401 | 65 | 19.43N | 124 | 48 | 09E | 654538 | 24542 | 143 | 20 | 16 | 46 | -0 | 35 | ND | 2.617 |
| 63 | 2 | 51 | 782 | 2399 | 65 | 11.68N | 125 | 2 | 72E | 654038 | 24543 | 143 | 33 | 16 | 55 | -0 | 36 | ND | 2.619 |
| 64 | 2 | 54 | 178 | 2395 | 65 | 3.91N | 125 | 16 | 29E | 653537 | 24544 | 143 | 47 | 17 | 5 | -0 | 36 | ND | 2.623 |
| 65 | 2 | 56 | 568 | 2391 | 64 | 56.13N | 125 | 29 | 69E | 653036 | 24545 | 144 | 0 | 17 | 15 | -0 | 35 | ND | 2.628 |
| 66 | 2 | 58 | 963 | 2394 | 64 | 48.32N | 125 | 42 | 09E | 652535 | 24546 | 144 | 13 | 17 | 24 | -0 | 35 | ND | 2.625 |
| 67 | 2 | 1 | 348 | 2385 | 64 | 40.52N | 125 | 56 | 09E | 652036 | 24547 | 144 | 29 | 17 | 34 | -0 | 35 | ND | 2.634 |
| 68 | 2 | 3 | 732 | 2385 | 64 | 32.70N | 126 | 9 | 06E | 651536 | 24548 | 144 | 39 | 17 | 44 | -0 | 35 | ND | 2.634 |
| 69 | 2 | 6 | 117 | 2380 | 64 | 17.01N | 126 | 34 | 61E | 651036 | 24549 | 144 | 52 | 17 | 53 | -0 | 35 | ND | 2.640 |
| 70 | 2 | 8 | 497 | 2380 | 64 | 9.14N | 126 | 47 | 18E | 650535 | 24551 | 145 | 17 | 18 | 12 | -0 | 35 | ND | 2.640 |
| 71 | 2 | 10 | 878 | 2375 | 64 | 1.26N | 126 | 59 | 60E | 649954 | 24553 | 145 | 29 | 18 | 22 | -0 | 35 | ND | 2.646 |
| 72 | 2 | 13 | 253 | 2375 | 63 | 53.37N | 127 | 11 | 90E | 649497 | 24554 | 145 | 41 | 18 | 31 | -0 | 35 | ND | 2.646 |
| 73 | 2 | 15 | 628 | 2375 | 63 | 45.48N | 127 | 24 | 05E | 649042 | 24555 | 145 | 53 | 18 | 41 | -0 | 34 | ND | 2.651 |
| 74 | 2 | 17 | 997 | 2370 | 63 | 37.57N | 127 | 36 | 09E | 648539 | 24556 | 146 | 5 | 18 | 51 | -0 | 34 | ND | 2.651 |
| 75 | 2 | 20 | 367 | 2365 | 63 | 29.65N | 127 | 47 | 98E | 648039 | 24557 | 146 | 16 | 19 | 0 | -0 | 34 | ND | 2.657 |
| 76 | 2 | 22 | 732 | 2365 | 63 | 21.71N | 127 | 59 | 77E | 647539 | 24558 | 146 | 28 | 19 | 10 | -0 | 33 | ND | 2.657 |
| 77 | 2 | 25 | 098 | 2365 | 63 | 13.76N | 128 | 11 | 44E | 647042 | 24559 | 146 | 40 | 19 | 19 | -0 | 33 | ND | 2.657 |
| 78 | 2 | 27 | 463 | 2365 | 63 | 5.82N | 128 | 22 | 95E | 646542 | 24560 | 146 | 51 | 19 | 29 | -0 | 32 | ND | 2.667 |
| 79 | 2 | 29 | 818 | 2359 | 62 | 57.85N | 128 | 34 | 37E | 646039 | 24561 | 147 | 2 | 19 | 38 | -0 | 32 | ND | 2.667 |
| 80 | 2 | 32 | 178 | 2356 | 62 | 49.88N | 128 | 45 | 66E | 645542 | 24562 | 147 | 13 | 19 | 48 | -0 | 31 | ND | 2.667 |
| 81 | 2 | 34 | 533 | 2356 | 62 | 41.88N | 128 | 56 | 87E | 645039 | 24563 | 147 | 24 | 19 | 57 | -0 | 30 | ND | 2.663 |
| 82 | 2 | 36 | 893 | 2355 | 62 | 33.88N | 129 | 7 | 94E | 644534 | 24564 | 147 | 35 | 20 | 7 | -0 | 30 | ND | 2.668 |
| 83 | 2 | 39 | 247 | 2355 | 62 | 25.87N | 129 | 18 | 90E | 644038 | 24565 | 147 | 46 | 20 | 16 | -0 | 29 | ND | 2.674 |
| 84 | 2 | 41 | 598 | 2350 | 62 | 17.85N | 129 | 29 | 75E | 643538 | 24566 | 147 | 56 | 20 | 25 | -0 | 27 | ND | 2.674 |
| 85 | 2 | 43 | 947 | 2350 | 62 | 9.81N | 129 | 40 | 50E | 643038 | 24567 | 148 | 7 | 20 | 35 | -0 | 26 | ND | 2.674 |

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TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1320 FWD 6MAR65 FRAME EPHMERIS . MISSION 1017-2 ID 43 LIST DATE 10MAY65 PAGE 61

| FRM | 2 TIME | DTM | CAMERA NADR | FORMAT CENTER | ALTITUDE | VELOC | AZIMUTH | SUNV | PITCH | ROLL | YAW | SCAN |
|-------|-------------|------|-------------|---------------|----------------|----------|---------|-------|--------|----------|--------|-------|
| HR MI | SEC | MINS | DEG MIN | DEG LONG | DEG MIN | DEG LONG | FEET | F/S | DEG MI | DEG SUNV | DEG MI | RATF |
| 1 | 3 32 1.786 | 0 | 67 14.56N | 98 21.08E | 66 52N 99 10E | 10E | 661560 | 24525 | 139 35 | 14 16 | 14 56 | 1.924 |
| 2 | 3 32 5.052 | 3265 | 67 4.54N | 98 43.02E | 66 42N 99 31E | 31E | 660885 | 24527 | 139 56 | 14 30 | 14 56 | 1.924 |
| 3 | 3 32 7.791 | 2740 | 66 56.09N | 99 1.79E | 66 34N 99 49E | 49E | 660322 | 24528 | 140 14 | 14 41 | 14 57 | 2.293 |
| 4 | 3 32 10.377 | 2585 | 66 48.08N | 99 18.66E | 66 26N 100 5E | 5E | 659792 | 24529 | 140 31 | 14 51 | 14 57 | 2.431 |
| 5 | 3 32 12.887 | 2510 | 66 40.27N | 99 34.05E | 66 18N 100 21E | 21E | 659278 | 24531 | 140 47 | 15 1 | 14 58 | 2.503 |
| 6 | 3 32 15.366 | 2480 | 66 32.53N | 99 50.08E | 66 10N 100 36E | 36E | 658772 | 24532 | 141 2 | 15 11 | 14 59 | 2.534 |
| 7 | 3 32 17.831 | 2450 | 66 24.08N | 100 6.24E | 66 2N 100 51E | 51E | 658271 | 24533 | 141 18 | 15 21 | 14 59 | 2.549 |
| 8 | 3 32 20.281 | 2450 | 66 17.09N | 100 21.55E | 66 54N 101 6E | 6E | 657775 | 24534 | 141 33 | 15 31 | 14 60 | 2.565 |
| 9 | 3 32 22.722 | 2440 | 66 9.39N | 100 36.63E | 65 46N 101 21E | 21E | 657281 | 24535 | 141 48 | 15 41 | 15 1 | 2.575 |
| 10 | 3 32 25.156 | 2435 | 66 1.68N | 100 51.53E | 65 39N 101 35E | 35E | 656791 | 24536 | 142 3 | 15 51 | 15 1 | 2.580 |
| 11 | 3 32 27.582 | 2426 | 65 53.97N | 101 6.21E | 65 31N 101 49E | 49E | 656303 | 24538 | 142 17 | 16 0 | 15 1 | 2.590 |
| 12 | 3 32 30.007 | 2424 | 65 46.23N | 101 20.74E | 65 23N 102 3E | 3E | 655817 | 24539 | 142 32 | 16 10 | 15 2 | 2.592 |
| 13 | 3 32 32.427 | 2420 | 65 38.49N | 101 35.08E | 65 15N 102 17E | 17E | 655334 | 24540 | 142 46 | 16 20 | 15 2 | 2.596 |
| 14 | 3 32 34.843 | 2416 | 65 30.74N | 101 49.26E | 65 8N 102 31E | 31E | 654853 | 24541 | 143 0 | 16 30 | 15 3 | 2.601 |
| 15 | 3 32 37.262 | 2419 | 65 22.95N | 102 3.31E | 65 0N 102 45E | 45E | 654372 | 24542 | 143 14 | 16 40 | 15 3 | 2.597 |
| 16 | 3 32 39.672 | 2410 | 65 15.17N | 102 17.17E | 64 52N 102 58E | 58E | 653895 | 24543 | 143 27 | 16 49 | 15 4 | 2.607 |
| 17 | 3 32 42.076 | 2405 | 65 7.38N | 102 30.05E | 64 44N 103 12E | 12E | 653420 | 24544 | 143 41 | 16 59 | 15 4 | 2.613 |
| 18 | 3 32 44.481 | 2405 | 64 59.57N | 102 44.40E | 64 36N 103 25E | 25E | 652948 | 24545 | 143 54 | 17 7 | 15 4 | 2.613 |
| 19 | 3 32 46.887 | 2405 | 64 51.73N | 102 57.81E | 64 28N 103 38E | 38E | 652476 | 24546 | 144 7 | 17 18 | 15 5 | 2.613 |
| 20 | 3 32 49.281 | 2395 | 64 43.91N | 103 11.03E | 64 20N 103 51E | 51E | 652008 | 24548 | 144 20 | 17 28 | 15 5 | 2.623 |
| 21 | 3 32 51.672 | 2390 | 64 36.07N | 103 24.09E | 64 13N 104 3E | 3E | 651542 | 24549 | 144 33 | 17 38 | 15 5 | 2.623 |
| 22 | 3 32 54.066 | 2395 | 64 28.24N | 103 37.05E | 64 5N 104 16E | 16E | 651076 | 24550 | 144 46 | 17 47 | 15 5 | 2.623 |
| 23 | 3 32 56.456 | 2390 | 64 20.31N | 103 49.05E | 63 57N 104 28E | 28E | 650613 | 24551 | 144 59 | 17 57 | 15 6 | 2.629 |
| 24 | 3 32 58.847 | 2390 | 64 12.44N | 104 2.53E | 63 49N 104 41E | 41E | 650152 | 24552 | 145 11 | 18 7 | 15 6 | 2.629 |
| 25 | 3 32 1.231 | 2385 | 64 4.54N | 104 15.05E | 63 41N 104 53E | 53E | 649693 | 24553 | 145 24 | 18 16 | 15 6 | 2.634 |
| 26 | 3 32 3.616 | 2385 | 63 56.63N | 104 27.45E | 63 33N 105 5E | 5E | 649236 | 24554 | 145 36 | 18 26 | 15 6 | 2.634 |
| 27 | 3 32 6.002 | 2385 | 63 48.69N | 104 39.74E | 63 25N 105 17E | 17E | 648779 | 24555 | 145 48 | 18 35 | 15 7 | 2.634 |
| 28 | 3 32 8.377 | 2375 | 63 40.77N | 104 51.05E | 63 17N 105 29E | 29E | 648327 | 24556 | 146 0 | 18 45 | 15 7 | 2.646 |
| 29 | 3 32 10.746 | 2370 | 63 32.84N | 105 3.81E | 63 9N 105 41E | 41E | 647877 | 24557 | 146 12 | 18 55 | 15 7 | 2.651 |
| 30 | 3 32 13.121 | 2375 | 63 24.88N | 105 15.69E | 63 1N 105 52E | 52E | 647427 | 24558 | 146 23 | 19 4 | 15 7 | 2.646 |
| 31 | 3 32 15.496 | 2375 | 63 16.90N | 105 27.46E | 62 53N 106 4E | 4E | 646979 | 24559 | 146 35 | 19 14 | 15 7 | 2.646 |
| 32 | 3 32 17.866 | 2370 | 63 8.92N | 105 39.00E | 62 45N 106 15E | 15E | 646533 | 24560 | 146 46 | 19 23 | 15 7 | 2.651 |
| 33 | 3 32 20.231 | 2365 | 63 0.94N | 105 50.57E | 62 37N 106 26E | 26E | 646090 | 24561 | 146 58 | 19 33 | 15 7 | 2.657 |
| 34 | 3 32 22.602 | 2370 | 62 52.93N | 106 1.98E | 62 29N 106 37E | 37E | 645647 | 24562 | 147 9 | 19 42 | 15 7 | 2.651 |
| 35 | 3 32 24.967 | 2365 | 62 44.91N | 106 13.25E | 62 21N 106 48E | 48E | 645207 | 24563 | 147 20 | 19 52 | 15 6 | 2.657 |
| 36 | 3 32 27.326 | 2360 | 62 36.90N | 106 25.44E | 62 13N 106 59E | 59E | 644769 | 24565 | 147 31 | 20 1 | 15 6 | 2.662 |
| 37 | 3 32 29.682 | 2355 | 62 28.88N | 106 35.41E | 62 5N 107 10E | 10E | 644334 | 24566 | 147 42 | 20 11 | 15 5 | 2.668 |
| 38 | 3 32 32.041 | 2360 | 62 20.83N | 106 46.35E | 61 57N 107 21E | 21E | 643900 | 24567 | 147 52 | 20 20 | 15 4 | 2.662 |
| 39 | 3 32 34.396 | 2355 | 62 12.78N | 106 57.15E | 61 49N 107 31E | 31E | 643467 | 24568 | 148 3 | 20 30 | 15 3 | 2.668 |
| 40 | 3 32 36.746 | 2350 | 62 4.74N | 107 7.05E | 61 41N 107 42E | 42E | 643038 | 24569 | 148 14 | 20 39 | 15 2 | 2.674 |
| 41 | 3 32 39.088 | 2341 | 61 56.70N | 107 18.40E | 61 33N 107 52E | 52E | 642611 | 24570 | 148 24 | 20 49 | 14 60 | 2.684 |
| 42 | 3 32 41.437 | 2349 | 61 48.63N | 107 28.89E | 61 25N 108 2E | 2E | 642184 | 24571 | 148 34 | 20 58 | 14 58 | 2.675 |
| 43 | 3 32 43.781 | 2345 | 61 40.56N | 107 39.26E | 61 17N 108 12E | 12E | 641760 | 24572 | 148 44 | 21 7 | 14 56 | 2.679 |
| 44 | 3 32 46.127 | 2345 | 61 32.46N | 107 49.54E | 61 9N 108 22E | 22E | 641337 | 24573 | 148 54 | 21 17 | 14 55 | 2.679 |
| 45 | 3 32 48.462 | 2335 | 61 24.39N | 107 59.68E | 61 1N 108 32E | 32E | 640918 | 24574 | 149 4 | 21 26 | 14 54 | 2.691 |

TOP SECRET

HANDLE VIA

PASS 132D FWD 6MAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65

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| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|--------|--------|--------|-----------|------------|----------------|----------|-------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILLS | LAT | DEG MIN | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 46 | 3 33 | 50.802 | 2340 | 61 16.29N | 108 9.76E | 60 53N 108 42E | 640499 | 24575 | 149 14 | 21 35 | 14 53 | 0 23 | ND | 2.685 |
| 47 | 3 33 | 53.142 | 2340 | 61 8.17N | 108 19.74E | 60 45N 108 52E | 640082 | 24576 | 149 24 | 21 45 | 14 52 | 0 24 | ND | 2.685 |
| 48 | 3 33 | 55.478 | 2336 | 61 0.06N | 108 29.61E | 60 37N 109 1E | 639667 | 24576 | 149 34 | 21 54 | 14 51 | 0 25 | ND | 2.690 |
| 49 | 3 33 | 57.812 | 2334 | 60 51.93N | 108 39.39E | 60 29N 109 11E | 639254 | 24577 | 149 43 | 22 4 | 14 50 | 0 26 | ND | 2.692 |
| 50 | 3 34 | 0.142 | 2330 | 60 43.81N | 108 49.07E | 60 20N 109 20E | 638844 | 24578 | 149 53 | 22 13 | 14 49 | 0 26 | ND | 2.697 |
| 51 | 3 34 | 2.472 | 2330 | 60 35.67N | 108 50.66E | 60 12N 109 30E | 638435 | 24579 | 150 2 | 22 22 | 14 49 | 0 26 | ND | 2.697 |
| 52 | 3 34 | 4.802 | 2330 | 60 27.52N | 109 8.16E | 60 4N 109 39E | 638027 | 24580 | 150 11 | 22 32 | 14 48 | 0 27 | ND | 2.697 |
| 53 | 3 34 | 7.127 | 2325 | 60 19.38N | 109 17.56E | 59 56N 109 48E | 637622 | 24581 | 150 21 | 22 41 | 14 47 | 0 28 | ND | 2.702 |
| 54 | 3 34 | 9.446 | 2320 | 60 11.24N | 109 26.86E | 59 48N 109 57E | 637219 | 24582 | 150 30 | 22 51 | 14 47 | 0 28 | ND | 2.708 |
| 55 | 3 34 | 11.771 | 2325 | 60 3.07N | 109 36.10E | 59 40N 110 6E | 636817 | 24583 | 150 39 | 23 0 | 14 46 | 0 28 | ND | 2.702 |
| 56 | 3 34 | 14.092 | 2320 | 59 54.90N | 109 45.24E | 59 32N 110 15E | 636418 | 24584 | 150 48 | 23 9 | 14 46 | 0 28 | ND | 2.708 |
| 57 | 3 34 | 16.411 | 2320 | 59 46.72N | 109 54.29E | 59 23N 110 24E | 636020 | 24585 | 150 56 | 23 19 | 14 46 | 0 28 | ND | 2.708 |
| 58 | 3 34 | 18.723 | 2311 | 59 38.56N | 110 3.24E | 59 15N 110 32E | 635625 | 24586 | 151 5 | 23 28 | 14 45 | 0 28 | ND | 2.719 |
| 59 | 3 34 | 21.041 | 2319 | 59 30.37N | 110 12.14E | 59 7N 110 41E | 635230 | 24587 | 151 14 | 23 37 | 14 45 | 0 28 | ND | 2.709 |
| 60 | 3 34 | 23.353 | 2311 | 59 22.18N | 110 20.94E | 58 59N 110 49E | 634839 | 24588 | 151 22 | 23 47 | 14 45 | 0 27 | ND | 2.719 |
| 61 | 3 34 | 25.661 | 2309 | 59 14.00N | 110 29.65E | 58 51N 110 58E | 634449 | 24589 | 151 31 | 23 56 | 14 45 | 0 27 | ND | 2.721 |
| 62 | 3 34 | 27.972 | 2310 | 59 5.79N | 110 38.29E | 58 42N 111 6E | 634062 | 24590 | 151 39 | 24 5 | 14 45 | 0 27 | ND | 2.720 |
| 63 | 3 34 | 30.281 | 2310 | 58 57.58N | 110 46.86E | 58 34N 111 15E | 633675 | 24591 | 151 48 | 24 15 | 14 45 | 0 27 | ND | 2.720 |
| 64 | 3 36 | 1.423 | 91141 | 53 25.91N | 115 35.29E | 53 2N 115 54E | 619776 | 24623 | 156 25 | 30 23 | 14 37 | -0 11 | ND | 0.869 |
| 65 | 3 36 | 4.492 | 3074 | 53 14.52N | 115 43.57E | 52 50N 116 2E | 619354 | 24624 | 156 33 | 30 35 | 14 37 | -0 10 | ND | 2.047 |
| 66 | 3 36 | 7.041 | 2549 | 52 56.12N | 115 56.76E | 52 32N 116 9E | 619009 | 24625 | 156 40 | 30 45 | 14 38 | -0 9 | ND | 2.465 |
| 67 | 3 36 | 9.446 | 2405 | 52 47.43N | 116 2.91E | 52 23N 116 21E | 618683 | 24626 | 156 46 | 30 55 | 14 39 | -0 8 | ND | 2.613 |
| 68 | 3 36 | 11.781 | 2335 | 52 38.86N | 116 8.92E | 52 15N 116 27E | 618370 | 24627 | 156 52 | 31 5 | 14 40 | -0 7 | ND | 2.691 |
| 69 | 3 36 | 14.082 | 2301 | 52 30.35N | 116 14.85E | 52 6N 116 33E | 618063 | 24628 | 157 3 | 31 23 | 14 42 | -0 5 | ND | 2.751 |
| 70 | 3 36 | 16.366 | 2284 | 52 21.89N | 116 20.70E | 51 58N 116 39E | 617761 | 24629 | 157 9 | 31 32 | 14 43 | -0 4 | ND | 2.768 |
| 71 | 3 36 | 18.637 | 2270 | 52 13.44N | 116 26.50E | 51 49N 116 45E | 617462 | 24630 | 157 14 | 31 42 | 14 43 | -0 2 | ND | 2.774 |
| 72 | 3 36 | 20.901 | 2265 | 51 56.59N | 116 32.23E | 51 41N 116 50E | 617166 | 24631 | 157 19 | 31 51 | 14 45 | -0 1 | ND | 2.786 |
| 73 | 3 36 | 23.156 | 2255 | 51 48.16N | 116 43.58E | 51 32N 116 56E | 616872 | 24632 | 157 25 | 32 0 | 14 45 | 0 0 | ND | 2.785 |
| 74 | 3 36 | 25.412 | 2256 | 51 39.74N | 116 49.18E | 51 24N 117 2E | 616580 | 24632 | 157 30 | 32 9 | 14 46 | 0 2 | ND | 2.788 |
| 75 | 3 36 | 27.666 | 2254 | 51 31.34N | 116 54.73E | 51 15N 117 7E | 616290 | 24632 | 157 35 | 32 18 | 14 47 | 0 3 | ND | 2.793 |
| 76 | 3 36 | 29.916 | 2250 | 51 22.90N | 117 0.26E | 50 9N 117 13E | 615918 | 24633 | 157 41 | 32 27 | 14 48 | 0 5 | ND | 2.799 |
| 77 | 3 36 | 32.161 | 2245 | 51 14.49N | 117 5.74E | 50 59N 117 18E | 615534 | 24634 | 157 46 | 32 36 | 14 48 | 0 6 | ND | 2.793 |
| 78 | 3 36 | 34.411 | 2250 | 51 6.08N | 117 11.17E | 50 50N 117 24E | 615153 | 24634 | 157 51 | 32 45 | 14 49 | 0 8 | ND | 2.799 |
| 79 | 3 36 | 36.656 | 2245 | 50 57.67N | 117 16.57E | 50 42N 117 29E | 614874 | 24635 | 157 56 | 32 54 | 14 50 | 0 10 | ND | 2.805 |
| 80 | 3 36 | 38.896 | 2240 | 50 49.25N | 117 21.93E | 50 33N 117 34E | 614591 | 24636 | 158 1 | 33 4 | 14 50 | 0 10 | ND | 2.805 |
| 81 | 3 36 | 41.137 | 2240 | 50 40.84N | 117 27.25E | 50 25N 117 40E | 614321 | 24636 | 158 6 | 33 13 | 14 51 | 0 12 | ND | 2.804 |
| 82 | 3 36 | 43.378 | 2241 | 50 32.43N | 117 32.53E | 50 16N 117 45E | 614048 | 24637 | 158 11 | 33 22 | 14 51 | 0 12 | ND | 2.806 |
| 83 | 3 36 | 45.616 | 2239 | 50 24.00N | 117 37.78E | 50 8N 117 50E | 613778 | 24638 | 158 16 | 33 31 | 14 51 | 0 13 | ND | 2.811 |
| 84 | 3 36 | 47.852 | 2235 | 50 15.56N | 117 43.00E | 50 0N 117 55E | 613508 | 24638 | 158 21 | 33 40 | 14 52 | 0 14 | ND | 2.805 |
| 85 | 3 36 | 50.092 | 2240 | 50 7.14N | 117 48.17E | 49 43N 118 5E | 613240 | 24640 | 158 31 | 33 58 | 14 52 | 0 15 | ND | 2.811 |
| 86 | 3 36 | 52.331 | 2240 | 49 58.71N | 117 53.32E | 49 34N 118 11E | 612974 | 24640 | 158 36 | 34 7 | 14 53 | 0 15 | ND | 2.811 |
| 87 | 3 36 | 54.566 | 2235 | 49 50.28N | 117 58.42E | 49 26N 118 16E | 612719 | 24641 | 158 40 | 34 16 | 14 53 | 0 15 | ND | 2.811 |
| 88 | 3 36 | 56.802 | 2235 | 49 41.86N | 118 3.49E | 49 17N 118 21E | 612460 | 24641 | 158 45 | 34 25 | 14 53 | 0 15 | ND | 2.816 |
| 89 | 3 36 | 59.036 | 2235 | | | | | | | | | | | |
| 90 | 3 37 | 1.268 | 2231 | | | | | | | | | | | |

TOP SECRET

HANDLE VIA

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

MANUAL KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1320 FWD 6MAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65 PAGE 63

| FRM | HR | MI | SEC | DTIM | CAMERA | NADR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|------|----|----|--------|------|-----------|------------|--------|---------|----------|-------|---------|-------|-------|------|-----|-------|
| | | | | MILS | LAT | DEG | LAT | LONG | FEET | F/S | DEG | MI | DEG | MIN | DEG | RATE |
| 91 | 3 | 37 | 3.502 | 2234 | 49 33.42N | 118 8.53E | 49 9N | 118 25E | 611932 | 24642 | 158 50 | 34 34 | 14 53 | 0 15 | ND | 2.813 |
| 92 | 3 | 37 | 5.731 | 2230 | 49 24.99N | 118 13.53E | 49 1N | 118 30E | 611677 | 24643 | 158 54 | 34 43 | 14 53 | 0 15 | ND | 2.818 |
| 93 | 3 | 37 | 7.956 | 2225 | 49 16.58N | 118 18.49E | 48 52N | 118 35E | 611423 | 24643 | 158 59 | 34 52 | 14 53 | 0 15 | ND | 2.824 |
| 94 | 3 | 37 | 10.187 | 2230 | 49 8.14N | 118 23.43E | 48 44N | 118 40E | 611172 | 24644 | 159 4 | 35 1 | 14 53 | 0 14 | ND | 2.818 |
| 95 | 3 | 37 | 12.422 | 2235 | 48 59.67N | 118 28.35E | 48 35N | 118 45E | 610921 | 24644 | 159 8 | 35 10 | 14 53 | 0 14 | ND | 2.811 |
| 96 | 3 | 37 | 14.646 | 2225 | 48 51.25N | 118 33.21E | 48 27N | 118 50E | 610674 | 24645 | 159 13 | 35 19 | 14 54 | 0 13 | ND | 2.824 |
| 97 | 3 | 37 | 16.877 | 2230 | 48 42.79N | 118 38.06E | 48 18N | 118 54E | 610427 | 24646 | 159 17 | 35 28 | 14 54 | 0 13 | ND | 2.818 |
| 98 | 3 | 37 | 19.102 | 2225 | 48 34.36N | 118 42.86E | 48 10N | 118 59E | 610184 | 24646 | 159 22 | 35 37 | 14 55 | 0 12 | ND | 2.824 |
| 99 | 3 | 37 | 21.331 | 2230 | 48 25.90N | 118 47.66E | 48 1N | 119 4E | 609941 | 24647 | 159 26 | 35 46 | 14 56 | 0 12 | ND | 2.818 |
| 0100 | 3 | 37 | 23.557 | 2225 | 48 17.45N | 118 52.46E | 47 53N | 119 8E | 609701 | 24647 | 159 30 | 35 55 | 14 56 | 0 11 | ND | 2.824 |
| 0101 | 3 | 37 | 25.777 | 2221 | 48 9.02N | 118 57.11E | 47 44N | 119 13E | 609464 | 24648 | 159 35 | 36 4 | 14 56 | 0 11 | ND | 2.829 |
| 0102 | 3 | 37 | 28.007 | 2229 | 48 0.54N | 119 1.80E | 47 36N | 119 18E | 609227 | 24649 | 159 39 | 36 13 | 14 57 | 0 11 | ND | 2.819 |
| 0103 | 3 | 37 | 30.231 | 2225 | 47 52.09N | 119 6.46E | 47 27N | 119 22E | 608993 | 24649 | 159 43 | 36 22 | 14 57 | 0 11 | ND | 2.824 |
| 0104 | 3 | 37 | 32.456 | 2225 | 47 43.62N | 119 11.09E | 47 19N | 119 27E | 608761 | 24650 | 159 48 | 36 31 | 14 57 | 0 11 | ND | 2.824 |
| 0105 | 3 | 37 | 34.677 | 2220 | 47 35.17N | 119 15.69E | 47 11N | 119 31E | 608531 | 24650 | 159 52 | 36 40 | 14 57 | 0 11 | ND | 2.830 |
| 0106 | 3 | 37 | 36.906 | 2220 | 47 26.68N | 119 20.28E | 47 2N | 119 36E | 608302 | 24651 | 159 56 | 36 49 | 14 57 | 0 12 | ND | 2.818 |
| 0107 | 3 | 37 | 39.132 | 2225 | 47 18.20N | 119 24.83E | 46 54N | 119 40E | 608075 | 24651 | 160 0 | 36 58 | 14 57 | 0 12 | ND | 2.824 |
| 0108 | 3 | 37 | 41.356 | 2225 | 47 9.72N | 119 29.35E | 46 45N | 119 45E | 607851 | 24652 | 160 4 | 37 7 | 14 57 | 0 12 | ND | 2.824 |
| 0109 | 3 | 37 | 43.576 | 2220 | 47 1.26N | 119 33.83E | 46 37N | 119 49E | 607629 | 24652 | 160 8 | 37 16 | 14 56 | 0 12 | ND | 2.830 |
| 0110 | 3 | 37 | 45.797 | 2220 | 46 52.79N | 119 38.30E | 46 28N | 119 53E | 607408 | 24653 | 160 12 | 37 25 | 14 56 | 0 12 | ND | 2.830 |
| 0111 | 3 | 37 | 48.017 | 2220 | 46 44.31N | 119 42.73E | 46 20N | 119 58E | 607190 | 24653 | 160 16 | 37 34 | 14 55 | 0 11 | ND | 2.830 |
| 0112 | 3 | 37 | 50.241 | 2225 | 46 35.82N | 119 47.14E | 46 11N | 120 2E | 606973 | 24654 | 160 20 | 37 43 | 14 54 | 0 11 | ND | 2.824 |
| 0113 | 3 | 37 | 52.462 | 2220 | 46 27.34N | 119 51.53E | 46 3N | 120 6E | 606758 | 24654 | 160 24 | 37 52 | 14 53 | 0 11 | ND | 2.830 |
| 0114 | 3 | 37 | 54.682 | 2220 | 46 18.85N | 119 55.88E | 45 54N | 120 11E | 606546 | 24655 | 160 28 | 38 1 | 14 52 | 0 11 | ND | 2.830 |
| 0115 | 3 | 37 | 56.901 | 2220 | 46 10.36N | 120 0.21E | 45 46N | 120 15E | 606335 | 24655 | 160 32 | 38 10 | 14 50 | 0 11 | ND | 2.830 |
| 0116 | 3 | 37 | 59.121 | 2220 | 46 1.87N | 120 4.52E | 45 37N | 120 19E | 606127 | 24656 | 160 36 | 38 19 | 14 49 | 0 11 | ND | 2.830 |
| 0117 | 3 | 38 | 1.343 | 2221 | 45 53.37N | 120 8.80E | 45 29N | 120 23E | 605921 | 24656 | 160 40 | 38 28 | 14 48 | 0 10 | ND | 2.829 |
| 0118 | 3 | 38 | 3.566 | 2224 | 45 44.85N | 120 13.07E | 45 20N | 120 27E | 605715 | 24657 | 160 44 | 38 36 | 14 46 | 0 10 | ND | 2.825 |
| 0119 | 3 | 38 | 5.786 | 2220 | 45 36.35N | 120 17.30E | 45 12N | 120 31E | 605512 | 24657 | 160 48 | 38 45 | 14 45 | 0 10 | ND | 2.830 |
| 0120 | 3 | 38 | 8.007 | 2220 | 45 27.84N | 120 21.51E | 45 4N | 120 36E | 605312 | 24658 | 160 52 | 38 54 | 14 44 | 0 10 | ND | 2.830 |
| 0121 | 3 | 38 | 10.227 | 2220 | 45 19.33N | 120 25.69E | 45 55N | 120 40E | 605114 | 24658 | 160 55 | 39 3 | 14 42 | 0 9 | ND | 2.830 |
| 0122 | 3 | 38 | 12.446 | 2220 | 45 10.82N | 120 29.86E | 44 47N | 120 44E | 604917 | 24659 | 160 59 | 39 12 | 14 42 | 0 9 | ND | 2.830 |
| 0123 | 3 | 38 | 14.666 | 2220 | 45 2.30N | 120 33.99E | 44 38N | 120 48E | 604722 | 24659 | 161 3 | 39 21 | 14 41 | 0 9 | ND | 2.830 |
| 0124 | 3 | 38 | 16.887 | 2220 | 44 53.77N | 120 38.11E | 44 30N | 120 52E | 604529 | 24660 | 161 7 | 39 30 | 14 40 | 0 9 | ND | 2.830 |
| 0125 | 3 | 38 | 19.102 | 2215 | 44 45.27N | 120 42.19E | 44 21N | 120 56E | 604339 | 24660 | 161 10 | 39 39 | 14 39 | 0 8 | ND | 2.837 |
| 0126 | 3 | 38 | 21.321 | 2220 | 44 36.74N | 120 46.26E | 44 13N | 121 0E | 604150 | 24661 | 161 14 | 39 48 | 14 38 | 0 8 | ND | 2.830 |
| 127 | 3 | 38 | 23.537 | 2216 | 44 28.22N | 120 50.33E | 44 56N | 121 0E | 603964 | 24661 | 161 17 | 39 57 | 14 38 | 0 8 | ND | 2.835 |
| 128 | 3 | 38 | 25.757 | 2219 | 44 19.69N | 120 54.30E | 44 56N | 121 0E | 603779 | 24662 | 161 21 | 40 6 | 14 38 | 0 8 | ND | 2.832 |
| 129 | 3 | 38 | 27.972 | 2215 | 44 11.17N | 120 58.32E | 44 47N | 121 12E | 603597 | 24662 | 161 25 | 40 15 | 14 38 | 0 7 | ND | 2.837 |
| 130 | 3 | 38 | 30.187 | 2215 | 44 2.65N | 121 2.29E | 44 38N | 121 15E | 603417 | 24662 | 161 28 | 40 24 | 14 38 | 0 7 | ND | 2.837 |
| 131 | 3 | 38 | 32.401 | 2215 | 43 54.12N | 121 6.24E | 43 30N | 121 19E | 603238 | 24663 | 161 32 | 40 33 | 14 38 | 0 7 | ND | 2.837 |

TOP SECRET

HANDLE VIA

| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|-------------|-------|-----------|-----------|--------|-----------|----------|-------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILS | LAT | LONG | LAT | LONG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 1 | 4 59 11.687 | 0 | 73 46.29N | 50 1.49E | 73 35N | 51 32E | 696447 | 24444 | 114 | 1 | 3 31 | 13 32 | 0 7 | 1.800 |
| 2 | 4 59 15.177 | 3490 | 73 48.51N | 50 46.89E | 73 29N | 52 16E | 695618 | 24446 | 114 | 47 | 3 45 | 13 34 | 0 1 | 1.800 |
| 3 | 4 59 18.116 | 2940 | 73 35.52N | 51 24.72E | 73 24N | 52 53E | 694922 | 24448 | 115 | 24 | 3 57 | 13 38 | 0 1 | 2.157 |
| 4 | 4 59 20.900 | 2784 | 73 38.68N | 52 0.20E | 73 19N | 53 28E | 694264 | 24449 | 116 | 0 | 4 8 | 13 40 | 0 2 | 2.257 |
| 5 | 4 59 23.615 | 2715 | 73 25.86N | 52 34.46E | 73 14N | 54 2E | 693623 | 24451 | 116 | 34 | 4 19 | 13 42 | 0 3 | 2.314 |
| 6 | 4 59 26.297 | 2681 | 73 21.01N | 53 7.98E | 73 9N | 54 35E | 692991 | 24452 | 117 | 7 | 4 30 | 13 45 | 0 3 | 2.344 |
| 7 | 4 59 28.961 | 2664 | 73 16.10N | 53 40.96E | 73 3N | 55 7E | 692365 | 24454 | 117 | 40 | 4 41 | 13 47 | 0 5 | 2.359 |
| 8 | 4 59 31.615 | 2655 | 73 11.12N | 54 13.50E | 72 58N | 55 39E | 691743 | 24455 | 118 | 13 | 4 52 | 13 49 | 0 6 | 2.367 |
| 9 | 4 59 34.261 | 2645 | 73 6.06N | 54 45.62E | 72 53N | 56 11E | 691124 | 24456 | 118 | 45 | 5 2 | 13 51 | 0 7 | 2.375 |
| 10 | 4 59 36.896 | 2635 | 73 0.94N | 55 17.30E | 72 48N | 56 42E | 690508 | 24458 | 119 | 16 | 5 13 | 13 53 | 0 8 | 2.385 |
| 11 | 4 59 39.521 | 2625 | 72 55.75N | 55 48.54E | 72 42N | 57 12E | 689896 | 24459 | 119 | 47 | 5 24 | 13 54 | 0 9 | 2.394 |
| 12 | 4 59 42.142 | 2621 | 72 50.49N | 56 19.43E | 72 37N | 57 42E | 689286 | 24461 | 120 | 18 | 5 34 | 13 56 | 0 10 | 2.397 |
| 13 | 4 59 44.762 | 2620 | 72 45.15N | 56 49.99E | 72 31N | 58 12E | 688677 | 24462 | 120 | 49 | 5 45 | 13 57 | 0 11 | 2.398 |
| 14 | 4 59 47.370 | 2610 | 72 39.76N | 57 20.11E | 72 26N | 58 42E | 688073 | 24464 | 121 | 19 | 5 55 | 13 58 | 0 12 | 2.408 |
| 15 | 4 59 49.980 | 2610 | 72 34.28N | 57 49.94E | 72 20N | 59 11E | 687469 | 24465 | 121 | 48 | 6 6 | 13 58 | 0 13 | 2.407 |
| 16 | 4 59 52.586 | 2605 | 72 28.74N | 58 19.41E | 72 14N | 59 39E | 686868 | 24466 | 122 | 18 | 6 16 | 13 58 | 0 13 | 2.412 |
| 17 | 4 59 55.186 | 2600 | 72 23.13N | 58 48.51E | 72 9N | 60 8E | 686269 | 24468 | 122 | 47 | 6 27 | 13 58 | 0 13 | 2.417 |
| 18 | 4 59 57.780 | 2595 | 72 17.46N | 59 17.25E | 72 3N | 60 35E | 685678 | 24469 | 123 | 15 | 6 37 | 13 58 | 0 13 | 2.421 |
| 19 | 5 0 0.370 | 2590 | 72 11.73N | 59 45.63E | 71 57N | 61 3E | 685078 | 24470 | 123 | 43 | 6 48 | 13 58 | 0 13 | 2.426 |
| 20 | 5 0 2.961 | 2590 | 72 5.93N | 60 13.72E | 71 51N | 61 30E | 684485 | 24472 | 124 | 11 | 6 58 | 13 58 | 0 13 | 2.426 |
| 21 | 5 0 5.546 | 2585 | 72 0.87N | 60 41.46E | 71 45N | 61 57E | 683895 | 24473 | 124 | 39 | 7 8 | 13 55 | 0 12 | 2.431 |
| 22 | 5 0 8.120 | 2575 | 71 54.16N | 61 8.78E | 71 39N | 62 23E | 683308 | 24475 | 125 | 6 | 7 19 | 13 53 | 0 11 | 2.440 |
| 23 | 5 0 10.700 | 2580 | 71 48.18N | 61 35.87E | 71 33N | 62 49E | 682721 | 24476 | 125 | 33 | 7 29 | 13 51 | 0 10 | 2.435 |
| 24 | 5 0 47.655 | 36955 | 70 15.70N | 67 32.79E | 69 58N | 68 38E | 674458 | 24495 | 131 | 28 | 9 58 | 14 12 | 0 32 | 0.170 |
| 25 | 5 0 50.931 | 3275 | 70 6.95N | 68 1.73E | 69 49N | 66 673739 | 24497 | 131 | 57 | 10 11 | 14 13 | 0 32 | 0 32 | 1.919 |
| 26 | 5 0 53.726 | 2795 | 69 59.42N | 68 26.10E | 69 42N | 69 29E | 673127 | 24498 | 132 | 21 | 10 23 | 14 14 | 0 32 | 2.248 |
| 27 | 5 0 56.375 | 2650 | 69 52.22N | 68 48.93E | 69 34N | 69 52E | 672549 | 24499 | 132 | 44 | 10 33 | 14 14 | 0 32 | 2.426 |
| 28 | 5 0 58.966 | 2591 | 69 45.13N | 69 10.99E | 69 27N | 70 34E | 671430 | 24502 | 133 | 27 | 10 44 | 14 15 | 0 32 | 2.371 |
| 29 | 5 1 1.517 | 2550 | 69 38.11N | 69 32.47E | 69 20N | 70 54E | 670880 | 24503 | 133 | 48 | 11 4 | 14 16 | 0 32 | 2.463 |
| 30 | 5 1 4.056 | 2539 | 69 31.07N | 69 53.61E | 69 13N | 71 14E | 670334 | 24505 | 134 | 9 | 11 15 | 14 17 | 0 31 | 2.475 |
| 31 | 5 1 6.580 | 2525 | 69 24.03N | 70 14.39E | 69 5N | 71 34E | 669791 | 24506 | 134 | 29 | 11 25 | 14 17 | 0 31 | 2.493 |
| 32 | 5 1 9.101 | 2520 | 69 16.96N | 70 34.91E | 68 58N | 71 54E | 669251 | 24507 | 134 | 49 | 11 35 | 14 18 | 0 31 | 2.503 |
| 33 | 5 1 11.610 | 2510 | 69 9.87N | 70 55.11E | 68 51N | 71 54E | 668715 | 24508 | 135 | 9 | 11 45 | 14 19 | 0 30 | 2.513 |
| 34 | 5 1 14.110 | 2500 | 69 2.77N | 71 15.01E | 68 44N | 72 13E | 668180 | 24510 | 135 | 29 | 11 55 | 14 19 | 0 30 | 2.513 |
| 35 | 5 1 16.610 | 2500 | 68 55.63N | 71 34.69E | 68 37N | 72 32E | 667646 | 24511 | 135 | 48 | 12 5 | 14 20 | 0 29 | 2.513 |
| 36 | 5 1 19.110 | 2500 | 68 48.44N | 71 54.16E | 68 29N | 72 51E | 667114 | 24512 | 136 | 7 | 12 15 | 14 20 | 0 29 | 2.518 |
| 37 | 5 1 21.605 | 2495 | 68 41.24N | 72 13.37E | 68 22N | 73 9E | 666586 | 24513 | 136 | 26 | 12 25 | 14 21 | 0 28 | 2.523 |
| 38 | 5 1 24.096 | 2490 | 68 34.00N | 72 32.34E | 68 15N | 73 28E | 666060 | 24515 | 136 | 44 | 12 35 | 14 21 | 0 27 | 2.528 |
| 39 | 5 1 26.580 | 2485 | 68 26.75N | 72 51.05E | 68 7N | 74 4E | 665535 | 24516 | 137 | 3 | 12 45 | 14 22 | 0 26 | 2.528 |
| 40 | 5 1 29.065 | 2485 | 68 19.46N | 73 9.56E | 68 0N | 74 4E | 665002 | 24517 | 137 | 21 | 12 55 | 14 22 | 0 24 | 2.534 |
| 41 | 5 1 31.546 | 2480 | 68 12.14N | 73 27.84E | 67 52N | 74 21E | 664493 | 24518 | 137 | 39 | 13 5 | 14 22 | 0 23 | 2.544 |
| 42 | 5 1 34.016 | 2470 | 68 4.82N | 73 45.84E | 67 45N | 74 39E | 663975 | 24519 | 137 | 56 | 13 13 | 14 23 | 0 21 | 2.539 |
| 43 | 5 1 36.490 | 2475 | 67 57.45N | 74 21.33E | 67 37N | 74 56E | 663457 | 24521 | 138 | 14 | 13 25 | 14 23 | 0 20 | 2.539 |
| 44 | 5 1 38.966 | 2475 | 67 50.04N | 74 3.68E | 67 30N | 75 13E | 662944 | 24522 | 138 | 14 | 13 35 | 14 23 | 0 19 | 2.549 |
| 45 | 5 1 41.431 | 2465 | 67 42.64N | 74 38.71E | 67 22N | 75 30E | | | | | | | | |

TOP SECRET

HANDLE VIA
21. CAT. CONTROL

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

TALENT-KEYHOLE CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 133D FWD 6MAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65 PAGE 65

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

| FRM | Z TIME | HR | MI | SEC | DPTM | DEG MIN | DEG LONG | DEG MIN | DEG LONG | DEG MIN | DEG LONG | ALTITUDE FEET | F/S | DEG MI | DEG MI | PITCH | ROLL | YAW | SCAN RATE | |
|-----|--------|----|----|-----|-------|-----------|-----------|---------|----------|---------|----------|---------------|-----|--------|--------|---------|---------|---------|-----------|-------|
| | | | | | MILS | LAT | LONG | LAT | LONG | LAT | LONG | | | | | DEG MIN | DEG MIN | DEG MIN | MIN | RATE |
| 46 | 5 | 1 | 43 | 891 | 2460 | 67 35.21N | 74 55.88E | 67 15N | 75 46E | 662432 | 24523 | 138 | 48 | 13 | 45 | 14 | 24 | 0 18 | ND | 2.554 |
| 47 | 5 | 1 | 46 | 355 | 2465 | 67 27.74N | 75 12.89E | 67 7N | 76 3E | 661921 | 24524 | 139 | 5 | 13 | 55 | 14 | 25 | 0 17 | ND | 2.549 |
| 48 | 5 | 1 | 48 | 815 | 2460 | 67 20.24N | 75 29.69E | 67 0N | 76 19E | 661413 | 24525 | 139 | 22 | 14 | 5 | 14 | 25 | 0 17 | ND | 2.554 |
| 49 | 5 | 1 | 51 | 271 | 2455 | 67 12.74N | 75 46.27E | 66 52N | 76 35E | 666907 | 24527 | 139 | 38 | 14 | 15 | 14 | 25 | 0 16 | ND | 2.559 |
| 50 | 5 | 1 | 53 | 716 | 2450 | 67 5.23N | 76 2.61E | 66 44N | 76 51E | 669402 | 24528 | 139 | 54 | 14 | 25 | 14 | 25 | 0 15 | ND | 2.570 |
| 51 | 5 | 1 | 56 | 165 | 2450 | 66 57.67N | 76 18.80E | 66 37N | 77 6E | 659902 | 24529 | 140 | 10 | 14 | 35 | 14 | 25 | 0 15 | ND | 2.565 |
| 52 | 5 | 1 | 58 | 610 | 2445 | 66 50.11N | 76 34.80E | 66 29N | 77 22E | 659402 | 24530 | 140 | 26 | 14 | 45 | 14 | 26 | 0 15 | ND | 2.570 |
| 53 | 5 | 2 | 1 | 056 | 2445 | 66 42.51N | 76 50.62E | 66 22N | 77 37E | 658902 | 24531 | 140 | 42 | 14 | 54 | 14 | 26 | 0 15 | ND | 2.570 |
| 54 | 5 | 2 | 3 | 490 | 2435 | 66 34.92N | 77 6.21E | 66 14N | 77 52E | 658409 | 24532 | 140 | 57 | 15 | 4 | 14 | 26 | 0 15 | ND | 2.580 |
| 55 | 5 | 2 | 5 | 927 | 2436 | 66 27.29N | 77 21.65E | 66 6N | 78 7E | 657915 | 24534 | 141 | 13 | 15 | 14 | 14 | 26 | 0 15 | ND | 2.579 |
| 56 | 5 | 2 | 8 | 365 | 2439 | 66 19.63N | 77 36.94E | 65 58N | 78 22E | 657422 | 24535 | 141 | 28 | 15 | 24 | 14 | 26 | 0 15 | ND | 2.576 |
| 57 | 5 | 4 | 10 | 856 | 22491 | 59 27.10N | 87 36.17E | 59 3N | 88 3E | 634665 | 24588 | 151 | 17 | 23 | 39 | 14 | 48 | -0 15 | ND | 0.851 |
| 58 | 5 | 4 | 13 | 956 | 3100 | 59 16.12N | 87 47.91E | 58 52N | 88 14E | 634144 | 24589 | 151 | 28 | 23 | 52 | 14 | 46 | -0 14 | ND | 2.827 |
| 59 | 5 | 4 | 16 | 580 | 2624 | 59 6.80N | 87 57.74E | 58 43N | 88 24E | 633705 | 24590 | 151 | 38 | 24 | 2 | 14 | 44 | -0 14 | ND | 2.395 |
| 60 | 5 | 4 | 19 | 076 | 2496 | 58 57.93N | 88 7.01E | 58 34N | 88 33E | 633289 | 24591 | 151 | 47 | 24 | 12 | 14 | 42 | -0 14 | ND | 2.517 |
| 61 | 5 | 4 | 21 | 477 | 2400 | 58 49.38N | 88 15.84E | 58 25N | 88 41E | 632891 | 24592 | 151 | 56 | 24 | 22 | 14 | 40 | -0 14 | ND | 2.618 |
| 62 | 5 | 4 | 23 | 830 | 2354 | 58 40.99N | 88 24.43E | 58 17N | 88 49E | 632503 | 24593 | 152 | 4 | 24 | 31 | 14 | 38 | -0 14 | ND | 2.669 |
| 63 | 5 | 4 | 26 | 182 | 2351 | 58 32.60N | 88 32.93E | 58 9N | 88 58E | 632116 | 24594 | 152 | 12 | 24 | 41 | 14 | 37 | -0 14 | ND | 2.673 |
| 64 | 5 | 4 | 28 | 525 | 2344 | 58 24.22N | 88 41.34E | 58 0N | 89 6E | 631733 | 24595 | 152 | 20 | 24 | 50 | 14 | 35 | -0 14 | ND | 2.681 |
| 65 | 5 | 4 | 30 | 860 | 2335 | 58 15.87N | 88 49.64E | 57 52N | 89 14E | 631353 | 24596 | 152 | 28 | 24 | 59 | 14 | 35 | -0 14 | ND | 2.691 |
| 66 | 5 | 4 | 33 | 511 | 2325 | 58 7.53N | 88 57.85E | 57 44N | 89 22E | 630976 | 24597 | 152 | 36 | 25 | 9 | 14 | 35 | -0 14 | ND | 2.702 |
| 67 | 5 | 4 | 35 | 511 | 2325 | 57 59.19N | 89 5.98E | 57 35N | 89 30E | 630600 | 24598 | 152 | 44 | 25 | 18 | 14 | 35 | -0 15 | ND | 2.702 |
| 68 | 5 | 4 | 37 | 825 | 2315 | 57 50.88N | 89 14.01E | 57 27N | 89 38E | 630228 | 24598 | 152 | 52 | 25 | 28 | 14 | 36 | -0 15 | ND | 2.714 |
| 69 | 5 | 4 | 40 | 141 | 2315 | 57 42.55N | 89 21.97E | 57 19N | 89 45E | 629857 | 24599 | 153 | 0 | 25 | 37 | 14 | 37 | -0 16 | ND | 2.714 |
| 70 | 5 | 4 | 42 | 455 | 2315 | 57 34.21N | 89 29.87E | 57 10N | 89 53E | 629489 | 24600 | 153 | 7 | 25 | 46 | 14 | 39 | -0 17 | ND | 2.714 |
| 71 | 5 | 4 | 44 | 761 | 2305 | 57 25.90N | 89 37.68E | 57 2N | 90 1E | 629123 | 24601 | 153 | 15 | 25 | 56 | 14 | 41 | -0 18 | ND | 2.726 |
| 72 | 5 | 4 | 47 | 069 | 2309 | 57 17.57N | 89 45.43E | 56 53N | 90 8E | 628759 | 24602 | 153 | 22 | 26 | 5 | 14 | 44 | -0 19 | ND | 2.721 |
| 73 | 5 | 4 | 49 | 375 | 2306 | 57 9.24N | 89 53.11E | 56 45N | 90 16E | 628397 | 24603 | 153 | 30 | 26 | 15 | 14 | 44 | -0 19 | ND | 2.725 |
| 74 | 5 | 4 | 51 | 676 | 2300 | 57 0.91N | 90 0.71E | 56 36N | 90 23E | 628037 | 24604 | 153 | 37 | 26 | 24 | 14 | 47 | -0 20 | ND | 2.732 |
| 75 | 5 | 4 | 53 | 976 | 2300 | 56 52.58N | 90 8.25E | 56 28N | 90 31E | 627680 | 24604 | 153 | 44 | 26 | 33 | 14 | 49 | -0 23 | ND | 2.732 |
| 76 | 5 | 4 | 56 | 275 | 2300 | 56 44.24N | 90 15.73E | 56 20N | 90 38E | 627223 | 24605 | 153 | 52 | 26 | 43 | 14 | 50 | -0 24 | ND | 2.732 |
| 77 | 5 | 4 | 58 | 575 | 2300 | 56 35.90N | 90 23.15E | 56 11N | 90 45E | 626869 | 24606 | 153 | 59 | 26 | 52 | 14 | 51 | -0 24 | ND | 2.732 |
| 78 | 5 | 5 | 0 | 865 | 2290 | 56 27.58N | 90 30.48E | 56 3N | 90 52E | 626617 | 24607 | 154 | 6 | 27 | 1 | 14 | 52 | -0 25 | ND | 2.744 |
| 79 | 5 | 5 | 3 | 160 | 2295 | 56 19.23N | 90 37.77E | 55 55N | 90 59E | 626267 | 24608 | 154 | 13 | 27 | 11 | 14 | 53 | -0 25 | ND | 2.738 |
| 80 | 5 | 5 | 5 | 450 | 2290 | 56 10.99N | 90 44.98E | 55 46N | 91 6E | 625920 | 24609 | 154 | 20 | 27 | 20 | 14 | 53 | -0 25 | ND | 2.744 |
| 81 | 5 | 5 | 7 | 740 | 2280 | 56 2.54N | 90 52.14E | 55 38N | 91 13E | 625573 | 24609 | 154 | 27 | 27 | 29 | 14 | 52 | -0 25 | ND | 2.744 |
| 82 | 5 | 5 | 10 | 030 | 2290 | 55 54.19N | 90 59.25E | 55 30N | 91 20E | 625229 | 24610 | 154 | 34 | 27 | 38 | 14 | 52 | -0 25 | ND | 2.744 |
| 83 | 5 | 5 | 12 | 315 | 2285 | 55 45.04N | 91 6.28E | 55 21N | 91 27E | 624886 | 24611 | 154 | 40 | 27 | 48 | 14 | 50 | -0 25 | ND | 2.750 |
| 84 | 5 | 5 | 14 | 601 | 2285 | 55 37.49N | 91 13.27E | 55 13N | 91 34E | 624546 | 24612 | 154 | 47 | 27 | 57 | 14 | 48 | -0 24 | ND | 2.750 |
| 85 | 5 | 5 | 16 | 886 | 2285 | 55 29.12N | 91 20.20E | 55 5N | 91 41E | 624208 | 24613 | 154 | 54 | 28 | 6 | 14 | 46 | -0 24 | ND | 2.750 |
| 86 | 5 | 5 | 19 | 165 | 2280 | 55 20.78N | 91 27.05E | 54 56N | 91 47E | 623872 | 24613 | 155 | 0 | 28 | 15 | 14 | 45 | -0 22 | ND | 2.756 |
| 87 | 5 | 5 | 21 | 441 | 2276 | 55 12.43N | 91 33.85E | 54 48N | 91 54E | 623538 | 24614 | 155 | 7 | 28 | 24 | 14 | 42 | -0 21 | ND | 2.761 |
| 88 | 5 | 5 | 23 | 721 | 2279 | 55 4.07N | 91 40.61E | 54 40N | 92 1E | 623205 | 24615 | 155 | 13 | 28 | 33 | 14 | 40 | -0 20 | ND | 2.762 |
| 89 | 5 | 5 | 25 | 995 | 2275 | 54 55.71N | 91 47.30E | 54 31N | 92 7E | 622875 | 24616 | 155 | 20 | 28 | 42 | 14 | 40 | -0 19 | ND | 2.762 |
| 90 | 5 | 5 | 28 | 266 | 2270 | 54 47.36N | 91 53.93E | 54 23N | 92 14E | 622547 | 24617 | 155 | 26 | 28 | 52 | 14 | 39 | -0 18 | ND | 2.768 |

TOP SECRET.

HANDLE VIA

| PASS 1330 FWD 6MAR65 | | | | CAMERA NADIR | | | | FRAME CENTER | | | | MISSION 1017-2 | | | | | |
|----------------------|--------|--------|-------|--------------|------------|---------|---------|--------------|-------|----------|-------|----------------|----------|-------|------|-----|-------|
| FRM | Z TIME | DTIM | LAT | DEG MIN | LONG | DEG MIN | LAT | DEG MIN | LONG | ALTITUDE | VELOC | DEG MI | DEG SUN/ | PITCH | ROLL | YAW | SCAN |
| HR MI | SEC | MILS | MIN | SEC | MIN | SEC | MIN | SEC | MIN | FEET | F/S | MI | MI | MIN | MIN | MIN | RATE |
| 91 | 5 5 | 30.536 | 2271 | 54 39.01N | 92 0.51E | 54 15N | 92 20E | 62221 | 24617 | 155 32 | 29 1 | 14 39 | -0.17 | ND | | | 2.767 |
| 92 | 5 5 | 32.806 | 2269 | 54 30.65N | 92 7.04E | 54 6N | 92 27E | 62189 | 24618 | 155 39 | 29 10 | 14 39 | -0.16 | ND | | | 2.769 |
| 93 | 5 5 | 35.075 | 2270 | 54 22.28N | 92 13.52E | 53 58N | 92 33E | 62157 | 24619 | 155 45 | 29 19 | 14 39 | -0.16 | ND | | | 2.768 |
| 94 | 5 5 | 37.341 | 2265 | 54 13.92N | 92 19.94E | 53 58N | 92 39E | 62125 | 24620 | 155 51 | 29 28 | 14 40 | -0.15 | ND | | | 2.774 |
| 95 | 5 11 | 46.766 | 69425 | 30 32.22N | 103 25.29E | 30 7N | 103 34E | 59687 | 24681 | 165 34 | 54 19 | 14 53 | -0.2 | ND | | | 0.017 |
| 96 | 5 11 | 49.802 | 30336 | 30 20.25N | 103 25.29E | 29 55N | 103 31E | 59682 | 24681 | 165 36 | 54 14 | 14 50 | -0.2 | ND | | | 2.077 |
| 97 | 5 11 | 52.296 | 2494 | 30 10.42N | 103 28.19E | 29 46N | 103 37E | 59610 | 24681 | 165 38 | 54 41 | 14 47 | -0.2 | ND | | | 2.519 |
| 98 | 5 11 | 54.666 | 2371 | 30 1.07N | 103 30.94E | 29 36N | 103 40E | 59614 | 24681 | 165 40 | 54 51 | 14 45 | -0.2 | ND | | | 2.650 |
| 99 | 5 11 | 56.937 | 2270 | 29 52.11N | 103 33.57E | 29 28N | 103 42E | 59618 | 24681 | 165 42 | 55 0 | 14 42 | -0.2 | ND | | | 2.768 |
| 000 | 5 11 | 59.200 | 2264 | 29 43.18N | 103 36.18E | 29 19N | 103 45E | 59622 | 24680 | 165 44 | 55 9 | 14 39 | -0.2 | ND | | | 2.775 |
| 001 | 5 12 | 1.445 | 2245 | 29 34.32N | 103 38.75E | 29 10N | 103 47E | 59627 | 24680 | 165 46 | 55 17 | 14 36 | -0.3 | ND | | | 2.799 |
| 002 | 5 12 | 3.686 | 2240 | 29 25.47N | 103 41.31E | 29 1N | 103 50E | 59632 | 24680 | 165 48 | 55 26 | 14 35 | -0.4 | ND | | | 2.805 |
| 003 | 5 12 | 5.921 | 2235 | 29 16.65N | 103 43.86E | 28 52N | 103 52E | 59636 | 24680 | 165 49 | 55 35 | 14 33 | -0.4 | ND | | | 2.811 |
| 004 | 5 12 | 8.155 | 2235 | 29 7.83N | 103 46.40E | 28 43N | 103 55E | 59641 | 24680 | 165 51 | 55 44 | 14 31 | -0.5 | ND | | | 2.811 |
| 005 | 5 12 | 10.381 | 2225 | 28 59.04N | 103 48.92E | 28 35N | 103 57E | 59647 | 24680 | 165 53 | 55 53 | 14 30 | -0.5 | ND | | | 2.824 |
| 006 | 5 12 | 12.610 | 2230 | 28 50.25N | 103 51.43E | 28 26N | 104 0E | 59652 | 24680 | 165 55 | 56 2 | 14 29 | -0.6 | ND | | | 2.818 |
| 007 | 5 12 | 14.837 | 2226 | 28 41.44N | 103 53.93E | 28 17N | 104 0E | 59658 | 24680 | 165 56 | 56 11 | 14 28 | -0.7 | ND | | | 2.823 |
| 008 | 5 12 | 17.065 | 2229 | 28 32.63N | 103 56.43E | 28 8N | 104 0E | 59664 | 24680 | 165 58 | 56 20 | 14 27 | -0.7 | ND | | | 2.819 |
| 009 | 5 12 | 19.290 | 2225 | 28 23.84N | 103 58.91E | 28 0N | 104 0E | 59670 | 24679 | 166 0 | 56 28 | 14 26 | -0.8 | ND | | | 2.824 |
| 010 | 5 12 | 21.512 | 2221 | 28 15.07N | 104 1.38E | 27 51N | 104 0E | 59675 | 24679 | 166 2 | 56 37 | 14 25 | -0.8 | ND | | | 2.829 |
| 011 | 5 12 | 23.735 | 2224 | 28 6.28N | 104 3.85E | 27 42N | 104 0E | 59680 | 24679 | 166 3 | 56 46 | 14 25 | -0.10 | ND | | | 2.835 |
| 012 | 5 12 | 25.966 | 2230 | 27 57.46N | 104 6.31E | 27 33N | 104 0E | 59691 | 24679 | 166 5 | 56 55 | 14 24 | -0.10 | ND | | | 2.818 |
| 013 | 5 12 | 28.186 | 2220 | 27 48.68N | 104 8.76E | 27 24N | 104 0E | 59698 | 24679 | 166 7 | 57 4 | 14 24 | -0.10 | ND | | | 2.830 |
| 014 | 5 12 | 30.405 | 2220 | 27 39.91N | 104 11.19E | 27 16N | 104 0E | 59705 | 24679 | 166 8 | 57 13 | 14 23 | -0.10 | ND | | | 2.830 |
| 015 | 5 12 | 32.636 | 2230 | 27 31.09N | 104 13.63E | 27 7N | 104 0E | 59713 | 24679 | 166 10 | 57 22 | 14 23 | -0.10 | ND | | | 2.818 |
| 016 | 5 12 | 34.855 | 2220 | 27 22.31N | 104 16.06E | 26 58N | 104 0E | 59721 | 24678 | 166 12 | 57 30 | 14 22 | -0.9 | ND | | | 2.830 |
| 017 | 5 12 | 37.085 | 2230 | 27 13.49N | 104 18.48E | 26 49N | 104 0E | 59729 | 24678 | 166 13 | 57 39 | 14 22 | -0.9 | ND | | | 2.818 |
| 018 | 5 12 | 39.306 | 2220 | 27 4.71N | 104 20.89E | 26 41N | 104 0E | 59738 | 24678 | 166 15 | 57 48 | 14 22 | -0.8 | ND | | | 2.830 |
| 019 | 5 12 | 41.530 | 2225 | 26 55.98N | 104 23.29E | 26 32N | 104 0E | 59747 | 24678 | 166 16 | 57 57 | 14 23 | -0.8 | ND | | | 2.824 |
| 020 | 5 12 | 43.751 | 2221 | 26 47.12N | 104 25.68E | 26 23N | 104 0E | 59755 | 24678 | 166 18 | 58 6 | 14 24 | -0.8 | ND | | | 2.829 |
| 021 | 5 12 | 45.976 | 2224 | 26 38.31N | 104 28.07E | 26 14N | 104 0E | 59765 | 24677 | 166 20 | 58 15 | 14 24 | -0.8 | ND | | | 2.825 |
| 022 | 5 12 | 48.195 | 2220 | 26 29.53N | 104 30.44E | 26 5N | 104 0E | 59774 | 24677 | 166 21 | 58 24 | 14 25 | -0.8 | ND | | | 2.830 |
| 023 | 5 12 | 50.421 | 2225 | 26 20.72N | 104 32.81E | 25 56N | 104 0E | 59784 | 24677 | 166 23 | 58 32 | 14 26 | -0.7 | ND | | | 2.824 |
| 024 | 5 12 | 52.641 | 2220 | 26 11.93N | 104 35.17E | 25 48N | 104 0E | 59794 | 24677 | 166 24 | 58 41 | 14 27 | -0.7 | ND | | | 2.830 |
| 025 | 5 12 | 54.865 | 2225 | 26 3.12N | 104 37.53E | 25 39N | 104 0E | 59804 | 24677 | 166 26 | 58 50 | 14 28 | -0.7 | ND | | | 2.824 |
| 026 | 5 12 | 57.088 | 2215 | 25 54.35N | 104 39.87E | 25 30N | 104 0E | 59814 | 24676 | 166 27 | 58 59 | 14 29 | -0.7 | ND | | | 2.837 |
| 027 | 5 12 | 59.306 | 2225 | 25 45.54N | 104 42.22E | 25 21N | 104 0E | 59825 | 24676 | 166 29 | 59 8 | 14 30 | -0.8 | ND | | | 2.824 |
| 028 | 5 13 | 1.525 | 2220 | 25 36.75N | 104 44.55E | 25 12N | 104 0E | 59836 | 24676 | 166 30 | 59 17 | 14 31 | -0.8 | ND | | | 2.830 |
| 029 | 5 13 | 3.745 | 2220 | 25 27.95N | 104 46.87E | 25 3N | 104 0E | 59847 | 24676 | 166 32 | 59 26 | 14 31 | -0.8 | ND | | | 2.830 |
| 030 | 5 13 | 5.971 | 2225 | 25 19.14N | 104 49.19E | 24 55N | 104 0E | 59858 | 24675 | 166 33 | 59 34 | 14 32 | -0.8 | ND | | | 2.824 |
| 031 | 5 13 | 8.190 | 2220 | 25 10.34N | 104 51.50E | 24 46N | 104 0E | 59870 | 24675 | 166 35 | 59 43 | 14 32 | -0.9 | ND | | | 2.830 |
| 032 | 5 13 | 10.410 | 2220 | 25 1.55N | 104 53.81E | 24 37N | 105 0E | 59882 | 24675 | 166 36 | 59 52 | 14 33 | -0.9 | ND | | | 2.830 |
| 033 | 5 13 | 12.636 | 2225 | 24 52.75N | 104 56.11E | 24 28N | 105 0E | 59894 | 24675 | 166 38 | 60 0 | 14 34 | -0.9 | ND | | | 2.824 |
| 034 | 5 13 | 14.855 | 2220 | 24 43.93N | 104 58.40E | 24 19N | 105 0E | 59906 | 24674 | 166 39 | 60 10 | 14 34 | -0.9 | ND | | | 2.830 |
| 035 | 5 13 | 17.080 | 2225 | 24 35.11N | 105 0.68E | 24 10N | 105 0E | 59919 | 24674 | 166 40 | 60 18 | 14 34 | -0.9 | ND | | | 2.824 |

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

PASS 133D FWD 6MAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65

PAGE 67

| FRM | 2 TIME | | | DTIM | CAMERA NADIR | | | FORMAT CENTER | | | ALTITUDE VELOC | | | AZIMUTH SUN/ | | | PITCH | | ROLL | | YAW | | SCAN RATE | |
|-----|--------|----|--------|------|--------------|--------|-----|---------------|-----|-----|----------------|-----|--------|--------------|-----|----|-------|----|------|-----|-----|-----|-----------|-------|
| | HR | MI | SEC | | MILS | DEG | MIN | LONG | DEG | MIN | LONG | MIN | FEET | F/S | DEG | MI | DEG | MI | DEG | MIN | DEG | MIN | | |
| 136 | 5 | 13 | 19.301 | 2220 | 24 | 26.31N | 105 | 2.96E | 24 | 2N | 105 | 11E | 599318 | 24674 | 166 | 42 | 60 | 27 | 14 | 34 | -0 | 8 | ND | 2.830 |
| 137 | 5 | 13 | 21.525 | 2225 | 24 | 17.49N | 105 | 5.24E | 23 | 53N | 105 | 13E | 599449 | 24673 | 166 | 43 | 60 | 36 | 14 | 35 | -0 | 9 | ND | 2.824 |
| 138 | 5 | 13 | 23.745 | 2220 | 24 | 8.69N | 105 | 7.50E | 23 | 44N | 105 | 15E | 599582 | 24673 | 166 | 45 | 60 | 45 | 14 | 35 | -0 | 8 | ND | 2.830 |
| 139 | 5 | 13 | 25.967 | 2221 | 23 | 59.88N | 105 | 9.76E | 23 | 35N | 105 | 17E | 599718 | 24673 | 166 | 46 | 60 | 54 | 14 | 35 | -0 | 7 | ND | 2.829 |
| 140 | 5 | 13 | 28.190 | 2224 | 23 | 51.06N | 105 | 12.01E | 23 | 26N | 105 | 20E | 599856 | 24673 | 166 | 47 | 61 | 2 | 14 | 35 | -0 | 6 | ND | 2.825 |
| 141 | 5 | 13 | 30.410 | 2220 | 23 | 42.25N | 105 | 14.26E | 23 | 18N | 105 | 22E | 599996 | 24672 | 166 | 49 | 61 | 11 | 14 | 34 | -0 | 6 | ND | 2.830 |
| 142 | 5 | 13 | 32.632 | 2221 | 23 | 33.44N | 105 | 16.49E | 23 | 9N | 105 | 24E | 600139 | 24672 | 166 | 50 | 61 | 20 | 14 | 33 | -0 | 5 | ND | 2.829 |
| 143 | 5 | 13 | 34.855 | 2224 | 23 | 24.62N | 105 | 18.73E | 23 | 0N | 105 | 26E | 600284 | 24672 | 166 | 51 | 61 | 29 | 14 | 32 | -0 | 4 | ND | 2.825 |
| 144 | 5 | 13 | 37.076 | 2221 | 23 | 15.81N | 105 | 20.96E | 22 | 51N | 105 | 29E | 600432 | 24671 | 166 | 53 | 61 | 37 | 14 | 32 | -0 | 3 | ND | 2.829 |
| 145 | 5 | 13 | 39.301 | 2224 | 23 | 6.98N | 105 | 23.18E | 22 | 42N | 105 | 31E | 600583 | 24671 | 166 | 54 | 61 | 46 | 14 | 30 | -0 | 2 | ND | 2.825 |
| 146 | 5 | 13 | 41.525 | 2225 | 22 | 58.16N | 105 | 25.40E | 22 | 34N | 105 | 33E | 600736 | 24671 | 166 | 55 | 61 | 55 | 14 | 29 | -0 | 2 | ND | 2.824 |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1340 FMD 6MAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65 PAGE 68

| FRM | 2 TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | | | |
|-----|--------|------|--------|-------|--------|--------|----------|--------|---------|------|-------|------|--------|-------|-----|----|----|----|-------|
| HR | MI | SEC | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MI | DEG | MIN | DEG | RATE | | | | | |
| 1 | 6 | 32 | 18.891 | 0 | 65 | 10.39N | 57 | 6.550E | 64 | 48N | 57 | 46E | 652450 | 24546 | 143 | 35 | 16 | 49 | 1.934 |
| 2 | 6 | 32 | 22.140 | 3249 | 64 | 59.84N | 57 | 24.84E | 64 | 38N | 58 | 3E | 651816 | 24548 | 143 | 53 | 17 | 2 | 1.934 |
| 3 | 6 | 32 | 24.864 | 2725 | 64 | 50.97N | 57 | 40.03E | 64 | 29N | 58 | 10E | 651287 | 24549 | 144 | 8 | 17 | 13 | 2.306 |
| 4 | 6 | 32 | 27.431 | 2566 | 64 | 42.58N | 57 | 54.19E | 64 | 20N | 58 | 32E | 650790 | 24550 | 144 | 22 | 17 | 23 | 2.449 |
| 5 | 6 | 32 | 29.925 | 2494 | 64 | 34.40N | 58 | 71.80E | 64 | 12N | 58 | 45E | 650308 | 24551 | 144 | 35 | 17 | 33 | 2.519 |
| 6 | 6 | 32 | 32.385 | 2460 | 64 | 26.32N | 58 | 21.08E | 64 | 4N | 58 | 58E | 649835 | 24552 | 144 | 49 | 17 | 43 | 2.554 |
| 7 | 6 | 32 | 34.824 | 2440 | 64 | 18.28N | 58 | 34.12E | 63 | 56N | 59 | 11E | 649367 | 24553 | 145 | 1 | 17 | 53 | 2.575 |
| 8 | 6 | 32 | 37.255 | 2430 | 64 | 10.24N | 58 | 46.98E | 63 | 48N | 59 | 23E | 648903 | 24554 | 145 | 14 | 18 | 3 | 2.586 |
| 9 | 6 | 32 | 39.675 | 2420 | 64 | 2.23N | 58 | 59.66E | 63 | 40N | 59 | 35E | 648442 | 24555 | 145 | 27 | 18 | 13 | 2.596 |
| 10 | 6 | 32 | 42.084 | 2410 | 63 | 54.22N | 59 | 12.15E | 63 | 32N | 59 | 48E | 647985 | 24557 | 145 | 39 | 18 | 23 | 2.607 |
| 11 | 6 | 32 | 44.494 | 2410 | 63 | 46.20N | 59 | 24.53E | 63 | 24N | 60 | 0E | 647529 | 24558 | 145 | 51 | 18 | 32 | 2.607 |
| 12 | 6 | 32 | 46.899 | 2405 | 63 | 38.17N | 59 | 36.76E | 63 | 16N | 60 | 11E | 647077 | 24559 | 146 | 3 | 18 | 42 | 2.613 |
| 13 | 6 | 32 | 49.296 | 2396 | 63 | 30.15N | 59 | 48.83E | 63 | 8N | 60 | 23E | 646625 | 24560 | 146 | 15 | 18 | 52 | 2.622 |
| 14 | 6 | 32 | 51.689 | 2394 | 63 | 22.12N | 60 | 0.76E | 63 | 0N | 60 | 35E | 646176 | 24561 | 146 | 27 | 19 | 1 | 2.625 |
| 15 | 6 | 32 | 54.084 | 2395 | 63 | 14.07N | 60 | 12.59E | 62 | 51N | 60 | 46E | 645729 | 24562 | 146 | 38 | 19 | 11 | 2.623 |
| 16 | 6 | 32 | 56.471 | 2386 | 63 | 6.03N | 60 | 24.26E | 62 | 43N | 60 | 58E | 645286 | 24563 | 146 | 50 | 19 | 20 | 2.633 |
| 17 | 6 | 32 | 58.859 | 2389 | 62 | 57.96N | 60 | 35.82E | 62 | 35N | 61 | 9E | 644843 | 24564 | 147 | 1 | 19 | 30 | 2.630 |
| 18 | 6 | 33 | 1.244 | 2385 | 62 | 49.89N | 60 | 47.26E | 62 | 27N | 61 | 20E | 644402 | 24565 | 147 | 13 | 19 | 40 | 2.634 |
| 19 | 6 | 33 | 3.624 | 2380 | 62 | 41.81N | 60 | 58.57E | 62 | 19N | 61 | 31E | 643964 | 24566 | 147 | 24 | 19 | 49 | 2.640 |
| 20 | 6 | 33 | 6.005 | 2380 | 62 | 33.72N | 61 | 9.78E | 62 | 11N | 61 | 42E | 643528 | 24567 | 147 | 35 | 19 | 59 | 2.640 |
| 21 | 6 | 33 | 8.380 | 2375 | 62 | 25.63N | 61 | 20.85E | 62 | 3N | 61 | 53E | 643093 | 24568 | 147 | 46 | 20 | 8 | 2.646 |
| 22 | 6 | 33 | 10.755 | 2375 | 62 | 17.53N | 61 | 31.81E | 61 | 55N | 62 | 4E | 642661 | 24569 | 147 | 56 | 20 | 18 | 2.646 |
| 23 | 6 | 33 | 13.124 | 2370 | 62 | 9.42N | 61 | 42.65E | 61 | 47N | 62 | 14E | 642232 | 24570 | 148 | 7 | 20 | 27 | 2.651 |
| 24 | 6 | 33 | 15.494 | 2370 | 62 | 1.30N | 61 | 53.39E | 61 | 39N | 62 | 25E | 641803 | 24571 | 148 | 17 | 20 | 37 | 2.651 |
| 25 | 6 | 33 | 17.864 | 2370 | 61 | 53.16N | 62 | 4.03E | 61 | 31N | 62 | 35E | 641376 | 24572 | 148 | 28 | 20 | 46 | 2.651 |
| 26 | 6 | 33 | 20.226 | 2361 | 61 | 45.04N | 62 | 14.54E | 61 | 23N | 62 | 45E | 640952 | 24573 | 148 | 38 | 20 | 56 | 2.661 |
| 27 | 6 | 33 | 22.599 | 2364 | 61 | 36.89N | 62 | 24.96E | 61 | 15N | 62 | 55E | 640530 | 24574 | 148 | 48 | 21 | 5 | 2.662 |
| 28 | 6 | 33 | 24.949 | 2360 | 61 | 28.75N | 62 | 35.26E | 61 | 7N | 63 | 5E | 640110 | 24575 | 148 | 58 | 21 | 15 | 2.662 |
| 29 | 6 | 34 | 3.136 | 38186 | 59 | 14.96N | 65 | 9.70E | 58 | 51N | 65 | 34E | 633532 | 24590 | 151 | 29 | 23 | 50 | 0.165 |
| 30 | 6 | 34 | 6.244 | 3109 | 59 | 3.93N | 65 | 21.33E | 58 | 40N | 65 | 46E | 633015 | 24592 | 151 | 41 | 24 | 2 | 2.021 |
| 31 | 6 | 34 | 8.864 | 2620 | 58 | 54.61N | 65 | 31.03E | 58 | 31N | 65 | 55E | 632582 | 24593 | 151 | 50 | 24 | 13 | 2.398 |
| 32 | 6 | 34 | 11.334 | 2470 | 58 | 45.81N | 65 | 40.89E | 58 | 22N | 66 | 4E | 632176 | 24594 | 151 | 59 | 24 | 23 | 2.544 |
| 33 | 6 | 34 | 13.734 | 2480 | 58 | 37.25N | 65 | 48.81E | 58 | 14N | 66 | 13E | 631782 | 24595 | 152 | 7 | 24 | 33 | 2.618 |
| 34 | 6 | 34 | 16.100 | 2365 | 58 | 28.80N | 65 | 57.34E | 58 | 5N | 66 | 21E | 631397 | 24596 | 152 | 16 | 24 | 42 | 2.657 |
| 35 | 6 | 34 | 18.449 | 2350 | 58 | 20.40N | 66 | 5.73E | 57 | 57N | 66 | 29E | 631016 | 24597 | 152 | 24 | 24 | 52 | 2.674 |
| 36 | 6 | 34 | 20.785 | 2336 | 58 | 12.03N | 66 | 14.81E | 57 | 48N | 66 | 38E | 630638 | 24597 | 152 | 32 | 25 | 1 | 2.690 |
| 37 | 6 | 34 | 23.114 | 2329 | 58 | 3.68N | 66 | 22.19E | 57 | 40N | 66 | 46E | 630264 | 24598 | 152 | 40 | 25 | 11 | 2.698 |
| 38 | 6 | 34 | 25.439 | 2325 | 57 | 55.33N | 66 | 30.30E | 57 | 31N | 66 | 54E | 629892 | 24599 | 152 | 48 | 25 | 20 | 2.702 |
| 39 | 6 | 34 | 27.755 | 2315 | 57 | 47.01N | 66 | 38.30E | 57 | 23N | 67 | 1E | 629522 | 24600 | 152 | 55 | 25 | 30 | 2.714 |
| 40 | 6 | 34 | 30.065 | 2311 | 57 | 38.70N | 66 | 46.22E | 57 | 15N | 67 | 9E | 629156 | 24601 | 153 | 3 | 25 | 39 | 2.719 |
| 41 | 6 | 34 | 32.385 | 2319 | 57 | 30.34N | 66 | 54.11E | 57 | 6N | 67 | 17E | 628789 | 24602 | 153 | 11 | 25 | 49 | 2.709 |
| 42 | 6 | 34 | 34.699 | 2315 | 57 | 21.99N | 67 | 1.91E | 56 | 58N | 67 | 25E | 628426 | 24603 | 153 | 18 | 25 | 58 | 2.714 |
| 43 | 6 | 34 | 37.085 | 2305 | 57 | 13.66N | 67 | 9.63E | 56 | 50N | 67 | 32E | 628064 | 24604 | 153 | 26 | 26 | 7 | 2.726 |
| 44 | 6 | 34 | 39.311 | 2306 | 57 | 5.33N | 67 | 17.28E | 56 | 41N | 67 | 40E | 627805 | 24604 | 153 | 33 | 26 | 17 | 2.725 |
| 45 | 6 | 34 | 41.619 | 2309 | 56 | 56.97N | 67 | 24.08E | 56 | 33N | 67 | 47E | 627348 | 24605 | 153 | 40 | 26 | 26 | 2.721 |

TOP SECRET

HANDLE VIA

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

| FRM | Z TIME | DTIM | CAMERA NADIR | | FORMAT CENTER | | ALTITUDE | | VELOC | | AZIMUTH | | SUN/ | | PITCH | | ROLL | | YAW | | SCAN |
|-----|--------|------|--------------|------|---------------|--------|----------|--------|-------|-----|---------|-----|--------|-------|-------|-----|------|-----|-----|-----|-------|
| HR | MI | SEC | MILS | LAT | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | RATE |
| 46 | 6 | 34 | 43.919 | 2300 | 56 | 48.64N | 67 | 32.39E | 56 | 24N | 67 | 55E | 626933 | 24686 | 153 | 48 | 26 | 35 | 14 | 48 | 2.732 |
| 47 | 6 | 34 | 46.220 | 2300 | 56 | 40.29N | 67 | 39.84E | 56 | 16N | 68 | 2E | 626639 | 24687 | 153 | 55 | 26 | 45 | 14 | 41 | 2.732 |
| 48 | 6 | 34 | 48.515 | 2295 | 56 | 31.96N | 67 | 47.22E | 56 | 8N | 68 | 9E | 626289 | 24688 | 154 | 2 | 26 | 54 | 14 | 42 | 2.738 |
| 49 | 6 | 34 | 50.810 | 2295 | 56 | 23.61N | 67 | 54.54E | 55 | 59N | 68 | 16E | 625940 | 24688 | 154 | 9 | 27 | 3 | 14 | 42 | 2.738 |
| 50 | 6 | 34 | 53.104 | 2295 | 56 | 15.26N | 68 | 1.80E | 55 | 51N | 68 | 24E | 625593 | 24689 | 154 | 16 | 27 | 13 | 14 | 43 | 2.738 |
| 51 | 6 | 34 | 55.395 | 2290 | 56 | 6.92N | 68 | 9.00E | 55 | 43N | 68 | 31E | 625248 | 24610 | 154 | 23 | 27 | 22 | 14 | 44 | 2.744 |
| 52 | 6 | 34 | 57.685 | 2290 | 55 | 58.57N | 68 | 16.13E | 55 | 34N | 68 | 38E | 624904 | 24611 | 154 | 30 | 27 | 31 | 14 | 44 | 2.744 |
| 53 | 6 | 34 | 59.975 | 2290 | 55 | 50.21N | 68 | 23.21E | 55 | 26N | 68 | 45E | 624564 | 24612 | 154 | 37 | 27 | 40 | 14 | 45 | 2.744 |
| 54 | 6 | 35 | 2.260 | 2285 | 55 | 41.86N | 68 | 30.22E | 55 | 18N | 68 | 51E | 624225 | 24612 | 154 | 43 | 27 | 50 | 14 | 46 | 2.750 |
| 55 | 6 | 35 | 4.544 | 2285 | 55 | 33.58N | 68 | 37.18E | 55 | 9N | 68 | 58E | 623887 | 24613 | 154 | 50 | 27 | 59 | 14 | 46 | 2.750 |
| 56 | 6 | 35 | 6.824 | 2280 | 55 | 25.16N | 68 | 44.07E | 55 | 1N | 69 | 5E | 623552 | 24614 | 154 | 57 | 28 | 8 | 14 | 47 | 2.756 |
| 57 | 6 | 35 | 9.109 | 2285 | 55 | 16.78N | 68 | 50.92E | 54 | 52N | 69 | 12E | 623219 | 24615 | 155 | 3 | 28 | 17 | 14 | 47 | 2.756 |
| 58 | 6 | 35 | 11.390 | 2280 | 55 | 8.42N | 68 | 57.71E | 54 | 44N | 69 | 19E | 622888 | 24616 | 155 | 10 | 28 | 27 | 14 | 48 | 2.756 |
| 59 | 6 | 35 | 13.665 | 2276 | 55 | 0.06N | 69 | 4.43E | 54 | 36N | 69 | 25E | 622559 | 24616 | 155 | 16 | 28 | 36 | 14 | 48 | 2.761 |
| 60 | 6 | 35 | 15.944 | 2279 | 54 | 51.69N | 69 | 11.11E | 54 | 27N | 69 | 32E | 622231 | 24617 | 155 | 23 | 28 | 45 | 14 | 48 | 2.757 |
| 61 | 6 | 35 | 18.220 | 2275 | 54 | 43.32N | 69 | 17.73E | 54 | 19N | 69 | 38E | 621905 | 24618 | 155 | 29 | 28 | 54 | 14 | 48 | 2.762 |
| 62 | 6 | 35 | 20.494 | 2275 | 54 | 34.95N | 69 | 24.30E | 54 | 11N | 69 | 45E | 621582 | 24619 | 155 | 35 | 29 | 3 | 14 | 48 | 2.762 |
| 63 | 6 | 35 | 22.770 | 2275 | 54 | 26.56N | 69 | 30.83E | 54 | 2N | 69 | 51E | 621260 | 24619 | 155 | 42 | 29 | 13 | 14 | 48 | 2.762 |
| 64 | 6 | 35 | 25.039 | 2270 | 54 | 18.19N | 69 | 37.28E | 53 | 54N | 69 | 57E | 620941 | 24620 | 155 | 48 | 29 | 22 | 14 | 48 | 2.768 |
| 65 | 6 | 35 | 27.305 | 2265 | 54 | 9.83N | 69 | 43.69E | 53 | 46N | 70 | 4E | 620628 | 24621 | 155 | 54 | 29 | 31 | 14 | 48 | 2.774 |
| 66 | 6 | 35 | 29.574 | 2270 | 54 | 1.45N | 69 | 50.05E | 53 | 37N | 70 | 10E | 620308 | 24622 | 156 | 0 | 29 | 40 | 14 | 48 | 2.768 |
| 67 | 6 | 35 | 31.841 | 2266 | 53 | 53.07N | 69 | 56.36E | 53 | 29N | 70 | 16E | 619994 | 24622 | 156 | 6 | 29 | 49 | 14 | 47 | 2.773 |
| 68 | 6 | 35 | 34.109 | 2269 | 53 | 44.67N | 70 | 2.63E | 53 | 20N | 70 | 22E | 619682 | 24623 | 156 | 12 | 29 | 58 | 14 | 46 | 2.769 |
| 69 | 6 | 35 | 36.369 | 2260 | 53 | 36.30N | 70 | 8.84E | 53 | 12N | 70 | 28E | 619373 | 24624 | 156 | 18 | 30 | 8 | 14 | 45 | 2.780 |
| 70 | 6 | 35 | 38.630 | 2260 | 53 | 27.92N | 70 | 15.00E | 53 | 4N | 70 | 34E | 619065 | 24625 | 156 | 24 | 30 | 17 | 14 | 44 | 2.780 |
| 71 | 6 | 35 | 40.890 | 2260 | 53 | 19.54N | 70 | 21.11E | 52 | 55N | 70 | 40E | 618759 | 24625 | 156 | 29 | 30 | 26 | 14 | 43 | 2.779 |
| 72 | 6 | 35 | 43.150 | 2261 | 53 | 11.15N | 70 | 27.18E | 52 | 47N | 70 | 46E | 618456 | 24626 | 156 | 35 | 30 | 35 | 14 | 41 | 2.786 |
| 73 | 6 | 35 | 45.414 | 2264 | 53 | 2.74N | 70 | 33.22E | 52 | 39N | 70 | 52E | 618153 | 24627 | 156 | 41 | 30 | 44 | 14 | 40 | 2.775 |
| 74 | 6 | 35 | 47.669 | 2255 | 52 | 54.36N | 70 | 39.19E | 52 | 30N | 70 | 58E | 617853 | 24627 | 156 | 47 | 30 | 53 | 14 | 39 | 2.786 |
| 75 | 6 | 35 | 49.925 | 2255 | 52 | 45.96N | 70 | 45.13E | 52 | 22N | 71 | 4E | 617555 | 24628 | 156 | 52 | 31 | 2 | 14 | 37 | 2.786 |
| 76 | 6 | 35 | 52.180 | 2255 | 52 | 37.57N | 70 | 51.02E | 52 | 14N | 71 | 10E | 617258 | 24629 | 156 | 58 | 31 | 11 | 14 | 36 | 2.786 |
| 77 | 6 | 35 | 54.435 | 2255 | 52 | 29.17N | 70 | 56.87E | 52 | 5N | 71 | 15E | 616965 | 24630 | 157 | 3 | 31 | 20 | 14 | 34 | 2.786 |
| 78 | 6 | 35 | 56.681 | 2246 | 52 | 20.79N | 71 | 2.65E | 51 | 57N | 71 | 21E | 616673 | 24630 | 157 | 9 | 31 | 29 | 14 | 33 | 2.798 |
| 79 | 6 | 35 | 58.935 | 2254 | 52 | 12.38N | 71 | 8.42E | 51 | 49N | 71 | 27E | 616382 | 24631 | 157 | 14 | 31 | 38 | 14 | 31 | 2.793 |
| 80 | 6 | 36 | 1.185 | 2250 | 52 | 3.98N | 71 | 14.13E | 51 | 40N | 71 | 32E | 616094 | 24632 | 157 | 20 | 31 | 47 | 14 | 29 | 2.793 |
| 81 | 6 | 36 | 3.435 | 2250 | 51 | 55.57N | 71 | 19.81E | 51 | 32N | 71 | 38E | 615808 | 24632 | 157 | 25 | 31 | 57 | 14 | 29 | 2.799 |
| 82 | 6 | 36 | 5.680 | 2245 | 51 | 47.17N | 71 | 25.44E | 51 | 23N | 71 | 43E | 615524 | 24633 | 157 | 30 | 32 | 6 | 14 | 28 | 2.799 |
| 83 | 6 | 36 | 7.926 | 2246 | 51 | 38.77N | 71 | 31.03E | 51 | 15N | 71 | 49E | 615242 | 24634 | 157 | 36 | 32 | 15 | 14 | 27 | 2.798 |
| 84 | 6 | 36 | 10.175 | 2249 | 51 | 30.35N | 71 | 36.59E | 51 | 7N | 71 | 54E | 614960 | 24634 | 157 | 41 | 32 | 24 | 14 | 27 | 2.794 |
| 85 | 6 | 36 | 12.419 | 2245 | 51 | 21.94N | 71 | 42.10E | 50 | 58N | 71 | 59E | 614682 | 24635 | 157 | 46 | 32 | 33 | 14 | 27 | 2.799 |
| 86 | 6 | 36 | 14.659 | 2240 | 51 | 13.54N | 71 | 47.56E | 50 | 50N | 72 | 5E | 614406 | 24636 | 157 | 51 | 32 | 42 | 14 | 27 | 2.805 |
| 87 | 6 | 36 | 16.904 | 2245 | 51 | 5.11N | 71 | 53.00E | 50 | 41N | 72 | 10E | 614131 | 24636 | 157 | 56 | 32 | 51 | 14 | 27 | 2.799 |
| 88 | 6 | 36 | 19.145 | 2240 | 50 | 56.70N | 71 | 58.40E | 50 | 33N | 72 | 15E | 613858 | 24637 | 158 | 1 | 33 | 0 | 14 | 27 | 2.805 |
| 89 | 6 | 36 | 21.390 | 2245 | 50 | 48.27N | 72 | 3.76E | 50 | 24N | 72 | 21E | 613587 | 24638 | 158 | 6 | 33 | 9 | 14 | 28 | 2.799 |
| 90 | 6 | 36 | 23.630 | 2240 | 50 | 39.85N | 72 | 9.09E | 50 | 16N | 72 | 26E | 613318 | 24638 | 158 | 11 | 33 | 18 | 14 | 28 | 2.805 |

TOP SECRET

HANDLE VIA

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1340 FWD 6MAR65

FRAME EPHEMERIS MISSION 1817-2

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| FRM | Z TIME | DTIM | CAMERA | NADR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|--------|--------|--------|-----------|-----------|--------|----------|--------|---------|--------|-------|-------|-------|-------|
| HR MI | SEC | MILS | LAT | LONG | MIN | DEG | FEET | F/S | DEG MI | DEG MI | MIN | MIN | MIN | RATE |
| 91 | 6 37 | 0.575 | 36946 | 48 28.23N | 73 32.08E | 47 50N | 73 46E | 609152 | 24648 | 159 29 | 35 48 | 14 27 | -0 27 | 0.170 |
| 92 | 6 37 | 3.631 | 3055 | 48 8.63N | 73 38.56E | 47 44N | 73 52E | 608831 | 24649 | 159 35 | 36 0 | 14 26 | -0 25 | 2.057 |
| 93 | 6 37 | 6.149 | 2519 | 47 59.05N | 73 43.87E | 47 35N | 73 58E | 608569 | 24650 | 159 39 | 36 10 | 14 26 | -0 24 | 2.494 |
| 94 | 6 37 | 8.521 | 2371 | 47 58.84N | 73 48.83E | 47 26N | 74 3E | 608324 | 24650 | 159 44 | 36 20 | 14 26 | -0 22 | 2.650 |
| 95 | 6 37 | 10.825 | 2305 | 47 41.27N | 73 53.62E | 47 17N | 74 7E | 608089 | 24651 | 159 48 | 36 29 | 14 26 | -0 20 | 2.726 |
| 96 | 6 37 | 13.104 | 2279 | 47 32.60N | 74 58.33E | 47 9N | 74 12E | 607858 | 24651 | 159 53 | 36 39 | 14 26 | -0 18 | 2.757 |
| 97 | 6 37 | 15.359 | 2255 | 47 24.01N | 74 7.96E | 47 0N | 74 17E | 607631 | 24652 | 159 57 | 36 48 | 14 26 | -0 15 | 2.786 |
| 98 | 6 37 | 17.604 | 2245 | 47 15.45N | 74 7.55E | 46 51N | 74 21E | 607408 | 24652 | 160 1 | 36 57 | 14 26 | -0 14 | 2.799 |
| 99 | 6 37 | 19.845 | 2240 | 47 6.91N | 74 12.09E | 46 43N | 74 26E | 607186 | 24653 | 160 5 | 37 6 | 14 26 | -0 12 | 2.805 |
| 00 | 6 37 | 22.080 | 2236 | 46 58.39N | 74 16.60E | 46 34N | 74 30E | 606967 | 24653 | 160 9 | 37 15 | 14 27 | -0 10 | 2.810 |
| 01 | 6 37 | 24.319 | 2239 | 46 49.84N | 74 21.09E | 46 26N | 74 35E | 606750 | 24654 | 160 14 | 37 24 | 14 27 | -0 9 | 2.806 |
| 02 | 6 37 | 26.555 | 2235 | 46 41.31N | 74 25.55E | 46 17N | 74 39E | 606536 | 24654 | 160 18 | 37 33 | 14 27 | -0 8 | 2.811 |
| 03 | 6 37 | 28.784 | 2230 | 46 32.80N | 74 29.97E | 46 9N | 74 44E | 606323 | 24655 | 160 22 | 37 42 | 14 28 | -0 8 | 2.818 |
| 04 | 6 37 | 31.011 | 2226 | 46 24.29N | 74 34.35E | 46 0N | 74 48E | 606113 | 24656 | 160 26 | 37 51 | 14 28 | -0 7 | 2.823 |
| 05 | 6 37 | 33.239 | 2229 | 46 15.77N | 74 38.72E | 45 52N | 74 52E | 605905 | 24656 | 160 30 | 38 0 | 14 28 | -0 7 | 2.819 |
| 06 | 6 37 | 35.475 | 2235 | 46 7.22N | 74 43.07E | 45 43N | 74 57E | 605698 | 24657 | 160 33 | 38 9 | 14 28 | -0 7 | 2.811 |
| 07 | 6 37 | 37.695 | 2221 | 45 58.72N | 74 47.37E | 45 35N | 75 1E | 605494 | 24657 | 160 37 | 38 18 | 14 28 | -0 7 | 2.829 |
| 08 | 6 37 | 39.919 | 2224 | 45 50.21N | 74 51.65E | 45 26N | 75 5E | 605293 | 24657 | 160 41 | 38 27 | 14 28 | -0 7 | 2.825 |
| 09 | 6 37 | 42.145 | 2225 | 45 41.69N | 74 55.91E | 45 18N | 75 9E | 605093 | 24658 | 160 45 | 38 36 | 14 29 | -0 7 | 2.824 |
| 10 | 6 37 | 44.374 | 2230 | 45 33.15N | 75 0.15E | 45 9N | 75 13E | 604894 | 24658 | 160 49 | 38 45 | 14 29 | -0 7 | 2.818 |
| 11 | 6 37 | 46.595 | 2220 | 45 24.63N | 75 4.36E | 45 1N | 75 17E | 604698 | 24659 | 160 53 | 38 54 | 14 29 | -0 7 | 2.830 |
| 12 | 6 37 | 48.815 | 2229 | 45 16.12N | 75 8.54E | 45 2N | 75 22E | 604505 | 24659 | 160 56 | 39 3 | 14 29 | -0 7 | 2.829 |
| 13 | 6 37 | 51.044 | 2229 | 45 7.57N | 75 12.71E | 44 44N | 75 26E | 604312 | 24660 | 161 0 | 39 12 | 14 30 | -0 7 | 2.819 |
| 14 | 6 37 | 53.274 | 2230 | 44 59.81N | 75 16.86E | 44 35N | 75 30E | 604121 | 24660 | 161 4 | 39 21 | 14 30 | -0 7 | 2.818 |
| 15 | 6 37 | 55.499 | 2225 | 44 50.47N | 75 20.97E | 44 26N | 75 34E | 603934 | 24661 | 161 8 | 39 30 | 14 30 | -0 7 | 2.824 |
| 16 | 6 37 | 57.721 | 2221 | 44 41.94N | 75 25.06E | 44 18N | 75 38E | 603748 | 24661 | 161 11 | 39 39 | 14 30 | -0 7 | 2.829 |
| 17 | 6 38 | 49.734 | 52015 | 41 21.24N | 76 54.73E | 40 57N | 77 6E | 599982 | 24670 | 162 30 | 43 10 | 14 33 | -0 8 | 0.121 |
| 18 | 6 38 | 52.743 | 3009 | 41 9.58N | 76 59.59E | 40 45N | 77 11E | 599799 | 24671 | 162 34 | 43 22 | 14 34 | -0 7 | 2.008 |
| 19 | 6 38 | 55.248 | 2505 | 40 59.86N | 77 3.61E | 40 36N | 77 15E | 599649 | 24671 | 162 38 | 43 32 | 14 34 | -0 5 | 2.508 |
| 20 | 6 38 | 57.594 | 2345 | 40 50.77N | 77 7.35E | 40 27N | 77 19E | 599512 | 24671 | 162 41 | 43 41 | 14 34 | -0 5 | 2.679 |
| 21 | 6 38 | 59.879 | 2285 | 40 41.90N | 77 10.98E | 40 18N | 77 22E | 599380 | 24672 | 162 44 | 43 51 | 14 34 | -0 5 | 2.750 |
| 22 | 6 39 | 2.134 | 2255 | 40 33.15N | 77 14.54E | 40 9N | 77 26E | 599252 | 24672 | 162 47 | 44 4 | 14 34 | -0 4 | 2.766 |
| 23 | 6 39 | 4.379 | 2245 | 40 24.44N | 77 18.07E | 40 0N | 77 29E | 599127 | 24672 | 162 50 | 44 9 | 14 35 | -0 3 | 2.799 |
| 24 | 6 39 | 6.608 | 2230 | 40 15.78N | 77 21.56E | 39 52N | 77 33E | 599006 | 24673 | 162 53 | 44 18 | 14 35 | -0 3 | 2.818 |
| 25 | 6 39 | 8.848 | 2231 | 40 7.11N | 77 25.04E | 39 43N | 77 36E | 598886 | 24673 | 162 56 | 44 27 | 14 36 | -0 2 | 2.816 |
| 26 | 6 39 | 11.069 | 2230 | 39 58.45N | 77 28.49E | 39 34N | 77 40E | 598768 | 24674 | 162 59 | 44 36 | 14 36 | -0 2 | 2.818 |
| 27 | 6 39 | 13.294 | 2225 | 39 49.80N | 77 31.92E | 39 26N | 77 43E | 598653 | 24674 | 163 2 | 44 45 | 14 36 | -0 1 | 2.824 |
| 28 | 6 39 | 15.519 | 2224 | 39 41.16N | 77 35.33E | 39 17N | 77 46E | 598549 | 24674 | 163 5 | 44 54 | 14 36 | -0 1 | 2.825 |
| 29 | 6 39 | 17.743 | 2225 | 39 32.50N | 77 38.73E | 39 8N | 77 50E | 598429 | 24674 | 163 8 | 45 3 | 14 36 | -0 1 | 2.824 |
| 30 | 6 39 | 19.969 | 2225 | 39 23.85N | 77 42.11E | 39 0N | 77 53E | 598321 | 24674 | 163 11 | 45 12 | 14 36 | -0 1 | 2.824 |
| 31 | 6 39 | 22.188 | 2220 | 39 15.21N | 77 45.47E | 38 51N | 77 56E | 598214 | 24675 | 163 14 | 45 21 | 14 36 | -0 1 | 2.830 |
| 32 | 6 39 | 24.408 | 2220 | 39 6.57N | 77 48.81E | 38 42N | 78 0E | 598110 | 24675 | 163 16 | 45 30 | 14 36 | -0 1 | 2.830 |
| 33 | 6 39 | 26.630 | 2221 | 38 57.92N | 77 52.14E | 38 34N | 78 3E | 598008 | 24675 | 163 19 | 45 39 | 14 36 | -0 1 | 2.829 |
| 34 | 6 39 | 28.854 | 2224 | 38 49.26N | 77 55.45E | 38 25N | 78 6E | 597908 | 24675 | 163 22 | 45 48 | 14 36 | -0 1 | 2.825 |
| 35 | 6 39 | 31.073 | 2220 | 38 40.62N | 77 58.75E | 38 16N | 78 9E | 597810 | 24676 | 163 25 | 45 57 | 14 36 | -0 1 | 2.830 |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

PASS 1340 FWD 6MAR65

FRAME EPHEMERIS . MISSION 1017-2

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SPECIAL HANDLING REQUIRED

| FRM | HR | MI | SEC | DTIM | MILS | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | DEG | DEG | MI | DEG | SUN/ | PITCH | ROLL | YAW | SCAN |
|-----|------|----|--------|------|------|--------|-----|--------|------|-----|-----|-----|--------|----------|-------|-----|-----|----|-----|------|-------|------|-------|------|
| 2 | TIME | | | | | MIN | MIN | MIN | MIN | MIN | MIN | MIN | MIN | FEET | F/S | MI | MI | MI | MI | MI | MIN | MIN | MIN | RATE |
| 136 | 6 | 39 | 33.293 | 2220 | 38 | 31.97N | 78 | 2.02E | 38 | 8N | 78 | 13E | 597715 | 24676 | 163 | 27 | 46 | 6 | 14 | 36 | -0 | 1 | 2.836 | |
| 137 | 6 | 39 | 35.514 | 2220 | 38 | 23.31N | 78 | 5.29E | 37 | 59N | 78 | 16E | 597621 | 24676 | 163 | 30 | 46 | 15 | 14 | 35 | -0 | 1 | 2.836 | |
| 138 | 6 | 39 | 37.729 | 2215 | 38 | 14.68N | 78 | 8.53E | 37 | 58N | 78 | 19E | 597531 | 24676 | 163 | 33 | 46 | 24 | 14 | 35 | -0 | 1 | 2.837 | |
| 139 | 6 | 39 | 39.948 | 2220 | 38 | 6.02N | 78 | 11.76E | 37 | 42N | 78 | 22E | 597442 | 24677 | 163 | 36 | 46 | 32 | 14 | 35 | -0 | 1 | 2.836 | |
| 140 | 6 | 39 | 42.163 | 2215 | 37 | 57.38N | 78 | 14.97E | 37 | 33N | 78 | 25E | 597355 | 24677 | 163 | 38 | 46 | 41 | 14 | 34 | -0 | 1 | 2.837 | |
| 141 | 6 | 39 | 44.373 | 2210 | 37 | 48.76N | 78 | 18.16E | 37 | 25N | 78 | 29E | 597271 | 24677 | 163 | 41 | 46 | 50 | 14 | 34 | -0 | 1 | 2.843 | |
| 142 | 6 | 39 | 46.590 | 2216 | 37 | 40.11N | 78 | 21.35E | 37 | 16N | 78 | 32E | 597189 | 24677 | 163 | 44 | 46 | 59 | 14 | 33 | -0 | 1 | 2.835 | |
| 143 | 6 | 39 | 48.809 | 2219 | 37 | 31.45N | 78 | 24.52E | 37 | 7N | 78 | 35E | 597110 | 24677 | 163 | 46 | 47 | 8 | 14 | 33 | -0 | 1 | 2.832 | |
| 144 | 6 | 39 | 51.024 | 2216 | 37 | 22.79N | 78 | 27.68E | 36 | 59N | 78 | 38E | 597032 | 24678 | 163 | 49 | 47 | 17 | 14 | 33 | -0 | 1 | 2.835 | |
| 145 | 6 | 39 | 53.238 | 2214 | 37 | 14.15N | 78 | 30.81E | 36 | 50N | 78 | 41E | 596956 | 24678 | 163 | 51 | 47 | 26 | 14 | 32 | -0 | 2 | 2.838 | |
| 146 | 6 | 39 | 55.458 | 2220 | 37 | 5.48N | 78 | 33.95E | 36 | 41N | 78 | 44E | 596883 | 24678 | 163 | 54 | 47 | 35 | 14 | 32 | -0 | 2 | 2.836 | |
| 147 | 6 | 39 | 57.674 | 2215 | 36 | 56.82N | 78 | 37.06E | 36 | 33N | 78 | 47E | 596812 | 24678 | 163 | 56 | 47 | 44 | 14 | 31 | -0 | 2 | 2.837 | |
| 148 | 6 | 39 | 59.889 | 2215 | 36 | 48.16N | 78 | 40.16E | 36 | 24N | 78 | 50E | 596743 | 24678 | 163 | 59 | 47 | 53 | 14 | 31 | -0 | 3 | 2.837 | |
| 149 | 6 | 40 | 2.104 | 2215 | 36 | 39.58N | 78 | 43.24E | 36 | 15N | 78 | 53E | 596676 | 24679 | 164 | 1 | 48 | 2 | 14 | 30 | -0 | 3 | 2.837 | |
| 150 | 6 | 40 | 4.318 | 2215 | 36 | 30.84N | 78 | 46.31E | 36 | 7N | 78 | 56E | 596612 | 24679 | 164 | 4 | 48 | 11 | 14 | 29 | -0 | 3 | 2.837 | |
| 151 | 6 | 40 | 6.533 | 2215 | 36 | 22.18N | 78 | 49.37E | 35 | 58N | 78 | 59E | 596550 | 24679 | 164 | 6 | 48 | 20 | 14 | 28 | -0 | 5 | 2.837 | |
| 152 | 6 | 40 | 8.748 | 2215 | 36 | 13.52N | 78 | 52.41E | 35 | 49N | 79 | 2E | 596490 | 24679 | 164 | 9 | 48 | 29 | 14 | 28 | -0 | 5 | 2.837 | |
| 153 | 6 | 40 | 10.964 | 2215 | 36 | 4.84N | 78 | 55.44E | 35 | 41N | 79 | 5E | 596432 | 24679 | 164 | 11 | 48 | 37 | 14 | 27 | -0 | 5 | 2.837 | |
| 154 | 6 | 40 | 13.179 | 2215 | 35 | 56.18N | 78 | 58.46E | 35 | 32N | 79 | 8E | 596376 | 24679 | 164 | 14 | 48 | 46 | 14 | 27 | -0 | 5 | 2.837 | |
| 155 | 6 | 40 | 15.394 | 2215 | 35 | 47.50N | 79 | 1.46E | 35 | 23N | 79 | 11E | 596323 | 24679 | 164 | 16 | 48 | 55 | 14 | 26 | -0 | 6 | 2.837 | |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

