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(Including Cover Sheet)

CORONA "J" FLIGHT DATA BOOK

SYSTEM NO. J-18

VEHICLE NO. 1608

MISSION NO. 1016-2

CAMERA NOS. 132 & 133

Prepared by:

Checked by:

Approved by:

Approved by:

Manager

Declassified and Released by the NRO

In Accordance with E. O. 12958

on NOV 26 1997

1 FEB 1968

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SYSTEM NO. J-18
VEHICLE NO. 1608
MISSION NO. 1016-2
CAMERA NOS. 132 & 133

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SYSTEM NO. J-18
VEHICLE NO. 1608
MISSION NO. 1016-2
CAMERA NOS. 132 & 133

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GENERAL FLIGHT DATA:

Master Camera Serial No. 132

Slave Camera Serial No. 133

Stellar Index "A" Serial No. 055

Stellar Index "B" Serial No. 059

Launch Date 15 JAN. 1965

Reactivation Date N/A

Reactivation Orbit No. N/A

Orbital Parameters: (Rev. 110)

Period 90.523 Min.

Eccentricity .01841

Perigee 100.6 NM

Perigee Latitude 43.4 Deg. N

Apogee 233.4 NM

Inclination Angle 74.94 Deg. N

Recovery Orbit No. 159

Recovery Date 25 JAN. 1965

REMARKS:

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SYSTEM NO. T-1B
 VEHICLE NO. 160B
 MISSION NO. 1016-2
 CAMERA NOS. 1322133

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CYCLE PERIOD DATA:

PRE-FLIGHT CYCLE PERIODS:

V/H Ramp Level	V/H Ramp Amplitude	Cycle Period Seconds		Time Up Ramp Sec
		Master	Slave	
7	4	4.583	4.591	417
7	4	2.246	2.256	2157
7	4	2.212	2.224	1923
6	5	2.211	2.223	1935
6	5	2.211	2.223	1974
6	5	2.212	2.224	2009

IN-FLIGHT CYCLE PERIODS

V/H Ramp Level	V/H Ramp Amplitude	Cycle Period Seconds		Orbit No.	Time Up Ramp Sec
		Master	Slave		
7	4	4.680	4.640	88	417
7	4	2.320	2.320	94	2157
7	4	2.252	2.274	110	1923
6	5	2.230	2.270	126	1935
6	5	2.260	2.280	142	1974
6	5	2.310	2.300	158	2009

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SYSTEM NO. J-18
 VEHICLE NO. 1608
 MISSION NO. 1016-2
 CAMERA NOS. 132 & 133

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LENS DATA SUMMARY STELLAR INDEX D59/50/59 2 MISSION

	<u>Stellar</u>		<u>Index</u>	
Lens Serial No.	<u>11237</u>		<u>813056</u>	
Reseau Serial No.	<u>59</u>		<u>50</u>	
Filter Type	<u>NONE</u>		<u>WRATTEN 21</u>	
Aperture	<u>F/1.8</u>		<u>F/4.5</u>	
Exposure Time	<u>2</u>	Sec.	<u>1/500</u>	Sec.
Equivalent Focal Length	<u>N/A</u>	MM	<u>38.19</u>	MM

Resolution:

Angle Off Axis	0	10	20	30	35
Resolution L/MM	82/	87/	107/	95/	89/
High Contrast	/82	/87	/89	/48	/25

NOTE: Index Resolution of 75 Lines/MM AWAR
 Read From 4400 Film.

Distortion:

All distortions less than maximum allowable. Full Data to be reported as part of Photogrammeter Data Reduction.

Alignment:

.0006 "1.957 Inches .0002 "2.25 Inches

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SYSTEM NUMBER J-18
VEHICLE NUMBER 1608
MISSION NUMBER 1016
PANORAMIC CAMERA NUMBERS 132 AND 133

