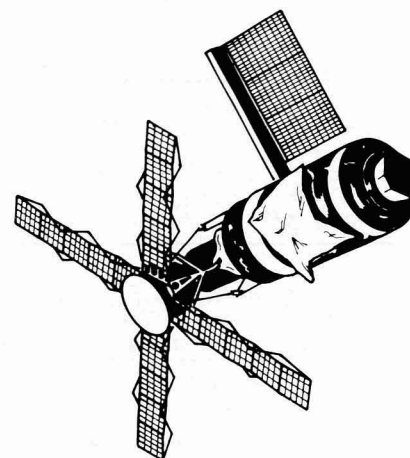
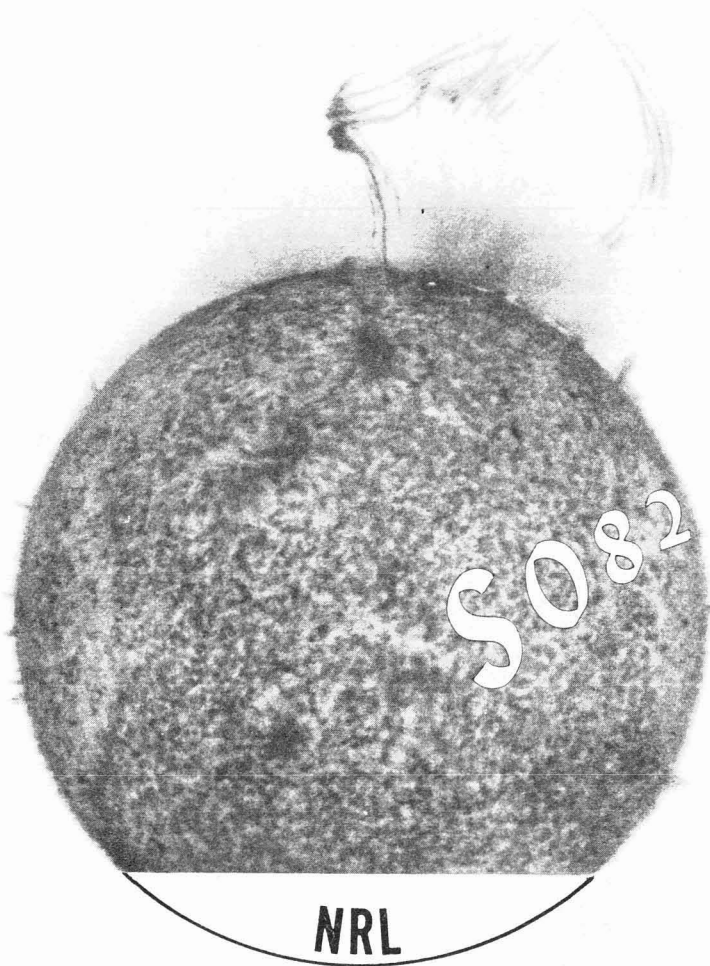


"B" Data Room

NRL/ATM

MISSION ENGINEERING DATA



Volume II

S082B SPECTROGRAPH
EXPOSURES 2B-301-1
THROUGH 2B-501-1

PREPARED FOR
UNITED STATES NAVAL RESEARCH LABORATORY
WASHINGTON, D.C.



BALL BROTHERS RESEARCH CORPORATION

SUBSIDIARY OF BALL CORPORATION

BOULDER, COLORADO

**A HUGE ERUPTION FROM THE SURFACE OF THE SUN SEEN
IN THE LIGHT OF HE II AT 304Å
9 AUGUST 1973**

This photograph, obtained during the Skylab 3 Mission, reveals for the first time that helium erupting from the sun can stay together to altitudes up to 500,000 miles. After being ejected from the sun, the gas clouds seem to have come to a standstill, as though blocked by an unseen wall, and some material appears to have been directed back toward the sun as rain, distinguished by fine threads. At present it is a challenge to explain this mystery — what forces expelled these huge clouds, then blocked its further progress, yet allowed the cloud to maintain its threads. Both magnetic fields and gravity must play a part, but these curious forms seem to defy explanation based on magnetic and gravitational fields alone.

The instrument which produced this image was an extreme ultraviolet spectroheliograph, designed and constructed by the Naval Research Laboratory and the Ball Brothers Research Corporation under the direction of Dr. R. Tousey, the Principal Investigator for this NASA experiment. To the left may be seen the sun's image in emission from iron atoms which have lost 14 electrons by collision in the sun's million-degree coronal plasma gas.



VOLUME II
ENGINEERING DATA - MSFC

NRL/ATM
MISSION ENGINEERING DATA
FOR
S082B SPECTROGRAPH

Contract No. N00014-67-C-0470
Contract Modification P00055



This portion of the Mission Engineering Data Book was originated at MSFC from the telemetered data during the Skylab Missions. The shutter open and shutter close times were GMT corrected and superimposed on this data and the exposure time was computed from these times. In addition, all other ATM instruments operating while S082B was recording scientific data are noted. Also included are pointing information and certain selected orbital or ephemeris data. This data is in the form of a computer printout and is recorded on magnetic tape.

The telemetry system was noisy during the mission and often data was missing from the printouts (dropouts). The telemetry noise caused many false exposure data to appear on the telemetry, while the dropouts caused exposure data lines to be missing. Consequently it was necessary to correct these engineering data using several other sources of information through time correlation.

The corrected EDB (MSFC) has been coordinated with data from the diode array, MSFC quick look data (AUTO SCAN), MSFC and JSC console logs, MSFC Data Book Six, and the JSC EDB. The corrected roll information as provided by IBM under contract with MSFC has been incorporated into the computer tabulations.

The initial IBM issue of these reconstructed values was based on 1950 Ephemeris Data. Additional information provided by IBM updated these values to the 1973 Ephemeris Data. These delta corrections have been incorporated into the computer tabulations.

The roll values contained in this book are accurate to within 3 arc minutes of the IBM values.

S082B EDB PRINTOUT INDEX

OPEN	Complete Greenwich Mean-time when shutter was opened (Column A).
CLOSE	Greenwich Mean-time in minutes, seconds, and milliseconds when shutter was closed (Column B).
EXPOSURE TIME	Difference between shutter OPEN and CLOSE time (Column C).
FRAME COUNT	The film strip number as assigned by NRL (Column D).
WVL	Wavelength - Predisperser wavelength position during exposure - 'L' is Long Wavelength; 'S' is Short Wavelength (Column E); 'X' is between positions.
STATE (PRS)	Operating mode of PRS - 'BORE' is Boresight (WL Display), 'LMB SC' is Limb Scan, and 'LMB PT' is Limb Point (Column F).
MODE	Operating Mode of Instrument "AUTO" is Auto Mode; 'AUTO S' is Auto Step Mode; 'FLARE' is Flare Mode; 'MAN' is Manual or Time Mode (Column G).
OP EXP	Operating Experiments - A number in the respective columns indicates the experiment was operating while the shutter was OPEN, 'X' indicates the Instrument, assigned to that column, was not operating. The columns are assigned as follows: Col H is S-052; Col I is S-054; Col J is S-055; Col K contains operating Modes of the S-055 experiments, 'ML' is Line Mirror Mode, 'M3' is 3 Raster Mirror Mode,

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Page 2

OP EXP (Cont)	'MA' is Auto Mirror Mode, 'GA' is Grating Advance Single Step Mode, 'GS' is Grating Scan Mode, 'G3' is 3 Grating Scan Modes, 'GR' is Grating Reference Mode, a void indicates no mode, BT23 indicates mode unknown; Col L is S-056; Col M is S082A; and Col N is H α 1.
TEMP	Temperature of Instrument - Provide quick check of instrument temperatures when shutter is opened (OP-Column O) and closed (CL-Column P). 'OK' will be printed in the 'OP' Column when: 1) the absolute temperature of the instrument and the XUV Monitor are $70 \pm 2.5^{\circ}\text{F}$; 2) the absolute temperature of the slit (top and bottom) and the mirror mount are $73 \pm 5.0^{\circ}\text{F}$; 3) the vertical differential temperatures (lid-base) are $0 \pm 1.3^{\circ}\text{F}$; and 4) the horizontal differential temperatures (side-side) are $0 \pm 2.5^{\circ}\text{F}$. If any of the temperatures are not within the above described limits, an 'X' will be printed in the 'OP' column. If the above measured temperatures vary during the time the shutter OPEN by less than: 1) $\pm 1.0^{\circ}\text{F}$ for all absolute temperatures; 2) $\pm 4.5^{\circ}\text{F}$ for the slit and the Mirror Mount; 3) $\pm 1.0^{\circ}\text{F}$ for the vertical differential temperatures; and 4) $\pm 0.32^{\circ}\text{F}$ for horizontal differential temperatures. 'OK' is printed in the TEMP 'CL' column. If these requirements are not met, 'X' is printed in the TEMP 'CL' column.

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EPC POINT	Experiment Pointing Control - 'GAMRR', 'GAMX' and 'GAMY' Point Positions are printed in the respective columns Q, R and S.
MAX PT. EXC.	Maximum Pointing Excursion - The maximum deviation of the Point Control during the Shutter OPEN period is printed in columns T, U and V.
LIMB-OFF	LIMB OFFSET - The PRS pointing position is printed in column W, and the maximum excursion during the shutter OPEN period is printed in Column X.
NRL BIAS	The alignment bias values for S082B are printed at shutter OPEN and CLOSE.
ANGLE	Beta (Column Y) is the minimum angle (β , Fig. II-1) from sun-earth line to Skylab orbital plane, and 'Z' (Column Z) is the minimum angle (α , Fig. II-2) between Skylab-sun line and nearest forward earth horizon as measured in the vertical plane. Both angles were printed when shutter opened.
ALTITUDE	The altitude (A, Fig. II-2) of the Skylab in kilometers when shutter was opened (Column AA).
Z _m	The distance of the viewing line from earth (Z_M, Fig. II-2) in kilometers when the shutter was opened (Column BB). $Z_M = (6378 + A) \cos Z - 6378$ Where Z is from Column Z and A is from Column AA. NOTE: Z_M is meaningful only for values of Z between 0 and -1290 arc minutes.

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ORBIT NO.	Orbit Number (Column CC).
-----------	---------------------------

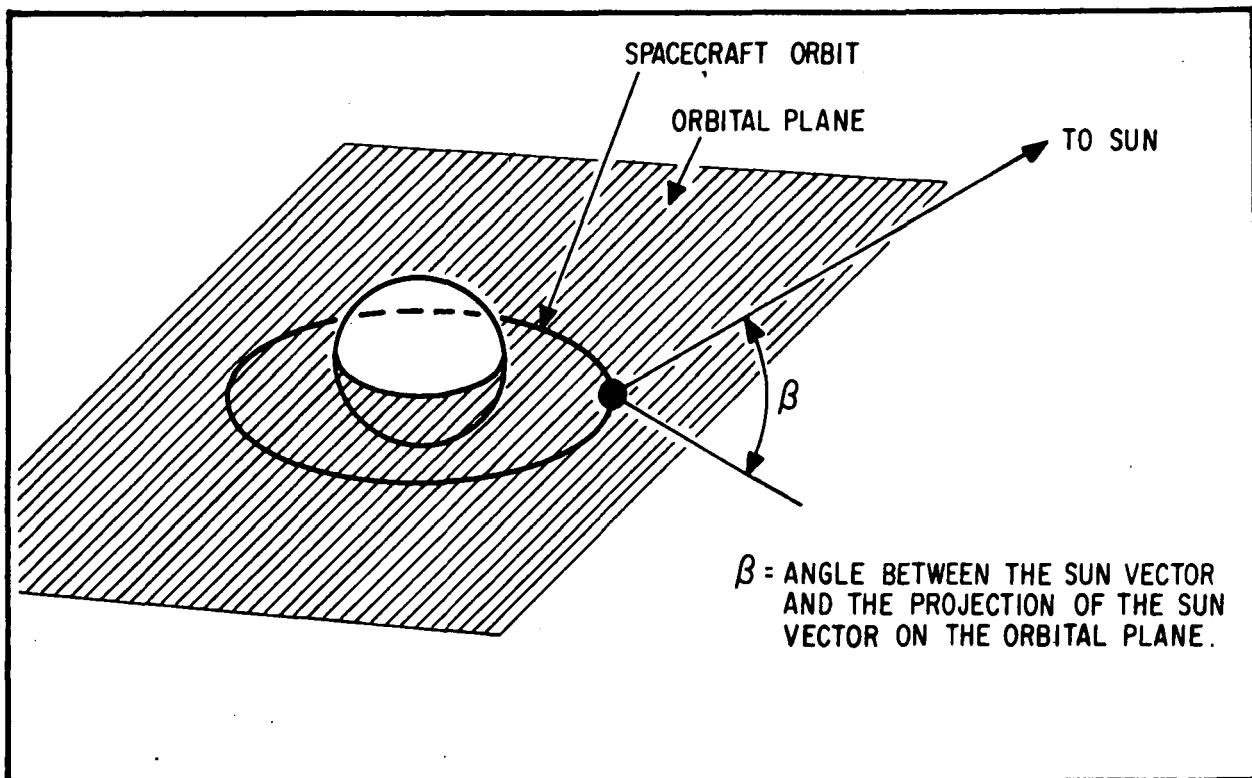


Figure II-1 Beta Angle

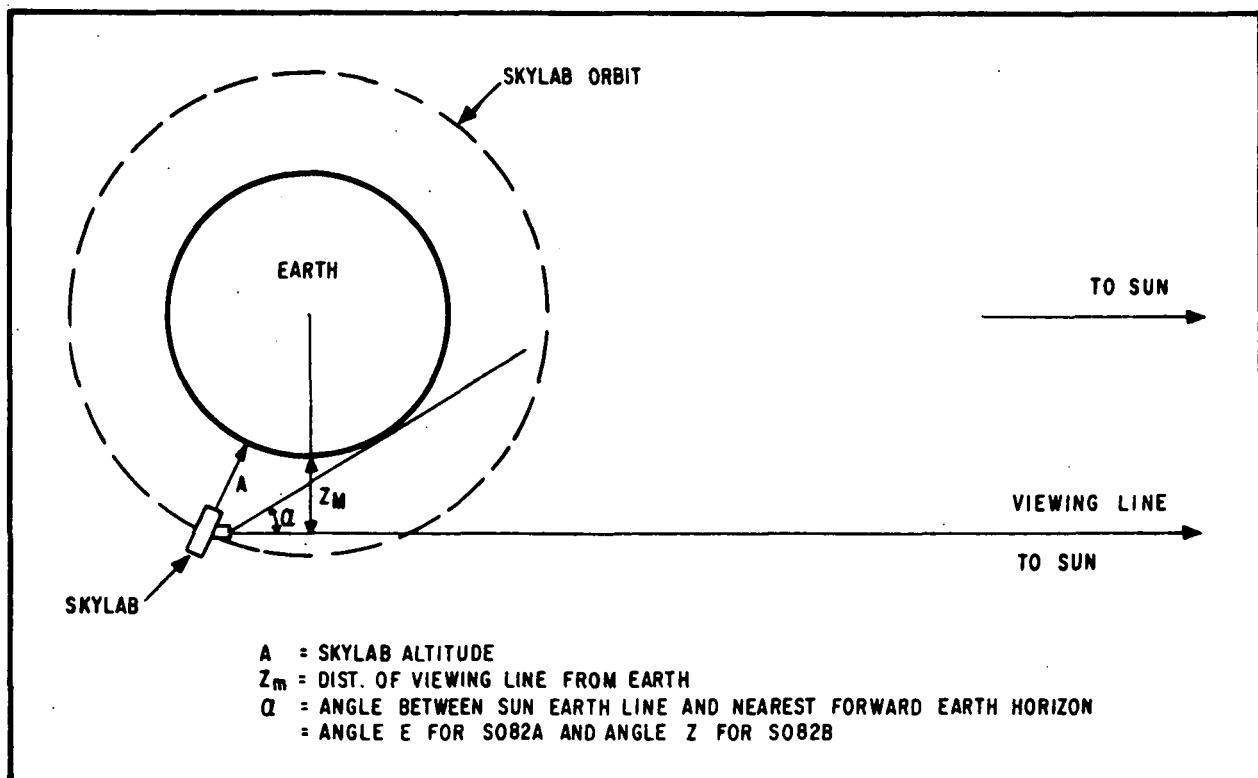


Figure II-2 Extinction Parameters



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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE		----- OP EXP -----								TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G-										OP	CL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	
236:19:29:43:824			28301-1	L		MAN	X	X	5		X	X	X	OK		
	29:45: 74	0: 2:250													OK	
237: 0: 2:47: 8			28301-2	L		AUTO	X	4	5	MA	6	X	H1	OK		
	2:47:508	0: 0:500													OK	
237: 0: 2:49: 8			28301-3	S		AUTO	X	4	5	MA	6	X	H1	OK		
	2:51:758	0: 2:750													OK	
237: 0: 2:53:258			28301-4	L		AUTO	X	4	5	MA	6	X	H1	OK		
	2:54:758	0: 1:500													OK	
237: 0: 2:56:258			28301-5	S		AUTO	X	4	5	MA	6	X	H1	OK		
	3: 6:508	0:10:250													OK	
237: 0: 3: 8:258			28301-6	L		AUTO	X	4	5	GS	6	X	H1	OK		
	3:13:258	0: 5: 0													OK	
237: 0: 3:15: 8			28301-7	S		AUTO	X	4	5	GS	6	X	H1	OK		
	3:55:258	0:40:250													OK	
237: 0: 3:56:758			28301-8	L		AUTO	X	4	5	GS	6	X	H1	OK		
	4:16:758	0:23: 0													OK	
237: 0: 4:20:258			28302-1	S		AUTO	X	4	5	MA	6	X	H1	OK		
	7: 0:508	2:40:250													OK	
237: 0:16:26: 8			28302-2	S		AUTO	X	4	5	MA	6	X	H1	OK		
	16:28:758	0: 2:750													OK	
237: 0:16:30:508			28302-3	L		AUTO	X	4	5	MA	6	X	H1	OK		
	16:31: 8	0: 3:500													OK	
237: 0:16:32:508			28302-4	S		AUTO	X	4	5	MA	6	X	H1	OK		
	16:42:758	0:10:250													OK	
237: 0:16:44:508			28302-5	L		AUTO	X	4	5	MA	6	X	H1	OK		
	16:45:758	0: 1:250													OK	
237: 0:16:47:508			28302-6	S		AUTO	X	4	5	MA	6	X	H1	OK		
	17:27:758	0:40:250													OK	
237: 0:17:29:258			28302-7	L		AUTO	X	4	5	MA	6	X	H1	OK		
	17:34:508	0: 5:250													OK	
237: 0:17:36: 8			28302-8	S		AUTO	X	4	5	MA	6	X	H1	OK		
	20:16:116	2:40:108													OK	
237: 0:20:19:698			28303-1	L		AUTO	X	4	5	MA	6	X	H1	OK		
	20:38:197	0:18:499													OK	
237: 0:23:42:102			28303-2	S		MAN	X	X	5	MA	6	X	H1	OK		
	24:21:100	0:38:998													OK	
237: 0:25:13:681			28303-3	S		MAN	X	X	5	MA	6	X	H1	OK		
	27:53: 93	2:39:412													OK	
237: 0:27:56:509			28303-4	S		MAN	X	X	5	MA	6	X	H1	OK		
	27:56:759	0: 0:250													OK	

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FRAME COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z (M) (KM)	ORBIT NO.							
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXBI	GYBI	-BETA- OPEN	-Z- OPEN					
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)		
28301-1	-10600.00	-680.00	-42.50	.00	.00	.00	.0	.00	25.00	55.00	3481.70	1671.80	430.90	374.60	1475
28301-2	43.00	-873.70	193.70	.00	.00	.00	.0	.00	25.00	55.00	3450.70	1940.00	438.00	296.90	1477
28301-3	43.00	-873.70	193.70	.00	.00	.00	.0	.00	25.00	55.00	3450.70	1940.00	438.00	296.90	1477
28301-4	43.00	-873.70	193.70	.00	.00	.00	.0	.00	25.00	55.00	3450.70	1940.00	438.00	296.90	1477
28301-5	43.00	-873.70	193.70	.00	.00	.00	.0	.00	25.00	55.00	3450.70	1940.00	438.00	296.90	1477
28301-6	43.00	-873.70	193.70	.00	.00	.00	.0	.00	25.00	55.00	3450.70	1933.20	436.90	298.00	1477
28301-7	43.00	-873.70	193.70	.00	.00	.00	.0	.00	25.00	55.00	3450.70	1933.20	436.90	298.00	1477
28301-8	43.00	-873.70	193.70	.00	.00	.00	.0	.00	25.00	55.00	3450.70	1933.20	436.90	298.00	1477
28302-1	43.00	-873.70	193.70	.00	.00	.00	.0	.00	25.00	55.00	3450.70	1916.60	435.80	302.80	1477
28302-2	-5304.00	-715.00	27.50	.00	.00	.00	.0	.00	25.00	55.00	3451.10	1074.00	426.10	419.70	1477
28302-3	-5303.00	-715.00	27.50	.00	.00	.00	.0	.00	25.00	55.00	3451.10	1074.00	426.10	419.70	1477
28302-4	-5323.00	-715.00	27.50	.00	.00	.00	.0	.00	25.00	55.00	3451.10	1074.00	426.10	419.70	1477
28302-5	-5323.00	-715.00	27.50	.00	.00	.00	.0	.00	25.00	55.00	3451.10	1074.00	426.10	419.70	1477
28302-6	-5323.00	-715.00	27.50	.00	.00	.00	.0	.00	25.00	55.00	3451.10	1074.00	426.10	419.70	1477
28302-7	-5323.00	-715.00	27.50	.00	.00	.00	.0	.00	25.00	55.00	3451.10	964.90	426.00	406.80	1477
28302-8	-5323.00	-715.00	27.50	.00	.00	.00	.0	.00	25.00	55.00	3451.10	964.90	426.00	406.80	1477
28303-1	-5321.00	-715.00	27.50	.00	.00	.00	.0	.00	25.00	55.00	3451.10	618.40	426.30	321.20	1477
28303-2	-1002.00	-40.00	545.00	.00	.00	.00	.0	.00	25.00	55.00	3450.50	252.90	427.60	157.30	1477
28303-3	-999.00	43.80	545.00	.00	.00	.00	.0	.00	25.00	55.00	3450.20	4.60	429.00	3.20	1477
28303-4	-998.00	75.00	557.50	.00	.00	.00	.0	.00	25.00	55.00	3449.50	-360.60	431.60	394.20	1477
				.00	.00	.00	.00	.00	25.00	55.00					

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[illegible]

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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	----- (ARCMINS)	MAX PT EXC (ARCSEC)	----- (ARCMINS)	LIMB OFF (ARCSEC)	---	NRL BIAS-- (ARCSEC)	---	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.	
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28303-5	-998.00	43.80	557.50				.0		25.00 55.00	3449.50	-378.90	431.80	390.50	1478
28303-6	-5401.90	26.20	21.20	.00	.00	.00	.0	.00	25.00 55.00	3440.20	877.00	433.80	314.80	1478
28303-7	-5400.90	26.20	21.20	.00	.00	.00	.0	.00	25.00 55.00	3440.50	499.40	428.10	406.50	1478
28303-8	-5394.00	22.50	21.20	.00	.00	.00	.0	.00	25.00 55.00	3362.40	1914.20	431.50	297.20	1485
28304-1	-5393.00	22.50	21.20	.00	.00	.00	.0	.00	26.25 55.00	3362.50	1800.70	429.50	335.20	1485
28304-2	26.00	10.00	556.20	.00	.00	.00	.0	.00	26.25 55.00	3350.80	1762.80	428.80	346.10	1486
28304-3	26.00	16.20	550.20	.00	58.75	.00	.0	.00	26.25 55.00	3350.90	1514.10	426.60	402.40	1486
28304-4	26.00	10.00	556.20	.00	67.50	.00	.0	.00	26.25 55.00	3350.90	1417.80	426.20	415.30	1486
28304-5	1136.00	446.20	321.20	.00	.00	.00	.0	.00	26.25 55.00	3350.90	1097.30	425.50	421.00	1486
28304-6	1136.00	446.20	321.20	.00	.00	.00	.0	.00	26.25 55.00	3350.90	1097.30	425.50	421.00	1486
28304-7	1139.00	-836.20	-73.70	.00	.00	.00	.0	.00	26.25 55.00	3349.50	-68.20	430.20	428.90	1486
28304-8	-5935.00	-545.00	176.20	.00	.00	.00	.0	.00	26.25 55.00	3338.90	2028.80	434.00	252.70	1487
28305-1	-5935.00	-545.00	176.20	.00	.00	.00	.0	.00	26.25 55.00	3338.90	2028.80	434.00	252.70	1487
28305-2	-5935.00	-545.00	176.20	.00	.00	.00	.0	.00	26.25 55.00	3338.90	2028.80	434.00	252.70	1487
28305-3	-5935.00	-545.00	176.20	.00	.00	.00	.0	.00	26.25 55.00	3338.90	2028.80	434.00	252.70	1487
28305-4	-5934.00	-545.00	176.20	.00	.00	.00	.0	.00	26.25 55.00	3338.90	2001.30	432.90	263.20	1487
28305-5	-5934.00	-545.00	176.20	.00	.00	.00	.0	.00	26.25 55.00	3338.90	2001.30	432.90	263.20	1487
28305-6	-5934.00	-545.00	176.20	.00	.00	.00	.0	.00	26.25 55.00	3338.90	2001.30	432.90	263.20	1487
28305-7	-5933.00	-545.00	176.20	.00	.00	.00	.0	.00	26.25 55.00	3338.90	1859.50	429.80	315.20	1487
28305-8	-5933.00	-545.00	176.20	.00	.00	.00	.0	.00	26.25 55.00	3339.00	1794.00	428.90	336.40	1487
				.00	.00	.00		.00	26.25 55.00					

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INSTRUMENT OPERATION
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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----								TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G-										OP	CL
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
237:15:51:47:808	51:50:558	0: 2:750	28306-1	S	BORE	AUTO	X	X	5	MA	6	X	H1	OK	OK
237:15:51:52:308	51:52:558	0: 0:250	28306-2	L	BORE	AUTO	X	X	5	MA	6	X	H1	OK	OK
237:15:51:54:308	52: 4:558	0:10:250	28306-3	S	BORE	AUTO	X	X	5	M3	6	X	H1	OK	OK
237:15:52: 6: 58	52: 7:558	0: 1:500	28306-4	L	BORE	AUTO	X	X	5	ML	6	X	H1	OK	OK
237:15:52: 9: 58	52:49:308	0:40:250	28306-5	S	BORE	AUTO	X	X	5	GS	6	X	H1	OK	OK
237:15:52:51: 58	52:56: 58	0: 5: 0	28306-6	L	BORE	AUTO	X	X	5	GS	6	X	H1	OK	OK
237:15:52:57:808	55:38: 58	2:40:250	28306-7	S	BORE	AUTO	X	X	5	GS	6	X	H1	OK	OK
237:15:55:39:558	55:59:558	0:20: 0	28306-8	L	BORE	AUTO	X	X	5	GS	6	X	H1	OK	OK
237:15:57:11:308	57:11:808	0: 0:500	28307-1	L	BORE	AUTO	X	X	5	G3	6	X	H1	OK	OK
237:15:57:13:558	57:16: 58	0: 2:500	28307-2	S	BORE	AUTO	X	X	5	G3	6	X	H1	OK	OK
237:15:57:17:808	57:19: 58	0: 1:250	28307-3	L	BORE	AUTO	X	X	5	G3	6	X	H1	OK	OK
237:15:57:20:808	57:31: 58	0:10:250	28307-4	S	BORE	AUTO	X	4	5	G3	6	X	H1	OK	OK
237:15:57:32:558	57:37:808	0: 5:250	28307-5	L	BORE	AUTO	X	4	5	G3	6	X	H1	OK	OK
237:15:57:39:308	58:19:558	0:40:250	28307-6	S	BORE	AUTO	X	4	5	G3	6	X	H1	OK	OK
237:15:58:21:308	58:41:308	0:20: 0	28307-7	L	BORE	AUTO	X	4	5	G3	6	X	H1	OK	OK
237:15:58:43: 58	1:23: 58	2:40: 0	28307-8	S	BORE	AUTO	X	4	5	G3	6	X	H1	OK	OK
237:16:55:15: 58	55:17:808	0: 2:750	28308-1	S		AUTO	X	X	5	GS	6	X	H1	OK	OK
237:16:55:19:308	55:19:808	0: 0:500	28308-2	L		AUTO	X	X	5	GS	6	X	H1	OK	OK
237:16:55:21:558	55:31:808	0:10:250	28308-3	S		AUTO	X	4	5	GS	6	X	H1	OK	OK
237:16:55:33:308	55:34:808	0: 1:500	28308-4	L		AUTO	X	4	5	GS	6	X	H1	OK	OK

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INSTRUMENT OPERATION

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FRAME	----- EPC POINT -----	---- MAX PT EXC ----	--- LIMB OFF ---	--NRL BIAS--	ANGLE	ALTITUDE Z(M)	ORBIT
	COUNT (ARCHINS)	(ARCSEC)		(ARCHINS)	(KM)	(KM)	NO.
	GAMR	GAMX	GAMY	GAMR	GAMX	GAMY	
	(D)	(Q)	(R)	(S)	(T)	(U)	(V)
	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)

28306-1	-3828.00	-418.70	-320.00	.00	.00	.00	.00	26.25	55.00	3338.90	903.30	425.60	396.30	1487
28306-2	-3828.00	-418.70	-320.00	.00	.00	.00	.00	26.25	55.00	3338.90	903.30	425.60	396.30	1487
28306-3	-3828.00	-418.70	-320.00	.00	.00	.00	.00	26.25	55.00	3338.90	903.30	425.60	396.30	1487
28306-4	-3828.00	-418.70	-320.00	.00	.00	.00	.00	26.25	55.00	3338.80	781.50	425.90	369.90	1487
28306-5	-3828.00	-418.70	-320.00	.00	.00	.00	.00	26.25	55.00	3338.80	781.50	425.90	369.90	1487
28306-6	-3828.00	-418.70	-320.00	.00	.00	.00	.00	26.25	55.00	3338.80	781.50	425.90	369.90	1487
28306-7	-3828.00	-418.70	-320.00	.00	.00	.00	.00	26.25	55.00	3338.80	781.50	425.90	369.90	1487
28306-8	-3828.00	-418.70	-320.00	.00	.00	.00	.00	26.25	55.00	3338.40	402.40	427.40	233.60	1487
28307-1	-5461.00	-622.50	17.50	.00	.00	.00	.00	26.25	55.00	3338.10	142.60	428.90	93.10	1487
28307-2	-5461.00	-622.50	17.50	.00	.00	.00	.00	26.25	55.00	3338.10	142.60	428.90	93.10	1487
28307-3	-5461.00	-622.50	17.50	.00	.00	.00	.00	26.25	55.00	3338.10	142.60	428.90	93.10	1487
28307-4	-5461.00	-622.50	17.50	.00	.00	.00	.00	26.25	55.00	3338.10	142.60	428.90	93.10	1487
28307-5	-5461.00	-622.50	17.50	.00	.00	.00	.00	26.25	55.00	3338.10	142.60	428.90	93.10	1487
28307-6	-5460.00	-622.50	17.50	.00	.00	.00	.00	26.25	55.00	3338.10	142.60	428.90	93.10	1487
28307-7	-5460.00	-622.50	17.50	.00	.00	.00	.00	26.25	55.00	3337.80	-33.80	430.10	429.70	1487
28307-8	-5460.00	-622.50	17.50	.00	.00	.00	.00	26.25	55.00	3337.70	-83.90	430.40	428.40	1487
28308-1	-605.00	543.70	72.50	.00	.00	.00	.00	26.25	55.00	3329.10	1259.40	446.10	446.10	1487
28308-2	-605.00	543.70	72.50	.00	.00	.00	.00	26.25	55.00	3329.10	1259.40	446.10	446.10	1487
28308-3	-605.00	543.70	72.50	.00	.00	.00	.00	26.25	55.00	3329.10	1259.40	446.10	446.10	1487
28308-4	-605.00	543.70	72.50	.00	.00	.00	.00	26.25	55.00	3329.10	1259.40	446.10	446.10	1487

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FRAME	----- EPC POINT -----			---- MAX PT EXC ----			LIMB OFF		--NRL BIAS--		ANGLE		ALTITUDE		ORBIT
COUNT	(ARCMINS)	(ARCSEC)		(ARCMINS)	(ARCSEC)				(ARCSEC)		(ARCMINS)		(KM)	(KM)	
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY			GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)			(Y)	(Z)	(AA)	(BB)	(CC)
28308-5	-605.00	543.70	72.50				.0		26.25	55.00	3329.10	1259.40	446.10	446.10	1487
28308-6	-604.00	543.70	72.50	.00	.00	.00	.0	.00	26.25	55.00	3328.80	1364.90	445.90	442.10	1487
28308-7	-604.00	543.70	72.50	.00	.00	.00	.0	.00	26.25	55.00	3328.80	1364.90	445.90	442.10	1487
28308-8	-604.00	543.70	72.50	.00	.00	.00	.0	.00	26.25	55.00	3328.10	1647.80	444.80	398.70	1487
28309-1	-602.00	510.00	72.50	.00	.00	.00	.0	.00	26.25	55.00	3327.10	2011.40	439.80	269.60	1488
28309-2	-602.00	510.00	72.50	.00	.00	.00	.0	.00	26.25	55.00	3327.10	2011.40	439.80	269.60	1488
28309-3	-602.00	510.00	72.50	.00	.00	.00	.0	.00	26.25	55.00	3327.10	2011.40	439.80	269.60	1488
28309-4	-602.00	510.00	72.50	.00	.00	.00	.0	.00	26.25	55.00	3327.00	2039.60	438.80	255.30	1488
28309-5	-602.00	510.00	72.50	.00	.00	.00	.0	.00	26.25	55.00	3327.00	2039.60	438.80	255.30	1488
28309-6	-602.00	510.00	72.50	.00	.00	.00	.0	.00	26.25	55.00	3327.00	2039.60	438.80	255.30	1488
28309-7	-601.00	510.00	72.50	.00	.00	.00	.0	.00	26.25	55.00	3327.00	2057.30	437.60	245.30	1488
28309-8	-601.00	510.00	72.50	.00	.00	.00	.0	.00	26.25	55.00	3327.00	2057.30	437.60	245.30	1488
28310-1	-1398.00	521.20	33.70	.00	.00	.00	.0	.00	26.25	55.00	3327.10	1752.80	428.10	348.30	1488
28310-2	-1398.00	521.20	33.70	.00	.00	.00	.0	.00	26.25	55.00	3327.10	1752.80	428.10	348.30	1488
28310-3	-1398.00	521.20	33.70	.00	.00	.00	.0	.00	26.25	55.00	3327.10	1752.80	428.10	348.30	1488
28310-4	-1398.00	521.20	33.70	.00	.00	.00	.0	.00	26.25	55.00	3327.10	1752.80	428.10	348.30	1488
28310-5	-1398.00	521.20	33.70	.00	.00	.00	.0	.00	26.25	55.00	3327.10	1752.80	428.10	348.30	1488
28310-6	-1398.00	521.20	33.70	.00	.00	.00	.0	.00	26.25	55.00	3327.10	1673.00	427.40	369.60	1488
28310-7	-1398.00	521.20	33.70	.00	.00	.00	.0	.00	26.25	55.00	3327.10	1673.00	427.40	369.60	1488
28310-8	-1398.00	521.20	33.70	.00	.00	.00	.0	.00	26.25	55.00	3327.10	1392.30	425.90	417.60	1488
				.00	.00	.00		.00	26.25	55.00					

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FRAME	----- EPC POINT -----		---- MAX PT EXC ----				LIMB OFF		--NRL BIAS--		ANGLE		ALTITUDE Z(M)		ORBIT
COUNT	(ARCMINS)	(ARCSEC)	(ARCMINS)	(ARCSEC)	(ARCMINS)	(ARCSEC)	(W)	(X)	(ARCSEC)	(ARCSEC)	(ARCMINS)	(ARCSEC)	(KM)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY			GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)			(Y)	(Z)	(AA)	(BB)	(CC)
28311-1	196.00	-821.20	156.30				.0		26.25	55.00	3318.50	734.50	445.60	369.20	1488
28311-2	197.00	-821.20	156.30	.00	.00	.00	.0	.00	26.25	55.00	3317.60	1087.60	446.20	438.60	1488
28311-3	-6746.00	-318.70	-718.80	.00	.00	.00	.0	.00	26.25	55.00	3314.50	605.70	426.60	316.90	1489
28311-4	-6746.00	-318.70	-718.80	.00	.00	.00	.0	.00	26.25	55.00	3314.50	596.60	426.60	313.70	1489
28311-5	-6746.00	-318.70	-718.80	.00	.00	.00	.0	.00	26.25	55.00	3314.50	591.80	426.60	311.90	1489
28311-6	-6746.00	-318.70	-718.80	.00	.00	.00	.0	.00	26.25	55.00	3314.50	566.60	426.60	302.60	1489
28311-7	-6746.00	-318.70	-718.80	.00	.00	.00	.0	.00	26.25	55.00	3314.50	560.20	426.60	300.20	1489
28311-8	-6745.00	-318.70	-718.80	.00	.00	.00	.0	.00	26.25	55.00	3314.40	470.50	427.10	264.10	1489
28312-1	-6745.00	-318.70	-718.80	.00	.00	.00	.0	.00	26.25	55.00	3314.40	451.60	427.10	255.90	1489
28312-2	-6744.00	-318.70	-718.80	.00	.00	.00	.0	.00	26.25	55.00	3314.00	98.10	428.60	65.20	1489
28312-3	-2934.00	683.70	-153.70	.00	.00	.00	.0	.00	26.25	55.00	3306.50	519.70	445.20	292.40	1489
28312-4	-2934.00	683.70	-153.70	.00	.00	.00	.0	.00	26.25	55.00	3306.50	523.90	445.20	294.10	1489
28312-5	-2934.00	683.70	-153.70	.00	.00	.00	.0	.00	26.25	55.00	3306.50	533.50	445.20	298.10	1489
28312-6	-2934.00	683.70	-153.70	.00	.00	.00	.0	.00	26.25	55.00	3306.50	539.90	445.20	300.70	1489
28312-7	-2934.00	683.70	-153.70	.00	.00	.00	.0	.00	26.25	55.00	3306.50	565.10	445.20	310.70	1489
28312-8	-2934.00	683.70	-153.70	.00	.00	.00	.0	.00	26.25	55.00	3306.50	580.00	445.20	316.50	1489
28313-1	-2934.00	683.70	-153.70	.00	.00	.00	.0	.00	26.25	55.00	3306.30	671.90	445.60	349.60	1489
28313-2	-2933.00	683.70	-153.70	.00	.00	.00	.0	.00	26.25	55.00	3306.30	717.70	445.60	364.20	1489
28313-3	-2932.00	683.70	-153.70	.00	.00	.00	.0	.00	26.25	55.00	3305.10	1093.90	446.30	439.20	1489
28313-4	-2930.00	583.70	-153.70	.00	.00	.00	.0	.00	26.25	55.00	3303.20	1851.80	443.00	337.30	1489
				.00	.00	.00	.00	.00	26.25	55.00					

