

| | | | | | | | |
|---|---------------------------|-------------------|-----------------|---------------------------------------|--------------|--------------|---------|
| Activity ID | Orbit GA | Target H | Inst U | OAPEL | STRCAL | SeqNo 01 | Multi - |
| Title | UVS/NIMS STAR CALIBRATION | | | | | | |
| Requestor | S.EDBERG | | | Team | UVS | | |
| Bottom Label | | | | Plot Key | UVS | | |
| Time System | CDS | | | Encounter Load ID | EE3 | | |
| Start | GCA-CDS | 00001050:00:0 | 91-302/04:57:22 | GCA-000/17:41:40 | | | |
| End | GCA-CDS | 00001038:11:0 | 91-302/05:09:23 | GCA-000/17:29:39 | | | |
| Duration | | 00000011:80:0 | 000/00:12:01 | 000/00:12:01 | | | |
| DMS Activity | RECORD | Minimum Data Rate | 28.8 | Data Format | MPW | | |
| S/P Reserved | Y | Earth Reference | N | Spin Status | D | Coop Imaging | N |
| Instruments Used: | DDS N | EPD N | EUV N | HIC N | MAG N | NIMS Y | |
| | PLS N | PPR Y | PWS N | RS N | SSI N | UVS Y | |
| Observation Objective | | | | | | | |
| This observation will be a star calibration to be used in the analysis of the Gaspra data. | | | | | | | |
| Design Detail | | | | | | | |
| CDS COST | 317 | | | Observation to be designed in POINTER | Y | | |
| <p>This observation will be a star calibration of the star SPICA. It will consist of several swaths across the star. The first swath will be done at 28.8 for a duration of 2 minutes (MPW 0.016 tracks). The next couple of swaths will last 6 minutes at 7.68 (LRS 0.012 tracks) and will mosaic the star to insure that the PPR field of view catches the star even with the scan platform pointing uncertainty. Both of these will have a scan platform rate of .04 mrad/s.</p> | | | | | | | |
| TARGET | (26+10)*2 | = | 72 | | | | |
| CSMOS | 14+13+10 | = | 37 | | | | |
| CMDRS | (14*3)+11*2+14*2+10 | = | 102 | | | | |
| SCIREC | 8+10 | = | 18 | | | | |
| SCITLM | 2*(15+10) | = | 50 | | | | |
| SAFE scan platform | | = | 38 | | | | |
| TOTAL | | = | 317 | | | | |
| Version | 4 | | | Change Date | 06/11/91 | | |
| Submission Date | 05/21/91 | | | Changed By | V. HENDERSON | | |

Apr 24, 2013 - K. Simmons

Note that times given may not have been true execution times, so use the command logs to verify.

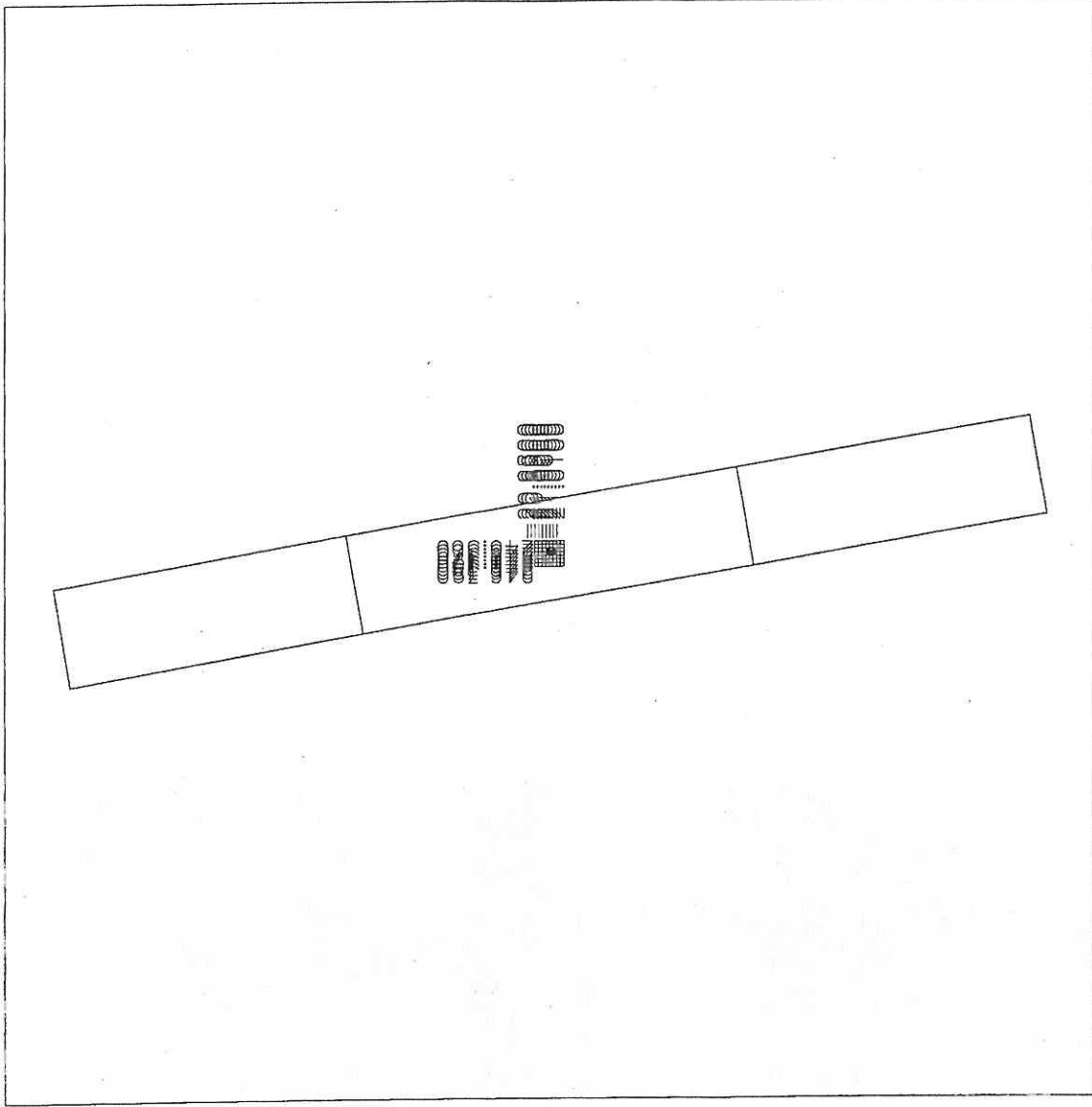
Graphics are also estimated times but generally ^{show} the body and FOV correctly.

