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 first four OAPEls, IDUSROTATI01, IDUSROTATI02, IDUNROTATI03 and IDUNROTATI04 each cover a complete rotation of Ida. These OAPELs are further sub-divided into multiple OAPELs which cover specific rotational phases of IDA. There is only one Pointer plot for each of these four rotation OAPELs.

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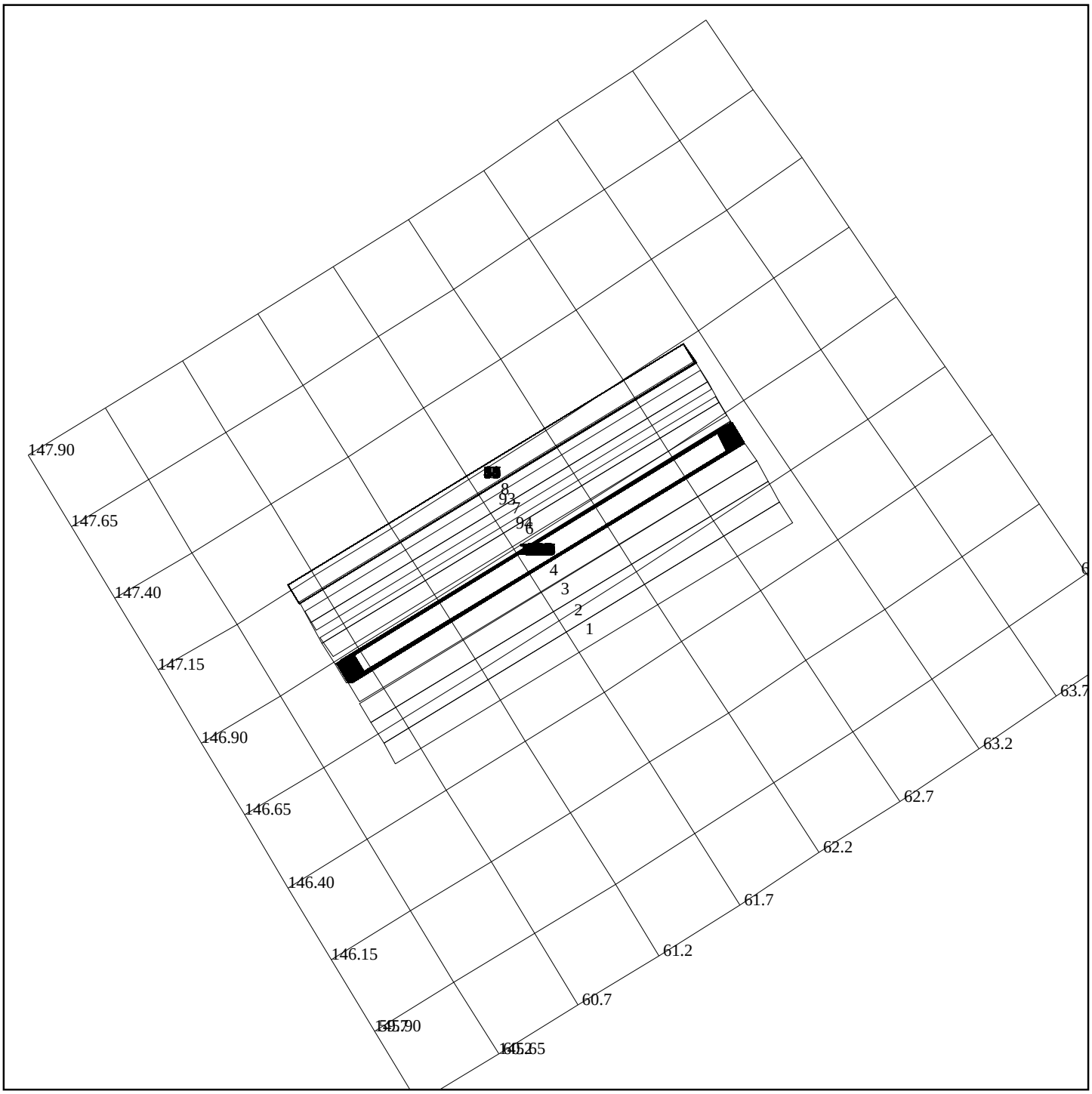


IDUSROTATI01

POINTER E1.0 lisac: 7/20/1993 16:39: 0
Modes: XM,FM,SM, Gain 4, Chop Ref, Gr_Off 4

FILE:P.IDUSROTATI01
Multiple Observations, Multiple NIMS Modes.

CENTRAL BODY:PLUTO

MINI:/home/lisac/ej3seq/NIMS/m.ej03ab
Mosaic Start: Cone: 146.9, Clock: 61.8

S/C EPH:/DATA/EPH/IDA22-050593.t
Combination of CSMOS and SMOS

PERIAPSIS:93-240/16:53:00.000
Plot Ref Time: Start of First Mosaic (TARGET)

START:IEE 93-240/16:52:04.066 -CDS 322:00:0
Lat, Lon, Range, Res, Phase: (-56.9, 190.4, 241486, 121, 19)

OBSERVATION:IDUSROTATI01
DESCRIP:ROTATION MOVIE 1

Ida Rotation Uncertainty Reduction Obs	ACTIVITY ID: IDUNRTURXM01+ START TIME: 93-240/11:26:30

Activity ID: Orbit ID Target U Inst N OAPEL RTURXM SeqNo 01 Multi +

Title Ida Rotation Uncertainty Reduction Obs Instrument NIMS

Requestor M. Segura Team NIMS Working Group SWG

Time System CDS Load ID EJ3 Calendar Date 08/28/93 Week 34

Start	IEE-CDS 00000322:00:0	93-240/11:26:30	IEE-000/05:25:34
End	IEE-CDS 00000321:00:0	93-240/11:27:30	IEE-000/05:24:34
Duration	00000001:00:0	000/00:01:00	000/00:01:00

Top Label IDUNRTURXM01+
Bottom Label

Plot Key	NIMS	Riding Plot Key	Conflict Yes
CDS Bytes	0	Report Options	Real Time Activity No

Observation Objective

To acquire NIMS data in Fixed Map mode - 17 wavelengths for the purpose of reducing the target/pointing uncertainty of the rotation observations.

Design Detail

Alias IDUSROTATI01

One NIMS scan at .75 mrad/sec across the error ellipse to be used for locating IDA in SSI frames. This will reduce tape recorder/playback overhead planned in the current strategy.

Fixed Map (XM), Gain 4, Grating Start 6, Chopper Ref, MPW

Last Changed 05/22/95 Changed By FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida Rotation 90 deg Full Map Observati	ACTIVITY ID: IDUNRT90FM01+ START TIME: 93-240/11:55:49

Activity ID:	Orbit ID	Target U	Inst N	OAPEL RT90FM	SeqNo 01 Multi +
Title	Ida Rotation 90 deg Full Map Observati			Instrument	NIMS
Requestor	M. Segura		Team NIMS	Working Group	SWG

Time System	CDS	Load ID EJ3	Calendar Date 08/28/93	Week 34
Start	IEE-CDS 00000293:00:0	93-240/11:55:49	IEE-000/04:56:15	
End	IEE-CDS 00000290:00:0	93-240/11:58:51	IEE-000/04:53:13	
Duration	00000003:00:0	000/00:03:02	000/00:03:02	

Top Label	IDUNRT90FM01+				
Bottom Label					
Plot Key	NIMS	Riding Plot Key		Conflict	Yes
CDS Bytes	0	Report Options		Real Time Activity	No

Observation Objective

NIMS will perform a full map spectral (204 wavelengths), disk image of Ida at every 90 degrees of rotation for a period of 360 degrees. This is the first of 4 observations.

Design Detail

Alias IDUSROTATI01

One NIMS scan across the error ellipse at a sampling rate of 0.05 mrad/sec in full map mode.

Full Map (FM), Gain 4, Grating Start 0, Chopper Ref, MPW

Last Changed	05/22/95	Changed By	FEL	08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida 15 deg Rotation Observation	**ACTIVITY ID: IDUNRT15SM01+** **START TIME: 93-240/12:06:56**

Activity ID: Orbit ID Target U Inst N OAPEL RT15SM SeqNo 01 Multi +

Title	**Ida 15 deg Rotation Observation**	**Instrument**	**NIMS**
Requestor	**M. Segura**	**Team NIMS Working Group**	**SWG**

Time System	**CDS**	**Load ID**	**EJ3**	**Calendar Date**	**08/28/93 Week 34**
Start	**IEE-CDS**	**00000282:00:0**	**93-240/12:06:56**		**IEE-000/04:45:08**
End	**IEE-CDS**	**00000278:50:0**	**93-240/12:10:26**		**IEE-000/04:41:38**
Duration		**00000003:41:0**	**000/00:03:30**		**000/00:03:30**

Top Label	**IDUNRT15SM01+**		
Bottom Label			
Plot Key	**NIMS**	**Riding Plot Key**	**Conflict Yes**
CDS Bytes	**0**	**Report Options**	**Real Time Activity No**

Observation Objective

To obtain NIMS spectral data in 102 wavelengths at each 15 degrees of rotation in a 360 degree period. This is the first of twelve observations of this nature

Design Detail

Alias IDUSROTATI01

One NIMS scan across the error ellipse plus pointing uncertainty at a sampling rate of 0.09 mrad/sec in short map 102 wavelength mode.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 Changed By FEL **08/12/93 11:53:02**

Galileo Activity Plan Form **rev 5/95**

Ida Rotation 30 deg Observation	ACTIVITY ID: IDUNRT30SM01+ START TIME: 93-240/12:19:04

Activity ID:	Orbit ID	Target U	Inst N	OAPEL RT30SM	SeqNo 01 Multi +
Title	Ida Rotation 30 deg Observation			Instrument	NIMS
Requestor	M. Segura		Team NIMS	Working Group	SWG

Time System	CDS	Load ID EJ3	Calendar Date 08/28/93	Week 34
Start	IEE-CDS 00000270:00:0	93-240/12:19:04	IEE-000/04:33:00	
End	IEE-CDS 00000267:00:0	93-240/12:22:06	IEE-000/04:29:58	
Duration	00000003:00:0	000/00:03:02	000/00:03:02	

Top Label	IDUNRT30SM01+		
Bottom Label			
Plot Key	NIMS	Riding Plot Key	Conflict Yes
CDS Bytes	0	Report Options	Real Time Activity No

Observation Objective

To acquire NIMS spectral data in 102 wavelengths at every 30 degrees of rotation in a 360 degree period. This is the first observation in a series of eight.

Design Detail

Alias IDUSROTATI01

One NIMS scan across the error ellipse at a sampling rate of 0.09 mrad/sec in 102 wavelengths.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed	05/22/95	Changed By	FEL	08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida 15 deg Rotation Observation	**ACTIVITY ID: IDUNRT15SM02+** **START TIME: 93-240/12:30:12**

Activity ID: Orbit ID Target U Inst N OAPEL RT15SM SeqNo 02 Multi +

Title Ida 15 deg Rotation Observation **Instrument** NIMS

Requestor M. Segura **Team** NIMS **Working Group** SWG

Time System CDS **Load ID** EJ3 **Calendar Date** 08/28/93 **Week** 34

Start	**IEE-CDS 00000259:00:0**	**93-240/12:30:12**	**IEE-000/04:21:52**
End	**IEE-CDS 00000255:50:0**	**93-240/12:33:41**	**IEE-000/04:18:23**
Duration	**00000003:41:0**	**000/00:03:29**	**000/00:03:29**

Top Label IDUNRT15SM02+
Bottom Label

Plot Key	**NIMS**	**Riding Plot Key**	**Conflict** **Yes**
CDS Bytes	**0**	**Report Options**	**Real Time Activity** **No**

Observation Objective

To obtain NIMS spectral data in 102 wavelengths at each 15 degrees of rotation in a 360 degree period. This is the second of twelve observations of this nature

Design Detail

Alias IDUSROTATI01

One NIMS scan across the error ellipse plus pointing uncertainty at a sampling rate of 0.09 mrad/sec in short map 102 wavelength mode.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 **Changed By** FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida Rotation 30 deg Observation	**ACTIVITY ID: IDUNRT30SM02+** **START TIME: 93-240/12:42:20**

Activity ID: Orbit ID Target U Inst N OAPEL RT30SM SeqNo 02 Multi +

Title Ida Rotation 30 deg Observation **Instrument** NIMS

Requestor M. Segura **Team** NIMS **Working Group** SWG

Time System CDS **Load ID** EJ3 **Calendar Date** 08/28/93 **Week** 34

Start	IEE-CDS 00000247:00:0	93-240/12:42:20	IEE-000/04:09:44
End	IEE-CDS 00000244:00:0	93-240/12:45:22	IEE-000/04:06:42
Duration	00000003:00:0	000/00:03:02	000/00:03:02

Top Label IDUNRT30SM02+
Bottom Label

Plot Key	NIMS	Riding Plot Key	Conflict Yes
CDS Bytes	0	Report Options	Real Time Activity No

Observation Objective

To acquire NIMS spectral data in 102 wavelengths at every 30 degrees of rotation in a 360 degree period. This is the second observation in a series of eight.

