Chapter 5 - Detailed Observation Designs

Contents

Introduction to Chapter 5

Detailed Observation Designs

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

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

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

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

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

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

NIMS Chopper On	ACTIVITY ID: 11NNCHOPON01- START TIME: 97-309/07:06:11.734

Activity ID: Orbit 11 Target N Inst N OAPEL CHOPON SeqNo 01 -

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

Time System CDS Load ID Calendar Date 11/05/97 Week 45

Start	EEE-CDS 00002221:00:0	97-309/07:06:11.734	EEE-001/13:25:40.666
End	EEE-CDS 00002213:00:0	97-309/07:14:17.067	EEE-001/13:17:35.333
Duration	00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label 11NNCHOPON01-
Bottom Label

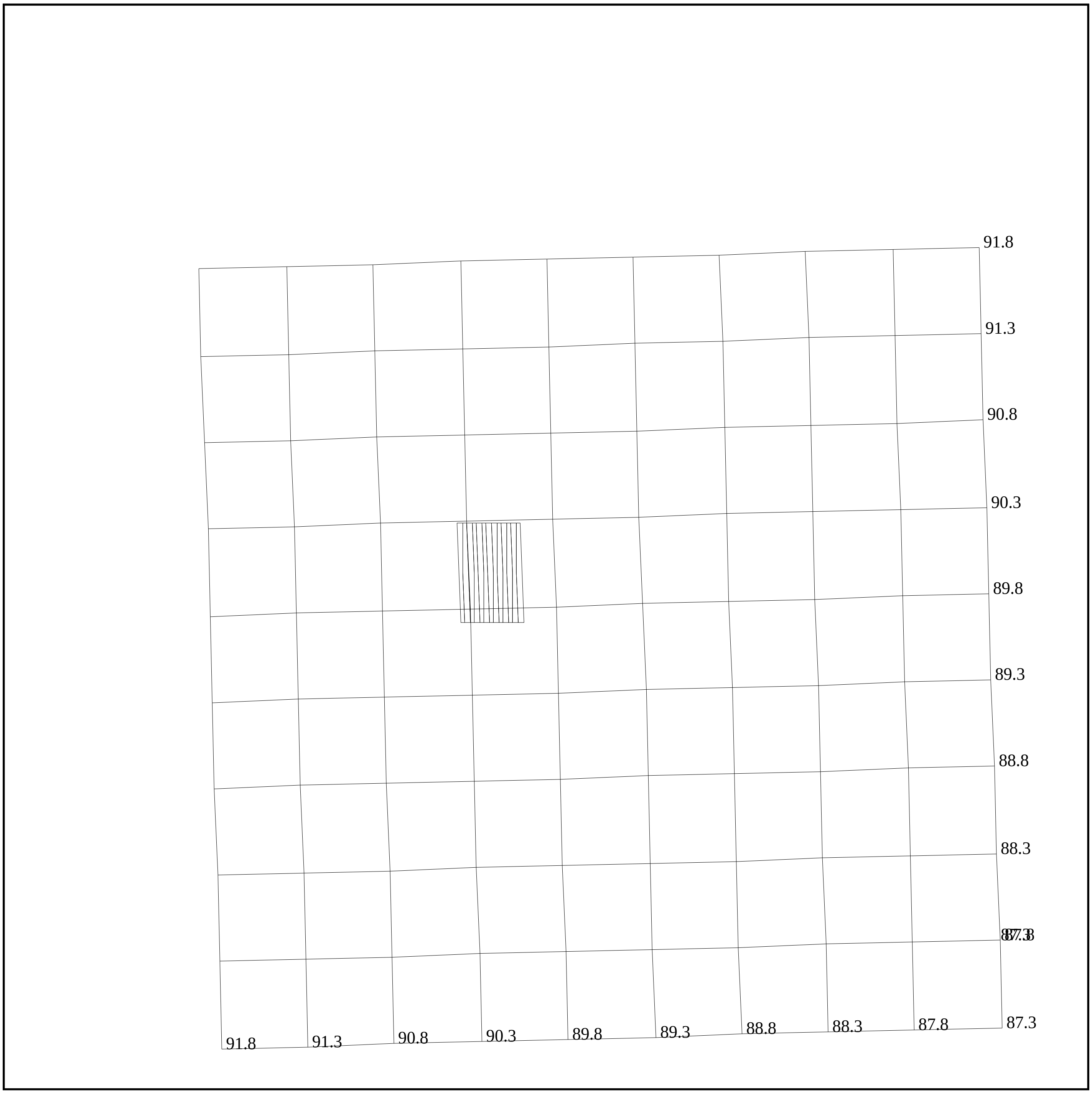
Plot Key	NIMS	Type	SCI		
CDS Bytes	38	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

NIMS chopper turned on.

Design Detail

Galileo Activity Plan Form 09/25/97 15:49:56 rev 6/95



165EF:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6633 TC= 2(90 90)
A= 728 pD= 0 SR=17.450 RA50=218.97 DEC50=-22.70 cone= 90.00 clock= 90.00
117EF:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6633
1:#s= 1 Cs= 6.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

11HNDARK__01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11HNDARK__01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 2453:00:0

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

OBSERVATION:11HNDARK__01

DESCRIP:NIMS_Dark_Observation

NIMS Dark Observation	ACTIVITY ID: 11HNDARK__01- START TIME: 97-309/07:15:17.733

Activity ID: Orbit 11 Target H Inst N OAPEL DARK__ SeqNo 01 -

Title	NIMS Dark Observation			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/05/97 Week 45

Start	JEE-CDS 00002459:00:0	97-309/07:15:17.733	JEE-001/17:26:19.333
End	JEE-CDS 00002452:00:0	97-309/07:22:22.400	JEE-001/17:19:14.666
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label 11HNDARK__01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS dark observation.

Obtain 1 Rim of dark sky data.

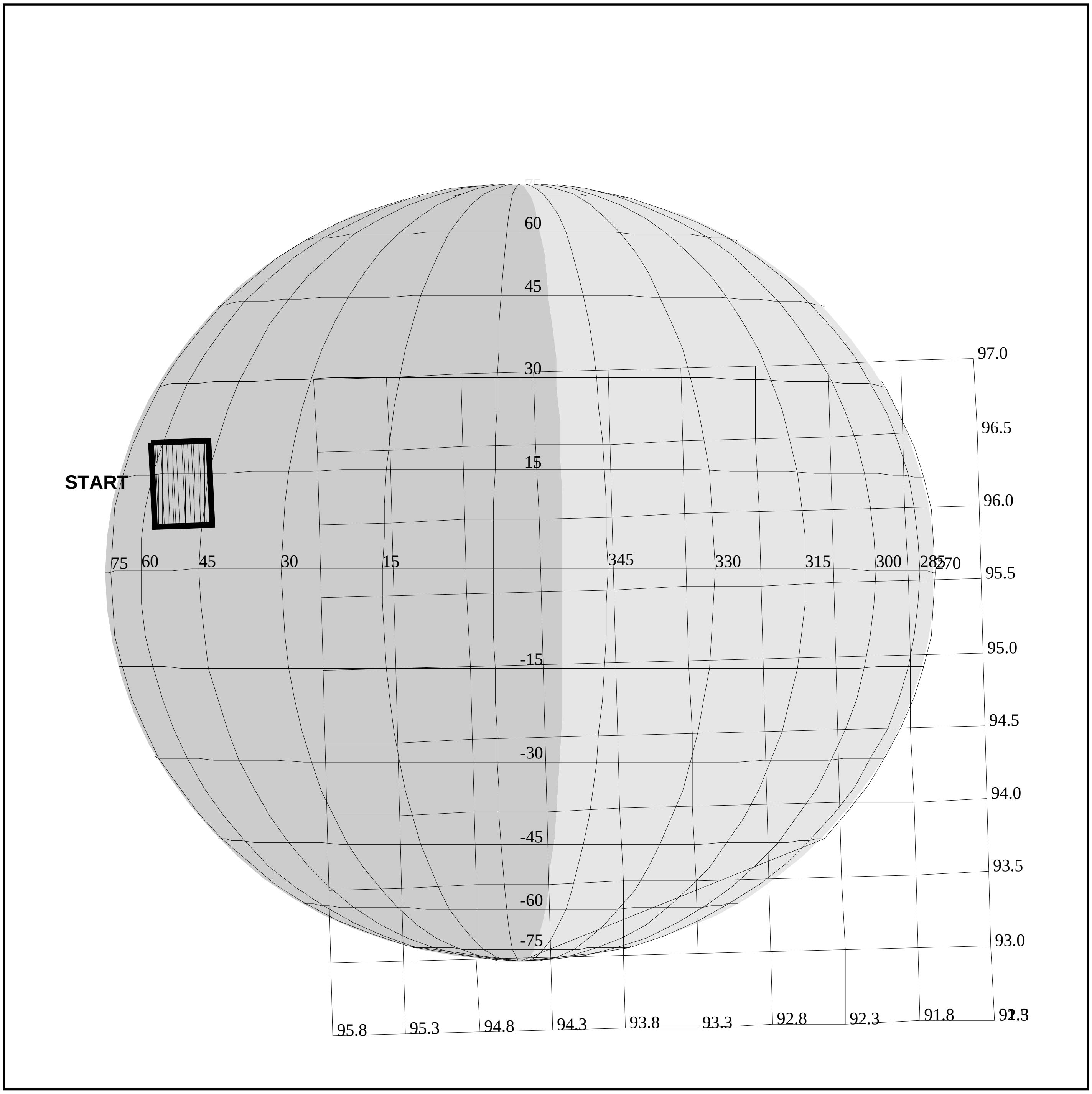
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 Rim.

Long Map (LM), Gain 3, Grating Start 0, LPU, E11DRK252, E11DRK32

Galileo Activity Plan Form 09/25/97 15:49:56 rev 6/95



165DC:TT= 0 TMC= 1 C= 2.90 XC= 0.00 BS= 0/2547 TC= 1(13.5 52)
A= 586 pD= 4368 SR=17.450 RA50=228.19 DEC50=-19.07 cone= 96.95 clock= 96.27
117DC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2547
1:#s= 1 Cs= -5.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 546 rD= 2

11JNBRG53M01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG53M01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 1926:00:0

BODY PLOT TIME:TARGET-TIME D= 4368 S= 0.800

OBSERVATION:11JNBRG53M01

DESCRIP:Brown_Barge_Observation

NIMS 5 and 3 Micron Brown Barge Obs   ACTIVITY ID: 11JNBRG53M01-
START TIME: 97-309/16:10:10.400

Activity ID: Orbit 11 Target J Inst N OAPEL BRG53M SeqNo 01 -

Title	NIMS 5 and 3 Micron Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97 Week 45

Start	JEE-CDS 00001930:00:0	97-309/16:10:10.400	JEE-001/08:31:26.666
End	JEE-CDS 00001923:00:0	97-309/16:17:15.066	JEE-001/08:24:22.000
Duration	00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label   11JNBRG53M01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

One of two oapels constituting a five and three micron observation of the Brown Barge feature.

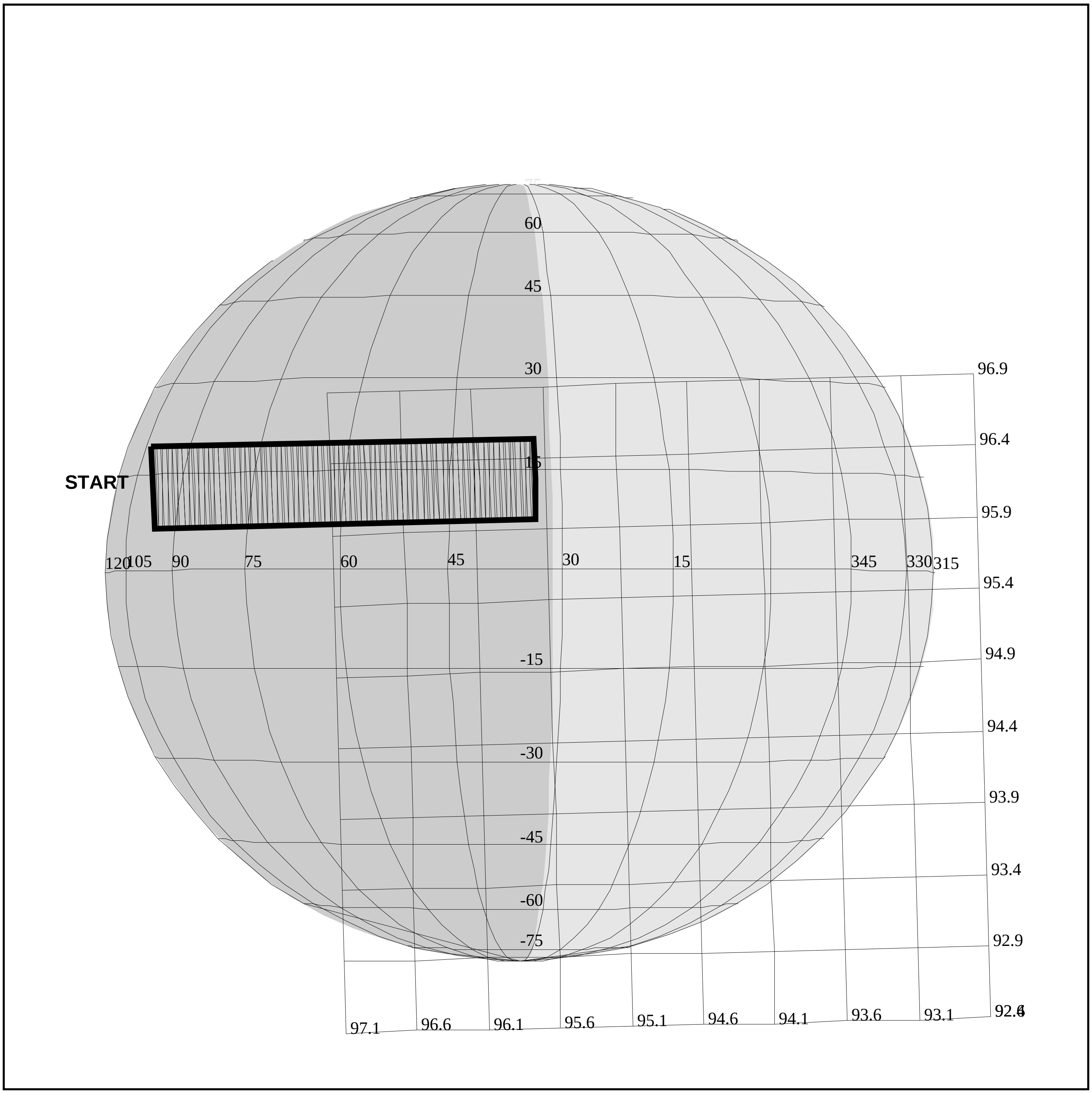
Data Returned

Design Detail

Long map, Nyquist sampling. Location is 52 degrees West longitude, 14 degrees North latitude. Brown Barge location has a large uncertainty: 40-65 degrees West longitude.
Range is 19.8 Rj,
incidence angle is 150.2 degrees,
emission angle is 61.6 degrees.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11J35157, E11J35083

Galileo Activity Plan Form   09/25/97 15:49:56   rev 6/95



165DD:TT= 0 TMC= 1 C= 30.00 XC= 0.00 BS= 0/4559 TC= 1(13.5 52)
A= 728 pD= 4368 SR=17.450 RA50=229.65 DEC50=-19.46 cone= 98.38 clock= 96.30
117DD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4559
1:#s= 1 Cs= -38.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 3822 rD= 2

11JNBRG53M02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG53M02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 -CDS 1860:00:0

OBSERVATION:11JNBRG53M02

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 4368 S= 0.800

DESCRIP:Brown_Barge_Observation

NIMS 5 and 3 Micron Brown Barge Obs ACTIVITY ID: 11JNBRG53M02-
START TIME: 97-309/17:15:53.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG53M SeqNo 02 -

Title	NIMS 5 and 3 Micron Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/05/97 Week 45

Start	JEE-CDS 00001865:00:0	97-309/17:15:53.733	JEE-001/07:25:43.333
End	JEE-CDS 00001839:00:0	97-309/17:42:11.066	JEE-001/06:59:26.000
Duration	00000026:00:0	000/00:26:17.333	000/00:26:17.333

Top Label 11JNBRG53M02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of two oapels constituting five and three micron mapping of the Brown Barge feature. There will be 157 wavelengths acquired in the 2.7 micron and 5 micron thermal emission bands.

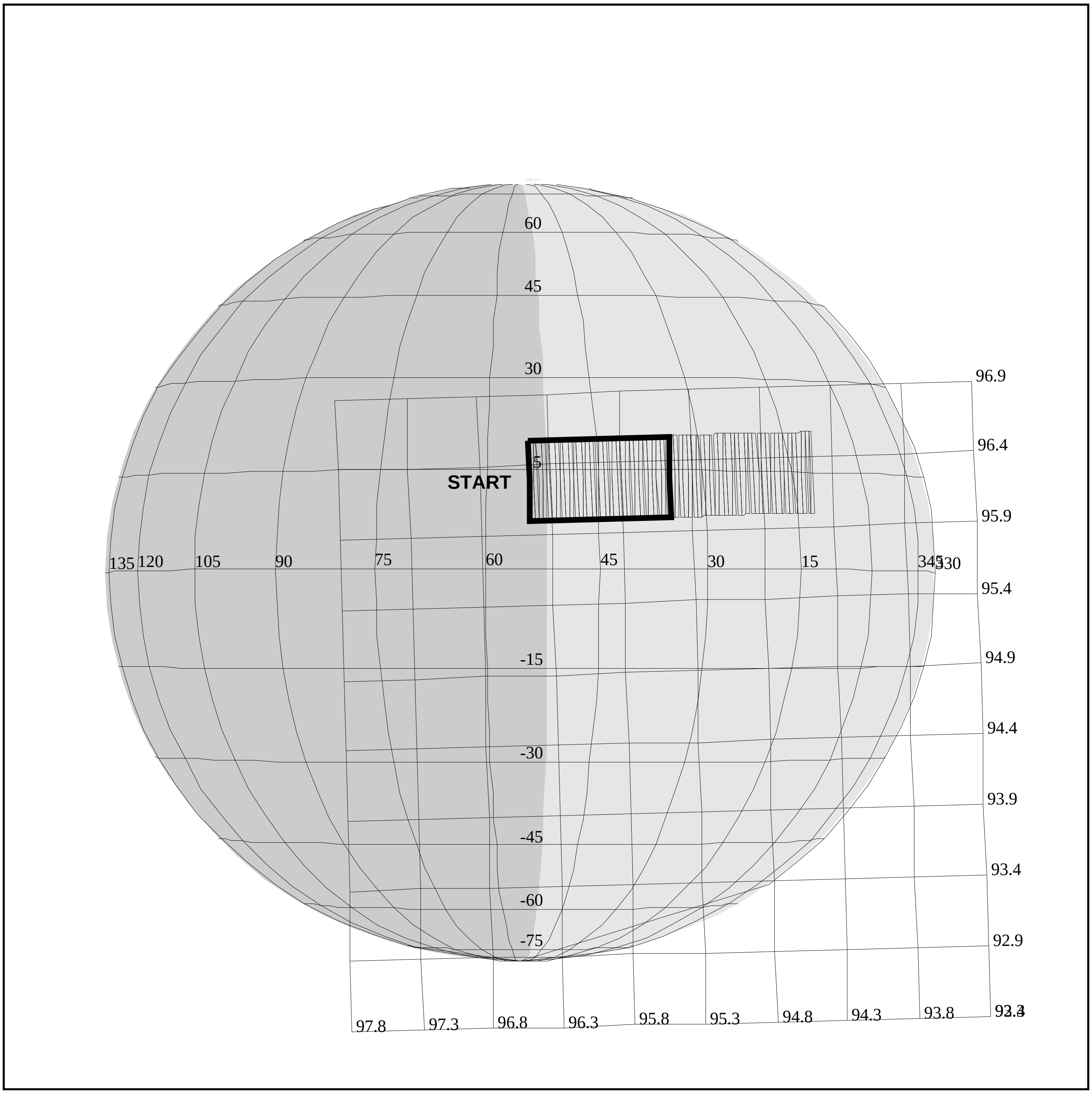
Data Returned

Design Detail

Long map, Nyquist sampling. Location: 52 degrees West longitude, 14 degrees North latitude. Brown Barge feature has a large uncertainty of 40-65 degrees West longitude. Coverage includes 4 X 1 area imaged along 17 degrees West longitude, spanning about 60 degrees of longitude from 35-95 degrees on the night side. NIMS INFOV about 680 km.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11J35157, E11J35083

Galileo Activity Plan Form 09/25/97 15:49:56 rev 6/95



165DE:TT= 0 TMC= 1 C= 2.00 XC= 0.00 BS= 0/0747 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=227.73 DEC50=-18.88 cone= 96.48 clock= 96.31
117DE:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0747
1:#s= 1 Cs= -32.70 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 902 rD= 2

11JNBRG09401

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG09401

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 -CDS 1826:00:0

OBSERVATION:11JNBRG09401

THINNING:NIM 2

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

DESCRIP:Brown_Barge_Ob_94_Deg_Phase

Brown Barge Observation 94 deg phase	ACTIVITY ID: 11JNBRG09401- START TIME: 97-309/17:52:17.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG094 SeqNo 01 -

Title	Brown Barge Observation 94 deg phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97 Week 45

Start	JEE-CDS 00001829:00:0	97-309/17:52:17.733	JEE-001/06:49:19.333
End	JEE-CDS 00001821:00:0	97-309/18:00:23.066	JEE-001/06:41:14.000
Duration	00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label 11JNBRG09401-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

First of four OAPels constituting observations of the Brown Barge, near-terminator observations, feature at 94 degrees phase. Twenty-five wavelengths acquired.

Data Returned

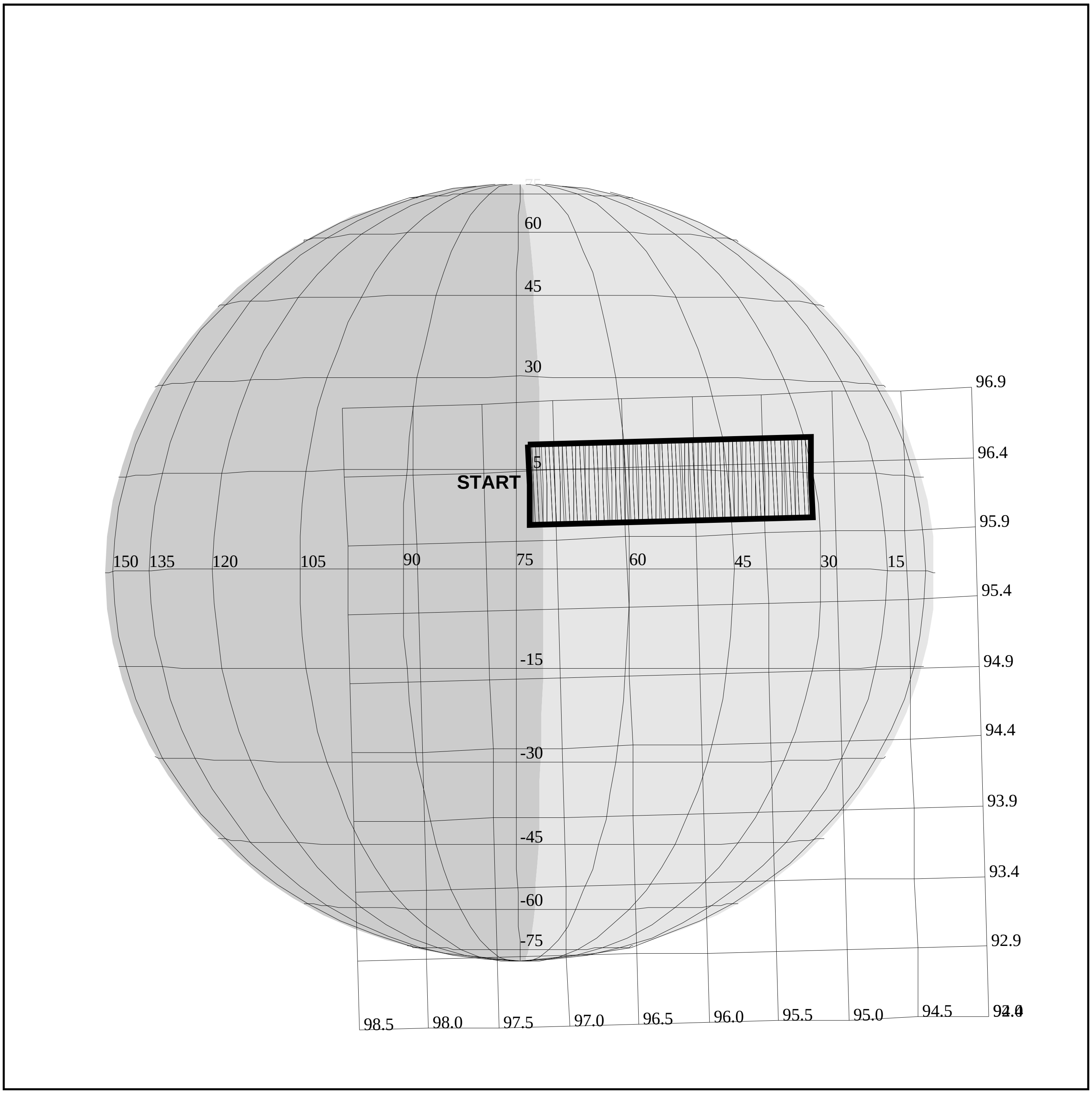
Design Detail

Short map, Nyquist sampling, 25 colors acquired, 3 X 1 map extending from terminator at approximately 50 degrees longitude to 13 degrees longitude, 14 degrees North latitude.
Range is 18.5 Rj, incidence angle is 81.3 degrees, emission angle is 19.6 degrees. NIMS IFOV about 670 km. Four RIMS reserved for targetting.

Only first half of swath returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:49:56 rev 6/95



165DF:TT= 0 TMC= 1 C= 19.00 XC= 0.00 BS= 0/6571 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=228.45 DEC50=-19.10 cone= 97.19 clock= 96.31
117DF:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6571
1:#s= 1 Cs= -33.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 910 rD= 2

11JNBRG09402

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG09402

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 -CDS 1794:00:0

OBSERVATION:11JNBRG09402

THINNING:NIM 2

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

DESCRIP:Brown_Barge_Ob_94_Deg_Phase

Brown Barge Observation 94 deg phase	ACTIVITY ID:	11JNBRG09402-
	START TIME:	97-309/18:25:39.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG094 SeqNo 02 -

Title	Brown Barge Observation 94 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97	Week	45

Start	JEE-CDS 00001796:00:0	97-309/18:25:39.733	JEE-001/06:15:57.333
End	JEE-CDS 00001789:00:0	97-309/18:32:44.400	JEE-001/06:08:52.666
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	11JNBRG09402-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of two OAPels constituting observations of the Brown Barge feature at 94 degrees phase. Observation acquired about 15 degrees away from terminator.

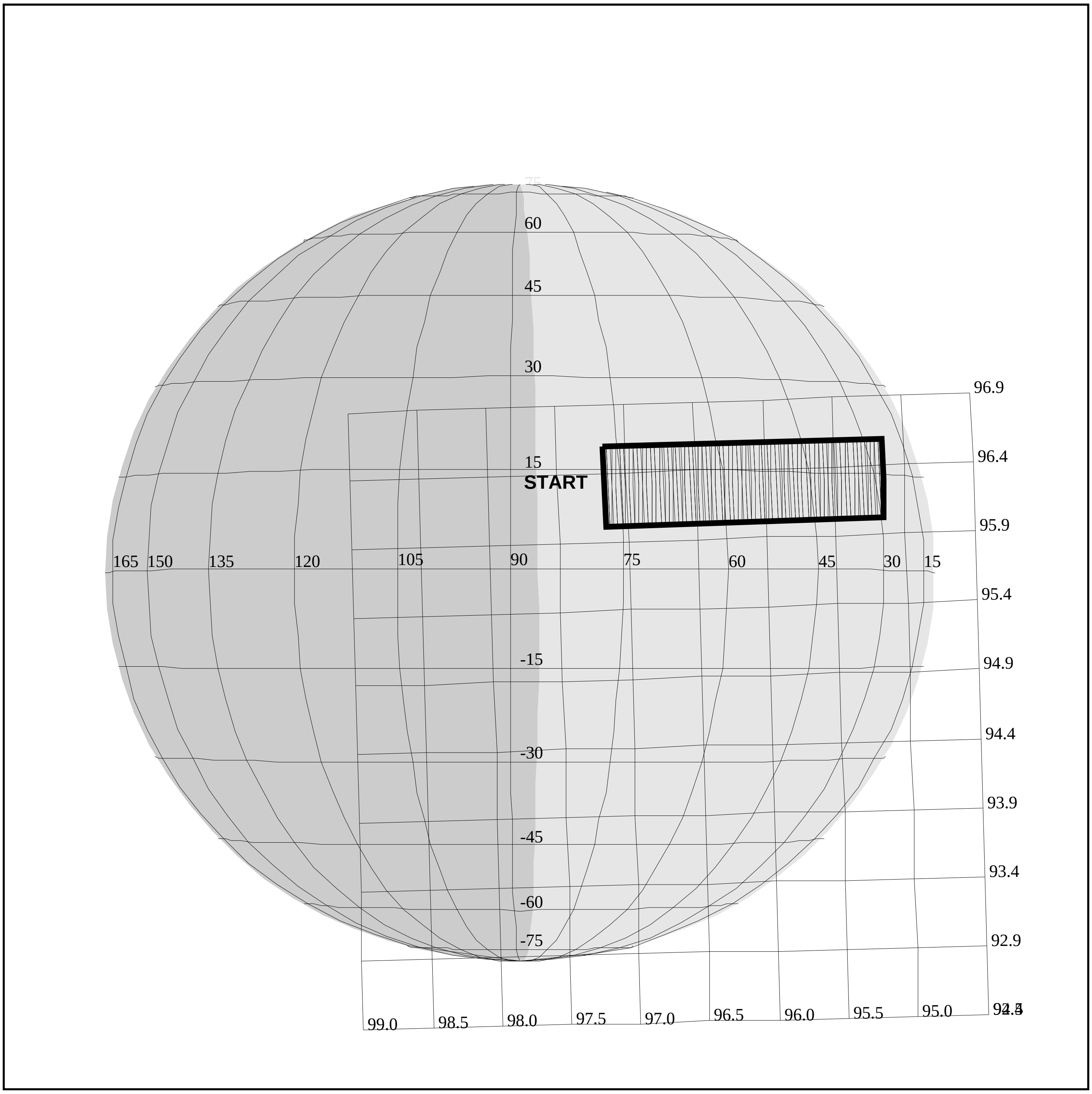
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired, 3 X 1 map extending from terminator at approximately 70 degrees longitude to approximately 33 degrees longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude.
Range is 18.4 Rj, NIMS IFOV about 660 km. Incidence angle at 52 degrees, longitude is 70 degrees, emission angle is 29 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT04B

Galileo Activity Plan Form 09/25/97 15:49:57 rev 6/95



165DG:TT= 0 TMC= 1 C= 21.00 XC= 0.00 BS= 0/0939 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=228.45 DEC50=-19.10 cone= 97.19 clock= 96.31
117DG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0939
1:#s= 1 Cs= -33.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 910 rD= 2

11JNBRG09403

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG09403

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 -CDS 1770:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:11JNBRG09403 **DESCRIP:Brown_Barge_Ob_94_Deg_Phase**

Brown Barge Observation 94 deg phase	ACTIVITY ID:	11JNBRG09403-
	START TIME:	97-309/18:49:55.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG094 SeqNo 03 -

Title	Brown Barge Observation 94 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97	Week	45

Start	JEE-CDS 00001772:00:0	97-309/18:49:55.733	JEE-001/05:51:41.333
End	JEE-CDS 00001765:00:0	97-309/18:57:00.400	JEE-001/05:44:36.666
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label 11JNBRG09403-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Third of four OAPels constituting observations of the Brown Barge feature at 94 degrees phase angle. Observation acquired near minimum airmass.

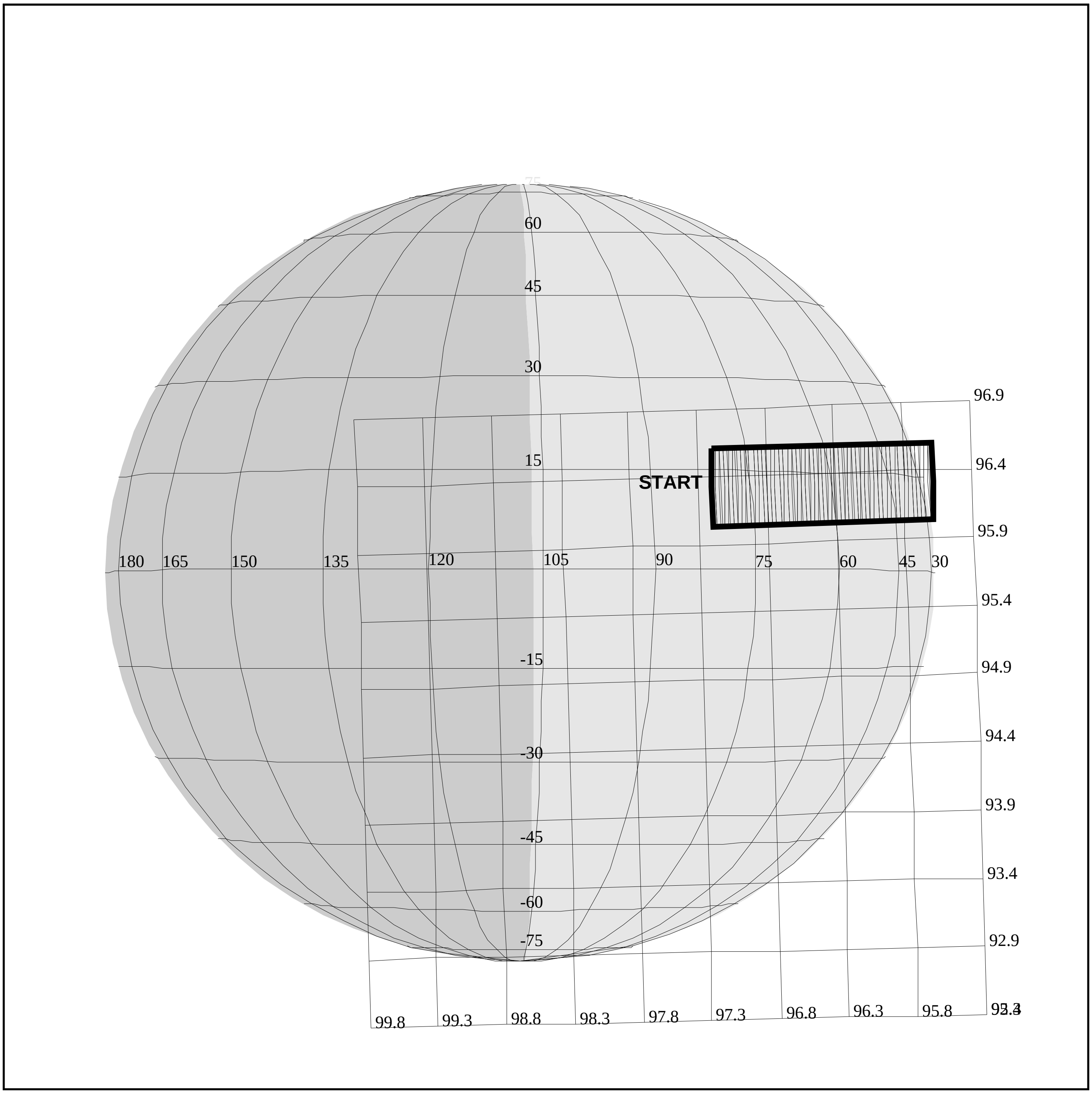
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired, 3 X 1 map centered at 52 degrees West longitude, 14 degrees North latitude.
Barge location has a large uncertainty of 40-65 degrees West longitude.
Range is 18.4 Rj, NIMS IFOV 650 km. Incidence angle is 54 degrees, emission angle is 42.0 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:49:57 rev 6/95



165DH:TT= 0 TMC= 1 C= 19.50 XC= 0.00 BS= 0/6945 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=228.41 DEC50=-19.09 cone= 97.16 clock= 96.30
117DH:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6945
1:#s= 1 Cs= -26.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 728 rD= 2

11JNBRG09404

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG09404

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 -CDS 1737:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:11JNBRG09404 **DESCRIP:Brown_Barge_Ob_94_Deg_Phase**

Brown Barge Observation 94 deg phase	ACTIVITY ID:	11JNBRG09404-
	START TIME:	97-309/19:23:17.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG094 SeqNo 04 -

Title	Brown Barge Observation 94 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97	Week 45

Start	JEE-CDS 00001739:00:0	97-309/19:23:17.733	JEE-001/05:18:19.333
End	JEE-CDS 00001733:00:0	97-309/19:29:21.733	JEE-001/05:12:15.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label	11JNBRG09404-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Four of four OAPels constituting observations of the Brown Barge feature at 94 degrees phase angle.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired, 3 X 1 map centered near 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude.
Range is 18.4 Rj, NIMS IFOV 650 km. Incidence angle is 36 degrees, emission 61 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD01- — START TIME: 97-309/19:31:23.066

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 01 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97 Week 45

Start	JEE-CDS 1731:00:0	97-309/19:31:23.066	JEE-001/05:10:14.000
End	JEE-CDS 1721:00:0	97-309/19:41:29.733	JEE-001/05:00:07.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 11NNRELOAD01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