PERFORMANCE ESTIMATE

SUB	PROG	CAM NO.	PAN FR.	SI FR.	LAT.		TIME ON		TUR NO	DUR SEC.	SOLAR		EXPOS.	
					ON	OFF	ZD	ST			ON	OFF	ON	OFF
CUT/WRAP		132	4	0										
CUT/WRAP		133	4											
83	5 1	132	106	15	259	244	21	8259	7 4	1505	251	8 25	4.1 3.8	
83	5 1	133	105		260	245	21	8259	7 4	1505	251	7 24	2.9 2.7	
84	5 1	132	39	06	254	248	2113791		7 4	1607	89 14	20	4.0 3.9	
84	5 1	133	38		254	249	2113791		7 4	1607	89 13	19	2.8 2.7	
84	5 2	132	65	09	241	231	2113997		7 4	1814	146 28	38	3.8 3.8	
84	5 2	133	65		241	232	2113997		7 4	1814	146 27	37	2.7 2.7	
85	5 1	132	100	14	263	249	2119060		7 4	1444	240 3	19	4.2 3.9	
85	5 1	133	99		264	250	2119060		7 4	1444	240 2	19	3.0 2.7	
85	5 2	132	32	05	241	237	2119417		7 4	1801	71 27	32	3.8 3.8	
85	5 2	133	32		242	238	2119417		7 4	1801	71 26	31	2.7 2.7	
86	9 1	132	135	19	263	244	2124494		7 4	1443	318 3	25	4.2 3.8	
86	9 1	133	134		264	245	2124494		7 4	1443	318 2	24	3.0 2.7	
88	3 0	132	10	02	139	142	2134291		7 4	380	48-65-62		8.8 8.6	
88	3 0	133	10		137	140	2134291		7 4	380	48-67-64		6.2 6.0	
88	3 1	132	31	04	231	227	2135870		7 4	1958	70 37	42	3.9 3.9	
88	3 1	133	30		232	228	2135870		7 4	1958	70 37	41	2.8 2.8	
89	1 1	132	26	04	302	307	2141819		7 4	2646	80 71	75	5.2 5.5	
89	1 1	133	26		301	306	2141819		7 4	2646	80 70	75	3.6 3.8	
93	1 1	132	35	05	238	233	2162935		7 4	2034	81 31	36	3.9 4.0	
93	1 1	133	35		239	233	2162935		7 4	2034	81 30	35	2.7 2.8	
93	1 2	132	33	05	224	219	2163141		7 4	2240	80 45	50	4.1 4.2	
93	1 2	133	33		225	220	2163141		7 4	2240	80 44	49	2.9 3.0	
94	1 1	132	28	04	233	229	2168436		7 4	1905	66 35	40	4.0 4.1	
94	1 1	133	28		234	230	2168436		7 4	1905	66 35	39	2.8 2.8	
99	8 1	132	82	11	253	241	22 8893		7 4	1612	191 15	28	4.0 3.8	
99	8 1	133	82		254	242	22 8893		7 4	1612	191 14	27	2.8 2.7	
100	8 1	132	96	14	264	250	2214139		7 4	1429	235 2	18	4.3 3.9	
100	8 1	133	96		265	251	2214139		7 4	1429	235 1	17	3.0 2.8	
100	8 2	132	29	04	242	238	2214498		7 4	1788	65 26	31	3.8 3.8	
100	8 2	133	29		243	238	2214498		7 4	1788	65 26	30	2.7 2.7	
100	8 3	132	75	11	235	224	2214607		7 4	1897	171 34	45	3.8 3.8	
100	8 3	133	75		236	224	2214607		7 4	1897	171 33	45	2.7 2.7	
101	3 1	132	97	14	261	247	2219625		7 4	1483	230 6	21	4.2 3.9	
101	3 1	133	96		262	248	2219625		7 4	1483	230 5	20	2.9 2.7	
101	3 2	132	36	05	243	238	2219915		7 4	1773	81 25	31	3.8 3.8	
101	3 2	133	36		244	239	2219915		7 4	1773	81 24	30	2.7 2.7	
102	3 1	132	118	17	260	243	2225073		7 4	1503	276 7	25	4.1 3.8	
102	3 1	133	118		261	244	2225073		7 4	1503	276 6	25	2.9 2.7	
104	1 1	132	42	06	255	249	2236021		7 4	1593	98 12	19	4.1 4.0	
104	1 1	133	41		256	250	2236021		7 4	1593	98 11	18	2.9 2.8	
104	1 2	132	43	06	206	300	2236774		7 4	2346	111 63	71	4.2 4.5	
104	1 2	133	43		207	300	2236774		7 4	2346	111 63	70	3.0 3.2	
110	1 1	132	28	04	238	234	2268882		7 4	1873	65 31	35	4.0 4.0	
110	1 1	133	28		239	234	2268882		7 4	1873	65 30	34	2.8 2.8	

