Chapter 5 - Detailed Observation Designs

Contents

Introduction to Chapter 5

Detailed Observation Designs

Each NIMS Detailed Observation Design consists of an OAPEL form and a Pointer plot. The OAPEL form is a brief description of the design of the observation. The Pointer plot is a plot of the target body with the NIMS footprint incorporated in the mosaic design superimposed on the target body. The size and orientation of the target body is plotted as it appears at the time of the first NIMS footprint plotted. For long observations, the target body may rotate or move relative to the spacecraft during the observation. Some observations, such as calibrations, do not have Pointer plots.

The Pointer plots and OAPEL forms in this chapter have been updated to report the actual data returned.

The Pointer plots have the spatial extent of the actual data returned outlined with a thick line. When no data were returned for a particular observation, its Pointer plot has a single slash across the plot with the text "NO DATA RETURNED" printed in the upper left corner of the plot.

The text of the OAPEL forms have been modified to reflect the actual NIMS instrument parameters for playback. An extra line containing one or some of the following statements has been added to the Observation Objective section of the OAPEL form to report the data retun status:

```
"Data Returned"      == Data from this observation returned
"No Data Returned"   == NO Data from this observation returned
"Processor Halted"   == The NIMS Processor had halted at this time.
```

More information regarding NIMS data return can be found in Chapter 7 of this guide.

NIMS chopper turn on	ACTIVITY ID: G2NNCHOPON01- START TIME: 96-247/16:59:59.333

Activity ID: Orbit G2 Target N Inst N OAPEL CHOPON SeqNo 01 -

Title	NIMS chopper turn on			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2A	Calendar Date	09/03/96	Week	36

Start	GEE-CDS 4391:34:0	96-247/16:59:59.333	GEE-003/02:00:10.000
End	GEE-CDS 4385:40:0	96-247/17:05:59.333	GEE-003/01:54:10.000
Duration	5:85:0	000/00:06:00.000	000/00:06:00.000

Top Label	G2NNCHOPON01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	52	Report Options	BOTH	Scan Platform	No
CDS Source	PA	Spin State	DUAL	DMS	No

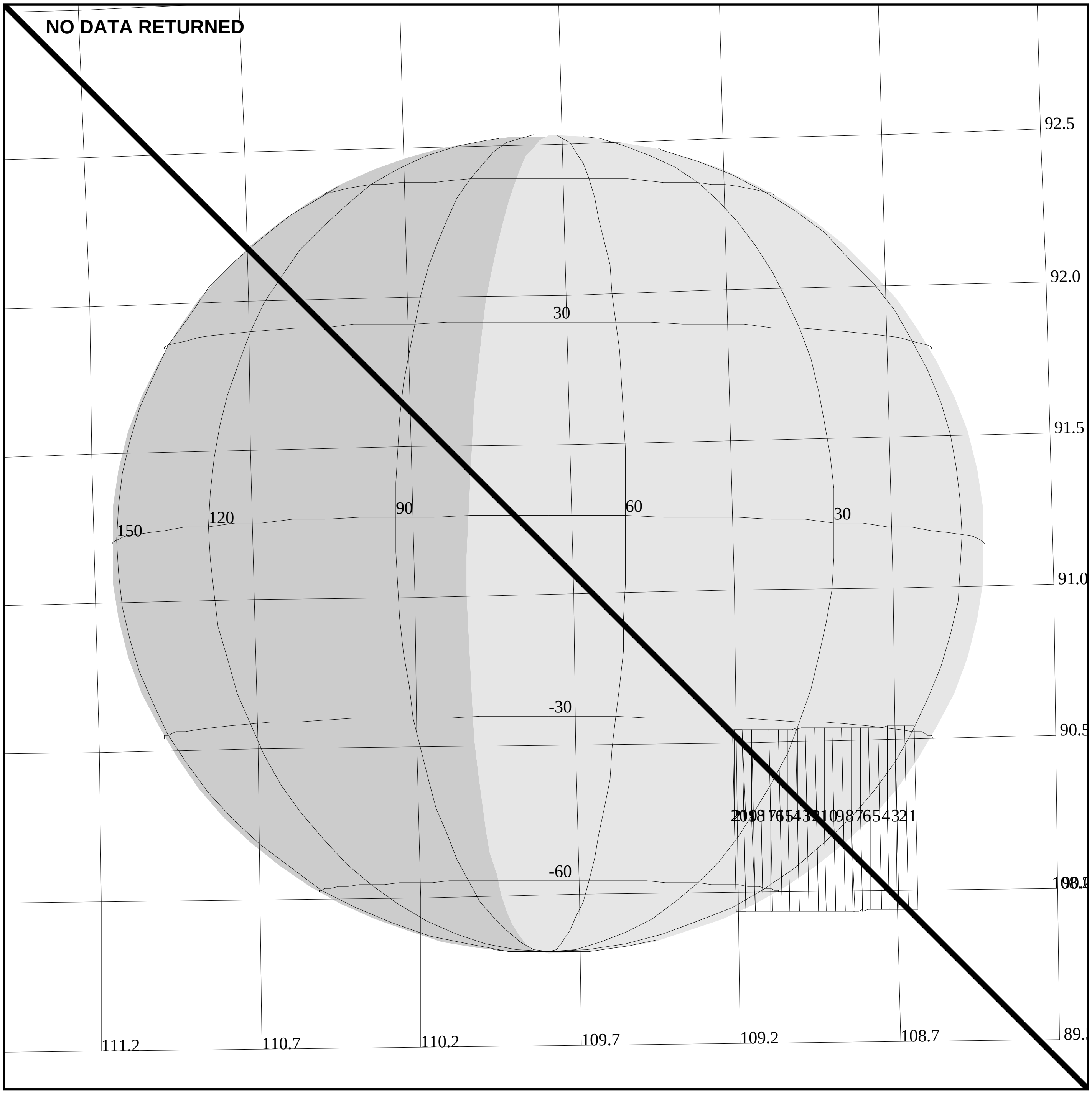
Observation Objective

To turn the NIMS instrument chopper on and change its mode to REFERENCE.

Design Detail

Use two NIMS 37IST commands, the first to turn chopper on and the second to reference:
37IST,1,0,0,OFF,0,0,0 Chopper 63 HZ
37IST,1,2,0,OFF,0,0,0 Chopper Reference
Also, issue a 37MB command to enable all mirror positions:
37MB,0,0,0,0,0,0 (00000,00000)

Galileo Activity Plan Form 06/17/96 12:41:01 rev 6/95



165EY:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS= 0/7440 TC= 1(-45 355)
A= 364 pD= 0 SR=17.430 RA50=205.02 DEC50= -9.12 cone=108.66 clock= 90.24
117EY:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7440
1:#s= 1 Cs= 10.00 XCs= 0.00 Cr= 0.00 XCr= 8.00 sD= 1080 rD= 2

G2JNSL9LIM01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNSL9LIM01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 96-251/13:37:25.933 -003/20:13:37.000 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:G2JNSL9LIM01 **DESCRIP:SL9_IMPACT**

Jupiter SL9 impact site limb observation	ACTIVITY ID: G2JNSL9LIM01- START TIME: 96-247/17:22:27.933

Activity ID: Orbit G2 Target J Inst N OAPEL SL9LIM SeqNo 01 -

Title	Jupiter SL9 impact site limb observation	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System CDS Load ID G2A Calendar Date 09/03/96 Week 36

Start	JEE-CDS 5474:13:0	96-247/17:22:27.933	JEE-003/20:14:58.000
End	JEE-CDS 5464:81:0	96-247/17:31:49.267	JEE-003/20:05:36.666
Duration	9:23:0	000/00:09:21.334	000/00:09:21.334

Top Label G2JNSL9LIM01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	202	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

High spectral resolution map of SL9 impact sites near and on Jupiter’s limb, in several methane and hydrogen absorption features. Bright limb at ~45 degrees south latitude imaged in 80 colors distributed among five spectral regions, using NIMS wavelength table JSB80A. Longitudes imaged near limb: 350 - 30 degrees west longitude (System III). Observation acquired near 80 degrees phase.

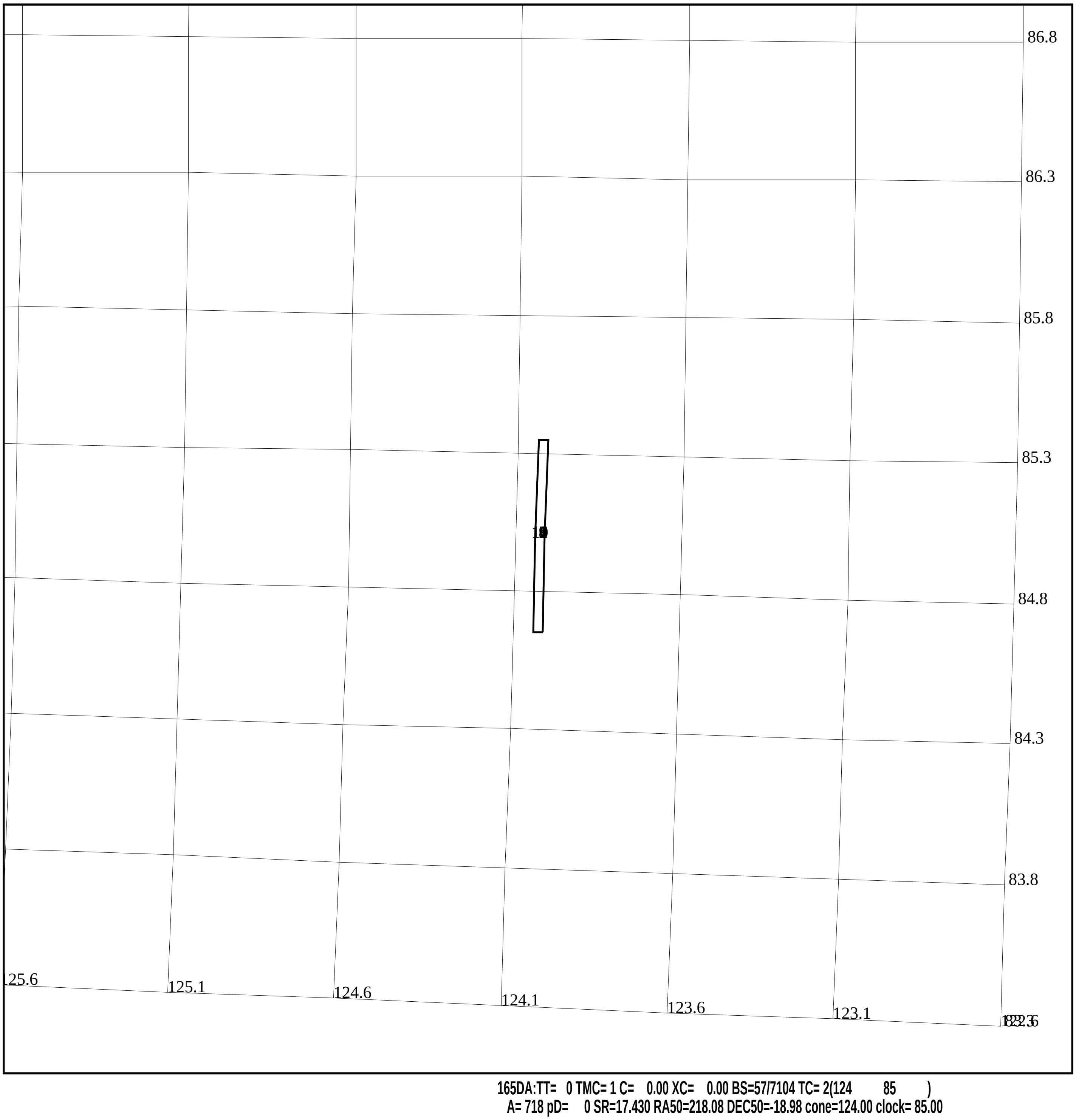
No Data Returned

Design Detail

Long map, Nyquist-sampled observation of 1*1 (10*10 mrad) area centered near limb near 45 degrees south latitude. S/C distance about 2.95 million KM. NIMS IFOV (i.e., nimsel)=1500 KM; 1*1 image covers about 30000 KM. About 6 minutes of scanning, accumulating 0.363 MBTG and using 0.0121 tracks. 2 minutes reserved for targetting, following the SSI imaging of the same target.

Long Map (LM), Gain 2, Grating Start 0, LPU, G2SB235A, G2JSB80A

Galileo Activity Plan Form 06/17/96 12:41:01 rev 6/95



G2NNOPCAL_01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2NNOPCAL_01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 1**

START:GEE 96-250/19:00:09.333 -CDS 3216:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:G2NNOPCAL_01 **DESCRIP:DARK SKY 01**

OPCAL RT	ACTIVITY ID: G2NNOPCAL_01- START TIME: 96-248/12:44:59.333

Activity ID: Orbit G2 Target N Inst N OAPEL OPCAL_ SeqNo 01 -

Title	OPCAL RT			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2A Calendar Date 09/04/96 Week 36

Start	GEE-CDS 3219:36:0	96-248/12:44:59.333	GEE-002/06:15:10.000
End	GEE-CDS 3214:39:0	96-248/12:50:00.667	GEE-002/06:10:08.666
Duration	4:88:0	000/00:05:01.334	000/00:05:01.334

Top Label G2OPCAL 01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	217	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To perform an Optical Calibration of the NIMS instrument

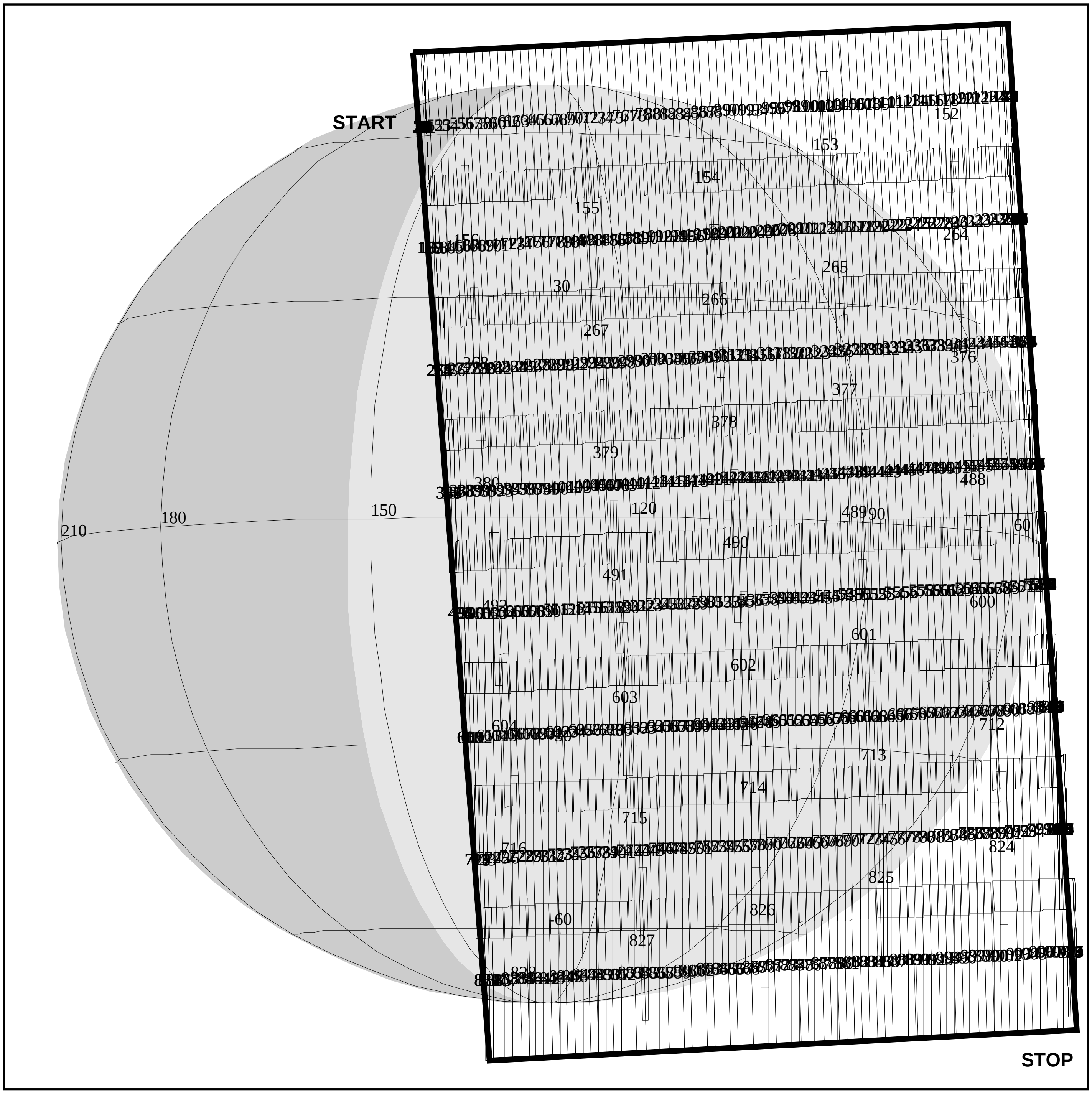
Data Returned

Design Detail

Long Map
Gain State 4
Mirror Block 1B,1B (11011,11011) (select mirror positions 8-11)
ETB selects Detectors 1 and 2 only.
NIMS is selected in Real Time for 12 mf.
Only one Long Map grating cycle is returned.

Long Map (LM), Gain 4, Grating Start 0, R/T, G2OPCAL48

Galileo Activity Plan Form 06/17/96 12:41:01 rev 6/95



165DB:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=48/0510 TC= 1(62 160)
A= 728 pD= 0 SR=17.430 RA50=219.71 DEC50=-12.67 cone=123.34 clock= 92.77
117DB:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS=48/0510
1:#s= 8 Cs= -38.00 XCs= 0.00 Cr= 38.00 XCr= -8.00 sD= 202 rD= 22

G2JNGLOMOS01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNGLOMOS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 96-251/13:37:25.933 -CDS 03587:49:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:G2JNGLOMOS01 **DESCRIP:JUPITER GLOBAL MOSAIC PART 1**

JUPITER GLOBAL MOSAIC PART 1	**ACTIVITY ID: G2JNGLOMOS01-** **START TIME: 96-249/01:06:59.267**

Activity ID: Orbit G2 Target J Inst N OAPEL GLOMOS SeqNo 01 -

Title	JUPITER GLOBAL MOSAIC PART 1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	G2A	Calendar Date	09/05/96	Week	36

Start	JEE-CDS 3590:50:0	96-249/01:06:59.267	JEE-002/12:30:26.666
End	JEE-CDS 3576:62:0	96-249/01:21:00.600	JEE-002/12:16:25.333
Duration	13:79:0	000/00:14:01.333	000/00:14:01.333

Top Label	G2JNGLOMOS01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	178	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Part 1 of Jupiter global mosaic.
Jupiter imaged in 5 colors (0.728, 1.594, 1.875, 2.156 and 4.982 microns) to obtain global maps depicting features at ~1100 km/nimsel resolution.
This map acquired near 130 degrees CML.

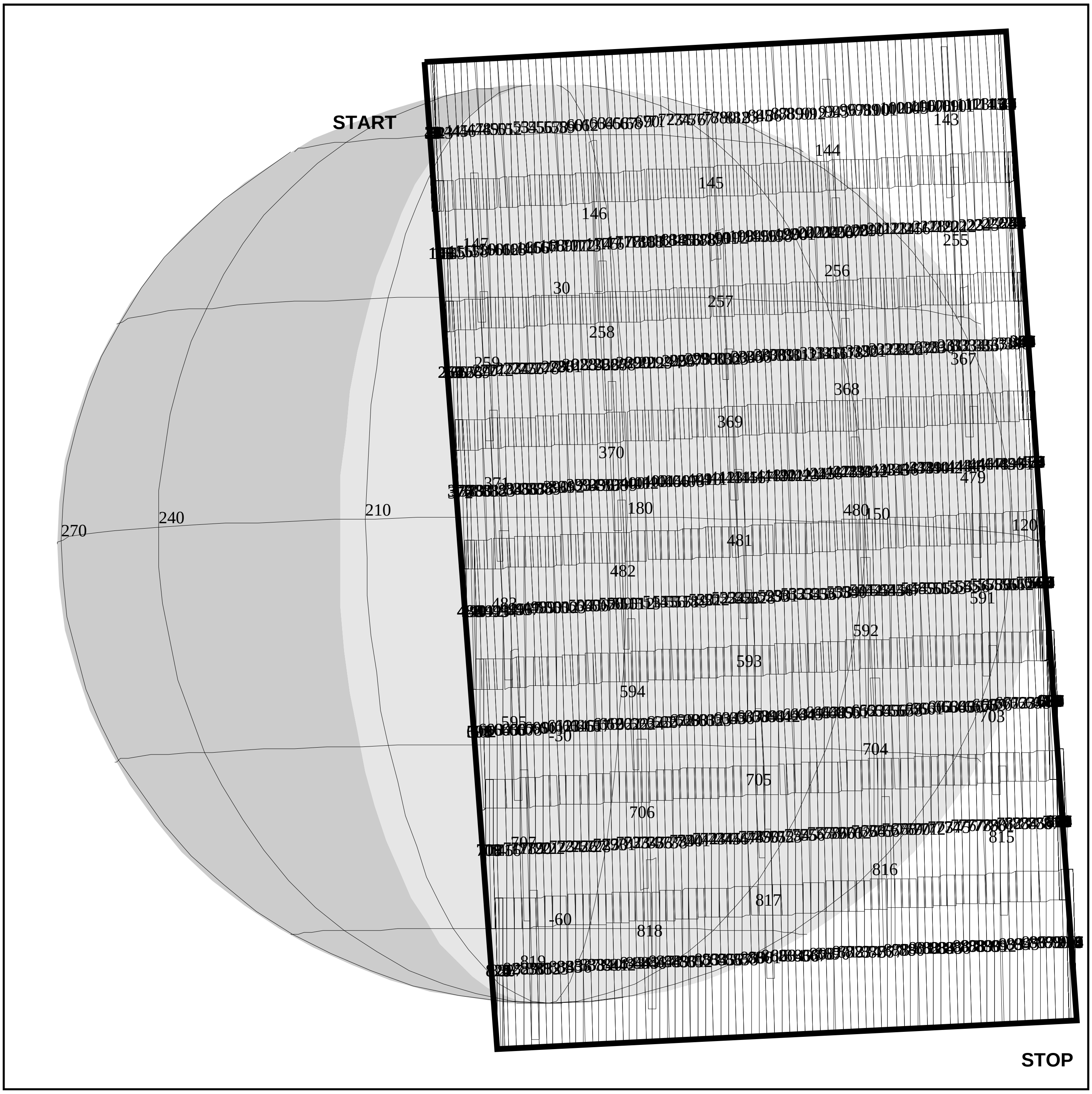
Data Returned - some gores.

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. 8 tiers, acquired near 28 RJ, each covering pole-to-pole in N/S direction and about 1 fractional radius in the East-West direction (i.e., ~60 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
4 minutes reserved for targetting.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, G2JGM10A, G2JGM05A

Galileo Activity Plan Form   06/17/96 12:41:01   rev 6/95



165DC:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=39/8528 TC= 1(60 215)
A= 728 pD= 0 SR=17.430 RA50=220.59 DEC50=-13.01 cone=124.26 clock= 92.77
117DC:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS=39/8528
1:#s= 8 Cs= -38.00 XCs= 0.00 Cr= 38.00 XCr= -8.00 sD= 202 rD= 22

G2JNGLOMOS02

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNGLOMOS02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 96-251/13:37:25.933 -CDS 03488:58:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:G2JNGLOMOS02 **DESCRIP:JUPITER GLOBAL MOSAIC PART 2**

JUPITER GLOBAL MOSAIC PART 2	**ACTIVITY ID: G2JNGLOMOS02-** **START TIME: 96-249/02:46:59.267**

Activity ID: Orbit G2 Target J Inst N OAPEL GLOMOS SeqNo 02 -

Title	JUPITER GLOBAL MOSAIC PART 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID G2A Calendar Date 09/05/96 Week 36

Start	JEE-CDS 3491:59:0	96-249/02:46:59.267	JEE-002/10:50:26.666
End	JEE-CDS 3477:71:0	96-249/03:01:00.600	JEE-002/10:36:25.333
Duration	13:79:0	000/00:14:01.333	000/00:14:01.333

Top Label G2JNGLOMOS02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Part 2 of Jupiter global mosaic.
Jupiter imaged in 5 colors (0.728, 1.594, 1.875, 2.156 and 4.982 microns) to obtain global maps depicting features at ~1100 km/nimsel resolution.
This map acquired near 180 degrees CML.

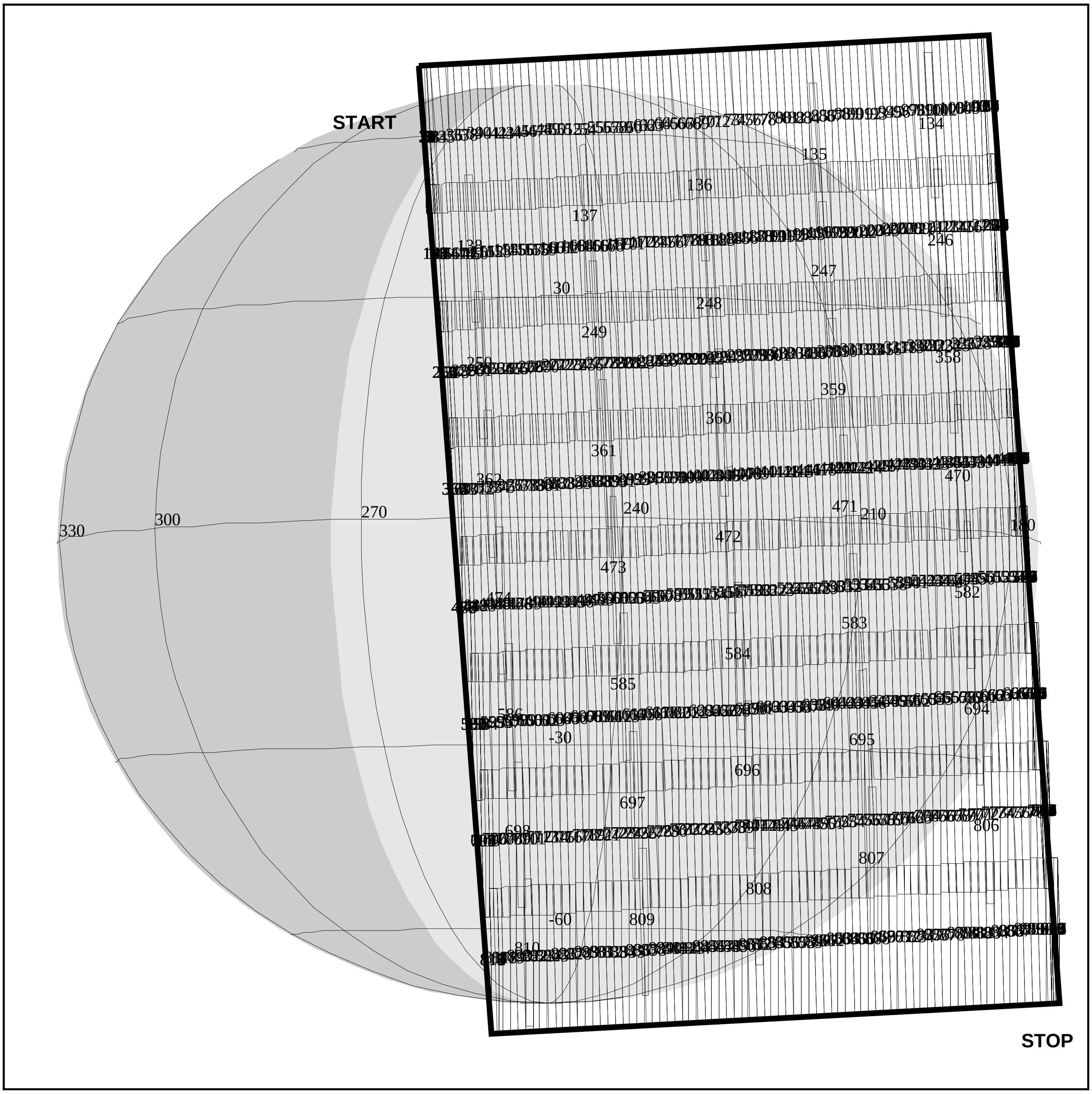
Data Returned - some gores.

