Chapter 5 - Detailed Observation Designs

<u>Contents</u>

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 ON	ACTIVITY ID:	C3NNCHOPON01-
	START TIME:	96-307/21:57:01.000

Activity ID: Orbit C3 Target N Inst N OAPEL CHOPON SeqNo 01 -

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

Time System CDS Load ID C3A Calendar Date 11/02/96 Week 44

Start	CEE-CDS	00002347:00:0	96-307/21:57:01.000	CEE-001/15:33:04.666
End	CEE-CDS	00002341:00:0	96-307/22:03:05.000	CEE-001/15:27:00.666
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label C3NNCHOPON01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	50	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

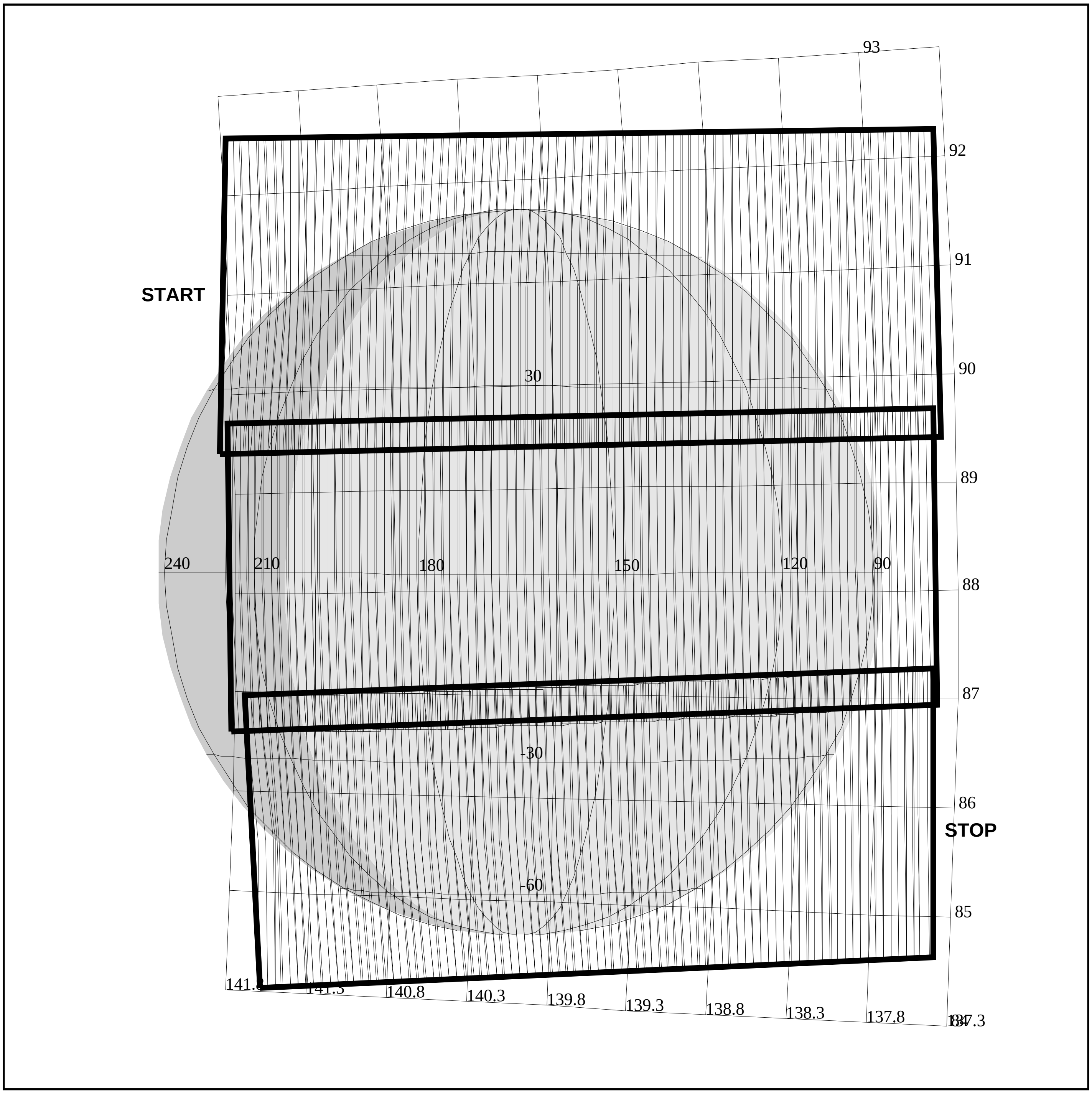
Configure the NIMS instrument in preparation for C3 orbit data taking. This orbit includes observations of Jupiter, Io, Callisto, Europa and the rings.

Design Detail

Use NIMSINIT with the following commands:

```
37IST,1,0,0,OFF,0,0,0;     Chopper 63 Hz
37IST,1,2,0,OFF,0,0,0;     Chopper Reference
```

Galileo Activity Plan Form 09/12/96 16:57:33 rev 6/95



165DA:TT=   0 TMC= 1 C=   9.00 XC=   9.00 BS= 0/5725 TC= 3
A= 728 pD=   0 SR=17.450 RA50=237.20 DEC50=-21.30 cone=138.10 clock= 89.77
117DA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5725
1:#s= 3 Cs= -22.00 XCs=   0.00 Cr=   22.50 XCr=   -9.00 sD= 2208 rD=   22

C3CNGLOBAL01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3CNGLOBAL01

TARGET BODY :   CALLISTO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM   1

START:CEE 96-309/13:30:05.733   -CDS 440:00:0

BODY PLOT TIME:96-309/11:23:27   D=   0 S= 0.700

OBSERVATION:C3CNGLOBAL01

DESCRIP:C3 Callisto Global Mosaic #1

CALLISTO GLOBAL MOSAIC — ACTIVITY ID: C3CNGLOBAL01-
START TIME: 96-309/06:01:09.666

Activity ID: Orbit C3 Target C Inst N OAPEL GLOBAL SeqNo 01 -

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

Time System	CDS	Load ID	C3A	Calendar Date	11/04/96	Week	45

Start	CEE-CDS	00000444:00:0	96-309/06:01:09.666	CEE-000/07:28:56.000
End	CEE-CDS	00000402:00:0	96-309/06:43:37.666	CEE-000/06:46:28.000
Duration		00000042:00:0	000/00:42:28.000	000/00:42:28.000

Top Label C3CNGLOBAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	208	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

The objective is to obtain the best combined high spectral and spatial resolution over all latitudes, to investigate the surface mineralogy, and to determine the distribution of compositional units. Callisto has never been observed at this close range of 103 km/nimsel by an instrument of NIMS capability.

This is the third in a series of global observations to be included in Galileo’s Jovian tour.

Data Returned

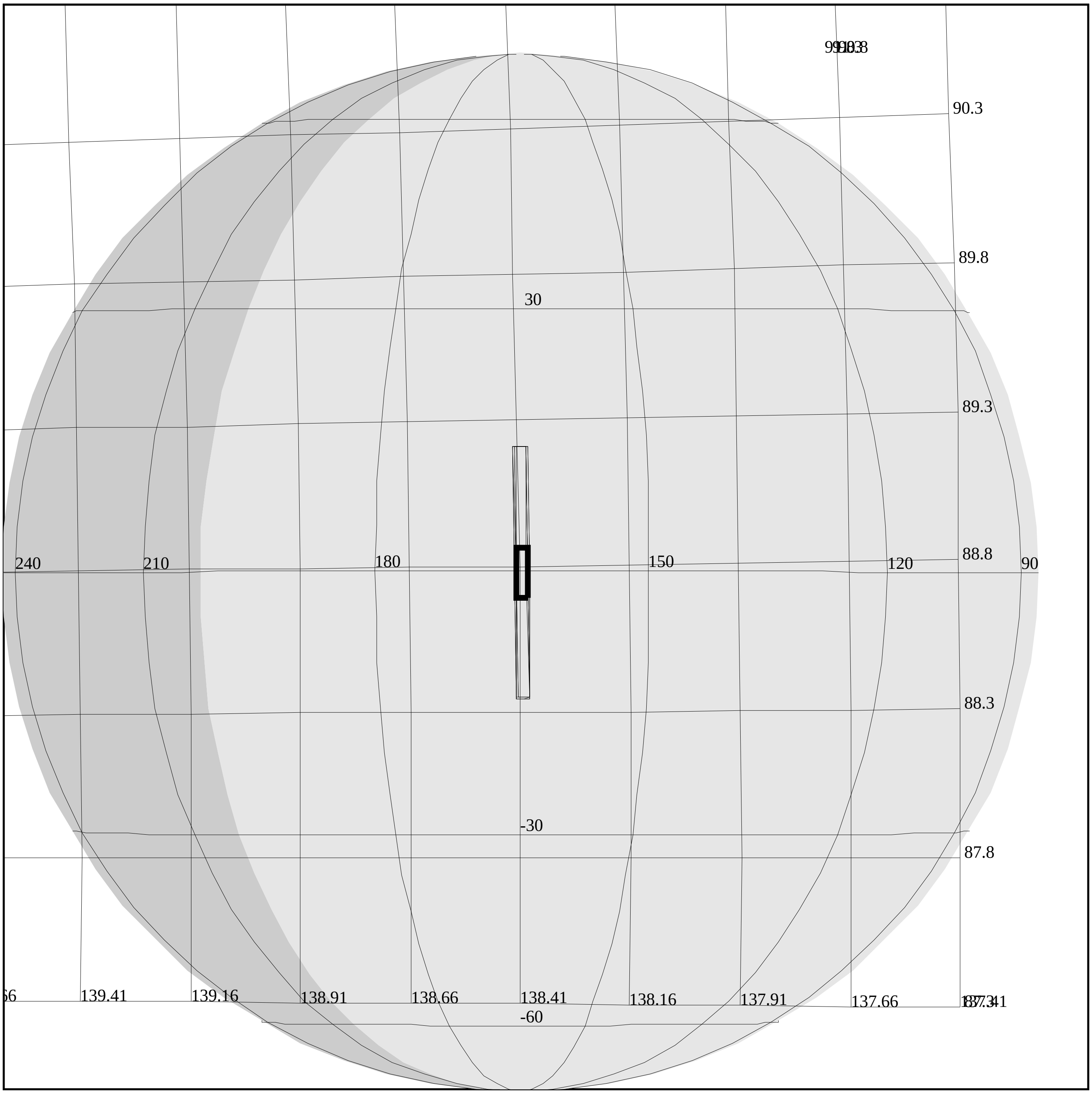
Design Detail

Instrument mode: Long Map
Instrument gain state: 4
Spatial resolution: 103.4 - 94.8 km/nimsel
Phase angle: 52.91 - 54.15 degrees
Spectral resolutiin: 204 wavelengths
Coverage in nimsels:

Continuous slew mosaic covering all lit longitudes and latitudes at 7.4 hrs prior to C/A. 10% overlap, Nyquist sampling 3 swaths to cover lit surface.

Long Map (LM), Gain 4, Grating Start 0, LPU, CLM245, CLM204

Galileo Activity Plan Form — 09/12/96 16:57:34 rev 6/95



165EX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/1215 TC= 3
A= 364 pD= 0 SR=17.450 RA50=237.34 DEC50=-22.03 cone=138.41 clock= 88.75

C3CNCALLRT02

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3CNCALLRT02

TARGET BODY : CALLISTO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 1**

START:CEE 96-309/13:30:05.733 -CDS 245:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C3CNCALLRT02 **DESCRIP:Callisto Real Time Observation**

Callisto Real Time Observation	ACTIVITY ID: C3CNCALLRT02- START TIME: 96-309/09:20:21.000

Activity ID: Orbit C3 Target C Inst N OAPEL CALLRT SeqNo 02 -

Title	Callisto Real Time Observation			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	11/04/96	Week	45

Start	CEE-CDS	00000247:00:0	96-309/09:20:21.000	CEE-000/04:09:44.666
End	CEE-CDS	00000243:00:0	96-309/09:24:23.666	CEE-000/04:05:42.000
Duration		00000004:00:0	000/00:04:02.666	000/00:04:02.666

Top Label	C3CNCALLRT02-
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

This observation is required to provide spectral information in conjunction with SSI Asgard observation. NIMS mode LM, mirror block, 408 wavelengths.

Data Returned

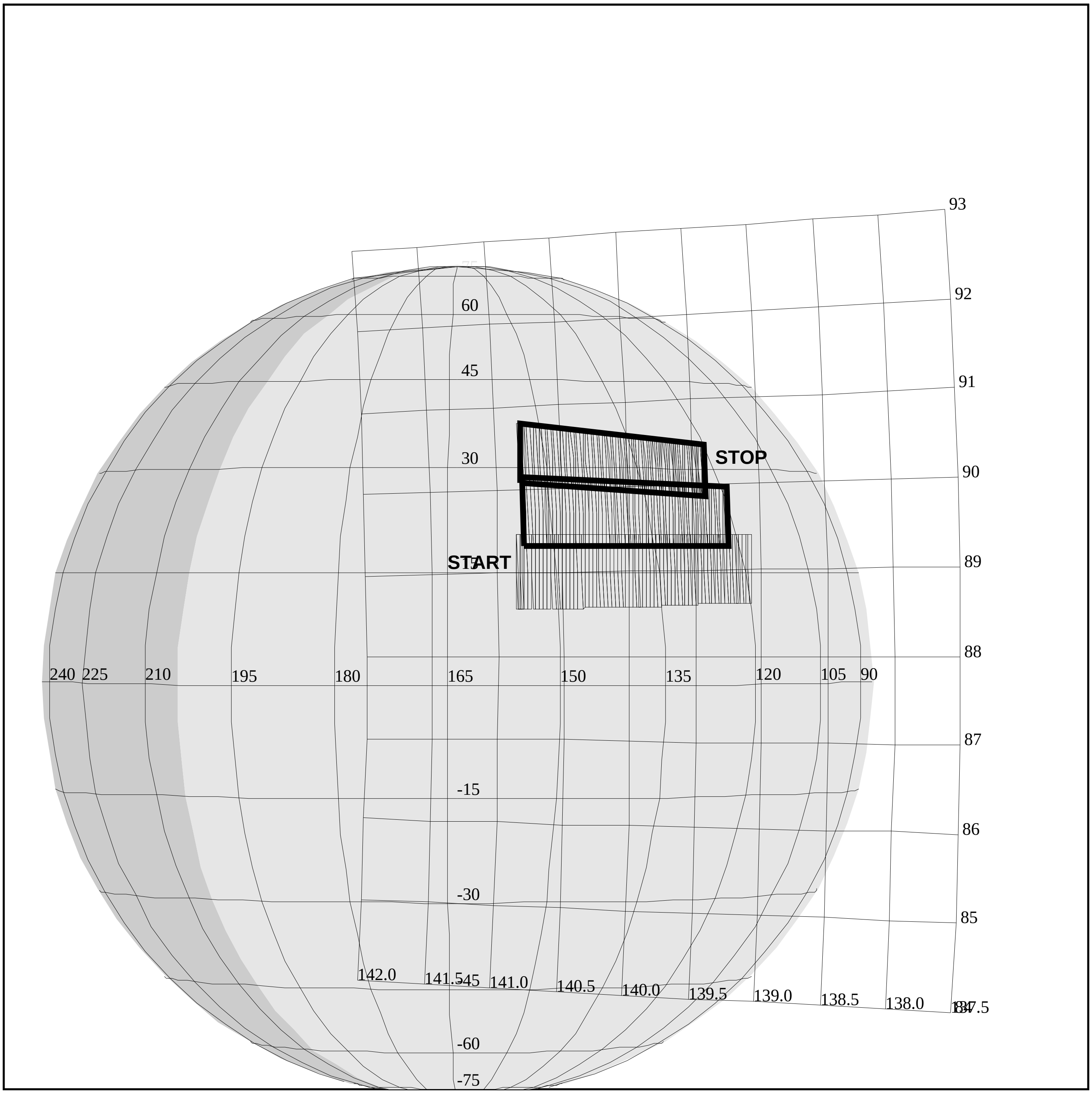
Design Detail

Target to center of Disk.

Mirror Blocked (1B,1B) (11011,11011)
2 Rims

Long Map (LM), Gain 4, Grating Start 0, RT , RT408

Galileo Activity Plan Form 09/12/96 16:57:34 rev 6/95



165DB:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=38/9607 TC= 1(+15 155)
A= 728 pD= 5288 SR=17.450 RA50=239.95 DEC50=-22.42 cone=140.84 clock= 89.01
117DB:#SB= 2 OR= 0.060 RR=12.000 BM=F RC= 1 BS=38/9607
1:#s= 2 Cs= -34.00 XCs= 0.00 Cr= 33.50 XCr= 9.00 sD= 1710 rD= 22
2:#s= 1 Cs= -36.30 XCs= 0.00 Cr= 34.50 XCr= 11.00 sD= 1824 rD= 22

C3CNASGARD01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3CNASGARD01

TARGET BODY : CALLISTO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:CTE 96-309/13:34:08.400 -CDS 93:00:0

OBSERVATION:C3CNASGARD01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 5288 S= 0.800

DESCRIP:C3 Asgard Basin Mosaic

ASGARD BASIN COVERAGE | **ACTIVITY ID: C3CNASGARD01-**
START TIME: 96-309/11:59:05.666

Activity ID: Orbit C3 Target C Inst N OAPEL ASGARD SeqNo 01 -

Title	ASGARD BASIN COVERAGE			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/04/96	Week	45

Start	CTE-CDS	00000090:00:0	96-309/11:59:05.666	CTE-000/01:31:00.000
End	CTE-CDS	00000060:45:0	96-309/12:28:55.666	CTE-000/01:01:10.000
Duration		00000029:46:0	000/00:29:50.000	000/00:29:50.000

Top Label	C3CNASGARD01-
Bottom Label	

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

Observation Objective

The Asgard Multi-ring structure is the second largest such feature on Callisto's surface as observed by Voyager. Asgard's rings and palimpsest may hold the answers to the composition of Callisto's subsurface material.

The objective is to determine the composition and albedo of Asgard's palimpsest and individual rings/ridges, at high spectral resolution, define compositional differences of center palimpsest versus rings.

Data Returned

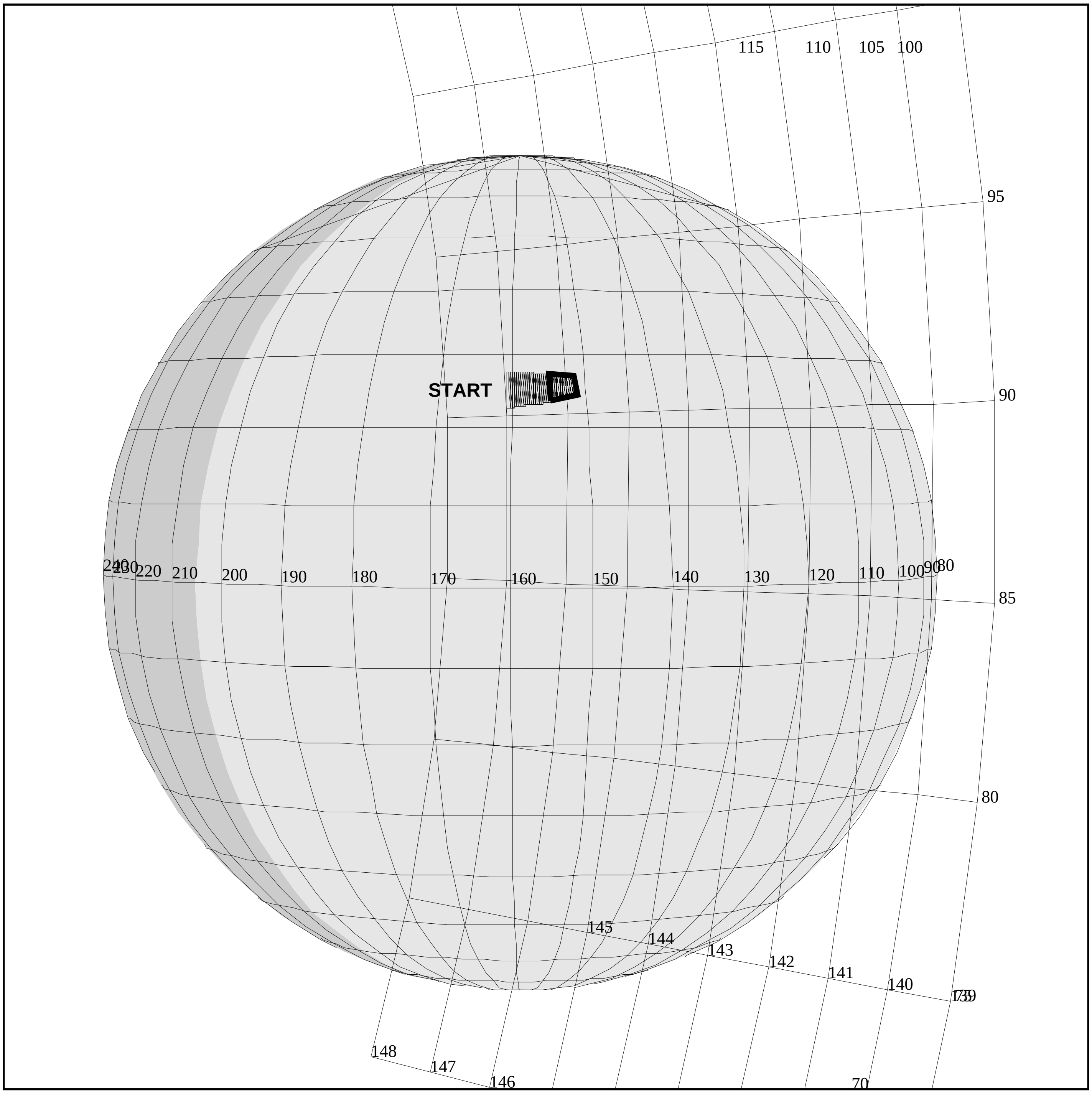
Design Detail

Instrument mode: Full Map
Instrument gain state: 4
Spectral resolution: 102 wavelengths
Spatial resolution: 20.04 km/nimsel
Phase angle: 50.10 degrees
Coverage in nimsels: 30 degrees square 810X949.9 km
Continuous mosaic of the entire Asgard area.
3 swaths across the area.
Tracks: 0.056

Only Swaths 2 and 3 Returned.

Full Map (FM), Gain 4, Grating Start 0, LPU, CFM126, CFM102

Galileo Activity Plan Form 09/12/96 16:57:34 rev 6/95



165DC:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=31/8889 TC= 1(+25 160)
A= 388 pD= 4104 SR=17.450 RA50=246.61 DEC50=-22.64 cone=146.91 clock= 90.81
117DC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS=31/8889
1:#s= 1 Cs= -40.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 4104 rD= 2

C3CNARINGS01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3CNARINGS01

TARGET BODY : CALLISTO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:CTE 96-309/13:34:08.400 -CDS 42:00:0

OBSERVATION:C3CNARINGS01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 4104 S= 0.800

DESCRIP:C3 Callisto Multi-Ring Structure

CALLISTO MULTI-RING STRUCTURE COVERAGE ACTIVITY ID: C3CNARINGS01-
START TIME: 96-309/12:47:37.666

Activity ID: Orbit C3 Target C Inst N OAPEL ARINGS SeqNo 01 -

Title	CALLISTO MULTI-RING STRUCTURE COVERAGE	Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA Team NIMS	Working Group	SWG

Time System CDS Load ID C3A Calendar Date 11/04/96 Week 45

Start	CTE-CDS	00000042:00:0	96-309/12:47:37.666	CTE-000/00:42:28.000
End	CTE-CDS	00000019:00:0	96-309/13:10:53.000	CTE-000/00:19:12.666
Duration		00000023:00:0	000/00:23:15.334	000/00:23:15.334

Top Label C3CNARINGS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	191	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

This observation, in conjuction with the NIMS observation of ASGARD basin and ring structure, will provide a study of the compositional differences between the palimpsest and the rings. NIMS will obtain high spectral (204 wavelengths) and spatial resolution (9 km) of Asgard's palimpsest and rings and define minor constituents.

Data Returned

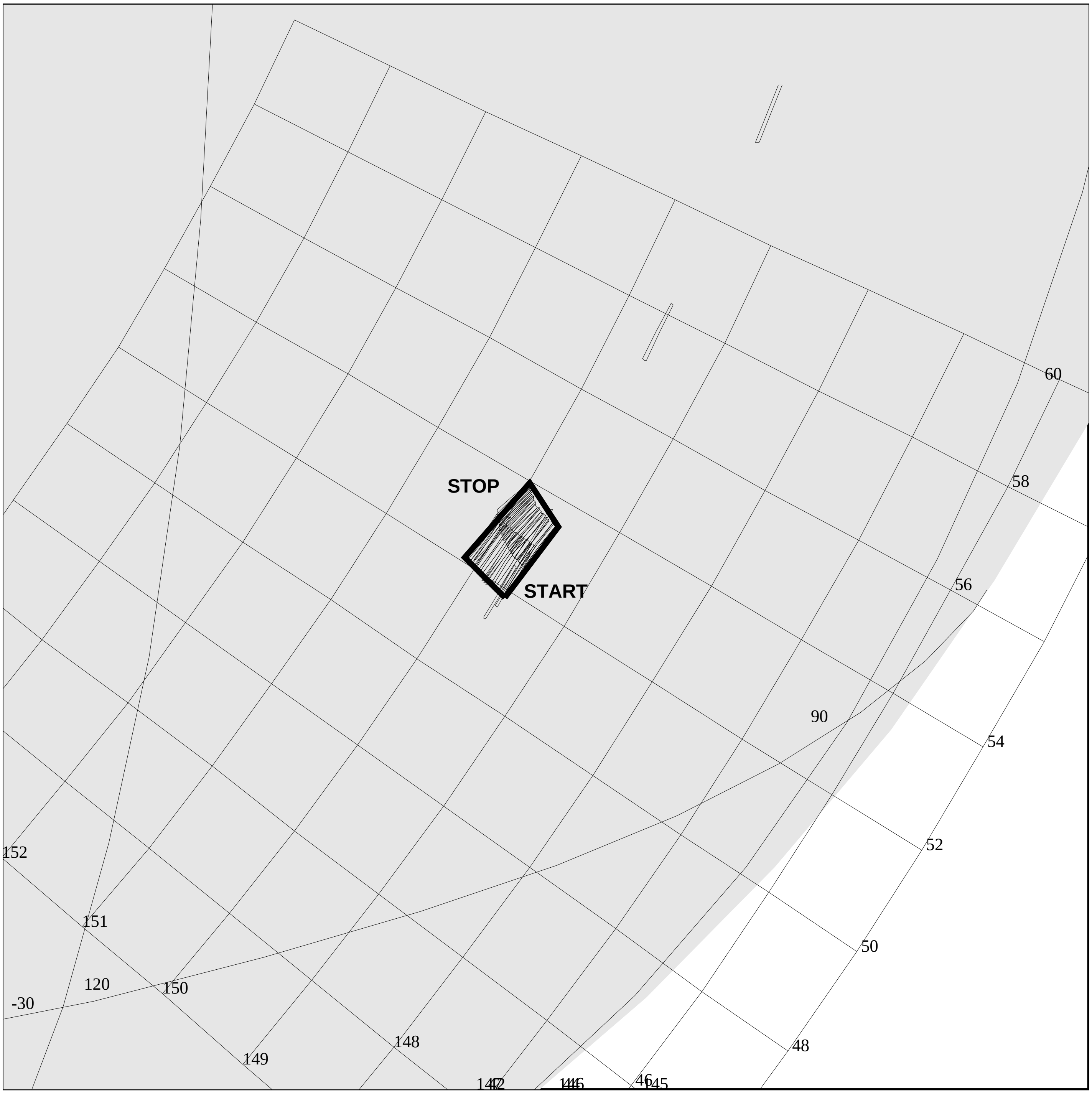
Design Detail

Instrument mode: Long Map
Instrument gain state: 4
Spatial resolution: 8.96 km/nimsel
Spectral resoluton: 204 wavelengths
Phase angle: 44.15 degrees
Coverage in nimsels: 500 km X 184 km
One swath across Asgard basin area, encompassing all 500 km in Long Map mode. Tracks: 0.052

Partial Swath Returned.

Long Map (LM), Gain 4, Grating Start 0, LPU, CLM245, CLM204

Galileo Activity Plan Form 09/12/96 16:57:35 rev 6/95



165DD:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS=55/4167 TC= 1(-20 110)
A= 102 pD= 666 SR=17.450 RA50=252.32 DEC50=-42.15 cone=149.62 clock= 52.42
117DD:#SB= 2 OR= 0.110 RR=12.000 BM=F RC= 1 BS=55/4167
1:#s= 1 Cs= 10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 262 rD= 2
2:#s= 1 Cs= 14.00 XCs= 0.00 Cr= -10.00 XCr= 6.00 sD= 356 rD= 32

C3CNCRATER01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3CNCRATER01

TARGET BODY : CALLISTO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:CTE 96-309/13:34:08.400 -CDS 13:00:0

OBSERVATION:C3CNCRATER01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 666 S= 4.000

DESCRIP:CENTRAL PIT CRATER

BURR - CENTRAL PIT CRATER

ACTIVITY ID: C3CNCRATER01-
START TIME: 96-309/13:16:57.000

Activity ID: Orbit C3 Target C Inst N OAPEL CRATER SeqNo 01 -

Title	BURR - CENTRAL PIT CRATER			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System CDS Load ID C3A Calendar Date 11/04/96 Week 45

Start	CTE-CDS	00000013:00:0	96-309/13:16:57.000	CTE-000/00:13:08.666
End	CTE-CDS	00000006:45:0	96-309/13:23:31.666	CTE-000/00:06:34.000
Duration		00000006:46:0	000/00:06:34.666	000/00:06:34.666

Top Label C3CNCRATER01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	142	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

NIMS will obtain high spectral, high spatial data on one of Callisto’s central pit craters and its dome. The objective of this observation is to determine origin and/or composition of dome material and surrounding surface area.