GALILEO ACTIVITY PLAN FORM - GASPRA
 06/11/91 21:17:23 Gaspra Mtg

ACTIVITY ID: GAPUOUTGAS02¹
 START TIME: GCA-CDS 00000179:00:0

| | | | | | | | | |
|---|------------------------------------|-------------------|---------------------------------------|------------------|--------------|--------------|---------|---|
| Activity ID | Orbit GA | Target P | Inst U | OAPL | OUTGAS | SeqNo 02 | Multi - | |
| Title | NARROW FIELD SYSTEM SCAN OF GASPRA | | | | | | | |
| Requestor | S. EDBERG | | | Team | UVS | | | |
| Bottom Label | | | | Plot Key | UVS | | | |
| Time System | CDS | | Encounter Load ID | EE3 | | | | |
| Start | GCA-CDS | 00000179:00:0 | 91-302/19:38:03 | GCA-000/03:00:59 | | | | |
| End | GCA-CDS | 00000167:00:0 | 91-302/19:50:11 | GCA-000/02:48:51 | | | | |
| Duration | | 00000012:00:0 | 000/00:12:08 | 000/00:12:08 | | | | |
| DMS Activity | RECORD | Minimum Data Rate | 7.68 | Data Format | LRS | | | |
| S/P Reserved | Y | Earth Reference | N | Spin Status | D | Coop Imaging | Y | |
| Instruments Used: | DDS N | EPD N | EUV N | HIC N | MAG N | NIMS N | | |
| | PLS N | PPR N | PWS N | RS N | SSI Y | UVS Y | | |
| Observation Objective | | | | | | | | |
| <p>This observation series is a small area scan of the Gaspra system in search of Lyman-alpha outgassing. Measurements will be made by scanning the solar through the anti-solar direction around Gaspra from approximately +/- .8 degrees centered on Gaspra. One part of the observation will scan from -.8 degrees to Gaspra and the other part will scan from Gaspra to +.8 degrees. UVS will do a G channel miniscan of Lyman-alpha. At the end of the measurement UVS will change to full F and G scans for ridealong albedo measurement.</p> | | | | | | | | |
| Design Detail | | | | | | | | |
| CDS COST | 177 | | Observation to be designed in POINTER | | | | | Y |
| <p>A single observation slew will be made at approximately 20 microradians/second.</p> | | | | | | | | |
| TARGET | (26+10)*2 | = | 72 | | | | | |
| CSMOS | 10+14 | = | 24 | | | | | |
| CMDRS | (14*2)+10 | = | 38 | | | | | |
| SCIREC | 8+10 | = | 18 | | | | | |
| SCITLM | 15+10 | = | 25 | | | | | |
| TOTAL | | = | 177 | | | | | |
| Version | | | 9 | Change Date | 06/11/91 | | | |
| Submission Date | 05/20/91 | | | Changed By | V. HENDERSON | | | |

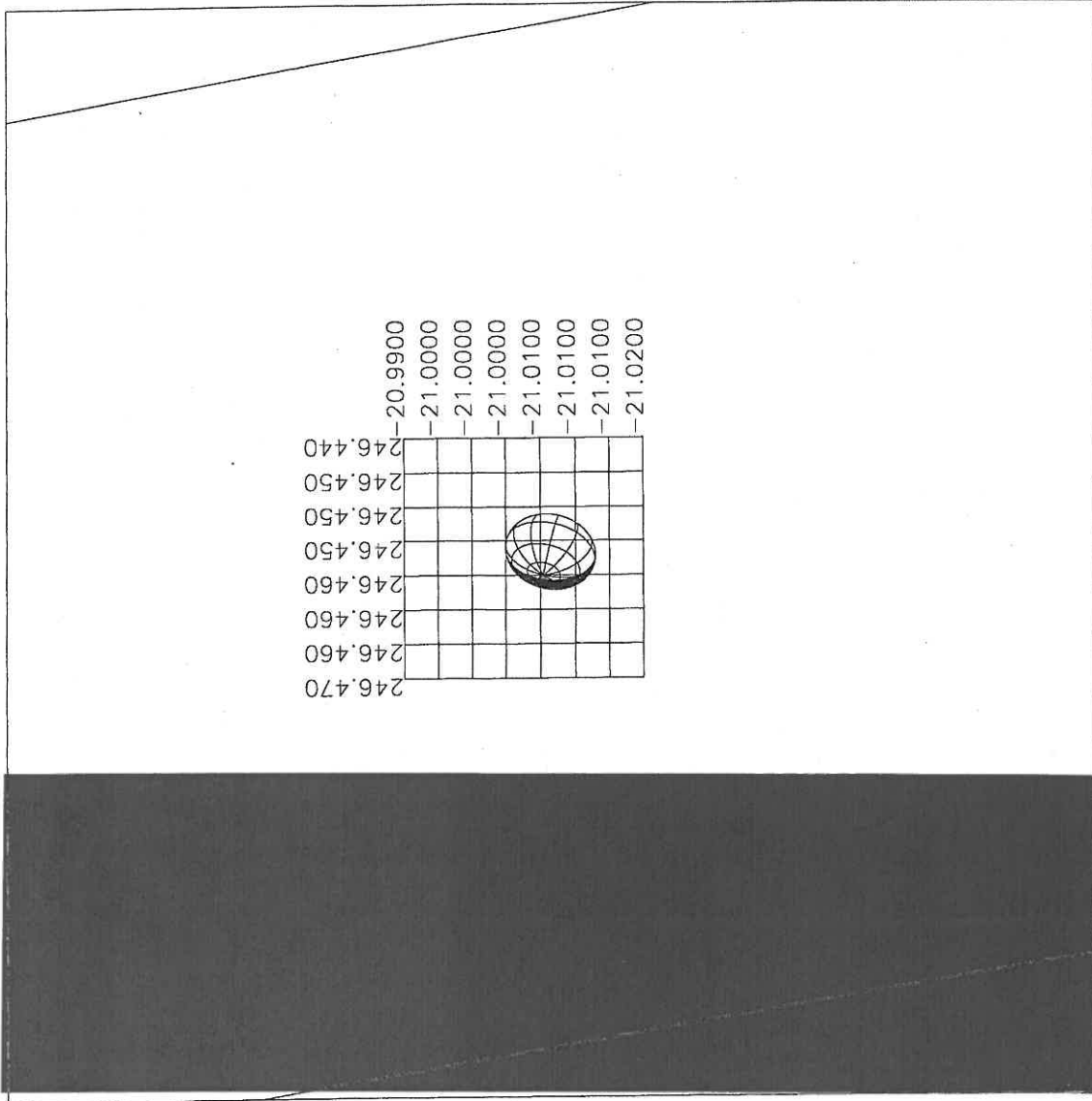
Thu Aug 9 20:47:08 2012



Start UTC_TIME : 1991-302 // 19:38:03.000
No End Time :
Start SCLK : 1/01073016:86:4:7

