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June 1965

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TECHNICAL PUBLICATION

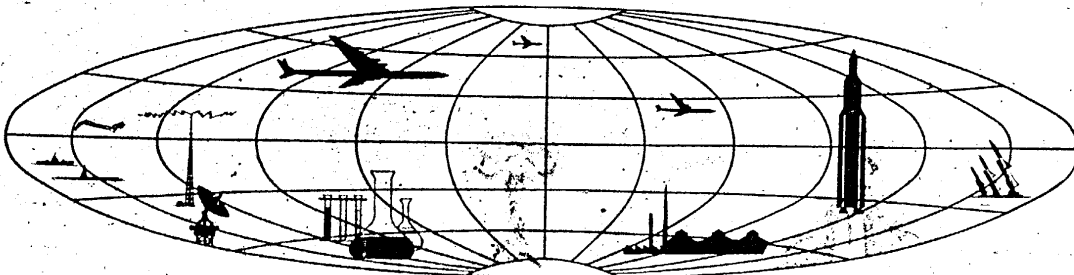
FRAME EPHEMERIS AND CAMERA ORIENTATION DATA MISSION 1009-2

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TECHNICAL PUBLICATION

FRAME EPHEMERIS AND CAMERA ORIENTATION DATA
MISSION 1009-2

June 1965

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This publication is to be disseminated only on a "MUST-KNOW" basis, in keeping with the provisions of TCS 3237-58 (ARC-M-82) as indicated by the SPECIAL HANDLING REQUIRED control stamp. The use of this publication is limited to personnel who require the information for mensuration purposes.

PREFACE

This publication contains the ephemeris for the cameras employed in Mission 1009-2. It also contains the camera attitude values of pitch, roll, and yaw as determined from stellar data and supplemented by means of horizon camera data.

Yaw attitude data is lacking where there was no stellar imagery from which it could be reduced. Scan rate, expressed in radians per second, denotes the lens rotational velocity.

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 (north-to-south) passes are suffixed with the letter "D."

Some frames listed do not have camera attitude given because no images were available. Also, no frames of the aft camera unit have attitude listed. Where this data is lacking, the letters "ND" are used in the appropriate columns.

NOTE: The first four frames of the mission (1 through 4, Pass 49D) are missing. These were not considered operational photos, and, therefore, were intentionally omitted from this ephemeris. This procedure is unique for this mission.

Attitude for the aft camera can be established approximately by the following procedure:

1. Locate the forward camera frame with the time of exposure nearest to that of the desired aft frame.
2. Algebraically add ± 10 minutes to the listed forward roll value and apply the result to the aft frame as its roll value.
3. Algebraically add -30 degrees, 10 minutes, to the listed forward pitch value and apply the result to the aft frame as its pitch value.
4. Algebraically add -09 minutes to the listed forward yaw value and apply the result to the aft frame as its yaw value. (Yaw is accurate only to about 15 minutes because of technical problems in reducing the stellar data)

DEFINITIONS

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- 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.

III

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HANDLE VIA
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PART I

HANDLE VIA
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SPECIAL HANDLING REQUIRED

FRAME EPHEMERIS MISSION 1009-2 ID 27 LIST DATE 07MAY65 PAGE 1

PASS 49D FWD 9AUG64

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			DEG	MIN		DEG	MI	DEG	MI			DEG	MIN	DEG	MIN
5	1	27	45.233	49255	20	37.67N	157	18.07W	20	10N	157	12W	644157	24776	172	35	48	59	15	4	0	8	-0	11	0.011
6	1	27	48.233	3000	20	25.49N	157	16.39W	19	58N	157	10W	644780	24775	172	36	48	56	15	3	0	8	-0	10	2.094
7	1	27	50.873	2640	20	14.78N	157	14.91W	19	47N	157	9W	645334	24773	172	37	48	54	15	2	0	7	-0	9	2.380
8	1	27	53.384	2510	20	4.59N	157	13.52W	19	37N	157	8W	645865	24772	172	38	48	52	15	1	0	7	-0	8	2.503
9	1	27	55.835	2451	19	54.64N	157	12.16W	19	27N	157	6W	646387	24771	172	38	48	50	15	0	0	7	-0	7	2.564
10	1	27	58.264	2429	19	44.79N	157	10.81W	19	17N	157	5W	646908	24770	172	39	48	48	14	59	0	6	-0	6	2.587
11	1	28	0.670	2406	19	35.02N	157	9.48W	19	7N	157	4W	647428	24769	172	40	48	46	14	58	0	6	-0	6	2.611
12	1	28	3.069	2400	19	25.28N	157	8.16W	18	57N	157	2W	647950	24767	172	41	48	43	14	57	0	5	-0	5	2.618
13	1	28	5.464	2394	19	15.56N	157	6.85W	18	48N	157	1W	648475	24766	172	42	48	41	14	56	0	5	-0	4	2.625
14	1	28	7.858	2395	19	5.85N	157	5.54W	18	38N	157	0W	649003	24765	172	43	48	39	14	56	0	5	-0	4	2.623
15	1	28	10.248	2390	18	56.15N	157	4.24W	18	28N	156	59W	649534	24764	172	44	48	37	14	55	0	3	-0	3	2.629
16	1	28	12.644	2395	18	46.43N	157	2.94W	18	18N	156	57W	650070	24763	172	44	48	34	14	55	0	3	-0	3	2.623
17	1	28	15.028	2385	18	36.75N	157	1.64W	18	9N	156	56W	650608	24761	172	45	48	32	14	54	0	2	-0	3	2.634
18	1	28	17.419	2390	18	27.05N	157	0.35W	17	59N	156	55W	651149	24760	172	46	48	30	14	53	0	2	-0	2	2.629

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FRAME EPHIMERIS MISSION 1009-2

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FRM	HR	MI	SEC	DTIM	DEG	LAT	DEG	MIN	DEG	LONG	DEG	MIN	DEG	LONG	ALTITUDE	VELOC	DEG	MI	DEG	SUN/	PITCH	ROLL	YAW	SCAN
				MILS											FEET	F/S			MI	DEG	MIN	DEG	MIN	RATE
181	5	54	22.112	2270	42	34.09N	130	6.17E	42	8N	130	17E	611079	24851	168	56	48	42	15	3	0	33	2.768	
182	5	54	24.383	2270	42	24.97N	130	9.17E	41	59N	130	19E	611086	24851	168	59	48	45	15	3	0	33	2.768	
183	5	54	26.652	2270	42	15.86N	130	11.56E	41	58N	130	21E	611085	24851	169	1	48	47	15	2	0	33	2.774	
184	5	54	28.917	2265	42	6.76N	130	13.93E	41	41N	130	24E	611078	24851	169	3	48	49	15	2	0	32	2.768	
185	5	54	31.188	2270	41	57.64N	130	16.29E	41	32N	130	26E	611103	24851	169	6	48	52	15	2	0	31	2.768	
186	5	54	33.457	2270	41	48.32N	130	18.64E	41	22N	130	28E	611132	24851	169	8	48	54	15	2	0	30	2.768	
187	5	54	35.728	2270	41	39.48N	130	20.97E	41	13N	130	30E	611164	24851	169	10	48	56	15	1	0	28	2.768	
188	5	54	37.997	2270	41	30.28N	130	23.29E	41	4N	130	33E	611199	24851	169	13	48	59	15	1	0	27	2.774	
189	5	54	40.263	2265	41	21.17N	130	25.60E	40	55N	130	35E	611237	24850	169	15	49	1	15	1	0	25	2.774	
190	5	54	42.527	2265	41	12.06N	130	27.88E	40	46N	130	37E	611278	24850	169	17	49	3	15	1	0	24	2.774	
191	5	54	44.792	2265	41	2.96N	130	30.16E	40	37N	130	39E	611323	24850	169	19	49	5	15	1	0	22	2.762	
192	5	54	47.067	2275	40	53.81N	130	32.43E	40	28N	130	41E	611378	24850	169	22	49	8	15	1	0	20	2.762	
193	5	54	49.338	2270	40	44.67N	130	34.69E	40	19N	130	43E	611421	24850	169	24	49	10	15	1	0	18	2.762	
194	5	54	51.612	2275	40	35.52N	130	36.93E	40	9N	130	46E	611475	24850	169	26	49	12	15	1	0	16	2.762	
195	5	54	53.883	2270	40	26.39N	130	39.16E	40	0N	130	48E	611532	24850	169	28	49	14	14	59	0	15	2.768	
196	5	54	56.157	2275	40	17.24N	130	41.38E	39	51N	130	50E	611592	24850	169	30	49	16	14	59	0	13	2.762	
197	5	54	58.433	2275	40	8.08N	130	43.59E	39	42N	130	52E	611656	24850	169	32	49	18	14	59	0	11	2.762	
198	5	55	0.707	2275	39	58.93N	130	45.79E	39	33N	130	54E	611723	24849	169	35	49	20	14	59	0	9	2.762	
199	5	55	2.978	2270	39	49.79N	130	47.96E	39	24N	130	56E	611792	24849	169	37	49	22	14	58	0	8	2.762	
200	5	55	5.252	2275	39	40.63N	130	50.14E	39	14N	130	58E	611865	24849	169	39	49	24	14	58	0	6	2.762	
201	5	55	7.523	2271	39	31.48N	130	52.29E	39	5N	131	0E	611941	24849	169	41	49	26	14	58	0	4	2.757	
202	5	55	9.803	2279	39	22.30N	130	54.44E	38	56N	131	2E	612020	24849	169	43	49	28	14	57	0	2	2.757	
203	5	55	12.072	2270	39	13.16N	130	56.57E	38	47N	131	4E	612103	24849	169	45	49	30	14	57	0	1	2.756	
204	5	55	14.353	2280	39	3.98N	130	58.70E	38	38N	131	6E	612189	24849	169	47	49	32	14	57	0	1	2.756	
205	5	55	16.627	2275	38	54.01N	131	0.81E	38	29N	131	8E	612278	24848	169	49	49	33	14	57	0	3	2.762	

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FRAME EPHEMERIS

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PASS 530 FWD 9AUG64

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	LONG DEG MIN	LAT DEG MIN	LONG DEG MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
1	7 16 25.585	0	75	5.34N	77	34.72E	678784	24698	138	33	30	56	15	1.778
2	7 16 29.054	3549	74	54.52N	77	11.28E	677898	24692	139	18	31	6	15	1.778
3	7 16 31.877	2824	74	45.85N	78	39.68E	677196	24694	139	39	31	14	15	2.225
4	7 16 34.527	2650	74	37.65N	79	5.77E	676541	24695	148	5	31	21	15	2.371
5	7 16 39.653	2592	74	29.58N	79	38.93E	675983	24697	148	31	31	28	15	2.424
6	7 16 42.169	2516	74	13.72N	80	18.69E	675281	24698	148	55	31	35	15	2.488
7	7 16 44.675	2585	74	5.78N	80	41.81E	674856	24701	141	19	31	42	15	2.497
8	7 16 47.174	2499	73	57.82N	81	4.48E	673458	24703	142	6	31	55	15	2.514
9	7 16 49.698	2517	73	49.76N	81	26.93E	672842	24704	142	29	32	2	15	2.496
10	7 16 52.122	2432	73	41.93N	81	48.28E	672258	24705	142	58	32	9	15	2.584
11	7 16 54.598	2475	73	33.93N	82	9.66E	671664	24707	143	12	32	15	15	2.539
12	7 16 57.115	2518	73	25.74N	82	31.06E	671865	24708	143	34	32	22	15	2.495
13	7 16 59.549	2433	73	17.80N	82	51.48E	670486	24710	143	54	32	29	15	2.582
14	7 17 2.014	2465	73	9.72N	83	11.69E	669328	24711	144	15	32	35	15	2.549
15	7 17 4.453	2448	73	1.68N	83	31.45E	669328	24712	144	35	32	42	15	2.575
16	7 17 6.912	2459	72	53.55N	83	51.05E	668751	24714	144	55	32	48	15	2.555
17	7 17 9.406	2494	72	45.27N	84	18.62E	668168	24715	145	15	32	55	15	2.617
18	7 17 11.808	2401	72	37.26N	84	29.16E	667610	24716	145	34	33	1	15	2.519
19	7 17 14.269	2461	72	29.82N	84	47.88E	667048	24718	145	53	33	8	15	2.553
20	7 17 16.698	2438	72	20.86N	85	6.07E	666488	24719	146	11	33	14	15	2.586
21	7 17 19.133	2434	72	12.05N	85	24.02E	665928	24720	146	29	33	21	15	2.581
22	7 17 21.567	2435	72	4.41N	85	41.70E	665364	24722	146	47	33	27	15	2.580
23	7 17 24.002	2435	71	56.15N	85	59.11E	664818	24723	147	5	33	34	15	2.588
24	7 17 26.458	2456	71	47.78N	86	16.48E	664253	24724	147	23	33	48	15	2.558
25	7 17 28.889	2438	71	39.47N	86	33.26E	663784	24725	147	48	33	47	15	2.586
26	7 17 31.303	2414	71	31.19N	86	49.75E	663162	24727	147	57	33	53	15	2.586
27	7 17 33.732	2438	71	22.83N	87	6.11E	662619	24728	148	13	33	59	15	2.591
28	7 17 36.157	2425	71	14.46N	87	22.18E	662079	24729	148	38	34	6	15	2.596
29	7 17 38.577	2428	71	6.09N	87	37.99E	661543	24730	148	46	34	12	15	2.596
30	7 17 40.997	2428	70	57.69N	87	53.57E	661088	24732	149	2	34	18	15	2.596
31	7 17 43.417	2428	70	49.27N	88	8.93E	660477	24733	149	17	34	25	15	2.602
32	7 17 45.832	2415	70	40.84N	88	24.08E	659949	24734	149	48	33	31	15	2.602
33	7 17 48.242	2418	70	32.40N	88	38.88E	659424	24735	149	48	34	37	15	2.607
34	7 17 50.647	2405	70	15.58N	88	53.49E	658903	24737	150	3	34	44	15	2.613
35	7 17 53.053	2418	70	7.08N	89	7.89E	658384	24738	150	17	34	50	15	2.607
36	7 17 55.463	2408	69	58.52N	89	36.88E	657867	24739	150	32	34	56	15	2.618
37	7 17 57.862	2401	69	50.01N	89	49.88E	657355	24740	151	46	35	3	15	2.617
38	7 18 0.264	2408	69	41.49N	89	16.83E	656845	24741	151	14	35	15	15	2.618
39	7 18 2.663	2408	69	32.95N	90	3.44E	656338	24743	151	14	35	15	15	2.619
40	7 18 5.063	2399	69	24.38N	90	18.83E	655832	24744	151	28	35	21	15	2.618
41	7 18 7.463	2395	69	15.82N	90	38.83E	655330	24745	151	41	35	27	15	2.618
42	7 18 9.857	2385	69	7.28N	90	53.88E	654830	24746	151	55	35	33	15	2.623
43	7 18 12.242	2385	69	58.78N	91	8.42E	654336	24747	152	8	35	39	15	2.634
44	7 18 14.633	2398	68	50.78N	91	47E	653843	24748	152	21	35	45	15	2.629

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PASS 530 FWD 9AUG64

FRM	Z TIME	DTIM	DEG MIN	DEG LONG	DEG MIN	DEG LONG	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
181	7 25 32.772	2285	40 33.57N	107 47.98E	55E	611685	24849	169 26	49 20	15 11	-0 13	0 35	2.750	
182	7 25 35.058	2285	40 24.38N	107 50.22E	58E	611748	24849	169 29	49 22	15 11	-0 12	0 34	2.750	
183	7 25 37.338	2285	40 15.20N	107 52.45E	0E	611812	24849	169 31	49 24	15 10	-0 12	0 34	2.750	
184	7 25 39.622	2285	40 6.01N	107 54.66E	2E	611881	24849	169 33	49 26	15 10	-0 12	0 33	2.750	
185	7 25 41.912	2290	39 56.79N	107 56.87E	4E	611953	24849	169 35	49 28	15 9	-0 12	0 32	2.750	
186	7 25 44.192	2280	39 47.61N	107 59.05E	6E	612028	24849	169 37	49 30	15 8	-0 12	0 31	2.750	
187	7 25 46.482	2290	39 38.39N	108 1.24E	8E	612108	24848	169 42	49 32	15 7	-0 12	0 29	2.750	
188	7 25 48.763	2280	39 29.21N	108 3.40E	11E	612187	24848	169 44	49 34	15 6	-0 12	0 29	2.750	
189	7 25 51.048	2285	39 20.01N	108 5.55E	13E	612272	24848	169 44	49 35	15 5	-0 12	0 27	2.750	
190	7 25 53.328	2281	39 10.82N	108 7.69E	15E	612368	24848	169 46	49 37	15 4	-0 12	0 27	2.750	
191	7 25 55.617	2289	39 1.60N	108 9.82E	17E	612452	24848	169 48	49 39	15 3	-0 13	0 26	2.750	
192	7 25 57.897	2280	38 52.42N	108 11.94E	19E	612546	24848	169 50	49 41	15 2	-0 12	0 25	2.750	
193	7 26 0.188	2290	38 43.19N	108 14.05E	21E	612643	24847	169 52	49 43	15 1	-0 12	0 24	2.750	
194	7 26 2.473	2285	38 33.98N	108 16.14E	23E	612744	24847	169 54	49 44	15 0	-0 12	0 22	2.750	
195	7 26 4.763	2290	38 24.75N	108 18.23E	25E	612848	24847	169 56	49 46	14 58	-0 12	0 21	2.750	
196	7 26 7.048	2285	38 15.54N	108 20.31E	27E	612955	24847	169 58	49 48	14 57	-0 12	0 20	2.750	
197	7 26 9.338	2290	38 6.31N	108 22.37E	29E	613066	24846	170 0	49 49	14 57	-0 12	0 19	2.750	
198	7 26 11.622	2285	37 57.10N	108 24.42E	31E	613179	24846	170 2	49 51	14 55	-0 11	0 17	2.750	
199	7 26 13.908	2286	37 47.88N	108 26.46E	33E	613297	24846	170 4	49 53	14 54	-0 11	0 16	2.745	
200	7 26 16.197	2289	37 38.65N	108 28.49E	35E	613417	24846	170 6	49 54	14 54	-0 11	0 15	2.745	
201	7 26 18.487	2280	37 29.42N	108 30.52E	37E	613540	24845	170 8	49 56	14 53	-0 11	0 14	2.745	
202	7 26 20.772	2285	37 20.20N	108 32.52E	39E	613668	24845	170 10	49 57	14 52	-0 10	0 13	2.750	
203	7 26 23.067	2295	37 10.94N	108 34.53E	41E	613798	24845	170 12	49 58	14 52	-0 10	0 11	2.738	
204	7 26 25.357	2290	37 1.70N	108 36.52E	43E	613931	24845	170 13	50 0	14 52	-0 10	0 9	2.744	
205	7 26 27.647	2290	36 52.46N	108 38.50E	45E	614068	24844	170 15	50 1	14 52	-0 9	0 8	2.744	
206	7 26 29.942	2295	36 43.20N	108 40.44E	47E	614209	24844	170 17	50 3	14 52	-0 9	0 6	2.738	
207	7 26 32.237	2295	36 33.94N	108 42.44E	49E	614352	24844	170 19	50 4	14 52	-0 9	0 5	2.738	
208	7 26 34.532	2295	36 24.68N	108 44.39E	51E	614499	24843	170 21	50 5	14 52	-0 8	0 4	2.738	
209	7 26 36.827	2295	36 15.41N	108 46.34E	53E	614649	24843	170 23	50 6	14 52	-0 8	0 2	2.744	
210	7 26 39.117	2290	35 6.17N	108 48.27E	55E	614802	24843	170 25	50 8	14 52	-0 7	0 1	2.732	
211	7 26 41.417	2300	35 56.88N	108 50.20E	57E	614959	24842	170 28	50 9	14 52	-0 6	0 0	2.732	
212	7 26 43.713	2295	35 47.61N	108 52.11E	59E	615119	24842	170 30	50 10	14 53	-0 5	0 0	2.738	
213	7 26 46.013	2300	35 38.33N	108 54.02E	1E	615283	24842	170 32	50 11	14 53	-0 5	0 0	2.732	
214	7 26 48.313	2300	35 29.04N	108 55.92E	3E	615450	24841	170 33	50 12	14 53	-0 4	0 0	2.732	
215	7 26 50.612	2300	35 19.75N	108 57.81E	5E	615620	24841	170 33	50 13	14 54	-0 4	0 0	2.732	
216	7 26 52.912	2300	35 10.46N	108 59.69E	7E	615794	24840	170 35	50 14	14 54	-0 3	0 0	2.732	
217	7 26 55.213	2300	35 1.17N	109 1.56E	9E	615971	24840	170 37	50 14	14 55	-0 3	0 0	2.732	
218	7 26 57.508	2295	34 51.89N	109 3.42E	10E	616151	24840	170 39	50 15	14 56	-0 2	0 0	2.738	
219	7 26 59.813	2305	34 42.58N	109 5.28E	12E	616334	24839	170 40	50 16	14 56	-0 2	0 0	2.726	
220	7 27 2.112	2300	34 33.29N	109 7.12E	14E	616521	24839	170 42	50 17	14 57	-0 2	0 0	2.732	
221	7 27 4.417	2305	34 23.98N	109 8.96E	16E	616712	24838	170 44	50 18	14 57	-0 2	0 0	2.726	
222	7 27 6.718	2300	34 14.68N	109 10.79E	18E	616906	24838	170 46	50 19	14 58	-0 2	0 0	2.732	
223	7 27 9.027	2310	34 5.34N	109 12.61E	20E	617103	24837	170 47	50 20	14 58	-0 2	0 0	2.720	
224	7 27 11.332	2305	33 56.03N	109 14.42E	21E	617304	24837	170 49	50 21	14 59	-0 2	0 0	2.726	
225	7 27 13.636	2305	33 46.71N	109 16.23E	23E	617509	24837	170 51	50 23	14 59	-0 2	0 0	2.726	

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 530 FWD 9AUG64

FRAME EPHMERIS MISSION 1889-2

ID 27

LIST DATE 07MAY65 PAGE 12

FRM	HR	MI	SEC	DTIM	DEG	LAT	DEG	LONG	DEG	LAT	DEG	LONG	ALTITUDE	VELOC	DEG	MI	DEG	MI	PITCH	DEG	MIN	ROLL	DEG	MIN	YAW	DEG	MIN	SCAN
226	7	27	15.942	2305	33	37.39N	109	18.02E	33	11N	109	25E	617716	24836	170	52	50	23	14	59	-8	5	-8	17	2.726			
227	7	27	18.252	2310	33	28.05N	109	19.81E	33	1N	109	27E	617927	24836	170	54	50	24	14	59	-8	5	-8	17	2.720			
228	7	27	20.567	2315	33	18.69N	109	21.60E	32	52N	109	28E	618142	24835	170	55	50	25	14	59	-8	7	-8	18	2.714			
229	7	27	22.877	2310	33	9.35N	109	23.37E	32	43N	109	30E	618361	24835	170	57	50	26	14	59	-8	9	-8	18	2.720			
230	7	27	25.188	2310	33	0.08N	109	25.13E	32	33N	109	32E	618582	24834	170	59	50	26	14	59	-8	9	-8	18	2.720			
231	7	27	27.498	2311	32	50.66N	109	26.89E	32	24N	109	33E	618806	24834	171	0	50	27	14	59	-8	10	-8	18	2.719			
232	7	27	29.813	2314	32	41.30N	109	28.64E	32	15N	109	35E	619035	24833	171	2	50	27	14	59	-8	10	-8	18	2.715			
233	7	27	32.127	2310	32	31.93N	109	30.39E	32	5N	109	37E	619267	24833	171	3	50	28	14	58	-8	11	-8	18	2.714			
234	7	27	34.436	2310	32	22.59N	109	32.12E	31	56N	109	38E	619502	24832	171	5	50	28	14	58	-8	11	-8	18	2.720			
235	7	27	36.752	2315	32	13.22N	109	33.85E	31	46N	109	40E	619741	24832	171	6	50	29	14	58	-8	10	-8	18	2.714			
236	7	27	39.063	2310	31	4.49N	109	35.56E	31	37N	109	42E	619983	24831	171	8	50	29	14	58	-8	10	-8	18	2.720			
237	7	27	41.383	2320	31	54.49N	109	37.28E	31	28N	109	44E	620229	24830	171	10	50	30	14	58	-8	9	-8	18	2.708			
238	7	27	43.692	2320	31	45.14N	109	38.98E	31	18N	109	45E	620477	24830	171	11	50	30	14	57	-8	9	-8	18	2.708			
239	7	27	46.013	2320	31	35.75N	109	40.68E	31	9N	109	47E	620730	24829	171	13	50	30	14	57	-8	9	-8	18	2.708			
240	7	27	48.333	2321	31	26.36N	109	42.37E	31	8N	109	49E	620987	24829	171	14	50	31	14	56	-8	8	-8	17	2.707			
241	7	27	50.662	2329	31	16.95N	109	44.06E	30	50N	109	50E	621247	24828	171	16	50	31	14	55	-8	8	-8	17	2.698			
242	7	27	52.982	2320	31	7.54N	109	45.74E	30	41N	109	52E	621511	24828	171	17	50	31	14	55	-8	7	-8	17	2.701			
243	7	27	55.309	2326	30	58.12N	109	47.42E	30	31N	109	54E	621778	24827	171	18	50	31	14	55	-8	7	-8	17	2.697			
244	7	27	57.639	2330	30	48.69N	109	49.09E	30	22N	109	55E	622034	24826	171	20	50	32	14	54	-8	6	-8	16	2.697			
245	7	27	59.969	2329	30	39.26N	109	50.75E	30	13N	109	57E	622284	24825	171	21	50	32	14	54	-8	6	-8	16	2.697			
246	7	28	2.298	2330	30	29.83N	109	52.40E	30	3N	109	59E	622534	24824	171	23	50	32	14	53	-8	5	-8	16	2.698			
247	7	28	4.627	2330	30	18.48N	109	54.05E	29	54N	110	0E	622784	24824	171	24	50	32	14	53	-8	4	-8	16	2.697			
248	7	28	6.957	2330	30	10.96N	109	55.69E	29	44N	110	2E	623034	24824	171	26	50	32	14	52	-8	4	-8	15	2.697			
249	7	28	9.286	2331	30	1.52N	109	57.33E	29	35N	110	4E	623284	24823	171	27	50	32	14	52	-8	3	-8	15	2.695			
250	7	28	11.617	2332	29	52.09N	109	58.95E	29	25N	110	5E	623534	24822	171	28	50	32	14	51	-8	3	-8	15	2.698			
251	7	28	13.955	2336	29	42.63N	110	0.57E	29	16N	110	7E	623784	24821	171	30	50	32	14	51	-8	2	-8	14	2.698			
252	7	28	16.287	2334	29	35.18N	110	2.19E	29	7N	110	8E	624034	24821	171	31	50	32	14	50	-8	1	-8	14	2.692			
253	7	28	18.632	2335	29	23.72N	110	3.80E	28	57N	110	10E	624284	24820	171	33	50	32	14	49	-8	1	-8	13	2.691			
254	7	28	20.957	2335	29	14.26N	110	5.40E	28	48N	110	12E	624534	24820	171	34	50	31	14	49	-8	1	-8	12	2.691			
255	7	28	23.287	2339	29	4.82N	110	6.99E	28	39N	110	13E	624784	24819	171	35	50	31	14	49	-8	1	-8	12	2.697			

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 04018-650

PASS 54D FWD 9AUG64

FRAME EPHMERIS MISSION 1089-2

ID 27

LIST DATE 07MAY65 PAGE 14

FRM	Z TIME	DTIM	CAMERA	NADIR	FORMAT	CENTER	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI	SEC	MILS	DEG MIN	DEG MIN	MIN DEG	LONG	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
46	8 48 37.268	2410	78 2.81N	66 39.62E	69 39N	67 20E	656973	24741	150 39	35 0	14 25	0 6	0 38	2.607
47	8 48 39.678	2410	69 54.28N	66 53.55E	69 30N	67 34E	656464	24742	150 53	35 6	14 26	0 6	0 38	2.607
48	8 48 42.082	2405	69 45.75N	67 7.26E	69 22N	67 47E	655958	24743	151 7	35 12	14 28	0 6	0 37	2.613
49	8 48 44.478	2405	69 37.02E	67 34.05E	69 13N	68 0E	655458	24745	151 21	35 18	14 30	0 6	0 37	2.623
50	8 48 46.883	2395	69 28.66N	67 47.13E	68 4N	68 13E	654957	24746	151 35	35 24	14 32	0 6	0 37	2.613
51	8 48 49.277	2395	69 20.11N	67 47.13E	68 56N	68 26E	654461	24747	151 48	35 31	14 33	0 6	0 37	2.623
52	8 48 51.673	2395	69 11.54N	68 0.05E	68 47N	68 38E	653967	24748	152 1	35 37	14 34	0 6	0 35	2.623
53	8 48 54.067	2395	69 2.95N	68 12.78E	68 38N	68 50E	653476	24749	152 14	35 43	14 36	0 6	0 34	2.623
54	8 48 56.463	2395	68 54.34N	68 25.35E	68 38N	69 2E	652987	24750	152 27	35 49	14 37	0 6	0 33	2.623
55	8 48 58.854	2391	68 45.73N	68 37.72E	68 21N	69 14E	652502	24751	152 40	35 55	14 38	0 6	0 32	2.628
56	8 49 1.242	2389	68 37.11N	68 49.91E	68 12N	69 26E	652028	24753	152 52	36 1	14 39	0 6	0 31	2.629
57	8 49 3.633	2390	68 28.47N	69 1.96E	68 4N	69 37E	651539	24754	153 5	36 7	14 39	0 6	0 31	2.629
58	8 49 6.022	2390	68 19.81N	69 13.84E	67 55N	69 49E	651062	24755	153 17	36 13	14 40	0 6	0 32	2.629
59	8 49 8.407	2385	68 11.16N	69 25.53E	67 46N	69 0E	650588	24756	153 29	36 20	14 41	0 6	0 30	2.634
60	8 49 10.782	2375	68 2.53N	69 37.03E	67 37N	70 11E	650118	24757	153 40	36 26	14 42	0 6	0 29	2.646
61	8 49 13.162	2380	67 53.86N	69 48.41E	67 29N	70 22E	649650	24758	153 52	36 32	14 43	0 6	0 28	2.640
62	8 49 15.542	2380	67 45.18N	69 59.63E	67 20N	70 33E	649184	24759	154 4	36 38	14 44	0 6	0 27	2.640
63	8 49 17.923	2380	67 36.48N	70 10.72E	67 11N	70 44E	648721	24760	154 15	36 44	14 45	0 6	0 26	2.640
64	8 49 20.298	2375	67 27.79N	70 21.63E	67 3N	70 54E	648261	24761	154 26	36 50	14 46	0 6	0 25	2.646
65	8 49 22.673	2375	67 19.08N	70 32.41E	66 54N	71 5E	647784	24762	154 37	36 55	14 47	0 6	0 24	2.646
66	8 49 25.042	2370	67 10.38N	70 43.02E	66 45N	71 15E	647351	24764	154 48	37 1	14 48	0 6	0 24	2.651
67	8 49 27.412	2370	67 1.67N	70 53.51E	66 36N	71 25E	646900	24765	154 59	37 7	14 49	0 6	0 23	2.651
68	8 49 29.782	2370	66 52.94N	71 3.87E	66 27N	71 35E	646451	24766	155 9	37 13	14 50	0 6	0 22	2.657
69	8 49 32.147	2365	66 44.21N	71 14.07E	66 19N	71 45E	646006	24767	155 20	37 19	14 50	0 6	0 22	2.657
70	8 49 34.518	2370	66 35.46N	71 24.17E	66 10N	71 54E	645562	24768	155 30	37 25	14 51	0 6	0 21	2.661
71	8 49 36.877	2360	66 26.73N	71 34.10E	66 1N	72 4E	645124	24769	155 40	37 31	14 51	0 6	0 21	2.661
72	8 49 39.238	2361	66 17.99N	71 43.91E	65 52N	72 13E	644687	24771	155 50	37 37	14 52	0 6	0 19	2.658
73	8 49 41.603	2364	66 9.22N	71 53.62E	65 44N	72 23E	644254	24772	155 6	37 48	14 53	0 6	0 18	2.661
74	8 49 43.968	2365	66 0.43N	72 3.22E	65 35N	72 32E	643819	24773	155 18	37 54	14 53	0 6	0 18	2.667
75	8 49 46.323	2356	65 51.67N	72 12.66E	65 26N	72 41E	643391	24774	155 28	37 54	14 53	0 6	0 17	2.667
76	8 49 48.688	2364	65 42.87N	72 22.02E	65 17N	72 50E	642964	24774	155 30	38 0	14 53	0 6	0 16	2.658
77	8 49 51.042	2355	65 34.09N	72 31.23E	65 8N	72 59E	642541	24775	155 39	38 5	14 54	0 6	0 16	2.668
78	8 49 53.397	2355	65 25.30N	72 40.34E	65 0N	73 8E	642121	24776	155 48	38 11	14 54	0 6	0 16	2.668
79	8 49 55.752	2355	65 16.50N	72 49.33E	64 51N	73 8E	641703	24777	155 58	38 17	14 54	0 6	0 15	2.668
80	8 49 58.112	2360	65 7.66N	72 58.25E	64 42N	73 17E	641287	24778	155 7	38 22	14 54	0 6	0 15	2.662
81	8 50 0.463	2350	64 58.86N	73 7.02E	64 33N	73 25E	640875	24779	157 16	38 28	14 53	0 6	0 14	2.674
82	8 50 2.813	2355	64 50.05N	73 15.68E	64 24N	73 34E	640466	24780	157 25	38 34	14 53	0 6	0 14	2.668
83	8 50 5.167	2355	64 41.28N	73 24.27E	64 16N	73 42E	640058	24781	157 34	38 39	14 53	0 6	0 13	2.679
84	8 50 7.513	2345	64 32.39N	73 32.27E	64 7N	73 59E	639655	24782	157 42	38 45	14 53	0 6	0 13	2.679
85	8 50 9.857	2345	64 23.56N	73 41.07E	63 58N	74 7E	639254	24783	157 51	38 51	14 53	0 6	0 13	2.679
86	8 50 12.202	2345	64 14.73N	73 49.33E	63 49N	74 15E	638856	24784	157 59	38 56	14 53	0 6	0 12	2.679
87	8 50 14.548	2345	64 5.88N	73 57.50E	63 40N	74 23E	638461	24784	158 8	39 2	14 53	0 6	0 11	2.679
88	8 50 16.888	2340	63 57.05N	74 5.56E	63 31N	74 31E	638069	24785	158 16	39 7	14 53	0 6	0 11	2.685
89	8 50 19.228	2340	63 48.21N	74 13.52E	63 23N	74 39E	637676	24786	158 24	39 13	14 53	0 6	0 10	2.685
90	8 50 21.567	2340	63 39.35N	74 21.40E	63 14N	74 46E	637293	24787	158 32	39 18	14 54	0 6	0 10	2.685

TOP SECRET

HANDLE VIA
TMI FMT JK FVHNF

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 54D FWD 9AUG64 FRAME EPHEMERIS MISSION 1009-2 ID 27 LIST DATE 07MAY65 PAGE 19

FRM	Z TIME	DTIM	CAMERA	NADIR	FORMAT	CENTER	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI SEC	MILLS	DEG MIN	DEG MIN	DEG MIN	DEG MIN	DEG MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
271	8 57 16.683	2300	36 18.047N	85 56.28E	35 52N	86 4E	614917	24842	170 22	50 12	14 59	0 11	-0 16	2.732
272	8 57 18.979	2296	36 9.21N	85 58.22E	35 43N	86 6E	615074	24842	170 24	50 14	14 56	0 11	-0 15	2.737
273	8 57 21.282	2304	35 59.91N	86 0.16E	35 34N	86 8E	615234	24842	170 26	50 15	14 55	0 11	-0 14	2.727
274	8 57 23.582	2300	35 50.62N	86 2.08E	35 24N	86 10E	615397	24841	170 28	50 16	14 54	0 11	-0 13	2.732
275	8 57 25.883	2300	35 41.03N	86 3.99E	35 15N	86 12E	615564	24841	170 29	50 17	14 52	0 11	-0 13	2.732
276	8 57 28.183	2300	35 32.04N	86 5.09E	35 6N	86 13E	615734	24840	170 31	50 18	14 50	0 11	-0 12	2.732
277	8 57 30.482	2300	35 22.75N	86 7.79E	34 57N	86 15E	615907	24840	170 33	50 20	14 49	0 11	-0 11	2.732
278	8 57 32.782	2300	35 13.047N	86 9.67E	34 47N	86 17E	616084	24840	170 35	50 21	14 47	0 11	-0 10	2.732
279	8 57 35.082	2300	35 4.18N	86 11.54E	34 38N	86 19E	616264	24839	170 36	50 22	14 45	0 11	-0 10	2.732
280	8 57 37.382	2305	34 54.086N	86 13.41E	34 29N	86 21E	616447	24839	170 38	50 23	14 43	0 11	-0 9	2.726
281	8 57 39.692	2305	34 45.55N	86 15.27E	34 20N	86 23E	616635	24838	170 40	50 24	14 41	0 11	-0 9	2.726
282	8 57 41.997	2305	34 36.24N	86 17.12E	34 10N	86 24E	616825	24838	170 42	50 25	14 39	0 11	-0 8	2.726
283	8 57 44.298	2300	34 26.94N	86 18.96E	34 1N	86 26E	617018	24838	170 43	50 26	14 37	0 11	-0 7	2.732
284	8 57 46.607	2310	34 17.61N	86 20.80E	33 92N	86 28E	617216	24837	170 45	50 27	14 35	0 11	-0 6	2.728
285	8 57 48.912	2305	34 8.29N	86 22.62E	33 43N	86 30E	617416	24837	170 47	50 28	14 35	0 10	-0 6	2.726
286	8 57 51.223	2310	33 58.95N	86 24.44E	33 33N	86 31E	617620	24836	170 48	50 28	14 31	0 10	-0 6	2.728
287	8 57 53.527	2305	33 49.64N	86 26.25E	33 24N	86 33E	617828	24836	170 50	50 29	14 29	0 10	-0 5	2.726
288	8 57 55.832	2305	33 40.32N	86 28.04E	33 15N	86 35E	618038	24835	170 52	50 30	14 28	0 10	-0 4	2.728
289	8 57 58.143	2310	33 30.98N	86 29.84E	33 5N	86 37E	618253	24835	170 53	50 31	14 27	0 10	-0 4	2.726
290	8 58 0.457	2315	33 21.62N	86 31.62E	32 56N	86 39E	618470	24834	170 55	50 32	14 26	0 10	-0 3	2.714
291	8 58 2.769	2311	33 12.27N	86 33.40E	32 47N	86 40E	618692	24834	170 57	50 32	14 25	0 12	-0 3	2.719
292	8 58 5.087	2319	33 2.90N	86 35.17E	32 37N	86 42E	618917	24833	170 58	50 33	14 25	0 12	-0 1	2.709
293	8 58 7.397	2310	32 53.55N	86 36.93E	32 28N	86 44E	619144	24833	171 0	50 34	14 24	0 12	0 1	2.728
294	8 58 9.707	2310	32 44.021N	86 38.68E	32 19N	86 46E	619376	24832	171 1	50 34	14 24	0 13	0 1	2.728
295	8 58 12.022	2315	32 34.485N	86 40.43E	32 9N	86 47E	619611	24832	171 1	50 35	14 24	0 13	0 1	2.714
296	8 58 14.343	2320	32 25.046N	86 42.17E	32 0N	86 49E	619859	24831	171 1	50 35	14 24	0 14	0 1	2.708
297	8 58 16.657	2315	32 16.10N	86 43.90E	31 51N	86 51E	620091	24831	171 1	50 36	14 24	0 14	0 1	2.714
298	8 58 18.974	2316	32 6.73N	86 45.63E	31 41N	86 52E	620337	24830	171 1	50 36	14 24	0 12	0 1	2.713
299	8 58 21.288	2315	31 57.36N	86 47.34E	31 32N	86 54E	620585	24830	171 1	50 37	14 24	0 11	0 1	2.714
300	8 58 23.612	2324	31 47.96N	86 49.05E	31 22N	86 56E	620838	24829	171 1	50 37	14 24	0 11	0 1	2.704
301	8 58 25.933	2320	31 38.57N	86 50.76E	31 13N	86 57E	621094	24828	171 1	50 38	14 25	0 9	0 1	2.708
302	8 58 28.252	2320	31 29.18N	86 52.45E	31 3N	86 59E	621353	24828	171 1	50 38	14 26	0 8	0 1	2.708
303	8 58 30.572	2325	31 19.79N	86 54.14E	30 54N	87 1E	621616	24827	171 1	50 38	14 26	0 6	0 1	2.708
304	8 58 32.897	2325	31 10.38N	86 55.82E	30 45N	87 2E	621883	24827	171 1	50 39	14 27	0 4	0 1	2.708
305	8 58 35.218	2320	31 0.99N	86 57.49E	30 35N	87 4E	622152	24826	171 1	50 39	14 29	0 4	0 1	2.708
306	8 58 37.537	2320	30 51.60N	86 59.16E	30 26N	87 5E	622426	24825	171 1	50 39	14 29	0 3	0 1	2.708
307	8 58 39.862	2325	30 42.19N	87 0.82E	30 16N	87 7E	622703	24825	171 2	50 39	14 30	0 2	0 1	2.702
308	8 58 42.192	2330	30 32.75N	87 2.048E	30 7N	87 9E	622984	24824	171 2	50 40	14 31	0 1	0 1	2.697
309	8 58 44.518	2325	30 23.34N	87 4.12E	29 57N	87 10E	623268	24823	171 2	50 40	14 32	0 1	0 1	2.702
310	8 58 46.843	2325	30 13.92N	87 5.76E	29 48N	87 12E	623556	24823	171 2	50 40	14 34	0 1	0 1	2.702
311	8 58 49.168	2326	30 4.51N	87 7.40E	29 38N	87 13E	623847	24822	171 2	50 40	14 34	0 2	0 1	2.701
312	8 58 51.503	2335	29 55.05N	87 9.03E	29 29N	87 15E	624142	24821	171 2	50 40	14 36	0 3	0 1	2.691
313	8 58 53.833	2330	29 45.62N	87 10.65E	29 19N	87 17E	624440	24821	171 2	50 40	14 37	0 4	0 1	2.697
314	8 58 56.167	2334	29 36.16N	87 12.27E	29 10N	87 18E	624742	24820	171 3	50 40	14 38	0 5	0 1	2.692
315	8 58 58.497	2330	29 26.73N	87 13.87E	29 0N	87 20E	625048	24819	171 3	50 40	14 40	0 5	0 1	2.697

TOP SECRET

HANDLE VIA
TALENT KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 04818-65

PASS 54D FWD 9AUG64

FRAME EPHEMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65 PAGE 20

FRM	Z TIME		DTIM	CAMERA		NADR		FORMAT		CENTER		ALTITUDE		VELOC		AZIMUTH		SUN/		PITCH		ROLL		YAW		SCAN RATE
	HR	MI		SEC	MILS	DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	
316	8	59	0.832	2335	29	17.27N	87	15.48E	28	51N	87	21E	625570	24819	171	34	50	48	14	41	-0	6	0	19	2.691	
317	8	59	3.167	2335	29	17.81N	87	17.08E	28	41N	87	23E	626670	24818	171	35	50	48	14	43	-0	6	0	19	2.691	
318	8	59	5.508	2340	28	58.33N	87	18.67E	28	32N	87	24E	626987	24817	171	36	50	48	14	44	-0	7	0	19	2.685	
319	8	59	7.843	2335	28	48.87N	87	20.26E	28	22N	87	26E	626307	24817	171	38	50	39	14	46	-0	7	0	19	2.691	
320	8	59	10.178	2335	28	39.41N	87	21.83E	28	13N	87	28E	626631	24816	171	39	50	39	14	47	-0	7	0	19	2.685	
321	8	59	12.518	2340	28	29.93N	87	23.41E	28	3N	87	29E	626957	24815	171	40	50	39	14	49	-0	7	0	19	2.685	
322	8	59	14.857	2340	28	20.45N	87	24.97E	27	54N	87	31E	627289	24814	171	42	50	39	14	50	-0	7	0	18	2.690	
323	8	59	17.193	2336	28	10.99N	87	26.53E	27	44N	87	32E	627623	24814	171	43	50	38	14	51	-0	7	0	17	2.686	
324	8	59	19.532	2339	28	1.51N	87	28.09E	27	35N	87	34E	627960	24813	171	44	50	38	14	52	-0	6	0	16	2.679	
325	8	59	21.877	2345	27	52.01N	87	29.64E	27	25N	87	35E	628302	24812	171	45	50	37	14	53	-0	6	0	14	2.679	
326	8	59	24.223	2345	27	42.50N	87	31.19E	27	15N	87	37E	628648	24811	171	47	50	37	14	53	-0	6	0	13	2.685	
327	8	59	26.563	2340	27	33.02N	87	32.72E	27	6N	87	39E	628996	24810	171	48	50	36	14	55	-0	5	0	11	2.679	
328	8	59	28.912	2350	27	23.50N	87	34.26E	26	56N	87	40E	629349	24810	171	49	50	36	14	56	-0	4	0	11	2.674	
329	8	59	31.263	2350	27	13.97N	87	35.79E	26	47N	87	42E	629707	24809	171	50	50	35	14	57	-0	4	0	10	2.674	
330	8	59	33.617	2355	27	4.43N	87	37.32E	26	37N	87	43E	630068	24808	171	52	50	35	14	58	-0	3	0	9	2.668	
331	8	59	35.962	2345	26	54.92N	87	38.83E	26	28N	87	45E	630431	24807	171	53	50	34	14	59	-0	2	0	8	2.679	
332	8	59	38.317	2355	26	45.38N	87	40.35E	26	18N	87	46E	630800	24806	171	54	50	33	15	0	-0	2	0	7	2.668	
333	8	59	40.673	2355	26	35.83N	87	41.86E	26	9N	87	48E	631172	24805	171	55	50	32	15	0	-0	2	0	6	2.668	
334	8	59	43.027	2355	26	26.28N	87	43.36E	25	59N	87	49E	631547	24805	171	57	50	31	15	1	-0	2	0	3	2.668	
335	8	59	45.383	2355	26	16.74N	87	44.86E	25	49N	87	51E	631926	24804	171	58	50	31	15	2	-0	0	0	3	2.668	
336	8	59	47.742	2360	26	7.17N	87	46.36E	25	40N	87	53E	632310	24803	171	59	50	30	15	3	-0	0	0	3	2.662	

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 5SD FWD 9AUG64

FRAME EPHEMERIS MISSION 1809-2

ID 27

LIST DATE 07MAY65 PAGE 21

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	RATE
1	10	18	55.839	8	71	19.62N	41	53.49E	661056	24731	148	20	34	3	15	1.806
2	10	18	59.317	3479	71	7.68N	41	56.35E	660296	24733	148	43	34	13	15	1.806
3	10	19	2.103	2785	70	57.93N	42	14.31E	659691	24735	149	1	34	20	15	2.256
4	10	19	4.702	2600	70	48.88N	42	30.80E	659129	24736	149	18	34	27	15	2.417
5	10	19	7.228	2525	70	40.87N	42	46.58E	658586	24737	149	34	34	34	15	2.488
6	10	19	9.719	2491	70	31.35N	43	1.91E	657528	24738	149	50	34	40	15	2.522
7	10	19	12.163	2464	70	22.70N	43	16.84E	658053	24740	150	5	34	47	15	2.558
8	10	19	14.638	2455	70	14.08N	43	31.51E	657089	24741	150	20	34	53	15	2.559
9	10	19	17.082	2445	70	5.43N	43	45.91E	656493	24742	150	35	34	59	15	2.570
10	10	19	19.522	2440	69	56.80N	44	8.07E	655982	24743	150	49	35	6	15	2.575
11	10	19	21.952	2430	69	48.18N	44	13.98E	655474	24744	151	3	35	12	15	2.586
12	10	19	24.377	2425	69	39.57N	44	27.66E	654970	24746	151	17	35	18	15	2.591
13	10	19	26.803	2425	69	30.93N	44	41.15E	653972	24748	151	31	35	25	15	2.596
14	10	19	29.223	2420	69	22.29N	44	54.42E	653477	24749	151	58	35	37	15	2.596
15	10	19	31.638	2415	69	13.65N	45	7.49E	652986	24750	152	11	35	43	15	2.602
16	10	19	34.053	2415	69	4.99N	45	20.37E	652499	24751	152	24	35	49	15	2.613
17	10	19	36.457	2405	68	56.35N	45	33.03E	652015	24753	152	37	35	56	15	2.613
18	10	19	38.862	2405	68	47.69N	45	45.51E	651533	24754	152	49	36	2	15	2.611
19	10	19	41.269	2406	68	39.01N	45	57.84E	651054	24755	153	2	36	8	15	2.614
20	10	19	43.673	2404	68	30.33N	46	9.99E	650578	24756	153	14	36	14	15	2.622
21	10	19	46.068	2399	68	21.65N	46	21.93E	649105	24757	153	26	36	20	15	2.619
22	10	19	48.468	2399	68	12.95N	46	33.73E	648635	24758	153	38	36	26	15	2.623
23	10	19	50.862	2395	68	4.25N	46	45.36E	648168	24759	153	50	36	32	15	2.623
24	10	19	53.258	2395	67	55.53N	46	56.83E	647705	24760	154	1	36	38	15	2.629
25	10	19	55.647	2390	67	46.81N	47	8.15E	647244	24761	154	13	36	44	15	2.629
26	10	19	58.037	2390	67	38.08N	47	19.29E	646785	24762	154	24	36	50	15	2.629
27	10	20	0.428	2390	67	29.34N	47	30.30E	646329	24764	154	35	36	56	15	2.629
28	10	20	2.817	2385	67	20.58N	47	41.17E	645872	24765	154	46	37	2	15	2.634
29	10	20	5.202	2385	67	11.82N	47	51.88E	645427	24766	154	57	37	8	15	2.634
30	10	20	7.582	2380	67	3.87N	48	2.43E	645097	24767	155	8	37	14	15	2.640
31	10	20	9.968	2385	66	54.29N	48	12.87E	644657	24768	155	18	37	20	15	2.640
32	10	20	12.348	2380	66	45.51N	48	23.16E	644222	24771	155	49	37	38	15	2.646
33	10	20	14.723	2375	66	36.74N	48	33.50E	643790	24772	155	59	37	44	15	2.646
34	10	20	17.098	2375	66	27.96N	48	43.31E	643361	24773	155	9	37	50	15	2.651
35	10	20	19.468	2370	66	19.18N	48	53.18E	642934	24774	156	19	37	57	15	2.651
36	10	20	21.843	2370	66	10.37N	49	1.29E	642509	24775	156	28	38	1	15	2.651
37	10	20	24.212	2370	66	1.58N	49	12.58E	642088	24776	156	38	38	7	15	2.651
38	10	20	26.582	2370	65	52.76N	49	22.89E	641670	24777	156	47	38	13	15	2.656
39	10	20	28.952	2370	65	43.94N	49	31.49E	641254	24778	156	57	38	19	15	2.657
40	10	20	31.318	2366	65	35.12N	49	40.77E	640844	24779	157	6	38	24	15	2.658
41	10	20	33.683	2364	65	26.29N	49	49.92E	640434	24780	157	15	38	30	15	2.662
42	10	20	36.048	2365	65	17.45N	49	58.97E	640026	24781	157	24	38	36	15	2.657
43	10	20	38.402	2355	65	8.64N	50	7.87E	639618	24782	157	33	38	42	15	2.657
44	10	20	40.763	2360	64	59.88N	50	16.69E	639210	24783	157	42	38	48	15	2.657
45	10	20	43.127	2365	64	50.93N	50	25.42E	638802	24784	157	51	38	54	15	2.657

TOP SECRET

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED
FRAME EPHEMERIS
MISSION 1809-2

TOP SECRET
SPECIAL HANDLING REQUIRED
ID 27
LIST DATE 07MAY65
PAGE 22

PASS	5SD	FWD	9AUG64	FRM	Z TIME	DTIM	CAMERA	FORMAT	CENTER	ALITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN	
HR	MI	SEC	MILS	DEG	LAT	DEG	MIN	MIN	LONG	FEET	F/S	DEG	MI	DEG	MIN	DEG	RATE	
46	10	20	45.487	2360	64	42.07N	50	34.03E	64	16N	0E	639622	24782	157	33	38	44	2.662
47	10	20	47.843	2355	64	33.22N	50	42.53E	64	7N	0E	639221	24783	157	41	38	47	2.668
48	10	20	50.197	2355	64	24.35N	50	50.93E	63	58N	17E	638823	24784	157	50	38	53	2.668
49	10	20	52.553	2355	64	15.48N	50	59.23E	63	49N	17E	638823	24784	157	59	38	58	2.668
50	10	20	54.907	2355	64	6.60N	51	7.44E	63	40N	17E	638823	24784	157	59	39	4	2.668
51	10	20	57.259	2351	63	57.73N	51	15.55E	63	32N	14E	637644	24786	158	15	39	9	2.679
52	10	20	59.612	2354	63	48.83N	51	23.57E	63	23N	14E	637257	24787	158	24	39	15	2.674
53	10	21	1.962	2350	63	39.94N	51	31.48E	63	14N	14E	636873	24788	158	32	39	21	2.679
54	10	21	4.308	2345	63	31.06N	51	39.30E	63	5N	11E	636492	24789	158	40	39	26	2.679
55	10	21	6.652	2345	63	22.17N	51	47.03E	62	56N	11E	636113	24790	158	48	39	32	2.679
56	10	21	9.002	2350	63	13.26N	51	54.68E	62	47N	18E	635737	24791	158	56	39	37	2.674
57	10	21	11.353	2350	63	4.34N	52	2.26E	62	38N	26E	635363	24793	159	4	39	43	2.679
58	10	21	13.697	2345	62	55.42N	52	9.74E	62	29N	33E	634993	24793	159	11	39	48	2.685
59	10	21	16.032	2335	62	46.54N	52	17.10E	62	20N	40E	634626	24793	159	19	39	53	2.685
60	10	21	18.372	2340	62	37.63N	52	24.40E	62	11N	47E	634262	24794	159	26	39	59	2.685
61	10	21	20.712	2340	62	28.71N	52	31.62E	62	2N	54E	633901	24795	159	34	40	4	2.685
62	10	21	23.053	2340	62	19.79N	52	38.77E	61	54N	1E	633542	24796	159	41	40	10	2.691
63	10	21	25.388	2345	62	10.87N	52	45.82E	61	45N	8E	633186	24797	159	48	40	15	2.685
64	10	21	27.728	2340	62	1.93N	52	52.02E	61	36N	15E	632832	24798	159	56	40	20	2.691
65	10	21	30.067	2340	61	52.99N	52	59.74E	61	27N	22E	632481	24798	160	3	40	26	2.691
66	10	21	32.402	2335	61	44.05N	53	6.57E	61	18N	28E	632133	24799	160	10	40	31	2.695
67	10	21	34.733	2331	61	35.12N	53	13.32E	61	9N	35E	631790	24800	160	17	40	36	2.686
68	10	21	37.072	2339	61	26.16N	53	20.03E	61	0N	42E	631447	24801	160	24	40	42	2.691
69	10	21	39.407	2335	61	17.28N	53	26.65E	60	51N	48E	631107	24802	160	31	40	47	2.691
70	10	21	41.742	2335	61	8.24N	53	33.21E	60	42N	54E	630769	24803	160	37	40	52	2.691
71	10	21	44.072	2330	60	59.29N	53	39.68E	60	33N	1E	630436	24803	160	44	40	57	2.691
72	10	21	46.407	2335	60	50.31N	53	46.11E	60	24N	7E	629777	24805	160	51	41	2	2.702
73	10	21	48.732	2325	60	41.37N	53	52.44E	60	15N	13E	629452	24806	161	4	41	8	2.697
74	10	21	51.063	2330	60	32.40N	53	58.72E	60	6N	19E	629130	24806	161	10	41	13	2.702
75	10	21	53.388	2325	60	23.44N	54	4.93E	59	57N	25E	628811	24807	161	16	41	18	2.702
76	10	21	55.708	2321	60	14.49N	54	11.06E	59	48N	31E	628495	24808	161	23	41	23	2.704
77	10	21	58.032	2324	60	5.55N	54	17.14E	59	39N	37E	628181	24809	161	29	41	28	2.704
78	10	22	0.354	2321	59	56.57N	54	23.15E	59	30N	43E	627871	24809	161	35	41	33	2.709
79	10	22	2.673	2319	59	47.61N	54	29.10E	59	22N	49E	627563	24810	161	41	41	38	2.708
80	10	22	4.992	2320	59	38.64N	54	34.99E	59	13N	55E	627255	24811	161	47	41	43	2.708
81	10	22	7.313	2320	59	29.67N	54	40.83E	59	4N	0E	626958	24812	161	53	41	48	2.708
82	10	22	9.638	2325	59	20.67N	54	46.62E	58	55N	6E	626655	24812	161	59	41	53	2.708
83	10	22	11.957	2320	59	11.69N	54	52.34E	58	46N	11E	626358	24813	162	5	42	58	2.708
84	10	22	14.277	2320	59	2.70N	54	58.01E	58	37N	17E	626065	24814	162	11	42	3	2.714
85	10	22	16.593	2315	58	53.72N	55	3.62E	58	28N	22E	625773	24814	162	17	42	8	2.708
86	10	22	18.912	2315	58	44.72N	55	9.18E	58	19N	28E	625485	24815	162	22	42	13	2.714
87	10	22	21.228	2315	58	35.73N	55	14.68E	58	10N	33E	625200	24816	162	28	42	18	2.728
88	10	22	23.537	2310	58	26.76N	55	20.11E	58	1N	38E	624918	24816	162	33	42	23	2.714
89	10	22	25.853	2315	58	17.77N	55	25.51E	57	52N	44E	624638	24817	162	39	42	28	2.714
90	10	22	28.167	2315	58	8.77N	55	30.85E	57	43N	49E	624358	24817	162	39	42	33	2.714

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84918-65

PASS 55D FWD 9AUG64

FRAME EPHEMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65

PAGE 23

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	DEG MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
91 10 22	30.478	2310	57 59.78N	55 36.14E	57 34N	55 54E	624361	24818	162 44	42 38	14 58	0 11	-0 14	2.720
92 10 22	32.792	2315	57 58.77N	55 41.38E	57 25N	55 59E	624087	24818	162 50	42 43	14 58	0 10	-0 14	2.714
93 10 22	35.098	2305	57 41.79N	55 46.56E	57 16N	56 4E	623816	24819	162 55	42 48	14 57	0 9	-0 14	2.726
94 10 22	37.407	2310	57 32.79N	55 51.70E	57 7N	56 9E	623548	24820	163 1	42 52	14 57	0 8	-0 14	2.720
95 10 22	39.712	2305	57 23.81N	55 56.78E	56 58N	56 14E	623283	24820	163 6	42 57	14 57	0 7	-0 14	2.726
96 10 22	42.018	2305	57 14.81N	56 1.82E	56 49N	56 18E	623021	24821	163 11	43 2	14 57	0 6	-0 14	2.726
97 10 22	44.327	2310	57 5.79N	56 6.82E	56 40N	56 23E	622761	24822	163 16	43 7	14 57	0 5	-0 14	2.726
98 10 22	46.633	2305	56 56.79N	56 11.77E	56 31N	56 28E	622505	24822	163 21	43 12	14 57	0 4	-0 14	2.726
99 10 22	48.938	2305	56 47.79N	56 16.67E	56 22N	56 33E	622250	24823	163 26	43 16	14 57	0 3	-0 14	2.726
100 10 22	51.242	2305	56 38.78N	56 21.53E	56 13N	56 37E	622000	24823	163 31	43 21	14 56	0 2	-0 14	2.726
101 10 22	53.542	2300	56 29.79N	56 26.34E	56 4N	56 42E	621752	24824	163 36	43 26	14 57	0 2	-0 14	2.732
102 10 22	55.848	2305	56 20.77N	56 31.11E	55 55N	56 47E	621506	24825	163 41	43 30	14 56	0 2	-0 14	2.726
103 10 22	58.152	2305	56 11.75N	56 35.84E	55 46N	56 51E	621264	24825	163 46	43 35	14 56	0 1	-0 14	2.726
104 10 23	0.457	2305	56 2.72N	56 40.53E	55 37N	56 56E	621022	24826	163 51	43 40	14 57	0 2	-0 13	2.726
105 10 23	2.752	2295	55 53.73N	56 45.16E	55 28N	56 0E	620788	24826	163 56	43 44	14 57	0 3	-0 13	2.738
106 10 23	5.053	2300	55 44.71N	56 49.77E	55 19N	56 5E	620554	24827	164 1	43 49	14 57	0 4	-0 13	2.732
107 10 23	7.353	2300	55 35.70N	56 54.33E	55 10N	56 9E	620323	24827	164 5	43 54	14 57	0 5	-0 13	2.732
108 10 23	9.648	2296	55 26.69N	56 58.84E	55 1N	56 13E	620095	24828	164 10	43 58	14 57	0 6	-0 12	2.737
109 10 23	11.947	2299	55 17.67N	57 3.32E	54 52N	56 18E	619870	24829	164 15	44 3	14 57	0 6	-0 12	2.733
110 10 23	14.252	2305	55 8.62N	57 7.78E	54 43N	56 22E	619647	24829	164 19	44 7	14 57	0 7	-0 11	2.726
111 10 23	16.553	2300	54 59.58N	57 12.18E	54 34N	56 26E	619427	24830	164 24	44 12	14 57	0 7	-0 11	2.732
112 10 23	18.853	2295	54 41.52N	57 16.55E	54 15N	56 35E	619211	24830	164 28	44 16	14 58	0 7	-0 11	2.738
113 10 23	21.147	2295	54 23.49N	57 20.88E	54 6N	56 39E	618996	24831	164 33	44 20	14 58	0 7	-0 11	2.738
114 10 23	23.442	2295	54 5.40N	57 25.17E	54 5N	56 43E	618786	24831	164 37	44 25	14 58	0 7	-0 10	2.744
115 10 23	25.732	2290	54 14.44N	57 29.41E	53 57N	56 47E	618579	24832	164 42	44 29	14 58	0 8	-0 10	2.738
116 10 23	28.032	2300	54 4.40N	57 33.64E	53 48N	56 51E	618373	24832	164 46	44 34	14 58	0 7	-0 10	2.732
117 10 23	30.328	2296	53 56.36N	57 37.82E	53 39N	56 55E	618171	24833	164 50	44 38	14 58	0 8	-0 9	2.737
118 10 23	32.622	2294	53 47.34N	57 41.97E	53 30N	56 59E	617972	24833	164 55	44 42	14 59	0 9	-0 8	2.739
119 10 23	34.912	2295	53 38.29N	57 46.16E	53 21N	56 59E	617776	24834	164 59	44 47	14 59	0 9	-0 8	2.744
120 10 23	37.207	2295	53 29.26N	57 50.40E	53 12N	56 3E	617582	24834	165 3	44 51	14 59	0 9	-0 8	2.738
121 10 23	39.497	2290	53 20.21N	57 54.68E	53 3N	56 7E	617391	24834	165 7	44 55	15 0	0 10	-0 7	2.744
122 10 23	41.792	2295	53 11.17N	57 58.91E	52 54N	56 11E	617204	24835	165 11	45 0	15 0	0 9	-0 7	2.738
123 10 23	44.082	2290	53 2.11N	58 3.19E	52 45N	56 15E	617019	24835	165 15	45 4	15 1	0 9	-0 6	2.744
124 10 23	46.377	2295	52 53.08N	58 10.05E	52 36N	56 19E	616836	24836	165 20	45 8	15 1	0 9	-0 6	2.738
125 10 23	48.663	2286	52 44.02N	58 15.94E	52 27N	56 23E	616658	24836	165 24	45 12	15 1	0 9	-0 6	2.749
126 10 23	50.957	2294	52 34.94N	58 21.78E	52 18N	56 26E	616482	24837	165 28	45 16	15 2	0 9	-0 4	2.739
127 10 23	53.243	2286	52 25.94N	58 27.68E	52 9N	56 30E	616309	24837	165 32	45 20	15 3	0 9	-0 4	2.749
128 10 23	55.532	2289	52 16.88N	58 33.58E	52 0N	56 34E	616139	24838	165 35	45 25	15 3	0 9	-0 4	2.745
129 10 23	57.822	2290	52 7.82N	58 39.48E	51 51N	56 38E	615972	24838	165 39	45 29	15 3	0 9	-0 3	2.744
130 10 24	0.113	2291	51 58.77N	58 45.38E	51 42N	56 41E	615807	24838	165 43	45 33	15 3	0 9	-0 3	2.743
131 10 24	2.402	2289	51 49.72N	58 51.28E	51 33N	56 45E	615645	24839	165 47	45 37	15 3	0 9	-0 3	2.745
132 10 24	4.688	2285	51 40.65N	58 57.18E	51 23N	56 49E	615487	24839	165 51	45 41	15 4	0 8	-0 3	2.750
133 10 24	6.978	2290	51 31.62N	58 63.08E	51 14N	56 52E	615331	24839	165 55	45 45	15 4	0 8	-0 3	2.744
134 10 24	9.259	2281	51 22.57N	58 68.98E	51 5N	56 56E	615178	24840	165 58	45 49	15 5	0 8	-0 3	2.755
135 10 24	11.542	2284	51 13.47N	58 74.88E	50 56N	56 59E	615029	24840	166 2	45 53	15 5	0 7	-0 3	2.751

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

MISSION 1809-2

ID 27

LIST DATE 07MAY65 PAGE 24

PASS 550 FWD 9AUG64

FRM	Z TIME	HR MI SEC	DTIM MILS	CAMERA	NADIR	FORMAT	CENTER	ALTITUDE	VELOC	AZINUTH	SUN/	PITCH	ROLL	YAW	SCAN
				LAT	DEG MIN	DEG MIN	DEG MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
136	10	24	13.832	51	13.58N	58	51.09E	614882	24841	166	6	15	-0	-0	2.744
137	10	24	16.122	51	4.42N	58	54.65E	614738	24841	166	10	15	-0	-0	2.744
138	10	24	18.412	58	55.34N	58	58.19E	614597	24841	166	13	15	-0	-0	2.750
139	10	24	20.697	58	46.27N	59	1.69E	614458	24842	166	17	15	-0	-0	2.750
140	10	24	22.982	58	37.28N	59	5.17E	614324	24842	166	20	15	-0	-0	2.749
141	10	24	25.269	58	28.13N	59	8.62E	614192	24842	166	24	15	-0	-0	2.745
142	10	24	27.558	58	19.04N	59	12.06E	614062	24843	166	27	15	-0	-0	2.749
143	10	24	29.844	58	9.96N	59	15.46E	613936	24843	166	31	15	-0	-0	2.750
144	10	24	32.133	49	51.79N	59	22.19E	613813	24844	166	34	15	-0	-0	2.750
145	10	24	34.417	49	42.71N	59	25.52E	613692	24844	166	38	15	-0	-0	2.750
146	10	24	36.702	49	33.63N	59	28.82E	613575	24844	166	41	15	-0	-0	2.750
147	10	24	38.987	49	24.56N	59	32.09E	613461	24844	166	45	15	-0	-0	2.756
148	10	24	41.268	49	15.47N	59	35.35E	613349	24844	166	48	15	-0	-0	2.750
149	10	24	43.553	49	6.38N	59	38.58E	613241	24845	166	51	15	-0	-0	2.750
150	10	24	45.837	49	57.38N	59	41.78E	613135	24845	166	55	15	-0	-0	2.755
151	10	24	48.117	48	48.22N	59	44.96E	613033	24845	166	58	15	-0	-0	2.755
152	10	24	50.398	48	39.13N	59	48.12E	612934	24845	167	1	15	-0	-0	2.751
153	10	24	52.683	48	30.02N	59	51.26E	612837	24846	167	4	15	-0	-0	2.750
154	10	24	54.968	48	20.94N	59	54.37E	612743	24846	167	8	15	-0	-0	2.750
155	10	24	57.247	48	11.84N	59	57.47E	612653	24846	167	11	15	-0	-0	2.750
156	10	24	59.532	48	2.75N	60	3.60E	612565	24846	167	14	15	-0	-0	2.756
157	10	25	1.813	47	35.45N	60	9.63E	612481	24847	167	17	15	-0	-0	2.750
158	10	25	4.098	47	44.55N	60	6.62E	612399	24847	167	20	15	-0	-0	2.750
159	10	25	6.377	47	26.37N	60	12.61E	612321	24847	167	23	15	-0	-0	2.750
160	10	25	8.657	47	17.26N	60	15.58E	612244	24848	167	26	15	-0	-0	2.750
161	10	25	10.934	47	8.16N	60	18.52E	612173	24848	167	29	15	-0	-0	2.761
162	10	25	13.218	47	59.04N	60	21.45E	612104	24848	167	32	15	-0	-0	2.750
163	10	25	15.497	46	49.93N	60	24.36E	612037	24848	167	35	15	-0	-0	2.750
164	10	25	17.782	46	40.88N	60	27.25E	611974	24848	167	38	15	-0	-0	2.755
165	10	25	20.063	46	31.78N	60	30.12E	611913	24848	167	41	15	-0	-0	2.751
166	10	25	22.348	46	22.59N	60	32.97E	611856	24848	167	44	15	-0	-0	2.756
167	10	25	24.627	46	13.45N	60	35.88E	611781	24849	167	47	15	-0	-0	2.750
168	10	25	26.907	46	4.38N	60	38.62E	611702	24849	167	50	15	-0	-0	2.750
169	10	25	29.192	46	55.16N	60	41.42E	611656	24849	167	53	15	-0	-0	2.758
170	10	25	31.482	46	46.02N	60	44.20E	611615	24849	167	56	15	-0	-0	2.750
171	10	25	33.768	46	36.98N	60	46.98E	611576	24849	168	59	15	-0	-0	2.750
172	10	25	36.053	46	27.88N	60	49.68E	611539	24849	168	2	15	-0	-0	2.750
173	10	25	38.332	46	18.68N	60	52.40E	611506	24849	168	7	15	-0	-0	2.750
174	10	25	40.607	46	9.53N	60	55.11E	611477	24849	168	10	15	-0	-0	2.750
175	10	25	42.888	46	0.41N	60	57.79E	611442	24849	168	13	15	-0	-0	2.750
176	10	25	45.173	46	51.26N	61	3.11E	611405	24849	168	15	15	-0	-0	2.750
177	10	25	47.452	46	42.14N	61	5.75E	611388	24849	168	18	15	-0	-0	2.761
178	10	25	49.737	46	32.99N	61		611373	24850	168	21	15	-0	-0	2.751
179	10	25	52.014	46		61				23	15	-0	-0		
180	10	25	54.298	46		61				23	15	-0	-0		

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

FRAME EPHEMERIS

MISSION 1009-2

ID 27

LIST DATE 07MAY65

PAGE 26

PASS 550 FMD 9AUG64

FRM	HR	MI	SEC	DTIM	CAMERA			NADIR			FORMAT CENTER			ALTIMITUDE			VELOC F/S	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN		
					DEG	MIN	LAT	DEG	MIN	LONG	DEG	MIN	LONG	FEET	DEG	MIN								DEG	MIN
226	10	27	39.402	2300	37	30.41N	62	51.49E	37	4N	62	59E	614104	24844	170	7	50	8	15	12	0	11	0	12	2.732
227	10	27	41.692	2290	37	21.17N	62	53.50E	36	54N	63	59E	614239	24844	170	9	50	10	15	11	0	11	0	13	2.744
228	10	27	43.987	2295	37	11.92N	62	55.51E	36	45N	63	5E	614378	24843	170	11	50	12	15	11	0	11	0	14	2.738
229	10	27	46.282	2295	37	1.66N	62	57.51E	36	26N	63	5E	614528	24843	170	13	50	13	15	10	0	10	0	15	2.738
230	10	27	48.577	2295	36	53.40N	62	59.49E	36	36N	63	7E	614664	24843	170	15	50	15	15	10	0	10	0	16	2.738
231	10	27	50.877	2300	36	44.12N	63	1.47E	36	17N	63	9E	614813	24842	170	17	50	16	15	10	0	10	0	17	2.738
232	10	27	53.173	2295	36	34.86N	63	3.44E	36	8N	63	11E	614965	24842	170	19	50	17	15	10	0	9	0	18	2.732
233	10	27	55.473	2300	36	25.57N	63	5.40E	35	59N	63	13E	615119	24842	170	21	50	19	15	10	0	9	0	19	2.732
234	10	27	57.772	2300	36	16.29N	63	7.34E	35	58N	63	15E	615278	24841	170	23	50	20	15	9	0	8	0	19	2.738
235	10	28	0.067	2295	36	7.03N	63	9.28E	35	40N	63	17E	615439	24841	170	26	50	23	15	9	0	7	0	21	2.732
236	10	28	2.367	2300	35	57.74N	63	11.21E	35	31N	63	19E	615605	24841	170	26	50	24	15	8	0	6	0	22	2.737
237	10	28	4.663	2296	35	48.47N	63	13.12E	35	22N	63	22E	615772	24840	170	28	50	25	15	8	0	6	0	22	2.727
238	10	28	6.968	2304	35	39.17N	63	15.04E	35	12N	63	24E	615944	24840	170	30	50	25	15	8	0	6	0	23	2.732
239	10	28	9.268	2300	35	29.88N	63	16.94E	35	3N	63	26E	616119	24839	170	32	50	26	15	8	0	5	0	25	2.732
240	10	28	11.567	2300	35	20.59N	63	18.83E	34	54N	63	28E	616297	24839	170	33	50	28	15	8	0	4	0	25	2.731
241	10	28	13.868	2301	35	11.30N	63	20.71E	34	44N	63	30E	616478	24839	170	35	50	29	15	7	0	3	0	26	2.715
242	10	28	16.183	2314	35	1.095N	63	22.59E	34	35N	63	30E	616665	24838	170	37	50	30	15	7	0	3	0	26	2.715
243	10	28	18.487	2305	34	52.64N	63	24.46E	34	26N	63	31E	616853	24838	170	39	50	31	15	6	0	2	0	27	2.726
244	10	28	20.792	2305	34	43.33N	63	26.32E	34	16N	63	33E	617045	24837	170	40	50	32	15	6	0	1	0	28	2.726
245	10	28	23.098	2305	34	34.01N	63	28.17E	34	7N	63	35E	617241	24837	170	42	50	33	15	6	0	1	0	29	2.726
246	10	28	25.407	2310	34	24.68N	63	30.01E	33	58N	63	37E	617440	24836	170	44	50	34	15	6	0	1	0	29	2.726
247	10	28	27.712	2305	34	15.37N	63	31.84E	33	49N	63	38E	617641	24836	170	45	50	35	15	5	0	1	0	30	2.726
248	10	28	30.022	2310	34	6.03N	63	33.67E	33	39N	63	40E	617847	24836	170	47	50	36	15	5	0	2	0	31	2.720

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS	56A FWD	9AUG64	CAMERA			NADIR			FORMAT CENTER			MISSION	1809-2	ID 27	LIST DATE 07MAY65			PAGE	27		
			FRM	Z TIME	DTIM	DEG	MIN	DEG	MIN	DEG	MIN				DEG	MIN	ALTITUDE			VELOC	DEG
HR	MI	SEC	MILS	MIN	MIN	MIN	MIN	MIN	MIN	MIN	FEET	F/S	MI	MI	MI	MIN	MIN	MIN	MIN	MIN	RATE
1	11	32	47.563	37	18.96N	118	8.03W	38	3N	117	56W	1028104	23925	9	44	-16	27	ND	ND	ND	1.153
2	11	32	53.013	37	48.13N	118	3.45W	38	24N	117	51W	1017737	23931	9	48	-16	11	ND	ND	ND	1.153
3	11	32	57.658	37	58.18N	117	59.51W	38	42N	117	47W	1015721	23935	9	52	-15	57	ND	ND	ND	1.352
4	11	33	2.127	38	15.54N	117	55.67W	38	59N	117	43W	1015782	23939	9	56	-15	44	ND	ND	ND	1.406
5	11	33	6.532	38	32.66N	117	51.85W	39	16N	117	39W	1011872	23943	10	0	-15	31	ND	ND	ND	1.426
6	11	33	10.897	38	49.61N	117	48.03W	39	33N	117	35W	1009981	23947	10	4	-15	18	ND	ND	ND	1.439
7	11	33	15.218	39	6.39N	117	44.20W	39	50N	117	31W	1008109	23952	10	7	-15	5	ND	ND	ND	1.454
8	11	33	19.558	39	23.25N	117	40.32W	40	7N	117	27W	1006231	23956	10	11	-14	52	ND	ND	ND	1.448
9	11	33	23.862	39	39.96N	117	36.43W	40	23N	117	24W	1004368	23960	10	15	-14	39	ND	ND	ND	1.468
10	11	33	28.143	39	56.59N	117	32.52W	40	40N	117	20W	1002517	23964	10	19	-14	26	ND	ND	ND	1.468
11	11	33	32.407	40	13.14N	117	28.58W	40	56N	117	16W	1000674	23968	10	23	-14	13	ND	ND	ND	1.473
12	11	33	36.662	40	29.66N	117	24.61W	41	13N	117	11W	998836	23972	10	27	-14	0	ND	ND	ND	1.477

