Ida Rotation Observations

ACTIVITY ID IDUSROTATI02*
START TIME IEE-CDS 00000228:00:0

Activity ID	Orbit ID	Target U	Inst S	OAPEL ROTATI	SeqNo 02	Multi *	
Title	Ida Rotation Observations						
Requestor	A. HARCH				Working Group	SWG	
Bottom Label			Plot Key	SSI	Team	SSI	

Time System	CDS	Load ID	EJ03	Calendar Date	03/28/93 Week 34
Start	IEE-CDS	00000228:00:0	93-240/13:00:28	IEE-000/03:50:32	
End	IEE-CDS	00000160:00:0	93-240/14:09:14	IEE-000/02:41:46	
Duration		00000068:00:0	000/01:08:46	000/01:08:46	

DMS Activity RECORD Data Rate 115.20 Duration 0.00 Mode HCM

S/P Reserved Y Earth Reference Y Spin Status D Coop Imaging N

Instruments Used:												
DDS	N	EPD	N	EUV	N	HIC	N	MAG	N	NIMS	Y
PLS	N	PPR	Y	PWS	N	RS	N	SSI	Y	UVS	Y

Observation Objective

SSI and NIMS will perform periodic observations of the asteroid covering approximately 90 degrees of Ida rotation. The objectives are to characterize the shape and spin properties of Ida, and also obtain color, albedo and phase function data for understanding regolith and microphysical properties.

Design Detail

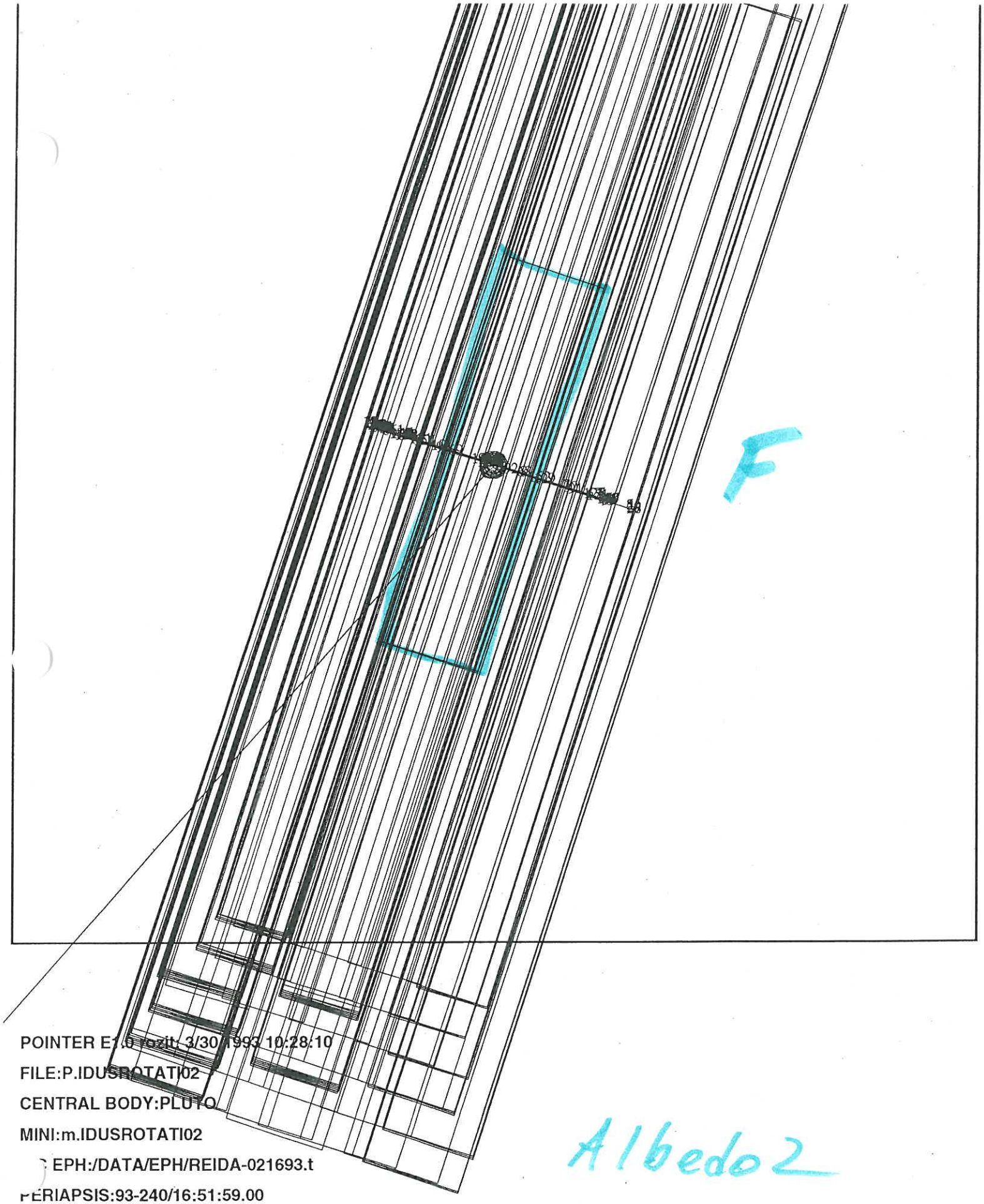
CDS COST 831 POINTER Design Y Excluds Alias
PAs 1 - 20:

1	TARGET	82	1	SSI	27	2	SSI	34	2	CMDRS	76	9	SCIREC	162	
6	CSMOS	300	6	SCITLM	150										

SSI will image the delivery uncertainty error ellipse plus scan-platform pointing error with a 6-color 1x1 mosaic at the start of the observation, followed by a 1-color 1x1 at each of the two remaining subsequent 30 degrees of rotation. NIMS will map the error ellipse in full-map mode once immediately following the SSI 6-color mosaic and in short-map mode every 15 degrees of rotation thereafter.

The separate instrument observations will be interleaved as necessary and will be designed cooperatively to provide maximum byte efficiency. The following is an outline of the PA strategy.

Created on	01/30/93	Version	19	02/10/93
Last Changed	02/09/93	Changed By	A. HARCH	12:44:26



POINTER E1.0 rozit: 3/30/1993 10:28:10

FILE:P.IDUSROTATI02

CENTRAL BODY:PLUTO

MINI:m.IDUSROTATI02

EPH:/DATA/EPH/REIDA-021693.t

PERIAPSIS:93-240/16:51:59.00

START:IEE 93-240/16:51:03.4 -CDS 230:00:0

OBSERVATION:IDUSROTATI02 DESCRIP:rotation movie 2

Activity ID	Orbit ID	Target U	Inst S	OAPEL ROTATI	SeqNo 03	Multi *	
Title	Ida Rotation Observations						
Requestor	M. SEGURA				Working Group	SWG	
Bottom Label			Plot Key	NIMS	Team	NIMS	

Time System	CDS	Load ID EJ03	Calendar Date	08/28/93 Week 34
Start	IEE-CDS	00000159:00:0	93-240/14:10:14	IEE-000/02:40:46
End	IEE-CDS	00000091:00:0	93-240/15:19:00	IEE-000/01:32:00
Duration		00000068:00:0	000/01:08:46	000/01:08:46

DMS Activity RECORD Data Rate 115.20 Duration 0.00 Mode HCM

S/P Reserved Y Earth Reference Y Spin Status D Coop Imaging N

Instruments Used:												
	ODS	N	EPD	N	EJV	N	HIC	N	MAG	N	NIMS	Y
	PLS	N	PPR	Y	PWS	N	RS	N	SSI	Y	UVS	Y

Observation Objective

SSI and NIMS will perform periodic observations of the asteroid covering approximately 90 degrees of Ida rotation. The objectives are to characterize the shape and spin properties of Ida, and also obtain color, albedo and phase function data for understanding regolith and microphysical properties.