Target Body : GASGRA
Target Ra/Dec : 246.37 / -21.00 Deg
S/C to Body Center : 85688.29 Km (11819.075 Rg)
Z-axis Pointing (Ra / Dec) : 175.28 / 2.58 Deg

Thu Jun 21 15:27:32 2012



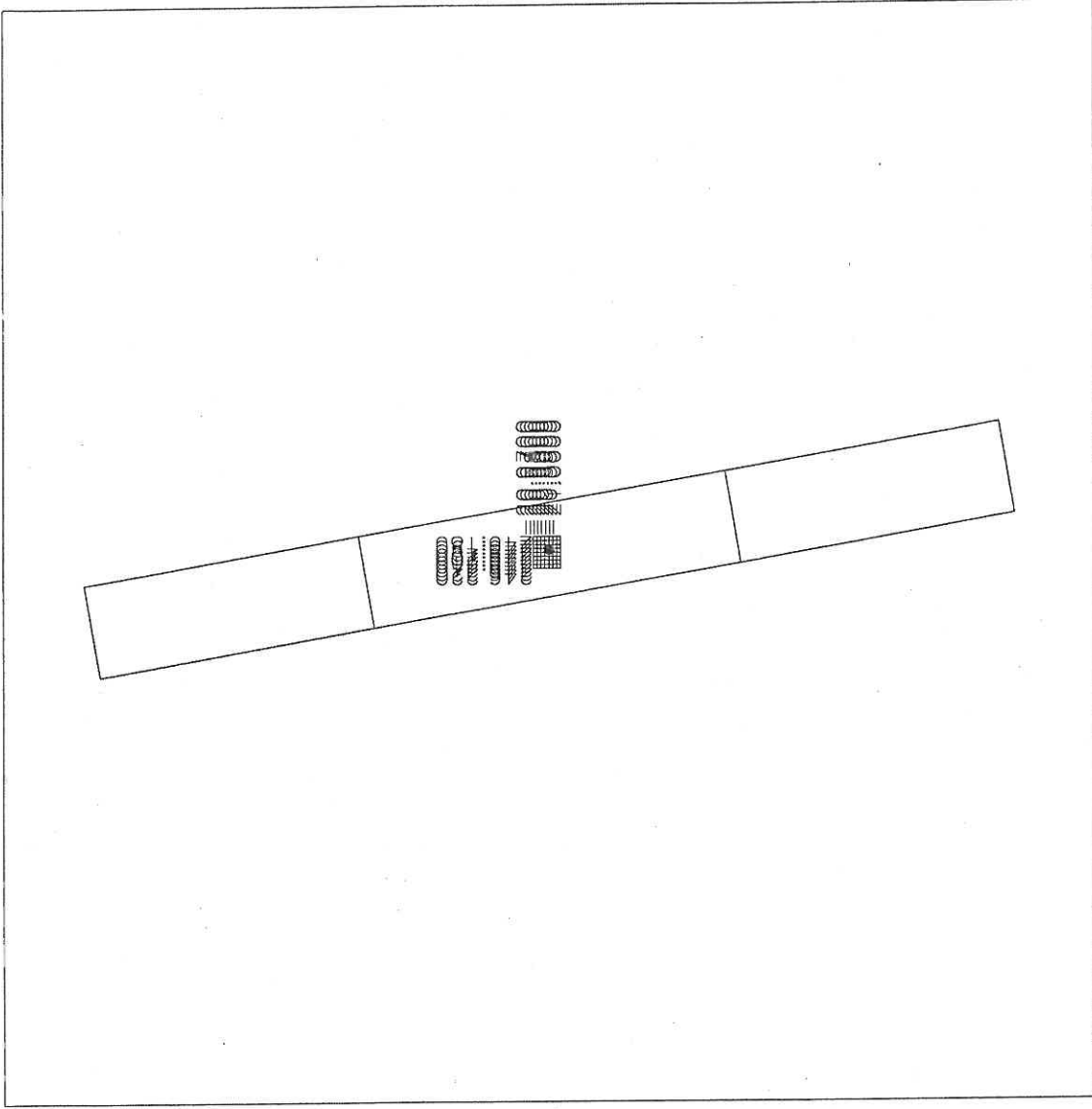
Start UTC_TIME : 1991-302 // 19:23:54.000
No End Time :
Start SCLK : 1/01073002:86:9:7

Target Body : CASPRA
Target Ra/Dec : 246.45/-21.01 Deg
S/C to Body Center : 92470.39 Km (12754.536 Rg)
Z-axis Pointing (Ra / Dec) : 175.28 / 2.58 Deg