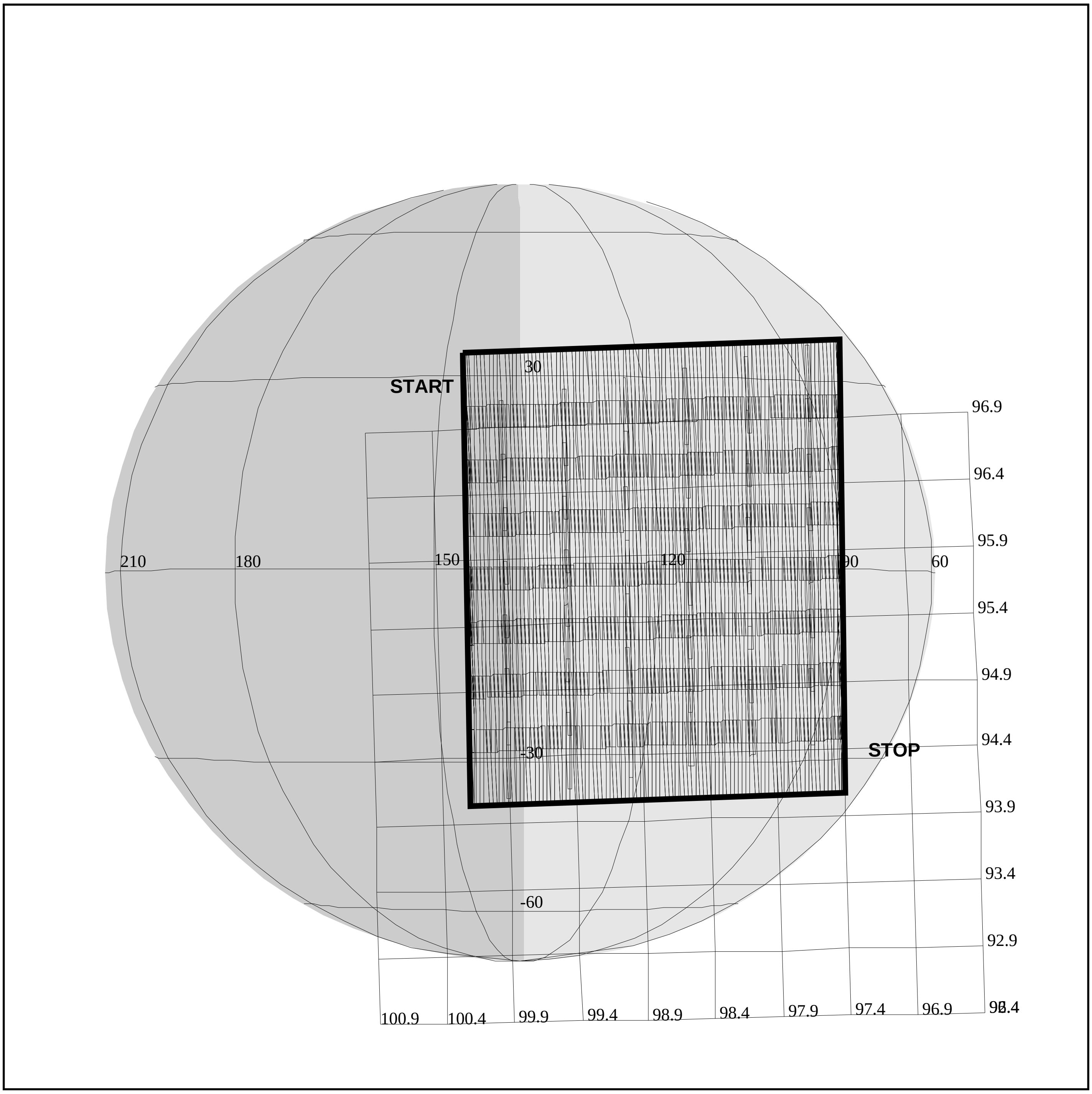
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

```
6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL   - Halt NIMS Processor
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   09/25/97 15:49:57   rev 6/95



165DL:TT= 0 TMC= 1 C= 0.70 XC= -12.50 BS= 0/6409 TC= 1(45 148)
A= 162 pD= 0 SR=17.450 RA50=231.73 DEC50=-19.18 cone=100.18 clock= 97.15
117DL:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/6409
1:#s= 8 Cs= -48.00 XCs= 0.00 Cr= 48.70 XCr= -7.00 sD= 202 rD= 28

11JNCYLMOS01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNCYLMOS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 -CDS 1685:00:0

OBSERVATION:11JNCYLMOS01

THINNING:NIM 2

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

DESCRIP:Jupiter_Cylindrical_Mosaic_01

Jupiter Cylindrical Mosaic Part 1	ACTIVITY ID: 11JNCYLMOS01- START TIME: 97-309/20:14:51.733

Activity ID: Orbit 11 Target J Inst N OAPEL CYLMOS SeqNo 01 -

Title	Jupiter Cylindrical Mosaic Part 1		Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97	Week 45

Start	JEE-CDS 00001688:00:0	97-309/20:14:51.733	JEE-001/04:26:45.333
End	JEE-CDS 00001675:00:0	97-309/20:28:00.400	JEE-001/04:13:36.666
Duration	00000013:00:0	000/00:13:08.667	000/00:13:08.667

Top Label	11JNCYLMOS01-
Bottom Label	

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

Observation Objective

Part one of six observations constituting the Jupiter large cylindrical mosaic. Jupiter imaged in 5 colors (1.594, 2.156, 2.721, 3.0011 and 4.982 microns) to obtain cylindrical maps covering plus or minus 30 degrees latitude depicting features at 630 km/NIMSel resolution. This map acquired near 135 degrees CML, at a phase angle near 90 degrees. Entire cylindrical map covers 195-105 degrees longitude.

Data Returned

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. Eight tiers covering most of the sunlit longitudes, acquired near 18 Rj, each covering plus or minus 30 degrees latitude in North/South direction and about 2/3 fractional radius in the East-West direction (i.e. 45 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks. Four minutes reserved for targetting. Fixed Map (XM), Gain 2, Grating Start 5, LPU.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E11JGM10A, E11JGM05A

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NIMS Real-Time Software Reload		ACTIVITY ID:	11NNRELOAD02-
		START TIME:	97-309/21:13:30.400

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 02 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97	Week	45

Start	JEE-CDS 1630:00:0	97-309/21:13:30.400	JEE-001/03:28:06.666
End	JEE-CDS 1620:00:0	97-309/21:23:37.066	JEE-001/03:18:00.000
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label	11NNRELOAD02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL   - Halt NIMS Processor
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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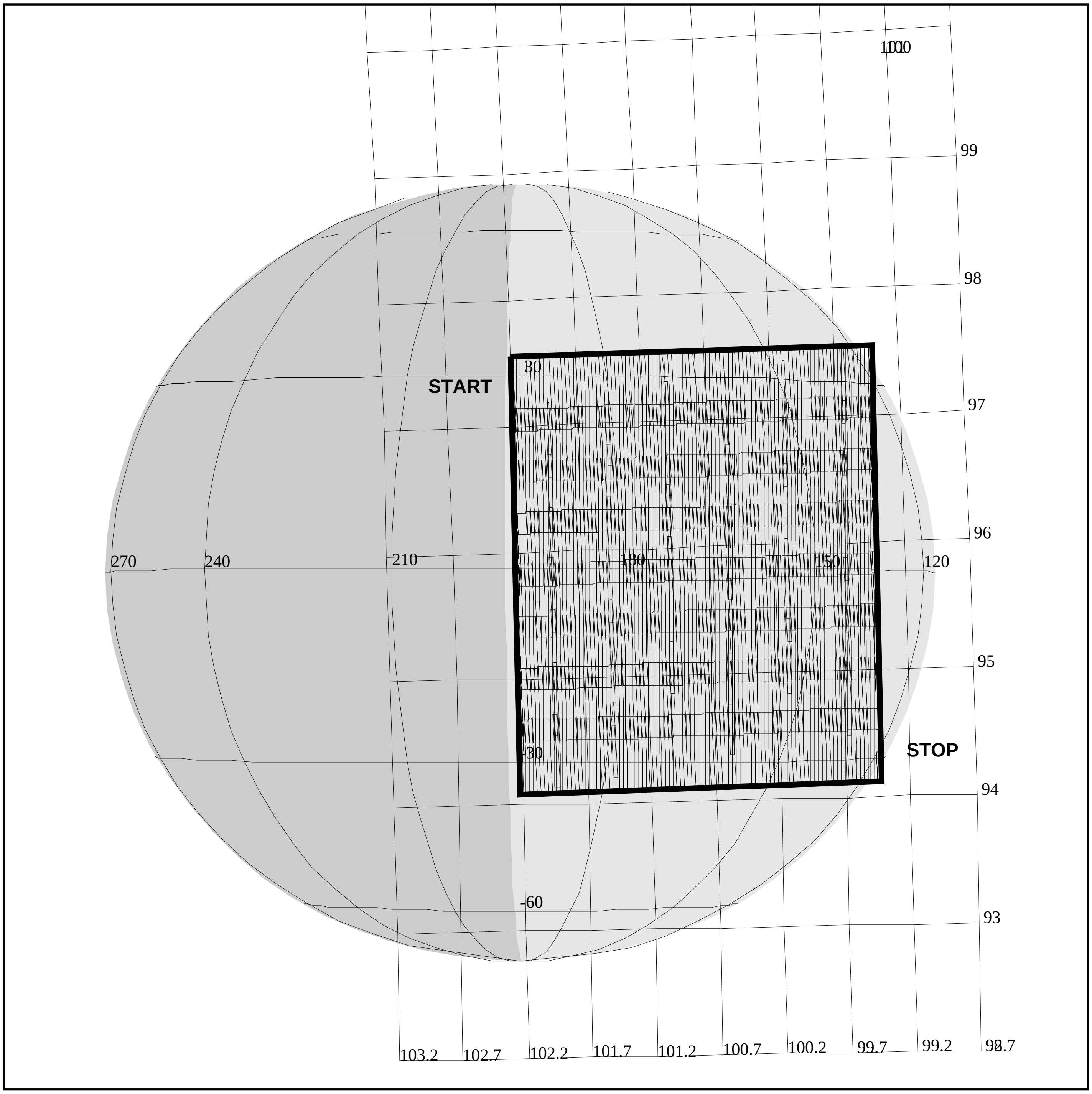

165DM:TT= 0 TMC= 1 C= 0.00 XC= -13.50 BS= 0/3335 TC= 1(45 195)
A= 182 pD= 0 SR=17.450 RA50=233.79 DEC50=-19.65 cone=102.18 clock= 97.26
117DM:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/3335
1:#s= 8 Cs= -48.00 XCs= 0.00 Cr= 48.70 XCr= -7.00 sD= 202 rD= 28

11JNCYLMOS02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNCYLMOS02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 -CDS 1592:00:0

OBSERVATION:11JNCYLMOS02

THINNING:NIM 2

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

DESCRIP:Jupiter_Cylindrical_Mosaic_02

Jupiter Cylindrical Mosaic Part 2	ACTIVITY ID: 11JNCYLMOS02- START TIME: 97-309/21:48:53.733

Activity ID: Orbit 11 Target J Inst N OAPEL CYLMOS SeqNo 02 -

Title	Jupiter Cylindrical Mosaic Part 2			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID	Calendar Date	11/05/97	Week	45

Start	JEE-CDS 00001595:00:0	97-309/21:48:53.733	JEE-001/02:52:43.333
End	JEE-CDS 00001582:00:0	97-309/22:02:02.400	JEE-001/02:39:34.666
Duration	00000013:00:0	000/00:13:08.667	000/00:13:08.667

Top Label	11JNCYLMOS02-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part two of six observations constituting the Jupiter large cylindrical mosaic. Jupiter imaged in 5 colors (1.594, 2.156, 2.721, 3.0011 and 4.982 microns) to obtain cylindrical maps covering plus or minus 30 degrees latitude depicting features at 605 km/NIMSel resolution. This map acquired near 195 degrees CML, at a phase angle near 90 degrees. Entire cylindrical map covers 195-105 degrees longitude.

Data Returned

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. Eight tiers covering most of the sunlit longitudes, acquired near 18 Rj, each covering plus or minus 30 degrees latitude in North/South direction and about 2/3 fractional radius in the East-West direction (i.e. 45 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks. Four minutes reserved for targetting. Fixed Map (XM), Gain 2, Grating Start 5, LPU.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E11JGM10A, E11JGM05A

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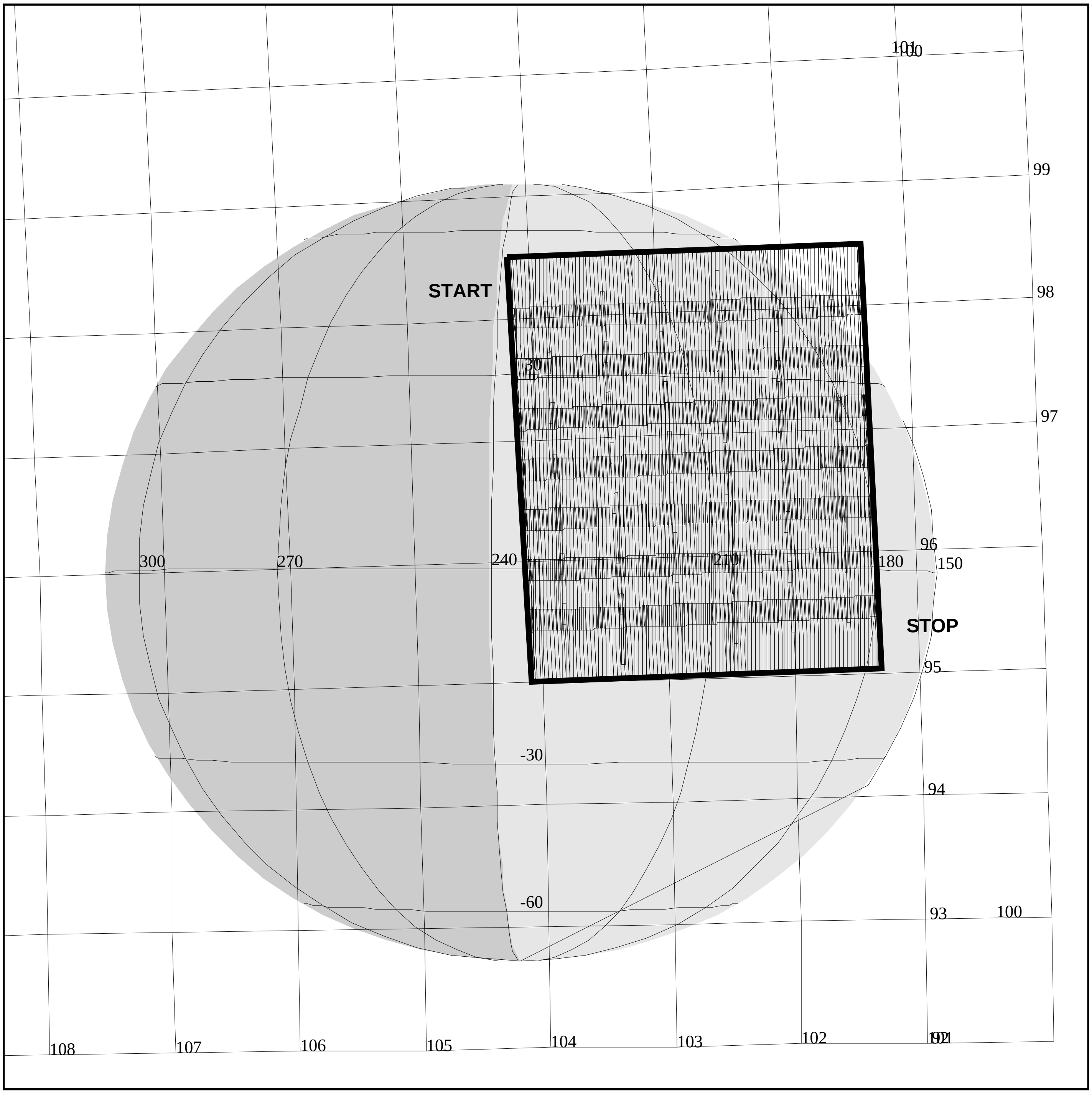

165DO:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6803 TC= 1(45 238)
A= 728 pD= 0 SR=17.450 RA50=236.08 DEC50=-19.30 cone=104.16 clock= 98.21
117DO:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/6803
1:#s= 8 Cs= -48.00 XCs= 0.00 Cr= 48.50 XCr= -7.00 sD= 202 rD= 28

11JNCYLMOS03

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNCYLMOS03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 1518:00:0

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

OBSERVATION:11JNCYLMOS03

DESCRIP:Jupiter_Cylindrical_Mosaic_03

Jupiter Cylindrical Mosaic Part 3	ACTIVITY ID:	11JNCYLMOS03-
	START TIME:	97-309/23:01:41.733

Activity ID: Orbit 11 Target J Inst N OAPEL CYLMOS SeqNo 03 -

Title	Jupiter Cylindrical Mosaic Part 3			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/05/97	Week	45

Start	JEE-CDS 00001523:00:0	97-309/23:01:41.733	JEE-001/01:39:55.333
End	JEE-CDS 00001508:00:0	97-309/23:16:51.733	JEE-001/01:24:45.333
Duration	00000015:00:0	000/00:15:10.000	000/00:15:10.000

Top Label	11JNCYLMOS03-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	160	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part three of six observations constituting the Jupiter large cylindrical mosaic. Jupiter imaged in 5 colors (1.594, 2.156, 2.721, 3.0011 and 4.982 microns) to obtain cylindrical maps covering plus or minus 30 degrees latitude depicting features at 590 km/NIMSel resolution. This map acquired near 240 degrees CML, at a phase angle near 90 degrees. Entire cylindrical map covers 195-105 degrees longitude.

Data Returned

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode, Nyquist sampling. Eight tiers covering most of the sunlit longitudes, acquired near 18 Rj, each covering plus or minus 30 degrees latitude in North/South direction and about 2/3 fractional radius in the East-West direction (i.e. 45 degrees of longitude at the Equator). About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
Four minutes reserved for targetting.
Fixed Map (XM), Gain 2, Grating Start 5, LPU.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E11JGM10A, E11JGM05A

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NIMS Real-Time Software Reload	ACTIVITY ID: 11NNRELOAD03-
	START TIME: 97-309/23:36:04.400

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 03 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/05/97 Week 45

Start	JEE-CDS 1489:00:0	97-309/23:36:04.400	JEE-001/01:05:32.666
End	JEE-CDS 1479:00:0	97-309/23:46:11.066	JEE-001/00:55:26.000
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label 11NNRELOAD03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL   - Halt NIMS Processor
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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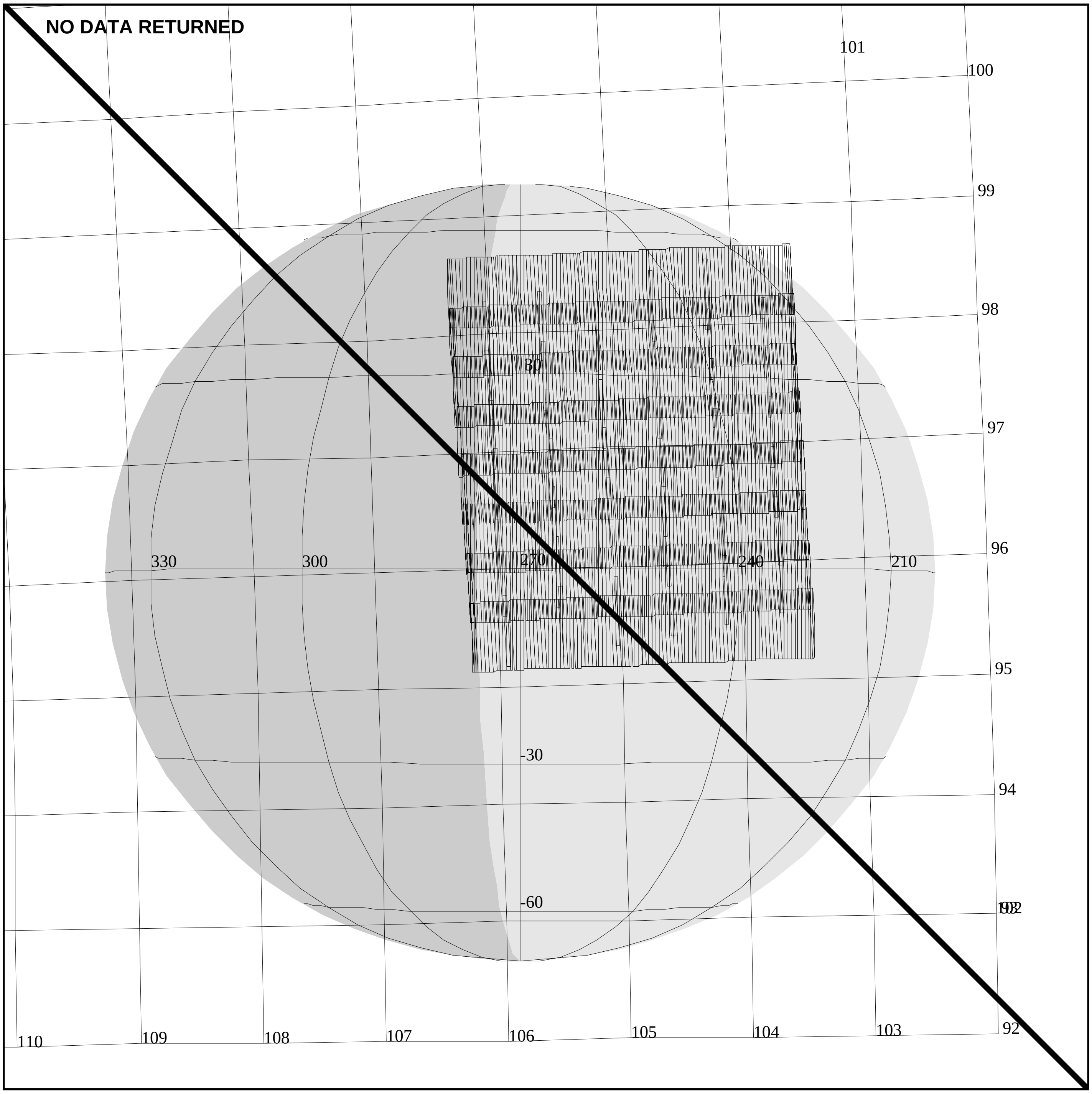

165DQ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/7359 TC= 1(45 283)
A= 546 pD= 0 SR=17.450 RA50=238.33 DEC50=-19.71 cone=106.31 clock= 98.37
117DQ:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/7359
1:#s= 8 Cs= -48.00 XCs= 0.00 Cr= 48.50 XCr= -7.00 sD= 202 rD= 28

11JNCYLMOS04

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNCYLMOS04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 1460:00:0

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

OBSERVATION:11JNCYLMOS04

DESCRIP:Jupiter_Cylindrical_Mosaic_04

Jupiter Cylindrical Mosaic Part 4	ACTIVITY ID: 11JNCYLMOS04- START TIME: 97-310/00:01:21.066

Activity ID: Orbit 11 Target J Inst N OAPEL CYLMOS SeqNo 04 -

Title	Jupiter Cylindrical Mosaic Part 4			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week	45

Start	JEE-CDS 00001464:00:0	97-310/00:01:21.066	JEE-001/00:40:16.000
End	JEE-CDS 00001450:00:0	97-310/00:15:30.400	JEE-001/00:26:06.666
Duration	00000014:00:0	000/00:14:09.334	000/00:14:09.334

Top Label	11JNCYLMOS04-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part four of six observations constituting the Jupiter large cylindrical mosaic. Jupiter imaged in 5 colors (1.594, 2.156, 2.721, 3.0011 and 4.982 microns) to obtain cylindrical maps covering plus or minus 30 degrees latitude depicting features at 570 km/NIMSel resolution. This map acquired near 220 degrees CML, at a phase angle near 90 degrees. Entire cylindrical map covers 195-105 degrees longitude.

No Data Returned

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode,
Nyquist sampling. Eight tiers covering most of the sunlit longitudes,
acquired near 18 Rj, each covering plus or minus 30 degrees latitude
in North/South direction and about 2/3 fractional radius in the East-West
direction (i.e. 45 degrees of longitude at the Equator).
About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
Four minutes reserved for targetting.
Fixed Map (XM), Gain 2, Grating Start 5, LPU.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E11JGM10A, E11JGM05A

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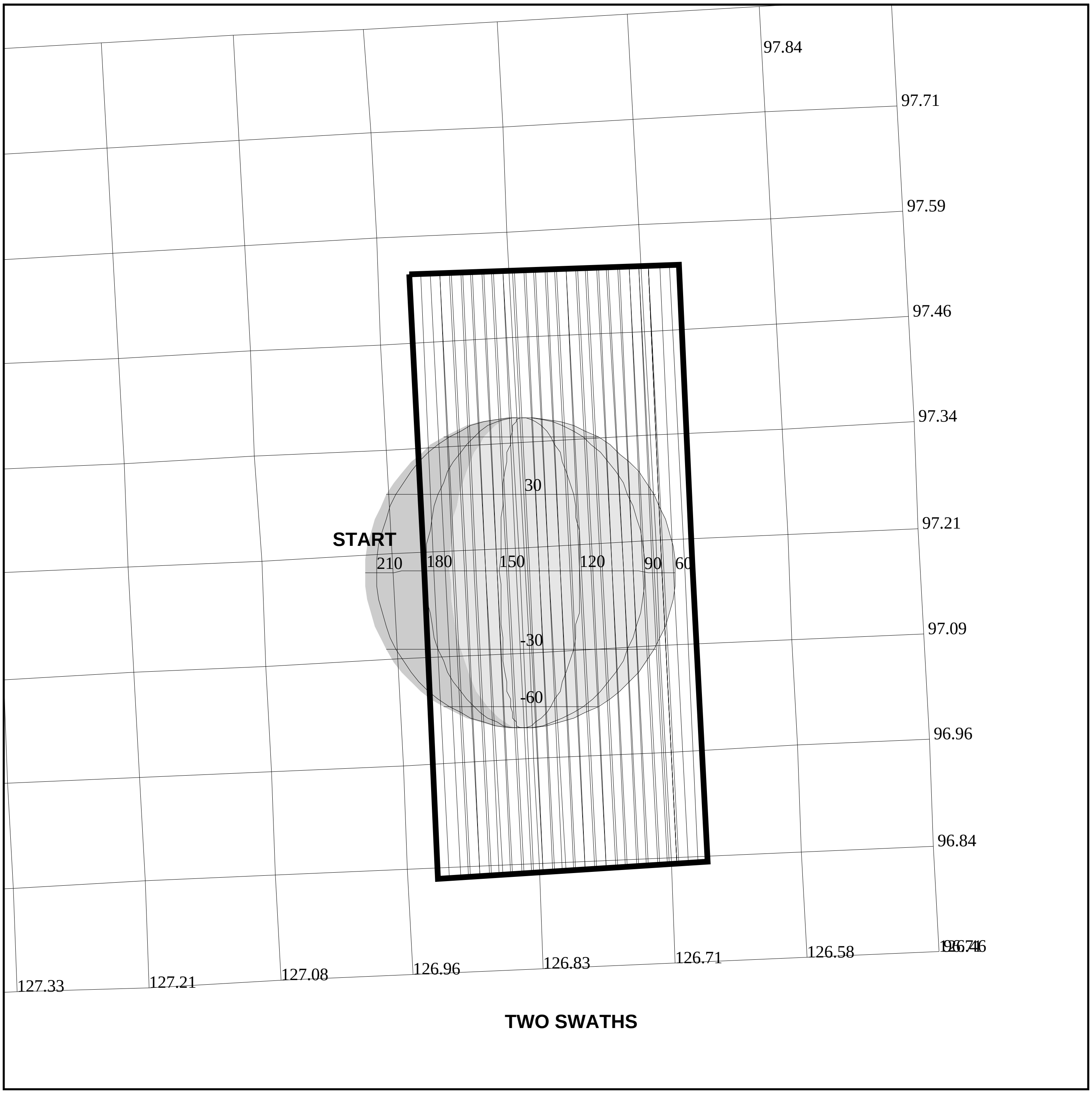

165ME:TT= 0 TMC= 1 C= 1.40 XC= 0.00 BS= 0/9907 TC= 3
A= 546 pD= 2940 SR=17.450 RA50=260.01 DEC50=-24.54 cone=126.92 clock= 97.18
117ME:#SB= 1 OR= 0.010 RR=17.000 BM=F RC= 1 BS= 0/9907
1:#s= 2 Cs= -4.00 XCs= 0.00 Cr= 4.00 XCr= 0.00 sD= 1456 rD= 28

11ENM20HR_01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11ENM20HR_01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:EEE 97-310/20:31:52.400 -CDS 1199:00:0

OBSERVATION:11ENM20HR_01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 2940 S= 0.300

DESCRIP:Europa_Global_Mosaic

Europa Obs Beyond 15 Rj — ACTIVITY ID: 11ENM20HR_01-
START TIME: 97-310/00:15:30.400

Activity ID: Orbit 11 Target E Inst N OAPEL M20HR_ SeqNo 01 -

Title	Europa Obs Beyond 15 Rj			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week	45

Start	EEE-CDS 00001203:00:0	97-310/00:15:30.400	EEE-000/20:16:22.000
End	EEE-CDS 00001180:00:0	97-310/00:38:45.734	EEE-000/19:53:06.666
Duration	00000023:00:0	000/00:23:15.334	000/00:23:15.334

Top Label 11ENM20HR_01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To observe Europa beyond 15 Jupiter radii at NIMS most sensitive gain state 4. One scan at gain state 4 and a second scan at gain state 3. This is the first of a set of three distant Europa observations.

Data Returned

Design Detail

NIMS mode = LM. Gains State = 4, 3 Record Mode = MPW and LPU.
This observation will require two scans.
First scan at MPW record mode at 8 RIMS in gain state 4
and the second scan at LPU record mode at 8 RIMS in gain state 3.
Assume three RIMS targetting. If targetting is less than three RIMS, consume the extra time on the first scan.

Latitude coverage = plus/minus 90 degrees.
West longitude coverage = 53 - 174 degrees.
Resolution = 300 km.
Cone angle = 126 degrees.
Phase angle = 63 degrees.

Two Swaths.
Long Map (LM), Gain 4, Grating Start 0, MPW, E11ELM442, E11ELM360
Long Map (LM), Gain 3, Grating Start 0, LPU, E11ELM243C, E11ELM228C

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NIMS Real-Time Software Reload	ACTIVITY ID: 11NNRELOAD04- START TIME: 97-310/01:05:03.066

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 04 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week	45

Start	JEE-CDS 1401:00:0	97-310/01:05:03.066	JEE-000/23:36:34.000
End	JEE-CDS 1391:00:0	97-310/01:15:09.733	JEE-000/23:26:27.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	11NNRELOAD04-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor
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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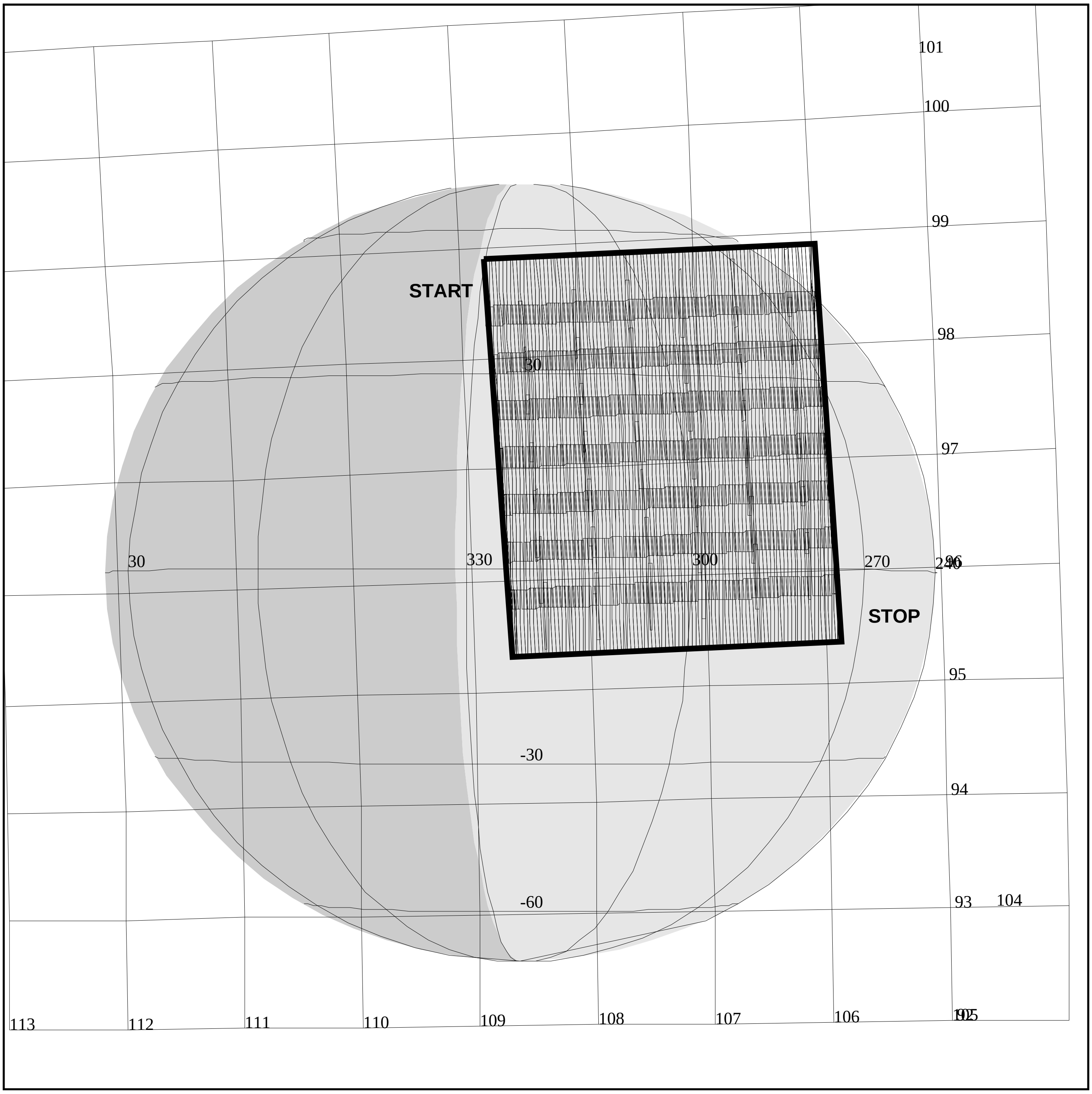

165DU:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3921 TC= 1(45 329)
A= 728 pD= 0 SR=17.450 RA50=240.93 DEC50=-20.11 cone=108.78 clock= 98.60
117DU:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/3921
1:#s= 8 Cs= -48.00 XCs= 0.00 Cr= 48.50 XCr= -7.00 sD= 202 rD= 28

11JNCYLMOS05

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNCYLMOS05

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 1369:00:0

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

OBSERVATION:11JNCYLMOS05

DESCRIP:Jupiter_Cylindrical_Mosaic_05

Jupiter Cylindrical Mosaic Part 5	ACTIVITY ID: 11JNCYLMOS05- START TIME: 97-310/01:32:21.066

Activity ID: Orbit 11 Target J Inst N OAPEL CYLMOS SeqNo 05 -

Title	Jupiter Cylindrical Mosaic Part 5	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/06/97 Week 45

Start	JEE-CDS 00001374:00:0	97-310/01:32:21.066	JEE-000/23:09:16.000
End	JEE-CDS 00001358:00:0	97-310/01:48:31.733	JEE-000/22:53:05.333
Duration	00000016:00:0	000/00:16:10.667	000/00:16:10.667

Top Label 11JNCYLMOS05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Part five of six observations constituting the Jupiter large cylindrical mosaic. Jupiter imaged in 5 colors (1.594, 2.156, 2.721, 3.0011 and 4.982 microns) to obtain cylindrical maps covering plus or minus 30 degrees latitude depicting features at 550 km/NIMSel resolution. This map acquired near 320 degrees CML, at a phase angle near 90 degrees. Entire cylindrical map covers 195-105 degrees longitude.

Data Returned

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode,
Nyquist sampling. Eight tiers covering most of the sunlit longitudes, acquired near 18 Rj, each covering plus or minus 30 degrees latitude in North/South direction and about 2/3 fractional radius in the East-West direction (i.e. 45 degrees of longitude at the Equator).
About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
Four minutes reserved for targetting.
Fixed Map (XM), Gain 2, Grating Start 5, LPU.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E11JGM10A, E11JGM05A

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NIMS Real-Time Software Reload	ACTIVITY ID: 11NNRELOAD05- START TIME: 97-310/02:14:49.066

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 05 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week	45

Start	JEE-CDS 1332:00:0	97-310/02:14:49.066	JEE-000/22:26:48.000
End	JEE-CDS 1322:00:0	97-310/02:24:55.733	JEE-000/22:16:41.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 11NNRELOAD05-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

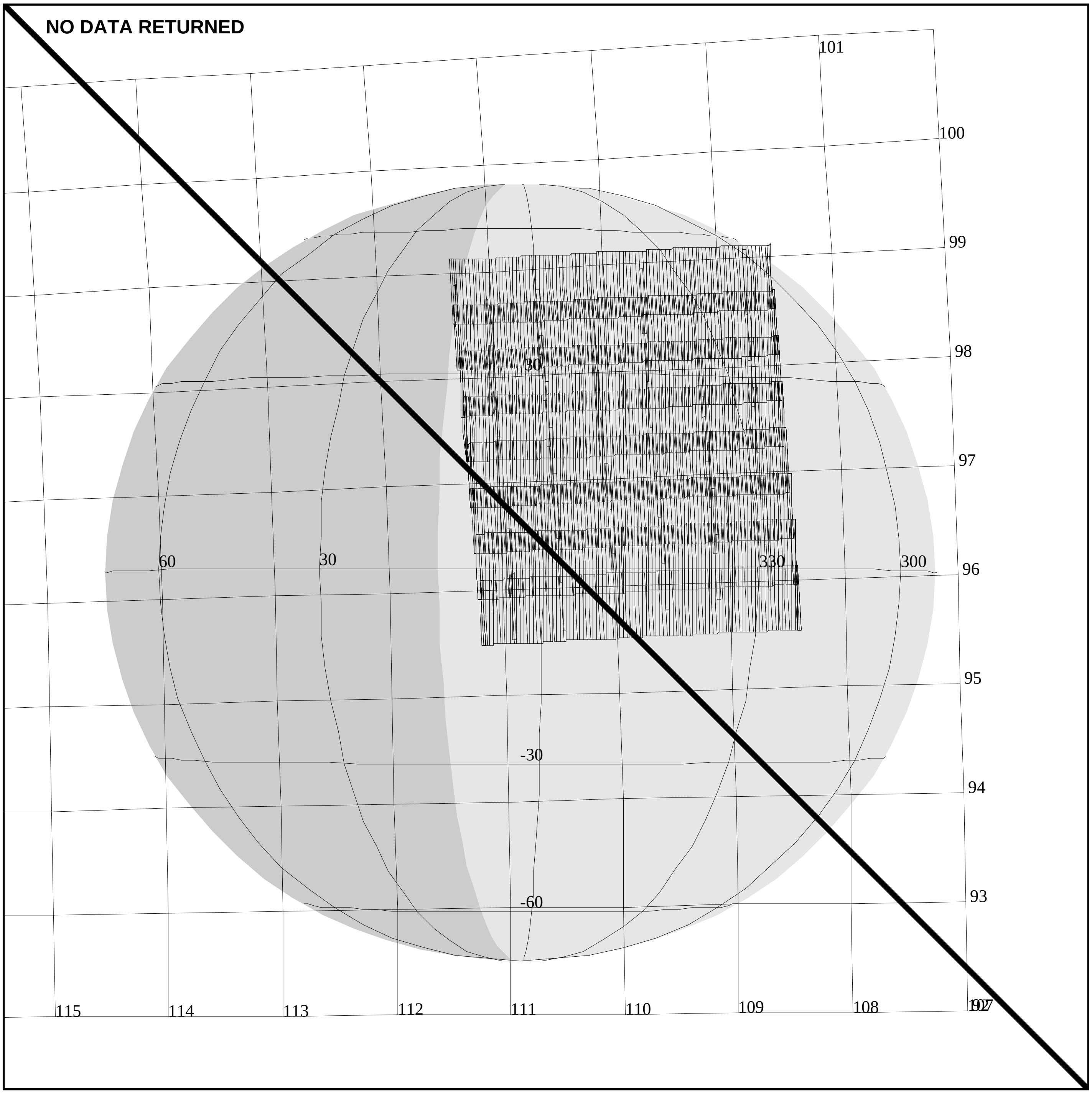
Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS, Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor
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.



165DW:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6479 TC= 1(45 15)
A= 728 pD= 0 SR=17.450 RA50=243.62 DEC50=-20.51 cone=111.33 clock= 98.82
117DW:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/6479
1:#s= 8 Cs= -48.00 XCs= 0.00 Cr= 48.50 XCr= -7.00 sD= 202 rD= 28

11JNCYLMOS06

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNCYLMOS06

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 -CDS 1300:00:0

OBSERVATION:11JNCYLMOS06

THINNING:NIM 2

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

DESCRIP:Jupiter_Cylindrical_Mosaic_06

```
Jupiter Cylindrical Mosaic Part 6        ACTIVITY ID:   11JNCYLMOS06-
                                          START TIME:   97-310/02:42:07.066

Activity ID: Orbit 11  Target J  Inst N  OAPEL CYLMOS  SeqNo 06 -

Title         Jupiter Cylindrical Mosaic Part 6       Instrument       NIMS
Requestor     NIMS-AWG/K. BAINES         Team   NIMS  Working Group    AWG

Time System  CDS       Load ID         Calendar Date  11/06/97  Week  45

Start         JEE-CDS 00001305:00:0 97-310/02:42:07.066   JEE-000/21:59:30.000
End           JEE-CDS 00001290:00:0 97-310/02:57:17.066   JEE-000/21:44:20.000
Duration             00000015:00:0     000/00:15:10.000       000/00:15:10.000