Design Detail

CDS COST 831 POINTER Design Y Exclude Alias

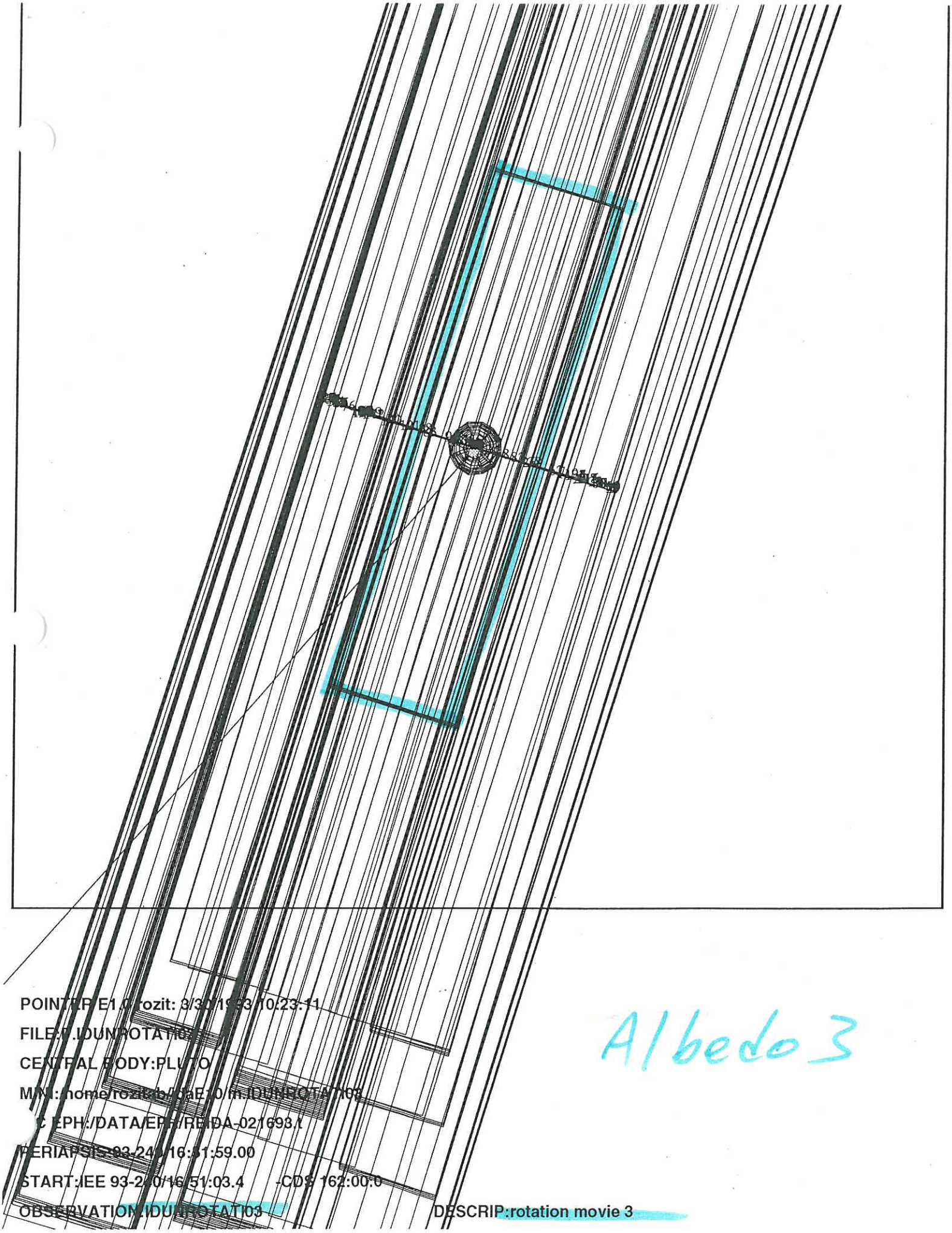
PAs 1 - 20:

1	TARGET	82	2	SSI	34	1	SSI	27	2	CMDRS	76	9	SCIREC	162	
6	CSMOS	300	6	SCITLM	150										

SSI will image the delivery uncertainty error ellipse plus scan-platform pointing error with a 6-color 1x1 mosaic at the start of the observation, followed by a 1-color 1x1 at each of the two remaining subsequent 30 degrees of rotation. NIMS will map the error ellipse in full-map mode once immediately following the SSI 6-color mosaic and in short-map mode every 15 degrees of rotation thereafter.

The separate instrument observations will be interleaved as necessary and will be designed cooperatively to provide maximum byte efficiency. The following is an outline of the PA strategy.