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. 8 tiers, acquired near 28 RJ, each covering pole-to-pole in N/S direction and about 1 fractional radius in the East-West direction (i.e., ~60 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
4 minutes reserved for targetting.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, G2JGM10A, G2JGM05A

Galileo Activity Plan Form 06/17/96 12:41:01 rev 6/95



165DD:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=30/6546 TC= 1(59 275)
A= 728 pD= 0 SR=17.430 RA50=221.57 DEC50=-13.37 cone=125.28 clock= 92.79
117DD:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS=30/6546
1:#s= 8 Cs= -38.00 XCs= 0.00 Cr= 38.00 XCr= -8.00 sD= 202 rD= 22

G2JNGLOMOS03

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNGLOMOS03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 96-251/13:37:25.933 -CDS 003389:67:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:G2JNGLOMOS03 **DESCRIP:JUPITER GLOBAL MOSAIC PART 3**

JUPITER GLOBAL MOSAIC PART 3 — ACTIVITY ID: G2JNGLOMOS03- — START TIME: 96-249/04:26:59.267

Activity ID: Orbit G2 Target J Inst N OAPEL GLOMOS SeqNo 03 -

Title	JUPITER GLOBAL MOSAIC PART 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID	G2A	Calendar Date	09/05/96	Week	36

Start	JEE-CDS 3392:68:0	96-249/04:26:59.267	JEE-002/09:10:26.666
End	JEE-CDS 3378:80:0	96-249/04:41:00.600	JEE-002/08:56:25.333
Duration	13:79:0	000/00:14:01.333	000/00:14:01.333

Top Label   G2JNGLOMOS03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

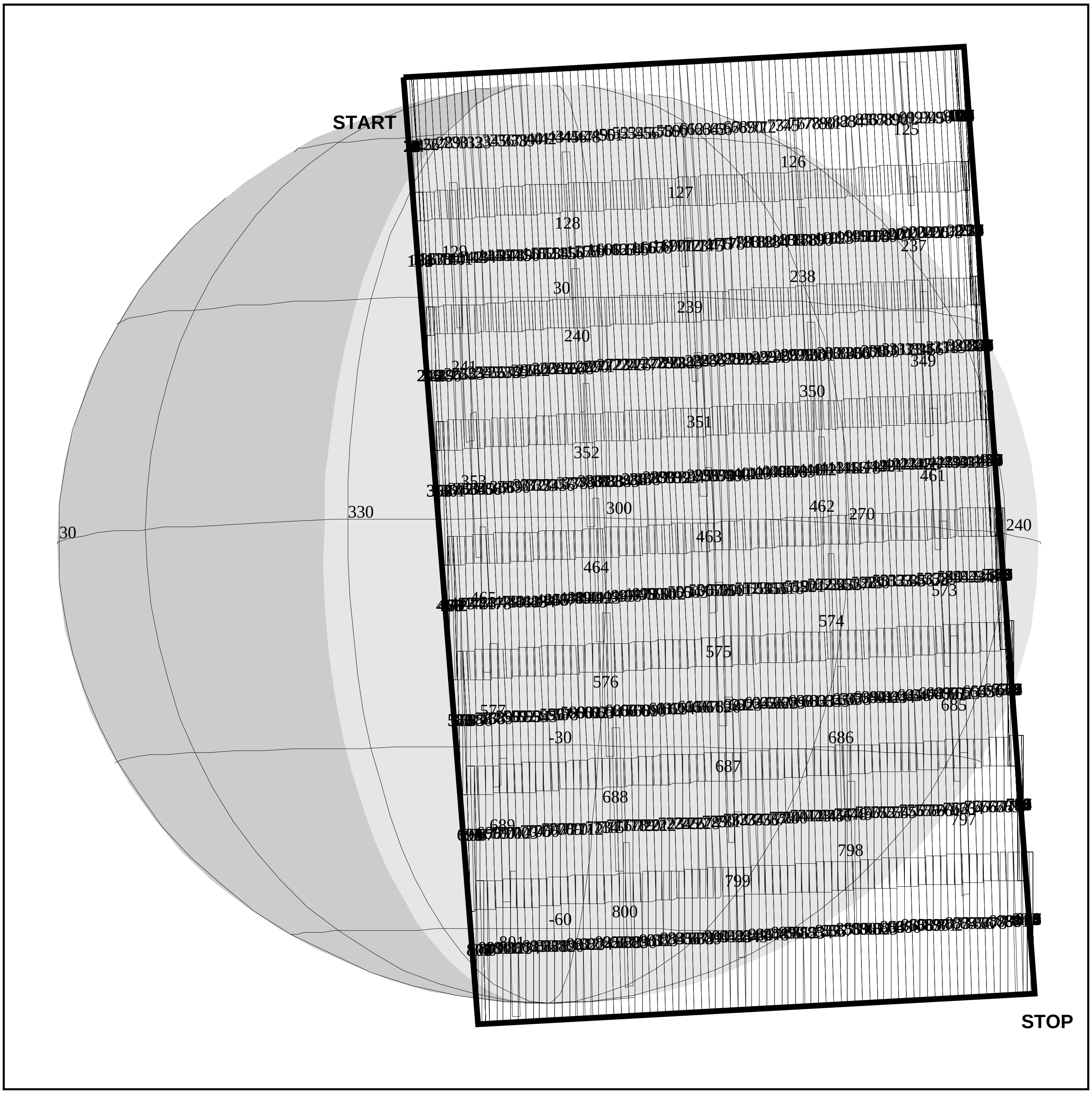
Part 3 of Jupiter global mosaic.
Jupiter imaged in 5 colors (0.728, 1.594, 1.875, 2.156 and 4.982 microns) to obtain global maps depicting features at ~1100 km/nimsel resolution.
This map acquired near 250 degrees CML.

Data Returned - some gores.

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. 8 tiers, acquired near 28 RJ, each covering pole-to-pole in N/S direction and about 1 fractional radius in the East-West direction (i.e., ~60 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
4 minutes reserved for targetting.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, G2JGM10A, G2JGM05A



165DE:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=21/4200 TC= 1(57 335)
A= 728 pD= 0 SR=17.430 RA50=222.61 DEC50=-13.76 cone=126.36 clock= 92.80
117DE:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS=21/4200
1:#s= 8 Cs= -38.00 XCs= 0.00 Cr= 38.00 XCr= -8.00 sD= 202 rD= 22

G2JNGLOMOS04

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNGLOMOS04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 96-251/13:37:25.933 -CDS 003292:76:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:G2JNGLOMOS04 **DESCRIP:JUPITER GLOBAL MOSAIC PART 4**

JUPITER GLOBAL MOSAIC PART 4	ACTIVITY ID: G2JNGLOMOS04- START TIME: 96-249/06:03:56.600

Activity ID: Orbit G2 Target J Inst N OAPEL GLOMOS SeqNo 04 -

Title	JUPITER GLOBAL MOSAIC PART 4			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID G2A Calendar Date 09/05/96 Week 36

Start	JEE-CDS 3296:78:0	96-249/06:03:56.600	JEE-002/07:33:29.333
End	JEE-CDS 3282:90:0	96-249/06:17:57.933	JEE-002/07:19:28.000
Duration	13:79:0	000/00:14:01.333	000/00:14:01.333

Top Label G2JNGLOMOS04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Part 4 of Jupiter global mosaic.
Jupiter imaged in 5 colors (0.728, 1.594, 1.875, 2.156 and 4.982 microns) to obtain global maps depicting features at ~1100 km/nimsel resolution.
This map acquired near 310 degrees CML.

Data Returned - some gores.

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. 8 tiers, acquired near 28 RJ, each covering pole-to-pole in N/S direction and about 1 fractional radius in the East-West direction (i.e., ~60 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
4 minutes reserved for targetting.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, G2JGM10A, G2JGM05A

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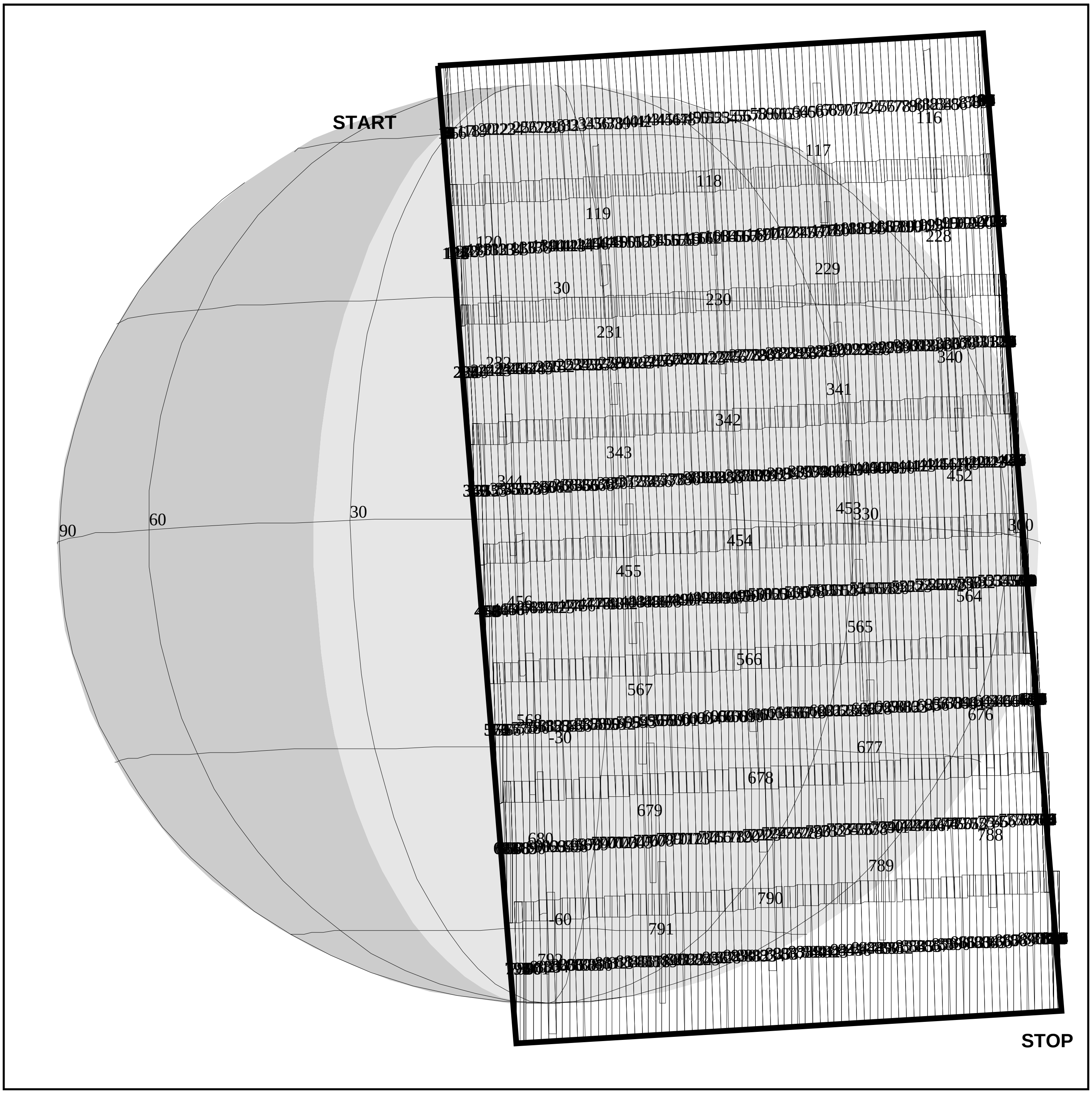


165DF:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=12/2582 TC= 1(60 30)
A= 728 pD= 0 SR=17.430 RA50=223.57 DEC50=-14.03 cone=127.33 clock= 92.90
117DF:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS=12/2582
1:#s= 8 Cs= -38.00 XCs= 0.00 Cr= 38.00 XCr= -8.50 sD= 202 rD= 22

G2JNGLOMOS05

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNGLOMOS05

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 96-251/13:37:25.933 -CDS 03191:85:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:G2JNGLOMOS05 **DESCRIP:JUPITER GLOBAL MOSAIC PART 5**

JUPITER GLOBAL MOSAIC PART 5	ACTIVITY ID: G2JNGLOMOS05- START TIME: 96-249/07:47:56.600

Activity ID: Orbit G2 Target J Inst N OAPEL GLOMOS SeqNo 05 -

Title	JUPITER GLOBAL MOSAIC PART 5			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	G2A	Calendar Date	09/05/96	Week	36

Start	JEE-CDS 3194:00:0	96-249/07:47:56.600	JEE-002/05:49:29.333
End	JEE-CDS 3182:00:0	96-249/08:00:04.600	JEE-002/05:37:21.333
Duration	12:00:0	000/00:12:08.000	000/00:12:08.000

Top Label	G2JNGLOMOS05-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Part 5 of Jupiter global mosaic.
Jupiter imaged in 5 colors (0.728, 1.594, 1.875, 2.156 and 4.982 microns) to obtain global maps depicting features at ~1100 km/nimsel resolution.
This map acquired near 10 degrees CML.

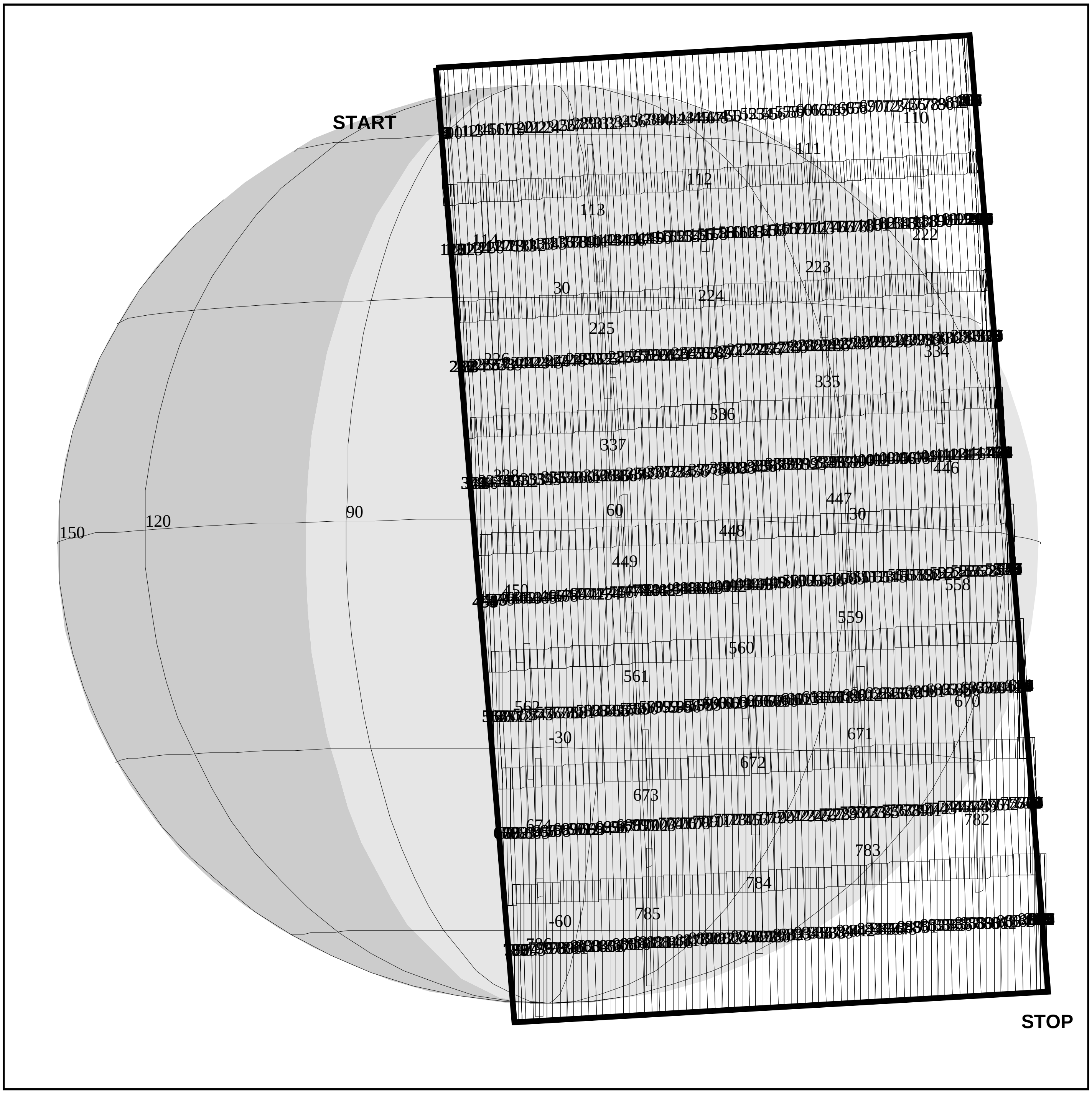
Data Returned - some gores.

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. 8 tiers, acquired near 28 RJ, each covering pole-to-pole in N/S direction and about 1 fractional radius in the East-West direction (i.e., ~60 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
4 minutes reserved for targetting.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, G2JGM10A, G2JGM05A

Galileo Activity Plan Form 06/17/96 12:41:01 rev 6/95



165DG:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 6/0600 TC= 1(60 90)
A= 728 pD= 0 SR=17.430 RA50=224.68 DEC50=-14.39 cone=128.47 clock= 92.95
117DG:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 6/0600
1:#s= 8 Cs= -38.00 XCs= 0.00 Cr= 38.00 XCr= -8.50 sD= 202 rD= 22

G2JNGLOMOS06

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNGLOMOS06

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 96-251/13:37:25.933 -CDS 03093:03:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:G2JNGLOMOS06 **DESCRIP:JUPITER GLOBAL MOSAIC PART 6**

JUPITER GLOBAL MOSAIC PART 6	**ACTIVITY ID: G2JNGLOMOS06-** **START TIME: 96-249/09:27:00.600**

Activity ID: Orbit G2 Target J Inst N OAPEL GLOMOS SeqNo 06 -

Title	JUPITER GLOBAL MOSAIC PART 6			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	G2A	Calendar Date	09/05/96	Week	36

Start	JEE-CDS 3096:02:0	96-249/09:27:00.600	JEE-002/04:10:25.333
End	JEE-CDS 3082:16:0	96-249/09:41:00.600	JEE-002/03:56:25.333
Duration	13:77:0	000/00:14:00.000	000/00:14:00.000

Top Label	G2JNGLOMOS06-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Part 6 of Jupiter global mosaic.
Jupiter imaged in 5 colors (0.728, 1.594, 1.875, 2.156 and 4.982 microns) to obtain global maps depicting features at ~1100 km/nimsel resolution.
This map acquired near 70 degrees CML.

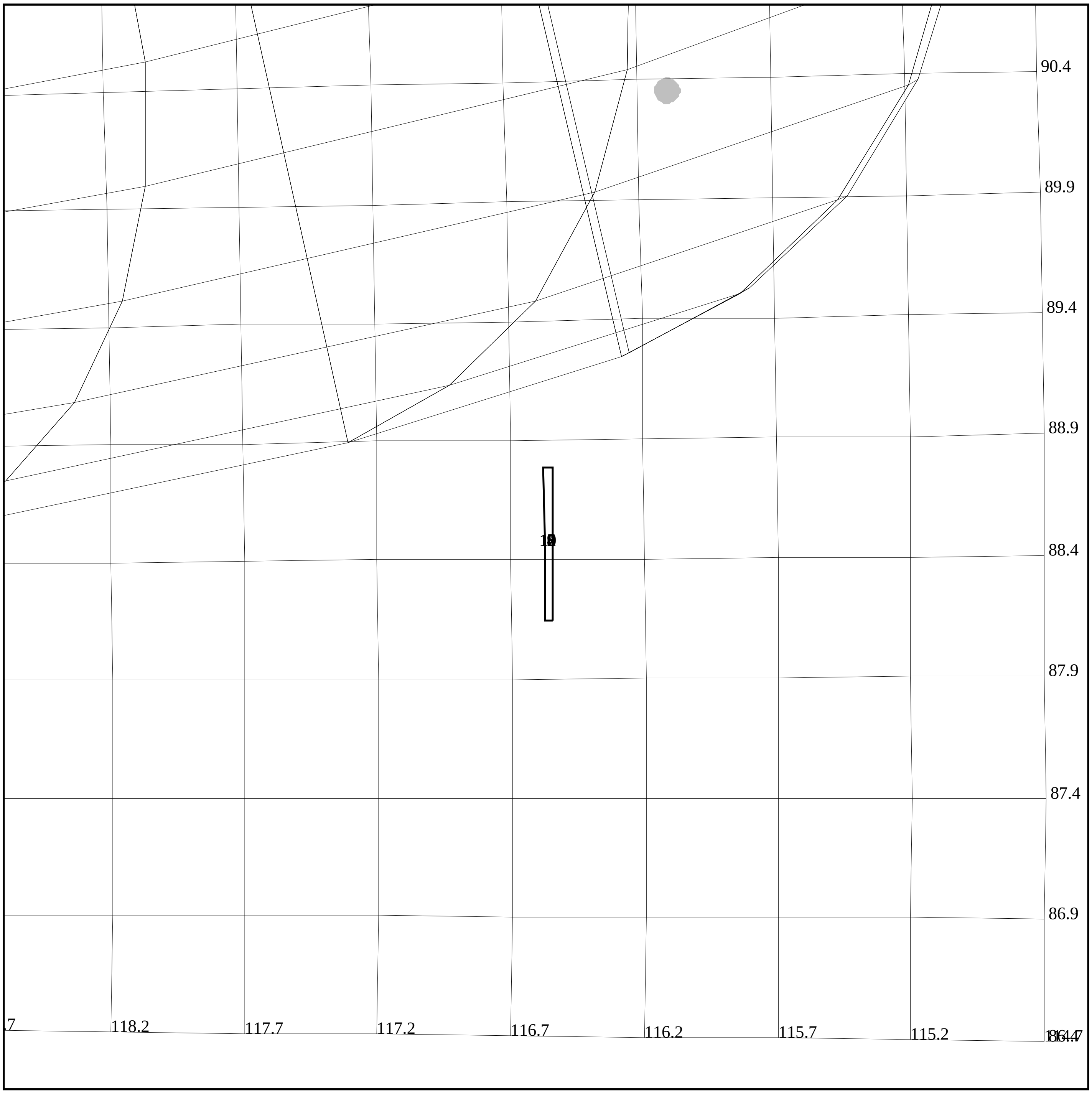
Data Returned - some gores.

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. 8 tiers, acquired near 28 RJ, each covering pole-to-pole in N/S direction and about 1 fractional radius in the East-West direction (i.e., ~60 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
4 minutes reserved for targetting.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, G2JGM10A, G2JGM05A

Galileo Activity Plan Form 06/17/96 12:41:02 rev 6/95



165DH:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=36/3330 TC= 2(116.6 88.5)
A= 718 pD= 0 SR=12.000 RA50=211.88 DEC50=-13.64 cone=116.60 clock= 88.50

G2HNDARK__02

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2HNDARK__02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 1**

START:GEE 96-250/19:00:09.333 -001/09:14:40.000 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:G2HNDARK__02 **DESCRIP:DARK SKY 02**

DARK SKY	ACTIVITY ID: G2HNDARK 02- START TIME: 96-249/09:42:12.000

Activity ID: Orbit G2 Target H Inst N OAPEL DARK SeqNo 02 -

Title	DARK SKY			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2A	Calendar Date	09/05/96	Week	36

Start	GEE-CDS 1976:00:0	96-249/09:42:12.000	GEE-001/09:17:57.333
End	GEE-CDS 1969:00:0	96-249/09:49:16.667	GEE-001/09:10:52.666
Duration	7:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	G2HNDARK 02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	117	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Collect Dark Values for calibration purposes.

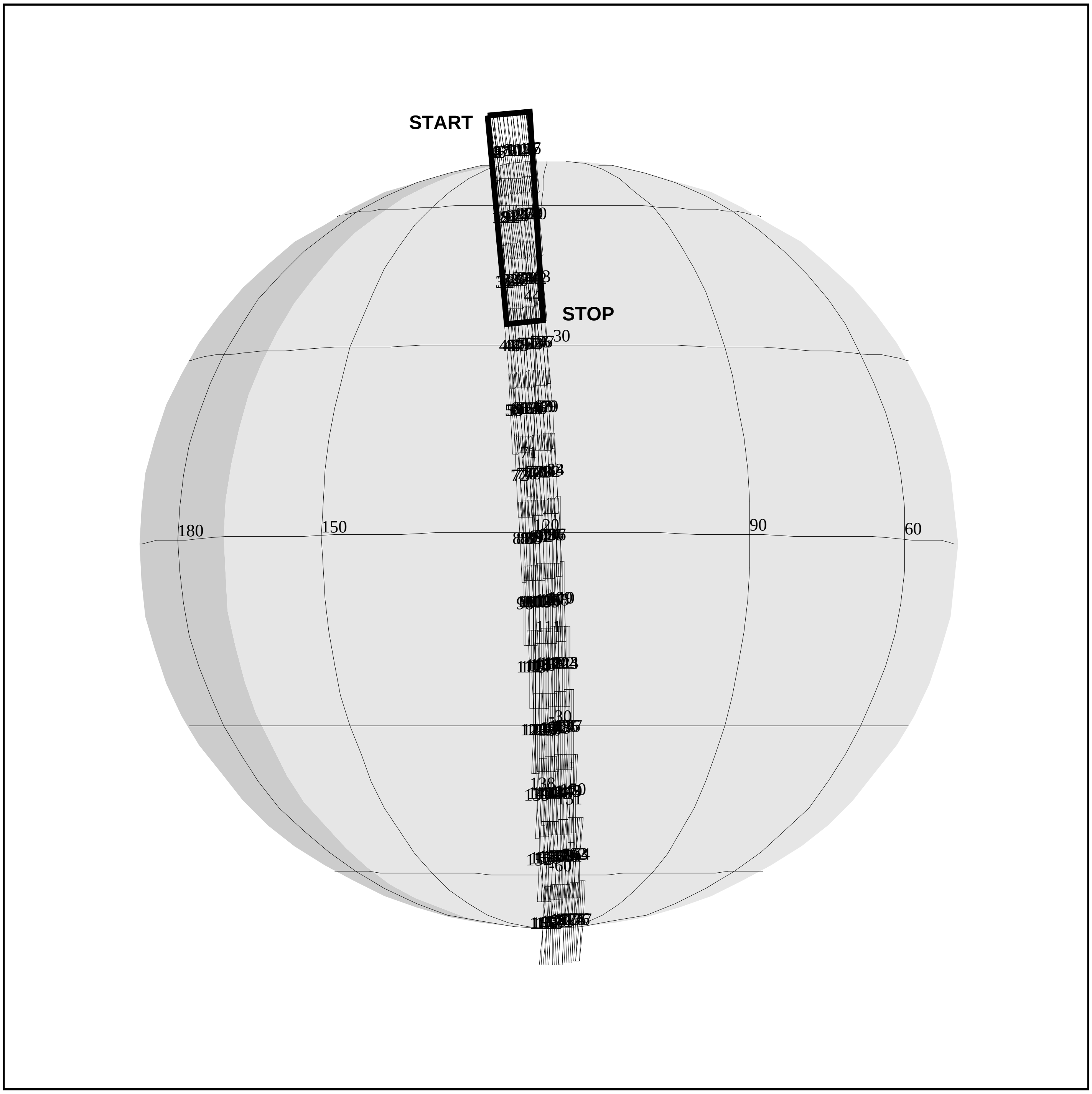
Data Returned

Design Detail

Slew to dark space and record 1 Rim of dark values.
Long Map
Gain State 2

Long Map (LM), Gain 2, Grating Start 0, LPU, G2DRK34, G2DRK34

Galileo Activity Plan Form 06/17/96 12:41:02 rev 6/95



165DK:TT= 0 TMC= 1 C= 5.00 XC= 6.00 BS=56/6654 TC= 1(62 120)
A= 728 pD= 0 SR=17.430 RA50=246.44 DEC50=-19.66 cone=149.85 clock= 95.44
117DK:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS=56/6654
1:#s= 13 Cs= -3.90 XCs= 0.00 Cr= 5.20 XCr= -8.00 sD= 312 rD= 36

G2JNTHRMNS03

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNTHRMNS03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:JEE 96-251/13:37:25.933 -CDS 1795:41:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.750

OBSERVATION:G2JNTHRMNS03

DESCRIP:JUPITER THERMAL NS STRIPES 03

JUPITER THERMAL NORTH-SOUTH STRIPES PRT3 ACTIVITY ID: G2JNTHRMNS03-
START TIME: 96-250/07:17:57.933

Activity ID: Orbit G2 Target J Inst N OAPEL THRMNS SeqNo 03 -

Title	JUPITER THERMAL NORTH-SOUTH STRIPES PRT3	Instrument		NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group	AWG

Time System	CDS	Load ID	G2A	Calendar Date	09/06/96	Week	36

Start	JEE-CDS 1799:43:0	96-250/07:17:57.933	JEE-001/06:19:28.000
End	JEE-CDS 1769:71:0	96-250/07:47:59.267	JEE-001/05:49:26.666
Duration	29:63:0	000/00:30:01.334	000/00:30:01.334

Top Label G2JNTHRMNS03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	168	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Part 3 of North-South stripes covering thermal wavelengths from 4.2786 to 5.2198 microns. Determine phosphine and other trace species abundances over latitude.