| | | | | | | | | | | | | |
|---|--------------------------------------|-------------------|---|------------------|--------|--------------|---------|---|-----|---|------|---|
| Activity ID | Orbit GA | Target P | Inst N | OAPEL | GASPER | SeqNo 01 | Multi + | | | | | |
| Title | NIMS Meridional Albedo Map, PERiodic | | | | | | | | | | | |
| Requestor | C. BYRNE | | Team | NIMS | | | | | | | | |
| Bottom Label | PERIODIC OBSERV | | Plot Key | NIMS | | | | | | | | |
| Time System | CDS | | Encounter Load ID | EE3 | | | | | | | | |
| Start | GCA-CDS | 00000480:00:0 | 91-302/14:33:42 | GCA-000/08:05:20 | | | | | | | | |
| End | GCA-CDS | 00000479:66:0 | 91-302/14:33:59 | GCA-000/08:05:03 | | | | | | | | |
| Duration | 00000000:25:0 | | 000/00:00:17 | 000/00:00:17 | | | | | | | | |
| DMS Activity | RECORD | Minimum Data Rate | 28.8 | Data Format | MPW | | | | | | | |
| S/P Reserved | N | Earth Reference | N | Spin Status | D | Coop Imaging | N | | | | | |
| Instruments Used: | DDS | N | EPD | N | EUV | N | HIC | N | MAG | N | NIMS | Y |
| | PLS | N | PPR | Y | PWS | N | RS | N | SSI | N | UVS | Y |
| Observation Objective | | | | | | | | | | | | |
| NIMS will observe the Gaspra Light Curve every 10 degrees of Gaspra's 7.04 hour rotation in one of three spectral resolutions. | | | | | | | | | | | | |
| Design Detail | | | | | | | | | | | | |
| CDS COST | 181 | | Observation to be designed in POINTER Y | | | | | | | | | |
| The GASPER, GASCUR and GASPEC observations together provide a meridional albedo map of Gaspra by sampling every 10 degrees of Gaspra's rotation (corresponding to about 12 minutes between observations.) The frequency of observation in the three different modes are as follows: | | | | | | | | | | | | |
| 1) GASCUR - Short MAPMODE observations: Every 30 degrees of Gaspra rotation | | | | | | | | | | | | |
| 2) GASPEC - Long Map mode observations: Every 120 degrees of Gaspra rotation | | | | | | | | | | | | |
| 3) GASPER - Fixed mode observations: Performed at times other than the Short Map or Long Map observations so as the give samples every 10 degrees of Gaspra rotation. | | | | | | | | | | | | |
| NIMS will map the error ellipse plus scan platform error in the Fixed Map mode at Nyquist Frequency (0.03 mrad/sec). This is one of eighteen Fixed Map observations in the Gaspra Far Encounter. | | | | | | | | | | | | |
| Bytes: | | | | | | | | | | | | |
| SCITLM = 15 | | | | | | | | | | | | |
| 1 TARGET (no TMC assumed) = 72 | | | | | | | | | | | | |
| CMDRS (Assumes NIMS was in a mode other than Fixed Map) | | | | | | | | | | | | |
| 14*3+10 = 52 | | | | | | | | | | | | |
| CSMOS (1 sub-csmos) | | | | | | | | | | | | |
| 14+10 = 24 | | | | | | | | | | | | |
| RECORD | | | | | | | | | | | | |
| 8+10 = 18 | | | | | | | | | | | | |
| Version | 3 | | Change Date | 05/22/91 | | | | | | | | |
| Submission Date | 05/21/91 | | Changed By | C. BYRNE | | | | | | | | |

These observations repeat many times through Gaspra encounter.

Thu Aug 9 21:39:04 2012

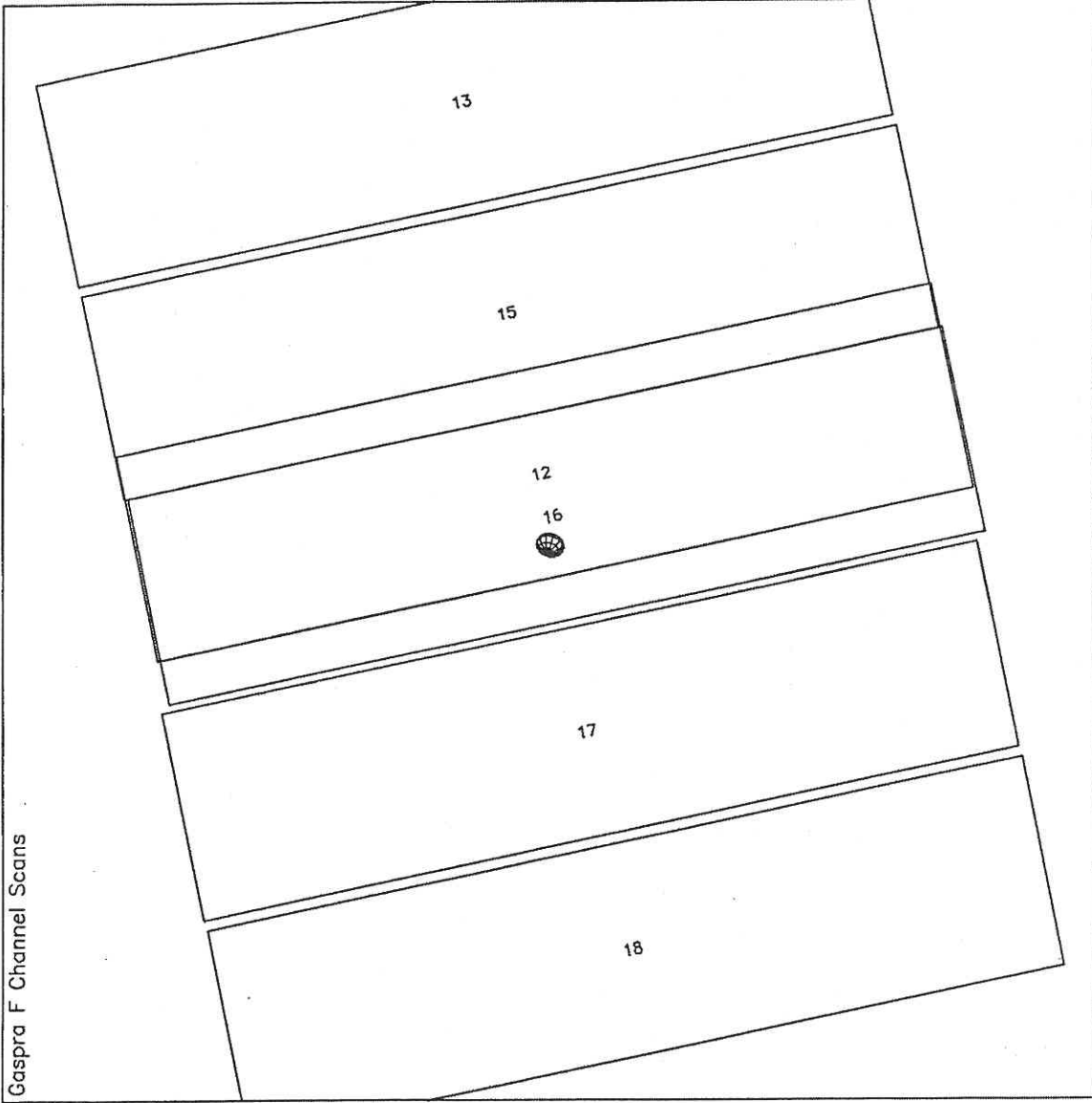


Start UTC_TIME : 1991-302 // 20:01:18.000
No End Time :
Start SCLK : 1/01073039:85:9:7

Target Body : CASPRA
Target Ra/Dec : 246.20 / -20.99 Deg
S/C to Body Center : 74545.01 Km (10282.070 Rg)
Z-axis Pointing (Ra / Dec) : 175.28 / 2.58 Deg