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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	----- (ARCMINS)	MAX PT EXC (ARCSEC)	----- (ARCMINS)	LIMB OFF (ARCSEC)	---HRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GXB1	-BETA- OPEN	-Z- OPEN	
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA) (BB) (CC)
28313-5	-2930.00	583.70	-153.70				.0		26.25 55.00	3303.20	1851.80 443.00 337.30 1489
28313-6	-2930.00	583.70	-153.70	.00	.00	.00	.0	.00	26.25 55.00	3303.00	1914.90 442.20 313.00 1489
28313-7	-2930.00	583.70	-153.70	.00	.00	.00	.0	.00	26.25 55.00	3303.00	1914.90 442.20 313.00 1489
28313-8	-2930.00	583.70	-153.70	.00	.00	.00	.0	.00	26.25 55.00	3303.00	1914.90 442.20 313.00 1489
28314-1	-2930.00	583.70	-153.70	.00	.00	.00	.0	.00	26.25 55.00	3302.90	1969.00 441.20 289.90 1489
28314-2	-2930.00	583.70	-153.70	.00	.00	.00	.0	.00	26.25 55.00	3302.90	1969.00 441.20 289.90 1489
28314-3	-2929.00	583.70	-153.70	.00	.00	.00	.0	.00	26.25 55.00	3302.70	2048.10 439.20 252.10 1489
28314-4	-2928.00	683.70	66.20	.00	.00	.00	.0	.00	26.25 55.00	3302.50	1993.20 431.40 264.40 1490
28314-5	-2928.00	683.70	66.20	.00	.00	.00	.0	.00	26.25 55.00	3302.50	1993.20 431.40 264.40 1490
28314-6	-2928.00	683.70	66.20	.00	.00	.00	.0	.00	26.25 55.00	3302.50	1993.20 431.40 264.40 1490
28314-7	-2928.00	683.70	66.20	.00	.00	.00	.0	.00	26.25 55.00	3302.50	1993.20 431.40 264.40 1490
28314-8	-2928.00	683.70	66.20	.00	.00	.00	.0	.00	26.25 55.00	3302.50	1943.60 430.40 283.80 1490
28315-1	-2927.00	683.70	66.20	.00	.00	.00	.0	.00	26.25 55.00	3302.50	1943.60 430.40 283.80 1490
28315-2	-2927.00	683.70	66.20	.00	.00	.00	.0	.00	26.25 55.00	3302.50	1943.60 430.40 283.80 1490
28315-3	-2927.00	683.70	66.20	.00	.00	.00	.0	.00	26.25 55.00	3302.60	1884.60 429.50 305.50 1490
28315-4	-2927.00	683.70	66.20	.00	.00	.00	.0	.00	26.25 55.00	3302.60	1656.50 427.20 373.50 1490
28315-5	-2924.00	833.70	-151.20	.00	.00	.00	.0	.00	26.25 55.00	3301.90	327.50 427.90 197.00 1490
28315-6	-2924.00	833.70	-151.20	.00	.00	.00	.0	.00	26.25 55.00	3301.90	318.20 427.90 192.20 1490
28315-7	-2924.00	833.70	-151.20	.00	.00	.00	.0	.00	26.25 55.00	3301.90	313.30 427.90 189.70 1490
28315-8	-2924.00	833.70	-151.20	.00	.00	.00	.0	.00	26.25 55.00	3301.90	287.50 427.90 176.10 1490
				.00	.00	.00		.00	26.25 55.00		

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FRAME COUNT	----- EPC (ARCHINS)	POINT (ARCSEC)	----- (ARCHINS)	MAX PT EXC (ARCSEC)	----- (ARCHINS)	LIMB OFF (X)	---NRL BIAS--- (ARCSEC)	ANGLE (ARCHINS)	ALTITUDE (KM)	Z (M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN	
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA) (BB) (CC)
28316-1	-2924.00	833.70	-151.20				.0		26.25 55.00	3301.90	276.50 427.90 170.20 1490
28316-2	-2924.00	833.70	-151.20	.00	.00	.80	.0	.00	26.25 55.00	3301.70	184.50 428.70 118.40 1490
28316-3	-2924.00	833.70	-151.20	.00	.00	.80	.0	.00	26.25 55.00	3301.70	169.60 428.70 109.50 1490
28316-4	-2924.00	833.70	-151.20	.00	.00	.00	.0	.00	26.25 55.00	3301.00	-187.10 431.30 421.20 1490
28316-5	42.00	-795.00	197.50	.00	.00	.80	.0	.00	26.25 55.00	3290.10	2078.70 438.30 236.30 1490
28316-6	42.00	-795.00	197.50	.00	.00	.80	.0	.00	26.25 55.00	3290.10	2078.70 438.30 236.30 1490
28316-7	42.00	-795.00	197.50	.00	.00	.00	.0	.00	26.25 55.00	3290.10	2078.70 438.30 236.30 1490
28316-8	42.00	-795.00	197.50	.00	.00	.00	.0	.00	26.25 55.00	3290.10	2078.70 438.30 236.30 1490
28317-1	42.00	-795.00	197.50	.00	.00	.80	.0	.00	26.25 55.00	3290.10	2078.70 438.30 236.30 1490
28317-2	42.00	-795.00	197.50	.00	.00	.80	.0	.00	26.25 55.00	3290.10	2078.70 438.30 236.30 1490
28317-3	42.00	-795.00	197.50	.00	.00	.00	.0	.00	26.25 55.00	3290.10	2095.70 437.20 226.30 1490
28317-4	42.00	-795.00	197.50	.00	.00	.00	.0	.00	26.25 55.00	3290.10	2095.70 437.20 226.30 1490
28317-5	43.00	-803.70	198.70	.00	.00	.00	.0	.00	26.25 55.00	3290.00	2054.70 432.70 238.60 1490
28317-6	43.00	-803.70	198.70	.00	.00	.00	.0	.00	26.25 55.00	3290.00	2054.70 432.70 238.60 1490
28317-7	43.00	-806.20	200.00	.00	.00	.80	.0	.00	26.25 55.00	3290.00	2054.70 432.70 238.60 1490
28317-8	43.00	-806.20	200.00	.00	.00	.80	.0	.00	26.25 55.00	3290.00	2054.70 432.70 238.60 1490
28318-1	43.00	-806.20	200.00	.00	.00	.80	.0	.00	26.25 55.00	3290.00	2054.70 432.70 238.60 1490
28318-2	43.00	-806.20	200.00	.00	.00	.80	.0	.00	26.25 55.00	3290.00	2017.80 431.60 253.80 1490
28318-3	43.00	-806.20	200.00	.00	.00	.00	.0	.00	26.25 55.00	3290.00	2017.80 431.60 253.80 1490
28318-4	43.00	-806.20	200.00	.00	.00	.80	.0	.00	26.25 55.00	3290.10	1848.20 428.70 317.80 1490

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----								TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G2										OP	CL
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
237:22:55:58: 57	55:58:557	0: 0:500	28318-5	L		AUTO	X	X	5		6	X	H1	OK	OK
237:22:56: 0:306	56: 2:806	0: 2:500	28318-6	S		AUTO	X	X	5		6	X	H1	OK	OK
237:22:56: 4:556	56: 5:806	0: 1:250	28318-7	L		AUTO	X	X	5	MA	6	X	H1	OK	OK
237:22:56: 7:556	56:17:806	0:10:250	28318-8	S		AUTO	X	X	5	MA	6	X	H1	OK	OK
237:22:56:21:305	56:26:305	0: 5: 0	28319-1	L		AUTO	X	X	5	MA	6	X	H1	OK	OK
237:22:56:28: 55	57: 8: 52	0:39:997	28319-2	S		AUTO	X	4	5	MA	6	X	H1	OK	OK
237:22:57: 9:802	57:29:801	0:19:999	28319-3	L		AUTO	X	4	5	MA	6	X	H1	OK	OK
237:22:57:31:551	0:11:543	2:39:992	28319-4	S		AUTO	X	4	5	MA	6	X	H1	OK	OK
238: 1: 4:21:199	4:22:199	0: 1: 0	28319-5	S		AUTO	2	4	5	MA	6	X	H1	OK	OK
238: 1:14:48: 94	14:50:760	0: 2:666	28319-6	S		AUTO	X	X	5	GA	6	X	H1	OK	OK
238: 1:14:52:427	14:52:844	0: 0:417	28319-7	L		AUTO	X	X	5	GA	6	X	H1	OK	OK
238: 1:14:54:510	15: 4:676	0:10:166	28319-8	S		AUTO	X	4	5	GA	6	X	H1	OK	OK
238: 1:15: 8:176	15: 9:592	0: 1:416	28320-1	L		AUTO	X	4	5	GS	6	X	H1	OK	OK
238: 1:15:11:259	15:51:423	0:40:164	28320-2	S		AUTO	X	4	5	GA	6	X	H1	OK	OK
238: 1:15:53: 89	15:58:173	0: 5: 84	28320-3	L		AUTO	X	4	5	MA	6	X	H1	OK	OK
238: 1:15:59:840	18:39:913	2:40: 73	28320-4	S		AUTO	X	4	5	MA	6	A	H1	OK	OK
238: 1:18:41:580	19: 1:662	0:20: 82	28320-5	L		AUTO	X	X	5	MA	6	A	H1	OK	OK
238:13:23:16:558	24:16:308	0:59:750	28320-6	S	BORE	MAN	2	4	5	G3	6	X	H1	OK	OK
238:13:37:22: 58	42:21:308	4:59:250	28320-7	S	BORE	MAN	2	4	5	MA	6	X	H1	OK	OK
238:14:37:44:608	37:47:358	0: 2:750	28320-8	S		AUTO	X	X	5		6	X	H1	OK	OK

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FRAME	----- EPG POINT -----	----- MAX PT EXC -----	LIMB OFF	---NRL BIAS---	ANGLE	ALTITUDE	Z(M)	ORBIT
COUNT (ARCMINS)	(ARCSEC)	(ARCMINS) (ARCSEC)		(ARCSEC)	(ARCMINS)	(KM)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28318-5	44.00	-805.00	205.00				.0	26.25 55.00
28318-6	44.00	-805.00	205.00	.00	.00	.00	.0	26.25 55.00
28318-7	44.00	-805.00	205.00	.00	.00	.00	.0	26.25 55.00
28318-8	44.00	-805.00	205.00	.00	.00	.00	.0	26.25 55.00
28319-1	44.00	-805.00	205.00	.00	.00	.00	.0	26.25 55.00
28319-2	44.00	-805.00	205.00	.00	.00	.00	.0	26.25 55.00
28319-3	44.00	-805.00	205.00	.00	.00	.00	.0	26.25 55.00
28319-4	44.00	-805.00	205.00	.00	.00	.00	.0	26.25 55.00
28319-5	-5445.00	25.00	22.50	.00	.00	.00	.0	26.25 55.00
28319-6	-43.00	223.70	-781.30	.00	.00	.00	.0	26.25 55.00
28319-7	-43.00	223.70	-781.30	.00	.00	.00	.0	26.25 55.00
28319-8	-43.00	223.70	-781.30	.00	.00	.00	.0	26.25 55.00
28320-1	-43.00	223.70	-781.30	.00	.00	.00	.0	26.25 55.00
28320-2	-43.00	223.70	-781.30	.00	.00	.00	.0	26.25 55.00
28320-3	-42.00	223.70	-781.30	.00	.00	.00	.0	26.25 55.00
28320-4	-42.00	223.70	-781.30	.00	.00	.00	.0	26.25 55.00
28320-5	-41.00	223.70	-781.30	.00	.00	.00	.0	26.25 55.00
28320-6	-3939.00	23.70	22.50	.00	.00	.00	.0	26.25 55.00
28320-7	-3956.00	23.70	22.50	.00	.00	.00	.0	26.25 55.00
28320-8	4467.00	56.30	745.00	.00	.00	.00	.0	26.25 55.00

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FRAME	----- EPE POINT -----			---- MAX PT EXC ----			LIMB OFF	--NRL BIAS--		ANGLE		ALTITUDE	Z(M)	ORBIT
COUNT	(ARCMINS)	(ARCSEC)		(ARCMINS)	(ARCSEC)			(ARCSEC)		(ARCMINS)		(KM)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28321-1	4467.00	56.30	745.00				.0	26.25	55.00	3148.80	852.60	446.70	401.00	1500
28321-2	4467.00	56.30	745.00	.00	.00	.80	.0	26.25	55.00	3148.80	852.60	446.70	401.00	1500
28321-3	4467.00	56.30	745.00	.00	.00	.00	.0	26.25	55.00	3148.50	983.40	446.70	426.10	1500
28321-4	4467.00	56.30	745.00	.00	.00	.80	.0	26.25	55.00	3148.50	983.40	446.70	426.10	1500
28321-5	4467.00	56.30	745.00	.00	.00	.80	.0	26.25	55.00	3148.50	983.40	446.70	426.10	1500
28321-6	4467.00	56.30	745.00	.00	.00	.80	.0	26.25	55.00	3148.50	983.40	446.70	426.10	1500
28321-7	4467.00	56.30	745.00	.00	.00	.80	.0	26.25	55.00	3147.60	1355.10	446.10	442.90	1501
28321-8	3055.00	343.80	660.00	.00	.00	.80	.0	26.25	55.00	3146.60	1781.10	443.90	361.70	1501
28322-1	3055.00	343.80	660.00	.00	.00	.80	.0	26.25	55.00	3146.60	1781.10	443.90	361.70	1501
28322-2	3055.00	343.80	660.00	.00	.00	.80	.0	26.25	55.00	3146.60	1781.10	443.90	361.70	1501
28322-3	3055.00	343.80	660.00	.00	.00	.80	.0	26.25	55.00	3146.60	1781.10	443.90	361.70	1501
28322-4	3055.00	343.80	660.00	.00	.00	.80	.0	26.25	55.00	3146.40	1871.00	443.10	330.70	1501
28322-5	3055.00	343.80	660.00	.00	.00	.80	.0	26.25	55.00	3146.40	1871.00	443.10	330.70	1501
28322-6	3055.00	343.80	660.00	.00	.00	.80	.0	26.25	55.00	3146.40	1871.00	443.10	330.70	1501
28322-7	3055.00	343.80	660.00	.00	.00	.80	.0	26.25	55.00	3146.20	1952.80	442.20	298.00	1501
28322-8	510.00	602.50	268.70	.00	.00	.80	.0	26.25	55.00	3145.50	2246.80	434.40	141.10	1501
28323-1	510.00	602.50	268.70	.00	.00	.80	.0	26.25	55.00	3145.50	2246.80	434.40	141.10	1501
28323-2	510.00	602.50	268.70	.00	.00	.80	.0	26.25	55.00	3145.50	2246.80	434.40	141.10	1501
28323-3	510.00	602.50	268.70	.00	.00	.80	.0	26.25	55.00	3145.50	2246.80	434.40	141.10	1501
28323-4	510.00	602.50	268.70	.00	.00	.80	.0	26.25	55.00	3145.50	2246.80	434.40	141.10	1501
				.00	.00	.00	.00	26.25	55.00					

SHUTTER			FRAME COUNT	-WVL-	STATE MODE (PRS)	OP EXP									TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G-										OP	CL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	
238:14:55:6:858			28323-5	L		AUTO	X	4	5	GS	6	X	H1	OK		
	55:12:108	0: 5:250													OK	
238:14:55:13:858			28323-6	S		AUTO	X	4	5	GS	6	X	H1	OK		
	57:53:907	2:40: 49													OK	
238:14:57:55:574			28323-7	L		AUTO	X	4	5	GS	6	X	H1	OK		
	58:15:573	0:19:999													OK	
238:15:11:40:858			28323-8	S		MAN	X	X	5	GS	6	X	H1	OK		
	14:19:858	2:39: 0													OK	
238:16:22:12:252			28324-1	S	BORE	AUTO	X	4	5		6	X	H1	OK		
	22:14:919	0: 2:667													OK	
238:16:22:16:586			28324-2	L	BORE	AUTO	X	4	5		6	X	H1	OK		
	22:17: 86	0: 0:500													OK	
238:16:22:18:752			28324-3	S	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	22:28:918	0:10:166													OK	
238:16:22:30:585			28324-4	L	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	22:32: 1	0: 1:416													OK	
238:16:22:33:668			28324-5	S	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	23:13:833	0:40:165													OK	
238:16:23:15:500			28324-6	L	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	23:20:582	0: 5: 82													OK	
238:16:23:22:249			28324-7	S	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	26: 2:328	2:40: 79													OK	
238:16:26: 4:161			28324-8	L	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	26:24:244	0:20: 83													OK	
238:16:48:26:108			28325-1	L	BORE	AUTO	X	4	5	ML	6	X	H1	OK		
	48:26:358	0: 0:250													OK	
238:16:48:28:108			28325-2	S	BORE	AUTO	X	4	5	ML	6	X	H1	OK		
	48:30:858	0: 2:750													OK	
238:16:48:32:358			28325-3	L	BORE	AUTO	X	4	5	ML	6	X	H1	OK		
	48:33:858	0: 1:500													OK	
238:16:48:35:608			28325-4	S	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	48:45:608	0:10: 0													OK	
238:16:48:47:358			28325-5	L	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	48:52:358	0: 5: 0													OK	
238:16:48:54:108			28325-6	S	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	49:34:358	0:40:250													OK	
238:16:49:35:858			28325-7	L	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	49:56:108	0:20:25														

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FRAME COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28323-5	510.00	602.50	268.70				.0	
28323-6	510.00	602.50	268.70	.00	.00	.00	.0	
28323-7	510.00	602.50	268.70	.00	.00	.00	.0	
28323-8	11.00	700.00	195.00	.00	.00	.00	.0	
28324-1	1.00	-608.70	196.20	.00	.00	.00	.0	
28324-2	1.00	-608.70	196.20	.00	.00	.00	.0	
28324-3	1.00	-608.70	196.20	.00	.00	.00	.0	
28324-4	1.00	-608.70	196.20	.00	.00	.00	.0	
28324-5	1.00	-608.70	196.20	.00	.00	.00	.0	
28324-6	1.00	-608.70	196.20	.00	.00	.00	.0	
28324-7	1.00	-608.70	196.20	.00	.00	.00	.0	
28324-8	1.00	-608.70	196.20	.00	.00	.00	.0	
28325-1	10.00	-612.50	196.20	.00	.00	.00	.0	
28325-2	10.00	-612.50	196.20	.00	.00	.00	.0	
28325-3	10.00	-612.50	196.20	.00	.00	.00	.0	
28325-4	10.00	-612.50	196.20	.00	.00	.00	.0	
28325-5	10.00	-612.50	196.20	.00	.00	.00	.0	
28325-6	10.00	-612.50	196.20	.00	.00	.00	.0	
28325-7	10.00	-612.50	196.20	.00	.00	.00	.0	
28325-8	10.00	-612.50	196.20	.00	.00	.00	.0	

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- UP EXP -----								TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G ²										OP	CL
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
238:17:49:42:608	49:45:358	0: 2:750	28326-1	S		AUTO	X	4	5		6	X	H1	OK	OK
238:17:49:46:858	49:47:358	0: 0:500	28326-2	L		AUTO	X	4	5	GS	6	X	H1	OK	OK
238:17:49:49:108	49:59:108	0:10: 0	28326-3	S		AUTO	X	4	5	GS	6	X	H1	OK	OK
238:17:50: 0:858	50: 2:358	0: 1:500	28326-4	L		AUTO	X	4	5	GS	6	X	H1	OK	OK
238:17:50: 3:858	50:44:108	0:40:250	28326-5	S		AUTO	X	4	5	GS	6	X	H1	OK	OK
238:17:50:45:608	50:50:856	0: 5:250	28326-6	L		AUTO	X	4	5	GS	6	X	H1	OK	OK
238:17:50:52:608	53:32:608	2:40: 0	28326-7	S		AUTO	X	4	5	GS	6	X	H1	OK	OK
238:17:53:34:358	53:54:358	0:20: 0	28326-8	L		AUTO	X	4	5	GS	6	X	H1	OK	OK
238:17:57:35: 72	57:35:572	0: 0:500	28327-1	L		AUTO	X	X	5	GS	6	X	H1	OK	OK
238:17:57:37:239	57:39:905	0: 2:666	28327-2	S		AUTO	X	X	5	GS	6	X	H1	OK	OK
238:17:57:41:572	57:42:989	0: 1:417	28327-3	L		AUTO	X	X	5	GS	6	X	H1	OK	OK
238:17:57:44:655	57:54:821	0:10:166	28327-4	S		AUTO	X	X	5	GS	6	X	H1	OK	OK
238:17:57:56:488	58: 1:570	0: 5: 82	28327-5	L		AUTO	X	4	5	GS	6	X	H1	OK	OK
238:17:58: 3:237	58:43:401	0:40:164	28327-6	S		AUTO	X	4	5	GS	6	X	H1	OK	OK
238:17:58:45: 68	59: 5: 67	0:19:999	28327-7	L		AUTO	X	4	5	GS	6	X	H1	OK	OK
238:17:59: 6:734	1:46:811	2:40: 77	28327-8	S		AUTO	X	4	5	GS	6	X	H1	OK	OK
238:18: 8:40:608	8:43:358	0: 2:750	28328-1	S		AUTO	X	X	5	GS	6	X	H1	OK	OK
238:18: 8:44:858	8:45:358	0: 0:500	28328-2	L		AUTO	X	X	5	GS	6	X	H1	OK	OK
238:18: 8:47:108	8:57:358	0:10:250	28328-3	S		AUTO	X	X	5	GS	6	X	H1	OK	OK
238:18: 8:58:858	9: 0:358	0: 1:500	28328-4	L		AUTO	X	X	5		6	X	H1	OK	OK

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FRAHE COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.					
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)
28326-1	-3566.00	-266.20	-538.70				.0		26.25 55.00	3119.50 1536.90	445.40	421.50	1502
28326-2	-3566.00	-266.20	-538.70	.00	.00	.00	.0	.00	26.25 55.00	3119.50 1536.90	445.40	421.50	1502
28326-3	-3566.00	-266.20	-538.70	.00	.00	.00	.0	.00	26.25 55.00	3119.50 1536.90	445.40	421.50	1502
28326-4	-3566.00	-266.20	-538.70	.00	.00	.80	.0	.00	26.25 55.00	3119.30 1645.60	444.80	399.30	1502
28326-5	-3566.00	-266.20	-538.70	.00	.00	.90	.0	.00	26.25 55.00	3119.30 1645.60	444.80	399.30	1502
28326-6	-3566.00	-266.20	-538.70	.00	.00	.80	.0	.00	26.25 55.00	3119.30 1645.60	444.80	399.30	1502
28326-7	-3566.00	-266.20	-538.70	.00	.00	.80	.0	.00	26.25 55.00	3119.30 1645.60	444.80	399.30	1502
28326-8	-3566.00	-266.20	-538.70	.00	.00	.00	.0	.00	26.25 55.00	3118.60 1930.90	442.50	307.20	1502
28327-1	-5562.00	-582.50	-145.00	.00	.00	.80	.0	.00	26.25 55.00	3118.00 2190.20	438.30	179.30	1503
28327-2	-5562.00	-582.50	-145.00	.00	.00	.80	.0	.00	26.25 55.00	3118.00 2190.20	438.30	179.30	1503
28327-3	-5562.00	-582.50	-145.00	.00	.00	.80	.0	.00	26.25 55.00	3118.00 2190.20	438.30	179.30	1503
28327-4	-5562.00	-582.50	-145.00	.00	.00	.00	.0	.00	26.25 55.00	3118.00 2190.20	438.30	179.30	1503
28327-5	-5562.00	-582.50	-145.00	.00	.00	.80	.0	.00	26.25 55.00	3118.00 2190.20	438.30	179.30	1503
28327-6	-5562.00	-582.50	-145.00	.00	.00	.80	.0	.00	26.25 55.00	3118.00 2228.90	437.10	156.00	1503
28327-7	-5562.00	-582.50	-145.00	.00	.00	.00	.0	.00	26.25 55.00	3118.00 2228.90	437.10	156.00	1503
28327-8	-5562.00	-582.50	-145.00	.00	.00	.80	.0	.00	26.25 55.00	3117.90 2256.00	436.00	138.40	1503
28328-1	-5558.00	-26.20	586.20	.00	.00	.00	.0	.00	26.25 55.00	3117.80 1970.60	426.80	267.00	1503
28328-2	-5558.00	-26.20	586.20	.00	.00	.80	.0	.00	26.25 55.00	3117.80 1970.60	426.80	267.00	1503
28328-3	-5558.00	-26.20	586.20	.00	.00	.80	.0	.00	26.25 55.00	3117.80 1970.60	426.80	267.00	1503
28328-4	-5558.00	-26.20	586.20	.99	.00	.00	.0	.00	26.25 55.00	3117.80 1970.60	426.80	267.00	1503
				.00	.00	.80		.00	26.25 55.00				

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FRAME COUNT	----- EPC POINT ----- (ARCHINS) (ARCSEC)	----- MAX PT EXC ----- (ARCHINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCHINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.							
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN					
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)		
28328-5	-5558.00	-26.20	586.20				.0		26.25	55.00	3117.80	1886.10	426.20	300.10	1503
				.00	.00	.80		.00	26.25	55.00					
28328-6	-5558.00	-26.20	586.20				.0		26.25	55.00	3117.80	1886.10	426.20	300.10	1503
				.00	.00	.80		.00	26.25	55.00					
28328-7	-5558.00	-26.20	586.20				.0		26.25	55.00	3117.80	1886.10	426.20	300.10	1503
				.00	.00	.80		.00	26.25	55.00					
28328-8	-5558.00	-26.20	586.20				.0		26.25	55.00	3117.80	1586.10	425.20	387.00	1503
				.99	.00	.80		.00	26.25	55.00					
28329-1	-2198.00	-451.20	317.50				.0		26.25	55.00	3116.70	393.40	428.70	229.80	1503
				.00	.00	.80		.00	26.25	55.00					
28329-2	-2198.00	-451.20	317.50				.0		26.25	55.00	3116.70	388.30	428.70	227.30	1503
				.00	.00	.80		.00	26.25	55.00					
28329-3	-2198.00	-451.20	317.50				.0		26.25	55.00	3116.70	378.10	428.70	222.40	1503
				.00	.00	.80		.00	26.25	55.00					
28329-4	-2198.00	-451.20	317.50				.0		26.25	55.00	3116.70	371.00	428.70	219.00	1503
				.00	.00	.80		.00	26.25	55.00					
28329-5	-2198.00	-451.20	317.50				.0		26.25	55.00	3116.70	343.10	428.70	205.10	1503
				.00	.00	.80		.00	26.25	55.00					
28329-6	-2198.00	-451.20	317.50				.0		26.25	55.00	3116.70	326.50	428.70	196.70	1503
				.00	.00	.80		.00	26.25	55.00					
28329-7	-2198.00	-451.20	317.50				.0		26.25	55.00	3116.50	227.50	429.60	143.40	1503
				.33	.00	.80		.00	26.25	55.00					
28329-8	-2198.00	-451.20	317.50				.0		26.25	55.00	3116.50	176.10	429.60	113.50	1503
				.00	.00	.80		.00	26.25	55.00					
28330-1	-339.00	-515.00	37.50				.0		26.25	55.00	3108.80	176.30	445.20	115.90	1503
				.00	.00	.80		.00	26.25	55.00					
28330-2	-339.00	-515.00	37.50				.0		26.25	55.00	3108.80	187.00	445.20	122.40	1503
				.00	.00	.80		.00	26.25	55.00					
28330-3	-339.00	-515.00	37.50				.0		26.25	55.00	3108.80	191.70	445.20	125.20	1503
				.00	.00	.80		.00	26.25	55.00					
28330-4	-339.00	-515.00	37.50				.0		26.25	55.00	3108.60	219.50	445.70	141.80	1503
				.00	.00	.80		.00	26.25	55.00					
28330-5	-339.00	-515.00	37.50				.0		26.25	55.00	3108.60	226.60	445.70	145.90	1503
				.00	.00	.80		.00	26.25	55.00					
28330-6	-339.00	-515.00	37.50				.0		26.25	55.00	3108.60	325.80	445.70	200.90	1503
				.00	.00	.80		.00	26.25	55.00					
28330-7	-339.00	-515.00	37.50				.0		26.25	55.00	3108.30	341.70	446.00	209.30	1503
				.00	.00	.80		.00	26.25	55.00					
28330-8	-339.00	-515.00	37.50				.0		26.25	55.00	3107.70	717.40	446.60	364.70	1503
				.99	.00	.80		.00	26.25	55.00					

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INSTRUMENT OPERATION
PAGE 1- 94

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----- SHUTTER -----

FRAME
COUNT

-WVL-

STATE MODE
(PRS)

----- OP EXP -----

TEMP

OPEN

CLOSE

EXPOSURE
TIME

-G-

OP CL

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(B)

(C)

(D)

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AT 2 HOURS 55 MINS 48 SECS

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FRAME	----- EPC POINT -----			---- MAX PT EXC ----			LIMB OFF		--NRL BIAS--		ANGLE		ALTITUDE Z(M)		ORBIT NO.
COUNT (ARCHINS)	(ARCSEC)	(ARCHINS)	(ARCSEC)	(ARCHINS)	(ARCSEC)	(ARCHINS)	(W)	(X)	(ARCHINS)	(ARCHINS)	(ARCHINS)	(ARCHINS)	(KM)	(KM)	
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY			GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)			(Y)	(Z)	(AA)	(BB)	(CC)
28331-1	-338.00	-515.00	37.50				.0	.00	26.25	55.00	3107.30	840.30	446.70	398.20	1503
28331-2	-338.00	-515.00	37.50	.00	.00	.80	.0	.00	26.25	55.00	3107.30	845.40	446.70	399.30	1503
28331-3	-338.00	-515.00	37.50	.00	.00	.80	.0	.00	26.25	55.00	3107.30	855.00	446.70	401.60	1503
28331-4	-338.00	-515.00	37.50	.00	.00	.80	.0	.00	26.25	55.00	3107.30	862.30	446.70	403.20	1503
28331-5	-338.00	-515.00	37.50	.00	.00	.80	.0	.00	26.25	55.00	3107.30	888.80	446.70	408.90	1503
28331-6	-337.00	-515.00	37.50	.00	.00	.80	.0	.00	26.25	55.00	3107.00	903.70	446.80	412.00	1503
28331-7	-337.00	-515.00	37.50	.00	.00	.80	.0	.00	26.25	55.00	3107.00	996.00	446.80	428.00	1503
28331-8	-337.00	-515.00	37.50	.00	.00	.80	.0	.00	26.25	55.00	3106.70	1043.50	446.70	434.30	1503
28332-1	-336.00	-515.00	37.50	.33	.00	.00	.0	.00	26.25	55.00	3105.80	1398.00	446.00	439.70	1503
28332-2	-336.00	-515.00	37.50	.00	.00	.80	.0	.00	26.25	55.00	3105.80	1398.00	446.00	439.70	1503
28332-3	-336.00	-515.00	37.50	.00	.00	.80	.0	.00	26.25	55.00	3105.80	1398.00	446.00	439.70	1503
28332-4	-336.00	-515.00	37.50	.00	.00	.80	.0	.00	26.25	55.00	3105.80	1398.00	446.00	439.70	1503
28332-5	-336.00	-515.00	37.50	.00	.00	.80	.0	.00	26.25	55.00	3105.80	1398.00	446.00	439.70	1503
28332-6	-333.00	17.50	558.70	.33	.00	.00	.0	.00	26.25	55.00	3103.70	2283.20	432.60	116.60	1504
28332-7	-333.00	17.50	558.70	.00	.00	.00	.0	.00	26.25	55.00	3103.70	2283.20	432.60	116.60	1504
28332-8	-333.00	17.50	558.70	.00	.00	.80	.0	.00	26.25	55.00	3103.70	2283.20	432.60	116.60	1504
28333-1	-333.00	56.30	558.70	.33	8.75	.00	.0	.00	26.25	55.00	3103.70	2265.30	431.50	125.20	1504
28333-2	-333.00	45.00	558.70	.00	.00	.00	.0	.00	26.25	55.00	3103.70	2265.30	431.50	125.20	1504
28333-3	-333.00	45.00	558.70	.00	.00	.80	.0	.00	26.25	55.00	3103.70	2265.30	431.50	125.20	1504
28333-4	-333.00	27.50	558.70	.00	.00	.80	.0	.00	26.25	55.00	3103.70	2265.30	431.50	125.20	1504
				.33	10.00	.80		.00	26.25	55.00					

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INSTRUMENT OPERATION 5-22-75 AT 2 HOURS 55 MINS 48 SECS
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INSTRUMENT OPERATION

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AT

2 HOURS 55 MINS 48 SECS

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FRAME COUNT	----- EPG (ARCMINS)	POINT (ARCSEC)	---- MAX PT EXC ---- (ARCMINS) (ARCSEC)			LIMB OFF	--NRL BIAS-- (ARCSEC)		ANGLE (ARCMINS)		ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.	
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28333-5	-332.00	37.50	561.20				.0		26.25 55.00	3103.70	2235.30	430.40	140.70	1504
28333-6	-332.00	15.00	565.00	.33	17.50	3.75	.0	.00	26.25 55.00	3103.70	2193.70	429.40	162.30	1504
28333-7	-5434.00	175.00	-660.00	.66	127.50	13.75	.0	.00	26.25 55.00	3053.60	-2149.80	440.20	203.80	1506
28333-8	-5434.00	175.00	-660.00	.00	.00	.00	.0	.00	26.25 55.00	3053.60	-2149.80	440.20	203.80	1506
28334-1	-5434.00	175.00	-660.00	.00	.00	.00	.0	.00	26.25 55.00	3053.60	-2078.80	440.10	239.00	1506
28334-2	-5434.00	175.00	-660.00	.00	.00	.00	.0	.00	26.25 55.00	3046.40	2198.90	428.20	157.40	1506
28334-3	-5434.00	175.00	-660.00	.00	.00	.00	.0	.00	26.25 55.00	3040.60	-1704.80	441.70	380.60	1506
28334-4	-5434.00	175.00	-660.00	.00	.00	.00	.0	.00	26.25 55.00	3053.60	-2149.80	440.20	203.80	1506
28334-5	-5434.00	175.00	-660.00	.00	.00	.00	.0	.00	26.25 55.00	3053.60	-2149.80	440.20	203.80	1506
28334-6	-5434.00	175.00	-660.00	.00	.00	.00	.0	.00	26.25 55.00	3053.60	-2078.80	440.10	239.00	1506
28334-7	-5434.00	175.00	-660.00	.00	.00	.00	.0	.00	26.25 55.00	3046.40	2198.90	428.20	157.40	1506
28334-8	-4283.00	23.00	23.70	.00	.00	.00	.0	.00	26.25 55.00	2943.00	234.50	437.20	86.70	1514
28335-1	-4282.00	23.00	23.70	.00	.00	.00	.0	.00	26.25 55.00	2943.00	244.20	431.20	11.30	1514
28335-2	-70.00	815.00	214.00	.00	.00	.00	.0	.00	26.25 55.00	2928.00	245.50	430.30	8.70	1515
28335-3	-70.00	815.00	214.00	.00	.00	.00	.0	.00	26.25 55.00	2928.00	245.50	430.30	8.70	1515
28335-4	-70.00	815.00	214.00	.00	.00	.00	.0	.00	26.25 55.00	2928.00	245.50	430.30	8.70	1515
28335-5	-70.00	815.00	214.00	.00	.00	.00	.0	.00	26.25 55.00	2928.00	245.50	430.30	8.70	1515
28335-6	-70.00	815.00	214.00	.70	.00	.00	.0	.00	26.25 55.00	2928.00	245.50	430.30	8.70	1515
28335-7	-70.00	815.00	214.50	.00	.00	.00	.0	.00	26.25 55.00	2928.00	241.40	429.30	27.50	1515
28335-8	-70.00	815.00	214.50	.00	.00	.00	.0	.00	26.25 55.00	2928.00	241.40	429.30	27.50	1515
				.00	.00	.00		.00	26.25 55.00					

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INSTRUMENT OPERATION

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AT 2 HOURS 55 MINS 48 SECS

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FRAME COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)		LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMR	GAMX	GAMY			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	
28336-1	-69.00	815.00	214.00				.0		26.25 55.00 2928.00 2248.00 426.80 127.30 1915
28336-2	-2403.00	891.20	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.90 2270.80 426.40 113.00 1518
28336-3	-2403.00	891.20	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.90 2270.80 426.40 113.00 1518
28336-4	-2403.00	891.20	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.90 2188.10 425.80 159.30 1518
28336-5	-2403.00	891.20	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.90 2188.10 425.80 159.30 1518
28336-6	-2403.00	891.20	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.90 2188.10 425.80 159.30 1518
28336-7	-2403.00	891.20	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.90 2188.10 425.80 159.30 1518
28336-8	-2402.00	891.20	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.90 2095.30 425.40 207.10 1518
28337-1	-2402.00	891.20	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.90 2095.30 425.40 207.10 1518
28337-2	-2592.00	922.50	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.50 1377.30 425.50 418.60 1518
28337-3	-2592.00	922.50	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.40 1228.10 426.00 426.00 1518
28337-4	-2592.00	922.50	50.00	.33	.00	.00	.0	.00	26.25 55.00 2881.40 1223.00 426.00 426.00 1518
28337-5	-2592.00	922.50	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.40 1194.80 426.00 425.70 1518
28337-6	-2592.00	922.50	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.40 1187.70 426.00 425.60 1518
28337-7	-2592.00	922.50	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.20 1087.90 426.50 421.20 1518
28337-8	-2592.00	922.50	50.00	.00	.00	.00	.0	.00	26.25 55.00 2881.20 1071.30 426.50 419.80 1518
28338-1	-2592.00	922.50	50.00	.00	.00	.00	.0	.00	26.25 55.00 2880.80 666.50 427.90 338.10 1518
28338-2	-2815.00	955.00	50.00	.00	.00	.00	.0	.00	26.25 55.00 2879.90 189.50 431.50 121.80 1918
28338-3	-2815.00	955.00	50.00	.00	.00	.00	.0	.00	26.25 55.00 2879.90 184.10 431.50 118.60 1518
28338-4	-2815.00	955.00	50.00	.66	.00	.00	.0	.00	26.25 55.00 2879.90 173.00 431.50 111.90 1918
				.00	.00	.00	.0	.00	26.25 55.00

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INSTRUMENT OPERATION
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AT 2 HOURS 55 MINS 48 SECS

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FRAME COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	---- MAX PT EXC ---- (ARCMINS) (ARCSEC)		LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GANY	GAMRK	GAMX	GANY			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)
									(Z)
									(AA)
									(BB)
									(CC)
28338-5	-2815.00	955.00	50.00				.0		26.25 55.00 2879.90 165.00 431.50 107.10 1918
28338-6	-2815.00	955.00	50.00	.66	.00	.00	.0	.00	26.25 55.00 2879.90 134.50 431.50 88.40 1918
28338-7	-2815.00	955.00	50.00	.00	.00	.00	.0	.00	26.25 55.00 2879.90 116.80 431.50 77.40 1918
28338-8	-2815.00	955.00	50.00	.66	.00	.00	.0	.00	26.25 55.00 2879.60 9.10 432.50 6.30 1918
28339-1	-2815.00	955.00	50.00	.66	.00	.00	.0	.00	26.25 55.00 2879.60 -53.00 432.50 431.70 1918
28339-2	-2798.00	970.00	62.50	.66	.00	.00	-12.0	.00	26.25 55.00 2871.40 176.50 446.80 117.40 1918
28339-3	-2798.00	970.00	62.50	.99	.00	.00	-12.0	1.00	26.25 55.00 2871.40 189.60 446.80 124.20 1918
28339-4	-2798.00	970.00	62.50	.00	.00	.00	-12.0	.00	26.25 55.00 2671.40 195.20 446.80 127.50 1918
28339-5	-2798.00	970.00	62.50	.99	.00	.00	-12.0	.00	26.25 55.00 2871.40 225.30 446.80 145.40 1918
28339-6	-2797.00	970.00	62.50	.99	.00	.00	-13.0	1.00	26.25 55.00 2871.40 233.30 446.80 150.00 1918
28339-7	-2797.00	970.00	72.50	.00	.00	10.00	-12.0	-1.00	26.25 55.00 2871.10 340.40 447.00 208.90 1918
28339-8	-2797.00	970.00	62.50	.00	.00	.00	-12.0	.00	26.25 55.00 2871.10 357.80 447.00 217.90 1918
28340-1	-2797.00	970.00	62.50	.00	.00	.00	-12.0	.00	26.25 55.00 2870.50 771.40 447.30 380.90 1918
28340-2	-2797.00	970.00	62.50	.00	.00	.00	-3.0	.00	26.25 55.00 2870.10 825.30 447.30 394.90 1918
28340-3	-2797.00	970.00	62.50	.00	.00	.00	-4.0	.00	26.25 55.00 2870.10 835.80 447.30 397.50 1918
28340-4	-2797.00	970.00	62.50	.00	.00	.00	-3.0	.00	26.25 55.00 2870.10 841.30 447.30 398.80 1918
28340-5	-2797.00	970.00	62.50	.00	.00	.00	-4.0	1.00	26.25 55.00 2870.10 870.40 447.30 405.40 1918
28340-6	-2797.00	970.00	62.50	.00	.00	.00	-4.0	.00	26.25 55.00 2870.10 877.80 447.30 407.00 1918
28340-7	-2796.00	970.00	62.50	.00	.00	.00	-4.0	1.00	26.25 55.00 2869.80 980.70 447.20 426.10 1918
28340-8	-2796.00	970.00	62.50	.00	.00	.00	-4.0	.00	26.25 55.00 2869.80 980.70 447.20 426.10 1918
				.99	.00	.00		.00	26.25 55.00