ICS 04888-04

PASS 135D FWD 6MAR65

FRAME EPHEMERIS . MISSION 1017-2

ID 43

LIST DATE 10MAY65

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| FRM | 2 TIME | DTIM | CAMERA | FORMAT | ALTITUDE | VELOC | DEG AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | | | | | | | | | | |
|-----|--------|------|---------|---------|----------|--------|-------------|--------|---------|---------|---------|------|--------|-------|-----|----|----|----|----|----|----|----|----|-------|
| HR | MI | SEC | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE | | | | | | | | | | | | |
| 1 | 8 | 3 | 16.903 | 0 | 61 | 17.79N | 40 | 9.75E | 60 | 54N | 40 | 39E | 638888 | 24578 | 149 | 12 | 21 | 27 | 14 | 45 | -0 | 19 | ND | 1.970 |
| 2 | 8 | 3 | 20.094 | 3190 | 61 | 6.72N | 40 | 23.36E | 60 | 43N | 40 | 52E | 638328 | 24579 | 149 | 25 | 21 | 40 | 14 | 45 | -0 | 20 | ND | 1.970 |
| 3 | 8 | 3 | 22.768 | 2674 | 60 | 57.43N | 40 | 34.64E | 60 | 34N | 41 | 3E | 637861 | 24580 | 149 | 36 | 21 | 50 | 14 | 44 | -0 | 22 | ND | 2.350 |
| 4 | 8 | 3 | 25.282 | 2515 | 60 | 48.67N | 40 | 45.15E | 60 | 25N | 41 | 14E | 637424 | 24581 | 149 | 47 | 22 | 1 | 14 | 44 | -0 | 22 | ND | 2.498 |
| 5 | 8 | 3 | 27.723 | 2440 | 60 | 40.15N | 40 | 55.25E | 60 | 16N | 41 | 23E | 637001 | 24582 | 149 | 56 | 22 | 10 | 14 | 44 | -0 | 23 | ND | 2.575 |
| 6 | 8 | 3 | 30.133 | 2410 | 60 | 31.73N | 41 | 5.13E | 60 | 8N | 41 | 33E | 636586 | 24583 | 150 | 6 | 22 | 20 | 14 | 43 | -0 | 23 | ND | 2.607 |
| 7 | 8 | 3 | 32.519 | 2386 | 60 | 23.38N | 41 | 14.82E | 59 | 59N | 41 | 42E | 636176 | 24584 | 150 | 16 | 22 | 30 | 14 | 43 | -0 | 23 | ND | 2.633 |
| 8 | 8 | 3 | 34.897 | 2379 | 60 | 15.04N | 41 | 24.40E | 59 | 51N | 41 | 52E | 635769 | 24585 | 150 | 25 | 22 | 39 | 14 | 42 | -0 | 23 | ND | 2.641 |
| 9 | 8 | 3 | 37.263 | 2365 | 60 | 6.73N | 41 | 33.84E | 59 | 43N | 42 | 1E | 635366 | 24586 | 150 | 34 | 22 | 49 | 14 | 42 | -0 | 22 | ND | 2.657 |
| 10 | 8 | 3 | 39.627 | 2365 | 59 | 58.41N | 41 | 43.19E | 59 | 34N | 42 | 10E | 634965 | 24587 | 150 | 43 | 22 | 58 | 14 | 42 | -0 | 21 | ND | 2.657 |
| 11 | 8 | 3 | 41.982 | 2355 | 59 | 50.12N | 41 | 52.42E | 59 | 26N | 42 | 19E | 634567 | 24588 | 150 | 52 | 23 | 8 | 14 | 41 | -0 | 21 | ND | 2.668 |
| 12 | 8 | 3 | 44.338 | 2355 | 59 | 41.81N | 42 | 1.58E | 59 | 18N | 42 | 28E | 634171 | 24589 | 151 | 1 | 23 | 18 | 14 | 41 | -0 | 20 | ND | 2.668 |
| 13 | 8 | 3 | 46.692 | 2355 | 59 | 33.49N | 42 | 10.65E | 59 | 10N | 42 | 37E | 633776 | 24590 | 151 | 10 | 23 | 27 | 14 | 41 | -0 | 19 | ND | 2.668 |
| 14 | 8 | 3 | 49.037 | 2345 | 59 | 25.19N | 42 | 19.60E | 59 | 1N | 42 | 46E | 633385 | 24591 | 151 | 19 | 23 | 37 | 14 | 41 | -0 | 18 | ND | 2.679 |
| 15 | 8 | 3 | 51.383 | 2345 | 59 | 16.88N | 42 | 28.40E | 58 | 53N | 42 | 54E | 632995 | 24592 | 151 | 27 | 23 | 46 | 14 | 41 | -0 | 16 | ND | 2.679 |
| 16 | 8 | 3 | 53.728 | 2345 | 59 | 8.55N | 42 | 37.28E | 58 | 45N | 43 | 3E | 632608 | 24592 | 151 | 36 | 23 | 55 | 14 | 41 | -0 | 15 | ND | 2.691 |
| 17 | 8 | 3 | 56.063 | 2335 | 59 | 0.26N | 42 | 45.97E | 58 | 36N | 43 | 12E | 632224 | 24593 | 151 | 44 | 24 | 5 | 14 | 42 | -0 | 13 | ND | 2.691 |
| 18 | 8 | 3 | 58.402 | 2340 | 58 | 51.93N | 42 | 54.61E | 58 | 28N | 43 | 20E | 631839 | 24594 | 151 | 53 | 24 | 14 | 14 | 42 | -0 | 12 | ND | 2.685 |
| 19 | 8 | 4 | 0.737 | 2335 | 58 | 43.61N | 43 | 3.15E | 58 | 20N | 43 | 28E | 631457 | 24595 | 152 | 1 | 24 | 24 | 14 | 43 | -0 | 11 | ND | 2.691 |
| 20 | 8 | 4 | 3.063 | 2325 | 58 | 35.31N | 43 | 11.58E | 58 | 11N | 43 | 37E | 631088 | 24596 | 152 | 9 | 24 | 33 | 14 | 44 | -0 | 10 | ND | 2.702 |
| 21 | 8 | 4 | 5.393 | 2330 | 58 | 26.99N | 43 | 19.97E | 58 | 3N | 43 | 45E | 630703 | 24597 | 152 | 17 | 24 | 43 | 14 | 45 | -0 | 9 | ND | 2.697 |
| 22 | 8 | 4 | 7.723 | 2330 | 58 | 18.65N | 43 | 28.28E | 57 | 55N | 43 | 53E | 630327 | 24598 | 152 | 26 | 25 | 52 | 14 | 46 | -0 | 9 | ND | 2.697 |
| 23 | 8 | 4 | 10.049 | 2326 | 58 | 10.32N | 43 | 36.51E | 57 | 46N | 44 | 1E | 629954 | 24599 | 152 | 34 | 25 | 2 | 14 | 48 | -0 | 8 | ND | 2.701 |
| 24 | 8 | 4 | 12.372 | 2324 | 58 | 1.98N | 43 | 44.66E | 57 | 38N | 44 | 9E | 629583 | 24600 | 152 | 41 | 25 | 11 | 14 | 48 | -0 | 8 | ND | 2.701 |
| 25 | 8 | 4 | 14.692 | 2320 | 57 | 53.65N | 43 | 52.73E | 57 | 29N | 44 | 17E | 629214 | 24600 | 152 | 49 | 25 | 21 | 14 | 49 | -0 | 7 | ND | 2.708 |
| 26 | 8 | 4 | 17.013 | 2320 | 57 | 45.31N | 44 | 0.74E | 57 | 21N | 44 | 25E | 628847 | 24601 | 152 | 57 | 25 | 30 | 14 | 51 | -0 | 7 | ND | 2.708 |
| 27 | 8 | 4 | 19.327 | 2315 | 57 | 36.98N | 44 | 8.66E | 57 | 13N | 44 | 33E | 628482 | 24602 | 153 | 5 | 25 | 39 | 14 | 51 | -0 | 7 | ND | 2.714 |
| 28 | 8 | 4 | 21.643 | 2315 | 57 | 28.63N | 44 | 16.52E | 57 | 4N | 44 | 40E | 628128 | 24603 | 153 | 12 | 25 | 49 | 14 | 52 | -0 | 7 | ND | 2.714 |
| 29 | 8 | 4 | 23.952 | 2310 | 57 | 20.30N | 44 | 24.29E | 56 | 56N | 44 | 48E | 627759 | 24604 | 153 | 20 | 25 | 58 | 14 | 53 | -0 | 7 | ND | 2.720 |
| 30 | 8 | 4 | 26.264 | 2311 | 57 | 11.95N | 44 | 32.02E | 56 | 48N | 44 | 56E | 627408 | 24605 | 153 | 27 | 26 | 8 | 14 | 54 | -0 | 7 | ND | 2.719 |
| 31 | 8 | 4 | 28.577 | 2314 | 57 | 3.58N | 44 | 39.68E | 56 | 39N | 44 | 3E | 627042 | 24606 | 153 | 35 | 26 | 17 | 14 | 55 | -0 | 7 | ND | 2.715 |
| 32 | 8 | 4 | 30.888 | 2310 | 56 | 55.21N | 44 | 47.28E | 56 | 31N | 44 | 11E | 626686 | 24606 | 153 | 42 | 26 | 26 | 14 | 56 | -0 | 7 | ND | 2.720 |
| 33 | 8 | 4 | 33.192 | 2305 | 56 | 46.86N | 44 | 54.79E | 56 | 22N | 44 | 18E | 626333 | 24607 | 153 | 49 | 26 | 36 | 14 | 57 | -0 | 7 | ND | 2.726 |
| 34 | 8 | 4 | 35.497 | 2305 | 56 | 38.50N | 45 | 2.25E | 56 | 14N | 45 | 25E | 625983 | 24608 | 153 | 56 | 26 | 45 | 14 | 58 | -0 | 7 | ND | 2.726 |
| 35 | 8 | 4 | 37.805 | 2307 | 56 | 30.12N | 45 | 9.65E | 56 | 6N | 45 | 32E | 625633 | 24609 | 154 | 4 | 26 | 54 | 14 | 58 | -0 | 7 | ND | 2.724 |
| 36 | 8 | 4 | 40.103 | 2298 | 56 | 21.76N | 45 | 16.97E | 55 | 57N | 45 | 40E | 625285 | 24610 | 154 | 11 | 27 | 4 | 14 | 59 | -0 | 8 | ND | 2.734 |
| 37 | 8 | 4 | 42.400 | 2298 | 56 | 13.39N | 45 | 24.23E | 55 | 49N | 45 | 47E | 624941 | 24611 | 154 | 18 | 27 | 13 | 14 | 60 | -0 | 8 | ND | 2.734 |
| 38 | 8 | 4 | 44.697 | 2297 | 56 | 5.03N | 45 | 31.43E | 55 | 40N | 45 | 54E | 624597 | 24611 | 154 | 25 | 27 | 22 | 15 | 1 | -0 | 9 | ND | 2.735 |
| 39 | 8 | 4 | 46.992 | 2295 | 55 | 56.65N | 45 | 38.57E | 55 | 32N | 46 | 1E | 624257 | 24612 | 154 | 31 | 27 | 32 | 15 | 1 | -0 | 9 | ND | 2.738 |
| 40 | 8 | 4 | 49.287 | 2295 | 55 | 48.27N | 45 | 45.65E | 55 | 24N | 46 | 8E | 623918 | 24613 | 154 | 38 | 27 | 41 | 15 | 1 | -0 | 9 | ND | 2.738 |
| 41 | 8 | 4 | 51.577 | 2290 | 55 | 39.90N | 45 | 52.66E | 55 | 15N | 46 | 14E | 623581 | 24614 | 154 | 45 | 27 | 50 | 15 | 2 | -0 | 9 | ND | 2.744 |
| 42 | 8 | 4 | 53.867 | 2290 | 55 | 31.53N | 45 | 59.63E | 55 | 7N | 46 | 21E | 623245 | 24615 | 154 | 52 | 27 | 59 | 15 | 2 | -0 | 10 | ND | 2.744 |
| 43 | 8 | 4 | 56.157 | 2290 | 55 | 23.14N | 46 | 6.53E | 54 | 58N | 46 | 28E | 622912 | 24615 | 154 | 58 | 28 | 9 | 15 | 3 | -0 | 10 | ND | 2.744 |
| 44 | 8 | 4 | 58.447 | 2290 | 55 | 14.75N | 46 | 13.39E | 54 | 50N | 46 | 35E | 622580 | 24616 | 155 | 5 | 28 | 18 | 15 | 3 | -0 | 10 | ND | 2.744 |
| 45 | 8 | 5 | 0.728 | 2280 | 55 | 6.38N | 46 | 20.16E | 54 | 42N | 46 | 41E | 622251 | 24617 | 155 | 11 | 28 | 27 | 15 | 4 | -0 | 10 | ND | 2.756 |

TOP SECRET

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TALENT-KEYHOLE
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SCAN RATE

2.756

PASS 1350 FWD 6MAR65

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| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | LAT | DEG | LAT | DEG | MIN | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MI | DEG | MI | PITCH | DEG | MIN | ROLL | DEG | MIN | DEG | MIN | YAW | DEG | MIN | SCAN RATE | | | | | | |
|-----|----|----|--------|------|-----|--------|-----|--------|-----|-----|-----|-----|--------|-------|-----|-----|------|-----|-----|----|-----|----|-----|----|-------|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----------|----|----|----|----|----|----|
| 46 | 8 | 5 | 3.008 | 2280 | 54 | 58.01N | 46 | 26.89E | 54 | 33N | 46 | 48E | 621925 | 24618 | 155 | 18 | 28 | 37 | 15 | 4 | 15 | 4 | 15 | 4 | 15 | 4 | 15 | 4 | 15 | 4 | 15 | 4 | 15 | 4 | 15 | 4 | 15 | 4 | 15 | 4 | | |
| 47 | 8 | 5 | 5.292 | 2285 | 54 | 49.61N | 46 | 33.57E | 54 | 25N | 46 | 54E | 621599 | 24618 | 155 | 24 | 28 | 46 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 |
| 48 | 8 | 5 | 7.572 | 2288 | 54 | 41.22N | 46 | 40.19E | 54 | 16N | 47 | 1E | 621275 | 24619 | 155 | 31 | 28 | 55 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 | 15 | 5 |
| 49 | 8 | 5 | 9.849 | 2276 | 54 | 32.84N | 46 | 46.76E | 54 | 8N | 47 | 7E | 620954 | 24620 | 155 | 37 | 29 | 4 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 |
| 50 | 8 | 5 | 12.127 | 2279 | 54 | 24.44N | 46 | 53.29E | 54 | 0N | 47 | 14E | 620635 | 24621 | 155 | 43 | 29 | 14 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 |
| 51 | 8 | 5 | 14.402 | 2275 | 54 | 16.05N | 46 | 59.74E | 54 | 51N | 47 | 20E | 620301 | 24621 | 155 | 49 | 29 | 23 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 | 15 | 6 |
| 52 | 8 | 5 | 16.683 | 2278 | 54 | 7.63N | 47 | 6.17E | 54 | 34N | 47 | 32E | 619688 | 24623 | 156 | 1 | 29 | 41 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 |
| 53 | 8 | 5 | 18.952 | 2270 | 53 | 59.24N | 47 | 12.53E | 53 | 34N | 47 | 32E | 619688 | 24623 | 156 | 1 | 29 | 41 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 |
| 54 | 8 | 5 | 21.224 | 2271 | 53 | 50.84N | 47 | 18.84E | 53 | 26N | 47 | 39E | 619376 | 24624 | 156 | 8 | 29 | 50 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 | 15 | 7 |
| 55 | 8 | 5 | 23.492 | 2269 | 53 | 42.45N | 47 | 25.10E | 53 | 17N | 47 | 45E | 619067 | 24624 | 156 | 13 | 30 | 0 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 |
| 56 | 8 | 5 | 25.763 | 2270 | 53 | 34.04N | 47 | 31.32E | 53 | 9N | 47 | 51E | 618760 | 24625 | 156 | 19 | 30 | 9 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 |
| 57 | 8 | 5 | 28.032 | 2270 | 53 | 25.62N | 47 | 37.49E | 53 | 1N | 47 | 57E | 618453 | 24626 | 156 | 25 | 30 | 18 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 |
| 58 | 8 | 5 | 30.309 | 2276 | 53 | 17.18N | 47 | 43.64E | 52 | 52N | 48 | 3E | 618148 | 24627 | 156 | 31 | 30 | 27 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 |
| 59 | 8 | 5 | 32.573 | 2265 | 53 | 8.77N | 47 | 49.71E | 52 | 44N | 48 | 9E | 617846 | 24627 | 156 | 37 | 30 | 36 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 |
| 60 | 8 | 5 | 34.822 | 2249 | 53 | 0.41N | 47 | 55.70E | 52 | 35N | 48 | 15E | 617548 | 24628 | 156 | 43 | 30 | 46 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 |
| 61 | 8 | 5 | 37.088 | 2265 | 52 | 51.98N | 48 | 1.09E | 52 | 27N | 48 | 20E | 617250 | 24629 | 156 | 48 | 30 | 55 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 |
| 62 | 8 | 5 | 39.348 | 2260 | 52 | 43.57N | 48 | 7.02E | 52 | 18N | 48 | 26E | 616954 | 24629 | 156 | 54 | 31 | 4 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 |
| 63 | 8 | 5 | 41.607 | 2260 | 52 | 35.16N | 48 | 13.51E | 52 | 10N | 48 | 32E | 616660 | 24630 | 156 | 59 | 31 | 13 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 |
| 64 | 8 | 5 | 43.867 | 2260 | 52 | 26.74N | 48 | 19.36E | 52 | 2N* | 48 | 38E | 616369 | 24631 | 157 | 5 | 31 | 22 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 |
| 65 | 8 | 5 | 46.127 | 2260 | 52 | 18.31N | 48 | 25.17E | 51 | 53N | 48 | 43E | 616078 | 24632 | 157 | 10 | 31 | 31 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 |
| 66 | 8 | 5 | 48.383 | 2255 | 52 | 9.89N | 48 | 30.93E | 51 | 45N | 48 | 49E | 615790 | 24632 | 157 | 16 | 31 | 40 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 |
| 67 | 8 | 5 | 50.639 | 2256 | 52 | 1.46N | 48 | 36.65E | 51 | 36N | 48 | 55E | 615504 | 24633 | 157 | 21 | 31 | 50 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 |
| 68 | 8 | 5 | 52.894 | 2255 | 51 | 53.03N | 48 | 42.33E | 51 | 28N | 49 | 0E | 615220 | 24634 | 157 | 27 | 31 | 59 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 |
| 69 | 8 | 5 | 55.148 | 2255 | 51 | 44.60N | 48 | 47.97E | 51 | 19N | 49 | 6E | 614937 | 24634 | 157 | 32 | 32 | 8 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 |
| 70 | 8 | 5 | 57.402 | 2254 | 51 | 36.16N | 48 | 53.56E | 51 | 11N | 49 | 11E | 614657 | 24635 | 157 | 37 | 32 | 17 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 |
| 71 | 8 | 5 | 59.652 | 2250 | 51 | 27.73N | 48 | 59.12E | 51 | 3N | 49 | 17E | 614379 | 24636 | 157 | 43 | 32 | 26 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 |
| 72 | 8 | 6 | 1.902 | 2250 | 51 | 19.30N | 49 | 4.63E | 50 | 54N | 49 | 22E | 614102 | 24636 | 157 | 48 | 32 | 35 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 |
| 73 | 8 | 6 | 4.148 | 2246 | 51 | 10.88N | 49 | 10.18E | 50 | 46N | 49 | 27E | 613828 | 24637 | 157 | 53 | 32 | 44 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 |
| 74 | 8 | 6 | 6.397 | 2249 | 51 | 2.44N | 49 | 15.54E | 50 | 37N | 49 | 33E | 613556 | 24638 | 157 | 58 | 32 | 53 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 |
| 75 | 8 | 6 | 8.643 | 2245 | 50 | 54.00N | 49 | 20.93E | 50 | 29N | 49 | 38E | 613286 | 24638 | 158 | 3 | 33 | 3 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 |
| 76 | 8 | 6 | 10.888 | 2245 | 50 | 45.57N | 49 | 26.29E | 50 | 20N | 49 | 43E | 613017 | 24639 | 158 | 8 | 33 | 12 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 | 15 | 11 |
| 77 | 8 | 6 | 13.128 | 2241 | 50 | 37.14N | 49 | 31.60E | 50 | 12N | 49 | 48E | 612751 | 24639 | 158 | 13 | 33 | 21 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 |
| 78 | 8 | 6 | 15.377 | 2249 | 50 | 28.68N | 49 | 36.89E | 50 | 3N | 49 | 54E | 612486 | 24640 | 158 | 18 | 33 | 30 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 |
| 79 | 8 | 6 | 17.617 | 2240 | 50 | 20.25N | 49 | 42.14E | 49 | 55N | 49 | 59E | 612223 | 24641 | 158 | 23 | 33 | 39 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 | 15 | 10 |
| 80 | 8 | 6 | 19.862 | 2245 | 50 | 11.79N | 49 | 47.35E | 49 | 47N | 50 | 4E | 611963 | 24641 | 158 | 28 | 33 | 48 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 | 15 | 9 |
| 81 | 8 | 6 | 22.103 | 2240 | 50 | 3.34N | 49 | 52.53E | 49 | 38N | 50 | 9E | 611704 | 24642 | 158 | 33 | 33 | 57 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 | 15 | 8 |
| 82 | 8 | 6 | 24.348 | 2245 | 49 | 54.46N | 49 | 57.68E | 49 | 30N | 50 | 14E | 611447 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TALENT-KEYHOLE
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| FRM | HR | MI | SEC | DTIM | MILS | DEG | LAT | DEG | MIN | DEG | LONG | ALTITUDE | VELOC | F/S | DEG | MI | DEG | MI | PITCH | DEG | MIN | ROLL | DEG | MIN | YAW | DEG | MIN | SCAN | RAT |
|-----|----|----|--------|------|------|--------|-----|--------|-----|-----|------|----------|--------|-------|-----|----|-----|----|-------|-----|-----|------|-----|-----|-------|-------|-----|------|-----|
| 91 | 8 | 8 | 54.063 | 2240 | 40 | 20.91N | 54 | 40.31E | 39 | 55N | 54 | 52E | 598766 | 24673 | 162 | 52 | 44 | 12 | 15 | 13 | -0 | 16 | ND | ND | 2.805 | 2.805 | | | |
| 92 | 8 | 8 | 56.298 | 2235 | 40 | 12.23N | 54 | 43.80E | 39 | 47N | 54 | 55E | 598646 | 24673 | 162 | 55 | 44 | 21 | 15 | 14 | -0 | 15 | ND | ND | 2.811 | 2.811 | | | |
| 93 | 8 | 8 | 58.527 | 2230 | 40 | 3.56N | 54 | 47.26E | 39 | 38N | 54 | 58E | 598530 | 24674 | 162 | 58 | 44 | 30 | 15 | 14 | -0 | 15 | ND | ND | 2.818 | 2.818 | | | |
| 94 | 8 | 9 | 0.758 | 2230 | 39 | 54.90N | 54 | 50.71E | 39 | 29N | 55 | 2E | 598415 | 24674 | 163 | 0 | 44 | 39 | 15 | 14 | -0 | 14 | ND | ND | 2.818 | 2.818 | | | |
| 95 | 8 | 9 | 2.987 | 2230 | 39 | 46.23N | 54 | 54.14E | 39 | 21N | 55 | 5E | 598303 | 24674 | 163 | 3 | 44 | 48 | 15 | 14 | -0 | 14 | ND | ND | 2.818 | 2.818 | | | |
| 96 | 8 | 9 | 5.218 | 2230 | 39 | 37.56N | 54 | 57.56E | 39 | 12N | 55 | 9E | 598193 | 24675 | 163 | 6 | 44 | 58 | 15 | 14 | -0 | 13 | ND | ND | 2.818 | 2.818 | | | |
| 97 | 8 | 9 | 7.442 | 2225 | 39 | 28.91N | 55 | 0.95E | 39 | 3N | 55 | 12E | 598085 | 24675 | 163 | 9 | 44 | 7 | 15 | 14 | -0 | 12 | ND | ND | 2.824 | 2.824 | | | |
| 98 | 8 | 9 | 9.667 | 2225 | 39 | 20.25N | 55 | 4.32E | 38 | 55N | 55 | 15E | 597980 | 24675 | 163 | 12 | 44 | 15 | 15 | 14 | -0 | 11 | ND | ND | 2.824 | 2.824 | | | |
| 99 | 8 | 9 | 11.893 | 2225 | 39 | 11.59N | 55 | 7.68E | 38 | 46N | 55 | 19E | 597877 | 24675 | 163 | 15 | 44 | 24 | 15 | 13 | -0 | 10 | ND | ND | 2.824 | 2.824 | | | |
| 100 | 8 | 9 | 14.113 | 2221 | 39 | 2.95N | 55 | 11.02E | 38 | 38N | 55 | 22E | 597776 | 24676 | 163 | 18 | 44 | 33 | 15 | 13 | -0 | 9 | ND | ND | 2.829 | 2.829 | | | |
| 101 | 8 | 9 | 16.338 | 2224 | 38 | 54.28N | 55 | 14.34E | 38 | 29N | 55 | 25E | 597677 | 24676 | 163 | 20 | 44 | 42 | 15 | 12 | -0 | 9 | ND | ND | 2.825 | 2.825 | | | |
| 102 | 8 | 9 | 18.563 | 2225 | 38 | 45.62N | 55 | 17.65E | 38 | 20N | 55 | 29E | 597580 | 24676 | 163 | 23 | 44 | 51 | 15 | 12 | -0 | 8 | ND | ND | 2.824 | 2.824 | | | |
| 103 | 8 | 9 | 20.787 | 2225 | 38 | 36.95N | 55 | 20.95E | 38 | 12N | 55 | 32E | 597486 | 24676 | 163 | 26 | 44 | 0 | 15 | 12 | -0 | 7 | ND | ND | 2.824 | 2.824 | | | |
| 104 | 8 | 9 | 23.009 | 2221 | 38 | 28.29N | 55 | 24.22E | 38 | 3N | 55 | 35E | 597393 | 24677 | 163 | 29 | 44 | 9 | 15 | 11 | -0 | 6 | ND | ND | 2.829 | 2.829 | | | |
| 105 | 8 | 9 | 25.232 | 2224 | 38 | 19.63N | 55 | 27.48E | 37 | 54N | 55 | 38E | 597303 | 24677 | 163 | 31 | 44 | 18 | 15 | 11 | -0 | 5 | ND | ND | 2.825 | 2.825 | | | |
| 106 | 8 | 9 | 27.457 | 2225 | 38 | 10.95N | 55 | 30.73E | 37 | 46N | 55 | 42E | 597215 | 24677 | 163 | 34 | 44 | 27 | 15 | 10 | -0 | 4 | ND | ND | 2.824 | 2.824 | | | |
| 107 | 8 | 9 | 29.678 | 2220 | 38 | 2.29N | 55 | 33.96E | 37 | 37N | 55 | 45E | 597129 | 24677 | 163 | 37 | 44 | 36 | 15 | 10 | -0 | 4 | ND | ND | 2.830 | 2.830 | | | |
| 108 | 8 | 9 | 31.897 | 2220 | 37 | 53.63N | 55 | 37.17E | 37 | 28N | 55 | 48E | 597046 | 24677 | 163 | 39 | 44 | 45 | 15 | 10 | -0 | 3 | ND | ND | 2.830 | 2.830 | | | |
| 109 | 8 | 9 | 34.117 | 2220 | 37 | 44.97N | 55 | 40.37E | 37 | 20N | 55 | 51E | 596965 | 24678 | 163 | 42 | 44 | 54 | 15 | 9 | -0 | 2 | ND | ND | 2.830 | 2.830 | | | |
| 110 | 8 | 9 | 36.343 | 2225 | 37 | 36.28N | 55 | 43.56E | 37 | 11N | 55 | 54E | 596886 | 24678 | 163 | 45 | 44 | 7 | 15 | 9 | -0 | 2 | ND | ND | 2.834 | 2.834 | | | |
| 111 | 8 | 9 | 38.563 | 2220 | 37 | 27.62N | 55 | 46.73E | 36 | 2N | 55 | 58E | 596809 | 24678 | 163 | 47 | 44 | 12 | 15 | 8 | -0 | 1 | ND | ND | 2.830 | 2.830 | | | |
| 112 | 8 | 9 | 40.777 | 2215 | 37 | 18.97N | 55 | 49.88E | 36 | 54N | 56 | 1E | 596735 | 24678 | 163 | 50 | 44 | 21 | 15 | 7 | -0 | 0 | ND | ND | 2.837 | 2.837 | | | |
| 113 | 8 | 9 | 42.997 | 2220 | 37 | 10.30N | 55 | 53.02E | 36 | 45N | 56 | 4E | 596663 | 24678 | 163 | 52 | 44 | 30 | 15 | 7 | -0 | 0 | ND | ND | 2.830 | 2.830 | | | |
| 114 | 8 | 9 | 45.219 | 2221 | 37 | 1.62N | 55 | 56.15E | 36 | 37N | 56 | 7E | 596592 | 24679 | 163 | 55 | 44 | 39 | 15 | 6 | -0 | 0 | ND | ND | 2.829 | 2.829 | | | |
| 115 | 8 | 9 | 47.438 | 2219 | 36 | 52.95N | 55 | 59.26E | 36 | 28N | 56 | 10E | 596524 | 24679 | 163 | 58 | 44 | 48 | 15 | 6 | -0 | 0 | ND | ND | 2.832 | 2.832 | | | |
| 116 | 8 | 9 | 49.653 | 2216 | 36 | 44.29N | 56 | 2.35E | 30 | 19N | 56 | 13E | 596459 | 24679 | 164 | 0 | 44 | 57 | 15 | 6 | -0 | 0 | ND | ND | 2.835 | 2.835 | | | |

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TOP SECRET

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PASS 1360 FWD 6MAR65

FRAME EPHMERIS MISSION 1017-2

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| FRM | Z TIME | DTIM | CAMERA | NADR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUNV | PITCH | ROLL | YAW | SCAN |
|-------|--------|--------|---------|-----------|-----------|--------|----------|--------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILS | DEG MIN | DEG MIN | LAT | LONG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 1 | 9 33 | 4.911 | 0 | 61 20.00N | 17 28.05E | 60 56N | 17 59E | 638473 | 24578 | 149 9 | 21 22 | 14 55 | ND | 1.973 |
| 2 | 9 33 | 8.097 | 3185 | 61 8.95N | 17 41.68E | 60 45N | 18 12E | 637916 | 24580 | 149 23 | 21 35 | 14 57 | ND | 1.973 |
| 3 | 9 33 | 10.757 | 2660 | 60 59.71N | 17 52.93E | 60 36N | 18 23E | 637454 | 24581 | 149 34 | 21 46 | 14 59 | ND | 2.362 |
| 4 | 9 33 | 13.247 | 2491 | 60 51.04N | 18 3.36E | 60 27N | 18 33E | 637023 | 24582 | 149 44 | 21 56 | 15 2 | ND | 2.522 |
| 5 | 9 33 | 15.672 | 2424 | 60 42.58N | 18 13.42E | 60 18N | 18 43E | 636194 | 24583 | 149 54 | 22 6 | 15 4 | ND | 2.592 |
| 6 | 9 33 | 18.062 | 2390 | 60 34.23N | 18 23.25E | 60 10N | 18 53E | 636164 | 24584 | 150 3 | 22 16 | 15 6 | ND | 2.646 |
| 7 | 9 33 | 20.437 | 2375 | 60 25.92N | 18 42.47E | 60 2N | 19 2E | 635787 | 24585 | 150 13 | 22 25 | 15 8 | ND | 2.667 |
| 8 | 9 33 | 22.802 | 2365 | 60 17.63N | 18 42.47E | 59 53N | 19 12E | 635385 | 24586 | 150 22 | 22 35 | 15 10 | ND | 2.657 |
| 9 | 9 33 | 25.151 | 2350 | 60 9.38N | 18 51.87E | 59 45N | 19 21E | 634986 | 24587 | 150 31 | 22 45 | 15 12 | ND | 2.674 |
| 10 | 9 33 | 27.501 | 2350 | 60 1.12N | 19 1.19E | 59 37N | 19 30E | 634589 | 24588 | 150 41 | 22 54 | 15 13 | ND | 2.674 |
| 11 | 9 33 | 29.847 | 2345 | 59 52.86N | 19 10.41E | 59 28N | 19 39E | 634194 | 24589 | 150 50 | 23 4 | 15 14 | ND | 2.679 |
| 12 | 9 33 | 32.182 | 2335 | 59 44.63N | 19 19.52E | 59 20N | 19 48E | 633803 | 24589 | 150 58 | 23 13 | 15 15 | ND | 2.691 |
| 13 | 9 33 | 34.517 | 2335 | 59 36.38N | 19 28.54E | 59 12N | 19 57E | 633413 | 24590 | 151 7 | 23 23 | 15 16 | ND | 2.691 |
| 14 | 9 33 | 36.847 | 2330 | 59 28.14N | 19 37.46E | 59 3N | 20 5E | 633026 | 24591 | 151 16 | 23 32 | 15 16 | ND | 2.697 |
| 15 | 9 33 | 39.177 | 2330 | 59 19.88N | 19 46.31E | 58 55N | 20 14E | 632641 | 24592 | 151 24 | 23 41 | 15 16 | ND | 2.697 |
| 16 | 9 33 | 41.502 | 2326 | 59 11.63N | 19 55.06E | 58 47N | 20 23E | 632257 | 24593 | 151 33 | 23 51 | 15 16 | ND | 2.701 |
| 17 | 9 33 | 43.826 | 2324 | 59 3.38N | 20 5.74E | 58 39N | 20 31E | 631876 | 24594 | 151 41 | 24 0 | 15 16 | ND | 2.704 |
| 18 | 9 33 | 46.151 | 2325 | 58 55.11N | 20 12.35E | 58 30N | 20 40E | 631496 | 24595 | 151 50 | 24 10 | 15 15 | ND | 2.702 |
| 19 | 9 33 | 48.472 | 2320 | 58 46.84N | 20 20.86E | 58 22N | 20 48E | 631119 | 24596 | 151 58 | 24 19 | 15 14 | ND | 2.708 |
| 20 | 9 33 | 50.791 | 2320 | 58 38.57N | 20 29.30E | 58 14N | 20 56E | 630743 | 24597 | 152 6 | 24 28 | 15 13 | ND | 2.708 |
| 21 | 9 33 | 53.106 | 2315 | 58 30.30N | 20 37.66E | 58 6N | 21 4E | 630370 | 24598 | 152 14 | 24 38 | 15 11 | ND | 2.714 |
| 22 | 9 33 | 55.416 | 2310 | 58 22.04N | 20 45.93E | 57 58N | 21 12E | 629999 | 24598 | 152 22 | 24 47 | 15 10 | ND | 2.720 |
| 23 | 9 33 | 57.727 | 2310 | 58 13.77N | 20 54.13E | 57 49N | 21 20E | 629629 | 24599 | 152 30 | 24 56 | 15 8 | ND | 2.720 |
| 24 | 9 34 | 0.041 | 2315 | 58 5.47N | 21 2.27E | 57 41N | 21 28E | 629261 | 24600 | 152 38 | 25 6 | 15 7 | ND | 2.714 |
| 25 | 9 34 | 2.352 | 2310 | 57 57.18N | 21 10.34E | 57 33N | 21 36E | 628895 | 24601 | 152 46 | 25 15 | 15 5 | ND | 2.720 |
| 26 | 9 34 | 4.661 | 2310 | 57 48.87N | 21 18.34E | 57 24N | 21 44E | 628531 | 24602 | 152 54 | 25 24 | 15 4 | ND | 2.720 |
| 27 | 9 34 | 6.961 | 2300 | 57 40.60N | 21 26.24E | 57 16N | 21 51E | 628169 | 24603 | 153 2 | 25 33 | 15 3 | ND | 2.732 |
| 28 | 9 34 | 9.267 | 2305 | 57 32.29N | 21 34.09E | 57 8N | 21 59E | 627810 | 24604 | 153 9 | 25 43 | 15 2 | ND | 2.726 |
| 29 | 9 34 | 11.566 | 2300 | 57 24.00N | 21 41.86E | 57 0N | 22 6E | 627453 | 24604 | 153 17 | 25 52 | 15 1 | ND | 2.732 |
| 30 | 9 34 | 13.866 | 2300 | 57 15.69N | 21 49.57E | 56 51N | 22 14E | 627097 | 24605 | 153 24 | 26 1 | 14 60 | ND | 2.732 |
| 31 | 9 34 | 16.161 | 2295 | 57 7.40N | 21 57.20E | 56 43N | 22 21E | 626743 | 24606 | 153 32 | 26 11 | 14 58 | ND | 2.738 |
| 32 | 9 34 | 18.456 | 2295 | 56 59.09N | 22 4.77E | 56 35N | 22 29E | 626391 | 24607 | 153 39 | 26 20 | 14 57 | ND | 2.738 |
| 33 | 9 34 | 20.747 | 2291 | 56 50.79N | 22 12.27E | 56 27N | 22 36E | 626041 | 24608 | 153 46 | 26 29 | 14 55 | ND | 2.743 |
| 34 | 9 34 | 23.047 | 2299 | 56 42.45N | 22 19.74E | 56 18N | 22 43E | 625693 | 24609 | 153 53 | 26 38 | 14 53 | ND | 2.733 |
| 35 | 9 34 | 25.336 | 2290 | 56 34.14N | 22 27.11E | 56 10N | 22 50E | 625347 | 24609 | 154 0 | 26 47 | 14 52 | ND | 2.744 |
| 36 | 9 34 | 27.622 | 2286 | 56 25.83N | 22 34.42E | 56 2N | 22 57E | 625003 | 24610 | 154 7 | 26 57 | 14 49 | ND | 2.749 |
| 37 | 9 34 | 29.906 | 2284 | 56 17.52N | 22 41.66E | 55 53N | 23 4E | 624661 | 24611 | 154 14 | 27 6 | 14 47 | ND | 2.751 |
| 38 | 9 34 | 32.196 | 2290 | 56 9.18N | 22 48.87E | 55 45N | 23 11E | 624320 | 24612 | 154 21 | 27 15 | 14 45 | ND | 2.744 |
| 39 | 9 34 | 34.477 | 2280 | 56 0.86N | 22 55.99E | 55 37N | 23 18E | 623983 | 24613 | 154 28 | 27 24 | 14 43 | ND | 2.756 |
| 40 | 9 34 | 36.762 | 2285 | 55 52.52N | 23 3.07E | 55 29N | 23 25E | 623646 | 24613 | 154 35 | 27 33 | 14 40 | ND | 2.750 |
| 41 | 9 34 | 39.041 | 2280 | 55 44.19N | 23 10.08E | 55 20N | 23 32E | 623312 | 24614 | 154 42 | 27 43 | 14 37 | ND | 2.756 |
| 42 | 9 34 | 41.326 | 2285 | 55 35.84N | 23 17.05E | 55 12N | 23 39E | 622978 | 24615 | 154 48 | 27 52 | 14 34 | ND | 2.750 |
| 43 | 9 34 | 43.604 | 2277 | 55 27.58N | 23 23.95E | 55 4N | 23 45E | 622648 | 24616 | 154 55 | 28 1 | 14 31 | ND | 2.759 |
| 44 | 9 34 | 45.882 | 2278 | 55 19.15N | 23 30.79E | 54 56N | 23 52E | 622319 | 24617 | 155 2 | 28 10 | 14 28 | ND | 2.758 |
| 45 | 9 34 | 48.156 | 2275 | 55 10.81N | 23 37.58E | 54 47N | 23 58E | 621992 | 24617 | 155 8 | 28 19 | 14 25 | ND | 2.762 |

TOP SECRET

HANDLE VIA

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1360 FWD 6MAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

LIST DATE 10MAY65 PAGE 76

| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUNV | PITCH | ROLL | YAW | SCAN |
|-------|-------------|------|-----------|-----------|--------|--------|----------|-------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILS | LAT | LONG | LAT | LONG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 46 | 9 34 50.432 | 2275 | 55 2.46N | 23 44.31E | 54 39N | 24 5E | 621668 | 24618 | 155 15 | 28 28 | 14 21 | 0 5 | ND | 2.762 |
| 47 | 9 34 52.702 | 2271 | 54 54.12N | 23 50.98E | 54 31N | 24 11E | 621345 | 24619 | 155 21 | 28 37 | 14 19 | 0 5 | ND | 2.767 |
| 48 | 9 34 54.968 | 2265 | 54 45.78N | 23 57.59E | 54 23N | 24 18E | 621025 | 24620 | 155 27 | 28 46 | 14 16 | 0 5 | ND | 2.774 |
| 49 | 9 34 57.237 | 2270 | 54 37.43N | 24 4.16E | 54 14N | 24 24E | 620702 | 24621 | 155 34 | 28 55 | 14 14 | 0 5 | ND | 2.768 |
| 50 | 9 34 59.508 | 2270 | 54 29.07N | 24 10.68E | 54 6N | 24 30E | 620389 | 24621 | 155 40 | 29 5 | 14 14 | 0 5 | ND | 2.768 |
| 51 | 9 35 1.777 | 2270 | 54 20.70N | 24 17.16E | 53 58N | 24 37E | 620072 | 24622 | 155 46 | 29 14 | 14 10 | 0 5 | ND | 2.768 |
| 52 | 9 35 4.042 | 2265 | 54 12.34N | 24 23.57E | 53 49N | 24 43E | 619759 | 24623 | 155 52 | 29 23 | 14 8 | 0 5 | ND | 2.774 |
| 53 | 9 35 6.307 | 2264 | 54 3.98N | 24 29.94E | 53 41N | 24 49E | 619448 | 24623 | 155 58 | 29 32 | 14 7 | 0 5 | ND | 2.775 |
| 54 | 9 35 8.566 | 2260 | 53 55.62N | 24 36.24E | 53 33N | 24 55E | 619139 | 24624 | 156 4 | 29 41 | 14 6 | 0 5 | ND | 2.780 |
| 55 | 9 35 10.831 | 2265 | 53 47.24N | 24 42.52E | 53 24N | 25 1E | 618832 | 24625 | 156 10 | 29 50 | 14 4 | 0 5 | ND | 2.774 |
| 56 | 9 35 13.086 | 2255 | 53 38.89N | 24 48.72E | 53 16N | 25 7E | 618527 | 24626 | 156 16 | 29 59 | 14 4 | 0 5 | ND | 2.786 |
| 57 | 9 35 15.347 | 2260 | 53 30.52N | 24 54.89E | 52 8N | 25 13E | 618223 | 24626 | 156 22 | 30 8 | 14 3 | 0 5 | ND | 2.780 |
| 58 | 9 35 17.606 | 2260 | 53 22.14N | 25 1.02E | 52 59N | 25 19E | 617921 | 24627 | 156 28 | 30 18 | 14 3 | 0 5 | ND | 2.780 |
| 59 | 9 35 19.861 | 2255 | 53 13.77N | 25 7.09E | 52 51N | 25 25E | 617622 | 24628 | 156 34 | 30 27 | 14 2 | 0 5 | ND | 2.786 |
| 60 | 9 35 22.116 | 2255 | 53 5.39N | 25 13.12E | 52 42N | 25 31E | 617324 | 24628 | 156 39 | 30 36 | 14 2 | 0 5 | ND | 2.786 |
| 61 | 9 35 24.371 | 2255 | 52 57.01N | 25 19.10E | 52 34N | 25 37E | 617029 | 24629 | 156 45 | 30 45 | 14 2 | 0 5 | ND | 2.786 |
| 62 | 9 35 26.626 | 2255 | 52 48.62N | 25 25.05E | 52 26N | 25 43E | 616734 | 24630 | 156 51 | 30 54 | 14 2 | 0 5 | ND | 2.786 |
| 63 | 9 35 28.883 | 2256 | 52 40.22N | 25 30.96E | 52 17N | 25 49E | 616442 | 24631 | 156 56 | 31 3 | 14 2 | 0 5 | ND | 2.785 |
| 64 | 9 35 31.133 | 2250 | 52 31.83N | 25 36.80E | 52 9N | 25 54E | 616152 | 24631 | 157 2 | 31 12 | 14 2 | 0 5 | ND | 2.793 |
| 65 | 9 35 33.382 | 2249 | 52 23.45N | 25 42.61E | 52 0N | 26 0E | 615864 | 24632 | 157 7 | 31 22 | 14 2 | 0 5 | ND | 2.793 |
| 66 | 9 35 35.632 | 2250 | 52 15.05N | 25 48.38E | 51 52N | 26 6E | 615577 | 24633 | 157 13 | 31 31 | 14 3 | 0 5 | ND | 2.793 |
| 67 | 9 35 37.882 | 2250 | 52 6.65N | 25 54.11E | 51 44N | 26 11E | 615294 | 24633 | 157 18 | 31 40 | 14 3 | 0 5 | ND | 2.793 |
| 68 | 9 35 40.127 | 2246 | 51 58.26N | 25 59.78E | 51 35N | 26 17E | 615011 | 24634 | 157 24 | 31 49 | 14 4 | 0 5 | ND | 2.798 |
| 69 | 9 35 42.371 | 2244 | 51 49.87N | 26 5.42E | 51 27N | 26 22E | 614731 | 24635 | 157 29 | 31 58 | 14 4 | 0 5 | ND | 2.800 |
| 70 | 9 35 44.617 | 2246 | 51 41.47N | 26 11.02E | 51 18N | 26 28E | 614452 | 24635 | 157 34 | 32 7 | 14 4 | 0 5 | ND | 2.798 |
| 71 | 9 35 46.866 | 2249 | 51 33.05N | 26 16.59E | 51 10N | 26 33E | 614175 | 24636 | 157 39 | 32 16 | 14 4 | 0 5 | ND | 2.794 |
| 72 | 9 35 49.106 | 2240 | 51 24.65N | 26 22.11E | 51 1N | 26 39E | 613901 | 24637 | 157 45 | 32 25 | 14 4 | 0 5 | ND | 2.805 |
| 73 | 9 35 51.348 | 2244 | 51 16.25N | 26 27.59E | 50 53N | 26 44E | 613628 | 24637 | 157 50 | 32 35 | 14 4 | 0 5 | ND | 2.804 |
| 74 | 9 35 53.592 | 2244 | 51 7.83N | 26 33.04E | 50 45N | 26 49E | 613358 | 24638 | 157 55 | 32 44 | 14 4 | 0 5 | ND | 2.800 |
| 75 | 9 35 55.832 | 2241 | 50 59.42N | 26 38.44E | 50 36N | 26 55E | 613088 | 24638 | 158 0 | 32 53 | 14 4 | 0 5 | ND | 2.804 |
| 76 | 9 35 58.071 | 2239 | 50 51.01N | 26 43.81E | 50 28N | 27 0E | 612821 | 24639 | 158 5 | 33 2 | 14 4 | 0 5 | ND | 2.806 |
| 77 | 9 36 0.307 | 2235 | 50 42.61N | 26 49.13E | 50 19N | 27 5E | 612557 | 24640 | 158 10 | 33 11 | 14 4 | 0 5 | ND | 2.811 |
| 78 | 9 36 2.547 | 2240 | 50 34.18N | 26 54.42E | 50 11N | 27 10E | 612294 | 24640 | 158 15 | 33 20 | 14 10 | 0 5 | ND | 2.805 |
| 79 | 9 36 4.786 | 2240 | 50 25.75N | 26 59.69E | 50 2N | 27 16E | 612033 | 24641 | 158 20 | 33 29 | 14 11 | 0 5 | ND | 2.805 |
| 80 | 9 36 7.022 | 2234 | 50 17.33N | 27 4.91E | 49 54N | 27 21E | 611773 | 24642 | 158 25 | 33 38 | 14 12 | 0 5 | ND | 2.810 |
| 81 | 9 36 9.257 | 2234 | 50 8.91N | 27 10.09E | 49 45N | 27 26E | 611517 | 24642 | 158 30 | 33 47 | 14 13 | 0 5 | ND | 2.813 |
| 82 | 9 36 11.496 | 2240 | 50 0.47N | 27 15.25E | 49 37N | 27 31E | 611261 | 24643 | 158 34 | 33 56 | 14 14 | 0 5 | ND | 2.805 |
| 83 | 9 36 13.731 | 2235 | 49 52.04N | 27 20.36E | 49 28N | 27 36E | 611007 | 24643 | 158 39 | 34 6 | 14 16 | 0 5 | ND | 2.811 |
| 84 | 9 36 15.967 | 2235 | 49 43.60N | 27 25.45E | 49 20N | 27 41E | 610755 | 24644 | 158 44 | 34 15 | 14 18 | 0 5 | ND | 2.811 |
| 85 | 9 36 18.203 | 2237 | 49 35.15N | 27 30.50E | 49 12N | 27 46E | 610505 | 24645 | 158 49 | 34 24 | 14 19 | 0 6 | ND | 2.809 |
| 86 | 9 36 20.432 | 2228 | 49 26.73N | 27 35.51E | 49 3N | 27 51E | 610259 | 24645 | 158 53 | 34 33 | 14 21 | 0 6 | ND | 2.820 |
| 87 | 9 36 22.661 | 2230 | 49 18.30N | 27 40.48E | 48 55N | 27 56E | 610013 | 24646 | 158 58 | 34 42 | 14 23 | 0 7 | ND | 2.818 |
| 88 | 9 36 24.896 | 2230 | 49 9.84N | 27 45.44E | 48 46N | 28 1E | 609769 | 24646 | 159 2 | 34 51 | 14 25 | 0 7 | ND | 2.818 |
| 89 | 9 36 27.126 | 2230 | 49 1.40N | 27 50.35E | 48 38N | 28 5E | 609527 | 24647 | 159 7 | 35 0 | 14 26 | 0 7 | ND | 2.818 |
| 90 | 9 36 29.361 | 2235 | 48 52.93N | 27 55.25E | 48 29N | 28 10E | 609287 | 24648 | 159 12 | 35 9 | 14 28 | 0 7 | ND | 2.811 |

TOP SECRET

HANDLE VIA

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

FRAME EPHEMERIS

MISSION 1017-2

ID 43

LIST DATE 10MAY65

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PASS 1360 FWD 6MAR65

| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCN |
|-------|--------|--------|--------|-----------|-----------|---------------|----------|-------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILS | LAT | DEG MIN | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 91 | 9 36 | 31.592 | 2230 | 48 44.48N | 28 01.10E | 48 20N 28 15E | 609049 | 24648 | 159 16 | 35 18 | 14 30 | -0 8 | ND | 2.818 |
| 92 | 9 36 | 33.821 | 2230 | 48 36.02N | 28 4.93E | 48 12N 28 20E | 608814 | 24649 | 159 21 | 35 28 | 14 32 | -0 8 | ND | 2.818 |
| 93 | 9 36 | 36.052 | 2230 | 48 27.56N | 28 9.72E | 48 3N 28 25E | 608579 | 24649 | 159 25 | 35 37 | 14 34 | -0 8 | ND | 2.818 |
| 94 | 9 36 | 38.281 | 2230 | 48 19.10N | 28 14.48E | 28 29E | 608347 | 24650 | 159 29 | 35 46 | 14 34 | -0 9 | ND | 2.818 |
| 95 | 9 36 | 40.507 | 2225 | 48 10.64N | 28 19.21E | 28 34E | 608117 | 24650 | 159 34 | 35 55 | 14 35 | -0 9 | ND | 2.824 |
| 96 | 9 36 | 42.736 | 2230 | 48 2.17N | 28 23.91E | 28 38E | 607889 | 24651 | 159 38 | 36 4 | 14 36 | -0 9 | ND | 2.818 |
| 97 | 9 36 | 44.967 | 2230 | 47 53.69N | 28 28.59E | 28 43E | 607663 | 24651 | 159 42 | 36 13 | 14 36 | -0 9 | ND | 2.818 |
| 98 | 9 36 | 47.191 | 2225 | 47 45.23N | 28 33.23E | 28 48E | 607438 | 24652 | 159 47 | 36 22 | 14 37 | -0 9 | ND | 2.824 |
| 99 | 9 36 | 49.422 | 2230 | 47 36.74N | 28 37.85E | 28 52E | 607216 | 24653 | 159 51 | 36 31 | 14 37 | -0 9 | ND | 2.818 |
| 00 | 9 36 | 51.646 | 2225 | 47 28.27N | 28 42.44E | 28 57E | 606996 | 24653 | 159 55 | 36 40 | 14 38 | -0 9 | ND | 2.824 |
| 01 | 9 36 | 53.876 | 2230 | 47 19.78N | 28 47.00E | 28 1E | 606777 | 24654 | 159 59 | 36 49 | 14 37 | -0 10 | ND | 2.818 |
| 02 | 9 36 | 56.104 | 2227 | 47 11.29N | 28 51.53E | 28 6E | 606561 | 24654 | 160 3 | 36 58 | 14 38 | -0 10 | ND | 2.821 |
| 03 | 9 36 | 58.321 | 2218 | 47 2.83N | 28 56.02E | 28 10E | 606347 | 24655 | 160 7 | 37 7 | 14 38 | -0 10 | ND | 2.833 |
| 04 | 9 37 | 0.547 | 2225 | 46 54.34N | 29 0.50E | 29 14E | 606134 | 24655 | 160 12 | 37 16 | 14 38 | -0 10 | ND | 2.824 |
| 05 | 9 37 | 2.771 | 2225 | 46 45.85N | 29 4.95E | 29 19E | 605924 | 24656 | 160 16 | 37 25 | 14 38 | -0 10 | ND | 2.824 |
| 06 | 9 37 | 5.001 | 2230 | 46 37.33N | 29 9.38E | 29 23E | 605715 | 24656 | 160 20 | 37 34 | 14 38 | -0 10 | ND | 2.818 |
| 07 | 9 37 | 7.227 | 2225 | 46 28.83N | 29 13.78E | 29 27E | 605508 | 24657 | 160 24 | 37 43 | 14 38 | -0 10 | ND | 2.824 |
| 08 | 9 37 | 9.446 | 2220 | 46 20.35N | 29 18.14E | 29 32E | 605304 | 24657 | 160 28 | 37 52 | 14 38 | -0 10 | ND | 2.830 |
| 09 | 9 37 | 11.672 | 2225 | 46 11.84N | 29 22.48E | 29 36E | 605101 | 24658 | 160 32 | 38 1 | 14 38 | -0 10 | ND | 2.824 |
| 10 | 9 37 | 13.896 | 2225 | 45 5.33N | 29 26.80E | 29 40E | 604901 | 24658 | 160 35 | 38 10 | 14 38 | -0 9 | ND | 2.824 |
| 11 | 9 37 | 16.116 | 2220 | 45 54.83N | 29 31.09E | 29 44E | 604703 | 24659 | 160 39 | 38 19 | 14 37 | -0 10 | ND | 2.830 |
| 12 | 9 37 | 18.342 | 2225 | 45 46.31N | 29 35.36E | 29 49E | 604505 | 24659 | 160 43 | 38 28 | 14 37 | -0 9 | ND | 2.824 |
| 13 | 9 37 | 20.563 | 2221 | 45 37.80N | 29 39.60E | 29 53E | 604311 | 24659 | 160 47 | 38 37 | 14 37 | -0 9 | ND | 2.829 |
| 14 | 9 37 | 22.791 | 2229 | 45 29.26N | 29 43.83E | 29 57E | 604118 | 24660 | 160 51 | 38 46 | 14 38 | -0 9 | ND | 2.819 |
| 15 | 9 37 | 25.017 | 2225 | 45 20.73N | 29 48.03E | 29 1E | 603927 | 24660 | 160 55 | 38 55 | 14 38 | -0 9 | ND | 2.824 |
| 16 | 9 37 | 27.241 | 2225 | 45 12.20N | 29 52.21E | 29 5E | 603738 | 24661 | 160 58 | 39 4 | 14 38 | -0 9 | ND | 2.824 |
| 17 | 9 37 | 29.461 | 2220 | 45 3.68N | 29 56.35E | 29 9E | 603552 | 24661 | 161 2 | 39 13 | 14 38 | -0 9 | ND | 2.830 |
| 18 | 9 37 | 31.687 | 2220 | 44 55.14N | 30 0.48E | 30 13E | 603367 | 24662 | 161 6 | 39 22 | 14 38 | -0 9 | ND | 2.824 |
| 19 | 9 37 | 33.910 | 2224 | 44 46.60N | 30 4.58E | 30 17E | 603184 | 24662 | 161 9 | 39 31 | 14 38 | -0 9 | ND | 2.825 |
| 20 | 9 37 | 36.126 | 2216 | 44 38.08N | 30 8.65E | 30 21E | 603004 | 24663 | 161 13 | 39 40 | 14 37 | -0 9 | ND | 2.835 |
| 21 | 9 37 | 38.352 | 2225 | 44 29.53N | 30 12.71E | 30 25E | 602826 | 24663 | 161 17 | 39 49 | 14 36 | -0 9 | ND | 2.824 |
| 22 | 9 37 | 40.571 | 2220 | 44 21.00N | 30 16.74E | 30 29E | 602649 | 24664 | 161 20 | 39 58 | 14 35 | -0 9 | ND | 2.830 |
| 23 | 9 37 | 42.797 | 2225 | 44 12.43N | 30 20.76E | 30 33E | 602474 | 24664 | 161 24 | 40 7 | 14 34 | -0 8 | ND | 2.824 |
| 24 | 9 37 | 45.017 | 2220 | 44 3.89N | 30 24.74E | 30 37E | 602302 | 24664 | 161 27 | 40 16 | 14 35 | -0 8 | ND | 2.830 |
| 25 | 9 37 | 47.236 | 2220 | 43 55.35N | 30 28.71E | 30 41E | 602132 | 24665 | 161 31 | 40 25 | 14 35 | -0 8 | ND | 2.830 |
| 26 | 9 37 | 49.461 | 2220 | 43 46.78N | 30 32.66E | 30 45E | 601964 | 24665 | 161 35 | 40 34 | 14 32 | -0 8 | ND | 2.830 |
| 27 | 9 37 | 51.682 | 2220 | 43 38.23N | 30 36.58E | 30 49E | 601797 | 24666 | 161 38 | 40 43 | 14 32 | -0 7 | ND | 2.830 |
| 28 | 9 37 | 53.907 | 2216 | 43 29.69N | 30 40.47E | 30 53E | 601633 | 24666 | 161 41 | 40 52 | 14 32 | -0 7 | ND | 2.835 |
| 29 | 9 37 | 56.112 | 2215 | 43 21.15N | 30 44.34E | 30 57E | 601471 | 24666 | 161 45 | 41 1 | 14 32 | -0 6 | ND | 2.837 |
| 30 | 9 37 | 58.336 | 2224 | 43 12.57N | 30 48.21E | 30 0E | 601311 | 24667 | 161 48 | 41 10 | 14 32 | -0 6 | ND | 2.825 |
| 31 | 9 38 | 0.562 | 2225 | 43 3.99N | 30 52.05E | 30 4E | 601153 | 24667 | 161 52 | 41 19 | 14 32 | -0 6 | ND | 2.824 |
| 32 | 9 38 | 2.783 | 2222 | 42 55.41N | 30 55.87E | 30 8E | 600997 | 24668 | 161 55 | 41 28 | 14 32 | -0 6 | ND | 2.828 |

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

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MISSION 1017-2

PASS 137D FWD 6MARB65

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| FRM | 2 TIME | DTIM | CAMERA | NADIR | FORMAT | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|--------|--------|----------|-----------|--------|----------|--------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILS | LAT | DEG MIN | LAT | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 1 | 11 17 | 5.501 | 6 25.99N | 18 29.86E | 6 1N | 18 37E | 634503 | 24592 | 168 25 | 77 34 | 14 11 | ND | 1.946 |
| 2 | 11 17 | 8.730 | 6 13.12N | 18 32.49E | 5 48N | 18 40E | 635141 | 24591 | 168 25 | 77 44 | 14 5 | ND | 1.946 |
| 3 | 11 17 | 11.436 | 6 2.35N | 18 34.70E | 5 37N | 18 42E | 635679 | 24590 | 168 26 | 77 53 | 13 58 | ND | 2.323 |
| 4 | 11 17 | 13.981 | 5 52.21N | 18 36.77E | 5 27N | 18 44E | 636188 | 24588 | 168 26 | 78 1 | 13 52 | ND | 2.468 |
| 5 | 11 17 | 16.460 | 5 42.33N | 18 38.79E | 5 18N | 18 46E | 636687 | 24587 | 168 26 | 78 9 | 13 47 | ND | 2.535 |
| 6 | 11 17 | 18.915 | 5 32.55N | 18 40.78E | 5 8N | 18 48E | 637184 | 24586 | 168 27 | 78 17 | 13 43 | ND | 2.559 |
| 7 | 11 17 | 21.351 | 5 22.85N | 18 42.76E | 5 18N | 18 50E | 637680 | 24585 | 168 27 | 78 24 | 13 40 | ND | 2.580 |
| 8 | 11 17 | 23.785 | 5 13.15N | 18 44.74E | 4 49N | 18 52E | 638178 | 24584 | 168 27 | 78 32 | 13 38 | ND | 2.580 |
| 9 | 11 17 | 26.205 | 5 3.51N | 18 46.70E | 4 39N | 18 54E | 638676 | 24583 | 168 28 | 78 40 | 13 37 | ND | 2.596 |
| 10 | 11 17 | 28.631 | 4 53.85N | 18 48.67E | 4 29N | 18 56E | 639179 | 24582 | 168 28 | 78 47 | 13 37 | ND | 2.591 |
| 11 | 11 17 | 31.052 | 4 44.21N | 18 50.63E | 4 20N | 18 58E | 639683 | 24580 | 168 28 | 78 55 | 13 37 | ND | 2.595 |
| 12 | 11 17 | 33.472 | 4 34.57N | 18 52.59E | 4 10N | 19 0E | 640189 | 24579 | 168 28 | 79 2 | 13 37 | ND | 2.596 |
| 13 | 11 17 | 35.896 | 4 24.92N | 18 54.55E | 4 0N | 19 2E | 640700 | 24578 | 168 29 | 79 9 | 13 38 | ND | 2.592 |
| 14 | 11 17 | 38.320 | 4 15.26N | 18 56.52E | 3 51N | 19 3E | 641213 | 24577 | 168 29 | 79 17 | 13 39 | ND | 2.591 |
| 15 | 11 17 | 40.750 | 4 5.58N | 18 58.48E | 3 41N | 19 5E | 641730 | 24576 | 168 29 | 79 24 | 13 40 | ND | 2.586 |
| 16 | 11 17 | 43.176 | 3 55.92N | 19 0.44E | 3 31N | 19 7E | 642249 | 24574 | 168 29 | 79 31 | 13 42 | ND | 2.591 |
| 17 | 11 17 | 45.605 | 3 46.25N | 19 2.40E | 3 21N | 19 9E | 642772 | 24573 | 168 30 | 79 38 | 13 44 | ND | 2.586 |
| 18 | 11 17 | 48.035 | 3 36.57N | 19 4.36E | 3 12N | 19 11E | 643297 | 24572 | 168 30 | 79 45 | 13 46 | ND | 2.586 |
| 19 | 11 17 | 50.466 | 3 26.89N | 19 6.32E | 3 2N | 19 13E | 643826 | 24571 | 168 30 | 79 52 | 13 48 | ND | 2.586 |
| 20 | 11 17 | 52.905 | 3 17.18N | 19 8.29E | 2 52N | 19 15E | 644360 | 24570 | 168 30 | 79 59 | 13 50 | ND | 2.575 |
| 21 | 11 17 | 55.335 | 3 7.50N | 19 10.24E | 2 42N | 19 17E | 644893 | 24568 | 168 30 | 80 5 | 13 54 | ND | 2.586 |
| 22 | 11 17 | 57.775 | 2 57.79N | 19 12.21E | 2 32N | 19 19E | 645432 | 24567 | 168 31 | 80 12 | 13 56 | ND | 2.575 |
| 23 | 11 18 | 0.216 | 2 48.07N | 19 14.17E | 2 23N | 19 21E | 645974 | 24566 | 168 31 | 80 19 | 13 59 | ND | 2.575 |
| 24 | 11 18 | 2.655 | 2 38.36N | 19 16.14E | 2 13N | 19 23E | 646518 | 24565 | 168 31 | 80 25 | 14 3 | ND | 2.575 |
| 25 | 11 18 | 5.096 | 2 28.64N | 19 18.10E | 2 3N | 19 25E | 647066 | 24563 | 168 31 | 80 31 | 14 6 | ND | 2.575 |
| 26 | 11 18 | 7.540 | 2 18.91N | 19 20.06E | 1 53N | 19 27E | 647616 | 24562 | 168 31 | 80 38 | 14 9 | ND | 2.570 |
| 27 | 11 18 | 9.986 | 2 9.17N | 19 22.03E | 1 43N | 19 29E | 648171 | 24561 | 168 31 | 80 44 | 14 12 | ND | 2.569 |
| 28 | 11 18 | 12.437 | 1 59.42N | 19 24.00E | 1 33N | 19 31E | 648729 | 24560 | 168 31 | 80 50 | 14 14 | ND | 2.566 |
| 29 | 11 18 | 14.886 | 1 49.67N | 19 25.97E | 1 23N | 19 33E | 649289 | 24558 | 168 32 | 80 56 | 14 17 | ND | 2.566 |
| 30 | 11 18 | 17.341 | 1 39.90N | 19 27.94E | 1 14N | 19 35E | 649854 | 24557 | 168 32 | 81 1 | 14 19 | ND | 2.559 |
| 31 | 11 18 | 19.796 | 1 30.12N | 19 29.91E | 1 4N | 19 37E | 650421 | 24556 | 168 32 | 81 7 | 14 20 | ND | 2.558 |
| 32 | 11 18 | 22.251 | 1 20.35N | 19 31.88E | 1 19N | 19 39E | 650991 | 24554 | 168 32 | 81 12 | 14 22 | ND | 2.559 |
| 33 | 11 18 | 24.711 | 1 10.56N | 19 33.85E | 1 9N | 19 41E | 651566 | 24553 | 168 32 | 81 18 | 14 25 | ND | 2.554 |
| 34 | 11 18 | 27.176 | 1 0.75N | 19 35.83E | 0 34N | 19 43E | 652143 | 24552 | 168 32 | 81 23 | 14 26 | ND | 2.550 |
| 35 | 11 18 | 29.641 | 0 50.95N | 19 37.80E | 0 24N | 19 45E | 652724 | 24550 | 168 32 | 81 28 | 14 28 | ND | 2.549 |
| 36 | 11 18 | 32.110 | 0 41.12N | 19 39.78E | 0 14N | 19 48E | 653307 | 24549 | 168 32 | 81 33 | 14 30 | ND | 2.544 |
| 37 | 11 18 | 34.580 | 0 31.29N | 19 41.75E | 0 5N | 19 50E | 653897 | 24548 | 168 32 | 81 38 | 14 31 | ND | 2.544 |
| 38 | 11 18 | 37.056 | 0 21.44N | 19 43.73E | 0 5S | 19 52E | 654488 | 24546 | 168 32 | 81 42 | 14 33 | ND | 2.539 |
| 39 | 11 18 | 39.536 | 0 11.60N | 19 45.73E | 0 15S | 19 54E | 655082 | 24545 | 168 32 | 81 47 | 14 34 | ND | 2.539 |
| 40 | 11 18 | 42.006 | 0 1.82N | 19 47.72E | 0 25S | 19 56E | 655680 | 24543 | 168 32 | 81 51 | 14 36 | ND | 2.539 |
| 41 | 11 18 | 44.485 | 0 8.13S | 19 49.70E | 0 35S | 19 58E | 656281 | 24542 | 168 32 | 81 55 | 14 36 | ND | 2.534 |
| 42 | 11 18 | 46.966 | 0 17.99S | 19 51.69E | 0 45S | 20 0E | 656885 | 24541 | 168 32 | 81 59 | 14 38 | ND | 2.534 |
| 43 | 11 18 | 49.450 | 0 27.87S | 19 53.68E | 0 55S | 20 2E | 657493 | 24539 | 168 32 | 82 2 | 14 39 | ND | 2.528 |
| 44 | 11 18 | 51.936 | 0 37.75S | 19 55.67E | 1 5S | 20 4E | 658104 | 24538 | 168 32 | 82 6 | 14 41 | ND | 2.528 |
| 45 | 11 18 | 54.426 | 0 47.66S | 19 57.67E | 1 15S | 20 6E | 658718 | 24536 | 168 32 | 82 9 | 14 42 | ND | 2.523 |

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| FRM | HR | MI | SEC | DTM | MILS | DEG | LAT | MIN | DEG | LONG | MIN | DEG | LAT | MIN | DEG | LONG | MIN | DEG | ALTITUDE | VELOC | F/S | DEG | MI | DEG | SUN/ | DEG | MI | DEG | PITCH | DEG | MIN | ROLL | DEG | MIN | DEG | MIN | YAW | DEG | MIN | SCAN | RATE |
|-----|----|----|--------|------|------|--------|-----|--------|-----|------|-----|-----|--------|-------|-----|------|-----|-----|----------|-------|-----|-----|----|-----|------|-----|----|-----|-------|-----|-------|-------|-----|-----|-----|-----|-----|-----|-----|------|------|
| 46 | 11 | 18 | 56.926 | 2500 | 0 | 57.60S | 19 | 59.67E | 1 | 25S | 20 | 8E | 659339 | 24535 | 168 | 32 | 82 | 12 | 14 | 43 | 0 | 29 | ND | ND | 14 | 43 | 0 | 29 | ND | ND | 2.513 | 2.522 | | | | | | | | | |
| 47 | 11 | 18 | 59.416 | 2491 | 1 | 7.50S | 20 | 1.66E | 1 | 35S | 20 | 10E | 659959 | 24534 | 168 | 32 | 82 | 15 | 14 | 44 | 0 | 29 | ND | ND | 14 | 44 | 0 | 29 | ND | ND | 2.514 | 2.513 | | | | | | | | | |
| 48 | 11 | 19 | 1.915 | 2499 | 1 | 17.44S | 20 | 3.67E | 1 | 45S | 20 | 12E | 660584 | 24532 | 168 | 32 | 82 | 18 | 14 | 45 | 0 | 29 | ND | ND | 14 | 45 | 0 | 29 | ND | ND | 2.503 | 2.512 | | | | | | | | | |
| 49 | 11 | 19 | 4.415 | 2500 | 1 | 27.38S | 20 | 5.67E | 1 | 55S | 20 | 14E | 661213 | 24531 | 168 | 32 | 82 | 20 | 14 | 46 | 0 | 29 | ND | ND | 14 | 46 | 0 | 29 | ND | ND | 2.498 | 2.504 | | | | | | | | | |
| 50 | 11 | 19 | 6.926 | 2510 | 1 | 37.36S | 20 | 7.68E | 2 | 55S | 20 | 16E | 661847 | 24529 | 168 | 32 | 82 | 23 | 14 | 47 | 0 | 29 | ND | ND | 14 | 47 | 0 | 29 | ND | ND | 2.514 | 2.514 | | | | | | | | | |
| 51 | 11 | 19 | 9.427 | 2501 | 1 | 47.31S | 20 | 9.69E | 2 | 55S | 20 | 18E | 662481 | 24528 | 168 | 32 | 82 | 25 | 14 | 48 | 0 | 29 | ND | ND | 14 | 48 | 0 | 29 | ND | ND | 2.527 | 2.527 | | | | | | | | | |
| 52 | 11 | 19 | 11.936 | 2509 | 1 | 57.28S | 20 | 11.70E | 2 | 35S | 20 | 20E | 663120 | 24526 | 168 | 32 | 82 | 27 | 14 | 49 | 0 | 28 | ND | ND | 14 | 49 | 0 | 28 | ND | ND | 2.527 | 2.514 | | | | | | | | | |
| 53 | 11 | 19 | 14.450 | 2515 | 2 | 7.28S | 20 | 13.72E | 2 | 45S | 20 | 22E | 663763 | 24525 | 168 | 32 | 82 | 28 | 14 | 50 | 0 | 28 | ND | ND | 14 | 50 | 0 | 28 | ND | ND | 2.522 | 2.522 | | | | | | | | | |
| 54 | 11 | 19 | 16.949 | 2499 | 2 | 17.21S | 20 | 15.72E | 2 | 45S | 20 | 24E | 664405 | 24523 | 168 | 32 | 82 | 30 | 14 | 51 | 0 | 27 | ND | ND | 14 | 51 | 0 | 27 | ND | ND | 2.528 | 2.528 | | | | | | | | | |
| 55 | 11 | 19 | 19.448 | 2499 | 2 | 27.14S | 20 | 17.72E | 2 | 55S | 20 | 26E | 665050 | 24522 | 168 | 31 | 82 | 31 | 14 | 52 | 0 | 27 | ND | ND | 14 | 52 | 0 | 27 | ND | ND | 2.523 | 2.523 | | | | | | | | | |
| 56 | 11 | 19 | 21.935 | 2486 | 2 | 37.03S | 20 | 19.72E | 3 | 55S | 20 | 28E | 665694 | 24520 | 168 | 31 | 82 | 32 | 14 | 53 | 0 | 27 | ND | ND | 14 | 53 | 0 | 27 | ND | ND | 2.523 | 2.523 | | | | | | | | | |
| 57 | 11 | 19 | 24.426 | 2491 | 2 | 46.93S | 20 | 21.72E | 3 | 15S | 20 | 30E | 666343 | 24519 | 168 | 31 | 82 | 33 | 14 | 54 | 0 | 27 | ND | ND | 14 | 54 | 0 | 27 | ND | ND | 2.523 | 2.523 | | | | | | | | | |
| 58 | 11 | 19 | 26.915 | 2490 | 2 | 56.82S | 20 | 23.72E | 3 | 25S | 20 | 32E | 666993 | 24517 | 168 | 31 | 82 | 33 | 14 | 55 | 0 | 26 | ND | ND | 14 | 55 | 0 | 26 | ND | ND | 2.523 | 2.523 | | | | | | | | | |
| 59 | 11 | 19 | 29.400 | 2485 | 3 | 6.69S | 20 | 25.71E | 3 | 35S | 20 | 34E | 667645 | 24516 | 168 | 31 | 82 | 33 | 14 | 56 | 0 | 26 | ND | ND | 14 | 56 | 0 | 26 | ND | ND | 2.523 | 2.523 | | | | | | | | | |
| 60 | 11 | 19 | 31.891 | 2490 | 3 | 16.59S | 20 | 27.71E | 3 | 45S | 20 | 36E | 668301 | 24514 | 168 | 31 | 82 | 33 | 14 | 56 | 0 | 25 | ND | ND | 14 | 56 | 0 | 25 | ND | ND | 2.523 | 2.523 | | | | | | | | | |
| 61 | 11 | 19 | 34.381 | 2490 | 3 | 26.48S | 20 | 29.71E | 3 | 55S | 20 | 38E | 668960 | 24513 | 168 | 30 | 82 | 33 | 14 | 57 | 0 | 25 | ND | ND | 14 | 57 | 0 | 25 | ND | ND | 2.523 | 2.523 | | | | | | | | | |

TOP SECRET

HANDLE VIA

PART II

| PASS | 820 AFT | 3MAR65 | FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAL |
|------|---------|--------|------|-----------|---------|---------|---------|---------|---------|----------|-------|---------|--------|---------|---------|---------|-------|
| | HR MI | SEC | MILS | DEG MIN | DEG MIN | DEG MIN | DEG MIN | MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATC |
| 1 | 0 37 | 45.662 | 0 | 69 47.30N | 145 | 5.34E | 70 | 8N 143 | 59E | 707663 | 24427 | 133 | 0 | 10 33 | ND | ND | 1.982 |
| 2 | 0 37 | 48.832 | 3170 | 69 38.61N | 145 | 32.01E | 70 | 8N 144 | 26E | 707012 | 24429 | 133 | 26 | 10 45 | ND | ND | 1.982 |
| 3 | 0 37 | 51.647 | 2015 | 69 30.83N | 145 | 55.38E | 69 | 52N 144 | 50E | 706258 | 24431 | 133 | 49 | 10 56 | ND | ND | 2.232 |
| 4 | 0 37 | 54.343 | 2695 | 69 23.33N | 146 | 17.49E | 69 | 45N 145 | 13E | 705537 | 24433 | 134 | 11 | 11 6 | ND | ND | 2.331 |
| 5 | 0 37 | 56.987 | 2645 | 69 15.92N | 146 | 38.92E | 69 | 37N 145 | 36E | 704131 | 24434 | 134 | 53 | 11 16 | ND | ND | 2.375 |
| 6 | 0 37 | 59.617 | 2630 | 69 8.51N | 146 | 59.99E | 69 | 30N 145 | 57E | 704131 | 24436 | 134 | 53 | 11 26 | ND | ND | 2.389 |
| 7 | 0 38 | 2.228 | 2610 | 69 1.11N | 147 | 20.66E | 69 | 23N 146 | 19E | 703136 | 24438 | 135 | 14 | 11 37 | ND | ND | 2.407 |
| 8 | 0 38 | 4.827 | 2600 | 68 53.69N | 147 | 41.01E | 69 | 16N 146 | 40E | 702746 | 24439 | 135 | 34 | 11 47 | ND | ND | 2.417 |
| 9 | 0 38 | 7.418 | 2590 | 68 46.26N | 148 | 1.06E | 69 | 8N 147 | 1E | 702668 | 24441 | 135 | 54 | 11 57 | ND | ND | 2.426 |
| 10 | 0 38 | 10.003 | 2585 | 68 38.80N | 148 | 20.83E | 69 | 1N 147 | 21E | 701377 | 24442 | 136 | 14 | 12 7 | ND | ND | 2.431 |
| 11 | 0 38 | 12.573 | 2571 | 68 31.34N | 148 | 40.27E | 68 | 53N 147 | 41E | 700698 | 24444 | 136 | 33 | 12 17 | ND | ND | 2.444 |
| 12 | 0 38 | 15.147 | 2574 | 68 23.83N | 148 | 59.53E | 68 | 46N 148 | 1E | 700021 | 24446 | 136 | 52 | 12 27 | ND | ND | 2.441 |
| 13 | 0 38 | 17.707 | 2560 | 68 16.32N | 149 | 18.45E | 68 | 39N 148 | 21E | 699347 | 24447 | 137 | 11 | 12 36 | ND | ND | 2.454 |
| 14 | 0 38 | 20.272 | 2565 | 68 8.76N | 149 | 37.21E | 68 | 31N 148 | 40E | 698674 | 24449 | 137 | 30 | 12 46 | ND | ND | 2.450 |
| 15 | 0 38 | 22.827 | 2555 | 68 1.19N | 149 | 55.68E | 68 | 24N 149 | 0E | 698005 | 24450 | 137 | 48 | 12 56 | ND | ND | 2.459 |
| 16 | 0 38 | 25.383 | 2555 | 67 53.58N | 150 | 13.94E | 68 | 16N 149 | 19E | 697337 | 24452 | 138 | 6 | 13 6 | ND | ND | 2.459 |
| 17 | 0 38 | 27.933 | 2550 | 67 45.96N | 150 | 31.97E | 68 | 9N 149 | 37E | 696672 | 24453 | 138 | 24 | 13 16 | ND | ND | 2.464 |
| 18 | 0 38 | 30.478 | 2545 | 67 38.31N | 150 | 49.76E | 68 | 1N 149 | 56E | 696010 | 24455 | 138 | 41 | 13 26 | ND | ND | 2.469 |
| 19 | 0 38 | 33.022 | 2545 | 67 30.62N | 151 | 7.35E | 67 | 53N 150 | 14E | 695349 | 24456 | 138 | 59 | 13 36 | ND | ND | 2.469 |
| 20 | 0 38 | 35.563 | 2540 | 67 22.92N | 151 | 24.71E | 67 | 46N 150 | 32E | 694650 | 24458 | 139 | 16 | 13 45 | ND | ND | 2.474 |
| 21 | 0 38 | 38.098 | 2535 | 67 15.20N | 151 | 41.85E | 67 | 38N 150 | 50E | 694034 | 24459 | 139 | 33 | 13 55 | ND | ND | 2.479 |
| 22 | 0 38 | 40.628 | 2530 | 67 7.46N | 151 | 58.77E | 67 | 31N 151 | 7E | 693380 | 24461 | 139 | 50 | 14 5 | ND | ND | 2.483 |
| 23 | 0 38 | 43.152 | 2525 | 66 59.71N | 152 | 15.46E | 67 | 23N 151 | 24E | 692730 | 24463 | 140 | 6 | 14 15 | ND | ND | 2.488 |
| 24 | 0 38 | 45.683 | 2530 | 66 51.90N | 152 | 32.01E | 67 | 15N 151 | 42E | 692079 | 24464 | 140 | 23 | 14 25 | ND | ND | 2.483 |
| 25 | 0 38 | 48.202 | 2520 | 66 44.10N | 152 | 48.31E | 67 | 7N 151 | 58E | 691433 | 24466 | 140 | 39 | 14 34 | ND | ND | 2.493 |
| 26 | 0 38 | 50.718 | 2515 | 66 36.28N | 153 | 4.41E | 67 | 0N 152 | 15E | 690789 | 24467 | 140 | 55 | 14 44 | ND | ND | 2.498 |
| 27 | 0 38 | 53.232 | 2515 | 66 28.43N | 153 | 20.33E | 66 | 52N 152 | 32E | 690146 | 24468 | 141 | 11 | 14 54 | ND | ND | 2.498 |
| 28 | 0 38 | 55.747 | 2515 | 66 20.56N | 153 | 36.07E | 66 | 44N 152 | 48E | 689505 | 24470 | 141 | 26 | 15 3 | ND | ND | 2.498 |
| 29 | 0 38 | 58.253 | 2505 | 66 12.68N | 153 | 51.59E | 66 | 36N 153 | 4E | 688868 | 24471 | 141 | 42 | 15 13 | ND | ND | 2.508 |
| 30 | 0 39 | 0.758 | 2505 | 66 4.78N | 154 | 6.94E | 66 | 28N 153 | 20E | 688232 | 24473 | 141 | 57 | 15 23 | ND | ND | 2.508 |
| 31 | 0 39 | 3.258 | 2500 | 65 56.86N | 154 | 22.10E | 66 | 20N 153 | 35E | 687599 | 24474 | 142 | 12 | 15 33 | ND | ND | 2.513 |
| 32 | 0 39 | 5.758 | 2500 | 65 48.92N | 154 | 37.10E | 66 | 13N 153 | 51E | 686967 | 24476 | 142 | 27 | 15 42 | ND | ND | 2.513 |
| 33 | 0 39 | 8.253 | 2495 | 65 40.97N | 154 | 51.90E | 66 | 5N 154 | 6E | 686338 | 24477 | 142 | 41 | 15 52 | ND | ND | 2.518 |
| 34 | 0 39 | 10.747 | 2495 | 65 32.99N | 155 | 6.55E | 65 | 52N 154 | 21E | 685702 | 24479 | 142 | 56 | 16 1 | ND | ND | 2.518 |
| 35 | 0 39 | 13.232 | 2485 | 65 25.01N | 155 | 20.99E | 65 | 49N 154 | 36E | 685087 | 24480 | 143 | 10 | 16 11 | ND | ND | 2.528 |
| 36 | 0 39 | 15.723 | 2490 | 65 17.00N | 155 | 35.31E | 65 | 41N 154 | 51E | 684463 | 24482 | 143 | 24 | 16 21 | ND | ND | 2.528 |
| 37 | 0 39 | 18.207 | 2485 | 65 8.98N | 155 | 49.44E | 65 | 33N 155 | 6E | 683842 | 24483 | 143 | 38 | 16 30 | ND | ND | 2.528 |
| 38 | 0 39 | 20.688 | 2480 | 65 0.94N | 156 | 3.40E | 65 | 25N 155 | 20E | 683223 | 24485 | 143 | 52 | 16 40 | ND | ND | 2.534 |

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TOP SECRET

HANDLE VIA

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PASS 830 AFT 3MAR65

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|-----|--------|------|--------|--------|----------|--------|---------|--------|-------|------|-----|-------|---------|-------|-----|----|----|----|----|----|----|-------|
| HR | MI | SEC | LAT | MIN | DEG | MIN | DEG | MI | DEG | MIN | DEG | RATE | | | | | | | | | | |
| 1 | 2 | 7 | 58.116 | 0 | 68 | 58.75N | 124 | 46.61E | 69 | 20N | 123 | 45E | 702359 | 24440 | 135 | 21 | 11 | 38 | ND | ND | ND | 1.832 |
| 2 | 2 | 8 | 1.547 | 3430 | 68 | 48.94N | 125 | 13.32E | 69 | 11N | 124 | 13E | 701453 | 24442 | 135 | 47 | 11 | 51 | ND | ND | ND | 1.832 |
| 3 | 2 | 8 | 4.422 | 2875 | 68 | 40.65N | 125 | 35.39E | 69 | 3N | 124 | 36E | 700694 | 24444 | 136 | 9 | 12 | 2 | ND | ND | ND | 2.185 |
| 4 | 2 | 8 | 7.146 | 2725 | 68 | 32.76N | 125 | 56.05E | 68 | 55N | 124 | 57E | 699978 | 24446 | 136 | 30 | 12 | 13 | ND | ND | ND | 2.306 |
| 5 | 2 | 8 | 9.802 | 2655 | 68 | 25.01N | 126 | 15.95E | 68 | 47N | 125 | 18E | 699280 | 24447 | 136 | 49 | 12 | 23 | ND | ND | ND | 2.367 |
| 6 | 2 | 8 | 12.432 | 2630 | 68 | 17.31N | 126 | 35.43E | 68 | 40N | 125 | 58E | 698591 | 24449 | 137 | 9 | 12 | 33 | ND | ND | ND | 2.389 |
| 7 | 2 | 8 | 15.047 | 2615 | 68 | 9.60N | 126 | 54.47E | 68 | 32N | 125 | 58E | 697907 | 24450 | 137 | 28 | 12 | 43 | ND | ND | ND | 2.403 |
| 8 | 2 | 8 | 17.651 | 2605 | 68 | 1.89N | 127 | 13.42E | 68 | 24N | 126 | 17E | 697227 | 24452 | 137 | 46 | 12 | 53 | ND | ND | ND | 2.412 |
| 9 | 2 | 8 | 20.246 | 2595 | 67 | 54.17N | 127 | 31.99E | 68 | 17N | 126 | 37E | 696551 | 24454 | 138 | 5 | 13 | 4 | ND | ND | ND | 2.421 |
| 10 | 2 | 8 | 22.837 | 2590 | 67 | 46.42N | 127 | 50.32E | 68 | 9N | 126 | 56E | 695878 | 24455 | 138 | 23 | 13 | 14 | ND | ND | ND | 2.426 |
| 11 | 2 | 8 | 25.416 | 2580 | 67 | 38.67N | 128 | 8.35E | 68 | 1N | 127 | 14E | 695208 | 24457 | 138 | 41 | 13 | 24 | ND | ND | ND | 2.435 |
| 12 | 2 | 8 | 27.995 | 2579 | 67 | 30.88N | 128 | 26.19E | 67 | 54N | 127 | 33E | 694541 | 24458 | 138 | 58 | 13 | 34 | ND | ND | ND | 2.436 |
| 13 | 2 | 8 | 30.566 | 2571 | 67 | 23.08N | 128 | 43.77E | 67 | 46N | 127 | 51E | 693877 | 24460 | 139 | 33 | 13 | 43 | ND | ND | ND | 2.444 |
| 14 | 2 | 8 | 33.137 | 2570 | 67 | 15.26N | 129 | 1.15E | 67 | 38N | 128 | 27E | 693214 | 24461 | 139 | 33 | 13 | 53 | ND | ND | ND | 2.445 |
| 15 | 2 | 8 | 35.696 | 2560 | 67 | 7.43N | 129 | 18.27E | 67 | 30N | 128 | 27E | 692555 | 24463 | 139 | 50 | 14 | 3 | ND | ND | ND | 2.454 |
| 16 | 2 | 8 | 38.256 | 2559 | 66 | 59.56N | 129 | 35.19E | 67 | 23N | 128 | 44E | 691898 | 24464 | 140 | 7 | 14 | 13 | ND | ND | ND | 2.455 |
| 17 | 2 | 8 | 40.812 | 2556 | 66 | 51.68N | 129 | 51.90E | 67 | 15N | 129 | 2E | 691243 | 24466 | 140 | 23 | 14 | 23 | ND | ND | ND | 2.458 |
| 18 | 2 | 8 | 43.361 | 2550 | 66 | 43.78N | 130 | 8.39E | 67 | 7N | 129 | 19E | 690591 | 24467 | 140 | 40 | 14 | 33 | ND | ND | ND | 2.464 |
| 19 | 2 | 8 | 45.906 | 2545 | 66 | 35.87N | 130 | 24.67E | 66 | 59N | 129 | 35E | 689942 | 24469 | 140 | 56 | 14 | 43 | ND | ND | ND | 2.474 |
| 20 | 2 | 8 | 48.446 | 2540 | 66 | 27.94N | 130 | 40.74E | 66 | 51N | 129 | 52E | 689296 | 24470 | 141 | 12 | 14 | 53 | ND | ND | ND | 2.479 |
| 21 | 2 | 8 | 50.991 | 2545 | 66 | 19.96N | 130 | 56.66E | 66 | 43N | 130 | 9E | 688649 | 24472 | 141 | 27 | 15 | 3 | ND | ND | ND | 2.469 |
| 22 | 2 | 8 | 53.521 | 2530 | 66 | 12.01N | 131 | 12.32E | 66 | 36N | 130 | 25E | 688008 | 24473 | 141 | 43 | 15 | 12 | ND | ND | ND | 2.483 |
| 23 | 2 | 8 | 56.052 | 2530 | 66 | 4.02N | 131 | 27.81E | 66 | 28N | 130 | 41E | 687368 | 24475 | 141 | 58 | 15 | 22 | ND | ND | ND | 2.483 |
| 24 | 2 | 8 | 58.581 | 2530 | 65 | 56.01N | 131 | 43.13E | 66 | 20N | 130 | 57E | 686730 | 24476 | 142 | 13 | 15 | 32 | ND | ND | ND | 2.495 |
| 25 | 2 | 9 | 1.100 | 2518 | 65 | 48.00N | 131 | 58.22E | 66 | 12N | 131 | 12E | 686096 | 24478 | 142 | 28 | 15 | 42 | ND | ND | ND | 2.495 |
| 26 | 2 | 9 | 3.627 | 2527 | 65 | 39.94N | 132 | 13.28E | 66 | 4N | 131 | 28E | 685461 | 24479 | 142 | 43 | 15 | 51 | ND | ND | ND | 2.486 |
| 27 | 2 | 9 | 6.142 | 2515 | 65 | 31.90N | 132 | 27.94E | 65 | 56N | 131 | 43E | 684831 | 24481 | 142 | 58 | 16 | 1 | ND | ND | ND | 2.498 |
| 28 | 2 | 9 | 8.656 | 2515 | 65 | 23.82N | 132 | 42.53E | 65 | 48N | 131 | 58E | 684202 | 24482 | 143 | 12 | 16 | 11 | ND | ND | ND | 2.498 |
| 29 | 2 | 9 | 11.172 | 2515 | 65 | 15.72N | 132 | 56.97E | 65 | 40N | 132 | 13E | 683575 | 24484 | 143 | 26 | 16 | 21 | ND | ND | ND | 2.498 |
| 30 | 2 | 9 | 13.677 | 2505 | 65 | 7.63N | 133 | 11.28E | 65 | 32N | 132 | 28E | 682951 | 24485 | 143 | 40 | 16 | 30 | ND | ND | ND | 2.508 |
| 31 | 2 | 9 | 16.177 | 2500 | 64 | 59.53N | 133 | 25.25E | 65 | 24N | 132 | 42E | 682331 | 24487 | 143 | 54 | 16 | 40 | ND | ND | ND | 2.513 |
| 32 | 2 | 9 | 18.678 | 2501 | 64 | 51.40N | 133 | 39.16E | 65 | 15N | 132 | 57E | 681712 | 24488 | 144 | 8 | 16 | 50 | ND | ND | ND | 2.512 |
| 33 | 2 | 9 | 21.177 | 2499 | 64 | 43.25N | 133 | 52.91E | 65 | 7N | 133 | 11E | 681094 | 24489 | 144 | 22 | 16 | 59 | ND | ND | ND | 2.514 |
| 34 | 2 | 9 | 23.668 | 2491 | 64 | 35.10N | 134 | 6.48E | 64 | 59N | 133 | 25E | 680480 | 24491 | 144 | 35 | 17 | 9 | ND | ND | ND | 2.522 |
| 35 | 2 | 9 | 26.156 | 2489 | 64 | 26.95N | 134 | 19.89E | 64 | 51N | 133 | 39E | 679868 | 24492 | 144 | 48 | 17 | 19 | ND | ND | ND | 2.535 |
| 36 | 2 | 9 | 28.636 | 2479 | 64 | 18.79N | 134 | 33.12E | 64 | 43N | 133 | 52E | 679259 | 24494 | 144 | 5 | 17 | 28 | ND | ND | ND | 2.535 |
| 37 | 2 | 9 | 31.121 | 2486 | 64 | 10.60N | 134 | 46.24E | 64 | 35N | 134 | 6E | 678651 | 24495 | 145 | 14 | 17 | 38 | ND | ND | ND | 2.527 |
| 38 | 2 | 9 | 33.606 | 2485 | 64 | 2.38N | 134 | 59.23E | 64 | 27N | 134 | 19E | 678045 | 24496 | 145 | 27 | 17 | 47 | ND | ND | ND | 2.528 |
| 39 | 2 | 13 | 56.727 | 63120 | 48 | 13.58N | 149 | 35.26E | 48 | 39N | 149 | 19E | 6233953 | 24623 | 159 | 32 | 34 | 40 | ND | ND | ND | 2.043 |
| 40 | 2 | 13 | 59.802 | 3075 | 48 | 1.91N | 149 | 41.75E | 48 | 27N | 149 | 26E | 623460 | 24624 | 159 | 38 | 34 | 52 | ND | ND | ND | 2.043 |
| 41 | 2 | 14 | 2.352 | 2550 | 47 | 52.23N | 149 | 47.09E | 48 | 18N | 149 | 31E | 623054 | 24625 | 159 | 43 | 35 | 2 | ND | ND | ND | 2.464 |
| 42 | 2 | 14 | 4.752 | 2400 | 47 | 43.10N | 149 | 52.08E | 48 | 9N | 149 | 37E | 622673 | 24626 | 159 | 48 | 35 | 11 | ND | ND | ND | 2.702 |
| 43 | 2 | 14 | 7.076 | 2325 | 47 | 34.27N | 149 | 56.88E | 48 | 0N | 149 | 41E | 622307 | 24627 | 159 | 52 | 35 | 20 | ND | ND | ND | 2.702 |
| 44 | 2 | 14 | 9.377 | 2300 | 47 | 25.51N | 150 | 1.61E | 47 | 51N | 149 | 46E | 621947 | 24628 | 159 | 57 | 35 | 29 | ND | ND | ND | 2.732 |
| 45 | 2 | 14 | 11.657 | 2281 | 47 | 16.83N | 150 | 6.26E | 47 | 42N | 149 | 51E | 621592 | 24629 | 160 | 1 | 35 | 37 | ND | ND | ND | 2.755 |

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| FRM | Z TIME | | | DTM | CAMERA NADIR | | | FORMAT CENTER | | | ALTITUDE VELOC AZIMUTH SUN/ | | | PITCH | ROLL | YAW | SCAN RATE | | | | | |
|-----|--------|----|--------|------|--------------|--------|------|---------------|-----|------|-----------------------------|-----|--------|-------|------|-----|-----------|----|-----|----|-----|-------|
| | HR | MI | SEC | | DEG | MIN | LONG | DEG | MIN | LONG | MIN | F/S | DEG | | | | | MI | DEG | MI | DEG | MIN |
| 46 | 2 | 14 | 13.932 | 2274 | 47 | 8.17N | 150 | 10.88E | 47 | 34N | 149 | 56E | 621240 | 24630 | 160 | 5 | 35 | 46 | ND | ND | ND | 2.763 |
| 47 | 2 | 14 | 16.196 | 2265 | 46 | 59.54N | 150 | 15.44E | 47 | 25N | 150 | 0E | 620891 | 24631 | 160 | 9 | 35 | 55 | ND | ND | ND | 2.774 |
| 48 | 2 | 14 | 18.456 | 2260 | 46 | 50.93N | 150 | 19.97E | 47 | 16N | 150 | 5E | 620545 | 24631 | 160 | 13 | 36 | 3 | ND | ND | ND | 2.780 |
| 49 | 2 | 14 | 20.718 | 2261 | 46 | 42.30N | 150 | 24.48E | 47 | 8N | 150 | 10E | 620201 | 24632 | 160 | 18 | 36 | 12 | ND | ND | ND | 2.779 |
| 50 | 2 | 14 | 22.973 | 2255 | 46 | 33.70N | 150 | 28.94E | 46 | 59N | 150 | 14E | 619860 | 24633 | 160 | 22 | 36 | 20 | ND | ND | ND | 2.786 |
| 51 | 2 | 14 | 25.227 | 2254 | 46 | 25.09N | 150 | 33.38E | 46 | 50N | 150 | 19E | 619522 | 24634 | 160 | 26 | 36 | 29 | ND | ND | ND | 2.788 |
| 52 | 2 | 14 | 27.481 | 2255 | 46 | 16.48N | 150 | 37.80E | 46 | 42N | 150 | 23E | 619184 | 24635 | 160 | 30 | 36 | 37 | ND | ND | ND | 2.786 |
| 53 | 2 | 14 | 29.731 | 2250 | 46 | 7.88N | 150 | 42.17E | 46 | 33N | 150 | 28E | 618850 | 24635 | 160 | 34 | 36 | 46 | ND | ND | ND | 2.793 |
| 54 | 2 | 14 | 31.981 | 2250 | 45 | 59.28N | 150 | 46.53E | 46 | 25N | 150 | 32E | 618518 | 24636 | 160 | 38 | 36 | 55 | ND | ND | ND | 2.793 |
| 55 | 2 | 14 | 34.227 | 2245 | 45 | 50.69N | 150 | 50.85E | 46 | 16N | 150 | 36E | 618189 | 24637 | 160 | 41 | 37 | 3 | ND | ND | ND | 2.799 |
| 56 | 2 | 14 | 36.472 | 2245 | 45 | 42.10N | 150 | 55.14E | 46 | 7N | 150 | 41E | 617862 | 24638 | 160 | 45 | 37 | 12 | ND | ND | ND | 2.799 |
| 57 | 2 | 14 | 38.717 | 2245 | 45 | 33.50N | 150 | 59.41E | 45 | 59N | 150 | 45E | 617536 | 24639 | 160 | 49 | 37 | 20 | ND | ND | ND | 2.799 |
| 58 | 2 | 14 | 40.962 | 2245 | 45 | 24.90N | 151 | 3.65E | 45 | 50N | 150 | 50E | 617213 | 24639 | 160 | 53 | 37 | 29 | ND | ND | ND | 2.799 |
| 59 | 2 | 14 | 43.201 | 2240 | 45 | 16.32N | 151 | 7.86E | 45 | 42N | 150 | 54E | 616893 | 24640 | 160 | 57 | 37 | 37 | ND | ND | ND | 2.805 |
| 60 | 2 | 14 | 45.441 | 2240 | 45 | 7.74N | 151 | 12.05E | 45 | 33N | 150 | 58E | 616574 | 24641 | 161 | 1 | 37 | 46 | ND | ND | ND | 2.805 |
| 61 | 2 | 14 | 47.682 | 2240 | 44 | 59.15N | 151 | 16.22E | 45 | 24N | 151 | 2E | 616258 | 24642 | 161 | 4 | 37 | 54 | ND | ND | ND | 2.805 |
| 62 | 2 | 14 | 49.922 | 2240 | 44 | 50.55N | 151 | 20.36E | 45 | 16N | 151 | 7E | 615944 | 24642 | 161 | 8 | 38 | 3 | ND | ND | ND | 2.805 |

TALENT-KEYHOLE CONTROL ONLY

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| FRM | Z TIME | HR MI SEC | DTIM MILS | CAMERA | NADIR | FORMAT | CENTER | ALTIITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-----|--------|-----------|-----------|--------|--------|--------|--------|-----------|-------|---------|--------|---------|---------|---------|-------|
| | | | | LAT | LONG | LAT | LONG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 1 | 3 38 | 49.575 | 0 | 66 | 8.50N | 108 | 36.36E | 687081 | 24475 | 141 | 50 | 15 | 15 | ND | 1.829 |
| 2 | 3 38 | 53.011 | 3435 | 65 | 57.63N | 108 | 59.25E | 686216 | 24477 | 142 | 10 | 15 | 28 | ND | 1.829 |
| 3 | 3 38 | 55.841 | 2830 | 65 | 48.64N | 109 | 16.24E | 685586 | 24479 | 142 | 27 | 15 | 39 | ND | 2.220 |
| 4 | 3 38 | 58.511 | 2670 | 65 | 40.13N | 109 | 32.07E | 684838 | 24481 | 142 | 43 | 15 | 50 | ND | 2.353 |
| 5 | 3 39 | 1.105 | 2595 | 65 | 31.82N | 109 | 4.22E | 684189 | 24482 | 142 | 58 | 16 | 0 | ND | 2.421 |
| 6 | 3 39 | 3.681 | 2575 | 65 | 23.55N | 110 | 2.22E | 683548 | 24484 | 143 | 13 | 16 | 10 | ND | 2.440 |
| 7 | 3 39 | 6.240 | 2560 | 65 | 15.31N | 110 | 16.91E | 682911 | 24485 | 143 | 27 | 16 | 20 | ND | 2.454 |
| 8 | 3 39 | 8.785 | 2545 | 65 | 7.08N | 110 | 31.36E | 682280 | 24486 | 143 | 41 | 16 | 29 | ND | 2.469 |
| 9 | 3 39 | 11.325 | 2540 | 64 | 58.85N | 110 | 45.62E | 681652 | 24488 | 143 | 55 | 16 | 39 | ND | 2.474 |
| 10 | 3 39 | 13.855 | 2530 | 64 | 50.62N | 110 | 59.68E | 681227 | 24489 | 144 | 9 | 16 | 49 | ND | 2.483 |
| 11 | 3 39 | 16.382 | 2526 | 64 | 42.38N | 111 | 13.57E | 680805 | 24491 | 144 | 23 | 16 | 59 | ND | 2.487 |
| 12 | 3 39 | 18.905 | 2524 | 64 | 34.13N | 111 | 27.30E | 679785 | 24492 | 144 | 37 | 17 | 9 | ND | 2.489 |
| 13 | 3 39 | 21.421 | 2515 | 64 | 25.88N | 111 | 40.84E | 679169 | 24494 | 144 | 50 | 17 | 18 | ND | 2.498 |
| 14 | 3 39 | 23.932 | 2511 | 64 | 17.63N | 111 | 54.22E | 678555 | 24495 | 145 | 3 | 17 | 28 | ND | 2.509 |
| 15 | 3 39 | 26.436 | 2504 | 64 | 9.38N | 112 | 7.42E | 677944 | 24497 | 145 | 16 | 17 | 38 | ND | 2.509 |
| 16 | 3 39 | 28.940 | 2505 | 64 | 1.08N | 112 | 20.49E | 677336 | 24498 | 145 | 29 | 17 | 47 | ND | 2.508 |
| 17 | 3 39 | 31.436 | 2495 | 63 | 52.80N | 112 | 33.38E | 676730 | 24499 | 145 | 42 | 17 | 57 | ND | 2.518 |
| 18 | 3 39 | 33.936 | 2500 | 63 | 44.49N | 112 | 46.16E | 676125 | 24501 | 145 | 54 | 18 | 7 | ND | 2.513 |
| 19 | 3 39 | 36.426 | 2490 | 63 | 36.19N | 112 | 58.76E | 675524 | 24502 | 146 | 7 | 18 | 16 | ND | 2.523 |
| 20 | 3 39 | 38.910 | 2485 | 63 | 27.89N | 113 | 11.20E | 674926 | 24504 | 146 | 19 | 18 | 26 | ND | 2.528 |
| 21 | 3 39 | 41.396 | 2480 | 63 | 19.57N | 113 | 23.53E | 674329 | 24505 | 146 | 31 | 18 | 36 | ND | 2.528 |
| 22 | 3 39 | 43.875 | 2480 | 63 | 11.24N | 113 | 35.70E | 673735 | 24506 | 146 | 43 | 18 | 45 | ND | 2.534 |
| 23 | 3 39 | 46.355 | 2480 | 63 | 2.89N | 113 | 47.76E | 673143 | 24508 | 146 | 55 | 18 | 55 | ND | 2.534 |
| 24 | 3 39 | 48.825 | 2470 | 62 | 54.56N | 113 | 59.64E | 672554 | 24509 | 147 | 7 | 19 | 4 | ND | 2.544 |
| 25 | 3 39 | 51.296 | 2470 | 62 | 46.21N | 114 | 11.41E | 671967 | 24510 | 147 | 18 | 19 | 14 | ND | 2.544 |
| 26 | 3 39 | 53.766 | 2470 | 62 | 37.84N | 114 | 23.07E | 671382 | 24512 | 147 | 30 | 19 | 24 | ND | 2.544 |
| 27 | 3 39 | 56.230 | 2465 | 62 | 29.47N | 114 | 34.58E | 670799 | 24513 | 147 | 41 | 19 | 33 | ND | 2.549 |
| 28 | 3 39 | 58.690 | 2460 | 62 | 21.10N | 114 | 45.96E | 670219 | 24515 | 147 | 52 | 19 | 43 | ND | 2.554 |
| 29 | 3 40 | 1.150 | 2460 | 62 | 12.71N | 114 | 57.23E | 669641 | 24516 | 148 | 3 | 19 | 52 | ND | 2.554 |
| 30 | 3 40 | 3.601 | 2450 | 62 | 4.34N | 115 | 8.35E | 669066 | 24517 | 148 | 14 | 20 | 2 | ND | 2.565 |
| 31 | 3 40 | 6.056 | 2455 | 61 | 55.93N | 115 | 19.38E | 668493 | 24519 | 148 | 25 | 20 | 11 | ND | 2.559 |
| 32 | 3 40 | 8.506 | 2450 | 61 | 47.53N | 115 | 30.82E | 667922 | 24520 | 148 | 36 | 20 | 21 | ND | 2.565 |
| 33 | 3 40 | 10.945 | 2440 | 61 | 39.14N | 115 | 41.04E | 667354 | 24521 | 148 | 46 | 20 | 30 | ND | 2.575 |
| 34 | 3 40 | 13.391 | 2445 | 61 | 30.72N | 115 | 51.72E | 666787 | 24523 | 148 | 57 | 20 | 40 | ND | 2.570 |
| 35 | 3 40 | 15.836 | 2435 | 61 | 22.28N | 116 | 2.29E | 666222 | 24524 | 149 | 7 | 20 | 49 | ND | 2.570 |
| 36 | 3 40 | 18.271 | 2435 | 61 | 13.86N | 116 | 12.73E | 665661 | 24525 | 149 | 17 | 20 | 58 | ND | 2.588 |
| 37 | 3 40 | 20.708 | 2430 | 61 | 5.45N | 116 | 23.04E | 665102 | 24526 | 149 | 27 | 21 | 8 | ND | 2.586 |
| 38 | 3 40 | 23.136 | 2435 | 60 | 56.99N | 116 | 33.28E | 664544 | 24528 | 149 | 37 | 21 | 17 | ND | 2.580 |
| 39 | 3 40 | 25.561 | 2425 | 60 | 48.57N | 116 | 43.39E | 663989 | 24529 | 149 | 47 | 21 | 27 | ND | 2.591 |
| 40 | 3 40 | 27.990 | 2430 | 60 | 40.11N | 116 | 53.41E | 663436 | 24530 | 149 | 57 | 21 | 36 | ND | 2.586 |
| 41 | 3 40 | 30.410 | 2420 | 60 | 31.66N | 117 | 3.31E | 662886 | 24532 | 150 | 7 | 21 | 45 | ND | 2.596 |
| 42 | 3 40 | 32.830 | 2420 | 60 | 23.21N | 117 | 13.12E | 662338 | 24533 | 150 | 16 | 21 | 55 | ND | 2.596 |
| 43 | 3 40 | 35.245 | 2415 | 60 | 14.76N | 117 | 22.82E | 661792 | 24534 | 150 | 26 | 22 | 4 | ND | 2.602 |
| 44 | 3 40 | 37.660 | 2415 | 60 | 6.29N | 117 | 32.43E | 661248 | 24535 | 150 | 35 | 22 | 13 | ND | 2.602 |
| 45 | 3 44 | 22.106 | 24446 | 46 | 17.64N | 127 | 56.43E | 618881 | 24635 | 160 | 29 | 36 | 36 | ND | 0.028 |