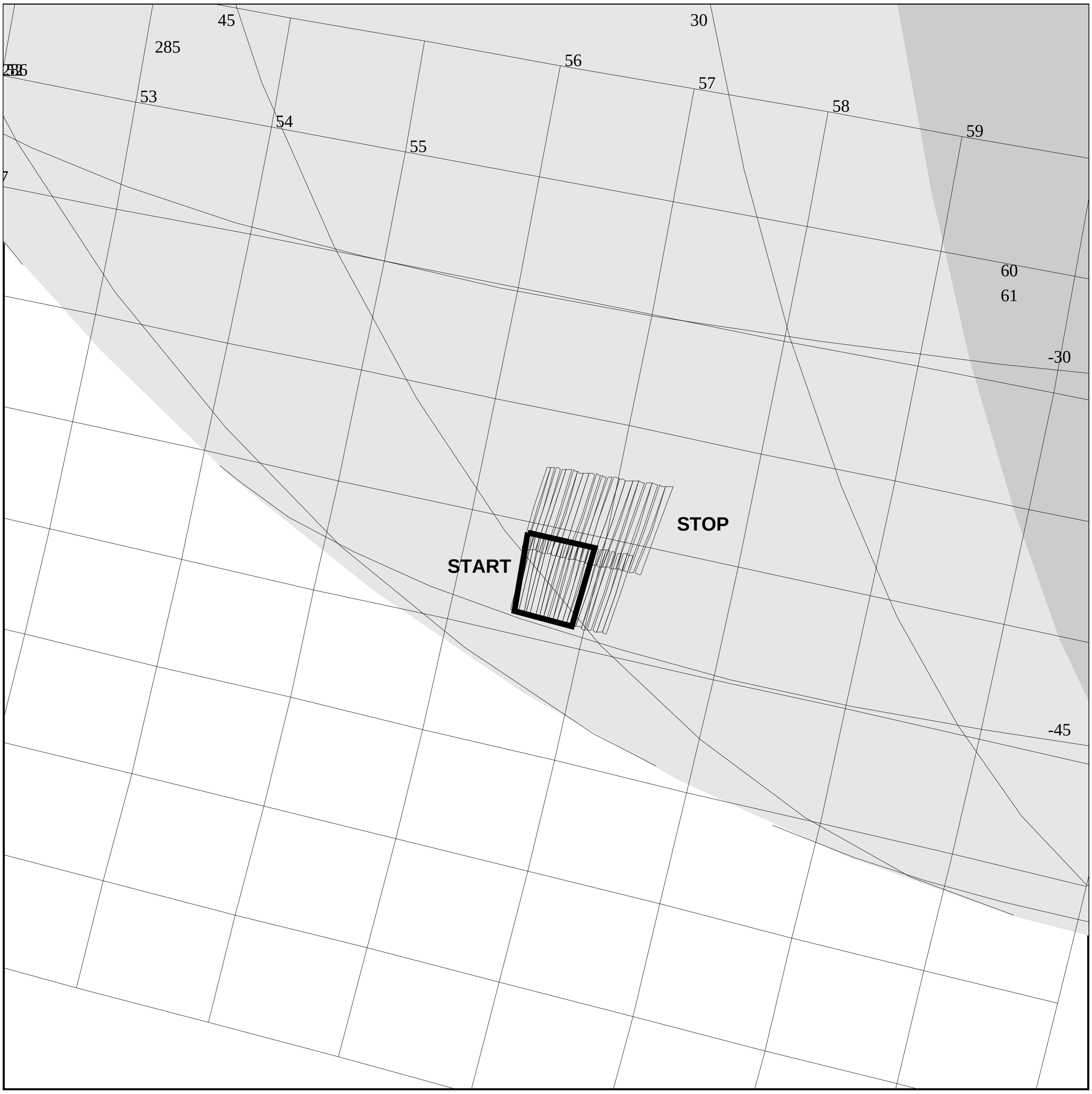
Data Returned

Design Detail

Instrument mode: Short map
Instrument gain state: 4
Spatial resolution: 2.36 km/nimsel
Spectral resolution: 102 wavelengths
Phase Angle: 27.18 degrees
Coverage in nimsels: 81 x 200.8 km
Continuous slew mosaic of Burr - Central Pit Crater located at 38 degrees North latitude and 135 degrees longitude.
Requires 2 swaths
Nyquist sampling / 20% overlap. Tracks: 0.028

Short Map (SM), Gain 4, Grating Start 1, MPW, CSM119, CSM102

Galileo Activity Plan Form 09/12/96 16:57:35 rev 6/95



165DE:TT=   0 TMC= 1 C=   0.00 XC=   0.00 BS= 0/9809 TC= 1(-42   46   )
A= 148 pD= 1086 SR=17.450 RA50= 49.16 DEC50= 2.14 cone= 56.45 clock=289.46
117DE:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/9809
1:#s= 2 Cs=   10.40 XCs=   0.00 Cr= -11.00 XCr=   -8.00 sD=   526 rD=   34

C3CNCSPOTS01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3CNCSPOTS01

TARGET BODY :   CALLISTO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:CTE 96-309/13:34:08.400   +CDS 18:00:0

OBSERVATION:C3CNCSPOTS01

THINNING:NIM   2

BODY PLOT TIME:TARGET-TIME D= 1086 S= 4.000

DESCRIP:CALLISTO BRIGHT SPOTS

CALLISTO BRIGHT SPOTS — **ACTIVITY ID: C3CNCSPOTS01-**
START TIME: 96-309/13:47:16.999

Activity ID: Orbit C3 Target C Inst N OAPEL CSPOTS SeqNo 01 -

Title	CALLISTO BRIGHT SPOTS			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/04/96	Week	45

Start	CTE+CDS	00000017:00:0	96-309/13:47:16.999	CTE+000/00:17:11.333
End	CTE+CDS	00000024:00:0	96-309/13:54:21.666	CTE+000/00:24:16.000
Duration		00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	C3CNCSPOTS01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	118	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

NIMS will obtain high spectral, high spatial resolution data to define/determine high albedo/bright spot composition of one of the 15 known palimpsests on Callisto. The Crater is 93 km in diameter. The objective is to determine and define compositional differences between the crater itself and surrounding surface areas.

Data Returned

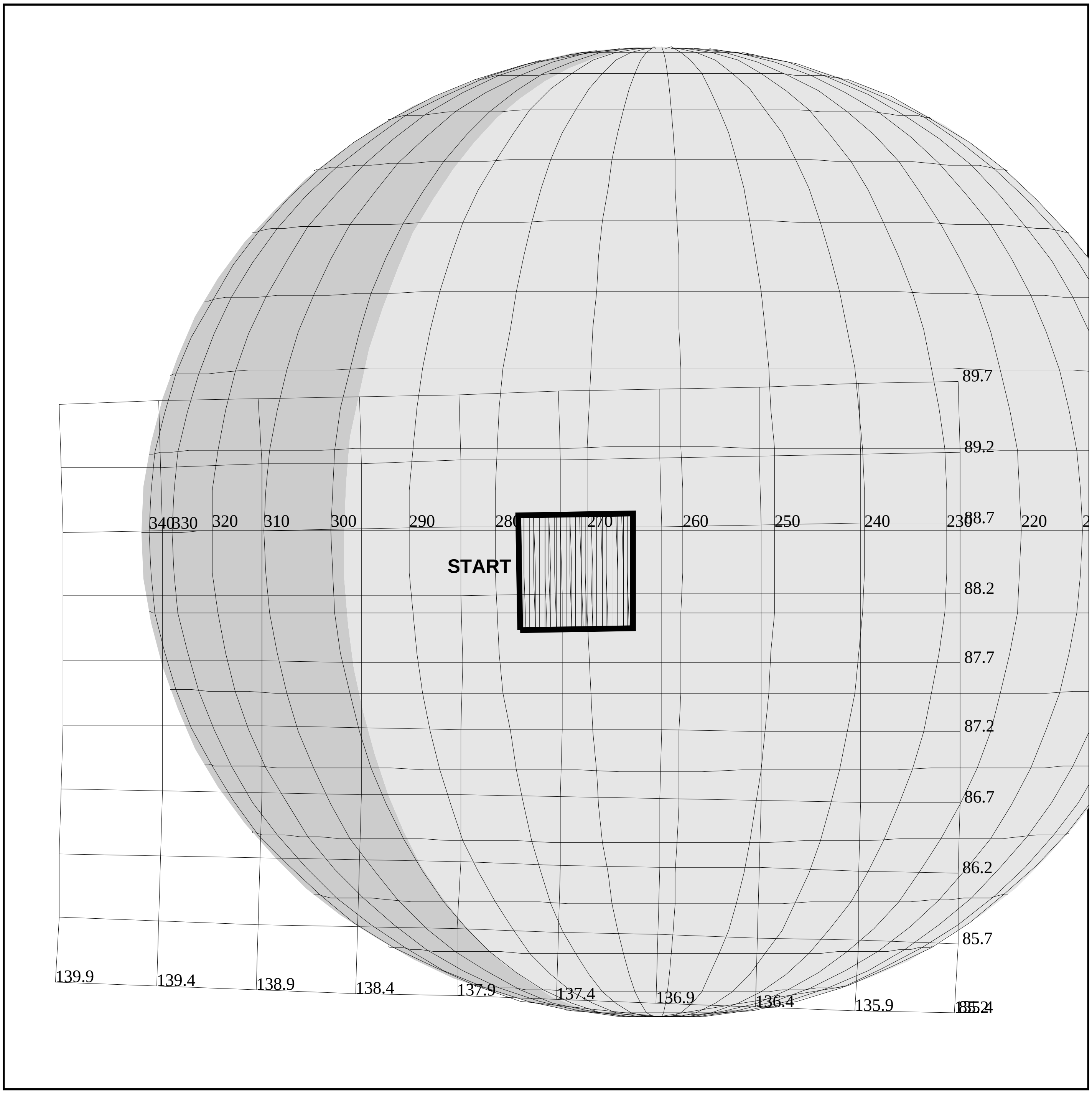
Design Detail

Instrument mode: Full Map
Instrument gain state: 4
Spatial resolution: 1.364 km/nimsel
Spectral resolution: 17 wavelengths
Phase angle: 86.44 degrees
Coverage in nimsels: 93 km x 27 km
Tracks: 0.012
Continuous scan of specified area in full map to achieve highest spatial resolution possible.

Part of Swath 1 Returned.

Full Map (FM), Gain 4, Grating Start 0, LPU, CFM221, CFM103

Galileo Activity Plan Form   09/12/96 16:57:35   rev 6/95



165DF:TT= 0 TMC= 1 C= 5.00 XC= 0.00 BS= 0/2285 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50=236.48 DEC50=-22.09 cone=137.64 clock= 88.39
117DF:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/2285
1:#s= 1 Cs= -10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 308 rD= 2

C3JNFEA05101

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA05101

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTA 96-310/11:04:19.000 -CDS 640:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C3JNFEA05101 **DESCRIP:Jupiter Campaign Feature 51deg 1**

JUPITER CAMPAIGN FEATURE 51 DEG PART 1	ACTIVITY ID: C3JNFEA05101- START TIME: 96-310/00:13:09.667

Activity ID: Orbit C3 Target J Inst N OAPEL FEA051 SeqNo 01 -

Title	JUPITER CAMPAIGN FEATURE 51 DEG PART 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID C3A Calendar Date 11/05/96 Week 45

Start	JTA-CDS	00000644:00:0	96-310/00:13:09.667	JTA-000/10:51:09.333
End	JTA-CDS	00000638:06:0	96-310/00:19:09.667	JTA-000/10:45:09.333
Duration		00000005:85:0	000/00:06:00.000	000/00:06:00.000

Top Label C3JNFEA05101-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. This is the first observation obtained on a rotation during phase angle ~ 53 degrees. Jupiter imaged in 4 colors, using NIMS wavelength playback table JFT04A. This observation acquired with feature near morning terminator, assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III).

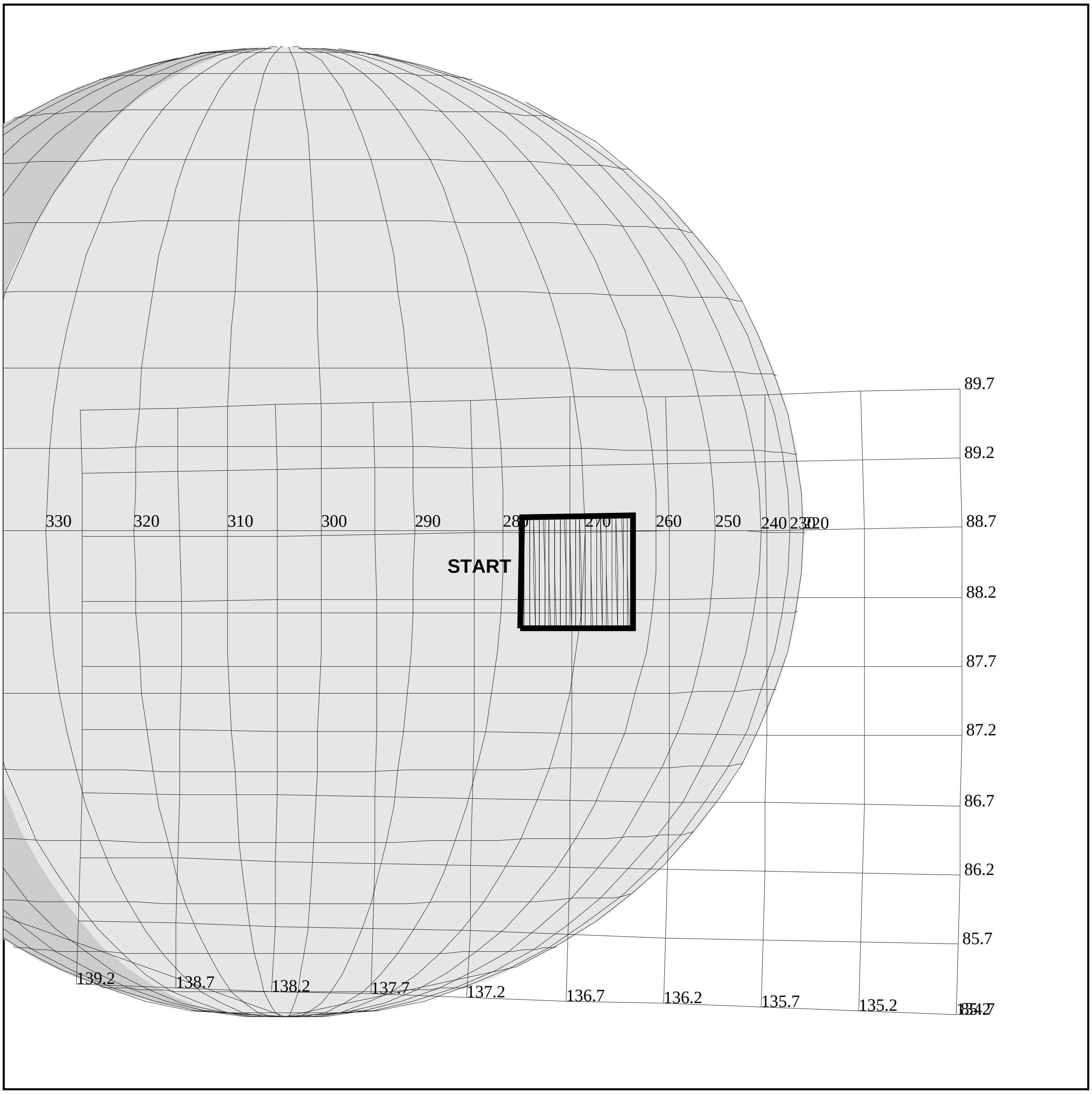
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on campaign feature. Spacecraft distance about 1.5 X 10^6 km; NIMS IFOV (NIMSel) = 750 km; 1 X 1 image covers 15000 X 15000 km. About 2 minutes of scanning accumulating 0.0307 MBTG in 4 colors using 0.0040 tracks. Four minutes reserved for targetting. JTA - JEE epoch offset of -120 RIMS assumed.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:36 rev 6/95



165DG:TT= 0 TMC= 1 C= 5.00 XC= 0.00 BS= 0/5025 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50=235.77 DEC50=-21.93 cone=136.97 clock= 88.39
117DG:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/5025
1:#s= 1 Cs= -10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 308 rD= 2

C3JNFEA05102

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA05102

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JTA 96-310/11:04:19.000 -CDS 570:00:0

OBSERVATION:C3JNFEA05102

THINNING:NIM 2

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

DESCRIP:Jupiter Campaign Feature 51deg 2

```
Jupiter Campaign Feature 53 dgrs. part 2 ACTIVITY ID:   C3JNFEA05102-
                                          START TIME:   96-310/01:23:56.334

Activity ID: Orbit C3  Target J  Inst N  OAPEL FEA051  SeqNo 02 -

Title        Jupiter Campaign Feature 53 dgrs. part 2Instrument      NIMS
Requestor    NIMS-AWG/K. BAINES        Team   NIMS  Working Group    AWG

Time System  CDS       Load ID  C3A     Calendar Date  11/05/96  Week  45

Start        JTA-CDS 00000574:00:0 96-310/01:23:56.334   JTA-000/09:40:22.666
End          JTA-CDS 00000568:06:0 96-310/01:29:56.334   JTA-000/09:34:22.666
Duration             00000005:85:0    000/00:06:00.000      000/00:06:00.000

Top Label    C3JNFEA05102-
Bottom Label

Plot Key     NIMS      Type            SCI
CDS Bytes        82    Report Options  BOTH        Scan Platform      Yes
CDS Source   OAP       Spin State      ALL         DMS                Yes
```

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. This is the second observation obtained on a rotation during phase angle ~ 53 degrees. Jupiter imaged in 4 colors, using NIMS wavelength playback table JFT04A. This observation acquired with feature near minimum airmass assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III).

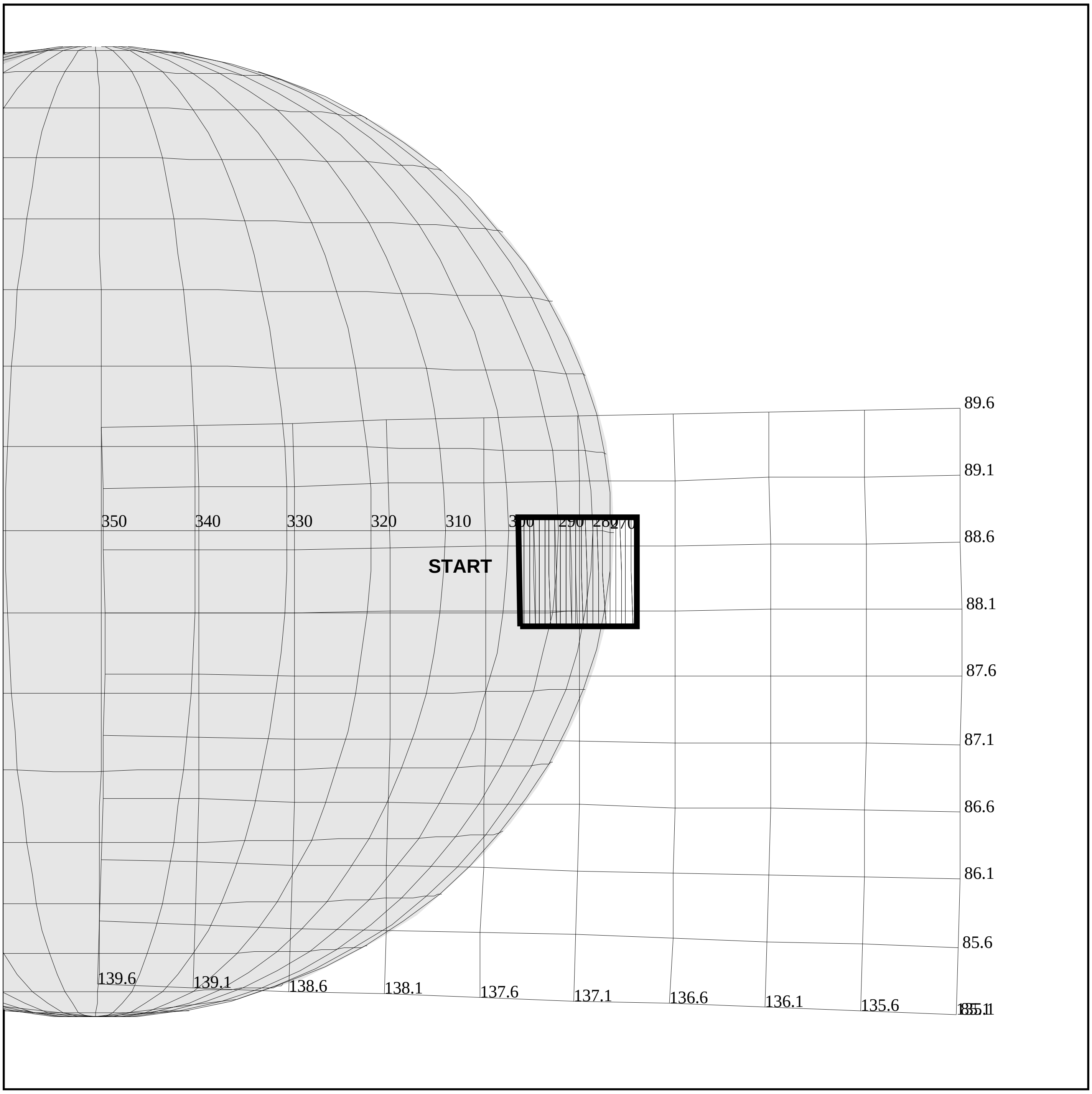
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on campaign feature. Spacecraft distance about 1.48 X 10^6 km; NIMS IFOV (NIMSel) = 740 km; 1 X 1 image covers 14200 X 14800 km, about 2 minutes of scanning, accumulating 0.0307 MBTG in 4 colors and 0.0040 tracks. Four minutes reserved for targetting.
JTA - JEE epoch offset of -120 RIMS assumed.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form   09/12/96 16:57:36   rev 6/95



165DH:TT= 0 TMC= 1 C= 8.00 XC= 0.00 BS= 0/9403 TC= 1(-5 271)
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117DH:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/9403
1:#s= 1 Cs= -10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 308 rD= 2

C3JNFEA05103

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA05103

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTA 96-310/11:04:19.000 -CDS 491:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:C3JNFEA05103 **DESCRIP:Jupiter Campaign Feature 51deg 3**

Jupiter Campaign Feature 53 dgrs. part 3 ACTIVITY ID: C3JNFEA05103-
START TIME: 96-310/02:43:49.000

Activity ID: Orbit C3 Target J Inst N OAPEL FEA051 SeqNo 03 -

Title	Jupiter Campaign Feature 53 dgrs. part 3	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System CDS Load ID C3A Calendar Date 11/05/96 Week 45

Start	JTA-CDS	00000495:00:0	96-310/02:43:49.000	JTA-000/08:20:30.000
End	JTA-CDS	00000489:06:0	96-310/02:49:49.000	JTA-000/08:14:30.000
Duration		00000005:85:0	000/00:06:00.000	000/00:06:00.000

Top Label C3JNFEA05103-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	82	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. This is the third observation obtained on a rotation during phase angle ~ 54 degrees. Jupiter imaged in 4 colors, using NIMS wavelength playback table JFT04A. This observation acquired with feature near the bright limb, assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III).

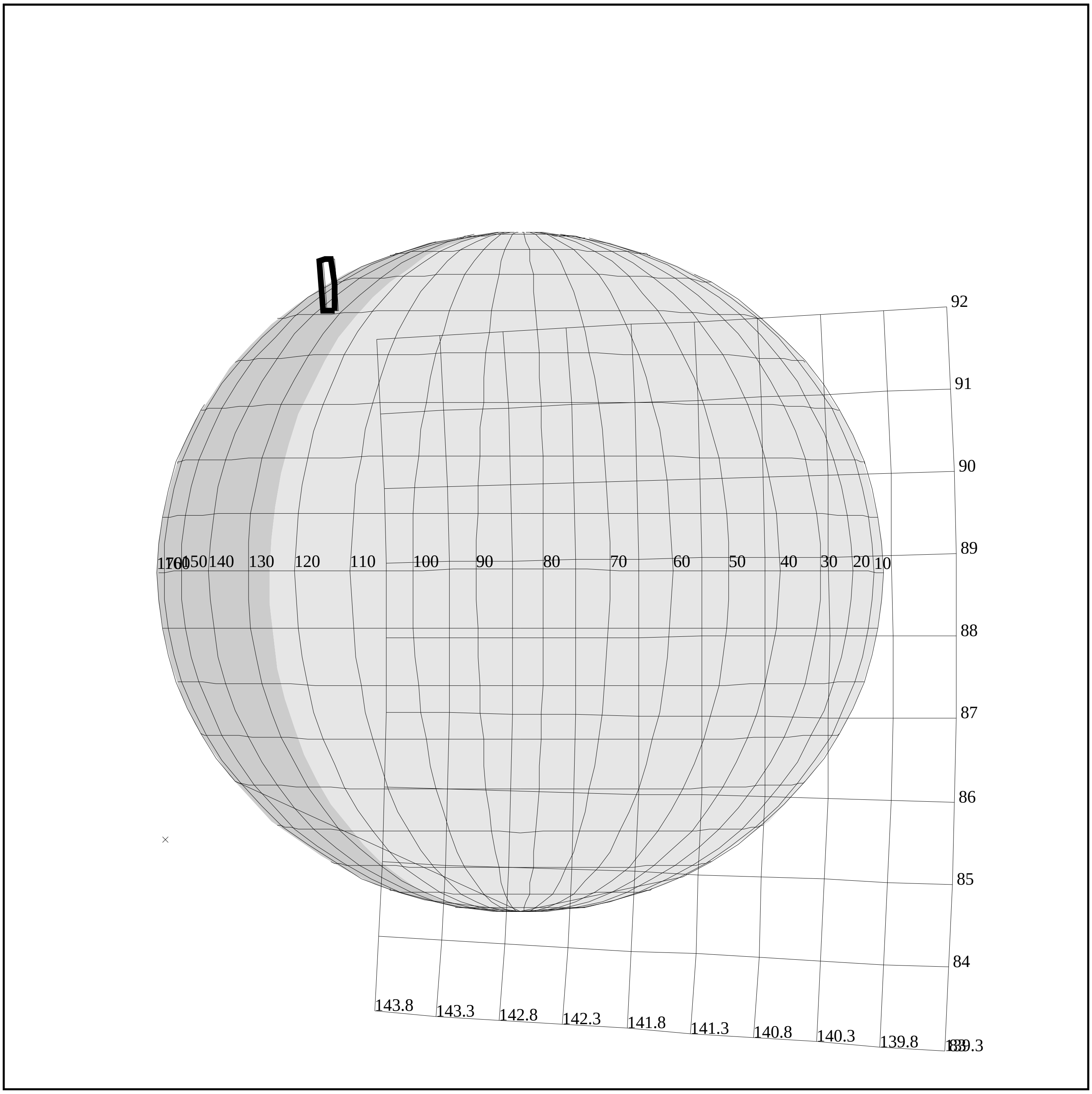
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 1.50 X 10^6 km; NIMS IFOV (NIMSel) = 750 km; 1 X 1 image covers 1500 X 1500 km. About 2 minutes of scanning accumulating 0.0307 MBTG in 4 colors and using 0.0040 tracks. Four minutes reserved for targetting. JTA - JEE epoch offsets of -120 assumed.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:36 rev 6/95



165AX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7977 TC= 1(59 162)
A= 728 pD= 27300 SR=17.450 RA50=244.00 DEC50=-20.96 cone=144.17 clock= 92.76

C3JNNTARRT01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JUFTKR2B11

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JTB 96-310/07:55:14.333 -CDS 147:00:0

OBSERVATION:C3JUFTKR2B11

THINNING: :UVS 1

BODY PLOT TIME:TARGET-TIME D=27300 S= 0.700

DESCRIP:JUPITER AURORAL CAMPAIGN

Jupiter NIMS TAR Real Time obs. No. 1	ACTIVITY ID: C3JNNTARRT01+ START TIME: 96-310/05:26:37.357

Activity ID: Orbit C3 Target J Inst N OAPEL NTARRT SeqNo 01 +

Title	Jupiter NIMS TAR Real Time obs. No. 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/05/96 Week 45

Start	JTB-CDS 00000147:00:0	96-310/05:26:37.357	JTB-000/02:28:38.000
End	JTB-CDS 00000137:00:0	96-310/05:36:44.024	JTB-000/02:18:31.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label C3JNNTARRT01+
Bottom Label

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

Observation Objective

First of three Real-Time OAPels to examine the MWG Trans-Auroral recording spot on Jupiter. Long map spectra acquired of North Polar Auroral region, centered on the point (59 degrees North latitude, 162 degrees West longitude) connected via magnetosphere field lines to the Galileo S/C which is simultaneously conducting in-situ magnetosphere observations.
Four spectra acquired total, one in each of the central four NIMS mirror positions.

Data Returned

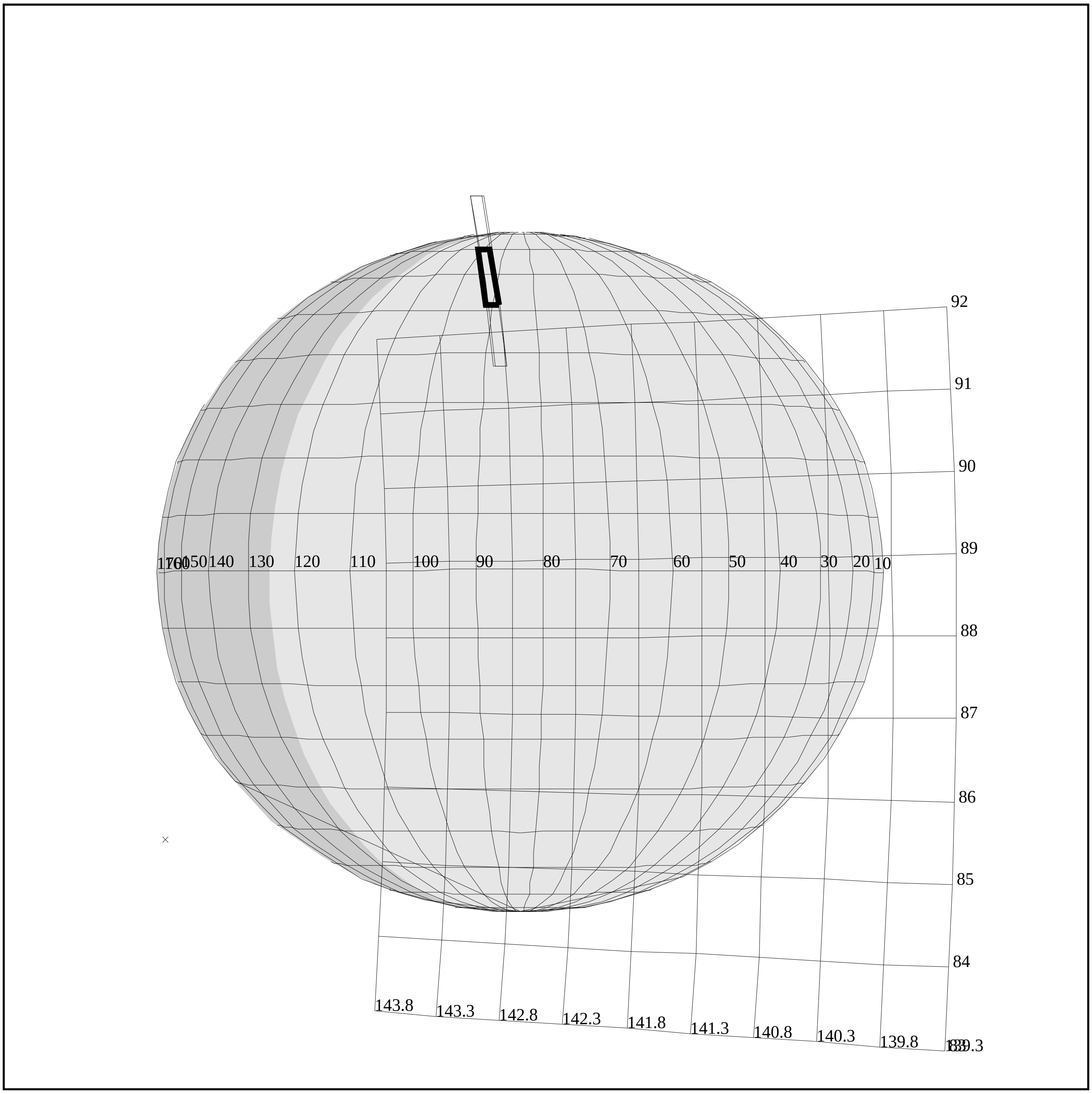
Design Detail

This is a Ride-along observation during a greater than two-hour long UVS observation. NIMS sends down, in real-time, 408 longmap wavelengths in four mirror positions. No targetting or scan platform PA's needed (scan platform being controlled by UVS).

Mirror Blocked (1B,1B) (11011,11011)
1 Rim.