Design Detail

Alias IDUSROTATI01

One NIMS scan across the error ellipse at a sampling rate of 0.09 mrad/sec in 102 wavelengths.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 **Changed By** FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida 15 deg Rotation Observation	**ACTIVITY ID: IDUNRT15SM03+** **START TIME: 93-240/12:53:27**

Activity ID: Orbit ID Target U Inst N OAPEL RT15SM SeqNo 03 Multi +

Title Ida 15 deg Rotation Observation **Instrument** NIMS

Requestor M. Segura **Team** NIMS **Working Group** SWG

Time System CDS **Load ID** EJ3 **Calendar Date** 08/28/93 **Week** 34

Start	**IEE-CDS 00000236:00:0**	**93-240/12:53:27**	**IEE-000/03:58:37**
End	**IEE-CDS 00000232:50:0**	**93-240/12:56:56**	**IEE-000/03:55:08**
Duration	**00000003:41:0**	**000/00:03:29**	**000/00:03:29**

Top Label IDUNRT15SM03+
Bottom Label

Plot Key	**NIMS**	**Riding Plot Key**	**Conflict** **Yes**
CDS Bytes	**0**	**Report Options**	**Real Time Activity** **No**

Observation Objective

To obtain NIMS spectral data in 102 wavelengths at each 15 degrees of rotation in a 360 degree period. This is the third of twelve observations of this nature

Design Detail

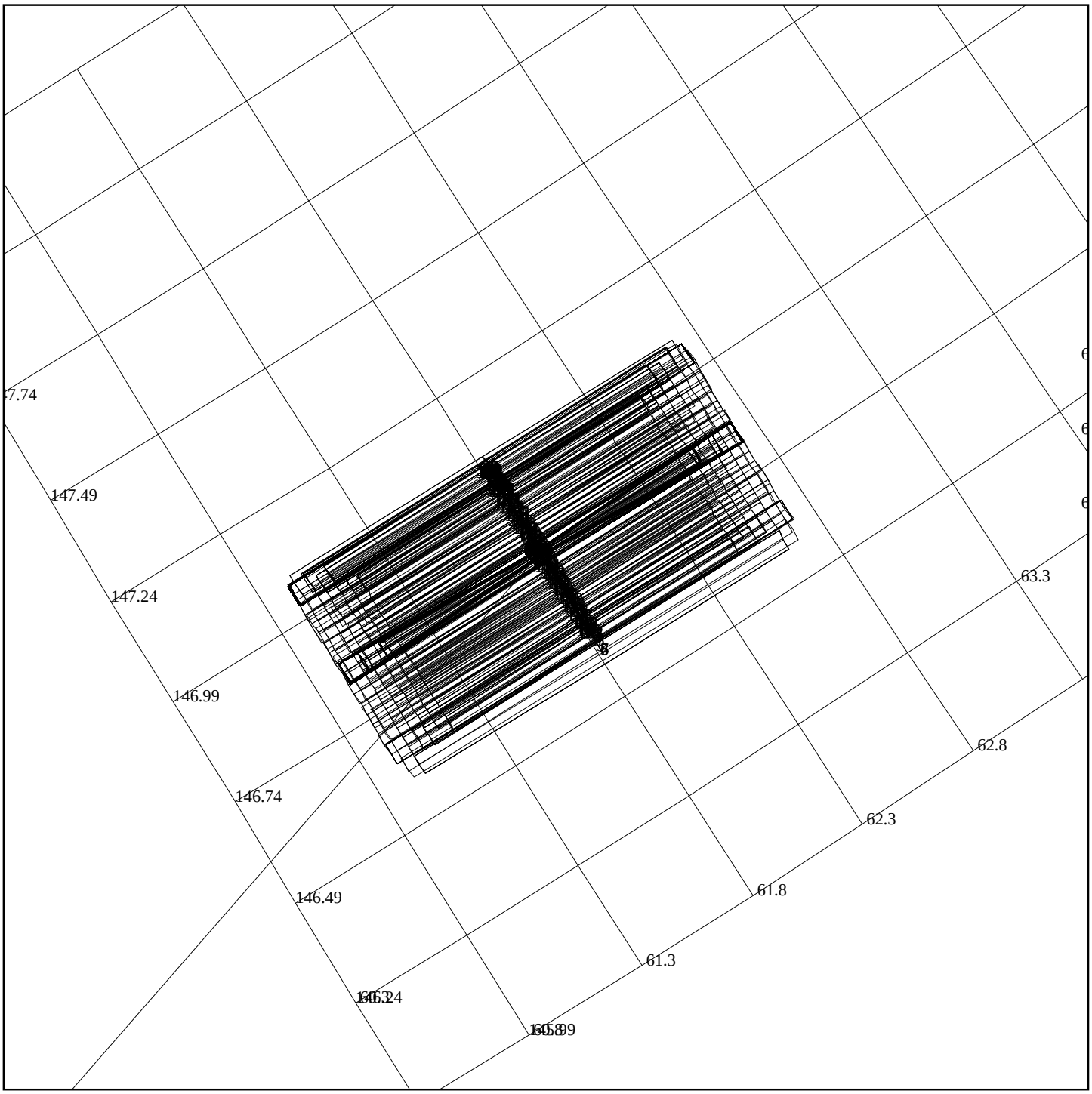
Alias IDUSROTATI01

One NIMS scan across the error ellipse plus pointing uncertainty at a sampling rate of 0.09 mrad/sec in short map 102 wavelength mode.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 **Changed By** FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95



IDUSROTATI02

POINTER E1.0 lisac: 7/20/1993 9: 8:32
FILE:P.IDUSROTATI02
CENTRAL BODY:PLUTO
MINI:m.IDUSROTATI02
S/C EPH:/DATA/EPH/IDA22-050593.t
PERIAPSIS:93-240/16:53:00.000
START:IEE 93-240/16:52:04.066 -CDS 230:00:0
OBSERVATION:IDUSROTATI02

Modes: XM,SM, Gain 4, Chop Ref, Gr_Off 4
Multiple Observations, Multiple NIMS Modes.

Mosaic Start: Cone: 146.7, Clock: 61.8
Combination of CSMOS and SMOS
Plot Ref Time: Start of First Mosaic (TARGET)
Lat, Lon, Range, Res, Phase: (-55.9, 194.8, 170903, 85, 20)
DESCRIP:ROTATION MOVIE 2

Ida Rotation Uncertainty Reduction Obs	ACTIVITY ID: IDUNRTURXM02+ START TIME: 93-240/12:57:30

Activity ID:	Orbit ID	Target U	Inst N	OAPEL RTURXM	SeqNo 02 Multi +
Title	Ida Rotation Uncertainty Reduction Obs			Instrument	NIMS
Requestor	M. Segura		Team NIMS	Working Group	SWG

Time System	CDS	Load ID	EJ3	Calendar Date	08/28/93 Week 34
Start	IEE-CDS	00000232:00:0	93-240/12:57:30		IEE-000/03:54:34
End	IEE-CDS	00000230:00:0	93-240/12:59:31		IEE-000/03:52:33
Duration		00000002:00:0	000/00:02:01		000/00:02:01

Top Label	IDUNRTURXM02+		
Bottom Label			
Plot Key	NIMS	Riding Plot Key	Conflict Yes
CDS Bytes	0	Report Options	Real Time Activity No

Observation Objective

To acquire NIMS data in Fixed Map mode - 17 wavelengths for the purpose of reducing the target/pointing uncertainty of the rotation observations.

Design Detail

Alias IDUSROTATI02

One NIMS scan at .75 mrad/sec across the error ellipse to be used for locating IDA in SSI frames. This will reduce tape recorder/playback overhead planned in the current strategy.

Fixed Map (XM), Gain 4, Grating Start 6, Chopper Ref, MPW

Last Changed	05/22/95	Changed By FEL	08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida Rotation 90 deg Full Map Observati	ACTIVITY ID: IDUNRT90FM02+ START TIME: 93-240/13:05:35

Activity ID:	Orbit ID	Target U	Inst N	OAPEL RT90FM	SeqNo 02 Multi +
Title	Ida Rotation 90 deg Full Map Observati			Instrument	NIMS
Requestor	M. Segura		Team NIMS	Working Group	SWG

Time System	CDS	Load ID EJ3	Calendar Date 08/28/93	Week 34
Start	IEE-CDS 00000224:00:0	93-240/13:05:35	IEE-000/03:46:29	
End	IEE-CDS 00000221:00:0	93-240/13:08:37	IEE-000/03:43:27	
Duration	00000003:00:0	000/00:03:02	000/00:03:02	

Top Label	IDUNRT90FM02+				
Bottom Label					
Plot Key	NIMS	Riding Plot Key		Conflict	Yes
CDS Bytes	0	Report Options		Real Time Activity	No

Observation Objective

NIMS will perform a full map spectral (204 wavelengths), disk image of Ida at every 90 degrees of rotation for a period of 360 degrees.
This is the second of 4 observations.
This observation will use short map mode instead of full map mode to achieve double nyquist sampling.

Design Detail

Alias IDUSROTATI02

One NIMS scan across the error ellipse at a sampling rate of 0.05 mrad/sec in short map mode. This is the nyquist rate for full map mode and double nyquist rate for short map mode.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed	05/22/95	Changed By	FEL	08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida 15 deg Rotation Observation	**ACTIVITY ID: IDUNRT15SM04+** **START TIME: 93-240/13:16:42**

Activity ID: Orbit ID Target U Inst N OAPEL RT15SM SeqNo 04 Multi +

Title Ida 15 deg Rotation Observation **Instrument** NIMS

Requestor M. Segura **Team** NIMS **Working Group** SWG

Time System CDS **Load ID** EJ3 **Calendar Date** 08/28/93 **Week** 34

Start	**IEE-CDS 00000213:00:0**	**93-240/13:16:42**	**IEE-000/03:35:22**
End	**IEE-CDS 00000209:50:0**	**93-240/13:20:12**	**IEE-000/03:31:52**
Duration	**00000003:41:0**	**000/00:03:30**	**000/00:03:30**

Top Label IDUNRT15SM04+
Bottom Label

Plot Key	**NIMS**	**Riding Plot Key**	**Conflict** **Yes**
CDS Bytes	**0**	**Report Options**	**Real Time Activity** **No**

Observation Objective

To obtain NIMS spectral data in 102 wavelengths at each 15 degrees of rotation in a 360 degree period. This is the fourth of twelve observations of this nature

Design Detail

Alias IDUSROTATI02

One NIMS scan across the error ellipse plus pointing uncertainty at a sampling rate of 0.09 mrad/sec in short map 102 wavelength mode.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 **Changed By** FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida Rotation 30 deg Observation	**ACTIVITY ID: IDUNRT30SM03+** **START TIME: 93-240/13:28:50**

Activity ID: Orbit ID Target U Inst N OAPEL RT30SM SeqNo 03 Multi +

Title	**Ida Rotation 30 deg Observation**	**Instrument**	**NIMS**
Requestor	**M. Segura**	**Team NIMS**	**Working Group SWG**

Time System	**CDS**	**Load ID**	**EJ3**	**Calendar Date**	**08/28/93 Week 34**
Start	**IEE-CDS**	**00000201:00:0**	**93-240/13:28:50**		**IEE-000/03:23:14**
End	**IEE-CDS**	**00000198:00:0**	**93-240/13:31:52**		**IEE-000/03:20:12**
Duration		**00000003:00:0**	**000/00:03:02**		**000/00:03:02**

Top Label	**IDUNRT30SM03+**		
Bottom Label			
Plot Key	**NIMS**	**Riding Plot Key**	**Conflict Yes**
CDS Bytes	**0**	**Report Options**	**Real Time Activity No**

Observation Objective

To acquire NIMS spectral data in 102 wavelengths at every 30 degrees of rotation in a 360 degree period. This is the third observation in a series of eight.

Design Detail

Alias IDUSROTATI02

One NIMS scan across the error ellipse at a sampling rate of 0.09 mrad/sec in 102 wavelengths.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 Changed By FEL **08/12/93 11:53:02**

Galileo Activity Plan Form **rev 5/95**

Ida 15 deg Rotation Observation — **ACTIVITY ID: IDUNRT15SM05+** / **START TIME: 93-240/13:39:58**

Activity ID: Orbit ID Target U Inst N OAPEL RT15SM SeqNo 05 Multi +

Title Ida 15 deg Rotation Observation — **Instrument** NIMS

Requestor M. Segura — **Team** NIMS — **Working Group** SWG

Time System CDS — **Load ID** EJ3 — **Calendar Date** 08/28/93 — **Week** 34

Start	IEE-CDS 00000190:00:0	93-240/13:39:58	IEE-000/03:12:06
End	IEE-CDS 00000186:50:0	93-240/13:43:27	IEE-000/03:08:37
Duration	00000003:41:0	000/00:03:29	000/00:03:29

Top Label IDUNRT15SM05+
Bottom Label

Plot Key NIMS — **Riding Plot Key** — **Conflict** Yes
CDS Bytes 0 — **Report Options** — **Real Time Activity** No

Observation Objective

To obtain NIMS spectral data in 102 wavelengths at each 15 degrees of rotation in a 360 degree period. This is the fifth of twelve observations of this nature

Design Detail

Alias IDUSROTATI02

One NIMS scan across the error ellipse plus pointing uncertainty at a sampling rate of 0.09 mrad/sec in short map 102 wavelength mode.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 **Changed By** FEL — 08/12/93 11:53:02

Galileo Activity Plan Form — rev 5/95

Ida Rotation 30 deg Observation	**ACTIVITY ID: IDUNRT30SM04+** **START TIME: 93-240/13:52:06**

Activity ID: Orbit ID Target U Inst N OAPEL RT30SM SeqNo 04 Multi +

Title Ida Rotation 30 deg Observation **Instrument** NIMS

Requestor M. Segura **Team** NIMS **Working Group** SWG

Time System CDS **Load ID** EJ3 **Calendar Date** 08/28/93 **Week** 34

Start	IEE-CDS 00000178:00:0	93-240/13:52:06	IEE-000/02:59:58
End	IEE-CDS 00000175:00:0	93-240/13:55:08	IEE-000/02:56:56
Duration	00000003:00:0	000/00:03:02	000/00:03:02

Top Label IDUNRT30SM04+
Bottom Label

Plot Key	NIMS	Riding Plot Key	Conflict Yes
CDS Bytes	0	Report Options	Real Time Activity No

Observation Objective

To acquire NIMS spectral data in 102 wavelengths at every 30 degrees of rotation in a 360 degree period. This is the fourth observation in a series of eight.