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| FRM | 2 TIME | | DTIM | CAMERA NADR | | | FORMAT CENTER | | | ALTITUDE VELOC | | AZIMUTH SUN/ | | PITCH | | ROLL | | YAW | | SCAN | |
|-----|--------|-----|--------|-------------|-----|--------|---------------|--------|-----|----------------|------|--------------|--------|-------|-----|------|-----|-----|-----|------|-------|
| HR | MI | SEC | MILS | LAT | MIN | DEG | LONG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MIN | DEG | MIN | DEG | MIN | RATE |
| 46 | 3 | 44 | 25.195 | 3089 | 46 | 5.83N | 128 | 2.43E | 46 | 31N | 127 | 48E | 618425 | 24636 | 160 | 35 | 36 | 48 | ND | ND | 2.034 |
| 47 | 3 | 44 | 27.738 | 2543 | 45 | 56.11N | 128 | 7.35E | 46 | 21N | 127 | 53E | 618053 | 24637 | 160 | 39 | 36 | 58 | ND | ND | 2.471 |
| 48 | 3 | 44 | 30.131 | 2392 | 45 | 46.96N | 128 | 11.94E | 46 | 12N | 127 | 58E | 617705 | 24638 | 160 | 43 | 37 | 7 | ND | ND | 2.627 |
| 49 | 3 | 44 | 32.442 | 2312 | 45 | 38.11N | 128 | 16.35E | 46 | 3N | 128 | 2E | 617371 | 24639 | 160 | 47 | 37 | 16 | ND | ND | 2.718 |
| 50 | 3 | 44 | 34.740 | 2298 | 45 | 29.31N | 128 | 20.70E | 45 | 55N | 128 | 7E | 617041 | 24640 | 160 | 51 | 37 | 24 | ND | ND | 2.734 |
| 51 | 3 | 44 | 37.021 | 2280 | 45 | 20.58N | 128 | 25.00E | 45 | 46N | 128 | 11E | 616716 | 24640 | 160 | 55 | 37 | 33 | ND | ND | 2.756 |
| 52 | 3 | 44 | 39.285 | 2265 | 45 | 11.90N | 128 | 29.25E | 45 | 37N | 128 | 15E | 616395 | 24641 | 160 | 59 | 37 | 42 | ND | ND | 2.774 |
| 53 | 3 | 44 | 41.541 | 2256 | 45 | 3.25N | 128 | 33.45E | 45 | 29N | 128 | 20E | 616078 | 24642 | 161 | 2 | 37 | 50 | ND | ND | 2.785 |
| 54 | 3 | 44 | 43.806 | 2264 | 44 | 54.56N | 128 | 37.65E | 45 | 20N | 128 | 24E | 615761 | 24643 | 161 | 6 | 37 | 59 | ND | ND | 2.775 |
| 55 | 3 | 44 | 46.062 | 2256 | 44 | 45.90N | 128 | 41.81E | 45 | 11N | 128 | 28E | 615448 | 24643 | 161 | 10 | 38 | 7 | ND | ND | 2.785 |
| 56 | 3 | 44 | 48.310 | 2248 | 44 | 37.27N | 128 | 45.93E | 45 | 3N | 128 | 32E | 615138 | 24644 | 161 | 14 | 38 | 16 | ND | ND | 2.795 |
| 57 | 3 | 44 | 50.557 | 2247 | 44 | 28.64N | 128 | 50.02E | 44 | 54N | 128 | 36E | 614830 | 24645 | 161 | 17 | 38 | 25 | ND | ND | 2.796 |
| 58 | 3 | 44 | 52.811 | 2254 | 44 | 19.98N | 128 | 54.11E | 44 | 45N | 128 | 41E | 614523 | 24646 | 161 | 21 | 38 | 33 | ND | ND | 2.788 |
| 59 | 3 | 44 | 55.053 | 2242 | 44 | 11.36N | 128 | 58.15E | 44 | 37N | 128 | 45E | 614220 | 24646 | 161 | 25 | 38 | 42 | ND | ND | 2.802 |
| 60 | 3 | 44 | 57.302 | 2249 | 44 | 2.71N | 128 | 2.18E | 44 | 28N | 128 | 49E | 613918 | 24647 | 161 | 28 | 38 | 50 | ND | ND | 2.794 |
| 61 | 3 | 44 | 59.547 | 2245 | 43 | 54.07N | 129 | 6.18E | 44 | 19N | 128 | 53E | 613619 | 24648 | 161 | 32 | 38 | 59 | ND | ND | 2.799 |
| 62 | 3 | 45 | 1.796 | 2249 | 43 | 45.42N | 129 | 10.17E | 44 | 11N | 128 | 57E | 613321 | 24648 | 161 | 35 | 39 | 7 | ND | ND | 2.794 |
| 63 | 3 | 45 | 4.036 | 2241 | 43 | 36.79N | 129 | 14.12E | 44 | 2N | 129 | 1E | 613027 | 24649 | 161 | 39 | 39 | 16 | ND | ND | 2.804 |
| 64 | 3 | 45 | 6.277 | 2241 | 43 | 28.16N | 129 | 18.05E | 43 | 53N | 129 | 5E | 612734 | 24650 | 161 | 42 | 39 | 24 | ND | ND | 2.804 |
| 65 | 3 | 45 | 8.516 | 2238 | 43 | 19.54N | 129 | 21.95E | 43 | 45N | 129 | 9E | 612445 | 24650 | 161 | 46 | 39 | 33 | ND | ND | 2.808 |
| 66 | 3 | 45 | 10.758 | 2242 | 43 | 10.89N | 129 | 25.84E | 43 | 36N | 129 | 13E | 612157 | 24651 | 161 | 49 | 39 | 41 | ND | ND | 2.802 |
| 67 | 3 | 45 | 12.995 | 2238 | 43 | 2.27N | 129 | 29.70E | 43 | 28N | 129 | 17E | 611870 | 24652 | 161 | 53 | 39 | 50 | ND | ND | 2.808 |
| 68 | 3 | 45 | 15.235 | 2244 | 42 | 53.62N | 129 | 33.55E | 43 | 19N | 129 | 21E | 611587 | 24653 | 161 | 56 | 39 | 58 | ND | ND | 2.805 |
| 69 | 3 | 45 | 17.477 | 2241 | 42 | 44.98N | 129 | 37.38E | 43 | 10N | 129 | 25E | 611306 | 24653 | 161 | 59 | 40 | 7 | ND | ND | 2.804 |
| 70 | 3 | 45 | 19.716 | 2239 | 42 | 36.33N | 129 | 41.18E | 43 | 2N | 129 | 28E | 611026 | 24654 | 162 | 3 | 40 | 15 | ND | ND | 2.806 |
| 71 | 3 | 45 | 21.946 | 2231 | 42 | 27.72N | 129 | 44.95E | 42 | 53N | 129 | 32E | 610750 | 24655 | 162 | 6 | 40 | 23 | ND | ND | 2.816 |
| 72 | 3 | 45 | 24.187 | 2240 | 42 | 19.06N | 129 | 48.71E | 42 | 44N | 129 | 36E | 610475 | 24655 | 162 | 9 | 40 | 32 | ND | ND | 2.805 |
| 73 | 3 | 45 | 26.421 | 2234 | 42 | 10.43N | 129 | 52.45E | 42 | 36N | 129 | 40E | 610202 | 24656 | 162 | 12 | 40 | 40 | ND | ND | 2.813 |
| 74 | 3 | 45 | 28.651 | 2231 | 42 | 1.80N | 129 | 56.16E | 42 | 27N | 129 | 44E | 609933 | 24656 | 162 | 16 | 40 | 49 | ND | ND | 2.816 |
| 75 | 3 | 45 | 30.891 | 2239 | 41 | 53.14N | 129 | 59.86E | 42 | 18N | 129 | 47E | 609664 | 24657 | 162 | 19 | 40 | 57 | ND | ND | 2.806 |

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| FRM | HR | MI | SEC | DTIM | MILS | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | F/S | DEG | MI | DEG | SUN/ | PITCH | ROLL | YAW | SCAN |
|-----|----|----|--------|------|------|--------|-----|--------|------|-----|-----|-----|--------|----------|-------|-----|-----|----|-----|------|-------|------|-------|------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 1 | 5 | 8 | 5.845 | 0 | 68 | 6.66N | 81 | 39.91E | 68 | 29N | 80 | 44E | 696332 | 24454 | 137 | 34 | 12 | 43 | ND | ND | ND | ND | 1.798 | |
| 2 | 5 | 8 | 9.340 | 0 | 67 | 56.29N | 82 | 5.06E | 68 | 19N | 81 | 10E | 695426 | 24456 | 137 | 59 | 12 | 57 | ND | ND | ND | ND | 1.798 | |
| 3 | 5 | 8 | 12.239 | 2900 | 67 | 47.62N | 82 | 25.62E | 68 | 10N | 81 | 31E | 694677 | 24458 | 138 | 20 | 13 | 8 | ND | ND | ND | ND | 2.167 | |
| 4 | 5 | 8 | 14.971 | 2731 | 67 | 39.42N | 82 | 44.76E | 68 | 2N | 81 | 51E | 693972 | 24459 | 138 | 39 | 13 | 19 | ND | ND | ND | ND | 2.301 | |
| 5 | 5 | 8 | 17.635 | 2664 | 67 | 31.38N | 83 | 3.20E | 67 | 54N | 82 | 10E | 693286 | 24461 | 138 | 57 | 13 | 29 | ND | ND | ND | ND | 2.359 | |
| 6 | 5 | 8 | 20.274 | 2640 | 67 | 23.38N | 83 | 21.27E | 67 | 46N | 82 | 29E | 692609 | 24462 | 139 | 15 | 13 | 39 | ND | ND | ND | ND | 2.388 | |
| 7 | 5 | 8 | 22.899 | 2625 | 67 | 15.38N | 83 | 39.02E | 67 | 38N | 82 | 47E | 691936 | 24464 | 139 | 32 | 13 | 50 | ND | ND | ND | ND | 2.394 | |
| 8 | 5 | 8 | 25.510 | 2610 | 67 | 7.40N | 83 | 56.48E | 67 | 30N | 83 | 5E | 691268 | 24465 | 139 | 50 | 14 | 0 | ND | ND | ND | ND | 2.407 | |
| 9 | 5 | 8 | 28.114 | 2605 | 66 | 59.40N | 84 | 13.70E | 67 | 22N | 83 | 23E | 690680 | 24467 | 140 | 7 | 14 | 10 | ND | ND | ND | ND | 2.412 | |
| 10 | 5 | 8 | 30.705 | 2591 | 66 | 51.40N | 84 | 30.64E | 67 | 15N | 83 | 40E | 689944 | 24469 | 140 | 24 | 14 | 20 | ND | ND | ND | ND | 2.425 | |
| 11 | 5 | 8 | 33.300 | 2594 | 66 | 43.36N | 84 | 47.42E | 67 | 7N | 83 | 58E | 689285 | 24470 | 140 | 40 | 14 | 30 | ND | ND | ND | ND | 2.422 | |
| 12 | 5 | 8 | 35.885 | 2585 | 66 | 35.32N | 85 | 3.95E | 66 | 59N | 84 | 15E | 688630 | 24472 | 140 | 57 | 14 | 40 | ND | ND | ND | ND | 2.431 | |
| 13 | 5 | 8 | 38.459 | 2575 | 66 | 27.29N | 85 | 20.22E | 66 | 51N | 84 | 32E | 687979 | 24473 | 141 | 13 | 14 | 50 | ND | ND | ND | ND | 2.440 | |
| 14 | 5 | 8 | 41.034 | 2575 | 66 | 19.21N | 85 | 36.32E | 66 | 43N | 84 | 48E | 687329 | 24475 | 141 | 29 | 15 | 0 | ND | ND | ND | ND | 2.440 | |
| 15 | 5 | 8 | 43.609 | 2575 | 66 | 11.11N | 85 | 52.24E | 66 | 35N | 85 | 5E | 686681 | 24476 | 141 | 44 | 15 | 10 | ND | ND | ND | ND | 2.440 | |
| 16 | 5 | 8 | 46.175 | 2565 | 66 | 3.01N | 86 | 7.93E | 66 | 27N | 85 | 21E | 686037 | 24478 | 142 | 0 | 15 | 20 | ND | ND | ND | ND | 2.450 | |
| 17 | 5 | 8 | 48.734 | 2565 | 66 | 3.01N | 86 | 7.93E | 66 | 18N | 85 | 37E | 685395 | 24479 | 142 | 15 | 15 | 30 | ND | ND | ND | ND | 2.454 | |
| 18 | 5 | 8 | 51.289 | 2555 | 65 | 46.78N | 86 | 38.70E | 66 | 10N | 85 | 53E | 684756 | 24481 | 142 | 30 | 15 | 40 | ND | ND | ND | ND | 2.459 | |
| 19 | 5 | 8 | 53.840 | 2550 | 65 | 38.64N | 86 | 53.00E | 66 | 2N | 86 | 9E | 684120 | 24482 | 142 | 45 | 15 | 50 | ND | ND | ND | ND | 2.464 | |
| 20 | 5 | 8 | 56.385 | 2545 | 65 | 30.49N | 87 | 8.69E | 65 | 54N | 86 | 24E | 683486 | 24483 | 143 | 0 | 16 | 0 | ND | ND | ND | ND | 2.469 | |
| 21 | 5 | 8 | 58.930 | 2545 | 65 | 22.31N | 87 | 23.43E | 65 | 46N | 86 | 39E | 682854 | 24485 | 143 | 15 | 16 | 9 | ND | ND | ND | ND | 2.469 | |
| 22 | 5 | 9 | 1.470 | 2540 | 65 | 14.13N | 87 | 37.99E | 65 | 38N | 86 | 54E | 682225 | 24486 | 143 | 29 | 16 | 19 | ND | ND | ND | ND | 2.474 | |
| 23 | 5 | 9 | 4.005 | 2535 | 65 | 5.93N | 88 | 5.56E | 65 | 20N | 87 | 9E | 681599 | 24488 | 143 | 43 | 16 | 29 | ND | ND | ND | ND | 2.479 | |
| 24 | 5 | 9 | 6.539 | 2535 | 64 | 57.71N | 88 | 6.57E | 65 | 12N | 87 | 24E | 680974 | 24489 | 143 | 57 | 16 | 39 | ND | ND | ND | ND | 2.479 | |
| 25 | 5 | 9 | 9.064 | 2525 | 64 | 49.50N | 88 | 20.50E | 65 | 5N | 87 | 38E | 680353 | 24491 | 144 | 11 | 16 | 49 | ND | ND | ND | ND | 2.488 | |
| 26 | 5 | 9 | 11.590 | 2525 | 64 | 41.26N | 88 | 34.45E | 65 | 5N | 87 | 53E | 679733 | 24492 | 144 | 25 | 16 | 58 | ND | ND | ND | ND | 2.488 | |
| 27 | 5 | 9 | 14.109 | 2520 | 64 | 33.01N | 88 | 48.14E | 64 | 57N | 88 | 7E | 679117 | 24494 | 144 | 38 | 17 | 8 | ND | ND | ND | ND | 2.493 | |
| 28 | 5 | 9 | 16.624 | 2515 | 64 | 24.76N | 89 | 1.66E | 64 | 49N | 88 | 21E | 678503 | 24495 | 144 | 51 | 17 | 18 | ND | ND | ND | ND | 2.498 | |
| 29 | 5 | 9 | 19.140 | 2515 | 64 | 16.48N | 89 | 15.04E | 64 | 41N | 88 | 35E | 677890 | 24496 | 145 | 5 | 17 | 28 | ND | ND | ND | ND | 2.498 | |
| 30 | 5 | 9 | 21.649 | 2510 | 64 | 8.20N | 89 | 28.26E | 64 | 32N | 88 | 48E | 677281 | 24498 | 145 | 18 | 17 | 37 | ND | ND | ND | ND | 2.503 | |
| 31 | 5 | 9 | 24.159 | 2510 | 63 | 59.90N | 89 | 41.34E | 64 | 24N | 89 | 2E | 676673 | 24499 | 145 | 31 | 17 | 47 | ND | ND | ND | ND | 2.503 | |
| 32 | 5 | 9 | 26.664 | 2505 | 63 | 51.59N | 89 | 54.26E | 64 | 16N | 89 | 15E | 676067 | 24501 | 145 | 43 | 17 | 57 | ND | ND | ND | ND | 2.508 | |
| 33 | 5 | 9 | 29.164 | 2500 | 63 | 43.28N | 90 | 7.02E | 64 | 8N | 89 | 28E | 675465 | 24502 | 145 | 56 | 18 | 7 | ND | ND | ND | ND | 2.513 | |
| 34 | 5 | 9 | 31.659 | 2495 | 63 | 34.96N | 90 | 19.63E | 63 | 59N | 89 | 41E | 674864 | 24504 | 146 | 8 | 18 | 16 | ND | ND | ND | ND | 2.518 | |
| 35 | 5 | 9 | 34.159 | 2500 | 63 | 26.60N | 90 | 32.14E | 63 | 51N | 89 | 54E | 674265 | 24505 | 146 | 21 | 18 | 26 | ND | ND | ND | ND | 2.513 | |
| 36 | 5 | 9 | 36.649 | 2490 | 63 | 18.26N | 90 | 44.47E | 63 | 43N | 90 | 7E | 673669 | 24506 | 146 | 33 | 18 | 36 | ND | ND | ND | ND | 2.523 | |
| 37 | 5 | 9 | 39.140 | 2490 | 63 | 9.89N | 90 | 56.68E | 63 | 34N | 90 | 19E | 673075 | 24508 | 146 | 45 | 18 | 45 | ND | ND | ND | ND | 2.523 | |
| 38 | 5 | 9 | 41.619 | 2480 | 63 | 1.55N | 91 | 8.71E | 63 | 26N | 90 | 32E | 672485 | 24509 | 146 | 57 | 18 | 55 | ND | ND | ND | ND | 2.534 | |
| 39 | 5 | 9 | 44.104 | 2485 | 62 | 53.16N | 91 | 20.65E | 63 | 18N | 90 | 44E | 671895 | 24510 | 147 | 8 | 19 | 5 | ND | ND | ND | ND | 2.528 | |
| 40 | 5 | 9 | 46.584 | 2480 | 62 | 44.77N | 91 | 32.45E | 63 | 9N | 90 | 56E | 671308 | 24512 | 147 | 20 | 19 | 14 | ND | ND | ND | ND | 2.534 | |
| 41 | 5 | 9 | 49.060 | 2475 | 62 | 36.38N | 91 | 44.11E | 63 | 1N | 91 | 8E | 670724 | 24513 | 147 | 31 | 19 | 24 | ND | ND | ND | ND | 2.539 | |
| 42 | 5 | 9 | 51.529 | 2470 | 62 | 27.99N | 91 | 55.63E | 62 | 53N | 91 | 20E | 670142 | 24515 | 147 | 43 | 19 | 33 | ND | ND | ND | ND | 2.544 | |
| 43 | 5 | 9 | 53.999 | 2470 | 62 | 19.59N | 92 | 7.04E | 62 | 44N | 91 | 32E | 669562 | 24516 | 147 | 54 | 19 | 43 | ND | ND | ND | ND | 2.544 | |
| 44 | 5 | 9 | 56.466 | 2466 | 62 | 11.17N | 92 | 18.32E | 62 | 36N | 91 | 44E | 668985 | 24517 | 148 | 5 | 19 | 53 | ND | ND | ND | ND | 2.548 | |
| 45 | 5 | 9 | 58.935 | 2469 | 62 | 21.73N | 92 | 29.50E | 62 | 27N | 91 | 55E | 668409 | 24519 | 148 | 16 | 20 | 2 | ND | ND | ND | ND | 2.545 | |

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| PASS | 850 | AFT | 3MAR65 | CAMERA | | NADIR | | FORMAT | | CENTER | | ALTITUDE | | VELOC | | AZIMUTH | | SUN/ | | PITCH | | ROLL | | YAW | | SCALE |
|------|-----|-----|--------|--------|-----|--------|-----|--------|-----|--------|-----|----------|--------|-------|-----|---------|----|------|----|-------|-----|------|-----|-----|-------|-------|
| FRM | Z | MI | SEC | DTIM | LAT | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MI | DEG | MIN | DEG | MIN | DEG | MIN | RATE |
| 46 | 5 | 10 | 1.391 | 2456 | 61 | 54.32N | 92 | 40.52E | 62 | 19N | 92 | 7E | 667636 | 24520 | 148 | 27 | 20 | 12 | 20 | 12 | ND | ND | ND | ND | 2.558 | |
| 47 | 5 | 10 | 3.850 | 2459 | 61 | 45.88N | 92 | 51.44E | 62 | 11N | 92 | 18E | 667266 | 24521 | 148 | 38 | 20 | 21 | 20 | 21 | ND | ND | ND | ND | 2.555 | |
| 48 | 5 | 10 | 6.305 | 2455 | 61 | 37.43N | 93 | 2.25E | 62 | 2N | 92 | 29E | 666697 | 24523 | 148 | 48 | 20 | 31 | 20 | 31 | ND | ND | ND | ND | 2.559 | |
| 49 | 5 | 10 | 8.760 | 2455 | 61 | 28.97N | 93 | 12.95E | 61 | 54N | 92 | 40E | 666130 | 24524 | 148 | 59 | 20 | 40 | 20 | 40 | ND | ND | ND | ND | 2.559 | |
| 50 | 5 | 10 | 11.204 | 2445 | 61 | 20.54N | 93 | 23.50E | 61 | 45N | 92 | 51E | 665568 | 24525 | 149 | 9 | 20 | 50 | 20 | 50 | ND | ND | ND | ND | 2.570 | |
| 51 | 5 | 10 | 13.654 | 2450 | 61 | 12.06N | 93 | 33.98E | 61 | 37N | 93 | 2E | 665005 | 24527 | 149 | 19 | 20 | 59 | 20 | 59 | ND | ND | ND | ND | 2.565 | |
| 52 | 5 | 10 | 16.100 | 2445 | 61 | 3.59N | 93 | 44.34E | 61 | 28N | 93 | 12E | 664446 | 24528 | 149 | 29 | 21 | 9 | 21 | 9 | ND | ND | ND | ND | 2.570 | |
| 53 | 5 | 10 | 18.539 | 2440 | 60 | 55.12N | 93 | 54.58E | 61 | 20N | 93 | 23E | 663889 | 24529 | 149 | 39 | 21 | 18 | 21 | 18 | ND | ND | ND | ND | 2.575 | |
| 54 | 5 | 10 | 20.976 | 2436 | 60 | 46.65N | 94 | 4.71E | 61 | 12N | 93 | 33E | 663334 | 24530 | 149 | 49 | 21 | 27 | 21 | 27 | ND | ND | ND | ND | 2.579 | |
| 55 | 5 | 10 | 23.410 | 2435 | 60 | 38.17N | 94 | 14.74E | 61 | 3N | 93 | 44E | 662782 | 24532 | 149 | 59 | 21 | 37 | 21 | 37 | ND | ND | ND | ND | 2.580 | |
| 56 | 5 | 10 | 25.850 | 2439 | 60 | 29.65N | 94 | 24.70E | 60 | 55N | 93 | 54E | 662230 | 24533 | 150 | 9 | 21 | 46 | 21 | 46 | ND | ND | ND | ND | 2.576 | |
| 57 | 5 | 10 | 28.279 | 2430 | 60 | 21.16N | 94 | 34.53E | 60 | 46N | 94 | 4E | 661682 | 24534 | 150 | 18 | 21 | 56 | 21 | 56 | ND | ND | ND | ND | 2.586 | |
| 58 | 5 | 10 | 30.704 | 2425 | 60 | 12.67N | 94 | 44.25E | 60 | 38N | 94 | 14E | 661136 | 24536 | 150 | 28 | 22 | 5 | 22 | 5 | ND | ND | ND | ND | 2.591 | |
| 59 | 5 | 10 | 33.130 | 2425 | 60 | 4.16N | 94 | 53.88E | 60 | 29N | 94 | 24E | 660593 | 24537 | 150 | 37 | 22 | 15 | 22 | 15 | ND | ND | ND | ND | 2.591 | |
| 60 | 5 | 17 | 44.215 | 31085 | 32 | 52.71N | 110 | 37.05E | 33 | 18N | 110 | 27E | 597345 | 24687 | 165 | 1 | 49 | 33 | 49 | 33 | ND | ND | ND | ND | 0.015 | |
| 61 | 5 | 17 | 47.225 | 3010 | 32 | 40.87N | 110 | 40.79E | 33 | 6N | 110 | 31E | 597184 | 24687 | 165 | 4 | 49 | 44 | 49 | 44 | ND | ND | ND | ND | 2.087 | |
| 62 | 5 | 17 | 49.704 | 2480 | 32 | 31.12N | 110 | 43.86E | 32 | 56N | 110 | 34E | 597553 | 24687 | 165 | 7 | 49 | 53 | 49 | 53 | ND | ND | ND | ND | 2.534 | |
| 63 | 5 | 17 | 52.040 | 2330 | 32 | 21.93N | 110 | 46.74E | 32 | 47N | 110 | 37E | 596934 | 24688 | 165 | 9 | 50 | 2 | 50 | 2 | ND | ND | ND | ND | 2.690 | |
| 64 | 5 | 17 | 54.324 | 2284 | 32 | 12.94N | 110 | 49.54E | 32 | 38N | 110 | 40E | 596821 | 24688 | 165 | 11 | 50 | 10 | 50 | 10 | ND | ND | ND | ND | 2.751 | |
| 65 | 5 | 17 | 56.580 | 2256 | 32 | 4.06N | 110 | 52.30E | 32 | 29N | 110 | 43E | 596710 | 24688 | 165 | 13 | 50 | 18 | 50 | 18 | ND | ND | ND | ND | 2.785 | |
| 66 | 5 | 17 | 58.829 | 2249 | 31 | 55.20N | 110 | 55.04E | 32 | 20N | 110 | 46E | 596602 | 24688 | 165 | 15 | 50 | 27 | 50 | 27 | ND | ND | ND | ND | 2.794 | |
| 67 | 5 | 18 | 1.074 | 2245 | 31 | 46.36N | 110 | 57.76E | 32 | 11N | 110 | 48E | 596499 | 24689 | 165 | 17 | 50 | 35 | 50 | 35 | ND | ND | ND | ND | 2.799 | |
| 68 | 5 | 18 | 3.314 | 2240 | 31 | 37.54N | 111 | 0.47E | 32 | 3N | 110 | 51E | 596396 | 24689 | 165 | 19 | 50 | 43 | 50 | 43 | ND | ND | ND | ND | 2.805 | |
| 69 | 5 | 18 | 5.555 | 2240 | 31 | 28.71N | 111 | 3.17E | 31 | 54N | 110 | 54E | 596297 | 24689 | 165 | 21 | 50 | 51 | 50 | 51 | ND | ND | ND | ND | 2.805 | |
| 70 | 5 | 18 | 7.789 | 2235 | 31 | 19.91N | 111 | 5.85E | 31 | 45N | 110 | 57E | 596200 | 24689 | 165 | 23 | 50 | 59 | 50 | 59 | ND | ND | ND | ND | 2.811 | |
| 71 | 5 | 18 | 10.024 | 2235 | 31 | 11.10N | 111 | 8.52E | 31 | 36N | 110 | 59E | 596106 | 24690 | 165 | 25 | 51 | 7 | 51 | 7 | ND | ND | ND | ND | 2.811 | |
| 72 | 5 | 18 | 12.260 | 2235 | 31 | 2.29N | 111 | 11.18E | 31 | 27N | 111 | 2E | 596014 | 24690 | 165 | 27 | 51 | 15 | 51 | 15 | ND | ND | ND | ND | 2.811 | |
| 73 | 5 | 18 | 14.490 | 2231 | 30 | 53.58N | 111 | 13.83E | 31 | 19N | 111 | 5E | 595925 | 24690 | 165 | 29 | 51 | 23 | 51 | 23 | ND | ND | ND | ND | 2.816 | |
| 74 | 5 | 18 | 16.721 | 2230 | 30 | 44.78N | 111 | 16.46E | 31 | 10N | 111 | 7E | 595833 | 24690 | 165 | 31 | 51 | 31 | 51 | 31 | ND | ND | ND | ND | 2.818 | |
| 75 | 5 | 18 | 18.954 | 2230 | 30 | 35.89N | 111 | 19.09E | 31 | 1N | 111 | 10E | 595754 | 24690 | 165 | 33 | 51 | 39 | 51 | 39 | ND | ND | ND | ND | 2.813 | |
| 76 | 5 | 18 | 21.185 | 2230 | 30 | 27.18N | 111 | 21.71E | 30 | 52N | 111 | 13E | 595672 | 24691 | 165 | 35 | 51 | 48 | 51 | 48 | ND | ND | ND | ND | 2.818 | |
| 77 | 5 | 18 | 23.409 | 2225 | 30 | 18.32N | 111 | 24.31E | 30 | 43N | 111 | 15E | 595594 | 24691 | 165 | 36 | 51 | 56 | 51 | 56 | ND | ND | ND | ND | 2.824 | |
| 78 | 5 | 18 | 25.636 | 2226 | 30 | 9.53N | 111 | 26.90E | 30 | 35N | 111 | 18E | 595518 | 24691 | 165 | 38 | 52 | 4 | 52 | 4 | ND | ND | ND | ND | 2.823 | |
| 79 | 5 | 18 | 27.864 | 2229 | 30 | 0.74N | 111 | 29.49E | 30 | 26N | 111 | 21E | 595444 | 24691 | 165 | 40 | 52 | 12 | 52 | 12 | ND | ND | ND | ND | 2.819 | |
| 80 | 5 | 18 | 30.090 | 2225 | 29 | 51.95N | 111 | 32.06E | 30 | 17N | 111 | 23E | 595372 | 24691 | 165 | 42 | 52 | 20 | 52 | 20 | ND | ND | ND | ND | 2.824 | |
| 81 | 5 | 18 | 32.314 | 2225 | 29 | 43.17N | 111 | 34.63E | 30 | 8N | 111 | 26E | 595303 | 24692 | 165 | 44 | 52 | 28 | 52 | 28 | ND | ND | ND | ND | 2.824 | |
| 82 | 5 | 18 | 34.539 | 2225 | 29 | 34.39N | 111 | 37.18E | 29 | 59N | 111 | 28E | 595237 | 24692 | 165 | 46 | 52 | 36 | 52 | 36 | ND | ND | ND | ND | 2.824 | |
| 83 | 5 | 18 | 36.770 | 2230 | 29 | 25.58N | 111 | 39.73E | 29 | 51N | 111 | 31E | 595173 | 24692 | 165 | 47 | 52 | 44 | 52 | 44 | ND | ND | ND | ND | 2.818 | |

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TOP SECRET

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FRAME EPHEMERIS MISSION 1817-2

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LIST DATE 18MAY65 PAGE 87

| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|-------------|------|-----------|-----------|--------|----------|-------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILS | LAT | LONG | LAT | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 1 | 6 37 18.650 | 0 | 70 5.46N | 53 23.97E | 70 26N | 706594 | 24430 | 132 1 | 9 58 | ND | ND | ND | 1.778 |
| 2 | 6 37 22.185 | 3534 | 69 55.94N | 53 54.58E | 70 17N | 705653 | 24432 | 132 32 | 10 12 | ND | ND | ND | 1.778 |
| 3 | 6 37 25.114 | 2930 | 69 47.97N | 54 19.68E | 70 9N | 704874 | 24434 | 132 57 | 10 23 | ND | ND | ND | 2.144 |
| 4 | 6 37 27.891 | 2776 | 69 40.37N | 54 43.01E | 70 1N | 704137 | 24435 | 133 20 | 10 34 | ND | ND | ND | 2.263 |
| 5 | 6 37 30.595 | 2704 | 69 32.91N | 55 5.53E | 69 54N | 703420 | 24437 | 133 42 | 10 45 | ND | ND | ND | 2.324 |
| 6 | 6 37 33.274 | 2680 | 69 25.46N | 55 27.59E | 69 47N | 702712 | 24439 | 134 4 | 10 55 | ND | ND | ND | 2.344 |
| 7 | 6 37 35.939 | 2665 | 69 18.01N | 55 49.27E | 69 39N | 702009 | 24440 | 134 26 | 11 5 | ND | ND | ND | 2.358 |
| 8 | 6 37 38.595 | 2655 | 69 10.54N | 56 10.62E | 69 32N | 701309 | 24442 | 134 47 | 11 16 | ND | ND | ND | 2.367 |
| 9 | 6 37 41.234 | 2640 | 69 3.07N | 56 31.60E | 69 25N | 700616 | 24444 | 135 8 | 11 26 | ND | ND | ND | 2.380 |
| 10 | 6 37 43.874 | 2640 | 68 55.55N | 56 52.33E | 69 17N | 699923 | 24445 | 135 29 | 11 36 | ND | ND | ND | 2.380 |
| 11 | 6 37 46.499 | 2625 | 68 48.02N | 57 12.71E | 69 10N | 699236 | 24447 | 135 49 | 11 46 | ND | ND | ND | 2.394 |
| 12 | 6 37 49.130 | 2630 | 68 40.44N | 57 32.90E | 69 2N | 698549 | 24448 | 136 9 | 11 57 | ND | ND | ND | 2.389 |
| 13 | 6 37 51.749 | 2620 | 68 32.85N | 57 52.77E | 68 55N | 697866 | 24450 | 136 28 | 12 7 | ND | ND | ND | 2.398 |
| 14 | 6 37 54.359 | 2610 | 68 25.24N | 58 12.34E | 68 47N | 697187 | 24452 | 136 48 | 12 17 | ND | ND | ND | 2.407 |
| 15 | 6 37 56.965 | 2605 | 68 17.61N | 58 31.65E | 68 40N | 696510 | 24453 | 137 7 | 12 27 | ND | ND | ND | 2.412 |
| 16 | 6 37 59.569 | 2605 | 68 9.94N | 58 50.73E | 68 32N | 695835 | 24455 | 137 26 | 12 37 | ND | ND | ND | 2.412 |
| 17 | 6 38 2.175 | 2605 | 68 2.22N | 59 9.61E | 68 25N | 695161 | 24456 | 137 45 | 12 47 | ND | ND | ND | 2.412 |
| 18 | 6 38 4.765 | 2590 | 67 54.52N | 59 28.16E | 68 17N | 694493 | 24458 | 138 3 | 12 57 | ND | ND | ND | 2.426 |
| 19 | 6 38 7.350 | 2585 | 67 46.79N | 59 46.46E | 68 9N | 693827 | 24459 | 138 21 | 13 7 | ND | ND | ND | 2.431 |
| 20 | 6 38 9.935 | 2585 | 67 39.02N | 60 4.56E | 68 2N | 693162 | 24461 | 138 39 | 13 17 | ND | ND | ND | 2.431 |
| 21 | 6 38 12.520 | 2585 | 67 31.22N | 60 22.45E | 67 54N | 692499 | 24462 | 138 57 | 13 27 | ND | ND | ND | 2.431 |
| 22 | 6 38 15.095 | 2575 | 67 23.41N | 60 40.07E | 67 46N | 691840 | 24464 | 139 14 | 13 37 | ND | ND | ND | 2.431 |
| 23 | 6 38 17.664 | 2570 | 67 15.59N | 60 57.46E | 67 38N | 691183 | 24465 | 139 32 | 13 47 | ND | ND | ND | 2.445 |
| 24 | 6 38 20.234 | 2570 | 67 7.73N | 61 14.66E | 67 31N | 690529 | 24467 | 139 49 | 13 57 | ND | ND | ND | 2.445 |
| 25 | 6 38 22.800 | 2565 | 66 59.85N | 61 31.64E | 67 23N | 689876 | 24468 | 140 6 | 14 7 | ND | ND | ND | 2.450 |
| 26 | 6 38 25.359 | 2560 | 66 51.95N | 61 48.39E | 67 15N | 689226 | 24470 | 140 22 | 14 17 | ND | ND | ND | 2.454 |
| 27 | 6 38 27.914 | 2555 | 66 44.04N | 62 4.92E | 67 7N | 688579 | 24471 | 140 38 | 14 27 | ND | ND | ND | 2.459 |
| 28 | 6 38 30.470 | 2555 | 66 36.10N | 62 21.28E | 66 59N | 687933 | 24473 | 140 55 | 14 37 | ND | ND | ND | 2.459 |
| 29 | 6 38 33.020 | 2550 | 66 28.14N | 62 37.42E | 66 51N | 687291 | 24474 | 141 11 | 14 47 | ND | ND | ND | 2.464 |
| 30 | 6 38 35.564 | 2545 | 66 20.16N | 62 53.36E | 66 44N | 686650 | 24476 | 141 26 | 14 57 | ND | ND | ND | 2.469 |
| 31 | 6 38 38.100 | 2535 | 66 12.19N | 63 9.06E | 66 36N | 686014 | 24477 | 141 42 | 15 7 | ND | ND | ND | 2.479 |
| 32 | 6 38 40.640 | 2540 | 66 4.18N | 63 24.62E | 66 28N | 685378 | 24479 | 141 57 | 15 17 | ND | ND | ND | 2.479 |
| 33 | 6 38 43.175 | 2535 | 65 56.15N | 63 39.98E | 66 20N | 684745 | 24480 | 142 13 | 15 27 | ND | ND | ND | 2.479 |
| 34 | 6 38 45.704 | 2530 | 65 48.11N | 63 55.14E | 66 12N | 684115 | 24482 | 142 28 | 15 36 | ND | ND | ND | 2.483 |
| 35 | 6 38 48.225 | 2520 | 65 40.07N | 64 10.09E | 66 4N | 683487 | 24483 | 142 42 | 15 46 | ND | ND | ND | 2.493 |
| 36 | 6 38 50.749 | 2525 | 65 31.99N | 64 24.90E | 65 56N | 682861 | 24486 | 142 57 | 15 56 | ND | ND | ND | 2.488 |
| 37 | 6 38 53.274 | 2525 | 65 23.88N | 64 39.56E | 65 48N | 682236 | 24488 | 143 11 | 16 6 | ND | ND | ND | 2.488 |
| 38 | 6 38 55.789 | 2515 | 65 15.78N | 64 54.00E | 65 40N | 681615 | 24488 | 143 26 | 16 16 | ND | ND | ND | 2.498 |
| 39 | 6 38 58.300 | 2510 | 65 7.67N | 65 8.26E | 65 32N | 680996 | 24489 | 143 40 | 16 25 | ND | ND | ND | 2.503 |
| 40 | 6 39 0.810 | 2510 | 64 59.54N | 65 22.37E | 65 23N | 680380 | 24490 | 143 54 | 16 35 | ND | ND | ND | 2.503 |
| 41 | 6 39 3.319 | 2510 | 64 51.38N | 65 36.34E | 65 15N | 679765 | 24492 | 144 7 | 16 45 | ND | ND | ND | 2.503 |
| 42 | 6 39 5.819 | 2500 | 64 43.23N | 65 50.10E | 65 7N | 679153 | 24493 | 144 21 | 16 54 | ND | ND | ND | 2.513 |
| 43 | 6 39 8.319 | 2500 | 64 35.06N | 66 3.72E | 64 59N | 678543 | 24495 | 144 34 | 17 4 | ND | ND | ND | 2.513 |
| 44 | 6 39 10.815 | 2496 | 64 26.87N | 66 17.18E | 64 51N | 677935 | 24496 | 144 48 | 17 14 | ND | ND | ND | 2.517 |
| 45 | 6 39 13.314 | 2499 | 64 18.66N | 66 30.51E | 64 43N | 677328 | 24498 | 145 1 | 17 24 | ND | ND | ND | 2.514 |

TOP SECRET

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TALENT-KEYHOLE
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SPECIAL HANDLING REQUIRED

MISSION 1017-2

ID 43

LIST DATE 10MAY65

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PASS 860 AFT 3MAR65

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|-------------|-------|-----------|-----------|---------|---------|----------|-------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILS | LAT | DEG MIN | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 46 | 6 39 15.805 | 2490 | 64 10.44N | 66 43.67E | 64 35N | 66 4E | 676725 | 24499 | 145 14 | 17 33 | ND | ND | ND | 2.523 |
| 47 | 6 39 18.289 | 2485 | 64 2.23N | 66 56.65E | 64 26N | 66 17E | 676125 | 24500 | 145 27 | 17 43 | ND | ND | ND | 2.528 |
| 48 | 6 39 20.774 | 2485 | 63 53.99N | 67 9.51E | 64 18N | 66 30E | 675526 | 24502 | 145 39 | 17 53 | ND | ND | ND | 2.528 |
| 49 | 6 39 23.255 | 2480 | 63 45.75N | 67 22.22E | 64 10N | 66 43E | 674930 | 24503 | 145 52 | 18 2 | ND | ND | ND | 2.534 |
| 50 | 6 39 25.734 | 2470 | 63 37.49N | 67 34.79E | 64 2N | 66 56E | 673745 | 24506 | 146 4 | 18 12 | ND | ND | ND | 2.544 |
| 51 | 6 39 28.204 | 2470 | 63 29.97N | 67 47.18E | 63 54N | 67 9E | 673155 | 24507 | 146 16 | 18 21 | ND | ND | ND | 2.544 |
| 52 | 6 39 30.675 | 2470 | 63 20.92N | 67 59.46E | 63 45N | 67 22E | 673155 | 24507 | 146 29 | 18 31 | ND | ND | ND | 2.544 |
| 53 | 6 39 33.145 | 2470 | 63 12.68N | 68 11.61E | 63 37N | 67 34E | 672568 | 24509 | 146 40 | 18 41 | ND | ND | ND | 2.544 |
| 54 | 6 41 13.845 | 00700 | 57 20.89N | 74 59.91E | 57 46N | 74 35E | 650015 | 24561 | 153 19 | 25 11 | ND | ND | ND | 0.062 |
| 55 | 6 41 17.024 | 3180 | 57 9.42N | 75 10.50E | 57 35N | 74 46E | 649351 | 24563 | 153 30 | 25 23 | ND | ND | ND | 1.976 |
| 56 | 6 41 19.680 | 2655 | 56 59.83N | 75 19.26E | 57 25N | 74 55E | 648799 | 24564 | 153 38 | 25 34 | ND | ND | ND | 2.367 |
| 57 | 6 41 22.200 | 2521 | 56 50.71N | 75 27.50E | 57 16N | 75 3E | 648277 | 24565 | 153 46 | 25 43 | ND | ND | ND | 2.492 |
| 58 | 6 41 24.636 | 2435 | 56 41.89N | 75 35.39E | 57 7N | 75 11E | 647774 | 24567 | 153 54 | 25 53 | ND | ND | ND | 2.580 |
| 59 | 6 41 27.040 | 2405 | 56 33.17N | 75 43.11E | 56 58N | 75 19E | 647279 | 24568 | 154 1 | 26 2 | ND | ND | ND | 2.613 |
| 60 | 6 41 29.431 | 2390 | 56 24.50N | 75 50.73E | 56 50N | 75 27E | 646789 | 24569 | 154 8 | 26 11 | ND | ND | ND | 2.629 |
| 61 | 6 41 31.806 | 2375 | 56 15.87N | 75 58.24E | 56 41N | 75 35E | 646305 | 24570 | 154 16 | 26 21 | ND | ND | ND | 2.646 |
| 62 | 6 41 34.164 | 2359 | 56 7.29N | 76 5.64E | 56 33N | 75 42E | 645825 | 24571 | 154 23 | 26 30 | ND | ND | ND | 2.663 |
| 63 | 6 41 36.524 | 2360 | 55 58.70N | 76 12.98E | 56 24N | 75 50E | 645347 | 24572 | 154 30 | 26 39 | ND | ND | ND | 2.662 |
| 64 | 6 41 38.885 | 2360 | 55 50.10N | 76 20.27E | 56 15N | 75 57E | 644870 | 24573 | 154 37 | 26 48 | ND | ND | ND | 2.662 |
| 65 | 6 41 41.244 | 2360 | 55 41.49N | 76 27.50E | 56 7N | 76 5E | 644395 | 24575 | 154 44 | 26 57 | ND | ND | ND | 2.662 |
| 66 | 6 41 43.595 | 2350 | 55 32.90N | 76 34.64E | 55 58N | 76 12E | 643924 | 24576 | 154 51 | 27 6 | ND | ND | ND | 2.674 |
| 67 | 6 41 45.939 | 2345 | 55 24.33N | 76 41.71E | 55 50N | 76 19E | 643456 | 24577 | 154 57 | 27 15 | ND | ND | ND | 2.679 |
| 68 | 6 41 48.289 | 2350 | 55 15.73N | 76 48.74E | 55 41N | 76 26E | 642989 | 24578 | 155 4 | 27 24 | ND | ND | ND | 2.674 |
| 69 | 6 41 50.630 | 2340 | 55 7.16N | 76 55.69E | 55 33N | 76 34E | 642525 | 24579 | 155 11 | 27 33 | ND | ND | ND | 2.685 |
| 70 | 6 41 52.975 | 2345 | 54 58.56N | 77 2.59E | 55 24N | 76 41E | 642063 | 24580 | 155 18 | 27 43 | ND | ND | ND | 2.679 |
| 71 | 6 41 55.310 | 2335 | 54 49.99N | 77 9.42E | 55 15N | 76 48E | 641603 | 24581 | 155 24 | 27 52 | ND | ND | ND | 2.691 |
| 72 | 6 41 57.649 | 2340 | 54 41.40N | 77 16.21E | 55 7N | 76 55E | 641145 | 24582 | 155 31 | 28 1 | ND | ND | ND | 2.685 |
| 73 | 6 41 59.979 | 2330 | 54 32.83N | 77 22.91E | 54 58N | 77 1E | 640691 | 24583 | 155 37 | 28 10 | ND | ND | ND | 2.697 |
| 74 | 6 42 2.314 | 2335 | 54 24.23N | 77 29.59E | 54 50N | 77 8E | 640238 | 24584 | 155 43 | 28 19 | ND | ND | ND | 2.691 |
| 75 | 6 42 4.640 | 2325 | 54 15.67N | 77 36.18E | 54 41N | 77 15E | 639788 | 24585 | 155 50 | 28 28 | ND | ND | ND | 2.702 |
| 76 | 6 42 6.970 | 2330 | 54 7.08N | 77 42.74E | 54 32N | 77 22E | 639339 | 24586 | 155 56 | 28 37 | ND | ND | ND | 2.697 |
| 77 | 6 42 9.294 | 2325 | 53 58.50N | 77 49.23E | 54 24N | 77 28E | 638892 | 24587 | 156 2 | 28 46 | ND | ND | ND | 2.702 |
| 78 | 6 42 11.614 | 2320 | 53 49.93N | 77 55.67E | 54 15N | 77 35E | 638449 | 24589 | 156 8 | 28 55 | ND | ND | ND | 2.708 |
| 79 | 6 42 13.935 | 2320 | 53 41.36N | 78 2.05E | 54 7N | 77 42E | 638008 | 24590 | 156 14 | 29 3 | ND | ND | ND | 2.708 |
| 80 | 6 42 16.250 | 2316 | 53 32.79N | 78 8.38E | 53 58N | 77 48E | 637568 | 24591 | 156 20 | 29 12 | ND | ND | ND | 2.713 |
| 81 | 6 42 18.569 | 2319 | 53 24.20N | 78 14.67E | 53 50N | 77 54E | 637131 | 24592 | 156 26 | 29 21 | ND | ND | ND | 2.709 |
| 82 | 6 42 20.885 | 2315 | 53 15.62N | 78 20.91E | 53 41N | 78 1E | 636695 | 24593 | 156 32 | 29 30 | ND | ND | ND | 2.714 |
| 83 | 6 42 23.194 | 2310 | 53 7.06N | 78 27.08E | 53 32N | 78 7E | 636263 | 24594 | 156 38 | 29 39 | ND | ND | ND | 2.720 |
| 84 | 6 42 25.505 | 2310 | 52 58.48N | 78 33.22E | 53 24N | 78 13E | 635833 | 24595 | 156 44 | 29 48 | ND | ND | ND | 2.720 |
| 85 | 6 42 27.814 | 2310 | 52 49.90N | 78 39.30E | 53 15N | 78 20E | 635405 | 24596 | 156 50 | 29 57 | ND | ND | ND | 2.720 |
| 86 | 6 42 30.119 | 2305 | 52 41.34N | 78 45.33E | 53 7N | 78 26E | 634979 | 24597 | 156 55 | 30 6 | ND | ND | ND | 2.726 |
| 87 | 6 42 32.425 | 2305 | 52 32.76N | 78 51.32E | 52 58N | 78 32E | 634554 | 24598 | 157 1 | 30 15 | ND | ND | ND | 2.726 |
| 88 | 6 42 34.729 | 2300 | 52 24.18N | 78 57.27E | 52 50N | 78 38E | 634132 | 24599 | 157 7 | 30 24 | ND | ND | ND | 2.732 |
| 89 | 6 42 37.029 | 2300 | 52 15.61N | 79 3.16E | 52 41N | 78 44E | 633712 | 24600 | 157 12 | 30 33 | ND | ND | ND | 2.732 |
| 90 | 6 42 39.324 | 2295 | 52 7.05N | 79 9.00E | 52 32N | 78 50E | 633296 | 24601 | 157 18 | 30 41 | ND | ND | ND | 2.738 |

TOP SECRET

HANDLE VIA

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TALENT-KEYHOLE
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TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84868-64

PASS 86D AFT 3MAR65 FRAME EPHEMERIS MISSION 1817-2 ID 43 LIST DATE 18MAY65 PAGE 89

| FRM | HR | MI | SEC | DTIM | DEG | MIN | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN |
|-----|----|----|--------|-------|-----------|-----------|--------|--------|--------|--------|--------|-------|-----|----|-----|----|-------|------|-----|-------|
| | | | | MILLS | LAT | LONG | LAT | LONG | LONG | MIN | | | MI | MI | MI | MI | MIN | MIN | MIN | RATE |
| 91 | 6 | 42 | 41.619 | 2295 | 51 58.49N | 79 14.79E | 52 24N | 78 56E | 632881 | 246002 | 157 23 | 30.50 | ND | ND | ND | ND | ND | ND | ND | 2.738 |
| 92 | 6 | 42 | 43.914 | 2295 | 51 49.92N | 79 20.55E | 52 15N | 79 2E | 632468 | 246003 | 157 29 | 30.59 | ND | ND | ND | ND | ND | ND | ND | 2.738 |
| 93 | 6 | 42 | 46.209 | 2295 | 51 41.34N | 79 26.27E | 52 7N | 79 8E | 632057 | 246004 | 157 34 | 31 8 | ND | ND | ND | ND | ND | ND | ND | 2.738 |
| 94 | 6 | 42 | 48.499 | 2290 | 51 32.78N | 79 31.93E | 51 58N | 79 14E | 631649 | 246005 | 157 39 | 31 17 | ND | ND | ND | ND | ND | ND | ND | 2.744 |
| 95 | 6 | 42 | 50.789 | 2290 | 51 24.21N | 79 37.56E | 51 50N | 79 19E | 631243 | 246006 | 157 45 | 31 26 | ND | ND | ND | ND | ND | ND | ND | 2.744 |
| 96 | 6 | 42 | 53.074 | 2285 | 51 15.65N | 79 43.14E | 51 41N | 79 25E | 630838 | 246006 | 157 50 | 31 34 | ND | ND | ND | ND | ND | ND | ND | 2.750 |
| 97 | 6 | 42 | 55.364 | 2294 | 51 7.07N | 79 48.69E | 51 32N | 79 31E | 630436 | 246007 | 157 55 | 31 43 | ND | ND | ND | ND | ND | ND | ND | 2.744 |
| 98 | 6 | 42 | 57.649 | 2285 | 50 58.50N | 79 54.19E | 51 24N | 79 36E | 630036 | 246008 | 158 0 | 31 52 | ND | ND | ND | ND | ND | ND | ND | 2.750 |
| 99 | 6 | 42 | 59.930 | 2280 | 50 49.95N | 79 59.65E | 51 15N | 79 42E | 629639 | 246009 | 158 5 | 32 1 | ND | ND | ND | ND | ND | ND | ND | 2.756 |
| 00 | 6 | 43 | 2.209 | 2280 | 50 41.39N | 80 5.06E | 51 7N | 79 47E | 629244 | 24610 | 158 11 | 32 10 | ND | ND | ND | ND | ND | ND | ND | 2.756 |
| 01 | 6 | 43 | 4.494 | 2285 | 50 32.80N | 80 10.45E | 50 58N | 79 53E | 628850 | 24611 | 158 16 | 32 18 | ND | ND | ND | ND | ND | ND | ND | 2.750 |
| 02 | 6 | 43 | 6.770 | 2275 | 50 24.25N | 80 15.79E | 50 50N | 79 58E | 628459 | 24612 | 158 21 | 32 27 | ND | ND | ND | ND | ND | ND | ND | 2.762 |
| 03 | 6 | 43 | 9.044 | 2275 | 50 15.69N | 80 21.08E | 50 41N | 79 4E | 628071 | 24613 | 158 26 | 32 36 | ND | ND | ND | ND | ND | ND | ND | 2.762 |
| 04 | 6 | 43 | 11.319 | 2275 | 50 7.13N | 80 26.35E | 50 33N | 80 9E | 627684 | 24614 | 158 30 | 32 45 | ND | ND | ND | ND | ND | ND | ND | 2.762 |
| 05 | 6 | 43 | 13.595 | 2275 | 49 58.56N | 80 31.58E | 50 24N | 80 14E | 627299 | 24615 | 158 35 | 32 53 | ND | ND | ND | ND | ND | ND | ND | 2.762 |
| 06 | 6 | 43 | 15.864 | 2270 | 49 50.00N | 80 36.76E | 50 15N | 80 20E | 626917 | 24616 | 158 40 | 33 2 | ND | ND | ND | ND | ND | ND | ND | 2.762 |
| 07 | 6 | 43 | 18.131 | 2266 | 49 42.48N | 80 41.93E | 50 7N | 80 25E | 626537 | 24617 | 158 45 | 33 11 | ND | ND | ND | ND | ND | ND | ND | 2.773 |
| 08 | 6 | 43 | 20.404 | 2274 | 49 34.88N | 80 47.03E | 49 58N | 80 30E | 626159 | 24618 | 158 50 | 33 20 | ND | ND | ND | ND | ND | ND | ND | 2.768 |
| 09 | 6 | 43 | 22.671 | 2266 | 49 24.32N | 80 52.10E | 49 50N | 80 35E | 625783 | 24618 | 158 54 | 33 28 | ND | ND | ND | ND | ND | ND | ND | 2.773 |
| 10 | 6 | 43 | 24.936 | 2285 | 49 15.76N | 80 57.14E | 49 41N | 80 41E | 625410 | 24619 | 158 59 | 33 37 | ND | ND | ND | ND | ND | ND | ND | 2.774 |
| 11 | 6 | 43 | 27.204 | 2269 | 49 7.19N | 81 2.16E | 49 33N | 80 46E | 625038 | 24620 | 159 4 | 33 46 | ND | ND | ND | ND | ND | ND | ND | 2.769 |
| 12 | 6 | 43 | 29.465 | 2260 | 48 58.63N | 81 7.12E | 49 24N | 80 51E | 624669 | 24621 | 159 8 | 33 54 | ND | ND | ND | ND | ND | ND | ND | 2.780 |
| 13 | 6 | 43 | 31.729 | 2265 | 48 50.06N | 81 12.07E | 49 15N | 80 56E | 624301 | 24622 | 159 13 | 34 3 | ND | ND | ND | ND | ND | ND | ND | 2.774 |
| 14 | 6 | 43 | 33.989 | 2260 | 48 41.51N | 81 16.97E | 49 7N | 81 1E | 623936 | 24623 | 159 18 | 34 12 | ND | ND | ND | ND | ND | ND | ND | 2.780 |
| 15 | 6 | 43 | 36.245 | 2256 | 48 32.96N | 81 21.84E | 48 58N | 81 6E | 623574 | 24624 | 159 22 | 34 20 | ND | ND | ND | ND | ND | ND | ND | 2.785 |
| 16 | 6 | 43 | 38.505 | 2259 | 48 24.39N | 81 26.68E | 48 50N | 81 11E | 623212 | 24624 | 159 26 | 34 29 | ND | ND | ND | ND | ND | ND | ND | 2.781 |
| 17 | 6 | 43 | 40.761 | 2256 | 48 15.84N | 81 31.48E | 48 41N | 81 16E | 622855 | 24625 | 159 31 | 34 38 | ND | ND | ND | ND | ND | ND | ND | 2.785 |
| 18 | 6 | 43 | 43.015 | 2254 | 48 7.28N | 81 36.25E | 48 33N | 81 20E | 622498 | 24626 | 159 35 | 34 46 | ND | ND | ND | ND | ND | ND | ND | 2.788 |
| 19 | 6 | 43 | 45.270 | 2255 | 47 58.72N | 81 40.99E | 48 24N | 81 25E | 622144 | 24627 | 159 40 | 34 55 | ND | ND | ND | ND | ND | ND | ND | 2.786 |
| 20 | 6 | 43 | 47.524 | 2255 | 47 50.16N | 81 45.71E | 48 16N | 81 30E | 621792 | 24628 | 159 44 | 35 4 | ND | ND | ND | ND | ND | ND | ND | 2.786 |
| 21 | 6 | 43 | 49.774 | 2250 | 47 41.60N | 81 50.38E | 48 7N | 81 35E | 621442 | 24629 | 159 48 | 35 12 | ND | ND | ND | ND | ND | ND | ND | 2.793 |
| 22 | 6 | 43 | 52.029 | 2255 | 47 33.03N | 81 55.04E | 47 58N | 81 40E | 621094 | 24630 | 159 53 | 35 21 | ND | ND | ND | ND | ND | ND | ND | 2.786 |
| 23 | 6 | 43 | 54.274 | 2245 | 47 24.49N | 81 59.65E | 47 50N | 81 44E | 620749 | 24630 | 159 57 | 35 29 | ND | ND | ND | ND | ND | ND | ND | 2.799 |
| 24 | 6 | 43 | 56.520 | 2245 | 47 15.94N | 82 4.23E | 47 41N | 81 49E | 620406 | 24631 | 160 1 | 35 38 | ND | ND | ND | ND | ND | ND | ND | 2.799 |
| 25 | 6 | 43 | 58.770 | 2250 | 47 7.37N | 82 8.79E | 47 33N | 81 54E | 620064 | 24632 | 160 5 | 35 47 | ND | ND | ND | ND | ND | ND | ND | 2.793 |
| 26 | 6 | 44 | 1.015 | 2245 | 46 58.81N | 82 13.32E | 47 24N | 81 58E | 619725 | 24633 | 160 9 | 35 55 | ND | ND | ND | ND | ND | ND | ND | 2.799 |
| 27 | 6 | 47 | 44.855 | 23841 | 32 29.88N | 88 3.45E | 32 55N | 87 54E | 596826 | 24688 | 165 7 | 49 56 | ND | ND | ND | ND | ND | ND | ND | 0.028 |
| 28 | 6 | 47 | 47.895 | 3039 | 32 17.92N | 88 7.19E | 32 43N | 87 58E | 596675 | 24688 | 165 10 | 50 7 | ND | ND | ND | ND | ND | ND | ND | 2.068 |
| 29 | 6 | 47 | 50.400 | 2506 | 32 8.05N | 88 10.26E | 32 33N | 88 1E | 596554 | 24688 | 165 14 | 50 17 | ND | ND | ND | ND | ND | ND | ND | 2.507 |
| 30 | 6 | 47 | 52.735 | 2335 | 31 58.86N | 88 13.11E | 32 24N | 88 4E | 596443 | 24689 | 165 12 | 50 25 | ND | ND | ND | ND | ND | ND | ND | 2.691 |
| 31 | 6 | 47 | 54.994 | 2259 | 31 49.97N | 88 15.85E | 32 15N | 88 7E | 596340 | 24689 | 165 16 | 50 33 | ND | ND | ND | ND | ND | ND | ND | 2.781 |
| 32 | 6 | 47 | 57.249 | 2255 | 31 41.09N | 88 18.58E | 32 6N | 88 9E | 596238 | 24689 | 165 18 | 50 42 | ND | ND | ND | ND | ND | ND | ND | 2.786 |
| 33 | 6 | 47 | 59.499 | 2250 | 31 32.22N | 88 21.29E | 31 57N | 88 12E | 596140 | 24689 | 165 20 | 50 50 | ND | ND | ND | ND | ND | ND | ND | 2.793 |
| 34 | 6 | 48 | 1.739 | 2240 | 31 23.40N | 88 23.99E | 31 48N | 88 15E | 596044 | 24690 | 165 22 | 50 58 | ND | ND | ND | ND | ND | ND | ND | 2.805 |
| 35 | 6 | 48 | 3.979 | 2240 | 31 14.57N | 88 26.67E | 31 40N | 88 17E | 595951 | 24690 | 165 24 | 51 6 | ND | ND | ND | ND | ND | ND | ND | 2.805 |

END SCRIPT

DAVID C WTA

| PASS | 860 | AFT | 3MAR65 | FRM | 2 | TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTIITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|------|-----|-----|--------|------|----|--------|------------|--------|-------|--------|--------|-----------|-------|---------|------|-------|------|-----|-------|
| | | | | HR | MI | SEC | MILLS | LAT | DEG | MIN | DEG | FEET | F/S | DEG | MI | DEG | MIN | DEG | RATE |
| 136 | 6 | 48 | 6.215 | 2235 | 31 | 5.76N | 88 29.93E | 31 | 31N | 88 | 20E | 595861 | 24690 | 165 | 26 | 51 | 14 | ND | 2.811 |
| 137 | 6 | 48 | 8.449 | 2235 | 30 | 56.95N | 88 31.99E | 31 | 22N | 88 | 23E | 595773 | 24690 | 165 | 28 | 51 | 22 | ND | 2.811 |
| 138 | 6 | 48 | 10.680 | 2230 | 30 | 48.16N | 88 34.63E | 31 | 13N | 88 | 25E | 595687 | 24690 | 165 | 30 | 51 | 30 | ND | 2.818 |
| 139 | 6 | 48 | 12.914 | 2235 | 30 | 39.35N | 88 37.26E | 31 | 4N | 88 | 28E | 595604 | 24691 | 165 | 32 | 51 | 38 | ND | 2.811 |
| 140 | 6 | 48 | 15.145 | 2230 | 30 | 30.55N | 88 39.88E | 30 | 56N | 88 | 31E | 595525 | 24691 | 165 | 34 | 51 | 46 | ND | 2.818 |
| 141 | 6 | 48 | 17.374 | 2230 | 30 | 21.76N | 88 42.549E | 30 | 47N | 88 | 33E | 595447 | 24691 | 165 | 36 | 51 | 55 | ND | 2.818 |
| 142 | 6 | 48 | 19.604 | 2230 | 30 | 12.96N | 88 45.89E | 30 | 38N | 88 | 36E | 595372 | 24691 | 165 | 37 | 52 | 3 | ND | 2.818 |
| 143 | 6 | 48 | 21.829 | 2225 | 30 | 4.18N | 88 47.68E | 30 | 29N | 88 | 39E | 595300 | 24691 | 165 | 39 | 52 | 11 | ND | 2.818 |
| 144 | 6 | 48 | 24.055 | 2225 | 29 | 55.39N | 88 50.26E | 30 | 20N | 88 | 41E | 595229 | 24692 | 165 | 41 | 52 | 19 | ND | 2.824 |
| 145 | 6 | 48 | 26.279 | 2225 | 29 | 46.61N | 88 52.83E | 30 | 12N | 88 | 44E | 595162 | 24692 | 165 | 43 | 52 | 27 | ND | 2.824 |
| 146 | 6 | 48 | 28.505 | 2225 | 29 | 37.83N | 88 55.39E | 30 | 3N | 88 | 46E | 595096 | 24692 | 165 | 45 | 52 | 35 | ND | 2.824 |
| 147 | 6 | 48 | 30.729 | 2225 | 29 | 29.04N | 88 57.93E | 29 | 54N | 88 | 49E | 595034 | 24692 | 165 | 47 | 52 | 43 | ND | 2.824 |
| 148 | 6 | 48 | 32.954 | 2225 | 29 | 20.26N | 89 0.48E | 29 | 45N | 88 | 52E | 594974 | 24692 | 165 | 48 | 52 | 51 | ND | 2.824 |
| 149 | 6 | 48 | 35.180 | 2225 | 29 | 11.46N | 89 3.01E | 29 | 37N | 88 | 54E | 594917 | 24692 | 165 | 50 | 52 | 59 | ND | 2.824 |
| 150 | 6 | 48 | 37.404 | 2225 | 29 | 2.68N | 89 5.53E | 29 | 28N | 88 | 57E | 594862 | 24693 | 165 | 52 | 53 | 7 | ND | 2.824 |
| 151 | 6 | 48 | 39.630 | 2225 | 28 | 53.88E | 89 8.05E | 29 | 19N | 88 | 59E | 594809 | 24693 | 165 | 54 | 53 | 15 | ND | 2.824 |
| 152 | 6 | 48 | 41.854 | 2225 | 28 | 45.09N | 89 10.55E | 29 | 10N | 89 | 2E | 594759 | 24693 | 165 | 55 | 53 | 23 | ND | 2.824 |
| 153 | 6 | 48 | 44.079 | 2225 | 28 | 36.30N | 89 13.05E | 29 | 1N | 89 | 4E | 594712 | 24693 | 165 | 57 | 53 | 30 | ND | 2.824 |
| 154 | 6 | 48 | 46.300 | 2220 | 28 | 27.52N | 89 15.53E | 28 | 53N | 89 | 7E | 594667 | 24693 | 165 | 59 | 53 | 38 | ND | 2.830 |
| 155 | 6 | 48 | 48.524 | 2225 | 28 | 18.73N | 89 18.01E | 28 | 44N | 89 | 9E | 594625 | 24693 | 166 | 1 | 53 | 46 | ND | 2.824 |
| 156 | 6 | 48 | 50.744 | 2220 | 28 | 9.95N | 89 20.48E | 28 | 35N | 89 | 12E | 594585 | 24693 | 166 | 2 | 53 | 54 | ND | 2.830 |
| 157 | 6 | 48 | 52.965 | 2220 | 28 | 1.17N | 89 22.94E | 28 | 26N | 89 | 14E | 594543 | 24693 | 166 | 4 | 54 | 2 | ND | 2.830 |
| 158 | 6 | 48 | 55.186 | 2221 | 27 | 52.38N | 89 25.39E | 28 | 17N | 89 | 17E | 594513 | 24693 | 166 | 6 | 54 | 10 | ND | 2.829 |
| 159 | 6 | 48 | 57.415 | 2230 | 27 | 43.56N | 89 27.84E | 28 | 9N | 89 | 19E | 594481 | 24694 | 166 | 7 | 54 | 18 | ND | 2.818 |
| 160 | 6 | 48 | 59.638 | 2222 | 27 | 34.77N | 89 30.28E | 28 | 0N | 89 | 22E | 594451 | 24694 | 166 | 9 | 54 | 26 | ND | 2.834 |
| 161 | 6 | 49 | 1.854 | 2217 | 27 | 26.00N | 89 32.70E | 27 | 51N | 89 | 24E | 594424 | 24694 | 166 | 11 | 54 | 34 | ND | 2.834 |
| 162 | 6 | 49 | 4.069 | 2215 | 27 | 17.23N | 89 35.12E | 27 | 42N | 89 | 27E | 594400 | 24694 | 166 | 12 | 54 | 42 | ND | 2.837 |
| 163 | 6 | 49 | 6.289 | 2220 | 27 | 8.45N | 89 37.53E | 27 | 34N | 89 | 29E | 594378 | 24694 | 166 | 14 | 54 | 49 | ND | 2.830 |
| 164 | 6 | 49 | 8.515 | 2220 | 26 | 59.64N | 89 39.94E | 27 | 25N | 89 | 31E | 594358 | 24694 | 166 | 15 | 54 | 57 | ND | 2.824 |
| 165 | 6 | 49 | 10.734 | 2220 | 26 | 50.85N | 89 42.33E | 27 | 16N | 89 | 34E | 594341 | 24694 | 166 | 17 | 55 | 5 | ND | 2.830 |
| 166 | 6 | 49 | 12.954 | 2220 | 26 | 42.06N | 89 44.72E | 27 | 7N | 89 | 36E | 594327 | 24694 | 166 | 19 | 55 | 13 | ND | 2.830 |
| 167 | 6 | 49 | 15.171 | 2216 | 26 | 33.28N | 89 47.10E | 26 | 58N | 89 | 39E | 594315 | 24694 | 166 | 20 | 55 | 21 | ND | 2.835 |
| 168 | 6 | 49 | 17.395 | 2224 | 26 | 24.47N | 89 49.47E | 26 | 50N | 89 | 41E | 594306 | 24694 | 166 | 22 | 55 | 29 | ND | 2.825 |
| 169 | 6 | 49 | 19.614 | 2220 | 26 | 15.68N | 89 51.84E | 26 | 41N | 89 | 43E | 594299 | 24694 | 166 | 23 | 55 | 36 | ND | 2.830 |
| 170 | 6 | 49 | 21.840 | 2225 | 26 | 6.86N | 89 54.20E | 26 | 32N | 89 | 46E | 594295 | 24694 | 166 | 25 | 55 | 44 | ND | 2.824 |
| 171 | 6 | 49 | 24.055 | 2215 | 25 | 58.08N | 89 56.55E | 26 | 23N | 89 | 48E | 594294 | 24694 | 166 | 26 | 55 | 52 | ND | 2.837 |
| 172 | 6 | 49 | 26.274 | 2220 | 25 | 49.29N | 89 58.89E | 26 | 14N | 89 | 51E | 594294 | 24694 | 166 | 28 | 56 | 7 | ND | 2.830 |
| 173 | 6 | 49 | 28.494 | 2220 | 25 | 40.49N | 90 1.23E | 26 | 6N | 89 | 53E | 594298 | 24694 | 166 | 29 | 56 | 7 | ND | 2.830 |
| 174 | 6 | 49 | 30.715 | 2220 | 25 | 31.69N | 90 3.56E | 25 | 57N | 89 | 55E | 594305 | 24694 | 166 | 31 | 56 | 15 | ND | 2.830 |
| 175 | 6 | 49 | 32.931 | 2216 | 25 | 22.90N | 90 5.88E | 25 | 48N | 89 | 58E | 594313 | 24694 | 166 | 32 | 56 | 23 | ND | 2.835 |
| 176 | 6 | 49 | 35.150 | 2220 | 25 | 14.10N | 90 8.19E | 25 | 39N | 90 | 0E | 594325 | 24694 | 166 | 34 | 56 | 30 | ND | 2.830 |
| 177 | 6 | 49 | 37.374 | 2224 | 25 | 5.29N | 90 10.50E | 25 | 30N | 90 | 2E | 594338 | 24694 | 166 | 35 | 56 | 38 | ND | 2.825 |
| 178 | 6 | 49 | 39.590 | 2215 | 24 | 56.50N | 90 12.80E | 25 | 22N | 90 | 5E | 594355 | 24694 | 166 | 37 | 56 | 46 | ND | 2.837 |
| 179 | 6 | 49 | 41.810 | 2220 | 24 | 47.69N | 90 15.10E | 25 | 13N | 90 | 7E | 594374 | 24694 | 166 | 38 | 56 | 54 | ND | 2.830 |
| 180 | 6 | 49 | 44.029 | 2220 | 24 | 38.09N | 90 17.39E | 25 | 4N | 90 | 9E | 594396 | 24694 | 166 | 40 | 57 | 1 | ND | 2.830 |

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| FRM | HR | MI | SEC | DTIM | MILS | DEG | LAT | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MI | DEG | MIN | PITCH | ROLL | YAW | SCAN | |
|--------|----|----|--------|------|------|--------|-----|--------|-----|-----|-----|-----|--------|-------|-----|------|-----|-----|----|-----|----|-----|-----|-------|------|-----|-------|--|
| 2 TIME | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 181 | 6 | 49 | 46.249 | 2220 | 24 | 30.08N | 90 | 19.67E | 24 | 55N | 90 | 12E | 594420 | 24694 | 166 | 41 | 57 | 9 | ND | ND | ND | ND | ND | ND | ND | ND | 2.830 | |
| 182 | 6 | 49 | 48.478 | 2220 | 24 | 21.27N | 90 | 21.94E | 24 | 46N | 90 | 14E | 594447 | 24694 | 166 | 42 | 57 | 17 | ND | ND | ND | ND | ND | ND | ND | ND | 2.830 | |
| 183 | 6 | 49 | 50.688 | 2218 | 24 | 12.47N | 90 | 24.21E | 24 | 38N | 90 | 16E | 594476 | 24694 | 166 | 44 | 57 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | 2.833 | |
| 184 | 6 | 49 | 52.909 | 2222 | 24 | 3.66N | 90 | 26.47E | 24 | 29N | 90 | 18E | 594508 | 24694 | 166 | 45 | 57 | 32 | ND | ND | ND | ND | ND | ND | ND | ND | 2.828 | |
| 185 | 6 | 49 | 55.124 | 2215 | 23 | 54.86N | 90 | 28.72E | 24 | 20N | 90 | 21E | 594542 | 24694 | 166 | 46 | 57 | 39 | ND | ND | ND | ND | ND | ND | ND | ND | 2.837 | |
| 186 | 6 | 49 | 57.345 | 2220 | 23 | 46.05N | 90 | 30.97E | 24 | 11N | 90 | 23E | 594580 | 24694 | 166 | 48 | 57 | 47 | ND | ND | ND | ND | ND | ND | ND | ND | 2.837 | |
| 187 | 6 | 49 | 59.568 | 2215 | 23 | 37.26N | 90 | 33.21E | 24 | 2N | 90 | 25E | 594620 | 24694 | 166 | 49 | 57 | 55 | ND | ND | ND | ND | ND | ND | ND | ND | 2.837 | |
| 188 | 6 | 50 | 1.779 | 2220 | 23 | 28.44N | 90 | 35.45E | 23 | 54N | 90 | 27E | 594661 | 24693 | 166 | 51 | 58 | 2 | ND | ND | ND | ND | ND | ND | ND | ND | 2.830 | |
| 189 | 6 | 50 | 3.999 | 2220 | 23 | 19.63N | 90 | 37.68E | 23 | 45N | 90 | 30E | 594707 | 24693 | 166 | 52 | 58 | 10 | ND | ND | ND | ND | ND | ND | ND | ND | 2.830 | |
| 190 | 6 | 50 | 6.220 | 2220 | 23 | 10.81N | 90 | 39.90E | 23 | 36N | 90 | 32E | 594754 | 24693 | 166 | 53 | 58 | 17 | ND | ND | ND | ND | ND | ND | ND | ND | 2.830 | |
| 191 | 6 | 50 | 8.435 | 2215 | 23 | 2.02N | 90 | 42.12E | 23 | 27N | 90 | 34E | 594805 | 24693 | 166 | 54 | 58 | 25 | ND | ND | ND | ND | ND | ND | ND | ND | 2.837 | |
| 192 | 6 | 50 | 10.649 | 2215 | 22 | 53.22N | 90 | 44.32E | 23 | 18N | 90 | 36E | 594857 | 24693 | 166 | 56 | 58 | 32 | ND | ND | ND | ND | ND | ND | ND | ND | 2.837 | |
| 193 | 6 | 50 | 12.870 | 2221 | 22 | 44.40N | 90 | 46.53E | 23 | 10N | 90 | 39E | 594913 | 24693 | 166 | 57 | 58 | 40 | ND | ND | ND | ND | ND | ND | ND | ND | 2.829 | |
| 194 | 6 | 50 | 15.095 | 2224 | 22 | 35.56N | 90 | 48.74E | 23 | 1N | 90 | 41E | 594971 | 24693 | 166 | 58 | 58 | 47 | ND | ND | ND | ND | ND | ND | ND | ND | 2.825 | |
| 195 | 6 | 50 | 17.310 | 2215 | 22 | 26.76N | 90 | 50.93E | 22 | 52N | 90 | 43E | 595032 | 24693 | 167 | 0 | 58 | 55 | ND | ND | ND | ND | ND | ND | ND | ND | 2.837 | |
| 196 | 6 | 50 | 19.529 | 2220 | 22 | 17.94N | 90 | 53.12E | 22 | 43N | 90 | 45E | 595094 | 24693 | 167 | 1 | 59 | 2 | ND | ND | ND | ND | ND | ND | ND | ND | 2.830 | |
| 197 | 6 | 50 | 21.745 | 2216 | 22 | 9.14N | 90 | 55.29E | 22 | 34N | 90 | 47E | 595161 | 24692 | 167 | 2 | 59 | 10 | ND | ND | ND | ND | ND | ND | ND | ND | 2.835 | |
| 198 | 6 | 50 | 23.965 | 2219 | 22 | 0.31N | 90 | 57.47E | 22 | 26N | 90 | 50E | 595229 | 24692 | 167 | 3 | 59 | 17 | ND | ND | ND | ND | ND | ND | ND | ND | 2.832 | |
| 199 | 6 | 50 | 26.185 | 2220 | 21 | 51.49N | 90 | 59.64E | 22 | 17N | 90 | 52E | 595300 | 24692 | 167 | 5 | 59 | 25 | ND | ND | ND | ND | ND | ND | ND | ND | 2.830 | |
| 200 | 6 | 50 | 28.399 | 2215 | 21 | 42.69N | 91 | 1.80E | 22 | 8N | 90 | 54E | 595374 | 24692 | 167 | 6 | 59 | 32 | ND | ND | ND | ND | ND | ND | ND | ND | 2.837 | |
| 201 | 6 | 50 | 30.619 | 2220 | 21 | 33.86N | 91 | 3.97E | 21 | 59N | 90 | 56E | 595450 | 24692 | 167 | 7 | 59 | 39 | ND | ND | ND | ND | ND | ND | ND | ND | 2.830 | |
| 202 | 6 | 50 | 32.840 | 2215 | 21 | 25.03N | 91 | 6.12E | 21 | 50N | 90 | 58E | 595529 | 24692 | 167 | 8 | 59 | 47 | ND | ND | ND | ND | ND | ND | ND | ND | 2.830 | |
| 203 | 6 | 50 | 35.055 | 2215 | 21 | 16.23N | 91 | 8.27E | 21 | 41N | 91 | 0E | 595611 | 24691 | 167 | 9 | 59 | 54 | ND | ND | ND | ND | ND | ND | ND | ND | 2.837 | |
| 204 | 6 | 50 | 37.274 | 2220 | 21 | 7.40N | 91 | 10.41E | 21 | 33N | 91 | 3E | 595695 | 24691 | 167 | 11 | 60 | 2 | ND | ND | ND | ND | ND | ND | ND | ND | 2.830 | |
| 205 | 6 | 50 | 39.494 | 2220 | 20 | 58.57N | 91 | 12.55E | 21 | 24N | 91 | 5E | 595781 | 24691 | 167 | 12 | 60 | 9 | ND | ND | ND | ND | ND | ND | ND | ND | 2.830 | |

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| FRM | Z TIME | HR MI SEC | DTIM | CAMERA | | | NADIR | | | FORMAT CENTER | | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | |
|-----|--------|-----------|--------|--------|-----|--------|-------|--------|------|---------------|-----|------|----------|-------|---------|------|-------|------|-----|------|-------|
| | | | | DEG | MIN | LAT | DEG | MIN | LONG | DEG | MIN | LONG | | | | | | | | | FEET |
| 1 | 8 | 6 | 54.894 | 0 | 71 | 3.92N | 27 | 16.07E | 71 | 23N | 26 | 0E | 711685 | 24418 | 128 | 35 | 8 | 28 | ND | ND | 1.752 |
| 2 | 8 | 6 | 54.479 | 3586 | 70 | 54.91N | 27 | 50.34E | 71 | 14N | 26 | 3E | 710717 | 24428 | 129 | 10 | 8 | 42 | ND | ND | 1.752 |
| 3 | 8 | 6 | 57.464 | 2984 | 70 | 47.33N | 28 | 18.47E | 71 | 7N | 27 | 5E | 709914 | 24422 | 129 | 37 | 8 | 54 | ND | ND | 2.106 |
| 4 | 8 | 7 | 0.283 | 2820 | 70 | 40.10N | 28 | 44.71E | 71 | 0N | 27 | 3E | 709157 | 24424 | 130 | 4 | 9 | 5 | ND | ND | 2.228 |
| 5 | 8 | 7 | 3.033 | 2750 | 70 | 32.98N | 29 | 9.99E | 70 | 53N | 27 | 5E | 708420 | 24425 | 130 | 29 | 9 | 16 | ND | ND | 2.285 |
| 6 | 8 | 7 | 5.759 | 2725 | 70 | 25.86N | 29 | 34.75E | 70 | 36N | 28 | 24E | 707696 | 24427 | 130 | 53 | 9 | 26 | ND | ND | 2.306 |
| 7 | 8 | 7 | 8.474 | 2715 | 70 | 18.72N | 29 | 59.12E | 70 | 39N | 28 | 49E | 706965 | 24429 | 131 | 18 | 9 | 37 | ND | ND | 2.314 |
| 8 | 8 | 7 | 11.174 | 2700 | 70 | 11.56N | 30 | 23.07E | 70 | 32N | 29 | 14E | 706245 | 24430 | 131 | 41 | 9 | 47 | ND | ND | 2.327 |
| 9 | 8 | 7 | 13.863 | 2690 | 70 | 4.36N | 30 | 46.65E | 70 | 25N | 29 | 30E | 705529 | 24432 | 132 | 5 | 9 | 58 | ND | ND | 2.336 |
| 10 | 8 | 7 | 16.549 | 2685 | 69 | 57.13N | 31 | 9.91E | 70 | 18N | 30 | 2E | 704015 | 24434 | 132 | 28 | 10 | 8 | ND | ND | 2.340 |
| 11 | 8 | 7 | 19.224 | 2675 | 69 | 49.87N | 31 | 32.82E | 70 | 11N | 30 | 20E | 704106 | 24435 | 132 | 51 | 10 | 18 | ND | ND | 2.349 |
| 12 | 8 | 7 | 21.894 | 2670 | 69 | 42.57N | 31 | 55.41E | 70 | 4N | 30 | 50E | 703400 | 24437 | 133 | 13 | 10 | 29 | ND | ND | 2.353 |
| 13 | 8 | 7 | 24.559 | 2665 | 69 | 35.23N | 32 | 17.69E | 69 | 56N | 31 | 13E | 702696 | 24439 | 133 | 35 | 10 | 39 | ND | ND | 2.358 |
| 14 | 8 | 7 | 27.219 | 2660 | 69 | 27.86N | 32 | 39.67E | 69 | 49N | 31 | 35E | 701994 | 24440 | 133 | 57 | 10 | 50 | ND | ND | 2.362 |
| 15 | 8 | 7 | 29.868 | 2650 | 69 | 20.47N | 33 | 1.31E | 69 | 42N | 31 | 58E | 701297 | 24442 | 134 | 19 | 11 | 0 | ND | ND | 2.371 |
| 16 | 8 | 7 | 32.519 | 2650 | 69 | 13.03N | 33 | 22.71E | 69 | 34N | 32 | 20E | 700601 | 24443 | 134 | 40 | 11 | 10 | ND | ND | 2.371 |
| 17 | 8 | 7 | 35.158 | 2640 | 69 | 5.57N | 33 | 43.77E | 69 | 27N | 32 | 42E | 699908 | 24445 | 135 | 1 | 11 | 20 | ND | ND | 2.380 |
| 18 | 8 | 7 | 37.799 | 2640 | 68 | 58.06N | 34 | 4.59E | 69 | 20N | 33 | 3E | 699218 | 24447 | 135 | 22 | 11 | 31 | ND | ND | 2.380 |
| 19 | 8 | 7 | 40.429 | 2630 | 68 | 50.54N | 34 | 25.09E | 69 | 12N | 33 | 25E | 698531 | 24448 | 135 | 42 | 11 | 41 | ND | ND | 2.389 |
| 20 | 8 | 7 | 43.059 | 2630 | 68 | 42.97N | 34 | 45.36E | 69 | 5N | 33 | 46E | 697845 | 24450 | 136 | 2 | 11 | 51 | ND | ND | 2.389 |
| 21 | 8 | 7 | 45.684 | 2620 | 68 | 35.38N | 35 | 5.35E | 68 | 57N | 34 | 6E | 697163 | 24451 | 136 | 22 | 12 | 1 | ND | ND | 2.394 |
| 22 | 8 | 7 | 48.304 | 2620 | 68 | 27.75N | 35 | 25.07E | 68 | 50N | 34 | 27E | 696483 | 24453 | 136 | 41 | 12 | 12 | ND | ND | 2.398 |
| 23 | 8 | 7 | 50.924 | 2620 | 68 | 20.09N | 35 | 44.57E | 68 | 42N | 34 | 47E | 695808 | 24455 | 137 | 1 | 12 | 22 | ND | ND | 2.398 |
| 24 | 8 | 8 | 31.898 | 40975 | 66 | 15.35N | 40 | 22.04E | 66 | 39N | 39 | 34E | 685377 | 24479 | 141 | 36 | 15 | 1 | ND | ND | 0.153 |
| 25 | 8 | 8 | 35.219 | 3320 | 66 | 4.88N | 40 | 42.44E | 66 | 28N | 39 | 56E | 684548 | 24481 | 141 | 56 | 15 | 14 | ND | ND | 1.893 |
| 26 | 8 | 8 | 38.033 | 2815 | 65 | 55.97N | 40 | 59.50E | 66 | 19N | 40 | 13E | 683848 | 24482 | 142 | 13 | 15 | 25 | ND | ND | 2.232 |
| 27 | 8 | 8 | 40.703 | 2670 | 65 | 47.48N | 41 | 15.50E | 66 | 11N | 40 | 30E | 683185 | 24484 | 142 | 29 | 15 | 35 | ND | ND | 2.353 |
| 28 | 8 | 8 | 43.313 | 2610 | 65 | 39.15N | 41 | 30.96E | 66 | 3N | 40 | 46E | 682538 | 24485 | 142 | 44 | 15 | 46 | ND | ND | 2.407 |
| 29 | 8 | 8 | 45.890 | 2576 | 65 | 30.91N | 41 | 46.06E | 65 | 55N | 41 | 1E | 681901 | 24487 | 142 | 59 | 15 | 56 | ND | ND | 2.439 |
| 30 | 8 | 8 | 48.448 | 2559 | 65 | 22.69N | 42 | 0.89E | 65 | 46N | 41 | 17E | 681270 | 24488 | 143 | 13 | 16 | 5 | ND | ND | 2.455 |
| 31 | 8 | 8 | 51.003 | 2555 | 65 | 14.46N | 42 | 15.54E | 65 | 38N | 41 | 32E | 680642 | 24490 | 143 | 28 | 16 | 15 | ND | ND | 2.459 |
| 32 | 8 | 8 | 53.549 | 2545 | 65 | 6.23N | 42 | 29.98E | 65 | 30N | 41 | 47E | 680018 | 24491 | 143 | 42 | 16 | 25 | ND | ND | 2.469 |
| 33 | 8 | 8 | 56.083 | 2535 | 64 | 58.01N | 42 | 44.20E | 65 | 22N | 42 | 1E | 679397 | 24493 | 143 | 56 | 16 | 35 | ND | ND | 2.479 |
| 34 | 8 | 8 | 58.613 | 2530 | 64 | 49.78N | 42 | 58.25E | 65 | 14N | 42 | 16E | 678779 | 24494 | 144 | 10 | 16 | 45 | ND | ND | 2.483 |
| 35 | 8 | 9 | 1.139 | 2525 | 64 | 41.54N | 43 | 12.13E | 65 | 6N | 42 | 30E | 678165 | 24495 | 144 | 24 | 16 | 55 | ND | ND | 2.488 |
| 36 | 8 | 9 | 3.663 | 2525 | 64 | 33.28N | 43 | 25.85E | 64 | 57N | 42 | 45E | 676941 | 24497 | 144 | 37 | 17 | 5 | ND | ND | 2.488 |
| 37 | 8 | 9 | 6.179 | 2515 | 64 | 25.03N | 43 | 39.39E | 64 | 49N | 42 | 59E | 676551 | 24498 | 144 | 51 | 17 | 14 | ND | ND | 2.498 |
| 38 | 8 | 9 | 8.688 | 2510 | 64 | 16.77N | 43 | 52.75E | 64 | 41N | 43 | 12E | 676334 | 24500 | 145 | 4 | 17 | 24 | ND | ND | 2.503 |
| 39 | 8 | 9 | 11.199 | 2511 | 64 | 8.49N | 44 | 5.98E | 64 | 33N | 43 | 26E | 675729 | 24501 | 145 | 17 | 17 | 34 | ND | ND | 2.502 |
| 40 | 8 | 9 | 13.708 | 2509 | 64 | 0.19N | 44 | 19.06E | 64 | 24N | 43 | 39E | 675125 | 24503 | 145 | 30 | 17 | 44 | ND | ND | 2.504 |
| 41 | 8 | 9 | 16.208 | 2500 | 63 | 51.89N | 44 | 31.97E | 64 | 16N | 43 | 53E | 674526 | 24504 | 145 | 42 | 17 | 53 | ND | ND | 2.513 |
| 42 | 8 | 9 | 18.704 | 2496 | 63 | 43.59N | 44 | 44.72E | 64 | 8N | 44 | 6E | 673929 | 24505 | 145 | 55 | 18 | 3 | ND | ND | 2.517 |
| 43 | 8 | 9 | 21.203 | 2499 | 63 | 35.26N | 44 | 57.36E | 64 | 0N | 44 | 19E | 673332 | 24507 | 146 | 7 | 18 | 13 | ND | ND | 2.514 |
| 44 | 8 | 9 | 23.693 | 2490 | 63 | 26.94N | 45 | 9.82E | 63 | 51N | 44 | 32E | 672740 | 24508 | 146 | 20 | 18 | 23 | ND | ND | 2.523 |
| 45 | 8 | 9 | 26.184 | 2490 | 63 | 18.60N | 45 | 22.16E | 63 | 43N | 44 | 45E | 672148 | 24509 | 146 | 32 | 18 | 32 | ND | ND | 2.523 |

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| PASS | 87D | AFT | 3MAR65 | CAMERA NADR | | FORMAT CENTER | | ALTIITUDE VELOC | | AZIMUTH SUN/ | | PITCH | | ROLL | | YAW | | SCAN RATE | | | | |
|------|-----|-----|--------|-------------|--------|---------------|-----|-----------------|------|--------------|-----|-------|--------|-------|-----|-----|-----|-----------|-----|-----|-------|-------|
| | | | | FRM | Z TIME | HR MI | SEC | DTIM | MILS | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | | DEG | MIN | DEG | MIN |
| 46 | 8 | 10 | 17.699 | 51516 | 60 | 21.91N | 49 | 11.92E | 60 | 47N | 48 | 41E | 660281 | 24537 | 150 | 17 | 21 | 52 | ND | ND | 0.122 | |
| 47 | 8 | 10 | 20.934 | 3234 | 60 | 10.58N | 49 | 24.88E | 60 | 36N | 48 | 55E | 659560 | 24539 | 150 | 30 | 30 | 22 | 5 | ND | ND | 1.943 |
| 48 | 8 | 10 | 23.639 | 2705 | 60 | 1.09N | 49 | 35.59E | 60 | 26N | 49 | 6E | 658959 | 24540 | 150 | 40 | 40 | 22 | 15 | ND | ND | 2.323 |
| 49 | 8 | 10 | 26.193 | 2555 | 59 | 52.11N | 49 | 45.61E | 60 | 17N | 49 | 16E | 658394 | 24542 | 150 | 50 | 50 | 22 | 25 | ND | ND | 2.459 |
| 50 | 8 | 10 | 28.679 | 2485 | 59 | 43.36N | 49 | 55.27E | 60 | 8N | 49 | 26E | 657846 | 24543 | 151 | 0 | 0 | 22 | 35 | ND | ND | 2.528 |
| 51 | 8 | 10 | 31.139 | 2460 | 59 | 34.69N | 50 | 4.75E | 60 | 0N | 49 | 36E | 657304 | 24544 | 151 | 9 | 9 | 22 | 45 | ND | ND | 2.574 |
| 52 | 8 | 10 | 33.579 | 2444 | 59 | 26.07N | 50 | 14.06E | 59 | 51N | 49 | 45E | 656770 | 24545 | 151 | 18 | 22 | 54 | 4 | ND | ND | 2.581 |
| 53 | 8 | 10 | 36.014 | 2434 | 59 | 17.46N | 50 | 23.26E | 59 | 43N | 49 | 55E | 656238 | 24547 | 151 | 27 | 23 | 3 | 4 | ND | ND | 2.581 |
| 54 | 8 | 10 | 38.434 | 2420 | 59 | 8.88N | 50 | 32.34E | 59 | 34N | 50 | 4E | 655711 | 24548 | 151 | 36 | 23 | 13 | 3 | ND | ND | 2.596 |
| 55 | 8 | 10 | 40.854 | 2420 | 59 | 0.30N | 50 | 41.33E | 59 | 25N | 50 | 13E | 655185 | 24549 | 151 | 44 | 23 | 22 | 2 | ND | ND | 2.596 |
| 56 | 8 | 10 | 43.269 | 2415 | 58 | 51.72N | 50 | 50.22E | 59 | 17N | 50 | 23E | 654662 | 24550 | 151 | 53 | 23 | 32 | 3 | ND | ND | 2.602 |
| 57 | 8 | 10 | 45.679 | 2410 | 58 | 43.15N | 50 | 59.02E | 59 | 8N | 50 | 32E | 654142 | 24552 | 152 | 2 | 23 | 41 | 4 | ND | ND | 2.607 |
| 58 | 8 | 10 | 48.078 | 2400 | 58 | 34.60N | 51 | 7.70E | 59 | 0N | 50 | 41E | 653627 | 24553 | 152 | 10 | 23 | 50 | 0 | ND | ND | 2.618 |
| 59 | 8 | 10 | 50.479 | 2400 | 58 | 26.04N | 51 | 16.31E | 58 | 58N | 50 | 49E | 653113 | 24554 | 152 | 18 | 24 | 0 | 0 | ND | ND | 2.618 |
| 60 | 8 | 10 | 52.878 | 2400 | 58 | 17.47N | 51 | 24.85E | 58 | 43N | 50 | 58E | 652600 | 24555 | 152 | 27 | 24 | 9 | 9 | ND | ND | 2.618 |
| 61 | 8 | 10 | 55.273 | 2395 | 58 | 8.90N | 51 | 33.30E | 58 | 34N | 51 | 7E | 652091 | 24556 | 152 | 35 | 24 | 18 | 18 | ND | ND | 2.623 |
| 62 | 8 | 10 | 57.663 | 2390 | 58 | 0.34N | 51 | 41.65E | 58 | 26N | 51 | 15E | 651584 | 24558 | 152 | 43 | 24 | 28 | 28 | ND | ND | 2.629 |
| 63 | 8 | 11 | 0.050 | 2386 | 57 | 51.78N | 51 | 49.93E | 58 | 17N | 51 | 24E | 651079 | 24559 | 152 | 51 | 24 | 37 | 37 | ND | ND | 2.633 |
| 64 | 8 | 11 | 2.438 | 2389 | 57 | 43.20N | 51 | 58.14E | 58 | 8N | 51 | 32E | 650576 | 24560 | 152 | 59 | 24 | 46 | 46 | ND | ND | 2.630 |
| 65 | 8 | 11 | 4.823 | 2385 | 57 | 34.63N | 52 | 6.27E | 58 | 0N | 51 | 41E | 650075 | 24561 | 153 | 7 | 24 | 55 | 5 | ND | ND | 2.634 |
| 66 | 8 | 11 | 7.198 | 2375 | 57 | 26.08N | 52 | 14.30E | 57 | 51N | 51 | 49E | 649578 | 24562 | 153 | 15 | 25 | 5 | 5 | ND | ND | 2.640 |
| 67 | 8 | 11 | 9.578 | 2380 | 57 | 17.51N | 52 | 22.28E | 57 | 43N | 51 | 57E | 649083 | 24563 | 153 | 22 | 25 | 14 | 14 | ND | ND | 2.640 |
| 68 | 8 | 11 | 11.953 | 2375 | 57 | 8.94N | 52 | 30.18E | 57 | 34N | 52 | 5E | 648589 | 24565 | 153 | 30 | 25 | 23 | 23 | ND | ND | 2.646 |
| 69 | 8 | 11 | 14.328 | 2375 | 57 | 0.36N | 52 | 38.01E | 57 | 26N | 52 | 13E | 648097 | 24566 | 153 | 38 | 25 | 32 | 32 | ND | ND | 2.646 |
| 70 | 8 | 11 | 16.698 | 2370 | 56 | 51.79N | 52 | 45.77E | 57 | 17N | 52 | 21E | 647609 | 24567 | 153 | 45 | 25 | 41 | 41 | ND | ND | 2.651 |
| 71 | 8 | 11 | 19.068 | 2370 | 56 | 43.20N | 52 | 53.45E | 57 | 8N | 52 | 29E | 647122 | 24568 | 153 | 52 | 25 | 51 | 51 | ND | ND | 2.651 |
| 72 | 8 | 11 | 21.434 | 2365 | 56 | 34.63N | 53 | 1.07E | 57 | 0N | 52 | 37E | 646637 | 24569 | 154 | 0 | 26 | 0 | 0 | ND | ND | 2.657 |
| 73 | 8 | 11 | 23.799 | 2365 | 56 | 26.05N | 53 | 8.62E | 56 | 51N | 52 | 45E | 646155 | 24570 | 154 | 7 | 26 | 9 | 9 | ND | ND | 2.657 |
| 74 | 8 | 11 | 26.158 | 2360 | 56 | 17.48N | 53 | 16.09E | 56 | 43N | 52 | 52E | 645675 | 24571 | 154 | 14 | 26 | 18 | 18 | ND | ND | 2.662 |
| 75 | 8 | 11 | 28.519 | 2360 | 56 | 8.89N | 53 | 23.50E | 56 | 34N | 53 | 0E | 645197 | 24572 | 154 | 21 | 26 | 27 | 27 | ND | ND | 2.662 |
| 76 | 8 | 11 | 30.873 | 2355 | 56 | 0.32N | 53 | 30.84E | 56 | 26N | 53 | 8E | 644722 | 24574 | 154 | 28 | 26 | 36 | 36 | ND | ND | 2.668 |
| 77 | 8 | 11 | 33.229 | 2355 | 55 | 51.74N | 53 | 38.12E | 56 | 17N | 53 | 15E | 644249 | 24575 | 154 | 35 | 26 | 45 | 45 | ND | ND | 2.668 |
| 78 | 8 | 11 | 35.578 | 2350 | 55 | 43.17N | 53 | 45.33E | 56 | 8N | 53 | 22E | 643778 | 24576 | 154 | 42 | 26 | 54 | 54 | ND | ND | 2.674 |
| 79 | 8 | 11 | 37.929 | 2350 | 55 | 34.59N | 53 | 52.49E | 56 | 0N | 53 | 30E | 643309 | 24577 | 154 | 49 | 27 | 4 | 4 | ND | ND | 2.674 |
| 80 | 8 | 11 | 40.274 | 2346 | 55 | 26.01N | 53 | 59.57E | 55 | 51N | 53 | 37E | 642843 | 24578 | 154 | 56 | 27 | 13 | 13 | ND | ND | 2.678 |
| 81 | 8 | 11 | 42.618 | 2344 | 55 | 17.44N | 54 | 6.59E | 55 | 43N | 53 | 44E | 642379 | 24579 | 155 | 3 | 27 | 22 | 22 | ND | ND | 2.681 |
| 82 | 8 | 11 | 44.964 | 2344 | 55 | 8.84N | 54 | 13.57E | 55 | 34N | 53 | 51E | 641916 | 24580 | 155 | 10 | 27 | 31 | 31 | ND | ND | 2.679 |
| 83 | 8 | 13 | 0.278 | 75315 | 50 | 29.07N | 57 | 32.04E | 50 | 54N | 57 | 15E | 628059 | 24613 | 158 | 18 | 32 | 22 | 22 | ND | ND | 0.083 |
| 84 | 8 | 13 | 3.408 | 3130 | 50 | 17.30N | 57 | 39.35E | 50 | 43N | 57 | 22E | 627527 | 24614 | 158 | 25 | 32 | 34 | 34 | ND | ND | 2.007 |
| 85 | 8 | 13 | 5.988 | 2580 | 50 | 7.59N | 57 | 45.32E | 50 | 33N | 57 | 28E | 627090 | 24615 | 158 | 30 | 32 | 44 | 44 | ND | ND | 2.435 |
| 86 | 8 | 13 | 8.409 | 2421 | 49 | 58.47N | 57 | 50.89E | 50 | 24N | 57 | 34E | 626683 | 24616 | 158 | 35 | 32 | 53 | 53 | ND | ND | 2.595 |
| 87 | 8 | 13 | 10.769 | 2359 | 49 | 49.57N | 57 | 56.28E | 50 | 15N | 57 | 39E | 626289 | 24617 | 158 | 40 | 33 | 2 | 2 | ND | ND | 2.663 |
| 88 | 8 | 13 | 13.099 | 2330 | 49 | 40.79N | 58 | 1.56E | 50 | 6N | 57 | 45E | 625902 | 24618 | 158 | 45 | 33 | 11 | 11 | ND | ND | 2.697 |
| 89 | 8 | 13 | 15.404 | 2306 | 49 | 32.08N | 58 | 6.75E | 49 | 57N | 57 | 50E | 625521 | 24619 | 158 | 50 | 33 | 20 | 20 | ND | ND | 2.725 |
| 90 | 8 | 13 | 17.704 | 2300 | 49 | 23.40N | 58 | 11.90E | 49 | 49N | 57 | 55E | 625142 | 24620 | 158 | 55 | 33 | 29 | 29 | ND | ND | 2.732 |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 87D AFT 3MAR65

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| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | F/S | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN |
|-----|----|----|--------|------|-----|--------|-----|--------|-----|-----|-----|------|----------|-------|-----|-----|-----|-----|-----|-------|------|-------|------|
| | | | | MILS | MIN | MIN | MIN | MIN | MIN | MIN | MIN | MIN | FEET | F/SEC | | MI | SEC | MI | SEC | DEG | DEG | DEG | RATE |
| 91 | 8 | 13 | 19.998 | 2294 | 49 | 14.73N | 58 | 17.00E | 49 | 48N | 58 | 0E | 624766 | 24621 | 159 | 0 | 33 | 38 | ND | ND | ND | 2.739 | |
| 92 | 8 | 13 | 22.283 | 2285 | 49 | 6.09N | 58 | 22.05E | 49 | 31N | 58 | 6E | 624394 | 24622 | 159 | 4 | 33 | 46 | ND | ND | ND | 2.756 | |
| 93 | 8 | 13 | 24.563 | 2280 | 48 | 57.47N | 58 | 27.06E | 49 | 23N | 58 | 11E | 624024 | 24622 | 159 | 9 | 33 | 55 | ND | ND | ND | 2.756 | |
| 94 | 8 | 13 | 26.844 | 2280 | 48 | 48.84N | 58 | 32.03E | 49 | 14N | 58 | 16E | 623657 | 24623 | 159 | 14 | 34 | 4 | ND | ND | ND | 2.756 | |
| 95 | 8 | 13 | 29.123 | 2280 | 48 | 40.20N | 58 | 36.98E | 49 | 6N | 58 | 21E | 623292 | 24624 | 159 | 18 | 34 | 13 | ND | ND | ND | 2.756 | |
| 96 | 8 | 13 | 31.395 | 2271 | 48 | 31.60N | 58 | 41.87E | 48 | 57N | 58 | 26E | 622930 | 24625 | 159 | 23 | 34 | 21 | ND | ND | ND | 2.767 | |
| 97 | 8 | 13 | 33.664 | 2270 | 48 | 22.99N | 58 | 46.73E | 48 | 48N | 58 | 31E | 622570 | 24626 | 159 | 27 | 34 | 30 | ND | ND | ND | 2.768 | |
| 98 | 8 | 13 | 35.934 | 2269 | 48 | 14.38N | 58 | 51.55E | 48 | 40N | 58 | 36E | 622212 | 24627 | 159 | 32 | 34 | 39 | ND | ND | ND | 2.769 | |
| 99 | 8 | 13 | 38.208 | 2275 | 48 | 5.75N | 58 | 56.36E | 48 | 31N | 58 | 41E | 621856 | 24628 | 159 | 36 | 34 | 48 | ND | ND | ND | 2.762 | |
| 100 | 8 | 13 | 40.474 | 2265 | 47 | 57.15N | 59 | 1.12E | 48 | 22N | 58 | 45E | 621502 | 24628 | 159 | 40 | 34 | 56 | ND | ND | ND | 2.774 | |
| 101 | 8 | 13 | 42.738 | 2265 | 47 | 48.54N | 59 | 5.85E | 48 | 14N | 58 | 50E | 621152 | 24629 | 159 | 45 | 35 | 5 | ND | ND | ND | 2.774 | |
| 102 | 8 | 13 | 44.993 | 2255 | 47 | 39.97N | 59 | 10.53E | 48 | 5N | 58 | 55E | 620804 | 24630 | 159 | 49 | 35 | 14 | ND | ND | ND | 2.786 | |
| 103 | 8 | 13 | 47.255 | 2261 | 47 | 31.37N | 59 | 15.20E | 47 | 57N | 59 | 0E | 620457 | 24631 | 159 | 53 | 35 | 22 | ND | ND | ND | 2.779 | |
| 104 | 8 | 13 | 49.519 | 2264 | 47 | 22.75N | 59 | 19.84E | 47 | 48N | 59 | 5E | 620113 | 24632 | 159 | 58 | 35 | 31 | ND | ND | ND | 2.775 | |
| 105 | 8 | 13 | 51.770 | 2251 | 47 | 14.18N | 59 | 24.43E | 47 | 40N | 59 | 9E | 619771 | 24632 | 160 | 2 | 35 | 40 | ND | ND | ND | 2.791 | |
| 106 | 8 | 13 | 54.028 | 2259 | 47 | 5.58N | 59 | 29.00E | 47 | 31N | 59 | 14E | 619432 | 24633 | 160 | 6 | 35 | 48 | ND | ND | ND | 2.781 | |

TOP SECRET

HANDLE VIA

| PASS | 88A | AFT | 3MAR65 | CAMERA NADIR | | | | FRAME EPHEMERIS | | | | MISSION | 1017-2 | ID | 43 | LIST DATE 10MAY65 | | | PAGE | 95 | | | | | |
|------|-----|-----|---------|--------------|-----|--------|------|-----------------|-----|-----|------|---------|--------|-------|-----|-------------------|-------|-----|------|-----|-----|-----|-----|-------|------|
| | | | | DTIM | DEG | MIN | LONG | DEG | MIN | DEG | LONG | | | | | ALTITUDE | VELOC | DEG | | | MI | DEG | MI | PITCH | ROLL |
| FRM | HR | MI | SEC | MILS | LAT | DEG | MIN | LONG | DEG | MIN | DEG | LONG | FEET | F/S | DEG | MI | DEG | MI | DEG | MIN | DEG | MIN | DEG | MIN | RATE |
| 1 | 9 | 21 | 18.4553 | 0 | 38 | 13.48N | 108 | 54.92W | 37 | 32N | 109 | 13W | 985171 | 23807 | 16 | 21 | -50 | 11 | ND | ND | ND | ND | ND | 1.305 | |
| 2 | 9 | 21 | 23.270 | 4816 | 38 | 31.61N | 108 | 48.15W | 37 | 51N | 109 | 6W | 983795 | 23810 | 16 | 27 | -49 | 54 | ND | ND | ND | ND | ND | 1.305 | |
| 3 | 9 | 21 | 27.479 | 4209 | 38 | 47.44N | 108 | 42.17W | 38 | 6N | 109 | 0W | 982593 | 23813 | 16 | 32 | -49 | 39 | ND | ND | ND | ND | ND | 1.493 | |
| 4 | 9 | 21 | 31.528 | 4050 | 39 | 2.67N | 108 | 36.37W | 38 | 22N | 108 | 55W | 981435 | 23815 | 16 | 37 | -49 | 24 | ND | ND | ND | ND | ND | 1.551 | |
| 5 | 9 | 21 | 35.529 | 4001 | 39 | 17.70N | 108 | 30.59W | 38 | 37N | 108 | 49W | 980289 | 23818 | 16 | 42 | -49 | 10 | ND | ND | ND | ND | ND | 1.570 | |
| 6 | 9 | 21 | 39.520 | 3990 | 39 | 32.70N | 108 | 24.78W | 38 | 52N | 108 | 43W | 979146 | 23820 | 16 | 47 | -48 | 56 | ND | ND | ND | ND | ND | 1.575 | |
| 7 | 9 | 21 | 43.509 | 3989 | 39 | 47.68N | 108 | 18.92W | 39 | 7N | 108 | 38W | 978001 | 23823 | 16 | 52 | -48 | 41 | ND | ND | ND | ND | ND | 1.575 | |
| 8 | 9 | 21 | 47.474 | 3965 | 40 | 2.56N | 108 | 13.05W | 39 | 22N | 108 | 32W | 976862 | 23825 | 16 | 57 | -48 | 27 | ND | ND | ND | ND | ND | 1.585 | |
| 9 | 9 | 21 | 51.429 | 3955 | 40 | 17.41N | 108 | 7.14W | 39 | 37N | 108 | 26W | 975725 | 23828 | 17 | 2 | -48 | 13 | ND | ND | ND | ND | ND | 1.589 | |
| 10 | 9 | 21 | 55.378 | 3945 | 40 | 32.22N | 108 | 1.18W | 39 | 52N | 108 | 20W | 974589 | 23830 | 17 | 7 | -47 | 59 | ND | ND | ND | ND | ND | 1.591 | |
| 11 | 9 | 21 | 59.323 | 3945 | 40 | 47.02N | 107 | 55.18W | 40 | 7N | 108 | 14W | 973452 | 23833 | 17 | 12 | -47 | 45 | ND | ND | ND | ND | ND | 1.593 | |
| 12 | 9 | 22 | 3.243 | 3920 | 41 | 1.71N | 107 | 49.17W | 40 | 21N | 108 | 8W | 972322 | 23835 | 17 | 17 | -47 | 31 | ND | ND | ND | ND | ND | 1.603 | |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

