

GALILEO ORBIT ACTIVITY PLAN (OAP)  
04/18/1990 08:36

ACTIVITY ID: E1HUCROSS-01  
START TIME: 90-313/01:00:00

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Activity ID: ORBIT E1 TARGET H OAPEL UCROSS MULTI - SEQ NO 01  
Title UVS/EUV CROSS CALIBRATION  
Requestor JAJELLO  
Working Group MWG Bottom Label CROSSCAL Plot Key UVS1

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UTC TIMING BLOCK

(YY-DDD/HH:MM:SS)

Start Time 90-313/01:00:00  
End Time 90-313/16:59:00  
Duration 000/15:59:00

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AACS/DMS/DOWNLINK

Instruments Used: DDS N EPD N HIC N MAG N NIMS N PLS N  
PPR N PWS N RS N SSI N UVS Y EUV Y  
Scan Platform Reserved Y Earth Referenced N  
Spin Status (All/Dual) A Coop Imaging Required N DMS Activity NONE  
Data Format/RT Downlink 7.68

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OBSERVATION OBJECTIVE

UVS/EUV CROSS CALIBRATION AS IN EV4 AT 90 DEGRRES CONE AND 135 DEGREES  
CLOCK IN ALL SPIN MODE.

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DESIGN DETAIL

CDS Byte Count Estimate 0

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GO TO 90 DEGREES CONE AND 135 DEGREES CLOCK IS REQUIRED POSITION  
ACCOMPLISHED AS PART OF UANTIA-01.

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CHANGE CONTROL

Version 1 Page 01 of 01  
Submission date 04/13/1990 Change Date / /  
Figure attached (Y/N) N Changed by

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GALILEO ORBIT ACTIVITY PLAN (OAP)  
04/18/1990 08:36

ACTIVITY ID: E1HUCROSS-02  
START TIME: 90-314/01:00:00

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Activity ID:	ORBIT E1	TARGET H	OAPEL	UCROSS	MULTI	-	SEQ NO	02
Title	UVS/EUV CROSS CALIBRATION							
Requestor	JAJELLO							
Working Group	MWG	Bottom Label	CROSSCAL	Plot Key	UVS1			

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UTC TIMING BLOCK  
(YY-DDD/HH:MM:SS)

Start Time	90-314/01:00:00
End Time	90-316/17:14:00
Duration	002/16:14:00

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AACS/DMS/DOWNLINK

Instruments Used:	DDS	N	EPD	N	HIC	N	MAG	N	NIMS	N	PLS	N
	PPR	N	PWS	N	RS	N	SSI	N	UVS	Y	EUV	Y
Scan Platform Reserved	Y Earth Referenced N											
Spin Status (All/Dual)	A Coop Imaging Required N DMS Activity NONE											
Data Format/RT Downlink	7.68											

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OBSERVATION OBJECTIVE

UVS STUDY OF OH(3050A) DISTRIBUTION IN THE INNER SOLAR SYSTEM FROM COMETOIDS.

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DESIGN DETAIL

CDS Byte Count Estimate 54

UVS F-CHANNEL STUDY OF OH(3050A) AT 120 DEGREE ANGLE. UVS F-CHANNEL AND SCAN PLATFORM CONE ANGLE SET UP AS PART OF UANTIA-02.

TIME	PA	DESCRIPTION
316/17:00:00	CMDRS	CRUISE MODE
316/17:02:00	PCREST	START A/S TO D/S XSITION

BYTES: PCREST=40  
CMDRS=14

TOTAL= 54 BYTES

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CHANGE CONTROL

Version	3	Page	01 of 01
Submission date	04/13/1990	Change Date	04/18/1990
Figure attached (Y/N)	N	Changed by	JAJELLO

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GALILEO ORBIT ACTIVITY PLAN (OAP)  
07/17/1990 17:48

ACTIVITY ID: E1HUGEOTL-01  
START TIME: 90-342/12:19:34

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Activity ID:	ORBIT E1	TARGET H	CAPEL	UGEOTL	MULTI	-	SEQ NO	01
Title	UVS GEOTAIL #1							
Requestor	JAJELLO							
Working Group	MWG	Bottom Label	SKY	Plot Key	UVS1			

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EPOCH TIMING BLOCK

(EPO+DDD/HH:MM:SS)

Start Time EEE-000/08:15:00  
End Time EEE-000/07:30:01  
Duration 000/00:44:59

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AACS/DMS/DOWNLINK

Instruments Used: DDS N EPD N HIC N MAG N NIMS N PLS N  
PPR N PWS N RS N SSI N UVS Y EUV N  
Scan Platform Reserved Y Earth Referenced N  
Spin Status (All/Dual) D Coop Imaging Required N DMS Activity NONE  
Data Format/RT Downlink 28.8

