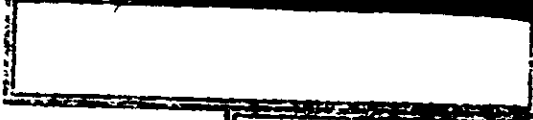
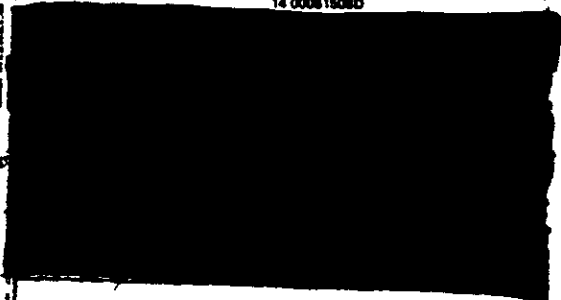


CLASSIFIED MESSAGE



~~TOP SECRET~~



15

INFO

CITE

~~TOP SECRET~~ 052043Z CITE NPIC

PRIOTY OPCEN (MULTI ADDEE)

TALENT KEYHOLE CHANNELS

CITE

SSO SAC ALSO FOR 544 ARTW.

SUBJECT: CAMERA INFORMATION FOR MISSION 1045-1

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS	FORWARD	AFT	STAR	PORT
FOCAL LENGTHS (MM)	609.613	609.613	HOR FWD 55.000 AFT 55.000	HOR FWD 55.00 AFT 55.00
FILTER (WRITTEN NR)	23A	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH (IN)	.225	.175	---	---
EXPOSURE (SEC)	1/100	1/100	---	---
FILM	3404	3404	3404	3404
RESOLUTION (L/MM)	192	198	NA	NA

NOTE: THE MAIN CAMERAS USED IN THIS MISSION ARE CALIBRATED PANORAMIC GEOMETRY CAMERAS (PAN. G. NR 7) AND WILL RESULT IN CROSS FRAME TITLING.

B. S/I UNITS
FOCAL LENGTH (MM) PART 1 STELLAR 83.947100

INDEX 38.342500

Declassified and Released by the N R

In Accordance with E. O. 12958

NOV 26 1997

~~TOP SECRET~~

GROUP 1
EXCLUDED FROM AUTOMATIC
DOWNGRADING AND
DECLASSIFICATION



FILTER (WRITTEN NR)	PART 2	84.2475	38.3616
APERTURE		NONE	21
EXPOSURE (SEC)		F1.8	F4.5
FILM		2.8	1/500
RESOLUTION (L/MM)	PART 1	3401	3400
	PART 2	----	73
UNIT NUMBER	PART 1	----	72
	PART 2	D199/137/138	
		D198/139/141	

3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN UNITS	3	2	1	0	359	358	357
FWD UNIT	.003	.001	0	0	0	.001	.003
AFT UNIT	.005	.002	0	0	.001	.002	.003

B. HORIZON CAMERAS (MM)

		FWD	AFT
(RADIAL)	10 DEGREES	PORT .020	STAR .020
	20 DEGREES	PORT .040	STAR .050
(TANGENTIAL)	MAX VECTOR	PORT .010	STAR .020

4. CAMERA ANGLES

A. ANGLE BETWEEN PAN CAMERAS	DEG.	MIN.
B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	29	45.29

FWD STAR	14	29.8
FWD PORT	14	50.2
AFT STAR	15	29.8
AFT PORT	15	0.1
PART 1	89	58.1
PART 2	89	57.7

C. ANGLE BETWEEN STELLAR AND INDEX CAMERAS

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

NO.	REF. LEVEL		NO.	AMPL. LEVEL		PASSES
	CPS.	GAV.		CPS.	GAV.	
7	.3384	.0336	4	.3960	.0087	ID 50 THRU 1020
7	.3384	.0306	3	.1085	.0098	

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME)			
	DAY	HR	MIN	SEC
D 24	23	55	35	
D 25	06	00	13	

PROGRAM ON TIME UP RAMP	PROGRAM DURATION
1281	38
1262	36

502	25	06	02	01
601	25	07	27	12
602	25	07	32	24
603	25	07	33	55
604	25	07	35	55
701	25	09	00	55
702	25	09	04	46
5AE	25	10	09	24
801	25	10	28	29
802	25	10	33	12
90	25	12	06	01
100	25	13	42	01
160	25	22	41	08
200	26	04	38	38
210	26	06	10	07
2201	26	07	41	28
2202	26	07	46	46
230	26	09	11	51
250	26	12	17	37
260	26	13	46	50
270	26	15	24	31
300	26	22	51	18
350	27	03	18	08
360	27	04	48	14
370	27	06	20	34
3801	27	07	50	15
3802	27	07	56	14
390	27	09	20	23
4001	27	10	49	36
4002	27	10	57	41
410	27	12	28	38
420	27	13	58	45
5201	28	05	00	55
5202	28	05	04	04
5203	28	05	20	26
530	28	06	35	00
540	28	08	05	46
550	28	09	35	31
5601	28	11	09	27
5602	28	11	13	14
570	28	12	37	32
5801	28	14	11	18
5802	28	14	15	23
5803	28	14	17	32
630	28	21	44	05
670	29	03	40	29
6801	29	05	12	42
6802	29	05	15	57
6901	29	06	46	17

1370	73
1046	70
1359	38
1450	59
1570	159
1234	92
1465	60
----	--
1051	113
1333	56
1468	29
1792	35
1525	68
1210	75
1264	99
1311	111
1629	106
1299	82
1575	157
1495	120
1923	29
1563	77
1257	43
1219	111
1317	31
1253	253
1617	73
1219	122
1130	68
1614	61
1629	104
1593	75
1304	86
1493	24
2475	108
1508	45
1514	23
1458	32
1653	73
1881	94
1497	40
1683	37
1927	85
2056	43
1652	51
1277	45
1370	33
1565	76
1546	81

Y0D2	29	06	51	22		
70D	29	08	15	03	1851	104
71D	29	09	47	47	1434	58
72D	29	11	27	27	1558	98
74D1	29	14	22	50	2101	73
74D2	29	14	28	11	1746	37
78D	29	20	27	36	2067	40
83D	30	03	53	18	1881	111
84D	30	03	55	33	1436	135
85D1	30	06	53	42	1521	40
85D2	30	07	00	58	1387	267
86D1	30	08	23	34	1823	122
86D2	30	08	26	55	1343	67
88D	30	11	32	05	1544	36
99D	31	04	03	43	1780	53
100D	31	05	35	55	1493	68
101D1	31	07	02	00	1589	243
101D2	31	07	03	17	1319	41
101D3	31	07	09	04	1397	321
101D4	31	07	14	27	1743	101
102D1	31	08	34	36	2066	96
102D2	31	08	42	07	1444	421
102D3	31	08	44	35	1894	56
					2042	132

NOTE: ABOVE DATA APPLIES TO FWD UNIT ONLY. ADD 12 SECONDS TO OBTAIN START TIMES OF AFT.

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
8	281914.499	36318.3590	---
16	327106.501	81510.3608	0
24	368973.100	36976.9600	0
31	408677.940	76681.8004	0
40	456026.553	37630.4141	0
47	495792.498	77396.3599	.001
56	6294.346	38369.1212	.001
63	46039.305	78114.0815	.002
71	87908.051	33582.8291	.001
79	133108.029	78782.8091	.002

NOTE: ALL "DIFFERENCE" VALUES ARE MINUS.