Activity ID: Orbit G8 OAPEL CUPHAS78 SeqNo 01-

Title UVS CALLISTO PHASE (78 deg) **Instrument** UVS

Requestor UVS-SWG/K.NAVIAUX 37740 **Team** UVS **Working Group** SWG

Time System CDS **Load ID** G8A **Calendar Date** 05/05/97 **Week** 18

Start	JEE-CDS 00004432:00:0	97-125/09:00:58.734	JEE-003/02:41:14.666
End	JEE-CDS 00004397:00:0	97-125/09:36:22.067	JEE-003/02:05:51.333
Duration	00000035:00:0	000/00:35:23.333	000/00:35:23.333

Top Label G8CUPHAS7801

Bottom Label (real-time)

Plot Key	UVS	**Type**	SCI		
CDS Bytes	167	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	OAP	**Spin State**	DUAL	**DMS**	No

Observation Objective

Observe Callisto in the 1600Å to 3200Å wavelength regions at phase angles not obtainable from the Earth.

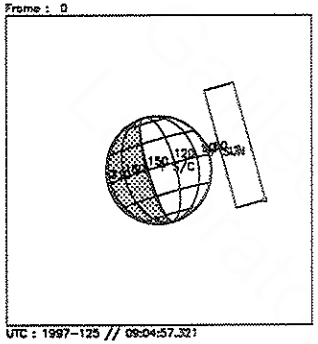
1 scan-platform slew across Callisto in real-time at ~78° phase; 17 RIM slew duration @ 0.01 mrad/sec.

UVS Configuration = F/F Full Scans

Design Detail

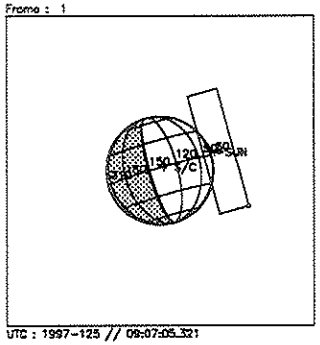
```
CDS RIM Command Parameters                                    PSID
--- --- -------- ----------                                    ----
28  002+UVFLUSH DISCRD,UVS                                    (CC)
36  004 TARGET  (4 RIM Posn_slew)                             (CB)
37  004 CSMOS   (10.31 mrad cn slew; 17 RIM duration; 0.01 mrad/s slew rate)    (CB)
38  003 CMDRS                                                 (CB)
    004     1   34UVS,07,S,N,N,N,S,0, ON,OFF, ON, ON,OFF,NOOVR,1,00,9C,00,00
    021     18  34UVS,C1,F,N,N,N,S,0,OFF,OFF, ON,OFF,OFF,NOOVR,1,2C,05,00,00
28  032+UVFLUSH PACKET,UVS                                    (CD)
```

Frame : 0



UTC : 1997-125 // 09:04:57.321
SCLK: 1/03942107:00:0:0

Frame : 1



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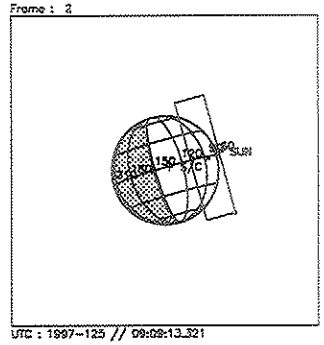
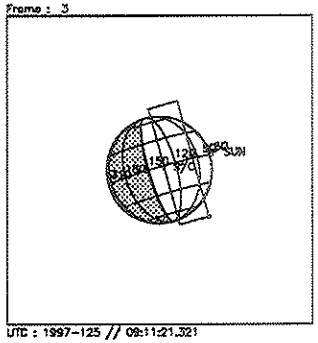
SCLK: 1/03942109:10:0:0

Frame : 2



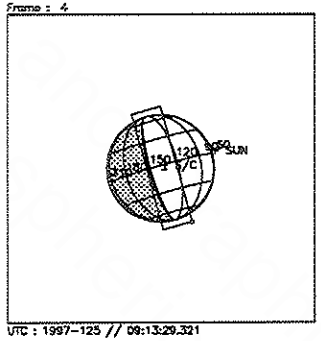
UTC : 1997-125 // 09:09:13.321
SCLK: 1/03942111:20:0:0

Frame : 3



UTC : 1997-125 // 09:11:21.321
SCLK: 1/03942113:30:0:0

Frame : 4



UTC : 1997-125 // 09:13:29.321
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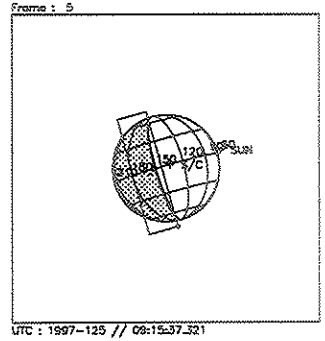
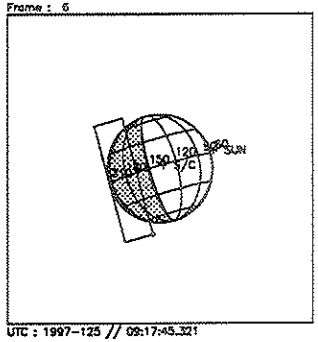
Frame : 5



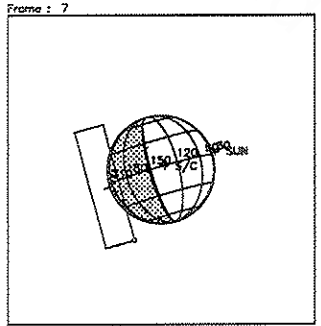
UTC : 1997-125 // 09:15:37.321
SCLK: 1/03942117:50:0:0

Frame : 6



UTC : 1997-125 // 09:17:45.321
SCLK: 1/03942119:60:0:0

Frame : 7



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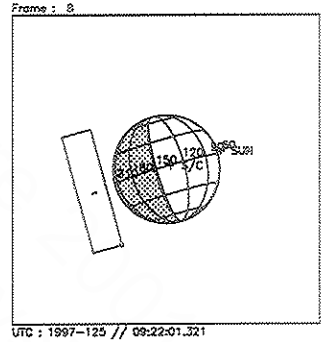
Frame : 8



UTC : 1997-125 // 09:22:01.321
SCLK: 1/03942123:80:0:0

Start UTC_TIME : 1997-125 // 09:04:57.321
End UTC_TIME : 1997-125 // 09:22:08.653
Start SCLK : 1/03942107:00:0:0
Delta Time between FOV : 128.0000
FOVs : F Channel(0.1x0.4)

Target Body : CALLISTO
Target Cone/Clock : 100.60/ 97.48 Deg
S/C to Body Center : 771215.6 Km (320.93867 Rc)
Z-axis Pointing (Ra / Dec) : 132.00 / 17.00 Deg

Activity ID:	Orbit G8	OAPEL CUGLOBAL		SeqNo 01+	
Title	UVS R/A W/ NIMS CALLISTO GLOBAL			**Instrument**	UVS
Requestor	UVS-SWG/K.NAVIAUX 37740	**Team**	UVS	**Working Group**	SWG

Time System	CDS	**Load ID**		**Calendar Date**	05/06/97 Week 19
Start	CEE-CDS 00000417:00:0	97-126/05:09:15.533		CEE-000/07:01:38.000	
End	CEE-CDS 00000382:00:0	97-126/05:44:38.867		CEE-000/06:26:14.666	
Duration	00000035:00:0	000/00:35:23.334		000/00:35:23.334	

Top Label	G8CUGLOBAL01+				
Bottom Label	(recorded)				
Plot Key	UVS	**Type**	SCI		
CDS Bytes	38	**Report Options**	BOTH	**Scan Platform**	No
CDS Source	OAP	**Spin State**	DUAL	**DMS**	No

Observation Objective

Ride-along with the NIMS Callisto Global observation to observe Callisto in the 1600Å to 3200Å wavelength regions at phase angles not obtainable from the Earth. Data will supplement and complement the NIMS surface property measurements.

Playback of this observation will require [(cds 28:00:0)*(1008 bps)] = 1.712 Mbits of UVS data.
At an expected compression ratio of 1.5 this translates to 1.14 Mbits.

UVS Configuration = F/F Full Scans

Design Detail

```
CDS RIM Command  Parameters                                   PSID
--- --- -------- -----------                                  ----
0       TARGET   (NIMS Target)
0       CSMOS    (NIMS Csmos)
0       SCIREC   (NIMS Scirec)
38  -01 CMDRS                                                (CD)
     00     1    34UVS,07,S,N,N,N,S,0,  ON,OFF,OFF,  ON,OFF,NOOVR,1,00,9C,00,00
     28     29   34UVS,C1,F,N,N,N,S,0,OFF,OFF,  ON,OFF,OFF,NOOVR,1,2C,05,00,00
```

Activity ID:	Orbit G8	OAPEL GUPHAS68		SeqNo 01-	
Title	UVS GANYMEDE PHASE (68 deg)			Instrument	UVS
Requestor	UVS-SWG/K.NAVIAUX 37740	Team	UVS	Working Group	SWG

Time System CDS	Load ID G8A	Calendar Date 05/06/97	Week 19		
Start	JEE-CDS 00003088:00:0	97-126/07:39:54.734	JEE-002/04:02:18.666		
End	JEE-CDS 00003053:00:0	97-126/08:15:18.067	JEE-002/03:26:55.333		
Duration	00000035:00:0	000/00:35:23.333	000/00:35:23.333		

Top Label	G8GUPHAS6801				
Bottom Label	(real-time)				
Plot Key	UVS	Type	SCI		
CDS Bytes	167	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

Observe Ganymede in the 1600Å to 3200Å wavelength regions at phase angles not obtainable from the Earth.

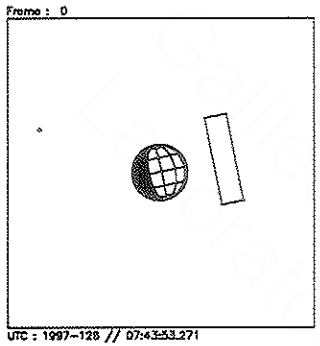
1 scan-platform slew across Ganymede in real-time at ~78° phase; 22 RIM slew duration @ 0.01 mrad/sec.

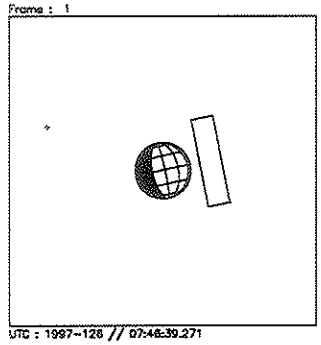
UVS Configuration = F/F Full Scans

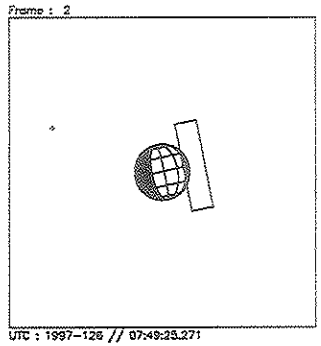
verified F/F only
June 19, 97 KES

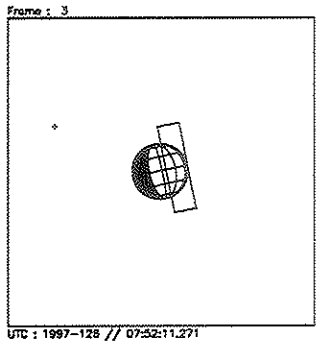
Design Detail

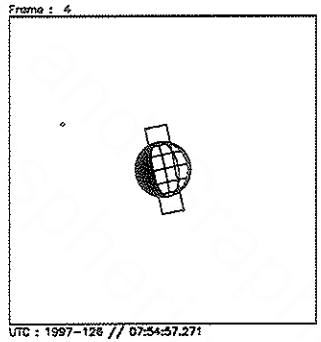
```
CDS RIM Command Parameters                                  PSID
--- --- ------- ----------                                  ----
28  002+UVFLUSH DISCRD,UVS                                  (CE)
36  004 TARGET  (4 RIM Posn_slew)                           (CC)
37  004 CSMOS   (13.35 mrad cn slew; 22 RIM duration; 0.01 mrad/s slew rate)    (CC)
38  003 CMDRS                                               (CC)
    004     1   34UVS,07,S,N,N,N,S,0, ON,OFF, ON, ON,OFF,NOOVR,1,00,9C,00,00
    026    23   34UVS,C1,F,N,N,N,S,0,OFF,OFF, ON,OFF,OFF,NOOVR,1,2C,05,00,00
28  032+UVFLUSH PACKET,UVS                                  (CF)
```