7-NOV-91 01:03:24

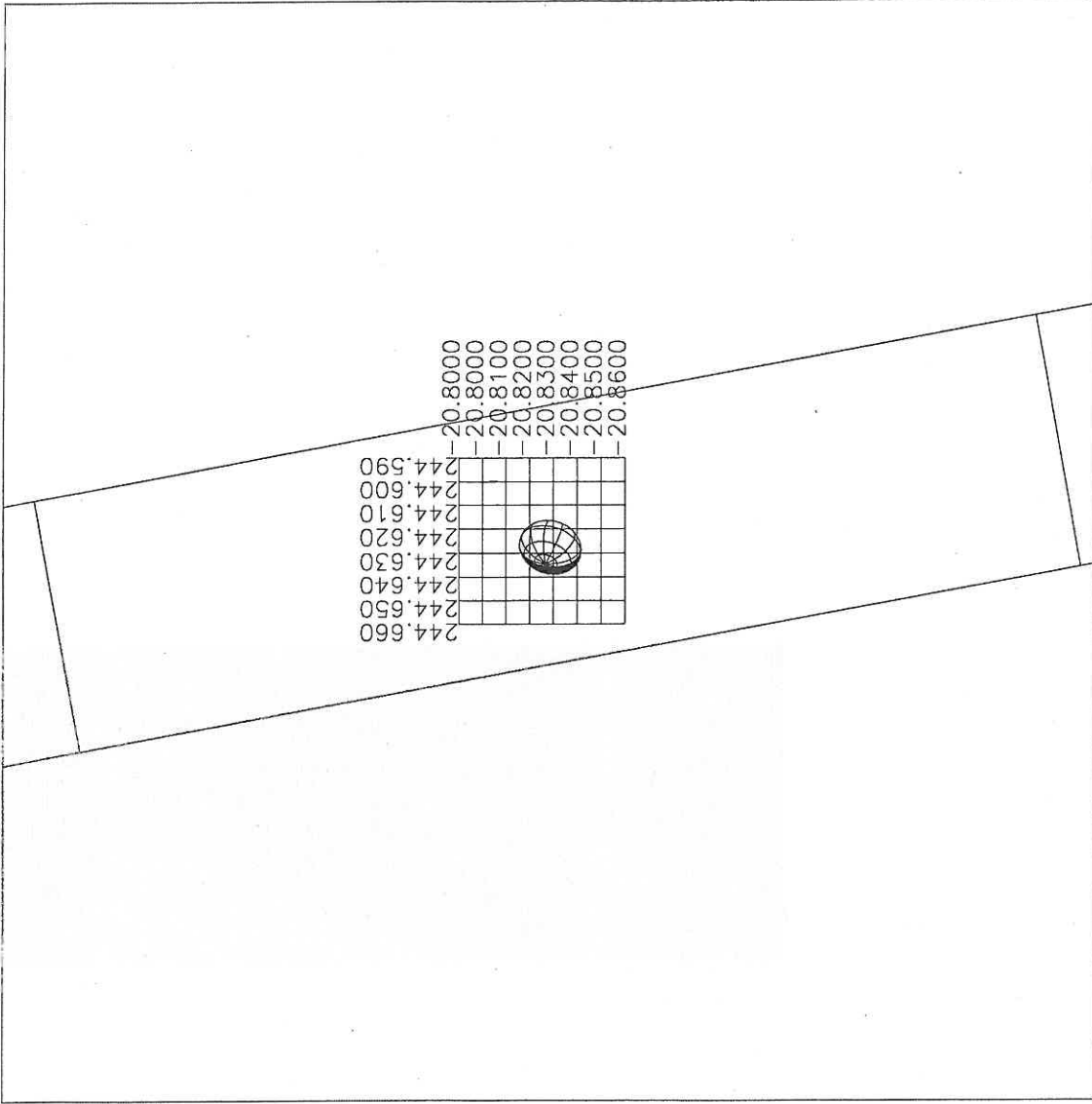
Gaspra F Channel Scans



Start UTC : 91-302//20:25:00
End UTC : 91-302//20:33:00
Start SCLK : 1/010/3063:35:0:0
Time between FOV : 15.00000 sec

Target Body : GASPRA
Target Ra/Dec : 245.97/-20.97
S/C to Body Center : 63299.90 km
FOV for the F channel