ICS 04000-04

PASS 930 AFT 3MAR65

FRAME EPHEMERIS MISSION 1017-2

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| FRM | Z TIME | HR | MI | SEC | DTIM | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | DEG | MI | DEG | SUN/ | PITCH | ROLL | YAW | SCAL |
|-----|--------|----|----|-----|------|-----|--------|-----|--------|-----|-----|-----|------|----------|-------|-----|----|-----|------|-------|------|-----|-------|
| | | | | | MILS | MIN | | MIN | MIN | MIN | | MIN | MIN | FEET | F/S | MI | MI | MI | MI | MIN | MIN | MIN | RAT. |
| 1 | 17 | 20 | 18 | 088 | 0 | 19 | 46.62N | 67 | 14.33W | 20 | 12N | 67 | 22W | 597017 | 24687 | 167 | 21 | 61 | 36 | ND | ND | ND | 2.204 |
| 2 | 17 | 20 | 20 | 939 | 8 | 19 | 35.28N | 67 | 11.64W | 20 | 11N | 67 | 19W | 597179 | 24687 | 167 | 22 | 61 | 46 | ND | ND | ND | 2.284 |
| 3 | 17 | 20 | 23 | 403 | 2464 | 19 | 25.47N | 67 | 9.33W | 19 | 51N | 67 | 17W | 597324 | 24686 | 167 | 24 | 61 | 54 | ND | ND | ND | 2.558 |
| 4 | 17 | 20 | 25 | 738 | 2335 | 19 | 16.18N | 67 | 7.14W | 19 | 42N | 67 | 15W | 597463 | 24686 | 167 | 25 | 62 | 2 | ND | ND | ND | 2.691 |
| 5 | 17 | 20 | 28 | 033 | 2295 | 19 | 7.04N | 67 | 4.99W | 19 | 32N | 67 | 13W | 597603 | 24686 | 167 | 26 | 62 | 10 | ND | ND | ND | 2.738 |
| 6 | 17 | 20 | 30 | 304 | 2270 | 18 | 58.00N | 67 | 2.87W | 19 | 23N | 67 | 10W | 597745 | 24685 | 167 | 27 | 62 | 17 | ND | ND | ND | 2.768 |
| 7 | 17 | 20 | 32 | 569 | 2266 | 18 | 48.98N | 67 | 0.77W | 19 | 14N | 67 | 8W | 597888 | 24685 | 167 | 28 | 62 | 25 | ND | ND | ND | 2.775 |
| 8 | 17 | 20 | 34 | 833 | 2264 | 18 | 39.97N | 66 | 58.66W | 19 | 5N | 67 | 6W | 598035 | 24685 | 167 | 29 | 62 | 32 | ND | ND | ND | 2.775 |
| 9 | 17 | 20 | 37 | 088 | 2255 | 18 | 30.99N | 66 | 56.58W | 18 | 56N | 67 | 4W | 598184 | 24684 | 167 | 30 | 62 | 40 | ND | ND | ND | 2.786 |
| 10 | 17 | 20 | 39 | 344 | 2255 | 18 | 22.01N | 66 | 54.49W | 18 | 47N | 67 | 2W | 598335 | 24684 | 167 | 31 | 62 | 47 | ND | ND | ND | 2.786 |
| 11 | 17 | 20 | 41 | 594 | 2250 | 18 | 13.05N | 66 | 52.42W | 18 | 38N | 67 | 0W | 598488 | 24684 | 167 | 32 | 62 | 55 | ND | ND | ND | 2.793 |
| 12 | 17 | 20 | 43 | 844 | 2250 | 18 | 4.09N | 66 | 50.35W | 18 | 29N | 66 | 58W | 598645 | 24683 | 167 | 33 | 63 | 2 | ND | ND | ND | 2.793 |
| 13 | 17 | 20 | 46 | 089 | 2246 | 17 | 55.15N | 66 | 48.28W | 18 | 21N | 66 | 56W | 598804 | 24683 | 167 | 34 | 63 | 9 | ND | ND | ND | 2.798 |
| 14 | 17 | 20 | 48 | 338 | 2249 | 17 | 46.19N | 66 | 46.22W | 18 | 12N | 66 | 54W | 598965 | 24683 | 167 | 35 | 63 | 17 | ND | ND | ND | 2.794 |
| 15 | 17 | 20 | 50 | 588 | 2250 | 17 | 37.23N | 66 | 44.17W | 18 | 3N | 66 | 52W | 599130 | 24682 | 167 | 36 | 63 | 24 | ND | ND | ND | 2.793 |
| 16 | 17 | 20 | 52 | 833 | 2245 | 17 | 28.29N | 66 | 42.12W | 17 | 54N | 66 | 50W | 599297 | 24682 | 167 | 37 | 63 | 31 | ND | ND | ND | 2.799 |
| 17 | 17 | 20 | 55 | 078 | 2245 | 17 | 19.34N | 66 | 40.07W | 17 | 45N | 66 | 48W | 599466 | 24682 | 167 | 38 | 63 | 38 | ND | ND | ND | 2.799 |
| 18 | 17 | 20 | 57 | 328 | 2250 | 17 | 10.38N | 66 | 38.03W | 17 | 36N | 66 | 45W | 599638 | 24681 | 167 | 39 | 63 | 46 | ND | ND | ND | 2.793 |
| 19 | 17 | 20 | 59 | 573 | 2245 | 17 | 1.43N | 66 | 35.99W | 17 | 27N | 66 | 43W | 599814 | 24681 | 167 | 40 | 63 | 53 | ND | ND | ND | 2.799 |
| 20 | 17 | 21 | 1 | 818 | 2245 | 16 | 52.49N | 66 | 33.96W | 17 | 18N | 66 | 41W | 599992 | 24680 | 167 | 41 | 64 | 0 | ND | ND | ND | 2.799 |
| 21 | 17 | 21 | 4 | 063 | 2245 | 16 | 43.54N | 66 | 31.94W | 17 | 9N | 66 | 39W | 600172 | 24680 | 167 | 42 | 64 | 7 | ND | ND | ND | 2.799 |
| 22 | 17 | 21 | 6 | 309 | 2245 | 16 | 34.60N | 66 | 29.91W | 17 | 0N | 66 | 37W | 600355 | 24680 | 167 | 43 | 64 | 15 | ND | ND | ND | 2.799 |
| 23 | 17 | 21 | 8 | 554 | 2245 | 16 | 25.65N | 66 | 27.89W | 16 | 51N | 66 | 35W | 600540 | 24679 | 167 | 43 | 64 | 22 | ND | ND | ND | 2.799 |

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

TCS 84868-64

| PASS | 950 AFT | 3MAR65 | CAMERA NADIR | | | FORMAT CENTER | | | MISSION | 1017-2 | ID 43 | LIST DATE | 10MAY65 | PAGE | 97 | | | | |
|------|---------|--------|--------------|------|-----|---------------|-----|--------|---------|--------|-------|-----------|---------|-------|-----|-----|-----|------|----------|
| | | | HR | MI | SEC | DEG | MIN | LONG | | | | | | | | DEG | MIN | LONG | ALTITUDE |
| 1 | 20 | 15 | 22.872 | 0 | 38 | 23.01N | 118 | 2.86W | 38 | 48N | 118 | 14W | 601748 | 24674 | 163 | 30 | 44 | 29 | 2.017 |
| 2 | 20 | 15 | 25.987 | 3115 | 38 | 10.87N | 117 | 58.31W | 38 | 36N | 118 | 9W | 601490 | 24675 | 163 | 34 | 44 | 40 | 2.017 |
| 3 | 20 | 15 | 28.518 | 2530 | 38 | 1.00N | 117 | 54.63W | 38 | 26N | 118 | 6W | 601284 | 24675 | 163 | 37 | 44 | 50 | 2.483 |
| 4 | 20 | 15 | 30.888 | 2370 | 37 | 51.75N | 117 | 51.21W | 38 | 17N | 118 | 2W | 601092 | 24676 | 163 | 40 | 44 | 59 | 2.651 |
| 5 | 20 | 15 | 33.197 | 2310 | 37 | 42.74N | 117 | 47.88W | 38 | 8N | 117 | 59W | 600910 | 24676 | 163 | 43 | 45 | 8 | 2.720 |
| 6 | 20 | 15 | 35.482 | 2285 | 37 | 33.82N | 117 | 44.61W | 37 | 59N | 117 | 55W | 600730 | 24676 | 163 | 45 | 45 | 17 | 2.750 |
| 7 | 20 | 15 | 37.752 | 2270 | 37 | 24.96N | 117 | 41.38W | 37 | 50N | 117 | 52W | 600555 | 24677 | 163 | 48 | 45 | 25 | 2.768 |
| 8 | 20 | 15 | 40.018 | 2260 | 37 | 16.11N | 117 | 38.16W | 37 | 41N | 117 | 49W | 600383 | 24677 | 163 | 51 | 45 | 34 | 2.774 |
| 9 | 20 | 15 | 42.277 | 2260 | 37 | 7.29N | 117 | 34.97W | 37 | 32N | 117 | 46W | 600213 | 24678 | 163 | 53 | 45 | 43 | 2.780 |
| 10 | 20 | 15 | 44.537 | 2260 | 36 | 58.46N | 117 | 31.79W | 37 | 24N | 117 | 42W | 600045 | 24678 | 163 | 56 | 45 | 51 | 2.780 |
| 11 | 20 | 15 | 46.792 | 2255 | 36 | 49.64N | 117 | 28.64W | 37 | 15N | 117 | 39W | 599881 | 24679 | 163 | 58 | 46 | 0 | 2.786 |
| 12 | 20 | 15 | 49.042 | 2250 | 36 | 40.85N | 117 | 25.50W | 37 | 6N | 117 | 36W | 599718 | 24679 | 164 | 1 | 46 | 8 | 2.793 |
| 13 | 20 | 15 | 51.292 | 2250 | 36 | 32.05N | 117 | 22.38W | 36 | 57N | 117 | 33W | 599559 | 24679 | 164 | 4 | 46 | 17 | 2.793 |
| 14 | 20 | 15 | 53.547 | 2255 | 36 | 23.23N | 117 | 19.27W | 36 | 48N | 117 | 30W | 599481 | 24680 | 164 | 6 | 46 | 25 | 2.786 |
| 15 | 20 | 15 | 55.797 | 2250 | 36 | 14.43N | 117 | 16.17W | 36 | 39N | 117 | 27W | 599246 | 24680 | 164 | 9 | 46 | 34 | 2.793 |
| 16 | 20 | 15 | 58.042 | 2245 | 36 | 5.64N | 117 | 13.10W | 36 | 31N | 117 | 23W | 599093 | 24680 | 164 | 11 | 46 | 43 | 2.799 |
| 17 | 20 | 16 | 0.287 | 2245 | 35 | 56.85N | 117 | 10.04W | 36 | 22N | 117 | 20W | 598944 | 24681 | 164 | 14 | 46 | 51 | 2.799 |
| 18 | 20 | 16 | 2.532 | 2245 | 35 | 48.06N | 117 | 6.99W | 36 | 13N | 117 | 17W | 598796 | 24681 | 164 | 16 | 47 | 0 | 2.799 |
| 19 | 20 | 16 | 4.782 | 2250 | 35 | 39.25N | 117 | 3.95W | 36 | 4N | 117 | 14W | 598651 | 24681 | 164 | 18 | 47 | 8 | 2.793 |
| 20 | 20 | 16 | 7.023 | 2241 | 35 | 30.47N | 117 | 0.94W | 35 | 56N | 117 | 11W | 598508 | 24682 | 164 | 21 | 47 | 17 | 2.804 |
| 21 | 20 | 16 | 9.269 | 2245 | 35 | 21.68N | 116 | 57.93W | 35 | 47N | 117 | 8W | 598369 | 24682 | 164 | 23 | 47 | 25 | 2.799 |
| 22 | 20 | 16 | 11.518 | 2249 | 35 | 12.86N | 116 | 54.93W | 35 | 38N | 117 | 5W | 598230 | 24682 | 164 | 26 | 47 | 34 | 2.794 |
| 23 | 20 | 16 | 13.763 | 2245 | 35 | 4.06N | 116 | 51.95W | 35 | 29N | 117 | 2W | 598095 | 24683 | 164 | 28 | 47 | 42 | 2.799 |
| 24 | 20 | 16 | 16.002 | 2240 | 34 | 55.29N | 116 | 48.99W | 35 | 20N | 116 | 59W | 597962 | 24683 | 164 | 30 | 47 | 51 | 2.805 |

TOP SECRET

HAND F VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 970 AFT 3MAR65 FRAME EPHEMERIS MISSION 1017-2 ID 43 LIST DATE 18MAY65 PAGE 98

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

| FRM | Z TIME | DTIM | CAMERA NADR | | FORMAT CENTER | | ALTITUDE VELOC | | AZIMUTH SUNV | | PITCH | ROLL | YAW | SCAN | | |
|-----------|----------|---------|-------------|--------|---------------|---------|----------------|---------|--------------|--------|--------|---------|---------|---------|------|-------|
| HR MI SEC | MILS | DEG MIN | DEG MIN | LONG | LAT | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE | |
| 1 23 | 7 36.075 | 0 | 66 | 4.39N | 173 | 58.45E | 66 | 28N 173 | 12E | 678164 | 24494 | 141 | 57 | 14 | 56 | 1.867 |
| 2 23 | 7 39.440 | 3365 | 65 | 53.71N | 174 | 18.83E | 66 | 17N 173 | 33E | 677362 | 24495 | 142 | 17 | 15 | 9 | 1.867 |
| 3 23 | 7 42.210 | 2770 | 65 | 44.90N | 174 | 35.37E | 66 | 8N 173 | 50E | 676703 | 24497 | 142 | 34 | 15 | 20 | 2.268 |
| 4 23 | 7 44.826 | 2616 | 65 | 36.53N | 174 | 50.83E | 66 | 0N 174 | 6E | 676084 | 24498 | 142 | 49 | 15 | 31 | 2.402 |
| 5 23 | 7 47.380 | 2554 | 65 | 28.35N | 175 | 5.75E | 65 | 52N 174 | 22E | 675480 | 24500 | 143 | 4 | 15 | 41 | 2.460 |
| 6 23 | 7 49.901 | 2521 | 65 | 20.23N | 175 | 20.32E | 65 | 44N 174 | 37E | 674885 | 24501 | 143 | 18 | 15 | 51 | 2.492 |
| 7 23 | 7 52.410 | 2509 | 65 | 12.14N | 175 | 34.66E | 65 | 36N 174 | 52E | 674276 | 24503 | 143 | 32 | 16 | 0 | 2.518 |
| 8 23 | 7 54.905 | 2495 | 65 | 4.06N | 175 | 48.78E | 65 | 28N 175 | 6E | 673710 | 24504 | 143 | 46 | 16 | 10 | 2.518 |
| 9 23 | 7 57.391 | 2485 | 64 | 55.99N | 176 | 2.70E | 65 | 20N 175 | 20E | 673129 | 24505 | 144 | 0 | 16 | 20 | 2.528 |
| 10 23 | 7 59.866 | 2476 | 64 | 47.93N | 176 | 16.42E | 65 | 12N 175 | 39E | 672551 | 24507 | 144 | 14 | 16 | 30 | 2.538 |
| 11 23 | 8 2.340 | 2474 | 64 | 39.85N | 176 | 29.98E | 65 | 4N 175 | 49E | 671975 | 24508 | 144 | 27 | 16 | 40 | 2.540 |
| 12 23 | 8 4.811 | 2470 | 64 | 31.73N | 176 | 43.39E | 64 | 56N 176 | 3E | 671401 | 24509 | 144 | 40 | 16 | 49 | 2.544 |
| 13 23 | 8 7.271 | 2460 | 64 | 23.67N | 176 | 56.61E | 64 | 48N 176 | 16E | 670832 | 24511 | 144 | 53 | 16 | 59 | 2.554 |
| 14 23 | 8 9.730 | 2460 | 64 | 15.57N | 177 | 9.69E | 64 | 39N 176 | 30E | 670264 | 24512 | 145 | 6 | 17 | 9 | 2.554 |
| 15 23 | 8 12.190 | 2460 | 64 | 7.45N | 177 | 22.64E | 64 | 31N 176 | 43E | 669696 | 24513 | 145 | 19 | 17 | 18 | 2.554 |
| 16 23 | 8 14.646 | 2455 | 63 | 59.32N | 177 | 35.43E | 64 | 23N 176 | 56E | 669133 | 24515 | 145 | 31 | 17 | 28 | 2.559 |
| 17 23 | 8 17.090 | 2445 | 63 | 51.21N | 177 | 48.04E | 64 | 15N 177 | 9E | 668573 | 24516 | 145 | 44 | 17 | 38 | 2.570 |
| 18 23 | 8 19.535 | 2445 | 63 | 43.07N | 178 | 0.53E | 64 | 7N 177 | 22E | 668014 | 24517 | 145 | 56 | 17 | 47 | 2.570 |
| 19 23 | 8 21.980 | 2445 | 63 | 34.91N | 178 | 12.89E | 63 | 59N 177 | 35E | 667456 | 24519 | 146 | 8 | 17 | 57 | 2.570 |
| 20 23 | 8 24.421 | 2441 | 63 | 26.75N | 178 | 25.11E | 63 | 51N 177 | 48E | 666902 | 24520 | 146 | 20 | 18 | 6 | 2.574 |
| 21 23 | 8 26.855 | 2434 | 63 | 18.59N | 178 | 37.17E | 63 | 43N 178 | 12E | 666350 | 24521 | 146 | 32 | 18 | 16 | 2.581 |
| 22 23 | 8 29.290 | 2435 | 63 | 10.41N | 178 | 49.12E | 63 | 35N 178 | 12E | 665800 | 24522 | 146 | 44 | 18 | 26 | 2.586 |
| 23 23 | 8 31.721 | 2430 | 63 | 2.22N | 179 | 0.93E | 63 | 26N 178 | 24E | 665252 | 24523 | 146 | 56 | 18 | 35 | 2.586 |
| 24 23 | 8 34.146 | 2425 | 62 | 54.03N | 179 | 12.60E | 63 | 18N 178 | 37E | 664707 | 24525 | 147 | 7 | 18 | 45 | 2.591 |
| 25 23 | 8 36.570 | 2425 | 62 | 45.83N | 179 | 24.16E | 63 | 10N 178 | 48E | 664163 | 24526 | 147 | 18 | 18 | 54 | 2.591 |
| 26 23 | 8 38.991 | 2421 | 62 | 37.62N | 179 | 35.59E | 63 | 2N 179 | 0E | 663622 | 24527 | 147 | 30 | 19 | 4 | 2.595 |
| 27 23 | 8 41.415 | 2424 | 62 | 29.39N | 179 | 46.92E | 62 | 54N 179 | 12E | 663082 | 24529 | 147 | 41 | 19 | 13 | 2.592 |
| 28 23 | 8 43.830 | 2415 | 62 | 21.16N | 179 | 58.10E | 62 | 46N 179 | 23E | 662545 | 24530 | 147 | 52 | 19 | 23 | 2.602 |
| 29 23 | 8 46.240 | 2410 | 62 | 12.94N | 179 | 50.85W | 62 | 37N 179 | 35E | 662011 | 24531 | 148 | 3 | 19 | 32 | 2.607 |
| 30 23 | 8 48.650 | 2410 | 62 | 4.70N | 179 | 39.90W | 62 | 29N 179 | 46E | 661479 | 24532 | 148 | 13 | 19 | 42 | 2.607 |
| 31 23 | 8 51.056 | 2405 | 61 | 56.46N | 179 | 29.08W | 62 | 21N 179 | 57E | 660949 | 24534 | 148 | 24 | 19 | 51 | 2.613 |

TOP SECRET

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PASS 98D AFT 4MAR65 FRAME EPHEMERIS MISSION 1017-2 ID 43 LIST DATE 10MAY65 PAGE 99

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

| FRM | HR | MI | SEC | DTIM | MILS | DEG | LAT | DEG | MIN | DEG | LAT | DEG | MIN | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN | | |
|-----|----|----|--------|------|------|--------|-----|--------|-----|-----|-----|-----|--------|-------|-----|-----|-----|------|-----|-----|----|-----|----|-----|----|-------|------|-----|------|-------|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 0 | 38 | 40.399 | 0 | 62 | 10.22N | 157 | 32.65E | 62 | 35N | 156 | 58E | 661051 | 24533 | 148 | 6 | 19 | 57 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.939 | |
| 2 | 0 | 38 | 43.640 | 0 | 61 | 59.13N | 157 | 47.30E | 62 | 24N | 157 | 14E | 660339 | 24535 | 148 | 21 | 20 | 10 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.939 | |
| 3 | 0 | 38 | 46.339 | 2700 | 61 | 49.87N | 157 | 59.36E | 62 | 14N | 157 | 26E | 659749 | 24536 | 148 | 33 | 20 | 20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.327 | |
| 4 | 0 | 38 | 48.884 | 2545 | 61 | 41.12N | 158 | 10.61E | 62 | 6N | 157 | 38E | 659195 | 24538 | 148 | 44 | 20 | 30 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.469 | |
| 5 | 0 | 38 | 51.363 | 2480 | 61 | 32.58N | 158 | 21.47E | 61 | 57N | 157 | 49E | 658656 | 24539 | 148 | 54 | 20 | 40 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.534 | |
| 6 | 0 | 38 | 53.818 | 2455 | 61 | 24.10N | 158 | 32.12E | 61 | 49N | 158 | 0E | 658125 | 24540 | 149 | 5 | 20 | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.559 | |
| 7 | 0 | 38 | 56.679 | 2425 | 61 | 15.68N | 158 | 42.59E | 61 | 40N | 158 | 11E | 657598 | 24541 | 149 | 15 | 20 | 59 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.580 | |
| 8 | 0 | 38 | 58.679 | 2425 | 61 | 7.28N | 158 | 52.91E | 61 | 32N | 158 | 21E | 657077 | 24543 | 149 | 25 | 21 | 9 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.591 | |
| 9 | 0 | 39 | 1.094 | 2415 | 60 | 58.90N | 159 | 3.09E | 61 | 24N | 158 | 32E | 656558 | 24544 | 149 | 35 | 21 | 19 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.602 | |
| 10 | 0 | 39 | 3.504 | 2410 | 60 | 50.52N | 159 | 13.16E | 61 | 15N | 158 | 42E | 656043 | 24545 | 149 | 45 | 21 | 28 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.607 | |
| 11 | 0 | 39 | 5.908 | 2405 | 60 | 42.14N | 159 | 23.12E | 61 | 7N | 158 | 52E | 655530 | 24546 | 149 | 55 | 21 | 37 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.613 | |
| 12 | 0 | 39 | 8.305 | 2396 | 60 | 33.78N | 159 | 32.95E | 60 | 58N | 159 | 12E | 655021 | 24549 | 150 | 14 | 21 | 47 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.622 | |
| 13 | 0 | 39 | 10.704 | 2400 | 60 | 25.40N | 159 | 42.70E | 60 | 42N | 159 | 22E | 654807 | 24550 | 150 | 23 | 22 | 6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.628 | |
| 14 | 0 | 39 | 13.099 | 2394 | 60 | 17.01N | 159 | 52.35E | 60 | 50N | 159 | 12E | 654007 | 24551 | 150 | 32 | 22 | 15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.629 | |
| 15 | 0 | 39 | 15.488 | 2390 | 60 | 8.64N | 160 | 1.09E | 60 | 33N | 159 | 32E | 653504 | 24551 | 150 | 32 | 22 | 15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.633 | |
| 16 | 0 | 39 | 17.874 | 2386 | 60 | 0.26N | 160 | 11.33E | 60 | 25N | 159 | 42E | 653003 | 24552 | 150 | 42 | 22 | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.636 | |
| 17 | 0 | 39 | 20.259 | 2384 | 59 | 51.87N | 160 | 20.68E | 60 | 17N | 159 | 52E | 652504 | 24553 | 150 | 51 | 22 | 34 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.639 | |
| 18 | 0 | 39 | 22.644 | 2381 | 59 | 43.48N | 160 | 29.94E | 60 | 8N | 160 | 1E | 652008 | 24554 | 151 | 0 | 22 | 43 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.640 | |
| 19 | 0 | 39 | 25.020 | 2380 | 59 | 35.09N | 160 | 39.11E | 60 | 0N | 160 | 10E | 651514 | 24556 | 151 | 9 | 22 | 53 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.641 | |
| 20 | 0 | 39 | 27.398 | 2379 | 59 | 26.68N | 160 | 48.19E | 59 | 52N | 160 | 20E | 651021 | 24557 | 151 | 18 | 23 | 2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.651 | |
| 21 | 0 | 39 | 29.769 | 2370 | 59 | 18.29N | 160 | 57.16E | 59 | 43N | 160 | 29E | 650532 | 24558 | 151 | 26 | 23 | 11 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.651 | |
| 22 | 0 | 39 | 32.139 | 2370 | 59 | 9.90N | 161 | 6.06E | 59 | 35N | 160 | 38E | 650044 | 24559 | 151 | 35 | 23 | 21 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.651 | |
| 23 | 0 | 39 | 34.509 | 2370 | 59 | 1.49N | 161 | 14.88E | 59 | 26N | 160 | 47E | 649559 | 24560 | 151 | 44 | 23 | 30 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.651 | |
| 24 | 0 | 39 | 36.868 | 2360 | 58 | 53.10N | 161 | 23.58E | 59 | 18N | 160 | 56E | 649077 | 24561 | 151 | 52 | 23 | 39 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.652 | |
| 25 | 0 | 39 | 39.233 | 2365 | 58 | 44.68N | 161 | 32.23E | 59 | 10N | 161 | 5E | 648595 | 24562 | 152 | 0 | 23 | 49 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.657 | |
| 26 | 0 | 39 | 41.594 | 2360 | 58 | 36.27N | 161 | 40.79E | 59 | 1N | 161 | 14E | 648116 | 24564 | 152 | 9 | 23 | 58 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.662 | |
| 27 | 0 | 39 | 43.953 | 2360 | 58 | 27.85N | 161 | 49.27E | 58 | 53N | 161 | 23E | 647639 | 24565 | 152 | 17 | 24 | 7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.662 | |
| 28 | 0 | 39 | 46.309 | 2355 | 58 | 19.44N | 161 | 57.67E | 58 | 44N | 161 | 31E | 647165 | 24566 | 152 | 25 | 24 | 16 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.668 | |
| 29 | 0 | 39 | 48.658 | 2350 | 58 | 11.83N | 162 | 5.97E | 58 | 36N | 161 | 40E | 646693 | 24567 | 152 | 33 | 24 | 26 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.674 | |
| 30 | 0 | 39 | 51.009 | 2350 | 58 | 2.61N | 162 | 14.21E | 58 | 28N | 161 | 48E | 646223 | 24568 | 152 | 41 | 24 | 35 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.674 | |
| 31 | 0 | 39 | 53.359 | 2351 | 57 | 54.18N | 162 | 22.38E | 58 | 19N | 161 | 57E | 645754 | 24569 | 152 | 49 | 24 | 44 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.673 | |
| 32 | 0 | 39 | 55.709 | 2349 | 57 | 45.74N | 162 | 30.48E | 58 | 11N | 162 | 5E | 645287 | 24570 | 152 | 57 | 24 | 53 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.675 | |
| 33 | 0 | 39 | 58.054 | 2345 | 57 | 37.31N | 162 | 38.50E | 58 | 2N | 162 | 13E | 644824 | 24571 | 153 | 5 | 25 | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.679 | |
| 34 | 0 | 40 | 0.394 | 2340 | 57 | 28.89N | 162 | 46.43E | 57 | 54N | 162 | 21E | 644362 | 24572 | 153 | 12 | 25 | 12 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.685 | |
| 35 | 0 | 40 | 2.733 | 2340 | 57 | 20.46N | 162 | 54.30E | 57 | 45N | 162 | 29E | 643903 | 24573 | 153 | 20 | 25 | 21 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.685 | |
| 36 | 0 | 40 | 5.073 | 2340 | 57 | 12.02N | 163 | 2.11E | 57 | 37N | 162 | 37E | 643445 | 24575 | 153 | 28 | 25 | 30 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.685 | |
| 37 | 0 | 40 | 7.408 | 2335 | 57 | 3.58N | 163 | 9.83E | 57 | 29N | 162 | 45E | 642990 | 24576 | 153 | 35 | 25 | 39 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.691 | |
| 38 | 0 | 40 | 9.738 | 2330 | 56 | 55.15N | 163 | 17.48E | 57 | 20N | 162 | 53E | 642537 | 24577 | 153 | 42 | 25 | 48 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.697 | |

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FRAME: EPHEMERIS MISSION 1017-2

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| FRM | Z TIME | DTIM | CAMERA | FORMAT | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | |
|-------|--------|----------|-----------|------------|----------|---------|---------|--------|-------|------|-----|-------|-------|
| HR MI | SEC | MILS | LAT | MIN | DEG | MIN | DEG | MI | DEG | MIN | DEG | RATE | |
| 1 | 2 | 7 11.772 | 66 38.54N | 127 30.32E | 67 | 1N 126 | 42E | 679094 | 24491 | 140 | 50 | 14 33 | 1.864 |
| 2 | 2 | 7 15.143 | 66 28.01N | 127 51.70E | 66 | 51N 127 | 4E | 678289 | 24493 | 141 | 12 | 14 46 | 1.864 |
| 3 | 2 | 7 17.947 | 66 19.22N | 128 9.26E | 66 | 42N 127 | 22E | 677622 | 24494 | 141 | 29 | 14 57 | 2.240 |
| 4 | 2 | 7 20.598 | 66 10.87N | 128 25.65E | 66 | 34N 127 | 39E | 676993 | 24496 | 141 | 45 | 15 8 | 2.371 |
| 5 | 2 | 7 23.183 | 66 2.70N | 128 41.47E | 66 | 26N 127 | 55E | 676381 | 24497 | 142 | 1 | 15 18 | 2.431 |
| 6 | 2 | 7 25.738 | 65 54.59N | 128 56.93E | 66 | 18N 128 | 11E | 675778 | 24499 | 142 | 16 | 15 28 | 2.470 |
| 7 | 2 | 7 28.282 | 65 46.49N | 129 12.16E | 66 | 10N 128 | 27E | 675179 | 24500 | 142 | 31 | 15 38 | 2.478 |
| 8 | 2 | 7 30.808 | 65 38.43N | 129 27.11E | 66 | 2N 128 | 42E | 674585 | 24502 | 142 | 46 | 15 48 | 2.488 |
| 9 | 2 | 7 33.332 | 65 30.34N | 129 41.89E | 65 | 54N 128 | 58E | 673993 | 24503 | 143 | 1 | 15 58 | 2.488 |
| 10 | 2 | 7 35.848 | 65 22.25N | 129 56.47E | 65 | 46N 129 | 13E | 673405 | 24504 | 143 | 15 | 16 8 | 2.498 |
| 11 | 2 | 7 38.357 | 65 14.15N | 130 10.86E | 65 | 38N 129 | 28E | 672820 | 24506 | 143 | 29 | 16 18 | 2.503 |
| 12 | 2 | 7 40.862 | 65 6.05N | 130 25.07E | 65 | 30N 129 | 42E | 672237 | 24507 | 143 | 43 | 16 28 | 2.508 |
| 13 | 2 | 7 43.362 | 64 57.93N | 130 39.10E | 65 | 22N 129 | 57E | 671657 | 24508 | 143 | 57 | 16 37 | 2.513 |
| 14 | 2 | 7 45.857 | 64 49.81N | 130 52.96E | 65 | 13N 130 | 11E | 671080 | 24510 | 144 | 11 | 16 47 | 2.518 |
| 15 | 2 | 7 48.353 | 64 41.67N | 131 6.68E | 65 | 5N 130 | 25E | 670504 | 24511 | 144 | 24 | 16 57 | 2.518 |
| 16 | 2 | 7 50.838 | 64 33.53N | 131 20.20E | 64 | 57N 130 | 39E | 669932 | 24512 | 144 | 38 | 17 7 | 2.528 |
| 17 | 2 | 7 53.322 | 64 25.37N | 131 33.58E | 64 | 49N 130 | 53E | 669362 | 24514 | 144 | 51 | 17 17 | 2.528 |
| 18 | 2 | 7 55.803 | 64 17.20N | 131 46.79E | 64 | 41N 131 | 7E | 668794 | 24515 | 145 | 4 | 17 26 | 2.534 |
| 19 | 2 | 7 58.277 | 64 9.03N | 131 59.85E | 64 | 33N 131 | 20E | 668229 | 24516 | 145 | 17 | 17 36 | 2.539 |
| 20 | 2 | 8 0.753 | 64 0.84N | 132 12.77E | 64 | 25N 131 | 34E | 667665 | 24518 | 145 | 29 | 17 46 | 2.539 |
| 21 | 2 | 8 3.223 | 63 52.64N | 132 25.53E | 64 | 17N 131 | 47E | 667105 | 24519 | 145 | 42 | 17 56 | 2.544 |
| 22 | 2 | 8 5.692 | 63 44.43N | 132 38.17E | 64 | 8N 132 | 0E | 666545 | 24520 | 145 | 54 | 18 5 | 2.544 |
| 23 | 2 | 8 8.157 | 63 36.20N | 132 50.65E | 64 | 0N 132 | 13E | 665989 | 24522 | 146 | 7 | 18 15 | 2.549 |
| 24 | 2 | 8 10.612 | 63 27.99N | 133 2.96E | 63 | 52N 132 | 25E | 665436 | 24523 | 146 | 19 | 18 25 | 2.559 |
| 25 | 2 | 8 13.072 | 63 19.75N | 133 15.17E | 63 | 44N 132 | 38E | 664883 | 24524 | 146 | 31 | 18 35 | 2.554 |
| 26 | 2 | 8 15.523 | 63 11.51N | 133 27.22E | 63 | 36N 132 | 50E | 664334 | 24525 | 146 | 43 | 18 44 | 2.564 |
| 27 | 2 | 8 17.973 | 63 3.27N | 133 39.14E | 63 | 27N 133 | 3E | 663787 | 24527 | 146 | 54 | 18 54 | 2.566 |
| 28 | 2 | 8 20.418 | 62 55.01N | 133 50.92E | 63 | 19N 133 | 15E | 663242 | 24528 | 147 | 6 | 19 3 | 2.570 |
| 29 | 2 | 8 22.862 | 62 46.74N | 134 2.58E | 63 | 11N 133 | 27E | 662700 | 24529 | 147 | 17 | 19 13 | 2.570 |
| 30 | 2 | 8 25.308 | 62 38.45N | 134 14.13E | 63 | 3N 133 | 39E | 662158 | 24531 | 147 | 29 | 19 23 | 2.578 |
| 31 | 2 | 8 27.742 | 62 30.18N | 134 25.53E | 62 | 55N 133 | 51E | 661621 | 24532 | 147 | 40 | 19 32 | 2.588 |
| 32 | 2 | 8 30.179 | 62 21.88N | 134 36.82E | 62 | 46N 134 | 2E | 661085 | 24533 | 147 | 51 | 19 42 | 2.579 |
| 33 | 2 | 8 32.612 | 62 13.58N | 134 47.99E | 62 | 38N 134 | 14E | 660551 | 24534 | 148 | 2 | 19 52 | 2.581 |
| 34 | 2 | 8 35.043 | 62 5.27N | 134 59.03E | 62 | 30N 134 | 25E | 660019 | 24536 | 148 | 13 | 20 1 | 2.586 |
| 35 | 2 | 8 37.473 | 61 56.95N | 135 9.97E | 62 | 21N 134 | 36E | 659489 | 24537 | 148 | 24 | 20 11 | 2.586 |
| 36 | 2 | 8 39.893 | 61 48.64N | 135 20.76E | 62 | 13N 134 | 48E | 658963 | 24538 | 148 | 34 | 20 20 | 2.596 |
| 37 | 2 | 8 42.313 | 61 40.32N | 135 31.45E | 62 | 5N 134 | 59E | 658438 | 24539 | 148 | 45 | 20 30 | 2.596 |
| 38 | 2 | 8 44.737 | 61 31.96N | 135 42.06E | 61 | 56N 135 | 9E | 657914 | 24540 | 148 | 55 | 20 39 | 2.591 |
| 39 | 2 | 8 47.152 | 61 23.62N | 135 52.53E | 61 | 48N 135 | 20E | 657394 | 24542 | 149 | 5 | 20 49 | 2.602 |
| 40 | 2 | 8 49.563 | 61 15.29N | 136 2.88E | 61 | 40N 135 | 31E | 656876 | 24543 | 149 | 15 | 20 58 | 2.607 |
| 41 | 2 | 8 51.978 | 61 6.92N | 136 13.16E | 61 | 32N 135 | 41E | 656358 | 24544 | 149 | 26 | 21 8 | 2.602 |

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PASS 1000 AFT 4MAR65

| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | |
|-----|----|----|--------|------|-----|--------|-----|--------|-----|-----|-----|------|----------|-------|---------|------|-------|------|-----|------|-------|
| 1 | 3 | 35 | 55.831 | 0 | 70 | 0.14N | 96 | 15.04E | 70 | 21N | 95 | 8E | 695399 | 24453 | 132 | 19 | 9 | 59 | ND | ND | 1.821 |
| 2 | 3 | 35 | 59.281 | 3450 | 69 | 50.79N | 96 | 44.69E | 70 | 11N | 95 | 39E | 694529 | 24455 | 132 | 49 | 10 | 12 | ND | ND | 1.821 |
| 3 | 3 | 36 | 2.182 | 2900 | 69 | 42.85N | 97 | 9.26E | 70 | 4N | 96 | 4E | 693798 | 24457 | 133 | 13 | 10 | 24 | ND | ND | 2.167 |
| 4 | 3 | 36 | 4.928 | 2746 | 69 | 35.29N | 97 | 32.25E | 69 | 56N | 96 | 28E | 693109 | 24458 | 133 | 36 | 10 | 35 | ND | ND | 2.288 |
| 5 | 3 | 36 | 7.611 | 2684 | 69 | 27.84N | 97 | 54.44E | 69 | 49N | 96 | 51E | 692436 | 24460 | 133 | 58 | 10 | 45 | ND | ND | 2.341 |
| 6 | 3 | 36 | 10.271 | 2660 | 69 | 20.41N | 98 | 16.18E | 69 | 41N | 97 | 14E | 691112 | 24463 | 134 | 41 | 11 | 6 | ND | ND | 2.362 |
| 7 | 3 | 36 | 12.911 | 2640 | 69 | 12.99N | 98 | 37.50E | 69 | 34N | 97 | 36E | 691112 | 24463 | 134 | 41 | 11 | 6 | ND | ND | 2.380 |
| 8 | 3 | 36 | 15.541 | 2630 | 69 | 5.55N | 98 | 58.49E | 69 | 27N | 97 | 57E | 690458 | 24464 | 135 | 2 | 11 | 16 | ND | ND | 2.389 |
| 9 | 3 | 36 | 18.161 | 2620 | 68 | 58.09N | 99 | 19.16E | 69 | 19N | 98 | 19E | 689806 | 24466 | 135 | 22 | 11 | 27 | ND | ND | 2.398 |
| 10 | 3 | 36 | 20.776 | 2615 | 68 | 50.60N | 99 | 39.56E | 69 | 12N | 98 | 40E | 689158 | 24468 | 135 | 43 | 11 | 37 | ND | ND | 2.403 |
| 11 | 3 | 36 | 23.382 | 2605 | 68 | 43.10N | 99 | 59.65E | 69 | 5N | 99 | 1E | 688513 | 24469 | 136 | 3 | 11 | 47 | ND | ND | 2.412 |
| 12 | 3 | 36 | 25.981 | 2600 | 68 | 35.57N | 100 | 19.46E | 68 | 57N | 99 | 21E | 687871 | 24470 | 136 | 22 | 11 | 58 | ND | ND | 2.417 |
| 13 | 3 | 36 | 28.576 | 2595 | 68 | 28.02N | 100 | 39.01E | 68 | 50N | 99 | 42E | 687232 | 24472 | 136 | 42 | 12 | 8 | ND | ND | 2.421 |
| 14 | 3 | 36 | 31.172 | 2595 | 68 | 20.42N | 100 | 58.35E | 68 | 42N | 100 | 2E | 686594 | 24473 | 137 | 1 | 12 | 18 | ND | ND | 2.421 |
| 15 | 3 | 36 | 33.757 | 2585 | 68 | 12.81N | 101 | 17.38E | 68 | 35N | 100 | 21E | 685960 | 24475 | 137 | 20 | 12 | 28 | ND | ND | 2.431 |
| 16 | 3 | 36 | 36.342 | 2585 | 68 | 5.16N | 101 | 36.20E | 68 | 27N | 100 | 41E | 685327 | 24476 | 137 | 38 | 12 | 39 | ND | ND | 2.431 |
| 17 | 3 | 36 | 38.917 | 2576 | 67 | 57.51N | 101 | 54.74E | 68 | 20N | 101 | 0E | 684699 | 24478 | 137 | 57 | 12 | 49 | ND | ND | 2.439 |
| 18 | 3 | 36 | 41.492 | 2575 | 67 | 49.81N | 102 | 13.06E | 68 | 12N | 101 | 19E | 684071 | 24479 | 138 | 15 | 12 | 59 | ND | ND | 2.440 |
| 19 | 3 | 36 | 44.062 | 2569 | 67 | 42.10N | 102 | 31.14E | 68 | 4N | 101 | 38E | 683447 | 24481 | 138 | 33 | 13 | 9 | ND | ND | 2.446 |
| 20 | 3 | 36 | 46.628 | 2566 | 67 | 34.36N | 102 | 49.00E | 67 | 57N | 101 | 56E | 682824 | 24482 | 138 | 50 | 13 | 19 | ND | ND | 2.449 |
| 21 | 3 | 36 | 49.187 | 2559 | 67 | 26.61N | 103 | 6.60E | 67 | 49N | 102 | 14E | 682205 | 24484 | 139 | 8 | 13 | 29 | ND | ND | 2.455 |
| 22 | 3 | 36 | 51.746 | 2550 | 67 | 18.82N | 103 | 24.01E | 67 | 41N | 102 | 32E | 681507 | 24485 | 139 | 25 | 13 | 39 | ND | ND | 2.454 |
| 23 | 3 | 36 | 54.297 | 2550 | 67 | 11.03N | 103 | 41.17E | 67 | 34N | 102 | 50E | 680973 | 24486 | 139 | 42 | 13 | 49 | ND | ND | 2.464 |
| 24 | 3 | 36 | 56.848 | 2551 | 67 | 3.20N | 103 | 58.15E | 67 | 26N | 103 | 8E | 680360 | 24488 | 139 | 59 | 13 | 59 | ND | ND | 2.463 |
| 25 | 3 | 36 | 59.396 | 2549 | 66 | 55.34N | 104 | 14.92E | 67 | 18N | 103 | 25E | 679749 | 24489 | 140 | 16 | 14 | 9 | ND | ND | 2.465 |
| 26 | 3 | 37 | 1.937 | 2540 | 66 | 47.48N | 104 | 31.44E | 67 | 10N | 103 | 42E | 679142 | 24491 | 140 | 32 | 14 | 19 | ND | ND | 2.474 |
| 27 | 3 | 37 | 4.477 | 2540 | 66 | 39.59N | 104 | 47.79E | 67 | 2N | 103 | 59E | 678536 | 24492 | 140 | 48 | 14 | 30 | ND | ND | 2.474 |
| 28 | 3 | 37 | 7.012 | 2535 | 66 | 31.69N | 105 | 3.93E | 66 | 55N | 104 | 16E | 677933 | 24494 | 141 | 4 | 14 | 40 | ND | ND | 2.479 |
| 29 | 3 | 37 | 9.542 | 2531 | 66 | 23.76N | 105 | 19.86E | 66 | 47N | 104 | 32E | 677332 | 24495 | 141 | 20 | 14 | 50 | ND | ND | 2.482 |
| 30 | 3 | 37 | 12.071 | 2529 | 66 | 15.82N | 105 | 35.61E | 66 | 39N | 104 | 49E | 676733 | 24496 | 141 | 35 | 15 | 0 | ND | ND | 2.484 |
| 31 | 3 | 37 | 14.593 | 2521 | 66 | 7.86N | 105 | 51.14E | 66 | 31N | 105 | 5E | 676137 | 24498 | 141 | 51 | 15 | 9 | ND | ND | 2.492 |
| 32 | 3 | 37 | 17.121 | 2529 | 65 | 59.86N | 106 | 6.55E | 66 | 23N | 105 | 21E | 675541 | 24499 | 142 | 6 | 15 | 19 | ND | ND | 2.484 |
| 33 | 3 | 37 | 19.637 | 2515 | 65 | 51.87N | 106 | 21.72E | 66 | 15N | 105 | 36E | 674950 | 24500 | 142 | 21 | 15 | 29 | ND | ND | 2.498 |
| 34 | 3 | 37 | 22.151 | 2515 | 65 | 43.86N | 106 | 36.71E | 66 | 7N | 105 | 52E | 674360 | 24502 | 142 | 36 | 15 | 39 | ND | ND | 2.498 |
| 35 | 3 | 37 | 24.661 | 2510 | 65 | 35.83N | 106 | 51.52E | 65 | 59N | 106 | 7E | 673773 | 24503 | 142 | 51 | 15 | 49 | ND | ND | 2.503 |
| 36 | 3 | 37 | 27.172 | 2510 | 65 | 27.78N | 107 | 6.18E | 65 | 51N | 106 | 22E | 673188 | 24505 | 143 | 5 | 15 | 59 | ND | ND | 2.503 |
| 37 | 3 | 37 | 29.682 | 2510 | 65 | 19.70N | 107 | 20.67E | 65 | 43N | 106 | 37E | 672603 | 24506 | 143 | 19 | 16 | 9 | ND | ND | 2.503 |
| 38 | 3 | 37 | 32.182 | 2500 | 65 | 11.62N | 107 | 34.96E | 65 | 35N | 106 | 52E | 672023 | 24507 | 143 | 33 | 16 | 19 | ND | ND | 2.513 |
| 39 | 3 | 37 | 34.677 | 2495 | 65 | 3.54N | 107 | 49.07E | 65 | 27N | 107 | 7E | 671445 | 24509 | 143 | 47 | 16 | 29 | ND | ND | 2.518 |
| 40 | 3 | 37 | 37.177 | 2500 | 64 | 55.42N | 108 | 3.06E | 65 | 19N | 107 | 21E | 670868 | 24510 | 144 | 1 | 16 | 39 | ND | ND | 2.513 |
| 41 | 3 | 37 | 39.666 | 2490 | 64 | 47.31N | 108 | 16.84E | 65 | 11N | 107 | 35E | 670295 | 24511 | 144 | 15 | 16 | 48 | ND | ND | 2.523 |
| 42 | 3 | 37 | 42.156 | 2490 | 64 | 39.17N | 108 | 30.49E | 65 | 3N | 107 | 49E | 669723 | 24513 | 144 | 28 | 16 | 58 | ND | ND | 2.523 |
| 43 | 3 | 37 | 44.638 | 2481 | 64 | 31.04N | 108 | 43.95E | 64 | 55N | 108 | 3E | 669154 | 24514 | 144 | 42 | 17 | 8 | ND | ND | 2.533 |
| 44 | 3 | 37 | 47.122 | 2485 | 64 | 22.88N | 108 | 57.28E | 64 | 47N | 108 | 17E | 668587 | 24515 | 144 | 55 | 17 | 18 | ND | ND | 2.528 |
| 45 | 3 | 37 | 49.606 | 2480 | 64 | 14.69N | 109 | 10.48E | 64 | 39N | 108 | 31E | 668021 | 24517 | 145 | 8 | 17 | 28 | ND | ND | 2.529 |

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

| FRM | HR | MI | SEC | DTIM | MILS | DEG | LAT | DEG | MIN | LONG | DEG | MIN | LONG | DEG | MIN | LONG | ALTITUDE | VELOC | F/S | DEG | MI | DEG | MI | DEG | MI | PITCH | DEG | MIN | ROLL | DEG | MIN | YAW | DEG | MIN | SCAN | RATE |
|-----|--------|----|--------|-------|------|--------|-----|--------|-----|------|-----|-----|--------|-------|-----|------|----------|-------|-----|-----|-----|-----|-----|-----|-------|-------|-----|------|------|-----|-----|-----|-------|-------|------|------|
| FRM | Z TIME | | | DTIM | MILS | DEG | LAT | DEG | MIN | LONG | DEG | MIN | LONG | DEG | MIN | LONG | FEET | F/S | DEG | MI | DEG | MI | DEG | MI | PITCH | DEG | MIN | ROLL | DEG | MIN | YAW | DEG | MIN | SCAN | RATE | |
| 46 | 3 | 37 | 52.087 | 2480 | 64 | 6.49N | 109 | 23.52E | 64 | 30N | 108 | 44E | 667457 | 24518 | 145 | 21 | 17 | 37 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.534 | 2.534 | | |
| 47 | 3 | 37 | 54.557 | 2470 | 63 | 58.31N | 109 | 36.38E | 64 | 22N | 108 | 57E | 666897 | 24519 | 145 | 33 | 17 | 47 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.544 | 2.544 | | |
| 48 | 3 | 37 | 57.031 | 2475 | 63 | 50.09N | 109 | 49.13E | 64 | 14N | 109 | 11E | 666338 | 24521 | 145 | 46 | 17 | 57 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.539 | 2.539 | | |
| 49 | 3 | 37 | 59.497 | 2466 | 63 | 41.88N | 110 | 1.70E | 64 | 6N | 109 | 24E | 665783 | 24522 | 145 | 58 | 18 | 7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.548 | 2.548 | | |
| 50 | 3 | 38 | 1.962 | 2464 | 63 | 33.65N | 110 | 14.15E | 63 | 58N | 109 | 36E | 665228 | 24523 | 146 | 10 | 18 | 16 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.550 | 2.550 | | |
| 51 | 3 | 38 | 4.427 | 2465 | 63 | 25.41N | 110 | 26.47E | 63 | 49N | 109 | 49E | 664676 | 24524 | 146 | 23 | 18 | 26 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.549 | 2.549 | | |
| 52 | 3 | 38 | 6.887 | 2465 | 63 | 17.15N | 110 | 38.64E | 63 | 41N | 110 | 2E | 664126 | 24526 | 146 | 35 | 18 | 36 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.554 | 2.554 | | |
| 53 | 3 | 38 | 9.342 | 2455 | 63 | 8.90N | 110 | 50.67E | 63 | 33N | 110 | 14E | 663579 | 24527 | 146 | 46 | 18 | 45 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.559 | 2.559 | | |
| 54 | 3 | 38 | 11.802 | 2460 | 63 | 0.61N | 111 | 2.60E | 63 | 25N | 110 | 26E | 663033 | 24528 | 146 | 58 | 18 | 55 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.554 | 2.554 | | |
| 55 | 3 | 38 | 14.247 | 2446 | 62 | 52.35N | 111 | 14.35E | 63 | 17N | 110 | 38E | 662491 | 24530 | 147 | 10 | 19 | 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.569 | 2.569 | | |
| 56 | 3 | 38 | 16.696 | 2449 | 62 | 44.06N | 111 | 26.00E | 63 | 8N | 110 | 50E | 661950 | 24531 | 147 | 21 | 19 | 14 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.566 | 2.566 | | |
| 57 | 3 | 38 | 19.146 | 2450 | 62 | 35.74N | 111 | 37.54E | 63 | 0N | 111 | 2E | 661410 | 24532 | 147 | 32 | 19 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.565 | 2.565 | | |
| 58 | 3 | 38 | 21.587 | 2440 | 62 | 27.44N | 111 | 48.92E | 62 | 52N | 111 | 14E | 660874 | 24533 | 147 | 44 | 19 | 34 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.575 | 2.575 | | |
| 59 | 3 | 38 | 24.026 | 2440 | 62 | 19.13N | 112 | 0.19E | 62 | 43N | 111 | 26E | 660340 | 24535 | 147 | 55 | 19 | 43 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.575 | 2.575 | | |
| 60 | 3 | 38 | 26.467 | 2440 | 62 | 10.80N | 112 | 11.35E | 62 | 35N | 111 | 37E | 659807 | 24536 | 148 | 6 | 19 | 53 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.575 | 2.575 | | |
| 61 | 3 | 38 | 28.901 | 2430 | 62 | 2.47N | 112 | 22.39E | 62 | 27N | 111 | 49E | 659277 | 24537 | 148 | 16 | 20 | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.580 | 2.580 | | |
| 62 | 3 | 38 | 31.331 | 2430 | 61 | 54.14N | 112 | 33.29E | 62 | 19N | 112 | 0E | 658750 | 24538 | 148 | 27 | 20 | 12 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.586 | 2.586 | | |
| 63 | 3 | 38 | 33.758 | 2426 | 61 | 45.08N | 112 | 44.08E | 62 | 10N | 112 | 11E | 658225 | 24539 | 148 | 38 | 20 | 22 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.590 | 2.590 | | |
| 64 | 3 | 38 | 36.187 | 2429 | 61 | 37.44N | 112 | 54.77E | 62 | 2N | 112 | 22E | 657701 | 24541 | 148 | 48 | 20 | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.587 | 2.587 | | |
| 65 | 3 | 38 | 38.611 | 2425 | 61 | 29.08N | 113 | 5.35E | 61 | 54N | 112 | 33E | 657179 | 24542 | 148 | 59 | 20 | 41 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.591 | 2.591 | | |
| 66 | 3 | 38 | 41.036 | 2425 | 61 | 20.71N | 113 | 15.83E | 61 | 45N | 112 | 44E | 656660 | 24543 | 149 | 9 | 20 | 51 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.591 | 2.591 | | |
| 67 | 3 | 38 | 43.451 | 2415 | 61 | 12.35N | 113 | 26.17E | 61 | 37N | 112 | 54E | 656143 | 24544 | 149 | 19 | 21 | 0 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.602 | 2.602 | | |
| 68 | 3 | 39 | 19.807 | 36355 | 59 | 4.80N | 115 | 50.08E | 59 | 30N | 115 | 23E | 648574 | 24562 | 151 | 40 | 23 | 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.963 | 1.963 | | |
| 69 | 3 | 39 | 23.007 | 3200 | 58 | 53.43N | 116 | 2.70E | 59 | 18N | 115 | 35E | 647926 | 24564 | 151 | 52 | 23 | 36 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.361 | 2.361 | | |
| 70 | 3 | 39 | 25.667 | 2661 | 58 | 43.96N | 116 | 12.43E | 59 | 9N | 115 | 45E | 647390 | 24565 | 152 | 1 | 23 | 47 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.499 | 2.499 | | |
| 71 | 3 | 39 | 28.182 | 2514 | 58 | 35.00N | 116 | 21.59E | 59 | 0N | 115 | 55E | 646885 | 24566 | 152 | 10 | 23 | 56 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.570 | 2.570 | | |
| 72 | 3 | 39 | 30.627 | 2445 | 58 | 26.27N | 116 | 30.32E | 58 | 51N | 116 | 4E | 646396 | 24567 | 152 | 19 | 24 | 6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.606 | 2.606 | | |
| 73 | 3 | 39 | 33.037 | 2411 | 58 | 17.66N | 116 | 38.99E | 58 | 43N | 116 | 13E | 645915 | 24568 | 152 | 27 | 24 | 16 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.614 | 2.614 | | |
| 74 | 3 | 39 | 35.441 | 2404 | 58 | 9.05N | 116 | 47.36E | 58 | 34N | 116 | 21E | 645438 | 24569 | 152 | 35 | 24 | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.629 | 2.629 | | |
| 75 | 3 | 39 | 37.831 | 2390 | 58 | 0.49N | 116 | 55.72E | 58 | 25N | 116 | 30E | 644965 | 24571 | 152 | 43 | 24 | 34 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.634 | 2.634 | | |
| 76 | 3 | 39 | 40.217 | 2385 | 57 | 51.93N | 117 | 4.02E | 58 | 17N | 116 | 38E | 644495 | 24572 | 152 | 51 | 24 | 44 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.648 | 2.648 | | |
| 77 | 3 | 39 | 42.597 | 2380 | 57 | 43.38N | 117 | 12.28E | 58 | 8N | 116 | 47E | 644027 | 24573 | 152 | 59 | 24 | 53 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.646 | 2.646 | | |
| 78 | 3 | 39 | 44.972 | 2375 | 57 | 34.03N | 117 | 20.39E | 58 | 0N | 116 | 55E | 643563 | 24574 | 153 | 7 | 25 | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.651 | 2.651 | | |
| 79 | 3 | 39 | 47.342 | 2370 | 57 | 26.30N | 117 | 28.32E | 57 | 51N | 117 | 3E | 643100 | 24575 | 153 | 15 | 25 | 12 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.657 | 2.657 | | |
| 80 | 3 | 39 | 49.706 | 2365 | 57 | 17.77N | 117 | 36.25E | 57 | 43N | 117 | 11E | 642641 | 24576 | 153 | 23 | 25 | 21 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.651 | 2.651 | | |
| 81 | 3 | 39 | 52.076 | 2370 | 57 | 9.22N | 117 | 44.14E | 57 | 34N | 117 | 20E | 642183 | 24577 | 153 | 30 | 25 | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.657 | 2.657 | | |
| 82 | 3 | 39 | 54.437 | 2360 | 57 | 0.68N | 117 | 51.93E | 57 | 26N | 117 | 28E | 641728 | 24579 | 153 | 38 | 25 | 40 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.662 | 2.662 | | |
| 83 | 3 | 39 | 56.786 | 2350 | 56 | 52.18N | 118 | 7.28E | 57 | 17N | 117 | 35E | 641276 | 24580 | 153 | 45 | 25 | 49 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.674 | 2.674 | | |
| 84 | 3 | 39 | 59.146 | 2360 | 56 | 43.63N | 118 | 7.28E | 57 | 9N | 117 | 43E | 640825 | 24580 | 153 | 52 | 25 | 58 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.662 | 2.662 | | |
| 85 | 3 | 40 | 1.496 | 2350 | 56 | 35.11N | 118 | 14.85E | 57 | 0N | 117 | 51E | 640378 | 24581 | 154 | 0 | 26 | 8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.674 | 2.674 | | |
| 86 | 3 | 40 | 3.852 | 2355 | 56 | 26.56N | 118 | 22.37E | 56 | 52N | 117 | 59E | 639931 | 24582 | 154 | 7 | 26 | 17 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.668 | 2.668 | | |
| 87 | 3 | 40 | 6.196 | 2345 | 56 | 18.04N | 118 | 29.88E | 56 | 43N | 118 | 6E | 639488 | 24583 | 154 | 14 | 26 | 26 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.679 | 2.679 | | |
| 88 | 3 | 40 | 8.541 | 2345 | 56 | 9.51N | 118 | 37.17E | 56 | 35N | 118 | 14E | 639046 | 24584 | 154 | 21 | 26 | 35 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.679 | 2.679 | | |
| 89 | 3 | 40 | 10.887 | 2345 | 56 | 0.96N | 118 | 44.49E | 56 | 26N | 118 | | | | | | | | | | | | | | | | | | | | | | | | | |

HANDLE VIA
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SPECIAL HANDLING REQUIRED

ICS 84868-64

PASS 1080 AFT 4MAR65 FRAME EPHEMERIS . MISSION 1017-2 ID 43 LIST DATE 10MAY65 PAGE 103

| FRM | 2 TIME | HR MI | SEC | DTIM | MILS | DEG | LAT | CAMERA NADIR | LONG | DEG | LAT | FORMAT CENTER | LONG | ALTITUDE | VELOC | F/S | DEG | MI | SUNV | PITCH | ROLL | YAW | SCAN | |
|-----|--------|--------|-------|------|--------|-----|--------|--------------|---------|------|--------|---------------|------|----------|-------|-----|-----|----|------|-------|------|-----|-------|--|
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 91 | 3 40 | 15.566 | 2340 | 55 | 43.89N | 118 | 58.91E | 56 | 9N 118 | 36E | 637734 | 24588 | 154 | 42 | 27 | 3 | | | | ND | ND | ND | 2.685 | |
| 92 | 3 40 | 17.901 | 2335 | 55 | 35.36N | 119 | 6.03E | 56 | 0N 118 | 44E | 637302 | 24589 | 154 | 49 | 27 | 12 | | | | ND | ND | ND | 2.691 | |
| 93 | 3 40 | 20.236 | 2335 | 55 | 26.82N | 119 | 13.09E | 55 | 52N 118 | 51E | 636871 | 24590 | 154 | 56 | 27 | 22 | | | | ND | ND | ND | 2.691 | |
| 94 | 3 40 | 22.566 | 2330 | 55 | 18.29N | 119 | 28.08E | 55 | 43N 118 | 58E | 636442 | 24591 | 155 | 3 | 27 | 31 | | | | ND | ND | ND | 2.697 | |
| 95 | 3 40 | 24.896 | 2330 | 55 | 9.76N | 119 | 27.01E | 55 | 35N 119 | 5E | 636017 | 24592 | 155 | 9 | 27 | 40 | | | | ND | ND | ND | 2.697 | |
| 96 | 3 40 | 27.222 | 2325 | 55 | 1.23N | 119 | 33.88E | 55 | 26N 119 | 12E | 635593 | 24593 | 155 | 16 | 27 | 49 | | | | ND | ND | ND | 2.702 | |
| 97 | 3 40 | 29.547 | 2325 | 54 | 52.69N | 119 | 40.69E | 55 | 18N 119 | 19E | 635171 | 24594 | 155 | 22 | 27 | 58 | | | | ND | ND | ND | 2.702 | |
| 98 | 3 40 | 31.871 | 2316 | 54 | 44.15N | 119 | 47.45E | 55 | 9N 119 | 26E | 634752 | 24595 | 155 | 29 | 28 | 7 | | | | ND | ND | ND | 2.702 | |
| 99 | 3 40 | 34.188 | 2316 | 54 | 35.63N | 119 | 54.14E | 55 | 1N 119 | 33E | 634335 | 24596 | 155 | 35 | 28 | 16 | | | | ND | ND | ND | 2.713 | |
| 100 | 3 40 | 36.507 | 2319 | 54 | 27.09N | 120 | 0.79E | 54 | 52N 119 | 40E | 633919 | 24596 | 155 | 42 | 28 | 26 | | | | ND | ND | ND | 2.709 | |
| 101 | 3 40 | 38.826 | 2320 | 54 | 18.55N | 120 | 7.38E | 54 | 44N 119 | 46E | 633506 | 24597 | 155 | 48 | 28 | 35 | | | | ND | ND | ND | 2.708 | |
| 102 | 3 40 | 41.142 | 2315 | 54 | 10.01N | 120 | 13.92E | 54 | 35N 119 | 53E | 633095 | 24598 | 155 | 54 | 28 | 44 | | | | ND | ND | ND | 2.714 | |
| 103 | 3 40 | 43.456 | 2315 | 54 | 1.47N | 120 | 20.40E | 54 | 27N 120 | 0E | 632686 | 24599 | 156 | 0 | 28 | 53 | | | | ND | ND | ND | 2.714 | |
| 104 | 3 40 | 45.762 | 2305 | 53 | 52.95N | 120 | 26.82E | 54 | 18N 120 | 6E | 632280 | 24600 | 156 | 6 | 29 | 2 | | | | ND | ND | ND | 2.726 | |
| 105 | 3 40 | 48.076 | 2315 | 53 | 44.39N | 120 | 33.21E | 54 | 10N 120 | 13E | 631875 | 24601 | 156 | 12 | 29 | 11 | | | | ND | ND | ND | 2.714 | |
| 106 | 3 40 | 50.382 | 2305 | 53 | 35.86N | 120 | 39.53E | 54 | 1N 120 | 19E | 631473 | 24602 | 156 | 19 | 29 | 20 | | | | ND | ND | ND | 2.726 | |
| 107 | 3 40 | 52.682 | 2300 | 53 | 27.34N | 120 | 45.78E | 53 | 52N 120 | 26E | 631074 | 24603 | 156 | 24 | 29 | 29 | | | | ND | ND | ND | 2.732 | |
| 108 | 3 40 | 54.991 | 2310 | 53 | 18.78N | 120 | 52.02E | 53 | 44N 120 | 32E | 630675 | 24604 | 156 | 30 | 29 | 38 | | | | ND | ND | ND | 2.720 | |
| 109 | 3 40 | 57.291 | 2300 | 53 | 10.25N | 120 | 58.19E | 53 | 35N 120 | 38E | 630288 | 24605 | 156 | 36 | 29 | 47 | | | | ND | ND | ND | 2.732 | |
| 110 | 3 40 | 59.592 | 2300 | 53 | 1.71N | 121 | 4.31E | 53 | 27N 120 | 45E | 629885 | 24606 | 156 | 42 | 29 | 56 | | | | ND | ND | ND | 2.732 | |
| 111 | 3 41 | 1.887 | 2295 | 52 | 53.18N | 121 | 10.38E | 53 | 18N 120 | 51E | 629495 | 24607 | 156 | 48 | 30 | 5 | | | | ND | ND | ND | 2.738 | |
| 112 | 3 41 | 4.187 | 2300 | 52 | 44.63N | 121 | 16.42E | 53 | 10N 120 | 57E | 629104 | 24608 | 156 | 54 | 30 | 14 | | | | ND | ND | ND | 2.732 | |
| 113 | 3 41 | 6.486 | 2290 | 52 | 36.07N | 121 | 22.41E | 53 | 1N 121 | 3E | 628717 | 24609 | 156 | 59 | 30 | 23 | | | | ND | ND | ND | 2.732 | |
| 114 | 3 41 | 8.776 | 2290 | 52 | 27.55N | 121 | 28.34E | 52 | 53N 121 | 9E | 628332 | 24610 | 157 | 5 | 30 | 32 | | | | ND | ND | ND | 2.744 | |
| 115 | 3 41 | 11.066 | 2290 | 52 | 19.01N | 121 | 34.22E | 52 | 44N 121 | 15E | 627949 | 24611 | 157 | 10 | 30 | 41 | | | | ND | ND | ND | 2.744 | |
| 116 | 3 41 | 13.361 | 2295 | 52 | 10.45N | 121 | 40.07E | 52 | 36N 121 | 21E | 627567 | 24611 | 157 | 16 | 30 | 50 | | | | ND | ND | ND | 2.738 | |
| 117 | 3 41 | 15.651 | 2290 | 52 | 1.91N | 121 | 45.88E | 52 | 27N 121 | 27E | 627188 | 24612 | 157 | 21 | 30 | 59 | | | | ND | ND | ND | 2.744 | |
| 118 | 3 43 | 47.572 | 51921 | 42 | 23.71N | 126 | 58.32E | 42 | 49N 126 | 46E | 606505 | 24662 | 162 | 7 | 40 | 54 | | | | ND | ND | ND | 0.041 | |
| 119 | 3 43 | 50.646 | 3074 | 42 | 11.82N | 127 | 3.47E | 42 | 37N 126 | 51E | 606183 | 24662 | 162 | 12 | 41 | 5 | | | | ND | ND | ND | 2.044 | |
| 120 | 3 43 | 53.166 | 2520 | 42 | 2.08N | 127 | 7.66E | 42 | 27N 126 | 55E | 605922 | 24663 | 162 | 16 | 41 | 15 | | | | ND | ND | ND | 2.493 | |
| 121 | 3 43 | 55.531 | 2365 | 41 | 52.93N | 127 | 11.58E | 42 | 18N 126 | 059E | 605686 | 24663 | 162 | 19 | 41 | 24 | | | | ND | ND | ND | 2.657 | |
| 122 | 3 43 | 57.837 | 2305 | 41 | 44.01N | 127 | 15.37E | 42 | 9N 127 | 3E | 605444 | 24664 | 162 | 22 | 41 | 33 | | | | ND | ND | ND | 2.726 | |
| 123 | 3 44 | 0.111 | 2275 | 41 | 35.20N | 127 | 19.10E | 42 | 0N 127 | 7E | 605218 | 24665 | 162 | 25 | 41 | 42 | | | | ND | ND | ND | 2.762 | |
| 124 | 3 44 | 2.382 | 2270 | 41 | 26.41N | 127 | 22.80E | 41 | 52N 127 | 11E | 604992 | 24665 | 162 | 29 | 41 | 51 | | | | ND | ND | ND | 2.768 | |
| 125 | 3 44 | 4.642 | 2260 | 41 | 17.66N | 127 | 26.46E | 41 | 43N 127 | 14E | 604770 | 24666 | 162 | 32 | 42 | 0 | | | | ND | ND | ND | 2.780 | |
| 126 | 3 44 | 6.896 | 2255 | 41 | 8.92N | 127 | 30.10E | 41 | 34N 127 | 18E | 604550 | 24666 | 162 | 35 | 42 | 9 | | | | ND | ND | ND | 2.786 | |
| 127 | 3 44 | 9.146 | 2250 | 41 | 0.20N | 127 | 33.71E | 41 | 25N 127 | 22E | 604333 | 24667 | 162 | 38 | 42 | 17 | | | | ND | ND | ND | 2.793 | |
| 128 | 3 44 | 11.401 | 2255 | 40 | 51.46N | 127 | 37.30E | 41 | 17N 127 | 25E | 604118 | 24667 | 162 | 41 | 42 | 26 | | | | ND | ND | ND | 2.786 | |
| 129 | 3 44 | 13.651 | 2250 | 40 | 42.73N | 127 | 40.88E | 41 | 8N 127 | 29E | 603905 | 24668 | 162 | 44 | 42 | 35 | | | | ND | ND | ND | 2.793 | |
| 130 | 3 44 | 15.901 | 2250 | 40 | 34.00N | 127 | 44.43E | 40 | 59N 127 | 33E | 603695 | 24668 | 162 | 47 | 42 | 43 | | | | ND | ND | ND | 2.793 | |
| 131 | 3 44 | 18.142 | 2240 | 40 | 25.30N | 127 | 47.96E | 40 | 50N 127 | 36E | 603488 | 24669 | 162 | 50 | 42 | 52 | | | | ND | ND | ND | 2.805 | |
| 132 | 3 44 | 20.387 | 2245 | 40 | 16.59N | 127 | 51.47E | 40 | 42N 127 | 40E | 603282 | 24669 | 162 | 53 | 43 | 1 | | | | ND | ND | ND | 2.799 | |
| 133 | 3 44 | 22.632 | 2245 | 40 | 7.87N | 127 | 54.97E | 40 | 33N 127 | 43E | 603079 | 24670 | 162 | 56 | 43 | 9 | | | | ND | ND | ND | 2.799 | |
| 134 | 3 44 | 24.877 | 2245 | 39 | 59.14N | 127 | 58.44E | 40 | 24N 127 | 47E | 602878 | 24670 | 162 | 59 | 43 | 18 | | | | ND | ND | ND | 2.799 | |
| 135 | 3 44 | 27.116 | 2240 | 39 | 50.44N | 128 | 1.90E | 40 | 16N 127 | 50E | 602680 | 24671 | 163 | 2 | 43 | 27 | | | | ND | ND | ND | 2.705 | |

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84868-64

PASS 1080 AFT 4MAY65

FRAME EPHEMERIS MISSION 1017-2

ID 43 LIST DATE 10MAY65 PAGE 184

| FRM | 2 TIME | | DTIM | CAMERA NADIR | | | FORMAT CENTER | | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | |
|-----|--------|----|--------|--------------|--------|------|---------------|-----|------|----------|-------|---------|-------|-------|------|-----|------|-------|
| | HR | MI | | DEG | MIN | LONG | DEG | MIN | LONG | | | | | | | | | FEET |
| 136 | 3 | 44 | 29.356 | 39 | 41.73N | 128 | 5.33E | 40 | 7N | 127 | 54E | 602484 | 24671 | 163 | 5 | 43 | 36 | 2.805 |
| 137 | 3 | 44 | 31.602 | 39 | 33.00N | 128 | 8.76E | 39 | 58N | 127 | 57E | 602298 | 24672 | 163 | 8 | 43 | 44 | 2.799 |
| 138 | 3 | 44 | 33.842 | 39 | 24.29N | 128 | 12.16E | 39 | 49N | 128 | 1E | 602298 | 24672 | 163 | 11 | 43 | 53 | 2.805 |
| 139 | 3 | 44 | 36.076 | 39 | 15.60N | 128 | 15.54E | 39 | 41N | 128 | 4E | 601909 | 24673 | 163 | 14 | 44 | 1 | 2.811 |
| 140 | 3 | 44 | 38.316 | 39 | 6.88N | 128 | 18.91E | 39 | 32N | 128 | 8E | 601722 | 24673 | 163 | 17 | 44 | 10 | 2.805 |
| 141 | 3 | 44 | 40.552 | 38 | 58.17N | 128 | 22.26E | 39 | 23N | 128 | 11E | 601538 | 24673 | 163 | 19 | 44 | 19 | 2.811 |
| 142 | 3 | 44 | 42.791 | 38 | 49.45N | 128 | 25.60E | 39 | 15N | 128 | 14E | 601355 | 24674 | 163 | 22 | 44 | 27 | 2.811 |
| 143 | 3 | 44 | 45.026 | 38 | 40.75N | 128 | 28.92E | 39 | 6N | 128 | 18E | 601175 | 24674 | 163 | 25 | 44 | 36 | 2.805 |
| 144 | 3 | 44 | 47.267 | 38 | 32.02N | 128 | 32.23E | 38 | 57N | 128 | 21E | 600997 | 24675 | 163 | 28 | 44 | 45 | 2.805 |
| 145 | 3 | 44 | 49.502 | 38 | 23.31N | 128 | 35.51E | 38 | 48N | 128 | 24E | 600822 | 24675 | 163 | 30 | 44 | 53 | 2.811 |
| 146 | 3 | 44 | 51.736 | 38 | 14.59N | 128 | 38.78E | 38 | 40N | 128 | 28E | 600649 | 24676 | 163 | 33 | 45 | 5 | 2.811 |
| 147 | 3 | 44 | 53.972 | 38 | 5.88N | 128 | 42.03E | 38 | 31N | 128 | 31E | 600478 | 24676 | 163 | 36 | 45 | 11 | 2.811 |
| 148 | 3 | 44 | 56.201 | 37 | 57.18N | 128 | 45.27E | 38 | 22N | 128 | 34E | 600310 | 24676 | 163 | 39 | 45 | 19 | 2.818 |

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1010 AFT 4MAR65

FRAME EPHemeris MISSION 1017-2

ID 43

LIST DATE 10MAY65

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| FRM | 2 TIME | DTIM | CAMERA | | NADIR | | FORMAT CENTER | | ALTITUDE | | VELOC | | AZIMUTH | | SUN/ | | PITCH | | ROLL | | YAW | | SCN |
|-----|--------|------|--------|-----|--------|-----|---------------|-----|----------|-----|-------|--------|---------|-----|------|-----|-------|-----|------|-----|-----|-------|------|
| HR | MI | SEC | MILS | DEG | LAT | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | RATE |
| 1 | 5 | 3 | 52.852 | 74 | 7.57N | 52 | 6.05E | 74 | 19N | 50 | 17E | 725077 | 24384 | 110 | 56 | 2 | 19 | ND | ND | ND | ND | 1.785 | |
| 2 | 5 | 3 | 56.371 | 74 | 2.46N | 52 | 53.79E | 74 | 14N | 51 | 6E | 724124 | 24387 | 111 | 43 | 2 | 33 | ND | ND | ND | ND | 1.785 | |
| 3 | 5 | 3 | 59.546 | 73 | 57.69N | 53 | 36.43E | 74 | 18N | 51 | 50E | 723266 | 24389 | 112 | 26 | 2 | 46 | ND | ND | ND | ND | 1.980 | |
| 4 | 5 | 4 | 2.436 | 73 | 53.22N | 54 | 14.87E | 74 | 6N | 52 | 29E | 722486 | 24390 | 113 | 4 | 2 | 57 | ND | ND | ND | ND | 2.174 | |
| 5 | 5 | 4 | 5.261 | 73 | 48.74N | 54 | 52.11E | 74 | 1N | 53 | 8E | 721725 | 24392 | 113 | 41 | 3 | 8 | ND | ND | ND | ND | 2.224 | |
| 6 | 5 | 4 | 8.056 | 73 | 44.20N | 55 | 28.62E | 73 | 57N | 53 | 45E | 720972 | 24394 | 114 | 18 | 3 | 19 | ND | ND | ND | ND | 2.248 | |
| 7 | 5 | 4 | 10.835 | 73 | 39.58N | 56 | 4.58E | 73 | 53N | 54 | 22E | 720226 | 24396 | 114 | 54 | 3 | 30 | ND | ND | ND | ND | 2.260 | |
| 8 | 5 | 4 | 13.604 | 73 | 34.86N | 56 | 40.00E | 73 | 48N | 54 | 59E | 719483 | 24397 | 115 | 29 | 3 | 41 | ND | ND | ND | ND | 2.270 | |
| 9 | 5 | 4 | 16.365 | 73 | 30.06N | 57 | 15.16E | 73 | 44N | 55 | 35E | 718744 | 24399 | 116 | 4 | 3 | 52 | ND | ND | ND | ND | 2.275 | |
| 10 | 5 | 4 | 19.120 | 73 | 25.17N | 57 | 49.81E | 73 | 39N | 56 | 11E | 718007 | 24401 | 116 | 39 | 4 | 3 | ND | ND | ND | ND | 2.281 | |
| 11 | 5 | 4 | 21.859 | 73 | 20.21N | 58 | 23.93E | 73 | 34N | 56 | 46E | 717275 | 24402 | 117 | 13 | 4 | 14 | ND | ND | ND | ND | 2.294 | |
| 12 | 5 | 4 | 24.596 | 73 | 15.16N | 58 | 57.68E | 73 | 30N | 57 | 21E | 716546 | 24404 | 117 | 46 | 4 | 24 | ND | ND | ND | ND | 2.296 | |
| 13 | 5 | 4 | 27.323 | 73 | 10.03N | 59 | 30.99E | 73 | 25N | 57 | 55E | 715828 | 24406 | 118 | 19 | 4 | 35 | ND | ND | ND | ND | 2.303 | |
| 14 | 5 | 4 | 30.053 | 73 | 4.81N | 60 | 3.99E | 73 | 20N | 58 | 29E | 715095 | 24407 | 118 | 52 | 4 | 46 | ND | ND | ND | ND | 2.302 | |
| 15 | 5 | 4 | 32.780 | 72 | 59.49N | 60 | 36.63E | 73 | 15N | 59 | 3E | 714372 | 24409 | 119 | 25 | 4 | 57 | ND | ND | ND | ND | 2.303 | |
| 16 | 5 | 4 | 35.495 | 72 | 54.12N | 61 | 8.78E | 73 | 10N | 59 | 36E | 713652 | 24411 | 119 | 57 | 5 | 7 | ND | ND | ND | ND | 2.314 | |
| 17 | 5 | 4 | 38.205 | 72 | 48.66N | 61 | 40.54E | 73 | 4N | 60 | 9E | 712935 | 24412 | 120 | 28 | 5 | 18 | ND | ND | ND | ND | 2.319 | |
| 18 | 5 | 4 | 40.903 | 72 | 43.14N | 62 | 11.84E | 72 | 59N | 60 | 41E | 712223 | 24414 | 121 | 0 | 5 | 29 | ND | ND | ND | ND | 2.329 | |
| 19 | 5 | 4 | 43.594 | 72 | 37.56N | 62 | 42.72E | 72 | 54N | 61 | 13E | 711514 | 24416 | 121 | 30 | 5 | 39 | ND | ND | ND | ND | 2.336 | |
| 20 | 5 | 4 | 46.283 | 72 | 31.89N | 63 | 13.27E | 72 | 48N | 61 | 45E | 710806 | 24417 | 122 | 1 | 5 | 50 | ND | ND | ND | ND | 2.336 | |
| 21 | 5 | 5 | 47.916 | 70 | 2.39N | 73 | 27.10E | 70 | 43N | 72 | 20E | 694929 | 24454 | 132 | 12 | 9 | 53 | ND | ND | ND | ND | 0.102 | |
| 22 | 5 | 5 | 51.261 | 69 | 53.35N | 73 | 55.96E | 70 | 14N | 72 | 50E | 694007 | 24456 | 132 | 40 | 10 | 6 | ND | ND | ND | ND | 1.079 | |
| 23 | 5 | 5 | 54.110 | 69 | 45.57N | 74 | 20.21E | 70 | 6N | 73 | 15E | 693372 | 24457 | 133 | 5 | 10 | 18 | ND | ND | ND | ND | 2.205 | |
| 24 | 5 | 5 | 56.820 | 69 | 38.13N | 74 | 43.00E | 69 | 59N | 73 | 39E | 692693 | 24459 | 133 | 27 | 10 | 28 | ND | ND | ND | ND | 2.319 | |
| 25 | 5 | 5 | 59.472 | 69 | 30.79N | 75 | 5.03E | 69 | 52N | 74 | 1E | 692030 | 24461 | 133 | 49 | 10 | 39 | ND | ND | ND | ND | 2.370 | |
| 26 | 5 | 6 | 2.096 | 69 | 23.48N | 75 | 26.58E | 69 | 44N | 74 | 24E | 691376 | 24462 | 134 | 10 | 10 | 49 | ND | ND | ND | ND | 2.395 | |
| 27 | 5 | 6 | 4.717 | 69 | 16.13N | 75 | 47.85E | 69 | 37N | 74 | 46E | 690723 | 24464 | 134 | 32 | 10 | 59 | ND | ND | ND | ND | 2.397 | |
| 28 | 5 | 6 | 7.312 | 69 | 8.81N | 76 | 29.22E | 69 | 30N | 75 | 7E | 689437 | 24465 | 134 | 52 | 11 | 10 | ND | ND | ND | ND | 2.421 | |
| 29 | 5 | 6 | 9.901 | 69 | 1.46N | 76 | 49.33E | 69 | 16N | 75 | 29E | 689079 | 24467 | 135 | 13 | 11 | 20 | ND | ND | ND | ND | 2.426 | |
| 30 | 5 | 6 | 12.466 | 68 | 54.14N | 76 | 2.92E | 69 | 9N | 75 | 49E | 688802 | 24468 | 135 | 33 | 11 | 30 | ND | ND | ND | ND | 2.451 | |
| 31 | 5 | 6 | 15.040 | 68 | 46.75N | 77 | 9.29E | 69 | 8N | 76 | 10E | 688167 | 24470 | 135 | 52 | 11 | 40 | ND | ND | ND | ND | 2.440 | |
| 32 | 5 | 6 | 17.615 | 68 | 39.31N | 77 | 29.03E | 69 | 1N | 76 | 31E | 687533 | 24471 | 136 | 12 | 11 | 50 | ND | ND | ND | ND | 2.440 | |
| 33 | 5 | 6 | 20.181 | 68 | 31.86N | 77 | 48.47E | 68 | 54N | 76 | 51E | 686903 | 24472 | 136 | 31 | 12 | 0 | ND | ND | ND | ND | 2.450 | |
| 34 | 5 | 6 | 22.740 | 68 | 24.39N | 78 | 7.65E | 68 | 46N | 77 | 11E | 686275 | 24474 | 136 | 50 | 12 | 11 | ND | ND | ND | ND | 2.454 | |
| 35 | 5 | 6 | 25.296 | 68 | 16.89N | 78 | 26.59E | 68 | 39N | 77 | 7E | 685649 | 24475 | 137 | 9 | 12 | 21 | ND | ND | ND | ND | 2.459 | |
| 36 | 5 | 6 | 27.847 | 68 | 9.36N | 78 | 45.28E | 68 | 31N | 77 | 50E | 685026 | 24477 | 137 | 28 | 12 | 31 | ND | ND | ND | ND | 2.463 | |
| 37 | 5 | 6 | 30.400 | 68 | 1.79N | 79 | 3.78E | 68 | 24N | 78 | 9E | 684404 | 24478 | 137 | 46 | 12 | 41 | ND | ND | ND | ND | 2.460 | |
| 38 | 5 | 6 | 32.940 | 67 | 54.23N | 79 | 21.98E | 68 | 16N | 78 | 28E | 683787 | 24480 | 138 | 4 | 12 | 51 | ND | ND | ND | ND | 2.474 | |
| 39 | 5 | 6 | 35.476 | 67 | 46.64N | 79 | 39.93E | 68 | 9N | 78 | 46E | 683172 | 24481 | 138 | 22 | 13 | 1 | ND | ND | ND | ND | 2.479 | |
| 40 | 5 | 6 | 38.016 | 67 | 39.00N | 79 | 57.73E | 68 | 1N | 79 | 5E | 682557 | 24483 | 138 | 40 | 13 | 11 | ND | ND | ND | ND | 2.474 | |
| 41 | 5 | 6 | 40.551 | 67 | 31.34N | 80 | 15.29E | 67 | 54N | 79 | 23E | 681946 | 24484 | 138 | 57 | 13 | 21 | ND | ND | ND | ND | 2.479 | |
| 42 | 5 | 6 | 43.080 | 67 | 23.66N | 80 | 32.62E | 67 | 46N | 79 | 41E | 681336 | 24485 | 139 | 14 | 13 | 31 | ND | ND | ND | ND | 2.483 | |
| 43 | 5 | 6 | 45.601 | 67 | 15.98N | 80 | 49.70E | 67 | 39N | 79 | 58E | 680731 | 24487 | 139 | 31 | 13 | 41 | ND | ND | ND | ND | 2.493 | |
| 44 | 5 | 6 | 48.125 | 67 | 8.26N | 81 | 6.62E | 67 | 31N | 80 | 16E | 680125 | 24488 | 139 | 48 | 13 | 51 | ND | ND | ND | ND | 2.488 | |
| 45 | 5 | 6 | 50.646 | 67 | 0.51N | 81 | 23.32E | 67 | 23N | 80 | 33E | 679522 | 24490 | 140 | 4 | 14 | 1 | ND | ND | ND | ND | 2.493 | |

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

TOP SECRET

HANDLE VIA

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

| FRM | 2 TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCALE | | | | | | | | | |
|-------|--------|------|--------|-------|--------|--------|----------|--------|---------|--------|---------|---------|---------|-------|-----|----|----|----|----|----|----|----|-------|
| HR MI | SEC | MILS | LAT | LONG | MIN | DEG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RAT | | | | | | | | | |
| 46 | 5 | 6 | 53.160 | 2515 | 66 | 52.75N | 81 | 39.81E | 67 | 15N | 80 | 50E | 678922 | 24491 | 140 | 21 | 14 | 11 | ND | ND | ND | ND | 2.498 |
| 47 | 5 | 6 | 55.666 | 2506 | 66 | 44.99N | 81 | 56.06E | 67 | 8N | 81 | 7E | 678325 | 24492 | 140 | 37 | 14 | 21 | ND | ND | ND | ND | 2.507 |
| 48 | 5 | 6 | 58.181 | 2514 | 66 | 37.16N | 82 | 12.19E | 67 | 0N | 81 | 24E | 677128 | 24494 | 140 | 53 | 14 | 31 | ND | ND | ND | ND | 2.499 |
| 49 | 5 | 7 | 0.686 | 2505 | 66 | 29.34N | 82 | 28.08E | 66 | 52N | 81 | 40E | 676544 | 24495 | 141 | 8 | 14 | 40 | ND | ND | ND | ND | 2.508 |
| 50 | 5 | 7 | 3.186 | 2500 | 66 | 21.51N | 82 | 43.78E | 66 | 45N | 81 | 56E | 675367 | 24498 | 141 | 39 | 15 | 15 | ND | ND | ND | ND | 2.513 |
| 51 | 5 | 7 | 5.681 | 2495 | 66 | 13.66N | 82 | 59.27E | 66 | 37N | 82 | 12E | 675955 | 24498 | 141 | 39 | 15 | 15 | ND | ND | ND | ND | 2.518 |
| 52 | 5 | 7 | 8.181 | 2500 | 66 | 5.77N | 83 | 14.63E | 66 | 29N | 82 | 28E | 675367 | 24499 | 141 | 55 | 15 | 10 | ND | ND | ND | ND | 2.513 |
| 53 | 5 | 7 | 10.671 | 2490 | 65 | 57.88N | 83 | 29.77E | 66 | 21N | 82 | 44E | 674783 | 24501 | 142 | 10 | 15 | 20 | ND | ND | ND | ND | 2.523 |
| 54 | 5 | 7 | 13.160 | 2490 | 65 | 49.97N | 83 | 44.73E | 66 | 13N | 82 | 59E | 674200 | 24502 | 142 | 24 | 15 | 30 | ND | ND | ND | ND | 2.523 |
| 55 | 5 | 7 | 15.646 | 2485 | 65 | 42.04N | 83 | 59.52E | 66 | 5N | 83 | 15E | 673620 | 24503 | 142 | 39 | 15 | 39 | ND | ND | ND | ND | 2.528 |
| 56 | 5 | 7 | 18.131 | 2485 | 65 | 34.09N | 84 | 14.15E | 65 | 57N | 83 | 30E | 673041 | 24505 | 142 | 53 | 15 | 49 | ND | ND | ND | ND | 2.528 |
| 57 | 5 | 7 | 20.610 | 2480 | 65 | 26.13N | 84 | 28.60E | 65 | 50N | 83 | 45E | 672465 | 24506 | 143 | 8 | 15 | 59 | ND | ND | ND | ND | 2.534 |
| 58 | 5 | 7 | 23.085 | 2475 | 65 | 18.16N | 84 | 42.86E | 65 | 42N | 84 | 0E | 671891 | 24507 | 143 | 22 | 16 | 19 | ND | ND | ND | ND | 2.539 |
| 59 | 5 | 7 | 25.561 | 2475 | 65 | 10.16N | 84 | 56.98E | 65 | 34N | 84 | 14E | 671320 | 24509 | 143 | 36 | 16 | 19 | ND | ND | ND | ND | 2.539 |
| 60 | 5 | 7 | 28.030 | 2470 | 65 | 2.15N | 85 | 10.93E | 65 | 26N | 84 | 29E | 670750 | 24510 | 143 | 49 | 16 | 28 | ND | ND | ND | ND | 2.544 |
| 61 | 5 | 7 | 30.496 | 2466 | 64 | 54.14N | 85 | 24.70E | 65 | 18N | 84 | 43E | 670183 | 24511 | 144 | 3 | 16 | 38 | ND | ND | ND | ND | 2.548 |
| 62 | 5 | 7 | 32.966 | 2466 | 64 | 46.09N | 85 | 38.36E | 65 | 10N | 84 | 57E | 669617 | 24513 | 144 | 17 | 16 | 48 | ND | ND | ND | ND | 2.545 |
| 63 | 5 | 7 | 35.426 | 2460 | 64 | 38.05N | 85 | 51.82E | 65 | 2N | 85 | 11E | 669054 | 24514 | 144 | 30 | 16 | 58 | ND | ND | ND | ND | 2.554 |
| 64 | 5 | 7 | 37.886 | 2460 | 64 | 29.98N | 86 | 5.14E | 65 | 54N | 85 | 25E | 668493 | 24515 | 144 | 43 | 17 | 7 | ND | ND | ND | ND | 2.554 |
| 65 | 5 | 7 | 40.346 | 2460 | 64 | 21.90N | 86 | 18.33E | 64 | 46N | 85 | 38E | 667933 | 24517 | 144 | 56 | 17 | 17 | ND | ND | ND | ND | 2.554 |
| 66 | 5 | 7 | 42.796 | 2450 | 64 | 13.82N | 86 | 31.34E | 64 | 38N | 85 | 52E | 667377 | 24518 | 145 | 9 | 17 | 27 | ND | ND | ND | ND | 2.565 |
| 67 | 5 | 7 | 45.245 | 2450 | 64 | 5.73N | 86 | 44.20E | 64 | 30N | 86 | 5E | 666823 | 24519 | 145 | 21 | 17 | 36 | ND | ND | ND | ND | 2.565 |
| 68 | 5 | 7 | 47.696 | 2451 | 63 | 57.60N | 86 | 56.95E | 64 | 22N | 86 | 18E | 666270 | 24520 | 145 | 34 | 17 | 46 | ND | ND | ND | ND | 2.565 |
| 69 | 5 | 7 | 50.146 | 2449 | 63 | 49.47N | 87 | 9.56E | 64 | 13N | 86 | 31E | 665719 | 24522 | 145 | 46 | 17 | 56 | ND | ND | ND | ND | 2.564 |
| 70 | 5 | 7 | 52.585 | 2436 | 63 | 41.34N | 87 | 21.99E | 64 | 5N | 86 | 44E | 665171 | 24523 | 145 | 59 | 18 | 5 | ND | ND | ND | ND | 2.566 |
| 71 | 5 | 7 | 55.021 | 2436 | 63 | 33.21N | 87 | 34.29E | 63 | 57N | 86 | 57E | 664626 | 24524 | 146 | 11 | 18 | 15 | ND | ND | ND | ND | 2.575 |
| 72 | 5 | 7 | 57.460 | 2439 | 63 | 25.05N | 87 | 46.48E | 63 | 49N | 87 | 9E | 664081 | 24526 | 146 | 23 | 18 | 25 | ND | ND | ND | ND | 2.579 |
| 73 | 5 | 7 | 59.896 | 2435 | 63 | 16.88N | 87 | 58.52E | 63 | 41N | 87 | 22E | 663540 | 24527 | 146 | 35 | 18 | 34 | ND | ND | ND | ND | 2.576 |
| 74 | 5 | 8 | 2.325 | 2430 | 63 | 8.71N | 88 | 10.43E | 63 | 33N | 87 | 34E | 663000 | 24528 | 146 | 46 | 18 | 44 | ND | ND | ND | ND | 2.580 |
| 75 | 5 | 8 | 4.750 | 2425 | 63 | 0.53N | 88 | 22.19E | 63 | 25N | 87 | 46E | 662464 | 24529 | 146 | 58 | 18 | 53 | ND | ND | ND | ND | 2.586 |
| 76 | 5 | 8 | 7.177 | 2426 | 62 | 52.34N | 88 | 33.85E | 63 | 17N | 87 | 58E | 661928 | 24531 | 147 | 9 | 19 | 3 | ND | ND | ND | ND | 2.591 |
| 77 | 5 | 8 | 9.601 | 2424 | 62 | 44.13N | 88 | 45.38E | 63 | 8N | 88 | 10E | 661395 | 24532 | 147 | 21 | 19 | 13 | ND | ND | ND | ND | 2.590 |
| 78 | 5 | 8 | 12.021 | 2420 | 62 | 35.92N | 88 | 56.78E | 63 | 0N | 88 | 22E | 660864 | 24533 | 147 | 32 | 19 | 22 | ND | ND | ND | ND | 2.592 |
| 79 | 5 | 8 | 14.436 | 2415 | 62 | 27.71N | 89 | 8.05E | 62 | 52N | 88 | 33E | 660335 | 24534 | 147 | 43 | 19 | 32 | ND | ND | ND | ND | 2.596 |
| 80 | 5 | 8 | 16.855 | 2420 | 62 | 19.46N | 89 | 19.23E | 62 | 44N | 88 | 45E | 659808 | 24536 | 147 | 54 | 19 | 41 | ND | ND | ND | ND | 2.602 |
| 81 | 5 | 8 | 19.266 | 2410 | 62 | 11.24N | 89 | 30.27E | 62 | 36N | 88 | 56E | 659284 | 24537 | 148 | 5 | 19 | 51 | ND | ND | ND | ND | 2.596 |
| 82 | 5 | 8 | 21.681 | 2415 | 62 | 2.97N | 89 | 41.22E | 62 | 27N | 89 | 7E | 658760 | 24538 | 148 | 16 | 20 | 0 | ND | ND | ND | ND | 2.602 |
| 83 | 5 | 8 | 24.085 | 2405 | 61 | 54.73N | 89 | 52.02E | 62 | 19N | 89 | 19E | 658240 | 24539 | 148 | 26 | 20 | 10 | ND | ND | ND | ND | 2.607 |
| 84 | 5 | 8 | 26.490 | 2405 | 61 | 46.47N | 90 | 2.72E | 62 | 11N | 89 | 30E | 657722 | 24540 | 148 | 37 | 20 | 19 | ND | ND | ND | ND | 2.613 |
| 85 | 5 | 8 | 28.892 | 2400 | 61 | 38.21N | 90 | 13.30E | 62 | 3N | 89 | 40E | 657206 | 24542 | 148 | 47 | 20 | 29 | ND | ND | ND | ND | 2.613 |
| 86 | 5 | 8 | 31.291 | 2400 | 61 | 29.94N | 90 | 23.70E | 61 | 54N | 89 | 51E | 656692 | 24543 | 148 | 57 | 20 | 38 | ND | ND | ND | ND | 2.617 |
| 87 | 5 | 8 | 33.698 | 2399 | 61 | 21.65N | 90 | 34.15E | 61 | 46N | 90 | 2E | 656179 | 24544 | 149 | 7 | 20 | 48 | ND | ND | ND | ND | 2.618 |
| 88 | 5 | 8 | 36.085 | 2395 | 61 | 13.36N | 90 | 44.42E | 61 | 38N | 90 | 13E | 655670 | 24545 | 149 | 18 | 20 | 57 | ND | ND | ND | ND | 2.619 |
| 89 | 5 | 8 | 38.476 | 2390 | 61 | 5.07N | 90 | 54.57E | 61 | 30N | 90 | 23E | 655163 | 24546 | 149 | 27 | 21 | 7 | ND | ND | ND | ND | 2.623 |
| 90 | 5 | 9 | 25.457 | 46982 | 58 | 19.47N | 93 | 56.63E | 58 | 44N | 93 | 30E | 645525 | 24569 | 152 | 25 | 24 | 12 | ND | ND | ND | ND | 0.134 |

TOP SECRET

HANDLE VIA

PASS 1010 AFI 4MAR65

FRAME EPHEMERIS MISSION 1017-2

ID 43

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Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

| FRM | 2 TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|--------|----------|--------|-----------|------------|----------------|----------|-------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILS | LAT | DEG MIN | LAT | MIN DEG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 91 | 5 | 9 28.610 | 3153 | 58 8.18N | 94 7.77E | 58 33N 93 42E | 644901 | 24570 | 152 36 | 24 25 | ND | ND | ND | 1.993 |
| 92 | 5 | 9 31.250 | 2640 | 57 58.72N | 94 16.99E | 58 24N 93 51E | 644382 | 24572 | 152 45 | 24 35 | ND | ND | ND | 2.380 |
| 93 | 5 | 9 33.746 | 2496 | 57 49.76N | 94 25.63E | 58 15N 94 0E | 643893 | 24573 | 152 53 | 24 45 | ND | ND | ND | 2.517 |
| 94 | 5 | 9 36.166 | 2420 | 57 41.07N | 94 33.94E | 58 6N 94 9E | 643428 | 24574 | 153 1 | 24 54 | ND | ND | ND | 2.596 |
| 95 | 5 | 9 38.535 | 2369 | 57 32.54N | 94 42.00E | 57 57N 94 17E | 642958 | 24575 | 153 9 | 25 4 | ND | ND | ND | 2.652 |
| 96 | 5 | 9 40.905 | 2370 | 57 24.00N | 94 50.00E | 57 49N 94 25E | 642499 | 24576 | 153 17 | 25 13 | ND | ND | ND | 2.651 |
| 97 | 5 | 9 43.266 | 2360 | 57 15.49N | 94 57.91E | 57 40N 94 33E | 642044 | 24577 | 153 24 | 25 22 | ND | ND | ND | 2.662 |
| 98 | 5 | 9 45.616 | 2351 | 57 7.00N | 95 5.71E | 57 32N 94 41E | 641591 | 24578 | 153 32 | 25 32 | ND | ND | ND | 2.673 |
| 99 | 5 | 9 47.966 | 2349 | 56 58.51N | 95 13.45E | 57 23N 94 49E | 641141 | 24579 | 153 39 | 25 41 | ND | ND | ND | 2.675 |
| 100 | 5 | 9 50.311 | 2345 | 56 50.02N | 95 21.11E | 57 15N 94 57E | 640693 | 24580 | 153 47 | 25 50 | ND | ND | ND | 2.679 |
| 101 | 5 | 9 52.650 | 2340 | 56 41.54N | 95 28.69E | 57 7N 95 5E | 640249 | 24581 | 153 54 | 25 59 | ND | ND | ND | 2.685 |
| 102 | 5 | 9 54.985 | 2335 | 56 33.07N | 95 36.20E | 56 58N 95 12E | 639807 | 24582 | 154 1 | 26 9 | ND | ND | ND | 2.691 |
| 103 | 5 | 9 57.320 | 2335 | 56 24.59N | 95 43.64E | 56 50N 95 20E | 639366 | 24583 | 154 9 | 26 18 | ND | ND | ND | 2.697 |
| 104 | 5 | 9 59.650 | 2330 | 56 16.12N | 95 51.01E | 56 41N 95 28E | 638928 | 24584 | 154 16 | 26 27 | ND | ND | ND | 2.702 |
| 105 | 5 | 1 1.980 | 2330 | 56 7.64N | 95 58.33E | 56 33N 95 35E | 638492 | 24585 | 154 23 | 26 36 | ND | ND | ND | 2.697 |
| 106 | 5 | 1 4.306 | 2325 | 55 59.17N | 96 5.57E | 56 24N 95 43E | 638059 | 24586 | 154 30 | 26 45 | ND | ND | ND | 2.702 |
| 107 | 5 | 1 6.625 | 2320 | 55 50.71N | 96 12.74E | 56 16N 95 50E | 637628 | 24587 | 154 37 | 26 54 | ND | ND | ND | 2.708 |
| 108 | 5 | 1 8.950 | 2325 | 55 42.23N | 96 19.87E | 56 7N 95 57E | 637198 | 24589 | 154 43 | 27 4 | ND | ND | ND | 2.702 |
| 109 | 5 | 1 11.271 | 2320 | 55 33.75N | 96 26.92E | 55 59N 96 4E | 636778 | 24590 | 154 50 | 27 13 | ND | ND | ND | 2.708 |
| 110 | 5 | 1 13.585 | 2315 | 55 25.28N | 96 33.91E | 55 50N 96 12E | 636346 | 24591 | 154 57 | 27 22 | ND | ND | ND | 2.714 |
| 111 | 5 | 1 15.900 | 2315 | 55 16.81N | 96 40.85E | 55 42N 96 19E | 635924 | 24592 | 155 4 | 27 31 | ND | ND | ND | 2.714 |
| 112 | 5 | 1 18.216 | 2315 | 55 8.32N | 96 47.73E | 55 33N 96 26E | 635503 | 24592 | 155 10 | 27 40 | ND | ND | ND | 2.714 |
| 113 | 5 | 1 20.525 | 2310 | 54 59.85N | 96 54.55E | 55 25N 96 33E | 635084 | 24593 | 155 17 | 27 49 | ND | ND | ND | 2.720 |
| 114 | 5 | 1 22.835 | 2310 | 54 51.37N | 97 1.31E | 55 16N 96 40E | 634667 | 24594 | 155 23 | 27 58 | ND | ND | ND | 2.720 |
| 115 | 5 | 1 25.141 | 2305 | 54 42.09N | 97 8.01E | 55 8N 96 47E | 634253 | 24595 | 155 30 | 28 7 | ND | ND | ND | 2.726 |
| 116 | 5 | 1 27.441 | 2301 | 54 34.43N | 97 14.64E | 55 0N 96 53E | 633841 | 24596 | 155 36 | 28 17 | ND | ND | ND | 2.731 |
| 117 | 5 | 1 29.745 | 2300 | 54 25.95N | 97 21.24E | 54 51N 97 0E | 633432 | 24597 | 155 42 | 28 26 | ND | ND | ND | 2.727 |
| 118 | 5 | 1 32.046 | 2300 | 54 17.47N | 97 27.78E | 54 43N 97 7E | 633024 | 24598 | 155 48 | 28 35 | ND | ND | ND | 2.732 |
| 119 | 5 | 1 34.346 | 2300 | 54 8.99N | 97 34.26E | 54 34N 97 13E | 632618 | 24599 | 155 55 | 28 44 | ND | ND | ND | 2.732 |
| 120 | 5 | 1 36.646 | 2300 | 54 0.50N | 97 40.70E | 54 26N 97 20E | 632214 | 24600 | 156 1 | 28 53 | ND | ND | ND | 2.732 |
| 121 | 5 | 1 38.946 | 74220 | 23 23.37N | 110 29.62E | 23 49N 110 22E | 595586 | 24689 | 166 51 | 59 13 | ND | ND | ND | 0.013 |
| 122 | 5 | 1 33.937 | 3071 | 23 11.17N | 110 32.70E | 23 36N 110 25E | 595698 | 24680 | 166 53 | 59 24 | ND | ND | ND | 2.046 |
| 123 | 5 | 1 36.421 | 2484 | 23 1.31N | 110 35.18E | 23 23N 110 27E | 595792 | 24688 | 166 55 | 59 33 | ND | ND | ND | 2.529 |
| 124 | 5 | 1 38.771 | 2350 | 22 51.98N | 110 37.52E | 23 17N 110 30E | 595883 | 24688 | 166 56 | 59 41 | ND | ND | ND | 2.674 |
| 125 | 5 | 1 41.065 | 2275 | 22 42.86N | 110 39.80E | 23 8N 110 32E | 595975 | 24688 | 166 57 | 59 49 | ND | ND | ND | 2.738 |
| 126 | 5 | 1 43.335 | 2270 | 22 33.85N | 110 42.05E | 22 59N 110 34E | 596069 | 24687 | 166 59 | 59 57 | ND | ND | ND | 2.768 |
| 127 | 5 | 1 45.596 | 2260 | 22 24.87N | 110 44.28E | 22 50N 110 36E | 596165 | 24687 | 167 0 | 60 5 | ND | ND | ND | 2.780 |
| 128 | 5 | 1 47.851 | 2255 | 22 15.91N | 110 46.50E | 22 41N 110 39E | 596264 | 24687 | 167 1 | 60 14 | ND | ND | ND | 2.786 |
| 129 | 5 | 1 50.101 | 2250 | 22 6.97N | 110 48.71E | 22 32N 110 41E | 596364 | 24687 | 167 3 | 60 21 | ND | ND | ND | 2.793 |
| 130 | 5 | 1 52.351 | 2250 | 21 58.03N | 110 50.92E | 22 23N 110 43E | 596468 | 24687 | 167 4 | 60 30 | ND | ND | ND | 2.793 |
| 131 | 5 | 1 54.596 | 2245 | 21 49.11N | 110 53.11E | 22 14N 110 45E | 596574 | 24686 | 167 5 | 60 38 | ND | ND | ND | 2.799 |
| 132 | 5 | 1 56.841 | 2245 | 21 40.19N | 110 55.30E | 22 5N 110 47E | 596683 | 24686 | 167 6 | 60 46 | ND | ND | ND | 2.799 |
| 133 | 5 | 1 59.085 | 2245 | 21 31.27N | 110 57.48E | 21 57N 110 50E | 596794 | 24686 | 167 8 | 60 53 | ND | ND | ND | 2.799 |
| 134 | 5 | 1 51.330 | 2245 | 21 22.34N | 110 59.66E | 21 48N 110 52E | 596908 | 24686 | 167 9 | 61 1 | ND | ND | ND | 2.799 |
| 135 | 5 | 1 53.570 | 2240 | 21 13.44N | 111 1.83E | 21 39N 110 54E | 597025 | 24685 | 167 10 | 61 9 | ND | ND | ND | 2.805 |