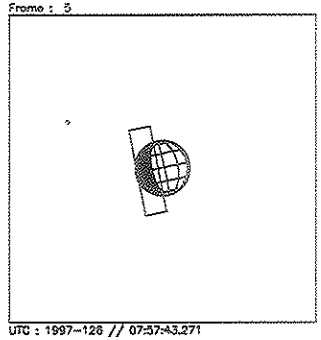


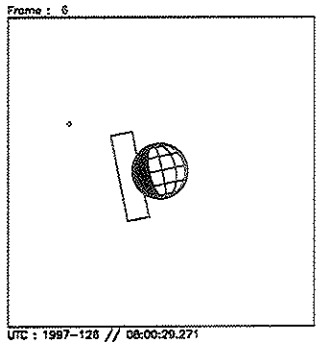


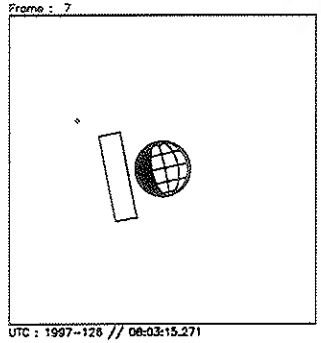


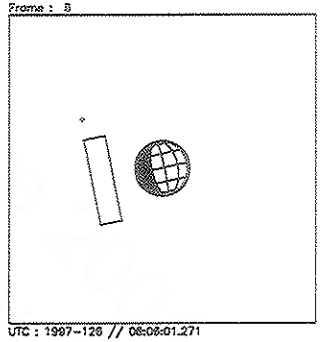












Start UTC_TIME : 1997-126 // 07:43:53.271
End UTC_TIME : 1997-126 // 08:06:07.936
Start SCLK : 1/03943451:00:0:0
Delta Time between FOV : 166.0000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : GANYMEDE
Target Cone/Clock : 110.63/ 95.06 Deg
S/C to Body Center : 1193556. Km (453.13439 Rg)
Z-axis Pointing (Ra / Dec) : 132.00 / 17.00 Deg

Activity ID:	Orbit G8	OAPEL CUSPOLE_		SeqNo	01+
Title	UVS R/A W/ NIMS CALLISTO S.POLE			Instrument	UVS
Requestor	UVS-SWG/K.NAVIAUX 37740	Team	UVS	Working Group	SWG

Time System	CDS	Load ID	G8A	Calendar Date	05/06/97 Week 19
Start	CEE-CDS 00000058:00:0	97-126/11:12:14.867		CEE-000/00:58:38.666	
End	CEE-CDS 00000020:00:0	97-126/11:50:40.200		CEE-000/00:20:13.333	
Duration	00000038:00:0	000/00:38:25.333		000/00:38:25.333	

Top Label	G8CUSPOLE_01+				
Bottom Label	(recorded)				
Plot Key	UVS	Type	SCI		
CDS Bytes	38	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

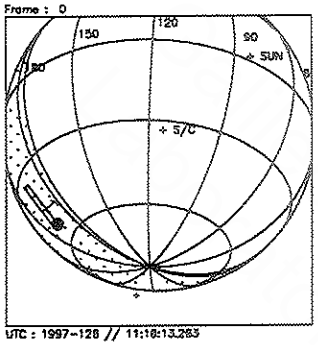
Ride-along with the NIMS Callisto South Polar observation to observe Callisto in the 1600Å to 3200Å wavelength regions at phase angles not obtainable from the Earth. Data will supplement and complement the NIMS surface property measurements.

Playback of this observation will require [(cds 33:00:0)*(1008 bps)] = 2.02 Mbits of UVS data. However, this observation is NOT CURRENTLY PLANNED to be returned with the nominal G8 UVS SWG Mbit allocation.

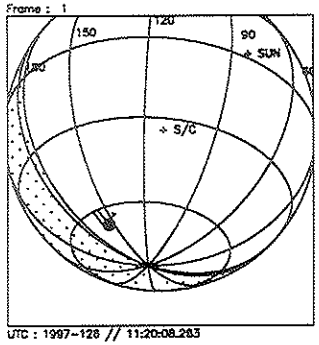
UVS Configuration = F/F Full Scans

Design Detail

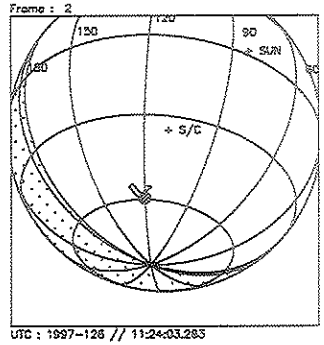
CDS	RIM	Command	Parameters	PSID
0		TARGET	(NIMS Target)	
0		CSMOS	(NIMS Csmos)	
0		SCIREC	(NIMS Scirec)	
38	003	CMDRS		(CE)
	004	1	34UVS,07,S,N,N,N,S,0, ON,OFF,OFF, ON,OFF,NOOVR,1,00,9C,00,00	
	037	34	34UVS,C1,F,N,N,N,S,0,OFF,OFF, ON,OFF,OFF,NOOVR,1,2C,05,00,00	



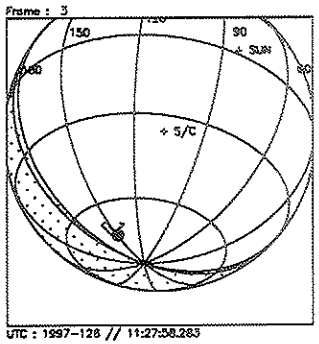
UTC : 1997-126 // 11:16:13.263
SCLK: 1/03943661:00:0:0



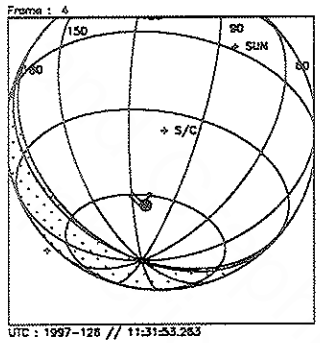
UTC : 1997-126 // 11:20:08.263
SCLK: 1/03943664:79:5:0



UTC : 1997-126 // 11:24:03.263
SCLK: 1/03943668:68:0:0



UTC : 1997-126 // 11:27:58.263
SCLK: 1/03943672:58:5:0



UTC : 1997-126 // 11:31:53.263
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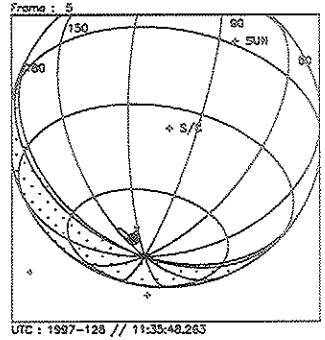

UTC : 1997-126 // 11:35:48.263
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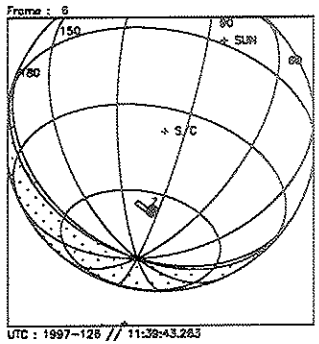

UTC : 1997-126 // 11:39:43.263
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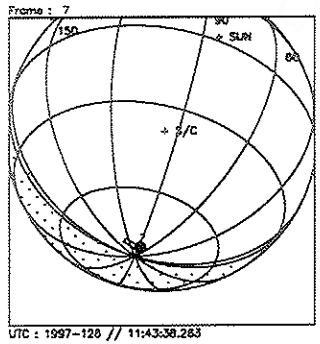

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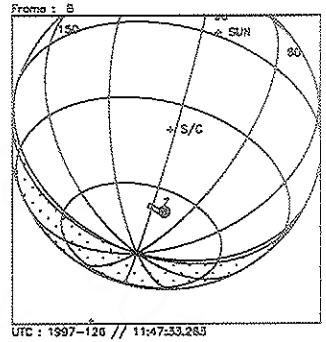


UTC : 1997-126 // 11:47:33.263
SCLK: 1/03943691:90:0:0

Start UTC_TIME : 1997-126 // 11:16:13.263
End UTC_TIME : 1997-126 // 11:47:33.928
Start SCLK : 1/03943661:00:0:0
Delta Time between FOV : 235.0000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : CALLISTO
Target Cone/Clock : 135.60/145.54 Deg
S/C to Body Center : 43313.12 Km (18.024603 Rc)
Z-axis Pointing (Ra / Dec) : 132.00 / 17.00 Deg

Activity ID:	Orbit G8	OAPEL CUBURI_		SeqNo 01-	
Title	CALLISTO - BURI CRATER REGION			**Instrument**	UVS
Requestor	UVS-SWG/J. AIELLO X37737	**Team**	UVS	**Working Group**	SWG

Time System	CDS	**Load ID**		**Calendar Date**	05/06/97 Week 19
Start	CEE+CDS 00000001:00:0	97-126/12:11:54.199		CEE+000/00:01:00.666	
End	CEE+CDS 00000016:00:0	97-126/12:27:04.199		CEE+000/00:16:10.666	
Duration	00000015:00:0	000/00:15:10.000		000/00:15:10.000	

Top Label	G8CUBURI_01-				
Bottom Label					
Plot Key	UVS	**Type**	SCI		
CDS Bytes	38	**Report Options**	BOTH	**Scan Platform**	No
CDS Source	OAP	**Spin State**	ALL	**DMS**	No

Observation Objective

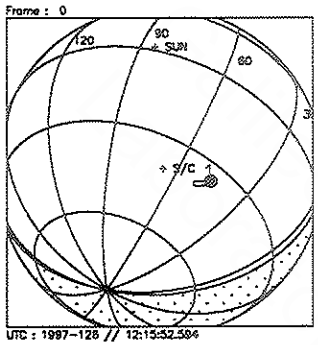
Ride-along with NIMS Buri Crater region observation, observing between 1600Å and 3200Å at phase angles not obtainable from Earth. Data will supplement and complement NIMS surface property measurements.

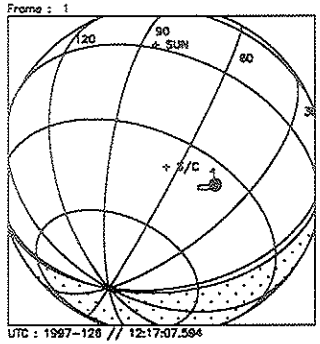
Playback of this observation will require [(cds 10:00:0)*(1008 bps) = .61 Mbits of UVS data. At an expected compression ratio of 1.3 this translates to .47 Mbits.

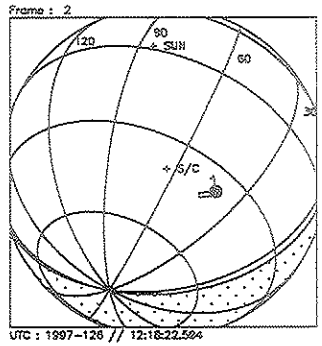
F/F full scans.

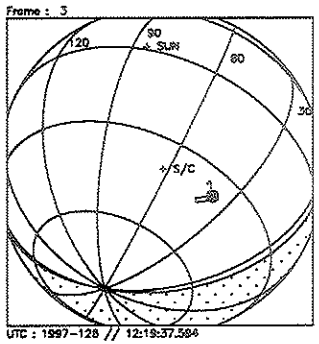
Design Detail

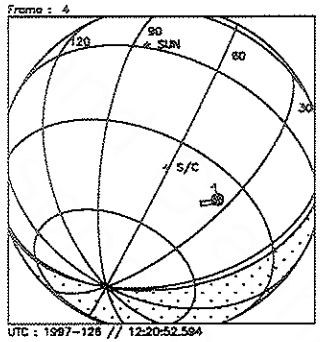
CDS	RIM	COMMAND	
38	3	CMDRS	(CO)
	4	1	34UVS,07,S,N,N,N,0,S, ON,OFF,OFF, ON,OFF,NOOVR,1,00,9C,00,00
	14	11	34UVS,C1,F,N,N,N,0,S,OFF,OFF, ON,OFF,OFF,NOOVR,1,2C,05,00,00

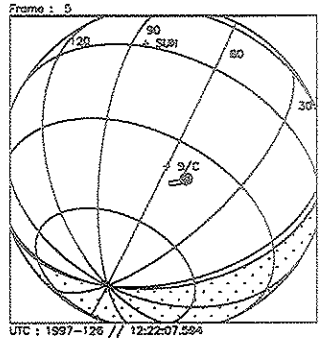


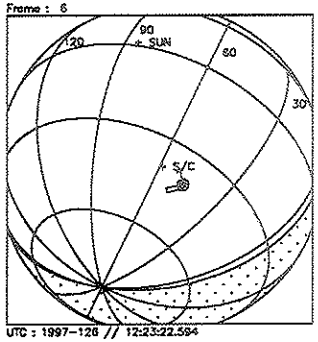


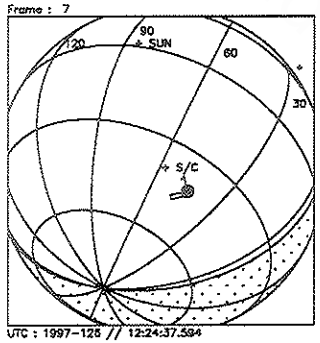


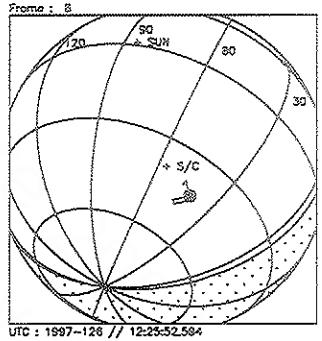












Start UTC_TIME : 1997-126 // 12:15:52.594
End UTC_TIME : 1997-126 // 12:25:59.260
Start SCLK : 1/03943720:00:0:0
Delta Time between FOV : 75.00000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : CALLISTO
Target Cone/Clock : 137.10/203.64 Deg
S/C to Body Center : 35553.64 Km (14.795521 Rc)
Z-axis Pointing (Ra / Dec) : 132.00 / 17.00 Deg