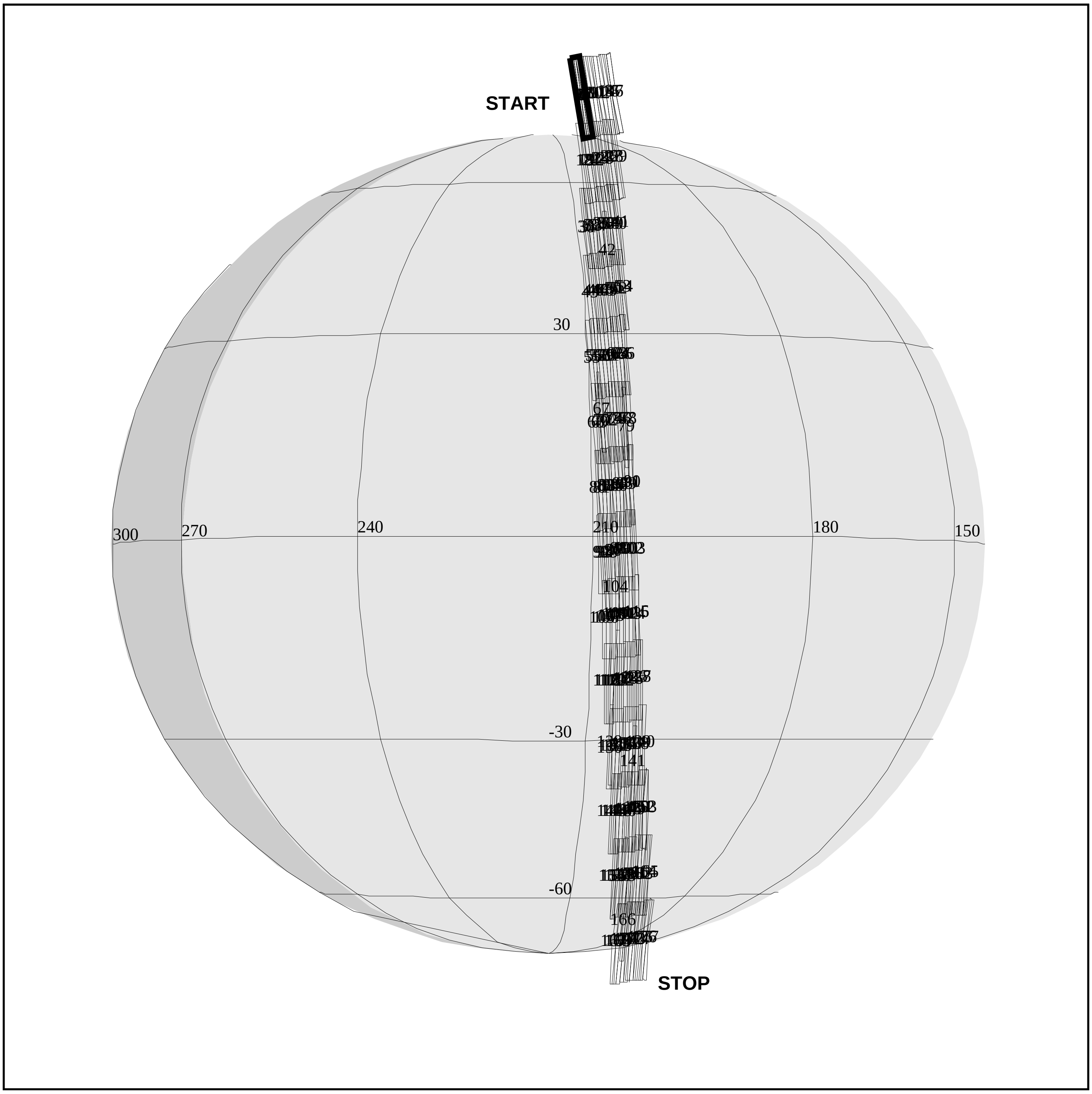
Data Returned - 3 swaths out of 13.

Design Detail

Follows description in OPG, page A-20, North-South stripe follows classic Z-pattern, each stripe being ~5 degrees wide in longitude. NIMS long map spatially-contiguous spectra. Data acquired in 1/5 NIMS record mode. Uses J5M80A playback table. Observation occurs near 19.6 RJ. About 13 tiers cover the planet. Design similar to previous THRMNS OAPEL. 2.91 MB collected, 1.45 MBTG, 0.0485 tracks. 4 minutes for targetting, 24 minutes, 3 secs for observing (plus 57 secs extra).

Long Map (LM), Gain 2, Grating Start 0, LPU, G2J5M253A, G2J5M80A

Galileo Activity Plan Form 06/17/96 12:41:02 rev 6/95



165DL:TT= 0 TMC= 1 C= 0.00 XC= 7.00 BS=70/6866 TC= 1(70 201)
A= 728 pD= 0 SR=17.430 RA50=250.25 DEC50=-20.10 cone=153.41 clock= 96.64
117DL:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS=70/6866
1:#s= 14 Cs= -3.50 XCs= 0.00 Cr= 5.20 XCr= -8.00 sD= 282 rD= 40

G2JNTHRMNS04

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNTHRMNS04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:JEE 96-251/13:37:25.933 -CDS 1629:27:0

OBSERVATION:G2JNTHRMNS04

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800

DESCRIP:JUPITER THERMAL NS STRIPES 04

JUPITER THERMAL NORTH-SOUTH STRIPES PRT4 ACTIVITY ID: G2JNTHRMNS04-
START TIME: 96-250/10:05:57.933

Activity ID: Orbit G2 Target J Inst N OAPEL THRMNS SeqNo 04 -

Title	JUPITER THERMAL NORTH-SOUTH STRIPES PRT4	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System	CDS	Load ID G2A	Calendar Date 09/06/96	Week	36

Start	JEE-CDS 1633:29:0	96-250/10:05:57.933	JEE-001/03:31:28.000
End	JEE-CDS 1603:57:0	96-250/10:35:59.267	JEE-001/03:01:26.666
Duration	29:63:0	000/00:30:01.334	000/00:30:01.334

Top Label G2JNTHRMNS04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	168	Report Options	BOTH	Scan Platform	No
CDS Source	PA	Spin State	ALL	DMS	No

Observation Objective

Part 4 of North-South stripes covering thermal wavelengths from 4.2786 to 5.2198 microns. Determine phosphine and other trace species abundances over latitude.

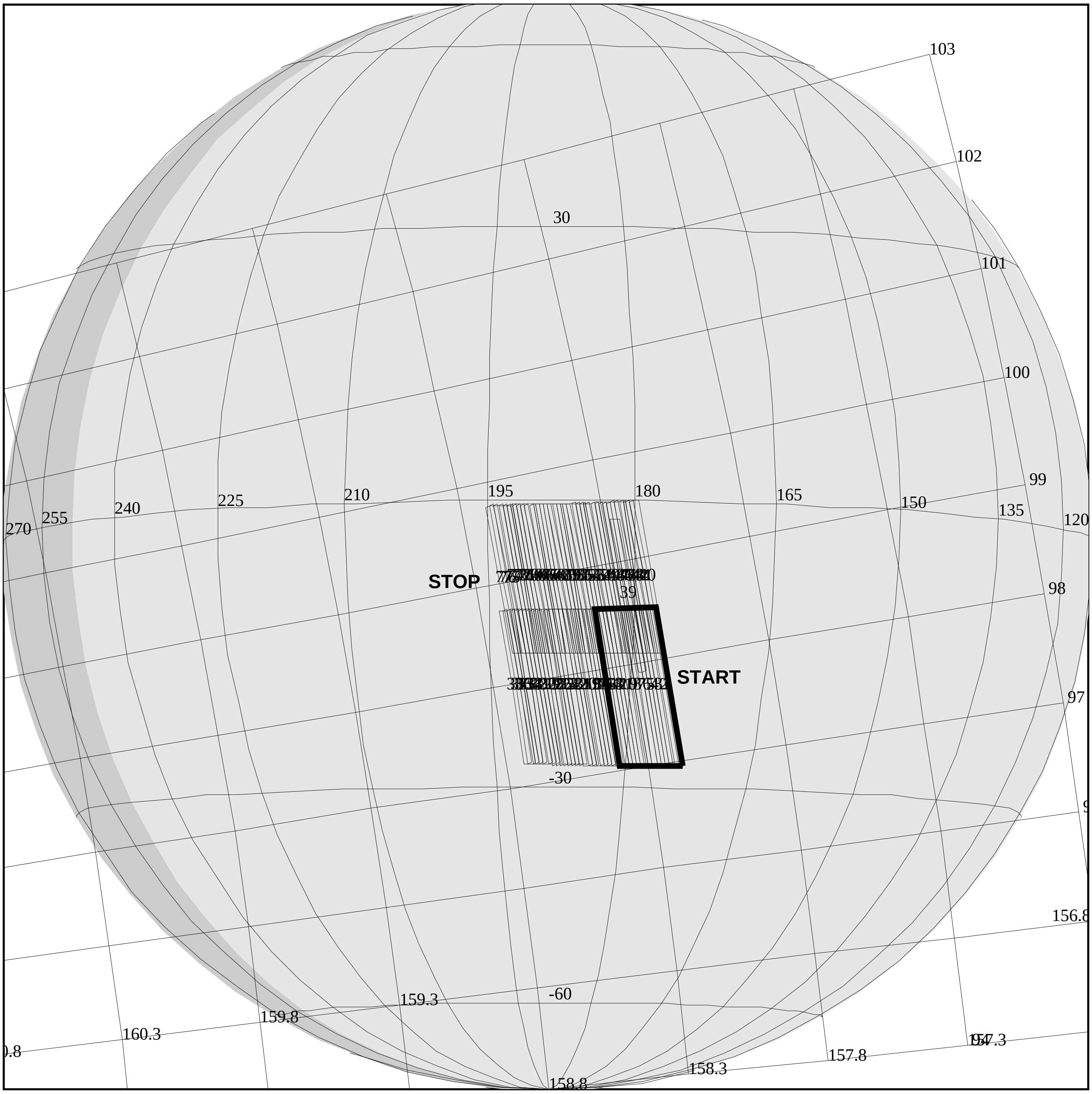
Data Returned - 1/3 swath out of 14 swaths - off-planet.

Design Detail

Follows description in OPG, page A-20, North-South stripe follows classic Z-pattern, each stripe being ~5 degrees wide in longitude. NIMS long map spatially-contiguous spectra. Data acquired in 1/5 NIMS record mode. Uses J5M80A playback table. Observation occurs near 18.4 RJ. About 14 tiers cover the planet. Total N/S stripe takes 14*111 = 1554 secs = 25 minutes, 54 secs. 4 minutes reserved for targetting, plus 6 seconds of extra time available.
Data accumulated: (1554)[(80)(200)/8.666 + 168]=3.130 MB, 1.565 MBTG.
Tape used: 1554*0.00003363=0.05226 tracks.

Long Map (LM), Gain 2, Grating Start 0, LPU, G2J5M253A, G2J5M80A

Galileo Activity Plan Form 06/17/96 12:41:02 rev 6/95



165ES:TT= 0 TMC= 1 C= -5.70 XC= -10.00 BS= 0/1840 TC= 3
A= 548 pD= 0 SR=17.450 RA50=255.26 DEC50=-20.94 cone=158.16 clock= 97.73
117ES:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1840
1:#s= 2 Cs= 9.78 XCs= 0.00 Cr= -9.78 XCr= 5.50 sD= 982 rD= 32

G2GNSIPPAR01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2GNSIPPAR01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GTE 96-250/19:00:09.333 -CDS 168:00:0

OBSERVATION:G2GNSIPPAR01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000

DESCRIP:Ganymede Region Map

Ganymede Regional Map of Sippar	ACTIVITY ID:	G2GNSIPPAR01-
	START TIME:	96-250/16:07:15.333

Activity ID: Orbit G2 Target G Inst N OAPEL SIPPAR SeqNo 01 -

Title	Ganymede Regional Map of Sippar			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2A	Calendar Date	09/06/96	Week	36

Start	GTE-CDS 171:00:0	96-250/16:07:15.333	GTE-000/02:52:54.000
End	GTE-CDS 157:00:0	96-250/16:21:24.667	GTE-000/02:38:44.666
Duration	14:00:0	000/00:14:09.334	000/00:14:09.334

Top Label	G2GNSIPPAR01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

The objective is to study the distribution of compositional elements in a regional context on the surface of Ganymede at high spatial and spectral resolutions.

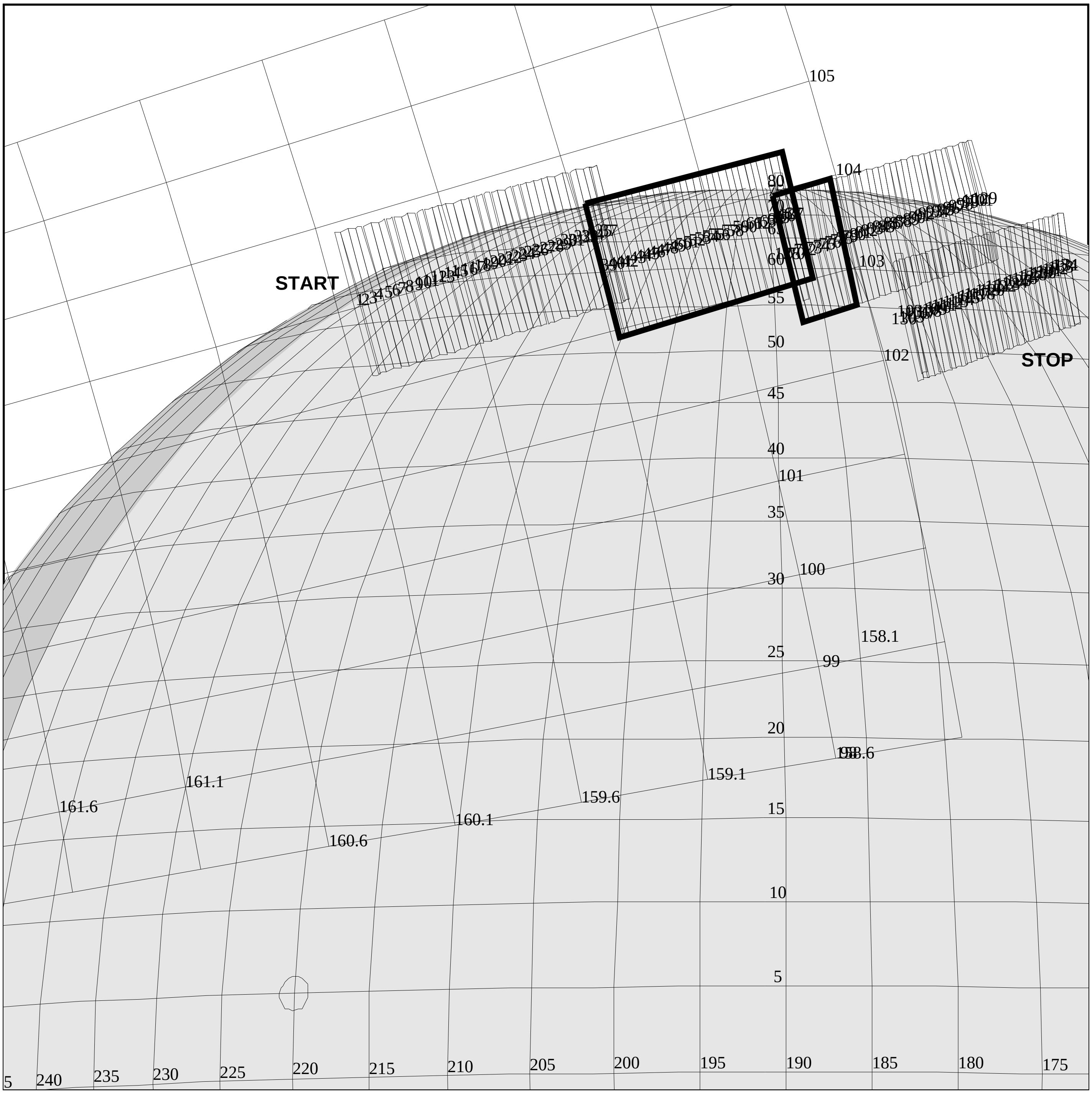
Data Returned - 2 Rims out of 20.

Design Detail

2 swaths across the middle of the satellite. Each swath is 10 RIMS long.
Slew rate is 0.03 mrad/sec.
Long Map
Gain state 2
Record LPU Format
G2LM204

Long Map (LM), Gain 2, Grating Start 0, LPU, G2GLM245, G2GLM204

Galileo Activity Plan Form 06/17/96 12:41:02 rev 6/95



165DN:TT= 0 TMC= 1 C= 15.00 XC= 0.00 BS= 6/5854 TC= 1(65 220)
A= 182 pD= 3792 SR=17.430 RA50=257.87 DEC50=-19.36 cone=160.02 clock=104.04
117DN:#SB= 4 OR= 0.060 RR= 4.000 BM=F RC= 1 BS= 6/5854
1:#s= 1 Cs= -18.00 XCs= 0.00 Cr= 0.00 XCr= -2.00 sD= 932 rD= 2
2:#s= 1 Cs= -15.00 XCs= 0.00 Cr= 1.00 XCr= -2.50 sD= 768 rD= 30
3:#s= 1 Cs= -17.00 XCs= 0.00 Cr= 1.00 XCr= -3.00 sD= 868 rD= 30
4:#s= 1 Cs= -16.00 XCs= 0.00 Cr= 8.00 XCr= -8.00 sD= 828 rD= 30

G2GNNRPOLE01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2GNNRPOLE01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GTE 96-250/19:00:09.333 -CDS 91:00:0

OBSERVATION:G2GNNRPOLE01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 3792 S= 1.700

DESCRIP:North Pole Region

North Pole Region Map — ACTIVITY ID: G2GNNRPOLE01-
START TIME: 96-250/17:27:06.667

Activity ID: Orbit G2 Target G Inst N OAPEL NRPOLE SeqNo 01 -

Title	North Pole Region Map			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 31224	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2A	Calendar Date	09/06/96	Week	36

Start	GTE-CDS 92:02:0	96-250/17:27:06.667	GTE-000/01:33:02.666
End	GTE-CDS 71:76:0	96-250/17:47:31.333	GTE-000/01:12:38.000
Duration	20:17:0	000/00:20:24.666	000/00:20:24.666

Top Label G2GNNRPOLE01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	175	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

This observation has three objectives. The first is to look for non-water volatiles. The second is to help complete the gloabl mapping. The third is to study the nature and extent of the polar shroud.

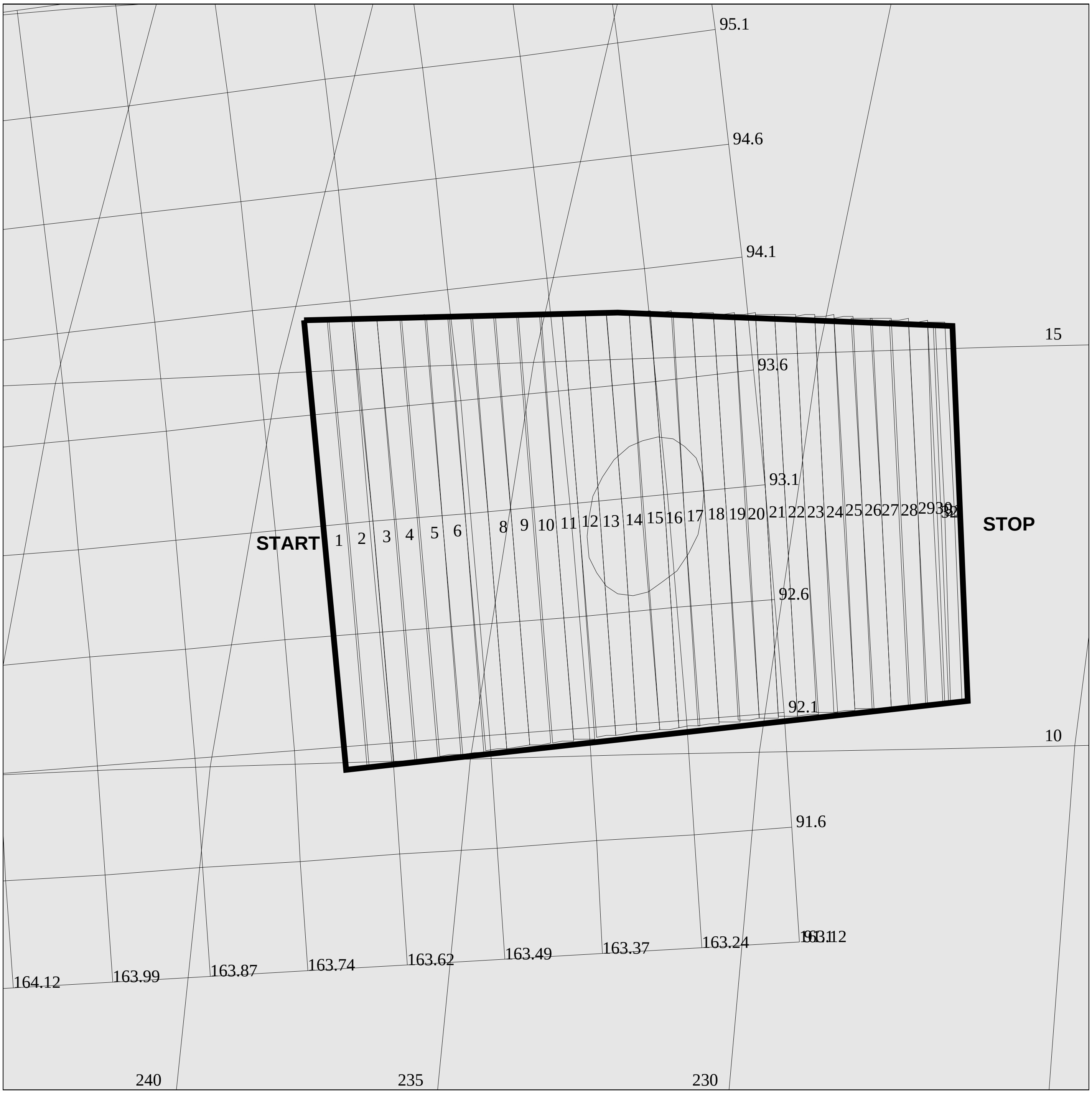
1/3 Data Returned

Design Detail

Three swaths covering as much as possible above 60 N. Latitude, from longitude 220 to 130 degrees. Slew rate is 0.06 mrad/sec.
Full Map
Gain state 3
Record format = MPW
Number of Wavelengths returned = 204
Track usage = 0.159

Full Map (FM), Gain 3, Grating Start 0, MPW, G2GFM221, G2GFM204

Galileo Activity Plan Form 06/17/96 12:41:02 rev 6/95



165DM:TT= 0 TMC= 1 C= 7.00 XC= 0.00 BS= 0/1678 TC= 1(13 232.5)
A= 728 pD= 1638 SR=17.450 RA50=260.74 DEC50=-23.60 cone=163.67 clock= 92.98
117DM:#SB= 1 OR= 0.030 RR= 0.010 BM=F RC= 1 BS= 0/1678
1:#s= 1 Cs= -15.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1638 rD= 2

G2GNTAMMUZ01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2GNTAMMUZ01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GTE 96-250/19:00:09.333 -CDS 59:00:0

OBSERVATION:G2GNTAMMUZ01

THINNING:NIM 2

BODY PLOT TIME:START-TIME D= 1638 S= 8.000

DESCRIP:BRIGHT RAYED CRATER TAMMUZ

Bright rayed crater TAMMUZ		ACTIVITY ID:	G2GNTAMMUZ01-
		START TIME:	96-250/17:56:22.000

Activity ID: Orbit G2 Target G Inst N OAPEL TAMMUZ SeqNo 01 -

Title	Bright rayed crater TAMMUZ			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 31224	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2A	Calendar Date	09/06/96	Week	36

Start	GTE-CDS 63:08:0	96-250/17:56:22.000	GTE-000/01:03:47.333
End	GTE-CDS 49:74:0	96-250/18:09:47.333	GTE-000/00:50:22.000
Duration	13:25:0	000/00:13:25.333	000/00:13:25.333

Top Label	G2GNTAMMUZ01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	178	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

This observation is to study a bright rayed crater, Tammuz, for mineralogy across a contrast boundary, to study the nature of excavated ices and potential cold trapping of irradiation products on the trailing hemisphere.