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----										TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G-											OP	CL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)		
239:20:12:11:708			28341-1	L	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	12:31:708	0:20: 0															
239:20:12:33:458			28341-2	S	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	12:35:958	0: 2:500															
239:20:12:37:708			28341-3	L	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	12:38:208	0: 0:500															
239:20:12:39:708			28341-4	S	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	12:49:958	0:10:250															
239:20:12:51:708			28341-5	L	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	12:52:958	0: 1:250															
239:20:12:54:708			28341-6	S	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	13:34:958	0:40:250															
239:20:13:36:458			28341-7	L	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	13:41:708	0: 5:250															
239:20:13:43:208			28341-8	S	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	16:23:458	2:40:250															
239:20:16:26:958			28342-1	L	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	16:46:958	0:20: 0															
239:20:16:48:708			28342-2	S	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	16:51:458	0: 2:750															
239:20:16:52:958			28342-3	L	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	16:53:458	0: 0:500															
239:20:16:55:208			28342-4	S	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	17: 5:458	0:10:250															
239:20:17: 6:958			28342-5	L	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	17: 8:458	0: 1:500															
239:20:17:10:208			28342-6	S	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	17:50:208	0:40: 0															
239:20:17:51:958			28342-7	L	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	17:56:958	0: 5: 0															
239:20:17:58:708			2834														

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INSTRUMENT OPERATION
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FRAME COUNT	----- EPC (ARCHINS)	POINT (ARCSEC)	--- MAX PT EXC --- (ARCHINS) (ARCSEC)			LIMB OFF	--NRL BIAS-- (ARCSEC)		ANGLE (ARCHINS)		ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.	
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY			-BETA- OPEN	-Z- OPEN				
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28341-1	-2796.00	970.00	62.50				-4.0		26.25 55.00	2868.90	1356.70	446.30	443.00	1518
28341-2	-2795.00	970.00	62.50	.99	.00	.00	-2.0	.00	26.25 55.00	2868.90	1356.70	446.30	443.00	1518
28341-3	-2795.00	970.00	62.50	1.32	.00	.00	-2.0	.00	26.25 55.00	2868.90	1356.70	446.30	443.00	1518
28341-4	-2795.00	970.00	62.50	.00	.00	.00	-2.0	.00	26.25 55.00	2868.90	1356.70	446.30	443.00	1518
28341-5	-2795.00	970.00	62.50	.33	.00	.00	-3.0	.00	26.25 55.00	2868.90	1356.70	446.30	443.00	1518
28341-6	-2795.00	970.00	62.50	.00	.00	.00	-3.0	.00	26.25 55.00	2868.90	1356.70	446.30	443.00	1518
28341-7	-2795.00	970.00	62.50	.00	.00	.00	-2.0	-1.00	26.25 55.00	2868.60	1491.70	445.70	428.80	1518
28341-8	-2795.00	970.00	62.50	.00	.00	.00	-2.0	.00	26.25 55.00	2868.60	1491.70	445.70	428.80	1518
28342-1	-2795.00	970.00	62.50	1.32	.00	.00	-2.0	.00	26.25 55.00	2867.80	1865.40	443.50	333.20	1518
28342-2	-2795.00	970.00	62.50	.00	.00	.00	1.0	.00	26.25 55.00	2867.80	1865.40	443.50	333.20	1518
28342-3	-2795.00	970.00	62.50	.00	.00	.00	1.0	.00	26.25 55.00	2867.80	1865.40	443.50	333.20	1518
28342-4	-2795.00	970.00	62.50	.00	.00	.00	1.0	.00	26.25 55.00	2867.80	1865.40	443.50	333.20	1518
28342-5	-2794.00	970.00	62.50	.00	.00	.00	.0	1.00	26.25 55.00	2867.60	1977.10	442.60	288.60	1518
28342-6	-2794.00	970.00	62.50	.00	.00	.00	.0	.00	26.25 55.00	2867.60	1977.10	442.60	288.60	1518
28342-7	-2794.00	970.00	62.50	.00	.00	.00	.0	.00	26.25 55.00	2867.60	1977.10	442.60	288.60	1518
28342-8	-2794.00	970.00	62.50	.00	.00	.00	.0	.00	26.25 55.00	2867.60	1977.10	442.60	288.60	1518
28343-1	-2794.00	970.00	62.50	.99	.00	.00	.0	.00	26.25 55.00	2867.00	2261.80	439.30	140.90	1518
28343-2	-2794.00	970.00	62.50	.00	.00	.00	2.0	.00	26.25 55.00	2866.90	2336.90	438.10	93.70	1518
28343-3	-2794.00	970.00	62.50	.00	.00	.00	2.0	1.00	26.25 55.00	2866.90	2336.90	438.10	93.70	1518
28343-4	-2794.00	970.00	62.50	.00	.00	.00	2.0	.00	26.25 55.00	2866.90	2336.90	438.10	93.70	1518
				.33	.00	.00		.00	26.25 55.00					

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INSTRUMENT OPERATION
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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----										TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G#											OP	CL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)		
239:20:22: 1:958			2B343-5	L	LMB PT AUTO S	X	X	5	GA	6	A	H1	OK		OK		
	22:12:258	0:10:250															
239:20:22:13:708			2B343-6	S	LMB PT AUTO S	X	X	5	MA	6	A	H1	OK		OK		
	24:53:958	2:40:250															
239:20:24:55:708			2B343-7	L	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	25:35:958	0:40:250															
239:20:25:37:458			2B343-8	S	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	36:17:706	10:40:250															
239:20:36:21:208			2B344-1	L	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	39: 1:208	2:40: 0															
239:20:39: 2:958			2B344-2	S	LMB PT AUTO S	X	X	5	M3	6	A	H1	OK		OK		
	39:13:208	0:10:250															
239:20:39:14:708			2B344-3	L	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK		
	39:17:458	0: 2:750															
239:20:39:19:208			2B344-4	S	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK		
	39:59:456	0:40:250															
239:20:40: 1:208			2B344-5	L	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK		
	40:11:208	0:10: 0															
239:20:40:12:958			2B344-6	S	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK		
	42:52:950	2:39:992															
239:20:42:54:362			2B344-7	L	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK		
	43:34:526	0:40:164															
239:20:43:36:192			2B344-8	S	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK		
	51:20:756	7:44:564															
239:21:33:38: 48			2B345-1	L	LM SC AUTO S	X	4	5	MA	6	A	H1	OK		OK		
	36:18: 41	2:39:993															
239:21:36:19:791			2B345-2	S	LMB PT AUTO S	X	4	5	MA	6	A	H1	OK		OK		
	36:29:790	0: 9:999															
239:21:36:31:540			2B345-3	L	LMB PT AUTO S	X	4	5	MA	6	A	H1	OK		OK		
	36:34:290	0: 2:750															
239:21:36:35:790																	

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AT 2 HOURS 55 MINS 48 SECS

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FRAME COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)		LIMB OFF		--NRL BIAS-- (ARCSEC)		ANGLE (ARCMINS)		ALTITUDE (KM)	Z (M) (KM)	ORBIT NO.			
	GAMRR	GAMX	GANY	GAMRR	GAMX	GANY			-BETA- OPEN	-Z- OPEN					
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)		
28343-5	-2793.00	970.00	62.50				2.0		26.25	55.00	2866.80	2400.60	436.90	50.70	1518
28343-6	-2793.00	970.00	62.50	.00	.00	.00	2.0	.00	26.25	55.00	2866.80	2400.60	436.90	50.70	1518
28343-7	-2793.00	970.00	62.50	.33	.00	.00	2.0	.00	26.25	55.00	2866.60	2490.70	434.50	-15.40	1518
28343-8	-2793.00	970.00	62.50	.00	.00	.00	2.0	.00	26.25	55.00	2866.50	2515.70	433.30	-35.50	1518
28344-1	-2791.00	970.00	62.50	1.32	.00	.00	2.0	.00	26.25	55.00	2866.30	1923.00	424.90	283.80	1519
28344-2	-2790.00	970.00	62.50	.33	.00	.00	4.0	.00	26.25	55.00	2866.10	1554.20	425.10	393.30	1519
28344-3	-2790.00	970.00	62.50	.33	.00	.00	4.0	1.00	26.25	55.00	2866.10	1554.20	425.10	393.30	1519
28344-4	-2790.00	970.00	62.50	.00	.00	.00	4.0	.00	26.25	55.00	2866.10	1554.20	425.10	393.30	1519
28344-5	-2790.00	970.00	62.50	.33	.00	.00	4.0	.00	26.25	55.00	2866.00	1417.50	425.10	393.30	1519
28344-6	-2790.00	970.00	62.50	.33	.00	.00	4.0	.00	26.25	55.00	2866.10	1392.00	425.10	393.30	1519
28344-7	-2789.00	970.00	62.50	.33	.00	.00	4.0	.00	26.25	55.00	2865.70	1005.90	426.40	412.80	1519
28344-8	-2789.00	970.00	62.50	.33	.00	.00	4.0	.00	26.25	55.00	2865.60	902.40	427.10	397.30	1519
28345-1	-2881.00	977.50	62.50	.99	.00	.00	4.0	.00	26.25	55.00	2856.90	-389.70	444.80	401.00	1519
28345-2	-2880.00	977.50	62.50	.00	.00	.00	6.0	1.00	26.25	55.00	2856.00	28.40	446.30	19.80	1519
28345-3	-2880.00	977.50	62.50	.00	.00	.00	6.0	-3.00	26.25	55.00	2856.00	58.80	446.30	40.60	1519
28345-4	-2880.00	977.50	62.50	.00	.00	.00	6.0	.00	26.25	55.00	2856.00	69.80	446.30	48.00	1519
28345-5	-2880.00	977.50	62.50	.00	.00	.00	6.0	.00	26.25	55.00	2855.70	178.50	446.60	117.40	1519
28345-6	-2880.00	977.50	62.50	.00	.00	.00	6.0	.00	26.25	55.00	2855.70	208.80	446.60	135.70	1519
28345-7	-2879.00	977.50	62.50	.33	.00	.00	6.0	.00	26.25	55.00	2854.80	623.50	447.30	333.70	1519
28345-8	-2879.00	977.50	62.50	.33	.00	.00	5.0	1.00	26.25	55.00	2854.80	729.60	447.30	368.80	1519
				.66	.00	.00		-1.00	26.25	55.00					

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AT 2 HOURS 55 MINS 48 SECS

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FRAME COUNT	----- EPC POINT ----- (ARCHINS) (ARCSEC)	----- MAX PT EXC ----- (ARCHINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCHINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28346-1	-2877.00	977.50	62.50				6.0	
28346-2	-2876.00	977.50	62.50	.33	.00	.00	8.0	1.00
28346-3	-2876.00	977.50	62.50	.00	.00	.00	8.0	1.00
28346-4	-2876.00	977.50	62.50	.00	.00	.00	8.0	.00
28346-5	-2876.00	977.50	62.50	.33	.00	.00	7.0	1.00
28346-6	-2876.00	977.50	62.50	.00	.00	.00	8.0	-1.00
28346-7	-2875.00	977.50	62.50	.33	.00	.00	8.0	.00
28346-8	-2875.00	977.50	62.50	.33	.00	.00	8.0	.00
28347-1	-2873.00	977.50	62.50	.66	.00	.00	7.0	1.00
28347-2	-2872.00	977.50	62.50	.00	.00	.00	12.0	1.00
28347-3	-2872.00	977.50	62.50	.00	.00	.00	11.0	1.00
28347-4	-2872.00	977.50	62.50	.00	.00	.00	11.0	.00
28347-5	-2872.00	977.50	62.50	.00	.00	.00	12.0	-1.00
28347-6	-2872.00	977.50	62.50	.00	.00	.00	12.0	.00
28347-7	-2871.00	977.50	62.50	.66	.00	.00	12.0	.00
28347-8	-2870.00	977.50	62.50	.33	.00	.00	12.0	1.00
28348-1	-2860.00	987.50	62.50	.33	.00	.00	11.0	1.00
28348-2	-2858.00	987.50	62.50	.66	.00	.00	20.0	-1.00
28348-3	-2858.00	987.50	62.50	.33	.00	.00	20.0	1.00
28348-4	-2858.00	987.50	62.50	.00	.00	.00	19.0	1.00
				.99	.00	.00		.00

~~5-22-75 AT 2 HOURS 55 MINS 48 SECS~~

----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----									TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G-										OP	CL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	
239:23:14:41:918			2B348-5	L	LMB PT AUTO S	X	X	5	MA	6	X	H1	OK		OK	
	14:57:917	0:15:999														
239:23:14:59:667			2B348-6	S	LMB PT AUTO S	X	X	5	MA	6	X	H1	OK		OK	
	19:15:905	4:16:238														
239:23:19:17:655			2B348-7	L	LMB PT AUTO S	X	X	5	MA	6	X	H1	OK		OK	
	20:21:652	1: 3:497														
239:23:20:23:458			2B348-8	S	LMB PT AUTO S	X	4	5	MA	6	X	H1	OK		OK	
	37:27:600	17: 4:142														
239:23:37:31:100			2B349-1	L	LMB PT AUTO S	X	X	5	MA	6	X	H1	OK		OK	
	41:47:337	4:16:237														
239:23:45:59:325			2B349-2	S	LMB PT MAN	X	X	5	GS	6	X	H1	OK		OK	
	46:36:323	0:38:998														
239:23:49:10:172			2B349-3	S	LMB PT MAN	X	X	5	MA	6	X	H1	OK		OK	
	51:49:249	2:39: 77														
239:23:54:46:327			2B349-4	S	BORE MAN	X	X	5	GS	6	X	H1	OK		OK	
	55:26:242	0:39:915														
239:23:55:51:492			2B349-5	S	BORE MAN	X	X	5	G3	6	X	H1	OK		OK	
	58:31:232	2:39:740														
240:12:20:56:558			2B349-6	S		MAN	X	X	5	GS	6	X	H1	OK	OK	
	23:35:558	2:39: 0														
240:13: 8:22:308			2B349-7	S		MAN	X	X	5	GS	6	X	H1	OK	OK	
	13:41:266	5:18:958														
240:13:27:58:558			2B349-8	S		MAN	2	4	5	G3	6	X	H1	OK	OK	
	28:56:308	0:59:750														
240:13:29:26:308			2B350-1	S		MAN	2	4	5	G3	6	X	H1	OK	OK	
	34:26:308	5: 0: 0														
240:15:26:25: 50			2B350-2	S	BORE AUTO	X	X	5	GS	6	X	H1	OK		OK	
	26:27:808	0: 2:750														
240:15:26:29:308			2B350-3	L	BORE AUTO	X	X	5	GS	6	X	H1	OK		OK	
	26:29:808	0: 0:500														
240:15:26:31:558			2B350-4	S	BORE AUTO	X	X	5	GS	6	X	H1	OK		OK	
	26:41:558	0:10: 0														
240:15:26:43:308			2B350-5	L	BORE AUTO	X	X	5	GS	6	X	H1	OK		OK	
	26:44:808	0: 1:500														
240:15:26:46:308			2B350-6	S	BORE AUTO	X	X	5	GS	6	X	H1	OK		OK	
	27:26:558	0:40:250														
240:15:27:28: 58			2B350-7	L	BORE AUTO	X	X	5	GS	6	X	H1	OK		OK	
	27:33:308	0: 5:250														
240:15:27:34:808			2B350-8	S	BORE AUTO	X	X	5	GS	6	X	H1	OK		OK	
	30:15: 58	2:40:250														

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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)			LIMB OFF	--NRL BIAS-- (ARCSEC)		ANGLE (ARCMINS)		ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.	
	GAMRR	GAMX	GAMY	GAMRE	GAMA	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28348-5	-2858.00	987.50	62.50				19.0		26.25 55.00	2838.90	816.90	447.40	392.90	1520
28348-6	-2858.00	987.50	62.50	.66	.00	.80	19.0	.00	26.25 55.00	2838.90	861.50	447.40	403.50	1520
28348-7	-2856.00	987.50	62.50	.99	.00	.00	19.0	.00	26.25 55.00	2837.30	1438.40	446.00	435.70	1520
28348-8	-2856.00	987.50	62.50	.66	.00	.00	20.0	-1.00	26.25 55.00	2837.20	1572.80	445.40	415.20	1520
28349-1	-2853.00	987.50	62.50	.99	.00	.80	20.0	.00	26.25 55.00	2835.00	2433.60	427.70	11.60	1520
28349-2	-5676.00	138.70	-790.00	.66	.00	.00	-50.0	.00	26.25 55.00	2834.70	1638.60	425.30	375.40	1520
28349-3	-5674.00	138.70	-790.00	.00	.00	.00	-50.0	.00	26.25 55.00	2834.20	1053.10	427.10	418.60	1520
28349-4	-5672.00	-30.00	346.20	.33	.00	.00	.0	.00	26.25 55.00	2833.10	191.90	431.20	123.10	1520
28349-5	-5672.00	-30.00	346.20	.00	.00	.00	.0	.00	26.25 55.00	2832.80	21.30	432.20	14.70	1521
28349-6	-3945.00	-223.70	-503.70	.33	.00	.80	.0	.00	26.25 55.00	2705.80	326.60	431.50	197.50	1528
28349-7	-3938.00	20.00	381.20	.00	.00	.00	.0	.00	26.25 55.00	2697.30	2.50	446.90	34.00	1528
28349-8	-4196.00	23.70	23.70	.00	.00	.00	.0	.00	26.25 55.00	2692.10	2510.00	436.70	-25.00	1529
28350-1	-4196.00	23.70	23.70	.00	.00	.00	.0	.00	26.25 55.00	2691.90	2630.70	434.20	120.40	1529
28350-2	1167.00	-15.00	-25.00	.00	.00	.00	.0	.00	26.25 55.00	2673.50	410.60	431.10	238.70	1530
28350-3	1167.00	-15.00	-25.00	.00	.00	.80	.0	.00	26.25 55.00	2673.50	410.60	431.10	238.70	1530
28350-4	1167.00	-15.00	-25.00	.00	.00	.00	.0	.00	26.25 55.00	2673.50	410.60	431.10	238.70	1530
28350-5	1167.00	-15.00	-25.00	.00	.00	.00	.0	.00	26.25 55.00	2673.50	410.60	431.10	238.70	1530
28350-6	1167.00	-15.00	-25.00	.00	.00	.00	.0	.00	26.25 55.00	2673.50	410.60	431.10	238.70	1530
28350-7	1167.00	-15.00	-25.00	.00	.00	.00	.0	.00	26.25 55.00	2673.20	246.30	432.10	154.50	1530
28350-8	1167.00	-15.00	-25.00	.00	.00	.00	.0	.00	26.25 55.00	2673.20	246.30	432.10	154.50	1530
				.00	.00	.00		.00	26.25 55.00					

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FRAME	----- EPC POINT -----			----- MAX PT EXC -----			LIMB OFF		--NRL BIAS--		ANGLE		ALTITUDE Z(M)		ORBIT NO.
COUNT	(ARCMINS)	(ARCSEC)		(ARCMINS)	(ARCSEC)				(ARCSEC)		(ARCMINS)		(KM)	(KM)	
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY			GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)			(Y)	(Z)	(AA)	(BB)	(CC)
28351-1	1168.00	-15.00	-25.00				.0		26.25	55.00	2672.10	-300.20	435.30	409.30	1530
28351-2	-411.00	930.00	148.70	.00	.00	.00	.0	.00	26.25	55.00	2663.70	466.10	447.70	270.10	1530
28351-3	-411.00	930.00	148.70	.00	.00	.00	.0	.00	26.25	55.00	2663.70	466.10	447.70	270.10	1530
28351-4	-411.00	930.00	148.70	.00	.00	.00	.0	.00	26.25	55.00	2663.70	466.10	447.70	270.10	1530
28351-5	-411.00	930.00	148.70	.00	.00	.00	.0	.00	26.25	55.00	2663.70	466.10	447.70	270.10	1530
28351-6	-411.00	930.00	148.70	.00	.00	.00	.0	.00	26.25	55.00	2663.30	628.60	447.70	335.80	1530
28351-7	-411.00	930.00	148.70	.00	.00	.00	.0	.00	26.25	55.00	2663.30	628.60	447.70	335.80	1530
28351-8	-411.00	930.00	148.70	.00	.00	.00	.0	.00	26.25	55.00	2663.30	628.60	447.70	335.80	1530
28352-1	-410.00	930.00	148.70	.00	.00	.00	.0	.00	26.25	55.00	2663.00	789.60	447.60	386.00	1530
28352-2	-401.00	-601.20	73.70	.00	.00	.00	.0	.00	26.25	55.00	2658.90	1838.00	424.80	315.70	1531
28352-3	-399.00	-616.20	83.70	.00	.00	.00	.0	.00	26.25	55.00	2656.70	122.30	432.90	81.00	1531
28352-4	-135.00	908.70	216.20	.00	.00	.00	.0	.00	26.25	55.00	2648.50	-152.20	447.00	440.30	1531
28352-5	-135.00	908.70	216.20	.00	.00	.00	.0	.00	26.25	55.00	2648.70	-141.20	447.00	441.30	1531
28352-6	-135.00	915.00	222.50	.00	.00	.00	.0	.00	26.25	55.00	2648.50	-135.70	447.00	441.70	1531
28352-7	-135.00	915.00	222.50	.00	.00	.00	.0	.00	26.25	55.00	2648.50	-102.60	447.10	440.10	1531
28352-8	-135.00	915.00	222.50	.00	.00	.00	.0	.00	26.25	55.00	2648.40	-94.40	447.10	444.60	1531
28353-1	-135.00	915.00	222.50	.00	.00	.00	.0	.00	26.25	55.00	2648.20	26.90	447.20	16.90	1531
28353-2	-135.00	915.00	222.50	.00	.00	.00	.0	.00	26.25	55.00	2648.20	46.20	447.20	16.90	1531
28353-3	36.00	913.70	266.20	.00	.00	.00	.0	.00	26.25	55.00	2646.10	1072.70	447.20	438.00	1531
28353-4	36.00	913.70	266.20	.00	.00	.00	.0	.00	26.25	55.00	2646.10	1072.70	447.20	438.00	1531
				.00	.00	.00		.00	26.25	55.00					

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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	---- MAX PT EXC ---- (ARCMINS) (ARCSEC)			LIMB OFF	--NRL BIAS-- (ARCSEC)		ANGLE (ARCMINS)		ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.	
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28353-5	36.00	913.70	266.20				.0		26.25 55.00	2646.10	1072.70	447.20	438.00	1531
28353-6	36.00	913.70	266.20	.00	.00	.00	.0	.00	26.25 55.00	2646.10	1072.70	447.20	438.00	1531
28353-7	36.00	913.70	266.20	.00	.00	.00	.0	.00	26.25 55.00	2646.10	1072.70	447.20	438.00	1531
28353-8	36.00	913.70	266.20	.00	.00	.00	.0	.00	26.25 55.00	2645.80	1228.30	446.70	446.60	1531
28354-1	36.00	913.70	266.20	.00	.00	.00	.0	.00	26.25 55.00	2645.80	1228.30	446.70	446.60	1531
28354-2	36.00	913.70	266.20	.00	.00	.00	.0	.00	26.25 55.00	2644.90	1673.80	444.80	392.50	1531
28354-3	-9.00	-656.30	226.20	.00	.00	.00	.0	.00	26.25 55.00	2642.40	1598.90	425.50	384.70	1532
28354-4	-4173.00	672.50	-10.00	.00	.00	.00	.0	.00	26.25 55.00	2627.30	2290.00	439.90	125.30	1532
28354-5	-4167.00	662.50	-10.00	.00	.00	.00	.0	.00	26.25 55.00	2625.60	1342.10	426.50	422.50	1533
28354-6	1291.00	-37.50	-36.20	.00	.00	.00	.0	.00	26.25 55.00	2576.30	1915.30	425.10	287.10	1535
28354-7	1291.00	-37.50	-36.20	.00	.00	.00	.0	.00	26.25 55.00	2576.30	1915.30	425.10	287.10	1535
28354-8	1291.00	-37.50	-36.20	.00	.00	.00	.0	.00	26.25 55.00	2576.30	1915.30	425.10	287.10	1535
28355-1	1291.00	-37.50	-36.20	.00	.00	.00	.0	.00	26.25 55.00	2576.30	1915.30	425.10	287.10	1535
28355-2	1291.00	-37.50	-36.20	.00	.00	.00	.0	.00	26.25 55.00	2576.30	1915.30	425.10	287.10	1535
28355-3	1292.00	-37.50	-36.20	.00	.00	.00	.0	.00	26.25 55.00	2576.20	1773.70	425.40	338.00	1535
28355-4	1292.00	-37.50	-36.20	.00	.00	.00	.0	.00	26.25 55.00	2576.20	1773.70	425.40	338.00	1535
28355-5	1292.00	-37.50	-36.20	.00	.00	.00	.0	.00	26.25 55.00	2575.70	1318.90	427.00	424.40	1535
28355-6	8.00	.00	560.00	.00	.00	.00	.0	.00	26.25 55.00	2560.00	2701.70	426.60	-192.60	1536
28355-7	8.00	.00	560.00	.00	.00	.00	.0	.00	26.25 55.00	2560.00	2701.70	426.60	-192.60	1536
28355-8	8.00	.00	560.00	.00	.00	.00	.0	.00	26.25 55.00	2560.00	2701.70	426.60	-192.60	1536
				.00	20.00	.00		.00	26.25 55.00					

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----								TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G-										OP	CL
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
241: 2: 2:48:509	2:50: 9	C: 1:500	28356-1	L		AUTO	X	X	5	MA	6	X	H1	OK	OK
241: 2: 2:51:509	3:31:757	C:40:248	28356-2	S		AUTO	X	X	5	MA	6	X	H1	OK	OK
241: 2: 3:33:507	3:38:507	C: 5: 0	28356-3	L		AUTO	X	X	5	MA	6	X	H1	OK	OK
241: 2: 3:40:256	5: 7:253	1:26:997	28356-4	S		AUTO	X	X	5	MA	6	X	H1	OK	OK
241: 2: 5:28: 2	5:30:502	C: 2:500	28356-5	S		AUTO	X	X	5	MA	6	X	H1	OK	OK
241: 2: 5:32:252	5:32:752	C: 0:500	28356-6	L		AUTO	X	X	5	MA	6	X	H1	OK	OK
241: 2: 5:34:252	5:44:502	C:10:250	28356-7	S		AUTO	X	X	5	MA	6	X	H1	OK	OK
241: 2: 5:46:251	5:47:501	C: 1:250	28356-8	L		AUTO	X	X	5	MA	6	X	H1	OK	OK
241: 2: 5:51: 1	6: 7:250	C:16:249	28357-1	S		AUTO	X	X	5	MA	6	X	H1	OK	OK
241: 2: 6:27:749	6:30:499	C: 2:750	28357-2	S		AUTO	X	X	5	MA	6	X	H1	OK	OK
241: 2: 6:31:999	6:32:499	C: 0:500	28357-3	L		AUTO	X	X	5	MA	6	X	H1	OK	OK
241: 2: 6:34:249	6:37:249	C: 3: 0	28357-4	S		AUTO	X	X	5	MA	6	X	H1	OK	OK
241:12:34:39: 13	35:38:761	C:59:748	28357-5	S		MAN	2	4	5	G3	6	X	H1	OK	OK
241:12:35:55:510	40:54:749	4:59:239	28357-6	S		MAN	2	4	5	G3	6	X	H1	OK	OK
241:13: 6:25:921	9: 5:663	2:39:742	28357-7	S		MAN	X	X	5	MA	6	X	H1	OK	OK
241:13: 9:14:412	9:53:660	C:39:248	28357-8	S		MAN	X	X	5	MA	6	X	H1	OK	OK
241:13:10: 2:160	10: 3:660	C: 1:500	28358-1	S		MAN	X	X	5	MA	6	X	H1	OK	OK
241:14:11:16:991	11:33:240	C:16:249	28358-2	S	LMB PT	AUTO	X	X	5	ML	6	X	H1	OK	OK
241:14:11:34:740	11:36:990	C: 4:250	28358-3	L	LMB PT	AUTO	X	X	5	ML	6	X	H1	OK	OK
241:14:11:40:740	12:44:738	1: 3:998	28358-4	S	LMB PT	AUTO	X	4	5	ML	6	X	H1	OK	OK

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FRAME	----- EPC POINT -----	----- MAX PT EXC -----	LIMB OFF	--NRL BIAS--	ANGLE	ALTITUDE	Z (H)	ORBIT
COUNT (ARCMINS)	(ARCSEC)	(ARCMINS) (ARCSEC)		(ARCSEC)	(ARCMINS)	(KM)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28356-1	8.00	20.00	560.00					
28356-2	8.00	20.00	560.00					
28356-3	8.00	52.50	562.50		51.25	2.50		
28356-4	8.00	-5.00	562.50		57.50			
28356-5	9.00	6.30	561.20		63.00	1.30		
28356-6	9.00	6.30	561.20					
28356-7	9.00	6.30	561.20					
28356-8	9.00	26.20	566.20		20.00	5.00		
28357-1	9.00	26.20	566.20					
28357-2	9.00	55.00	563.70		17.50	6.25		
28357-3	9.00	55.00	563.70					
28357-4	9.00	55.00	563.70					
28357-5	4198.20	23.70	25.00					
28357-6	-4197.60	23.70	25.00					
28357-7	10.00	112.50	-11.20					
28357-8	11.00	112.50	-11.20					
28358-1	11.00	112.50	-11.20					
28358-2	-883.00	-940.00	56.30				18.0	
28358-3	-883.00	-940.00	56.30				18.0	
28358-4	-883.00	-940.00	56.30				18.0	

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)		----- UP EXP -----								TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G-										OP	CL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	
241:14:12:46:487			28358-5	L	LMB PT	AUTO	X	4	5	GS	6	X	H1	OK		
	13: 2:737	0:16:250													OK	
241:14:13: 4:237			28358-6	S	LMB PT	AUTO	X	4	5	GS	6	X	H1	OK		
	17:20:476	4:16:239													OK	
241:14:17:22:226			28358-7	L	LMB PT	AUTO	X	4	5	MA	6	X	H1	OK		
	18:26:223	1: 3:997													OK	
241:14:18:27:973			28358-8	S	LMB PT	AUTO	X	4	5	MA	6	X	H1	OK		
	35:32:420	17: 4:447													OK	
241:14:35:35:920			28359-1	L	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK		
	39:28:408	3:52:488													OK	
241:15:55:16:738			28359-2	L	BORE	AUTO	X	4	5	ML	6	X	H1	OK		
	55:17:236	0: 0:500													OK	
241:15:55:18:988			28359-3	S	BORE	AUTO	X	4	5	ML	6	X	H1	OK		
	55:21:408	0: 2:500													OK	
241:15:55:23:237			28359-4	L	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	55:24:487	0: 1:250													OK	
241:15:55:26:237			28359-5	S	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	55:36:487	0:10:250													OK	
241:15:55:37:987			28359-6	L	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	55:43:236	0: 5:249													OK	
241:15:55:44:736			28359-7	S	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	56:24:984	0:40:248													OK	
241:15:56:26:734			28359-8	L	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	56:46:733	0:19:999													OK	
241:15:56:50:233			28360-1	S	BORE	AUTO	X	4	5	GS	6	X	H1	OK		
	59:30:189	2:39:956													OK	
241:16: 3: 5:178			28360-2	S	BORE	MAN	X	4	5	MA	6	X	H1	OK		
	8:24:165	5:18:987													OK	
241:16:11:26:407			28360-3	S	BORE	AUTO	X	X	5	MA	6	X	H1	OK		
	11:28:907	0: 2:500													OK	
241:16:11:30:657			28360-4	L	BORE	AUTO	X	X	5	MA	6	X	H1	OK		
	11:31:157	0: 0:500														

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FRAME COUNT	----- EPC POINT ----- (ARCHINS) (ARCSEC)	----- MAX PT EXC ----- (ARCHINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCHINS)	ALTITUDE (KM)	Z (M) (KM)	ORBIT NO.						
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN				
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28358-6	-883.00	-940.00	56.30				17.0		26.25 55.00	2426.60	2062.30	442.40	250.50	1544
28358-5	-883.00	-940.00	56.30	.00	.00	.00	18.0	.00	26.25 55.00	2426.80	1916.70	443.40	314.10	1544
28358-7	-881.00	-940.00	56.30	.00	.00	.00	18.0	1.00	26.25 55.00	2425.80	2569.00	437.60	-66.50	1544
28358-8	-881.00	-940.00	56.30	.00	.00	.00	18.0	.00	26.25 55.00	2425.60	2670.80	436.30	-148.00	1544
28359-1	-877.00	-940.00	56.30	.00	.00	.00	18.0	1.00	26.25 55.00	2424.70	2021.80	424.90	241.40	1544
28359-2	2165.00	-100.00	206.20	.00	.00	.00	.0	.00	26.25 55.00	2408.30	2945.70	431.50	-398.80	1545
28359-3	2165.00	-100.00	206.20	.00	.00	.00	.0	.00	26.25 55.00	2408.30	2945.70	431.50	-398.80	1545
28359-4	2165.00	-100.00	206.20	.00	.00	.00	.0	.00	26.25 55.00	2408.30	2945.70	431.50	-398.80	1545
28359-5	2165.00	-100.00	206.20	.00	.00	.00	.0	.00	26.25 55.00	2408.30	2945.70	431.50	-398.80	1545
28359-6	2165.00	-100.00	206.20	.00	.00	.00	.0	.00	26.25 55.00	2408.30	2945.70	431.50	-398.80	1545
28359-7	2165.00	-100.00	206.20	.00	.00	.00	.0	.00	26.25 55.00	2408.30	2945.70	431.50	-398.80	1545
28359-8	2165.00	-100.00	206.20	.00	.00	.00	.0	.00	26.25 55.00	2408.20	2975.50	430.30	-429.80	1545
28360-1	2165.00	-100.00	206.20	.00	.00	.00	.0	.00	26.25 55.00	2408.20	2975.50	430.30	-429.80	1545
28360-2	2167.00	-100.00	206.20	.00	.00	.00	.0	.00	26.25 55.00	2408.00	2684.50	425.00	-181.80	1545
28360-3	2168.00	-96.20	128.70	.00	.00	.00	.0	.00	26.25 55.00	2407.30	1604.70	426.20	384.40	1545
28360-4	2168.00	-96.20	128.70	.00	.00	.00	.0	.00	26.25 55.00	2407.30	1604.70	426.20	384.40	1545
28360-5	2168.00	-96.20	128.70	.00	.00	.00	.0	.00	26.25 55.00	2407.30	1604.70	426.20	384.40	1545
28360-6	2168.00	-96.20	128.70	.00	.00	.00	.0	.00	26.25 55.00	2407.30	1604.70	426.20	384.40	1545
28360-7	2168.00	-96.20	128.70	.00	.00	.00	.0	.00	26.25 55.00	2407.30	1604.70	426.20	384.40	1545
28360-8	2169.00	-96.20	128.70	.00	.00	.00	.0	.00	26.25 55.00	2407.20	1441.90	426.90	413.30	1545

5-22-75 AT 2 HOURS 55 MINS 48 SECS

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52828-EDB

INSTRUMENT OPERATION

5-22-75

AT 2 HOURS 55 MINS 48 SECS

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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	----- (ARCMINS)	MAX PT EXC (ARCSEC)	----- (ARCMINS)	LIMB OFF (ARCSEC)	----- (ARCMINS)	BIAS (ARCSEC)	----- (ARCMINS)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.	
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28361-1	2169.00	-96.20	128.70				.0		26.25 55.00	2407.20	1441.90	426.90	413.30	1545
28361-2	2170.00	-96.20	128.70	.00	.00	.00	.0	.00	26.25 55.00	2406.50	877.50	429.40	394.10	1545
28361-3	-6573.00	-75.00	-38.70	.00	.00	.00	.0	.00	26.25 55.00	2391.20	2987.20	430.50	-440.60	1546
28361-4	-6573.00	-75.30	-38.70	.00	.00	.00	.0	.00	26.25 55.00	2391.20	2987.20	430.50	-440.60	1546
28361-5	-6573.00	-75.00	-38.70	.00	.00	.00	.0	.00	26.25 55.00	2391.10	3003.20	429.40	-458.60	1546
28361-6	-6573.00	-75.00	-38.70	.00	.00	.00	.0	.00	26.25 55.00	2391.10	3003.20	429.40	-458.60	1546
28361-7	-6572.00	-75.00	-38.70	.00	.00	.00	.0	.00	26.25 55.00	2391.10	3003.20	429.40	-458.60	1546
28361-8	-6572.00	-75.00	-38.70	.00	.00	.00	.0	.00	26.25 55.00	2391.10	3003.20	429.40	-458.60	1546
28362-1	-6572.00	-75.00	-38.70	.00	.00	.00	.0	.00	26.25 55.00	2391.10	3000.50	428.40	-458.10	1546
28362-2	-6572.00	-75.00	-38.70	.00	.00	.00	.0	.00	26.25 55.00	2391.10	3000.50	428.40	-458.10	1546
28362-3	-7306.00	-103.70	-31.30	.00	.00	.00	.0	.00	26.25 55.00	2390.80	2250.00	424.60	122.10	1546
28362-4	-7306.00	-103.70	-31.30	.00	.00	.00	.0	.00	26.25 55.00	2390.80	2250.00	424.60	122.10	1546
28362-5	-7306.00	-103.70	-31.30	.00	.00	.00	.0	.00	26.25 55.00	2390.80	2250.00	424.60	122.10	1546
28362-6	-7306.00	-103.70	-31.30	.00	.00	.00	.0	.00	26.25 55.00	2390.80	2250.00	424.60	122.10	1546
28362-7	-7306.00	-103.70	-31.30	.00	.00	.00	.0	.00	26.25 55.00	2390.80	2250.00	424.60	122.10	1546
28362-8	-7306.00	-103.70	-31.30	.00	.00	.00	.0	.00	26.25 55.00	2390.70	2109.20	424.80	199.20	1546
28363-1	-7306.00	-103.70	-31.30	.00	.00	.00	.0	.00	26.25 55.00	2390.70	2109.20	424.80	199.20	1546
28363-2	-7305.00	-103.70	-31.30	.00	.00	.00	.0	.00	26.25 55.00	2390.40	1808.00	425.60	327.10	1546
28363-3	-4136.00	51.00	-112.00	.00	.00	.00	.0	.00	26.25 55.00	2374.00	2997.80	430.80	-199.80	1547
28363-4	-4136.00	51.00	-112.00	.00	.00	.00	.0	.00	26.25 55.00	2374.30	2997.80	430.80	-199.80	1547