Created on	01/30/93	Version	19	02/10/93
Last Changed	02/09/93	Changed By	A. HARCH	12:44:29


POINTER:E1.0 rozit: 3/30/1993 10:23:11
FILE:F.IDUNROTATIO3
CENTRAL BODY:PLUTO
MN:/home/rozitab/DaE10/m.IDUNROTATIO3
EPH:/DATA/EPS/REIDA-021693.1
PERIAPSIS:93-24 16:51:59.00
START:IEE 93-2 0/16 51:03.4 -CDS 162:00:0
OBSERVATION:IDUNROTATIO3
DESCRIP:rotation movie 3
Albedo 3

Ida Rotation Observations

ACTIVITY ID IDUSROTATI04*
START TIME IEE-CDS 00000090:00:0

Activity ID	Orbit ID	Target U	Inst S	OAPEL ROTATI	SeqNo 04	Multi *	
Title	Ida Rotation Observations						
Requestor	M. SECURA				Working Group	SWG	
Bottom Label			Plot Key	NIMS	Team	NIMS	

Time System	CDS	Load ID EJ03	Calendar Date	08/28/93	Week 34
Start	IEE-CDS	00000090:00:0	93-240/15:20:00	IEE-000/01:31:00	
End	IEE-CDS	00000022:00:0	93-240/16:28:46	IEE-000/00:22:14	
Duration		00000068:00:0	000/01:08:46	000/01:08:46	

DMS Activity RECORD Data Rate 115.20 Duration 0.00 Mode HCM

S/P Reserved Y Earth Reference Y Spin Status D Coop Imaging N

Instruments Used:												
DDS	N	EPD	N	EUV	N	HIC	N	MAG	N	NIMS	Y
PLS	N	PPR	Y	PWS	N	RS	N	SSI	Y	UVS	Y

Observation Objective

SSI and NIMS will perform periodic observations of the asteroid covering approximately 90 degrees of Ida rotation. The objectives are to characterize the shape and spin properties of Ida, and also obtain color, albedo and phase function data for understanding regolith and microphysical properties.

Design Detail

CDS COST 831 POINTER Design Y Exclude Alias

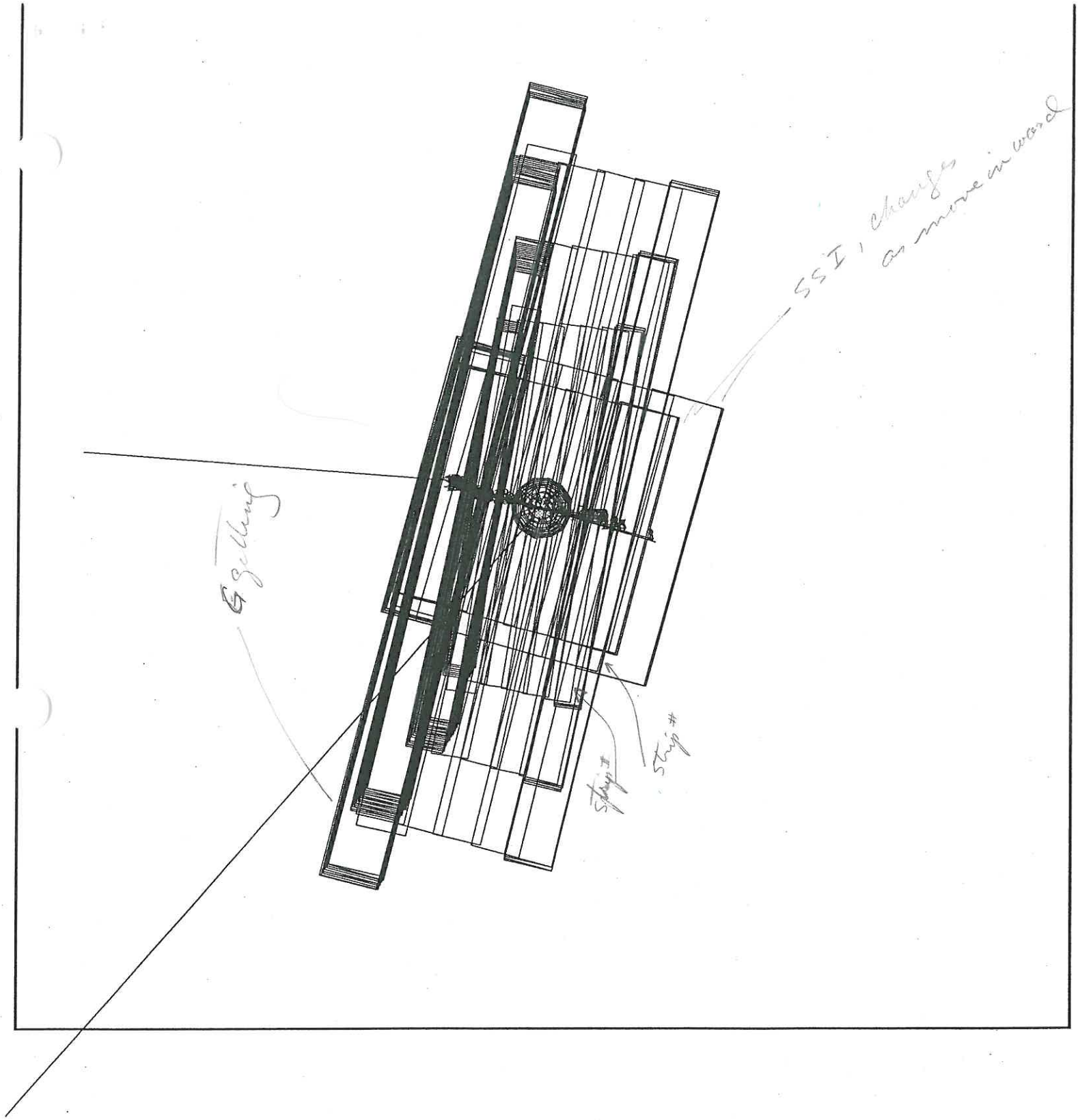
PAs 1 - 20:

1	TARGET	82	2	SSI	34	1	SSI	27	2	CMDRS	76	9	SCIREC	162
6	CSMOS	300	6	SCITLM	150									

SSI will image the delivery uncertainty error ellipse plus scan-platform pointing error with a 6-color 1x1 mosaic at the start of the observation, followed by a 1-color 1x1 at each of the two remaining subsequent 30 degrees of rotation. NIMS will map the error ellipse in full-map mode once immediately following the SSI 6-color mosaic and in short-map mode every 15 degrees of rotation thereafter.

The separate instrument observations will be interleaved as necessary and will be designed cooperatively to provide maximum byte efficiency. The following is an outline of the PA strategy.

Created on	01/30/93	Version	19	02/10/93
Last Changed	02/09/93	Changed By	A. HARCH	12:44:35



POINTER E1.0 rozit: 3/30/1993 10:16:53

FILE:P.IDUNROTATI04

CENTRAL BODY:PLUTO

MINI:m.IDUNROTATI04

C EPH:/DATA/EPH/REIDA-021693.t

PERIAPSIS:93-240/16:51:59.00

START:IEE 93-240/16:51:03.4 -CDS 91:00:0

OBSERVATION:IDUNROTATI04 DESCRIP:rotation movie 4

Albedo 4

UV High Resolution Reflectivity

ACTIVITY ID IDUVHIRES 01*
START TIME IEE-CDS 00000024:00:0

Activity ID	Orbit ID	Target U	Inst I	OAPEL HIRES	SeqNo 01	Multi *	
Title	UV High Resolution Reflectivity						
Requestor	S. EDBERG				Working Group	SWG	
Bottom Label			Plot Key	UVS	Team	UVS	

Time System	CDS	Load ID EJ03	Calendar Date	08/28/93	Week 34
Start	IEE-CDS	00000024:00:0	93-240/16:32:48	IEE-000/00:18:12	
End	IEE-CDS	00000022:00:0	93-240/16:34:50	IEE-000/00:16:10	
Duration		00000002:00:0	000/00:02:02	000/00:02:02	

DMS Activity RECORD Data Rate 7.68 Duration 2.03 Mode LRS

S/P Reserved Y Earth Reference N Spin Status D Coop Imaging N

Instruments Used:												
DDS	N	EPD	N	EUV	N	HIC	N	MAG	N	NIMS	N
PLS	N	PPR	N	PWS	N	RS	N	SSI	N	UVS	Y

Observation Objective

High signal/noise ~~F-P~~ channel spectra with spatial resolution on Ida.