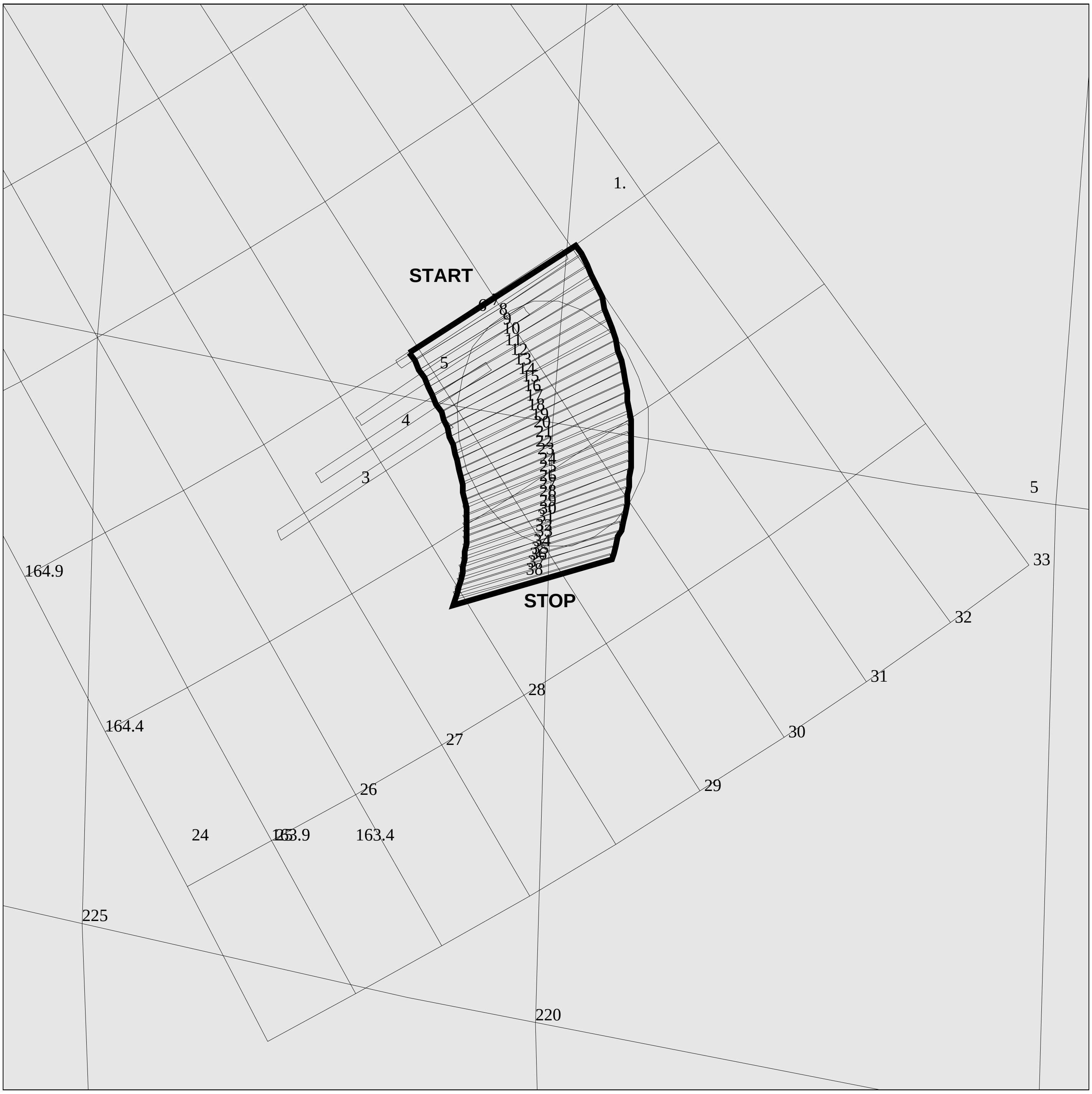
Data Returned

Design Detail

Target to crater at lat=13 and lon=233, then offset and slew across the crater, covering two crater diameters on either side of the crater.
Once slew at 0.03mrad/sec.
Long Map
Gain State 2
Record format = LPU
Number of Wavelengths returned = 204
Track usage = 0.018

Long Map (LM), Gain 2, Grating Start 0, LPU, G2GLM245, G2GLM204

Galileo Activity Plan Form   06/17/96 12:41:02   rev 6/95



165DO:TT= 0 TMC= 1 C= 7.00 XC= 1.00 BS=71/8594 TC= 1(5 220)
A= 226 pD= 858 SR=17.450 RA50=269.61 DEC50=-38.04 cone=164.89 clock= 29.98
117DO:#SB= 1 OR= 0.060 RR= 0.010 BM=F RC= 1 BS=71/8594
1:#s= 1 Cs= -17.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 858 rD= 2

G2GNANTUM_01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2GNANTUM_01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GTE 96-250/19:00:09.333 -CDS 21:00:0

OBSERVATION:G2GNANTUM_01

THINNING:NIM 2

BODY PLOT TIME:START-TIME D= 858 S= 10.000

DESCRIP:DARK RAYED CRATER ANTUM

Dark Rayed crater Antum		ACTIVITY ID:	G2GNANTUM 01-
		START TIME:	96-250/18:38:22.000

Activity ID: Orbit G2 Target G Inst N OAPEL ANTUM SeqNo 01 -

Title	Dark Rayed crater Antum			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 31224	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2A Calendar Date 09/06/96 Week 36

Start	GTE-CDS 21:50:0	96-250/18:38:22.000	GTE-000/00:21:47.333
End	GTE-CDS 15:51:0	96-250/18:44:25.333	GTE-000/00:15:44.000
Duration	5:90:0	000/00:06:03.333	000/00:06:03.333

Top Label G2GNANTUM 01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	175	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

This observation is to study the modification process of material in impacts, to study the mineralogy of impactors and to study the modification of the area adjacent to large Sulcus.

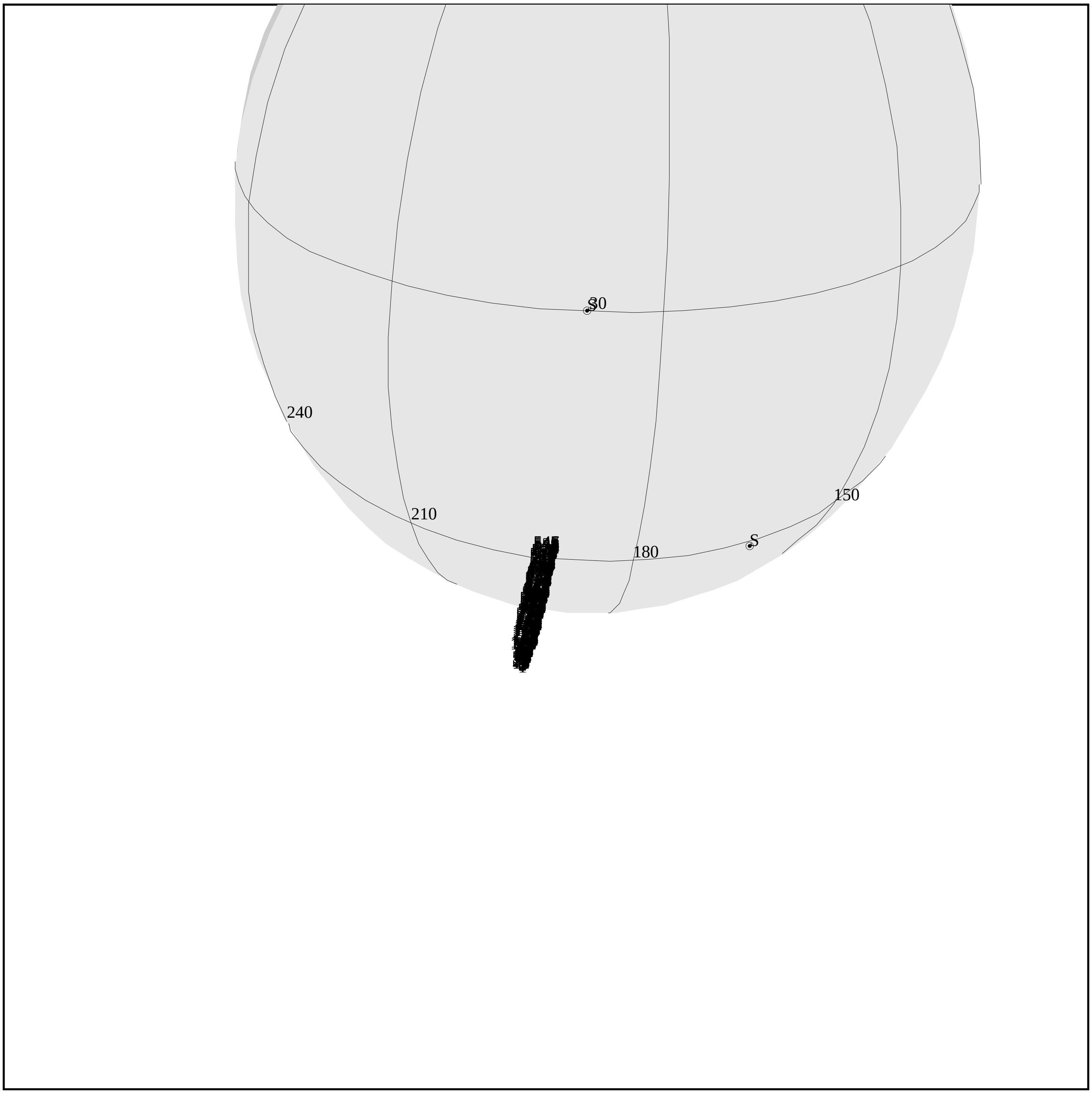
Data Returned

Design Detail

One swath across the crater, Antum, at lat=10 and lon=220 at slew rate of 0.06 mrad/sec.
Full Map
Gain State 2
Record format = MPW
Number of Wavelengths returned = 204
Track usage = 0.038

Full Map (FM), Gain 2, Grating Start 0, MPW, G2GFM221, G2GFM204

Galileo Activity Plan Form 06/17/96 12:41:03 rev 6/95



165CL:TT= 0 TMC= 1 C= -490.44 XC= -218.79 BS= 0/0232 TC= 9
A= 146 pD= 0 SR=17.450 RA50=265.27 DEC50=-80.33 cone=124.38 clock= 4.48

G2GNLIMBSC01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2GUBRTLMB02

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 1**

START:GTE 96-250/19:00:09.333 -CDS 12:00:0 **BODY PLOT TIME:96-250/18:50:59.942 D= 0 S= 0.500**

OBSERVATION:G2GUBRTLMB02 **DESCRIP:UVS G2 OH Bright Limb**

Limb Scan for atmosphere	ACTIVITY ID: G2GNLIMBSC01+ START TIME: 96-250/18:47:00.667

Activity ID: Orbit G2 Target G Inst N OAPEL LIMBSC SeqNo 01 +

Title	Limb Scan for atmosphere			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 3-1224	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2A Calendar Date 09/06/96 Week 36

Start	GTE-CDS 13:00:0	96-250/18:47:00.667	GTE-000/00:13:08.666
End	GTE-CDS 9:00:0	96-250/18:51:03.333	GTE-000/00:09:06.000
Duration	4:00:0	000/00:04:02.666	000/00:04:02.666

Top Label G2GNLIMBSC01+
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	102	Report Options	BOTH	Scan Platform	No
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

Limbscan of Ganymede To search for an atmosphere.

Data Returned

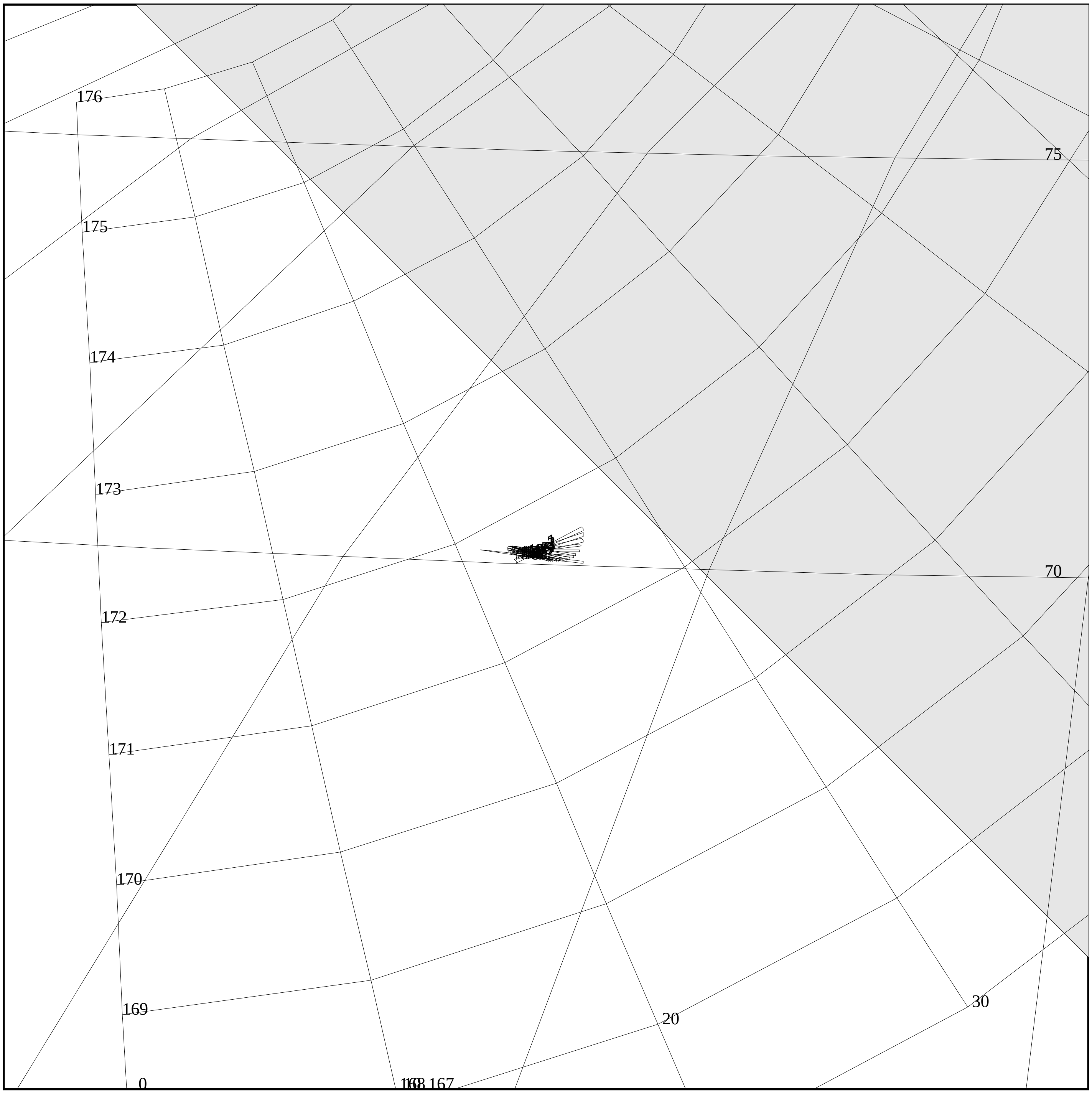
Design Detail

Alias: G2GUBRTRLMB01

Target to the satellite and offset to sky and drift onto satellite.
Joint observation with UVS.
Return Grating position 1 with detector 3,4 and 5.
Mode: XS (Fixed Spectrometer); Gain: 4
Grating start position: 1 Grating offset: 4
3 wavelengths recorded Record format: MPW
Track usage: 0.02

Fixed Spectrometer (XS), Gain 4, Grating Start 1, MPW, G2GXS17, G2GXS003

Galileo Activity Plan Form 06/17/96 12:41:03 rev 6/95



165DQ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1506 TC= 1(70.2 192.3)
A= 286 pD= 482 SR=17.450 RA50=274.79 DEC50=-32.62 cone=171.68 clock= 24.55
117DQ:#SB= 1 OR= 0.060 RR= 0.010 BM=F RC= 1 BS= 0/1506
1:#s= 1 Cs= -9.55 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 482 rD= 2

G2GNBRFRGR01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2GNBRFRGR01

TARGET BODY : GANYMEDE

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:GTE 96-250/19:00:09.333 -CDS 05:00:0

BODY PLOT TIME:START-TIME D= 482 S= 10.000

OBSERVATION:G2GNBRFRGR01

DESCRIP:Bright/Frost endmember trail hem

Bright Frost and Groove Terrain	ACTIVITY ID: G2GNBRFRGR01- START TIME: 96-250/18:53:08.000

Activity ID: Orbit G2 Target G Inst N OAPEL BRFRGR SeqNo 01 -

Title	Bright Frost and Groove Terrain			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI 31224	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2A	Calendar Date	09/06/96	Week	36

Start	GTE-CDS 6:86:0	96-250/18:53:08.000	GTE-000/00:07:01.333
End	GTE-CDS 1:00:0	96-250/18:59:08.667	GTE-000/00:01:00.666
Duration	5:86:0	000/00:06:00.667	000/00:06:00.667

Top Label G2GNBRFRGR01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	175	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

This observation will be used for identification of potential exotic ices in the polar shroud. It will also help to constrain grain size and thickness of the shroud contributing to age, origin and evolution.

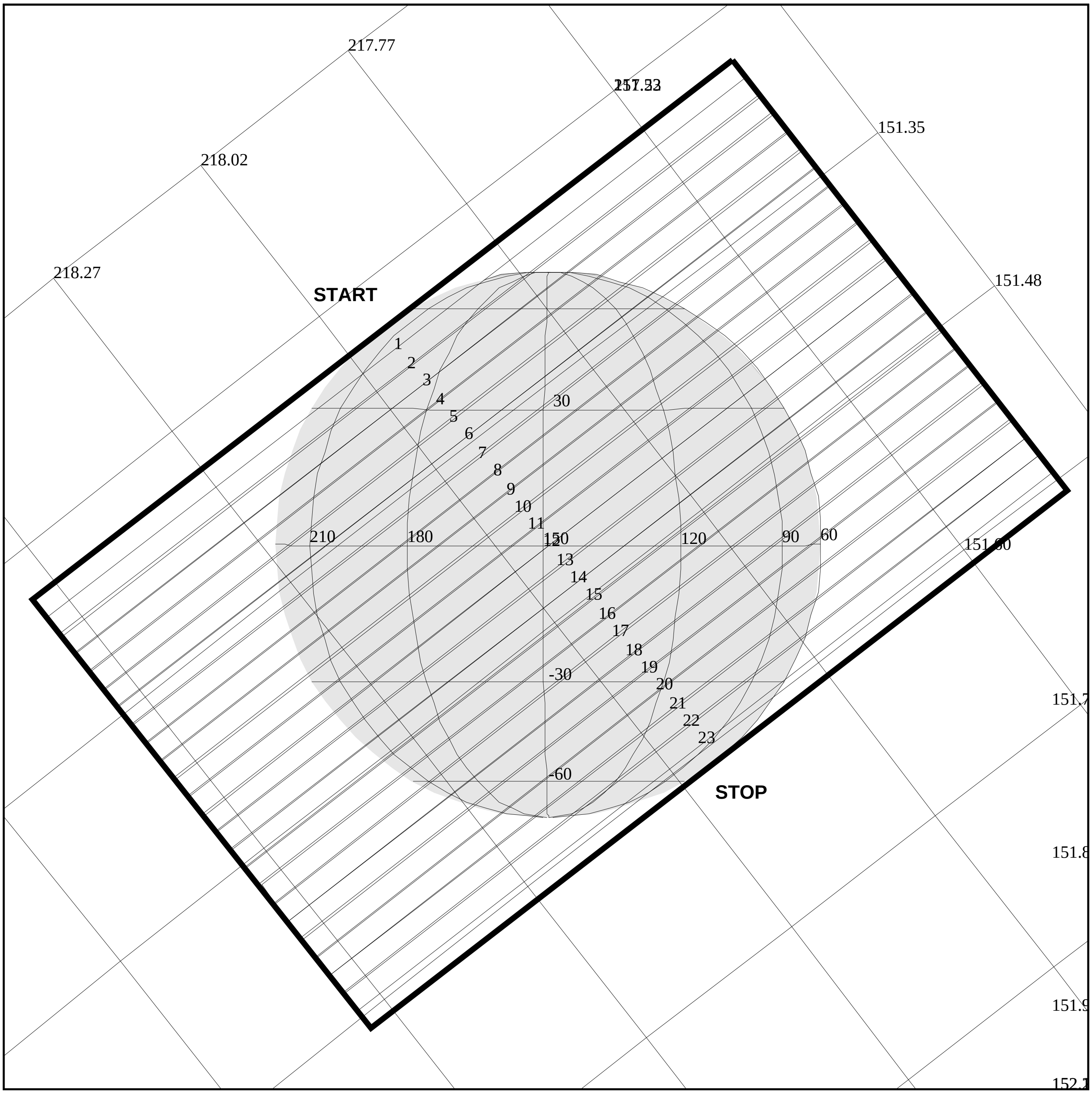
Data Returned

Design Detail

One swath across the interested area, latitude from 73 to 77 degrees and longitude 225 to 215. Slew rate is 0.06 mrad/sec.
CSMOS should start at GTE-CDS -6:00:0 with zero blockshift
Full Map
Gain State 3
Record format = MPW
Number of Wavelengths returned = 204
Track usage = 0.019

Full Map (FM), Gain 3, Grating Start 0, MPW, G2GFM221, G2GFM204

Galileo Activity Plan Form 06/17/96 12:41:03 rev 6/95



165DR:TT= 0 TMC= 1 C= -2.95 XC= 0.00 BS= 0/3912 TC= 3
A= 546 pD= 0 SR=17.430 RA50=294.71 DEC50=-23.42 cone=151.27 clock=217.97
117DR:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3912
1:#s= 1 Cs= 5.92 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 596 rD= 2

G2INCHEMIS01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INCHEMIS01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:GSE 96-250/21:11:36.000 +CDS 98:00:0

OBSERVATION:G2INCHEMIS01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

DESCRIP:DAYSIDE MONITORING OF IO

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: G2INCHEMIS01-
	START TIME: 96-250/22:46:38.666

Activity ID: Orbit G2 Target I Inst N OAPEL CHEMIS SeqNo 01 -

Title	MONITORING OF IO'S DAYSIDE			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2A	Calendar Date	09/06/96	Week	36

Start	GSE+CDS 94:00:0	96-250/22:46:38.666	GSE+000/01:35:02.666
End	GSE+CDS 101:25:0	96-250/22:54:00.000	GSE+000/01:42:24.000
Duration	7:25:0	000/00:07:21.334	000/00:07:21.334

Top Label	G2INCHEMIS01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	178	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

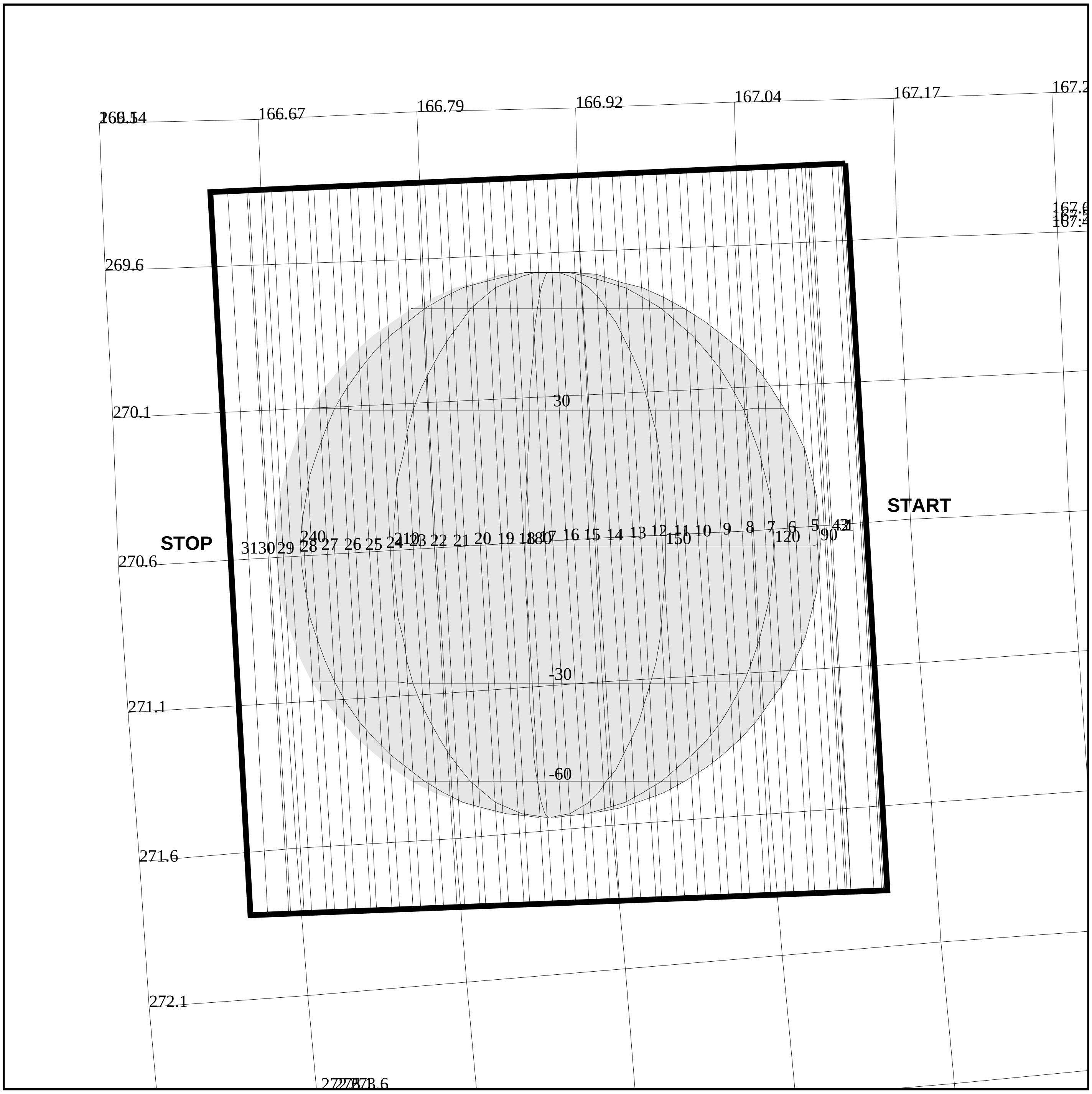
Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits.
High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.
CSMOS should start at IEE-CDS 392:00:0 with zero blockshift
Long Map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, MPW, G2ILM245, G2ILM228

Galileo Activity Plan Form 06/17/96 12:41:03 rev 6/95



165DT:TT= 0 TMC= 1 C= 4.00 XC= 0.00 BS=43/5580 TC= 3
A= 546 pD= 0 SR=17.430 RA50=292.74 DEC50=-24.07 cone=167.11 clock=270.61
117DT:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=43/5580
1:#s= 1 Cs= -7.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 728 rD= 2

G2INCHEMIS02

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INCHEMIS02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 1**

START:IEE 96-251/05:25:01.266 -03:38:00.000 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500**

OBSERVATION:G2INCHEMIS02 **DESCRIP:DAYSIDE MONITORING OF IO**

MONITORING OF IO'S DAYSIDE	ACTIVITY ID:	G2INCHEMIS02-
	START TIME:	96-251/01:43:58.600

Activity ID: Orbit G2 Target I Inst N OAPEL CHEMIS SeqNo 02 -

Title	MONITORING OF IO'S DAYSIDE			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2A Calendar Date 09/07/96 Week 36

Start	IEE-CDS 218:56:0	96-251/01:43:58.600	IEE-000/03:41:02.666
End	IEE-CDS 209:22:0	96-251/01:53:27.266	IEE-000/03:31:34.000
Duration	9:34:0	000/00:09:28.666	000/00:09:28.666

Top Label G2INCHEMIS02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

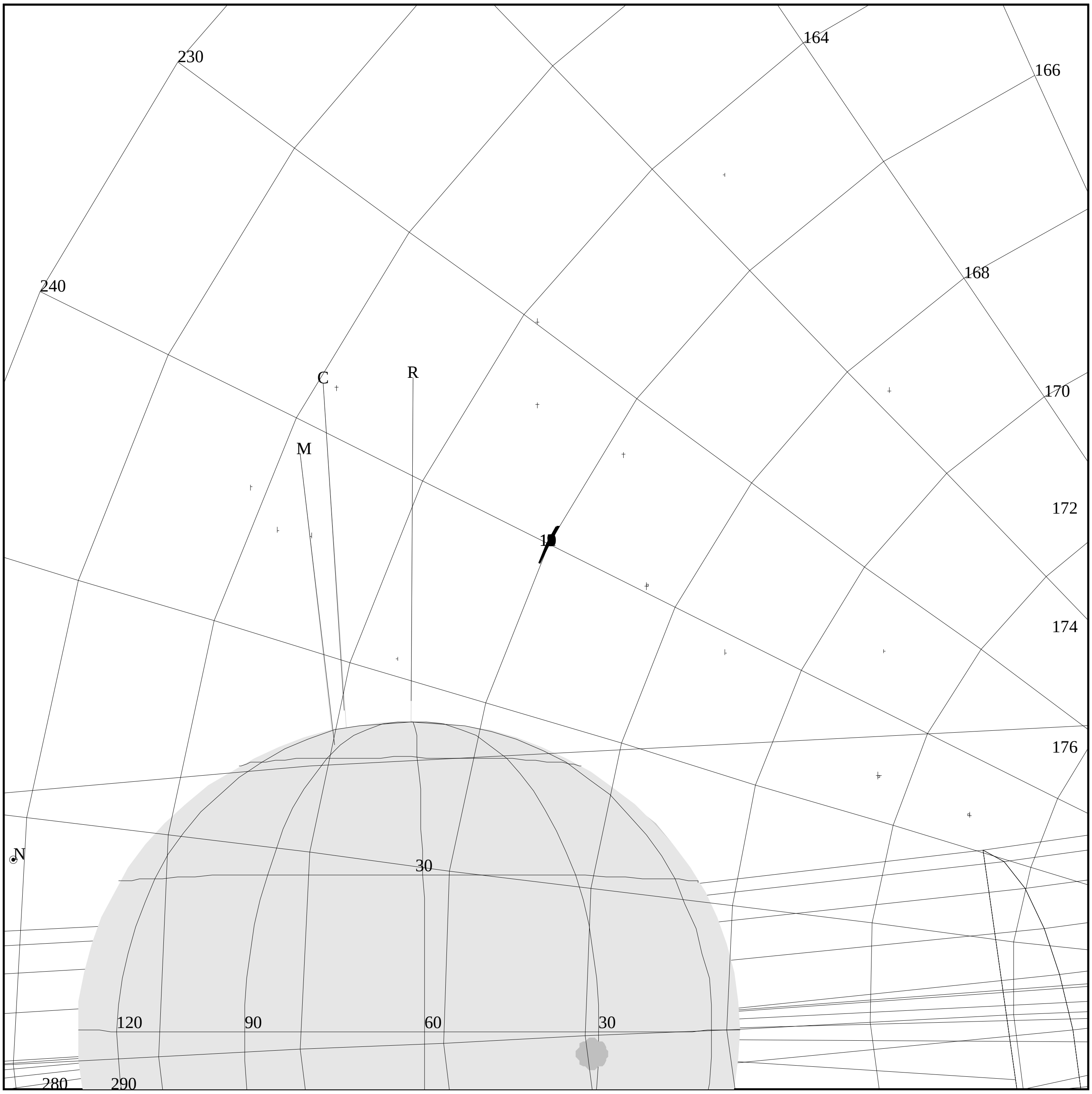
Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits.
High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.
CSMOS should start at IEE-CDS 392:00:0 with zero blockshift
Long Map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILM245, G2ILM228

Galileo Activity Plan Form 06/17/96 12:41:03 rev 6/95



165DS:TT=   0 TMC= 1 C=   0.00 XC=   0.00 BS=52/7774 TC= 2(166   240   )
A= 718 pD=   0 SR=17.430 RA50=291.03 DEC50=-17.13 cone=166.00 clock=240.00

G2HNDARK__03

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2HNDARK__03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM   1**

START:GEE 96-250/19:00:09.333   +CDS 469:00:0 **BODY PLOT TIME:TARGET-TIME D=   0 S= 0.600**

OBSERVATION:G2HNDARK__03 **DESCRIP:DARK SKY 03**

DARK SKY	ACTIVITY ID:	G2HNDARK 03-
	START TIME:	96-251/02:50:19.333

Activity ID: Orbit G2 Target H Inst N OAPEL DARK SeqNo 03 -

Title	DARK SKY			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2A	Calendar Date	09/07/96	Week	36

Start	GEE+CDS 465:00:0	96-251/02:50:19.333	GEE+000/07:50:10.000
End	GEE+CDS 472:00:0	96-251/02:57:23.999	GEE+000/07:57:14.666
Duration	7:00:0	000/00:07:04.666	000/00:07:04.666

Top Label	G2HNDARK 03-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	110	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Collect Dark Values for calibration purposes.