Activity ID: Orbit G8 OAPEL CUADLIND SeqNo 01+

Title UVS R/A W/ NIMS CALLISTO ADLINDA **Instrument** UVS

Requestor UVS-SWG/K.NAVIAUX 37740 **Team** UVS **Working Group** SWG

Time System CDS **Load ID** G8A **Calendar Date** 05/06/97 **Week** 19

Start	CEE+CDS 00000016:00:0	97-126/12:27:04.199	CEE+000/00:16:10.666
End	CEE+CDS 00000039:00:0	97-126/12:50:19.533	CEE+000/00:39:26.000
Duration	00000023:00:0	000/00:23:15.334	000/00:23:15.334

Top Label G8CUADLIND01+

Bottom Label (recorded)

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

Observation Objective

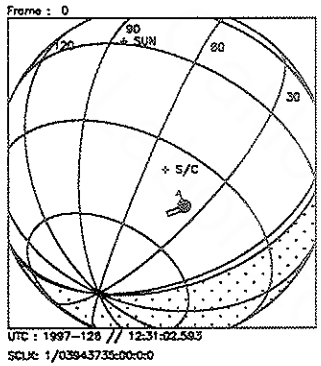
Ride-along with the NIMS Callisto Adlinda Crater observation to observe Callisto in the 1600Å to 3200Å wavelength regions at phase angles not obtainable from the Earth. Data will supplement and complement the NIMS surface property measurements.

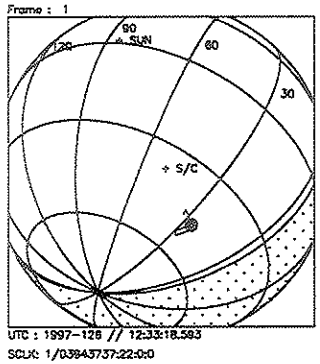
Playback of this observation will require [(cds 18:00:0)*(1008 bps)] = 1.10 Mbits of UVS data. However, this observation is NOT CURRENTLY PLANNED to be returned with the nominal G8 UVS SWG Mbit allocation.

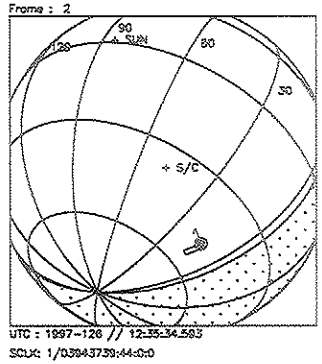
UVS Configuration = F/F Full Scans

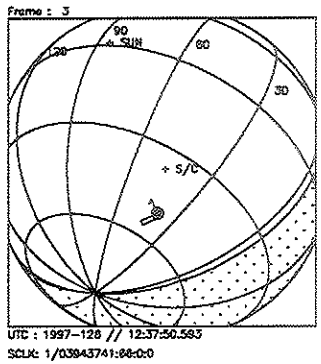
Design Detail

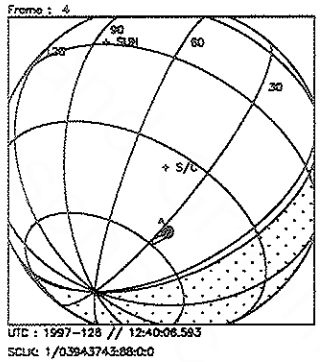
CDS	RIM	Command	Parameters	PSID
0		TARGET	(NIMS Target)	
0		CSMOS	(NIMS Csmos)	
0		SCIREC	(NIMS Scirec)	
38	003	CMDRS		(CF)
	004	1	34UVS,07,S,N,N,N,S,0, ON,OFF,OFF, ON,OFF,NOOVR,1,00,9C,00,00	
	022	19	34UVS,C1,F,N,N,N,S,0,OFF,OFF, ON,OFF,OFF,NOOVR,1,2C,05,00,00	

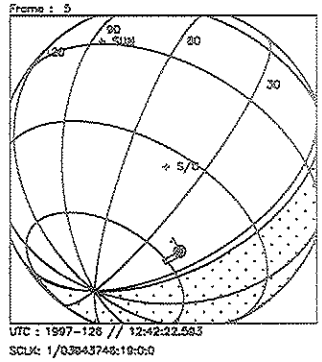


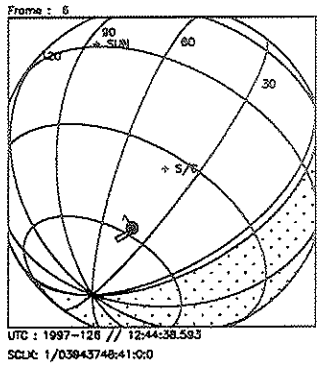


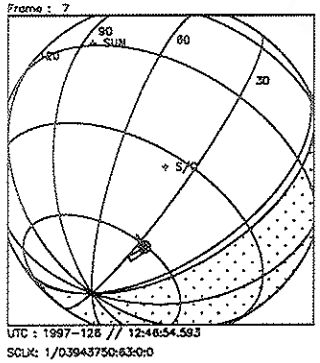


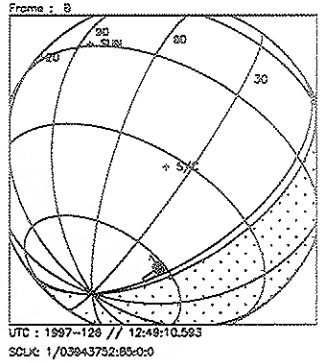












Start UTC_TIME : 1997-126 // 12:31:02.593
End UTC_TIME : 1997-126 // 12:49:14.593
Start SCLK : 1/03943735:00:0:0
Delta Time between FOV : 136.0000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : CALLISTO
Target Cone/Clock : 132.47/217.62 Deg
S/C to Body Center : 36710.87 Km (15.277101 Rc)
Z-axis Pointing (Ra / Dec) : 132.00 / 17.00 Deg

Activity ID:	Orbit G8	OAPEL IUIECLPS		SeqNo 02-	
Title	UVS IO ECLIPSE (AFTER-INGRESS)			**Instrument**	UVS
Requestor	UVS-SWG/K.NAVIAUX 37740	**Team**	UVS	**Working Group**	SWG

Time System	CDS	**Load ID**	G8A	**Calendar Date**	05/06/97 Week 19

Start	JEE-CDS 00002653:00:0	97-126/14:59:44.734	JEE-001/20:42:28.666
End	JEE-CDS 00002631:00:0	97-126/15:21:59.400	JEE-001/20:20:14.000
Duration	00000022:00:0	000/00:22:14.666	000/00:22:14.666

Top Label	G8IUIECLPS02-				
Bottom Label	(real-time)				
Plot Key	UVS	**Type**	SCI		
CDS Bytes	130	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	OAP	**Spin State**	DUAL	**DMS**	No

Observation Objective

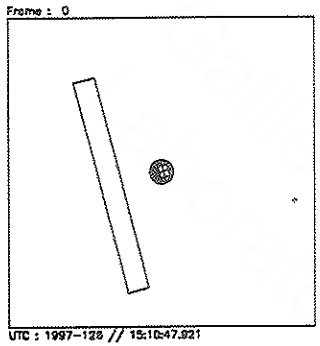
UVS real-time Io Eclipse observation. Characterize the change in the lower atmospheric UV airglow emissions as Io exits eclipse. Determine if the source of the change is due to: 1) a change in the lower atmospheric composition as it cools (ie. SO2 condensation); or 2) a potential change in the excitation mechanism if solar photoexcitation is dominant over particle impact.

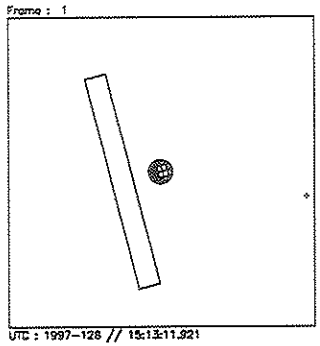
G8IUIECLPS02- = Io eclipse after ingress measurement. 1 scan-platform drift across Io in real-time (20 RIM 3-sigma drift rate) just after the satellite enters Jupiter's eclipse. This observation was shortened to avoid conflicts with the PPR Callisto c/a observations.

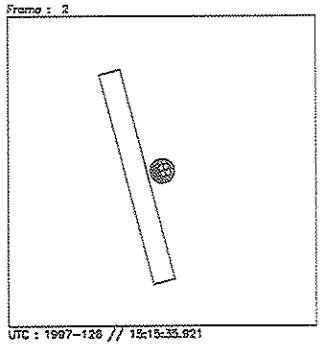
UVS Configuration = N/N Full Scans

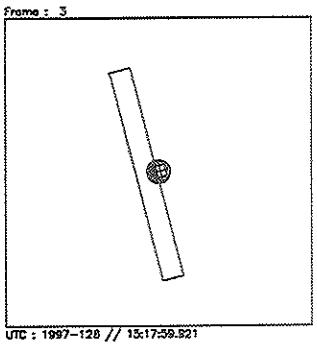
Design Detail

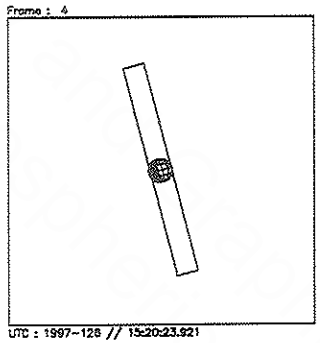
```
CDS RIM Command Parameters                                    PSID
--- --- ------- ----------                                    ----
28  001+UVFLUSH DISCRD,UVS                                    (CI)
36  003 TARGET  (3 RIM Posn_slew)                             (CE)
38  002 CMDRS                                                 (CH)
    003     1   34UVS,07,S,N,N,N,S,0,OFF,  ON,OFF,  ON,OFF,NOOVR,1,2C,9D,00,00
    022    20   34UVS,C1,F,N,N,N,S,0,OFF,OFF,  ON,OFF,OFF,NOOVR,1,2C,05,00,00
28  021+UVFLUSH PACKET,UVS                                    (CJ)
```

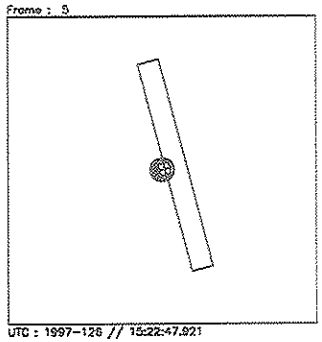


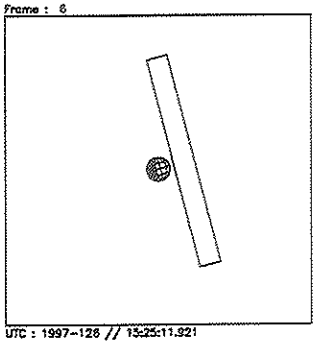


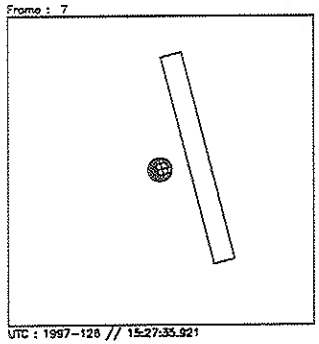


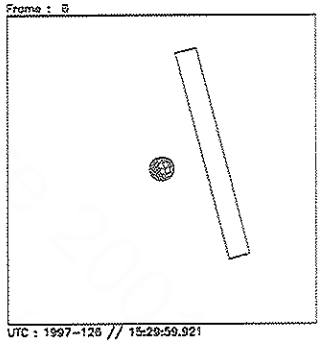












Start UTC_TIME : 1997-126 // 15:10:47.921
End UTC_TIME : 1997-126 // 15:30:00.587
Start SCLK : 1/03943893:00:0:0
Delta Time between FOV : 144.0000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : IO
Target Cone/Clock : 101.27/ 94.70 Deg
S/C to Body Center : 1895650. Km (1039.0825 Ri)
Z-axis Pointing (Ra / Dec) : 132.00 / 17.00 Deg

Activity ID:	Orbit G8	OAPEL IUIECLPS		**SeqNo**	03-
Title	UVS IO ECLIPSE (BEFORE-EGRESS)			**Instrument**	UVS
Requestor	UVS-SWG/K.NAVIAUX 37740	**Team**	UVS	**Working Group**	SWG

Time System	CDS	**Load ID**	G8A	**Calendar Date**	05/06/97 Week 19

Start	JEE-CDS 00002545:00:0	97-126/16:48:56.734	JEE-001/18:53:16.666
End	JEE-CDS 00002518:00:0	97-126/17:16:14.734	JEE-001/18:25:58.666
Duration	00000027:00:0	000/00:27:18.000	000/00:27:18.000

Top Label	G8IUIECLPS03-				
Bottom Label	(real-time)				
Plot Key	UVS	**Type**	SCI		
CDS Bytes	130	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	OAP	**Spin State**	DUAL	**DMS**	No

Observation Objective

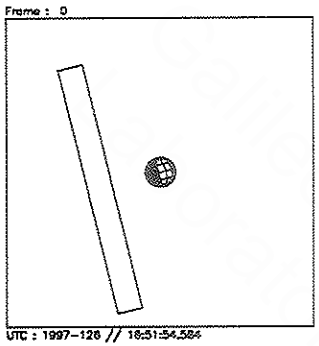
UVS real-time Io Eclipse observation. Characterize the change in the lower atmospheric UV airglow emissions as Io exits eclipse. Determine if the source of the change is due to: 1) a change in the lower atmospheric composition as it cools (ie. SO2 condensation); or 2) a potential change in the excitation mechanism if solar photoexcitation is dominant over particle impact.