5-22-75 AT 2 HOURS 55 MINS 48 SECS

----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----								TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G+										OP	CL
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
241:19: 2:20:950			28363-5	L		AUTO	X	X	5	GS	6	X	H1	XX	
	2:22:200	0: 1:250													OK
241:19: 2:23:950			28363-6	S		AUTO	X	X	5	GS	6	X	H1	XX	
	2:33:950	0:10: 0													OK
241:19: 2:35:700			28363-7	L		AUTO	X	X	5	GS	6	X	H1	XX	
	2:40:950	0: 5:250													OK
241:19: 2:42:700			28363-8	S		AUTO	X	X	5	GS	6	X	H1	XX	
	3:22:950	0:40:250													OK
241:19: 3:24:950			28364-1	L		AUTO	X	X	5	GS	6	X	H1	XX	
	3:44:950	0:20: 0													OK
241:19: 3:46:700			28364-2	S		AUTO	X	X	5	GS	6	X	H1	XX	
	4:23:700	2:40: 0													OK
241:20:18:57:200			28364-3	S	LMB PT	AUTO S	X	X	5		6	X	H1	OK	
	18:59:700	0: 2:500													OK
241:20:19: 1:450			28364-4	L	LMB PT	AUTO S	X	X	5		6	X	H1	OK	
	19: 1:950	0: 0:500													OK
241:20:19: 3:700			28364-5	S	LMB PT	AUTO S	X	X	5		6	X	H1	OK	
	19:13:700	0:10: 0													OK
241:20:19:15:450			28364-6	L	LMB PT	AUTO S	X	X	5		6	X	H1	OK	
	19:16:700	0: 1:250													OK
241:20:19:18:450			28364-7	S	LMB PT	AUTO S	X	X	5	GS	6	X	H1	OK	
	19:58:700	0:40:250													OK
241:20:20: 0:200			28364-8	L	LMB PT	AUTO S	X	X	5	M3	6	X	H1	OK	
	20: 5:450	0: 5:250													OK
241:20:20: 8:950			28365-1	S	LMB PT	AUTO S	X	X	5	M3	6	X	H1	OK	
	22:48:950	2:40: 0													OK
241:20:22:50:700			28365-2	L	LMB PT	AUTO S	X	X	5	M3	6	X	H1	OK	
	23:10:700	0:20: 0													OK
241:20:23:12:450			28365-3	S	LMB PT	AUTO S	X	X	5	M3	6	X	H1	OK	
	23:14:950	0: 2:500													OK
241:20:23:16:700			28365-4	L	LMB PT	AUTO S	X	X	5	M3	6	X	H1	OK	
	23:17:200	0: 0:500													OK
241:20:23:18:700			28365-5	S	LMB PT	AUTO S	X	X	5	M3	6	X	H1	OK	
	23:28:950	0:10:250													OK
241:20:23:30:700			28365-6	L	LMB PT	AUTO S	X	X	5	M3	6	X	H1	OK	
	23:31:950	0: 1:250													OK
241:20:23:33:700			28365-7	S	LMB PT	AUTO S	X	X	5	M3	6	X	H1	OK	
	24:13:700	0:40: 0													OK
241:20:24:15:450			28365-8	L	LMB PT	AUTO S	X	X	5	M3	6	X	H1	OK	
	24:20:700	0: 5:250													OK

S0828-EDB

INSTRUMENT OPERATION

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AT 2 HOURS 55 MINS 48 SECS

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FRAME COUNT	----- EPG POINT ----- (ARCMINS) (ARCSEC)	---- MAX PT EXC ---- (ARCMINS) (ARCSEC)			LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)		ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.		
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY			-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)
28363-5	-4136.00	51.00	-112.00				.0		26.25	55.00	2374.00	2997.80	430.80 -312.90 1547
28363-6	-4136.00	51.00	-112.00	.00	.00	.80	.0	.00	26.25	55.00	2374.30	2997.80	430.80 -369.60 1547
28363-7	-4136.00	51.00	-112.00	.00	.00	.00	.0	.00	26.25	55.00	2374.30	3018.30	429.70 441.80 1547
28363-8	-4136.00	51.00	-112.00	.00	.00	.00	.0	.00	26.25	55.00	2374.00	3018.30	429.70 311.70 1547
28364-1	-4136.00	51.00	-112.00	.00	.00	.00	.0	.00	26.25	55.00	2374.00	3018.30	429.70 354.20 1547
28364-2	-4136.00	51.00	-112.00	.00	.00	.00	.0	.00	26.25	55.00	2373.90	3020.00	428.70 354.20 1547
28364-3	-919.00	975.00	51.20	.00	.00	.00	-12.0	.00	26.25	55.00	2360.50	970.60	448.00 425.10 1547
28364-4	-919.00	975.00	51.20	.00	.00	.00	-12.0	.00	26.25	55.00	2360.10	982.90	447.60 426.70 1547
28364-5	-919.00	975.00	51.20	.00	.00	.00	-12.0	.00	26.25	55.00	2360.10	989.30	447.60 427.70 1547
28364-6	-919.00	975.00	51.20	.00	.00	.00	-12.0	.00	26.25	55.00	2360.10	1023.00	447.60 432.50 1547
28364-7	-919.00	975.00	51.20	.00	.00	.00	-12.0	.00	26.25	55.00	2360.10	1031.60	447.60 433.60 1547
28364-8	-918.00	975.00	51.20	.00	.00	.00	-12.0	.00	26.25	55.00	2359.80	1151.20	447.20 444.30 1547
28365-1	-918.00	975.00	51.20	.00	.00	.00	-12.0	.00	26.25	55.00	2359.80	1175.90	447.20 445.50 1547
28365-2	-918.00	975.00	51.20	.00	.00	.00	-12.0	.00	26.25	55.00	2359.10	1486.70	445.90 429.60 1547
28365-3	-917.00	975.00	51.20	.00	.00	.00	-4.0	.00	26.25	55.00	2358.80	1649.90	445.10 398.60 1547
28365-4	-917.00	975.00	51.20	.00	.00	.00	-4.0	.00	26.25	55.00	2358.80	1649.90	445.10 398.60 1547
28365-5	-917.00	975.00	51.20	.00	.00	.00	-4.0	.00	26.25	55.00	2358.80	1649.90	445.10 398.60 1547
28365-6	-917.00	975.00	51.20	.00	.00	.00	-4.0	.00	26.25	55.00	2358.80	1649.90	445.10 398.60 1547
28365-7	-917.00	975.00	51.20	.00	.00	.00	-4.0	.00	26.25	55.00	2358.80	1649.90	445.10 398.60 1547
28365-8	-917.00	975.00	51.20	.00	.00	.00	-4.0	.00	26.25	55.00	2358.60	1809.00	444.20 353.30 1547
				.00	.00	.00		.00	26.25	55.00			

AT 2 HOURS 55 MINS 48 SECS

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[illegible]

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INSTRUMENT OPERATION

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FRAME	----- EPC POINT -----			----- MAX PT EXC -----			LIMB OFF	--NRL BIAS--		ANGLE		ALTITUDE	Z(M)	ORBIT
COUNT	(ARCMINS)	(ARCSEC)		(ARCMINS)	(ARCSEC)			(ARCSEC)		(ARCMINS)		(KM)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28366-1	-917.00	975.00	51.20				-4.0	26.25	55.00	2358.60	1809.00	444.20	353.30	1547
28366-2	-916.00	975.00	51.20	.00	.00	.80	-4.0	26.25	55.00	2357.80	2254.40	440.90	148.00	1547
28366-3	-916.00	975.00	51.20	.00	.00	.00	-2.0	26.25	55.00	2357.80	2254.40	440.90	148.00	1547
28366-4	-916.00	975.00	51.20	.00	.00	.80	-2.0	26.25	55.00	2357.80	2254.40	440.90	148.00	1547
28366-5	-916.00	975.00	51.20	.00	.00	.00	-2.0	26.25	55.00	2357.80	2254.40	440.90	148.00	1547
28366-6	-916.00	975.00	51.20	.00	.00	.00	-2.0	26.25	55.00	2357.80	2254.40	440.90	148.00	1547
28366-7	-916.00	975.00	51.20	.00	.00	.80	-2.0	26.25	55.00	2357.80	2254.40	440.90	148.00	1547
28366-8	-916.00	975.00	51.20	.00	.00	.00	-2.0	26.25	55.00	2357.60	2389.00	439.70	63.40	1547
28367-1	-916.00	975.00	51.20	.00	.00	.00	-2.0	26.25	55.00	2357.60	2389.00	439.70	63.40	1547
28367-2	-915.00	975.00	51.20	.00	.00	.80	-2.0	26.25	55.00	2357.10	2735.10	436.00	-201.40	1547
28367-3	-915.00	975.00	51.20	.00	.00	.00	.0	26.25	55.00	2357.10	2735.10	436.00	-201.40	1547
28367-4	-915.00	975.00	51.20	.00	.00	.80	.0	26.25	55.00	2357.10	2735.10	436.00	-201.40	1547
28367-5	-915.00	975.00	51.20	.00	.00	.80	.0	26.25	55.00	2357.10	2735.10	436.00	-201.40	1547
28367-6	-915.00	975.00	51.20	.00	.00	.80	.0	26.25	55.00	2357.00	2826.40	434.70	-282.70	1547
28367-7	-915.00	975.00	51.20	.00	.00	.80	.0	26.25	55.00	2357.00	2826.40	434.70	-282.70	1547
28367-8	-915.00	975.00	51.20	.00	.00	.80	.0	26.25	55.00	2357.00	2826.40	434.70	-282.70	1547
28368-1	-915.00	975.00	51.20	.00	.00	.80	.0	26.25	55.00	2357.00	2826.40	434.70	-282.70	1547
28368-2	-914.00	975.00	51.20	.00	.00	.00	.0	26.25	55.00	2356.80	3007.40	431.00	-459.20	1547
28368-3	-914.00	975.00	51.20	.00	.00	.80	2.0	26.25	55.00	2356.80	3007.40	431.00	-459.20	1547
28368-4	-914.00	975.00	51.20	.00	.00	.80	2.0	26.25	55.00	2356.70	3032.50	429.90	-486.30	1547
				.00	.00	.80		26.25	55.00					

50823-EDR

INSTRUMENT OPERATION

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[illegible]

FRAME COUNT	----- EPG POINT ----- (ARCMIN)	(ARCSEC)	----- MAX PT EXC ----- (ARCMIN)	(ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMIN)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.					
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXBI	GYBI	-BETA- OPEN	-Z- OPEN					
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)		
28368-5	-914.00	975.00	51.20				2.0		26.25	55.00	2356.70	3032.50	429.90	-486.30	1547
28368-6	-914.00	975.00	51.20	.00	.00	.80	2.0	.00	26.25	55.00	2356.70	3032.50	429.90	-486.30	1547
28368-7	-914.00	975.00	51.20	.00	.00	.80	2.0	.00	26.25	55.00	2356.70	3038.60	428.90	-494.70	1547
28368-8	-913.00	975.00	51.20	.00	.00	.80	2.0	.00	26.25	55.00	2356.60	2993.60	427.10	-454.30	1547
28369-1	-913.00	975.00	51.20	.00	.00	.80	2.0	.00	26.25	55.00	2356.60	2943.60	426.40	-407.80	1547
28369-2	-910.00	975.00	51.20	.00	.00	.80	2.0	.00	26.25	55.00	2355.80	1576.80	426.70	390.90	1548
28369-3	-909.00	975.00	51.20	.00	.00	.80	4.0	.00	26.25	55.00	2355.40	1078.00	428.20	421.90	1548
28369-4	-909.00	975.00	51.20	.00	.00	.80	4.0	.00	26.25	55.00	2355.10	1043.70	429.10	419.40	1548
28369-5	-909.00	975.00	51.20	.00	.00	.80	4.0	.00	26.25	55.00	2355.10	1031.10	429.10	418.00	1548
28369-6	-909.00	975.00	51.20	.00	.00	.80	4.0	.00	26.25	55.00	2355.10	909.50	429.10	400.00	1548
28369-7	-909.00	975.00	51.20	.00	.00	.80	4.0	.00	26.25	55.00	2354.90	874.90	430.00	394.00	1548
28369-8	-908.00	975.00	51.20	.00	.00	.80	4.0	.00	26.25	55.00	2354.30	397.00	431.80	232.50	1548
28370-1	-908.00	975.00	51.20	.00	.00	.80	5.0	.00	26.25	55.00	2354.00	266.90	432.80	166.10	1548
28370-2	-1021.00	978.70	51.20	.00	.00	.80	4.0	1.00	26.25	55.00	2342.90	1098.90	447.80	441.00	1548
28370-3	-1020.00	978.70	51.20	.00	.00	.80	6.0	.00	26.25	55.00	2341.90	1454.60	446.00	433.90	1548
28370-4	-1020.00	978.70	51.20	.00	.00	.80	6.0	.00	26.25	55.00	2341.90	1454.60	446.00	433.90	1548
28370-5	-1020.00	978.70	51.20	.00	.00	.80	6.0	.00	26.25	55.00	2341.90	1454.60	446.00	433.90	1548
28370-6	-1020.00	978.70	51.20	.00	.00	.80	6.0	.00	26.25	55.00	2341.60	1619.40	445.20	405.60	1548
28370-7	-1020.00	978.70	51.20	.00	.00	.80	6.0	.00	26.25	55.00	2341.60	1619.40	445.20	405.60	1548
28370-8	-1019.00	978.70	51.20	.00	.00	.80	6.0	.00	26.25	55.00	2340.80	2087.90	442.30	238.20	1548

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FRAME COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE Z(M) (KM) (KM)	ORBIT NO.							
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		GXBI	GYBI	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
2B371-1	-1016.00	978.70	51.20				6.0		26.25 55.00	2340.60	2232.70	441.20	160.70	1548
2B371-2	-1016.00	978.70	51.20	.00	.00	.00	6.0	.00	26.25 55.00	2339.40	3056.20	429.10	-511.90	1548
2B371-3	-1015.00	978.70	51.20	.00	.00	.00	8.0	.00	26.25 55.00	2339.30	2973.30	426.50	-435.90	1548
2B371-4	-1015.00	978.70	51.20	.00	.00	.00	8.0	.00	26.25 55.00	2339.30	2973.30	426.50	-435.90	1548
2B371-5	-1015.00	978.70	51.20	.00	.00	.00	8.0	.00	26.25 55.00	2339.30	2973.30	426.50	-435.90	1548
2B371-6	-1015.00	978.70	51.20	.00	.00	.00	8.0	.00	26.25 55.00	2339.30	2909.40	425.90	-376.70	1548
2B371-7	-1015.00	978.70	51.20	.00	.00	.00	8.0	.00	26.25 55.00	2339.30	2909.40	425.90	-376.70	1548
2B371-8	-1014.00	978.70	51.20	.00	.00	.00	8.0	.00	26.25 55.00	2339.20	2627.10	424.80	-136.20	1548
2B372-1	-1014.00	978.70	51.20	.00	.00	.00	8.0	.00	26.25 55.00	2339.10	2507.80	424.70	-46.30	1548
2B372-2	-991.00	983.70	52.50	.00	.00	.00	9.0	.00	26.25 55.00	2326.00	755.30	448.20	376.90	1549
2B372-3	-990.00	983.70	52.50	.00	.00	.00	12.0	1.00	26.25 55.00	2325.30	1225.30	447.40	447.20	1549
2B372-4	-990.00	983.70	52.50	.00	.00	.00	12.0	.00	26.25 55.00	2325.00	1276.20	446.80	446.70	1549
2B372-5	-990.00	983.70	52.50	.00	.00	.00	12.0	.00	26.25 55.00	2325.00	1292.60	446.80	446.30	1549
2B372-6	-990.00	983.70	52.50	.00	.00	.00	12.0	.00	26.25 55.00	2324.70	1421.90	446.20	437.60	1549
2B372-7	-990.00	983.70	52.50	.00	.00	.00	12.0	.00	26.25 55.00	2324.70	1421.90	446.20	437.60	1549
2B372-8	-989.00	983.70	52.50	.00	.00	.00	12.0	.00	26.25 55.00	2323.50	2062.90	442.50	250.40	1549
2B373-1	-989.00	983.70	52.50	.00	.00	.00	12.0	.00	26.25 55.00	2323.10	2350.30	440.20	88.90	1549
2B373-2	-985.00	983.70	52.50	.00	.00	.00	12.0	.00	26.25 55.00	2323.10	2350.30	440.20	88.90	1549
2B373-3	-983.00	983.70	52.50	.00	.00	.00	20.0	.00	26.25 55.00	2321.50	1987.10	425.40	257.70	1549
2B373-4	-983.00	983.70	52.50	.00	.00	.00	20.0	.00	26.25 55.00	2321.50	1987.10	425.40	257.70	1549
				.00	.00	.00		.00	26.25 55.00					

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FRAME COUNT	----- EFC (ARCMINS)	PCINT (ARCSEC)	----- (ARCMINS)	MAX PT (ARCMINS)	EXC (ARCSEC)	----- (ARCMINS)	LIMB OFF (ARCSEC)	----- (ARCSEC)	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY			GXB1	GYB1	-BETA- OPEN	-Z- OPEN	
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)			(Y)	(Z)	(AA) (BB) (CC)
2B373-5	-983.00	983.70	52.50				20.0		26.25	55.00	2321.50	1987.10	425.40 257.70 1549
2B373-6	-983.00	983.70	52.50	.00	.00	.00	20.0	.00	26.25	55.00	2321.40	1829.70	425.90 320.20 1549
2B373-7	-983.00	983.70	52.50	.00	.00	.00	20.0	.00	26.25	55.00	2321.20	1667.40	426.50 369.90 1549
2B373-8	-933.00	983.70	52.50	.00	.00	.00	21.0	.00	26.25	55.00	2320.40	887.80	429.60 396.30 1549
2B374-1	-983.00	983.70	52.50	.00	.00	.00	22.0	1.00	26.25	55.00	2320.10	687.60	430.50 346.20 1549
2B374-2	-793.00	995.00	52.50	.00	.00	.00	20.0	2.00	26.25	55.00	2309.50	457.70	448.50 266.60 1550
2B374-3	-4173.00	-357.50	153.70	.00	.00	.00	.0	1.00	26.25	55.00	2287.20	2505.50	424.60 -44.80 1551
2B374-4	-4173.00	-357.50	153.70	.00	.00	.00	.0	.00	26.25	55.00	2286.80	1919.80	425.70 286.20 1551
2B374-5	-1116.00	-852.50	1.30	.00	.00	.00	.0	.00	26.25	55.00	2285.60	794.80	430.20 376.00 1551
2B374-6	-1116.00	-852.50	1.30	.00	.00	.00	.0	.00	26.25	55.00	2285.30	592.00	431.10 314.20 1551
2B374-7	-1733.00	-806.20	136.70	.00	.00	.00	.0	.00	26.25	55.00	2187.80	230.30	448.70 32.60 1557
2B374-8	191.00	25.00	1041.20	.00	.00	.00	.0	.00	26.25	55.00	2183.20	2848.00	435.30 300.50 1557
2B375-1	193.00	25.00	1045.00	.00	.00	.00	.0	.00	26.25	55.00	2182.70	3204.90	427.30 670.80 1557
2B375-2	194.00	26.20	1045.00	.00	.00	.00	.0	.00	26.25	55.00	2182.50	2627.40	424.30 137.40 1557
2B375-3	196.00	30.00	1045.00	.00	.00	.00	.0	.00	26.25	55.00	2181.60	1521.40	427.30 402.00 1557
2B375-4	196.00	28.70	1045.00	.00	.00	.00	.0	.00	26.25	55.00	2181.60	1521.40	427.30 402.00 1557
2B375-5	199.00	31.30	1045.00	.00	.00	.00	.0	.00	26.25	55.00	2179.70	244.40	433.70 153.80 1557
2B375-6	2227.00	983.70	190.00	.00	.00	.00	.0	.00	26.25	55.00	2153.00	106.50	448.80 71.70 1558
2B375-7	2231.00	983.70	190.00	.00	.00	.00	.0	.00	26.25	55.00	2148.00	2935.90	434.40 383.30 1559
2B375-8	2233.00	983.70	190.00	.00	.00	.00	.0	.00	26.25	55.00	2146.90	1956.40	425.70 271.30 1559
				.00	.00	.00		.00	26.25	55.00			

242:15:28:36:558			28376-1	L	BORE	AUTO	X	X	5	MS	6	X	H1	OK	
	28:37: 58	0: 0:500													OK
242:15:28:38:808			28376-2	S	BORE	AUTO	X	X	5	GS	6	X	H1	OK	
	28:49: 58	0:10:250													OK
242:15:28:50:808			28376-3	L	BORE	AUTO	X	X	5	GS	6	X	H1	OK	
	28:52: 50	0: 1:250													OK
242:15:28:53:808			28376-4	S	BORE	AUTO	X	X	5	GS	6	X	H1	OK	
	29:33:808	0:40: 0													OK
242:15:29:35:558			28376-5	L	BORE	AUTO	X	X	5	ML	6	X	H1	OK	
	29:40:558	0: 5: 0													OK
242:15:29:42:308			28376-6	S	BORE	AUTO	X	X	5	ML	6	X	H1	OK	
	32:22:308	2:40: 0													OK
242:15:32:24: 58			28376-7	L	BORE	AUTO	X	X	5	GS	6	X	H1	OK	
	32:43:806	0:19:750													OK
242:16:55:37:558			28376-8	S		MAN	X	X	5	GS	6	X	H1	OK	
	58:16:815	2:39:257													OK
242:17: 7:46:205			28377-1	S		AUTO	X	X	5	MA	6	X	H1	OK	
	7:48:872	0: 2:667													OK
242:17: 7:50:539			28377-2	L		AUTO	X	X	5	MA	6	X	H1	OK	
	7:51: 39	0: 0:500													OK
242:17: 7:52:808			28377-3	S		AUTO	X	X	5	MA	6	X	H1	OK	
	8: 2:867	0:10: 59													OK
242:17: 8: 4:534			28377-4	L		AUTO	X	X	5	MA	6	X	H1	OK	
	8: 5:950	0: 1:416													OK
242:17: 8: 7:534			28377-5	S		AUTO	X	X	5	MA	6	X	H1	OK	
	8:47:698	0:40:164													OK
242:17: 8:49:532			28377-6	L		AUTO	X	X	5	GS	6	X	H1	OK	
	8:54:699	0: 5:167													OK
242:17: 8:56:366			28377-7	S		AUTO	X	X	5	GS	6	X	H1	OK	
	11:36:444	2:40: 78													OK
242:17:11:36:111			28377-8	L		AUTO	X	X	5	MA	6	X	H1	OK	
	11:58:194	0:20: 83													OK
242:19:39:37:807			28378-1	S		MAN	X	4	5	GS	6	X	H1	OK	
	39:57:807	0:20: 0													OK
242:20:17:26: 57			28378-2	S		AUTO	X	X	5	ML	6	X	H1	OK	
	17:28:807	0: 2:750													OK
242:20:17:30:307			28378-3	L		AUTO	X	X	5	ML	6	X	H1	OK	
	17:30:807	0: 0:500													OK
242:20:17:32:557			28378-4	S		AUTO	X	X	5	ML	6	X	H1	OK	
	17:42:504	0: 9:947													

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FRAME	----- EPC POINT -----			---- MAX PT EXC ----			LIMB OFF	--NRL BIAS--		ANGLE		ALTITUDE	Z(M)	ORBIT
COUNT (ARCMINS)	(ARCSEC)			(ARCMINS)	(ARCSEC)			(ARCSEC)		(ARCMINS)		(KM)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28376-1	2230.60	983.70	190.00				.0	26.25	55.00	2146.90	956.40	425.70	271.30	1559
28376-2	2230.60	983.70	190.00	.00	.00	.00	.0	26.25	55.00	2146.90	956.40	425.70	271.30	1559
28376-3	2231.00	983.70	190.00	.00	.00	.00	.0	26.25	55.00	2146.70	1786.70	426.30	-472.00	1559
28376-4	2231.00	983.70	190.00	.00	.00	.00	.0	26.25	55.00	2146.70	1786.70	426.30	-472.00	1559
28376-5	2230.60	983.70	190.00	.00	.00	.00	.0	26.25	55.00	2146.70	786.70	426.30	335.20	1559
28376-6	2230.60	983.70	190.00	.00	.00	.00	.0	26.25	55.00	2146.70	786.70	426.30	335.20	1559
28376-7	2230.60	983.70	190.00	.00	.00	.00	.0	26.25	55.00	2146.10	256.10	420.70	428.40	1559
28376-8	-4353.00	-11.20	3.80	.00	.00	.00	.0	26.25	55.00	2129.80	875.60	424.30	348.80	1560
28377-1	-64.00	185.00	200.00	.00	.00	.00	.0	26.25	55.00	2128.00	934.80	430.30	405.40	1560
28377-2	-64.00	185.00	200.00	.00	.00	.00	.0	26.25	55.00	2128.00	934.80	430.30	405.40	1560
28377-3	-64.00	185.00	200.00	.00	.00	.00	.0	26.25	55.00	2128.00	934.80	430.30	405.40	1560
28377-4	-64.00	185.00	200.00	.00	.00	.00	.0	26.25	55.00	2127.70	749.00	431.30	364.70	1560
28377-5	-64.00	185.00	200.00	.00	.00	.00	.0	26.25	55.00	2127.70	749.00	431.30	364.70	1560
28377-6	-64.00	185.00	200.00	.00	.00	.00	.0	26.25	55.00	2127.70	749.00	431.30	364.70	1560
28377-7	-64.00	185.00	200.00	.00	.00	.00	.0	26.25	55.00	2127.70	749.00	431.30	364.70	1560
28377-8	-64.70	185.00	200.00	.00	.00	.00	.0	26.25	55.00	2126.80	186.00	434.10	120.00	1560
28378-1	17.00	-705.00	-223.70	.00	.00	.00	.0	26.25	55.00	2097.40	1327.20	446.50	444.80	1561
28378-2	1829.00	1002.50	100.00	.00	.00	.00	.0	26.25	55.00	2091.30	190.10	434.00	122.50	1562
28378-3	1829.00	1002.50	100.00	.00	.00	.00	.0	26.25	55.00	2091.30	176.60	434.00	114.50	1562
28378-4	1829.00	1002.50	100.00	.00	.00	.00	.0	26.25	55.00	2091.30	169.50	434.00	110.20	1562
				.00	.00	.00	.0	26.25	55.00					

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FRAME	----- EPC POINT -----	----	MAX PT EXC. ----	LIMB OFF	----	NRL BIAS--	ANGLE	ALTITUDE	Z(H)	ORBIT					
COUNT (ARCHINS)	(ARCSEC)		(ARCHINS)	(ARCSEC)		(ARCSEC)	(ARCHINS)	(KM)	(KM)	NO.					
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY									
							GXBI	GYBI	-BETA- OPEN	-Z- OPEN					
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)		
28378-5	1829.00	1002.50	100.00				.0		26.25	55.00	2091.30	132.40	434.00	87.40	1562
28378-6	1829.00	1002.60	100.00	.00	.00	.80	.0	.00	26.25	55.00	2091.30	123.30	434.00	81.70	1562
28378-7	1829.00	1002.50	100.00	.00	.00	.80	.0	.00	26.25	55.00	2091.00	-9.00	434.80	434.80	1562
28378-8	1829.00	1002.50	100.00	.00	.00	.80	.0	.00	26.25	55.00	2091.00	-30.40	434.80	434.50	1562
28379-1	1829.00	1002.50	100.00	.00	.00	.80	.0	.00	26.25	55.00	2089.90	-546.50	437.20	351.30	1562
28379-2	-38.00	218.80	201.20	.00	.00	.80	.0	.00	26.25	55.00	2081.60	174.20	448.90	115.10	1562
28379-3	-38.00	218.80	201.20	.00	.00	.80	.0	.00	26.25	55.00	2081.60	181.00	448.90	119.30	1562
28379-4	-38.00	218.80	201.20	.00	.00	.80	.0	.00	26.25	55.00	2081.60	194.60	448.90	127.60	1562
28379-5	-38.00	218.80	201.20	.00	.00	.80	.0	.00	26.25	55.00	2081.60	204.10	448.90	133.20	1562
28379-6	-38.00	218.80	201.20	.00	.00	.80	.0	.00	26.25	55.00	2081.60	241.40	448.90	155.10	1562
28379-7	-38.00	218.80	201.20	.00	.00	.80	.0	.00	26.25	55.00	2081.60	263.20	448.90	167.50	1562
28379-8	-38.00	218.80	201.20	.00	.00	.80	.0	.00	26.25	55.00	2081.20	395.00	448.80	237.00	1562
28380-1	-38.00	218.80	201.20	.00	.00	.80	.0	.00	26.25	55.00	2081.20	468.80	448.80	271.80	1562
28380-2	-44.00	225.00	201.20	.00	.00	.80	.0	.00	26.25	55.00	2074.70	960.90	430.10	409.50	1563
28380-3	-44.00	225.00	201.20	.00	.00	.80	.0	.00	26.25	55.00	2074.70	946.90	430.10	407.30	1563
28380-4	-44.00	225.00	201.20	.00	.00	.80	.0	.00	26.25	55.00	2074.70	940.60	430.10	406.30	1563
28380-5	-44.00	225.00	201.20	.00	.00	.80	.0	.00	26.25	55.00	2074.70	903.20	430.10	399.70	1563
28380-6	-44.00	225.00	201.20	.00	.00	.80	.0	.00	26.25	55.00	2074.70	893.90	430.10	397.90	1563
28380-7	-44.00	225.00	201.20	.00	.00	.80	.0	.00	26.25	55.00	2074.50	762.90	431.00	368.30	1563
28380-8	-44.00	225.00	201.20	.00	.00	.80	.0	.00	26.25	55.00	2074.50	741.70	431.00	362.50	1563

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50828-ED8

INSTRUMENT OPERATION

5-22-75

AT

2 HOURS 55 MINS 48 SECS

PAGE 2- 114

FRAME COUNT	----- EPE POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.							
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN					
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)		
28381-1	-44.00	225.00	201.20				.0		26.25	55.00	2073.50	224.90	433.80	142.70	1563
28381-2	1978.00	1006.20	18.80	.00	.00	.80	35.0	.00	26.25	55.00	2060.80	1794.70	444.20	357.90	1563
28381-3	1978.00	1006.20	18.80	.00	.00	.00	35.0	.00	26.25	55.00	2060.80	1794.70	444.20	357.90	1563
28381-4	1978.00	1006.20	18.80	.00	.00	.80	35.0	.00	26.25	55.00	2060.80	1794.70	444.20	357.90	1563
28381-5	1978.00	1006.20	18.80	.00	.00	.00	35.0	.00	26.25	55.00	2060.80	1794.70	444.20	357.90	1563
28381-6	1978.00	1006.20	18.80	.00	.00	.00	35.0	.00	26.25	55.00	2060.50	1967.90	443.10	293.30	1563
28381-7	1978.00	1006.20	18.80	.00	.00	.00	34.0	1.00	26.25	55.00	2060.30	2136.60	442.00	213.70	1563
28381-8	1978.00	1006.20	18.80	.00	.00	.80	34.0	.00	26.25	55.00	2059.30	2878.20	435.70	-327.00	1563
28382-1	1978.00	1006.20	18.80	.00	.00	.00	35.0	-1.00	26.25	55.00	2058.90	3256.90	430.70	-719.60	1563
28382-2	-4180.80	23.70	25.00	.00	.00	.80	.0	1.00	26.25	55.00	2042.80	1937.20	443.30	306.00	1564
28382-3	-4180.80	23.70	25.00	.66	.00	.00	.0	.00	26.25	55.00	2042.30	2273.50	441.00	137.00	1564
28382-4	16.00	.00	571.20	.00	.00	.80	.0	.00	26.25	55.00	2028.70	-71.90	448.90	447.40	1565
28382-5	16.00	40.00	571.20	.99	77.50	.00	.0	.00	26.25	55.00	2028.30	52.60	449.00	36.50	1565
28382-6	16.00	35.00	571.20	.00	.00	.00	.0	.00	26.25	55.00	2028.30	191.30	449.00	125.60	1565
28382-7	16.00	55.00	571.20	.99	31.25	.00	.0	.00	26.25	55.00	2028.00	403.90	448.90	241.40	1565
28382-8	-1727.00	-751.20	105.00	.99	61.25	.00	.0	.00	26.25	55.00	2024.30	2408.30	440.00	51.20	1565
28383-1	-1727.00	-750.00	105.00	.99	.00	.00	.0	.00	26.25	55.00	2023.00	3109.70	424.80	-576.00	1565
28383-2	203.00	-897.50	165.00	.00	.00	.00	.0	.00	26.25	55.00	2022.80	2594.50	424.70	-111.00	1565
28383-3	410.00	-888.70	131.20	.99	.00	.80	.0	.00	26.25	55.00	1901.90	525.70	448.70	296.40	1572
28383-4	410.00	-888.70	131.20	.99	.00	.00	.0	.00	26.25	55.00	1901.20	914.30	447.90	414.90	1572
				.99	.00	.80		.00	26.25	55.00					

SQ828-EDB

INSTRUMENT OPERATION

5-22-75

AT 2 HOURS 55 MINS 48 SECS

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FRAME COUNT	----- EPC POINT ----- (ARCMINS)	(ARCSEC)	----- MAX PT EXC ----- (ARCMINS)	(ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.					
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN					
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)		
28383-5	-4197.90	22.50	25.00				.0		26.25	55.00	1897.50	3164.20	424.40	633.80	1572
28383-6	-4197.90	22.50	25.00	.00	.00	.00	.0	.00	26.25	55.00	1897.30	2903.90	424.30	374.90	1572
28383-7	-1863.00	-666.20	135.00	.00	.00	.00	.0	.00	26.25	55.00	1882.60	1260.60	446.60	446.60	1573
28383-8	1515.40	993.70	20.00	.00	.00	.00	.0	.00	26.25	55.00	1878.80	2132.60	426.10	189.30	1573
28384-1	1515.40	993.70	20.00	.00	.00	.00	.0	.00	26.25	55.00	1878.80	2132.60	426.10	189.30	1573
28384-2	1515.40	993.70	20.00	.00	.00	.00	.0	.00	26.25	55.00	1878.80	2132.60	426.10	189.30	1573
28384-3	1515.40	993.70	20.00	.00	.00	.00	.0	.00	26.25	55.00	1878.60	1951.50	426.70	274.90	1573
28384-4	1515.40	993.70	20.00	.00	.00	.00	.0	.00	26.25	55.00	1878.60	1951.50	426.70	274.90	1573
28384-5	1515.40	993.70	20.00	.00	.00	.00	.0	.00	26.25	55.00	1878.60	1951.50	426.70	274.90	1573
28384-6	1515.40	993.70	20.00	.00	.00	.00	.0	.00	26.25	55.00	1878.60	1951.50	426.70	274.90	1573
28384-7	1515.40	993.70	20.00	.00	.00	.00	.0	.00	26.25	55.00	1878.00	1388.30	429.10	421.60	1573
28384-8	1515.40	1010.00	28.70	.00	.00	.00	.0	.00	26.25	55.00	1877.70	1195.80	430.00	429.70	1573
28385-1	1515.40	1010.00	30.00	.00	.00	.00	.0	.00	26.25	55.00	1877.70	1195.80	430.00	429.70	1573
28385-2	1515.40	1010.00	30.00	.00	.00	.00	.0	.00	26.25	55.00	1877.70	1195.80	430.00	429.70	1573
28385-3	1515.40	1010.00	30.00	.00	.00	.00	.0	.00	26.25	55.00	1877.50	1000.00	430.90	416.00	1573
28385-4	1567.00	995.00	40.00	.00	.00	.00	.0	.00	26.25	55.00	1861.90	3279.00	431.40	297.00	1574
28385-5	-4146.00	95.00	-185.00	.00	.00	.00	.0	.00	26.25	55.00	1857.50	-296.30	436.60	411.30	1574
28385-6	1967.00	991.20	55.00	.00	.00	.00	.0	.00	26.25	55.00	1848.70	6.40	449.30	4.50	1574
28385-7	-1661.00	982.50	53.70	.00	.00	.00	10.0	.00	26.25	55.00	1843.30	3390.00	424.30	500.30	1575
28385-8	344.00	-947.50	56.30	.00	.00	.00	26.0	.00	26.25	55.00	1825.40	3542.90	426.00	65.50	1576
				.00	.00	.00		.00	26.25	55.00					

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S082B-EDB

INSTRUMENT OPERATION

5-22-75 AT 2 HOURS 55 MINS 48 SECS

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FRAME COUNT	----- EPG POINT ----- (ARCHINS) (ARCSEC)			---- MAX PT EXC ---- (ARCHINS) (ARCSEC)			LIMB OFF	--NRL BIAS-- (ARCSEC)		ANGLE (ARCHINS)		ALTITUDE Z(M) (KM) (KM)		ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28386-1	344.00	-947.50	56.30				25.0		26.25 55.00	1825.40	3491.60	425.40	4.10	1576
28386-2	344.00	-947.50	56.30	.00	.00	.00	25.0	.00	26.25 55.00	1825.40	3491.60	425.40	4.10	1576
28386-3	344.00	-947.50	56.30	.00	.00	.00	26.0	.00	26.25 55.00	1825.30	3416.60	424.90	915.60	1576
28386-4	344.00	-947.50	56.30	.00	.00	.00	26.0	.00	26.25 55.00	1825.30	3416.60	424.90	915.60	1576
28386-5	344.00	-947.50	56.30	.00	.00	.00	26.0	.00	26.25 55.00	1825.00	2781.00	424.50	264.00	1576
28386-6	344.00	-947.50	56.30	.00	.00	.00	27.0	.00	26.25 55.00	1824.90	2618.70	424.80	129.40	1576
28386-7	344.00	-947.50	56.30	.00	.00	.00	.0	.00	26.25 55.00	1821.10	-327.70	436.50	405.60	1576
28386-8	-1351.00	306.00	-88.70	.00	.00	.00	.0	.00	26.25 55.00	1804.30	4700.00	449.00	315.00	1577
28387-1	-1351.00	306.00	-88.70	.00	.00	.00	.0	.00	26.25 55.00	1779.60	2600.00	438.90	446.70	1577
28387-2	-1351.00	306.00	-88.70	.00	.00	.00	.0	.00	26.25 55.00	1793.40	3300.00	424.50	274.40	1577
28387-3	1.30	16.20	556.20	.00	.00	.00	.0	.00	26.25 55.00	1770.50	2917.40	424.50	-387.20	1578
28387-4	1.30	25.00	556.20	.00	16.25	.00	.0	.00	26.25 55.00	1770.40	2757.60	424.70	-243.40	1578
28387-5	1.30	1.30	558.70	.00	36.25	.00	.0	.00	26.25 55.00	1770.30	2589.60	425.10	-106.40	1578
28387-6	-4264.90	25.00	25.00	.00	67.50	26.25	.0	.00	26.25 55.00	1755.80	1216.20	446.90	446.60	1579
28387-7	-4264.90	25.00	25.00	.00	.00	.00	.0	.00	26.25 55.00	1754.00	2328.20	440.60	103.50	1579
28387-8	-4196.00	22.50	23.70	.00	.00	.00	.0	.00	26.25 55.00	1625.30	3306.10	432.70	-769.80	1586
28388-1	-4196.00	22.50	23.70	.00	.00	.00	.0	.00	26.25 55.00	1625.20	3438.80	431.40	-926.10	1586
28388-2	277.00	-816.00	175.00	.00	.00	.00	.0	.00	26.25 55.00	1623.60	1252.50	430.80	314.70	1586
28388-3	277.00	-816.00	175.00	.00	.00	.00	.0	.00	26.25 55.00	1622.80	1252.50	430.40	430.40	1586
28388-4	277.00	-816.00	175.00	.00	.00	.00	.0	.00	26.25 55.00	1622.80	1252.50	430.40	430.40	1586
				.00	.00	.00		.00	26.25 55.00					