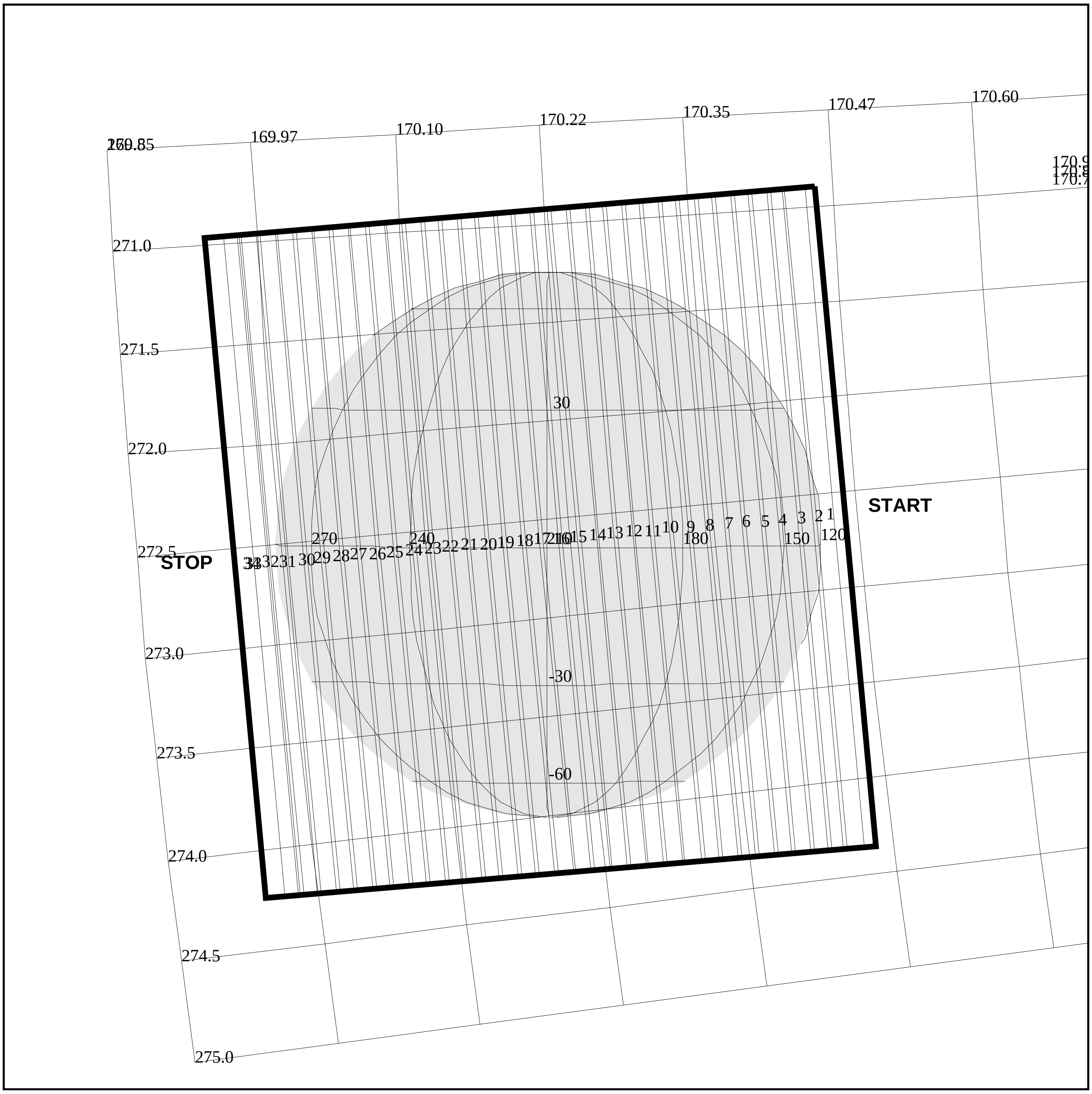
Data Returned

Design Detail

Slew to dark space and record 1 Rim of dark values.
Long Map
Gain State 2

Long Map (LM), Gain 3, Grating Start 0, MPW, G2DRK34, G2DRK34

Galileo Activity Plan Form 06/17/96 12:41:03 rev 6/95



165DV:TT= 0 TMC= 1 C= 4.25 XC= 0.00 BS=12/4710 TC= 3
A= 546 pD= 0 SR= 9.000 RA50=289.13 DEC50=-24.78 cone=170.44 clock=272.67
117DV:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=12/4710
1:#s= 1 Cs= -8.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 848 rD= 2

G2INHRSPEC01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INHRSPEC01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 -00:01:00.000

OBSERVATION:G2INHRSPEC01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

DESCRIP:HIGH SPATIAL/SPECTRAL OBS OF IO

HIGH SPAT. AND SPECT. OBS. OF IO		ACTIVITY ID:	G2INHRSPEC01-
		START TIME:	96-251/05:21:01.266

Activity ID: Orbit G2 Target I Inst N OAPEL HRSPEC SeqNo 01 -

Title	HIGH SPAT. AND SPECT. OBS. OF IO			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2A	Calendar Date	09/07/96	Week	36

Start	IEE-CDS	3:87:0	96-251/05:21:01.266	IEE-000/00:04:00.000
End	IEE+CDS	6:72:0	96-251/05:31:53.266	IEE+000/00:06:52.000
Duration		10:68:0	000/00:10:52.000	000/00:10:52.000

Top Label   G2INHRSPEC01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	144	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Mapping observation of Io’s dayside at high spatial and spectral resolutions. Objective is to search for both known and yet unknown spectral features.

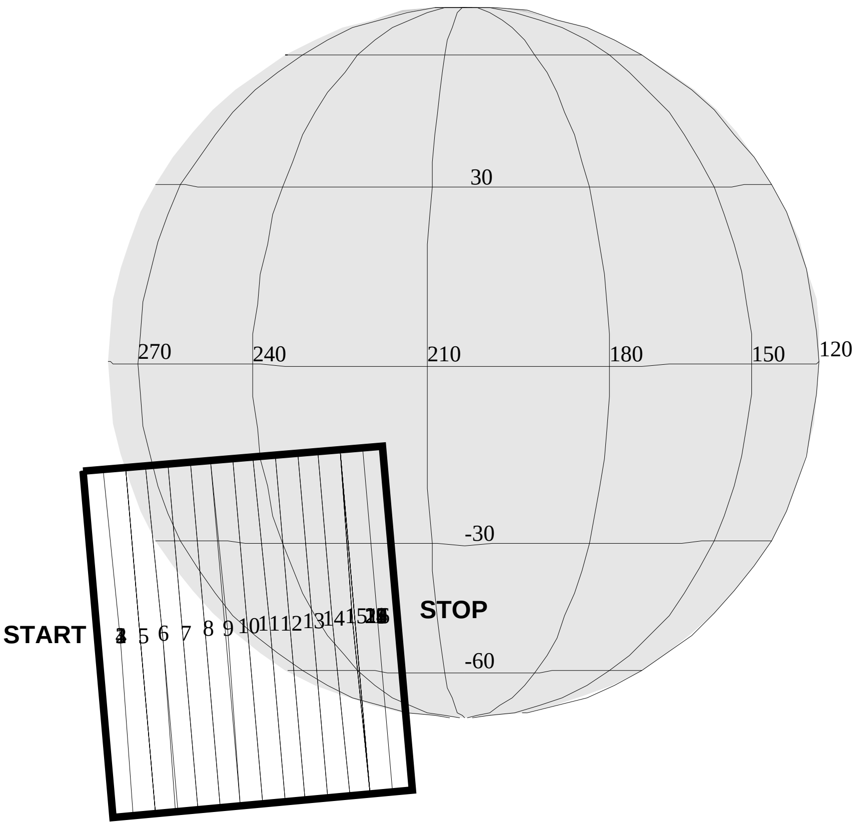
Data Returned

Design Detail

Global mosaic in Long Map (408 wavelengths).

Long Map (LM), Gain 2, Grating Start 0, MPW, G2ILM442, G2ILM408

Galileo Activity Plan Form   06/17/96 12:41:03   rev 6/95



165FA:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/7976 TC= 3
A= 728 pD= 0 SR=17.430 RA50=290.04 DEC50=-24.67 cone=169.62 clock=272.39
117FA:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/7976
1:#s= 1 Cs= 3.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 24 rD= 2

G2INIOMON_01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INIOMON_01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 -CDS 38:00:0

OBSERVATION:G2INIOMON_01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

DESCRIP:G2INIOMON_01

Io Monitoring in Real Time — ACTIVITY ID: G2INIOMON 01-
START TIME: 96-251/08:02:45.266

Activity ID: Orbit G2 Target I Inst N OAPEL IOMON SeqNo 01 -

Title	Io Monitoring in Real Time	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES Team NIMS	Working Group	SWG

Time System CDS Load ID G2A Calendar Date 09/07/96 Week 36

Start	IEE+CDS 156:00:0	96-251/08:02:45.266	IEE+000/02:37:44.000
End	IEE+CDS 163:00:0	96-251/08:09:49.932	IEE+000/02:44:48.666
Duration	7:00:0	000/00:07:04.666	000/00:07:04.666

Top Label G2INIOMON 01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	184	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

Real time observation of Io’s nightside to map hot spots and look for thermal changes on the surface.

Data Returned

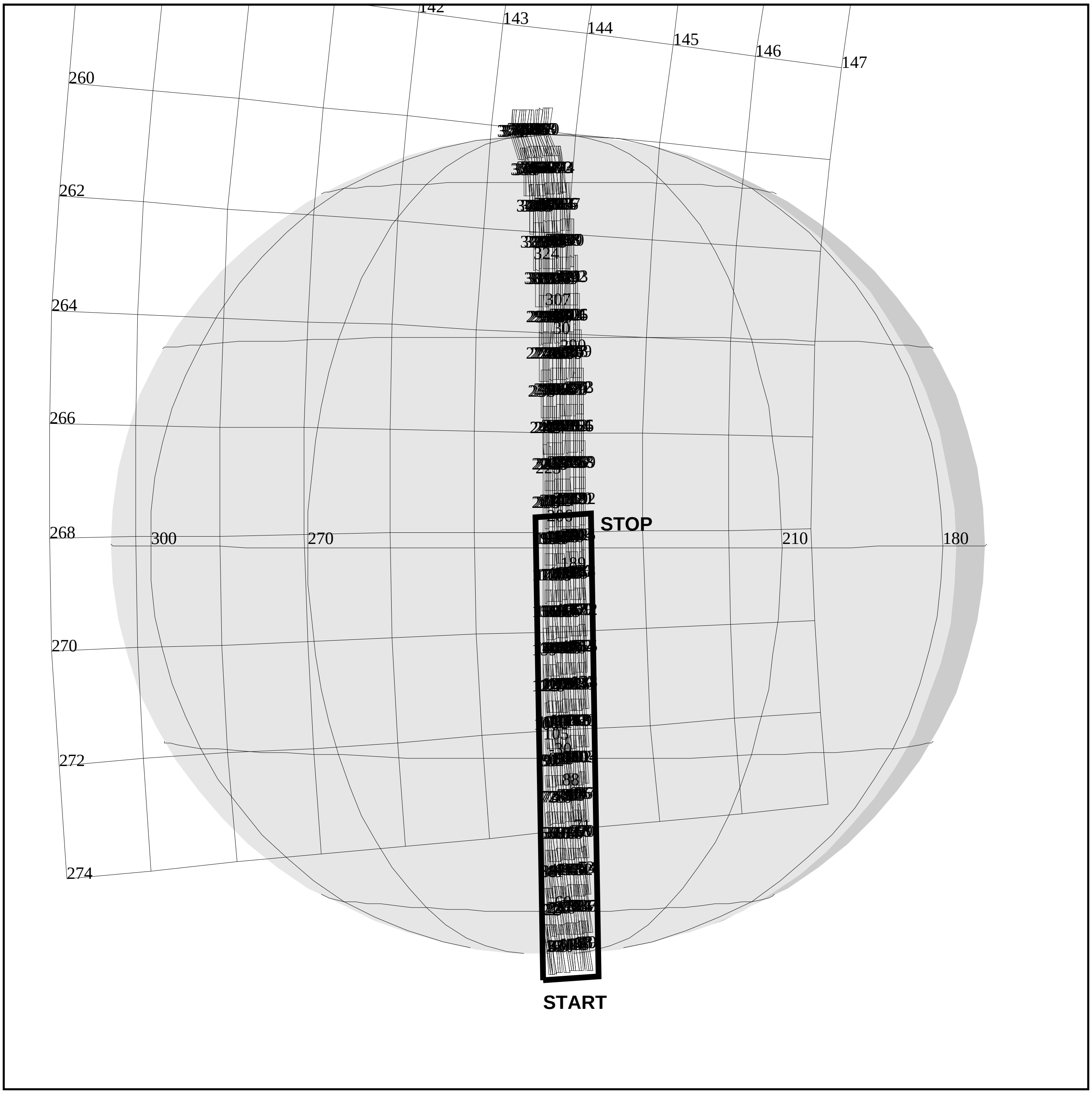
Design Detail

Observation duration: 12 minor frames. These 12 minor frames must be the first 12 of a Rim. NIMS mirror scan cut from 20 to 8. Fixed map, 8 wavelengths. MBTG = 0.017 R/T = 3.5 % MUB. Offset target center by 2 mrad in cone, either direction. 8 mirror positions will get 23 fields of view, use double Nyquist. Design the observation to bias toward the bottom of the scan, i.e., cover the satellite with the bottom mirrors accounting for pointing uncertainty. Plot all 20 mirror positions.

Mirror Blocked (1C,07) (11100,00111)

Fixed Map (XM), Gain 2, Grating Start 21, R/T, G2IXM8RT

Galileo Activity Plan Form 06/17/96 12:41:04 rev 6/95



165DW:TT= 0 TMC= 1 C= 0.00 XC= 9.00 BS=56/6924 TC= 1(-58.5 240)
A= 728 pD= 0 SR=17.430 RA50=318.45 DEC50=-22.48 cone=143.57 clock=276.31
117DW:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS=56/6924
1:#s= 23 Cs= 5.00 XCs= 0.00 Cr= -7.50 XCr= -8.00 sD= 398 rD= 40

G2JNTHRMNS07

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2JNTHRMNS07

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:JEE 96-251/13:37:25.933 -CDS 310:41:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800

OBSERVATION:G2JNTHRMNS07

DESCRIP:JUPITER THERMAL NS STRIPES 07

JUPITER THERMAL NORTH-SOUTH STRIPES PRT7 ACTIVITY ID: G2JNTHRMNS07-
START TIME: 96-251/08:19:27.933

Activity ID: Orbit G2 Target J Inst N OAPEL THRMNS SeqNo 07 -

Title	JUPITER THERMAL NORTH-SOUTH STRIPES PRT7	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System CDS Load ID G2A Calendar Date 09/07/96 Week 36

Start	JEE-CDS 314:43:0	96-251/08:19:27.933	JEE-000/05:17:58.000
End	JEE-CDS 255:10:0	96-251/09:19:29.267	JEE-000/04:17:56.666
Duration	59:33:0	000/01:00:01.334	000/01:00:01.334

Top Label G2JNTHRMNS07-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	199	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Part 7 of North-South stripes covering thermal wavelengths from 4.2786 to 5.2198 microns. Determine phosphine and other trace species abundances over latitude. Highest spatial resolution observation, acquired near 11 RJ, samples 393 km/nimsel.

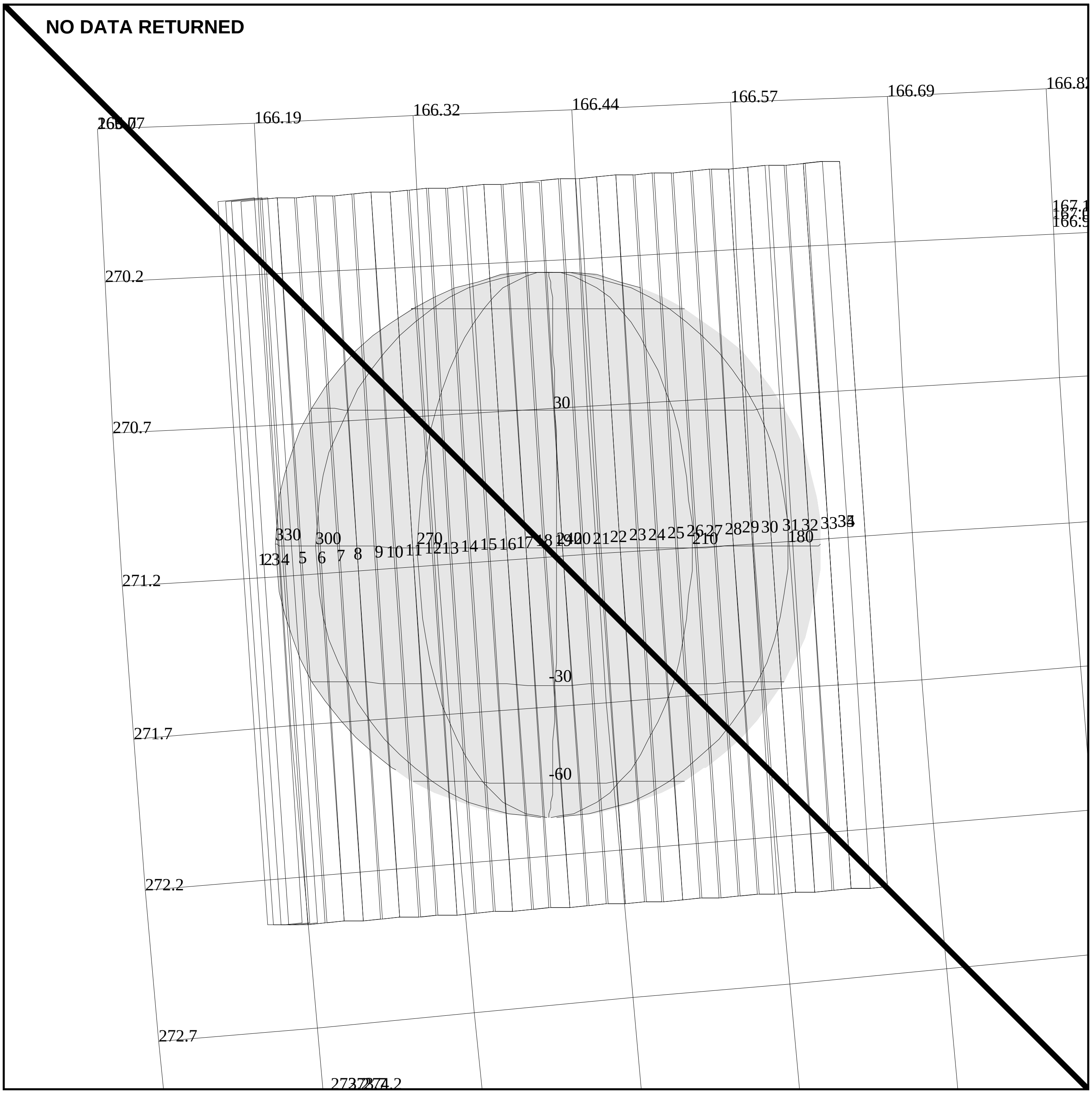
Processor Halted in Middle of Observation.
Data Returned

Design Detail

Follows description in OPG, page A-20, North-South stripe follows classic Z-pattern, each stripe being ~5 degrees wide in longitude. NIMS long map spatially-contiguous spectra. Data acquired in 1/5 NIMS record mode. Uses J5M80A playback table. Observation occurs near 11 RJ. 23 tiers cover the planet. Each tier of 15 samples takes 145 secs to acquire, including 15 seconds for repositioning. Total observation time is 23*145 = 3335 secs = 55 minutes, 35 seconds. 4 minutes targetting. Data accumulated: 3355*(80*200/8.666 + 168) = 6.757 MB, 3.379 MBTG. Tracks used: 3335*0.00003363 = 0.11216 tracks.

Long Map (LM), Gain 2, Grating Start 0, LPU, G2J5M253A, G2J5M80A

Galileo Activity Plan Form 06/17/96 12:41:04 rev 6/95



165DX:TT= 0 TMC= 1 C= -3.70 XC= 0.00 BS=44/0392 TC= 3
A= 546 pD= 972 SR=17.430 RA50=293.75 DEC50=-24.08 cone=166.20 clock=271.17
117DX:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=44/0392
1:#s= 1 Cs= 7.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 828 rD= 2

G2INCHEMIS03

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INCHEMIS03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 +04:13:00.000

OBSERVATION:G2INCHEMIS03

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 972 S= 0.500

DESCRIP:DAYSIDE MONITORING OF IO

MONITORING OF IO'S DAYSIDE	**ACTIVITY ID:** G2INCHEMIS03- **START TIME:** 96-251/09:34:59.932

Activity ID: Orbit G2 Target I Inst N OAPEL CHEMIS SeqNo 03 -

Title	MONITORING OF IO'S DAYSIDE			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS   Load ID G2A   Calendar Date 09/07/96   Week 36

Start	IEE+CDS 247:21:0	96-251/09:34:59.932	IEE+000/04:09:58.666
End	IEE+CDS 256:42:0	96-251/09:44:19.932	IEE+000/04:19:18.666
Duration	9:21:0	000/00:09:20.000	000/00:09:20.000

Top Label G2INCHEMIS03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

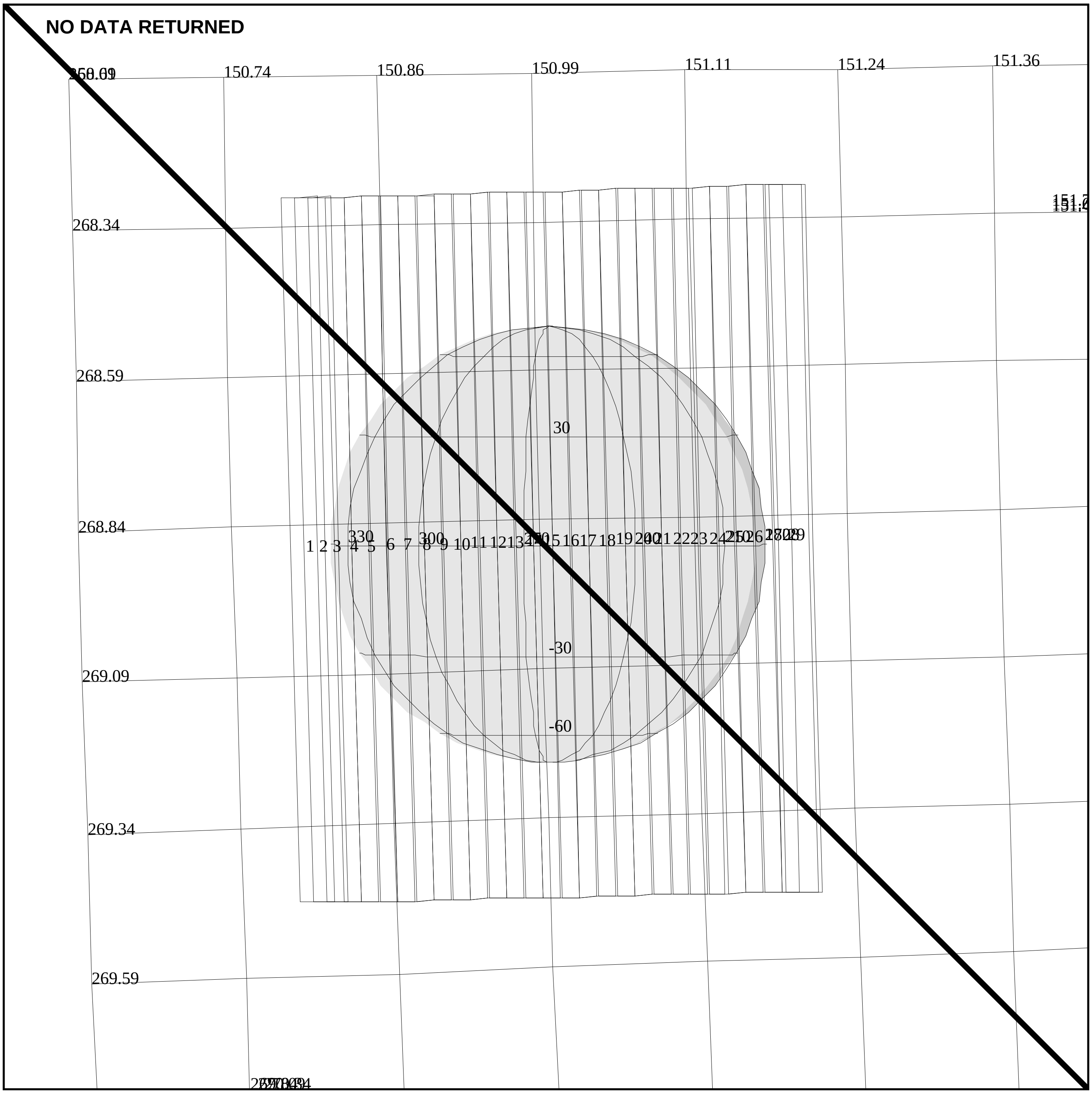
Processor Halted, No Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits.
High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.
CSMOS should start at IEE-CDS 392:00:0 with zero blockshift
Long Map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILM245, G2ILM102

Galileo Activity Plan Form   06/17/96 12:41:04   rev 6/95



165DZ:TT= 0 TMC= 1 C= -3.00 XC= 0.00 BS=35/8076 TC= 3
A= 546 pD= 846 SR=17.430 RA50=309.87 DEC50=-20.28 cone=150.82 clock=268.88
117DZ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=35/8076
1:#s= 1 Cs= 6.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 696 rD= 2

G2INCHEMIS04

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INCHEMIS04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-251/05:25:01.266 +08:37:58.000

BODY PLOT TIME:TARGET-TIME D= 846 S= 0.400

OBSERVATION:G2INCHEMIS04

DESCRIP:DAYSIDE MONITORING OF IO

MONITORING OF IO'S DAYSIDE ACTIVITY ID: G2INCHEMIS04-
START TIME: 96-251/13:59:57.932

Activity ID: Orbit G2 Target I Inst N OAPEL CHEMIS SeqNo 04 -

Title	MONITORING OF IO'S DAYSIDE			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2A Calendar Date 09/07/96 Week 36