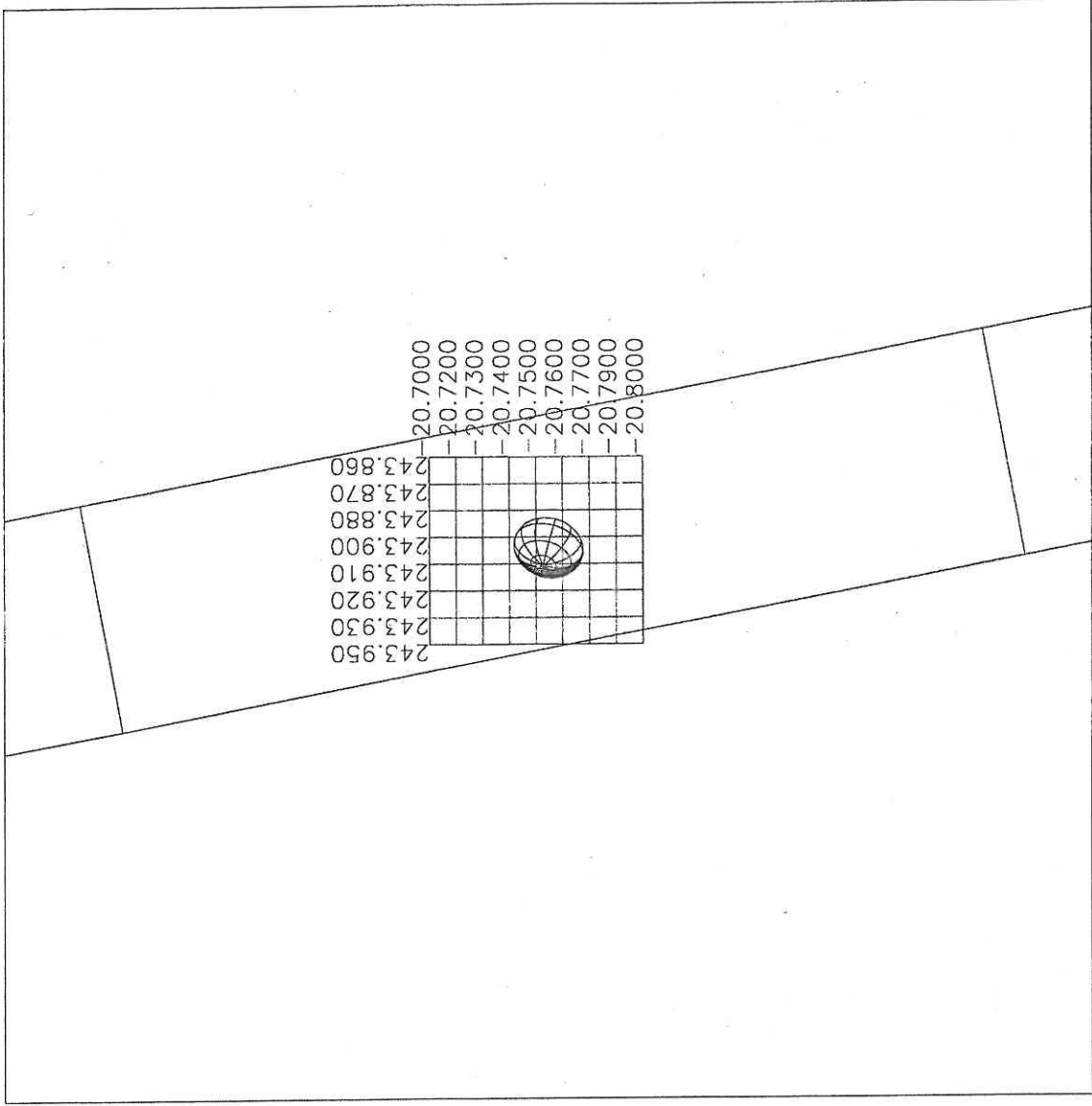
Mon Aug 13 16:07:12 2012



Start UTC_TIME : 1991-302 // 21:26:14.000
No End Time :
Start SCLK : 1/01073123:86:0:0

Target Body : CASPRA
Target Ra/Dec : 244.62 / -20.83 Deg
S/C to Body Center : 33850.58 Km (4669.0449 Rg)
Z-axis Pointing (Ra / Dec) : 175.28 / 2.58 Deg

Mon Aug 13 16:13:45 2012



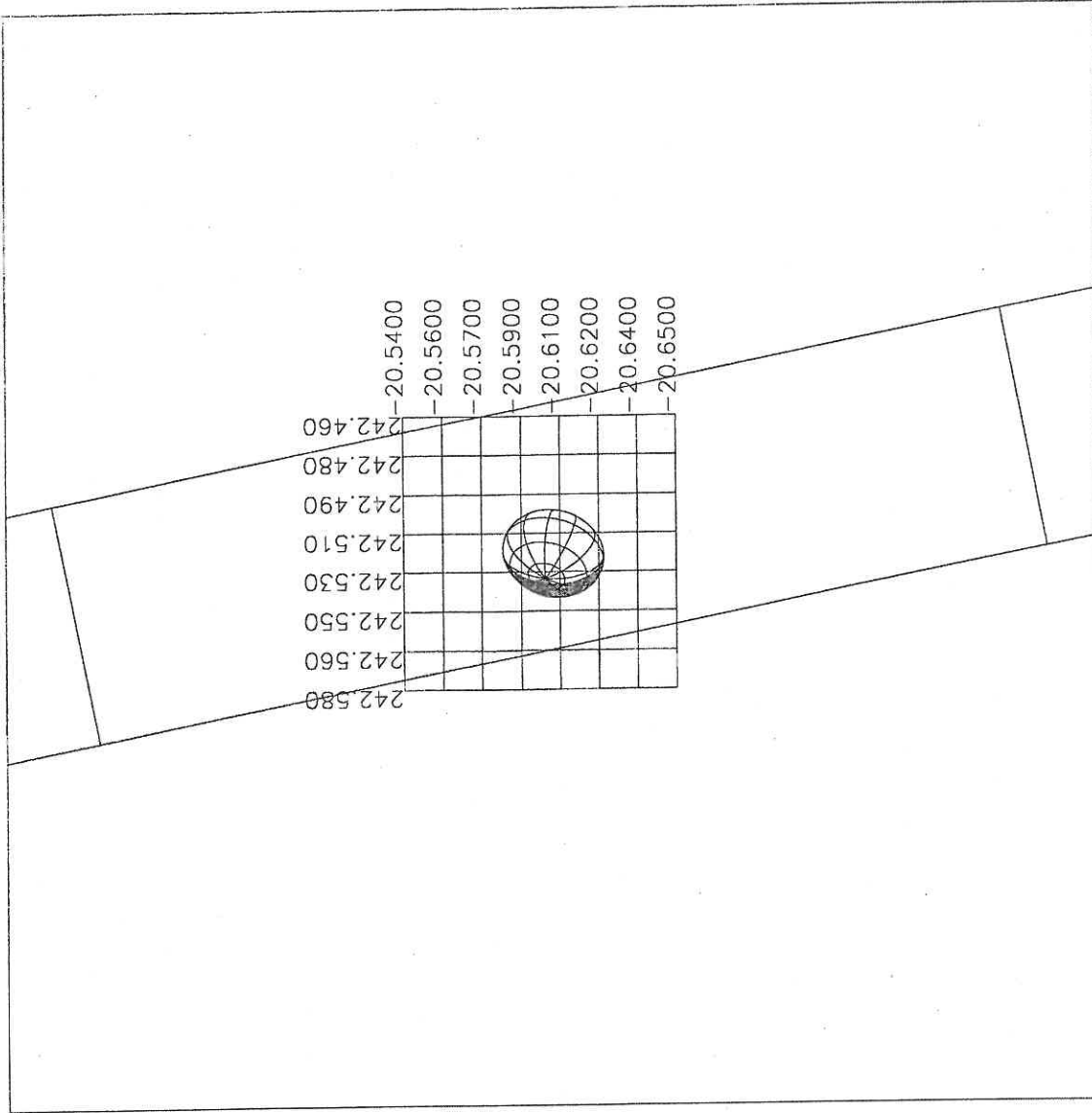
Start UTC_TIME : 1991-302 // 21:40:24.000
No End Time :
Start SCLK : 1/01073137:87:0:0
Target Body : GASPR
Target Ra/Dec : 243.90 / -20.76 Deg
S/C to Body Center : 27068.90 Km (3733.6415 Rg)
Z-axis Pointing (Ra / Dec) : 175.28 / 2.58 Deg