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INSTRUMENT OPERATION

5-22-75 AT 2 HOURS 55 MINS 48 SECS

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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	----- (ARCMINS)	MAX PT EXC (ARCSEC)	----- (ARCMINS)	MAX PT EXC (ARCSEC)	LIMB OFF (W)	(X)	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY			GXB1	GYB1	-BETA- OPEN	-Z- OPEN	
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)			(Y)	(Z)	(AA) (BB) (CC)
28388-5	277.00	-816.00	175.00				.0		26.25	55.00	1623.90	1252.50	430.40 4.00 1586
28388-6	277.00	-816.00	175.00	.00	.00	.80	.0	.00	26.25	55.00	1623.00	1252.50	430.40 -894.10 1586
28388-7	277.00	-816.20	175.00	.00	.00	.00	.0	.00	26.25	55.00	1622.80	1109.50	430.40 426.30 1586
28388-8	277.00	-816.20	175.00	.00	.00	.00	.0	.00	26.25	55.00	1622.80	1086.70	430.40 424.60 1586
28389-1	277.00	-816.00	175.00	.00	.00	.80	.0	.00	26.25	55.00	1621.90	639.90	433.10 296.40 1586
28389-2	1385.00	988.70	-20.00	.00	.00	.00	.0	.00	26.25	55.00	1607.00	3289.10	432.90 -750.20 1587
28389-3	1385.00	988.70	-20.00	.00	.00	.00	.0	.00	26.25	55.00	1607.00	3289.10	432.90 -750.20 1587
28389-4	1385.00	988.70	-20.00	.00	.00	.00	.0	.00	26.25	55.00	1607.00	3289.10	432.90 -750.20 1587
28389-5	1385.00	988.70	-20.00	.00	.00	.00	.0	.00	26.25	55.00	1607.00	3289.10	432.90 -750.20 1587
28389-6	1385.00	988.70	-20.00	.00	.00	.00	.0	.00	26.25	55.00	1606.90	3426.30	431.60 -910.80 1587
28389-7	1385.00	988.70	-20.00	.00	.00	.80	.0	.00	26.25	55.00	1606.90	3426.30	431.60 -910.80 1587
28389-8	1385.00	988.70	-20.00	.00	.00	.00	.0	.00	26.25	55.00	1606.90	3426.30	431.60 -910.80 1587
28390-1	1385.00	988.70	-20.00	.00	.00	.80	.0	.00	26.25	55.00	1606.80	3546.70	430.40 -1059.40 1587
28390-2	-4097.00	-500.00	336.20	.00	.00	.80	.0	.00	26.25	55.00	1606.50	3736.10	425.10 -1314.90 1587
28390-3	-4097.00	-500.00	336.20	.00	.00	.80	.0	.00	26.25	55.00	1606.50	3736.10	425.10 -1314.90 1587
28390-4	-4097.00	-500.00	336.20	.00	.00	.80	.0	.00	26.25	55.00	1606.50	3736.10	425.10 -1314.90 1587
28390-5	-4097.00	-500.00	336.20	.00	.00	.80	.0	.00	26.25	55.00	1606.50	3665.30	424.60 -1223.60 1587
28390-6	-4097.00	-500.00	336.20	.00	.00	.80	.0	.00	26.25	55.00	1606.50	3665.30	424.60 -1223.60 1587
28390-7	-4097.00	-500.00	336.20	.00	.00	.80	.0	.00	26.25	55.00	1606.50	3665.30	424.60 -1223.60 1587
28390-8	-4097.00	-500.00	336.20	.00	.00	.80	.0	.00	26.25	55.00	1606.50	3569.50	424.30 -1102.80 1587
				.00	.00	.80		.00	26.25	55.00			

SD82B-EDB
INSTRUMENT OPERATION
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SC826-EDB

INSTRUMENT OPERATION

5-22-75

AT 2 HOURS 55 MINS 48 SECS

PAGE 2- 118

FRAME COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28391-1	-4097.00	-500.00	336.20	.00	.00	.00	.0	.00
28391-2	903.00	-822.50	-6.30	.00	.00	.00	.0	.00
28391-3	903.00	-663.70	-493.70	.00	.00	.00	.0	.00
28391-4	1652.00	987.50	65.00	.00	.00	.00	.0	.00
28391-5	1652.00	1006.20	57.50	.00	5.00	.00	.0	.00
28391-6	1878.00	992.50	55.00	.00	.00	.00	.0	.00
28391-7	109.00	20.00	556.20	.00	55.00	.00	.0	.00
28391-8	109.00	51.20	556.20	.00	82.50	.00	.0	.00
28392-1	109.00	22.50	556.20	.00	113.75	.00	.0	.00
28392-2	-1727.00	788.70	-130.00	.00	.00	.00	.0	.00
28392-3	-1727.00	788.70	-130.00	.00	.00	.00	.0	.00
28392-4	-1727.00	788.70	-130.00	.00	.00	.00	.0	.00
28392-5	-1727.00	788.70	-130.00	.00	.00	.00	.0	.00
28392-6	-1727.00	788.70	-130.00	.00	.00	.00	.0	.00
28392-7	-1727.00	788.70	-130.00	.00	.00	.00	.0	.00
28392-8	-1727.00	788.70	-130.00	.00	.00	.00	.0	.00
28393-1	-1727.00	788.70	-130.00	.00	.00	.00	.0	.00
28393-2	-2588.00	-765.00	350.00	.00	.00	.00	.0	.00
28393-3	-2588.00	-765.00	350.00	.00	.00	.00	.0	.00
28393-4	-2588.00	-765.00	350.00	.00	.00	.00	.0	.00

5082B-EDB
INSTRUMENT OPERATION 5-22-75 AT 2 HOURS 55 MINS 48 SECS
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SC82B-EDB
INSTRUMENT OPERATION
PAGE 2- 119

5-22-75 AT 2 HOURS 55 MINS 48 SECS

FRAME COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.							
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXBI	GYBI	-BETA- OPEN	-Z- OPEN					
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)		
2B393-5	-2685.10	-765.00	350.00	.00	.00	.00	.0	.00	26.25	55.00	1516.00	2280.40	440.90	132.80	1591
2B393-6	-2685.10	-765.00	350.00	.00	.00	.00	.0	.00	26.25	55.00	1516.00	2280.40	440.90	132.80	1591
2B393-7	-2685.10	-765.00	350.00	.00	.00	.00	.0	.00	26.25	55.00	1516.00	2280.40	440.90	132.80	1591
2B393-8	-2685.10	-765.00	350.00	.00	.00	.80	.0	.00	26.25	55.00	1515.80	2472.90	439.60	6.80	1591
2B394-1	-2685.10	-765.00	350.00	.00	.00	.80	.0	.00	26.25	55.00	1515.80	2472.90	439.60	6.80	1591
2B394-2	-2684.80	-765.00	350.00	.00	.00	.80	.0	.00	26.25	55.00	1515.00	3345.40	432.90	-813.80	1591
2B394-3	-4244.00	-468.80	305.00	.00	.00	.80	.0	.00	26.25	55.00	1514.50	3871.80	425.80	-1496.30	1591
2B394-4	-4244.00	-468.80	305.00	.00	.00	.80	.0	.00	26.25	55.00	1514.50	3871.80	425.80	-1496.30	1591
2B394-5	-4244.00	-467.50	305.00	.00	.00	.00	.0	.00	26.25	55.00	1514.50	3871.80	425.80	-1496.30	1591
2B394-6	-4244.00	-467.50	305.00	.00	.00	.80	.0	.00	26.25	55.00	1514.50	3828.10	425.20	-1438.00	1591
2B394-7	-4244.00	-467.50	305.00	.00	.00	.00	.0	.00	26.25	55.00	1514.50	3828.10	425.20	-1438.00	1591
2B394-8	-4244.00	-467.50	305.00	.00	.00	.80	.0	.00	26.25	55.00	1514.50	3828.10	425.20	-1438.00	1591
2B395-1	-4244.00	-467.50	305.00	.00	.00	.00	.0	.00	26.25	55.00	1514.50	3754.50	424.80	-1340.10	1591
2B395-2	-4244.00	-467.50	305.00	.00	.00	.80	.0	.00	26.25	55.00	1514.40	3532.90	424.30	-1057.40	1591
2B395-3	-4244.00	-467.50	305.00	.00	.00	.80	.0	.00	26.25	55.00	1513.80	2528.90	425.80	-59.50	1591
2B395-4	-4244.00	-467.50	305.00	.00	.00	.00	.0	.00	26.25	55.00	1513.80	2528.90	425.80	-59.50	1591
2B395-5	-4244.00	-467.50	305.00	.00	.00	.00	.0	.00	26.25	55.00	1513.80	2528.90	425.80	-59.50	1591
2B395-6	-4244.00	-467.50	305.00	.00	.00	.80	.0	.00	26.25	55.00	1513.80	2528.90	425.80	-59.50	1591
2B395-7	-4244.00	-467.50	305.00	.00	.00	.00	.0	.00	26.25	55.00	1513.80	2528.90	425.80	-59.50	1591
2B395-8	-4244.00	-467.50	305.00	.00	.00	.00	.0	.00	26.25	55.00	1513.80	2528.90	425.80	-59.50	1591
				.00	.00	.00	.0	.00	26.25	55.00					

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INSTRUMENT OPERATION

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FRAME	----- EPC POINT -----	----- MAX PT EXC -----	LIMB OFF	--NRL BIAS--	ANGLE	ALTITUDE	Z(M)	ORBIT
COUNT (ARCHINS)	(ARCSEC)	(ARCHINS) (ARCSEC)		(ARCSEC)	(ARCHINS)	(KM)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28396-1	-4244.00	-467.50	305.00				.0	.00
				.00	.00	.00		
28396-2	-4244.00	-467.50	305.00				.0	.00
				.00	.00	.00		
28396-3	-4244.00	-467.50	305.00				.0	.00
				.00	.00	.00		
28396-4	-4244.00	-467.50	305.00				.0	.00
				.00	.00	.00		
28396-5	-4244.00	-467.50	305.00				.0	.00
				.00	.00	.00		
28396-6	-4244.00	-467.50	305.00				.0	.00
				.00	.00	.00		
28396-7	-4244.00	-467.50	305.00				.0	.00
				.00	.00	.00		
28396-8	-4244.00	-467.50	305.00				.0	.00
				.00	.00	.00		
28397-1	-4244.00	-467.50	305.00				.0	.00
				.00	.00	.00		
28397-2	-4244.00	-467.50	305.00				.0	.00
				.00	.00	.00		
28397-3	-5665.00	-230.00	487.50				.0	.00
				.00	.00	.00		
28397-4	-5665.00	-230.00	487.50				.0	.00
				.00	.00	.00		
28397-5	-5665.00	-230.00	487.50				.0	.00
				.00	.00	.00		
28397-6	-5665.00	-230.00	487.50				.0	.00
				.00	.00	.00		
28397-7	-5665.00	-230.00	487.50				.0	.00
				.00	.00	.00		
28397-8	-5665.00	-230.00	487.50				.0	.00
				.00	.00	.00		
28398-1	-5665.00	-230.00	487.50				.0	.00
				.00	.00	.00		
28398-2	-5665.00	-230.00	487.50				.0	.00
				.00	.00	.00		
28398-3	-4194.00	25.00	23.70				.0	.00
				.00	.00	.00		
28398-4	-4034.00	-583.70	620.00				.0	.00
				.00	.00	.00		

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INSTRUMENT OPERATION

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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	----- (ARCMINS)	MAX (ARCMINS)	PT EXC (ARCSEC)	----- (ARCMINS)	LIMB OFF (W)	--- (X)	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(H) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY			GXB1	GYB1	-BETA- OPEN	-Z- OPEN	
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)			(Y)	(Z)	(AA) (BB) (CC)
2B398-5	-4034.00	-583.70	620.00	.00	.00	.00	.0	.00	26.25	55.00	1477.60	3917.50	426.00 -1559.30 1593
2B398-6	-4034.00	-583.70	620.00	.00	.00	.00	.0	.00	26.25	55.00	1477.60	3917.50	426.00 -1559.30 1593
2B398-7	-4034.00	-583.70	620.00	.00	.00	.00	.0	.00	26.25	55.00	1477.60	3917.50	426.00 -1559.30 1593
2B398-8	-4034.00	-583.70	620.00	.00	.00	.00	.0	.00	26.25	55.00	1477.60	3917.50	426.00 -1559.30 1593
2B399-1	-4034.00	-583.70	620.00	.00	.00	.00	.0	.00	26.25	55.00	1477.60	3886.50	425.40 -1517.80 1593
2B399-2	-4034.00	-583.70	620.00	.00	.00	.00	.0	.00	26.25	55.00	1477.60	3886.50	425.40 -1517.80 1593
2B399-3	-4034.00	-583.70	620.00	.00	.00	.00	.0	.00	26.25	55.00	1477.50	3616.60	424.30 -1162.10 1593
2B399-4	-4034.00	-576.20	620.00	.00	.00	.00	.0	.00	26.25	55.00	1477.40	3330.60	424.20 -817.50 1593
2B399-5	-4034.00	-576.20	620.00	.00	.00	.00	.0	.00	26.25	55.00	1477.40	3330.60	424.20 -817.50 1593
2B399-6	-4034.00	-576.20	620.00	.00	.00	.00	.0	.00	26.25	55.00	1477.40	3330.60	424.20 -817.50 1593
2B399-7	-4034.00	-576.20	620.00	.00	.00	.00	.0	.00	26.25	55.00	1477.40	3330.60	424.20 -817.50 1593
2B399-8	-4183.00	25.00	25.00	.00	.00	.00	.0	.00	26.25	55.00	1476.00	1630.40	429.20 382.50 1593
2B400-1	-5983.00	-208.70	478.70	.00	.00	.00	.0	.00	26.25	55.00	1459.20	3913.90	425.40 -1555.60 1594
2B400-2	-5983.00	-201.20	478.70	.00	.00	.00	.0	.00	26.25	55.00	1459.00	3376.00	424.20 -869.70 1594
2B400-3	-5983.00	-193.70	478.70	.00	.00	.00	.0	.00	26.25	55.00	1458.70	2860.60	425.00 -333.70 1594
2B400-4	-5983.00	-200.00	668.70	.00	.00	.00	.0	.00	26.25	55.00	1456.80	996.00	431.70 415.80 1594
2B400-5	-5983.00	-181.20	665.00	.00	.00	.00	.0	.00	26.25	55.00	1455.10	-144.40	435.70 95.00 1594
2B400-6	-1420.00	-808.70	26.70	.00	.00	.00	.0	.00	26.25	55.00	1439.80	2332.70	426.60 75.60 1595
2B400-7	-4066.00	-577.50	567.50	.00	.00	.00	.0	.00	26.25	55.00	1334.60	43.40	450.00 30.30 1600
2B400-8	-4066.00	-577.50	567.50	.00	.00	.00	.0	.00	26.25	55.00	1334.60	59.40	450.00 41.10 1600
				.00	.00	.00		.00	26.25	55.00			

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FRAME	----- EPC POINT -----			---- MAX PT EXC ----			LIMB OFF		--NRL BIAS--		ANGLE		ALTITUDE	Z(M)	ORBIT
COUNT	(ARCMINS)	(ARCSEC)		(ARCMINS)	(ARCSEC)				(ARCSEC)		(ARCMINS)		(KM)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY			GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)			(Y)	(Z)	(AA)	(BB)	(CC)
28401-1	-4066.00	-577.50	567.50				.0		26.25	55.00	1334.60	73.60	450.00	50.70	1600
28401-2	-4066.00	-577.50	567.50	.00	.00	.80	.0	.00	26.25	55.00	1334.60	115.30	450.00	78.20	1600
28401-3	-4066.00	-577.50	567.50	.00	.00	.80	.0	.00	26.25	55.00	1334.60	126.00	450.00	85.00	1600
28401-4	-4066.00	-577.50	567.50	.00	.00	.80	.0	.00	26.25	55.00	1334.30	274.30	449.70	174.00	1600
28401-5	-4066.00	-577.50	567.50	.00	.00	.80	.0	.00	26.25	55.00	1334.30	299.20	449.70	187.70	1800
28401-6	-4066.00	-577.50	567.50	.00	.00	.80	.0	.00	26.25	55.00	1333.20	871.90	448.00	406.30	1601
28401-7	-4066.00	-577.50	567.50	.00	.00	.80	.0	.00	26.25	55.00	1330.20	3282.80	433.70	-741.40	1601
28401-8	-4192.00	23.70	23.70	.00	.00	.00	.0	.00	26.25	55.00	1329.50	3821.40	424.30	-1431.30	1601
28402-1	-4192.00	23.70	23.70	.00	.00	.00	.0	.00	26.25	55.00	1329.40	3688.60	424.20	-1254.90	1601
28402-2	-4143.00	-431.20	158.70	.00	.00	.80	.0	.00	26.25	55.00	1292.50	3628.30	423.80	-1178.10	1603
28402-3	-4143.00	-431.20	158.70	.00	.00	.80	.0	.00	26.25	55.00	1292.50	3628.30	423.80	-1178.10	1603
28402-4	-4143.00	-431.20	158.70	.00	.00	.80	.0	.00	26.25	55.00	1292.50	3628.30	423.80	-1178.10	1603
28402-5	-4143.00	-431.20	158.70	.00	.00	.80	.0	.00	26.25	55.00	1292.50	3628.30	423.80	-1178.10	1603
28402-6	-4143.00	-431.20	158.70	.00	.00	.80	.0	.00	26.25	55.00	1292.50	3628.30	423.80	-1178.10	1603
28402-7	-4143.00	-431.20	158.70	.00	.00	.80	.0	.00	26.25	55.00	1292.40	3465.90	423.90	-976.60	1603
28402-8	-4143.00	-431.20	158.70	.00	.00	.80	.0	.00	26.25	55.00	1292.40	3465.90	423.90	-976.60	1603
28403-1	-4143.00	-431.20	158.70	.00	.00	.80	.0	.00	26.25	55.00	1292.10	2917.30	424.90	-386.20	1603
28403-2	-4143.00	-431.20	158.70	.00	.00	.80	.0	.00	26.25	55.00	1290.40	1214.30	431.00	430.90	1603
28403-3	-4143.00	-431.20	158.70	.00	.00	.80	.0	.00	26.25	55.00	1290.40	1206.60	431.00	430.90	1603
28403-4	-4143.00	-431.20	158.70	.00	.00	.80	.0	.00	26.25	55.00	1290.40	1191.20	431.00	430.60	1603
				.00	.00	.80		.00	26.25	55.00					

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FRAME COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE Z(M) (KM) (KM)	ORBIT NO.							
	GAMRR GAMX GAMY	GAMRR GAMX GAMY		GXB1 GYB1	-BETA- OPEN	-Z- OPEN								
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)	
28403-5	-4143.00	-431.20	158.70	.00	.00	.00	.0	.00	26.25 55.00	1290.40	1180.50	431.00	430.30	1603
28403-6	-4143.00	-431.20	158.70	.00	.00	.00	.0	.00	26.25 55.00	1290.40	1138.30	431.00	428.60	1603
28403-7	-4143.00	-431.20	158.70	.00	.00	.00	.0	.00	26.25 55.00	1290.10	971.40	431.90	412.50	1603
28403-8	-4143.00	-431.20	158.70	.00	.00	.00	.0	.00	26.25 55.00	1290.10	965.10	431.90	411.50	1603
28404-1	-4143.00	-431.20	158.70	.00	.00	.00	.0	.00	26.25 55.00	1289.10	839.00	432.80	188.50	1603
28404-2	-6811.00	-40.00	798.70	.00	.00	.00	.0	.00	26.25 55.00	1259.00	907.30	447.80	413.50	1604
28404-3	-6811.00	-40.00	798.70	.00	.00	.00	.0	.00	26.25 55.00	1259.00	907.30	447.80	413.50	1604
28404-4	-6811.00	-40.00	798.70	.00	.00	.00	.0	.00	26.25 55.00	1259.00	907.30	447.80	413.50	1604
28404-5	-6811.00	-40.00	798.70	.00	.00	.00	.0	.00	26.25 55.00	1259.00	907.30	447.80	413.50	1604
28404-6	-6811.00	-40.00	798.70	.00	.00	.00	.0	.00	26.25 55.00	1259.00	907.30	447.00	413.50	1604
28404-7	-6811.00	-40.00	798.70	.00	.00	.00	.0	.00	26.25 55.00	1258.70	1121.10	446.90	442.10	1604
28404-8	-6811.00	-40.00	798.70	.00	.00	.00	.0	.00	26.25 55.00	1258.70	1121.10	446.90	442.10	1604
28405-1	-6811.00	-40.00	798.70	.00	.00	.00	.0	.00	26.25 55.00	1257.70	1757.00	443.70	368.50	1604
28405-2	-6811.00	-40.00	798.70	.00	.00	.00	.0	.00	26.25 55.00	1257.20	2176.00	441.20	191.90	1604
28405-3	-6811.00	-40.00	798.70	.00	.00	.00	.0	.00	26.25 55.00	1255.60	3835.00	429.30	436.80	1604
28405-4	-6811.00	-40.00	798.70	.00	.00	.00	.0	.00	26.25 55.00	1255.50	4142.90	425.60	889.20	1604
28405-5	-2193.00	-396.20	-102.50	.00	.00	.00	.0	.00	26.25 55.00	1252.40	716.80	433.40	356.80	1605
28405-6	-6343.00	17.50	1042.50	.00	.00	.00	.0	.00	26.25 55.00	1240.00	1078.90	447.20	438.70	1605
28405-7	-6343.00	31.30	1042.50	.00	.00	.00	.0	.00	26.25 55.00	1238.50	2137.80	441.70	212.50	1605
28405-8	-3254.00	-371.20	11.20	.00	.00	.00	.0	.00	26.25 55.00	1237.00	3950.80	428.70	599.00	1605
				.00	.00	.00	.0	.00	26.25 55.00					

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FRAME COUNT	----- EPC (ARCHMINS)	POINT (ARCSEC)	----- (ARCHMINS)	MAX PT EXC (ARCSEC)	----- (ARCHMINS)	LIMB OFF (X)	---NRL BIAS--- (ARCSEC)	ANGLE (ARCHMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.				
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN					
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)		
2B406-1	-5166.00	-367.50	666.20	.00	.00	.00	.0	.00	26.25	55.00	1236.20	2868.20	425.40	339.60	1605
2B406-2	-4169.00	23.70	25.00	.00	.00	.00	.0	.00	26.25	55.00	1183.40	1595.80	444.70	409.80	1808
2B406-3	-4169.00	23.70	25.00	.00	.00	.00	.0	.00	26.25	55.00	1181.70	3047.40	435.50	-489.00	1808
2B406-4	-1128.80	-443.70	427.50	.00	.00	.00	.0	.00	26.25	55.00	1033.50	2129.00	441.20	216.30	1816
2B406-5	-1128.80	-443.70	427.50	.00	.00	.00	.0	.00	26.25	55.00	1033.50	2129.00	441.20	216.30	1816
2B406-6	-1128.80	-443.70	427.50	.00	.00	.00	.0	.00	26.25	55.00	1033.50	2129.00	441.20	216.30	1816
2B406-7	-1128.80	-443.70	427.50	.00	.00	.00	.0	.00	26.25	55.00	1033.50	2129.00	441.20	216.30	1816
2B406-8	-1128.80	-443.70	427.50	.00	.00	.00	.0	.00	26.25	55.00	1033.30	2343.70	439.90	92.50	1816
2B407-1	-1128.80	-443.70	427.50	.66	.00	.00	.0	.00	26.25	55.00	1033.30	2343.70	439.90	92.50	1816
2B407-2	-1128.80	-443.70	427.50	.00	.00	.00	.0	.00	26.25	55.00	1033.30	2343.70	439.90	92.50	1816
2B407-3	-1128.80	-443.70	427.50	.00	.00	.00	.0	.00	26.25	55.00	1032.70	2975.60	435.70	-418.30	1816
2B407-4	-1128.80	-426.20	306.20	.00	.00	.00	.0	.00	26.25	55.00	1032.30	3572.10	431.60	-1088.00	1816
2B407-5	-1128.80	-426.20	306.20	.00	.00	.00	.0	.00	26.25	55.00	1032.30	3572.10	431.60	-1088.00	1816
2B407-6	-1128.80	-426.20	306.20	.00	.00	.00	.0	.00	26.25	55.00	1032.30	3572.10	431.60	-1088.00	1816
2B407-7	-1128.80	-426.20	306.20	.00	.00	.00	.0	.00	26.25	55.00	1032.30	3572.10	431.60	-1088.00	1816
2B407-8	-1128.80	-426.20	306.20	.00	.00	.00	.0	.00	26.25	55.00	1032.30	3572.10	431.60	-1088.00	1816
2B408-1	-1128.80	-426.20	306.20	.00	.00	.00	.0	.00	26.25	55.00	1032.30	3572.10	431.60	-1088.00	1816
2B408-2	-1128.80	-426.20	306.20	.00	.00	.00	.0	.00	26.25	55.00	1032.20	3755.80	430.30	-1327.70	1816
2B408-3	-1128.80	-426.20	306.20	.00	.00	.00	.0	.00	26.25	55.00	1032.20	3755.80	430.30	-1327.70	1816
2B408-4	3517.60	-343.60	-343.80	.00	.00	.00	.0	.00	26.25	55.00	1030.80	2584.30	426.40	-99.70	1816
				.00	.00	.00	.0	.00	26.25	55.00					

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SQ82B-E0B

INSTRUMENT OPERATION

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FRAME COUNT	----- EPC (ARCHINS)	POINT (ARCSEC)	----- (ARCHINS)	MAX PT EXC (ARCSEC)	----- (ARCHINS)	LIMB OFF	---NRL BIAS--- (ARCSEC)	ANGLE (ARCHINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN	
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA) (BB) (CC)
28408-5	3517.60	-343.80	-343.80				.0	26.25 55.00	1030.80	2584.30	426.40 -99.70 1616
28408-6	3517.60	-343.80	-343.80	.00	.00	.00	.0	26.25 55.00	1030.80	2584.30	426.40 -99.70 1616
28408-7	3517.60	-343.80	-343.80	.00	.00	.00	.0	26.25 55.00	1030.60	2370.50	427.20 52.60 1616
28408-8	3517.60	-343.80	-343.80	.00	.00	.00	.0	26.25 55.00	1030.60	2370.50	427.20 52.60 1616
28409-1	3517.60	45.00	-618.70	.00	.00	.00	.0	26.25 55.00	1028.70	840.60	433.10 388.80 1616
28409-2	3517.60	45.00	-618.70	.00	.00	.00	.0	26.25 55.00	1028.00	398.00	434.60 234.30 1616
28409-3	-1065.20	-605.00	-136.20	.00	.00	.00	.0	26.25 55.00	996.90	1612.30	444.20 405.90 1617
28409-4	-1065.20	-605.00	-136.20	.00	.00	.00	.0	26.25 55.00	996.90	1612.30	444.20 405.90 1617
28409-5	-1065.20	-605.00	-136.20	.00	.00	.00	.0	26.25 55.00	996.90	1612.30	444.20 405.90 1617
28409-6	-1064.60	-605.00	-136.20	.66	.00	.00	.0	26.25 55.00	996.90	1612.30	444.20 405.90 1617
28409-7	-1064.60	-605.00	-136.20	.00	.00	.00	.0	26.25 55.00	996.90	1612.30	444.20 405.90 1617
28409-8	-1065.20	-566.20	-146.20	.66	.00	.00	.0	26.25 55.00	995.10	3314.60	433.30 -777.80 1617
28410-1	-1065.20	-566.20	-146.20	.00	.00	.00	.0	26.25 55.00	995.10	3314.60	433.30 -777.80 1617
28410-2	-1064.60	-566.20	-146.20	.00	.00	.00	.0	26.25 55.00	995.10	3314.60	433.30 -777.80 1617
28410-3	-1064.60	-566.20	-146.20	.00	.00	.00	.0	26.25 55.00	995.10	3314.60	433.30 -777.80 1617
28410-4	-1064.60	-566.20	-146.20	.00	.00	.00	.0	26.25 55.00	995.00	3512.60	432.00 -1013.40 1618
28410-5	-1763.00	-630.00	-10.00	1.32	.00	.00	.0	26.25 55.00	994.50	4377.90	424.60 -2247.70 1618
28410-6	-1763.00	-630.00	-10.00	.00	.00	.00	.0	26.25 55.00	994.50	4377.90	424.60 -2247.70 1618
28410-7	-1763.00	-630.00	-10.00	.00	.00	.00	.0	26.25 55.00	994.50	4377.90	424.60 -2247.70 1618
28410-8	-1763.00	-630.00	-10.00	.00	.00	.00	.0	26.25 55.00	994.50	4377.90	424.60 -2247.70 1618
				.00	.00	.00	.00	26.25 55.00			

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SC82B-EDB
INSTRUMENT OPERATION 5-22-75 AT 2 HOURS 55 MINS 48 SECS
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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	----- (ARCMINS)	MAX PT EXC (ARCSEC)	----- (ARCMINS)	MAX PT EXC (ARCSEC)	LIMB OFF (X)	---NRL BIAS--- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.		
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
2B411-1	-1763.00	-630.00	-10.00	.00	.00	.80	.0	.00	26.25 55.00	994.50	4377.90	424.60	-2247.70	1618
2B411-2	5917.30	80.00	1070.00	.00	.00	.80	.0	.00	26.25 55.00	974.00	1864.40	429.30	312.80	1619
2B411-3	-5386.00	-372.50	61.20	.00	.00	.80	.0	.00	26.25 55.00	958.60	2183.80	441.10	187.40	1619
2B411-4	-5386.00	-372.50	61.20	.00	.00	.80	.0	.00	26.25 55.00	958.60	2183.80	441.10	187.40	1619
2B411-5	-5386.00	-372.50	61.20	.00	.00	.80	.0	.00	26.25 55.00	958.60	2183.80	441.10	187.40	1619
2B411-6	-5386.00	-372.50	61.20	.00	.00	.80	.0	.00	26.25 55.00	958.60	2183.80	441.10	187.40	1619
2B411-7	-5386.00	-372.50	61.20	.00	.00	.80	.0	.00	26.25 55.00	958.60	2183.80	441.10	187.40	1619
2B411-8	-1345.00	-160.00	-287.50	.00	.00	.80	.0	.00	26.25 55.00	957.20	4006.90	429.10	-1677.60	1619
2B412-1	-1345.00	-160.00	-287.50	.00	.00	.80	.0	.00	26.25 55.00	957.20	4006.90	429.10	-1677.60	1619
2B412-2	-1345.00	-160.00	-287.50	.00	.00	.80	.0	.00	26.25 55.00	957.20	4006.90	429.10	-1677.60	1619
2B412-3	-1345.00	-160.00	-287.50	.00	.00	.80	.0	.00	26.25 55.00	957.20	4006.90	429.10	-1677.60	1619
2B412-4	-1345.00	-160.00	-287.50	.00	.00	.80	.0	.00	26.25 55.00	957.20	4006.90	429.10	-1677.60	1619
2B412-5	-2952.00	-245.00	-225.00	.00	.00	.80	.0	.00	26.25 55.00	956.90	4270.90	424.30	-2082.20	1619
2B412-6	-2952.00	-245.00	-225.00	.00	.00	.80	.0	.00	26.25 55.00	956.90	4270.90	424.30	-2082.20	1619
2B412-7	-2952.00	-245.00	-225.00	.00	.00	.80	.0	.00	26.25 55.00	956.90	4270.90	424.30	-2082.20	1619
2B412-8	-2952.00	-245.00	-225.00	.00	.00	.80	.0	.00	26.25 55.00	956.90	4270.90	424.30	-2082.20	1619
2B413-1	-2952.00	-245.00	-225.00	.00	.00	.80	.0	.00	26.25 55.00	956.90	4270.90	424.30	-2082.20	1619
2B413-2	-6433.00	-353.70	176.20	.00	.00	.80	.0	.00	26.25 55.00	956.30	2993.80	425.70	-457.70	1619
2B413-3	-6433.00	-353.70	176.20	.00	.00	.80	.0	.00	26.25 55.00	956.30	2993.80	425.70	-457.70	1619
2B413-4	-6433.00	-353.70	176.20	.00	.00	.80	.0	.00	26.25 55.00	956.30	2993.80	425.70	-457.70	1619

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----									TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G-										OP	CL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	
246:20:25: 6:908			28413-5	L		AUTO	X	X	S	MA	6	X	H1	OK	OK	
	25: 8:124	C: 1:216														
246:20:25: 9:791			28413-6	S		AUTO	X	X	S	MA	6	X	H1	OK	OK	
	25:42:121	C:32:330														
246:20:33: 2:183			28413-7	S		MAN	X	X	S	GS	6	X	H1	OK	OK	
	33:22: 99	C:19:916														
246:21:49:40:658			28413-8	S		AUTO	X	4	S	MA	6	X	H1	OK	OK	
	49:43:408	C: 2:750														
246:21:49:46:908			28414-1	L		AUTO	X	4	S	MA	6	X	H1	OK	OK	
	49:47:408	O: C:500														
246:21:49:49:158			28414-2	S		AUTO	X	4	S	MA	6	X	H1	OK	OK	
	49:59:406	C:10:250														
246:21:50: C:908			28414-3	L		AUTO	X	4	S	MA	6	X	H1	OK	OK	
	50: 2:408	C: 1:500														
246:21:50: 4:158			28414-4	S		AUTO	X	4	S	MA	6	X	H1	OK	OK	
	50:33:908	O:29:750														
246:21:56:11: 31			28414-5	S		AUTO	X	4	S	MA	6	X	H1	OK	OK	
	56:13:699	C: 2:668														
246:21:56:15:406			28414-6	L		AUTO	X	4	S	MA	6	X	H1	OK	OK	
	56:15:908	C: C:500														
246:21:56:17:699			28414-7	S		AUTO	X	4	S	MA	6	X	H1	OK	OK	
	56:27:864	C:10:165														
246:21:56:29:531			28414-8	L		AUTO	X	4	S	MA	6	X	H1	OK	OK	
	56:30:946	C: 1:417														
246:21:56:34:447			28415-1	S		AUTO	X	4	S	MA	6	X	H1	OK	OK	
	57: 4:061	C:30:414														
246:22: 8: 3:665			28415-2	S		AUTO	X	4	S	MA	6	X	H1	OK	OK	
	8: 6:331	C: 2:666														
246:22: 8: 7:998			28415-3	L		AUTO	X	4	S	GS	6	X	H1	OK	OK	
	8: 8:498	C: C:500														
246:22: 8:10: 81			28415-4	S		AUTO	X	4	S	GS	6	X	H1	OK	OK	
	8:20:247	O:10:166														
246:22: 8:21:997			28415-5	L		AUTO	X	4	S	GA	6	X	H1	OK	OK	
	8:23:414	C: 1:417														
246:22: 8:24:997			28415-6	S		AUTO	X	4	S	GA	6	X	H1	OK	OK	
	8:56:628	C:31:831														
246:23:19:35:208			28415-7	S		AUTO	X	4	S	MA	6	X	H1	OK	OK	
	19:37:958	C: 2:750														
246:23:19:39:708			28415-8	L		AUTO	X	4	S	MA	6	X	H1	OK	OK	
	19:40:208	O: C:500														

5082B-EDB

INSTRUMENT OPERATION

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FRAME COUNT	----- EPC POINT ----- (ARCHINS) (ARCSEC)	----- MAX PT EXC ----- (ARCHINS) (ARCSEC)	LIMB OFF	---NRL BIAS--- (ARCSEC)	ANGLE (ARCHINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28413-5	-6433.00	-353.70	176.20				.0	26.25 55.00
				.00	.00	.00	.00	26.25 55.00
28413-6	-6433.00	-353.70	176.20				.0	26.25 55.00
				.66	.00	.80	.00	26.25 55.00
28413-7	-2504.00	-765.00	376.20				.0	26.25 55.00
				.00	.00	.80	.00	26.25 55.00
28413-8	-1183.00	-126.20	-276.20				.0	26.25 55.00
				.00	.00	.00	.00	26.25 55.00
28414-1	-1183.00	-126.20	-276.20				.0	26.25 55.00
				.00	.00	.80	.00	26.25 55.00
28414-2	-1183.00	-126.20	-276.20				.0	26.25 55.00
				.00	.00	.00	.00	26.25 55.00
28414-3	-1183.00	-126.20	-276.20				.0	26.25 55.00
				.00	.00	.00	.00	26.25 55.00
28414-4	-1183.00	-126.20	-276.20				.0	26.25 55.00
				.00	.00	.80	.00	26.25 55.00
28414-5	-1183.00	-117.50	-276.20				.0	26.25 55.00
				.00	.00	.00	.00	26.25 55.00
28414-6	-1183.00	-117.50	-276.20				.0	26.25 55.00
				.00	.00	.80	.00	26.25 55.00
28414-7	-1183.00	-117.50	-276.20				.0	26.25 55.00
				.00	.00	.80	.00	26.25 55.00
28414-8	-1183.00	-117.50	-276.20				.0	26.25 55.00
				.00	.00	.80	.00	26.25 55.00
28415-1	-1183.00	-117.50	-276.20				.0	26.25 55.00
				.00	.00	.80	.00	26.25 55.00
28415-2	-1183.00	-106.20	-271.20				.0	26.25 55.00
				.00	.00	.00	.00	26.25 55.00
28415-3	-1183.00	-106.20	-271.20				.0	26.25 55.00
				.00	.00	.80	.00	26.25 55.00
28415-4	-1183.00	-106.20	-271.20				.0	26.25 55.00
				.00	.00	.80	.00	26.25 55.00
28415-5	-1183.00	-106.20	-271.20				.0	26.25 55.00
				.00	.00	.00	.00	26.25 55.00
28415-6	-1183.00	-106.20	-271.20				.0	26.25 55.00
				.00	.00	.80	.00	26.25 55.00
28415-7	4439.00	420.00	-18.80				.0	26.25 55.00
				.00	.00	.80	.00	26.25 55.00
28415-8	4439.00	420.00	-18.80				.0	26.25 55.00
				.00	.00	.00	.00	26.25 55.00

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SG828-EDB

INSTRUMENT OPERATION

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FRAME	----- EPC POINT -----	----	MAX PT EXC ----	LIMB OFF	--NRL BIAS--	ANGLE	ALTITUDE Z(M)	ORBIT
COUNT (ARCMINS)	(ARCMINS)	(ARCMINS)	(ARCMINS)	(ARCMINS)	(ARCMINS)	(ARCMINS)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28416-1	4439.00	420.00	-18.80				.0	.00
				.00	.00	.00		
28416-2	4439.00	420.00	-18.80				.0	.00
				.00	.00	.00		
28416-3	4439.00	420.00	-18.80				.0	.00
				.00	.00	.00		
28416-4	4471.00	402.50	1.30				.0	.00
				.00	.00	.00		
28416-5	4471.00	402.50	1.30				.0	.00
				.00	.00	.00		
28416-6	4471.00	402.50	1.30				.0	.00
				.00	.00	.00		
28416-7	4471.00	402.50	1.30				.0	.00
				.00	.00	.00		
28416-8	4471.00	402.50	1.30				.0	.00
				.00	.00	.00		
28417-1	4471.00	392.50	6.30				.0	.00
				.00	.00	.00		
28417-2	4471.00	392.50	6.30				.0	.00
				.00	.00	.00		
28417-3	4471.00	392.50	6.30				.0	.00
				.00	.00	.00		
28417-4	4471.00	392.50	6.30				.0	.00
				.00	.00	.00		
28417-5	4471.00	392.50	6.30				.0	.00
				.00	.00	.00		
28417-6	5504.00	-41.20	-346.20				.0	.00
				.00	.00	.00		
28417-7	5504.00	-41.20	-346.20				.0	.00
				.00	.00	.00		
28417-8	5504.00	-41.20	-346.20				.0	.00
				.00	.00	.00		
28418-1	5504.00	-41.20	-346.20				.0	.00
				.00	.00	.00		
28418-2	5504.00	-41.20	-346.20				.0	.00
				.00	.00	.00		
28418-3	5504.00	-41.20	-346.20				.0	.00
				.00	.00	.00		
28418-4	5504.00	-41.20	-346.20				.0	.00
				.00	.00	.00		
				.00	.00	1.25	.00	.00