TOP SECRET

HANDLE VIA

| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | DEG | DEG | MI | DEG | MI | PITCH | DEG | ROLL | DEG | YAW | DEG | SCAL |
|------|-----|----|--------|--------|-----|--------|-------|--------|-----|--------|--------|------|----------|-------|-----|-----|------|-----|----|-------|-----|------|-----|-----|-------|------|
| 101D | AFT | | | 4MAR65 | | CAMERA | NADIR | | | FORMAT | CENTER | | FEET | F/S | MI | MI | SUN/ | | | MIN | MIN | MIN | MIN | MIN | MIN | 100 |
| 136 | 5 | 19 | 5.815 | 2245 | 21 | 4.51N | 111 | 3.99E | 21 | 30N | 110 | 56E | 597144 | 24685 | 167 | 11 | 61 | 17 | ND | ND | ND | ND | ND | ND | 2.799 | |
| 137 | 5 | 19 | 8.061 | 2245 | 20 | 55.59N | 111 | 6.15E | 21 | 21N | 110 | 58E | 597265 | 24685 | 167 | 12 | 61 | 25 | ND | ND | ND | ND | ND | ND | 2.799 | |
| 138 | 5 | 19 | 10.301 | 2240 | 20 | 46.68N | 111 | 8.30E | 21 | 12N | 111 | 1E | 597390 | 24685 | 167 | 13 | 61 | 33 | ND | ND | ND | ND | ND | ND | 2.805 | |
| 139 | 5 | 19 | 12.540 | 2240 | 20 | 37.77N | 111 | 10.45E | 21 | 3N | 111 | 3E | 597517 | 24684 | 167 | 15 | 61 | 41 | ND | ND | ND | ND | ND | ND | 2.805 | |
| 140 | 5 | 19 | 14.776 | 2236 | 20 | 28.88N | 111 | 12.58E | 20 | 54N | 111 | 5E | 597646 | 24684 | 167 | 16 | 61 | 49 | ND | ND | ND | ND | ND | ND | 2.810 | |
| 141 | 5 | 19 | 17.016 | 2239 | 20 | 19.97N | 111 | 14.72E | 20 | 45N | 111 | 7E | 597713 | 24684 | 167 | 17 | 61 | 57 | ND | ND | ND | ND | ND | ND | 2.806 | |
| 142 | 5 | 19 | 19.256 | 2240 | 20 | 11.06N | 111 | 16.85E | 20 | 36N | 111 | 9E | 597913 | 24683 | 167 | 18 | 62 | 4 | ND | ND | ND | ND | ND | ND | 2.805 | |
| 143 | 5 | 19 | 21.495 | 2240 | 20 | 2.15N | 111 | 18.97E | 20 | 28N | 111 | 11E | 598051 | 24683 | 167 | 19 | 62 | 12 | ND | ND | ND | ND | ND | ND | 2.805 | |
| 144 | 5 | 19 | 23.730 | 2235 | 19 | 53.26N | 111 | 21.08E | 20 | 19N | 111 | 13E | 598191 | 24683 | 167 | 20 | 62 | 20 | ND | ND | ND | ND | ND | ND | 2.811 | |
| 145 | 5 | 19 | 25.971 | 2240 | 19 | 44.35N | 111 | 23.20E | 20 | 10N | 111 | 16E | 598333 | 24682 | 167 | 21 | 62 | 28 | ND | ND | ND | ND | ND | ND | 2.805 | |
| 146 | 5 | 19 | 28.210 | 2240 | 19 | 35.44N | 111 | 25.31E | 20 | 1N | 111 | 18E | 598479 | 24682 | 167 | 22 | 62 | 36 | ND | ND | ND | ND | ND | ND | 2.805 | |
| 147 | 5 | 19 | 30.441 | 2231 | 19 | 26.56N | 111 | 27.40E | 19 | 52N | 111 | 20E | 598626 | 24682 | 167 | 24 | 62 | 43 | ND | ND | ND | ND | ND | ND | 2.816 | |
| 148 | 5 | 19 | 32.681 | 2239 | 19 | 17.65N | 111 | 29.50E | 19 | 43N | 111 | 22E | 598777 | 24681 | 167 | 25 | 62 | 51 | ND | ND | ND | ND | ND | ND | 2.806 | |
| 149 | 5 | 19 | 34.916 | 2236 | 19 | 8.75N | 111 | 31.59E | 19 | 34N | 111 | 24E | 598930 | 24681 | 167 | 26 | 62 | 59 | ND | ND | ND | ND | ND | ND | 2.810 | |
| 150 | 5 | 19 | 37.155 | 2239 | 18 | 59.84N | 111 | 33.68E | 19 | 25N | 111 | 26E | 599086 | 24681 | 167 | 27 | 63 | 7 | ND | ND | ND | ND | ND | ND | 2.806 | |
| 151 | 5 | 19 | 39.391 | 2235 | 18 | 50.95N | 111 | 35.76E | 19 | 16N | 111 | 28E | 599244 | 24680 | 167 | 28 | 63 | 14 | ND | ND | ND | ND | ND | ND | 2.811 | |
| 152 | 5 | 19 | 41.631 | 2240 | 18 | 42.03N | 111 | 37.84E | 19 | 7N | 111 | 30E | 599406 | 24680 | 167 | 29 | 63 | 22 | ND | ND | ND | ND | ND | ND | 2.805 | |
| 153 | 5 | 19 | 43.865 | 2235 | 18 | 33.13N | 111 | 39.91E | 18 | 59N | 111 | 32E | 599569 | 24680 | 167 | 30 | 63 | 30 | ND | ND | ND | ND | ND | ND | 2.811 | |
| 154 | 5 | 19 | 46.102 | 2236 | 18 | 24.23N | 111 | 41.98E | 18 | 50N | 111 | 34E | 599735 | 24679 | 167 | 31 | 63 | 37 | ND | ND | ND | ND | ND | ND | 2.810 | |
| 155 | 5 | 19 | 48.337 | 2235 | 18 | 15.33N | 111 | 44.04E | 18 | 41N | 111 | 37E | 599904 | 24679 | 167 | 32 | 63 | 45 | ND | ND | ND | ND | ND | ND | 2.811 | |
| 156 | 5 | 19 | 50.575 | 2239 | 18 | 6.42N | 111 | 46.10E | 18 | 32N | 111 | 39E | 600076 | 24678 | 167 | 33 | 63 | 53 | ND | ND | ND | ND | ND | ND | 2.806 | |
| 157 | 5 | 19 | 52.812 | 2236 | 17 | 57.52N | 111 | 48.16E | 18 | 23N | 111 | 41E | 600250 | 24678 | 167 | 34 | 64 | 0 | ND | ND | ND | ND | ND | ND | 2.810 | |
| 158 | 5 | 19 | 55.051 | 2239 | 17 | 48.60N | 111 | 50.21E | 18 | 14N | 111 | 43E | 600427 | 24678 | 167 | 35 | 64 | 8 | ND | ND | ND | ND | ND | ND | 2.806 | |
| 159 | 5 | 19 | 57.285 | 2235 | 17 | 39.70N | 111 | 52.25E | 18 | 5N | 111 | 45E | 600607 | 24677 | 167 | 36 | 64 | 15 | ND | ND | ND | ND | ND | ND | 2.811 | |
| 160 | 5 | 19 | 59.525 | 2240 | 17 | 30.78N | 111 | 54.30E | 17 | 56N | 111 | 47E | 600789 | 24677 | 167 | 37 | 64 | 23 | ND | ND | ND | ND | ND | ND | 2.805 | |
| 161 | 5 | 20 | 1.761 | 2235 | 17 | 21.88N | 111 | 56.33E | 17 | 47N | 111 | 49E | 600974 | 24676 | 167 | 38 | 64 | 30 | ND | ND | ND | ND | ND | ND | 2.811 | |
| 162 | 5 | 20 | 3.995 | 2235 | 17 | 12.98N | 111 | 58.36E | 17 | 38N | 111 | 51E | 601162 | 24676 | 167 | 39 | 64 | 38 | ND | ND | ND | ND | ND | ND | 2.811 | |
| 163 | 5 | 20 | 6.235 | 2240 | 17 | 4.05N | 112 | 0.40E | 17 | 30N | 111 | 53E | 601352 | 24676 | 167 | 40 | 64 | 45 | ND | ND | ND | ND | ND | ND | 2.805 | |
| 164 | 5 | 20 | 8.472 | 2236 | 16 | 55.15N | 112 | 2.42E | 17 | 21N | 111 | 55E | 601545 | 24675 | 167 | 40 | 64 | 53 | ND | ND | ND | ND | ND | ND | 2.810 | |

TALENT-KEYHOLE CONTROL ONLY
 SPECIAL HANDLING REQUIRED
 FRAME EPHEMERIS
 MISSION 1017-2
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TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

ICS 84868-64

| FRM | HR | MI | SEC | DTM | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN |
|----------------------|------|-----|--------|--------------|-----|--------|-----|---------------|--------|-----|-----|----------------------------|--------|--------|-------|-------------------|-----|-----|-------|----------|-------|-------|
| PASS 102D AFT 4MAR65 | | | | CAMERA NADIR | | | | FORMAT CENTER | | | | ALTTUDE VELOC AZIMUTH SUN/ | | | | LIST DATE 18MAY65 | | | | PAGE 109 | | |
| 2 TIME | MILS | LAT | LONG | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | RATE |
| 1 | 6 | 36 | 1.010 | 0 | 69 | 6 | 42N | 53 | 34.73E | 69 | 28N | 52 | 34E | 689052 | 24467 | 134 | 59 | 11 | 11 | ND | ND | 1.806 |
| 2 | 6 | 36 | 4.489 | 3480 | 68 | 56.51N | 54 | 2.18E | 69 | 18N | 53 | 2E | 688193 | 24469 | 135 | 26 | 11 | 24 | ND | ND | 1.806 | |
| 3 | 6 | 36 | 7.174 | 2885 | 68 | 48.24N | 54 | 24.62E | 69 | 10N | 53 | 25E | 687484 | 24471 | 135 | 48 | 11 | 36 | ND | ND | 2.178 | |
| 4 | 6 | 36 | 10.100 | 2725 | 68 | 40.38N | 54 | 45.56E | 69 | 2N | 53 | 47E | 686815 | 24472 | 136 | 9 | 11 | 47 | ND | ND | 2.306 | |
| 5 | 6 | 36 | 12.760 | 2660 | 68 | 32.66N | 55 | 5.75E | 68 | 54N | 54 | 8E | 686163 | 24474 | 136 | 29 | 11 | 57 | ND | ND | 2.362 | |
| 6 | 6 | 36 | 15.390 | 2630 | 68 | 24.99N | 55 | 25.49E | 68 | 47N | 54 | 28E | 685521 | 24475 | 136 | 48 | 12 | 8 | ND | ND | 2.389 | |
| 7 | 6 | 36 | 18.000 | 2611 | 68 | 17.33N | 55 | 44.85E | 68 | 39N | 54 | 49E | 684884 | 24477 | 137 | 27 | 12 | 18 | ND | ND | 2.406 | |
| 8 | 6 | 36 | 20.604 | 2604 | 68 | 9.65N | 56 | 3.94E | 68 | 32N | 55 | 8E | 684250 | 24478 | 137 | 27 | 12 | 28 | ND | ND | 2.413 | |
| 9 | 6 | 36 | 23.199 | 2595 | 68 | 1.96N | 56 | 22.75E | 68 | 24N | 55 | 28E | 683620 | 24480 | 137 | 45 | 12 | 38 | ND | ND | 2.421 | |
| 10 | 6 | 36 | 25.792 | 2593 | 67 | 54.24N | 56 | 41.33E | 68 | 16N | 55 | 47E | 682992 | 24481 | 138 | 4 | 12 | 49 | ND | ND | 2.423 | |
| 11 | 6 | 36 | 28.367 | 2575 | 67 | 46.53N | 56 | 59.57E | 68 | 9N | 56 | 6E | 682370 | 24483 | 138 | 22 | 12 | 59 | ND | ND | 2.440 | |
| 12 | 6 | 36 | 30.935 | 2567 | 67 | 38.81N | 57 | 17.56E | 68 | 1N | 56 | 24E | 681751 | 24484 | 138 | 40 | 13 | 9 | ND | ND | 2.448 | |
| 13 | 6 | 36 | 33.510 | 2575 | 67 | 31.03N | 57 | 35.39E | 67 | 53N | 56 | 43E | 681132 | 24486 | 138 | 57 | 13 | 19 | ND | ND | 2.448 | |
| 14 | 6 | 36 | 36.069 | 2560 | 67 | 23.26N | 57 | 52.93E | 67 | 46N | 57 | 1E | 680518 | 24487 | 139 | 15 | 13 | 29 | ND | ND | 2.454 | |
| 15 | 6 | 36 | 38.630 | 2560 | 67 | 15.45N | 58 | 10.27E | 67 | 38N | 57 | 19E | 679925 | 24488 | 139 | 32 | 13 | 39 | ND | ND | 2.454 | |
| 16 | 6 | 36 | 41.185 | 2555 | 67 | 7.63N | 58 | 27.38E | 67 | 30N | 57 | 37E | 679295 | 24490 | 139 | 49 | 13 | 50 | ND | ND | 2.459 | |
| 17 | 6 | 36 | 43.739 | 2555 | 66 | 59.78N | 58 | 44.30E | 67 | 22N | 57 | 54E | 678685 | 24491 | 140 | 6 | 14 | 0 | ND | ND | 2.469 | |
| 18 | 6 | 36 | 46.284 | 2545 | 66 | 51.92N | 59 | 0.97E | 67 | 15N | 58 | 12E | 678081 | 24493 | 140 | 22 | 14 | 10 | ND | ND | 2.469 | |
| 19 | 6 | 36 | 48.829 | 2545 | 66 | 44.03N | 59 | 17.45E | 67 | 7N | 58 | 29E | 677477 | 24494 | 140 | 38 | 14 | 20 | ND | ND | 2.469 | |
| 20 | 6 | 36 | 51.369 | 2540 | 66 | 36.13N | 59 | 33.73E | 66 | 59N | 58 | 45E | 676876 | 24495 | 140 | 55 | 14 | 30 | ND | ND | 2.474 | |
| 21 | 6 | 36 | 53.909 | 2530 | 66 | 28.19N | 59 | 49.82E | 66 | 51N | 59 | 2E | 676277 | 24497 | 141 | 10 | 14 | 40 | ND | ND | 2.474 | |
| 22 | 6 | 36 | 56.439 | 2530 | 66 | 20.26N | 59 | 5.68E | 66 | 43N | 59 | 18E | 675682 | 24498 | 141 | 26 | 14 | 50 | ND | ND | 2.483 | |
| 23 | 6 | 36 | 58.966 | 2526 | 66 | 12.31N | 60 | 21.34E | 66 | 35N | 59 | 35E | 675088 | 24500 | 141 | 42 | 15 | 0 | ND | ND | 2.487 | |
| 24 | 6 | 37 | 1.489 | 2524 | 66 | 4.34N | 60 | 36.82E | 66 | 27N | 59 | 51E | 674498 | 24501 | 141 | 57 | 15 | 10 | ND | ND | 2.489 | |
| 25 | 6 | 37 | 4.011 | 2521 | 65 | 56.35N | 60 | 52.12E | 66 | 20N | 60 | 6E | 673909 | 24502 | 142 | 12 | 15 | 20 | ND | ND | 2.492 | |
| 26 | 6 | 37 | 6.529 | 2519 | 65 | 48.33N | 61 | 7.23E | 66 | 12N | 60 | 22E | 673322 | 24504 | 142 | 27 | 15 | 30 | ND | ND | 2.494 | |
| 27 | 6 | 37 | 9.039 | 2510 | 65 | 40.32N | 61 | 22.13E | 66 | 4N | 60 | 37E | 672738 | 24505 | 142 | 42 | 15 | 40 | ND | ND | 2.503 | |
| 28 | 6 | 37 | 11.550 | 2510 | 65 | 32.28N | 61 | 36.88E | 65 | 56N | 60 | 53E | 672156 | 24506 | 142 | 56 | 15 | 50 | ND | ND | 2.503 | |
| 29 | 6 | 37 | 14.055 | 2505 | 65 | 24.24N | 61 | 51.44E | 65 | 48N | 61 | 8E | 671577 | 24508 | 143 | 11 | 15 | 59 | ND | ND | 2.508 | |
| 30 | 6 | 37 | 16.560 | 2505 | 65 | 16.16N | 62 | 5.85E | 65 | 40N | 61 | 23E | 670999 | 24509 | 143 | 25 | 16 | 9 | ND | ND | 2.513 | |
| 31 | 6 | 37 | 19.060 | 2500 | 65 | 8.08N | 62 | 20.07E | 65 | 32N | 61 | 37E | 670424 | 24510 | 143 | 39 | 16 | 19 | ND | ND | 2.518 | |
| 32 | 6 | 37 | 21.555 | 2495 | 64 | 59.99N | 62 | 34.12E | 65 | 24N | 61 | 52E | 669852 | 24512 | 143 | 53 | 16 | 29 | ND | ND | 2.518 | |
| 33 | 6 | 37 | 24.050 | 2495 | 64 | 51.87N | 62 | 48.03E | 65 | 15N | 62 | 6E | 669281 | 24513 | 144 | 7 | 16 | 39 | ND | ND | 2.518 | |
| 34 | 6 | 37 | 26.539 | 2490 | 64 | 43.75N | 63 | 1.75E | 65 | 7N | 62 | 20E | 668713 | 24514 | 144 | 20 | 16 | 49 | ND | ND | 2.523 | |
| 35 | 6 | 37 | 29.029 | 2490 | 64 | 35.61N | 63 | 15.34E | 64 | 59N | 62 | 34E | 668146 | 24516 | 144 | 34 | 16 | 59 | ND | ND | 2.523 | |
| 36 | 6 | 37 | 31.510 | 2485 | 64 | 27.47N | 63 | 28.74E | 64 | 51N | 62 | 48E | 667583 | 24517 | 144 | 47 | 17 | 8 | ND | ND | 2.528 | |
| 37 | 6 | 37 | 33.994 | 2485 | 64 | 19.29N | 63 | 42.01E | 64 | 43N | 63 | 2E | 667020 | 24518 | 145 | 0 | 17 | 18 | ND | ND | 2.528 | |
| 38 | 6 | 37 | 36.475 | 2480 | 64 | 11.11N | 63 | 55.14E | 64 | 35N | 63 | 16E | 666461 | 24520 | 145 | 13 | 17 | 28 | ND | ND | 2.534 | |
| 39 | 6 | 39 | 34.814 | 18340 | 57 | 20.22N | 72 | 13.09E | 57 | 45N | 71 | 48E | 664161 | 24578 | 153 | 20 | 25 | 16 | ND | ND | 2.534 | |
| 40 | 6 | 39 | 37.980 | 3166 | 57 | 8.79N | 72 | 23.64E | 57 | 34N | 71 | 59E | 664056 | 24580 | 153 | 39 | 25 | 28 | ND | ND | 1.985 | |
| 41 | 6 | 39 | 40.630 | 2649 | 56 | 59.21N | 72 | 32.38E | 57 | 24N | 72 | 8E | 640568 | 24580 | 153 | 39 | 25 | 39 | ND | ND | 2.372 | |
| 42 | 6 | 39 | 43.119 | 2490 | 56 | 50.20N | 72 | 40.51E | 57 | 15N | 72 | 16E | 640096 | 24581 | 153 | 46 | 25 | 49 | ND | ND | 2.523 | |
| 43 | 6 | 39 | 45.544 | 2425 | 56 | 41.42N | 72 | 48.37E | 57 | 6N | 72 | 24E | 639637 | 24582 | 153 | 54 | 25 | 58 | ND | ND | 2.591 | |
| 44 | 6 | 39 | 47.944 | 2400 | 56 | 32.71N | 72 | 56.09E | 56 | 58N | 72 | 32E | 639185 | 24584 | 154 | 1 | 26 | 8 | ND | ND | 2.618 | |
| 45 | 6 | 39 | 50.329 | 2385 | 56 | 24.05N | 73 | 3.69E | 56 | 49N | 72 | 40E | 638738 | 24585 | 154 | 9 | 26 | 17 | ND | ND | 2.634 | |

TOP SECRET

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| FRM | 2 TIME | DTIM | CAMERA | NADR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-----------|-------------|---------|-----------|-----------|---------------|--------|----------|--------|---------|--------|---------|---------|---------|------|
| HR MI SEC | MILS | DEG MIN | DEG LONG | MIN DEG | LONG | FEET | F/S | DEG MI | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RAT |
| 46 | 6 39 52.699 | 2370 | 56 15.43N | 73 11.19E | 56 40N 72 48E | 638295 | 24586 | 154 16 | 26 26 | ND | ND | ND | 2.651 | |
| 47 | 6 39 55.060 | 2360 | 56 6.84N | 73 18.59E | 56 32N 72 55E | 637856 | 24587 | 154 23 | 26 36 | ND | ND | ND | 2.662 | |
| 48 | 6 39 57.414 | 2355 | 55 58.26N | 73 25.92E | 56 23N 73 3E | 637420 | 24588 | 154 30 | 26 45 | ND | ND | ND | 2.668 | |
| 49 | 6 39 59.774 | 2360 | 55 49.65N | 73 33.21E | 56 15N 73 10E | 636983 | 24589 | 154 37 | 26 54 | ND | ND | ND | 2.662 | |
| 50 | 6 40 2.119 | 2345 | 55 41.09N | 73 40.39E | 56 6N 73 18E | 636552 | 24590 | 154 44 | 27 4 | ND | ND | ND | 2.679 | |
| 51 | 6 40 4.465 | 2345 | 55 32.52N | 73 47.52E | 55 58N 73 25E | 636123 | 24591 | 154 51 | 27 13 | ND | ND | ND | 2.679 | |
| 52 | 6 40 6.810 | 2345 | 55 23.94N | 73 54.59E | 55 49N 73 32E | 635696 | 24592 | 154 58 | 27 22 | ND | ND | ND | 2.679 | |
| 53 | 6 40 9.145 | 2335 | 55 15.33N | 74 1.58E | 55 40N 73 40E | 635272 | 24593 | 155 4 | 27 31 | ND | ND | ND | 2.691 | |
| 54 | 6 40 11.479 | 2335 | 55 6.83N | 74 8.51E | 55 32N 73 47E | 634850 | 24594 | 155 11 | 27 41 | ND | ND | ND | 2.691 | |
| 55 | 6 40 13.810 | 2330 | 54 58.29N | 74 15.38E | 55 23N 73 54E | 634430 | 24595 | 155 18 | 27 50 | ND | ND | ND | 2.697 | |
| 56 | 6 40 16.141 | 2331 | 54 49.73N | 74 22.20E | 55 15N 74 1E | 634013 | 24596 | 155 24 | 27 59 | ND | ND | ND | 2.695 | |
| 57 | 6 40 18.470 | 2329 | 54 41.16N | 74 28.96E | 55 6N 74 8E | 633598 | 24597 | 155 31 | 28 8 | ND | ND | ND | 2.698 | |
| 58 | 6 40 20.800 | 2330 | 54 32.59N | 74 35.67E | 54 58N 74 14E | 633184 | 24598 | 155 37 | 28 17 | ND | ND | ND | 2.697 | |
| 59 | 6 40 23.115 | 2316 | 54 24.07N | 74 42.29E | 54 49N 74 21E | 632774 | 24599 | 155 43 | 28 26 | ND | ND | ND | 2.713 | |
| 60 | 6 40 25.435 | 2319 | 54 15.52N | 74 48.87E | 54 41N 74 28E | 632366 | 24600 | 155 50 | 28 36 | ND | ND | ND | 2.709 | |
| 61 | 6 40 27.744 | 2310 | 54 7.00N | 74 55.37E | 54 32N 74 35E | 631961 | 24601 | 155 56 | 28 45 | ND | ND | ND | 2.720 | |
| 62 | 6 40 30.069 | 2325 | 53 58.41N | 75 1.87E | 54 24N 74 41E | 631555 | 24602 | 156 2 | 28 54 | ND | ND | ND | 2.702 | |
| 63 | 6 40 32.369 | 2300 | 53 49.91N | 75 8.25E | 54 15N 74 48E | 631156 | 24602 | 156 8 | 29 3 | ND | ND | ND | 2.732 | |
| 64 | 6 40 34.694 | 2325 | 53 41.31N | 75 14.66E | 54 6N 74 54E | 630754 | 24603 | 156 14 | 29 12 | ND | ND | ND | 2.702 | |
| 65 | 6 40 36.999 | 2305 | 53 32.78N | 75 20.96E | 53 58N 75 1E | 630357 | 24604 | 156 20 | 29 21 | ND | ND | ND | 2.726 | |
| 66 | 6 40 39.305 | 2305 | 53 24.24N | 75 27.22E | 53 49N 75 7E | 629962 | 24605 | 156 26 | 29 30 | ND | ND | ND | 2.726 | |
| 67 | 6 40 41.609 | 2305 | 53 15.70N | 75 33.43E | 53 41N 75 14E | 629569 | 24607 | 156 32 | 29 39 | ND | ND | ND | 2.726 | |
| 68 | 6 40 43.914 | 2305 | 53 7.15N | 75 39.59E | 53 32N 75 20E | 629178 | 24607 | 156 38 | 29 48 | ND | ND | ND | 2.726 | |
| 69 | 6 40 46.215 | 2300 | 52 58.60N | 75 45.71E | 53 24N 75 26E | 628789 | 24608 | 156 44 | 29 58 | ND | ND | ND | 2.732 | |
| 70 | 6 40 48.515 | 2300 | 52 50.05N | 75 51.77E | 53 15N 75 32E | 628403 | 24609 | 156 50 | 30 7 | ND | ND | ND | 2.732 | |
| 71 | 6 40 50.810 | 2295 | 52 41.52N | 75 57.78E | 53 7N 75 38E | 628018 | 24610 | 156 55 | 30 16 | ND | ND | ND | 2.738 | |
| 72 | 6 40 53.104 | 2295 | 52 32.98N | 76 3.75E | 52 58N 75 45E | 627636 | 24611 | 157 1 | 30 25 | ND | ND | ND | 2.738 | |
| 73 | 6 40 55.395 | 2290 | 52 24.45N | 76 9.66E | 52 50N 75 51E | 627257 | 24612 | 157 6 | 30 34 | ND | ND | ND | 2.744 | |
| 74 | 6 40 57.689 | 2295 | 52 15.89N | 76 15.54E | 52 41N 75 57E | 626879 | 24613 | 157 12 | 30 43 | ND | ND | ND | 2.738 | |
| 75 | 6 40 59.979 | 2290 | 52 7.35N | 76 21.37E | 52 32N 76 3E | 626502 | 24613 | 157 18 | 30 52 | ND | ND | ND | 2.744 | |
| 76 | 6 41 2.270 | 2290 | 51 58.80N | 76 27.16E | 52 24N 76 9E | 626129 | 24614 | 157 23 | 31 1 | ND | ND | ND | 2.744 | |
| 77 | 6 41 4.555 | 2285 | 51 50.26N | 76 32.90E | 52 15N 76 14E | 625757 | 24615 | 157 28 | 31 10 | ND | ND | ND | 2.750 | |
| 78 | 6 41 6.835 | 2281 | 51 41.74N | 76 38.59E | 52 7N 76 20E | 625389 | 24616 | 157 34 | 31 19 | ND | ND | ND | 2.755 | |
| 79 | 6 41 9.119 | 2284 | 51 33.19N | 76 44.24E | 51 58N 76 26E | 625022 | 24617 | 157 39 | 31 28 | ND | ND | ND | 2.751 | |
| 80 | 6 41 11.399 | 2280 | 51 24.66N | 76 49.85E | 51 50N 76 32E | 624657 | 24618 | 157 44 | 31 37 | ND | ND | ND | 2.756 | |
| 81 | 6 41 13.680 | 2280 | 51 16.11N | 76 55.42E | 51 41N 76 37E | 624294 | 24619 | 157 50 | 31 46 | ND | ND | ND | 2.756 | |
| 82 | 6 41 15.954 | 2275 | 51 7.59N | 77 0.94E | 51 33N 76 43E | 623934 | 24620 | 157 55 | 31 55 | ND | ND | ND | 2.762 | |
| 83 | 6 41 18.230 | 2275 | 50 59.05N | 77 6.42E | 51 24N 76 49E | 623575 | 24620 | 158 0 | 32 4 | ND | ND | ND | 2.761 | |
| 84 | 6 41 20.506 | 2275 | 50 50.51N | 77 11.87E | 51 16N 76 54E | 623219 | 24621 | 158 5 | 32 13 | ND | ND | ND | 2.762 | |
| 85 | 6 41 22.778 | 2273 | 50 41.97N | 77 17.28E | 51 7N 77 0E | 622865 | 24622 | 158 10 | 32 21 | ND | ND | ND | 2.764 | |
| 86 | 6 41 25.055 | 2276 | 50 33.41N | 77 22.65E | 50 59N 77 5E | 622512 | 24623 | 158 15 | 32 30 | ND | ND | ND | 2.761 | |
| 87 | 6 41 27.319 | 2265 | 50 24.90N | 77 27.97E | 50 50N 77 11E | 622162 | 24624 | 158 20 | 32 39 | ND | ND | ND | 2.774 | |
| 88 | 6 41 29.590 | 2270 | 50 16.35N | 77 33.26E | 50 41N 77 16E | 621814 | 24625 | 158 25 | 32 48 | ND | ND | ND | 2.768 | |
| 89 | 6 41 31.859 | 2270 | 50 7.80N | 77 38.52E | 50 33N 77 21E | 621468 | 24625 | 158 30 | 32 57 | ND | ND | ND | 2.768 | |
| 90 | 6 41 34.124 | 2265 | 49 59.27N | 77 43.73E | 50 24N 77 27E | 621125 | 24626 | 158 35 | 33 6 | ND | ND | ND | 2.774 | |

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| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | AZIMUTH | SUNV | PITCH | ROLL | YAW | SCALE | |
|-----|----|----|--------|-------|-----|--------|-----|--------|-----|-----|-----|------|----------|-------|---------|------|-------|------|-----|-------|------|
| | | | | MILS | | MIN | MIN | MIN | | MIN | MIN | MIN | FEET | F/S | DEG | MI | DEG | MIN | DEG | MIN | RATE |
| 91 | 6 | 41 | 36.390 | 2265 | 49 | 50.73N | 77 | 48.90E | 50 | 16N | 77 | 32E | 620783 | 24627 | 158 | 40 | 33 | 15 | ND | 2.774 | |
| 92 | 6 | 41 | 38.649 | 2260 | 49 | 42.20N | 77 | 54.04E | 50 | 7N | 77 | 37E | 620444 | 24628 | 158 | 44 | 33 | 24 | ND | 2.780 | |
| 93 | 6 | 41 | 40.914 | 2265 | 49 | 33.65N | 77 | 59.15E | 49 | 59N | 77 | 43E | 620107 | 24629 | 158 | 49 | 33 | 33 | ND | 2.774 | |
| 94 | 6 | 41 | 43.180 | 2265 | 49 | 25.09N | 78 | 4.23E | 49 | 50N | 77 | 48E | 619770 | 24629 | 158 | 54 | 33 | 42 | ND | 2.774 | |
| 95 | 6 | 41 | 45.439 | 2260 | 49 | 16.55N | 78 | 9.25E | 49 | 42N | 77 | 53E | 619408 | 24630 | 158 | 59 | 33 | 51 | ND | 2.780 | |
| 96 | 6 | 41 | 47.694 | 2255 | 48 | 8.03N | 78 | 14.25E | 49 | 33N | 77 | 58E | 619107 | 24631 | 159 | 3 | 33 | 59 | ND | 2.786 | |
| 97 | 6 | 41 | 49.954 | 2260 | 48 | 59.48N | 78 | 19.22E | 49 | 25N | 78 | 3E | 618777 | 24632 | 159 | 8 | 34 | 8 | ND | 2.780 | |
| 98 | 6 | 41 | 52.209 | 2255 | 48 | 50.94N | 78 | 24.15E | 49 | 16N | 78 | 8E | 618451 | 24633 | 159 | 12 | 34 | 17 | ND | 2.786 | |
| 99 | 6 | 41 | 54.459 | 2250 | 48 | 42.42N | 78 | 29.04E | 49 | 8N | 78 | 13E | 618127 | 24633 | 159 | 17 | 34 | 26 | ND | 2.793 | |
| 00 | 6 | 41 | 56.715 | 2255 | 48 | 33.87N | 78 | 33.91E | 48 | 59N | 78 | 18E | 617805 | 24634 | 159 | 21 | 34 | 35 | ND | 2.786 | |
| 01 | 6 | 41 | 58.965 | 2250 | 48 | 25.33N | 78 | 38.73E | 48 | 50N | 78 | 23E | 617484 | 24635 | 159 | 26 | 34 | 44 | ND | 2.793 | |
| 02 | 6 | 42 | 1.225 | 2260 | 48 | 16.76N | 78 | 43.55E | 48 | 42N | 78 | 28E | 617165 | 24636 | 159 | 30 | 35 | 53 | ND | 2.780 | |
| 03 | 6 | 42 | 3.470 | 2245 | 48 | 8.24N | 78 | 48.31E | 48 | 33N | 78 | 33E | 616849 | 24636 | 159 | 35 | 35 | 1 | ND | 2.799 | |
| 04 | 6 | 42 | 5.725 | 2255 | 47 | 59.67N | 78 | 53.06E | 48 | 25N | 78 | 38E | 616534 | 24637 | 159 | 39 | 35 | 10 | ND | 2.786 | |
| 05 | 6 | 42 | 7.971 | 2246 | 47 | 51.14N | 78 | 57.76E | 48 | 16N | 78 | 42E | 616223 | 24638 | 159 | 43 | 35 | 19 | ND | 2.798 | |
| 06 | 6 | 42 | 10.220 | 2246 | 47 | 42.58N | 79 | 2.43E | 48 | 8N | 78 | 47E | 615912 | 24639 | 159 | 48 | 35 | 28 | ND | 2.794 | |
| 07 | 6 | 42 | 12.465 | 2245 | 47 | 34.04N | 79 | 7.08E | 47 | 59N | 78 | 52E | 615605 | 24639 | 159 | 52 | 35 | 37 | ND | 2.799 | |
| 08 | 6 | 42 | 14.715 | 2250 | 47 | 25.48N | 79 | 11.70E | 47 | 51N | 78 | 57E | 615299 | 24640 | 159 | 56 | 35 | 46 | ND | 2.793 | |
| 09 | 6 | 42 | 16.959 | 2245 | 47 | 16.93N | 79 | 16.28E | 47 | 42N | 79 | 1E | 614995 | 24641 | 160 | 0 | 35 | 54 | ND | 2.799 | |
| 10 | 6 | 42 | 19.200 | 2249 | 47 | 8.37N | 79 | 20.85E | 47 | 33N | 79 | 6E | 614693 | 24641 | 160 | 5 | 36 | 3 | ND | 2.794 | |
| 11 | 6 | 42 | 21.444 | 2236 | 46 | 59.84N | 79 | 25.36E | 47 | 25N | 79 | 10E | 614399 | 24642 | 160 | 9 | 36 | 12 | ND | 2.810 | |
| 12 | 6 | 42 | 23.694 | 2250 | 46 | 51.26N | 79 | 29.88E | 47 | 16N | 79 | 15E | 614097 | 24643 | 160 | 13 | 36 | 21 | ND | 2.793 | |
| 13 | 6 | 42 | 25.935 | 2240 | 46 | 42.71N | 79 | 34.35E | 47 | 8N | 79 | 20E | 613801 | 24644 | 160 | 17 | 36 | 30 | ND | 2.805 | |
| 14 | 6 | 42 | 28.175 | 2240 | 46 | 34.16N | 79 | 38.79E | 46 | 59N | 79 | 24E | 613508 | 24644 | 160 | 21 | 36 | 38 | ND | 2.805 | |
| 15 | 6 | 42 | 30.414 | 2240 | 46 | 25.61N | 79 | 43.20E | 46 | 51N | 79 | 29E | 613218 | 24645 | 160 | 25 | 36 | 47 | ND | 2.805 | |
| 16 | 6 | 42 | 32.654 | 2240 | 46 | 17.05N | 79 | 47.59E | 46 | 42N | 79 | 33E | 612928 | 24646 | 160 | 29 | 36 | 56 | ND | 2.805 | |
| 17 | 6 | 42 | 34.895 | 2240 | 46 | 8.49N | 79 | 51.96E | 46 | 34N | 79 | 38E | 612641 | 24646 | 160 | 33 | 37 | 5 | ND | 2.805 | |
| 18 | 6 | 42 | 37.135 | 2240 | 45 | 59.92N | 79 | 56.29E | 46 | 25N | 79 | 42E | 612356 | 24647 | 160 | 37 | 37 | 13 | ND | 2.805 | |
| 19 | 6 | 45 | 21.484 | 64350 | 35 | 22.76N | 84 | 19.50E | 35 | 48N | 84 | 9E | 597303 | 24683 | 164 | 23 | 47 | 52 | ND | 0.038 | |
| 120 | 6 | 45 | 24.539 | 3055 | 35 | 10.79N | 84 | 23.57E | 35 | 36N | 84 | 13E | 597140 | 24684 | 164 | 26 | 48 | 4 | ND | 2.057 | |
| 121 | 6 | 45 | 27.034 | 2495 | 35 | 1.01N | 84 | 26.88E | 35 | 26N | 84 | 17E | 597008 | 24684 | 164 | 29 | 48 | 13 | ND | 2.518 | |
| 122 | 6 | 45 | 29.374 | 2340 | 34 | 51.83N | 84 | 29.97E | 35 | 17N | 84 | 20E | 596888 | 24684 | 164 | 31 | 48 | 22 | ND | 2.685 | |
| 123 | 6 | 45 | 31.654 | 2280 | 34 | 42.89N | 84 | 32.97E | 35 | 8N | 84 | 23E | 596773 | 24684 | 164 | 34 | 48 | 31 | ND | 2.756 | |
| 124 | 6 | 45 | 33.914 | 2260 | 34 | 34.02N | 84 | 35.93E | 34 | 59N | 84 | 26E | 596662 | 24685 | 164 | 36 | 48 | 40 | ND | 2.780 | |
| 125 | 6 | 45 | 36.164 | 2250 | 34 | 25.20N | 84 | 38.87E | 34 | 52N | 84 | 29E | 596553 | 24685 | 164 | 38 | 48 | 48 | ND | 2.793 | |
| 126 | 6 | 45 | 38.409 | 2245 | 34 | 16.59N | 84 | 41.78E | 34 | 41N | 84 | 32E | 596448 | 24685 | 164 | 40 | 48 | 57 | ND | 2.799 | |
| 127 | 6 | 45 | 40.649 | 2240 | 34 | 7.59N | 84 | 44.68E | 34 | 33N | 84 | 35E | 596346 | 24686 | 164 | 43 | 49 | 5 | ND | 2.805 | |
| 128 | 6 | 45 | 42.885 | 2235 | 33 | 58.82N | 84 | 47.56E | 34 | 24N | 84 | 38E | 596244 | 24686 | 164 | 45 | 49 | 14 | ND | 2.811 | |
| 129 | 6 | 45 | 45.119 | 2235 | 33 | 50.04N | 84 | 50.42E | 34 | 15N | 84 | 41E | 596148 | 24686 | 164 | 47 | 49 | 22 | ND | 2.811 | |
| 130 | 6 | 45 | 47.354 | 2235 | 33 | 41.26N | 84 | 53.28E | 34 | 6N | 84 | 44E | 596051 | 24686 | 164 | 49 | 49 | 31 | ND | 2.811 | |
| 131 | 6 | 45 | 49.584 | 2230 | 33 | 32.50N | 84 | 56.11E | 33 | 58N | 84 | 46E | 595958 | 24687 | 164 | 52 | 49 | 39 | ND | 2.811 | |
| 132 | 6 | 45 | 51.819 | 2235 | 33 | 23.72N | 84 | 58.95E | 33 | 49N | 84 | 49E | 595868 | 24687 | 164 | 54 | 49 | 48 | ND | 2.811 | |
| 133 | 6 | 45 | 54.055 | 2235 | 33 | 14.93N | 85 | 1.77E | 33 | 40N | 84 | 52E | 595780 | 24687 | 164 | 56 | 49 | 57 | ND | 2.811 | |
| 134 | 6 | 45 | 56.284 | 2230 | 33 | 6.17N | 85 | 4.57E | 33 | 31N | 84 | 55E | 595694 | 24687 | 164 | 58 | 50 | 5 | ND | 2.818 | |
| 135 | 6 | 45 | 58.510 | 2225 | 32 | 57.42N | 85 | 7.36E | 33 | 22N | 84 | 58E | 595611 | 24687 | 165 | 0 | 50 | 14 | ND | 2.824 | |

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| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | MIN | DEG | LONG | DEG | LAT | DEG | MIN | DEG | LONG | DEG | MIN | DEG | ALTITUDE | VELOC | F/S | DEG | MI | DEG | SUN/ | DEG | MI | PITCH | DEG | MIN | DEG | MIN | DEG | MIN | YAW | DEG | MIN | SCAN | RATE |
|------|----|----|--------|------|-----|--------|-----|--------|-----|------|-----|-----|--------|-------|-----|------|-----|-----|-----|----------|-------|-------|-----|----|-----|------|-----|----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
| 136 | 6 | 46 | 0.739 | 2230 | 32 | 48.65N | 85 | 10.14E | 33 | 14N | 85 | 1E | 595530 | 24688 | 165 | 2 | 50 | 22 | ND | ND | ND | 2.818 | | | | | | | | | | | | | | | | | | |
| 137 | 6 | 46 | 2.970 | 2230 | 32 | 39.88N | 85 | 12.91E | 33 | 5N | 85 | 3E | 595452 | 24688 | 165 | 4 | 50 | 31 | ND | ND | ND | 2.818 | | | | | | | | | | | | | | | | | | |
| 138 | 6 | 46 | 5.199 | 2230 | 32 | 31.11N | 85 | 15.67E | 32 | 56N | 85 | 6E | 595375 | 24688 | 165 | 6 | 50 | 39 | ND | ND | ND | 2.818 | | | | | | | | | | | | | | | | | | |
| 139 | 6 | 46 | 7.419 | 2220 | 32 | 22.37N | 85 | 18.40E | 32 | 47N | 85 | 9E | 595302 | 24688 | 165 | 8 | 50 | 47 | ND | ND | ND | 2.818 | | | | | | | | | | | | | | | | | | |
| 140 | 6 | 46 | 9.649 | 2220 | 32 | 13.59N | 85 | 21.14E | 32 | 39N | 85 | 12E | 595230 | 24688 | 165 | 11 | 50 | 56 | ND | ND | ND | 2.818 | | | | | | | | | | | | | | | | | | |
| 141 | 6 | 46 | 11.874 | 2225 | 31 | 4.84N | 85 | 23.88E | 32 | 30N | 85 | 14E | 595162 | 24689 | 165 | 13 | 51 | 4 | ND | ND | ND | 2.824 | | | | | | | | | | | | | | | | | | |
| 142 | 6 | 46 | 14.100 | 2225 | 31 | 56.07N | 85 | 26.57E | 32 | 21N | 85 | 17E | 595096 | 24689 | 165 | 15 | 51 | 13 | ND | ND | ND | 2.824 | | | | | | | | | | | | | | | | | | |
| 143 | 6 | 46 | 16.324 | 2225 | 31 | 47.31N | 85 | 29.27E | 32 | 12N | 85 | 20E | 595032 | 24689 | 165 | 17 | 51 | 21 | ND | ND | ND | 2.824 | | | | | | | | | | | | | | | | | | |
| 144 | 6 | 46 | 18.555 | 2230 | 31 | 38.53N | 85 | 31.97E | 32 | 4N | 85 | 23E | 594970 | 24689 | 165 | 19 | 51 | 30 | ND | ND | ND | 2.818 | | | | | | | | | | | | | | | | | | |
| 0145 | 6 | 46 | 20.779 | 2225 | 31 | 29.77N | 85 | 34.66E | 31 | 55N | 85 | 25E | 594911 | 24689 | 165 | 21 | 51 | 38 | ND | ND | ND | 2.824 | | | | | | | | | | | | | | | | | | |
| 0146 | 6 | 46 | 22.999 | 2220 | 31 | 21.02N | 85 | 37.31E | 31 | 46N | 85 | 28E | 594855 | 24689 | 165 | 23 | 51 | 47 | ND | ND | ND | 2.830 | | | | | | | | | | | | | | | | | | |
| 0147 | 6 | 46 | 25.225 | 2225 | 31 | 12.25N | 85 | 39.98E | 31 | 37N | 85 | 31E | 594802 | 24689 | 165 | 25 | 51 | 55 | ND | ND | ND | 2.824 | | | | | | | | | | | | | | | | | | |
| 0148 | 6 | 46 | 27.444 | 2220 | 31 | 3.58N | 85 | 42.62E | 31 | 29N | 85 | 33E | 594749 | 24690 | 165 | 27 | 52 | 3 | ND | ND | ND | 2.830 | | | | | | | | | | | | | | | | | | |
| 0149 | 6 | 46 | 29.669 | 2225 | 30 | 54.73N | 85 | 45.26E | 31 | 20N | 85 | 36E | 594701 | 24690 | 165 | 28 | 52 | 12 | ND | ND | ND | 2.824 | | | | | | | | | | | | | | | | | | |
| 0150 | 6 | 46 | 31.890 | 2220 | 30 | 45.98N | 85 | 47.89E | 31 | 11N | 85 | 39E | 594654 | 24690 | 165 | 30 | 52 | 20 | ND | ND | ND | 2.830 | | | | | | | | | | | | | | | | | | |
| 0151 | 6 | 46 | 34.109 | 2220 | 30 | 37.22N | 85 | 50.58E | 31 | 2N | 85 | 41E | 594610 | 24690 | 165 | 32 | 52 | 29 | ND | ND | ND | 2.830 | | | | | | | | | | | | | | | | | | |
| 0152 | 6 | 46 | 36.334 | 2225 | 30 | 28.45N | 85 | 53.11E | 30 | 53N | 85 | 44E | 594568 | 24690 | 165 | 34 | 52 | 37 | ND | ND | ND | 2.824 | | | | | | | | | | | | | | | | | | |
| 0153 | 6 | 46 | 38.560 | 2225 | 30 | 19.67N | 85 | 55.72E | 30 | 45N | 85 | 47E | 594528 | 24690 | 165 | 36 | 52 | 45 | ND | ND | ND | 2.824 | | | | | | | | | | | | | | | | | | |
| 0154 | 6 | 46 | 40.779 | 2220 | 30 | 10.91N | 85 | 58.30E | 30 | 36N | 85 | 49E | 594492 | 24690 | 165 | 38 | 52 | 54 | ND | ND | ND | 2.829 | | | | | | | | | | | | | | | | | | |
| 0155 | 6 | 46 | 43.000 | 2221 | 30 | 2.15N | 86 | 0.88E | 30 | 27N | 85 | 52E | 594457 | 24690 | 165 | 40 | 53 | 2 | ND | ND | ND | 2.830 | | | | | | | | | | | | | | | | | | |
| 0156 | 6 | 46 | 45.221 | 2224 | 29 | 53.38N | 86 | 3.45E | 30 | 18N | 85 | 55E | 594396 | 24691 | 165 | 42 | 53 | 11 | ND | ND | ND | 2.825 | | | | | | | | | | | | | | | | | | |
| 0157 | 6 | 46 | 47.444 | 2224 | 29 | 44.61N | 86 | 6.02E | 30 | 10N | 85 | 57E | 594344 | 24691 | 165 | 43 | 53 | 19 | ND | ND | ND | 2.837 | | | | | | | | | | | | | | | | | | |
| 0158 | 6 | 46 | 49.659 | 2215 | 29 | 35.86N | 86 | 8.56E | 30 | 1N | 86 | 0E | 594369 | 24691 | 165 | 45 | 53 | 27 | ND | ND | ND | 2.830 | | | | | | | | | | | | | | | | | | |
| 0159 | 6 | 46 | 51.880 | 2220 | 29 | 27.09N | 86 | 11.10E | 29 | 52N | 86 | 2E | 594344 | 24691 | 165 | 47 | 53 | 36 | ND | ND | ND | 2.824 | | | | | | | | | | | | | | | | | | |
| 0160 | 6 | 46 | 54.104 | 2225 | 29 | 18.31N | 86 | 13.64E | 29 | 43N | 86 | 5E | 594322 | 24691 | 165 | 49 | 53 | 44 | ND | ND | ND | 2.830 | | | | | | | | | | | | | | | | | | |
| 0161 | 6 | 46 | 56.324 | 2220 | 29 | 9.54N | 86 | 16.17E | 29 | 35N | 86 | 7E | 594285 | 24691 | 165 | 51 | 53 | 52 | ND | ND | ND | 2.830 | | | | | | | | | | | | | | | | | | |
| 0162 | 6 | 46 | 58.544 | 2220 | 29 | 0.77N | 86 | 18.68E | 29 | 26N | 86 | 10E | 594270 | 24691 | 165 | 52 | 54 | 1 | ND | ND | ND | 2.830 | | | | | | | | | | | | | | | | | | |
| 0163 | 6 | 47 | 0.765 | 2225 | 28 | 52.00N | 86 | 21.19E | 29 | 17N | 86 | 12E | 594259 | 24691 | 165 | 54 | 54 | 9 | ND | ND | ND | 2.830 | | | | | | | | | | | | | | | | | | |
| 0164 | 6 | 47 | 2.989 | 2225 | 28 | 43.21N | 86 | 23.69E | 29 | 8N | 86 | 15E | 594249 | 24691 | 165 | 56 | 54 | 17 | ND | ND | ND | 2.824 | | | | | | | | | | | | | | | | | | |
| 0165 | 6 | 47 | 5.204 | 2215 | 28 | 34.45N | 86 | 26.18E | 29 | 0N | 86 | 17E | 594241 | 24691 | 165 | 58 | 54 | 26 | ND | ND | ND | 2.837 | | | | | | | | | | | | | | | | | | |
| 0166 | 6 | 47 | 7.425 | 2220 | 28 | 25.68N | 86 | 28.66E | 28 | 51N | 86 | 20E | 594237 | 24691 | 166 | 59 | 54 | 34 | ND | ND | ND | 2.830 | | | | | | | | | | | | | | | | | | |
| 0167 | 6 | 47 | 9.645 | 2220 | 28 | 16.90N | 86 | 31.13E | 28 | 42N | 86 | 22E | 594234 | 24691 | 166 | 3 | 54 | 42 | ND | ND | ND | 2.835 | | | | | | | | | | | | | | | | | | |
| 0168 | 6 | 47 | 11.866 | 2216 | 28 | 8.14N | 86 | 33.59E | 28 | 33N | 86 | 25E | 594235 | 24691 | 166 | 4 | 54 | 50 | ND | ND | ND | 2.825 | | | | | | | | | | | | | | | | | | |
| 0169 | 6 | 47 | 14.084 | 2224 | 27 | 59.35N | 86 | 36.05E | 28 | 24N | 86 | 27E | 594237 | 24691 | 166 | 4 | 54 | 59 | ND | ND | ND | 2.830 | | | | | | | | | | | | | | | | | | |
| 0170 | 6 | 47 | 16.305 | 2220 | 27 | 50.56N | 86 | 38.50E | 28 | 16N | 86 | 30E | 594237 | 24691 | 166 | 6 | 55 | 7 | ND | ND | ND | 2.830 | | | | | | | | | | | | | | | | | | |

TOP SECRET.

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HANDLE WITH
TALENT-KEYHOLE
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TOP SECRET!
SPECIAL HANDLING REQUIRED

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FRAME EPHEMERIS MISSION 1017-2

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| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | DEG | MI | DEG | SUNW | PITCH | ROLL | YAW | SCALE | | | |
|-----|--------|------|--------|-------|--------|--------|----------|--------|-----|-----|-----|------|--------|-------|-----|-------|------|----|-------|
| HR | MI | SEC | MILS | DEG | LAT | LONG | FEET | F/S | DEG | MI | DEG | MI | DEG | MIN | DEG | MIN | RATE | | |
| 1 | 8 | 5 | 10.418 | 0 | 71 | 2.56N | 24 | 34.34E | 71 | 22N | 23 | 20E | 698983 | 24444 | 128 | 41 | 8 | 17 | 1.770 |
| 2 | 8 | 5 | 13.969 | 3550 | 70 | 53.61N | 25 | 8.24E | 71 | 13N | 23 | 55E | 698080 | 24446 | 129 | 14 | 8 | 31 | 1.770 |
| 3 | 8 | 5 | 16.918 | 2950 | 70 | 46.10N | 25 | 36.00E | 71 | 5N | 24 | 24E | 697332 | 24448 | 129 | 42 | 8 | 43 | 2.130 |
| 4 | 8 | 5 | 19.698 | 2780 | 70 | 38.95N | 26 | 1.85E | 70 | 58N | 24 | 50E | 696628 | 24449 | 130 | 8 | 8 | 54 | 2.260 |
| 5 | 8 | 5 | 22.413 | 2715 | 70 | 31.91N | 26 | 26.79E | 70 | 52N | 25 | 16E | 695942 | 24451 | 130 | 32 | 9 | 4 | 2.314 |
| 6 | 8 | 5 | 25.104 | 2690 | 70 | 24.87N | 26 | 51.21E | 70 | 45N | 25 | 42E | 695263 | 24453 | 130 | 57 | 9 | 15 | 2.336 |
| 7 | 8 | 5 | 27.778 | 2675 | 70 | 17.82N | 27 | 15.21E | 70 | 38N | 26 | 6E | 694591 | 24454 | 131 | 21 | 9 | 26 | 2.349 |
| 8 | 8 | 5 | 30.439 | 2661 | 70 | 10.74N | 27 | 38.81E | 70 | 31N | 26 | 31E | 693923 | 24456 | 131 | 44 | 9 | 36 | 2.361 |
| 9 | 8 | 5 | 33.089 | 2649 | 70 | 3.64N | 28 | 2.03E | 70 | 24N | 26 | 55E | 693259 | 24457 | 132 | 7 | 9 | 47 | 2.372 |
| 10 | 8 | 5 | 35.738 | 2650 | 69 | 56.49N | 28 | 24.98E | 70 | 17N | 27 | 19E | 692597 | 24459 | 132 | 30 | 9 | 57 | 2.371 |
| 11 | 8 | 5 | 38.378 | 2640 | 69 | 49.32N | 28 | 47.58E | 70 | 10N | 27 | 42E | 691938 | 24460 | 132 | 52 | 10 | 8 | 2.380 |
| 12 | 8 | 5 | 41.010 | 2631 | 69 | 42.11N | 29 | 9.86E | 70 | 3N | 28 | 5E | 691283 | 24462 | 133 | 15 | 10 | 18 | 2.388 |
| 13 | 8 | 5 | 43.635 | 2625 | 69 | 34.88N | 29 | 31.81E | 69 | 56N | 28 | 28E | 690631 | 24463 | 133 | 36 | 10 | 28 | 2.394 |
| 14 | 8 | 5 | 46.259 | 2624 | 69 | 27.59N | 29 | 53.51E | 69 | 48N | 28 | 50E | 689980 | 24465 | 133 | 58 | 10 | 39 | 2.395 |
| 15 | 8 | 5 | 48.874 | 2616 | 69 | 20.29N | 30 | 14.88E | 69 | 41N | 29 | 13E | 689332 | 24466 | 134 | 19 | 10 | 49 | 2.402 |
| 16 | 8 | 5 | 51.484 | 2610 | 69 | 12.95N | 30 | 35.97E | 69 | 34N | 29 | 34E | 688688 | 24468 | 134 | 40 | 10 | 59 | 2.407 |
| 17 | 8 | 5 | 54.089 | 2604 | 69 | 5.58N | 30 | 56.77E | 69 | 27N | 29 | 56E | 688046 | 24469 | 135 | 1 | 11 | 10 | 2.413 |
| 18 | 8 | 5 | 56.693 | 2605 | 68 | 58.17N | 31 | 17.34E | 69 | 19N | 30 | 17E | 687406 | 24471 | 135 | 21 | 11 | 20 | 2.412 |
| 19 | 8 | 5 | 59.289 | 2596 | 68 | 50.74N | 31 | 37.59E | 69 | 12N | 30 | 38E | 686769 | 24472 | 135 | 41 | 11 | 30 | 2.420 |
| 20 | 8 | 6 | 1.889 | 2599 | 68 | 43.26N | 31 | 57.65E | 69 | 5N | 30 | 59E | 686133 | 24474 | 136 | 1 | 11 | 40 | 2.418 |
| 21 | 8 | 6 | 4.474 | 2585 | 68 | 35.77N | 32 | 17.37E | 68 | 57N | 31 | 19E | 685501 | 24475 | 136 | 21 | 11 | 51 | 2.431 |
| 22 | 8 | 6 | 7.059 | 2580 | 68 | 28.25N | 32 | 36.86E | 68 | 50N | 31 | 40E | 684872 | 24477 | 136 | 40 | 12 | 1 | 2.431 |
| 23 | 8 | 6 | 9.639 | 2580 | 68 | 20.70N | 32 | 56.09E | 68 | 42N | 32 | 0E | 684244 | 24478 | 136 | 59 | 12 | 11 | 2.435 |
| 24 | 8 | 6 | 12.219 | 2580 | 68 | 13.10N | 33 | 15.11E | 68 | 35N | 32 | 19E | 683618 | 24480 | 137 | 18 | 12 | 21 | 2.435 |
| 25 | 8 | 6 | 14.788 | 2570 | 68 | 5.51N | 33 | 33.83E | 68 | 27N | 32 | 39E | 682997 | 24481 | 137 | 37 | 12 | 32 | 2.445 |
| 26 | 8 | 6 | 17.358 | 2570 | 67 | 57.87N | 33 | 52.35E | 68 | 20N | 32 | 58E | 682376 | 24482 | 137 | 55 | 12 | 42 | 2.445 |
| 27 | 8 | 6 | 19.924 | 2565 | 67 | 50.21N | 34 | 10.62E | 68 | 12N | 33 | 17E | 681758 | 24484 | 138 | 13 | 12 | 52 | 2.450 |
| 28 | 8 | 6 | 22.483 | 2560 | 67 | 42.53N | 34 | 28.65E | 68 | 5N | 33 | 35E | 681142 | 24485 | 138 | 31 | 13 | 2 | 2.454 |
| 29 | 8 | 6 | 25.038 | 2555 | 67 | 34.82N | 34 | 46.45E | 67 | 57N | 33 | 54E | 680530 | 24487 | 138 | 49 | 13 | 12 | 2.459 |
| 30 | 8 | 6 | 27.594 | 2555 | 67 | 27.08N | 35 | 4.05E | 67 | 49N | 34 | 12E | 679917 | 24488 | 139 | 6 | 13 | 22 | 2.459 |
| 31 | 8 | 6 | 30.144 | 2550 | 67 | 19.33N | 35 | 21.41E | 67 | 42N | 34 | 30E | 679309 | 24490 | 139 | 23 | 13 | 32 | 2.464 |
| 32 | 8 | 6 | 32.693 | 2550 | 67 | 11.54N | 35 | 38.59E | 67 | 34N | 34 | 48E | 678702 | 24491 | 139 | 40 | 13 | 42 | 2.464 |
| 33 | 8 | 6 | 35.229 | 2536 | 67 | 3.76N | 35 | 55.48E | 67 | 26N | 35 | 5E | 678099 | 24492 | 139 | 57 | 13 | 52 | 2.478 |
| 34 | 8 | 6 | 37.773 | 2544 | 66 | 55.92N | 36 | 12.24E | 67 | 19N | 35 | 23E | 677496 | 24494 | 140 | 14 | 14 | 2 | 2.470 |
| 35 | 8 | 6 | 40.309 | 2535 | 66 | 48.08N | 36 | 28.76E | 67 | 11N | 35 | 40E | 676897 | 24495 | 140 | 30 | 14 | 13 | 2.479 |
| 36 | 8 | 6 | 42.844 | 2535 | 66 | 40.20N | 36 | 45.09E | 67 | 3N | 35 | 57E | 676299 | 24497 | 140 | 46 | 14 | 23 | 2.479 |
| 37 | 8 | 6 | 45.368 | 2525 | 66 | 32.33N | 37 | 1.18E | 66 | 55N | 36 | 13E | 675705 | 24498 | 141 | 2 | 14 | 33 | 2.488 |
| 38 | 8 | 6 | 47.894 | 2520 | 66 | 24.43N | 37 | 17.11E | 66 | 47N | 36 | 30E | 675113 | 24499 | 141 | 18 | 14 | 42 | 2.488 |
| 39 | 8 | 6 | 50.413 | 2520 | 66 | 16.51N | 37 | 32.82E | 66 | 39N | 36 | 46E | 674522 | 24501 | 141 | 33 | 14 | 52 | 2.493 |
| 40 | 8 | 6 | 52.934 | 2520 | 66 | 8.57N | 37 | 48.37E | 66 | 32N | 37 | 2E | 673934 | 24502 | 141 | 49 | 15 | 2 | 2.493 |
| 41 | 8 | 6 | 55.448 | 2515 | 66 | 0.61N | 38 | 3.71E | 66 | 24N | 37 | 18E | 673348 | 24503 | 142 | 4 | 15 | 12 | 2.498 |
| 42 | 8 | 6 | 57.964 | 2515 | 65 | 52.62N | 38 | 18.90E | 66 | 16N | 37 | 34E | 672763 | 24505 | 142 | 19 | 15 | 22 | 2.498 |
| 43 | 8 | 7 | 0.474 | 2510 | 65 | 44.63N | 38 | 33.89E | 66 | 8N | 37 | 49E | 672181 | 24506 | 142 | 34 | 15 | 32 | 2.503 |
| 44 | 8 | 7 | 2.979 | 2505 | 65 | 36.62N | 38 | 48.69E | 66 | 0N | 38 | 4E | 671602 | 24507 | 142 | 48 | 15 | 42 | 2.508 |
| 45 | 8 | 7 | 5.479 | 2500 | 65 | 28.60N | 39 | 3.31E | 65 | 52N | 38 | 19E | 671025 | 24509 | 143 | 3 | 15 | 52 | 2.513 |

TOP SECRET

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PASS 103D AFT 4MAR65

| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|--------|--------|---------|-----------|-----------|---------|----------|--------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILS | DEG MIN | DEG MIN | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 46 | 8 7 | 7.979 | 2500 | 65 28.56N | 39 17.77E | 65 44N | 34E | 670451 | 24510 | 143 17 | 16 2 | ND | ND | 2.513 |
| 47 | 8 7 | 10.474 | 2495 | 65 12.50N | 39 32.05E | 65 36N | 34E | 669879 | 24512 | 143 31 | 16 12 | ND | ND | 2.518 |
| 48 | 8 7 | 12.964 | 2490 | 65 4.44N | 39 46.15E | 65 28N | 39 | 669309 | 24513 | 143 45 | 16 22 | ND | ND | 2.523 |
| 49 | 8 7 | 15.454 | 2491 | 64 56.35N | 40 0.11E | 65 20N | 39 | 668740 | 24514 | 143 59 | 16 32 | ND | ND | 2.522 |
| 50 | 8 7 | 17.943 | 2485 | 64 48.25N | 40 13.92E | 65 12N | 39 | 668174 | 24515 | 144 13 | 16 41 | ND | ND | 2.524 |
| 51 | 8 7 | 20.429 | 2485 | 64 48.13N | 40 27.56E | 65 4N | 39 | 667610 | 24517 | 144 26 | 16 51 | ND | ND | 2.528 |
| 52 | 8 7 | 22.908 | 2480 | 64 32.00N | 40 41.03E | 64 56N | 40 | 667048 | 24518 | 144 39 | 17 1 | ND | ND | 2.534 |
| 53 | 8 7 | 25.384 | 2475 | 64 23.87N | 40 54.34E | 64 48N | 40 | 666490 | 24519 | 144 52 | 17 11 | ND | ND | 2.539 |
| 54 | 8 7 | 27.863 | 2480 | 64 15.70N | 41 7.53E | 64 39N | 40 | 665931 | 24521 | 145 5 | 17 21 | ND | ND | 2.534 |
| 55 | 8 7 | 30.339 | 2475 | 64 7.53N | 41 20.57E | 64 31N | 40 | 665376 | 24522 | 145 18 | 17 30 | ND | ND | 2.539 |
| 56 | 8 7 | 32.804 | 2465 | 63 59.36N | 41 33.42E | 64 23N | 40 | 664824 | 24523 | 145 31 | 17 40 | ND | ND | 2.549 |
| 57 | 8 7 | 35.269 | 2465 | 63 51.18N | 41 46.14E | 64 15N | 41 | 664273 | 24525 | 145 43 | 17 50 | ND | ND | 2.549 |
| 58 | 8 7 | 37.733 | 2465 | 63 42.97N | 41 58.74E | 64 7N | 41 | 663725 | 24526 | 145 56 | 18 0 | ND | ND | 2.549 |
| 59 | 8 7 | 40.193 | 2460 | 63 34.76N | 42 11.18E | 63 59N | 41 | 663179 | 24527 | 146 8 | 18 10 | ND | ND | 2.544 |
| 60 | 8 7 | 42.648 | 2455 | 63 26.55N | 42 23.47E | 63 51N | 41 | 662636 | 24528 | 146 20 | 18 19 | ND | ND | 2.559 |
| 61 | 8 7 | 45.099 | 2450 | 63 18.33N | 42 35.62E | 63 42N | 41 | 662095 | 24530 | 146 32 | 18 29 | ND | ND | 2.565 |
| 62 | 8 7 | 47.554 | 2455 | 63 10.08N | 42 47.67E | 63 34N | 42 | 661554 | 24531 | 146 44 | 18 39 | ND | ND | 2.559 |
| 63 | 8 7 | 50.003 | 2450 | 63 1.83N | 42 59.57E | 63 26N | 42 | 661016 | 24532 | 146 56 | 18 48 | ND | ND | 2.565 |
| 64 | 8 7 | 52.448 | 2445 | 62 53.57N | 43 11.34E | 63 18N | 42 | 660481 | 24533 | 147 7 | 18 58 | ND | ND | 2.570 |
| 65 | 8 7 | 54.894 | 2445 | 62 45.30N | 43 22.99E | 63 9N | 42 | 659948 | 24535 | 147 19 | 19 8 | ND | ND | 2.570 |
| 66 | 8 7 | 57.333 | 2440 | 62 37.02N | 43 34.51E | 63 1N | 42 | 659417 | 24536 | 147 30 | 19 17 | ND | ND | 2.575 |
| 67 | 8 7 | 59.773 | 2440 | 62 28.73N | 43 45.91E | 62 53N | 43 | 658888 | 24537 | 147 41 | 19 27 | ND | ND | 2.575 |
| 68 | 8 8 | 2.208 | 2435 | 62 20.43N | 43 57.18E | 62 45N | 43 | 658362 | 24538 | 147 52 | 19 37 | ND | ND | 2.580 |
| 69 | 8 8 | 4.639 | 2430 | 62 12.14N | 44 8.32E | 62 36N | 43 | 657837 | 24540 | 148 3 | 19 46 | ND | ND | 2.586 |
| 70 | 8 8 | 7.068 | 2430 | 62 3.83N | 44 19.35E | 62 28N | 43 | 657316 | 24541 | 148 14 | 19 56 | ND | ND | 2.586 |
| 71 | 8 8 | 9.493 | 2425 | 61 55.52N | 44 30.22E | 62 20N | 43 | 656796 | 24542 | 148 25 | 20 5 | ND | ND | 2.591 |
| 72 | 8 8 | 11.918 | 2425 | 61 47.19N | 44 41.06E | 62 12N | 44 | 656278 | 24543 | 148 35 | 20 15 | ND | ND | 2.591 |
| 73 | 8 8 | 14.339 | 2420 | 61 38.86N | 44 51.74E | 62 3N | 44 | 655762 | 24544 | 148 46 | 20 25 | ND | ND | 2.596 |
| 74 | 8 8 | 16.759 | 2420 | 61 30.52N | 45 2.32E | 62 12N | 44 | 655249 | 24546 | 148 56 | 20 34 | ND | ND | 2.596 |
| 75 | 8 8 | 19.174 | 2415 | 61 22.18N | 45 12.77E | 61 47N | 44 | 654738 | 24547 | 149 6 | 20 44 | ND | ND | 2.602 |
| 76 | 8 8 | 21.583 | 2410 | 61 13.84N | 45 23.11E | 61 38N | 44 | 654230 | 24548 | 149 17 | 20 53 | ND | ND | 2.607 |
| 77 | 8 8 | 23.988 | 2405 | 61 5.50N | 45 33.33E | 61 30N | 45 | 653724 | 24549 | 149 27 | 21 3 | ND | ND | 2.613 |
| 78 | 8 8 | 26.403 | 2415 | 60 57.12N | 45 43.59E | 61 22N | 45 | 653218 | 24550 | 149 37 | 21 12 | ND | ND | 2.602 |
| 79 | 8 8 | 28.808 | 2405 | 60 48.75N | 45 53.93E | 61 13N | 45 | 652716 | 24552 | 149 46 | 21 22 | ND | ND | 2.613 |
| 80 | 8 8 | 31.208 | 2400 | 60 40.39N | 46 3.45E | 61 5N | 45 | 652216 | 24553 | 149 56 | 21 31 | ND | ND | 2.618 |
| 81 | 8 8 | 33.608 | 2400 | 60 32.01N | 46 13.29E | 60 57N | 45 | 651718 | 24554 | 150 6 | 21 41 | ND | ND | 2.618 |
| 82 | 8 8 | 36.003 | 2395 | 60 23.64N | 46 23.01E | 60 48N | 45 | 651222 | 24555 | 150 15 | 21 50 | ND | ND | 2.623 |
| 83 | 8 8 | 38.399 | 2396 | 60 15.24N | 46 32.65E | 60 40N | 46 | 650728 | 24556 | 150 25 | 22 0 | ND | ND | 2.622 |
| 84 | 8 8 | 40.793 | 2394 | 60 6.85N | 46 42.19E | 60 31N | 46 | 650236 | 24557 | 150 34 | 22 9 | ND | ND | 2.625 |
| 85 | 8 8 | 43.184 | 2390 | 59 58.45N | 46 51.64E | 60 23N | 46 | 649746 | 24559 | 150 43 | 22 19 | ND | ND | 2.629 |
| 86 | 8 8 | 45.568 | 2385 | 59 50.06N | 47 0.98E | 60 15N | 46 | 649260 | 24560 | 150 52 | 22 28 | ND | ND | 2.634 |
| 87 | 8 8 | 47.953 | 2385 | 59 41.65N | 47 10.23E | 60 6N | 46 | 648774 | 24561 | 151 1 | 22 38 | ND | ND | 2.634 |
| 88 | 8 8 | 50.339 | 2385 | 59 33.23N | 47 19.41E | 59 58N | 46 | 648291 | 24562 | 151 10 | 22 47 | ND | ND | 2.634 |
| 89 | 8 8 | 52.714 | 2375 | 59 24.83N | 47 28.47E | 59 50N | 47 | 647811 | 24563 | 151 19 | 22 56 | ND | ND | 2.646 |
| 90 | 8 8 | 55.094 | 2380 | 59 16.41N | 47 37.46E | 59 41N | 47 | 647332 | 24564 | 151 28 | 23 6 | ND | ND | 2.640 |

TOP SECRET

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| FRM | HR | MI | SEC | DTIM | CAMERA | | | FORMAT CENTER | | | ALTITUDE | | | VELOC | | | AZIMUTH SUN/ | | | PITCH | | | ROLL | | | YAW | | | SCN |
|-----|----|----|--------|------|--------|--------|-----------|---------------|-----|-----|----------|--------|-------|-------|-----|----|--------------|----|-----|-------|-----|-----|------|-----|-----|-----|-----|-------|-----|
| | | | | MILS | DEG | MIN | LONG | DEG | MIN | DEG | LONG | MIN | FEET | F/S | DEG | MI | DEG | MI | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | RAT |
| 91 | 8 | 8 | 57.474 | 2380 | 59 | 7.97N | 47 46.38E | 59 | 33N | 47 | 19E | 646855 | 24565 | 151 | 37 | 23 | 15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.644 | |
| 92 | 8 | 8 | 59.849 | 2375 | 58 | 59.54N | 47 55.20E | 59 | 24N | 47 | 28E | 646380 | 24566 | 151 | 45 | 23 | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.646 | |
| 93 | 8 | 9 | 2.215 | 2366 | 58 | 51.13N | 48 3.92E | 59 | 16N | 47 | 37E | 645908 | 24568 | 151 | 54 | 23 | 34 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.656 | |
| 94 | 8 | 9 | 4.583 | 2369 | 58 | 42.70N | 48 12.57E | 59 | 7N | 47 | 46E | 645439 | 24569 | 152 | 2 | 23 | 43 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.652 | |
| 95 | 8 | 9 | 6.953 | 2370 | 58 | 34.25N | 48 21.15E | 58 | 59N | 47 | 54E | 644969 | 24570 | 152 | 10 | 23 | 53 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.651 | |
| 96 | 8 | 9 | 9.319 | 2360 | 58 | 25.80N | 48 29.64E | 58 | 51N | 48 | 3E | 644503 | 24571 | 152 | 19 | 24 | 2 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.656 | |
| 97 | 8 | 9 | 11.680 | 2360 | 58 | 17.36N | 48 38.04E | 58 | 42N | 48 | 12E | 644040 | 24572 | 152 | 27 | 24 | 11 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.662 | |
| 98 | 8 | 9 | 14.038 | 2359 | 58 | 8.92N | 48 46.36E | 58 | 34N | 48 | 20E | 643578 | 24573 | 152 | 35 | 24 | 21 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.663 | |
| 99 | 8 | 9 | 16.398 | 2360 | 58 | 0.46N | 48 54.62E | 58 | 25N | 48 | 29E | 643118 | 24574 | 152 | 43 | 24 | 30 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.662 | |
| 100 | 8 | 9 | 18.755 | 2356 | 57 | 52.01N | 49 2.80E | 58 | 17N | 48 | 37E | 642660 | 24575 | 152 | 51 | 24 | 39 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.667 | |
| 101 | 8 | 9 | 21.108 | 2354 | 57 | 43.55N | 49 10.90E | 58 | 8N | 48 | 46E | 642205 | 24576 | 152 | 59 | 24 | 49 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.669 | |
| 102 | 8 | 9 | 23.459 | 2351 | 57 | 35.10N | 49 18.19E | 58 | 0N | 48 | 54E | 641752 | 24577 | 153 | 6 | 24 | 58 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.673 | |
| 103 | 8 | 9 | 25.810 | 2350 | 57 | 26.63N | 49 26.88E | 57 | 52N | 49 | 2E | 641301 | 24578 | 153 | 14 | 25 | 7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.674 | |
| 104 | 8 | 9 | 28.158 | 2349 | 57 | 18.16N | 49 34.76E | 57 | 35N | 49 | 18E | 640851 | 24579 | 153 | 22 | 25 | 17 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.675 | |
| 105 | 8 | 9 | 30.503 | 2345 | 57 | 9.70N | 49 42.57E | 57 | 35N | 49 | 18E | 640405 | 24580 | 153 | 29 | 25 | 26 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.679 | |
| 106 | 8 | 9 | 32.844 | 2340 | 57 | 1.24N | 49 50.30E | 57 | 26N | 49 | 26E | 639960 | 24581 | 153 | 37 | 25 | 35 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.685 | |
| 107 | 8 | 9 | 35.185 | 2341 | 56 | 52.77N | 49 57.97E | 57 | 18N | 49 | 34E | 639518 | 24583 | 153 | 44 | 25 | 44 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.684 | |
| 108 | 8 | 9 | 37.528 | 2344 | 56 | 44.28N | 50 5.59E | 57 | 9N | 49 | 42E | 639076 | 24584 | 153 | 51 | 25 | 54 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.681 | |
| 109 | 8 | 9 | 39.859 | 2331 | 56 | 35.82N | 50 13.10E | 57 | 1N | 49 | 49E | 638639 | 24585 | 153 | 59 | 26 | 3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.695 | |
| 110 | 8 | 9 | 42.198 | 2339 | 56 | 27.33N | 50 20.58E | 56 | 52N | 49 | 57E | 638202 | 24586 | 154 | 6 | 26 | 12 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.686 | |
| 111 | 8 | 9 | 44.528 | 2330 | 56 | 18.87N | 50 27.98E | 56 | 44N | 50 | 5E | 637768 | 24587 | 154 | 13 | 26 | 21 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.697 | |
| 112 | 8 | 9 | 46.859 | 2331 | 56 | 10.39N | 50 35.31E | 56 | 35N | 50 | 12E | 637336 | 24588 | 154 | 20 | 26 | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.695 | |
| 113 | 8 | 9 | 49.185 | 2325 | 56 | 1.92N | 50 42.58E | 56 | 27N | 50 | 20E | 636907 | 24589 | 154 | 27 | 26 | 40 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.702 | |
| 114 | 8 | 9 | 51.514 | 2329 | 55 | 53.43N | 50 49.79E | 56 | 18N | 50 | 27E | 636479 | 24590 | 154 | 34 | 26 | 49 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.698 | |
| 115 | 8 | 9 | 53.839 | 2325 | 55 | 44.94N | 50 56.94E | 56 | 10N | 50 | 34E | 636054 | 24591 | 154 | 41 | 26 | 58 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.702 | |
| 116 | 8 | 9 | 56.158 | 2320 | 55 | 36.47N | 51 4.02E | 56 | 1N | 50 | 42E | 635630 | 24592 | 154 | 48 | 27 | 7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.708 | |
| 117 | 8 | 9 | 58.474 | 2315 | 55 | 28.00N | 51 11.03E | 55 | 53N | 50 | 49E | 635210 | 24593 | 154 | 54 | 27 | 16 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.714 | |
| 118 | 8 | 10 | 0.793 | 2320 | 55 | 19.51N | 51 17.99E | 55 | 45N | 50 | 56E | 634790 | 24594 | 155 | 1 | 27 | 26 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.708 | |
| 119 | 8 | 10 | 3.108 | 2315 | 55 | 11.03N | 51 24.90E | 55 | 36N | 51 | 3E | 634373 | 24595 | 155 | 8 | 27 | 35 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.714 | |

TOP SECRET

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| FRM | Z TIME | | DTIM | CAMERA NADIR | | FORMAT CENTER | | ALTITUDE | VELOC | AZINUTH | SUN/ | PITCH | ROLL | YAW | SC | | | | |
|-----|--------|----|--------|--------------|------|---------------|-----|----------|-------|---------|------|-------|--------|-------|----|-----|-----|-----|-------|
| | HR | MI | | SEC | MILS | DEG | MIN | | | | | | | | | DEG | MIN | DEG | MI |
| 1 | 9 | 19 | 37.688 | 0 | 38 | 16.94N | 111 | 40.45W | 37 | 37N | 111 | 58W | 964184 | 23851 | 16 | 22 | -51 | 31 | 1.308 |
| 2 | 9 | 19 | 42.493 | 4805 | 38 | 35.05N | 111 | 33.67W | 37 | 55N | 111 | 51W | 962812 | 23854 | 16 | 28 | -51 | 13 | 1.308 |
| 3 | 9 | 19 | 46.684 | 4190 | 38 | 50.84N | 111 | 27.69W | 38 | 11N | 111 | 46W | 961614 | 23856 | 16 | 33 | -50 | 58 | 1.500 |
| 4 | 9 | 19 | 50.734 | 4051 | 39 | 6.10N | 111 | 21.87W | 38 | 26N | 111 | 40W | 960455 | 23859 | 16 | 38 | -50 | 43 | 1.551 |
| 5 | 9 | 19 | 54.743 | 4009 | 39 | 21.19N | 111 | 16.06W | 38 | 41N | 111 | 34W | 959307 | 23861 | 16 | 43 | -50 | 28 | 1.567 |
| 6 | 9 | 19 | 58.719 | 3975 | 39 | 36.15N | 111 | 10.24W | 38 | 56N | 111 | 28W | 958168 | 23864 | 16 | 48 | -50 | 14 | 1.581 |
| 7 | 9 | 20 | 2.678 | 3959 | 39 | 51.04N | 111 | 4.40W | 39 | 11N | 111 | 23W | 957332 | 23866 | 16 | 53 | -49 | 59 | 1.585 |
| 8 | 9 | 20 | 6.643 | 3965 | 40 | 5.95N | 110 | 58.51W | 39 | 26N | 111 | 17W | 955895 | 23869 | 16 | 58 | -49 | 44 | 1.585 |
| 9 | 9 | 20 | 10.593 | 3950 | 40 | 20.80N | 110 | 52.58W | 39 | 41N | 111 | 11W | 954760 | 23871 | 17 | 3 | -49 | 29 | 1.591 |
| 10 | 9 | 20 | 14.533 | 3941 | 40 | 35.61N | 110 | 46.62W | 39 | 56N | 111 | 5W | 953627 | 23874 | 17 | 8 | -49 | 15 | 1.594 |
| 11 | 9 | 20 | 18.474 | 3940 | 40 | 50.41N | 110 | 40.60W | 40 | 11N | 110 | 59W | 952495 | 23876 | 17 | 14 | -49 | 0 | 1.595 |
| 12 | 9 | 20 | 22.398 | 3925 | 41 | 5.15N | 110 | 34.56W | 40 | 26N | 110 | 53W | 951365 | 23879 | 17 | 19 | -48 | 45 | 1.601 |

TOP SECRET

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| FRM | Z TIME | DTIM | DEG MIN | LAT | DEG MIN | LONG | DEG MIN | LAT | DEG MIN | LONG | ALTITUDE | VELOC | DEG MI | DEG SUNV | PITCH | ROLL | YAW | SCAN |
|-------|-------------|-------|-----------|-----------|---------|-----------|---------|-----------|---------|--------|----------|--------|--------|----------|---------|---------|---------|-------|
| HR MI | SEC | MILS | LAT | DEG MIN | LONG | LONG | LAT | DEG MIN | LONG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | DEG MIN | RAT |
| 1 | 9 38 13.378 | 0 | 61 16.71N | 22 39.59E | 61 41N | 22 39.59E | 61 41N | 22 39.59E | 8E | 653786 | 24549 | 149 13 | 20 48 | ND | ND | ND | ND | 2.041 |
| 2 | 9 38 16.457 | 3079 | 61 6.04N | 22 52.70E | 61 31N | 22 52.70E | 61 31N | 22 52.70E | 21E | 653061 | 24551 | 149 26 | 21 1 | ND | ND | ND | ND | 2.041 |
| 3 | 9 38 19.128 | 2671 | 60 56.77N | 23 3.95E | 61 21N | 22 3.95E | 61 21N | 22 3.95E | 33E | 652504 | 24552 | 149 37 | 21 11 | ND | ND | ND | ND | 2.352 |
| 4 | 9 38 21.674 | 2545 | 60 47.91N | 23 14.56E | 61 12N | 22 14.56E | 61 12N | 22 14.56E | 44E | 651974 | 24553 | 149 48 | 21 21 | ND | ND | ND | ND | 2.469 |
| 5 | 9 38 24.154 | 2481 | 60 39.26N | 23 24.80E | 61 4N | 22 24.80E | 61 4N | 22 24.80E | 54E | 651460 | 24554 | 149 58 | 21 31 | ND | ND | ND | ND | 2.533 |
| 6 | 9 38 26.617 | 2463 | 60 30.66N | 23 34.88E | 60 55N | 23 34.88E | 60 55N | 23 34.88E | 5E | 650952 | 24556 | 150 7 | 21 41 | ND | ND | ND | ND | 2.551 |
| 7 | 9 38 29.059 | 2441 | 60 22.12N | 23 44.77E | 60 47N | 23 44.77E | 60 47N | 23 44.77E | 15E | 650449 | 24557 | 150 17 | 21 50 | ND | ND | ND | ND | 2.574 |
| 8 | 9 38 31.497 | 2439 | 60 13.58N | 23 54.57E | 60 38N | 23 54.57E | 60 38N | 23 54.57E | 25E | 649949 | 24558 | 150 27 | 22 0 | ND | ND | ND | ND | 2.576 |
| 9 | 9 38 33.918 | 2421 | 60 5.08N | 24 4.20E | 60 30N | 23 30E | 60 30N | 23 30E | 35E | 649455 | 24559 | 150 36 | 22 10 | ND | ND | ND | ND | 2.595 |
| 10 | 9 38 36.328 | 2410 | 59 56.61N | 24 13.70E | 60 21N | 23 13.70E | 60 21N | 23 13.70E | 45E | 648964 | 24560 | 150 45 | 22 19 | ND | ND | ND | ND | 2.607 |
| 11 | 9 38 38.747 | 2419 | 59 48.10N | 24 23.16E | 60 13N | 23 13.16E | 60 13N | 23 13.16E | 54E | 648473 | 24561 | 150 55 | 22 29 | ND | ND | ND | ND | 2.597 |
| 12 | 9 38 41.153 | 2406 | 59 39.61N | 24 32.48E | 60 4N | 24 32.48E | 60 4N | 24 32.48E | 4E | 647985 | 24562 | 151 4 | 22 38 | ND | ND | ND | ND | 2.611 |
| 13 | 9 38 43.554 | 2400 | 59 31.13N | 24 41.69E | 59 56N | 24 41.69E | 59 56N | 24 41.69E | 13E | 647501 | 24564 | 151 13 | 22 48 | ND | ND | ND | ND | 2.618 |
| 14 | 9 38 45.953 | 2400 | 59 22.65N | 24 50.82E | 59 47N | 24 50.82E | 59 47N | 24 50.82E | 23E | 647020 | 24565 | 151 22 | 22 57 | ND | ND | ND | ND | 2.618 |
| 15 | 9 38 48.354 | 2400 | 59 14.15N | 24 59.87E | 59 39N | 24 59.87E | 59 39N | 24 59.87E | 32E | 646532 | 24566 | 151 30 | 23 7 | ND | ND | ND | ND | 2.618 |
| 16 | 9 38 50.747 | 2394 | 59 5.66N | 25 8.82E | 59 30N | 24 30E | 59 30N | 24 30E | 41E | 646069 | 24567 | 151 39 | 23 16 | ND | ND | ND | ND | 2.625 |
| 17 | 9 38 53.139 | 2391 | 58 57.16N | 25 17.68E | 59 22N | 24 17.68E | 59 22N | 24 17.68E | 50E | 645586 | 24568 | 151 48 | 23 26 | ND | ND | ND | ND | 2.628 |
| 18 | 9 38 55.523 | 2385 | 58 48.68N | 25 26.45E | 59 13N | 24 13.45E | 59 13N | 24 13.45E | 59E | 645114 | 24569 | 151 56 | 23 35 | ND | ND | ND | ND | 2.634 |
| 19 | 9 38 57.908 | 2385 | 58 40.19N | 25 35.13E | 59 5N | 25 35.13E | 59 5N | 25 35.13E | 8E | 644644 | 24570 | 152 5 | 23 45 | ND | ND | ND | ND | 2.634 |
| 20 | 9 39 0.292 | 2384 | 58 31.68N | 25 43.74E | 58 56N | 25 43.74E | 58 56N | 25 43.74E | 17E | 644175 | 24571 | 152 13 | 23 54 | ND | ND | ND | ND | 2.636 |
| 21 | 9 39 2.673 | 2380 | 58 23.18N | 25 52.26E | 58 48N | 25 52.26E | 58 48N | 25 52.26E | 26E | 643708 | 24572 | 152 21 | 24 4 | ND | ND | ND | ND | 2.640 |
| 22 | 9 39 5.042 | 2370 | 58 14.71N | 26 0.67E | 58 40N | 26 0.67E | 58 40N | 26 0.67E | 34E | 643246 | 24574 | 152 29 | 24 13 | ND | ND | ND | ND | 2.641 |
| 23 | 9 39 7.418 | 2376 | 58 6.28N | 26 9.03E | 58 31N | 25 9.03E | 58 31N | 25 9.03E | 43E | 642784 | 24575 | 152 38 | 24 22 | ND | ND | ND | ND | 2.644 |
| 24 | 9 39 9.792 | 2374 | 57 57.69N | 26 17.32E | 58 23N | 26 17.32E | 58 23N | 26 17.32E | 52E | 642324 | 24576 | 152 46 | 24 32 | ND | ND | ND | ND | 2.647 |
| 25 | 9 39 12.162 | 2370 | 57 49.18N | 26 25.52E | 58 14N | 26 25.52E | 58 14N | 26 25.52E | 0E | 641867 | 24577 | 152 54 | 24 41 | ND | ND | ND | ND | 2.651 |
| 26 | 9 39 14.522 | 2360 | 57 40.69N | 26 33.62E | 58 6N | 26 33.62E | 58 6N | 26 33.62E | 8E | 641413 | 24578 | 153 1 | 24 50 | ND | ND | ND | ND | 2.662 |
| 27 | 9 39 16.888 | 2365 | 57 32.18N | 26 41.67E | 57 57N | 26 41.67E | 57 57N | 26 41.67E | 17E | 640960 | 24579 | 153 9 | 25 0 | ND | ND | ND | ND | 2.657 |
| 28 | 9 39 19.247 | 2360 | 57 23.68N | 26 49.63E | 57 49N | 26 49.63E | 57 49N | 26 49.63E | 25E | 640510 | 24580 | 153 17 | 25 9 | ND | ND | ND | ND | 2.662 |
| 29 | 9 39 21.604 | 2356 | 57 15.18N | 26 57.52E | 57 40N | 26 57.52E | 57 40N | 26 57.52E | 33E | 640062 | 24581 | 153 25 | 25 18 | ND | ND | ND | ND | 2.667 |
| 30 | 9 39 23.952 | 2349 | 57 6.69N | 27 5.32E | 57 32N | 27 5.32E | 57 32N | 27 5.32E | 41E | 639617 | 24582 | 153 32 | 25 28 | ND | ND | ND | ND | 2.675 |
| 31 | 9 42 0.067 | 56115 | 47 25.56N | 33 51.39E | 47 51N | 33 51.39E | 47 51N | 33 51.39E | 36E | 614281 | 24642 | 159 56 | 35 44 | ND | ND | ND | ND | 0.840 |
| 32 | 9 42 3.152 | 3085 | 47 13.81N | 33 57.68E | 47 39N | 33 57.68E | 47 39N | 33 57.68E | 43E | 613871 | 24643 | 160 7 | 35 56 | ND | ND | ND | ND | 2.037 |
| 33 | 9 42 5.697 | 2545 | 47 4.11N | 34 2.84E | 47 29N | 34 2.84E | 47 29N | 34 2.84E | 48E | 613535 | 24644 | 160 7 | 36 6 | ND | ND | ND | ND | 2.469 |
| 34 | 9 42 8.087 | 2390 | 46 55.00N | 34 7.65E | 47 20N | 34 7.65E | 47 20N | 34 7.65E | 53E | 613223 | 24644 | 160 11 | 36 16 | ND | ND | ND | ND | 2.629 |
| 35 | 9 42 10.407 | 2320 | 46 46.15N | 34 12.28E | 47 11N | 34 12.28E | 47 11N | 34 12.28E | 58E | 612921 | 24645 | 160 15 | 36 25 | ND | ND | ND | ND | 2.708 |
| 36 | 9 42 12.702 | 2295 | 46 37.39N | 34 16.85E | 47 2N | 34 16.85E | 47 2N | 34 16.85E | 2E | 612625 | 24646 | 160 20 | 36 34 | ND | ND | ND | ND | 2.738 |
| 37 | 9 42 14.978 | 2275 | 46 28.70N | 34 21.34E | 46 54N | 34 21.34E | 46 54N | 34 21.34E | 7E | 612334 | 24647 | 160 24 | 36 43 | ND | ND | ND | ND | 2.774 |
| 38 | 9 42 17.242 | 2265 | 46 20.05N | 34 25.79E | 46 45N | 34 25.79E | 46 45N | 34 25.79E | 11E | 612045 | 24647 | 160 28 | 36 52 | ND | ND | ND | ND | 2.762 |
| 39 | 9 42 19.502 | 2260 | 46 11.41N | 34 30.20E | 46 36N | 34 30.20E | 46 36N | 34 30.20E | 16E | 611760 | 24648 | 160 32 | 37 1 | ND | ND | ND | ND | 2.780 |
| 40 | 9 42 21.759 | 2256 | 46 2.78N | 34 34.58E | 46 28N | 34 34.58E | 46 28N | 34 34.58E | 20E | 611477 | 24649 | 160 36 | 37 9 | ND | ND | ND | ND | 2.785 |
| 41 | 9 42 24.018 | 2259 | 45 54.14N | 34 38.94E | 46 19N | 34 38.94E | 46 19N | 34 38.94E | 25E | 611196 | 24649 | 160 40 | 37 18 | ND | ND | ND | ND | 2.781 |
| 42 | 9 42 26.268 | 2250 | 45 45.53N | 34 43.25E | 46 11N | 34 43.25E | 46 11N | 34 43.25E | 29E | 610918 | 24650 | 160 43 | 37 27 | ND | ND | ND | ND | 2.793 |
| 43 | 9 42 28.518 | 2250 | 45 36.91N | 34 47.55E | 46 2N | 34 47.55E | 46 2N | 34 47.55E | 33E | 610642 | 24651 | 160 47 | 37 36 | ND | ND | ND | ND | 2.793 |
| 44 | 9 42 30.768 | 2250 | 45 28.29N | 34 51.81E | 45 53N | 34 51.81E | 45 53N | 34 51.81E | 38E | 610368 | 24651 | 160 51 | 37 45 | ND | ND | ND | ND | 2.793 |
| 45 | 9 42 33.018 | 2250 | 45 19.67N | 34 56.05E | 45 45N | 34 56.05E | 45 45N | 34 56.05E | 42E | 610096 | 24652 | 160 55 | 37 54 | ND | ND | ND | ND | 2.793 |

TOP SECRET

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| FRM | Z TIME | | DTIM | CAMERA | | MADR | | FORMAT | | CENTER | | ALTITUDE | | VELOC | | AZIMUTH | | SUN/ | | PITCH | ROLL | YAW | SCAN |
|-----|--------|----|--------|--------|------|--------|-----|--------|-----|--------|-----|----------|--------|-------|-----|---------|----|------|----|-------|------|-------|------|
| | HR | MI | | SEC | MILS | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MI | DEG | MI | | | | |
| 46 | 9 | 42 | 35.263 | 2245 | 45 | 11.06N | 35 | 0.26E | 45 | 36N | 34 | 46E | 609826 | 24653 | 160 | 59 | 38 | 2 | ND | ND | ND | 2.799 | |
| 47 | 9 | 42 | 37.508 | 2245 | 45 | 2.44N | 35 | 4.45E | 45 | 28N | 34 | 51E | 609559 | 24653 | 161 | 3 | 38 | 11 | ND | ND | ND | 2.799 | |
| 48 | 9 | 42 | 39.752 | 2245 | 44 | 53.83N | 35 | 8.61E | 45 | 19N | 34 | 55E | 609294 | 24654 | 161 | 6 | 38 | 20 | ND | ND | ND | 2.799 | |
| 49 | 9 | 42 | 41.997 | 2245 | 44 | 45.21N | 35 | 12.75E | 45 | 18N | 34 | 59E | 609031 | 24654 | 161 | 10 | 38 | 29 | ND | ND | ND | 2.799 | |
| 50 | 9 | 42 | 44.233 | 2236 | 44 | 36.62N | 35 | 16.85E | 45 | 2N | 35 | 3E | 608771 | 24655 | 161 | 14 | 38 | 38 | ND | ND | ND | 2.810 | |
| 51 | 9 | 42 | 46.478 | 2244 | 44 | 28.00N | 35 | 20.94E | 44 | 53N | 35 | 7E | 608512 | 24656 | 161 | 17 | 38 | 46 | ND | ND | ND | 2.800 | |
| 52 | 9 | 42 | 48.718 | 2240 | 44 | 19.39N | 35 | 25.00E | 44 | 44N | 35 | 12E | 608257 | 24656 | 161 | 21 | 38 | 55 | ND | ND | ND | 2.805 | |
| 53 | 9 | 42 | 50.957 | 2240 | 44 | 10.78N | 35 | 29.04E | 44 | 36N | 35 | 16E | 608002 | 24657 | 161 | 25 | 39 | 4 | ND | ND | ND | 2.805 | |
| 54 | 9 | 42 | 53.197 | 2240 | 44 | 2.16N | 35 | 33.05E | 44 | 27N | 35 | 20E | 607750 | 24658 | 161 | 28 | 39 | 13 | ND | ND | ND | 2.805 | |
| 55 | 9 | 42 | 55.438 | 2240 | 43 | 53.54N | 35 | 37.05E | 44 | 19N | 35 | 24E | 607500 | 24658 | 161 | 32 | 39 | 22 | ND | ND | ND | 2.805 | |
| 56 | 9 | 42 | 57.673 | 2235 | 43 | 44.93N | 35 | 41.01E | 44 | 18N | 35 | 28E | 607253 | 24659 | 161 | 35 | 39 | 30 | ND | ND | ND | 2.811 | |
| 57 | 9 | 42 | 59.908 | 2236 | 43 | 36.32N | 35 | 44.95E | 44 | 1N | 35 | 32E | 607008 | 24659 | 161 | 39 | 39 | 39 | ND | ND | ND | 2.810 | |
| 58 | 9 | 43 | 2.143 | 2234 | 43 | 27.71N | 35 | 48.87E | 43 | 53N | 35 | 36E | 606765 | 24660 | 161 | 42 | 39 | 48 | ND | ND | ND | 2.813 | |
| 59 | 9 | 43 | 4.383 | 2240 | 43 | 19.07N | 35 | 52.78E | 43 | 44N | 35 | 40E | 606523 | 24660 | 161 | 46 | 39 | 57 | ND | ND | ND | 2.805 | |
| 60 | 9 | 43 | 6.608 | 2226 | 43 | 10.49N | 35 | 56.64E | 43 | 36N | 35 | 44E | 606285 | 24661 | 161 | 49 | 40 | 5 | ND | ND | ND | 2.823 | |
| 61 | 9 | 43 | 8.843 | 2234 | 43 | 1.87N | 36 | 0.50E | 43 | 27N | 35 | 48E | 606049 | 24662 | 161 | 52 | 40 | 14 | ND | ND | ND | 2.813 | |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

FRAME EPHEMERIS MISSION 1017-2

PASS 1110 AFT 4MAR65

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| FRM | Z TIME | | DTIM | CAMERA NADIR | | | FORMAT CENTER | | | ALTITUDE VELOC | | AZIMUTH SUN/ | | PITCH | ROLL | YAW | SCN | | | | | | |
|-----|--------|----|--------|--------------|------|--------|---------------|--------|-----|----------------|------|--------------|--------|-------|------|-----|-----|-----|-----|----|-----|----|-------|
| | HR | MI | | SEC | MILS | DEG | MIN | LONG | DEG | MIN | LONG | MIN | FEET | | | | | F/S | DEG | MI | DEG | MI | DEG |
| 1 | 20 | 13 | 27.066 | 0 | 38 | 12.34N | 120 | 41.36W | 38 | 37N | 120 | 52W | 600005 | 24675 | 163 | 34 | 45 | 5 | ND | ND | ND | ND | 2.038 |
| 2 | 20 | 13 | 30.151 | 3083 | 38 | 0.32N | 120 | 36.90W | 38 | 25N | 120 | 48W | 599809 | 24675 | 163 | 37 | 45 | 17 | ND | ND | ND | ND | 2.038 |
| 3 | 20 | 13 | 32.682 | 2530 | 37 | 50.45N | 120 | 33.24W | 38 | 15N | 120 | 44W | 599651 | 24676 | 163 | 40 | 45 | 27 | ND | ND | ND | ND | 2.483 |
| 4 | 20 | 13 | 35.046 | 2365 | 37 | 41.22N | 120 | 29.04W | 38 | 6N | 120 | 41W | 599506 | 24676 | 163 | 43 | 45 | 36 | ND | ND | ND | ND | 2.657 |
| 5 | 20 | 13 | 37.356 | 2310 | 37 | 32.20N | 120 | 26.54W | 37 | 57N | 120 | 37W | 599233 | 24676 | 163 | 46 | 45 | 45 | ND | ND | ND | ND | 2.720 |
| 6 | 20 | 13 | 39.642 | 2285 | 37 | 23.28N | 120 | 23.28W | 37 | 48N | 120 | 34W | 599101 | 24677 | 163 | 49 | 45 | 54 | ND | ND | ND | ND | 2.750 |
| 7 | 20 | 13 | 41.911 | 2270 | 37 | 14.42N | 120 | 20.07W | 37 | 39N | 120 | 31W | 598972 | 24677 | 163 | 51 | 46 | 3 | ND | ND | ND | ND | 2.768 |
| 8 | 20 | 13 | 44.178 | 2266 | 37 | 5.56N | 120 | 16.07W | 37 | 31N | 120 | 28W | 598972 | 24677 | 163 | 54 | 46 | 12 | ND | ND | ND | ND | 2.773 |
| 9 | 20 | 13 | 46.441 | 2264 | 36 | 56.72N | 120 | 13.69W | 37 | 22N | 120 | 24W | 598845 | 24678 | 163 | 57 | 46 | 21 | ND | ND | ND | ND | 2.775 |
| 10 | 20 | 13 | 48.701 | 2260 | 36 | 47.89N | 120 | 10.53W | 37 | 13N | 120 | 21W | 598722 | 24678 | 163 | 59 | 46 | 30 | ND | ND | ND | ND | 2.780 |
| 11 | 20 | 13 | 50.961 | 2260 | 36 | 39.05N | 120 | 7.38W | 37 | 4N | 120 | 18W | 598600 | 24678 | 164 | 2 | 46 | 38 | ND | ND | ND | ND | 2.780 |
| 12 | 20 | 13 | 53.211 | 2250 | 36 | 30.25N | 120 | 4.27W | 36 | 55N | 120 | 15W | 598481 | 24678 | 164 | 4 | 46 | 47 | ND | ND | ND | ND | 2.793 |
| 13 | 20 | 13 | 55.466 | 2251 | 36 | 21.43N | 120 | 1.15W | 36 | 46N | 120 | 12W | 598364 | 24679 | 164 | 7 | 46 | 56 | ND | ND | ND | ND | 2.786 |
| 14 | 20 | 13 | 57.717 | 2251 | 36 | 12.63N | 119 | 58.06W | 36 | 38N | 120 | 8W | 598250 | 24679 | 164 | 9 | 47 | 5 | ND | ND | ND | ND | 2.791 |
| 15 | 20 | 13 | 59.972 | 2254 | 36 | 3.80N | 119 | 54.98W | 36 | 29N | 120 | 5W | 598138 | 24679 | 164 | 12 | 47 | 14 | ND | ND | ND | ND | 2.788 |
| 16 | 20 | 14 | 2.216 | 2245 | 35 | 55.02N | 119 | 51.92W | 36 | 20N | 120 | 2W | 598028 | 24680 | 164 | 14 | 47 | 23 | ND | ND | ND | ND | 2.799 |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

ICS 94888-04

PASS 1160 AFT SMAR65

FRAME: EPHEMERIS MISSION 1817-2

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| FRM | Z TIME | DTIM | CAMERA | FORMAT | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCALE | | | | | |
|-------|--------|--------|--------|---------|----------|--------|---------|--------|--------|---------|---------|-------|-----|----|----|----|-------|
| HR MI | SEC | MILS | LAT | MIN DEG | LONG | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | RATE | | | | | |
| 1 | 3 37 | 9.280 | 59 | 8.23N | 113 | 7.55E | 59 | 33N | 112 | 40E | 641302 | 24576 | 151 | 37 | 23 | 16 | 1.946 |
| 2 | 3 37 | 12.506 | 58 | 56.77N | 113 | 19.55E | 59 | 21N | 112 | 52E | 640707 | 24577 | 151 | 48 | 23 | 29 | 1.948 |
| 3 | 3 37 | 15.165 | 58 | 47.31N | 113 | 29.28E | 59 | 12N | 113 | 2E | 640220 | 24578 | 151 | 58 | 23 | 40 | 2.362 |
| 4 | 3 37 | 17.666 | 58 | 38.39N | 113 | 38.38E | 59 | 3N | 113 | 12E | 639763 | 24579 | 152 | 7 | 23 | 50 | 2.512 |
| 5 | 3 37 | 20.101 | 58 | 29.70N | 113 | 47.15E | 58 | 54N | 113 | 21E | 639321 | 24580 | 152 | 15 | 24 | 0 | 2.581 |
| 6 | 3 37 | 22.506 | 58 | 21.10N | 113 | 55.75E | 58 | 46N | 113 | 30E | 638885 | 24581 | 152 | 24 | 24 | 9 | 2.613 |
| 7 | 3 37 | 24.891 | 58 | 12.57N | 114 | 4.19E | 58 | 37N | 113 | 38E | 638455 | 24582 | 152 | 32 | 24 | 19 | 2.634 |
| 8 | 3 37 | 27.271 | 58 | 4.04N | 114 | 12.55E | 58 | 29N | 113 | 47E | 638028 | 24583 | 152 | 42 | 24 | 29 | 2.640 |
| 9 | 3 37 | 29.641 | 57 | 55.54N | 114 | 20.81E | 58 | 20N | 113 | 55E | 637604 | 24584 | 152 | 48 | 24 | 38 | 2.651 |
| 10 | 3 37 | 32.006 | 57 | 47.04N | 114 | 28.98E | 58 | 12N | 114 | 4E | 637182 | 24585 | 152 | 56 | 24 | 48 | 2.657 |
| 11 | 3 37 | 34.360 | 57 | 38.57N | 114 | 37.04E | 58 | 3N | 114 | 12E | 636765 | 24586 | 153 | 4 | 24 | 57 | 2.668 |
| 12 | 3 37 | 36.716 | 57 | 30.09N | 114 | 45.04E | 57 | 55N | 114 | 20E | 636349 | 24587 | 153 | 11 | 25 | 6 | 2.668 |
| 13 | 3 37 | 39.061 | 57 | 21.63N | 114 | 52.94E | 57 | 46N | 114 | 28E | 635936 | 24588 | 153 | 19 | 25 | 16 | 2.679 |
| 14 | 3 37 | 41.410 | 57 | 13.15N | 115 | 0.79E | 57 | 38N | 114 | 36E | 635524 | 24589 | 153 | 27 | 25 | 25 | 2.679 |
| 15 | 3 37 | 43.756 | 57 | 4.67N | 115 | 8.57E | 57 | 29N | 114 | 44E | 635115 | 24590 | 153 | 34 | 25 | 35 | 2.679 |
| 16 | 3 37 | 46.093 | 56 | 56.22N | 115 | 16.25E | 57 | 21N | 114 | 52E | 634709 | 24591 | 153 | 42 | 25 | 44 | 2.689 |
| 17 | 3 37 | 48.432 | 56 | 47.74N | 115 | 23.88E | 57 | 13N | 115 | 0E | 634304 | 24592 | 153 | 49 | 25 | 53 | 2.686 |
| 18 | 3 37 | 50.771 | 56 | 39.26N | 115 | 31.44E | 57 | 4N | 115 | 8E | 633902 | 24593 | 153 | 56 | 26 | 3 | 2.686 |
| 19 | 3 37 | 53.105 | 56 | 30.79N | 115 | 38.93E | 56 | 56N | 115 | 15E | 633501 | 24594 | 154 | 4 | 26 | 12 | 2.691 |
| 20 | 3 37 | 55.436 | 56 | 22.32N | 115 | 46.35E | 56 | 47N | 115 | 23E | 633103 | 24595 | 154 | 11 | 26 | 21 | 2.697 |
| 21 | 3 37 | 57.761 | 56 | 13.86N | 115 | 53.69E | 56 | 39N | 115 | 31E | 632708 | 24596 | 154 | 18 | 26 | 31 | 2.702 |
| 22 | 3 38 | 0.091 | 56 | 5.37N | 116 | 0.99E | 56 | 30N | 115 | 38E | 632313 | 24597 | 154 | 25 | 26 | 40 | 2.697 |
| 23 | 3 38 | 2.410 | 55 | 56.92N | 116 | 8.20E | 56 | 22N | 115 | 45E | 631923 | 24598 | 154 | 32 | 26 | 49 | 2.708 |
| 24 | 3 38 | 4.731 | 55 | 48.44N | 116 | 15.36E | 56 | 13N | 115 | 53E | 631533 | 24599 | 154 | 39 | 26 | 59 | 2.707 |
| 25 | 3 38 | 7.051 | 55 | 39.97N | 116 | 22.46E | 56 | 5N | 116 | 0E | 631146 | 24600 | 154 | 45 | 27 | 8 | 2.709 |
| 26 | 3 38 | 9.370 | 55 | 31.49N | 116 | 29.51E | 55 | 56N | 116 | 7E | 630760 | 24600 | 154 | 52 | 27 | 17 | 2.708 |
| 27 | 3 38 | 11.686 | 55 | 23.01N | 116 | 36.48E | 55 | 48N | 116 | 14E | 630377 | 24601 | 154 | 59 | 27 | 26 | 2.714 |
| 28 | 3 38 | 14.000 | 55 | 14.53N | 116 | 43.40E | 55 | 39N | 116 | 22E | 629996 | 24602 | 155 | 6 | 27 | 36 | 2.714 |
| 29 | 3 38 | 16.306 | 55 | 6.08N | 116 | 50.25E | 55 | 31N | 116 | 29E | 629618 | 24603 | 155 | 12 | 27 | 45 | 2.728 |
| 30 | 3 38 | 18.615 | 54 | 57.68N | 116 | 57.05E | 55 | 22N | 116 | 36E | 629241 | 24604 | 155 | 19 | 27 | 54 | 2.728 |
| 31 | 3 38 | 20.920 | 52 | 40.32N | 118 | 39.71E | 53 | 5N | 118 | 21E | 628343 | 24618 | 156 | 56 | 30 | 23 | 0.169 |
| 32 | 3 38 | 23.225 | 52 | 28.73N | 118 | 47.78E | 52 | 44N | 118 | 29E | 622966 | 24619 | 157 | 4 | 30 | 35 | 2.028 |
| 33 | 3 39 | 1.432 | 52 | 19.09N | 118 | 54.43E | 52 | 44N | 118 | 36E | 622581 | 24620 | 157 | 10 | 30 | 45 | 2.430 |
| 34 | 3 39 | 3.830 | 52 | 10.15N | 119 | 0.55E | 52 | 35N | 118 | 42E | 622227 | 24621 | 157 | 16 | 30 | 55 | 2.619 |
| 35 | 3 39 | 6.196 | 52 | 1.31N | 119 | 6.54E | 52 | 26N | 118 | 48E | 621879 | 24621 | 157 | 22 | 31 | 4 | 2.656 |
| 36 | 3 39 | 8.512 | 51 | 52.66N | 119 | 12.37E | 52 | 18N | 118 | 54E | 621542 | 24622 | 157 | 27 | 31 | 14 | 2.714 |
| 37 | 3 39 | 10.816 | 51 | 44.04N | 119 | 18.13E | 52 | 9N | 119 | 0E | 621207 | 24623 | 157 | 33 | 31 | 23 | 2.726 |
| 38 | 3 39 | 13.128 | 51 | 35.39N | 119 | 23.86E | 52 | 8N | 119 | 6E | 620873 | 24624 | 157 | 38 | 31 | 32 | 2.719 |
| 39 | 3 39 | 15.401 | 51 | 26.88N | 119 | 29.46E | 51 | 52N | 119 | 11E | 620547 | 24625 | 157 | 43 | 31 | 41 | 2.763 |
| 40 | 3 39 | 17.687 | 51 | 18.32N | 119 | 35.05E | 51 | 43N | 119 | 17E | 620221 | 24625 | 157 | 49 | 31 | 50 | 2.750 |
| 41 | 3 39 | 19.967 | 51 | 9.77N | 119 | 40.60E | 51 | 35N | 119 | 23E | 619897 | 24626 | 157 | 54 | 32 | 0 | 2.756 |
| 42 | 3 39 | 22.230 | 51 | 1.27N | 119 | 46.06E | 51 | 26N | 119 | 28E | 619578 | 24627 | 157 | 59 | 32 | 9 | 2.775 |
| 43 | 3 39 | 24.506 | 50 | 52.73N | 119 | 51.52E | 51 | 18N | 119 | 34E | 619258 | 24628 | 158 | 4 | 32 | 18 | 2.762 |
| 44 | 3 39 | 26.780 | 50 | 44.19N | 119 | 56.94E | 51 | 9N | 119 | 40E | 618942 | 24628 | 158 | 9 | 32 | 27 | 2.762 |
| 45 | 3 39 | 29.051 | 50 | 35.65N | 120 | 2.31E | 51 | 1N | 119 | 45E | 618627 | 24629 | 158 | 14 | 32 | 36 | 2.768 |

TOP SECRET

HANDLE VIA

HANDLE VIA
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CONTROL ONLY

FRAME EPHMERIS

MISSION 1017-2

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PASS 116D AFT 5MAR65

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

| FRM | Z TIME | | DTIM | CAMERA NADR | | FORMAT CENTER | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCOR | | | | | | |
|-----|--------|----|--------|-------------|------|---------------|-----|----------|-------|---------|------|-------|--------|-------|------|-----|-----|------|-----|-----|-------|
| | HR | MI | | SEC. | MILS | DEG | MIN | | | | | | | | | DEG | MIN | FEET | F/S | DEG | MI |
| 46 | 3 | 39 | 31.325 | 2275 | 50 | 27.09N | 120 | 7.65E | 50 | 52N | 119 | 50E | 618314 | 24630 | 158 | 19 | 32 | 45 | ND | ND | 2.762 |
| 47 | 3 | 39 | 33.596 | 2270 | 50 | 18.55N | 120 | 12.96E | 50 | 44N | 119 | 56E | 618003 | 24631 | 158 | 24 | 32 | 54 | ND | ND | 2.768 |
| 48 | 3 | 39 | 35.860 | 2265 | 50 | 18.02N | 120 | 18.21E | 50 | 35N | 120 | 1E | 617695 | 24631 | 158 | 29 | 33 | 3 | ND | ND | 2.774 |
| 49 | 3 | 39 | 38.125 | 2265 | 50 | 1.48N | 120 | 23.43E | 50 | 26N | 120 | 7E | 617389 | 24632 | 158 | 34 | 33 | 12 | ND | ND | 2.774 |
| 50 | 3 | 39 | 40.396 | 2270 | 49 | 52.92N | 120 | 28.63E | 50 | 18N | 120 | 12E | 617083 | 24633 | 158 | 39 | 33 | 21 | ND | ND | 2.768 |
| 51 | 3 | 39 | 42.651 | 2256 | 49 | 44.41N | 120 | 33.76E | 50 | 9N | 120 | 17E | 616782 | 24634 | 158 | 44 | 33 | 30 | ND | ND | 2.775 |
| 52 | 3 | 39 | 44.915 | 2264 | 49 | 35.86N | 120 | 38.87E | 50 | 1N | 120 | 22E | 616488 | 24634 | 158 | 48 | 33 | 39 | ND | ND | 2.775 |
| 53 | 3 | 39 | 47.181 | 2265 | 49 | 27.30N | 120 | 43.96E | 49 | 52N | 120 | 28E | 616183 | 24635 | 158 | 53 | 33 | 48 | ND | ND | 2.774 |
| 54 | 3 | 39 | 49.440 | 2260 | 49 | 18.76N | 120 | 49.00E | 49 | 44N | 120 | 33E | 615887 | 24636 | 158 | 58 | 33 | 57 | ND | ND | 2.780 |
| 55 | 3 | 42 | 3.451 | 34011 | 40 | 44.85N | 125 | 0.26E | 41 | 10N | 124 | 48E | 601952 | 24669 | 162 | 44 | 42 | 51 | ND | ND | 0.047 |
| 56 | 3 | 42 | 6.490 | 3039 | 40 | 33.86N | 125 | 5.06E | 40 | 58N | 124 | 53E | 601722 | 24670 | 162 | 48 | 43 | 3 | ND | ND | 2.068 |
| 57 | 3 | 42 | 8.995 | 2505 | 40 | 23.34N | 125 | 9.00E | 40 | 48N | 124 | 57E | 601536 | 24670 | 162 | 51 | 43 | 13 | ND | ND | 2.508 |
| 58 | 3 | 42 | 11.351 | 2355 | 40 | 14.19N | 125 | 12.68E | 40 | 39N | 125 | 1E | 601364 | 24670 | 162 | 54 | 43 | 23 | ND | ND | 2.668 |
| 59 | 3 | 42 | 13.650 | 2300 | 40 | 5.26N | 125 | 16.25E | 40 | 20N | 125 | 5E | 601198 | 24671 | 162 | 57 | 43 | 32 | ND | ND | 2.732 |
| 60 | 3 | 42 | 15.926 | 2275 | 39 | 56.42N | 125 | 19.77E | 40 | 13N | 125 | 8E | 601036 | 24671 | 163 | 0 | 43 | 41 | ND | ND | 2.762 |
| 61 | 3 | 42 | 18.190 | 2265 | 39 | 47.62N | 125 | 23.26E | 40 | 13N | 125 | 12E | 600877 | 24672 | 163 | 3 | 43 | 50 | ND | ND | 2.774 |
| 62 | 3 | 42 | 20.446 | 2256 | 39 | 38.85N | 125 | 26.71E | 40 | 4N | 125 | 15E | 600721 | 24672 | 163 | 6 | 43 | 59 | ND | ND | 2.785 |
| 63 | 3 | 42 | 22.705 | 2259 | 39 | 38.06N | 125 | 30.16E | 39 | 55N | 125 | 19E | 600567 | 24672 | 163 | 9 | 44 | 8 | ND | ND | 2.781 |
| 64 | 3 | 42 | 24.955 | 2250 | 39 | 21.31N | 125 | 33.57E | 39 | 46N | 125 | 22E | 600416 | 24673 | 163 | 12 | 44 | 16 | ND | ND | 2.793 |
| 65 | 3 | 42 | 27.206 | 2251 | 39 | 12.55N | 125 | 36.97E | 39 | 38N | 125 | 26E | 600267 | 24673 | 163 | 15 | 44 | 25 | ND | ND | 2.791 |
| 66 | 3 | 42 | 29.461 | 2254 | 39 | 3.77N | 125 | 40.36E | 39 | 29N | 125 | 29E | 600121 | 24673 | 163 | 18 | 44 | 34 | ND | ND | 2.788 |
| 67 | 3 | 42 | 31.711 | 2250 | 38 | 55.01N | 125 | 43.72E | 39 | 20N | 125 | 33E | 599976 | 24674 | 163 | 23 | 44 | 43 | ND | ND | 2.793 |
| 68 | 3 | 42 | 33.956 | 2246 | 38 | 46.27N | 125 | 47.08E | 39 | 11N | 125 | 36E | 599835 | 24674 | 163 | 23 | 44 | 52 | ND | ND | 2.798 |
| 69 | 3 | 42 | 36.205 | 2249 | 38 | 37.51N | 125 | 50.39E | 39 | 2N | 125 | 39E | 599695 | 24675 | 163 | 26 | 45 | 1 | ND | ND | 2.794 |
| 70 | 3 | 42 | 38.450 | 2245 | 38 | 28.76N | 125 | 53.70E | 38 | 54N | 125 | 43E | 599558 | 24675 | 163 | 29 | 45 | 10 | ND | ND | 2.799 |
| 71 | 3 | 42 | 40.695 | 2245 | 38 | 20.01N | 125 | 56.99E | 38 | 45N | 125 | 46E | 599423 | 24675 | 163 | 32 | 45 | 19 | ND | ND | 2.799 |
| 72 | 3 | 42 | 42.940 | 2245 | 38 | 11.25N | 126 | 0.27E | 38 | 36N | 125 | 49E | 599290 | 24676 | 163 | 34 | 45 | 28 | ND | ND | 2.799 |
| 73 | 3 | 42 | 45.186 | 2245 | 38 | 2.50N | 126 | 3.54E | 38 | 27N | 125 | 53E | 599160 | 24676 | 163 | 37 | 45 | 37 | ND | ND | 2.799 |
| 74 | 3 | 42 | 47.431 | 2245 | 37 | 53.74N | 126 | 6.78E | 38 | 19N | 125 | 56E | 599032 | 24676 | 163 | 40 | 45 | 45 | ND | ND | 2.799 |
| 75 | 3 | 42 | 49.676 | 2245 | 37 | 44.98N | 126 | 10.02E | 38 | 10N | 125 | 59E | 598906 | 24676 | 163 | 42 | 45 | 54 | ND | ND | 2.799 |
| 76 | 3 | 42 | 51.915 | 2240 | 37 | 36.24N | 126 | 13.23E | 38 | 1N | 126 | 2E | 598782 | 24677 | 163 | 45 | 46 | 3 | ND | ND | 2.805 |
| 77 | 3 | 42 | 54.155 | 2240 | 37 | 27.49N | 126 | 16.42E | 37 | 52N | 126 | 6E | 598661 | 24677 | 163 | 48 | 46 | 12 | ND | ND | 2.805 |
| 78 | 3 | 42 | 56.400 | 2245 | 37 | 18.72N | 126 | 19.61E | 37 | 44N | 126 | 9E | 598542 | 24677 | 163 | 50 | 46 | 21 | ND | ND | 2.799 |
| 79 | 3 | 53 | 26.466 | 30065 | 4 | 21.75S | 136 | 28.76E | 3 | 53S | 136 | 21E | 663742 | 24528 | 168 | 29 | 78 | 26 | ND | ND | 0.010 |
| 80 | 3 | 53 | 29.811 | 3345 | 4 | 35.04S | 136 | 31.46E | 4 | 7S | 136 | 24E | 664611 | 24526 | 168 | 29 | 78 | 25 | ND | ND | 1.878 |
| 81 | 3 | 53 | 32.606 | 2796 | 4 | 46.15S | 136 | 33.72E | 4 | 18S | 136 | 26E | 665342 | 24525 | 168 | 28 | 78 | 24 | ND | ND | 2.247 |
| 82 | 3 | 53 | 35.221 | 2614 | 4 | 56.54S | 136 | 35.83E | 4 | 28S | 136 | 28E | 666028 | 24523 | 168 | 28 | 78 | 23 | ND | ND | 2.404 |
| 83 | 3 | 53 | 37.790 | 2570 | 5 | 6.75S | 136 | 37.91E | 4 | 38S | 136 | 30E | 666706 | 24522 | 168 | 28 | 78 | 21 | ND | ND | 2.445 |
| 84 | 3 | 53 | 40.341 | 2550 | 5 | 16.89S | 136 | 39.97E | 4 | 48S | 136 | 32E | 667382 | 24520 | 168 | 28 | 78 | 20 | ND | ND | 2.464 |
| 85 | 3 | 53 | 42.870 | 2530 | 5 | 26.93S | 136 | 42.02E | 4 | 58S | 136 | 34E | 668055 | 24518 | 168 | 27 | 78 | 18 | ND | ND | 2.483 |
| 86 | 3 | 53 | 45.400 | 2530 | 5 | 36.99S | 136 | 44.07E | 5 | 9S | 136 | 36E | 668731 | 24517 | 168 | 27 | 78 | 16 | ND | ND | 2.483 |
| 87 | 3 | 53 | 47.926 | 2525 | 5 | 47.02S | 136 | 46.12E | 5 | 19S | 136 | 38E | 669408 | 24515 | 168 | 27 | 78 | 14 | ND | ND | 2.488 |
| 88 | 3 | 53 | 50.450 | 2525 | 5 | 57.04S | 136 | 48.16E | 5 | 29S | 136 | 40E | 670088 | 24514 | 168 | 26 | 78 | 12 | ND | ND | 2.488 |
| 89 | 3 | 53 | 52.976 | 2525 | 6 | 7.07S | 136 | 50.21E | 5 | 39S | 136 | 43E | 670771 | 24512 | 168 | 26 | 78 | 10 | ND | ND | 2.488 |
| 90 | 3 | 53 | 55.500 | 2525 | 6 | 17.10S | 136 | 52.27E | 5 | 49S | 136 | 45E | 671457 | 24511 | 168 | 26 | 78 | 7 | ND | ND | 2.488 |

TOP SECRET

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| FRM | Z TIME | | DTIM | CAMERA | | FORMAT | | ALTIITUDE | | VELOC | | AZINUTH | | SUN/ | | PITCH | ROLL | YAW | SCM | | |
|-----|--------|----|--------|--------|------|--------|-----|-----------|-----|-------|-----|---------|--------|-------|-----|-------|------|-----|-----|-----|-------|
| | HR | MI | | SEC | MILS | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MI | DEG | MI | | | | | DEG | MI |
| 91 | 3 | 53 | 58.030 | 2530 | 6 | 27.155 | 136 | 54.32E | 5 | 595 | 136 | 47E | 672147 | 24509 | 168 | 25 | 78 | 5 | ND | ND | 2.483 |
| 92 | 3 | 54 | 0.561 | 2530 | 6 | 37.195 | 136 | 56.38E | 6 | 95 | 136 | 49E | 672839 | 24507 | 168 | 25 | 78 | 2 | ND | ND | 2.483 |
| 93 | 3 | 54 | 3.091 | 2530 | 6 | 47.245 | 136 | 58.44E | 6 | 195 | 136 | 51E | 673535 | 24506 | 168 | 25 | 77 | 59 | ND | ND | 2.483 |
| 94 | 3 | 54 | 5.620 | 2530 | 6 | 57.285 | 137 | 0.50E | 6 | 295 | 136 | 53E | 674233 | 24504 | 168 | 24 | 77 | 57 | ND | ND | 2.483 |
| 95 | 3 | 54 | 8.160 | 2540 | 7 | 7.365 | 137 | 2.57E | 6 | 395 | 136 | 55E | 674937 | 24503 | 168 | 24 | 77 | 53 | ND | ND | 2.474 |
| 96 | 3 | 54 | 10.700 | 2540 | 7 | 17.445 | 137 | 4.65E | 6 | 495 | 136 | 57E | 675643 | 24501 | 168 | 23 | 77 | 50 | ND | ND | 2.474 |
| 97 | 3 | 54 | 13.240 | 2540 | 7 | 27.525 | 137 | 6.72E | 6 | 595 | 136 | 59E | 676352 | 24499 | 168 | 23 | 77 | 47 | ND | ND | 2.474 |
| 98 | 3 | 54 | 15.785 | 2545 | 7 | 37.625 | 137 | 8.80E | 7 | 95 | 137 | 1E | 677066 | 24498 | 168 | 23 | 77 | 43 | ND | ND | 2.469 |
| 99 | 3 | 54 | 18.319 | 2534 | 7 | 47.685 | 137 | 10.88E | 7 | 195 | 137 | 3E | 677779 | 24496 | 168 | 22 | 77 | 40 | ND | ND | 2.480 |

TOP SECRET.