Design Detail

Alias IDUSROTATI02

One NIMS scan across the error ellipse at a sampling rate of 0.09 mrad/sec in 102 wavelengths.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 **Changed By** FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida 15 deg Rotation Observation	**ACTIVITY ID: IDUNRT15SM06+** **START TIME: 93-240/14:03:13**

Activity ID: Orbit ID Target U Inst N OAPEL RT15SM SeqNo 06 Multi +

Title	**Ida 15 deg Rotation Observation**	**Instrument**	**NIMS**
Requestor	**M. Segura**	**Team NIMS Working Group**	**SWG**

Time System	**CDS**	**Load ID**	**EJ3**	**Calendar Date**	**08/28/93 Week 34**
Start	**IEE-CDS 00000167:00:0**		**93-240/14:03:13**		**IEE-000/02:48:51**
End	**IEE-CDS 00000163:50:0**		**93-240/14:06:42**		**IEE-000/02:45:22**
Duration	**00000003:41:0**		**000/00:03:29**		**000/00:03:29**

Top Label	**IDUNRT15SM06+**		
Bottom Label			
Plot Key	**NIMS**	**Riding Plot Key**	**Conflict Yes**
CDS Bytes	**0**	**Report Options**	**Real Time Activity No**

Observation Objective

To obtain NIMS spectral data in 102 wavelengths at each 15 degrees of rotation in a 360 degree period. This is the sixth of twelve observations of this nature

Design Detail

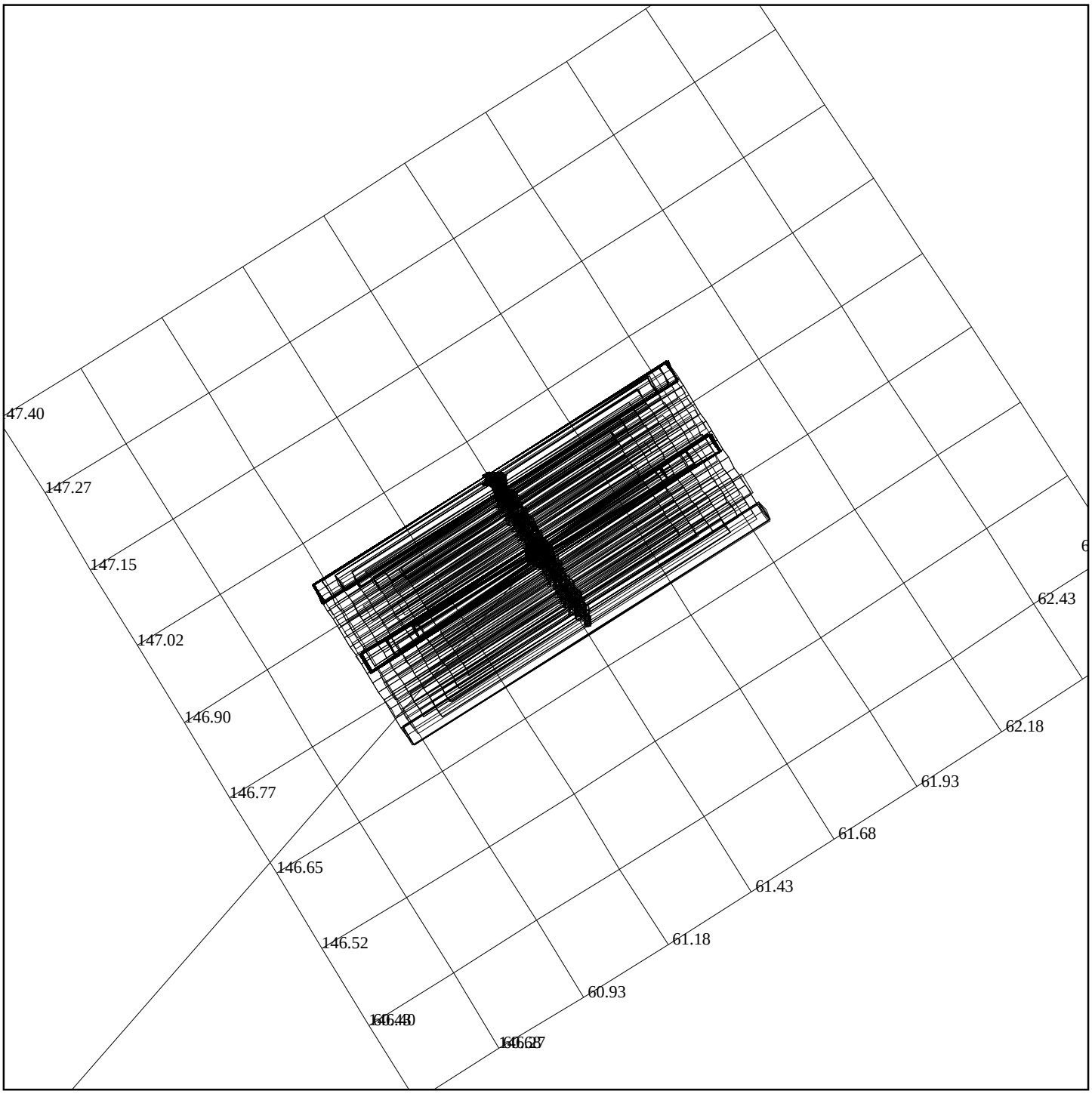
Alias IDUSROTATI02

One NIMS scan across the error ellipse plus pointing uncertainty at a sampling rate of 0.09 mrad/sec in short map 102 wavelength mode.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 Changed By FEL **08/12/93 11:53:02**

Galileo Activity Plan Form **rev 5/95**



IDUNROTATI03

POINTER E1.0 lisac: 7/20/1993 9: 8:32
FILE:P.IDUNROTATI03
CENTRAL BODY:PLUTO
MINI:m.IDUNROTATI03
S/C EPH:/DATA/EPH/IDA22-050593.t
PERIAPSIS:93-240/16:53:00.000
START:IEE 93-240/16:52:04.066 -CDS 162:00:0
OBSERVATION:IDUNROTATI03

Modes: XM,FM,SM, Gain 4, Chop Ref, Gr_Off 4
Multiple Observations, Multiple NIMS Modes.

Mosaic Start: Cone: 146.8, Clock: 61.5
Combination of CSMOS and SMOS
Plot Ref Time: Start of First Mosaic (TARGET)
Lat, Lon, Range, Res, Phase: (-54.6, 198.7, 118901, 59, 20)
DESCRIP:ROTATION MOVIE 3

Ida Rotation Uncertainty Reduction Obs	ACTIVITY ID: IDUNRTURXM03+ START TIME: 93-240/14:08:16

Activity ID:	Orbit ID	Target U	Inst N	OAPEL RTURXM	SeqNo 03 Multi +
Title	Ida Rotation Uncertainty Reduction Obs			Instrument	NIMS
Requestor	M. Segura		Team NIMS	Working Group	SWG

Time System	CDS	Load ID	EJ3	Calendar Date	08/28/93 Week 34
Start	IEE-CDS 00000162:00:0		93-240/14:08:16		IEE-000/02:43:48
End	IEE-CDS 00000160:00:0		93-240/14:10:18		IEE-000/02:41:46
Duration	00000002:00:0		000/00:02:02		000/00:02:02

Top Label	IDUNRTURXM03+		
Bottom Label			
Plot Key	NIMS	Riding Plot Key	Conflict Yes
CDS Bytes	0	Report Options	Real Time Activity No

Observation Objective

To acquire NIMS data in Fixed Map mode - 17 wavelengths for the purpose of reducing the target/pointing uncertainty of the rotation observations.

Design Detail

Alias IDUNROTATI03

One NIMS scan at .75 mrad/sec across the error ellipse to be used for locating IDA in SSI frames. This will reduce tape recorder/playback overhead planned in the current strategy.

Fixed Map (XM), Gain 4, Grating Start 6, Chopper Ref, MPW

Last Changed	05/22/95	Changed By	FEL	08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida Rotation 90 deg Full Map Observati	ACTIVITY ID: IDUNRT90FM03+ START TIME: 93-240/14:15:21

Activity ID:	Orbit ID	Target U	Inst N	OAPEL RT90FM	SeqNo 03 Multi +
Title	Ida Rotation 90 deg Full Map Observati			Instrument	NIMS
Requestor	M. Segura		Team NIMS	Working Group	SWG

Time System	CDS	Load ID EJ3	Calendar Date 08/28/93	Week 34
Start	IEE-CDS 00000155:00:0	93-240/14:15:21	IEE-000/02:36:43	
End	IEE-CDS 00000152:00:0	93-240/14:18:23	IEE-000/02:33:41	
Duration	00000003:00:0	000/00:03:02	000/00:03:02	

Top Label	IDUNRT90FM03+		
Bottom Label			
Plot Key	NIMS	Riding Plot Key	Conflict Yes
CDS Bytes	0	Report Options	Real Time Activity No

Observation Objective

NIMS will perform a full map spectral (204 wavelengths), disk image of Ida at every 90 degrees of rotation for a period of 360 degrees. This is the third of 4 observations.

Design Detail

Alias IDUNROTATI03

One NIMS scan across the error ellipse at a sampling rate of 0.05 mrad/sec in full map mode.

Full Map (FM), Gain 4, Grating Start 0, Chopper Ref, MPW

Last Changed	05/22/95	Changed By	FEL	08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida 15 deg Rotation Observation	**ACTIVITY ID: IDUNRT15SM07+** **START TIME: 93-240/14:26:28**

Activity ID: Orbit ID Target U Inst N OAPEL RT15SM SeqNo 07 Multi +

Title	**Ida 15 deg Rotation Observation**	**Instrument**	**NIMS**
Requestor	**M. Segura**	**Team NIMS Working Group**	**SWG**

Time System	**CDS**	**Load ID**	**EJ3**	**Calendar Date**	**08/28/93 Week 34**
Start	**IEE-CDS 00000144:00:0**		**93-240/14:26:28**		**IEE-000/02:25:36**
End	**IEE-CDS 00000140:50:0**		**93-240/14:29:58**		**IEE-000/02:22:06**
Duration	**00000003:41:0**		**000/00:03:30**		**000/00:03:30**

Top Label	**IDUNRT15SM07+**		
Bottom Label			
Plot Key	**NIMS**	**Riding Plot Key**	**Conflict Yes**
CDS Bytes	**0**	**Report Options**	**Real Time Activity No**

Observation Objective

To obtain NIMS spectral data in 102 wavelengths at each 15 degrees of rotation in a 360 degree period. This is the seventh of twelve observations of this nature

Design Detail

Alias IDUNROTATI03

One NIMS scan across the error ellipse plus pointing uncertainty at a sampling rate of 0.09 mrad/sec in short map 102 wavelength mode.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 Changed By FEL **08/12/93 11:53:02**

Galileo Activity Plan Form **rev 5/95**

Ida Rotation 30 deg Observation	**ACTIVITY ID: IDUNRT30SM05+** **START TIME: 93-240/14:38:36**

Activity ID: Orbit ID Target U Inst N OAPEL RT30SM SeqNo 05 Multi +

Title	**Ida Rotation 30 deg Observation**	**Instrument**	**NIMS**
Requestor	**M. Segura**	**Team**	**NIMS**
		Working Group	**SWG**

Time System	**CDS**	**Load ID**	**EJ3**	**Calendar Date**	**08/28/93**
					Week 34
Start	**IEE-CDS**	**00000132:00:0**	**93-240/14:38:36**	**IEE-000/02:13:28**	
End	**IEE-CDS**	**00000129:00:0**	**93-240/14:41:38**	**IEE-000/02:10:26**	
Duration		**00000003:00:0**	**000/00:03:02**	**000/00:03:02**	

Top Label	**IDUNRT30SM05+**		
Bottom Label			
Plot Key	**NIMS**	**Riding Plot Key**	
CDS Bytes	**0**	**Report Options**	
Conflict	**Yes**		
Real Time Activity	**No**		

Observation Objective

To acquire NIMS spectral data in 102 wavelengths at every 30 degrees of rotation in a 360 degree period. This is the fifth observation in a series of eight.

Design Detail

Alias IDUNROTATI03

One NIMS scan across the error ellipse at a sampling rate of 0.09 mrad/sec in 102 wavelengths.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed	**05/22/95**	**Changed By**	**FEL**	**08/12/93 11:53:02**

Galileo Activity Plan Form **rev 5/95**

Ida 15 deg Rotation Observation — **ACTIVITY ID: IDUNRT15SM08+** / **START TIME: 93-240/14:49:44**

Activity ID: Orbit ID | Target U | Inst N | OAPEL RT15SM | SeqNo 08 | Multi +

Title Ida 15 deg Rotation Observation — **Instrument** NIMS

Requestor M. Segura — **Team** NIMS — **Working Group** SWG

Time System CDS — **Load ID** EJ3 — **Calendar Date** 08/28/93 — **Week** 34

Start	IEE-CDS 00000121:00:0	93-240/14:49:44	IEE-000/02:02:20
End	IEE-CDS 00000117:50:0	93-240/14:53:13	IEE-000/01:58:51
Duration	00000003:41:0	000/00:03:29	000/00:03:29

Top Label IDUNRT15SM08+
Bottom Label

Plot Key NIMS — **Riding Plot Key** — **Conflict** Yes
CDS Bytes 0 — **Report Options** — **Real Time Activity** No

Observation Objective

To obtain NIMS spectral data in 102 wavelengths at each 15 degrees of rotation in a 360 degree period. This is the eighth of twelve observations of this nature

Design Detail

Alias IDUNROTATI03

One NIMS scan across the error ellipse plus pointing uncertainty at a sampling rate of 0.09 mrad/sec in short map 102 wavelength mode.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 — **Changed By** FEL — 08/12/93 11:53:02

Galileo Activity Plan Form — rev 5/95

Ida Rotation 30 deg Observation	**ACTIVITY ID: IDUNRT30SM06+** **START TIME: 93-240/15:01:52**

Activity ID: Orbit ID Target U Inst N OAPEL RT30SM SeqNo 06 Multi +

Title	**Ida Rotation 30 deg Observation**	**Instrument**	**NIMS**
Requestor	**M. Segura**	**Team NIMS**	**Working Group SWG**

Time System	**CDS**	**Load ID**	**EJ3**	**Calendar Date**	**08/28/93 Week 34**
Start	**IEE-CDS**	**00000109:00:0**	**93-240/15:01:52**		**IEE-000/01:50:12**
End	**IEE-CDS**	**00000106:00:0**	**93-240/15:04:54**		**IEE-000/01:47:10**
Duration		**00000003:00:0**	**000/00:03:02**		**000/00:03:02**

Top Label	**IDUNRT30SM06+**		
Bottom Label			
Plot Key	**NIMS**	**Riding Plot Key**	**Conflict Yes**
CDS Bytes	**0**	**Report Options**	**Real Time Activity No**

Observation Objective

To acquire NIMS spectral data in 102 wavelengths at every 30 degrees of rotation in a 360 degree period. This is the sixth observation in a series of eight.