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS	560 FWD	9AUG64	CAMERA NADIR		FORMAT CENTER		ALTITUDE		VELOC		AZIMUTH		SUN/		PITCH		ROLL		YAW		SCAN
FRM	Z TIME	DTIM	LAT	DEG MIN	LAT	DEG MIN	FEET	F/S	DEG MI	DEG MI	DEG MI	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	DEG MIN	DEG MIN	DEG MIN	DEG MIN	RATE
HR MI	SEC	MILS	MIN	SEC	MIN	SEC			MI	MI	MI	MI	MI	MIN	MIN	MIN	MIN	MIN	MIN	MIN	
91	11 55	32.097	48	43.038N	48	17N	612871	24845	167	3	47	3	15	10	0	10	-0	28	2.762		
92	11 55	34.382	48	34.027N	48	8N	612780	24846	167	6	47	6	15	10	0	10	-0	29	2.750		
93	11 55	36.671	48	25.16N	47	59N	612692	24846	167	9	47	10	15	11	0	11	-0	30	2.744		
94	11 55	38.956	48	16.05N	47	50N	612608	24846	167	13	47	13	15	11	0	11	-0	30	2.750		
95	11 55	41.241	48	6.94N	47	41N	612526	24846	167	16	47	17	15	11	0	11	-0	31	2.750		
96	11 55	43.527	47	57.03N	47	32N	612447	24847	167	19	47	20	15	12	0	11	-0	32	2.749		
97	11 55	45.812	47	48.02N	47	22N	612371	24847	167	22	47	24	15	12	0	11	-0	33	2.750		
98	11 55	48.097	47	39.61N	47	13N	612298	24847	167	25	47	27	15	13	0	11	-0	33	2.755		
99	11 55	50.377	47	30.51N	47	4N	612229	24847	167	28	47	31	15	13	0	11	-0	34	2.755		
100	11 55	52.666	47	21.38N	46	55N	612162	24847	167	31	47	34	15	13	0	10	-0	34	2.745		
101	11 55	54.951	47	12.26N	46	46N	612099	24848	167	34	47	37	15	14	0	8	-0	34	2.750		
102	11 55	57.236	47	3.14N	46	37N	612038	24848	167	37	47	41	15	14	0	8	-0	35	2.756		
103	11 55	59.517	46	54.03N	46	28N	611980	24848	167	40	47	44	15	14	0	7	-0	35	2.756		
104	11 56	1.796	46	44.93N	46	18N	611926	24848	167	43	47	47	15	14	0	6	-0	36	2.756		
105	11 56	4.076	46	35.82N	46	8N	611874	24848	167	46	47	51	15	14	0	5	-0	35	2.750		
106	11 56	6.361	46	26.69N	45	51N	611826	24848	167	49	47	54	15	15	0	5	-0	35	2.756		
107	11 56	8.642	46	17.58N	45	42N	611781	24848	167	52	47	57	15	15	0	4	-0	35	2.750		
108	11 56	10.927	45	8.44N	45	33N	611738	24848	167	55	48	0	15	15	0	4	-0	35	2.762		
109	11 56	13.201	45	59.35N	45	24N	611699	24849	168	57	48	3	15	15	0	4	-0	35	2.758		
110	11 56	15.486	45	50.21N	45	15N	611663	24849	168	6	48	10	15	15	0	4	-0	35	2.762		
111	11 56	17.762	45	41.11N	45	5N	611608	24849	168	9	48	13	15	15	0	4	-0	34	2.756		
112	11 56	20.041	45	31.99N	44	56N	611572	24849	168	11	48	16	15	15	0	3	-0	34	2.756		
113	11 56	22.326	45	22.85N	44	47N	611548	24849	168	14	48	19	15	15	0	3	-0	33	2.761		
114	11 56	24.606	45	13.72N	44	38N	611527	24849	168	17	48	22	15	15	0	3	-0	33	2.757		
115	11 56	26.883	45	4.61N	44	29N	611510	24849	168	19	48	25	15	15	0	3	-0	32	2.762		
116	11 56	29.161	44	55.49N	44	20N	611494	24849	168	22	48	28	15	15	0	3	-0	31	2.756		
117	11 56	31.437	44	46.38N	44	11N	611478	24849	168	25	48	31	15	14	0	3	-0	31	2.773		
118	11 56	33.717	44	37.25N	44	2N	611468	24849	168	27	48	33	15	14	0	3	-0	31	2.757		
119	11 56	35.982	44	28.17N	43	53N	611466	24849	168	30	48	36	15	14	0	3	-0	30	2.768		
120	11 56	38.262	44	19.04N	43	43N	611466	24849	168	32	48	39	15	14	0	3	-0	30	2.762		
121	11 56	40.531	44	8.82N	43	34N	611467	24849	168	35	48	42	15	14	0	3	-0	29	2.762		
122	11 56	42.807	44	0.82N	43	25N	611470	24849	168	38	48	45	15	14	0	3	-0	29	2.762		
123	11 56	45.081	43	51.71N	43	16N	611477	24849	168	40	48	48	15	14	0	3	-0	27	2.762		
124	11 56	47.356	43	42.58N	43	7N	611487	24849	168	43	48	50	15	14	0	3	-0	26	2.762		
125	11 56	49.632	43	33.46N	43	58N	611500	24849	168	45	48	53	15	14	0	3	-0	25	2.762		
126	11 56	51.906	43	24.34N	42	58N	611516	24849	168	48	48	55	15	14	0	3	-0	24	2.758		
127	11 56	54.191	43	15.17N	42	49N	611535	24849	168	49	48	58	15	14	0	3	-0	24	2.756		
128	11 56	56.472	43	6.02N	42	39N											-0	21			

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TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS	61D FWD	9AUG64	CAMERA NADIR		FORMAT CENTER		ALTITUDE VELOC		AZIMUTH SUN/		PITCH		ROLL		YAW		SCAN
FRM	Z TIME	DTIM	LAT	LONG	LAT	LONG	MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	DEG MIN	DEG MIN	RATE
46	19 32 13.947	2340	35 18.71N	73 36.82W	34 52N	73 28W	618543	24833	170	34	51 10	15 12	0 32	-0 31	2.685		
47	19 32 16.282	2335	35 9.28N	73 34.92W	34 43N	73 26W	618753	24833	170	36	51 11	15 11	0 32	-0 31	2.691		
48	19 32 18.617	2335	34 59.85N	73 33.82W	34 33N	73 24W	618966	24832	170	37	51 12	15 11	0 32	-0 30	2.691		

FRAME EPHEMERIS MISSION 1009-2 ID 27 LIST DATE 07MAY65 PAGE 32

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

FRM	2 TIME	DTIM	CAMERA			FORMAT CENTER			ALTITUDE VELOC			AZIMUTH SUN/			PITCH			ROLL			YAW			SCAN			
HR	MI	SEC	DEG	MIN	LONG	DEG	MIN	DEG	MIN	DEG	F/S	DEG	MI	DEG	MI	DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	RAT			
1	1	38	38	30.038	0	20	43.57N	162	28.61W	20	15N	162	23W	655432	24749	172	34	51	13	15	3	0	00	-0	14	1.765	
2	1	38	33.591	3560	0	20	29.14N	162	26.61W	20	1N	162	21W	656258	24747	172	36	51	11	15	5	0	00	-0	15	1.765	
3	1	38	36.498	2980	0	20	17.39N	162	24.09W	19	49N	162	19W	656935	24745	172	37	51	8	15	7	0	00	-0	15	2.167	
4	1	38	39.216	2725	0	20	6.34N	162	23.48W	19	38N	162	18W	657577	24744	172	38	51	6	15	8	0	0	1	-0	16	2.306
5	1	38	41.878	2655	0	19	55.58N	162	22.08W	19	27N	162	16W	658287	24742	172	39	51	4	15	10	0	0	2	-0	17	2.367
6	1	38	44.501	2630	0	19	44.91N	162	20.55W	19	16N	162	15W	658836	24741	172	40	51	2	15	12	0	0	2	-0	18	2.389
7	1	38	47.118	2610	0	19	34.34N	162	19.11W	19	5N	162	13W	659463	24739	172	41	51	0	15	13	0	0	2	-0	18	2.407
8	1	38	49.716	2605	0	19	23.78N	162	17.68W	18	55N	162	12W	660093	24738	172	42	50	57	15	15	0	0	4	-0	19	2.412
9	1	38	52.315	2600	0	19	13.24N	162	16.26W	18	44N	162	9W	660727	24736	172	43	50	55	15	16	0	0	4	-0	19	2.417
10	1	38	54.915	2600	0	19	2.70N	162	14.84W	18	34N	162	9W	661364	24735	172	43	50	53	15	17	0	0	5	-0	20	2.417
11	1	38	57.511	2595	0	18	52.18N	162	13.43W	18	23N	162	7W	662005	24733	172	44	50	50	15	19	0	0	5	-0	21	2.421
12	1	39	0.181	2590	0	18	41.68N	162	12.03W	18	12N	162	6W	662648	24732	172	45	50	48	15	19	0	0	5	-0	22	2.426
13	1	39	2.698	2590	0	18	31.18N	162	10.63W	18	2N	162	4W	663296	24730	172	46	50	46	15	21	0	0	6	-0	22	2.426

PASS 65D FWD 18AUG64
FRAME EPHEMERIS MISSION 1809-2 ID 27 LIST DATE 07MAY65 PAGE 33

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED
FRAME EPHEMERIS
MISSION 1009-2

ID 27

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FRM	HR MI	SEC	DTIM	DEG MIN	DEG LONG	DEG MIN	DEG LONG	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
100	7 32	19.711	2301	56	7.67N	97	12.87E	55	33N	97	29E	15	1	1	2.726
100	7 32	19.711	2301	56	7.67N	97	12.87E	55	33N	97	29E	15	1	1	2.726
101	7 32	22.017	2284	55	58.64N	97	17.47E	55	24N	97	33E	15	0	0	2.726
102	7 32	24.301	2305	55	49.69N	97	17.47E	55	15N	97	38E	15	0	0	2.726
103	7 32	26.605	2305	55	48.65N	97	22.86E	55	6N	97	42E	15	0	0	2.757
104	7 32	28.910	2305	55	31.61N	97	26.61E	54	57N	97	47E	15	0	0	2.732
105	7 32	31.231	2321	55	22.58N	97	31.16E	54	48N	97	51E	15	0	0	2.719
106	7 32	33.511	2279	55	13.55N	97	35.58E	54	39N	97	56E	14	0	0	2.737
107	7 32	35.811	2300	55	4.52N	97	40.81E	54	38N	98	0E	14	0	0	2.758
108	7 32	38.121	2311	54	55.44N	97	44.42E	54	21N	98	5E	14	0	0	2.732
109	7 32	40.417	2296	54	46.42N	97	48.77E	54	12N	98	9E	14	0	0	2.758
110	7 32	42.695	2278	54	37.46N	97	53.85E	54	3N	98	13E	14	0	0	2.719
111	7 32	44.995	2300	54	28.41N	97	57.33E	54	3N	98	17E	14	0	0	2.719
112	7 32	47.307	2311	54	19.31N	98	1.68E	53	45N	98	22E	14	0	0	2.725
113	7 32	49.580	2274	54	10.36N	98	5.76E	53	45N	98	26E	14	0	0	2.744
114	7 32	51.887	2306	54	1.28N	98	9.95E	53	36N	98	30E	15	0	0	2.757
115	7 32	54.177	2290	53	52.26N	98	14.08E	53	27N	98	34E	15	0	0	2.719
116	7 32	56.455	2279	53	43.28N	98	18.15E	53	18N	98	38E	15	0	0	2.744
117	7 32	58.767	2311	53	34.16N	98	22.24E	53	9N	98	42E	15	0	0	2.744
118	7 32	58.767	2290	53	25.13N	98	26.27E	52	59N	98	45E	15	0	0	2.757
119	7 33	1.057	2279	53	16.14N	98	30.24E	52	58N	98	49E	15	0	0	2.744
120	7 33	3.335	2290	53	7.10N	98	34.20E	52	41N	98	53E	15	0	0	2.744
121	7 33	5.625	2290	52	58.06N	98	38.13E	52	32N	98	57E	15	0	0	2.738
122	7 33	7.915	2290	52	49.01N	98	42.03E	52	23N	98	1E	15	0	0	2.738
123	7 33	10.205	2295	52	39.95N	98	45.91E	52	14N	99	4E	15	0	0	2.744
124	7 33	12.500	2295	52	30.87N	98	49.75E	52	5N	99	8E	15	0	0	2.749
125	7 33	14.796	2298	52	21.82N	98	53.56E	51	56N	99	12E	15	0	0	2.745
126	7 33	17.085	2286	52	12.78N	98	57.33E	51	47N	99	15E	15	0	0	2.745
127	7 33	19.371	2289	52	3.72N	99	1.08E	51	38N	99	19E	15	0	0	2.738
128	7 33	21.660	2298	51	54.66N	99	4.80E	51	29N	99	22E	15	0	0	2.758
129	7 33	23.950	2295	51	45.58N	99	8.50E	51	20N	99	26E	15	0	0	2.744
130	7 33	26.245	2285	51	36.53N	99	12.15E	51	11N	99	29E	15	0	0	2.755
131	7 33	28.538	2290	51	27.46N	99	15.78E	51	2N	99	33E	15	0	0	2.745
132	7 33	30.828	2281	51	18.42N	99	19.38E	50	53N	99	36E	15	0	0	2.756
133	7 33	33.118	2289	51	9.34N	99	22.95E	50	43N	99	40E	15	0	0	2.756
134	7 33	35.391	2280	51	0.30N	99	26.49E	50	34N	99	43E	15	0	0	2.758
135	7 33	37.671	2285	50	51.24N	99	30.01E	50	25N	99	43E	15	0	0	2.758

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

SPECIAL HANDLING REQUIRED
FRAME EPHEMERIS
MISSION 1809-2

ID 27

LIST DATE 07MAY65

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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. LAT	DEG MIN. LONG	FEET	F/S	DEG MI.	DEG MI.	DEG MIN	DEG MIN	DEG MIN	RATE
1	0	21.918	66 18.42N	66 43.98E	636784	24787	155 59	37 52	15 15	0 6	0 38	1.873
2	0	25.266	65 57.95N	66 57.59E	635189	24788	156 13	38 1	15 14	0 5	0 38	1.873
3	0	27.971	65 47.88N	67 8.39E	635178	24789	156 24	38 8	15 13	0 5	0 29	2.323
4	0	30.495	65 38.47N	67 18.34E	635398	24790	156 34	38 14	15 13	0 4	0 29	2.488
5	0	32.948	65 29.34N	67 37.12E	635831	24791	156 44	38 21	15 12	0 4	0 29	2.578
6	0	35.351	65 20.33N	67 56.10E	634674	24792	156 54	38 27	15 11	0 4	0 29	2.607
7	0	37.735	65 11.41N	67 46.17E	634322	24792	157 3	38 33	15 11	0 4	0 28	2.634
8	0	40.115	65 2.49N	67 55.10E	633974	24793	157 12	38 39	15 10	0 4	0 27	2.648
9	0	44.855	64 44.78N	68 3.89E	633638	24794	157 21	38 45	15 10	0 4	0 27	2.658
10	0	47.216	64 35.82N	68 21.13E	633289	24795	157 30	38 51	15 9	0 4	0 27	2.662
11	0	49.575	64 26.94N	68 37.89E	632952	24796	157 39	38 57	15 8	0 4	0 26	2.666
12	0	51.926	64 18.09N	68 54.23E	632617	24796	157 48	39 3	15 7	0 4	0 26	2.674
13	0	54.275	64 0.32N	69 5.09E	632287	24797	157 56	39 9	15 7	0 4	0 25	2.679
14	0	56.620	63 51.53N	69 18.81E	631959	24798	158 5	39 15	15 6	0 5	0 25	2.679
15	0	58.968	63 42.65N	69 33.39E	631634	24799	158 13	39 21	15 5	0 5	0 24	2.685
16	0	61.306	63 33.77N	69 48.42E	631313	24800	158 21	39 27	15 5	0 5	0 24	2.679
17	0	63.650	63 24.92N	69 63.09E	630994	24801	158 29	39 33	15 4	0 6	0 24	2.679
18	0	65.985	63 16.04N	69 78.02E	630677	24802	158 37	39 39	15 3	0 6	0 23	2.691
19	0	68.325	62 48.58N	69 93.09E	630364	24803	158 45	39 45	15 2	0 6	0 23	2.691
20	0	70.668	62 40.43N	69 108.29E	629854	24803	159 53	39 51	15 1	0 7	0 22	2.691
21	0	72.995	62 31.71N	69 124.45E	629441	24804	159 1	39 56	15 0	0 7	0 22	2.691
22	0	75.325	62 22.81N	69 140.62E	629044	24804	159 9	40 2	15 0	0 7	0 21	2.697
23	0	77.650	62 13.93N	69 156.79E	628644	24805	159 16	40 8	15 0	0 7	0 21	2.702
24	0	79.976	62 05.05N	69 172.96E	628246	24805	159 24	40 14	15 0	0 8	0 20	2.691
25	0	82.306	61 56.17N	69 189.13E	627846	24806	159 31	40 20	15 0	0 8	0 20	2.702
26	0	84.636	61 47.27N	69 205.30E	627446	24807	159 39	40 25	15 0	0 9	0 20	2.702
27	0	86.968	61 38.37N	69 221.47E	627046	24807	159 46	40 31	15 0	0 9	0 19	2.708
28	0	89.298	61 29.46N	69 237.64E	626646	24808	159 53	40 37	15 0	0 10	0 19	2.708
29	0	91.628	61 20.56N	69 253.81E	626246	24809	160 0	40 42	15 0	0 11	0 18	2.702
30	0	93.958	61 11.68N	69 270.00E	625846	24810	160 7	40 48	15 0	0 11	0 18	2.702
31	0	96.288	61 02.80N	69 286.19E	625446	24811	160 14	40 54	15 0	0 11	0 18	2.702
32	0	98.618	60 53.92N	69 302.38E	625046	24812	160 21	41 0	15 0	0 11	0 17	2.702
33	0	100.948	60 45.04N	69 318.57E	624646	24813	160 28	41 05	15 0	0 12	0 17	2.713
34	0	103.278	60 36.16N	69 334.76E	624246	24814	160 35	41 11	15 0	0 12	0 16	2.715
35	0	105.608	60 27.28N	69 350.95E	623846	24815	160 41	41 16	15 0	0 12	0 16	2.715
36	0	107.938	60 18.40N	69 367.14E	623446	24816	160 48	41 22	15 0	0 13	0 16	2.707
37	0	110.268	60 09.52N	69 383.33E	623046	24817	160 55	41 27	15 0	0 13	0 15	2.714
38	0	112.598	60 00.64N	69 399.52E	622646	24818	161 0	41 33	15 0	0 14	0 15	2.704
39	0	114.928	60 01.76N	69 415.71E	622246	24819	161 1	41 38	15 0	0 14	0 15	2.720
40	0	117.258	60 02.88N	69 431.90E	621846	24820	161 8	41 44	15 0	0 14	0 14	2.720
41	0	119.588	60 04.00N	69 448.09E	621446	24821	161 15	41 49	15 0	0 14	0 14	2.720
42	0	121.918	60 05.12N	69 464.28E	621046	24822	161 22	41 55	15 0	0 15	0 15	2.720
43	0	124.248	60 06.24N	69 480.47E	620646	24823	161 29	42 0	15 0	0 15	0 15	2.720
44	0	126.578	60 07.36N	69 496.66E	620246	24824	161 36	42 6	15 0	0 16	0 15	2.714
45	0	128.908	60 08.48N	69 512.85E	619846	24825	161 43	42 11	15 0	0 16	0 16	2.726

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 8458-65

PASS 78D FWD 18AUG64

FRAME EPHIMERIS MISSION 1889-2

ID 27

LIST DATE 07MAY65 PAGE 48

FRM	Z TIME	DTIM	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 MI	DEG MIN	DEG MIN	DEG MIN	RATE
46	9	2	8.646	2310	59	24.63N	72	25.17E	59	0N	DEG	51
47	9	2	10.950	2305	59	15.71N	72	30.88E	58	51N	72	49E
48	9	2	13.257	2306	59	6.77N	72	36.55E	58	42N	72	55E
49	9	2	15.561	2304	58	57.84N	72	42.15E	58	33N	73	0E
50	9	2	17.870	2310	58	48.88N	72	47.71E	58	24N	73	6E
51	9	2	20.181	2310	58	39.91N	72	53.23E	58	15N	73	11E
52	9	2	22.485	2305	58	30.96N	72	58.67E	58	6N	73	16E
53	9	2	24.780	2295	58	22.04N	73	4.05E	57	57N	73	22E
54	9	2	27.080	2300	58	13.10N	73	9.38E	57	48N	73	27E
55	9	2	29.381	2305	58	4.14N	73	14.67E	57	39N	73	32E
56	9	2	31.686	2300	57	55.17N	73	19.92E	57	30N	73	37E
57	9	2	33.985	2300	57	46.22N	73	25.11E	57	21N	73	42E
58	9	2	36.285	2300	57	37.25N	73	30.25E	57	12N	73	47E
59	9	2	38.575	2290	57	28.33N	73	35.35E	57	3N	73	52E
60	9	2	40.870	2295	57	19.37N	73	40.36E	56	54N	73	57E
61	9	2	43.160	2290	57	10.44N	73	45.35E	56	45N	74	2E
62	9	2	45.455	2295	57	1.48N	73	50.30E	56	36N	74	7E
63	9	2	47.750	2295	56	52.51N	73	55.20E	56	27N	74	11E
64	9	2	50.045	2295	56	43.54N	74	0.80E	56	18N	74	16E
65	9	2	52.341	2295	56	34.56N	74	4.89E	56	9N	74	21E
66	9	2	54.631	2295	56	25.61N	74	9.65E	56	0N	74	25E
67	9	2	56.926	2295	56	16.62N	74	14.39E	55	51N	74	30E
68	9	2	59.211	2286	56	7.68N	74	19.06E	55	43N	74	34E
69	9	3	1.501	2290	55	58.70N	74	23.70E	55	34N	74	39E
70	9	3	3.790	2289	55	49.73N	74	28.31E	55	25N	74	43E
71	9	3	6.080	2290	55	40.75N	74	32.87E	55	16N	74	48E
72	9	3	8.370	2290	55	31.77N	74	37.39E	55	7N	74	52E
73	9	3	10.655	2290	55	22.80N	74	41.87E	54	58N	74	57E
74	9	3	12.945	2285	55	13.81N	74	46.32E	54	49N	75	1E
75	9	3	15.231	2286	55	4.84N	74	50.72E	54	40N	75	5E
76	9	3	17.521	2289	54	55.84N	74	55.10E	54	31N	75	9E
77	9	3	19.806	2285	54	46.86N	74	59.42E	54	22N	75	13E
78	9	3	22.091	2285	54	37.87N	75	3.72E	54	13N	75	18E
79	9	3	24.375	2285	54	28.89N	75	7.97E	54	4N	75	22E
80	9	3	26.665	2290	54	19.88N	75	12.20E	53	55N	75	26E
81	9	3	28.950	2285	54	10.88N	75	16.39E	53	46N	75	30E
82	9	3	31.235	2285	54	1.88N	75	20.54E	53	37N	75	34E
83	9	3	33.517	2281	53	52.89N	75	24.65E	53	28N	75	38E
84	9	3	35.801	2284	53	43.89N	75	28.73E	53	19N	75	42E
85	9	3	38.080	2280	53	34.90N	75	32.78E	53	10N	75	46E
86	9	3	40.360	2280	53	25.91N	75	36.79E	53	0N	75	50E
87	9	3	42.637	2276	53	16.93N	75	40.76E	52	53E	75	53E
88	9	3	44.920	2284	53	7.92N	75	44.71E	52	42N	75	57E
89	9	3	47.200	2280	52	58.91N	75	48.63E	52	33N	76	1E
90	9	3	49.480	2280	52	49.91N	75	52.51E	52	24N	76	5E

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 70D FWD 18AUG64

FRAME EPHEMERIS MISSION 1889-2

ID 27

LIST DATE 87MAY65 PAGE 42

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	F/S	DEG	MI	DEG	MIN	DEG
136	9	5	34.330	2280	45	53.00N	78	23.18E	45	27N	78	32E	613231	24844	167	59	49	5	15	6	-8	9	0	10	2.756
137	9	5	36.685	2275	45	43.90N	78	25.94E	45	17N	78	35E	613256	24843	168	2	49	9	15	6	-8	9	0	10	2.762
138	9	5	38.886	2280	45	34.78N	78	28.69E	45	8N	78	38E	613283	24843	168	5	49	13	15	6	-8	8	0	9	2.756
139	9	5	41.160	2275	45	25.68N	78	31.41E	44	59N	78	41E	613314	24843	168	8	49	16	15	6	-8	8	0	8	2.762
140	9	5	43.436	2275	45	16.58N	78	34.12E	44	50N	78	43E	613347	24843	168	10	49	19	15	6	-8	7	0	7	2.762
141	9	5	45.716	2280	45	7.45N	78	36.82E	44	41N	78	46E	613383	24843	168	13	49	23	15	6	-8	7	0	6	2.756
142	9	5	47.995	2280	44	58.33N	78	39.58E	44	32N	78	49E	613423	24843	168	16	49	26	15	6	-8	6	0	5	2.762
143	9	5	50.271	2275	44	49.22N	78	42.15E	44	23N	78	51E	613466	24843	168	19	49	29	15	6	-8	6	0	4	2.756
144	9	5	52.551	2280	44	40.09N	78	44.80E	44	14N	78	54E	613511	24843	168	21	49	33	15	6	-8	6	0	3	2.756
145	9	5	54.825	2275	44	30.98N	78	47.42E	44	5N	78	56E	613560	24843	168	24	49	36	15	6	-8	5	0	3	2.762
146	9	5	57.110	2285	44	21.83N	78	50.04E	43	55N	78	59E	613612	24843	168	27	49	39	15	6	-8	5	0	2	2.750
147	9	5	59.386	2275	44	12.71N	78	52.65E	43	46N	79	2E	613667	24843	168	29	49	43	15	6	-8	4	0	1	2.762
148	9	6	1.670	2285	44	3.56N	78	55.21E	43	37N	79	4E	613724	24843	168	32	49	46	15	6	-8	4	0	1	2.750
149	9	6	3.950	2280	43	54.42N	78	57.78E	43	28N	79	7E	613785	24842	168	34	49	49	15	6	-8	4	0	1	2.756
150	9	6	6.230	2280	43	45.28N	79	0.32E	43	19N	79	9E	613849	24842	168	37	49	52	15	6	-8	3	0	1	2.756
151	9	6	8.511	2280	43	36.14N	79	2.85E	43	10N	79	12E	613916	24842	168	39	49	55	15	6	-8	3	0	1	2.756
152	9	6	10.795	2285	43	26.98N	79	5.37E	43	1N	79	14E	613983	24842	168	42	49	58	15	6	-8	3	0	1	2.750
153	9	6	13.075	2280	43	17.84N	79	7.88E	42	51N	79	17E	614060	24842	168	44	50	1	15	6	-8	3	0	1	2.756
154	9	6	15.360	2285	43	8.68N	79	10.37E	42	42N	79	19E	614136	24842	168	47	50	5	15	6	-8	3	0	1	2.750
155	9	6	17.646	2285	42	59.51N	79	12.84E	42	33N	79	21E	614216	24842	168	49	50	8	15	6	-8	3	0	1	2.750
156	9	6	19.927	2281	42	58.36N	79	15.30E	42	24N	79	24E	614298	24841	168	52	50	11	15	6	-8	3	0	1	2.755

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 72A FWD 18AUG64

FRAME EPHEMERIS MISSION 1809-2

ID 27

LIST DATE 07MAY65

PAGE 43

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	MI	DEG	MIN	DEG	MIN	RATE
1	11	43	50.971	38	48.71N	122	56.46W	39	51N	122	44W	981501	24009	10	4	-17	3	ND	ND	ND	ND	1.196		
2	11	43	56.226	39	9.17N	122	51.79W	39	51N	122	39W	979245	24014	10	8	-16	46	ND	ND	ND	ND	1.196		
3	11	44	0.711	44	26.64N	122	47.76W	40	9N	122	35W	977322	24018	10	12	-16	32	ND	ND	ND	ND	1.401		
4	11	44	5.825	39	43.44N	122	43.84W	40	25N	122	31W	975473	24022	10	16	-16	19	ND	ND	ND	ND	1.456		
5	11	44	9.271	39	59.96N	122	39.94W	40	42N	122	27W	973656	24026	10	20	-16	6	ND	ND	ND	ND	1.488		
6	11	44	13.485	40	16.37N	122	36.03W	40	58N	122	23W	971854	24030	10	24	-15	53	ND	ND	ND	ND	1.491		
7	11	44	17.670	40	32.65N	122	32.11W	41	14N	122	19W	970065	24034	10	28	-15	40	ND	ND	ND	ND	1.501		
8	11	44	21.835	40	48.86N	122	28.16W	41	30N	122	15W	968287	24038	10	32	-15	27	ND	ND	ND	ND	1.509		
9	11	44	25.976	41	4.98N	122	24.19W	41	47N	122	11W	966522	24042	10	36	-15	14	ND	ND	ND	ND	1.518		
10	11	44	30.105	41	21.05N	122	20.20W	42	2N	122	7W	964762	24045	10	40	-15	1	ND	ND	ND	ND	1.521		
11	11	44	34.226	41	37.08N	122	16.17W	42	18N	122	3W	963009	24049	10	44	-14	49	ND	ND	ND	ND	1.525		
12	11	44	38.325	41	53.03N	122	12.12W	42	34N	121	59W	961266	24053	10	48	-14	36	ND	ND	ND	ND	1.532		
13	11	44	42.415	42	8.93N	122	8.04W	42	50N	121	55W	959528	24057	10	52	-14	23	ND	ND	ND	ND	1.536		

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 720 FWD 10AUG64

FRAME EPHMERIS

MISSION 1009-2

ID 27

LIST DATE 07MAY65

PAGE 46

FRM	2 TIME			DTM	CAMERA		NADIR		FORMAT CENTER		ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN							
	HR	MI	SEC		DEG	MIN	DEG	MIN	DEG	MIN									DEG	MIN	DEG	MIN	DEG	MIN	DEG
91	12	7	17.167	2281	44	16.72N	33	13.28E	43	51N	33	23E	614042	24842	168	28	49	51	14	58	0	9	-0	41	2.755
92	12	7	19.446	2279	44	7.59N	33	15.86E	43	41N	33	26E	614107	24841	168	31	49	55	14	59	0	9	-0	42	2.757
93	12	7	21.731	2285	43	58.43N	33	18.44E	43	32N	33	28E	614175	24841	168	33	49	58	14	59	0	9	-0	43	2.750
94	12	7	24.017	2285	43	49.28N	33	21.00E	43	23N	33	31E	614246	24841	168	36	50	50	14	59	0	9	-0	43	2.750
95	12	7	26.302	2285	43	40.12N	33	23.54E	43	14N	33	33E	614320	24841	168	38	50	50	14	59	0	9	-0	44	2.750
96	12	7	28.561	2280	43	30.98N	33	26.06E	43	5N	33	36E	614397	24841	168	41	50	8	15	15	0	10	-0	44	2.756
97	12	7	30.866	2285	43	21.82N	33	28.57E	42	56N	33	38E	614477	24841	168	43	50	11	15	15	1	10	-0	45	2.750
98	12	7	33.151	2285	43	12.65N	33	31.07E	42	46N	33	41E	614561	24841	168	46	50	14	15	15	1	11	-0	46	2.750
99	12	7	35.437	2285	43	3.49N	33	33.55E	42	37N	33	43E	614647	24840	168	48	50	17	15	15	2	11	-0	46	2.750
100	12	7	37.717	2280	42	54.34N	33	36.01E	42	20N	33	46E	614736	24840	168	51	50	20	15	15	3	11	-0	47	2.756
101	12	7	40.007	2290	42	45.15N	33	38.47E	42	19N	33	48E	614829	24840	168	53	50	23	15	15	3	11	-0	48	2.744
102	12	7	42.287	2281	42	36.00N	33	40.90E	42	10N	33	51E	614924	24840	168	56	50	26	15	15	3	11	-0	48	2.755

A

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 820 FWD 11AUG64

FRAME EPHMERIS MISSION 1089-2

ID 27

LIST DATE 07MAY65 PAGE 48

FRM	Z 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
46	3 7 15.072	2270	69 30.84N	140 34.20E	69	6N	635945	24778	151 31	35 25	14 59	0 15	0 8	2.768
47	3 7 17.343	2270	69 22.72N	148 46.67E	68	58N	635950	24778	151 44	35 25	14 59	0 14	0 8	2.768
48	3 7 19.612	2270	69 14.68N	149 58.98E	68	58N	6359236	24779	151 56	35 31	15 0	0 13	0 8	2.768
49	3 7 21.883	2270	69 6.445N	149 11.13E	68	42N	636885	24780	152 9	35 38	15 0	0 12	0 8	2.768
50	3 7 24.152	2270	68 58.29N	149 23.12E	68	34N	636536	24781	152 21	35 44	15 0	0 11	0 9	2.768
51	3 7 26.419	2266	68 50.12N	149 34.94E	68	25N	636191	24782	152 33	35 50	15 1	0 10	0 9	2.773
52	3 7 28.683	2264	68 41.95N	149 46.60E	68	17N	637848	24783	152 45	35 57	15 1	0 9	0 9	2.775
53	3 7 30.952	2270	68 33.75N	149 58.14E	68	9N	637506	24783	152 57	36 3	15 2	0 8	0 9	2.768
54	3 7 33.214	2261	68 25.56N	150 9.49E	68	1N	637168	24784	153 9	36 16	15 2	0 7	0 9	2.779
55	3 7 35.478	2264	68 17.34N	150 20.71E	67	52N	636832	24785	153 20	36 16	15 2	0 6	0 9	2.775
56	3 7 37.732	2255	68 9.15N	150 31.75E	67	44N	636580	24786	153 31	36 22	15 1	0 5	0 9	2.786
57	3 7 39.992	2260	68 0.92N	150 42.67E	67	36N	636168	24787	153 42	36 29	15 1	0 4	0 9	2.780
58	3 7 42.247	2255	67 52.70N	150 53.44E	67	28N	635841	24787	153 54	36 35	15 1	0 3	0 9	2.786
59	3 7 44.508	2260	67 44.44N	151 4.10E	67	19N	635515	24788	154 4	36 41	15 1	0 3	0 8	2.780
60	3 7 46.768	2260	67 36.17N	151 14.63E	67	11N	635191	24789	154 15	36 48	15 1	0 2	0 8	2.780
61	3 7 49.022	2255	67 27.91N	151 25.00E	67	3N	634669	24790	154 26	36 54	15 1	0 2	0 8	2.780
62	3 7 51.273	2251	67 19.65N	151 35.23E	66	55N	634552	24791	154 36	37 0	15 1	0 2	0 8	2.791
63	3 7 53.532	2259	67 11.35N	151 45.38E	66	46N	634235	24791	154 47	37 7	15 1	0 1	0 8	2.781
64	3 7 55.787	2255	67 3.85N	151 55.38E	66	38N	633922	24792	154 57	37 13	15 1	0 1	0 7	2.786
65	3 7 58.042	2255	66 54.74N	152 5.27E	66	30N	633610	24793	155 7	37 19	15 1	0 1	0 7	2.786
66	3 8 0.292	2250	66 46.43N	152 15.01E	66	21N	633301	24793	155 17	37 25	15 1	0 1	0 6	2.793
67	3 8 2.548	2255	66 38.18N	152 24.67E	66	13N	632994	24794	155 27	37 32	15 1	0 1	0 6	2.786
68	3 8 4.798	2250	66 29.77N	152 34.19E	66	5N	632690	24795	155 37	37 38	15 1	0 1	0 5	2.793
69	3 8 7.053	2255	66 21.41N	152 43.61E	65	56N	632388	24795	155 46	37 44	15 1	0 1	0 4	2.799
70	3 8 9.298	2245	66 13.08N	152 52.89E	65	48N	632090	24796	155 56	37 50	15 1	0 1	0 4	2.799
71	3 8 11.548	2245	66 4.72N	153 11.14E	65	39N	631793	24797	156 5	37 56	15 1	0 1	0 2	2.793
72	3 8 13.792	2245	65 56.37N	153 20.12E	65	31N	631500	24798	156 15	38 3	15 1	0 2	0 2	2.799
73	3 8 16.042	2250	65 47.99N	153 28.98E	65	23N	631208	24798	156 24	38 9	15 2	0 2	0 1	2.793
74	3 8 18.287	2245	65 39.62N	153 37.73E	65	14N	630919	24799	156 33	38 15	15 2	0 2	0 1	2.799
75	3 8 20.532	2245	65 31.24N	153 46.37E	65	6N	630632	24800	156 42	38 21	15 3	0 3	0 1	2.799
76	3 8 22.772	2240	65 22.86N	153 54.93E	64	57N	630348	24800	156 51	38 27	15 3	0 3	0 1	2.805
77	3 8 25.018	2245	65 14.46N	153 6.08E	64	49N	630066	24801	157 0	38 33	15 3	0 4	0 2	2.799
78	3 8 27.258	2240	65 6.07N	154 11.35E	64	41N	629788	24802	157 8	38 39	15 4	0 4	0 4	2.805
79	3 8 29.503	2245	64 57.65N	154 20.02E	64	32N	629511	24802	157 17	38 45	15 4	0 5	0 4	2.799
80	3 8 31.747	2245	64 49.22N	154 28.02E	64	24N	629237	24803	157 26	38 51	15 4	0 6	0 5	2.799
81	3 9 21.313	49566	61 41.05N	157 1.80E	61	16N	623791	24816	160 12	41 2	15 5	0 20	0 43	1.954
82	3 9 24.528	3215	61 28.72N	157 11.06E	61	3N	623478	24817	160 22	41 10	15 5	0 19	0 43	2.468
83	3 9 27.082	2554	61 18.92N	157 18.33E	60	53N	623235	24817	160 29	41 16	15 5	0 17	0 43	2.468
84	3 9 29.482	2400	61 9.78N	157 25.09E	60	44N	623008	24818	160 36	41 23	15 5	0 16	0 43	2.618
85	3 9 31.819	2337	61 0.72N	157 31.60E	60	35N	622791	24818	160 43	41 29	15 4	0 15	0 44	2.689
86	3 9 34.088	2268	60 52.08N	157 37.85E	60	26N	622562	24819	160 49	41 34	15 4	0 14	0 45	2.778
87	3 9 36.357	2270	60 43.26N	157 44.05E	60	18N	622376	24819	160 56	41 40	15 4	0 14	0 45	2.768
88	3 9 38.629	2271	60 34.51N	157 50.19E	60	9N	622112	24820	161 2	41 46	15 4	0 13	0 45	2.767
89	3 9 40.867	2239	60 25.89N	157 56.18E	60	0N	621974	24820	161 8	41 52	15 4	0 13	0 46	2.806
90	3 9 43.140	2272	60 17.12N	158 2.21E	59	52N	621776	24821	161 15	41 57	15 3	0 13	0 47	2.765

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET!
SPECIAL HANDLING REQUIRED

MISSION 1009-2
ID 27
LIST DATE 07MAY65
PAGE 50

PASS	82D FWD	11AUG64	FRM	2 TIME	DTIM	MILS	DEG MIN	LAT	DEG	MIN	LONG	DEG	MIN	LONG	ALTITUDE	VELOC	F/S	DEG	MI	DEG	SUN/	PITCH	ROLL	YAW	SCAN	
			HR	MI	SEC										FEET							DEG	MIN	DEG	MIN	RATE
136	3	11	25	603	2220	53	37.06N	161	43.67E	53	11N	161	58E	615583	24836	165	4	46	8	15	2	0	18	-0	38	2.824
137	3	11	27	827	2225	53	28.28N	161	47.59E	53	2N	162	2E	615510	24836	165	8	46	5	15	1	0	18	-0	37	2.830
138	3	11	30	048	2220	53	19.52N	161	51.47E	52	54N	162	6E	615440	24836	165	12	46	10	15	0	0	18	-0	36	2.824
139	3	11	32	272	2225	53	10.74N	161	55.33E	52	45N	162	10E	615372	24836	165	16	46	15	15	0	0	19	-0	36	2.824
140	3	11	34	497	2225	53	1.06N	161	59.16E	52	36N	162	13E	615307	24837	165	20	46	20	15	0	0	19	-0	35	2.824
141	3	11	36	723	2225	52	53.17N	162	2.96E	52	27N	162	17E	615245	24837	165	24	46	25	15	0	0	19	-0	34	2.830
142	3	11	38	942	2220	52	44.41N	162	6.73E	52	19N	162	21E	615185	24837	165	27	46	29	15	0	0	20	-0	32	2.829
143	3	11	41	163	2224	52	35.63N	162	10.46E	52	18N	162	25E	615129	24837	165	31	46	34	15	1	1	15	0	30	2.825
144	3	11	43	388	2224	52	26.84N	162	14.18E	52	1N	162	28E	615075	24837	165	35	46	39	15	1	1	15	0	29	2.830
145	3	11	45	607	2220	52	18.06N	162	17.85E	51	52N	162	32E	615024	24837	165	39	46	44	15	1	1	15	0	28	2.830
146	3	11	47	827	2220	52	9.28N	162	21.50E	51	43N	162	35E	614975	24837	165	43	46	48	15	1	1	15	0	27	2.837
147	3	11	50	042	2215	52	0.52N	162	25.12E	51	35N	162	39E	614929	24838	165	46	46	53	15	1	1	15	0	26	2.830
148	3	11	52	263	2220	51	51.73N	162	28.72E	51	26N	162	42E	614885	24838	165	50	46	58	15	1	1	15	0	26	2.824
149	3	11	54	487	2225	51	42.92N	162	32.29E	51	17N	162	46E	614845	24838	165	54	47	7	15	1	1	15	0	25	2.837
150	3	11	56	702	2215	51	34.15N	162	35.03E	51	8N	162	49E	614807	24838	165	57	47	12	15	1	1	15	0	25	2.824
151	3	11	58	928	2220	51	25.33N	162	39.35E	50	59N	162	53E	614739	24838	166	5	47	16	15	1	1	15	0	24	2.824
152	3	12	1	147	2225	51	16.54N	162	42.84E	50	51N	162	56E	614709	24838	166	8	47	21	15	1	1	15	0	24	2.824
153	3	12	3	372	2220	50	7.72N	162	46.31E	50	42N	162	59E	614682	24838	166	12	47	26	15	1	1	15	0	24	2.830
154	3	12	5	593	2220	50	58.92N	162	49.75E	50	33N	163	3E	614658	24838	166	15	47	30	15	1	1	15	0	24	2.830
155	3	12	7	813	2220	50	50.11N	162	53.16E	50	24N	163	6E	614637	24838	166	19	47	35	15	1	1	15	0	24	2.830
156	3	12	10	032	2220	50	41.31N	162	56.55E	50	15N	163	9E	614637	24838	166	19	47	35	15	1	1	15	0	24	2.830

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

FRM	Z TIME			DTIM	CAMERA NADIR			FORMAT CENTER			ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN							
	HR	MI	SEC		MILS	DEG	MIN	LONG	DEG	MIN									LONG	FEET	F/S	DEG	MI	DEG	MI
181	7	50	39.313	2375	24	16.80N	100	48.05E	23	48N	100	45E	658563	24739	172	12	54	25	14	53	-0	31	0	15	2.646
182	7	50	41.700	2387	24	7.14N	100	41.49E	23	39N	100	46E	659110	24738	172	14	54	25	14	51	-0	34	0	17	2.632
183	7	50	44.079	2379	23	57.51N	100	42.92E	23	29N	100	47E	659657	24736	172	15	54	24	14	50	-0	37	0	18	2.641
184	7	50	46.438	2359	23	47.96N	100	44.33E	23	19N	100	49E	660204	24735	172	16	54	24	14	49	-0	39	0	19	2.663
185	7	50	48.813	2375	23	38.35N	100	45.75E	23	10N	100	50E	660758	24734	172	17	54	23	14	47	-0	40	0	19	2.644
186	7	50	51.189	2376	23	28.73N	100	47.16E	23	0N	100	51E	661315	24732	172	18	54	22	14	46	-0	40	0	20	2.644
187	7	50	53.573	2384	23	19.09N	100	48.58E	22	51N	100	53E	661877	24731	172	19	54	21	14	44	-0	43	0	20	2.636
188	7	50	55.975	2401	23	9.37N	100	49.99E	22	41N	100	54E	662447	24730	172	20	54	20	14	43	-0	43	0	20	2.617
189	7	50	58.349	2374	22	59.76N	100	51.39E	22	31N	100	56E	663015	24729	172	21	54	19	14	41	-0	43	0	20	2.647
190	7	51	0.738	2390	22	50.09N	100	52.79E	22	22N	100	57E	663588	24727	172	22	54	19	14	39	-0	43	0	19	2.629

MISSION 1009-2

ID 27

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TOP SECRET
SPECIAL HANDLING REQUIRED
HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

FRAME EPHEMERIS

MISSION 1889-2

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LIST DATE 07MAY65

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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	MIN DEG	MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
1 11 54	1.438	0	38	7.89N	128	9.01W	957534	24068	9	55	-19	18	ND	1.298
2 11 54	6.299	4869	38	26.98N	128	4.78W	955467	24065	9	59	-19	3	ND	1.298
3 11 54	18.389	3985	38	42.86N	128	1.19W	953732	24068	10	3	-18	58	ND	1.536
4 11 54	14.373	3886	38	58.42N	127	57.65W	952045	24072	10	6	-18	37	ND	1.617
5 11 54	18.213	3885	39	13.59N	127	54.17W	950481	24076	10	10	-18	25	ND	1.638
6 11 54	22.113	3854	39	28.63N	127	50.69W	948773	24079	10	13	-18	13	ND	1.638
7 11 54	25.948	3835	39	43.68N	127	47.19W	947154	24083	10	17	-18	1	ND	1.649
8 11 54	29.759	3818	39	58.47N	127	43.68W	945548	24086	10	20	-17	48	ND	1.651
9 11 54	33.563	3805	40	13.32N	127	40.14W	943945	24090	10	24	-17	36	ND	1.651
10 11 54	37.354	3798	40	28.11N	127	36.59W	942352	24093	10	27	-17	24	ND	1.658
11 11 54	41.134	3780	40	42.86N	127	33.01W	940763	24097	10	31	-17	12	ND	1.662
12 11 54	44.898	3765	40	57.55N	127	29.41W	939183	24100	10	35	-17	0	ND	1.669
13 11 54	48.648	3750	41	12.17N	127	25.79W	937612	24104	10	38	-16	48	ND	1.676
14 11 54	52.394	3745	41	26.78N	127	22.14W	936045	24107	10	42	-16	36	ND	1.678

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
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CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED
MISSION 1809-2

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PASS	88D FWD	11AUG64	FRM	Z TIME	DTIM	DEG MIN	DEG	LONG	DEG MIN	DEG	LONG	ALTITUDE	VELOC	DEG MI	SUN/	PITCH	ROLL	YAW	SCAN	
			HR MI	SEC	MILS	LAT	MIN	MIN	MIN	MIN	MIN	FEET	F/S	DEG MI	DEG MI	MIN	MIN	MIN	RATE	
46	12	14	46.686		2231	55	29.91N	23	57.17E	55	57.17E	616587	24833	164	8	45	15	14	25	2.816
47	12	14	46.918		2225	55	21.18N	24	1.53E	54	57N	616584	24833	164	13	45	20	14	25	2.824
48	12	14	51.145		2234	55	12.41N	24	5.86E	54	48N	616424	24833	164	17	45	25	14	25	2.813
49	12	14	53.374		2230	55	3.65N	24	10.15E	54	39N	616346	24833	164	22	45	31	14	26	2.818
50	12	14	55.680		2225	54	54.91N	24	14.39E	54	38N	616272	24833	164	26	45	36	14	27	2.824
51	12	14	57.829		2230	54	46.14N	24	18.61E	54	21N	616200	24834	164	35	45	41	14	27	2.818
52	12	15	0.060		2230	54	37.37N	24	22.80E	54	13N	616153	24834	164	39	45	46	14	28	2.824
53	12	15	2.284		2225	54	28.62N	24	26.94E	54	4N	616063	24834	164	43	45	52	14	29	2.823
54	12	15	4.511		2226	54	19.86N	24	31.06E	53	4N	615999	24834	164	48	45	57	14	30	2.819
55	12	15	6.739		2229	54	11.09N	24	35.14E	53	55N	615938	24834	164	52	46	2	14	32	2.823
56	12	15	8.966		2226	54	2.32N	24	39.19E	53	46N	615879	24834	164	56	46	7	14	33	2.819
57	12	15	11.194		2229	53	53.54N	24	43.28E	53	37N	615823	24835	164	56	46	12	14	34	2.819
58	12	15	13.425		2230	53	44.75N	24	47.19E	53	28N	615769	24835	165	0	46	18	14	35	2.824
59	12	15	15.649		2225	53	35.98N	24	51.14E	53	11N	615718	24835	165	4	46	23	14	35	2.824
60	12	15	17.879		2230	53	27.19N	24	55.07E	53	2N	615662	24835	165	8	46	28	14	37	2.824
61	12	15	20.104		2225	53	18.41N	24	58.96E	52	53N	615625	24835	165	12	46	33	14	38	2.818
62	12	15	22.334		2230	53	9.61N	25	2.82E	52	44N	615582	24835	165	16	46	38	14	39	2.824
63	12	15	24.568		2225	53	0.82N	25	6.65E	52	35N	615541	24835	165	20	46	43	14	40	2.818
64	12	15	26.789		2230	52	52.02N	25	10.45E	52	27N	615504	24835	165	24	46	48	14	41	2.824
65	12	15	29.015		2225	52	43.23N	25	14.22E	52	18N	615470	24836	165	28	46	53	14	42	2.818
66	12	15	31.244		2230	52	34.42N	25	17.97E	52	9N	615437	24836	165	32	46	58	14	44	2.824
67	12	15	33.475		2230	52	25.60N	25	21.69E	52	8N	615408	24836	165	36	47	3	14	44	2.818
68	12	15	35.704		2230	52	16.79N	25	25.38E	51	51N	615381	24836	165	39	47	8	14	44	2.824
69	12	15	37.930		2225	52	7.98N	25	29.03E	51	42N	615357	24836	165	43	47	13	14	44	2.824
70	12	15	40.154		2225	51	59.18N	25	32.66E	51	34N	615336	24836	165	47	47	18	14	45	2.824
71	12	15	42.379		2225	51	50.38N	25	36.26E	51	25N	615317	24836	165	51	47	23	14	46	2.824
72	12	15	44.604		2225	51	41.57N	25	39.83E	51	16N	615301	24836	165	54	47	27	14	46	2.824
73	12	15	46.829		2225	51	32.76N	25	43.37E	51	7N	615288	24836	165	58	47	32	14	47	2.823
74	12	15	49.056		2226	51	23.94N	25	46.90E	50	58N	615277	24836	166	2	47	37	14	48	2.823
75	12	15	51.285		2220	51	15.10N	25	50.40E	50	49N	615270	24836	166	5	47	42	14	48	2.818
76	12	15	53.515		2229	51	6.27N	25	53.87E	50	40N	615264	24836	166	9	47	47	14	49	2.819

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

FRAME EPHEMERIS

MISSION 1009-2

ID 27

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TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84018-65

FRM	HR	MI	SEC	DTM	DEG	MIN	LONG	DEG	MIN	LONG	ALTITUDE	VELOC	DEG	MI	DEG	MI	PITCH	ROLL	YAW	SCAN
PASS	960	FWD	12AUG64	MILLS	LAT	DEG	MIN	DEG	MIN	LONG	FEET	F/S	DEG	MI	DEG	MI	DEG	MIN	DEG	RATE
1	0	36	28.777	4298	11	27.485	145	56.05W	12	55	871385	24253	173	17	40	42	15	5	-0	1.465
2	0	36	33.067	3575	11	44.565	145	54.01W	12	235	873526	24248	173	17	40	31	15	5	-0	1.465
3	0	36	36.643	3520	11	58.795	145	52.30W	12	375	875316	24248	173	16	40	21	15	5	-0	1.758
4	0	36	40.063	3420	12	12.405	145	50.67W	12	515	877032	24240	173	15	40	12	15	5	-0	1.837
5	0	36	43.418	3355	12	25.755	145	49.06W	13	45	878718	24236	173	14	40	2	15	1	-0	1.873
6	0	36	46.758	3340	12	39.045	145	47.46W	13	175	880400	24232	173	14	39	53	14	59	-0	1.887
7	0	36	50.088	3330	12	52.295	145	45.85W	13	305	882800	24229	173	13	39	44	14	58	-0	1.884
8	0	36	53.423	3335	13	5.555	145	44.24W	13	445	883766	24225	173	12	39	35	14	57	-0	1.884
9	0	36	56.758	3340	13	18.815	145	42.63W	13	575	885455	24221	173	12	39	26	14	55	-0	1.881
10	0	37	0.098	3340	13	32.095	145	41.01W	14	105	887150	24217	173	11	39	16	14	54	-0	1.881
11	0	37	3.438	3340	13	45.365	145	39.39W	14	245	888849	24213	173	10	39	7	14	52	-0	1.878
12	0	37	6.782	3345	13	58.655	145	37.76W	14	375	890552	24210	173	9	38	58	14	51	-0	1.873
13	0	37	10.138	3355	14	11.985	145	36.12W	14	505	892265	24206	173	9	38	48	14	49	-0	1.870
14	0	37	13.497	3360	14	25.335	145	34.47W	15	175	893983	24202	173	8	38	39	14	47	-0	1.867
15	0	37	16.857	3360	14	38.675	145	32.82W	15	305	895704	24198	173	7	38	29	14	46	-0	1.862
16	0	37	20.223	3365	14	52.035	145	31.16W	15	445	897432	24194	173	6	38	18	14	42	-0	1.856
17	0	37	23.598	3375	15	5.435	145	29.49W	15	575	899167	24190	173	5	38	10	14	40	-0	1.856
18	0	37	26.982	3385	15	18.865	145	27.81W	15	705	900916	24186	173	5	38	1	14	40	-0	1.856
19	0	37	30.367	3395	15	32.295	145	26.13W	16	105	902656	24182	173	4	37	51	14	37	-0	1.851
20	0	37	33.763	3400	15	45.765	145	24.44W	16	245	904411	24178	173	3	37	42	14	35	-0	1.848
21	0	37	37.162	3400	15	59.255	145	22.74W	16	375	906170	24174	173	2	37	32	14	33	-0	1.843
22	0	37	40.572	3410	16	12.775	145	21.02W	16	515	907938	24170	173	1	37	22	14	31	-0	1.843
23	0	37	43.982	3410	16	26.295	145	19.31W	17	45	909710	24166	173	0	37	13	14	29	-0	1.837
24	0	37	47.402	3420	16	39.845	145	17.58W	17	185	911489	24162	172	59	37	3	14	28	-0	1.835
25	0	37	50.827	3425	16	53.415	145	15.85W	17	315	913273	24158	172	58	36	53	14	28	-0	1.832
26	0	37	54.258	3430	17	7.015	145	14.10W	17	455	915065	24154	172	57	36	43	14	28	-0	1.827
27	0	37	57.697	3440	17	20.635	145	12.35W	17	595	916863	24150	172	56	36	33	14	28	-0	1.821
28	0	38	1.147	3450	17	34.295	145	10.58W	18	135	918669	24146	172	55	36	23	14	29	-0	1.819
29	0	38	4.603	3455	17	47.975	145	8.81W	18	265	920480	24142	172	54	36	13	14	29	-0	1.813
30	0	38	8.067	3465	18	1.695	145	7.02W	18	405	922300	24138	172	53	36	3	14	30	-0	1.811
31	0	38	11.537	3470	18	15.425	145	5.23W	18	545	924125	24134	172	52	35	53	14	30	-0	1.808
32	0	38	15.014	3476	18	29.175	145	3.42W	19	85	925956	24130	172	51	35	42	14	31	-0	1.808
33	0	38	18.503	3489	18	42.975	145	1.60W	19	225	927797	24126	172	50	35	32	14	32	-0	1.793
34	0	38	21.992	3490	18	56.775	144	59.78W	19	365	929640	24122	172	49	35	22	14	33	-0	1.793
35	0	38	25.497	3505	19	10.635	144	57.94W	19	505	931495	24118	172	48	35	12	14	33	-0	1.790
36	0	38	29.008	3510	19	24.515	144	56.09W	20	45	933355	24113	172	46	35	1	14	34	-0	1.790
37	0	38	32.518	3518	19	38.385	144	54.23W	20	185	935217	24109	172	45	34	51	14	34	-0	1.782
38	0	38	36.044	3526	19	52.315	144	52.36W	20	325	937090	24105	172	44	34	40	14	35	-0	1.780
39	0	38	39.573	3530	20	6.255	144	50.47W	20	465	938968	24101	172	43	34	30	14	36	-0	1.770
40	0	38	43.122	3549	20	20.265	144	48.57W	21	605	940850	24097	172	42	34	19	14	37	-0	1.770
41	0	38	46.673	3550	20	34.285	144	46.66W	21	145	942752	24092	172	40	34	9	14	38	-0	1.770

TOP SECRET
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

FRM	HR	MI	SEC	DTIM	MILS	DEG	LAT	DEG	MIN	DEG	LONG	DEG	MIN	DEG	LONG	ALTITUDE	VELOC	F/S	DEG	MI	DEG	SUN/	MI	PITCH	DEG	MIN	DEG	MIN	ROLL	DEG	MIN	YAW	DEG	MIN	SCAN	RATE	
PASS	990	FWD	12AUG64																																		
	91	4	55	13.882	2244	41	20.40N	138	2.19E	48	54N	138	18E	625472	24812	169	15	52	59	14	46	0	0	1	1	0	0	0	0	0	0	0	0	0	2.800	2.800	
	92	4	55	16.142	2260	41	11.33N	138	4.47E	48	45N	138	13E	625700	24812	169	17	53	3	14	46	0	0	1	1	0	0	0	0	0	0	0	0	0	2.780	2.780	
	93	4	55	18.417	2276	41	2.19N	138	6.75E	48	36N	138	15E	625933	24811	169	20	53	6	14	45	0	0	1	1	0	0	0	0	0	0	0	0	0	2.761	2.761	
	94	4	55	20.661	2244	40	53.18N	138	8.98E	48	27N	138	17E	626166	24811	169	22	53	10	14	45	0	0	1	1	0	0	0	0	0	0	0	0	0	2.800	2.800	
	95	4	55	22.927	2265	40	44.08N	138	11.23E	48	18N	138	19E	626403	24810	169	24	53	13	14	45	0	0	1	1	0	0	0	0	0	0	0	0	0	2.774	2.774	

TOP SECRET

FRM	2 TIME	DTIM	CAMERA	FORMAT	MISSION	LIST DATE	DTM	PAGE	SCAN
HR	MI	SEC	LAT	MIN	DEG	LONG	MIN	DEG	MI
PASS	1800	FWD	12AUG64	FRAME EPHEMERIS	MISSION	1809-2	ID 27	LIST DATE 07MAY65	66
1	6	25	13.233						
2	6	25	16.475						
3	6	25	19.063						
4	6	25	21.487						
5	6	25	23.863						
6	6	25	26.167						
7	6	25	28.463						
8	6	25	30.773						
9	6	25	33.043						
10	6	25	35.327						
11	6	25	37.687						
12	6	25	39.984						
13	6	25	42.162						
14	6	25	44.442						
15	6	25	46.719						
16	6	25	48.997						
17	6	25	51.268						
18	6	25	53.542						
19	6	25	55.817						
20	6	25	58.083						
21	6	26	8.373						
22	6	26	2.638						
23	6	26	4.987						
24	6	26	7.183						
25	6	26	9.457						
26	6	26	11.737						
27	6	26	14.033						
28	6	26	16.313						
29	6	26	18.573						
30	6	26	20.853						
31	6	26	23.133						
32	6	26	25.425						
33	6	26	27.692						
34	6	26	29.978						
35	6	26	32.263						
36	6	26	34.548						
37	6	26	36.827						
38	6	26	39.113						
39	6	26	41.398						
40	6	26	43.684						
41	6	26	45.974						
42	6	26	48.279						
43	6	26	50.554						
44	6	26	52.844						
45	6	26	55.129						

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

FRAME EPHMERIS MISSION 1809-2

ID 27

LIST DATE 07MAY65

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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	DEG	MIN	FEET	F/S	DEG	MI	DEG	MIN	DEG	RATE
91	6 29	41.724	2405	25 50	20N	118 15	664881	24722	172 2	56 23	15 18	-0 1	0 34	2.613
92	6 29	44.129	2405	25 40	48N	118 17	665450	24721	172 3	56 23	15 18	-0 1	0 35	2.613
93	6 29	46.538	2410	25 30	74N	118 18	666024	24720	172 4	56 23	15 18	-0 2	0 36	2.607
94	6 29	48.948	2410	25 21	00N	118 20	666601	24718	172 5	56 23	15 17	-0 3	0 36	2.613
95	6 29	51.354	2405	25 11	28N	118 21	667180	24717	172 6	56 23	15 16	-0 3	0 37	2.602
96	6 29	53.769	2415	25 1	52N	118 23	667765	24716	172 8	56 23	15 15	-0 3	0 38	2.601
97	6 29	56.185	2416	24 51	75N	118 24	668353	24714	172 9	56 23	15 14	-0 4	0 39	2.592
98	6 29	58.608	2424	24 41	95N	118 25	668947	24713	172 10	56 23	15 13	-0 4	0 40	2.602
99	6 30	1.023	2415	24 32	19N	118 27	669542	24712	172 11	56 22	15 13	-0 4	0 41	2.595
100	6 30	3.444	2421	24 22	41N	118 28	670142	24710	172 12	56 22	15 12	-0 4	0 42	2.592
101	6 30	5.868	2424	24 12	61N	118 30	670744	24709	172 13	56 22	15 11	-0 4	0 42	2.592
102	6 30	8.293	2425	24 2	81N	118 31	671354	24707	172 14	56 21	15 10	-0 5	0 44	2.591
103	6 30	10.739	2446	23 52	92N	118 33	671970	24706	172 15	56 21	15 9	-0 5	0 45	2.586
104	6 30	13.169	2430	23 43	10N	118 34	672586	24705	172 16	56 21	15 8	-0 5	0 46	2.597
105	6 30	15.589	2419	23 33	32N	118 36	673203	24703	172 18	56 20	15 7	-0 6	0 47	2.564
106	6 30	18.039	2451	23 23	54N	118 37	673830	24702	172 19	56 20	14 57	-0 6	0 48	2.588
107	6 30	20.475	2435	23 13	57N	118 39	674457	24700	172 20	56 19	14 54	-0 6	0 48	2.597
108	6 30	22.894	2419	23 3	79N	118 40	675084	24699	172 21	56 19	14 52	-0 6	0 48	2.575
109	6 30	25.333	2440	22 53	93N	118 41	675719	24697	172 22	56 18	14 48	-0 7	0 49	2.558
110	6 30	27.789	2456	22 44	00N	118 43	676362	24696	172 23	56 17	14 44	-0 7	0 50	2.558
111	6 30	30.234	2445	22 34	12N	118 44	677005	24695	172 24	56 16	14 41	-0 8	0 51	2.570
112	6 30	32.658	2424	22 24	32N	118 46	677646	24693	172 25	56 16	14 41	-0 8	0 51	2.548
113	6 30	35.124	2466	22 14	35N	118 47	678302	24692	172 26	56 15	14 35	-0 9	0 52	2.581
114	6 30	37.559	2434	22 4	51N	118 49	678953	24690	172 27	56 14	14 31	-0 9	0 52	2.548
115	6 30	40.024	2466	21 54	54N	118 50	679615	24689	172 28	56 13	14 29	-0 10	0 52	2.554
116	6 30	42.484	2460	21 44	60N	118 51	680280	24688	172 29	56 12	14 26	-0 11	0 52	2.576
117	6 30	44.924	2439	21 34	74N	118 53	680942	24686	172 30	56 11	14 23	-0 11	0 53	2.576
118	6 30	47.404	2481	21 24	71N	118 54	681619	24684	172 31	56 10	14 21	-0 12	0 54	2.533
119	6 30	49.849	2444	21 14	83N	118 55	682289	24682	172 32	56 9	14 19	-0 12	0 54	2.571
120	6 30	52.313	2465	21 4	87N	118 56	682969	24681	172 33	56 8	14 15	-0 13	0 54	2.527
121	6 30	54.800	2486	20 54	82N	118 58	683658	24679	172 34	56 7	14 14	-0 13	0 54	2.543
122	6 30	57.271	2471	20 44	83N	119 0	684346	24678	172 35	56 5	14 12	-0 13	0 54	2.543
123	6 30	59.729	2458	20 34	90N	119 1	685034	24676	172 36	56 4	14 9	-0 13	0 54	2.556

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

FRAME EPHEMERIS

MISSION 1809-2

LIST DATE 07MAY65

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FRM	2 TIME	DTIM	CAMERA NADR	FORMAT CENTER	ALTITUDE FEET	VELOC F/S	AZIMUTH DEG MI	SUN/ DEG MI	PITCH DEG MIN	ROLL DEG MIN	YAW DEG MIN	SCAN RATE
1	7 51 47.715	0	59 49.71N	59 24N	85	16E	619015	24825	161 34	42 43	15 0	2.011
2	7 51 50.848	3125	59 37.62N	59 12N	85	23E	618866	24825	161 49	42 52	15 2	2.011
3	7 51 53.395	2555	59 27.73N	59 2N	85	29E	618749	24826	161 42	42 58	15 2	2.459
4	7 51 55.784	2390	59 18.48N	58 53N	85	35E	618642	24826	161 55	43 5	15 3	2.629
5	7 51 58.104	2320	59 9.49N	58 44N	85	41E	618541	24826	162 1	43 11	15 4	2.708
6	7 52 0.385	2280	59 0.65N	58 35N	85	46E	618445	24826	162 6	43 17	15 4	2.756
7	7 52 2.654	2270	58 51.84N	58 26N	85	51E	618351	24827	162 12	43 23	15 4	2.768
8	7 52 4.909	2255	58 43.89N	58 17N	85	56E	618261	24827	162 18	43 30	15 4	2.786
9	7 52 7.164	2250	58 34.33N	58 9N	86	2E	618173	24827	162 23	43 36	15 5	2.793
10	7 52 9.414	2250	58 25.59N	58 0N	86	7E	618088	24827	162 29	43 42	15 5	2.799
11	7 52 11.659	2245	58 16.86N	57 51N	86	12E	618005	24827	162 34	43 48	15 5	2.799
12	7 52 13.904	2245	58 8.12N	57 42N	86	17E	617926	24828	162 39	43 54	15 5	2.793
13	7 52 16.154	2250	57 59.37N	57 34N	86	22E	617849	24828	162 45	43 59	15 6	2.805
14	7 52 18.395	2240	57 50.64N	57 25N	86	27E	617774	24828	162 50	44 5	15 6	2.805
15	7 52 20.635	2240	57 41.91N	57 16N	86	32E	617703	24828	162 55	44 11	15 6	2.805
16	7 52 22.874	2245	57 33.18N	57 7N	86	37E	617633	24828	163 0	44 17	15 6	2.799
17	7 52 25.119	2245	57 24.43N	56 59N	86	41E	617567	24829	163 5	44 23	15 6	2.805
18	7 52 27.359	2240	57 15.69N	56 50N	86	46E	617501	24829	163 10	44 29	15 7	2.805
19	7 52 29.600	2240	57 6.94N	56 41N	86	51E	617442	24829	163 16	44 35	15 7	2.811
20	7 52 31.834	2235	56 58.22N	56 32N	86	56E	617382	24829	163 20	44 41	15 7	2.811
21	7 52 34.069	2235	56 49.48N	56 24N	87	WE	617326	24829	163 25	44 46	15 7	2.811
22	7 52 36.305	2235	56 40.74N	56 15N	87	5E	617273	24829	163 30	44 52	15 7	2.805
23	7 52 38.544	2240	56 31.99N	56 6N	87	9E	617222	24829	163 35	44 58	15 7	2.818
24	7 52 40.774	2230	56 23.26N	55 57N	87	14E	617174	24830	163 40	45 4	15 6	2.805
25	7 52 43.015	2230	56 14.49N	55 49N	87	18E	617128	24830	163 45	45 9	15 6	2.818
26	7 52 45.244	2230	56 5.76N	55 40N	87	23E	617084	24830	163 49	45 15	15 6	2.811
27	7 52 47.479	2235	55 57.00N	55 31N	87	27E	617044	24830	163 54	45 21	15 5	2.818
28	7 52 49.709	2230	55 48.27N	55 22N	87	32E	617006	24830	163 59	45 26	15 5	2.805
29	7 52 51.949	2240	55 39.48N	55 14N	87	36E	616971	24830	164 3	45 32	15 5	2.811
30	7 52 54.185	2235	55 30.71N	55 5N	87	40E	616938	24830	164 8	45 38	15 4	2.811
31	7 52 56.419	2235	55 21.95N	54 56N	87	45E	616908	24830	164 12	45 43	15 4	2.811
32	7 52 58.654	2235	55 13.17N	54 47N	87	49E	616884	24830	164 17	45 49	15 3	2.805
33	7 53 0.895	2240	55 4.37N	54 39N	87	53E	616855	24830	164 21	45 55	15 3	2.805
34	7 53 3.135	2240	54 55.57N	54 30N	87	57E	616813	24831	164 26	46 0	15 2	2.818
35	7 53 5.364	2230	54 46.81N	54 21N	88	1E	616797	24831	164 30	46 6	15 2	2.818
36	7 53 7.595	2230	54 38.04N	54 12N	88	5E	616782	24831	164 34	46 11	15 1	2.811
37	7 53 9.829	2235	54 29.25N	54 3N	88	10E	616770	24831	164 39	46 17	15 1	2.818
38	7 53 12.060	2230	54 20.48N	53 55N	88	14E	616755	24831	164 43	46 22	15 1	2.811
39	7 53 14.294	2235	54 11.68N	53 46N	88	18E	616762	24831	164 47	46 28	15 0	2.818
40	7 53 16.524	2230	54 2.90N	53 37N	88	22E	616775	24831	164 51	46 33	15 0	2.818
41	7 53 18.755	2230	53 54.11N	53 28N	88	25E	616750	24831	164 56	46 39	14 59	2.818
42	7 53 20.984	2230	53 45.33N	53 20N	88	29E	616752	24831	165 0	46 44	14 58	2.818
43	7 53 23.215	2230	53 36.54N	53 11N	88	33E	616752	24831	165 4	46 49	14 57	2.818
44	7 53 25.445	2231	53 27.74N	53 2N	88	37E	616756	24831	165 8	46 55	14 56	2.818
45	7 53 27.680	2234	53 18.93N	52 53N	88	41E	616763	24831	165 12	47 0	14 55	2.813

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 1010 FWD 12AUG64
FRAME EPHEMERIS MISSION 1009-2 ID 27 LIST DATE 07MAY65 PAGE 71

FRM	Z TIME	DTIM	CAMERA NADIR	FORMAT CENTER	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN RATE	
HR MI SEC	MILS	DEG MIN LAT	DEG MIN LONG	MIN DEG LAT	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE	
91	7 56 54.671	2275	39 33.31N	92 51.20E	39 6N	93 93	0E	629581	24803	169 43	53 51	15 3	2.762
92	7 56 56.944	2274	39 24.17N	92 53.34E	38 57N	93 93	2E	629581	24803	169 43	53 55	15 3	2.763
93	7 56 59.220	2275	39 15.03N	92 55.47E	38 48N	93 93	4E	629857	24802	169 45	53 58	15 3	2.762
94	7 57 1.494	2275	39 5.88N	92 57.59E	38 39N	93 93	6E	630135	24801	169 47	54 1	15 2	2.762
95	7 57 3.765	2270	38 56.75N	92 59.70E	38 30N	93 93	8E	630415	24801	169 49	54 4	15 2	2.768
96	7 57 6.039	2275	38 47.61N	93 1.80E	38 20N	93 93	10E	630700	24800	169 51	54 7	15 2	2.762
97	7 57 8.315	2276	38 38.45N	93 3.88E	38 11N	93 93	12E	630987	24799	169 53	54 11	15 2	2.761

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

MISSION 1889-2

ID 27

LIST DATE 07MAY65

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PASS 102D FMD 12AU664

FRM	Z 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 22	9.361	60	48.67N	61	26.39E	619729	24823	160	52	42	4	-1 24	1.970
2	9 22	12.551	60	36.39N	61	35.08E	619559	24823	161	1	42	13	-1 23	1.970
3	9 22	15.131	60	26.45N	61	41.97E	619425	24824	161	8	42	20	-1 24	2.435
4	9 22	17.540	60	17.15N	61	48.35E	619304	24824	161	15	42	27	-1 24	2.607
5	9 22	19.881	60	8.12N	61	54.51E	619188	24824	161	21	42	33	-1 24	2.685
6	9 22	22.186	59	59.22N	62	0.50E	619077	24825	161	27	42	39	-1 24	2.726
7	9 22	24.472	59	50.38N	62	6.38E	618970	24825	161	33	42	45	-1 25	2.749
8	9 22	26.750	59	41.57N	62	12.19E	618865	24825	161	39	42	52	-1 25	2.757
9	9 22	29.021	59	32.79N	62	17.93E	618763	24825	161	45	42	58	-1 25	2.768
10	9 22	31.285	59	24.02N	62	23.59E	618664	24826	161	51	43	4	-1 26	2.774
11	9 22	33.551	59	15.25N	62	29.21E	618568	24826	161	57	43	10	-1 26	2.774
12	9 22	35.826	59	6.43N	62	34.79E	618474	24826	162	3	43	16	-1 26	2.761
13	9 22	38.070	58	57.72N	62	40.25E	618384	24826	162	8	43	22	-1 27	2.800
14	9 22	40.347	58	48.89N	62	45.73E	618295	24827	162	14	43	28	-1 27	2.861
15	9 22	42.585	58	40.20N	62	51.08E	618211	24827	162	19	43	34	-1 27	2.886
16	9 22	44.857	58	31.37N	62	56.45E	618127	24827	162	25	43	40	-1 27	2.765
17	9 22	47.096	58	22.67N	63	1.69E	618047	24827	162	30	43	46	-1 28	2.808
18	9 22	49.355	58	13.88N	63	6.94E	617970	24827	162	36	43	52	-1 29	2.780
19	9 22	51.610	58	5.11N	63	12.13E	617895	24828	162	41	43	58	-1 29	2.786
20	9 22	53.865	57	56.33N	63	17.27E	617822	24828	162	46	44	4	-1 30	2.786
21	9 22	56.125	57	47.53N	63	22.38E	617752	24828	162	52	44	10	-1 30	2.780
22	9 22	58.386	57	38.72N	63	27.44E	617685	24828	162	57	44	16	-1 31	2.786
23	9 23	0.641	57	29.93N	63	32.45E	617621	24828	163	2	44	22	-1 32	2.786
24	9 23	2.896	57	21.13N	63	37.41E	617558	24828	163	7	44	28	-1 32	2.786
25	9 23	5.150	57	12.33N	63	42.32E	617499	24829	163	12	44	34	-1 33	2.786
26	9 23	7.410	57	3.51N	63	47.21E	617442	24829	163	17	44	40	-1 33	2.780
27	9 23	9.665	56	54.70N	63	52.04E	617388	24829	163	22	44	46	-1 33	2.786
28	9 23	11.922	56	45.89N	63	56.83E	617336	24829	163	27	44	51	-1 34	2.785
29	9 23	14.181	56	37.05N	64	1.58E	617287	24829	163	32	44	57	-1 34	2.780
30	9 23	16.440	56	28.21N	64	6.30E	617242	24829	163	37	44	3	-1 35	2.786
31	9 23	18.695	56	19.39N	64	10.96E	617198	24829	163	42	45	9	-1 35	2.786
32	9 23	20.955	56	10.54N	64	15.60E	617157	24830	163	47	45	15	-1 36	2.780
33	9 23	23.216	56	1.69N	64	20.19E	617083	24830	163	52	45	20	-1 36	2.780
34	9 23	25.476	55	52.83N	64	24.75E	617020	24830	164	1	45	26	-1 36	2.780
35	9 23	27.735	55	43.98N	64	29.27E	617050	24830	164	6	45	32	-1 37	2.786
36	9 23	29.990	55	35.13N	64	33.74E	616992	24830	164	10	45	38	-1 37	2.779
37	9 23	32.251	55	26.26N	64	38.18E	616922	24830	164	14	45	43	-1 37	2.769
38	9 23	34.521	55	17.36N	64	42.60E	616894	24830	164	15	45	49	-1 38	2.779
39	9 23	36.785	55	8.46N	64	46.98E	616867	24830	164	19	45	55	-1 38	2.774
40	9 23	39.047	54	59.58N	64	51.31E	616945	24830	164	24	45	0	-1 38	2.779
41	9 23	41.311	54	50.68N	64	55.61E	616925	24830	164	28	45	6	-1 39	2.775
42	9 23	43.570	54	41.80N	64	59.87E	616904	24830	164	33	46	12	-1 39	2.780
43	9 23	45.841	54	32.87N	65	4.12E	616883	24830	164	37	46	17	-1 40	2.768
44	9 23	48.106	54	23.96N	65	8.32E	616873	24830	164	41	46	23	-1 40	2.773
45	9 23	50.375	54	15.03N	65	12.49E	616867	24830	164	46	46	28	-1 40	2.769

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT/KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 102D FWD 12AUG64

FRAME EPHEMERIS MISSION 1889-2

ID 27

LIST DATE 07MAY65

PAGE 73

FRM	Z TIME	DTIM	LAT	LONG	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR	MI	SEC	DEG	MIN	MIN	FEET	F/S	DEG	MI	DEG	MIN	RATE
46	9 23	52.641	54	6.11N	65 16.62E	616863	24830	164	50	46	34	2.774
47	9 23	54.985	53	57.19N	65 20.72E	616863	24830	164	54	46	40	2.774
48	9 23	57.170	53	48.27N	65 24.78E	616865	24830	164	58	46	45	2.774

CAMERA NADIR

FORMAT CENTER

MISSION

ID 27

LIST DATE 07MAY65

PAGE 73

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT/KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 103A FWD 12AUG64

FRAME EPHemeris MISSION 1009-2

ID 27

LIST DATE 07MAY65 PAGE 74

FRM	Z 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
1	10	33	27.033	0	38	17.64N	110	16.55W	38	58N	110	5W	930183	24119	9	58	-20	46	ND	ND	ND	ND	1.341
2	10	33	31.718	4684	38	35.97N	110	12.44W	39	16N	110	1W	928230	24123	10	2	-20	31	ND	ND	ND	ND	1.341
3	10	33	35.702	3985	38	51.56N	110	8.91W	39	31N	109	57W	926571	24127	10	5	-20	10	ND	ND	ND	ND	1.577
4	10	33	39.518	3815	39	6.49N	110	5.49W	39	46N	109	54W	924985	24131	10	9	-20	6	ND	ND	ND	ND	1.647
5	10	33	43.277	3760	39	21.28N	110	2.10W	40	1N	109	50W	923424	24134	10	12	-19	53	ND	ND	ND	ND	1.671
6	10	33	46.997	3720	39	35.75N	109	58.71W	40	15N	109	47W	921881	24137	10	15	-19	41	ND	ND	ND	ND	1.689
7	10	33	50.692	3695	39	50.21N	109	55.32W	40	30N	109	43W	920350	24141	10	19	-19	29	ND	ND	ND	ND	1.700
8	10	33	54.378	3686	40	4.63N	109	51.90W	40	44N	109	40W	918828	24144	10	22	-19	17	ND	ND	ND	ND	1.705
9	10	33	58.043	3665	40	18.96N	109	48.47W	40	58N	109	36W	917314	24147	10	25	-19	5	ND	ND	ND	ND	1.714
10	10	34	1.692	3645	40	33.23N	109	45.02W	41	13N	109	33W	915809	24151	10	29	-18	54	ND	ND	ND	ND	1.722
11	10	34	5.337	3649	40	47.49N	109	41.55W	41	27N	109	29W	914308	24154	10	32	-18	42	ND	ND	ND	ND	1.724
12	10	34	8.973	3635	41	1.70N	109	38.05W	41	41N	109	26W	912814	24157	10	36	-18	30	ND	ND	ND	ND	1.729
13	10	34	12.593	3620	41	15.86N	109	34.54W	41	55N	109	22W	911328	24161	10	39	-18	18	ND	ND	ND	ND	1.736
14	10	34	16.287	3615	41	29.99N	109	31.00W	42	9N	109	19W	909847	24164	10	43	-18	6	ND	ND	ND	ND	1.738

