Chapter 5 - Detailed Observation Designs

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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 Software Reload	**ACTIVITY ID: 30NNECLPSE01-** **START TIME: 01-143/13:13:29.000**

Activity ID: Orbit 30 Target N Inst N OAPEL ECLPSE SeqNo 01 -

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

Time System	**CDS**	**Load ID**	**Calendar Date**	**05/23/00**	**Week 21**
Start	**IEE-CDS 00000000:00:0**	**01-143/13:13:29.000**		**IEE-000/00:00:00.000**	
End	**IEE-CDS 00000000:00:0**	**01-143/13:17:29.000**		**IEE-000/00:00:00.000**	
Duration	**00000000:00:0**	**000/00:04:00.000**		**000/00:00:00.000**	

Top Label	**30NNECLPSE01-**				
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

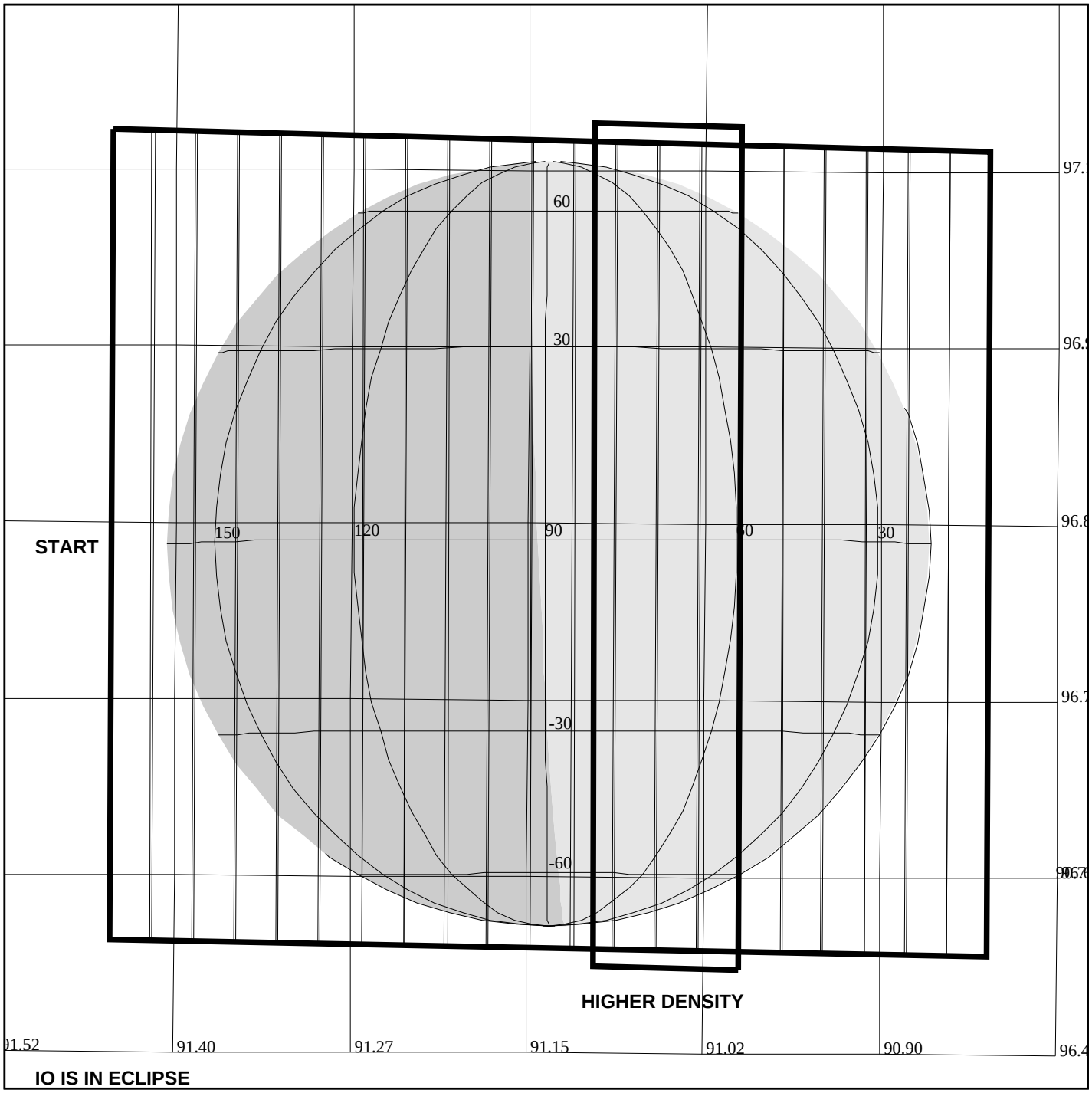
NIMS reload
Each NIMS GEM observation will have an instrument reload before the start of each observation. Each reload has its own OAPEL form, but only this first is included in the NIMSGUIDE. The NIMS C30 reload OAPELs are:

30NNECLPSE01, 30NNGLOBAL01, 30NNGLOBAL01, 30NNBARGEB01, 30NNHTSPOT02, 30NNHTSPOT03, 30NNWTOVAL01, 30NNBBARGE01, 30NNBBARGE02, 30NNHTSPOT01, 30NNGRWAKE01, 30NNGRWAKE02, 30NNGLOBAL01, 30NNGLOBAL02, 30NNGLOBAL03, 30NNFEATRE01, 30NNCTBRAN01, 30NNREGION01, 30NNREGION02, 30NNRELOAD01

Design Detail

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

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.



165DF:TT= 0 TMC= 1 C= 5.30 XC= 0.10 BS= 0/5471 TC= 3
A= 364 pD= 1080 SR=17.450 RA50=352.86 DEC50= -1.60 cone= 91.44 clock= 96.86
117DF:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/5471
1:#s= 1 Cs= -10.70 XCs= -0.20 Cr= 14.00 XCr= -5.00 sD= 1080 rD= 44

30INECLPSE01

DESIGN G3.2 yande: 4/26/2001 12:21:57

FILE:P.30INECLPSE01

TARGET BODY : IO

MINI:m.30INECLPSE01

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:IEE 01-143/17:17:09.666 -CDS 233:00:0 **BODY PLOT TIME:TARGET-TIME D= 1080 S= 0.700**

OBSERVATION:30INECLPSE01 **DESCRIP:IO_ECLIPSE**

Io Eclipse Obs	ACTIVITY ID: 30INECLPSE01- START TIME: 01-143/13:19:33.000

Activity ID: Orbit 30 Target I Inst N OAPEL ECLPSE SeqNo 01 -

Title	Io Eclipse Obs			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/23/01 Week 21
Start	IEE-CDS	00000235:00:0	01-143/13:19:33.000		IEE-000/03:57:36.666
End	IEE-CDS	00000227:00:0	01-143/13:27:38.333		IEE-000/03:49:31.333
Duration		00000008:00:0	000/00:08:05.333		000/00:08:05.333

Top Label	30INECLPSE01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To search for thermal emissions of active hot spots during eclipse.

Data Returned

Design Detail

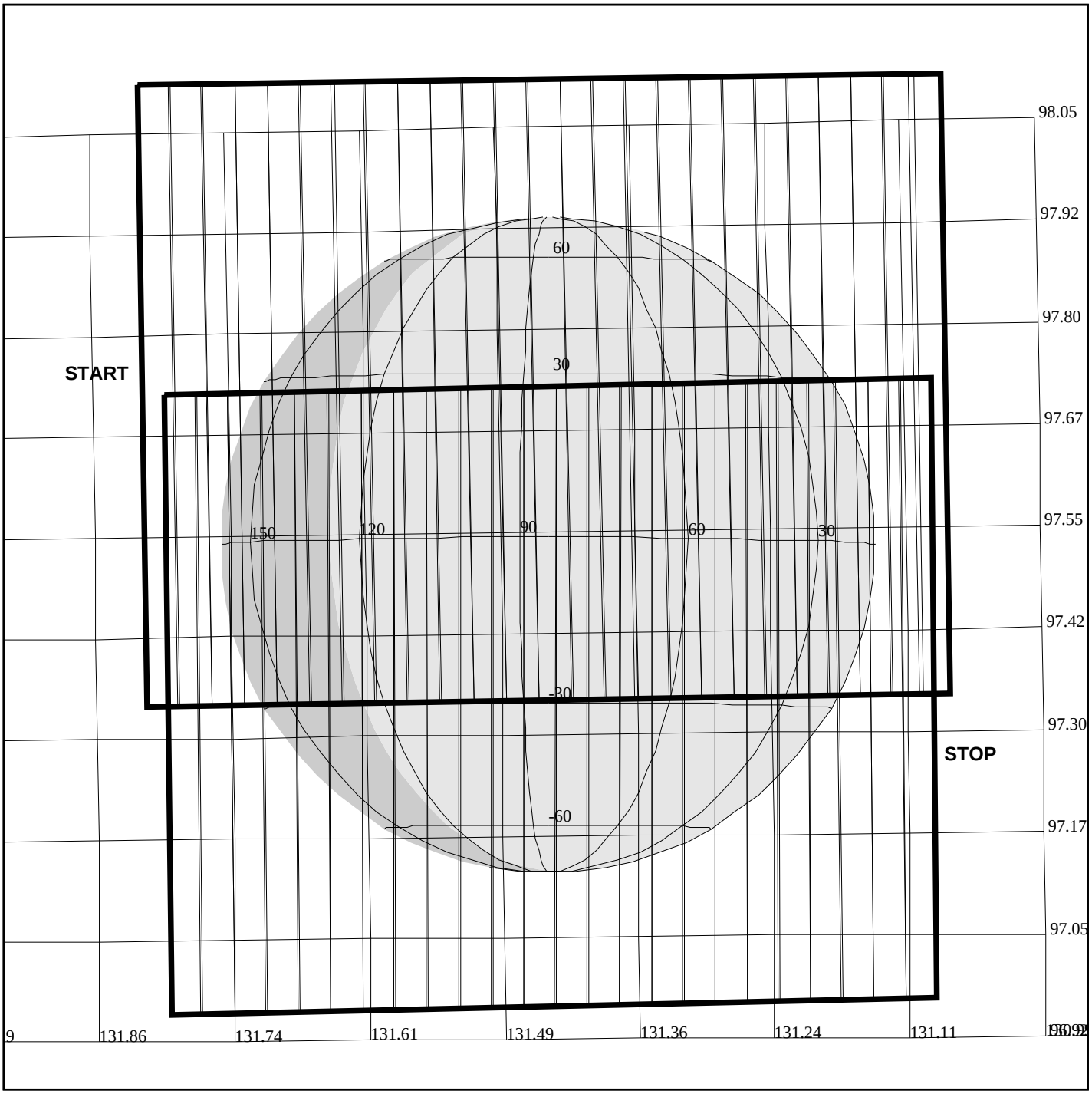
BTG=1.09 MB, TICS=169, FMT=MPW, LM

Single swath global map of Io’s disk while in eclipse.
Center of disk near 90 degrees West longitude.

36 wavelengths returnd for all RIMs.
144 extra wavelengths returnd for 4th Rim over region of
new hotspot in southern hemisphere.
180 total wavelengths in 4th RIM.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 4, Grating Start 0, MPW, ILM408, ILM36
Fixed Long Map (XLM), Gain 4, Grating Start 0, MPW, ILM408, ILM144
Fixed Long Map (XLM), Gain 4, Grating Start 0, MPW, ILM408, ILM180



165DA:TT= 0 TMC= 1 C= 6.40 XC= 2.50 BS= 0/1153 TC= 3
A= 182 pD= 2558 SR=17.450 RA50= 29.84 DEC50= 15.56 cone=131.81 clock= 97.72
117DA:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/1153
1:#s= 2 Cs= -12.50 XCs= 0.00 Cr= 12.30 XCr= -5.00 sD= 1262 rD= 34

30INGLOBAL01

DESIGN G3.2 yande: 4/26/2001 12:22:13

FILE:P.30INGLOBAL01

TARGET BODY : IO

MINI:m.30INGLOBAL01

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:IEE 01-143/17:17:09.666 +CDS 18:00:0

BODY PLOT TIME:TARGET-TIME D= 2558 S= 0.600

OBSERVATION:30INGLOBAL01

DESCRIP:IO_GLOBAL_OBSERVATION

Io Global Obs	ACTIVITY ID: 30INGLOBAL01- START TIME: 01-143/17:31:18.999

Activity ID: Orbit 30 Target I Inst N OAPEL GLOBAL SeqNo 01 -

Title	IO Global Obs			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/23/01 Week 21
Start	IEE+CDS	00000014:00:0	01-143/17:31:18.999		IEE+000/00:14:09.333
End	IEE+CDS	00000032:00:0	01-143/17:49:30.999		IEE+000/00:32:21.333
Duration		00000018:00:0	000/00:18:12.000		000/00:18:12.000

Top Label	30INGLOBAL01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To monitor Io's volcanic activity and surface changes in preparation for the upcoming I31 encounter.