Design Detail

Alias IDUNROTATI03

One NIMS scan across the error ellipse at a sampling rate of 0.09 mrad/sec in 102 wavelengths.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 Changed By FEL **08/12/93 11:53:02**

Galileo Activity Plan Form **rev 5/95**

Ida 15 deg Rotation Observation	**ACTIVITY ID: IDUNRT15SM09+** **START TIME: 93-240/15:12:59**

Activity ID: Orbit ID Target U Inst N OAPEL RT15SM SeqNo 09 Multi +

Title	**Ida 15 deg Rotation Observation**	**Instrument**	**NIMS**
Requestor	**M. Segura**	**Team NIMS Working Group**	**SWG**

Time System	**CDS**	**Load ID**	**EJ3**	**Calendar Date**	**08/28/93 Week 34**
Start	**IEE-CDS**	**00000098:00:0**	**93-240/15:12:59**		**IEE-000/01:39:05**
End	**IEE-CDS**	**00000094:50:0**	**93-240/15:16:28**		**IEE-000/01:35:36**
Duration		**00000003:41:0**	**000/00:03:29**		**000/00:03:29**

Top Label IDUNRT15SM09+
Bottom Label

Plot Key	**NIMS**	**Riding Plot Key**	**Conflict Yes**
CDS Bytes	**0**	**Report Options**	**Real Time Activity No**

Observation Objective

To obtain NIMS spectral data in 102 wavelengths at each 15 degrees of rotation in a 360 degree period. This is the ninth of twelve observations of this nature

Design Detail

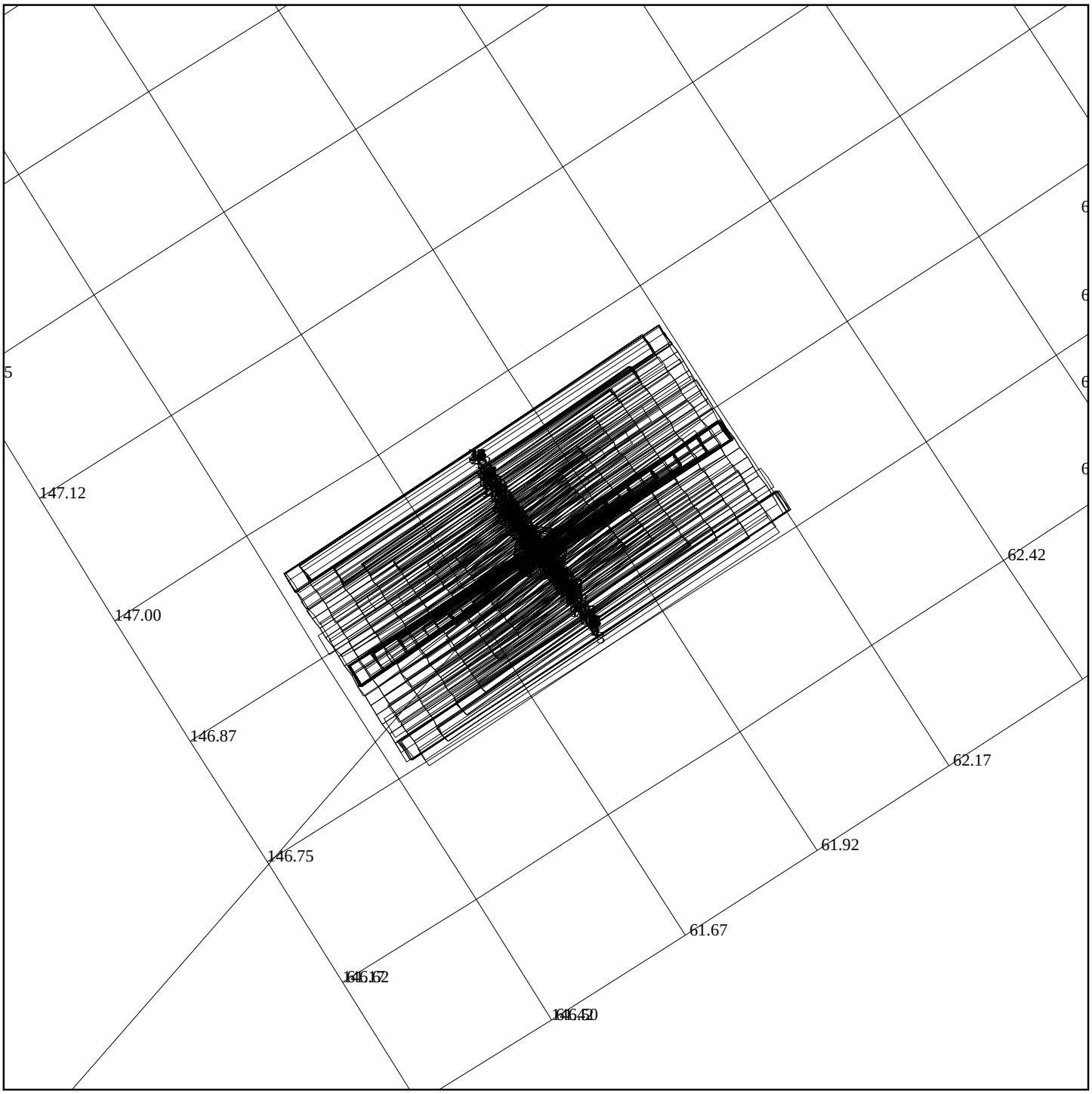
Alias IDUNROTATI03

One NIMS scan across the error ellipse plus pointing uncertainty at a sampling rate of 0.09 mrad/sec in short map 102 wavelength mode.

Short Map (SM), Gain 4, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 **Changed By** FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95



IDUNROTATI04

POINTER E1.0 lisac: 7/20/1993 9: 8:32
FILE:P.IDUNROTATI04
CENTRAL BODY:PLUTO
MINI:m.IDUNROTATI04
S/C EPH:/DATA/EPH/IDA22-050593.t
PERIAPSIS:93-240/16:53:00.000
START:IEE 93-240/16:52:04.066 -CDS 92:00:0
OBSERVATION:IDUNROTATI04

Modes: XM,FM,SM, Gain 4, Chop Ref, Gr_Off 4
Multiple Observations, Multiple NIMS Modes.

Mosaic Start: Cone: 146.8, Clock: 61.9
Combination of CSMOS and SMOS
Plot Ref Time: Start of First Mosaic (TARGET)
Lat, Lon, Range, Res, Phase: (+50.1, 24.9, 69882, 35, 20)
DESCRIP:ROTATION MOVIE 4

Ida Rotation Uncertainty Reduction Obs	ACTIVITY ID: IDUNRTURXM04+ START TIME: 93-240/15:19:03

Activity ID:	Orbit ID	Target U	Inst N	OAPEL RTURXM	SeqNo 04 Multi +
Title	Ida Rotation Uncertainty Reduction Obs			Instrument	NIMS
Requestor	M. Segura		Team NIMS	Working Group	SWG

Time System	CDS	Load ID EJ3		Calendar Date 08/28/93	Week 34
Start	IEE-CDS	00000092:00:0	93-240/15:19:03		IEE-000/01:33:01
End	IEE-CDS	00000091:00:0	93-240/15:20:04		IEE-000/01:32:00
Duration		00000001:00:0	000/00:01:01		000/00:01:01

Top Label	IDUNRTURXM04+		
Bottom Label			
Plot Key	NIMS	Riding Plot Key	Conflict Yes
CDS Bytes	0	Report Options	Real Time Activity No

Observation Objective

To acquire NIMS data in Fixed Map mode - 17 wavelengths for the purpose of reducing the target/pointing uncertainty of the rotation observations.

Design Detail

Alias IDUNROTATI04

One NIMS scan at .75 mrad/sec across the error ellipse to be used for locating IDA in SSI frames. This will reduce tape recorder/playback overhead planned in the current strategy.

Fixed Map (XM), Gain 3, Grating Start 6, Chopper Ref, MPW

Last Changed	05/22/95	Changed By	FEL	08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida Rotation 90 deg Full Map Observati	ACTIVITY ID: IDUNRT90FM04+ START TIME: 93-240/15:25:07

Activity ID:	Orbit ID	Target U	Inst N	OAPEL RT90FM	SeqNo 04 Multi +
Title	Ida Rotation 90 deg Full Map Observati			Instrument	NIMS
Requestor	M. Segura		Team NIMS	Working Group	SWG

Time System	CDS	Load ID EJ3	Calendar Date 08/28/93	Week 34
Start	IEE-CDS 00000086:00:0	93-240/15:25:07	IEE-000/01:26:57	
End	IEE-CDS 00000083:00:0	93-240/15:28:09	IEE-000/01:23:55	
Duration	00000003:00:0	000/00:03:02	000/00:03:02	

Top Label	IDUNRT90FM04+				
Bottom Label					
Plot Key	NIMS	Riding Plot Key		Conflict	Yes
CDS Bytes	0	Report Options		Real Time Activity	No

Observation Objective

NIMS will perform a full map spectral (204 wavelengths), disk image of Ida at every 90 degrees of rotation for a period of 360 degrees. This is the last of 4 observations.

Design Detail

Alias IDUNROTATI04

One NIMS scan across the error ellipse at a sampling rate of 0.05 mrad/sec in full map mode.

Full Map (FM), Gain 3, Grating Start 0, Chopper Ref, MPW

Last Changed	05/22/95	Changed By	FEL	08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida 15 deg Rotation Observation

ACTIVITY ID: IDUNRT15SM10+
START TIME: 93-240/15:36:14

Activity ID: Orbit ID Target U Inst N OAPEL RT15SM SeqNo 10 Multi +

Title Ida 15 deg Rotation Observation **Instrument** NIMS

Requestor M. Segura **Team** NIMS **Working Group** SWG

Time System CDS **Load ID** EJ3 **Calendar Date** 08/28/93 **Week** 34

Start	IEE-CDS 00000075:00:0	93-240/15:36:14	IEE-000/01:15:50
End	IEE-CDS 00000071:50:0	93-240/15:39:44	IEE-000/01:12:20
Duration	00000003:41:0	000/00:03:30	000/00:03:30

Top Label IDUNRT15SM10+
Bottom Label

Plot Key NIMS **Riding Plot Key** **Conflict** Yes
CDS Bytes 0 **Report Options** **Real Time Activity** No

Observation Objective

To obtain NIMS spectral data in 102 wavelengths at each 15 degrees of rotation in a 360 degree period. This is the tenth of twelve observations of this nature

Design Detail

Alias IDUNROTATI04

One NIMS scan across the error ellipse plus pointing uncertainty at a sampling rate of 0.09 mrad/sec in short map 102 wavelength mode.

Short Map (SM), Gain 3, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 **Changed By** FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida Rotation 30 deg Observation	**ACTIVITY ID: IDUNRT30SM07+** **START TIME: 93-240/15:48:22**

Activity ID: Orbit ID Target U Inst N OAPEL RT30SM SeqNo 07 Multi +

Title	**Ida Rotation 30 deg Observation**	**Instrument**	**NIMS**
Requestor	**M. Segura**	**Team NIMS Working Group**	**SWG**

Time System	**CDS**	**Load ID**	**EJ3**	**Calendar Date**	**08/28/93 Week 34**
Start	**IEE-CDS**	**00000063:00:0**	**93-240/15:48:22**		**IEE-000/01:03:42**
End	**IEE-CDS**	**00000060:00:0**	**93-240/15:51:24**		**IEE-000/01:00:40**
Duration		**00000003:00:0**	**000/00:03:02**		**000/00:03:02**

Top Label	**IDUNRT30SM07+**		
Bottom Label			
Plot Key	**NIMS**	**Riding Plot Key**	**Conflict Yes**
CDS Bytes	**0**	**Report Options**	**Real Time Activity No**

Observation Objective

To acquire NIMS spectral data in 102 wavelengths at every 30 degrees of rotation in a 360 degree period. This is the seventh observation in a series of eight.

Design Detail

Alias IDUNROTATI04

One NIMS scan across the error ellipse at a sampling rate of 0.09 mrad/sec in 102 wavelengths.

Short Map (SM), Gain 3, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 **Changed By** FEL **08/12/93 11:53:02**

Galileo Activity Plan Form **rev 5/95**

Ida 15 deg Rotation Observation	**ACTIVITY ID: IDUNRT15SM11+** **START TIME: 93-240/15:59:30**

Activity ID: Orbit ID Target U Inst N OAPEL RT15SM SeqNo 11 Multi +

Title Ida 15 deg Rotation Observation **Instrument** NIMS

Requestor M. Segura **Team** NIMS **Working Group** SWG

Time System CDS **Load ID** EJ3 **Calendar Date** 08/28/93 **Week** 34

Start	**IEE-CDS 00000052:00:0**	**93-240/15:59:30**	**IEE-000/00:52:34**
End	**IEE-CDS 00000048:50:0**	**93-240/16:02:59**	**IEE-000/00:49:05**
Duration	**00000003:41:0**	**000/00:03:29**	**000/00:03:29**

Top Label IDUNRT15SM11+
Bottom Label

Plot Key	**NIMS**	**Riding Plot Key**	**Conflict** **Yes**
CDS Bytes	**0**	**Report Options**	**Real Time Activity** **No**

Observation Objective

To obtain NIMS spectral data in 102 wavelengths at each 15 degrees of rotation in a 360 degree period. This is the eleventh of twelve observations of this nature

Design Detail

Alias IDUNROTATI04

One NIMS scan across the error ellipse plus pointing uncertainty at a sampling rate of 0.09 mrad/sec in short map 102 wavelength mode.