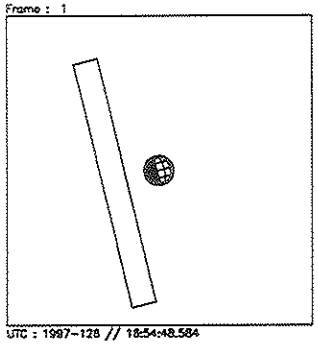
G8IUIECLPS03- = Io eclipse before egress measurement. 1 scan-platform drift across Io in real-time (26 RIM 3-sigma drift rate) just prior to the satellite leaving Jupiter's eclipse. This observation was shortened to avoid conflicts with the PPR Callisto c/a observations.

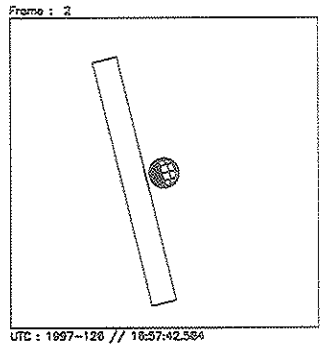
UVS Configuration = N/N Full Scans

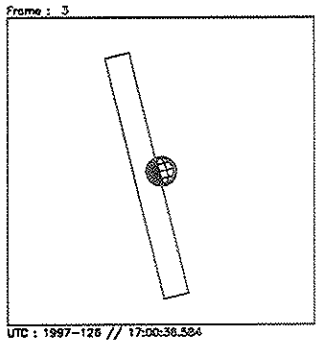
Design Detail

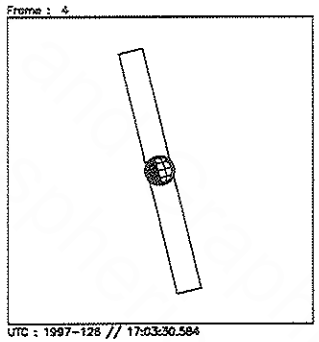
```
CDS RIM Command  Parameters                                  PSID
--- --- -------  ----------                                  ----
28  001+UVFLUSH DISCRD,UVS                                  (CK)
36  003 TARGET  (3 RIM Posn_slew)                           (CF)
38  002 CMDRS                                               (CJ)
    003     1   34UVS,07,S,N,N,N,S,0,OFF,  ON,OFF,  ON,OFF,NOOVR,1,2C,9D,00,00
    026    24   34UVS,C1,F,N,N,N,S,0,OFF,OFF,  ON,OFF,OFF,NOOVR,1,2C,05,00,00
28  025+UVFLUSH PACKET,UVS                                  (CL)
```

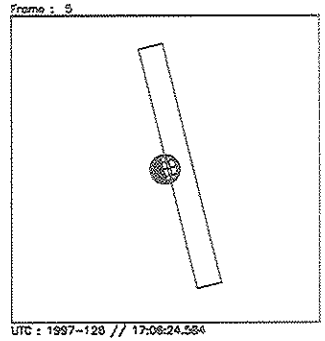


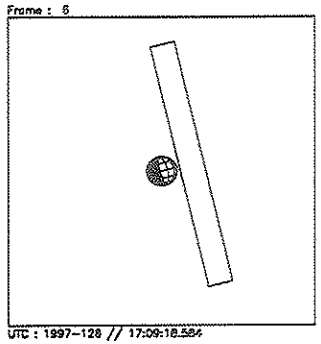


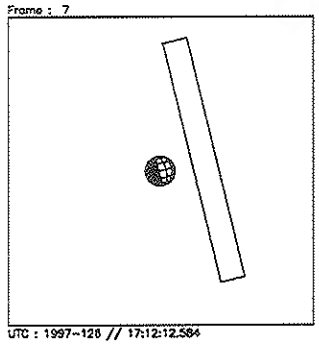


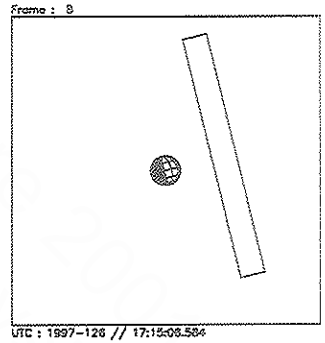












Start UTC_TIME : 1997-126 // 16:51:54.584
End UTC_TIME : 1997-126 // 17:15:09.916
Start SCLK : 1/03943993:00:0:0
Delta Time between FOV : 174.0000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : IO
Target Cone/Clock : 103.70/ 94.63 Deg
S/C to Body Center : 175970:. Km (964.56809 Ri)
Z-axis Pointing (Ra / Dec) : 132.00 / 17.00 Deg

Activity ID:	Orbit G8	OAPEL IUIECLPS		SeqNo 04-	
Title	UVS IO ECLIPSE (AFTER-EGRESS)			**Instrument**	UVS
Requestor	UVS-SWG/K.NAVIAUX 37740	**Team**	UVS	**Working Group**	SWG

Time System	CDS	**Load ID**	G8A	**Calendar Date**	05/06/97 Week 19
Start	JEE-CDS 00002517:00:0	97-126/17:17:15.400		JEE-001/18:24:58.000	
End	JEE-CDS 00002490:00:0	97-126/17:44:33.400		JEE-001/17:57:40.000	
Duration	00000027:00:0	000/00:27:18.000		000/00:27:18.000	

Top Label	G8IUIECLPS04-				
Bottom Label	(real-time)				
Plot Key	UVS	**Type**	SCI		
CDS Bytes	130	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	OAP	**Spin State**	DUAL	**DMS**	No

Observation Objective

UVS real-time Io Eclipse observation. Characterize the change in the lower atmospheric UV airglow emissions as Io exits eclipse. Determine if the source of the change is due to: 1) a change in the lower atmospheric composition as it cools (ie. SO2 condensation); or 2) a potential change in the excitation mechanism if solar photoexcitation is dominant over particle impact.

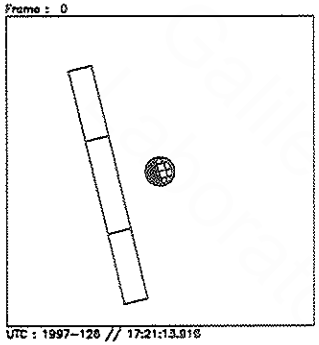
G8IUIECLPS04- = Io eclipse after egress measurement. 1 scan-platform drift across Io in real-time (26 RIM 3-sigma drift rate) just prior to the satellite leaving Jupiter's eclipse. This observation was shortened to avoid conflicts with the PPR Callisto c/a observations.

UVS Configuration = F/G Full Scans

Design Detail

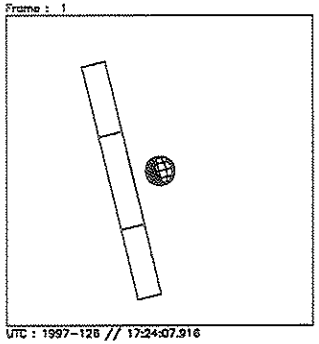
```
CDS RIM Command  Parameters                                          PSID
--- --- -------- ----------                                          ----
28  002+UVFLUSH DISCRD,UVS                                          (CM)
36  004 TARGET  (4 RIM Posn_slew)                                   (CG)
38  003 CMDRS                                                       (CK)
    004     1   34UVS,07,S,N,N,N,S,0, ON,OFF, ON, ON,OFF,NOOVR,1,00,9C,01,2C
    027    24   34UVS,C1,F,N,N,N,S,0,OFF,OFF, ON,OFF,OFF,NOOVR,1,2C,05,00,00
28  026+UVFLUSH PACKET,UVS                                          (CN)
```

Frame : 0



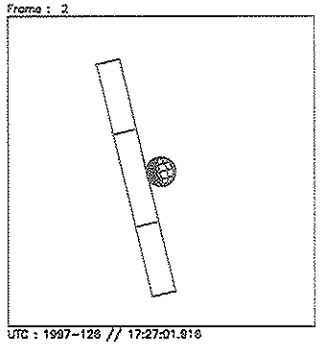
UTC : 1997-126 // 17:21:13.916
SCLK: 1/03944022:00:0:0

Frame : 1



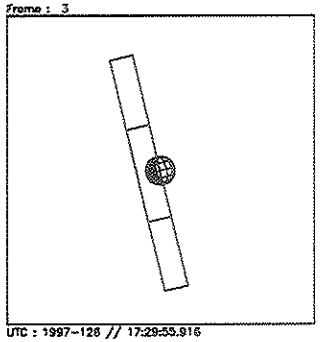
UTC : 1997-126 // 17:24:07.916
SCLK: 1/03944024:79:0:0

Frame : 2



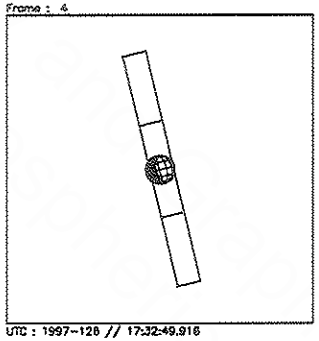
UTC : 1997-126 // 17:27:01.916
SCLK: 1/03944027:67:0:0

Frame : 3



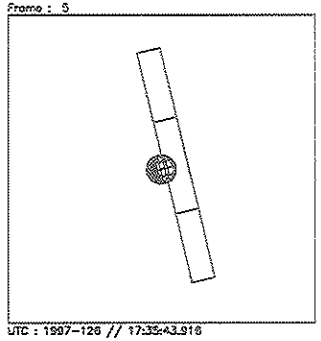
UTC : 1997-126 // 17:29:55.916
SCLK: 1/03944030:55:0:0

Frame : 4



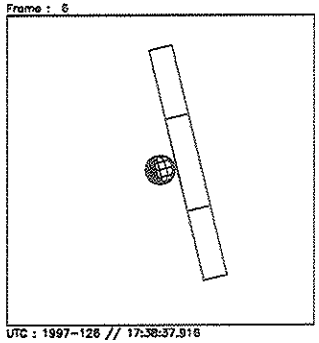
UTC : 1997-126 // 17:32:49.916
SCLK: 1/03944033:43:0:0

Frame : 5



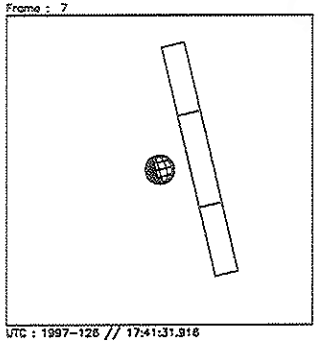
UTC : 1997-126 // 17:35:43.916
SCLK: 1/03944036:31:0:0

Frame : 6



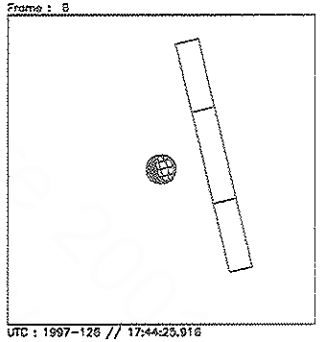
UTC : 1997-126 // 17:38:37.916
SCLK: 1/03944039:19:0:0

Frame : 7



UTC : 1997-126 // 17:41:31.916
SCLK: 1/03944042:07:0:0

Frame : 8



UTC : 1997-126 // 17:44:25.916
SCLK: 1/03944044:86:0:0

Start UTC_TIME : 1997-126 // 17:21:13.916
End UTC_TIME : 1997-126 // 17:44:29.248
Start SCLK : 1/03944022:00:0:0
Delta Time between FOV : 174.0000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : IO
Target Cone/Clock : 104.32/ 94.61 Deg
S/C to Body Center : 1719527. Km (942.54255 Ri)
Z-axis Pointing (Ra / Dec) : 132.00 / 17.00 Deg

Activity ID:	Orbit G8	OAPEL IUNTRLCL		SeqNo	01-
Title	UVS IO NEUTRAL CLOUD			Instrument	UVS
Requestor	UVS-SWG/J. AIELLO 30523	Team	UVS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/06/97 Week 19
Start	JEE-CDS 00002459:00:0	97-126/18:15:54.067		JEE-001/17:26:19.333	
End	JEE-CDS 00002247:00:0	97-126/21:50:15.400		JEE-001/13:51:58.000	
Duration	00000212:00:0	000/03:34:21.333		000/03:34:21.333	

Top Label	G8IUNTRLCL01-				
Bottom Label	(real-time)				
Plot Key	UVS	Type	SCI		
CDS Bytes	422	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

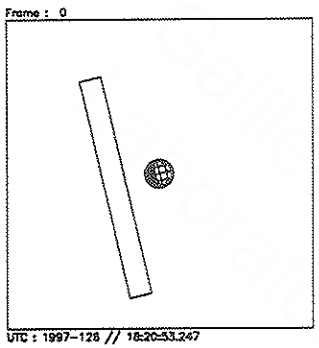
~4 hour UVS real-time Io Neutral Cloud observation. Determine the composition and time variation of the ionized Io neutral cloud (SO2, SO, O, S, K, Na) to assist in the modeling of the Io plasma torus and Io atmosphere.