Top Label     11JNCYLMOS06-
Bottom Label

Plot Key      NIMS      Type            SCI
CDS Bytes         170   Report Options  BOTH          Scan Platform      Yes
CDS Source    OAP       Spin State      DUAL          DMS                Yes
```

Observation Objective

Part six of six observations constituting the Jupiter large cylindrical mosaic. Jupiter imaged in 5 colors (1.594, 2.156, 2.721, 3.0011 and 4.982 microns) to obtain cylindrical maps covering plus or minus 30 degrees latitude depicting features at 530 km/NIMSel resolution. This map acquired near 310 degrees CML, at a phase angle near 90 degrees. Entire cylindrical map covers 195-105 degrees longitude.

No Data Returned

Design Detail

See OPG (page A-17). Fixed grating mode, in 1/2 NIMS mode,
Nyquist sampling. Eight tiers covering most of the sunlit longitudes, acquired near 18 Rj, each covering plus or minus 30 degrees latitude in North/South direction and about 2/3 fractional radius in the East-West direction (i.e. 45 degrees of longitude at the Equator).
About 10 minutes of scanning, accumulating 0.925 MBTG and 0.0202 tracks.
Four minutes reserved for targetting.
Fixed Map (XM), Gain 2, Grating Start 5, LPU.

Fixed Map (XM), Gain 2, Grating Start 5, LPU, E11JGM10A, E11JGM05A

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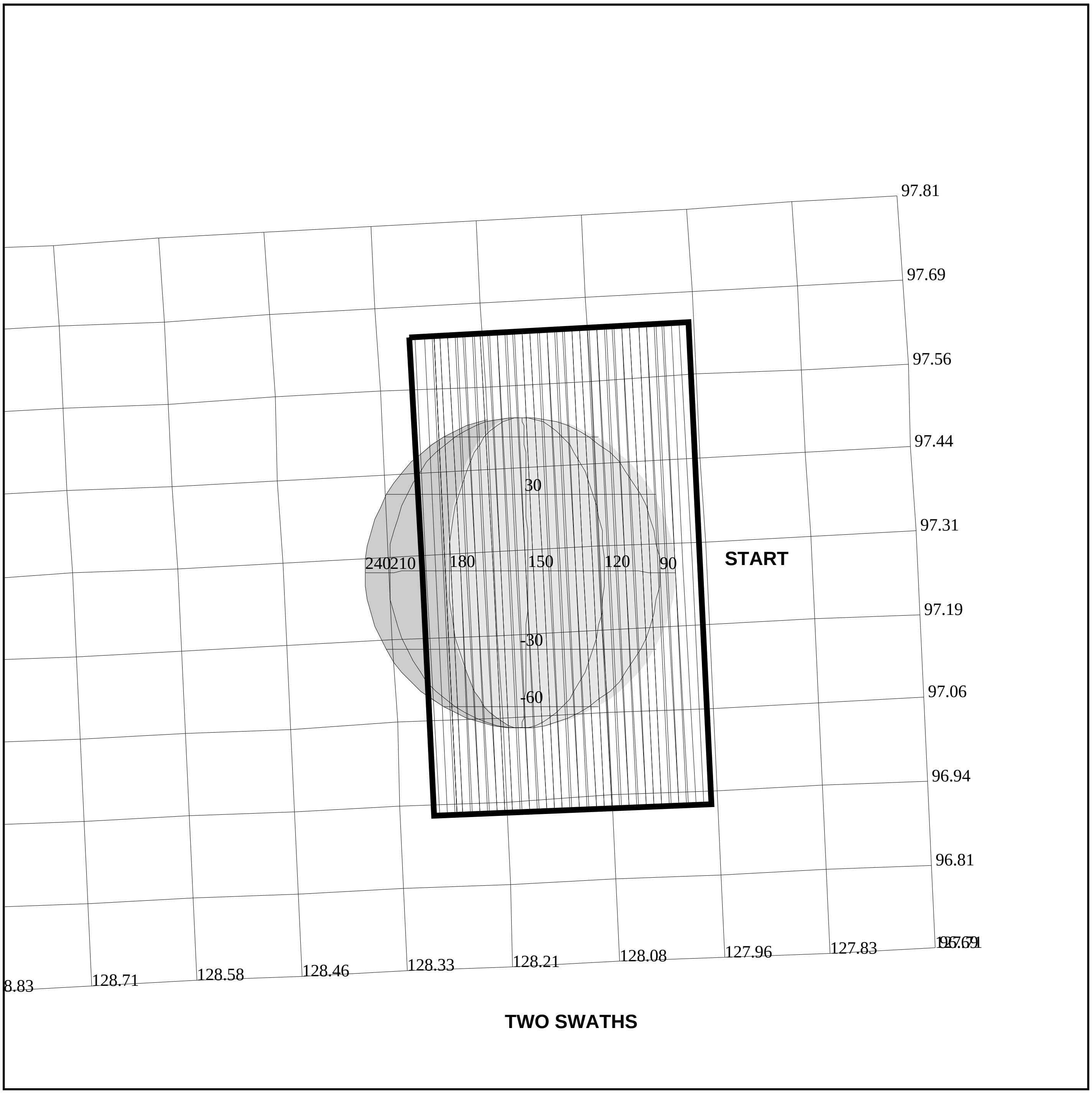

165DX:TT= 0 TMC= 1 C= -3.50 XC= 0.00 BS= 0/8845 TC= 3
A= 364 pD= 3446 SR=17.450 RA50=261.18 DEC50=-24.57 cone=127.98 clock= 97.28
117DX:#SB= 2 OR= 0.010 RR=17.000 BM=F RC= 1 BS= 0/8845
1:#s= 1 Cs= 5.36 XCs= 0.00 Cr= -5.36 XCr= 0.00 sD= 1800 rD= 28
2:#s= 1 Cs= 5.36 XCs= 0.00 Cr= -5.36 XCr= 0.00 sD= 1618 rD= 28

11ENM17HR_01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11ENM17HR_01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:EEE 97-310/20:31:52.400 -CDS 1040:00:0

OBSERVATION:11ENM17HR_01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 3446 S= 0.300

DESCRIP:Europa_Global_Mosaic

Europa Obs Beyond 15 Rj	ACTIVITY ID: 11ENM17HR_01- START TIME: 97-310/02:57:17.067

Activity ID: Orbit 11 Target E Inst N OAPEL M17HR_ SeqNo 01 -

Title	Europa Obs Beyond 15 Rj			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 11/06/97 Week 45

Start	EEE-CDS 00001043:00:0	97-310/02:57:17.067	EEE-000/17:34:35.333
End	EEE-CDS 00001018:00:0	97-310/03:22:33.734	EEE-000/17:09:18.666
Duration	00000025:00:0	000/00:25:16.667	000/00:25:16.667

Top Label 11ENM17HR_01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To observe Europa beyond 15 Jupiter radii in NIMS most sensitive gain state (GS = 4).   One scan and second scan at gain state 3. This is the second of a set of three distant Europa observations.

Data Returned

Design Detail

NIMS mode = LM Gain State = 3,4 Record Mode = MPW and LPU.
The first scan is at MPW record mode at 9 RIMS in gain state 4.
The second scan is at LPU record mode at 8 RIMS in gain state 3.
Assume three RIMS targetting. If targetting time is less than three RIMS, use remaining time on first scan.

Latitude coverage = plus/minus 90 degrees.
West longitude coverage = 72 - 129 degrees.
Resolution = 235 km.
Number of scans = 1.
Percentage overlap = 80%.
Cone = 128 degrees.
Phase angle = 62 degrees.
Two Swaths
Long Map (LM), Gain 4, Grating Start 0, MPW, E11ELM442, E11ELM360
Long Map (LM), Gain 3, Grating Start 0, LPU, E11ELM243C, E11ELM228C

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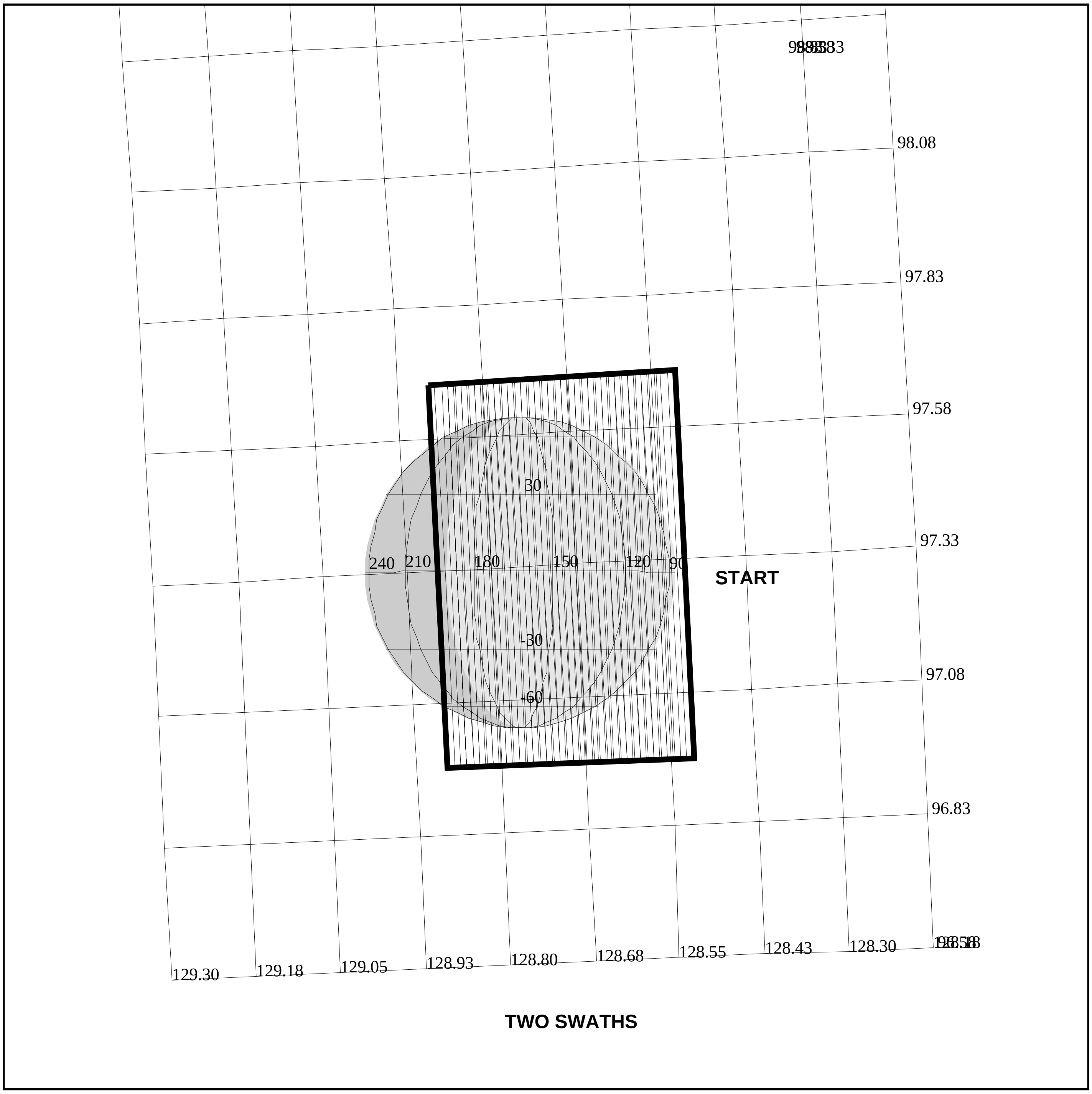

165DY:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/4871 TC= 3
A= 546 pD= 3814 SR=17.450 RA50=261.79 DEC50=-24.60 cone=128.53 clock= 97.32
117DY:#SB= 2 OR= 0.010 RR=17.000 BM=F RC= 1 BS= 0/4871
1:#s= 1 Cs= 5.95 XCs= 0.00 Cr= -5.95 XCr= 0.00 sD= 1980 rD= 28
2:#s= 1 Cs= 5.95 XCs= 0.00 Cr= -5.95 XCr= 0.00 sD= 1806 rD= 28

11ENM15HR_01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11ENM15HR_01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:EEE 97-310/20:31:52.400 -CDS 897:00:0

OBSERVATION:11ENM15HR_01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 3814 S= 0.300

DESCRIP:Europa_Global_Mosaic

Europa Observation at Minus 15 Hours	ACTIVITY ID: 11ENM15HR_01- START TIME: 97-310/05:20:51.734

Activity ID: Orbit 11 Target E Inst N OAPEL M15HR_ SeqNo 01 -

Title	Europa Observation at Minus 15 Hours			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week 45

Start	EEE-CDS 00000901:00:0	97-310/05:20:51.734	EEE-000/15:11:00.666
End	EEE-CDS 00000875:00:0	97-310/05:47:09.067	EEE-000/14:44:43.333
Duration	00000026:00:0	000/00:26:17.333	000/00:26:17.333

Top Label 11ENM15HR_01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

To observe Europa at minus 15 hours. The first scan is in gain state 4 and the second scan is in gain state 3. This is the last of a set of three observations.

Data Returned

Design Detail

NIMS Mode = LM Gain State = 4,3. Record Mode = MPW and LPU.
First scan is at MPW record mode at 10 RIMS in gain state 4.
The second scan is at LPU record mode at 10 RIMS in gain state 3.
Assume three RIMS targetting time. If targetting time is less than three RIMS, then use remaining time on the first scan.

Latitude coverage = plus/minus 90 degrees.
West longitude = 80 - 122 degrees.
Resolution = 190 km.
Cone angle = 128 degrees.
Phase angle = 61 degrees.

Two Swaths

Long Map (LM), Gain 4, Grating Start 0, MPW, E11ELM442, E11ELM360
Long Map (LM), Gain 3, Grating Start 0, LPU, E11ELM243C, E11ELM228C

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NIMS Real-Time Software Reload	ACTIVITY ID: 11NNRELOAD06- START TIME: 97-310/13:14:03.733

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 06 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week	45

Start	JEE-CDS 680:00:0	97-310/13:14:03.733	JEE-000/11:27:33.333
End	JEE-CDS 670:00:0	97-310/13:24:10.400	JEE-000/11:17:26.666
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	11NNRELOAD06-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor
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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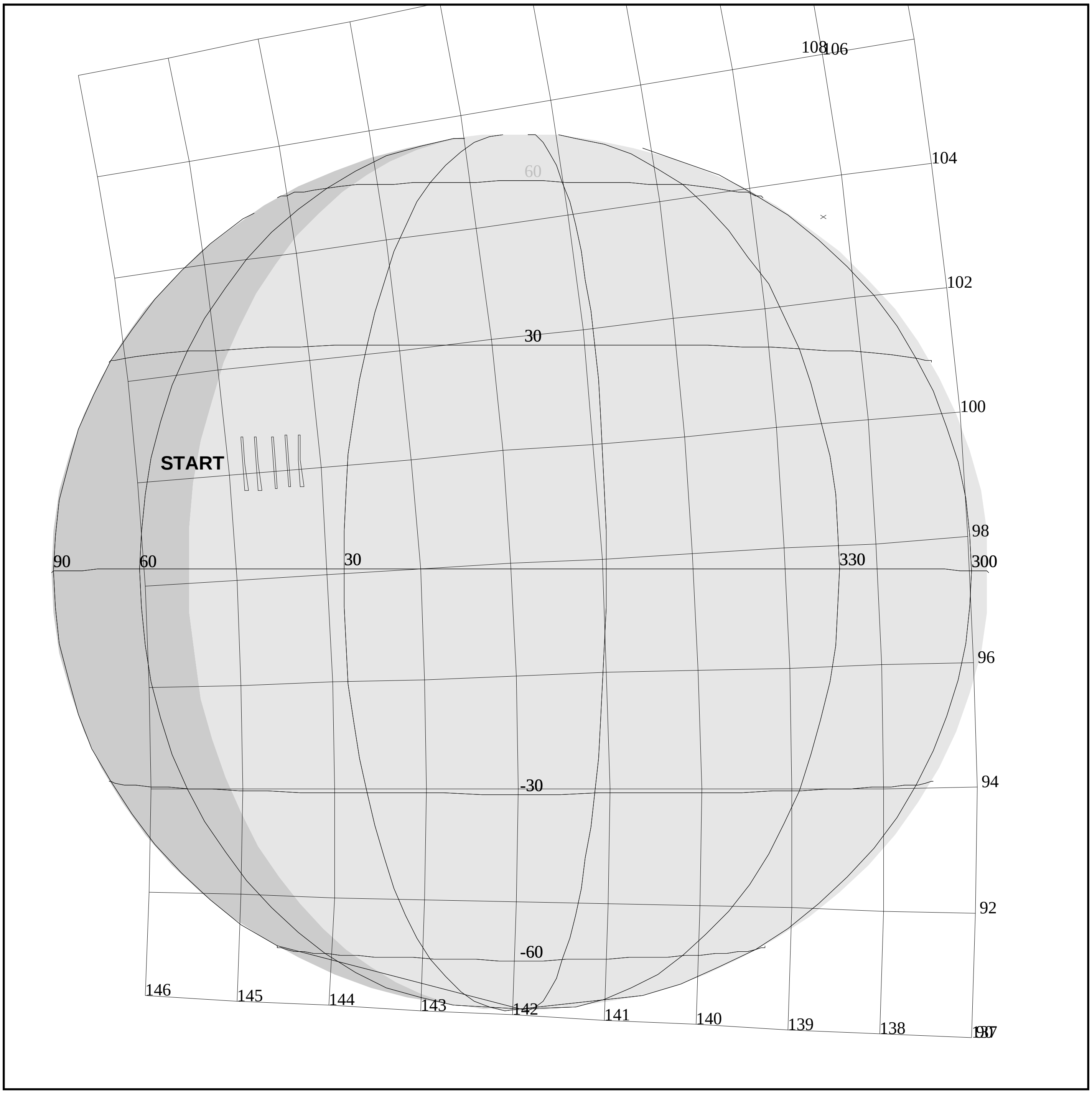


165KH:TT=   0 TMC= 1 C=   5.50 XC=   0.00 BS= 0/4961 TC= 1(14   40   )
A= 728 pD=   0 SR=17.450 RA50=279.73 DEC50=-23.39 cone=144.84 clock=100.18
117KH:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4961
1:#s= 1 Cs=   -9.00 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD=   910 rD=   2

11JNRTBRG_01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNRTBRG_01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066   -CDS 649:00:0

OBSERVATION:11JNRTBRG_01

THINNING:NIM   2

BODY PLOT TIME:TARGET-TIME D=   0 S= 0.900

DESCRIP:NIMS_Real_Time_Brown_Barge

NIMS Real-Time Brown Barge Obs	ACTIVITY ID: 11JNRTBRG_01- START TIME: 97-310/13:39:20.400

Activity ID: Orbit 11 Target J Inst N OAPEL RTBRG_ SeqNo 01 -

Title	NIMS Real-Time Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week	45

Start	JEE-CDS 00000655:00:0	97-310/13:39:20.400	JEE-000/11:02:16.666
End	JEE-CDS 00000641:00:0	97-310/13:53:29.733	JEE-000/10:48:07.333
Duration	00000014:00:0	000/00:14:09.333	000/00:14:09.333

Top Label 11JNRTBRG_01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To observe the Brown Barge feature in real-time.

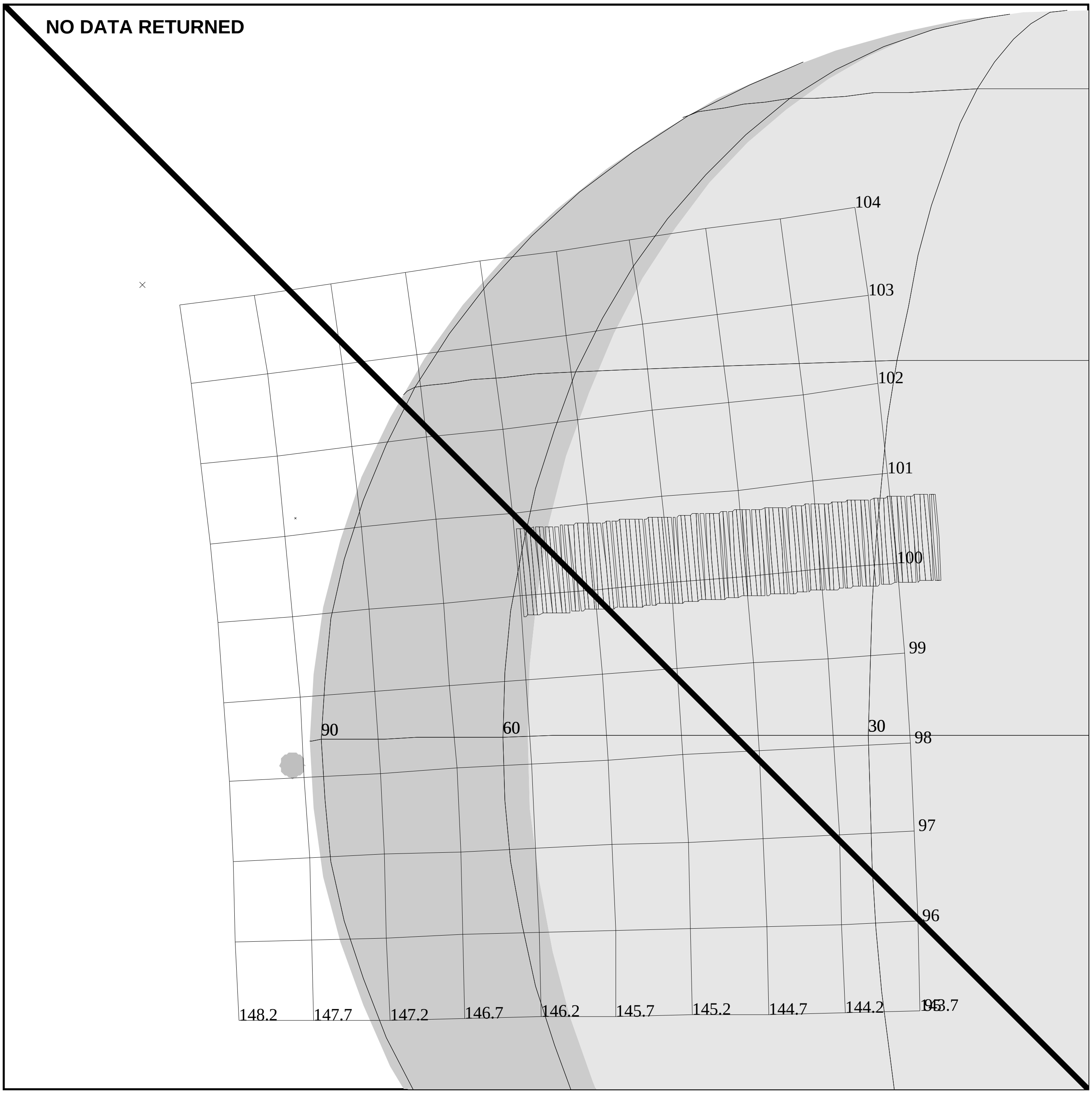
Data Returned

Design Detail

Long map, Nyquist sampling. Location is 52 degrees West longitude,
14 degrees North latitude. Barge location has a large uncertainty of
40-65 degrees West longitude.
Range is 10.4 Rj, incidence angle is 89.0 degrees,
emission angle is 40.5 degrees. Assume four RIMS of targetting.

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

Long Map (LM), Gain 2, Grating Start 0, R/T, E11JLM442/MB



165EA:TT= 0 TMC= 1 C= 9.00 XC= 0.00 BS= 0/6781 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=281.23 DEC50=-23.33 cone=146.22 clock=100.28
117EA:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/6781
1:#s= 1 Cs= -46.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1270 rD= 2

11JNBRG04201

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG04201

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 -CDS 639:00:0

OBSERVATION:11JNBRG04201

THINNING:NIM 2

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

DESCRIP:BROWN_BARGE_OBS_42_DEG_PHASE

Brown Barge Observation 42 deg phase	ACTIVITY ID: 11JNBRG04201- START TIME: 97-310/13:53:29.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG042 SeqNo 01 -

Title	Brown Barge Observation 42 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week	45

Start	JEE-CDS 00000641:00:0	97-310/13:53:29.733	JEE-000/10:48:07.333
End	JEE-CDS 00000632:00:0	97-310/14:02:35.733	JEE-000/10:39:01.333
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label 11JNBRG04201-
Bottom Label

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

Observation Objective

First of five OAPels constituting observations at the Brown Barge feature at 42 degrees phase.

No Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has large uncertainty of 40-65 degrees. Range is 10.4 Rj, NIMS IFOV 370 km. Nominal incidence angle is 83.9 degrees, emission angle is 41.9 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

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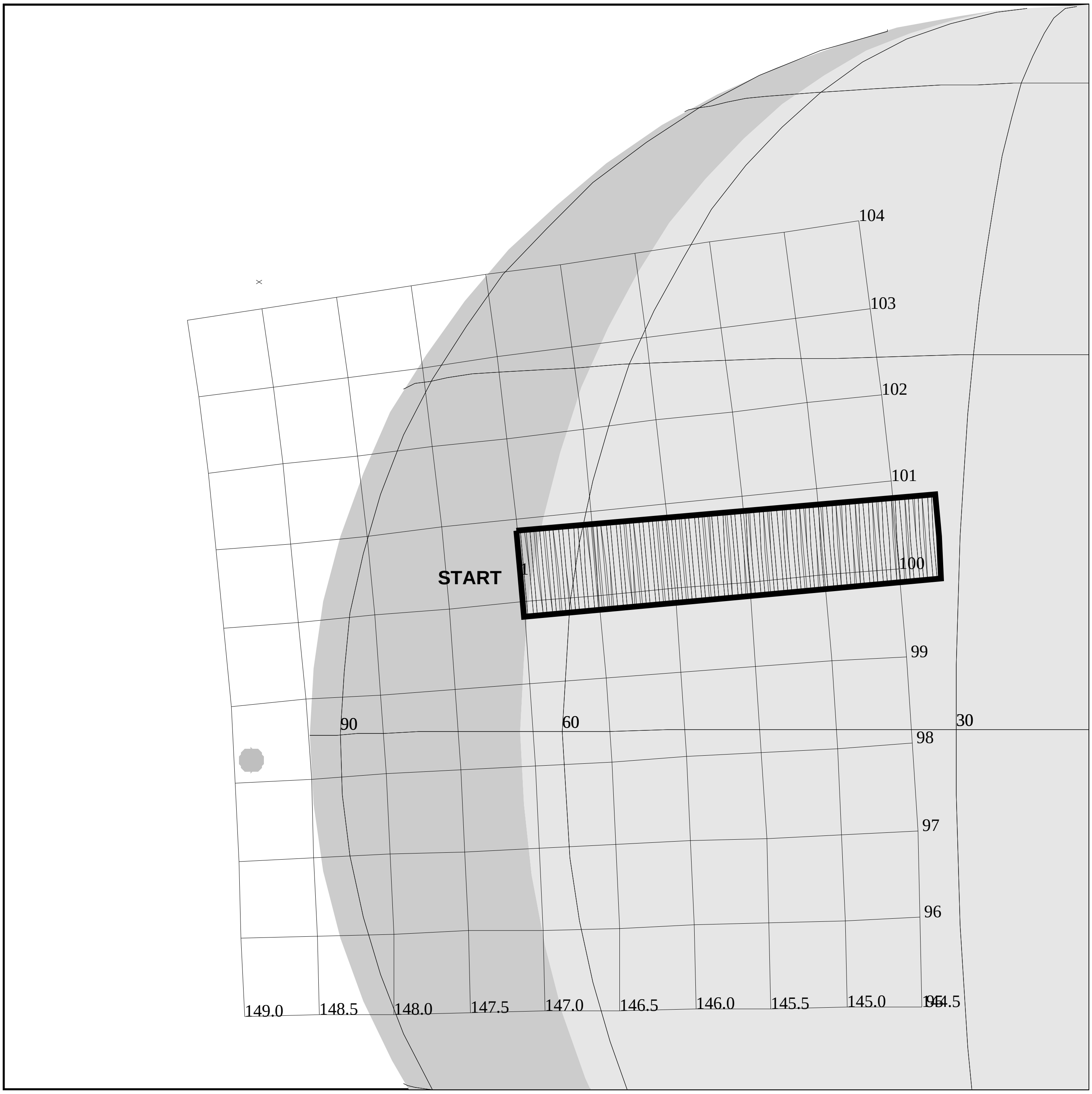


165EB:TT= 0 TMC= 1 C= 17.00 XC= 0.00 BS= 0/8783 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50=282.06 DEC50=-23.28 cone=146.98 clock=100.36
117EB:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8783
1:#s= 1 Cs= -46.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1274 rD= 2

11JNBRG04202

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG04202

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 -CDS 628:00:0

OBSERVATION:11JNBRG04202

THINNING:NIM 2

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

DESCRIP:BROWN_BARGE_OBS_42_DEG_PHASE

Brown Barge Observation 42 deg phase	ACTIVITY ID:	11JNBRG04202-
	START TIME:	97-310/14:02:35.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG042 SeqNo 02 -

Title	Brown Barge Observation 42 deg phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week	45

Start	JEE-CDS 00000632:00:0	97-310/14:02:35.733	JEE-000/10:39:01.333
End	JEE-CDS 00000621:14:0	97-310/14:13:33.733	JEE-000/10:28:03.333
Duration	00000010:77:0	000/00:10:58.000	000/00:10:58.000

Top Label   11JNBRG04202-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	170	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

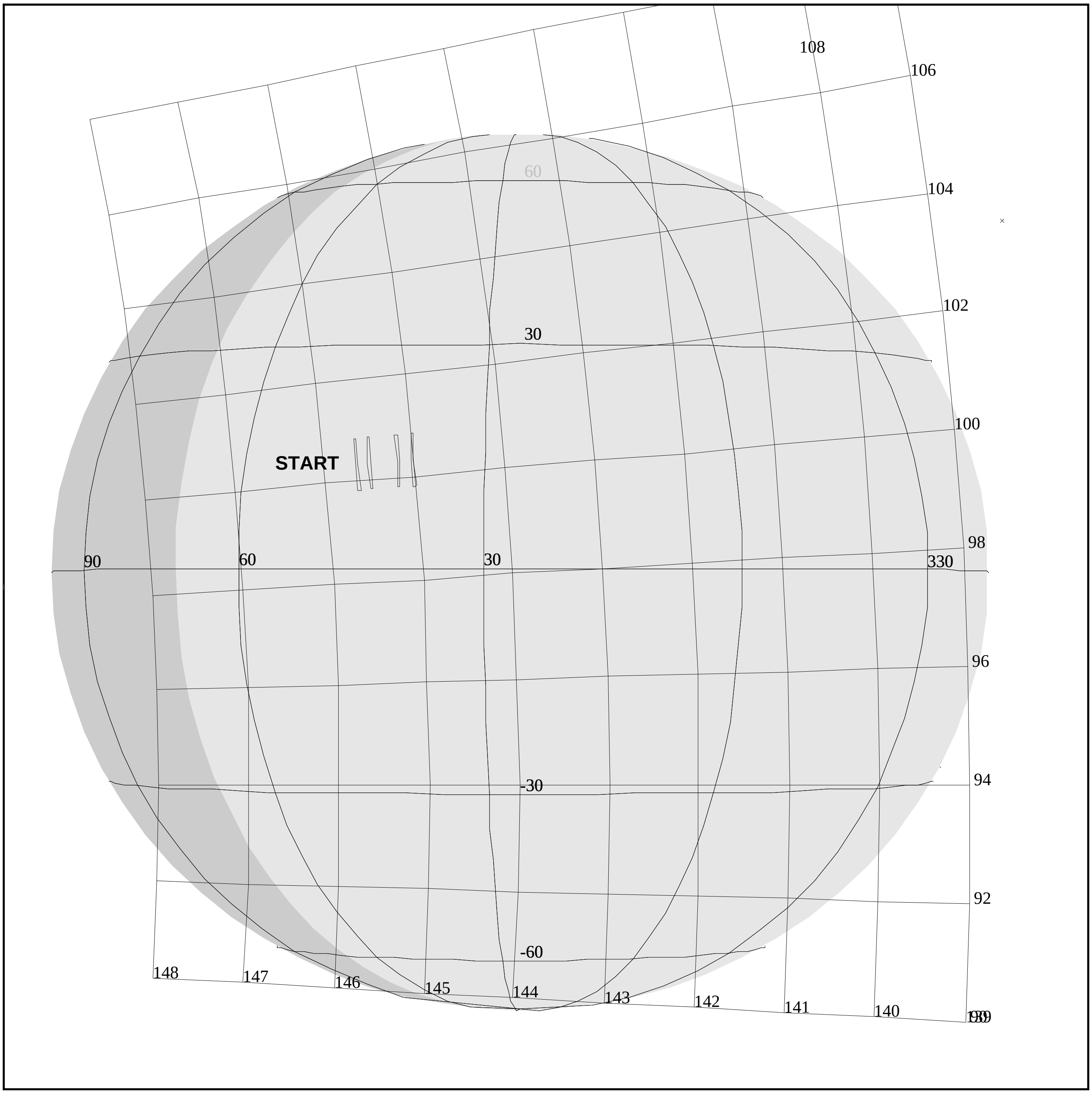
Second of five OAPels constituting observation of the Brown Barge feature at 42degrees phase angle.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude.
Range is 10.1 Rj, NIMS IFOV = 370 km.
Nominal incidence angle is 76.6 degrees, emission angle is 35.4 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT04B



165KI:TT= 0 TMC= 1 C= 8.50 XC= 0.00 BS= 0/0421 TC= 1(14 40)
A= 182 pD= 0 SR=17.450 RA50=280.61 DEC50=-23.30 cone=145.65 clock=100.34
117KI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0421
1:#s= 1 Cs= -14.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1456 rD= 2

11JNRTBRG_02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNRTBRG_02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 -CDS 619:00:0

OBSERVATION:11JNRTBRG_02

THINNING:NIM 7

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

DESCRIP:NIMS_Real_Time_Brown_Barge

NIMS Real-Time Brown Barge Obs	ACTIVITY ID: 11JNRTBRG_02- START TIME: 97-310/14:13:34.400

Activity ID: Orbit 11 Target J Inst N OAPEL RTBRG_ SeqNo 02 -

Title	NIMS Real-Time Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week	45

Start	JEE-CDS 00000621:13:0	97-310/14:13:34.400	JEE-000/10:28:02.666
End	JEE-CDS 00000611:00:0	97-310/14:23:49.733	JEE-000/10:17:47.333
Duration	00000010:13:0	000/00:10:15.333	000/00:10:15.333

Top Label 11JNRTBRG_02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To observe the Brown Barge feature in real-time.

Data Returned

Design Detail

Long map, Nyquist sampling. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has large uncertainty of 40-65 degrees. Range is 10.4 Rj, incidence angle is 89.0 degrees, emission angle is 40.4 degrees. Assume one RIMS of targetting.

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

Long Map (LM), Gain 2, Grating Start 0, R/T, E11JLM442/MB

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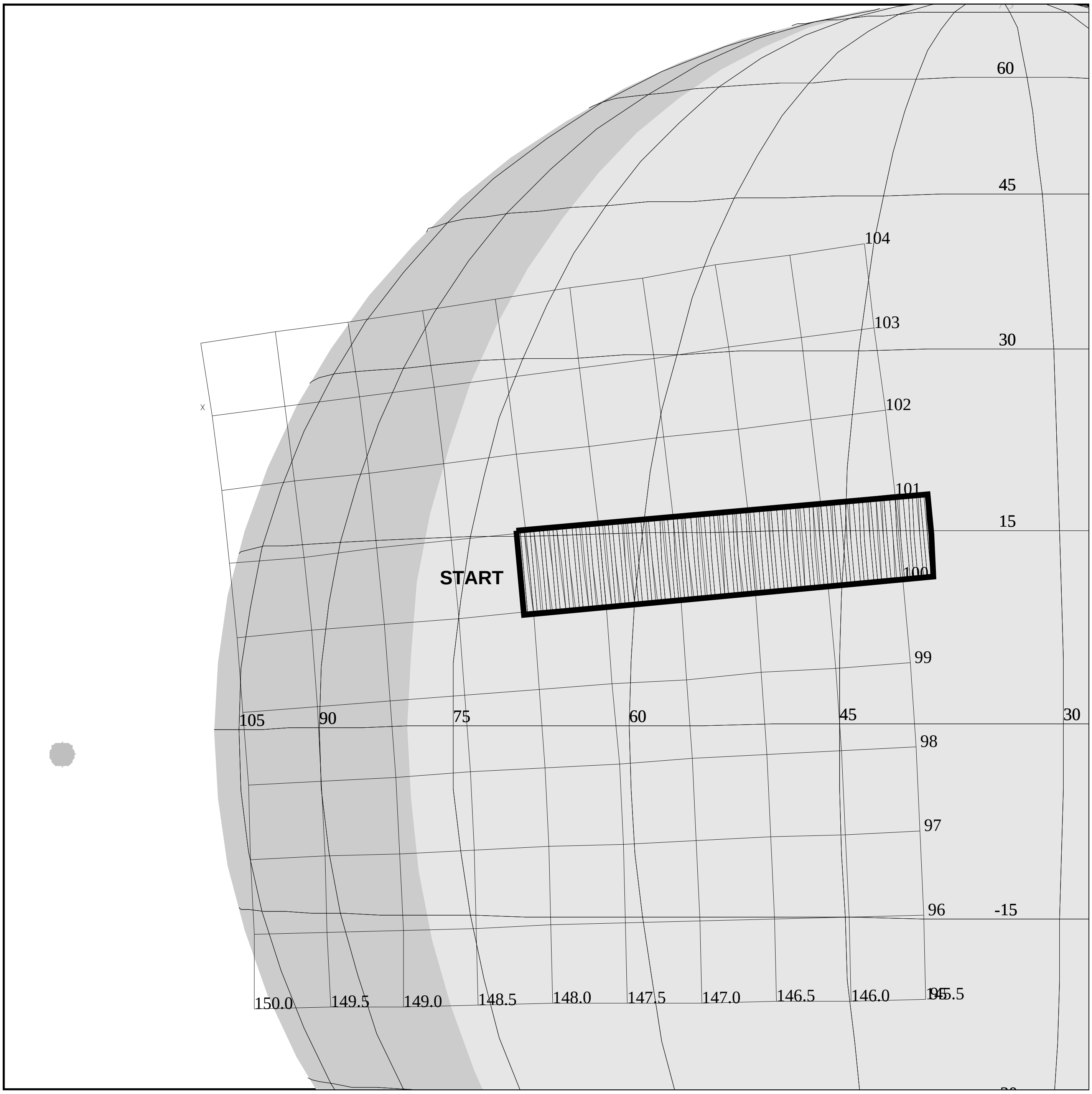


165EC:TT= 0 TMC= 1 C= 26.50 XC= 0.00 BS= 0/3333 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=283.28 DEC50=-23.19 cone=148.10 clock=100.51
117EC:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3333
1:#s= 1 Cs= -46.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1270 rD= 2

11JNBRG04203

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG04203

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 603:00:0

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

OBSERVATION:11JNBRG04203

DESCRIP:BROWN_BARGE_OBS_42_DEG_PHASE

Brown Barge Observation 42 deg phase	ACTIVITY ID:	11JNBRG04203-
	START TIME:	97-310/14:29:53.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG042 SeqNo 03 -

Title	Brown Barge Observation 42 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week	45

Start	JEE-CDS 00000605:00:0	97-310/14:29:53.733	JEE-000/10:11:43.333
End	JEE-CDS 00000596:00:0	97-310/14:38:59.733	JEE-000/10:02:37.333
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	11JNBRG04203-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	160	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Third of five OAPels constituting observations of the Brown Barge feature of 42 degrees phase angle.

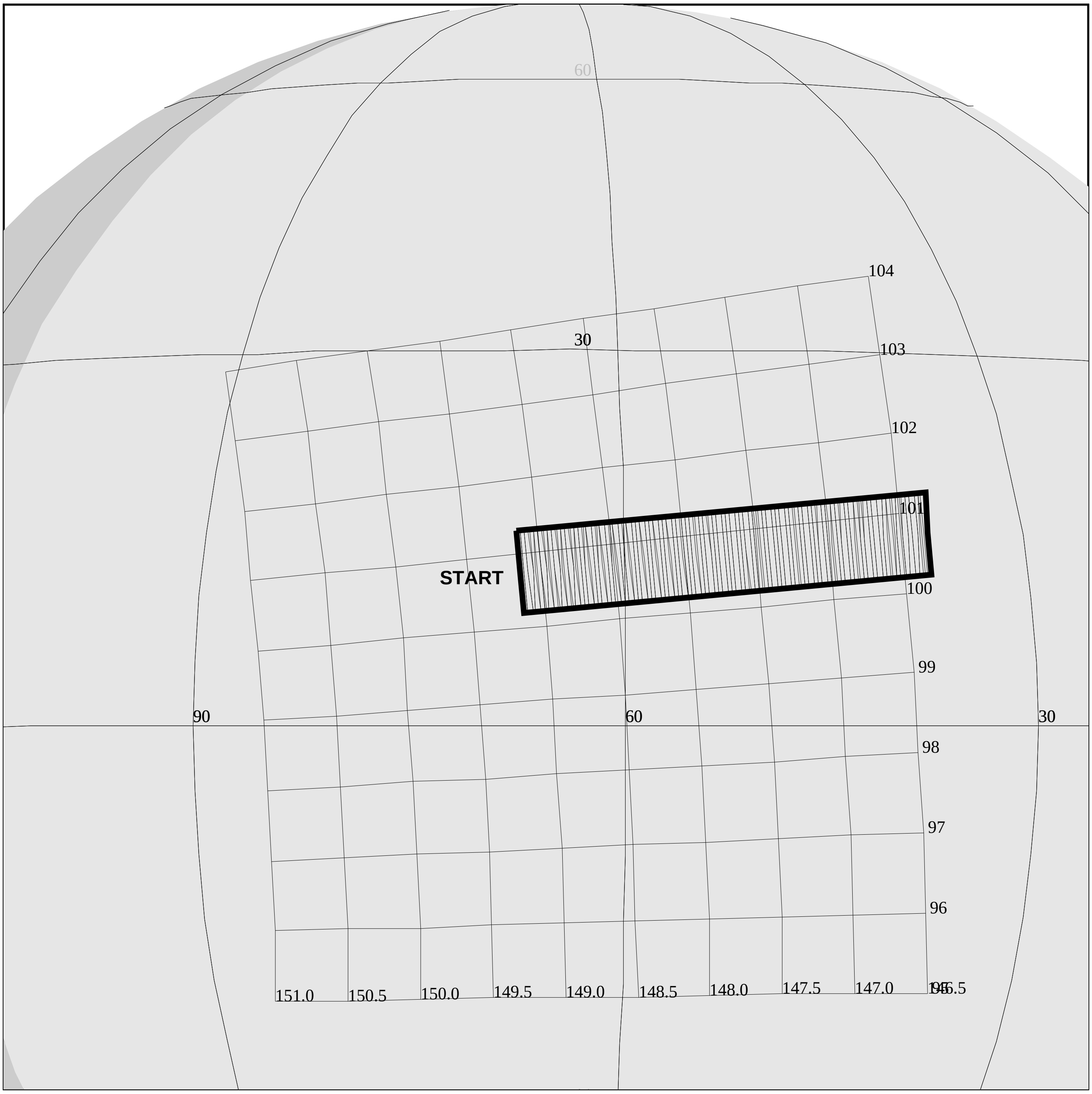
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 9.8 Rj, NIMS IFOV = 360 km. Nominal incidence angle is 60.9 degrees, emission angle is 22.4 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form   09/25/97 15:49:59   rev 6/95



165ED:TT= 0 TMC= 1 C= 26.50 XC= 0.00 BS= 0/3161 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=284.37 DEC50=-23.04 cone=149.11 clock=100.74
117ED:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3161
1:#s= 1 Cs= -46.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1270 rD= 2

11JNBRG04204

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG04204

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 -CDS 549:00:0

OBSERVATION:11JNBRG04204

THINNING:NIM 2

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

DESCRIP:BROWN_BARGE_OBS_42_DEG_PHASE

Brown Barge Observation 42 deg phase	ACTIVITY ID:	11JNBRG04204-
	START TIME:	97-310/15:24:29.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG042 SeqNo 04 -

Title	Brown Barge Observation 42 deg phase	Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES Team NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97 Week 45

Start	JEE-CDS 00000551:00:0	97-310/15:24:29.733	JEE-000/09:17:07.333
End	JEE-CDS 00000542:00:0	97-310/15:33:35.733	JEE-000/09:08:01.333
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label 11JNBRG04204-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	160	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fourth of five OAPels constituting observations of the Brown Barge feature at 42 degrees phase. Observation acquired near central meridian.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 9.7 Rj, NIMS IFOV approximately 350 km. Nominal incidence angle is 30.2 degrees, emission angle is 21.0 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:49:59 rev 6/95

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Test of special load	ACTIVITY ID: 11NNLDTEST01- START TIME: 97-310/16:41:20.400

Activity ID: Orbit 11 Target N Inst N OAPEL LDTEST SeqNo 01 -

Title	Test of special load			Instrument	NIMS
Requestor	NIMS-SWG/m. segura	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week 45

Start	JEE-CDS 00000475:00:0	97-310/16:41:20.400	JEE-000/08:00:16.666
End	JEE-CDS 00000471:00:0	97-310/16:45:23.066	JEE-000/07:56:14.000
Duration	00000004:00:0	000/00:04:02.666	000/00:04:02.666

Top Label	11NNLDTEST01-
Bottom Label	

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

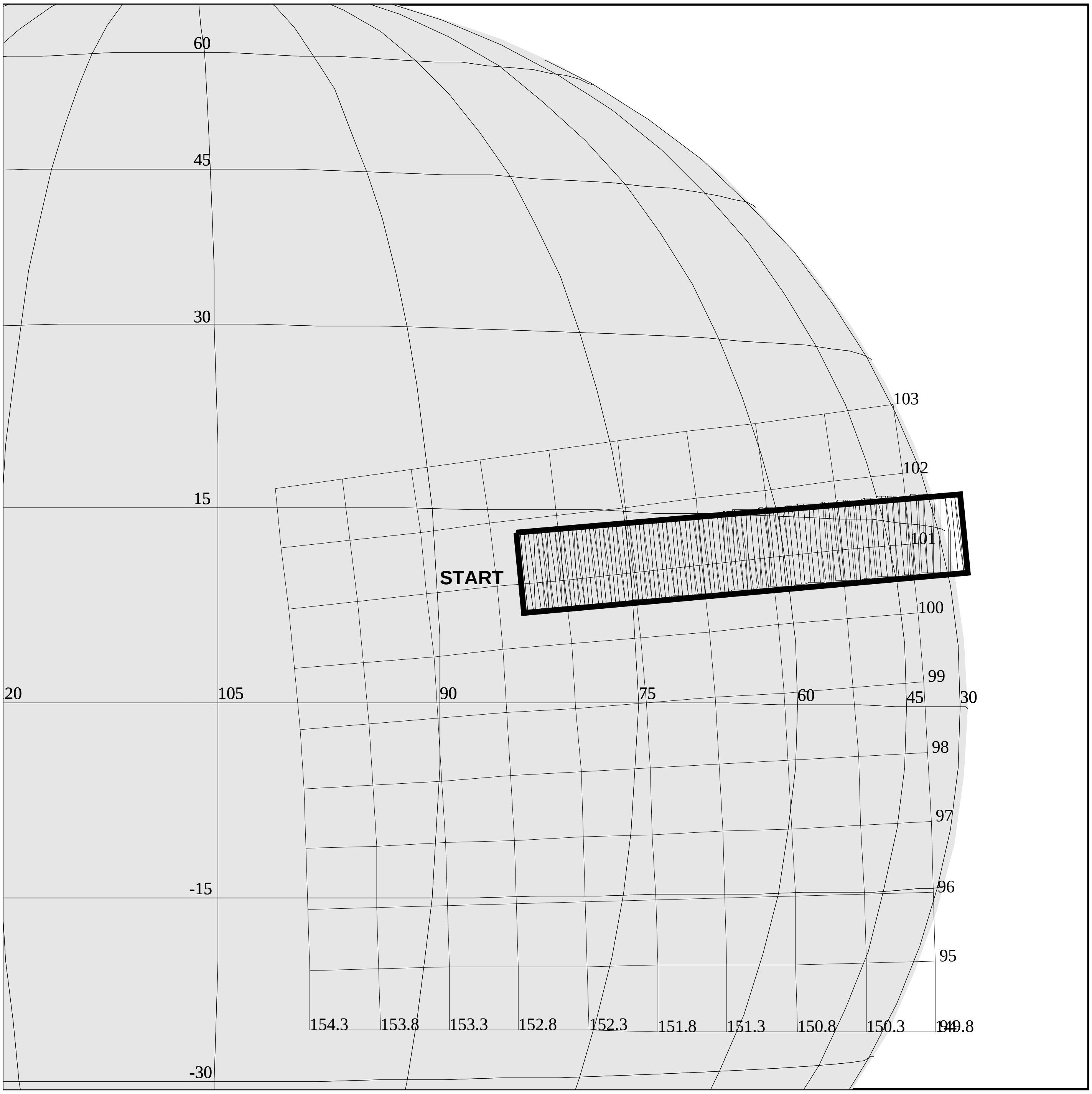
This Test Load loads the NIMS software in a much shorter time
than the nominal time.
This is being tested for use during GEM.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL   - Halt NIMS Processor
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   09/25/97 15:50:00   rev 6/95



165EE:TT= 0 TMC= 1 C= 41.00 XC= 0.00 BS= 0/7903 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=288.12 DEC50=-22.72 cone=152.58 clock=101.18
117EE:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7903
1:#s= 1 Cs= -46.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1274 rD= 2

11JNBRG04205

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG04205

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 -CDS 468:00:0

OBSERVATION:11JNBRG04205

THINNING:NIM 2

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

DESCRIP:BROWN_BARGE_OBS_42_DEG_PHASE

Brown Barge Observation 42 deg phase **ACTIVITY ID: 11JNBRG04205-**
START TIME: 97-310/16:46:23.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG042 SeqNo 05 -

Title	Brown Barge Observation 42 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week	45

Start	JEE-CDS 00000470:00:0	97-310/16:46:23.733	JEE-000/07:55:13.333
End	JEE-CDS 00000461:00:0	97-310/16:55:29.733	JEE-000/07:46:07.333
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label 11JNBRG04205-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	160	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fifth of five OAPels constituting observations of the Brown Barge feature at 42 degrees phase angle. Observation acquired near bright limb.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors acquired. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 9.7 Rj, NIMS IFOV = 345 km. Nominal incidence angle is 26.2 degrees, emission angle is 63.8 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:00 rev 6/95

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NIMS Real-Time Software Reload

ACTIVITY ID: 11NNRELOAD07-
START TIME: 97-310/17:59:11.734

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 07 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 11/06/97 Week 45

Start	EEE-CDS 151:00:0	97-310/17:59:11.734	EEE-000/02:32:40.666
End	EEE-CDS 141:00:0	97-310/18:09:18.400	EEE-000/02:22:34.000
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label 11NNRELOAD07-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

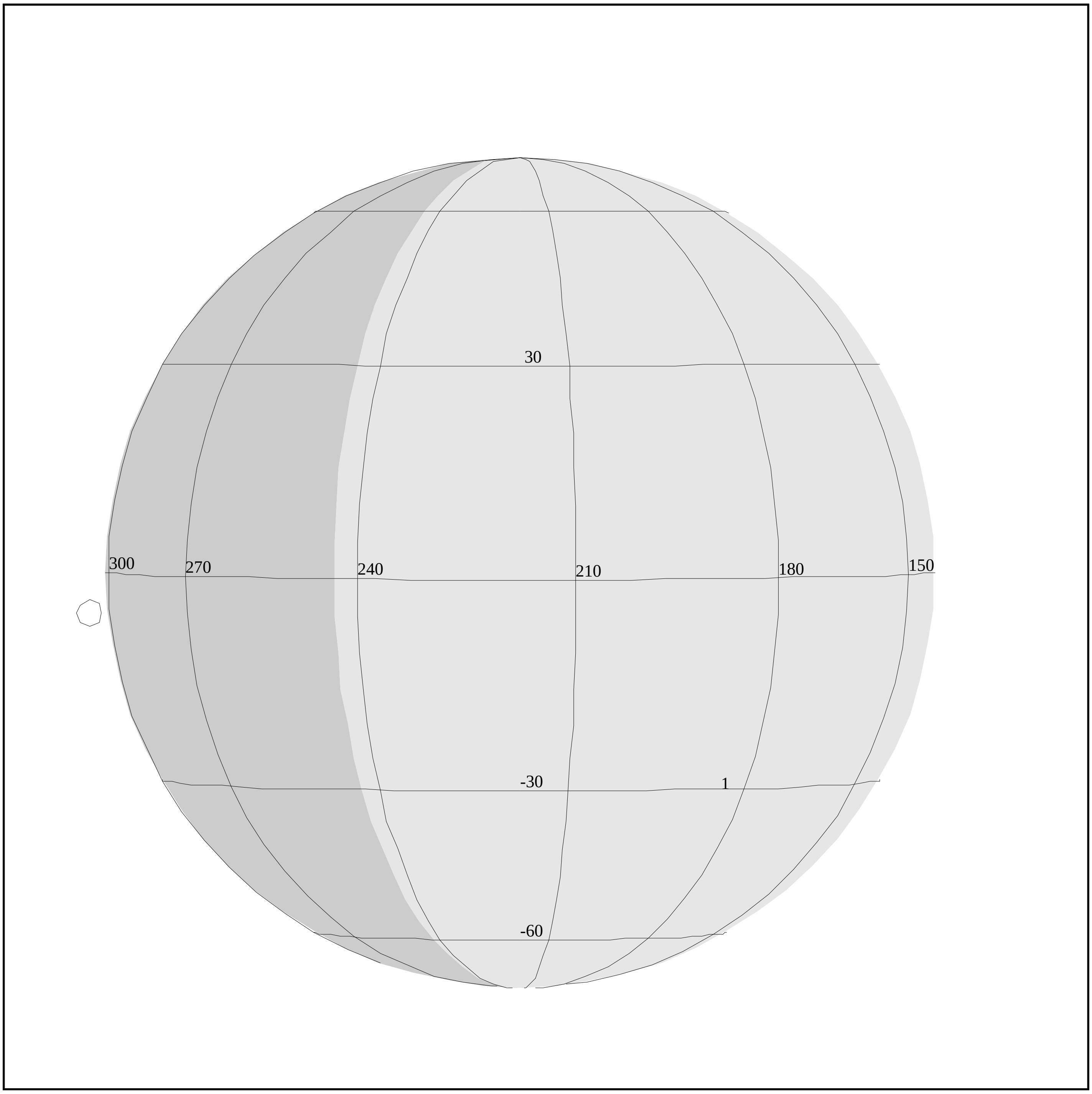
Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor
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.