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| FRM | 2 TIME | DTIM | CAMERA | FORMAT | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | | | | | |
|-------|-------------|-------|--------|--------|----------|--------|---------|------|-------|------|--------|-------|-----|----|----|----|----|----|-------|
| HR MI | SEC | MILS | LAT | MIN | DEG | MIN | DEG | MI | DEG | MIN | MIN | RAT | | | | | | | |
| 1 | 5 7 0.925 | 0 | 59 | 5.02N | 90 | 30.99E | 59 | 30N | 90 | 4E | 640686 | 24577 | 151 | 40 | 23 | 18 | ND | ND | 1.998 |
| 2 | 5 7 4.069 | 3145 | 58 | 53.84N | 90 | 42.62E | 59 | 18N | 90 | 16E | 640111 | 24578 | 151 | 51 | 23 | 31 | ND | ND | 1.998 |
| 3 | 5 7 6.720 | 2650 | 58 | 44.40N | 90 | 52.32E | 59 | 9N | 90 | 26E | 639628 | 24579 | 152 | 1 | 23 | 41 | ND | ND | 2.371 |
| 4 | 5 7 9.220 | 2500 | 58 | 35.49N | 91 | 1.39E | 59 | 0N | 90 | 35E | 639174 | 24580 | 152 | 9 | 23 | 51 | ND | ND | 2.513 |
| 5 | 5 7 11.659 | 2440 | 58 | 26.78N | 91 | 10.15E | 58 | 51N | 90 | 44E | 638733 | 24581 | 152 | 18 | 24 | 1 | ND | ND | 2.575 |
| 6 | 5 7 14.069 | 2410 | 58 | 18.16N | 91 | 18.74E | 58 | 43N | 90 | 53E | 638300 | 24582 | 152 | 26 | 24 | 11 | ND | ND | 2.607 |
| 7 | 5 7 16.465 | 2395 | 58 | 1.05N | 91 | 27.20E | 58 | 34N | 91 | 1E | 637871 | 24583 | 152 | 34 | 24 | 21 | ND | ND | 2.623 |
| 8 | 5 7 18.845 | 2380 | 58 | 18.49N | 92 | 15.93E | 57 | 35N | 91 | 59E | 634953 | 24590 | 153 | 29 | 25 | 27 | ND | ND | 2.674 |
| 9 | 5 7 21.220 | 2375 | 57 | 52.52N | 91 | 43.79E | 58 | 17N | 91 | 18E | 637024 | 24585 | 152 | 51 | 24 | 40 | ND | ND | 2.646 |
| 10 | 5 7 23.590 | 2370 | 57 | 44.00N | 91 | 51.95E | 58 | 9N | 91 | 27E | 636604 | 24586 | 152 | 58 | 24 | 49 | ND | ND | 2.651 |
| 11 | 5 7 25.954 | 2365 | 57 | 35.50N | 92 | 0.03E | 58 | 0N | 91 | 35E | 636187 | 24587 | 153 | 6 | 24 | 59 | ND | ND | 2.657 |
| 12 | 5 7 28.314 | 2360 | 57 | 26.99N | 92 | 8.02E | 57 | 52N | 91 | 43E | 635773 | 24588 | 153 | 14 | 25 | 8 | ND | ND | 2.662 |
| 13 | 5 7 30.670 | 2355 | 57 | 18.49N | 92 | 15.93E | 57 | 43N | 91 | 51E | 635361 | 24589 | 153 | 22 | 25 | 17 | ND | ND | 2.668 |
| 14 | 5 7 33.020 | 2350 | 57 | 10.01N | 92 | 23.76E | 57 | 35N | 91 | 59E | 634953 | 24590 | 153 | 29 | 25 | 27 | ND | ND | 2.674 |
| 15 | 5 7 35.369 | 2350 | 57 | 1.51N | 92 | 31.53E | 57 | 26N | 92 | 7E | 634545 | 24591 | 153 | 37 | 25 | 36 | ND | ND | 2.674 |
| 16 | 5 7 37.715 | 2345 | 56 | 53.02N | 92 | 39.21E | 57 | 18N | 92 | 15E | 634141 | 24592 | 153 | 44 | 25 | 46 | ND | ND | 2.679 |
| 17 | 5 7 40.060 | 2345 | 56 | 44.52N | 92 | 46.84E | 57 | 9N | 92 | 23E | 633738 | 24593 | 153 | 52 | 25 | 55 | ND | ND | 2.679 |
| 18 | 5 7 42.402 | 2343 | 56 | 36.03N | 92 | 54.39E | 57 | 1N | 92 | 31E | 633337 | 24594 | 153 | 59 | 26 | 4 | ND | ND | 2.682 |
| 19 | 5 7 44.734 | 2332 | 56 | 27.56N | 93 | 1.85E | 56 | 52N | 92 | 38E | 632940 | 24595 | 154 | 6 | 26 | 14 | ND | ND | 2.694 |
| 20 | 5 7 47.070 | 2336 | 56 | 19.06N | 93 | 9.27E | 56 | 44N | 92 | 46E | 632544 | 24596 | 154 | 13 | 26 | 23 | ND | ND | 2.699 |
| 21 | 5 7 49.410 | 2336 | 56 | 10.55N | 93 | 16.64E | 56 | 35N | 92 | 54E | 632148 | 24597 | 154 | 20 | 26 | 33 | ND | ND | 2.685 |
| 22 | 5 7 51.734 | 2324 | 56 | 2.08N | 93 | 23.90E | 56 | 27N | 93 | 1E | 631758 | 24598 | 154 | 27 | 26 | 42 | ND | ND | 2.704 |
| 23 | 5 7 54.060 | 2325 | 55 | 53.60N | 93 | 31.10E | 56 | 18N | 93 | 8E | 631369 | 24599 | 154 | 34 | 26 | 51 | ND | ND | 2.702 |
| 24 | 5 7 56.390 | 2330 | 55 | 45.09N | 93 | 38.27E | 56 | 10N | 93 | 16E | 630981 | 24600 | 154 | 41 | 27 | 1 | ND | ND | 2.697 |
| 25 | 5 7 58.709 | 2320 | 55 | 36.62N | 93 | 45.35E | 56 | 1N | 93 | 23E | 630596 | 24601 | 154 | 48 | 27 | 10 | ND | ND | 2.708 |
| 26 | 5 8 1.029 | 2320 | 55 | 28.13N | 93 | 52.37E | 55 | 52N | 93 | 30E | 630214 | 24602 | 154 | 55 | 27 | 19 | ND | ND | 2.708 |
| 27 | 5 8 3.354 | 2325 | 55 | 19.61N | 93 | 59.36E | 55 | 44N | 93 | 37E | 629831 | 24603 | 155 | 1 | 27 | 28 | ND | ND | 2.702 |
| 28 | 5 8 5.670 | 2315 | 55 | 11.13N | 94 | 6.27E | 55 | 36N | 93 | 44E | 629453 | 24604 | 155 | 8 | 27 | 38 | ND | ND | 2.714 |
| 29 | 5 8 7.979 | 2315 | 55 | 2.65N | 94 | 13.10E | 55 | 28N | 93 | 51E | 629077 | 24605 | 155 | 15 | 27 | 47 | ND | ND | 2.720 |
| 30 | 5 8 10.295 | 2315 | 54 | 54.15N | 94 | 19.90E | 55 | 19N | 93 | 58E | 628702 | 24606 | 155 | 21 | 27 | 56 | ND | ND | 2.714 |
| 31 | 5 8 12.609 | 2315 | 54 | 45.64N | 94 | 26.64E | 55 | 11N | 94 | 5E | 628329 | 24607 | 155 | 28 | 28 | 5 | ND | ND | 2.714 |
| 32 | 5 8 14.914 | 2305 | 54 | 37.17N | 94 | 33.31E | 55 | 2N | 94 | 12E | 627959 | 24608 | 155 | 34 | 28 | 15 | ND | ND | 2.726 |
| 33 | 5 8 17.220 | 2305 | 54 | 28.68N | 94 | 39.93E | 54 | 54N | 94 | 19E | 627590 | 24609 | 155 | 40 | 28 | 24 | ND | ND | 2.726 |
| 34 | 5 8 19.524 | 2305 | 54 | 20.18N | 94 | 46.50E | 54 | 45N | 94 | 26E | 627224 | 24610 | 155 | 46 | 28 | 33 | ND | ND | 2.726 |
| 35 | 5 8 21.824 | 2300 | 54 | 11.70N | 94 | 53.00E | 54 | 37N | 94 | 32E | 626861 | 24611 | 155 | 53 | 28 | 42 | ND | ND | 2.732 |
| 36 | 5 8 24.124 | 2300 | 54 | 3.21N | 94 | 59.46E | 54 | 28N | 94 | 39E | 626499 | 24612 | 155 | 59 | 28 | 52 | ND | ND | 2.732 |
| 37 | 5 8 26.425 | 2300 | 53 | 54.71N | 95 | 5.87E | 54 | 20N | 94 | 46E | 626139 | 24613 | 156 | 5 | 29 | 1 | ND | ND | 2.732 |
| 38 | 5 11 16.130 | 69705 | 43 | 12.10N | 101 | 17.33E | 43 | 37N | 101 | 4E | 604942 | 24662 | 161 | 48 | 40 | 19 | ND | ND | 0.037 |
| 39 | 5 11 19.185 | 3055 | 43 | 0.32N | 101 | 22.61E | 43 | 25N | 101 | 10E | 604665 | 24662 | 161 | 53 | 40 | 31 | ND | ND | 2.057 |
| 40 | 5 11 21.699 | 2515 | 42 | 50.61N | 101 | 26.92E | 43 | 16N | 101 | 14E | 604439 | 24663 | 161 | 57 | 40 | 41 | ND | ND | 2.498 |
| 41 | 5 11 24.060 | 2360 | 42 | 41.50N | 101 | 30.94E | 43 | 6N | 101 | 18E | 604230 | 24663 | 162 | 0 | 40 | 51 | ND | ND | 2.662 |
| 42 | 5 11 26.359 | 2300 | 42 | 32.62N | 101 | 34.84E | 42 | 58N | 101 | 22E | 604029 | 24664 | 162 | 7 | 41 | 0 | ND | ND | 2.732 |
| 43 | 5 11 28.640 | 2280 | 42 | 23.81N | 101 | 38.69E | 42 | 49N | 101 | 26E | 603831 | 24664 | 162 | 11 | 41 | 9 | ND | ND | 2.756 |
| 44 | 5 11 30.909 | 2270 | 42 | 15.03N | 101 | 42.49E | 42 | 40N | 101 | 30E | 603636 | 24665 | 162 | 11 | 41 | 18 | ND | ND | 2.768 |
| 45 | 5 11 33.170 | 2260 | 42 | 6.29N | 101 | 46.27E | 42 | 31N | 101 | 34E | 603445 | 24665 | 162 | 14 | 41 | 27 | ND | ND | 2.780 |

TOP SECRET

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| FRM | Z TIME | | DTIM | CAMERA NADIR | | | FORMAT CENTER | | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCALE | | | | | |
|-----|--------|----|--------|--------------|------|--------|---------------|--------|-----|----------|-------|---------|--------|-------|------|-----|-------|-----|------|------|-----|-------|
| | HR | MI | | SEC | MILS | DEG | MIN | LONG | DEG | | | | | | | | | MIN | LONG | FEET | F/S | DEG |
| 46 | 5 | 11 | 35.425 | 2255 | 41 | 57.57N | 101 | 50.01E | 42 | 23N | 101 | 38E | 603256 | 24666 | 162 | 17 | 41 | 36 | ND | ND | ND | 2.786 |
| 47 | 5 | 11 | 37.680 | 2255 | 41 | 48.85N | 101 | 53.73E | 42 | 14N | 101 | 41E | 603069 | 24666 | 162 | 20 | 41 | 45 | ND | ND | ND | 2.786 |
| 48 | 5 | 11 | 39.935 | 2255 | 41 | 40.12N | 101 | 57.44E | 42 | 5N | 101 | 45E | 602285 | 24667 | 162 | 24 | 41 | 54 | ND | ND | ND | 2.786 |
| 49 | 5 | 11 | 42.185 | 2254 | 41 | 31.41N | 102 | 1.11E | 41 | 56N | 101 | 49E | 602270 | 24667 | 162 | 27 | 42 | 3 | ND | ND | ND | 2.793 |
| 50 | 5 | 11 | 44.430 | 2250 | 41 | 22.71N | 102 | 4.77E | 41 | 48N | 101 | 53E | 602546 | 24667 | 162 | 30 | 42 | 12 | ND | ND | ND | 2.799 |
| 51 | 5 | 11 | 46.680 | 2246 | 41 | 13.99N | 102 | 8.40E | 41 | 39N | 101 | 56E | 602217 | 24668 | 162 | 33 | 42 | 21 | ND | ND | ND | 2.793 |
| 52 | 5 | 11 | 48.926 | 2246 | 41 | 5.29N | 102 | 12.02E | 41 | 30N | 102 | NE | 602171 | 24668 | 162 | 36 | 42 | 30 | ND | ND | ND | 2.798 |
| 53 | 5 | 11 | 51.175 | 2249 | 40 | 56.57N | 102 | 15.62E | 41 | 22N | 102 | 4E | 601998 | 24669 | 162 | 39 | 42 | 39 | ND | ND | ND | 2.794 |
| 54 | 5 | 11 | 53.415 | 2241 | 40 | 47.88N | 102 | 19.19E | 41 | 13N | 102 | 7E | 601828 | 24669 | 162 | 42 | 42 | 47 | ND | ND | ND | 2.804 |
| 55 | 5 | 11 | 55.659 | 2244 | 40 | 39.17N | 102 | 22.75E | 41 | 4N | 102 | 11E | 601659 | 24669 | 162 | 45 | 42 | 56 | ND | ND | ND | 2.800 |
| 56 | 5 | 11 | 57.904 | 2245 | 40 | 30.46N | 102 | 26.29E | 40 | 55N | 102 | 15E | 601493 | 24670 | 162 | 48 | 43 | 5 | ND | ND | ND | 2.799 |
| 57 | 5 | 12 | 0.149 | 2245 | 40 | 21.75N | 102 | 29.81E | 40 | 47N | 102 | 18E | 601329 | 24670 | 162 | 51 | 43 | 14 | ND | ND | ND | 2.799 |
| 58 | 5 | 12 | 2.385 | 2235 | 40 | 13.06N | 102 | 33.30E | 40 | 38N | 102 | 22E | 601108 | 24671 | 162 | 54 | 43 | 23 | ND | ND | ND | 2.811 |
| 59 | 5 | 12 | 4.635 | 2250 | 40 | 4.32N | 102 | 36.80E | 40 | 29N | 102 | 25E | 601008 | 24671 | 162 | 57 | 43 | 32 | ND | ND | ND | 2.793 |
| 60 | 5 | 12 | 6.874 | 2240 | 39 | 55.62N | 102 | 40.26E | 40 | 21N | 102 | 29E | 600851 | 24671 | 163 | 0 | 43 | 41 | ND | ND | ND | 2.805 |
| 61 | 5 | 12 | 9.114 | 2240 | 39 | 46.92N | 102 | 43.71E | 40 | 12N | 102 | 32E | 600696 | 24672 | 163 | 3 | 43 | 50 | ND | ND | ND | 2.805 |
| 62 | 5 | 12 | 11.354 | 2240 | 39 | 38.21N | 102 | 47.14E | 40 | 3N | 102 | 36E | 600543 | 24672 | 163 | 6 | 43 | 59 | ND | ND | ND | 2.805 |
| 63 | 5 | 12 | 13.590 | 2235 | 39 | 29.51N | 102 | 50.55E | 39 | 54N | 102 | 39E | 600393 | 24673 | 163 | 9 | 44 | 8 | ND | ND | ND | 2.811 |
| 64 | 5 | 12 | 15.834 | 2245 | 39 | 20.78N | 102 | 53.95E | 39 | 46N | 102 | 43E | 600244 | 24673 | 163 | 12 | 44 | 16 | ND | ND | ND | 2.799 |
| 65 | 5 | 12 | 18.069 | 2235 | 39 | 12.09N | 102 | 57.32E | 39 | 37N | 102 | 46E | 600099 | 24673 | 163 | 15 | 44 | 25 | ND | ND | ND | 2.811 |
| 66 | 5 | 12 | 20.310 | 2240 | 39 | 3.37N | 103 | 0.69E | 39 | 28N | 102 | 49E | 599955 | 24674 | 163 | 18 | 44 | 34 | ND | ND | ND | 2.805 |
| 67 | 5 | 12 | 22.550 | 2240 | 38 | 54.64N | 103 | 4.04E | 39 | 20N | 102 | 53E | 599813 | 24674 | 163 | 20 | 44 | 43 | ND | ND | ND | 2.805 |
| 68 | 5 | 12 | 24.789 | 2240 | 38 | 45.92N | 103 | 7.37E | 39 | 11N | 102 | 56E | 599674 | 24674 | 163 | 23 | 44 | 52 | ND | ND | ND | 2.805 |
| 69 | 5 | 21 | 39.104 | 54315 | 2 | 8.80N | 112 | 30.20E | 2 | 36N | 112 | 23E | 640809 | 24581 | 168 | 31 | 77 | 15 | ND | ND | ND | 0.811 |
| 70 | 5 | 21 | 42.340 | 3235 | 1 | 55.91N | 112 | 32.80E | 2 | 23N | 112 | 26E | 641504 | 24580 | 168 | 31 | 77 | 21 | ND | ND | ND | 1.942 |
| 71 | 5 | 21 | 45.011 | 2671 | 1 | 45.27N | 112 | 34.95E | 2 | 13N | 112 | 28E | 642081 | 24578 | 168 | 31 | 77 | 26 | ND | ND | ND | 2.352 |
| 72 | 5 | 21 | 47.529 | 2519 | 1 | 35.24N | 112 | 36.97E | 2 | 3N | 112 | 30E | 642628 | 24577 | 168 | 31 | 77 | 30 | ND | ND | ND | 2.575 |
| 73 | 5 | 21 | 49.970 | 2440 | 1 | 25.52N | 112 | 38.93E | 1 | 53N | 112 | 32E | 643162 | 24576 | 168 | 32 | 77 | 34 | ND | ND | ND | 2.575 |
| 74 | 5 | 21 | 52.398 | 2429 | 1 | 15.85N | 112 | 40.88E | 1 | 43N | 112 | 34E | 643696 | 24575 | 168 | 32 | 77 | 38 | ND | ND | ND | 2.587 |
| 75 | 5 | 21 | 54.821 | 2423 | 1 | 6.20N | 112 | 42.83E | 1 | 34N | 112 | 36E | 644231 | 24573 | 168 | 32 | 77 | 42 | ND | ND | ND | 2.593 |
| 76 | 5 | 21 | 57.240 | 2419 | 0 | 56.56N | 112 | 44.77E | 1 | 24N | 112 | 37E | 644768 | 24572 | 168 | 32 | 77 | 46 | ND | ND | ND | 2.597 |
| 77 | 5 | 21 | 59.649 | 2409 | 0 | 46.97N | 112 | 46.71E | 1 | 14N | 112 | 39E | 645306 | 24571 | 168 | 32 | 77 | 50 | ND | ND | ND | 2.608 |
| 78 | 5 | 22 | 2.051 | 2401 | 0 | 37.40N | 112 | 48.64E | 1 | 5N | 112 | 41E | 645845 | 24570 | 168 | 32 | 77 | 53 | ND | ND | ND | 2.617 |
| 79 | 5 | 22 | 4.454 | 2404 | 0 | 27.83N | 112 | 50.56E | 0 | 55N | 112 | 43E | 646387 | 24568 | 168 | 32 | 77 | 57 | ND | ND | ND | 2.614 |
| 80 | 5 | 22 | 6.859 | 2405 | 0 | 18.25N | 112 | 52.49E | 0 | 46N | 112 | 45E | 646932 | 24567 | 168 | 32 | 78 | 0 | ND | ND | ND | 2.613 |
| 81 | 5 | 22 | 9.265 | 2405 | 0 | 8.68N | 112 | 54.42E | 0 | 36N | 112 | 47E | 647480 | 24566 | 168 | 32 | 78 | 3 | ND | ND | ND | 2.613 |
| 82 | 5 | 22 | 11.664 | 2400 | 0 | 1.00S | 112 | 56.35E | 0 | 27N | 112 | 49E | 648030 | 24565 | 168 | 32 | 78 | 6 | ND | ND | ND | 2.618 |
| 83 | 5 | 22 | 14.074 | 2410 | 0 | 10.48S | 112 | 58.28E | 0 | 17N | 112 | 51E | 648584 | 24563 | 168 | 32 | 78 | 9 | ND | ND | ND | 2.607 |
| 84 | 5 | 22 | 16.480 | 2406 | 0 | 20.05S | 113 | 0.21E | 0 | 8N | 112 | 53E | 649140 | 24562 | 168 | 32 | 78 | 12 | ND | ND | ND | 2.611 |
| 85 | 5 | 22 | 18.890 | 2409 | 0 | 29.65S | 113 | 2.15E | 0 | 25 | 112 | 55E | 649700 | 24561 | 168 | 32 | 78 | 15 | ND | ND | ND | 2.608 |
| 86 | 5 | 22 | 21.300 | 2410 | 0 | 39.24S | 113 | 4.08E | 0 | 12S | 112 | 57E | 650263 | 24559 | 168 | 32 | 78 | 17 | ND | ND | ND | 2.607 |
| 87 | 5 | 22 | 23.709 | 2410 | 0 | 48.83S | 113 | 6.01E | 0 | 21S | 112 | 59E | 650828 | 24558 | 168 | 32 | 78 | 20 | ND | ND | ND | 2.607 |
| 88 | 5 | 22 | 26.124 | 2415 | 0 | 58.44S | 113 | 7.95E | 0 | 31S | 113 | 1E | 651398 | 24557 | 168 | 32 | 78 | 22 | ND | ND | ND | 2.602 |
| 89 | 5 | 22 | 28.535 | 2411 | 1 | 8.04S | 113 | 9.88E | 0 | 40S | 113 | 2E | 651969 | 24555 | 168 | 32 | 78 | 24 | ND | ND | ND | 2.606 |
| 90 | 5 | 22 | 30.949 | 2414 | 1 | 17.65S | 113 | 11.82E | 0 | 50S | 113 | 4E | 652543 | 24554 | 168 | 32 | 78 | 26 | ND | ND | ND | 2.603 |

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| FRM | Z TIME | DTIM | CAMERA NADIR | | | | FORMAT CENTER | | | | ALTIITUDE VELOC | | | | AZIMUTH SUN/ | | | | PITCH | ROLL | YAW | SCAN | | | |
|-------|--------|--------|--------------|-----------|-----|--------|---------------|-----|-----|-----|-----------------|-------|------|-----|--------------|----|-----|----|-------|-------|-----|------|-----|-----|------|
| HR MI | SEC | MILS | DEG | LAT | DEG | MIN | DEG | LAT | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MI | DEG | MIN | DEG | MIN | DEG | MIN | RATE |
| 91 | 5 22 | 33.369 | 2420 | 1 27.285 | 113 | 13.76E | 0 | 59S | 113 | 6E | 653122 | 24553 | 168 | 32 | 78 | 28 | ND | ND | ND | 2.596 | | | | | |
| 92 | 5 22 | 35.789 | 2420 | 1 36.915 | 113 | 15.71E | 1 | 9S | 113 | 8E | 653704 | 24551 | 168 | 32 | 78 | 30 | ND | ND | ND | 2.596 | | | | | |
| 93 | 5 22 | 38.209 | 2420 | 1 46.545 | 113 | 17.65E | 1 | 19S | 113 | 10E | 654288 | 24550 | 168 | 32 | 78 | 31 | ND | ND | ND | 2.596 | | | | | |
| 94 | 5 22 | 40.635 | 2425 | 1 56.195 | 113 | 19.59E | 1 | 28S | 113 | 12E | 654876 | 24549 | 168 | 31 | 78 | 33 | ND | ND | ND | 2.591 | | | | | |
| 95 | 5 22 | 43.056 | 2421 | 2 5.825 | 113 | 21.54E | 1 | 38S | 113 | 14E | 655466 | 24547 | 168 | 31 | 78 | 34 | ND | ND | ND | 2.595 | | | | | |
| 96 | 5 22 | 45.484 | 2429 | 2 15.485 | 113 | 23.49E | 1 | 48S | 113 | 16E | 656060 | 24546 | 168 | 31 | 78 | 35 | ND | ND | ND | 2.587 | | | | | |
| 97 | 5 22 | 47.910 | 2426 | 2 25.135 | 113 | 25.44E | 1 | 57S | 113 | 18E | 656657 | 24545 | 168 | 31 | 78 | 37 | ND | ND | ND | 2.598 | | | | | |
| 98 | 5 22 | 50.345 | 2434 | 2 34.825 | 113 | 27.39E | 2 | 7S | 113 | 20E | 657258 | 24543 | 168 | 31 | 78 | 37 | ND | ND | ND | 2.581 | | | | | |
| 99 | 5 22 | 52.774 | 2430 | 2 44.485 | 113 | 29.35E | 2 | 16S | 113 | 22E | 657861 | 24542 | 168 | 31 | 78 | 38 | ND | ND | ND | 2.586 | | | | | |
| 00 | 5 22 | 55.212 | 2437 | 2 54.185 | 113 | 31.31E | 2 | 26S | 113 | 24E | 658469 | 24540 | 168 | 31 | 78 | 39 | ND | ND | ND | 2.578 | | | | | |
| 01 | 5 22 | 57.649 | 2438 | 3 3.875 | 113 | 33.27E | 2 | 36S | 113 | 26E | 659079 | 24539 | 168 | 31 | 78 | 39 | ND | ND | ND | 2.577 | | | | | |
| 02 | 5 23 | 0.085 | 2436 | 3 13.565 | 113 | 35.22E | 2 | 45S | 113 | 28E | 659692 | 24538 | 168 | 30 | 78 | 40 | ND | ND | ND | 2.579 | | | | | |
| 03 | 5 23 | 2.529 | 2444 | 3 23.285 | 113 | 37.19E | 2 | 55S | 113 | 30E | 660309 | 24536 | 168 | 30 | 78 | 40 | ND | ND | ND | 2.571 | | | | | |
| 04 | 5 23 | 4.975 | 2444 | 3 33.005 | 113 | 39.16E | 3 | 5S | 113 | 32E | 660929 | 24535 | 168 | 30 | 78 | 40 | ND | ND | ND | 2.570 | | | | | |
| 05 | 5 23 | 7.420 | 2446 | 3 42.725 | 113 | 41.13E | 3 | 15S | 113 | 34E | 661552 | 24533 | 168 | 30 | 78 | 40 | ND | ND | ND | 2.569 | | | | | |
| 06 | 5 23 | 9.868 | 2449 | 3 52.465 | 113 | 43.10E | 3 | 24S | 113 | 36E | 662179 | 24532 | 168 | 30 | 78 | 40 | ND | ND | ND | 2.566 | | | | | |
| 07 | 5 23 | 12.318 | 2450 | 4 2.205 | 113 | 45.08E | 3 | 34S | 113 | 38E | 662809 | 24530 | 168 | 29 | 78 | 39 | ND | ND | ND | 2.565 | | | | | |
| 08 | 5 23 | 14.773 | 2455 | 4 11.965 | 113 | 47.06E | 3 | 44S | 113 | 39E | 663442 | 24529 | 168 | 29 | 78 | 39 | ND | ND | ND | 2.559 | | | | | |
| 09 | 5 23 | 17.224 | 2450 | 4 21.705 | 113 | 49.03E | 6 | 53S | 113 | 41E | 664078 | 24527 | 168 | 29 | 78 | 38 | ND | ND | ND | 2.565 | | | | | |
| 10 | 5 23 | 19.678 | 2449 | 5 56.655 | 114 | 20.66E | 6 | 28S | 114 | 13E | 674549 | 24503 | 168 | 24 | 78 | 9 | ND | ND | ND | 0.161 | | | | | |
| 11 | 5 23 | 59.543 | 33011 | 7 9.785 | 114 | 23.35E | 6 | 41S | 114 | 16E | 675668 | 24501 | 168 | 24 | 78 | 5 | ND | ND | ND | 1.899 | | | | | |
| 12 | 5 24 | 2.328 | 2785 | 7 28.835 | 114 | 25.63E | 6 | 52S | 114 | 18E | 676245 | 24499 | 168 | 23 | 78 | 1 | ND | ND | ND | 2.266 | | | | | |
| 13 | 5 24 | 4.964 | 2635 | 7 31.295 | 114 | 27.78E | 7 | 2S | 114 | 20E | 676983 | 24498 | 168 | 23 | 77 | 58 | ND | ND | ND | 2.385 | | | | | |
| 14 | 5 24 | 7.532 | 2569 | 7 41.485 | 114 | 29.88E | 7 | 13S | 114 | 22E | 677706 | 24496 | 168 | 22 | 77 | 54 | ND | ND | ND | 2.446 | | | | | |
| 15 | 5 24 | 10.094 | 2561 | 7 51.655 | 114 | 31.98E | 7 | 23S | 114 | 24E | 678429 | 24494 | 168 | 22 | 77 | 50 | ND | ND | ND | 2.453 | | | | | |
| 16 | 5 24 | 12.647 | 2554 | 8 1.785 | 114 | 34.07E | 7 | 33S | 114 | 26E | 679152 | 24493 | 168 | 21 | 77 | 46 | ND | ND | ND | 2.460 | | | | | |
| 17 | 5 24 | 15.203 | 2556 | 8 11.915 | 114 | 36.17E | 7 | 43S | 114 | 28E | 679879 | 24491 | 168 | 21 | 77 | 42 | ND | ND | ND | 2.458 | | | | | |
| 18 | 5 24 | 17.748 | 2545 | 8 22.015 | 114 | 38.26E | 7 | 53S | 114 | 30E | 680606 | 24489 | 168 | 20 | 77 | 38 | ND | ND | ND | 2.469 | | | | | |
| 19 | 5 24 | 20.293 | 2545 | 8 32.105 | 114 | 40.35E | 8 | 3S | 114 | 32E | 681336 | 24488 | 168 | 20 | 77 | 34 | ND | ND | ND | 2.469 | | | | | |
| 20 | 5 24 | 22.839 | 2545 | 8 42.195 | 114 | 42.45E | 8 | 13S | 114 | 35E | 682068 | 24486 | 168 | 19 | 77 | 30 | ND | ND | ND | 2.469 | | | | | |
| 21 | 5 24 | 25.384 | 2545 | 8 52.285 | 114 | 44.55E | 8 | 23S | 114 | 37E | 682803 | 24484 | 168 | 19 | 77 | 25 | ND | ND | ND | 2.469 | | | | | |
| 22 | 5 24 | 27.934 | 2550 | 9 2.395 | 114 | 46.65E | 8 | 33S | 114 | 39E | 683542 | 24482 | 168 | 18 | 77 | 21 | ND | ND | ND | 2.464 | | | | | |
| 23 | 5 24 | 30.483 | 2550 | 9 12.505 | 114 | 48.75E | 8 | 43S | 114 | 41E | 684284 | 24481 | 168 | 18 | 77 | 16 | ND | ND | ND | 2.464 | | | | | |
| 24 | 5 24 | 33.038 | 2555 | 9 22.635 | 114 | 50.87E | 8 | 53S | 114 | 43E | 685030 | 24479 | 168 | 17 | 77 | 11 | ND | ND | ND | 2.459 | | | | | |
| 25 | 5 24 | 35.595 | 2556 | 9 32.765 | 114 | 52.98E | 9 | 4S | 114 | 45E | 685779 | 24477 | 168 | 17 | 77 | 6 | ND | ND | ND | 2.458 | | | | | |
| 26 | 5 24 | 38.149 | 2555 | 9 42.885 | 114 | 55.10E | 9 | 14S | 114 | 47E | 686530 | 24476 | 168 | 16 | 77 | 1 | ND | ND | ND | 2.459 | | | | | |
| 27 | 5 24 | 40.708 | 2559 | 9 53.025 | 114 | 57.22E | 9 | 24S | 114 | 49E | 687285 | 24474 | 168 | 16 | 76 | 56 | ND | ND | ND | 2.455 | | | | | |
| 28 | 5 24 | 43.269 | 2560 | 10 3.165 | 114 | 59.35E | 9 | 34S | 114 | 51E | 688043 | 24472 | 168 | 15 | 76 | 51 | ND | ND | ND | 2.454 | | | | | |
| 29 | 5 24 | 45.828 | 2560 | 10 13.305 | 115 | 1.48E | 9 | 44S | 114 | 53E | 688804 | 24470 | 168 | 15 | 76 | 46 | ND | ND | ND | 2.454 | | | | | |
| 30 | 5 24 | 48.397 | 2569 | 10 23.485 | 115 | 3.62E | 9 | 54S | 114 | 56E | 689570 | 24469 | 168 | 14 | 76 | 40 | ND | ND | ND | 2.446 | | | | | |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED
MISSION 1017-2

LIST DATE 10MAY65 PAGE 126

PASS 1180 AFT SMAR65

| FRM | 2 TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | | | |
|-----|--------|------|---------|---------|---------|---------|----------|--------|---------|--------|---------|---------|---------|-------|-----|----|----|-------|-------|
| HR | MI | SEC | DEG MIN | DEG MIN | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE | | | | | |
| 1 | 6 | 37 | 22.493 | 57 | 14.40N | 69 | 39.84E | 57 | 39N | 69 | 15E | 634600 | 24591 | 153 | 25 | 25 | 20 | 2.027 | |
| 2 | 6 | 37 | 25.594 | 57 | 3.19N | 69 | 58.11E | 57 | 28N | 69 | 26E | 634064 | 24592 | 153 | 35 | 25 | 33 | 2.027 | |
| 3 | 6 | 37 | 28.189 | 2596 | 56 | 53.80N | 69 | 58.63E | 57 | 19N | 69 | 35E | 633619 | 24593 | 153 | 43 | 25 | 43 | 2.420 |
| 4 | 6 | 37 | 30.644 | 2454 | 56 | 44.91N | 70 | 6.62E | 57 | 10N | 69 | 43E | 633200 | 24594 | 153 | 51 | 25 | 53 | 2.560 |
| 5 | 6 | 37 | 33.027 | 2384 | 56 | 36.26N | 70 | 14.31E | 57 | 1N | 69 | 51E | 632793 | 24595 | 153 | 58 | 26 | 2 | 2.636 |
| 6 | 6 | 37 | 35.398 | 2371 | 56 | 27.65N | 70 | 21.94E | 56 | 52N | 69 | 59E | 632392 | 24596 | 154 | 6 | 26 | 12 | 2.650 |
| 7 | 6 | 37 | 37.743 | 2345 | 56 | 19.12N | 70 | 29.34E | 56 | 44N | 70 | 6E | 631997 | 24597 | 154 | 13 | 26 | 21 | 2.679 |
| 8 | 6 | 37 | 40.078 | 2335 | 56 | 10.63N | 70 | 36.70E | 56 | 35N | 70 | 14E | 631605 | 24598 | 154 | 20 | 26 | 31 | 2.691 |
| 9 | 6 | 37 | 42.403 | 2325 | 56 | 2.15N | 70 | 43.96E | 56 | 27N | 70 | 21E | 631217 | 24599 | 154 | 27 | 26 | 40 | 2.702 |
| 10 | 6 | 37 | 44.729 | 2325 | 55 | 53.67N | 70 | 51.17E | 56 | 18N | 70 | 29E | 630830 | 24600 | 154 | 34 | 26 | 49 | 2.702 |
| 11 | 6 | 37 | 47.043 | 2315 | 55 | 45.22N | 70 | 58.29E | 56 | 10N | 70 | 36E | 630447 | 24601 | 154 | 41 | 26 | 59 | 2.714 |
| 12 | 6 | 37 | 49.354 | 2310 | 55 | 36.78N | 71 | 5.34E | 56 | 2N | 70 | 43E | 630066 | 24602 | 154 | 48 | 27 | 8 | 2.720 |
| 13 | 6 | 37 | 51.663 | 2310 | 55 | 28.33N | 71 | 12.34E | 55 | 53N | 70 | 50E | 629687 | 24602 | 154 | 54 | 27 | 17 | 2.720 |
| 14 | 6 | 37 | 53.974 | 2310 | 55 | 19.87N | 71 | 19.29E | 55 | 45N | 70 | 57E | 629310 | 24603 | 155 | 1 | 27 | 26 | 2.720 |
| 15 | 6 | 37 | 56.278 | 2305 | 55 | 11.42N | 71 | 26.16E | 55 | 36N | 71 | 4E | 628935 | 24604 | 155 | 8 | 27 | 36 | 2.726 |
| 16 | 6 | 37 | 58.578 | 2300 | 55 | 2.99N | 71 | 32.97E | 55 | 28N | 71 | 11E | 628563 | 24605 | 155 | 14 | 27 | 45 | 2.732 |
| 17 | 6 | 38 | 0.873 | 2295 | 54 | 54.56N | 71 | 39.71E | 55 | 19N | 71 | 18E | 628194 | 24606 | 155 | 21 | 27 | 54 | 2.738 |
| 18 | 6 | 38 | 3.174 | 2300 | 54 | 46.10N | 71 | 46.42E | 55 | 11N | 71 | 25E | 627825 | 24607 | 155 | 27 | 28 | 3 | 2.738 |
| 19 | 6 | 38 | 5.469 | 2295 | 54 | 37.66N | 71 | 53.06E | 55 | 3N | 71 | 32E | 627459 | 24608 | 155 | 33 | 28 | 13 | 2.738 |
| 20 | 6 | 38 | 7.759 | 2290 | 54 | 29.23N | 71 | 59.64E | 54 | 46N | 71 | 39E | 627095 | 24609 | 155 | 40 | 28 | 22 | 2.744 |
| 21 | 6 | 38 | 10.049 | 2290 | 54 | 20.79N | 72 | 6.17E | 54 | 46N | 71 | 45E | 626709 | 24609 | 155 | 46 | 28 | 31 | 2.744 |
| 22 | 6 | 38 | 12.339 | 2285 | 54 | 12.34N | 72 | 12.65E | 54 | 37N | 71 | 52E | 626374 | 24609 | 155 | 52 | 28 | 40 | 2.744 |
| 23 | 6 | 38 | 14.623 | 2285 | 54 | 3.91N | 72 | 19.07E | 54 | 29N | 71 | 59E | 626017 | 24610 | 155 | 58 | 28 | 49 | 2.750 |
| 24 | 6 | 38 | 16.903 | 2280 | 53 | 55.49N | 72 | 25.43E | 54 | 20N | 72 | 5E | 625663 | 24612 | 156 | 4 | 28 | 58 | 2.756 |
| 25 | 6 | 38 | 19.185 | 2281 | 53 | 47.05N | 72 | 31.75E | 54 | 12N | 72 | 12E | 625309 | 24613 | 156 | 10 | 29 | 8 | 2.755 |
| 26 | 6 | 38 | 21.469 | 2284 | 53 | 38.60N | 72 | 38.02E | 54 | 3N | 72 | 18E | 624957 | 24614 | 156 | 16 | 29 | 17 | 2.751 |
| 27 | 6 | 38 | 23.746 | 2278 | 53 | 30.16N | 72 | 44.24E | 53 | 55N | 72 | 24E | 624608 | 24614 | 156 | 22 | 29 | 26 | 2.758 |
| 28 | 6 | 38 | 26.023 | 2277 | 53 | 21.72N | 72 | 50.41E | 53 | 47N | 72 | 31E | 624261 | 24615 | 156 | 28 | 29 | 35 | 2.759 |
| 29 | 6 | 38 | 28.299 | 2275 | 53 | 13.28N | 72 | 56.53E | 53 | 38N | 72 | 37E | 623916 | 24616 | 156 | 34 | 29 | 44 | 2.762 |
| 30 | 6 | 38 | 30.573 | 2275 | 53 | 4.83N | 73 | 2.61E | 53 | 30N | 72 | 43E | 623572 | 24617 | 156 | 40 | 29 | 53 | 2.762 |
| 31 | 6 | 38 | 32.844 | 2270 | 52 | 56.40N | 73 | 8.63E | 53 | 21N | 72 | 49E | 623232 | 24618 | 156 | 45 | 30 | 2 | 2.768 |
| 32 | 6 | 38 | 35.118 | 2275 | 52 | 47.94N | 73 | 14.62E | 53 | 13N | 72 | 55E | 622892 | 24619 | 156 | 51 | 30 | 11 | 2.762 |
| 33 | 6 | 38 | 37.389 | 2270 | 52 | 39.49N | 73 | 20.55E | 53 | 4N | 73 | 1E | 622555 | 24619 | 156 | 57 | 30 | 21 | 2.768 |
| 34 | 6 | 38 | 39.653 | 2265 | 52 | 31.06N | 73 | 26.44E | 52 | 56N | 73 | 7E | 622220 | 24620 | 157 | 2 | 30 | 30 | 2.774 |
| 35 | 6 | 38 | 41.918 | 2265 | 52 | 22.62N | 73 | 32.27E | 52 | 48N | 73 | 13E | 621887 | 24621 | 157 | 8 | 30 | 39 | 2.774 |
| 36 | 6 | 38 | 44.184 | 2265 | 52 | 14.17N | 73 | 38.08E | 52 | 39N | 73 | 19E | 621557 | 24622 | 157 | 13 | 30 | 48 | 2.774 |
| 37 | 6 | 38 | 46.453 | 2270 | 52 | 5.69N | 73 | 43.85E | 52 | 31N | 73 | 25E | 621227 | 24622 | 157 | 19 | 30 | 57 | 2.768 |
| 38 | 6 | 38 | 48.714 | 2260 | 51 | 57.25N | 73 | 49.56E | 52 | 22N | 73 | 31E | 620900 | 24623 | 157 | 24 | 31 | 6 | 2.780 |
| 39 | 6 | 38 | 50.979 | 2265 | 51 | 48.79N | 74 | 5.24E | 52 | 14N | 73 | 37E | 620575 | 24624 | 157 | 29 | 31 | 15 | 2.774 |
| 40 | 6 | 38 | 53.238 | 2260 | 51 | 40.33N | 74 | 0.87E | 52 | 5N | 73 | 43E | 620251 | 24625 | 157 | 35 | 31 | 24 | 2.780 |
| 41 | 6 | 38 | 55.498 | 2260 | 51 | 31.88N | 74 | 6.46E | 51 | 57N | 73 | 48E | 619930 | 24626 | 157 | 40 | 31 | 33 | 2.780 |
| 42 | 6 | 38 | 57.755 | 2256 | 51 | 23.42N | 74 | 12.01E | 51 | 48N | 74 | 54E | 619611 | 24626 | 157 | 45 | 31 | 42 | 2.785 |
| 43 | 6 | 39 | 0.011 | 2256 | 51 | 14.97N | 74 | 17.51E | 51 | 40N | 74 | 0E | 619295 | 24627 | 157 | 50 | 31 | 51 | 2.785 |
| 44 | 6 | 39 | 2.268 | 2257 | 51 | 6.50N | 74 | 22.99E | 51 | 31N | 74 | 5E | 618980 | 24628 | 157 | 56 | 32 | 0 | 2.784 |
| 45 | 6 | 39 | 4.531 | 2264 | 50 | 58.01N | 74 | 28.44E | 51 | 23N | 74 | 11E | 618666 | 24629 | 158 | 1 | 32 | 9 | 2.775 |

TOP SECRET

HANDLE VIA
SALVAGE

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

CS 04000-04

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

| FRM | HR | MI | SEC | DTIM | MILS | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-----|----|----|--------|------|------|--------|-----|--------|------|-----|-----|-----|--------|----------|-------|---------|------|-------|------|-----|-------|
| 46 | 6 | 39 | 6.786 | 2255 | 50 | 49.54N | 74 | 33.83E | 51 | 14N | 74 | 16E | 618355 | 24629 | 158 | 6 | 32 | 18 | ND | ND | 2.786 |
| 47 | 6 | 39 | 9.043 | 2257 | 50 | 41.06N | 74 | 39.20E | 51 | 6N | 74 | 22E | 618045 | 24630 | 158 | 11 | 32 | 27 | ND | ND | 2.784 |
| 48 | 6 | 39 | 11.299 | 2255 | 50 | 32.58N | 74 | 44.53E | 50 | 58N | 74 | 27E | 617737 | 24631 | 158 | 16 | 32 | 36 | ND | ND | 2.786 |
| 49 | 6 | 39 | 13.554 | 2255 | 50 | 24.09N | 74 | 49.82E | 50 | 49N | 74 | 33E | 617432 | 24631 | 158 | 21 | 32 | 45 | ND | ND | 2.786 |
| 50 | 6 | 39 | 15.809 | 2255 | 50 | 15.60N | 74 | 55.07E | 50 | 41N | 74 | 38E | 617128 | 24632 | 158 | 26 | 32 | 54 | ND | ND | 2.786 |
| 51 | 6 | 39 | 18.059 | 2250 | 50 | 7.13N | 75 | 0.20E | 50 | 32N | 74 | 43E | 616827 | 24633 | 158 | 30 | 33 | 3 | ND | ND | 2.793 |
| 52 | 6 | 39 | 20.313 | 2255 | 49 | 58.63N | 75 | 5.47E | 50 | 24N | 74 | 49E | 616527 | 24634 | 158 | 35 | 33 | 12 | ND | ND | 2.786 |
| 53 | 6 | 39 | 22.568 | 2255 | 49 | 50.12N | 75 | 10.62E | 50 | 15N | 74 | 54E | 616229 | 24635 | 158 | 40 | 33 | 22 | ND | ND | 2.793 |
| 54 | 6 | 39 | 24.818 | 2250 | 49 | 41.63N | 75 | 15.73E | 50 | 7N | 74 | 59E | 615934 | 24635 | 158 | 45 | 33 | 31 | ND | ND | 2.793 |
| 55 | 6 | 39 | 27.063 | 2245 | 49 | 33.15N | 75 | 20.79E | 49 | 58N | 75 | 4E | 615640 | 24636 | 158 | 50 | 33 | 40 | ND | ND | 2.799 |
| 56 | 6 | 39 | 29.313 | 2250 | 49 | 24.65N | 75 | 25.84E | 49 | 50N | 75 | 9E | 615349 | 24636 | 158 | 54 | 33 | 49 | ND | ND | 2.793 |
| 57 | 6 | 39 | 31.563 | 2250 | 49 | 16.15N | 75 | 30.85E | 49 | 41N | 75 | 15E | 615059 | 24637 | 158 | 59 | 33 | 58 | ND | ND | 2.793 |
| 58 | 6 | 39 | 33.813 | 2250 | 49 | 7.63N | 75 | 35.83E | 49 | 33N | 75 | 20E | 614771 | 24638 | 159 | 4 | 34 | 7 | ND | ND | 2.793 |
| 59 | 6 | 39 | 36.059 | 2245 | 48 | 59.14N | 75 | 40.77E | 49 | 24N | 75 | 25E | 614486 | 24639 | 159 | 8 | 34 | 16 | ND | ND | 2.799 |
| 60 | 6 | 39 | 38.304 | 2245 | 48 | 50.63N | 75 | 45.67E | 49 | 16N | 75 | 30E | 614202 | 24639 | 159 | 13 | 34 | 25 | ND | ND | 2.793 |
| 61 | 6 | 39 | 40.554 | 2250 | 48 | 42.11N | 75 | 50.56E | 49 | 7N | 75 | 35E | 613920 | 24640 | 159 | 17 | 34 | 34 | ND | ND | 2.794 |
| 62 | 6 | 39 | 42.803 | 2249 | 48 | 33.58N | 75 | 55.42E | 48 | 59N | 75 | 40E | 613640 | 24641 | 159 | 22 | 34 | 42 | ND | ND | 2.798 |
| 63 | 6 | 39 | 45.049 | 2246 | 48 | 25.06N | 76 | 0.23E | 48 | 50N | 75 | 45E | 613362 | 24641 | 159 | 26 | 34 | 52 | ND | ND | 2.799 |
| 64 | 6 | 39 | 47.293 | 2245 | 48 | 16.54N | 76 | 5.02E | 48 | 42N | 75 | 49E | 613087 | 24642 | 159 | 31 | 35 | 0 | ND | ND | 2.799 |
| 65 | 6 | 39 | 49.538 | 2245 | 48 | 8.02N | 76 | 9.78E | 48 | 33N | 75 | 54E | 612813 | 24642 | 159 | 35 | 35 | 9 | ND | ND | 2.799 |
| 66 | 6 | 39 | 51.783 | 2245 | 47 | 59.49N | 76 | 14.50E | 48 | 24N | 75 | 59E | 612541 | 24643 | 159 | 39 | 35 | 18 | ND | ND | 2.805 |
| 67 | 6 | 39 | 54.023 | 2240 | 47 | 50.97N | 76 | 19.19E | 47 | 16N | 76 | 4E | 612272 | 24644 | 159 | 44 | 35 | 27 | ND | ND | 2.805 |
| 68 | 6 | 39 | 56.264 | 2240 | 47 | 42.45N | 76 | 23.85E | 47 | 7N | 76 | 9E | 612004 | 24644 | 159 | 48 | 35 | 36 | ND | ND | 2.805 |
| 69 | 6 | 39 | 58.509 | 2245 | 47 | 33.91N | 76 | 28.49E | 47 | 59N | 76 | 13E | 611778 | 24645 | 159 | 52 | 35 | 45 | ND | ND | 2.805 |
| 70 | 6 | 40 | 0.754 | 2245 | 47 | 25.36N | 76 | 33.11E | 47 | 50N | 76 | 18E | 611474 | 24646 | 159 | 56 | 35 | 54 | ND | ND | 2.799 |
| 71 | 6 | 40 | 2.998 | 2245 | 47 | 16.82N | 76 | 37.69E | 47 | 42N | 76 | 23E | 611212 | 24646 | 160 | 1 | 36 | 3 | ND | ND | 2.799 |
| 72 | 6 | 40 | 5.233 | 2245 | 47 | 8.30N | 76 | 42.23E | 47 | 33N | 76 | 27E | 610953 | 24647 | 160 | 5 | 36 | 12 | ND | ND | 2.811 |
| 73 | 6 | 40 | 7.479 | 2245 | 46 | 59.74N | 76 | 46.76E | 47 | 25N | 76 | 32E | 610695 | 24648 | 160 | 9 | 36 | 21 | ND | ND | 2.805 |
| 74 | 6 | 40 | 9.719 | 2240 | 46 | 51.19N | 76 | 51.26E | 47 | 16N | 76 | 37E | 610440 | 24648 | 160 | 13 | 36 | 30 | ND | ND | 2.805 |
| 75 | 6 | 40 | 11.958 | 2240 | 46 | 42.65N | 76 | 55.73E | 47 | 8N | 76 | 41E | 610186 | 24649 | 160 | 17 | 36 | 39 | ND | ND | 2.805 |
| 76 | 6 | 40 | 14.198 | 2240 | 46 | 34.09N | 77 | 0.17E | 46 | 59N | 76 | 46E | 609934 | 24649 | 160 | 21 | 36 | 48 | ND | ND | 2.805 |
| 77 | 6 | 40 | 16.438 | 2240 | 46 | 25.53N | 77 | 4.58E | 46 | 51N | 76 | 50E | 609685 | 24650 | 160 | 25 | 36 | 57 | ND | ND | 2.805 |
| 78 | 6 | 40 | 18.679 | 2240 | 46 | 16.97N | 77 | 8.97E | 46 | 42N | 76 | 55E | 609437 | 24651 | 160 | 29 | 37 | 6 | ND | ND | 2.805 |
| 79 | 6 | 40 | 20.918 | 2240 | 46 | 8.41N | 77 | 13.34E | 46 | 33N | 76 | 59E | 609191 | 24651 | 160 | 33 | 37 | 15 | ND | ND | 2.805 |
| 80 | 6 | 40 | 23.158 | 2240 | 45 | 59.84N | 77 | 17.68E | 46 | 25N | 77 | 3E | 608947 | 24652 | 160 | 37 | 37 | 24 | ND | ND | 2.805 |
| 81 | 6 | 40 | 25.398 | 2240 | 45 | 51.27N | 77 | 21.99E | 46 | 16N | 77 | 8E | 608707 | 24652 | 160 | 41 | 37 | 33 | ND | ND | 2.805 |
| 82 | 6 | 40 | 27.639 | 2240 | 45 | 42.69N | 77 | 26.28E | 46 | 8N | 77 | 12E | 608467 | 24653 | 160 | 45 | 37 | 42 | ND | ND | 2.805 |
| 83 | 6 | 40 | 29.879 | 2240 | 45 | 34.11N | 77 | 30.55E | 45 | 59N | 77 | 17E | 608229 | 24653 | 160 | 49 | 37 | 51 | ND | ND | 2.805 |
| 84 | 6 | 40 | 32.113 | 2235 | 45 | 25.55N | 77 | 34.78E | 45 | 51N | 77 | 21E | 607994 | 24654 | 160 | 52 | 38 | 9 | ND | ND | 2.811 |
| 85 | 6 | 40 | 34.354 | 2240 | 45 | 16.96N | 77 | 38.99E | 45 | 42N | 77 | 25E | 607761 | 24655 | 160 | 56 | 38 | 8 | ND | ND | 2.805 |
| 86 | 6 | 40 | 36.594 | 2240 | 45 | 8.37N | 77 | 43.19E | 45 | 33N | 77 | 29E | 607529 | 24655 | 161 | 0 | 38 | 18 | ND | ND | 2.805 |
| 87 | 6 | 40 | 38.828 | 2235 | 44 | 59.88N | 77 | 47.35E | 45 | 25N | 77 | 34E | 607300 | 24656 | 161 | 4 | 38 | 26 | ND | ND | 2.811 |
| 88 | 6 | 40 | 41.063 | 2235 | 44 | 51.22N | 77 | 51.48E | 45 | 16N | 77 | 38E | 607073 | 24656 | 161 | 7 | 38 | 35 | ND | ND | 2.811 |
| 89 | 6 | 40 | 43.299 | 2235 | 44 | 42.63N | 77 | 55.60E | 45 | 8N | 77 | 42E | 606848 | 24657 | 161 | 11 | 38 | 44 | ND | ND | 2.811 |
| 90 | 6 | 40 | 45.534 | 2236 | 44 | 34.04N | 77 | 59.69E | 44 | 59N | 77 | 46E | 606626 | 24657 | 161 | 15 | 38 | 53 | ND | ND | 2.810 |

PASS 1180 AFT SMAR65
CAMERA NADIR
FORMAT CENTER
MISSION 1017-2
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HANDLE VIA

PASS 1180 AFT 5MAR65

| FRM | Z TIME HR MI SEC | DTIM MILS | CAMERA | | | NADIR | | | FORMAT | | | CENTER | | | ALTITUDE | | | VELOC | | | AZIMUTH | | | PITCH | ROLL | YAW | SCAN RATE |
|-----|---------------------|--------------|--------|-----|--------|-------|--------|------|--------|-----|------|--------|-------|------|----------|-----|------|-------|-----|------|---------|-----|------|-------|------|-------|--------------|
| | | | DEG | MIN | LONG | DEG | MIN | LONG | DEG | MIN | LONG | DEG | MIN | LONG | DEG | MIN | LONG | DEG | MIN | LONG | DEG | MIN | LONG | | | | |
| 91 | 6 40 | 47.773 | 2239 | 44 | 25.44N | 78 | 3.76E | 44 | 50N | 77 | 50E | 606404 | 24658 | 161 | 18 | 39 | 2 | ND | ND | ND | ND | ND | ND | ND | ND | 2.806 | |
| 92 | 6 40 | 50.004 | 2230 | 44 | 16.86N | 78 | 7.80E | 44 | 42N | 77 | 54E | 606186 | 24658 | 161 | 22 | 39 | 11 | ND | ND | ND | ND | ND | ND | ND | ND | 2.818 | |
| 93 | 6 40 | 52.238 | 2235 | 44 | 8.27N | 78 | 11.82E | 44 | 33N | 77 | 59E | 605969 | 24659 | 161 | 26 | 39 | 20 | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 | |
| 94 | 6 40 | 54.474 | 2235 | 43 | 59.67N | 78 | 15.82E | 44 | 25N | 78 | 3E | 605755 | 24659 | 161 | 29 | 39 | 29 | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 | |
| 95 | 6 40 | 56.708 | 2235 | 43 | 51.07N | 78 | 19.80E | 44 | 16N | 78 | 7E | 605542 | 24660 | 161 | 33 | 39 | 38 | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 | |
| 96 | 6 43 | 8.252 | 31545 | 35 | 19.73N | 81 | 41.86E | 35 | 45N | 81 | 32E | 596840 | 24681 | 164 | 24 | 48 | 20 | ND | ND | ND | ND | ND | ND | ND | ND | 0.048 | |
| 97 | 6 43 | 11.308 | 3055 | 35 | 7.76N | 81 | 45.93E | 35 | 33N | 81 | 36E | 596730 | 24681 | 164 | 27 | 48 | 32 | ND | ND | ND | ND | ND | ND | ND | ND | 2.057 | |
| 98 | 6 43 | 13.792 | 2485 | 34 | 58.02N | 81 | 49.22E | 35 | 23N | 81 | 39E | 596644 | 24682 | 164 | 30 | 48 | 42 | ND | ND | ND | ND | ND | ND | ND | ND | 2.528 | |
| 99 | 6 43 | 16.127 | 2335 | 34 | 48.86N | 81 | 52.30E | 35 | 14N | 81 | 42E | 596566 | 24682 | 164 | 32 | 48 | 51 | ND | ND | ND | ND | ND | ND | ND | ND | 2.691 | |
| 100 | 6 43 | 18.412 | 2285 | 34 | 39.90N | 81 | 55.30E | 35 | 5N | 81 | 45E | 596492 | 24682 | 164 | 34 | 49 | 1 | ND | ND | ND | ND | ND | ND | ND | ND | 2.750 | |
| 101 | 6 43 | 20.674 | 2261 | 34 | 31.03N | 81 | 58.26E | 34 | 56N | 81 | 48E | 596421 | 24682 | 164 | 37 | 49 | 9 | ND | ND | ND | ND | ND | ND | ND | ND | 2.779 | |
| 102 | 6 43 | 22.928 | 2254 | 34 | 22.19N | 82 | 1.19E | 34 | 47N | 81 | 51E | 596353 | 24682 | 164 | 39 | 49 | 18 | ND | ND | ND | ND | ND | ND | ND | ND | 2.788 | |
| 103 | 6 43 | 25.178 | 2250 | 34 | 13.36N | 82 | 4.11E | 34 | 38N | 81 | 54E | 596287 | 24682 | 164 | 41 | 49 | 27 | ND | ND | ND | ND | ND | ND | ND | ND | 2.793 | |
| 104 | 6 43 | 27.423 | 2245 | 34 | 4.54N | 82 | 7.01E | 34 | 30N | 81 | 57E | 596224 | 24683 | 164 | 44 | 49 | 36 | ND | ND | ND | ND | ND | ND | ND | ND | 2.799 | |
| 105 | 6 43 | 29.662 | 2240 | 33 | 55.75N | 82 | 9.88E | 34 | 21N | 82 | 0E | 596163 | 24683 | 164 | 46 | 49 | 45 | ND | ND | ND | ND | ND | ND | ND | ND | 2.805 | |
| 106 | 6 43 | 31.902 | 2240 | 33 | 46.96N | 82 | 12.75E | 34 | 12N | 82 | 3E | 596105 | 24683 | 164 | 48 | 49 | 54 | ND | ND | ND | ND | ND | ND | ND | ND | 2.805 | |
| 107 | 6 43 | 34.143 | 2244 | 33 | 38.16N | 82 | 15.61E | 34 | 3N | 82 | 6E | 596049 | 24683 | 164 | 50 | 50 | 3 | ND | ND | ND | ND | ND | ND | ND | ND | 2.805 | |
| 108 | 6 43 | 36.379 | 2230 | 33 | 29.37N | 82 | 18.45E | 33 | 54N | 82 | 9E | 595996 | 24683 | 164 | 52 | 50 | 11 | ND | ND | ND | ND | ND | ND | ND | ND | 2.810 | |
| 109 | 6 43 | 38.622 | 2244 | 33 | 20.56N | 82 | 21.29E | 33 | 46N | 82 | 12E | 595944 | 24683 | 164 | 55 | 50 | 20 | ND | ND | ND | ND | ND | ND | ND | ND | 2.800 | |
| 110 | 6 43 | 40.857 | 2235 | 33 | 11.77N | 82 | 24.10E | 33 | 37N | 82 | 14E | 595895 | 24683 | 164 | 57 | 50 | 29 | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 | |
| 111 | 6 43 | 43.093 | 2235 | 33 | 2.99N | 82 | 26.91E | 33 | 28E | 82 | 17E | 595848 | 24684 | 164 | 59 | 50 | 38 | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 | |
| 112 | 6 43 | 45.328 | 2236 | 32 | 54.20N | 82 | 29.70E | 33 | 19N | 82 | 20E | 595764 | 24684 | 165 | 1 | 50 | 47 | ND | ND | ND | ND | ND | ND | ND | ND | 2.810 | |
| 113 | 6 43 | 47.567 | 2239 | 32 | 45.39N | 82 | 32.49E | 33 | 9N | 82 | 23E | 595724 | 24684 | 165 | 3 | 50 | 55 | ND | ND | ND | ND | ND | ND | ND | ND | 2.810 | |
| 114 | 6 43 | 49.804 | 2236 | 32 | 36.60N | 82 | 35.26E | 33 | 2N | 82 | 26E | 595687 | 24684 | 165 | 5 | 51 | 4 | ND | ND | ND | ND | ND | ND | ND | ND | 2.813 | |
| 115 | 6 43 | 52.037 | 2234 | 32 | 27.81N | 82 | 38.02E | 32 | 53N | 82 | 29E | 595654 | 24684 | 165 | 7 | 51 | 13 | ND | ND | ND | ND | ND | ND | ND | ND | 2.816 | |
| 116 | 6 43 | 54.269 | 2231 | 32 | 19.03N | 82 | 40.77E | 32 | 44N | 82 | 31E | 595653 | 24684 | 165 | 9 | 51 | 22 | ND | ND | ND | ND | ND | ND | ND | ND | 2.816 | |
| 117 | 6 43 | 56.502 | 2234 | 32 | 10.24N | 82 | 43.51E | 32 | 35N | 82 | 34E | 595621 | 24684 | 165 | 11 | 51 | 30 | ND | ND | ND | ND | ND | ND | ND | ND | 2.813 | |
| 118 | 6 43 | 58.737 | 2235 | 32 | 1.44N | 82 | 46.23E | 32 | 26N | 82 | 37E | 595592 | 24684 | 165 | 13 | 51 | 39 | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 | |
| 119 | 6 44 | 0.973 | 2235 | 31 | 52.64N | 82 | 48.95E | 32 | 18N | 82 | 40E | 595564 | 24684 | 165 | 16 | 51 | 48 | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 | |
| 120 | 6 44 | 3.203 | 2231 | 31 | 43.86N | 82 | 51.66E | 32 | 9N | 82 | 42E | 595540 | 24684 | 165 | 18 | 51 | 57 | ND | ND | ND | ND | ND | ND | ND | ND | 2.816 | |
| 121 | 6 44 | 5.438 | 2235 | 31 | 35.06N | 82 | 54.35E | 32 | 0N | 82 | 45E | 595517 | 24685 | 165 | 20 | 52 | 5 | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 | |
| 122 | 6 44 | 7.673 | 2230 | 31 | 26.26N | 82 | 57.04E | 31 | 51N | 82 | 48E | 595497 | 24685 | 165 | 22 | 52 | 14 | ND | ND | ND | ND | ND | ND | ND | ND | 2.813 | |
| 123 | 6 44 | 9.902 | 2234 | 31 | 17.48N | 82 | 59.71E | 31 | 43N | 82 | 50E | 595480 | 24685 | 165 | 23 | 52 | 23 | ND | ND | ND | ND | ND | ND | ND | ND | 2.818 | |
| 124 | 6 44 | 12.138 | 2235 | 31 | 8.67N | 83 | 2.38E | 31 | 34N | 82 | 53E | 595465 | 24685 | 165 | 25 | 52 | 32 | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 | |
| 125 | 6 44 | 14.367 | 2230 | 30 | 59.88N | 83 | 5.03E | 31 | 25N | 82 | 56E | 595451 | 24685 | 165 | 27 | 52 | 40 | ND | ND | ND | ND | ND | ND | ND | ND | 2.810 | |
| 126 | 6 44 | 16.603 | 2235 | 30 | 51.07N | 83 | 7.68E | 31 | 16N | 82 | 59E | 595441 | 24685 | 165 | 29 | 52 | 49 | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 | |
| 127 | 6 44 | 18.832 | 2230 | 30 | 42.28N | 83 | 10.31E | 31 | 7N | 83 | 1E | 595433 | 24685 | 165 | 31 | 52 | 58 | ND | ND | ND | ND | ND | ND | ND | ND | 2.818 | |
| 128 | 6 44 | 21.063 | 2230 | 30 | 33.49N | 83 | 12.93E | 30 | 59N | 83 | 4E | 595428 | 24685 | 165 | 33 | 53 | 7 | ND | ND | ND | ND | ND | ND | ND | ND | 2.818 | |
| 129 | 6 44 | 23.298 | 2235 | 30 | 24.67N | 83 | 15.55E | 30 | 41N | 83 | 6E | 595424 | 24685 | 165 | 35 | 53 | 15 | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 | |
| 130 | 6 44 | 25.528 | 2231 | 30 | 15.88N | 83 | 18.16E | 30 | 50N | 83 | 9E | 595424 | 24685 | 165 | 37 | 53 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | 2.816 | |
| 131 | 6 44 | 27.759 | 2230 | 30 | 7.08N | 83 | 20.75E | 30 | 32N | 83 | 12E | 595426 | 24685 | 165 | 39 | 53 | 33 | ND | ND | ND | ND | ND | ND | ND | ND | 2.818 | |
| 132 | 6 44 | 29.987 | 2229 | 29 | 58.28N | 83 | 23.34E | 30 | 23N | 83 | 14E | 595430 | 24685 | 165 | 41 | 53 | 41 | ND | ND | ND | ND | ND | ND | ND | ND | 2.819 | |
| 133 | 6 44 | 32.223 | 2235 | 29 | 49.46N | 83 | 25.92E | 30 | 15N | 83 | 17E | 595437 | 24685 | 165 | 43 | 53 | 50 | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 | |
| 134 | 6 44 | 34.452 | 2230 | 29 | 40.66N | 83 | 28.48E | 30 | 6N | 83 | 20E | 595446 | 24685 | 165 | 44 | 53 | 59 | ND | ND | ND | ND | ND | ND | ND | ND | 2.818 | |
| 135 | 6 44 | 36.683 | 2230 | 29 | 31.86N | 83 | 31.04E | 29 | 57N | 83 | 22E | 595457 | 24685 | 165 | 46 | 54 | 8 | ND | ND | ND | ND | ND | ND | ND | ND | 2.818 | |

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| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | MIN | LONG | DEG | LAT | DEG | MIN | LONG | ALTITUDE | VELOC | F/S | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN |
|-----|----|----|--------|-------|-----|--------|-----|--------|------|-----|-----|-----|--------|-------|----------|-------|-----|-----|----|-----|----|-------|------|-----|-------|
| 136 | 6 | 44 | 38.912 | 2230 | 29 | 23.06N | 83 | 33.59E | 29 | 48N | 83 | 25E | 595472 | 24685 | 165 | 48 | 54 | 16 | ND | ND | ND | ND | ND | ND | 2.818 |
| 137 | 6 | 44 | 41.143 | 2230 | 29 | 14.25N | 83 | 36.13E | 29 | 39N | 83 | 27E | 595488 | 24685 | 165 | 50 | 54 | 25 | ND | ND | ND | ND | ND | ND | 2.818 |
| 138 | 6 | 44 | 43.372 | 2230 | 29 | 5.45N | 83 | 38.66E | 29 | 31N | 83 | 30E | 595507 | 24685 | 165 | 52 | 54 | 34 | ND | ND | ND | ND | ND | ND | 2.818 |
| 139 | 6 | 44 | 45.603 | 2230 | 28 | 56.64N | 83 | 41.18E | 29 | 22N | 83 | 32E | 595528 | 24685 | 165 | 53 | 54 | 42 | ND | ND | ND | ND | ND | ND | 2.818 |
| 140 | 6 | 44 | 47.832 | 2230 | 28 | 47.83N | 83 | 43.69E | 29 | 13N | 83 | 35E | 595552 | 24685 | 165 | 55 | 54 | 51 | ND | ND | ND | ND | ND | ND | 2.818 |
| 141 | 6 | 50 | 19.728 | 31895 | 6 | 48.12N | 88 | 53.68E | 7 | 15N | 88 | 46E | 627233 | 24612 | 168 | 23 | 74 | 35 | ND | ND | ND | ND | ND | ND | 0.819 |
| 142 | 6 | 50 | 22.923 | 3195 | 6 | 35.38N | 88 | 56.30E | 7 | 2N | 88 | 49E | 627811 | 24611 | 168 | 24 | 74 | 44 | ND | ND | ND | ND | ND | ND | 1.967 |
| 143 | 6 | 50 | 25.553 | 2630 | 6 | 24.90N | 88 | 58.45E | 6 | 52N | 88 | 51E | 628291 | 24610 | 168 | 24 | 74 | 51 | ND | ND | ND | ND | ND | ND | 2.389 |
| 144 | 6 | 50 | 28.022 | 2470 | 6 | 15.05N | 89 | 0.47E | 6 | 42N | 88 | 53E | 628744 | 24609 | 168 | 25 | 74 | 58 | ND | ND | ND | ND | ND | ND | 2.544 |
| 145 | 6 | 50 | 32.817 | 2410 | 5 | 5.45N | 89 | 2.43E | 6 | 32N | 88 | 55E | 629190 | 24608 | 168 | 25 | 75 | 4 | ND | ND | ND | ND | ND | ND | 2.607 |
| 146 | 6 | 50 | 35.188 | 2370 | 5 | 46.49N | 89 | 4.38E | 6 | 23N | 88 | 57E | 629634 | 24607 | 168 | 25 | 75 | 11 | ND | ND | ND | ND | ND | ND | 2.634 |
| 147 | 6 | 50 | 37.548 | 2360 | 5 | 37.08N | 89 | 6.31E | 6 | 13N | 88 | 59E | 630078 | 24606 | 168 | 26 | 75 | 17 | ND | ND | ND | ND | ND | ND | 2.662 |
| 148 | 6 | 50 | 39.907 | 2360 | 5 | 27.68N | 89 | 10.15E | 5 | 55N | 89 | 3E | 630070 | 24604 | 168 | 26 | 75 | 24 | ND | ND | ND | ND | ND | ND | 2.662 |
| 149 | 6 | 50 | 42.263 | 2355 | 5 | 18.29N | 89 | 12.07E | 5 | 45N | 89 | 5E | 631419 | 24603 | 168 | 27 | 75 | 30 | ND | ND | ND | ND | ND | ND | 2.668 |
| 150 | 6 | 50 | 44.617 | 2355 | 5 | 8.90N | 89 | 13.98E | 5 | 36N | 89 | 7E | 631872 | 24602 | 168 | 27 | 75 | 42 | ND | ND | ND | ND | ND | ND | 2.668 |
| 151 | 6 | 50 | 46.974 | 2356 | 4 | 59.51N | 89 | 15.90E | 5 | 26N | 89 | 9E | 632327 | 24601 | 168 | 27 | 75 | 54 | ND | ND | ND | ND | ND | ND | 2.667 |
| 152 | 6 | 50 | 49.332 | 2359 | 4 | 40.11N | 89 | 17.81E | 5 | 17N | 89 | 11E | 632785 | 24600 | 168 | 28 | 75 | 54 | ND | ND | ND | ND | ND | ND | 2.663 |
| 153 | 6 | 50 | 51.688 | 2355 | 4 | 31.72N | 89 | 19.72E | 5 | 8N | 89 | 12E | 633246 | 24598 | 168 | 28 | 76 | 0 | ND | ND | ND | ND | ND | ND | 2.668 |
| 154 | 6 | 50 | 54.048 | 2360 | 4 | 21.91N | 89 | 21.64E | 4 | 58N | 89 | 14E | 633710 | 24597 | 168 | 28 | 76 | 6 | ND | ND | ND | ND | ND | ND | 2.662 |
| 155 | 6 | 50 | 56.407 | 2360 | 4 | 12.50N | 89 | 23.55E | 4 | 49N | 89 | 16E | 634177 | 24596 | 168 | 28 | 76 | 11 | ND | ND | ND | ND | ND | ND | 2.662 |
| 156 | 6 | 50 | 58.768 | 2360 | 4 | 3.07N | 89 | 25.46E | 4 | 40N | 89 | 18E | 634647 | 24595 | 168 | 29 | 76 | 17 | ND | ND | ND | ND | ND | ND | 2.662 |
| 157 | 6 | 51 | 1.133 | 2365 | 4 | 53.67N | 89 | 27.37E | 4 | 30N | 89 | 20E | 635120 | 24594 | 168 | 29 | 76 | 23 | ND | ND | ND | ND | ND | ND | 2.657 |
| 158 | 6 | 51 | 3.492 | 2360 | 3 | 44.25N | 89 | 29.28E | 4 | 21N | 89 | 22E | 635595 | 24593 | 168 | 29 | 76 | 28 | ND | ND | ND | ND | ND | ND | 2.662 |
| 159 | 6 | 51 | 5.857 | 2365 | 3 | 34.84N | 89 | 31.19E | 4 | 11N | 89 | 24E | 636074 | 24592 | 168 | 29 | 76 | 34 | ND | ND | ND | ND | ND | ND | 2.657 |
| 160 | 6 | 51 | 8.219 | 2361 | 3 | 25.39N | 89 | 33.10E | 4 | 2N | 89 | 26E | 636555 | 24591 | 168 | 29 | 76 | 39 | ND | ND | ND | ND | ND | ND | 2.661 |
| 161 | 6 | 51 | 10.588 | 2369 | 3 | 15.95N | 89 | 35.01E | 3 | 53N | 89 | 28E | 637040 | 24590 | 168 | 30 | 76 | 44 | ND | ND | ND | ND | ND | ND | 2.652 |
| 162 | 6 | 51 | 12.957 | 2370 | 3 | | 89 | 36.92E | 3 | 43N | 89 | 30E | 637527 | 24589 | 168 | 30 | 76 | 50 | ND | ND | ND | ND | ND | ND | 2.651 |

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TOP SECRET

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MISSION 1017-2

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| FRM | Z TIME | | DTIM | CAMERA NADIR | | | FORMAT CENTER | | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | |
|-----|--------|----|--------|--------------|--------|--------|---------------|--------|-----|----------|-------|---------|--------|-------|------|-----|------|-------|-------|
| | HR | MI | | SEC | DEG | MIN | LONG | DEG | MIN | | | | | | | | | LONG | FEET |
| 1 | 9 | 17 | 20.946 | 38 | 16.71N | 114 | 18.64W | 37 | 37N | 114 | 36W | 942632 | 23895 | 16 | 22 | -52 | 45 | 1.334 | |
| 2 | 9 | 17 | 25.656 | 4710 | 38 | 34.50N | 114 | 11.97W | 37 | 55N | 114 | 29W | 941296 | 23898 | 16 | 28 | -52 | 27 | 1.334 |
| 3 | 9 | 17 | 29.791 | 4135 | 38 | 50.11N | 114 | 6.07W | 38 | 11N | 114 | 24W | 940124 | 23901 | 16 | 33 | -52 | 12 | 1.520 |
| 4 | 9 | 17 | 33.802 | 4010 | 39 | 5.24N | 114 | 0.29W | 38 | 26N | 114 | 18W | 938985 | 23903 | 16 | 38 | -51 | 56 | 1.567 |
| 5 | 9 | 17 | 37.757 | 3955 | 39 | 20.16N | 113 | 54.55W | 38 | 41N | 114 | 12W | 937862 | 23906 | 16 | 43 | -51 | 41 | 1.589 |
| 6 | 9 | 17 | 41.691 | 3935 | 39 | 35.00N | 113 | 48.79W | 38 | 56N | 114 | 7W | 936745 | 23908 | 16 | 48 | -51 | 26 | 1.597 |
| 7 | 9 | 17 | 45.616 | 3925 | 39 | 49.79N | 113 | 42.99W | 39 | 11N | 114 | 1W | 935628 | 23911 | 16 | 53 | -51 | 11 | 1.601 |
| 8 | 9 | 17 | 49.526 | 3910 | 40 | 4.52N | 113 | 37.17W | 39 | 26N | 113 | 55W | 934517 | 23913 | 16 | 58 | -50 | 56 | 1.607 |
| 9 | 9 | 17 | 53.422 | 3895 | 40 | 19.19N | 113 | 31.32W | 39 | 40N | 113 | 49W | 933408 | 23915 | 17 | 3 | -50 | 41 | 1.613 |
| 10 | 9 | 17 | 57.312 | 3890 | 40 | 33.84N | 113 | 25.42W | 39 | 55N | 113 | 44W | 932302 | 23918 | 17 | 8 | -50 | 26 | 1.615 |
| 11 | 9 | 18 | 1.187 | 3875 | 40 | 48.42N | 113 | 19.50W | 40 | 10N | 113 | 38W | 931197 | 23920 | 17 | 13 | -50 | 12 | 1.621 |
| 12 | 9 | 18 | 5.062 | 3875 | 41 | 3.00N | 113 | 13.53W | 40 | 24N | 113 | 32W | 930095 | 23923 | 17 | 18 | -49 | 57 | 1.621 |

TOP SECRET

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SPECIAL HANDLING REQUIRED
MISSION 1017-2

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| FRM | 2 TIME | DTIM | CAMERA | NADR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|-------------|------|-----------|-----------|---------|---------|----------|-------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILS | LAT | DEG MIN | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 1 | 9 38 38.920 | 0 | 51 23.10N | 28 53.06E | 51 48N | 28 35E | 618602 | 24628 | 157 46 | 31 40 | ND | ND | ND | 2.159 |
| 2 | 9 38 41.830 | 2910 | 51 12.19N | 29 0.16E | 51 37N | 28 42E | 618199 | 24629 | 157 52 | 31 51 | ND | ND | ND | 2.159 |
| 3 | 9 38 44.346 | 2515 | 51 2.75N | 29 6.24E | 51 28N | 28 49E | 617854 | 24630 | 157 58 | 32 1 | ND | ND | ND | 2.498 |
| 4 | 9 38 46.730 | 2385 | 50 53.80N | 29 11.97E | 51 19N | 28 54E | 617528 | 24631 | 158 3 | 32 11 | ND | ND | ND | 2.634 |
| 5 | 9 38 49.061 | 2330 | 50 45.05N | 29 17.53E | 51 10N | 29 0E | 617213 | 24632 | 158 9 | 32 20 | ND | ND | ND | 2.697 |
| 6 | 9 38 51.370 | 2330 | 50 36.36N | 29 23.00E | 51 1N | 29 6E | 616902 | 24632 | 158 14 | 32 30 | ND | ND | ND | 2.720 |
| 7 | 9 38 53.656 | 2286 | 50 27.76N | 29 28.37E | 50 53N | 29 11E | 616595 | 24633 | 158 19 | 32 39 | ND | ND | ND | 2.749 |
| 8 | 9 38 55.936 | 2279 | 50 19.18N | 29 33.70E | 50 44N | 29 17E | 616292 | 24634 | 158 24 | 32 48 | ND | ND | ND | 2.757 |
| 9 | 9 38 58.210 | 2275 | 50 10.62N | 29 38.98E | 50 36N | 29 22E | 615992 | 24635 | 158 29 | 32 57 | ND | ND | ND | 2.762 |
| 10 | 9 39 0.480 | 2270 | 50 2.06N | 29 44.22E | 50 27N | 29 27E | 615693 | 24635 | 158 33 | 33 6 | ND | ND | ND | 2.768 |
| 11 | 9 39 2.745 | 2265 | 49 53.52N | 29 49.41E | 50 18N | 29 33E | 615396 | 24636 | 158 38 | 33 15 | ND | ND | ND | 2.774 |
| 12 | 9 39 5.006 | 2260 | 49 44.99N | 29 54.55E | 50 10N | 29 38E | 615105 | 24637 | 158 43 | 33 24 | ND | ND | ND | 2.780 |
| 13 | 9 39 7.271 | 2265 | 49 36.44N | 29 59.67E | 50 1N | 29 43E | 614813 | 24637 | 158 48 | 33 33 | ND | ND | ND | 2.774 |
| 14 | 9 39 9.535 | 2265 | 49 27.88N | 30 4.76E | 49 53N | 29 48E | 614523 | 24638 | 158 53 | 33 42 | ND | ND | ND | 2.774 |
| 15 | 9 39 11.795 | 2260 | 49 19.34N | 30 9.81E | 49 44N | 29 53E | 614236 | 24639 | 158 57 | 33 51 | ND | ND | ND | 2.780 |
| 16 | 9 39 14.056 | 2260 | 49 10.79N | 30 14.83E | 49 36N | 29 59E | 613951 | 24639 | 159 2 | 34 1 | ND | ND | ND | 2.780 |
| 17 | 9 39 16.311 | 2255 | 49 2.25N | 30 19.80E | 49 27N | 30 4E | 613668 | 24640 | 159 7 | 34 10 | ND | ND | ND | 2.786 |
| 18 | 9 39 18.565 | 2255 | 48 53.72N | 30 24.74E | 49 19N | 30 9E | 613386 | 24641 | 159 11 | 34 19 | ND | ND | ND | 2.786 |
| 19 | 9 39 20.820 | 2255 | 48 45.17N | 30 29.64E | 49 10N | 30 14E | 613108 | 24641 | 159 16 | 34 28 | ND | ND | ND | 2.786 |
| 20 | 9 39 23.071 | 2254 | 48 36.64N | 30 34.51E | 49 2N | 30 19E | 612832 | 24642 | 159 20 | 34 37 | ND | ND | ND | 2.791 |
| 21 | 9 39 25.325 | 2254 | 48 28.09N | 30 39.36E | 48 53N | 30 24E | 612557 | 24643 | 159 25 | 34 46 | ND | ND | ND | 2.788 |
| 22 | 9 39 27.576 | 2251 | 48 19.55N | 30 44.17E | 48 44N | 30 29E | 612284 | 24643 | 159 29 | 34 55 | ND | ND | ND | 2.791 |
| 23 | 9 39 29.830 | 2254 | 48 10.99N | 30 48.95E | 48 36N | 30 33E | 612013 | 24644 | 159 34 | 35 4 | ND | ND | ND | 2.788 |
| 24 | 9 39 32.075 | 2245 | 48 2.46N | 30 53.69E | 48 27N | 30 38E | 611745 | 24645 | 159 38 | 35 13 | ND | ND | ND | 2.799 |
| 25 | 9 39 34.320 | 2245 | 47 53.93N | 30 58.40E | 48 19N | 30 43E | 611479 | 24645 | 159 42 | 35 22 | ND | ND | ND | 2.793 |
| 26 | 9 39 36.570 | 2250 | 47 45.37N | 31 3.09E | 48 10N | 30 48E | 611215 | 24646 | 159 47 | 35 31 | ND | ND | ND | 2.793 |
| 27 | 9 39 38.815 | 2245 | 47 36.83N | 31 7.74E | 48 2N | 30 53E | 610953 | 24647 | 159 51 | 35 40 | ND | ND | ND | 2.799 |
| 28 | 9 39 41.061 | 2245 | 47 28.28N | 31 12.37E | 47 53N | 30 57E | 610692 | 24647 | 159 55 | 35 49 | ND | ND | ND | 2.799 |
| 29 | 9 39 43.306 | 2245 | 47 19.73N | 31 16.96E | 47 45N | 31 2E | 610434 | 24648 | 159 59 | 35 58 | ND | ND | ND | 2.799 |
| 30 | 9 39 45.556 | 2250 | 47 11.16N | 31 21.54E | 47 36N | 31 7E | 610178 | 24648 | 160 3 | 36 7 | ND | ND | ND | 2.793 |
| 31 | 9 39 47.797 | 2241 | 47 2.61N | 31 26.07E | 47 28N | 31 11E | 609924 | 24649 | 160 8 | 36 16 | ND | ND | ND | 2.804 |
| 32 | 9 39 50.040 | 2244 | 46 54.06N | 31 30.58E | 47 19N | 31 16E | 609671 | 24650 | 160 12 | 36 25 | ND | ND | ND | 2.800 |
| 33 | 9 39 52.275 | 2235 | 46 45.53N | 31 35.05E | 47 10N | 31 20E | 609422 | 24650 | 160 16 | 36 34 | ND | ND | ND | 2.811 |
| 34 | 9 39 54.521 | 2245 | 46 36.95N | 31 39.51E | 47 2N | 31 25E | 609174 | 24651 | 160 20 | 36 43 | ND | ND | ND | 2.799 |
| 35 | 9 39 56.762 | 2244 | 46 28.39N | 31 43.94E | 46 53N | 31 29E | 608928 | 24651 | 160 24 | 36 52 | ND | ND | ND | 2.804 |
| 36 | 9 39 59.006 | 2244 | 46 19.82N | 31 48.35E | 46 45N | 31 34E | 608683 | 24652 | 160 28 | 37 1 | ND | ND | ND | 2.800 |
| 37 | 9 40 1.245 | 2240 | 46 11.26N | 31 52.72E | 46 36N | 31 38E | 608442 | 24653 | 160 32 | 37 10 | ND | ND | ND | 2.805 |
| 38 | 9 40 3.485 | 2240 | 46 2.69N | 31 57.07E | 46 28N | 31 43E | 608203 | 24653 | 160 36 | 37 19 | ND | ND | ND | 2.805 |
| 39 | 9 40 5.726 | 2240 | 45 54.12N | 32 1.39E | 46 19N | 31 47E | 607965 | 24654 | 160 40 | 37 28 | ND | ND | ND | 2.805 |
| 40 | 9 40 7.960 | 2235 | 45 45.56N | 32 5.67E | 46 11N | 31 52E | 607729 | 24654 | 160 44 | 37 37 | ND | ND | ND | 2.805 |
| 41 | 9 40 10.195 | 2235 | 45 37.00N | 32 9.94E | 46 2N | 31 56E | 607496 | 24655 | 160 47 | 37 46 | ND | ND | ND | 2.811 |
| 42 | 9 40 12.436 | 2240 | 45 28.42N | 32 14.19E | 45 53N | 32 0E | 607264 | 24655 | 160 51 | 37 55 | ND | ND | ND | 2.805 |
| 43 | 9 40 14.672 | 2236 | 45 19.84N | 32 18.41E | 45 45N | 32 5E | 607035 | 24656 | 160 55 | 38 3 | ND | ND | ND | 2.810 |
| 44 | 9 40 16.910 | 2239 | 45 11.26N | 32 22.60E | 45 36N | 32 9E | 606807 | 24656 | 160 59 | 38 12 | ND | ND | ND | 2.806 |
| 45 | 9 40 19.150 | 2240 | 45 2.66N | 32 26.78E | 45 28N | 32 13E | 606582 | 24657 | 161 3 | 38 21 | ND | ND | ND | 2.805 |

TOP SECRET

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| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUNV | PITCH | ROLL | YAW | SCAN |
|-----------|-------------|---------|-----------|-----------|---------|---------|----------|-------|---------|--------|---------|---------|---------|-------|
| HR MI SEC | MILS | DEG MIN | DEG MIN | DEG MIN | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 46 | 9 40 21.386 | 2235 | 44 54.08N | 32 30.92E | 45 19N | 32 17E | 606359 | 24658 | 161 6 | 38 30 | ND | ND | ND | 2.811 |
| 47 | 9 40 23.625 | 2240 | 44 45.49N | 32 35.05E | 45 10N | 32 21E | 606137 | 24658 | 161 10 | 38 39 | ND | ND | ND | 2.805 |
| 48 | 9 40 25.860 | 2235 | 44 36.90N | 32 39.15E | 45 2N | 32 26E | 605918 | 24659 | 161 14 | 38 48 | ND | ND | ND | 2.811 |
| 49 | 9 40 28.101 | 2240 | 44 28.29N | 32 43.24E | 44 53N | 32 30E | 605701 | 24659 | 161 17 | 38 57 | ND | ND | ND | 2.805 |
| 50 | 9 40 30.335 | 2235 | 44 19.70N | 32 47.29E | 44 45N | 32 34E | 605486 | 24660 | 161 21 | 39 6 | ND | ND | ND | 2.811 |
| 51 | 9 40 32.575 | 2240 | 44 11.08N | 32 51.33E | 44 36N | 32 38E | 605273 | 24660 | 161 24 | 39 15 | ND | ND | ND | 2.805 |
| 52 | 9 40 34.811 | 2235 | 44 2.48N | 32 55.34E | 44 27N | 32 42E | 605062 | 24661 | 161 28 | 39 24 | ND | ND | ND | 2.811 |
| 53 | 9 40 37.045 | 2235 | 43 53.88N | 32 59.32E | 44 19N | 32 46E | 604854 | 24661 | 161 32 | 39 33 | ND | ND | ND | 2.811 |
| 54 | 9 40 39.285 | 2240 | 43 45.26N | 33 3.30E | 44 10N | 32 50E | 604647 | 24662 | 161 35 | 39 42 | ND | ND | ND | 2.805 |
| 55 | 9 40 41.521 | 2235 | 43 36.64N | 33 7.24E | 44 2N | 32 54E | 604442 | 24662 | 161 39 | 39 51 | ND | ND | ND | 2.811 |
| 56 | 9 40 43.756 | 2235 | 43 28.03N | 33 11.16E | 43 53N | 32 58E | 604240 | 24663 | 161 42 | 40 0 | ND | ND | ND | 2.811 |
| 57 | 9 40 45.990 | 2235 | 43 19.42N | 33 15.06E | 43 44N | 33 2E | 604039 | 24663 | 161 46 | 40 9 | ND | ND | ND | 2.811 |
| 58 | 9 40 48.226 | 2235 | 43 10.80N | 33 18.94E | 43 36N | 33 6E | 603840 | 24664 | 161 49 | 40 18 | ND | ND | ND | 2.811 |
| 59 | 9 40 50.456 | 2231 | 43 2.19N | 33 22.79E | 43 27N | 33 10E | 603645 | 24664 | 161 52 | 40 27 | ND | ND | ND | 2.816 |
| 60 | 9 44 3.966 | 93509 | 30 26.20N | 37 55.89E | 30 51N | 37 47E | 595086 | 24685 | 165 35 | 53 14 | ND | ND | ND | 0.832 |
| 61 | 9 44 7.011 | 3045 | 30 14.19N | 37 59.44E | 30 39N | 37 50E | 595091 | 24685 | 165 37 | 53 26 | ND | ND | ND | 2.863 |
| 62 | 9 44 9.510 | 2490 | 30 4.37N | 38 2.33E | 30 29N | 37 53E | 595099 | 24685 | 165 39 | 53 36 | ND | ND | ND | 2.523 |
| 63 | 9 44 11.841 | 2340 | 29 55.14N | 38 5.04E | 30 20N | 37 56E | 595108 | 24685 | 165 41 | 53 45 | ND | ND | ND | 2.685 |
| 64 | 9 44 14.125 | 2285 | 29 46.12N | 38 7.68E | 30 11N | 37 59E | 595121 | 24685 | 165 43 | 53 54 | ND | ND | ND | 2.750 |
| 65 | 9 44 16.391 | 2265 | 29 37.18N | 38 10.28E | 30 2N | 38 1E | 595135 | 24685 | 165 45 | 54 3 | ND | ND | ND | 2.774 |
| 66 | 9 44 18.650 | 2260 | 29 28.26N | 38 12.87E | 29 53N | 38 4E | 595153 | 24685 | 165 47 | 54 12 | ND | ND | ND | 2.788 |
| 67 | 9 44 20.900 | 2250 | 29 19.37N | 38 15.44E | 29 44N | 38 7E | 595172 | 24685 | 165 49 | 54 21 | ND | ND | ND | 2.793 |
| 68 | 9 44 23.141 | 2240 | 29 10.53N | 38 17.98E | 29 36N | 38 9E | 595194 | 24685 | 165 51 | 54 29 | ND | ND | ND | 2.805 |
| 69 | 9 44 25.387 | 2246 | 29 1.66N | 38 20.53E | 29 27N | 38 12E | 595218 | 24685 | 165 52 | 54 38 | ND | ND | ND | 2.798 |
| 70 | 9 44 27.631 | 2244 | 28 52.79N | 38 23.06E | 29 18N | 38 14E | 595245 | 24685 | 165 54 | 54 47 | ND | ND | ND | 2.800 |
| 71 | 9 44 29.875 | 2245 | 28 43.93N | 38 25.59E | 29 9N | 38 17E | 595275 | 24685 | 165 56 | 54 56 | ND | ND | ND | 2.799 |
| 72 | 9 44 32.115 | 2240 | 28 35.07N | 38 28.10E | 29 0N | 38 19E | 595307 | 24685 | 165 58 | 55 4 | ND | ND | ND | 2.805 |
| 73 | 9 44 34.355 | 2240 | 28 26.22N | 38 30.60E | 28 51N | 38 22E | 595341 | 24685 | 165 59 | 55 13 | ND | ND | ND | 2.805 |
| 74 | 9 44 36.596 | 2240 | 28 17.37N | 38 33.10E | 28 42N | 38 24E | 595378 | 24685 | 166 1 | 55 22 | ND | ND | ND | 2.805 |
| 75 | 9 44 38.830 | 2235 | 28 8.53N | 38 35.58E | 28 34N | 38 27E | 595417 | 24685 | 166 3 | 55 31 | ND | ND | ND | 2.811 |
| 76 | 9 44 41.070 | 2240 | 27 59.68N | 38 38.06E | 28 25N | 38 29E | 595459 | 24685 | 166 5 | 55 39 | ND | ND | ND | 2.805 |
| 77 | 9 44 43.304 | 2233 | 27 50.85N | 38 40.52E | 28 16N | 38 32E | 595503 | 24685 | 166 6 | 55 48 | ND | ND | ND | 2.814 |
| 78 | 9 44 45.535 | 2232 | 27 42.02N | 38 42.97E | 28 7N | 38 34E | 595549 | 24684 | 166 8 | 55 57 | ND | ND | ND | 2.815 |
| 79 | 9 44 47.775 | 2240 | 27 33.16N | 38 45.43E | 27 58N | 38 37E | 595598 | 24684 | 166 10 | 56 6 | ND | ND | ND | 2.805 |
| 80 | 9 44 50.016 | 2240 | 27 24.30N | 38 47.87E | 27 49N | 38 39E | 595650 | 24684 | 166 11 | 56 14 | ND | ND | ND | 2.805 |
| 81 | 9 44 52.247 | 2232 | 27 15.47N | 38 50.30E | 27 41N | 38 42E | 595704 | 24684 | 166 13 | 56 23 | ND | ND | ND | 2.815 |
| 82 | 9 44 54.479 | 2232 | 27 6.64N | 38 52.72E | 27 32N | 38 44E | 595760 | 24684 | 166 14 | 56 32 | ND | ND | ND | 2.815 |
| 83 | 9 44 56.720 | 2240 | 26 57.77N | 38 55.14E | 27 23N | 38 47E | 595820 | 24684 | 166 16 | 56 40 | ND | ND | ND | 2.805 |
| 84 | 9 44 58.951 | 2232 | 26 48.94N | 38 57.55E | 27 14N | 38 49E | 595881 | 24684 | 166 18 | 56 49 | ND | ND | ND | 2.815 |
| 85 | 9 45 1.184 | 2232 | 26 40.10N | 38 59.94E | 27 5N | 38 51E | 595945 | 24684 | 166 19 | 56 58 | ND | ND | ND | 2.815 |
| 86 | 9 45 3.424 | 2240 | 26 31.24N | 39 2.34E | 26 56N | 38 54E | 596012 | 24683 | 166 21 | 57 6 | ND | ND | ND | 2.805 |
| 87 | 9 45 5.655 | 2232 | 26 22.40N | 39 4.73E | 26 48N | 38 56E | 596081 | 24683 | 166 22 | 57 15 | ND | ND | ND | 2.815 |
| 88 | 9 45 7.888 | 2232 | 26 13.56N | 39 7.10E | 26 39N | 38 59E | 596152 | 24683 | 166 24 | 57 24 | ND | ND | ND | 2.815 |
| 89 | 9 45 10.119 | 2232 | 26 4.72N | 39 9.47E | 26 30N | 39 1E | 596226 | 24683 | 166 25 | 57 32 | ND | ND | ND | 2.815 |
| 90 | 9 45 12.352 | 2232 | 25 55.88N | 39 11.83E | 26 21N | 39 3E | 596302 | 24683 | 166 27 | 57 41 | ND | ND | ND | 2.815 |