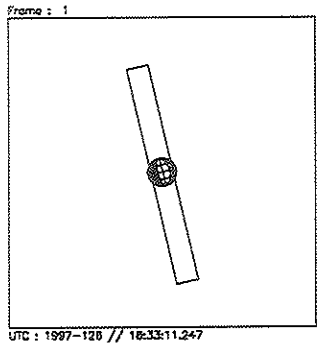
Target the s/p 2 Io radii off the satellite surface and allow s/c motion to drift the FOV over Io two times at 20 RIMS per drift. Target the s/p also at positions 4 and 2 Io radii off both sides of the satelllite surface and dwell for 40 RIMs at each via TMC.

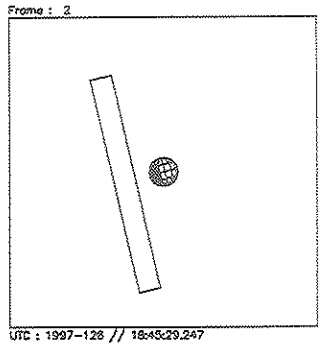
UVS Configuration = G/G FIXED 1256 AND 1479

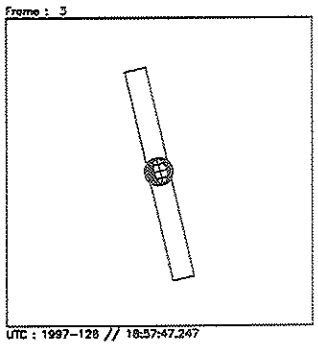
Design Detail

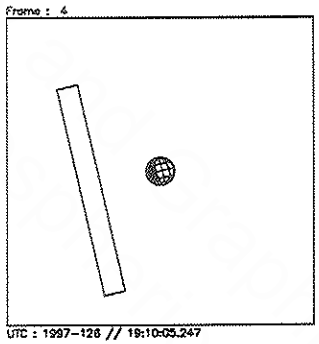
CDS	RIM	Command	Parameters	PSID	
28	002	+UVFLUSH	DISCRD,UVS	(CK)	
38	003	CMDRS		(CL)	
	004	1	34UVS,D3,F,N,N,N,S,0,OFF,OFF, ON, ON,OFF,NOOVR,1,72,4D,00,92		1256/1479
	211	208	34UVS,C1,F,N,N,N,S,0,OFF,OFF, ON,OFF,OFF,NOOVR,1,2C 05,00,00		HV OFF
36	004	TARGET	(4 RIM Posn_slew)	(CH)	
36	027	TARGET	(3 RIM Posn_slew)	(CJ)	
28	046	+UVFLUSH	PACKET,UVS	(CM)	
36	048	TARGET	(1 RIM Posn_slew)	(CK)	
28	087	+UVFLUSH	PACKET,UVS	(CN)	
36	089	TARGET	(1 RIM Posn_slew)	(CL)	
28	128	+UVFLUSH	PACKET,UVS	(CO)	
36	130	TARGET	(1 RIM Posn_slew)	(CM)	
28	169	+UVFLUSH	PACKET,UVS	(CS)	
36	171	TARGET	(1 RIM Posn_slew)	(CN)	
28	210	+UVFLUSH	PACKET,UVS	(CQ)	

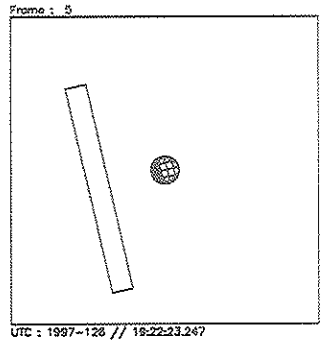


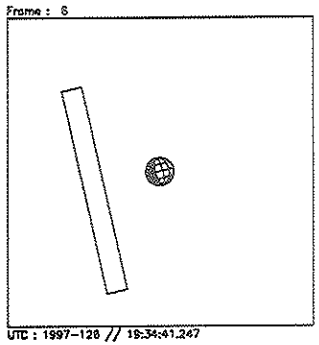


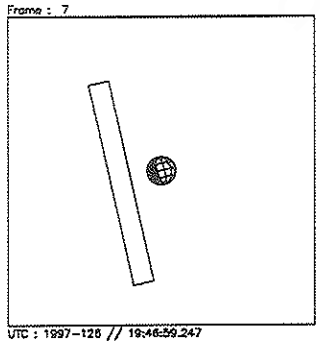


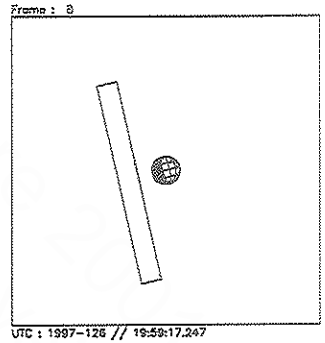






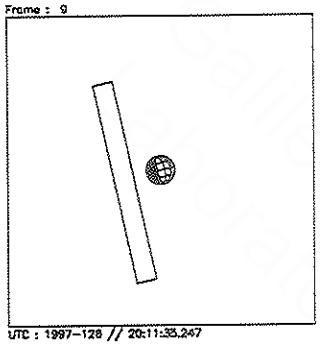


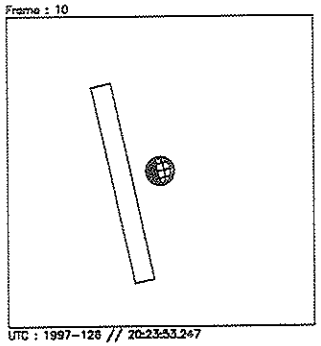


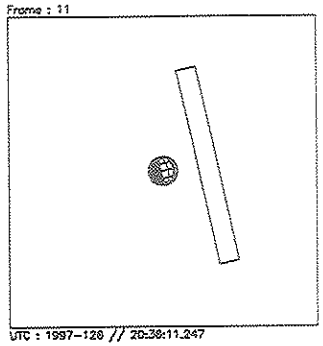


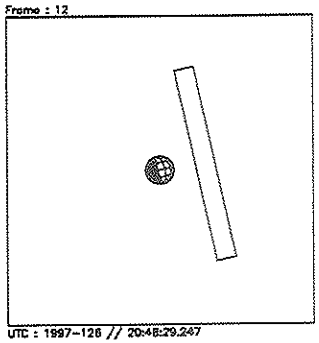
Start UTC_TIME : 1997-126 // 18:20:53.247
End UTC_TIME : 1997-126 // 21:50:11.239
Start SCLK : 1/03944081:00:0:0
Delta Time between FOV : 738.0000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

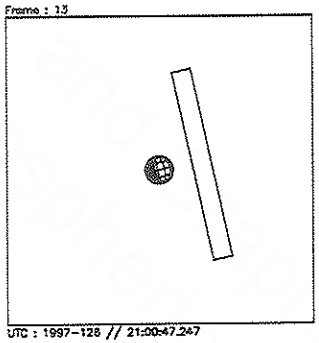
Target Body : IO
Target Cone/Clock : 105.44/ 94.58 Deg
S/C to Body Center : 163737:. Km (897.51417 Ri)
Z-axis Pointing (Ra / Dec) : 132.00 / 17.00 Deg

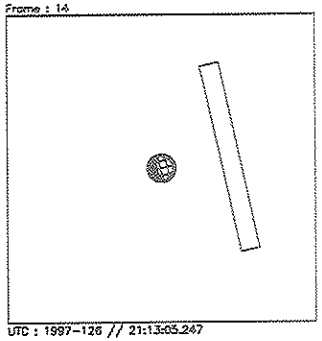


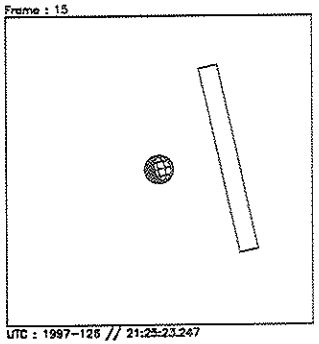


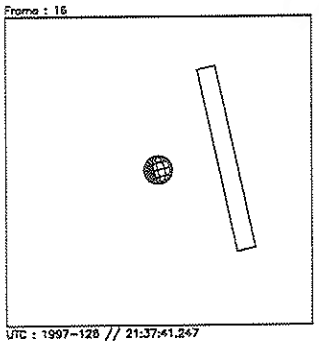


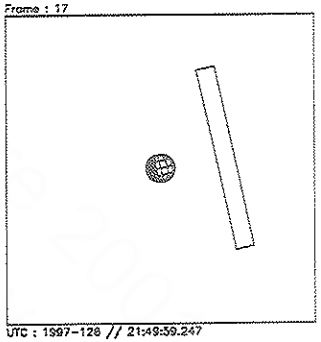












Start UTC_TIME : 1997-126 // 18:20:53.247
End UTC_TIME : 1997-126 // 21:50:11.239
Start SCLK : 1/03944081:00:0:0
Delta Time between FOV : 738.0000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : IO
Target Cone/Clock : 106.94/ 94.54 Deg
S/C to Body Center : 1486233. Km (814.66450 Ri)
Z-axis Pointing (Ra / Dec) : 132.00 / 17.00 Deg

Activity ID:	Orbit G8	**OAPEL** IUPHAS73	**SeqNo** 01-
Title	UVS IO PHASE OBSERVATION (~73 DEG)		**Instrument** UVS
Requestor	UVS-SWG/J.AIELLO 30523	**Team** UVS	**Working Group** SWG

Time System	CDS	**Load ID**		**Calendar Date** 05/07/97	**Week** 19
Start	JEE-CDS 00002015:00:0	97-127/01:44:50.067		JEE-001/09:57:23.333	
End	JEE-CDS 00001988:00:0	97-127/02:12:08.067		JEE-001/09:30:05.333	
Duration	00000027:00:0	000/00:27:18.000		000/00:27:18.000	

Top Label	G8IUPHAS7301-				
Bottom Label	(real-time)				
Plot Key	UVS	**Type**	SCI		
CDS Bytes	130	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	OAP	**Spin State**	DUAL	**DMS**	No

Observation Objective

UVS real-time observation of Io at phase angle unobtainable from Earth.

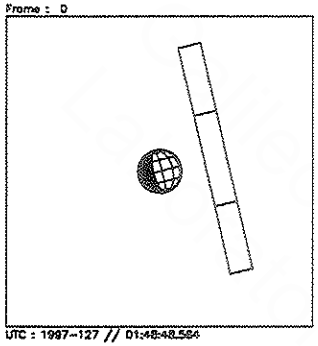
1 scan-platform drift across Io in real-time.