```
165GD:TT=   0 TMC= 1 C=    4.00 XC=    0.00 BS= 0/9733 TC= 1(30          297        )
   A= 728 pD=  9646 SR=17.450 RA50=261.03 DEC50=-25.07 cone=127.89 clock= 96.64
117GD:#SB= 3 OR= 0.300 RR=12.000 BM=F RC=  1 BS= 0/9733
   1:#s= 20 Cs=  -16.00 XCs=    0.00 Cr=   16.10 XCr=   -1.00 sD=   172 rD=    28
   2:#s=  1 Cs=    0.00 XCs=    0.00 Cr=   18.00 XCr=  -20.00 sD=    16 rD=    32
   3:#s= 15 Cs=   21.00 XCs=    0.00 Cr=  -21.00 XCr=    1.00 sD=   218 rD=    30
```

11NNHEALTH01

DESIGN G3.2 jdods: 9/22/1997 10:44:17

FILE:P.11EPHOTSPT01

TARGET BODY : EUROPA

MINI:m.11EPHOTSPT01

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:EEE 97-310/20:31:52.400 -CDS 156:00:0

OBSERVATION:11EPHOTSPT01

THINNING: :PPR 1

BODY PLOT TIME:TARGET-TIME D= 9646 S= 0.800

DESCRIP:Europa_Hot_Spots_01

NIMS Health Observation		ACTIVITY ID:	11NNHEALTH01-
		START TIME:	97-310/18:09:18.400

Activity ID: Orbit 11 Target N Inst N OAPEL HEALTH SeqNo 01 -

Title	NIMS Health Observation			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/06/97	Week	45

Start	JEE-CDS 00000388:00:0	97-310/18:09:18.400	JEE-000/06:32:18.666
End	JEE-CDS 00000382:00:0	97-310/18:15:22.400	JEE-000/06:26:14.666
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label	11NNHEALTH01-
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

To observe the health and state of the NIMS instrument.

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 of Jupiter for a target.

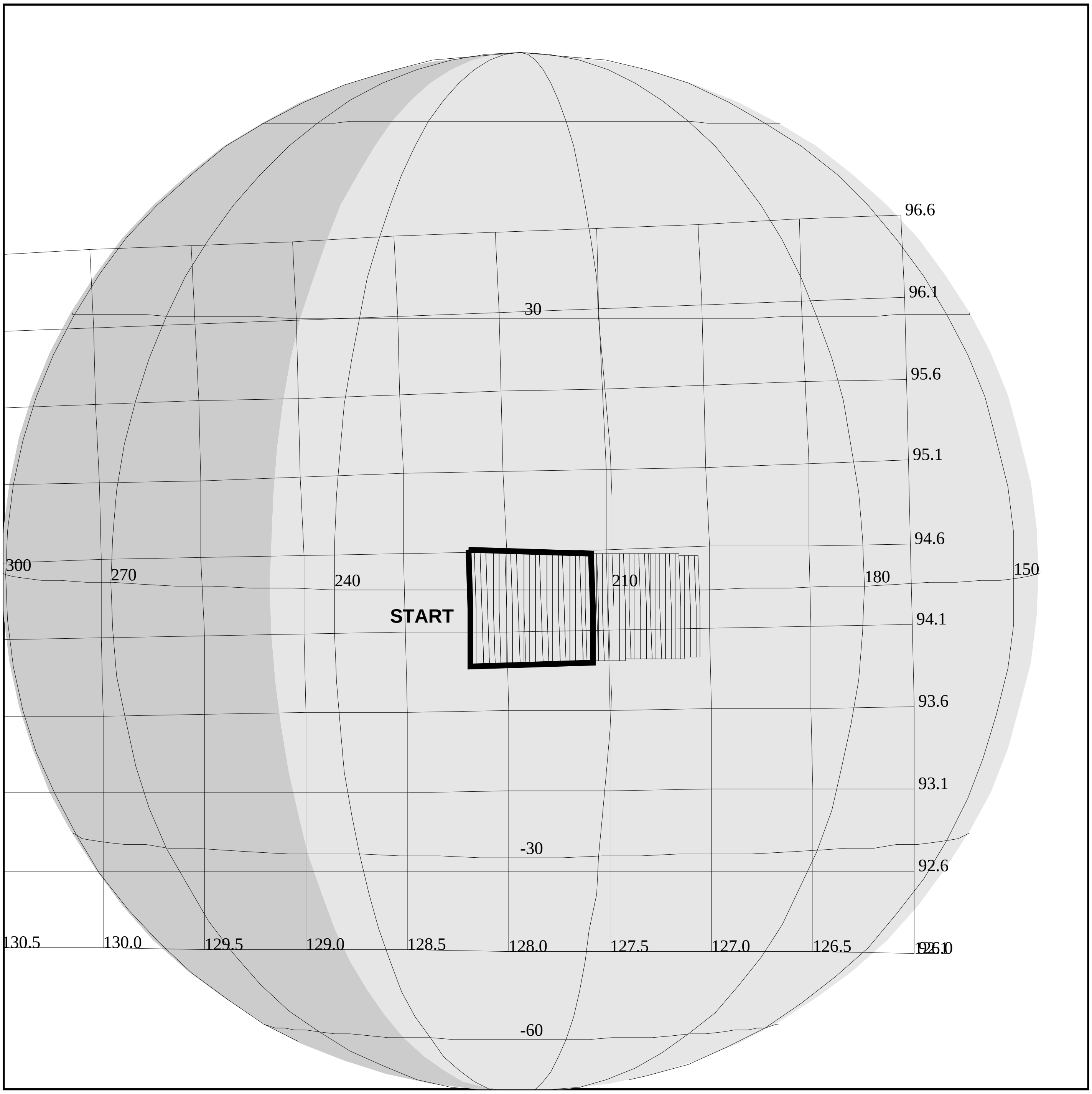
Data Returned

Design Detail

No scan platform commanding.
The scan platform is at the end of the slew of the previous observation: 11EPHOTSPT01

Long Map (LM), Gain 2, Grating Start 0, R/T, E11RCVY3

Galileo Activity Plan Form   09/25/97 15:50:00   rev 6/95



165EJ:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9743 TC= 1(-2 225)
A= 182 pD= 2184 SR=17.450 RA50=261.17 DEC50=-27.00 cone=128.17 clock= 94.21
117EJ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9743
1:#s= 1 Cs= -21.70 XCs= 0.00 Cr= 21.50 XCr= -7.00 sD= 2184 rD= 20

11ENDRKLIT01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11ENDRKLIT01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:EEE 97-310/20:31:52.400 -CDS 101:00:0

OBSERVATION:11ENDRKLIT01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 2184 S= 1.000

DESCRIP:Europa_Pwyll_Mosaic

EUROPA Dark Mosaic	ACTIVITY ID: 11ENDRKLIT01-
	START TIME: 97-310/18:46:43.067

Activity ID: Orbit 11 Target E Inst N OAPEL DRKLIT SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	11/06/97	Week	45

Start	EEE-CDS 00000104:00:0	97-310/18:46:43.067	EEE-000/01:45:09.333
End	EEE-CDS 00000088:00:0	97-310/19:02:53.734	EEE-000/01:28:58.666
Duration	00000016:00:0	000/00:16:10.667	000/00:16:10.667

Top Label 11ENDRKLIT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Target to latitude -2 degrees and West longitude 225 degrees covering the area of the Pwyll impact crater, pull apart bands and bright and dark plains. This observation has been coordinated with SSI.

Data Returned

Design Detail

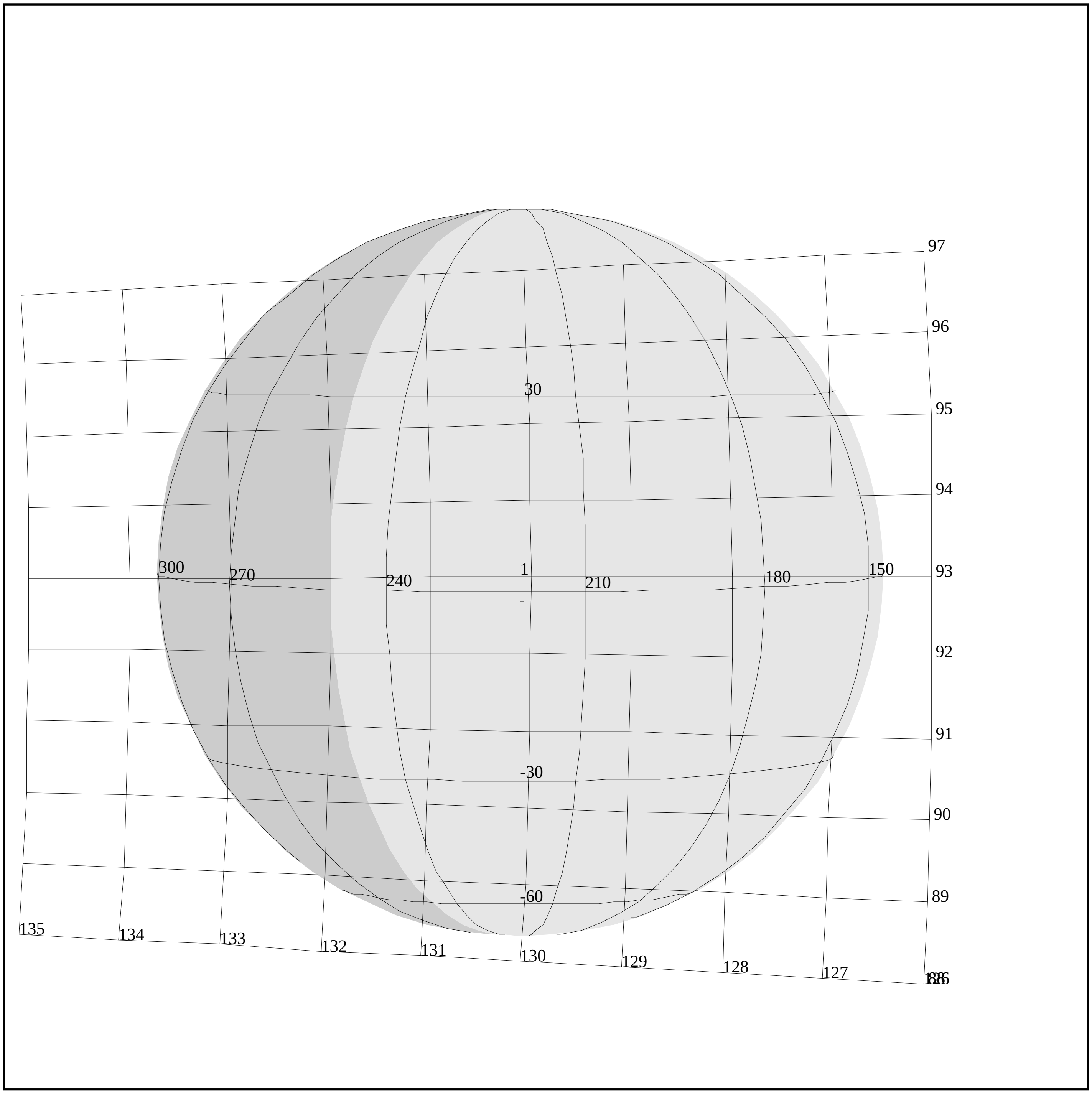
DISTANCE: 29,430	MODE: LONG MAP	TRACKS 0.0188
PHASE:	SLEW RATE: 110 MR/S	LONG SPAN: 210-250
CONE:	% OVERLAP: 50	LAT SPAN: N/S 5 DEG
WAVELENGTHS: 398	NUM STRIPS: 1	COVERAGE: 30%
RESOLUTION: 15 KM/PIX	NIMS F.O.V./STRIP: 25	SUB S/C LONG: 216 DEG
BOOMS: NOT IN F.O.V.	DMS MODE: 7.68	SUB S/C LAT: +1.04 DEG
ASD: 0.897 DEG	AREA COV. IN PIX: 968	GAIN: 3
INCID ANGLE: 67-43 DEG	EMM ANGLE: 14-69 DEG	TLM:LPU

Observation has one RIM for targetting; CSMOS is 12 RIMS.

Only first half of swath returned.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11ELM243C, E11CLM228C

Galileo Activity Plan Form 09/25/97 15:50:00 rev 6/95



165EI:TT=   0 TMC= 1 C=   0.00 XC=   0.00 BS= 0/5203 TC= 3
A= 728 pD=   182 SR=17.450 RA50=263.30 DEC50=-27.98 cone=130.10 clock= 93.07
117EI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5203
1:#s= 1 Cs=   -1.75 XCs=   0.00 Cr=   12.00 XCr=   -4.00 sD=   182 rD=   20

11ENEURORT01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11ENEURORT01

TARGET BODY :   EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:EEE 97-310/20:31:52.400   -CDS 71:00:0

OBSERVATION:11ENEURORT01

THINNING:NIM   7

BODY PLOT TIME:TARGET-TIME D= 182 S= 0.700

DESCRIP:NIMS_Europa_Real_Time_Obs

NIMS Europa Real-Time Observation ACTIVITY ID: 11ENEURORT01-
START TIME: 97-310/19:15:01.734

Activity ID: Orbit 11 Target E Inst N OAPEL EURORT SeqNo 01 -

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

Time System CDS Load ID Calendar Date 11/06/97 Week 45

Start	EEE-CDS 00000076:00:0	97-310/19:15:01.734	EEE-000/01:16:50.666
End	EEE-CDS 00000069:00:0	97-310/19:22:06.400	EEE-000/01:09:46.000
Duration	00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label 11ENEURORT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To observe Europa in real-time.

Data Returned

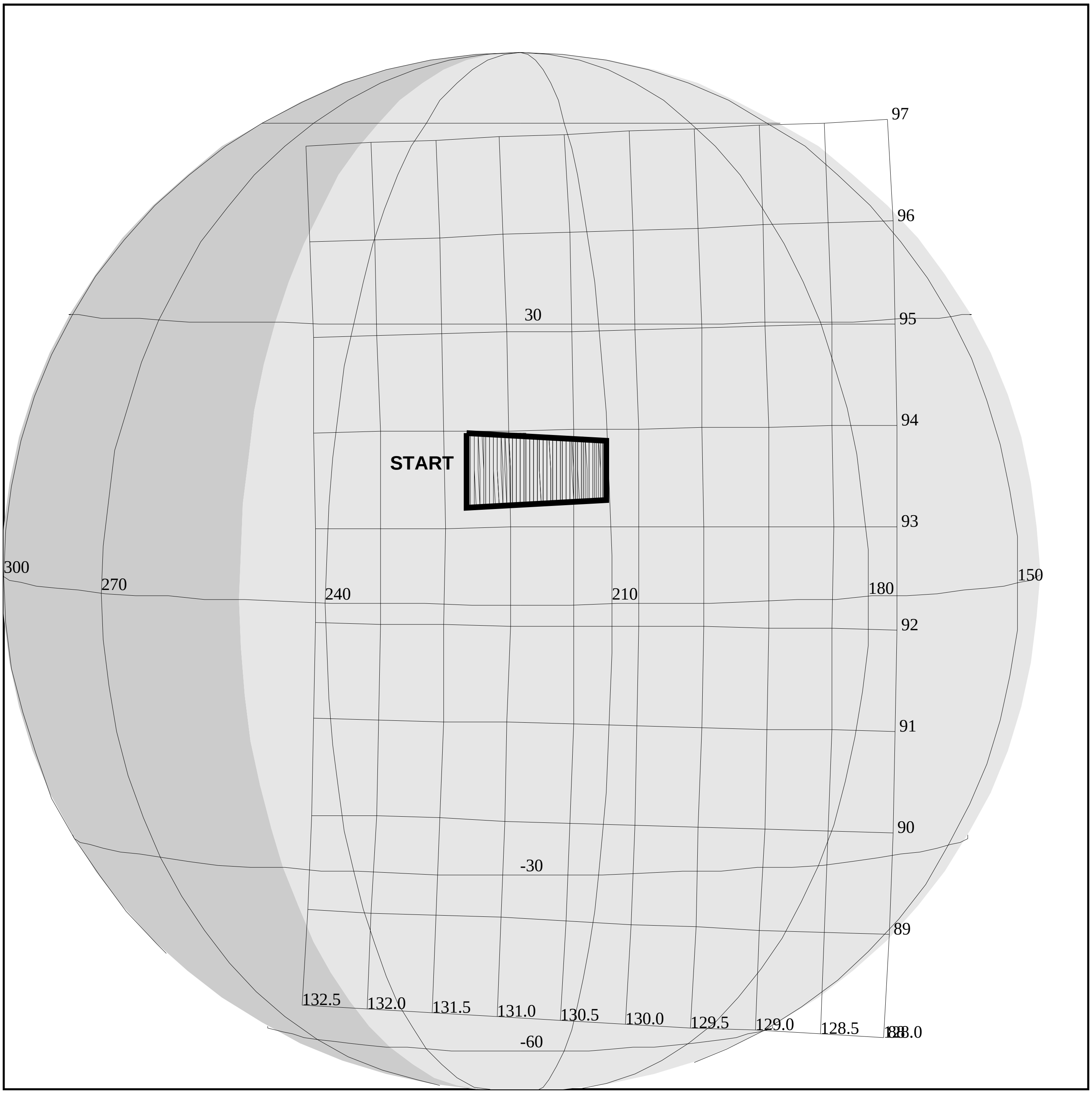
Design Detail

TLM = R/T
Mode = LM
Gain = 3
Resolution = 11 km
Latitude = 2 degrees
West longitude = 219 degrees

S/C Range = 22815 km
No. of strips = 1
Percentage overlap = 50%
Cone angle = 130 deg.

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

Long Map (LM), Gain 4, Grating Start 0, R/T, E11ELM442/MB



165EK:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/6477 TC= 1(14 225)
A= 182 pD= 2184 SR=17.450 RA50=264.69 DEC50=-27.61 cone=131.32 clock= 93.60
117EK:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6477
1:#s= 1 Cs= -21.70 XCs= 0.00 Cr= 21.50 XCr= -7.00 sD= 2184 rD= 20

11ENCYCLOD01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11ENCYCLOD01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:EEE 97-310/20:31:52.400 -CDS 64:00:0

OBSERVATION:11ENCYCLOD01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 2184 S= 1.000

DESCRIP:Europa_Cyclodial_Observation

EUROPA CYCLODIAL OBSERVATION **ACTIVITY ID: 11ENCYCLOD01-**
START TIME: 97-310/19:25:08.400

Activity ID: Orbit 11 Target E Inst N OAPEL CYCLOD SeqNo 01 -

Title	**EUROPA CYCLODIAL OBSERVATION**			**Instrument**	**NIMS**
Requestor	**NIMS-SWG/A. OCAMPO**	**Team**	**NIMS**	**Working Group**	**SWG**

Time System CDS Load ID Calendar Date 11/06/97 Week 45

Start	**EEE-CDS 00000066:00:0**	**97-310/19:25:08.400**	**EEE-000/01:06:44.000**
End	**EEE-CDS 00000048:00:0**	**97-310/19:43:20.400**	**EEE-000/00:48:32.000**
Duration	**00000018:00:0**	**000/00:18:12.000**	**000/00:18:12.000**

Top Label 11ENCYCLOD01-
Bottom Label

Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**150**	**Report Options**	**BOTH**	**Scan Platform**	**Yes**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**Yes**

Observation Objective

Targetted to latitude 14 degrees and West longitude 225 degrees to observe cyclodial and triple bands. This observation has been coordinated with SSI.

Data Returned

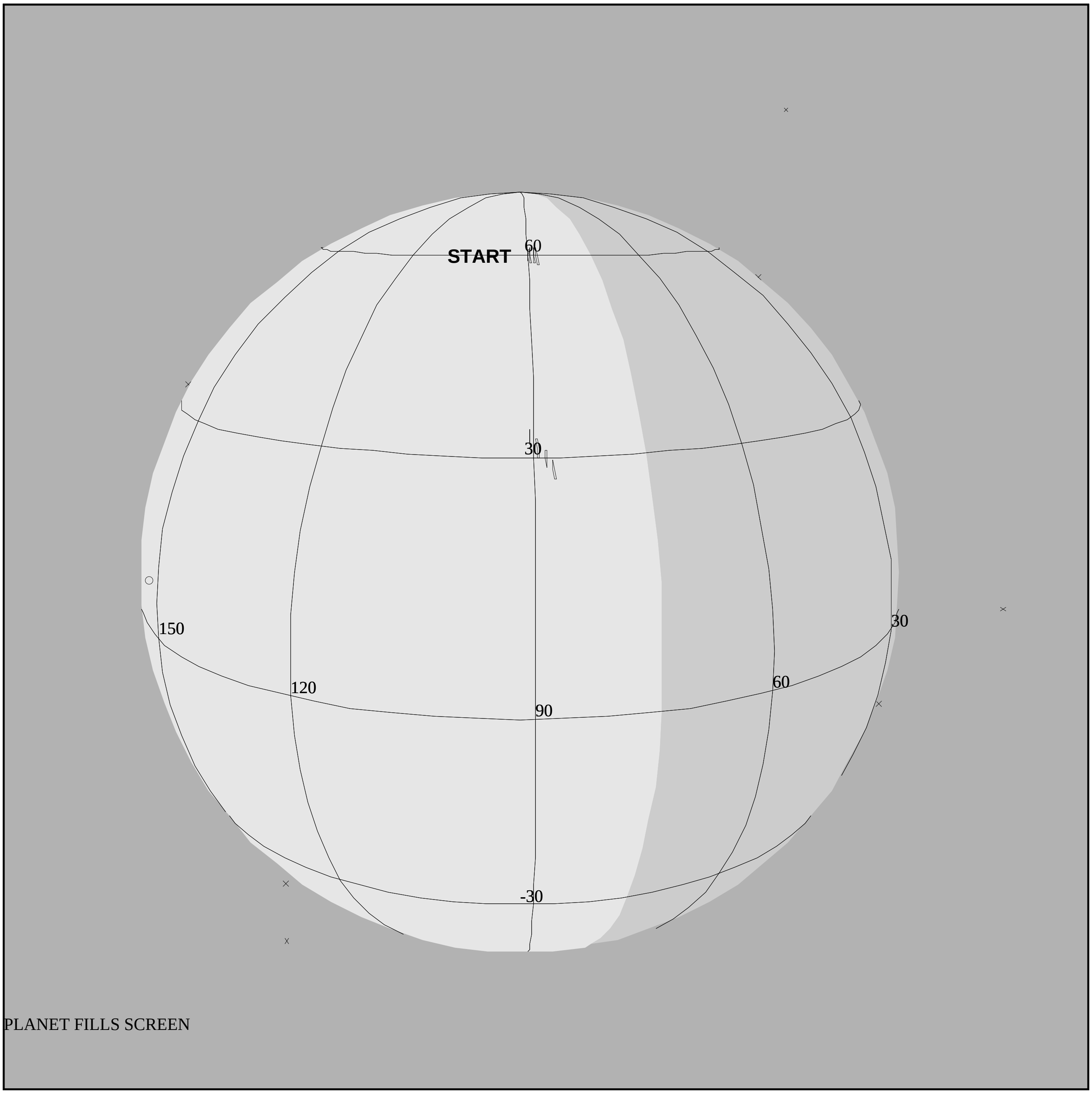
Design Detail

DISTANCE: 16,800 KM	**MODE: LONG MAP**	**TRACKS:0.047**
PHASE: 67.3 DEG	**SLEW RATE: 110 MR/S**	**LONG SPAN: 211 - 224 DEG**
CONE: 131 DEG	**% OVERLAP: 50**	**LAT SPAN: 14 -13 DEG**
NO. WAVELENGTHS: 204	**NUM STRIPS: 1**	**COVERAGE: 0.01%**
RESOLUTION: 8.4 KM/PIX	**NIMS F.O.V./STRIP: 50**	**SUB S/C LONG: 232 DEG**
BOOMS: NOT IN F.O.V.	**DMS MODE: 7.68**	**SUB S/C N LAT: +6.64 DEG**
ASD: 4.33 DEG	**AREA COV IN PIX: 1208**	**TLM:LPU**
INCID ANGLE:	**EMM ANGLE:**	

GAIN: 3 Observation has one RIM for targetting; CSMOS is 12 RIMS.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11ELM243C, E11CLM228C

Galileo Activity Plan Form 09/25/97 15:50:00 rev 6/95



165CM:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/0127 TC= 1(60 90)
A= 182 pD= 2730 SR=17.450 RA50= 35.31 DEC50= 13.43 cone= 96.58 clock=277.41
117CA:#SB= 3 OR= 0.030 RR=17.000 BM=F RC= 1 BS= 0/0127
1:#s= 1 Cs= 5.37 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 546 rD= 16
2:#s= 1 Cs= 6.60 XCs= 0.00 Cr= -20.00 XCr= 110.00 sD= 668 rD= 60
3:#s= 1 Cs= 6.70 XCs= 0.00 Cr= -20.00 XCr= 100.00 sD= 678 rD= 50

11ENLEADRT01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11EULEAD__01

TARGET BODY : EUROPA

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:EEE 97-310/20:31:52.400 +CDS 11:00:0

OBSERVATION:11EULEAD__01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 2730 S= 0.700

DESCRIP:UVS_Leading_Hemisphere

NIMS Europa Leading Hemisphere Obs   ACTIVITY ID: 11ENLEADRT01+
START TIME: 97-310/20:36:55.733

Activity ID: Orbit 11 Target E Inst N OAPEL LEADRT SeqNo 01 +

Title	NIMS Europa Leading Hemisphere Obs			Instrument	NIMS
Requestor	NIMS-SWG/A. OCAMPO	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 11/06/97 Week 45

Start	EEE+CDS 00000005:00:0	97-310/20:36:55.733	EEE+000/00:05:03.333
End	EEE+CDS 00000024:00:0	97-310/20:56:08.400	EEE+000/00:24:16.000
Duration	00000019:00:0	000/00:19:12.667	000/00:19:12.667

Top Label 11ENLEADRT01+
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	130	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

NIMS Europa ride-along observation with UVS to observe 90 degrees West longitude that has never been observed before at high resolution. This observation will serve for preparation to I25.

Data Returned

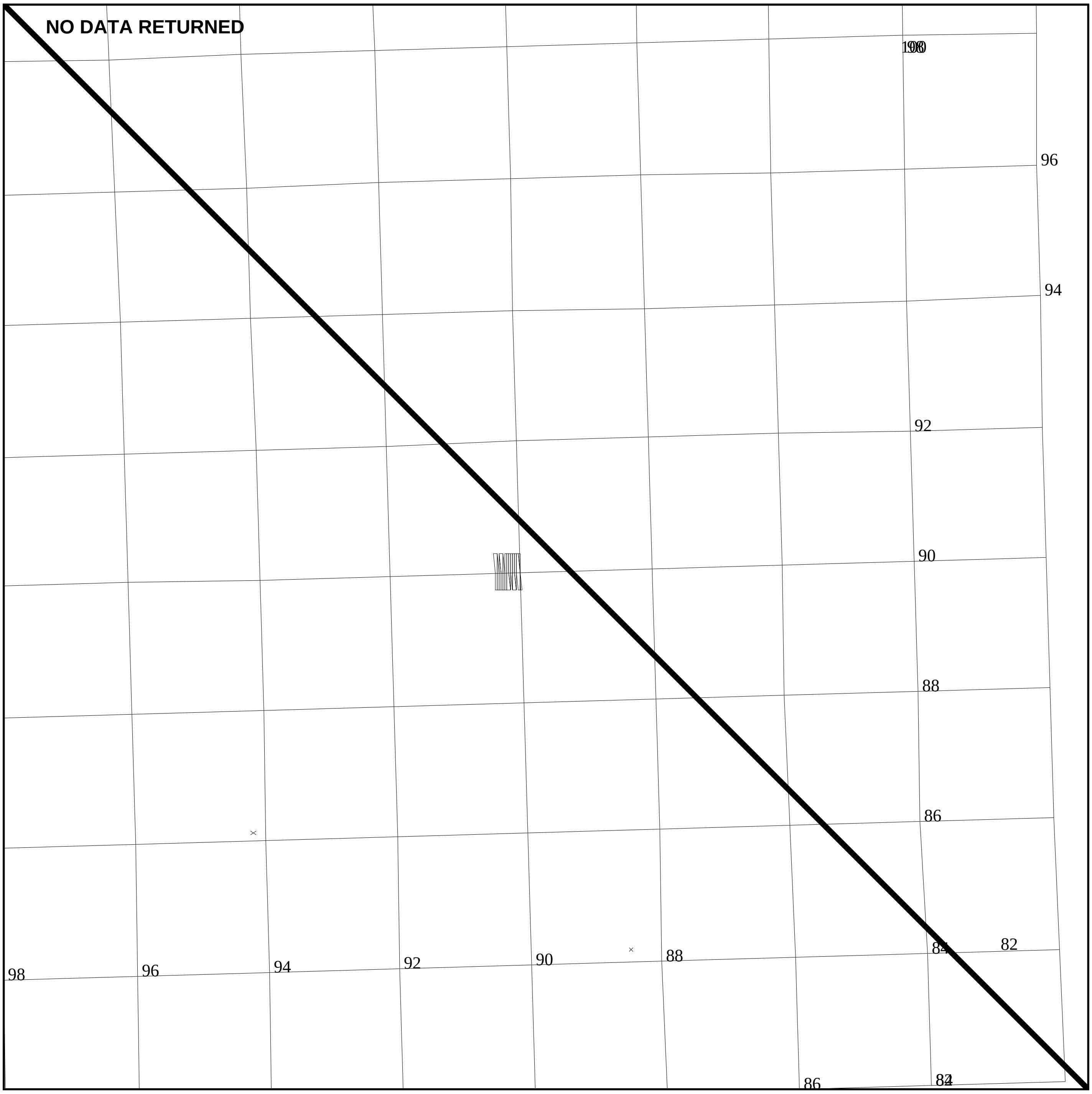
Design Detail

Instrument mode = LM Gain State = 3, 4

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

Long Map (LM), Gain 4, Grating Start 0, R/T, E11ELM442/MB

Galileo Activity Plan Form   09/25/97 15:50:00   rev 6/95



165EG:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/9975 TC= 2(90 90)
A= 728 pD= 0 SR=17.450 RA50=218.97 DEC50=-22.70 cone= 90.00 clock= 90.00
117EG:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9975
1:#s= 1 Cs= 6.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

11HNDARK__02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11HNDARK__02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 -CDS 72:00:0

OBSERVATION:11HNDARK__02

THINNING:NIM 2

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

DESCRIP:NIMS_Dark_Observation

NIMS Dark Observation	ACTIVITY ID: 11HNDARK__02- START TIME: 97-310/23:23:45.733

Activity ID: Orbit 11 Target H Inst N OAPEL DARK__ SeqNo 02 -

Title	NIMS Dark Observation			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/06/97 Week 45

Start	JEE-CDS 00000077:00:0	97-310/23:23:45.733	JEE-000/01:17:51.333
End	JEE-CDS 00000071:00:0	97-310/23:29:49.733	JEE-000/01:11:47.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label 11HNDARK__02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS dark observation

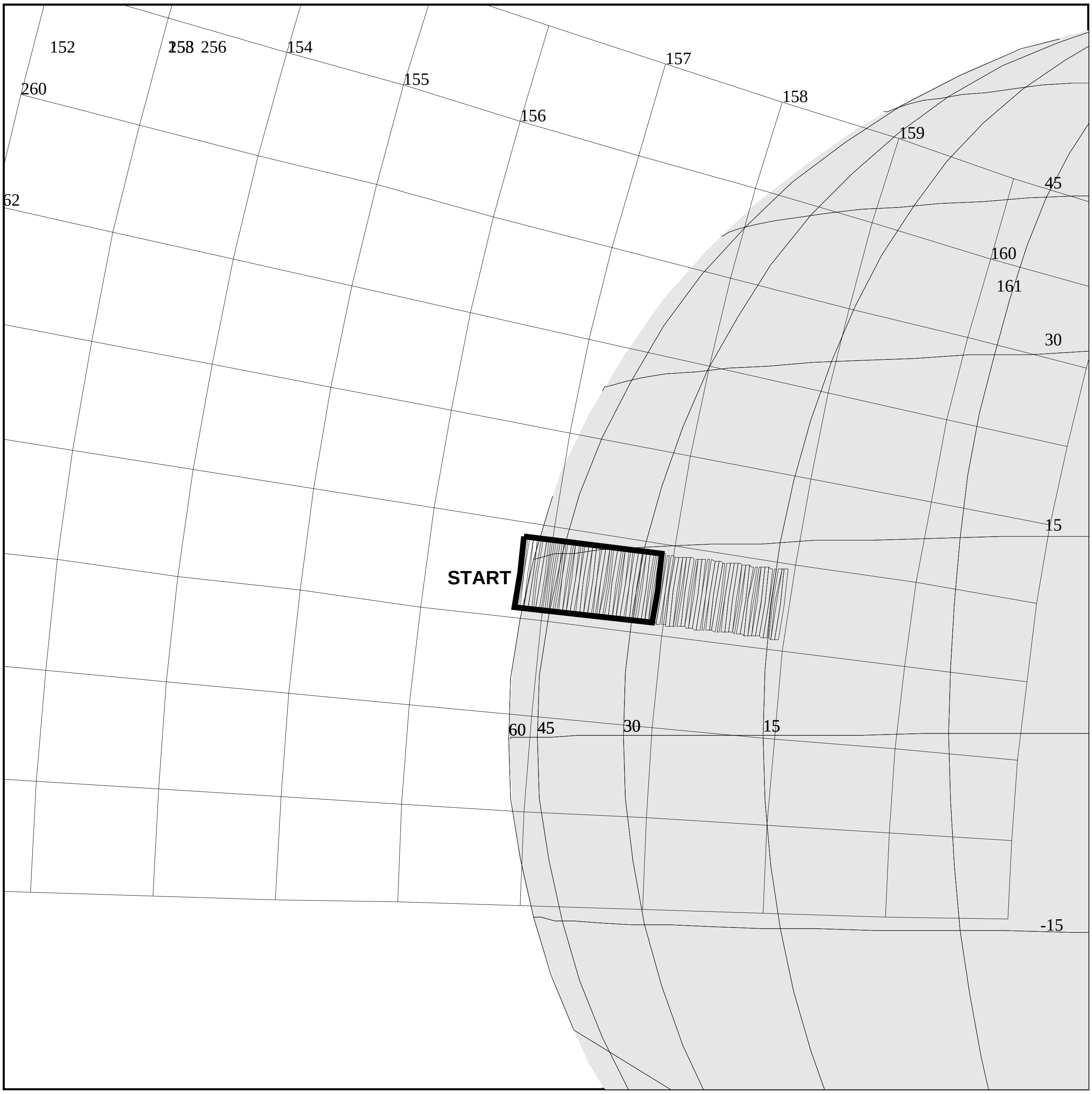
Obtain 1 Rim of dark sky data.

No Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 Rim.

Long Map (LM), Gain 2, Grating Start 0, LPU, E11DRK252, E11DRK32



165EO:TT= 0 TMC= 1 C= -2.30 XC= 0.00 BS= 0/8711 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50=337.99 DEC50= -7.45 cone=156.78 clock=267.04
117EO:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8711
1:#s= 1 Cs= 33.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 910 rD= 2

11JNBRG02001

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG02001

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 -CDS 24:00:0

OBSERVATION:11JNBRG02001

THINNING:NIM 2

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

DESCRIP:BROWN_BARGE_OBS_20_DEG_PHASE

Brown Barge Obs 20 deg phase	ACTIVITY ID: 11JNBRG02001- START TIME: 97-311/00:12:17.733

Activity ID: Orbit 11 Target J Inst N OAPEL BRG020 SeqNo 01 -

Title	Brown Barge Obs 20 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45

Start	JEE-CDS 00000029:00:0	97-311/00:12:17.733	JEE-000/00:29:19.333
End	JEE-CDS 00000019:00:0	97-311/00:22:24.400	JEE-000/00:19:12.666
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	11JNBRG02001-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

First of six OAPels constituting the Brown Barge feature at 20 degrees phase. Brown Barge imaged near bright limb.

Data Returned

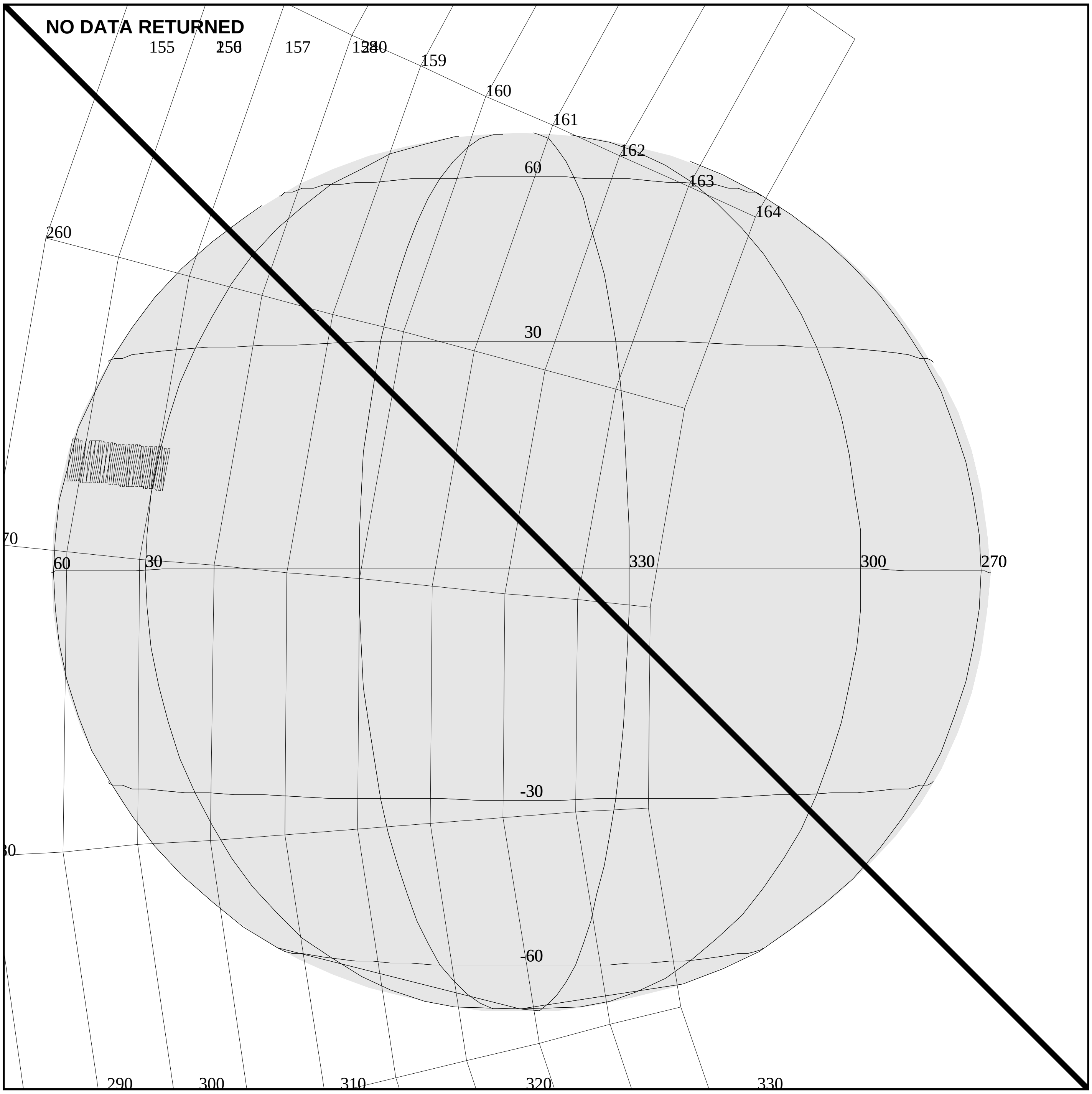
Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 8.7 Rj, NIMS IFOV = 300km. Nominal incidence angle is 69 degrees, emission angle 83 degrees.

Only first half of swath recorded and returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:01 rev 6/95



165KM:TT= 0 TMC= 1 C= -10.00 XC= 0.00 BS= 0/0531 TC= 1(14 40)
A= 364 pD= 0 SR=17.450 RA50=338.73 DEC50= -6.95 cone=155.89 clock=266.94
117KM:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0531
1:#s= 1 Cs= 14.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1456 rD= 2

11JNRTBRG_03

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNRTBRG_03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 -CDS 14:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

OBSERVATION:11JNRTBRG_03

DESCRIP:NIMS_Real_Time_Brown_Barge

NIMS Real-Time Brown Barge Obs	ACTIVITY ID: 11JNRTBRG_03- START TIME: 97-311/00:23:25.066

Activity ID: Orbit 11 Target J Inst N OAPEL RTBRG_ SeqNo 03 -

Title	NIMS Real-Time Brown Barge Obs		Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/07/97 Week 45

Start	JEE-CDS 00000018:00:0	97-311/00:23:25.066	JEE-000/00:18:12.000
End	JEE-CDS 00000008:00:0	97-311/00:33:31.733	JEE-000/00:08:05.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 11JNRTBRG_03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To observe the Brown Barge feature in real-time.

No Data Returned - Data lost in transmission.

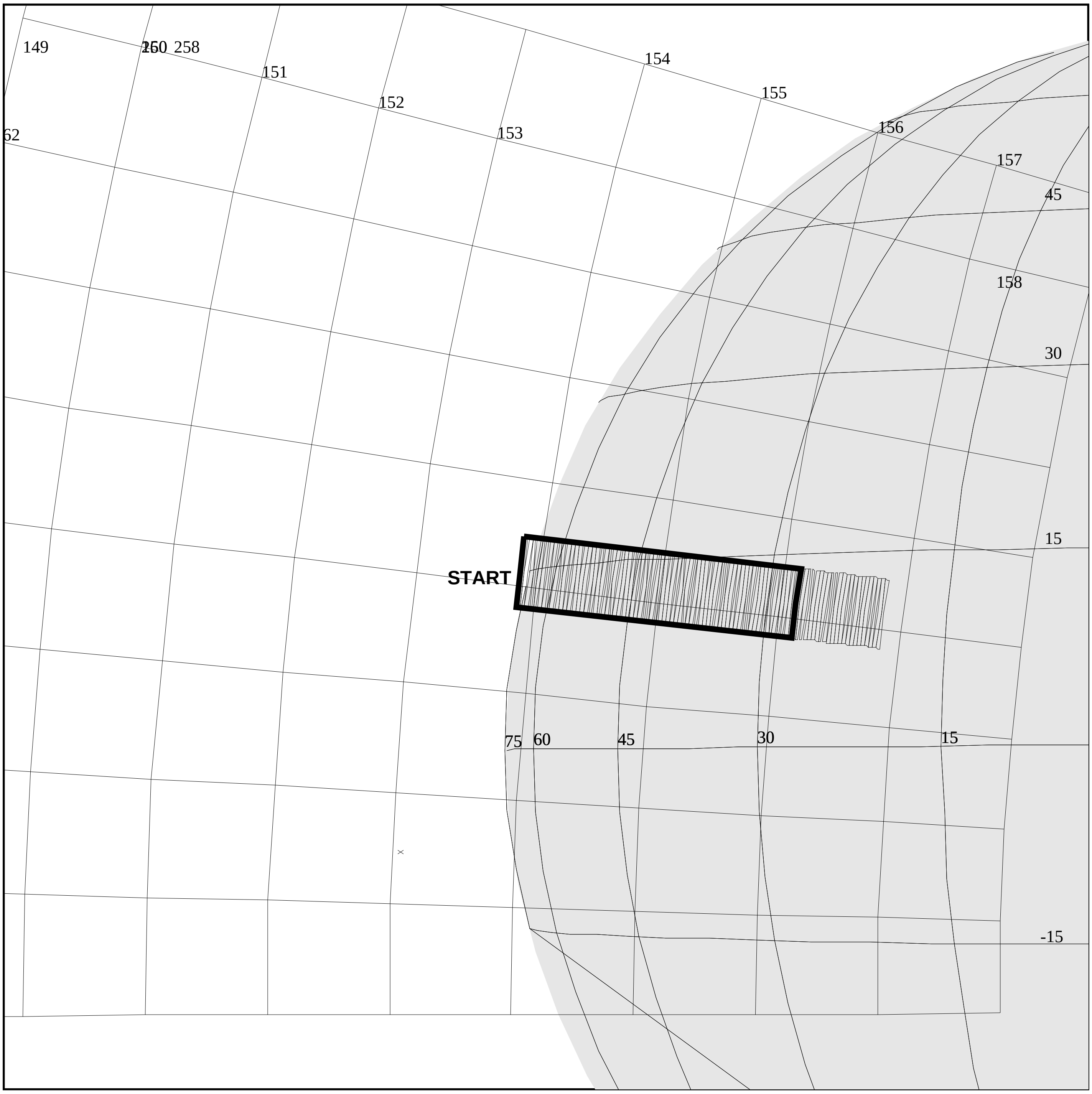
Design Detail

Long map, Nyquist sampling. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude.
Range is 8.9 Rj, incidence angle is 73.5 degrees, emission angle is 85.6 degrees. Assume one RIM of targetting.

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

Long Map (LM), Gain 2, Grating Start 0, R/T, E11JLM442/MB

Galileo Activity Plan Form 09/25/97 15:50:01 rev 6/95



165EP:TT= 0 TMC= 1 C= -10.00 XC= 0.00 BS= 0/3989 TC= 1(13.5 52)
A= 182 pD= 0 SR=17.450 RA50=340.66 DEC50= -6.16 cone=153.85 clock=267.75
117EP:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3989
1:#s= 1 Cs= 46.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1274 rD= 2

11JNBRG02002

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG02002

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 +CDS 05:00:0

OBSERVATION:11JNBRG02002

THINNING:NIM 2

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

DESCRIP:BROWN_BARGE_OBS_20_DEG_PHASE

Brown Barge Obs 20 deg phase		ACTIVITY ID:	11JNBRG02002-
		START TIME:	97-311/00:44:39.066

Activity ID: Orbit 11 Target J Inst N OAPEL BRG020 SeqNo 02 -

Title	Brown Barge Obs 20 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97	Week	45

Start	JEE+CDS 00000003:00:0	97-311/00:44:39.066	JEE+000/00:03:02.000
End	JEE+CDS 00000012:00:0	97-311/00:53:45.066	JEE+000/00:12:08.000
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	11JNBRG02002-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of six OAPels constituting observations of the Brown Barge feature at 20 degrees phase. Observations of Brown Barge acquired near bright limb.

Data Returned

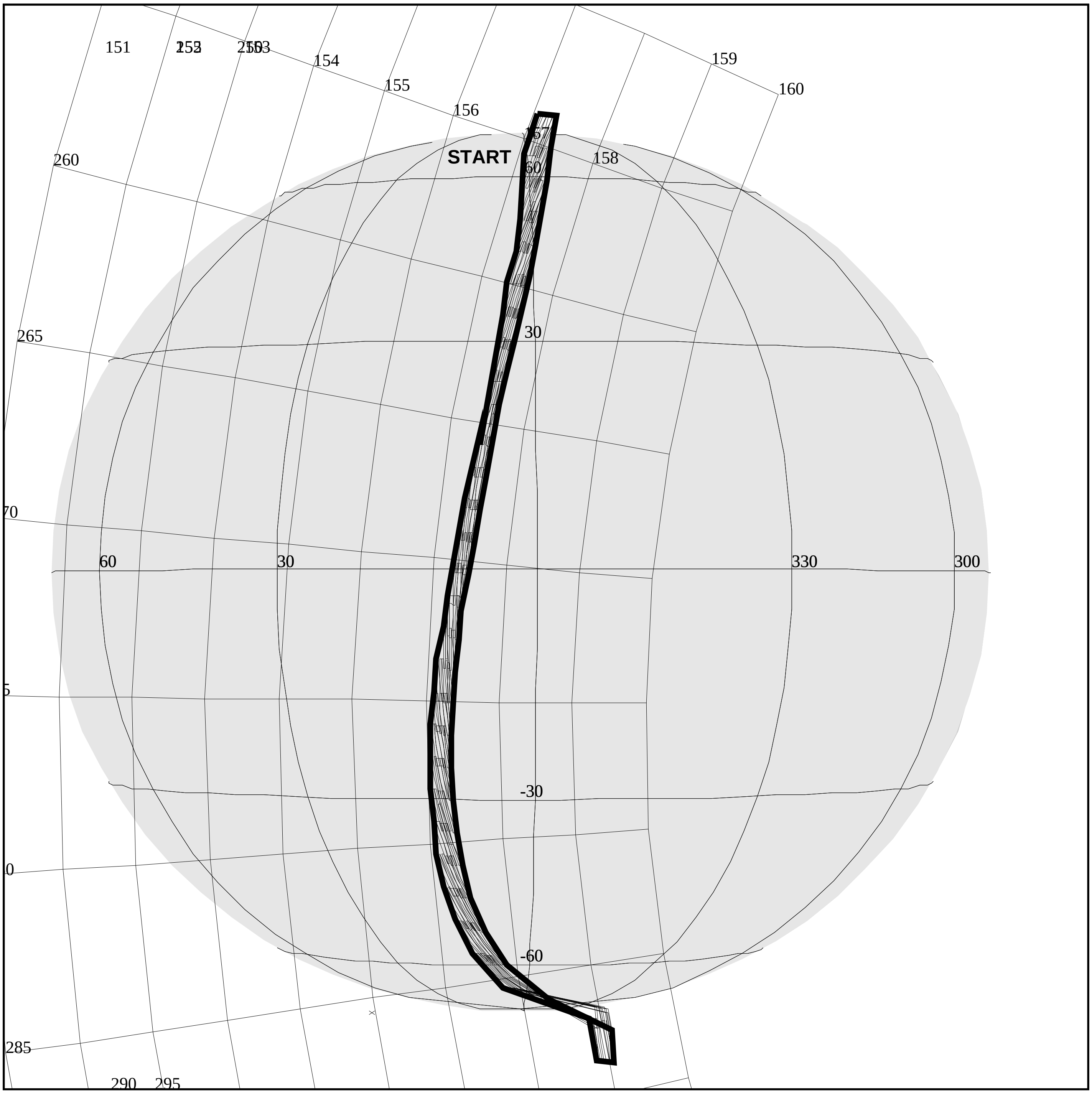
Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 8.4 Rj, NIMS IFOV = 305km. Nominal incidence angle is 51.4 degrees, emission angle is 66.6 degrees.

3/4 of swath returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:01 rev 6/95



165EQ:TT= 0 TMC= 1 C= -20.00 XC= -100.00 BS= 0/7629 TC= 3
A= 728 pD= 0 SR=17.450 RA50=334.84 DEC50= -3.81 cone=157.06 clock=254.77