Long Map (LM), Gain 2, Grating Start 0, RT , RT408

Galileo Activity Plan Form 11/07/96 15:57:33 rev 6/95



165AX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7977 TC= 1(59 162)
A= 728 pD= 27300 SR=17.450 RA50=244.00 DEC50=-20.96 cone=144.17 clock= 92.76

C3JNNTARRT02

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JUFTKR2B11

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JTB 96-310/07:55:14.333 -CDS 147:00:0

OBSERVATION:C3JUFTKR2B11

THINNING: :UVS 1

BODY PLOT TIME:TARGET-TIME D=27300 S= 0.700

DESCRIP:JUPITER AURORAL CAMPAIGN

Jupiter NIMS TAR Real-Time Obs. No. 2   ACTIVITY ID: C3JNNTARRT02+
START TIME: 96-310/07:05:42.691

Activity ID: Orbit C3 Target J Inst N OAPEL NTARRT SeqNo 02 +

Title	Jupiter NIMS TAR Real-Time Obs. No. 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS   Load ID   Calendar Date 11/05/96 Week 45

Start	JTB-CDS	00000049:00:0	96-310/07:05:42.691	JTB-000/00:49:32.666
End	JTB-CDS	00000039:00:0	96-310/07:15:49.357	JTB-000/00:39:26.000
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label   C3JNNTARRT02+
Bottom Label

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

Observation Objective

Second of three Real-Time OAPels to examine the MWG Trans-Auroral recording spot on Jupiter. Long map spectra acquired of North Polar Auroral region, centered on the point (59 degrees North latitude, 162 degrees West longitude) connected via magnetosphere field lines to the Galileo S/C which is simultaneously conducting in-situ magnetosphere observations.
Four spectra acquired total, one in each of the central four NIMS mirror positions.

Data Returned

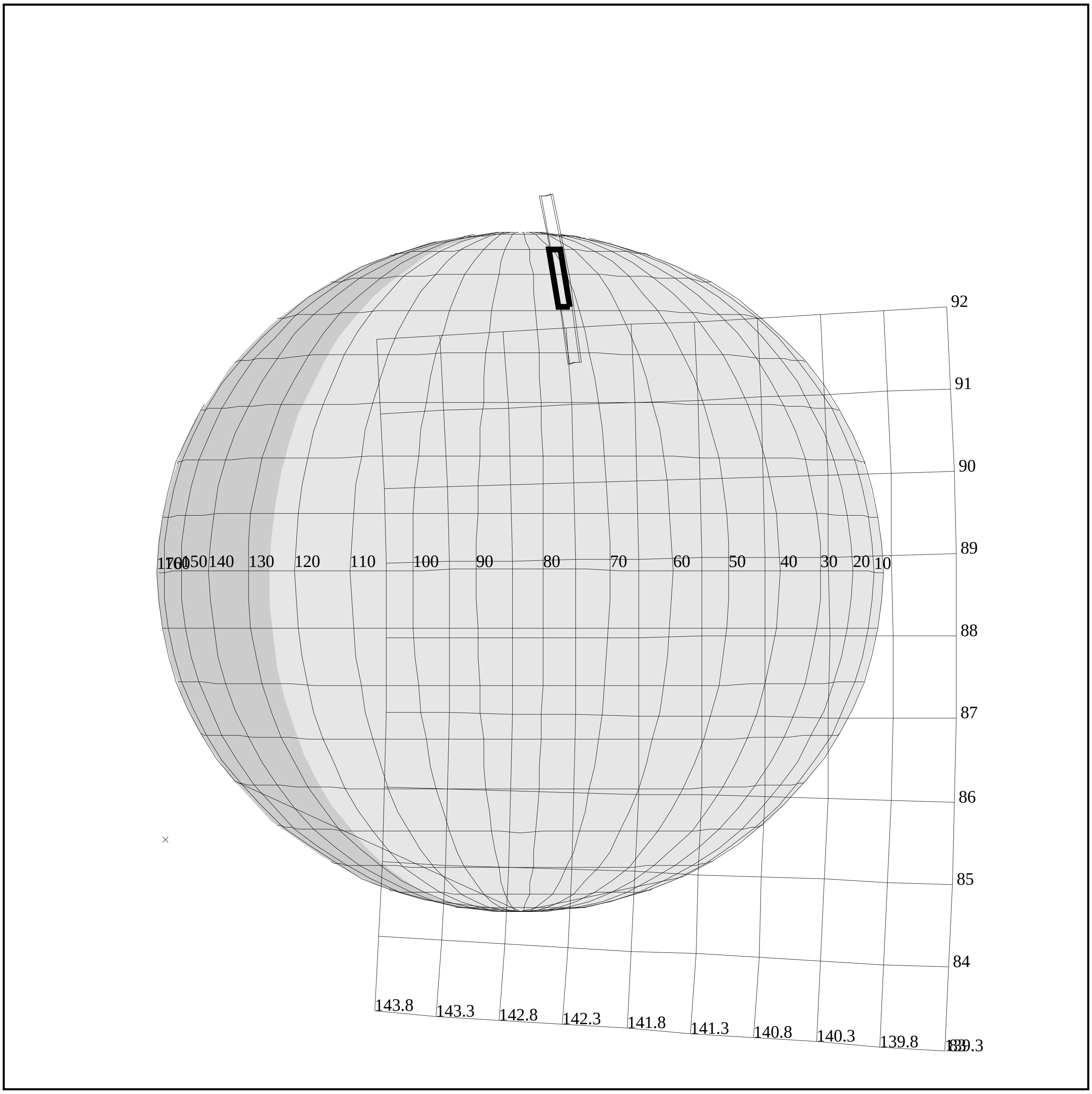
Design Detail

This is a Ride-along observation during a greater than two-hour long UVS observation. NIMS sends down, in real-time, 408 longmap wavelengths in four mirror positions. No targetting or scan platform PA's needed (scan platform being controlled by UVS).

Mirror Blocked (1B,1B) (11011,11011)
1 Rim

Long Map (LM), Gain 2, Grating Start 0, RT , RT408

Galileo Activity Plan Form   11/07/96 15:57:33   rev 6/95



165AX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7977 TC= 1(59 162)
A= 728 pD= 27300 SR=17.450 RA50=244.00 DEC50=-20.96 cone=144.17 clock= 92.76

C3JNNTARRT03

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JUFTKR2B11

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING: :UVS 1**

START:JTB 96-310/07:55:14.333 -CDS 147:00:0 **BODY PLOT TIME:TARGET-TIME D=27300 S= 0.700**

OBSERVATION:C3JUFTKR2B11 **DESCRIP:JUPITER AURORAL CAMPAIGN**

Jupiter NIMS TAR Real-Time Obs. No. 3	ACTIVITY ID:	C3JNNTARRT03+
	START TIME:	96-310/07:52:13.357

Activity ID: Orbit C3 Target J Inst N OAPEL NTARRT SeqNo 03 +

Title	Jupiter NIMS TAR Real-Time Obs. No. 3			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 11/05/96	Week 45

Start	JTB-CDS	00000003:00:0	96-310/07:52:13.357	JTB-000/00:03:02.000
End	JTB+CDS	00000007:00:0	96-310/08:02:20.023	JTB+000/00:07:04.666
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label	C3JNNTARRT03+
Bottom Label	

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

Observation Objective

Third of three Real-Time OAPels to examine the MWG Trans-Auroral recording spot on Jupiter. Long map spectra acquired of North Polar Auroral region, centered on the point (59 degrees North latitude, 162 degrees West longitude) connected via magnetosphere field lines to the Galileo S/C which is simultaneously conducting in-situ magnetosphere observations.
Four spectra acquired total, one in each of the central four NIMS mirror positions.

Data Returned

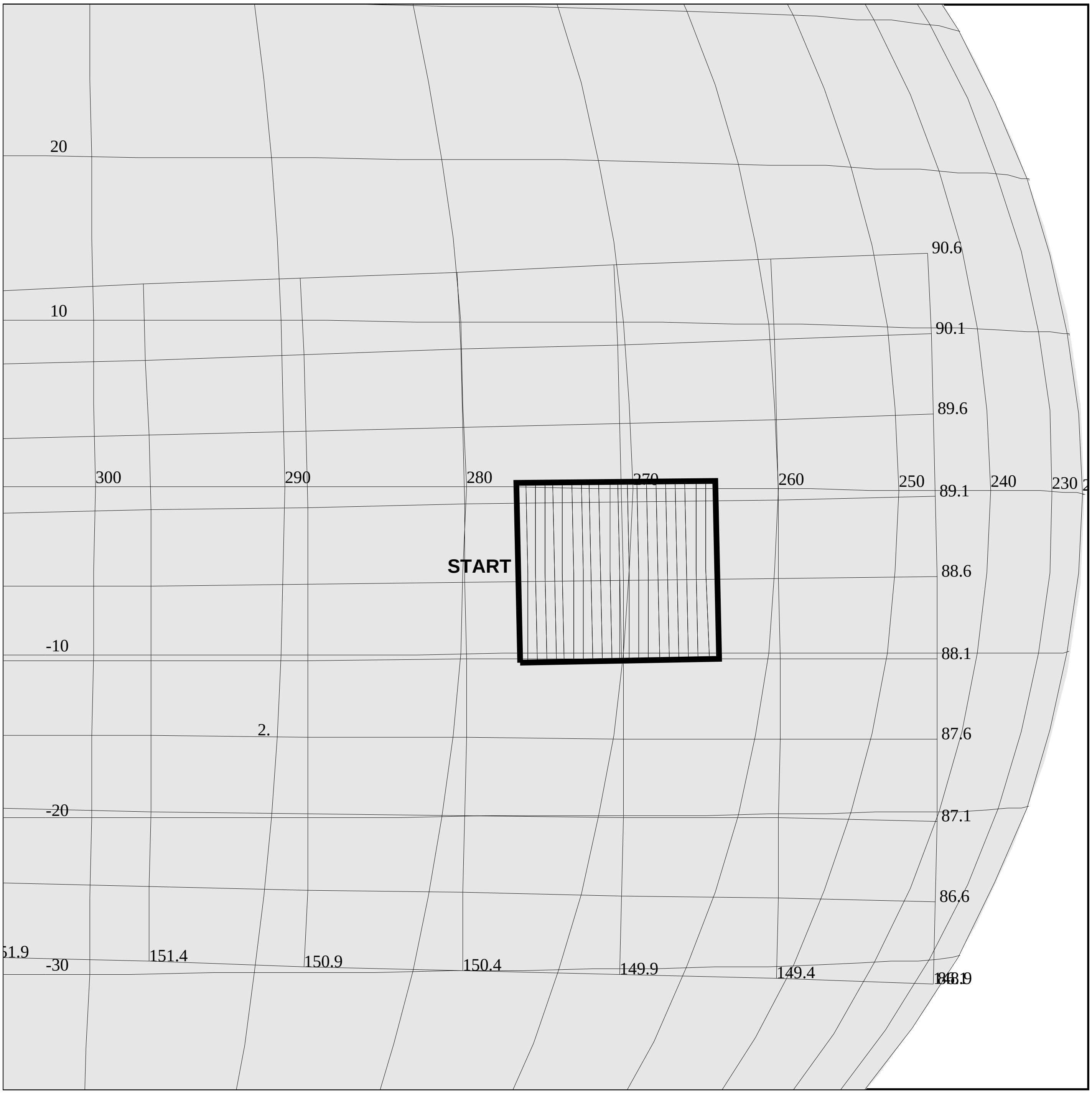
Design Detail

This is a Ride-along observation during a greater than two-hour long UVS observation. NIMS sends down, in real-time, 408 longmap wavelengths in four mirror positions. No targetting or scan platform PA’s needed (scan platform being controlled by UVS).

Mirror Blocked (1B,1B) (11011,11011)
1 Rim

Long Map (LM), Gain 2, Grating Start 0, RT , RT408

Galileo Activity Plan Form 11/07/96 15:57:34 rev 6/95



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117DK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5863
1:#s= 1 Cs= -10.80 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1092 rD= 2

C3JNFEASUB01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEASUB01

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JTA 96-310/11:04:19.000 +CDS 39:00:0

OBSERVATION:C3JNFEASUB01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000

DESCRIP:Jupiter Campaign Feat Sub-Sectra

Jupiter Campaign Feature Sub-Spectra   ACTIVITY ID: C3JNFEASUB01-
START TIME: 96-310/11:38:41.666

Activity ID: Orbit C3 Target J Inst N OAPEL FEASUB SeqNo 01 -

Title	Jupiter Campaign Feature Sub-Spectra	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS   Load ID C3A   Calendar Date 11/05/96 Week 45

Start	JTA+CDS 00000034:00:0	96-310/11:38:41.666	JTA+000/00:34:22.666
End	JTA+CDS 00000039:53:0	96-310/11:44:20.333	JTA+000/00:40:01.333
Duration	00000005:53:0	000/00:05:38.667	000/00:05:38.667

Top Label C3JNFEASUB01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

High spectral resolution map of South Equatorial Belt Campaign Feature in several CH4 and H2 absorption features. This single partial-spectra map obtained under good lighting and viewing conditions during the phase angle ~ 40 degrees rotation. Jupiter imaged in 80 colors distributed among five spectral regions, using NIMS wavelength playback table JSB80A. Assumed feature coordinates: 5.5 degrees south latitude and 271 degrees west longitude (System III).

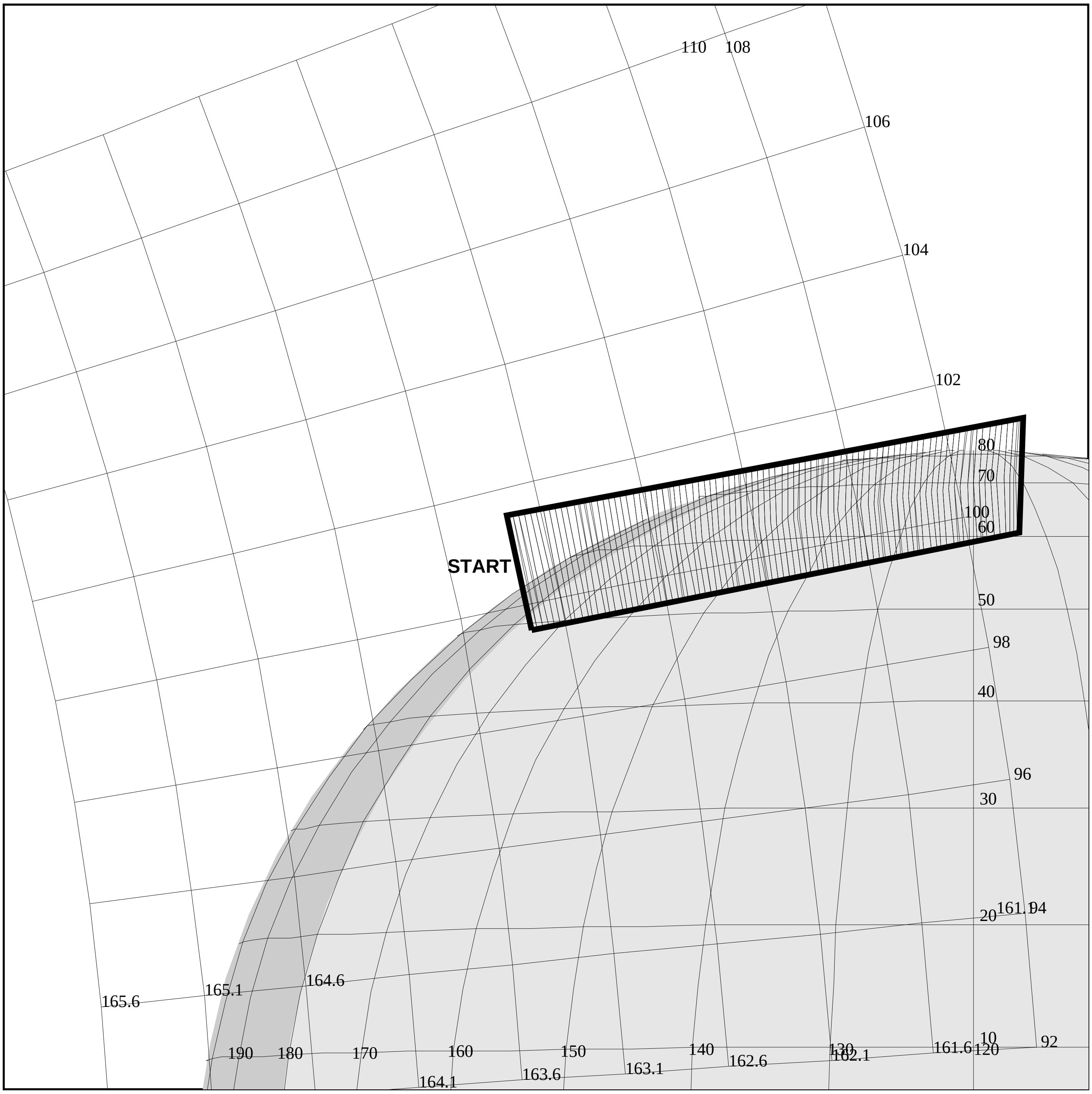
Data Returned

Design Detail

Longmap, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 1.18 X 10^6 km; NIMS IFOV (NIMSel) = 590 km; 1 X 1 image covers 11800 X 11800 km. About 6 minutes of scanning accumulating 0.363 MBTG and using 0.0121 tracks. Two minutes reserved for targetting. JTA - JEE epoch offset of -120 RIMS assumed. Note: 7/8/96. OAPEL delayed 4 RIMS to accomodate tape record wait period between OAPels.

Long Map (LM), Gain 4, Grating Start 0, LPU, JSB253A, JSB215A

Galileo Activity Plan Form   09/12/96 16:57:37   rev 6/95



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A= 728 pD= 0 SR=17.450 RA50=264.78 DEC50=-22.12 cone=163.24 clock=100.56
117DM:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/1555
1:#s= 1 Cs= -40.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1212 rD= 2

C3JNPFTRAK01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNPFTRAK01

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JTB 96-310/07:55:14.333 +CDS 532:00:0

OBSERVATION:C3JNPFTRAK01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500

DESCRIP:Jupiter Feather Track part 1

Jupiter Partial Feature Track part 1 ACTIVITY ID: C3JNPFTRAK01-
START TIME: 96-310/16:49:06.333

Activity ID: Orbit C3 Target J Inst N OAPEL PFTRAK SeqNo 01 -

Title	Jupiter Partial Feature Track part 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID C3A Calendar Date 11/05/96 Week 45

Start	JTB+CDS	00000528:00:0	96-310/16:49:06.333	JTB+000/08:53:52.000
End	JTB+CDS	00000538:30:0	96-310/16:59:32.999	JTB+000/09:04:18.666
Duration		00000010:30:0	000/00:10:26.666	000/00:10:26.666

Top Label C3JNPFTRAK01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	131	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

First of 2 OAPELS constituting the polar partial feature track. Jupiter imaged in 19 colors, using NIMS wavelength table JFT19B which includes auroral wavelengths. This OAPEL constitutes 1 scan of the Polar region, targetting the MWG "footprint" area on the auroral region on the planet which is tied to in-situ spacecraft observations of the Magnetosphere. This footprint extends from 60 degrees north, 156 degrees west longitude (System III) to 58.3 north, 168.2 degrees west longitude. OAPEL centered at 59 degrees north, 162 degrees west.

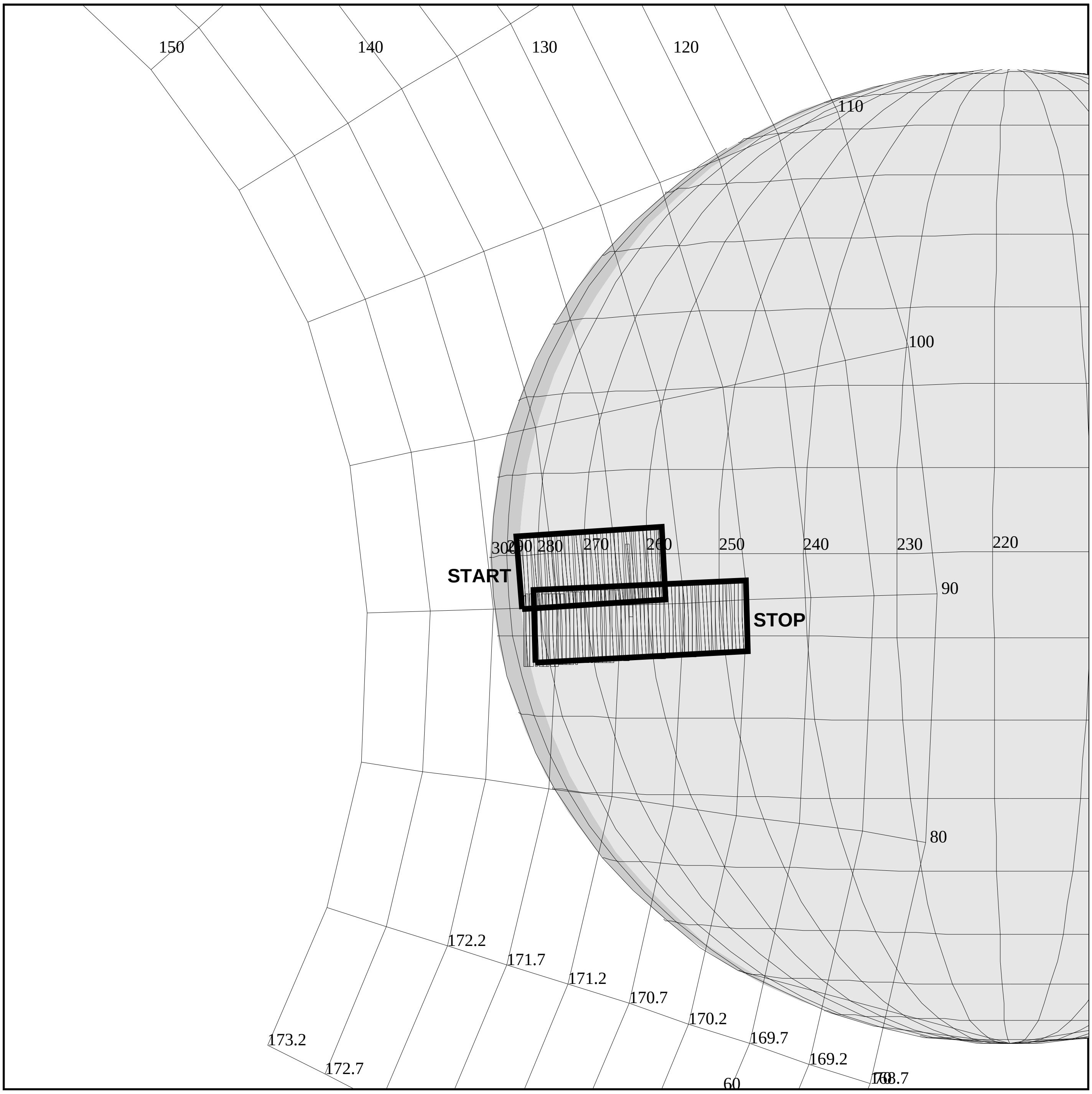
Data Returned

Design Detail

One shortmap, Nyquist-sampled observations of 4 X 1 (40 X 10 mrad) area centered on the polar feature. Spacecraft distance about 1.05 million km; NIMS IFOV (NIMSel) = 530 km; 4 X 1 image covers 42400 X 10500 km. Scan utilizes about 6 minutes 30 seconds, 0.3176 MBTG in 19 colors and 0.0132 tracks. Four minutes reserved for targetting.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68D, JFT26A

Galileo Activity Plan Form 09/12/96 16:57:37 rev 6/95



165DO:TT= 0 TMC= 1 C= 8.00 XC= 3.75 BS= 0/2859 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50=273.99 DEC50=-25.07 cone=172.02 clock= 92.04
117DO:#SB= 4 OR= 0.120 RR=17.000 BM=F RC= 1 BS= 0/2859
1:#s= 1 Cs= -19.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 492 rD= 2
2:#s= 1 Cs= -31.00 XCs= 0.00 Cr= 20.50 XCr= -8.00 sD= 808 rD= 64
3:#s= 1 Cs= -48.50 XCs= 0.00 Cr= 33.50 XCr= 7.75 sD= 1252 rD= 64
4:#s= 1 Cs= -27.50 XCs= 0.00 Cr= 51.00 XCr= -8.00 sD= 710 rD= 64

C3JNFEA01101

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA01101

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JTA 96-310/11:04:19.000 +CDS 517:00:0

OBSERVATION:C3JNFEA01101

THINNING:NIM 2

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

DESCRIP:Jupiter Campaign Feature 11deg 1

Jupiter Campaign Feature 18 dgrs. part 1 ACTIVITY ID: C3JNFEA01101-
START TIME: 96-310/19:40:59.666

Activity ID: Orbit C3 Target J Inst N OAPEL FEA011 SeqNo 01 -

Title	Jupiter Campaign Feature 18 dgrs. part 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System CDS Load ID C3A Calendar Date 11/05/96 Week 45

Start	JTC+CDS 00000511:00:0	96-310/19:40:59.666	JTC+000/08:36:40.666
End	JTC+CDS 00000534:00:0	96-310/20:04:15.000	JTC+000/08:59:56.000
Duration	00000023:00:0	000/00:23:15.334	000/00:23:15.334

Top Label C3JNFEA01101-
Bottom Label

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

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. The White Oval is scanned twice on a rotation during phase angle ~ 18 degrees. Jupiter imaged in 19 colors, using NIMS wavelength playback table JFT19A. This observation acquired with feature near dawn terminator and a little away from it assuming feature coordinates 5.5 degrees south latitude and 271 degrees longitude (System III).

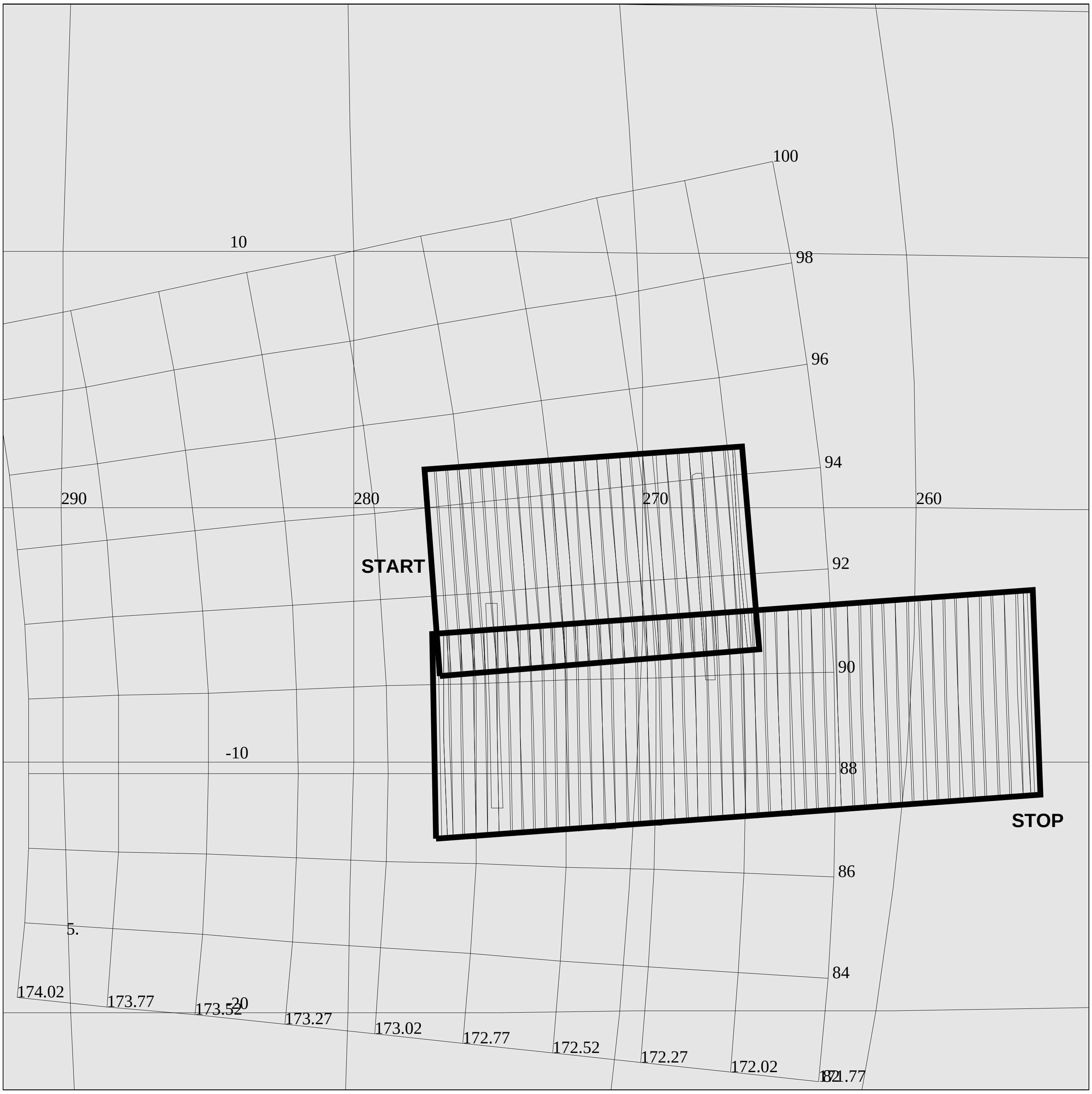
Data Returned

Design Detail

Two shortmap, Nyquist-sampled observations of 2 X 2 (20 X 18 mrad) area centered on campaign feature. Spacecraft distance about 0.94 X 10^6 km; NIMS IFOV (NIMSel) = 470 km; 2 X 2 image covers 18800 X 16900 km.
Two six minutes and 40 second scans accumulating a total of 0.72 MBTG in 19 colors and using 0.0270 tracks. Four minutes reserved for targetting. This observation was modified from its original form in that it includes the original C3JNFEA01102 OAPEL within it. Second scan and SCIREC begin about 96-310/21:57:40, corresponding to the scan time of the original C3JNFEA01102 OAPEL. Note: 6/96 - JTA - JEE epoch offset of -120 RIMS adotped to avoid cone pole, allowing coverage of more territory, campaign feature changed from White Oval to South Equatorial Belt due to absence of White Ovals during the JTA window. Note: 7/6/96: Separation between scans increased by 2 RIMS to accomodate tape recorder wait period constraint. Second SciRec now begins 96-310/21:52:42

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:37 rev 6/95



165DQ:TT= 0 TMC= 1 C= 8.50 XC= 3.75 BS= 0/4153 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50=274.93 DEC50=-25.02 cone=172.87 clock= 92.53
117DQ:#SB= 2 OR= 0.120 RR=17.000 BM=F RC= 1 BS= 0/4153
1:#s= 1 Cs= -15.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 396 rD= 42
2:#s= 1 Cs= -28.00 XCs= 0.00 Cr= 15.50 XCr= -8.00 sD= 734 rD= 62

C3JNFEA01104

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA01104

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JTA 96-310/11:04:19.000 +CDS 634:00:0

OBSERVATION:C3JNFEA01104

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 3.000

DESCRIP:Jupiter Campaign Feature 11deg 4

Jupiter Campaign Feature 18 dgrs. part 4 ACTIVITY ID: C3JNFEA01104-
START TIME: 96-310/21:41:19.000

Activity ID: Orbit C3 Target J Inst N OAPEL FEA011 SeqNo 04 -

Title	Jupiter Campaign Feature 18 dgrs. part 4	Instrument	NIMS		
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	C3A	Calendar Date	11/05/96	Week	45

Start	JTA+CDS	00000630:00:0	96-310/21:41:19.000	JTA+000/10:37:00.000
End	JTA+CDS	00000640:50:0	96-310/21:51:59.000	JTA+000/10:47:40.000
Duration		00000010:50:0	000/00:10:40.000	000/00:10:40.000

Top Label C3JNFEA01104-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	95	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. This is the fourth observation (scan) obtained on a rotation during phase angle ~ 18 degrees. Jupiter imaged in 19 colors, using NIMS wavelength playback table JFT19A. This observation acquired with feature near minimum airmass, assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III).