UVS Configuration = F/N Full Scans

Design Detail

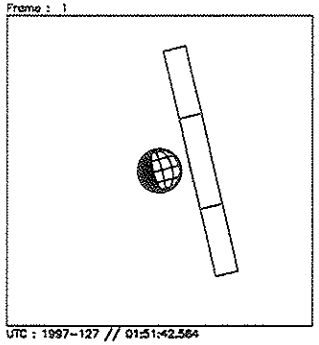
```
CDS RIM Command Parameters                                  PSID
--- --- ------- ----------                                  ----
28  003+UVFLUSH DISCRD,UVS                                  (CG)
36  004 TARGET  (4 RIM Posn_slew)                           (CD)
38  003 CMDRS                                               (CG)
    004     1   34UVS,07,S,N,N,N,S,0,  ON,  ON,OFF,  ON,OFF,NOOVR,1,00,9C,01,2C
    027     24  34UVS,C1,F,N,N,N,S,0,OFF,OFF,  ON,OFF,OFF,NOOVR,1,2C,05,00,00
28  026+UVFLUSH PACKET,UVS                                  (CH)
```

Frame : 0



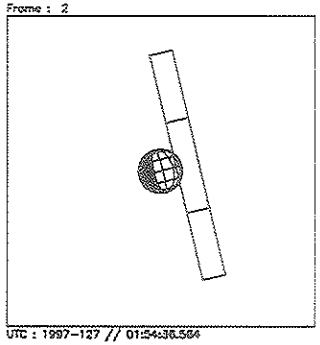
UTC : 1997-127 // 01:48:48.564
SCLK: 1/03944524:00:0:0

Frame : 1



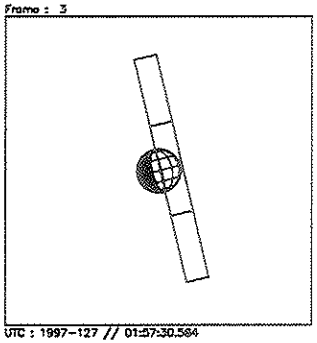
UTC : 1997-127 // 01:51:42.564
SCLK: 1/03944528:79:0:0

Frame : 2



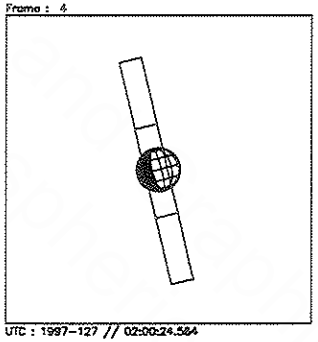
UTC : 1997-127 // 01:54:36.564
SCLK: 1/03944529:67:0:0

Frame : 3



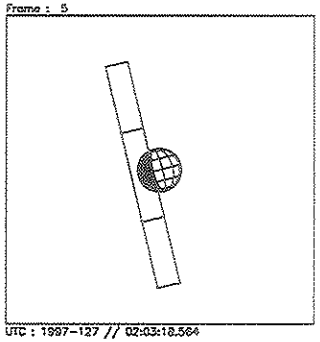
UTC : 1997-127 // 01:57:30.564
SCLK: 1/03944532:55:0:0

Frame : 4



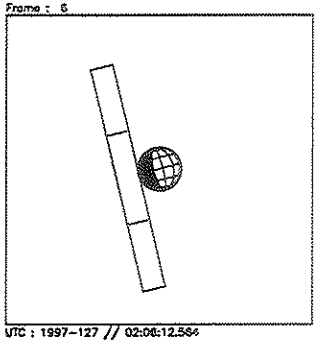
UTC : 1997-127 // 02:00:24.564
SCLK: 1/03944535:43:0:0

Frame : 5



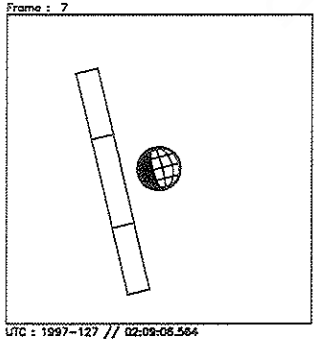
UTC : 1997-127 // 02:03:18.564
SCLK: 1/03944538:31:0:0

Frame : 6



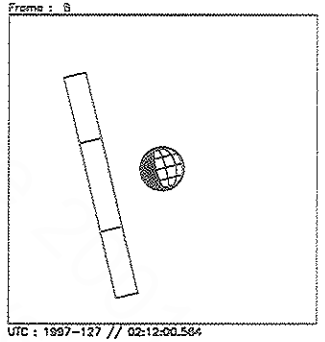
UTC : 1997-127 // 02:06:12.564
SCLK: 1/03944541:19:0:0

Frame : 7



UTC : 1997-127 // 02:09:06.564
SCLK: 1/03944544:07:0:0

Frame : 8



UTC : 1997-127 // 02:12:00.564
SCLK: 1/03944546:86:0:0

Start UTC_TIME : 1997-127 // 01:48:48.564
End UTC_TIME : 1997-127 // 02:12:03.896
Start SCLK : 1/03944524:00:0:0
Delta Time between FOV : 174.0000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : IO
Target Cone/Clock : 105.03/ 94.57 Deg
S/C to Body Center : 1099228. Km (602.53114 Ri)
Z-axis Pointing (Ra / Dec) : 132.00 / 17.00 Deg

Activity ID:	Orbit G8	OAPEL EUPHAS65	SeqNo 01-
Title	UVS EUROPA PHASE (~65 deg)		**Instrument** UVS
Requestor	UVS-SWG/J. AIELLO X37737	**Team** UVS	**Working Group** SWG

Time System CDS	**Load ID**		**Calendar Date** 05/07/97	Week 19
Start	JEE-CDS 00001540:00:0	97-127/09:45:06.734	JEE-001/01:57:06.666	
End	JEE-CDS 00001505:00:0	97-127/10:20:30.067	JEE-001/01:21:43.333	
Duration	00000035:00:0	000/00:35:23.333	000/00:35:23.333	

Top Label	G8EUPHAS6501-				
Bottom Label	(REAL-TIME)				
Plot Key	UVS	**Type**	SCI		
CDS Bytes	130	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	OAP	**Spin State**	DUAL	**DMS**	No

Observation Objective

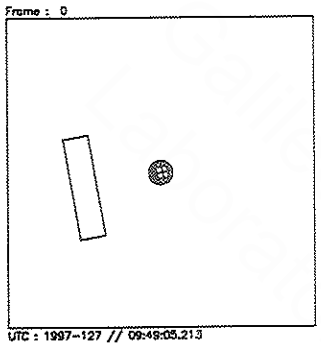
Observe Europa between 1600A and 3200A at phase angles not obtainable from the Earth to supplement and complement the NIMS surface property measurements.

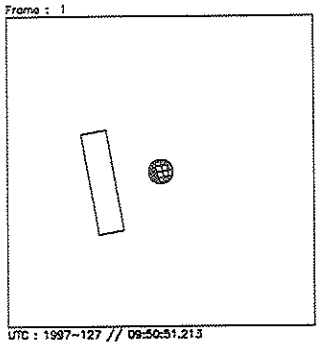
1 scan-platform drift across Europa in real-time at ~65 deg phase (S/C subpt ~10 deg longitude; 14 RIM 3-sigma drift rate).

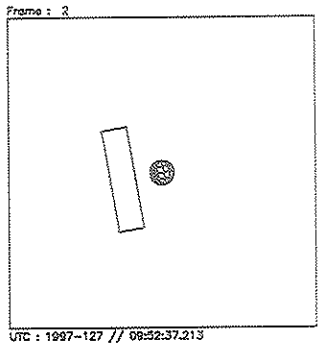
F/F Full Scans

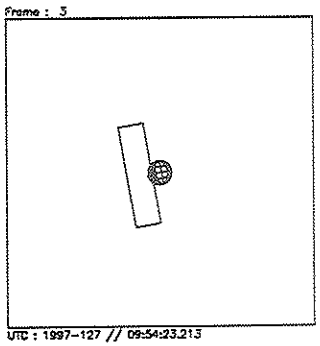
Design Detail

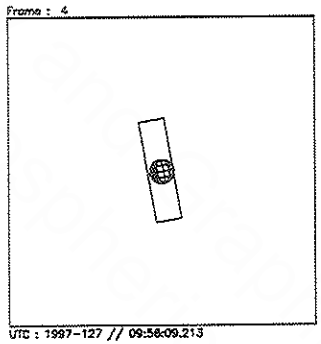
```
CDS     RIM     COMMAND
---     ---     -------
28      002+    UVFLUSH DISCRD,UVS              (CX)
38      003 CMDRS                          (CM)
        004     1   34UVS,07,S,N,N,N,S,0,  ON,OFF,OFF,  ON,OFF,NOOVR,1,00,9C,00,00
        018     15  34UVS,C1,F,N,N,N,S,0,OFF,OFF,  ON,OFF,OFF,NOOVR,1,2C,05,00,00
36      004     TARGET (4 RIM Posn_slew)        (CI)
28      032+    UVFLUSH,PACKET,UVS              (CY)
```

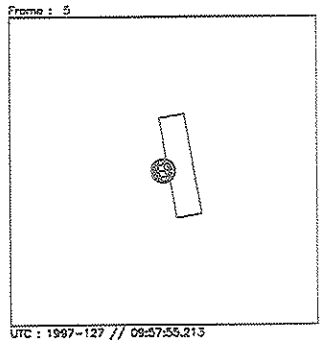


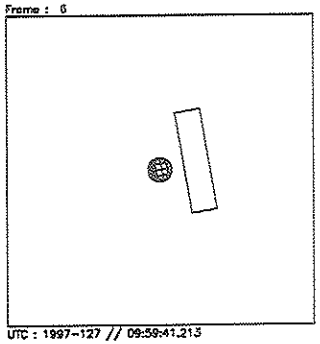


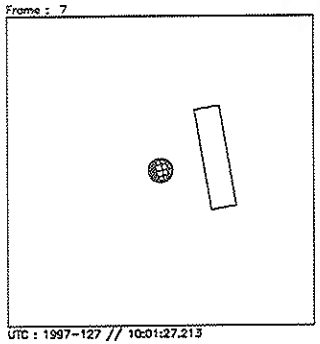


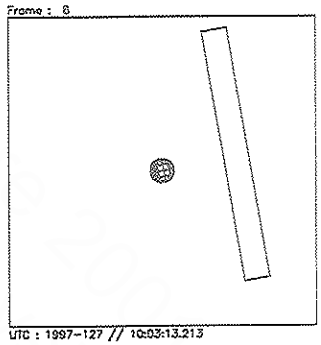












Start UTC_TIME : 1997-127 // 09:49:05.213
End UTC_TIME : 1997-127 // 10:03:14.546
Start SCLK : 1/03944999:00:0:0
Delta Time between FOV : 106.0000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : EUROPA
Target Cone/Clock : 102.83/ 96.35 Deg
S/C to Body Center : 1911195. Km (1221.2107 Re)
Z-axis Pointing (Ra / Dec) : 142.40 / 14.40 Deg

Activity ID: Orbit G8 OAPEL GUOSIRIS SeqNo 01+

Title UVS R/A W/ NIMS OSIRIS CRATER Instrument UVS

Requestor UVS-SWG/K.NAVIAUX 37740 Team UVS Working Group SWG

Time System CDS Load ID G8A Calendar Date 05/07/97 Week 19

Start	GTE-CDS 00000157:00:0	97-127/13:17:26.800	GTE-000/02:38:44.666
End	GTE-CDS 00000141:00:0	97-127/13:33:37.466	GTE-000/02:22:34.000
Duration	00000016:00:0	000/00:16:10.666	000/00:16:10.666

Top Label G8GUOSIRIS01+

Bottom Label (recorded)

Plot Key UVS Type SCI

CDS Bytes 38 Report Options BOTH Scan Platform No

CDS Source OAP Spin State DUAL DMS No

Observation Objective

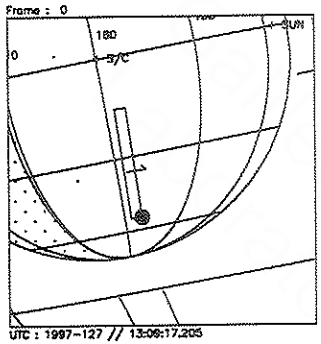
Ride-along with the NIMS Ganymede Osiris Crater observation to observe Ganymede in the 1600Å to 3200Å wavelength regions at phase angles not obtainable from the Earth. Data will supplement and complement the NIMS surface property measurements.

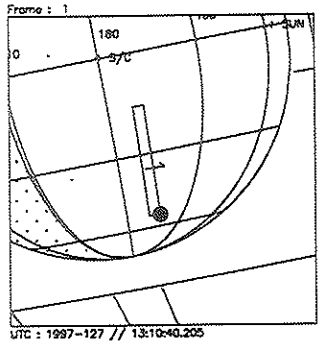
Playback of this observation will require [(cds 11:00:0)*(1008 bps)] = 0.67 Mbits of UVS data. However, this observation is NOT CURRENTLY PLANNED to be returned with the nominal G8 UVS SWG Mbit allocation.

