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SECRET

PRIORITY

P 171906Z DEC 69
FM NPIC WASHDC
TO RHCOAAA/SAC OFFUTT AFB OMAHA NEB
RHCOAAA/544TH ARTW OFFUTT AFB OMAHA NEB
RUCILBA/100TH SRW OL 19 MCCOY AFB FLA
RUWMODA/100TH SRW DAVIS MONTHAN AFB ARIZ
RUWMODA/12 SAD DAVIS MONTHAN AFB ARIZ
RUEBJRA/NAVRECONTECHSUPPCEN SUITLAND MD
RUEAIIA/CIA WASH DC
RUCRJCS/DIA
RUWBKNA/15TH AF MARCH AFB RIVERSIDE CALIF
RUEFHQA/HQS USAF
BT
S E C R E T CITE NPIC 7635.
SAC FOR DIRI, DOSR, DISD, DM4C, DPLC; 100 SRW DAVIS MONTHAN AFB FOR DO, DCOI, DCM, AEMS; 12 SAD FOR MD; DIA FOR DIAXX-1; HQ USAF FOR AFIGOS, AFXOTR; 15TH AF FOR DI, DO, DM4C.
SUBJECT: EVALUATION OF OLD HEAD MISSION G-109, FLOWN 14 DECEMBER 1969

17 DEC 69 19 29Z

1. IMAGE QUALITY: THE IMAGE QUALITY OF THIS MISSION RANGES FROM FAIR TO GOOD WITH THE BEST QUALITY BEING OBSERVED ON THE FWD FRAMES. A DISTINCT DIFFERENCE IN IMAGE SHARPNESS EXISTS BETWEEN MOST FWD AND CORRESPONDING AFT FRAMES. THIS DIFFERENCE IS SUCH THAT THE FWD IMAGERY WILL WITHSTAND AN ENLARGEMENT FACTOR OF APPROXIMATELY TWICE THAT OF THE AFT. A GENERAL OUT OF FOCUS APPEARANCE RESTRICTS VIEWING OF THE AFT MATERIAL AT MAGNIFICATIONS ABOVE 20X. THE INTERPRETATION SUITABILITY OF THIS MESSION IS GOOD; HOWEVER, SEVERAL INSTANCES WERE NOTED WHERE SMALL OBJECTS SUCH AS PEOPLE, LIVESTOCK, AND SMALL VEHICLES CAN BE IDENTIFIED ON THE FWD MATERIAL BUT ARE UNIDENTIFIABLE ON THE AFT MATERIAL. CLOUD COVER AND HAZE OBSCURED APPROXIMATELY 20 PERCENT OF THE ENTIRE MISSION.

2. MISSION DATA:
   A. MISSION NO: G-109, 14 DEC. 1969
   B. CAMER: IRIS II, SERIAL NO. 8011
   C. A/C NO: 339
   D. MODE: STEREO
   E. T/O: 1200Z, C/ON: 1425Z
   F. FILM TYPE: 3404
   G. CHEMISTRY: MX-819-1
   H. AVG. GAMMA: 1.70

3. ORIGINAL NEGATIVES:
   A. EXPOSURE: THE EXPOSURE RANGES FROM SLIGHTLY UNDEREXPOSED AT THE BEGINNING OF THE MISSION TO ADEQUATE AT THE END.
   B. DESNITY AND CONTRAST: THE DENSITY NEAR THE BEGINNING OF THE MISSION IS SLIGHTLY LESS THAN OPTIMUM BUT IMPROVES AS THE MISSION PROGRESSES. THE CONTRAST IS MEDIUM.
   C. IMAGED DEGRADATIONS:
      (1) BANDING IS DETECTABLE IN LOW DENSITY AND LOW CONTRAST AREAS NEAR THE TAKE-UP AND SUPPLY ENDS OF MOST FRAMES.
      (2) FOG ASSOCIATED WITH CAMERA START-UP/SHUT-DOWN IS PRESENT ON FRAMES 1, 3 AND 1032 THROUGH 1039.
      (3) AN EQUIPMENT SHADOWGRAPH (FOG PATTERN) IS PRESENT 22 INCHES FROM THE SUPPLY END OF ALL FWD AND AFT FRAMES. CHARACTERISTICS OF THE PATTERN ARE DESCRIBED IN THE EVALUATION OF MISSION G-106 AND G-107.
      (4) A SMALL FOG PATTERN IS PRESENT 15 INCHES FROM THE TAKE-UP END OF ALL FWD AND AFT FRAMES. THIS SAME FOG PATTERN IS PRESENT ON THE MATERIAL OF MISSION G-107 AND A DESCRIPTION OF THE PATTERN IS PRESENTED IN THE EVALUATION OF THE MISSION.

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D. PHYSICAL DEGRADATIONS:

(1) MINOR LONGITUDINAL EMULSION SCRATCHES ARE PRESENT INTERMITTENTLY THROUGHOUT THE MISSION. MORE PROMINENT, CONTINUOUS LONGITUDINAL EMULSION SCRATCHES ARE PRESENT ON FRAMES 1 THROUGH 90 AND 451 THROUGH 540.

(2) TWO ULTRASONIC SPLICES AND THREE HEAT SPLICES ARE PRESENT IN THE MISSION MATERIAL.

E. DATA RECORDING EQUIPMENT: FUNCTIONED PROPERLY THROUGHOUT THE MISSION.

F. OTHER: THE LAST TITLED FRAME IS 1039. THE LAST COUNTER NUMBER IS 1044. A BIAS OF FIVE EXISTS THROUGHOUT THE MISSION.

4. POSITIVES: ADEQUATE FOR EXPLOITATION PURPOSES.

GP-1

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--ENDOF MESSAGE--

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