F&G

"90 deg"

Design Detail

CDS COST 18 POINTER Design Y Exclude Alias
PAs 1 - 20:
SCIREC 18

It is assumed that the scan platform will be left targetted on Ida by the previous user (if not, add 72 bytes for TARGET). UVS will stare at Ida for the full period. DMS useage = 28 tics = 0.23 tic/sec x 121.33 sec.

Created on	02/08/93	Version	2	02/08/93
Last Changed	02/08/93	Changed By	S. EDBERG	17:00:18

Ida Full Spectral Observation

ACTIVITY ID IDUNIDALGM02+
START TIME IEE-CDS 00000019:00:0

Activity ID	Orbit ID	Target U	Inst N	OAPEL IDALGM	SeqNo 02	Multi +	
Title	Ida Full Spectral Observation						
Requestor	M. SEGURA				Working Group	AWG	
Bottom Label			Plot Key	NIMS	Team	NIMS	

Time System	CDS	Load ID EJ03	Calendar Date	08/28/93 Week 34
Start	IEE-CDS	00000019:00:0	93-240/16:31:48	IEE-000/00:19:12
End	IEE-CDS	00000015:00:0	93-240/16:35:50	IEE-000/00:15:10
Duration		00000004:00:0	000/00:04:02	000/00:04:02

DMS Activity RECORD Data Rate 28.80 Duration 4.00 Mode

S/P Reserved Y Earth Reference N Spin Status A Coop Imaging N

Instruments Used:												
	DDS	N	EPD	N	EUV	N	HIC	N	MAG	N	NIMS	Y
	PLS	N	PPR	Y	PWS	N	RS	N	SSI	Y	UVS	Y

Observation Objective

To obtain NIMS Spectral data in 408 wavelengths, long map mode

"chem map"
F+G

Design Detail

CDS COST 229 POINTER Design N Exclude Alias
PAs 1 - 20:

TARGET	82	CMDRS	38	SCITLM	25	CSMOS	66	SCIREC	18

This observation is done in long map mode, in 408 wavelengths with a sampling rate of .03mrad/sec

Created on	02/09/93	Version	1	02/10/93
Last Changed	/ /	Changed By		12:44:48

Joint Remote Sensing Star Calibration ACTIVITY ID IDHUSTRCAL01*
START TIME IEE-CDS 00000360:00:0

Activity ID	Orbit ID	Target H	Inst U	OAPEL STRCAL	SeqNo 01	Multi *	
Title	Joint Remote Sensing Star Calibration						
Requestor	S. EDBERG				Working Group	SWG	
Bottom Label			Plot Key	UVS	Team	UVS	

Time System	CDS	Load ID	EJ03	Calendar Date	08/28/93	Week 34	
Start	IEE-CDS	00000360:00:0		93-240/10:47:00		IEE-000/06:04:00	
End	IEE-CDS	00000354:00:0		93-240/10:53:04		IEE-000/05:57:56	
Duration		00000006:00:0		000/00:06:04		000/00:06:04	

DMS Activity	RECORD	Data Rate	7.68	Duration	2.02	Mode	LRS						
S/P Reserved	Y	Earth Reference	N	Spin Status	D	Coop Imaging	N						
Instruments Used:	DDS	N	EPD	N	EUV	N	HIC	N	MAG	N	NIMS	Y	
	PLS	N	PPR	Y	PWS	N	RS	N	SSI	N	UVS	Y	

Observation Objective

Baseline and chronological star calibration of sensitivity of UVS, PPR, and NIMS. Suitable star to be selected (representative: Sirius).