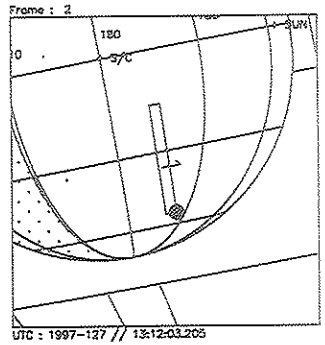
UVS Configuration = 1215/1303 16-Step

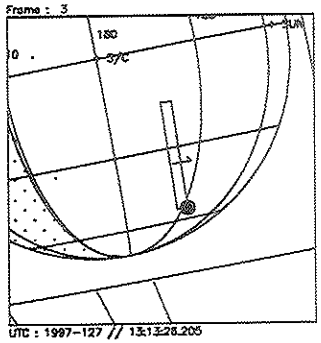
Design Detail

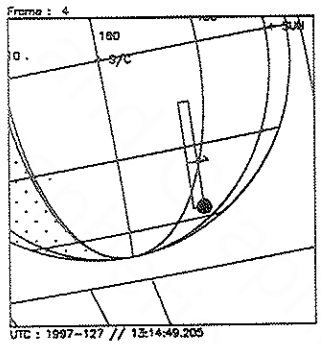
```
CDS RIM Command Parameters                                    PSID
--- --- ------- ----------                                    ----
0       TARGET  (NIMS Target)
0       CSMOS   (NIMS Csmos)
0       SCIREC  (NIMS Scirec)
38  000 CMDRS                                                 (CN)
    001     1   34UVS,D1,S,N,N,N,S,0,OFF,OFF,  ON,  ON,OFF,NOOVR,1,5A,45,00,39
    012     12  34UVS,C1,F,N,N,N,S,0,OFF,OFF,  ON,OFF,OFF,NOOVR,1,2C,05,00,00
```

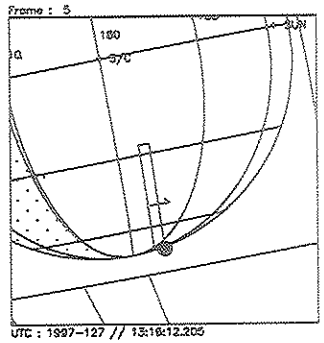


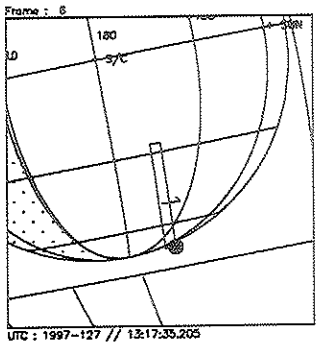


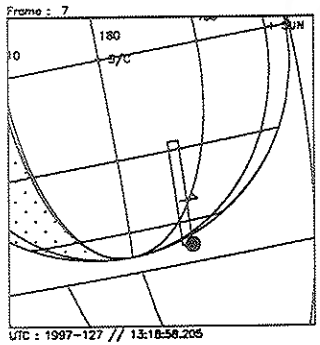


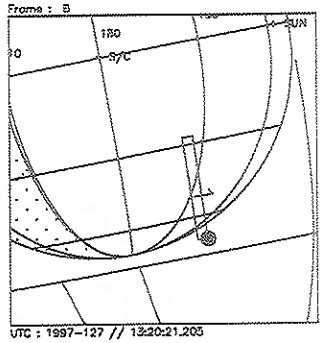












Start UTC_TIME : 1997-127 // 13:09:17.205
End UTC_TIME : 1997-127 // 13:20:24.538
Start SCLK : 1/03945197:00:0:0
Delta Time between FOV : 83.00000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : GANYMEDE
Target Cone/Clock : 105.41/ 96.59 Deg
S/C to Body Center : 84614.35 Km (32.123900 Rg)
Z-axis Pointing (Ra / Dec) : 142.40 / 14.40 Deg

Activity ID:	Orbit G8	OAPEL GUURUK__		SeqNo 01+	
Title	UVS R/A W/ NIMS URUK SULCUS CRATER			Instrument	UVS
Requestor	UVS-SWG/K.NAVIAUX 37740	Team	UVS	Working Group	SWG

Time System	CDS	Load ID	G8A	Calendar Date	05/07/97 Week 19
Start	GTE-CDS 00000080:00:0	97-127/14:35:18.133		GTE-000/01:20:53.333	
End	GTE-CDS 00000060:00:0	97-127/14:55:31.466		GTE-000/01:00:40.000	
Duration	00000020:00:0	000/00:20:13.333		000/00:20:13.333	

Top Label	G8GUURUK__01+				
Bottom Label	(recorded)				
Plot Key	UVS	Type	SCI		
CDS Bytes	38	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

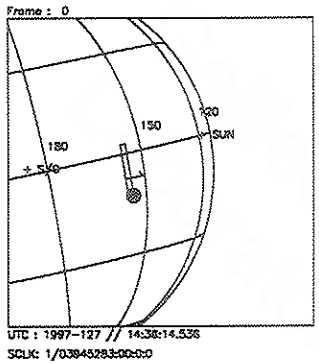
Ride-along with the NIMS Ganymede Uruk Sulcus Crater observation to observe Ganymede in the 1600Å to 3200Å wavelength regions at phase angles not obtainable from the Earth. Data will supplement and complement the NIMS surface property measurements.

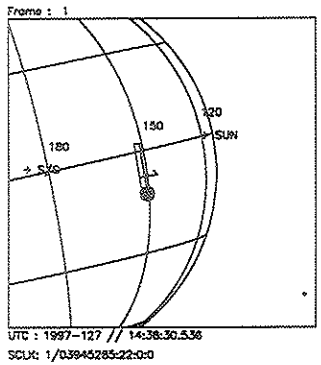
Playback of this observation will require [(cds 18:00:0)*(1008 bps)] = 1.10 Mbits of UVS data. However, this observation is NOT CURRENTLY PLANNED to be returned with the nominal G8 UVS SWG Mbit allocation.

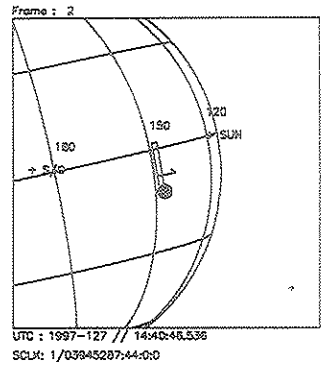
UVS Configuration = 1215/1303 16-Step

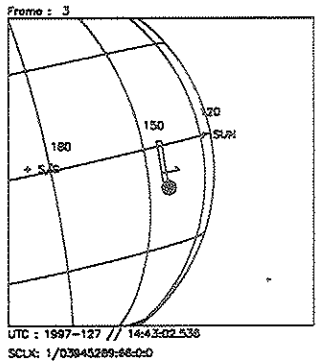
Design Detail

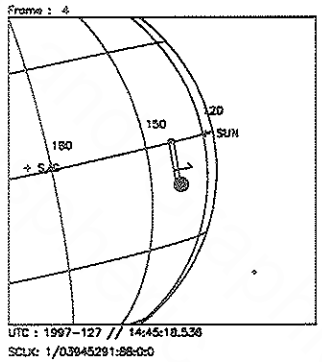
```
CDS RIM Command Parameters                                  PSID
--- --- ------- ----------                                  ----
0       TARGET  (NIMS Target)
0       CSMOS   (NIMS Csmos)
0       SCIREC  (NIMS Scirec)
38  000 CMDRS                                               (CP)
    001     1   34UVS,D1,S,N,N,N,S,0,OFF,OFF,  ON,  ON,OFF,NOOVR,1,5A,45,00,39
    019     19  34UVS,C1,F,N,N,N,S,0,OFF,OFF,  ON,OFF,OFF,NOOVR,1,2C,05,00,00
```

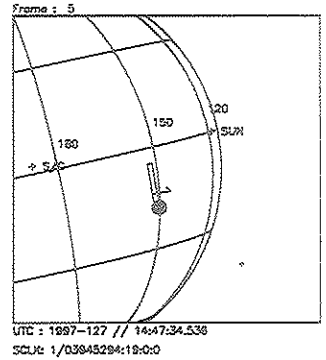


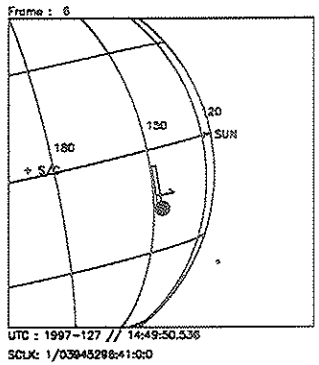


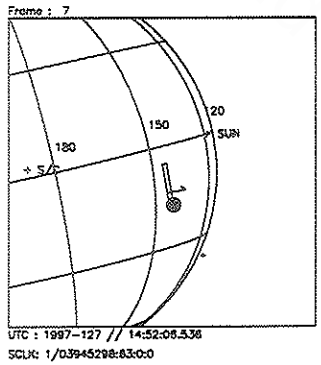


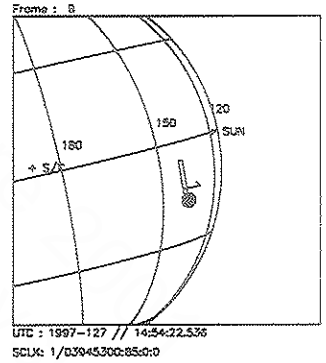












Start UTC_TIME : 1997-127 // 14:36:14.536
End UTC_TIME : 1997-127 // 14:54:26.535
Start SCLK : 1/03945283:00:0:0
Delta Time between FOV : 136.0000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : GANYMEDE
Target Cone/Clock : 102.55/ 95.10 Deg
S/C to Body Center : 40694.57 Km (15.449721 Rg)
Z-axis Pointing (Ra / Dec) : 142.40 / 14.40 Deg

Activity ID: Orbit G8 OAPEL GUTRANSI SeqNo 01+

Title UVS R/A W/ NIMS TRANSITION BNDRY Instrument UVS

Requestor UVS-SWG/K.NAVIAUX 37740 Team UVS Working Group SWG

Time System CDS Load ID G8A Calendar Date 05/07/97 Week 19

Start	GTE-CDS 00000059:00:0	97-127/14:56:32.133	GTE-000/00:59:39.333
End	GTE-CDS 00000050:00:0	97-127/15:05:38.133	GTE-000/00:50:33.333
Duration	00000009:00:0	000/00:09:06.000	000/00:09:06.000

Top Label G8GUTRANSI01+

Bottom Label (recorded)

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

Observation Objective

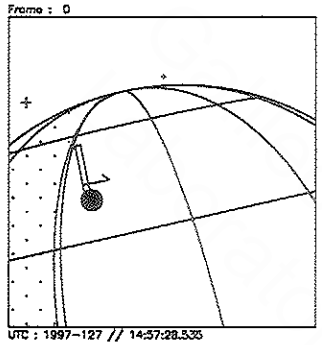
Ride-along with the NIMS Ganymede Eshmun Crater observation to observe Ganymede in the 1600Å to 3200Å wavelength regions at phase angles not obtainable from the Earth. Data will supplement and complement the NIMS surface property measurements.

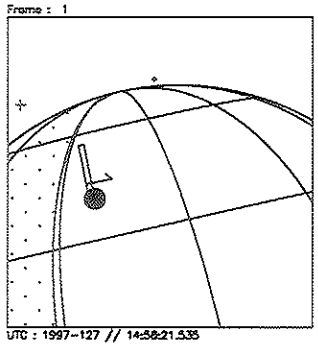
Playback of this observation will require [(cds 07:00:0)*(1008 bps)] = 0.43 Mbits of UVS data.
At an expected compression ratio of 1.6, this translates to .269 Mbits.
This observation is CURRENTLY PLANNED to be returned in full within the nominal G8 UVS SWG Mbit allocation.

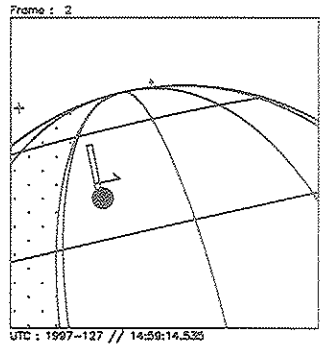
UVS Configuration = 1215/1303 16-Step

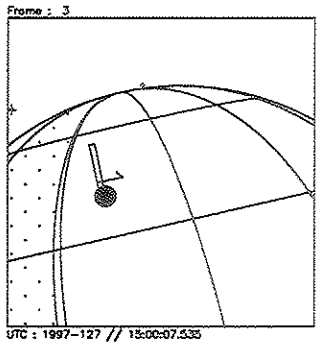
Design Detail

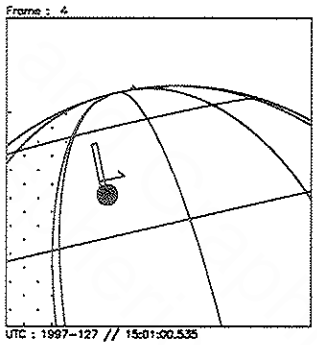
CDS	RIM	Command	Parameters	PSID
0		TARGET	(NIMS Target)	
0		CSMOS	(NIMS Csmos)	
0		SCIREC	(NIMS Scirec)	
38	000	CMDRS		(CQ)
	001	1	34UVS,D1,S,N,N,N,S,0,OFF,OFF, ON, ON,OFF,NOOVR,1,5A,45,00,39	
	008	8	34UVS,C1,F,N,N,N,S,0,OFF,OFF, ON,OFF,OFF,NOOVR,1,2C,05,00,00	