Short Map (SM), Gain 3, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 **Changed By** FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

Ida Rotation 30 deg Observation	**ACTIVITY ID: IDUNRT30SM08+** **START TIME: 93-240/16:11:38**

Activity ID: Orbit ID Target U Inst N OAPEL RT30SM SeqNo 08 Multi +

Title	**Ida Rotation 30 deg Observation**	**Instrument**	**NIMS**
Requestor	**M. Segura**	**Team NIMS**	**Working Group SWG**

Time System	**CDS**	**Load ID**	**EJ3**	**Calendar Date**	**08/28/93 Week 34**
Start	**IEE-CDS**	**00000040:00:0**	**93-240/16:11:38**		**IEE-000/00:40:26**
End	**IEE-CDS**	**00000037:00:0**	**93-240/16:14:40**		**IEE-000/00:37:24**
Duration		**00000003:00:0**	**000/00:03:02**		**000/00:03:02**

Top Label	**IDUNRT30SM08+**		
Bottom Label			
Plot Key	**NIMS**	**Riding Plot Key**	**Conflict Yes**
CDS Bytes	**0**	**Report Options**	**Real Time Activity No**

Observation Objective

To acquire NIMS spectral data in 102 wavelengths at every 30 degrees of rotation in a 360 degree period. This is the eighth and final observation in a series of eight.

Design Detail

Alias IDUNROTATI04

One NIMS scan across the error ellipse at a sampling rate of 0.09 mrad/sec in 102 wavelengths.

Short Map (SM), Gain 3, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 Changed By FEL **08/12/93 11:53:02**

Galileo Activity Plan Form **rev 5/95**

Ida 15 deg Rotation Observation	**ACTIVITY ID: IDUNRT15SM12+** **START TIME: 93-240/16:22:45**

Activity ID: Orbit ID Target U Inst N OAPEL RT15SM SeqNo 12 Multi +

Title Ida 15 deg Rotation Observation **Instrument** NIMS

Requestor M. Segura **Team** NIMS **Working Group** SWG

Time System CDS **Load ID** EJ3 **Calendar Date** 08/28/93 **Week** 34

Start	**IEE-CDS 00000029:00:0**	**93-240/16:22:45**	**IEE-000/00:29:19**
End	**IEE-CDS 00000025:50:0**	**93-240/16:26:14**	**IEE-000/00:25:50**
Duration	**00000003:41:0**	**000/00:03:29**	**000/00:03:29**

Top Label IDUNRT15SM12+
Bottom Label

Plot Key	**NIMS**	**Riding Plot Key**	**Conflict** **Yes**
CDS Bytes	**0**	**Report Options**	**Real Time Activity** **No**

Observation Objective

To obtain NIMS spectral data in 102 wavelengths at each 15 degrees of rotation in a 360 degree period. This is the last of twelve observations of this nature

Design Detail

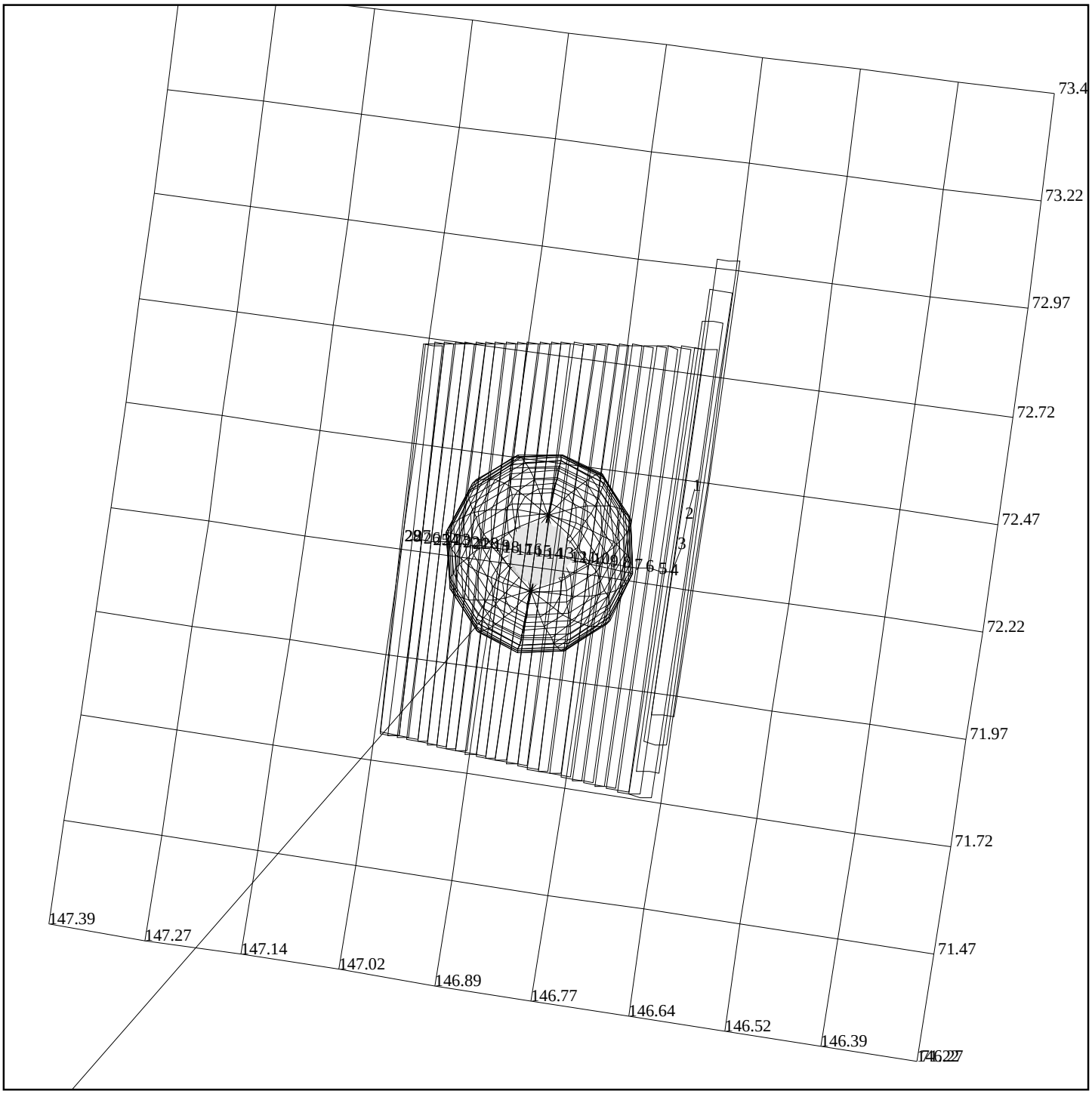
Alias IDUNROTATI04

One NIMS scan across the error ellipse plus pointing uncertainty at a sampling rate of 0.09 mrad/sec in short map 102 wavelength mode.

Short Map (SM), Gain 3, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 **Changed By** FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95



IDUNIDAGLM01

POINTER E1.0 lisac: 7/20/1993 9: 8:32
FILE:P.IDUNIDAGLM01
CENTRAL BODY:IDA
MINI:m.IDUNIDAGLM01
S/C EPH:/DATA/EPH/IDA22-050593.t
PERIAPSIS:93-240/16:53:00.000
START:IEE 93-240/16:52:04.066 -CDS 26:00:0
OBSERVATION:IDUNIDAGLM01

Mode: LM, Gr_Strt 0, Gain 3, Chop Ref, Gr_Off 4
408 Wavelengths
Every 2nd NIMS Footprint, 29 Total plotted
Mosaic Start: Cone: 146.65, Clock: 72.4
Slew Rate: .03 mrad/sec, 1 Cone Slew
Plot Ref Time: Start of Mosaic
Lat, Lon, Range, Res, Phase: (23.65, 263.60, 19466, 9.7, 23)
DESCRIP:IDA GLOBAL LM OBSERVATION

Ida Global Long Map Observation — **ACTIVITY ID: IDUNIDAGLM01+** / **START TIME: 93-240/16:25:47**

Activity ID: Orbit ID Target U Inst N OAPEL IDAGLM SeqNo 01 Multi +

Title Ida Global Long Map Observation — **Instrument** NIMS

Requestor M. Segura — **Team** NIMS — **Working Group** SWG

Time System CDS — **Load ID** EJ3 — **Calendar Date** 08/28/93 — **Week** 34

Start	IEE-CDS 00000026:00:0	93-240/16:25:47	IEE-000/00:26:17
End	IEE-CDS 00000021:00:0	93-240/16:30:50	IEE-000/00:21:14
Duration	00000005:00:0	000/00:05:03	000/00:05:03

Top Label IDUNIDAGLM01+
Bottom Label

Plot Key NIMS — **Riding Plot Key** — **Conflict** Yes
CDS Bytes 229 — **Report Options** — **Real Time Activity** No

Observation Objective

To obtain NIMS spectral data in 408 wavelengths, long map mode. This provides the highest spectral resolution data on Ida, at a necessarily lower spectral resolution.

Design Detail

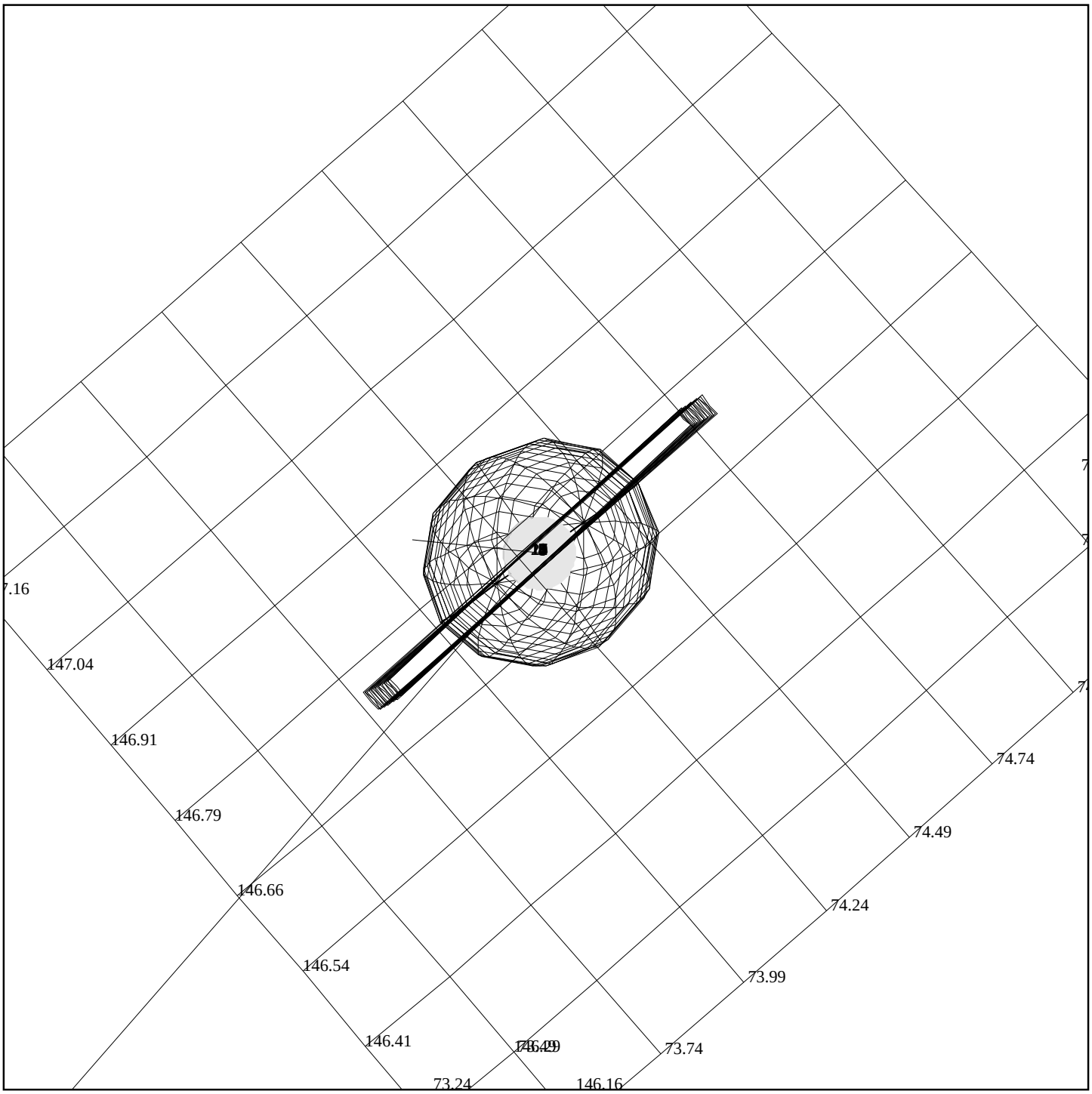
Alias

This observation is done in long map mode, in 408 wavelengths with a sampling rate of 0.03 mrad/sec.