117EQ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7629
1:#s= 29 Cs= 2.00 XCs= 0.00 Cr= -1.80 XCr= 8.00 sD= 272 rD= 32

11JNTHRMNS01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNTHRMNS01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 +CDS 25:00:0

OBSERVATION:11JNTHRMNS01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

DESCRIP:JUPITER_THERMAL_NORTH_SOUTH_STRI

Jupiter Thermal North-South Stripe   ACTIVITY ID: 11JNTHRMNS01-
START TIME: 97-311/01:01:50.399

Activity ID: Orbit 11 Target J Inst N OAPEL THRMNS SeqNo 01 -

Title	Jupiter Thermal North-South Stripe			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 11/07/97	Week 45

Start	JEE+CDS 00000020:00:0	97-311/01:01:50.399	JEE+000/00:20:13.333
End	JEE+CDS 00000075:00:0	97-311/01:57:27.066	JEE+000/01:15:50.000
Duration	00000055:00:0	000/00:55:36.667	000/00:55:36.667

Top Label   11JNTHRMNS01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	185	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

North-South stripe covering thermal wavelengths from 4.2786 to 5.2198 microns. Determine phosphine and other trace species abundances over latitude. Eighty wavelengths acquired. High-spatial resolution accomplished by begining observation at perijove.

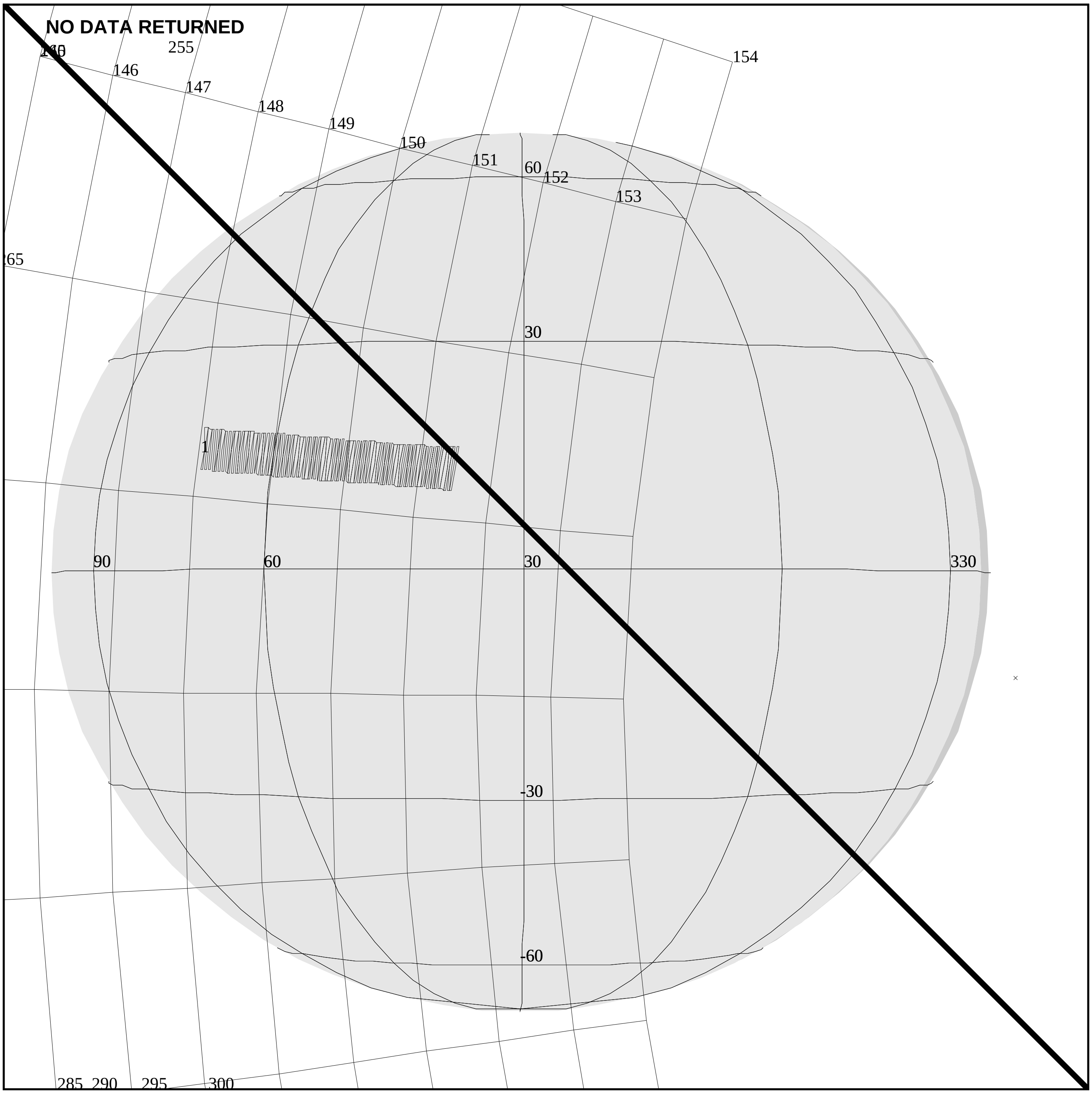
Data Returned

Design Detail

Follows description in OPG, page A-20, North-South stripe follows classic Z-pattern, each stripe being approximately two degrees wide in longiutde. NIMS long map spatially-contiguous spectra. Data acquired in 1/5 NIMS record mode. Uses J5M80A playback table. Observation occurs 8.0 Rj. About 31 tiers cover the planet. Ten samples in each tier take 10*8.666 + 13.3 which is approximately 100 seconds to accumulate, including 13.3 seconds for repositioning.
NIMS scan takes 51 minutes, 27 seconds.
Data accumulated: (3086.7 seconds) [(80)(200)/8.6666 + 168] = 6.217 MB,
2:1 compression yields 3.109 MBTG.
Tape used: 3087*0.00003363 = 0.1038 tracks.
Four RIMS reserved for targetting, plus 70 seconds extra time.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11J5M253A, E11J5M80A

Galileo Activity Plan Form   09/25/97 15:50:01   rev 6/95



165ER:TT= 0 TMC= 1 C= -31.00 XC= 0.00 BS= 0/7821 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50=345.86 DEC50= -3.58 cone=148.08 clock=268.76
117ER:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/7821
1:#s= 1 Cs= 43.60 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 4368 rD= 40

11JNBRGSUB01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRGSUB01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 +CDS 81:00:0

OBSERVATION:11JNBRGSUB01

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

DESCRIP:BROWN_BARGE_OBS

Brown Barge Obs		ACTIVITY ID:	11JNBRGSUB01-
		START TIME:	97-311/01:58:27.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRGSUB SeqNo 01 -

Title	Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/07/97 Week 45

Start	JEE+CDS 00000076:00:0	97-311/01:58:27.732	JEE+000/01:16:50.666
End	JEE+CDS 00000105:00:0	97-311/02:27:47.066	JEE+000/01:46:10.000
Duration	00000029:00:0	000/00:29:19.334	000/00:29:19.334

Top Label 11JNBRGSUB01-
Bottom Label

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

Observation Objective

Third of six OAPels constituting observations of the Brown Barge feature at 20 degrees phase. Sub-spectra observation acquired about 20 degrees from central meridian.

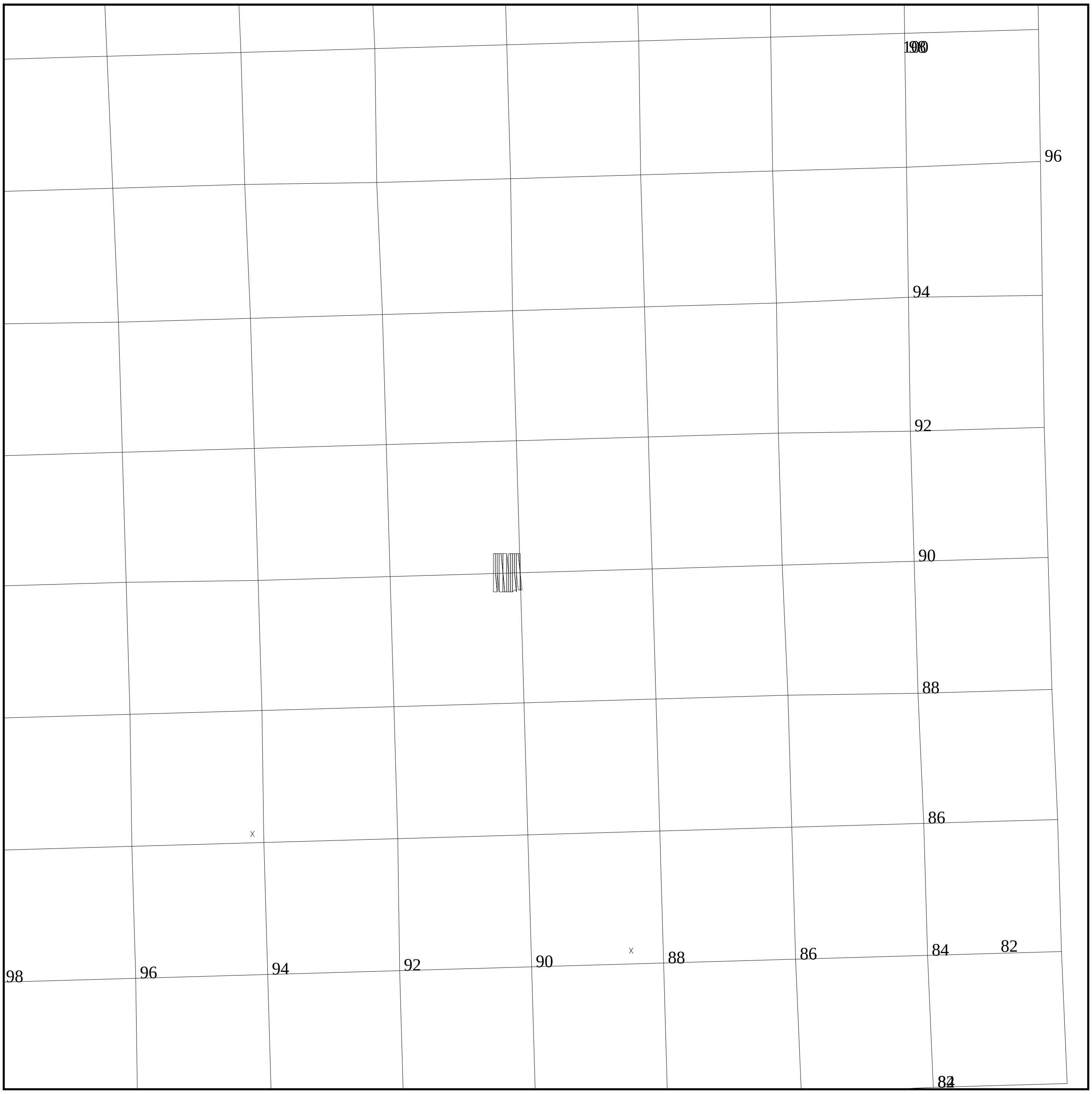
No Data Returned

Design Detail

Long map, Nyquist sampling, 80 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 8.1 Rj, NIMS IFOV = 290km. Nominal incidence angle is 13.8 degrees, emission angle is 23.8 degrees.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11JSB253A, E11JSB80A

Galileo Activity Plan Form 09/25/97 15:50:01 rev 6/95



165EX:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3099 TC= 2(90 90)
A= 728 pD= 0 SR=17.450 RA50=218.97 DEC50=-22.70 cone= 90.00 clock= 90.00
117EX:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3099
1:#s= 1 Cs= 6.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

11HNDARK__03

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11HNDARK__03

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 +CDS 110:00:0

OBSERVATION:11HNDARK__03

THINNING:NIM 2

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

DESCRIP:NIMS_Dark_Observation

NIMS Dark Observation		ACTIVITY ID:	11HNDARK__03-
		START TIME:	97-311/02:27:47.066

Activity ID: Orbit 11 Target H Inst N OAPEL DARK__ SeqNo 03 -

Title	NIMS Dark Observation			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97	Week	45

Start	JEE+CDS 00000105:00:0	97-311/02:27:47.066	JEE+000/01:46:10.000
End	JEE+CDS 00000111:00:0	97-311/02:33:51.066	JEE+000/01:52:14.000
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label   11HNDARK__03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS dark observation.

Obtain 1 Rim of dark sky data.

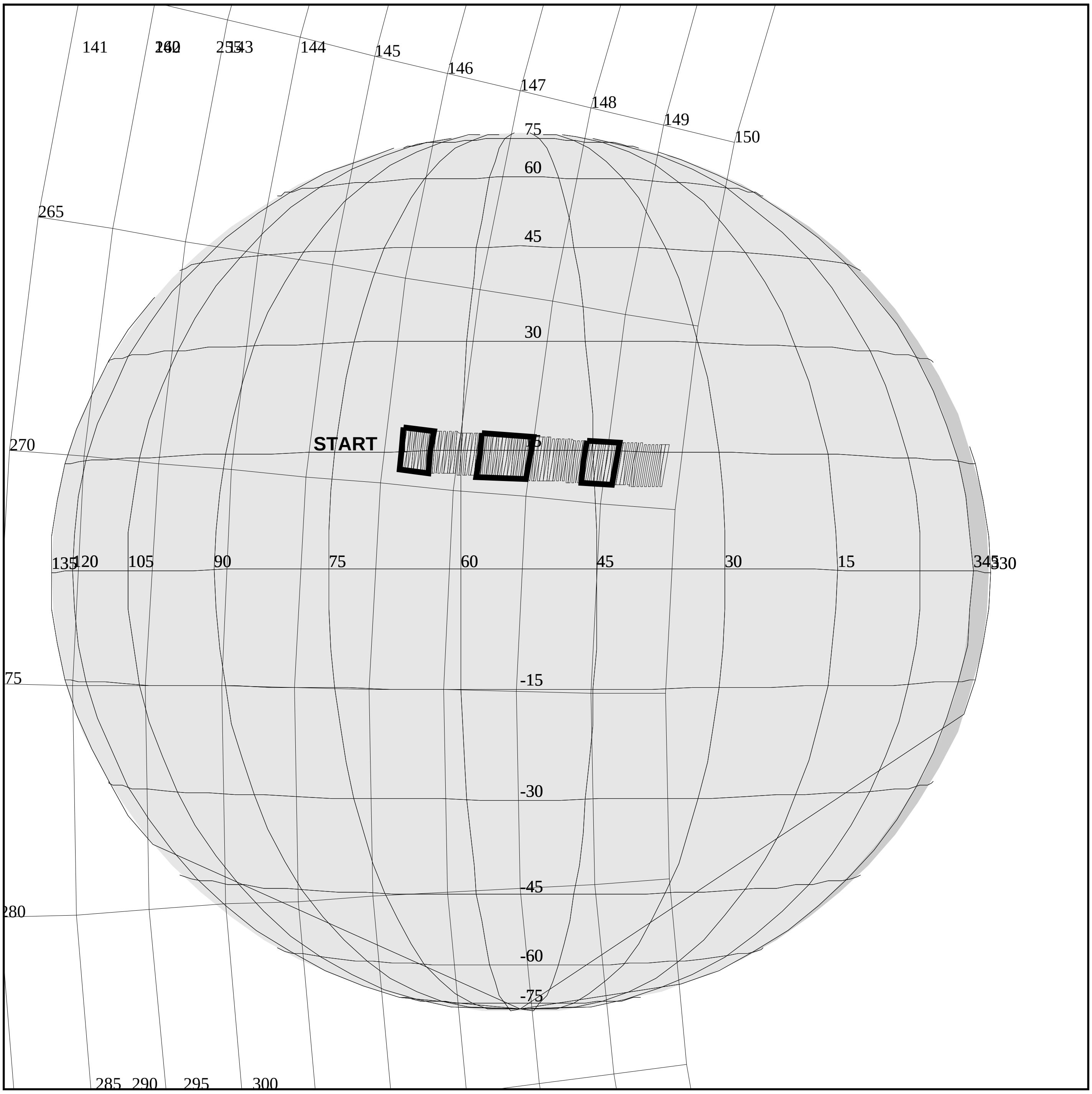
Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 Rim.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11DRK252, E11DRK32

Galileo Activity Plan Form   09/25/97 15:50:01   rev 6/95



165ES:TT=   0 TMC= 1 C= -31.00 XC=   0.00 BS= 0/6011 TC= 1(13.5   52   )
A= 728 pD=   0 SR=17.450 RA50=347.54 DEC50= -2.82 cone=146.25 clock=269.14
117ES:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/6011
1:#s= 1 Cs=   43.60 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD= 4368 rD=   40

11JNBRGFUL01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRGFUL01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066   +CDS 126:00:0

OBSERVATION:11JNBRGFUL01

THINNING:NIM   2

BODY PLOT TIME:TARGET-TIME D=   0 S= 0.900

DESCRIP:BROWN_BARGE_OBS

Brown Barge Obs	ACTIVITY ID: 11JNBRGFUL01- START TIME: 97-311/02:43:57.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRGFUL SeqNo 01 -

Title	Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 11/07/97	Week 45

Start	JEE+CDS 00000121:00:0	97-311/02:43:57.732	JEE+000/02:02:20.666
End	JEE+CDS 00000150:00:0	97-311/03:13:17.066	JEE+000/02:31:40.000
Duration	00000029:00:0	000/00:29:19.334	000/00:29:19.334

Top Label	11JNBRGFUL01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	180	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fourth of six OAPels constituting observations of the Brown Barge feature at 20 degrees phase. Full spectra observations in reflected light acquired at the central meridian.

Data Returned

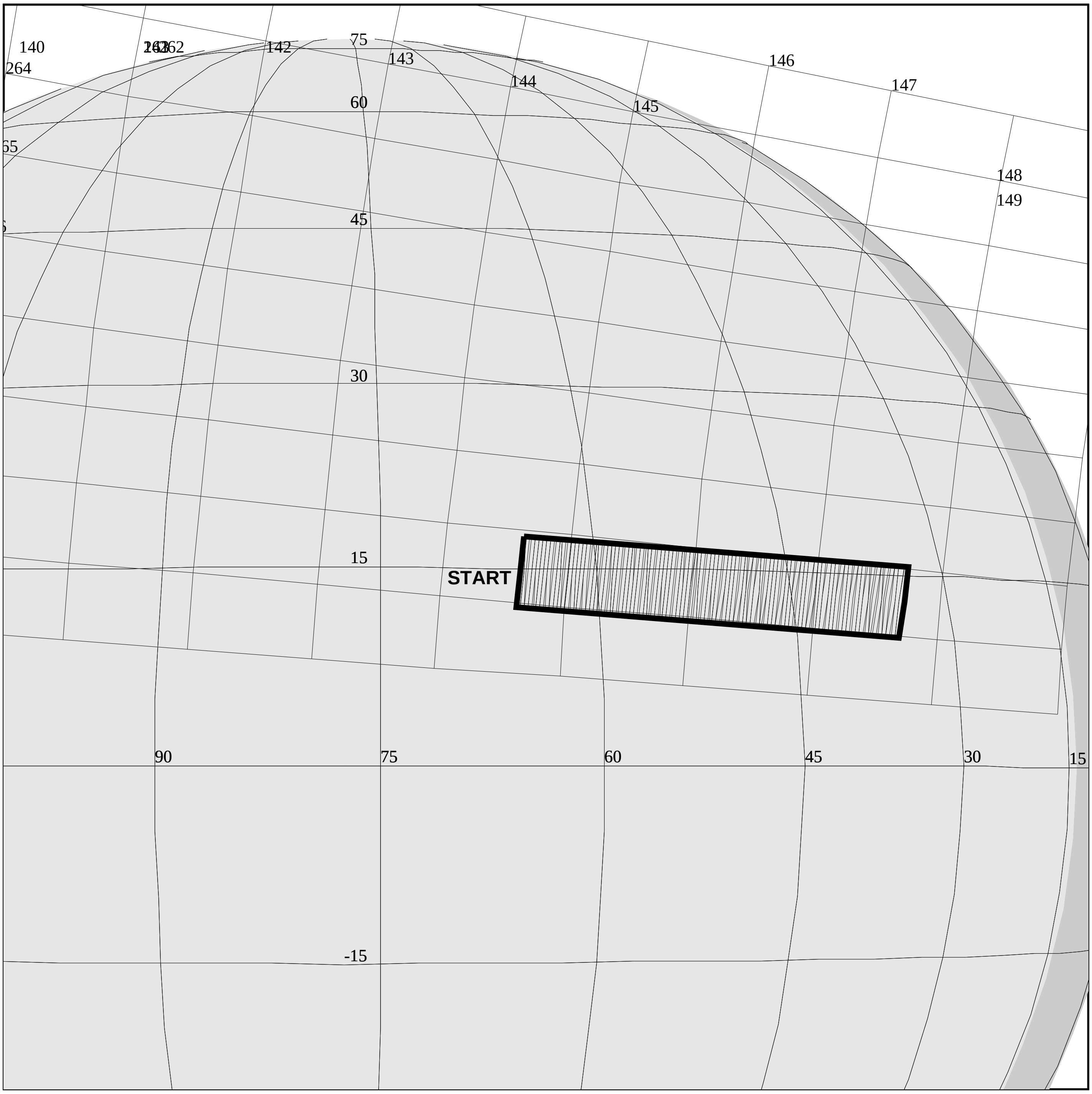
Design Detail

Long map, Nyquist sampling, 253 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 8.1 Rj, NIMS IFOV = 290km. Nominal incidence angle is 33.2 degrees, emission angle is 28.0 degrees.

3 segments returned from beginning, middle and end of the swath.

Last 4 Rims of swath not recorded.

Long Map (LM), Gain 2, Grating Start 0, LPU, E11JFE253A, E11JFE253A



165ET:TT=   0 TMC= 1 C= -26.00 XC=   0.00 BS= 0/4565 TC= 1(13.5   52   )
A= 728 pD=   0 SR=17.450 RA50=349.07 DEC50= -2.20 cone=144.62 clock=269.59
117ET:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/4565
1:#s= 1 Cs=   46.50 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD= 1274 rD=   2

11JNBRG02003

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG02003

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066   +CDS 173:00:0

OBSERVATION:11JNBRG02003

THINNING:NIM   2

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

DESCRIP:BROWN_BARGE_OBS_20_DEG_PHASE

Brown Barge Obs 20 deg phase	ACTIVITY ID:	11JNBRG02003-
	START TIME:	97-311/03:31:29.066

Activity ID: Orbit 11 Target J Inst N OAPEL BRG020 SeqNo 03 -

Title	Brown Barge Obs 20 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS   Load ID   Calendar Date 11/07/97 Week 45

Start	JEE+CDS 00000168:00:0	97-311/03:31:29.066	JEE+000/02:49:52.000
End	JEE+CDS 00000180:00:0	97-311/03:43:37.066	JEE+000/03:02:00.000
Duration	00000012:00:0	000/00:12:08.000	000/00:12:08.000

Top Label 11JNBRG02003-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fifth of six OAPels constituting observations of the Brown Barge feature at 20 degrees phase.

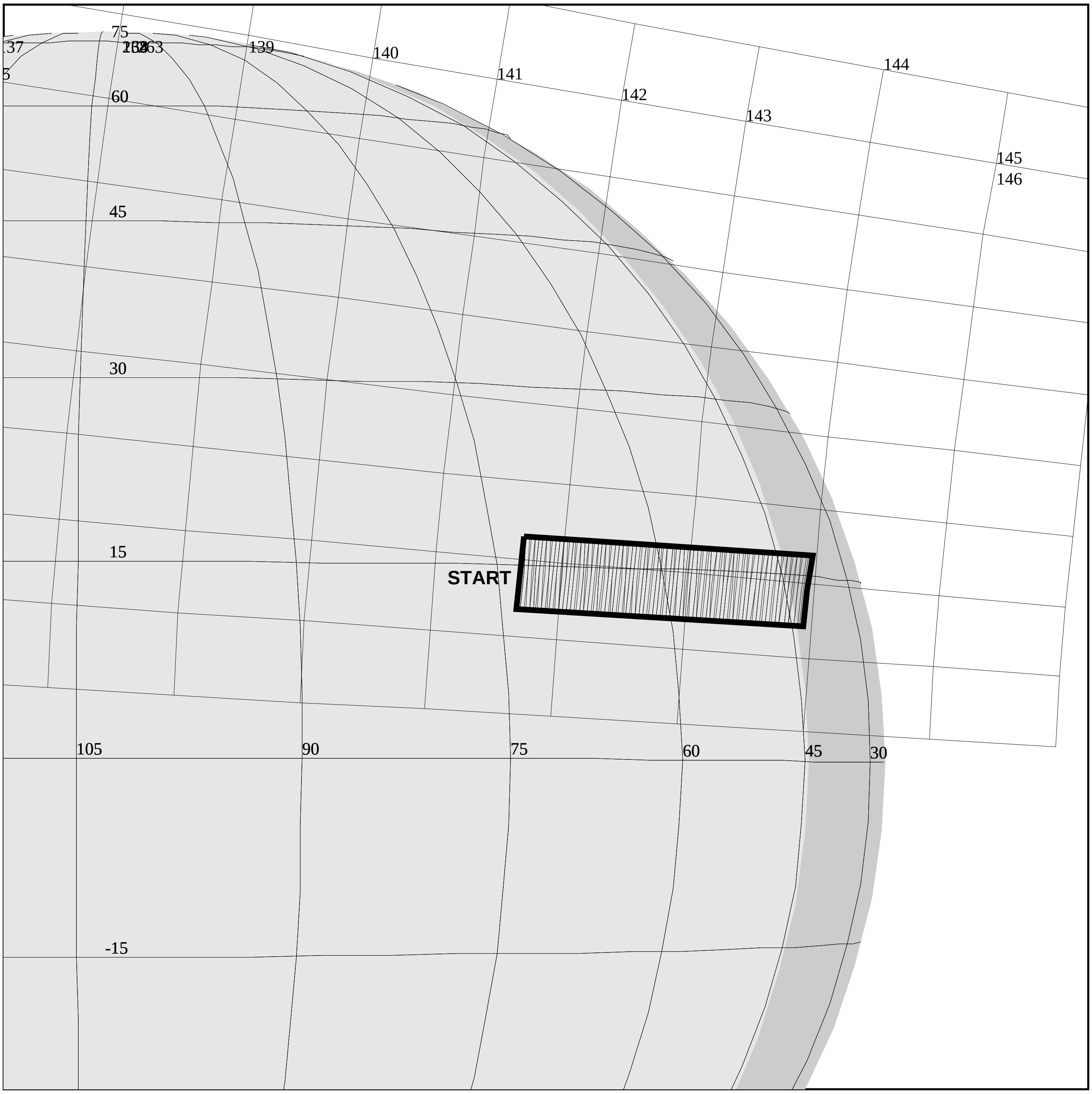
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 8.4 Rj, NIMS IFOV = 300km. Nominal incidence angle is 55.0 degrees, emission angle is 33.7 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form   09/25/97 15:50:02 rev 6/95



165EU:TT= 0 TMC= 1 C= -30.00 XC= 0.00 BS= 0/3665 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50=351.79 DEC50= -1.02 cone=141.68 clock=270.18
117EU:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3665
1:#s= 1 Cs= 33.20 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 910 rD= 2

11JNBRG02004

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG02004

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 +CDS 223:00:0

OBSERVATION:11JNBRG02004

THINNING:NIM 2

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

DESCRIP:BROWN_BARGE_OBS_20_DEG_PHASE

Brown Barge Obs 20 deg phase		ACTIVITY ID:	11JNBRG02004-
		START TIME:	97-311/04:22:02.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG020 SeqNo 04 -

Title	Brown Barge Obs 20 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97	Week	45

Start	JEE+CDS 00000218:00:0	97-311/04:22:02.399	JEE+000/03:40:25.333
End	JEE+CDS 00000228:00:0	97-311/04:32:09.066	JEE+000/03:50:32.000
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label   11JNBRG02004-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Sixth of six OAPels constituting observations of the Brown Barge feature at 20 degrees phase. Observations acquired near terminator.

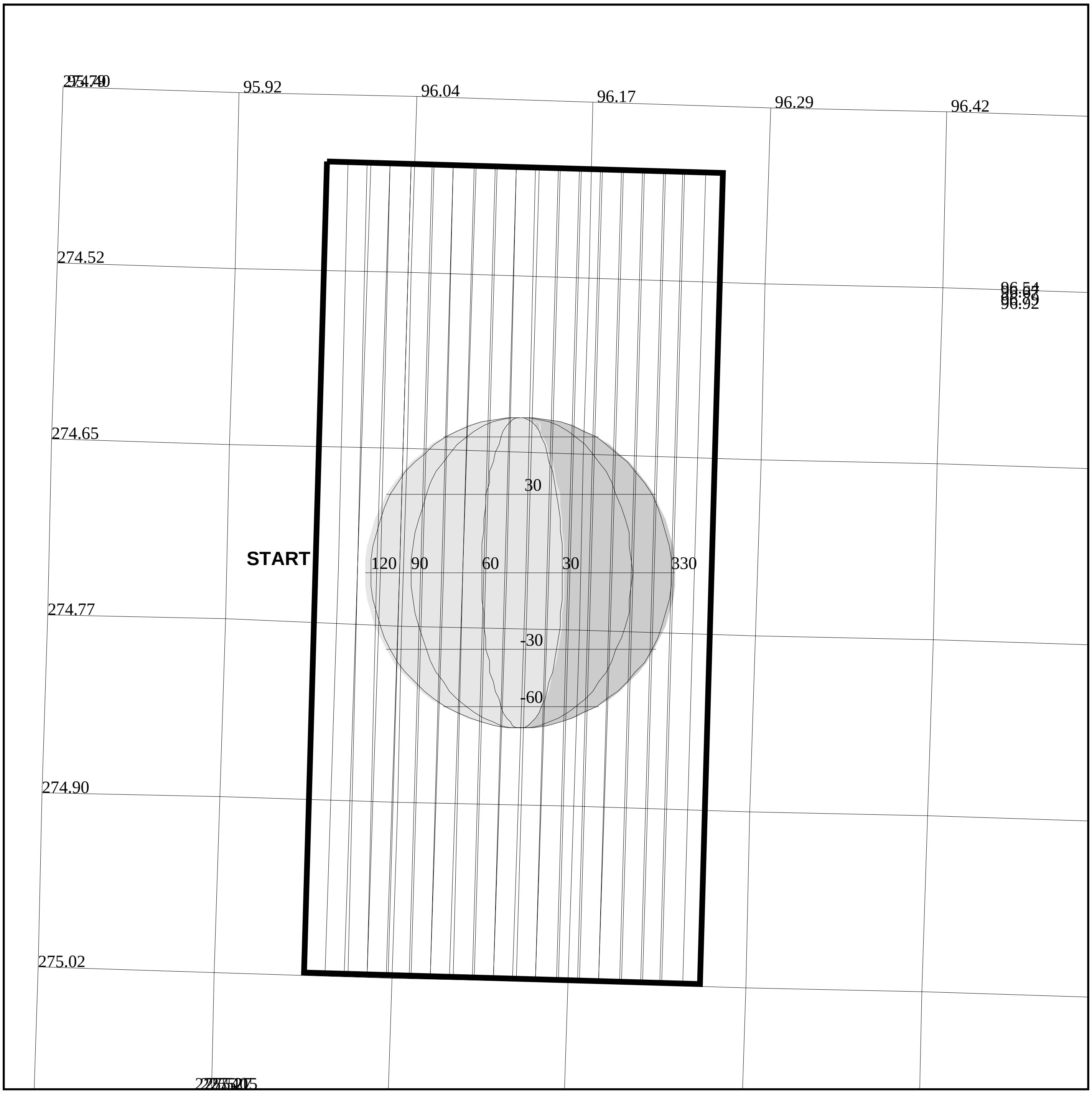
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 8.4 Rj, NIMS IFOV = 310km. Nominal incidence angle is 84.7 degrees, emission angle is 59.7 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form   09/25/97 15:50:02   rev 6/95



165EV:TT= 0 TMC= 1 C= -2.40 XC= 0.00 BS= 0/9519 TC= 3
A= 546 pD= 512 SR=17.450 RA50= 34.87 DEC50= 16.12 cone= 95.99 clock=274.73
117EV:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9519
1:#s= 1 Cs= 4.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 460 rD= 2

11INCHEMIS01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INCHEMIS01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-311/23:45:49.666 -CDS 949:00:0

OBSERVATION:11INCHEMIS01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.300

DESCRIP:Monitoring_Of_Io_Dayside

MONITORING OF IO’S DAYSIDE	ACTIVITY ID:	11INCHEMIS01-
	START TIME:	97-311/07:42:14.333

Activity ID: Orbit 11 Target I Inst N OAPEL CHEMIS SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date 11/07/97	Week 45

Start	IEE-CDS 00000953:00:0	97-311/07:42:14.333	IEE-000/16:03:35.333
End	IEE-CDS 00000946:00:0	97-311/07:49:19.000	IEE-000/15:56:30.666
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label	11INCHEMIS01-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. so2 distribution) at resolutions better than ~800km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

Design Detail

Partial or full disk mosaic 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, 360 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits to ground per orbit: 0.3 to 2.2 Mbits.
Record Mode = MPW
Gain State = 2

Long Map (LM), Gain 2, Grating Start 0, MPW, E11ILM442, E11ILM360

Galileo Activity Plan Form 09/25/97 15:50:02 rev 6/95

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NIMS Real-Time Software Reload ACTIVITY ID: 11NNRELOAD08-
START TIME: 97-311/12:49:37.066

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 08 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/07/97 Week 45

Start	JEE+CDS 720:00:0	97-311/12:49:37.066	JEE+000/12:08:00.000
End	JEE+CDS 730:00:0	97-311/12:59:43.732	JEE+000/12:18:06.666
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label 11NNRELOAD08-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

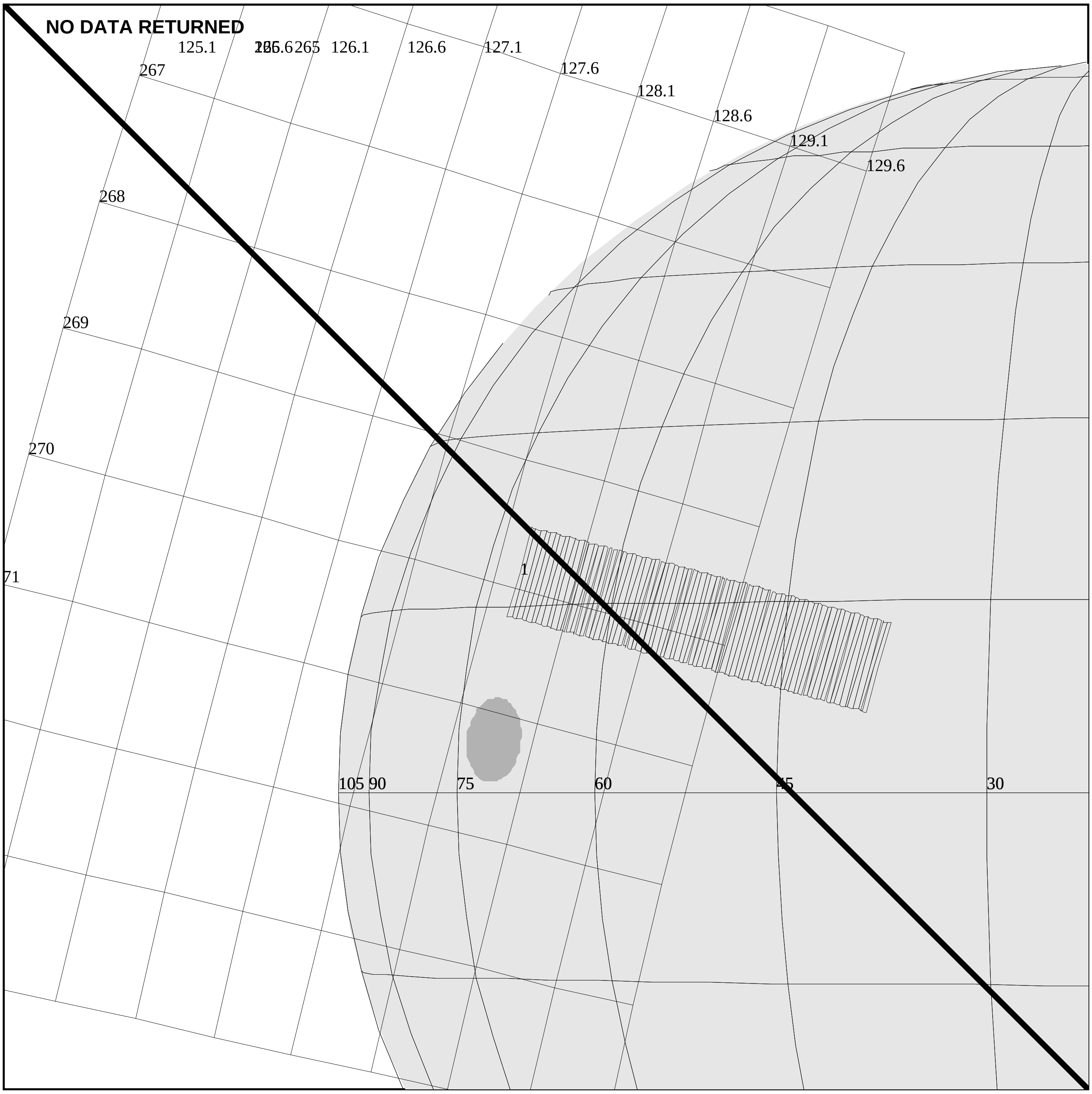
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor
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 09/25/97 15:50:02 rev 6/95



165EZ:TT= 0 TMC= 1 C= -20.00 XC= 0.00 BS= 0/8487 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 35.89 DEC50= 17.86 cone=128.22 clock=269.87
117EZ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8487
1:#s= 1 Cs= 39.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1070 rD= 2

11JNBRG07203

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG07203

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 +CDS 744:00:0

OBSERVATION:11JNBRG07203

THINNING:NIM 2

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

DESCRIP:BROWN_BARGE_OBS_72_DEG_PHASE

Brown Barge Obs 72 deg phase		ACTIVITY ID:	11JNBRG07203-
		START TIME:	97-311/13:08:49.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRG072 SeqNo 03 -

Title	Brown Barge Obs 72 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97	Week	45

Start	JEE+CDS 00000739:00:0	97-311/13:08:49.732	JEE+000/12:27:12.666
End	JEE+CDS 00000751:00:0	97-311/13:20:57.732	JEE+000/12:39:20.666
Duration	00000012:00:0	000/00:12:08.000	000/00:12:08.000

Top Label	11JNBRG07203-
Bottom Label	

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

Observation Objective

Third of five OAPels constituting observations of the Brown Barge feature at 72 degrees phase.

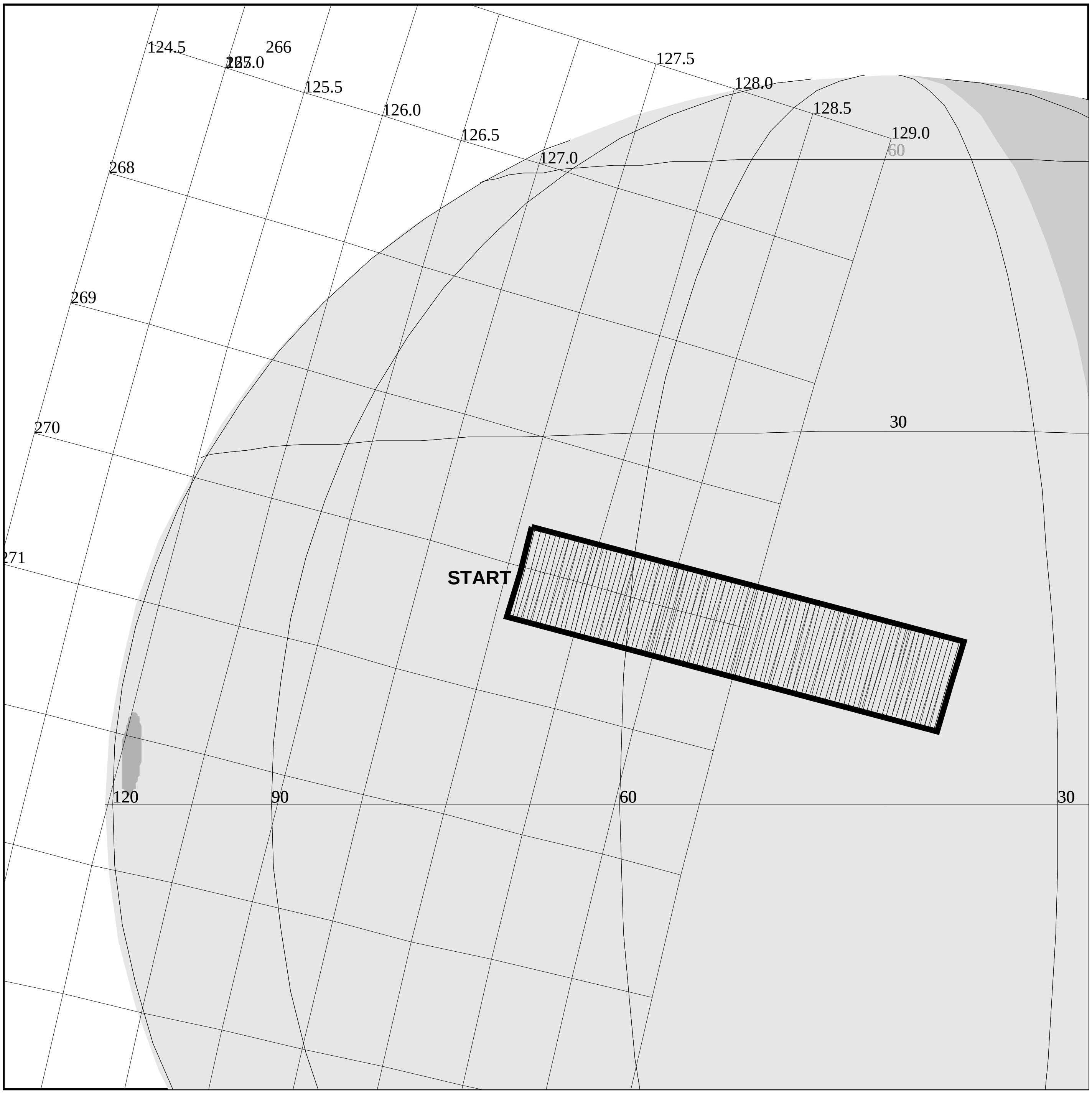
No Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors . Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 11.0 Rj, IFOV = 290km. Nominal incidence angle is 44.0 degrees, emission angle is 34 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:02 rev 6/95



165FA:TT= 0 TMC= 1 C= -24.00 XC= 0.00 BS= 0/5221 TC= 1(13.5 52)
A= 272 pD= 0 SR=17.450 RA50= 36.53 DEC50= 18.11 cone=127.57 clock=270.05
117FA:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5221
1:#s= 1 Cs= 46.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1274 rD= 2

11JNBRG07204

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG07204

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 +CDS 781:00:0

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

OBSERVATION:11JNBRG07204

DESCRIP:BROWN_BARGE_OBS_72_DEG_PHASE

Brown Barge Obs 72 deg phase	ACTIVITY ID: 11JNBRG07204- START TIME: 97-311/13:49:16.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG072 SeqNo 04 -

Title	Brown Barge Obs 72 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97	Week	45

Start	JEE+CDS 00000779:00:0	97-311/13:49:16.399	JEE+000/13:07:39.333
End	JEE+CDS 00000788:00:0	97-311/13:58:22.399	JEE+000/13:16:45.333
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	11JNBRG07204-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	164	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Four of five OAPels constituting observations of the Brown Barge feature at 72 degrees phase.

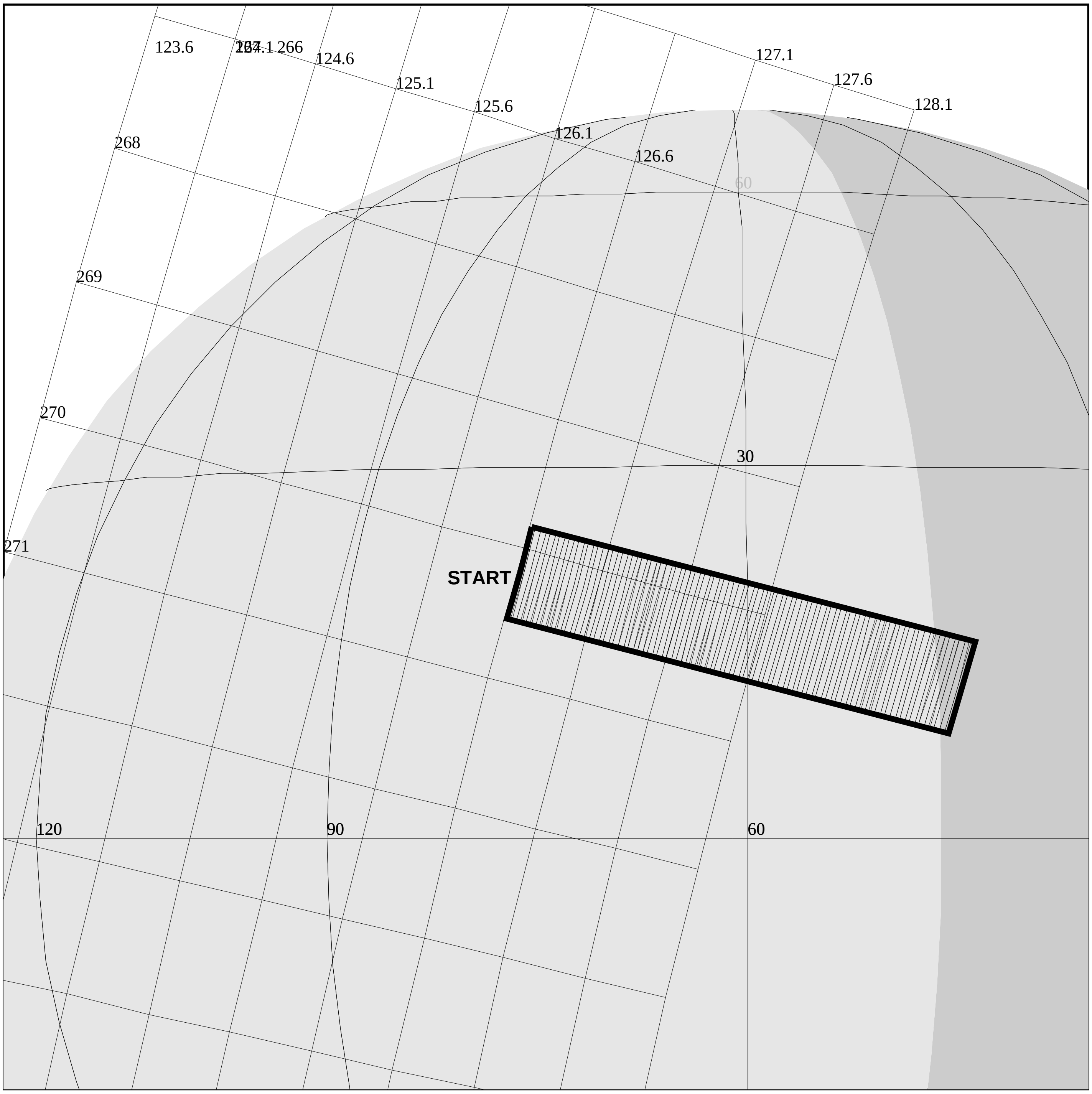
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a very large uncertainty of 40-65 degrees West longitude. Range is 11.2 Rj, NIMS IFOV = 400km. Nominal incidence angle is 65.9 degrees, emission angle is 17.5 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:02 rev 6/95



165FB:TT= 0 TMC= 1 C= -37.00 XC= 0.00 BS= 0/1591 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 37.45 DEC50= 18.59 cone=126.59 clock=270.17
117FB:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/1591
1:#s= 1 Cs= 46.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 1274 rD= 2

