

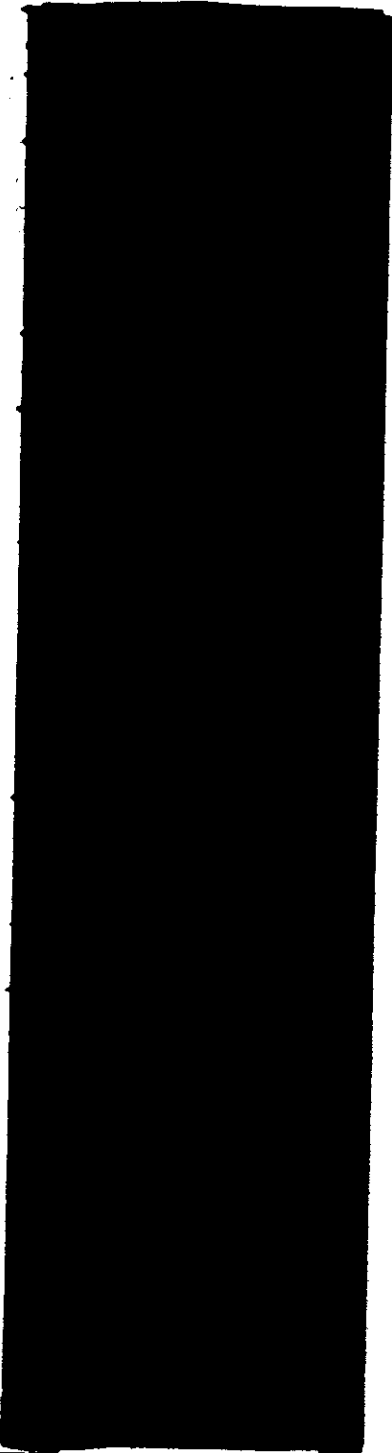
*(Handwritten signature/initials)*

1106 PET ATTENDEES



NAME

ORGANIZATION



Res Off

Res Off

Res Off

Res Off

ACIC

USAF

USAF

AMS

EK

EK

ITEK

ITEK

ITEK

DD/S&T

DD/S&T

LMSC

LMSC

LMSC

ITEK

ITEK

Declassified and Released by the NRO  
in Accordance with E. O. 12958  
on NOV 26 1997

GROUP 1  
Excluded from automatic  
downgrading and  
declassification

## PRELIMINARY MISSION DATA STATISTICS

MISSION: 1106-1

1. Launch: 5 February 1969, 2169Z
2. Photo Dates: 5 - 9 February 1969
3. Recovery: 10 February 1969 0009Z
4. No. of Passes: 20 Operational, 6 Domestic, 2 Engineering
5. Altitude; 81 NM to 112 NM
6. Scale: 1:244,936 to 1:339,288
7. L/NM: 55,860 Operational; 2590 Domestic
8. SQ/NM: 6,814,920 Operational; 315,980 Domestic
9. Pan Frames: 2950 FWD; 2952 AFT
10. Pan Footages: 7778 FWD (ft); 7842 AFT (ft)
11. Stellar Frames: 2146 Port; 2146 Starboard
12. Stellar Footages: 606 ft.
13. Index Frames: 2146
14. Index Footages: 1019 ft.
15. MIP Rating: 105
16. MIP Frame: D032 Fr 8 Fwd ; Corresponding: D032 Fr 14 AFT
17. Weather: 85 percent cloud free

## PRELIMINARY MISSION DATA STATISTICS

MISSION: 1106-2

1. Launch: 5 February 1969 2159Z
2. Photo Dates: 9 - 14 February 1969
3. Recovery: 14 February 1969 2359Z
4. No. of Passes: <sup>23A</sup>23F Operational, <sup>1A</sup>3F Domestic, <sup>2A</sup>3F Engineering
5. Altitude; 79 NM to 112 NM
6. Scale: 1:240,536 to 1:336,056
7. L/NM: 54,170 Operational; 1830 Domestic
8. SQ/NM: 6,717,080 Operational; 226,920 Domestic
9. Pan Frames: 3046 Fwd 2182 (3404), 347 (S0-121) Aft
10. Pan Footages: 8027 Fwd; 5765 (3404), 911 (S0-121) Aft
11. Stellar Frames: 2499 Port; 2500 Starboard
12. Stellar Footages: 658 ft.
13. Index Frames: 2262
14. Index Footages: 993 ft.
15. MIP Rating: 105
16. MIP Frame: D113 Fr 3 Corresponding: none
17. Weather: 80 percent cloud free.