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----								TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G-										OP	CL
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
247: 1: 0:32:926	c:53: 8	c:20: 82	28418-5	L		AUTO	X	4	S	ML	6	X	H1	OK	OK
247: 1: 2:26:584	2:46:833	c:20:249	28418-6	S		MAN	X	X	S	ML	6	X	H1	OK	OK
247: 2:38: 8:819	40:48:144	2:39:325	28418-7	S		MAN	X	X	S	MA	6	X	H1	OK	OK
247: 2:42:58:556	43:38:138	c:39:582	28418-8	S		MAN	X	X	S	MA	6	X	H1	OK	OK
247: 2:43:58:970	44: 8:221	c: 9:251	28419-1	S		MAN	X	X	S	MA	6	X	H1	OK	OK
247: 4:14:44:708	15: 3:950	c:19:250	28419-2	S		MAN	X	X	S	ML	6	X	H1	OK	OK
247:11:37: 6:124	37: 8:874	c: 2:750	28419-3	S		AUTO	X	X	S	ML	6	X	H1	OK	OK
247:11:37:10:539	37:10:956	c: 5:417	28419-4	L		AUTO	X	X	S	ML	6	X	H1	OK	OK
247:11:37:12:623	37:22:789	c:10:166	28419-5	S		AUTO	X	4	S	ML	6	X	H1	OK	OK
247:11:37:24:456	37:25:872	c: 1:416	28419-6	L		AUTO	X	X	S	ML	6	X	H1	OK	OK
247:11:37:27:538	37:59:787	c:32:249	28419-7	S		AUTO	X	X	S	ML	6	X	H1	OK	OK
247:11:50:43:958	50:46:708	c: 2:750	28419-8	S		AUTO	X	4	S	GS	6	X	H1	OK	OK
247:11:50:50:208	50:50:708	c: 0:500	28420-1	L		AUTO	X	4	S	GS	6	X	H1	OK	OK
247:11:50:52:208	51: 2:208	c:10: 0	28420-2	S		AUTO	X	4	S	GS	6	X	H1	OK	OK
247:11:51: 3:958	51: 5:208	c: 1:250	28420-3	L		AUTO	X	4	S	GS	6	X	H1	OK	OK
247:11:51: 6:958	51:36:708	c:29:750	28420-4	S		AUTO	X	4	S	GS	6	X	H1	OK	OK
247:11:59:16:458	59:19:208	c: 2:750	28420-5	S		AUTO	X	X	S	MA	6	X	H1	OK	OK
247:11:59:20:958	59:21:458	c: 0:500	28420-6	L		AUTO	X	X	S	MA	6	X	H1	OK	OK
247:11:59:22:958	59:33:208	c:10:250	28420-7	S		AUTO	X	X	S	MA	6	X	H1	OK	OK
247:11:59:34:708	59:36:208	c: 1:500	28420-8	L		AUTO	X	X	S	MA	6	X	H1	OK	OK

DATE 052275

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FRAME	----- EPE POINT -----			---- MAX PT EXC ----			LIMB OFF	--NRL BIAS--		ANGLE		ALTITUDE Z(M)		ORBIT
COUNT	(ARCMINS)	(ARCSEC)		(ARCMINS)	(ARCSEC)			(ARCSEC)		(ARCMINS)		(KM)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28418-5	5504.00	-41.20	-346.20				.0	26.25	55.00	900.50	3752.50	424.20	-1338.90	1822
28418-6	5504.00	-41.20	-346.20	.00	.00	.00	.0	26.25	55.00	900.30	3351.60	424.90	-840.00	1822
28418-7	108.00	13.00	555.00	.00	.00	.00	.0	26.25	55.00	881.30	2764.30	426.40	-245.70	1623
28418-8	108.00	38.70	555.00	1.32	73.75	.00	.0	26.25	55.00	880.40	1886.20	429.50	304.90	1623
28419-1	108.00	30.00	555.00	1.32	91.25	.00	.0	26.25	55.00	880.10	1664.20	430.30	375.70	1623
28419-2	-116.00	-728.70	-216.20	1.32	22.50	.00	.0	26.25	55.00	862.00	2156.00	428.50	181.20	1624
28419-3	-6078.80	-147.50	818.70	.00	.00	.00	.0	26.25	55.00	770.60	3088.70	434.70	-532.30	1629
28419-4	-6078.80	-147.50	818.70	.00	.00	.00	.0	26.25	55.00	770.60	3088.70	434.70	-532.30	1629
28419-5	-6078.80	-147.50	818.70	.00	.00	.00	.0	26.25	55.00	770.60	3088.70	434.70	-532.30	1629
28419-6	-6078.20	-147.50	818.70	.00	.00	.00	.0	26.25	55.00	770.60	3088.70	434.70	-532.30	1629
28419-7	-6078.80	-147.50	818.70	.00	.00	.00	.0	26.25	55.00	770.60	3088.70	434.70	-532.30	1629
28419-8	-1197.00	-460.00	-166.20	.00	.00	.00	.0	26.25	55.00	769.70	4273.80	423.80	-2088.10	1629
28420-1	-1197.00	-460.00	-166.20	.00	.00	.00	.0	26.25	55.00	769.70	4273.80	423.80	-2088.10	1629
28420-2	-1197.00	-460.00	-166.20	.00	.00	.00	.0	26.25	55.00	769.70	4273.80	423.80	-2088.10	1629
28420-3	-1197.00	-460.00	-166.20	.00	.00	.00	.0	26.25	55.00	769.70	4095.50	423.80	-1820.20	1629
28420-4	-1197.00	-460.00	-166.20	.00	.00	.00	.0	26.25	55.00	769.70	4095.50	423.80	-1820.20	1629
28420-5	-829.00	25.00	-315.00	.00	.00	.00	.0	26.25	55.00	768.60	2400.60	427.70	33.70	1629
28420-6	-829.00	25.00	-315.00	.00	.00	.00	.0	26.25	55.00	768.60	2400.60	427.70	33.70	1629
28420-7	-829.00	25.00	-315.00	.00	.00	.00	.0	26.25	55.00	768.60	2400.60	427.70	33.70	1629
28420-8	-829.00	25.00	-315.00	.00	.00	.00	.0	26.25	55.00	768.60	2400.60	427.70	33.70	1629

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----									TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G ^a										OP	CL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	
247:11:59:39:708			28421-1	S		AUTO	X	X	5	MA	6	X	H1	OK	OK	
	0: 9:708	0:30: 0														
247:12: 7: 3:208			28421-2	S		AUTO	X	X	5	MA	6	X	H1	OK	OK	
	7: 5:708	0: 2:500														
247:12: 7: 7:458			28421-3	L		AUTO	X	X	5	MA	6	X	H1	OK	OK	
	7: 7:958	0: 0:500														
247:12: 7: 9:708			28421-4	S		AUTO	X	X	5	MA	6	X	H1	OK	OK	
	7:19:708	0:10: 0														
247:12: 7:21:458			28421-5	L		AUTO	X	X	5	MA	6	X	H1	OK	OK	
	7:22:958	0: 1:500														
247:12: 7:24:458			28421-6	S		AUTO	X	X	5	MA	6	X	H1	OK	OK	
	7:56:708	0:32:250														
247:13:35:37:708			28421-7	S		MAN	X	X	5	MA	6	X	H1	OK	OK	
	35:57:458	0:19:750														
247:16:26:57: 0			28421-8	S	BORE	AUTO	X	X	5	GS	6	X	H1	OK	OK	
	28:59:500	0: 2:500														
247:16:29: 1:500			28422-1	L	BORE	AUTO	X	X	5	GS	6	X	H1	OK	OK	
	29: 2: 0	0: 0:500														
247:16:29: 4: 0			28422-2	S	BORE	AUTO	X	X	5	GS	6	X	H1	OK	OK	
	29:14: 0	0:10: 0														
247:16:29:16: 0			28422-3	L	BORE	AUTO	X	X	5	GS	6	X	H1	OK	OK	
	29:17:500	0: 1:500														
247:16:29:19:500			28422-4	S	BORE	AUTO	X	X	5	GS	6	X	H1	OK	OK	
	29:49:800	0:30:500														
247:16:36:14:356			28422-5	S	BORE	AUTO	X	X	5	GS	6	X	H1	OK	OK	
	36:14:606	0: 0:250														
247:16:36:16:188			28422-6	L	BORE	AUTO	X	X	5	GS	6	X	H1	OK	OK	
	36:16:688	0: 0:500														
247:16:36:18:355			28422-7	S	BORE	AUTO	X	4	5	GS	6	X	H1	OK	OK	
	36:28:522	0:15:167														
247:16:36:30:187			28422-8	L	BORE	AUTO	X	4	5	GS	6	X	H1	OK	OK	
	36:31:604	0: 1:417														
247:16:36:35:104			28423-1	S	BORE	AUTO	X	4	5	GS	6	A	H1	OK	OK	
	37:15:268	0:40:164														
247:16:37:16:935			28423-2	L	BORE	AUTO	X	4	5	GS	6	X	H1	OK	OK	
	37:22:102	0: 5:167														
247:16:37:23:767			28423-3	S	BORE	AUTO	X	4	5	GS	6	X	H1	OK	OK	
	40: 3:843	2:40: 76														
247:16:40: 5:759			28423-4	L	BORE	AUTO	X	4	5	ML	6	X	H1	OK	OK	
	40:25:843	0:20: 84														

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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	----- (ARCMINS)	MAX PT EXC (ARCSEC)	----- (ARCMINS)	MAX PT EXC (ARCSEC)	LIMB OFF (W)	(X)	--NRL BIAS-- (ARCSEC)	(Y)	(Z)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY			GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)					(AA)	(BB)	(CC)
2B421-1	-829.00	25.00	-315.00	.00	.00	.00	.0	.00	26.25	55.00	768.60	2400.60	427.70	33.70	1629
2B421-2	600.00	201.20	-238.70	.00	.00	.00	.0	.00	26.25	55.00	766.20	591.80	434.10	315.60	1629
2B421-3	600.00	201.20	-238.70	.00	.00	.00	.0	.00	26.25	55.00	766.20	575.90	434.10	309.70	1629
2B421-4	600.00	201.20	-238.70	.00	.00	.00	.0	.00	26.25	55.00	766.20	567.40	434.10	306.50	1629
2B421-5	600.00	201.20	-238.70	.00	.00	.00	.0	.00	26.25	55.00	766.20	523.20	434.10	289.10	1629
2B421-6	600.00	201.20	-238.70	.00	.00	.00	.0	.00	26.25	55.00	766.20	511.90	434.10	284.40	1629
2B421-7	-2.00	906.30	118.70	.00	.00	.00	.0	.00	26.25	55.00	749.20	1777.90	430.00	343.20	1630
2B421-8	5.00	-256.00	256.00	.00	.00	.00	.0	.00	26.25	55.00	733.70	2569.20	438.00	-65.90	1631
2B422-1	5.00	-256.00	256.00	.00	.00	.00	.0	.00	26.25	55.00	733.30	3010.30	435.10	-453.20	1631
2B422-2	5.00	-256.00	256.00	.00	.00	.00	.0	.00	26.25	55.00	713.70	4412.80	423.80	-2304.90	1632
2B422-3	5.00	-256.00	256.00	.00	.00	.00	.0	.00	26.25	55.00	713.70	4412.80	423.80	-2304.90	1632
2B422-4	5.00	-256.00	256.00	.00	.00	.00	.0	.00	26.25	55.00	713.70	4412.80	423.80	-2304.90	1632
2B422-5	-2544.00	-78.70	295.00	.00	.00	.00	.0	.00	26.25	55.00	713.00	2991.10	425.90	-454.60	1632
2B422-6	-2544.00	-78.70	295.00	.00	.00	.00	.0	.00	26.25	55.00	713.00	2991.10	425.90	-454.60	1632
2B422-7	-2544.00	-78.70	295.00	.00	.00	.00	.0	.00	26.25	55.00	713.00	2991.10	425.90	-454.60	1632
2B422-8	-2544.00	-78.70	295.00	.00	.00	.00	.0	.00	26.25	55.00	713.00	2991.10	425.90	-454.60	1632
2B423-1	-2544.00	-78.70	295.00	.00	.00	.00	.0	.00	26.25	55.00	713.00	2991.10	425.90	-454.60	1632
2B423-2	-2544.00	-78.70	295.00	.00	.00	.00	.0	.00	26.25	55.00	712.80	2769.80	426.60	-250.10	1632
2B423-3	-2544.00	-78.70	295.00	.00	.00	.00	.0	.00	26.25	55.00	712.80	2769.80	426.60	-250.10	1632
2B423-4	-2544.00	-78.70	295.00	.00	.00	.00	.0	.00	26.25	55.00	712.10	2099.00	428.90	211.00	1632

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FRAME	----- EPC POINT -----			---- MAX PT EXC ----			LIMB OFF		--NRL BIAS--		ANGLE		ALTITUDE Z(M)		ORBIT
COUNT	(ARCMINS)	(ARCSEC)		(ARCMINS)	(ARCSEC)				(ARCSEC)		(ARCMINS)	(KM)	(KM)	NO.	
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY			GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)			(Y)	(Z)	(AA)	(BB)	(CC)
2B423-5	-2544.00	-102.50	333.70				.0		26.25	55.00	710.60	747.90	433.00	365.50	1632
2B423-6	-2544.00	-102.50	333.70	.00	.00	.00	.0	.00	26.25	55.00	710.30	731.60	433.70	361.30	1632
2B423-7	-2544.00	-102.50	333.70	.00	.00	.00	.0	.00	26.25	55.00	710.30	723.40	433.70	358.90	1632
2B423-8	-2544.00	-102.50	333.70	.00	.00	.00	.0	.00	26.25	55.00	710.30	678.70	433.70	345.30	1632
2B424-1	-2544.00	-102.50	333.70	.00	.00	.00	.0	.00	26.25	55.00	710.30	660.20	433.70	339.30	1632
2B424-2	5160.00	-170.00	445.00	.00	.00	.00	.0	.00	26.25	55.00	675.50	3090.50	425.70	-554.20	1834
2B424-3	5160.00	-170.00	445.00	.00	.00	.00	.0	.00	26.25	55.00	675.50	3090.50	425.70	-554.20	1834
2B424-4	5160.00	-170.00	445.00	.00	.00	.00	.0	.00	26.25	55.00	675.50	3090.50	425.70	-554.20	1834
2B424-5	5160.00	-170.00	445.00	.00	.00	.00	.0	.00	26.25	55.00	675.50	3090.50	425.70	-554.20	1834
2B424-6	5160.00	-170.00	445.00	.00	.00	.00	.0	.00	26.25	55.00	675.50	3090.50	425.70	-554.20	1834
2B424-7	5160.00	-170.00	445.00	.00	.00	.00	.0	.00	26.25	55.00	675.30	2868.70	426.40	-338.10	1834
2B424-8	5160.00	-170.00	445.00	.00	.00	.00	.0	.00	26.25	55.00	675.30	2868.70	426.40	-338.10	1834
2B425-1	5160.00	-170.00	445.00	.00	.00	.00	.0	.00	26.25	55.00	674.70	2196.30	428.60	159.60	1834
2B425-2	-3098.10	677.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	661.80	239.10	450.10	154.00	1634
2B425-3	-3098.10	677.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	661.80	247.30	450.10	158.70	1634
2B425-4	-3098.10	677.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	661.80	263.30	450.10	167.80	1634
2B425-5	-3098.10	677.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	661.80	274.90	450.10	174.40	1634
2B425-6	-3098.10	677.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	661.80	319.50	450.10	198.70	1634
2B425-7	-3098.10	677.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	661.80	345.60	450.10	212.50	1634
2B425-8	-3098.10	677.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	661.50	503.00	449.50	287.10	1634
				.00	.00	.00		.00	26.25	55.00					

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FRAME	----- EPE POINT -----	----- MAX PT EXC -----		LIMB OFF	--NRL BIAS--		ANGLE		ALTITUDE	Z(M)	ORBIT				
COUNT	(ARCMINS)	(ARCSEC)	(ARCMINS)	(ARCSEC)	(ARCMINS)	(ARCSEC)	(ARCSEC)	(ARCMINS)	(KM)	(KM)	NO.				
	GAMRR	GAMX	GANY	GAMRR	GAMX	GANY		-BETA- OPEN	-Z- OPEN						
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)		
28426-1	-3098.10	677.50	56.30				.0		26.25	55.00	661.50	591.60	449.50	323.00	1834
28426-2	-3098.10	677.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	659.80	1500.30	444.60	426.20	1634
28426-3	-3098.10	652.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	657.80	3722.90	431.00	-1282.60	1634
28426-4	-3098.10	668.70	56.30	.00	.00	.80	.0	.00	26.25	55.00	657.80	3722.90	431.00	-1282.60	1634
28426-5	-3098.10	668.70	56.30	.00	.00	.80	.0	.00	26.25	55.00	657.80	3722.90	431.00	-1282.60	1634
28426-6	-3098.10	655.00	56.30	.00	.00	.00	.0	.00	26.25	55.00	657.80	3722.90	431.00	-1282.60	1634
28426-7	-3098.10	655.00	56.30	.00	.00	.00	.0	.00	26.25	55.00	657.80	3722.90	431.00	-1282.60	1634
28426-8	-3098.10	658.70	56.30	.00	36.25	.00	.0	.00	26.25	55.00	657.70	3932.70	429.80	-1570.70	1834
28427-1	-3098.10	658.70	56.30	.00	.00	.00	.0	.00	26.25	55.00	657.70	3932.70	429.80	-1570.70	1834
28427-2	-3098.10	663.70	56.30	.00	42.50	.00	.0	.00	26.25	55.00	657.50	4498.00	426.80	-2432.90	1634
28427-3	-3098.10	927.50	56.30	.00	36.25	.00	.0	.00	26.25	55.00	657.40	4724.80	425.40	-2810.90	1634
28427-4	-3098.00	927.00	56.30	.00	.00	.00	.0	.00	26.25	55.00	657.40	4725.00	425.40	-2811.00	1634
28427-5	-3098.10	927.50	56.30	.00	.00	.80	.0	.00	26.25	55.00	657.30	4738.10	424.80	-2834.90	1634
28427-6	-3098.10	927.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	657.30	4738.10	424.80	-2834.90	1634
28427-7	-3098.10	927.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	657.30	4738.10	424.80	-2834.90	1634
28427-8	-3098.10	927.50	56.30	.00	.00	.80	.0	.00	26.25	55.00	657.30	4738.10	424.80	-2834.90	1634
28428-1	-3098.10	927.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	657.30	4673.60	424.50	-2727.70	1834
28428-2	-3098.10	927.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	657.30	4673.60	424.50	-2727.70	1634
28428-3	-3098.10	927.50	56.30	.00	.00	.00	.0	.00	26.25	55.00	657.00	3792.00	424.50	-1391.00	1634
28428-4	-3100.40	975.00	55.00	.00	.00	.80	-13.0	.00	26.25	55.00	642.80	488.00	449.60	280.60	1835
				.00	.00	.00		.00	26.25	55.00					

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE		----- OP EXP -----							TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G-										OP	CL
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
247:22:17:45:222			28428-5	L	LMB PT	MAN	X	X	S	ML	6	X	H1	OK	
	17:45:722	C: C:500													OK
247:22:17:47:389			28428-6	S	LMB PT	MAN	X	X	S	ML	6	X	H1	OK	
	17:57:555	C:10:166													OK
247:22:17:59:138			28428-7	L	LMB PT	MAN	X	X	S	ML	6	X	H1	OK	
	18: 0:554	C: 1:416													OK
247:22:18: 2:220			28428-8	S	LMB PT	MAN	X	X	S	ML	6	X	H1	OK	
	18:42:386	C:40:166													OK
247:22:18:45:885			28429-1	L	LMB PT	MAN	X	X	S	ML	6	X	H1	OK	
	18:51: 52	C: 5:167													OK
247:22:18:52:718			28429-2	S	LMB PT	MAN	X	X	S	ML	6	X	H1	OK	
	21:32:792	2:40: 74													OK
247:22:21:34:458			28429-3	L	LMB PT	MAN	X	X	S	M3	6	X	H1	OK	
	21:54:458	C:20: 0													OK
247:22:24:47:620			28429-4	L	LMB PT	AUTO S	X	X	S	M3	6	X	H1	OK	
	24:48: 7	C: 0:387													OK
247:22:24:49:757			28429-5	S	LMB PT	AUTO S	X	X	S	M3	6	X	H1	OK	
	24:52:757	C: 3: 0													OK
247:22:24:54: 7			28429-6	L	LMB PT	AUTO S	X	X	S	M3	6	X	H1	OK	
	24:55:507	C: 1:500													OK
247:22:24:57: 7			28429-7	S	LMB PT	AUTO S	X	X	S	M3	6	X	H1	OK	
	25: 7:257	C:10:250													OK
247:22:25: 9: 7			28429-8	L	LMB PT	AUTO S	X	X	S	M3	6	X	H1	OK	
	25:13:869	C: 4:862													OK
247:22:25:17:507			28430-1	S	LMB PT	AUTO S	X	X	S	M3	6	X	H1	OK	
	25:57:757	C:40:250													OK
247:22:25:59:257			28430-2	L	LMB PT	AUTO S	X	X	S	M3	6	X	H1	OK	
	26:19:507	C:20:250													OK
247:22:26:21: 7			28430-3	S	LMB PT	AUTO S	X	X	S	M3	6	X	H1	OK	
	29: 1:257	2:40:250													OK
247:22:29: 2:757			28430-4	L	LMB PT	AUTO S	X	X	S	M3	6	X	H1	OK	
	29: 3:257	C: C:500													OK
247:22:29: 5: 7			28430-5	S	LMB PT	AUTO S	X	X	S	M3	6	X	H1	OK	
	29: 7:757	C: 2:750													OK
247:22:29: 9:257			28430-6	L	LMB PT	AUTO S	X	X	S	M3	6	X	H1	OK	
	29:10:757	C: 1:500													OK
247:22:29:12:257			28430-7	S	LMB PT	AUTO S	X	X	S	M3	6	X	H1	OK	
	29:22:507	C:10:250													OK
247:22:29:24:257			28430-8	L	LMB PT	AUTO S	X	X	S	M3	6	X	H1	OK	
	29:29:257	C: 5: 0													OK

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INSTRUMENT OPERATION

5-22-75 AT 2 HOURS 55 MINS 48 SECS

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----								TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G*										OP	CL
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
247:22:29:32:757			2B431-1	S	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	30:13: 7	G:40:250													
247:22:30:14:757			2B431-2	L	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	30:34:757	O:20: 0													
247:22:30:36:257			2B431-3	S	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	33:16:507	2:40:250													
247:22:33:18:257			2B431-4	L	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	33:18:507	G: G:250													
247:22:33:20:257			2B431-5	S	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	33:23: 7	G: 2:750													
247:22:33:24:507			2B431-6	L	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	33:26: 7	O: 1:500													
247:22:33:27:507			2B431-7	S	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	33:37:757	G:10:250													
247:22:33:39:507			2B431-8	L	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	33:44:507	G: 5: 0													
247:22:33:48:257			2B432-1	S	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	34:28:257	G:40: 0													
247:22:34:30: 7			2B432-2	L	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	34:50: 7	O:20: 0													
247:22:34:51:757			2B432-3	S	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	37:32: 7	2:40:250													
247:22:37:33:507			2B432-4	L	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	37:34: 7	O: 0:500													
247:22:37:35:757			2B432-5	S	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	37:38:507	G: 2:750													
247:22:37:40: 7			2B432-6	L	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	37:41:507	O: 1:500													
247:22:37:43: 7			2B432-7	S	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	37:53:257	G:10:250													
247:22:37:55: 7			2B432-8	L	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	38: 0: 7	G: 5: 0													
247:22:38: 3:507			2B433-1	S	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	38:43:757	G:40:250													
247:22:38:45:257			2B433-2	L	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	39: 5:507	G:20:250													
247:22:39: 7: 7			2B433-3	S	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	41:47:257	2:40:250													
247:22:41:48:757			2B433-4	L	LMB PT AUTO S	X	X	5	M3	6	X	H1	OK		OK
	41:51:507	G: 2:750													

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INSTRUMENT OPERATION

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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	----- (ARCMINS)	MAX PT EXC (ARCSEC)	----- (ARCMINS)	LIMB OFF (ARCSEC)	---NRL BIAS--- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GANX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN	
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA) (BB) (CC)
2B431-1	-3097.00	975.00	55.00	.00	.00	.00	-5.0	-1.00	26.25 55.00	640.10 3029.30	435.10 -471.70 1635
2B431-2	-3097.00	975.00	55.00	.00	.00	.00	-4.0	.00	26.25 55.00	639.30 3250.50	433.80 -705.50 1635
2B431-3	-3097.00	975.00	55.00	.00	.00	.00	-4.0	.00	26.25 55.00	639.30 3250.50	433.80 -705.50 1635
2B431-4	-3097.00	975.00	55.00	.00	.00	.00	-2.0	.00	26.25 55.00	639.10 3898.10	429.90 -1522.00 1635
2B431-5	-3097.00	975.00	55.00	.00	.00	.00	-2.0	.00	26.25 55.00	639.10 3898.10	429.90 -1522.00 1635
2B431-6	-3097.00	975.00	55.00	.00	.00	.00	-2.0	.00	26.25 55.00	639.10 3898.10	429.90 -1522.00 1635
2B431-7	-3097.00	975.00	55.00	.00	.00	.00	-2.0	.00	26.25 55.00	639.10 3898.10	429.90 -1522.00 1635
2B431-8	-3097.00	975.00	55.00	.00	.00	.00	-2.0	.00	26.25 55.00	639.10 3898.10	429.90 -1522.00 1635
2B432-1	-3097.00	975.00	55.00	.00	.00	.00	-2.0	.00	26.25 55.00	639.10 3898.10	429.90 -1522.00 1635
2B432-2	-3097.00	975.00	55.00	.00	.00	.00	-2.0	.00	26.25 55.00	639.30 4103.80	428.80 -1818.90 1635
2B432-3	-3097.00	975.00	55.00	.00	.00	.00	-2.0	.00	26.25 55.00	639.30 4103.80	428.80 -1818.90 1635
2B432-4	-3097.00	975.00	55.00	.00	.00	.00	.0	.00	26.25 55.00	639.40 4628.30	426.10 -2647.70 1635
2B432-5	-3097.00	975.00	55.00	.00	.00	.00	.0	.00	26.25 55.00	639.40 4628.30	426.10 -2647.70 1635
2B432-6	-3097.00	975.00	55.00	.00	.00	.00	.0	.00	26.25 55.00	639.40 4628.30	426.10 -2647.70 1635
2B432-7	-3097.00	975.00	55.00	.00	.00	.00	.0	.00	26.25 55.00	639.40 4628.30	426.10 -2647.70 1635
2B432-8	-3097.00	975.00	55.00	.00	.00	.00	.0	.00	26.25 55.00	639.40 4628.30	426.10 -2647.70 1635
2B433-1	-3097.00	975.00	55.00	.00	.00	.00	.0	.00	26.25 55.00	639.30 4730.40	425.40 -2820.20 1635
2B433-2	-3097.00	975.00	55.00	.00	.00	.00	.0	.00	26.25 55.00	639.30 4730.40	425.40 -2820.20 1635
2B433-3	-3097.00	975.00	55.00	.00	.00	.00	.0	.00	26.25 55.00	639.30 4760.70	424.90 -2873.10 1635
2B433-4	-3097.00	975.00	55.00	.00	.00	.00	2.0	.00	26.25 55.00	639.20 4592.80	424.20 -2594.40 1635
				.00	.00	.00		.00	26.25 55.00		

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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	----- (ARCMINS)	MAX PT EXC (ARCSEC)	----- (ARCMINS)	LIMB OFF (X)	---NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z (M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN	
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA) (BB) (CC)
28433-5	-3096.00	975.00	55.00				2.0		26.25 55.00	639.20 4592.80	424.20 -2594.40 1635
28433-6	-3096.00	975.00	55.00	.00	.00	.00	2.0	.00	26.25 55.00	639.20 4433.40	424.10 -2336.80 1635
28433-7	-3096.00	975.00	55.00	.00	.00	.00	2.0	.00	26.25 55.00	639.20 4433.40	424.10 -2336.80 1635
28433-8	-3096.00	975.00	55.00	.00	.00	.00	2.0	.00	26.25 55.00	639.20 4433.40	424.10 -2336.80 1635
28434-1	-3096.00	975.00	55.00	.00	.00	.00	2.0	.00	26.25 55.00	638.40 4249.10	424.10 -2049.60 1635
28434-2	-3096.00	975.00	55.00	.00	.00	.00	2.0	.00	26.25 55.00	638.40 3628.40	424.80 -1175.90 1635
28434-3	-3096.00	975.00	55.00	.00	.00	.00	1.0	.00	26.25 55.00	638.40 2968.10	426.30 -431.30 1635
28434-4	-3096.00	975.00	55.00	.00	.00	.00	4.0	-1.00	26.25 55.00	635.50 525.90	433.90 290.10 1636
28434-5	-3096.00	975.00	55.00	.00	.00	.00	4.0	.00	26.25 55.00	635.50 509.50	433.90 283.40 1636
28434-6	-3096.00	975.00	55.00	.00	.00	.00	4.0	.00	26.25 55.00	634.70 463.60	434.60 264.00 1636
28434-7	-3096.00	975.00	55.00	.00	.00	.00	4.0	.00	26.25 55.00	634.70 419.10	434.60 243.80 1636
28434-8	-3096.00	975.00	55.00	.00	.00	.00	4.0	.00	26.25 55.00	634.70 260.80	434.60 163.10 1636
28435-1	-3096.00	975.00	55.00	.00	.00	.00	4.0	.00	26.25 55.00	634.50 95.00	435.20 63.80 1636
28435-2	-3098.40	978.70	55.00	.00	.00	.00	3.0	.00	26.25 55.00	625.20 148.40	450.30 99.30 1636
28435-3	-3098.40	978.70	55.00	.00	.00	.00	3.0	.00	26.25 55.00	623.40 759.30	448.10 378.00 1636
28435-4	-3098.10	978.70	55.00	.00	.00	.00	5.0	.00	26.25 55.00	621.40 2986.00	435.40 443.90 1636
28435-5	-3098.10	978.70	55.00	.00	.00	.00	5.0	.00	26.25 55.00	621.40 2988.00	435.40 444.80 1636
28435-6	-3098.10	978.70	55.00	.00	.00	.00	5.0	.00	26.25 55.00	620.50 3210.00	434.00 445.50 1636
28435-7	-3098.10	978.70	55.00	.00	.00	.00	5.0	.00	26.25 55.00	620.50 3210.00	434.00 446.10 1636
28435-8	-3098.70	978.70	55.00	.00	.00	.00	5.0	.00	26.25 55.00	620.50 3210.00	434.00 439.00 1636
				.00	.00	.00		.00	26.25 55.00		

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INSTRUMENT OPERATION

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FRAME COUNT	----- EPC (ARCINS)	POINT ----- (ARCSEC)	---- MAX PT EXC ---- (ARCINS) (ARCSEC)			LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCINS)		ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.		
	GAMRR	GANX	GAMY	GAMRR	GANX	GAMY		GXBI	GYBI	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28436-1	-3C98.4C	978.7C	55.0C				5.0		26.25 55.00	620.40	3431.00	432.60	437.30	1836
28436-2	-3C98.7C	978.7C	55.0C	.00	.0C	.0C	5.0	.00	26.25 55.00	620.60	4071.20	429.00	-1770.90	1636
28436-3	-3C98.4C	978.7C	55.0C	.0C	.0C	.00	5.0	.00	26.25 55.00	620.40	4615.80	426.20	-2626.70	1636
28436-4	-3C95.0C	978.7C	55.0C	.0C	.0C	.0C	7.0	.00	26.25 55.00	619.50	3460.60	425.10	-967.40	1636
28436-5	-3C95.0C	978.7C	55.0C	.0C	.0C	.00	7.0	.00	26.25 55.00	619.50	3460.60	425.10	-967.40	1636
28436-6	-3C95.0C	978.7C	55.0C	.0C	.0C	.00	7.0	.00	26.25 55.00	619.60	3240.00	425.60	-712.90	1636
28436-7	-3C95.0C	978.7C	55.0C	.0C	.0C	.00	7.0	.00	26.25 55.00	619.60	3240.00	425.60	-712.90	1636
28436-8	-3C95.0C	978.7C	55.0C	.0C	.0C	.00	7.0	.00	26.25 55.00	619.60	3240.00	425.60	-712.90	1836
28437-1	-3C95.0C	978.7C	55.0C	.00	.0C	.00	7.0	.00	26.25 55.00	619.50	3017.50	426.20	-479.70	1636
28437-2	-3095.0C	978.7C	55.0C	.0C	.0C	.00	7.0	.00	26.25 55.00	618.70	2342.80	428.40	72.40	1636
28437-3	-3C95.0C	978.7C	55.0C	.0C	.0C	.00	7.0	.00	26.25 55.00	617.60	1662.80	430.80	376.70	1636
28437-4	-3100.1C	951.2C	56.3C	.0C	.0C	.0C	.0	.00	26.25 55.00	600.70	3289.60	425.50	-768.00	1637
28437-5	-3100.1C	951.2C	56.3C	.0C	.0C	.00	.0	.00	26.25 55.00	600.80	3066.80	426.10	-529.20	1637
28437-6	-3100.1C	951.2C	56.3C	.0C	.0C	.0C	.0	.00	26.25 55.00	600.80	3066.80	426.10	-529.20	1637
28437-7	-3100.1C	951.2C	56.3C	.0C	.0C	.0C	.0	.00	26.25 55.00	600.80	3066.80	426.10	-529.20	1637
28437-8	-3100.1C	951.2C	56.3C	.0C	.0C	.0C	.0	.00	26.25 55.00	600.80	3066.80	426.10	-529.20	1637
28438-1	-3100.0C	951.7C	56.3C	.0C	.0C	.0C	.0	.00	26.25 55.00	600.90	2843.10	426.80	-313.70	1637
28438-2	-3100.0C	951.7C	56.3C	.0C	.0C	.0C	.0	.00	26.25 55.00	600.90	2843.10	426.80	-313.70	1637
28438-3	-3100.0C	951.7C	56.3C	.0C	.0C	.0C	.0	.00	26.25 55.00	599.80	2391.10	428.20	40.92	1637
28438-4	-3100.0C	951.7C	56.3C	.0C	.0C	.0C	.0	.00	26.25 55.00	599.80	2165.10	429.00	177.30	1637
				.0C	.0C	.00		.00	26.25 55.00					

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FRAME	----- EPC POINT -----	----	MAX PT EXC ----	LIMB OFF	---	NRL BIAS--	ANGLE	ALTITUDE	Z(M)	ORBIT	
COUNT (ARCMINS)	(ARCSEC)	(ARCMINS)	(ARCSEC)			(ARCSEC)	(ARCMINS)	(KM)	(KM)	NO.	
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(Y)	(Z)	(AA)	(BB)	(CC)
28438-5	-369.00	1002.50	55.00				29.0	26.25 55.00	449.70	2095.20	429.40 213.70 1645
28438-6	-1861.00	892.50	-213.70	.00	.00	.00	.0	26.25 55.00	413.50	3562.30	425.00 -1091.80 1647
28438-7	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	399.20	557.00	449.10 309.30 1647
28438-8	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	398.50	873.70	447.20 406.10 1647
28439-1	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	398.50	957.70	447.20 422.30 1647
28439-2	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	398.50	966.30	447.20 423.70 1647
28439-3	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	398.50	1011.20	447.20 430.50 1647
28439-4	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	398.50	1023.60	447.20 432.20 1647
28439-5	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	398.20	1183.00	446.10 444.80 1647
28439-6	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	398.20	1208.70	446.10 445.60 1647
28439-7	5460.00	-36.22	-6.30	.00	.00	.00	.0	26.25 55.00	397.30	1784.50	442.30 443.10 1647
28439-8	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	397.00	2013.70	442.30 443.10 1647
28440-1	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	396.50	2471.90	438.00 4.40 1647
28440-2	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	396.00	3157.80	433.70 -606.00 1647
28440-3	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	396.00	3157.80	433.70 -606.00 1647
28440-4	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	396.00	3157.80	433.70 -606.00 1647
28440-5	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	396.00	3157.80	433.70 -606.00 1647
28440-6	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	396.00	3157.80	433.70 -606.00 1647
28440-7	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	395.80	3385.60	432.30 -861.40 1647
28440-8	5460.00	-36.20	-6.30	.00	.00	.00	.0	26.25 55.00	395.80	3385.60	432.30 -861.40 1647
				.00	.00	.00	.00	26.25 55.00			

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----								TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G#										OP	CL
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
248:18:47: C:473	47:10:222	C: 9:749	28441-1	S		MAN	X	X	5	ML	6	X	H1	OK	OK
248:20: 4:41:493	4:51:992	C:10:499	28441-2	S		MAN	X	X	5	ML	6	X	H1	OK	OK
248:20: 8:16:482	8:25:982	C: 9:500	28441-3	S		MAN	X	X	5	ML	6	X	H1	OK	OK
248:20:15:17:710	15:17:960	G: 0:250	28441-4	S		FLARE	X	4	5	ML	6	X	H1	OK	OK
248:20:15:18:210	15:19:271	G: 1:250	28441-5	S		FLARE	X	4	5	ML	6	X	H1	OK	OK
248:20:15:19:459	15:24:459	C: 5: 0	28441-6	S		FLARE	X	4	5	ML	6	X	H1	OK	OK
248:20:15:24:709	15:44:708	C:19:999	28441-7	S		FLARE	X	4	5	ML	6	A	H1	OK	OK
248:20:15:44:958	15:45:206	C: 0:250	28441-8	S		FLARE	X	4	5	ML	6	A	H1	OK	OK
248:20:15:47:208	15:48:458	C: 1:250	28442-1	S		FLARE	X	X	5	ML	6	X	H1	OK	OK
248:20:15:48:708	15:53:708	C: 5: 0	28442-2	S		FLARE	X	X	5	ML	6	X	H1	OK	OK
248:20:15:53:958	16:13:958	C:20: 0	28442-3	S		FLARE	X	X	5	ML	6	X	H1	OK	OK
248:20:16:15:958	16:16:118	G: 0:160	28442-4	L		FLARE	X	X	5	ML	6	X	H1	OK	OK
248:20:16:16:218	16:16:818	G: 0:600	28442-5	L		FLARE	X	X	5	ML	6	X	H1	OK	OK
248:20:16:16:918	16:19:357	G: 2:439	28442-6	L		FLARE	X	X	5	ML	6	X	H1	OK	OK
248:20:16:19:457	16:29:457	C:10: 0	28442-7	L		FLARE	X	X	5	ML	6	X	H1	OK	OK
248:20:16:31:207	16:31:707	G: 0:500	28442-8	S		FLARE	X	X	5	ML	6	X	H1	OK	OK
248:20:16:33:707	16:34:957	G: 1:250	28443-1	S		FLARE	X	4	5	ML	6	X	H1	OK	OK
248:20:16:35: 57	16:40: 57	G: 5: 0	28443-2	S		FLARE	X	4	5	ML	6	X	H1	OK	OK
248:20:16:40:157	17: 0:205	C:20: 48	28443-3	S		FLARE	X	4	5	ML	6	X	H1	OK	OK
248:20:17: 0:455	17: 0:705	C: 0:250	28443-4	S		FLARE	X	4	5	ML	6	X	H1	OK	OK