Data Returned

Design Detail

BTG=5.18 MB, TICS=794, FMT=MPW

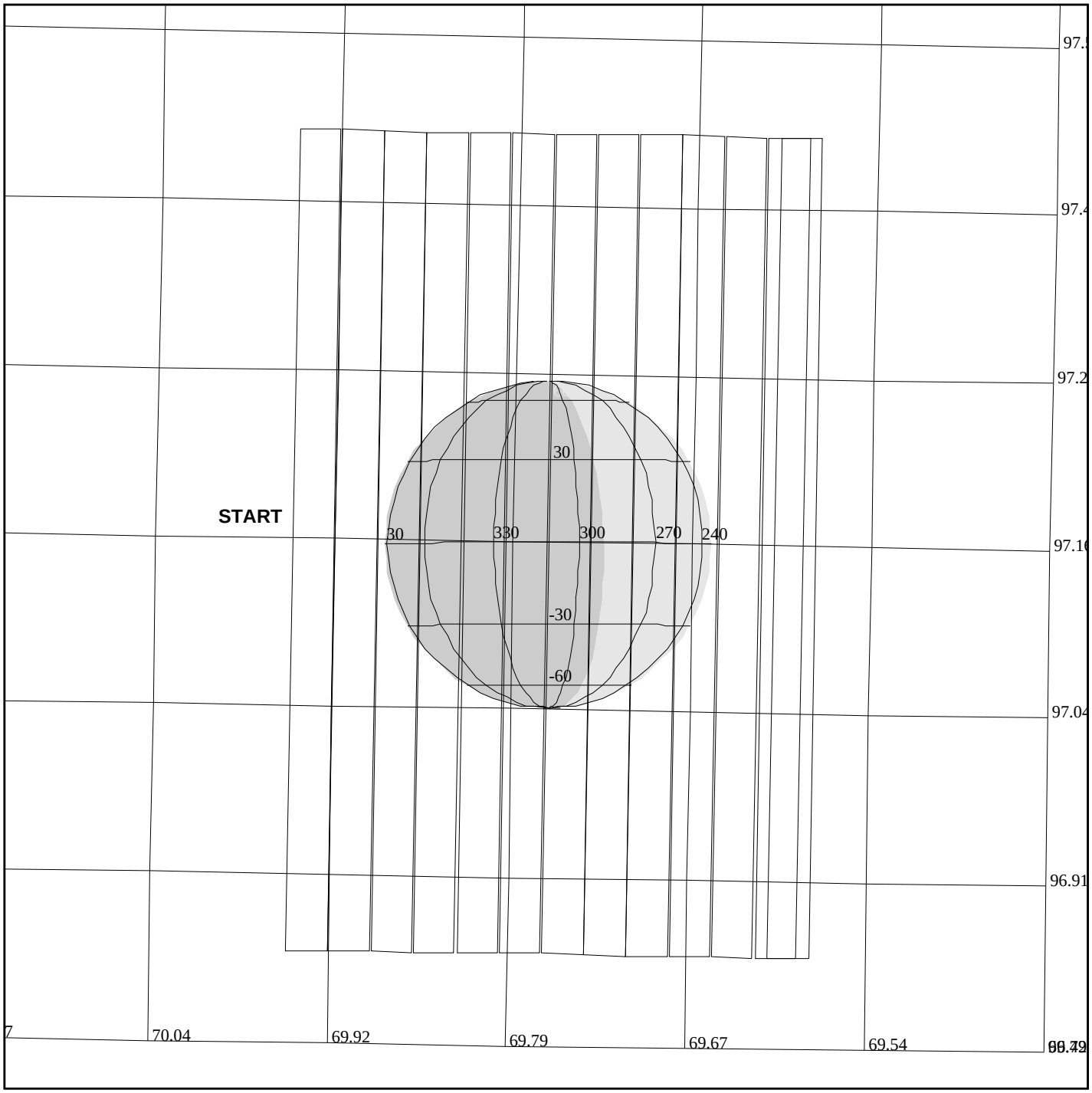
All lit longitudes and latitudes, LM

Two- swath global map of Io's 3/4 illuminated disk.
Center of disk near 90 degrees West longitude.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 2, Grating Start 0, MPW, ILM408, ILM36

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165DB:TT= 0 TMC= 1 C= 3.00 XC= 0.00 BS= 0/8675 TC= 3
A= 728 pD= 668 SR=17.450 RA50=333.09 DEC50=-10.35 cone= 69.94 clock= 97.16
117DB:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8675
1:#s= 1 Cs= -6.00 XCs= 0.00 Cr= 14.00 XCr= -5.00 sD= 668 rD= 44

30ENGLOBAL01

DESIGN G3.2 yande: 4/26/2001 12:21:45

FILE:P.30ENGLOBAL01

TARGET BODY : EUROPA

MINI:m.30ENGLOBAL01

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:EEE 01-143/23:50:28.933 +CDS 0:00:0

BODY PLOT TIME:TARGET-TIME D= 668 S= 0.300

OBSERVATION:30ENGLOBAL01

DESCRIP:EUROPA_GLOBAL_OBSERVATION

Europa Global Obs	ACTIVITY ID: 30ENGLOBAL01- START TIME: 01-143/23:46:36.267

Activity ID: Orbit 30 Target E Inst N OAPEL GLOBAL SeqNo 01 -

Title	Europa Global Obs			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/23/01 Week 21
Start	EEE-CDS	00000004:00:0	01-143/23:46:36.267		EEE-000/00:04:02.666
End	EEE+CDS	00000004:00:0	01-143/23:54:41.599		EEE+000/00:04:02.666
Duration		00000008:00:0	000/00:08:05.332		000/00:08:05.332

Top Label	30ENGLOBAL01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To investigate composition of Europa's surface and complete the global mapping which began in the prime mission.

No Data Returned

Design Detail

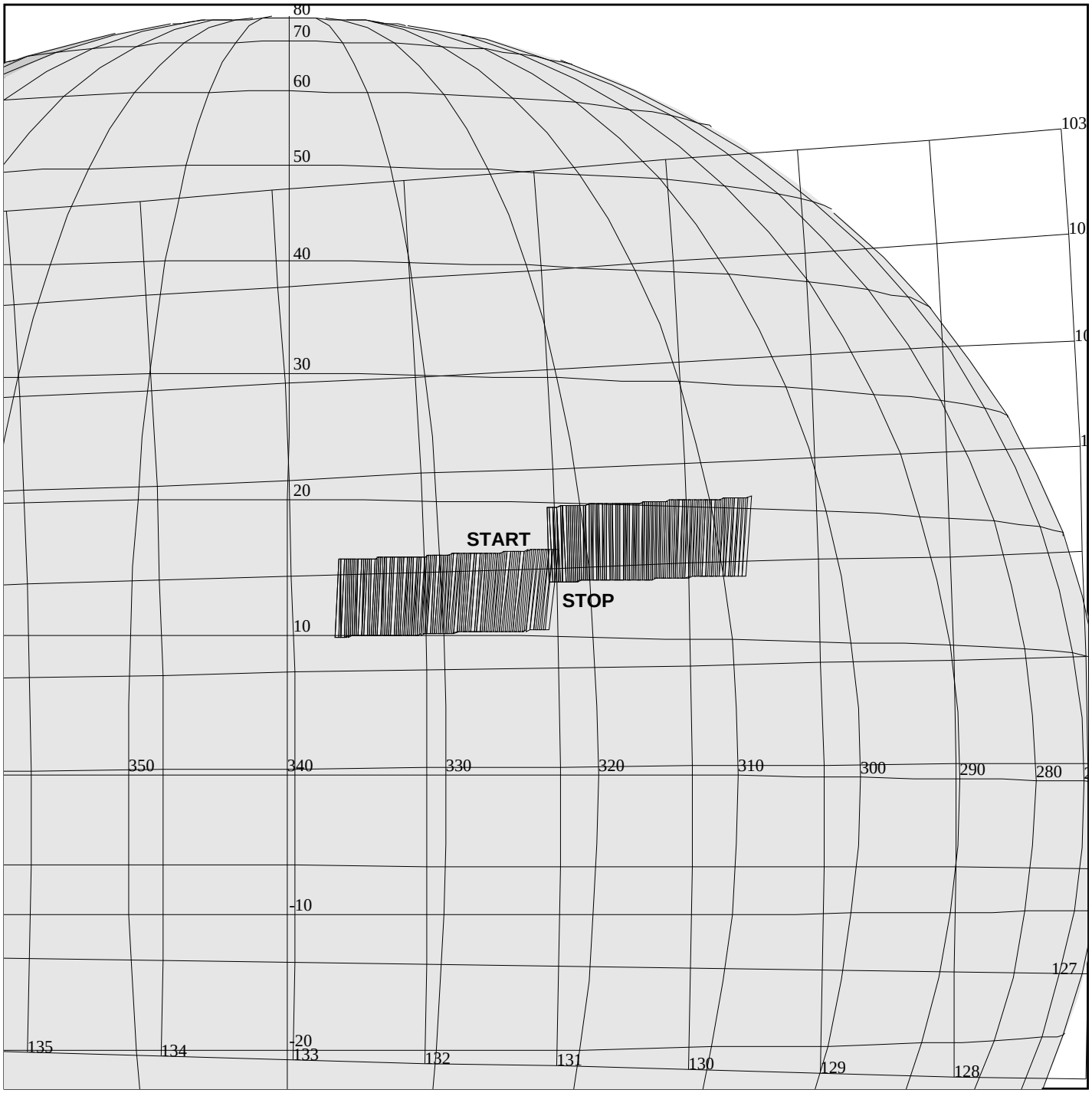
BTG=0.68 MB, TICS=51, FMT=LPU

All lit longitudes and latitudes. LM

Single swath global map of Europa, 1/3 lit.
Low resolution.
Centered at about 310 degrees West longitude.

Fixed Long Map (XLM), Gain 4, Grating Start 0, LPU, ELM228

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165DC:TT= 0 TMC= 1 C= 23.00 XC= 4.50 BS= 0/3417 TC= 1(15 310)
A= 728 pD= 8360 SR=17.450 RA50= 28.69 DEC50= 16.37 cone=131.05 clock= 99.24
117DC:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/3417
1:#s= 2 Cs= -27.60 XCs= 0.00 Cr= 46.50 XCr= -6.00 sD= 4158 rD= 44

30JNBARGEB01

DESIGN G3.2 yande: 5/21/2001 10:38: 0

FILE:P.30JNBARGEB01

CENTRAL BODY:JUPITER III

MINI:m.30JNBARGEB01

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 01-143/17:33:20.333 +CDS 454:00:0 **BODY PLOT TIME:TARGET-TIME D= 8360 S= 1.500**

OBSERVATION:30JNBARGEB01 **DESCRIP:BARGE_B_01**

Jupiter Brown Barge Obs	**ACTIVITY ID: 30JNBARGEB01-** **START TIME: 01-144/01:08:20.333**

Activity ID: Orbit 30 Target J Inst N OAPEL BARGEB SeqNo 01 -

Title	**Jupiter Brown Barge Obs**			**Instrument**	**NIMS**
Requestor	**NIMS-AWG/M. SEGURA**	**Team**	**NIMS**	**Working Group**	**AWG**

Time System	**CDS**	**Load ID**		**Calendar Date**	**05/24/01 Week 21**
Start	**JEE+CDS**	**00000450:00:0**	**01-144/01:08:20.333**		**JEE+000/07:35:00.000**
End	**JEE+CDS**	**00000498:00:0**	**01-144/01:56:52.333**		**JEE+000/08:23:32.000**
Duration		**00000048:00:0**	**000/00:48:32.000**		**000/00:48:32.000**

Top Label	**30JNBARGEB01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**300**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

To investigate compositional variations and cloud dynamics of Jupiter's Brown Barge region located between 295 and 325 degrees West longitude and 10 to 20 degrees North latitude.

Brown Barge is located at about 19 degrees North latitude.

No Data Returned

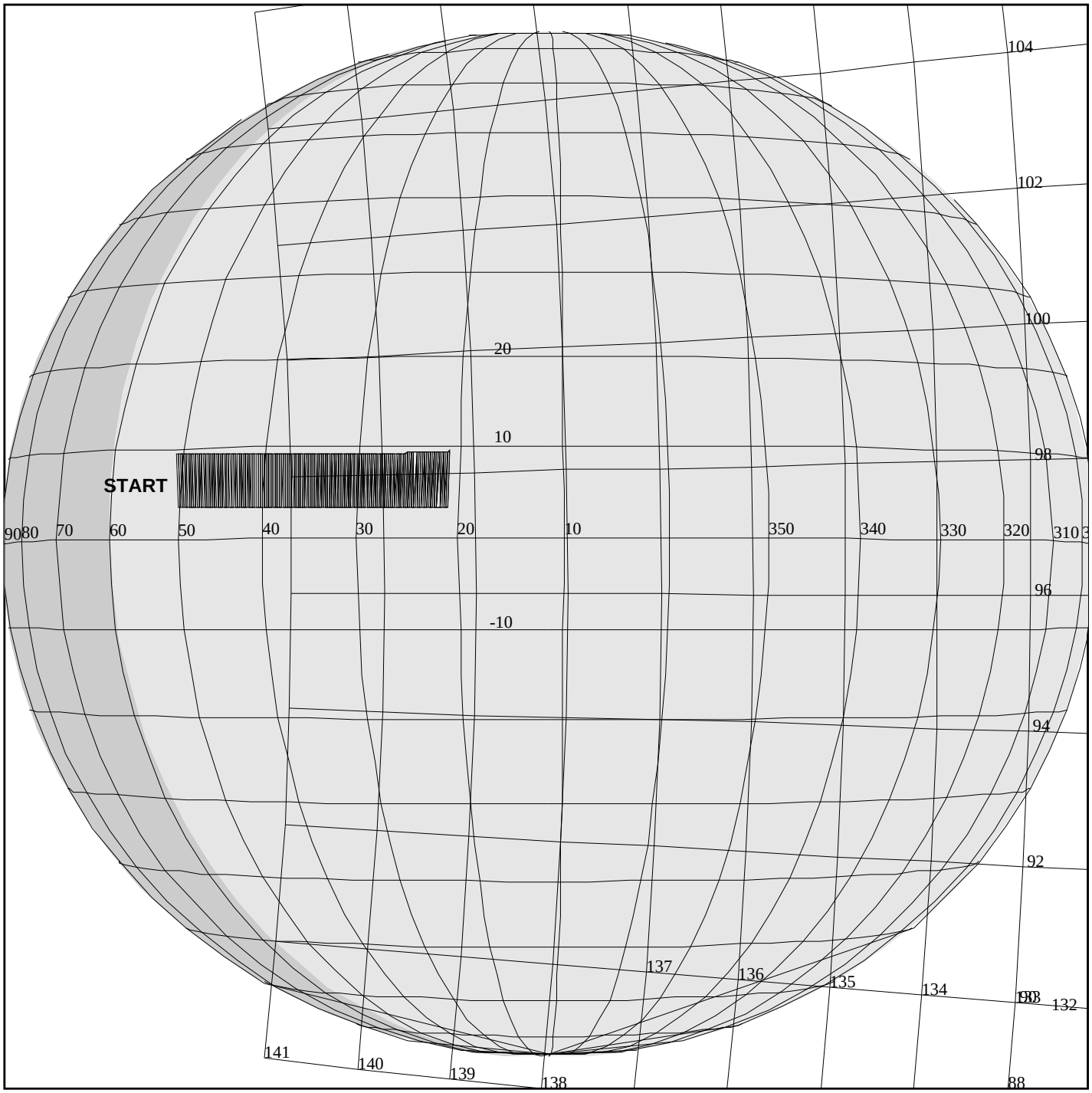
Design Detail

BTG=0.91 MB, TICS=410, FMT=LPU

LM, 2 scans, target body center.

Two-swath regional map.

Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, JLM240



165DD:TT= 0 TMC= 1 C= 53.00 XC= 1.50 BS= 0/4337 TC= 1(6 20)
A= 728 pD= 0 SR=17.450 RA50= 40.09 DEC50= 19.11 cone=142.22 clock= 97.98
117DD:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/4337
1:#s= 1 Cs= -32.00 XCs= -2.00 Cr= 44.70 XCr= -8.00 sD= 9634 rD= 44

30JNHTSPOT02

DESIGN G3.2 yande: 5/21/2001 10:39:55

FILE:P.30JNHTSPOT02

CENTRAL BODY:JUPITER III

MINI:m.30JNHTSPOT02

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 01-143/17:33:20.333 +CDS 514:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:30JNHTSPOT02 **DESCRIP:HOT_SPOT_02**

Jupiter Hot Spot Obs	ACTIVITY ID: 30JNHTSPOT02- START TIME: 01-144/02:09:00.333

Activity ID: Orbit 30 Target J Inst N OAPEL HTSPOT SeqNo 02 -

Title	Jupiter Hot Spot Obs			Instrument	NIMS
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/24/01 Week 21
Start	JEE+CDS	00000510:00:0	01-144/02:09:00.333		JEE+000/08:35:40.000
End	JEE+CDS	00000568:00:0	01-144/03:07:38.999		JEE+000/09:34:18.666
Duration		00000058:00:0	000/00:58:38.666		000/00:58:38.666

Top Label	30JNHTSPOT02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To investigate compositional variations and clound dynamic of Jupiter's Hot Spot region located between 50 and 355 degrees West longitude and 5 to 10 degrees North latitude.

Two hotspots are targetted in this observation:
1 at about 6 degrees West longitude,
1 at about 38 degrees West longitude.

No Data Returned

Design Detail

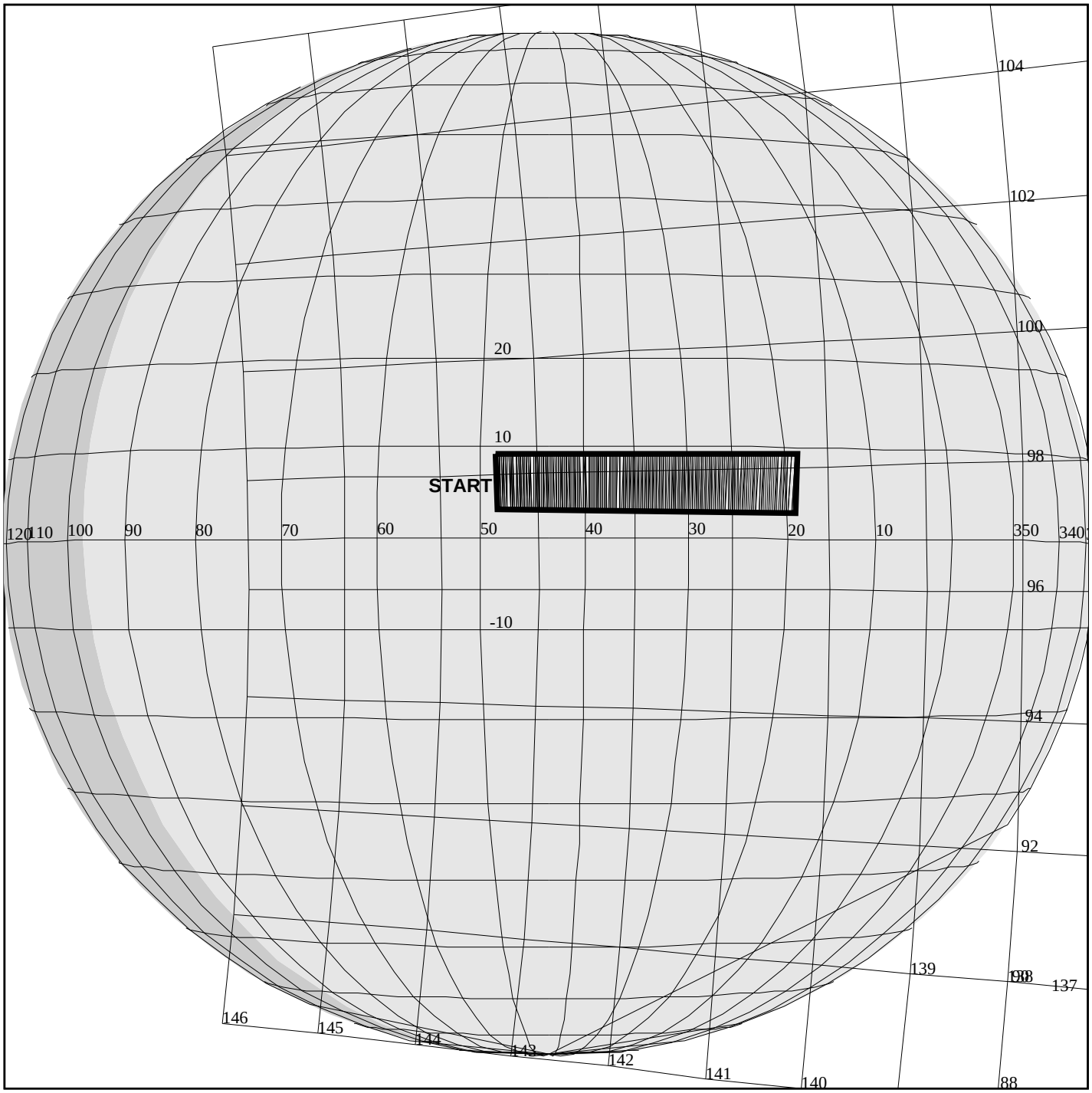
BTG=0.91 MB, TICS=410, FMT=LPU

LM, 1 scans, target body center.

Single swath regional map.

2 Hotspots at 6 and 38 degrees West longitude.

Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, JLM240



165DE:TT= 0 TMC= 1 C= 52.00 XC= 1.50 BS= 0/5257 TC= 1(6 20)
A= 728 pD= 0 SR=17.450 RA50= 41.33 DEC50= 19.39 cone=143.42 clock= 97.86
117DE:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/5257
1:#s= 1 Cs= -27.80 XCs= -2.50 Cr= 44.30 XCr= -7.00 sD= 8360 rD= 44

30JNHTSPOT03

DESIGN G3.2 yande: 5/21/2001 10:40:10

FILE:P.30JNHTSPOT03

CENTRAL BODY:JUPITER III

MINI:m.30JNHTSPOT03

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 01-143/17:33:20.333 +CDS 574:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:30JNHTSPOT03 **DESCRIP:HOT_SPOT_03**

Jupiter Hot Spot Obs	ACTIVITY ID: 30JNHTSPOT03- START TIME: 01-144/03:09:40.333

Activity ID: Orbit 30 Target J Inst N OAPEL HTSPOT SeqNo 03 -

Title	Jupiter Hot Spot Obs			Instrument	NIMS
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/24/01 Week 21
Start	JEE+CDS	00000570:00:0	01-144/03:09:40.333		JEE+000/09:36:20.000
End	JEE+CDS	00000620:00:0	01-144/04:00:13.666		JEE+000/10:26:53.333
Duration		00000050:00:0	000/00:50:33.333		000/00:50:33.333

Top Label	30JNHTSPOT03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To investigate compositional variations and cloud dynamics of Jupiter's Hot Spot region located between 50 and 350 degrees West longitude and 5 and 10 degrees North latitude.

Two hotspots are targetted in this observation:
1 at about 6 degrees West longitude,
1 at about 38 degrees West longitude.

Data Returned

Design Detail

BTG=0.91 MB, TICS=269, FMT=LPU

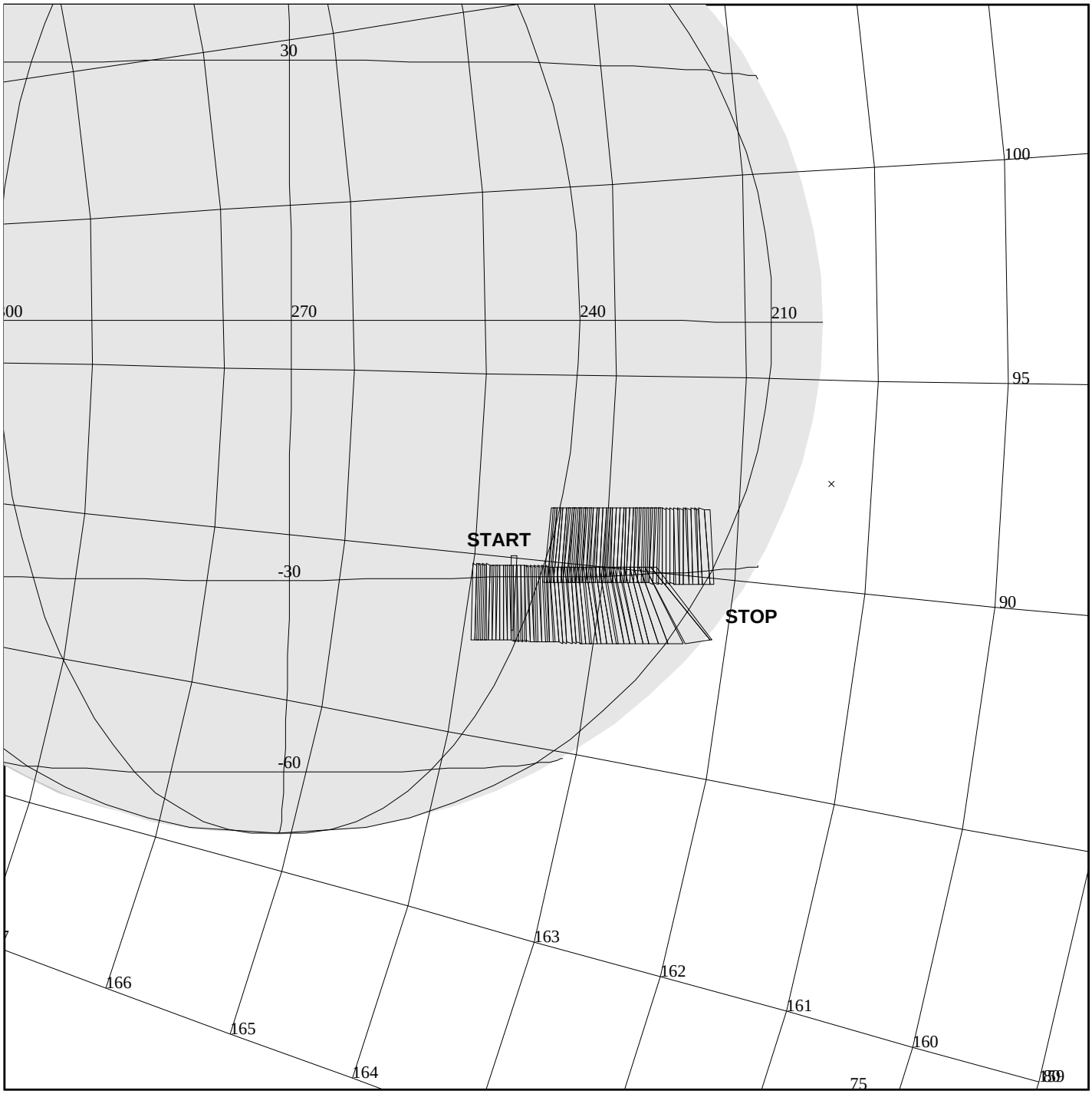
LM, 1 scan, target body center.

Single swath regional map.

2 Hotspots at 6 and 38 degrees West longitude.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, JLM240, JLM16



165DG:TT= 0 TMC= 1 C= 12.50 XC= 2.80 BS= 0/9877 TC= 1(-30 225)
A= 728 pD= 0 SR=17.450 RA50= 62.84 DEC50= 21.89 cone=163.44 clock= 90.43
117DG:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/9877
1:#s= 2 Cs= -15.48 XCs= 1.50 Cr= 27.00 XCr= -10.00 sD= 2334 rD= 52

30JNWTOVAL01

DESIGN G3.2 yande: 5/21/2001 10:40:26

FILE:P.30JNWTOVAL01

CENTRAL BODY:JUPITER III

MINI:m.30JNWTOVAL01

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 01-143/17:33:20.333 +CDS 984:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:30JNWTOVAL01 **DESCRIP:WHITE_OVAL_01**

Jupiter White Oval Obs	ACTIVITY ID: 30JNWTOVAL01- START TIME: 01-144/10:04:13.666

Activity ID: Orbit 30 Target J Inst N OAPEL WTOVAL SeqNo 01 -

Title	Jupiter White Oval Obs	Instrument	NIMS
Requestor	NIMS-AWG/M. SEGURA	Team NIMS	Working Group AWG

Time System	CDS	Load ID		Calendar Date	05/24/01 Week 21
Start	JEE+CDS	00000980:00:0	01-144/10:04:13.333		JEE+000/16:30:53.333
End	JEE+CDS	00001012:00:0	01-144/10:36:34.999		JEE+000/17:03:14.666
Duration		00000032:00:0	000/00:32:21.333		000/00:32:21.333

Top Label	30JNWTOVAL01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To investigate compositional variations and clound dynamics of Jupiter's last remaing White Oval. This data will enhance the 4 year study of these Jovian features.