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|------|-------|--------|------|-----------|-----------|---------|--------|---------|-------|---------|-------|---------------|-----------|--------|--------------|--------|-------|---------|------|---------|-----|---------|-----------|
| 91 | 9 45 | 14.583 | 2232 | 25 47.04N | 39 14.18E | 26 12N | 39 6E | 596381 | 24683 | 166 28 | 57 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 92 | 9 45 | 16.815 | 2232 | 25 36.20N | 39 16.53E | 26 3N | 39 8E | 596463 | 24683 | 166 30 | 57 58 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 93 | 9 45 | 19.056 | 2240 | 25 29.32N | 39 18.87E | 25 55N | 39 11E | 596547 | 24682 | 166 31 | 58 7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.805 |
| 94 | 9 45 | 21.287 | 2232 | 25 20.48N | 39 21.20E | 25 46N | 39 13E | 596633 | 24682 | 166 33 | 58 15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 95 | 9 45 | 23.520 | 2232 | 25 11.63N | 39 23.53E | 25 37N | 39 15E | 596722 | 24682 | 166 34 | 58 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 96 | 9 45 | 25.751 | 2232 | 25 2.79N | 39 25.85E | 25 28N | 39 18E | 596814 | 24682 | 166 36 | 58 33 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 97 | 9 45 | 27.983 | 2232 | 24 53.94N | 39 28.16E | 25 19N | 39 20E | 596908 | 24682 | 166 37 | 58 41 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 98 | 9 45 | 30.216 | 2232 | 24 45.09N | 39 30.46E | 25 10N | 39 22E | 597004 | 24681 | 166 39 | 58 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 99 | 9 45 | 32.447 | 2232 | 24 36.24N | 39 32.76E | 25 1N | 39 25E | 597103 | 24681 | 166 40 | 58 58 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 90 | 9 45 | 34.680 | 2232 | 24 27.39N | 39 35.05E | 24 53N | 39 27E | 597204 | 24681 | 166 42 | 59 7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.805 |
| 91 | 9 45 | 36.919 | 2240 | 24 18.51N | 39 37.34E | 24 44N | 39 29E | 597309 | 24681 | 166 43 | 59 16 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.805 |
| 92 | 9 45 | 39.151 | 2232 | 24 -9.65N | 39 39.62E | 24 35N | 39 31E | 597416 | 24680 | 166 44 | 59 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 93 | 9 45 | 41.384 | 2232 | 24 0.80N | 39 41.89E | 24 26N | 39 34E | 597524 | 24680 | 166 46 | 59 33 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 94 | 9 45 | 43.615 | 2232 | 23 51.95N | 39 44.15E | 24 17N | 39 36E | 597636 | 24680 | 166 47 | 59 41 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 95 | 9 45 | 45.855 | 2240 | 23 43.06N | 39 46.42E | 24 8N | 39 38E | 597751 | 24679 | 166 49 | 59 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.805 |
| 96 | 9 45 | 48.087 | 2232 | 23 34.21N | 39 48.67E | 24 0N | 39 41E | 597867 | 24679 | 166 50 | 59 59 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 97 | 9 45 | 50.319 | 2232 | 23 25.35N | 39 50.91E | 23 51N | 39 43E | 597986 | 24679 | 166 51 | 60 7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 98 | 9 45 | 52.552 | 2232 | 23 16.49N | 39 53.15E | 23 42N | 39 45E | 598107 | 24679 | 166 53 | 60 16 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 99 | 9 45 | 54.783 | 2232 | 23 7.63N | 39 55.38E | 23 33N | 39 47E | 598232 | 24679 | 166 54 | 60 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 0100 | 9 45 | 57.023 | 2240 | 22 58.74N | 39 57.62E | 23 24N | 39 50E | 598359 | 24678 | 166 55 | 60 33 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.805 |
| 0101 | 9 45 | 59.256 | 2232 | 22 49.88N | 39 59.84E | 23 15N | 39 52E | 598488 | 24678 | 166 57 | 60 41 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 0102 | 9 46 | 1.487 | 2232 | 22 41.02N | 40 2.05E | 23 6N | 39 54E | 598620 | 24678 | 166 58 | 60 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 0103 | 9 46 | 3.720 | 2232 | 22 32.15N | 40 4.26E | 22 58N | 39 56E | 598754 | 24677 | 166 59 | 60 58 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 0104 | 9 46 | 5.959 | 2240 | 22 23.26N | 40 6.47E | 22 49N | 39 59E | 598892 | 24677 | 167 0 | 61 7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.805 |
| 0105 | 9 46 | 8.191 | 2232 | 22 14.40N | 40 8.67E | 22 40N | 40 1E | 599031 | 24677 | 167 2 | 61 15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.815 |
| 0106 | 9 46 | 10.426 | 2234 | 22 5.52N | 40 10.86E | 22 31N | 40 3E | 599173 | 24676 | 167 3 | 61 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.813 |
| 0107 | 9 46 | 12.660 | 2235 | 21 56.65N | 40 13.05E | 22 22N | 40 5E | 599318 | 24676 | 167 4 | 61 32 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 |
| 0108 | 9 46 | 14.896 | 2235 | 21 47.77N | 40 15.23E | 22 13N | 40 7E | 599465 | 24676 | 167 5 | 61 41 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 |
| 0109 | 9 46 | 17.131 | 2235 | 21 38.89N | 40 17.41E | 22 4N | 40 10E | 599615 | 24675 | 167 7 | 61 49 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 |
| 0110 | 9 46 | 19.370 | 2240 | 21 29.99N | 40 19.58E | 21 55N | 40 12E | 599767 | 24675 | 167 8 | 61 58 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.805 |
| 0111 | 9 46 | 21.601 | 2230 | 21 21.13N | 40 21.74E | 21 47N | 40 14E | 599922 | 24675 | 167 9 | 62 6 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.818 |
| 0112 | 9 46 | 23.835 | 2235 | 21 12.25N | 40 23.90E | 21 38N | 40 16E | 600079 | 24674 | 167 10 | 62 15 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 |
| 0113 | 9 46 | 26.065 | 2230 | 21 3.39N | 40 26.05E | 21 29N | 40 18E | 600239 | 24674 | 167 11 | 62 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.818 |
| 0114 | 9 46 | 28.306 | 2240 | 20 54.48N | 40 28.20E | 21 20N | 40 20E | 600402 | 24674 | 167 13 | 62 32 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.805 |
| 0115 | 9 46 | 30.535 | 2230 | 20 45.62N | 40 30.34E | 21 11N | 40 23E | 600567 | 24673 | 167 14 | 62 40 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.818 |
| 0116 | 9 46 | 32.771 | 2235 | 20 36.74N | 40 32.48E | 21 2N | 40 25E | 600734 | 24673 | 167 15 | 62 48 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 |
| 0117 | 9 46 | 35.006 | 2235 | 20 27.85N | 40 34.61E | 20 53N | 40 27E | 600905 | 24673 | 167 16 | 62 57 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 |
| 0118 | 9 46 | 37.240 | 2235 | 20 18.97N | 40 36.74E | 20 44N | 40 29E | 601077 | 24672 | 167 17 | 63 5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 |
| 0119 | 9 46 | 39.476 | 2235 | 20 10.08N | 40 38.86E | 20 36N | 40 31E | 601252 | 24672 | 167 18 | 63 14 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 |
| 0120 | 9 46 | 41.710 | 2235 | 20 1.20N | 40 40.98E | 20 27N | 40 33E | 601430 | 24671 | 167 19 | 63 22 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 |
| 0121 | 9 46 | 43.945 | 2235 | 19 52.31N | 40 43.09E | 20 18N | 40 35E | 601611 | 24671 | 167 21 | 63 30 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 2.811 |

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| FRM | Z TIME | | | DTIM | CAMERA | | | FORMAT CENTER | | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | |
|-----|--------|----|--------|------|--------|-----|--------|---------------|-----|------|----------|--------|---------|------|-------|------|-----|------|-----|-------|
| | HR | MI | SEC | | DEG | MIN | LONG | DEG | MIN | LONG | | | | | | | | | MIN | F/S |
| 1 | 20 | 10 | 50.103 | 38 | 29.36N | 123 | 21.91W | 38 | 54N | 123 | 33W | 598501 | 24675 | 163 | 28 | 45 | 2 | ND | ND | 2.040 |
| 2 | 20 | 10 | 53.183 | 38 | 17.36N | 123 | 17.40W | 38 | 42N | 123 | 28W | 598351 | 24676 | 163 | 32 | 45 | 14 | ND | ND | 2.040 |
| 3 | 20 | 10 | 55.702 | 38 | 7.53N | 123 | 13.72W | 38 | 32N | 123 | 25W | 598231 | 24676 | 163 | 35 | 45 | 24 | ND | ND | 2.493 |
| 4 | 20 | 10 | 58.067 | 37 | 58.31N | 123 | 10.29W | 38 | 23N | 123 | 21W | 598121 | 24676 | 163 | 38 | 45 | 34 | ND | ND | 2.657 |
| 5 | 20 | 11 | 0.377 | 37 | 49.30N | 123 | 6.96W | 38 | 14N | 123 | 18W | 598016 | 24676 | 163 | 41 | 45 | 43 | ND | ND | 2.720 |
| 6 | 20 | 11 | 2.657 | 37 | 40.40N | 123 | 3.68W | 38 | 5N | 123 | 14W | 597915 | 24677 | 163 | 44 | 45 | 52 | ND | ND | 2.756 |
| 7 | 20 | 11 | 4.934 | 37 | 31.51N | 123 | 0.42W | 37 | 56N | 123 | 11W | 597817 | 24677 | 163 | 46 | 46 | 1 | ND | ND | 2.761 |
| 8 | 20 | 11 | 7.202 | 37 | 22.65N | 122 | 57.20W | 37 | 48N | 123 | 8W | 597720 | 24677 | 163 | 49 | 46 | 10 | ND | ND | 2.769 |
| 9 | 20 | 11 | 9.467 | 37 | 13.81N | 122 | 53.99W | 37 | 39N | 123 | 5W | 597627 | 24677 | 163 | 51 | 46 | 19 | ND | ND | 2.774 |
| 10 | 20 | 11 | 11.728 | 37 | 4.98N | 122 | 50.80W | 37 | 30N | 123 | 1W | 597536 | 24678 | 163 | 54 | 46 | 28 | ND | ND | 2.780 |
| 11 | 20 | 11 | 13.983 | 36 | 56.16N | 122 | 47.63W | 37 | 21N | 122 | 58W | 597447 | 24678 | 163 | 57 | 46 | 37 | ND | ND | 2.785 |
| 12 | 20 | 11 | 16.247 | 36 | 47.31N | 122 | 44.46W | 37 | 12N | 122 | 55W | 597361 | 24678 | 163 | 59 | 46 | 47 | ND | ND | 2.775 |
| 13 | 20 | 11 | 18.507 | 36 | 38.48N | 122 | 41.32W | 37 | 3N | 122 | 52W | 597277 | 24678 | 164 | 2 | 46 | 56 | ND | ND | 2.780 |
| 14 | 20 | 11 | 24.757 | 36 | 29.68N | 122 | 38.20W | 36 | 55N | 122 | 49W | 597196 | 24679 | 164 | 4 | 47 | 5 | ND | ND | 2.793 |
| 15 | 20 | 11 | 23.018 | 36 | 20.84N | 122 | 35.08W | 36 | 46N | 122 | 45W | 597116 | 24679 | 164 | 7 | 47 | 14 | ND | ND | 2.788 |
| 16 | 20 | 11 | 25.268 | 36 | 12.04N | 122 | 32.00W | 36 | 37N | 122 | 42W | 597040 | 24679 | 164 | 9 | 47 | 23 | ND | ND | 2.793 |

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

MISSION 1817-2

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PASS 138D AFT 6MARS65

| FRM | 2 TIME | DTIM | CAMERA | NADR | LONG | MIN | DEG | LAT | DEG | MIN | DEG | LONG | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-----|--------|------|--------|------|------|--------|-----|--------|-----|-----|-----|------|----------|-------|---------|------|-------|------|-------|------|
| HR | MI | SEC | LAT | MIN | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MIN | DEG | RATE |
| 1 | 0 | 32 | 5.873 | 0 | 68 | 8.35N | 141 | 35.44E | 68 | 28N | 141 | 6E | 665765 | 24514 | 137 | 31 | 12 | 12 | 1.895 | |
| 2 | 0 | 32 | 9.188 | 3315 | 67 | 58.49N | 141 | 59.41E | 68 | 12N | 141 | 26E | 665183 | 24517 | 138 | 14 | 12 | 36 | 2.281 | |
| 3 | 0 | 32 | 11.943 | 2755 | 67 | 50.25N | 142 | 19.87E | 68 | 4N | 141 | 45E | 664634 | 24518 | 138 | 32 | 12 | 47 | 2.421 | |
| 4 | 0 | 32 | 14.538 | 2595 | 67 | 42.45N | 142 | 37.37E | 68 | 57N | 142 | 4E | 664102 | 24520 | 138 | 50 | 12 | 57 | 2.483 | |
| 5 | 0 | 32 | 17.068 | 2530 | 67 | 34.81N | 142 | 55.01E | 67 | 49N | 142 | 21E | 663578 | 24521 | 139 | 7 | 13 | 7 | 2.513 | |
| 6 | 0 | 32 | 19.568 | 2500 | 67 | 27.23N | 143 | 12.28E | 67 | 42N | 142 | 39E | 663057 | 24522 | 139 | 23 | 13 | 17 | 2.528 | |
| 7 | 0 | 32 | 22.054 | 2485 | 67 | 19.66N | 143 | 29.28E | 67 | 34N | 142 | 56E | 662541 | 24523 | 139 | 40 | 13 | 27 | 2.539 | |
| 8 | 0 | 32 | 24.529 | 2475 | 67 | 12.09N | 143 | 45.89E | 67 | 27N | 143 | 13E | 662028 | 24525 | 139 | 56 | 13 | 37 | 2.554 | |
| 9 | 0 | 32 | 26.988 | 2460 | 67 | 4.53N | 144 | 2.31E | 67 | 19N | 143 | 30E | 661518 | 24526 | 140 | 12 | 13 | 47 | 2.565 | |
| 10 | 0 | 32 | 29.448 | 2460 | 66 | 56.94N | 144 | 18.56E | 67 | 12N | 143 | 47E | 661011 | 24527 | 140 | 28 | 13 | 57 | 2.570 | |
| 11 | 0 | 32 | 31.898 | 2450 | 66 | 49.36N | 144 | 34.56E | 67 | 6N | 144 | 3E | 660505 | 24528 | 140 | 44 | 14 | 7 | 2.575 | |
| 12 | 0 | 32 | 34.349 | 2450 | 66 | 41.74N | 144 | 50.40E | 66 | 56N | 144 | 35E | 659501 | 24530 | 141 | 15 | 14 | 26 | 2.580 | |
| 13 | 0 | 32 | 36.794 | 2445 | 66 | 34.11N | 145 | 6.04E | 66 | 41N | 144 | 51E | 659003 | 24532 | 141 | 30 | 14 | 36 | 2.586 | |
| 14 | 0 | 32 | 39.233 | 2435 | 66 | 26.47N | 145 | 21.47E | 66 | 34N | 144 | 6E | 658506 | 24533 | 141 | 45 | 14 | 46 | 2.591 | |
| 15 | 0 | 32 | 41.669 | 2435 | 66 | 18.82N | 145 | 36.72E | 66 | 26N | 145 | 22E | 658012 | 24534 | 141 | 59 | 14 | 56 | 2.596 | |
| 16 | 0 | 32 | 44.104 | 2435 | 66 | 11.14N | 145 | 51.80E | 66 | 18N | 145 | 37E | 657520 | 24535 | 142 | 14 | 15 | 6 | 2.602 | |
| 17 | 0 | 32 | 46.533 | 2430 | 66 | 3.45N | 146 | 6.70E | 66 | 11N | 145 | 52E | 657029 | 24536 | 142 | 28 | 15 | 15 | 2.607 | |
| 18 | 0 | 32 | 48.959 | 2425 | 65 | 55.75N | 146 | 21.42E | 66 | 3N | 146 | 7E | 656540 | 24537 | 142 | 42 | 15 | 25 | 2.618 | |
| 19 | 0 | 32 | 51.384 | 2425 | 65 | 48.02N | 146 | 35.98E | 66 | 21E | 147 | 32E | 656055 | 24538 | 142 | 57 | 15 | 35 | 2.618 | |
| 20 | 0 | 32 | 53.804 | 2420 | 65 | 40.28N | 146 | 50.36E | 65 | 17N | 147 | 32E | 655572 | 24540 | 143 | 10 | 15 | 45 | 2.618 | |
| 21 | 0 | 32 | 56.219 | 2415 | 65 | 32.54N | 147 | 4.57E | 65 | 48N | 146 | 36E | 655089 | 24541 | 143 | 24 | 15 | 55 | 2.627 | |
| 22 | 0 | 32 | 58.629 | 2410 | 65 | 24.79N | 147 | 18.60E | 65 | 32N | 147 | 5E | 654609 | 24542 | 143 | 38 | 16 | 4 | 2.639 | |
| 23 | 0 | 33 | 1.044 | 2410 | 65 | 16.99N | 147 | 32.51E | 65 | 24N | 147 | 19E | 654131 | 24543 | 143 | 51 | 16 | 14 | 2.640 | |
| 24 | 0 | 33 | 3.453 | 2415 | 65 | 9.20N | 147 | 46.25E | 65 | 17N | 147 | 32E | 653655 | 24544 | 144 | 4 | 16 | 24 | 2.640 | |
| 25 | 0 | 33 | 5.858 | 2405 | 65 | 1.39N | 147 | 59.83E | 65 | 9N | 147 | 46E | 653181 | 24545 | 144 | 17 | 16 | 33 | 2.640 | |
| 26 | 0 | 33 | 8.259 | 2400 | 64 | 53.57N | 148 | 13.25E | 65 | 5N | 148 | 0E | 652709 | 24546 | 144 | 30 | 16 | 43 | 2.646 | |
| 27 | 0 | 33 | 10.658 | 2400 | 64 | 45.74N | 148 | 26.52E | 65 | 45N | 148 | 13E | 652240 | 24547 | 144 | 43 | 16 | 53 | 2.629 | |
| 28 | 0 | 33 | 13.059 | 2400 | 64 | 37.88N | 148 | 39.67E | 64 | 38N | 148 | 26E | 651771 | 24548 | 144 | 56 | 17 | 2 | 2.629 | |
| 29 | 0 | 33 | 15.451 | 2393 | 64 | 30.03N | 148 | 52.64E | 64 | 30N | 148 | 52E | 650841 | 24551 | 145 | 21 | 17 | 22 | 2.629 | |
| 30 | 0 | 33 | 17.844 | 2390 | 64 | 22.15N | 149 | 5.49E | 64 | 22N | 149 | 5E | 650380 | 24552 | 145 | 33 | 17 | 31 | 2.639 | |
| 31 | 0 | 33 | 20.233 | 2380 | 64 | 14.27N | 149 | 18.19E | 64 | 14N | 149 | 18E | 649920 | 24553 | 145 | 45 | 17 | 41 | 2.640 | |
| 32 | 0 | 33 | 22.623 | 2380 | 64 | 6.36N | 149 | 30.77E | 64 | 6N | 149 | 30E | 649462 | 24554 | 145 | 57 | 17 | 51 | 2.639 | |
| 33 | 0 | 33 | 25.004 | 2380 | 63 | 58.46N | 149 | 43.18E | 64 | 58N | 149 | 43E | 648851 | 24555 | 146 | 9 | 18 | 0 | 2.641 | |
| 34 | 0 | 33 | 27.384 | 2380 | 63 | 50.55N | 149 | 55.46E | 64 | 50N | 149 | 55E | 648300 | 24556 | 146 | 21 | 18 | 10 | 2.646 | |
| 35 | 0 | 33 | 29.765 | 2381 | 63 | 42.61N | 150 | 7.63E | 63 | 42N | 150 | 7E | 648100 | 24557 | 146 | 32 | 18 | 19 | 2.657 | |
| 36 | 0 | 33 | 32.144 | 2379 | 63 | 34.66N | 150 | 19.67E | 63 | 34N | 150 | 19E | 647649 | 24558 | 146 | 44 | 18 | 29 | 2.651 | |
| 37 | 0 | 33 | 34.519 | 2375 | 63 | 26.78N | 150 | 43.51E | 63 | 26N | 150 | 31E | 647280 | 24559 | 146 | 55 | 18 | 39 | 2.657 | |
| 38 | 0 | 33 | 36.884 | 2365 | 63 | 18.76N | 150 | 54.31E | 63 | 18N | 150 | 54E | 646754 | 24560 | 147 | 6 | 18 | 48 | 2.662 | |
| 39 | 0 | 33 | 39.259 | 2375 | 63 | 10.77N | 150 | 54.99E | 63 | 10N | 150 | 54E | 646310 | 24561 | 147 | 17 | 18 | 58 | 2.657 | |
| 40 | 0 | 33 | 41.629 | 2370 | 63 | 2.78N | 151 | 6.53E | 63 | 2N | 151 | 6E | 645866 | 24562 | 147 | 28 | 19 | 7 | 2.662 | |
| 41 | 0 | 33 | 43.993 | 2365 | 62 | 54.78N | 151 | 17.93E | 63 | 54N | 151 | 17E | 645426 | 24563 | 147 | 39 | 19 | 17 | 2.662 | |
| 42 | 0 | 33 | 46.354 | 2360 | 62 | 46.79N | 151 | 29.20E | 63 | 46N | 151 | 29E | 644987 | 24564 | 147 | 50 | 19 | 26 | 2.662 | |
| 43 | 0 | 33 | 48.719 | 2365 | 62 | 38.76N | 151 | 40.40E | 62 | 38N | 151 | 40E | | | | | | | | |
| 44 | 0 | 33 | 51.078 | 2360 | 62 | 30.74N | 151 | 51.46E | 62 | 30N | 151 | 51E | | | | | | | | |
| 45 | 0 | 33 | 53.438 | 2360 | 62 | 22.69N | 152 | 2.42E | 62 | 22N | 151 | 29E | | | | | | | | |

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

FRAME EPHEMERIS MISSION 1017-2

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PASS 1300 AFT 6MAR65

| FRM | Z TIME | DTIM | DEG MIN | DEG LONG | LAT | LONG | ALTITUDE FEET | VELOC F/5 | DEG AZIMUTH | SUN/DEG MI | PITCH DEG MIN | ROLL DEG MIN | YAW DEG MIN | SCAN RATE |
|-----|-------------|------|-----------|------------|----------------|--------|---------------|-----------|-------------|------------|---------------|--------------|-------------|-----------|
| 46 | 0 33 55.788 | 2350 | 62 14.66N | 152 13.22E | 62 38N 151 40E | 644550 | 24565 | 148 1 | 19 36 | ND | ND | ND | ND | 2.674 |
| 47 | 0 33 58.144 | 2355 | 62 6.60N | 152 23.96E | 62 38N 151 51E | 644115 | 24566 | 148 11 | 19 45 | ND | ND | ND | ND | 2.668 |
| 48 | 0 34 0.494 | 2351 | 61 58.54N | 152 34.57E | 62 22N 152 2E | 643682 | 24567 | 148 22 | 19 55 | ND | ND | ND | ND | 2.673 |
| 49 | 0 34 2.844 | 2349 | 61 50.47N | 152 45.09E | 62 14N 152 13E | 643250 | 24568 | 148 32 | 20 4 | ND | ND | ND | ND | 2.675 |
| 50 | 0 34 5.189 | 2346 | 61 42.40N | 152 55.48E | 62 6N 152 23E | 642822 | 24569 | 148 42 | 20 14 | ND | ND | ND | ND | 2.678 |
| 51 | 0 34 7.538 | 2349 | 61 34.30N | 153 5.80E | 61 58N 152 34E | 642394 | 24570 | 148 52 | 20 23 | ND | ND | ND | ND | 2.675 |
| 52 | 0 34 9.884 | 2345 | 61 26.19N | 153 16.01E | 61 58N 152 44E | 641968 | 24571 | 149 2 | 20 33 | ND | ND | ND | ND | 2.679 |
| 53 | 0 34 12.229 | 2345 | 61 18.08N | 153 26.12E | 61 42N 152 55E | 641543 | 24572 | 149 12 | 20 42 | ND | ND | ND | ND | 2.679 |
| 54 | 0 34 14.568 | 2340 | 61 9.97N | 153 36.12E | 61 34N 153 5E | 641122 | 24573 | 149 22 | 20 52 | ND | ND | ND | ND | 2.685 |
| 55 | 0 34 16.903 | 2335 | 61 1.86N | 153 46.01E | 61 26N 153 15E | 640702 | 24574 | 149 32 | 21 1 | ND | ND | ND | ND | 2.691 |
| 56 | 0 34 19.238 | 2335 | 60 53.73N | 153 55.81E | 61 18N 153 25E | 640285 | 24575 | 149 41 | 21 11 | ND | ND | ND | ND | 2.691 |
| 57 | 0 34 21.578 | 2340 | 60 45.58N | 154 5.55E | 61 10N 153 35E | 639868 | 24576 | 149 51 | 21 20 | ND | ND | ND | ND | 2.685 |
| 58 | 0 34 23.908 | 2330 | 60 37.45N | 154 15.16E | 61 2N 153 45E | 639454 | 24577 | 150 0 | 21 30 | ND | ND | ND | ND | 2.697 |
| 59 | 0 34 26.238 | 2330 | 60 29.30N | 154 24.68E | 60 53N 153 55E | 639042 | 24578 | 150 9 | 21 39 | ND | ND | ND | ND | 2.697 |
| 60 | 0 34 28.568 | 2330 | 60 21.14N | 154 34.12E | 60 45N 154 5E | 638631 | 24579 | 150 19 | 21 49 | ND | ND | ND | ND | 2.697 |
| 61 | 0 34 30.898 | 2330 | 60 12.97N | 154 43.47E | 60 37N 154 14E | 638221 | 24580 | 150 28 | 21 58 | ND | ND | ND | ND | 2.697 |
| 62 | 0 34 33.229 | 2330 | 60 4.78N | 154 52.75E | 60 29N 154 24E | 637815 | 24581 | 150 37 | 22 7 | ND | ND | ND | ND | 2.697 |

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED
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PASS 1310 AFT 6MAR65

| FRM | HR | MI | SEC | DTIM | DEG | MIN | LONG | DEG | MIN | LONG | DEG | MIN | LONG | ALTITUDE | VELOC | DEG | MI | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN |
|-----|----|----|--------|-------|-----|--------|------|--------|------|------|------|-----|--------|----------|-------|-----|----|-----|----|-----|----|-------|------|-------|-------|
| | | | | MILS | LAT | LAT | LONG | LAT | LONG | LAT | LONG | MIN | MIN | FEET | F/S | MI | MI | MI | MI | MI | MI | MIN | MIN | MIN | RATE |
| 1 | 1 | 58 | 59.992 | 0 | 74 | 33.15N | 87 | 34.76E | 74 | 42N | 85 | 43E | 705927 | 24423 | 106 | 17 | 0 | 23 | | | | | | 1.777 | |
| 2 | 1 | 59 | 3.527 | 3535 | 74 | 29.08N | 88 | 25.50E | 74 | 38N | 86 | 35E | 705063 | 24425 | 107 | 8 | 0 | 37 | | | | | | 1.777 | |
| 3 | 1 | 59 | 6.508 | 2980 | 74 | 25.58N | 89 | 7.93E | 74 | 35N | 87 | 18E | 704336 | 24426 | 107 | 50 | 0 | 49 | | | | | | 2.108 | |
| 4 | 1 | 59 | 9.332 | 2825 | 74 | 21.97N | 89 | 47.84E | 74 | 32N | 87 | 59E | 703649 | 24428 | 108 | 30 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2.224 | |
| 5 | 1 | 59 | 12.098 | 2765 | 74 | 18.40N | 90 | 26.63E | 74 | 28N | 88 | 39E | 702977 | 24430 | 109 | 9 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2.272 | |
| 6 | 1 | 59 | 14.828 | 2731 | 74 | 14.76N | 91 | 4.64E | 74 | 25N | 89 | 17E | 702314 | 24431 | 109 | 47 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2.301 | |
| 7 | 1 | 59 | 17.548 | 2719 | 74 | 11.02N | 91 | 42.21E | 74 | 22N | 89 | 56E | 701656 | 24433 | 110 | 24 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2.311 | |
| 8 | 1 | 59 | 20.250 | 2703 | 74 | 7.19N | 92 | 19.25E | 74 | 18N | 90 | 34E | 701003 | 24434 | 111 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2.325 | |
| 9 | 1 | 59 | 22.947 | 2697 | 74 | 3.27N | 92 | 55.92E | 74 | 15N | 91 | 12E | 700352 | 24436 | 111 | 38 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.330 | |
| 10 | 1 | 59 | 25.638 | 2690 | 73 | 59.24N | 93 | 32.21E | 74 | 11N | 91 | 49E | 699704 | 24437 | 112 | 14 | 2 | 6 | 2 | 2 | 2 | 2 | 2 | 2.336 | |
| 11 | 1 | 59 | 28.317 | 2680 | 73 | 55.13N | 94 | 8.04E | 74 | 7N | 92 | 26E | 699060 | 24439 | 112 | 50 | 2 | 17 | 2 | 2 | 2 | 2 | 2 | 2.344 | |
| 12 | 1 | 59 | 30.987 | 2670 | 73 | 50.93N | 94 | 43.45E | 74 | 3N | 93 | 2E | 698419 | 24440 | 113 | 25 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2.353 | |
| 13 | 1 | 59 | 33.657 | 2670 | 73 | 46.63N | 95 | 18.55E | 73 | 59N | 93 | 38E | 697780 | 24442 | 114 | 0 | 2 | 4 | 2 | 2 | 2 | 2 | 2 | 2.358 | |
| 14 | 1 | 59 | 36.322 | 2665 | 73 | 42.24N | 95 | 53.28E | 73 | 55N | 94 | 14E | 697142 | 24443 | 114 | 35 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 2.362 | |
| 15 | 1 | 59 | 38.982 | 2660 | 73 | 37.76N | 96 | 27.64E | 73 | 51N | 94 | 49E | 696507 | 24444 | 115 | 9 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 2.371 | |
| 16 | 1 | 59 | 41.633 | 2650 | 73 | 33.20N | 97 | 1.57E | 73 | 46N | 95 | 24E | 695876 | 24446 | 115 | 43 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 2.371 | |
| 17 | 1 | 59 | 44.282 | 2650 | 73 | 28.55N | 97 | 35.17E | 73 | 42N | 95 | 58E | 695246 | 24447 | 116 | 16 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 2.371 | |
| 18 | 1 | 59 | 46.933 | 2650 | 73 | 23.81N | 98 | 8.47E | 73 | 37N | 96 | 33E | 694618 | 24449 | 116 | 49 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2.371 | |
| 19 | 1 | 59 | 49.567 | 2635 | 73 | 19.00N | 98 | 41.27E | 73 | 33N | 97 | 7E | 693993 | 24450 | 117 | 22 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2.385 |
| 20 | 1 | 59 | 52.198 | 2631 | 73 | 14.11N | 99 | 13.10E | 73 | 28N | 97 | 40E | 693371 | 24452 | 117 | 54 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2.388 |
| 21 | 1 | 59 | 54.832 | 2634 | 73 | 9.13N | 99 | 45.86E | 73 | 23N | 98 | 13E | 692750 | 24453 | 118 | 26 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2.385 |
| 22 | 1 | 59 | 57.457 | 2625 | 73 | 4.07N | 100 | 17.60E | 73 | 19N | 98 | 46E | 692132 | 24455 | 118 | 58 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2.394 |
| 23 | 2 | 0 | 0.877 | 2620 | 72 | 58.95N | 100 | 48.97E | 73 | 14N | 99 | 18E | 691516 | 24456 | 119 | 29 | 4 | 2 | 4 | 2 | 4 | 2 | 4 | 2 | 2.398 |
| 24 | 2 | 0 | 2.692 | 2615 | 72 | 53.75N | 101 | 19.97E | 73 | 9N | 99 | 50E | 690902 | 24457 | 120 | 0 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2.403 |
| 25 | 2 | 0 | 5.308 | 2615 | 72 | 48.46N | 101 | 50.66E | 73 | 4N | 100 | 22E | 690290 | 24459 | 120 | 31 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 2.403 |
| 26 | 2 | 0 | 7.918 | 2610 | 72 | 43.11N | 102 | 20.98E | 72 | 59N | 100 | 53E | 689681 | 24460 | 121 | 1 | 5 | 7 | 5 | 1 | 5 | 7 | 5 | 2.411 | |
| 27 | 2 | 0 | 10.523 | 2606 | 72 | 37.69N | 102 | 50.94E | 72 | 53N | 101 | 24E | 689073 | 24462 | 121 | 31 | 5 | 1 | 5 | 1 | 5 | 1 | 5 | 2.413 | |
| 28 | 2 | 0 | 13.128 | 2604 | 72 | 32.20N | 103 | 20.58E | 72 | 48N | 101 | 55E | 688467 | 24463 | 122 | 0 | 5 | 1 | 5 | 1 | 5 | 1 | 5 | 2.421 | |
| 29 | 2 | 0 | 15.723 | 2595 | 72 | 26.64N | 103 | 49.81E | 72 | 43N | 101 | 55E | 687864 | 24464 | 122 | 29 | 5 | 2 | 5 | 2 | 5 | 2 | 5 | 2.421 | |
| 30 | 2 | 0 | 18.317 | 2595 | 72 | 21.02N | 104 | 18.73E | 72 | 37N | 102 | 55E | 687262 | 24466 | 122 | 58 | 5 | 3 | 5 | 3 | 5 | 3 | 5 | 2.426 | |
| 31 | 2 | 0 | 20.907 | 2590 | 72 | 15.33N | 104 | 47.30E | 72 | 32N | 103 | 24E | 686664 | 24467 | 123 | 27 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 2.431 | |
| 32 | 2 | 0 | 23.492 | 2585 | 72 | 9.58N | 105 | 15.51E | 72 | 26N | 103 | 53E | 686067 | 24469 | 123 | 55 | 6 | 0 | 6 | 0 | 6 | 0 | 6 | 2.435 | |
| 33 | 2 | 0 | 26.077 | 2585 | 72 | 3.76N | 105 | 43.42E | 72 | 21N | 104 | 22E | 685471 | 24470 | 124 | 23 | 6 | 1 | 6 | 1 | 6 | 1 | 6 | 2.435 | |
| 34 | 2 | 0 | 28.657 | 2580 | 71 | 57.89N | 106 | 10.99E | 72 | 15N | 104 | 51E | 684879 | 24471 | 124 | 50 | 6 | 2 | 6 | 2 | 6 | 2 | 6 | 2.440 | |
| 35 | 2 | 0 | 31.232 | 2575 | 71 | 51.95N | 106 | 38.20E | 72 | 9N | 105 | 19E | 684288 | 24473 | 125 | 17 | 6 | 3 | 6 | 3 | 6 | 3 | 6 | 2.440 | |
| 36 | 2 | 0 | 33.803 | 2570 | 71 | 45.97N | 107 | 5.08E | 72 | 3N | 105 | 47E | 683700 | 24474 | 125 | 44 | 6 | 4 | 6 | 4 | 6 | 4 | 6 | 2.445 | |
| 37 | 2 | 0 | 36.372 | 2565 | 71 | 39.92N | 107 | 31.66E | 71 | 57N | 106 | 14E | 683113 | 24475 | 126 | 10 | 6 | 5 | 6 | 5 | 6 | 5 | 6 | 2.445 | |
| 38 | 2 | 0 | 38.938 | 2565 | 71 | 33.81N | 107 | 57.90E | 71 | 52N | 106 | 41E | 682528 | 24477 | 126 | 36 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2.450 | |
| 39 | 2 | 0 | 41.497 | 2560 | 71 | 27.66N | 108 | 23.81E | 71 | 46N | 107 | 8E | 681946 | 24478 | 127 | 2 | 7 | 12 | 7 | 12 | 7 | 12 | 7 | 2.454 | |
| 40 | 2 | 1 | 54.448 | 72951 | 68 | 9.90N | 118 | 52.45E | 68 | 31N | 117 | 58E | 665916 | 24515 | 137 | 27 | 12 | 7 | 12 | 7 | 12 | 7 | 12 | 2.486 | |
| 41 | 2 | 1 | 57.678 | 3229 | 68 | 0.31N | 119 | 15.87E | 68 | 22N | 118 | 22E | 665234 | 24517 | 137 | 50 | 12 | 2 | 12 | 2 | 12 | 2 | 12 | 2.493 | |
| 42 | 2 | 2 | 0.418 | 2740 | 67 | 52.12N | 119 | 35.47E | 68 | 14N | 118 | 43E | 664655 | 24518 | 138 | 10 | 12 | 3 | 12 | 3 | 12 | 3 | 12 | 2.496 | |
| 43 | 2 | 2 | 3.013 | 2595 | 67 | 44.33N | 119 | 53.82E | 68 | 6N | 119 | 2E | 664110 | 24520 | 138 | 28 | 12 | 4 | 12 | 4 | 12 | 4 | 12 | 2.483 | |
| 44 | 2 | 2 | 5.543 | 2530 | 67 | 36.70N | 120 | 11.51E | 67 | 58N | 119 | 20E | 663579 | 24521 | 138 | 45 | 12 | 5 | 12 | 5 | 12 | 5 | 12 | 2.483 | |
| 45 | 2 | 2 | 8.049 | 2506 | 67 | 29.11N | 120 | 28.84E | 67 | 51N | 119 | 38E | 663055 | 24522 | 139 | 3 | 13 | 2 | | | | | | | 2.507 |

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1310 AFT 6MAR65

FRAME EPHMERIS

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| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN |
|-----|----|----|--------|------|-----|--------|-----|--------|-----|-----|-----|------|----------|-------|-----|-----|-----|-----|-------|------|-----|-------|
| 2 | 2 | 2 | 2 | MILS | MIN | MIN | MIN | MIN | MIN | MIN | MIN | MIN | FEET | F/S | MIN | MIN | MIN | MIN | MIN | MIN | MIN | RATE |
| 46 | 2 | 2 | 10.537 | 2489 | 67 | 21.53N | 120 | 45.86E | 67 | 43N | 119 | 56E | 662536 | 24523 | 139 | 19 | 13 | 12 | ND | ND | ND | 2.524 |
| 47 | 2 | 2 | 13.018 | 2480 | 67 | 13.95N | 121 | 2.64E | 67 | 36N | 120 | 13E | 662021 | 24524 | 139 | 36 | 13 | 22 | ND | ND | ND | 2.534 |
| 48 | 2 | 2 | 15.482 | 2465 | 67 | 6.39N | 121 | 19.13E | 67 | 28N | 120 | 30E | 661589 | 24526 | 139 | 52 | 13 | 32 | ND | ND | ND | 2.549 |
| 49 | 2 | 2 | 17.947 | 2465 | 66 | 58.79N | 121 | 35.45E | 67 | 21N | 120 | 47E | 661000 | 24527 | 140 | 9 | 13 | 42 | ND | ND | ND | 2.549 |
| 50 | 2 | 2 | 20.407 | 2460 | 66 | 51.18N | 121 | 51.56E | 67 | 13N | 121 | 3E | 660493 | 24528 | 140 | 24 | 13 | 52 | ND | ND | ND | 2.554 |
| 51 | 2 | 2 | 22.862 | 2455 | 66 | 43.56N | 122 | 7.47E | 67 | 6N | 121 | 20E | 659988 | 24529 | 140 | 40 | 14 | 2 | ND | ND | ND | 2.559 |
| 52 | 2 | 2 | 25.308 | 2445 | 66 | 35.30N | 122 | 23.15E | 66 | 58N | 121 | 36E | 659486 | 24530 | 140 | 56 | 14 | 12 | ND | ND | ND | 2.570 |
| 53 | 2 | 2 | 27.753 | 2445 | 66 | 28.28N | 122 | 38.66E | 66 | 51N | 121 | 52E | 658987 | 24531 | 141 | 11 | 14 | 22 | ND | ND | ND | 2.570 |
| 54 | 2 | 2 | 30.202 | 2450 | 66 | 20.59N | 122 | 54.03E | 66 | 43N | 122 | 8E | 658487 | 24533 | 141 | 26 | 14 | 32 | ND | ND | ND | 2.565 |
| 55 | 2 | 2 | 32.643 | 2440 | 66 | 12.90N | 123 | 9.19E | 66 | 35N | 122 | 24E | 657991 | 24534 | 141 | 41 | 14 | 41 | ND | ND | ND | 2.575 |
| 56 | 2 | 2 | 35.077 | 2435 | 66 | 5.20N | 123 | 24.15E | 66 | 28N | 122 | 39E | 657498 | 24535 | 141 | 56 | 14 | 51 | ND | ND | ND | 2.580 |
| 57 | 2 | 2 | 37.513 | 2435 | 65 | 57.47N | 123 | 38.97E | 66 | 20N | 122 | 54E | 657006 | 24536 | 142 | 11 | 15 | 1 | ND | ND | ND | 2.580 |
| 58 | 2 | 2 | 39.942 | 2430 | 65 | 49.74N | 123 | 53.59E | 66 | 12N | 123 | 10E | 656516 | 24537 | 142 | 25 | 15 | 11 | ND | ND | ND | 2.586 |
| 59 | 2 | 2 | 42.372 | 2430 | 65 | 41.97N | 124 | 8.06E | 66 | 5N | 123 | 24E | 656028 | 24538 | 142 | 40 | 15 | 21 | ND | ND | ND | 2.586 |
| 60 | 2 | 2 | 44.798 | 2425 | 65 | 34.20N | 124 | 22.36E | 65 | 57N | 123 | 39E | 655542 | 24540 | 142 | 54 | 15 | 31 | ND | ND | ND | 2.591 |
| 61 | 2 | 2 | 47.218 | 2420 | 65 | 26.42N | 124 | 36.48E | 65 | 49N | 123 | 54E | 655059 | 24541 | 143 | 8 | 15 | 40 | ND | ND | ND | 2.596 |
| 62 | 2 | 2 | 49.638 | 2420 | 65 | 18.61N | 124 | 50.45E | 65 | 41N | 124 | 8E | 654577 | 24542 | 143 | 21 | 15 | 50 | ND | ND | ND | 2.596 |
| 63 | 2 | 2 | 52.053 | 2415 | 65 | 10.80N | 125 | 4.26E | 65 | 34N | 124 | 22E | 654098 | 24543 | 143 | 35 | 16 | 0 | ND | ND | ND | 2.602 |
| 64 | 2 | 2 | 54.463 | 2410 | 65 | 2.98N | 125 | 17.89E | 65 | 26N | 124 | 37E | 653621 | 24544 | 143 | 48 | 16 | 10 | ND | ND | ND | 2.607 |
| 65 | 2 | 2 | 56.873 | 2411 | 64 | 55.14N | 125 | 31.39E | 65 | 18N | 124 | 50E | 653145 | 24545 | 144 | 2 | 16 | 19 | ND | ND | ND | 2.607 |
| 66 | 2 | 2 | 59.283 | 2410 | 64 | 47.28N | 125 | 44.75E | 65 | 10N | 125 | 4E | 652672 | 24546 | 144 | 15 | 16 | 29 | ND | ND | ND | 2.614 |
| 67 | 2 | 3 | 1.688 | 2404 | 64 | 39.41N | 126 | 57.95E | 65 | 3N | 125 | 18E | 652200 | 24547 | 144 | 28 | 16 | 39 | ND | ND | ND | 2.613 |
| 68 | 2 | 3 | 4.093 | 2405 | 64 | 31.51N | 126 | 11.01E | 64 | 55N | 125 | 31E | 651730 | 24548 | 144 | 41 | 16 | 49 | ND | ND | ND | 2.618 |
| 69 | 2 | 3 | 6.407 | 2395 | 64 | 23.64N | 126 | 23.89E | 64 | 47N | 125 | 45E | 651264 | 24550 | 144 | 54 | 16 | 58 | ND | ND | ND | 2.623 |
| 70 | 2 | 3 | 8.888 | 2400 | 64 | 15.72N | 126 | 36.68E | 64 | 39N | 125 | 58E | 650798 | 24551 | 145 | 6 | 17 | 8 | ND | ND | ND | 2.618 |
| 71 | 2 | 3 | 11.283 | 2396 | 64 | 7.79N | 126 | 49.31E | 64 | 31N | 126 | 11E | 650334 | 24552 | 145 | 19 | 17 | 18 | ND | ND | ND | 2.622 |
| 72 | 2 | 3 | 13.678 | 2394 | 63 | 59.85N | 127 | 1.81E | 64 | 23N | 126 | 24E | 649872 | 24553 | 145 | 31 | 17 | 27 | ND | ND | ND | 2.625 |
| 73 | 2 | 3 | 16.067 | 2390 | 63 | 51.91N | 127 | 14.16E | 64 | 15N | 126 | 36E | 649412 | 24554 | 145 | 43 | 17 | 37 | ND | ND | ND | 2.629 |
| 74 | 2 | 3 | 18.457 | 2390 | 63 | 43.95N | 127 | 26.44E | 64 | 7N | 126 | 49E | 648954 | 24555 | 145 | 55 | 17 | 47 | ND | ND | ND | 2.629 |
| 75 | 2 | 3 | 20.843 | 2385 | 63 | 35.98N | 127 | 38.49E | 63 | 59N | 127 | 2E | 648499 | 24556 | 146 | 7 | 17 | 56 | ND | ND | ND | 2.634 |
| 76 | 2 | 3 | 23.224 | 2381 | 63 | 28.00N | 127 | 50.44E | 63 | 51N | 127 | 14E | 648045 | 24557 | 146 | 19 | 18 | 6 | ND | ND | ND | 2.639 |
| 77 | 2 | 3 | 25.607 | 2384 | 63 | 20.00N | 128 | 2.29E | 63 | 43N | 127 | 26E | 647593 | 24558 | 146 | 31 | 18 | 16 | ND | ND | ND | 2.636 |
| 78 | 2 | 3 | 27.963 | 2376 | 63 | 12.01N | 128 | 13.99E | 63 | 36N | 127 | 38E | 647144 | 24559 | 146 | 42 | 18 | 25 | ND | ND | ND | 2.644 |
| 79 | 2 | 3 | 30.362 | 2379 | 63 | 3.99N | 128 | 25.59E | 63 | 28N | 127 | 50E | 646695 | 24560 | 146 | 53 | 18 | 35 | ND | ND | ND | 2.644 |
| 80 | 2 | 3 | 32.732 | 2370 | 62 | 55.98N | 128 | 37.04E | 63 | 20N | 128 | 2E | 646250 | 24561 | 147 | 5 | 18 | 44 | ND | ND | ND | 2.651 |
| 81 | 2 | 3 | 35.107 | 2375 | 62 | 47.94N | 128 | 48.40E | 63 | 12N | 128 | 14E | 645805 | 24562 | 147 | 16 | 18 | 54 | ND | ND | ND | 2.646 |
| 82 | 2 | 3 | 37.478 | 2370 | 62 | 39.89N | 128 | 59.63E | 63 | 4N | 128 | 25E | 645363 | 24563 | 147 | 27 | 19 | 4 | ND | ND | ND | 2.651 |
| 83 | 2 | 3 | 39.843 | 2365 | 62 | 31.85N | 129 | 10.73E | 62 | 56N | 128 | 37E | 644923 | 24564 | 147 | 38 | 19 | 13 | ND | ND | ND | 2.657 |
| 84 | 2 | 3 | 42.202 | 2360 | 62 | 23.81N | 129 | 21.70E | 62 | 48N | 128 | 48E | 644486 | 24565 | 147 | 49 | 19 | 23 | ND | ND | ND | 2.662 |
| 85 | 2 | 3 | 44.568 | 2366 | 62 | 15.73N | 129 | 32.60E | 62 | 39N | 128 | 59E | 644049 | 24566 | 147 | 59 | 19 | 32 | ND | ND | ND | 2.656 |

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TOP SECRET

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LIST DATE 10MAY65

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PASS 1320 AFT 6MAR65

| FRM | Z TIME | DTIM | CAMERA NADIR | | FORMAT CENTER | | ALTITUDE | | VELOC | | AZIMUTH | | SUN/ | | PITCH | | ROLL | | YAW | | SCAN |
|-----|--------|------|--------------|-----|---------------|--------|----------|--------|--------|-------|---------|----|------|----|-------|-----|------|-----|-----|-------|------|
| HR | MI | SEC | DEG | MIN | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MI | DEG | MIN | DEG | MIN | DEG | MIN | RATE |
| 1 | 3 | 32 | 1.687 | 0 | 67 | 14.87N | 98 | 21.21E | 661581 | 24525 | 139 | 34 | 13 | 18 | ND | ND | ND | ND | ND | 1.913 | |
| 2 | 3 | 32 | 4.972 | 0 | 67 | 4.78N | 98 | 43.18E | 660902 | 24527 | 139 | 56 | 13 | 32 | ND | ND | ND | ND | ND | 1.913 | |
| 3 | 3 | 32 | 7.712 | 0 | 66 | 56.33N | 99 | 1.28E | 660338 | 24528 | 140 | 14 | 13 | 43 | ND | ND | ND | ND | ND | 2.293 | |
| 4 | 3 | 32 | 10.298 | 0 | 66 | 48.32N | 99 | 18.15E | 659808 | 24529 | 140 | 30 | 13 | 53 | ND | ND | ND | ND | ND | 2.430 | |
| 5 | 3 | 32 | 12.826 | 0 | 66 | 40.46N | 99 | 34.47E | 659291 | 24531 | 140 | 46 | 14 | 3 | ND | ND | ND | ND | ND | 2.484 | |
| 6 | 3 | 32 | 15.326 | 0 | 66 | 32.65N | 99 | 50.43E | 658271 | 24532 | 141 | 2 | 14 | 13 | ND | ND | ND | ND | ND | 2.513 | |
| 7 | 3 | 32 | 17.803 | 0 | 66 | 24.89N | 100 | 6.06E | 658277 | 24533 | 141 | 18 | 14 | 23 | ND | ND | ND | ND | ND | 2.538 | |
| 8 | 3 | 32 | 20.271 | 0 | 66 | 17.12N | 100 | 21.49E | 657278 | 24535 | 141 | 48 | 14 | 43 | ND | ND | ND | ND | ND | 2.545 | |
| 9 | 3 | 32 | 22.736 | 0 | 66 | 9.34N | 100 | 36.72E | 656292 | 24538 | 142 | 18 | 15 | 3 | ND | ND | ND | ND | ND | 2.549 | |
| 10 | 3 | 32 | 25.187 | 0 | 66 | 1.58N | 100 | 51.71E | 656292 | 24538 | 142 | 18 | 15 | 3 | ND | ND | ND | ND | ND | 2.565 | |
| 11 | 3 | 32 | 27.637 | 0 | 65 | 53.79N | 101 | 6.54E | 655802 | 24539 | 142 | 32 | 15 | 13 | ND | ND | ND | ND | ND | 2.570 | |
| 12 | 3 | 32 | 30.081 | 0 | 65 | 46.00N | 101 | 21.18E | 654828 | 24541 | 142 | 46 | 15 | 23 | ND | ND | ND | ND | ND | 2.575 | |
| 13 | 3 | 32 | 32.521 | 0 | 65 | 38.19N | 101 | 35.64E | 654346 | 24541 | 143 | 0 | 15 | 33 | ND | ND | ND | ND | ND | 2.575 | |
| 14 | 3 | 32 | 34.962 | 0 | 65 | 30.36N | 101 | 49.96E | 654346 | 24541 | 143 | 0 | 15 | 33 | ND | ND | ND | ND | ND | 2.575 | |
| 15 | 3 | 32 | 37.392 | 0 | 65 | 22.53N | 102 | 4.06E | 654346 | 24542 | 143 | 14 | 15 | 43 | ND | ND | ND | ND | ND | 2.586 | |
| 16 | 3 | 32 | 39.826 | 0 | 65 | 14.67N | 102 | 18.05E | 653865 | 24543 | 143 | 28 | 15 | 53 | ND | ND | ND | ND | ND | 2.586 | |
| 17 | 3 | 32 | 42.257 | 0 | 65 | 6.79N | 102 | 31.87E | 653385 | 24544 | 143 | 42 | 16 | 2 | ND | ND | ND | ND | ND | 2.586 | |
| 18 | 3 | 32 | 44.677 | 0 | 64 | 58.93N | 102 | 45.49E | 652909 | 24545 | 143 | 55 | 16 | 12 | ND | ND | ND | ND | ND | 2.596 | |
| 19 | 3 | 32 | 47.097 | 0 | 64 | 51.04N | 102 | 58.97E | 652434 | 24547 | 144 | 9 | 16 | 22 | ND | ND | ND | ND | ND | 2.596 | |
| 20 | 3 | 32 | 49.513 | 0 | 64 | 43.15N | 103 | 12.30E | 651962 | 24548 | 144 | 22 | 16 | 32 | ND | ND | ND | ND | ND | 2.597 | |
| 21 | 3 | 32 | 51.932 | 0 | 64 | 35.22N | 103 | 25.50E | 651490 | 24549 | 144 | 35 | 16 | 42 | ND | ND | ND | ND | ND | 2.597 | |
| 22 | 3 | 32 | 54.342 | 0 | 64 | 27.30N | 103 | 38.53E | 651023 | 24550 | 144 | 48 | 16 | 51 | ND | ND | ND | ND | ND | 2.607 | |
| 23 | 3 | 32 | 56.746 | 0 | 64 | 19.38N | 103 | 51.40E | 650557 | 24551 | 145 | 0 | 17 | 1 | ND | ND | ND | ND | ND | 2.613 | |
| 24 | 3 | 32 | 59.153 | 0 | 64 | 11.43N | 104 | 4.15E | 650093 | 24552 | 145 | 13 | 17 | 11 | ND | ND | ND | ND | ND | 2.610 | |
| 25 | 3 | 33 | 1.563 | 0 | 64 | 3.45N | 104 | 16.78E | 649629 | 24553 | 145 | 25 | 17 | 21 | ND | ND | ND | ND | ND | 2.608 | |
| 26 | 3 | 33 | 3.962 | 0 | 63 | 55.48N | 104 | 29.24E | 649169 | 24554 | 145 | 38 | 17 | 30 | ND | ND | ND | ND | ND | 2.619 | |
| 27 | 3 | 33 | 6.361 | 0 | 63 | 47.49N | 104 | 41.58E | 648711 | 24555 | 145 | 50 | 17 | 40 | ND | ND | ND | ND | ND | 2.618 | |
| 28 | 3 | 33 | 8.757 | 0 | 63 | 39.50N | 104 | 53.78E | 648254 | 24556 | 146 | 2 | 17 | 50 | ND | ND | ND | ND | ND | 2.623 | |
| 29 | 3 | 33 | 11.147 | 0 | 63 | 31.50N | 105 | 5.83E | 647800 | 24557 | 146 | 14 | 17 | 59 | ND | ND | ND | ND | ND | 2.628 | |
| 30 | 3 | 33 | 13.547 | 0 | 63 | 23.45N | 105 | 17.81E | 647346 | 24558 | 146 | 25 | 18 | 9 | ND | ND | ND | ND | ND | 2.619 | |
| 31 | 3 | 33 | 15.932 | 0 | 63 | 15.44N | 105 | 29.60E | 646897 | 24560 | 146 | 37 | 18 | 19 | ND | ND | ND | ND | ND | 2.634 | |
| 32 | 3 | 33 | 18.321 | 0 | 63 | 7.39N | 105 | 41.30E | 646448 | 24561 | 146 | 49 | 18 | 28 | ND | ND | ND | ND | ND | 2.629 | |
| 33 | 3 | 33 | 20.706 | 0 | 62 | 59.34N | 105 | 52.87E | 646001 | 24562 | 147 | 0 | 18 | 38 | ND | ND | ND | ND | ND | 2.634 | |
| 34 | 3 | 33 | 23.087 | 0 | 62 | 51.28N | 106 | 4.30E | 645557 | 24563 | 147 | 11 | 18 | 48 | ND | ND | ND | ND | ND | 2.640 | |
| 35 | 3 | 33 | 25.462 | 0 | 62 | 43.23N | 106 | 15.60E | 645115 | 24564 | 147 | 22 | 18 | 57 | ND | ND | ND | ND | ND | 2.640 | |
| 36 | 3 | 33 | 27.842 | 0 | 62 | 35.14N | 106 | 26.82E | 644674 | 24565 | 147 | 33 | 19 | 7 | ND | ND | ND | ND | ND | 2.646 | |
| 37 | 3 | 33 | 30.217 | 0 | 62 | 27.06N | 106 | 37.90E | 644235 | 24566 | 147 | 44 | 19 | 17 | ND | ND | ND | ND | ND | 2.646 | |
| 38 | 3 | 33 | 32.587 | 0 | 62 | 18.97N | 106 | 48.86E | 643799 | 24567 | 147 | 55 | 19 | 26 | ND | ND | ND | ND | ND | 2.651 | |
| 39 | 3 | 33 | 34.956 | 0 | 62 | 10.87N | 107 | 59.71E | 643364 | 24568 | 148 | 6 | 19 | 36 | ND | ND | ND | ND | ND | 2.651 | |
| 40 | 3 | 33 | 37.322 | 0 | 62 | 2.76N | 107 | 10.45E | 642932 | 24569 | 148 | 16 | 19 | 45 | ND | ND | ND | ND | ND | 2.656 | |
| 41 | 3 | 33 | 39.689 | 0 | 61 | 54.64N | 107 | 21.09E | 642502 | 24570 | 148 | 27 | 19 | 55 | ND | ND | ND | ND | ND | 2.654 | |
| 42 | 3 | 33 | 42.057 | 0 | 61 | 46.50N | 107 | 31.64E | 642072 | 24571 | 148 | 37 | 20 | 5 | ND | ND | ND | ND | ND | 2.654 | |
| 43 | 3 | 33 | 44.416 | 0 | 61 | 38.37N | 107 | 42.05E | 641645 | 24572 | 148 | 47 | 20 | 14 | ND | ND | ND | ND | ND | 2.662 | |
| 44 | 3 | 33 | 46.772 | 0 | 61 | 30.23N | 107 | 52.35E | 641220 | 24573 | 148 | 57 | 20 | 24 | ND | ND | ND | ND | ND | 2.662 | |
| 45 | 3 | 33 | 49.133 | 0 | 61 | 22.07N | 108 | 2.58E | 640798 | 24574 | 149 | 7 | 20 | 33 | ND | ND | ND | ND | ND | 2.662 | |

TOP SECRET

HANDLE VIA

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

ICS 84869-04

PASS 1320 AFT 6MAR65 FRAME EPHEMERIS MISSION 1017-2 ID 43 LIST DATE 10MAY65 PAGE 140

| FRM | HR | MI | SEC | DTIM | MILS | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | ALTITUDE | VELOC | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN |
|-----|----|----|--------|-------|------|--------|------------|-----|------|-----|------|--------|-------|----------|-------|-----|-----|-----|-----|-------|------|-----|-------|
| | | | | | | LAT | LONG | LAT | LONG | LAT | LONG | LAT | LONG | FEET | F/S | MI | DEG | MI | DEG | MIN | DEG | MIN | RATE |
| 46 | 3 | 33 | 51.482 | 2350 | 61 | 13.93N | 108 12.67E | 61 | 38N | 107 | 42E | 640378 | 24575 | 149 | 17 | 20 | 43 | | | | | | 2.674 |
| 47 | 3 | 33 | 53.837 | 2354 | 60 | 5.76N | 108 22.69E | 61 | 38N | 107 | 52E | 639959 | 24576 | 149 | 27 | 20 | 52 | | | | | | 2.669 |
| 48 | 3 | 33 | 56.191 | 2355 | 60 | 57.57N | 108 32.61E | 61 | 22N | 108 | 2E | 639654 | 24577 | 149 | 37 | 21 | 2 | | | | | | 2.668 |
| 49 | 3 | 33 | 58.541 | 2350 | 60 | 49.39N | 108 42.43E | 61 | 13N | 108 | 12E | 639125 | 24578 | 149 | 46 | 21 | 11 | | | | | | 2.674 |
| 50 | 3 | 34 | 0.883 | 2341 | 60 | 41.22N | 108 52.13E | 61 | 5N | 108 | 22E | 638713 | 24579 | 149 | 56 | 21 | 21 | | | | | | 2.684 |
| 51 | 3 | 34 | 3.227 | 2344 | 60 | 33.03N | 109 1.74E | 60 | 57N | 108 | 32E | 638302 | 24580 | 150 | 5 | 21 | 30 | | | | | | 2.681 |
| 52 | 3 | 34 | 5.563 | 2336 | 60 | 24.86N | 109 11.25E | 60 | 49N | 108 | 42E | 637895 | 24581 | 150 | 14 | 21 | 40 | | | | | | 2.690 |
| 53 | 3 | 34 | 7.906 | 2344 | 60 | 16.64N | 109 20.70E | 60 | 41N | 108 | 51E | 637486 | 24582 | 150 | 24 | 21 | 49 | | | | | | 2.681 |
| 54 | 3 | 34 | 10.242 | 2336 | 60 | 8.44N | 109 30.03E | 60 | 33N | 109 | 1E | 637081 | 24583 | 150 | 33 | 21 | 59 | | | | | | 2.690 |
| 55 | 3 | 34 | 12.577 | 2335 | 60 | 0.23N | 109 39.28E | 60 | 24N | 109 | 11E | 636679 | 24584 | 150 | 42 | 22 | 8 | | | | | | 2.691 |
| 56 | 3 | 34 | 14.916 | 2339 | 59 | 51.99N | 109 48.46E | 60 | 16N | 109 | 20E | 636276 | 24584 | 150 | 51 | 22 | 18 | | | | | | 2.686 |
| 57 | 3 | 34 | 17.242 | 2326 | 59 | 43.79N | 109 57.52E | 60 | 8N | 109 | 29E | 635878 | 24585 | 151 | 0 | 22 | 27 | | | | | | 2.701 |
| 58 | 3 | 34 | 19.581 | 2339 | 59 | 35.53N | 110 6.54E | 60 | 0N | 109 | 39E | 635478 | 24586 | 151 | 8 | 22 | 37 | | | | | | 2.686 |
| 59 | 3 | 34 | 21.911 | 2330 | 59 | 27.29N | 110 15.46E | 59 | 52N | 109 | 48E | 635083 | 24587 | 151 | 17 | 22 | 46 | | | | | | 2.697 |
| 60 | 3 | 34 | 24.236 | 2325 | 59 | 19.05N | 110 24.28E | 59 | 43N | 109 | 57E | 634690 | 24588 | 151 | 26 | 22 | 56 | | | | | | 2.702 |
| 61 | 3 | 34 | 26.562 | 2325 | 59 | 10.80N | 110 33.02E | 59 | 35N | 110 | 6E | 634298 | 24589 | 151 | 34 | 23 | 5 | | | | | | 2.702 |
| 62 | 3 | 36 | 1.257 | 94695 | 53 | 26.53N | 115 34.84E | 53 | 51N | 115 | 15E | 619798 | 24623 | 156 | 25 | 29 | 29 | | | | | | 0.866 |
| 63 | 3 | 36 | 4.352 | 3095 | 53 | 15.05N | 115 43.19E | 53 | 40N | 115 | 24E | 619374 | 24624 | 156 | 33 | 29 | 41 | | | | | | 2.030 |
| 64 | 3 | 36 | 6.911 | 2560 | 53 | 5.54N | 115 50.03E | 53 | 30N | 115 | 31E | 619026 | 24625 | 156 | 39 | 29 | 52 | | | | | | 2.454 |
| 65 | 3 | 36 | 9.316 | 2405 | 52 | 56.60N | 115 56.41E | 53 | 21N | 115 | 37E | 618701 | 24626 | 156 | 46 | 30 | 1 | | | | | | 2.613 |
| 66 | 3 | 36 | 11.661 | 2345 | 52 | 47.88N | 116 2.59E | 53 | 13N | 115 | 44E | 618387 | 24627 | 156 | 51 | 30 | 11 | | | | | | 2.679 |
| 67 | 3 | 36 | 13.972 | 2310 | 52 | 39.28N | 116 8.63E | 53 | 4N | 115 | 50E | 618079 | 24627 | 156 | 57 | 30 | 20 | | | | | | 2.720 |
| 68 | 3 | 36 | 16.268 | 2296 | 52 | 30.72N | 116 14.59E | 52 | 55N | 115 | 56E | 617774 | 24628 | 157 | 3 | 30 | 30 | | | | | | 2.737 |
| 69 | 3 | 36 | 18.557 | 2289 | 52 | 22.19N | 116 20.50E | 52 | 47N | 116 | 2E | 617174 | 24629 | 157 | 8 | 30 | 39 | | | | | | 2.745 |
| 70 | 3 | 36 | 20.838 | 2281 | 52 | 13.68N | 116 26.34E | 52 | 38N | 116 | 8E | 617174 | 24630 | 157 | 14 | 30 | 48 | | | | | | 2.755 |
| 71 | 3 | 36 | 23.117 | 2280 | 52 | 5.16N | 116 32.13E | 52 | 30N | 116 | 14E | 616877 | 24631 | 157 | 19 | 30 | 57 | | | | | | 2.756 |
| 72 | 3 | 36 | 25.401 | 2284 | 51 | 56.63N | 116 37.90E | 52 | 21N | 116 | 20E | 616581 | 24631 | 157 | 25 | 31 | 7 | | | | | | 2.751 |
| 73 | 3 | 36 | 27.672 | 2270 | 51 | 48.14N | 116 43.59E | 52 | 13N | 116 | 25E | 616290 | 24632 | 157 | 30 | 31 | 16 | | | | | | 2.768 |
| 74 | 3 | 36 | 29.941 | 2270 | 51 | 39.65N | 116 49.24E | 52 | 4N | 116 | 31E | 616000 | 24632 | 157 | 35 | 31 | 25 | | | | | | 2.768 |
| 75 | 3 | 36 | 32.212 | 2270 | 51 | 31.15N | 116 54.86E | 51 | 56N | 116 | 37E | 615711 | 24633 | 157 | 41 | 31 | 34 | | | | | | 2.768 |
| 76 | 3 | 36 | 34.481 | 2270 | 51 | 22.64N | 117 0.43E | 51 | 47N | 116 | 43E | 615425 | 24634 | 157 | 46 | 31 | 43 | | | | | | 2.768 |
| 77 | 3 | 36 | 36.746 | 2265 | 51 | 14.15N | 117 5.96E | 51 | 39N | 116 | 48E | 615141 | 24634 | 157 | 51 | 31 | 53 | | | | | | 2.774 |
| 78 | 3 | 36 | 39.012 | 2265 | 51 | 5.65N | 117 11.45E | 51 | 30N | 116 | 54E | 614860 | 24635 | 157 | 56 | 32 | 2 | | | | | | 2.774 |
| 79 | 3 | 36 | 41.281 | 2270 | 50 | 57.13N | 117 16.91E | 51 | 22N | 116 | 59E | 614579 | 24636 | 158 | 1 | 32 | 11 | | | | | | 2.768 |
| 80 | 3 | 36 | 43.547 | 2265 | 50 | 48.62N | 117 22.33E | 51 | 13N | 117 | 5E | 614301 | 24636 | 158 | 7 | 32 | 20 | | | | | | 2.774 |
| 81 | 3 | 36 | 45.803 | 2256 | 50 | 40.14N | 117 27.69E | 51 | 5N | 117 | 10E | 614026 | 24637 | 158 | 12 | 32 | 29 | | | | | | 2.785 |
| 82 | 3 | 36 | 48.066 | 2264 | 50 | 31.62N | 117 33.03E | 50 | 56N | 117 | 16E | 613751 | 24638 | 158 | 17 | 32 | 39 | | | | | | 2.775 |
| 83 | 3 | 36 | 50.331 | 2265 | 50 | 23.10N | 117 38.34E | 50 | 48N | 117 | 21E | 613479 | 24638 | 158 | 22 | 32 | 48 | | | | | | 2.774 |
| 84 | 3 | 36 | 52.588 | 2256 | 50 | 14.60N | 117 43.59E | 50 | 39N | 117 | 27E | 613209 | 24639 | 158 | 26 | 32 | 57 | | | | | | 2.785 |
| 85 | 3 | 36 | 54.843 | 2255 | 50 | 6.10N | 117 48.81E | 50 | 31N | 117 | 32E | 612941 | 24640 | 158 | 31 | 33 | 6 | | | | | | 2.786 |
| 86 | 3 | 36 | 57.106 | 2264 | 49 | 57.56N | 117 54.01E | 50 | 22N | 117 | 37E | 612675 | 24640 | 158 | 36 | 33 | 15 | | | | | | 2.775 |
| 87 | 3 | 36 | 59.361 | 2255 | 49 | 49.05N | 117 59.16E | 50 | 14N | 117 | 43E | 612411 | 24641 | 158 | 41 | 33 | 24 | | | | | | 2.786 |
| 88 | 3 | 37 | 1.617 | 2256 | 49 | 40.54N | 118 4.28E | 50 | 5N | 117 | 48E | 612149 | 24642 | 158 | 46 | 33 | 33 | | | | | | 2.785 |
| 89 | 3 | 37 | 3.877 | 2259 | 49 | 32.00N | 118 9.38E | 49 | 57N | 117 | 53E | 611889 | 24642 | 158 | 51 | 33 | 43 | | | | | | 2.781 |
| 90 | 3 | 37 | 6.132 | 2255 | 49 | 23.48N | 118 14.43E | 49 | 48N | 117 | 58E | 611631 | 24643 | 158 | 55 | 33 | 52 | | | | | | 2.786 |

HANDLE VIA

TAB. GENDET

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|------|--------|--------|-----|------|------|---------|-----|--------|-----|---------|-----|--------|-------|-----|------|-----|-----|------|----------|-------|-----|----|-----|----|-----|----|-------|------|-----|------|
| 91 | 3 37 | 8.382 | | 2258 | 49 | 14.97N | 118 | 19.44E | 49 | 40N 118 | 3E | 611375 | 24643 | 159 | 0 | 34 | 10 | ND | 2.793 | | | | | | | | | | | |
| 92 | 3 37 | 10.637 | | 2255 | 49 | 6.43N | 118 | 24.42E | 49 | 31N 118 | 8E | 611121 | 24644 | 159 | 4 | 34 | 10 | ND | 2.786 | | | | | | | | | | | |
| 93 | 3 37 | 12.892 | | 2255 | 48 | 57.90N | 118 | 29.38E | 49 | 23N 118 | 13E | 610868 | 24645 | 159 | 9 | 34 | 19 | ND | 2.786 | | | | | | | | | | | |
| 94 | 3 37 | 15.146 | | 2255 | 48 | 49.35N | 118 | 34.38E | 49 | 14N 118 | 18E | 610618 | 24645 | 159 | 14 | 34 | 28 | ND | 2.793 | | | | | | | | | | | |
| 95 | 3 37 | 17.396 | | 2250 | 48 | 40.82N | 118 | 39.18E | 49 | 6N 118 | 23E | 610370 | 24646 | 159 | 18 | 34 | 37 | ND | 2.786 | | | | | | | | | | | |
| 96 | 3 37 | 19.651 | | 2255 | 48 | 32.27N | 118 | 44.08E | 48 | 57N 118 | 28E | 610124 | 24646 | 159 | 23 | 34 | 47 | ND | 2.793 | | | | | | | | | | | |
| 97 | 3 37 | 21.901 | | 2250 | 48 | 23.73N | 118 | 48.87E | 48 | 49N 118 | 33E | 609880 | 24647 | 159 | 27 | 34 | 56 | ND | 2.791 | | | | | | | | | | | |
| 98 | 3 37 | 24.152 | | 2251 | 48 | 15.19N | 118 | 53.66E | 48 | 40N 118 | 38E | 609638 | 24648 | 159 | 32 | 35 | 5 | ND | 2.793 | | | | | | | | | | | |
| 99 | 3 37 | 26.402 | | 2250 | 48 | 6.64N | 118 | 58.43E | 48 | 31N 118 | 43E | 609398 | 24648 | 159 | 36 | 35 | 14 | ND | 2.793 | | | | | | | | | | | |
| 0100 | 3 37 | 28.652 | | 2250 | 47 | 58.09N | 119 | 3.16E | 48 | 23N 118 | 48E | 609159 | 24649 | 159 | 40 | 35 | 23 | ND | 2.788 | | | | | | | | | | | |
| 0101 | 3 37 | 30.906 | | 2254 | 47 | 49.52N | 119 | 7.87E | 48 | 14N 118 | 53E | 608922 | 24649 | 159 | 45 | 35 | 32 | ND | 2.804 | | | | | | | | | | | |
| 0102 | 3 37 | 33.147 | | 2241 | 47 | 40.99N | 119 | 12.53E | 48 | 6N 118 | 57E | 608689 | 24650 | 159 | 53 | 35 | 41 | ND | 2.788 | | | | | | | | | | | |
| 0103 | 3 37 | 35.401 | | 2254 | 47 | 32.41N | 119 | 17.18E | 47 | 57N 119 | 2E | 608456 | 24651 | 159 | 57 | 35 | 50 | ND | 2.799 | | | | | | | | | | | |
| 0104 | 3 37 | 37.646 | | 2245 | 47 | 23.86N | 119 | 21.79E | 47 | 48N 119 | 7E | 608226 | 24651 | 160 | 2 | 36 | 9 | ND | 2.793 | | | | | | | | | | | |
| 0105 | 3 37 | 39.896 | | 2250 | 47 | 15.29N | 119 | 26.38E | 47 | 40N 119 | 11E | 607998 | 24651 | 160 | 8 | 36 | 18 | ND | 2.799 | | | | | | | | | | | |
| 0106 | 3 37 | 42.142 | | 2245 | 47 | 6.73N | 119 | 30.94E | 47 | 32N 119 | 16E | 607772 | 24652 | 160 | 6 | 36 | 27 | ND | 2.799 | | | | | | | | | | | |
| 0107 | 3 37 | 44.387 | | 2245 | 46 | 58.17N | 119 | 35.47E | 47 | 23N 119 | 21E | 607548 | 24653 | 160 | 10 | 36 | 27 | ND | 2.793 | | | | | | | | | | | |
| 0108 | 3 37 | 46.637 | | 2250 | 46 | 49.58N | 119 | 39.98E | 47 | 14N 119 | 25E | 607325 | 24653 | 160 | 14 | 36 | 36 | ND | 2.799 | | | | | | | | | | | |
| 0109 | 3 37 | 48.882 | | 2245 | 46 | 41.01N | 119 | 44.45E | 47 | 6N 119 | 30E | 607105 | 24654 | 160 | 18 | 36 | 45 | ND | 2.804 | | | | | | | | | | | |
| 0110 | 3 37 | 51.122 | | 2241 | 46 | 32.45N | 119 | 48.89E | 46 | 57N 119 | 34E | 606887 | 24654 | 160 | 22 | 36 | 54 | ND | 2.794 | | | | | | | | | | | |
| 0111 | 3 37 | 53.371 | | 2249 | 46 | 23.86N | 119 | 53.31E | 46 | 49N 119 | 39E | 606671 | 24655 | 160 | 26 | 37 | 3 | ND | 2.794 | | | | | | | | | | | |
| 0112 | 3 37 | 55.612 | | 2241 | 46 | 15.29N | 119 | 57.70E | 46 | 40N 119 | 43E | 606457 | 24655 | 160 | 30 | 37 | 12 | ND | 2.804 | | | | | | | | | | | |
| 0113 | 3 37 | 57.857 | | 2245 | 46 | 6.71N | 120 | 2.07E | 46 | 32N 119 | 48E | 606246 | 24656 | 160 | 34 | 37 | 21 | ND | 2.799 | | | | | | | | | | | |
| 0114 | 3 38 | 0.106 | | 2249 | 45 | 58.10N | 120 | 6.42E | 46 | 23N 119 | 52E | 606035 | 24656 | 160 | 38 | 37 | 30 | ND | 2.794 | | | | | | | | | | | |
| 0115 | 3 38 | 2.352 | | 2245 | 45 | 49.51N | 120 | 10.74E | 46 | 14N 119 | 57E | 605827 | 24657 | 160 | 42 | 37 | 39 | ND | 2.799 | | | | | | | | | | | |
| 0116 | 3 38 | 4.597 | | 2245 | 45 | 40.91N | 120 | 15.03E | 46 | 6N 120 | 1E | 605621 | 24657 | 160 | 46 | 37 | 49 | ND | 2.799 | | | | | | | | | | | |
| 0117 | 3 38 | 6.842 | | 2245 | 45 | 32.31N | 120 | 19.30E | 45 | 57N 120 | 5E | 605417 | 24658 | 160 | 50 | 37 | 58 | ND | 2.799 | | | | | | | | | | | |
| 0118 | 3 38 | 9.087 | | 2245 | 45 | 23.70N | 120 | 23.55E | 45 | 49N 120 | 10E | 605215 | 24658 | 160 | 53 | 38 | 7 | ND | 2.805 | | | | | | | | | | | |
| 0119 | 3 38 | 11.326 | | 2240 | 45 | 15.11N | 120 | 27.76E | 45 | 40N 120 | 14E | 605016 | 24659 | 160 | 57 | 38 | 16 | ND | 2.805 | | | | | | | | | | | |
| 0120 | 3 38 | 13.571 | | 2245 | 45 | 6.50N | 120 | 31.96E | 45 | 31N 120 | 18E | 604817 | 24659 | 161 | 1 | 38 | 25 | ND | 2.799 | | | | | | | | | | | |
| 0121 | 3 38 | 15.813 | | 2241 | 44 | 57.90N | 120 | 36.12E | 45 | 23N 120 | 22E | 604622 | 24660 | 161 | 5 | 38 | 34 | ND | 2.804 | | | | | | | | | | | |
| 0122 | 3 38 | 18.057 | | 2244 | 44 | 49.28N | 120 | 40.27E | 45 | 14N 120 | 27E | 604429 | 24660 | 161 | 8 | 38 | 43 | ND | 2.800 | | | | | | | | | | | |
| 0123 | 3 38 | 20.292 | | 2236 | 44 | 40.69N | 120 | 44.38E | 45 | 6N 120 | 31E | 604238 | 24660 | 161 | 12 | 38 | 52 | ND | 2.810 | | | | | | | | | | | |
| 0124 | 3 38 | 22.537 | | 2245 | 44 | 32.07N | 120 | 48.48E | 44 | 57N 120 | 35E | 604048 | 24661 | 161 | 16 | 39 | 1 | ND | 2.800 | | | | | | | | | | | |
| 0125 | 3 38 | 24.781 | | 2244 | 44 | 23.44N | 120 | 52.56E | 44 | 48N 120 | 39E | 603860 | 24661 | 161 | 19 | 39 | 10 | ND | 2.804 | | | | | | | | | | | |
| 0126 | 3 38 | 27.022 | | 2241 | 44 | 14.82N | 120 | 56.61E | 44 | 40N 120 | 43E | 603675 | 24662 | 161 | 23 | 39 | 19 | ND | 2.804 | | | | | | | | | | | |
| 0127 | 3 38 | 29.267 | | 2244 | 44 | 6.19N | 121 | 0.64E | 44 | 31N 120 | 47E | 603492 | 24662 | 161 | 27 | 39 | 28 | ND | 2.800 | | | | | | | | | | | |

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TOP SECRET

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|-----|--------|------|--------|-------|--------|--------|--------|--------|-----|------|----------|--------|--------|-------|-----|-----|-----|-------|------|-----|-------|------|
| HR | MI | SEC | MILS | MIN | MIN | MIN | MIN | MIN | MIN | MIN | FEET | FTS | DEG | MI | DEG | MI | DEG | MIN | DEG | MIN | DEG | RATE |
| 1 | 4 | 59 | 11.530 | 73 | 46.54N | 49 | 59.45E | 73 | 59N | 48 | 19E | 696484 | 24444 | 113 | 59 | 2 | 33 | ND | ND | ND | 1.777 | |
| 2 | 4 | 59 | 15.065 | 73 | 40.70N | 50 | 45.45E | 73 | 53N | 49 | 6E | 695644 | 24446 | 114 | 45 | 2 | 47 | ND | ND | ND | 1.777 | |
| 3 | 4 | 59 | 18.021 | 2955 | 73 | 35.68N | 51 | 23.49E | 73 | 49N | 45E | 694944 | 24448 | 115 | 23 | 2 | 59 | ND | ND | ND | 2.126 | |
| 4 | 4 | 59 | 20.811 | 2790 | 73 | 30.84N | 51 | 59.06E | 73 | 44N | 50 | 22E | 694284 | 24449 | 115 | 59 | 3 | 10 | ND | ND | 2.252 | |
| 5 | 4 | 59 | 23.546 | 2735 | 73 | 25.99N | 52 | 33.59E | 73 | 39N | 50 | 58E | 693640 | 24451 | 116 | 33 | 3 | 21 | ND | ND | 2.297 | |
| 6 | 4 | 59 | 26.245 | 2700 | 73 | 21.11N | 53 | 7.33E | 73 | 35N | 51 | 32E | 693004 | 24452 | 117 | 7 | 3 | 32 | ND | ND | 2.327 | |
| 7 | 4 | 59 | 28.931 | 2685 | 73 | 16.16N | 53 | 40.59E | 73 | 30N | 52 | 7E | 692373 | 24454 | 117 | 40 | 3 | 43 | ND | ND | 2.340 | |
| 8 | 4 | 59 | 31.605 | 2675 | 73 | 11.13N | 54 | 13.39E | 73 | 25N | 52 | 40E | 691745 | 24455 | 118 | 12 | 3 | 54 | ND | ND | 2.349 | |
| 9 | 4 | 59 | 34.271 | 2665 | 73 | 6.04N | 54 | 45.74E | 73 | 21N | 53 | 14E | 691122 | 24456 | 118 | 45 | 4 | 5 | ND | ND | 2.358 | |
| 10 | 4 | 59 | 36.931 | 2660 | 73 | 0.87N | 55 | 17.72E | 73 | 16N | 53 | 47E | 690500 | 24458 | 119 | 17 | 4 | 15 | ND | ND | 2.362 | |
| 11 | 4 | 59 | 39.580 | 2650 | 72 | 55.64N | 55 | 49.25E | 73 | 11N | 54 | 19E | 689882 | 24459 | 119 | 48 | 4 | 26 | ND | ND | 2.371 | |
| 12 | 4 | 59 | 42.226 | 2645 | 72 | 50.32N | 56 | 20.41E | 73 | 5N | 54 | 51E | 689266 | 24461 | 120 | 19 | 4 | 37 | ND | ND | 2.375 | |
| 13 | 4 | 59 | 44.865 | 2640 | 72 | 44.94N | 56 | 51.19E | 73 | 0N | 55 | 23E | 688653 | 24462 | 120 | 50 | 4 | 47 | ND | ND | 2.380 | |
| 14 | 4 | 59 | 47.496 | 2631 | 72 | 39.50N | 57 | 21.56E | 72 | 55N | 55 | 54E | 688044 | 24464 | 121 | 20 | 4 | 58 | ND | ND | 2.388 | |
| 15 | 4 | 59 | 50.125 | 2629 | 72 | 33.98N | 57 | 51.59E | 72 | 50N | 56 | 25E | 687436 | 24465 | 121 | 50 | 5 | 9 | ND | ND | 2.390 | |
| 16 | 4 | 59 | 52.750 | 2625 | 72 | 28.39N | 58 | 21.26E | 72 | 44N | 56 | 56E | 686830 | 24466 | 122 | 19 | 5 | 19 | ND | ND | 2.394 | |
| 17 | 4 | 59 | 55.370 | 2620 | 72 | 22.73N | 58 | 50.56E | 72 | 39N | 57 | 26E | 686226 | 24468 | 122 | 49 | 5 | 30 | ND | ND | 2.398 | |
| 18 | 4 | 59 | 57.985 | 2615 | 72 | 17.01N | 59 | 19.51E | 72 | 33N | 57 | 56E | 685626 | 24469 | 123 | 17 | 5 | 40 | ND | ND | 2.403 | |
| 19 | 5 | 0 | 0.596 | 2610 | 72 | 11.23N | 59 | 48.09E | 72 | 28N | 58 | 26E | 685026 | 24471 | 123 | 46 | 5 | 51 | ND | ND | 2.407 | |
| 20 | 5 | 0 | 3.200 | 2605 | 72 | 5.39N | 60 | 16.30E | 72 | 22N | 58 | 55E | 684431 | 24472 | 124 | 14 | 6 | 2 | ND | ND | 2.412 | |
| 21 | 5 | 0 | 5.806 | 2605 | 71 | 59.47N | 60 | 44.23E | 72 | 16N | 59 | 24E | 683836 | 24473 | 124 | 42 | 6 | 12 | ND | ND | 2.412 | |
| 22 | 5 | 0 | 8.405 | 2590 | 71 | 53.50N | 61 | 11.79E | 72 | 11N | 59 | 52E | 683254 | 24475 | 125 | 9 | 6 | 23 | ND | ND | 2.417 | |
| 23 | 5 | 0 | 10.995 | 2590 | 71 | 47.49N | 61 | 38.95E | 72 | 5N | 60 | 20E | 682654 | 24476 | 125 | 36 | 6 | 33 | ND | ND | 2.426 | |
| 24 | 5 | 0 | 13.546 | 36550 | 70 | 15.99N | 67 | 31.82E | 70 | 35N | 66 | 25E | 674482 | 24495 | 131 | 27 | 9 | 1 | ND | ND | 0.172 | |
| 25 | 5 | 0 | 16.041 | 3295 | 70 | 7.19N | 68 | 0.95E | 70 | 27N | 66 | 55E | 673759 | 24497 | 131 | 56 | 9 | 14 | ND | ND | 1.907 | |
| 26 | 5 | 0 | 18.536 | 2795 | 69 | 59.66N | 68 | 25.33E | 70 | 19N | 67 | 21E | 673147 | 24498 | 132 | 21 | 9 | 25 | ND | ND | 2.248 | |
| 27 | 5 | 0 | 21.031 | 2655 | 69 | 52.45N | 68 | 48.20E | 70 | 12N | 67 | 44E | 672567 | 24499 | 132 | 43 | 9 | 36 | ND | ND | 2.367 | |
| 28 | 5 | 0 | 23.526 | 2595 | 69 | 45.35N | 69 | 10.32E | 70 | 5N | 68 | 7E | 672001 | 24501 | 133 | 5 | 9 | 47 | ND | ND | 2.421 | |
| 29 | 5 | 1 | 1.455 | 2570 | 69 | 38.28N | 69 | 31.96E | 69 | 58N | 68 | 30E | 671443 | 24502 | 133 | 27 | 9 | 57 | ND | ND | 2.445 | |
| 30 | 5 | 1 | 4.011 | 2555 | 69 | 31.20N | 69 | 53.24E | 69 | 51N | 68 | 52E | 670889 | 24503 | 133 | 48 | 10 | 7 | ND | ND | 2.474 | |
| 31 | 5 | 1 | 6.551 | 2540 | 69 | 24.01N | 70 | 14.15E | 69 | 44N | 69 | 13E | 670341 | 24505 | 134 | 4 | 10 | 18 | ND | ND | 2.474 | |
| 32 | 5 | 1 | 9.081 | 2531 | 69 | 17.01N | 70 | 34.75E | 69 | 37N | 69 | 35E | 669795 | 24506 | 134 | 29 | 10 | 28 | ND | ND | 2.482 | |
| 33 | 5 | 1 | 11.610 | 2529 | 69 | 9.87N | 70 | 55.11E | 69 | 30N | 69 | 56E | 669251 | 24507 | 134 | 49 | 10 | 38 | ND | ND | 2.484 | |
| 34 | 5 | 1 | 14.136 | 2525 | 69 | 2.70N | 71 | 15.21E | 69 | 23N | 70 | 16E | 668709 | 24508 | 135 | 9 | 10 | 48 | ND | ND | 2.488 | |
| 35 | 5 | 1 | 16.655 | 2520 | 68 | 55.50N | 71 | 35.05E | 69 | 16N | 70 | 37E | 668170 | 24510 | 135 | 29 | 10 | 58 | ND | ND | 2.493 | |
| 36 | 5 | 1 | 19.171 | 2515 | 68 | 48.27N | 71 | 54.63E | 69 | 9N | 70 | 57E | 667633 | 24511 | 135 | 48 | 11 | 9 | ND | ND | 2.498 | |
| 37 | 5 | 1 | 21.681 | 2510 | 68 | 41.02N | 72 | 13.95E | 69 | 2N | 71 | 17E | 667099 | 24512 | 136 | 8 | 11 | 19 | ND | ND | 2.503 | |
| 38 | 5 | 1 | 24.187 | 2504 | 68 | 33.74N | 72 | 33.02E | 68 | 55N | 71 | 37E | 666567 | 24513 | 136 | 27 | 11 | 29 | ND | ND | 2.507 | |
| 39 | 5 | 1 | 26.690 | 2500 | 68 | 26.43N | 72 | 51.88E | 68 | 48N | 71 | 56E | 666036 | 24515 | 136 | 45 | 11 | 39 | ND | ND | 2.509 | |
| 40 | 5 | 1 | 29.190 | 2500 | 68 | 19.09N | 73 | 10.49E | 68 | 40N | 72 | 16E | 665509 | 24516 | 137 | 4 | 11 | 49 | ND | ND | 2.513 | |
| 41 | 5 | 1 | 31.686 | 2495 | 68 | 11.73N | 73 | 28.86E | 68 | 33N | 72 | 35E | 664983 | 24517 | 137 | 22 | 11 | 59 | ND | ND | 2.518 | |
| 42 | 5 | 1 | 34.181 | 2495 | 68 | 4.33N | 73 | 47.03E | 68 | 26N | 72 | 53E | 664459 | 24518 | 137 | 40 | 12 | 9 | ND | ND | 2.518 | |
| 43 | 5 | 1 | 36.671 | 2490 | 67 | 56.91N | 74 | 4.97E | 68 | 18N | 73 | 12E | 663937 | 24520 | 137 | 58 | 12 | 19 | ND | ND | 2.523 | |
| 44 | 5 | 1 | 39.155 | 2485 | 67 | 49.48N | 74 | 22.67E | 68 | 11N | 73 | 30E | 663418 | 24521 | 138 | 15 | 12 | 29 | ND | ND | 2.528 | |
| 45 | 5 | 1 | 41.636 | 2480 | 67 | 42.02N | 74 | 40.15E | 68 | 4N | 73 | 48E | 662901 | 24522 | 138 | 33 | 12 | 40 | ND | ND | 2.534 | |

TOR SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
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| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | AZIMUTH | SUNV | PITCH | ROLL | YAW | SCAN | |
|-----|----|----|--------|-------|-----|--------|-----|--------|-----|-----|-----|------|----------|-------|---------|------|-------|------|-----|------|-------|
| | | | | MILS | | MIN | | MIN | | MIN | | MIN | FEET | F/S | DEG | MI | DEG | MIN | DEG | MIN | RATE |
| 46 | 5 | 1 | 44.128 | 2485 | 67 | 34.51N | 74 | 57.47E | 67 | 56N | 74 | 6E | 662384 | 24523 | 138 | 50 | 12 | 50 | ND | ND | 2.528 |
| 47 | 5 | 1 | 46.597 | 2476 | 67 | 27.00N | 75 | 14.54E | 67 | 49N | 74 | 24E | 661871 | 24524 | 139 | 7 | 13 | 0 | ND | ND | 2.538 |
| 48 | 5 | 1 | 49.070 | 2474 | 67 | 19.47N | 75 | 31.41E | 67 | 41N | 74 | 41E | 661360 | 24526 | 139 | 23 | 13 | 10 | ND | ND | 2.540 |
| 49 | 5 | 1 | 51.548 | 2470 | 67 | 11.91N | 75 | 48.08E | 67 | 34N | 74 | 59E | 660851 | 24527 | 139 | 40 | 13 | 30 | ND | ND | 2.544 |
| 50 | 5 | 1 | 54.011 | 2470 | 67 | 4.32N | 76 | 4.52E | 67 | 26N | 75 | 32E | 659833 | 24529 | 140 | 12 | 13 | 40 | ND | ND | 2.544 |
| 51 | 5 | 1 | 56.472 | 2461 | 66 | 56.73N | 76 | 20.82E | 67 | 19N | 75 | 36E | 659833 | 24529 | 140 | 12 | 13 | 50 | ND | ND | 2.553 |
| 52 | 5 | 1 | 58.936 | 2464 | 66 | 49.10N | 76 | 36.91E | 67 | 11N | 75 | 49E | 659336 | 24530 | 140 | 28 | 13 | 50 | ND | ND | 2.559 |
| 53 | 5 | 2 | 1.391 | 2455 | 66 | 41.47N | 76 | 52.78E | 67 | 4N | 76 | 5E | 658835 | 24531 | 140 | 44 | 13 | 59 | ND | ND | 2.554 |
| 54 | 5 | 2 | 3.851 | 2460 | 66 | 33.79N | 77 | 8.50E | 66 | 56N | 76 | 22E | 658336 | 24533 | 141 | 0 | 14 | 9 | ND | ND | 2.554 |
| 55 | 5 | 2 | 6.306 | 2455 | 66 | 26.10N | 77 | 24.04E | 66 | 48N | 76 | 38E | 657838 | 24534 | 141 | 15 | 14 | 19 | ND | ND | 2.570 |
| 56 | 5 | 2 | 8.750 | 2445 | 66 | 18.42N | 77 | 39.34E | 66 | 41N | 76 | 54E | 657344 | 24535 | 141 | 30 | 14 | 29 | ND | ND | 2.570 |
| 57 | 5 | 2 | 10.726 | 21975 | 59 | 27.56N | 87 | 35.67E | 59 | 52N | 87 | 8E | 634687 | 24588 | 151 | 16 | 22 | 43 | ND | ND | 2.082 |
| 58 | 5 | 4 | 13.860 | 3135 | 59 | 16.46N | 87 | 47.55E | 59 | 41N | 87 | 20E | 634160 | 24590 | 151 | 38 | 22 | 56 | ND | ND | 2.398 |
| 59 | 5 | 4 | 16.480 | 2620 | 59 | 7.16N | 87 | 57.37E | 59 | 31N | 87 | 30E | 633721 | 24590 | 151 | 38 | 22 | 56 | ND | ND | 2.544 |
| 60 | 5 | 4 | 18.950 | 2470 | 58 | 58.38N | 88 | 6.54E | 59 | 23N | 87 | 40E | 633310 | 24591 | 151 | 47 | 23 | 17 | ND | ND | 2.544 |
| 61 | 5 | 4 | 21.360 | 2410 | 58 | 49.80N | 88 | 15.42E | 59 | 14N | 87 | 49E | 632910 | 24592 | 151 | 55 | 23 | 27 | ND | ND | 2.607 |
| 62 | 5 | 4 | 23.740 | 2380 | 58 | 41.32N | 88 | 24.10E | 59 | 6N | 87 | 58E | 632518 | 24593 | 152 | 4 | 23 | 36 | ND | ND | 2.661 |
| 63 | 5 | 4 | 26.102 | 2361 | 58 | 32.89N | 88 | 32.65E | 58 | 57N | 88 | 6E | 632130 | 24594 | 152 | 12 | 23 | 46 | ND | ND | 2.661 |
| 64 | 5 | 4 | 28.455 | 2354 | 58 | 24.47N | 88 | 41.09E | 58 | 49N | 88 | 15E | 631744 | 24595 | 152 | 20 | 23 | 55 | ND | ND | 2.669 |
| 65 | 5 | 4 | 30.801 | 2345 | 58 | 16.08N | 88 | 49.43E | 58 | 40N | 88 | 24E | 631362 | 24596 | 152 | 28 | 24 | 4 | ND | ND | 2.679 |
| 66 | 5 | 4 | 33.136 | 2335 | 58 | 7.71N | 88 | 57.67E | 58 | 32N | 88 | 32E | 630984 | 24597 | 152 | 36 | 24 | 14 | ND | ND | 2.691 |
| 67 | 5 | 4 | 35.471 | 2335 | 57 | 59.33N | 89 | 5.84E | 58 | 24N | 88 | 41E | 630607 | 24598 | 152 | 44 | 24 | 24 | ND | ND | 2.691 |
| 68 | 5 | 4 | 37.801 | 2330 | 57 | 50.96N | 89 | 13.92E | 58 | 15N | 88 | 49E | 630232 | 24598 | 152 | 52 | 24 | 33 | ND | ND | 2.697 |
| 69 | 5 | 4 | 40.131 | 2326 | 57 | 42.58N | 89 | 21.94E | 58 | 7N | 88 | 57E | 629859 | 24599 | 153 | 0 | 24 | 43 | ND | ND | 2.697 |
| 70 | 5 | 4 | 42.456 | 2324 | 57 | 34.21N | 89 | 29.87E | 57 | 59N | 89 | 5E | 629489 | 24600 | 153 | 7 | 24 | 52 | ND | ND | 2.701 |
| 71 | 5 | 4 | 44.780 | 2324 | 57 | 25.83N | 89 | 37.74E | 57 | 50N | 89 | 13E | 629120 | 24601 | 153 | 15 | 25 | 2 | ND | ND | 2.708 |
| 72 | 5 | 4 | 47.101 | 2320 | 57 | 17.45N | 89 | 45.53E | 57 | 42N | 89 | 21E | 628754 | 24602 | 153 | 23 | 25 | 11 | ND | ND | 2.714 |
| 73 | 5 | 4 | 49.415 | 2315 | 57 | 9.09N | 89 | 53.24E | 57 | 34N | 89 | 29E | 628391 | 24603 | 153 | 30 | 25 | 20 | ND | ND | 2.715 |
| 74 | 5 | 4 | 51.731 | 2316 | 57 | 0.71N | 90 | 0.84E | 57 | 25N | 89 | 37E | 628028 | 24604 | 153 | 37 | 25 | 30 | ND | ND | 2.715 |
| 75 | 5 | 4 | 54.046 | 2314 | 56 | 52.33N | 90 | 8.48E | 57 | 17N | 89 | 45E | 627669 | 24604 | 153 | 45 | 25 | 39 | ND | ND | 2.715 |
| 76 | 5 | 4 | 56.355 | 2310 | 56 | 43.95N | 90 | 15.99E | 57 | 8N | 89 | 52E | 627311 | 24605 | 153 | 52 | 25 | 49 | ND | ND | 2.720 |
| 77 | 5 | 4 | 58.665 | 2310 | 56 | 35.57N | 90 | 23.44E | 57 | 0N | 90 | 0E | 626955 | 24606 | 153 | 59 | 25 | 58 | ND | ND | 2.720 |
| 78 | 5 | 5 | 0.976 | 2310 | 56 | 27.17N | 90 | 30.83E | 56 | 52N | 90 | 8E | 626601 | 24607 | 154 | 6 | 26 | 7 | ND | ND | 2.726 |
| 79 | 5 | 5 | 3.280 | 2305 | 56 | 18.79N | 90 | 38.15E | 56 | 43N | 90 | 15E | 626249 | 24608 | 154 | 13 | 26 | 17 | ND | ND | 2.726 |
| 80 | 5 | 5 | 5.585 | 2305 | 56 | 10.40N | 90 | 45.40E | 56 | 35N | 90 | 23E | 625899 | 24609 | 154 | 20 | 26 | 26 | ND | ND | 2.726 |
| 81 | 5 | 5 | 7.891 | 2305 | 56 | 1.99N | 90 | 52.61E | 56 | 27N | 90 | 30E | 625550 | 24609 | 154 | 27 | 26 | 35 | ND | ND | 2.732 |
| 82 | 5 | 5 | 10.190 | 2300 | 55 | 53.60N | 90 | 59.74E | 56 | 18N | 90 | 37E | 625204 | 24610 | 154 | 34 | 26 | 45 | ND | ND | 2.732 |
| 83 | 5 | 5 | 12.485 | 2295 | 55 | 45.22N | 91 | 6.80E | 56 | 10N | 90 | 45E | 624861 | 24611 | 154 | 41 | 26 | 54 | ND | ND | 2.738 |
| 84 | 5 | 5 | 14.780 | 2295 | 55 | 36.83N | 91 | 13.81E | 56 | 1N | 90 | 52E | 624520 | 24612 | 154 | 48 | 27 | 3 | ND | ND | 2.738 |
| 85 | 5 | 5 | 17.075 | 2295 | 55 | 28.43N | 91 | 20.77E | 55 | 53N | 90 | 59E | 624179 | 24613 | 154 | 54 | 27 | 13 | ND | ND | 2.738 |
| 86 | 5 | 5 | 19.370 | 2295 | 55 | 20.02N | 91 | 27.67E | 55 | 45N | 91 | 6E | 623842 | 24614 | 155 | 1 | 27 | 22 | ND | ND | 2.738 |
| 87 | 5 | 5 | 21.660 | 2290 | 55 | 11.63N | 91 | 34.50E | 55 | 36N | 91 | 13E | 623506 | 24614 | 155 | 8 | 27 | 31 | ND | ND | 2.744 |
| 88 | 5 | 5 | 23.950 | 2290 | 55 | 3.22N | 91 | 41.29E | 55 | 28N | 91 | 20E | 623172 | 24615 | 155 | 14 | 27 | 40 | ND | ND | 2.744 |
| 89 | 5 | 5 | 26.235 | 2285 | 54 | 54.83N | 91 | 48.08E | 55 | 19N | 91 | 27E | 622840 | 24616 | 155 | 20 | 27 | 50 | ND | ND | 2.750 |
| 90 | 5 | 5 | 28.525 | 2290 | 54 | 46.41N | 91 | 54.68E | 55 | 11N | 91 | 34E | 622510 | 24617 | 155 | 27 | 27 | 59 | ND | ND | 2.744 |