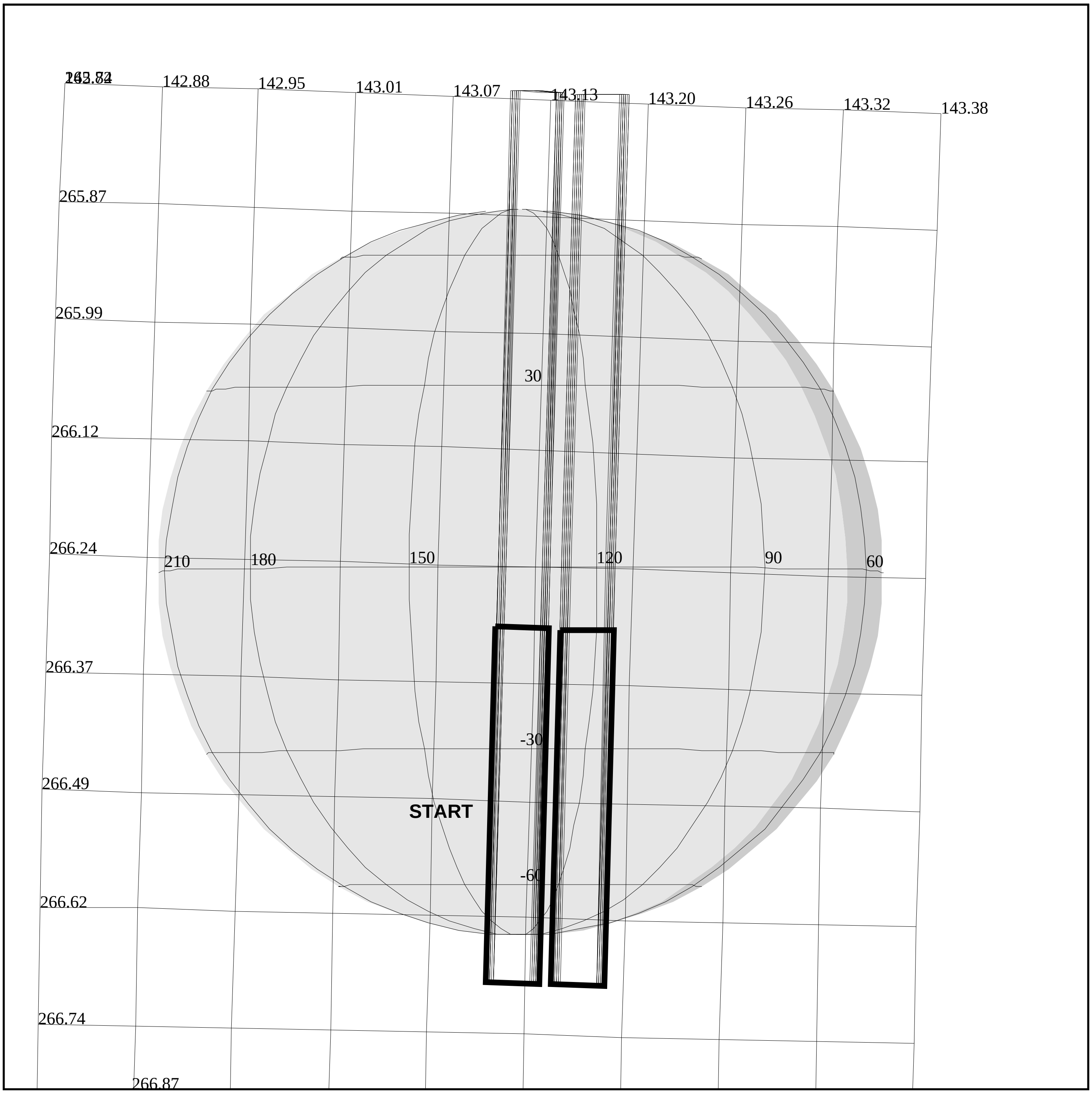
Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 2 X 2 (20 X 18 mrad) area centered on Campaign Feature. Spacecraft distance about 0.87 X 10^6 km; NIMS IFOV (NIMSel) = 435 km; 2 X 2 image covers 17400 X 15600 km.
About 6 minutes 40 seconds of scanning accumulating 0.36 MBTG in 19 colors and using 0.0135 tracks. Four minutes reserved for targetting.
Note: 6/96 JTA - JEE epoch offset of -120 RIMS adopted to avoid cone pole, allowing coverage of more territory. Campaign Feature changed from White Oval to South Equatorial Belt due to absence of a White Oval during the JTA window.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:38 rev 6/95



165EY:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6579 TC= 3
A= 910 pD= 0 SR=17.450 RA50=320.78 DEC50=-15.13 cone=143.12 clock=266.25

C3INRTIMON01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INRTIMON01

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 96-311/12:04:48.266 -CDS 507:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700**

OBSERVATION:C3INRTIMON01 **DESCRIP:Io Real Time Monitoring**

Io Real Time Monitoring	ACTIVITY ID:	C3INRTIMON01-
	START TIME:	96-311/03:28:07.667

Activity ID: Orbit C3 Target I Inst N OAPEL RTIMON SeqNo 01 -

Title	Io Real Time Monitoring			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	11/06/96	Week	45

Start	IEE-CDS	00000511:00:0	96-311/03:28:07.667	IEE-000/08:36:40.666
End	IEE-CDS	00000505:00:0	96-311/03:34:11.667	IEE-000/08:30:36.666
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label	C3INRTIMON01-
Bottom Label	

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

Observation Objective

Realtime monitoring of Io.
This observation is required to improve wavelength selection for Io observations in the sequence. NIMS mode XM, mirror block, 8 wavelengths.

Data Returned

Design Detail

Target to center of Disk.

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

Fixed Map (XM), Gain 2, Grating Start 21, RT , RT008

Galileo Activity Plan Form 09/12/96 16:57:39 rev 6/95

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NIMS Software Load	ACTIVITY ID: C3NIMSP2LD01- START TIME: 96-311/03:35:12.333

Activity ID: Orbit C3 Target N Inst I OAPEL MSP2LD SeqNo 01 -

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

Time System CDS Load ID Calendar Date 11/06/96 Week 45

Start	IEE-CDS	00000504:00:0	96-311/03:35:12.333	IEE-000/08:29:36.000
End	IEE-CDS	00000489:00:0	96-311/03:50:22.333	IEE-000/08:14:26.000
Duration		00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label C3NIMSP2LD01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

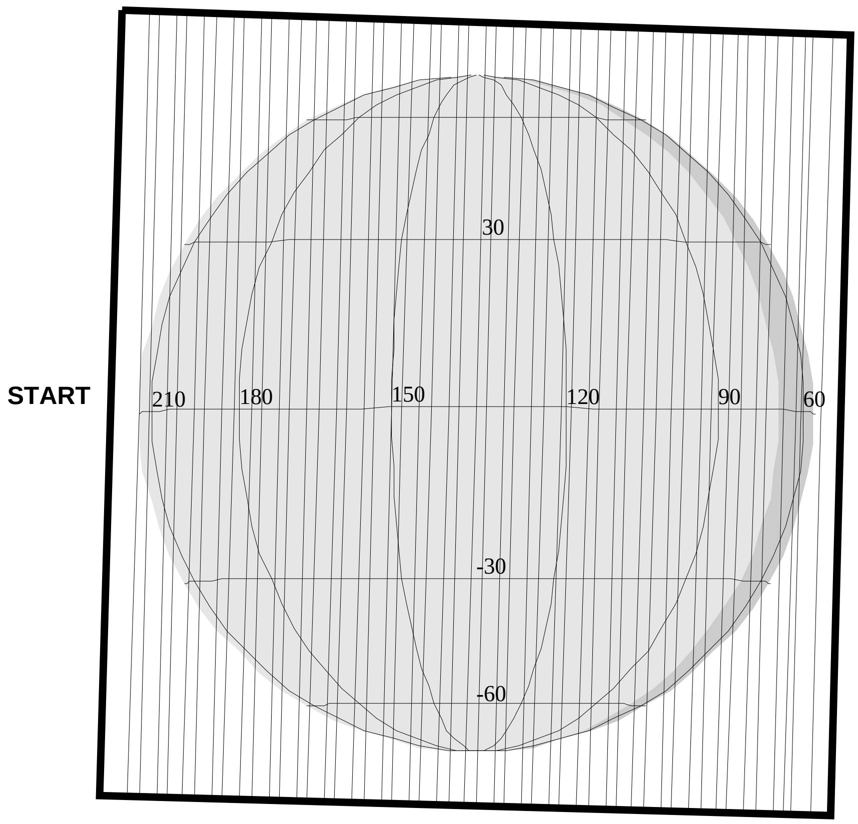
Observation Objective

Reload NIMS RAM flight software from CDS.
LOAD_A

Design Detail

```
6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL   - Halt NIMS Processor (37PL)
37MRL  - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT  - Instrument Reset
37MN   - Memory Normal
37IST  - Chopper Reference
```

Galileo Activity Plan Form 09/12/96 16:57:39 rev 6/95



165DS:TT= 0 TMC= 1 C= -4.60 XC= 0.00 BS= 0/2403 TC= 3
A= 728 pD= 0 SR=17.450 RA50=322.28 DEC50=-14.54 cone=141.56 clock=266.24
117DS:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2403
1:#s= 1 Cs= 6.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 666 rD= 2

C3INCHEMIS02

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INCHEMIS02

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-311/12:04:48.266 -CDS 475:00:0

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

OBSERVATION:C3INCHEMIS02

DESCRIP:MONITORING OF IO'S DAYSIDE

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: C3INCHEMIS02- START TIME: 96-311/04:00:29.000

Activity ID: Orbit C3 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 C3A Calendar Date 11/06/96 Week 45

Start	IEE-CDS	00000479:00:0	96-311/04:00:29.000	IEE-000/08:04:19.333
End	IEE-CDS	00000470:08:0	96-311/04:09:29.667	IEE-000/07:55:18.666
Duration		00000008:83:0	000/00:09:00.667	000/00:09:00.667

Top Label C3INCHEMIS02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	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

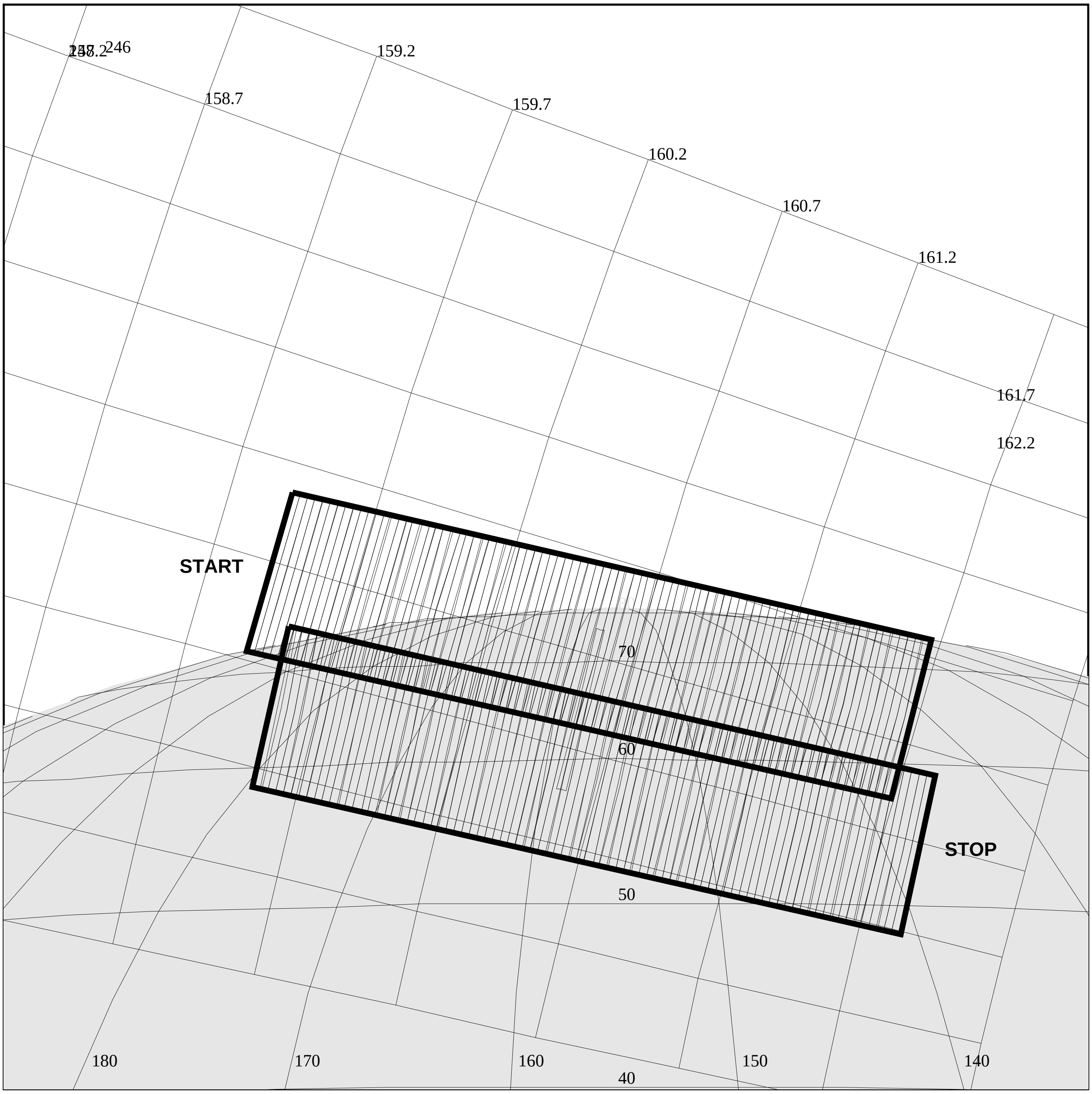
Design Detail

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.

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, ILM245, ILM102

Galileo Activity Plan Form 09/12/96 16:57:39 rev 6/95



165DT:TT= 0 TMC= 1 C= -35.00 XC= -81.50 BS= 0/0411 TC= 3
A= 728 pD= 0 SR=17.450 RA50=302.41 DEC50=-15.63 cone=159.39 clock=251.10
117DT:#SB= 1 OR= 0.080 RR=12.000 BM=F RC= 1 BS= 0/0411
1:#s= 2 Cs= 31.00 XCs= 0.00 Cr= -37.00 XCr= 10.00 sD= 1168 rD= 28

C3JNNPOLE_01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNNPOLE_01

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JEE 96-311/13:27:42.933 -CDS 513:00:0

OBSERVATION:C3JNNPOLE_01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 3.000

DESCRIP:JUPITER NORTH POLE MAP 1

Jupiter North Pole Map #1	ACTIVITY ID: C3JNNPOLE 01- START TIME: 96-311/04:46:59.667

Activity ID: Orbit C3 Target J Inst N OAPEL NPOLE SeqNo 01 -

Title	Jupiter North Pole Map #1			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID C3A Calendar Date 11/06/96 Week 45

Start	JEE-CDS	00000515:00:0	96-311/04:46:59.667	JEE-000/08:40:43.333
End	JEE-CDS	00000500:00:0	96-311/05:02:09.667	JEE-000/08:25:33.333
Duration		00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label C3JNNPOLE 01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

Map of North Polar Region characterizing haze and cloud structures at high spatial resolution. Nineteen (19) colors transmitted by NIMS wavelength table JFT19A. Observe as well the Magnetosphere footprint site at 59 degrees north, 162 degrees west one rotation after C3JNPFTRAK01 and C3JNPFTRAK02 observations which were nearly simultaneous with the in-situ magnetosphere observations.

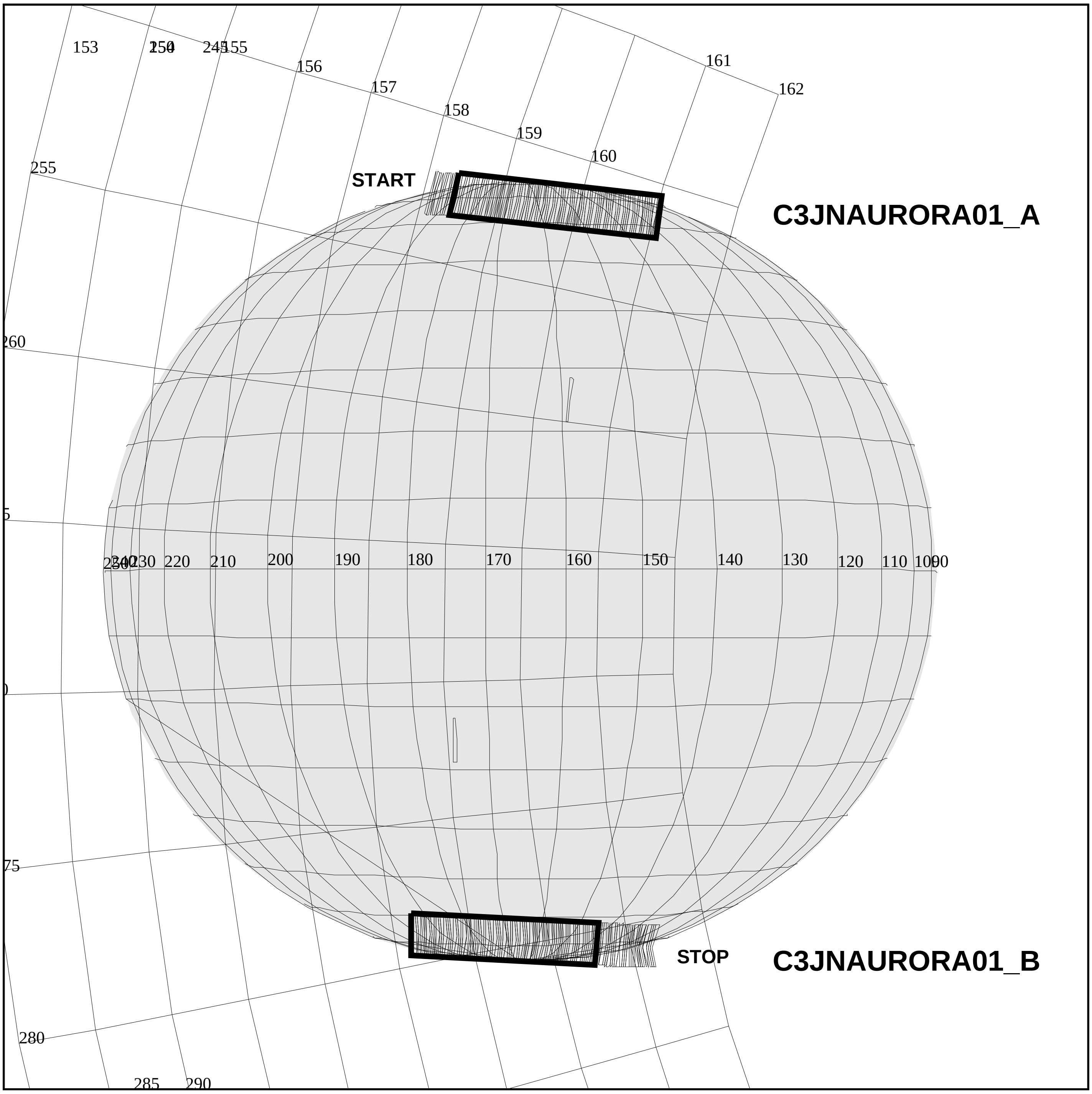
Data Returned

Design Detail

Shortmap, Nyquist-sampled observations of 50 X 18 mrad area (200 X 40 sampled NIMSels) at the North Pole. Spacecraft distance about 0.60 x 10^6 km; NIMS IFOV (NIMSel) = 300 km; area covered ~ 1500 km East-West, 10800 km North-South. Area covered in two tiers, with 2 mrad overlap between tiers. Tiers cover approximately 55 degrees north to the North Pole, and 130 - 180 degrees west longitude. Observation takes 16 minutes, accumulating 1.746 MBTG and using 0.03168 tracks.
NIMS wavelengths color table JFT19A. Four minutes reserved for targetting.
Note: 7/8/96 - OAPel moved 3 RIMS later to accomodate tape recorder wait period constraint.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68D, JFT26A

Galileo Activity Plan Form 09/12/96 16:57:40 rev 6/95



165DU:TT= 0 TMC= 1 C= -33.00 XC= -79.00 BS= 0/3869 TC= 3
A= 364 pD= 0 SR=17.450 RA50=303.87 DEC50=-15.49 cone=158.10 clock=252.67
117DU:#SB= 2 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/3869
1:#s= 1 Cs= 16.25 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 4914 rD= 2
2:#s= 1 Cs= 17.40 XCs= 0.00 Cr= -15.00 XCr= 162.00 sD= 5314 rD= 140

C3JNAURORA01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNAURORA01

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 96-311/13:27:42.933 -CDS 494:00:0

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

OBSERVATION:C3JNAURORA01

DESCRIP:JUPITER AURORA 01

Jupiter Aurora	ACTIVITY ID: C3JNAURORA01- START TIME: 96-311/05:10:15.000

Activity ID: Orbit C3 Target J Inst N OAPEL AURORA SeqNo 01 -

Title	Jupiter Aurora			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID C3A Calendar Date 11/06/96 Week 45

Start	JEE-CDS	00000492:00:0	96-311/05:10:15.000	JEE-000/08:17:28.000
End	JEE-CDS	00000437:00:0	96-311/06:05:51.667	JEE-000/07:21:51.333
Duration		00000055:00:0	000/00:55:36.667	000/00:55:36.667

Top Label C3JNAURORA01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	182	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

H3+ and other emissions imaged near 3-4 microns over both north and south poles. Forty (40) wavelengths sent to ground, using NIMS wavelength table JAU40A. Observe magnetosphere footprint site at 59 degrees north, 162 degrees west one rotation after in-situ spacecraft measurement and PFTRAK NIMS measurements.

Data Returned

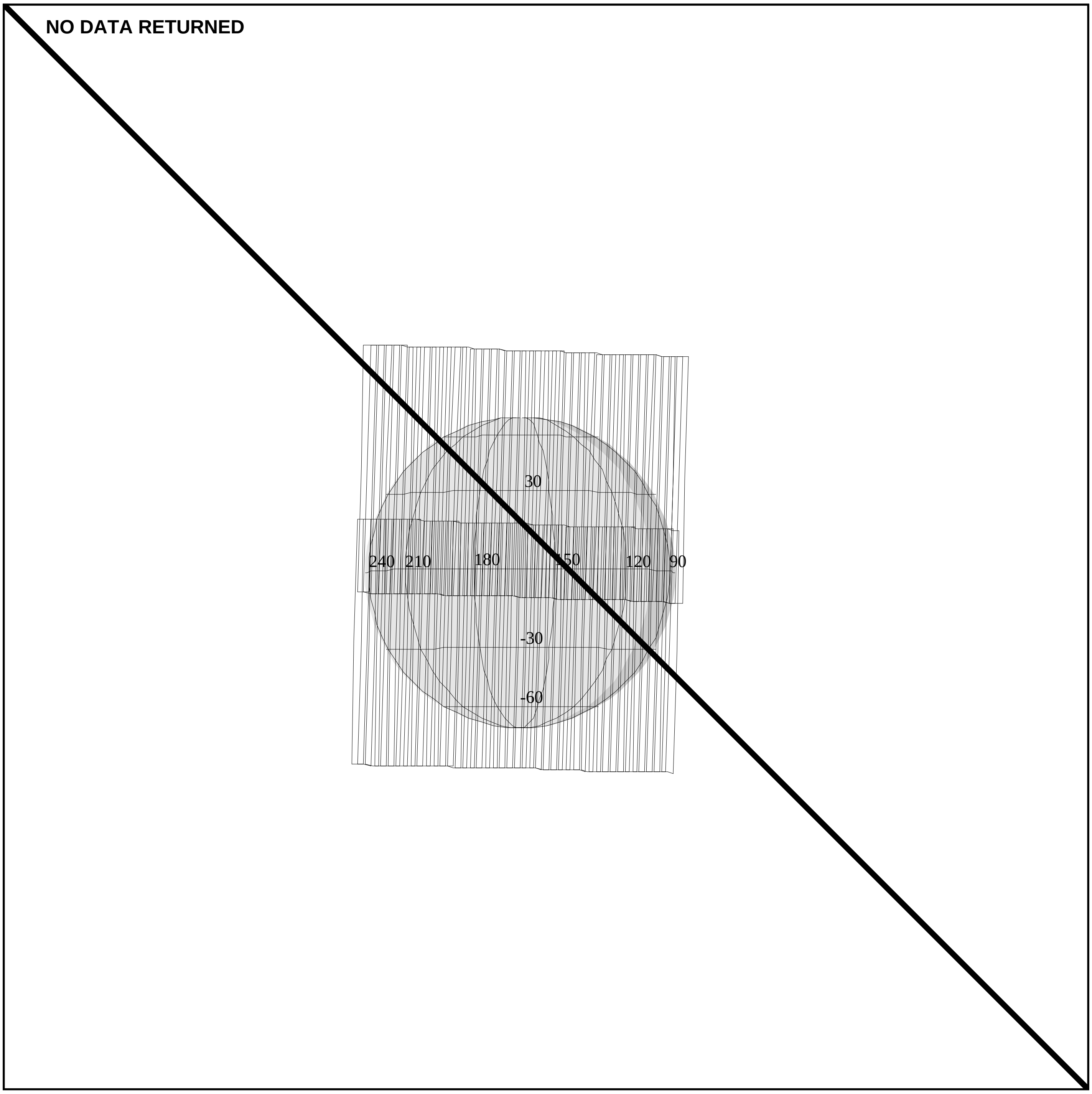
Design Detail

Longmap, Nyquist-sampled observation of 5.0 X 1 (200 X 20 NIMSel samples covering 50 X 20 area) centered first on north pole and then on the south pole. North Pole territory covered: Approximately 55 - 70 degrees north latitude, 145 to 190 degrees west longitude. South Pole territory covered: Approximately 62 - 90 degrees south latitude, 130 - 190 degrees west longitude. Spacecraft distance about 0.6 million km; covers 15000 x 6000 km. About 1734 seconds (29 minutes) of scanning. Each pole accumulates 0.9820 MBTG in 40 wavelengths and using 0.0605 tracks, on each pole. Two minutes reserved for targetting, since observation follows OAPEL C3JNNPOLE01 on the same target.
Note: 7/8/96 - OAPel moved 3 RIMS earlier to acomodate tape recorder wait period constraint.

North and South Polar swaths split into separate CUBE products (A and B).

Long Map (LM), Gain 2, Grating Start 0, LPU, JAU253A, JAU80A

Galileo Activity Plan Form 09/12/96 16:57:40 rev 6/95



165DV:TT= 0 TMC= 1 C= -6.50 XC= -4.00 BS= 0/5719 TC= 3
A= 728 pD= 0 SR=17.450 RA50=328.73 DEC50=-11.54 cone=134.60 clock=265.77
117DV:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5719
1:#s= 2 Cs= 11.00 XCs= 0.00 Cr= -12.80 XCr= 7.00 sD= 1106 rD= 28

C3INCHEMIS03

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INCHEMIS03

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:IEE 96-311/12:04:48.266 -CDS 237:00:0

OBSERVATION:C3INCHEMIS03

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

DESCRIP:MONITORING OF IO'S DAYSIDE

MONITORING OF IO’S DAYSIDE — ACTIVITY ID: C3INCHEMIS03- START TIME: 96-311/08:01:07.667

Activity ID: Orbit C3 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 C3A Calendar Date 11/06/96 Week 45

Start	IEE-CDS	00000241:00:0	96-311/08:01:07.667	IEE-000/04:03:40.666
End	IEE-CDS	00000223:66:0	96-311/08:18:35.667	IEE-000/03:46:12.666
Duration		00000017:25:0	000/00:17:28.000	000/00:17:28.000

Top Label C3INCHEMIS03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	167	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	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).

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.

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, ILM245, ILM102

Galileo Activity Plan Form 09/12/96 16:57:40 rev 6/95

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NIMS Software Load	ACTIVITY ID:	C3NIMSP2LD02-
	START TIME:	96-311/09:39:12.266

Activity ID: Orbit C3 Target N Inst I OAPEL MSP2LD SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date	11/06/96	Week	45

Start	IEE+CDS	00000000:00:0	96-311/09:39:12.266	IEE+000/00:00:00.000
End	IEE+CDS	00000000:00:0	96-311/09:54:22.266	IEE+000/00:00:00.000
Duration		00000000:00:0	000/00:15:10.000	000/00:15:10.000

Top Label	C3NIMSP2LD02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

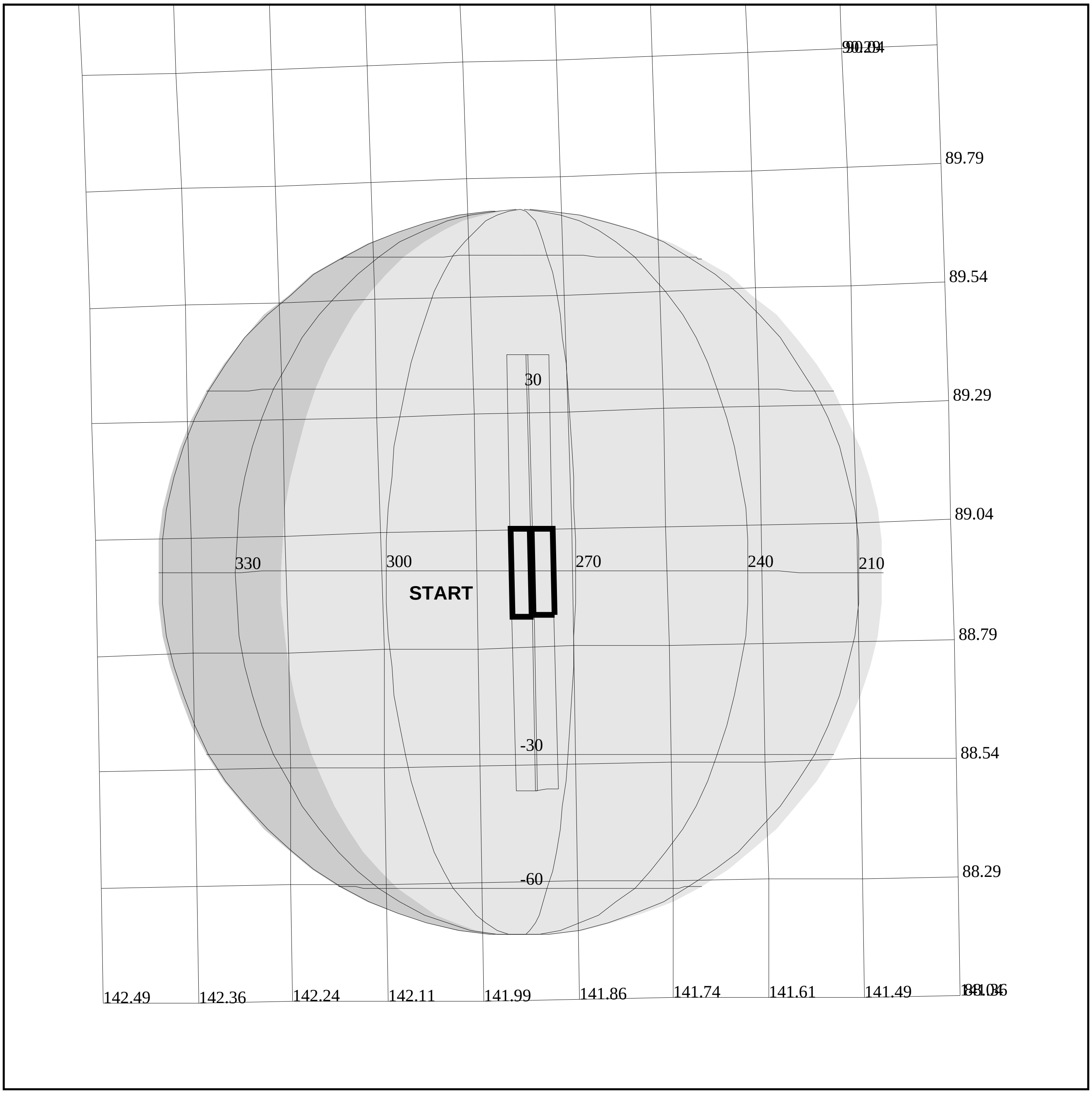
Observation Objective

Reload NIMS RAM flight software from CDS.
LOAD_B

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL   - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN   - Memory Normal
37IST - Chopper Reference

Galileo Activity Plan Form   09/12/96 16:57:43   rev 6/95



165EZ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/5193 TC= 3
A= 728 pD= 0 SR=17.450 RA50=241.09 DEC50=-22.69 cone=141.93 clock= 88.95

C3ENEURORT01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3ENEURORT01

TARGET BODY : EUROPA

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 1**

START:EEE 96-311/18:50:15.600 -CDS 531:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.700**

OBSERVATION:C3ENEURORT01 **DESCRIP:Europa Real Time Monitoring**

Europa Real Time Observation	ACTIVITY ID: C3ENEURORT01- START TIME: 96-311/09:42:14.333

Activity ID: Orbit C3 Target E Inst N OAPEL EURORT SeqNo 01 -

Title	Europa Real Time Observation			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 11/06/96 Week 45

Start	EEE-CDS	00000534:00:0	96-311/09:42:14.333	EEE-000/08:59:56.000
End	EEE-CDS	00000528:00:0	96-311/09:48:18.333	EEE-000/08:53:52.000
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label C3ENEURORT01
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

Realtime observation of Europa.
This observation is required to improve wavelength selection for Europa C3 observations that have low albedo. NIMS mode LM, mirror block, 408 wavelengths.