No Data Returned

Design Detail

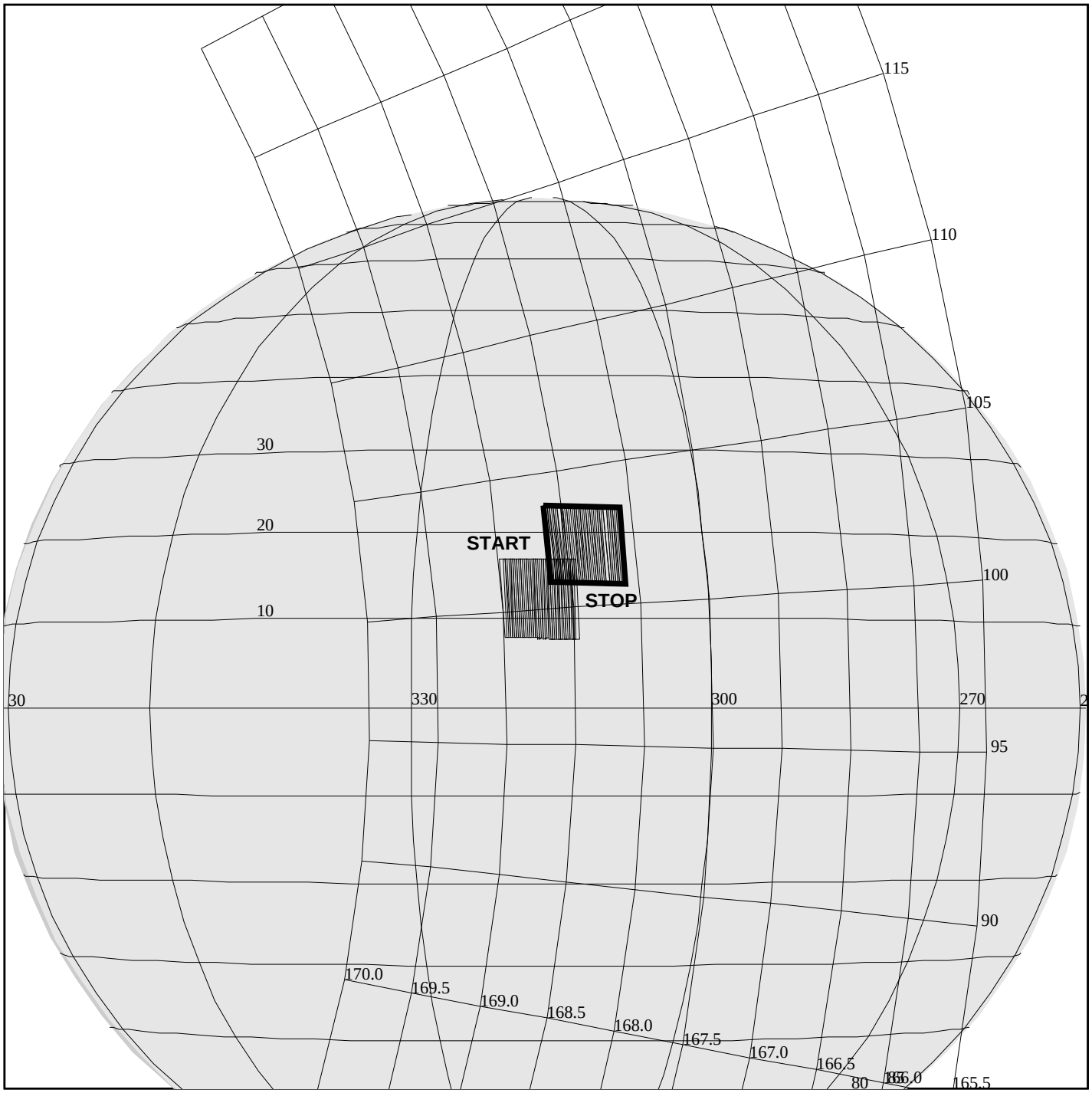
BTG=0.91 MB, TICS=269, FMT=LPU

LM, 2 scans, target body center.

Two-swath regional map.

Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, JLM240

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165DH:TT= 0 TMC= 1 C= 7.50 XC= 4.70 BS= 0/4437 TC= 1(15 310)
A= 728 pD= 0 SR=17.450 RA50= 67.85 DEC50= 25.57 cone=168.59 clock=102.39
117DH:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/4437
1:#s= 2 Cs= -9.40 XCs= -1.40 Cr= 15.00 XCr= -5.00 sD= 1426 rD= 48

30JNBBARGE01

DESIGN G3.2 yande: 5/21/2001 10:38:17

FILE:P.30JNBBARGE01

CENTRAL BODY:JUPITER III

MINI:m.30JNBBARGE01

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS:

THINNING:NIM 2

START:JEE 01-143/17:33:20.333 +CDS 1064:00:0

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

OBSERVATION:30JNBBARGE01

DESCRIP:WHITE_OVAL_02

Jupiter Brown Barge Obs	ACTIVITY ID: 30JNBBARGE01- START TIME: 01-144/11:25:06.999

Activity ID: Orbit 30 Target J Inst N OAPEL BBARGE SeqNo 01 -

Title	Jupiter Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/24/01 Week 21
Start	JEE+CDS	00001060:00:0	01-144/11:25:06.999		JEE+000/17:51:46.666
End	JEE+CDS	00001080:00:0	01-144/11:45:20.333		JEE+000/18:12:00.000
Duration		00000020:00:0	000/00:20:13.334		000/00:20:13.334

Top Label	30JNBBARGE01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To investigate compositional variations and clound dynamics of Jupiter's Brown Barge region located between 305 and 320 degrees West longitude and centered at 19 degrees North latitude.

Brown Barge is located at about 19 degrees North latitude.

Data Returned

Design Detail

BTG=0.91 MB, TICS=269, FMT=LPU

LM, 2 scans, target body center.

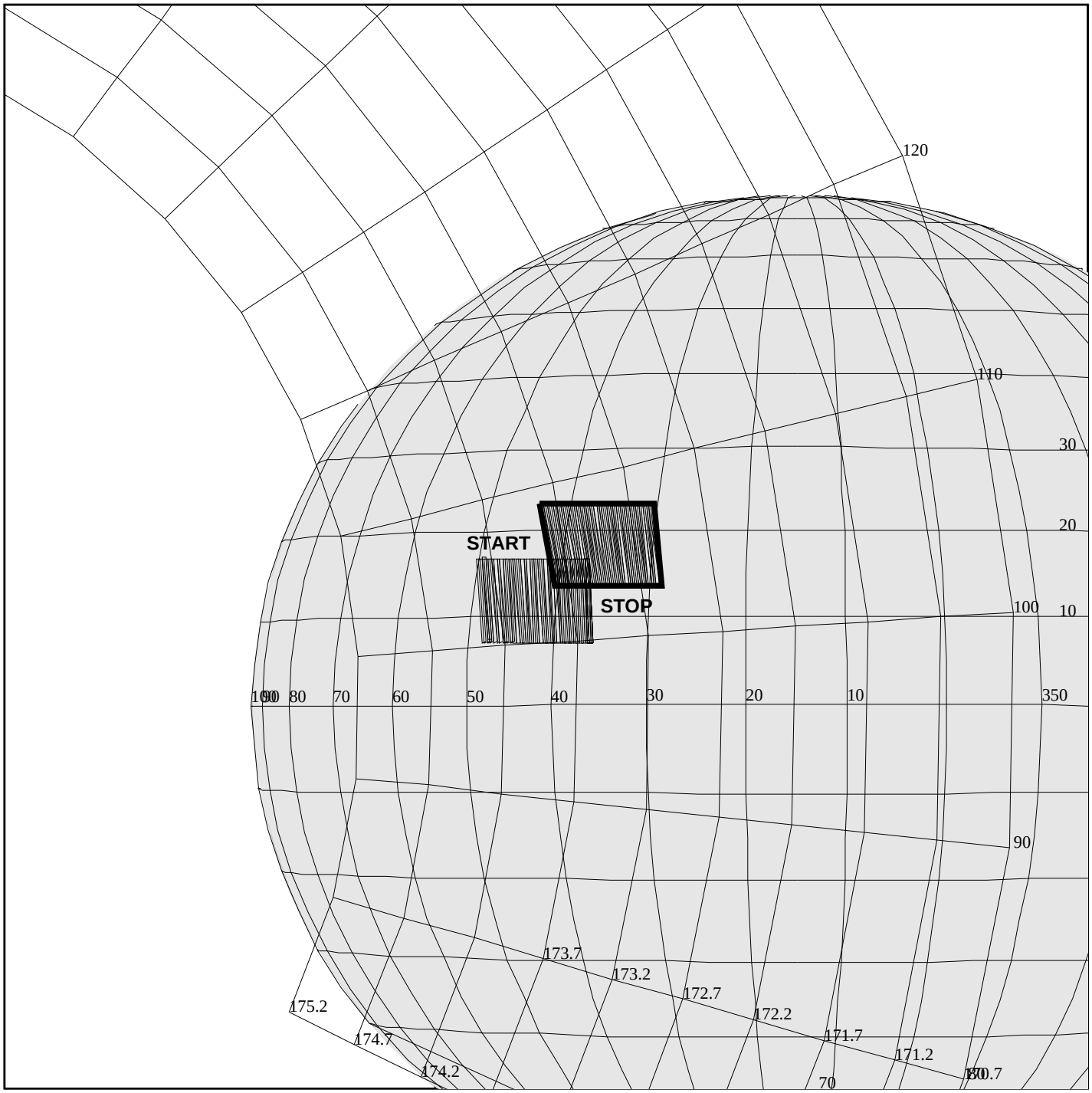
Two-swath regional map.

Only first swath returned.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, JLM240, JLM16

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165DI:TT= 0 TMC= 1 C= 11.50 XC= 5.50 BS= 0/2637 TC= 1(15 30)
A= 728 pD= 0 SR=17.450 RA50= 73.65 DEC50= 26.09 cone=173.81 clock=106.31
117DI:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/2637
1:#s= 2 Cs= -15.00 XCs= -3.07 Cr= 23.00 XCr= -2.50 sD= 2332 rD= 56

30JNBBARGE02

DESIGN G3.2 yande: 5/21/2001 10:38:33

FILE:P.30JNBBARGE02

CENTRAL BODY:JUPITER III

MINI:m.30JNBBARGE02

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 01-143/17:33:20.333 +CDS 1164:00:0 **BODY PLOT TIME:END-TIME D= 0 S= 1.000**

OBSERVATION:30JNBBARGE02 **DESCRIP:WHITE_OVAL_03**

Jupiter Brown Barge Obs	ACTIVITY ID: 30JNBBARGE02- START TIME: 01-144/13:06:13.666

Activity ID: Orbit 30 Target J Inst N OAPEL BBARGE SeqNo 02 -

Title	Jupiter Brown Barge Obs			Instrument	NIMS
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/24/01 Week 21
Start	JEE+CDS	00001160:00:0	01-144/13:06:13.333		JEE+000/19:32:53.333
End	JEE+CDS	00001190:00:0	01-144/13:36:33.666		JEE+000/20:03:13.333
Duration		00000030:00:0	000/00:30:20.000		000/00:30:20.000

Top Label	30JNBBARGE02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To investigate compositional variations and cloud dynamics of Jupiter's Brown Barge region located between 25 and 45 degrees West longitude and centered at 19 degrees North latitude.

Brown Barge is located at about 19 degrees North latitude.

Data Returned

Design Detail

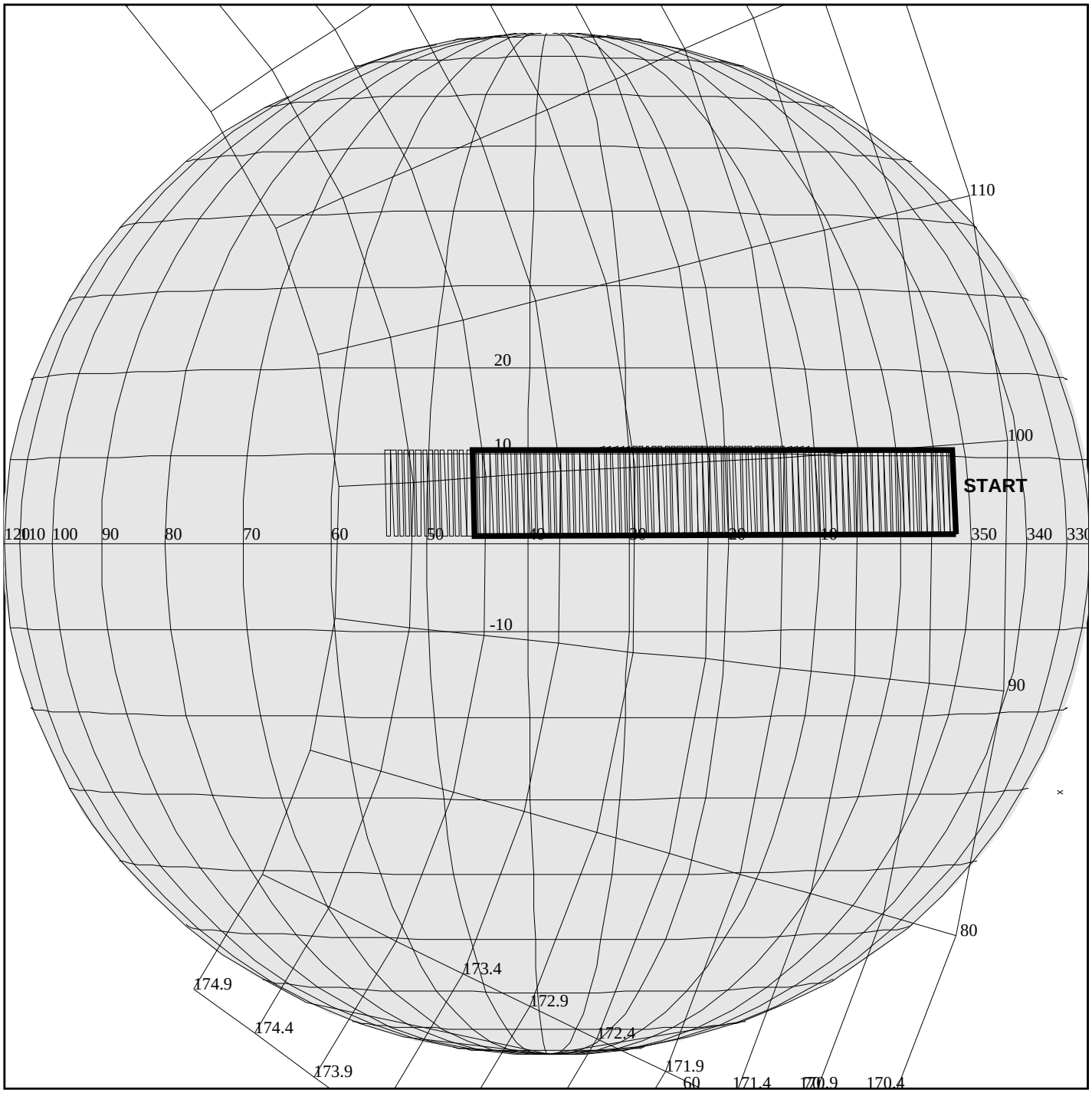
BTG=0.91 MB, TICS=269, FMT=LPU

Two-swath regional map.