GALILEO ACTIVITY PLAN FORM - GASpra
 06/11/91 21:17:52 Gaspra Mtg

ACTIVITY ID: GAPNGSCHEM02+
 START TIME: GCA-CDS 00000042:45:0

| | | | | | | | | | | | | |
|---|--|-------------------|---|-------------------|----------|--------------|---------|---|-----|---|------|---|
| Activity ID | Orbit GA | Target P | Inst N | OAPEL | GSHEM | SeqNo 02 | Multi + | | | | | |
| Title | NIMS CHEMical study at 102 wavelengths | | | | | | | | | | | |
| Requestor | C. BYRNE | | | Team | NIMS | | | | | | | |
| Bottom Label | GASPRA CHEM HET | | | Plot Key | NIMS | | | | | | | |
| Time System | CDS | | | Encounter Load ID | EE3 | | | | | | | |
| Start | GCA-CDS | 00000042:45:0 | 91-302/21:56:04 | GCA-000/00:42:58 | | | | | | | | |
| End | GCA-CDS | 00000039:00:0 | 91-302/21:59:36 | GCA-000/00:39:26 | | | | | | | | |
| Duration | | 00000003:45:0 | 000/00:03:32 | 000/00:03:32 | | | | | | | | |
| DMS Activity | RECORD | Minimum Data Rate | 28.8 | Data Format | MPW | | | | | | | |
| S/P Reserved | Y | Earth Reference | N | Spin Status | D | Coop Imaging | N | | | | | |
| Instruments Used: | DDS | N | EPD | N | EUV | N | HIC | N | MAG | N | NIMS | Y |
| | PLS | N | PPR | Y | PWS | N | RS | N | SSI | N | UVS | Y |
| Observation Objective | | | | | | | | | | | | |
| Study chemical heterogeneity of Gaspra using 102 wavelengths. | | | | | | | | | | | | |
| Design Detail | | | | | | | | | | | | |
| CDS COST | 386 | | Observation to be designed in POINTER Y | | | | | | | | | |
| This is the 2nd of 4 separate scans of the error ellipse in Short Map mode. This scan will cover one hemisphere of the error ellipse in which Gaspra can be found. Scans will be done at Nyquist Frequency (0.11 mrad/sec). | | | | | | | | | | | | |
| Bytes: | | | | | | | | | | | | |
| 1 TARGET (5 TMC Sets assumed - BOTH strings) | | | | | | | | | | | | |
| $(26+11+(25*5)+10)2 = 344$ | | | | | | | | | | | | |
| CSMOS (1 strip assumed - PRI string) | | | | | | | | | | | | |
| $14+13*(0)+10 = 24$ | | | | | | | | | | | | |
| SCIREC | | | | | | | | | | | | |
| $8+10 = 18$ | | | | | | | | | | | | |
| Version | 5 | | | Change Date | 05/22/91 | | | | | | | |
| Submission Date | 05/21/91 | | | Changed By | C. BYRNE | | | | | | | |

Mon Aug 13 16:18:38 2012



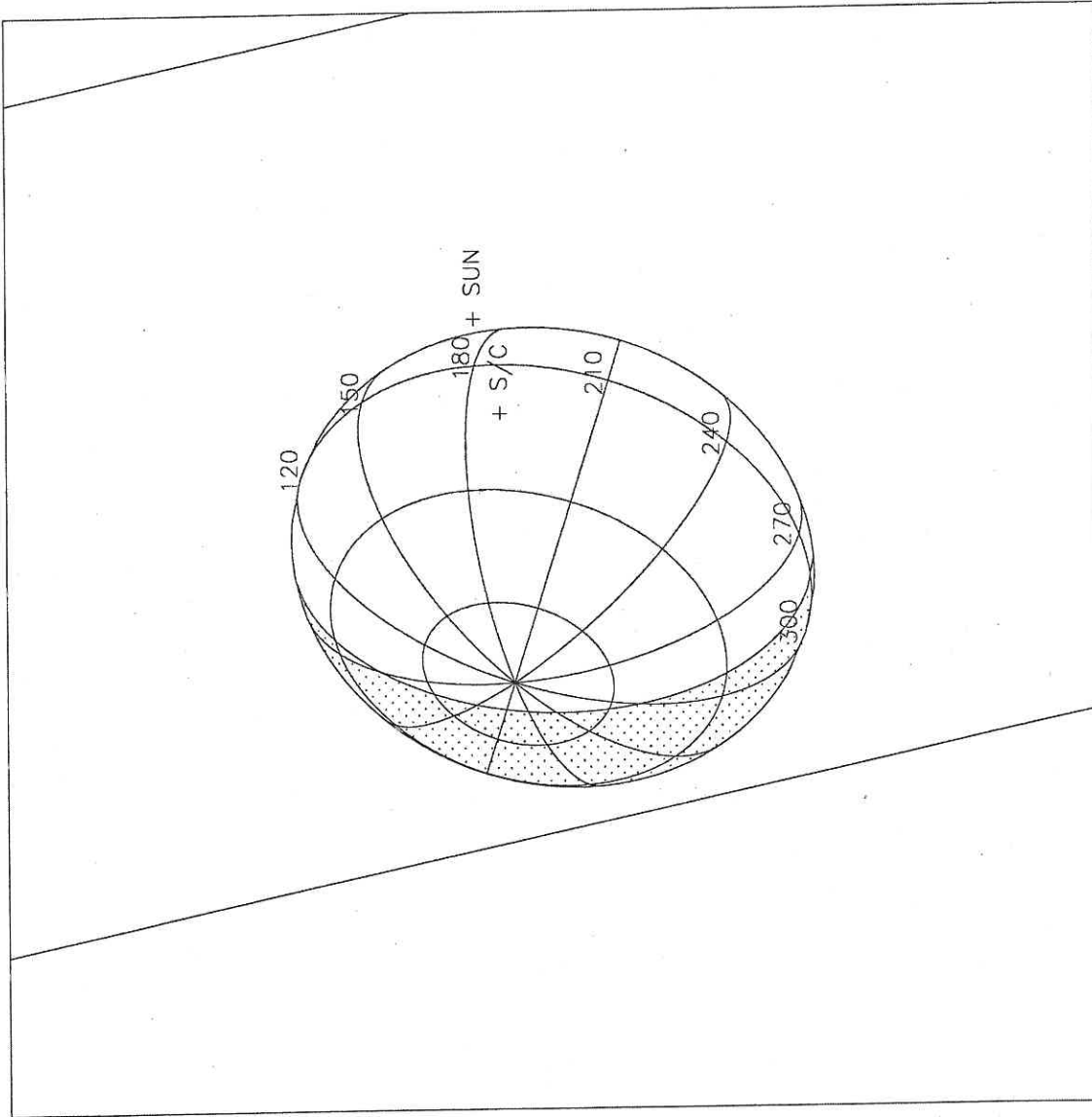
Start UTC_TIME : 1991-302 // 21:56:04.000
No End Time :
Start SCLK : 1/01073153:41:0:0
Target Body : CASPRA
Target Ra/Dec : 242.52 / -20.60 Deg
S/C to Body Center : 19576.84 Km (2700.2538 Rg)
Z-axis Pointing (Ra / Dec) : 175.28 / 2.58 Deg