11JNBRG07205

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG07205

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 816:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500**

OBSERVATION:11JNBRG07205 **DESCRIP:BROWN_BARGE_OBS_72_DEG_PHASE**

Brown Barge Obs 72 deg phase		ACTIVITY ID:	11JNBRG07205-
		START TIME:	97-311/14:21:37.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRG072 SeqNo 05 -

Title	Brown Barge Obs 72 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/07/97 Week 45

Start	JEE+CDS 00000811:00:0	97-311/14:21:37.732	JEE+000/13:40:00.666
End	JEE+CDS 00000823:00:0	97-311/14:33:45.732	JEE+000/13:52:08.666
Duration	00000012:00:0	000/00:12:08.000	000/00:12:08.000

Top Label	11JNBRG07205-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	164	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

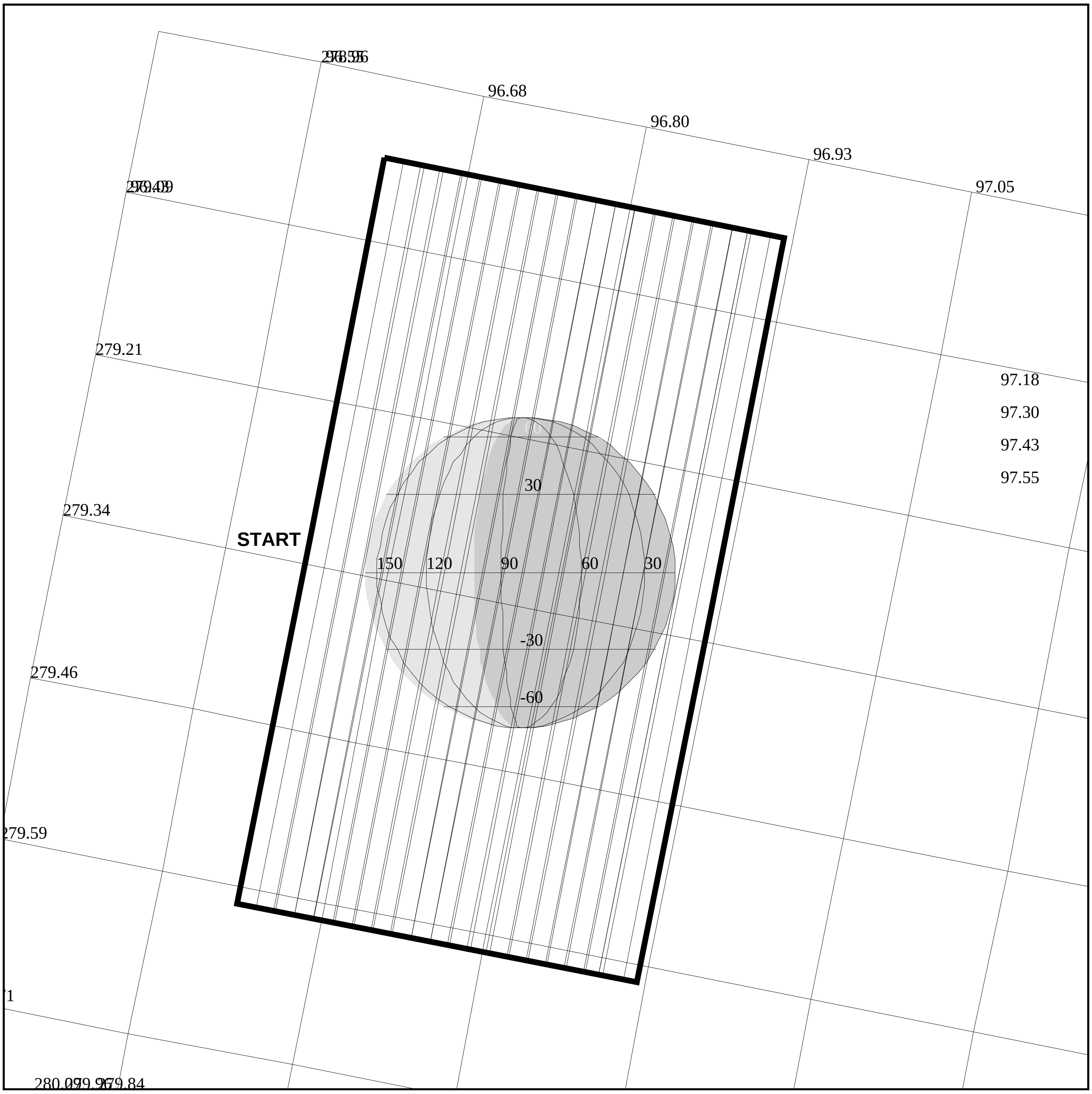
Five of five OAPels constituting observations of the Brown Barge feature at 72 degrees phase. Observations acquired near terminator.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 11.5 Rj, NIMS IFOV = 680km. Nominal incidence angle is 35 degrees, emission angle is 83 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A



165FC:TT= 0 TMC= 1 C= -2.70 XC= 0.00 BS= 0/0701 TC= 3
A= 364 pD= 546 SR=17.450 RA50= 70.37 DEC50= 24.49 cone= 96.62 clock=279.31
117FC:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/0701
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 546 rD= 2

11INCHEMIS02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INCHEMIS02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-311/23:45:49.666 -CDS 448:00:0

OBSERVATION:11INCHEMIS02

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 546 S= 0.300

DESCRIP:Monitoring_Of_Io_Dayside

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: 11INCHEMIS02- START TIME: 97-311/16:09:49.000

Activity ID: Orbit 11 Target I Inst N OAPEL CHEMIS SeqNo 02 -

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

Time System CDS Load ID Calendar Date 11/07/97 Week 45

Start	IEE-CDS 00000451:00:0	97-311/16:09:49.000	IEE-000/07:36:00.666
End	IEE-CDS 00000445:00:0	97-311/16:15:53.000	IEE-000/07:29:56.666
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label 11INCHEMIS02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	156	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. so2 distribution) at resolutions better than ~800km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

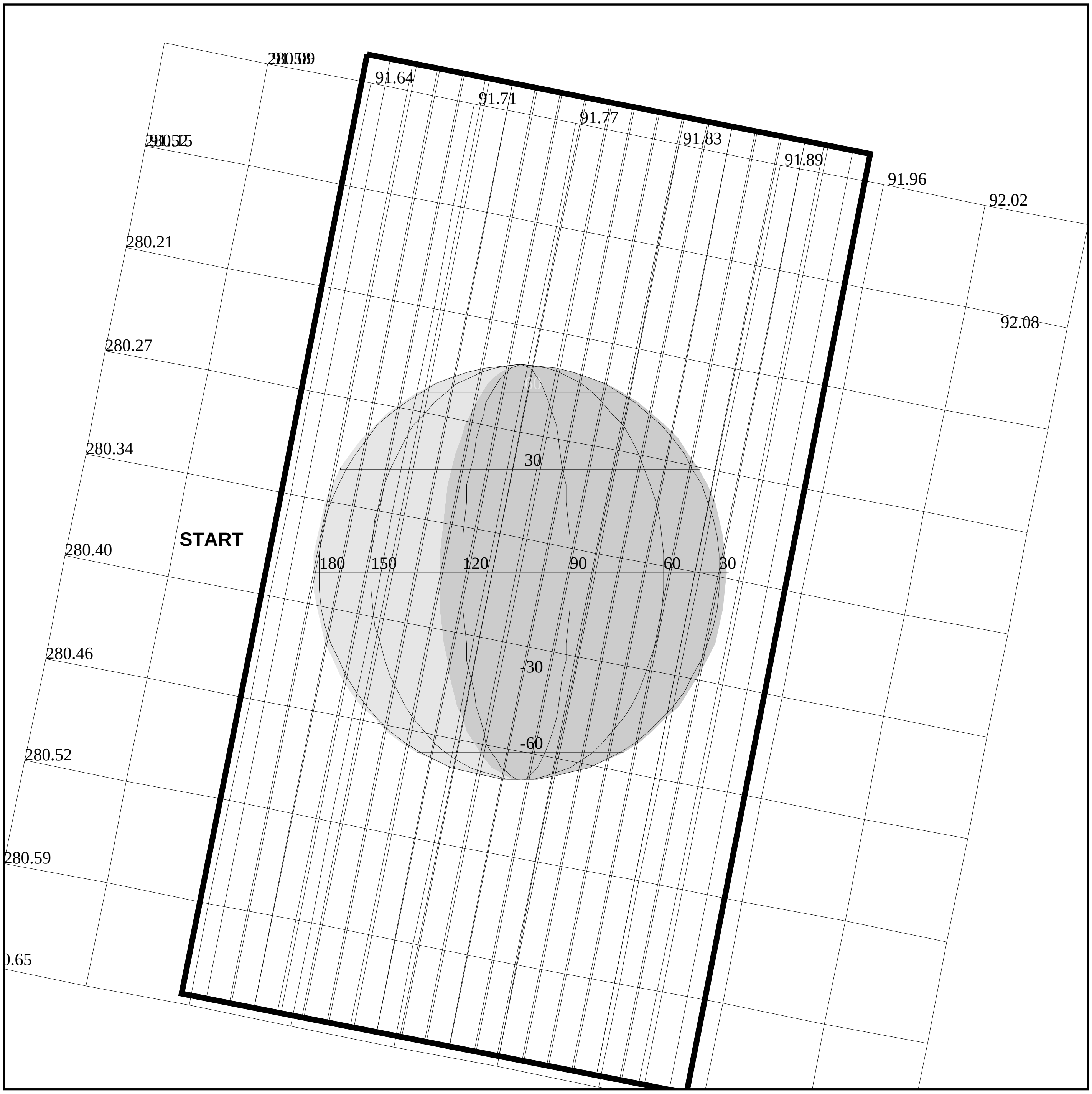
Design Detail

Partial or full disk mosaic 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, 360 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits to ground per orbit: 0.3 to 2.2 Mbits.
Record Mode = LPU
Gain State = 2

Long Map (LM), Gain 2, Grating Start 0, LPU, E11ILM243C, E11ILM228C

Galileo Activity Plan Form 09/25/97 15:50:02 rev 6/95



165FD:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/3643 TC= 3
A= 728 pD= 512 SR=17.450 RA50= 75.94 DEC50= 24.99 cone= 91.65 clock=280.36
117FD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3643
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 512 rD= 2

11INVOLCAN01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INVOLCAN01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-311/23:45:49.666 -CDS 267:00:0

OBSERVATION:11INVOLCAN01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.400

DESCRIP:Monitoring_Of_Selected_Volc_Reg

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: 11INVOLCAN01-
START TIME: 97-311/19:10:48.333

Activity ID: Orbit 11 Target I Inst N OAPEL VOLCAN SeqNo 01 -

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

Time System CDS Load ID Calendar Date 11/07/97 Week 45

Start	IEE-CDS 00000272:00:0	97-311/19:10:48.333	IEE-000/04:35:01.333
End	IEE-CDS 00000263:00:0	97-311/19:19:54.333	IEE-000/04:25:55.333
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label 11INVOLCAN01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	151	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

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

Data Returned

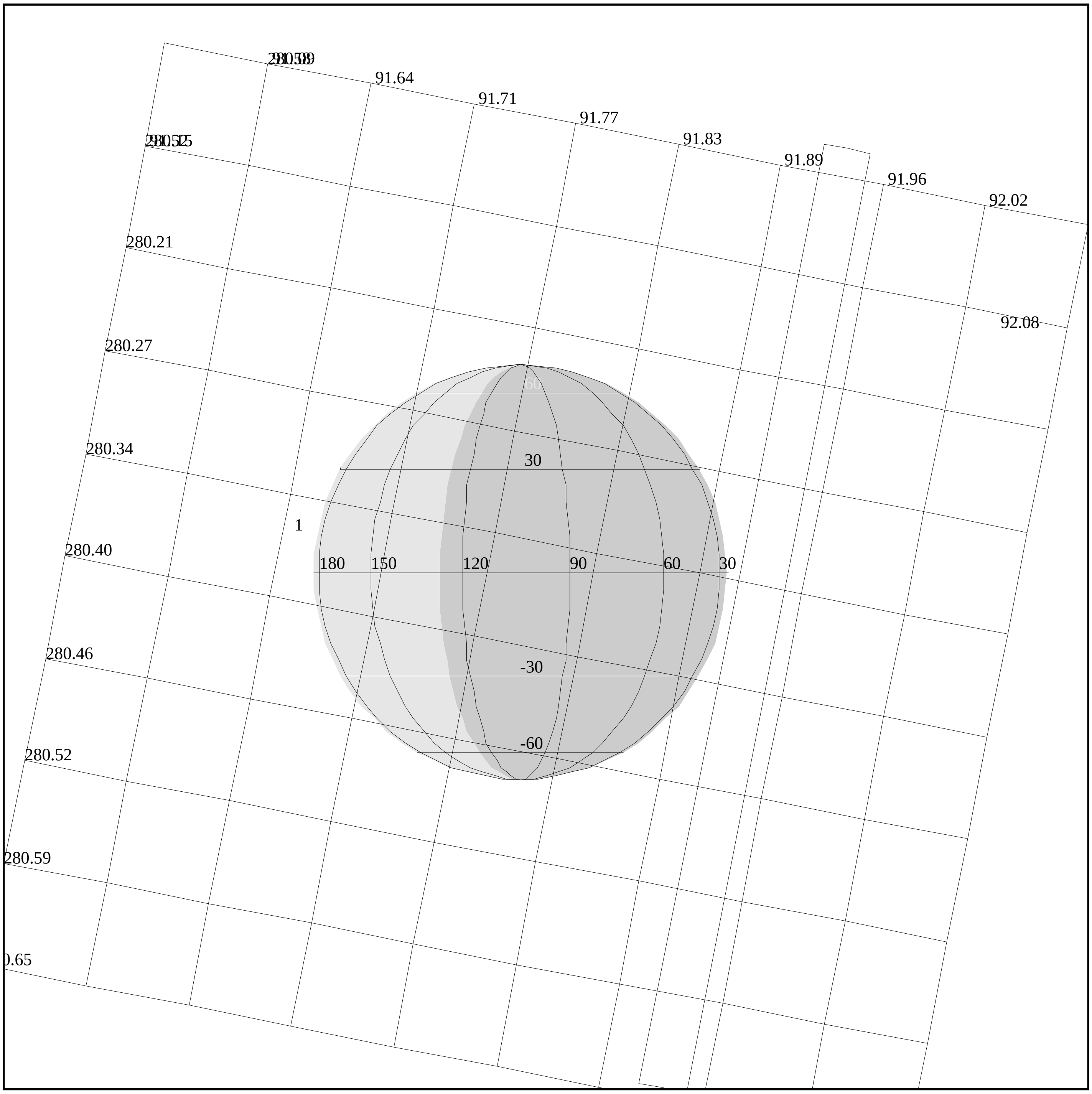
Design Detail

Long Map, 228 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.
Nyquist Sampling.

Locations of features: Kanehekili (-10 d. lat., +40 d. long.)
Pelee (-20 d. lat., -255 d. long.)
Loki (+12 d. lat., 310 d. long.)
Record mode = LPU
Gain State = 4

Long Map (LM), Gain 4, Grating Start 0, LPU, E11ILMDRK243D, E11ILMDRK228D

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95



165FD:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/3643 TC= 3
A= 728 pD= 512 SR=17.450 RA50= 75.94 DEC50= 24.99 cone= 91.65 clock=280.36
117FD:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3643
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 512 rD= 2

11NNHEALTH03

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INVOLCAN01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-311/23:45:49.666 -CDS 267:00:0

OBSERVATION:11INVOLCAN01

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.400

DESCRIP:Monitoring_Of_Selected_Volc_Reg

NIMS Health Observation	ACTIVITY ID: 11NNHEALTH03- START TIME: 97-311/19:19:54.333

Activity ID: Orbit 11 Target N Inst N OAPEL HEALTH SeqNo 03 -

Title	NIMS Health Observation			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 11/07/97 Week 45

Start	IEE-CDS 263:00:0	97-311/19:19:54.333	IEE-000/04:25:55.333
End	IEE-CDS 258:00:0	97-311/19:24:57.666	IEE-000/04:20:52.000
Duration	00000005:00:0	000/00:05:03.333	000/00:05:03.333

Top Label 11NNHEALTH03-
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

To observe the health and state of the NIMS instrument.

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 of Jupiter for a target.

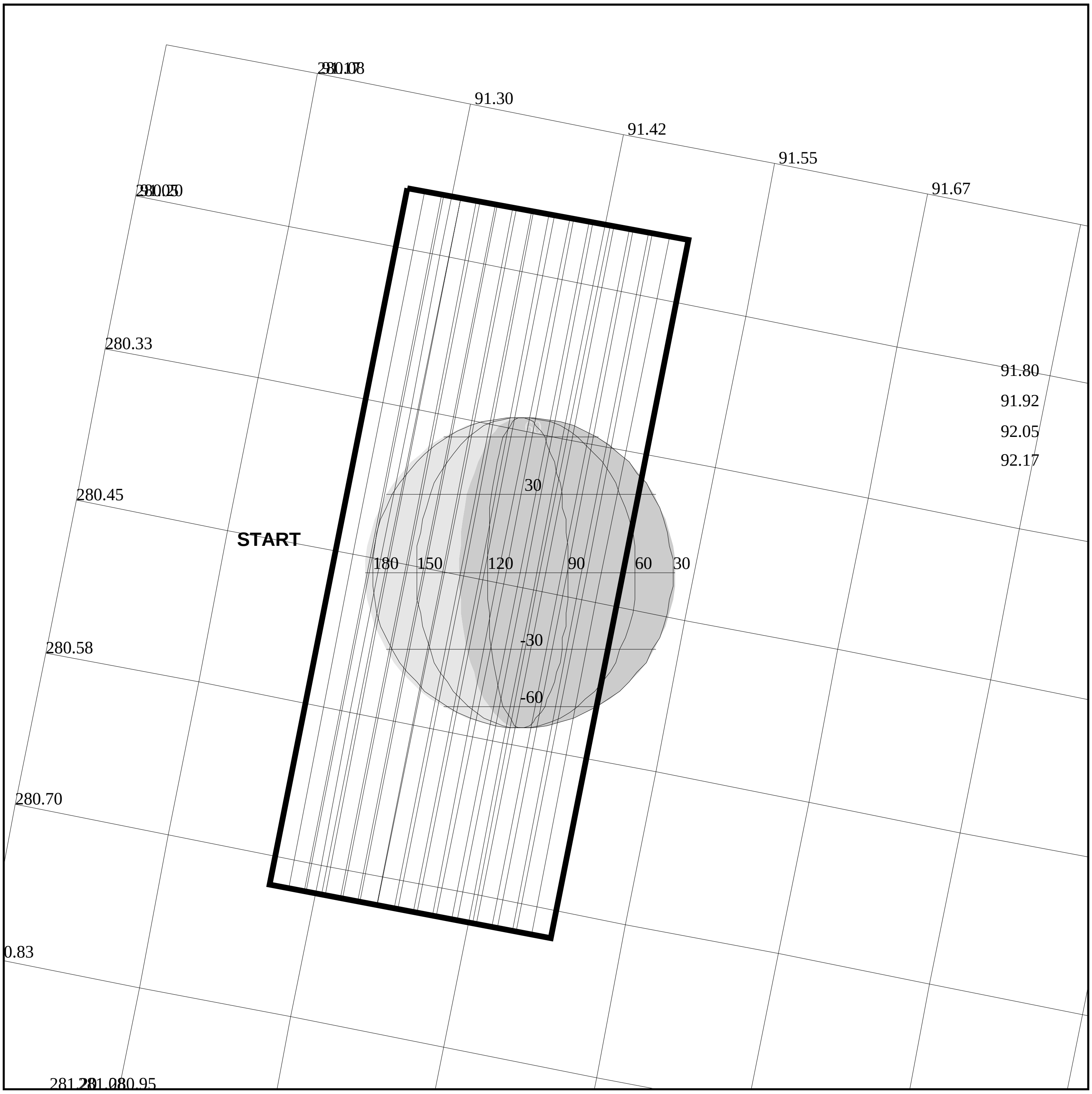
Data Returned

Design Detail

No scan platform commanding.
The scan platform is at the end of the slew of the previous observation: 11INVOLCAN01

Long Map (LM), Gain 2, Grating Start 0, R/T, E11RCVY3

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95



165FE:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/9285 TC= 3
A= 182 pD= 182 SR=17.450 RA50= 76.37 DEC50= 25.02 cone= 91.26 clock=280.44
117FE:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/9285
1:#s= 1 Cs= 3.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 364 rD= 2

11INCHEMIS03

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INCHEMIS03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-311/23:45:49.666 -CDS 236:00:0

BODY PLOT TIME:TARGET-TIME D= 182 S= 0.300

OBSERVATION:11INCHEMIS03

DESCRIP:Monitoring_Of_Io_Dayside

MONITORING OF IO'S DAYSIDE	ACTIVITY ID:	11INCHEMIS03-
	START TIME:	97-311/19:45:11.000

Activity ID: Orbit 11 Target I Inst N OAPEL CHEMIS SeqNo 03 -

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

Time System	CDS	Load ID		Calendar Date	11/07/97	Week	45

Start	IEE-CDS 00000238:00:0	97-311/19:45:11.000	IEE-000/04:00:38.666
End	IEE-CDS 00000234:00:0	97-311/19:49:13.666	IEE-000/03:56:36.000
Duration	00000004:00:0	000/00:04:02.666	000/00:04:02.666

Top Label	11INCHEMIS03-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	156	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. so2 distribution) at resolutions better than ~800km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

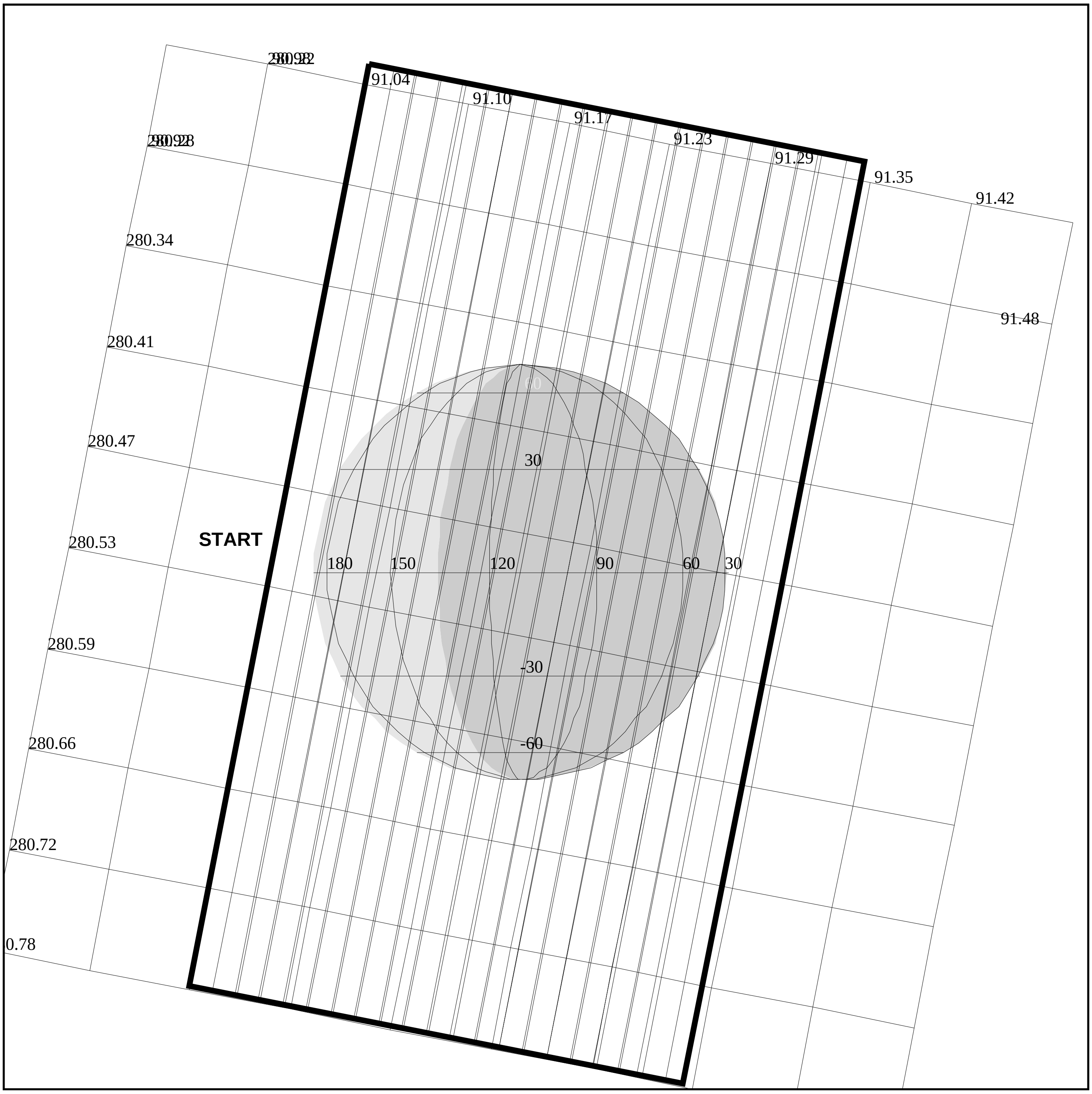
Design Detail

Partial or full disk mosaic 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, 360 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits to ground per orbit: 0.3 to 2.2 Mbits.
Record Mode = MPW
Gain State = 2

Long Map (LM), Gain 2, Grating Start 0, MPW, E11ILM442, E11ILM360

Galileo Activity Plan Form   09/25/97 15:50:03   rev 6/95



165FF:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/4381 TC= 3
A= 728 pD= 512 SR=17.450 RA50= 76.62 DEC50= 25.03 cone= 91.05 clock=280.49
117FF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4381
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 512 rD= 2

11INVOLCAN02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INVOLCAN02

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-311/23:45:49.666 -CDS 208:00:0

OBSERVATION:11INVOLCAN02

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.400

DESCRIP:Monitoring_Of_Selected_Volc_Reg

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: 11INVOLCAN02-
START TIME: 97-311/20:10:27.666

Activity ID: Orbit 11 Target I Inst N OAPEL VOLCAN SeqNo 02 -

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

Time System	CDS	Load ID		Calendar Date 11/07/97	Week 45

Start	IEE-CDS 00000213:00:0	97-311/20:10:27.666	IEE-000/03:35:22.000
End	IEE-CDS 00000204:00:0	97-311/20:19:33.666	IEE-000/03:26:16.000
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label   11INVOLCAN02-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	161	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

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

Data Returned

Design Detail

Long Map, 228 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.
Nyquist Sampling.

Locations of features: Kanehekili (-10 d. lat., +40 d. long.)
Pelee   (-20 d. lat., -255 d. long.)
Loki   (+12 d. lat., 310 d. long.)
Record mode = LPU
Gain State = 4

Long Map (LM), Gain 4, Grating Start 0, LPU, E11ILMDK243D, E11ILMDRK228D

Galileo Activity Plan Form   09/25/97 15:50:03   rev 6/95

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Test of special load	ACTIVITY ID: 11NNLDTEST02- START TIME: 97-311/20:20:34.333

Activity ID: Orbit 11 Target N Inst N OAPEL LDTEST SeqNo 02 -

Title	Test of special load			Instrument	NIMS
Requestor	NIMS-SWG/m. segura	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 11/07/97 Week 45

Start	IEE-CDS 00000203:00:0	97-311/20:20:34.333	IEE-000/03:25:15.333
End	IEE-CDS 00000199:00:0	97-311/20:24:37.000	IEE-000/03:21:12.666
Duration	00000004:00:0	000/00:04:02.667	000/00:04:02.667

Top Label 11NNLDTEST02-
Bottom Label

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

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

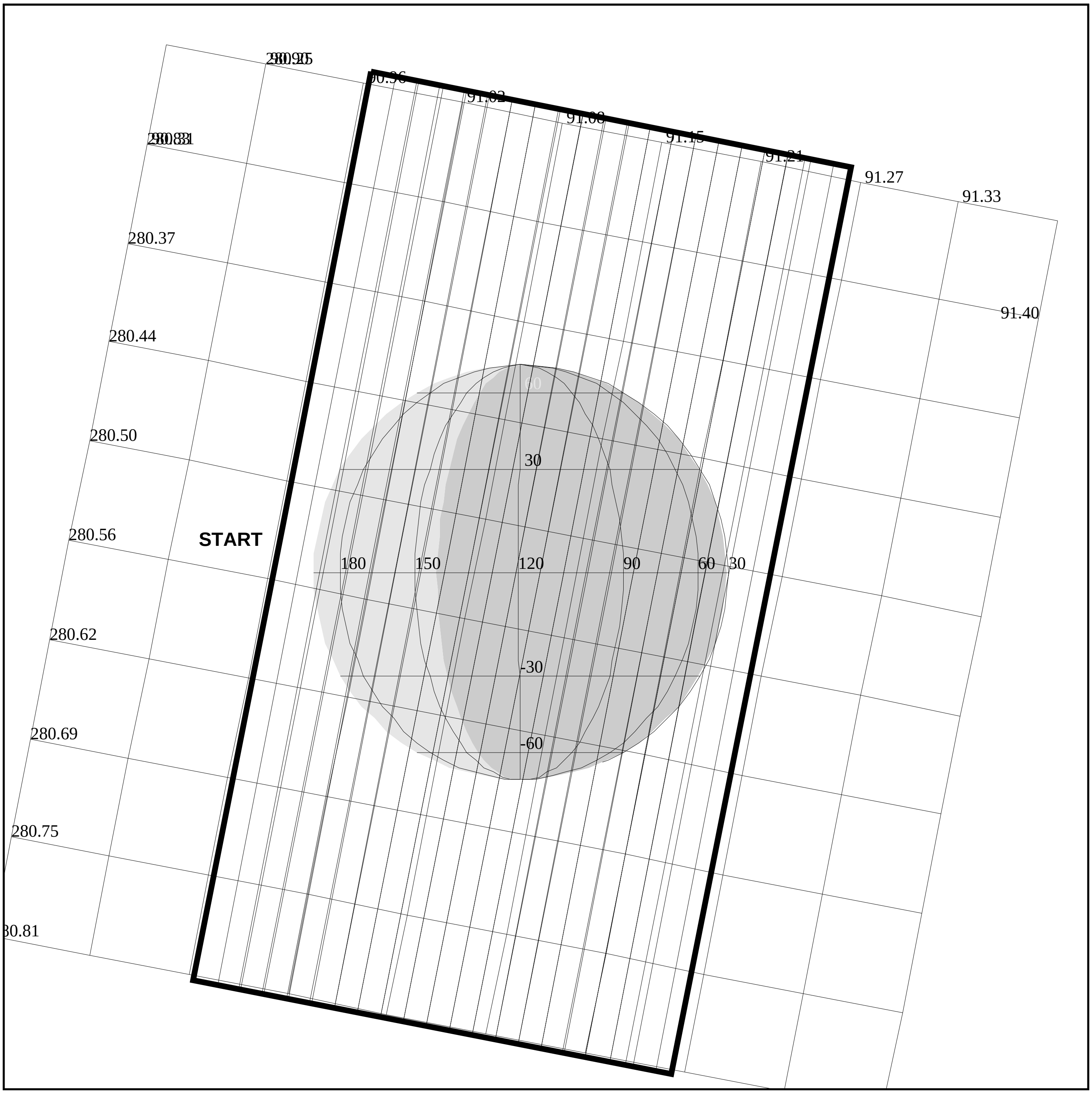
This Test Load loads the NIMS software in a much shorter time
than the nominal time.
This is being tested for use during GEM.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor
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 09/25/97 15:50:03 rev 6/95



165FG:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/4573 TC= 3
A= 364 pD= 182 SR=17.450 RA50= 76.71 DEC50= 25.01 cone= 90.97 clock=280.53
117FG:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4573
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 514 rD= 2

11INVOLCAN03

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INVOLCAN03

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-311/23:45:49.666 -CDS 152:00:0

OBSERVATION:11INVOLCAN03

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 182 S= 0.400

DESCRIP:Monitoring_Of_Selected_Volc_Reg

MONITORING OF SELECTED VOLCANIC REGIONS ACTIVITY ID: 11INVOLCAN03-
START TIME: 97-311/21:09:06.333

Activity ID: Orbit 11 Target I Inst N OAPEL VOLCAN SeqNo 03 -

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

Time System CDS Load ID Calendar Date 11/07/97 Week 45

Start	IEE-CDS 00000155:00:0	97-311/21:09:06.333	IEE-000/02:36:43.333
End	IEE-CDS 00000149:00:0	97-311/21:15:10.333	IEE-000/02:30:39.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label 11INVOLCAN03-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	161	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

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

Data Returned

Design Detail

Long Map, 228 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.
Nyquist Sampling.

Locations of features: Kanehekili (-10 d. lat., +40 d. long.)
Pelee (-20 d. lat., -255 d. long.)
Loki (+12 d. lat., 310 d. long.)
Record mode = LPU
Gain State = 4

Long Map (LM), Gain 4, Grating Start 0, LPU, E11ILMDK243D, E11ILMDRK228D

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95

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NIMS Real-Time Software Reload — ACTIVITY ID: 11NNRELOAD09-
START TIME: 97-311/21:21:14.333

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 09 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	11/07/97	Week	45

Start	IEE-CDS 143:00:0	97-311/21:21:14.333	IEE-000/02:24:35.333
End	IEE-CDS 133:00:0	97-311/21:31:21.000	IEE-000/02:14:28.666
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 11NNRELOAD09-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

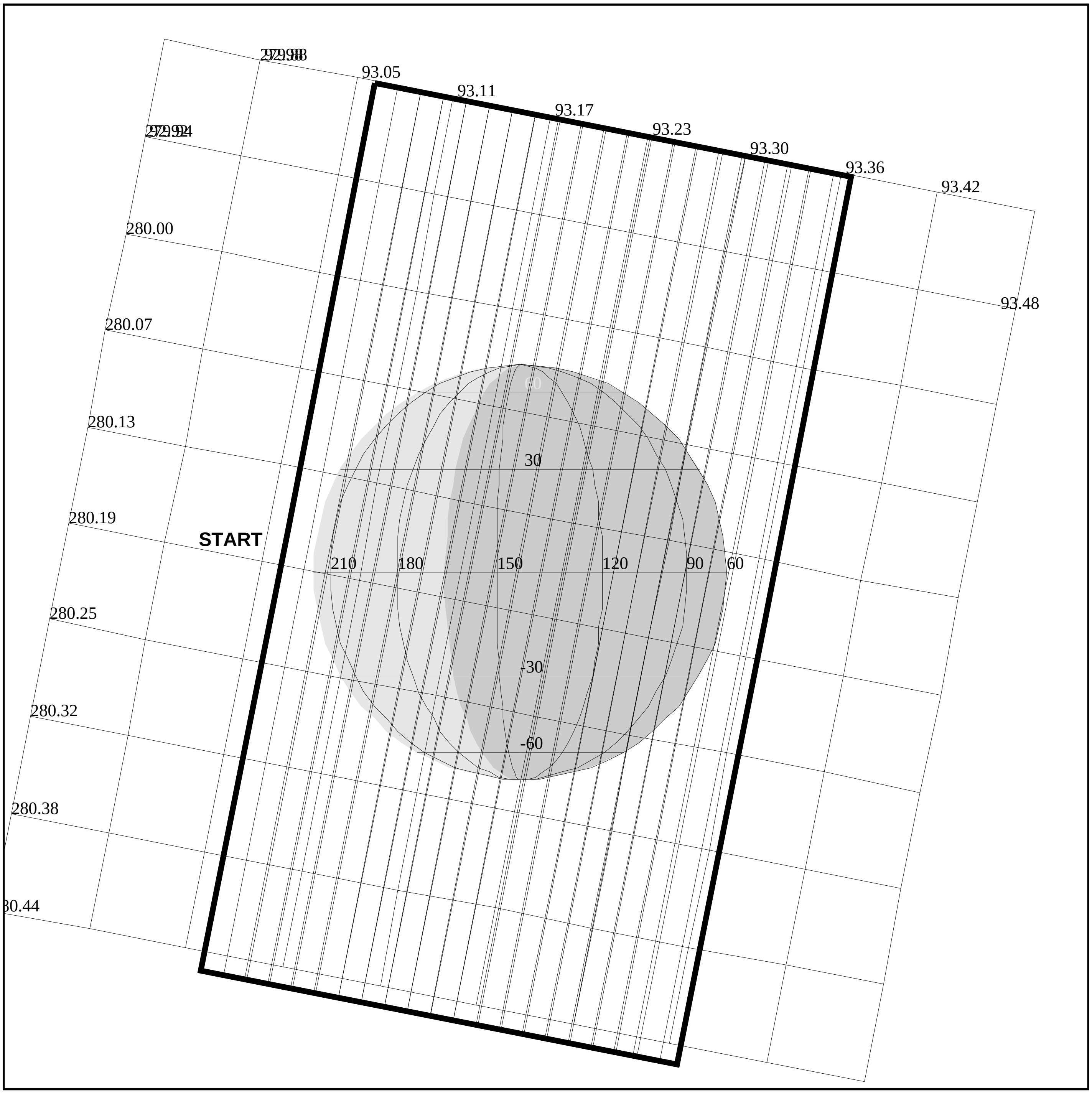
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor
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 09/25/97 15:50:03 rev 6/95



165FI:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/2237 TC= 3
A= 728 pD= 512 SR=17.450 RA50= 74.38 DEC50= 24.77 cone= 93.07 clock=280.17
117FI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2237
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 512 rD= 2

11INHRSPEC01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INHRSPEC01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-311/23:45:49.666 +CDS 00:00:0

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.400

OBSERVATION:11INHRSPEC01

DESCRIP:Monitoring_Of_Io_Dayside

MONITORING OF IO'S DAYSIDE	ACTIVITY ID: 11INHRSPEC01- START TIME: 97-311/23:40:46.333

Activity ID: Orbit 11 Target I Inst N OAPEL HRSPEC SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	11/07/97	Week	45

Start	IEE-CDS 00000005:00:0	97-311/23:40:46.333	IEE-000/00:05:03.333
End	IEE+CDS 00000003:00:0	97-311/23:48:51.666	IEE+000/00:03:02.000
Duration	00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label 11INHRSPEC01-
Bottom Label

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

Observation Objective

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

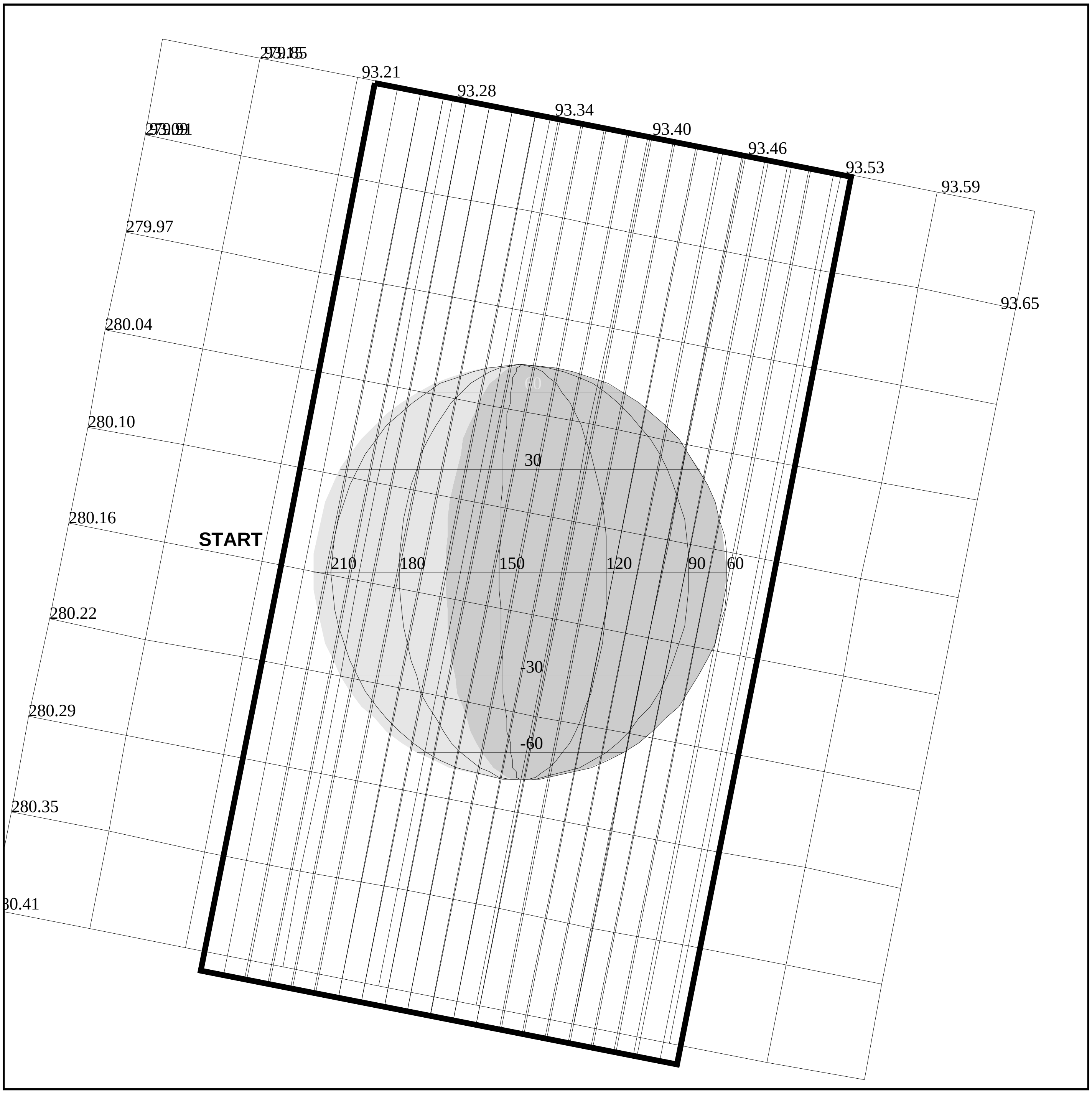
Data Returned

Design Detail

Global mosaic in Long Map (360 wavelengths).
Record Mode = MPW.
Gain State = 2

Long Map (LM), Gain 2, Grating Start 0, MPW, E11ILM442, E11ILM360

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95



165FJ:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/3511 TC= 3
A= 728 pD= 512 SR=17.450 RA50= 74.19 DEC50= 24.75 cone= 93.23 clock=280.14
117FJ:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3511
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 512 rD= 2

11INNSPEC_01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INNSPEC_01

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 1

START:IEE 97-311/23:45:49.666 +CDS 07:00:0

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.400

OBSERVATION:11INNSPEC_01

DESCRIP:Nightside_Spectra_At_High_Res

NIGHTSIDE SPECTRA AT HIGH RESOLUTION	**ACTIVITY ID: 11INNSPEC 01-** **START TIME: 97-311/23:48:51.666**

Activity ID: Orbit 11 Target I Inst N OAPEL NSPEC SeqNo 01 -

Title	NIGHTSIDE SPECTRA AT HIGH RESOLUTION			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	11/07/97	Week 45

Start	IEE+CDS 3:00:0	97-311/23:48:51.666	IEE+000/00:03:02.000
End	IEE+CDS 10:00:0	97-311/23:55:56.332	IEE+000/00:10:06.666
Duration	00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label 11INNSPEC 01-
Bottom Label

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

Observation Objective

To monitor the activity of Io’s hotspots at high spatial and spectral resolution.

Data Returned