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

Last Changed 05/22/95 **Changed By** FEL — 08/12/93 11:53:02

Galileo Activity Plan Form — **rev 5/95**



IDUNLONMAP01

POINTER E1.0 lisac: 7/20/1993 9: 8:32
FILE:P.IDUSFINROT01
CENTRAL BODY:IDA
MINI:m.IDUNIDACMB01
S/C EPH:/DATA/EPH/IDA22-050593.t
PERIAPSIS:93-240/16:53:00.000
START:IEE 93-240/16:52:04.066 -CDS 26:00:0
OBSERVATION:IDUSFINROT01

Mode: LM, Gr_Strt 0, Gain 3, Chop Ref, Gr_Off 4
408 Wavelengths
Every 2nd NIMS Footprint, 21 Total plotted
Mosaic Start: Cone: 146.75, Clock: 74.3
Slew Rate: xxx mrad/sec, SMOS
Plot Ref Time: Start of Mosaic
Lat, Lon, Range, Res, Phase: (-20.95, 321.94, 16521, 8.3, 23)
DESCRIP:IDA SSI FINAL ROTATION

NIMS Long Map / IDUSFINROT	**ACTIVITY ID: IDUNLONMAP01+** **START TIME: 93-240/16:29:50**

Activity ID:	**Orbit ID**	**Target U**	**Inst N**	**OAPEL LONMAP**	**SeqNo 01**	**Multi +**	
Title	**NIMS Long Map / IDUSFINROT**				**Instrument**	**NIMS**	
Requestor	**M. Segura**			**Team NIMS**	**Working Group**	**SWG**	

Time System	**CDS**	**Load ID**	**EJ3**	**Calendar Date**	**08/28/93**	**Week 34**	
Start	**IEE-CDS**	**00000022:00:0**		**93-240/16:29:50**		**IEE-000/00:22:14**	
End	**IEE-CDS**	**00000018:00:0**		**93-240/16:33:52**		**IEE-000/00:18:12**	
Duration		**00000004:00:0**		**000/00:04:02**		**000/00:04:02**	

Top Label	**IDUNLONMAP01+**				
Bottom Label					
Plot Key	**NIMS**	**Riding Plot Key**		**Conflict**	**Yes**
CDS Bytes	**0**	**Report Options**		**Real Time Activity**	**No**

Observation Objective

NIMS ride-along with SSI’s final rotation observation.

Design Detail

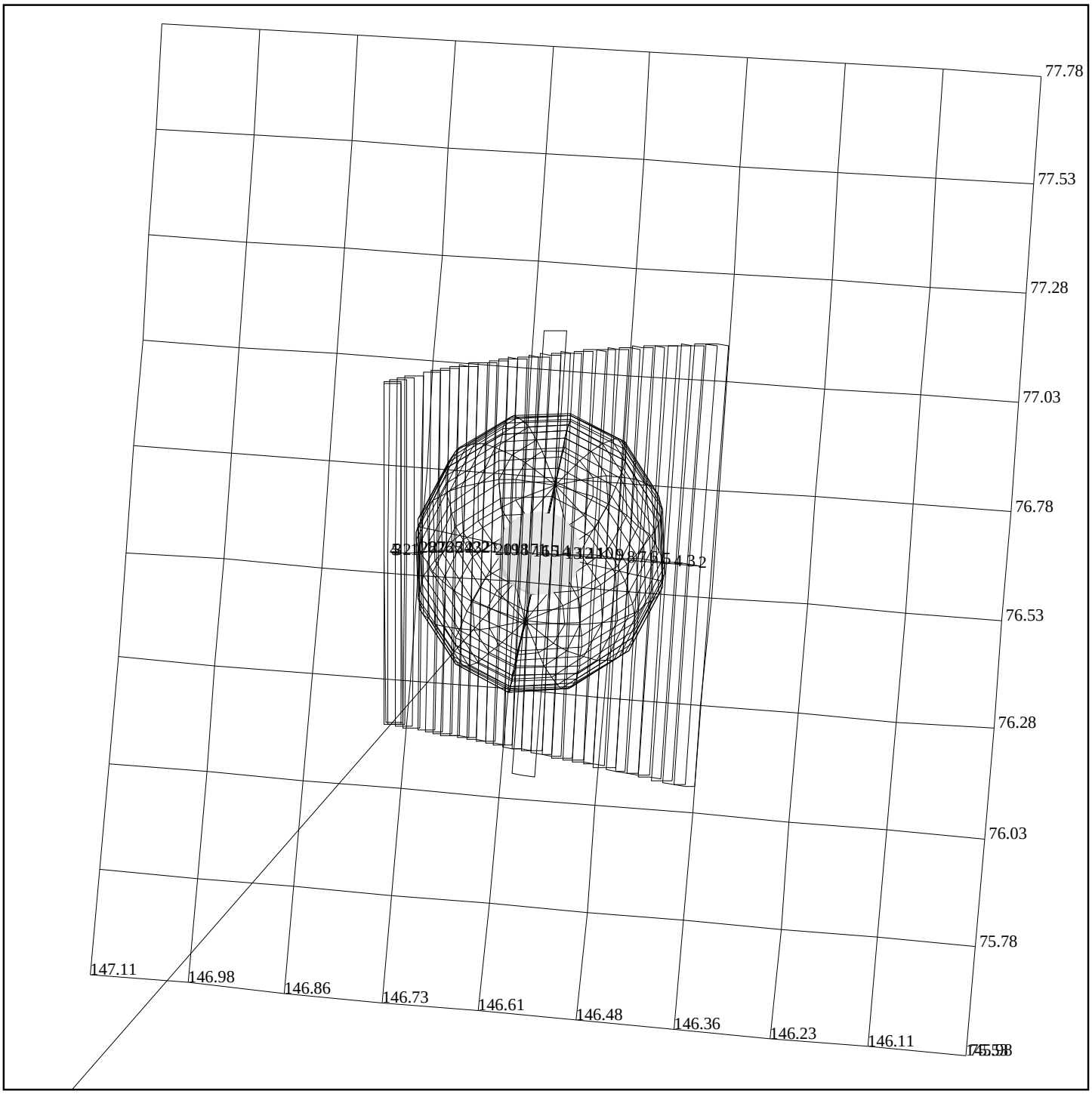
Alias IDUSFINROT01

NIMS ride-along behind SSI stop and shoot.
NIMS is in Long Map mode.

Long Map (LM), Gain 3, Grating Start 0, Chopper Ref, HCM

Last Changed	**05/22/95**	**Changed By**	**FEL**	**08/12/93 11:53:02**

Galileo Activity Plan Form	**rev 5/95**



IDUNIDAFIN01

POINTER E1.0 lisac: 7/20/1993 9: 8:32
FILE:P.IDUNIDAFIN01
CENTRAL BODY:IDA
MINI:m.IDUNIDACMB01
S/C EPH:/DATA/EPH/IDA22-050593.t
PERIAPSIS:93-240/16:53:00.000
START:IEE 93-240/16:52:04.066 -CDS 26:00:0
OBSERVATION:IDUNIDAFIN01

Mode: LM, Gr_Strt 0, Gain 3, Chop Ref, Gr_Off 4
408 Wavelengths
Every 2nd NIMS Footprint, 27 Total plotted
Mosaic Start: Cone: 146.6, Clock: 76.6
Slew Rate: .03 mrad/sec, 1 Cone Slew
Plot Ref Time: Start of Mosaic
Lat, Lon, Range, Res, Phase: (+7.61, 359.10, 14320, 7.2, 24)
DESCRIP:IDA FINAL 90 DEG ROTATION MAP

NIMS Final 90 deg Rotation Map	**ACTIVITY ID: IDUNIDAFIN01+** **START TIME: 93-240/16:32:52**

Activity ID: Orbit ID Target U Inst N OAPEL IDAFIN SeqNo 01 Multi +

Title NIMS Final 90 deg Rotation Map **Instrument** NIMS

Requestor M. Segura **Team** NIMS **Working Group** SWG

Time System CDS **Load ID** EJ3 **Calendar Date** 08/28/93 **Week** 34

Start	IEE-CDS 00000019:00:0	93-240/16:32:52	IEE-000/00:19:12
End	IEE-CDS 00000013:45:0	93-240/16:38:26	IEE-000/00:13:38
Duration	00000005:46:0	000/00:05:34	000/00:05:34

Top Label IDUNIDAFIN01+
Bottom Label

Plot Key	NIMS	**Riding Plot Key**	**Conflict** Yes
CDS Bytes	229	**Report Options**	**Real Time Activity** No

Observation Objective

NIMS will perform a Long Map spectral, disk image of IDA. This is the last of the rotation observations and the fifth 90 degree observation taken by NIMS. The data is taken in 408 wavelengths. This observation provides the highest spectral resolution data on the asteroid at a necessarily lower spectral resolution.

Design Detail

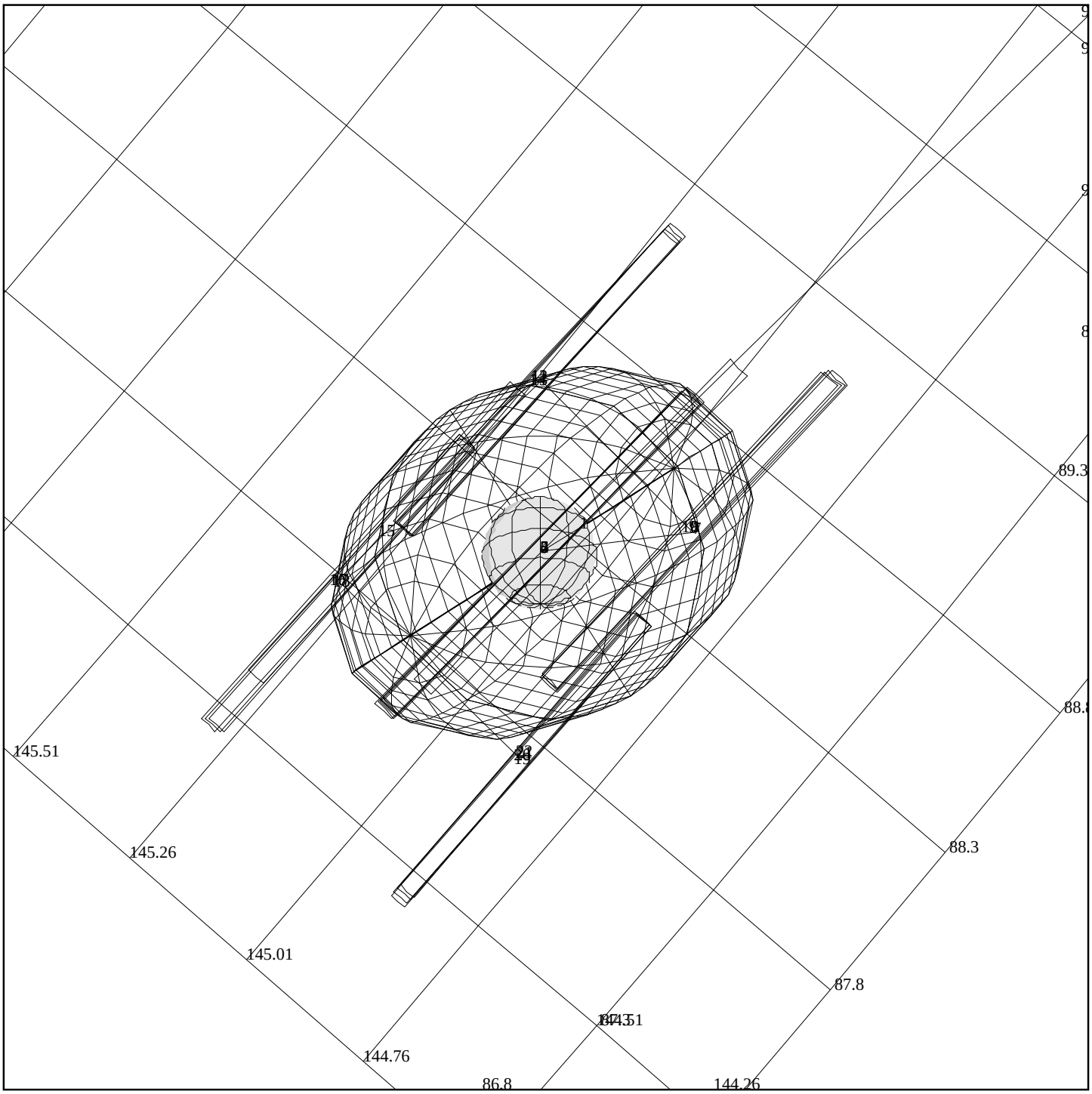
Alias

Instrument is in Long Map mode at 408 wavelenghts, this mode being used on the fifth and last 90 degrees of rotation.
Sampling rate is 0.03 mrad/sec.

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

Last Changed 05/22/95 **Changed By** FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95



IDUNLONMAP02

POINTER E1.0 lisac: 7/20/1993 9: 8:32
FILE:P.IDUS6COLOR01
CENTRAL BODY:IDA
MINI:m.IDUS6COLOR01
S/C EPH:/DATA/EPH/IDA22-050593.t
PERIAPSIS:93-240/16:53:00.000
START:IEE 93-240/16:52:04.066 -CDS 15:00:0
OBSERVATION:IDUS6COLOR01

Mode: LM, Gr_Strt 0, Gain 3, Chop Ref, Gr_Off 4
408 Wavelengths
Every 2nd NIMS Footprint, 22 Total plotted
Mosaic Start: Cone: 145.05, Clock: 88.2
Slew Rate: xxx mrad/sec, SMOS
Plot Ref Time: Start of Mosaic
Lat, Lon, Range, Res, Phase: (+12.42, 282.10, 11402, 5.7, 26)
DESCRIP:TARGET FOR 6-COLOR 1X1 4-COLOR 2

NIMS Long Map / IDUS6COLOR	**ACTIVITY ID: IDUNLONMAP02+** **START TIME: 93-240/16:39:56**

Activity ID: Orbit ID Target U Inst N OAPEL LONMAP SeqNo 02 Multi +

Title NIMS Long Map / IDUS6COLOR **Instrument** NIMS

Requestor M. Segura **Team** NIMS **Working Group** SWG

Time System CDS **Load ID** EJ3 **Calendar Date** 08/28/93 **Week** 34

Start	IEE-CDS 00000012:00:0	93-240/16:39:56	IEE-000/00:12:08
End	IEE-CDS 00000007:00:0	93-240/16:45:00	IEE-000/00:07:04
Duration	00000005:00:0	000/00:05:04	000/00:05:04

Top Label IDUNLONMAP02+
Bottom Label

Plot Key NIMS **Riding Plot Key** **Conflict** Yes
CDS Bytes 0 **Report Options** **Real Time Activity** No

Observation Objective

NIMS ride-along with SSI's 6 color observation.