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE
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TALENT-KEYHOLE
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| FRM | Z TIME | DTIM | DEG MIN | DEG LONG | DEG MIN | DEG LONG | ALTITUDE FEET | VELOC F/S | DEG AZIMUTH | DEG SUN/MI | PITCH DEG MIN | ROLL DEG MIN | YAW DEG MIN | SCAN RATE |
|------|-------------|-------|-----------|------------|---------|----------|---------------|-----------|-------------|------------|---------------|--------------|-------------|-----------|
| 91 | 5 5 30.806 | 2280 | 54 38.02N | 92 1.29E | 55 3N | 91 40E | 622183 | 24617 | 155 33 | 28 8 | ND | ND | ND | 2.756 |
| 92 | 5 5 33.091 | 2285 | 54 29.60N | 92 7.86E | 54 54N | 91 47E | 621856 | 24618 | 155 39 | 28 18 | ND | ND | ND | 2.750 |
| 93 | 5 5 35.375 | 2285 | 54 21.18N | 92 14.37E | 54 46N | 91 54E | 621532 | 24619 | 155 46 | 28 27 | ND | ND | ND | 2.750 |
| 94 | 5 5 37.650 | 2275 | 54 12.78N | 92 20.82E | 54 37N | 92 0E | 621210 | 24620 | 155 52 | 28 36 | ND | ND | ND | 2.762 |
| 95 | 5 11 46.585 | 68935 | 30 32.94N | 103 21.52E | 30 58N | 103 12E | 596028 | 24681 | 165 33 | 53 28 | ND | ND | ND | 0.017 |
| 96 | 5 11 49.626 | 3044 | 30 20.95N | 103 25.08E | 30 46N | 103 16E | 596069 | 24681 | 165 36 | 53 40 | ND | ND | ND | 2.066 |
| 97 | 5 11 52.131 | 2504 | 30 11.07N | 103 28.00E | 30 36N | 103 19E | 596107 | 24681 | 165 38 | 53 50 | ND | ND | ND | 2.509 |
| 98 | 5 11 54.485 | 2355 | 30 1.78N | 103 30.73E | 30 27N | 103 22E | 596145 | 24681 | 165 40 | 53 59 | ND | ND | ND | 2.738 |
| 99 | 5 11 56.780 | 2295 | 29 52.73N | 103 33.39E | 30 18N | 103 24E | 596185 | 24681 | 165 42 | 54 9 | ND | ND | ND | 2.668 |
| 0100 | 5 11 59.061 | 2280 | 29 43.73N | 103 36.01E | 30 9N | 103 27E | 596227 | 24680 | 165 44 | 54 18 | ND | ND | ND | 2.756 |
| 0101 | 5 12 1.330 | 2270 | 29 34.77N | 103 38.62E | 30 0N | 103 30E | 596271 | 24680 | 165 46 | 54 27 | ND | ND | ND | 2.768 |
| 0102 | 5 12 3.596 | 2265 | 29 25.83N | 103 41.21E | 29 51N | 103 32E | 596318 | 24680 | 165 48 | 54 36 | ND | ND | ND | 2.774 |
| 0103 | 5 12 5.855 | 2260 | 29 16.91N | 103 43.79E | 29 42N | 103 35E | 596367 | 24680 | 165 49 | 54 45 | ND | ND | ND | 2.780 |
| 0104 | 5 12 8.110 | 2255 | 29 8.00N | 103 46.35E | 29 33N | 103 38E | 596418 | 24680 | 165 51 | 54 54 | ND | ND | ND | 2.786 |
| 0105 | 5 12 10.370 | 2260 | 28 59.08N | 103 48.90E | 29 24N | 103 40E | 596472 | 24680 | 165 53 | 55 3 | ND | ND | ND | 2.780 |
| 0106 | 5 12 12.625 | 2255 | 28 50.18N | 103 51.45E | 29 15N | 103 43E | 596528 | 24680 | 165 55 | 55 12 | ND | ND | ND | 2.786 |
| 0107 | 5 12 14.881 | 2255 | 28 41.26N | 103 53.98E | 29 6N | 103 45E | 596587 | 24680 | 165 56 | 55 21 | ND | ND | ND | 2.793 |
| 0108 | 5 12 17.131 | 2250 | 28 32.38N | 103 56.50E | 28 58N | 103 48E | 596648 | 24680 | 165 58 | 55 30 | ND | ND | ND | 2.786 |
| 0109 | 5 12 19.386 | 2255 | 28 23.47N | 103 59.02E | 28 49N | 103 50E | 596712 | 24679 | 166 0 | 55 39 | ND | ND | ND | 2.786 |
| 0110 | 5 12 21.636 | 2250 | 28 14.58N | 104 1.52E | 28 40N | 103 53E | 596778 | 24679 | 166 2 | 55 48 | ND | ND | ND | 2.793 |
| 0111 | 5 12 23.891 | 2255 | 28 5.66N | 104 4.02E | 28 31N | 103 55E | 596847 | 24679 | 166 3 | 55 57 | ND | ND | ND | 2.793 |
| 0112 | 5 12 26.141 | 2250 | 27 56.77N | 104 6.51E | 28 22N | 103 58E | 596918 | 24679 | 166 5 | 56 6 | ND | ND | ND | 2.793 |
| 0113 | 5 12 28.392 | 2251 | 27 47.87N | 104 8.98E | 28 13N | 104 0E | 596991 | 24679 | 166 7 | 56 15 | ND | ND | ND | 2.794 |
| 0114 | 5 12 30.641 | 2249 | 27 38.98N | 104 11.45E | 28 4N | 104 3E | 597067 | 24679 | 166 8 | 56 24 | ND | ND | ND | 2.793 |
| 0115 | 5 12 32.891 | 2250 | 27 30.08N | 104 13.91E | 27 55N | 104 5E | 597146 | 24679 | 166 10 | 56 33 | ND | ND | ND | 2.793 |
| 0116 | 5 12 35.141 | 2250 | 27 21.18N | 104 16.37E | 27 46N | 104 8E | 597227 | 24678 | 166 12 | 56 42 | ND | ND | ND | 2.786 |
| 0117 | 5 12 37.396 | 2255 | 27 12.26N | 104 18.82E | 27 37N | 104 10E | 597310 | 24678 | 166 13 | 56 51 | ND | ND | ND | 2.794 |
| 0118 | 5 12 39.642 | 2246 | 27 3.38N | 104 21.25E | 27 29N | 104 13E | 597396 | 24678 | 166 15 | 57 0 | ND | ND | ND | 2.794 |
| 0119 | 5 12 41.891 | 2249 | 26 54.48N | 104 23.68E | 27 20N | 104 15E | 597484 | 24678 | 166 17 | 57 9 | ND | ND | ND | 2.793 |
| 0120 | 5 12 44.141 | 2250 | 26 45.58N | 104 26.10E | 27 11N | 104 18E | 597574 | 24678 | 166 18 | 57 18 | ND | ND | ND | 2.799 |
| 0121 | 5 12 46.386 | 2245 | 26 36.69N | 104 28.51E | 27 2N | 104 20E | 597668 | 24677 | 166 20 | 57 27 | ND | ND | ND | 2.793 |
| 0122 | 5 12 48.636 | 2250 | 26 27.78N | 104 30.91E | 26 53N | 104 22E | 597763 | 24677 | 166 21 | 57 36 | ND | ND | ND | 2.793 |
| 0123 | 5 12 50.886 | 2250 | 26 18.88N | 104 33.31E | 26 44N | 104 25E | 597862 | 24677 | 166 23 | 57 45 | ND | ND | ND | 2.793 |
| 0124 | 5 12 53.131 | 2245 | 26 9.99N | 104 35.69E | 26 35N | 104 27E | 597962 | 24677 | 166 25 | 57 53 | ND | ND | ND | 2.799 |
| 0125 | 5 12 55.381 | 2250 | 26 1.08N | 104 38.08E | 26 26N | 104 30E | 598065 | 24677 | 166 26 | 58 2 | ND | ND | ND | 2.793 |
| 0126 | 5 12 57.631 | 2250 | 25 52.17N | 104 40.45E | 26 17N | 104 32E | 598171 | 24676 | 166 28 | 58 11 | ND | ND | ND | 2.793 |
| 0127 | 5 12 59.875 | 2245 | 25 43.28N | 104 42.81E | 26 9N | 104 34E | 598279 | 24676 | 166 29 | 58 20 | ND | ND | ND | 2.799 |
| 0128 | 5 13 2.120 | 2245 | 25 34.39N | 104 45.17E | 26 0N | 104 37E | 598390 | 24676 | 166 31 | 58 29 | ND | ND | ND | 2.799 |
| 0129 | 5 13 4.370 | 2250 | 25 25.48N | 104 47.52E | 25 51N | 104 39E | 598503 | 24676 | 166 32 | 58 38 | ND | ND | ND | 2.793 |
| 0130 | 5 13 6.615 | 2245 | 25 16.58N | 104 49.86E | 25 42N | 104 42E | 598618 | 24675 | 166 34 | 58 47 | ND | ND | ND | 2.799 |
| 0131 | 5 13 8.860 | 2245 | 25 7.69N | 104 52.20E | 25 33N | 104 44E | 598736 | 24675 | 166 35 | 58 56 | ND | ND | ND | 2.799 |
| 0132 | 5 13 11.107 | 2247 | 24 58.78N | 104 54.53E | 25 24N | 104 46E | 598857 | 24675 | 166 37 | 59 5 | ND | ND | ND | 2.796 |
| 0133 | 5 13 13.355 | 2248 | 24 49.87N | 104 56.85E | 25 15N | 104 49E | 598981 | 24674 | 166 38 | 59 14 | ND | ND | ND | 2.795 |
| 0134 | 5 13 15.601 | 2245 | 24 40.98N | 104 59.16E | 25 6N | 104 51E | 599106 | 24674 | 166 39 | 59 23 | ND | ND | ND | 2.799 |
| 0135 | 5 13 17.851 | 2250 | 24 32.06N | 105 1.48E | 24 57N | 104 53E | 599234 | 24674 | 166 41 | 59 32 | ND | ND | ND | 2.793 |

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TOP SECRET

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| FRM | HR | MI | SEC | DTIM | CAMERA NADIR | | | FORMAT CENTER | | | ALTITUDE VELOC | | | AZIMUTH SUN/ | | | PITCH | ROLL | YAW | SCAN | | | | | |
|-----|----|----|--------|------|--------------|--------|-----|---------------|-----|-----|----------------|-----|--------|--------------|-----|----|-------|------|-----|------|-----|-----|-----|-------|------|
| | | | | MINS | DEG | MIN | DEG | MIN | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MI | DEG | MI | DEG | MIN | DEG | MIN | RATE |
| 136 | 5 | 13 | 20.896 | 2245 | 24 | 23.16N | 105 | 3.78E | 24 | 49N | 104 | 56E | 599365 | 24674 | 166 | 42 | 59 | 40 | ND | ND | ND | ND | ND | 2.799 | |
| 137 | 5 | 13 | 22.341 | 2245 | 24 | 14.26N | 105 | 6.07E | 24 | 40N | 104 | 58E | 599498 | 24673 | 166 | 44 | 59 | 49 | ND | ND | ND | ND | ND | 2.799 | |
| 138 | 5 | 13 | 24.591 | 2250 | 24 | 5.33N | 105 | 8.36E | 24 | 31N | 105 | 0E | 599633 | 24673 | 166 | 45 | 59 | 58 | ND | ND | ND | ND | ND | 2.793 | |
| 139 | 5 | 13 | 26.835 | 2245 | 23 | 56.43N | 105 | 10.64E | 24 | 22N | 105 | 3E | 599771 | 24673 | 166 | 47 | 60 | 7 | ND | ND | ND | ND | ND | 2.799 | |
| 140 | 5 | 13 | 29.080 | 2245 | 23 | 47.53N | 105 | 12.91E | 24 | 13N | 105 | 5E | 599912 | 24672 | 166 | 48 | 60 | 16 | ND | ND | ND | ND | ND | 2.799 | |
| 141 | 5 | 13 | 31.330 | 2250 | 23 | 38.61N | 105 | 15.18E | 24 | 4N | 105 | 7E | 600055 | 24672 | 166 | 49 | 60 | 25 | ND | ND | ND | ND | ND | 2.793 | |
| 142 | 5 | 13 | 33.575 | 2245 | 23 | 29.70N | 105 | 17.44E | 23 | 55N | 105 | 9E | 600200 | 24672 | 166 | 51 | 60 | 34 | ND | ND | ND | ND | ND | 2.799 | |
| 143 | 5 | 13 | 35.820 | 2245 | 23 | 20.79N | 105 | 19.70E | 23 | 46N | 105 | 12E | 600348 | 24671 | 166 | 52 | 60 | 43 | ND | ND | ND | ND | ND | 2.799 | |
| 144 | 5 | 13 | 38.070 | 2250 | 23 | 11.87N | 105 | 21.95E | 23 | 37N | 105 | 14E | 600500 | 24671 | 166 | 53 | 60 | 52 | ND | ND | ND | ND | ND | 2.793 | |
| 145 | 5 | 13 | 40.331 | 2261 | 23 | 2.90N | 105 | 24.21E | 23 | 28N | 105 | 16E | 600654 | 24671 | 166 | 55 | 61 | 0 | ND | ND | ND | ND | ND | 2.779 | |

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 134D AFT 6MAR65

FRAME EPHEMERIS MISSION 1017-2

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| FRM | 2 TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|-------------|------|-----------|-----------|---------|---------|----------|-------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILS | DEG MIN | DEG MIN | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 1 | 6 32 18.694 | 0 | 65 11.03N | 57 5.38E | 65 34N | 56 24E | 652488 | 24546 | 143 34 | 15 52 | ND | ND | ND | 1.906 |
| 2 | 6 32 21.990 | 3296 | 65 0.33N | 57 24.00E | 65 23N | 56 43E | 651845 | 24547 | 143 32 | 16 5 | ND | ND | ND | 1.906 |
| 3 | 6 32 24.715 | 2724 | 64 51.45N | 57 39.20E | 65 14N | 56 59E | 651315 | 24549 | 144 7 | 16 17 | ND | ND | ND | 2.307 |
| 4 | 6 32 27.279 | 2565 | 64 43.07N | 57 53.36E | 65 6N | 57 13E | 650819 | 24550 | 144 21 | 16 27 | ND | ND | ND | 2.450 |
| 5 | 6 32 29.779 | 2500 | 64 34.88N | 58 7.01E | 64 58N | 57 27E | 650336 | 24551 | 144 35 | 16 37 | ND | ND | ND | 2.513 |
| 6 | 6 32 32.249 | 2470 | 64 26.76N | 58 20.35E | 64 50N | 57 41E | 649861 | 24552 | 144 48 | 16 47 | ND | ND | ND | 2.559 |
| 7 | 6 32 34.704 | 2455 | 64 18.67N | 58 33.48E | 64 42N | 57 55E | 649390 | 24553 | 145 1 | 16 57 | ND | ND | ND | 2.570 |
| 8 | 6 32 37.149 | 2445 | 64 10.59N | 58 46.43E | 64 34N | 58 8E | 648923 | 24554 | 145 14 | 17 7 | ND | ND | ND | 2.580 |
| 9 | 6 32 39.584 | 2435 | 64 2.53N | 58 59.18E | 64 26N | 58 21E | 648459 | 24555 | 145 26 | 17 17 | ND | ND | ND | 2.586 |
| 10 | 6 32 42.015 | 2430 | 63 54.45N | 59 11.79E | 64 18N | 58 34E | 647998 | 24556 | 145 39 | 17 27 | ND | ND | ND | 2.596 |
| 11 | 6 32 44.435 | 2420 | 63 46.39N | 59 24.23E | 64 10N | 58 47E | 647540 | 24558 | 145 51 | 17 36 | ND | ND | ND | 2.596 |
| 12 | 6 32 46.854 | 2420 | 63 38.32N | 59 36.53E | 64 2N | 59 0E | 647084 | 24559 | 146 3 | 17 46 | ND | ND | ND | 2.596 |
| 13 | 6 32 49.270 | 2415 | 63 30.24N | 59 48.69E | 63 54N | 59 12E | 646629 | 24560 | 146 15 | 17 56 | ND | ND | ND | 2.602 |
| 14 | 6 32 51.681 | 2411 | 63 22.15N | 60 0.72E | 63 46N | 59 24E | 646178 | 24561 | 146 27 | 18 6 | ND | ND | ND | 2.608 |
| 15 | 6 32 54.090 | 2409 | 63 14.05N | 60 12.61E | 63 38N | 59 37E | 645728 | 24562 | 146 38 | 18 16 | ND | ND | ND | 2.608 |
| 16 | 6 32 56.494 | 2405 | 63 5.95N | 60 24.37E | 63 29N | 59 49E | 645281 | 24563 | 146 50 | 18 25 | ND | ND | ND | 2.613 |
| 17 | 6 32 58.899 | 2405 | 62 57.82N | 60 36.02E | 63 21N | 60 1E | 644836 | 24564 | 147 1 | 18 35 | ND | ND | ND | 2.623 |
| 18 | 6 33 1.294 | 2395 | 62 49.72N | 60 47.50E | 63 13N | 60 13E | 644393 | 24565 | 147 13 | 18 45 | ND | ND | ND | 2.623 |
| 19 | 6 33 3.689 | 2395 | 62 41.59N | 60 58.88E | 63 5N | 60 24E | 643952 | 24566 | 147 24 | 18 55 | ND | ND | ND | 2.623 |
| 20 | 6 33 6.084 | 2395 | 62 33.45N | 61 10.15E | 62 57N | 60 36E | 643513 | 24567 | 147 35 | 19 4 | ND | ND | ND | 2.623 |
| 21 | 6 33 8.470 | 2385 | 62 25.33N | 61 21.26E | 62 49N | 60 47E | 643077 | 24568 | 147 46 | 19 14 | ND | ND | ND | 2.634 |
| 22 | 6 33 10.859 | 2390 | 62 17.17N | 61 32.29E | 62 41N | 60 59E | 642643 | 24569 | 147 57 | 19 24 | ND | ND | ND | 2.620 |
| 23 | 6 33 13.244 | 2385 | 62 9.01N | 61 43.20E | 62 33N | 61 10E | 642210 | 24570 | 148 7 | 19 33 | ND | ND | ND | 2.634 |
| 24 | 6 33 15.630 | 2385 | 62 0.84N | 61 54.00E | 62 25N | 61 21E | 641778 | 24571 | 148 18 | 19 43 | ND | ND | ND | 2.634 |
| 25 | 6 33 18.005 | 2375 | 61 52.68N | 62 4.66E | 62 16N | 61 32E | 641351 | 24572 | 148 28 | 19 53 | ND | ND | ND | 2.646 |
| 26 | 6 33 20.380 | 2375 | 61 44.51N | 62 15.22E | 62 8N | 61 43E | 640925 | 24573 | 148 39 | 20 2 | ND | ND | ND | 2.646 |
| 27 | 6 33 22.755 | 2375 | 61 36.32N | 62 25.68E | 62 0N | 61 54E | 640500 | 24574 | 148 49 | 20 12 | ND | ND | ND | 2.646 |
| 28 | 6 33 25.130 | 2375 | 61 28.14N | 62 36.14E | 62 0N | 61 65E | 640075 | 24575 | 148 59 | 20 22 | ND | ND | ND | 2.646 |
| 29 | 6 33 27.505 | 2375 | 61 20.00N | 62 46.60E | 62 0N | 61 76E | 639650 | 24576 | 148 69 | 20 32 | ND | ND | ND | 2.646 |
| 30 | 6 33 29.880 | 2375 | 61 11.86N | 62 57.06E | 62 0N | 61 87E | 639225 | 24577 | 148 79 | 20 42 | ND | ND | ND | 2.646 |
| 31 | 6 33 34.114 | 2375 | 61 3.72N | 63 07.52E | 62 0N | 61 98E | 638800 | 24578 | 148 89 | 20 52 | ND | ND | ND | 2.646 |
| 32 | 6 33 38.348 | 2375 | 60 55.59N | 63 17.98E | 62 0N | 61 109E | 638375 | 24579 | 148 99 | 21 02 | ND | ND | ND | 2.646 |
| 33 | 6 33 42.582 | 2375 | 60 47.46N | 63 28.44E | 62 0N | 61 120E | 637950 | 24580 | 148 109 | 21 12 | ND | ND | ND | 2.646 |
| 34 | 6 33 46.816 | 2375 | 60 39.34N | 63 38.90E | 62 0N | 61 131E | 637525 | 24581 | 148 119 | 21 22 | ND | ND | ND | 2.646 |
| 35 | 6 33 51.050 | 2375 | 60 31.22N | 63 49.36E | 62 0N | 61 142E | 637100 | 24582 | 148 129 | 21 32 | ND | ND | ND | 2.646 |
| 36 | 6 33 55.284 | 2375 | 60 23.10N | 63 59.82E | 62 0N | 61 153E | 636675 | 24583 | 148 139 | 21 42 | ND | ND | ND | 2.646 |
| 37 | 6 33 59.518 | 2375 | 60 15.00N | 64 10.28E | 62 0N | 61 164E | 636250 | 24584 | 148 149 | 21 52 | ND | ND | ND | 2.646 |
| 38 | 6 34 0.752 | 2375 | 60 6.88N | 64 20.74E | 62 0N | 61 175E | 635825 | 24585 | 148 159 | 22 02 | ND | ND | ND | 2.646 |
| 39 | 6 34 3.186 | 2375 | 60 0.76N | 64 31.20E | 62 0N | 61 186E | 635400 | 24586 | 148 169 | 22 12 | ND | ND | ND | 2.646 |
| 40 | 6 34 5.620 | 2375 | 59 52.64N | 64 41.66E | 62 0N | 61 197E | 634975 | 24587 | 148 179 | 22 22 | ND | ND | ND | 2.646 |
| 41 | 6 34 8.054 | 2375 | 59 44.52N | 64 52.12E | 62 0N | 61 208E | 634550 | 24588 | 148 189 | 22 32 | ND | ND | ND | 2.646 |
| 42 | 6 34 10.488 | 2375 | 59 36.40N | 65 02.58E | 62 0N | 61 219E | 634125 | 24589 | 148 199 | 22 42 | ND | ND | ND | 2.646 |
| 43 | 6 34 12.922 | 2375 | 59 28.28N | 65 13.04E | 62 0N | 61 230E | 633700 | 24590 | 148 209 | 22 52 | ND | ND | ND | 2.646 |
| 44 | 6 34 15.356 | 2375 | 59 20.16N | 65 23.50E | 62 0N | 61 241E | 633275 | 24591 | 148 219 | 23 02 | ND | ND | ND | 2.646 |
| 45 | 6 34 17.790 | 2375 | 59 12.04N | 65 33.96E | 62 0N | 61 252E | 632850 | 24592 | 148 229 | 23 12 | ND | ND | ND | 2.646 |

TAB SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED
TOP SECRET

ICS 04000-04

PASS 134D AFT 6MAR65 FRAME EPHEMERIS MISSION 1017-2 ID 43 LIST DATE 10MAY65 PAGE 147

| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | DEG MI | DEG SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|--------|--------|-----------|-----------|--------|---------|----------|-------|--------|----------|---------|---------|---------|------|
| HR MI | SEC | MILS | DEG MIN | DEG MIN | MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 46 | 6 34 | 46.209 | 56 40.33N | 67 39.81E | 57 | 5N | 67 | 16E | 626641 | 24687 | 153 | 55 | 25 | 50 |
| 47 | 6 34 | 48.516 | 56 31.95N | 67 47.23E | 56 | 56N | 67 | 24E | 626288 | 24608 | 154 | 2 | 26 | 0 |
| 48 | 6 34 | 50.819 | 56 23.58N | 67 54.57E | 56 | 48N | 67 | 32E | 625938 | 24608 | 154 | 9 | 26 | 9 |
| 49 | 6 34 | 53.124 | 56 15.19N | 68 1.87E | 56 | 40N | 67 | 39E | 625589 | 24609 | 154 | 16 | 26 | 19 |
| 50 | 6 34 | 55.430 | 56 6.79N | 68 9.11E | 56 | 31N | 67 | 46E | 625243 | 24610 | 154 | 23 | 26 | 28 |
| 51 | 6 34 | 57.725 | 55 58.42N | 68 16.26E | 56 | 23N | 67 | 54E | 624899 | 24611 | 154 | 30 | 26 | 37 |
| 52 | 6 35 | 0.024 | 55 50.03N | 68 23.37E | 56 | 15N | 68 | 1E | 624556 | 24612 | 154 | 37 | 26 | 47 |
| 53 | 6 35 | 2.319 | 55 41.64N | 68 30.40E | 56 | 6N | 68 | 8E | 624216 | 24612 | 154 | 44 | 26 | 56 |
| 54 | 6 35 | 4.614 | 55 33.25N | 68 37.39E | 55 | 58N | 68 | 15E | 623877 | 24613 | 154 | 50 | 27 | 5 |
| 55 | 6 35 | 6.905 | 55 24.86N | 68 44.31E | 55 | 49N | 68 | 22E | 623544 | 24614 | 154 | 57 | 27 | 14 |
| 56 | 6 35 | 9.199 | 55 16.45N | 68 51.19E | 55 | 41N | 68 | 30E | 623205 | 24615 | 155 | 4 | 27 | 24 |
| 57 | 6 35 | 11.489 | 55 8.05N | 68 58.00E | 55 | 33N | 68 | 37E | 622873 | 24616 | 155 | 10 | 27 | 33 |
| 58 | 6 35 | 13.779 | 54 59.64N | 69 4.76E | 55 | 24N | 68 | 43E | 622542 | 24616 | 155 | 17 | 27 | 42 |
| 59 | 6 35 | 16.064 | 54 51.25N | 69 11.46E | 55 | 16N | 68 | 50E | 622213 | 24617 | 155 | 23 | 27 | 52 |
| 60 | 6 35 | 18.354 | 54 42.82N | 69 18.12E | 55 | 7N | 68 | 57E | 621886 | 24618 | 155 | 29 | 28 | 1 |
| 61 | 6 35 | 20.635 | 54 34.43N | 69 24.71E | 54 | 59N | 69 | 4E | 621562 | 24619 | 155 | 36 | 28 | 10 |
| 62 | 6 35 | 22.919 | 54 26.01N | 69 31.25E | 54 | 51N | 69 | 11E | 621239 | 24619 | 155 | 42 | 28 | 19 |
| 63 | 6 35 | 25.216 | 54 17.54N | 69 37.79E | 54 | 42N | 69 | 17E | 620916 | 24620 | 155 | 48 | 28 | 29 |
| 64 | 6 35 | 27.495 | 54 9.13N | 69 44.22E | 54 | 34N | 69 | 24E | 620597 | 24621 | 155 | 54 | 28 | 38 |
| 65 | 6 35 | 29.760 | 54 0.76N | 69 50.57E | 54 | 25N | 69 | 30E | 620282 | 24622 | 156 | 8 | 28 | 47 |
| 66 | 6 35 | 32.035 | 53 52.35N | 69 56.90E | 54 | 17N | 69 | 37E | 619967 | 24622 | 156 | 6 | 28 | 56 |
| 67 | 6 35 | 34.311 | 53 43.93N | 70 3.19E | 54 | 9N | 69 | 43E | 619654 | 24623 | 156 | 12 | 29 | 6 |
| 68 | 6 35 | 36.584 | 53 35.51N | 70 9.42E | 54 | 0N | 69 | 50E | 619334 | 24624 | 156 | 18 | 29 | 15 |
| 69 | 6 35 | 38.859 | 53 27.07N | 70 15.62E | 53 | 52N | 69 | 56E | 619034 | 24625 | 156 | 24 | 29 | 24 |
| 70 | 6 35 | 41.127 | 53 18.66N | 70 21.75E | 53 | 43N | 70 | 2E | 618727 | 24625 | 156 | 30 | 29 | 33 |
| 71 | 6 35 | 43.404 | 53 10.21N | 70 27.86E | 53 | 35N | 70 | 8E | 618422 | 24626 | 156 | 36 | 29 | 43 |
| 72 | 6 35 | 45.669 | 53 1.79N | 70 33.90E | 53 | 26N | 70 | 15E | 618119 | 24627 | 156 | 42 | 29 | 52 |
| 73 | 6 35 | 47.940 | 52 53.35N | 70 39.91E | 53 | 18N | 70 | 21E | 617817 | 24628 | 156 | 47 | 30 | 1 |
| 74 | 6 35 | 50.209 | 52 44.91N | 70 45.87E | 53 | 10N | 70 | 27E | 617517 | 24628 | 156 | 53 | 30 | 10 |
| 75 | 6 35 | 52.479 | 52 36.45N | 70 51.88E | 53 | 1N | 70 | 33E | 617220 | 24629 | 156 | 59 | 30 | 19 |
| 76 | 6 35 | 54.739 | 52 28.03N | 70 57.65E | 52 | 53N | 70 | 39E | 616925 | 24630 | 157 | 4 | 30 | 29 |
| 77 | 6 35 | 57.010 | 52 19.56N | 71 3.50E | 52 | 44N | 70 | 45E | 616631 | 24630 | 157 | 10 | 30 | 38 |
| 78 | 6 35 | 59.270 | 52 11.13N | 71 9.27E | 52 | 36N | 70 | 51E | 616340 | 24631 | 157 | 15 | 30 | 47 |
| 79 | 6 36 | 1.534 | 52 2.67N | 71 15.02E | 52 | 27N | 70 | 57E | 616050 | 24632 | 157 | 21 | 30 | 56 |
| 80 | 6 36 | 3.794 | 51 54.23N | 71 20.71E | 52 | 19N | 71 | 2E | 615762 | 24632 | 157 | 26 | 31 | 5 |
| 81 | 6 36 | 6.055 | 51 45.77N | 71 26.37E | 52 | 11N | 71 | 8E | 615476 | 24633 | 157 | 31 | 31 | 15 |
| 82 | 6 36 | 8.315 | 51 37.31N | 71 31.99E | 52 | 2N | 71 | 14E | 615192 | 24634 | 157 | 37 | 31 | 24 |
| 83 | 6 36 | 10.574 | 51 28.85N | 71 37.57E | 51 | 54N | 71 | 20E | 614911 | 24634 | 157 | 42 | 31 | 33 |
| 84 | 6 36 | 12.834 | 51 20.38N | 71 43.11E | 51 | 45N | 71 | 25E | 614630 | 24635 | 157 | 47 | 31 | 42 |
| 85 | 6 36 | 15.090 | 51 11.92N | 71 48.61E | 51 | 37N | 71 | 31E | 614353 | 24636 | 157 | 52 | 31 | 51 |
| 86 | 6 36 | 17.345 | 51 3.46N | 71 54.07E | 51 | 28N | 71 | 37E | 614077 | 24636 | 157 | 57 | 32 | 0 |
| 87 | 6 36 | 19.600 | 50 54.99N | 71 59.49E | 51 | 20N | 71 | 42E | 613803 | 24637 | 158 | 2 | 32 | 10 |
| 88 | 6 37 | 0.390 | 48 28.94N | 73 31.68E | 48 | 46N | 73 | 16E | 609172 | 24648 | 159 | 28 | 34 | 55 |
| 89 | 6 37 | 3.465 | 48 9.26N | 73 38.21E | 48 | 34N | 73 | 23E | 608849 | 24649 | 159 | 34 | 35 | 8 |
| 90 | 6 37 | 5.984 | 47 59.68N | 73 43.52E | 48 | 24N | 73 | 28E | 608586 | 24650 | 159 | 39 | 35 | 18 |

TOP SECRET

HANDLE VIA

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150002-2

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 1340 AFT 6MAR65 FRAME EPHEMERIS . MISSION 1817-2 ID 43 LIST DATE 10MAY65 PAGE 148

| FRM | 2 TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|--------|--------|--------|-----------|-----------|--------|----------|--------|---------|--------|-------|------|-----|-------|
| HR MI | SEC | MILS | LAT | DEG | MIN | DEG | MIN | FEET | F/S | DEG | MI | DEG | MI | RATE |
| 91 | 6 37 | 8.354 | 2370 | 47 58.67N | 73 48.49E | 48 15N | 73 33E | 608342 | 24650 | 159 44 | 35 27 | ND | ND | 2.651 |
| 92 | 6 37 | 10.664 | 2310 | 47 41.88N | 73 53.29E | 48 7N | 73 38E | 608105 | 24651 | 159 48 | 35 37 | ND | ND | 2.720 |
| 93 | 6 37 | 12.945 | 2281 | 47 33.20N | 73 58.01E | 47 58N | 73 43E | 607874 | 24651 | 159 52 | 35 46 | ND | ND | 2.755 |
| 94 | 6 37 | 15.215 | 2269 | 47 24.56N | 74 2.67E | 47 49N | 73 48E | 607645 | 24652 | 159 57 | 35 55 | ND | ND | 2.769 |
| 95 | 6 37 | 17.479 | 2265 | 47 15.93N | 74 7.29E | 47 41N | 73 52E | 607420 | 24652 | 160 1 | 36 4 | ND | ND | 2.774 |
| 96 | 6 37 | 19.739 | 2260 | 47 7.32N | 74 11.88E | 47 32N | 73 57E | 607197 | 24653 | 160 5 | 36 14 | ND | ND | 2.780 |
| 97 | 6 37 | 21.999 | 2250 | 46 58.70N | 74 16.44E | 47 15N | 74 2E | 606757 | 24654 | 160 9 | 36 23 | ND | ND | 2.788 |
| 98 | 6 37 | 24.249 | 2255 | 46 58.11N | 74 20.95E | 47 15N | 74 6E | 606757 | 24654 | 160 13 | 36 32 | ND | ND | 2.793 |
| 99 | 6 37 | 26.505 | 2255 | 46 41.50N | 74 25.45E | 47 6N | 74 11E | 606540 | 24654 | 160 17 | 36 41 | ND | ND | 2.786 |
| 0100 | 6 37 | 28.755 | 2250 | 46 32.91N | 74 29.91E | 46 58N | 74 15E | 606326 | 24655 | 160 22 | 36 50 | ND | ND | 2.793 |
| 0101 | 6 37 | 31.010 | 2255 | 46 24.29N | 74 34.35E | 46 49N | 74 20E | 606113 | 24656 | 160 26 | 36 59 | ND | ND | 2.786 |
| 0102 | 6 37 | 33.260 | 2250 | 46 15.69N | 74 38.76E | 46 41N | 74 24E | 605903 | 24656 | 160 30 | 37 8 | ND | ND | 2.793 |
| 0103 | 6 37 | 35.505 | 2245 | 46 7.10N | 74 43.13E | 46 32N | 74 29E | 605695 | 24657 | 160 34 | 37 18 | ND | ND | 2.799 |
| 0104 | 6 37 | 37.755 | 2250 | 45 58.50N | 74 47.49E | 46 23N | 74 33E | 605489 | 24657 | 160 37 | 37 27 | ND | ND | 2.793 |
| 0105 | 6 37 | 39.999 | 2245 | 45 49.90N | 74 51.81E | 46 15N | 74 38E | 605285 | 24657 | 160 41 | 37 36 | ND | ND | 2.799 |
| 0106 | 6 37 | 42.249 | 2250 | 45 41.29N | 74 56.11E | 46 6N | 74 42E | 605083 | 24658 | 160 45 | 37 45 | ND | ND | 2.793 |
| 0107 | 6 37 | 44.494 | 2245 | 45 32.69N | 75 0.38E | 45 58N | 74 46E | 604883 | 24658 | 160 49 | 37 54 | ND | ND | 2.799 |
| 0108 | 6 37 | 46.739 | 2245 | 45 24.08N | 75 4.63E | 45 49N | 74 51E | 604686 | 24659 | 160 53 | 38 3 | ND | ND | 2.799 |
| 0109 | 6 37 | 48.984 | 2245 | 45 15.47N | 75 8.85E | 45 40N | 74 55E | 604490 | 24659 | 160 57 | 38 12 | ND | ND | 2.799 |
| 0110 | 6 37 | 51.229 | 2245 | 45 6.86N | 75 13.05E | 45 32N | 74 59E | 604296 | 24660 | 161 1 | 38 21 | ND | ND | 2.799 |
| 0111 | 6 37 | 53.470 | 2240 | 44 58.26N | 75 17.22E | 45 23N | 75 4E | 604105 | 24660 | 161 4 | 38 30 | ND | ND | 2.805 |
| 0112 | 6 38 | 49.559 | 56090 | 41 21.92N | 76 54.44E | 41 47N | 76 42E | 599892 | 24670 | 162 30 | 42 18 | ND | ND | 2.805 |
| 0113 | 6 38 | 52.594 | 3035 | 41 10.15N | 76 59.35E | 41 35N | 76 47E | 599808 | 24671 | 162 34 | 42 30 | ND | ND | 2.812 |
| 0114 | 6 38 | 55.083 | 2490 | 40 51.41N | 77 3.34E | 41 25N | 76 51E | 599659 | 24671 | 162 38 | 42 40 | ND | ND | 2.823 |
| 0115 | 6 38 | 57.429 | 2345 | 40 42.52N | 77 7.09E | 41 16N | 76 55E | 599522 | 24671 | 162 41 | 42 50 | ND | ND | 2.879 |
| 0116 | 6 38 | 59.719 | 2290 | 40 33.72N | 77 11.07E | 41 7N | 76 59E | 599389 | 24672 | 162 44 | 42 59 | ND | ND | 2.744 |
| 0117 | 6 39 | 1.988 | 2270 | 40 24.96N | 77 14.31E | 40 59N | 77 3E | 599261 | 24672 | 162 47 | 43 8 | ND | ND | 2.768 |
| 0118 | 6 39 | 4.243 | 2255 | 40 16.21N | 77 17.86E | 40 50N | 77 6E | 599135 | 24672 | 162 50 | 43 17 | ND | ND | 2.786 |
| 0119 | 6 39 | 6.498 | 2255 | 40 8.50N | 77 21.39E | 40 41N | 77 10E | 599012 | 24673 | 162 53 | 43 26 | ND | ND | 2.786 |
| 0120 | 6 39 | 8.748 | 2250 | 40 7.47N | 77 24.89E | 40 32N | 77 13E | 598891 | 24673 | 162 56 | 43 35 | ND | ND | 2.793 |
| 0121 | 6 39 | 10.998 | 2250 | 39 58.73N | 77 28.38E | 40 24N | 77 17E | 598772 | 24673 | 162 59 | 43 45 | ND | ND | 2.793 |
| 0122 | 6 39 | 13.243 | 2245 | 39 50.00N | 77 31.84E | 40 15N | 77 20E | 598655 | 24674 | 163 2 | 43 54 | ND | ND | 2.799 |
| 0123 | 6 39 | 15.488 | 2245 | 39 41.27N | 77 35.29E | 40 6N | 77 24E | 598541 | 24674 | 163 5 | 44 3 | ND | ND | 2.799 |
| 0124 | 6 39 | 17.734 | 2246 | 39 32.54N | 77 38.72E | 39 57N | 77 27E | 598430 | 24674 | 163 8 | 44 12 | ND | ND | 2.798 |
| 0125 | 6 39 | 19.983 | 2249 | 39 23.79N | 77 42.13E | 39 49N | 77 31E | 598320 | 24674 | 163 11 | 44 21 | ND | ND | 2.794 |
| 0126 | 6 39 | 22.224 | 2240 | 39 15.07N | 77 45.52E | 39 40N | 77 34E | 598212 | 24675 | 163 14 | 44 30 | ND | ND | 2.805 |
| 0127 | 6 39 | 24.464 | 2240 | 39 6.35N | 77 48.89E | 39 31N | 77 38E | 598104 | 24675 | 163 16 | 44 39 | ND | ND | 2.805 |
| 0128 | 6 39 | 26.708 | 2245 | 38 57.62N | 77 52.25E | 39 23N | 77 41E | 598007 | 24675 | 163 19 | 44 48 | ND | ND | 2.799 |
| 0129 | 6 39 | 28.948 | 2240 | 38 48.69N | 77 55.59E | 39 14N | 77 44E | 597904 | 24675 | 163 22 | 44 57 | ND | ND | 2.805 |
| 0130 | 6 39 | 31.193 | 2245 | 38 40.15N | 77 58.92E | 39 5N | 77 48E | 597805 | 24676 | 163 25 | 45 6 | ND | ND | 2.799 |
| 0131 | 6 39 | 33.429 | 2235 | 38 31.44N | 78 2.22E | 38 56N | 77 51E | 597709 | 24676 | 163 28 | 45 15 | ND | ND | 2.811 |
| 0132 | 6 39 | 35.668 | 2240 | 38 22.71N | 78 5.51E | 38 48N | 77 55E | 597616 | 24676 | 163 30 | 45 24 | ND | ND | 2.805 |
| 0133 | 6 39 | 37.903 | 2235 | 38 13.99N | 78 8.78E | 38 39N | 77 58E | 597524 | 24676 | 163 33 | 45 33 | ND | ND | 2.811 |
| 0134 | 6 39 | 40.144 | 2240 | 38 5.26N | 78 12.05E | 38 30N | 78 1E | 597434 | 24677 | 163 36 | 45 42 | ND | ND | 2.805 |
| 0135 | 6 39 | 42.380 | 2236 | 37 56.54N | 78 15.29E | 38 21N | 78 4E | 597347 | 24677 | 163 39 | 45 51 | ND | ND | 2.810 |

TOP SECRET

HANDLE VIA

HANDLE VIA
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| FRM | Z TIME | DTIM | CAMERA | FORMAT | CENTER | ALTITUDE | VELOC | DEG MI | DEG MI | PITCH | ROLL | YAW | SCAN |
|-----------|-------------|---------|-----------|---------|-----------|----------|-------|--------|--------|-------|------|-----|-------|
| HR MI SEC | MILS | DEG MIN | DEG LONG | DEG MIN | DEG LONG | FEET | F/S | DEG MI | DEG MI | MIN | MIN | MIN | RATE |
| 136 | 6 39 44.618 | 2239 | 37 47.88N | 38 13N | 78 18.52E | 597262 | 24677 | 163 41 | 46 1 | ND | ND | ND | 2.806 |
| 137 | 6 39 46.858 | 2240 | 37 39.86N | 4N | 78 11E | 597179 | 24677 | 163 44 | 46 10 | ND | ND | ND | 2.805 |
| 138 | 6 39 49.894 | 2235 | 37 30.35N | 55N | 78 14E | 597099 | 24677 | 163 46 | 46 19 | ND | ND | ND | 2.811 |
| 139 | 6 39 51.329 | 2236 | 37 21.61N | 47N | 78 17E | 597021 | 24678 | 163 49 | 46 28 | ND | ND | ND | 2.810 |
| 140 | 6 39 53.563 | 2234 | 37 12.88N | 38N | 78 21E | 596945 | 24678 | 163 52 | 46 37 | ND | ND | ND | 2.813 |
| 141 | 6 39 55.799 | 2235 | 37 4.15N | 29N | 78 24E | 596872 | 24678 | 163 54 | 46 46 | ND | ND | ND | 2.811 |
| 142 | 6 39 58.038 | 2240 | 36 55.48N | 20N | 78 30E | 596800 | 24678 | 163 57 | 46 55 | ND | ND | ND | 2.805 |
| 143 | 6 40 0.273 | 2235 | 36 46.66N | 12N | 78 30E | 596731 | 24678 | 163 59 | 47 4 | ND | ND | ND | 2.811 |
| 144 | 6 40 2.509 | 2235 | 36 37.92N | 3N | 78 33E | 596664 | 24679 | 164 2 | 47 13 | ND | ND | ND | 2.811 |
| 145 | 6 40 4.743 | 2235 | 36 29.18N | 54N | 78 36E | 596600 | 24679 | 164 4 | 47 22 | ND | ND | ND | 2.811 |
| 146 | 6 40 6.979 | 2236 | 36 20.43N | 45N | 78 40E | 596537 | 24679 | 164 7 | 47 31 | ND | ND | ND | 2.810 |
| 147 | 6 40 9.219 | 2239 | 36 11.67N | 37N | 78 43E | 596477 | 24679 | 164 9 | 47 40 | ND | ND | ND | 2.806 |
| 148 | 6 40 11.453 | 2235 | 36 2.93N | 28N | 78 46E | 596420 | 24679 | 164 12 | 47 49 | ND | ND | ND | 2.811 |
| 149 | 6 40 13.688 | 2235 | 35 54.18N | 19N | 78 49E | 596364 | 24679 | 164 14 | 47 58 | ND | ND | ND | 2.811 |

TOP SECRET

HANDLE VIA

HANDLE VIA
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| FRM | Z TIME | DTIM | CAMERA NADIR | | | FORMAT CENTER | | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | |
|-----|--------|------|--------------|------|------|---------------|-----|--------|----------|-------|---------|------|--------|-------|-----|------|-----|-----|-------|
| | | | HR MI | SEC | MILS | LAT | DEG | MIN | | | | | | | | | DEG | MIN | DEG |
| 1 | 8 | 3 | 16.718 | 0 | 61 | 18.43N | 48 | 8.95E | 61 | 42N | 39 | 38E | 638920 | 24578 | 149 | 11 | 20 | 31 | 1.942 |
| 2 | 8 | 3 | 19.952 | 0 | 61 | 7.21N | 48 | 22.76E | 61 | 31N | 39 | 52E | 638353 | 24579 | 149 | 25 | 20 | 44 | 1.942 |
| 3 | 8 | 3 | 22.622 | 2670 | 60 | 57.93N | 48 | 34.03E | 61 | 22N | 40 | 4E | 637887 | 24580 | 149 | 36 | 20 | 55 | 2.353 |
| 4 | 8 | 3 | 25.127 | 2505 | 60 | 49.21N | 48 | 44.50E | 61 | 13N | 40 | 14E | 637451 | 24581 | 149 | 46 | 21 | 5 | 2.565 |
| 5 | 8 | 3 | 27.577 | 2450 | 60 | 40.66N | 48 | 54.65E | 61 | 5N | 40 | 25E | 637026 | 24582 | 149 | 56 | 21 | 15 | 2.565 |
| 6 | 8 | 3 | 29.992 | 2415 | 60 | 32.22N | 41 | 4.55E | 60 | 56N | 40 | 35E | 636610 | 24583 | 150 | 6 | 21 | 24 | 2.602 |
| 7 | 8 | 3 | 32.389 | 2396 | 60 | 23.83N | 41 | 14.30E | 60 | 48N | 40 | 45E | 636199 | 24584 | 150 | 15 | 21 | 34 | 2.622 |
| 8 | 8 | 3 | 34.777 | 2376 | 60 | 15.46N | 41 | 23.92E | 60 | 40N | 40 | 55E | 635790 | 24585 | 150 | 24 | 21 | 44 | 2.630 |
| 9 | 8 | 3 | 37.153 | 2389 | 60 | 7.12N | 41 | 33.40E | 60 | 31N | 41 | 5E | 635385 | 24586 | 150 | 34 | 21 | 54 | 2.644 |
| 10 | 8 | 3 | 39.527 | 2374 | 59 | 58.77N | 41 | 42.80E | 60 | 23N | 41 | 14E | 634982 | 24587 | 150 | 43 | 22 | 3 | 2.647 |
| 11 | 8 | 3 | 41.897 | 2370 | 59 | 50.42N | 41 | 52.09E | 60 | 15N | 41 | 24E | 634582 | 24588 | 150 | 52 | 22 | 13 | 2.651 |
| 12 | 8 | 3 | 44.263 | 2365 | 59 | 42.07N | 42 | 1.29E | 60 | 6N | 41 | 33E | 634184 | 24589 | 151 | 1 | 22 | 22 | 2.657 |
| 13 | 8 | 3 | 46.622 | 2360 | 59 | 33.73N | 42 | 10.38E | 59 | 58N | 41 | 43E | 633789 | 24590 | 151 | 10 | 22 | 32 | 2.662 |
| 14 | 8 | 3 | 48.982 | 2360 | 59 | 25.38N | 42 | 19.39E | 59 | 50N | 41 | 52E | 633394 | 24591 | 151 | 19 | 22 | 41 | 2.662 |
| 15 | 8 | 3 | 51.338 | 2355 | 59 | 17.04N | 42 | 28.31E | 59 | 41N | 42 | 1E | 633003 | 24591 | 151 | 27 | 22 | 51 | 2.668 |
| 16 | 8 | 3 | 53.692 | 2355 | 59 | 8.68N | 42 | 37.15E | 59 | 33N | 42 | 10E | 632614 | 24592 | 151 | 36 | 23 | 1 | 2.668 |
| 17 | 8 | 3 | 56.037 | 2345 | 59 | 0.35N | 42 | 45.88E | 59 | 25N | 42 | 19E | 632228 | 24593 | 151 | 44 | 23 | 10 | 2.679 |
| 18 | 8 | 3 | 58.388 | 2350 | 58 | 51.98N | 42 | 54.55E | 59 | 16N | 42 | 28E | 631842 | 24594 | 151 | 53 | 23 | 20 | 2.674 |
| 19 | 8 | 4 | 0.732 | 2345 | 58 | 43.63N | 43 | 3.13E | 59 | 8N | 42 | 37E | 631459 | 24595 | 152 | 1 | 23 | 29 | 2.679 |
| 20 | 8 | 4 | 3.072 | 2340 | 58 | 35.28N | 43 | 11.62E | 59 | 0N | 42 | 45E | 631078 | 24596 | 152 | 9 | 23 | 39 | 2.685 |
| 21 | 8 | 4 | 5.412 | 2335 | 58 | 26.92N | 43 | 20.04E | 58 | 51N | 42 | 54E | 630700 | 24597 | 152 | 18 | 23 | 48 | 2.685 |
| 22 | 8 | 4 | 7.747 | 2335 | 58 | 18.56N | 43 | 28.36E | 58 | 43N | 43 | 3E | 630324 | 24598 | 152 | 26 | 23 | 58 | 2.691 |
| 23 | 8 | 4 | 10.082 | 2335 | 58 | 10.20N | 43 | 36.62E | 58 | 35N | 43 | 11E | 629949 | 24599 | 152 | 34 | 24 | 7 | 2.691 |
| 24 | 8 | 4 | 12.412 | 2330 | 58 | 1.84N | 43 | 44.80E | 58 | 26N | 43 | 19E | 629577 | 24600 | 152 | 42 | 24 | 17 | 2.697 |
| 25 | 8 | 4 | 14.742 | 2330 | 57 | 53.47N | 43 | 52.90E | 58 | 18N | 43 | 28E | 629206 | 24600 | 152 | 49 | 24 | 26 | 2.697 |
| 26 | 8 | 4 | 17.067 | 2325 | 57 | 45.11N | 44 | 0.92E | 58 | 9N | 43 | 36E | 628838 | 24601 | 152 | 57 | 24 | 36 | 2.702 |
| 27 | 8 | 4 | 19.393 | 2325 | 57 | 36.74N | 44 | 8.88E | 58 | 1N | 43 | 44E | 628472 | 24602 | 153 | 5 | 24 | 45 | 2.702 |
| 28 | 8 | 4 | 21.723 | 2320 | 57 | 28.34N | 44 | 16.79E | 57 | 53N | 43 | 52E | 628107 | 24603 | 153 | 13 | 24 | 54 | 2.697 |
| 29 | 8 | 4 | 24.042 | 2320 | 57 | 19.97N | 44 | 24.60E | 57 | 44N | 44 | 0E | 627745 | 24604 | 153 | 20 | 25 | 4 | 2.708 |
| 30 | 8 | 4 | 26.357 | 2315 | 57 | 11.61N | 44 | 32.33E | 57 | 36N | 44 | 8E | 627385 | 24605 | 153 | 28 | 25 | 13 | 2.714 |
| 31 | 8 | 4 | 28.678 | 2320 | 57 | 3.22N | 44 | 40.01E | 57 | 28N | 44 | 16E | 627027 | 24606 | 153 | 35 | 25 | 23 | 2.708 |
| 32 | 8 | 4 | 30.992 | 2315 | 56 | 54.84N | 44 | 47.62E | 57 | 19N | 44 | 24E | 626671 | 24606 | 153 | 42 | 25 | 32 | 2.714 |
| 33 | 8 | 4 | 33.308 | 2315 | 56 | 46.44N | 44 | 55.17E | 57 | 11N | 44 | 32E | 626316 | 24607 | 153 | 50 | 25 | 42 | 2.714 |
| 34 | 8 | 4 | 35.617 | 2310 | 56 | 38.06N | 45 | 2.63E | 57 | 3N | 44 | 39E | 625965 | 24608 | 153 | 57 | 25 | 51 | 2.720 |
| 35 | 8 | 4 | 37.928 | 2310 | 56 | 29.67N | 45 | 10.05E | 56 | 54N | 44 | 47E | 625614 | 24609 | 154 | 4 | 26 | 0 | 2.720 |
| 36 | 8 | 4 | 40.237 | 2310 | 56 | 21.27N | 45 | 17.40E | 56 | 46N | 44 | 54E | 625265 | 24610 | 154 | 11 | 26 | 10 | 2.720 |
| 37 | 8 | 4 | 42.542 | 2305 | 56 | 12.88N | 45 | 24.67E | 56 | 37N | 45 | 2E | 624920 | 24611 | 154 | 18 | 26 | 19 | 2.726 |
| 38 | 8 | 4 | 44.843 | 2300 | 55 | 4.49N | 45 | 31.88E | 56 | 29N | 45 | 9E | 624576 | 24611 | 154 | 25 | 26 | 28 | 2.732 |
| 39 | 8 | 4 | 47.147 | 2300 | 55 | 56.09N | 45 | 39.05E | 56 | 21N | 45 | 17E | 624234 | 24612 | 154 | 32 | 26 | 38 | 2.726 |
| 40 | 8 | 4 | 49.447 | 2300 | 55 | 47.69N | 45 | 46.14E | 56 | 12N | 45 | 24E | 623894 | 24613 | 154 | 39 | 26 | 47 | 2.732 |
| 41 | 8 | 4 | 51.747 | 2300 | 55 | 39.28N | 45 | 53.10E | 56 | 4N | 45 | 31E | 623555 | 24614 | 154 | 46 | 26 | 56 | 2.732 |
| 42 | 8 | 4 | 54.042 | 2295 | 55 | 30.89N | 46 | 0.15E | 55 | 55N | 45 | 38E | 623220 | 24615 | 154 | 52 | 27 | 6 | 2.738 |
| 43 | 8 | 4 | 56.343 | 2300 | 55 | 22.46N | 46 | 7.09E | 55 | 47N | 45 | 45E | 622885 | 24615 | 154 | 59 | 27 | 15 | 2.738 |
| 44 | 8 | 4 | 58.638 | 2295 | 55 | 14.05N | 46 | 13.96E | 55 | 39N | 45 | 52E | 622552 | 24616 | 155 | 5 | 27 | 24 | 2.738 |
| 45 | 8 | 5 | 0.929 | 2291 | 55 | 5.64N | 46 | 20.76E | 55 | 30N | 45 | 59E | 622222 | 24617 | 155 | 12 | 27 | 34 | 2.743 |

TOP SECRET

HANDLE VIA

TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

PASS 135D AFT 6MAR65

FRAME EPHEMERIS MISSION 1017-2

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| FRM | HR | MI | SEC | DTIM | MILS | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | F/S | DEG | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | |
|-----|----|----|--------|------|------|--------|-----|--------|------|-----|-----|-----|--------|----------|-------|-----|-----|---------|------|-------|------|-------|------|--|
| | | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | 8 | 5 | 3.218 | 2289 | 54 | 57.23N | 46 | 27.50E | 55 | 22N | 46 | 6E | 621894 | 24618 | 155 | 18 | 27 | 43 | ND | ND | ND | 2.745 | | |
| 47 | 8 | 5 | 5.513 | 2295 | 54 | 48.88N | 46 | 34.21E | 55 | 13N | 46 | 13E | 621567 | 24618 | 155 | 25 | 27 | 52 | ND | ND | ND | 2.738 | | |
| 48 | 8 | 5 | 7.003 | 2290 | 54 | 40.37N | 46 | 40.86E | 55 | 5N | 46 | 20E | 621243 | 24619 | 155 | 31 | 28 | 2 | ND | ND | ND | 2.744 | | |
| 49 | 8 | 5 | 10.088 | 2285 | 54 | 31.96N | 46 | 47.44E | 54 | 57N | 46 | 27E | 620921 | 24620 | 155 | 38 | 28 | 11 | ND | ND | ND | 2.750 | | |
| 50 | 8 | 5 | 12.372 | 2285 | 54 | 23.54N | 46 | 53.98E | 54 | 48N | 46 | 33E | 620801 | 24621 | 155 | 44 | 28 | 28 | ND | ND | ND | 2.758 | | |
| 51 | 8 | 5 | 14.658 | 2286 | 54 | 15.18N | 47 | 0.47E | 54 | 48N | 46 | 40E | 620281 | 24622 | 155 | 50 | 28 | 29 | ND | ND | ND | 2.749 | | |
| 52 | 8 | 5 | 16.942 | 2284 | 54 | 6.67N | 47 | 6.90E | 54 | 31N | 46 | 47E | 619965 | 24622 | 155 | 56 | 28 | 39 | ND | ND | ND | 2.751 | | |
| 53 | 8 | 5 | 19.223 | 2280 | 53 | 58.24N | 47 | 13.28E | 54 | 23N | 46 | 53E | 619651 | 24623 | 156 | 2 | 28 | 48 | ND | ND | ND | 2.756 | | |
| 54 | 8 | 5 | 21.502 | 2280 | 53 | 49.81N | 47 | 19.61E | 54 | 14N | 47 | 0E | 619339 | 24624 | 156 | 8 | 28 | 57 | ND | ND | ND | 2.756 | | |
| 55 | 8 | 5 | 23.782 | 2280 | 53 | 41.37N | 47 | 25.90E | 54 | 6N | 47 | 6E | 619028 | 24625 | 156 | 14 | 29 | 7 | ND | ND | ND | 2.756 | | |
| 56 | 8 | 5 | 26.058 | 2275 | 53 | 32.94N | 47 | 32.12E | 53 | 58N | 47 | 12E | 618720 | 24626 | 156 | 20 | 29 | 16 | ND | ND | ND | 2.762 | | |
| 57 | 8 | 5 | 28.338 | 2280 | 53 | 24.49N | 47 | 38.32E | 53 | 49N | 47 | 19E | 618412 | 24626 | 156 | 26 | 29 | 25 | ND | ND | ND | 2.756 | | |
| 58 | 8 | 5 | 30.607 | 2270 | 53 | 16.07N | 47 | 44.44E | 53 | 32N | 47 | 31E | 618108 | 24627 | 156 | 32 | 29 | 34 | ND | ND | ND | 2.768 | | |
| 59 | 8 | 5 | 32.883 | 2275 | 53 | 7.62N | 47 | 50.54E | 53 | 24N | 47 | 37E | 617805 | 24627 | 156 | 38 | 29 | 43 | ND | ND | ND | 2.762 | | |
| 60 | 8 | 5 | 35.157 | 2275 | 52 | 59.16N | 47 | 56.59E | 53 | 24N | 47 | 44E | 617504 | 24628 | 156 | 43 | 29 | 53 | ND | ND | ND | 2.768 | | |
| 61 | 8 | 5 | 37.428 | 2270 | 52 | 50.72N | 48 | 2.58E | 53 | 15N | 47 | 50E | 617206 | 24629 | 156 | 49 | 30 | 2 | ND | ND | ND | 2.768 | | |
| 62 | 8 | 5 | 39.697 | 2270 | 52 | 42.27N | 48 | 8.53E | 53 | 7N | 47 | 50E | 616909 | 24630 | 156 | 55 | 30 | 11 | ND | ND | ND | 2.768 | | |
| 63 | 8 | 5 | 41.968 | 2270 | 52 | 33.82N | 48 | 14.45E | 52 | 59N | 47 | 56E | 616614 | 24630 | 157 | 0 | 30 | 20 | ND | ND | ND | 2.774 | | |
| 64 | 8 | 5 | 44.232 | 2265 | 52 | 25.37N | 48 | 20.30E | 52 | 50N | 48 | 2E | 616321 | 24631 | 157 | 6 | 30 | 30 | ND | ND | ND | 2.774 | | |
| 65 | 8 | 5 | 46.502 | 2270 | 52 | 16.91N | 48 | 26.13E | 52 | 42N | 48 | 8E | 616030 | 24632 | 157 | 11 | 30 | 39 | ND | ND | ND | 2.768 | | |
| 66 | 8 | 5 | 48.768 | 2265 | 52 | 8.45N | 48 | 31.91E | 52 | 33N | 48 | 13E | 615741 | 24632 | 157 | 17 | 30 | 48 | ND | ND | ND | 2.774 | | |
| 67 | 8 | 5 | 51.032 | 2265 | 51 | 59.99N | 48 | 37.64E | 52 | 25N | 48 | 19E | 615454 | 24633 | 157 | 22 | 30 | 57 | ND | ND | ND | 2.774 | | |
| 68 | 8 | 5 | 53.298 | 2265 | 51 | 51.52N | 48 | 43.34E | 52 | 16N | 48 | 25E | 615169 | 24634 | 157 | 28 | 31 | 6 | ND | ND | ND | 2.774 | | |
| 69 | 8 | 5 | 55.558 | 2260 | 51 | 43.07N | 48 | 48.99E | 52 | 8N | 48 | 31E | 614887 | 24634 | 157 | 33 | 31 | 16 | ND | ND | ND | 2.788 | | |
| 70 | 8 | 5 | 57.822 | 2265 | 51 | 34.59N | 48 | 54.60E | 51 | 59N | 48 | 37E | 614605 | 24635 | 157 | 38 | 31 | 25 | ND | ND | ND | 2.788 | | |
| 71 | 8 | 6 | 0.082 | 2260 | 51 | 26.12N | 49 | 0.17E | 51 | 51N | 48 | 42E | 614326 | 24636 | 157 | 44 | 31 | 34 | ND | ND | ND | 2.788 | | |
| 72 | 8 | 6 | 2.343 | 2260 | 51 | 17.65N | 49 | 5.71E | 51 | 42N | 48 | 48E | 614049 | 24636 | 157 | 49 | 31 | 43 | ND | ND | ND | 2.788 | | |
| 73 | 8 | 6 | 4.603 | 2260 | 51 | 9.17N | 49 | 11.20E | 51 | 34N | 48 | 54E | 613773 | 24637 | 157 | 54 | 31 | 52 | ND | ND | ND | 2.788 | | |
| 74 | 8 | 6 | 6.857 | 2255 | 51 | 0.71N | 49 | 16.64E | 51 | 25N | 48 | 59E | 613500 | 24638 | 157 | 59 | 32 | 1 | ND | ND | ND | 2.786 | | |
| 75 | 8 | 6 | 9.112 | 2255 | 50 | 52.24N | 49 | 22.05E | 51 | 17N | 49 | 5E | 613229 | 24638 | 158 | 4 | 32 | 11 | ND | ND | ND | 2.786 | | |
| 76 | 8 | 6 | 11.367 | 2255 | 50 | 43.77N | 49 | 27.43E | 51 | 9N | 49 | 16E | 612960 | 24639 | 158 | 9 | 32 | 20 | ND | ND | ND | 2.786 | | |
| 77 | 8 | 6 | 13.623 | 2256 | 50 | 35.28N | 49 | 32.77E | 51 | 0N | 49 | 16E | 612693 | 24640 | 158 | 14 | 32 | 29 | ND | ND | ND | 2.785 | | |
| 78 | 8 | 6 | 15.877 | 2254 | 50 | 26.80N | 49 | 38.47E | 50 | 52N | 49 | 21E | 612428 | 24640 | 158 | 19 | 32 | 38 | ND | ND | ND | 2.788 | | |
| 79 | 8 | 6 | 18.125 | 2248 | 50 | 18.33N | 49 | 43.32E | 50 | 43N | 49 | 26E | 612164 | 24641 | 158 | 24 | 32 | 47 | ND | ND | ND | 2.795 | | |
| 80 | 8 | 6 | 20.383 | 2257 | 50 | 9.83N | 49 | 48.56E | 50 | 35N | 49 | 32E | 611902 | 24641 | 158 | 29 | 32 | 56 | ND | ND | ND | 2.784 | | |
| 81 | 8 | 6 | 22.638 | 2255 | 50 | 1.33N | 49 | 53.76E | 50 | 26N | 49 | 37E | 611643 | 24642 | 158 | 34 | 33 | 6 | ND | ND | ND | 2.786 | | |
| 82 | 8 | 6 | 24.907 | 2270 | 41 | 27.44N | 54 | 12.94E | 41 | 52N | 54 | 1E | 599750 | 24671 | 162 | 28 | 42 | 11 | ND | ND | ND | 0.047 | | |
| 83 | 8 | 6 | 27.183 | 2275 | 41 | 16.69N | 54 | 17.44E | 41 | 42N | 54 | 5E | 599583 | 24671 | 162 | 32 | 42 | 22 | ND | ND | ND | 2.264 | | |
| 84 | 8 | 6 | 29.457 | 2775 | 41 | 5.93N | 54 | 21.91E | 41 | 31N | 54 | 10E | 599418 | 24672 | 162 | 36 | 42 | 33 | ND | ND | ND | 2.254 | | |
| 85 | 8 | 6 | 31.733 | 2345 | 40 | 56.84N | 54 | 25.67E | 41 | 22N | 54 | 14E | 599281 | 24672 | 162 | 39 | 42 | 43 | ND | ND | ND | 2.679 | | |
| 86 | 8 | 6 | 34.003 | 2299 | 40 | 47.92N | 54 | 29.33E | 41 | 13N | 54 | 18E | 599149 | 24672 | 162 | 42 | 42 | 52 | ND | ND | ND | 2.733 | | |
| 87 | 8 | 6 | 36.273 | 2272 | 40 | 39.11N | 54 | 32.93E | 41 | 4N | 54 | 21E | 599022 | 24672 | 162 | 45 | 42 | 52 | ND | ND | ND | 2.765 | | |
| 88 | 8 | 6 | 38.548 | 2264 | 40 | 30.32N | 54 | 36.50E | 40 | 55N | 54 | 25E | 598897 | 24673 | 162 | 48 | 43 | 10 | ND | ND | ND | 2.775 | | |
| 89 | 8 | 6 | 40.823 | 2255 | 40 | 21.57N | 54 | 40.04E | 40 | 46N | 54 | 28E | 598774 | 24673 | 162 | 51 | 43 | 19 | ND | ND | ND | 2.86 | | |
| 90 | 8 | 6 | 43.142 | 2249 | 40 | 12.83N | 54 | 43.56E | 40 | 38N | 54 | 32E | 598655 | 24673 | 162 | 54 | 43 | 28 | ND | ND | ND | 2.794 | | |

TOP SECRET

HANDLE VIA
ALL AIR-LEVEL 5

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

FRAME EPHMERIS MISSION 1017-2

ID #3

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| FRM | HR | Z TIME | M I | SEC | DTIM | M ILS | CAMERA | | NADIR | | FORMAT CENTER | | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN | | | |
|-----|----|--------|--------|------|------|--------|--------|--------|--------|-----|---------------|-----|----------|--------|---------|------|-------|------|-----|------|-----|-------|-------|
| | | | | | | | DEG | MIN | DEG | MIN | DEG | MIN | | | | | | | | | DEG | MIN | DEG |
| 91 | 8 | 8 | 58 | 397 | 2256 | 40 | 4.07N | 54 | 47.06E | 40 | 29N | 54 | 36E | 598536 | 24674 | 162 | 57 | 43 | 38 | ND | ND | ND | 2.785 |
| 92 | 8 | 9 | 0.647 | 2250 | 39 | 55.33N | 54 | 50.54E | 40 | 20N | 54 | 39E | 598421 | 24674 | 163 | 0 | 43 | 47 | ND | ND | ND | 2.793 | |
| 93 | 8 | 9 | 2.894 | 2246 | 39 | 46.68N | 54 | 54.00E | 40 | 11N | 54 | 43E | 598388 | 24674 | 163 | 3 | 43 | 56 | ND | ND | ND | 2.798 | |
| 94 | 8 | 9 | 5.142 | 2248 | 39 | 37.85N | 54 | 57.44E | 40 | 3N | 54 | 46E | 598197 | 24675 | 163 | 6 | 44 | 5 | ND | ND | ND | 2.795 | |
| 95 | 8 | 9 | 7.383 | 2241 | 39 | 29.14N | 55 | 0.86E | 39 | 54N | 54 | 50E | 598088 | 24675 | 163 | 9 | 44 | 14 | ND | ND | ND | 2.793 | |
| 96 | 8 | 9 | 9.633 | 2250 | 39 | 20.38N | 55 | 4.27E | 39 | 45N | 54 | 53E | 597982 | 24675 | 163 | 12 | 44 | 23 | ND | ND | ND | 2.799 | |
| 97 | 8 | 9 | 11.877 | 2245 | 39 | 11.65N | 55 | 7.66E | 39 | 37N | 54 | 56E | 597877 | 24675 | 163 | 15 | 44 | 32 | ND | ND | ND | 2.805 | |
| 98 | 8 | 9 | 14.117 | 2240 | 39 | 2.93N | 55 | 11.02E | 39 | 28N | 55 | 0E | 597776 | 24676 | 163 | 18 | 44 | 41 | ND | ND | ND | 2.805 | |
| 99 | 8 | 9 | 16.362 | 2245 | 38 | 54.19N | 55 | 14.38E | 39 | 19N | 55 | 3E | 597676 | 24676 | 163 | 20 | 44 | 50 | ND | ND | ND | 2.799 | |
| 100 | 8 | 9 | 18.607 | 2245 | 38 | 45.44N | 55 | 17.72E | 39 | 10N | 55 | 7E | 597578 | 24676 | 163 | 23 | 44 | 59 | ND | ND | ND | 2.799 | |
| 101 | 8 | 9 | 20.848 | 2240 | 38 | 36.72N | 55 | 21.04E | 39 | 2N | 55 | 10E | 597483 | 24676 | 163 | 26 | 45 | 9 | ND | ND | ND | 2.805 | |
| 102 | 8 | 9 | 23.088 | 2240 | 38 | 27.99N | 55 | 24.34E | 38 | 53N | 55 | 13E | 597398 | 24677 | 163 | 29 | 45 | 18 | ND | ND | ND | 2.805 | |
| 103 | 8 | 9 | 25.327 | 2240 | 38 | 19.26N | 55 | 27.62E | 38 | 44N | 55 | 17E | 597299 | 24677 | 163 | 31 | 45 | 27 | ND | ND | ND | 2.805 | |
| 104 | 8 | 9 | 27.572 | 2245 | 38 | 10.50N | 55 | 30.90E | 38 | 35N | 55 | 20E | 597211 | 24677 | 163 | 34 | 45 | 36 | ND | ND | ND | 2.799 | |
| 105 | 8 | 9 | 29.808 | 2235 | 38 | 1.79N | 55 | 34.15E | 38 | 27N | 55 | 23E | 597125 | 24677 | 163 | 37 | 45 | 45 | ND | ND | ND | 2.811 | |
| 106 | 8 | 9 | 32.048 | 2240 | 37 | 53.05N | 55 | 37.39E | 38 | 18N | 55 | 27E | 597040 | 24677 | 163 | 40 | 45 | 54 | ND | ND | ND | 2.805 | |
| 107 | 8 | 9 | 34.292 | 2245 | 37 | 44.29N | 55 | 40.62E | 38 | 9N | 55 | 30E | 596959 | 24678 | 163 | 42 | 46 | 3 | ND | ND | ND | 2.799 | |
| 108 | 8 | 9 | 36.532 | 2240 | 37 | 35.54N | 55 | 43.83E | 38 | 0N | 55 | 33E | 596880 | 24678 | 163 | 45 | 46 | 12 | ND | ND | ND | 2.805 | |
| 109 | 8 | 9 | 38.768 | 2235 | 37 | 26.82N | 55 | 47.02E | 37 | 52N | 55 | 36E | 596802 | 24678 | 163 | 48 | 46 | 21 | ND | ND | ND | 2.811 | |
| 110 | 8 | 9 | 41.006 | 2238 | 37 | 18.08N | 55 | 50.20E | 37 | 43N | 55 | 40E | 596727 | 24678 | 163 | 50 | 46 | 30 | ND | ND | ND | 2.808 | |
| 111 | 8 | 9 | 43.247 | 2242 | 37 | 9.32N | 55 | 53.37E | 37 | 34N | 55 | 43E | 596654 | 24678 | 163 | 53 | 46 | 39 | ND | ND | ND | 2.802 | |
| 112 | 8 | 9 | 45.482 | 2235 | 37 | 0.59N | 55 | 56.52E | 37 | 26N | 55 | 46E | 596584 | 24679 | 163 | 55 | 46 | 48 | ND | ND | ND | 2.811 | |
| 113 | 8 | 9 | 47.723 | 2240 | 36 | 51.83N | 55 | 59.66E | 37 | 17N | 55 | 49E | 596516 | 24679 | 163 | 58 | 46 | 57 | ND | ND | ND | 2.805 | |

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED

MISSION 1017-2

PASS 1360 AFT 6MAR65

LIST DATE 10MAY65 PAGE 153

| FRM | 2 TIME | DTIM | CAMERA | FORMAT | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|--------|--------|-----------|-----------|----------|---------|---------|--------|--------|---------|---------|-------|
| HR MI | SEC | MILS | LAT | DEG MIN | DEG MIN | DEG MIN | DEG MIN | DEG MI | DEG MI | DEG MIN | DEG MIN | RATE |
| 1 | 9 33 | 4.696 | 61 28.74N | 17 27.13E | 61 45N | 16 56E | 638511 | 24578 | 149 9 | 20 26 | ND | 1.951 |
| 2 | 9 33 | 7.916 | 61 9.58N | 17 40.91E | 61 33N | 17 10E | 637948 | 24580 | 149 22 | 20 39 | ND | 1.951 |
| 3 | 9 33 | 10.566 | 61 0.37N | 17 52.13E | 61 24N | 17 22E | 637487 | 24581 | 149 33 | 20 49 | ND | 2.371 |
| 4 | 9 33 | 13.057 | 60 51.70N | 18 2.57E | 61 16N | 17 32E | 637055 | 24582 | 149 43 | 21 0 | ND | 2.523 |
| 5 | 9 33 | 15.481 | 60 43.25N | 18 12.64E | 61 7N | 17 43E | 636637 | 24583 | 149 53 | 21 9 | ND | 2.591 |
| 6 | 9 33 | 17.876 | 60 34.88N | 18 22.49E | 60 59N | 17 53E | 636225 | 24584 | 150 3 | 21 19 | ND | 2.623 |
| 7 | 9 33 | 20.257 | 60 26.55N | 18 32.19E | 60 51N | 18 3E | 635818 | 24585 | 150 12 | 21 29 | ND | 2.640 |
| 8 | 9 33 | 22.626 | 60 18.25N | 18 41.76E | 60 42N | 18 13E | 635415 | 24586 | 150 22 | 21 38 | ND | 2.651 |
| 9 | 9 33 | 24.981 | 60 9.98N | 18 51.20E | 60 34N | 18 22E | 635015 | 24587 | 150 31 | 21 48 | ND | 2.668 |
| 10 | 9 33 | 27.337 | 60 1.70N | 19 0.54E | 60 26N | 18 32E | 634617 | 24588 | 150 40 | 21 58 | ND | 2.667 |
| 11 | 9 33 | 29.691 | 59 53.41N | 19 9.81E | 60 17N | 18 41E | 634220 | 24589 | 150 49 | 22 7 | ND | 2.669 |
| 12 | 9 33 | 32.037 | 59 45.14N | 19 18.95E | 60 9N | 18 51E | 633827 | 24590 | 151 58 | 22 17 | ND | 2.678 |
| 13 | 9 33 | 34.382 | 59 36.85N | 19 28.02E | 60 1N | 19 0E | 633436 | 24591 | 151 7 | 22 26 | ND | 2.681 |
| 14 | 9 33 | 36.722 | 59 28.58N | 19 36.98E | 59 53N | 19 9E | 633047 | 24592 | 151 15 | 22 36 | ND | 2.685 |
| 15 | 9 33 | 39.062 | 59 20.29N | 19 45.87E | 59 44N | 19 18E | 632659 | 24593 | 151 24 | 22 45 | ND | 2.685 |
| 16 | 9 33 | 41.392 | 59 12.03N | 19 54.65E | 59 36N | 19 27E | 632275 | 24594 | 151 33 | 22 55 | ND | 2.697 |
| 17 | 9 33 | 43.722 | 59 3.75N | 20 3.35E | 59 28N | 19 36E | 631892 | 24594 | 151 41 | 23 4 | ND | 2.697 |
| 18 | 9 33 | 46.052 | 58 55.46N | 20 11.98E | 59 20N | 19 45E | 631512 | 24595 | 151 49 | 23 14 | ND | 2.697 |
| 19 | 9 33 | 48.376 | 58 47.18N | 20 20.51E | 59 11N | 19 54E | 631134 | 24596 | 151 58 | 23 23 | ND | 2.702 |
| 20 | 9 33 | 50.697 | 58 38.98N | 20 28.96E | 59 3N | 20 3E | 630758 | 24597 | 152 6 | 23 32 | ND | 2.707 |
| 21 | 9 33 | 53.018 | 58 30.62N | 20 37.34E | 58 55N | 20 11E | 630384 | 24598 | 152 14 | 23 42 | ND | 2.708 |
| 22 | 9 33 | 55.336 | 58 22.33N | 20 45.64E | 58 47N | 20 20E | 629941 | 24599 | 152 22 | 23 51 | ND | 2.709 |
| 23 | 9 33 | 57.656 | 58 14.02N | 20 53.88E | 58 38N | 20 28E | 629541 | 24599 | 152 30 | 24 1 | ND | 2.720 |
| 24 | 9 33 | 59.972 | 58 5.72N | 21 2.03E | 58 30N | 20 37E | 629272 | 24600 | 152 38 | 24 10 | ND | 2.714 |
| 25 | 9 34 | 2.281 | 57 57.43N | 21 10.10E | 58 22N | 20 45E | 628906 | 24601 | 152 46 | 24 19 | ND | 2.720 |
| 26 | 9 34 | 4.592 | 57 49.12N | 21 18.10E | 58 13N | 20 53E | 628542 | 24602 | 152 54 | 24 29 | ND | 2.720 |
| 27 | 9 34 | 6.901 | 57 40.81N | 21 26.03E | 58 5N | 21 1E | 628179 | 24603 | 153 1 | 24 38 | ND | 2.720 |
| 28 | 9 34 | 9.206 | 57 32.51N | 21 33.89E | 57 57N | 21 9E | 627819 | 24604 | 153 9 | 24 48 | ND | 2.726 |
| 29 | 9 34 | 11.512 | 57 24.19N | 21 41.68E | 57 49N | 21 17E | 627461 | 24604 | 153 16 | 24 57 | ND | 2.726 |
| 30 | 9 34 | 13.816 | 57 15.87N | 21 49.41E | 57 40N | 21 25E | 627104 | 24605 | 153 24 | 25 6 | ND | 2.726 |
| 31 | 9 34 | 16.116 | 57 7.56N | 21 57.05E | 57 32N | 21 33E | 626750 | 24606 | 153 31 | 25 16 | ND | 2.732 |
| 32 | 9 34 | 18.416 | 56 59.24N | 22 4.64E | 57 24N | 21 41E | 626397 | 24607 | 153 39 | 25 25 | ND | 2.732 |
| 33 | 9 34 | 20.717 | 56 50.98N | 22 12.17E | 57 15N | 21 49E | 626046 | 24608 | 153 46 | 25 34 | ND | 2.732 |
| 34 | 9 34 | 23.012 | 56 42.58N | 22 19.63E | 57 7N | 21 56E | 625698 | 24609 | 153 53 | 25 44 | ND | 2.738 |
| 35 | 9 34 | 25.303 | 56 34.26N | 22 27.01E | 56 59N | 22 4E | 625351 | 24609 | 154 0 | 25 53 | ND | 2.743 |
| 36 | 9 34 | 27.597 | 56 25.92N | 22 34.34E | 56 50N | 22 11E | 625007 | 24610 | 154 7 | 26 2 | ND | 2.739 |
| 37 | 9 34 | 29.887 | 56 17.59N | 22 41.60E | 56 42N | 22 19E | 624664 | 24611 | 154 14 | 26 12 | ND | 2.744 |
| 38 | 9 34 | 32.182 | 56 9.23N | 22 48.82E | 56 34N | 22 26E | 624322 | 24612 | 154 21 | 26 21 | ND | 2.738 |
| 39 | 9 34 | 34.467 | 56 0.90N | 22 55.96E | 56 25N | 22 33E | 623984 | 24613 | 154 28 | 26 30 | ND | 2.750 |
| 40 | 9 34 | 36.751 | 55 52.56N | 23 3.04E | 56 17N | 22 41E | 623648 | 24613 | 154 35 | 26 40 | ND | 2.750 |
| 41 | 9 34 | 39.036 | 55 44.21N | 23 18.06E | 56 9N | 22 48E | 623313 | 24614 | 154 42 | 26 49 | ND | 2.750 |
| 42 | 9 34 | 41.321 | 55 35.85N | 23 17.04E | 56 0N | 22 55E | 622979 | 24615 | 154 48 | 26 58 | ND | 2.750 |
| 43 | 9 34 | 43.603 | 55 27.50N | 23 23.94E | 55 52N | 23 2E | 622647 | 24616 | 154 55 | 27 7 | ND | 2.755 |
| 44 | 9 34 | 45.882 | 55 19.15N | 23 30.79E | 55 44N | 23 9E | 622319 | 24617 | 155 2 | 27 17 | ND | 2.757 |
| 45 | 9 34 | 48.161 | 55 10.79N | 23 37.59E | 55 35N | 23 16E | 621992 | 24617 | 155 8 | 27 26 | ND | 2.756 |

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| FRM | HR | MI | SEC | DTIM | DEG | LAT | DEG | LONG | DEG | LAT | DEG | LONG | ALTITUDE | VELOC | F/S | DEG | MI | DEG | MI | PITCH | ROLL | YAW | SCAN |
|-----|----|----|--------|------|-----|--------|-----|--------|-----|-----|-----|------|----------|-------|-----|-----|----|-----|----|-------|------|-------|------|
| | | | | MILS | | MIN | | MIN | | MIN | | MIN | FEET | | | | | | | MIN | MIN | MIN | RATE |
| 46 | 9 | 34 | 58.441 | 2280 | 55 | 2.42N | 23 | 44.34E | 55 | 27N | 23 | 23E | 621666 | 24618 | 155 | 15 | 27 | 35 | ND | ND | ND | 2.756 | |
| 47 | 9 | 34 | 52.717 | 2275 | 54 | 54.06N | 23 | 51.03E | 55 | 19N | 23 | 30E | 621343 | 24619 | 155 | 21 | 27 | 44 | ND | ND | ND | 2.762 | |
| 48 | 9 | 34 | 54.991 | 2275 | 54 | 45.78N | 23 | 57.66E | 55 | 18N | 23 | 37E | 621821 | 24620 | 155 | 27 | 27 | 54 | ND | ND | ND | 2.762 | |
| 49 | 9 | 34 | 57.267 | 2275 | 54 | 37.32N | 24 | 4.24E | 55 | 2N | 23 | 43E | 620701 | 24620 | 155 | 34 | 28 | 3 | ND | ND | ND | 2.762 | |
| 50 | 9 | 34 | 59.537 | 2271 | 54 | 28.96N | 24 | 10.77E | 54 | 54N | 23 | 50E | 620368 | 24622 | 155 | 40 | 28 | 12 | ND | ND | ND | 2.767 | |
| 51 | 9 | 35 | 1.812 | 2274 | 54 | 20.57N | 24 | 17.25E | 54 | 45N | 23 | 57E | 620864 | 24622 | 155 | 46 | 28 | 21 | ND | ND | ND | 2.763 | |
| 52 | 9 | 35 | 4.077 | 2269 | 54 | 12.21N | 24 | 23.67E | 54 | 37N | 24 | 3E | 619755 | 24623 | 155 | 52 | 28 | 31 | ND | ND | ND | 2.773 | |
| 53 | 9 | 35 | 6.347 | 2269 | 54 | 3.83N | 24 | 30.05E | 54 | 28N | 24 | 10E | 619443 | 24623 | 155 | 58 | 28 | 40 | ND | ND | ND | 2.769 | |
| 54 | 9 | 35 | 8.616 | 2270 | 53 | 55.44N | 24 | 36.38E | 54 | 28N | 24 | 16E | 619133 | 24624 | 156 | 4 | 28 | 49 | ND | ND | ND | 2.768 | |
| 55 | 9 | 35 | 10.882 | 2265 | 53 | 47.06N | 24 | 42.66E | 54 | 12N | 24 | 23E | 618825 | 24625 | 156 | 10 | 28 | 58 | ND | ND | ND | 2.774 | |
| 56 | 9 | 35 | 13.146 | 2265 | 53 | 38.67N | 24 | 48.88E | 54 | 3N | 24 | 29E | 618519 | 24626 | 156 | 16 | 29 | 7 | ND | ND | ND | 2.774 | |
| 57 | 9 | 35 | 15.411 | 2265 | 53 | 30.28N | 24 | 55.07E | 53 | 55N | 24 | 35E | 618214 | 24626 | 156 | 22 | 29 | 17 | ND | ND | ND | 2.774 | |
| 58 | 9 | 35 | 17.677 | 2265 | 53 | 21.87N | 25 | 1.21E | 53 | 47N | 24 | 42E | 617912 | 24627 | 156 | 28 | 29 | 26 | ND | ND | ND | 2.774 | |
| 59 | 9 | 35 | 19.941 | 2265 | 53 | 13.47N | 25 | 7.31E | 53 | 38N | 24 | 48E | 617612 | 24628 | 156 | 34 | 29 | 35 | ND | ND | ND | 2.774 | |
| 60 | 9 | 35 | 22.201 | 2260 | 53 | 5.07N | 25 | 13.34E | 53 | 30N | 24 | 54E | 617313 | 24628 | 156 | 40 | 29 | 44 | ND | ND | ND | 2.780 | |
| 61 | 9 | 35 | 24.461 | 2260 | 52 | 56.67N | 25 | 19.34E | 53 | 21N | 25 | 0E | 617017 | 24629 | 156 | 45 | 29 | 53 | ND | ND | ND | 2.780 | |
| 62 | 9 | 35 | 26.727 | 2265 | 52 | 48.25N | 25 | 25.31E | 53 | 13N | 25 | 6E | 616721 | 24630 | 156 | 51 | 30 | 3 | ND | ND | ND | 2.774 | |
| 63 | 9 | 35 | 28.986 | 2260 | 52 | 39.83N | 25 | 31.22E | 53 | 5N | 25 | 12E | 616428 | 24631 | 156 | 57 | 30 | 12 | ND | ND | ND | 2.780 | |
| 64 | 9 | 35 | 31.241 | 2255 | 52 | 31.43N | 25 | 37.08E | 52 | 56N | 25 | 18E | 616137 | 24631 | 157 | 2 | 30 | 21 | ND | ND | ND | 2.786 | |
| 65 | 9 | 35 | 33.501 | 2260 | 52 | 23.00N | 25 | 42.92E | 52 | 48N | 25 | 24E | 615849 | 24632 | 157 | 8 | 30 | 30 | ND | ND | ND | 2.786 | |
| 66 | 9 | 35 | 35.757 | 2255 | 52 | 14.59N | 25 | 48.45E | 52 | 31N | 25 | 30E | 615552 | 24633 | 157 | 13 | 30 | 39 | ND | ND | ND | 2.786 | |
| 67 | 9 | 35 | 38.017 | 2260 | 52 | 6.15N | 25 | 54.45E | 52 | 22N | 25 | 42E | 615277 | 24633 | 157 | 19 | 30 | 49 | ND | ND | ND | 2.780 | |
| 68 | 9 | 35 | 40.276 | 2260 | 51 | 57.71N | 26 | 0.16E | 52 | 14N | 25 | 48E | 614712 | 24635 | 157 | 29 | 31 | 7 | ND | ND | ND | 2.790 | |
| 69 | 9 | 35 | 42.528 | 2252 | 51 | 49.29N | 26 | 5.81E | 52 | 22N | 25 | 42E | 614492 | 24634 | 157 | 24 | 30 | 58 | ND | ND | ND | 2.780 | |
| 70 | 9 | 35 | 44.781 | 2253 | 51 | 40.86N | 26 | 11.43E | 52 | 6N | 25 | 53E | 614432 | 24635 | 157 | 35 | 31 | 16 | ND | ND | ND | 2.789 | |
| 71 | 9 | 35 | 47.036 | 2255 | 51 | 32.41N | 26 | 17.01E | 51 | 57N | 25 | 59E | 614154 | 24636 | 157 | 40 | 31 | 25 | ND | ND | ND | 2.786 | |
| 72 | 9 | 35 | 49.286 | 2250 | 51 | 23.98N | 26 | 22.55E | 51 | 49N | 26 | 5E | 613879 | 24637 | 157 | 45 | 31 | 34 | ND | ND | ND | 2.793 | |
| 73 | 9 | 35 | 51.537 | 2251 | 51 | 15.54N | 26 | 28.05E | 51 | 40N | 26 | 10E | 613605 | 24637 | 157 | 50 | 31 | 44 | ND | ND | ND | 2.793 | |
| 74 | 9 | 35 | 53.791 | 2254 | 51 | 7.08N | 26 | 33.52E | 51 | 32N | 26 | 16E | 613333 | 24638 | 157 | 55 | 31 | 53 | ND | ND | ND | 2.788 | |
| 75 | 9 | 35 | 56.047 | 2254 | 50 | 58.62N | 26 | 38.96E | 51 | 23N | 26 | 22E | 613063 | 24639 | 158 | 0 | 32 | 2 | ND | ND | ND | 2.786 | |
| 76 | 9 | 35 | 58.297 | 2250 | 50 | 50.16N | 26 | 44.34E | 51 | 15N | 26 | 27E | 612795 | 24639 | 158 | 5 | 32 | 11 | ND | ND | ND | 2.793 | |
| 77 | 9 | 36 | 0.541 | 2245 | 50 | 41.73N | 26 | 49.68E | 51 | 6N | 26 | 32E | 612529 | 24640 | 158 | 10 | 32 | 20 | ND | ND | ND | 2.799 | |
| 78 | 9 | 36 | 2.791 | 2250 | 50 | 33.26N | 26 | 55.00E | 50 | 58N | 26 | 38E | 612265 | 24640 | 158 | 15 | 32 | 29 | ND | ND | ND | 2.793 | |
| 79 | 9 | 36 | 5.041 | 2250 | 50 | 24.79N | 27 | 0.28E | 50 | 50N | 26 | 43E | 612003 | 24641 | 158 | 20 | 32 | 38 | ND | ND | ND | 2.793 | |
| 80 | 9 | 36 | 7.291 | 2250 | 50 | 16.32N | 27 | 5.53E | 50 | 41N | 26 | 49E | 611743 | 24642 | 158 | 25 | 32 | 48 | ND | ND | ND | 2.793 | |
| 81 | 9 | 36 | 9.536 | 2245 | 50 | 7.86N | 27 | 10.73E | 50 | 33N | 26 | 54E | 611485 | 24642 | 158 | 30 | 32 | 57 | ND | ND | ND | 2.799 | |
| 82 | 9 | 36 | 11.781 | 2245 | 49 | 59.39N | 27 | 15.04E | 50 | 24N | 26 | 59E | 611228 | 24643 | 158 | 35 | 33 | 6 | ND | ND | ND | 2.799 | |
| 83 | 9 | 36 | 14.026 | 2245 | 49 | 50.92N | 27 | 21.04E | 50 | 16N | 27 | 4E | 610974 | 24644 | 158 | 40 | 33 | 15 | ND | ND | ND | 2.799 | |
| 84 | 9 | 36 | 16.276 | 2250 | 49 | 42.43N | 27 | 26.15E | 50 | 7N | 27 | 10E | 610721 | 24644 | 158 | 45 | 33 | 24 | ND | ND | ND | 2.793 | |
| 85 | 9 | 36 | 18.521 | 2245 | 49 | 33.95N | 27 | 31.22E | 49 | 59N | 27 | 15E | 610471 | 24645 | 158 | 49 | 33 | 33 | ND | ND | ND | 2.799 | |
| 86 | 9 | 36 | 20.767 | 2245 | 49 | 25.46N | 27 | 36.26E | 49 | 50N | 27 | 20E | 610221 | 24645 | 158 | 54 | 33 | 42 | ND | ND | ND | 2.799 | |
| 87 | 9 | 36 | 23.012 | 2245 | 49 | 16.97N | 27 | 41.26E | 49 | 42N | 27 | 25E | 609975 | 24646 | 158 | 59 | 33 | 51 | ND | ND | ND | 2.805 | |
| 88 | 9 | 36 | 25.251 | 2240 | 49 | 8.50N | 27 | 46.22E | 49 | 33N | 27 | 30E | 609731 | 24646 | 159 | 3 | 34 | 1 | ND | ND | ND | 2.805 | |
| 89 | 9 | 36 | 27.496 | 2245 | 48 | 60.00N | 27 | 51.17E | 49 | 25N | 27 | 35E | 609488 | 24647 | 159 | 8 | 34 | 10 | ND | ND | ND | 2.799 | |
| 90 | 9 | 36 | 29.741 | 2245 | 48 | 51.49N | 27 | 56.08E | 49 | 16N | 27 | 40E | 609247 | 24648 | 159 | 12 | 34 | 19 | ND | ND | ND | 2.799 | |

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| FRM | Z TIME | DTIM | CAMERA | NADIR | FORMAT | CENTER | ALTITUDE | VELOC | AZIMUTH | SUN/ | PITCH | ROLL | YAW | SCAN |
|-------|-------------|------|-----------|-----------|---------|---------|----------|-------|---------|--------|---------|---------|---------|-------|
| HR MI | SEC | MILS | LAT | DEG MIN | DEG MIN | DEG MIN | FEET | F/S | DEG MI | DEG MI | DEG MIN | DEG MIN | DEG MIN | RATE |
| 91 | 9 36 31.981 | 2240 | 48 43.00N | 28 0.95E | 49 8N | 27 45E | 609008 | 24648 | 159 17 | 34 28 | ND | ND | ND | 2.805 |
| 92 | 9 36 34.227 | 2245 | 48 34.49N | 28 5.80E | 48 59N | 27 50E | 608771 | 24649 | 159 21 | 34 37 | ND | ND | ND | 2.799 |
| 93 | 9 36 36.467 | 2240 | 48 25.99N | 28 10.61E | 48 51N | 27 55E | 608536 | 24649 | 159 26 | 34 46 | ND | ND | ND | 2.805 |
| 94 | 9 36 38.711 | 2245 | 48 17.47N | 28 15.40E | 48 42N | 28 0E | 608302 | 24650 | 159 30 | 34 55 | ND | ND | ND | 2.799 |
| 95 | 9 36 40.951 | 2245 | 48 8.96N | 28 20.15E | 48 34N | 28 5E | 608072 | 24650 | 159 35 | 35 4 | ND | ND | ND | 2.805 |
| 96 | 9 36 43.196 | 2245 | 48 0.42N | 28 24.88E | 48 25N | 28 10E | 607842 | 24651 | 159 39 | 35 13 | ND | ND | ND | 2.799 |
| 97 | 9 36 45.437 | 2240 | 47 51.91N | 28 29.57E | 48 17N | 28 14E | 607615 | 24652 | 159 43 | 35 23 | ND | ND | ND | 2.805 |
| 98 | 9 36 47.677 | 2240 | 47 43.38N | 28 34.24E | 48 8N | 28 19E | 607390 | 24652 | 159 47 | 35 32 | ND | ND | ND | 2.805 |
| 99 | 9 36 49.917 | 2241 | 47 34.86N | 28 38.88E | 48 0N | 28 24E | 607167 | 24653 | 159 52 | 35 41 | ND | ND | ND | 2.804 |
| 100 | 9 36 52.161 | 2244 | 47 26.31N | 28 43.49E | 47 51N | 28 29E | 606945 | 24653 | 159 56 | 35 50 | ND | ND | ND | 2.800 |
| 101 | 9 36 54.401 | 2240 | 47 17.78N | 28 48.07E | 47 43N | 28 33E | 606726 | 24654 | 160 0 | 35 59 | ND | ND | ND | 2.805 |
| 102 | 9 36 56.642 | 2240 | 47 9.24N | 28 52.63E | 47 34N | 28 38E | 606508 | 24654 | 160 4 | 36 8 | ND | ND | ND | 2.805 |
| 103 | 9 36 58.882 | 2240 | 46 52.15N | 29 1.65E | 47 17N | 28 47E | 606280 | 24655 | 160 8 | 36 17 | ND | ND | ND | 2.805 |
| 104 | 9 37 1.121 | 2240 | 46 43.61N | 29 6.11E | 47 8N | 28 52E | 606060 | 24655 | 160 13 | 36 26 | ND | ND | ND | 2.805 |
| 105 | 9 37 3.357 | 2236 | 46 35.06N | 29 10.56E | 47 0N | 28 56E | 605844 | 24656 | 160 17 | 36 35 | ND | ND | ND | 2.810 |
| 106 | 9 37 5.597 | 2239 | 46 26.52N | 29 14.97E | 46 51N | 29 1E | 605629 | 24657 | 160 21 | 36 44 | ND | ND | ND | 2.806 |
| 107 | 9 37 7.831 | 2235 | 46 17.96N | 29 19.36E | 46 43N | 29 5E | 605414 | 24657 | 160 25 | 36 54 | ND | ND | ND | 2.811 |
| 108 | 9 37 10.071 | 2240 | 46 9.41N | 29 23.72E | 46 34N | 29 9E | 605200 | 24657 | 160 29 | 37 3 | ND | ND | ND | 2.805 |
| 109 | 9 37 12.307 | 2235 | 46 0.86N | 29 28.05E | 46 26N | 29 14E | 604984 | 24658 | 160 33 | 37 12 | ND | ND | ND | 2.811 |
| 110 | 9 37 14.542 | 2236 | 45 52.29N | 29 32.37E | 46 17N | 29 18E | 604768 | 24658 | 160 37 | 37 21 | ND | ND | ND | 2.806 |
| 111 | 9 37 16.781 | 2235 | 45 43.73N | 29 36.65E | 46 9N | 29 23E | 604552 | 24659 | 160 40 | 37 30 | ND | ND | ND | 2.811 |
| 112 | 9 37 19.017 | 2235 | 45 35.14N | 29 40.92E | 46 0N | 29 27E | 604336 | 24660 | 160 44 | 37 39 | ND | ND | ND | 2.805 |
| 113 | 9 37 21.257 | 2240 | 45 26.58N | 29 45.16E | 45 51N | 29 31E | 604120 | 24660 | 160 48 | 37 48 | ND | ND | ND | 2.811 |
| 114 | 9 37 23.491 | 2235 | 45 17.99N | 29 49.38E | 45 43N | 29 36E | 603904 | 24661 | 160 52 | 37 57 | ND | ND | ND | 2.805 |
| 115 | 9 37 25.731 | 2240 | 45 9.41N | 29 53.56E | 45 34N | 29 40E | 603688 | 24661 | 160 56 | 38 6 | ND | ND | ND | 2.811 |
| 116 | 9 37 27.967 | 2235 | 45 0.84N | 29 57.73E | 45 26N | 29 44E | 603472 | 24661 | 161 0 | 38 15 | ND | ND | ND | 2.811 |
| 117 | 9 37 30.201 | 2235 | 44 52.25N | 30 1.87E | 45 17N | 29 48E | 603256 | 24662 | 161 4 | 38 24 | ND | ND | ND | 2.810 |
| 118 | 9 37 32.438 | 2236 | 44 43.65N | 30 5.99E | 45 8N | 29 53E | 603040 | 24662 | 161 8 | 38 33 | ND | ND | ND | 2.810 |
| 119 | 9 37 34.677 | 2235 | 44 35.07N | 30 10.09E | 45 0N | 29 57E | 602824 | 24663 | 161 12 | 38 43 | ND | ND | ND | 2.806 |
| 120 | 9 37 36.911 | 2235 | 44 26.47N | 30 14.16E | 44 51N | 30 1E | 602608 | 24663 | 161 16 | 38 52 | ND | ND | ND | 2.811 |
| 121 | 9 37 39.146 | 2235 | 44 17.86N | 30 18.22E | 44 43N | 30 5E | 602392 | 24664 | 161 20 | 39 1 | ND | ND | ND | 2.811 |
| 122 | 9 37 41.387 | 2240 | 44 9.26N | 30 22.24E | 44 34N | 30 9E | 602176 | 24664 | 161 24 | 39 10 | ND | ND | ND | 2.805 |
| 123 | 9 37 43.621 | 2235 | 44 0.68N | 30 26.24E | 44 26N | 30 13E | 601960 | 24664 | 161 28 | 39 19 | ND | ND | ND | 2.811 |
| 124 | 9 37 45.852 | 2235 | 43 52.08N | 30 30.22E | 44 17N | 30 17E | 601744 | 24665 | 161 32 | 39 28 | ND | ND | ND | 2.818 |
| 125 | 9 37 48.086 | 2235 | 43 43.47N | 30 34.18E | 44 8N | 30 21E | 601528 | 24665 | 161 36 | 39 37 | ND | ND | ND | 2.811 |
| 126 | 9 37 50.321 | 2235 | 43 34.85N | 30 38.12E | 44 0N | 30 25E | 601312 | 24666 | 161 40 | 39 46 | ND | ND | ND | 2.811 |
| 127 | 9 37 52.557 | 2235 | 43 26.26N | 30 42.03E | 43 51N | 30 29E | 601096 | 24666 | 161 44 | 39 55 | ND | ND | ND | 2.818 |
| 128 | 9 37 54.786 | 2230 | 43 17.64N | 30 45.92E | 43 42N | 30 33E | 600880 | 24667 | 161 48 | 40 4 | ND | ND | ND | 2.818 |
| 129 | 9 37 57.021 | 2235 | 43 9.02N | 30 49.80E | 43 34N | 30 37E | 600664 | 24667 | 161 52 | 40 13 | ND | ND | ND | 2.811 |
| 130 | 9 37 59.257 | 2235 | 43 0.44N | 30 53.68E | 43 26N | 30 41E | 600448 | 24668 | 161 56 | 40 22 | ND | ND | ND | 2.811 |

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| FRM | Z TIME | HR MI | SEC | DTIM | MILS | CAMERA | | | NADR | | | FORMAT CENTER | | | ALTITUDE | VELOC | AZIMUTH | SUNV/ | PITCH | ROLL | YAW | SCAN RATE |
|-----|--------|-------|--------|------|------|--------|-----|--------|------|-----|-----|---------------|--------|-------|----------|-------|---------|-------|-------|------|-----|-----------|
| | | | | | | LAT | DEG | MIN | LONG | DEG | MIN | DEG | LAT | MIN | | | | | | | | |
| 1 | 11 | 17 | 5.286 | 0 | 6 | 26.85N | 18 | 29.68E | 6 | 54N | 18 | 22E | 634461 | 24592 | 168 | 25 | 76 | 50 | ND | ND | ND | 1.921 |
| 2 | 11 | 17 | 8.557 | 3270 | 6 | 13.82N | 18 | 32.35E | 6 | 41N | 18 | 25E | 635106 | 24591 | 168 | 25 | 77 | 1 | ND | ND | ND | 1.921 |
| 3 | 11 | 17 | 11.252 | 2696 | 6 | 3.08N | 18 | 34.55E | 6 | 38N | 18 | 27E | 635642 | 24590 | 168 | 26 | 77 | 18 | ND | ND | ND | 2.331 |
| 4 | 11 | 17 | 13.806 | 2553 | 5 | 52.91N | 18 | 36.63E | 6 | 20N | 18 | 29E | 636153 | 24589 | 168 | 26 | 77 | 18 | ND | ND | ND | 2.461 |
| 5 | 11 | 17 | 16.286 | 2481 | 5 | 43.02N | 18 | 38.65E | 6 | 18N | 18 | 31E | 636652 | 24587 | 168 | 26 | 77 | 26 | ND | ND | ND | 2.533 |
| 6 | 11 | 17 | 18.742 | 2456 | 5 | 33.24N | 18 | 40.64E | 6 | 8N | 18 | 33E | 637149 | 24586 | 168 | 27 | 77 | 35 | ND | ND | ND | 2.558 |
| 7 | 11 | 17 | 21.195 | 2453 | 5 | 23.47N | 18 | 42.64E | 6 | 51N | 18 | 35E | 637648 | 24585 | 168 | 27 | 77 | 43 | ND | ND | ND | 2.561 |
| 8 | 11 | 17 | 23.636 | 2440 | 5 | 13.75N | 18 | 44.62E | 5 | 41N | 18 | 37E | 638147 | 24584 | 168 | 27 | 77 | 50 | ND | ND | ND | 2.575 |
| 9 | 11 | 17 | 26.067 | 2432 | 5 | 4.06N | 18 | 46.59E | 5 | 31N | 18 | 39E | 638648 | 24583 | 168 | 28 | 77 | 58 | ND | ND | ND | 2.584 |
| 10 | 11 | 17 | 28.501 | 2434 | 4 | 54.37N | 18 | 48.57E | 5 | 22N | 18 | 41E | 639152 | 24582 | 168 | 28 | 78 | 6 | ND | ND | ND | 2.581 |
| 11 | 11 | 17 | 30.940 | 2439 | 4 | 44.65N | 18 | 50.54E | 5 | 12N | 18 | 43E | 639659 | 24580 | 168 | 28 | 78 | 14 | ND | ND | ND | 2.576 |
| 12 | 11 | 17 | 33.371 | 2431 | 4 | 34.97N | 18 | 52.51E | 5 | 2N | 18 | 45E | 640168 | 24579 | 168 | 28 | 78 | 22 | ND | ND | ND | 2.585 |
| 13 | 11 | 17 | 35.812 | 2440 | 4 | 25.25N | 18 | 54.49E | 4 | 53N | 18 | 47E | 640683 | 24578 | 168 | 29 | 78 | 29 | ND | ND | ND | 2.580 |
| 14 | 11 | 17 | 38.246 | 2435 | 4 | 15.55N | 18 | 56.46E | 4 | 43N | 18 | 49E | 641198 | 24577 | 168 | 29 | 78 | 37 | ND | ND | ND | 2.580 |
| 15 | 11 | 17 | 40.686 | 2439 | 4 | 5.84N | 18 | 58.43E | 4 | 33N | 18 | 51E | 641716 | 24576 | 168 | 29 | 78 | 44 | ND | ND | ND | 2.576 |
| 16 | 11 | 17 | 43.116 | 2431 | 3 | 56.16N | 19 | 0.39E | 4 | 24N | 18 | 53E | 642237 | 24575 | 168 | 29 | 78 | 52 | ND | ND | ND | 2.585 |
| 17 | 11 | 17 | 45.565 | 2449 | 3 | 46.41N | 19 | 2.37E | 4 | 14N | 18 | 55E | 642763 | 24573 | 168 | 30 | 78 | 59 | ND | ND | ND | 2.566 |
| 18 | 11 | 17 | 48.006 | 2440 | 3 | 36.69N | 19 | 4.34E | 4 | 4N | 18 | 57E | 643291 | 24572 | 168 | 30 | 79 | 7 | ND | ND | ND | 2.575 |
| 19 | 11 | 17 | 50.445 | 2440 | 3 | 26.97N | 19 | 6.30E | 3 | 54N | 18 | 59E | 643822 | 24571 | 168 | 30 | 79 | 14 | ND | ND | ND | 2.575 |
| 20 | 11 | 17 | 52.886 | 2440 | 3 | 17.25N | 19 | 8.27E | 3 | 45N | 19 | 1E | 644355 | 24570 | 168 | 30 | 79 | 21 | ND | ND | ND | 2.575 |
| 21 | 11 | 17 | 55.331 | 2446 | 3 | 7.52N | 19 | 10.21E | 3 | 35N | 19 | 3E | 644892 | 24568 | 168 | 30 | 79 | 28 | ND | ND | ND | 2.569 |
| 22 | 11 | 17 | 57.780 | 2449 | 2 | 57.77N | 19 | 12.21E | 3 | 25N | 19 | 5E | 645433 | 24567 | 168 | 31 | 79 | 35 | ND | ND | ND | 2.566 |
| 23 | 11 | 18 | 0.230 | 2450 | 2 | 48.01N | 19 | 14.19E | 3 | 16N | 19 | 7E | 645977 | 24566 | 168 | 31 | 79 | 42 | ND | ND | ND | 2.565 |
| 24 | 11 | 18 | 2.681 | 2450 | 2 | 38.25N | 19 | 16.16E | 3 | 6N | 19 | 9E | 646524 | 24565 | 168 | 31 | 79 | 49 | ND | ND | ND | 2.565 |
| 25 | 11 | 18 | 5.132 | 2451 | 2 | 28.50N | 19 | 18.13E | 2 | 56N | 19 | 11E | 647074 | 24563 | 168 | 31 | 79 | 56 | ND | ND | ND | 2.564 |
| 26 | 11 | 18 | 7.581 | 2450 | 2 | 18.75N | 19 | 20.10E | 2 | 46N | 19 | 13E | 647626 | 24562 | 168 | 31 | 80 | 3 | ND | ND | ND | 2.565 |
| 27 | 11 | 18 | 10.036 | 2455 | 2 | 8.97N | 19 | 22.07E | 2 | 37N | 19 | 15E | 648182 | 24561 | 168 | 31 | 80 | 9 | ND | ND | ND | 2.559 |
| 28 | 11 | 18 | 12.500 | 2464 | 1 | 59.17N | 19 | 24.05E | 2 | 27N | 19 | 17E | 648743 | 24559 | 168 | 31 | 80 | 16 | ND | ND | ND | 2.550 |
| 29 | 11 | 18 | 14.956 | 2465 | 1 | 49.39N | 19 | 26.02E | 2 | 17N | 19 | 19E | 649306 | 24558 | 168 | 32 | 80 | 23 | ND | ND | ND | 2.558 |
| 30 | 11 | 18 | 17.421 | 2465 | 1 | 39.58N | 19 | 28.00E | 2 | 7N | 19 | 21E | 649872 | 24557 | 168 | 32 | 80 | 29 | ND | ND | ND | 2.549 |
| 31 | 11 | 18 | 19.887 | 2465 | 1 | 29.76N | 19 | 29.98E | 1 | 57N | 19 | 23E | 650442 | 24556 | 168 | 32 | 80 | 35 | ND | ND | ND | 2.549 |
| 32 | 11 | 18 | 22.356 | 2470 | 1 | 19.93N | 19 | 31.96E | 1 | 48N | 19 | 25E | 651016 | 24554 | 168 | 32 | 80 | 41 | ND | ND | ND | 2.544 |
| 33 | 11 | 18 | 24.830 | 2474 | 1 | 10.09N | 19 | 33.95E | 1 | 38N | 19 | 27E | 651593 | 24553 | 168 | 32 | 80 | 47 | ND | ND | ND | 2.540 |
| 34 | 11 | 18 | 27.301 | 2470 | 1 | 0.26N | 19 | 35.93E | 1 | 28N | 19 | 29E | 652173 | 24552 | 168 | 32 | 80 | 53 | ND | ND | ND | 2.544 |
| 35 | 11 | 18 | 29.771 | 2471 | 0 | 50.42N | 19 | 37.91E | 1 | 18N | 19 | 31E | 652755 | 24550 | 168 | 32 | 80 | 59 | ND | ND | ND | 2.543 |
| 36 | 11 | 18 | 32.246 | 2475 | 0 | 40.58N | 19 | 39.89E | 1 | 8N | 19 | 32E | 653341 | 24549 | 168 | 32 | 81 | 5 | ND | ND | ND | 2.539 |
| 37 | 11 | 18 | 34.731 | 2485 | 0 | 30.69N | 19 | 41.89E | 0 | 59N | 19 | 34E | 653933 | 24547 | 168 | 32 | 81 | 10 | ND | ND | ND | 2.528 |
| 38 | 11 | 18 | 37.211 | 2480 | 0 | 20.82N | 19 | 43.87E | 0 | 49N | 19 | 36E | 654526 | 24546 | 168 | 32 | 81 | 16 | ND | ND | ND | 2.534 |
| 39 | 11 | 18 | 39.700 | 2489 | 0 | 10.92N | 19 | 45.87E | 0 | 39N | 19 | 38E | 655124 | 24545 | 168 | 32 | 81 | 21 | ND | ND | ND | 2.524 |
| 40 | 11 | 18 | 42.187 | 2486 | 0 | 1.00N | 19 | 47.86E | 0 | 29N | 19 | 40E | 655724 | 24543 | 168 | 32 | 81 | 26 | ND | ND | ND | 2.527 |
| 41 | 11 | 18 | 44.677 | 2490 | 0 | 8.88S | 19 | 49.86E | 0 | 19N | 19 | 42E | 656328 | 24542 | 168 | 32 | 81 | 31 | ND | ND | ND | 2.523 |
| 42 | 11 | 18 | 47.166 | 2490 | 0 | 18.79S | 19 | 51.85E | 0 | 9N | 19 | 44E | 656934 | 24541 | 168 | 32 | 81 | 36 | ND | ND | ND | 2.523 |
| 43 | 11 | 18 | 49.661 | 2495 | 0 | 28.71S | 19 | 53.85E | 0 | 15 | 19 | 46E | 657545 | 24539 | 168 | 32 | 81 | 41 | ND | ND | ND | 2.518 |
| 44 | 11 | 18 | 52.165 | 2504 | 0 | 38.67S | 19 | 55.86E | 0 | 11S | 19 | 48E | 658160 | 24538 | 168 | 32 | 81 | 45 | ND | ND | ND | 2.509 |
| 45 | 11 | 18 | 54.660 | 2495 | 0 | 48.59S | 19 | 57.85E | 0 | 21S | 19 | 50E | 658776 | 24536 | 168 | 32 | 81 | 50 | ND | ND | ND | 2.518 |

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