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FRAME COUNT	----- EPE POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR GAMX GAMY	GAMRR GAMX GAMY		GXB1 GYB1	-BETA- OPEN	-Z- OPEN		
(D)	(Q) (R) (S)	(T) (U) (V)	(W) (X)		(Y)	(Z)	(AA) (BB)	(CC)
2B441-1	5460.00 -36.20 -6.30	.00 .00 .00	.0 .00	26.25 55.00	395.40	4494.90	426.80 -2428.00	1647
2B441-2	5530.00 402.50 477.50	.00 .00 .00	.0 .00	26.25 55.00	379.80	980.40	447.40 426.20	1648
2B441-3	5530.00 402.50 477.50	.00 .00 .00	.0 .00	26.25 55.00	378.50	1739.10	442.50 372.20	1648
2B441-4	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.10	3342.50	432.60 -811.20	1648
2B441-5	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.10	3342.50	432.60 -811.20	1648
2B441-6	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.10	3342.50	432.60 -811.20	1648
2B441-7	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.10	3342.50	432.60 -811.20	1648
2B441-8	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.10	3342.50	432.60 -811.20	1648
2B442-1	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.10	3342.50	432.60 -811.20	1648
2B442-2	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.10	3342.50	432.60 -811.20	1648
2B442-3	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.10	3342.50	432.60 -811.20	1648
2B442-4	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.00	3570.00	431.30 -1086.20	1648
2B442-5	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.00	3570.00	431.30 -1086.20	1648
2B442-6	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.00	3570.00	431.30 -1086.20	1648
2B442-7	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.00	3570.00	431.30 -1086.20	1648
2B442-8	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.00	3570.00	431.30 -1086.20	1648
2B443-1	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.00	3570.00	431.30 -1086.20	1648
2B443-2	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.00	3570.00	431.30 -1086.20	1648
2B443-3	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	377.00	3570.00	431.30 -1086.20	1648
2B443-4	5773.00 368.70 495.00	.00 .00 .00	.0 .00	26.25 55.00	376.90	3796.50	430.00 -1382.80	1648
		.00 .00 .00	.00	26.25 55.00				

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FRAME COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(H) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28443-5	5773.00	368.70	495.00				.0	.00
28443-6	5773.00	368.70	495.00	.00	.00	.00	.0	.00
28443-7	5773.00	368.70	495.00	.00	.00	.00	.0	.00
28443-8	5773.00	368.70	495.00	.00	.00	.00	.0	.00
28444-1	5773.00	368.70	495.00	.00	.00	.00	.0	.00
28444-2	5773.00	368.70	495.00	.00	.00	.00	.0	.00
28444-3	5773.00	368.70	495.00	.00	.00	.00	.0	.00
28444-4	5773.00	368.70	495.00	.00	.00	.00	.0	.00
28444-5	5773.00	368.70	495.00	.00	.00	.00	.0	.00
28444-6	5773.00	368.70	495.00	.00	.00	.00	.0	.00
28444-7	5773.00	368.70	495.00	.00	.00	.00	.0	.00
28444-8	5773.00	368.70	495.00	.00	.00	.00	.0	.00
28445-1	5774.00	368.70	495.00	.00	.00	.00	.0	.00
28445-2	5775.00	368.70	495.00	.00	.00	.00	.0	.00
28445-3	-1726.00	186.20	-455.00	.00	.00	.00	.0	.00
28445-4	-1726.00	186.20	-455.00	.00	.00	.00	.0	.00
28445-5	-1725.00	186.20	-455.00	.00	.00	.00	.0	.00
28445-6	-1725.00	186.20	-455.00	.00	.00	.00	.0	.00
28445-7	-1724.00	192.50	-446.20	.00	.00	.00	.0	.00
28445-8	-3499.00	-78.70	-516.70	.00	.00	.00	.0	.00

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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	----- (ARCSEC)	MAX (ARCMINS)	PT EXC (ARCSEC)	----- (ARCSEC)	LIMB OFF	---NRL BIAS--- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.		
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
2B446-1	-3499.00	-76.70	-518.70				.0		26.25 55.00	335.40	621.40	433.80	326.10	1650
2B446-2	-1622.00	-548.70	7.50	.00	.00	.00	.0	.00	26.25 55.00 25.00 55.00	304.80	1091.40	447.20	439.80	1652
2B446-3	41.00	26.20	555.00	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	169.00	2120.70	429.80	201.60	1659
2B446-4	41.00	51.20	555.00	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	169.00	2120.70	429.80	201.60	1659
2B446-5	41.00	42.50	555.00	.00	50.00	.00	.0	.00	26.25 55.00 26.25 55.00	168.70	1889.10	430.50	305.40	1659
2B446-6	-446.00	-402.50	-192.50	.00	76.25	.00	.0	.00	26.25 55.00 26.25 55.00	148.30	547.70	434.50	299.00	1660
2B446-7	-3551.00	171.20	76.20	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	138.50	2.00	451.00	69.30	1660
2B446-8	-3551.00	171.20	76.20	.33	.00	.00	.0	.00	26.25 55.00 26.25 55.00	135.50	1835.30	441.30	340.50	1660
2B447-1	-3550.00	171.20	76.20	.33	.00	.00	.0	.00	26.25 55.00 26.25 55.00	134.50	2992.70	434.10	-438.20	1660
2B447-2	-3551.00	171.20	76.20	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	134.30	3224.50	432.70	-679.60	1660
2B447-3	-3551.00	171.20	76.20	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	133.80	4613.50	426.20	-2623.00	1661
2B447-4	-3551.00	171.20	76.20	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	133.60	4762.80	423.90	-2879.30	1661
2B447-5	-3549.00	171.20	76.20	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	133.30	3839.20	424.90	-1454.10	1661
2B447-6	-3549.00	171.20	76.20	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	133.10	3607.20	425.30	-1147.50	1661
2B447-7	-3549.00	175.00	76.20	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	131.70	1983.50	430.30	266.90	1661
2B447-8	-3549.00	175.00	76.20	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	131.40	1751.80	431.00	352.70	1661
2B448-1	-1169.00	131.20	176.20	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	119.20	174.00	449.70	115.20	1661
2B448-2	-1169.00	131.20	176.20	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	118.50	634.80	447.90	338.10	1661
2B448-3	-1169.00	131.20	176.20	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	117.20	1557.80	443.00	414.90	1661
2B448-4	-1169.00	131.20	176.20	.00	.00	.00	.0	.00	26.25 55.00 26.25 55.00	116.70	2020.10	440.20	266.20	1661
				.00	.00	.00		.00	26.25 55.00					

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FRAME	----- EPC POINT -----	----- MAX PT EXC -----	LIMB OFF	--NRL BIAS--	ANGLE	ALTITUDE	Z(M)	ORBIT
COUNT (ARCMINS)	(ARCSEC)	(ARCMINS)	(ARCSEC)	(ARCSEC)	(ARCMINS)	(KM)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28448-5	-1169.00	131.20	176.20				.0	26.25 55.00
28448-6	-1169.00	131.20	176.20	.00	.00	.00	.0	26.25 55.00
28448-7	-1169.00	131.20	176.20	.00	.00	.00	.0	26.25 55.00
28448-8	-1169.00	131.20	176.20	.00	.00	.00	.0	26.25 55.00
28449-1	-1169.00	137.50	176.20	.00	.00	.00	.0	26.25 55.00
28449-2	-1169.00	137.50	176.20	.00	.00	.00	.0	26.25 55.00
28449-3	-1169.00	137.50	176.20	.00	.00	.00	.0	26.25 55.00
28449-4	-1169.00	137.50	176.20	.00	.00	.00	.0	26.25 55.00
28449-5	-1421.00	992.50	55.00				20.0	26.25 55.00
28449-6	-716.00	980.00	55.00	.00	.00	.00	8.0	26.25 55.00
28449-7	-716.00	980.00	55.00	.00	.00	.00	8.0	26.25 55.00
28449-8	-716.00	985.00	55.00	.00	.00	.00	12.0	26.25 55.00
28450-1	-2263.00	318.70	-633.70	.00	.00	.00	.0	26.25 55.00
28450-2	-2263.00	318.70	-633.70	.00	.00	.00	.0	26.25 55.00
28450-3	-2263.00	318.70	-633.70	.00	.00	.00	.0	26.25 55.00
28450-4	-2263.00	318.70	-633.70	.00	.00	.00	.0	26.25 55.00
28450-5	-2263.00	318.70	-633.70	.00	.00	.00	.0	26.25 55.00
28450-6	-2263.00	318.70	-633.70	.00	.00	.00	.0	26.25 55.00
28450-7	-2263.00	318.70	-633.70	.00	.00	.00	.0	26.25 55.00
28450-8	-2263.00	318.70	-633.70	.00	.00	.00	.0	26.25 55.00

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----										TEMP
OPEN	CLOSE	EXPOSURE TIME		-G-										OP	CL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	
250:12:22:40:308			28451-1	L		FLARE	X	4	5	ML	6	X	H1	OK		
	22:40:464	0: 0:156	28451-2	L		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:22:40:558			28451-3	L		FLARE	X	4	5	ML	6	X	H1	OK		
	22:41:183	0: 0:625	28451-4	L		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:22:41:308			28451-5	L		FLARE	X	4	5	ML	6	X	H1	OK		
	22:43:656	0: 2:350	28451-6	L		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:22:43:808			28451-7	L		FLARE	X	4	5	ML	6	X	H1	OK		
	22:53:808	0:10: 0	28451-8	S		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:22:55:808			28451-9	S		FLARE	X	4	5	ML	6	X	H1	OK		
	22:56:120	0: 0:312	28452-1	S		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:22:56:208			28452-2	S		FLARE	X	4	5	ML	6	X	H1	OK		
	22:57:458	0: 1:200	28452-3	S		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:22:57:558			28452-4	S		FLARE	X	4	5	ML	6	X	H1	OK		
	23: 2:558	0: 5: 0	28452-5	S		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:23: 2:808			28452-6	S		FLARE	X	4	5	ML	6	X	H1	OK		
	23:22:808	0:20: 0	28452-7	S		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:23:24:608			28452-8	S		FLARE	X	4	5	ML	6	X	H1	OK		
	23:25: 58	0: 0:250	28452-9	S		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:23:25:308			28453-1	S		FLARE	X	4	5	ML	6	X	H1	OK		
	23:26:558	0: 1:250	28453-2	S		FLARE	X	4	5	ML	6	A	H1	OK	OK	
250:12:23:26:808			28453-3	S		FLARE	X	4	5	ML	6	A	H1	OK		
	23:31:808	0: 5: 0	28453-4	S		FLARE	X	4	5	ML	6	A	H1	OK	OK	
250:12:23:32: 58			28453-5	L		FLARE	X	4	5	ML	6	X	H1	OK		
	23:52: 58	0:20: 0	28453-6	L		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:23:54: 58			28453-7	L		FLARE	X	4	5	ML	6	X	H1	OK		
	23:54:214	0: 0:156	28453-8	L		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:23:54:415			28453-9	L		FLARE	X	4	5	ML	6	X	H1	OK		
	23:55: 40	0: 0:625	28454-1	L		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:23:55:200			28454-2	L		FLARE	X	4	5	ML	6	X	H1	OK		
	23:57:456	0: 2:258	28454-3	L		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:23:57:558			28454-4	L		FLARE	X	4	5	ML	6	X	H1	OK		
	24: 7:558	0:10: 0	28454-5	S		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:24: 9:558			28454-6	S		FLARE	X	4	5	ML	6	X	H1	OK		
	24:10:808	0: 1:250	28454-7	S		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:24:11: 58			28454-8	S		FLARE	X	4	5	ML	6	X	H1	OK		
	24:16: 58	0: 5: 0	28454-9	S		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:24:16:308			28455-1	S		FLARE	X	4	5	ML	6	X	H1	OK		
	24:36:308	0:20: 0	28455-2	S		FLARE	X	4	5	ML	6	X	H1	OK	OK	
250:12:24:36:558			28455-3	S		FLARE	X	4	5	ML	6	A	H1	OK		
	25:56:583	1:20: 25	28455-4	S		FLARE	X	4	5	ML	6	A	H1	OK	OK	

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INSTRUMENT OPERATION 5-22-75 AT 2 HOURS 55 MINS 48 SECS
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FRAME COUNT	----- EPC POINT ----- (ARCHINS) (ARCSEC)	----- MAX PT EXC ----- (ARCHINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCHINS)	ALTITUDE (KM)	Z (M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28451-1	-2263.00	318.70	-633.70				.0	.00
28451-2	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28451-3	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28451-4	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28451-5	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28451-6	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28451-7	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28451-8	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28452-1	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28452-2	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28452-3	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28452-4	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28452-5	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28452-6	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28452-7	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28452-8	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28453-1	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28453-2	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28453-3	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00
28453-4	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00

5-22-75 AT 2 HOURS 55 MINS 48 SECS

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S082B-EDB

INSTRUMENT OPERATION

5-22-75 AT 2 HOURS 55 MINS 48 SECS

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FRAME COUNT	----- EPE POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)	LIMB OFF	---NRL BIAS--- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.							
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXBI	GYBI	-BETA- OPEN	-Z- OPEN					
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)		
28453-5	-2263.00	318.70	-633.70				.0		26.25	55.00	-104.30	530.20	449.10	298.40	1673
28453-6	-2263.00	318.70	-633.70	.00	.00	.80	.0	.00	26.25	55.00	-104.30	531.40	449.10	298.90	1673
28453-7	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-104.30	534.60	449.10	300.20	1673
28453-8	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-104.70	544.90	448.10	304.00	1673
28454-1	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-105.30	1041.40	445.70	433.20	1673
28454-2	-2263.00	318.70	-633.70	.00	.00	.80	.0	.00	26.25	55.00	-105.30	1046.80	445.70	433.90	1673
28454-3	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-105.30	1066.70	445.70	436.10	1673
28454-4	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-105.30	1144.60	445.70	442.60	1673
28454-5	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-105.90	1459.30	443.10	430.00	1673
28454-6	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-105.90	1459.30	443.10	430.00	1673
28454-7	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-105.90	1459.30	443.10	430.00	1673
28454-8	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-105.90	1459.30	443.10	430.00	1673
28455-1	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-106.40	1921.70	440.20	307.40	1673
28455-2	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-106.40	1921.70	440.20	307.40	1673
28455-3	-2263.00	318.70	-633.70	.00	.00	.80	.0	.00	26.25	55.00	-106.40	1921.70	440.20	307.40	1673
28455-4	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-106.40	1921.70	440.20	307.40	1673
28455-5	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-106.90	2384.70	437.30	61.80	1673
28455-6	-2262.00	318.70	-633.70	.00	.00	.80	.0	.00	26.25	55.00	-106.90	2384.70	437.30	61.80	1673
28455-7	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-106.90	2384.70	437.30	61.80	1673
28455-8	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25	55.00	-106.90	2384.70	437.30	61.80	1673
				.00	.00	.00		.00	26.25	55.00					

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INSTRUMENT OPERATION

5-22-75

AT 2 HOURS 55 MINS 48 SECS

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FRAME COUNT	----- EPE (ARCMINS)	POINT (ARCSEC)	----- (ARCMINS)	MAX PT EXC (ARCSEC)	----- (ARCMINS)	LIMB OFF (ARCSEC)	---NRL BIAS--- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN	
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA) (BB) (CC)
28456-1	-2262.00	318.70	-633.70				.0		26.25 55.00	-107.40 3080.30	433.00 -527.50 1673
28456-2	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.40 3080.30	433.00 -527.50 1673
28456-3	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.40 3080.30	433.00 -527.50 1673
28456-4	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.40 3080.30	433.00 -527.50 1673
28456-5	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.50 3312.40	431.70 -779.20 1673
28456-6	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.50 3312.40	431.70 -779.20 1673
28456-7	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.50 3312.40	431.70 -779.20 1673
28456-8	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.50 3312.40	431.70 -779.20 1673
28457-1	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.50 3312.40	431.70 -779.20 1673
28457-2	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.50 3312.40	431.70 -779.20 1673
28457-3	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.50 3312.40	431.70 -779.20 1673
28457-4	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.50 3312.40	431.70 -779.20 1673
28457-5	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.60 3544.60	430.40 -1056.60 1673
28457-6	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.60 3544.60	430.40 -1056.60 1673
28457-7	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.60 3544.60	430.40 -1056.60 1673
28457-8	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.60 3544.60	430.40 -1056.60 1673
28458-1	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.60 3544.60	430.40 -1056.60 1673
28458-2	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.60 3544.60	430.40 -1056.60 1673
28458-3	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.60 3544.60	430.40 -1056.60 1673
28458-4	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.60 3544.60	430.40 -1056.60 1673
				.00	.00	.00	.00	.00	26.25 55.00		

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INSTRUMENT OPERATION 5-22-75 AT 2 HOURS 55 MINS 48 SECS
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FRAME COUNT	----- EPC (ARCHINS)	POINT (ARCSEC)	----- (ARCHINS)	MAX PT EXC (ARCSEC)	----- (ARCHINS)	LIMB OFF (ARCHINS)	---NRL BIAS--- (ARCSEC)	ANGLE (ARCHINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXBI	GYBI	-BETA- OPEN	-Z- OPEN	
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA) (BB) (CC)
28458-5	-2262.00	318.70	-633.70				.0	.00	26.25 55.00	-107.60 3544.60	430.40 -1056.60 1673
28458-6	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.60 3544.60	430.40 -1056.60 1673
28458-7	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.60 3544.60	430.40 -1056.60 1673
28458-8	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.70 3776.80	429.30 -1358.40 1673
28459-1	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.70 3776.80	429.30 -1358.40 1673
28459-2	-2262.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.70 3776.80	429.30 -1358.40 1673
28459-3	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.70 3777.00	429.30 394.40 1673
28459-4	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.80 4009.00	428.20 394.40 1673
28459-5	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.90 4241.00	427.30 394.40 1673
28459-6	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.90 4241.00	427.30 394.40 1673
28459-7	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.90 4241.00	427.30 394.40 1673
28459-8	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-107.90 4241.00	427.30 394.40 1673
28460-1	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-108.00 4703.00	425.70 394.40 1673
28460-2	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-108.00 4703.00	425.70 394.40 1673
28460-3	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-108.00 4703.00	425.70 394.40 1673
28460-4	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-108.00 4932.00	425.10 394.40 1673
28460-5	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-108.00 5153.00	424.60 394.40 1673
28460-6	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-108.00 5153.00	424.60 394.40 1673
28460-7	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-108.00 5153.00	424.60 394.40 1673
28460-8	-2263.00	318.70	-633.70	.00	.00	.00	.0	.00	26.25 55.00	-108.00 5153.00	424.60 394.40 1673

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INSTRUMENT OPERATION

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FRAME COUNT	----- EPE POINT ----- (ARCHINS) (ARCSEC)	----- MAX P1 EXC ----- (ARCHINS) (ARCSEC)	LIMB OFF		---NRL BIAS-- (ARCSEC)	ANGLE (ARCHINS)		ALTITUDE Z(M) (KM) (KM)	ORBIT NO.					
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN				
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)	
28461-1	-2263.00	318.70	-633.70				.0		26.25 55.00	-102.90	-446.30	451.90	394.40	1673
28461-2	-2263.00	318.70	-633.70	.00	.00	.80	.0	.00	26.25 55.00	-102.90	-446.30	451.90	394.40	1673
28461-3	-2263.00	318.70	-633.70	.00	.00	.80	.0	.00	26.25 55.00	-102.90	-446.30	451.90	394.40	1673
28461-4	-2263.00	318.70	-633.70	.00	.00	.80	.0	.00	26.25 55.00	-102.90	-446.30	451.90	394.40	1673
28461-5	-2263.00	318.70	-633.70	.00	.00	.80	.0	.00	26.25 55.00	-102.90	-446.30	451.90	394.40	1673
28461-6	-2263.00	318.70	-633.70	.00	.00	.80	.0	.00	26.25 55.00	-102.90	-446.30	451.90	394.40	1673
28461-7	-2263.00	318.70	-633.70	.00	.00	.80	.0	.00	26.25 55.00	-102.90	-446.30	451.90	394.40	1673
28461-8	-2263.00	318.70	-633.70	.00	.00	.80	.0	.00	26.25 55.00	-102.90	-446.30	451.90	394.40	1673
28462-1	-2263.00	318.70	-633.70	.00	.00	.80	.0	.00	26.25 55.00	-102.90	-446.30	451.90	394.40	1673
28462-2	-2263.00	318.70	-633.70	.00	.00	.80	.0	.00	26.25 55.00	-102.90	-446.30	451.90	394.40	1673
28462-3	-1126.00	523.70	-457.50	.00	.00	.80	.0	.00	26.25 55.00	-123.00	633.80	448.10	337.90	1673
28462-4	-1126.00	523.70	-457.50	.00	.00	.80	.0	.00	26.25 55.00	-125.80	3032.80	433.10	-479.70	1674
28462-5	-1126.00	523.70	-457.50	.00	.00	.80	.0	.00	26.25 55.00	-126.50	5164.20	424.00	-3582.50	1674
28462-6	-1125.00	523.70	-457.50	.00	.00	.80	.0	.00	26.25 55.00	-127.70	2871.30	427.70	-2584.90	1674
28462-7	-2333.50	343.80	8.80	.00	.00	1.25	.0	.00	26.25 55.00	-183.80	2314.90	429.60	92.00	1677
28462-8	-2333.50	343.80	8.80	.00	.00	.80	.0	.00	26.25 55.00	-184.00	2083.50	430.30	221.00	1677
28463-1	-964.00	972.50	55.00	.00	.00	.80	-4.0	.00	26.25 55.00	-272.70	1956.80	439.50	292.30	1681
28463-2	-964.00	972.50	55.00	.00	.00	.80	-4.0	.00	26.25 55.00	-272.90	2187.50	438.00	180.30	1681
28463-3	-964.00	976.20	55.00	.00	.00	.80	.0	.00	26.25 55.00	-273.70	3340.40	431.00	-812.40	1681
28463-4	-964.00	976.20	55.00	.99	.00	.80	-1.0	.00	26.25 55.00	-273.80	3570.40	429.80	-1090.10	1681
				.00	.00	.80	1.00		26.25 55.00					

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INSTRUMENT OPERATION

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FRAME COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28463-5	-963.00	978.70	55.00				3.0	
28463-6	-963.00	978.70	55.00	.99	.00	.00	3.0	.00
28463-7	-963.00	983.70	55.00	1.32	.00	.00	8.0	.00
28463-8	-963.00	983.70	55.00	.99	.00	.80	8.0	.00
28464-1	-963.00	987.50	55.00	.99	.00	.80	11.0	.00
28464-2	-963.00	987.50	55.00	.99	.00	.00	11.0	.00
28464-3	-962.00	998.70	55.00	.99	.00	.00	20.0	.00
28464-4	-962.00	996.20	55.00	1.32	2.50	.00	20.0	.00
28464-5	713.00	853.70	-65.00	.99	.00	.00	.0	.00
28464-6	713.00	853.70	-65.00	.00	.00	.80	.0	.00
28464-7	16.00	843.80	-236.20	.00	.00	.00	.0	.00
28464-8	16.00	843.80	-236.20	.00	.00	.00	.0	.00
28465-1	3954.00	353.70	76.20	.00	.00	.00	.0	.00
28465-2	3954.00	353.70	76.20	.99	.00	.00	.0	.00
28465-3	17.00	6.30	555.00	.99	.00	.00	.0	.00
28465-4	17.00	-2.50	555.00	.66	45.00	.80	.0	.00
28465-5	17.00	55.00	555.00	.66	65.00	.00	.0	.00
28465-6	600.20	886.20	-93.80	.66	65.00	5.00	.0	.00
28465-7	600.20	886.20	-93.80	.00	.00	.80	.0	.00
28465-8	600.20	553.70	341.20	.00	.00	.00	.0	.00
				.00	.00	.80		.00

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INSTRUMENT OPERATION 5-22-75 AT 2 HOURS 55 MINS 48 SECS
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INSTRUMENT OPERATION

5-22-75

AT 2 HOURS 55 MINS 48 SECS

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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	----- (ARCSEC)	MAX PT EXC (ARCMINS)	----- (ARCSEC)	LIMB OFF	---NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXBI	GYBI	-BETA- OPEN	-Z- OPEN	
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA) (BB) (CC)
28468-5	634.00	981.00	55.00				.0	.00	26.25 55.00	-660.00 1200.00	432.90 432.20 1701
28468-6	633.00	981.00	55.00	.00	.00	.00	.0	.00	26.25 55.00	-660.00 530.00	434.10 289.90 1701
28468-7	-6052.00	-320.00	-175.00	.00	.00	.00	.0	.00	26.25 55.00	-678.00 1928.90	431.10 290.90 1702
28468-8	-6052.00	-320.00	-175.00	.00	.00	.00	.0	.00	26.25 55.00	-678.30 1703.30	431.70 367.50 1702
28469-1	-1119.60	997.50	101.20	.00	.00	.00	.0	.00	26.25 55.00	-715.50 889.30	433.60 399.50 1704
28469-2	-1119.60	997.50	101.20	.00	.00	.00	.0	.00	26.25 55.00	-716.20 436.80	434.30 251.80 1704
28469-3	-1119.60	997.50	101.20	.99	.00	.00	.0	.00	26.25 55.00	-716.60 210.40	434.50 134.50 1704
28469-4	-5806.00	-283.70	-475.00	.99	.00	.00	.0	.00	26.25 55.00	-767.50 2369.60	429.90 58.20 1706
28469-5	-5806.00	-283.70	-475.00	.00	.00	.00	.0	.00	21.25 57.50	-767.50 2369.60	429.90 58.20 1706
28469-6	-6632.00	-407.50	-418.70	.00	.00	.00	.0	.00	21.25 57.50	-778.90 6650.20	452.00 330.20 1707
28469-7	-6632.00	-407.50	-417.50	.00	.00	.00	.0	.00	21.25 57.50	-779.80 -123.00	449.80 445.40 1707
28469-8	-6632.00	-406.30	-413.70	.00	.00	.00	.0	.00	21.25 57.50	-782.30 1744.30	438.90 408.10 1707
28470-1	-1660.00	632.00	-712.00	.00	.00	.00	.0	.00	21.25 57.50	-814.80 -387.70	451.50 408.10 1709
28470-2	-1660.00	626.00	-722.00	.00	.00	.00	.0	.00	21.25 57.50	-816.20 303.90	447.60 189.70 1709
28470-3	-1660.00	626.00	-722.00	.00	.00	.00	.0	.00	21.25 57.50	-817.10 1023.00	443.70 429.20 1709
28470-4	1057.00	982.00	-8.80	.00	.00	.00	.0	.00	21.25 57.50	-817.80 1648.00	439.30 391.70 1709
28470-5	1057.00	982.00	-8.80	.00	.00	.00	.0	.00	21.25 57.50	-818.10 1871.00	437.80 323.00 1709
28470-6	1369.00	637.00	63.70	.00	.00	.00	4.0	.00	21.25 57.50	-819.70 4445.00	424.30 -2355.00 1709
28470-7	1369.00	637.00	63.70	.00	.00	.00	4.0	.00	21.25 57.50	-819.60 4166.00	424.80 -1893.00 1709
28470-8	1369.00	637.00	63.70	.00	.00	.00	8.0	.00	21.25 57.50	-820.10 3360.00	426.90 -844.54 1709
				.00	.00	.00		.00	21.25 57.50		

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INSTRUMENT OPERATION
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[illegible]

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INSTRUMENT OPERATION 5-22-75 AT 2 HOURS 55 MINS 48 SECS
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FRAME COUNT	----- EPC POINT ----- (ARCHINS) (ARCSEC)	----- MAX PT EXC ----- (ARCHINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.							
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN					
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)			(Y)	(Z)	(AA)	(BB)	(CC)
28471-1	1369.00	971.20	63.70				8.0		21.25	57.50	-820.10	2715.00	428.70	-198.80	1709
28471-2	1369.00	971.10	63.70	.00	.00	.00	20.0	.00	21.25	57.50	-821.70	2053.00	430.70	236.20	1709
28471-3	1369.00	971.20	63.70	.00	.00	.00	20.0	.00	21.25	57.50	-821.30	766.90	433.30	236.20	1709
28471-4	1369.00	971.20	63.70	.00	.00	.00	.0	.00	21.25	57.50	-823.10	60.00	433.30	370.80	1709
28471-5	1369.00	971.20	63.70	.00	.00	.00	.0	.00	21.25	57.50	-824.90	+191.10	434.60	424.10	1709
28471-6	1369.00	971.20	63.70	.00	.00	.00	.0	.00	21.25	57.50	-824.90	-191.10	434.60	424.10	1709
28471-7	.00	620.00	-214.00	.00	.00	.00	.0	.00	21.25	57.50	-835.10	1308.00	442.50	441.40	1710
28471-8	.00	620.00	-214.00	.00	.00	.00	.0	.00	21.25	57.50	-836.40	2486.00	433.70	-136.70	1710
28472-1	.00	620.00	-214.00	.00	.00	.00	.0	.00	21.25	57.50	-836.90	3558.00	427.70	-1666.40	1710
28472-2	3501.00	546.00	461.00	.00	.00	.00	.0	.00	21.25	57.50	-837.30	4327.00	424.70	-1666.40	1710
28472-3	3501.00	546.00	461.00	.00	.00	.00	.0	.00	21.25	57.50	-837.40	4170.00	424.80	-1666.40	1710
28472-4	3501.00	546.00	461.00	.00	.00	.00	.0	.00	21.25	57.50	-837.50	3993.00	425.20	-1666.40	1710
28472-5	3501.00	546.00	461.00	.00	.00	.00	.0	.00	21.25	57.50	-837.50	2775.00	428.70	-1666.40	1710
28472-6	3501.00	546.00	461.00	.00	.00	.00	.0	.00	21.25	57.50	-846.90	888.00	433.20	-1666.40	1710
28472-7	1020.70	953.70	98.70	.00	.00	.00	.0	.00	21.25	57.50	-926.10	3894.50	426.00	-1527.20	1715
28472-8	1020.40	953.70	98.70	.00	.00	.00	.0	.00	21.25	57.50	-926.10	3894.50	426.00	-1527.20	1715
28473-1	2832.40	541.20	223.70	.00	.00	.00	.0	.00	21.25	57.50	-927.50	2739.30	428.80	-219.50	1715
28473-2	2832.40	541.20	223.70	.00	.00	.00	.0	.00	21.25	57.50	-927.50	2739.30	428.80	-219.50	1715
28473-3	2936.30	635.00	412.50	.00	.00	.00	.0	.00	21.25	57.50	-929.60	1032.30	432.70	421.30	1715
28473-4	2936.30	635.00	412.50	.00	.00	.00	.0	.00	21.25	57.50	-929.90	980.50	433.20	414.80	1715
				.00	.00	.00		.00	21.25	57.50					

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INSTRUMENT OPERATION

5-22-75 AT 2 HOURS 55 MINS 48 SECS

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----									TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G#										OP	CL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	
253:14: 8:54: 8			26473-5	S	LH SC	MAN	X	X	5	MA	6	X	H1	OK	OK	
	11:33:258	2:39:250														
253:15: 5:14: 8			26473-6	S	LH SC	MAN	X	X	5	MA	6	X	H1	OK	OK	
	5:53:258	6:39:250														
253:15: 6:59:508			26473-7	L	LH SC	MAN	X	X	5	MA	6	X	H1	OK	OK	
	7: 0:258	6: 0:750														
253:15: 8:52: 8			26473-8	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK	
	9:31:258	6:39:250														
253:15: 9:38:758			26474-1	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK	
	9:39:258	6: 0:500														
253:15:11: 1:258			26474-2	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK	
	13:41:258	2:40: 0														
253:15:14:36:758			26474-3	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK	
	17:16:258	2:39:500														
253:15:20:19:662			26474-4	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK	
	25:19: 63	4:59:461														
253:15:25:39:812			26474-5	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK	
	28:19: 57	2:39:245														
253:15:30:11:758			26474-6	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK	
	40:11: 22	9:59:264														
253:15:40:44:938			26474-7	L	LMB PT	MAN	X	X	5	ML	6	X	H1	OK	OK	
	45:44: 8	4:59: 70														
253:16:33:52:258			26474-8	L	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK	OK	
	33:56:508	6: 4:250														
253:16:34: 0: 8			26475-1	S	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK	OK	
	34:16: 8	6:16: 0														
253:16:34:17:758			26475-2	L	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK	OK	
	34:32: 8	6:14:250														
253:16:35: 3:508			26475-3	L	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK	OK	
	35: 7:508	6: 4: 0														
253:16:35: 9:258			26475-4	S	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK	OK	
	35:25:508	6:16:250														
253:16:35:27:258			26475-5	L	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK	OK	
	35:43:508	6:16:250														
253:16:35:45:258			26475-6	S	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK	OK	
	36:49:258	1: 4: 0														
253:16:36:51: 8			26475-7	L	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK	OK	
	37:55: 8	1: 4: 0														
253:16:37:56:758			26475-8	S	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK	OK	
	42:13: 8	4:16:250														

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INSTRUMENT OPERATION

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FRAME COUNT	----- EPC POINT ----- (ARCHINS) (ARCSEC)	----- MAX PT EXC ----- (ARCHINS) (ARCSEC)		LIMB OFF		--NRL BIAS-- (ARCSEC)		ANGLE (ARCHINS)		ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.		
	GAMRR	GAMX	GANY	GAMRR	GAMX	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
28473-5	1505.00	995.00	31.30				25.0		21.25 57.50	-965.80	628.60	433.70	328.60	1717
28473-6	1075.00	966.20	100.00	.99	.00	.00	-4.0	1.00	21.25 57.50	-977.80	1654.40	438.50	389.00	1717
28473-7	1075.00	966.20	100.00	.00	.00	.00	-5.0	.00	21.25 57.50	-978.00	1873.80	437.00	320.70	1717
28473-8	1075.00	966.20	100.00	.00	.00	.00	1.0	.00	21.25 57.50	-978.30	2309.60	434.10	103.30	1717
28474-1	1075.00	966.20	100.00	.00	.00	.00	1.0	.00	21.25 57.50	-978.50	2525.50	432.70	-43.70	1717
28474-2	1075.00	966.20	100.00	.00	.00	.00	5.0	.00	21.25 57.50	-978.70	2950.90	430.20	-406.50	1717
28474-3	1075.00	966.20	100.00	.33	.00	.00	5.0	.00	21.25 57.50	-978.90	3560.50	427.10	-1084.40	1718
28474-4	1076.00	966.20	100.00	.00	.00	.00	9.0	.00	21.25 57.50	-979.10	4401.40	424.30	-2285.50	1718
28474-5	1076.00	966.20	100.00	.00	.00	.00	10.0	.00	21.25 57.50	-979.40	4017.20	425.20	-1702.70	1718
28474-6	1077.00	966.20	100.00	.33	2.50	.00	19.0	1.00	21.25 57.50	-980.10	3065.00	427.90	-523.30	1718
28474-7	1077.00	966.20	100.00	.00	.00	.00	19.0	.00	21.25 57.50	-983.00	895.50	433.40	400.60	1718
28474-8	88.00	998.70	97.50	.00	.00	.00	26.0	.00	21.25 57.50	-994.00	503.10	446.00	285.70	1718
28475-1	88.00	998.70	97.50	.00	.00	.00	26.0	.00	21.25 57.50	-994.30	724.10	444.70	365.60	1718
28475-2	88.00	998.70	97.50	.33	.00	.00	26.0	.00	21.25 57.50	-994.30	724.10	444.70	365.60	1718
28475-3	88.00	998.70	97.50	.00	.00	.00	26.0	.00	21.25 57.50	-994.60	945.00	443.20	417.10	1718
28475-4	88.00	998.70	97.50	.00	.00	.00	26.0	.00	21.25 57.50	-994.60	945.00	443.20	417.10	1718
28475-5	88.00	998.70	97.50	.00	.00	.00	26.0	.00	21.25 57.50	-994.60	945.00	443.20	417.10	1718
28475-6	88.00	998.70	97.50	.33	.00	.00	26.0	.00	21.25 57.50	-994.60	945.00	443.20	417.10	1718
28475-7	88.00	998.70	97.50	.33	.00	.00	26.0	.00	21.25 57.50	-994.90	1165.60	441.80	440.00	1718
28475-8	88.00	998.70	97.50	.33	.00	.00	26.0	.00	21.25 57.50	-995.20	1385.90	440.30	434.30	1718
				.33	.00	.00		.00	21.25 57.50					

SD 828-EDB

INSTRUMENT OPERATION

5-22-75 AT 2 HOURS 55 MINS 48 SECS

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INSTRUMENT OPERATION 5-22-75 AT 2 HOURS 55 MINS 48 SECS
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FRAME COUNT	----- EPC (ARCHINS)	PCINT (ARCSEC)	----- (ARCHINS)	MAX PT EXC (ARCSEC)	----- (ARCHINS)	LIMB OFF (X)	---NRL BIAS--- (ARCSEC)	ANGLE (ARCHINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.	
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA) (BB) (CC)	
2B476-1	88.00	998.70	97.50				26.0		21.25 57.50	-996.10	2475.90	433.00 -7.80 1718
2B476-2	88.00	998.70	97.50	.33	.00	.80	26.0	.00	21.25 57.50	-996.50	3313.00	428.20 -788.00 1718
2B476-3	1744.00	992.00	86.70	246.53	.00	.00	.0	.00	21.25 57.50	-1047.70	1095.30	442.00 756.00 1721
2B476-4	-4928.00	18.80	25.00	.00	.00	.00	.0	.00	21.25 57.50	-1100.40	1316.30	440.20 438.70 1724
2B476-5	-4928.00	18.80	25.00	.00	.00	.00	.0	.00	21.25 57.50	-1100.40	1316.30	440.20 438.70 1724
2B476-6	-8401.00	-597.50	-123.70	.00	.00	.00	.0	.00	21.25 57.50	-1102.50	3677.80	426.10 -1236.10 1724
2B476-7	-8401.00	-597.50	-123.70	.00	.00	.00	.0	.00	21.25 57.50	-1102.50	3677.80	426.10 -1236.10 1724
2B476-8	-177.00	768.70	-196.20	.00	.00	.00	.0	.00	21.25 57.50	-1104.40	1855.50	431.40 319.10 1724
2B477-1	-177.00	768.70	-196.20	.00	.00	.00	.0	.00	21.25 57.50	-1104.40	1855.50	431.40 319.10 1724
2B477-2	-8450.00	-640.00	-160.00	.00	.00	.00	.0	.00	21.25 57.50	-1208.00	2101.00	430.80 212.90 1730
2B477-3	-963.00	-611.00	395.00	.00	.00	.00	.0	.00	21.25 57.50	-1211.00	365.60	433.70 217.80 1730
2B477-4	-45.00	55.00	557.50	.00	.00	.00	.0	.00	21.25 57.50	-1240.00	2417.10	432.00 30.70 1731
2B477-5	-45.00	-11.20	557.50	.00	.00	.00	.0	.00	21.25 57.50	-1240.10	2621.50	430.80 -120.00 1732
2B477-6	-45.00	52.50	557.50	.66	56.25	.00	.0	.00	21.25 57.50	-1240.20	2822.50	429.60 -289.70 1732
2B477-7	-45.00	688.70	-260.00	.00	58.75	.00	.0	.00	21.25 57.50	-1240.60	4067.40	424.90 -1776.20 1732
2B477-8	681.00	885.00	41.20	.00	.00	.00	.0	.00	21.25 57.50	-1325.80	2773.90	429.40 -247.70 1736
2B478-1	681.00	885.00	41.20	.00	.00	.00	.0	.00	21.25 57.50	-1325.80	2773.90	429.40 -247.70 1736
2B478-2	2620.00	758.70	506.20	.00	.00	.00	.0	.00	21.25 57.50	-1326.10	3791.50	425.00 -1389.00 1736
2B478-3	2620.00	758.70	506.20	.00	.00	.00	.0	.00	21.25 57.50	-1326.10	3791.50	425.00 -1389.00 1736
2B478-4	1266.00	953.70	102.50	.00	.00	.00	.0	.00	21.25 57.50	-1326.50	3648.50	426.10 -1198.20 1736
				.00	.00	.00	.00	.00	21.25 57.50			