Design Detail

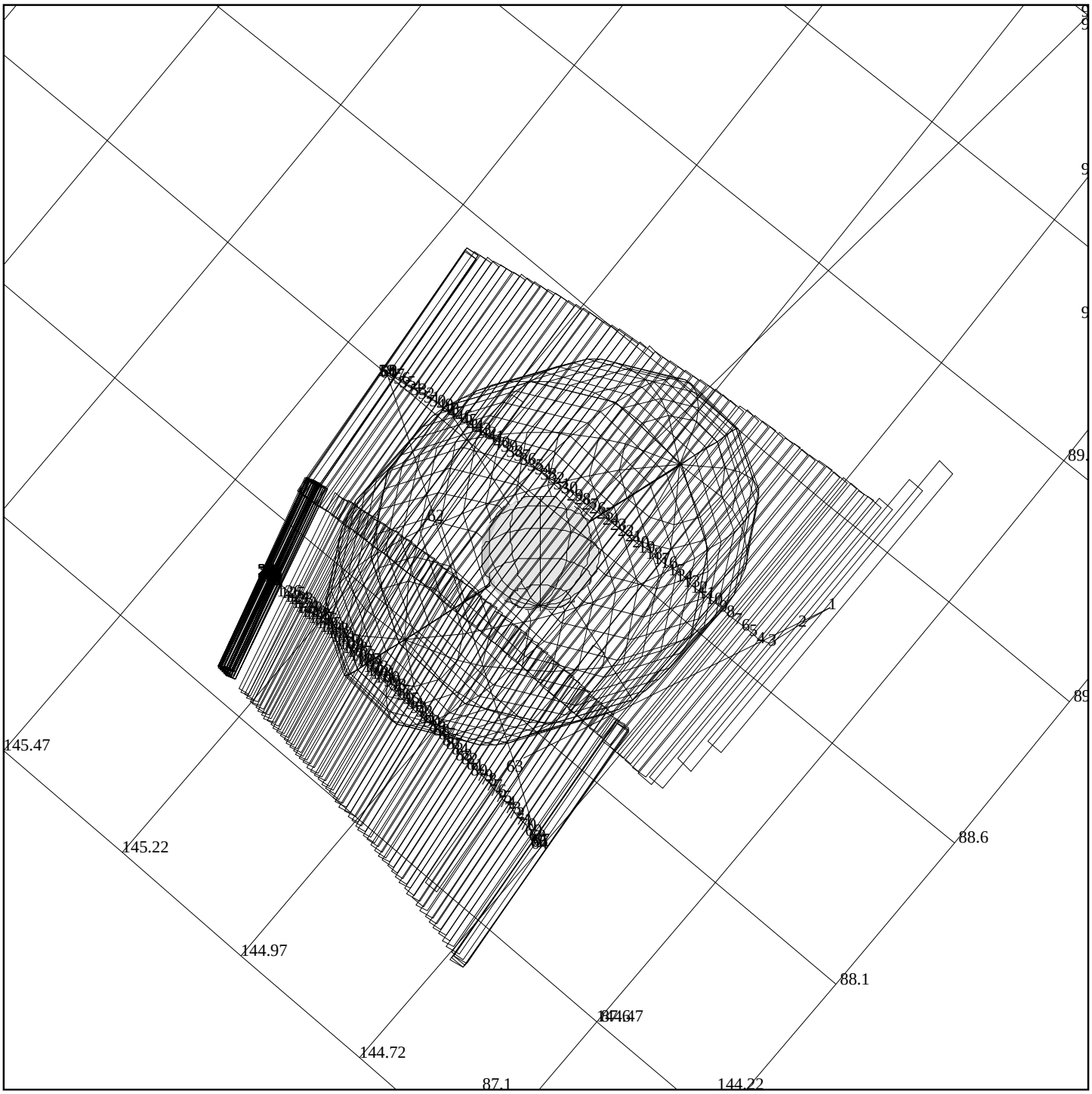
Alias IDUS6COLOR01

NIMS ride-along behind SSI stop and shoot.
NIMS is in Long Map mode.

Long Map (LM), Gain 3, Grating Start 0, Chopper Ref, IM4

Last Changed 05/22/95 **Changed By** FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95



IDUNIDACHM01

POINTER E1.0 lisac: 7/20/1993 11:19:37
FILE:P.IDUNIDACHM01
CENTRAL BODY:IDA
MINI:/home/lisac/ej3seq/NIMS/m.ej03ab
S/C EPH:/DATA/EPH/IDA22-050593.t
PERIAPSIS:93-240/16:53:00.000
START:IEE 93-240/16:52:04.066 -CDS 11:00:0
OBSERVATION:IDUNIDACHM01

Mode: SM, Gr_Strt 2, Gain 3, Chop Ref, Gr_Off 4
102 Wavelengths
Every 2nd NIMS Footprint, 53 Total plotted
Mosaic Start: Cone: 144.62, Clock: 88.9
Slew Rate: .09 mrad/sec, Z Scan
Plot Ref Time: Start of Mosaic
Lat, Lon, Range, Res, Phase: (-10.16, 235.47, 8521, 4.3, 30)
DESCRIP:IDA COMPOSITION @ 102 WAVELENGTH

IDA Composition at 102 wavelengths — ACTIVITY ID: IDUNIDACHM01+ — START TIME: 93-240/16:40:57

Activity ID: Orbit ID Target U Inst N OAPEL IDACHM SeqNo 01 Multi +

Title IDA Composition at 102 wavelengths Instrument NIMS

Requestor M. Segura Team NIMS Working Group SWG

Time System CDS Load ID EJ3 Calendar Date 08/28/93 Week 34

Start	IEE-CDS 00000011:00:0	93-240/16:40:57	IEE-000/00:11:07
End	IEE-CDS 00000005:00:0	93-240/16:47:01	IEE-000/00:05:03
Duration	00000006:00:0	000/00:06:04	000/00:06:04

Top Label IDUNIDACHM01+
Bottom Label

Plot Key NIMS Riding Plot Key Conflict Yes
CDS Bytes 229 Report Options Real Time Activity No

Observation Objective

Map the compositional heterogeneity of IDA using 102 wavelengths (1/4 of the full NIMS spectral resolution). The 102 wavelength mode provides the highest spatial resolution at a spectral resolution of about 0.04 microns. This is the lowest available spectral resolution which permits analysis of shape for solid bands. This is the NIMS-driven highest priority observation with 95% probability of capture.

Design Detail

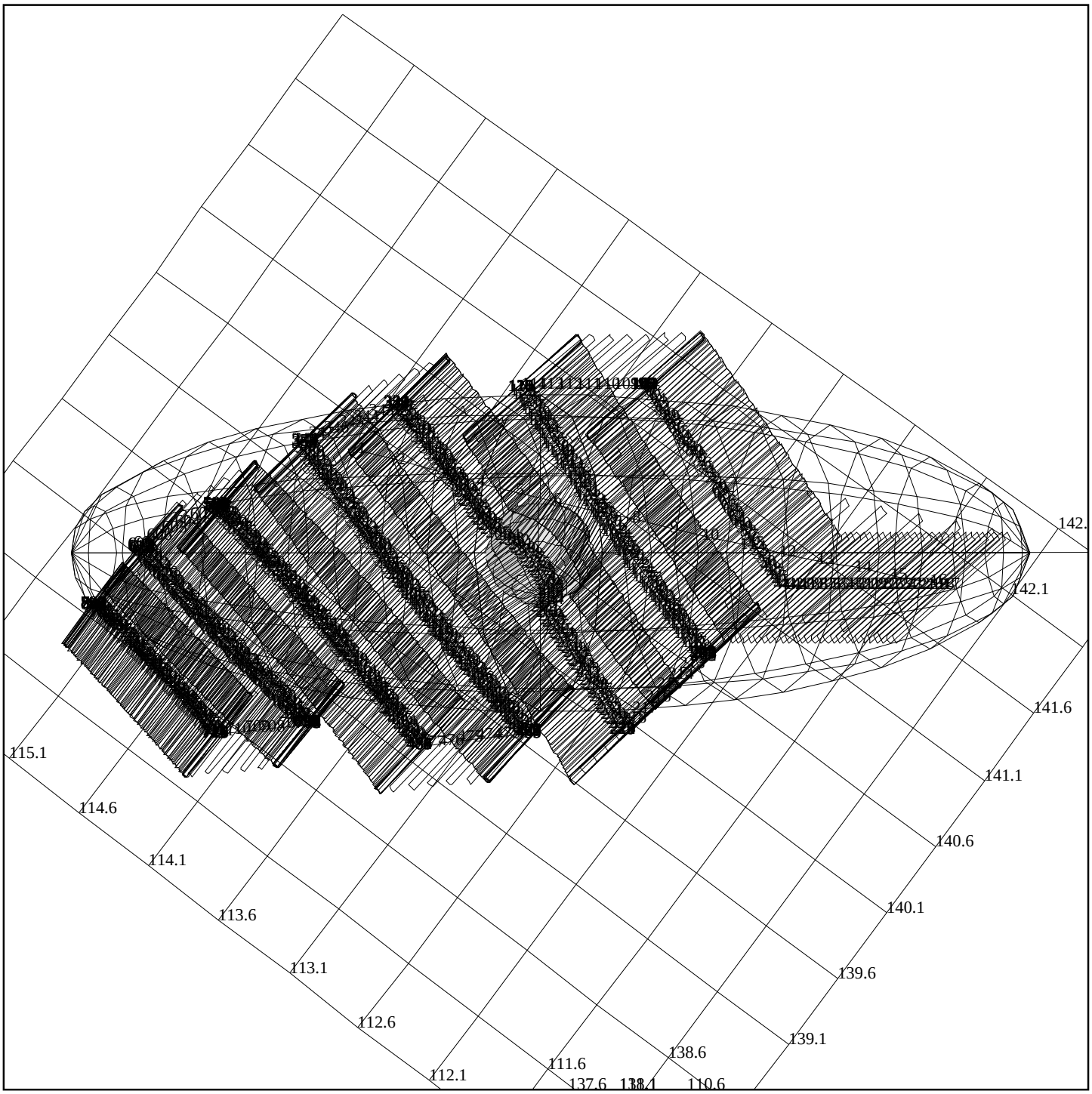
Alias

This observations is the last of NIMS planned Short Map scans of Ida. The instrument is sampling at 0.09 mrad/sec in 102 wavelengths.

Short Map (SM), Gain 3, Grating Start 2, Chopper Ref, MPW

Last Changed 05/22/95 Changed By FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95



IDUNHISPAT01

POINTER E1.0 lisac: 7/20/1993 9: 8:32

FILE:P.IDUSHIRES_01

CENTRAL BODY:IDA

MINI:m.IDUSHIRES_01

S/C EPH:/DATA/EPH/IDA22-050593.t

PERIAPSIS:93-240/16:53:00.000

START:IEE 93-240/16:52:04.066 -CDS 6:00:0

OBSERVATION:IDUSHIRES_01

Mode: XM, Gr_Strt 6, Gain 3, Chop Ref, Gr_Off 4

17 Wavelengths

Every 2nd NIMS Footprint, 804 Total plotted

Mosaic Start: Cone: 114.6, Clock: 140.5

Slew Rate: .80 mrad/sec, Box Scan

Plot Ref Time: Start of Mosaic

Lat, Lon, Range, Res, Phase: (-1.60, 73.63, 4762, 2.4, 39)

DESCRIP:HIRES 95% CONFIDENCE OBSERVATION

Ida Highest Spatial Resolution Observa	ACTIVITY ID: IDUNHISPAT01+ START TIME: 93-240/16:46:31

Activity ID: Orbit ID Target U Inst N OAPEL HISPAT SeqNo 01 Multi +

Title Ida Highest Spatial Resolution Observa Instrument NIMS

Requestor M. Segura Team NIMS Working Group SWG

Time System CDS Load ID EJ3 Calendar Date 08/28/93 Week 34

Start	IEE-CDS 00000005:45:0	93-240/16:46:31	IEE-000/00:05:33
End	IEE-CDS 00000001:00:0	93-240/16:51:04	IEE-000/00:01:00
Duration	00000004:45:0	000/00:04:33	000/00:04:33

Top Label IDUNHISPAT01+
Bottom Label

Plot Key	NIMS	Riding Plot Key	Conflict Yes
CDS Bytes	0	Report Options	Real Time Activity No

Observation Objective

To obtain NIMS data in Fixed Map mode (17 wavelengths), in conjuction with the SSI High Resolution observation. This observation provides the highest spatial resolution spectral image with 95% probability of capture. Ida is sampled in 17 wavelengths spanning from 0.7 to 5.2 microns.