Only first swath returned.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, JLM240, JLM8



165DJ:TT= 0 TMC= 1 C= -21.00 XC= -1.00 BS= 0/9917 TC= 1(6 15)
A= 728 pD= 0 SR=17.450 RA50= 70.30 DEC50= 24.94 cone=170.76 clock= 98.05
117DJ:#SB= 1 OR= 0.040 RR=12.000 BM=F RC= 1 BS= 0/9917
1:#s= 1 Cs= 62.50 XCs= 1.60 Cr= 23.50 XCr= -7.00 sD= 4718 rD= 58

30JNHTSPOT01

DESIGN G3.2 yande: 5/21/2001 10:39:41

FILE:P.30JNHTSPOT01

CENTRAL BODY:JUPITER III

MINI:m.30JNHTSPOT01

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 01-143/17:33:20.333 +CDS 1204:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:30JNHTSPOT01 **DESCRIP:HOT_SPOT_01**

Jupiter Hot Spot Obs	**ACTIVITY ID: 30JNHTSPOT01-** **START TIME: 01-144/13:46:40.333**

Activity ID: Orbit 30 Target J Inst N OAPEL HTSPOT SeqNo 01 -

Title	**Jupiter Hot Spot Obs**			**Instrument**	**NIMS**
Requestor	**NIMS-AWG/M. SEGURA**	**Team**	**NIMS**	**Working Group**	**AWG**

Time System	**CDS**	**Load ID**		**Calendar Date**	**05/24/01 Week 21**
Start	**JEE+CDS**	**00001200:00:0**	**01-144/13:46:40.333**		**JEE+000/20:13:20.000**
End	**JEE+CDS**	**00001230:00:0**	**01-144/14:17:00.333**		**JEE+000/20:43:40.000**
Duration		**00000030:00:0**	**000/00:30:20.000**		**000/00:30:20.000**

Top Label	**30JNHTSPOT01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**300**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

To investigate compositional variations and clound dynamics of Jupiter's Hot Spot region located between 40 and 355 degrees West longitude and 0 and 10 degrees North latitude.

Two hotspots are targetted in this observation:
1 at about 6 degrees West longitude,
1 at about 38 degrees West longitude.

Last 4 RIMs not returned.

Data Returned

Design Detail

BTG=0.91 MB, TICS=269, FMT=LPU

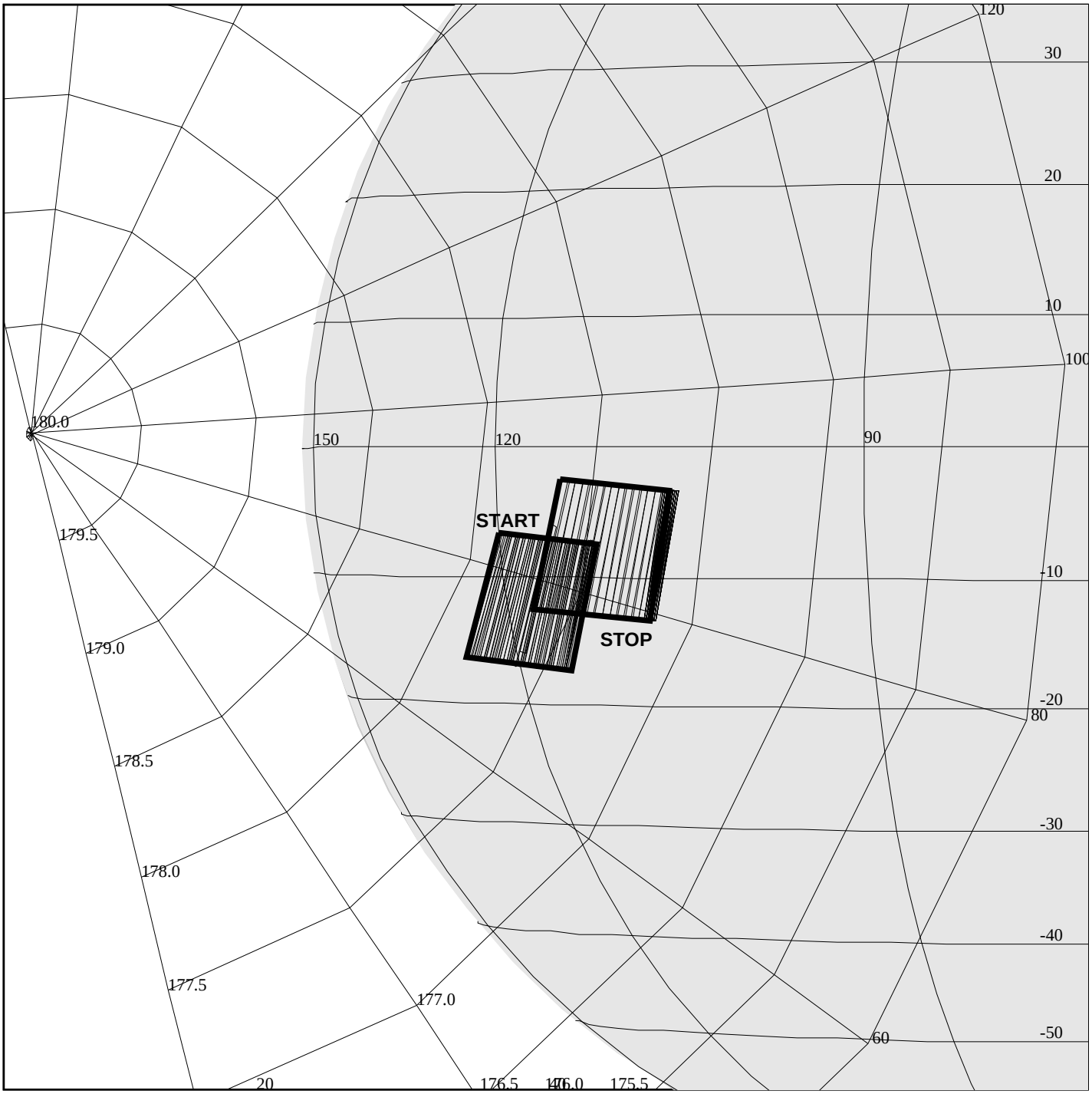
LM, 1 scan, target body centered.

Single swath regional map.

2 Hotspots at 6 and 38 degrees West longitude.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, JLM240, JLM16



165DK:TT= 0 TMC= 1 C= 5.00 XC= 1.50 BS= 0/0837 TC= 1(-10 110)
A= 728 pD= 0 SR=17.450 RA50= 78.07 DEC50= 24.88 cone=177.72 clock= 83.98
117DK:#SB= 1 OR= 0.070 RR=12.000 BM=F RC= 1 BS= 0/0837
1:#s= 2 Cs= -9.00 XCs= 1.06 Cr= 13.60 XCr= -6.00 sD= 2318 rD= 84

30JNGRWAKE01

DESIGN G3.2 yande: 5/21/2001 10:39:26

FILE:P.30JNGRWAKE01

CENTRAL BODY:JUPITER III

MINI:m.30JNGRWAKE01

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 01-143/17:33:20.333 +CDS 1264:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.500**

OBSERVATION:30JNGRWAKE01 **DESCRIP:GRS_WAKE_01**

Jupiter GRS Wake Obs	ACTIVITY ID: 30JNGRWAKE01- START TIME: 01-144/14:47:20.333

Activity ID: Orbit 30 Target J Inst N OAPEL GRWAKE SeqNo 01 -

Title	Jupiter GRS Wake Obs			Instrument	NIMS
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/24/01 Week 21
Start	JEE+CDS	00001260:00:0	01-144/14:47:20.333		JEE+000/21:14:00.000
End	JEE+CDS	00001290:00:0	01-144/15:17:40.333		JEE+000/21:44:20.000
Duration		00000030:00:0	000/00:30:20.000		000/00:30:20.000

Top Label	30JNGRWAKE01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To investigate compositional variations and cloudn dynamics of Jupiter’s turbulent Wake region near the Great Red Spot.

Data Returned

Design Detail

BTG=3.75 MB, TICS=325, FMT=LPU

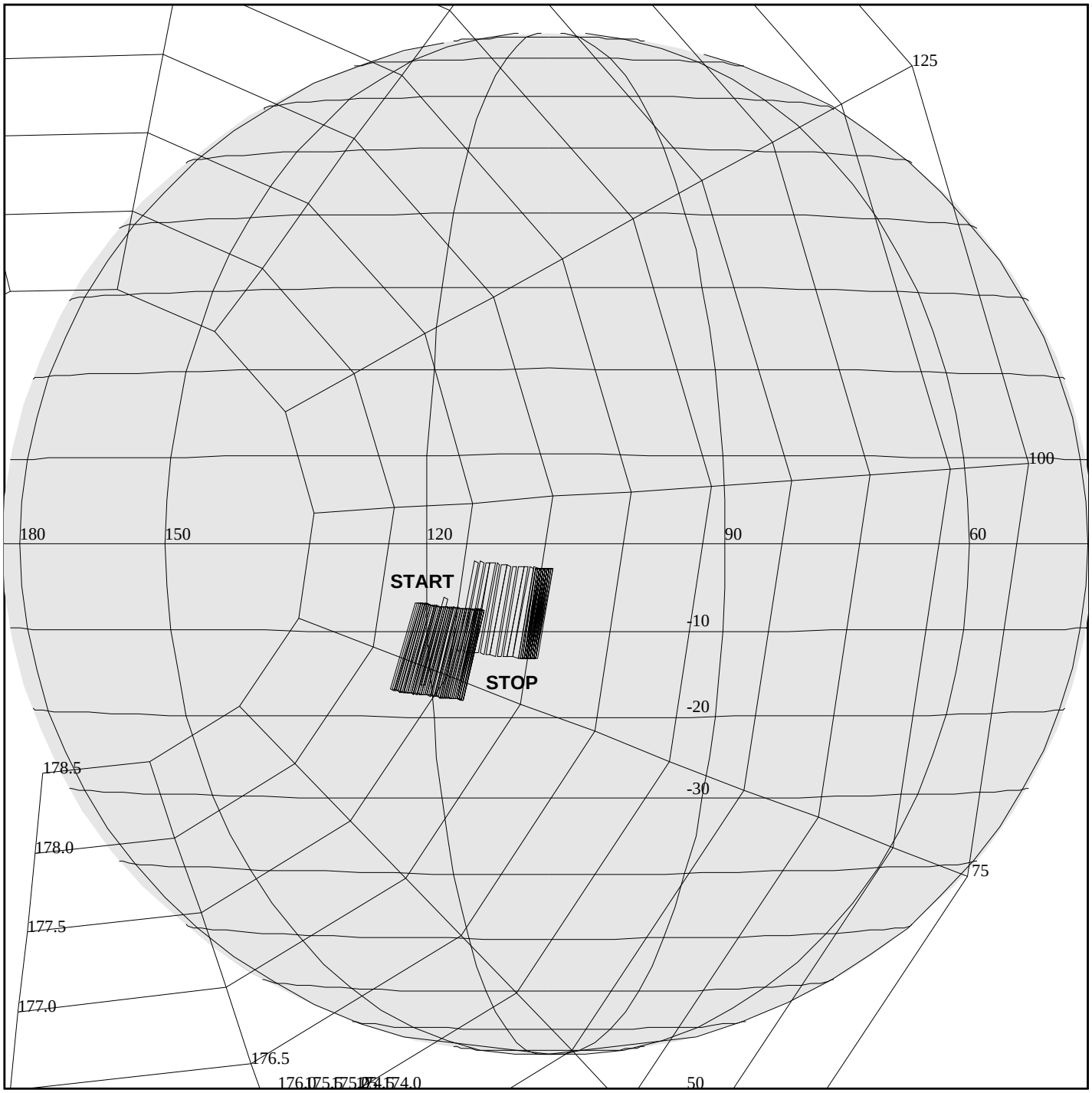
LM, 2 scans, target body center.

Two-swath regional map.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, JLM240, JLM16

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165DL:TT= 0 TMC= 1 C= 7.00 XC= 1.50 BS= 0/1757 TC= 1(-10 110)
A= 728 pD= 0 SR=17.450 RA50= 77.79 DEC50= 24.86 cone=177.46 clock= 85.25
117DL:#SB= 1 OR= 0.050 RR=12.000 BM=F RC= 1 BS= 0/1757
1:#s= 2 Cs= -9.00 XCs= 0.76 Cr= 12.90 XCr= -6.00 sD= 2318 rD= 84

30JNGRWAKE02

DESIGN G3.2 yande: 5/21/2001 10:39: 8

FILE:P.30JNGRWAKE02

CENTRAL BODY:JUPITER III

MINI:m.30JNGRWAKE02

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 01-143/17:33:20.333 +CDS 1324:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:30JNGRWAKE02 **DESCRIP:GRS_WAKE_02**

Jupiter GRS Wake Obs	**ACTIVITY ID: 30JNGRWAKE02-** **START TIME: 01-144/15:48:00.333**

Activity ID: Orbit 30 Target J Inst N OAPEL GRWAKE SeqNo 02 -

Title	**Jupiter GRS Wake Obs**			**Instrument**	**NIMS**
Requestor	**NIMS-AWG/M. SEGURA**	**Team**	**NIMS**	**Working Group**	**AWG**

Time System	**CDS**	**Load ID**		**Calendar Date**	**05/24/01 Week 21**
Start	**JEE+CDS**	**00001320:00:0**	**01-144/15:48:00.333**		**JEE+000/22:14:40.000**
End	**JEE+CDS**	**00001350:00:0**	**01-144/16:18:20.333**		**JEE+000/22:45:00.000**
Duration		**00000030:00:0**	**000/00:30:20.000**		**000/00:30:20.000**

Top Label	**30JNGRWAKE02-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**300**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

To investigate compositional variations and cloud dynamics of Jupiter's turbulent Wake region near the Great Red Spot.