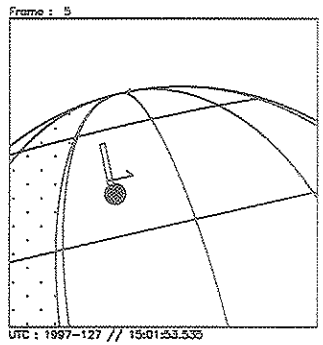


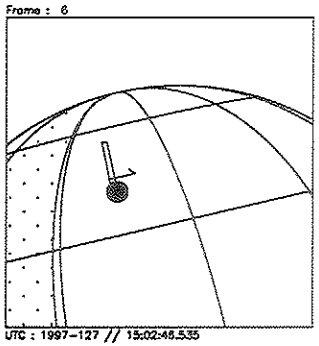


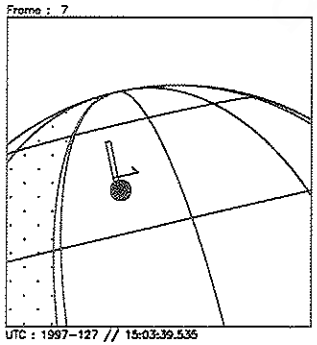


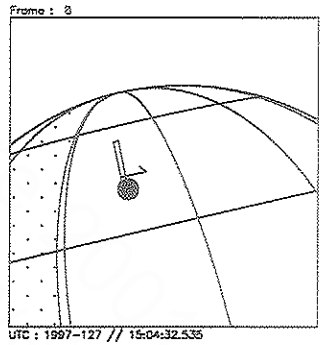












Start UTC_TIME : 1997-127 // 14:57:28.535
End UTC_TIME : 1997-127 // 15:04:33.201
Start SCLK : 1/03945304:00:0:0
Delta Time between FOV : 53.00000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : GANYMEDE
Target Cone/Clock : 100.59/ 94.10 Deg
S/C to Body Center : 30047.26 Km (11.407465 Rg)
Z-axis Pointing (Ra / Dec) : 142.40 / 14.40 Deg

Activity ID:	Orbit G8	OAPEL GULIDARK		SeqNo	01+
Title	UVS R/A W/NIMS LIGHT/DARK MATERIAL			Instrument	UVS
Requestor	UVS-SWG/J. AIELLO X30523	Team	UVS	Working Group	SWG

Time System	CDS	Load ID		Calendar Date	05/07/97 Week 19
Start	GTE-CDS 00000049:00:0	97-127/15:06:38.800		GTE-000/00:49:32.666	
End	GTE-CDS 00000042:00:0	97-127/15:13:43.466		GTE-000/00:42:28.000	
Duration	00000007:00:0	000/00:07:04.666		000/00:07:04.666	

Top Label	G8GULIDARK01+				
Bottom Label	(recorded)				
Plot Key	UVS	Type	SCI		
CDS Bytes	38	Report Options	BOTH	Scan Platform	No
CDS Source	OAP	Spin State	DUAL	DMS	No

Observation Objective

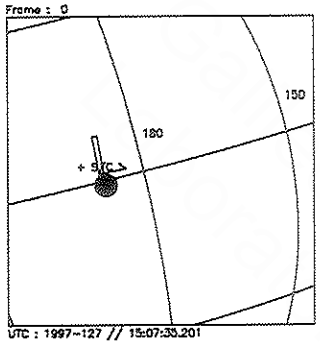
Ride-along with the NIMS light/dark material observation of Ganymede between 1600A and 3200A. Data will supplement and complement the NIMS surface property measurements.

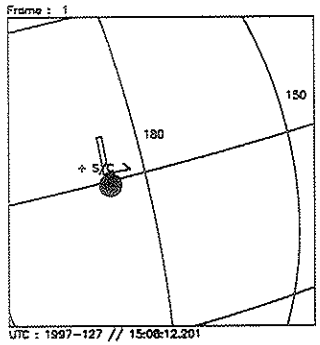
Playback of this observation will require [(cds 5:00:0)*(1008 bps) = .31 Mbits of UVS data.
At an expected compression ration of 1.6 this translates to .19 Mbits.

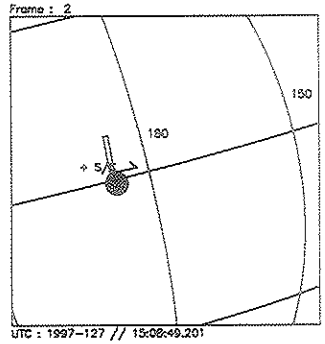
UVS configuration = 1215/1303 16-Step

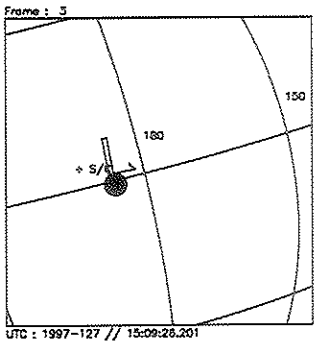
Design Detail

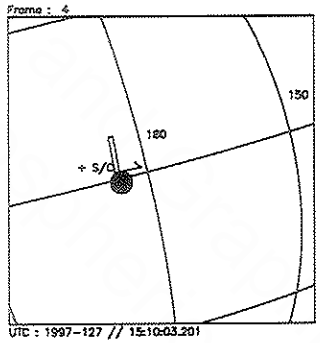
CDS	RIM	COMMAND
0		TARGET (NIMS)
0		CSMOS (NIMS)
0		SCIREC (NIMS)
38	0	CMDRS (CR)
	1	1 34UVS,D1,S,N,N,N,S,0,OFF,OFF, ON, ON,OFF,NOOVR,1,5A,45,00,39
	6	6 34UVS,C1,S,N,N,N,S,0,OFF,OFF, ON,OFF,OFF,NOOVR,1,2C,05,00,00

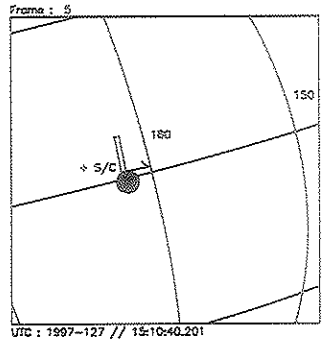


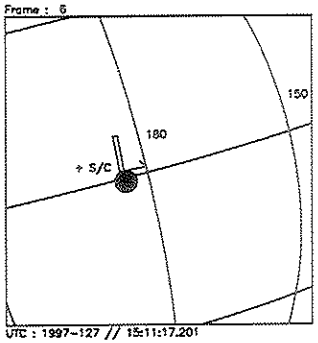


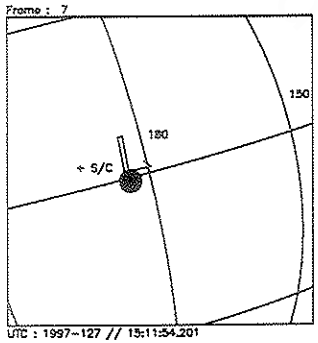


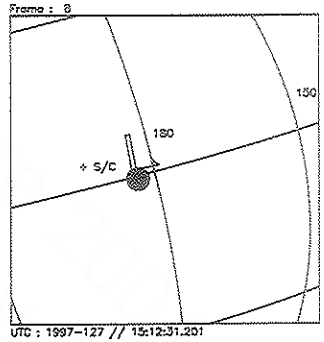












Start UTC_TIME : 1997-127 // 15:07:35.201
End UTC_TIME : 1997-127 // 15:12:38.534
Start SCLK : 1/03945314:00:0:0
Delta Time between FOV : 37.00000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : GANYMEDE
Target Cone/Clock : 99.07/ 93.33 Deg
S/C to Body Center : 25000.10 Km (9.4913069 Rg)
Z-axis Pointing (Ra / Dec) : 142.40 / 14.40 Deg

Activity ID:	Orbit G8	OAPEL EUPHAS07		SeqNo 01-	
Title	EUROPA PHASE 7 deg			**Instrument**	UVS
Requestor	UVS-SWG/J. AIELLO X37737	**Team**	UVS	**Working Group**	SWG

Time System	CDS	**Load ID**		**Calendar Date**	05/08/97 Week 19
Start	EEE-CDS 00000430:00:0	97-128/02:34:12.067		EEE-000/07:14:46.666	
End	EEE-CDS 00000425:00:0	97-128/02:39:15.400		EEE-000/07:09:43.333	
Duration	00000005:00:0	000/00:05:03.333		000/00:05:03.333	

Top Label	G8EUPHAS0701-				
Bottom Label	REAL-TIME				
Plot Key	UVS	**Type**	SCI		
CDS Bytes	130	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	OAP	**Spin State**	DUAL	**DMS**	No

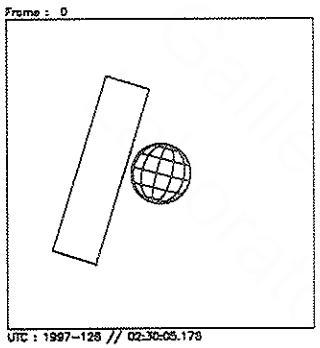
Observation Objective

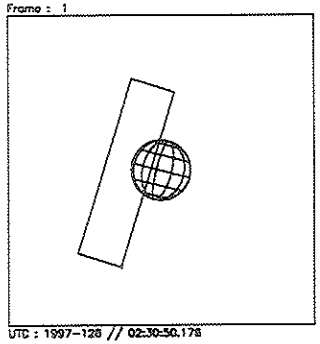
Observe Europa between 1600 and 3200 angstroms. Supplements observations at phase angles not obtainable from Earth.

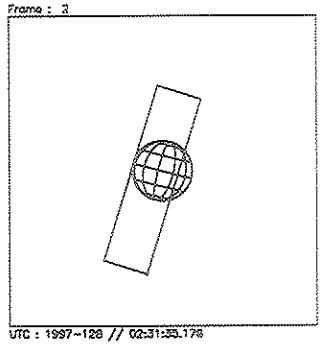
UVS Configuration = F/F Full Scans

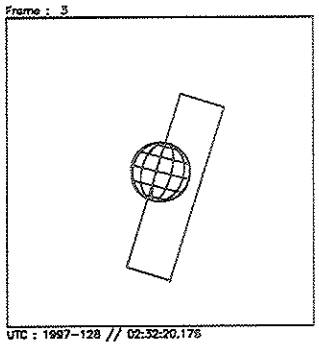
Design Detail

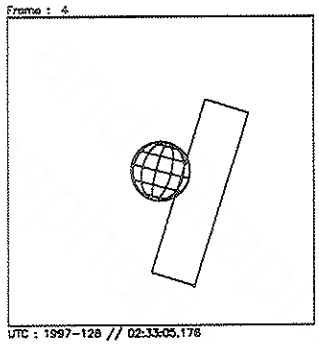
```
CDS     RIM     COMMAND
---     ---     -------
36      004     Target
28      003+    UVFLUSH,DISCARD,UVS
28      003     CMDRS (CR)
        004     1   34UVS,07, SCAN,N,N,N,S,0, ON,OFF,OFF, ON,OFF,NOOVR,1,00,9C,00,00;
        010     7   34UVS,C1,FIXED,N,N,N,S,0,OFF,OFF, ON,OFF,OFF,NOOVR,1,2C,05,00,00;
28      009+    UVFLUSH,PACKET,UVS
```

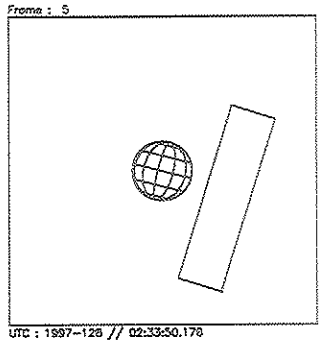


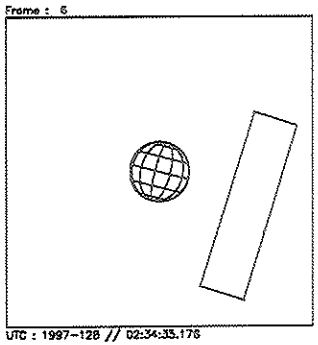


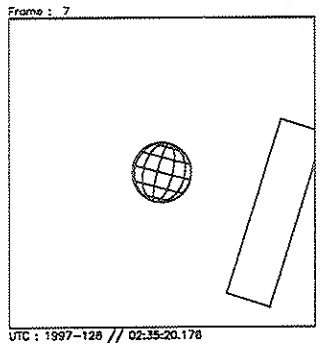


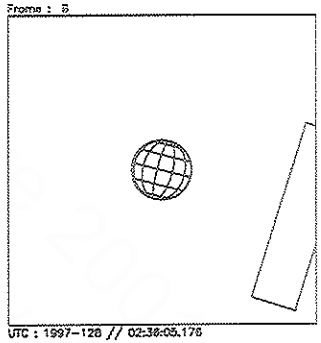












Start UTC_TIME : 1997-128 // 02:30:05.176
End UTC_TIME : 1997-128 // 02:36:09.176
Start SCLK : 1/03945989:00:0:0
Delta Time between FOV : 45.00000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : EUROPA
Target Cone/Clock : 160.75/ 93.43 Deg
S/C to Body Center : 1365913. Km (872.78770 Re)
Z-axis Pointing (Ra / Dec) : 142.40 / 14.40 Deg