115	5	1	132	42	06	254	248	23	9386	7	4	1632	97	13	20	3.9	3.9
115	5	1	133	42		255	249	23	9386	7	4	1632	97	13	19	2.8	2.7
115	5	2	132	43	06	243	237	23	9560	7	4	1806	96	25	32	3.8	3.8
115	5	2	133	42		244	238	23	9560	7	4	1806	96	24	31	2.7	2.7
116	5	1	132	57	08	258	250	231	4750	7	4	1568	132	9	18	4.0	3.9
116	5	1	133	56		258	250	231	4750	7	4	1568	132	8	17	2.9	2.8
116	5	2	132	57	08	242	233	231	5007	7	4	1825	127	26	35	3.8	3.8
116	5	2	133	56		242	234	231	5007	7	4	1825	127	25	34	2.7	2.7
117	4	1	132	114	17	264	248	232	0075	7	4	1464	267	1	20	4.1	3.8
117	4	1	133	114		265	249	232	0075	7	4	1464	267	1	19	2.9	2.6
118	5	1	132	128	18	264	246	232	5507	7	4	1471	297	2	22	4.1	3.7
118	5	1	133	127		264	247	232	5507	7	4	1471	297	1	21	2.9	2.6
120	5	1	132	50	07	304	314	233	7442	7	4	2550	141	75	84	4.6	5.0
120	5	1	133	50		303	313	233	7442	7	4	2550	141	74	83	3.2	3.5
126	6	0	132	16	02	238	235	236	9369	6	5	1912	39	30	33	4.3	4.3
126	6	0	133	16		239	236	236	9369	6	5	1912	39	30	32	3.0	3.0
131	2	1	132	35	05	253	248	24	9880	6	5	1687	81	14	19	4.0	3.9
131	2	1	133	35		254	249	24	9880	6	5	1687	81	13	19	2.8	2.8
132	2	1	132	42	06	259	253	241	5211	6	5	1589	99	7	14	4.1	4.0
132	2	1	133	42		259	253	241	5211	6	5	1589	99	6	13	2.9	2.8
132	2	2	132	63	09	243	234	241	5466	6	5	1845	143	24	34	3.9	3.9
132	2	2	133	62		244	234	241	5466	6	5	1845	143	24	34	2.7	2.7
132	2	3	132	34	05	202	303	241	6092	6	5	2470	90	68	74	4.4	4.7
132	2	3	133	33		203	302	241	6092	6	5	2470	90	67	73	3.1	3.3
132	2	4	132	21	03	306	310	241	6219	6	5	2597	60	76	80	4.8	4.9
132	2	4	133	21		305	309	241	6219	6	5	2597	60	75	79	3.4	3.5
133	2	1	132	63	09	252	243	242	0755	6	5	1707	145	15	25	3.9	3.9
133	2	1	133	63		253	243	242	0755	6	5	1707	145	14	24	2.8	2.7
134	3	1	132	93	13	261	248	242	6035	6	5	1559	215	5	19	4.0	3.8
134	3	1	133	92		262	248	242	6035	6	5	1559	215	4	18	2.8	2.7
135	4	1	132	85	13	258	246	243	1514	6	5	1612	195	8	21	3.9	3.8
135	4	1	133	85		259	247	243	1514	6	5	1612	195	7	20	2.8	2.6
140	4	1	132	32	04	223	218	245	9211	6	5	2178	74	46	51	3.9	4.0
140	4	1	133	31		223	219	245	9211	6	5	2178	74	45	50	2.8	2.9
142	4	0	132	17	03	238	235	246	9834	6	5	1949	40	30	32	4.1	4.1
142	4	0	133	17		239	236	246	9834	6	5	1949	40	29	32	2.9	2.9
147	9	1	132	43	06	255	249	251	0308	6	5	1692	97	11	18	3.9	3.8
147	9	1	133	42		256	250	251	0308	6	5	1692	97	10	17	2.7	2.7
147	9	2	132	136	19	241	221	251	0529	6	5	1913	311	26	48	3.8	3.9
147	9	2	133	134		242	222	251	0529	6	5	1913	311	25	47	2.7	2.8
148	9	1	132	43	06	258	252	251	5687	6	5	1643	99	7	14	3.9	3.8
148	9	1	133	43		259	253	251	5687	6	5	1643	99	6	13	2.8	2.7
148	9	2	132	57	08	243	235	251	5926	6	5	1882	128	23	32	3.8	3.8
148	9	2	133	57		244	236	251	5926	6	5	1882	128	23	31	2.7	2.7
148	9	3	132	93	14	232	218	251	6097	6	5	2053	217	35	50	3.8	4.0
148	9	3	133	92		233	219	251	6097	6	5	2053	217	34	49	2.7	2.8
149	5	1	132	94	13	264	251	252	1013	6	5	1544	219	0	15	4.0	3.8
149	5	1	133	93		265	252	252	1013	6	5	1544	219	-0	14	2.9	2.7
149	5	2	132	71	10	245	235	252	1325	6	5	1855	158	21	32	3.8	3.8
149	5	2	133	70		246	236	252	1325	6	5	1855	158	21	31	2.7	2.7
150	6	1	132	147	21	258	237	252	6545	6	5	1649	334	7	30	3.9	3.8
150	6	1	133	145		259	238	252	6545	6	5	1649	334	6	29	2.8	2.7
151	3	1	132	35	05	232	227	253	2381	6	5	2059	81	35	41	3.9	4.0
151	3	1	133	35		233	228	253	2381	6	5	2059	81	34	40	2.7	2.8
156	8	1	132	27	04	225	221	255	9635	6	5	2185	65	43	47	4.1	4.2