Data Returned

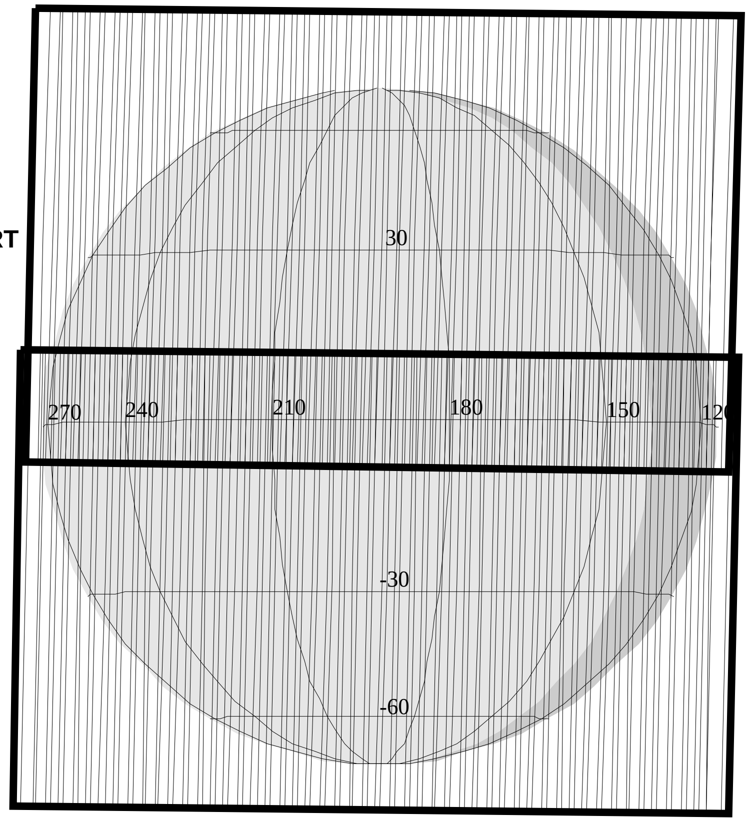
Design Detail

Target to center of Disk.

Mirror Blocked (1B,1B) (11011,11011)
2 Rims.

Long Map (LM), Gain 2, Grating Start 0, RT , RT408

Galileo Activity Plan Form 09/12/96 16:57:41 rev 6/95



165DW:TT= 0 TMC= 1 C= -7.70 XC= -4.00 BS= 0/6669 TC= 3
A= 728 pD= 0 SR=17.450 RA50=331.73 DEC50=-10.39 cone=131.44 clock=265.98
117DW:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6669
1:#s= 2 Cs= 13.00 XCs= 0.00 Cr= -15.10 XCr= 7.80 sD= 1324 rD= 24

C3INHRSPEC01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INHRSPEC01

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 96-311/12:04:48.266 -CDS 12:00:0

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

OBSERVATION:C3INHRSPEC01

DESCRIP:HIGH SPATIAL AND SPECTRAL OBS.

HIGH SPATIAL & SPECTRAL OBS. OF IO	ACTIVITY ID:	C3INHRSPEC01-
	START TIME:	96-311/11:48:37.667

Activity ID: Orbit C3 Target I Inst N OAPEL HRSPEC SeqNo 01 -

Title	HIGH SPATIAL & SPECTRAL OBS. OF IO			Instrument	NIMS
Requestor	NIMS-SWG/R. LOPES	Team	NIMS	Working Group	SWG

Time System CDS Load ID C3A Calendar Date 11/06/96 Week 45

Start	IEE-CDS	00000016:00:0	96-311/11:48:37.667	IEE-000/00:16:10.666
End	IEE+CDS	00000004:45:0	96-311/12:09:20.999	IEE+000/00:04:32.666
Duration		00000020:45:0	000/00:20:43.332	000/00:20:43.332

Top Label C3INHRSPEC01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	167	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	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.

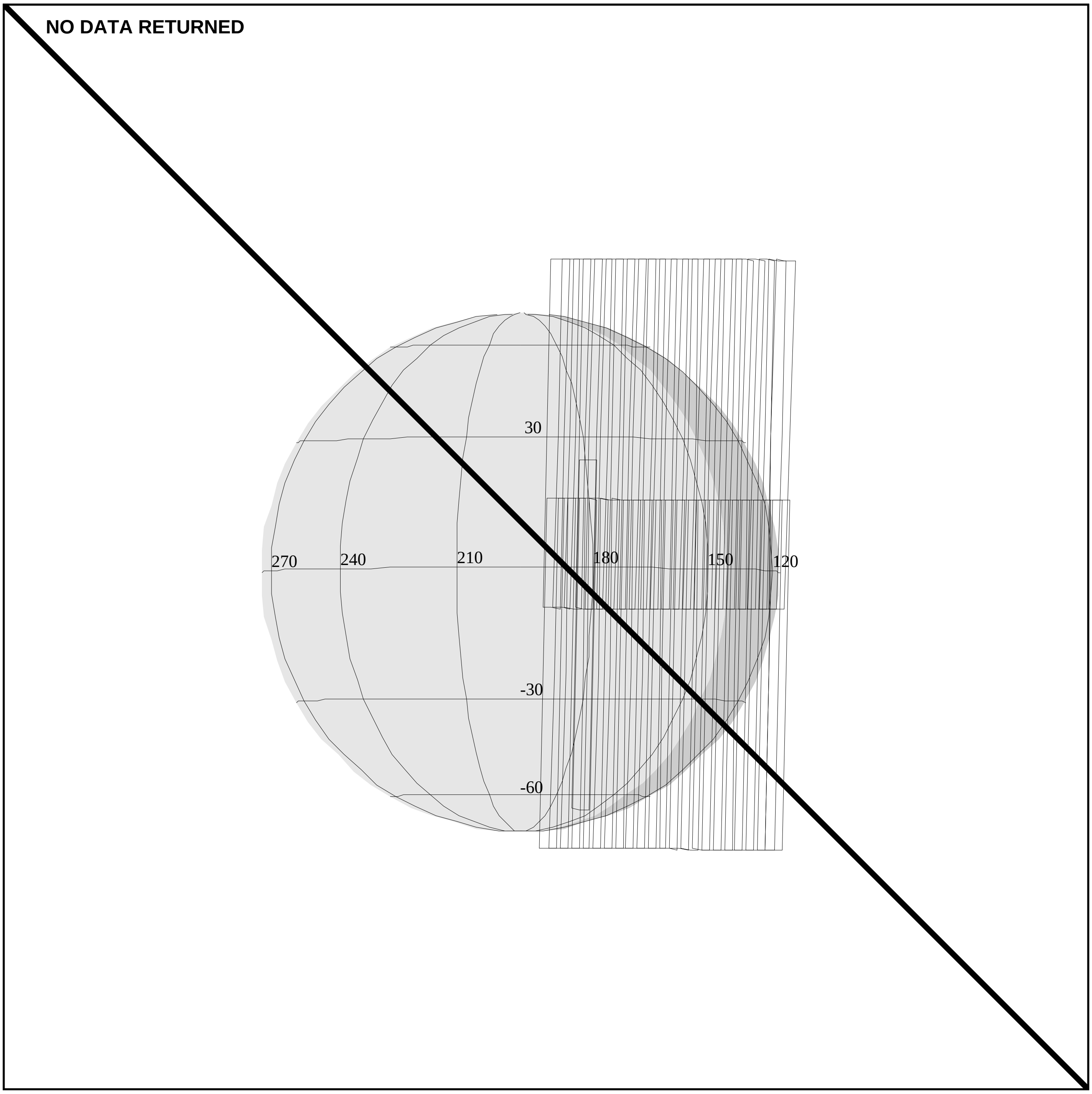
Data Returned

Design Detail

Global mosaic in Long Map (408 wavelengths).

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM442, ILM408

Galileo Activity Plan Form 09/12/96 16:57:41 rev 6/95



165DX:TT= 0 TMC= 1 C= 0.75 XC= -4.00 BS= 0/3039 TC= 3
A= 728 pD= 0 SR=17.450 RA50=331.90 DEC50=-10.39 cone=131.29 clock=266.08
117DX:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3039
1:#s= 2 Cs= 5.50 XCs= 0.00 Cr= -6.60 XCr= 7.00 sD= 566 rD= 32

C3INTHRMAL01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INTHRMAL01

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:IEE 96-311/12:04:48.266 +CDS 23:00:0

OBSERVATION:C3INTHRMAL01

THINNING:NIM 1

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

DESCRIP:MONITORING OF IO'S NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE	**ACTIVITY ID: C3INTHRMAL01-** **START TIME: 96-311/12:24:00.999**

Activity ID: Orbit C3 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 C3A Calendar Date 11/06/96 Week 45

Start	IEE+CDS	00000019:00:0	96-311/12:24:00.999	IEE+000/00:19:12.666
End	IEE+CDS	00000027:65:0	96-311/12:32:49.666	IEE+000/00:28:01.333
Duration		00000008:65:0	000/00:08:48.667	000/00:08:48.667

Top Label C3INTHRMAL01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	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.

No 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.

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM442, ILMDK102

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C3 Health 5	ACTIVITY ID: C3NNHEALTH05- START TIME: 96-311/13:24:40.999

Activity ID: Orbit C3 Target N Inst N OAPEL HEALTH SeqNo 05 -

Title	C3 Health 5			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	11/06/96	Week	45

Start	IEE+CDS	00000079:00:0	96-311/13:24:40.999	IEE+000/01:19:52.666
End	IEE+CDS	00000082:00:0	96-311/13:27:42.999	IEE+000/01:22:54.666
Duration		00000003:00:0	000/00:03:02.000	000/00:03:02.000

Top Label C3NNHEALTH05
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

Realtime Instrument Health observation.
Required to verify instrument operation.
These observations provide a 3 detector view of the instrument.
The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target.
The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

Acquire 1 grating cycle at the end of previous mosaic.

Long Map (LM), Gain 2, Grating Start 0, RT , RT003

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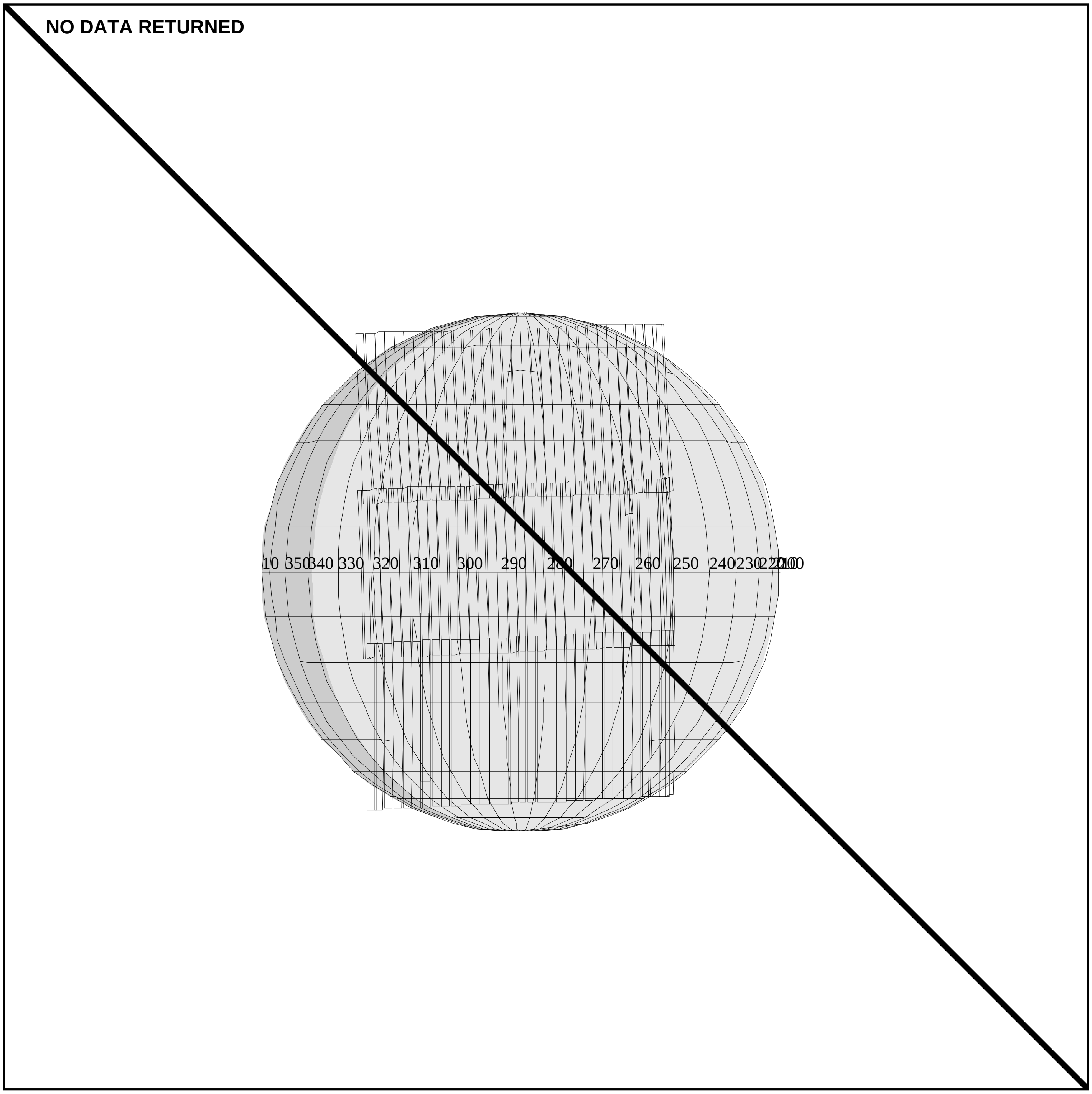

165DY:TT= 0 TMC= 1 C= 9.00 XC= 9.50 BS= 0/3969 TC= 3
A= 728 pD= 0 SR=17.450 RA50=254.59 DEC50=-24.02 cone=154.36 clock= 90.59
117DY:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/3969
1:#s= 3 Cs= -14.50 XCs= 0.00 Cr= 18.40 XCr= -9.00 sD= 456 rD= 38

C3ENPHINEA01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3ENPHINEA01

TARGET BODY : EUROPA

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:EEE 96-311/18:50:15.600 -CDS 263:00:0

OBSERVATION:C3ENPHINEA01

THINNING:NIM 2

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

DESCRIP:EUROPA GLOBAL MOSIAC ONE

EUROPA GLOBAL MOSAIC ONE

ACTIVITY ID: C3ENPHINEA01-
START TIME: 96-311/14:12:12.333

Activity ID: Orbit C3 Target E Inst N OAPEL PHINEA SeqNo 01 -

Title	EUROPA GLOBAL MOSAIC ONE			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System CDS Load ID C3A Calendar Date 11/06/96 Week 45

Start	EEE-CDS 00000267:00:0	96-311/14:12:12.333	EEE-000/04:29:58.000
End	EEE-CDS 00000261:08:0	96-311/14:18:11.000	EEE-000/04:23:59.333
Duration	00000005:83:0	000/00:05:58.667	000/00:05:58.667

Top Label C3ENPHINEA01-
Bottom Label GLOBAL ONE

Plot Key	NIMS	Type	SCI		
CDS Bytes	194	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

Part of the Global Mosaic of Europa set of observations.
This observation covers longitudes 300-335 DEG at 53 Km/nimsel resolution.

25% cuts:
Orginal objective of the observation was changed to meet BTG allocations.
Reduced scans from 4 to 3 (less latitudinal coverage).
Instrument mode from SM to XM, telemetry rate MPW to LPU and
duration of the observation from 13 RIMS to 5 RIMS.

Processor Halted, No Data Returned

Design Detail

DISTANCE: 100,000 KM	MODE: SM	TRACKS: 0.0284
PHASE: 38 DEG	SLEW RATE: 110 MR/S	TLM: LPU
CONE: 151 DEG	% OVERLAP: 30	LONG COV: 320 - 290 DEG
WAVELENGTHS: 102	NUM. OF STRIPS: 3	LAT COV:N/S 90 DEG
BOOMS: NOT IN F.O.V.	NIMS F.O.V./STRIP: 22	COVERAGE: 20%
ASD: 0.88 DEG	DMS MODE: 7.68	SUB S/C LONG: 284 DEG
RESOLUTION: 50 KM/PIX	AREA COV. IN PIX: 765	SUB S/C LAT:-0.35 DEG
GAIN : 2	INCID ANG :40-119 DEG	EMM ANG:11-90 DEG

Short Map (SM), Gain 2, Grating Start 1, LPU, ESM68, ESM51

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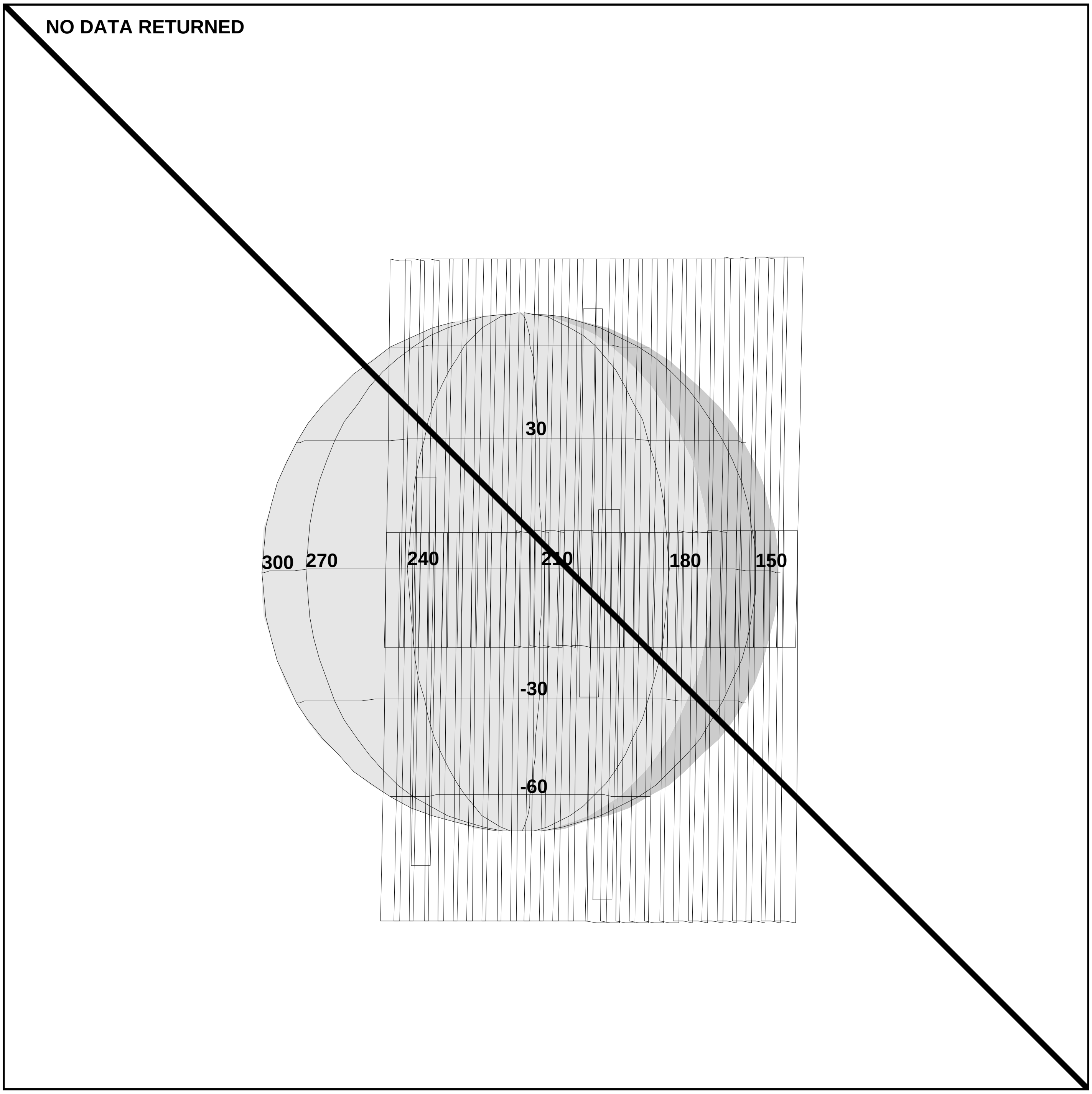

165DZ:TT= 0 TMC= 1 C= -3.40 XC= -3.00 BS= 0/3433 TC= 3
A= 728 pD= 0 SR=17.450 RA50=337.23 DEC50= -8.59 cone=125.76 clock=266.76
117DZ:#SB= 2 OR= 0.030 RR=12.000 BM=F RC= 2 BS= 0/3433
1:#s= 1 Cs= 3.50 XCs= 0.00 Cr= 0.10 XCr= -7.00 sD= 358 rD= 32
2:#s= 1 Cs= 3.50 XCs= 0.00 Cr= -5.16 XCr= 7.15 sD= 358 rD= 32

C3INTHRMAL02

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INTHRMAL02

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:IEE 96-311/12:04:48.266 +CDS 190:00:0

OBSERVATION:C3INTHRMAL02

THINNING:NIM 1

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

DESCRIP:MONITORING OF IO'S NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE	ACTIVITY ID: C3INTHRMAL02-
	START TIME: 96-311/15:12:52.333

Activity ID: Orbit C3 Target I Inst N OAPEL THRMAL SeqNo 02 -

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

Time System	CDS	Load ID	C3A	Calendar Date	11/06/96	Week	45

Start	IEE+CDS	00000186:00:0	96-311/15:12:52.333	IEE+000/03:08:04.000
End	IEE+CDS	00000204:00:0	96-311/15:31:04.333	IEE+000/03:26:16.000
Duration		00000018:00:0	000/00:18:12.000	000/00:18:12.000

Top Label	C3INTHRMAL02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	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.

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 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.

Long Map (LM), Gain 2, Grating Start 0, MPW, ILM442, ILMDK10

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NIMS Software Load	ACTIVITY ID: C3NIMSP2LD03- START TIME: 96-311/15:52:18.333

Activity ID: Orbit C3 Target N Inst I OAPEL MSP2LD SeqNo 03 -

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

Time System CDS Load ID Calendar Date 11/06/96 Week 45

Start	IEE+CDS	00000225:00:0	96-311/15:52:18.333	IEE+000/03:47:30.000
End	IEE+CDS	00000240:00:0	96-311/16:07:28.333	IEE+000/04:02:40.000
Duration		00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label C3NIMSP2LD03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS RAM flight software from CDS.
LOAD_C

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

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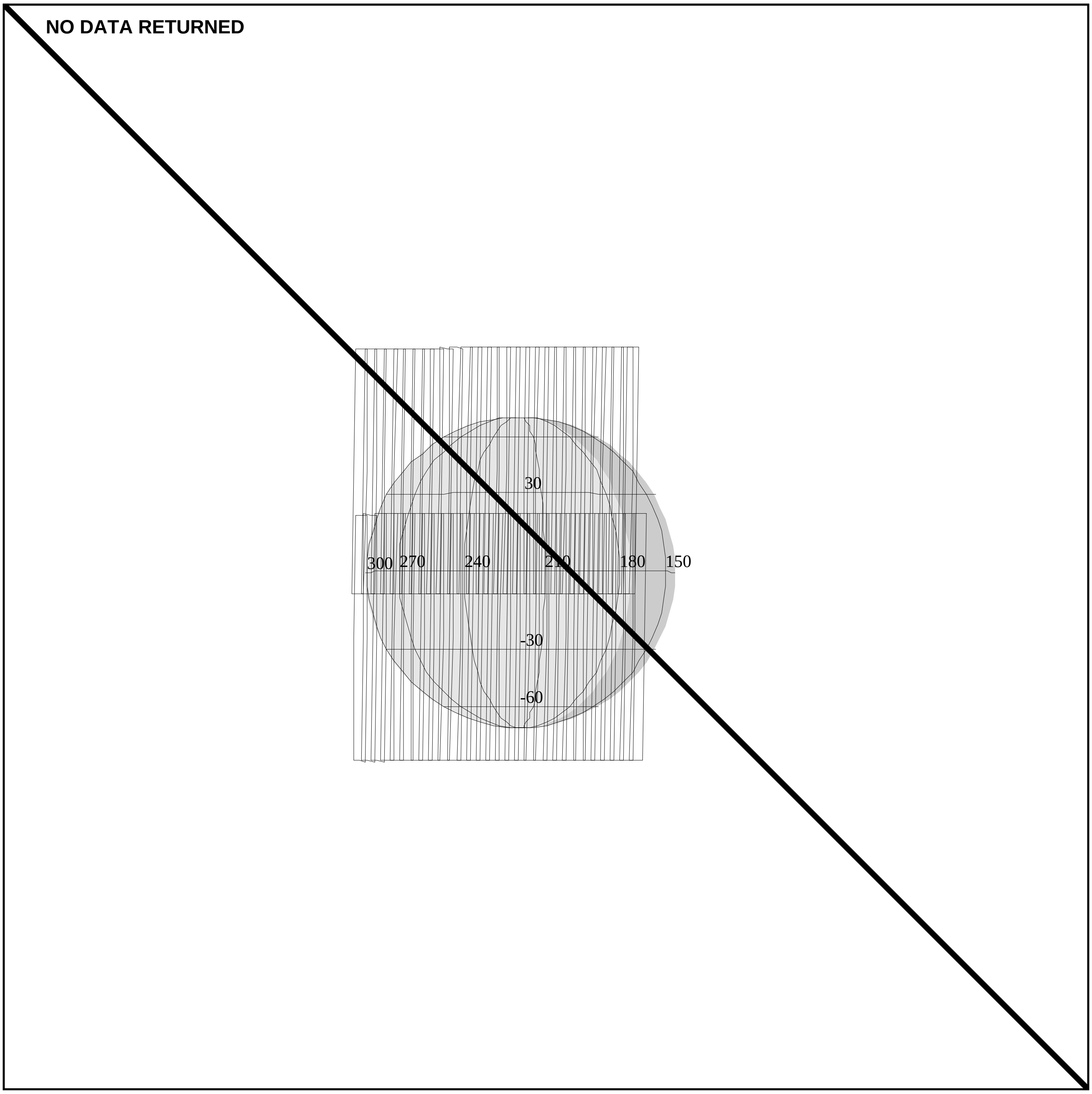
NO DATA RETURNED



165EA:TT= 0 TMC= 1 C= -6.80 XC= -4.00 BS= 0/1987 TC= 3
A= 728 pD= 0 SR=17.450 RA50=339.48 DEC50= -7.66 cone=123.35 clock=266.88
117EA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1987
1:#s= 2 Cs= 7.50 XCs= 0.00 Cr= -11.00 XCr= 7.00 sD= 768 rD= 28

C3INCHEMIS04

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INCHEMIS04

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:IEE 96-311/12:04:48.266 +CDS 237:00:0

OBSERVATION:C3INCHEMIS04

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

DESCRIP:MONITORING OF IO'S DAYSIDE

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: C3INCHEMIS04- START TIME: 96-311/16:00:23.666

Activity ID: Orbit C3 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 C3A Calendar Date 11/06/96 Week 45

Start	IEE+CDS	00000233:00:0	96-311/16:00:23.666	IEE+000/03:55:35.333
End	IEE+CDS	00000250:11:0	96-311/16:17:42.333	IEE+000/04:12:54.000
Duration		00000017:11:0	000/00:17:18.667	000/00:17:18.667

Top Label C3INCHEMIS04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	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).

No Data Returned

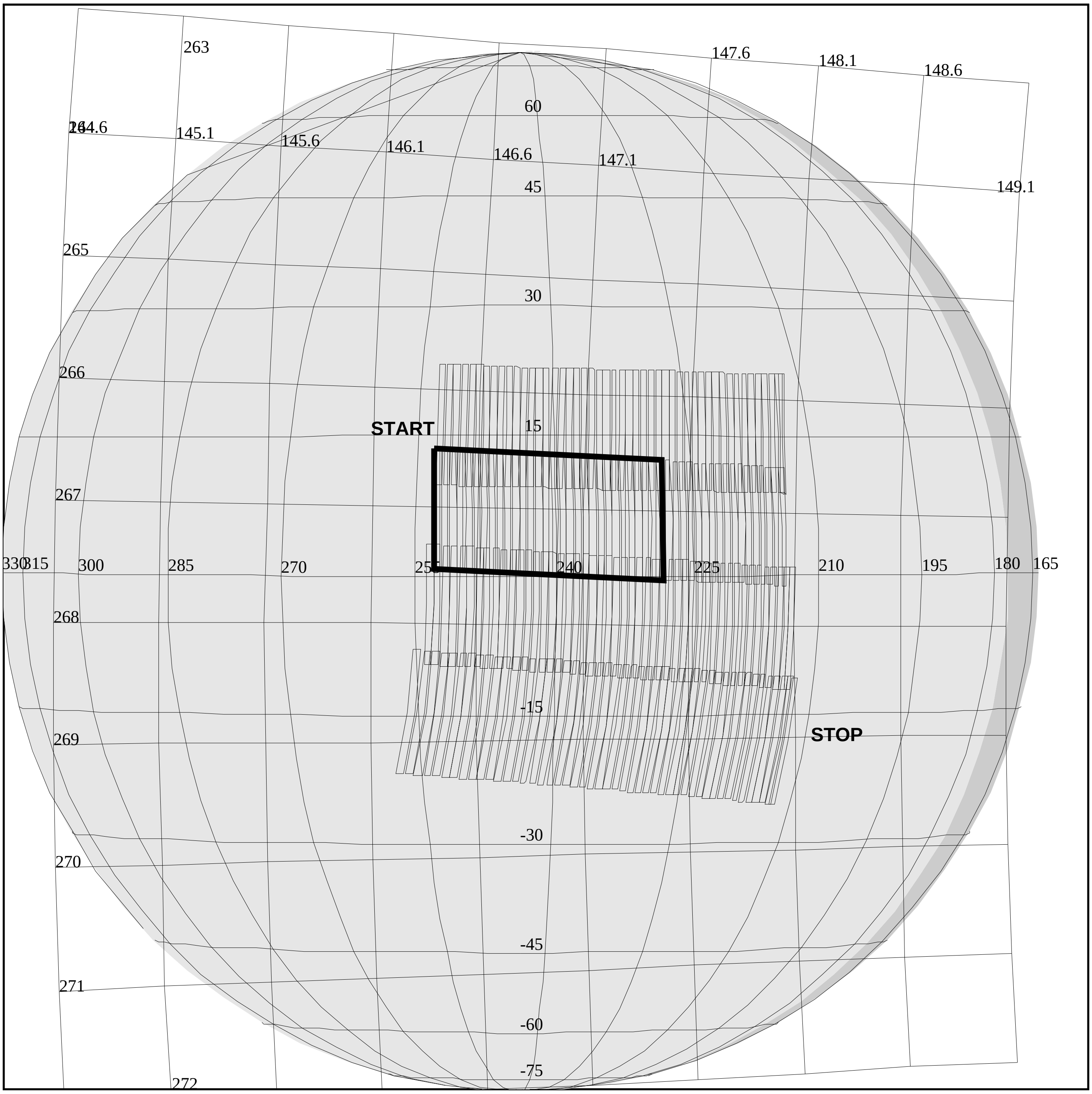
Design Detail

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.