No Data Returned

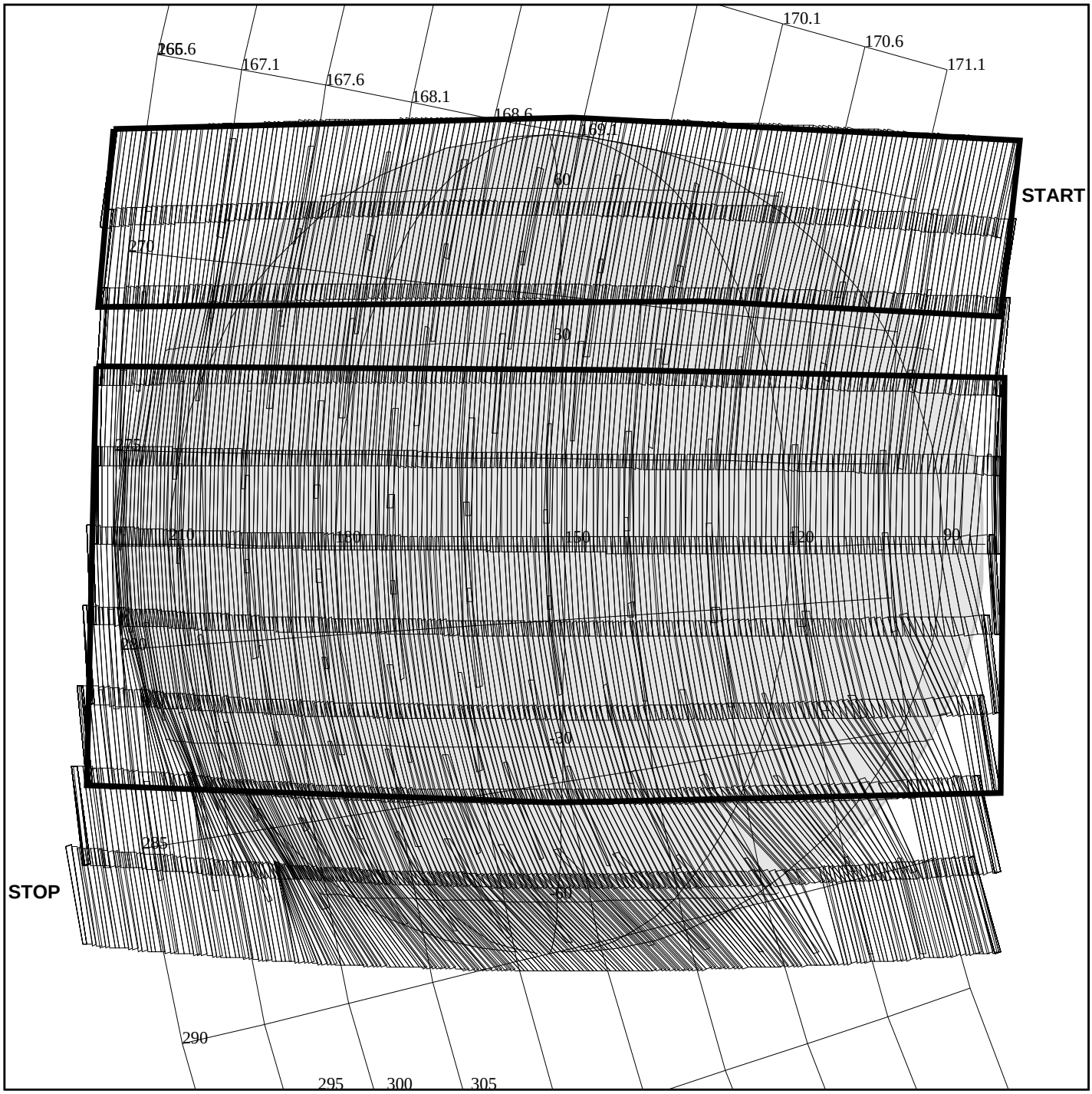
Design Detail

BTG=3.75 MB, TICS=325, FMT=LPU

LM, 2 scans, target body center.

Two-swath regional map.

Fixed Long Map (XLM), Gain 2, Grating Start 0, LPU, JLM240



165DP:TT= 0 TMC= 1 C= 43.50 XC= -45.50 BS= 0/6245 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 89.64 DEC50= 27.45 cone=171.59 clock=263.88
117DP:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/6245
1:#s= 10 Cs= -89.80 XCs= 18.00 Cr= 90.50 XCr= -10.00 sD= 408 rD= 70

30JNGLOBAL01

DESIGN G3.2 yande: 5/21/2001 10:41:12

FILE:P.30JNGLOBAL01

CENTRAL BODY:JUPITER III

MINI:m.30JNGLOBAL01

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 01-143/17:33:20.333 +CDS 2008:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:30JNGLOBAL01 **DESCRIP:J_GLOBAL_01**

Jupiter Global Obs	ACTIVITY ID: 30JNGLOBAL01- START TIME: 01-145/03:19:36.333

Activity ID: Orbit 30 Target J Inst N OAPEL GLOBAL SeqNo 01 -

Title	Jupiter Global Obs			Instrument	NIMS
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/25/01 Week 21
Start	JEE+CDS	00002004:00:0	01-145/03:19:36.333		JEE+001/09:46:16.000
End	JEE+CDS	00002044:00:0	01-145/04:00:02.999		JEE+001/10:26:42.666
Duration		00000040:00:0	000/00:40:26.666		000/00:40:26.666

Top Label	30JNGLOBAL01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

The first of three global maps of Jupiter from limb to limb, pole to pole, search for compositional variations over a full Jovian rotation.

Data Returned

Design Detail

BTG=3.75 MB, TICS=325, FMT=LPU

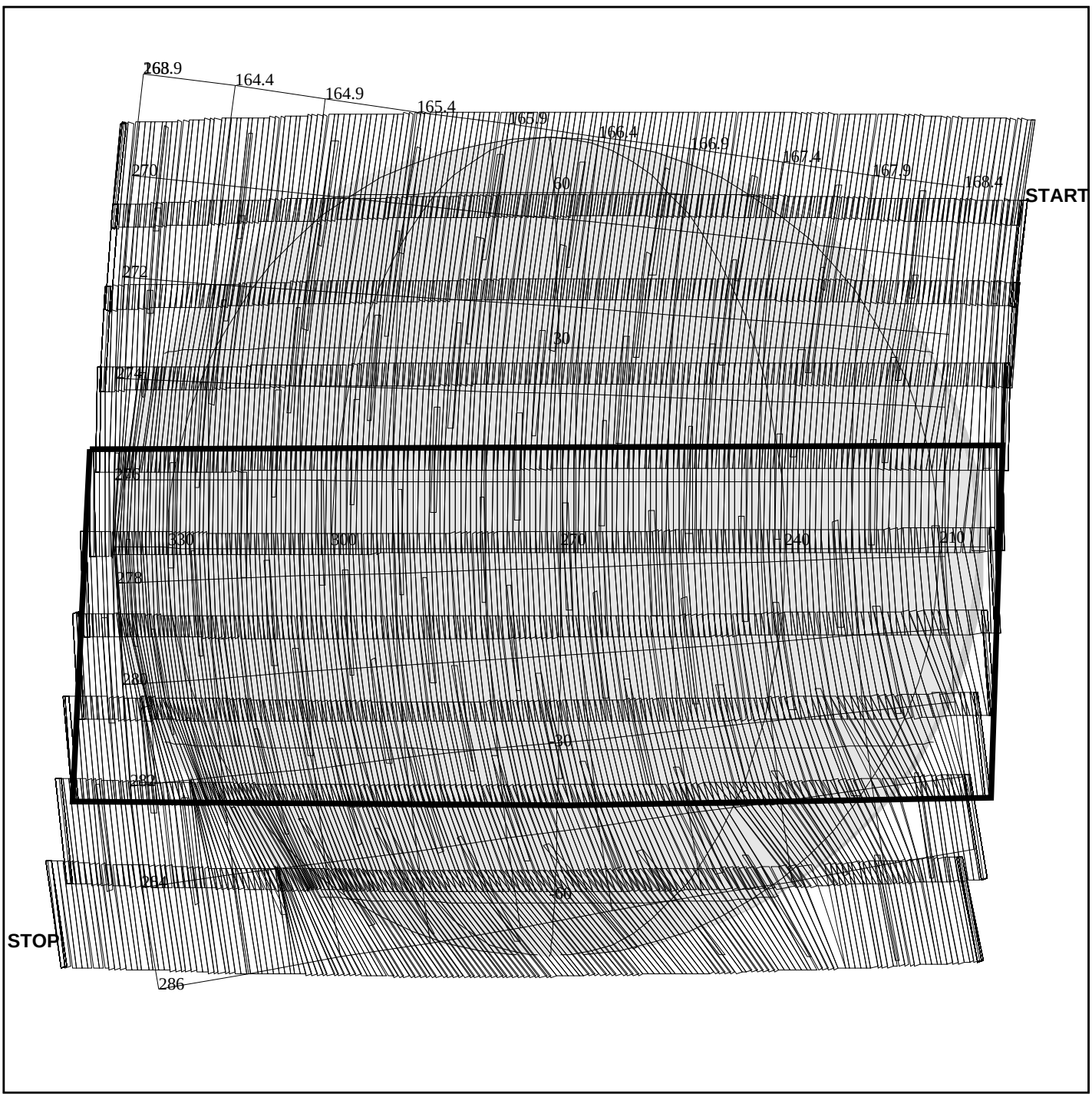
XM, cover all lit longitudes and latitudes

Global map consisting of 10 swaths.

Top 2 swaths returned with 2 wavelengths (det 10,13) (Polar Aurora)
latitude range: +40N to +90N
Central swaths 4-8 returned with 5 wavelengths (det 4,6,10,11,17)
latitude range: -37S to +27N

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Map (XM), Gain 2, Grating Start 0, LPU, JXM10, JXM2
Fixed Map (XM), Gain 2, Grating Start 0, LPU, JXM10, JXM5



165DQ:TT= 0 TMC= 1 C= 43.00 XC= -42.00 BS= 0/2645 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 92.92 DEC50= 27.30 cone=168.74 clock=267.37
117DQ:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/2645
1:#s= 10 Cs= -85.00 XCs= 13.00 Cr= 85.00 XCr= -5.20 sD= 374 rD= 66

30JNGLOBAL02

DESIGN G3.2 yande: 5/21/2001 10:41:49

FILE:P.30JNGLOBAL02

CENTRAL BODY:JUPITER III

MINI:m.30JNGLOBAL02

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 01-143/17:33:20.333 +CDS 2208:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:30JNGLOBAL02 **DESCRIP:J_GLOBAL_02**

Jupiter Global Obs	ACTIVITY ID: 30JNGLOBAL02- START TIME: 01-145/06:41:49.666

Activity ID: Orbit 30 Target J Inst N OAPEL GLOBAL SeqNo 02 -

Title	Jupiter Global Obs			Instrument	NIMS
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/25/01 Week 21
Start	JEE+CDS	00002204:00:0	01-145/06:41:49.666		JEE+001/13:08:29.333
End	JEE+CDS	00002232:00:0	01-145/07:10:08.333		JEE+001/13:36:48.000
Duration		00000028:00:0	000/00:28:18.667		000/00:28:18.667

Top Label	30JNGLOBAL02-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

The second of three global maps of Jupiter, limb to limb, pole to pole, to search for compositional variations a full Jovian rotation.

Data Returned

Design Detail

BTG=3.75 MB, TICS=325, FMT=LPU

XM, cover all lit longitudes and latitudes.

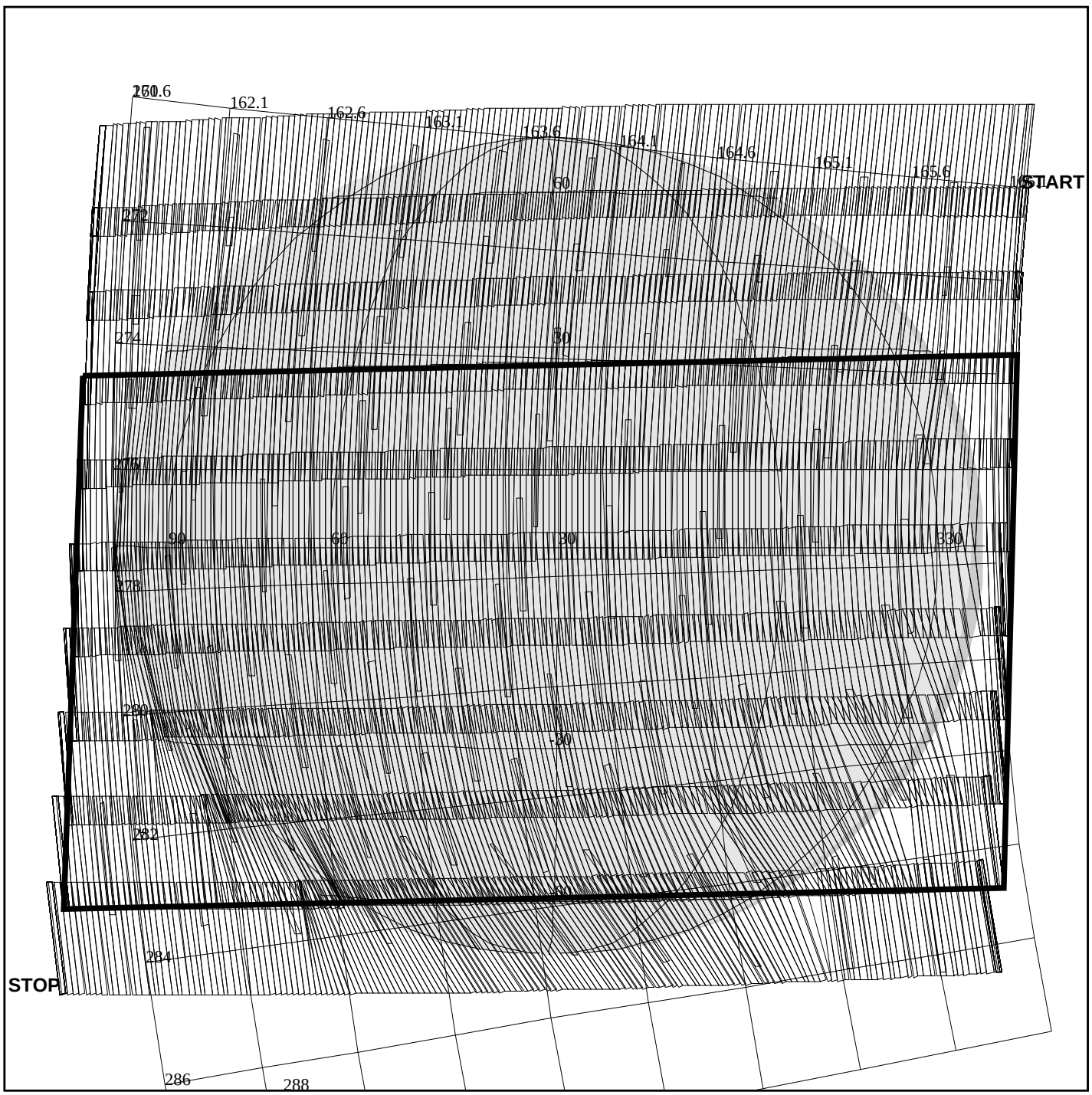
Global map consisting of 10 swaths.