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 1120 FWD 13AUG64
FRAME EPHEMERIS
MISSION 1009-2
ID 27
LIST DATE 07MAY65
PAGE 75

FRM	2 TIME	DTIM	CAMERA	NADIR	FORMAT	CENTER	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI SEC	MILS	DEG MIN LAT	DEG MIN LONG	DEG MIN LAT	DEG MIN LONG	FEEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	DEG MIN	RATE
1	0 47 9.389	0	14 52.865	150 26.49W	15	325 150	19W	919072	24144	173	7	40 25	14 49	1.500
2	0 47 13.578	4190	15 9.455	150 24.42W	15	495 150	17W	921242	24139	173	6	40 13	14 47	1.500
3	0 47 17.328	3750	15 24.315	150 22.56W	16	45 150	15W	923186	24135	173	5	40 2	14 46	1.676
4	0 47 20.969	3640	15 36.725	150 20.76W	16	185 150	14W	925078	24130	173	4	39 51	14 45	1.726
5	0 47 24.563	3595	15 52.955	150 18.97W	16	325 150	12W	926919	24126	173	3	39 41	14 43	1.748
6	0 47 28.153	3590	16 7.165	150 17.17W	16	475 150	10W	928019	24122	173	2	39 30	14 42	1.750
7	0 47 31.733	3580	16 21.325	150 15.38W	17	15 150	8W	930688	24118	173	1	39 20	14 41	1.755
8	0 47 35.318	3585	16 35.505	150 13.58W	17	155 150	7W	932562	24114	173	0	39 9	14 40	1.753
9	0 47 38.894	3575	16 49.645	150 11.77W	17	295 150	5W	934433	24109	172	59	38 59	14 39	1.758
10	0 47 42.484	3591	17 3.845	150 9.95W	17	445 150	3W	936316	24105	172	58	38 48	14 38	1.750
11	0 47 46.073	3589	17 18.035	150 8.13W	17	585 150	1W	938200	24101	172	57	38 38	14 37	1.751
12	0 47 49.674	3600	17 32.265	150 6.29W	18	125 149	59W	940093	24097	172	56	38 27	14 37	1.745
13	0 47 53.273	3600	17 46.485	150 4.45W	18	265 149	57W	941987	24092	172	55	38 16	14 36	1.745
14	0 47 56.879	3605	18 0.725	150 2.60W	18	415 149	55W	943889	24088	172	54	38 6	14 36	1.743
15	0 48 0.493	3615	18 15.005	150 0.74W	18	555 149	54W	945796	24084	172	52	37 55	14 36	1.738
16	0 48 4.113	3620	18 29.295	149 58.86W	19	95 149	52W	947709	24080	172	51	37 44	14 36	1.736
17	0 48 7.733	3620	18 43.585	149 56.98W	19	245 149	50W	949625	24075	172	50	37 33	14 36	1.736
18	0 48 11.368	3635	18 57.925	149 55.09W	19	385 149	48W	951551	24071	172	49	37 22	14 35	1.729
19	0 48 15.009	3640	19 12.295	149 53.18W	19	535 149	46W	953483	24067	172	48	37 11	14 35	1.726
20	0 48 18.663	3655	19 26.705	149 51.26W	20	75 149	44W	955423	24062	172	47	37 1	14 34	1.719
21	0 48 22.318	3655	19 41.115	149 49.33W	20	215 149	42W	957368	24058	172	45	36 49	14 34	1.712
22	0 48 25.988	3670	19 55.585	149 47.38W	20	365 149	40W	959321	24054	172	44	36 38	14 34	1.712
23	0 48 29.658	3670	20 10.055	149 45.43W	20	505 149	38W	961277	24049	172	43	36 27	14 33	1.712
24	0 48 33.344	3685	20 24.575	149 43.46W	21	55 149	36W	963244	24045	172	42	36 16	14 32	1.705
25	0 48 37.023	3680	20 39.065	149 41.48W	21	205 149	34W	965210	24040	172	40	36 5	14 32	1.707
26	0 48 40.724	3700	20 53.645	149 39.49W	21	345 149	32W	967189	24036	172	39	35 54	14 31	1.698

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

FRAME EPHEMERIS

MISSION 1009-2

ID 27

LIST DATE 07MAY65

PAGE 76

TCS 04818-05

PASS 11SD FWD 13AUG64

FRM	Z TIME	DTIM	CAMERA	NADR	FORMAT	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI	SEC	MILS	LAT	LONG	MIN DEG	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
1	5	1	38.644	0	54	31.59N	128	36.20E	53	54	53	54	2.148
2	5	1	41.568	2925	54	28.89N	128	41.60E	54	54	54	2.148	
3	5	1	44.083	2515	54	18.19N	128	46.21E	46	46	46	2.498	
4	5	1	46.464	2380	54	0.82N	128	50.53E	47	47	47	2.640	
5	5	1	48.783	2320	53	51.68N	128	54.70E	47	47	47	2.738	
6	5	1	51.078	2295	53	42.64N	128	58.80E	47	47	47	2.768	
7	5	1	53.349	2270	53	24.75N	129	6.80E	47	47	47	2.788	
8	5	1	55.618	2270	53	15.83N	129	18.74E	47	47	47	2.786	
9	5	1	57.879	2260	53	6.94N	129	18.50E	47	47	47	2.793	
10	5	2	0.134	2255	52	58.06N	129	18.50E	47	47	47	2.793	
11	5	2	2.384	2250	52	49.18N	129	22.32E	47	47	47	2.793	
12	5	2	4.634	2250	52	40.29N	129	26.12E	47	47	47	2.793	
13	5	2	6.884	2250	52	31.41N	129	29.89E	47	47	47	2.793	
14	5	2	9.134	2250	52	22.52N	129	33.63E	47	47	47	2.793	
15	5	2	11.384	2250	52	13.60N	129	37.35E	47	47	47	2.793	
16	5	2	13.639	2255	52	4.74N	129	41.02E	47	47	47	2.794	
17	5	2	15.880	2241	52	55.85N	129	44.67E	47	47	47	2.805	
18	5	2	18.129	2249	51	46.99N	129	48.20E	47	47	47	2.805	
19	5	2	20.368	2240	51	38.13N	129	51.87E	47	47	47	2.799	
20	5	2	22.608	2245	51	29.24N	129	55.43E	47	47	47	2.799	
21	5	2	24.854	2245	51	20.35N	129	58.97E	47	47	47	2.799	
22	5	2	27.100	2246	51	11.46N	130	2.40E	47	47	47	2.805	
23	5	2	29.344	2244	51	2.57N	130	5.97E	47	47	47	2.805	
24	5	2	31.589	2245	51	53.69N	130	9.42E	47	47	47	2.793	
25	5	2	33.828	2240	50	44.77N	130	12.86E	47	47	47	2.799	
26	5	2	36.078	2250	50	35.87N	130	16.27E	47	47	47	2.793	
27	5	2	38.323	2245	50	26.95N	130	19.66E	47	47	47	2.799	
28	5	2	40.573	2250	50	18.04N	130	23.02E	47	47	47	2.799	
29	5	2	42.818	2245	50	9.14N	130	26.36E	47	47	47	2.805	
30	5	2	45.063	2245	50	0.25N	130	29.66E	47	47	47	2.805	
31	5	2	47.304	2240	49	51.33N	130	32.95E	47	47	47	2.799	
32	5	2	49.549	2245	49	42.49N	130	36.22E	47	47	47	2.799	
33	5	2	51.799	2250	49	33.49N	130	39.46E	47	47	47	2.799	
34	5	2	54.043	2245	49	24.57N	130	42.67E	47	47	47	2.799	
35	5	2	56.288	2245	49	15.65N	130	45.87E	47	47	47	2.793	
36	5	2	58.533	2245	49	6.72N	130	49.04E	47	47	47	2.799	
37	5	2	0.778	2245	48	57.78N	130	52.20E	47	47	47	2.799	
38	5	2	3.028	2250	48	48.85N	130	55.32E	47	47	47	2.799	
39	5	2	5.273	2245	48	39.98N	130	58.44E	47	47	47	2.799	
40	5	2	7.523	2250	48	30.97N	131	1.52E	47	47	47	2.793	
41	5	2	9.769	2245	48	22.02N	131	4.59E	47	47	47	2.799	
42	5	2	12.019	2250	48	13.08N	131	7.63E	47	47	47	2.793	
43	5	2	14.264	2245	48	4.13N	131	10.66E	47	47	47	2.793	
44	5	2	16.514	2250	47	55.17N	131	13.67E	47	47	47	2.793	
45	5	2	18.764	2250	47	55.17N	131	13.67E	47	47	47	2.793	

TOP SECRET
SPECIAL HANDLING REQUIRED
HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 115D FWD 13AUG64

FRAME EPHEMERIS MISSION 1809-2

ID 27

LIST DATE 07MAY65 PAGE 78

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	DEG	MIN	RATE	
91	5	5	3.068	2290	40	58.11N	133	13.66E	40	31N	133	22E	633715	24791	169	21	54	22	14	43	-0	3	0	2	2.744
92	5	5	5.358	2290	40	48.92N	133	15.94E	40	22N	133	24E	634013	24790	169	23	54	26	14	44	-0	4	0	4	2.744
93	5	5	7.653	2295	40	39.71N	133	18.20E	40	13N	133	26E	634315	24790	169	25	54	30	14	44	-0	4	0	4	2.738
94	5	5	9.948	2295	40	30.50N	133	20.45E	40	4N	133	28E	634621	24789	169	28	54	34	14	44	-0	4	0	5	2.738
95	5	5	12.243	2295	40	21.29N	133	22.69E	39	54N	133	31E	634930	24788	169	30	54	38	14	45	-0	4	0	5	2.738

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

FRAME EPHemerIS MISSION 1009-2

ID 27

LIST DATE 07MAY65

PAGE

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FRM	HR	MI	SEC	DTIM	DEG	LAT	DEG	MIN	LONG	DEG	LAT	DEG	MIN	LONG	ALTITUDE	VELOC	DEG	MI	DEG	SUN/	PITCH	ROLL	YAW	SCAN
136	6	40	15.617	25004	22	22.88N	113	52.56E	58E	692073	24658	172	25	58	24	14	47	-0	15	ND	2.509			
137	6	40	18.117	25008	22	12.79N	113	54.00E	0E	692789	24656	172	26	58	23	14	45	-0	14	ND	2.513			
138	6	40	20.622	25005	22	2.68N	113	55.44E	1E	693510	24655	172	27	58	23	14	44	-0	13	ND	2.508			
139	6	40	23.133	2510	21	52.55N	113	56.87E	2E	694237	24653	172	28	58	22	14	42	-0	11	ND	2.503			
140	6	40	25.643	2510	21	42.42N	113	58.31E	4E	694966	24651	172	29	58	21	14	40	-0	8	ND	2.503			
141	6	40	28.152	2510	21	32.28N	113	59.73E	5E	695699	24650	172	30	58	20	14	38	-0	7	ND	2.497			
142	6	40	30.668	2516	21	22.13N	114	1.16E	7E	696437	24648	172	31	58	19	14	36	-0	5	ND	2.489			
143	6	40	33.192	2524	21	11.94N	114	2.58E	8E	697180	24646	172	32	58	18	14	34	-0	4	ND	2.483			
144	6	40	35.713	2520	21	1.77N	114	4.00E	10E	697927	24645	172	33	58	17	14	32	-0	3	ND	2.482			
145	6	40	38.242	2530	20	51.56N	114	5.42E	11E	698679	24643	172	34	58	16	14	30	-0	2	ND	2.484			
146	6	40	40.764	2521	20	41.38N	114	6.83E	13E	699432	24641	172	35	58	15	14	29	-0	2	ND	2.478			
147	6	40	43.292	2529	20	31.18N	114	8.24E	14E	700191	24639	172	36	58	14	14	28	-0	2	ND	2.475			
148	6	40	45.828	2536	20	20.94N	114	9.65E	15E	700955	24638	172	37	58	14	14	27	-0	2	ND	2.475			
149	6	40	48.367	2539	20	10.69N	114	11.05E	17E	701725	24636	172	38	58	12	14	27	-0	2	ND	2.475			

SPECIAL HANDLING REQUIRED

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 1170 FWD 13AUG64

FRAME EPHEMERIS MISSION 1809-2

ID 27

LIST DATE 07MAY65 PAGE 83

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
1	3	1.697	53	45.85N	83	28.97E	619295	24823	165	0	47	17	15	2.02
2	3	4.798	53	33.63N	83	26.46E	619386	24823	165	5	47	25	15	2.02
3	3	7.362	53	23.52N	83	30.96E	619465	24823	165	10	47	32	15	2.45
4	3	9.758	53	14.07N	83	35.13E	619542	24822	165	14	47	38	15	2.62
5	3	12.093	53	4.86N	83	39.16E	619620	24822	165	18	47	44	15	2.69
6	3	14.389	53	55.88N	83	43.09E	619699	24822	165	22	47	50	15	2.73
7	3	16.673	52	46.78N	83	46.97E	619781	24822	165	26	47	56	15	2.75
8	3	18.942	52	37.82N	83	50.79E	619865	24822	165	30	48	2	15	2.76
9	3	21.224	52	28.81N	83	54.60E	619952	24822	165	34	48	8	15	2.75
10	3	23.473	52	19.92N	83	58.33E	620041	24821	165	38	48	14	15	2.79
11	3	25.732	52	10.99N	84	2.05E	620132	24821	165	42	48	20	15	2.78
12	3	27.997	52	2.04N	84	5.75E	620227	24821	165	46	48	25	15	2.77
13	3	30.252	51	53.12N	84	9.40E	620324	24821	165	50	48	31	15	2.78
14	3	32.513	51	44.18N	84	13.04E	620424	24821	165	53	48	37	15	2.78
15	3	34.768	51	35.25N	84	16.64E	620526	24820	165	57	48	43	15	2.78
16	3	37.022	51	26.33N	84	20.21E	620631	24820	166	1	48	48	15	2.79
17	3	39.272	51	17.42N	84	23.75E	620738	24820	166	4	48	54	15	2.78
18	3	41.527	51	8.49N	84	27.26E	620848	24820	166	8	49	0	15	2.78
19	3	43.782	50	59.56N	84	30.76E	620961	24819	166	12	49	5	15	2.78
20	3	46.037	50	50.62N	84	34.22E	621077	24819	166	15	49	11	15	2.78
21	3	48.292	50	41.68N	84	37.66E	621196	24819	166	19	49	16	15	2.78
22	3	50.542	50	32.76N	84	41.09E	621317	24819	166	22	49	22	15	2.79
23	3	52.798	50	23.82N	84	44.46E	621441	24818	166	26	49	28	15	2.78
24	3	55.053	50	14.87N	84	47.83E	621567	24818	166	29	49	33	15	2.78
25	3	57.308	50	5.93N	84	51.17E	621697	24818	166	33	49	39	15	2.78
26	3	59.563	49	56.98N	84	54.48E	621829	24818	166	36	49	44	15	2.78
27	4	1.813	49	48.04N	84	57.77E	621964	24817	166	39	49	50	15	2.79
28	4	4.067	49	39.09N	84	4.04E	622101	24817	166	43	49	55	15	2.78
29	4	6.322	49	30.13N	85	4.28E	622241	24817	166	46	50	1	15	2.78
30	4	8.577	49	21.18N	85	7.51E	622384	24816	166	49	50	6	15	2.78
31	4	10.832	49	12.22N	85	10.71E	622529	24816	166	53	50	11	15	2.78
32	4	13.088	49	3.25N	85	13.88E	622678	24816	166	56	50	17	15	2.78
33	4	15.348	48	54.27N	85	17.05E	622830	24815	166	59	50	22	15	2.78
34	4	17.603	48	45.30N	85	20.18E	622984	24815	167	2	50	28	15	2.78
35	4	19.857	48	36.33N	85	23.29E	623141	24815	167	6	50	33	15	2.78
36	4	22.117	48	27.34N	85	26.38E	623300	24814	167	9	50	38	15	2.78
37	4	24.372	48	18.37N	85	29.45E	623462	24814	167	12	50	43	15	2.78
38	4	26.633	48	9.37N	85	32.50E	623628	24814	167	15	50	49	15	2.78
39	4	28.888	48	0.40N	85	35.53E	623795	24813	167	18	50	54	15	2.78
40	4	31.143	47	51.42N	85	38.53E	623966	24813	167	21	50	59	15	2.78
41	4	33.397	47	42.44N	85	41.52E	624139	24812	167	24	51	4	14	2.78
42	4	35.657	47	33.44N	85	44.49E	624316	24812	167	27	51	10	14	2.78
43	4	37.912	47	24.45N	85	47.43E	624494	24812	167	30	51	15	14	2.78
44	4	40.173	47	15.44N	85	50.36E	624676	24811	167	33	51	20	14	2.78
45	4	42.428	47	6.46N	85	53.26E	624860	24811	167	36	51	25	14	2.78

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

FRM	HR	MI	SEC	DTIM	DEG	LAT	DEG	LONG	DEG	LAT	DEG	MIN	DEG	MIN	FEET	F/S	DEG	MI	DEG	MI	DEG	MIN	PITCH	DEG	MIN	ROLL	DEG	MIN	YAW	DEG	MIN	SCAN	
PASS	11	80	FWD	13	AUG	64																											
46	9	35	51.938	2275	44	51.08N	63	46.53E	44	25N	63	56E	628405	24803	168	18	52	43	14	36	0	11	14	36	0	11	ND			2.762			
47	9	35	54.212	2275	44	41.99N	63	49.17E	44	16N	63	59E	628639	24802	168	21	52	48	14	38	0	11	14	38	0	11	ND			2.762			
48	9	35	56.482	2270	44	32.91N	63	51.79E	44	7N	64	1E	628877	24802	168	24	52	53	14	39	0	11	14	39	0	11	ND			2.768			
49	9	35	58.758	2275	44	23.81N	63	54.39E	43	58N	64	4E	629117	24801	168	26	52	58	14	40	0	11	14	40	0	11	ND			2.762			
50	9	36	1.032	2275	44	14.72N	63	56.98E	43	48N	64	7E	629360	24801	168	29	53	2	14	41	0	11	14	41	0	11	ND			2.756			
51	9	36	3.313	2280	44	5.68N	63	59.56E	43	39N	64	9E	629606	24800	168	31	53	7	14	41	0	11	14	41	0	11	ND			2.756			
52	9	36	5.583	2271	43	56.51N	64	2.11E	43	30N	64	12E	629855	24799	168	34	53	12	14	41	0	11	14	41	0	11	ND			2.767			
53	9	36	7.867	2284	43	47.37N	64	4.66E	43	21N	64	14E	630108	24799	168	37	53	17	14	41	0	11	14	41	0	11	ND			2.751			
54	9	36	10.147	2280	43	38.25N	64	7.19E	43	12N	64	17E	630363	24798	168	39	53	21	14	42	0	11	14	42	0	11	ND			2.756			
55	9	36	12.428	2280	43	29.12N	64	9.70E	43	0.3N	64	19E	630620	24798	168	42	53	26	14	42	0	11	14	42	0	11	ND			2.756			
56	9	36	14.702	2275	43	20.02N	64	12.19E	42	54N	64	22E	630881	24797	168	44	53	30	14	42	0	11	14	42	0	11	ND			2.762			
57	9	36	16.982	2280	43	10.89N	64	14.68E	42	44N	64	24E	631144	24796	168	47	53	35	14	41	0	11	14	41	0	11	ND			2.756			
58	9	36	19.263	2280	43	1.76N	64	17.14E	42	35N	64	26E	631411	24796	168	49	53	39	14	41	0	11	14	41	0	11	ND			2.756			
59	9	36	21.548	2285	42	52.61N	64	19.60E	42	26N	64	29E	631681	24795	168	52	53	44	14	41	0	11	14	41	0	11	ND			2.750			

FRAME EPHEMERIS MISSION 1809-2 ID 27 LIST DATE 07MAY65 PAGE 86

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

PART II

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 490 AFT 9AUG64

FRAME EPHMERIS MISSION 1809-2

ID 27

LIST DATE 07MAY65 PAGE 87

FRM	Z TIME		DTIM	CAMERA NADIR			FORMAT CENTER			ALTITUDE			VELOC			AZIMUTH			SUN/			PITCH			ROLL			YAW			SCAN RATE
	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	DEG	MIN	DEG	MIN		
5	1	27	45.802	49456	20	38.61N	157	18.20W	21	7N	157	24W	644109	24776	172	34	49	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011			
6	1	27	47.964	2962	20	26.59N	157	16.54W	20	55N	157	22W	644724	24775	172	36	49	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.121			
7	1	27	50.575	2612	20	15.99N	157	15.08W	20	44N	157	21W	645272	24774	172	37	49	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.406			
8	1	27	53.097	2521	20	5.75N	157	13.68W	20	34N	157	19W	645804	24772	172	37	49	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.492			
9	1	27	55.551	2454	19	55.80N	157	12.31W	20	24N	157	18W	646326	24771	172	38	49	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.560			
10	1	27	57.998	2448	19	45.86N	157	10.96W	20	14N	157	17W	646851	24770	172	39	49	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.567			
11	1	28	0.426	2427	19	36.01N	157	9.62W	20	4N	157	15W	647375	24769	172	40	48	58	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.589			
12	1	28	2.841	2415	19	26.21N	157	8.29W	19	54N	157	14W	647900	24768	172	41	48	56	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.607			
13	1	28	5.264	2423	19	16.38N	157	6.96W	19	44N	157	13W	648431	24766	172	42	48	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.583			
14	1	28	7.677	2413	19	6.58N	157	5.64W	19	35N	157	11W	648963	24765	172	43	48	52	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.608			
15	1	28	10.094	2417	18	56.77N	157	4.32W	19	25N	157	10W	649500	24764	172	44	48	48	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.608			
16	1	28	12.505	2411	18	46.99N	157	3.01W	19	15N	157	9W	650039	24763	172	44	48	48	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.608			
17	1	28	14.905	2401	18	37.25N	157	1.71W	19	5N	157	7W	650579	24761	172	45	48	46	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.608			
18	1	28	17.320	2415	18	27.45N	157	0.41W	18	56N	157	6W	651127	24760	172	46	48	43	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.608			

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 520 AFT 9AUG64

FRAME EPHMERIS MISSION 1089-2

ID 27

LIST DATE 07MAY65 PAGE 89

FRM	Z TIME HR MI SEC	DTIM MILS	CAMERA LAT DEG MIN	NADIR DEG LONG MIN	FORMAT LAT MIN DEG	CENTER LONG MIN	ALTITUDE FEET	VELOC F/S	AZIMUTH DEG	SUN/ MI DEG	PITCH DEG	ROLL MIN	YAW DEG	SCAN RATE
46	5 48 34.185	2397	65 17.52N	118 27.14E	65 43N	117 59E	642755	24775	156	57	37	39	ND	2.621
47	5 48 36.569	2385	65 8.68N	118 36.15E	65 34N	118 9E	642325	24776	157	6	37	45	ND	2.534
48	5 48 38.954	2385	64 59.66N	118 45.86E	65 26N	118 18E	641899	24777	157	15	37	58	ND	2.634
49	5 48 41.338	2383	64 50.72N	118 53.86E	65 17N	118 27E	641474	24778	157	24	37	56	ND	2.637
50	5 48 43.784	2367	64 41.84N	119 2.50E	65 8N	118 36E	641056	24779	157	33	38	2	ND	2.654
51	5 48 46.077	2373	64 32.92N	119 11.85E	64 59N	118 45E	640639	24780	157	42	38	8	ND	2.648
52	5 48 48.439	2362	64 24.03N	119 19.47E	64 50N	118 53E	640227	24781	157	58	38	13	ND	2.668
53	5 48 50.808	2368	64 15.11N	119 27.82E	64 41N	119 2E	639816	24781	157	59	38	19	ND	2.653
54	5 48 53.159	2352	64 6.24N	119 36.01E	64 32N	119 11E	639411	24782	158	7	38	25	ND	2.671
55	5 48 55.515	2355	63 57.35N	119 44.12E	64 23N	119 19E	639008	24783	158	16	38	30	ND	2.668
56	5 48 57.869	2355	63 48.46N	119 52.14E	64 14N	119 27E	638607	24784	158	24	38	36	ND	2.668
57	5 49 0.220	2350	63 39.57N	120 8.86E	64 6N	119 35E	638210	24785	158	32	38	41	ND	2.674
58	5 49 2.574	2355	63 30.65N	120 7.90E	63 57N	119 44E	637814	24786	158	40	38	47	ND	2.668
59	5 49 4.920	2345	63 21.76N	120 15.62E	63 48N	119 52E	637423	24787	158	48	38	53	ND	2.679
60	5 49 7.272	2353	63 12.84N	120 23.29E	63 39N	119 59E	637034	24788	158	56	38	58	ND	2.678
61	5 49 9.614	2342	63 3.94N	120 30.83E	63 30N	120 7E	636649	24789	159	4	39	4	ND	2.683
62	5 49 11.959	2345	62 55.03N	120 38.30E	63 21N	120 15E	636265	24790	159	12	39	9	ND	2.679
63	5 49 14.300	2340	62 46.13N	120 45.68E	63 12N	120 23E	635884	24791	159	19	39	15	ND	2.685
64	5 49 16.652	2335	62 37.17N	120 53.01E	63 3N	120 30E	635506	24792	159	27	39	20	ND	2.678
65	5 49 18.984	2332	62 28.29N	121 8.21E	62 54N	120 38E	635133	24793	159	34	39	26	ND	2.694
66	5 49 21.324	2340	62 19.36N	121 7.35E	62 45N	120 45E	634761	24793	159	42	39	31	ND	2.685
67	5 49 23.668	2336	62 10.45N	121 14.40E	62 36N	120 52E	634392	24794	159	49	39	36	ND	2.690
68	5 49 26.008	2347	62 1.48N	121 21.41E	62 28N	121 0E	634024	24795	159	56	39	42	ND	2.677
69	5 49 28.348	2340	61 52.53N	121 28.33E	62 19N	121 7E	633660	24796	160	3	39	47	ND	2.685
70	5 49 30.683	2335	61 43.68N	121 35.16E	62 10N	121 14E	633300	24797	160	10	39	53	ND	2.691
71	5 49 33.018	2335	61 34.65N	121 41.92E	62 1N	121 21E	632942	24798	160	17	39	58	ND	2.691
72	5 49 35.353	2335	61 25.79N	121 48.61E	61 52N	121 28E	632587	24799	160	24	40	3	ND	2.691
73	5 49 37.678	2325	61 16.79N	121 55.20E	61 43N	121 34E	632236	24799	160	31	40	9	ND	2.691
74	5 49 40.013	2335	61 7.82N	122 1.75E	61 34N	121 41E	631886	24800	160	38	40	14	ND	2.702
75	5 49 42.329	2317	60 58.93N	122 8.18E	61 25N	121 48E	631542	24801	160	44	40	19	ND	2.691
76	5 49 44.667	2338	60 49.94N	122 14.61E	61 16N	121 54E	631197	24802	160	51	40	24	ND	2.687
77	5 49 46.984	2317	60 41.82N	122 20.92E	61 7N	122 1E	630858	24803	160	58	40	30	ND	2.712
78	5 49 49.318	2325	60 32.87N	122 27.19E	60 58N	122 7E	630521	24803	161	4	40	35	ND	2.702
79	5 49 51.631	2321	60 23.13N	122 33.53E	60 49N	122 14E	630186	24804	161	10	40	40	ND	2.707
80	5 49 53.964	2333	60 14.14N	122 39.54E	60 40N	122 20E	629852	24805	161	17	40	45	ND	2.693
81	5 49 56.279	2316	60 5.21N	122 45.59E	60 31N	122 26E	629525	24806	161	23	40	50	ND	2.713
82	5 49 58.600	2320	59 56.25N	122 51.60E	60 22N	122 33E	629198	24807	161	29	40	55	ND	2.708
83	5 50 0.924	2324	59 47.27N	122 57.56E	60 13N	122 39E	628874	24807	161	35	41	1	ND	2.704
84	5 50 3.242	2319	59 38.31N	123 3.45E	60 4N	122 45E	628554	24808	161	41	41	6	ND	2.709
85	5 50 5.563	2320	59 29.34N	123 9.28E	59 55N	122 51E	628236	24809	161	47	41	11	ND	2.708
86	5 50 7.883	2320	59 20.36N	123 15.06E	59 46N	122 57E	627921	24810	161	53	41	16	ND	2.708
87	5 50 10.202	2320	59 11.38N	123 20.78E	59 37N	123 3E	627608	24810	161	59	41	21	ND	2.708
88	5 50 12.510	2307	59 2.44N	123 26.42E	59 28N	123 8E	627300	24811	162	5	41	26	ND	2.724
89	5 50 14.825	2316	58 53.46N	123 32.02E	59 20N	123 14E	626993	24812	162	11	41	31	ND	2.713
90	5 50 17.145	2319	58 44.46N	123 37.58E	59 11N	123 20E	626689	24813	162	17	41	36	ND	2.789

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 52D AFT 9AUG64

FRAME EPHIMERIS MISSION 1889-2

ID 27

LIST DATE 07MAY65

PAGE 90

FRM	Z TIME	DTIM	CAMERA NADIR	FORMAT CENTER	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN RATE
HR MI	SEC	MILS	LAT DEG MIN LONG DEG MIN	LAT DEG MIN LONG DEG MIN	FEET	F/S	DEG MI DEG MI	MI	MIN	MIN	MIN	RATE
91	5 50	19.454	58 35.50N 123 43.06E	59 2N 123 26E	626388	24813	162 22	41 41	ND	ND	ND	2.720
92	5 50	21.770	58 26.50N 123 48.51E	58 53N 123 31E	626090	24814	162 28	41 46	ND	ND	ND	2.714
93	5 50	24.088	58 17.49N 123 53.91E	58 44N 123 37E	625795	24815	162 34	41 51	ND	ND	ND	2.711
94	5 50	26.397	58 8.51N 123 59.24E	58 35N 123 42E	625502	24815	162 39	41 56	ND	ND	ND	2.720
95	5 50	28.699	57 59.56N 124 4.58E	58 26N 123 48E	625214	24816	162 45	42 1	ND	ND	ND	2.729
96	5 50	31.018	57 50.54N 124 9.75E	58 17N 123 53E	624927	24817	162 50	42 5	ND	ND	ND	2.711
97	5 50	33.319	57 41.57N 124 14.92E	58 8N 123 58E	624644	24817	162 55	42 10	ND	ND	ND	2.729
98	5 50	35.630	57 32.57N 124 20.06E	57 59N 124 4E	624362	24818	163 1	42 15	ND	ND	ND	2.720
99	5 50	37.935	57 23.58N 124 25.14E	57 50N 124 9E	624085	24819	163 6	42 20	ND	ND	ND	2.726
100	5 50	40.247	57 14.56N 124 30.19E	57 41N 124 14E	623809	24819	163 11	42 25	ND	ND	ND	2.716
101	5 50	42.540	57 5.61N 124 35.16E	57 32N 124 19E	623538	24820	163 16	42 30	ND	ND	ND	2.740
102	5 50	44.857	56 56.57N 124 40.13E	57 23N 124 24E	623267	24821	163 21	42 34	ND	ND	ND	2.712
103	5 50	47.163	56 47.56N 124 45.03E	57 14N 124 29E	623000	24821	163 27	42 39	ND	ND	ND	2.725
104	5 50	49.468	56 38.55N 124 49.09E	57 5N 124 34E	622737	24822	163 32	42 44	ND	ND	ND	2.727
105	5 50	51.768	56 29.56N 124 54.09E	56 56N 124 39E	622476	24823	163 37	42 49	ND	ND	ND	2.732
106	5 50	54.072	56 20.54N 124 59.47E	56 47N 124 44E	622218	24824	163 41	42 53	ND	ND	ND	2.726
107	5 50	56.377	56 11.52N 125 4.28E	56 38N 124 49E	621962	24824	163 46	42 58	ND	ND	ND	2.726
108	5 50	58.671	56 2.54N 125 8.86E	56 29N 124 54E	621710	24824	163 51	43 3	ND	ND	ND	2.740
109	5 51	0.975	55 53.52N 125 13.51E	56 20N 124 58E	621460	24825	163 56	43 7	ND	ND	ND	2.727
110	5 51	3.274	55 44.50N 125 18.11E	56 11N 125 3E	621214	24826	164 1	43 12	ND	ND	ND	2.732
111	5 51	5.577	55 35.47N 125 22.67E	56 2N 125 8E	620970	24826	164 5	43 16	ND	ND	ND	2.728
112	5 51	7.869	55 26.48N 125 27.18E	55 53N 125 13E	620729	24827	164 10	43 21	ND	ND	ND	2.741
113	5 51	10.173	55 17.44N 125 31.67E	55 44N 125 17E	620491	24827	164 15	43 26	ND	ND	ND	2.728
114	5 51	12.473	55 8.44N 125 36.11E	55 35N 125 22E	620256	24828	164 19	43 30	ND	ND	ND	2.732
115	5 51	14.768	54 59.43N 125 40.49E	55 26N 125 26E	620025	24828	164 24	43 35	ND	ND	ND	2.747
116	5 51	17.067	54 50.83N 125 44.88E	55 16N 125 31E	619794	24829	164 28	43 39	ND	ND	ND	2.722
117	5 51	19.354	54 41.37N 125 49.19E	55 7N 125 35E	619568	24830	164 33	43 44	ND	ND	ND	2.747
118	5 51	21.662	54 32.30N 125 53.50E	54 58N 125 40E	619344	24830	164 37	43 48	ND	ND	ND	2.722
119	5 51	23.949	54 23.30N 125 57.74E	54 49N 125 44E	619123	24831	164 42	43 52	ND	ND	ND	2.747
120	5 51	26.252	54 14.24N 126 1.97E	54 40N 125 48E	618905	24831	164 46	43 57	ND	ND	ND	2.728
121	5 51	28.539	54 5.23N 126 6.14E	54 31N 125 52E	618690	24832	164 50	44 1	ND	ND	ND	2.747
122	5 51	30.843	53 57.61N 126 10.43E	54 22N 125 57E	618478	24832	164 55	44 6	ND	ND	ND	2.728
123	5 51	33.134	53 48.13N 126 14.74E	54 13N 126 1E	618269	24833	164 59	44 10	ND	ND	ND	2.743
124	5 51	35.420	53 38.12N 126 18.47E	54 4N 126 5E	618063	24833	165 3	44 14	ND	ND	ND	2.749
125	5 51	37.710	53 29.09N 126 22.51E	53 55N 126 9E	617860	24834	165 7	44 19	ND	ND	ND	2.743
126	5 51	40.013	53 20.01N 126 26.54E	53 46N 126 13E	617659	24834	165 11	44 23	ND	ND	ND	2.729
127	5 51	42.300	53 10.96N 126 30.51E	53 37N 126 17E	617461	24835	165 16	44 27	ND	ND	ND	2.747
128	5 51	44.590	53 1.94N 126 34.45E	53 28N 126 21E	617266	24835	165 20	44 31	ND	ND	ND	2.744
129	5 51	46.880	52 52.87N 126 38.38E	53 19N 126 25E	617074	24836	165 24	44 36	ND	ND	ND	2.734
130	5 51	49.178	52 43.82N 126 42.26E	53 10N 126 29E	616885	24836	165 28	44 40	ND	ND	ND	2.744
131	5 51	51.468	52 34.77N 126 46.11E	53 1N 126 33E	616699	24836	165 32	44 44	ND	ND	ND	2.744
132	5 51	53.758	52 25.72N 126 49.93E	52 52N 126 37E	616516	24837	165 36	44 48	ND	ND	ND	2.744
133	5 51	56.045	52 16.68N 126 53.71E	52 43N 126 41E	616336	24837	165 39	44 52	ND	ND	ND	2.747
134	5 51	58.334	52 7.62N 126 57.47E	52 34N 126 45E	616159	24838	165 43	44 56	ND	ND	ND	2.744
135	5 52	0.619	51 58.58N 127 1.19E	52 25N 126 49E	615985	24838	165 47	45 0	ND	ND	ND	2.750

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 52D AFT 9AUG64

FRAME EPHEMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65 PAGE 92

FRM	Z TIME		DTIM MILS	CAMERA		NADR		LONG		LAT		FORMAT CENTER		ALTITUDE FEET	VELOC F/S	AZIMUTH DEG	SUN/MI DEG	PITCH DEG	ROLL DEG	YAW DEG	SCAN RATE
	HR	MI		SEC	DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	DEG								
181	5	54	22.270	42	33.46N	130	6.93E	42	50N	129	50E	611820	24851	168	56	48	29	ND	ND	ND	2.745
182	5	54	24.568	42	24.23N	130	9.37E	42	50N	130	1E	611038	24851	168	59	48	32	ND	ND	ND	2.733
183	5	54	26.857	42	15.04N	130	11.78E	42	41N	130	3E	611057	24851	169	1	48	34	ND	ND	ND	2.745
184	5	54	29.147	42	5.04N	130	14.17E	42	32N	130	6E	611080	24851	169	3	48	37	ND	ND	ND	2.744
185	5	54	31.438	41	56.64N	130	16.55E	42	23N	130	8E	611186	24851	169	6	48	39	ND	ND	ND	2.753
186	5	54	33.720	41	47.47N	130	18.91E	42	14N	130	11E	611136	24851	169	8	48	42	ND	ND	ND	2.744
187	5	54	36.010	41	38.26N	130	21.26E	42	5N	130	13E	611168	24851	169	11	48	44	ND	ND	ND	2.744
188	5	54	38.313	41	29.01N	130	23.62E	41	55N	130	15E	611204	24851	169	13	48	47	ND	ND	ND	2.728
189	5	54	40.590	41	19.85N	130	25.93E	41	46N	130	18E	611242	24850	169	15	48	49	ND	ND	ND	2.759
190	5	54	42.889	41	10.61N	130	28.25E	41	37N	130	20E	611285	24850	169	17	48	51	ND	ND	ND	2.733
191	5	54	45.183	41	1.39N	130	30.55E	41	28N	130	22E	611330	24850	169	20	48	54	ND	ND	ND	2.739
192	5	54	47.465	40	52.21N	130	32.83E	41	18N	130	25E	611379	24850	169	22	48	56	ND	ND	ND	2.750
193	5	54	49.749	40	43.02N	130	35.09E	41	9N	130	27E	611431	24850	169	24	48	58	ND	ND	ND	2.716
194	5	54	52.063	40	33.71N	130	37.38E	41	0N	130	29E	611486	24850	169	26	49	0	ND	ND	ND	2.747
195	5	54	54.350	40	24.51N	130	39.62E	40	51N	130	32E	611544	24850	169	29	49	3	ND	ND	ND	2.734
196	5	54	56.647	40	15.26N	130	41.86E	40	42N	130	34E	611606	24850	169	31	49	5	ND	ND	ND	2.734
197	5	54	58.942	40	6.03N	130	44.08E	40	32N	130	36E	611670	24850	169	33	49	7	ND	ND	ND	2.738
198	5	55	1.229	39	56.82N	130	46.29E	40	23N	130	38E	611738	24849	169	35	49	9	ND	ND	ND	2.734
199	5	55	3.527	39	47.57N	130	48.49E	40	14N	130	41E	611809	24849	169	37	49	11	ND	ND	ND	2.734
200	5	55	5.818	39	38.35N	130	50.67E	40	5N	130	43E	611884	24849	169	39	49	13	ND	ND	ND	2.743
201	5	55	8.104	39	29.14N	130	52.84E	39	55N	130	45E	611961	24849	169	42	49	15	ND	ND	ND	2.749
202	5	55	10.412	39	19.85N	130	55.02E	39	46N	130	47E	612042	24849	169	44	49	17	ND	ND	ND	2.722
203	5	55	12.699	39	10.64N	130	57.16E	39	37N	130	49E	612126	24849	169	46	49	19	ND	ND	ND	2.747
204	5	55	14.988	39	1.42N	130	59.29E	39	28N	130	52E	612214	24848	169	48	49	21	ND	ND	ND	2.745

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 53D AFT 9AUG64

FRAME EPHEMERIS

MISSION 1009-2

ID 27

LIST DATE 07MAY65 PAGE 94

FRM	Z TIME	DTIM	CAMERA		NADIR		FORMAT		CENTER		ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
			MILS	DEG	DEG	LONG	LAT	DEG	MIN	DEG								
46	7 18 17.419	2482	68	48.67N	91	22.92E	69	14N	45E	653271	24750	152	35	35	16	ND	2.616	
47	7 18 19.832	2413	68	39.97N	91	26.30E	69	5N	58E	652778	24751	152	48	35	22	ND	2.684	
48	7 18 22.232	2408	68	31.30N	91	47.45E	68	57N	91	11E	652291	24752	153	0	35	28	ND	2.618
49	7 18 24.620	2388	68	22.66N	91	59.37E	68	48N	91	23E	651809	24753	153	13	35	35	ND	2.631
50	7 18 27.032	2412	68	13.91N	92	11.25E	68	39N	91	35E	651324	24754	153	25	35	41	ND	2.685
51	7 18 29.423	2398	68	5.22N	92	22.87E	68	31N	91	47E	650846	24755	153	37	35	47	ND	2.629
52	7 18 31.818	2396	67	56.51N	92	34.36E	68	22N	91	59E	650370	24757	153	49	35	53	ND	2.622
53	7 18 34.204	2386	67	47.81N	92	45.66E	68	13N	92	11E	649898	24758	154	0	35	59	ND	2.653
54	7 18 36.600	2395	67	39.06N	92	56.86E	68	5N	92	23E	649427	24759	154	12	36	5	ND	2.623
55	7 18 38.989	2390	67	30.32N	93	7.88E	67	56N	92	34E	648959	24760	154	23	36	11	ND	2.629
56	7 18 41.388	2398	67	21.53N	93	18.81E	67	47N	92	46E	648493	24761	154	34	36	17	ND	2.620
57	7 18 43.773	2386	67	12.78N	93	29.53E	67	38N	92	57E	648031	24762	154	45	36	23	ND	2.633
58	7 18 46.154	2381	67	4.03N	93	40.10E	67	30N	93	8E	647573	24763	154	56	36	29	ND	2.639
59	7 18 48.539	2385	66	55.25N	93	50.55E	67	21N	93	19E	647117	24764	155	7	36	35	ND	2.634
60	7 18 50.919	2380	66	46.47N	94	0.86E	67	12N	93	29E	646664	24765	155	17	36	41	ND	2.640
61	7 18 53.305	2385	66	37.67N	94	11.05E	67	3N	93	40E	646212	24766	155	28	36	47	ND	2.634
62	7 18 55.692	2380	66	28.84N	94	21.13E	66	55N	93	50E	645763	24767	155	38	36	53	ND	2.631
63	7 18 58.072	2388	66	20.03N	94	31.05E	66	46N	94	1E	645318	24768	155	48	36	59	ND	2.640
64	0 0.439	2367	66	11.25N	94	40.80E	66	37N	94	11E	644877	24769	155	58	37	5	ND	2.654
65	7 19 2.814	2375	66	2.43N	94	50.46E	66	28N	94	21E	644438	24771	156	8	37	11	ND	2.646
66	7 19 5.197	2383	65	53.57N	95	0.04E	66	19N	94	31E	644008	24772	156	18	37	17	ND	2.637
67	7 19 7.560	2362	65	44.78N	95	9.42E	66	11N	94	40E	643569	24773	156	28	37	23	ND	2.660
68	7 19 9.931	2371	65	35.94N	95	18.72E	66	2N	94	50E	643138	24774	156	37	37	29	ND	2.650
69	7 19 12.300	2369	65	27.00N	95	27.90E	66	53N	95	0E	642710	24775	156	47	37	34	ND	2.652
70	7 19 14.671	2371	65	18.24N	95	36.98E	65	44N	95	9E	642285	24776	156	56	37	40	ND	2.650
71	7 19 17.048	2377	65	9.35N	95	45.97E	65	35N	95	18E	641860	24777	157	5	37	46	ND	2.643
72	7 19 19.417	2370	65	0.47N	95	54.83E	65	26N	95	28E	641441	24779	157	14	37	52	ND	2.651
73	7 19 21.774	2357	64	51.63N	96	3.54E	65	18N	95	37E	641025	24781	157	23	37	58	ND	2.666
74	7 19 24.148	2365	64	42.75N	96	12.08E	65	9N	95	46E	640612	24780	157	32	38	3	ND	2.657
75	7 19 26.508	2368	64	33.85N	96	20.73E	65	0N	95	54E	640200	24780	157	41	38	9	ND	2.653
76	7 19 28.872	2365	64	24.96N	96	29.17E	64	51N	96	3E	639790	24781	157	50	38	15	ND	2.657
77	7 19 31.225	2352	64	16.10N	96	37.47E	64	42N	96	12E	639386	24782	157	58	38	20	ND	2.671
78	7 19 33.580	2356	64	7.21N	96	45.69E	64	33N	96	20E	638985	24783	158	7	38	26	ND	2.669
79	7 19 35.935	2354	63	58.33N	96	53.81E	64	24N	96	29E	638585	24784	158	15	38	32	ND	2.669
80	7 19 38.303	2368	63	49.38N	97	1.89E	64	15N	96	37E	638187	24785	158	23	38	37	ND	2.653
81	7 19 40.650	2348	63	40.50N	97	9.80E	64	6N	96	45E	637794	24786	158	31	38	43	ND	2.676
82	7 19 43.005	2354	63	31.59N	97	17.65E	63	58N	96	53E	637403	24787	158	39	38	49	ND	2.669
83	7 19 45.355	2351	63	22.68N	97	25.40E	63	49N	97	1E	637014	24788	158	47	38	54	ND	2.673
84	7 19 47.709	2354	63	13.75N	97	33.08E	63	40N	97	9E	636629	24789	158	55	39	0	ND	2.669
85	7 19 50.063	2353	63	4.82N	97	40.67E	63	31N	97	17E	636246	24790	159	3	39	5	ND	2.674
86	7 19 52.412	2350	62	55.89N	97	48.16E	63	22N	97	25E	635866	24791	159	11	39	11	ND	2.689
87	7 19 54.749	2337	62	47.00N	97	55.53E	63	13N	97	32E	635490	24792	159	18	39	16	ND	2.674
88	7 19 57.100	2350	62	38.05N	98	2.87E	63	4N	97	40E	635116	24792	159	26	39	22	ND	2.675
89	7 19 59.448	2349	62	29.10N	98	10.12E	62	55N	97	48E	634744	24793	159	34	39	27	ND	2.675
90	7 20 1.784	2336	62	20.19N	98	17.26E	62	46N	97	55E	634307	24794	159	41	39	33	ND	2.690

TOP SECRET

HANDLE VIA
Talent-Keyhole

PASS 53D AFT 9AUG64

FRAME EPHEMERIS

MISSION 1009-2

ID 27

LIST DATE 07MAY65 PAGE 95

FRM	Z TIME	HR MI	SEC	DTIM	DEG MIN	DEG MIN	DEG MIN	DEG MIN	ALTITUDE FEET	VELOC F/S	AZIMUTH DEG MI	SUN/DEG MI	PITCH DEG MIN	ROLL DEG MIN	YAW DEG MIN	SCAN RATE
91	7 20	4.138		2353	62 11.21N	98 24.37E	62 37N 98 2E	634009	24795	159 48	39 38	ND	ND	ND	ND	2.670
92	7 20	6.479		2341	62 2.26N	98 31.37E	62 28N 98 9E	635647	24796	159 55	39 44	ND	ND	ND	ND	2.684
93	7 20	8.813		2334	61 53.34N	98 38.28E	62 19N 98 17E	633288	24797	160 3	39 49	ND	ND	ND	ND	2.692
94	7 20	11.168		2348	61 44.36N	98 45.15E	62 10N 98 24E	632930	24798	160 17	39 55	ND	ND	ND	ND	2.676
95	7 20	13.582		2342	61 35.39N	98 51.93E	62 1N 98 31E	632575	24798	160 17	40 0	ND	ND	ND	ND	2.683
96	7 20	15.838		2335	61 26.44N	98 58.63E	61 52N 98 38E	632224	24799	160 24	40 5	ND	ND	ND	ND	2.694
97	7 20	18.169		2332	61 17.50N	99 5.25E	61 44N 98 44E	631876	24800	160 30	40 11	ND	ND	ND	ND	2.694
98	7 20	20.585		2335	61 8.53N	99 11.81E	61 35N 98 51E	631530	24801	160 37	40 16	ND	ND	ND	ND	2.691
98	7 20	22.841		2336	60 59.56N	99 18.30E	61 26N 98 58E	631187	24802	160 44	40 21	ND	ND	ND	ND	2.690
100	7 20	25.181		2340	60 50.56N	99 24.74E	61 17N 99 5E	630846	24803	160 51	40 27	ND	ND	ND	ND	2.685
101	7 20	27.518		2337	60 41.57N	99 31.10E	61 8N 99 11E	630509	24803	160 57	40 32	ND	ND	ND	ND	2.689
102	7 20	29.853		2335	60 32.59N	99 37.40E	60 59N 99 18E	630174	24804	161 4	40 37	ND	ND	ND	ND	2.691
103	7 20	32.190		2338	60 23.58N	99 43.64E	60 50N 99 24E	629841	24805	161 10	40 42	ND	ND	ND	ND	2.693
104	7 20	34.523		2333	60 14.59N	99 49.80E	60 41N 99 30E	629512	24806	161 16	40 48	ND	ND	ND	ND	2.693
105	7 20	36.829		2306	60 5.69N	99 55.84E	60 32N 99 37E	629189	24807	161 23	40 53	ND	ND	ND	ND	2.725
106	7 20	39.159		2330	59 56.70N	100 1.87E	60 23N 99 43E	628866	24807	161 29	40 58	ND	ND	ND	ND	2.697
107	7 20	41.484		2325	59 47.72N	100 7.84E	60 14N 99 49E	628546	24808	161 35	41 3	ND	ND	ND	ND	2.702
108	7 20	43.817		2333	59 38.70N	100 13.77E	60 5N 99 55E	628228	24809	161 41	41 8	ND	ND	ND	ND	2.693
109	7 20	46.141		2323	59 29.72N	100 19.61E	59 56N 100 1E	627913	24810	161 47	41 13	ND	ND	ND	ND	2.705
110	7 20	48.473		2332	59 20.69N	100 25.42E	59 47N 100 7E	627601	24810	161 53	41 19	ND	ND	ND	ND	2.694
111	7 20	50.792		2320	59 11.71N	100 31.14E	59 38N 100 13E	627292	24811	161 59	41 24	ND	ND	ND	ND	2.708
112	7 20	53.113		2321	59 2.71N	100 36.81E	59 29N 100 19E	626987	24812	162 5	41 29	ND	ND	ND	ND	2.707
113	7 21	34.027		40914	56 23.36N	102 8.55E	56 49N 101 53E	622052	24824	163 40	42 55	ND	ND	ND	ND	0.154
114	7 21	37.239		3212	56 18.79N	102 15.15E	56 37N 102 0E	621701	24824	163 47	43 2	ND	ND	ND	ND	1.956
115	7 21	39.867		2628	56 0.50N	102 20.49E	56 27N 102 5E	621418	24825	163 52	43 7	ND	ND	ND	ND	2.391
116	7 21	42.314		2447	55 50.91N	102 25.42E	56 17N 102 10E	621158	24826	163 57	43 12	ND	ND	ND	ND	2.568
117	7 21	44.713		2398	55 41.51N	102 30.20E	56 8N 102 15E	620906	24826	164 2	43 17	ND	ND	ND	ND	2.628
118	7 21	47.069		2357	55 32.27N	102 34.86E	55 58N 102 20E	620662	24827	164 7	43 22	ND	ND	ND	ND	2.666
119	7 21	49.423		2353	55 23.03N	102 39.47E	55 49N 102 25E	620421	24827	164 12	43 26	ND	ND	ND	ND	2.670
120	7 21	51.752		2330	55 13.89N	102 43.99E	55 40N 102 30E	620185	24828	164 17	43 31	ND	ND	ND	ND	2.677
121	7 21	54.077		2325	55 4.76N	102 48.47E	55 31N 102 34E	619952	24829	164 21	43 35	ND	ND	ND	ND	2.702
122	7 21	56.407		2330	54 55.61N	102 52.92E	55 22N 102 39E	619723	24829	164 26	43 40	ND	ND	ND	ND	2.697
123	7 21	58.716		2308	54 46.53N	102 57.29E	55 13N 102 43E	619498	24830	164 30	43 45	ND	ND	ND	ND	2.722
124	7 22	1.834		2319	54 37.42N	103 1.64E	55 4N 102 48E	619274	24830	164 35	43 49	ND	ND	ND	ND	2.789
125	7 22	3.357		2323	54 28.28N	103 5.97E	54 45N 102 52E	619053	24831	164 39	43 54	ND	ND	ND	ND	2.705
126	7 22	5.693		2336	54 19.09N	103 10.28E	54 36N 103 1E	618835	24831	164 44	43 58	ND	ND	ND	ND	2.698
127	7 22	7.995		2302	54 10.03N	103 14.49E	54 36N 103 1E	618622	24832	164 48	44 3	ND	ND	ND	ND	2.729
128	7 22	10.303		2307	54 0.94N	103 18.68E	54 27N 103 5E	618411	24832	164 52	44 7	ND	ND	ND	ND	2.724
129	7 22	12.600		2297	53 51.89N	103 22.82E	54 18N 103 9E	618204	24833	164 57	44 12	ND	ND	ND	ND	2.735
130	7 22	14.910		2311	53 42.79N	103 26.94E	54 9N 103 14E	617999	24833	165 1	44 16	ND	ND	ND	ND	2.719
131	7 22	17.240		2330	53 33.60N	103 31.07E	54 0N 103 18E	617796	24834	165 5	44 20	ND	ND	ND	ND	2.697
132	7 22	19.533		2293	53 24.56N	103 35.10E	53 51N 103 22E	617598	24834	165 9	44 25	ND	ND	ND	ND	2.740
133	7 22	21.834		2381	53 15.48N	103 39.11E	53 42N 103 26E	617402	24835	165 13	44 29	ND	ND	ND	ND	2.731
134	7 22	24.140		2305	53 6.38N	103 43.09E	53 32N 103 30E	617209	24835	165 18	44 33	ND	ND	ND	ND	2.726
135	7 22	26.440		2301	52 57.30N	103 47.04E	53 23N 103 34E	617020	24836	165 22	44 38	ND	ND	ND	ND	2.731

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 530 AFT 9AUG64

FRAME EPHEMERIS 1889-2

ID 27 LIST DATE 07MAY65 PAGE 97

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
181	7 25 35.0880	2301	40 24.29N	107 50.24E	40 24.29N	107 50.24E	611748	24849	169 29	49 9	ND	ND	ND	2.731
182	7 25 37.3980	2309	40 14.09N	107 52.50E	40 14.09N	107 52.50E	611814	24849	169 31	49 11	ND	ND	ND	2.721
183	7 25 39.6940	2305	40 5.72N	107 54.73E	40 5.72N	107 54.73E	611883	24849	169 33	49 13	ND	ND	ND	2.726
184	7 25 42.0090	2314	39 56.40N	107 56.96E	39 56.40N	107 56.96E	611956	24849	169 35	49 16	ND	ND	ND	2.715
185	7 25 44.3130	2304	39 47.13N	107 59.17E	39 47.13N	107 59.17E	612032	24849	169 37	49 18	ND	ND	ND	2.727
186	7 25 46.6170	2305	39 37.85N	108 1.36E	39 37.85N	108 1.36E	612112	24848	169 42	49 22	ND	ND	ND	2.726
187	7 25 48.9230	2305	39 28.57N	108 3.55E	39 28.57N	108 3.55E	612279	24848	169 44	49 24	ND	ND	ND	2.731
188	7 25 51.2240	2301	39 19.30N	108 5.72E	39 19.30N	108 5.72E	612279	24848	169 44	49 24	ND	ND	ND	2.721
189	7 25 53.5320	2309	39 10.00N	108 7.88E	39 10.00N	108 7.88E	612368	24848	169 46	49 26	ND	ND	ND	2.729
190	7 25 55.8340	2302	39 0.73N	108 10.02E	39 0.73N	108 10.02E	612461	24848	169 48	49 28	ND	ND	ND	2.726
191	7 25 58.1400	2305	38 51.44N	108 12.16E	38 51.44N	108 12.16E	612556	24848	169 50	49 30	ND	ND	ND	2.731
192	7 26 0.4480	2301	38 42.17N	108 14.28E	38 42.17N	108 14.28E	612654	24847	169 52	49 32	ND	ND	ND	2.721
193	7 26 2.7490	2309	38 32.87N	108 16.40E	38 32.87N	108 16.40E	612756	24847	169 54	49 34	ND	ND	ND	2.721
194	7 26 5.0670	2318	38 23.52N	108 18.51E	38 23.52N	108 18.51E	612862	24847	169 56	49 36	ND	ND	ND	2.711
195	7 26 7.3720	2305	38 14.23N	108 20.60E	38 14.23N	108 20.60E	612971	24847	169 58	49 38	ND	ND	ND	2.726
196	7 26 9.6750	2302	38 4.95N	108 22.67E	38 4.95N	108 22.67E	613083	24846	170 0	49 39	ND	ND	ND	2.729
197	7 26 11.9790	2305	37 55.66N	108 24.74E	37 55.66N	108 24.74E	613198	24846	170 2	49 41	ND	ND	ND	2.726
198	7 26 14.2840	2305	37 46.37N	108 26.80E	37 46.37N	108 26.80E	613316	24846	170 4	49 43	ND	ND	ND	2.711
199	7 26 16.6030	2318	37 37.02N	108 28.85E	37 37.02N	108 28.85E	613439	24846	170 6	49 45	ND	ND	ND	2.729
200	7 26 18.9040	2302	37 27.73N	108 30.88E	37 27.73N	108 30.88E	613564	24845	170 8	49 46	ND	ND	ND	2.720
201	7 26 21.2150	2310	37 18.41N	108 32.91E	37 18.41N	108 32.91E	613692	24845	170 12	49 48	ND	ND	ND	2.720
202	7 26 23.5270	2313	37 9.09N	108 34.93E	37 9.09N	108 34.93E	613824	24845	170 18	49 50	ND	ND	ND	2.716
203	7 26 25.8380	2310	36 59.76N	108 36.94E	36 59.76N	108 36.94E	613960	24845	170 14	49 51	ND	ND	ND	2.720
204	7 26 28.1480	2302	36 50.48N	108 38.93E	36 50.48N	108 38.93E	614098	24844	170 16	49 53	ND	ND	ND	2.729
205	7 26 30.4570	2318	36 41.13N	108 40.92E	36 41.13N	108 40.92E	614248	24844	170 18	49 54	ND	ND	ND	2.711
206	7 26 32.7600	2302	36 31.83N	108 42.89E	36 31.83N	108 42.89E	614385	24844	170 19	49 56	ND	ND	ND	2.729
207	7 26 35.0682	2323	36 22.46N	108 44.86E	36 22.46N	108 44.86E	614534	24843	170 21	49 57	ND	ND	ND	2.705
208	7 26 37.3785	2302	36 13.16N	108 46.81E	36 13.16N	108 46.81E	614686	24843	170 23	49 59	ND	ND	ND	2.729
209	7 26 39.7070	2323	36 3.79N	108 48.76E	36 3.79N	108 48.76E	614842	24843	170 25	50 0	ND	ND	ND	2.705
210	7 26 42.0415	2307	35 54.47N	108 50.70E	35 54.47N	108 50.70E	615001	24842	170 27	50 2	ND	ND	ND	2.724
211	7 26 44.3290	2315	35 45.13N	108 52.62E	35 45.13N	108 52.62E	615163	24842	170 29	50 3	ND	ND	ND	2.714
212	7 26 46.6520	2323	35 35.74N	108 54.55E	35 35.74N	108 54.55E	615329	24841	170 30	50 4	ND	ND	ND	2.705
213	7 26 48.9680	2315	35 26.39N	108 56.46E	35 26.39N	108 56.46E	615498	24841	170 32	50 6	ND	ND	ND	2.714
214	7 26 51.2870	2320	35 17.03N	108 58.36E	35 17.03N	108 58.36E	615671	24841	170 34	50 7	ND	ND	ND	2.708
215	7 26 53.6070	2320	35 7.65N	108 0.26E	35 7.65N	108 0.26E	615847	24840	170 36	50 8	ND	ND	ND	2.724
216	7 26 55.9140	2307	34 58.33N	109 2.13E	34 58.33N	109 2.13E	616026	24840	170 38	50 10	ND	ND	ND	2.708
217	7 26 58.2340	2320	34 48.96N	109 4.01E	34 48.96N	109 4.01E	616208	24840	170 39	50 11	ND	ND	ND	2.708
218	7 27 0.5550	2320	34 39.58N	109 5.87E	34 39.58N	109 5.87E	616395	24839	170 41	50 12	ND	ND	ND	2.708
219	7 27 2.8740	2328	34 30.21N	109 7.73E	34 30.21N	109 7.73E	616588	24839	170 43	50 13	ND	ND	ND	2.708
220	7 27 5.2070	2333	34 20.78N	109 9.59E	34 20.78N	109 9.59E	616779	24838	170 44	50 14	ND	ND	ND	2.693
221	7 27 7.5270	2328	34 11.41N	109 11.43E	34 11.41N	109 11.43E	616975	24838	170 46	50 15	ND	ND	ND	2.708
222	7 27 9.8530	2325	34 2.04N	109 13.26E	34 2.04N	109 13.26E	617175	24837	170 48	50 16	ND	ND	ND	2.702
223	7 27 12.1690	2317	33 52.64N	109 15.08E	33 52.64N	109 15.08E	617378	24837	170 49	50 17	ND	ND	ND	2.712
224	7 27 14.4940	2325	33 43.24N	109 16.89E	33 43.24N	109 16.89E	617585	24836	170 51	50 18	ND	ND	ND	2.702
225	7 27 16.8270	2333	33 33.81N	109 18.71E	33 33.81N	109 18.71E	617797	24836	170 53	50 19	ND	ND	ND	2.693

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 530 AFT 9AUG64

FRAME EPHMERIS MISSION 1889-2

ID 27

LIST DATE 07MAY65

PAGE 98

FRM	HR	MI	SEC	DTM	MILS	DEG	LAT	DEG	LONG	DEG	LAT	DEG	LONG	ALTITUDE	VELOC	DEG	MI	DEG	SUNV	PITCH	ROLL	YAW	SCAN
						MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	FEET	F/S	MIN	MI	MIN	MI	MIN	MIN	MIN	RATE
226	7	27	19.149	2322	33	24.42N	109	20.50E	33	51N	109	14E	618010	24835	170	54	50	20	ND	ND	ND	2.786	
227	7	27	21.470	2328	33	15.04N	109	22.29E	33	42N	109	16E	618227	24835	170	56	50	21	ND	ND	ND	2.788	
228	7	27	23.803	2333	33	5.68N	109	24.08E	33	32N	109	17E	618449	24834	170	58	50	22	ND	ND	ND	2.693	
229	7	27	26.124	2322	32	56.22N	109	25.85E	33	23N	109	19E	618672	24834	170	59	50	22	ND	ND	ND	2.786	
230	7	27	28.463	2322	32	46.76N	109	27.62E	33	13N	109	21E	618982	24833	171	1	50	23	ND	ND	ND	2.687	
231	7	27	30.779	2317	32	37.39N	109	29.37E	33	4N	109	23E	619132	24833	171	2	50	24	ND	ND	ND	2.712	
232	7	27	33.117	2338	32	27.93N	109	31.13E	32	55N	109	24E	619368	24832	171	4	50	25	ND	ND	ND	2.687	
233	7	27	35.447	2338	32	18.50N	109	32.87E	32	45N	109	26E	619606	24832	171	6	50	25	ND	ND	ND	2.697	
234	7	27	37.770	2322	32	9.11N	109	34.60E	32	36N	109	28E	619848	24831	171	7	50	26	ND	ND	ND	2.786	
235	7	27	40.104	2335	31	59.66N	109	36.33E	32	26N	109	30E	620093	24831	171	9	50	26	ND	ND	ND	2.691	
236	7	27	42.439	2335	31	58.21N	109	38.06E	32	17N	109	32E	620342	24830	171	10	50	27	ND	ND	ND	2.691	
237	7	27	44.782	2343	31	48.73N	109	39.78E	32	8N	109	33E	620596	24830	171	12	50	28	ND	ND	ND	2.682	
238	7	27	47.117	2335	31	31.28N	109	41.49E	31	58N	109	35E	620852	24829	171	13	50	28	ND	ND	ND	2.691	
239	7	27	49.452	2335	31	21.83N	109	43.19E	31	49N	109	37E	621111	24828	171	15	50	29	ND	ND	ND	2.691	
240	7	27	51.784	2332	31	12.39N	109	44.88E	31	39N	109	38E	621375	24828	171	16	50	29	ND	ND	ND	2.694	
241	7	27	54.124	2348	31	2.92N	109	46.56E	31	30N	109	40E	621641	24827	171	18	50	29	ND	ND	ND	2.685	
242	7	27	56.474	2349	30	53.41N	109	48.25E	31	20N	109	42E	621914	24827	171	19	50	30	ND	ND	ND	2.675	
243	7	27	58.814	2341	30	43.93N	109	49.93E	31	11N	109	44E	622187	24826	171	21	50	30	ND	ND	ND	2.684	
244	7	28	1.162	2348	30	34.43N	109	51.60E	31	1N	109	45E	622466	24825	171	22	50	30	ND	ND	ND	2.676	
245	7	28	3.513	2350	30	24.91N	109	53.26E	30	52N	109	47E	622749	24825	171	24	50	31	ND	ND	ND	2.674	
246	7	28	5.850	2337	30	15.45N	109	54.91E	30	42N	109	49E	623033	24824	171	25	50	31	ND	ND	ND	2.689	
247	7	28	8.216	2366	30	5.86N	109	56.57E	30	33N	109	50E	623324	24823	171	26	50	31	ND	ND	ND	2.656	
248	7	28	10.553	2337	29	56.48N	109	58.21E	30	23N	109	52E	623616	24823	171	28	50	32	ND	ND	ND	2.689	
249	7	28	12.895	2342	29	46.92N	109	59.84E	30	14N	109	54E	623912	24822	171	29	50	32	ND	ND	ND	2.659	
250	7	28	15.258	2363	29	37.35N	110	3.09E	29	55N	109	55E	624213	24821	171	31	50	32	ND	ND	ND	2.689	
251	7	28	17.595	2337	29	27.88N	110	4.72E	29	45N	109	58E	624514	24821	171	32	50	32	ND	ND	ND	2.650	
252	7	28	19.966	2371	29	18.28N	110	6.32E	29	36N	110	0E	624824	24820	171	33	50	32	ND	ND	ND	2.691	
253	7	28	22.301	2335	29	8.82N	110	7.94E	29	26N	110	2E	625133	24819	171	35	50	32	ND	ND	ND	2.691	
254	7	28	24.671	2370	28	59.22N	110		29				625449	24819	171	36	50	32	ND	ND	ND	2.651	

Approved For

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

PASS	540	AFT	9AUG64	FRM	2 TIME	DTIM	CAMERA	DEG	LONG	DEG	LONG	MISSION	1009-2	ID	27	LIST DATE	07MAY65	PAGE	99	SCAN RATE							
HR	MI	SEC	MILS	LAT	MIN	DEG	MIN	DEG	MIN	DEG	MIN	FEET	F/S	DEG	MI	DEG	MI	PITCH	DEG	MIN	ROLL	DEG	MIN	YAW	DEG	MIN	
1	8	46	44.718	0	76	8.22N	50	45.59E	76	29N	49	15E	683392	24679	134	31	29	16	ND	ND	ND	ND	ND	ND	ND	ND	1.824
2	8	46	48.162	0	75	58.48N	51	26.54E	76	28N	49	58E	682510	24682	135	12	29	26	ND	ND	ND	ND	ND	ND	ND	ND	1.824
3	8	46	50.992	2830	75	58.24N	51	59.48E	76	12N	50	33E	681789	24683	135	45	29	34	ND	ND	ND	ND	ND	ND	ND	ND	2.220
4	8	46	53.657	2665	75	42.49N	52	29.92E	76	4N	51	5E	681112	24685	136	16	29	41	ND	ND	ND	ND	ND	ND	ND	ND	2.358
5	8	46	56.252	2595	75	34.87N	52	59.04E	75	57N	51	36E	680456	24686	136	46	29	49	ND	ND	ND	ND	ND	ND	ND	ND	2.421
6	8	46	58.810	2557	75	27.31N	53	27.24E	75	49N	52	6E	679812	24688	137	14	29	56	ND	ND	ND	ND	ND	ND	ND	ND	2.457
7	8	47	1.354	2545	75	19.72N	53	54.82E	75	52	35E	679174	24689	137	42	30	3	ND	ND	ND	ND	ND	ND	ND	ND	2.469	
8	8	47	3.897	2543	75	12.09N	54	21.91E	75	34N	53	3E	678538	24691	138	9	30	10	ND	ND	ND	ND	ND	ND	ND	2.471	
9	8	47	6.428	2530	75	4.43N	54	48.40E	75	27N	53	31E	677908	24692	138	36	30	17	ND	ND	ND	ND	ND	ND	ND	2.483	
10	8	47	8.939	2512	74	56.78N	55	14.26E	75	19N	53	58E	677285	24694	139	2	30	24	ND	ND	ND	ND	ND	ND	ND	2.501	
11	8	47	11.449	2510	74	49.89N	55	39.66E	75	12N	54	25E	676665	24695	139	28	30	31	ND	ND	ND	ND	ND	ND	ND	ND	2.503
12	8	47	13.976	2526	74	41.30N	56	4.80E	75	4N	54	51E	676043	24697	139	54	30	38	ND	ND	ND	ND	ND	ND	ND	ND	2.487
13	8	47	16.473	2497	74	33.54N	56	29.23E	74	56N	55	17E	675431	24698	140	18	30	45	ND	ND	ND	ND	ND	ND	ND	ND	2.516
14	8	47	18.973	2500	74	25.74N	56	53.29E	74	49N	55	42E	674821	24699	140	43	30	52	ND	ND	ND	ND	ND	ND	ND	ND	2.513
15	8	47	21.465	2492	74	17.91N	57	16.87E	74	41N	56	7E	674215	24701	141	7	30	59	ND	ND	ND	ND	ND	ND	ND	ND	2.521
16	8	47	23.959	2495	74	10.03N	57	40.00E	74	33N	56	31E	673611	24702	141	30	31	6	ND	ND	ND	ND	ND	ND	ND	ND	2.518
17	8	47	26.457	2498	74	2.09N	58	2.95E	74	25N	56	55E	673008	24704	141	53	31	12	ND	ND	ND	ND	ND	ND	ND	ND	2.515
18	8	47	28.939	2482	73	54.16N	58	25.30E	74	17N	57	19E	672412	24705	142	16	31	19	ND	ND	ND	ND	ND	ND	ND	ND	2.532
19	8	47	31.419	2480	73	46.21N	58	47.26E	74	10N	57	42E	671818	24706	142	38	31	26	ND	ND	ND	ND	ND	ND	ND	ND	2.534
20	8	47	33.900	2481	73	38.20N	59	8.09E	74	2N	58	5E	671227	24708	143	0	31	33	ND	ND	ND	ND	ND	ND	ND	ND	2.533
21	8	47	36.361	2480	73	30.16N	59	30.15E	73	54N	58	27E	670639	24709	143	43	31	40	ND	ND	ND	ND	ND	ND	ND	ND	2.534
22	8	47	38.859	2479	73	22.09N	59	51.06E	73	46N	58	49E	670052	24710	143	43	31	46	ND	ND	ND	ND	ND	ND	ND	ND	2.535
23	8	47	41.338	2478	73	13.98N	60	11.63E	73	38N	59	11E	669470	24712	144	4	31	53	ND	ND	ND	ND	ND	ND	ND	ND	2.536
24	8	47	43.805	2467	73	5.87N	60	31.78E	73	30N	59	32E	668891	24713	144	25	32	0	ND	ND	ND	ND	ND	ND	ND	ND	2.547
25	8	47	46.270	2465	72	57.74N	60	51.59E	73	22N	59	53E	668316	24715	144	45	32	7	ND	ND	ND	ND	ND	ND	ND	ND	2.549
26	8	47	48.729	2460	72	49.59N	61	11.05E	73	14N	60	13E	667745	24716	145	4	32	13	ND	ND	ND	ND	ND	ND	ND	ND	2.554
27	8	47	51.198	2469	72	41.37N	61	30.28E	73	5N	60	33E	667173	24717	145	24	32	20	ND	ND	ND	ND	ND	ND	ND	ND	2.545
28	8	47	53.662	2464	72	33.14N	61	49.16E	72	57N	60	60E	666606	24719	145	43	32	27	ND	ND	ND	ND	ND	ND	ND	ND	2.550
29	8	47	56.110	2448	72	24.93N	62	7.64E	72	49N	61	12E	666044	24720	146	2	32	33	ND	ND	ND	ND	ND	ND	ND	ND	2.567
30	8	47	58.572	2462	72	16.64N	62	25.93E	72	41N	61	31E	665582	24721	146	21	32	35	ND	ND	ND	ND	ND	ND	ND	ND	2.552
31	8	48	1.022	2458	72	8.36N	62	43.85E	72	33N	61	50E	664924	24722	146	39	32	47	ND	ND	ND	ND	ND	ND	ND	ND	2.565
32	8	48	3.470	2447	72	0.87N	63	1.48E	72	24N	62	9E	664371	24724	146	57	32	53	ND	ND	ND	ND	ND	ND	ND	ND	2.568
33	8	48	5.914	2445	71	51.75N	63	18.82E	72	16N	62	27E	663820	24725	147	14	33	0	ND	ND	ND	ND	ND	ND	ND	ND	2.570
34	8	48	8.359	2445	71	43.48N	63	35.90E	72	8N	62	45E	663271	24726	147	32	33	6	ND	ND	ND	ND	ND	ND	ND	ND	2.570
35	8	48	10.813	2453	71	35.00N	63	52.78E	72	0N	63	2E	662723	24728	147	49	33	13	ND	ND	ND	ND	ND	ND	ND	ND	2.561
36	8	48	13.256	2445	71	26.60N	64	9.35E	71	51N	63	20E	662179	24729	148	6	33	19	ND	ND	ND	ND	ND	ND	ND	ND	2.570
37	8	48	15.692	2435	71	18.21N	64	25.69E	71	43N	63	37E	661640	24730	148	22	33	26	ND	ND	ND	ND	ND	ND	ND	ND	2.580
38	8	48	18.138	2445	71	9.76N	64	41.69E	71	34N	63	54E	661102	24731	148	39	33	32	ND	ND	ND	ND	ND	ND	ND	ND	2.570
39	8	48	20.572	2435	71	1.32N	64	57.46E	71	26N	64	10E	660568	24733	148	55	33	39	ND	ND	ND	ND	ND	ND	ND	ND	2.580
40	8	48	23.002	2430	70	52.87N	65	12.97E	71	18N	64	26E	660038	24734	149	11	33	45	ND	ND	ND	ND	ND	ND	ND	ND	2.586
41	8	48	25.435	2430	70	44.48N	65	28.26E	71	9N	64	42E	659589	24735	149	26	33	52	ND	ND	ND	ND	ND	ND	ND	ND	2.586
42	8	48	27.854	2422	70	35.93N	65	43.28E	71	1N	64	58E	658985	24736	149	42	33	58	ND	ND	ND	ND	ND	ND	ND	ND	2.594
43	8	48	30.279	2425	70	27.43N	65	50.10E	70	52N	65	13E	658463	24738	149	57	34	5	ND	ND	ND	ND	ND	ND	ND	ND	2.591
44	8	48	32.714	2034	70	19.86N	66	12.76E	70	44N	65	29E	657942	24739	150	12	34	11	ND	ND	ND	ND	ND	ND	ND	ND	2.581
45	8	48	35.150	2416	70	10.56N	66	27.10E	70	35N	65	44E	657427	24740	150	26	34	18	ND	ND	ND	ND	ND	ND	ND	ND	2.601