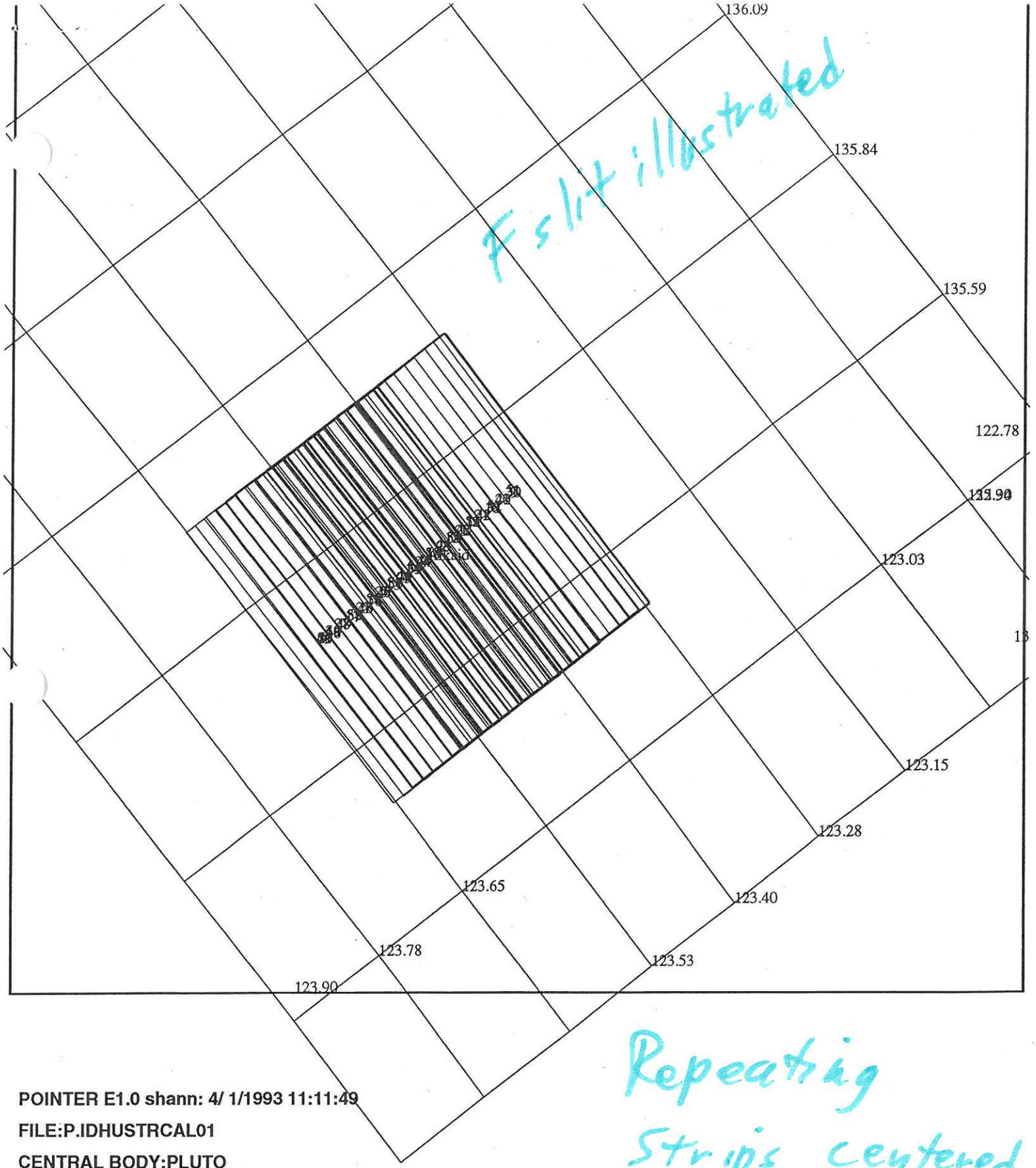
Design Detail

CDS COST 90 POINTER Design Y Exclude Alias
PAs 1 - 20:
TARGET 72 SCIREC 18

The scan platform will be directed to a suitable star (4 RIMs for pointing) and a 2 RIM record session will occur as the instruments stare at the target. A CMDSP may be used for scan platform motion to meet AACS requirements. The record will use 28 tics = 0.23 tic/sec x 121.33 sec.

Anyone using an offset?

Created on	02/08/93	Version	1	02/08/93
Last Changed	/ /	Changed By		16:39:34



Repeating Strips centered on

POINTER E1.0 shann: 4/ 1/1993 11:11:49

FILE:P.IDHUSTRCAL01

CENTRAL BODY:PLUTO

MINI:m.IDHUSTRCAL01

C EPH:/DATA/EPH/REIDA-021693.t

PERIAPSIS:93-240/16:51:59.00

START:IEE 93-240/16:51:03.4 +CDS 13:00:0

OBSERVATION:IDHUSTRCAL01 DESCRIP:UVS STAR CAL ETA UMA