GALILEO ACTIVITY PLAN FORM - GASpra
 06/11/91 21:17:57 Gaspra Mtg

ACTIVITY ID: GAPNGSCHEM04+
 START TIME: GCA-CDS 00000029:00:0

| | | | | | | | |
|---|--|---|-----------------|-------------------|----------|--------------|---------|
| Activity ID | Orbit GA | Target P | Inst N | OAPEL | GSCHEM | SeqNo 04 | Multi + |
| Title | NIMS CHEMical study at 102 wavelengths | | | | | | |
| Requestor | C. BYRNE | | | Team | NIMS | | |
| Bottom Label | GASPRA CHEM HET | | | Plot Key | NIMS | | |
| Time System | CDS | | | Encounter Load ID | EE3 | | |
| Start | GCA-CDS | 00000029:00:0 | 91-302/22:09:43 | GCA-000/00:29:19 | | | |
| End | GCA-CDS | 00000021:00:0 | 91-302/22:17:48 | GCA-000/00:21:14 | | | |
| Duration | | 00000008:00:0 | 000/00:08:05 | 000/00:08:05 | | | |
| DMS Activity | RECORD | Minimum Data Rate | 28.8 | Data Format | MPW | | |
| S/P Reserved | Y | Earth Reference | N | Spin Status | D | Coop Imaging | N |
| Instruments Used: | DDS N | EPD N | EUV N | HIC N | MAG N | NIMS Y | |
| | PLS N | PPR Y | PWS N | RS N | SSI N | UVS Y | |
| Observation Objective | | | | | | | |
| Study chemical heterogeneity of Gaspra using 102 wavelengths. | | | | | | | |
| Design Detail | | | | | | | |
| CDS COST | 401 | Observation to be designed in POINTER Y | | | | | |
| This is the last of 4 separate scans of the error ellipse in Short Map mode. This scan will cover the most probable position of Gaspra in the error ellipse (center of ellipse). Scans will be done at Nyquist Frequency (0.11 mrad/sec). | | | | | | | |
| Bytes: | | | | | | | |
| 1 SCITLM = 15 | | | | | | | |
| 1 TARGET (5 TMC Sets assumed - BOTH strings) | | | | | | | |
| $(26+11+(25*5)+10)2 = 344$ | | | | | | | |
| CSMOS (1 strip assumed - PRI string) | | | | | | | |
| $14+13*(0)+10 = 24$ | | | | | | | |
| SCIREC | | | | | | | |
| $8+10 = 18$ | | | | | | | |
| Version | 6 | | | Change Date | 05/22/91 | | |
| Submission Date | 05/21/91 | | | Changed By | C. BYRNE | | |

Thu Jun 21 15:35:41 2012



Start UTC_TIME : 1991-302 // 22:09:43.000
No End Time :
Start SCLK : 1/01073166:86:5:0

Target Body : GASGRA
Target Ra/Dec : 240.04/-20.30 Deg
S/C to Body Center : 13066.21 Km (1802.2365 Rg)
Z-axis Pointing (Ra / Dec) : 175.28 / 2.58 Deg

GALILEO ACTIVITY PLAN FORM - GASGRA
 06/11/91 21:17:58 Gaspra Mtg

ACTIVITY ID: GAPNGASMAP01-
 START TIME: GCA-CDS 00000021:00:0

| | | | | | | | |
|---|--|-------------------|-----------------|---|--------------|--------------|---------|
| Activity ID | Orbit GA | Target P | Inst N | OAPEL | GASMAP | SeqNo 01 | Multi - |
| Title | NIMS Chem Heterogeneity MAP @lower phase | | | | | | |
| Requestor | C. BYRNE | | | Team | NIMS | | |
| Bottom Label | CHEMICAL MAP | | | Plot Key | NIMS | | |
| Time System | CDS | | | Encounter Load ID | EE3 | | |
| Start | GCA-CDS | 00000021:00:0 | 91-302/22:17:48 | GCA-000/00:21:14 | | | |
| End | GCA-CDS | 00000017:00:0 | 91-302/22:21:51 | GCA-000/00:17:11 | | | |
| Duration | | 00000004:00:0 | 000/00:04:03 | 000/00:04:03 | | | |
| DMS Activity | RECORD | Minimum Data Rate | 28.8 | Data Format | MPW | | |
| S/P Reserved | Y | Earth Reference | N | Spin Status | D | Coop Imaging | Y |
| Instruments Used: | DDS N | EPD N | EUV N | HIC N | MAG N | NIMS Y | |
| | PLS N | PPR Y | PWS N | RS N | SSI Y | UVS Y | |
| Observation Objective | | | | | | | |
| Observe the distribution of composition at a compromise between phase angle (affects spectral sensitivity) and spatial resolution. | | | | | | | |
| Design Detail | | | | | | | |
| CDS COST | 753 | | | Observation to be designed in POINTER Y | | | |
| <p>The first of 2 Fixed Map Observations of Gaspra, NIMS will scan the error ellipse plus scan platform pointing error at 0.75 mrad/sec. The lower phase angle (compared to the Fixed Map at -16 rims) at this time will provide better chemical signatures. Gaspra will grow from 2.9 Nimsels to 3.7 Nimsels during this time.</p> | | | | | | | |
| Bytes: | | | | | | | |
| 1 TARGET (10 TMC sets assumed; BOTH strings) | | | | | | | |
| $(26+11+(25*10)+10)2 = 594$ | | | | | | | |
| CMDRS (Assumes instrument was in Short Map Mode and a long-running CMDRS is allowed...Counts in possibility for gain state/grating offset changes) | | | | | | | |
| $(14*3)+10 = 52$ | | | | | | | |
| CSMOS (5 strips/sub-csmos' assumed; PRI string) | | | | | | | |
| $(14+13*(6-1)+10 = 89$ | | | | | | | |
| SCIREC | | | | | | | |
| $8+10 = 18$ | | | | | | | |
| Version | 3 | | | Change Date | 06/11/91 | | |
| Submission Date | 05/21/91 | | | Changed By | V. HENDERSON | | |