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INSTRUMENT OPERATION 5-22-75 AT 2 HOURS 55 MINS 48 SECS
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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRSI)		----- OP EXP -----							TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G#										OP	CL
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
254:22:31: 5:676			28478-5	S		MAN	X	X	5	MA	6	X	H1	OK	OK
	31:45: 92	0:39:416													
254:22:37:38:657			28478-6	S		MAN	X	X	5	MA	6	X	H1	OK	OK
	37:46: 75	0: 9:418													
254:22:37:55:657			28478-7	S		MAN	X	X	5	MA	6	X	H1	OK	OK
	38:35: 72	0:39:415													
254:23:45: 9:880			28478-8	S	LMB PT	MAN	X	X	5		6	X	H1	OK	XX
	45:48:880	0:39: C													
254:23:45:56:908			28479-1	L	LMB PT	MAN	X	X	5		6	X	H1	OK	OK
	45:59:158	0: 0:250													
254:23:47:48:658			28479-2	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK
	48:28:156	0:39:500													
254:23:48:38:705			28479-3	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK
	48:38:788	0: 0: 83													
254:23:49:47:950			28479-4	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK
	52:27:857	2:39:907													
254:23:52:50:606			28479-5	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK
	55:29:848	2:39:242													
254:23:55:44: 14			28479-6	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK
	58:24: 93	2:40: 79													
255: 0: 0: 6:909			28479-7	S	LMB PT	MAN	X	X	5	ML	6	X	H1	OK	OK
	5: 5:909	4:59: C													
255: 0: 5:25:409			28479-8	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK
	8: 4:909	2:39:500													
255: 0: 8:31:159			28480-1	S	LMB PT	MAN	X	4	5	G3	6	X	H1	OK	OK
	18:30:784	9:59:625													
255: 0:19:14:449			28480-2	L	LMB PT	MAN	X	4	5	G3	6	X	H1	OK	OK
	24:13:851	4:59:402													
255:15:11:39:391			28480-3	S	LMB PT	MAN	X	X	5	MA	6	X	H1	OK	OK
	21:38:861	9:59:470													
255:15:22:35:358			28480-4	L	LMB PT	MAN	X	X	5	MA	6	X	H1	OK	OK
	27:34:842	4:59:484													
255:18:48:38:659			28480-5	S		MAN	X	X	5	ML	6	X	H1	OK	OK
	51:18:569	2:39:910													
255:18:54:33:208			28480-6	S		MAN	X	X	5	G5	6	X	H1	OK	OK
	57:12:551	2:39:343													
255:18:59: 9:125			28480-7	S		MAN	X	X	5	G5	6	X	H1	OK	OK
	1:48:533	2:39:408													
255:22: 6: 1:253			28480-8	S	BORE	MAN	X	X	5	M3	6	X	H1	OK	OK
	6:11: 85	0: 9:832													

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FRAME COUNT	----- EPC (ARCHINS)	POINT (ARCSEC)	----- (ARCHINS)	MAX PT EXC (ARCSEC)	----- (ARCHINS)	LIMB OFF (X)	---NRL BIAS-- (ARCHINS)	ANGLE (ARCHINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.	
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA) (BB) (CC)	
2B478-5	1266.00	953.70	102.50				.0		21.25 57.50	-1326.70	3493.60	426.70 -1003.40 1736
2B478-6	2438.00	721.20	351.20	.00	.00	.00	.0	.00	21.25 57.50	-1327.90	2373.00	430.20 56.40 1736
2B478-7	2438.00	721.20	351.20	.00	.00	.00	.0	.00	21.25 57.50	-1327.90	2373.00	430.20 56.40 1736
2B478-8	933.00	966.20	56.30	.00	.00	.00	-4.0	.00	21.25 57.50	-1342.30	2122.90	433.10 205.90 1737
2B479-1	933.00	966.20	56.30	.00	.00	.00	-4.0	.00	21.25 57.50	-1342.30	2122.90	433.10 205.90 1737
2B479-2	933.00	971.20	56.30	.00	.00	.00	1.0	.00	21.25 57.50	-1342.60	2528.10	430.50 -49.80 1737
2B479-3	933.00	971.20	56.30	.00	.00	.00	.0	1.00	21.25 57.50	-1342.70	2725.50	429.40 -206.80 1737
2B479-4	934.00	971.20	56.30	.00	.00	.00	4.0	.00	21.25 57.50	-1342.70	2918.30	428.30 -379.70 1737
2B479-5	934.00	971.20	56.30	.00	.00	.00	4.0	.00	21.25 57.50	-1342.90	3453.60	425.90 -957.20 1737
2B479-6	935.00	971.20	56.30	.00	.00	.00	4.0	.00	21.25 57.50	-1343.00	3870.20	424.50 -1497.40 1737
2B479-7	935.00	971.20	56.30	.00	.00	.00	8.0	.00	21.25 57.50	-1343.10	3991.00	424.70 -1666.40 1737
2B479-8	936.00	971.20	56.30	.00	.00	.00	8.0	.00	21.25 57.50	-1343.60	3351.70	427.00 -835.00 1737
2B480-1	936.00	971.20	56.30	.00	.00	.00	20.0	.00	21.25 57.50	-1344.20	2803.50	428.80 -274.80 1737
2B480-2	937.00	971.20	56.30	.00	.00	.00	20.0	.00	21.25 57.50	-1347.50	476.40	433.50 269.20 1737
2B480-3	680.30	988.70	63.70	.00	.00	.00	18.0	.00	21.25 57.50	-1508.90	948.10	441.50 416.30 1746
2B480-4	679.90	988.70	63.70	.00	.00	.00	18.0	.00	21.25 57.50	-1510.50	2986.30	427.20 -447.10 1746
2B480-5	1261.00	870.00	168.70	.00	.00	.00	.0	.00	20.00 57.50	-1545.50	2449.20	430.00 5.30 1749
2B480-6	638.00	933.70	60.00	.00	.00	.00	.0	.00	20.00 57.50	-1547.30	1257.40	432.50 432.30 1749
2B480-7	638.00	953.70	51.20	.00	.00	.00	.0	.00	20.00 57.50	-1548.90	222.50	433.30 141.30 1749
2B480-8	-278.00	-23.70	497.50	.00	.00	.00	.0	.00	20.00 57.50	-1582.00	104.60	433.30 69.80 1751
				.00	53.75	.00	.00	.00	20.00 57.50			

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)	----- OP EXP -----									TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G-										OP	CL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	
255:22: 6:33:584			28481-1	S	BORE	MAN	X	X	5	M3	6	X	H1	OK	OK	
	7:13: 83	0:39:499														
255:22: 7:33: 83			28481-2	S	BORE	MAN	X	X	5	M3	6	X	H1	OK	OK	
	10:12: 77	2:38:994														
255:23: 8:29:708			28481-3	S		MAN	X	X	5	MA	6	X	H1	OK	OK	
	8:38:958	0: 9:250														
255:23: 8:57:458			28481-4	S		MAN	X	X	5	MA	6	X	H1	OK	OK	
	9:36:956	0:39:500														
255:23:15:28:208			28481-5	S		MAN	X	X	5	MA	6	X	H1	OK	OK	
	15:37:958	0: 9:750														
255:23:16: 0:958			28481-6	S		MAN	X	X	5	MA	6	X	H1	OK	OK	
	16:39:958	0:39: 0														
255:23:23:30:958			28481-7	S		MAN	X	X	5	MA	6	X	H1	OK	OK	
	23:39:958	0: 9: 0														
255:23:23:44:708			28481-8	S		MAN	X	X	5	MA	6	X	H1	OK	OK	
	24:23:958	0:39:250														
255:23:30:58:594			28482-1	S		MAN	X	X	5	MA	6	X	H1	OK	OK	
	31: 7:843	0: 9:249														
255:23:31:24:426			28482-2	S		MAN	X	X	5	MA	6	X	H1	OK	OK	
	32: 3:840	0:39:414														
256:21:23:47:299			28482-3	S		MAN	X	X	5	MA	6	X	H1	OK	OK	
	26:26:876	2:39:577														
257: 0: 6:41:163			28482-4	S	LM SC	MAN	X	X	5	ML	6	X	H1	OK	OK	
	7:20:994	0:39:831														
257: 0: 7:33:411			28482-5	L	LM SC	MAN	X	X	5	ML	6	X	H1	OK	OK	
	7:33:994	0: 0:583														
257: 0:10:51:258			28482-6	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK	
	10:51:758	0: 0:500														
257: 0:11: 6:508			28482-7	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK	
	11:45:508	0:39: 0														
257: 0:13:49: 8			28482-8	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK	
	16:28:508	2:39:500														
257: 0:17:20:508			28483-1	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK	
	20: 0:508	2:40: 0														
257: 0:21: 2:508			28483-2	L	LMB PT	MAN	X	X	5	M3	6	X	H1	OK	OK	
	23:41:449	2:38:941														
257: 0:24: 3:114			28483-3	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	OK	
	29: 2:431	4:59:317					</									

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FRAME COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	----- MAX PT EXC ----- (ARCMINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28481-1	-278.00	-31.30	497.50	.00	68.75	.00	.0	.00
28481-2	-278.00	20.00	497.50	.00	75.00	.00	.0	.00
28481-3	809.00	955.00	95.00	.00	.00	.00	.0	.00
28481-4	809.00	955.00	95.00	.00	.00	.00	.0	.00
28481-5	809.00	955.00	95.00	.00	.00	.00	.0	.00
28481-6	809.00	955.00	95.00	.00	.00	.00	.0	.00
28481-7	1160.00	968.80	58.70	.00	.00	.00	.0	.00
28481-8	1160.00	968.80	58.70	.00	.00	.00	.0	.00
28482-1	1843.00	846.20	300.00	.00	.00	.00	.0	.00
28482-2	1843.00	846.20	300.00	.00	.00	.00	.0	.00
28482-3	-772.00	-920.00	93.80	.00	.00	.00	.0	.00
28482-4	852.00	966.20	38.70	.00	.00	.00	-3.0	.00
28482-5	852.00	966.20	38.70	.00	.00	.00	-3.0	1.00
28482-6	852.00	966.20	38.70	.00	.00	.00	.0	.00
28482-7	852.00	966.20	38.70	.00	.00	.00	.0	.00
28482-8	852.00	966.20	38.70	.00	.00	.00	4.0	.00
28483-1	852.00	966.20	38.70	.00	.00	.00	4.0	.00
28483-2	852.00	966.20	38.70	.00	.00	.00	8.0	.00
28483-3	852.00	966.20	38.70	.00	.00	.00	8.0	.00
28483-4	852.00	966.20	38.70	.00	.00	.00	20.0	.00
				.00	.00	.00		.00

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FRAME	----- EPC POINT -----			---- MAX PT EXC ----			LIMB OFF	--NRL BIAS--		ANGLE		ALTITUDE	Z(M)	ORBIT
COUNT (ARCMINS)	(ARCSEC)			(ARCMINS)			(ARCSEC)	(ARCSEC)		(ARCMINS)		(KM)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		GXB1	GYB1	-BETA- OPEN	-Z- OPEN			
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA)	(BB)	(CC)
2B483-5	.00	20.00	558.70				.0	20.00	57.50	-1863.80	3254.30	427.10	-725.20	1767
2B483-6	.00	41.20	558.70	.00	.00	.00	.0	20.00	57.50	-1863.90	3138.30	427.60	-599.40	1767
2B483-7	.00	50.00	558.70	.00	68.75	.00	.0	20.00	57.50	-1863.90	3138.30	427.60	-599.40	1767
2B483-8	1033.20	966.20	112.50	.00	82.50	.00	.0	20.00	57.50	-1974.40	605.10	432.50	319.70	1774
2B484-1	1033.20	966.20	112.50	.00	.00	.00	.0	20.00	57.50	-1974.40	605.10	432.50	319.70	1774
2B484-2	1033.90	943.70	6.80	.00	.00	.00	.0	20.00	57.50	-1975.80	11069.80	432.70	297.70	1774
2B484-3	663.00	966.20	57.50	.00	.00	.00	-4.0	20.00	57.50	-1984.80	2097.10	429.40	212.70	1774
2B484-4	663.00	966.20	57.50	.00	.00	.00	-5.0	20.00	57.50	-1984.80	2097.10	429.40	212.70	1774
2B484-5	663.00	966.20	57.50	.00	.00	.00	-1.0	20.00	57.50	-1984.90	2432.60	427.60	12.10	1775
2B484-6	663.00	966.20	57.50	.00	.00	.00	-1.0	20.00	57.50	-1984.90	2432.60	427.60	12.10	1775
2B484-7	663.00	966.20	57.50	.00	.00	.00	3.0	20.00	57.50	-1985.00	2590.40	426.90	-103.50	1775
2B484-8	663.00	966.20	57.50	.00	.00	.00	3.0	20.00	57.50	-1985.00	3121.20	425.20	-586.90	1775
2B485-1	663.00	966.20	57.50	.00	.00	.00	7.0	20.00	57.50	-1985.00	3408.20	425.60	-903.80	1775
2B485-2	663.00	966.20	57.50	.00	.00	.00	7.0	20.00	57.50	-1985.20	3306.70	426.80	-784.30	1775
2B485-3	663.00	966.20	57.50	.00	.00	.00	19.0	20.00	57.50	-1986.60	2293.10	430.60	107.10	1775
2B485-4	663.00	966.20	57.50	.00	.00	.00	19.0	20.00	57.50	-1989.90	262.10	432.50	163.40	1775
2B485-5	1356.00	1003.70	55.00	.00	.00	.00	32.0	20.00	57.50	-1999.90	2696.20	426.40	-188.50	1775
2B485-6	1356.00	1003.70	55.00	.00	.00	.00	32.0	20.00	57.50	-1999.90	2837.40	425.90	-310.80	1775
2B485-7	1356.00	1003.70	55.00	.00	.00	.00	32.0	20.00	57.50	-1999.90	2837.40	425.90	-310.80	1775
2B485-8	1356.00	1003.70	55.00	.00	.00	.00	32.0	20.00	57.50	-1999.90	2837.40	425.90	-310.80	1775
				.00	.00	.00		20.00	57.50					

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE		----- OP EXP -----								TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G-										OP	CL	
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	
257:15:34:43:808			28486-1	L	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK		
	35:47:889	1: 4: 81													OK	
257:15:35:49:554			28486-2	S	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK		
	40: 5:794	4:16:240													OK	
257:15:40: 7:460			28486-3	L	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK		
	44:23:528	4:16: 66													OK	
257:15:44:25:111			28486-4	S	LMB PT	AUTO	X	X	5	MA	6	X	H1	OK		
	1:29:758	17: 4:647													OK	
257:18:35:28:807			28486-5	S	LMB PT	MAN	X	X	5	MA	6	X	H1	OK		
	36: 8:807	0:40: 0													OK	
257:18:36:19:557			28486-6	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK		
	36:20: 57	0: 0:500													OK	
257:18:37:51: 0			28486-7	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK		
	37:51: 0	0: 0: 0													OK	
257:18:37:51:307			28486-8	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK		
	38:30:807	0:39:500													OK	
257:18:39:37:500			28487-1	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK		
	39:37:500	0: 0: 0													OK	
257:18:39:37:807			28487-2	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK		
	42:16:807	2:39: 0													OK	
257:18:42:25:557			28487-3	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK		
	45: 4:840	2:39:283													OK	
257:18:45:46:920			28487-4	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK		
	50:45:821	4:58:901													OK	
257:18:51: 8:570			28487-5	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK		
	53:47:816	2:39:246													OK	
257:18:54:22:807			28487-6	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK		
	4:22:807	10: 0: 0													OK	
257:19: 4:33:807			28487-7	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK		
	9:32:770	4:58:963													OK	
257:23:17:49:381			28487-8	S		MAN	X	X	5	MA	6	X	H1	OK		
	18:29:128	0:39:747													OK	
257:23:18:43:711			28488-1	S		MAN	X	X	5	MA	6	X	H1	OK		
	21:23:121	2:39:410													OK	
258:19:39:16:267			28488-2	S		MAN	X	X	5	ML	6	X	H1	OK		
	41:55:257	2:38:990													OK	
258:19:46:21:414			28488-3	S		MAN	X	X	5	ML	6	X	H1	OK		
	47: 1:246	0:39:832													OK	
258:19:47:32:858			28488-4	S		MAN	X	X	5	ML	6	X	H1	OK		
	47:42:358	0: 9:500													OK	

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FRAME	----- EPC POINT -----	----- MAX PT EXC -----	LIMB OFF	---NRL BIAS---	ANGLE	ALTITUDE	Z(M)	ORBIT
COUNT (ARCMINS)	(ARCSEC)	(ARCMINS) (ARCSEC)		(ARCSEC)	(ARCMINS)	(KM)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28486-1	1356.00	1003.70	55.00				32.0	20.00 57.50
28486-2	1356.00	1003.70	55.00	.00	.00	.00	33.0	20.00 57.50
28486-3	1357.00	1003.70	55.00	.00	.00	.00	32.0	20.00 57.50
28486-4	1358.00	1003.70	55.00	.00	.00	.00	32.0	20.00 57.50
28486-5	803.90	967.50	57.50	.00	.00	.00	-5.0	20.00 57.50
28486-6	803.90	967.50	57.50	.00	.00	.00	-5.0	20.00 57.50
28486-7	803.90	967.50	57.50	.00	.00	.00	.0	20.00 57.50
28486-8	803.90	972.50	57.50	.00	.00	.00	.0	20.00 57.50
28487-1	803.90	967.50	57.50	.00	.00	.00	5.0	20.00 57.50
28487-2	803.90	972.50	57.50	.00	.00	.00	4.0	20.00 57.50
28487-3	803.90	972.50	57.50	.00	.00	.00	5.0	20.00 57.50
28487-4	803.50	972.50	57.50	.00	.00	.00	8.0	20.00 57.50
28487-5	803.50	972.50	57.50	.00	.00	.00	8.0	20.00 57.50
28487-6	803.50	972.50	57.50	.00	.00	.00	20.0	20.00 57.50
28487-7	803.90	972.50	57.50	.00	.00	.00	20.0	20.00 57.50
28487-8	-27.00	961.20	-142.50	.00	.00	.00	.0	20.00 57.50
28488-1	-27.00	961.20	-142.50	.00	.00	.00	.0	20.00 57.50
28488-2	-102.00	-5.00	560.00	.33	93.75	.00	.0	20.00 57.50
28488-3	-102.00	42.50	560.00	.33	62.50	.00	.0	20.00 57.50
28488-4	-102.00	52.50	560.00	.00	.00	.00	.0	20.00 57.50

-BETA-
OPEN-Z-
OPEN

(Y)

(Z)

(AA)

(BB)

(CC)

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----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE (PRS)		----- OP EXP -----							TEMP	
OPEN	CLOSE	EXPOSURE TIME		-G#										OP	CL
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
259: 0: 7:11:859			28488-5	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	7:55:109	0:43:250													OK
259: 0: 8: 2:859			28488-6	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	8: 3:609	0: 0:750													OK
259: 0: 8: 3:700			28488-7	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	8: 3:800	0: 0:100													OK
259: 0: 9: 9:237			28488-8	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	9:48:568	0:39:331													OK
259: 0:10:35:566			28489-1	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	10:36:316	0: 0:750													OK
259: 0:11: 5: 63			28489-2	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	13:44:555	2:39:492													OK
259: 0:13:57: 54			28489-3	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	16:36:548	2:39:494													OK
259: 0:17: 8:464			28489-4	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	22: 7:609	4:59:145													OK
259: 0:22:26:859			28489-5	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	25: 6:609	2:39:750													OK
259: 0:26: 1:609			28489-6	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	36: 0:491	9:58:882													OK
259: 0:36:14:655			28489-7	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	41:14:476	4:59:821													OK
259:11:24:32:408			28489-8	S		MAN	X	X	5	MA	6	X	H1	OK	
	29:51:658	5:19:250													OK
259:11:33: 8:408			28490-1	S		MAN	X	X	5	MA	6	X	H1	OK	
	38:27:408	5:19: 0													OK
259:14:22:32:908			28490-2	S		MAN	X	X	5	G5	6	X	H1	OK	
	25:12: 91	2:39:183													OK
259:14:37: 0:658			28490-3	S		MAN	X	X	5	MA	6	X	H1	OK	
	39:40:158	2:39:500													OK
259:21:45:34:908			28490-4	S	LMB PT	MAN	X	X	5		6	X	H1	OK	
	46:14:158	0:39:250													OK
259:21:46:19:658			28490-5	L	LMB PT	MAN	X	X	5		6	X	H1	OK	
	46:19:908	0: 0:250													OK
259:21:48:26:908			28490-6	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	49: 8:158	0:39:250													OK
259:21:49:16: 0			28490-7	L	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	49:16: 0	0: 0: 0													OK
259:21:50: 9:658			28490-8	S	LMB PT	MAN	X	X	5	G3	6	X	H1	OK	
	52:49:158	2:39:500													OK

5-22-75 AT 2 HOURS 55 MINS 48 SECS

FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	-----	---- MAX PT EXC ---- (ARCMINS) (ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.					
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY									
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)		
28488-5	613.00	968.80	57.50				-4.0		20.00	57.50	-2295.90	2069.20	427.40	223.10	1795
28488-6	613.00	968.80	57.50	.00	.00	.00	-4.0	.00	20.00	57.50	-2295.90	2219.10	426.70	143.60	1795
28488-7	613.00	968.80	57.50	.00	.00	.00	-4.0	.00	20.00	57.50	-2295.90	2219.10	426.70	143.60	1795
28488-8	613.00	968.80	57.50	.00	.00	.00	.0	.00	20.00	57.50	-2295.90	2361.80	426.20	56.50	1795
28489-1	613.00	968.80	57.50	.00	.00	.00	.0	.00	20.00	57.50	-2295.90	2496.20	425.80	-35.70	1795
28489-2	613.00	968.80	57.50	.00	.00	.00	4.0	.00	20.00	57.50	-2295.90	2620.80	425.60	-129.70	1795
28489-3	614.00	968.80	57.50	.00	.00	.00	4.0	.00	20.00	57.50	-2295.80	2835.10	425.30	-310.00	1795
28489-4	614.00	968.80	57.50	.00	.00	.00	6.0	.00	20.00	57.50	-2295.80	3080.20	426.00	-543.20	1795
28489-5	614.00	968.80	57.50	.00	.00	.00	8.0	.00	20.00	57.50	-2296.10	2963.00	428.00	-422.80	1795
28489-6	615.00	968.80	57.50	.00	.00	.00	20.0	.00	20.00	57.50	-2296.70	2569.00	429.70	-81.70	1795
28489-7	615.00	968.80	57.50	.00	.00	.00	20.0	.00	20.00	57.50	-2299.30	1003.50	431.70	416.80	1795
28489-8	-1054.00	-6.30	-832.50	.00	.00	.00	.0	.00	20.00	57.50	-2388.30	1763.70	431.20	349.30	1802
28490-1	-1054.00	163.70	-396.20	.00	62.50	.00	.0	.00	20.00	57.50	-2390.90	231.50	431.50	146.00	1802
28490-2	-7110.00	-56.30	-324.00	.00	92.50	.00	.0	.00	20.00	57.50	-2400.00	670.00	428.80	340.90	1804
28490-3	360.00	-824.00	132.00	.00	.00	.00	.0	.00	20.00	57.50	-2400.00	670.00	431.40	340.90	1804
28490-4	-7493.00	-931.20	57.50	.00	.00	.00	-4.0	.00	20.00	57.50	-2471.60	871.20	433.90	396.00	1808
28490-5	-7493.00	-931.20	57.50	.00	.00	.00	-4.0	.00	20.00	57.50	-2471.70	997.40	432.60	416.70	1808
28490-6	-7492.00	-935.00	57.50	.00	.00	.00	.0	.00	20.00	57.50	-2471.90	1354.30	430.30	425.80	1808
28490-7	-7492.00	-935.00	57.50	.00	.00	.00	4.0	.00	20.00	57.50	-2472.00	1597.40	428.40	388.80	1808
28490-8	-7492.00	-935.00	57.50	.00	.00	.00	4.0	.00	20.00	57.50	-2472.00	1597.40	428.40	388.80	1808

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FRAME	----- EPC POINT -----	----- MAX PT EXC -----	LIMB OFF	--NRL BIAS--	ANGLE	ALTITUDE	Z(H)	ORBIT
COUNT (ARCMINS)	(ARCSEC)	(ARCMINS)	(ARCSEC)	(ARCSEC)	(ARCMINS)	(KM)	(KM)	NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)
28491-1	-7492.00	-935.00	57.50				3.0	
				.00	.00	.00	-1.00	20.00 57.50
28491-2	-7491.00	-935.00	57.50				8.0	
				.00	.00	.00	1.00	20.00 57.50
28491-3	-7490.00	-935.00	57.50				8.0	
				.00	.00	.00	1.00	20.00 57.50
28491-4	-7490.00	-935.00	57.50				20.0	
				.00	.00	.00	1.00	20.00 57.50
28491-5	-7489.00	-935.00	57.50				20.0	
				.00	.00	.00		20.00 57.50
28491-6	697.10	-728.70	70.00				.0	
				.00	.00	.00	.00	20.00 57.50
28491-7	-2.30	17.50	1043.70				.0	
				.00	.00	.00	.00	20.00 57.50
28491-8	-1.30	15.00	1043.70				.0	
				.00	.00	.00	.00	20.00 57.50
28492-1	-2.00	20.00	1043.70				.0	
				.00	.00	.00	.00	20.00 57.50
28492-2	-1.00	20.00	1047.50				.0	
				.00	.00	.00	.00	20.00 57.50
28492-3	-1742.00	-938.70	58.70				4.0	
				.00	.00	.00	.00	20.00 57.50
28492-4	.00	20.00	557.50				.0	
				.00	.00	.00	.00	20.00 57.50
28492-5	.00	20.00	557.50				.0	
				.00	.00	.00	.00	20.00 57.50
28492-6	-803.20	168.70	46.20				.0	
				.00	.00	.00	.00	20.00 57.50
28492-7	-802.90	168.70	46.20				.0	
				.00	.00	.00	.00	20.00 57.50
28492-8	-802.90	168.70	46.20				.0	
				.00	.00	.00	.00	20.00 57.50
28493-1	-803.20	168.70	46.20				.0	
				.00	.00	.00	.00	20.00 57.50
28493-2	-802.50	168.70	46.20				.0	
				.00	.00	.00	.00	20.00 57.50
28493-3	-802.90	168.70	46.20				.0	
				.00	.00	.00	.00	20.00 57.50
28493-4	-454.00	3.80	1051.20				.0	
				.00	.00	.00	.00	20.00 57.50

----- SHUTTER -----			FRAME COUNT	-WVL-	STATE MODE		----- OP EXP -----							TEMP			
			EXPOSURE TIME	-G#												OP	CL
OPEN	CLOSE																
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)		
261:14:30:29:490			28493-5	S	BORE	MAN	X	X	5	GS	6	X	H1	OK			
	31: 8:458	0:38:968													OK		
261:14:37:35:466			28493-6	S	BORE	MAN	X	X	5	HL	6	X	H1	OK			
	40:14:459	2:38:993													OK		
261:14:40:24:708			28493-7	S	BORE	MAN	X	X	5	HL	6	X	H1	OK			
	41: 4:457	0:39:749													OK		
261:14:44:29:458			28493-8	S	BORE	MAN	X	X	5	MA	6	X	H1	OK			
	47: 8:458	2:39: 0													OK		
261:14:50:57:208			28494-1	S	BORE	MAN	X	X	5	GS	6	X	H1	OK			
	53:36:458	2:39:250													OK		
261:22:35:43:671			28494-2	S		MAN	X	X	5	G3	6	X	H1	OK			
	38:23:246	2:39:575													OK		
262: 7:42: 7:758			28494-3	S		MAN	X	X	5	G3	6	X	H1	OK			
	44:47:258	2:39:500													OK		
262: 7:51:29:258			28494-4	S		MAN	X	X	5	G3	6	X	H1	OK			
	54: 8:140	2:38:882													OK		
262: 9:22:34:758			28494-5	S		MAN	X	X	5	G3	6	X	H1	OK			
	25:14:758	2:40: 0													OK		
262: 9:25:23: 8			28494-6	S		MAN	X	X	5	G3	6	X	H1	OK			
	26: 3: 8	0:40: 0													OK		
262: 9:30: 1:258			28494-7	S		MAN	X	X	5	MA	6	X	H1	OK			
	32:40:522	2:39:264													OK		
262: 9:32:43:687			28494-8	S		MAN	X	X	5	MA	6	X	H1	OK			
	33:23:520	0:39:833													OK		
262:10:19: 9:258			28495-1	S		MAN	X	X	5	GS	6	X	H1	OK			
	21:48:508	2:39:250													OK		
262:10:22:22:508			28495-2	S		MAN	X	X	5	GS	6	X	H1	OK			
	23: 2:508	0:40: 0													OK		
262:10:27:42:258			28495-3	S		MAN	X	X	5	G3	6	X	H1	OK			
	28:21:508	0:39:250													OK		
262:10:28:33:258			28495-4	S		MAN	X	X	5	G3	6	X	H1	OK			
	31:12:352	2:39: 94													OK		
262:10:38:30:166			28495-5	S		MAN	X	X	5	G3	6	X	H1	OK			
	39: 9:326	0:39:160													OK		
262:10:39:29:325			28495-6	S		MAN	X	X	5	G3	6	X	H1	OK			
	42: 8:508	2:39:183													OK		
262:10:47: 2:258			28495-7	S		MAN	X	X	5	G3	6	X	H1	OK			
	47:41:508	0:39:250													OK		
262:10:47:54:508			28495-8	S		MAN	X	X	5	G3	6	X	H1	OK			
	50:34:508	2:40: 0													OK		

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FRAME COUNT	----- EPC POINT ----- (ARCMINS) (ARCSEC)	---- MAX PT EXC ---- (ARCHINS) (ARCSEC)		LIMB OFF		--NRL BIAS-- (ARCSEC)		ANGLE (ARCMINS)		ALTITUDE Z (M) (KM) (KM)		ORBIT NO.
	GAMRR	GANX	GANY	GAMRR	GANX	GANY			-BETA- OPEN	-Z- OPEN		
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)		(Y)	(Z)	(AA) (BB) (CC)
28493-5	-454.00	3.80	1051.20				.0		20.00 57.50	-2739.50	2635.90	428.90 -134.80 1833
28493-6	-454.00	3.80	1051.20	.00	.00	.00	.0	.00	20.00 57.50	-2740.40	2161.50	430.50 181.60 1833
28493-7	-454.00	3.80	1051.20	.00	.00	.00	.0	.00	20.00 57.50	-2741.10	1804.50	430.60 335.50 1833
28493-8	191.00	-536.20	196.20	.00	.00	.00	.0	.00	20.00 57.50	-2742.10	1244.00	430.50 430.40 1833
28494-1	191.00	441.20	176.20	.00	.00	.00	.0	.00	20.00 57.50	-2743.60	144.60	430.90 94.60 1833
28494-2	-5401.90	253.70	-150.70	.00	.00	.00	.0	.00	20.00 57.50	-2784.30	403.60	430.50 235.20 1838
28494-3	155.00	-886.20	27.50	.00	.00	.00	.0	.00	20.00 57.50	-2825.80	2198.60	430.20 161.10 1843
28494-4	155.00	296.20	315.00	.00	.00	.00	.0	.00	20.00 57.50	-2827.80	1069.10	430.10 422.80 1843
28494-5	292.30	476.20	-73.70	.00	.00	.00	.0	.00	20.00 57.50	-2834.10	1393.40	430.10 422.20 1844
28494-6	292.70	476.20	-73.70	.00	.00	.00	.0	.00	20.00 57.50	-2834.80	959.70	430.10 409.30 1844
28494-7	292.70	476.20	.00	.00	.00	.00	.0	.00	20.00 57.50	-2835.70	189.20	431.00 121.50 1844
28494-8	293.00	476.20	.00	.00	.00	.00	.0	.00	20.00 57.50	-2835.90	-240.40	432.60 416.00 1844
28495-1	262.00	477.50	-77.50	.00	.00	.00	.0	.00	20.00 57.50	-2839.30	163.90	433.20 106.70 1845
28495-2	262.00	477.50	-77.50	.00	.00	.00	.0	.00	20.00 57.50	-2839.50	631.20	430.10 327.60 1845
28495-3	262.00	471.20	-77.50	.00	.00	.00	.0	.00	20.00 57.50	-2839.40	1371.00	426.90 420.70 1845
28495-4	262.00	471.20	-77.50	.00	.00	.00	.0	.00	20.00 57.50	-2839.30	1508.50	426.70 403.30 1845
28495-5	263.00	483.70	-77.50	.00	.00	.00	.0	.00	20.00 57.50	-2838.50	2479.40	427.90 -19.80 1845
28495-6	263.00	483.70	-77.50	.00	.00	.00	.0	.00	20.00 57.50	-2838.50	2517.20	428.20 -46.20 1845
28495-7	264.00	495.00	-77.50	.00	.00	.00	.0	.00	20.00 57.50	-2839.00	2319.90	430.10 90.00 1845
28495-8	264.00	495.00	-77.50	.00	.00	.00	.0	.00	20.00 57.50	-2839.00	2319.90	430.10 90.00 1845
				.00	.00	.00		.00	20.00 57.50			

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FRAME COUNT	----- EPC POINT ----- (ARCMINS)	(ARCSEC)	----- MAX PT EXC ----- (ARCMINS)	(ARCSEC)	LIMB OFF	--NRL BIAS-- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.					
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN					
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA)	(BB)	(CC)		
28496-1	264.00	322.50	325.00				.0		20.00	57.50	-2842.50	-183.10	432.20	422.50	1845
28496-2	-736.90	173.70	-181.20	.00	.00	.00	.0	.00	20.00	57.50	-2864.00	2074.60	427.00	219.80	1848
28496-3	-736.90	173.70	-181.20	.00	.00	.00	.0	.00	20.00	57.50	-2863.90	2170.80	427.20	171.00	1848
28496-4	-736.90	173.70	-181.20	.00	.00	.00	.0	.00	20.00	57.50	-2863.90	2170.80	427.20	171.00	1848
28496-5	-736.90	173.70	-181.20	.00	.00	.00	.0	.00	20.00	57.50	-2863.90	2170.80	427.20	171.00	1848
28496-6	-736.90	173.70	-181.20	.00	.00	.00	.0	.00	20.00	57.50	-2863.90	2170.80	427.20	171.00	1848
28496-7	-736.90	173.70	-181.20	.00	.00	.00	.0	.00	20.00	57.50	-2863.80	2257.20	427.40	122.90	1848
28496-8	-736.90	173.70	-181.20	.00	.00	.00	.0	.00	20.00	57.50	-2863.80	2257.20	427.40	122.90	1848
28497-1	-736.90	173.70	-181.20	.00	.00	.00	.0	.00	20.00	57.50	-2863.70	2397.30	428.00	36.50	1848
28497-2	-736.90	173.70	-181.20	.00	.00	.00	.0	.00	20.00	57.50	-2863.60	2488.30	428.60	-24.80	1848
28497-3	-736.60	110.00	-191.20	.00	.00	.00	.0	.00	20.00	57.50	-2864.80	1932.30	430.10	288.00	1849
28497-4	-736.60	110.00	-191.20	.00	.00	.00	.0	.00	20.00	57.50	-2865.40	1567.70	429.90	396.70	1849
28497-5	-736.60	93.80	-291.20	.00	.00	.00	.0	.00	20.00	57.50	-2866.30	1010.20	429.80	416.10	1849
28497-6	-736.60	93.80	-291.20	.00	.00	.00	.0	.00	20.00	57.50	-2866.90	559.50	430.10	301.60	1849
28497-7	-736.60	233.70	-291.20	.00	.00	.00	.0	.00	20.00	57.50	-2867.20	250.80	430.70	156.80	1849
28497-8	-736.30	233.70	-291.20	.00	.00	.00	.0	.00	20.00	57.50	-2867.60	-298.70	432.70	407.70	1849
28498-1	-4.00	-13.70	561.20	.00	.00	.00	.0	.00	20.00	57.50	-2870.40	1437.40	427.00	413.90	1849
28498-2	-4.00	40.00	561.20	.00	60.00	.00	.0	.00	20.00	57.50	-2870.20	1819.60	426.70	324.80	1849
28498-3	-4.00	-10.00	561.20	.00	50.00	.00	.0	.00	20.00	57.50	-2870.20	1819.60	426.70	324.80	1849
28498-4	-4.00	390.00	315.00	.00	30.00	.00	.0	.00	20.00	57.50	-2869.60	2374.90	427.90	51.10	1849
				.00	.00	.00		.00	20.00	57.50					

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INSTRUMENT OPERATION

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SD828-EDB
INSTRUMENT OPERATION 5-22-75 AT 2 HOURS 55 MINS 48 SECS
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FRAME COUNT	----- EPC (ARCMINS)	POINT (ARCSEC)	----- (ARCMINS)	MAX PT EXC (ARCSEC)	----- (ARCMINS)	LIMB OFF (X)	---NRL BIAS--- (ARCSEC)	ANGLE (ARCMINS)	ALTITUDE (KM)	Z(M) (KM)	ORBIT NO.
	GAMRR	GAMX	GAMY	GAMRR	GAMX	GAMY	GXB1	GYB1	-BETA- OPEN	-Z- OPEN	
(D)	(Q)	(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)	(AA) (BB) (CC)
28498-5	-3.60	642.50	171.20	.00	.00	.00	.0	.00	20.00 57.50	-2870.10	2246.80 430.20 133.70 1850
28498-6	-6516.90	75.00	1047.50	.00	.00	.00	.0	.00	20.00 57.50	-2872.60	752.90 429.90 364.90 1850
28498-7	534.90	-970.00	56.30	.00	.00	.00	.0	.00	20.00 57.50	-2881.90	1903.30 430.10 299.30 1851
28498-8	-26.70	-925.00	77.50	.00	.00	.00	.0	.00	20.00 57.50	-2919.20	2113.50 427.50 201.50 1859
28499-1	-849.00	25.00	1062.50	.00	.00	.00	.0	.00	20.00 57.50	-2926.40	2455.60 429.40 -.40 1861
28499-2	-848.70	25.00	1062.50	.00	.00	.00	.0	.00	20.00 57.50	-2926.80	2300.90 430.00 101.30 1861
28499-3	-848.70	25.00	1062.50	.00	.00	.00	.0	.00	20.00 57.50	-2926.90	2231.80 430.00 142.00 1861
28499-4	733.00	-931.20	41.20	.00	.00	.00	-4.0	.00	20.00 57.50	-2931.30	1311.10 427.10 424.90 1861
28499-5	733.00	-931.20	41.20	.00	.00	.00	-1.0	.00	20.00 57.50	-2931.20	1444.20 427.00 413.10 1861
28499-6	733.00	-931.20	41.20	.00	.00	.00	.0	.00	20.00 57.50	-2931.10	1572.50 427.00 392.10 1861
28499-7	733.00	-931.20	41.20	.00	.00	.00	.0	.00	20.00 57.50	-2930.80	1811.80 427.20 328.10 1861
28499-8	734.00	-931.20	41.20	.00	.00	.00	4.0	.00	20.00 57.50	-2930.10	2385.10 428.90 46.20 1862
28500-1	734.00	-931.20	41.20	.00	.00	.00	4.0	.00	20.00 57.50	-2930.10	2458.60 429.60 -2.10 1862
				.00	.00	.00	.00	.00	20.00 57.50		