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 540 AFT 9AUG64

FRAME EPHMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65

PAGE 100

FRM	HR	MI	SEC	DTIM MILS	CAMERA			NADR			FORMAT CENTER			ALTITUDE			VELOC			AZIMUTH			SUN/			PITCH	ROLL	YAW	SCAN RATE
					DEG	MIN	LAT	DEG	MIN	LONG	DEG	MIN	LONG	FEET	F/S	DEG	MIN	DEG	MI	DEG	MI	DEG	MIN	DEG	MIN				
46	8	48	37.545	2416	70	1.83N	66	41.24E	70	59E	65614	24741	158	41	34	24	ND	ND	ND	2.601									
47	8	48	39.959	2414	69	53.29N	66	55.17E	70	18N	65648	24742	150	55	34	30	ND	ND	ND	2.603									
48	8	48	42.388	2420	69	44.70N	67	8.94E	70	18N	65589	24744	151	9	34	37	ND	ND	ND	2.596									
49	8	48	44.794	2415	69	36.11N	67	22.48E	70	1N	65539	24745	151	23	34	43	ND	ND	ND	2.602									
50	8	48	47.209	2415	69	27.50N	67	35.84E	69	53N	65489	24746	151	36	34	49	ND	ND	ND	2.599									
51	8	48	49.627	2418	69	18.86N	67	49.03E	69	44N	65438	24747	151	50	34	56	ND	ND	ND	2.616									
52	8	48	52.029	2402	69	18.26N	68	1.95E	69	36N	65389	24748	152	3	35	2	ND	ND	ND	2.607									
53	8	48	54.439	2410	69	1.61N	68	14.74E	69	27N	65340	24749	152	16	35	14	ND	ND	ND	2.599									
54	8	48	56.857	2418	68	52.92N	68	27.40E	69	18N	65297	24751	152	29	35	21	ND	ND	ND	2.613									
55	8	48	59.263	2405	68	44.25N	68	39.82E	69	18N	65249	24752	152	42	35	27	ND	ND	ND	2.621									
56	8	49	1.659	2397	68	35.60N	68	52.03E	69	1N	65196	24753	152	54	35	27	ND	ND	ND	2.615									
57	8	49	4.063	2403	68	26.91N	69	4.10E	68	52N	65145	24754	153	7	35	33	ND	ND	ND	2.618									
58	8	49	6.455	2393	68	18.24N	69	15.97E	68	44N	65097	24755	153	19	35	39	ND	ND	ND	2.610									
59	8	49	8.862	2407	68	9.51N	69	27.75E	68	35N	65049	24756	153	31	35	45	ND	ND	ND	2.622									
60	8	49	11.259	2396	68	0.79N	69	39.32E	68	26N	65002	24757	153	43	35	51	ND	ND	ND	2.619									
61	8	49	13.657	2399	67	52.05N	69	50.75E	68	18N	64955	24758	153	54	35	58	ND	ND	ND	2.632									
62	8	49	16.044	2387	67	43.35N	70	1.98E	68	9N	64908	24759	154	6	36	4	ND	ND	ND	2.623									
63	8	49	18.439	2395	67	34.59N	70	13.10E	68	8N	64862	24761	154	17	36	10	ND	ND	ND	2.615									
64	8	49	20.843	2403	67	25.79N	70	24.12E	67	51N	64815	24762	154	29	36	16	ND	ND	ND	2.638									
65	8	49	23.225	2382	67	17.06N	70	34.89E	67	43N	64769	24763	154	40	36	22	ND	ND	ND	2.629									
66	8	49	25.614	2390	67	8.28N	70	45.57E	67	34N	64724	24764	154	51	36	28	ND	ND	ND	2.626									
67	8	49	28.008	2393	66	59.47N	70	56.13E	67	25N	64678	24765	155	1	36	34	ND	ND	ND	2.633									
68	8	49	30.394	2386	66	50.68N	71	6.52E	67	16N	64633	24766	155	12	36	40	ND	ND	ND	2.636									
69	8	49	32.777	2384	66	41.89N	71	16.77E	67	8N	64588	24767	155	23	36	46	ND	ND	ND	2.649									
70	8	49	35.149	2372	66	33.12N	71	26.84E	66	59N	64540	24768	155	33	36	52	ND	ND	ND	2.640									
71	8	49	37.529	2380	66	24.32N	71	36.82E	66	50N	64500	24769	155	43	36	58	ND	ND	ND	2.631									
72	8	49	39.917	2388	66	15.47N	71	46.71E	66	41N	64456	24770	155	53	37	4	ND	ND	ND	2.640									
73	8	49	42.298	2380	66	6.64N	71	56.46E	66	32N	64412	24771	156	3	37	10	ND	ND	ND	2.651									
74	8	49	44.667	2370	65	57.83N	72	6.03E	66	24N	64369	24772	156	13	37	16	ND	ND	ND	2.654									
75	8	49	47.034	2367	65	49.03N	72	15.49E	66	15N	64326	24773	156	23	37	22	ND	ND	ND	2.636									
76	8	49	49.418	2384	65	40.15N	72	24.89E	66	6N	64283	24774	156	33	37	27	ND	ND	ND	2.656									
77	8	49	51.784	2366	65	31.32N	72	34.11E	65	57N	64198	24775	156	42	37	33	ND	ND	ND	2.651									
78	8	49	54.154	2370	65	22.47N	72	43.24E	65	48N	64156	24777	156	51	37	39	ND	ND	ND	2.651									
79	8	49	56.524	2370	65	13.61N	72	52.26E	65	39N	64114	24778	157	1	37	45	ND	ND	ND	2.651									
80	8	49	58.895	2370	65	4.74N	73	1.18E	65	31N	64114	24778	157	10	37	51	ND	ND	ND	2.642									
81	8	50	1.272	2370	64	55.82N	73	10.02E	65	22N	64073	24779	157	19	37	57	ND	ND	ND	2.670									
82	8	50	3.625	2353	64	47.08N	73	18.66E	65	13N	64032	24780	157	28	38	2	ND	ND	ND	2.652									
83	8	50	5.994	2369	64	38.18N	73	27.20E	65	4N	63991	24781	157	37	38	8	ND	ND	ND	2.657									
84	8	50	8.359	2365	64	29.28N	73	35.75E	64	55N	63951	24782	157	45	38	14	ND	ND	ND	2.648									
85	8	50	10.732	2373	64	20.27N	73	44.17E	64	46N	63910	24783	157	54	38	20	ND	ND	ND	2.671									
86	8	50	13.084	2352	64	11.40N	73	52.41E	64	37N	63870	24784	158	3	38	25	ND	ND	ND	2.653									
87	8	50	15.452	2368	64	2.47N	74	0.63E	64	28N	63830	24785	158	11	38	31	ND	ND	ND	2.677									
88	8	50	17.800	2347	63	53.68N	74	8.67E	64	20N	63791	24786	158	19	38	37	ND	ND	ND	2.668									
89	8	50	20.154	2355	63	44.70N	74	16.65E	64	11N	63752	24787	158	28	38	42	ND	ND	ND	2.653									
90	8	50	22.522	2368	63	35.74N	74	24.59E	64	2N	63713	24788	158	36	38	48	ND	ND	ND										

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 540 AFT. 9AUG64

FRAME EPHEMERIS MISSION 1009-2

ID 27 LIST DATE 07MAY65 PAGE 101

FRM	2 TIME		DTIM	CAMERA		NADIR		FORMAT		CENTER		ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
	HR	MI		SEC	LAT	MIN	DEG	LONG	MIN	DEG	LONG								
91	8	50	24.872	63	26.84N	74	32.38E	63	53N	74	8E	636751	24789	158	44	38	54	ND	2.674
92	8	50	27.228	63	17.91N	74	40.19E	63	44N	74	16E	636368	24789	158	52	38	59	ND	2.668
93	8	50	29.577	63	8.99N	74	47.72E	63	35N	74	24E	635988	24790	159	0	39	5	ND	2.674
94	8	50	31.928	63	0.86N	74	55.25E	63	32N	74	32E	635621	24791	159	7	39	11	ND	2.674
95	8	50	34.270	62	51.16N	75	2.68E	63	17N	74	40E	635239	24792	159	15	39	16	ND	2.683
96	8	50	36.619	62	42.21N	75	10.88E	63	8N	74	47E	634867	24793	159	23	39	22	ND	2.674
97	8	50	38.970	62	33.26N	75	17.35E	62	59N	74	55E	634497	24794	159	30	39	27	ND	2.674
98	8	50	41.323	62	24.29N	75	24.57E	62	50N	75	2E	634131	24795	159	38	39	33	ND	2.669
99	8	50	43.659	62	15.38N	75	31.67E	62	41N	75	9E	633769	24796	159	45	39	38	ND	2.690
100	8	50	46.013	62	6.39N	75	38.74E	62	32N	75	17E	633408	24796	159	52	39	44	ND	2.670
101	8	50	48.358	61	57.46N	75	45.69E	62	23N	75	24E	633052	24797	159	59	39	49	ND	2.689
102	8	50	50.702	61	48.46N	75	52.61E	62	14N	75	31E	632696	24798	160	6	39	55	ND	2.670
103	8	50	53.048	61	39.48N	75	59.44E	62	6N	75	38E	632344	24799	160	13	40	0	ND	2.679
104	8	50	55.385	61	30.52N	76	6.17E	61	57N	75	45E	631995	24800	160	20	40	5	ND	2.689
105	8	50	57.720	61	21.57N	76	12.83E	61	48N	75	52E	631650	24801	160	27	40	11	ND	2.691
106	8	51	0.060	61	12.59N	76	19.43E	61	39N	75	59E	631307	24801	160	34	40	16	ND	2.685
107	8	51	2.407	60	54.60N	76	25.99E	61	30N	76	6E	630965	24802	160	41	40	21	ND	2.676
108	8	51	4.743	60	45.65N	76	32.44E	61	21N	76	12E	630628	24803	160	48	40	27	ND	2.690
109	8	51	7.070	60	36.67N	76	38.81E	61	12N	76	19E	630295	24804	160	54	40	32	ND	2.700
110	8	51	9.405	60	27.63N	76	45.14E	61	3N	76	25E	629962	24805	161	1	40	37	ND	2.691
111	8	51	11.752	60	18.68N	76	51.43E	60	54N	76	32E	629632	24805	161	7	40	43	ND	2.677
112	8	51	14.074	60	9.66N	77	3.74E	60	45N	76	38E	629308	24806	161	14	40	48	ND	2.706
113	8	51	16.412	60	0.65N	77	9.81E	60	36N	76	44E	628984	24807	161	20	40	53	ND	2.687
114	8	51	18.747	59	51.69N	77	15.80E	60	18N	76	57E	628346	24808	161	32	41	4	ND	2.691
115	8	51	21.069	59	42.68N	77	21.74E	60	9N	77	3E	628032	24809	161	38	41	9	ND	2.706
116	8	51	23.399	59	33.64N	77	27.65E	60	0N	77	9E	627719	24810	161	45	41	14	ND	2.697
117	8	51	25.737	59	24.66N	77	33.46E	59	51N	77	15E	627410	24811	161	51	41	19	ND	2.687
118	8	51	28.068	59	15.67N	77	39.21E	59	42N	77	21E	627105	24811	161	57	41	24	ND	2.706
119	8	51	30.381	59	6.62N	77	44.95E	59	33N	77	27E	626801	24812	162	2	41	29	ND	2.707
120	8	51	32.718	58	57.64N	77	50.58E	59	24N	77	33E	626501	24813	162	8	41	34	ND	2.689
121	8	51	35.034	58	48.59N	77	56.19E	59	15N	77	38E	626202	24814	162	14	41	40	ND	2.712
122	8	51	37.367	58	39.57N	78	1.74E	59	6N	77	44E	625908	24814	162	20	41	45	ND	2.693
123	8	51	39.692	58	30.57N	78	7.21E	58	57N	77	50E	625616	24815	162	26	41	50	ND	2.702
124	8	51	42.018	58	21.54N	78	12.65E	58	48N	77	55E	625321	24816	162	31	41	55	ND	2.712
125	8	51	44.334	58	12.52N	78	18.03E	58	39N	78	6E	625041	24817	162	37	42	0	ND	2.708
126	8	51	46.654	58	3.45N	78	23.38E	58	30N	78	12E	624756	24817	162	42	42	5	ND	2.693
127	8	51	48.987	57	54.41N	78	28.66E	58	20N	78	17E	624476	24818	162	48	42	10	ND	2.707
128	8	51	51.309	57	45.40N	78	33.88E	58	11N	78	23E	624199	24818	162	53	42	15	ND	2.713
129	8	51	53.624	57	36.36N	78	39.06E	58	2N	78	28E	623924	24819	162	58	42	20	ND	2.708
130	8	51	55.944	57	27.31N	78	44.20E	57	53N	78	33E	623652	24820	163	4	42	24	ND	2.708
131	8	51	58.265	57	18.27N	78	49.29E	57	44N	78	38E	623382	24820	163	9	42	29	ND	2.708
132	8	52	0.584	57	9.20N	78	54.33E	57	35N	78	43E	623116	24821	163	14	42	34	ND	2.708
133	8	52	2.907	57	0.19N	78	59.30E	57	26N	78	48E	622854	24821	163	19	42	39	ND	2.705
134	8	52	5.215	56	51.10N	79	4.27E	57	17N	78	48E	622591	24822	163	25	42	44	ND	2.724
135	8	52	7.543	2329															2.698

TOP SECRET

HANDLE VIA

CONTROL ONLY

SPECIAL HANDLING REQUIRED

CONTROL ONLY

PASS 54D AFT 9AUG64

FRAME EPHEMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65

PAGE 102

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	DEG MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
136	8 52 9.654	2311	56 42.07N	79 9.16E	57	8N	622334	24823	163 38	42 49	ND	ND	ND	2.719
137	8 52 12.169	2315	56 33.02N	79 14.04E	56	59N	622080	24823	163 35	42 53	ND	ND	ND	2.714
138	8 52 14.492	2323	56 23.93N	79 18.80E	56	58N	621827	24824	163 40	42 58	ND	ND	ND	2.705
139	8 52 16.008	2315	56 14.07N	79 23.61E	56	41N	621578	24825	163 45	43 3	ND	ND	ND	2.714
140	8 52 19.114	2307	56 5.84N	79 28.32E	56	32N	621333	24825	163 49	43 8	ND	ND	ND	2.724
141	8 52 21.438	2323	55 56.74N	79 33.02E	56	23N	621088	24826	163 54	43 12	ND	ND	ND	2.705
142	8 52 23.752	2315	55 47.67N	79 37.66E	56	14N	620848	24826	163 59	43 17	ND	ND	ND	2.714
143	8 52 26.066	2307	55 38.62N	79 42.25E	56	5N	620611	24827	164 4	43 22	ND	ND	ND	2.724
144	8 52 28.378	2319	55 29.53N	79 46.82E	55	56N	620376	24827	164 9	43 27	ND	ND	ND	2.709
145	8 52 30.685	2306	55 20.45N	79 51.33E	55	47N	620145	24828	164 13	43 31	ND	ND	ND	2.725
146	8 52 33.019	2334	55 11.32N	79 55.85E	55	37N	619913	24829	164 18	43 36	ND	ND	ND	2.692
147	8 52 35.325	2307	55 2.26N	80 0.28E	55	28N	619688	24829	164 18	43 40	ND	ND	ND	2.724
148	8 52 37.627	2302	54 53.21N	80 4.66E	55	19N	619466	24830	164 22	43 45	ND	ND	ND	2.729
149	8 52 39.930	2302	54 44.16N	80 9.01E	55	10N	619246	24830	164 31	43 50	ND	ND	ND	2.729
150	8 52 42.234	2305	54 35.10N	80 13.33E	55	1N	619030	24831	164 36	43 54	ND	ND	ND	2.726
151	8 52 44.568	2334	54 25.92N	80 17.67E	54	52N	618813	24831	164 40	44 3	ND	ND	ND	2.692
152	8 52 46.878	2310	54 16.83N	80 21.92E	54	43N	618602	24832	164 45	44 5	ND	ND	ND	2.720
153	8 52 49.181	2302	54 7.66N	80 26.13E	54	34N	618393	24832	164 49	44 8	ND	ND	ND	2.729
154	8 52 51.485	2305	53 58.69N	80 30.30E	54	25N	618188	24833	164 53	44 12	ND	ND	ND	2.726
155	8 52 53.774	2289	53 49.67N	80 34.42E	54	16N	617987	24833	164 58	44 16	ND	ND	ND	2.745
156	8 52 56.089	2314	53 40.55N	80 38.54E	54	7N	617787	24834	165 2	44 21	ND	ND	ND	2.715
157	8 52 58.397	2309	53 31.44N	80 42.62E	53	58N	617590	24834	165 6	44 25	ND	ND	ND	2.721
158	8 53 0.702	2305	53 22.35N	80 46.66E	53	48N	617396	24835	165 10	44 30	ND	ND	ND	2.726
159	8 53 3.003	2301	53 13.28N	80 50.66E	53	39N	617205	24835	165 14	44 34	ND	ND	ND	2.731
160	8 53 5.308	2304	53 4.18N	80 54.64E	53	30N	617018	24835	165 19	44 38	ND	ND	ND	2.727
161	8 53 7.612	2305	52 45.07N	80 58.58E	53	21N	616832	24836	165 23	44 43	ND	ND	ND	2.726
162	8 53 9.917	2305	52 36.88N	81 6.37E	53	12N	616650	24836	165 27	44 47	ND	ND	ND	2.726
163	8 53 12.218	2300	52 27.77N	81 10.22E	52	3N	616471	24837	165 31	44 51	ND	ND	ND	2.732
164	8 53 14.522	2305	52 18.68N	81 14.04E	52	54N	616296	24837	165 35	44 55	ND	ND	ND	2.726
165	8 53 16.823	2301	52 9.61N	81 17.81E	52	45N	616123	24838	165 39	44 5	ND	ND	ND	2.731
166	8 53 19.114	2291	52 0.48N	81 21.57E	52	36N	615953	24838	165 42	44 5	ND	ND	ND	2.743
167	8 53 21.423	2308	51 51.37N	81 25.30E	52	27N	615785	24838	165 46	44 8	ND	ND	ND	2.722
168	8 53 23.724	2301	51 42.25N	81 29.00E	52	17N	615620	24839	165 50	44 12	ND	ND	ND	2.731
169	8 53 26.027	2304	51 33.20N	81 32.65E	52	8N	615459	24839	165 54	44 16	ND	ND	ND	2.727
170	8 53 28.314	2287	51 24.07N	81 36.29E	51	59N	615301	24840	165 58	44 20	ND	ND	ND	2.747
171	8 53 30.617	2292	51 14.99N	81 39.89E	51	41N	615146	24840	166 2	44 24	ND	ND	ND	2.728
172	8 53 32.909	2303	51 5.86N	81 43.48E	51	32N	614994	24840	166 5	44 29	ND	ND	ND	2.741
173	8 53 35.212	2303	50 56.79N	81 47.02E	51	23N	614844	24841	166 9	44 33	ND	ND	ND	2.728
174	8 53 37.499	2287	50 47.65N	81 50.56E	51	14N	614699	24841	166 13	44 37	ND	ND	ND	2.747
175	8 53 39.803	2303	50 38.51N	81 54.07E	51	5N	614555	24841	166 16	44 41	ND	ND	ND	2.728
176	8 53 42.107	2303	50 29.37N	81 57.53E	50	55N	614414	24842	166 20	44 45	ND	ND	ND	2.726
177	8 53 44.410	2303	50 20.27N	82 0.99E	50	46N	614276	24842	166 23	44 49	ND	ND	ND	2.728
178	8 53 46.702	2292	50 11.07N	82 4.44E	50	37N	614141	24843	166 27	44 52	ND	ND	ND	2.741
179	8 53 49.019	2316	50 2.05N	82 7.80E	50	28N	614009	24843	166 30	44 56	ND	ND	ND	2.713
180	8 53 51.289	2271			50	28N	613882	24843	166 34	44 6	ND	ND	ND	2.767

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

SPECIAL HANDLING REQUIRED

HANDLE VIA TALENT-KEYHOLE CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

FRAME EPHMERIS

ID 27

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TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 04818-65

PASS	540 AFT 9AUG64		DTIM	CAMERA NADIR		FORMAT CENTER			ALTITUDE VELOC		AZIMUTH SUN/			PITCH		ROLL		YAW		SCAN RATE
	FRM	Z TIME		MILS	DEG MIN	DEG LONG	DEG MIN	DEG LONG	MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	DEG MIN	DEG MIN	DEG MIN	
181	8 53	53.580	2291	49 52.95N	82 11.16E	50	19N	82	08	613757	24843	166	37	46	4	ND	ND	ND	2.743	
182	8 53	55.880	2299	49 43.81N	82 14.51E	50	10N	82	08	613633	24844	166	41	46	8	ND	ND	ND	2.733	
183	8 53	58.188	2309	49 34.63N	82 17.85E	50	11N	82	07	613513	24844	166	44	46	12	ND	ND	ND	2.721	
184	8 54	0.487	2299	49 25.49N	82 21.15E	49	52N	82	10E	613397	24844	166	48	46	16	ND	ND	ND	2.733	
185	8 54	2.775	2288	49 16.39N	82 24.41E	49	42N	82	13E	613283	24845	166	51	46	19	ND	ND	ND	2.746	
186	8 54	5.082	2307	49 7.21N	82 27.68E	49	33N	82	17E	613172	24845	166	54	46	23	ND	ND	ND	2.724	
187	8 54	7.372	2298	48 58.10N	82 30.90E	49	24N	82	20E	613065	24845	166	58	46	27	ND	ND	ND	2.744	
188	8 54	9.668	2288	48 48.99N	82 34.09E	49	15N	82	23E	612961	24845	167	1	46	31	ND	ND	ND	2.746	
189	8 54	11.961	2301	48 39.83N	82 37.28E	49	6N	82	27E	612859	24846	167	4	46	34	ND	ND	ND	2.731	
190	8 54	14.269	2307	48 30.64N	82 40.45E	48	57N	82	30E	612760	24846	167	7	46	38	ND	ND	ND	2.724	
191	8 54	16.537	2269	48 21.60N	82 43.55E	48	48N	82	33E	612665	24846	167	11	46	41	ND	ND	ND	2.769	
192	8 54	18.824	2287	48 12.48N	82 46.65E	48	39N	82	36E	612573	24846	167	14	46	45	ND	ND	ND	2.747	
193	8 54	21.114	2290	48 3.36N	82 49.73E	48	29N	82	39E	612484	24847	167	17	46	49	ND	ND	ND	2.744	
194	8 54	23.417	2303	47 54.18N	82 52.81E	48	20N	82	42E	612397	24847	167	20	46	52	ND	ND	ND	2.728	
195	8 54	25.703	2286	47 45.06N	82 55.85E	48	11N	82	46E	612315	24847	167	23	46	56	ND	ND	ND	2.738	
196	8 54	27.998	2295	47 35.91N	82 58.88E	48	2N	82	49E	612234	24847	167	26	46	59	ND	ND	ND	2.749	
197	8 54	30.284	2286	47 26.78N	83 1.87E	47	53N	82	52E	612157	24847	167	29	47	3	ND	ND	ND	2.749	
198	8 54	32.587	2303	47 17.68N	83 4.87E	47	44N	82	55E	612082	24848	167	32	47	6	ND	ND	ND	2.728	
199	8 54	34.878	2291	47 8.45N	83 7.83E	47	35N	82	58E	612011	24848	167	35	47	10	ND	ND	ND	2.743	
200	8 54	37.164	2286	46 59.32N	83 10.76E	47	25N	83	1E	611943	24848	167	38	47	13	ND	ND	ND	2.744	
201	8 54	39.454	2290	46 50.18N	83 13.68E	47	16N	83	4E	611879	24848	167	41	47	16	ND	ND	ND	2.744	
202	8 54	41.758	2303	46 40.98N	83 16.59E	47	7N	83	7E	611816	24848	167	44	47	20	ND	ND	ND	2.728	
203	8 54	44.058	2308	46 31.79N	83 19.44E	46	58N	83	10E	611757	24848	167	47	47	23	ND	ND	ND	2.732	
204	8 54	46.345	2294	46 22.65N	83 22.34E	46	49N	83	13E	611701	24849	167	50	47	26	ND	ND	ND	2.747	
205	8 54	48.639	2302	46 13.48N	83 25.19E	46	40N	83	15E	611649	24849	167	53	47	30	ND	ND	ND	2.739	
206	8 54	50.948	2303	46 4.28N	83 28.02E	46	30N	83	18E	611592	24849	167	56	47	33	ND	ND	ND	2.729	
207	8 54	53.243	2303	45 55.07N	83 30.84E	46	21N	83	21E	611552	24849	167	59	47	36	ND	ND	ND	2.732	
208	8 54	55.543	2308	45 45.88N	83 33.64E	45	12N	83	24E	611508	24849	168	2	47	39	ND	ND	ND	2.741	
209	8 54	57.819	2276	45 36.77N	83 36.39E	45	3N	83	27E	611468	24849	168	4	47	43	ND	ND	ND	2.761	
210	8 55	0.109	2298	45 27.61N	83 39.14E	45	54N	83	30E	611431	24849	168	7	47	46	ND	ND	ND	2.744	
211	8 55	2.429	2311	45 18.33N	83 41.90E	45	44N	83	32E	611396	24849	168	10	47	49	ND	ND	ND	2.709	
212	8 55	4.699	2271	45 9.24N	83 44.59E	45	35N	83	35E	611366	24850	168	13	47	52	ND	ND	ND	2.767	
213	8 55	7.082	2303	45 0.02N	83 47.30E	45	26N	83	38E	611337	24850	168	15	47	55	ND	ND	ND	2.728	
214	8 55	9.309	2306	44 50.78N	83 50.00E	45	17N	83	41E	611312	24850	168	18	47	58	ND	ND	ND	2.725	
215	8 55	11.575	2267	44 41.71N	83 52.63E	45	8N	83	43E	611291	24850	168	21	48	1	ND	ND	ND	2.772	
216	8 55	13.883	2307	44 32.46N	83 55.30E	45	59N	83	46E	611272	24850	168	23	48	4	ND	ND	ND	2.724	
217	8 55	16.186	2303	44 23.24N	83 57.94E	44	49N	83	49E	611257	24850	168	26	48	7	ND	ND	ND	2.728	
218	8 55	18.488	2303	44 14.01N	84 0.56E	44	40N	83	52E	611244	24850	168	29	48	10	ND	ND	ND	2.767	
219	8 55	20.768	2271	44 4.91N	84 3.14E	44	31N	83	54E	611235	24850	168	31	48	13	ND	ND	ND	2.719	
220	8 55	23.070	2311	43 55.65N	84 5.74E	44	22N	83	57E	611229	24850	168	34	48	16	ND	ND	ND	2.753	
221	8 55	25.353	2282	43 46.49N	84 8.29E	44	13N	83	59E	611226	24850	168	36	48	19	ND	ND	ND	2.759	
222	8 55	27.638	2277	43 37.36N	84 10.82E	44	4N	84	5E	611229	24850	168	39	48	22	ND	ND	ND	2.733	
223	8 55	29.929	2299	43 28.14N	84 13.36E	43	54N	84	7E	611229	24850	168	42	48	25	ND	ND	ND	2.743	
224	8 55	32.228	2291	43 18.95N	84 15.87E	43	45N	84	10E	611235	24850	168	44	48	27	ND	ND	ND	2.728	
225	8 55	34.522	2303	43 9.71N	84 18.39E	43	36N	84	10E	611245	24850	168	47	48	30	ND	ND	ND	2.728	

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 54D AFT 9AUG64

FRAME EPHemerIS MISSION 1809-2

ID 27

LIST DATE 07MAY65

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FRM	HR MI	SEC	DTIM	MILS	DEG	LAT	LONG	DEG	MIN	LONG	DEG	MIN	DEG	MIN	FEET	F/S	DEG	MI	SUN/	DEG	MI	PITCH	DEG	MIN	ROLL	DEG	MIN	YAW	DEG	MIN	SCAN	RATE
226	8 55	36.828	2306		43	8.46N	84 28.89E	43	27N	84	12E	611257	24850	168	49	48	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.725			
227	8 55	39.100	2271		42	51.35N	84 23.33E	43	18N	84	15E	611273	24850	168	52	48	36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.767			
228	8 55	41.399	2300		42	42.11N	84 25.80E	43	8N	84	17E	611293	24850	168	54	48	38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.732			
229	8 55	43.694	2295		42	32.90N	84 28.24E	42	59N	84	20E	611314	24850	168	56	48	41	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.728			
230	8 55	45.997	2303		42	23.65N	84 30.68E	42	50N	84	22E	611340	24850	168	59	48	44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.728			
231	8 55	48.284	2287		42	14.47N	84 33.00E	42	41N	84	25E	611369	24850	169	1	48	46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.747			
232	8 55	50.585	2301		42	5.23N	84 35.49E	42	31N	84	27E	611401	24850	169	4	48	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.731			
233	8 55	52.893	2307		41	55.96N	84 37.89E	41	22N	84	29E	611436	24850	169	6	48	51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.724			
234	8 55	55.192	2300		41	46.72N	84 40.26E	42	13N	84	32E	611474	24850	169	8	48	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.732			
235	8 55	57.484	2292		41	37.51N	84 42.62E	42	4N	84	34E	611515	24850	169	11	48	56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.741			
236	8 55	59.792	2308		41	28.23N	84 44.97E	41	54N	84	37E	611559	24850	169	13	48	59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.722			
237	8 56	2.093	2300		41	18.98N	84 47.31E	41	45N	84	39E	611607	24849	169	15	49	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.732			
238	8 56	4.393	2300		41	9.74N	84 49.63E	41	36N	84	41E	611658	24849	169	18	49	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.732			
239	8 56	6.685	2292		41	0.52N	84 51.93E	41	27N	84	44E	611713	24849	169	20	49	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.741			
240	8 56	8.984	2300		40	51.27N	84 54.22E	41	18N	84	46E	611778	24849	169	22	49	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.732			
241	8 56	11.288	2304		40	42.00N	84 56.50E	41	8N	84	48E	611831	24849	169	24	49	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.727			
242	8 56	13.579	2291		40	32.79N	84 58.76E	40	59N	84	51E	611894	24849	169	27	49	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.743			
243	8 56	15.880	2300		40	23.53N	85 1.02E	40	50N	84	53E	611961	24849	169	29	49	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.732			
244	8 56	18.188	2308		40	14.25N	85 3.26E	40	41N	84	55E	612032	24849	169	31	49	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.722			
245	8 56	20.476	2288		40	5.04N	85 5.48E	40	31N	84	58E	612105	24848	169	33	49	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.746			
246	8 56	22.775	2300		39	55.78N	85 7.70E	40	22N	85	0E	612182	24848	169	35	49	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.732			
247	8 56	25.082	2307		39	46.50N	85 9.91E	40	13N	85	2E	612262	24848	169	38	49	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.724			
248	8 56	27.388	2305		39	37.21N	85 12.12E	40	4N	85	4E	612346	24848	169	40	49	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.726			
249	8 56	29.688	2300		39	27.95N	85 14.42E	39	54N	85	6E	612433	24848	169	42	49	29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.732			
250	8 56	31.992	2305		39	18.67N	85 16.45E	39	45N	85	9E	612523	24848	169	44	49	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.726			
251	8 56	34.298	2305		39	9.38N	85 18.61E	39	36N	85	11E	612616	24847	169	46	49	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.726			
252	8 56	36.603	2305		39	0.10N	85 20.76E	39	26N	85	13E	612713	24847	169	48	49	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.741			
253	8 56	38.895	2292		38	50.87N	85 22.88E	39	17N	85	15E	612812	24847	169	50	49	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.716			
254	8 56	41.207	2313		38	41.55N	85 25.01E	39	8N	85	17E	612911	24847	169	52	49	39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.726			
255	8 56	43.513	2305		38	32.26N	85 27.12E	38	59N	85	19E	613021	24846	169	54	49	42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.716			
256	8 56	45.817	2293		38	22.97N	85 29.22E	38	49N	85	22E	613132	24846	169	56	49	44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.726			
257	8 56	48.110	2295		38	13.73N	85 31.30E	38	40N	85	24E	613244	24846	169	58	49	46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.748			
258	8 56	50.423	2312		38	4.41N	85 33.38E	38	31N	85	26E	613360	24846	170	0	49	46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.718			
259	8 56	52.732	2310		37	55.09N	85 35.45E	38	22N	85	28E	613480	24845	170	2	49	48	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.720			
260	8 56	55.033	2301		37	45.82N	85 37.51E	38	12N	85	30E	613602	24845	170	4	49	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.731			
261	8 56	57.343	2309		37	36.50N	85 39.55E	38	3N	85	32E	613729	24845	170	6	49	51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.721			
262	8 56	59.640	2297		37	27.24N	85 41.58E	37	54N	85	34E	613858	24845	170	8	49	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.735			
263	8 57	1.944	2305		37	17.94N	85 43.60E	37	44N	85	36E	613991	24844	170	10	49	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.726			
264	8 57	4.268	2323		37	8.57N	85 45.63E	37	35N	85	38E	614127	24844	170	12	49	56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.705			
265	8 57	6.568	2301		36	59.29N	85 47.63E	37	26N	85	40E	614266	24844	170	14	49	58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.731			
266	8 57	8.877	2309		36	49.98N	85 49.62E	37	16N	85	42E	614409	24843	170	16	50	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.721			
267	8 57	11.183	2305		36	40.67N	85 51.60E	37	7N	85	44E	614555	24843	170	18	50	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.726			
268	8 57	13.485	2303		36	31.38N	85 53.57E	36	58N	85	46E	614705	24843	170	20	50	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.728			
269	8 57	15.803	2317		36	22.03N	85 55.54E	36	49N	85	48E	614858	24842	170	21	50	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.712			
270	8 57	18.109	2307		36	12.71N	85 57.49E	36	39N	85	50E	615014	24842	170	23	50	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.724			

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

MISSION 1009-2
ID 27
LIST DATE 07MAY65
PAGE 105

PASS	54D	AFT	9AUG64	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	DEG	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	FEET	F/S	MI	MI	MI	MI	MIN	MIN	MIN	RATE
271	8	57	20.448	36	3.30N	85	59.45E	36	30N	85	52E	615175	24842	170	25	50	7	50	7	ND	ND	ND	2.695	
272	8	57	22.750	35	53.98N	86	1.39E	36	28N	85	54E	615338	24841	170	27	50	9	50	9	ND	ND	ND	2.728	
273	8	57	25.053	35	44.68N	86	3.30E	36	11N	85	56E	615503	24841	170	29	50	10	50	10	ND	ND	ND	2.729	
274	8	57	27.384	35	35.27N	86	5.23E	36	2N	85	58E	615675	24840	170	31	50	11	50	11	ND	ND	ND	2.695	
275	8	57	29.691	35	25.95N	86	7.14E	35	53N	86	0E	615847	24840	170	32	50	13	50	13	ND	ND	ND	2.722	
276	8	57	31.994	35	16.65N	86	9.03E	35	43N	86	2E	616023	24840	170	34	50	14	50	14	ND	ND	ND	2.728	
277	8	57	34.333	35	7.28N	86	10.94E	35	34N	86	4E	616205	24839	170	36	50	15	50	15	ND	ND	ND	2.686	
278	8	57	36.653	34	57.83N	86	12.82E	35	24N	86	6E	616389	24839	170	38	50	17	50	17	ND	ND	ND	2.708	
279	8	57	38.939	34	48.59N	86	14.67E	35	15N	86	8E	616573	24839	170	39	50	18	50	18	ND	ND	ND	2.749	
280	8	57	41.263	34	39.21N	86	16.54E	35	6N	86	10E	616764	24838	170	41	50	19	50	19	ND	ND	ND	2.705	
281	8	57	43.577	34	29.85N	86	18.39E	34	56N	86	11E	616957	24838	170	43	50	20	50	20	ND	ND	ND	2.714	
282	8	57	45.897	34	20.48N	86	20.23E	34	47N	86	13E	617155	24837	170	44	50	21	50	21	ND	ND	ND	2.708	
283	8	57	48.218	34	11.10N	86	22.07E	34	38N	86	15E	617356	24837	170	46	50	22	50	22	ND	ND	ND	2.708	
284	8	57	50.537	34	1.72N	86	23.90E	34	28N	86	17E	617559	24836	170	48	50	23	50	23	ND	ND	ND	2.708	
285	8	57	52.857	33	52.35N	86	25.72E	34	19N	86	19E	617767	24836	170	50	50	24	50	24	ND	ND	ND	2.708	
286	8	57	55.178	33	42.97N	86	27.53E	34	10N	86	21E	617978	24835	170	51	50	25	50	25	ND	ND	ND	2.708	
287	8	57	57.497	33	33.59N	86	29.34E	34	0N	86	23E	618192	24835	170	53	50	26	50	26	ND	ND	ND	2.708	
288	8	57	59.822	33	24.19N	86	31.13E	33	51N	86	24E	618410	24834	170	54	50	27	50	27	ND	ND	ND	2.702	
289	8	58	2.143	33	14.80N	86	32.92E	33	42N	86	26E	618631	24834	170	56	50	28	50	28	ND	ND	ND	2.708	
290	8	58	4.459	33	5.44N	86	34.69E	33	32N	86	28E	618855	24833	170	58	50	29	50	29	ND	ND	ND	2.712	
291	8	58	6.792	32	56.00N	86	36.47E	33	23N	86	30E	619084	24833	170	59	50	30	50	30	ND	ND	ND	2.693	
292	8	58	9.117	32	46.60N	86	38.24E	33	13N	86	32E	619316	24832	171	1	50	31	50	31	ND	ND	ND	2.702	
293	8	58	11.435	32	37.23N	86	39.99E	32	4N	86	33E	619550	24832	171	2	50	31	50	31	ND	ND	ND	2.712	
294	8	58	13.755	32	27.84N	86	41.73E	32	55N	86	35E	619789	24831	171	4	50	32	50	32	ND	ND	ND	2.708	
295	8	58	16.073	32	18.38N	86	43.44E	32	45N	86	37E	620032	24831	171	6	50	33	50	33	ND	ND	ND	2.687	
296	8	58	18.414	32	8.99N	86	45.21E	32	36N	86	39E	620277	24830	171	7	50	33	50	33	ND	ND	ND	2.706	
297	8	58	20.744	31	59.56N	86	46.94E	32	26N	86	40E	620526	24830	171	9	50	34	50	34	ND	ND	ND	2.697	
298	8	58	23.069	31	58.15N	86	48.65E	32	17N	86	42E	620779	24829	171	10	50	35	50	35	ND	ND	ND	2.702	
299	8	58	25.400	31	48.72N	86	50.37E	32	8N	86	44E	621035	24828	171	12	50	35	50	35	ND	ND	ND	2.695	
300	8	58	27.738	31	31.26N	86	52.08E	31	58N	86	46E	621296	24828	171	13	50	36	50	36	ND	ND	ND	2.687	
301	8	58	30.072	31	21.81N	86	53.78E	31	49N	86	47E	621560	24827	171	15	50	36	50	36	ND	ND	ND	2.692	
302	8	58	32.395	31	12.42N	86	55.46E	31	39N	86	49E	621825	24827	171	16	50	37	50	37	ND	ND	ND	2.706	
303	8	58	34.732	31	2.95N	86	57.15E	31	30N	86	51E	622096	24826	171	18	50	37	50	37	ND	ND	ND	2.687	
304	8	58	37.067	30	53.50N	86	58.82E	31	20N	86	52E	622370	24825	171	19	50	37	50	37	ND	ND	ND	2.691	
305	8	58	39.402	30	44.85N	87	0.49E	31	11N	86	54E	622644	24825	171	21	50	38	50	38	ND	ND	ND	2.691	
306	8	58	41.737	30	34.60N	87	2.15E	31	2N	86	56E	622929	24824	171	22	50	38	50	38	ND	ND	ND	2.691	
307	8	58	44.072	30	25.14N	87	3.81E	30	52N	86	57E	623213	24824	171	24	50	38	50	38	ND	ND	ND	2.698	
308	8	58	46.408	30	15.68N	87	5.46E	30	43N	86	59E	623501	24823	171	25	50	39	50	39	ND	ND	ND	2.698	
309	8	58	48.747	29	6.21N	87	7.10E	30	33N	87	1E	623793	24822	171	26	50	39	50	39	ND	ND	ND	2.686	
310	8	58	51.079	29	56.77N	87	8.73E	30	24N	87	2E	624088	24822	171	28	50	39	50	39	ND	ND	ND	2.694	
311	8	58	53.423	29	47.28N	87	10.36E	30	14N	87	4E	624387	24821	171	29	50	40	50	40	ND	ND	ND	2.682	
312	8	58	55.755	29	37.85N	87	11.98E	30	5N	87	6E	624689	24820	171	31	50	40	50	40	ND	ND	ND	2.694	
313	8	58	58.107	29	28.31N	87	13.61E	29	55N	87	7E	624996	24819	171	32	50	40	50	40	ND	ND	ND	2.678	
314	8	59	0.444	29	18.84N	87	15.21E	29	46N	87	9E	625305	24819	171	33	50	40	50	40	ND	ND	ND	2.689	
315	8	59	2.792	29	9.33N	87	16.82E	29	36N	87	11E	625619	24818	171	35	50	40	50	40	ND	ND	ND	2.676	

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS	54D AFT	9AUG64	CAMERA NADIR				FORMAT CENTER				MISSION 1889-2				ID 27	LIST DATE 07MAY65				PAGE 186
FRM	Z TIME	DTIM	LAT	DEG MIN	DEG	LONG	DEG MIN	DEG	LONG	ALTITUDE FEET	VELOC F/S	DEG MI	DEG MI	SUN/	PITCH	ROLL	YAW	SCAN RATE		
HR MI	SEC	MILS	DEG MIN	DEG MIN	DEG	MIN	DEG MIN	DEG	MIN	FEET	F/S	DEG MI	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE		
316	8 59	5.135	28 59.84N	87 18.42E	29	27N	87	12E	12E	625936	24817	171	36	50	40	ND	ND	2.683		
317	8 59	7.479	28 50.34N	87 20.01E	29	17N	87	14E	14E	626257	24817	171	37	50	40	ND	ND	2.679		
318	8 59	9.819	28 40.86N	87 21.59E	29	8N	87	15E	15E	626588	24816	171	39	50	40	ND	ND	2.685		
319	8 59	12.169	28 31.34N	87 23.17E	28	58N	87	17E	17E	626988	24815	171	40	50	40	ND	ND	2.685		
320	8 59	14.520	28 21.82N	87 24.75E	28	49N	87	19E	19E	627241	24814	171	41	50	40	ND	ND	2.674		
321	8 59	16.877	28 12.27N	87 26.32E	28	39N	87	20E	20E	627577	24814	171	43	50	39	ND	ND	2.665		
322	8 59	19.228	28 2.74N	87 27.89E	28	30N	87	22E	22E	627916	24813	171	44	50	39	ND	ND	2.674		
323	8 59	21.577	27 53.22N	87 29.44E	28	20N	87	23E	23E	628259	24812	171	45	50	39	ND	ND	2.674		
324	8 59	23.929	27 43.69N	87 30.99E	28	11N	87	25E	25E	628605	24811	171	47	50	39	ND	ND	2.673		
325	8 59	26.282	27 34.16N	87 32.54E	28	1N	87	26E	26E	628954	24810	171	48	50	38	ND	ND	2.669		
326	8 59	28.638	27 24.61N	87 34.08E	27	52N	87	28E	28E	629308	24810	171	49	50	38	ND	ND	2.668		
327	8 59	30.985	27 15.18N	87 35.61E	27	42N	87	30E	30E	629665	24809	171	50	50	38	ND	ND	2.676		
328	8 59	33.353	27 5.58N	87 37.15E	27	33N	87	31E	31E	630027	24808	171	52	50	37	ND	ND	2.654		
329	8 59	35.707	26 55.96N	87 38.67E	27	23N	87	33E	33E	630392	24807	171	53	50	37	ND	ND	2.668		
330	8 59	38.060	26 46.42N	87 40.18E	27	14N	87	34E	34E	630760	24806	171	54	50	36	ND	ND	2.671		
331	8 59	40.425	26 36.83N	87 41.70E	27	4N	87	36E	36E	631132	24805	171	55	50	36	ND	ND	2.657		
332	8 59	42.798	26 27.21N	87 43.22E	26	55N	87	37E	37E	631510	24805	171	56	50	35	ND	ND	2.648		
333	8 59	45.162	26 17.63N	87 44.72E	26	45N	87	39E	39E	631890	24804	171	58	50	35	ND	ND	2.657		
334	8 59	47.527	26 8.04N	87 46.22E	26	35N	87	40E	40E	632274	24803	171	59	50	34	ND	ND	2.657		

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

MISSION 1009-2
ID 27
LIST DATE 07MAY65
PAGE 107

FRM	Z TIME	DTIM	CAMERA	NADR	FORMAT	ALTITUDE	VELOC	DEG MI	DEG MI	DEG MI	PITCH	ROLL	YAW	SCAN
HR MI	SEC	MILS	LAT	LONG	MIN	FEET	F/S	MI	MI	MI	MIN	MIN	MIN	RATE
1 10	18 55.739	3373	71 19.97N	41 32.82E	71	661077	24731	148 19	33 25	ND	ND	ND	1.863	
2 10	18 59.112	2737	71 8.31N	41 55.02E	71	660341	24733	148 42	33 34	ND	ND	ND	2.296	
3 10	19 1.850	2737	70 58.81N	42 12.69E	71	659746	24734	149 0	33 42	ND	ND	ND	2.426	
4 10	19 4.439	2590	70 49.80N	42 29.15E	71	659186	24736	149 16	33 49	ND	ND	ND	2.498	
5 10	19 6.954	2515	70 41.02N	42 44.88E	71	658644	24737	149 32	33 55	ND	ND	ND	2.520	
6 10	19 9.447	2493	70 32.38N	43 0.25E	70	658111	24738	149 48	34 2	ND	ND	ND	2.548	
7 10	19 11.913	2466	70 23.64N	43 15.22E	70	657585	24739	150 3	34 9	ND	ND	ND	2.564	
8 10	19 14.364	2451	70 15.02N	43 29.89E	70	657066	24741	150 18	34 15	ND	ND	ND	2.555	
9 10	19 16.823	2459	70 6.34N	43 44.39E	70	656548	24742	150 33	34 22	ND	ND	ND	2.566	
10 10	19 19.272	2449	69 57.68N	43 58.63E	70	656034	24743	150 48	34 28	ND	ND	ND	2.580	
11 10	19 21.707	2435	69 49.05N	44 12.58E	70	655525	24744	151 16	34 34	ND	ND	ND	2.580	
12 10	19 24.143	2435	69 40.40N	44 26.34E	70	655017	24745	151 16	34 41	ND	ND	ND	2.589	
13 10	19 26.569	2427	69 31.76N	44 39.86E	69	654517	24747	151 30	34 47	ND	ND	ND	2.589	
14 10	19 28.999	2430	69 23.09N	44 53.21E	69	654018	24748	151 43	34 54	ND	ND	ND	2.586	
15 10	19 31.419	2420	69 14.43N	45 6.31E	69	653522	24749	151 57	35 0	ND	ND	ND	2.587	
16 10	19 33.849	2429	69 5.72N	45 19.29E	69	653027	24750	152 10	35 6	ND	ND	ND	2.587	
17 10	19 36.265	2416	68 57.04N	45 32.02E	69	652538	24751	152 23	35 13	ND	ND	ND	2.602	
18 10	19 38.680	2415	68 48.35N	45 44.57E	69	652052	24752	152 36	35 19	ND	ND	ND	2.597	
19 10	19 41.099	2419	68 39.63N	45 56.97E	69	651567	24754	152 49	35 25	ND	ND	ND	2.603	
20 10	19 43.513	2414	68 30.90N	46 9.18E	68	651085	24755	153 1	35 31	ND	ND	ND	2.616	
21 10	19 45.914	2402	68 22.21N	46 21.16E	68	650609	24756	153 13	35 38	ND	ND	ND	2.604	
22 10	19 48.327	2413	68 13.46N	46 33.04E	68	650133	24757	153 25	35 44	ND	ND	ND	2.611	
23 10	19 50.733	2406	68 4.71N	46 44.73E	68	649661	24758	153 37	35 58	ND	ND	ND	2.617	
24 10	19 53.135	2401	67 55.97N	46 56.25E	68	649192	24759	153 49	35 56	ND	ND	ND	2.618	
25 10	19 55.534	2400	67 47.22N	47 7.68E	68	648726	24760	154 1	36 2	ND	ND	ND	2.604	
26 10	19 57.947	2413	67 38.41N	47 18.87E	68	648261	24761	154 12	36 9	ND	ND	ND	2.618	
27 10	20 0.348	2407	67 29.63N	47 29.94E	67	647800	24762	154 24	36 15	ND	ND	ND	2.632	
28 10	20 2.734	2387	67 20.88N	47 40.80E	67	647344	24763	154 35	36 21	ND	ND	ND	2.620	
29 10	20 5.133	2398	67 12.08N	47 51.57E	67	646889	24765	154 46	36 27	ND	ND	ND	2.622	
30 10	20 7.528	2396	67 3.27N	48 2.19E	67	646437	24766	154 57	36 33	ND	ND	ND	2.633	
31 10	20 9.914	2386	66 54.49N	48 12.64E	67	645990	24767	155 8	36 39	ND	ND	ND	2.634	
32 10	20 12.300	2385	66 45.69N	48 22.96E	67	645544	24768	155 18	36 45	ND	ND	ND	2.634	
33 10	20 14.685	2385	66 36.88N	48 33.14E	67	645102	24769	155 29	36 51	ND	ND	ND	2.623	
34 10	20 17.079	2395	66 28.03N	48 43.24E	66	644660	24770	155 39	36 57	ND	ND	ND	2.634	
35 10	20 19.465	2385	66 19.19N	48 53.17E	66	644223	24771	155 49	37 3	ND	ND	ND	2.631	
36 10	20 21.853	2388	66 10.34N	49 2.99E	66	643788	24772	155 59	37 9	ND	ND	ND	2.640	
37 10	20 24.232	2380	66 1.50N	49 12.66E	66	643357	24773	156 9	37 15	ND	ND	ND	2.634	
38 10	20 26.617	2385	65 52.63N	49 22.24E	66	642927	24774	156 19	37 21	ND	ND	ND	2.634	
39 10	20 28.989	2372	65 43.80N	49 31.64E	66	642503	24775	156 29	37 27	ND	ND	ND	2.649	
40 10	20 31.369	2380	65 34.93N	49 40.96E	66	642080	24776	156 38	37 33	ND	ND	ND	2.637	
41 10	20 33.752	2383	65 26.03N	49 50.19E	65	641658	24777	156 48	37 39	ND	ND	ND	2.649	
42 10	20 36.124	2372	65 17.17N	49 59.26E	65	641242	24778	156 57	37 44	ND	ND	ND	2.637	
43 10	20 38.508	2370	65 8.25N	50 8.27E	65	640825	24779	157 6	37 50	ND	ND	ND	2.651	
44 10	20 40.877	2370	64 59.37N	50 17.11E	65	640415	24780	157 15	37 56	ND	ND	ND	2.651	
45 10	20 43.259	2362	64 50.51N	50 25.03E	65	640007	24781	157 24	38 2	ND	ND	ND	2.660	

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
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SPECIAL HANDLING REQUIRED

MISSION 1089-2

ID 27

LIST DATE 07MAY65

PAGE 108

PASS 55D AFT 9AUG64

FRM	HR	MI	SEC	DTIM	DEG	LAT	DEG	LONG	DEG	LAT	DEG	LONG	ALTITUDE	VELOC	DEG	MI	DEG	MI	PITCH	ROLL	YAW	SCAN
				MILS	MIN		MIN	MIN	MIN	MIN	MIN	MIN	FEET	F/S	MI	MI	MI	MI	MIN	MIN	MIN	RATE
46	10	20	45.689	2370	64	41.61N	50	34.48E	65	7N	50	8E	639602	24782	157	33	38	8	ND	ND	ND	2.651
47	10	20	47.979	2370	64	32.78N	50	43.02E	64	59N	50	17E	639197	24783	157	42	38	14	ND	ND	ND	2.651
48	10	20	50.345	2365	64	23.88N	50	51.45E	64	50N	50	25E	638799	24784	157	51	38	19	ND	ND	ND	2.657
49	10	20	52.715	2370	64	14.87N	50	59.80E	64	41N	50	34E	638400	24785	157	59	38	25	ND	ND	ND	2.657
50	10	20	55.079	2365	64	5.95N	51	8.04E	64	32N	50	43E	638006	24785	158	8	38	31	ND	ND	ND	2.652
51	10	20	57.448	2369	63	57.01N	51	16.20E	64	23N	50	51E	637613	24786	158	16	38	37	ND	ND	ND	2.667
52	10	20	59.805	2356	63	48.10N	51	24.22E	64	14N	50	59E	637226	24787	158	24	38	42	ND	ND	ND	2.667
53	10	21	2.168	2364	63	39.16N	51	32.17E	64	5N	51	8E	636839	24788	158	33	38	48	ND	ND	ND	2.658
54	10	21	4.524	2356	63	30.24N	51	40.82E	63	56N	51	16E	636457	24789	158	41	38	54	ND	ND	ND	2.653
55	10	21	6.893	2368	63	21.26N	51	47.81E	63	47N	51	24E	636075	24790	158	49	38	59	ND	ND	ND	2.676
56	10	21	9.240	2348	63	12.36N	51	55.46E	63	38N	51	32E	635699	24791	158	57	39	5	ND	ND	ND	2.668
57	10	21	11.596	2355	63	3.41N	52	3.04E	63	29N	51	40E	635325	24792	159	4	39	11	ND	ND	ND	2.654
58	10	21	13.962	2367	62	54.42N	52	10.50E	63	20N	51	47E	634951	24793	159	12	39	16	ND	ND	ND	2.668
59	10	21	16.317	2355	62	45.46N	52	17.99E	63	11N	52	55E	634582	24794	159	20	39	22	ND	ND	ND	2.674
60	10	21	18.667	2350	62	36.51N	52	25.32E	63	54N	52	3E	634217	24794	159	27	39	27	ND	ND	ND	2.674
61	10	21	21.018	2350	62	27.55N	52	32.56E	62	52N	52	10E	633853	24795	159	35	39	33	ND	ND	ND	2.674
62	10	21	23.354	2357	62	18.64N	52	39.69E	62	45N	52	17E	633496	24796	159	42	39	38	ND	ND	ND	2.689
63	10	21	25.704	2358	62	9.66N	52	46.77E	62	36N	52	25E	633138	24797	159	49	39	44	ND	ND	ND	2.674
64	10	21	28.063	2358	62	0.65N	52	53.81E	62	27N	52	32E	632782	24798	159	57	39	49	ND	ND	ND	2.665
65	10	21	30.412	2350	61	51.67N	53	0.75E	62	18N	52	39E	632429	24799	160	4	39	55	ND	ND	ND	2.674
66	10	21	32.749	2337	61	42.72N	53	7.58E	62	9N	52	46E	632082	24799	160	11	40	0	ND	ND	ND	2.689
67	10	21	35.098	2348	61	33.73N	53	14.37E	62	0N	53	53E	631736	24800	160	18	40	6	ND	ND	ND	2.676
68	10	21	37.447	2350	61	24.72N	53	21.10E	61	51N	53	0E	631391	24801	160	25	40	11	ND	ND	ND	2.674
69	10	21	39.784	2337	61	15.76N	53	27.72E	61	42N	53	7E	631052	24802	160	32	40	17	ND	ND	ND	2.689
70	10	21	42.138	2353	61	6.72N	53	34.31E	61	33N	53	14E	630713	24803	160	39	40	22	ND	ND	ND	2.670
71	10	21	44.478	2348	60	57.73N	53	40.80E	61	24N	53	20E	630379	24803	160	45	40	27	ND	ND	ND	2.685
72	10	21	46.818	2332	60	48.77N	53	47.21E	61	15N	53	27E	630048	24804	160	52	40	33	ND	ND	ND	2.694
73	10	21	49.146	2336	60	39.78N	53	53.56E	61	6N	53	34E	629719	24805	160	58	40	38	ND	ND	ND	2.690
74	10	21	51.497	2352	60	30.72N	53	59.89E	60	57N	53	40E	629392	24806	161	5	40	44	ND	ND	ND	2.671
75	10	21	53.833	2336	60	21.72N	54	6.11E	60	48N	53	47E	629089	24807	161	11	40	49	ND	ND	ND	2.690
76	10	21	56.173	2339	60	12.70N	54	18.38E	60	39N	53	53E	628748	24807	161	18	40	54	ND	ND	ND	2.686
77	10	21	58.508	2335	59	5.68N	54	24.41E	60	30N	53	59E	628430	24808	161	24	40	59	ND	ND	ND	2.691
78	10	22	0.843	2335	59	45.71N	54	30.35E	60	21N	54	5E	628116	24809	161	30	41	5	ND	ND	ND	2.691
79	10	22	3.164	2332	59	36.68N	54	36.27E	60	12N	54	12E	627805	24810	161	36	41	10	ND	ND	ND	2.706
80	10	22	5.499	2335	59	27.65N	54	42.13E	59	3N	54	18E	627496	24810	161	43	41	15	ND	ND	ND	2.691
81	10	22	7.834	2335	59	18.60N	54	47.95E	59	54N	54	24E	627189	24811	161	49	41	20	ND	ND	ND	2.687
82	10	22	10.173	2338	59	9.63N	54	53.65E	59	45N	54	30E	626887	24812	161	55	41	25	ND	ND	ND	2.712
83	10	22	12.489	2317	59	0.57N	54	59.35E	59	36N	54	36E	626587	24812	162	1	41	31	ND	ND	ND	2.687
84	10	22	14.827	2338	59	0.57N	54	59.35E	59	27N	54	41E	626288	24813	162	6	41	36	ND	ND	ND	2.687
85	10	22	17.149	2322	58	51.56N	55	4.96E	59	18N	54	47E	625994	24814	162	12	41	41	ND	ND	ND	2.706
86	10	22	19.483	2334	58	42.51N	55	10.54E	59	9N	54	53E	625701	24815	162	18	41	46	ND	ND	ND	2.692
87	10	22	21.805	2321	58	33.49N	55	16.04E	59	0N	54	59E	625413	24815	162	24	41	51	ND	ND	ND	2.707
88	10	22	24.138	2333	58	24.43N	55	21.52E	58	51N	55	4E	625126	24816	162	29	42	56	ND	ND	ND	2.693
89	10	22	26.459	2322	58	15.41N	55	26.91E	58	41N	55	10E	624844	24817	162	35	42	1	ND	ND	ND	2.706
90	10	22	28.792	2333	58	6.34N	55	32.29E	58	32N	55	15E	624563	24817	162	40	42	6	ND	ND	ND	2.693

TOP SECRET
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HANDLE VIA
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TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 5SD AFT 9AU664

FRAME EPHEMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65 PAGE 189

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	DEG MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
91 10 22 31.117	2325	57 57.29N	55 37.59E	58 23N	55 21E	624286	24818	162 46	42 11	ND	ND	ND	ND	2.782
92 10 22 33.435	2317	57 48.27N	55 42.83E	58 14N	55 26E	624811	24819	162 51	42 16	ND	ND	ND	ND	2.712
93 10 22 35.754	2320	57 39.23N	55 48.03E	58 5N	55 31E	623740	24819	162 57	42 21	ND	ND	ND	ND	2.708
94 10 22 38.087	2333	57 30.14N	55 53.20E	57 56N	55 37E	623470	24820	163 2	42 26	ND	ND	ND	ND	2.693
95 10 22 40.407	2320	57 21.09N	55 58.31E	57 47N	55 42E	623292	24821	163 7	42 31	ND	ND	ND	ND	2.708
96 10 22 42.715	2307	57 12.09N	56 3.34E	57 38N	55 47E	622942	24821	163 13	42 36	ND	ND	ND	ND	2.708
97 10 22 45.034	2320	57 3.03N	56 8.34E	57 29N	55 52E	622662	24822	163 18	42 41	ND	ND	ND	ND	2.724
98 10 22 47.354	2320	56 53.97N	56 13.31E	57 20N	55 57E	622425	24822	163 23	42 46	ND	ND	ND	ND	2.708
99 10 22 49.678	2323	56 44.90N	56 18.24E	57 11N	56 3E	622170	24823	163 28	42 51	ND	ND	ND	ND	2.705
100 10 22 51.992	2315	56 35.85N	56 23.10E	57 2N	56 8E	621918	24824	163 33	42 55	ND	ND	ND	ND	2.714
101 10 22 54.300	2307	56 26.82N	56 27.91E	56 53N	56 12E	621671	24824	163 38	43 0	ND	ND	ND	ND	2.724
102 10 22 56.619	2320	56 17.75N	56 32.70E	56 44N	56 17E	621425	24825	163 43	43 5	ND	ND	ND	ND	2.708
103 10 22 58.938	2319	56 8.67N	56 37.45E	56 35N	56 22E	621181	24825	163 48	43 10	ND	ND	ND	ND	2.709
104 10 23 1.244	2306	55 59.64N	56 42.13E	56 26N	56 27E	620943	24826	163 53	43 14	ND	ND	ND	ND	2.725
105 10 23 3.560	2315	55 50.57N	56 46.78E	56 17N	56 32E	620706	24827	163 58	43 19	ND	ND	ND	ND	2.714
106 10 23 5.883	2323	55 41.46N	56 51.42E	56 8N	56 37E	620470	24827	164 2	43 24	ND	ND	ND	ND	2.705
107 10 23 8.185	2302	55 32.43N	56 55.97E	55 59N	56 41E	620240	24828	164 7	43 29	ND	ND	ND	ND	2.729
108 10 23 10.494	2310	55 23.37N	57 0.49E	55 49N	56 46E	620012	24828	164 12	43 33	ND	ND	ND	ND	2.720
109 10 23 12.808	2313	55 14.29N	57 4.99E	55 40N	56 51E	619787	24829	164 16	43 38	ND	ND	ND	ND	2.716
110 10 23 15.118	2311	55 5.22N	57 9.44E	55 31N	56 55E	619564	24830	164 21	43 42	ND	ND	ND	ND	2.719
111 10 23 17.415	2297	54 56.19N	57 13.83E	55 22N	57 0E	619346	24830	164 25	43 47	ND	ND	ND	ND	2.735
112 10 23 19.725	2309	54 47.12N	57 18.20E	55 13N	57 4E	619129	24830	164 30	43 52	ND	ND	ND	ND	2.721
113 10 23 22.042	2318	54 38.00N	57 22.56E	55 4N	57 9E	618915	24831	164 35	43 56	ND	ND	ND	ND	2.726
114 10 23 24.348	2305	54 28.94N	57 26.85E	55 55N	57 13E	618703	24831	164 39	44 1	ND	ND	ND	ND	2.726
115 10 23 26.649	2302	54 19.88N	57 31.10E	54 46N	57 17E	618496	24832	164 43	44 5	ND	ND	ND	ND	2.729
116 10 23 28.958	2309	54 10.79N	57 35.33E	54 37N	57 22E	618291	24832	164 48	44 10	ND	ND	ND	ND	2.721
117 10 23 31.258	2299	54 1.74N	57 39.51E	54 28N	57 26E	618090	24833	164 52	44 14	ND	ND	ND	ND	2.733
118 10 23 33.563	2305	53 52.66N	57 43.66E	54 19N	57 30E	617890	24833	164 56	44 19	ND	ND	ND	ND	2.726
119 10 23 35.867	2305	53 43.57N	57 47.78E	54 10N	57 34E	617694	24834	165 1	44 23	ND	ND	ND	ND	2.726
120 10 23 38.173	2305	53 34.48N	57 51.87E	54 1N	57 39E	617501	24834	165 5	44 28	ND	ND	ND	ND	2.726
121 10 23 40.474	2301	53 25.41N	57 55.91E	53 52N	57 43E	617311	24835	165 9	44 32	ND	ND	ND	ND	2.731
122 10 23 42.778	2304	53 16.32N	57 59.93E	53 42N	57 47E	617124	24835	165 13	44 36	ND	ND	ND	ND	2.726
123 10 23 45.082	2304	53 7.22N	58 3.92E	53 33N	57 51E	616939	24836	165 17	44 41	ND	ND	ND	ND	2.727
124 10 23 47.374	2292	52 58.18N	58 7.85E	53 24N	57 55E	616759	24836	165 21	44 45	ND	ND	ND	ND	2.741
125 10 23 49.678	2303	52 49.08N	58 11.77E	53 15N	57 59E	616579	24836	165 25	44 49	ND	ND	ND	ND	2.727
126 10 23 51.982	2305	52 39.97N	58 15.66E	53 6N	58 3E	616404	24837	165 29	44 54	ND	ND	ND	ND	2.728
127 10 23 54.282	2300	52 30.88N	58 19.52E	52 57N	58 7E	616231	24837	165 33	44 58	ND	ND	ND	ND	2.726
128 10 23 56.578	2288	52 21.84N	58 23.32E	52 48N	58 11E	616062	24838	165 37	45 2	ND	ND	ND	ND	2.732
129 10 23 58.877	2307	52 12.71N	58 27.13E	52 39N	58 15E	615895	24838	165 41	45 7	ND	ND	ND	ND	2.746
130 10 24 1.178	2300	52 3.61N	58 30.89E	52 30N	58 19E	615731	24839	165 45	45 11	ND	ND	ND	ND	2.724
131 10 24 3.470	2292	51 54.54N	58 34.61E	52 21N	58 22E	615571	24839	165 49	45 15	ND	ND	ND	ND	2.732
132 10 24 5.771	2301	51 45.43N	58 38.32E	52 12N	58 26E	615413	24839	165 53	45 19	ND	ND	ND	ND	2.741
133 10 24 8.077	2307	51 36.30N	58 42.01E	52 2N	58 30E	615257	24840	165 57	45 23	ND	ND	ND	ND	2.731
134 10 24 10.364	2287	51 27.24N	58 45.64E	51 53N	58 34E	615106	24840	166 0	45 27	ND	ND	ND	ND	2.724
135 10 24 12.664	2300	51 18.13N	58 49.26E	51 44N	58 37E	614957	24840	166 4	45 31	ND	ND	ND	ND	2.732

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SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 550 AFT 9AUG64

FRAME EPHEMERIS MISSION 1809-2

ID 27

LIST DATE 07MAY65 PAGE 110

FRM	HR	MI	SEC	DTIM	DEG	LAT	DEG	LONG	DEG	LAT	DEG	LONG	ALTITUDE	VELOC	DEG	MI	DEG	MI	PITCH	DEG	MIN	ROLL	DEG	MIN	YAW	DEG	MIN	SCAN	RATE
136	10	24	14.973	2308	51	8.97N	58	52.87E	51	35N	58	41E	614810	24841	166	8	45	36	ND	ND	ND	ND	ND	ND	ND	ND	2.752	2.752	
137	10	24	17.272	2308	50	59.86N	58	56.43E	51	26N	58	45E	614666	24841	166	11	45	40	ND	ND	ND	ND	ND	ND	ND	ND	2.752	2.752	
138	10	24	19.560	2287	50	50.78N	58	59.95E	51	17N	58	48E	614528	24841	166	15	45	44	ND	ND	ND	ND	ND	ND	ND	ND	2.747	2.747	
139	10	24	21.863	2304	50	41.65N	59	3.47E	51	8N	58	52E	614390	24842	166	19	45	48	ND	ND	ND	ND	ND	ND	ND	ND	2.727	2.727	
140	10	24	24.167	2304	50	32.50N	59	6.96E	50	59N	58	55E	614255	24842	166	22	45	52	ND	ND	ND	ND	ND	ND	ND	ND	2.727	2.727	
141	10	24	26.455	2308	50	23.42N	59	10.41E	50	50N	58	59E	614124	24842	166	26	45	56	ND	ND	ND	ND	ND	ND	ND	ND	2.746	2.746	
142	10	24	28.763	2307	50	14.26N	59	13.85E	50	40N	59	2E	613995	24843	166	29	46	0	ND	ND	ND	ND	ND	ND	ND	ND	2.724	2.724	
143	10	24	31.050	2287	50	5.17N	59	17.24E	50	31N	59	6E	613871	24843	166	33	46	3	ND	ND	ND	ND	ND	ND	ND	ND	2.747	2.747	
144	10	24	33.353	2303	49	56.02N	59	20.63E	50	22N	59	9E	613748	24843	166	36	46	7	ND	ND	ND	ND	ND	ND	ND	ND	2.728	2.728	
145	10	24	35.643	2290	49	46.92N	59	23.98E	50	13N	59	13E	613629	24844	166	40	46	11	ND	ND	ND	ND	ND	ND	ND	ND	2.744	2.744	
146	10	24	37.930	2287	49	37.83N	59	27.29E	50	4N	59	16E	613513	24844	166	43	46	15	ND	ND	ND	ND	ND	ND	ND	ND	2.747	2.747	
147	10	24	40.221	2291	49	28.72N	59	30.59E	49	55N	59	20E	613400	24844	166	46	46	19	ND	ND	ND	ND	ND	ND	ND	ND	2.743	2.743	
148	10	24	42.520	2299	49	19.58N	59	33.88E	49	46N	59	23E	613289	24845	166	50	46	23	ND	ND	ND	ND	ND	ND	ND	ND	2.733	2.733	
149	10	24	44.811	2291	49	10.46N	59	37.13E	49	27N	59	26E	613182	24845	166	53	46	26	ND	ND	ND	ND	ND	ND	ND	ND	2.743	2.743	
150	10	24	47.117	2307	49	1.28N	59	40.38E	49	27N	59	30E	613077	24845	166	56	46	30	ND	ND	ND	ND	ND	ND	ND	ND	2.724	2.724	
151	10	24	49.400	2283	48	52.20N	59	43.57E	49	18N	59	33E	612977	24845	167	0	46	34	ND	ND	ND	ND	ND	ND	ND	ND	2.752	2.752	
152	10	24	51.694	2294	48	43.06N	59	46.76E	49	9N	59	36E	612879	24846	167	3	46	38	ND	ND	ND	ND	ND	ND	ND	ND	2.739	2.739	
153	10	24	53.997	2303	48	33.89N	59	49.93E	49	0N	59	39E	612783	24846	167	6	46	41	ND	ND	ND	ND	ND	ND	ND	ND	2.728	2.728	
154	10	24	56.284	2287	48	24.78N	59	53.08E	48	51N	59	42E	612690	24846	167	9	46	45	ND	ND	ND	ND	ND	ND	ND	ND	2.747	2.747	
155	10	24	58.574	2290	48	15.66N	59	56.18E	48	42N	59	46E	612602	24846	167	13	46	49	ND	ND	ND	ND	ND	ND	ND	ND	2.744	2.744	
156	10	25	0.877	2303	48	6.48N	59	59.28E	48	33N	59	49E	612515	24846	167	16	46	52	ND	ND	ND	ND	ND	ND	ND	ND	2.728	2.728	
157	10	25	3.164	2287	47	57.36N	60	2.35E	48	24N	59	52E	612435	24847	167	19	46	56	ND	ND	ND	ND	ND	ND	ND	ND	2.747	2.747	
158	10	25	5.465	2300	47	48.19N	60	5.41E	48	14N	59	55E	612352	24847	167	22	46	59	ND	ND	ND	ND	ND	ND	ND	ND	2.732	2.732	
159	10	25	7.768	2303	47	39.00N	60	8.46E	48	5N	59	58E	612274	24847	167	25	47	3	ND	ND	ND	ND	ND	ND	ND	ND	2.728	2.728	
160	10	25	10.058	2290	47	29.87N	60	11.46E	47	56N	60	1E	612201	24847	167	28	47	6	ND	ND	ND	ND	ND	ND	ND	ND	2.744	2.744	
161	10	25	12.345	2287	47	20.74N	60	14.45E	47	47N	60	4E	612130	24847	167	31	47	10	ND	ND	ND	ND	ND	ND	ND	ND	2.747	2.747	
162	10	25	14.652	2308	47	11.53N	60	17.43E	47	38N	60	7E	612061	24848	167	34	47	14	ND	ND	ND	ND	ND	ND	ND	ND	2.722	2.722	
163	10	25	16.942	2290	47	2.39N	60	20.38E	47	29N	60	10E	611997	24848	167	37	47	17	ND	ND	ND	ND	ND	ND	ND	ND	2.744	2.744	
164	10	25	19.225	2282	46	53.28N	60	23.29E	47	19N	60	13E	611935	24848	167	40	47	20	ND	ND	ND	ND	ND	ND	ND	ND	2.753	2.753	
165	10	25	21.527	2303	46	44.08N	60	26.22E	47	10N	60	16E	611876	24848	167	43	47	24	ND	ND	ND	ND	ND	ND	ND	ND	2.728	2.728	
166	10	25	23.822	2295	46	34.91N	60	29.11E	47	1N	60	19E	611820	24848	167	46	47	27	ND	ND	ND	ND	ND	ND	ND	ND	2.738	2.738	
167	10	25	26.104	2282	46	25.79N	60	31.96E	46	52N	60	22E	611768	24848	167	49	47	30	ND	ND	ND	ND	ND	ND	ND	ND	2.753	2.753	
168	10	25	28.407	2303	46	16.59N	60	34.83E	46	43N	60	25E	611718	24849	167	52	47	34	ND	ND	ND	ND	ND	ND	ND	ND	2.728	2.728	
169	10	25	30.695	2288	46	7.44N	60	37.65E	46	34N	60	28E	611672	24849	167	55	47	37	ND	ND	ND	ND	ND	ND	ND	ND	2.746	2.746	
170	10	25	32.990	2295	45	58.27N	60	40.47E	46	24N	60	31E	611628	24849	167	58	47	40	ND	ND	ND	ND	ND	ND	ND	ND	2.738	2.738	
171	10	25	35.292	2302	45	49.06N	60	43.28E	46	15N	60	34E	611588	24849	168	1	47	44	ND	ND	ND	ND	ND	ND	ND	ND	2.729	2.729	
172	10	25	37.575	2283	45	39.93N	60	46.04E	46	6N	60	37E	611551	24849	168	3	47	47	ND	ND	ND	ND	ND	ND	ND	ND	2.752	2.752	
173	10	25	39.870	2293	45	30.75N	60	48.80E	45	57N	60	39E	611516	24849	168	6	47	50	ND	ND	ND	ND	ND	ND	ND	ND	2.738	2.738	
174	10	25	42.169	2299	45	21.55N	60	51.56E	45	48N	60	42E	611485	24849	168	9	47	53	ND	ND	ND	ND	ND	ND	ND	ND	2.733	2.733	
175	10	25	44.474	2304	45	12.33N	60	54.28E	45	38N	60	45E	611457	24849	168	12	47	56	ND	ND	ND	ND	ND	ND	ND	ND	2.727	2.727	
176	10	25	46.764	2290	45	3.16N	60	56.98E	45	29N	60	48E	611432	24849	168	14	48	0	ND	ND	ND	ND	ND	ND	ND	ND	2.744	2.744	
177	10	25	49.050	2286	44	54.01N	60	59.66E	45	20N	60	50E	611411	24849	168	17	48	3	ND	ND	ND	ND	ND	ND	ND	ND	2.749	2.749	
178	10	25	51.357	2308	44	44.77N	61	2.35E	45	11N	60	53E	611392	24849	168	20	48	6	ND	ND	ND	ND	ND	ND	ND	ND	2.722	2.722	
179	10	25	53.645	2287	44	35.61N	61	5.00E	45	2N	60	56E	611377	24850	168	23	48	9	ND	ND	ND	ND	ND	ND	ND	ND	2.747	2.747	
180	10	25	55.935	2290	44	26.43N	61	7.63E	44	53N	60	59E	611364	24850	168	25	48	12	ND	ND	ND	ND	ND	ND	ND	ND	2.744	2.744	

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
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CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

MISSION 1889-2

ID 27

LIST DATE 07MAY65 PAGE 111

PASS	5SD	AFT	9AUG64	FRM	Z TIME	DTIM	CAMERA NADR	FORMAT CENTER	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR	MI	SEC	MILS	DEG	LAT	DEG	MIN	DEG	MIN	FEET	F/S	DEG	MIN	DEG	MIN	RATE
181	10	25	58.232	44	17.23N	61	18.25E	44	43N	1E	611355	24850	168	28	48	18
182	10	26	0.520	44	8.06N	61	12.85E	44	34N	4E	611346	24850	168	30	48	18
183	10	26	2.810	43	58.88N	61	15.43E	44	25N	6E	611346	24850	168	33	48	21
184	10	26	5.100	43	49.70N	61	18.00E	44	16N	9E	611346	24850	168	36	48	23
185	10	26	7.390	43	40.52N	61	20.55E	44	7N	12E	611349	24850	168	38	48	26
186	10	26	9.688	43	31.30N	61	23.09E	43	58N	14E	611356	24850	168	41	48	29
187	10	26	11.978	43	22.12N	61	25.61E	43	48N	17E	611365	24850	168	43	48	32
188	10	26	14.268	43	12.93N	61	28.12E	43	39N	19E	611378	24850	168	46	48	35
189	10	26	16.558	43	3.74N	61	30.61E	43	38N	22E	611394	24850	168	48	48	38
190	10	26	18.845	42	54.56N	61	33.08E	43	21N	24E	611413	24850	168	51	48	41
191	10	26	21.135	42	45.37N	61	35.53E	43	12N	27E	611433	24850	168	53	48	43
192	10	26	23.435	42	36.14N	61	37.99E	43	2N	29E	611460	24850	168	56	48	46
193	10	26	25.725	42	26.94N	61	40.42E	42	53N	32E	611488	24849	168	58	48	49
194	10	26	28.015	42	17.75N	61	42.83E	42	44N	34E	611520	24849	169	0	48	51
195	10	26	30.317	42	8.50N	61	45.24E	42	35N	37E	611555	24849	169	3	48	54
196	10	26	32.604	41	59.31N	61	47.62E	42	26N	39E	611592	24849	169	5	48	56
197	10	26	34.895	41	50.11N	61	50.00E	42	16N	42E	611633	24849	169	8	48	59
198	10	26	37.197	41	40.86N	61	52.36E	42	7N	44E	611678	24849	169	10	49	1
199	10	26	39.484	41	31.67N	61	54.70E	41	58N	46E	611726	24849	169	12	49	4
200	10	26	41.774	41	22.46N	61	57.03E	41	49N	49E	611777	24849	169	14	49	7
201	10	26	44.077	41	13.20N	61	59.36E	41	39N	51E	611831	24849	169	17	49	9
202	10	26	46.364	41	4.01N	62	1.66E	41	30N	53E	611887	24849	169	19	49	11
203	10	26	48.667	40	54.75N	62	3.96E	41	21N	56E	611948	24849	169	21	49	14
204	10	26	50.954	40	45.55N	62	6.23E	41	12N	58E	612011	24848	169	24	49	16
205	10	26	53.259	40	36.28N	62	8.51E	41	3N	0E	612078	24848	169	26	49	18
206	10	26	55.545	40	27.08N	62	10.76E	40	53N	3E	612147	24848	169	28	49	21
207	10	26	57.853	40	17.80N	62	13.01E	40	44N	5E	612221	24848	169	30	49	23
208	10	27	0.141	40	8.59N	62	15.23E	40	35N	7E	612297	24848	169	32	49	25
209	10	27	2.439	39	59.34N	62	17.45E	40	26N	10E	612377	24848	169	35	49	28
210	10	27	4.734	39	48.10N	62	19.65E	40	16N	12E	612460	24848	169	37	49	30
211	10	27	7.038	39	40.83N	62	21.85E	40	7N	14E	612546	24847	169	39	49	32
212	10	27	9.339	39	31.56N	62	24.04E	39	58N	16E	612636	24847	169	41	49	34
213	10	27	11.643	39	22.29N	62	26.21E	39	49N	18E	612729	24847	169	43	49	36
214	10	27	13.935	39	13.05N	62	28.36E	39	39N	21E	612824	24847	169	45	49	38
215	10	27	16.237	39	3.78N	62	30.51E	39	30N	23E	612924	24847	169	47	49	40
216	10	27	18.537	38	54.52N	62	32.65E	39	21N	25E	613026	24846	169	49	49	42
217	10	27	20.829	38	45.28N	62	34.76E	39	12N	27E	613132	24846	169	51	49	44
218	10	27	23.135	38	35.99N	62	36.88E	39	2N	29E	613241	24846	169	53	49	46
219	10	27	25.438	38	26.71N	62	38.98E	38	53N	31E	613353	24846	169	55	49	48
220	10	27	27.742	38	17.42N	62	41.07E	38	44N	33E	613469	24845	169	57	49	50
221	10	27	30.030	38	8.20N	62	43.14E	38	35N	36E	613587	24845	169	59	49	52
222	10	27	32.334	37	58.91N	62	45.21E	38	25N	38E	613709	24845	170	1	49	54
223	10	27	34.647	37	49.58N	62	47.28E	38	16N	40E	613835	24845	170	3	49	56
224	10	27	36.952	37	40.29N	62	49.32E	38	7N	42E	613964	24844	170	5	49	58
225	10	27	39.258	37	30.99N	62	51.36E	37	57N	44E	614096	24844	170	7	49	59