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OBSERVATION OBJECTIVE

THE OBJECTIVE OF THE GEOTAIL OBSERVATION IS TO STUDY THE DISTRIBUTION OF FAST HYDROGEN ATOMS CREATED BY CHARGE EXCHANGE OF H ATOMS WITH FAST PROTONS AND EXOSPHERIC H UNDERGOING SOLAR LYMAN ALPHA RADIATION PRESSURE. THE HIGH RESOLUTION MAP OF THE HIGH ALTITUDE GEOCORONAL EXTENSION IN THE ANTISUNWARD DIRECTION IS MADE BY UVS. THE UVS MEASUREMENTS AT ~30 TIMES THE SENSITIVITY OF EUV WILL BE CROSS CALIBRATED WITH SIMULTANEOUS MEASUREMENTS WITH EUV. THIS GEOTAIL OBSERVATION IS AT 90 DEGREES CONE. SLOW SLEW FROM +44 DEG ABOVE TO -44 DEG BELOW THE ECLIPTIC PLANE AT A SLEW RATE OF ABOUT 2 DEG/MINUTE (581 MICRORADIANS/SECOND). THE SECOND OBSERVATION IS PERFORMED BY A SLOW SLEW ABOUT ANTISUNWARD DIRECTION (180 DEG OR AS CLOSE AS ALLOWED TO 180 DEGREES CONE). SCAN FROM NORTH TO SOUTH OR EAST TO WEST OF ECLIPTIC PLANE ABOUT +/- 10 DEG FROM ANTI SUN DIRECTION. THE FIRST OBSERVATION REQUIRES NEGOTIATION WITH PWS ON MOTION OF GRATING. THE CURRENT PLAN IS TO TIME SHARE IN A PICKET FENCE ARRANGEMENT WITH PWS THE USE OF THE GRATING. THE GRATING WILL BE STEPPED IN A 16 STEP MINI SCAN FOR 2-RIMS AND IN A 1-STEP FOR 2 RIMS ETC. THIS ARRANGEMENT ALLOWS FOR 1 CMDRS WITH ABOUT 16 UVS COMMANDS ( 8 PAIRS WITH A MAX OF 18 COMMANDS). THE LAST PAIR IS USED FOR UVS 16-STEP TO COMPLETE OBSERVATION AND SHIFT TO CRUISE MODE AT END. THE WORDS FOR THE MEASUREMENT ARE TO COME FROM PWS.

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DESIGN DETAIL

CDS Byte Count Estimate

112

*no 1-step page*

Time (RIM)	PA	Comment
4	TARGET 36	Set up SLEW
4	CSMOS 24	Slow slew STRIP (88 DEG)