Start	IEE+CDS 509:26:0	96-251/13:59:57.932	IEE+000/08:34:56.666
End	IEE+CDS 517:68:0	96-251/14:08:31.266	IEE+000/08:43:30.000
Duration	8:42:0	000/00:08:33.334	000/00:08:33.334

Top Label G2INCHEMIS04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

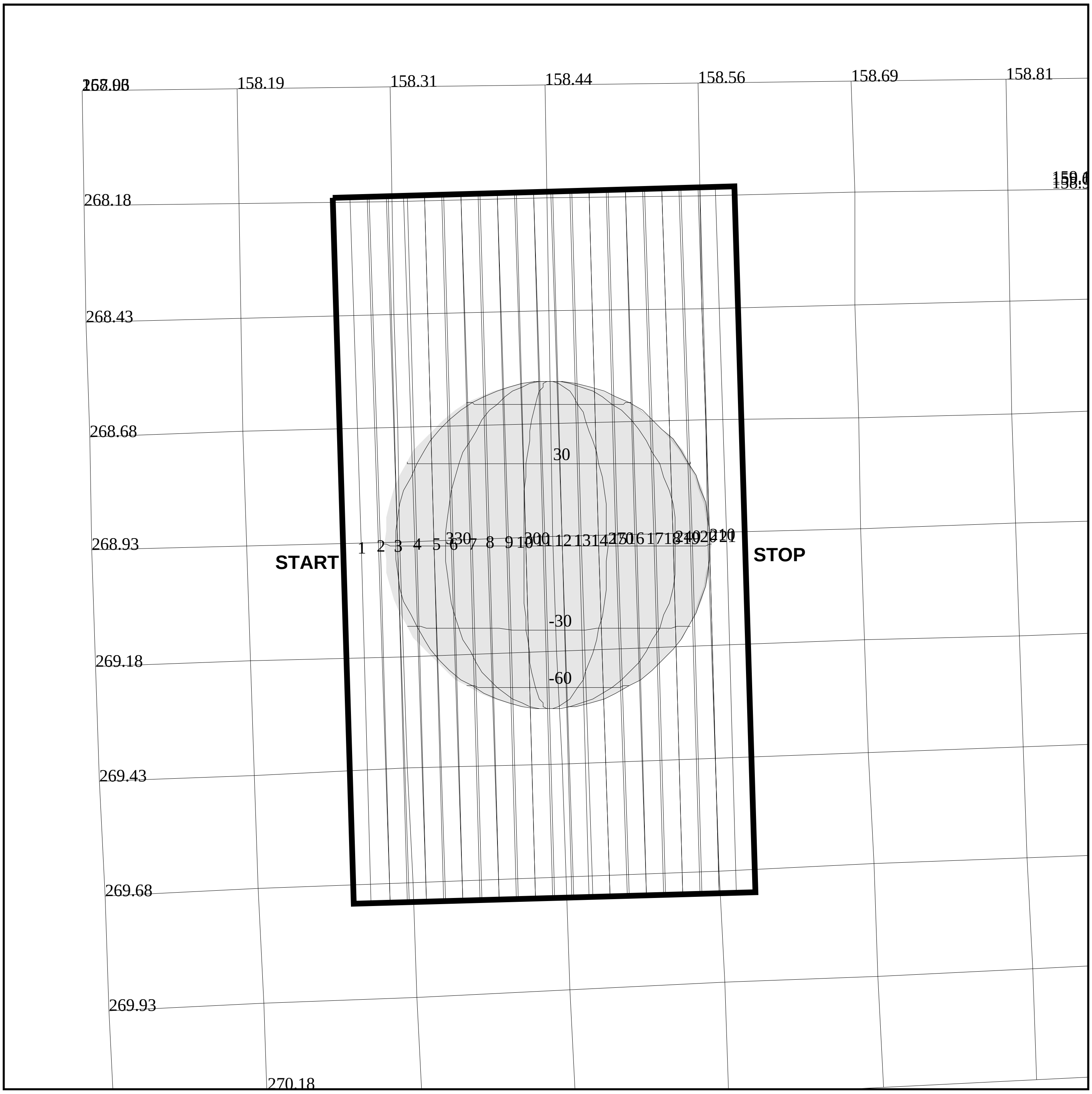
Processor Halted, No Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits.
High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.
CSMOS should start at IEE-CDS 392:00:0 with zero blockshift
Long Map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILM245, G2ILM102

Galileo Activity Plan Form 06/17/96 12:41:04 rev 6/95



165EA:TT= 0 TMC= 1 C= -2.65 XC= 0.00 BS= 7/1928 TC= 3
A= 546 pD= 536 SR=17.430 RA50=302.11 DEC50=-22.08 cone=158.28 clock=268.94
117EA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 7/1928
1:#s= 1 Cs= 5.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 536 rD= 2

G2ENLEADMP01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2ENLEADMP01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:EEE 96-251/17:05:43.266 +CDS 05:00:0

BODY PLOT TIME:TARGET-TIME D= 536 S= 0.300

OBSERVATION:G2ENLEADMP01

DESCRIP:G2 Europa Lead Map

EUROPA MAIN CIRCULAR FEATURE		ACTIVITY ID:	G2ENLEADMP01-
		START TIME:	96-251/17:07:45.932

Activity ID: Orbit G2 Target E Inst N OAPEL LEADMP SeqNo 01 -

Title	EUROPA MAIN CIRCULAR FEATURE			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2A	Calendar Date	09/07/96	Week	36

Start	EEE+CDS 2:02:0	96-251/17:07:45.932	EEE+000/00:02:02.666
End	EEE+CDS 8:03:0	96-251/17:13:50.599	EEE+000/00:08:07.333
Duration	6:01:0	000/00:06:04.667	000/00:06:04.667

Top Label	G2ENLEADMP01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	171	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Full disk coverage of the leading side of Europa, limited by Phineus and Asterius Lineas, contains good diverse coverage of linea terrain. Long. span: 210 Degrees - 360 Degrees, Lat. Span: +/- 90 Degrees, Coverage: 99 %,
Sub S/C Long.: 290 Degrees,
Sub S/C Lat.: 0.57 Degrees.

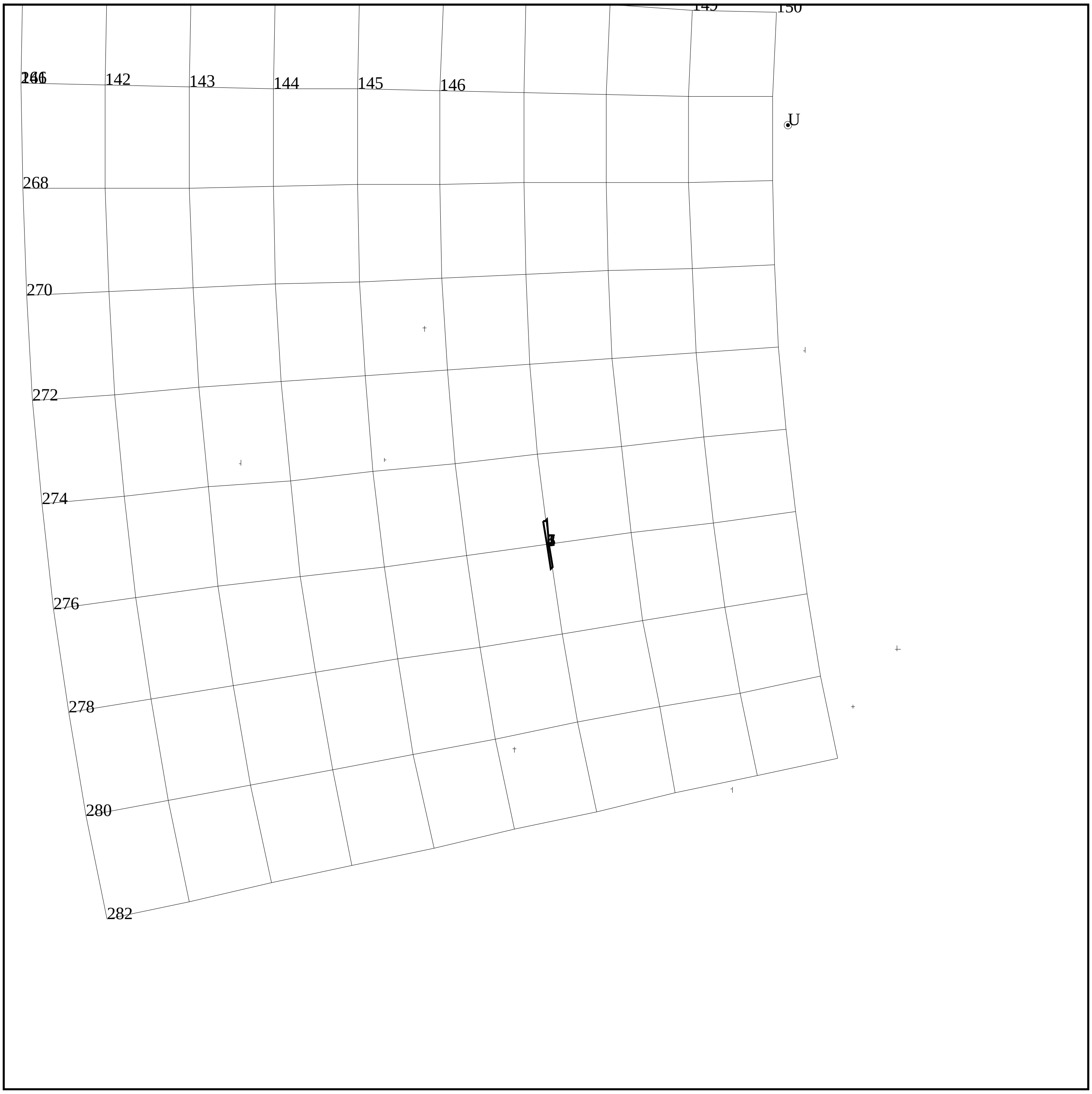
Data Returned

Design Detail

Distance: 670617 KM	Mode: Long Map	Num. of Wavelengths: 204
Phase: 9.28 Degrees	Slew rate: 30 mr/s,	Cone: 160.45 Degrees
% overlap: 30	Area cov. in pix: 67	Resolution: 335.3 km/pix
Num. of strips: 1	Booms: OK	NIMS f.o.v./strip: 9
ASD: 0.134	DMS mode: 7.68	Bits-to-Ground: 753000
Tracks: 0.0052		

Long Map (LM), Gain 3, Grating Start 0, LPU, G2ELM221, G2ELM204

Galileo Activity Plan Form   06/17/96 12:41:04   rev 6/95



165EB:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3748 TC= 2(147 276)
A= 536 pD= 0 SR=17.430 RA50=314.76 DEC50=-23.00 cone=147.00 clock=276.00

G2HNDARK__04

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2HNDARK__04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 1**

START:GEE 96-250/19:00:09.333 +CDS 1326:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:G2HNDARK__04 **DESCRIP:DARK SKY 04**

DARK SKY	ACTIVITY ID: G2HNDARK 04- START TIME: 96-251/17:16:50.666

Activity ID: Orbit G2 Target H Inst N OAPEL DARK SeqNo 04 -

Title	DARK SKY			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2A	Calendar Date	09/07/96	Week	36

Start	GEE+CDS 1322:00:0	96-251/17:16:50.666	GEE+000/22:16:41.333
End	GEE+CDS 1328:00:0	96-251/17:22:54.666	GEE+000/22:22:45.333
Duration	6:00:0	000/00:06:04.000	000/00:06:04.000

Top Label	G2HNDARK 04-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	141	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Collect Dark Values for calibration purposes.

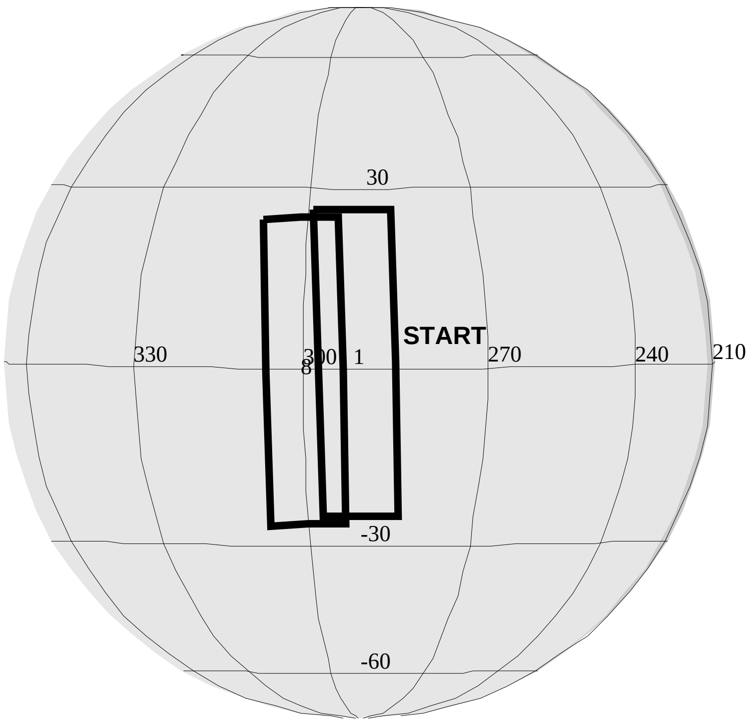
Data Returned

Design Detail

Slew to dark space and record 1 Rim of dark values.
Long Map
Gain State 2
Targeting should be completed by GEE+CDS 1326:00:0 with zero blockshift.

Long Map (LM), Gain 3, Grating Start 0, MPW, G2DRK34, G2DRK34

Galileo Activity Plan Form 06/17/96 12:41:04 rev 6/95



165FC:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/5932 TC= 3
A= 728 pD= 0 SR=17.430 RA50=303.87 DEC50=-21.65 cone=156.59 clock=268.78
117FF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5932
1:#s= 1 Cs= -3.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

G2ENEURORT01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2ENEURORT01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

THINNING:NIM 7

START:EEE 96-251/17:05:43.266 +CDS 27:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

OBSERVATION:G2ENEURORT01

DESCRIP:G2ENEURORT01

ENEURORT		ACTIVITY ID:	G2ENEURORT01-
		START TIME:	96-251/17:28:58.599

Activity ID: Orbit G2 Target E Inst N OAPEL EURORT SeqNo 01 -

Title	ENEURORT			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System CDS   Load ID G2A   Calendar Date 09/07/96 Week 36

Start	EEE+CDS 23:00:0	96-251/17:28:58.599	EEE+000/00:23:15.333
End	EEE+CDS 31:00:0	96-251/17:37:03.932	EEE+000/00:31:20.666
Duration	8:00:0	000/00:08:05.333	000/00:08:05.333

Top Label   G2ENEURORT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	178	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

Early Europa spectra will be used to optimize NIMS wavelength table for this observation.

Data Returned

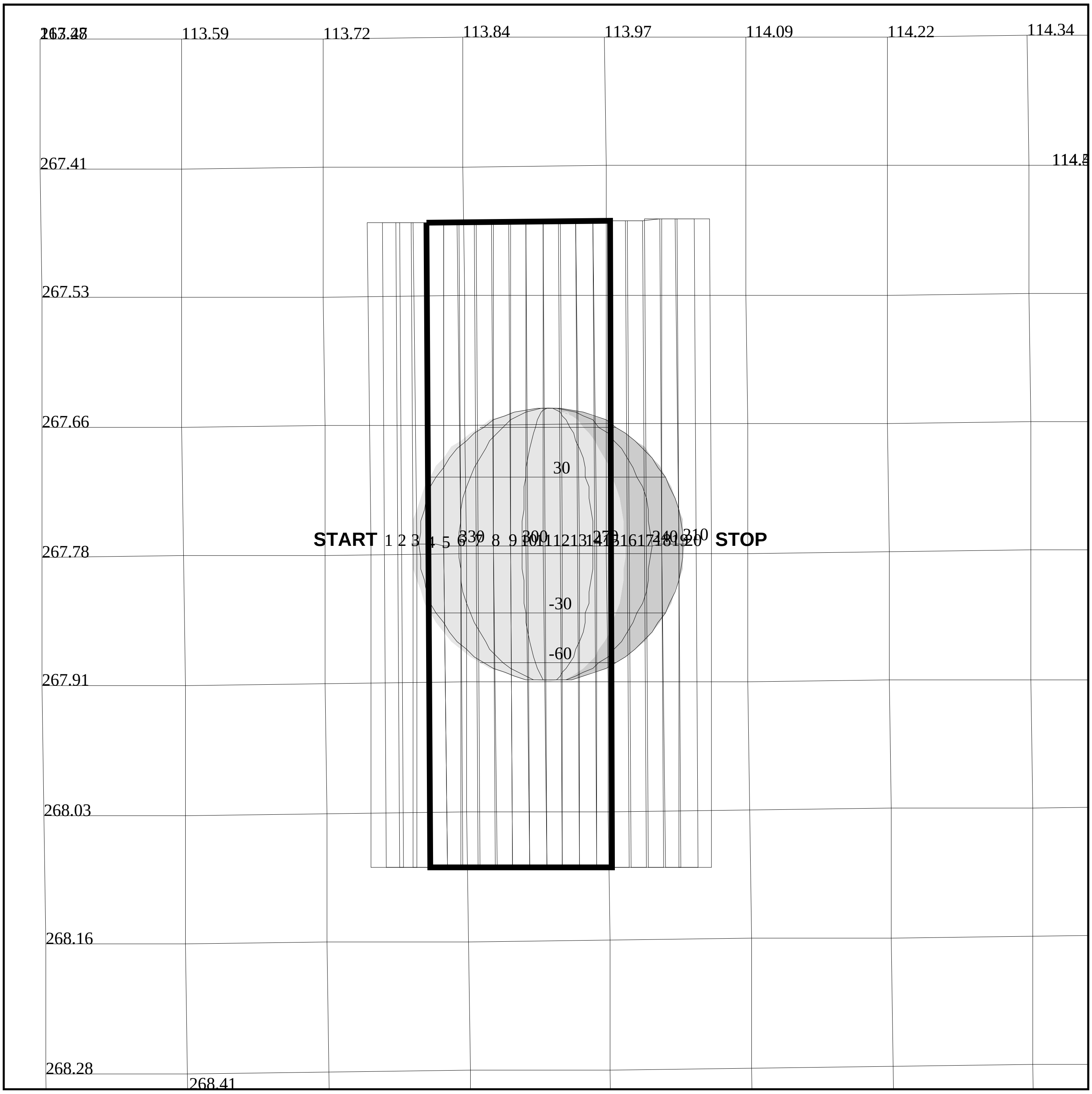
Design Detail

Distance: 670617 KM	Mode: Long Map	Phase 9.28 Degrees
Slew rate 30 mr/s	Cone: 160.45 Degrees	% overlap: 30
Area cov. in pix.: 67	Num of Wavelegths: 204	Resolution: 335.3 km/pix
Num. of strips: 1	Booms: OK	NIMS f.o.v./strip: 9
ASD 0.134.		

Mirror Blocked (1B,1B) (11011,11011)
2 Rims returned (2 grating cycles)

Long Map (LM), Gain 3, Grating Start 0, R/T, G2ELM442

Galileo Activity Plan Form   06/17/96 12:41:04   rev 6/95



165EC:TT= 0 TMC= 1 C= -1.75 XC= 0.00 BS=52/7428 TC= 3
A= 546 pD= 470 SR=17.430 RA50=345.30 DEC50= -6.46 cone=113.81 clock=267.77
117EC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=52/7428
1:#s= 1 Cs= 4.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 414 rD= 2

G2INCHEMIS05

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INCHEMIS05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 +15:59:00.000

OBSERVATION:G2INCHEMIS05

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 470 S= 0.250

DESCRIP:DAYSIDE MONITORING OF IO

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: G2INCHEMIS05- START TIME: 96-251/21:20:59.932

Activity ID: Orbit G2 Target I Inst N OAPEL CHEMIS SeqNo 05 -

Title	MONITORING OF IO'S DAYSIDE			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2A Calendar Date 09/07/96 Week 36

Start	IEE+CDS 945:43:0	96-251/21:20:59.932	IEE+000/15:55:58.666
End	IEE+CDS 951:10:0	96-251/21:26:41.932	IEE+000/16:01:40.666
Duration	5:58:0	000/00:05:42.000	000/00:05:42.000

Top Label G2INCHEMIS05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	178	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

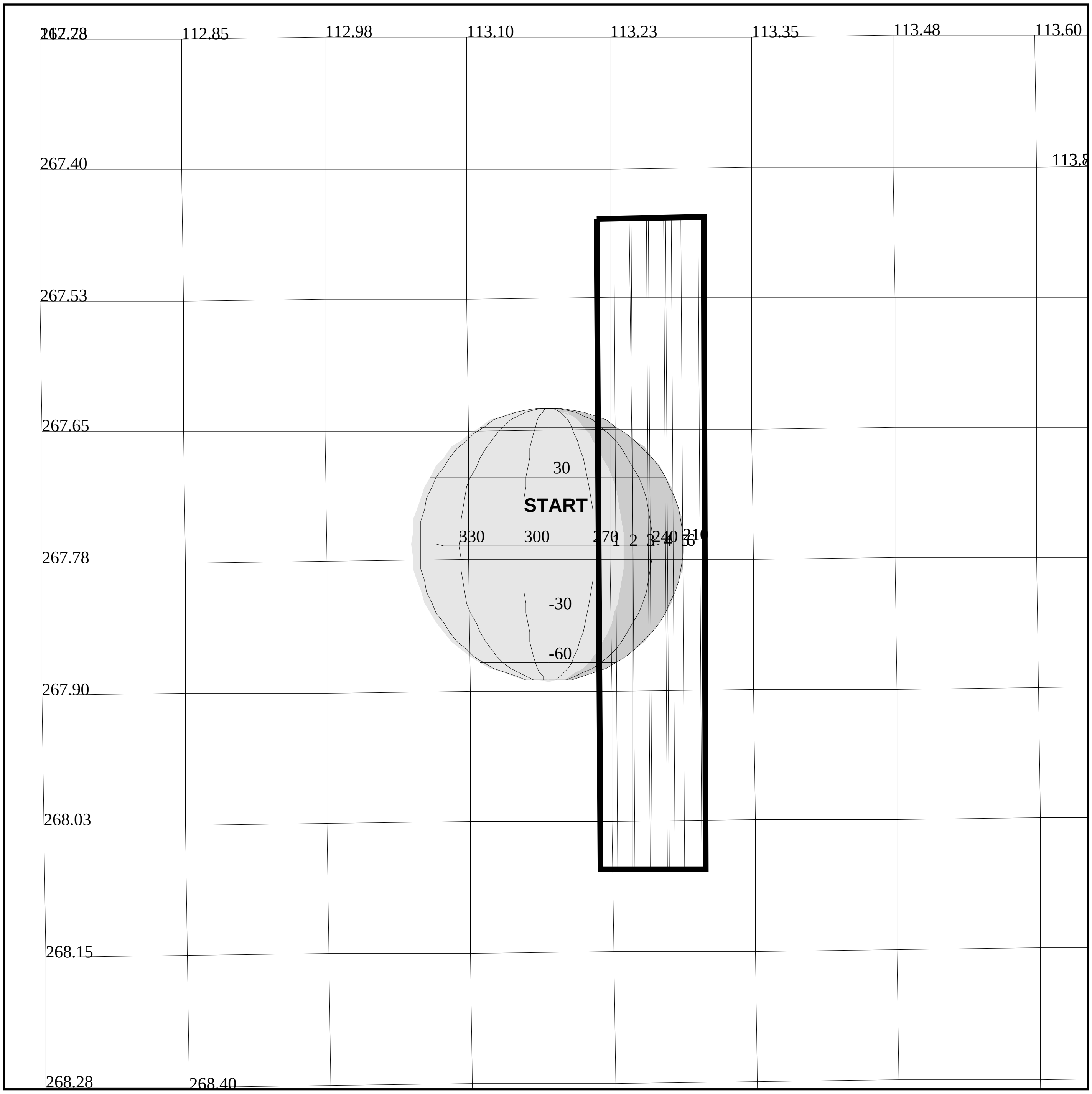
Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. SO2 distribution) at resolutions better than ~800 km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits.
High priority orbits are G2, C3, E4, E6 and E10 where resolution for lit disk is best.
CSMOS should start at IEE-CDS 392:00:0 with zero blockshift
Long Map, 51 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits To Ground per orbit: 0.3 to 2.2 Mbits.

Long Map (LM), Gain 2, Grating Start 0, MPW, G2ILM245, G2ILM102



165ED:TT= 0 TMC= 1 C= 0.90 XC= 0.00 BS= 0/9066 TC= 3
A= 546 pD= 320 SR= 6.000 RA50=345.83 DEC50= -6.21 cone=113.23 clock=267.76
117ED:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9066
1:#s= 1 Cs= 1.25 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 150 rD= 2

G2INTHRMAL01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INTHRMAL01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 +CDS 957:00:0

OBSERVATION:G2INTHRMAL01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 320 S= 0.250

DESCRIP:THERMAL NIGHT MONITORING OF IO

MONITORING OF IO'S NIGHTSIDE	ACTIVITY ID: G2INTHRMAL01- START TIME: 96-251/21:27:59.932

Activity ID: Orbit G2 Target I Inst N OAPEL THRMAL SeqNo 01 -

Title	MONITORING OF IO'S NIGHTSIDE			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2A Calendar Date 09/07/96 Week 36

Start	IEE+CDS 952:36:0	96-251/21:27:59.932	IEE+000/16:02:58.666
End	IEE+CDS 958:20:0	96-251/21:33:53.266	IEE+000/16:08:52.000
Duration	5:75:0	000/00:05:53.334	000/00:05:53.334

Top Label G2INTHRMAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	171	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Thermal monitoring of Io's nightside covering as wide a range of longitudes as possible with resolutions better than ~800 km/nimsel. Objective is to search for and map hot spots, thermal anomalies and outbursts on the surface. Observations will also include the limb to search for auroral effects.