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

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TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 55D AFT 9AUG64 FRAME EPHEMERIS MISSION 1009-2 ID 27 LIST DATE 07MAY65 PAGE 112

FRM	Z TIME	HR MI SEC	DTIM	MILS	DEG	LAT	CAMERA NADR	DEG	LONG	DEG	LAT	FORMAT CENTER	LONG	ALTITUDE	VELOC	F/S	DEG	MI	DEG	SUN/	PITCH	ROLL	YAW	SCAN	
226	10	27	41.560	2302	37	27	41.560	62	53.39E	37	48N	62	46E	614232	24844	170	9	50	1	ND	ND	ND	2.720		
227	10	27	43.864	2305	37	12.41N	62	55.40E	37	39N	62	48E	48E	614370	24843	170	11	50	3	ND	ND	ND	2.720		
228	10	27	46.169	2305	37	3.12N	62	57.41E	37	30N	62	50E	50E	614513	24843	170	13	50	4	ND	ND	ND	2.720		
229	10	27	48.487	2318	36	53.76N	62	59.41E	37	20N	62	52E	52E	614659	24843	170	15	50	6	ND	ND	ND	2.711		
230	10	27	50.794	2307	36	44.46N	63	1.40E	37	11N	62	54E	54E	614807	24842	170	17	50	8	ND	ND	ND	2.724		
231	10	27	53.100	2305	36	35.15N	63	3.37E	37	2N	62	56E	56E	614960	24842	170	19	50	9	ND	ND	ND	2.720		
232	10	27	55.417	2318	36	25.00N	63	5.35E	36	52N	62	58E	58E	615116	24842	170	21	50	11	ND	ND	ND	2.719		
233	10	27	57.720	2302	36	16.51N	63	7.30E	36	43N	63	0E	0E	615274	24841	170	23	50	12	ND	ND	ND	2.720		
234	10	28	0.029	2310	36	7.18N	63	9.25E	36	34N	63	2E	2E	615436	24841	170	24	50	14	ND	ND	ND	2.720		
235	10	28	2.345	2315	35	57.83N	63	11.19E	36	24N	63	4E	4E	615602	24841	170	26	50	15	ND	ND	ND	2.720		
236	10	28	4.654	2310	35	48.51N	63	13.12E	36	15N	63	6E	6E	615771	24840	170	28	50	17	ND	ND	ND	2.720		
237	10	28	6.970	2315	35	39.16N	63	15.04E	36	6N	63	8E	8E	615944	24840	170	30	50	18	ND	ND	ND	2.720		
238	10	28	9.292	2323	35	29.78N	63	16.96E	35	56N	63	10E	10E	616120	24839	170	32	50	19	ND	ND	ND	2.719		
239	10	28	11.595	2302	35	20.48N	63	18.85E	35	47N	63	12E	12E	616299	24839	170	33	50	21	ND	ND	ND	2.720		
240	10	28	13.917	2323	35	11.10N	63	20.75E	35	38N	63	14E	14E	616482	24839	170	35	50	22	ND	ND	ND	2.720		
241	10	28	16.237	2320	35	1.73N	63	22.64E	35	28N	63	16E	16E	616669	24838	170	37	50	23	ND	ND	ND	2.720		
242	10	28	18.553	2315	34	52.38N	63	24.51E	35	19N	63	18E	18E	616859	24838	170	39	50	24	ND	ND	ND	2.719		
243	10	28	20.859	2307	34	43.06N	63	26.37E	35	10N	63	19E	19E	617050	24837	170	40	50	26	ND	ND	ND	2.720		
244	10	28	23.163	2323	34	33.67N	63	28.23E	35	0N	63	21E	21E	617247	24837	170	42	50	27	ND	ND	ND	2.720		
245	10	28	25.497	2315	34	24.32N	63	30.08E	34	51N	63	23E	23E	617447	24836	170	44	50	28	ND	ND	ND	2.711		
246	10	28	27.817	2320	34	14.94N	63	31.92E	34	42N	63	25E	25E	617651	24836	170	45	50	29	ND	ND	ND	2.720		
247	10	28	30.136	2318	34	5.57N	63	33.75E	34	32N	63	27E	27E	617857	24836	170	47	50	30	ND	ND	ND	2.719		

HANDLE VIA
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TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

FRM	2 TIME	DTIM	CAMERA	NADR	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 11 32	47.438	0	37 18.47N	118 8.13W	36 35N	118 8.13W	1020158	23925	9 44	-17 35	ND	ND	ND	1.195
2 11 32	52.694	0	37 38.90N	118 3.72W	36 55N	118 16W	1017875	23930	9 48	-17 20	ND	ND	ND	1.195
3 11 32	57.303	4608	37 56.80N	117 59.81W	37 13N	118 12W	1015875	23935	9 52	-17 6	ND	ND	ND	1.364
4 11 33	1.734	4432	38 14.02N	117 56.01W	37 30N	118 9W	1013953	23939	9 56	-16 52	ND	ND	ND	1.418
5 11 33	6.122	4388	38 31.06N	117 52.21W	37 47N	118 5W	1012050	23943	9 59	-16 39	ND	ND	ND	1.432
6 11 33	10.459	4337	38 47.91N	117 48.41W	38 4N	118 1W	1010171	23947	10 3	-16 26	ND	ND	ND	1.449
7 11 33	14.794	4335	39 4.75N	117 44.58W	38 21N	117 57W	1008293	23951	10 7	-16 13	ND	ND	ND	1.449
8 11 33	19.095	4300	39 21.45N	117 40.73W	38 38N	117 54W	1006431	23955	10 11	-16 0	ND	ND	ND	1.461
9 11 33	23.389	4294	39 38.12N	117 36.86W	38 55N	117 50W	1004573	23959	10 15	-15 47	ND	ND	ND	1.463
10 11 33	27.657	4269	39 54.70N	117 32.96W	39 12N	117 46W	1002727	23963	10 19	-15 34	ND	ND	ND	1.472
11 11 33	31.917	4260	40 11.24N	117 29.04W	39 28N	117 42W	1000886	23967	10 22	-15 21	ND	ND	ND	1.475
12 11 33	36.157	4240	40 27.70N	117 25.08W	39 45N	117 38W	999054	23971	10 26	-15 8	ND	ND	ND	1.482

PASS 56A AFT 9AUG64
FRAME EPHMERIS MISSION 1009-2 ID 27 LIST DATE 07MAY65 PAGE 113

HANDLE VIA
TALENT-KEYHOLE
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TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500003-1

PASS	56D AFT	9AUG64	CAMERA NADR		FRAME CENTER		MISSION		1809-2	ID 27	LIST DATE 07MAY65			PAGE 114
FRM	Z TIME	DTIM	LAT	LONG	DEG MIN	DEG MIN	ALTITUDE FEET	VELOC F/S	DEG MI	SUN/	PITCH	ROLL	YAW	SCAN RATE
HR	MI	SEC	MIN	MIN	MIN	MIN	FEET	F/S	DEG MI	DEG MI	MIN	MIN	MIN	RATE
1	11	52	0	2	22	23	6332	2479	159	39	39	39	ND	2.188
2	11	52	0	2	22	23	6327	2479	159	39	39	39	ND	2.188
3	11	52	0	2	22	23	6324	2479	159	39	39	39	ND	2.412
4	11	52	0	2	22	23	6323	2479	159	39	39	39	ND	2.534
5	11	52	0	2	22	23	6316	2480	160	11	40	3	ND	2.586
6	11	52	0	2	22	23	6313	2480	160	19	40	9	ND	2.615
7	11	52	0	2	22	23	6309	2480	160	26	40	14	ND	2.638
8	11	52	0	2	22	23	6305	2480	160	33	40	20	ND	2.637
9	11	52	0	2	22	23	6303	2480	160	39	40	25	ND	2.666
10	11	52	0	2	22	23	6297	2480	160	46	40	31	ND	2.653
11	11	52	0	2	22	23	6296	2480	160	53	40	36	ND	2.657
12	11	52	0	2	22	23	6293	2480	160	59	40	42	ND	2.668
13	11	52	0	2	22	23	6289	2480	161	6	40	47	ND	2.674
14	11	52	0	2	22	23	6286	2480	161	12	40	52	ND	2.674
15	11	52	0	2	22	23	6283	2480	161	19	40	58	ND	2.674
16	11	52	0	2	22	23	6280	2480	161	25	41	3	ND	2.689
17	11	52	0	2	22	23	6277	2480	161	31	41	8	ND	2.669
18	11	52	0	2	22	23	6274	2481	161	38	41	13	ND	2.698
19	11	52	0	2	22	23	6271	2481	161	44	41	19	ND	2.676
20	11	52	0	2	22	23	6268	2481	161	50	41	24	ND	2.684
21	11	52	0	2	22	23	6265	2481	161	56	41	29	ND	2.698
22	11	52	0	2	22	23	6262	2481	162	2	41	34	ND	2.687
23	11	52	0	2	22	23	6259	2481	162	8	41	40	ND	2.691
24	11	52	0	2	22	23	6256	2481	162	13	41	45	ND	2.694
25	11	52	0	2	22	23	6253	2481	162	19	41	50	ND	2.691
26	11	52	0	2	22	23	6250	2481	162	25	41	55	ND	2.691
27	11	52	0	2	22	23	6247	2481	162	30	42	0	ND	2.687
28	11	52	0	2	22	23	6244	2481	162	36	42	5	ND	2.711
29	11	52	0	2	22	23	6241	2481	162	42	42	10	ND	2.689
30	11	52	0	2	22	23	6238	2481	162	47	42	15	ND	2.697
31	11	52	0	2	22	23	6235	2481	162	53	42	20	ND	2.702
32	11	52	0	2	22	23	6232	2481	162	58	42	25	ND	2.702
33	11	52	0	2	22	23	6229	2481	163	3	42	30	ND	2.712
34	11	52	0	2	22	23	6226	2481	163	8	42	35	ND	2.708
35	11	52	0	2	22	23	6223	2481	163	14	42	40	ND	2.702
36	11	52	0	2	22	23	6220	2481	163	19	42	45	ND	2.708
37	11	52	0	2	22	23	6217	2481	163	24	42	50	ND	2.693
38	11	52	0	2	22	23	6214	2481	163	29	42	55	ND	2.693
39	11	52	0	2	22	23	6211	2481	163	34	43	0	ND	2.708
40	11	52	0	2	22	23	6208	2482	163	39	43	5	ND	2.708
41	11	52	0	2	22	23	6205	2482	163	44	43	9	ND	2.724
42	11	52	0	2	22	23	6202	2482	163	49	43	14	ND	2.708
43	11	52	0	2	22	23	6199	2482	163	54	43	19	ND	2.708
44	11	52	0	2	22	23	6196	2482	163	59	43	24	ND	2.709
45	11	52	0	2	22	23	6193	2482	164	3	43	28	ND	2.709

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HANDLE VIA

HANDLE VIA
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TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 560 AFT 9AU664

FRAME EPHEMERIS MISSION 1889-2

ID 27

LIST DATE 87MAY65

PAGE 115

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	LAT	LONG	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
46	11	53	49.286	2315	55	30.31N	34	7.65E	55	21.26N	34	12.16E	55	2.714
47	11	53	51.514	2307	55	21.26N	34	12.16E	55	21.26N	34	12.16E	55	2.724
48	11	53	53.836	2323	55	12.01N	34	16.67E	55	38N	34	2E	55	2.705
49	11	53	56.151	2315	55	3.05N	34	21.12E	55	29N	34	7E	55	2.714
50	11	53	58.461	2310	54	53.98N	34	25.52E	55	20N	34	11E	55	2.720
51	11	54	0.764	2302	54	44.92N	34	29.87E	55	11N	34	16E	55	2.729
52	11	54	3.081	2318	54	35.81N	34	34.22E	55	2N	34	20E	55	2.711
53	11	54	5.387	2305	54	26.74N	34	38.50E	54	50N	34	25E	54	2.726
54	11	54	7.688	2302	54	17.68N	34	42.75E	54	44N	34	29E	54	2.729
55	11	54	10.007	2310	54	8.56N	34	46.98E	54	35N	34	33E	54	2.711
56	11	54	12.316	2310	53	59.46N	34	51.17E	54	26N	34	38E	54	2.720
57	11	54	14.621	2305	53	50.38N	34	55.32E	54	16N	34	42E	54	2.726
58	11	54	16.924	2302	53	41.31N	34	59.42E	54	7N	34	46E	54	2.729
59	11	54	19.229	2305	53	32.22N	35	3.50E	53	58N	34	50E	53	2.726
60	11	54	21.546	2318	53	23.08N	35	7.56E	53	49N	34	54E	53	2.711
61	11	54	23.852	2305	53	13.98N	35	11.58E	53	40N	34	58E	53	2.726
62	11	54	26.151	2300	53	4.90N	35	15.45E	53	31N	35	3E	53	2.732
63	11	54	28.456	2305	52	55.80N	35	19.49E	53	22N	35	7E	53	2.726
64	11	54	30.759	2302	52	46.71N	35	23.44E	53	13N	35	11E	53	2.729
65	11	54	33.063	2305	52	37.60N	35	27.29E	53	4N	35	15E	53	2.726
66	11	54	35.371	2308	52	28.48N	35	31.15E	52	55N	35	19E	52	2.722
67	11	54	37.677	2305	52	19.36N	35	34.98E	52	45N	35	22E	52	2.726
68	11	54	39.977	2300	52	10.27N	35	38.76E	52	36N	35	26E	52	2.732
69	11	54	42.281	2305	52	1.15N	35	42.52E	52	27N	35	30E	52	2.726
70	11	54	44.573	2292	51	52.08N	35	46.24E	52	18N	35	34E	51	2.741
71	11	54	46.887	2313	51	42.92N	35	49.96E	52	9N	35	38E	51	2.716
72	11	54	49.179	2292	51	33.84N	35	53.62E	52	0N	35	42E	51	2.741
73	11	54	51.479	2300	51	24.73N	35	57.26E	51	51N	35	45E	51	2.732
74	11	54	53.773	2295	51	15.63N	36	0.86E	51	42N	35	49E	51	2.738
75	11	54	56.073	2300	51	6.52N	36	4.45E	51	33N	35	53E	51	2.732
76	11	54	58.377	2304	50	57.38N	36	8.01E	51	23N	35	56E	50	2.727
77	11	55	0.682	2304	50	48.24N	36	11.55E	51	14N	36	0E	50	2.727
78	11	55	2.974	2292	50	39.15N	36	15.05E	51	5N	36	3E	50	2.741
79	11	55	5.273	2300	50	30.02N	36	18.55E	50	56N	36	7E	50	2.732
80	11	55	7.581	2308	50	20.86N	36	21.99E	50	47N	36	11E	50	2.722
81	11	55	9.882	2300	50	11.72N	36	25.42E	50	38N	36	14E	50	2.732
82	11	55	12.168	2287	50	2.64N	36	28.00E	50	29N	36	17E	50	2.747
83	11	55	14.477	2300	49	53.47N	36	32.19E	50	20N	36	21E	49	2.722
84	11	55	16.764	2287	49	44.38N	36	35.53E	50	10N	36	24E	49	2.747
85	11	55	19.063	2299	49	35.24N	36	38.85E	50	1N	36	28E	49	2.733
86	11	55	21.353	2290	49	26.13N	36	42.14E	49	52N	36	31E	49	2.744
87	11	55	23.654	2302	49	16.98N	36	45.43E	49	43N	36	34E	49	2.729
88	11	55	25.942	2388	49	7.87N	36	48.67E	49	34N	36	38E	49	2.746
89	11	55	28.247	2305	48	58.70N	36	51.91E	49	25N	36	41E	49	2.726
90	11	55	30.538	2291	48	49.58N	36	55.11E	49	16N	36	44E	49	2.743

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 04818-65

PASS 56D AFT 9AUG64

FRAME EPHEMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65 PAGE 116

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	DEG MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
91	11 55 32.842	2290	48 40.41N	36 58.30E	49 7N	36 48E	612841	24846	167 4	46 44	ND	ND	ND	2.728
92	11 55 35.134	2292	48 31.28N	37 1.45E	48 57N	36 51E	612751	24846	167 7	46 47	ND	ND	ND	2.741
93	11 55 37.437	2303	48 22.11N	37 4.60E	48 48N	36 50E	612663	24846	167 10	46 51	ND	ND	ND	2.728
94	11 55 39.725	2288	48 12.99N	37 7.70E	48 39N	36 57E	612579	24846	167 14	46 55	ND	ND	ND	2.746
95	11 55 42.023	2299	48 3.83N	37 10.80E	48 30N	37 0E	612498	24846	167 17	46 58	ND	ND	ND	2.733
96	11 55 44.327	2304	47 54.64N	37 13.88E	48 21N	37 4E	612420	24847	167 20	47 2	ND	ND	ND	2.727
97	11 55 46.617	2290	47 45.51N	37 16.92E	48 12N	37 7E	612345	24847	167 23	47 5	ND	ND	ND	2.744
98	11 55 48.919	2302	47 36.33N	37 19.96E	48 2N	37 10E	612273	24847	167 26	47 9	ND	ND	ND	2.729
99	11 55 51.208	2289	47 27.20N	37 22.96E	47 53N	37 13E	612204	24847	167 29	47 12	ND	ND	ND	2.745
0100	11 55 53.512	2303	47 18.00N	37 25.96E	47 44N	37 16E	612138	24847	167 32	47 16	ND	ND	ND	2.728
0101	11 55 55.799	2287	47 8.88N	37 28.91E	47 35N	37 19E	612075	24847	167 35	47 20	ND	ND	ND	2.747
0102	11 55 58.094	2295	46 59.71N	37 31.86E	47 26N	37 22E	612016	24848	167 38	47 23	ND	ND	ND	2.738
0103	11 56 0.396	2303	46 50.52N	37 34.79E	47 17N	37 25E	611959	24848	167 41	47 26	ND	ND	ND	2.728
0104	11 56 2.680	2283	46 41.40N	37 37.68E	47 8N	37 28E	611906	24848	167 44	47 30	ND	ND	ND	2.752
0105	11 56 4.987	2308	46 32.18N	37 40.59E	46 58N	37 31E	611855	24848	167 47	47 33	ND	ND	ND	2.722
0106	11 56 7.273	2286	46 23.04N	37 43.40E	46 49N	37 34E	611807	24848	167 50	47 37	ND	ND	ND	2.749
0107	11 56 9.576	2303	46 13.84N	37 46.30E	46 40N	37 37E	611763	24848	167 53	47 40	ND	ND	ND	2.728
0108	11 56 11.863	2287	46 4.70N	37 49.12E	46 31N	37 39E	611722	24848	167 56	47 43	ND	ND	ND	2.747
0109	11 56 14.153	2290	45 55.54N	37 51.92E	46 22N	37 42E	611684	24849	167 59	47 47	ND	ND	ND	2.744
0110	11 56 16.443	2290	45 46.38N	37 54.71E	46 13N	37 45E	611648	24849	168 1	47 50	ND	ND	ND	2.744
0111	11 56 18.742	2299	45 37.19N	37 57.49E	46 3N	37 48E	611616	24849	168 4	47 53	ND	ND	ND	2.733
0112	11 56 21.036	2294	45 28.01N	38 0.24E	45 54N	37 51E	611587	24849	168 7	47 56	ND	ND	ND	2.739
0113	11 56 23.318	2282	45 18.88N	38 2.96E	45 45N	37 54E	611562	24849	168 10	48 0	ND	ND	ND	2.753
0114	11 56 25.608	2290	45 9.71N	38 5.68E	45 36N	37 56E	611538	24849	168 12	48 3	ND	ND	ND	2.744
0115	11 56 27.916	2308	45 0.48N	38 8.39E	45 27N	37 59E	611519	24849	168 15	48 6	ND	ND	ND	2.722
0116	11 56 30.198	2282	44 51.34N	38 11.06E	45 18N	38 2E	611503	24849	168 18	48 9	ND	ND	ND	2.753
0117	11 56 32.491	2293	44 42.16N	38 13.73E	45 8N	38 5E	611489	24849	168 21	48 12	ND	ND	ND	2.740
0118	11 56 34.781	2290	44 32.98N	38 16.37E	44 59N	38 7E	611479	24849	168 23	48 15	ND	ND	ND	2.744
0119	11 56 37.068	2287	44 23.82N	38 19.00E	44 50N	38 10E	611471	24849	168 26	48 18	ND	ND	ND	2.747
0120	11 56 39.354	2286	44 14.66N	38 21.60E	44 41N	38 13E	611467	24849	168 29	48 21	ND	ND	ND	2.749
0121	11 56 41.644	2289	44 5.49N	38 24.20E	44 32N	38 15E	611466	24849	168 31	48 24	ND	ND	ND	2.745
0122	11 56 43.934	2290	43 56.51N	38 26.77E	44 23N	38 18E	611473	24849	168 34	48 27	ND	ND	ND	2.744
0123	11 56 46.231	2298	43 47.09N	38 29.35E	44 13N	38 20E	611478	24849	168 36	48 30	ND	ND	ND	2.734
124	11 56 48.521	2290	43 37.91N	38 31.89E	44 4N	38 23E	611482	24849	168 39	48 33	ND	ND	ND	2.744
125	11 56 50.808	2286	43 28.74N	38 34.42E	43 55N	38 26E	611493	24849	168 41	48 36	ND	ND	ND	2.749
126	11 56 53.102	2294	43 19.54N	38 36.94E	43 46N	38 28E	611508	24849	168 44	48 39	ND	ND	ND	2.739
127	11 56 55.384	2282	43 10.39N	38 39.43E	43 37N	38 31E	611525	24849	168 46	48 41	ND	ND	ND	2.753
128	11 56 57.670	2287	43 1.21N	38 41.91E	43 27N	38 33E	611546	24849	168 49	48 44	ND	ND	ND	2.747

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HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 61D AFT 9AUG64

FRAME: EPHEMERIS MISSION 1889-2

10 27

LIST DATE 07MAY65 PAGE 117

FRM	Z TIME	DTIM	CAMERA	NADIR	FORMAT	CENTER	ALTITUDE	VELOC	AZIMUTH	SUNV	PITCH	ROLL	YAW	SCAN
HR MI	SEC	MILS	DEG MIN	DEG LONG	DEG LAT	DEG MIN	DEG MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	RATE
1	19 30	27.297	42 28.24N	75 15.96W	42 55N	75 25W	612545	24846	168 58	49 23	ND	ND	ND	1.930
2	19 30	30.554	42 15.16N	75 12.53W	42 41N	75 21W	612626	24846	169 1	49 27	ND	ND	ND	1.938
3	19 30	33.207	42 4.50N	75 9.75W	42 31N	75 18W	612696	24846	169 4	49 30	ND	ND	ND	2.367
4	19 30	35.688	41 54.54N	75 7.18W	42 21N	75 16W	612766	24846	169 6	49 33	ND	ND	ND	2.534
5	19 30	38.107	41 44.82N	75 4.68W	42 11N	75 13W	612838	24846	169 9	49 36	ND	ND	ND	2.596
6	19 30	40.492	41 35.24N	75 2.23W	42 2N	75 11W	612912	24846	169 11	49 39	ND	ND	ND	2.634
7	19 30	42.867	41 25.69N	74 59.81W	41 52N	75 8W	612989	24846	169 14	49 42	ND	ND	ND	2.646
8	19 30	45.228	41 16.21N	74 57.42W	41 43N	75 6W	613069	24845	169 16	49 44	ND	ND	ND	2.662
9	19 30	47.582	41 6.74N	74 55.05W	41 33N	75 3W	613151	24845	169 18	49 47	ND	ND	ND	2.668
10	19 30	49.928	40 57.31N	74 52.71W	41 24N	75 1W	613238	24845	169 21	49 50	ND	ND	ND	2.679
11	19 30	52.277	40 47.86N	74 50.37W	41 14N	74 59W	613328	24845	169 23	49 52	ND	ND	ND	2.674
12	19 30	54.622	40 38.43N	74 48.05W	41 5N	74 56W	613421	24845	169 25	49 55	ND	ND	ND	2.679
13	19 30	56.962	40 29.02N	74 45.75W	40 55N	74 54W	613517	24844	169 28	49 58	ND	ND	ND	2.685
14	19 30	59.303	40 19.60N	74 43.46W	40 46N	74 52W	613616	24844	169 30	50 0	ND	ND	ND	2.685
15	19 31	1.643	40 10.19N	74 41.19W	40 37N	74 49W	613719	24844	169 32	50 2	ND	ND	ND	2.685
16	19 31	3.982	40 0.77N	74 38.93W	40 27N	74 47W	613825	24844	169 34	50 5	ND	ND	ND	2.685
17	19 31	6.322	39 51.36N	74 36.68W	40 18N	74 45W	613934	24844	169 36	50 7	ND	ND	ND	2.685
18	19 31	8.657	39 41.96N	74 34.45W	40 8N	74 42W	614046	24843	169 39	50 10	ND	ND	ND	2.685
19	19 31	10.998	39 32.54N	74 32.23W	39 59N	74 40W	614162	24843	169 41	50 12	ND	ND	ND	2.691
20	19 31	13.337	39 23.12N	74 30.02W	39 50N	74 38W	614282	24843	169 43	50 14	ND	ND	ND	2.684
21	19 31	15.672	39 13.72N	74 27.83W	39 40N	74 36W	614404	24842	169 45	50 17	ND	ND	ND	2.691
22	19 31	18.007	39 4.31N	74 25.65W	39 31N	74 33W	614530	24842	169 47	50 19	ND	ND	ND	2.691
23	19 31	20.348	38 54.89N	74 23.47W	39 21N	74 31W	614659	24842	169 49	50 21	ND	ND	ND	2.685
24	19 31	22.688	38 45.46N	74 21.31W	39 12N	74 29W	614791	24842	169 51	50 23	ND	ND	ND	2.685
25	19 31	25.023	38 36.05N	74 19.17W	39 3N	74 27W	614927	24841	169 53	50 25	ND	ND	ND	2.690
26	19 31	27.357	38 26.65N	74 17.04W	38 53N	74 25W	615066	24841	169 56	50 27	ND	ND	ND	2.692
27	19 31	29.697	38 17.22N	74 14.91W	38 44N	74 23W	615209	24841	169 58	50 30	ND	ND	ND	2.685
28	19 31	32.037	38 7.79N	74 12.80W	38 34N	74 20W	615355	24840	170 0	50 31	ND	ND	ND	2.685
29	19 31	34.377	37 58.36N	74 10.70W	38 25N	74 18W	615505	24840	170 2	50 34	ND	ND	ND	2.685
30	19 31	36.713	37 48.94N	74 8.62W	38 15N	74 16W	615658	24840	170 4	50 36	ND	ND	ND	2.690
31	19 31	39.058	37 39.49N	74 6.53W	38 6N	74 14W	615813	24839	170 6	50 37	ND	ND	ND	2.681
32	19 31	41.393	37 30.07N	74 4.47W	37 57N	74 12W	615973	24839	170 8	50 39	ND	ND	ND	2.681
33	19 31	43.732	37 20.64N	74 2.41W	37 47N	74 10W	616136	24839	170 10	50 41	ND	ND	ND	2.691
34	19 31	46.077	37 11.18N	74 0.37W	37 38N	74 8W	616303	24838	170 12	50 43	ND	ND	ND	2.679
35	19 31	48.417	37 1.74N	73 58.33W	37 28N	74 6W	616472	24838	170 13	50 45	ND	ND	ND	2.685
36	19 31	50.757	36 52.31N	73 56.31W	37 19N	74 4W	616645	24838	170 15	50 47	ND	ND	ND	2.685
37	19 31	53.098	36 42.86N	73 54.30W	37 9N	74 2W	616821	24837	170 17	50 49	ND	ND	ND	2.685
38	19 31	55.438	36 33.42N	73 52.29W	37 0N	74 0W	617002	24837	170 19	50 50	ND	ND	ND	2.685
39	19 31	57.782	36 23.96N	73 50.30W	36 51N	73 58W	617185	24836	170 21	50 52	ND	ND	ND	2.681
40	19 32	0.123	36 14.51N	73 48.32W	36 41N	73 56W	617371	24836	170 23	50 54	ND	ND	ND	2.684
41	19 32	2.469	36 5.05N	73 46.34W	36 32N	73 54W	617562	24835	170 25	50 55	ND	ND	ND	2.679
42	19 32	4.817	35 55.57N	73 44.38W	36 22N	73 52W	617756	24835	170 27	50 57	ND	ND	ND	2.675
43	19 32	7.162	35 46.10N	73 42.42W	36 13N	73 50W	617954	24835	170 28	50 59	ND	ND	ND	2.679
44	19 32	9.503	35 36.65N	73 40.48W	36 3N	73 48W	618154	24834	170 30	51 0	ND	ND	ND	2.684
45	19 32	11.849	35 27.18N	73 38.55W	35 54N	73 46W	618358	24834	170 32	51 2	ND	ND	ND	2.679

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 61D AFT 9AUG64

FRAME EPHMERIS MISSION 1809-2

ID 27

LIST DATE 07MAY65 PAGE 118

FRM	2 TIME	DTIM	CAMERA MDIR		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								
46	19	32	14.245	2397	35	17.51N	73	36.58W	35	44N	73	44W	618570	24833	170	34	51	3	ND	ND	ND	2.621
47	19	32	16.547	2302	35	8.21N	73	34.78W	35	35N	73	42W	618777	24833	170	36	51	5	ND	ND	ND	2.729
48	19	32	18.893	2345	34	58.74N	73	32.80W	35	25N	73	40W	618991	24832	170	37	51	6	ND	ND	ND	2.679

TOP SECRET

HANDLE VIA

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

FRAME EPHemerIS

MISSION 1809-2

ID 27

LIST DATE 07MAY65

PAGE 119

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	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	RATE
1	1 38	29.908	0	20	44.87N	162	28.67W	655484	24749	172	34	51	23	1.825
2	1 38	33.351	3442	20	30.11N	162	26.74W	656282	24747	172	35	51	21	2.193
3	1 38	36.216	2865	20	18.50N	162	25.14W	656871	24745	172	37	51	19	2.323
4	1 38	38.921	2705	20	7.53N	162	23.64W	657508	24744	172	38	51	17	2.379
5	1 38	41.562	2641	19	56.83N	162	22.17W	658134	24742	172	39	51	15	2.399
6	1 38	44.181	2619	19	46.21N	162	20.73W	658759	24741	172	39	51	13	2.407
7	1 38	46.790	2610	19	35.64N	162	19.29W	659386	24739	172	40	51	12	2.421
8	1 38	49.386	2595	19	25.11N	162	17.86W	660013	24738	172	41	51	9	2.417
9	1 38	51.985	2600	19	14.58N	162	16.44W	660646	24737	172	42	51	8	2.417
10	1 38	54.586	2600	18	4.03N	162	15.02W	661283	24735	172	43	51	5	2.417
11	1 38	57.186	2600	18	53.50N	162	13.61W	661924	24734	172	44	51	3	2.417
12	1 38	59.785	2600	18	42.96N	162	12.20W	662570	24732	172	45	51	1	2.417
13	1 39	2.386	2600	18	32.42N	162	10.79W	663219	24731	172	46	50	59	2.417

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA TALENT-KEYHOLE CONTROL ONLY

TOP SECRET SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 690 AFT 10AUG64

FRAME EPHEMERIS MISSION 1889-2

ID 27

LIST DATE 07MAY65 PAGE 128

FRM	HR MI	SEC	DTM	DEG MIN	DEG MIN	DEG MIN	DEG MIN	ALTITUDE	VELOC	DEG MI	DEG MI	PITCH	ROLL	YAW	SCAN
	2 TIME			LAT	LONG	LAT	LONG	FEET	F/S	MI	MI	MIN	MIN	MIN	RATE
1	7 27	10.955	0	74 54.44N	73 2.88E	75 16N	71 48E	665827	24719	139	10	ND	ND	ND	1.921
2	7 27	14.226	0	74 44.37N	73 35.74E	75 7N	72 23E	665106	24728	139	44	ND	ND	ND	1.921
3	7 27	16.982	2755	74 35.83N	74 2.88E	74 58N	72 51E	664501	24722	140	11	ND	ND	ND	2.281
4	7 27	19.592	2611	74 27.68N	74 28.15E	74 50N	73 18E	663931	24723	140	37	ND	ND	ND	2.486
5	7 27	22.141	2549	74 19.67N	74 52.39E	74 42N	73 43E	663378	24726	141	1	ND	ND	ND	2.508
6	7 27	24.660	2528	74 11.72N	75 15.94E	74 34N	74 8E	662833	24726	141	25	ND	ND	ND	2.493
7	7 27	27.165	2505	74 3.76N	75 38.98E	74 27N	74 32E	662294	24727	141	49	ND	ND	ND	2.528
8	7 27	29.650	2485	73 55.82N	76 1.45E	74 19N	75 19E	661762	24728	142	11	ND	ND	ND	2.534
9	7 27	32.131	2488	73 47.86N	76 23.52E	74 11N	75 19E	661233	24729	142	34	ND	ND	ND	2.534
10	7 27	34.618	2488	73 39.87N	77 6.44E	74 3N	75 42E	660707	24731	142	56	ND	ND	ND	2.549
11	7 27	37.075	2465	73 31.88N	77 27.28E	73 55N	76 4E	660186	24732	143	17	ND	ND	ND	2.554
12	7 27	39.535	2465	73 23.87N	77 47.80E	73 47N	76 48E	659155	24733	143	38	ND	ND	ND	2.554
13	7 27	41.995	2460	73 15.82N	78 7.98E	73 39N	77 9E	658643	24735	143	59	ND	ND	ND	2.554
14	7 27	44.455	2460	73 7.73N	78 27.77E	73 31N	77 29E	658136	24737	144	40	ND	ND	ND	2.554
15	7 27	46.905	2450	72 59.65N	78 27.77E	73 23N	77 50E	657631	24738	145	0	ND	ND	ND	2.570
16	7 27	49.351	2445	72 51.55N	79 6.34E	73 15N	78 10E	657130	24739	145	19	ND	ND	ND	2.570
17	7 27	51.796	2445	72 43.41N	79 25.16E	72 7N	78 30E	656631	24740	145	38	ND	ND	ND	2.570
18	7 27	54.240	2445	72 35.24N	79 43.67E	72 51N	78 49E	656135	24741	145	57	ND	ND	ND	2.575
19	7 27	56.681	2440	72 27.06N	80 1.86E	72 43N	79 8E	655643	24742	146	16	ND	ND	ND	2.579
20	7 27	59.116	2436	72 18.86N	80 19.76E	72 35N	79 27E	655153	24744	146	34	ND	ND	ND	2.581
21	7 28	1.551	2434	72 10.64N	80 37.38E	72 26N	79 45E	654667	24745	146	52	ND	ND	ND	2.588
22	7 28	3.985	2435	72 2.39N	80 54.71E	72 18N	80 3E	654183	24746	147	9	ND	ND	ND	2.586
23	7 28	6.415	2430	71 54.12N	81 11.75E	72 10N	80 21E	653702	24747	147	27	ND	ND	ND	2.590
24	7 28	8.842	2426	71 45.84N	81 28.52E	72 2N	80 39E	653225	24748	147	44	ND	ND	ND	2.592
25	7 28	11.266	2424	71 37.54N	81 45.81E	71 53N	80 56E	652751	24749	148	1	ND	ND	ND	2.596
26	7 28	13.686	2420	71 29.23N	82 1.29E	71 45N	81 13E	652279	24750	148	17	ND	ND	ND	2.591
27	7 28	16.110	2425	71 20.87N	82 17.26E	71 37N	81 30E	651818	24751	148	33	ND	ND	ND	2.602
28	7 28	18.525	2415	71 12.52N	82 33.80E	71 29N	81 46E	651344	24753	148	49	ND	ND	ND	2.602
29	7 28	20.948	2415	70 55.76N	83 48.51E	71 20N	82 2E	650881	24754	149	5	ND	ND	ND	2.611
30	7 28	23.355	2415	70 47.34N	83 3.79E	71 12N	82 18E	650420	24755	149	21	ND	ND	ND	2.602
31	7 28	25.771	2415	70 38.93N	83 18.80E	71 3N	82 34E	649964	24756	149	36	ND	ND	ND	2.611
32	7 28	28.177	2406	70 30.49N	83 33.50E	70 55N	82 49E	649509	24757	149	51	ND	ND	ND	2.608
33	7 28	30.585	2409	70 22.04N	83 48.18E	70 47N	83 5E	649058	24758	150	6	ND	ND	ND	2.613
34	7 28	32.990	2405	70 13.56N	84 2.55E	70 38N	83 20E	648609	24759	150	21	ND	ND	ND	2.613
35	7 28	35.396	2405	70 5.09N	84 16.08E	70 30N	83 34E	648164	24760	150	35	ND	ND	ND	2.618
36	7 28	37.796	2400	70 56.59N	84 30.61E	70 21N	83 49E	647721	24761	150	49	ND	ND	ND	2.618
37	7 28	40.195	2400	69 48.09N	84 44.33E	70 13N	84 3E	647282	24762	151	17	ND	ND	ND	2.623
38	7 28	42.591	2395	69 39.60N	84 57.82E	70 4N	84 17E	646842	24763	151	31	ND	ND	ND	2.629
39	7 28	44.988	2390	69 31.08N	85 11.12E	69 56N	84 31E	646414	24764	151	45	ND	ND	ND	2.629
40	7 28	47.370	2390	69 22.57N	85 24.28E	69 47N	84 45E	645980	24765	151	44	ND	ND	ND	2.629
41	7 28	49.766	2395	69 13.92N	85 37.22E	69 39N	84 58E	645552	24766	151	57	ND	ND	ND	2.629
42	7 28	52.155	2390	69 5.39N	85 49.99E	69 30N	85 12E	645125	24767	152	10	ND	ND	ND	2.634
43	7 28	54.546	2385	68 56.82N	86 2.56E	69 22N	85 25E	644703	24768	152	23	ND	ND	ND	2.634
44	7 28	56.931	2385	68 48.23N	86 14.96E	69 13N	85 38E	644283	24769	152	36	ND	ND	ND	2.634

TOP SECRET

HANDLE VIA TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 690 AFT 18AUG64

FRAME EPHEMERIS MISSION 1089-2

IO 27

LIST DATE 07MAY65 PAGE 121

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	DEG MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
46	7 29	1.700	2385	68 39.62N	86 27.19E	69	643866	24770	152	49	35	24	ND	2.634
47	7 29	4.080	2380	68 31.02N	86 39.23E	68	643452	24771	153	1	35	31	ND	2.640
48	7 29	6.467	2386	68 22.37N	86 51.15E	68	643038	24772	153	13	35	37	ND	2.633
49	7 29	8.846	2379	68 13.74N	87 2.08E	68	642630	24773	153	25	35	44	ND	2.633
50	7 29	11.226	2380	68 5.09N	87 14.45E	68	642223	24774	153	37	35	50	ND	2.641
51	7 29	13.602	2376	67 56.43N	87 25.08E	68	641820	24775	153	49	35	56	ND	2.640
52	7 29	15.977	2375	67 47.77N	87 37.11E	68	641419	24776	154	0	36	3	ND	2.644
53	7 29	18.355	2379	67 39.07N	87 48.20E	68	641021	24777	154	11	36	9	ND	2.646
54	7 29	20.726	2370	67 30.40N	87 59.10E	67	640626	24778	154	23	36	16	ND	2.651
55	7 29	23.096	2370	67 21.71N	88 9.99E	67	640234	24779	154	34	36	22	ND	2.651
56	7 29	25.466	2370	67 13.01N	88 20.66E	67	639845	24780	154	45	36	28	ND	2.651
57	7 29	27.830	2365	67 4.31N	88 31.16E	67	639458	24780	154	55	36	35	ND	2.657
58	7 29	30.200	2370	66 55.58N	88 41.56E	67	639074	24781	155	6	36	41	ND	2.657
59	7 29	32.565	2365	66 46.85N	88 51.81E	67	638693	24782	155	17	36	47	ND	2.651
60	7 29	34.926	2360	66 38.13N	89 1.92E	67	638315	24783	155	27	36	54	ND	2.662
61	7 29	37.285	2360	66 29.41N	89 11.89E	66	637940	24784	155	37	37	0	ND	2.662
62	7 29	39.650	2365	66 20.64N	89 21.77E	66	637566	24785	155	47	37	6	ND	2.667
63	7 29	42.006	2355	66 11.91N	89 31.47E	66	637198	24786	155	57	37	13	ND	2.668
64	7 29	44.361	2356	66 3.16N	89 41.08E	66	636831	24787	156	7	37	19	ND	2.667
65	7 29	46.721	2359	65 54.38N	89 50.58E	66	636466	24787	156	17	37	25	ND	2.663
66	7 29	49.075	2355	65 45.61N	89 59.94E	66	636105	24788	156	27	37	31	ND	2.668
67	7 29	51.426	2350	65 36.84N	90 9.18E	66	635747	24789	156	36	37	37	ND	2.674
68	7 29	53.775	2355	65 28.07N	90 18.30E	65	635392	24790	156	45	37	44	ND	2.674
69	7 29	56.131	2355	65 19.27N	90 27.34E	65	635037	24791	156	55	37	50	ND	2.668
70	7 29	58.485	2355	65 10.45N	90 36.27E	65	634686	24792	157	4	37	56	ND	2.668
71	7 30	0.830	2345	65 1.67N	90 45.05E	65	634339	24792	157	13	38	2	ND	2.679
72	7 30	3.181	2350	64 52.05N	90 53.76E	65	633993	24793	157	22	38	8	ND	2.674
73	7 30	5.530	2350	64 44.02N	91 2.36E	65	633651	24794	157	31	38	14	ND	2.674
74	7 30	7.886	2355	64 35.17N	91 10.89E	65	633311	24795	157	40	38	20	ND	2.668
75	7 30	10.230	2345	64 26.34N	91 19.28E	64	632974	24796	157	48	38	27	ND	2.679
76	7 30	12.575	2345	64 17.51N	91 27.57E	64	632640	24797	157	57	38	33	ND	2.679
77	7 30	14.921	2345	64 8.66N	91 35.77E	64	632309	24797	158	5	38	39	ND	2.679
78	7 30	17.266	2345	63 59.81N	91 43.88E	64	631980	24798	158	13	38	45	ND	2.679
79	7 30	19.610	2345	63 50.94N	91 51.89E	64	631654	24799	158	22	38	51	ND	2.679
80	7 31	33.921	74310	59 6.13N	95 26.09E	59	622713	24820	162	3	41	54	ND	0.085
81	7 31	37.104	3184	58 53.78N	95 33.81E	59	622392	24821	162	11	42	2	ND	1.973
82	7 31	39.735	2631	58 43.57N	95 40.12E	59	622130	24822	162	17	42	8	ND	2.388
83	7 31	42.195	2460	58 34.02N	95 45.95E	59	621889	24822	162	23	42	14	ND	2.554
84	7 31	44.596	2400	58 24.69N	95 51.59E	58	621656	24823	162	29	42	19	ND	2.618
85	7 31	46.971	2375	58 15.46N	95 57.11E	58	621429	24823	162	35	42	25	ND	2.646
86	7 31	49.335	2355	58 6.30N	96 2.54E	58	621207	24824	162	40	42	30	ND	2.668
87	7 31	51.671	2345	57 57.17N	96 7.89E	58	620988	24824	162	46	42	36	ND	2.679
88	7 31	54.006	2335	57 48.08N	96 13.17E	58	620773	24825	162	51	42	41	ND	2.691
89	7 31	56.341	2335	57 38.98N	96 18.40E	58	620561	24825	162	57	42	47	ND	2.691
90	7 31	58.676	2335	57 29.88N	96 23.58E	57	620352	24826	163	2	42	52	ND	2.691

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 690 AFT 10AUG64 FRAME EPHMERIS MISSION 1889-2 ID 27 LIST DATE 07MAY65 PAGE 122

FRM	2 TIME			DTIM	CAMERA NADIR			FORMAT CENTER			ALTITUDE VELOC			AZIMUTH SUN/			PITCH		ROLL		YAW		SCAN
	HR	MI	SEC		MILS	DEG	LAT	MIN	LONG	DEG	LAT	MIN	LONG	FEET	F/S	DEG	MI	DEG	MI	DEG	MIN	DEG	
91	7	32	1.000	2325	57	28.81N	96	28.69E	57	47N	96	13E	620146	24826	163	8	42	57	ND	ND	ND	2.702	
92	7	32	3.325	2325	57	11.74N	96	33.76E	57	38N	96	18E	619944	24827	163	13	43	3	ND	ND	ND	2.702	
93	7	32	5.650	2325	57	2.66N	96	38.78E	57	29N	96	23E	619744	24827	163	18	43	8	ND	ND	ND	2.702	
94	7	32	7.976	2325	56	53.58N	96	43.76E	57	20N	96	28E	619544	24828	163	23	43	13	ND	ND	ND	2.702	
95	7	32	10.296	2320	56	44.51N	96	48.68E	57	18N	96	33E	619353	24828	163	28	43	18	ND	ND	ND	2.708	
96	7	32	12.610	2315	56	35.46N	96	53.54E	57	1N	96	38E	619162	24829	163	33	43	24	ND	ND	ND	2.714	
97	7	32	14.931	2310	56	26.38N	96	58.38E	56	52N	96	43E	618975	24829	163	38	43	29	ND	ND	ND	2.708	
98	7	32	17.250	2320	56	17.31N	97	3.16E	56	43N	96	48E	618789	24830	163	43	43	34	ND	ND	ND	2.708	
99	7	32	19.565	2315	56	8.24N	97	7.90E	56	34N	96	53E	618607	24830	163	48	43	39	ND	ND	ND	2.714	
0000	7	32	21.886	2320	55	59.15N	97	12.61E	56	25N	96	58E	618428	24830	163	53	43	44	ND	ND	ND	2.708	
0101	7	32	24.195	2310	55	50.10N	97	17.26E	56	16N	97	2E	618251	24831	163	58	43	49	ND	ND	ND	2.720	
0202	7	32	26.511	2315	55	41.02N	97	21.87E	56	7N	97	7E	618077	24831	164	3	43	55	ND	ND	ND	2.714	
0303	7	32	28.821	2311	55	31.96N	97	26.44E	55	58N	97	12E	617907	24832	164	7	44	0	ND	ND	ND	2.719	
0404	7	32	31.136	2311	55	22.88N	97	30.97E	55	49N	97	16E	617739	24832	164	12	44	5	ND	ND	ND	2.715	
0505	7	32	33.445	2310	55	13.81N	97	35.46E	55	40N	97	21E	617575	24832	164	17	44	10	ND	ND	ND	2.720	
0606	7	32	35.761	2315	55	4.71N	97	39.92E	55	31N	97	26E	617412	24833	164	21	44	15	ND	ND	ND	2.714	
0707	7	32	38.065	2305	54	55.06N	97	44.32E	55	22N	97	30E	617254	24833	164	26	44	20	ND	ND	ND	2.726	
0808	7	32	40.375	2310	54	46.58N	97	48.69E	55	13N	97	35E	617098	24834	164	30	44	25	ND	ND	ND	2.720	
0909	7	32	42.681	2305	54	37.51N	97	53.02E	55	4N	97	43E	616944	24834	164	35	44	30	ND	ND	ND	2.726	
1010	7	32	44.985	2305	54	28.45N	97	57.31E	54	54N	97	48E	616794	24835	164	39	44	35	ND	ND	ND	2.726	
1111	7	32	47.286	2301	54	19.39N	98	1.56E	54	45N	97	52E	616648	24835	164	44	44	40	ND	ND	ND	2.731	
1212	7	32	49.591	2300	54	10.32N	98	5.78E	54	36N	97	56E	616503	24835	164	48	44	45	ND	ND	ND	2.727	
1313	7	32	51.891	2300	54	1.26N	98	9.96E	54	27N	97	56E	616352	24835	164	52	44	49	ND	ND	ND	2.732	
1414	7	32	54.195	2305	53	52.18N	98	14.11E	54	18N	98	1E	616223	24836	164	57	44	54	ND	ND	ND	2.726	
1515	7	32	56.500	2305	53	43.18N	98	18.23E	54	9N	98	5E	616088	24836	165	1	44	59	ND	ND	ND	2.726	
1616	7	32	58.802	2301	53	34.02N	98	22.30E	54	0N	98	9E	615955	24836	165	5	45	4	ND	ND	ND	2.731	
1717	7	32	1.105	2304	53	24.94N	98	26.35E	53	51N	98	13E	615825	24837	165	9	45	9	ND	ND	ND	2.727	
1818	7	32	3.410	2305	53	15.84N	98	30.37E	53	42N	98	17E	615698	24837	165	13	45	14	ND	ND	ND	2.726	
1919	7	32	5.718	2305	53	6.77N	98	34.35E	53	33N	98	21E	615574	24837	165	17	45	18	ND	ND	ND	2.732	
2020	7	32	8.016	2305	52	57.66N	98	38.30E	53	24N	98	25E	615452	24838	165	22	45	23	ND	ND	ND	2.726	
2121	7	32	10.316	2301	52	48.58N	98	42.22E	53	15N	98	29E	615334	24838	165	26	45	28	ND	ND	ND	2.731	
2222	7	32	12.620	2304	52	39.47N	98	46.11E	53	6N	98	33E	615219	24838	165	30	45	32	ND	ND	ND	2.727	
2323	7	32	14.921	2300	52	30.38N	98	49.96E	52	56N	98	37E	615106	24839	165	34	45	37	ND	ND	ND	2.732	
2424	7	32	17.226	2305	52	21.27N	98	53.79E	52	47N	98	41E	614997	24839	165	37	45	42	ND	ND	ND	2.726	
2525	7	32	19.525	2300	52	12.17N	98	57.58E	52	38N	98	45E	614890	24839	165	41	45	46	ND	ND	ND	2.732	
2626	7	32	21.825	2300	52	3.07N	99	1.53E	52	29N	98	49E	614787	24839	165	45	45	51	ND	ND	ND	2.732	
2727	7	32	24.125	2300	51	53.97N	99	5.08E	52	20N	98	53E	614685	24840	165	49	45	56	ND	ND	ND	2.732	
2828	7	32	26.421	2295	51	44.88N	99	8.78E	52	11N	98	57E	614588	24840	165	53	46	0	ND	ND	ND	2.738	
2929	7	32	28.721	2300	51	35.77N	99	12.45E	52	2N	99	0E	614493	24840	165	57	46	5	ND	ND	ND	2.732	
3030	7	32	31.021	2300	51	26.66N	99	16.10E	51	53N	99	4E	614402	24840	166	0	46	9	ND	ND	ND	2.732	
3131	7	32	33.315	2295	51	17.57N	99	19.71E	51	44N	99	8E	614312	24841	166	4	46	14	ND	ND	ND	2.738	
3232	7	32	35.615	2300	51	8.45N	99	23.30E	51	35N	99	11E	614226	24841	166	8	46	18	ND	ND	ND	2.732	
3333	7	32	37.906	2291	50	59.37N	99	26.86E	51	25N	99	15E	614144	24841	166	12	46	23	ND	ND	ND	2.743	
3434	7	32	40.205	2299	50	50.25N	99	30.93E	51	16N	99	19E	614064	24841	166	15	46	27	ND	ND	ND	2.733	
3535	7	32	42.500	2295	50	41.15N	99	33.98E	51	7N	99	22E	613986	24841	166	19	46	32	ND	ND	ND	2.738	

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY.

TOP SECRET
SPECIAL HANDLING REQUIRED
FRAME EPHEMERIS

MISSION 1889-2

ID 27

LIST DATE 07MAY65

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FRM	HR MI	SEC	DTIM	DEG	LAT	DEG	LONG	DEG	LONG	DEG	LONG	ALTITUDE	VELOC	DEG	MI	DEG	MI	DEG	MIN	PITCH	ROLL	YAW	SCAN
PASS	69D	AFT	18AUG64		CAMERA	NADIR						FEET	F/S	MI	MI	SUN/	MI		DEG	MIN	DEG	MIN	RATE
136	7	33	44.796	2295	50	32.04N	99	37.37E	50	58N	99	613912	24842	166	22	46	36	ND	ND	ND	ND	2.738	
137	7	33	47.096	2300	50	22.91N	99	40.83E	50	49N	99	613841	24842	166	26	46	48	ND	ND	ND	ND	2.732	
138	7	33	49.392	2296	50	13.79N	99	44.26E	50	40N	99	613772	24842	166	29	46	45	ND	ND	ND	ND	2.757	
139	7	33	51.690	2299	50	4.66N	99	47.67E	50	31N	99	613707	24842	166	33	46	49	ND	ND	ND	ND	2.737	
140	7	33	53.986	2296	49	55.54N	99	51.04E	50	22N	99	613644	24842	166	36	46	53	ND	ND	ND	ND	2.733	
141	7	33	56.285	2299	49	46.40N	99	54.40E	50	13N	99	613585	24842	166	40	46	58	ND	ND	ND	ND	2.732	
142	7	33	58.585	2300	49	37.26N	99	57.73E	50	3N	99	613528	24843	166	43	47	2	ND	ND	ND	ND	2.744	
143	7	34	0.875	2290	49	28.15N	100	1.03E	49	54N	99	613475	24843	166	47	47	6	ND	ND	ND	ND	2.738	
144	7	34	3.171	2295	49	19.02N	100	4.31E	49	45N	99	613425	24843	166	50	47	10	ND	ND	ND	ND	2.744	
145	7	34	5.460	2290	49	9.92N	100	7.56E	49	36N	99	613377	24843	166	57	47	15	ND	ND	ND	ND	2.744	
146	7	34	7.761	2300	48	0.76N	100	10.80E	49	27N	100	613332	24843	166	57	47	19	ND	ND	ND	ND	2.738	
147	7	34	10.056	2295	48	51.63N	100	14.00E	49	18N	100	613291	24843	167	0	47	23	ND	ND	ND	ND	2.732	
148	7	34	12.355	2300	48	42.47N	100	17.20E	49	9N	100	613252	24843	167	3	47	27	ND	ND	ND	ND	0.093	
149	7	35	20.120	67765	44	11.76N	101	42.03E	44	38N	101	613554	24843	168	29	49	18	ND	ND	ND	ND	1.976	
150	7	35	23.301	3180	43	59.02N	101	45.62E	44	25N	101	613621	24843	168	36	49	23	ND	ND	ND	ND	2.416	
151	7	35	25.901	2601	43	48.60N	101	48.54E	44	15N	101	613688	24843	168	39	49	30	ND	ND	ND	ND	2.566	
152	7	35	28.351	2449	43	38.78N	101	51.26E	44	5N	101	613756	24843	168	41	49	34	ND	ND	ND	ND	2.640	
153	7	35	30.730	2380	43	29.24N	101	53.89E	43	56N	101	613756	24843	168	41	49	37	ND	ND	ND	ND	2.668	
154	7	35	33.085	2355	43	19.79N	101	56.40E	43	46N	101	613826	24842	168	46	49	40	ND	ND	ND	ND	2.697	
155	7	35	35.415	2330	43	10.45N	101	59.02E	43	37N	101	613895	24842	168	49	49	43	ND	ND	ND	ND	2.708	
156	7	35	37.735	2325	42	1.14N	102	1.54E	43	27N	101	613975	24842	168	49	49	47	ND	ND	ND	ND	2.713	
157	7	35	40.061	2320	42	51.81N	102	4.04E	43	18N	101	614055	24842	168	51	49	47	ND	ND	ND	ND	2.709	
158	7	35	42.376	2316	42	42.52N	102	6.52E	43	9N	102	614137	24842	168	54	49	50	ND	ND	ND	ND	2.714	
159	7	35	44.695	2319	42	33.21N	102	8.99E	42	0N	102	614223	24842	168	56	49	53	ND	ND	ND	ND	2.714	
160	7	35	47.011	2315	42	23.92N	102	11.44E	42	50N	102	614312	24842	168	59	49	59	ND	ND	ND	ND	2.714	
161	7	35	49.325	2315	42	14.63N	102	13.87E	42	41N	102	614403	24841	169	1	49	59	ND	ND	ND	ND	2.708	
162	7	35	51.646	2320	42	5.31N	102	16.30E	42	32N	102	614498	24841	169	4	50	2	ND	ND	ND	ND	2.714	
163	7	35	53.960	2315	41	56.01N	102	18.70E	42	22N	102	614596	24841	169	6	50	5	ND	ND	ND	ND	2.720	
164	7	35	56.271	2310	41	46.73N	102	21.09E	42	13N	102	614698	24840	169	11	50	11	ND	ND	ND	ND	2.720	
165	7	35	58.580	2310	41	37.46N	102	23.46E	42	4N	102	614802	24840	169	13	50	14	ND	ND	ND	ND	2.714	
166	7	36	0.896	2315	41	28.15N	102	25.82E	41	55N	102	614909	24840	169	13	50	14	ND	ND	ND	ND	2.720	
167	7	36	3.205	2310	41	18.87N	102	28.17E	41	45N	102	615020	24840	169	15	50	2	ND	ND	ND	ND	2.720	
168	7	36	5.516	2310	41	9.59N	102	30.49E	41	36N	102	615134	24840	169	18	50	20	ND	ND	ND	ND	2.720	
169	7	36	7.825	2310	41	0.30N	102	32.81E	41	27N	102	615251	24839	169	22	50	26	ND	ND	ND	ND	2.708	
170	7	36	10.146	2320	40	50.98N	102	35.12E	41	17N	102	615372	24839	169	25	50	28	ND	ND	ND	ND	2.714	
171	7	36	12.455	2310	40	41.69N	102	37.41E	40	8N	102	615495	24839	169	27	50	31	ND	ND	ND	ND	2.720	
172	7	36	14.771	2315	40	32.38N	102	39.69E	40	59N	102	615623	24839	169	29	50	34	ND	ND	ND	ND	2.714	
173	7	36	17.080	2310	40	23.09N	102	41.95E	40	50N	102	615753	24838	169	31	50	37	ND	ND	ND	ND	2.714	
174	7	36	19.396	2315	40	13.78N	102	44.21E	40	40N	102	615886	24838	169	33	50	39	ND	ND	ND	ND	2.719	
175	7	36	21.710	2315	40	4.47N	102	46.45E	40	31N	102	616022	24838	169	35	50	42	ND	ND	ND	ND	2.715	
176	7	36	24.021	2311	39	55.17N	102	48.67E	40	22N	102	616162	24837	169	36	50	44	ND	ND	ND	ND	2.708	
177	7	36	26.335	2314	39	45.86N	102	50.89E	40	12N	102	616305	24837	169	38	50	47	ND	ND	ND	ND	2.714	
178	7	36	28.655	2320	39	36.52N	102	53.09E	40	3N	102	616452	24837	169	40	50	50	ND	ND	ND	ND	2.714	
179	7	36	30.971	2315	39	27.20N	102	55.28E	39	54N	102	616600	24837	169	42	50	50	ND	ND	ND	ND	2.714	
180	7	36	33.285	2315	39	17.09N	102	57.46E	39	44N	102	616754	24836	169	44	50	52	ND	ND	ND	ND	2.714	

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 69D AFT 18AUG64 FRAME EPHEMERIS MISSION 1809-2 ID 27 LIST DATE 07MAY65 PAGE 124

FRM	HR	MI	SEC	DTIM	DEG	LAT	DEG	LONG	DEG	LAT	DEG	LONG	ALTITUDE	VELOC	DEG	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN	
				MILS		MIN		MIN		MIN		MIN	FEET	F/S	MI	DEG	MI	DEG	MIN	DEG	MIN	RATE
181	7	36	35.681	2315	39	8.56N	103	59.63E	39	35N	102	52E	616910	24836	169	46	50	55	ND	ND	2.714	
182	7	36	37.915	2315	38	59.24N	103	1.78E	39	26N	102	54E	617709	24835	169	48	50	57	ND	ND	2.714	
183	7	36	40.230	2315	38	49.92N	103	3.92E	39	16N	102	56E	617232	24835	169	50	51	0	ND	ND	2.714	
184	7	36	42.546	2315	38	40.60N	103	6.05E	39	7N	102	58E	617398	24835	169	52	51	2	ND	ND	2.714	
185	7	36	44.865	2320	38	31.25N	103	8.18E	38	58N	103	0E	617567	24834	169	55	51	4	ND	ND	2.708	
186	7	36	47.187	2321	38	21.90N	103	10.29E	38	48N	103	3E	617740	24834	169	57	51	7	ND	ND	2.708	
187	7	36	49.506	2319	38	12.56N	103	12.39E	38	39N	103	5E	617916	24834	169	59	51	9	ND	ND	2.709	
188	7	36	51.825	2320	38	3.21N	103	14.47E	38	30N	103	7E	618095	24833	170	1	51	11	ND	ND	2.708	
189	7	36	54.146	2320	37	53.86N	103	16.55E	38	20N	103	9E	618277	24833	170	3	51	14	ND	ND	2.708	
190	7	36	56.467	2321	37	44.51N	103	18.62E	38	11N	103	11E	618463	24832	170	5	51	16	ND	ND	2.707	
191	7	36	58.790	2324	37	35.15N	103	20.68E	38	2N	103	13E	618653	24832	170	7	51	18	ND	ND	2.707	
192	7	37	1.110	2320	37	25.79N	103	22.72E	37	52N	103	15E	618845	24832	170	9	51	20	ND	ND	2.708	
193	7	37	3.436	2325	37	16.42N	103	24.76E	37	43N	103	17E	619041	24831	170	10	51	22	ND	ND	2.702	
194	7	37	5.757	2321	37	7.06N	103	26.78E	37	34N	103	19E	619240	24831	170	12	51	24	ND	ND	2.707	
195	7	37	8.080	2324	36	57.69N	103	28.79E	37	24N	103	21E	619442	24830	170	14	51	26	ND	ND	2.704	
196	7	37	10.410	2330	36	48.29N	103	30.80E	37	15N	103	23E	619649	24830	170	16	51	28	ND	ND	2.697	
197	7	37	12.735	2325	36	38.92N	103	32.80E	37	6N	103	25E	619858	24829	170	18	51	31	ND	ND	2.702	
198	7	37	15.062	2326	36	29.53N	103	34.78E	36	56N	103	27E	620071	24829	170	20	51	32	ND	ND	2.701	
199	7	37	17.386	2324	36	20.16N	103	36.75E	36	47N	103	29E	620287	24828	170	22	51	34	ND	ND	2.704	
200	7	37	19.716	2330	36	10.76N	103	38.72E	36	37N	103	31E	620506	24828	170	24	51	36	ND	ND	2.697	
201	7	37	22.040	2325	36	1.38N	103	40.67E	36	28N	103	33E	620729	24827	170	26	51	38	ND	ND	2.702	
202	7	37	24.370	2330	35	51.98N	103	42.62E	36	19N	103	35E	620955	24827	170	27	51	40	ND	ND	2.697	
203	7	37	26.696	2326	35	42.59N	103	44.55E	36	9N	103	37E	621184	24826	170	29	51	42	ND	ND	2.701	
204	7	37	29.025	2329	35	33.19N	103	46.49E	36	0N	103	39E	621418	24826	170	31	51	44	ND	ND	2.698	
205	7	37	31.351	2325	35	23.81N	103	48.39E	35	51N	103	41E	621653	24825	170	33	51	45	ND	ND	2.702	
206	7	37	33.681	2330	35	14.40N	103	50.30E	35	41N	103	43E	621892	24825	170	35	51	47	ND	ND	2.697	
207	7	37	36.011	2330	35	4.99N	103	52.20E	35	32N	103	45E	622136	24824	170	36	51	49	ND	ND	2.697	
208	7	37	38.341	2330	34	55.59N	103	54.09E	35	22N	103	47E	622382	24824	170	38	51	50	ND	ND	2.697	
209	7	37	40.676	2335	34	46.16N	103	55.97E	35	13N	103	49E	622632	24823	170	40	51	52	ND	ND	2.691	
210	7	37	43.012	2336	34	36.73N	103	57.85E	35	04N	103	51E	622886	24822	170	42	51	54	ND	ND	2.690	
211	7	37	45.346	2334	34	27.30N	103	59.71E	34	54N	103	53E	623142	24822	170	43	51	55	ND	ND	2.692	
212	7	37	47.681	2335	34	17.87N	103	1.56E	34	45N	103	55E	623402	24821	170	45	51	57	ND	ND	2.691	
213	7	37	50.016	2335	34	8.44N	104	3.41E	34	35N	103	56E	623666	24821	170	47	51	58	ND	ND	2.691	
214	7	37	52.355	2340	33	58.99N	104	5.25E	34	26N	103	58E	623934	24820	170	48	52	0	ND	ND	2.685	
215	7	37	54.690	2335	33	49.56N	104	7.08E	34	16N	103	0E	624204	24819	170	50	52	1	ND	ND	2.691	
216	7	37	57.027	2337	33	40.12N	104	8.90E	34	7N	104	2E	624478	24819	170	52	52	2	ND	ND	2.689	

Approved For Release 2001/08/21 : CIA-RDP78T05439A00050015-3-1

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

PASS	78D AFT	18AUG64	CAMERA MADIR				FORMAT CENTER				MISSION 1889-2					ID 27	LIST DATE 87MAY65	PAGE 125
FRM	Z TIME	DTIM	LAT	DEG	MIN	LONG	DEG	MIN	LONG	ALTITUDE	VELOC	DEG	MI	SUN/	PITCH	ROLL	YAW	SCAN
HR	MI	SEC	DEG	MIN	SEC	DEG	MIN	SEC	FEET	F/S	MI	DEG	MI	DEG	MIN	MIN	MIN	RATE
1	9	0	21.811	66	18.79N	66	43.57E	66	36N	66	14E	6367220	24787	155	59	37	15	1.936
2	9	0	25.056	65	58.73N	66	56.74E	66	24N	66	28E	6362221	24788	156	12	37	23	1.936
3	9	0	27.721	65	48.81N	67	7.40E	66	14N	66	39E	635816	24789	156	23	37	31	2.508
4	9	0	30.226	65	39.47N	67	17.28E	66	5N	66	49E	635438	24790	156	33	37	37	2.575
5	9	0	32.665	65	38.37N	67	26.79E	65	56N	66	59E	6356713	24791	156	43	37	44	2.575
6	9	0	35.075	65	21.36N	67	36.06E	65	47N	67	8E	634714	24791	156	53	37	50	2.607
7	9	0	37.471	65	12.48N	67	45.17E	65	38N	67	18E	634351	24792	157	2	37	56	2.623
8	9	0	39.851	65	3.48N	67	54.11E	65	29N	67	27E	634013	24793	157	11	38	3	2.640
9	9	0	42.226	64	54.57N	68	2.93E	65	20N	67	36E	633668	24794	157	20	38	9	2.646
10	9	0	44.596	64	45.67N	68	11.63E	65	11N	67	45E	633356	24795	157	29	38	15	2.651
11	9	0	46.960	64	36.78N	68	20.20E	65	2N	67	54E	632988	24796	157	38	38	21	2.657
12	9	0	49.321	64	27.90N	68	28.67E	64	54N	68	3E	632653	24796	157	47	38	27	2.661
13	9	0	51.686	64	18.99N	68	37.05E	64	45N	68	11E	632320	24797	157	55	38	33	2.661
14	9	0	54.047	64	10.08N	68	45.32E	64	36N	68	29E	631990	24798	158	4	38	39	2.663
15	9	0	56.405	64	1.18N	68	53.49E	64	27N	68	37E	631664	24799	158	12	38	46	2.674
16	9	0	58.756	63	52.30N	69	1.54E	64	18N	68	45E	631020	24800	158	20	38	52	2.674
17	9	1	1.105	63	43.41N	69	9.49E	64	9N	68	53E	630703	24801	158	37	39	4	2.674
18	9	1	3.460	63	34.49N	69	17.38E	64	0N	68	1E	630387	24802	158	45	39	10	2.674
19	9	1	5.811	63	25.58N	69	25.16E	63	51N	69	9E	630076	24802	158	53	39	16	2.679
20	9	1	8.155	63	16.69N	69	32.84E	63	42N	69	17E	629767	24803	159	1	39	22	2.679
21	9	1	10.500	63	7.78N	69	40.43E	63	33N	69	25E	629460	24804	159	8	39	28	2.679
22	9	1	12.851	62	58.85N	69	47.96E	63	25N	69	32E	629158	24805	159	16	39	34	2.674
23	9	1	15.186	62	49.96N	69	55.36E	63	16N	69	40E	628857	24805	159	24	39	40	2.679
24	9	1	17.530	62	41.03N	69	2.71E	63	7N	69	48E	628560	24806	159	31	39	46	2.691
25	9	1	19.865	62	32.13N	69	9.95E	62	58N	69	48E	628265	24807	159	38	39	51	2.684
26	9	1	22.206	62	23.21N	69	17.13E	62	49N	69	55E	628265	24807	159	38	39	51	2.679
27	9	1	24.545	62	14.28N	69	24.23E	62	40N	69	2E	627973	24807	159	46	39	57	2.686
28	9	1	26.881	62	5.35N	69	31.24E	62	31N	69	9E	627683	24808	159	53	40	3	2.691
29	9	1	29.216	61	56.42N	69	38.18E	62	22N	69	17E	627397	24809	160	8	40	9	2.691
30	9	1	31.547	61	47.50N	69	45.03E	62	13N	69	24E	627114	24809	160	14	40	15	2.695
31	9	1	33.881	61	38.53N	69	51.82E	62	4N	69	31E	626833	24810	160	21	40	21	2.692
32	9	1	36.210	61	29.63N	69	58.53E	61	55N	69	38E	626556	24811	160	28	40	26	2.697
33	9	1	38.540	61	20.69N	69	5.17E	61	47N	69	44E	626281	24811	160	28	40	32	2.697
34	9	1	40.870	61	11.75N	69	11.74E	61	38N	69	51E	626008	24812	160	35	40	38	2.697
35	9	1	43.205	61	2.78N	69	18.26E	61	29N	69	58E	625739	24813	160	41	40	44	2.691
36	9	1	45.525	60	53.86N	69	24.67E	61	20N	69	5E	625473	24813	160	48	40	50	2.708
37	9	1	47.855	60	44.09N	69	31.04E	61	11N	69	11E	625208	24814	160	55	40	55	2.697
38	9	1	50.186	60	35.92N	69	37.35E	61	2N	69	18E	624947	24815	161	1	41	1	2.697
39	9	1	52.511	60	26.96N	69	43.59E	60	53N	69	24E	624688	24815	161	8	41	7	2.708
40	9	1	54.830	60	18.02N	69	49.74E	60	44N	69	30E	624434	24816	161	14	41	12	2.708
41	9	1	57.150	60	9.07N	69	55.84E	60	35N	69	37E	624181	24816	161	20	41	18	2.708
42	9	1	59.472	60	8.11N	69	1.88E	60	26N	69	43E	623932	24817	161	27	41	24	2.707
43	9	2	1.790	59	51.15N	69	7.85E	60	17N	69	49E	623685	24818	161	33	41	29	2.708
44	9	2	4.110	59	42.18N	69	13.77E	60	8N	69	55E	623442	24818	161	39	41	35	2.708
45	9	2	6.431	59	33.21N	69	19.63E	59	59N	69	1E	623200	24819	161	45	41	40	2.708

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
Talent-Keyhole
Control Only

TCS 84818-65
TOP SECRET
SPECIAL HANDLING REQUIRED

FRAME EPHEMERIS MISSION 1809-2

PASS 780 AFT 18AUG64

ID 27

LIST DATE 07MAY65 PAGE 126

FRM	2 TIME	DTIM	CAMERA	MADIR	FORMAT	CENTER	ALTIUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR	MI	SEC	MILS	DEG	LAT	DEG	MIN	FEET	F/S	DEG	MI	DEG	MIN	RATE
46	9	2 8.750	2328	59 24.23N	72 25.43E	59 50N	72 7E	622961	24819	161 51	41 46	44 51	ND	2.708
47	9	2 11.078	2328	59 15.24N	72 31.18E	59 41N	72 13E	622726	24820	161 57	41 51	44 51	ND	2.708
48	9	2 13.391	2328	59 6.25N	72 36.87E	59 32N	72 19E	622493	24821	162 3	41 57	44 51	ND	2.708
49	9	2 15.705	2315	58 57.28N	72 42.50E	59 23N	72 25E	622262	24821	162 9	42 2	44 51	ND	2.714
50	9	2 18.021	2315	58 48.29N	72 48.07E	59 14N	72 30E	622036	24822	162 14	42 8	44 51	ND	2.714
51	9	2 20.335	2315	58 39.31N	72 53.59E	59 5N	72 36E	621811	24822	162 20	42 13	44 51	ND	2.714
52	9	2 22.650	2315	58 30.32N	72 59.06E	58 56N	72 42E	621589	24823	162 26	42 19	44 51	ND	2.714
53	9	2 24.966	2310	58 21.34N	73 4.47E	58 47N	72 47E	621378	24823	162 31	42 24	44 51	ND	2.720
54	9	2 27.275	2315	58 12.34N	73 9.83E	58 38N	72 53E	621155	24824	162 37	42 30	44 51	ND	2.714
55	9	2 29.581	2306	58 3.37N	73 15.13E	58 29N	72 58E	620943	24824	162 42	42 35	44 51	ND	2.725
56	9	2 31.892	2310	57 54.37N	73 20.39E	58 20N	73 4E	620732	24825	162 48	42 40	44 51	ND	2.720
57	9	2 34.200	2309	57 45.38N	73 25.59E	58 11N	73 9E	620525	24825	162 53	42 46	44 51	ND	2.721
58	9	2 36.511	2310	57 36.37N	73 30.75E	58 2N	73 14E	620310	24826	163 58	42 51	44 51	ND	2.720
59	9	2 38.820	2310	57 27.37N	73 35.87E	57 53N	73 20E	620128	24827	163 4	42 57	44 51	ND	2.720
60	9	2 41.131	2310	57 18.36N	73 40.93E	57 44N	73 25E	619919	24827	163 9	43 2	44 51	ND	2.720
61	9	2 43.431	2300	57 9.38N	73 45.93E	57 35N	73 30E	619724	24827	163 14	43 7	44 51	ND	2.732
62	9	2 45.740	2310	57 0.36N	73 50.91E	57 26N	73 35E	619530	24828	163 19	43 12	44 51	ND	2.720
63	9	2 48.040	2300	56 51.38N	73 55.82E	57 17N	73 40E	619340	24828	163 24	43 18	44 51	ND	2.732
64	9	2 50.346	2305	56 42.37N	74 0.70E	57 8N	73 45E	619152	24829	163 29	43 23	44 51	ND	2.726
65	9	2 52.650	2305	56 33.35N	74 5.53E	56 59N	73 50E	618968	24829	163 34	43 28	44 51	ND	2.726
66	9	2 54.950	2301	56 24.36N	74 10.51E	56 50N	73 55E	618786	24829	163 39	43 33	44 51	ND	2.732
67	9	2 57.251	2301	56 15.35N	74 15.05E	56 41N	74 0E	618607	24830	163 44	43 38	44 51	ND	2.731
68	9	2 59.552	2300	56 6.34N	74 19.75E	56 32N	74 5E	618431	24830	163 49	43 44	44 51	ND	2.732
69	9	3 1.855	2304	55 57.32N	74 24.42E	56 23N	74 9E	618258	24831	163 54	43 49	44 51	ND	2.727
70	9	3 4.160	2305	55 48.28N	74 29.05E	56 14N	74 14E	618087	24831	163 59	43 54	44 51	ND	2.726
71	9	3 6.455	2295	55 39.28N	74 33.61E	56 5N	74 19E	617919	24832	164 3	43 59	44 51	ND	2.738
72	9	3 8.756	2300	55 30.26N	74 38.15E	55 56N	74 24E	617755	24832	164 8	44 4	44 51	ND	2.732
73	9	3 11.056	2300	55 21.23N	74 42.65E	55 47N	74 28E	617593	24832	164 13	44 9	44 51	ND	2.732
74	9	3 13.356	2301	55 12.20N	74 47.11E	55 38N	74 33E	617433	24833	164 17	44 14	44 51	ND	2.731
75	9	3 15.655	2299	55 3.17N	74 51.54E	55 29N	74 37E	617277	24833	164 22	44 19	44 51	ND	2.732
76	9	3 17.955	2295	54 54.13N	74 55.92E	55 20N	74 42E	617124	24833	164 26	44 24	44 51	ND	2.732
77	9	3 20.250	2295	54 45.11N	75 0.26E	55 11N	74 46E	616973	24834	164 31	44 29	44 51	ND	2.738
78	9	3 22.545	2295	54 36.09N	75 4.56E	55 2N	74 51E	616826	24834	164 35	44 34	44 51	ND	2.738
79	9	3 24.841	2295	54 27.06N	75 8.83E	54 53N	74 55E	616681	24835	164 40	44 39	44 51	ND	2.738
80	9	3 27.136	2295	54 18.02N	75 13.07E	54 44N	74 59E	616539	24835	164 44	44 44	44 51	ND	2.738
81	9	3 29.436	2300	54 8.97N	75 17.27E	54 35N	75 4E	616400	24835	164 49	44 49	44 51	ND	2.732
82	9	3 31.730	2295	53 59.93N	75 21.43E	54 26N	75 8E	616264	24836	164 53	44 54	44 51	ND	2.738
83	9	3 34.025	2295	53 50.89N	75 25.56E	54 17N	75 12E	616130	24836	164 57	44 59	44 51	ND	2.738
84	9	3 36.320	2295	53 41.84N	75 29.66E	54 8N	75 16E	616000	24836	165 1	45 3	44 51	ND	2.738
85	9	3 38.611	2291	53 32.81N	75 33.71E	53 59N	75 20E	615872	24837	165 6	45 8	44 51	ND	2.743
86	9	3 40.910	2299	53 23.74N	75 37.75E	53 50N	75 25E	615747	24837	165 10	45 13	44 51	ND	2.733
87	9	3 43.200	2290	53 14.70N	75 41.74E	53 41N	75 29E	615626	24837	165 14	45 18	44 51	ND	2.744
88	9	3 45.495	2295	53 5.65N	75 45.70E	53 32N	75 33E	615507	24837	165 18	45 23	44 51	ND	2.736
89	9	3 47.790	2295	52 56.58N	75 49.64E	53 23N	75 37E	615390	24838	165 22	45 27	44 51	ND	2.738
90	9	3 50.085	2295	52 47.52N	75 53.54E	53 14N	75 41E	615277	24838	165 26	45 32	44 51	ND	2.738