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, ILM442, ILM102

Galileo Activity Plan Form 09/12/96 16:57:43 rev 6/95



165EB:TT=   0 TMC= 1 C=   -7.00 XC= -12.00 BS= 0/8377 TC= 3
A= 728 pD= 9898 SR=17.450 RA50=317.65 DEC50=-16.33 cone=146.37 clock=266.30
117EB:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8377
1:#s= 4 Cs=   24.20 XCs=   0.00 Cr= -30.00 XCr=   7.00 sD= 2458 rD=   22

C3ENLINEA_01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3ENLINEA_01

TARGET BODY :   EUROPA

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:EEE 96-311/18:50:15.600   -CDS 19:00:0

OBSERVATION:C3ENLINEA_01

THINNING:NIM   2

BODY PLOT TIME:TARGET-TIME D= 9898 S= 1.000

DESCRIP:C3 Europa Global Coverage

EUROPA LINEA REGION		ACTIVITY ID:	C3ENLINEA 01-
		START TIME:	96-311/18:21:57.000

Activity ID: Orbit C3 Target E Inst N OAPEL LINEA SeqNo 01 -

Title	EUROPA LINEA REGION			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System CDS Load ID C3A Calendar Date 11/06/96 Week 45

Start	EEE-CDS	00000020:00:0	96-311/18:21:57.000	EEE-000/00:20:13.333
End	EEE+CDS	00000018:82:0	96-311/19:01:16.999	EEE+000/00:19:06.666
Duration		00000038:82:0	000/00:39:19.999	000/00:39:19.999

Top Label C3ENLINEA01-
Bottom Label LINEA / GLOBAL

Plot Key	NIMS	Type	SCI		
CDS Bytes	208	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

Study of region intensely laden with LINEAS at high resolution (16km/nimsel),including low resolution coverage area by Voyager.

25% cuts:
This observation was reduced in latitudinal coverage (from 11 scans to 3 scans), telemetry rate (from MPW to LPU) and observation duration (from 53 RIMS to 38 RIMS).

Data Returned

Design Detail

DISTANCE: 32,000 KM	MODE: LONG MAP	TRACKS:
PHASE: 33.69 DEG	SLEW RATE: 60 MR/S	LONG RG: 200-250 DEG
CONE: 136.82 DEG	% OVERLAP: 10	LAT SPAN: N/S 15 DEG
WAVELENGTHS: 204	NUM STRIPS: 3	COVERAGE: 10 %
RESOLUTION: 16 KM/PIX	NIMS F.O.V.: 244	SUB S/C LONG:231 DEG
BOOMS: NOT IN F.O.V.	DMS MODE: 7.68	SUB S/C LAT:-0.02DEG
ASD: 2.694 DEG	AREA COV IN PIX:	TLM: LPU
GAIN: 2	INCID ANG:21 - 63 deg	EMM ANG: 17 - 24 DEG

Only about 2/3 of the Second Swath Returned.

Long Map (LM), Gain 2, Grating Start 0, LPU, ELM245, ELM204

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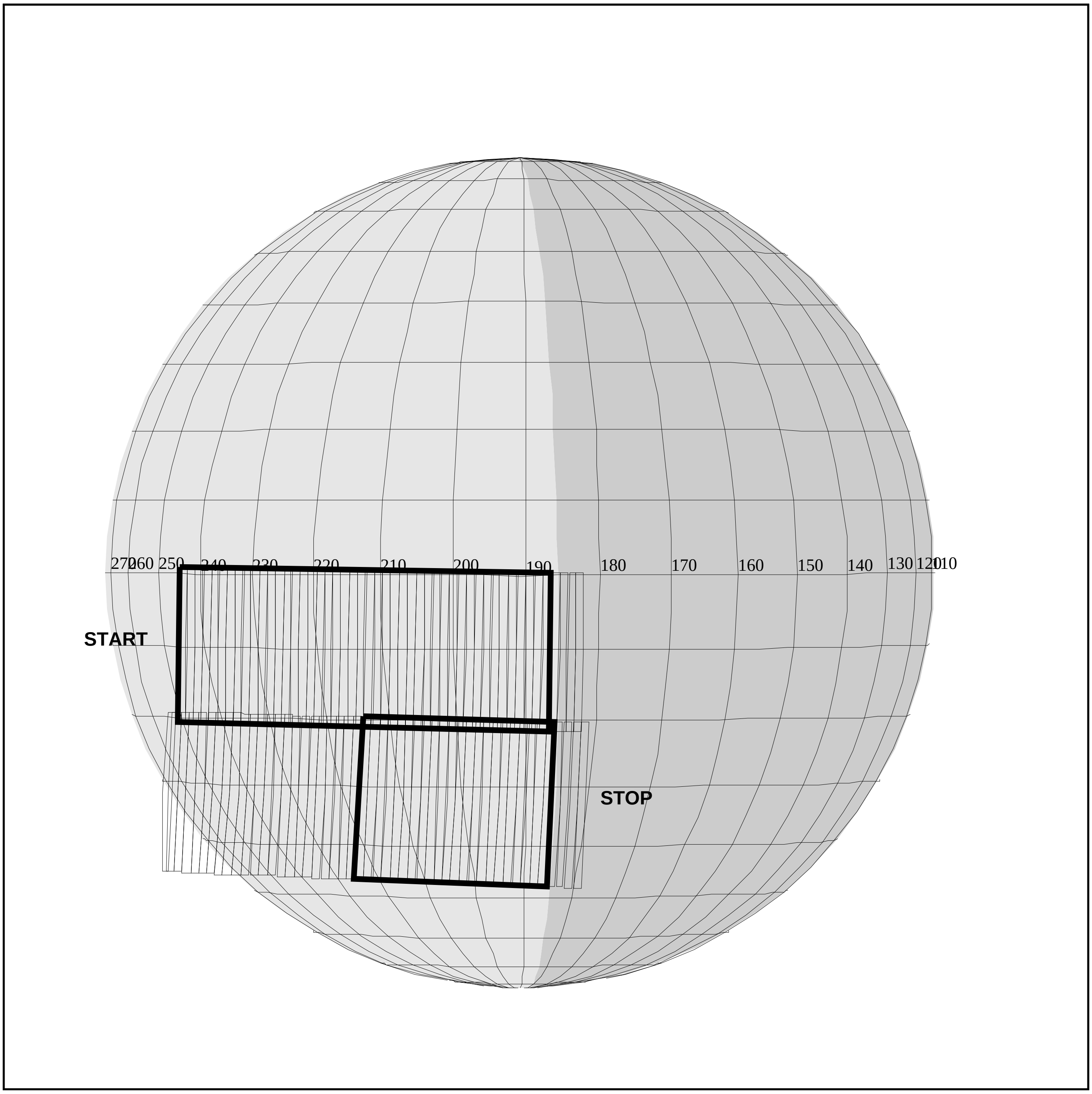


165EC:TT=   0 TMC= 2 C= -22.00 XC=   5.00 BS= 0/3493 TC= 3
A= 182 pD= 2548 SR=17.450 RA50= 16.99 DEC50= 8.23 cone= 82.76 clock=268.66
117EC:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/3493
1:#s= 2 Cs=   25.00 XCs=   0.00 Cr= -25.00 XCr=   9.00 sD= 1258 rD=   32

C3ENELIMB_01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3ENELIMB_01

TARGET BODY :   EUROPA

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM   2

START:EEE 96-311/18:50:15.600   +CDS 119:00:0

BODY PLOT TIME:TARGET-TIME D= 2548 S= 0.800

OBSERVATION:C3ENELIMB_01

DESCRIP:EUROPA OCCULTATION

EUROPA OCCULTATION	ACTIVITY ID: C3ENELIMB 01- START TIME: 96-311/20:41:24.333

Activity ID: Orbit C3 Target E Inst N OAPEL ELIMB SeqNo 01 -

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

Time System CDS Load ID C3A Calendar Date 11/06/96 Week 45

Start	EEE+CDS	00000117:84:0	96-311/20:41:24.333	EEE+000/01:59:14.000
End	EEE+CDS	00000123:87:0	96-311/20:47:30.333	EEE+000/02:05:20.000
Duration		00000006:03:0	000/00:06:06.000	000/00:06:06.000

Top Label C3ENELIMB01-
Bottom Label NIMS

Plot Key	NIMS	Type	SCI		
CDS Bytes	145	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

This observation will be used as a search for outgasing and/or hotspots. Europa is occulting Jupiter with leading edge.

This observation has been coordinated with SSI to cover the same region.

25% reduction:
Duration and coverage was reduced to comply with bits to ground (BTG) constraints. These changes produced a change in the observation objective, so this observation is no longer a limb scan but a compositional mapping of the Linea region. Telemetry rate was reduced from MPW to LPU, and observation duration from 19 RIMS to 6 RIMS.

Data Returned

Design Detail

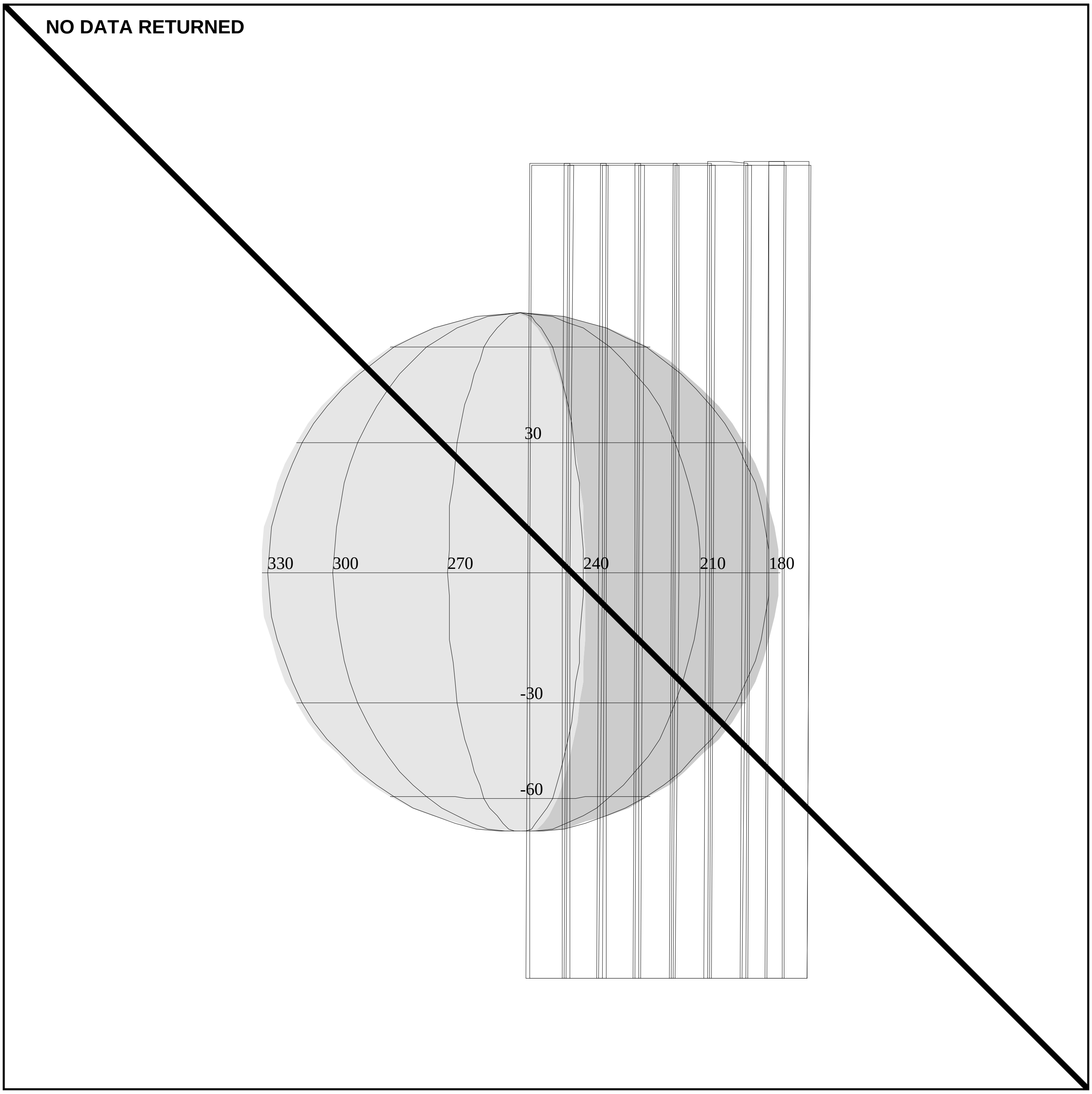
DISTANCE: 55,500 KM	MODE: FULL MAP	TRACKS:
PHASE: 86.87 DEG	SLEW RATE: 60 MR/S	LONG SPAN:190 - 200 DEG
CONE 82 DEG	% OVERLAP: 10	LAT SPAN: +10 to -19 DEG
WAVELENGTHS: 102	NUM OF STRIPS: 2	COVERAGE: 8 %
RESOLUTION: 28 KM/PIX	NIMS F.O.V/STRIP: 17	SUB S/C LONG:186 DEG
DMS MODE: 7.68	SUB S/C LAT: 0.27 DEG	ASD: 1.6 DEG
AREA COV IN PIX: 3106	TLM:LPU	INCID ANG: 40-90 DEG
EMM ANG: 13-90 DEG	GAIN: 3	

BOOMS:ON THE EDGE OF NIMS F.O.V.

All of First Swath and Half of Second Swath Returned.

Full Map (FM), Gain 3, Grating Start 0, LPU, EFM126, EFM102

Galileo Activity Plan Form 09/12/96 16:57:44 rev 6/95



165EH:TT= 0 TMC= 1 C= 0.15 XC= 0.00 BS= 0/4979 TC= 3
A= 182 pD= 0 SR=17.450 RA50= 7.04 DEC50= 4.18 cone= 93.44 clock=268.15
117EH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4979
1:#s= 2 Cs= 1.80 XCs= 0.00 Cr= -3.25 XCr= 0.00 sD= 194 rD= 16

C3INTHRMAL03

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INTHRMAL03

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:IEE 96-311/12:04:48.266 +CDS 693:00:0

OBSERVATION:C3INTHRMAL03

THINNING:NIM 1

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

DESCRIP:MONITORING OF IO’S NIGHTSIDE

MONITORING OF IO'S NIGHTSIDE	ACTIVITY ID: C3INTHRMAL03- START TIME: 96-311/23:45:30.333

Activity ID: Orbit C3 Target I Inst N OAPEL THRMAL SeqNo 03 -

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

Time System	CDS	Load ID	C3A	Calendar Date	11/06/96	Week	45

Start	IEE+CDS	00000693:00:0	96-311/23:45:30.333	IEE+000/11:40:42.000
End	IEE+CDS	00000699:00:0	96-311/23:51:34.333	IEE+000/11:46:46.000
Duration		00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label C3INTHRMAL03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	131	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	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.

No Data Returned

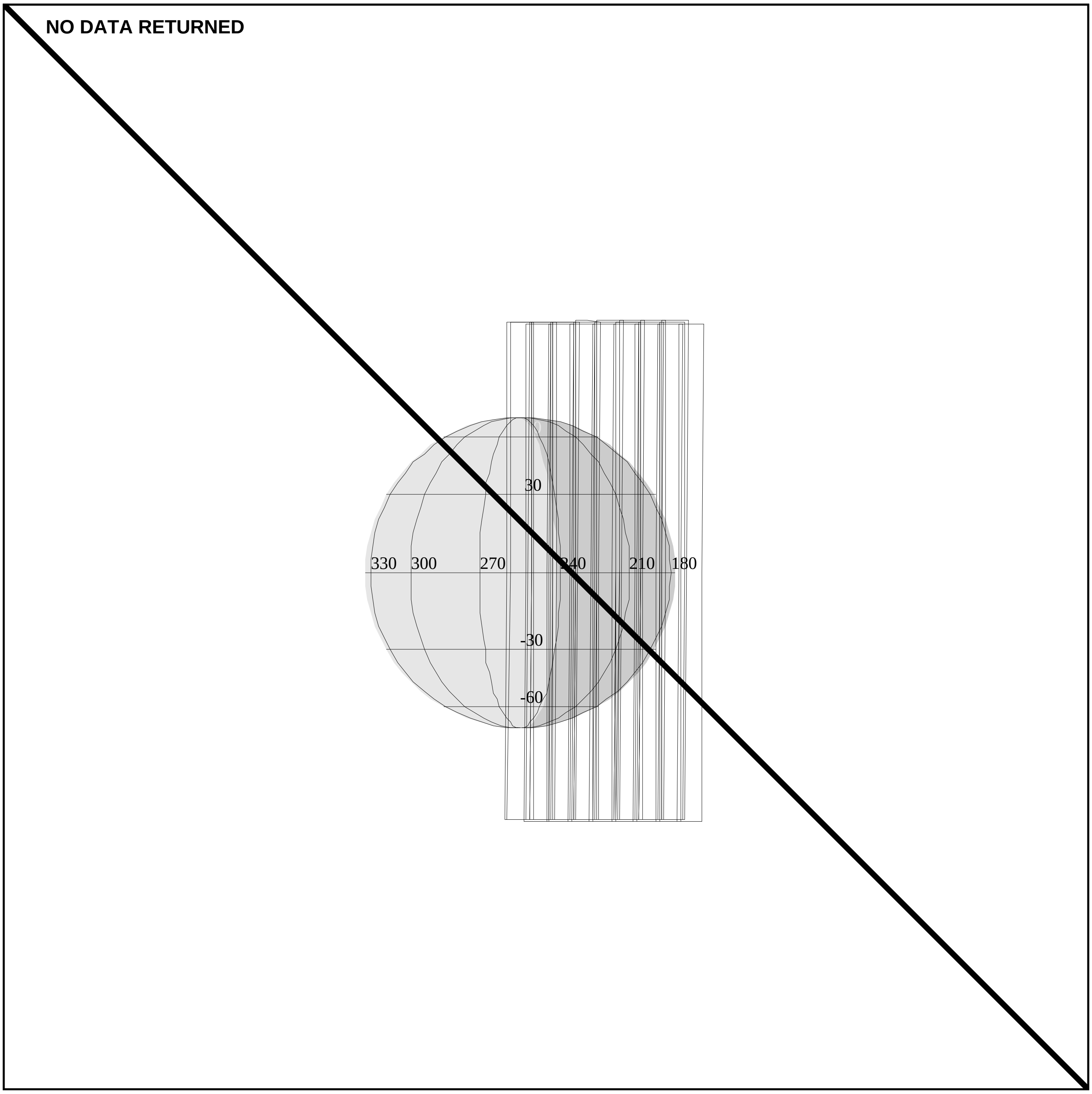
Design Detail

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.

Long Map (LM), Gain 4, Grating Start 0, LPU, ILM245, ILM102

Galileo Activity Plan Form 09/12/96 16:57:45 rev 6/95



165EI:TT= 0 TMC= 1 C= 0.13 XC= 0.00 BS= 0/7163 TC= 3
A= 546 pD= 0 SR=17.450 RA50= 7.82 DEC50= 4.54 cone= 92.58 clock=268.17
117EI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7163
1:#s= 3 Cs= 2.00 XCs= 0.00 Cr= -3.70 XCr= 0.00 sD= 204 rD= 16

C3INVOLCAN01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INVOLCAN01

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:IEE 96-311/12:04:48.266 +CDS 705:00:0

OBSERVATION:C3INVOLCAN01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

DESCRIP:MONITORING OF SELECTED VOLCANIC

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: C3INVOLCAN01-
START TIME: 96-311/23:57:38.333

Activity ID: Orbit C3 Target I Inst N OAPEL VOLCAN SeqNo 01 -

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

Time System CDS Load ID C3A Calendar Date 11/06/96 Week 45

Start	IEE+CDS	00000705:00:0	96-311/23:57:38.333	IEE+000/11:52:50.000
End	IEE+CDS	00000715:00:0	96-312/00:07:44.999	IEE+000/12:02:56.666
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label C3INVOLCAN01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

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

No Data Returned

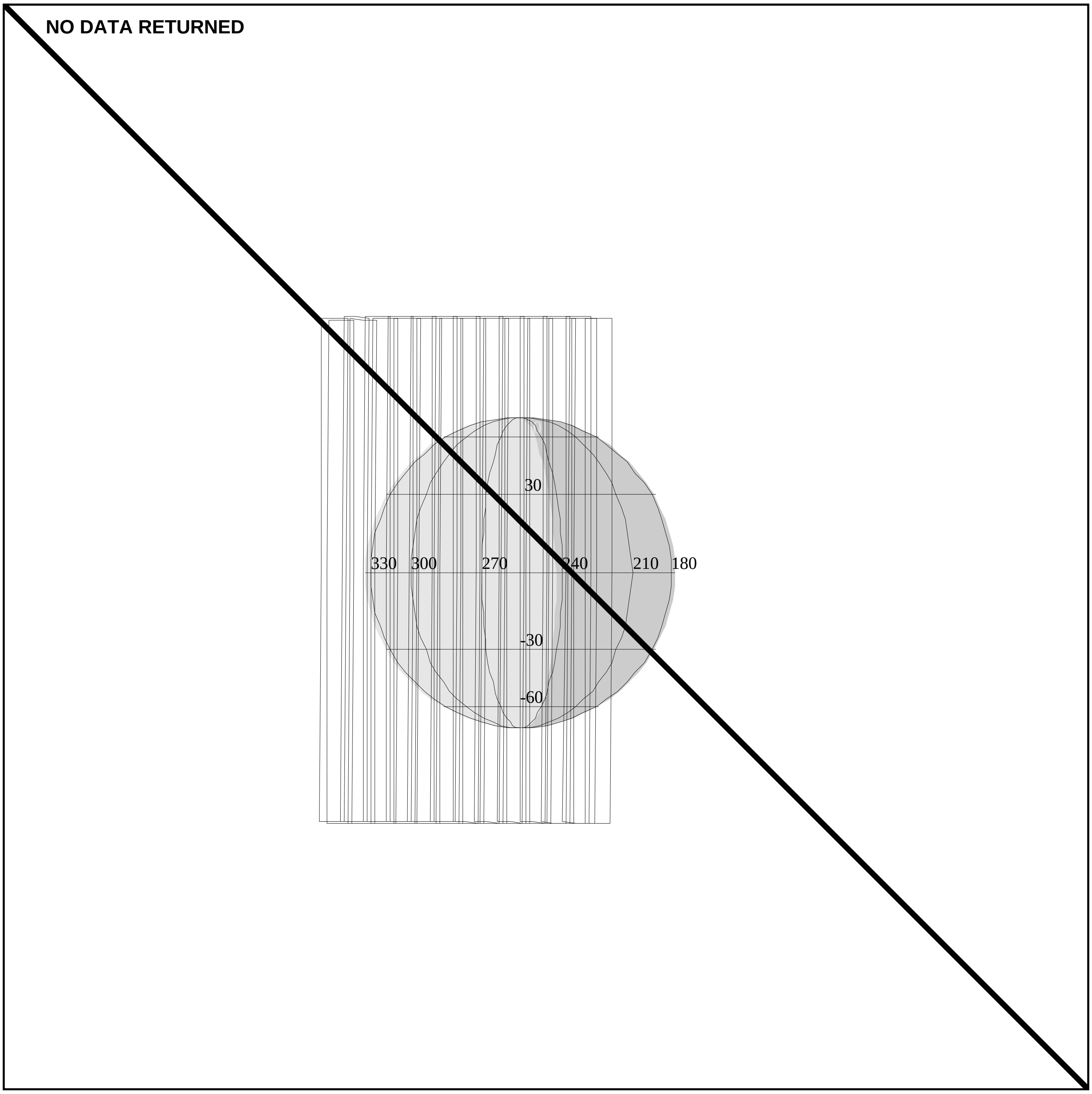
Design Detail

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.

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, ILM245, ILM102

Galileo Activity Plan Form 09/12/96 16:57:45 rev 6/95



165EG:TT= 0 TMC= 1 C= -3.80 XC= 0.00 BS= 0/8983 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 8.68 DEC50= 4.93 cone= 91.63 clock=268.18
117EG:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8983
1:#s= 2 Cs= 3.10 XCs= 0.00 Cr= -5.55 XCr= 0.00 sD= 322 rD= 16

C3INCHEMIS05

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3INCHEMIS05

TARGET BODY : IO

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:IEE 96-311/12:04:48.266 +CDS 715:00:0

OBSERVATION:C3INCHEMIS05

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.300

DESCRIP:MONITORING OF IO'S DAYSIDE

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: C3INCHEMIS05- START TIME: 96-311/23:08:05.666

Activity ID: Orbit C3 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 C3A Calendar Date 11/06/96 Week 45

Start	IEE+CDS 00000656:00:0	96-311/23:08:05.666	IEE+000/11:03:17.333
End	IEE+CDS 00000671:00:0	96-311/23:23:15.666	IEE+000/11:18:27.333
Duration	00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label C3INCHEMIS05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	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).

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.

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, ILM245, ILM102

Galileo Activity Plan Form 09/12/96 16:57:44 rev 6/95

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C3 Health 6	ACTIVITY ID: C3NNHEALTH06- START TIME: 96-312/01:18:31.666

Activity ID: Orbit C3 Target N Inst N OAPEL HEALTH SeqNo 06 -

Title	C3 Health 6			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/07/96	Week	45

Start	CEE+CDS	00003549:00:0	96-312/01:18:31.666	CEE+002/11:48:26.000
End	CEE+CDS	00003552:00:0	96-312/01:21:33.666	CEE+002/11:51:28.000
Duration		00000003:00:0	000/00:03:02.000	000/00:03:02.000

Top Label C3NNHEALTH06
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

Realtime Instrument Health observation.
Required to verify instrument operation.
These observations provide a 3 detector view of the instrument.
The detectors are selected such that a bright and a dark channel will exist for either a satellite or Jupiter for a target.
The observations are spaced approximately 24 hours apart.

Data Returned

Design Detail

Acquire 1 grating cycle at the end of previous mosaic.

Long Map (LM), Gain 2, Grating Start 0, RT , RT003

Galileo Activity Plan Form 09/12/96 16:57:45 rev 6/95

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NIMS Software Load	ACTIVITY ID: C3NIMSP2LD04- START TIME: 96-312/02:24:14.999

Activity ID: Orbit C3 Target N Inst I OAPEL MSP2LD SeqNo 04 -

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

Time System	CDS	Load ID		Calendar Date	11/07/96	Week 45

Start	IEE+CDS	00000850:00:0	96-312/02:24:14.999	IEE+000/14:19:26.666
End	IEE+CDS	00000865:00:0	96-312/02:39:24.999	IEE+000/14:34:36.666
Duration		00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label C3NIMSP2LD04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

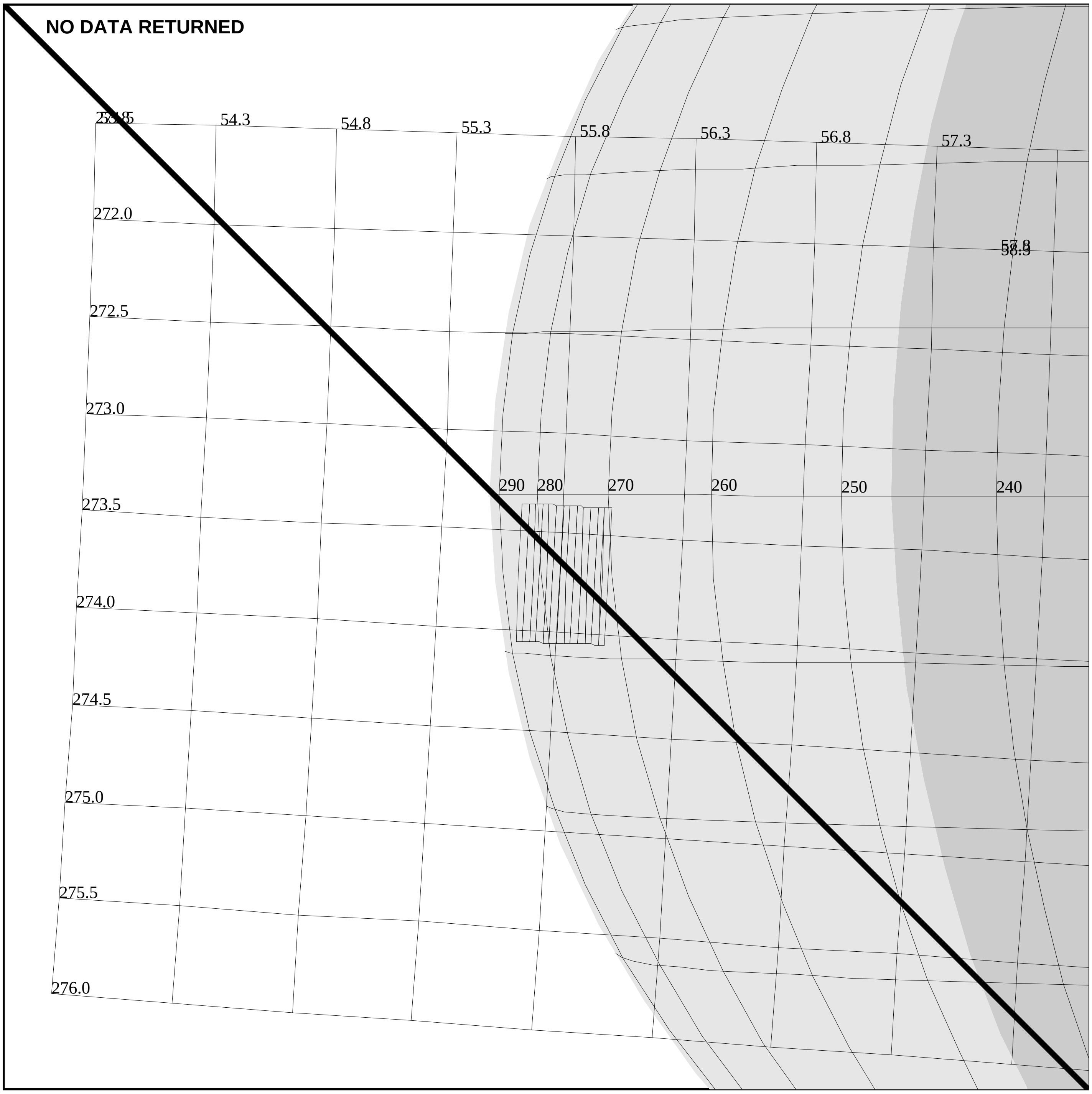
Reload NIMS RAM flight software from CDS.
LOAD_D

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

Long Map (LM), Gain 4, Grating Start 0, LPU, CLM245, CLM204

Galileo Activity Plan Form 09/12/96 16:57:46 rev 6/95



165EJ:TT= 0 TMC= 1 C= -6.00 XC= 0.00 BS= 0/6495 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 59.64 DEC50= 22.20 cone= 55.65 clock=273.70
117EJ:#SB= 2 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/6495
1:#s= 1 Cs= 57.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1744 rD= 2
2:#s= 1 Cs= 12.40 XCs= 0.00 Cr= -62.00 XCr= 0.40 sD= 380 rD= 40

C3JNFEA13601A

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA13601A

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JTA 96-310/11:04:19.000 +CDS 2515:00:0

OBSERVATION:C3JNFEA13601A

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000

DESCRIP:Jupiter Campaign Feature 136dg 1

Jupiter Campaign Feature 129 phase prt 1 ACTIVITY ID: C3JNFEA13601-
START TIME: 96-312/05:23:13.000

Activity ID: Orbit C3 Target J Inst N OAPEL FEA136 SeqNo 01 -

Title	Jupiter Campaign Feature 129 phase prt 1		Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group	AWG

Time System CDS Load ID C3A Calendar Date 11/07/96 Week 45

Start	JTA+CDS	00002511:00:0	96-312/05:23:13.000	JTA+001/18:18:54.000
End	JTA+CDS	00002527:00:0	96-312/05:39:23.666	JTA+001/18:35:04.666
Duration		00000016:00:0	000/00:16:10.666	000/00:16:10.666

Top Label C3JNFEA13601-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	169	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. The South Equatorial Belt is scanned twice on a rotation during phase angle ~ 129 degrees. Jupiter imaged in 15 colors, using NIMS wavelength playback table JFT15A. The two scans acquired with feature near the bright limb and near minimum airmass assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III). NIMAGING occurs during a science turn.