Design Detail

Full disk mosaic, Nyquist samplig,
Number of wavelengths = 360.
Record mode = MPW
Gain state = 4

Long Map (LM), Gain 4, Grating Start 0, MPW, E11ILM442, E11ILM360

Galileo Activity Plan Form 09/25/97 15:50:03 rev 6/95

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NIMS Real-Time Software Reload	ACTIVITY ID: 11NNRELOAD10- START TIME: 97-312/03:19:10.332

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 10 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	11/08/97	Week	45

Start	IEE+CDS 00000211:00:0	97-312/03:19:10.332	IEE+000/03:33:20.666
End	IEE+CDS 00000221:00:0	97-312/03:29:16.999	IEE+000/03:43:27.333
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label	11NNRELOAD10-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

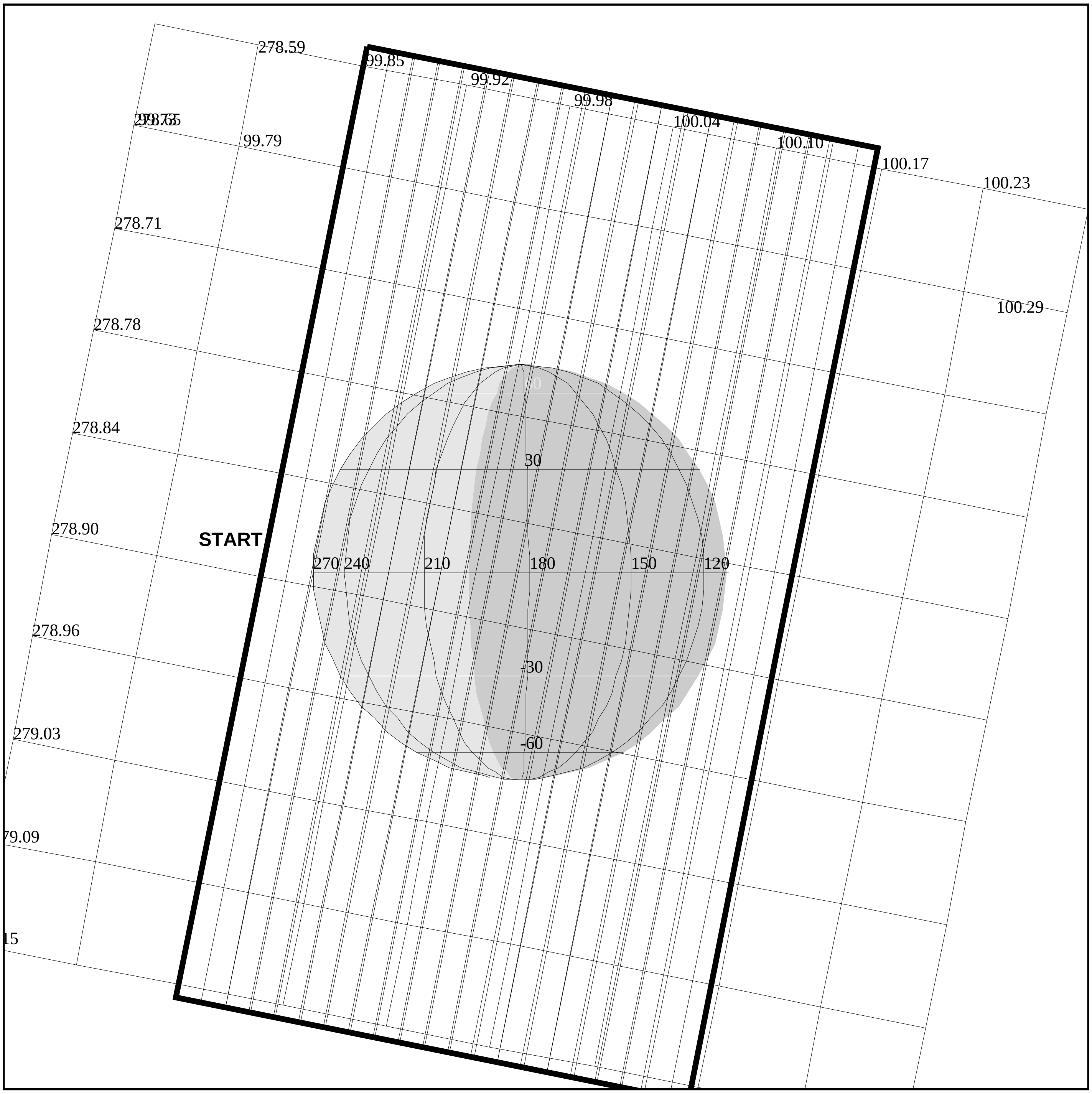
Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL   - Halt NIMS Processor
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   09/25/97 15:50:04   rev 6/95



165FL:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/3005 TC= 3
A= 364 pD= 508 SR=17.450 RA50= 66.86 DEC50= 23.82 cone= 99.86 clock=278.87
117FL:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/3005
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 508 rD= 2

11INCHEMIS04

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INCHEMIS04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-311/23:45:49.666 +CDS 224:00:0

OBSERVATION:11INCHEMIS04

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 508 S= 0.400

DESCRIP:Monitoring_Of_Io_Dayside

ONITORING OF IO’S DAYSIDE   CTIVITY ID: 11INCHEMIS04-
START TIME: 97-312/03:29:16.999

Activity ID: Orbit 11 Target I Inst N OAPEL CHEMIS SeqNo 04 -

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

Time System CDS   Load ID   Calendar Date 11/08/97 Week 45

Start	IEE+CDS 00000221:00:0	97-312/03:29:16.999	IEE+000/03:43:27.333
End	IEE+CDS 00000227:00:0	97-312/03:35:20.999	IEE+000/03:49:31.333
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label   11INCHEMIS04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	156	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Dayside monitoring covering wide range of longitudes to look for chemical changes (e.g. so2 distribution) at resolutions better than ~800km/nimsel (most observations will have resolutions between 120 and 400 km/nimsel).

Data Returned

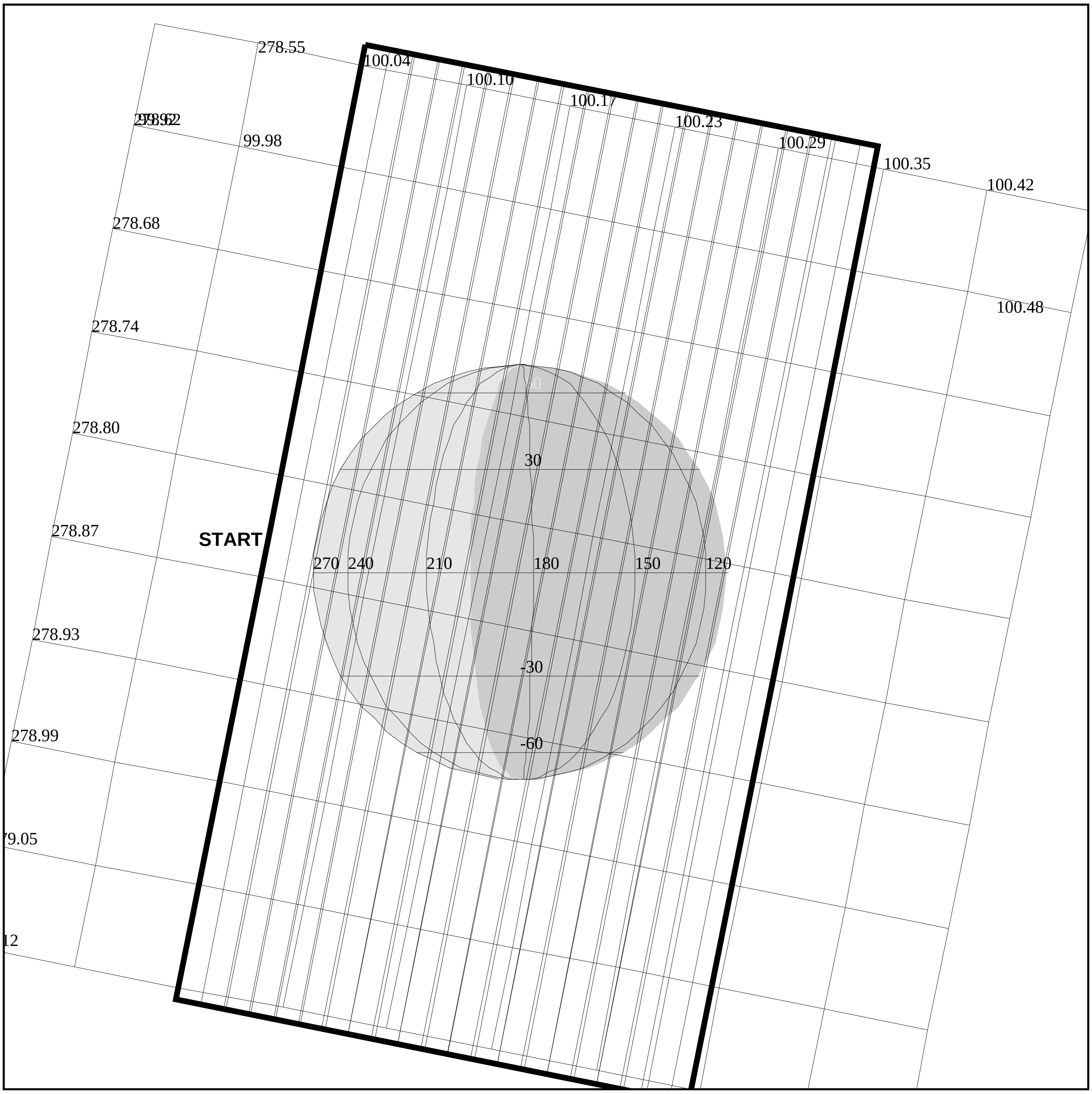
Design Detail

Partial or full disk mosaic 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, 360 wavelengths.
Tracks used per orbit: 0.05 to 0.42.
Bits to ground per orbit: 0.3 to 2.2 Mbits.
Record Mode = LPU
Gain State = 2

Long Map (LM), Gain 2, Grating Start 0, LPU, E11ILM243C, E11ILM228C

Galileo Activity Plan Form   09/25/97 15:50:04   rev 6/95



165FM:TT= 0 TMC= 1 C= -2.50 XC= 0.00 BS= 0/4097 TC= 3
A= 364 pD= 512 SR=17.450 RA50= 66.65 DEC50= 23.79 cone=100.05 clock=278.83
117FM:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/4097
1:#s= 1 Cs= 5.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 512 rD= 2

11INTHRMAL04

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11INTHRMAL04

TARGET BODY : IO

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:IEE 97-311/23:45:49.666 +CDS 230:00:0

OBSERVATION:11INTHRMAL04

THINNING:NIM 1

BODY PLOT TIME:TARGET-TIME D= 512 S= 0.400

DESCRIP:Monitoring_Of_Io_Nightside

MONITORING OF IO'S NIGHTSIDE — ACTIVITY ID: 11INTHRMAL04- — START TIME: 97-312/03:35:20.999

Activity ID: Orbit 11 Target I Inst N OAPEL THRMAL SeqNo 04 -

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

Time System	CDS	Load ID		Calendar Date	11/08/97	Week	45

Start	IEE+CDS 00000227:00:0	97-312/03:35:20.999	IEE+000/03:49:31.333
End	IEE+CDS 00000234:00:0	97-312/03:42:25.666	IEE+000/03:56:36.000
Duration	00000007:00:0	000/00:07:04.667	000/00:07:04.667

Top Label 11INTHRMAL04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	154	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

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

Data Returned

Design Detail

Partial or full disk mosaics, within C/A + or - 32 hours in all orbits. High priority orbits are G1, C3 and C10 because these have the highest longitudinal coverage and orbits G7 and G8 because these have the best nighttime resolutions for Loki.

Instrument Mode: Long Map,
Number of Wavelengths: 228,
Tracks used per orbit: 0.01 to 0.1,
Bits to ground used per orbit: 0.01 to 0.5 Mbits.
Record mode = LPU, Nyquist sampling,
gain state = 4.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11ILMDRK243D, E11ILMDRK228D

Galileo Activity Plan Form 09/25/97 15:50:04 rev 6/95

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NIMS Real-Time Software Reload	ACTIVITY ID: 11NNRELOAD11- START TIME: 97-312/04:47:08.399

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 11 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-SWG/R.	Team	NIMS	Working Group	SWG

Time System CDS Load ID Calendar Date 11/08/97 Week 45

Start	JEE+CDS 00001667:00:0	97-312/04:47:08.399	JEE+001/04:05:31.333
End	JEE+CDS 00001677:00:0	97-312/04:57:15.066	JEE+001/04:15:38.000
Duration	00000010:00:0	000/00:10:06.667	000/00:10:06.667

Top Label 11NNRELOAD11-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor
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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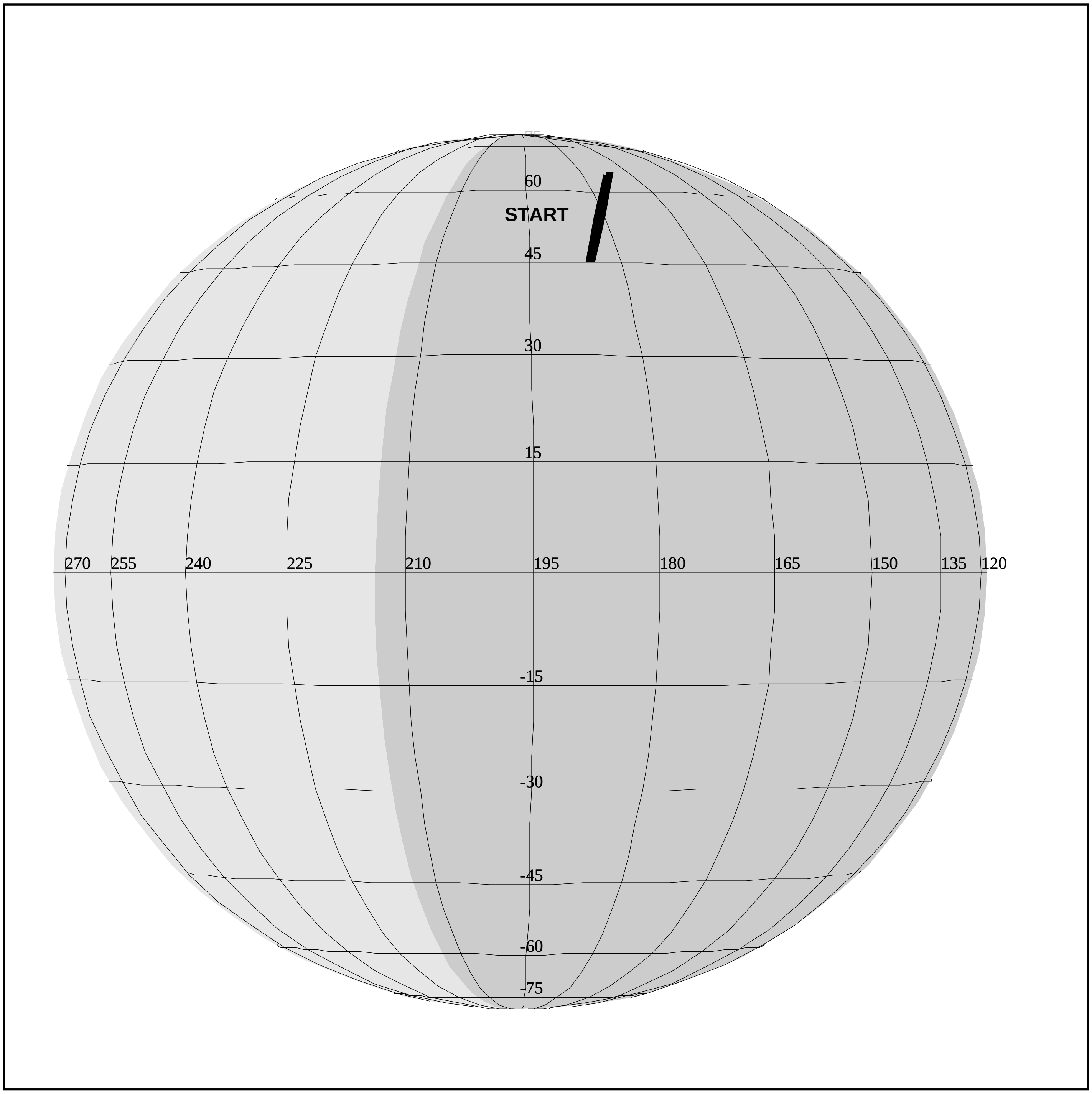


165AV:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/8475 TC= 1(54 181)
A= 364 pD= 2912 SR=17.450 RA50= 68.67 DEC50= 26.50 cone= 97.40 clock=276.89

11JNAURVAR01

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JUAURVAR01

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 7**

START:JEE 97-311/00:41:37.066 +CDS 1678:00:0 **BODY PLOT TIME:TARGET-TIME D= 2912 S= 0.900**

OBSERVATION:11JUAURVAR01 **DESCRIP:Aurora variability**

NIMS Aurora Observation	ACTIVITY ID: 11JNAURVAR01+
	START TIME: 97-312/04:57:15.066

Activity ID: Orbit 11 Target J Inst N OAPEL AURVAR SeqNo 01 +

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

Time System	CDS	Load ID		Calendar Date	11/08/97	Week	45

Start	JEE+CDS 00001677:00:0	97-312/04:57:15.066	JEE+001/04:15:38.000
End	JEE+CDS 00001694:00:0	97-312/05:14:26.399	JEE+001/04:32:49.333
Duration	00000017:00:0	000/00:17:11.333	000/00:17:11.333

Top Label 11JNAURVAR01+
Bottom Label

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

Observation Objective

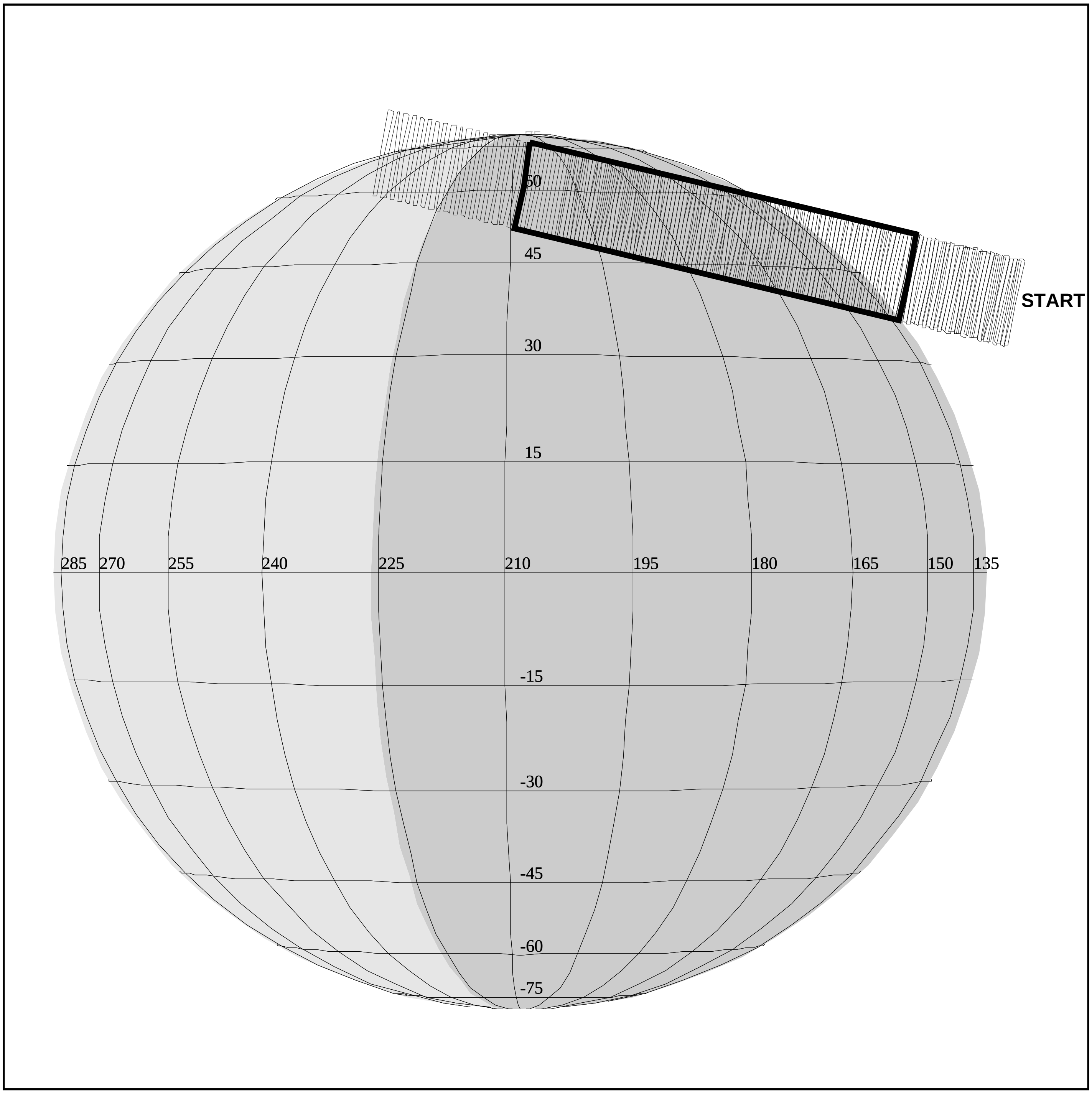
NIMS Aurora ride-along observation with UVS.

Data Returned

Design Detail

Instrument mode = LM

Long Map (LM), Gain 4, Grating Start 0, LPU, B_JAU243, B_JAU40A



165AX:TT= 0 TMC= 1 C= 50.00 XC= -42.00 BS= 0/2115 TC= 3
A= 182 pD= 0 SR=17.450 RA50= 66.28 DEC50= 25.58 cone= 99.74 clock=277.02
117AX:#SB= 2 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/2115
1:#s= 1 Cs= -84.30 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 4240 rD= 2
2:#s= 1 Cs= -60.00 XCs= 0.00 Cr= 74.00 XCr= 2.50 sD= 3010 rD= 28

11JNAURVAR02

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JUAURVAR02

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 +CDS 1698:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

OBSERVATION:11JUAURVAR02

DESCRIP:Aurora variability

NIMS Aurora Observation		ACTIVITY ID:	11JNAURVAR02+
		START TIME:	97-312/05:18:29.066

Activity ID: Orbit 11 Target J Inst N OAPEL AURVAR SeqNo 02 +

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

Time System	CDS	Load ID		Calendar Date	11/08/97 Week 45

Start	JEE+CDS 1698:00:0	97-312/05:18:29.066	JEE+001/04:36:52.000
End	JEE+CDS 1738:00:0	97-312/05:58:55.732	JEE+001/05:17:18.666
Duration	00000040:00:0	000/00:40:26.666	000/00:40:26.666

Top Label   11JNAURVAR02+
Bottom Label

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

Observation Objective

NIMS Aurora ride-along observation with UVS.

Data Returned

Design Detail

Instrument mode = LM.

Center 1/2 of swath returned.

Long Map (LM), Gain 4, Grating Start 0, LPU, B_JAU243, B_JAU228

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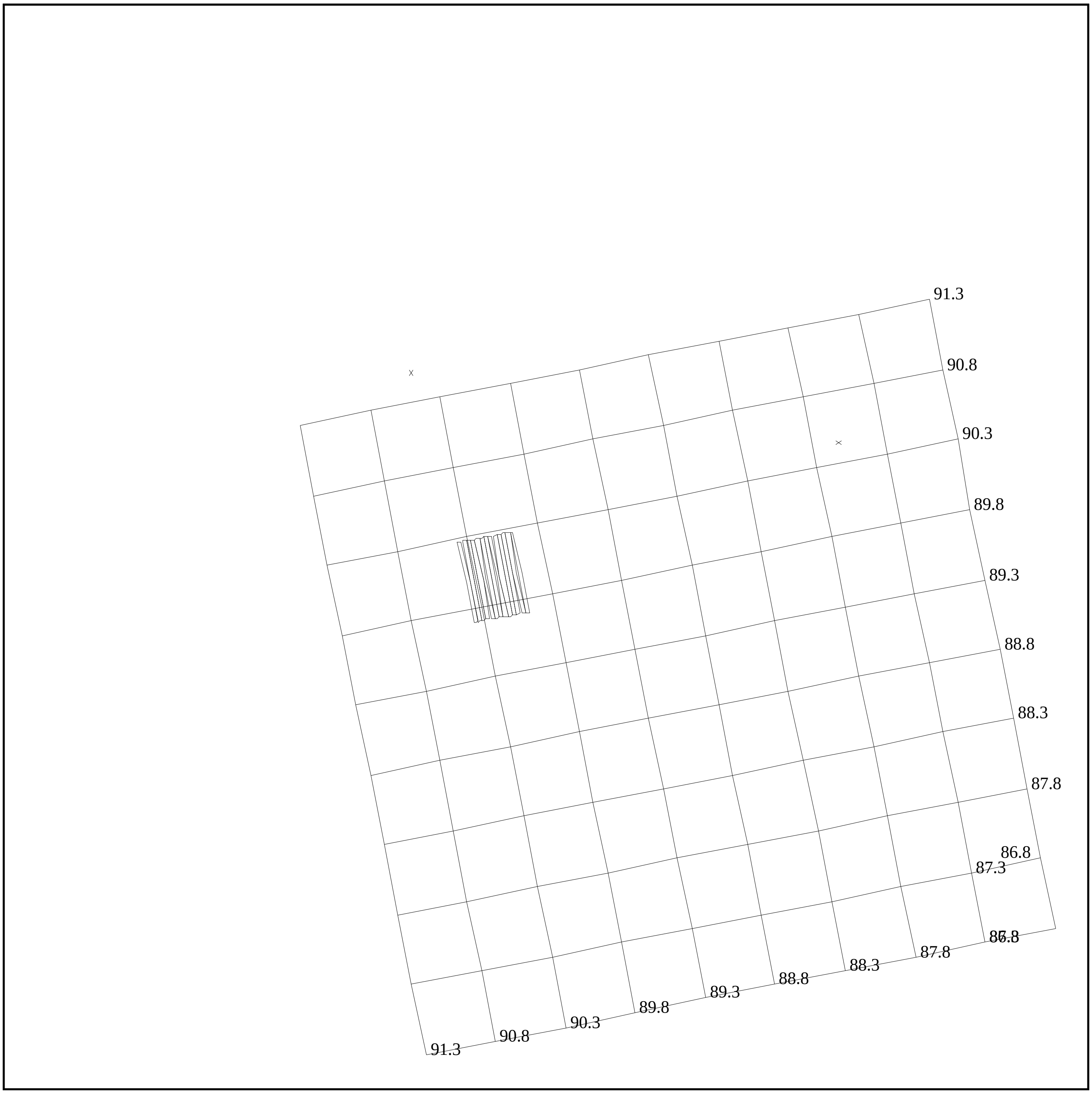


165EY:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/2509 TC= 2(90 90)
A= 728 pD= 0 SR=17.450 RA50=254.30 DEC50=-35.38 cone= 90.00 clock= 90.00
117EY:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2509
1:#s= 1 Cs= 6.40 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 182 rD= 2

11HNDARK__04

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11HNDARK__04

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 +CDS 1865:00:0

OBSERVATION:11HNDARK__04

THINNING:NIM 2

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

DESCRIP:NIMS_Dark_Observation

NIMS Dark Observation

ACTIVITY ID: 11HNDARK__04-
START TIME: 97-312/08:02:17.066

Activity ID: Orbit 11 Target H Inst N OAPEL DARK__ SeqNo 04 -

Title	NIMS Dark Observation			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date 11/08/97	Week 45

Start	JEE+CDS 00001860:00:0	97-312/08:02:17.066	JEE+001/07:20:40.000
End	JEE+CDS 00001867:00:0	97-312/08:09:21.732	JEE+001/07:27:44.666
Duration	00000007:00:0	000/00:07:04.666	000/00:07:04.666

Top Label 11HNDARK__04-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	100	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

NIMS dark observation.

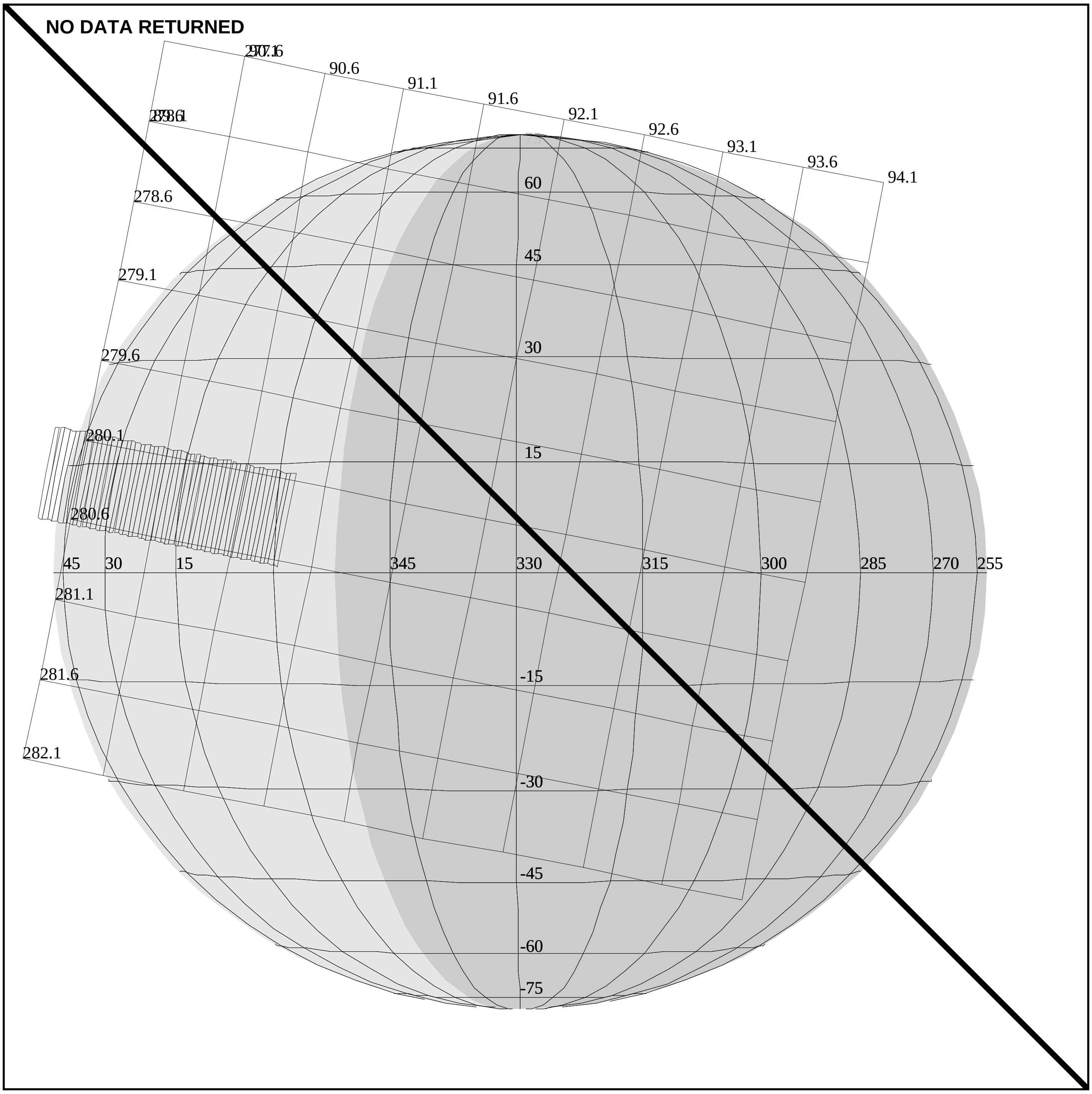
Obtain 1 Rim of dark sky data.

Data Returned

Design Detail

Sit and stare design, target to dark-sky and remain there for 1 Rim.

Long Map (LM), Gain 4, Grating Start 0, LPU, E11DRK252, E11DRK32



165FP:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/9607 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 78.31 DEC50= 25.64 cone= 89.40 clock=280.31
117FP:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9607
1:#s= 1 Cs= 26.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 728 rD= 2

11JNBRG11401

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG11401

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 +CDS 1904:00:0

OBSERVATION:11JNBRG11401

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

DESCRIP:BROWN_BARGE_OBS_114_DEG_PHASE

Brown Barge Obs 114 deg phase	ACTIVITY ID: 11JNBRG11401- START TIME: 97-312/08:41:43.066

Activity ID: Orbit 11 Target J Inst N OAPEL BRG114 SeqNo 01 -

Title	Brown Barge Obs 114 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/08/97 Week 45

Start	JEE+CDS 00001899:00:0	97-312/08:41:43.066	JEE+001/08:00:06.000
End	JEE+CDS 00001908:00:0	97-312/08:50:49.066	JEE+001/08:09:12.000
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label 11JNBRG11401-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

First of four OAPels constituting observations of the Brown Barge feature at 114 degrees phase.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 19.8 Rj, NIMS IFOV = 680km. Nominal incidence angel is 35 degrees, emission angle is 83 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

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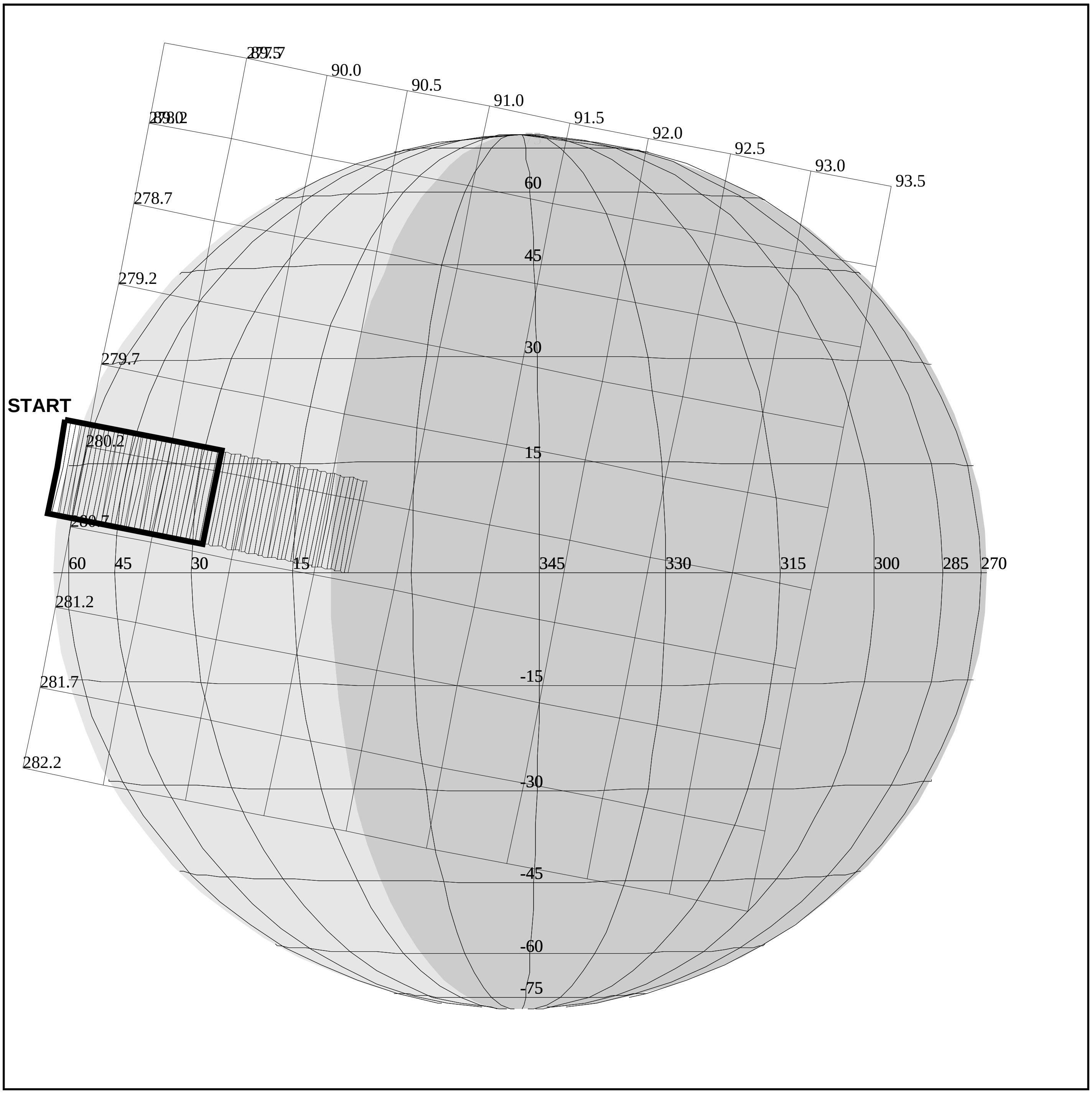

165FQ:TT= 0 TMC= 1 C= -4.50 XC= 0.00 BS= 0/5067 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 78.89 DEC50= 25.71 cone= 88.88 clock=280.39
117FQ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/5067
1:#s= 1 Cs= 33.10 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 910 rD= 2

11JNBRG11402

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG11402

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 +CDS 1934:00:0

OBSERVATION:11JNBRG11402

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

DESCRIP:BROWN_BARGE_OBS_114_DEG_PHASE

Brown Barge Obs 114 deg phase	ACTIVITY ID:	11JNBRG11402-
	START TIME:	97-312/09:12:03.066

Activity ID: Orbit 11 Target J Inst N OAPEL BRG114 SeqNo 02 -

Title	Brown Barge Obs 114 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/08/97	Week	45

Start	JEE+CDS 00001929:00:0	97-312/09:12:03.066	JEE+001/08:30:26.000
End	JEE+CDS 00001939:00:0	97-312/09:22:09.732	JEE+001/08:40:32.666
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label 11JNBRG11402-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of four OAPels constituting observations of the Brown Barge feature at 114 degrees phase.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 19.8 Rj, NIMS IFOV = 70km. Nominal incidence is 50 degrees, emission angle is 66 degrees.

Return first half of Swath.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

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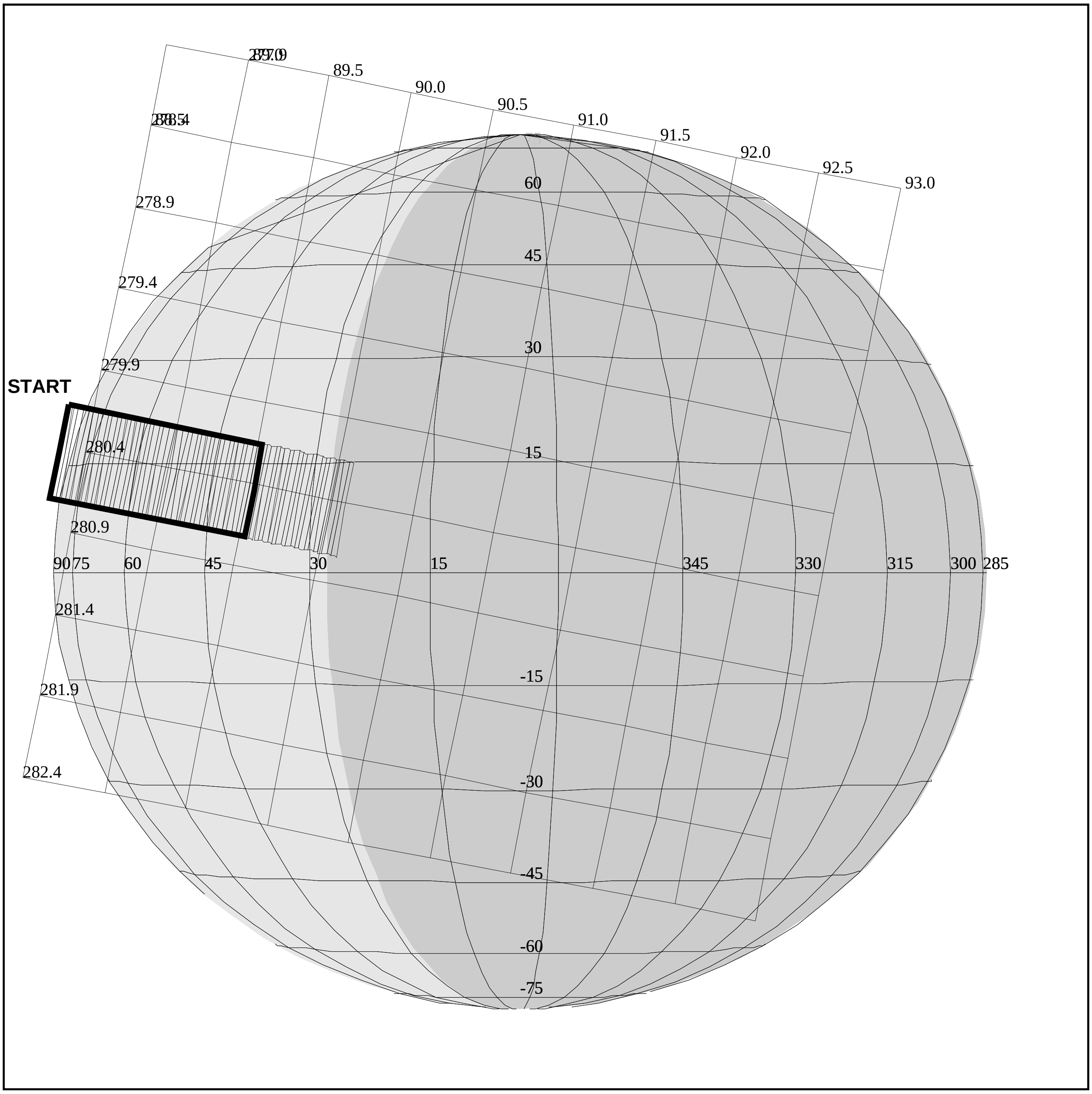


165FR:TT= 0 TMC= 1 C= -12.00 XC= 0.00 BS= 0/0345 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 79.48 DEC50= 25.82 cone= 88.34 clock=280.41
117FR:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0345
1:#s= 1 Cs= 31.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 852 rD= 2

11JNBRG11403

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG11403

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 +CDS 1963:00:0

OBSERVATION:11JNBRG11403

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

DESCRIP:BROWN_BARGE_OBS_114_DEG_PHASE

Brown Barge Obs 114 deg phase	ACTIVITY ID:	11JNBRG11403-
	START TIME:	97-312/09:41:22.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG114 SeqNo 03 -

Title	Brown Barge Obs 114 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/08/97	Week	45

Start	JEE+CDS 00001958:00:0	97-312/09:41:22.399	JEE+001/08:59:45.333
End	JEE+CDS 00001970:00:0	97-312/09:53:30.399	JEE+001/09:11:53.333
Duration	00000012:00:0	000/00:12:08.000	000/00:12:08.000

Top Label   11JNBRG11403-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Third of four OAPels constituting observations of the Brown Barge feature at 114 degrees phase.

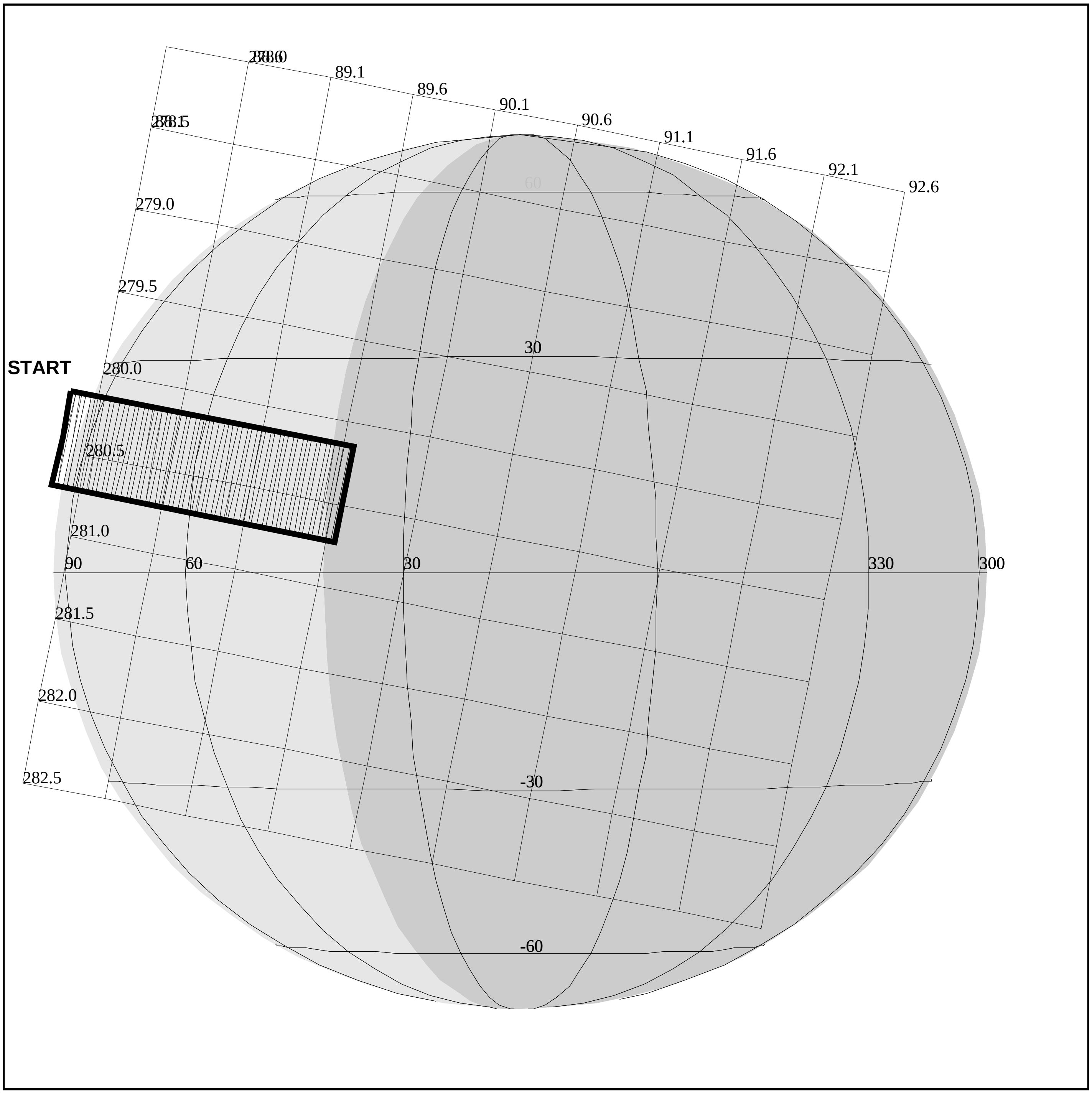
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 19.7 Rj, NIMS IFOV = 700km. Nominal incidence angle is 67.3 degrees, emission angle is 50.3 degrees.

First 2/3 of swath returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A



165FS:TT= 0 TMC= 1 C= -19.20 XC= 0.00 BS= 0/3985 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 79.88 DEC50= 25.92 cone= 87.97 clock=280.41
117FS:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3985
1:#s= 1 Cs= 30.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 840 rD= 2

11JNBRG11404

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG11404

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 1983:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG11404 **DESCRIP:BROWN_BARGE_OBS_114_DEG_PHASE**

Brown Barge Obs 114 deg phase	ACTIVITY ID:	11JNBRG11404-
	START TIME:	97-312/10:01:35.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRG114 SeqNo 04 -

Title	Brown Barge Obs 114 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/08/97	Week	45

Start	JEE+CDS 00001978:00:0	97-312/10:01:35.732	JEE+001/09:19:58.666
End	JEE+CDS 00001990:00:0	97-312/10:13:43.732	JEE+001/09:32:06.666
Duration	00000012:00:0	000/00:12:08.000	000/00:12:08.000

Top Label	11JNBRG11404-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fourth of four OAPels constituting observations of the Brown Barge feature at 114 degrees phase.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 19.8 Rj, NIMS IFOV = 700km. Nominal incidence angle is 80 degrees, emission angle is 39 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

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NIMS Real-Time Software Reload		ACTIVITY ID:	11NNRELOAD13-
		START TIME:	97-312/18:24:07.066