TOP SECRET

HANDLE VIA

HANDLE VIA
Talent-Keyhole
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

FRAME EPHEMERIS
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PAGE 127

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

FRM	HR	MI	SEC	DTIM	MILS	DEG	LAT	DEG	MIN	LONG	DEG	MIN	LONG	DEG	MIN	LONG	ALTITUDE FEET	VELOC F/S	AZIMUTH DEG	SUN/ DEG	PITCH DEG	ROLL DEG	YAW DEG	SCAN RATE
91	3	52	3780	2290	52	38.47N	75	57.40E	53	5N	75	45E	615166	24838	165	30	8	45	37	45	37	ND	ND	2.744
92	3	54	665	2290	52	29.42N	76	1.23E	52	55N	75	49E	615059	24839	165	34	8	45	42	45	42	ND	ND	2.744
93	3	56	960	2295	52	28.34N	76	5.84E	52	46N	75	53E	614955	24839	165	38	8	45	46	45	46	ND	ND	2.738
94	3	59	250	2290	52	11.29N	76	8.82E	52	37N	75	56E	614853	24839	165	42	8	45	51	45	51	ND	ND	2.744
95	4	1	540	2290	52	2.23N	76	12.56E	52	28N	76	0E	614755	24839	165	46	8	45	55	45	55	ND	ND	2.744
96	4	3	830	2290	51	53.16N	76	16.27E	52	19N	76	4E	614659	24840	165	49	8	46	0	46	0	ND	ND	2.744
97	4	6	120	2291	51	44.10N	76	19.99E	52	10N	76	8E	614566	24840	165	53	8	46	5	46	5	ND	ND	2.743
98	4	8	411	2291	51	35.02N	76	23.62E	52	1N	76	12E	614476	24840	165	57	8	46	9	46	9	ND	ND	2.745
99	4	10	700	2289	51	25.96N	76	27.25E	51	52N	76	15E	614388	24840	166	1	8	46	14	46	14	ND	ND	2.738
100	4	12	995	2295	51	16.86N	76	30.86E	51	43N	76	19E	614304	24840	166	4	8	46	18	46	18	ND	ND	2.750
101	4	15	280	2285	51	7.80N	76	34.42E	51	34N	76	23E	614425	24841	166	8	8	46	23	46	23	ND	ND	2.738
102	4	17	575	2295	50	58.70N	76	37.98E	51	25N	76	30E	614445	24841	166	12	8	46	27	46	27	ND	ND	2.744
103	4	19	865	2290	50	49.62N	76	41.50E	51	16N	76	38E	614069	24841	166	15	8	46	32	46	32	ND	ND	2.744
104	4	22	155	2290	50	40.54N	76	44.99E	51	7N	76	33E	613997	24841	166	19	8	46	36	46	36	ND	ND	2.750
105	4	24	440	2285	50	31.47N	76	48.45E	50	58N	76	37E	613927	24841	166	23	8	46	41	46	41	ND	ND	2.738
106	4	26	735	2295	50	22.36N	76	51.90E	50	48N	76	40E	613868	24842	166	26	8	46	45	46	45	ND	ND	2.744
107	4	29	025	2290	50	13.26N	76	55.32E	50	39N	76	44E	613797	24842	166	30	8	46	49	46	49	ND	ND	2.749
108	4	31	312	2286	50	4.18N	76	58.71E	50	30N	76	47E	613736	24842	166	33	8	46	54	46	54	ND	ND	2.745
109	4	33	601	2289	49	55.09N	77	2.07E	50	21N	76	51E	613678	24842	166	37	8	47	58	47	58	ND	ND	2.744
110	4	35	891	2290	49	45.99N	77	5.42E	50	12N	76	54E	613623	24842	166	40	8	47	2	47	2	ND	ND	2.744
111	4	38	181	2290	49	36.89N	77	8.73E	50	3N	76	58E	613571	24842	166	43	8	47	7	47	7	ND	ND	2.738
112	4	40	476	2295	49	27.76N	77	12.04E	49	45N	77	11E	613522	24842	166	47	8	47	11	47	11	ND	ND	2.750
113	4	42	761	2285	49	18.67N	77	15.30E	49	36N	77	8E	613476	24843	166	50	8	47	15	47	15	ND	ND	2.744
114	4	45	056	2295	49	9.54N	77	18.55E	49	27N	77	14E	613433	24843	166	53	8	47	19	47	19	ND	ND	2.744
115	4	47	346	2290	49	0.43N	77	21.78E	49	17N	77	11E	613393	24843	166	57	8	47	23	47	23	ND	ND	2.738
116	4	49	641	2295	48	51.30N	77	24.98E	49	8N	77	14E	613356	24843	167	0	8	47	32	47	32	ND	ND	2.744
117	4	51	936	2295	48	42.16N	77	28.17E	49	8N	77	17E	613329	24843	167	3	8	47	36	47	36	ND	ND	2.744
118	4	54	226	2290	48	33.04N	77	31.32E	48	59N	77	21E	613290	24843	167	7	8	47	40	47	40	ND	ND	2.750
119	4	56	511	2285	48	23.94N	77	34.45E	48	50N	77	24E	613262	24843	167	10	8	47	44	47	44	ND	ND	2.743
120	4	58	802	2291	48	14.81N	77	37.56E	48	41N	77	27E	613236	24843	167	13	8	47	48	47	48	ND	ND	2.744
121	5	1	096	2294	48	5.67N	77	40.66E	48	32N	77	30E	613215	24843	167	16	8	47	48	47	48	ND	ND	2.744
122	5	3	386	2290	48	56.54N	77	43.72E	48	23N	77	36E	613179	24843	167	25	8	47	52	47	52	ND	ND	2.744
123	5	5	676	2290	48	47.41N	77	46.77E	48	14N	77	48E	613166	24843	167	29	8	48	0	48	0	ND	ND	2.738
124	5	7	971	2295	47	38.26N	77	49.80E	48	4N	77	49E	613156	24844	167	32	8	48	4	48	4	ND	ND	2.744
125	5	10	261	2290	47	29.12N	77	52.81E	47	55N	77	43E	613156	24844	167	35	8	48	8	48	8	ND	ND	2.744
126	5	12	551	2290	47	19.99N	77	55.79E	47	46N	77	46E	613149	24844	167	39	8	48	12	48	12	ND	ND	2.744
127	5	14	841	2290	47	10.85N	77	58.75E	47	37N	77	49E	613144	24844	167	42	8	48	16	48	16	ND	ND	2.750
128	5	17	131	2290	47	1.71N	78	1.70E	47	28N	77	52E	613143	24844	167	45	8	48	20	48	20	ND	ND	2.744
129	5	19	415	2285	46	52.59N	78	4.61E	47	19N	77	55E	613145	24844	167	41	8	48	24	48	24	ND	ND	2.744
130	5	21	705	2290	46	43.44N	78	7.51E	47	10N	77	58E	613149	24844	167	43	8	48	28	48	28	ND	ND	2.750
131	5	23	990	2285	46	34.32N	78	10.39E	47	1N	78	1E	613158	24844	167	46	8	48	31	48	31	ND	ND	2.744
132	5	26	280	2290	46	25.17N	78	13.26E	46	51N	78	3E	613168	24844	167	49	8	48	35	48	35	ND	ND	2.750
133	5	28	565	2285	46	16.04N	78	16.10E	46	42N	78	6E	613182	24844	167	52	8	48	39	48	39	ND	ND	2.744
134	5	30	855	2290	46	6.89N	78	18.92E	46	33N	78	9E	613199	24844	167	55	8	48	42	48	42	ND	ND	2.750
135	5	33	141	2285	45	57.75N	78	21.72E	46	24N	78	12E	613219	24844	167	58	8	48	42	48	42	ND	ND	2.750

SPECIAL HANDLING REQUIRED
TOP SECRET

HANDLE VIA
Talent-Keyhole
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 700 AFT 18AUG64

FRAME EPHEMERIS MISSION 1809-2

ID 27

LIST DATE 07MAY65

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FRM	HR	MI	Z TIME	SEC	DTIM	MILS	CAMERA NADIR		FORMAT CENTER		ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN							
							DEG	MIN	DEG	MIN									FEET	F/S	DEG	MI	DEG	MI	DEG
136	9	5	35.431		2290	45	48.60N	78	24.51E	46	15N	78	15E	613242	24844	168	1	48	46	ND	ND	ND	ND	2.744	
137	9	5	37.726		2295	45	39.42N	78	27.29E	46	6N	78	18E	613268	24843	168	4	48	50	ND	ND	ND	ND	2.738	
138	9	5	40.011		2285	45	30.28N	78	30.04E	45	57N	78	21E	613297	24843	168	6	48	53	ND	ND	ND	ND	2.758	
139	9	5	42.301		2290	45	21.12N	78	32.77E	45	47N	78	23E	613329	24843	168	9	48	57	ND	ND	ND	ND	2.744	
140	9	5	44.591		2290	45	11.95N	78	35.49E	45	38N	78	26E	613365	24843	168	12	49	1	4	ND	ND	ND	ND	2.744
141	9	5	46.881		2290	45	2.79N	78	38.19E	45	29N	78	29E	613403	24843	168	15	49	4	8	ND	ND	ND	ND	2.738
142	9	5	49.176		2295	44	53.60N	78	40.80E	45	20N	78	32E	613445	24843	168	17	49	11	11	ND	ND	ND	ND	2.744
143	9	5	51.466		2290	44	44.43N	78	43.54E	45	11N	78	34E	613489	24843	168	20	49	11	11	ND	ND	ND	ND	2.752
144	9	5	53.748		2283	44	35.30N	78	46.18E	45	2N	78	37E	613536	24843	168	23	49	15	15	ND	ND	ND	ND	2.729
145	9	5	56.051		2302	44	26.07N	78	48.83E	44	52N	78	40E	613587	24843	168	25	49	18	18	ND	ND	ND	ND	2.738
146	9	5	58.346		2295	44	16.88N	78	51.45E	44	43N	78	42E	613641	24843	168	28	49	22	22	ND	ND	ND	ND	2.738
147	9	6	0.637		2291	44	7.70N	78	54.05E	44	34N	78	45E	613697	24843	168	31	49	25	25	ND	ND	ND	ND	2.743
148	9	6	2.931		2294	43	58.51N	78	56.63E	44	25N	78	48E	613758	24843	168	33	49	29	29	ND	ND	ND	ND	2.739
149	9	6	5.226		2295	43	49.31N	78	59.20E	44	16N	78	50E	613820	24842	168	36	49	32	32	ND	ND	ND	ND	2.738
150	9	6	7.516		2290	43	40.13N	79	1.75E	44	6N	78	53E	613887	24842	168	38	49	35	35	ND	ND	ND	ND	2.744
151	9	6	9.806		2290	43	30.95N	79	4.29E	43	57N	78	55E	613956	24842	168	41	49	39	39	ND	ND	ND	ND	2.744
152	9	6	12.096		2290	43	21.55N	79	6.80E	43	48N	78	58E	614028	24842	168	43	49	42	42	ND	ND	ND	ND	2.744
153	9	6	14.396		2300	43	12.55N	79	9.32E	43	39N	79	1E	614104	24842	168	46	49	45	45	ND	ND	ND	ND	2.732
154	9	6	16.690		2295	43	3.34N	79	11.81E	43	30N	79	3E	614182	24842	168	48	49	48	48	ND	ND	ND	ND	2.738
155	9	6	18.980		2290	42	54.15N	79	14.28E	43	20N	79	6E	614263	24841	168	51	49	52	52	ND	ND	ND	ND	2.744

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

FRM	Z TIME	DTIM	CAMERA	FORMAT	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI	SEC	MILS	LAT	LAT	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
1	11 43	50.860	38 48.28N	38 6N	981548	24089	10 4	-18 10	ND	ND	ND	1.241
2	11 43	55.926	39 8.01N	38 26N	979373	24013	10 8	-17 54	ND	ND	ND	1.241
3	11 44	0.351	39 25.24N	38 43N	977476	24018	10 12	-17 40	ND	ND	ND	1.420
4	11 44	4.625	39 41.88N	39 8N	975644	24022	10 16	-17 27	ND	ND	ND	1.470
5	11 44	8.841	39 58.29N	39 16N	973840	24025	10 20	-17 14	ND	ND	ND	1.491
6	11 44	13.021	40 14.56N	39 33N	972052	24029	10 24	-17 1	ND	ND	ND	1.503
7	11 44	17.190	40 30.79N	49N	970271	24033	10 28	-16 48	ND	ND	ND	1.507
8	11 44	21.335	40 46.92N	5N	968501	24037	10 31	-16 35	ND	ND	ND	1.516
9	11 44	25.466	41 2.99N	21N	966739	24041	10 35	-16 22	ND	ND	ND	1.521
10	11 44	29.575	41 18.98N	38N	964988	24045	10 39	-16 9	ND	ND	ND	1.529
11	11 44	33.682	41 34.96N	54N	963240	24049	10 43	-15 57	ND	ND	ND	1.530
12	11 44	37.766	41 50.05N	18N	961503	24053	10 48	-15 44	ND	ND	ND	1.530
13	11 44	41.841	6.70N	25N	959773	24056	10 52	-15 31	ND	ND	ND	1.542

PASS 72A AFT 10AUG64

FRAME EPHEMERIS MISSION 1009-2

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TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
Talent Review

PASS 720 AFT 10AUG64

FRM	Z TIME	DTIM	CAMERA	NADR	FORMAT	CENTER	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI	SEC	MILS	DEG MIN	LONG	MIN	LONG	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
1 12	3 50.007	0	57 56.96N	27 40.66E	58 23N	27 24E	620428	24825	162 46	42 45	ND	ND	ND	2.137
2 12	3 52.946	2940	57 45.51N	27 47.30E	58 11N	27 31E	620175	24826	162 53	42 52	ND	ND	ND	2.137
3 12	3 55.507	2560	57 35.53N	27 53.02E	58 1N	27 37E	619957	24826	162 59	42 58	ND	ND	ND	2.454
4 12	3 57.941	2435	57 26.04N	27 58.40E	57 52N	27 42E	619754	24827	163 4	43 3	ND	ND	ND	2.580
5 12	4 0.326	2385	57 16.73N	28 3.63E	57 43N	27 48E	619558	24827	163 10	43 9	ND	ND	ND	2.634
6 12	4 2.682	2355	57 7.54N	28 8.74E	57 33N	27 53E	619367	24828	163 15	43 14	ND	ND	ND	2.668
7 12	4 5.026	2345	56 58.38N	28 13.78E	57 24N	27 58E	619180	24828	163 20	43 20	ND	ND	ND	2.679
8 12	4 7.361	2335	56 49.26N	28 18.76E	57 15N	28 3E	618997	24829	163 31	43 30	ND	ND	ND	2.691
9 12	4 9.683	2329	56 40.18N	28 23.66E	57 6N	28 8E	618817	24829	163 31	43 30	ND	ND	ND	2.707
10 12	4 12.012	2321	56 31.08N	28 28.53E	56 57N	28 13E	618639	24830	163 36	43 36	ND	ND	ND	2.698
11 12	4 14.331	2320	56 22.00N	28 33.34E	56 48N	28 18E	618466	24830	163 41	43 41	ND	ND	ND	2.708
12 12	4 16.646	2315	56 12.94N	28 38.10E	56 39N	28 23E	618295	24830	163 46	43 46	ND	ND	ND	2.714
13 12	4 18.956	2310	56 3.89N	28 42.81E	56 30N	28 28E	618129	24831	163 50	43 51	ND	ND	ND	2.720
14 12	4 21.271	2315	55 54.82N	28 47.49E	56 21N	28 33E	617963	24831	163 55	43 57	ND	ND	ND	2.714
15 12	4 23.576	2305	55 45.78N	28 52.10E	56 12N	28 37E	617802	24832	164 0	44 2	ND	ND	ND	2.726
16 12	4 25.887	2310	55 36.72N	28 56.69E	56 3N	28 42E	617642	24832	164 5	44 4	ND	ND	ND	2.720
17 12	4 28.196	2310	55 27.66N	29 1.24E	55 54N	28 47E	617486	24832	164 9	44 12	ND	ND	ND	2.720
18 12	4 30.507	2310	55 18.59N	29 5.74E	55 45N	28 51E	617333	24833	164 14	44 17	ND	ND	ND	2.720
19 12	4 32.807	2300	55 9.56N	29 10.19E	55 36N	28 56E	617184	24833	164 19	44 22	ND	ND	ND	2.732
20 12	4 35.116	2310	55 0.49N	29 14.63E	55 26N	29 0E	617036	24833	164 23	44 27	ND	ND	ND	2.720
21 12	4 37.417	2301	54 51.45N	29 19.00E	55 17N	29 5E	616892	24834	164 28	44 32	ND	ND	ND	2.731
22 12	4 39.722	2304	54 42.39N	29 23.35E	55 8N	29 9E	616750	24834	164 32	44 38	ND	ND	ND	2.727
23 12	4 42.021	2300	54 33.34N	29 27.65E	54 59N	29 14E	616612	24834	164 37	44 42	ND	ND	ND	2.732
24 12	4 44.322	2301	54 24.29N	29 31.92E	54 50N	29 18E	616476	24835	164 41	44 48	ND	ND	ND	2.731
25 12	4 46.621	2299	54 15.24N	29 36.15E	54 41N	29 22E	616343	24835	164 46	44 53	ND	ND	ND	2.733
26 12	4 48.921	2300	54 6.19N	29 40.34E	54 32N	29 27E	616213	24835	164 50	44 58	ND	ND	ND	2.732
27 12	4 51.222	2300	53 57.10N	29 44.50E	54 23N	29 31E	616086	24836	164 54	45 2	ND	ND	ND	2.732
28 12	4 53.526	2305	53 48.04N	29 48.64E	54 14N	29 35E	615961	24836	164 58	45 7	ND	ND	ND	2.726
29 12	4 55.826	2300	53 38.97N	29 52.73E	54 5N	29 39E	615840	24836	165 3	45 12	ND	ND	ND	2.732
30 12	4 58.121	2295	53 29.92N	29 56.79E	53 56N	29 44E	615722	24837	165 7	45 17	ND	ND	ND	2.738
31 12	5 0.416	2295	53 20.87N	30 0.80E	53 47N	29 48E	615607	24837	165 11	45 22	ND	ND	ND	2.738
32 12	5 2.717	2300	53 11.79N	30 4.80E	53 38N	29 52E	615494	24837	165 15	45 27	ND	ND	ND	2.732
33 12	5 5.017	2290	53 2.75N	30 8.75E	53 29N	29 56E	615384	24837	165 19	45 32	ND	ND	ND	2.744
34 12	5 7.307	2300	52 53.67N	30 12.68E	53 20N	30 0E	615278	24838	165 23	45 36	ND	ND	ND	2.732
35 12	5 9.602	2295	52 44.60N	30 16.57E	53 11N	30 4E	615173	24838	165 27	45 41	ND	ND	ND	2.738
36 12	5 11.896	2295	52 35.53N	30 20.43E	53 2N	30 8E	615073	24838	165 31	45 46	ND	ND	ND	2.738
37 12	5 14.191	2295	52 26.46N	30 24.26E	52 53N	30 12E	614975	24839	165 35	45 51	ND	ND	ND	2.738
38 12	5 16.486	2295	52 17.39N	30 28.06E	52 43N	30 16E	614879	24839	165 39	45 55	ND	ND	ND	2.738
39 12	5 18.776	2290	52 8.33N	30 31.83E	52 34N	30 19E	614787	24839	165 43	46 0	ND	ND	ND	2.744
40 12	5 21.071	2295	51 59.25N	30 35.57E	52 25N	30 23E	614698	24839	165 47	46 5	ND	ND	ND	2.738
41 12	5 23.366	2295	51 50.16N	30 39.28E	52 16N	30 27E	614611	24839	165 51	46 9	ND	ND	ND	2.738
42 12	5 25.661	2295	51 41.08N	30 43.06E	52 7N	30 31E	614528	24840	165 55	46 14	ND	ND	ND	2.738
43 12	5 27.952	2291	51 32.00N	30 46.81E	51 58N	30 35E	614447	24840	165 58	46 19	ND	ND	ND	2.743
44 12	5 30.246	2294	51 22.92N	30 50.24E	51 49N	30 38E	614369	24840	166 2	46 23	ND	ND	ND	2.739
45 12	5 32.541	2295	51 13.82N	30 53.84E	51 40N	30 42E	614294	24840	166 6	46 28	ND	ND	ND	2.738

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

PASS 720 AFT 10AUG64

FRAME EPHEMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65

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FRM	HR	MI	SEC	DTIM	CAMERA				FORMAT			ALTITUDE		VELOC			AZIMUTH			SUN/			PITCH		ROLL		YAW		SCAN
				MILS	DEG	LAT	DEG	MIN	DEG	MIN	DEG	MIN	FEET	F/S	DEG	MI	DEG	MI	DEG	MI	DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	RATE
46	12	5	34.831	2290	51	4.74N	30	57.41E	51	31N	30	46E	614222	24840	166	9	46	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
47	12	5	37.126	2295	50	55.64N	31	0.95E	51	22N	30	49E	614153	24841	166	13	46	37	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.738
48	12	5	39.416	2290	50	46.56N	31	4.46E	51	13N	30	53E	614087	24841	166	17	46	42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
49	12	5	41.711	2295	50	37.45N	31	4.46E	51	4N	30	56E	614024	24841	166	20	46	46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.738
50	12	5	44.012	2300	50	28.52N	31	11.03E	50	54N	31	8E	613963	24841	166	24	46	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.743
51	12	5	46.593	2291	50	19.23N	31	14.087E	50	45N	31	3E	613906	24841	166	27	46	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
52	12	5	48.593	2290	50	10.13N	31	18.028E	50	36N	31	7E	613852	24841	166	31	46	59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.745
53	12	5	50.882	2289	50	1.04N	31	21.66E	50	27N	31	10E	613801	24842	166	34	47	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
54	12	5	53.171	2290	49	51.95N	31	25.02E	50	18N	31	14E	613752	24842	166	38	47	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
55	12	5	55.461	2290	49	42.84N	31	28.35E	50	9N	31	17E	613707	24842	166	41	47	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
56	12	5	57.751	2290	49	33.74N	31	31.66E	50	0N	31	21E	613664	24842	166	45	47	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
57	12	6	0.041	2290	49	24.63N	31	34.95E	49	51N	31	24E	613625	24842	166	48	47	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
58	12	6	2.337	2296	49	15.50N	31	38.22E	49	42N	31	27E	613589	24842	166	51	47	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.737
59	12	6	4.627	2290	49	6.39N	31	41.45E	49	33N	31	31E	613555	24842	166	55	47	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
60	12	6	6.916	2289	48	57.28N	31	44.67E	49	23N	31	34E	613524	24842	166	58	47	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.745
61	12	6	9.206	2290	48	48.17N	31	47.86E	49	14N	31	37E	613496	24842	167	1	47	38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
62	12	6	11.501	2295	48	39.03N	31	51.04E	49	5N	31	40E	613471	24842	167	4	47	42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
63	12	6	13.791	2290	48	29.91N	31	54.19E	48	56N	31	44E	613449	24843	167	8	47	47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
64	12	6	16.081	2290	48	20.79N	31	57.31E	48	47N	31	47E	613431	24843	167	11	47	51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
65	12	6	18.371	2290	48	11.66N	32	0.41E	48	38N	31	50E	613415	24843	167	14	47	55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
66	12	6	20.666	2295	48	2.52N	32	3.50E	48	29N	31	53E	613403	24843	167	17	47	59	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.738
67	12	6	22.956	2290	47	53.39N	32	6.56E	48	20N	31	56E	613393	24843	167	20	48	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.749
68	12	6	25.242	2286	47	44.27N	32	9.08E	48	10N	31	59E	613386	24843	167	23	48	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
69	12	6	27.532	2290	47	35.14N	32	12.61E	48	1N	32	2E	613382	24843	167	27	48	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.745
70	12	6	29.821	2289	47	26.01N	32	15.61E	47	52N	32	5E	613381	24843	167	30	48	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.750
71	12	6	32.106	2285	47	16.89N	32	18.58E	47	43N	32	8E	613385	24843	167	33	48	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.753
72	12	6	34.389	2282	47	7.78N	32	21.53E	47	34N	32	11E	613388	24843	167	36	48	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.746
73	12	6	36.677	2288	46	58.65N	32	24.46E	47	25N	32	14E	613397	24843	167	39	48	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
74	12	6	38.967	2290	46	49.51N	32	27.38E	47	16N	32	17E	613408	24843	167	42	48	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.750
75	12	6	41.251	2285	46	40.39N	32	30.26E	47	7N	32	20E	613422	24843	167	44	48	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
76	12	6	43.541	2290	46	31.24N	32	33.14E	46	57N	32	23E	613439	24843	167	47	48	39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.756
77	12	6	45.821	2280	46	22.13N	32	35.99E	46	48N	32	26E	613459	24843	167	50	48	42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.738
78	12	6	48.116	2295	46	12.96N	32	38.83E	46	39N	32	29E	613483	24843	167	53	48	46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
79	12	6	50.406	2290	46	3.81N	32	41.65E	46	30N	32	32E	613509	24843	167	56	48	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
80	12	6	52.691	2285	45	54.67N	32	44.43E	46	21N	32	35E	613539	24843	167	59	48	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.750
81	12	6	54.981	2290	45	45.52N	32	47.23E	46	12N	32	38E	613571	24843	168	2	48	58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
82	12	6	57.271	2290	45	36.36N	32	50.00E	46	3N	32	40E	613606	24842	168	5	49	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.743
83	12	6	59.563	2291	45	27.20N	32	52.74E	45	53N	32	43E	613645	24842	168	7	49	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.745
84	12	7	1.852	2289	45	18.04N	32	55.47E	45	44N	32	46E	613686	24842	168	10	49	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
85	12	7	4.142	2290	45	8.87N	32	58.18E	45	35N	32	49E	613731	24842	168	13	49	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
86	12	7	6.432	2290	44	59.71N	33	0.88E	45	26N	32	52E	613778	24842	168	16	49	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
87	12	7	8.722	2290	44	50.54N	33	3.55E	45	17N	32	54E	613829	24842	168	18	49	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.738
88	12	7	11.017	2295	44	41.35N	33	6.22E	45	8N	32	57E	613883	24842	168	21	49	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
89	12	7	13.307	2290	44	32.18N	33	8.86E	44	58N	33	0E	613940	24842	168	24	49	27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744
90	12	7	15.597	2290	44	23.01N	33	11.49E	44	49N	33	2E	614000	24842	168	26	49	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.744

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 720 AFT 18AUG64

FRAME EPHEMERIS MISSION 1809-2

ID 27

LIST DATE 07MAY65 PAGE 132

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	RATE
91	12	7	17.892	2295	44	13.82N	33	14.10E	44	40N	33	5E	614063	24842	168	29	49	34	ND	2.738
92	12	7	20.183	2291	44	4.64N	33	16.69E	44	31N	33	8E	614128	24841	168	31	49	37	ND	2.743
93	12	7	22.477	2294	43	55.45N	33	19.27E	44	22N	33	10E	614198	24841	168	34	49	40	ND	2.739
94	12	7	24.771	2295	43	46.25N	33	21.84E	44	13N	33	13E	614270	24841	168	37	49	44	ND	2.738
95	12	7	27.062	2290	43	37.07N	33	24.38E	44	3N	33	15E	614345	24841	168	39	49	47	ND	2.744
96	12	7	29.361	2300	43	27.85N	33	26.92E	43	54N	33	18E	614424	24841	168	42	49	51	ND	2.752
97	12	7	31.656	2295	43	18.65N	33	29.44E	43	45N	33	21E	614505	24841	168	44	49	54	ND	2.738
98	12	7	33.951	2295	43	9.44N	33	31.94E	43	36N	33	23E	614590	24840	168	47	49	57	ND	2.738
99	12	7	36.241	2290	43	0.26N	33	34.42E	43	27N	33	26E	614678	24840	168	49	50	0	ND	2.744
100	12	7	38.536	2295	42	51.05N	33	36.89E	43	17N	33	28E	614769	24840	168	52	50	4	ND	2.736
101	12	7	40.832	2296	42	41.84N	33	39.35E	43	8N	33	31E	614863	24840	168	54	50	7	ND	2.757
102	12	7	43.122	2290	42	32.65N	33	41.79E	42	59N	33	33E	614960	24840	168	57	50	10	ND	2.744

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 82D AFT 11AUG64

FRAME EPHEMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65

PAGE 133

FRM	Z TIME		DTIM	CAMERA NADR		FORMAT CENTER		ALTITUDE VELOC		AZIMUTH SUN/		PITCH	ROLL	YAW	SCAN RATE					
	HR MI	SEC		DEG	LAT	DEG	LAT	MIN	DEG	FEET	F/S					DEG	MI	DEG	MIN	DEG
1	3	5 29.537	0	75	22.05N	134	49.91E	75	43N	133	32E	658926	24733	137	33	29	26	ND	ND	1.939
2	3	5 32.777	3240	75	12.31N	135	24.59E	75	34N	134	8E	658274	24735	138	9	29	36	ND	ND	1.939
3	3	5 35.423	2645	75	4.38N	135	52.34E	75	26N	134	37E	657745	24736	138	37	29	44	ND	ND	2.375
4	3	5 37.912	2490	74	56.78N	136	18.08E	75	18N	135	4E	657250	24737	139	3	29	52	ND	ND	2.523
5	3	5 40.338	2425	74	49.25N	136	42.60E	75	11N	135	38E	656770	24738	139	28	29	59	ND	ND	2.591
6	3	5 42.728	2390	74	41.87N	137	6.44E	75	4N	136	55E	656299	24739	139	52	30	6	ND	ND	2.629
7	3	5 45.104	2376	74	34.49N	137	29.77E	74	57N	135	19E	655833	24740	140	15	30	14	ND	ND	2.644
8	3	5 47.473	2369	74	27.08N	137	52.66E	74	49N	136	43E	655371	24742	140	39	30	21	ND	ND	2.652
9	3	5 49.827	2355	74	19.68N	138	15.05E	74	42N	137	7E	654915	24743	141	1	30	28	ND	ND	2.668
10	3	5 52.178	2350	74	12.25N	138	37.06E	74	35N	137	38E	654468	24744	141	24	30	35	ND	ND	2.674
11	3	5 54.527	2350	74	4.79N	138	58.72E	74	27N	137	53E	654009	24745	141	46	30	42	ND	ND	2.674
12	3	5 56.868	2341	73	57.32N	139	19.96E	74	20N	138	15E	653561	24746	142	7	30	49	ND	ND	2.684
13	3	5 59.207	2339	73	49.81N	139	40.85E	74	12N	138	37E	653117	24747	142	28	30	56	ND	ND	2.686
14	3	6 1.548	2340	73	42.27N	140	1.45E	74	5N	138	59E	652673	24748	142	49	31	3	ND	ND	2.685
15	3	6 3.888	2340	73	34.69N	140	21.71E	73	58N	139	20E	652233	24749	143	10	31	10	ND	ND	2.685
16	3	6 6.223	2335	73	27.09N	140	41.63E	73	50N	139	41E	651796	24750	143	30	31	17	ND	ND	2.691
17	3	6 8.553	2330	73	19.48N	141	1.21E	73	42N	140	1E	651361	24751	143	50	31	24	ND	ND	2.697
18	3	6 10.883	2330	73	11.83N	141	20.49E	73	35N	140	21E	650930	24752	144	9	31	31	ND	ND	2.697
19	3	6 13.207	2325	73	4.18N	141	39.43E	73	27N	140	41E	650501	24753	144	29	31	38	ND	ND	2.702
20	3	6 15.532	2325	72	56.49N	141	58.10E	73	20N	141	1E	650075	24754	144	48	31	45	ND	ND	2.702
21	3	6 17.853	2320	72	48.78N	142	16.44E	73	12N	141	39E	649651	24755	145	6	31	51	ND	ND	2.708
22	3	6 20.167	2315	72	41.06N	142	34.48E	73	4N	141	58E	649232	24756	145	25	31	58	ND	ND	2.714
23	3	6 22.483	2314	72	33.31N	142	52.26E	72	57N	141	58E	648813	24757	145	43	32	5	ND	ND	2.713
24	3	6 24.798	2314	72	25.54N	143	9.76E	72	49N	142	16E	648398	24758	146	0	32	12	ND	ND	2.715
25	3	6 27.112	2315	72	17.74N	143	27.01E	72	41N	142	34E	647985	24759	146	18	32	19	ND	ND	2.714
26	3	6 29.417	2305	72	9.95N	143	43.94E	72	34N	142	52E	647576	24760	146	35	32	26	ND	ND	2.726
27	3	6 31.723	2305	72	2.12N	144	8.63E	72	26N	143	9E	647169	24761	146	52	32	33	ND	ND	2.726
28	3	6 34.033	2311	71	54.26N	144	17.12E	72	18N	143	26E	646763	24762	147	9	32	39	ND	ND	2.719
29	3	6 36.338	2304	71	46.39N	144	33.32E	72	10N	143	43E	646361	24763	147	26	32	46	ND	ND	2.727
30	3	6 38.638	2300	71	38.51N	144	49.26E	72	2N	144	8E	645962	24764	147	42	32	53	ND	ND	2.732
31	3	6 40.938	2300	71	30.61N	145	4.98E	71	55N	144	16E	645565	24764	147	58	33	0	ND	ND	2.732
32	3	6 43.242	2305	71	22.67N	145	20.50E	71	47N	144	33E	645169	24765	148	14	33	3	ND	ND	2.726
33	3	6 45.544	2301	71	14.72N	145	35.79E	71	39N	144	48E	644777	24766	148	29	33	13	ND	ND	2.731
34	3	6 47.843	2299	71	6.75N	145	50.85E	71	31N	145	4E	644387	24767	148	44	33	20	ND	ND	2.733
35	3	6 50.143	2300	70	58.76N	146	5.70E	71	23N	145	20E	643999	24768	149	0	33	27	ND	ND	2.732
36	3	6 52.447	2305	70	50.73N	146	20.37E	71	15N	145	35E	643613	24769	149	15	33	33	ND	ND	2.726
37	3	6 54.738	2291	70	42.72N	146	34.76E	71	7N	145	50E	643231	24770	149	29	33	40	ND	ND	2.743
38	3	6 57.032	2294	70	34.69N	146	48.97E	70	59N	146	5E	642852	24771	149	44	33	47	ND	ND	2.739
39	3	6 59.327	2295	70	26.63N	147	2.99E	70	51N	146	19E	642474	24772	149	58	33	53	ND	ND	2.738
40	3	7 1.617	2290	70	18.57N	147	16.78E	70	43N	146	34E	642099	24773	150	12	34	0	ND	ND	2.744
41	3	7 3.903	2286	70	10.51N	147	30.37E	70	35N	146	48E	641728	24774	150	26	34	7	ND	ND	2.749
42	3	7 6.192	2289	70	2.41N	147	43.88E	70	27N	147	2E	641358	24775	150	40	34	13	ND	ND	2.745
43	3	7 8.478	2285	69	54.31N	147	57.02E	70	19N	147	16E	640990	24776	151	53	34	20	ND	ND	2.750
44	3	7 10.768	2290	69	46.18N	148	10.09E	70	11N	147	29E	640625	24777	151	6	34	27	ND	ND	2.744
45	3	7 13.053	2285	69	38.04N	148	22.96E	70	3N	147	43E	640263	24777	151	20	34	33	ND	ND	2.750

TOP SECRET

HANDLE VIA
TAI FNT-KFVHOL F

HANDLE VIA
Talent-Keyhole
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 820 AFT 11AUG64

FRAME EPHEMERIS

MISSION 1089-2

ID 27

LIST DATE 07MAY65

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FRM	2 TIME	DTIM	CAMERA	NADIR	FORMAT	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI SEC	MILS	DEG MIN	DEG MIN	LONG	MIN DEG	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
46	3	7 15.338	2285	69 29.89N	148 35.67E	639903	24778	151 33	34 40	ND	ND	ND	2.750
47	3	7 17.617	2280	69 21.74N	148 48.17E	639546	24779	151 45	34 46	ND	ND	ND	2.756
48	3	7 19.896	2281	69 13.57N	149 0.52E	639192	24779	151 58	34 53	ND	ND	ND	2.755
49	3	7 22.183	2284	69 5.37N	149 12.72E	638839	24780	152 10	34 59	ND	ND	ND	2.751
50	3	7 24.458	2276	68 57.19N	149 24.72E	638490	24781	152 23	35 6	ND	ND	ND	2.757
51	3	7 26.737	2279	68 48.98N	149 36.59E	638143	24782	152 35	35 12	ND	ND	ND	2.756
52	3	7 29.018	2280	68 40.74N	149 48.31E	637798	24783	152 47	35 19	ND	ND	ND	2.756
53	3	7 31.298	2280	68 32.50N	149 59.88E	637454	24784	152 59	35 25	ND	ND	ND	2.756
54	3	7 33.572	2275	68 24.26N	150 11.28E	637115	24784	153 10	35 32	ND	ND	ND	2.762
55	3	7 35.849	2276	68 16.00N	150 22.54E	636777	24785	153 22	35 38	ND	ND	ND	2.761
56	3	7 38.122	2274	68 7.73N	150 33.64E	636442	24786	153 33	35 45	ND	ND	ND	2.763
57	3	7 40.393	2270	67 59.46N	150 44.60E	636110	24787	153 44	35 51	ND	ND	ND	2.768
58	3	7 42.662	2270	67 51.18N	150 55.41E	635781	24787	153 56	35 58	ND	ND	ND	2.768
59	3	7 44.929	2266	67 42.90N	151 6.07E	635454	24788	154 6	36 4	ND	ND	ND	2.773
60	3	7 47.202	2274	67 34.58N	151 16.64E	635129	24789	154 17	36 11	ND	ND	ND	2.763
61	3	7 49.473	2270	67 26.26N	151 27.06E	634806	24790	154 28	36 17	ND	ND	ND	2.768
62	3	7 51.742	2270	67 17.93N	151 37.35E	634486	24791	154 39	36 23	ND	ND	ND	2.768
63	3	7 54.008	2265	67 9.60N	151 47.50E	634169	24791	154 49	36 30	ND	ND	ND	2.774
64	3	7 56.277	2270	67 1.24N	151 57.54E	633853	24792	154 59	36 36	ND	ND	ND	2.768
65	3	7 58.542	2265	66 52.89N	152 7.44E	633541	24793	155 9	36 43	ND	ND	ND	2.774
66	3	0.808	2265	66 44.53N	152 17.23E	633231	24793	155 19	36 49	ND	ND	ND	2.768
67	3	3.077	2270	66 36.14N	152 26.92E	632923	24794	155 29	36 55	ND	ND	ND	2.780
68	3	5.338	2260	66 27.77N	152 36.46E	632618	24795	155 39	37 2	ND	ND	ND	2.780
69	3	7.598	2260	66 19.39N	152 45.88E	632316	24796	155 49	37 8	ND	ND	ND	2.780
70	3	9.857	2260	66 11.00N	152 55.19E	632014	24796	155 58	37 14	ND	ND	ND	2.780
71	3	12.122	2260	66 2.59N	153 4.41E	631718	24797	156 8	37 20	ND	ND	ND	2.774
72	3	14.383	2260	65 54.17N	153 13.51E	631423	24798	156 17	37 27	ND	ND	ND	2.780
73	3	16.638	2255	65 45.77N	153 22.48E	631130	24798	156 26	37 33	ND	ND	ND	2.786
74	3	18.897	2260	65 37.34N	153 31.37E	630840	24799	156 36	37 39	ND	ND	ND	2.780
75	3	21.148	2251	65 28.93N	153 40.12E	630554	24800	156 45	37 45	ND	ND	ND	2.791
76	3	23.407	2259	65 20.49N	153 48.80E	630269	24800	156 53	37 52	ND	ND	ND	2.781
77	3	25.662	2255	65 12.05N	153 57.37E	629986	24801	157 2	37 58	ND	ND	ND	2.786
78	3	27.913	2251	65 3.61N	154 5.83E	629707	24802	157 11	38 4	ND	ND	ND	2.791
79	3	30.162	2249	64 55.17N	154 14.19E	629430	24802	157 20	38 10	ND	ND	ND	2.794
80	3	32.417	2255	64 46.70N	154 22.48E	629155	24803	157 28	38 16	ND	ND	ND	2.786
81	3	21.213	48795	61 41.43N	157 1.50E	623801	24816	160 12	40 27	ND	ND	ND	0.129
82	3	24.322	3110	61 29.51N	157 10.47E	623499	24817	160 21	40 35	ND	ND	ND	2.028
83	3	26.858	2536	61 19.78N	157 17.70E	623256	24817	160 29	40 42	ND	ND	ND	2.478
84	3	29.237	2379	61 10.65N	157 24.40E	623031	24818	160 36	40 48	ND	ND	ND	2.641
85	3	31.558	2320	61 1.73N	157 30.87E	622815	24819	160 42	40 54	ND	ND	ND	2.708
86	3	33.843	2285	60 52.94N	157 37.18E	622605	24819	160 49	41 0	ND	ND	ND	2.758
87	3	36.117	2275	60 44.19N	157 43.40E	622398	24819	160 55	41 6	ND	ND	ND	2.762
88	3	38.383	2265	60 35.46N	157 49.53E	622194	24820	161 1	41 12	ND	ND	ND	2.774
89	3	40.634	2251	60 26.79N	157 55.56E	621995	24820	161 8	41 18	ND	ND	ND	2.791
90	3	42.889	2255	60 18.09N	158 1.55E	621798	24821	161 14	41 23	ND	ND	ND	2.786

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 820 AFT 11AUG64

FRAME EPHMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65 PAGE 135

FRM	Z TIME	DTIM	CAMERA	NADR	FORMAT	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI SEC	MILS	DEG MIN	DEG LONG	DEG LAT	MIN DEG LONG	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
91	3 9 45.144	2255	60 9.39N	158 7.47E	60 35N 157 40E	621603	24821	161 20	41 29	ND	ND	ND	2.786
92	3 9 47.397	2254	60 8.69N	158 13.34E	60 26N 157 54E	621410	24822	161 26	41 35	ND	ND	ND	2.788
93	3 9 49.643	2245	59 52.01N	158 19.13E	60 18N 158 0E	621221	24822	161 32	41 41	ND	ND	ND	2.799
94	3 9 51.888	2245	59 43.35N	158 24.87E	60 0N 158 0E	621035	24823	161 38	41 46	ND	ND	ND	2.799
95	3 9 54.133	2245	59 34.65N	158 30.55E	60 0N 158 12E	620851	24823	161 44	41 52	ND	ND	ND	2.799
96	3 9 56.378	2245	59 25.96N	158 36.17E	60 0N 158 18E	620670	24823	161 50	41 58	ND	ND	ND	2.805
97	3 9 58.617	2240	59 17.29N	158 41.73E	60 43N 158 24E	620491	24824	161 55	42 3	ND	ND	ND	2.805
98	3 10 0.857	2240	59 8.61N	158 47.24E	60 34N 158 29E	620316	24824	162 1	42 15	ND	ND	ND	2.799
99	3 10 3.103	2245	58 59.90N	158 52.72E	60 26N 158 35E	620142	24825	162 7	42 15	ND	ND	ND	2.799
100	3 10 5.348	2245	58 51.19N	158 58.14E	60 17N 158 41E	619971	24825	162 12	42 20	ND	ND	ND	2.805
101	3 10 7.588	2240	58 42.49N	159 3.50E	60 0N 158 46E	619803	24825	162 18	42 26	ND	ND	ND	2.805
102	3 10 9.827	2245	58 33.80N	159 8.81E	60 0N 158 52E	619638	24826	162 23	42 32	ND	ND	ND	2.805
103	3 10 12.063	2235	58 25.11N	159 14.86E	60 51N 158 57E	619475	24826	162 29	42 37	ND	ND	ND	2.805
104	3 10 14.303	2240	58 16.40N	159 19.27E	60 42N 159 2E	619315	24827	162 34	42 43	ND	ND	ND	2.805
105	3 10 16.542	2240	58 7.69N	159 24.44E	60 34N 159 8E	619157	24827	162 40	42 48	ND	ND	ND	2.811
106	3 10 18.777	2235	57 58.99N	159 29.55E	60 25N 159 13E	619002	24827	162 45	42 54	ND	ND	ND	2.805
107	3 10 21.018	2240	57 50.26N	159 34.63E	60 16N 159 18E	618850	24828	162 50	42 59	ND	ND	ND	2.805
108	3 10 23.258	2240	57 41.54N	159 39.66E	60 0N 159 23E	618700	24829	163 5	43 5	ND	ND	ND	2.811
109	3 10 25.492	2235	57 32.83N	159 44.63E	60 0N 159 28E	618552	24829	163 10	43 10	ND	ND	ND	2.811
110	3 10 27.728	2235	57 24.11N	159 49.56E	60 50N 159 33E	618408	24829	163 6	43 16	ND	ND	ND	2.811
111	3 10 29.963	2235	57 15.39N	159 54.45E	60 41N 159 38E	618266	24829	163 11	43 21	ND	ND	ND	2.811
112	3 10 32.197	2235	57 6.66N	159 59.29E	60 33N 159 43E	618127	24830	163 16	43 27	ND	ND	ND	2.811
113	3 10 34.433	2235	56 57.93N	160 4.10E	60 24N 159 48E	617991	24830	163 21	43 32	ND	ND	ND	2.811
114	3 10 36.667	2235	56 49.20N	160 8.86E	60 15N 159 53E	617856	24830	163 26	43 37	ND	ND	ND	2.818
115	3 10 38.897	2230	56 40.48N	160 13.57E	60 6N 159 58E	617725	24831	163 30	43 43	ND	ND	ND	2.818
116	3 10 41.134	2236	56 31.74N	160 18.25E	60 58N 160 3E	617596	24831	163 35	43 48	ND	ND	ND	2.813
117	3 10 43.367	2234	56 23.00N	160 22.89E	60 49N 160 8E	617471	24831	163 40	43 53	ND	ND	ND	2.811
118	3 10 45.603	2235	56 14.25N	160 27.49E	60 40N 160 12E	617346	24831	163 45	43 59	ND	ND	ND	2.811
119	3 10 47.838	2235	55 5.49N	160 32.05E	60 31N 160 17E	617226	24832	163 50	44 4	ND	ND	ND	2.811
120	3 10 50.072	2235	55 56.74N	160 36.57E	60 23N 160 22E	617107	24832	163 54	44 9	ND	ND	ND	2.811
121	3 10 52.303	2230	55 47.99N	160 41.05E	60 14N 160 26E	616992	24832	163 59	44 15	ND	ND	ND	2.818
122	3 10 54.537	2235	55 39.23N	160 45.50E	60 5N 160 31E	616879	24833	164 3	44 20	ND	ND	ND	2.811
123	3 10 56.772	2235	55 30.46N	160 49.91E	60 56N 160 35E	616769	24833	164 8	44 25	ND	ND	ND	2.816
124	3 10 59.004	2231	55 21.71N	160 54.27E	60 48N 160 40E	616661	24833	164 13	44 30	ND	ND	ND	2.813
125	3 11 1.237	2234	55 12.94N	160 58.61E	60 39N 160 44E	616556	24833	164 17	44 36	ND	ND	ND	2.811
126	3 11 3.473	2235	55 4.16N	161 2.91E	60 30N 160 49E	616453	24834	164 21	44 41	ND	ND	ND	2.818
127	3 11 5.702	2230	55 55.40N	161 7.17E	60 21N 160 53E	616354	24834	164 26	44 46	ND	ND	ND	2.818
128	3 11 7.933	2230	54 46.63N	161 11.39E	60 13N 160 57E	616257	24834	164 30	44 51	ND	ND	ND	2.811
129	3 11 10.167	2235	54 37.84N	161 15.59E	60 4N 161 2E	616162	24834	164 35	44 56	ND	ND	ND	2.818
130	3 11 12.397	2230	54 29.07N	161 19.74E	60 55N 161 6E	616070	24835	164 39	45 2	ND	ND	ND	2.818
131	3 11 14.628	2230	54 20.29N	161 23.86E	60 46N 161 10E	615981	24835	164 43	45 7	ND	ND	ND	2.811
132	3 11 16.862	2235	54 11.50N	161 27.96E	60 37N 161 14E	615895	24835	164 47	45 12	ND	ND	ND	2.818
133	3 11 19.093	2230	54 2.71N	161 32.01E	60 29N 161 18E	615811	24835	164 52	45 17	ND	ND	ND	2.818
134	3 11 21.322	2230	53 53.93N	161 36.03E	60 20N 161 23E	615731	24835	164 56	45 22	ND	ND	ND	2.818
135	3 11 23.553	2230	53 45.14N	161 40.03E	60 11N 161 27E	615652	24836	165 0	45 27	ND	ND	ND	2.818

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS	82D	AFT	11AUG64	FRM	Z TIME	DTIM	CAMERA			FORMAT CENTER			ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN		
							LAT	DEG	MIN	LAT	MIN	DEG									MIN	FEET
136	3	11	25.782	2230	53	36.35N	161	43.98E	54	2N	161	31E	615576	24836	165	4	45	32	ND	ND	ND	2.818
137	3	11	28.813	2230	53	27.55N	161	47.91E	53	54N	161	35E	615504	24836	165	8	45	37	ND	ND	ND	2.818
138	3	11	30.243	2231	53	18.75N	161	51.81E	53	45N	161	39E	615434	24836	165	12	45	42	ND	ND	ND	2.816
139	3	11	32.478	2234	53	9.94N	161	55.69E	53	36N	161	43E	615366	24836	165	16	45	47	ND	ND	ND	2.813
140	3	11	34.707	2230	53	1.13N	161	59.52E	53	27N	161	47E	615301	24837	165	20	45	52	ND	ND	ND	2.818
141	3	11	36.933	2225	52	52.34N	162	3.32E	53	18N	161	50E	615239	24837	165	24	45	57	ND	ND	ND	2.824
142	3	11	39.162	2230	52	43.54N	162	7.18E	53	10N	161	54E	615180	24837	165	28	46	2	ND	ND	ND	2.818
143	3	11	41.397	2235	52	34.70N	162	10.86E	53	1N	161	58E	615123	24837	165	32	46	7	ND	ND	ND	2.811
144	3	11	43.628	2230	52	25.89N	162	14.58E	52	52N	162	2E	615069	24837	165	36	46	12	ND	ND	ND	2.818
145	3	11	45.857	2230	52	17.07N	162	18.27E	52	43N	162	6E	615018	24837	165	39	46	17	ND	ND	ND	2.818
146	3	11	48.088	2230	52	8.25N	162	21.93E	52	34N	162	10E	614969	24837	165	43	46	21	ND	ND	ND	2.818
147	3	11	50.313	2226	51	59.44N	162	25.56E	52	26N	162	13E	614923	24838	165	47	46	26	ND	ND	ND	2.823
148	3	11	52.548	2234	51	50.60N	162	29.18E	52	17N	162	17E	614880	24838	165	51	46	31	ND	ND	ND	2.813
149	3	11	54.777	2230	51	41.77N	162	32.76E	52	8N	162	21E	614840	24838	165	54	46	36	ND	ND	ND	2.818
150	3	11	57.004	2226	51	32.96N	162	36.31E	51	59N	162	24E	614802	24838	165	58	46	41	ND	ND	ND	2.823
151	3	11	59.232	2229	51	24.13N	162	39.83E	51	50N	162	28E	614767	24838	166	2	46	45	ND	ND	ND	2.819
152	3	12	1.463	2230	51	15.29N	162	43.33E	51	41N	162	31E	614735	24838	166	5	46	50	ND	ND	ND	2.818
153	3	12	3.692	2230	51	6.45N	162	46.81E	51	33N	162	35E	614705	24838	166	9	46	55	ND	ND	ND	2.818
154	3	12	5.923	2230	50	57.61N	162	50.26E	51	24N	162	38E	614679	24838	166	12	47	0	ND	ND	ND	2.818
155	3	12	8.153	2231	50	48.76N	162	53.69E	51	15N	162	42E	614655	24838	166	16	47	4	ND	ND	ND	2.816
156	3	12	10.388	2234	50	39.90N	162	57.09E	51	6N	162	45E	614633	24838	166	19	47	9	ND	ND	ND	2.813

FRAME EPHMERIS
MISSION 1089-2

ID 27

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TOP SECRET
SPECIAL HANDLING REQUIRED

MISSION 1809-2

ID 27

LIST DATE 87MAY65

PAGE 137

TCS 84818-65

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

FRM 850 AFT 11AUG64

FRAME EPHMERIS

MISSION 1809-2

ID 27

LIST DATE 87MAY65

PAGE 137

FRM	Z TIME	HR MI SEC	DTIM	CAMERA		NADIR		FORMAT CENTER		ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN	
				LAT	DEG MIN	DEG	MIN	DEG	MIN									FEET
1	7 39	53.073	0	66	55.57N	83	37.69E	67	21N	83	21E	632532	24795	155	6	36	44	1.985
2	7 39	56.238	3165	66	43.89N	83	51.38E	67	0N	83	21E	632115	24796	155	20	36	53	1.985
3	7 39	58.813	2575	66	34.36N	84	2.35E	67	0N	83	32E	631788	24797	155	31	37	0	2.440
4	7 40	1.225	2411	66	25.43N	84	12.50E	66	51N	83	43E	631469	24797	155	42	37	7	2.606
5	7 40	3.568	2344	66	16.74N	84	22.23E	66	42N	83	53E	631169	24798	155	52	37	14	2.681
6	7 40	5.884	2315	66	8.14N	84	31.74E	66	33N	84	2E	630876	24799	156	2	37	20	2.714
7	7 40	8.185	2301	65	59.59N	84	41.07E	66	25N	84	12E	630587	24799	156	11	37	27	2.731
8	7 40	10.479	2294	65	51.05N	84	50.27E	66	16N	84	22E	630319	24800	156	21	37	33	2.739
9	7 40	12.759	2280	65	42.54N	84	59.30E	66	0N	84	31E	630019	24801	156	30	37	40	2.756
10	7 40	15.043	2285	65	34.02N	85	8.24E	65	59N	84	40E	629739	24801	156	39	37	46	2.750
11	7 40	17.318	2275	65	25.52N	85	17.05E	65	51N	84	49E	629463	24802	156	48	37	52	2.762
12	7 40	19.589	2270	65	17.02N	85	25.74E	65	42N	84	58E	629190	24803	156	57	37	59	2.768
13	7 40	21.858	2270	65	8.52N	85	34.33E	65	34N	85	7E	628919	24803	157	6	38	5	2.768
14	7 40	24.128	2270	65	0.01N	85	42.82E	65	25N	85	16E	628651	24804	157	15	38	11	2.768
15	7 40	26.394	2265	64	51.51N	85	51.19E	65	17N	85	25E	628123	24805	157	32	38	24	2.774
16	7 40	28.658	2265	64	42.99N	85	59.48E	65	0N	85	33E	628123	24805	157	32	38	24	2.774
17	7 40	30.924	2265	64	34.47N	86	7.67E	65	51N	85	42E	627863	24806	157	40	38	30	2.780
18	7 40	33.184	2260	64	25.96N	86	15.75E	64	51N	85	50E	627605	24806	157	48	38	36	2.780
19	7 40	35.443	2260	64	17.44N	86	23.65E	64	43N	85	58E	627350	24807	157	57	38	42	2.780
20	7 40	37.703	2260	64	8.91N	86	31.65E	64	34N	86	7E	627099	24808	158	5	38	49	2.780
21	7 40	39.958	2255	63	51.87N	86	39.46E	64	26N	86	15E	626849	24808	158	13	38	55	2.786
22	7 40	42.214	2255	63	43.32N	86	47.18E	64	17N	86	23E	626502	24809	158	21	39	1	2.786
23	7 40	44.474	2260	63	34.76N	87	2.40E	64	0N	86	38E	626114	24810	158	37	39	13	2.780
24	7 40	46.733	2260	63	26.22N	87	9.86E	63	52N	86	46E	625875	24811	158	44	39	20	2.788
25	7 40	48.984	2251	63	17.67N	87	17.25E	63	43N	86	54E	625638	24811	158	52	39	26	2.788
26	7 40	51.238	2254	63	9.18N	87	24.57E	63	35N	87	1E	625403	24812	158	59	39	32	2.793
27	7 40	53.493	2255	63	0.55N	87	31.79E	63	26N	87	9E	625172	24812	159	7	39	38	2.793
28	7 40	55.743	2250	62	51.98N	87	38.94E	63	18N	87	16E	624943	24813	159	14	39	44	2.793
29	7 40	57.993	2250	62	43.42N	87	46.02E	63	9N	87	23E	624716	24813	159	21	39	50	2.793
30	7 41	0.243	2250	62	34.84N	87	53.02E	63	0N	87	31E	624492	24814	159	29	39	56	2.793
31	7 41	2.493	2250	62	26.24N	87	59.96E	62	52N	87	38E	624269	24814	159	36	40	2	2.786
32	7 41	4.748	2255	62	17.65N	88	6.81E	62	43N	87	45E	624050	24815	159	43	40	8	2.793
33	7 41	6.998	2250	62	9.07N	88	13.59E	62	35N	87	52E	623834	24815	159	50	40	14	2.793
34	7 41	9.243	2245	62	0.48N	88	28.29E	62	26N	87	59E	623620	24816	159	57	40	20	2.798
35	7 41	11.489	2246	61	51.86N	88	26.96E	62	17N	88	6E	623347	24816	160	4	40	26	2.799
36	7 41	13.743	2254	61	43.26N	88	33.52E	62	9N	88	12E	623198	24817	160	10	40	32	2.798
37	7 41	15.988	2245	61	34.65N	88	40.03E	62	0N	88	19E	622992	24817	160	17	40	38	2.800
38	7 41	18.234	2246	61	26.04N	88	46.47E	61	52N	88	26E	622788	24818	160	24	40	44	2.800
39	7 41	20.479	2244	61	17.41N	88	52.05E	61	43N	88	32E	622587	24818	160	30	40	50	2.799
40	7 41	22.729	2250	61	8.78N	88	59.16E	61	34N	88	39E	622388	24819	160	37	40	56	2.799
41	7 41	24.974	2245	61	0.15N	89	5.41E	61	26N	88	45E	622191	24819	160	43	41	2	2.805
42	7 41	27.219	2245	60	51.54N	89	11.58E	61	17N	88	52E	621998	24820	160	50	41	8	2.805
43	7 41	29.458	2248	60	42.90N	89	17.71E	61	9N	88	58E	621807	24820	160	56	41	13	2.805
44	7 41	31.703	2245	60	34.27N	89	23.77E	61	0N	89	4E	621618	24821	161	2	41	19	2.805

TOP SECRET
HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 85D AFT 11AUG64
FRAME EPHEMERIS MISSION 1009-2
ID 27
LIST DATE 07MAY65
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FRM	2 TIME	DTM	CAMERA	NADR	FORMAT	CENTER	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN					
HR	MI	SEC	LAT	DEG	MIN	DEG	FEET	F/S	DEG	MI	DEG	MIN	DEG	RATE					
46	7	41	36.184	60	23.63N	89	29.76E	60	51N	89	10E	621432	24821	161	9	41	25	2.805	
47	7	41	38.418	2235	60	17.02N	89	35.69E	60	43N	89	16E	621249	24822	161	15	41	31	2.811
48	7	41	40.663	2245	60	8.35N	89	41.58E	60	34N	89	23E	621068	24822	161	21	41	37	2.799
49	7	41	42.903	2240	59	59.70N	89	47.41E	60	25N	89	29E	620898	24822	161	27	41	43	2.805
50	7	41	45.139	2235	59	51.07N	89	53.17E	60	17N	89	34E	620715	24823	161	33	41	48	2.811
51	7	41	47.384	2245	59	42.38N	89	58.89E	60	08N	89	40E	620541	24823	161	39	41	54	2.799
52	7	41	49.623	2240	59	33.72N	89	4.55E	59	59N	89	46E	620370	24824	161	44	42	0	2.805
53	7	41	51.858	2235	59	25.07N	89	10.15E	59	51N	89	52E	620203	24824	161	50	42	6	2.811
54	7	41	54.099	2240	59	16.39N	90	15.71E	59	42N	89	58E	620037	24825	161	56	42	11	2.805
55	7	41	56.339	2240	59	7.71N	90	21.21E	59	33N	90	3E	619874	24825	162	2	42	23	2.805
56	7	41	58.578	2240	58	59.03N	90	26.67E	59	25N	90	9E	619714	24825	162	7	42	23	2.811
57	7	42	0.813	2235	58	50.35N	90	32.06E	59	16N	90	14E	619556	24826	162	13	42	29	2.805
58	7	42	3.054	2240	58	41.66N	90	37.42E	59	7N	90	20E	619401	24826	162	18	42	34	2.811
59	7	42	5.288	2235	58	32.98N	90	42.71E	58	59N	90	25E	619248	24826	162	24	42	40	2.811
60	7	42	7.523	2235	58	24.29N	90	47.96E	58	58N	90	31E	619098	24827	162	29	42	45	2.811
61	7	42	9.759	2230	58	15.60N	90	53.15E	58	41N	90	36E	618951	24827	162	35	42	51	2.805
62	7	42	11.998	2240	58	6.89N	90	58.32E	58	33N	90	41E	618806	24828	162	40	42	57	2.818
63	7	42	14.229	2230	57	58.20N	91	3.41E	58	24N	90	47E	618664	24828	162	45	43	2	2.818
64	7	42	16.469	2240	57	49.48N	91	8.48E	58	15N	90	52E	618524	24828	162	51	43	8	2.805
65	7	42	18.703	2235	57	40.77N	91	13.50E	58	7N	90	57E	618387	24829	162	56	43	13	2.811
66	7	42	20.938	2235	57	32.06N	91	18.47E	57	58N	91	2E	618253	24829	163	1	43	19	2.811
67	7	42	23.169	2231	57	23.36N	91	23.39E	57	49N	91	7E	618122	24829	163	6	43	25	2.816
68	7	42	25.408	2239	57	14.62N	91	28.28E	57	40N	91	12E	617992	24830	163	11	43	30	2.806
69	7	42	27.640	2231	57	5.91N	91	33.12E	57	32N	91	17E	617865	24830	163	16	43	36	2.816
70	7	42	29.878	2239	56	57.17N	91	37.92E	57	23N	91	22E	617741	24830	163	21	43	41	2.806
71	7	42	32.113	2235	56	48.43N	91	42.68E	57	14N	91	27E	617620	24830	163	26	43	47	2.811
72	7	42	34.345	2231	56	39.71N	91	47.39E	57	6N	91	32E	617501	24831	163	31	43	52	2.816
73	7	42	36.578	2234	56	30.97N	91	52.06E	56	57N	91	37E	617385	24831	163	36	43	57	2.813
74	7	42	38.813	2230	56	22.25N	91	56.70E	56	48N	91	41E	617271	24831	163	40	44	3	2.811
75	7	42	41.043	2235	56	13.50N	92	1.29E	56	39N	91	46E	617161	24832	163	45	44	8	2.818
76	7	42	43.278	2235	56	4.74N	92	5.84E	56	31N	91	51E	617053	24832	163	50	44	14	2.818
77	7	42	45.509	2230	55	56.00N	92	10.36E	55	22N	91	55E	616947	24832	163	55	44	19	2.816
78	7	42	47.739	2231	55	47.26N	92	14.83E	56	13N	92	0E	616844	24832	163	59	44	24	2.813
79	7	42	49.974	2234	55	38.50N	92	19.27E	56	4N	92	5E	616744	24833	164	4	44	30	2.813
80	7	42	52.208	2235	55	29.73N	92	23.68E	55	56N	92	9E	616644	24833	164	8	44	35	2.811
81	7	42	54.438	2230	55	20.98N	92	28.04E	55	47N	92	14E	616550	24833	164	13	44	40	2.818
82	7	42	56.669	2231	55	12.22N	92	32.36E	55	38N	92	18E	616458	24833	164	17	44	46	2.816
83	7	42	58.903	2234	55	3.45N	92	36.66E	55	29N	92	22E	616368	24834	164	22	44	51	2.813
84	7	43	1.134	2230	54	54.68N	92	40.92E	55	21N	92	27E	616282	24834	164	26	44	56	2.818
85	7	43	3.363	2230	54	45.92N	92	45.14E	55	12N	92	31E	616197	24834	164	31	45	1	2.818
86	7	43	5.599	2235	54	37.13N	92	49.33E	55	3N	92	35E	616115	24834	164	35	45	7	2.811
87	7	43	7.828	2230	54	28.36N	92	53.48E	54	54N	92	40E	616036	24834	164	39	45	12	2.818
88	7	43	10.059	2230	54	19.58N	92	57.68E	54	46N	92	44E	615960	24835	164	43	45	17	2.818
89	7	43	12.288	2230	54	10.80N	93	1.68E	54	37N	92	48E	615886	24835	164	48	45	22	2.818
90	7	43	14.519	2230	54	2.02N	93	5.74E	54	28N	92	52E	615815	24835	164	52	45	27	2.818

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 85D AFT 11AUG64

FRAME EPHEMERIS
MISSION 1089-2

ID 27

LIST DATE 07MAY65
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FRM	Z TIME	HR MI SEC	DTM	DEG MIN	LAT	DEG MIN	LONG	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	7 43	16.753	2235	53 53.022N	93	9 7.6E	54	19N	92	56E	615747	24835	164	56	45	33	ND	2.811
92	7 45	46.028	49275	43 59.53N	96	41.60E	44	26N	96	33E	617418	24832	168	33	50	32	ND	0.042
93	7 45	49.153	3125	43 47.01N	96	45.10E	44	13N	96	36E	617580	24832	168	36	50	37	ND	2.011
94	7 45	51.698	2545	43 36.81N	96	47.92E	44	3N	96	39E	617722	24832	168	39	50	42	ND	2.469
95	7 45	54.884	2386	43 27.25N	96	50.55E	43	54N	96	42E	617859	24831	168	42	50	46	ND	2.633
96	7 45	56.409	2325	43 17.93N	96	53.10E	43	44N	96	44E	617995	24831	168	44	50	49	ND	2.702
97	7 45	58.703	2294	43 8.73N	96	55.60E	43	35N	96	47E	618133	24831	168	47	50	53	ND	2.739
98	7 46	0.963	2280	42 59.59N	96	58.07E	43	26N	96	49E	618273	24830	168	49	50	57	ND	2.756
99	7 46	3.253	2270	42 58.49N	97	0.51E	43	17N	96	52E	618416	24830	168	52	51	0	ND	2.768
100	7 46	5.519	2265	42 41.40N	97	2.94E	43	8N	96	54E	618560	24830	168	54	51	4	ND	2.774
101	7 46	7.783	2265	42 32.32N	97	5.34E	42	50N	96	57E	618708	24829	168	57	51	8	ND	2.780
102	7 46	10.043	2260	42 23.25N	97	7.73E	42	41N	97	59E	618859	24829	168	59	51	11	ND	2.780
103	7 46	12.304	2260	42 14.18N	97	10.11E	42	32N	97	2E	619114	24829	169	1	51	14	ND	2.780
104	7 46	14.563	2260	42 5.11N	97	12.47E	42	23N	97	4E	619170	24828	169	4	51	18	ND	2.780
105	7 46	16.823	2260	41 56.04N	97	14.81E	42	14N	97	6E	619329	24828	169	6	51	25	ND	2.780
106	7 46	19.083	2260	41 46.97N	97	17.14E	42	5N	97	9E	619492	24828	169	8	51	25	ND	2.780
107	7 46	21.334	2251	41 37.93N	97	19.45E	42	5N	97	11E	619658	24827	169	11	51	28	ND	2.791
108	7 46	23.594	2259	41 28.86N	97	21.76E	41	55N	97	13E	619826	24827	169	13	51	32	ND	2.781
109	7 46	25.849	2255	41 19.80N	97	24.04E	41	46N	97	16E	619997	24827	169	15	51	35	ND	2.786
110	7 46	28.108	2250	41 10.72N	97	26.32E	41	37N	97	18E	620171	24826	169	18	51	38	ND	2.786
111	7 46	30.363	2255	41 1.66N	97	28.58E	41	28N	97	20E	620349	24826	169	20	51	41	ND	2.786
112	7 46	32.618	2255	40 52.61N	97	30.83E	41	19N	97	23E	620529	24825	169	22	51	45	ND	2.786
113	7 46	34.878	2260	40 43.52N	97	33.07E	41	10N	97	25E	620712	24825	169	24	51	48	ND	2.788
114	7 46	37.134	2255	40 34.46N	97	35.29E	41	1N	97	27E	620899	24825	169	26	51	51	ND	2.788
115	7 46	39.394	2260	40 25.38N	97	37.51E	40	52N	97	29E	621088	24824	169	29	51	54	ND	2.786
116	7 46	41.648	2255	40 16.31N	97	39.71E	40	43N	97	32E	621281	24824	169	31	51	57	ND	2.779
117	7 46	43.909	2261	39 58.14N	97	41.90E	40	34N	97	34E	621476	24823	169	33	52	0	ND	2.781
118	7 46	46.168	2255	39 49.07N	97	44.07E	40	25N	97	36E	621675	24823	169	35	52	3	ND	2.779
119	7 46	48.424	2255	39 40.00N	97	46.23E	40	16N	97	38E	621876	24822	169	37	52	6	ND	2.786
120	7 46	50.685	2261	39 30.98N	97	48.39E	40	7N	97	40E	622080	24822	169	39	52	10	ND	2.779
121	7 46	52.948	2264	39 21.87N	97	50.53E	39	58N	97	43E	622289	24821	169	41	52	13	ND	2.775
122	7 46	55.208	2260	39 12.78N	97	52.66E	39	49N	97	45E	622499	24821	169	43	52	15	ND	2.780
123	7 46	57.469	2260	39 3.69N	97	54.78E	39	39N	97	47E	622713	24821	169	45	52	18	ND	2.788
124	7 46	59.733	2265	39 5.58N	97	56.89E	39	30N	97	49E	622930	24820	169	47	52	21	ND	2.774
125	7 47	1.993	2260	38 45.48N	98	58.98E	39	21N	97	51E	623150	24820	169	50	52	24	ND	2.780
126	7 47	4.259	2265	38 36.25N	98	1.07E	39	12N	97	53E	623373	24819	169	52	52	27	ND	2.774
127	7 47	6.523	2265	38 27.15N	98	3.15E	39	3N	97	55E	623600	24819	169	54	52	30	ND	2.774
128	7 47	8.783	2260	38 18.03N	98	5.21E	38	54N	97	57E	623829	24818	169	56	52	35	ND	2.780
129	7 47	11.049	2265	38 8.91N	98	7.27E	38	45N	98	0E	624061	24817	170	0	52	38	ND	2.774
130	7 47	13.313	2265	38 0.79N	98	9.31E	38	36N	98	2E	624296	24817	170	0	52	38	ND	2.774
131	7 47	15.578	2265	37 59.79N	98	11.30E	38	27N	98	4E	624533	24816	170	1	52	41	ND	2.774
132	7 47	17.849	2270	37 50.65N	98	13.37E	38	18N	98	6E	624777	24816	170	1	52	43	ND	2.768
133	7 48	45.259	87410	31 58.03N	99	24.45E	32	26N	99	17E	636441	24789	171	9	54	2	ND	0.072
134	7 48	48.434	3175	31 45.21N	99	26.45E	32	13N	99	20E	636951	24788	171	11	54	3	ND	1.979
135	7 48	51.033	2600	31 34.70N	99	28.35E	32	2N	99	22E	637373	24787	171	13	54	5	ND	2.417

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 85D AFT 11AUG64

FRAME EPHEMERIS

MISSION 1889-2

ID 27

LIST DATE 07MAY65

PAGE 148

FRM	Z TIME	DTIM	CAMERA	FRM	DTIM	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI SEC	MILLS	DEG MIN	DEG LONG	MIN DEG	MIN DEG	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
136	7 48 53.488	2455	31 24.78N	99 38.14E	31 52N 99 23E	637776	24786	171 15	54 6	ND	ND	ND	2.559
137	7 48 55.878	2398	31 15.13N	99 31.87E	31 43N 99 25E	638178	24785	171 16	54 8	ND	ND	ND	2.629
138	7 48 58.239	2361	31 5.59N	99 33.57E	31 33N 99 27E	638564	24785	171 18	54 9	ND	ND	ND	2.661
139	7 49 0.589	2349	38 56.09N	99 35.26E	31 24N 99 29E	638959	24784	171 19	54 10	ND	ND	ND	2.675
140	7 49 2.934	2345	38 46.62N	99 36.93E	31 14N 99 30E	639357	24783	171 21	54 11	ND	ND	ND	2.679
141	7 49 5.269	2335	38 37.18N	99 38.59E	31 5N 99 32E	639757	24782	171 22	54 12	ND	ND	ND	2.691
142	7 49 7.604	2335	38 27.74N	99 40.25E	38 46N 99 34E	640159	24781	171 23	54 14	ND	ND	ND	2.691
143	7 49 9.938	2335	38 18.38N	99 41.89E	38 46N 99 35E	640565	24780	171 25	54 15	ND	ND	ND	2.685
144	7 49 12.278	2348	8.85N	99 43.53E	38 37N 99 37E	640975	24779	171 26	54 16	ND	ND	ND	2.685
145	7 49 14.613	2335	29 59.41N	99 45.16E	39E	641388	24778	171 28	54 17	ND	ND	ND	2.691
146	7 49 16.943	2338	29 49.99N	99 46.79E	38 18N 99 40E	641803	24777	171 29	54 18	ND	ND	ND	2.697
147	7 49 19.279	2336	29 48.55N	99 48.48E	38 8N 99 42E	642221	24776	171 31	54 18	ND	ND	ND	2.690
148	7 49 21.619	2348	29 31.09N	99 50.82E	29 59N 99 44E	642645	24775	171 32	54 19	ND	ND	ND	2.685
149	7 49 23.958	2339	29 21.63N	99 51.62E	29 49N 99 45E	643071	24774	171 33	54 20	ND	ND	ND	2.686
150	7 49 26.293	2335	29 12.19N	99 53.22E	29 40N 99 47E	643499	24773	171 35	54 21	ND	ND	ND	2.691
151	7 49 28.634	2348	29 2.72N	99 54.81E	29 31N 99 48E	643933	24772	171 36	54 22	ND	ND	ND	2.685
152	7 49 30.975	2341	28 53.26N	99 56.48E	29 21N 99 50E	644370	24771	171 37	54 23	ND	ND	ND	2.684
153	7 49 33.313	2339	28 43.88N	99 57.98E	29 12N 99 52E	644809	24770	171 39	54 23	ND	ND	ND	2.685
154	7 49 35.653	2348	28 34.34N	99 59.55E	29 2N 99 53E	645252	24769	171 40	54 24	ND	ND	ND	2.685
155	7 49 37.998	2345	28 24.86N	100 1.12E	28 53N 99 55E	645699	24768	171 41	54 25	ND	ND	ND	2.679
156	7 49 40.339	2348	28 15.39N	100 2.69E	28 43N 99 56E	646149	24767	171 43	54 25	ND	ND	ND	2.685
157	7 49 42.679	2348	5.93N	100 4.24E	28 34N 99 58E	646601	24766	171 44	54 26	ND	ND	ND	2.685
158	7 49 45.023	2345	27 56.44N	100 5.79E	28 24N 99 59E	647059	24765	171 45	54 26	ND	ND	ND	2.679
159	7 49 47.368	2345	27 46.96N	100 7.34E	28 15N 100 1E	647519	24764	171 46	54 27	ND	ND	ND	2.674
160	7 49 49.719	2358	27 37.45N	100 8.88E	28 5N 100 3E	647983	24763	171 48	54 27	ND	ND	ND	2.674
161	7 49 52.068	2358	27 27.95N	100 10.41E	27 56N 100 4E	648452	24762	171 49	54 27	ND	ND	ND	2.674
162	7 49 54.418	2358	27 18.44N	100 11.94E	27 47N 100 6E	648923	24761	171 50	54 28	ND	ND	ND	2.674
163	7 49 56.770	2351	27 8.93N	100 13.47E	27 37N 100 7E	649397	24760	171 52	54 28	ND	ND	ND	2.673
164	7 49 59.128	2359	26 59.39N	100 14.99E	27 28N 100 9E	649878	24759	171 53	54 28	ND	ND	ND	2.663
165	7 50 1.483	2355	26 49.86N	100 16.50E	27 18N 100 9E	650368	24758	171 54	54 29	ND	ND	ND	2.668
166	7 50 3.839	2355	26 40.33N	100 18.01E	26 8N 100 12E	650846	24756	171 55	54 29	ND	ND	ND	2.668
167	7 50 6.198	2368	26 30.79N	100 19.52E	26 59N 100 13E	651336	24755	171 56	54 29	ND	ND	ND	2.662
168	7 50 8.559	2368	26 21.24N	100 21.02E	26 49N 100 15E	651829	24754	171 58	54 29	ND	ND	ND	2.662
169	7 50 10.924	2365	26 11.67N	100 22.52E	26 48N 100 16E	652327	24753	171 59	54 29	ND	ND	ND	2.657
170	7 50 13.283	2368	26 2.13N	100 24.00E	18E	652827	24752	172 0	54 29	ND	ND	ND	2.662
171	7 50 15.648	2365	25 52.56N	100 25.49E	19E	653331	24751	172 1	54 29	ND	ND	ND	2.657
172	7 50 18.023	2375	25 42.95N	100 26.98E	21E	653841	24750	172 2	54 29	ND	ND	ND	2.646
173	7 50 20.389	2365	25 33.38N	100 28.45E	22E	654352	24748	172 3	54 29	ND	ND	ND	2.657
174	7 50 22.755	2366	25 23.80N	100 29.92E	24E	654867	24747	172 5	54 29	ND	ND	ND	2.656
175	7 50 25.128	2374	25 14.28N	100 31.39E	25E	655386	24746	172 6	54 29	ND	ND	ND	2.647
176	7 50 27.503	2375	25 4.59N	100 32.85E	27E	655910	24745	172 7	54 29	ND	ND	ND	2.646
177	7 50 29.873	2378	24 55.00N	100 34.31E	28E	656436	24744	172 8	54 29	ND	ND	ND	2.651
178	7 50 32.248	2375	24 45.39N	100 35.76E	30E	656966	24742	172 9	54 28	ND	ND	ND	2.646
179	7 50 34.623	2375	24 35.78N	100 37.21E	31E	657500	24741	172 10	54 28	ND	ND	ND	2.646
180	7 50 37.003	2388	24 26.15N	100 38.65E	33E	658038	24740	172 11	54 27	ND	ND	ND	2.648