Central swaths 5-8 returned with 5 wavelengths (det 4,6,10,11,17)
latitude range: -40S to +15N

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Map (XM), Gain 2, Grating Start 0, LPU, JXM10, JXM5

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165DR:TT= 0 TMC= 1 C= 41.00 XC= -39.00 BS= 0/9044 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 95.86 DEC50= 27.07 cone=166.15 clock=269.42
117DR:#SB= 1 OR= 0.750 RR=12.000 BM=F RC= 1 BS= 0/9044
1:#s= 10 Cs= -82.00 XCs= 11.00 Cr= 82.00 XCr= -3.50 sD= 362 rD= 60

30JNGLOBAL03

DESIGN G3.2 yande: 5/21/2001 10:42:26

FILE:P.30JNGLOBAL03

CENTRAL BODY:JUPITER III

MINI:m.30JNGLOBAL03

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:JEE 01-143/17:33:20.333 +CDS 2408:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.800**

OBSERVATION:30JNGLOBAL03 **DESCRIP:J_GLOBAL_03**

Jupiter Global Obs	ACTIVITY ID: 30JNGLOBAL03- START TIME: 01-145/10:04:02.999

Activity ID: Orbit 30 Target J Inst N OAPEL GLOBAL SeqNo 03 -

Title	Jupiter Global Obs			Instrument	NIMS
Requestor	NIMS-AWG/M. SEGURA	Team	NIMS	Working Group	AWG

Time System	CDS	Load ID		Calendar Date	05/25/01 Week 21
Start	JEE+CDS	00002404:00:0	01-145/10:04:02.999		JEE+001/16:30:42.666
End	JEE+CDS	00002434:00:0	01-145/10:34:22.999		JEE+001/17:01:02.666
Duration		00000030:00:0	000/00:30:20.000		000/00:30:20.000

Top Label	30JNGLOBAL03-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

The third of three global maps of Jupiter from limb to limb, pole to pole, to investigate compositional variations over a full Jovian rotation.

Data Returned

Design Detail

BTG=3.75 MB, TICS=325, FMT=LPU

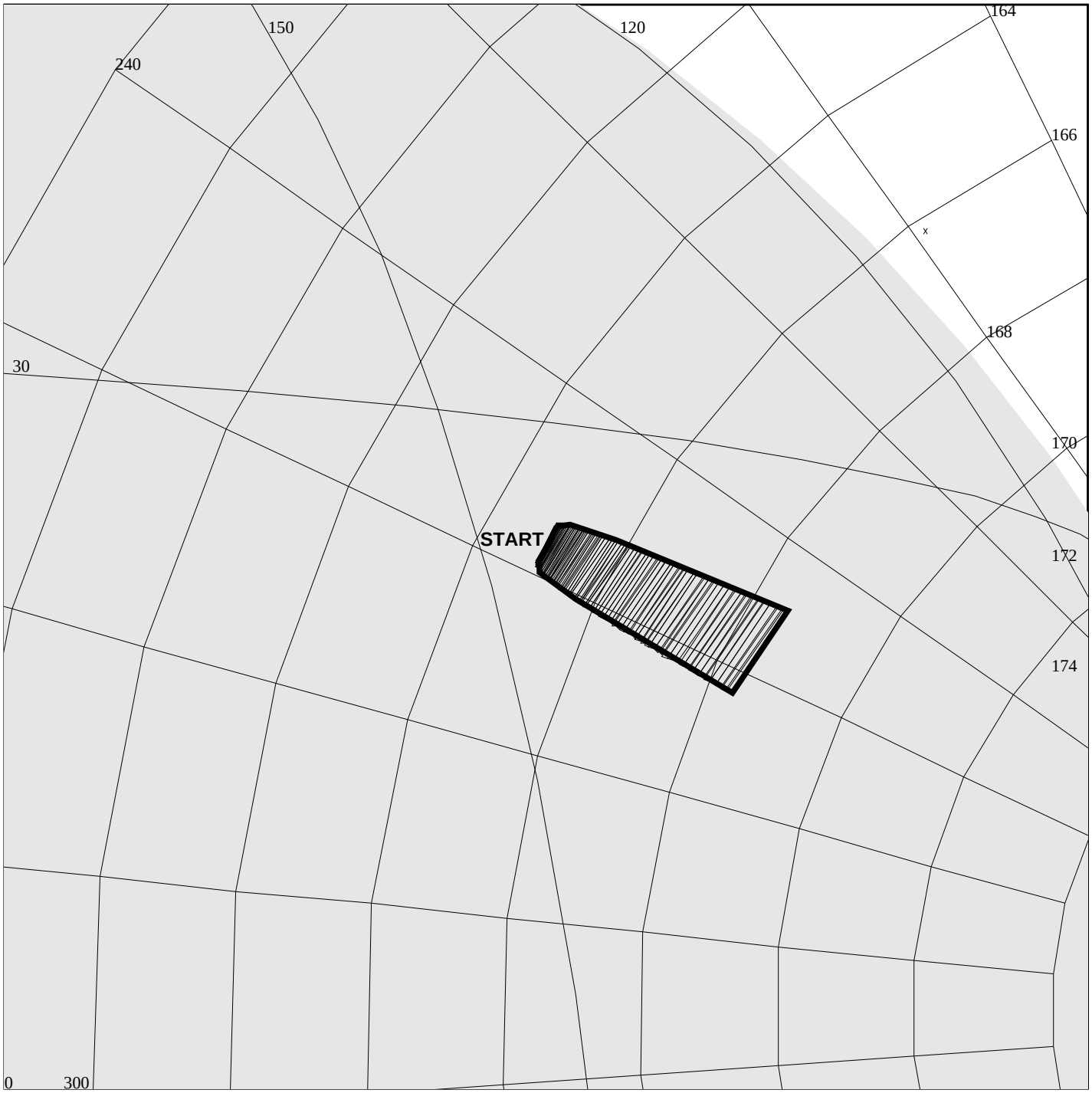
XM, cover all lit longitudes and latitudes.

Global map consisting of 10 swaths.

Central swaths 4-9 returned with 5 wavelengths (det 4,6,10,11,17)
latitude range: -50S to +27N

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Map (XM), Gain 2, Grating Start 0, LPU, JXM10, JXM5



165DS:TT= 0 TMC= 1 C= -29.00 XC= -1.20 BS= 0/4332 TC= 1(25 145)
A= 302 pD= 1992 SR=17.450 RA50= 95.70 DEC50= 32.47 cone=165.01 clock=248.10
117DS:#SB= 1 OR= 0.060 RR=12.000 BM=F RC= 1 BS= 0/4332
1:#s= 1 Cs= 39.60 XCs= 4.00 Cr= -17.00 XCr= 7.00 sD= 1992 rD= 48

30CNFEATRE01

DESIGN G3.2 yande: 4/26/2001 12:21:27

FILE:P.30CNFEATRE01

TARGET BODY : CALLISTO

MINI:m.30CNFEATRE01

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:CEE 01-145/11:23:55.533 +CDS 9:77:0 **BODY PLOT TIME:TARGET-TIME D= 1992 S= 3.000**

OBSERVATION:30CNFEATRE01 **DESCRIP:CALLISTO_FEATURE**

Callisto Feature Obs	ACTIVITY ID: 30CNFEATRE01- START TIME: 01-145/11:31:10.866

Activity ID: Orbit 30 Target C Inst N OAPEL FEATRE SeqNo 01 -

Title	Callisto Feature Obs			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/25/01 Week 21
Start	CEE+CDS 00000007:16:0	01-145/11:31:10.866		CEE+000/00:07:15.333	
End	CEE+CDS 00000020:16:0	01-145/11:44:19.533		CEE+000/00:20:24.000	
Duration	00000013:00:0	000/00:13:08.667		000/00:13:08.667	

Top Label	30CNFEATRE01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

High spatial resolution scan of the Asgard multi-ring structure to enhance and complete the on-going study of compositional components and surface variations on Callisto.

Data Returned

Design Detail

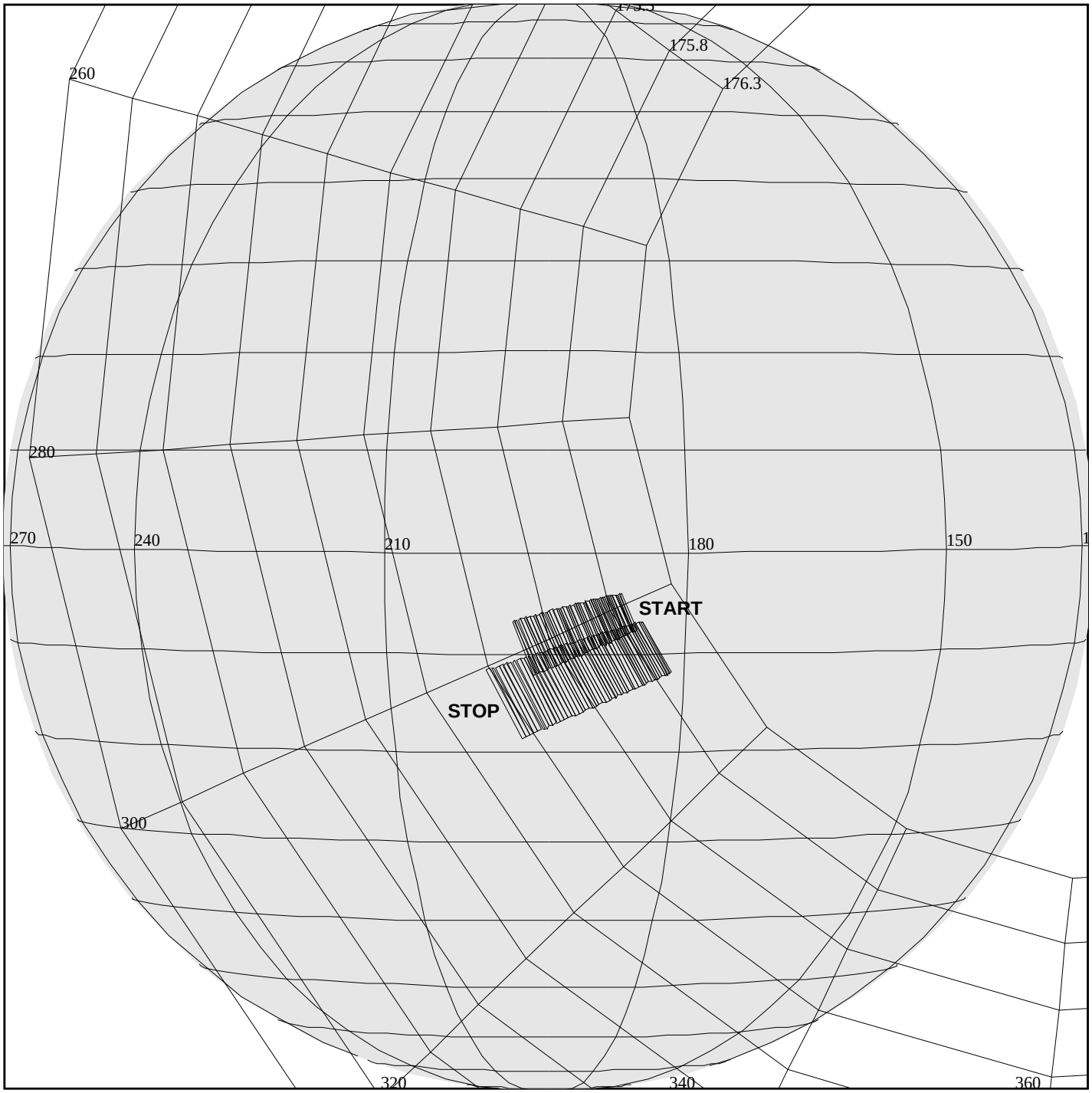
BTG=4.15 MB, TICS=635, FMT=MPW

LM, 1 scan, body center.

Single-swath high resolution map.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 4, Grating Start 0, MPW, CLM408, CLM30



165DT:TT= 0 TMC= 1 C= 15.00 XC= -5.00 BS= 0/8518 TC= 1(-10 190)
A= 364 pD= 4868 SR=17.450 RA50= 88.51 DEC50= 22.53 cone=172.11 clock=299.75
117DT:#SB= 1 OR= 0.030 RR=12.000 BM=F RC= 1 BS= 0/8518
1:#s= 2 Cs= -24.00 XCs= 0.00 Cr= 21.00 XCr= 9.00 sD= 2406 rD= 56

30CNCTBRAN01

DESIGN G3.2 yande: 4/26/2001 12:21:10

FILE:P.30CNCTBRAN01

TARGET BODY : CALLISTO

MINI:m.30CNCTBRAN01

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:CEE 01-145/11:23:55.533 +CDS 32:00:0 **BODY PLOT TIME:END-TIME D= 4868 S= 1.000**

OBSERVATION:30CNCTBRAN01 **DESCRIP:CALLISTO_CTBRAN**

Callisto Bran Crater Obs	ACTIVITY ID: 30CNCTBRAN01- START TIME: 01-145/11:52:14.199

Activity ID: Orbit 30 Target C Inst N OAPEL CTBRAN SeqNo 01 -

Title	Callisto Bran Crater Obs			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/25/01 Week 21
Start	CEE+CDS 00000028:00:0	01-145/11:52:14.199		CEE+000/00:28:18.666	
End	CEE+CDS 00000059:00:0	01-145/12:23:34.866		CEE+000/00:59:39.333	
Duration	00000031:00:0	000/00:31:20.667		000/00:31:20.667	

Top Label	30CNCTBRAN01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To investigate compositional variations of the Bran Crater region on Callisto’s southern hemisphere.