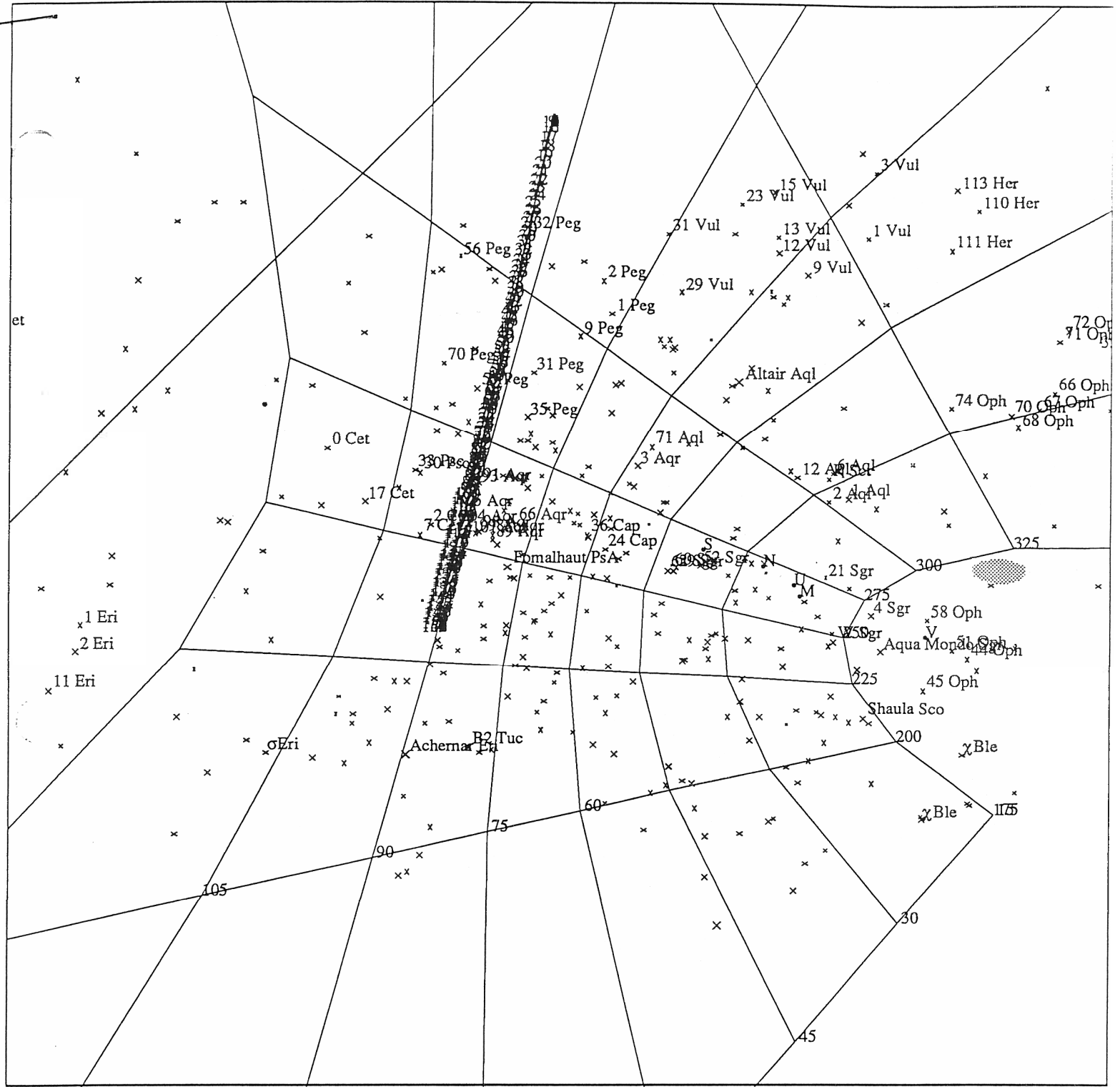
44                                    END SLOW SLEW  
3                                    CMDRS 15 X 18                    SET UP  
4                                    CMDRS            L alpha miniscan-16 STEP  
6,8,10,12..... 32,34 8 PAIRS END 1-STEP AT RIM 34 CW -1 STEP,16STEP  
                                      ,1STEP ETC  
36                                    16-STEP TILL END  
44                                    CMDRS            L alpha MINI SCAN or cruise position OR G-G SCAN

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CHANGE CONTROL

Version	6	Page	of 06
Submission date	03/06/1990	Change Date	17/1990
Figure attached (Y/N)	Y	Changed by	ELLO

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POINTER C3.1 paddy: 9/25/1990 14:15:53  
 P8.E1HUGEOTL\_01  
 ISDF:isdf-ve11-pa1  
 CENTRAL BODY:EARTH  
 J:m.e1hugeotl01  
 EPHE:/gpnr/eph/EARTH-070590.t  
 PERIAPSIS:90-342/20:35:31.21  
 THDR:EEE 90-342/20:34:11.000 -CDS 485:52:0  
 ACTIVITY:E1HUGEOTL\_01

FIGURE 1

GALILEO ORBIT ACTIVITY PLAN (OAP)  
07/17/1990 13:01

ACTIVITY ID: E1WELMDFT-01  
START TIME: 90-342/18:35:34

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Activity ID: ORBIT E1 TARGET W OAPEL ELMDFT MULTI - SEQ NO 01  
Title EUV DAY/NIGHT EARTH LIMB DRIFT  
Requestor BWAGGONER  
Working Group AWG Bottom Label Plot Key EUVHIC

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EPOCH TIMING BLOCK

(EPO+DDD/HH:MM:SS)

Start Time EEE-000/01:59:00  
End Time EEE+000/01:29:59  
Duration 000/03:92:59

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AACS/DMS/DOWNLINK

Instruments Used: DDS N EPD N HIC N MAG N NIMS N PLS N  
PPR N PWS N RS N SSI N UVS N EUV Y  
Scan Platform Reserved N Earth Referenced N  
Spin Status (All/Dual) D Coop Imaging Required N DMS Activity RECORD  
Data Format/RT Downlink 28.8

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OBSERVATION OBJECTIVE

*Clock Angle: 1  
# Sectors 125  
Scans per 27*

This measurement will search for emissions of H, He, and O+ in the 500 to 1250 region of the spectrum starting in the exosphere on the nightside and ending in the exosphere on the dayside. The largest angular size of the Earth will be around 120 degrees. At some point prior to the limb crossing the FPN will be changed to prevent saturation of the data rate in Lyman-Alpha signal. At 1 hr 30 minute after closest approach an EUVOFF will be issued.

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DESIGN DETAIL

CDS Byte Count Estimate

67

The EUV will be configured in encounter mode to sample the full spectral range LESS LYMAN-ALPHA 7 CENTER CHANNELS in a swath of approximately 240 degrees. The actual command parameters have yet to be determined.