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 85D AFT 11AUG64

FRAME EPHEMERIS MISSION 1009-2

ID 27

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FRM	Z TIME		DTJM	CAMERA NADIR		FORMAT CENTER		ALTITUDE FEET	VELOC F/S	AZIMUTH SUN/		PITCH DEG MIN	ROLL DEG MIN	YAW DEG MIN	SCAN RATE					
	HR MI	SEC		LAT	DEG MIN	DEG MIN	DEG MIN			DEG MIN	DEG MI					DEG MI				
181	7 50	39.384	2380	24	16.51N	100	40.10E	24	45N	100	34E	658579	24739	172	12	54	27	ND	ND	2.640
182	7 50	41.769	2385	24	6.86N	100	41.53E	24	35N	100	35E	659125	24738	172	14	54	27	ND	ND	2.634
183	7 50	44.149	2391	23	57.23N	100	42.96E	24	26N	100	37E	659673	24736	172	15	54	26	ND	ND	2.639
184	7 50	46.538	2389	23	47.56N	100	44.39E	24	16N	100	38E	660228	24735	172	16	54	26	ND	ND	2.638
185	7 50	48.929	2390	23	37.88N	100	45.82E	24	6N	100	40E	660785	24734	172	17	54	25	ND	ND	2.629
186	7 50	51.313	2385	23	28.23N	100	47.24E	23	57N	100	41E	661344	24732	172	18	54	25	ND	ND	2.634
187	7 50	53.703	2390	23	18.56N	100	48.65E	23	47N	100	43E	661908	24731	172	19	54	24	ND	ND	2.629
188	7 50	56.104	2400	23	8.85N	100	50.07E	23	38N	100	44E	662478	24730	172	20	54	23	ND	ND	2.618
189	7 50	58.498	2395	22	59.16N	100	51.48E	23	28N	100	46E	663050	24729	172	21	54	23	ND	ND	2.623
190	7 51	8.894	2395	22	49.46N	100	52.88E	23	18N	100	47E	663625	24727	172	22	54	22	ND	ND	2.623

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

FRM	2 TIME		DTM	CAMERA		NADR		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	
1	9	11	49.253	0	62	2.36N	65	38.08E	62	28N	65	8E	623453	24816	159.55	4.0	21	4.0	21	ND	ND	ND	ND	ND	2.040
2	9	11	52.333	3080	61	50.58N	65	39.11E	62	16N	65	18E	623168	24817	160	5	48	29	ND	ND	ND	ND	ND	ND	2.040
3	9	11	54.868	2535	61	40.87N	65	46.51E	62	6N	65	25E	622938	24817	160	12	40	36	ND	ND	ND	ND	ND	ND	2.479
4	9	11	57.253	2385	61	31.72N	65	53.48E	61	57N	65	33E	622724	24818	160	19	40	42	ND	ND	ND	ND	ND	ND	2.634
5	9	11	59.568	2315	61	22.84N	66	6.01E	61	48N	65	39E	622519	24818	160	26	40	48	ND	ND	ND	ND	ND	ND	2.714
6	9	12	1.863	2295	61	14.03N	66	6.51E	61	48N	65	46E	622319	24819	160	33	40	54	ND	ND	ND	ND	ND	ND	2.738
7	9	12	4.139	2275	61	5.29N	66	12.88E	61	31N	65	53E	622122	24819	160	40	41	0	ND	ND	ND	ND	ND	ND	2.762
8	9	12	6.408	2270	60	56.56N	66	19.17E	61	22N	65	59E	621929	24820	160	46	41	6	ND	ND	ND	ND	ND	ND	2.768
9	9	12	8.674	2265	60	47.84N	66	25.39E	61	14N	66	6E	621738	24820	160	52	41	12	ND	ND	ND	ND	ND	ND	2.774
10	9	12	10.938	2265	60	39.13N	66	31.54E	61	5N	66	12E	621550	24821	160	59	41	18	ND	ND	ND	ND	ND	ND	2.774
11	9	12	13.193	2255	60	30.44N	66	37.61E	60	56N	66	18E	621367	24821	161	5	41	24	ND	ND	ND	ND	ND	ND	2.786
12	9	12	15.448	2255	60	21.74N	66	43.62E	60	47N	66	24E	621185	24822	161	11	41	30	ND	ND	ND	ND	ND	ND	2.786
13	9	12	17.703	2255	60	13.05N	66	49.57E	60	39N	66	30E	621006	24822	161	17	41	36	ND	ND	ND	ND	ND	ND	2.786
14	9	12	19.954	2251	60	4.36N	66	55.46E	60	30N	66	37E	620829	24822	161	24	41	42	ND	ND	ND	ND	ND	ND	2.791
15	9	12	22.203	2249	59	55.67N	67	1.28E	60	21N	66	43E	620656	24823	161	30	41	48	ND	ND	ND	ND	ND	ND	2.794
16	9	12	24.453	2250	59	46.97N	67	7.05E	60	13N	66	48E	620484	24823	161	36	41	53	ND	ND	ND	ND	ND	ND	2.793
17	9	12	26.698	2245	59	38.29N	67	12.75E	60	4N	66	54E	620316	24824	161	41	41	59	ND	ND	ND	ND	ND	ND	2.799
18	9	12	28.948	2245	59	29.58N	67	18.41E	59	55N	67	0E	620150	24824	161	47	42	5	ND	ND	ND	ND	ND	ND	2.793
19	9	12	31.193	2245	59	20.89N	67	24.01E	59	47N	67	6E	619967	24825	161	53	42	11	ND	ND	ND	ND	ND	ND	2.799
20	9	12	33.438	2245	59	12.19N	67	29.56E	59	38N	67	12E	619827	24825	161	59	42	17	ND	ND	ND	ND	ND	ND	2.799
21	9	12	35.683	2244	59	3.49N	67	35.05E	59	29N	67	17E	619668	24825	162	4	42	22	ND	ND	ND	ND	ND	ND	2.800
22	9	12	37.929	2246	58	54.78N	67	40.49E	59	21N	67	23E	619513	24826	162	10	42	28	ND	ND	ND	ND	ND	ND	2.798
23	9	12	40.168	2240	58	46.09N	67	45.87E	59	12N	67	28E	619350	24826	162	16	42	34	ND	ND	ND	ND	ND	ND	2.805
24	9	12	42.413	2245	58	37.37N	67	51.21E	59	3N	67	34E	619210	24826	162	21	42	40	ND	ND	ND	ND	ND	ND	2.799
25	9	12	44.653	2240	58	28.67N	67	56.49E	58	54N	67	39E	619062	24827	162	27	42	45	ND	ND	ND	ND	ND	ND	2.805
26	9	12	46.894	2240	58	19.96N	68	1.73E	58	46N	67	45E	618918	24827	162	32	42	51	ND	ND	ND	ND	ND	ND	2.805
27	9	12	49.134	2240	58	11.24N	68	6.92E	58	37N	67	50E	618776	24827	162	37	42	57	ND	ND	ND	ND	ND	ND	2.805
28	9	12	51.373	2240	58	2.53N	68	12.06E	58	28N	67	55E	618636	24828	162	43	43	8	ND	ND	ND	ND	ND	ND	2.805
29	9	12	53.613	2240	57	53.81N	68	17.15E	58	20N	68	1E	618499	24828	162	48	43	13	ND	ND	ND	ND	ND	ND	2.805
30	9	12	55.854	2244	57	45.08N	68	22.20E	58	11N	68	6E	618365	24828	162	53	43	19	ND	ND	ND	ND	ND	ND	2.805
31	9	12	58.094	2240	57	36.35N	68	27.20E	58	2N	68	11E	618223	24829	162	58	43	25	ND	ND	ND	ND	ND	ND	2.811
32	9	13	0.328	2235	57	27.64N	68	32.15E	57	53N	68	16E	618084	24829	163	4	43	31	ND	ND	ND	ND	ND	ND	2.805
33	9	13	2.568	2240	57	18.98N	68	37.07E	57	45N	68	21E	617977	24829	163	9	43	38	ND	ND	ND	ND	ND	ND	2.805
34	9	13	4.809	2240	57	10.15N	68	41.94E	57	36N	68	26E	617853	24830	163	14	43	36	ND	ND	ND	ND	ND	ND	2.811
35	9	13	7.049	2240	57	1.48N	68	46.77E	57	27N	68	31E	617732	24830	163	19	43	41	ND	ND	ND	ND	ND	ND	2.805
36	9	13	9.283	2235	56	52.68N	68	51.55E	57	19N	68	36E	617613	24830	163	24	43	47	ND	ND	ND	ND	ND	ND	2.811
37	9	13	11.519	2235	56	43.94N	68	56.29E	57	10N	68	41E	617497	24831	163	29	43	52	ND	ND	ND	ND	ND	ND	2.811
38	9	13	13.753	2235	56	35.20N	69	0.98E	57	1N	68	46E	617384	24831	163	33	43	58	ND	ND	ND	ND	ND	ND	2.811
39	9	13	15.988	2235	56	26.46N	69	5.64E	56	52N	68	50E	617274	24831	163	38	44	3	ND	ND	ND	ND	ND	ND	2.811
40	9	13	18.224	2235	56	17.71N	69	10.26E	56	44N	68	55E	617165	24831	163	43	44	9	ND	ND	ND	ND	ND	ND	2.811
41	9	13	20.454	2231	56	8.97N	69	14.82E	56	35N	69	0E	617060	24832	163	48	44	14	ND	ND	ND	ND	ND	ND	2.816
42	9	13	22.693	2235	56	0.20N	69	19.37E	56	26N	69	4E	616957	24832	163	52	44	19	ND	ND	ND	ND	ND	ND	2.806
43	9	13	24.929	2235	55	51.44N	69	23.87E	56	17N	69	9E	616857	24832	163	57	44	25	ND	ND	ND	ND	ND	ND	2.811
44	9	13	27.163	2235	55	42.68N	69	28.33E	56	0N	69	14E	616759	24832	164	2	44	30	ND	ND	ND	ND	ND	ND	2.811
45	9	13	29.398	2235	55	33.91N	69	32.76E	56	0N	69	18E	616664	24833	164	6	44	36	ND	ND	ND	ND	ND	ND	2.811

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 86D AFT 11AUG64

FRAME EPHMERIS MISSION 1809-2

ID 27

LIST DATE 87MAY65 PAGE 143

FRM	Z TIME	DTIM	CAMERA	NADR	FORMAT	CENTER	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI	SEC	MILS	LAT	DEG MIN	DEG MIN	LONG	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
46	9 13 31.634	2235	55 25.14N	69 37.15E	55 51N	69 23E	616571	24833	164 11	44 41	ND	ND	ND	2.811
47	9 13 33.868	2235	55 16.37N	69 41.50E	55 42N	69 27E	616462	24833	164 15	44 46	ND	ND	ND	2.811
48	9 13 36.099	2230	55 7.61N	69 45.80E	55 34N	69 31E	616395	24833	164 20	44 52	ND	ND	ND	2.818
49	9 13 38.333	2235	54 58.83N	69 50.88E	55 25N	69 36E	616311	24834	164 24	44 57	ND	ND	ND	2.805
50	9 13 40.573	2240	54 58.83N	69 54.34E	55 16N	69 40E	616229	24834	164 29	45 2	ND	ND	ND	2.818
51	9 13 42.804	2230	54 41.26N	69 58.54E	55 7N	69 45E	616158	24834	164 33	45 8	ND	ND	ND	2.818
52	9 13 45.038	2235	54 32.47N	70 2.71E	54 58N	69 49E	616074	24834	164 37	45 13	ND	ND	ND	2.818
53	9 13 47.269	2230	54 23.78N	70 6.85E	54 58N	69 53E	616000	24834	164 41	45 18	ND	ND	ND	2.818
54	9 13 49.503	2235	54 14.98N	70 10.96E	54 41N	69 57E	615929	24835	164 46	45 23	ND	ND	ND	2.811
55	9 13 51.733	2230	54 6.12N	70 15.03E	54 32N	70 1E	615862	24835	164 50	45 28	ND	ND	ND	2.818
56	9 13 53.964	2230	53 57.33N	70 19.06E	54 23N	70 6E	615795	24835	164 54	45 34	ND	ND	ND	2.811
57	9 13 56.198	2235	53 48.53N	70 23.07E	54 15N	70 10E	615732	24835	164 58	45 39	ND	ND	ND	2.811
58	9 13 58.430	2231	53 39.73N	70 27.05E	54 6N	70 14E	615672	24835	165 2	45 44	ND	ND	ND	2.816
59	9 14 0.663	2234	53 30.93N	70 30.99E	53 57N	70 18E	615614	24835	165 6	45 49	ND	ND	ND	2.813
60	9 14 2.898	2235	53 22.11N	70 34.91E	53 48N	70 22E	615559	24835	165 10	45 54	ND	ND	ND	2.811
61	9 14 5.123	2225	53 13.33N	70 38.78E	53 39N	70 26E	615508	24836	165 14	45 59	ND	ND	ND	2.824
62	9 14 7.358	2235	53 4.51N	70 42.63E	53 31N	70 30E	615458	24836	165 18	46 4	ND	ND	ND	2.811
63	9 14 9.594	2235	52 55.68N	70 46.46E	53 22N	70 34E	615418	24836	165 22	46 9	ND	ND	ND	2.811
64	9 14 11.823	2230	52 46.87N	70 50.25E	53 13N	70 37E	615366	24836	165 26	46 14	ND	ND	ND	2.818
65	9 14 14.054	2230	52 38.06N	70 54.01E	53 4N	70 41E	615325	24836	165 30	46 19	ND	ND	ND	2.818
66	9 14 16.288	2230	52 29.23N	70 57.75E	52 55N	70 45E	615286	24836	165 34	46 24	ND	ND	ND	2.811
67	9 14 18.519	2230	52 20.41N	71 1.45E	52 46N	70 49E	615250	24836	165 38	46 29	ND	ND	ND	2.818
68	9 14 20.748	2230	52 11.60N	71 5.12E	52 38N	70 53E	615217	24836	165 42	46 34	ND	ND	ND	2.818
69	9 14 22.978	2221	52 2.81N	71 8.76E	52 29N	70 56E	615186	24836	165 45	46 39	ND	ND	ND	2.829
70	9 14 25.199	2230	51 53.98N	71 12.37E	52 20N	71 1E	615159	24837	165 49	46 44	ND	ND	ND	2.818
71	9 14 27.430	2230	51 45.16N	71 15.97E	52 11N	71 4E	615133	24837	165 53	46 49	ND	ND	ND	2.818
72	9 14 29.663	2234	51 36.31N	71 19.54E	51 54N	71 7E	615111	24837	165 57	46 54	ND	ND	ND	2.813
73	9 14 31.890	2226	51 27.49N	71 23.07E	51 45N	71 11E	615091	24837	166 0	46 59	ND	ND	ND	2.823
74	9 14 34.124	2235	51 18.64N	71 26.59E	51 36N	71 15E	615074	24837	166 4	47 4	ND	ND	ND	2.811
75	9 14 36.354	2229	51 9.81N	71 30.07E	51 36N	71 18E	615060	24837	166 7	47 9	ND	ND	ND	2.819
76	9 14 38.583	2230	51 0.97N	71 33.53E	51 27N	71 22E	615049	24837	166 11	47 13	ND	ND	ND	2.818
77	9 14 40.818	2235	50 52.10N	71 36.98E	51 18N	71 25E	615039	24837	166 14	47 18	ND	ND	ND	2.811
78	9 14 43.049	2230	50 43.26N	71 40.39E	51 9N	71 29E	615033	24837	166 18	47 23	ND	ND	ND	2.818
79	9 14 45.278	2230	50 34.41N	71 43.77E	51 1N	71 32E	615030	24837	166 21	47 28	ND	ND	ND	2.818
80	9 14 47.514	2235	50 25.54N	71 47.14E	50 52N	71 36E	615033	24837	166 25	47 33	ND	ND	ND	2.811
81	9 14 49.743	2230	50 16.69N	71 50.47E	50 43N	71 39E	615032	24837	166 28	47 37	ND	ND	ND	2.818
82	9 14 51.979	2235	50 7.81N	71 53.79E	50 34N	71 42E	615037	24837	166 32	47 42	ND	ND	ND	2.811
83	9 14 54.208	2230	49 58.96N	71 57.08E	50 25N	71 46E	615045	24837	166 35	47 47	ND	ND	ND	2.818
84	9 14 56.443	2235	49 50.08N	72 0.35E	50 16N	71 49E	615055	24837	166 39	47 51	ND	ND	ND	2.811
85	9 14 58.674	2230	49 41.21N	72 3.59E	50 7N	71 52E	615068	24837	166 42	47 56	ND	ND	ND	2.818
86	9 15 0.908	2235	49 32.33N	72 6.82E	49 59N	71 56E	615085	24837	166 45	48 1	ND	ND	ND	2.811
87	9 15 3.139	2230	49 23.47N	72 10.02E	49 50N	71 59E	615103	24837	166 48	48 5	ND	ND	ND	2.818
88	9 15 5.373	2235	49 14.58N	72 13.20E	49 41N	72 2E	615125	24837	166 52	48 10	ND	ND	ND	2.811
89	9 15 7.604	2230	49 5.71N	72 16.35E	49 32N	72 5E	615149	24837	166 55	48 14	ND	ND	ND	2.818
90	9 15 9.833	2230	48 56.84N	72 19.47E	49 23N	72 9E	615176	24837	166 58	48 19	ND	ND	ND	2.818

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 860 AFT 11AUG64

FRAME EPHEMERIS MISSION 1089-2

ID 27

LIST DATE 07MAY65

PAGE 144

FRM	Z TIME	DTIM	CAMERA	FORMAT	CENTER	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI SEC	MILS	DEG MIN	DEG LONG	MIN DEG	MIN DEG	FEET	F/S	MI DEG	MI DEG	MIN	MIN	MIN	RATE
91	9 15 12.063	2230	48 47.96N	49 14N	72 12E	615206	24837	167 1	48 23	ND	ND	ND	2.818
92	9 15 14.294	2231	48 39.08N	49 5N	72 15E	615239	24837	167 4	48 28	ND	ND	ND	2.816
93	9 15 16.528	2234	48 30.19N	48 56N	72 18E	615274	24837	167 8	48 32	ND	ND	ND	2.813
94	9 15 18.764	2235	48 21.28N	48 48N	72 21E	615313	24837	167 11	48 37	ND	ND	ND	2.811
95	9 15 20.993	2230	48 12.40N	48 39N	72 24E	615354	24837	167 14	48 41	ND	ND	ND	2.818
96	9 15 23.229	2235	48 3.58N	48 30N	72 27E	615398	24836	167 17	48 46	ND	ND	ND	2.818
97	9 15 25.458	2230	47 54.61N	48 21N	72 30E	615444	24836	167 20	48 54	ND	ND	ND	2.818
98	9 15 27.688	2230	47 45.72N	48 12N	72 33E	615494	24836	167 23	48 58	ND	ND	ND	2.818
99	9 15 29.919	2231	47 36.83N	48 3N	72 36E	615547	24836	167 26	48 59	ND	ND	ND	2.816
100	9 15 32.153	2234	47 27.92N	47 54N	72 39E	615602	24836	167 29	49 3	ND	ND	ND	2.813
101	9 15 34.389	2235	47 19.00N	47 45N	72 42E	615660	24836	167 32	49 7	ND	ND	ND	2.811
102	9 15 36.628	2240	47 10.07N	47 36N	72 45E	615721	24836	167 35	49 12	ND	ND	ND	2.805
103	9 15 38.858	2230	47 1.17N	47 27N	72 48E	615785	24836	167 38	49 16	ND	ND	ND	2.818
104	9 15 41.094	2235	46 52.25N	47 19N	72 51E	615851	24836	167 41	49 20	ND	ND	ND	2.811
105	9 15 43.328	2235	46 43.33N	47 10N	72 54E	615920	24835	167 44	49 24	ND	ND	ND	2.811
106	9 15 45.563	2235	46 34.40N	47 1N	72 57E	615993	24835	167 46	49 29	ND	ND	ND	2.811
107	9 15 47.799	2235	46 25.48N	46 52N	73 0E	616068	24835	167 49	49 33	ND	ND	ND	2.811
108	9 15 50.033	2235	46 16.55N	46 43N	73 03E	616146	24835	167 52	49 37	ND	ND	ND	2.811
109	9 15 52.269	2235	46 7.62N	46 34N	73 05E	616227	24835	167 55	49 41	ND	ND	ND	2.811
110	9 15 54.503	2235	45 58.69N	46 25N	73 08E	616310	24835	167 58	49 45	ND	ND	ND	2.811
111	9 15 56.734	2231	45 49.78N	46 16N	73 11E	616397	24834	168 0	49 49	ND	ND	ND	2.816
112	9 15 58.970	2235	45 40.84N	46 7N	73 14E	616486	24834	168 3	49 53	ND	ND	ND	2.811
113	9 16 1.208	2239	45 31.89N	45 58N	73 16E	616578	24834	168 6	49 57	ND	ND	ND	2.806
114	9 16 3.448	2240	45 22.93N	45 49N	73 19E	616674	24834	168 9	50 1	ND	ND	ND	2.805
115	9 16 5.678	2230	45 14.01N	45 40N	73 22E	616771	24834	168 11	50 5	ND	ND	ND	2.818
116	9 16 7.918	2240	45 5.06N	45 31N	73 25E	616872	24833	168 14	50 9	ND	ND	ND	2.805
117	9 16 10.153	2235	44 56.11N	45 23N	73 27E	616976	24833	168 17	50 13	ND	ND	ND	2.811
118	9 16 12.398	2245	44 47.13N	45 14N	73 30E	617083	24833	168 19	50 17	ND	ND	ND	2.799
119	9 16 14.634	2235	44 38.18N	45 5N	73 33E	617192	24833	168 22	50 21	ND	ND	ND	2.811
120	9 16 16.873	2240	44 29.22N	44 56N	73 35E	617305	24832	168 24	50 25	ND	ND	ND	2.805
121	9 16 19.113	2240	44 20.25N	44 47N	73 38E	617420	24832	168 27	50 29	ND	ND	ND	2.805
122	9 16 21.354	2240	44 11.28N	44 38N	73 40E	617538	24832	168 30	50 32	ND	ND	ND	2.805
123	9 16 23.594	2240	44 2.30N	44 29N	73 43E	617660	24832	168 32	50 36	ND	ND	ND	2.805
124	9 16 25.828	2235	43 53.35N	44 20N	73 45E	617784	24831	168 35	50 40	ND	ND	ND	2.811
125	9 16 28.068	2240	43 44.38N	44 11N	73 48E	617910	24831	168 37	50 44	ND	ND	ND	2.805
126	9 16 30.309	2240	43 35.40N	44 2N	73 51E	618041	24831	168 40	50 48	ND	ND	ND	2.805
127	9 16 32.549	2240	43 26.42N	44 53N	73 53E	618173	24830	168 42	50 51	ND	ND	ND	2.805
128	9 16 34.788	2240	43 17.45N	44 44N	73 56E	618309	24830	168 45	50 55	ND	ND	ND	2.805
129	9 16 37.028	2240	43 8.47N	44 35N	73 58E	618448	24830	168 47	50 58	ND	ND	ND	2.805
130	9 16 39.273	2245	42 59.47N	44 26N	74 0E	618589	24830	168 49	51 2	ND	ND	ND	2.799
131	9 16 41.519	2245	42 50.46N	44 17N	74 03E	618734	24829	168 52	51 6	ND	ND	ND	2.799

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

FRAME EPHEMERIS MISSION 1889-2

ID 27

LIST DATE 07MAY65 PAGE 145

PASS	88A	AFT	11AUG64	CAMERA NADIR				FORMAT CENTER				ALTITUDE VELOC				AZIMUTH SUN/				PITCH		ROLL		YAW		SCAN	
FRM	Z	TIME	DTIM	LAT	MIN	DEG	LONG	MIN	DEG	LONG	MIN	DEG	FEET	F/S	DEG	MI	DEG	MI	DEG	MIN	DEG	MIN	DEG	MIN	DEG	MIN	RATE
1	11	54	1.269	38	7.26N	128	9.15W	37	26N	128	21W	957601	24868	9	55	-20	25	ND	ND	ND	ND	ND	ND	ND	ND	1.333	
2	11	54	5.983	38	25.67N	128	5.06W	37	45N	128	17W	955601	24864	9	59	-20	11	ND	ND	ND	ND	ND	ND	ND	ND	1.544	
3	11	54	10.054	38	41.56N	128	1.48W	38	0N	128	13W	953874	24868	10	3	-19	57	ND	ND	ND	ND	ND	ND	ND	ND	1.603	
4	11	54	13.974	38	56.86N	127	58.01W	38	16N	128	10W	952214	24872	10	6	-19	45	ND	ND	ND	ND	ND	ND	ND	ND	1.626	
5	11	54	17.838	39	11.94N	127	54.55W	38	31N	128	7W	950579	24875	10	9	-19	33	ND	ND	ND	ND	ND	ND	ND	ND	1.638	
6	11	54	21.674	39	26.92N	127	51.09W	38	46N	128	3W	948958	24879	10	13	-19	21	ND	ND	ND	ND	ND	ND	ND	ND	1.645	
7	11	54	25.493	39	41.82N	127	47.61W	39	1N	128	0W	947346	24883	10	16	-19	8	ND	ND	ND	ND	ND	ND	ND	ND	1.653	
8	11	54	29.293	39	56.65N	127	44.11W	39	16N	127	56W	945744	24886	10	20	-18	56	ND	ND	ND	ND	ND	ND	ND	ND	1.658	
9	11	54	33.083	40	11.44N	127	40.59W	39	31N	127	53W	944148	24890	10	23	-18	44	ND	ND	ND	ND	ND	ND	ND	ND	1.664	
10	11	54	36.856	40	26.18N	127	37.05W	39	46N	127	49W	942568	24893	10	27	-18	32	ND	ND	ND	ND	ND	ND	ND	ND	1.667	
11	11	54	40.628	40	48.88N	127	33.49W	40	0N	127	46W	940976	24897	10	30	-18	20	ND	ND	ND	ND	ND	ND	ND	ND	1.676	
12	11	54	44.378	40	55.51N	127	29.91W	40	15N	127	42W	939482	24108	10	34	-18	8	ND	ND	ND	ND	ND	ND	ND	ND	1.678	
13	11	54	48.123	41	10.12N	127	26.29W	40	30N	127	39W	937832	24103	10	38	-17	56	ND	ND	ND	ND	ND	ND	ND	ND	1.685	
14	11	54	51.852	41	24.67N	127	22.67W	40	44N	127	35W	936278	24107	10	41	-17	44	ND	ND	ND	ND	ND	ND	ND	ND	1.685	

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 880 AFT 11AUG64

FRAME EPHEMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65 PAGE 146

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	DEG MIN	DEG MIN	DEG MIN	RATE
1	12 13	4.529	62 6.16N	19 49.45E	62	32N	623133	24817	159 52	48 22	ND	ND	ND	2.189
2	12 13	7.488	61 55.18N	19 57.99E	62	21N	622877	24817	160 1	48 30	ND	ND	ND	2.189
3	12 13	9.895	61 45.63N	20 5.31E	62	11N	622657	24818	160 9	48 37	ND	ND	ND	2.519
4	12 13	12.260	61 36.56N	20 12.18E	62	2N	622453	24819	160 16	48 43	ND	ND	ND	2.519
5	12 13	14.574	61 27.69N	20 18.03E	61	53N	622255	24819	160 23	48 49	ND	ND	ND	2.657
6	12 13	16.864	61 18.90N	20 25.34E	61	45N	622062	24819	160 29	48 55	ND	ND	ND	2.714
7	12 13	19.140	61 10.16N	20 31.75E	61	36N	621873	24820	160 36	41 1	ND	ND	ND	2.744
8	12 13	21.409	61 1.43N	20 38.07E	61	27N	621686	24820	160 42	41 7	ND	ND	ND	2.762
9	12 13	23.670	60 52.74N	20 44.31E	61	18N	621504	24821	160 49	41 13	ND	ND	ND	2.779
10	12 13	25.930	60 44.04N	20 50.49E	61	10N	621323	24821	160 55	41 19	ND	ND	ND	2.781
11	12 13	28.185	60 35.36N	20 56.59E	61	1N	621146	24822	161 2	41 25	ND	ND	ND	2.786
12	12 13	30.439	60 26.67N	21 2.63E	60	52N	620971	24822	161 8	41 31	ND	ND	ND	2.793
13	12 13	32.689	60 17.99N	21 8.61E	60	44N	620799	24822	161 14	41 37	ND	ND	ND	2.798
14	12 13	34.936	60 9.32N	21 14.51E	60	35N	620630	24823	161 20	41 43	ND	ND	ND	2.798
15	12 13	37.185	60 0.64N	21 20.37E	60	26N	620463	24823	161 26	41 49	ND	ND	ND	2.794
16	12 13	39.430	59 51.96N	21 26.16E	60	18N	620299	24824	161 32	41 55	ND	ND	ND	2.799
17	12 13	41.675	59 43.28N	21 31.89E	60	9N	620138	24824	161 38	42 1	ND	ND	ND	2.799
18	12 13	43.914	59 34.62N	21 37.56E	60	0N	619979	24824	161 44	42 7	ND	ND	ND	2.805
19	12 13	46.159	59 25.93N	21 43.18E	59	52N	619822	24825	161 50	42 12	ND	ND	ND	2.805
20	12 13	48.404	59 17.23N	21 48.76E	59	43N	619669	24825	161 55	42 18	ND	ND	ND	2.799
21	12 13	50.649	59 8.53N	21 54.28E	59	34N	619519	24825	162 1	42 24	ND	ND	ND	2.799
22	12 13	52.898	58 51.16N	22 5.15E	59	26N	619370	24826	162 7	42 30	ND	ND	ND	2.805
23	12 13	55.129	58 42.44N	22 10.52E	59	17N	619224	24826	162 12	42 35	ND	ND	ND	2.805
24	12 13	57.374	58 33.74N	22 15.83E	59	8N	619081	24826	162 18	42 41	ND	ND	ND	2.799
25	12 13	59.614	58 25.04N	22 21.09E	59	0N	618940	24827	162 23	42 47	ND	ND	ND	2.805
26	12 14	1.854	58 16.33N	22 26.31E	58	51N	618802	24827	162 29	42 53	ND	ND	ND	2.805
27	12 14	4.095	58 7.61N	22 31.47E	58	42N	618667	24827	162 34	42 58	ND	ND	ND	2.805
28	12 14	6.334	57 58.88N	22 36.61E	58	33N	618533	24828	162 40	43 4	ND	ND	ND	2.805
29	12 14	8.579	57 50.17N	22 41.67E	58	25N	618403	24828	162 45	43 10	ND	ND	ND	2.805
30	12 14	10.814	57 41.46N	22 46.69E	58	16N	618276	24828	162 50	43 16	ND	ND	ND	2.799
31	12 14	13.050	57 32.73N	22 51.62E	57	7N	618151	24829	162 55	43 21	ND	ND	ND	2.811
32	12 14	15.289	57 23.99N	22 56.62E	57	59N	618029	24829	163 1	43 27	ND	ND	ND	2.805
33	12 14	17.529	57 15.27N	23 1.50E	57	50N	617909	24829	163 6	43 32	ND	ND	ND	2.805
34	12 14	19.765	57 6.53N	23 6.36E	57	41N	617792	24830	163 11	43 38	ND	ND	ND	2.811
35	12 14	22.004	56 57.80N	23 11.16E	57	32N	617677	24830	163 16	43 44	ND	ND	ND	2.805
36	12 14	24.239	56 49.05N	23 15.93E	57	24N	617565	24830	163 21	43 49	ND	ND	ND	2.811
37	12 14	26.479	56 40.31N	23 20.65E	57	15N	617456	24830	163 26	43 55	ND	ND	ND	2.811
38	12 14	28.715	56 31.57N	23 25.33E	56	6N	617349	24831	163 31	44 0	ND	ND	ND	2.805
39	12 14	30.949	56 22.80N	23 29.98E	56	57N	617245	24831	163 35	44 6	ND	ND	ND	2.811
40	12 14	33.189	56 14.05N	23 34.58E	56	49N	617143	24831	163 40	44 11	ND	ND	ND	2.811
41	12 14	35.425	56 5.30N	23 39.14E	56	40N	617045	24831	163 45	44 17	ND	ND	ND	2.805
42	12 14	37.659	55 56.54N	23 43.67E	56	31N	616949	24832	163 50	44 22	ND	ND	ND	2.811
43	12 14	39.895	55 47.79N	23 48.15E	56	22N	616855	24832	163 54	44 28	ND	ND	ND	2.811
44	12 14	42.129	55 39.02N	23 52.60E	56	14N	616764	24832	163 59	44 33	ND	ND	ND	2.811
45	12 14	44.364	55 30.22N	23 57.06E	56	5N	616675	24832	164 4	44 39	ND	ND	ND	2.811

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 880 AFT 11AUG64

FRAME EPHEMERIS MISSIION 1809-2

ID 27

LIST DATE 07MAY65 PAGE 147

FRM	Z TIME	DTIM	CAMERA	NADIR	FORMAT	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI	SEC	MILS	DEG MIN	DEG MIN	MIN DEG	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
46	12 14	46.681	55 30.25N	23 57.01E	55 56N	23 42E	616598	24833	164 8	44 44	ND	ND	2.810
47	12 14	48.834	55 21.48N	24 1.71E	55 56N	23 47E	616587	24833	164 13	44 49	ND	ND	2.813
48	12 14	51.069	55 12.78N	24 5.38E	55 39N	23 51E	616427	24833	164 17	44 55	ND	ND	2.811
49	12 14	53.305	55 3.92N	24 10.02E	55 38N	23 56E	616334	24833	164 22	45 0	ND	ND	2.811
50	12 14	55.539	54 55.15N	24 14.28E	55 21N	24 0E	616274	24833	164 26	45 5	ND	ND	2.811
51	12 14	57.778	54 46.58N	24 18.50E	55 12N	24 4E	616202	24834	164 30	45 11	ND	ND	2.818
52	12 15	0.000	54 37.61N	24 22.69E	55 4N	24 9E	616132	24834	164 35	45 16	ND	ND	2.816
53	12 15	2.235	54 28.81N	24 26.85E	55 5N	24 13E	616064	24834	164 39	45 21	ND	ND	2.811
54	12 15	4.478	54 20.02N	24 30.98E	54 46N	24 17E	616000	24834	164 43	45 27	ND	ND	2.813
55	12 15	6.699	54 11.24N	24 35.07E	54 37N	24 21E	615939	24834	164 47	45 32	ND	ND	2.818
56	12 15	8.935	54 2.44N	24 39.13E	54 28N	24 26E	615880	24834	164 52	45 37	ND	ND	2.811
57	12 15	11.169	53 53.64N	24 43.16E	54 20N	24 30E	615823	24835	164 56	45 42	ND	ND	2.811
58	12 15	13.400	53 44.85N	24 47.15E	54 11N	24 34E	615770	24835	165 0	45 48	ND	ND	2.816
59	12 15	15.636	53 36.03N	24 51.12E	54 2N	24 38E	615719	24835	165 4	45 53	ND	ND	2.813
60	12 15	17.869	53 27.23N	24 55.05E	53 53N	24 42E	615671	24835	165 8	45 58	ND	ND	2.811
61	12 15	20.104	53 18.41N	24 58.96E	53 44N	24 46E	615625	24835	165 12	46 3	ND	ND	2.811
62	12 15	22.340	53 9.59N	25 2.83E	53 36N	24 50E	615582	24835	165 16	46 8	ND	ND	2.811
63	12 15	24.574	52 8.76N	25 6.67E	53 27N	24 54E	615541	24835	165 20	46 14	ND	ND	2.811
64	12 15	26.805	52 51.96N	25 10.48E	53 18N	24 58E	615504	24835	165 24	46 19	ND	ND	2.818
65	12 15	29.039	52 43.13N	25 14.26E	53 9N	25 2E	615469	24836	165 28	46 24	ND	ND	2.811
66	12 15	31.270	52 34.32N	25 18.01E	53 0N	25 5E	615437	24836	165 32	46 29	ND	ND	2.818
67	12 15	33.521	52 25.42N	25 21.76E	52 51N	25 9E	615380	24836	165 36	46 34	ND	ND	2.818
68	12 15	35.750	52 16.60N	25 25.45E	52 43N	25 13E	615357	24836	165 40	46 39	ND	ND	2.791
69	12 15	37.978	52 7.82N	25 29.10E	52 34N	25 17E	615335	24836	165 43	46 44	ND	ND	2.832
70	12 15	40.208	51 59.00N	25 32.73E	52 25N	25 20E	615316	24836	165 47	46 49	ND	ND	2.816
71	12 15	42.445	51 50.11N	25 36.36E	52 16N	25 24E	615301	24836	165 51	46 54	ND	ND	2.799
72	12 15	44.655	51 41.37N	25 39.91E	52 7N	25 28E	615287	24836	165 54	46 59	ND	ND	2.843
73	12 15	46.886	51 32.53N	25 43.46E	51 59N	25 31E	615277	24836	165 58	47 4	ND	ND	2.818
74	12 15	49.119	51 23.69N	25 47.00E	51 50N	25 35E	615269	24836	166 2	47 9	ND	ND	2.813
75	12 15	51.350	51 14.85N	25 50.50E	51 41N	25 39E	615264	24836	166 5	47 14	ND	ND	2.818
76	12 15	53.579	51 6.01N	25 53.97E	51 32N	25 42E	615264	24836	166 9	47 18	ND	ND	2.818

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

FRAME EPHEMERIS MISSION 1809-2

PASS 96D AFT 12AUG64

ID 27

LIST DATE 07MAY65 PAGE 148

FRM	Z TIME	DTIM	CAMERA	FORMAT	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI	SEC	MILS	LAT	DEG MIN	DEG	LONG	DEG	MI	DEG	MIN	DEG	RATE
1	0 36 28.668	4140	11 27.045	145 56.10W	10	49S 146 3W	871331	24253	173 17	41 34	ND	1.518
2	0 36 32.808	4140	11 43.525	145 54.15W	11	65 146 1W	875397	24248	173 17	41 23	ND	1.518
3	0 36 36.343	3535	11 57.685	145 52.43W	11	205 145 59W	875166	24244	173 16	41 14	ND	1.777
4	0 36 39.728	3385	12 11.075	145 50.83W	11	335 145 58W	876863	24240	173 15	41 5	ND	1.856
5	0 36 43.077	3350	12 24.405	145 49.23W	11	465 145 56W	878546	24237	173 15	40 56	ND	1.876
6	0 36 46.407	3330	12 37.655	145 47.63W	11	595 145 55W	880223	24233	173 14	40 47	ND	1.887
7	0 36 49.733	3326	12 50.885	145 46.03W	12	135 145 53W	881901	24229	173 13	40 38	ND	1.889
8	0 36 53.053	3319	13 4.085	145 44.42W	12	265 145 52W	883579	24225	173 12	40 29	ND	1.893
9	0 36 56.383	3330	13 17.325	145 42.81W	12	395 145 50W	885265	24221	173 12	40 20	ND	1.887
10	0 36 59.707	3325	13 30.535	145 41.20W	12	525 145 48W	886952	24218	173 11	40 11	ND	1.890
11	0 37 3.037	3330	13 43.775	145 39.58W	13	55 145 47W	888645	24214	173 10	40 2	ND	1.887
12	0 37 6.372	3335	13 57.025	145 37.96W	13	185 145 45W	890343	24210	173 10	39 53	ND	1.884
13	0 37 9.718	3345	14 10.315	145 36.32W	13	325 145 44W	892050	24206	173 9	39 43	ND	1.878
14	0 37 13.063	3345	14 23.605	145 34.68W	13	455 145 42W	893761	24202	173 8	39 34	ND	1.878
15	0 37 16.412	3350	14 36.985	145 33.04W	13	585 145 40W	895476	24198	173 7	39 25	ND	1.876
16	0 37 19.769	3356	14 50.235	145 31.38W	14	115 145 39W	897198	24195	173 6	39 16	ND	1.872
17	0 37 23.138	3369	15 3.605	145 29.72W	14	255 145 37W	898930	24191	173 6	39 6	ND	1.865
18	0 37 26.503	3365	15 16.965	145 28.05W	14	385 145 35W	900662	24187	173 5	38 57	ND	1.867
19	0 37 29.883	3380	15 30.375	145 26.37W	14	515 145 34W	902406	24183	173 4	38 48	ND	1.859
20	0 37 33.268	3385	15 43.805	145 24.68W	15	55 145 32W	904155	24179	173 3	38 38	ND	1.856
21	0 37 36.657	3390	15 57.245	145 22.99W	15	185 145 30W	905909	24175	173 2	38 29	ND	1.853
22	0 37 40.053	3395	16 10.715	145 21.29W	15	315 145 29W	907669	24171	173 1	38 19	ND	1.851
23	0 37 43.457	3405	16 24.215	145 19.57W	15	455 145 27W	909436	24167	173 0	38 10	ND	1.845
24	0 37 46.867	3410	16 37.725	145 17.85W	15	585 145 25W	911211	24163	172 59	38 0	ND	1.843
25	0 37 50.287	3420	16 51.275	145 16.12W	16	125 145 24W	912992	24159	172 58	37 51	ND	1.837
26	0 37 53.707	3420	17 4.825	145 14.38W	16	255 145 22W	914777	24155	172 57	37 41	ND	1.837
27	0 37 57.143	3435	17 18.435	145 12.63W	16	395 145 20W	916572	24151	172 56	37 31	ND	1.829
28	0 38 0.577	3435	17 32.045	145 10.87W	16	525 145 19W	918370	24147	172 55	37 22	ND	1.829
29	0 38 4.032	3455	17 45.715	145 9.10W	17	65 145 17W	920181	24143	172 54	37 12	ND	1.819
30	0 38 7.482	3450	17 59.375	145 7.32W	17	195 145 15W	921993	24139	172 53	37 2	ND	1.821
31	0 38 10.942	3460	18 13.065	145 5.53W	17	335 145 13W	923812	24135	172 52	36 52	ND	1.816
32	0 38 14.407	3465	18 26.775	145 3.74W	17	475 145 12W	925637	24131	172 51	36 42	ND	1.813
33	0 38 17.888	3480	18 40.545	145 1.92W	18	05 145 10W	927473	24127	172 50	36 32	ND	1.806
34	0 38 21.362	3475	18 54.285	145 0.11W	18	145 145 8W	929307	24122	172 49	36 22	ND	1.808
35	0 38 24.854	3491	19 8.095	144 58.28W	18	285 145 6W	931154	24118	172 48	36 12	ND	1.808
36	0 38 28.353	3499	19 21.925	144 56.43W	18	415 145 4W	933007	24114	172 47	36 2	ND	1.796
37	0 38 31.862	3510	19 35.795	144 54.58W	18	555 145 3W	934869	24110	172 45	35 52	ND	1.790
38	0 38 35.367	3505	19 49.645	144 52.72W	19	95 145 1W	936731	24106	172 44	35 42	ND	1.793
39	0 38 38.888	3520	20 3.545	144 50.84W	19	235 144 59W	938603	24102	172 43	35 32	ND	1.785
40	0 38 42.418	3530	20 17.485	144 48.95W	19	375 144 57W	940483	24097	172 42	35 22	ND	1.780
41	0 38 45.958	3533	20 31.435	144 47.05W	19	515 144 55W	942366	24093	172 41	35 12	ND	1.778

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 990 AFT 12AUG64

FRAME EPHMERIS MISSION 1809-2

ID 27

LIST DATE 07MAY65 PAGE 149

FRM	Z TIME	DTIM	CAMERA	FORMAT	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI	SEC	MILS	DEG MIN	DEG MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
1	4 51 58.696	2885	54 48.98N	133 21.98E	616662	24831	164 29	45 26	ND	ND	ND	2.178
2	4 51 53.581	2885	54 37.64N	133 27.40E	616630	24831	164 35	45 33	ND	ND	ND	2.178
3	4 51 56.071	2490	54 27.84N	133 32.04E	616605	24831	164 39	45 39	ND	ND	ND	2.523
4	4 51 58.437	2365	54 18.53N	133 36.40E	616584	24831	164 44	45 45	ND	ND	ND	2.657
5	4 52 0.742	2306	54 9.46N	133 40.62E	616568	24831	164 48	45 51	ND	ND	ND	2.725
6	4 52 3.026	2284	54 0.46N	133 44.76E	616552	24832	164 53	45 56	ND	ND	ND	2.751
7	4 52 5.291	2265	53 51.54N	133 48.84E	616542	24832	164 57	46 2	ND	ND	ND	2.774
8	4 52 7.557	2265	53 42.61N	133 52.89E	616534	24832	165 1	46 8	ND	ND	ND	2.774
9	4 52 9.812	2255	53 33.73N	133 56.88E	616528	24832	165 5	46 13	ND	ND	ND	2.786
10	4 52 12.066	2255	53 24.83N	134 0.84E	616525	24832	165 9	46 19	ND	ND	ND	2.786
11	4 52 14.316	2250	53 15.96N	134 4.76E	616524	24832	165 13	46 24	ND	ND	ND	2.792
12	4 52 16.566	2250	53 7.08N	134 8.65E	616527	24832	165 17	46 30	ND	ND	ND	2.792
13	4 52 18.816	2250	52 58.20N	134 12.51E	616532	24832	165 21	46 35	ND	ND	ND	2.792
14	4 52 21.066	2250	52 49.31N	134 16.34E	616540	24832	165 25	46 40	ND	ND	ND	2.792
15	4 52 23.308	2241	52 40.46N	134 20.13E	616550	24832	165 29	46 46	ND	ND	ND	2.804
16	4 52 25.558	2250	52 31.57N	134 23.90E	616564	24832	165 33	46 51	ND	ND	ND	2.792
17	4 52 27.803	2245	52 22.70N	134 27.63E	616579	24832	165 37	46 57	ND	ND	ND	2.792
18	4 52 30.048	2245	52 13.82N	134 31.34E	616598	24832	165 41	47 2	ND	ND	ND	2.792
19	4 52 32.286	2239	52 4.97N	134 35.00E	616619	24832	165 45	47 7	ND	ND	ND	2.792
20	4 52 34.536	2250	51 56.07N	134 38.66E	616644	24832	165 48	47 13	ND	ND	ND	2.805
21	4 52 36.776	2240	51 47.20N	134 42.27E	616670	24831	165 52	47 18	ND	ND	ND	2.805
22	4 52 39.021	2245	51 38.31N	134 45.87E	616699	24831	165 56	47 23	ND	ND	ND	2.792
23	4 52 41.262	2240	51 29.44N	134 49.43E	616732	24831	165 59	47 29	ND	ND	ND	2.805
24	4 52 43.507	2245	51 20.55N	134 52.97E	616767	24831	166 3	47 34	ND	ND	ND	2.792
25	4 52 45.747	2241	51 11.67N	134 56.48E	616805	24831	166 7	47 39	ND	ND	ND	2.807
26	4 52 47.991	2244	51 2.78N	134 59.96E	616845	24831	166 10	47 44	ND	ND	ND	2.807
27	4 52 50.231	2240	50 53.90N	135 3.42E	616888	24831	166 14	47 49	ND	ND	ND	2.805
28	4 52 52.477	2245	50 45.00N	135 6.85E	616934	24831	166 17	47 55	ND	ND	ND	2.792
29	4 52 54.717	2240	50 36.11N	135 10.26E	616982	24831	166 21	48 0	ND	ND	ND	2.805
30	4 52 56.962	2240	50 27.20N	135 13.64E	617034	24831	166 24	48 5	ND	ND	ND	2.792
31	4 52 59.201	2240	50 18.32N	135 17.00E	617088	24831	166 28	48 10	ND	ND	ND	2.805
32	4 53 1.446	2245	50 9.41N	135 20.33E	617145	24831	166 31	48 15	ND	ND	ND	2.792
33	4 53 3.687	2240	50 0.51N	135 23.64E	617204	24830	166 35	48 20	ND	ND	ND	2.805
34	4 53 5.932	2245	49 51.60N	135 26.93E	617266	24830	166 38	48 25	ND	ND	ND	2.792
35	4 53 8.172	2240	49 42.70N	135 30.19E	617332	24830	166 41	48 30	ND	ND	ND	2.805
36	4 53 10.411	2240	49 33.80N	135 33.42E	617399	24830	166 45	48 35	ND	ND	ND	2.792
37	4 53 12.656	2245	49 24.88N	135 36.64E	617470	24830	166 48	48 40	ND	ND	ND	2.805
38	4 53 14.896	2245	49 15.97N	135 39.83E	617544	24830	166 51	48 45	ND	ND	ND	2.792
39	4 53 17.142	2245	49 7.04N	135 43.01E	617620	24830	166 54	48 50	ND	ND	ND	2.792
40	4 53 19.387	2245	48 58.11N	135 46.16E	617699	24829	166 58	48 55	ND	ND	ND	2.805
41	4 53 21.626	2240	48 49.20N	135 49.28E	617781	24829	167 1	49 0	ND	ND	ND	2.805
42	4 53 23.871	2245	48 40.27N	135 52.39E	617865	24829	167 4	49 5	ND	ND	ND	2.792
43	4 53 26.111	2240	48 31.35N	135 55.47E	617952	24829	167 7	49 10	ND	ND	ND	2.805
44	4 53 28.356	2245	48 22.42N	135 58.54E	618043	24829	167 10	49 15	ND	ND	ND	2.792
45	4 53 30.602	2245	48 13.48N	136 1.58E	618135	24828	167 14	49 20	ND	ND	ND	2.792

TOP SECRET

HANDLE VIA
TALINT CONTROL ONLY

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

FRM	2 TIME			DTIM	CAMERA NADR			FRAME EPHEMERIS			MISSION	1089-2	ID 27	LIST DATE 07MAY65			PAGE	158							
	HR	MI	SEC		LAT	MIN	DEG	LONG	MIN	DEG				LONG	ALTITUDE	VELOC			DEG	MI	SUN/	DEG	MIN	DEG	MIN
46	4	53	32.842	2248	48	4.55N	136	4.60E	48	31N	135	54E	618231	24828	167	17	49	25	ND	ND	ND	ND	ND	ND	2.805
47	4	53	35.087	2245	47	55.61N	136	7.60E	48	22N	135	57E	618329	24828	167	20	49	29	ND	ND	ND	ND	ND	ND	2.799
48	4	53	37.326	2248	47	46.69N	136	10.58E	48	13N	136	0E	618430	24828	167	23	49	34	ND	ND	ND	ND	ND	ND	2.805
49	4	53	39.566	2248	47	28.81N	136	16.47E	48	4N	136	3E	618534	24828	167	26	49	39	ND	ND	ND	ND	ND	ND	2.805
50	4	53	41.812	2245	47	19.86N	136	19.40E	47	46N	136	6E	618642	24827	167	32	49	44	ND	ND	ND	ND	ND	ND	2.799
51	4	53	44.057	2245	47	18.98N	136	22.30E	47	37N	136	12E	618864	24827	167	35	49	53	ND	ND	ND	ND	ND	ND	2.799
52	4	53	46.302	2245	47	1.95N	136	25.18E	47	28N	136	15E	618979	24827	167	38	49	58	ND	ND	ND	ND	ND	ND	2.799
53	4	53	48.547	2245	47	1.95N	136	28.05E	47	19N	136	18E	619097	24826	167	41	50	2	ND	ND	ND	ND	ND	ND	2.799
54	4	53	50.791	2245	46	53.88N	136	30.90E	47	10N	136	21E	619218	24826	167	43	50	7	ND	ND	ND	ND	ND	ND	2.799
55	4	53	53.041	2250	46	44.02N	136	33.72E	47	2N	136	24E	619343	24826	167	46	50	11	ND	ND	ND	ND	ND	ND	2.799
56	4	53	55.286	2245	46	35.08N	136	36.53E	46	53N	136	27E	619469	24826	167	49	50	16	ND	ND	ND	ND	ND	ND	2.799
57	4	53	57.531	2245	46	26.18N	136	39.32E	46	44N	136	29E	619599	24825	167	52	50	21	ND	ND	ND	ND	ND	ND	2.799
58	4	53	59.777	2246	46	17.13N	136	42.10E	46	35N	136	32E	619731	24825	167	55	50	25	ND	ND	ND	ND	ND	ND	2.794
59	4	54	2.026	2249	46	8.15N	136	44.86E	46	26N	136	35E	619867	24825	167	58	50	30	ND	ND	ND	ND	ND	ND	2.793
60	4	54	4.276	2250	45	59.16N	136	47.60E	46	17N	136	38E	620004	24824	168	0	50	34	ND	ND	ND	ND	ND	ND	2.793
61	4	54	6.526	2250	45	50.17N	136	50.32E	46	8N	136	41E	620146	24824	168	3	50	39	ND	ND	ND	ND	ND	ND	2.793
62	4	54	8.776	2250	45	41.18N	136	53.03E	45	59N	136	43E	620290	24824	168	6	50	43	ND	ND	ND	ND	ND	ND	2.793
63	4	54	11.026	2250	45	32.19N	136	55.71E	45	50N	136	46E	620436	24823	168	9	50	48	ND	ND	ND	ND	ND	ND	2.793
64	4	54	13.276	2250	45	23.19N	136	58.39E	45	41N	136	49E	620586	24823	168	11	50	52	ND	ND	ND	ND	ND	ND	2.793
65	4	54	15.526	2250	45	14.28N	136	1.03E	45	32N	136	52E	620739	24823	168	14	50	56	ND	ND	ND	ND	ND	ND	2.799
66	4	54	17.771	2245	45	5.22N	137	3.67E	45	23N	136	54E	620894	24822	168	17	51	1	ND	ND	ND	ND	ND	ND	2.793
67	4	54	20.021	2250	44	20.18N	137	6.30E	45	14N	136	57E	621052	24822	168	19	51	5	ND	ND	ND	ND	ND	ND	2.786
68	4	54	22.276	2255	44	47.28N	137	8.90E	45	5N	137	0E	621214	24822	168	22	51	9	ND	ND	ND	ND	ND	ND	2.793
69	4	54	24.526	2250	44	38.28N	137	11.49E	44	56N	137	2E	621378	24821	168	25	51	14	ND	ND	ND	ND	ND	ND	2.793
70	4	54	26.776	2250	44	29.28N	137	14.07E	44	47N	137	5E	621545	24821	168	27	51	18	ND	ND	ND	ND	ND	ND	2.786
71	4	54	29.031	2255	44	20.18N	137	16.63E	44	38N	137	7E	621715	24821	168	30	51	22	ND	ND	ND	ND	ND	ND	2.786
72	4	54	31.286	2255	44	11.15N	137	19.17E	44	29N	137	10E	621888	24820	168	32	51	26	ND	ND	ND	ND	ND	ND	2.786
73	4	54	33.541	2255	44	2.12N	137	21.70E	44	20N	137	13E	622063	24820	168	35	51	31	ND	ND	ND	ND	ND	ND	2.793
74	4	54	35.791	2250	43	53.12N	137	24.21E	44	11N	137	15E	622242	24819	168	37	51	35	ND	ND	ND	ND	ND	ND	2.786
75	4	54	38.047	2255	43	44.08N	137	26.72E	44	2N	137	18E	622424	24819	168	40	51	39	ND	ND	ND	ND	ND	ND	2.774
76	4	54	40.312	2265	43	35.01N	137	29.20E	43	53N	137	20E	622609	24819	168	42	51	43	ND	ND	ND	ND	ND	ND	2.791
77	4	54	42.563	2251	43	25.99N	137	31.67E	43	44N	137	23E	622796	24818	168	45	51	47	ND	ND	ND	ND	ND	ND	2.786
78	4	54	44.816	2254	43	16.96N	137	34.12E	43	35N	137	25E	622986	24818	168	47	51	51	ND	ND	ND	ND	ND	ND	2.788
79	4	54	47.071	2255	43	7.93N	137	36.56E	43	26N	137	28E	623170	24817	168	50	51	55	ND	ND	ND	ND	ND	ND	2.788
80	4	54	49.331	2260	42	58.87N	137	38.99E	43	17N	137	30E	623358	24817	168	52	51	59	ND	ND	ND	ND	ND	ND	2.786
81	4	54	51.587	2255	42	49.83N	137	41.40E	43	8N	137	33E	623575	24816	168	55	52	3	ND	ND	ND	ND	ND	ND	2.786
82	4	54	53.842	2255	42	40.79N	137	43.79E	42	59N	137	35E	623777	24816	168	57	52	7	ND	ND	ND	ND	ND	ND	2.786
83	4	54	56.098	2256	42	31.75N	137	46.18E	42	49N	137	37E	623983	24816	168	59	52	11	ND	ND	ND	ND	ND	ND	2.785
84	4	54	58.361	2264	42	22.67N	137	48.55E	42	48N	137	39E	624191	24815	169	2	52	15	ND	ND	ND	ND	ND	ND	2.775
85	4	55	0.621	2260	42	13.61N	137	50.91E	42	31N	137	42E	624402	24815	169	4	52	19	ND	ND	ND	ND	ND	ND	2.788
86	4	55	2.882	2260	42	4.54N	137	53.26E	42	22N	137	45E	624616	24814	169	6	52	23	ND	ND	ND	ND	ND	ND	2.788
87	4	55	5.142	2265	41	55.47N	137	55.59E	42	13N	137	47E	624834	24814	169	9	52	27	ND	ND	ND	ND	ND	ND	2.774
88	4	55	7.406	2265	41	46.39N	137	57.91E	42	4N	137	49E	625054	24813	169	11	52	31	ND	ND	ND	ND	ND	ND	2.780
89	4	55	9.666	2260	41	37.32N	137	0.21E	42	55N	137	52E	625277	24813	169	13	52	34	ND	ND	ND	ND	ND	ND	2.774
90	4	55	11.932	2265	41	28.23N	138		41	55N	137								ND	ND	ND	ND	ND	ND	2.774

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 99D AFT 12AUG64

FRAME EPHEMERIS MISSION 1889-2

ID 27

LIST DATE 07MAY65 PAGE 151

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					MIN	DEG	MI	DEG	MI	DEG		MIN
91	4	55	14.196	2265	41	19.14N	138	2.51E	41	46N	137	54E	625503	24812	169	16	52	38	ND	ND	ND	2.774
92	4	55	16.462	2265	41	18.84N	138	4.79E	41	37N	137	56E	625732	24812	169	18	52	42	ND	ND	ND	2.774
93	4	55	18.727	2265	41	0.95N	138	7.06E	41	28N	137	59E	625965	24811	169	20	52	46	ND	ND	ND	2.774
94	4	55	20.991	2265	48	51.85N	138	9.31E	41	19N	138	1E	626288	24811	169	22	52	49	ND	ND	ND	2.774
95	4	55	23.262	2270	48	42.74N	138	11.56E	41	18N	138	3E	626439	24810	169	24	52	53	ND	ND	ND	2.768

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

FRM	2 TIME	DTM	CAMERA	NADR	FORMAT	CENTER	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR	MI	SEC	MIN	DEG	MIN	DEG	FEET	F/S	DEG	MI	DEG	MIN	DEG	RATE
1	6	25	13.117	43	52.23N	114	33.41E							2.004
2	6	25	16.252	43	39.67N	114	36.90E							2.004
3	6	25	18.813	43	29.42N	114	39.72E							2.454
4	6	25	21.219	43	19.78N	114	42.36E							2.611
5	6	25	23.567	43	10.37N	114	44.92E							2.675
6	6	25	25.883	43	1.09N	114	47.43E							2.714
7	6	25	28.184	42	51.87N	114	49.91E							2.731
8	6	25	30.478	42	42.67N	114	52.36E							2.739
9	6	25	32.768	42	33.49N	114	54.79E							2.744
10	6	25	35.053	42	24.33N	114	57.21E							2.750
11	6	25	37.338	42	15.16N	114	59.61E							2.750
12	6	25	39.617	42	6.02N	115	1.99E							2.756
13	6	25	41.902	41	56.85N	115	4.36E							2.761
14	6	25	44.179	41	47.72N	115	6.71E							2.756
15	6	25	46.463	41	38.56N	115	9.05E							2.756
16	6	25	48.742	41	29.41N	115	11.38E							2.756
17	6	25	51.022	41	20.26N	115	13.69E							2.756
18	6	25	53.303	41	11.10N	115	15.99E							2.761
19	6	25	55.582	40	1.95N	115	18.27E							2.761
20	6	25	57.858	40	52.81N	115	20.54E							2.745
21	6	26	0.147	40	43.62N	115	22.80E							2.745
22	6	26	2.424	40	34.48N	115	25.08E							2.751
23	6	26	4.707	40	25.31N	115	27.28E							2.751
24	6	26	6.987	40	16.15N	115	29.50E							2.756
25	6	26	9.272	40	6.97N	115	31.71E							2.756
26	6	26	11.553	39	57.81N	115	33.91E							2.756
27	6	26	13.832	39	48.65N	115	36.09E							2.750
28	6	26	16.117	39	39.46N	115	38.26E							2.750
29	6	26	18.402	39	30.28N	115	40.43E							2.755
30	6	26	20.684	39	21.11N	115	42.57E							2.745
31	6	26	22.973	39	11.90N	115	44.72E							2.750
32	6	26	25.258	39	2.72N	115	46.84E							2.743
33	6	26	27.549	38	53.50N	115	48.96E							2.745
34	6	26	29.838	38	44.30N	115	51.07E							2.750
35	6	26	32.122	38	35.11N	115	53.16E							2.745
36	6	26	34.417	38	25.88N	115	55.25E							2.738
37	6	26	36.707	38	16.66N	115	57.32E							2.738
38	6	26	38.998	38	7.45N	115	59.39E							2.744
39	6	26	41.288	37	58.23N	116	1.44E							2.744
40	6	26	43.579	37	49.01N	116	3.48E							2.739
41	6	26	45.873	37	39.78N	116	5.51E							2.738
42	6	26	48.168	37	30.54N	116	7.54E							2.738
43	6	26	50.458	37	21.33N	116	9.54E							2.744
44	6	26	52.759	37	12.06N	116	11.55E							2.732
45	6	26	55.059	37	2.80N	116	13.55E							2.732

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

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HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65
MISSION 1009-2
ID 27
LIST DATE 07MAY65
PAGE 153

PASS 1000 AFT 12AUG64

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

FRM	Z TIME	DTIM	CAMERA NADIR	FORMAT	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI	SEC	MILS	LAT	MIN	DEG	MIN	DEG	MI	DEG	MIN	DEG	RATE
46	6 26	57.354	36 53.56N	116 15.53E	37 21N	116 08E	633945	24793	170 15	54 21	54 21	2.738
47	6 26	59.658	36 44.28N	116 17.51E	37 12N	116 10E	634270	24792	170 17	54 24	54 24	2.726
48	6 27	1.958	36 35.82N	116 19.47E	37 2N	116 12E	634597	24791	170 19	54 27	54 27	2.732
49	6 27	4.264	36 25.74N	116 21.43E	36 53N	116 14E	634928	24791	170 21	54 30	54 30	2.726
50	6 27	6.563	36 16.47N	116 23.37E	36 44N	116 16E	635282	24790	170 23	54 33	54 33	2.732
51	6 27	8.868	36 7.19N	116 25.31E	36 35N	116 18E	635599	24789	170 25	54 36	54 36	2.726
52	6 27	11.174	35 57.90N	116 27.24E	36 25N	116 20E	635940	24788	170 27	54 38	54 38	2.726
53	6 27	13.483	35 48.59N	116 29.16E	36 16N	116 22E	636284	24788	170 28	54 41	54 41	2.720
54	6 28	11.979	31 52.69N	117 14.82E	32 21N	117 08E	646839	24765	171 10	55 39	55 39	0.107
55	6 28	15.208	31 39.66N	117 17.19E	32 08N	117 10E	646636	24764	171 12	55 42	55 42	1.946
56	6 28	17.844	31 29.82N	117 19.11E	31 57N	117 12E	647128	24763	171 14	55 44	55 44	2.385
57	6 28	20.333	31 18.97N	117 20.91E	31 47N	117 14E	647595	24762	171 16	55 45	55 45	2.523
58	6 28	22.755	31 9.28N	117 22.66E	31 37N	117 16E	648055	24761	171 17	55 47	55 47	2.595
59	6 28	25.153	30 59.52N	117 24.38E	31 28N	117 18E	648511	24760	171 19	55 49	55 49	2.619
60	6 28	27.538	30 49.89N	117 26.08E	31 18N	117 19E	648970	24759	171 20	55 51	55 51	2.634
61	6 28	29.918	30 40.28N	117 27.77E	31 08N	117 21E	649431	24758	171 22	55 52	55 52	2.640
62	6 28	32.293	30 30.69N	117 29.46E	30 59N	117 23E	649894	24757	171 23	55 54	55 54	2.646
63	6 28	34.668	30 21.18N	117 31.13E	30 49N	117 24E	650360	24755	171 25	55 55	55 55	2.646
64	6 28	37.043	30 11.51N	117 32.80E	30 40N	117 26E	650830	24754	171 26	55 57	55 57	2.646
65	6 28	39.414	30 1.93N	117 34.45E	30 30N	117 28E	651302	24753	171 28	55 58	55 58	2.650
66	6 28	41.788	29 52.35N	117 36.10E	30 21N	117 29E	651778	24752	171 29	56 0	56 0	2.647
67	6 28	44.163	29 42.76N	117 37.75E	30 11N	117 31E	652257	24751	171 30	56 1	56 1	2.646
68	6 28	46.533	29 33.18N	117 39.38E	30 01N	117 33E	652739	24750	171 32	56 2	56 2	2.651
69	6 28	48.903	29 23.61N	117 41.01E	29 52N	117 34E	653225	24749	171 33	56 4	56 4	2.651
70	6 28	51.278	29 14.02N	117 42.63E	29 42N	117 36E	653714	24748	171 35	56 5	56 5	2.646
71	6 28	53.653	29 4.43N	117 44.25E	29 33N	117 38E	654206	24747	171 36	56 6	56 6	2.646
72	6 28	56.028	28 54.83N	117 45.86E	29 23N	117 39E	654702	24746	171 37	56 7	56 7	2.646
73	6 28	58.408	28 45.22N	117 47.46E	29 14N	117 41E	655202	24744	171 39	56 8	56 8	2.640
74	6 29	0.788	28 35.60N	117 49.06E	29 04N	117 43E	655702	24743	171 40	56 9	56 9	2.640
75	6 29	3.168	28 25.99N	117 50.66E	28 54N	117 44E	656213	24742	171 41	56 10	56 10	2.640
76	6 29	5.549	28 16.37N	117 52.24E	28 45N	117 46E	656723	24741	171 43	56 11	56 11	2.640
77	6 29	7.935	28 6.73N	117 53.82E	28 35N	117 47E	657237	24740	171 44	56 12	56 12	2.633
78	6 29	10.318	27 57.10N	117 55.40E	28 26N	117 49E	657755	24739	171 45	56 13	56 13	2.636
79	6 29	12.703	27 47.47N	117 56.97E	28 16N	117 51E	658276	24737	171 47	56 14	56 14	2.634
80	6 29	15.094	27 37.81N	117 58.53E	28 06N	117 52E	658802	24736	171 48	56 15	56 15	2.629
81	6 29	17.483	27 28.15N	118 0.09E	27 57N	117 54E	659381	24735	171 49	56 16	56 16	2.629
82	6 29	19.868	27 18.52N	118 1.64E	27 47N	117 55E	659861	24734	171 50	56 17	56 17	2.634
83	6 29	22.264	27 8.84N	118 3.19E	27 37N	117 57E	660398	24733	171 52	56 17	56 17	2.623
84	6 29	24.658	26 59.16N	118 4.74E	27 28N	117 58E	660938	24731	171 53	56 18	56 18	2.623
85	6 29	27.049	26 49.58N	118 6.27E	27 18N	118 0E	661479	24730	171 54	56 18	56 18	2.629
86	6 29	29.448	26 39.81N	118 7.81E	27 08N	118 1E	662027	24729	171 55	56 19	56 19	2.618
87	6 29	31.849	26 30.11N	118 9.34E	26 59N	118 3E	662579	24728	171 57	56 20	56 20	2.618
88	6 29	34.249	26 20.41N	118 10.86E	26 49N	118 5E	663133	24726	171 58	56 20	56 20	2.617
89	6 29	36.653	26 10.69N	118 12.38E	26 39N	118 6E	663692	24725	171 59	56 20	56 20	2.614
90	6 29	39.055	26 0.98N	118 13.89E	26 30N	118 8E	664253	24724	172 0	56 21	56 21	2.617

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

FRM	Z TIME		DTIM	CAMERA NADIR		FORMAT CENTER		ALTITUDE		AZIMUTH		SUN/		PITCH		ROLL		YAW		SCAN
	HR	MI	SEC	MILS	DEG	MIN	DEG	LAT	MIN	DEG	MIN	DEG	MI	DEG	MI	DEG	MIN	DEG	MIN	RATE
91	6	29	41.464	2489	25	51.25N	118	15.40E	26	28N	118	9E	664819	24722	172	2	56	21	ND	2.608
92	6	29	43.864	2401	25	41.55N	118	16.90E	26	18N	118	11E	665387	24721	172	3	56	22	ND	2.617
93	6	29	46.278	2414	25	31.79N	118	18.40E	26	1N	118	12E	665962	24728	172	4	56	22	ND	2.603
94	6	29	48.688	2410	25	22.85N	118	19.89E	25	51N	118	14E	666538	24718	172	5	56	22	ND	2.687
95	6	29	51.104	2415	25	12.29N	118	21.38E	25	41N	118	15E	667119	24717	172	6	56	22	ND	2.602
96	6	29	53.519	2415	25	2.53N	118	22.87E	25	31N	118	17E	667784	24716	172	7	56	22	ND	2.602
97	6	29	55.938	2428	24	52.75N	118	24.35E	25	22N	118	18E	668293	24714	172	9	56	23	ND	2.596
98	6	29	58.354	2415	24	42.98N	118	25.83E	25	12N	118	20E	668884	24713	172	10	56	23	ND	2.602
99	6	30	0.773	2428	24	33.28N	118	27.30E	25	2N	118	21E	669488	24712	172	11	56	23	ND	2.596
100	6	30	3.198	2425	24	23.40N	118	28.77E	24	52N	118	23E	670081	24710	172	12	56	23	ND	2.591
101	6	30	5.623	2425	24	13.68N	118	30.23E	24	43N	118	24E	670685	24709	172	13	56	23	ND	2.591
102	6	30	8.043	2428	24	3.82N	118	31.69E	24	33N	118	26E	671291	24708	172	14	56	22	ND	2.596
103	6	30	10.475	2431	23	53.09N	118	33.14E	24	23N	118	27E	671903	24706	172	15	56	22	ND	2.585
104	6	30	12.908	2434	23	44.15N	118	34.60E	24	13N	118	28E	672528	24705	172	16	56	22	ND	2.581
105	6	30	15.349	2430	23	34.29N	118	36.05E	24	3N	118	30E	673141	24703	172	17	56	22	ND	2.575
106	6	30	17.778	2430	23	24.47N	118	37.49E	23	54N	118	31E	673763	24702	172	18	56	22	ND	2.586
107	6	30	20.215	2436	23	14.62N	118	38.93E	23	44N	118	33E	674398	24701	172	20	56	21	ND	2.579
108	6	30	22.658	2444	23	4.74N	118	40.36E	23	34N	118	34E	675023	24699	172	21	56	21	ND	2.571
109	6	30	25.099	2448	22	54.88N	118	41.79E	23	24N	118	36E	675657	24698	172	22	56	21	ND	2.575
110	6	30	27.543	2445	22	45.08N	118	43.22E	23	14N	118	37E	676297	24696	172	23	56	20	ND	2.578
111	6	30	29.988	2445	22	35.11N	118	44.65E	23	4N	118	39E	676948	24695	172	24	56	20	ND	2.578
112	6	30	32.438	2450	22	25.21N	118	46.07E	22	55N	118	40E	677588	24693	172	25	56	19	ND	2.565
113	6	30	34.885	2446	22	15.32N	118	47.48E	22	45N	118	41E	678238	24692	172	26	56	19	ND	2.568
114	6	30	37.339	2454	22	5.48N	118	48.90E	22	35N	118	43E	678894	24690	172	27	56	18	ND	2.560
115	6	30	39.793	2455	21	55.48N	118	50.30E	22	25N	118	44E	679553	24689	172	28	56	17	ND	2.559
116	6	30	42.248	2455	21	45.56N	118	51.71E	22	15N	118	46E	680215	24687	172	29	56	16	ND	2.559
117	6	30	44.714	2465	21	35.59N	118	53.12E	22	5N	118	47E	680885	24686	172	30	56	16	ND	2.549
118	6	30	47.168	2455	21	25.67N	118	54.51E	21	55N	118	49E	681554	24684	172	31	56	15	ND	2.559
119	6	30	49.634	2465	21	15.78N	118	55.91E	21	45N	118	50E	682238	24683	172	32	56	14	ND	2.549
120	6	30	52.099	2465	21	5.74N	118	57.30E	21	35N	118	51E	682909	24681	172	33	56	13	ND	2.549
121	6	30	54.568	2478	20	55.76N	118	58.69E	21	25N	118	53E	683593	24679	172	34	56	12	ND	2.544
122	6	30	57.043	2475	20	45.75N	119	0.08E	21	15N	118	54E	684282	24678	172	35	56	11	ND	2.539
123	6	30	59.514	2478	20	35.77N	119	1.46E	21	5N	118	55E	684974	24676	172	36	56	10	ND	2.544

PASS 1000 AFT 12AUG64

FRAME EPHEMERIS MISSION 1009-2

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TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

MISSION 1809-2

ID 27

LIST DATE 07MAY65

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PASS 1010 AFT 12AU664

FRM	Z TIME	DTIM	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	MIN	DEG	MIN	RATE
1	7 51	47.564	59	50.29N	84	54.94E	619022	24825	161	33	42	7	ND	ND	ND	2.060	
2	7 51	50.614	59	38.50N	85	2.70E	618877	24825	161	41	42	15	ND	ND	ND	2.060	
3	7 51	53.135	59	28.74N	85	9.05E	618761	24826	161	48	42	22	ND	ND	ND	2.493	
4	7 51	55.585	59	19.56N	85	14.95E	618655	24826	161	54	42	29	ND	ND	ND	2.651	
5	7 51	57.814	59	10.61N	85	20.64E	618554	24826	162	0	42	35	ND	ND	ND	2.720	
6	7 52	0.104	59	1.73N	85	26.24E	618457	24826	162	6	42	41	ND	ND	ND	2.744	
7	7 52	2.369	58	52.95N	85	31.71E	618363	24827	162	11	42	47	ND	ND	ND	2.774	
8	7 52	4.630	58	44.17N	85	37.13E	618272	24827	162	17	42	53	ND	ND	ND	2.780	
9	7 52	6.881	58	35.43N	85	42.40E	618183	24827	162	22	43	0	ND	ND	ND	2.791	
10	7 52	9.135	58	26.67N	85	47.78E	618098	24827	162	28	43	6	ND	ND	ND	2.788	
11	7 52	11.383	58	17.93N	85	53.03E	618016	24827	162	33	43	12	ND	ND	ND	2.795	
12	7 52	13.631	58	9.19N	85	58.22E	617936	24828	162	39	43	18	ND	ND	ND	2.795	
13	7 52	15.874	58	0.46N	86	3.36E	617858	24828	162	44	43	24	ND	ND	ND	2.800	
14	7 52	18.117	57	51.72N	86	8.45E	617783	24828	162	49	43	30	ND	ND	ND	2.801	
15	7 52	20.362	57	42.98N	86	13.50E	617711	24828	162	54	43	36	ND	ND	ND	2.799	
16	7 52	22.605	57	34.23N	86	18.50E	617642	24828	163	0	43	42	ND	ND	ND	2.801	
17	7 52	24.843	57	25.51N	86	23.44E	617574	24829	163	5	43	48	ND	ND	ND	2.809	
18	7 52	27.082	57	16.77N	86	28.34E	617511	24829	163	10	43	54	ND	ND	ND	2.805	
19	7 52	29.322	57	8.03N	86	33.21E	617448	24829	163	15	44	0	ND	ND	ND	2.805	
20	7 52	31.563	56	59.28N	86	38.03E	617389	24829	163	20	44	5	ND	ND	ND	2.805	
21	7 52	33.798	56	50.54N	86	42.80E	617333	24829	163	25	44	11	ND	ND	ND	2.811	
22	7 52	36.037	56	41.79N	86	47.53E	617279	24829	163	30	44	17	ND	ND	ND	2.805	
23	7 52	38.277	56	33.03N	86	52.23E	617228	24829	163	35	44	23	ND	ND	ND	2.809	
24	7 52	40.515	56	24.28N	86	56.88E	617173	24830	163	39	44	29	ND	ND	ND	2.811	
25	7 52	42.749	56	15.53N	87	1.48E	617133	24830	163	44	44	35	ND	ND	ND	2.805	
26	7 52	44.989	56	6.76N	87	6.06E	617089	24830	163	49	44	41	ND	ND	ND	2.805	
27	7 52	47.229	55	57.98N	87	10.60E	617048	24830	163	54	44	46	ND	ND	ND	2.811	
28	7 52	49.465	55	49.22N	87	15.09E	617010	24830	163	58	44	52	ND	ND	ND	2.811	
29	7 52	51.699	55	40.46N	87	19.54E	616975	24830	164	3	44	58	ND	ND	ND	2.805	
30	7 52	53.939	55	31.68N	87	23.97E	616941	24830	164	7	44	4	ND	ND	ND	2.805	
31	7 52	56.180	55	22.88N	87	28.36E	616911	24830	164	12	44	10	ND	ND	ND	2.811	
32	7 52	58.414	55	14.11N	87	32.70E	616884	24830	164	16	44	15	ND	ND	ND	2.811	
33	7 53	0.649	55	5.34N	87	37.00E	616858	24830	164	21	45	21	ND	ND	ND	2.811	
34	7 53	2.885	54	56.55N	87	41.51E	616835	24831	164	25	45	27	ND	ND	ND	2.810	
35	7 53	5.120	54	47.77N	87	45.57E	616816	24831	164	30	45	32	ND	ND	ND	2.806	
36	7 53	7.359	54	38.97N	87	49.72E	616799	24831	164	34	45	38	ND	ND	ND	2.811	
37	7 53	9.595	54	30.17N	87	53.89E	616784	24831	164	38	45	44	ND	ND	ND	2.805	
38	7 53	11.834	54	21.36N	87	58.03E	616772	24831	164	43	45	49	ND	ND	ND	2.818	
39	7 53	14.064	54	12.58N	88	2.12E	616762	24831	164	47	45	55	ND	ND	ND	2.811	
40	7 53	16.300	54	3.78N	88	6.19E	616756	24831	164	51	46	0	ND	ND	ND	2.811	
41	7 53	18.534	53	54.98N	88	10.22E	616752	24831	164	55	46	6	ND	ND	ND	2.805	
42	7 53	20.774	53	46.16N	88	14.23E	616750	24831	164	59	46	12	ND	ND	ND	2.818	
43	7 53	23.005	53	37.37N	88	18.19E	616752	24831	165	3	46	17	ND	ND	ND	2.811	
44	7 53	25.239	53	28.56N	88	22.13E	616756	24831	165	8	46	23	ND	ND	ND	2.811	
45	7 53	27.470	53	19.76N	88	26.03E	616763	24831	165	12	46	28	ND	ND	ND	2.818	