Activity ID: Orbit 11 Target N Inst N OAPEL RELOAD SeqNo 13 -

Title	NIMS Real-Time Software Reload			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/08/97 Week 45

Start	JEE+CDS 2475:00:0	97-312/18:24:07.066	JEE+001/17:42:30.000
End	JEE+CDS 2485:00:0	97-312/18:34:13.732	JEE+001/17:52:36.666
Duration	00000010:00:0	000/00:10:06.666	000/00:10:06.666

Top Label	11NNRELOAD13-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	150	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

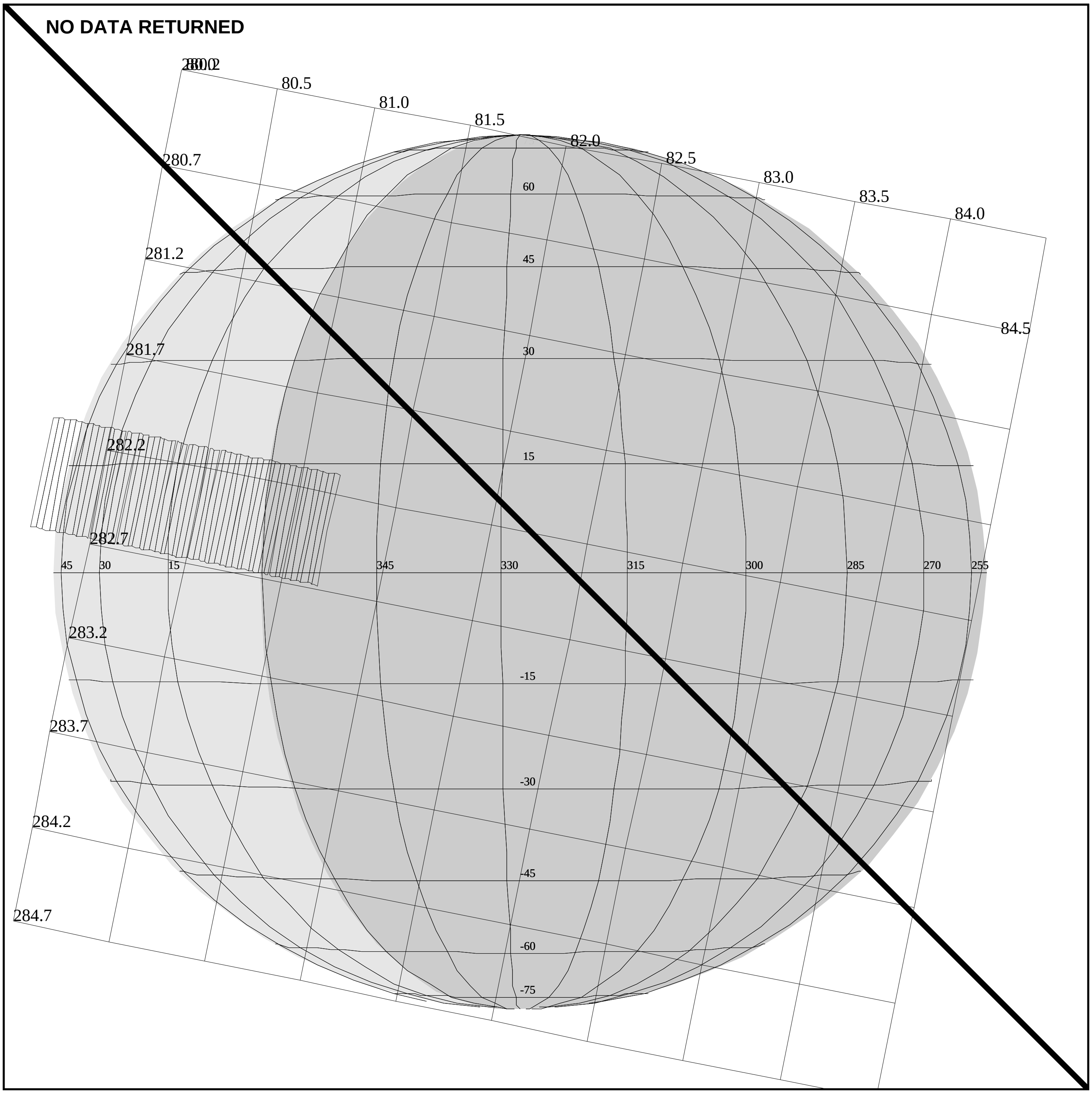
Reload NIMS software to prevent loss of science observations.
These loads are placed strtegicaly to protect high priority science.

Memory reload from CDS to NIMS and restart.
Diagnostic Checksum, Processor Halt, Memory Reload from CDS,
Instrument Restart, and Operational Mode Set.

Design Detail

Use a standard set of commands to halt the instrument, load the software and reinitialize the instrument.

6CKSUM - Check Sum NIMS RAM 1000 - 14BC
37PL - Halt NIMS Processor
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.



165FU:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/9353 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 89.28 DEC50= 25.81 cone= 79.74 clock=282.38
117FU:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/9353
1:#s= 1 Cs= 26.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 728 rD= 2

11JNBRG12501

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG12501

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 +CDS 2507:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

OBSERVATION:11JNBRG12501

DESCRIP:BROWN_BARGE_OBS_125_DEG_PHASE

Brown Barge Obs 125 deg phase	ACTIVITY ID: 11JNBRG12501- START TIME: 97-312/18:52:25.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRG125 SeqNo 01 -

Title	Brown Barge Obs 125 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/08/97 Week 45

Start	JEE+CDS 2503:00:0	97-312/18:52:25.732	JEE+001/18:10:48.666
End	JEE+CDS 2511:00:0	97-312/19:00:31.066	JEE+001/18:18:54.000
Duration	00000008:00:0	000/00:08:05.334	000/00:08:05.334

Top Label 11JNBRG12501-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	153	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

First of four OAPels constituting observations of the Brown Barge feature at 125 degrees phase.

No Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 23.9 Rj, NIMS IFOV = 830km. Nominal incidence angle is 44 degrees, emission angle is 83 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

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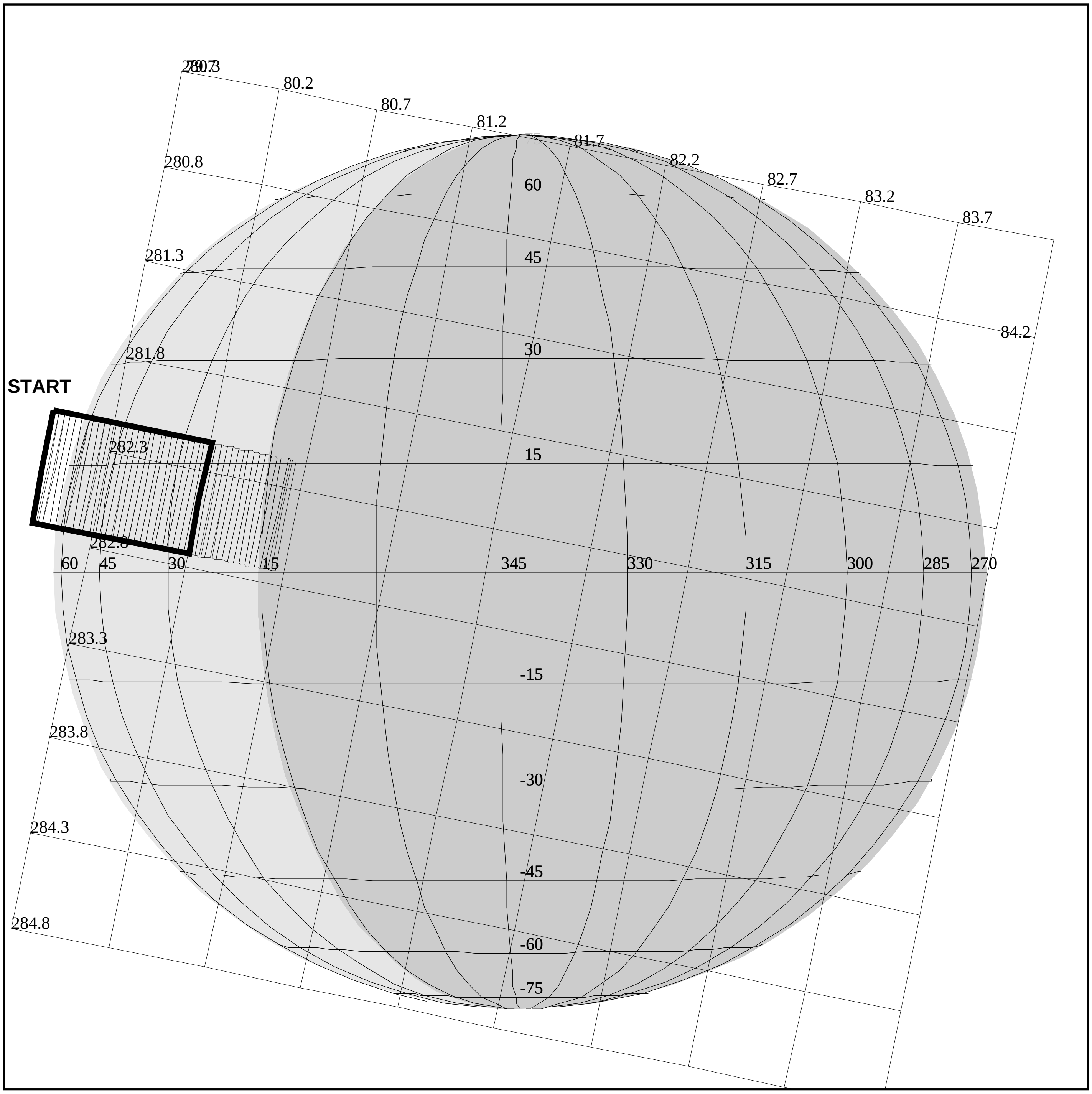


165FV:TT= 0 TMC= 1 C= -4.00 XC= 0.00 BS= 0/3903 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 89.65 DEC50= 25.83 cone= 79.41 clock=282.42
117FV:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/3903
1:#s= 1 Cs= 22.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 608 rD= 2

11JNBRG12502

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG12502

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 +CDS 2532:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

OBSERVATION:11JNBRG12502

DESCRIP:BROWN_BARGE_OBS_125_DEG_PHASE

Brown Barge Obs 125 deg phase	ACTIVITY ID: 11JNBRG12502- START TIME: 97-312/19:16:41.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRG125 SeqNo 02 -

Title	Brown Barge Obs 125 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/08/97 Week 45

Start	JEE+CDS 00002527:00:0	97-312/19:16:41.732	JEE+001/18:35:04.666
End	JEE+CDS 00002538:00:0	97-312/19:27:49.066	JEE+001/18:46:12.000
Duration	00000011:00:0	000/00:11:07.334	000/00:11:07.334

Top Label 11JNBRG12502-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of four OAPels constituting observations of the Brown Barge feature at 125 degrees phase.

Data Returned

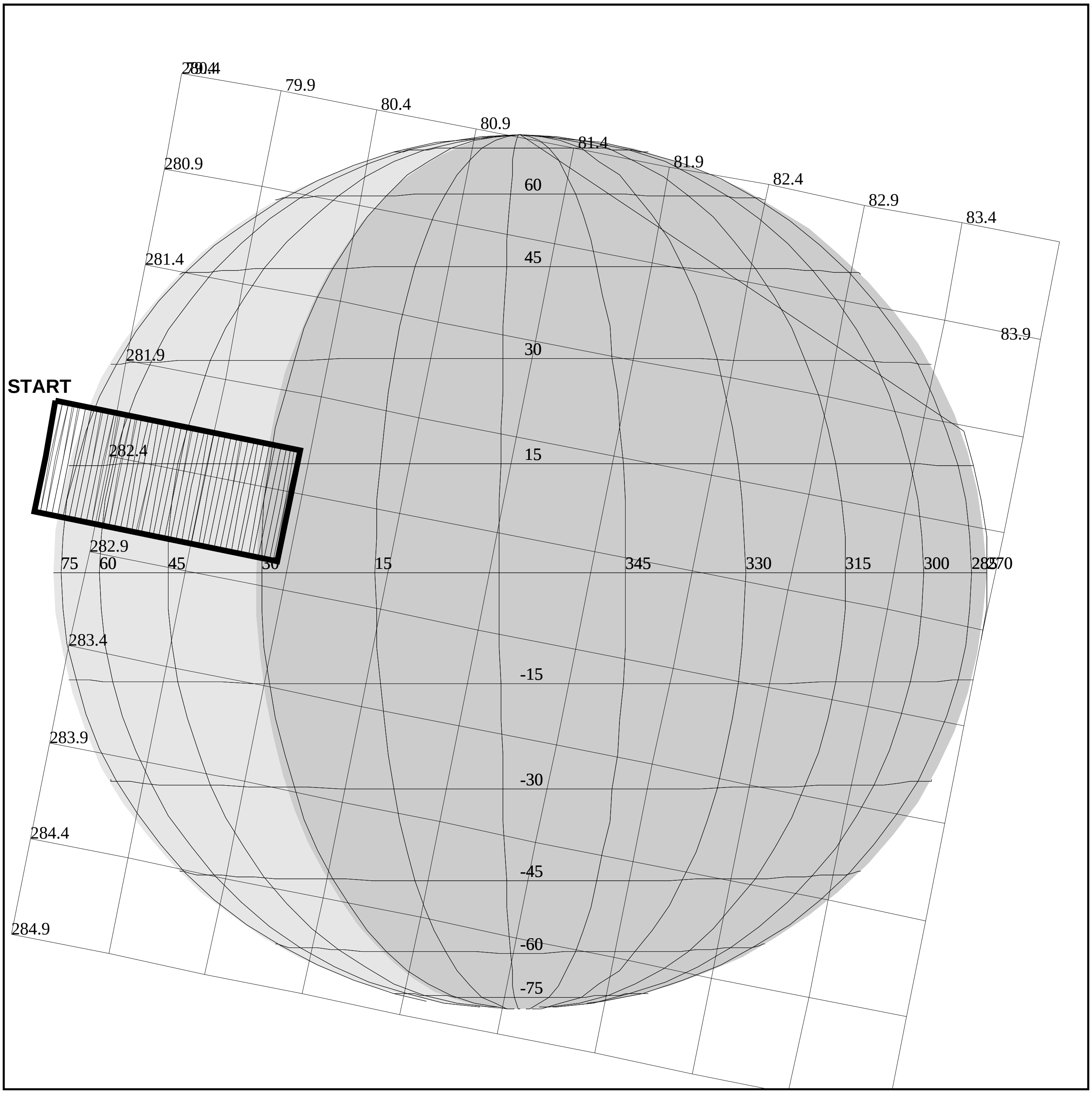
Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 23.9 Rj, NIMS IFOV = 850km. Nominal incidence angle is 55 degrees, emission angle is 71 degrees.

First 2/3 of swath returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:05 rev 6/95



165FW:TT= 0 TMC= 1 C= -8.50 XC= 0.00 BS= 0/8453 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 90.01 DEC50= 25.87 cone= 79.08 clock=282.44
117FW:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8453
1:#s= 1 Cs= 22.00 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 608 rD= 2

11JNBRG12503

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG12503

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 2557:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG12503 **DESCRIP:BROWN_BARGE_OBS_125_DEG_PHASE**

Brown Barge Obs 125 deg phase	ACTIVITY ID:	11JNBRG12503-
	START TIME:	97-312/19:41:58.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG125 SeqNo 03 -

Title	Brown Barge Obs 125 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/08/97	Week	45

Start	JEE+CDS 00002552:00:0	97-312/19:41:58.399	JEE+001/19:00:21.333
End	JEE+CDS 00002561:00:0	97-312/19:51:04.399	JEE+001/19:09:27.333
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label 11JNBRG12503-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Third of four OAPels constituting observations of the Brown Barge feature at 125 degrees phase.

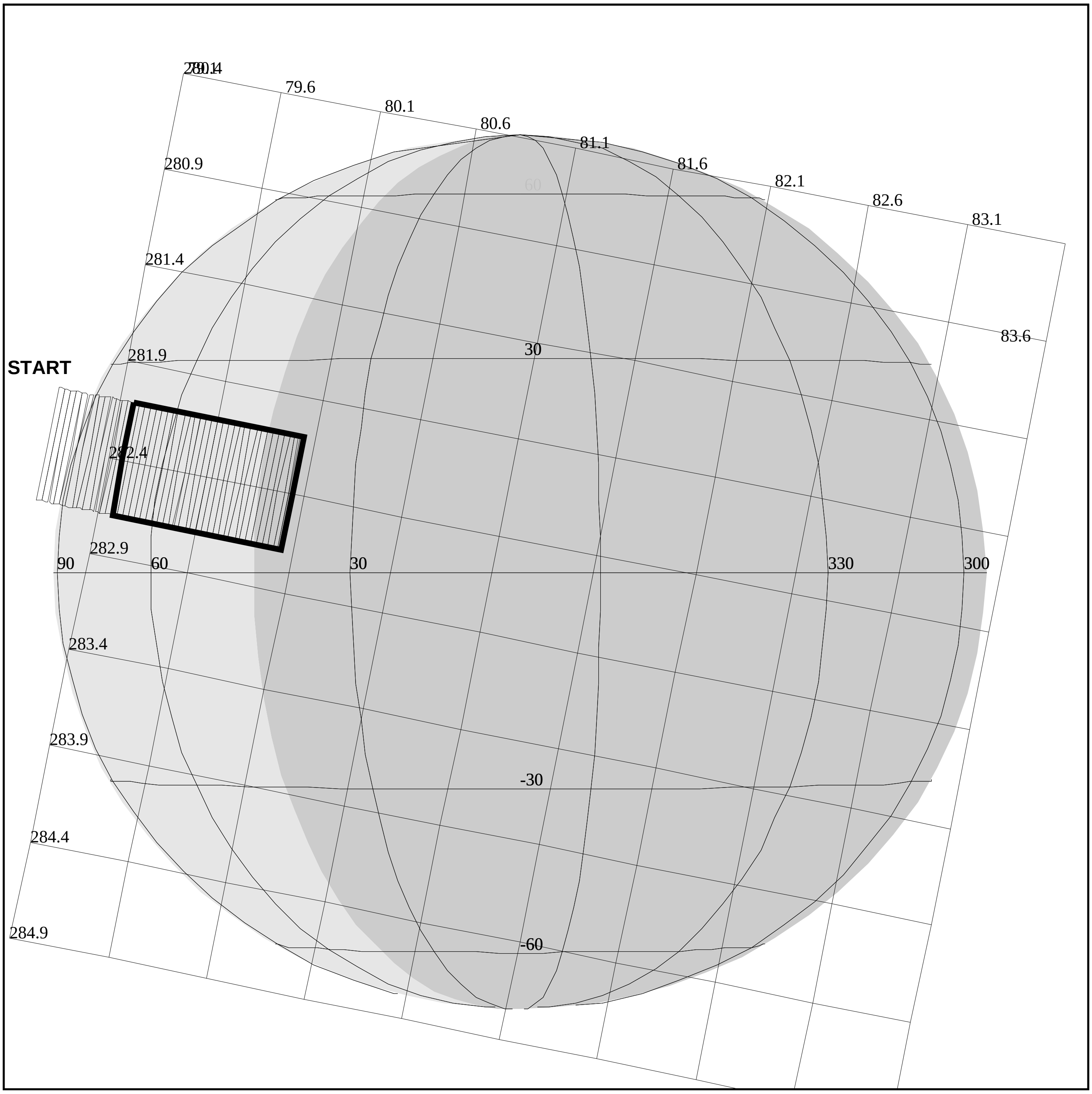
Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 23.8 Rj, NIMS IFOV = 850km. Nominal incidence angle is 70 degrees, emission angle is 56 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:05 rev 6/95



165FX:TT=   0 TMC= 1 C= -13.80 XC=   0.00 BS= 0/2093 TC= 1(13.5   52   )
A= 728 pD=   0 SR=17.450 RA50= 90.29 DEC50= 25.92 cone= 78.82 clock=282.43
117FX:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2093
1:#s= 1 Cs=   22.00 XCs=   0.00 Cr=   0.00 XCr=   0.00 sD=   608 rD=   2

11JNBRG12504

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG12504

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 2577:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG12504 **DESCRIP:BROWN_BARGE_OBS_125_DEG_PHASE**

Brown Barge Obs 125 deg phase	ACTIVITY ID: 11JNBRG12504- START TIME: 97-312/20:02:11.732

Activity ID: Orbit 11 Target J Inst N OAPEL BRG125 SeqNo 04 -

Title	Brown Barge Obs 125 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/08/97	Week	45

Start	JEE+CDS 00002572:00:0	97-312/20:02:11.732	JEE+001/19:20:34.666
End	JEE+CDS 00002581:00:0	97-312/20:11:17.732	JEE+001/19:29:40.666
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label	11JNBRG12504-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fourth of four OAPels constituting observations of the Brown Barge feature at 125 degrees phase.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. Range is 13.8 Rj, NIMS IFOV = 850km. Nominal incidence angle is 82.5 degrees, emission angle is 44.5 degrees.

First Rim of swath lost in playback gap.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

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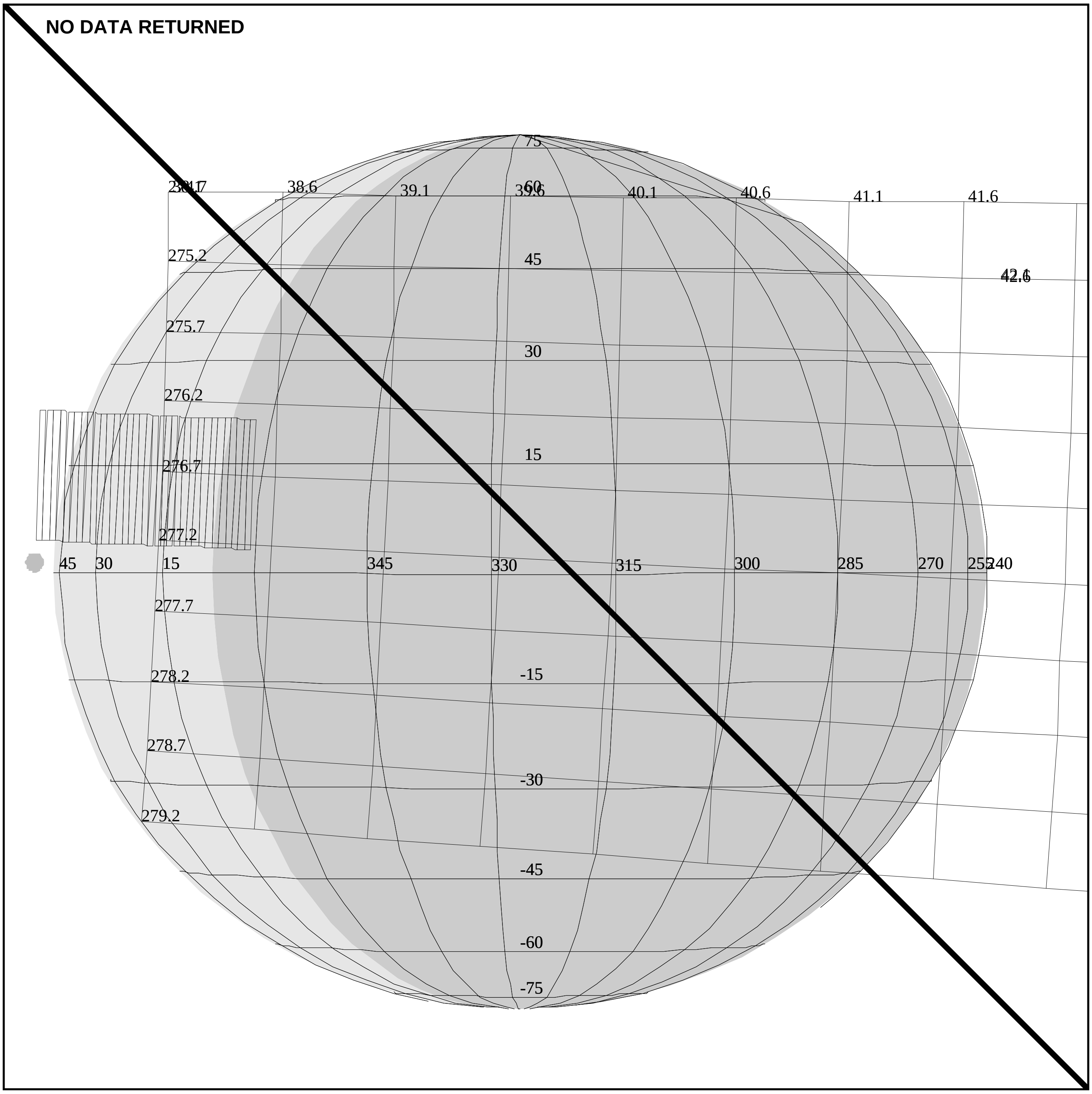


165FZ:TT= 0 TMC= 1 C= -2.00 XC= 0.00 BS= 0/8371 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 97.10 DEC50= 25.42 cone= 37.58 clock=276.81
117FZ:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/8371
1:#s= 1 Cs= 16.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 456 rD= 2

11JNBRG13501

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG13501

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 +CDS 3106:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

OBSERVATION:11JNBRG13501

DESCRIP:ROWN_BARGE_OBS_135_DEG_PHASE

Brown Barge Obs 135 deg phase	ACTIVITY ID:	11JNBRG13501-
	START TIME:	97-313/04:57:04.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG135 SeqNo 01 -

Title	Brown Barge Obs 135 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/09/97	Week	45

Start	JEE+CDS 00003101:00:0	97-313/04:57:04.399	JEE+002/04:15:27.333
End	JEE+CDS 00003109:00:0	97-313/05:05:09.732	JEE+002/04:23:32.666
Duration	00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label	11JNBRG13501-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	153	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

First of four OAPels constituting observations of the Brown Barge feature at 135 degrees phase.

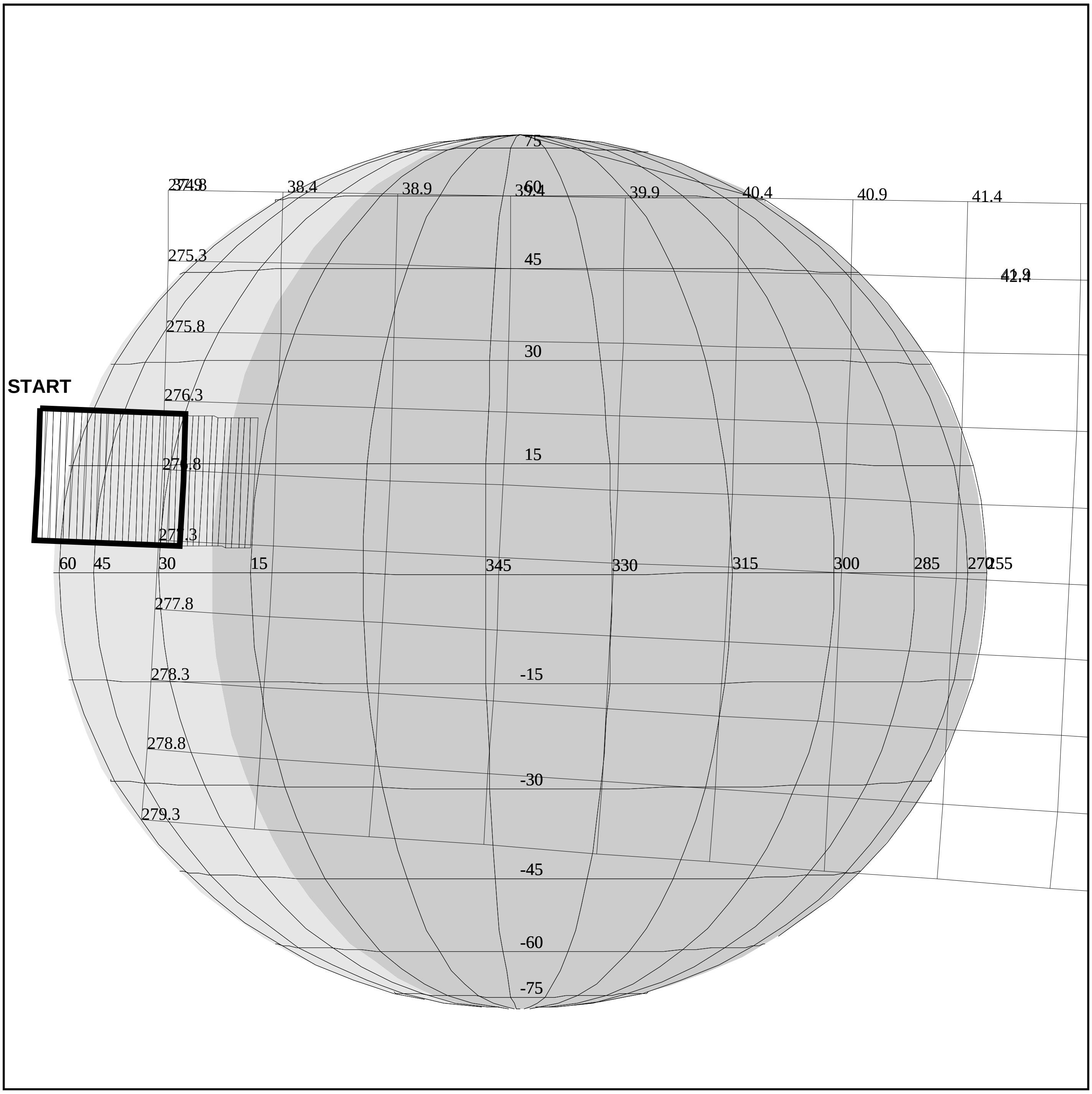
No Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. NIMS IFOV = 1000km. Nominal incidence angle = 48 degrees, emission angle = 85 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form   09/25/97 15:50:06   rev 6/95



165KA:TT= 0 TMC= 1 C= -3.50 XC= 0.00 BS= 0/2739 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 97.37 DEC50= 25.41 cone= 37.34 clock=276.83
117KA:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/2739
1:#s= 1 Cs= 16.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 456 rD= 2

11JNBRG13502

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG13502

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

START:JEE 97-311/00:41:37.066 +CDS 3130:00:0

OBSERVATION:11JNBRG13502

THINNING:NIM 2

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

DESCRIP:ROWN_BARGE_OBS_135_DEG_PHASE

Brown Barge Obs 135 deg phase **ACTIVITY ID: 11JNBRG13502-**
START TIME: 97-313/05:21:20.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG135 SeqNo 02 -

Title	Brown Barge Obs 135 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/09/97 Week 45

Start	JEE+CDS 00003125:00:0	97-313/05:21:20.399	JEE+002/04:39:43.333
End	JEE+CDS 00003133:00:0	97-313/05:29:25.732	JEE+002/04:47:48.666
Duration	00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label 11JNBRG13502-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Second of four OAPels constituting observations of the Brown Barge feature at 135 degrees phase.

Data Returned

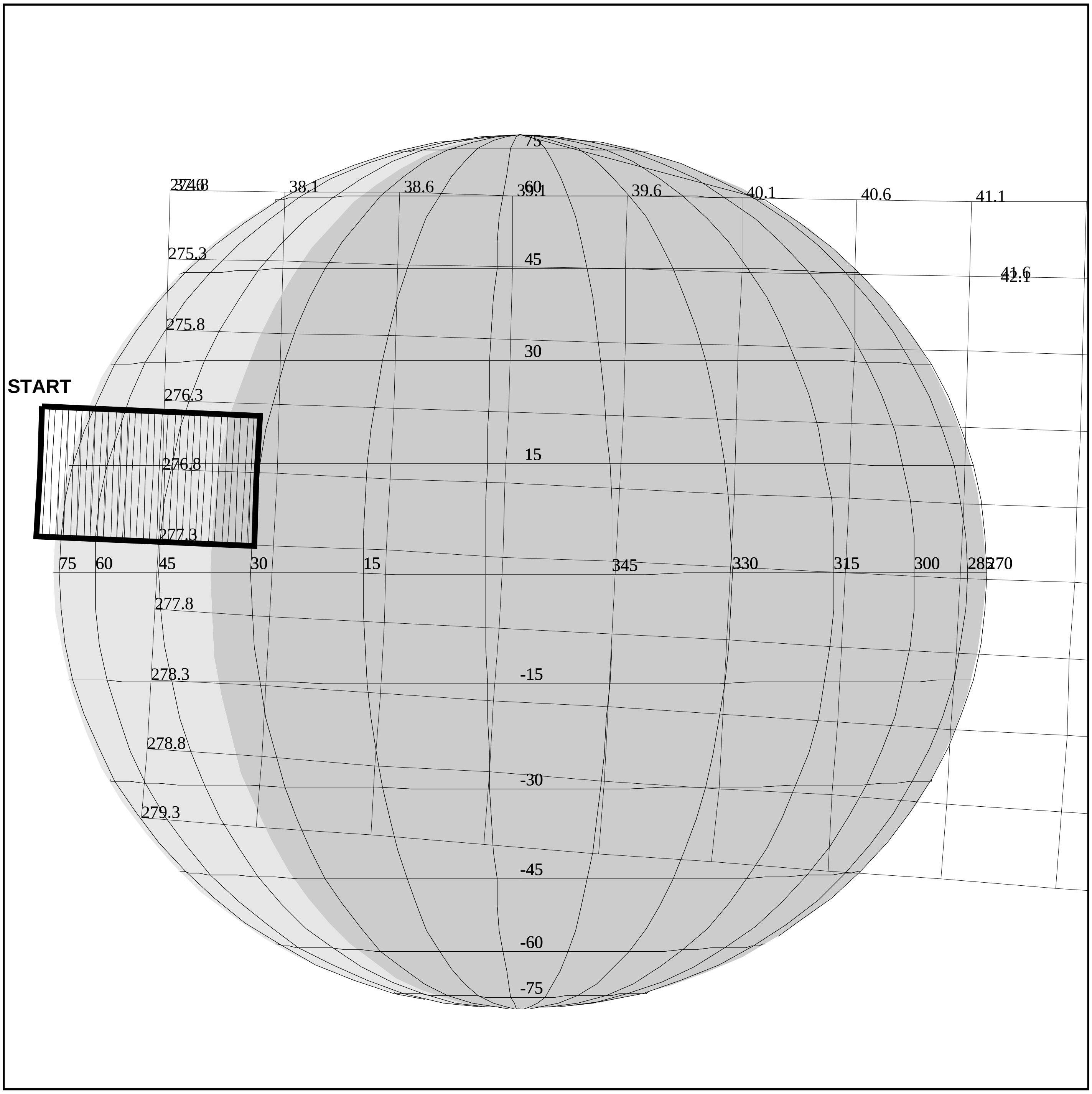
Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. NIMS IFOV = 1000km. Nominal incidence angle = 59 degrees, emission angle = 74 degrees.

First 2/3 of swath returned.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:06 rev 6/95



165KB:TT= 0 TMC= 1 C= -7.20 XC= 0.00 BS= 0/7289 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 97.64 DEC50= 25.40 cone= 37.10 clock=276.83
117KB:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/7289
1:#s= 1 Cs= 16.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 456 rD= 2

11JNBRG13503

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG13503

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 97-311/00:41:37.066 +CDS 3155:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:11JNBRG13503 **DESCRIP:ROWN_BARGE_OBS_135_DEG_PHASE**

Brown Barge Obs 135 deg phase	ACTIVITY ID: 11JNBRG13503- START TIME: 97-313/05:46:37.066

Activity ID: Orbit 11 Target J Inst N OAPEL BRG135 SeqNo 03 -

Title	Brown Barge Obs 135 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	11/09/97 Week 45

Start	JEE+CDS 00003150:00:0	97-313/05:46:37.066	JEE+002/05:05:00.000
End	JEE+CDS 00003158:00:0	97-313/05:54:42.399	JEE+002/05:13:05.333
Duration	00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label	11JNBRG13503-
Bottom Label	

Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

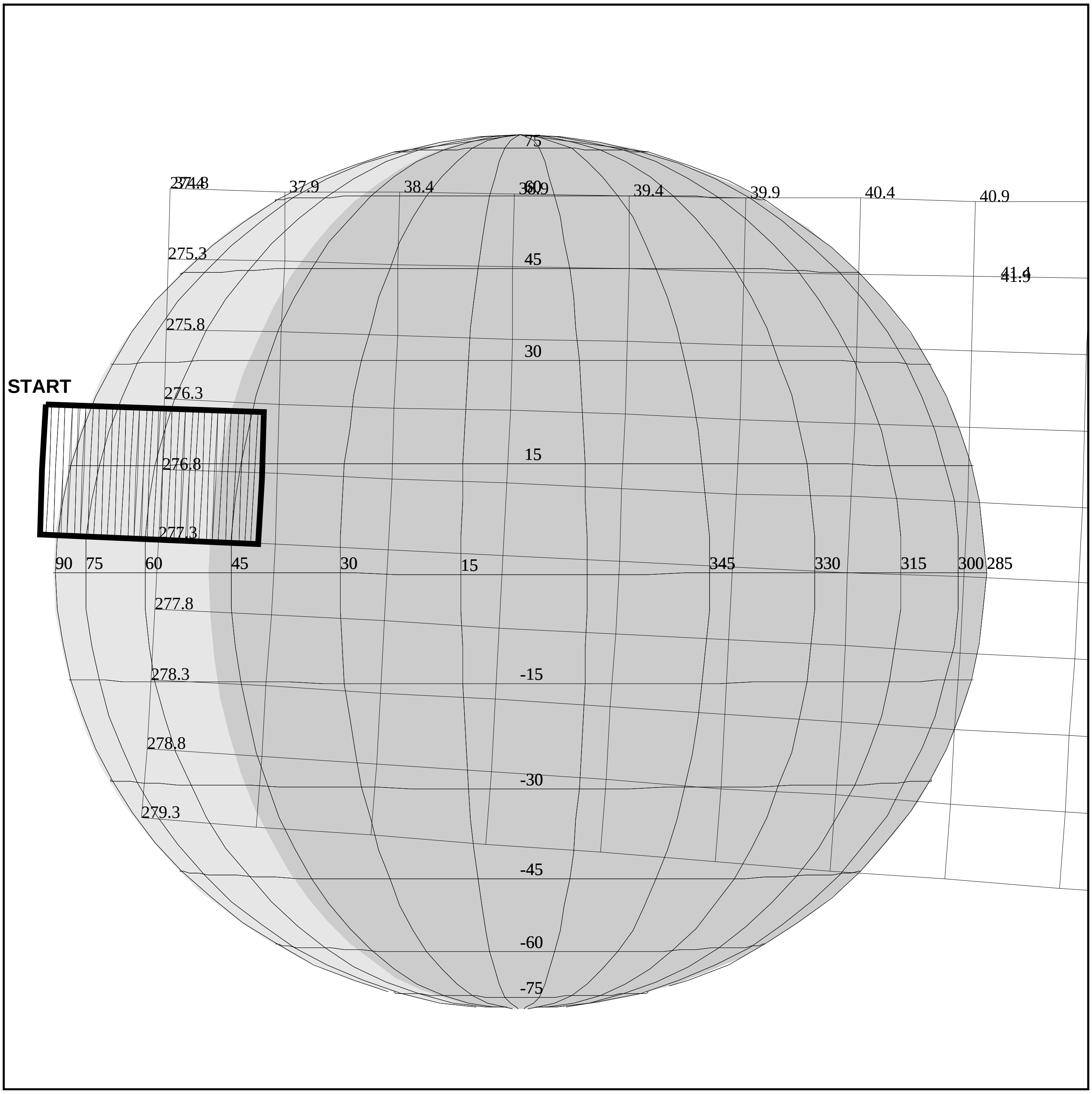
Third of four OAPels constituting observations of the Brown Barge feature at 135 degrees phase.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. NIMS IFOV = 1000km. Nominal incidence angle = 75.5 degrees, emission angle = 58 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A



165KC:TT= 0 TMC= 1 C= -11.50 XC= 0.00 BS= 0/0929 TC= 1(13.5 52)
A= 728 pD= 0 SR=17.450 RA50= 97.84 DEC50= 25.39 cone= 36.91 clock=276.83
117KC:#SB= 1 OR= 0.100 RR=12.000 BM=F RC= 1 BS= 0/0929
1:#s= 1 Cs= 16.50 XCs= 0.00 Cr= 0.00 XCr= 0.00 sD= 456 rD= 2

11JNBRG13504

TARGET G3.2 jdods: 9/17/1997 13:43: 4

FILE:P.11JNBRG13504

CENTRAL BODY:JUPITER

MINI:m.target

S/C EPH:/DATA/NAVIO/T-970801-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 97-311/00:41:37.066 +CDS 3175:00:0

BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900

OBSERVATION:11JNBRG13504

DESCRIP:BROWN_BARGE_OBS_135_DEG_PHASE

Brown Barge Obs 135 deg phase	ACTIVITY ID:	11JNBRG13504-
	START TIME:	97-313/06:06:50.399

Activity ID: Orbit 11 Target J Inst N OAPEL BRG135 SeqNo 04 -

Title	Brown Barge Obs 135 deg phase			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/09/97 Week 45

Start	JEE+CDS 00003170:00:0	97-313/06:06:50.399	JEE+002/05:25:13.333
End	JEE+CDS 00003178:00:0	97-313/06:14:55.732	JEE+002/05:33:18.666
Duration	00000008:00:0	000/00:08:05.333	000/00:08:05.333

Top Label 11JNBRG13504-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	143	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes

Observation Objective

Fourth of four OAPels constituting observations of the Brown Barge feature at 135 degrees phase.

Data Returned

Design Detail

Short map, Nyquist sampling, 25 colors. Location is 52 degrees West longitude, 14 degrees North latitude. Barge location has a large uncertainty of 40-65 degrees West longitude. NIMS IFOV = 1000km. Nominal incidence angle = 87.5 degrees, emission angle = 46 degrees.

Short Map (SM), Gain 2, Grating Start 1, LPU, E11JFT68C, E11JFT25A

Galileo Activity Plan Form 09/25/97 15:50:06 rev 6/95

NIMS Chopper Off		ACTIVITY ID:	11NNCHOPOF01-
		START TIME:	97-313/06:19:59.066

Activity ID: Orbit 11 Target N Inst N OAPEL CHOPOF SeqNo 01 -

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

Time System	CDS	Load ID	Calendar Date	11/09/97 Week	45

Start	EEE+CDS 3430:00:0	97-313/06:19:59.066	EEE+002/09:48:06.666
End	EEE+CDS 3436:00:0	97-313/06:26:03.066	EEE+002/09:54:10.666
Duration	00000006:00:0	000/00:06:04.000	000/00:06:04.000

Top Label   11NNCHOPOF01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	38	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

NIMS chopper turned off.

Design Detail

Galileo Activity Plan Form   09/25/97 15:50:06   rev 6/95

NIMS Real-Time RCT Calibration — ACTIVITY ID: 11NNRCTRLT01- — START TIME: 97-314/05:30:15.333

Activity ID: Orbit 11 Target N Inst N OAPEL RCTRLT SeqNo 01 -

Title	NIMS Real-Time RCT Calibration			Instrument	NIMS
Requestor	NIMS-AWG/K. BAINES	Team	NIMS	Working Group	AWG

Time System CDS Load ID Calendar Date 11/10/97 Week 45

Start	RTA+CDS 00000000:00:0	97-314/05:30:15.333	RTA+000/00:00:00.000
End	RTA+CDS 00000793:00:0	97-314/18:52:03.999	RTA+000/13:21:48.666
Duration	00000793:00:0	000/13:21:48.666	000/13:21:48.666

Top Label 11NNRCTRLT01-
Bottom Label

Plot Key	NIMS	Type	SCI		
CDS Bytes	400	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

This observation is a NIMS radiometric calibration using the RCT target.
The data will be used to calibrate the NIMS thermal detectors.
The calibration data will be returned using Real-time Telemetry

The NIMS OPCAL has been included in the RCT calibration for GEM.
Perform NIMS Optical Calibration to calibrate the NIMS grating.

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

Data Returned

Design Detail

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) Slew to Safe (cone = 153.0)
9) Long Map, gain state 4, ETB=OPCAL48.
10) Use 37IST to turn on OPCAL Lamp (two times).
11) Select NIMS Real Time 1 Rim OPCAL, 1 Rim Dark, 1 Rim OPCAL
12) Set NIMS to Safe Mode and turn off Chopper.
13) Resume Playback after using scan platform.

Long Map (LM), Gain 1, Grating Start 0, R/T, RCT252
Long Map (LM), Gain 4, Grating Start 0, R/T, OPCAL48

Galileo Activity Plan Form 09/25/97 15:50:06 rev 6/95