No Data Returned

Design Detail

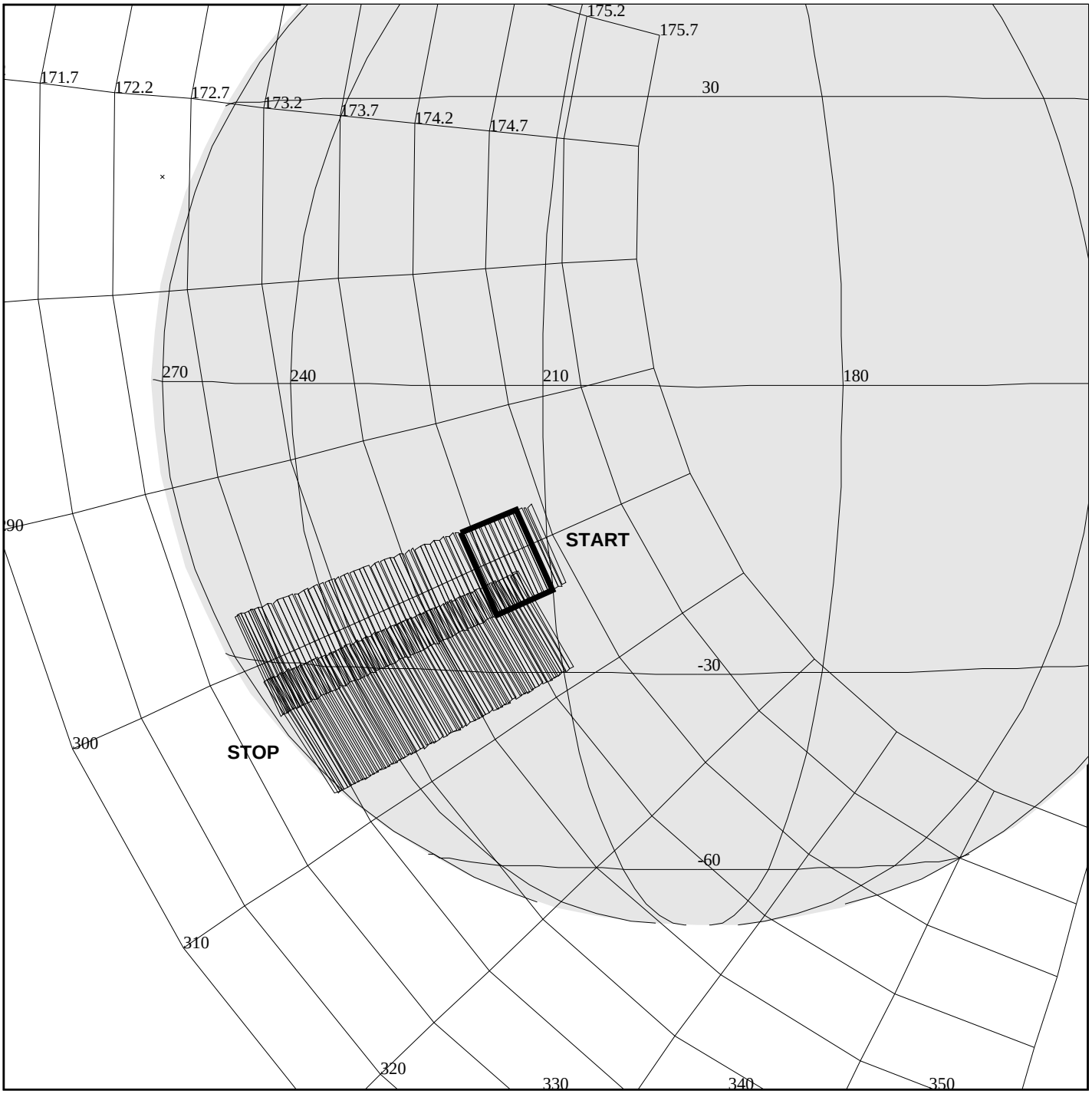
BTG=8.5 MB, TICS=410, FMT=LPU

LM, 2 scans.

Two-swath moderate resolution regional map.

Fixed Long Map (XLM), Gain 4, Grating Start 0, LPU, CLM253

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95



165DU:TT= 0 TMC= 1 C= -3.00 XC= -5.50 BS= 0/4706 TC= 1(-19.2 205.5)
A= 364 pD= 0 SR=17.450 RA50= 85.92 DEC50= 23.48 cone=174.67 clock=300.49
117DU:#SB= 1 OR= 0.010 RR=12.000 BM=F RC= 1 BS= 0/4706
1:#s= 2 Cs= -9.40 XCs= -0.27 Cr= 26.30 XCr= 7.00 sD= 3202 rD= 64

30CNREGION01

DESIGN G3.2 yande: 4/26/2001 12:12:38

FILE:P.30CNREGION01

TARGET BODY : CALLISTO

MINI:m.30CNREGION01

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:CEE 01-145/11:23:55.533 +CDS 66:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 1.000**

OBSERVATION:30CNREGION01 **DESCRIP:CALLISTO_REGION**

Callisto Regional Obs	ACTIVITY ID: 30CNREGION01- START TIME: 01-145/12:28:38.199

Activity ID: Orbit 30 Target C Inst N OAPEL REGION SeqNo 01 -

Title	Callisto Regional Obs			Instrument	NIMS
Requestor	NIMS-SWG/M. SEGURA	Team	NIMS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/25/01 Week 21
Start	CEE+CDS	00000064:00:0	01-145/12:28:38.199		CEE+000/01:04:42.666
End	CEE+CDS	00000104:00:0	01-145/13:09:04.866		CEE+000/01:45:09.333
Duration		00000040:00:0	000/00:40:26.667		000/00:40:26.667

Top Label	30CNREGION01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

To investigate composition and variation of constituents over the surface of Callisto on a regional scale.

Data Returned

Design Detail

BTG=7.29 MB, TICS=565, FMT=LPU

LM, 2 scans.

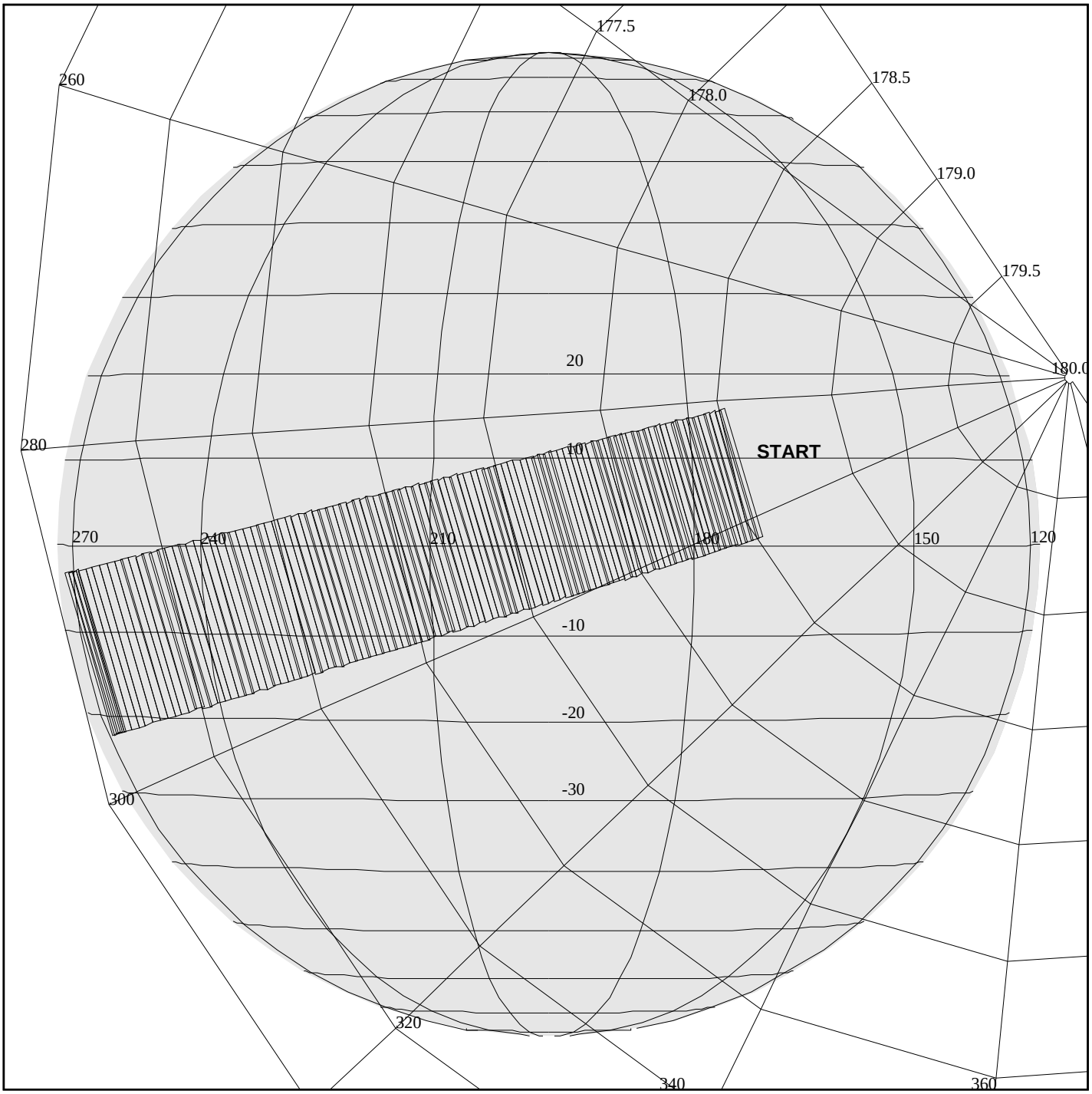
Two-swath regional map.

Only 3 RIMs of first swath returned.

SPACECRAFT IN CRUISE MODE - UNCOMPENSATED SPACECRAFT WOBBLE PRESENT

Fixed Long Map (XLM), Gain 4, Grating Start 0, LPU, CLM253, CLM12

Galileo Activity Plan Form	12/01/00 00:00:00	rev 6/95



165DV:TT= 0 TMC= 1 C= 15.50 XC= -1.00 BS= 0/3442 TC= 3
A= 728 pD= 0 SR=17.450 RA50= 82.08 DEC50= 25.16 cone=178.53 clock=292.42
117DV:#SB= 1 OR= 0.020 RR=12.000 BM=F RC= 1 BS= 0/3442
1:#s= 1 Cs= -35.00 XCs= 0.00 Cr= 15.00 XCr= 12.00 sD= 5448 rD= 100

30CNREGION02

DESIGN G3.2 yande: 4/26/2001 12:20:17

FILE:P.30CNREGION02

TARGET BODY : CALLISTO

MINI:m.30CNREGION02

S/C EPH:/DATA/NAVIO/010314-tour.NS

PERIAPSIS: **THINNING:NIM 2**

START:CEE 01-145/11:23:55.533 +CDS 114:00:0 **BODY PLOT TIME:TARGET-TIME D= 0 S= 0.900**

OBSERVATION:30CNREGION02 **DESCRIP:CALLISTO_REGION_02**

Callisto Regional Obs	**ACTIVITY ID: 30CNREGION02-** **START TIME: 01-145/13:15:08.866**

Activity ID: Orbit 30 Target C Inst N OAPEL REGION SeqNo 02 -

Title	**Callisto Regional Obs**			**Instrument**	**NIMS**
Requestor	**NIMS-SWG/M. SEGURA**	**Team**	**NIMS**	**Working Group**	**SWG**

Time System	**CDS**	**Load ID**		**Calendar Date**	**05/25/01 Week 21**
Start	**CEE+CDS**	**00000110:00:0**	**01-145/13:15:08.866**		**CEE+000/01:51:13.333**
End	**CEE+CDS**	**00000143:00:0**	**01-145/13:48:30.866**		**CEE+000/02:24:35.333**
Duration		**00000033:00:0**	**000/00:33:22.000**		**000/00:33:22.000**

Top Label	**30CNREGION02-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**300**	**Report Options**	**BOTH**	**Scan Platform**	**No**
CDS Source	**OAP**	**Spin State**	**DUAL**	**DMS**	**No**

Observation Objective

To investigate compositional variations and enhance the Callisto data set obtained over the course of Galileo’s prime and extended missions.

No Data Returned

Design Detail

BTG=21.86 MB, TICS=1268, FMT=LPU

LM, 1 scan.

Single swath regional map.

Fixed Long Map (XLM), Gain 4, Grating Start 0, LPU, CLM253

Galileo Activity Plan Form	**12/01/00 00:00:00**	**rev 6/95**

48.133 01-147 22:39:51.466

NIMS Chopper Off

ACTIVITY ID: 30NNCHOPOF01-
START TIME: 01-147/22:34:48.133

Activity ID: Orbit 30 Target N Inst N OAPEL CHOPOF SeqNo 01 -

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

Time System	CDS	Load ID		Calendar Date	05/27/01 Week 21
Start	JEE+CDS 00000000:00:0	01-147/22:34:48.133		JEE+000/00:00:00.000	
End	JEE+CDS 00000000:00:0	01-147/22:39:51.466		JEE+000/00:00:00.000	
Duration	00000000:00:0	000/00:05:03.333		000/00:00:00.000	

Top Label	30NNCHOPOF01-				
Bottom Label					
Plot Key	NIMS	Type	SCI		
CDS Bytes	300	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Turn off NIMS Chopper.

Design Detail

BTG=2.09 MB, TICS=796, FMT=MPW, LM

Galileo Activity Plan Form 12/01/00 00:00:00 rev 6/95

NIMS RCT Real Time Calibration — **ACTIVITY ID: 30NNRCTRLT01-** / **START TIME: 01-191/07:26:07.400**

Activity ID: Orbit 30 Target N Inst N OAPEL RCTRLT SeqNo 01 -

Title	**NIMS RCT Real Time Calibration**	**Instrument**	**NIMS**
Requestor	**NIMS-AWG/K. BAINES**	**Team NIMS**	**Working Group AWG**

Time System	**CDS**	**Load ID**	**Calendar Date**	**07/10/00**	**Week 28**
Start	**RTA+CDS**	**00000000:00:0**	**00-191/07:26:07.400**	**RTA+000/00:00:00.000**	
End	**RTA+CDS**	**00000000:00:0**	**00-191/20:36:49.400**	**RTA+000/00:00:00.000**	
Duration		**00000000:00:0**	**000/13:10:42.000**	**000/00:00:00.000**	

Top Label	**30NNRCTRLT01-**				
Bottom Label					
Plot Key	**NIMS**	**Type**	**SCI**		
CDS Bytes	**450**	**Report Options**	**BOTH**	**Scan Platform**	**No**
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 RCT Heaters cannot be on while that scan platform is in use.
The RCT calibration Library Sequence has been modified to turn off
the RCT heaters before slewing to zero cone to observe.
Hence the RCT is observed as it cools, instead of at a steady temperature.

This is a GMM 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) Turn off RCT Heaters.
6) Slew to RCT (cone = 0.0), return 8 grating cycles (12 mf) in R/T
7) Slew to Dark (cone = 119.7), return 2 grating cycle (12 mf) in R/T
8) Slew to Safe (cone = 153.0)
9) Set NIMS to Safe Mode and turn off Chopper.
10) Resume Playback after using scan platform.

Fixed Long Map (XLM), Gain 1, Grating Start 0, R/T, RCT252

Galileo Activity Plan Form — **05/31/00 10:48:23 rev 1/99**