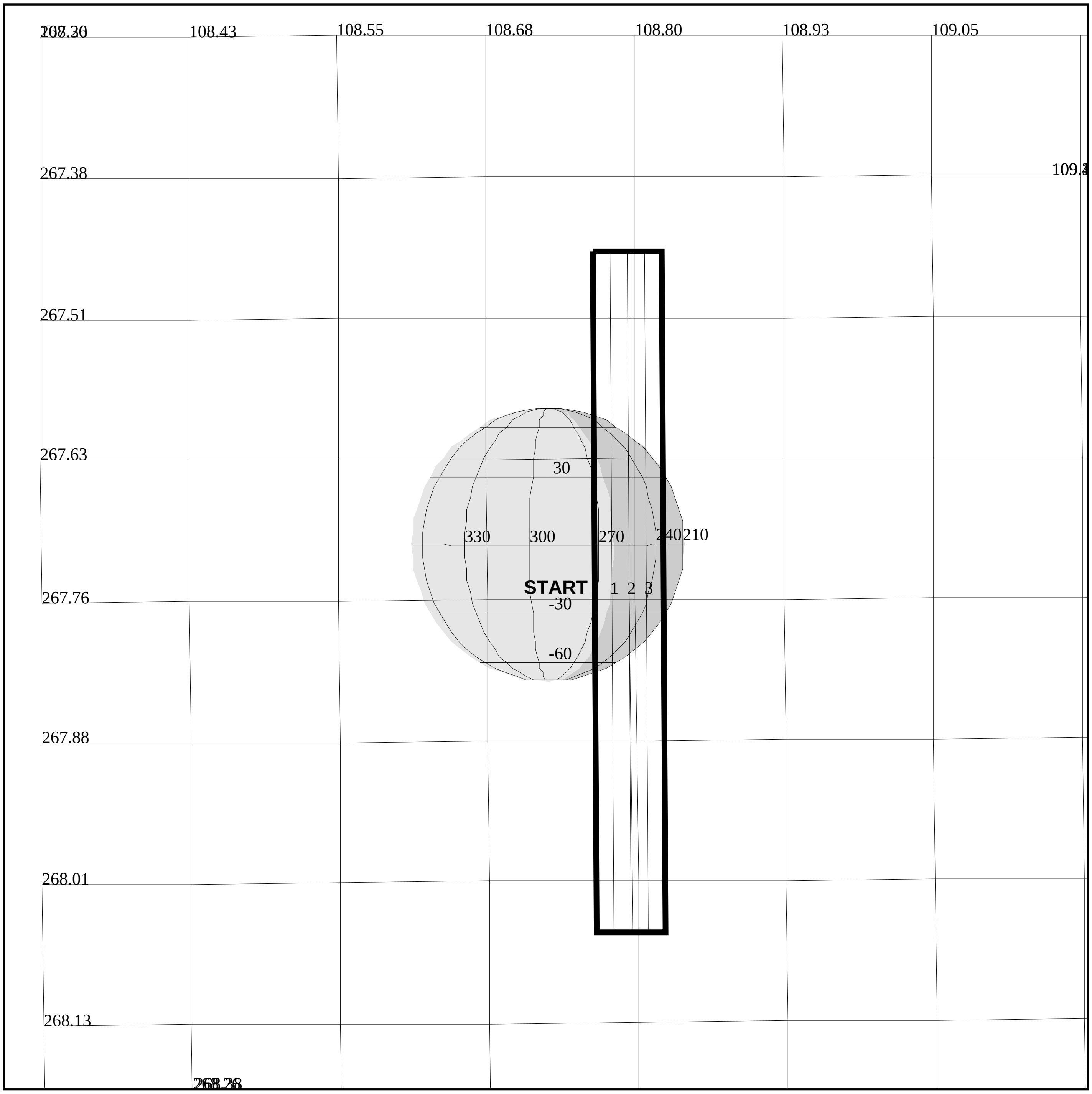
Data Returned

Design Detail

Partial or full disk mosaics within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3, and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolution for LOKI.
Instrument mode: Long Map,
Number of Wavelengths: 51,
Tracks used per orbit: 0.01 to 0.1,
Bits To Ground used per orbit: 0.01 to 0.5 Mbits.
CSMOS should start at IEE+CDS 957:00:0 with zero blockshift

Long Map (LM), Gain 4, Grating Start 0, LPU, G2ILMDK221, G2ILMDK10

Galileo Activity Plan Form 06/17/96 12:41:05 rev 6/95



165EE:TT= 0 TMC= 1 C= -0.20 XC= 0.00 BS= 0/8348 TC= 1(-20 260)
A= 546 pD= 90 SR=17.430 RA50=349.89 DEC50= -4.33 cone=108.77 clock=267.75
117EE:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8348
1:#s= 1 Cs= 0.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 90 rD= 2

G2INVOLCAN01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INVOLCAN01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:IEE 96-251/05:25:01.266 +CDS 1008:00:0

OBSERVATION:G2INVOLCAN01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 90 S= 0.250

DESCRIP:MONITORING OF PELEE

MON. OF SELECTED VOLCANIC REG.	ACTIVITY ID: G2INVOLCAN01- START TIME: 96-251/22:20:10.599

Activity ID: Orbit G2 Target I Inst N OAPEL VOLCAN SeqNo 01 -

Title	MON. OF SELECTED VOLCANIC REG.			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2A	Calendar Date	09/07/96	Week	36

Start	IEE+CDS 1004:00:0	96-251/22:20:10.599	IEE+000/16:55:09.333
End	IEE+CDS 1009:00:0	96-251/22:25:13.932	IEE+000/17:00:12.666
Duration	5:00:0	000/00:05:03.333	000/00:05:03.333

Top Label	G2INVOLCAN01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	171	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions (Loki, Pelee, Kanehekili) using selected wavelengths.

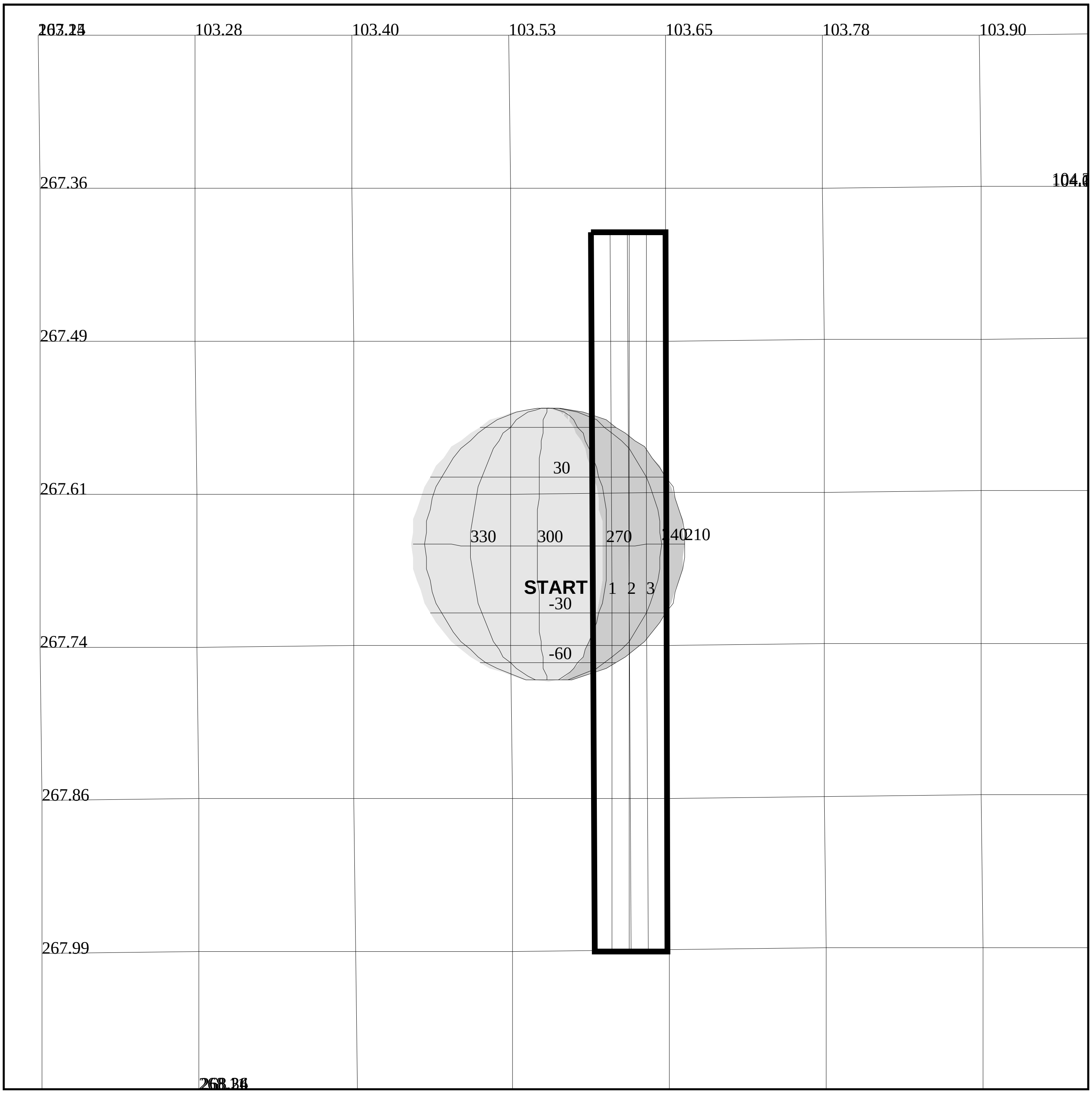
Data Returned

Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.
CSMOS should start at IEE+CDS 1008:00:0 with zero blockshift

Locations of features:	Kanehekili	(-10 d. lat, +40 d. long)
	Pelee	(-20 d. lat, -255 d. long)
	Loki	(+12 d. lat, 310 d. long)

Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILMDK221, G2ILMDK10



165EF:TT= 0 TMC= 1 C= -0.30 XC= 0.00 BS= 0/9268 TC= 1(-20 260)
A= 546 pD= 90 SR=17.430 RA50=354.56 DEC50= -2.09 cone=103.60 clock=267.69
117EF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9268
1:#s= 1 Cs= 0.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 90 rD= 2

G2INVOLCAN02

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INVOLCAN02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-251/05:25:01.266 +CDS 1068:00:0

BODY PLOT TIME:TARGET-TIME D= 90 S= 0.250

OBSERVATION:G2INVOLCAN02

DESCRIP:MONITORING OF PELEE

MON. OF SELECTED VOLCANIC REG.	ACTIVITY ID:	G2INVOLCAN02-
	START TIME:	96-251/23:20:50.599

Activity ID: Orbit G2 Target I Inst N OAPEL VOLCAN SeqNo 02 -

Title	MON. OF SELECTED VOLCANIC REG.			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2A Calendar Date 09/07/96 Week 36

Start	IEE+CDS 1064:00:0	96-251/23:20:50.599	IEE+000/17:55:49.333
End	IEE+CDS 1069:00:0	96-251/23:25:53.932	IEE+000/18:00:52.666
Duration	5:00:0	000/00:05:03.333	000/00:05:03.333

Top Label G2INVOLCAN02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

Data Returned

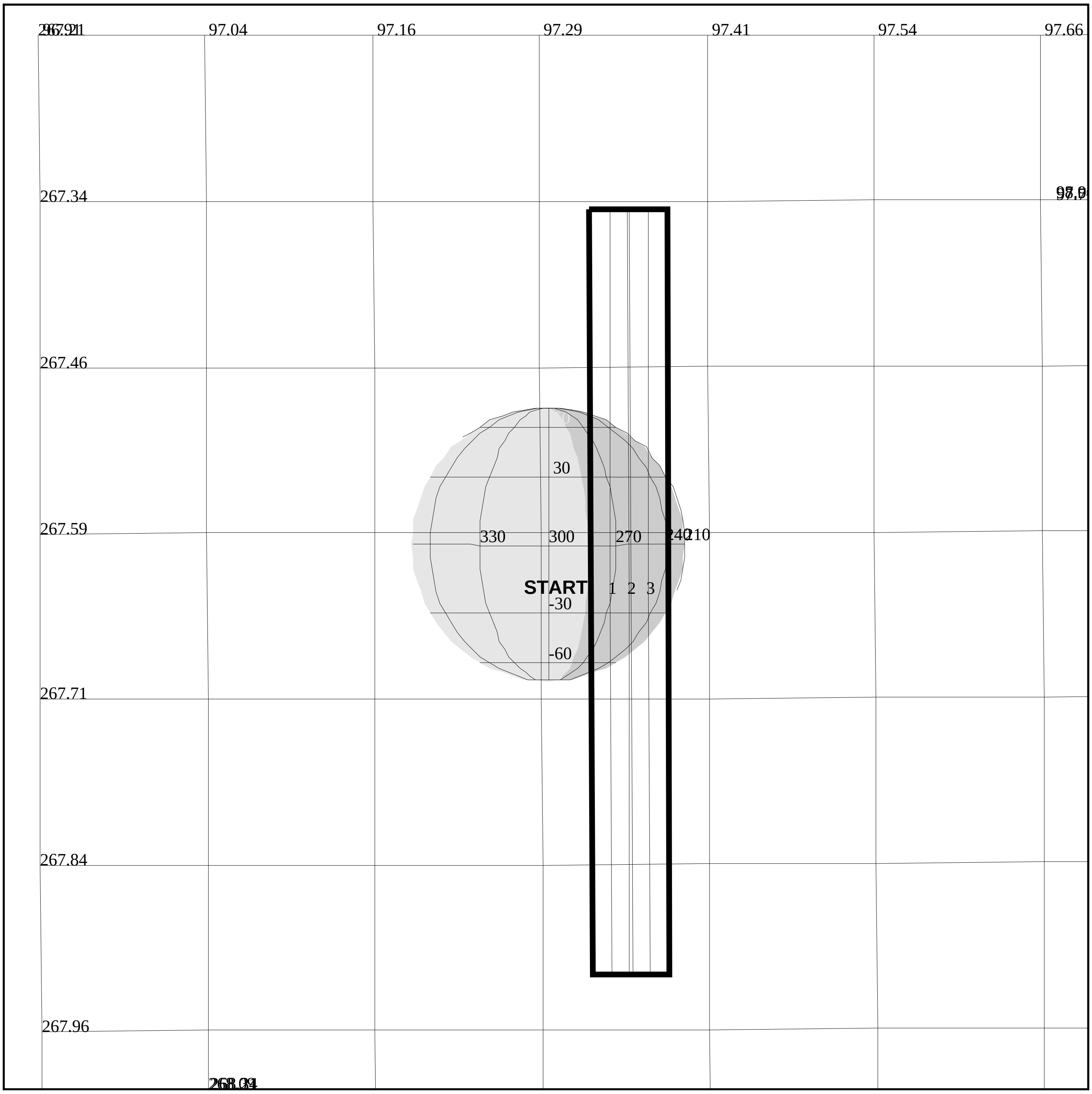
Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.
CSMOS should start at IEE+CDS 1068:00:0 with zero blockshift

Locations of features: Kanehekili (-10 d. lat, +40 d. long)
Pelee (-20 d. lat, -255 d. long)
Loki (+12 d. lat, 310 d. long)

Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILMDK221, G2ILMDK10

Galileo Activity Plan Form 06/17/96 12:41:05 rev 6/95



165EH:TT= 0 TMC= 1 C= -0.40 XC= 0.00 BS= 0/2736 TC= 1(-20 260)
A= 546 pD= 90 SR=17.430 RA50= 0.20 DEC50= 0.64 cone= 97.33 clock=267.63
117EH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2736
1:#s= 1 Cs= 0.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 90 rD= 2

G2INVOLCAN03

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INVOLCAN03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-251/05:25:01.266 +CDS 1142:00:0

BODY PLOT TIME:TARGET-TIME D= 90 S= 0.250

OBSERVATION:G2INVOLCAN03

DESCRIP:MONITORING OF PELEE

MON. OF SELECTED VOLCANIC REG. ACTIVITY ID: G2INVOLCAN03-
START TIME: 96-252/00:35:39.932

Activity ID: Orbit G2 Target I Inst N OAPEL VOLCAN SeqNo 03 -

Title	MON. OF SELECTED VOLCANIC REG.			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2B Calendar Date 09/08/96 Week 36

Start	IEE+CDS 1138:00:0	96-252/00:35:39.932	IEE+000/19:10:38.666
End	IEE+CDS 1143:00:0	96-252/00:40:43.266	IEE+000/19:15:42.000
Duration	5:00:0	000/00:05:03.334	000/00:05:03.334

Top Label G2INVOLCAN03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

Data Returned

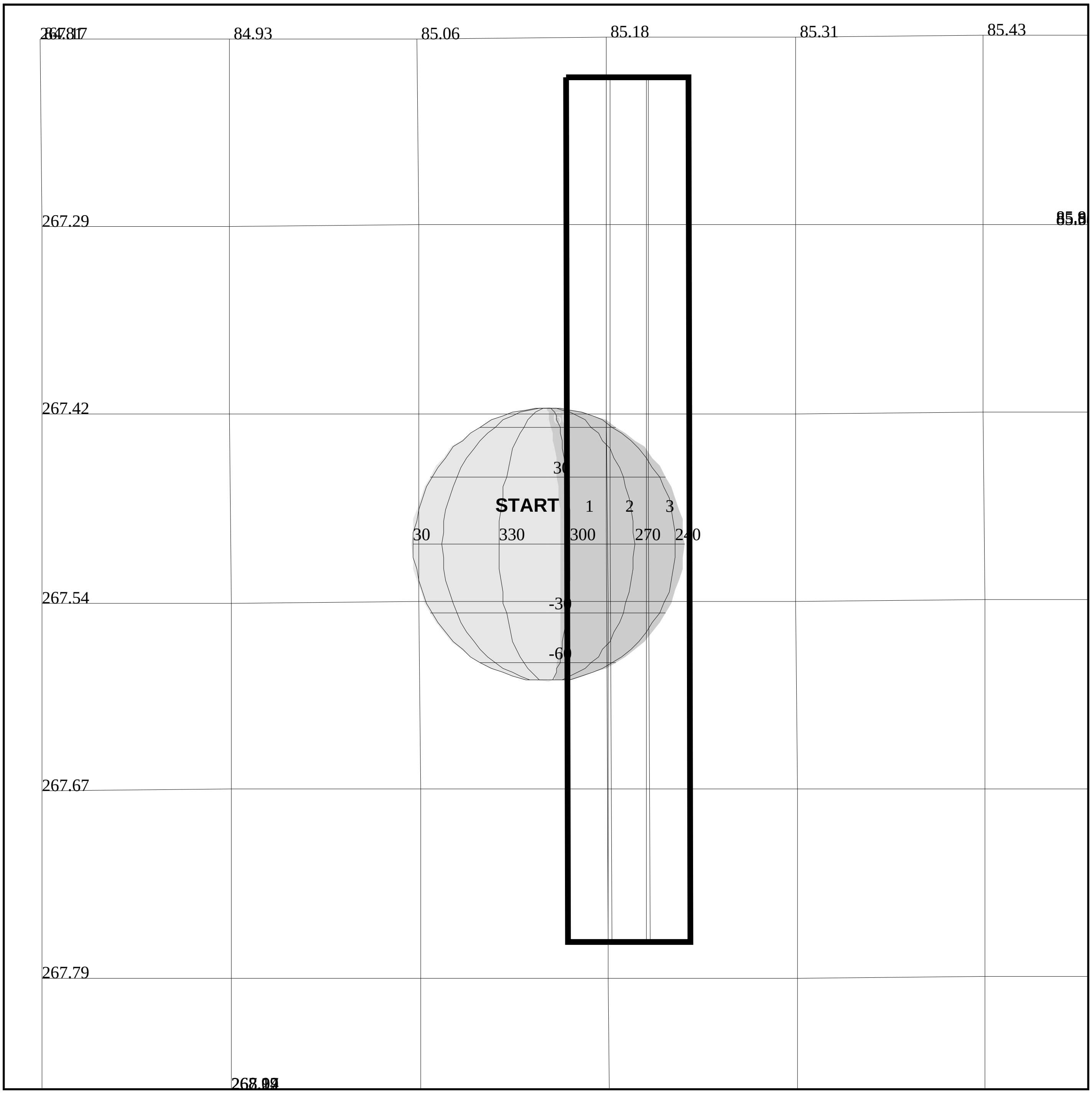
Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.
CSMOS should start at IEE+CDS 1142:00:0 with zero blockshift

Locations of features: Kanehekili (-10 d. lat, +40 d. long)
Pelee (-20 d. lat, -255 d. long)
Loki (+12 d. lat, 310 d. long)

Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILMDK221, G2ILMDK10

Galileo Activity Plan Form 06/17/96 12:41:05 rev 6/95



165EI:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9854 TC= 1(15 300)
A= 546 pD= 0 SR=17.430 RA50= 11.18 DEC50= 5.94 cone= 85.16 clock=267.48
117EI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9854
1:#s= 1 Cs= 0.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 90 rD= 2

G2INVOLCAN04

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INVOLCAN04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 1**

START:IEE 96-251/05:25:01.266 +CDS 1291:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.250**

OBSERVATION:G2INVOLCAN04 **DESCRIP:MONITORING OF LOKI**

MON. OF SELECTED VOLCANIC REG.	ACTIVITY ID: G2INVOLCAN04- START TIME: 96-252/03:06:19.266

Activity ID: Orbit G2 Target I Inst N OAPEL VOLCAN SeqNo 04 -

Title	MON. OF SELECTED VOLCANIC REG.			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2B	Calendar Date	09/08/96	Week	36

Start	IEE+CDS 1287:00:0	96-252/03:06:19.266	IEE+000/21:41:18.000
End	IEE+CDS 1292:00:0	96-252/03:11:22.599	IEE+000/21:46:21.333
Duration	5:00:0	000/00:05:03.333	000/00:05:03.333

Top Label	G2INVOLCAN04-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions (Loki, Pelee, Kanehekili) using selected wavelengths.

Data Returned

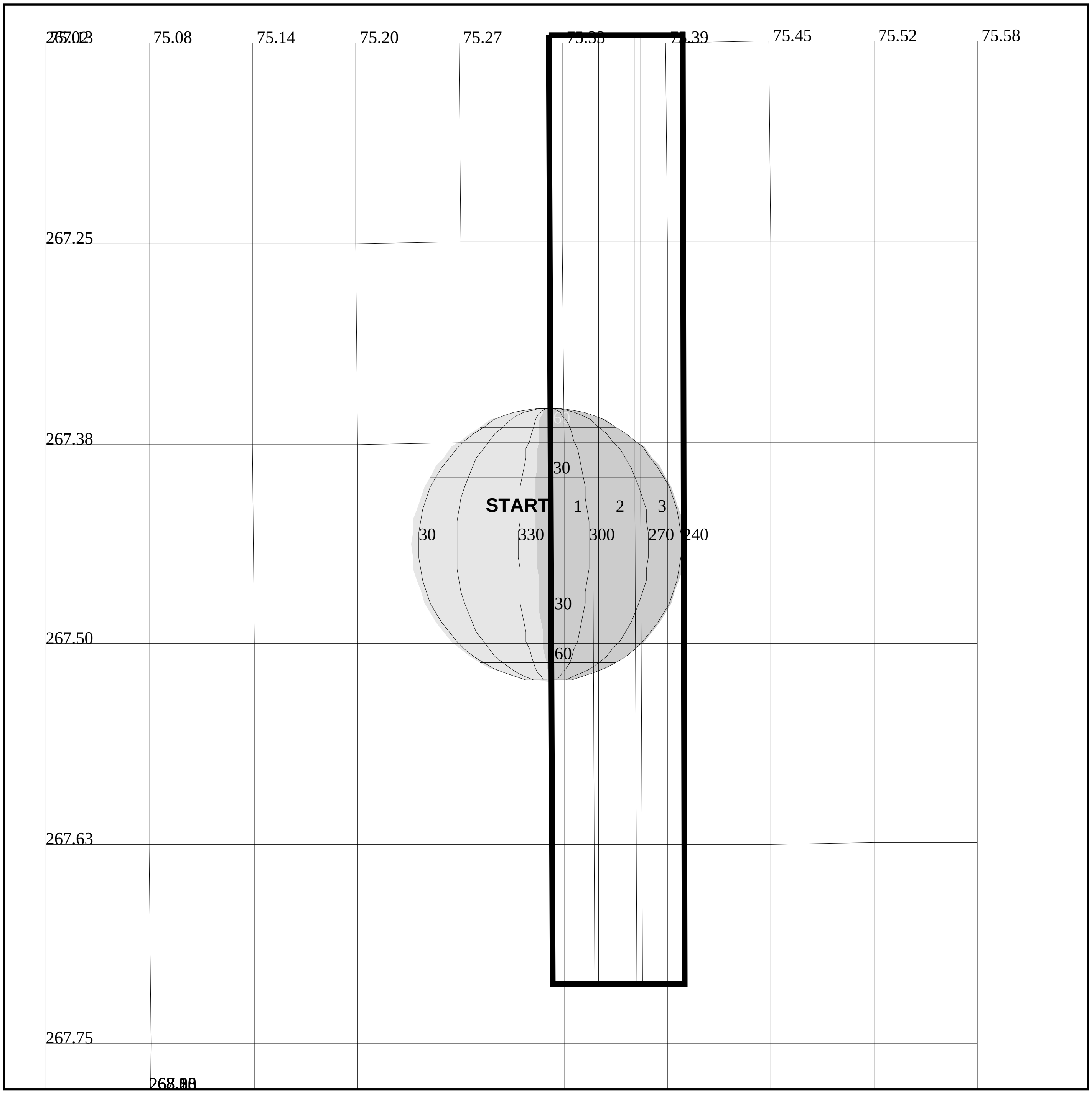
Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.
CSMOS should start at IEE+CDS 1291:00:0 with zero blockshift

Locations of features:	Kanehekili	(-10 d. lat, +40 d. long)
	Pelee	(-20 d. lat, -255 d. long)
	Loki	(+12 d. lat, 310 d. long)

Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILMDK221, G2ILMDK10

Galileo Activity Plan Form 06/17/96 12:41:05 rev 6/95



165EJ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2967 TC= 1(15 315)
A= 546 pD= 0 SR=17.430 RA50= 20.23 DEC50= 10.02 cone= 75.32 clock=267.42
117EJ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2967
1:#s= 1 Cs= 0.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 90 rD= 2

G2INVOLCAN05

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2INVOLCAN05

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-251/05:25:01.266 +CDS 1418:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.250

OBSERVATION:G2INVOLCAN05

DESCRIP:LOKI

MON. OF SELECTED VOLCANIC REG. ACTIVITY ID: G2INVOLCAN05-
START TIME: 96-252/05:14:43.932

Activity ID: Orbit G2 Target I Inst N OAPEL VOLCAN SeqNo 05 -

Title	MON. OF SELECTED VOLCANIC REG.	Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES Team NIMS	Working Group	SWG

Time System CDS Load ID G2B Calendar Date 09/08/96 Week 36

Start	IEE+CDS 1414:00:0	96-252/05:14:43.932	IEE+000/23:49:42.666
End	IEE+CDS 1419:00:0	96-252/05:19:47.266	IEE+000/23:54:46.000
Duration	5:00:0	000/00:05:03.334	000/00:05:03.334

Top Label G2INVOLCAN05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

To monitor time variations in activity of selected regions
(Loki, Pelee, Kanehekili) using selected wavelengths.

Data Returned

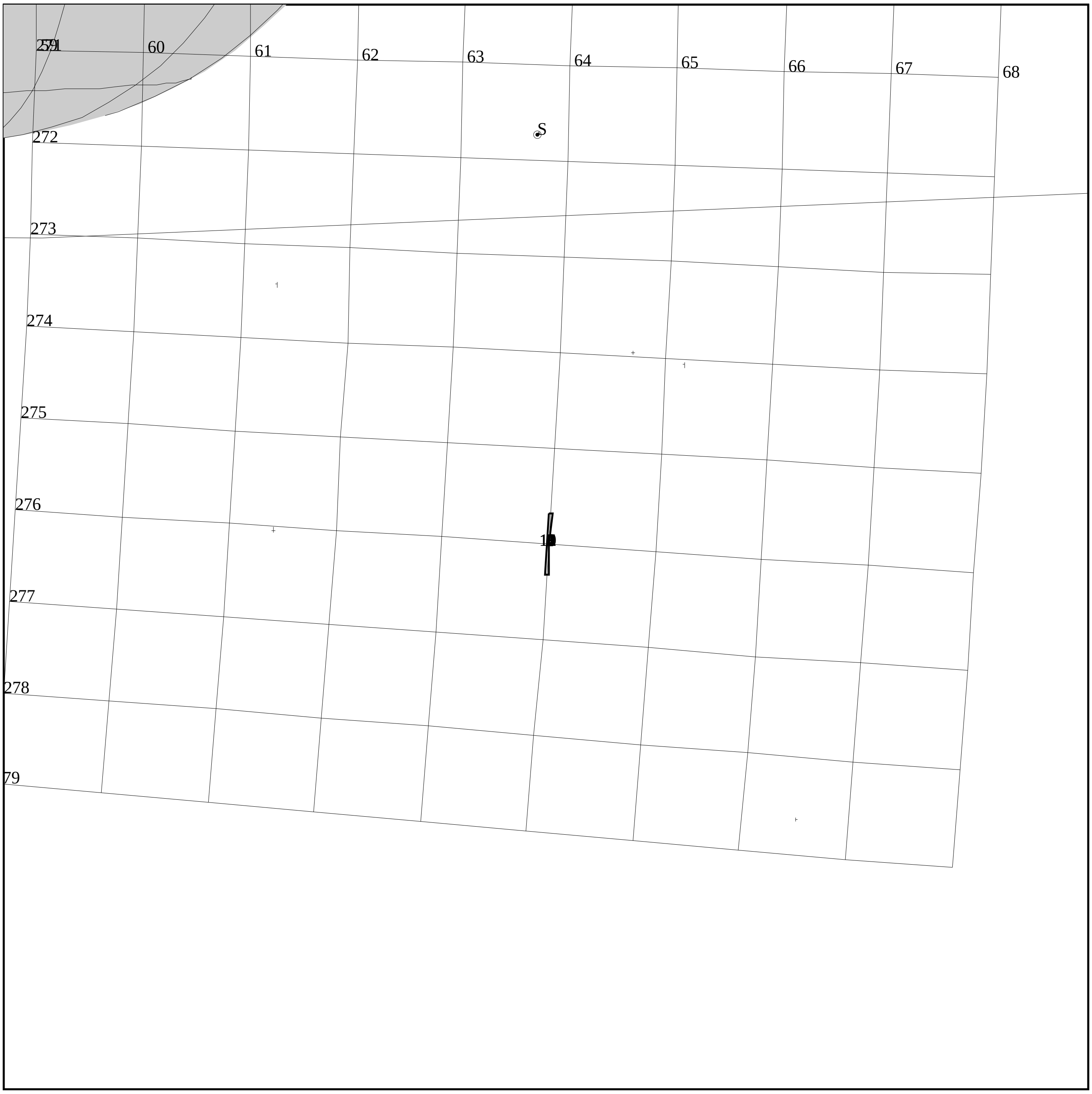
Design Detail

Long Map, 8 wavelengths, 30 secs duration (or less).
Orbit 7 is high priority for Loki region,
will be seen at the best nightside resolution (278 km).
~ 5 observations per orbit.
Tracks: 0.005 per observation.
CSMOS should start at IEE+CDS 1418:00:0 with zero blockshift

Locations of features:
Kanehekili (-10 d. lat, +40 d. long)
Pelee (-20 d. lat, -255 d. long)
Loki (+12 d. lat, 310 d. long)

Long Map (LM), Gain 2, Grating Start 0, LPU, G2ILMDK221, G2ILMDK10

Galileo Activity Plan Form 06/17/96 12:41:05 rev 6/95



165EK:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=64/4059 TC= 2(64 276)
A= 718 pD= 0 SR=17.430 RA50= 33.98 DEC50= 7.21 cone= 64.00 clock=276.00

G2HNDARK__05

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2HNDARK__05

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 1**

START:GEE 96-250/19:00:09.333 +CDS 2042:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:G2HNDARK__05 **DESCRIP:DARK SKY 05**

DARK SKY		ACTIVITY ID:	G2HNDARK 05-
		START TIME:	96-252/05:20:47.999

Activity ID: Orbit G2 Target H Inst N OAPEL DARK SeqNo 05 -

Title	DARK SKY			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2B Calendar Date 09/08/96 Week 36

Start	GEE+CDS 2038:00:0	96-252/05:20:47.999	GEE+001/10:20:38.666
End	GEE+CDS 2045:00:0	96-252/05:27:52.666	GEE+001/10:27:43.333
Duration	7:00:0	000/00:07:04.667	000/00:07:04.667

Top Label G2HNDARK 05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Collect Dark Values for calibration purposes.