156	8	1	133	27	226	221	2559635	6	5	2185	65	42	46	2.9	2.9	
158	8	0	132	16	02	237	234	2570304	6	5	2005	39	30	33	4.3	4.3
158	8	0	133	16		238	235	2570304	6	5	2005	39	29	32	3.0	3.0

AAA BB C DDD EEE FF GHH GII JJKKKKK LLMM NNNN OOO PP QQ RRR SSS

- A REVOLUTION NUMBER
- B PROGRAM NUMBER
- C OPERATION NUMBER
- D PAN. CAMERA SERIAL NUMBER (MASTER IS EVEN, SLAVE IS ODD)
- E EST. NO OF PAN FRAMES, BASED ON COUNTER READINGS INFLITE
- F EST. NUMBER OF STELLAR/INDEX FRAMES
- G QUADRANT
- H EST. LATITUDE OF FIRST FORMAT CENTER IN PASS
- I EST. LATITUDE OF LAST FORMAT CENTER IN PASS
- J ZULU DATE
- K SYSTEM TIME IN SECONDS (GMT)
- L FMC PROGRAMMER REFERENCE LEVEL
- M FMC PROGRAMMER AMPLITUDE LEVEL
- N EST. TIME UP RAMP IN SECONDS TO OPERATE COMMAND
- O EST. SECONDS DURATION OF OPERATION, BETWEEN ON AND OFF
- P SOLAR ELEVATION AT ITEM H
- Q SOLAR ELEVATION AT ITEM I
- R EST. MILLISECONDS EXPOSURE TIME AT ITEM H
- S EST. MILLISECOND EXPOSURE TIME AT ITEM I

- NOTES 1) MISSION 1016-2 WAS NOMINALLY PROGRAMMED FOR DEACTIVATION ON REV 089. THIS WAS NOT DONE, SO THE V/H PROGRAMMER START DELAY STEP SHOULD HAVE BEEN CHANGED ON REV 088. DUE TO AN OVERSIGHT ON THE PART OF A/P PERSONNEL THE CHANGE WAS NOT MADE UNTIL REV 095. THIS WILL CAUSE THE OPERATIONS ON REVS. 089, 093, AND 094 TO HAVE SLIGHTLY HIGHER FMC MISMATCH THAN DESIRABLE.
- 2) LAST 5 FRAMES OF FIRST MISSION ARE IN THIS CAPSULE.
- 3) TM INDICATES NORMAL OPERATIONS THRUOUT MISSION.
- 4) FT/FRAME, PAN-2.645 INDEX-0.198 STELLAR-0.099