Design Detail

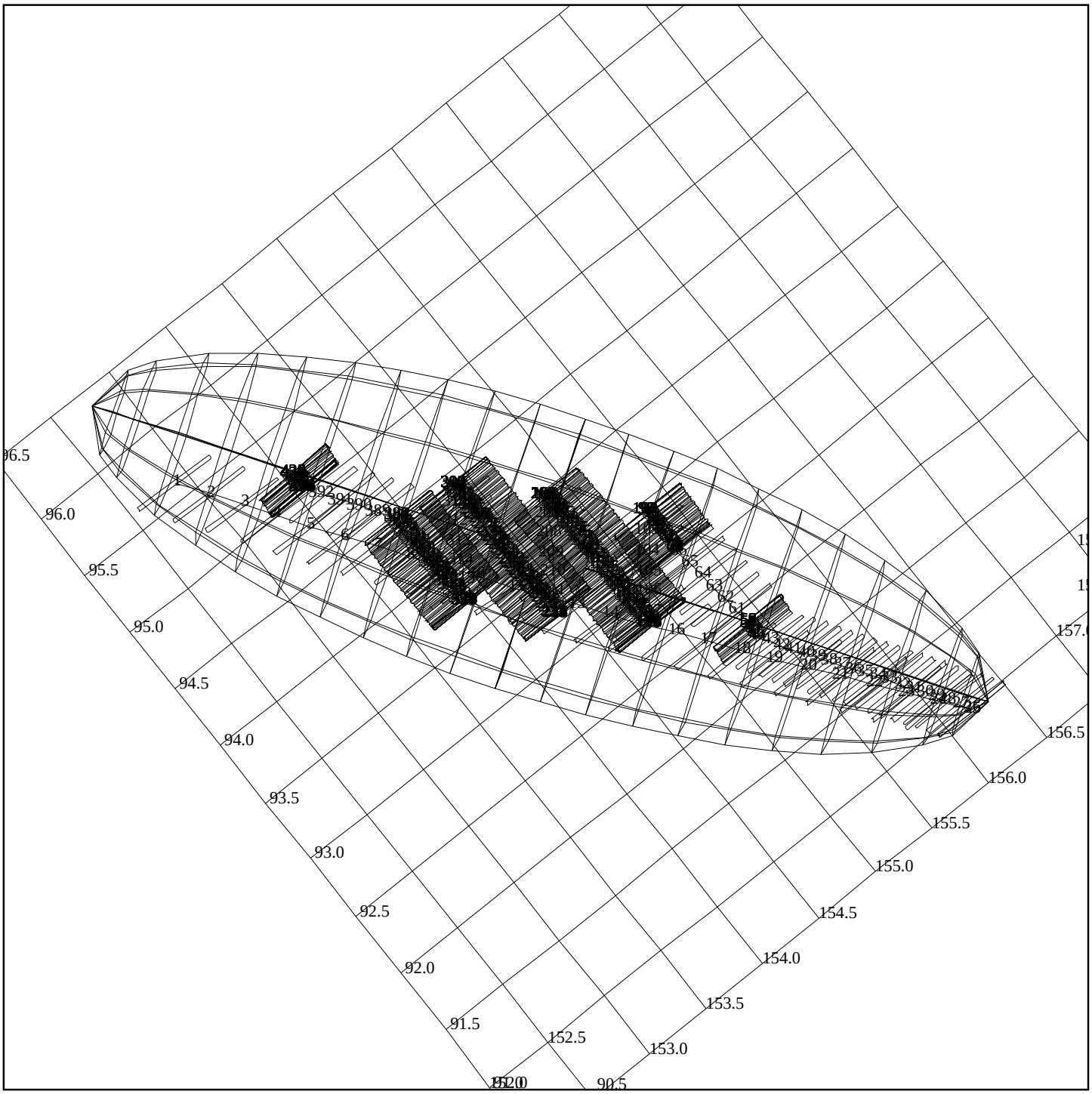
Alias IDUSHIRES01

This observation is designed such that both NIMS and SSI are in compatible modes and scan rates. NIMS is in Fixed Map mode and scannng at a rate of 0.800 mrad/sec.

Fixed Map (XM), Gain 3, Grating Start 6, Chopper Ref, IM4

Last Changed 05/22/95 Changed By FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95



IDUNIDACA_01

POINTER E1.0 Iisac: 7/20/1993 9: 8:32
FILE:P.IDUSENCNTR01
CENTRAL BODY:IDA
MINI:m.IDUSENCNTR01
S/C EPH:/DATA/EPH/IDA22-050593.t
PERIAPSIS:93-240/16:53:00.000
START:IEE 93-240/16:52:04.066 -CDS 1:00:0
OBSERVATION:IDUSENCNTR01

Mode: XM, Gr_Strt 6, Gain 3, Chop Ref, Gr_Off 4
17 Wavelengths
Every 2nd NIMS Footprint, 430 Total plotted
Mosaic Start: Cone: 95.6, Clock: 152.9
Slew Rate: .80 mrad/sec, Z Scan
Plot Ref Time: Start of Mosaic
Lat, Lon, Range, Res, Phase: (-3.84, 123.46, 2611, 1.3, 74)
DESCRIP:SUPER HI-RES REDUCED CONFIDENCE

Ida Closest Approach Observation — **ACTIVITY ID: IDUNIDACA_01+** / **START TIME: 93-240/16:51:04**

Activity ID: Orbit ID Target U Inst N OAPEL IDACA_ SeqNo 01 Multi +

Title Ida Closest Approach Observation — **Instrument** NIMS

Requestor M. Segura — **Team** NIMS — **Working Group** SWG

Time System CDS — **Load ID** EJ3 — **Calendar Date** 08/28/93 — **Week** 34

Start	IEE-CDS	00000001:00:0	93-240/16:51:04	IEE-000/00:01:00
End	IEE+CDS	00000001:00:0	93-240/16:53:04	IEE+000/00:01:00
Duration		00000002:00:0	000/00:02:00	000/00:02:00

Top Label IDUNIDACA_01+
Bottom Label

Plot Key NIMS — **Riding Plot Key** — **Conflict** Yes
CDS Bytes 0 — **Report Options** — **Real Time Activity** No

Observation Objective

To obtain a NIMS spectral image of a portion of Ida with the highest possible spatial resolution in 17 wavelengths. This is a compatible NIMS/SSI observation.

Design Detail

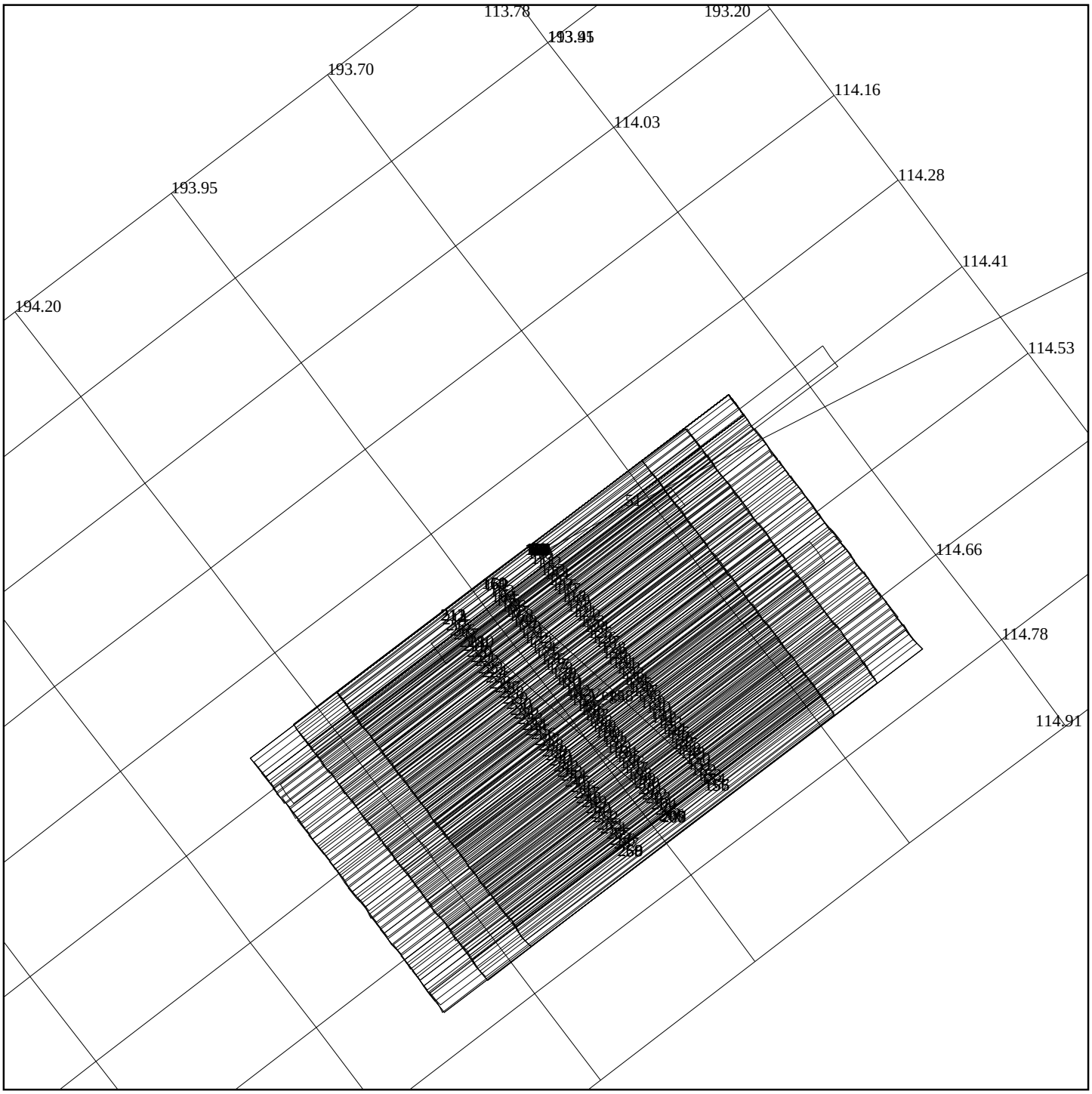
Alias IDUSENCNTR01

This design is a compatible NIMS/SSI observation taken at -1 to +1 minutes, with the highest spatial resolution possible. NIMS will be in Fixed Map mode, taking data in 17 wavelengths with a sampling rate of 0.800 mrad/sec.

Fixed Map (XM), Gain 3, Grating Start 6, Chopper Ref, IM4

Last Changed 05/22/95 — **Changed By** FEL — 08/12/93 11:53:02

Galileo Activity Plan Form — rev 5/95



IDHNBORCAL01

POINTER E1.0 lisac: 7/20/1993 9: 8:32
FILE:P.IDHUBORSIT01
CENTRAL BODY:IDA
MINI:m.IDHUBORSIT01
S/C EPH:/DATA/EPH/IDA22-050593.t
PERIAPSIS:93-240/16:53:00.000
START:IEE 93-240/16:52:04.066 +CDS 30:00:0
OBSERVATION:IDHUBORSIT01

Mode: XM, Gr_Strt 6, Gain 3, Chop Ref, Gr_Off 4
17 Wavelengths
Every 2nd NIMS Footprint, 260 Total plotted
Mosaic Start: Cone: 114.38, Clock: 193.85
Slew Rate: .08 mrad/sec, Z Scan
Plot Ref Time: Start of Mosaic
Lat, Lon, Range, Res, Phase: (x, x, x, x, x)
DESCRIP:BORESIGHT CAL - VEGA

Boresight Calibration — **ACTIVITY ID: IDHNBORCAL01+** / **START TIME: 93-240/17:22:24**

Activity ID: Orbit ID Target H Inst N OAPEL BORCAL SeqNo 01 Multi +

Title Boresight Calibration — **Instrument** NIMS

Requestor M. Segura — **Team** NIMS — **Working Group** SWG

Time System CDS **Load ID** EJ3 **Calendar Date** 08/28/93 **Week** 34

Start	IEE+CDS	00000030:00:0	93-240/17:22:24	IEE+000/00:30:20
End	IEE+CDS	00000039:00:0	93-240/17:31:30	IEE+000/00:39:26
Duration		00000009:00:0	000/00:09:06	000/00:09:06

Top Label IDHNBORCAL01+
Bottom Label

Plot Key NIMS **Riding Plot Key** **Conflict** Yes
CDS Bytes 0 **Report Options** **Real Time Activity** No

Observation Objective

Boresight Calibration with PPR, NIMS and UVS instruments to determine field of view offsets of scan platform instruemnts, minus SSI.

Design Detail

Alias IDHUBORSIT01

Target Star: Vega (alpha Lyra)

Fixed Map (XM), Gain 3, Grating Start 6, Chopper Ref, MPW

Last Changed 05/22/95 **Changed By** FEL 08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

NIMS PCT Calibration	ACTIVITY ID: IDNNPCTCAL01+ START TIME: 93-241/04:00:24

Activity ID:	Orbit ID	Target N	Inst N	OAPEL PCTCAL	SeqNo 01 Multi +
Title	NIMS PCT Calibration			Instrument	NIMS
Requestor	M. Segura		Team NIMS	Working Group	SWG

Time System	CDS	Load ID EJ3	Calendar Date	08/28/93 Week 34
Start	IEE+CDS	00000661:00:0	93-241/04:00:24	IEE+000/11:08:20
End	IEE+CDS	00000710:00:0	93-241/04:49:57	IEE+000/11:57:53
Duration		00000049:00:0	000/00:49:33	000/00:49:33

Top Label	IDNNPCTCAL01+		
Bottom Label			
Plot Key	NIMS	Riding Plot Key	Conflict Yes
CDS Bytes	229	Report Options	Real Time Activity No

Observation Objective

Perform a Photometric Calibration of the NIMS instrument after the IDA encounter.

Design Detail

Alias

This calibration will be done in Long Map mode.
The off-sun angle is approximately 18 degrees.
The PCT will be partially in shade due to the high off-sun angle of the spin-axis of the spacecraft.

Long Map (LM), Gain 1, Grating Start 0, Chopper Ref, MPW

Last Changed	05/22/95	Changed By	FEL	08/12/93 11:53:02

Galileo Activity Plan Form rev 5/95

NIMS RCT Calibration	**ACTIVITY ID: IDNNRCTCAL01+** **START TIME: 93-242/19:12:15**

Activity ID:	**Orbit ID**	**Target N**	**Inst N**	**OAPEL RCTCAL**	**SeqNo 01**	**Multi +**	
Title	**NIMS RCT Calibration**				**Instrument**	**NIMS**	
Requestor	**M. Segura**			**Team NIMS**	**Working Group**	**SWG**	

Time System	**CDS**	**Load ID**	**EJ3**	**Calendar Date**	**08/28/93 Week 34**
Start	**IEE+CDS 00002987:00:0**		**93-242/19:12:15**		**IEE+002/02:20:11**
End	**IEE+CDS 00002997:00:0**		**93-242/19:22:22**		**IEE+002/02:30:18**
Duration	**00000010:00:0**		**000/00:10:07**		**000/00:10:07**

Top Label	**IDNNRCTCAL01+**		
Bottom Label			
Plot Key	**NIMS**	**Riding Plot Key**	**Conflict Yes**
CDS Bytes	**229**	**Report Options**	**Real Time Activity No**

Observation Objective

Perform a Radiometric Calibration of the NIMS instrument after the IDA encounter.

Design Detail

Alias

This calibration will be done in Full Map mode.

Full Map (FM), Gain 1, Grating Start 0, Chopper Ref, MPW

Last Changed	**05/22/95**	**Changed By**	**FEL**	**08/12/93 11:53:02**

Galileo Activity Plan Form **rev 5/95**