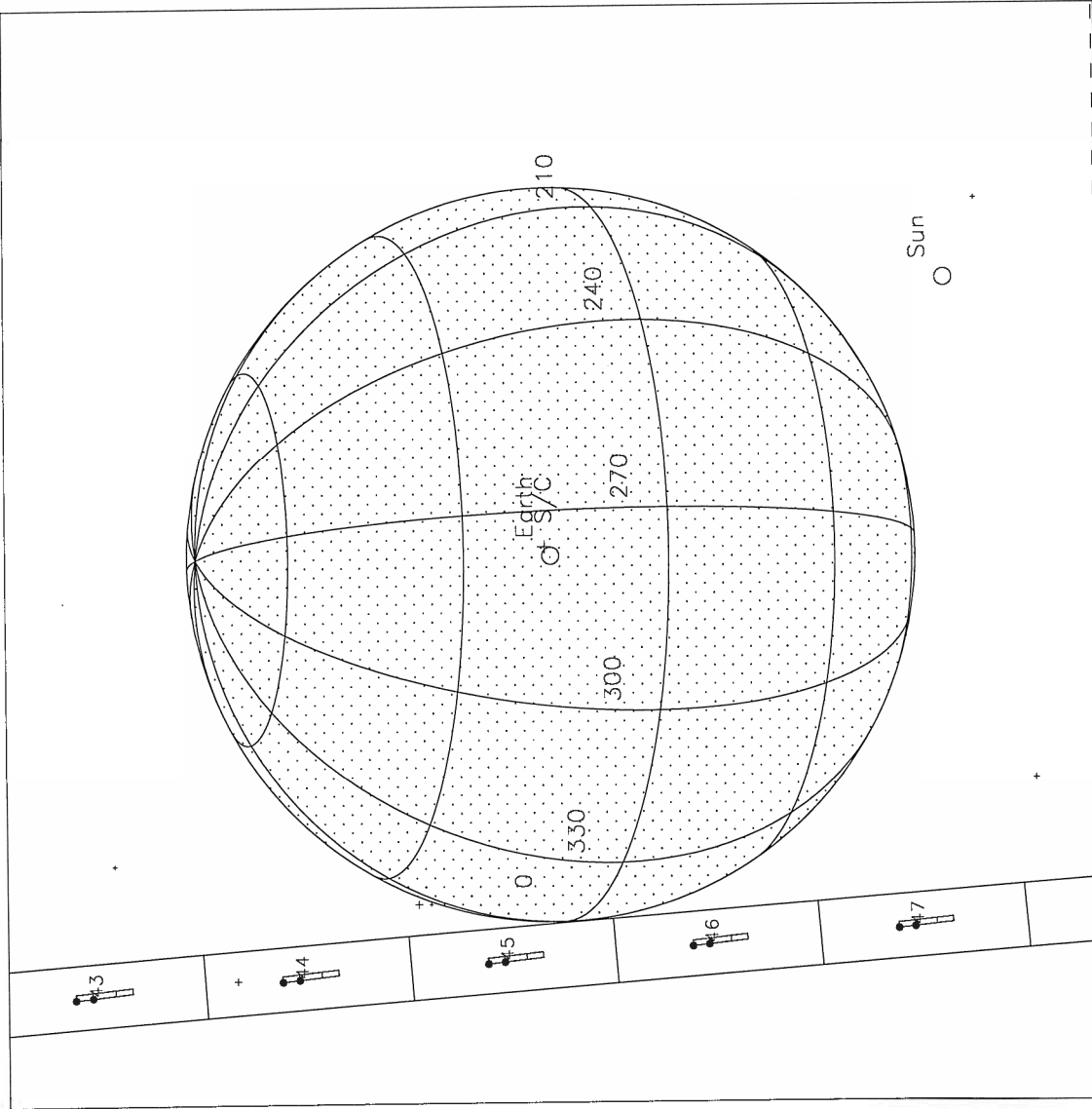
time	PA	comment
--1h	UTILITY 0	SET UP FOR fpn
RIM		
0	24 DML	11 BYTES FPN
2	EUVcmd	CONFIGURE EUV IN CRUISE MODE

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CHANGE CONTROL

Version	3	Page	01 of 11
Submission date	03/14/1990	Change Date	07/17/1990
Figure attached (Y/N)	Y	Changed by	JAJELLO

Tue Jul 3 15:56:21 2012



Start UTC\_TIME : 199008342 // 18:35:34.000

No End Time :

Start SCLK : 1/00610097:62:9:0

Target Body : EARTH

Target Ra/Dec : 258.71 / -17.29 Deg

S/C to Body Center : 72473.99 Km ( 11.362872 Re )

Z-axis Pointing ( Ra / Dec ) : 175.28 / 2.58 Deg