RAMP PROFILES

J- 18 RAMP		R- 6 A- 5	
R=	0.3370	A=	0.1197
TIME	PERIOD	CPS	RAMP GAV
0	4.600	0.2174	0.01966
50	4.593	0.2177	0.01969
100	4.574	0.2186	0.01977
150	4.542	0.2201	0.01991
200	4.499	0.2223	0.02010
250	4.445	0.2250	0.02035
300	4.381	0.2283	0.02065
350	4.308	0.2321	0.02099
400	4.229	0.2365	0.02139
450	4.143	0.2414	0.02183

500	4.052	0.2468	0.02232
550	3.959	0.2526	0.02285
600	3.863	0.2589	0.02342
650	3.765	0.2656	0.02402
700	3.668	0.2726	0.02466
750	3.571	0.2800	0.02532
800	3.476	0.2877	0.02602
850	3.383	0.2956	0.02673
900	3.292	0.3037	0.02747
950	3.205	0.3120	0.02822
1000	3.120	0.3205	0.02898
1050	3.040	0.3290	0.02975
1100	2.961	0.3377	0.03054
1150	2.864	0.3491	0.03157
1200	2.775	0.3604	0.03260
1250	2.692	0.3715	0.03360
1300	2.616	0.3822	0.03457
1350	2.547	0.3926	0.03551
1400	2.485	0.4024	0.03640
1450	2.429	0.4117	0.03724
1500	2.379	0.4203	0.03801
1550	2.336	0.4281	0.03872
1600	2.299	0.4351	0.03935
1650	2.267	0.4412	0.03990
1700	2.241	0.4463	0.04037
1750	2.220	0.4505	0.04074
1800	2.205	0.4536	0.04102
1850	2.195	0.4556	0.04121
1900	2.190	0.4566	0.04130
1950	2.191	0.4565	0.04129
2000	2.196	0.4553	0.04118
2050	2.207	0.4530	0.04097
2100	2.224	0.4497	0.04067
2150	2.245	0.4454	0.04028
2200	2.273	0.4400	0.03980
2250	2.306	0.4337	0.03923
2300	2.344	0.4266	0.03858
2350	2.389	0.4186	0.03786
2400	2.440	0.4099	0.03707
2450	2.497	0.4005	0.03622
2500	2.560	0.3906	0.03532
2550	2.631	0.3801	0.03438
2600	2.708	0.3693	0.03340
2650	2.792	0.3581	0.03239
2700	2.883	0.3468	0.03137
2750	2.978	0.3358	0.03037
2800	3.056	0.3273	0.02960
2850	3.137	0.3188	0.02883
2900	3.222	0.3104	0.02807
2950	3.310	0.3021	0.02732
3000	3.401	0.2940	0.02659
3050	3.495	0.2861	0.02588
3100	3.591	0.2785	0.02519
3150	3.687	0.2712	0.02453
3200	3.785	0.2642	0.02390

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3250	3.882	0.2576	0.02330
3300	3.978	0.2514	0.02274
3350	4.071	0.2457	0.02222
3400	4.160	0.2404	0.02174
3450	4.245	0.2356	0.02131
3500	4.323	0.2313	0.02092
3550	4.394	0.2276	0.02058
3600	4.456	0.2244	0.02030
3650	4.509	0.2218	0.02006
3700	4.550	0.2198	0.01988
3750	4.579	0.2184	0.01975
3800	4.596	0.2176	0.01968

J- 18	RAMP	R- 7 A- 4	
R=	0.3250	A= 0.1290	RAMP
TIME	PERIOD	CPS	GAV
0	5.102	0.1960	0.01773
50	5.093	0.1963	0.01776
100	5.068	0.1973	0.01785
150	5.026	0.1990	0.01800
200	4.969	0.2013	0.01820
250	4.898	0.2042	0.01847
300	4.814	0.2077	0.01879
350	4.720	0.2119	0.01916
400	4.617	0.2166	0.01959
450	4.507	0.2219	0.02007
500	4.392	0.2277	0.02059
550	4.274	0.2340	0.02116
600	4.154	0.2407	0.02177
650	4.033	0.2479	0.02243
700	3.913	0.2555	0.02311
750	3.795	0.2635	0.02383
800	3.680	0.2718	0.02458
850	3.568	0.2803	0.02535
900	3.459	0.2891	0.02615
950	3.355	0.2980	0.02695
1000	3.256	0.3071	0.02778
1050	3.162	0.3163	0.02861
1100	3.070	0.3257	0.02946
1150	2.959	0.3380	0.03057
1200	2.856	0.3502	0.03167
1250	2.762	0.3621	0.03275
1300	2.676	0.3737	0.03380
1350	2.598	0.3849	0.03481
1400	2.528	0.3955	0.03577
1450	2.466	0.4055	0.03667
1500	2.411	0.4147	0.03751
1550	2.363	0.4231	0.03827
1600	2.322	0.4307	0.03895
1650	2.287	0.4372	0.03955
1700	2.258	0.4428	0.04005
1750	2.236	0.4473	0.04045
1800	2.219	0.4506	0.04076
1850	2.208	0.4528	0.04096
1900	2.203	0.4539	0.04105