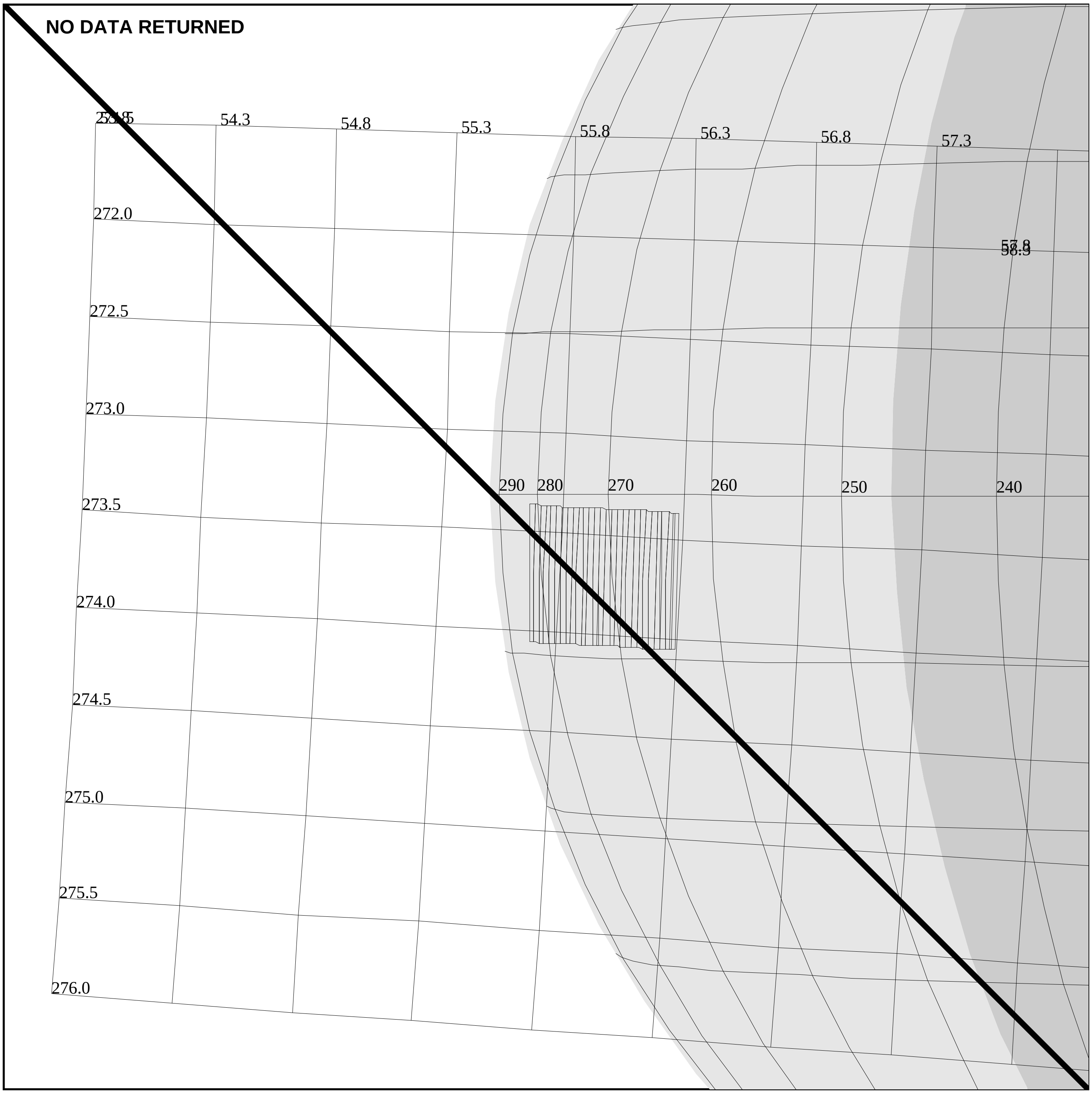
Processor Halted, No Data Returned

Design Detail

Two shortmap, Nyquist-sampled observations of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 0.90 X 10^6 km; NIMS IFOV (NIMSel) = 450 km; 1 X 1 image covers 9000 X 9000 km. About 2 minutes of scanning on each scan, accumulating a total of 0.1744 MBTG in 15 colors and using 0.0080 tracks. The second scan and SCIREC begin at 96-311/07:39, i.e. the original scanning start time of the original OAPEL C3JNFEA13602. Four minutes reserved for targetting.
JTA - JEE epoch offset of -120 RIMS assumed.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:46 rev 6/95



165EJ:TT= 0 TMC= 1 C= -6.00 XC= 0.00 BS= 0/6495 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 59.64 DEC50= 22.20 cone= 55.65 clock=273.70
117EJ:#SB= 2 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/6495
1:#s= 1 Cs= 57.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1744 rD= 2
2:#s= 1 Cs= 12.40 XCs= 0.00 Cr= -62.00 XCr= 0.40 sD= 380 rD= 40

C3JNFEA13601B

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA13601B

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS: **THINNING:NIM 2**

START:JTA 96-310/11:04:19.000 +CDS 2515:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000**

OBSERVATION:C3JNFEA13601B **DESCRIP:Jupiter Campaign Feature 136dg 1**

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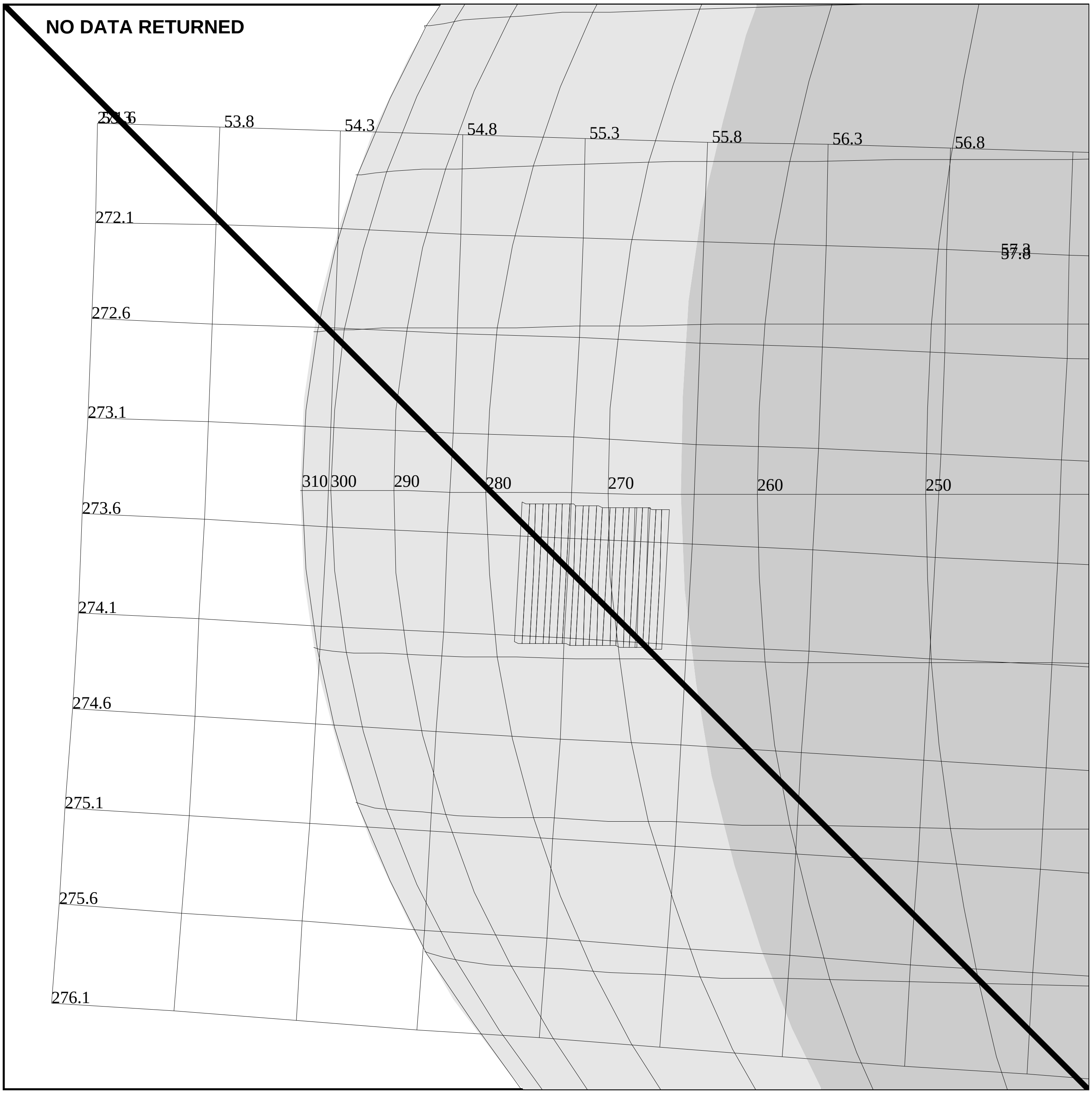


165EK:TT= 0 TMC= 1 C= -5.50 XC= 0.00 BS= 0/1955 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 60.23 DEC50= 22.29 cone= 55.10 clock=273.75
117EK:#SB= 1 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/1955
1:#s= 1 Cs= 10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 308 rD= 2

C3JNFEA13603

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA13603

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JTA 96-310/11:04:19.000 +CDS 2545:00:0

OBSERVATION:C3JNFEA13603

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000

DESCRIP:Jupiter Campaign Feature 136dg 3

```
Jupiter Campaign Feature 129 phase prt 3 ACTIVITY ID:   C3JNFEA13603-
                                          START TIME:   96-312/05:53:33.000

Activity ID: Orbit C3  Target J  Inst N  OAPEL FEA136  SeqNo 03 -

Title        Jupiter Campaign Feature 129 phase prt 3Instrument      NIMS
Requestor    NIMS-AWG/K. BAINES        Team   NIMS  Working Group    AWG

Time System  CDS       Load ID  C3A     Calendar Date  11/07/96  Week  45

Start        JTA+CDS 00002541:00:0 96-312/05:53:33.000   JTA+001/18:49:14.000
End          JTA+CDS 00002546:85:0 96-312/05:59:33.000   JTA+001/18:55:14.000
Duration             00000005:85:0    000/00:06:00.000       000/00:06:00.000

Top Label    C3JNFEA13603-
Bottom Label

Plot Key     NIMS      Type            SCI
CDS Bytes         82   Report Options  BOTH         Scan Platform      Yes
CDS Source   OAP       Spin State      ALL          DMS                Yes
```

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. This is the second OAPEL and third observation obtained on a rotation during phase angle ~ 129 degrees. Jupiter imaged in 15 colors, using NIMS wavelength playback table JFT15A. This observation acquired with feature near terminator, assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III). NIMAGING occurs during a science turn.

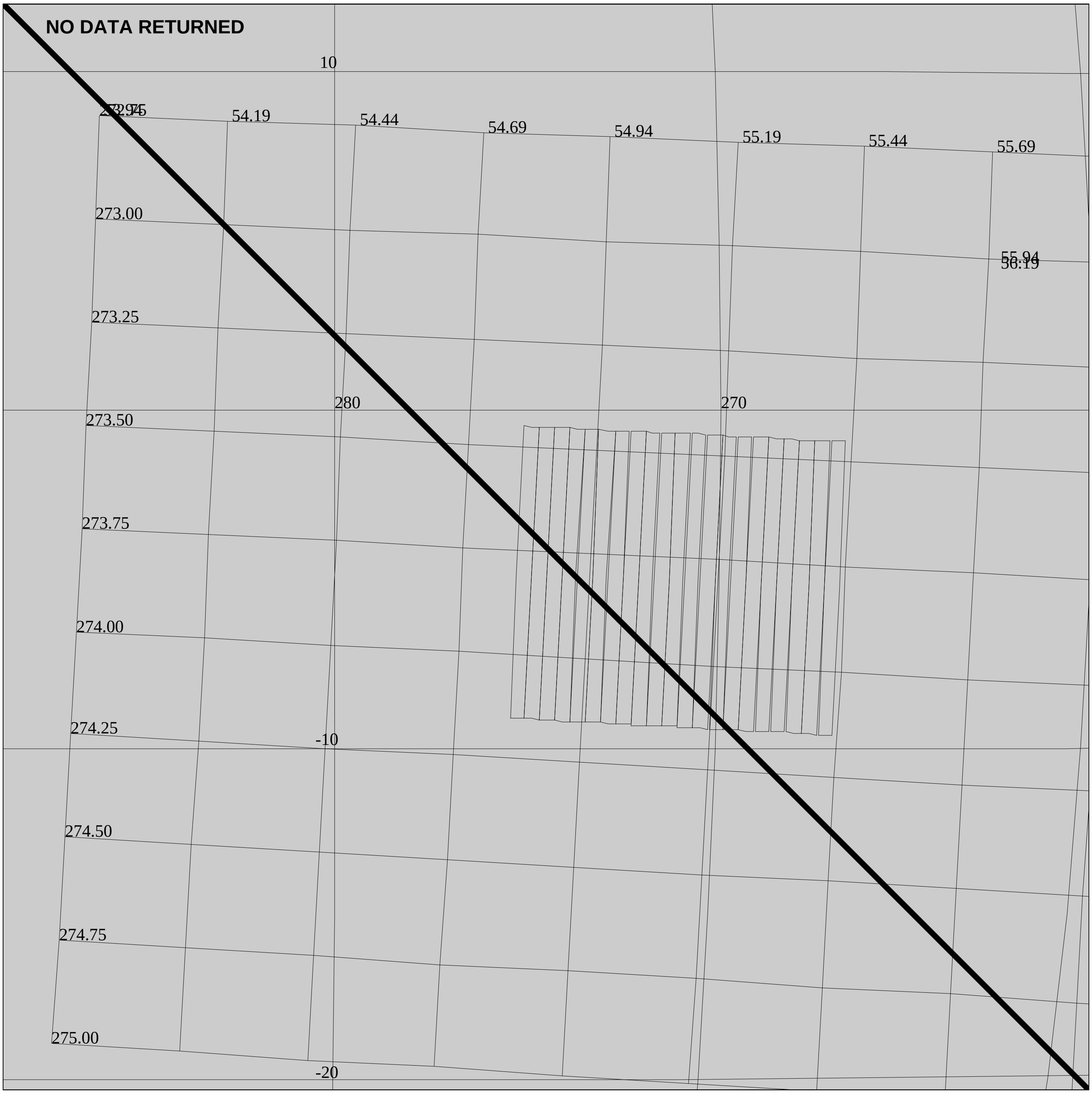
Processor Halted, No Data Returned

Design Detail

Shortmap, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 0.91 X 10^6 km; NIMS IFOV (NIMSel) = 455 km; 1 X 1 image covers 9100 X 9100 km. About 2 minutes of scanning accumulating 0.0872 MBTG in 15 colors and using 0.0040 tracks. Four minutes reserved for targetting.
JTA - JEE epoch offset of -120 RIMS assumed.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form   09/12/96 16:57:46   rev 6/95



165EL:TT= 0 TMC= 1 C= -5.50 XC= 0.00 BS= 0/8699 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 60.55 DEC50= 22.32 cone= 54.80 clock=273.81
117EL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8699
1:#s= 2 Cs= 10.60 XCs= 0.00 Cr= -10.80 XCr= 0.00 sD= 1070 rD= 20

C3JNFEA53M01A

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA53M01A

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JTA 96-310/11:04:19.000 +CDS 2637:00:0

OBSERVATION:C3JNFEA53M01A

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 4.000

DESCRIP:Jupiter Campaign Feat 5u 3u map

Jupiter Campaign Ftr. 5 and 3 micron map ACTIVITY ID: C3JNFEA53M01-
START TIME: 96-312/07:26:34.333

Activity ID: Orbit C3 Target J Inst N OAPEL FEA53M SeqNo 01 -

Title	Jupiter Campaign Ftr. 5 and 3 micron map	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System CDS Load ID C3A Calendar Date 11/07/96 Week 45

Start	JTA+CDS	00002633:00:0	96-312/07:26:34.333	JTA+001/20:22:15.333
End	JTA+CDS	00002654:00:0	96-312/07:47:48.333	JTA+001/20:43:29.333
Duration		00000021:00:0	000/00:21:14.000	000/00:21:14.000

Top Label C3JNFEA53M01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	169	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

High spectral resolution 5-micron and 3-micron night time maps of trace species within the South Equatorial Belt Campaign Feature obtained during the ~ 129 degrees rotation. The first scan is a 5 micron map. Jupiter mapped in 80 wavelengths specified by NIMS wavelength table J5M80B, which includes 80 wavelengths from 4.28 to 5.22 microns. The second scan is a 3 micron map, using 80 wavelengths specified by wavelength table J3M80B, which includes 80 wavelengths from 2.50 to 3.44 microns. Assumed feature coordinates: -5.5 degrees south latitude and 271 degrees west longitude (System III). NIMAGING occurs during a scienced turn.

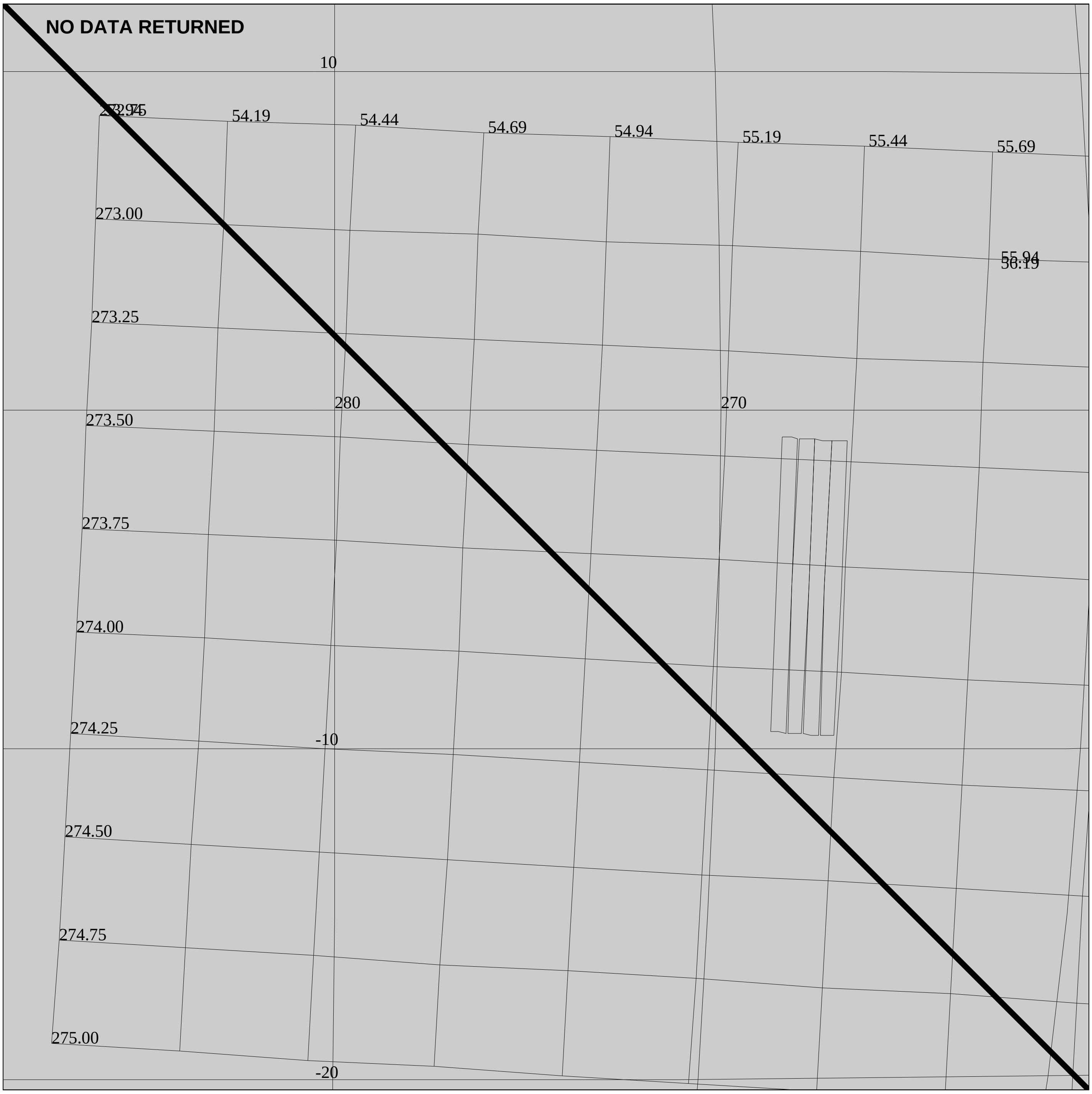
Processor Halted, No Data Returned

Design Detail

Two longmap, Nyquist-sampled observations of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 0.94 X 10^6 km, covers 9400 X 9400 km. Each scan encompasses about 6 minutes of scanning, accumulating 0.363 MBTG and using 0.0121 tracks.
Four minutes reserved for targetting.
Total OAPEL downlink: 0.726 MBTG, using 0.0242 tracks.
Second scan (3 micron observation) begins at 09:43, corresponding to begin scan start time of the original OAPEL C3JNFEA3UM01.
Second SCIREC and second NIMS wavelength table start at that time.
Note: 6/26 - JTA - JEE epoch offset of -120 RIMS now assumed.

Long Map (LM), Gain 4, Grating Start 0, LPU, J35160, J35160

Galileo Activity Plan Form 09/12/96 16:57:47 rev 6/95



165EL:TT= 0 TMC= 1 C= -5.50 XC= 0.00 BS= 0/8699 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 60.55 DEC50= 22.32 cone= 54.80 clock=273.81
117EL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8699
1:#s= 2 Cs= 10.60 XCs= 0.00 Cr= -10.80 XCr= 0.00 sD= 1070 rD= 20

C3JNFEA53M01B

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA53M01B

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JTA 96-310/11:04:19.000 +CDS 2637:00:0

OBSERVATION:C3JNFEA53M01B

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 4.000

DESCRIP:Jupiter Campaign Feat 5u 3u map

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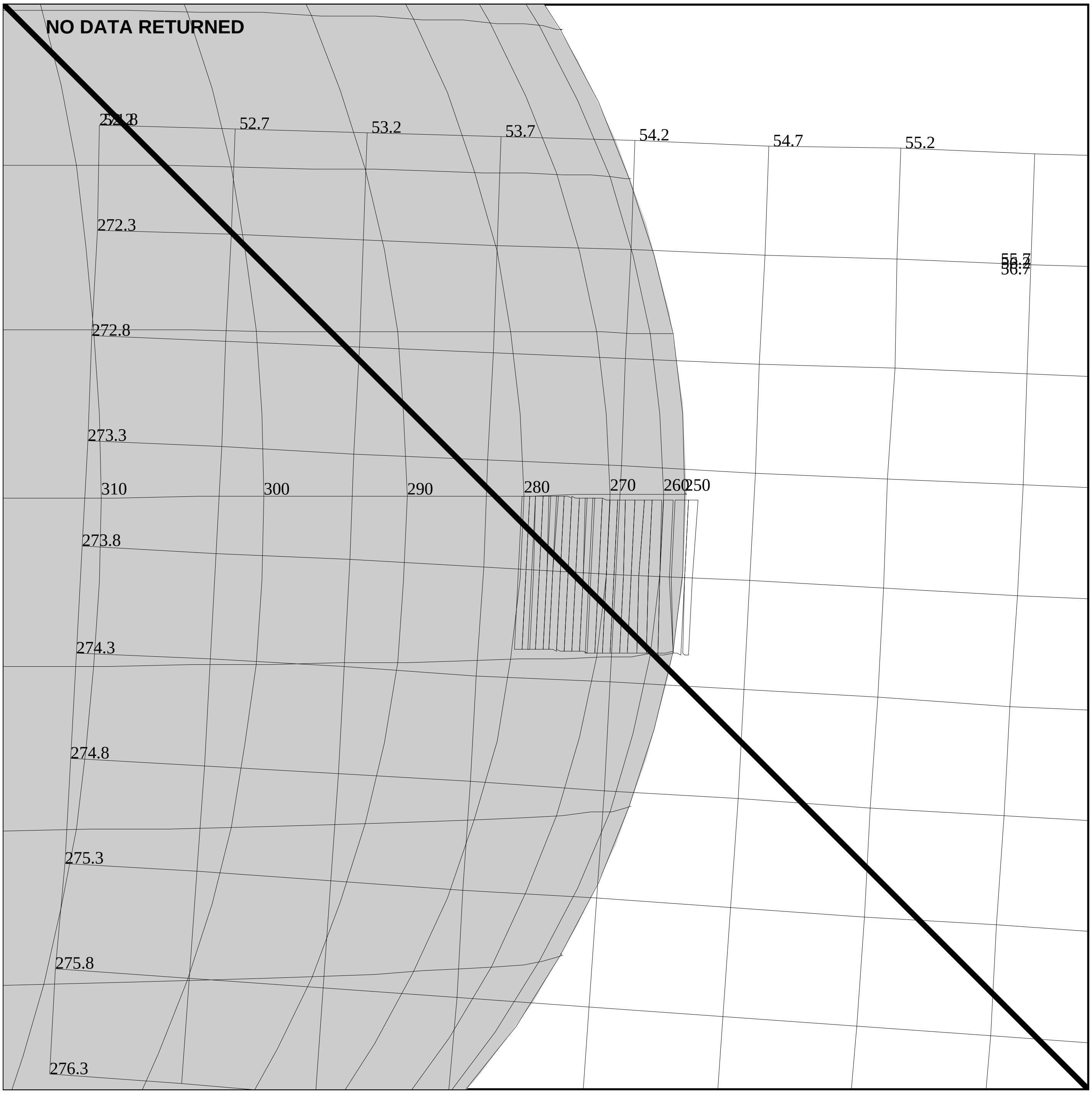


165EM:TT= 0 TMC= 1 C= -5.10 XC= 0.00 BS= 0/5807 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 61.52 DEC50= 22.51 cone= 53.89 clock=273.85
117EM:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/5807
1:#s= 1 Cs= 7.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1070 rD= 2

C3JNFEA5UM02

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA5UM02

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 2

START:JTA 96-310/11:04:19.000 +CDS 2731:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000

OBSERVATION:C3JNFEA5UM02

DESCRIP:Jupiter Campaign Feat 5u map 2

Jupiter Campaign Feature 5um Map	ACTIVITY ID:	C3JNFEA5UM02-
	START TIME:	96-312/09:01:37.000

Activity ID: Orbit C3 Target J Inst N OAPEL FEA5UM SeqNo 02 -

Title	Jupiter Campaign Feature 5um Map			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	C3A	Calendar Date	11/07/96	Week	45

Start	JTA+CDS	00002727:00:0	96-312/09:01:37.000	JTA+001/21:57:18.000
End	JTA+CDS	00002736:81:0	96-312/09:11:37.000	JTA+001/22:07:18.000
Duration		00000009:81:0	000/00:10:00.000	000/00:10:00.000

Top Label	C3JNFEA5UM02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	131	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

High spectral resolution 5-micron night time map of trace species within the Campaign Feature. This second of two complete 4.33-5.22 micron maps (the first was obtained in OAPEL C3JNFEA53M01) obtained at a moderate emission angle (~60 degrees) during the phase angle ~ 129 degrees rotation. Jupiter mapped in the 80 wavelengths specified by NIMS wavelength table J5M80B, which includes 80 wavelengths from 4.28 to 5.22 microns. Assumed feature coordinates: 5.5 degrees south latitude and 271 degrees west longitude (System III). NIMAGING occurs during a science turn.

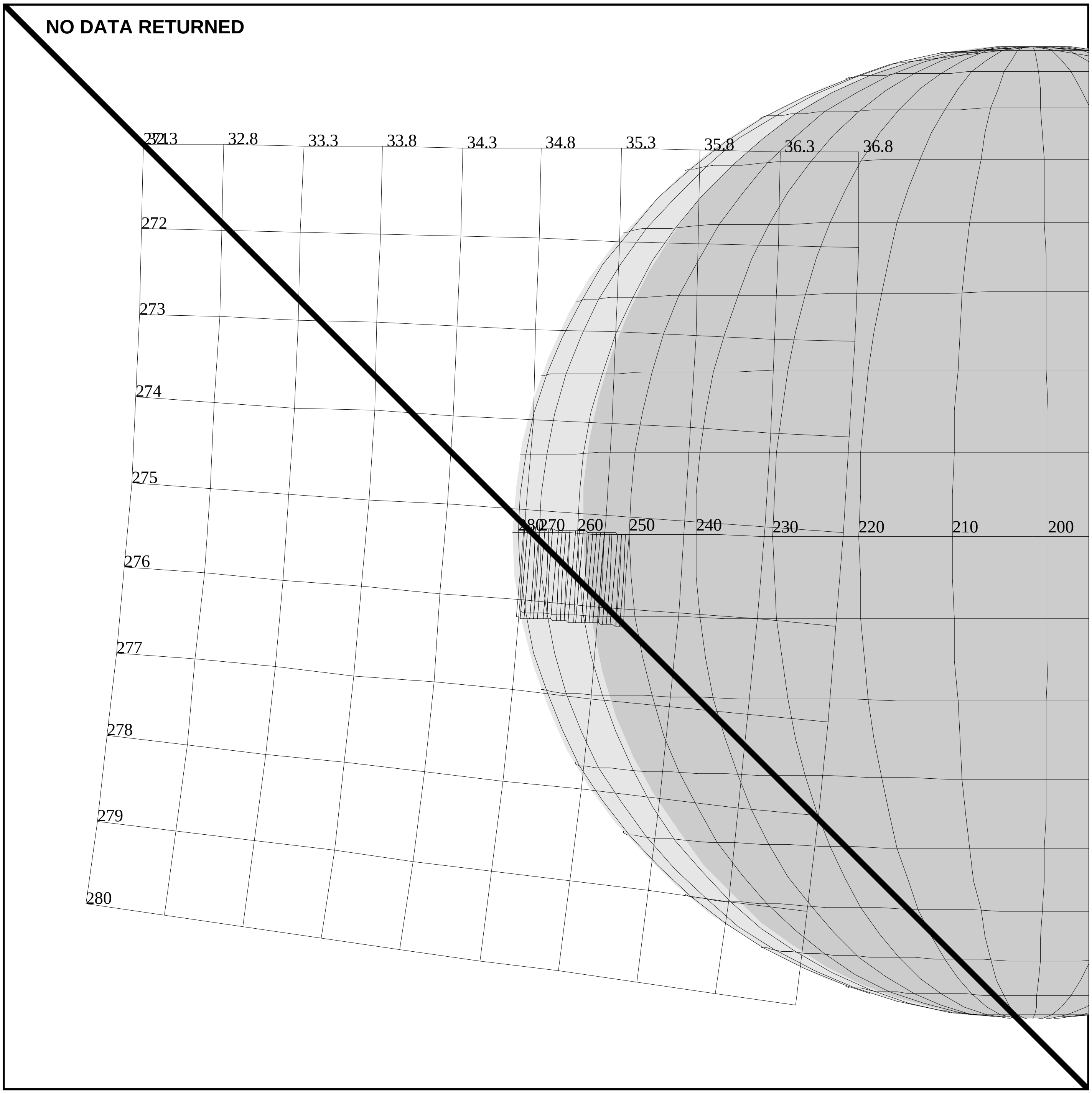
Processor Halted, No Data Returned

Design Detail

Longmap, Nyquist-sampled observation of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 1.0 X 10^6 km, covers 10000 X 10000 km. About 6 minutes of scanning, accumulating 0.363 MBTG and using 0.0121 tracks. Four minutes reserved for targetting.