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED
MISSION 1009-2
FRAME EPHMERIS

LIST DATE 07MAY65
PAGE 156

FRM	Z TIME	DTIM	CAMERA	NADIR	FORMAT	CENTER	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN RATE
HR MI SEC	MILS	DEG MIN	DEG MIN	DEG MIN	LAT	DEG MIN	DEG MIN	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	
46	7 53 29.789	2240	53 10.92N	88 29.92E	53 37N	88 17E	616771	24831	165 16	46 34	ND	ND	ND	2.895
47	7 53 31.940	2231	53 2.12N	88 33.76E	53 28N	88 21E	616783	24831	165 20	46 39	ND	ND	ND	2.816
48	7 53 34.180	2239	52 53.28N	88 37.59E	53 19N	88 25E	616798	24831	165 24	46 45	ND	ND	ND	2.833
49	7 53 36.397	2238	52 44.52N	88 41.34E	53 11N	88 29E	616810	24831	165 27	46 50	ND	ND	ND	2.833
50	7 55 28.145	03747	45 52.19N	91 9.93E	46 19N	91 0E	620015	24822	168 4	50 49	ND	ND	ND	2.017
51	7 55 23.260	3115	45 39.74N	91 13.70E	46 06N	91 4E	620088	24822	168 7	50 54	ND	ND	ND	2.469
52	7 55 25.805	2545	45 29.57N	91 16.76E	45 56N	91 7E	620988	24822	168 10	50 59	ND	ND	ND	2.629
53	7 55 28.194	2390	45 20.02N	91 19.61E	45 47N	91 10E	621153	24822	168 12	51 3	ND	ND	ND	2.732
54	7 55 30.524	2330	45 10.70N	91 22.37E	45 37N	91 13E	621317	24821	168 15	51 8	ND	ND	ND	2.697
55	7 55 32.024	2300	45 52.37N	91 27.74E	45 28N	91 16E	621483	24820	168 18	51 12	ND	ND	ND	2.750
56	7 55 35.109	2285	44 43.25N	91 30.39E	45 18N	91 21E	621819	24820	168 20	51 17	ND	ND	ND	2.762
57	7 55 37.390	2280	44 34.15N	91 33.02E	45 11N	91 24E	621991	24820	168 23	51 21	ND	ND	ND	2.768
58	7 55 39.664	2275	44 25.06N	91 35.62E	44 52N	91 26E	622166	24819	168 26	51 25	ND	ND	ND	2.774
59	7 55 41.935	2270	44 16.00N	91 38.20E	44 43N	91 29E	622342	24819	168 28	51 30	ND	ND	ND	2.768
60	7 55 44.199	2265	44 6.91N	91 40.77E	44 34N	91 32E	622523	24818	168 34	51 38	ND	ND	ND	2.768
61	7 55 46.470	2270	43 57.85N	91 43.32E	44 25N	91 34E	622706	24818	168 36	51 43	ND	ND	ND	2.774
62	7 55 48.739	2270	43 48.75N	91 45.86E	44 15N	91 37E	622892	24818	168 39	51 47	ND	ND	ND	2.779
63	7 55 51.005	2265	43 39.70N	91 48.37E	43 06N	91 39E	623080	24817	168 41	51 51	ND	ND	ND	2.769
64	7 55 53.266	2261	43 30.61N	91 50.88E	43 57N	91 42E	623272	24817	168 44	51 55	ND	ND	ND	2.773
65	7 55 55.534	2269	43 21.53N	91 53.37E	43 48N	91 44E	623467	24816	168 46	51 59	ND	ND	ND	2.775
66	7 55 57.801	2266	43 12.47N	91 55.84E	43 39N	91 47E	623664	24816	168 49	52 2	ND	ND	ND	2.774
67	7 56 0.064	2264	43 3.39N	91 58.29E	43 30N	91 49E	623864	24815	168 52	52 4	ND	ND	ND	2.773
68	7 56 2.329	2265	42 54.31N	92 0.73E	43 21N	91 52E	624067	24815	168 53	52 8	ND	ND	ND	2.774
69	7 56 4.596	2269	42 45.21N	92 3.17E	43 12N	91 54E	624275	24815	168 56	52 12	ND	ND	ND	2.774
70	7 56 6.864	2265	42 36.13N	92 5.58E	43 03N	91 57E	624484	24814	168 58	52 16	ND	ND	ND	2.774
71	7 56 9.130	2265	42 27.05N	92 7.98E	42 54N	91 59E	624696	24814	168 58	52 20	ND	ND	ND	2.774
72	7 56 11.395	2265	42 17.97N	92 10.36E	42 45N	92 0E	624910	24813	169 1	52 24	ND	ND	ND	2.768
73	7 56 13.659	2265	42 8.87N	92 12.73E	42 36N	92 0E	625129	24813	169 3	52 28	ND	ND	ND	2.774
74	7 56 15.938	2270	41 59.78N	92 15.09E	42 27N	92 0E	625349	24812	169 5	52 32	ND	ND	ND	2.774
75	7 56 18.194	2265	41 50.70N	92 17.43E	42 18N	92 0E	625573	24812	169 8	52 36	ND	ND	ND	2.768
76	7 56 20.459	2265	41 41.59N	92 19.76E	42 08N	92 0E	625800	24811	169 10	52 40	ND	ND	ND	2.768
77	7 56 22.729	2270	41 32.49N	92 22.08E	41 59N	92 0E	626030	24811	169 14	52 44	ND	ND	ND	2.774
78	7 56 24.999	2270	41 23.39N	92 24.43E	41 50N	92 0E	626263	24810	169 17	52 47	ND	ND	ND	2.768
79	7 56 27.265	2265	41 14.28N	92 26.67E	41 41N	92 0E	626499	24810	169 19	52 51	ND	ND	ND	2.768
80	7 56 29.534	2270	41 5.18N	92 28.95E	41 32N	92 0E	626737	24809	169 21	52 55	ND	ND	ND	2.768
81	7 56 31.800	2270	40 56.07N	92 31.21E	41 23N	92 0E	626979	24808	169 23	53 59	ND	ND	ND	2.768
82	7 56 34.069	2270	40 46.96N	92 33.47E	41 14N	92 0E	627224	24808	169 26	53 2	ND	ND	ND	2.768
83	7 56 36.340	2270	40 37.84N	92 35.71E	41 05N	92 0E	627471	24807	169 28	53 6	ND	ND	ND	2.762
84	7 56 38.609	2275	40 28.70N	92 37.94E	40 56N	92 0E	627723	24807	169 30	53 13	ND	ND	ND	2.762
85	7 56 40.885	2275	40 19.57N	92 40.16E	40 47N	92 0E	627977	24806	169 32	53 17	ND	ND	ND	2.762
86	7 56 43.159	2275	40 10.43N	92 42.36E	40 37N	92 0E	628234	24806	169 34	53 21	ND	ND	ND	2.762
87	7 56 45.435	2275	40 1.29N	92 44.56E	40 28N	92 0E	628494	24805	169 37	53 24	ND	ND	ND	2.762
88	7 56 47.709	2275	39 52.15N	92 46.74E	40 19N	92 0E	628757	24804	169 39	53 28	ND	ND	ND	2.756
89	7 56 49.984	2280	39 42.98N	92 48.91E	40 10N	92 0E	629024	24804	169 39	53 28	ND	ND	ND	2.756

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

TCS 84818-65

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 181D AFT 12AUG64

FRAME EPHEMERIS MISSION 1089-2

ID 27

LIST DATE 07MAY65 PAGE 157

FRM	2 TIME			DTIM	CAMERA NADIR			FORMAT CENTER			ALTITUDE VELOC			AZIMUTH SUNV/			PITCH		ROLL		YAW		SCAN RATE
	HR	MI	SEC		MILS	DEG	MIN	LONG	DEG	MIN	LONG	DEG	MIN	FEET	F/S	DEG	MI	DEG	MI	DEG	MIN	DEG	
91	7	56	54.539	2275	39	33.84N	92	51.07E	40	IN	92	43E	629294	24803	169	41	53	31	ND	ND	ND	2.762	
92	7	56	56.814	2275	39	24.69N	92	53.22E	39	52N	92	45E	629565	24803	169	43	53	35	ND	ND	ND	2.762	
93	7	56	59.095	2280	39	15.53N	92	55.36E	39	43N	92	47E	629841	24802	169	45	53	38	ND	ND	ND	2.756	
94	7	57	1.369	2275	39	6.38N	92	57.48E	39	33N	92	50E	630119	24801	169	47	53	42	ND	ND	ND	2.762	
95	7	57	3.645	2275	38	57.23N	92	59.59E	39	24N	92	52E	630400	24801	169	49	53	45	ND	ND	ND	2.762	
96	7	57	5.926	2281	38	48.06N	93	1.69E	39	15N	92	54E	630685	24800	169	51	53	48	ND	ND	ND	2.755	
97	7	57	8.209	2284	38	38.88N	93	3.79E	39	6N	92	56E	630974	24799	169	53	53	52	ND	ND	ND	2.751	

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 04818-65

PASS 1020 AFT 12AUG64

FRAME EPHMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65

PAGE 158

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	DEG MIN	DEG MIN	DEG MIN	RATE
1	9 22	9.230	60	49.18N	61	26.03E	619736	24823	168	51	41	27	ND	2.016
2	9 22	12.348	60	37.17N	61	34.50E	619570	24823	161	0	41	35	ND	2.016
3	9 22	14.896	60	27.35N	61	41.34E	619437	24824	161	7	41	42	ND	2.465
4	9 22	17.271	60	18.19N	61	47.65E	619317	24824	161	14	41	49	ND	2.647
5	9 22	19.596	60	9.22N	61	53.76E	619202	24824	161	20	41	55	ND	2.702
6	9 22	21.906	60	0.30N	61	59.78E	618983	24825	161	26	42	2	ND	2.719
7	9 22	24.181	59	51.51N	62	5.64E	618983	24825	161	32	42	8	ND	2.763
8	9 22	26.455	59	42.72N	62	11.44E	618878	24825	161	38	42	14	ND	2.762
9	9 22	28.726	59	33.93N	62	17.19E	618776	24825	161	44	42	21	ND	2.768
10	9 22	30.995	59	25.15N	62	22.87E	618677	24826	161	50	42	27	ND	2.768
11	9 22	33.261	59	16.37N	62	28.49E	618580	24826	161	56	42	33	ND	2.774
12	9 22	35.525	59	7.59N	62	34.06E	618487	24826	162	2	42	39	ND	2.774
13	9 22	37.790	58	58.81N	62	39.57E	618395	24826	162	8	42	46	ND	2.774
14	9 22	40.045	58	50.06N	62	45.01E	618307	24827	162	13	42	52	ND	2.786
15	9 22	42.311	58	41.27N	62	50.42E	618221	24827	162	19	42	58	ND	2.774
16	9 22	44.570	58	32.49N	62	55.77E	618138	24827	162	24	43	4	ND	2.780
17	9 22	46.830	58	23.70N	63	1.07E	618057	24827	162	30	43	10	ND	2.786
18	9 22	49.085	58	14.94N	63	6.32E	617979	24827	162	35	43	16	ND	2.786
19	9 22	51.346	58	6.14N	63	11.52E	617904	24828	162	41	43	22	ND	2.780
20	9 22	53.601	57	57.36N	63	16.67E	617831	24828	162	46	43	28	ND	2.786
21	9 22	55.860	57	48.56N	63	21.78E	617760	24828	162	51	43	34	ND	2.780
22	9 22	58.120	57	39.76N	63	26.85E	617693	24828	162	56	43	40	ND	2.780
23	9 23	0.381	57	30.94N	63	31.87E	617628	24828	163	2	43	47	ND	2.780
24	9 23	2.641	57	22.13N	63	36.85E	617565	24828	163	7	43	53	ND	2.774
25	9 23	4.905	57	13.29N	63	41.79E	617505	24829	163	12	43	59	ND	2.786
26	9 23	7.160	57	4.49N	63	46.67E	617448	24829	163	17	44	5	ND	2.786
27	9 23	9.420	56	55.66N	63	51.51E	617394	24829	163	22	44	11	ND	2.780
28	9 23	11.682	56	46.82N	63	56.32E	617342	24829	163	27	44	17	ND	2.779
29	9 23	13.950	56	37.95N	64	1.10E	617293	24829	163	32	44	23	ND	2.769
30	9 23	16.206	56	29.13N	64	5.81E	617246	24829	163	37	44	28	ND	2.785
31	9 23	18.466	56	20.29N	64	10.49E	617202	24829	163	42	44	34	ND	2.781
32	9 23	20.730	56	11.42N	64	15.14E	617161	24830	163	46	44	40	ND	2.774
33	9 23	22.995	56	2.55N	64	19.75E	617122	24830	163	51	44	46	ND	2.774
34	9 23	25.261	55	53.68N	64	24.32E	617086	24830	163	56	44	52	ND	2.774
35	9 23	27.521	55	44.82N	64	28.84E	617053	24830	164	1	44	58	ND	2.780
36	9 23	29.785	55	35.94N	64	33.35E	617022	24830	164	5	44	4	ND	2.774
37	9 23	32.052	55	27.04N	64	37.79E	616994	24830	164	10	44	10	ND	2.773
38	9 23	34.320	55	18.14N	64	42.21E	616969	24830	164	14	44	15	ND	2.769
39	9 23	36.581	55	9.27N	64	46.54E	616946	24830	164	19	44	21	ND	2.779
40	9 23	38.851	55	0.35N	64	50.94E	616926	24830	164	23	44	27	ND	2.769
41	9 23	41.120	54	51.03N	64	55.25E	616909	24830	164	28	44	33	ND	2.768
42	9 23	43.387	54	42.52N	64	59.53E	616894	24830	164	32	44	39	ND	2.773
43	9 23	45.660	54	33.58N	65	3.78E	616883	24830	164	37	44	45	ND	2.763
44	9 23	47.931	54	24.65N	65	7.99E	616874	24830	164	41	44	51	ND	2.768
45	9 23	50.201	54	15.72N	65	12.17E	616868	24830	164	45	44	56	ND	2.767

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 102D AFT 12AUG64

FRAME EPHEMERIS MISSION 1089-2

ID 27

LIST DATE 07MAY65 PAGE 159

FRM	Z TIME		DTIM	CAMERA NADIR		FORMAT CENTER		ALTITUDE FEET	VELOC F/S	AZIMUTH SUN/		PITCH	ROLL		YAW	SCAN RATE					
	HR	MI		SEC	DEG	MIN	DEG			MIN	DEG		MI	DEG			MI	DEG	MIN	DEG	MIN
46	9	23	52.476	2274	54	6.76N	65	16.33E	54	33N	65	3E	616863	24830	164	50	46	2	ND	ND	2.763
47	9	23	54.745	2270	53	57.83N	65	20.43E	54	24N	65	7E	616863	24830	164	54	46	7	ND	ND	2.768
48	9	23	57.016	2270	53	48.88N	65	24.50E	54	15N	65	11E	616865	24830	164	58	46	13	ND	ND	2.768

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 183A AFT 12AUG64

FRAME EPHEMERIS MISSION 1889-2

ID 27

LIST DATE 87MAY65 PAGE 168

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	DEG	MIN	DEG	MIN	FEET	F/S	DEG					MI	DEG	MI	DEG
1	18	33	26.873	0	38	17.81N	110	16.69W	37	37N	110	28W	930258	24119	18	9	58	-21	53	ND	ND	ND	ND	ND	ND	1.384
2	18	33	31.412	4539	38	34.77N	110	12.71W	37	55N	110	24W	928358	24123	18	1	1	-21	38	ND	ND	ND	ND	ND	ND	1.384
3	18	33	35.337	3925	38	50.13N	110	9.23W	38	18N	110	21W	926723	24127	18	5	5	-21	25	ND	ND	ND	ND	ND	ND	1.601
4	18	33	39.122	3785	39	4.94N	110	5.85W	38	25N	110	18W	925149	24130	18	8	8	-21	13	ND	ND	ND	ND	ND	ND	1.660
5	18	33	42.862	3740	39	19.58N	110	2.48W	38	48N	110	14W	923596	24134	18	12	12	-21	1	ND	ND	ND	ND	ND	ND	1.680
6	18	33	46.567	3705	39	34.07N	109	59.11W	38	54N	110	11W	922859	24137	18	15	15	-20	49	ND	ND	ND	ND	ND	ND	1.696
7	18	33	50.263	3695	39	48.53N	109	55.71W	39	9N	110	8W	928528	24140	18	18	18	-20	37	ND	ND	ND	ND	ND	ND	1.700
8	18	33	53.938	3675	40	2.90N	109	52.31W	39	23N	110	4W	919009	24144	18	22	22	-20	25	ND	ND	ND	ND	ND	ND	1.710
9	18	33	57.603	3665	40	17.24N	109	48.88W	39	38N	110	1W	917496	24147	18	25	25	-20	13	ND	ND	ND	ND	ND	ND	1.714
10	18	34	1.252	3650	40	31.51N	109	45.44W	39	52N	109	58W	915991	24150	18	29	29	-20	1	ND	ND	ND	ND	ND	ND	1.721
11	18	34	4.888	3635	40	45.73N	109	41.98W	40	6N	109	54W	914494	24154	18	32	32	-19	49	ND	ND	ND	ND	ND	ND	1.729
12	18	34	8.518	3630	40	59.92N	109	38.49W	40	21N	109	51W	913001	24157	18	35	35	-19	37	ND	ND	ND	ND	ND	ND	1.731
13	18	34	12.143	3625	41	14.10N	109	34.98W	40	35N	109	47W	911513	24160	18	39	39	-19	25	ND	ND	ND	ND	ND	ND	1.733
14	18	34	15.752	3610	41	28.21N	109	31.45W	40	49N	109	44W	910033	24164	18	43	43	-19	13	ND	ND	ND	ND	ND	ND	1.740
15	18	34	19.353	3600	41	42.28N	109	27.89W	41	3N	109	40W	908559	24167	18	46	46	-19	1	ND	ND	ND	ND	ND	ND	1.745

HANDLE VIA
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TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 1120 AFT 13AUG64

FRAME EPHMERIS MISSION 1809-2

ID 27

LIST DATE 07MAY65 PAGE 161

FRM	Z TIME	HR MI	SEC	DTIM	MILS	CAMERA NADR			FORMAT CENTER			ALTITUDE	VELOC	F/S	DEG MI	DEG MI	DEG MI	DEG MI	PITCH	ROLL	YAW	SCAN	
						DEG MIN	DEG MIN	LONG	DEG MIN	DEG MIN	LONG												FEET
1	0	47	9.175	0	4094	14	52.815	150	26.59W	14	125	150	34W	918962	24144	173	7	41	22	ND	ND	ND	1.535
2	0	47	13.269	0	3715	15	8.235	150	24.57W	14	285	150	32W	921881	24139	173	6	41	11	ND	ND	ND	1.535
3	0	47	16.983	0	3615	15	22.945	150	22.74W	14	435	150	30W	923888	24135	173	5	41	0	ND	ND	ND	1.691
4	0	47	20.599	0	3581	15	37.255	150	20.94W	14	575	150	29W	924886	24131	173	4	40	50	ND	ND	ND	1.738
5	0	47	24.180	0	3579	15	51.435	150	19.16W	15	115	150	27W	926748	24127	173	3	40	40	ND	ND	ND	1.755
6	0	47	27.759	0	3581	16	5.605	150	17.37W	15	255	150	25W	928613	24122	173	2	40	30	ND	ND	ND	1.756
7	0	47	31.340	0	3581	16	19.775	150	15.58W	15	395	150	23W	930482	24118	173	1	40	19	ND	ND	ND	1.755
8	0	47	34.898	0	3559	16	33.845	150	13.79W	15	535	150	22W	932342	24114	173	0	40	9	ND	ND	ND	1.765
9	0	47	38.484	0	3586	16	48.825	150	11.98W	16	85	150	20W	934219	24110	172	59	39	59	ND	ND	ND	1.752
10	0	47	42.054	0	3569	17	2.145	150	10.17W	16	225	150	18W	936098	24106	172	58	39	48	ND	ND	ND	1.760
11	0	47	45.649	0	3596	17	16.355	150	8.35W	16	365	150	16W	937977	24101	172	57	39	38	ND	ND	ND	1.747
12	0	47	49.235	0	3586	17	30.525	150	6.52W	16	505	150	14W	939862	24097	172	56	39	28	ND	ND	ND	1.752
13	0	47	52.813	0	3578	17	44.665	150	4.69W	17	45	150	13W	941745	24093	172	55	39	17	ND	ND	ND	1.756
14	0	47	56.413	0	3600	17	58.885	150	2.84W	17	185	150	11W	943643	24089	172	54	39	7	ND	ND	ND	1.745
15	0	48	0.019	0	3605	18	13.125	150	0.98W	17	325	150	9W	945545	24084	172	53	38	56	ND	ND	ND	1.743
16	0	48	3.634	0	3615	18	27.485	149	5.01W	17	465	150	7W	947456	24080	172	52	38	46	ND	ND	ND	1.738
17	0	48	7.248	0	3615	18	41.665	149	5.723W	18	85	150	5W	949368	24076	172	50	38	35	ND	ND	ND	1.738
18	0	48	10.879	0	3630	18	55.995	149	5.534W	18	155	150	3W	951291	24072	172	49	38	25	ND	ND	ND	1.731
19	0	48	14.509	0	3630	19	0.315	149	5.534W	18	295	150	2W	953217	24067	172	48	38	14	ND	ND	ND	1.731
20	0	48	18.153	0	3645	19	24.695	149	5.153W	18	435	150	0W	955152	24063	172	47	38	3	ND	ND	ND	1.724
21	0	48	21.799	0	3645	19	39.075	149	4.960W	18	585	149	58W	957091	24059	172	46	37	53	ND	ND	ND	1.724
22	0	48	25.459	0	3660	19	53.505	149	4.766W	19	125	149	56W	959039	24054	172	44	37	42	ND	ND	ND	1.717
23	0	48	29.113	0	3655	20	7.905	149	4.572W	19	265	149	54W	960987	24050	172	43	37	31	ND	ND	ND	1.719
24	0	48	32.784	0	3671	20	22.365	149	4.376W	19	415	149	52W	962945	24046	172	42	37	20	ND	ND	ND	1.712
25	0	48	36.464	0	3679	20	36.865	149	4.178W	19	555	149	50W	964911	24041	172	41	37	9	ND	ND	ND	1.708
26	0	48	40.153	0	3690	20	51.395	149	3.980W	20	95	149	48W	966884	24037	172	39	36	58	ND	ND	ND	1.703

TDP SPORRY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 115D AFT 15AUG64

FRAME EPHEMERIS MISSION 1809-2

ID 27 LIST DATE 07MAY65 PAGE 162

FRM	Z TIME	DTIM	CAMERA	NADIR	FORMAT	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI	SEC	MILS	DEG MIN	DEG MIN	MIN DEG	FEET	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
1	5	1 38.458	54 32.32N	128 35.85E	54 58N 128	22E	618638	24825	164 37	46 5	ND	ND	2.189
2	5	1 41.328	54 21.03N	128 41.16E	54 47N 128	27E	618694	24825	164 43	46 13	ND	ND	2.189
3	5	1 43.823	54 11.21N	128 45.73E	54 37N 128	32E	618746	24824	164 48	46 19	ND	ND	2.518
4	5	1 46.198	54 1.86N	128 50.05E	54 28N 128	36E	618799	24824	164 52	46 26	ND	ND	2.646
5	5	1 48.519	53 52.75N	128 54.23E	54 19N 128	41E	618853	24824	164 56	46 32	ND	ND	2.708
6	5	1 50.813	53 43.69N	128 58.33E	54 10N 128	45E	618918	24824	165 1	46 38	ND	ND	2.738
7	5	1 53.104	53 34.66N	129 2.38E	54 1N 128	49E	618969	24824	165 5	46 44	ND	ND	2.744
8	5	1 55.379	53 25.69N	129 6.38E	53 52N 128	53E	619031	24824	165 9	46 50	ND	ND	2.762
9	5	1 57.653	53 16.72N	129 10.38E	53 43N 128	57E	619095	24824	165 13	46 56	ND	ND	2.762
10	5	1 59.924	53 7.77N	129 14.28E	53 34N 129	1E	619162	24824	165 17	47 2	ND	ND	2.768
11	5	2 1.188	52 58.83N	129 18.16E	53 25N 129	5E	619232	24823	165 21	47 8	ND	ND	2.774
12	5	2 4.453	52 49.89N	129 22.02E	53 16N 129	9E	619304	24823	165 25	47 14	ND	ND	2.774
13	5	2 6.719	52 40.94N	129 25.85E	53 7N 129	13E	619379	24823	165 29	47 20	ND	ND	2.774
14	5	2 8.979	52 32.82N	129 29.63E	52 58N 129	17E	619456	24823	165 33	47 26	ND	ND	2.780
15	5	2 11.243	52 23.87N	129 33.40E	52 49N 129	21E	619536	24823	165 37	47 31	ND	ND	2.774
16	5	2 13.509	52 14.12N	129 37.14E	52 40N 129	25E	619619	24823	165 41	47 37	ND	ND	2.774
17	5	2 15.769	52 5.18N	129 40.84E	52 31N 129	28E	619705	24822	165 44	47 43	ND	ND	2.780
18	5	2 18.028	51 56.25N	129 44.51E	52 23N 129	32E	619793	24822	165 48	47 49	ND	ND	2.780
19	5	2 20.289	51 47.30N	129 48.16E	52 14N 129	36E	619884	24822	165 52	47 55	ND	ND	2.779
20	5	2 22.554	51 38.34N	129 51.78E	52 5N 129	40E	619978	24822	165 56	48 0	ND	ND	2.775
21	5	2 24.809	51 29.42N	129 55.36E	51 56N 129	43E	620074	24822	165 59	48 6	ND	ND	2.786
22	5	2 27.068	51 20.47N	129 58.92E	51 47N 129	47E	620174	24821	166 3	48 12	ND	ND	2.780
23	5	2 29.328	51 11.52N	130 2.46E	51 38N 129	50E	620275	24821	166 7	48 18	ND	ND	2.780
24	5	2 31.589	51 2.57N	130 5.97E	51 29N 129	54E	620368	24821	166 10	48 23	ND	ND	2.780
25	5	2 33.849	50 53.61N	130 9.44E	51 20N 129	58E	620457	24821	166 14	48 29	ND	ND	2.780
26	5	2 36.108	50 44.65N	130 12.91E	51 11N 130	1E	620597	24821	166 18	48 35	ND	ND	2.780
27	5	2 38.368	50 35.69N	130 16.34E	51 2N 130	5E	620718	24820	166 21	48 40	ND	ND	2.780
28	5	2 40.634	50 26.71N	130 19.75E	50 53N 130	8E	620866	24820	166 25	48 46	ND	ND	2.774
29	5	2 42.894	50 17.75N	130 23.13E	50 44N 130	12E	620944	24820	166 28	48 52	ND	ND	2.780
30	5	2 45.153	50 8.78N	130 26.49E	50 35N 130	15E	621064	24820	166 32	48 57	ND	ND	2.780
31	5	2 47.413	49 59.81N	130 29.82E	50 26N 130	18E	621188	24819	166 35	49 3	ND	ND	2.780
32	5	2 49.679	49 50.82N	130 33.14E	50 17N 130	22E	621315	24819	166 38	49 8	ND	ND	2.774
33	5	2 51.938	49 41.84N	130 36.42E	50 8N 130	25E	621444	24819	166 42	49 14	ND	ND	2.780
34	5	2 54.203	49 32.85N	130 39.69E	49 59N 130	28E	621576	24818	166 45	49 19	ND	ND	2.774
35	5	2 56.464	49 23.87N	130 42.93E	49 50N 130	32E	621711	24818	166 48	49 25	ND	ND	2.780
36	5	2 58.729	49 14.87N	130 46.15E	49 41N 130	35E	621849	24818	166 52	49 30	ND	ND	2.774
37	5	3 0.988	49 5.89N	130 49.34E	49 32N 130	38E	621989	24817	166 55	49 36	ND	ND	2.780
38	5	3 3.248	48 56.90N	130 52.50E	49 23N 130	42E	622132	24817	166 58	49 41	ND	ND	2.780
39	5	3 5.514	48 47.89N	130 55.66E	49 14N 130	45E	622278	24817	167 1	49 47	ND	ND	2.774
40	5	3 7.778	48 38.89N	130 58.79E	49 5N 130	48E	622427	24817	167 5	49 52	ND	ND	2.774
41	5	3 10.038	48 29.98N	131 1.89E	48 56N 130	51E	622578	24816	167 8	49 57	ND	ND	2.780
42	5	3 12.304	48 20.88N	131 4.98E	48 47N 130	54E	622732	24816	167 11	50 3	ND	ND	2.774
43	5	3 14.563	48 11.89N	131 8.04E	48 38N 130	57E	622889	24815	167 14	50 8	ND	ND	2.780
44	5	3 16.828	48 2.87N	131 11.08E	48 29N 131	0E	623049	24815	167 17	50 14	ND	ND	2.774
45	5	3 19.094	47 53.85N	131 14.11E	48 20N 131	4E	623212	24815	167 20	50 19	ND	ND	2.774

Approved For Release 2001/08/21 : CIA-RDP78T05439A000500150003-1

TOP SECRET

HANDLE VIA

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 1150 AFT 13AUG64

FRAME EPHMERIS MISSION 1809-2

ID 27

LIST DATE 07MAY65 PAGE 163

FRM	2 TIME	DTIM	CAMERA	NADR	FORMAT	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN					
HR	MI	SEC	MIN	DEG	MIN	DEG	F/S	DEG	MI	DEG	MIN	DEG	RATE					
46	5	3	21.358	47	44.83N	131	17.11E	48	11N	131	10E	623378	24814	167	23	50	24	2.774
47	5	3	23.623	47	35.81N	131	20.09E	48	2N	131	10E	623545	24814	167	26	50	29	2.774
48	5	3	25.889	47	26.79N	131	23.05E	47	53N	131	13E	623716	24814	167	29	50	35	2.774
49	5	3	28.158	47	17.74N	131	26.00E	47	44N	131	16E	623891	24813	167	32	50	40	2.768
50	5	3	30.424	47	8.71N	131	28.92E	47	35N	131	19E	624068	24813	167	35	50	45	2.774
51	5	3	32.693	46	59.66N	131	31.83E	47	26N	131	22E	624248	24812	167	38	50	50	2.768
52	5	3	34.964	46	50.61N	131	34.72E	47	17N	131	25E	624438	24812	167	41	50	55	2.768
53	5	3	37.229	46	41.58N	131	37.58E	47	8N	131	27E	624615	24812	167	44	51	0	2.774
54	5	3	39.498	46	32.52N	131	40.43E	46	59N	131	30E	624803	24811	167	47	51	6	2.768
55	5	3	41.765	46	23.48N	131	43.26E	46	50N	131	33E	624995	24811	167	50	51	11	2.773
56	5	3	44.034	46	14.42N	131	46.07E	46	41N	131	36E	625188	24810	167	53	51	16	2.768
57	5	3	46.313	46	5.33N	131	48.88E	46	32N	131	39E	625386	24810	167	56	51	21	2.759
58	5	3	48.583	45	56.27N	131	51.65E	46	23N	131	42E	625586	24809	167	59	51	26	2.768
59	5	3	50.854	45	47.20N	131	54.41E	46	14N	131	45E	625788	24809	168	1	51	31	2.768
60	5	3	53.134	45	38.10N	131	57.16E	46	5N	131	47E	625994	24809	168	4	51	36	2.756
61	5	3	55.403	45	29.03N	131	59.88E	45	56N	131	50E	626202	24808	168	7	51	41	2.768
62	5	3	57.679	45	19.94N	132	2.59E	45	47N	131	53E	626414	24808	168	10	51	46	2.762
63	5	3	59.953	45	10.85N	132	5.28E	45	38N	131	56E	626628	24807	168	12	51	51	2.762
64	5	4	2.233	45	1.74N	132	7.97E	45	29N	131	58E	626846	24807	168	15	51	56	2.756
65	5	4	4.504	44	52.66N	132	10.62E	45	20N	132	1E	627065	24806	168	18	52	1	2.768
66	5	4	6.783	44	43.55N	132	13.26E	45	10N	132	4E	627289	24806	168	20	52	6	2.756
67	5	4	9.059	44	34.46N	132	15.89E	45	1N	132	6E	627514	24805	168	23	52	10	2.762
68	5	4	11.344	44	25.32N	132	18.51E	44	52N	132	9E	627744	24805	168	26	52	15	2.750
69	5	4	13.623	44	16.20N	132	21.10E	44	43N	132	12E	627976	24804	168	28	52	20	2.756
70	5	4	15.903	44	7.08N	132	23.69E	44	34N	132	14E	628210	24804	168	31	52	25	2.756
71	5	4	18.184	43	57.96N	132	26.25E	44	25N	132	17E	628448	24803	168	34	52	29	2.756
72	5	4	20.474	43	48.79N	132	28.81E	44	16N	132	20E	628694	24802	168	36	52	34	2.744
73	5	4	22.754	43	39.67N	132	31.34E	44	7N	132	22E	628934	24802	168	39	52	39	2.756
74	5	4	25.039	43	30.52N	132	33.86E	43	57N	132	25E	629180	24801	168	41	52	44	2.749
75	5	4	27.323	43	21.38N	132	36.37E	43	48N	132	27E	629430	24801	168	44	52	48	2.751
76	5	4	29.613	43	12.21N	132	38.87E	43	39N	132	30E	629684	24800	168	46	52	53	2.744
77	5	4	31.898	43	3.06N	132	41.34E	43	30N	132	32E	629939	24800	168	49	52	58	2.750
78	5	4	34.189	42	53.88N	132	43.81E	43	21N	132	35E	630197	24799	168	51	53	2	2.743
79	5	4	36.483	42	44.69N	132	46.26E	43	12N	132	37E	630460	24798	168	54	53	7	2.739
80	5	4	38.778	42	35.50N	132	48.70E	43	3N	132	40E	630724	24798	168	56	53	11	2.738
81	5	4	41.068	42	26.32N	132	51.13E	42	53N	132	42E	630994	24797	168	58	53	16	2.744
82	5	4	43.363	42	17.13N	132	53.54E	42	44N	132	45E	631265	24797	169	1	53	20	2.738
83	5	4	45.658	42	7.93N	132	55.93E	42	35N	132	47E	631539	24796	169	3	53	25	2.738
84	5	4	47.953	41	58.73N	132	58.32E	42	26N	132	50E	631816	24795	169	6	53	29	2.738
85	5	4	50.248	41	49.53N	133	0.69E	42	17N	132	52E	632095	24795	169	8	53	34	2.738
86	5	4	52.543	41	40.33N	133	3.04E	42	7N	132	54E	632379	24794	169	10	53	38	2.738
87	5	4	54.844	41	31.10N	133	5.39E	41	58N	132	57E	632666	24794	169	13	53	42	2.732
88	5	4	57.144	41	21.88N	133	7.72E	41	49N	132	59E	632955	24793	169	15	53	47	2.732
89	5	4	59.444	41	12.65N	133	10.04E	41	40N	133	2E	633248	24792	169	17	53	51	2.731
90	5	5	1.748	41	3.41N	133	12.35E	41	31N	133	4E	633543	24792	169	20	53	55	2.727

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 115D AFT 13AUG64

FRAME EPHEMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65 PAGE 164

FRM	Z 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
91	5	5	4.054	2305	40	54.16N	133	14.64E	41	21N	133	6E	633843	24791	169	22	54	0	ND	ND	ND	2.726
92	5	5	6.358	2305	40	44.91N	133	16.92E	41	12N	133	9E	634145	24790	169	24	54	4	ND	ND	ND	2.726
93	5	5	8.663	2305	40	35.66N	133	19.19E	41	3N	133	11E	634450	24789	169	26	54	8	ND	ND	ND	2.726
94	5	5	10.964	2300	40	26.43N	133	21.45E	40	54N	133	13E	634757	24789	169	29	54	12	ND	ND	ND	2.732
95	5	5	13.273	2310	40	17.16N	133	23.69E	40	44N	133	15E	635068	24788	169	31	54	16	ND	ND	ND	2.728

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 116D AFT 13AUG64

FRAME EPHMERIS 1009-2

ID 27

LIST DATE 07MAY65 PAGE 165

FRM	2 TIME	DTIM	DEG MIN	DEG LONG	DEG MIN	DEG LONG	ALTITUDE FEET	VELOC F/S	DEG AZIMUTH	SUN/DEG MI	PITCH DEG MIN	ROLL DEG MIN	YAW DEG MIN	SCAN RATE
1	6 31 57.684	0	55 37.24N	105 15.95E	56	3N 105 1E	618544	24825	164	5	45 23	ND	ND	2.037
2	6 32 0.769	3085	55 25.14N	105 22.01E	55	51N 105 7E	618583	24825	164	11	45 31	ND	ND	2.037
3	6 32 3.309	2540	55 15.17N	105 26.95E	55	41N 105 12E	618620	24825	164	16	45 38	ND	ND	2.474
4	6 32 5.698	2390	55 5.79N	105 31.56E	55	32N 105 17E	618656	24824	164	21	45 45	ND	ND	2.629
5	6 32 8.033	2335	54 56.62N	105 36.02E	55	23N 105 22E	618695	24824	164	25	45 51	ND	ND	2.691
6	6 32 10.328	2295	54 47.60N	105 40.37E	55	5N 105 26E	618737	24824	164	30	45 57	ND	ND	2.738
7	6 32 12.613	2285	54 38.62N	105 44.66E	55	4N 105 31E	618780	24824	164	34	46 3	ND	ND	2.750
8	6 32 14.898	2276	54 29.67N	105 48.90E	54	56N 105 35E	618827	24824	164	39	46 10	ND	ND	2.761
9	6 32 17.168	2279	54 20.71N	105 53.11E	54	47N 105 39E	618876	24824	164	43	46 16	ND	ND	2.773
10	6 32 19.435	2266	54 11.79N	105 57.26E	54	38N 105 44E	618928	24824	164	47	46 22	ND	ND	2.775
11	6 32 21.698	2264	54 2.88N	106 1.38E	54	29N 105 48E	618982	24824	164	52	46 28	ND	ND	2.775
12	6 32 23.964	2265	53 53.96N	106 5.46E	54	20N 105 52E	619038	24824	164	56	46 34	ND	ND	2.774
13	6 32 26.229	2265	53 45.04N	106 9.51E	54	11N 105 56E	619098	24824	165	0	46 40	ND	ND	2.774
14	6 32 28.488	2260	53 36.13N	106 13.52E	54	2N 106 0E	619160	24823	165	4	46 46	ND	ND	2.780
15	6 32 30.754	2265	53 27.20N	106 17.51E	53	53N 106 0E	619225	24823	165	8	46 52	ND	ND	2.774
16	6 32 33.009	2255	53 18.31N	106 21.45E	53	44N 106 0E	619293	24823	165	12	46 58	ND	ND	2.786
17	6 32 35.273	2255	53 9.38N	106 25.37E	53	36N 106 12E	619363	24823	165	16	47 4	ND	ND	2.774
18	6 32 37.528	2255	53 0.48N	106 29.25E	53	27N 106 16E	619435	24823	165	20	47 10	ND	ND	2.786
19	6 32 39.788	2260	52 51.56N	106 33.10E	53	18N 106 20E	619511	24823	165	24	47 16	ND	ND	2.780
20	6 32 42.043	2255	52 42.66N	106 36.91E	53	9N 106 24E	619589	24823	165	28	47 22	ND	ND	2.786
21	6 32 44.304	2260	52 33.73N	106 40.71E	53	0N 106 28E	619670	24822	165	32	47 28	ND	ND	2.780
22	6 32 46.560	2256	52 24.82N	106 44.46E	52	51N 106 36E	619753	24822	165	36	47 33	ND	ND	2.785
23	6 32 48.818	2259	52 15.89N	106 48.20E	52	42N 106 39E	619839	24822	165	40	47 39	ND	ND	2.781
24	6 32 51.073	2255	52 6.98N	106 51.90E	52	33N 106 43E	619928	24822	165	44	47 45	ND	ND	2.786
25	6 32 53.333	2260	51 58.04N	106 55.57E	52	24N 106 47E	620020	24822	165	48	47 51	ND	ND	2.780
26	6 32 55.589	2255	51 49.12N	106 59.22E	52	15N 106 51E	620114	24821	165	51	47 57	ND	ND	2.786
27	6 32 57.849	2260	51 40.18N	107 2.84E	52	6N 106 55E	620211	24821	165	55	48 3	ND	ND	2.780
28	6 32 0.104	2255	51 31.25N	107 6.42E	51	58N 106 54E	620310	24821	165	59	48 8	ND	ND	2.786
29	6 32 2.363	2260	51 22.31N	107 9.99E	51	49N 106 58E	620413	24821	166	2	48 14	ND	ND	2.780
30	6 32 4.618	2255	51 13.38N	107 13.52E	51	40N 107 5E	620518	24821	166	6	48 20	ND	ND	2.786
31	6 32 6.873	2255	51 4.45N	107 17.03E	51	31N 107 12E	620626	24820	166	10	48 26	ND	ND	2.780
32	6 32 9.129	2255	50 55.51N	107 20.51E	51	22N 107 9E	620736	24820	166	13	48 31	ND	ND	2.786
33	6 32 11.389	2260	50 46.55N	107 23.97E	51	13N 107 12E	620849	24820	166	17	48 37	ND	ND	2.780
34	6 32 13.644	2255	50 37.61N	107 27.40E	51	4N 107 16E	620965	24820	166	20	48 43	ND	ND	2.786
35	6 32 15.903	2260	50 28.65N	107 30.81E	50	55N 107 19E	621084	24819	166	24	48 48	ND	ND	2.780
36	6 32 18.163	2260	50 19.69N	107 34.20E	50	46N 107 23E	621206	24819	166	27	48 54	ND	ND	2.780
37	6 32 20.424	2260	50 10.72N	107 37.56E	50	37N 107 26E	621330	24819	166	31	48 59	ND	ND	2.780
38	6 32 22.679	2255	50 1.77N	107 40.89E	50	28N 107 29E	621456	24818	166	34	49 5	ND	ND	2.786
39	6 32 24.935	2256	49 52.82N	107 44.20E	50	19N 107 33E	621586	24818	166	38	49 11	ND	ND	2.785
40	6 32 27.193	2259	49 43.85N	107 47.49E	50	10N 107 36E	621718	24818	166	41	49 16	ND	ND	2.781
41	6 32 29.453	2260	49 34.87N	107 50.75E	50	1N 107 40E	621853	24818	166	44	49 22	ND	ND	2.780
42	6 32 31.714	2260	49 25.89N	107 54.00E	49	52N 107 43E	621991	24817	166	48	49 27	ND	ND	2.780
43	6 32 33.974	2260	49 16.91N	107 57.21E	49	43N 107 46E	622132	24817	166	51	49 33	ND	ND	2.780
44	6 32 36.238	2265	49 7.91N	108 0.42E	49	34N 107 49E	622276	24817	166	54	49 38	ND	ND	2.774
45	6 32 38.504	2265	48 58.91N	108 3.60E	49	25N 107 53E	622423	24816	166	57	49 44	ND	ND	2.774

TOP SECRET

HANDLE VIA
Talent Keyhole
Control Only

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 1160 AFT 13AUG64

FRAME EPHMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65

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FRM	Z TIME	DTIM	CAMERA	NADR	FORMAT	ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN
HR MI	SEC	MILS	LAT	DEG MIN	DEG MIN	DEG MIN	F/S	DEG MI	DEG MI	DEG MIN	DEG MIN	DEG MIN	RATE
46	6 33	40.764	2260	48 49.92N	108 6.75E	49 16N 107 56E	622572	24816	167 1	49 49	ND	ND	2.780
47	6 33	43.023	2260	48 40.94N	108 9.88E	49 7N 107 59E	622723	24816	167 4	49 55	ND	ND	2.780
48	6 33	45.288	2265	48 31.93N	108 12.99E	48 58N 108 2E	622878	24815	167 7	50 8	ND	ND	2.774
49	6 33	47.550	2261	48 22.93N	108 16.08E	48 49N 108 5E	623036	24815	167 10	50 5	ND	ND	2.779
50	6 34	50.059	62509	44 13.51N	109 33.66E	44 40N 109 24E	628489	24803	168 29	52 26	ND	ND	0.101
51	6 34	53.188	3130	44 0.99N	109 37.20E	44 28N 109 28E	628818	24802	168 33	52 33	ND	ND	2.007
52	6 34	55.764	2575	43 50.69N	109 40.08E	44 18N 109 31E	629093	24801	168 36	52 38	ND	ND	2.440
53	6 34	58.193	2430	43 40.96N	109 42.78E	44 8N 109 34E	629356	24801	168 38	52 43	ND	ND	2.986
54	6 35	0.559	2365	43 31.50N	109 45.39E	43 58N 109 36E	629615	24800	168 41	52 48	ND	ND	2.657
55	6 35	2.903	2345	43 22.11N	109 47.97E	43 49N 109 39E	629875	24800	168 44	52 53	ND	ND	2.679
56	6 35	5.233	2330	43 12.70N	109 50.51E	43 40N 109 41E	630136	24799	168 46	52 57	ND	ND	2.697
57	6 35	7.554	2320	43 3.49N	109 53.02E	43 31N 109 44E	630399	24798	168 49	53 2	ND	ND	2.708
58	6 35	9.863	2310	42 54.24N	109 55.51E	43 21N 109 47E	630664	24798	168 51	53 7	ND	ND	2.720
59	6 35	12.174	2310	42 44.99N	109 57.98E	43 12N 109 49E	630932	24797	168 54	53 11	ND	ND	2.720
60	6 35	14.483	2310	42 35.73N	110 0.44E	43 3N 109 52E	631203	24797	168 56	53 16	ND	ND	2.720
61	6 35	16.793	2310	42 26.48N	110 2.88E	42 54N 109 54E	631476	24796	168 58	53 21	ND	ND	2.720
62	6 35	19.095	2301	42 17.26N	110 5.30E	42 44N 109 57E	631753	24795	169 1	53 25	ND	ND	2.731
63	6 35	21.403	2309	42 8.00N	110 7.71E	42 35N 109 59E	632032	24795	169 3	53 30	ND	ND	2.721
64	6 35	23.714	2310	41 58.74N	110 10.11E	42 26N 110 1E	632315	24794	169 6	53 34	ND	ND	2.720
65	6 35	26.023	2310	41 49.48N	110 12.49E	42 17N 110 4E	632600	24794	169 8	53 39	ND	ND	2.720
66	6 35	28.328	2305	41 40.24N	110 14.86E	42 7N 110 6E	632888	24793	169 10	53 43	ND	ND	2.726
67	6 35	30.639	2310	41 30.98N	110 17.21E	41 58N 110 9E	633180	24792	169 13	53 48	ND	ND	2.720
68	6 35	32.948	2310	41 21.72N	110 19.55E	41 49N 110 11E	633475	24792	169 15	53 52	ND	ND	2.720
69	6 35	35.259	2310	41 12.45N	110 21.88E	41 40N 110 13E	633772	24791	169 17	53 56	ND	ND	2.720
70	6 35	37.563	2305	41 3.20N	110 24.19E	41 30N 110 16E	634072	24790	169 20	54 1	ND	ND	2.726
71	6 35	39.873	2310	40 53.94N	110 26.49E	41 21N 110 18E	634375	24789	169 22	54 5	ND	ND	2.720
72	6 35	42.184	2310	40 44.67N	110 28.78E	41 12N 110 20E	634682	24789	169 24	54 9	ND	ND	2.720
73	6 35	44.498	2315	40 35.38N	110 31.06E	41 3N 110 23E	634991	24788	169 26	54 14	ND	ND	2.714
74	6 35	46.804	2305	40 26.13N	110 33.31E	40 53N 110 25E	635303	24787	169 29	54 18	ND	ND	2.726
75	6 35	49.118	2315	40 16.84N	110 35.57E	40 44N 110 27E	635620	24787	169 31	54 22	ND	ND	2.714
76	6 35	51.434	2315	40 7.54N	110 37.81E	40 35N 110 30E	635938	24786	169 33	54 26	ND	ND	2.714
77	6 35	53.754	2320	39 58.23N	110 40.04E	40 26N 110 32E	636261	24785	169 35	54 34	ND	ND	2.708
78	6 35	56.069	2316	39 48.93N	110 42.25E	40 16N 110 34E	636587	24784	169 37	54 38	ND	ND	2.713
79	6 35	58.389	2319	39 39.62N	110 44.46E	40 7N 110 36E	636915	24784	169 40	54 38	ND	ND	2.709
80	6 36	0.703	2315	39 30.32N	110 46.64E	39 58N 110 38E	637246	24783	169 42	54 42	ND	ND	2.714
81	6 36	3.028	2325	39 20.98N	110 48.83E	39 48N 110 41E	637582	24782	169 44	54 46	ND	ND	2.702
82	6 36	5.349	2320	39 11.66N	110 51.00E	39 39N 110 43E	637920	24781	169 46	54 50	ND	ND	2.708
83	6 36	7.668	2320	39 2.35N	110 53.15E	39 30N 110 45E	638261	24781	169 48	54 54	ND	ND	2.708
84	6 36	9.988	2330	38 53.02N	110 55.30E	39 21N 110 47E	638604	24780	169 50	54 58	ND	ND	2.708
85	6 36	12.318	2330	38 43.66N	110 57.44E	39 11N 110 49E	638953	24779	169 52	55 2	ND	ND	2.697
86	6 36	14.645	2326	38 34.31N	110 59.57E	39 2N 110 52E	639303	24778	169 54	55 6	ND	ND	2.701
87	6 36	16.968	2323	38 24.97N	111 1.68E	38 53N 110 54E	639657	24777	169 56	55 10	ND	ND	2.705
88	6 38	16.263	19295	30 24.55N	112 36.72E	30 53N 112 30E	661878	24727	171 24	57 40	ND	ND	0.053
89	6 38	19.497	3235	30 11.51N	112 38.99E	30 40N 112 32E	662592	24725	171 26	57 43	ND	ND	1.942
90	6 38	22.183	2685	30 0.67N	112 40.86E	30 29N 112 34E	663189	24724	171 28	57 45	ND	ND	2.340

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 116D AFT 13AUG64

FRAME EPHEMERIS MISSION 1009-2

ID 27 LIST DATE 07MAY65 PAGE 167

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
91	6 38 24.728	2545	29 58.44N	112 42.63E	30 19N 112	36E	665759	24723	171 29	57 47	ND	ND	ND	2.469
92	6 38 27.207	2480	29 48.41N	112 44.34E	30 9N 112	38E	664317	24721	171 31	57 49	ND	ND	ND	2.534
93	6 38 29.673	2465	29 38.46N	112 46.04E	29 59N 112	39E	664876	24720	171 32	57 51	ND	ND	ND	2.549
94	6 38 32.122	2450	29 28.58N	112 47.71E	29 49N 112	41E	665434	24719	171 34	57 52	ND	ND	ND	2.565
95	6 38 34.563	2440	29 18.73N	112 49.38E	29 40N 112	43E	665994	24717	171 35	57 54	ND	ND	ND	2.575
96	6 38 37.002	2440	29 8.89N	112 51.03E	29 30N 112	44E	666557	24716	171 37	57 56	ND	ND	ND	2.575
97	6 38 39.442	2440	28 51.05N	112 52.68E	29 20N 112	46E	667123	24715	171 38	57 58	ND	ND	ND	2.575
98	6 38 41.877	2435	28 41.22N	112 54.32E	29 10N 112	48E	667692	24714	171 39	57 59	ND	ND	ND	2.580
99	6 38 44.313	2435	28 31.40N	112 55.95E	29 0N 112	49E	668263	24712	171 41	58 1	ND	ND	ND	2.580
000	6 38 46.743	2431	28 21.59N	112 57.57E	28 51N 112	51E	668837	24711	171 42	58 2	ND	ND	ND	2.585
001	6 38 49.183	2439	28 11.75N	112 59.19E	28 41N 112	53E	669417	24710	171 44	58 4	ND	ND	ND	2.576
002	6 38 51.617	2435	28 1.92N	113 0.80E	28 31N 112	54E	669998	24708	171 45	58 5	ND	ND	ND	2.580
003	6 38 54.058	2440	27 52.08N	113 2.40E	28 21N 112	56E	670585	24707	171 46	58 6	ND	ND	ND	2.575
004	6 38 56.492	2435	27 42.25N	113 4.00E	28 11N 112	57E	671173	24706	171 48	58 8	ND	ND	ND	2.580
005	6 38 58.938	2445	27 32.38N	113 5.59E	28 1N 112	59E	671767	24704	171 49	58 9	ND	ND	ND	2.570
006	6 39 1.383	2445	27 22.52N	113 7.18E	27 52N 113	1E	672364	24703	171 50	58 10	ND	ND	ND	2.570
007	6 39 3.822	2440	27 12.67N	113 8.76E	27 42N 113	2E	672963	24702	171 51	58 12	ND	ND	ND	2.570
008	6 39 6.268	2445	27 2.80N	113 10.34E	27 32N 113	4E	673567	24700	171 53	58 13	ND	ND	ND	2.570
009	6 39 8.718	2450	26 52.91N	113 11.91E	27 22N 113	5E	674176	24699	171 54	58 14	ND	ND	ND	2.565
010	6 39 11.163	2446	26 43.05N	113 13.47E	27 12N 113	7E	674787	24697	171 55	58 15	ND	ND	ND	2.569
011	6 39 13.617	2454	26 33.14N	113 15.04E	27 2N 113	9E	675403	24696	171 57	58 16	ND	ND	ND	2.560
012	6 39 16.072	2455	26 23.23N	113 16.59E	26 52N 113	10E	676023	24695	171 58	58 17	ND	ND	ND	2.559
013	6 39 18.527	2455	26 13.32N	113 18.14E	26 43N 113	12E	676646	24693	171 59	58 18	ND	ND	ND	2.559
014	6 39 20.982	2455	26 3.41N	113 19.69E	26 33N 113	15E	677282	24692	172 0	58 19	ND	ND	ND	2.559
015	6 39 23.442	2460	25 53.49N	113 21.23E	26 23N 113	15E	677903	24690	172 2	58 19	ND	ND	ND	2.554
016	6 39 25.902	2460	25 43.56N	113 22.76E	26 13N 113	16E	678538	24689	172 3	58 20	ND	ND	ND	2.554
017	6 39 28.372	2470	25 33.59N	113 24.30E	26 3N 113	18E	679178	24687	172 4	58 21	ND	ND	ND	2.544
018	6 39 30.838	2465	25 23.64N	113 25.82E	25 53N 113	19E	679821	24686	172 5	58 22	ND	ND	ND	2.549
019	6 39 33.303	2465	25 13.69N	113 27.34E	25 43N 113	21E	680467	24684	172 6	58 22	ND	ND	ND	2.549
020	6 39 35.764	2461	25 3.75N	113 28.85E	25 33N 113	23E	681115	24683	172 8	58 23	ND	ND	ND	2.553
021	6 39 38.237	2474	24 53.77N	113 30.37E	25 23N 113	24E	681770	24681	172 9	58 23	ND	ND	ND	2.540
022	6 39 40.707	2475	24 43.80N	113 31.87E	25 13N 113	26E	682427	24680	172 10	58 24	ND	ND	ND	2.544
023	6 39 43.183	2475	24 33.81N	113 33.37E	25 3N 113	27E	683088	24678	172 11	58 24	ND	ND	ND	2.539
024	6 39 45.657	2475	24 23.82N	113 34.87E	24 53N 113	29E	683754	24677	172 12	58 25	ND	ND	ND	2.539
025	6 39 48.138	2480	24 13.81N	113 36.37E	24 43N 113	30E	684424	24675	172 13	58 25	ND	ND	ND	2.534
026	6 39 50.617	2480	24 3.80N	113 37.85E	24 33N 113	32E	685097	24674	172 14	58 25	ND	ND	ND	2.534
027	6 39 53.103	2485	23 53.76N	113 39.34E	24 23N 113	33E	685775	24672	172 16	58 25	ND	ND	ND	2.528
028	6 39 55.593	2490	23 43.71N	113 40.82E	24 13N 113	35E	686458	24671	172 17	58 26	ND	ND	ND	2.523
029	6 39 58.082	2490	23 33.66N	113 42.30E	24 3N 113	36E	687144	24669	172 18	58 26	ND	ND	ND	2.523
030	6 40 0.572	2495	23 23.61N	113 43.77E	23 53N 113	38E	687834	24668	172 19	58 26	ND	ND	ND	2.523
031	6 40 3.067	2495	23 13.54N	113 45.24E	23 43N 113	39E	688529	24666	172 20	58 26	ND	ND	ND	2.518
032	6 40 5.563	2496	23 3.47N	113 46.71E	23 33N 113	40E	689227	24664	172 21	58 26	ND	ND	ND	2.517
033	6 40 8.067	2504	22 53.36N	113 48.17E	23 23N 113	42E	689930	24663	172 22	58 26	ND	ND	ND	2.509
034	6 40 10.567	2500	22 43.27N	113 49.63E	23 13N 113	43E	690636	24661	172 23	58 26	ND	ND	ND	2.513
035	6 40 13.072	2505	22 33.16N	113 51.08E	23 3N 113	45E	691347	24660	172 24	58 26	ND	ND	ND	2.508

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84018-65

PASS 1160 AFT 13AUG64

FRAME EPEMERIS MISSION 1009-2

ID 27

LIST DATE 07MAY65

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FRM	Z TIME			DTM MILS	CAMERA NADIR			FORMAT CENTER			ALTITUDE FEET	VELOC F/S	AZIMUTH DEG MI	SUN/ DEG MI	PITCH DEG MIN	ROLL DEG MIN	YAW DEG MIN	SCAN RATE			
	HR	MI	SEC		DEG	MIN	LONG	DEG	MIN	LONG									MIN	DEG	MI
136	6	40	15.582	2510	22	23.02N	113	52.54E	22	53N	113	46E	692063	24658	172	25	58	26	ND	ND	2.503
137	6	40	18.093	2510	22	12.89N	113	53.98E	22	43N	113	48E	692783	24656	172	26	58	25	ND	ND	2.503
138	6	40	20.603	2510	22	2.76N	113	55.43E	22	33N	113	49E	693504	24655	172	27	58	25	ND	ND	2.498
139	6	40	23.117	2515	21	52.61N	113	56.86E	22	23N	113	51E	694232	24653	172	28	58	25	ND	ND	2.498
140	6	40	25.633	2515	21	42.45N	113	58.30E	22	13N	113	52E	694963	24651	172	29	58	24	ND	ND	2.493
141	6	40	28.152	2520	21	32.28N	113	59.73E	22	2N	113	54E	695699	24650	172	30	58	24	ND	ND	2.493
142	6	40	30.673	2520	21	22.11N	114	1.16E	21	52N	113	55E	696438	24648	172	31	58	23	ND	ND	2.493
143	6	40	33.192	2520	21	11.94N	114	2.59E	21	42N	113	56E	697180	24646	172	32	58	23	ND	ND	2.488
144	6	40	35.718	2525	21	1.75N	114	4.00E	21	32N	113	58E	697928	24645	172	33	58	22	ND	ND	2.483
145	6	40	38.247	2530	20	51.54N	114	5.42E	21	22N	113	59E	698681	24643	172	34	58	21	ND	ND	2.483
146	6	40	40.777	2530	20	41.33N	114	6.84E	21	12N	114	1E	699436	24641	172	35	58	21	ND	ND	2.482
147	6	40	43.309	2531	20	31.11N	114	8.25E	21	1N	114	2E	700196	24639	172	36	58	20	ND	ND	2.475
148	6	40	45.848	2539	20	20.86N	114	9.66E	20	51N	114	4E	700961	24638	172	37	58	19	ND	ND	2.475
149	6	40	48.389	2541	20	10.61N	114	11.06E	20	41N	114	5E	701731	24636	172	38	58	18	ND	ND	2.473

TOP SECRET

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 117D AFT 13AUG64

FRAME EPHEMERIS MISSION 1009-2

ID 27 LIST DATE 07MAY65 PAGE 169

FRM	Z TIME	DTIM	CAMERA	NADIR	FORMAT	ALTITUDE	VELOC	AZIMUTH	SUNV	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	RATE				
1	3	1.563	53	46.38N	83	20.73E	54	13N	83	7E	619291	24823	164	59	46	42	2.077
2	3	4.588	53	34.46N	83	26.09E	54	11N	83	13E	619380	24823	165	5	46	50	2.077
3	3	7.117	53	24.48N	83	30.54E	53	51N	83	17E	619457	24822	165	9	46	57	2.483
4	3	9.513	53	15.04N	83	34.71E	53	41N	83	22E	619534	24822	165	14	47	3	2.623
5	3	11.838	53	5.07N	83	38.72E	53	32N	83	26E	619611	24822	165	18	47	9	2.702
6	3	14.138	52	56.79N	83	42.66E	53	23N	83	30E	619690	24822	165	22	47	15	2.732
7	3	16.424	52	47.77N	83	46.55E	53	14N	83	34E	619772	24822	165	26	47	21	2.749
8	3	18.707	52	38.75N	83	50.40E	53	5N	83	38E	619856	24822	165	30	47	27	2.751
9	3	20.982	52	29.76N	83	54.20E	52	56N	83	41E	619942	24822	165	34	47	33	2.762
10	3	23.252	52	20.80N	83	57.97E	52	47N	83	45E	620032	24821	165	38	47	39	2.768
11	3	25.522	52	11.82N	84	1.71E	52	38N	83	49E	620123	24821	165	42	47	45	2.768
12	3	27.792	52	2.85N	84	5.42E	52	29N	83	53E	620218	24821	165	45	47	51	2.768
13	3	30.058	51	53.89N	84	9.09E	52	20N	83	57E	620315	24821	165	49	47	57	2.774
14	3	32.323	51	44.93N	84	12.74E	52	11N	84	0E	620414	24821	165	53	48	3	2.773
15	3	34.588	51	35.97N	84	16.35E	52	2N	84	4E	620517	24820	165	57	48	9	2.775
16	3	36.853	51	27.00N	84	19.96E	51	53N	84	8E	620623	24820	166	0	48	14	2.774
17	3	39.113	51	18.05N	84	23.50E	51	44N	84	11E	620731	24820	166	4	48	20	2.779
18	3	41.377	51	9.09N	84	27.03E	51	35N	84	15E	620844	24820	166	8	48	26	2.775
19	3	43.633	51	0.15N	84	30.53E	51	27N	84	19E	620954	24819	166	11	48	32	2.786
20	3	45.897	50	51.18N	84	34.01E	51	18N	84	22E	621070	24819	166	15	48	37	2.774
21	3	48.162	50	42.20N	84	37.47E	51	9N	84	26E	621189	24819	166	19	48	43	2.774
22	3	50.418	50	33.26N	84	40.80E	51	0N	84	29E	621310	24819	166	22	48	49	2.785
23	3	52.678	50	24.29N	84	44.28E	50	51N	84	33E	621434	24818	166	26	48	54	2.781
24	3	54.938	50	15.33N	84	47.66E	50	42N	84	36E	621561	24818	166	29	49	0	2.780
25	3	57.197	50	6.36N	84	51.01E	50	33N	84	40E	621690	24818	166	32	49	6	2.780
26	3	59.457	49	57.39N	84	54.33E	50	24N	84	43E	621823	24818	166	36	49	11	2.780
27	4	1.718	49	48.42N	84	57.63E	50	15N	84	46E	621958	24817	166	39	49	17	2.780
28	4	3.982	49	39.43N	85	0.92E	50	6N	84	50E	622096	24817	166	43	49	23	2.774
29	4	6.242	49	30.45N	85	4.17E	49	57N	84	53E	622236	24817	166	46	49	28	2.780
30	4	8.503	49	21.47N	85	7.40E	49	48N	84	56E	622379	24816	166	49	49	34	2.779
31	4	10.768	49	12.47N	85	10.62E	49	39N	85	0E	622526	24816	166	53	49	39	2.775
32	4	13.027	49	3.49N	85	13.80E	49	30N	85	3E	622674	24816	166	56	49	45	2.780
33	4	15.292	48	54.49N	85	16.97E	49	21N	85	6E	622826	24815	166	59	49	50	2.774
34	4	17.554	48	45.49N	85	20.11E	49	12N	85	9E	622980	24815	167	2	49	56	2.779
35	4	19.817	48	36.49N	85	23.23E	49	3N	85	12E	623137	24815	167	6	50	1	2.775
36	4	22.077	48	27.50N	85	26.33E	48	54N	85	16E	623298	24814	167	9	50	7	2.780
37	4	24.343	48	18.49N	85	29.41E	48	45N	85	19E	623460	24814	167	12	50	12	2.774
38	4	26.607	48	9.47N	85	32.47E	48	36N	85	22E	623626	24814	167	15	50	17	2.774
39	4	28.872	48	0.46N	85	35.51E	48	27N	85	25E	623794	24813	167	18	50	23	2.774
40	4	31.138	47	51.44N	85	38.53E	48	18N	85	28E	623966	24813	167	21	50	28	2.774
41	4	33.402	47	42.42N	85	41.52E	48	9N	85	31E	624139	24812	167	24	50	33	2.774
42	4	35.667	47	33.40N	85	44.50E	48	0N	85	34E	624316	24812	167	27	50	39	2.774
43	4	37.928	47	24.39N	85	47.45E	48	51N	85	37E	624495	24812	167	30	50	44	2.780
44	4	40.197	47	15.35N	85	50.39E	47	42N	85	40E	624678	24811	167	33	50	49	2.768
45	4	42.464	47	6.31N	85	53.31E	47	33N	85	43E	624863	24811	167	36	50	55	2.773

TOP SECRET
SPECIAL HANDLING REQUIRED
HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 117D AFT 13AUG64

FRAME EPHEMERIS | MISSION 1889-2

ID 27

LIST DATE 07MAY65

PAGE 170

FRM	2 TIME			DTIM	CAMERA		NADR		FORMAT		CENTER		ALTITUDE	VELOC	AZIMUTH	SUN/	PITCH	ROLL	YAW	SCAN		
	HR	MI	SEC		MILS	DEG	MIN	DEG	MIN	DEG	MIN	DEG									MIN	FEET
46	8	4	44.729	2265	46	57.28N	85	56.21E	47	24N	85	46E	625051	24810	167	39	51	0	ND	ND	ND	2.774
47	8	4	46.993	2265	46	48.25N	85	59.08E	47	15N	85	49E	625242	24810	167	42	51	5	ND	ND	ND	2.774
48	8	4	49.268	2274	46	39.18N	86	1.95E	47	6N	85	52E	625436	24809	167	45	51	10	ND	ND	ND	2.763
49	8	4	51.532	2265	46	30.15N	86	4.79E	46	57N	85	55E	625632	24809	167	48	51	15	ND	ND	ND	2.774
50	8	4	53.803	2270	46	21.09N	86	7.62E	46	48N	85	58E	625832	24809	167	51	51	21	ND	ND	ND	2.768
51	8	4	56.072	2270	46	12.03N	86	10.42E	46	39N	86	0E	626034	24808	167	54	51	26	ND	ND	ND	2.767
52	8	4	58.344	2271	46	2.97N	86	13.22E	46	30N	86	3E	626239	24808	167	57	51	31	ND	ND	ND	2.767
53	8	5	0.613	2270	45	53.91N	86	15.99E	46	21N	86	6E	626448	24807	167	59	51	36	ND	ND	ND	2.768
54	8	5	2.883	2269	45	44.85N	86	18.74E	46	12N	86	9E	626658	24807	168	2	51	41	ND	ND	ND	2.769
55	8	5	5.157	2275	45	35.77N	86	21.48E	46	3N	86	12E	626872	24806	168	5	51	46	ND	ND	ND	2.762

TOP SECRET

HANDLE VIA
Talent Keyhole
Control Only

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 118D AFT 13AU664

FRAME EPHMERIS

MISSION 1889-2

ID 27

LIST DATE 07MAY65

PAGE 172

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	MI	DEG
46	9	35	52.127	2280	44	58.32N	63	46.75E	45	17N	63	37E	628424	24883	168	19	52	15	ND	ND	ND	2.756
47	9	35	54.488	2281	44	41.28N	63	49.48E	45	8N	63	48E	628659	24882	168	21	52	28	ND	ND	ND	2.755
48	9	35	56.692	2284	44	32.87N	63	52.83E	44	59N	63	43E	628898	24882	168	24	52	25	ND	ND	ND	2.751
49	9	35	58.978	2285	44	22.93N	63	54.64E	44	58N	63	45E	629148	24881	168	26	52	38	ND	ND	ND	2.750
50	9	36	1.263	2285	44	13.88N	63	57.24E	44	41N	63	48E	629385	24888	168	29	52	35	ND	ND	ND	2.744
51	9	36	3.553	2298	44	4.64N	63	59.83E	44	32N	63	51E	629633	24888	168	32	52	48	ND	ND	ND	2.758
52	9	36	5.837	2285	43	55.58N	64	2.39E	44	22N	63	53E	629883	24799	168	34	52	45	ND	ND	ND	2.758
53	9	36	8.127	2298	43	46.33N	64	4.95E	44	13N	63	56E	638137	24799	168	37	52	58	ND	ND	ND	2.744
54	9	36	10.417	2298	43	37.17N	64	7.48E	44	4N	63	58E	638393	24798	168	39	52	55	ND	ND	ND	2.758
55	9	36	12.712	2295	43	27.99N	64	10.81E	43	55N	64	1E	638653	24798	168	42	52	59	ND	ND	ND	2.744
56	9	36	15.002	2298	43	18.82N	64	12.52E	43	46N	64	3E	638915	24797	168	44	53	4	ND	ND	ND	2.738
57	9	36	17.298	2295	43	9.65N	64	15.82E	43	37N	64	6E	631181	24796	168	47	53	9	ND	ND	ND	2.744
58	9	36	19.587	2298	43	8.46N	64	17.49E	43	28N	64	9E	631449	24796	168	49	53	14	ND	ND	ND	2.744

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY

TOP SECRET
SPECIAL HANDLING REQUIRED

TCS 84818-65

PASS 118D AFT 13AU664

FRAME EPHMERIS

MISSION 1889-2

ID 27

LIST DATE 07MAY65

PAGE 171

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	MI	DEG
1	9	34	8.327	8	51	43.38N	61	25.24E	52	18N	61	13E	628696	24828	165	54	48	7	ND	ND	ND	2.827
2	9	34	11.428	3188	51	31.83N	61	38.17E	51	57N	61	18E	628843	24828	165	59	48	15	ND	ND	ND	2.827
3	9	34	13.978	2558	51	28.93N	61	30.28E	51	47N	61	22E	628968	24819	166	3	48	22	ND	ND	ND	2.464
4	9	34	16.383	2485	51	11.41N	61	37.96E	51	38N	61	26E	629188	24819	166	7	48	28	ND	ND	ND	2.613
5	9	34	18.728	2345	51	2.12N	61	41.68E	51	28N	61	30E	629289	24819	166	11	48	34	ND	ND	ND	2.714
6	9	34	21.842	2315	58	52.95N	61	48.67E	51	18N	61	37E	629455	24818	166	18	48	45	ND	ND	ND	2.738
7	9	34	23.337	2295	58	43.85N	61	48.67E	51	18N	61	37E	629582	24818	166	21	48	51	ND	ND	ND	2.744
8	9	34	25.627	2298	58	34.77N	61	52.14E	51	1N	61	40E	629718	24818	166	25	48	57	ND	ND	ND	2.758
9	9	34	27.912	2285	58	25.71N	61	55.58E	58	52N	61	44E	629842	24817	166	28	49	3	ND	ND	ND	2.756
10	9	34	30.192	2288	58	16.67N	61	58.99E	58	43N	61	47E	629976	24817	166	32	49	8	ND	ND	ND	2.762
11	9	34	32.473	2288	58	7.62N	62	2.38E	58	34N	61	51E	629176	24817	166	32	49	8	ND	ND	ND	2.756
12	9	34	34.747	2275	49	58.68N	62	5.73E	58	25N	61	54E	622113	24817	166	35	49	14	ND	ND	ND	2.762
13	9	34	37.822	2275	49	49.56N	62	9.85E	58	16N	61	58E	622252	24816	166	39	49	28	ND	ND	ND	2.762
14	9	34	39.298	2275	49	48.53N	62	12.35E	58	7N	62	1E	622395	24816	166	42	49	25	ND	ND	ND	2.762
15	9	34	41.572	2275	49	31.58N	62	15.63E	49	58N	62	4E	622539	24816	166	46	49	31	ND	ND	ND	2.762
16	9	34	43.848	2275	49	22.46N	62	18.89E	49	49N	62	8E	622687	24815	166	49	49	37	ND	ND	ND	2.762
17	9	34	46.122	2275	49	13.42N	62	22.12E	49	40N	62	11E	622838	24815	166	52	49	42	ND	ND	ND	2.762
18	9	34	48.394	2271	49	8.39N	62	25.32E	49	31N	62	74E	622991	24815	166	56	49	48	ND	ND	ND	2.762
19	9	34	50.667	2274	48	55.36N	62	28.58E	49	22N	62	18E	623147	24814	166	59	49	53	ND	ND	ND	2.767
20	9	34	52.938	2278	48	46.33N	62	31.66E	49	13N	62	21E	623385	24814	167	2	49	59	ND	ND	ND	2.767
21	9	34	55.212	2275	48	37.28N	62	34.88E	49	4N	62	24E	623467	24814	167	5	50	4	ND	ND	ND	2.762
22	9	34	57.482	2278	48	28.25N	62	37.91E	48	55N	62	27E	623631	24813	167	8	50	18	ND	ND	ND	2.768
23	9	34	59.752	2278	48	19.22N	62	41.88E	48	46N	62	30E	623796	24813	167	12	50	15	ND	ND	ND	2.768
24	9	35	2.822	2278	48	18.18N	62	44.87E	48	37N	62	33E	623967	24813	167	15	50	21	ND	ND	ND	2.768
25	9	35	4.298	2275	48	1.13N	62	47.12E	48	28N	62	37E	624148	24812	167	18	50	26	ND	ND	ND	2.762
26	9	35	6.572	2275	47	52.87N	62	50.15E	48	19N	62	40E	624316	24812	167	21	50	32	ND	ND	ND	2.762
27	9	35	8.843	2278	47	43.83N	62	53.16E	48	18N	62	43E	624496	24811	167	24	50	37	ND	ND	ND	2.762
28	9	35	11.117	2275	47	33.97N	62	56.15E	48	1N	62	46E	624675	24811	167	27	50	42	ND	ND	ND	2.762
29	9	35	13.393	2275	47	24.98N	62	59.12E	47	52N	62	49E	624859	24811	167	30	50	48	ND	ND	ND	2.762
30	9	35	15.663	2271	47	15.86N	63	2.86E	47	43N	62	52E	625045	24810	167	33	50	53	ND	ND	ND	2.767
31	9	35	17.942	2279	47	6.77N	63	5.88E	47	33N	62	55E	625235	24810	167	36	50	58	ND	ND	ND	2.757
32	9	35	20.212	2278	46	57.73N	63	7.98E	47	24N	62	58E	625427	24809	167	39	51	4	ND	ND	ND	2.768
33	9	35	22.492	2288	46	48.63N	63	10.88E	47	15N	63	1E	625623	24809	167	42	51	9	ND	ND	ND	2.756
34	9	35	24.769	2276	46	39.56N	63	13.67E	47	6N	63	4E	625821	24808	167	45	51	14	ND	ND	ND	2.761
35	9	35	27.048	2279	46	30.46N	63	16.53E	46	57N	63	6E	626023	24808	167	48	51	19	ND	ND	ND	2.751
36	9	35	29.323	2276	46	21.39N	63	19.36E	46	48N	63	9E	626226	24808	167	51	51	25	ND	ND	ND	2.762
37	9	35	31.687	2284	46	12.27N	63	22.19E	46	39N	63	12E	626434	24807	167	54	51	38	ND	ND	ND	2.756
38	9	35	33.883	2275	46	3.19N	63	24.99E	46	30N	63	15E	626643	24807	167	56	51	35	ND	ND	ND	2.756
39	9	35	36.162	2288	45	54.89N	63	27.77E	46	21N	63	18E	626856	24806	167	59	51	48	ND	ND	ND	2.756
40	9	35	38.442	2288	45	44.99N	63	30.53E	46	12N	63	21E	627071	24806	168	2	51	45	ND	ND	ND	2.756
41	9	35	40.723	2288	45	35.88N	63	33.28E	46	3N	63	24E	627298	24805	168	5	51	58	ND	ND	ND	2.756
42	9	35	43.002	2288	45	26.78N	63	36.01E	45	54N	63	26E	627511	24805	168	8	51	55	ND	ND	ND	2.756
43	9	35	45.282	2288	45	17.67N	63	38.72E	45	45N	63	29E	627734	24804	168	18	52	8	ND	ND	ND	2.756
44	9	35	47.563	2288	45	8.56N	63	41.41E	45	35N	63	32E	627962	24804	168	13	52	5	ND	ND	ND	2.756
45	9	35	49.848	2285	44	59.43N	63	44.18E	45	26N	63	35E	628191	24803	168	16	52	11	ND	ND	ND	2.758

TOP SECRET
SPECIAL HANDLING REQUIRED

HANDLE VIA
TALENT-KEYHOLE
CONTROL ONLY