1950	2.204	0.4538	0.04104
2000	2.210	0.4525	0.04093
2050	2.222	0.4500	0.04070
2100	2.240	0.4465	0.04038
2150	2.264	C.4418	0.03996
2200	2.294	C.4360	0.03943
2250	2.330	C.4292	0.03882
2300	2.372	C.4215	0.03812
2350	2.422	C.4129	0.03735
2400	2.478	C.4035	0.03650
2450	2.542	C.3934	0.03558
2500	2.613	0.3827	0.03461
2550	2.692	0.3714	0.03359
2600	2.780	0.3597	0.03254
2650	2.876	C.3477	0.03145
2700	2.980	0.3355	0.03035
2750	3.089	0.3237	0.02928
2800	3.180	0.3145	0.02844
2850	3.276	0.3053	0.02761
2900	3.376	0.2962	0.02679
2950	3.481	0.2873	0.02598
3000	3.590	0.2786	0.02520
3050	3.703	C.27C1	0.02443
3100	3.819	C.2619	0.02369
3150	3.937	0.2540	0.02297
3200	4.057	0.2465	0.02229
3250	4.178	0.2394	0.02165
3300	4.298	0.2327	0.02104
3350	4.416	0.2265	0.02048
3400	4.530	0.2208	0.01997
3450	4.638	C.2156	0.01950
3500	4.740	0.2110	0.01908
3550	4.832	0.2070	0.01872
3600	4.913	0.2035	0.01841
3650	4.981	0.2007	0.01816
3700	5.036	0.1986	0.01796
3750	5.074	0.1971	0.01782
3800	5.097	0.1962	0.01775

CLOCK CORRELATION

PAYLOAD J-18 VEH 1608 MISSION 1016-2

ORDER FIT 1

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
34356.167	108173.07190	34356.16260	0.00440	88	1
68521.208	142338.12290	68521.20950	-0.00139	94	1
34875.884	195092.80690	34875.88710	-0.00261	104	1
69034.484	229251.40890	69034.48500	-0.00059	110	1
29946.130	276563.05990	29946.13040	0.00005	119	1
30422.236	363439.17790	30422.23790	-0.00143	135	1
69895.203	402912.14890	69895.20420	-0.00065	142	1
30880.921	450297.87290	30880.92250	-0.00114	151	1
70364.352	489781.30390	70364.34870	0.00337	158	1

A0=-0.7381689634D 05 A1= 0.999999879748D 00
SIGMA=0.00209 NO. POINTS= 9

RATIO OF CLCK TIME TO SYS TIME= 0.100000012025D 01

PAYLOAD J-18 VEH 1608 MISSION 1016-2
ORDER FIT 2

SYS TIME I/P	CL TIME I/P	COMP SYS TM	DELTA ST	REV	STA
34356.167	108173.07190	34356.16490	0.00206	88	1
68521.208	142338.12290	68521.21040	-0.00232	94	1
34875.884	195092.80690	34875.88640	-0.00190	104	1
69034.484	229251.40890	69034.48360	0.00082	110	1
29946.130	276563.05990	29946.12840	0.00198	119	1
30422.236	363439.17790	30422.23640	0.00007	135	1
69895.203	402912.14890	69895.20340	0.00007	142	1
30880.921	450297.87290	30880.92320	-0.00185	151	1
70364.352	489781.30390	70364.35100	0.00106	158	1

A0=-0.7381688771D 05 A1= 0.999999808715D 00

A2= 0.1186676016674D-12

SIGMA=0.00150 NO. POINTS= 9