SUMMARY OF ANOMALIES

Mission 1106

Fwd Looking Camera #313

BUCKET

ANOMALY

- A            The imagery on passes D01 through D05 is severely smeared due to a V/H mismatch.
- A&B        A plus density bleeding between binary bits is present on all data blocks throughout the mission.
- A&B        Slight vignetting of the starboard horizon is apparent on frames that display low density imagery. (Example:
- A&B        A minor fog pattern is present on the first frame of a few camera operations when low density imagery is present. (Example: Pass D04, A09E, D90)
- A            Minus density dots are present at a repeating interval of three and one eighth inches, on frames 14 through 17 of pass D01. These dots appear to be areas of unprocessed film.
- B            Instances of image smear are present on Pass D113.
- A&B        Manufacturing splices are located in the following frames and passes:

<u>Pass</u>	<u>Frame</u>
D22	132
D37	67
D55	196
D78	6

Aft-Looking Camera #312

BUCKET

ANOMALY

- A The imagery on passes D01 through D05 is severely smeared due to a V/H mismatch.
- A&B Slight vignetting of the starboard horizon is apparent on frames that display low density imagery. (Example: Pass D06, D08, D18[NOFORN])
- A&B A minor fog pattern is present on the first frame of a few camera operates when low density imagery is present. (Example: Pass D04, D08, A09E)
- A&B On passes D25, D39, D40, D48, and D55 the starboard horizon shutter failed to close for one cycle and remained open during film transport. Due to this anomaly two frames are heavily fogged with each occurrence.
- A&B Plus density pressure marks are present through many of the starboard horizon blocks caused by a horizon clamp. (Example: Pass D01, D02, A09E [All NOFORN])
- A Numerous minus density spots are present on frames one through five of pass D01. These spots appear to be areas of unprocessed film.
- A Very minor emulsion scratches are present intermittently throughout the mission (Example: Pass D01, D02 [Both NOFORN])
- B Interrupted plus density scratches are present along the major axis near the center of the format intermittently throughout the mission (first noted on Pass D70).
- A&B Manufacturing splices are located in the following frames and passes:

<u>Pass</u>	<u>Frame</u>
D24	93
D54	18
D74	54

Part of frame 169 and all of frame 170 of pass D103 was exposed on the material change detector (MCD) separating film type 3404 and S0-121.

BUCKETANOMALY

B

The end of the aft record consisted of 2000 feet of S0-121 color film. Color acquisition began on Pass D103, frame 171. Due to a system malfunction, frame 129 of Pass D105 was the last frame recovered. (A total of 347 frames or approximately 911 feet.)

B

Dendritic and corona static discharges are present intermittently throughout the S0-121 film type record.

**Stellar Cameras**

The stellar cameras were operational throughout the mission. The binary time word and reseau image are present throughout.

Approximately 75 port and 15 starboard point-type stellar images can be detected throughout the mission.

The characteristic pressure induced fog pattern is continuous on the time word edge of the stellar record. This fog pattern is more dense than normal, and in many instances has a spur that projects towards the center of the film near the time word. This had no effect on the automatic time word readout.

**Index Camera**

The index camera was operational throughout Mission 1106. The binary time word and reseau image are present throughout. The image quality of the index record is good and slightly better than that obtained from Missions 1103 and 1104.

Very minor edge static is present intermittently throughout the index record. Some corona static is present on the index record of Mission 1106-2.

Plus density pressure patterns are present between most camera formats throughout the mission.



FOLLOWING IS A LIST OF RESOLUTION TARGETS COVERED ON MISSION 1106.  
X-Y COORDINATES OF THE TARGETS WERE DETERMINED BY UTILIZING THE KH-4B GRID SYSTEM.

PASS	FRAME	X-COORD	Y-COORD	LOCATION
D032	3FWD	11.2	3.5	INDIAN SPRINGS, NEV.
D032	9AFT	64.7	2.7	INDIAN SPRINGS, NEV.
D032	8FWD	8.0	2.0	LAS VEGAS, NEVADA
D032	14AFT	58.3	4.4	LAS VEGAS, NEVADA
D048	7FWD	18.3	5.0	MESA, ARIZONA
D048	13AFT	57.2	1.3	MESA, ARIZONA
D13 (MON 0)	5FWD	48.2	2.6	PALO ALTO, CALIF.