JTA - JEE epoch offset of -120 RIMS assumed.

Long Map (LM), Gain 4, Grating Start 0, LPU, J5M253B, J5M80B



165EN:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/7332 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 82.34 DEC50= 24.76 cone= 34.74 clock=275.69
117EN:#SB= 2 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/7332
1:#s= 2 Cs= 52.00 XCs= 0.00 Cr= -55.50 XCr= 0.00 sD= 1626 rD= 60
2:#s= 1 Cs= 13.00 XCs= 0.00 Cr= -54.50 XCr= 0.30 sD= 404 rD= 60

C3JNFEA15301A

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA15301A

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JTA 96-310/11:04:19.000 +CDS 3124:00:0

OBSERVATION:C3JNFEA15301A

THINNING:NIM 2

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

DESCRIP:Jupiter Campaign Feature 153dg 1

Jupiter Campaign Feature 150 phase prt 1	ACTIVITY ID: C3JNFEA15301- START TIME: 96-312/15:38:59.000

Activity ID: Orbit C3 Target J Inst N OAPEL FEA153 SeqNo 01 -

Title	Jupiter Campaign Feature 150 phase prt 1	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS Working Group	AWG

Time System CDS Load ID C3A Calendar Date 11/07/96 Week 45

Start	JTA+CDS	00003120:00:0	96-312/15:38:59.000	JTA+002/04:34:40.000
End	JTA+CDS	00003145:00:0	96-312/16:04:15.666	JTA+002/04:59:56.666
Duration		00000025:00:0	000/00:25:16.666	000/00:25:16.666

Top Label C3JNFEA15301-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	169	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

One of 16 OAPELS constituting the feature tracks for this South Equatorial Belt Feature Campaign. South Equatorial Belt scanned three times during phase angle ~ 150 degrees rotation. Jupiter imaged in 4 colors, using NIMS wavelength table JFT04A. This observation acquired with feature near bright limb, near minimum airmass, and near the terminator, assuming feature coordinates 5.5 degrees south latitude and 271 degrees west longitude (System III). NIMAGING occurs during a science turn.

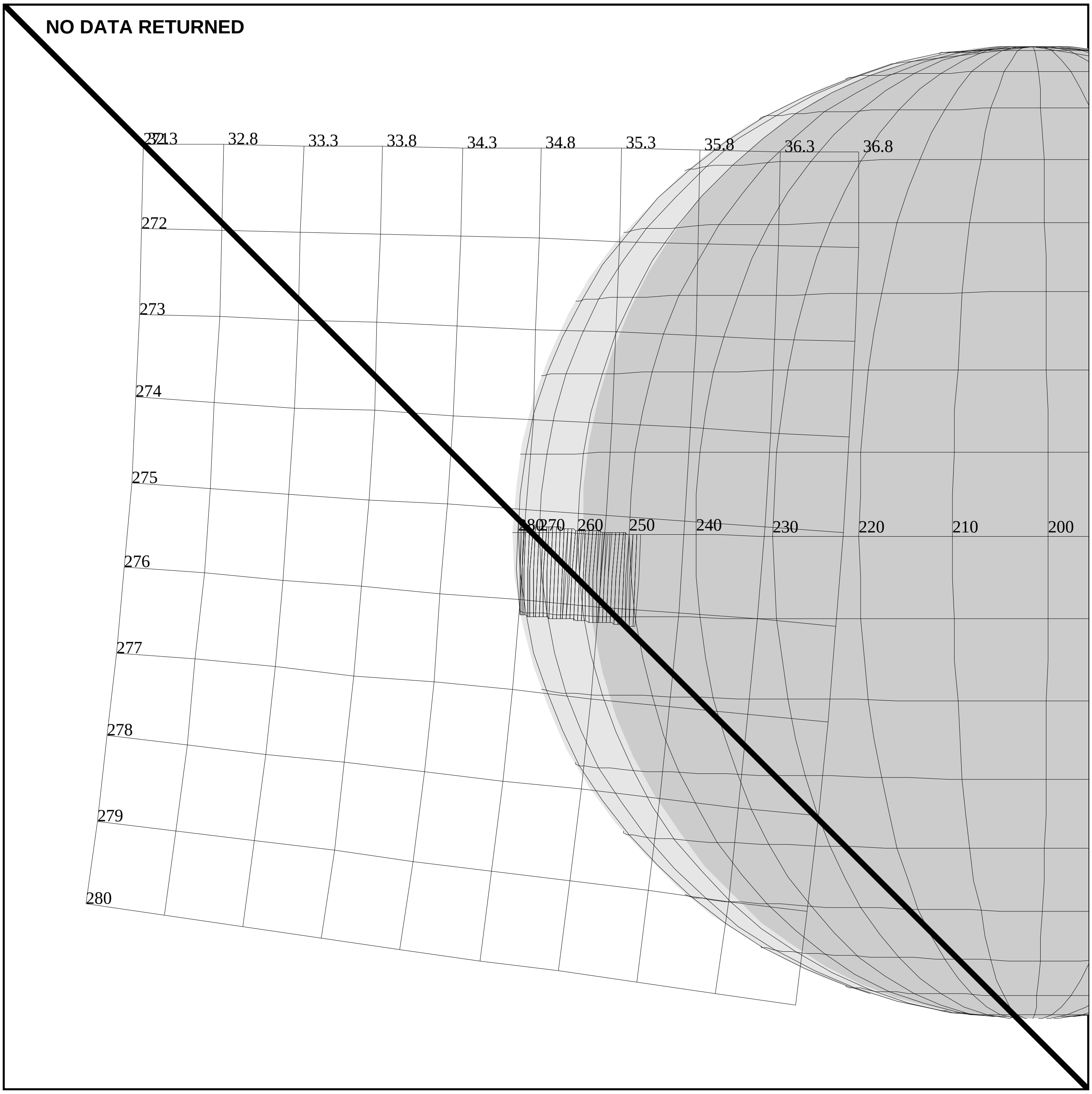
Processor Halted, No Data Returned

Design Detail

Three shortmap, Nyquist-sampled observations of 1 X 1 (10 X 10 mrad) area centered on Campaign Feature. Spacecraft distance about 1.2 X 10^6 km; NIMS IFOV (NIMSel) = 600 km; 1 X 1 image covers 12000 X 12000 km.
Each of the three scans is about 2 minutes accumulating a total of 0.0921 MBTG in 4 colors and using 0.0120 tracks.
The second scan and SCIREC begin at 17:54 (i.e. orginal scan start time of original C3JNFEA15302 OAPEL). The third scan and SCIREC begin at 18:04 (original start scan time of OAPEL C3JNFEA15303).
Four minutes reserved for targetting.
JTA - JEE epoch offset of -120 RIMS assumed.

Short Map (SM), Gain 2, Grating Start 1, LPU, JFT68C, JFT25A

Galileo Activity Plan Form 09/12/96 16:57:48 rev 6/95



165EN:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/7332 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 82.34 DEC50= 24.76 cone= 34.74 clock=275.69
117EN:#SB= 2 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/7332
1:#s= 2 Cs= 52.00 XCs= 0.00 Cr= -55.50 XCr= 0.00 sD= 1626 rD= 60
2:#s= 1 Cs= 13.00 XCs= 0.00 Cr= -54.50 XCr= 0.30 sD= 404 rD= 60

C3JNFEA15301B

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA15301B

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

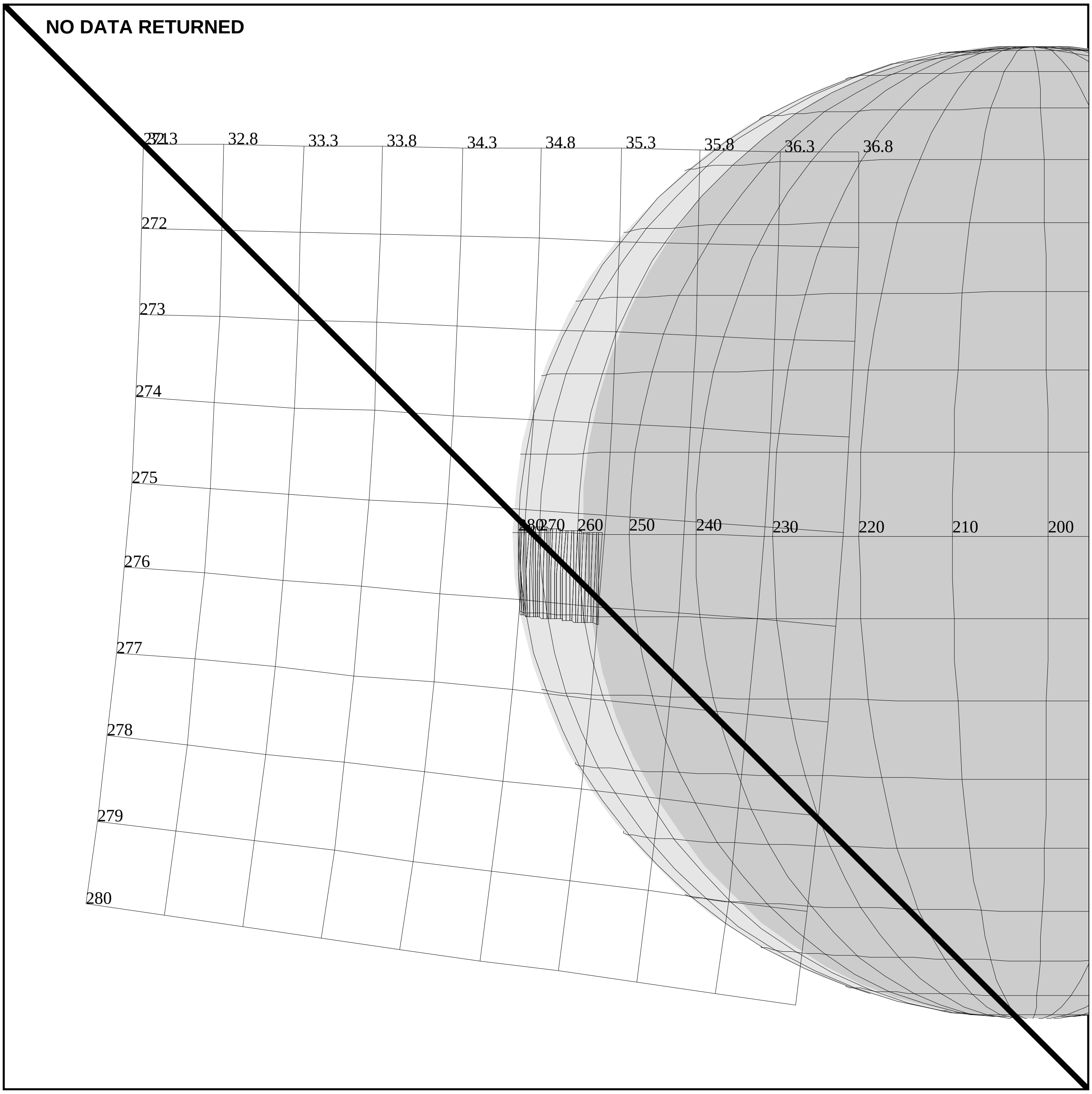
THINNING:NIM 2

START:JTA 96-310/11:04:19.000 +CDS 3124:00:0

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

OBSERVATION:C3JNFEA15301B

DESCRIP:Jupiter Campaign Feature 153dg 1



165EN:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/7332 TC= 1(-5 271)
A= 728 pD= 0 SR=17.450 RA50= 82.34 DEC50= 24.76 cone= 34.74 clock=275.69
117EN:#SB= 2 OR= 0.090 RR=12.000 BM=F RC= 1 BS= 0/7332
1:#s= 2 Cs= 52.00 XCs= 0.00 Cr= -55.50 XCr= 0.00 sD= 1626 rD= 60
2:#s= 1 Cs= 13.00 XCs= 0.00 Cr= -54.50 XCr= 0.30 sD= 404 rD= 60

C3JNFEA15301C

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNFEA15301C

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JTA 96-310/11:04:19.000 +CDS 3124:00:0

OBSERVATION:C3JNFEA15301C

THINNING:NIM 2

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

DESCRIP:Jupiter Campaign Feature 153dg 1

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NIMS Software Load	ACTIVITY ID: C3NIMSP2LD05- START TIME: 96-314/03:00:17.466

Activity ID: Orbit C3 Target N Inst I OAPEL MSP2LD SeqNo 05 -

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

Time System CDS Load ID Calendar Date 11/09/96 Week 45

Start	IEE+CDS	00000000:00:0	96-314/03:00:17.466	IEE+000/00:00:00.000
End	IEE+CDS	00000005:00:0	96-314/03:15:27.466	IEE+000/00:00:00.000
Duration		00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label C3NIMSP2LD05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS RAM flight software from CDS.
LOAD_E

Design Detail

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor (37PL)
37MRL - Memory Reallocate
6MCOPY - Copy flight software from CDS to NIMS 1000
6MCOPY - Copy flight software from CDS to NIMS 1598
37IRT - Instrument Reset
37MN - Memory Normal
37IST - Chopper Reference

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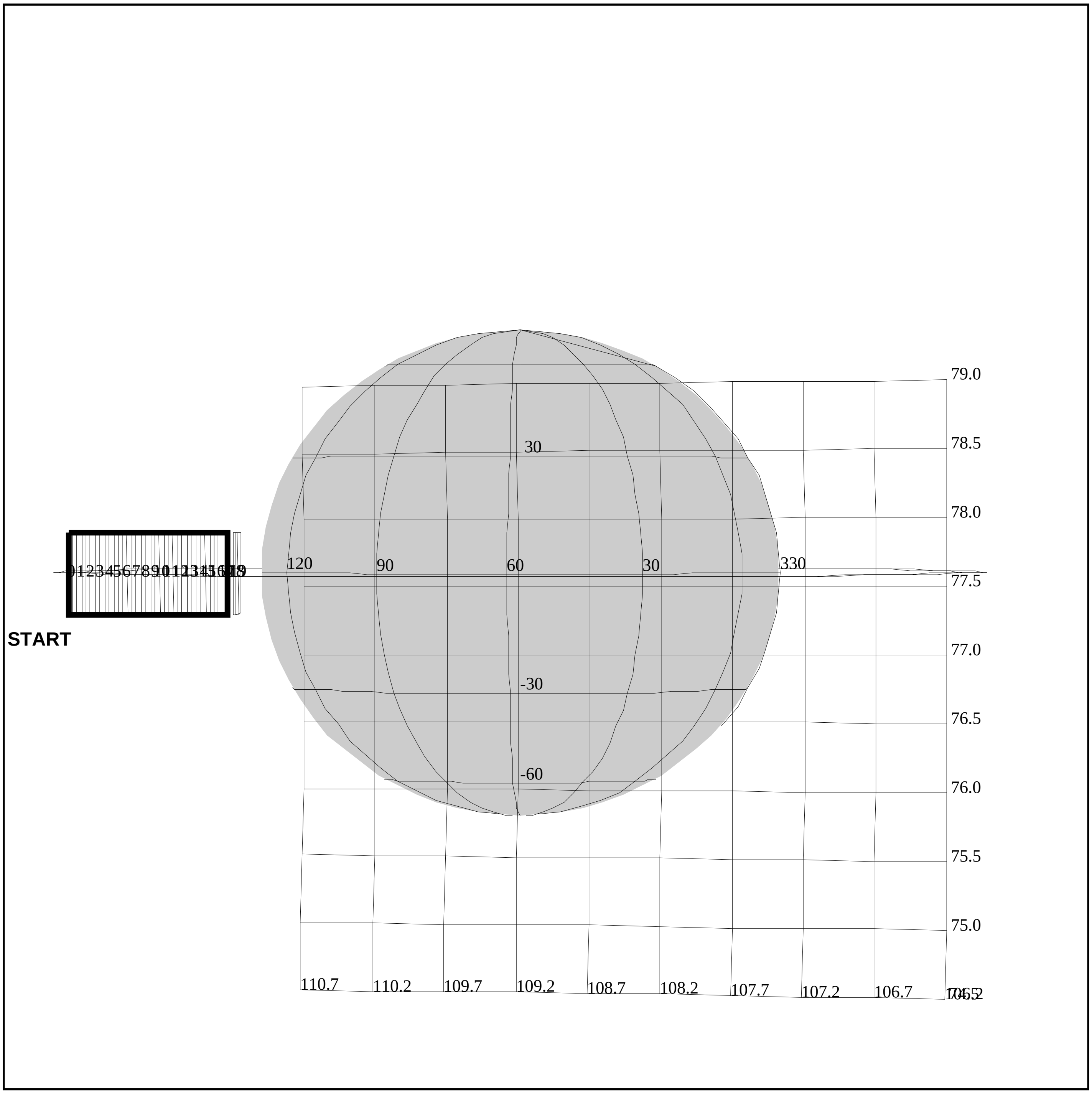


165EO:TT= 0 TMC= 1 C= 55.00 XC= 0.00 BS= 0/2636 TC= 9
A= 534 pD= 0 SR=17.450 RA50=117.22 DEC50= 22.08 cone=112.32 clock= 77.66
117EO:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2636
1:#s= 1 Cs= -19.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 2002 rD= 2

C3RNMRING_01

DESIGN G2.0 clee :10/10/1996 8:11:15

FILE:P.C3RNMRING_01

CENTRAL BODY:JUPITER III

MINI:m.C3RNMRING_01

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

THINNING:NIM 8

START:JOC 96-314/06:08:21.466 -CDS 108:00:0

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

OBSERVATION:C3RNMRING_01

DESCRIP:MAIN RING OBSERVATION

MAIN RING OBSERVATION		ACTIVITY ID:	C3RNMRING 01-
		START TIME:	96-314/04:21:10.666

Activity ID: Orbit C3 Target R Inst N OAPEL MRING SeqNo 01 -

Title	MAIN RING OBSERVATION			Instrument	NIMS
Requestor	NIMS-SWG/J. HUI	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID	C3A	Calendar Date	11/09/96	Week	45

Start	JOC-CDS	00000105:00:0	96-314/04:21:10.666	JOC-000/01:46:10.000
End	JOC-CDS	00000088:00:0	96-314/04:38:22.000	JOC-000/01:28:58.666
Duration		00000017:00:0	000/00:17:11.334	000/00:17:11.334

Top Label	C3RNMRING01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	155	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

To study the composition and particle sizes of the main ring band.

Resolution: ~1130 Km;
Phase angle: ~178 degrees;
Number of Wavelengths: 102, using wavelength table RFM102.

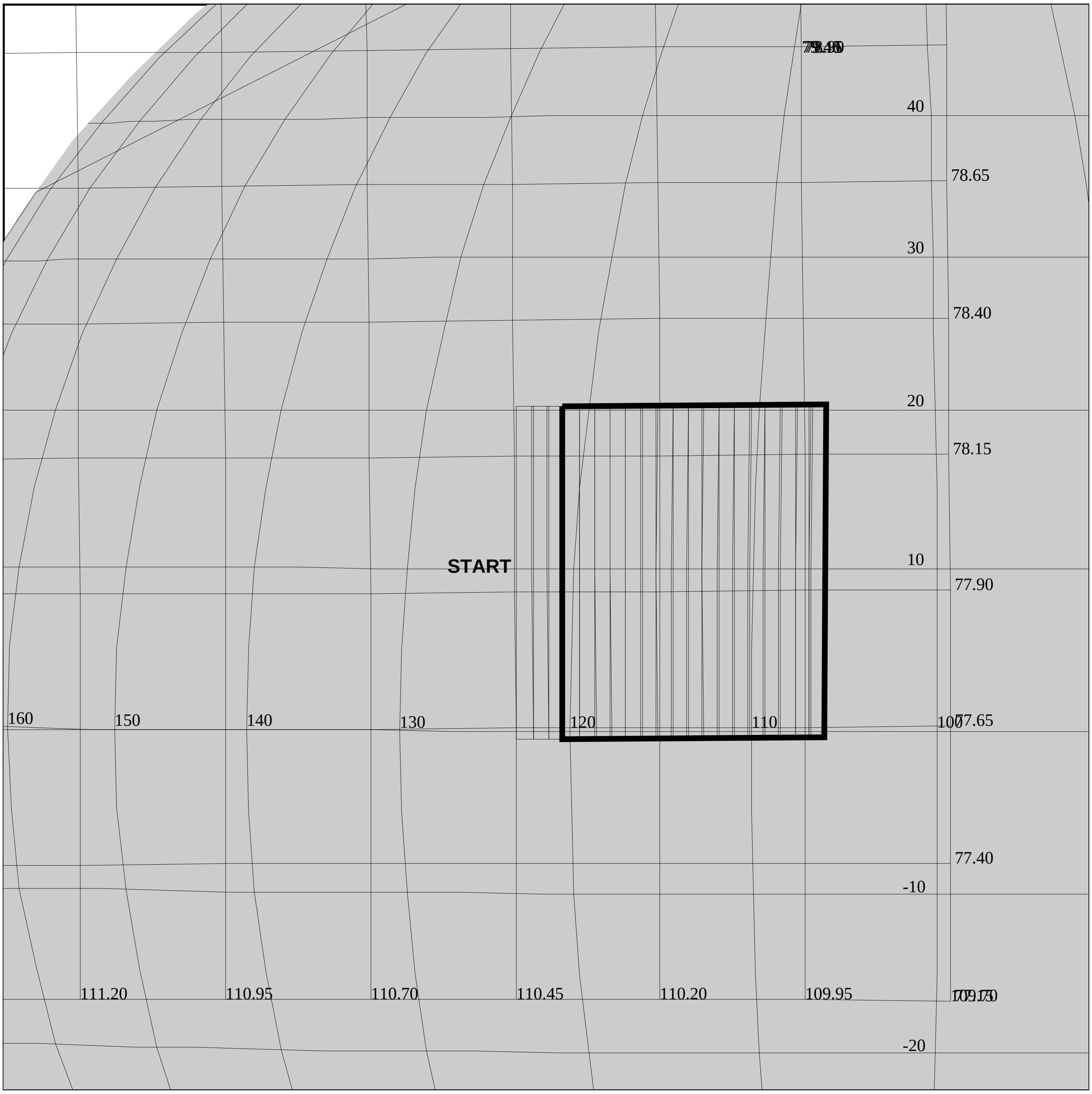
Data Returned

Design Detail

Target to center of Jupiter and offset to 1.83 RJ of the ring plane, and do one slew from to the surface of Jupiter at 0.03 mrad/sec. Observation happens during the solar occultation.

Instrument mode: Full Map;
Record the maximum allowed number of wavelengths, but at least return minimum of 102 wavelengths using playback table RFM102.
Gain state: 4;
Grating start position = 0;
Grating offset position= 4;
Record Mode = LPU.

Full Map (FM), Gain 4, Grating Start 0, LPU, C3RFM126, C3RFM102



165EP:TT= 0 TMC= 1 C= 11.50 XC= 4.60 BS= 0/6104 TC= 3
A= 546 pD= 0 SR=17.450 RA50=115.29 DEC50= 22.72 cone=110.44 clock= 77.94
117EP:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6104
1:#s= 1 Cs= -10.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1072 rD= 2

C3JNOCSPEC01

TARGET G2.0 clee :10/ 9/1996 7:56:54

FILE:P.C3JNOCSPEC01

CENTRAL BODY:JUPITER

MINI:m.run-961009

S/C EPH:/DATA/NAVIO/T-960909-TOUR.NS

PERIAPSIS:

START:JOC 96-314/06:08:21.466 -CDS 34:00:0

OBSERVATION:C3JNOCSPEC01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 2.000

DESCRIP:JUPITER OCCULATION SPECTRUM

Jupiter Occultation Spectrum	ACTIVITY ID: C3JNOCSPEC01- START TIME: 96-314/05:51:10.000

Activity ID: Orbit C3 Target J Inst N OAPEL OCSPEC SeqNo 01 -

Title	Jupiter Occultation Spectrum			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID C3A Calendar Date 11/09/96 Week 45

Start	JOC-CDS	00000016:00:0	96-314/05:51:10.000	JOC-000/00:16:10.666
End	JOC-CDS	00000006:00:0	96-314/06:01:16.666	JOC-000/00:06:04.000
Duration		00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label C3JNOCSPEC01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	169	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	ALL	DMS	Yes

Observation Objective

High spectral resolution 3 - 5 micron nightime map of trace species acquired of a Hot Spot region during the occultation period.
A complete 2.81 - 5.22 micron map acquired in 204 wavelengths specified by NIMS wavelength table JIR204 spanning 2.81 to 5.22 microns.
Assumed feature coordinates: 8 degrees north latitude and 115 degrees west longitude (system III). Observed as the feature near the Central Meridian.

Data Returned

Design Detail

Longmap Nyquist-sampled observation of 1 X 1 (10 mrad X 10 mrad) area centered on a Hot Spot region. Spacecraft distance 2.27 X 10^6 km;
1 X 1 image covers 22700 X 22700 km. About 6 minutes of scanning, accumulating 0.9115 MBTG and using 0.0121 tracks.
Four minutes reserved for targetting.

Long Map (LM), Gain 4, Grating Start 0, LPU, J35160, J35160

Galileo Activity Plan Form 09/12/96 16:57:49 rev 6/95

```
NIMS Safe After Data Taking              ACTIVITY ID:   C3NNNMSAFE01-
                                          START TIME:   96-314/06:02:17.333
```

```
Activity ID: Orbit C3  Target N  Inst N  OAPEL NMSAFE  SeqNo 01 -

Title        NIMS Safe After Data Taking             Instrument       NIMS
Requestor    NIMS-SWG/M. SEGURA        Team   NIMS  Working Group    SWG
```

```
Time System  CDS       Load ID  C3A     Calendar Date  11/09/96  Week  45

Start        JOC-CDS 00000005:00:0 96-314/06:02:17.333   JOC-000/00:05:03.333
End          JOC-CDS 00000001:00:0 96-314/06:06:20.000   JOC-000/00:01:00.666
Duration             00000004:00:0    000/00:04:02.667       000/00:04:02.667
```

```
Top Label    C3NNNMSAFE01-
Bottom Label

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

Observation Objective

Safe NIMS after the last ovservation in the C3 encounter load.

Design Detail

Use the NIMSINIT PA with the following commands:

```
37IST,1,2,0,OFF,0,0,0;  Chopper 63Hz
37IST,1,0,0,OFF,0,0,0;  Chopper Off
37IOP,0,0;              Safe Mode
```

Galileo Activity Plan Form   09/12/96 16:57:50   rev 6/95

RCT CALIBRATION	ACTIVITY ID: C3NNRCTRLT01- START TIME: 96-317/13:15:31.666

Activity ID: Orbit C3 Target N Inst N OAPEL RCTRLT SeqNo 01 -

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

Time System CDS Load ID Calendar Date 11/12/96 Week 46

Start	JEE+CDS	00008533:00:0	96-317/13:15:31.666	JEE+005/23:47:48.666
End	JEE+CDS	00008563:00:0	96-317/13:45:51.666	JEE+006/00:18:08.666
Duration		00000030:00:0	000/00:30:20.000	000/00:30:20.000

Top Label C3NNRCTRLT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	250	Report Options	SCI	Scan Platform	No
CDS Source	ALL	Spin State	YES	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 + 3 day 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, C3RCT252

Galileo Activity Plan Form 11/14/96 16:48:16 rev 6/95

NIMS RCT CALIBRATION | **ACTIVITY ID:** C3NNRCTRLT02-
START TIME: 96-335/02:00:57.000

Activity ID: Orbit C3 Target N Inst N OAPEL RCTRLT SeqNo 02 -

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

Time System CDS   Load ID   Calendar Date 11/30/96 Week 48

Start	JEE+CDS	00033501:00:0	96-335/02:00:57.000	JEE+023/12:33:14.000
End	JEE+CDS	00033531:00:0	96-335/02:31:17.000	JEE+023/13:03:34.000
Duration		00000030:00:0	000/00:30:20.000	000/00:30:20.000

Top Label C3NNRCTRLT02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	250	Report Options	SCI	Scan Platform	No
CDS Source	ALL	Spin State	YES	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.

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, C3RCT252

Galileo Activity Plan Form   11/14/96 16:48:16   rev 6/95

NIMS INSTRUMENT PREP FOR E4		ACTIVITY ID:	C3NNE4PREP01-
		START TIME:	96-348/00:00:20.333

Activity ID: Orbit C3 Target Inst OAPEL SeqNo

Title	NIMS INSTRUMENT PREP FOR E4			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	12/13/96	Week 50

Start	JEE+CDS	00051896:00:0	96-348/00:00:20.333	JEE+036/10:32:37.333
End	JEE+CDS	00051926:00:0	96-348/00:30:40.333	JEE+036/11:02:57.333
Duration		00000030:00:0	000/00:30:20.000	000/00:30:20.000

Top Label	C3NNE4PREP
Bottom Label	

Plot Key	NIMS	Type			
CDS Bytes	0	Report Options	SCI	Scan Platform	No
CDS Source	ALL	Spin State	YES	DMS	No

Observation Objective

NIMS heater configuration in preparation for data taking in the E4 orbit.

Design Detail

Galileo Activity Plan Form 11/14/96 16:48:17 rev 6/95

NIMS OPCAL	ACTIVITY ID: C3NNNOPCAL01- START TIME: 96-349/09:25:22.333

Activity ID: Orbit C3 Target N Inst N OAPEL NOPCAL SeqNo 01 -

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

Time System CDS Load ID Calendar Date 12/14/96 Week 50

Start	JEE+CDS	00053879:00:0	96-349/09:25:22.333	JEE+037/19:57:39.333
End	JEE+CDS	00053882:00:0	96-349/09:28:24.333	JEE+037/20:00:41.333
Duration		00000003:00:0	000/00:03:02.000	000/00:03:02.000

Top Label C3NNNOPCAL01-
Bottom Label

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

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 positoins 8-11)
ETB selects Detectors 1 and 2 only.
NIMS is selected in Real-Time for 3 RIMS.
Three grating cycles will be returned.

Long Map (LM), Gain 4, Grating Start 0, R/T, C3OPCAL48

Galileo Activity Plan Form 11/14/96 16:48:17 rev 6/95