Data Returned

Design Detail

Slew to dark space and record 1 Rim of dark values.
Long Map
Gain State 2

Long Map (LM), Gain 2, Grating Start 0, LPU, G2DRK34, G2DRK34

Galileo Activity Plan Form 06/17/96 12:41:05 rev 6/95

This page Blank on purpose (No Pointer plot for PCT cal)

NIMS PCT Calibration	ACTIVITY ID: G2NNPCTCAL01- START TIME: 96-252/13:54:26.666

Activity ID: Orbit G2 Target N Inst N OAPEL PCTCAL SeqNo 01 -

Title	NIMS PCT Calibration			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2A Calendar Date 09/08/96 Week 36

Start	GEE+CDS 2546:00:0	96-252/13:54:26.666	GEE+001/18:54:17.333
End	GEE+CDS 2649:00:0	96-252/15:38:35.333	GEE+001/20:38:26.000
Duration	103:00:0	000/01:44:08.667	000/01:44:08.667

Top Label G2NNPCTCAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	465	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

This observation is a NIMS photometric calibration using the PCT target. The data will be used to calibrate the NIMS visible detectors. The calibration data will be recorded. This calibration will take place near the end of the G2 Encounter phase. At this time the spacecraft angle is about 10 degrees, not an ideal sun angle for a PCT calibration. A NIMS Optical Calibration is also performed.

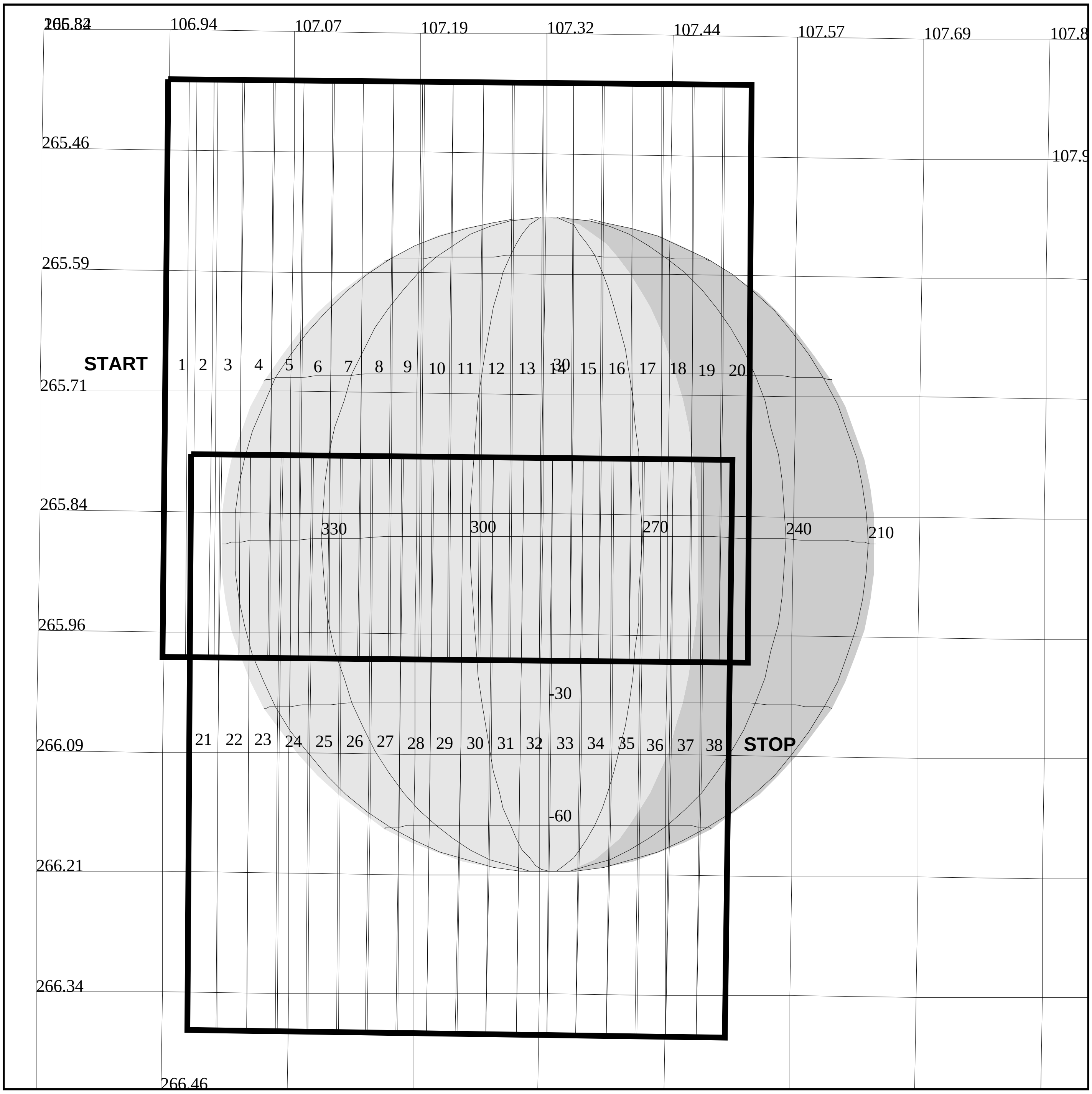
Data Returned

Design Detail

The Dark cone,clock angles must be selected using POinter.
1) Turn off PCT heaters 6 hours before calibration.
2) Set NIMS to Long Map Mode, Gain State 4, ETB = PCT252,
   The OPCAL diode will be turned on before step 5.
3) Slew to Dark (cone=110.00, clock=90.00), Record 3 Rims in LPU.
4) Slew to PCT (cone= 54.88, clock=244.07), Record 3 Rims in LPU.
5) Slew to Dark (cone=110.00, clock=90.00), Record 3 Rims in LPU.
   (The first Rim contains the OPCAL data).
6) Slew to Safe (cone=153.00, clock= 0.00).

Long Map (LM), Gain 4, Grating Start 0, LPU, G2PCT252, G2PCT180, G2OPCAL48

Galileo Activity Plan Form 06/17/96 12:41:05 rev 6/95



165EL:TT= 0 TMC= 1 C= -5.75 XC= -3.00 BS=52/7827 TC= 3
A= 182 pD= 2250 SR= 3.000 RA50=350.66 DEC50= -1.80 cone=106.99 clock=265.69
117EL:#SB= 1 OR= 0.030 RR= 5.000 BM=F RC= 1 BS=52/7827
1:#s= 2 Cs= 9.00 XCs= 0.00 Cr= -9.25 XCr= 6.50 sD= 910 rD= 34

G2CNGLOBAL01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2CNGLOBAL01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:CEE 96-253/10:23:57.133 +CDS 04:00:0

OBSERVATION:G2CNGLOBAL01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 2250 S= 0.600

DESCRIP:G2 Callisto Global Coverage

CALLISTO GLOBAL COVERAGE		ACTIVITY ID:	G2CNGLOBAL01-
		START TIME:	96-253/10:25:58.466

Activity ID: Orbit G2 Target C Inst N OAPEL GLOBAL SeqNo 01 -

Title	CALLISTO GLOBAL COVERAGE			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2B Calendar Date 09/09/96 Week 37

Start	CEE+CDS 2:00:0	96-253/10:25:58.466	CEE+000/00:02:01.333
End	CEE+CDS 20:00:0	96-253/10:44:10.466	CEE+000/00:20:13.333
Duration	18:00:0	000/00:18:12.000	000/00:18:12.000

Top Label G2CNGLOBAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	168	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

The objective is to obtain the best combined spatial and spectral resolution of Callisto’s surface, to investigate the mineralogy and to determine the distribution of compositional units.

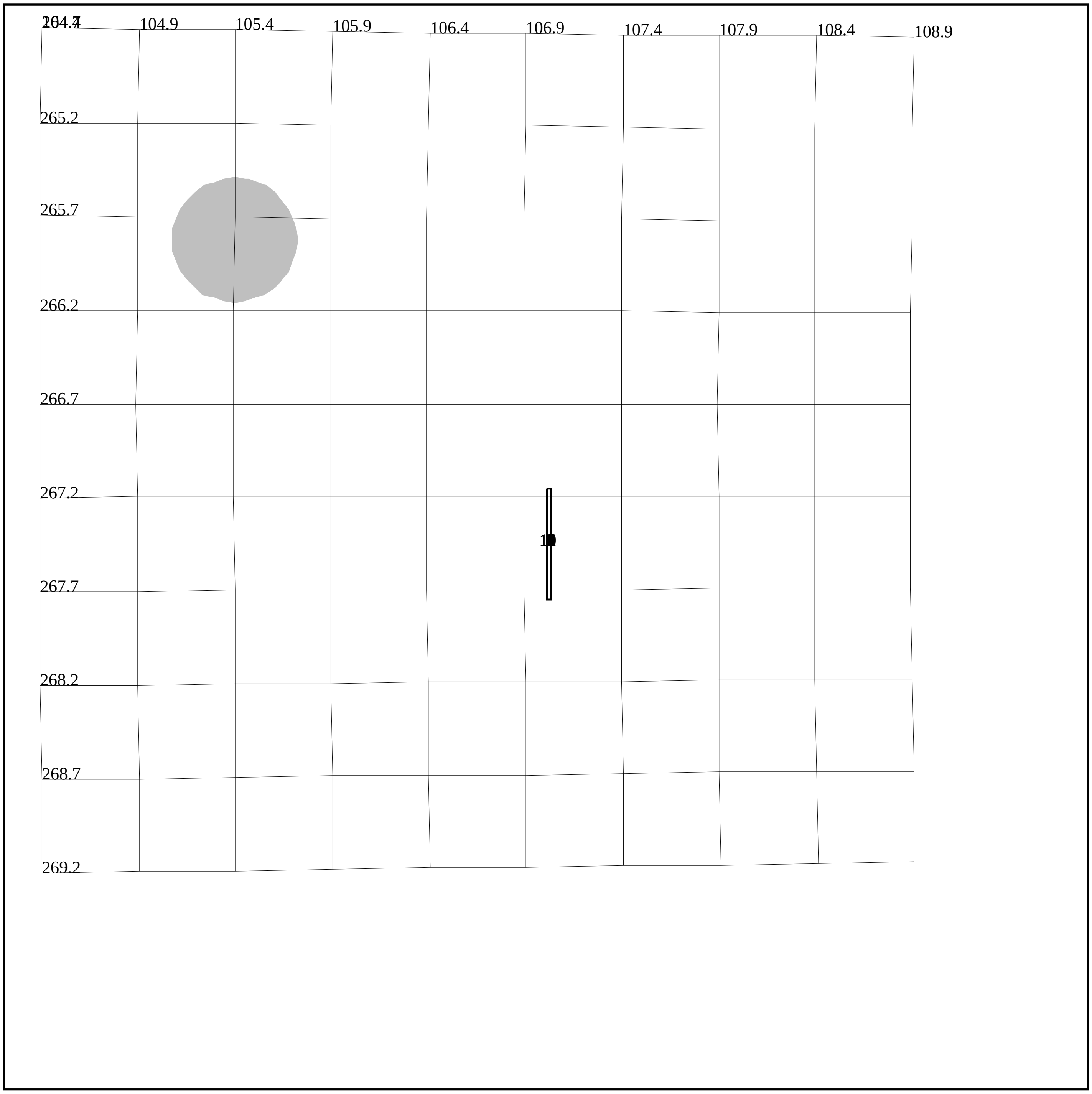
Data Returned

Design Detail

Continuous slew, full disk mosaic at Callisto closest approach.
Cover all lit longitudes and latitudes. Observation contains two swaths.
Instrument mode: Long Map
Instrument gain state: 2
Phase angle: 62.8 degrees
Cone angle: 107.74 degrees
Spatial resolution: 211.3 km/nimsel
Spectral resolution: 408 wavelengths
Coverage in nimsels: 18X24 nimsels
Nyquist ~20% overlap

Long Map (LM), Gain 4, Grating Start 0, MPW, G2CLM442, G2CLM408

Galileo Activity Plan Form   06/17/96 12:41:06   rev 6/95



165EM:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=51/2377 TC= 2(107 267.5)
A= 718 pD= 0 SR=17.430 RA50=351.40 DEC50= -3.36 cone=107.00 clock=267.50

G2HNDARK__06

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2HNDARK__06

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS: **THINNING:NIM 1**

START:GEE 96-250/19:00:09.333 +CDS 3791:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:G2HNDARK__06 **DESCRIP:DARK SKY 06**

DARK SKY		ACTIVITY ID:	G2HNDARK 06-
		START TIME:	96-253/10:49:13.999

Activity ID: Orbit G2 Target H Inst N OAPEL DARK SeqNo 06 -

Title	DARK SKY			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2B Calendar Date 09/09/96 Week 37

Start	GEE+CDS 3787:00:0	96-253/10:49:13.999	GEE+002/15:49:04.666
End	GEE+CDS 3794:00:0	96-253/10:56:18.666	GEE+002/15:56:09.333
Duration	7:00:0	000/00:07:04.667	000/00:07:04.667

Top Label G2HNDARK 06-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	147	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	Yes

Observation Objective

Collect Dark Values for calibration purposes.

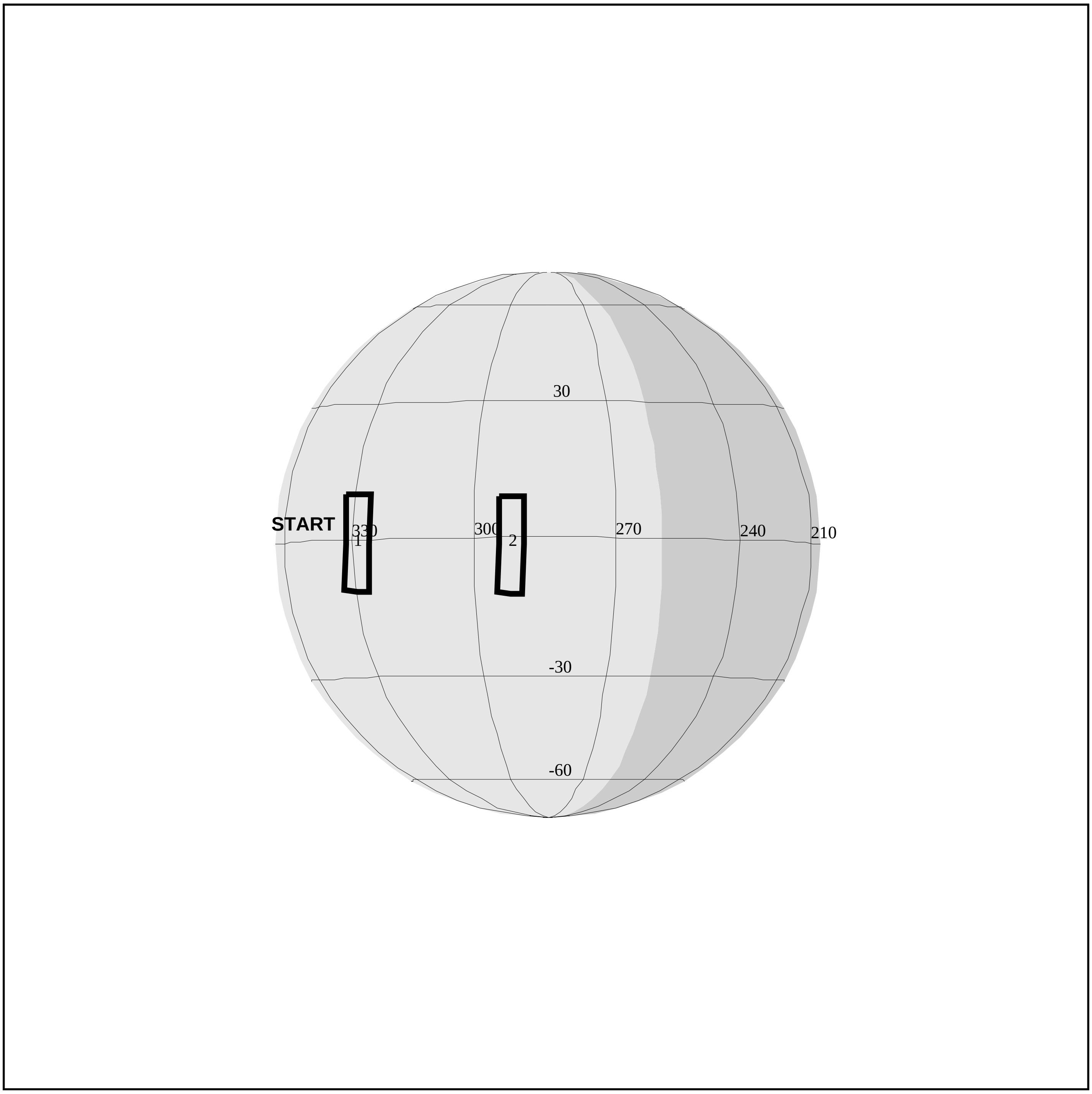
Data Returned

Design Detail

Slew to dark space and record 1 Rim of dark values.
Long Map
Gain State 2

Long Map (LM), Gain 4, Grating Start 0, LPU, G2DRK34, G2DRK34

Galileo Activity Plan Form 06/17/96 12:41:06 rev 6/95



165ET:TT= 0 TMC= 1 C= -4.20 XC= 0.00 BS= 0/4197 TC= 3
A= 728 pD= 0 SR=17.430 RA50=353.07 DEC50= -0.82 cone=104.40 clock=265.86
117ET:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4197
1:#s= 1 Cs= 3.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

G2CNCALLRT01

TARGET G1.0 lisac: 7/25/1996 12:44:31

FILE:P.G2CNCALLRT01

TARGET BODY : CALLISTO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-960628-TOUR.NS

PERIAPSIS:

START:CEE 96-253/10:23:57.133 +CDS 39:00:0

OBSERVATION:G2CNCALLRT01

THINNING:NIM 7

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.500

DESCRIP:G2CNCALLRT01

CNCALLRT01	ACTIVITY ID: G2CNCALLRT01- START TIME: 96-253/10:59:20.466

Activity ID: Orbit G2 Target C Inst N OAPEL CALLRT SeqNo 01 -

Title	CNCALLRT01			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2B Calendar Date 09/09/96 Week 37

Start	CEE+CDS 35:00:0	96-253/10:59:20.466	CEE+000/00:35:23.333
End	CEE+CDS 41:00:0	96-253/11:05:24.466	CEE+000/00:41:27.333
Duration	6:00:0	000/00:06:04.000	000/00:06:04.000

Top Label G2CNCALLRT 01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	174	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

Real time observation to obtain spectra of Callisto's trailing side in full NIMS spectral resolution. This observation is the first 408 wavelength observation of Callisto in the Jupiter tour. While the observation will give valuable information about surface composition, the data will be used to aid in determining which wavelengths to return during playback.

Data Returned

Design Detail

Target to body center,
Instrument in Long Map mode, Gain State 4,
Mirror Blocked to center mirror postitions 8 - 11.
CALM408-ETB.
Observation planned for 5 rims, but RT select to be based on modelling results
Only the first 12 mf per Rims is returned.
CSMOS at slowest scan rate to construct a real time map.

Mirror Blocked (1B,1B) (11011,11011)
2 Rims returned (2 grating cycles)

Long Map (LM), Gain 4, Grating Start 0, R/T, G2CLM442

Galileo Activity Plan Form 06/17/96 12:41:06 rev 6/95

Turn NIMS chopper off	ACTIVITY ID: G2NNCHOPOF01- START TIME: 96-253/11:06:25.133

Activity ID: Orbit G2 Target N Inst N OAPEL CHOPOF SeqNo 01 -

Title	Turn NIMS chopper off			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2B Calendar Date 09/09/96 Week 37

Start	CEE+CDS 42:00:0	96-253/11:06:25.133	CEE+000/00:42:28.000
End	CEE+CDS 52:00:0	96-253/11:16:31.799	CEE+000/00:52:34.666
Duration	10:00:0	000/00:10:06.666	000/00:10:06.666

Top Label
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	52	Report Options	BOTH	Scan Platform	No
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

To preserve the NIMS chopper life.

Design Detail

Use a NIMSTAB PA to reset wavelength table with parameters 04,C4,02,00,00 and to issue a 37IOP,0,0 to put NIMS in safe.
Then:
Use two NIMS 37IST commands to turn chopper off:
37IST,0,1,0,0,OFF,0,0,0 (Change Chopper Ref to 63Hz)
37IST,0,1,1,0,OFF,0,0,0 (CHANGE CHOPPER 63HZ TO OFF).
Also, use a NIMS 37MB command to reset the mirror positions:
37MB,0,0,0,0,0,0 (00000,00000)

Galileo Activity Plan Form 06/17/96 12:41:06 rev 6/95

NIMS SHD FLSH OFF FOR PCT CAL	ACTIVITY ID: G2NNSHDOFF01- START TIME: 96-254/13:35:00.334

Activity ID: Orbit G2 Target N Inst N OAPEL SHDOFF SeqNo 01 -

Title	NIMS SHD FLSH OFF FOR PCT CAL			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2B	Calendar Date	09/10/96	Week	37

Start	RTA-CDS 2562:79:0	96-254/13:35:00.334	RTA-001/19:11:20.666
End	RTA-CDS 22:00:0	96-256/08:24:06.334	RTA-000/00:22:14.666
Duration	2540:79:0	001/18:49:06.000	001/18:49:06.000

Top Label	G2NNSHDOFF01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

To turn off NIMS shield flash heater at least 48 hours before the RCT calibration.

Design Detail

Need comment PA in OPALE to be expanded in the OAP process.

Galileo Activity Plan Form   06/17/96 12:41:06   rev 6/95

NIMS RT RCT Calibration ACTIVITY ID: G2NNRCTRLT01-
START TIME: 96-256/08:24:06.334

Activity ID: Orbit G2 Target N Inst N OAPEL RCTRLT SeqNo 01 -

Title	NIMS RT RCT Calibration			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2B Calendar Date 09/12/96 Week 37

Start	RTA-CDS	22:00:0	96-256/08:24:06.334	RTA-000/00:22:14.666
End	RTA+CDS	765:00:0	96-256/21:39:51.000	RTA+000/12:53:30.000
Duration		787:00:0	000/13:15:44.666	000/13:15:44.666

Top Label G2NNRCTRLT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	499	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
The data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real Time Telemetry.
This calibration will take place after the OTM.

Data Returned

Design Detail

This is a Library Sequence.
The Dark cone angle must be selected using Pointer.
1) Turn on RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference,
   Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone= 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T
8) Selw to Safe (cone=153.0)
9) Set NIMS to Safe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

Long Map (LM), Gain 1, Grating Start 0, R/T, G2RCT252

Galileo Activity Plan Form 06/17/96 12:41:06 rev 6/95

NIMS SHD FLSH OFF/PCT HTRS ON		ACTIVITY ID:	G2NNSHDOFF02-
		START TIME:	96-286/15:22:24.000

Activity ID: Orbit G2 Target N Inst N OAPEL SHDOFF SeqNo 02 -

Title	NIMS SHD FLSH OFF/PCT HTRS ON			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	G2C	Calendar Date	10/12/96	Week	41

Start	RTB-CDS 2200:00:0	96-286/15:22:24.000	RTB-001/13:04:26.666
End	RTB-CDS 22:00:0	96-288/04:04:36.000	RTB-000/00:22:14.666
Duration	2178:00:0	001/12:42:12.000	001/12:42:12.000

Top Label	G2NNSHDOFF02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	No
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

To turn off NIMS shield flash heater 48 hours before the RCT calibration

Design Detail

Need comment PA in OAPEL to be expanded in the OAP process.

Galileo Activity Plan Form   06/17/96 12:41:06   rev 6/95

NIMS RT RCT Calibration	ACTIVITY ID: G2NNRCTRLT02- START TIME: 96-287/18:05:00.667

Activity ID: Orbit G2 Target N Inst N OAPEL RCTRLT SeqNo 02 -

Title	NIMS RT RCT Calibration			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2C Calendar Date 10/13/96 Week 41

Start	RTB-CDS 22:00:0	96-287/18:05:00.667	RTB-000/00:22:14.666
End	RTB+CDS 00000765:00:0	96-288/07:20:45.333	RTB+000/12:53:30.000
Duration	00000787:00:0	000/13:15:44.666	000/13:15:44.666

Top Label G2NNRCTRLT02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	499	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
The data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real Time Telemetry.
This calibration will take place after Apojove.

Design Detail

This is a Library Sequence.
The Dark cone angle must be selected using Pointer.

1) Turn on RCT Heaters for 12 hours.
2) Set Engineering Variable Map to return NIMS Temps more frequently.
3) Set NIMS to Long Map Mode, Gain state 1, Chopper Reference, Mirror Blocking (11011,11011), ETB=RCT252.
4) Pause playback before using scan platform.
5) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T
6) Slew to RCT (cone= 0.0), return 2 grating cycles (12 mf) in R/T
7) Slew to Dark (cone=119.7), return 1 grating cycle (12 mf) in R/T
8) Selw to Safe (cone=153.0)
9) Set NIMS to Safe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

Long Map (LM), Gain 1, Grating Start 0, R/T, G2RCT252

Galileo Activity Plan Form 08/21/96 16:14:20 rev 6/95

OPCAL	ACTIVITY ID: G2NNOPCAL 02- START TIME: 96-300/09:57:23.999

Activity ID: Orbit G2 Target N Inst N OAPEL OPCAL SeqNo 02 -

Title	OPCAL			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID G2C Calendar Date 10/26/96 Week 43

Start	GEE+CDS 00070672:00:0	96-300/09:57:23.999	GEE+049/14:57:14.666
End	GEE+CDS 00070700:00:0	96-300/10:25:42.666	GEE+049/15:25:33.333
Duration	00000028:00:0	000/00:28:18.667	000/00:28:18.667

Top Label G2NNOPCAL 02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To perform an Optical Calibration of the NIMS instrument

Design Detail

Long Map
Gain State 4
Mirror Block 1B,1B (11011,11011) (select mirror positions 8-11)
ETB selects Detectors 1 and 2 only.
NIMS is selected in Real Time for 12 mf.
Only one Long Map grating cycle is returned.

Long Map (LM), Gain 4, Grating Start 0, R/T, G2OPCAL48

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