PASS	Prog. Frs.	Act. Frs.	Prog. Frs.	Act. Frs.	or I	DATE	CLASS	REMARKS
1	1-2				I	5F:		
	3-8				D		1-9 TSCN	
	9	9			I			
2	1-2	2			D	6 Feb.	1-2 TSCN	
3	1-23	23			I			
4	1-12				D			
	13-69	69			I			
5	1-9				I			
	10-18				D			
	19-29				I			
	30-40				D			
	41-104	104			I			
6	1-8	8			D			
7	1-19				D			
	20-35				I			
	36-47				D			
	48-250	250			I			
8	1-22	22			D			
9	1-33	33			D		1-3 TSCN	
10	1				I			
	2-8				D			
	9-105	106			I			
14	1-137	137			I		1-13 TSCN	
15	1-74	74			I		1-34 TSCN 35-43 TSCN	
16	1-55	55			I		1-18 TSCN 19-50 TSCN	51-55 TSCN
18	1-10				D	7 Feb	8-15 TSCN 16-59 TSCN	Possible Edit 38-42 Ranch
	11-235	235			I		60-65 TSCN	
19	1-31	31			I			
20	1-53	53			I			
21	1-16				D			
	17-22				I			

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FORMING PASS	INDEX		STELLAR		or I	DATE	CLASS	REMARKS
	Prog. Frs.	Act. Frs	Prog. Frs	Act. Frs.				
21	23-49				D			
	50-71				I			
	72-84				D			
	85-118	117	11		I			
22	1-29	29			D			
23	1-14	14			D			
24	1-28	28			D			
25	1-50	50			D		1-3 TSCN	
32	1-4	4			D		1-4 TSCN	1-3 Edit Patch
37	1-31	31			D	8 Feb.		
38	1-72	72			D			
39	1-44	44			D			
40	1-36	36			D			
41	1-22				I			
	23-30				D			
	31-100	100			I			
42	1-16				I			
	17-23				D			
	24-119	119			I			
43	1-60	60			I			
48	1-4	4			D		1-4 TSCN	
50	1-4	3			D		1-4 TSCN	
53	1-13				D	9 Feb.		
	14-61	61			I			
54	1-19				D			
	20-29				I			
	30-49				D			
	50-163	163			I			
55	1-28				D			
	29-42				I			
	43-100				D			

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PASS	Prog. Frs.	Act. Frs.	Prog. Frs.	Act. Frs.	or I	DATE	CLASS	REMARKS
55		145-154	(10)	76 2/27	I	9 Feb		FIG. 4 SECTION Fe 145
56	1-36	36			D			
57	1-4				D			
	5-34				D			1-9 TSCN
	35-51				D			
	52-53				D			
	54-62				D			
	63-68				D			
	69-80				D			
	81-89				D			
	90-98				D			
	99-123	123			D			
64	1-10	10			D			1-10 TSCN
69	1-50	50			D	10 Feb		
70	1-20				D			
	21-24				D			
	25-45				D			
	46-54				D			
	55-71				D			
	72-163	163			D			
71	1-17				D			
	18-24				D			
	25-145	145			D			
72	1-4	4			D			
73	1-14				D			
	15-19				D			
	20-24				D			
	25-30				D			
	31-44				D			
	45-118	118			D			

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PASS	STELLAR		DATE	CLASS	REMARKS
	Prog. Frs.	Act. Frs.			
74	1-19	19			
81	1-3	3			
85	1-18				
	19-21	90			
86	1-18				
	19-30				
	31-50				
	51-63				
	64-155	156			
87	1-7				
	8-17				
	18-22				
	23				
	24-32				
	33-156	156			
88	1-6	6			
89	1-20				
	21-29				
	30-118	118			
90	1-16	16			
99	1-21	21			
00	1-62	62			
01	1-35	35			
02	1-28	28			
03	1-11				
	12-26				
	27-36				
	37-44				
	45-52				
	53-70				
	71-151	151			

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PASS	INDEX		STELLAR		or I	DATE	CLASS	REMARKS
	Prog. Frs.	Act. Frs.	Prog. Frs.	Act. Frs.				
04	1-33	33			D			
05	1-32				D			
	33-116	116			H			
06	1-54				D			
	55-61				H			
	62-142	142			H			
07	1-113	113			D			
09	1-3	3			D			
13	1-1				D			
	2-3	3			H			
15	1-186	186			H	13 Feb		
16	1-56	56			H			
17	1-37	37			H			
18	1-6				D			
	7				H			
	8-12	12			D			
19	1-29	29			D			
20	1-5	5			D			
21	1-18	18			D			
35	1-18	1-9 (9)			D	14 Feb		
<del>6</del>	<del>1-241</del>				<del>H</del>			
<del>8</del>	<del>1-3</del>				<del>D</del>			

S P  
18 18  
S P  
223 217

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Material OK in system  
described marks during  
edge floating during process.

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