Activity ID:	Orbit G7	OAPEL TUCTORUS	SeqNo 02-
Title	UVS CALLISTO NEUTRAL TORUS G7 INBOUND		Instrument UVS
Requestor	UVS-MWG/S.STEPHENS	Team UVS	Working Group MWG

Time System	CDS	Load ID	G7A	Calendar Date	03/30/97 Week 13

Start	JEE-CDS 00006750:00:0	97-089/17:18:48.400	JEE-004/17:45:00.000
End	JEE-CDS 00005786:00:0	97-090/09:33:31.067	JEE-004/01:30:17.333
Duration	00000964:00:0	000/16:14:42.667	000/16:14:42.667

Top Label	G7TUCTORUS02-				
Bottom Label	(UVS RTS Callisto Torus)				
Plot Key	UVS	Type	SCI		
CDS Bytes	363	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	No

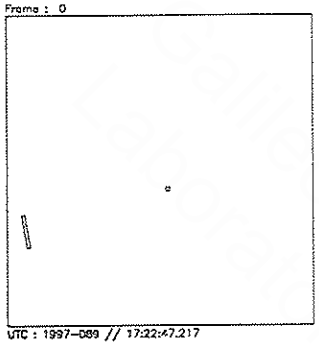
Observation Objective

```
UVS CALLISTO NEUTRAL TORUS MIDNIGHT ANSA PROFILE 2, G7 INBOUND:
  From: 28.57 Rj (outside Callisto ansa) at cone > 90 (ansa at 25.64
Rj)
  To:   23.49 Rj (inside Callisto ansa) at fixed cone
  Data rate: Instrument states last 120 RIMS; thus, 2.43 bps UVS
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
  UVS deselected; thus, 120-RIM UVFLUSHes needed to PACKET UVS, after
initial DISCRD
WAVELENGTHS (Angstroms):
  Emission lines: UVS (H2 1216, neutral O 1304)
  2POSN-16STEP G/G MINISCAN (UVS):  G 1202.8-1225.9 (CTR 1215.1, STEP
54) [EVEN FRAMES],
                                    G 1290.5-1313.5 (CTR 1302.8, STEP
111) [ODD FRAMES]
  Strategy for MINISCANS:   Alternate 30-RIM MINISCANs and 30-RIM
HVOFFs for PWS quiet
NOTE: Callisto in UVS field-of-view at observation mid-point (i.e.,
```

Design Detail

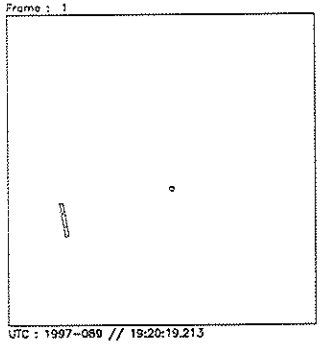
```
PSID     RIM:mf   CDS PA
-----------------------------------------------------------------------------------------
384BA    0        0   COMMENT [UVS RIM 0]
61BA     1        37  LOOPER [LOOP PERIOD 60, NUM LOOPS 22]
157BA    3        38  CMDRS (10+14*2) [PLAN DUR 31, EST UVS CMDS 2]
349BA    3:69     28  UVFLUSH [6UVRT, DISCRD, UVS]
165BA    4        36  TARGET [CONE 98.67, CLOCK 95.07, POSITION SLEW ALLOCATION 4]
         4            34UVS,D1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,5A,45,00,39 [16STEP G/G]
         34           34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
349BB    122:69   224 UVFLUSH (28*8) [6UVRT, PACKET, UVS]
...BI                ... [REPEAT 7 ADDITIONAL TIMES]
```

Frame : 0



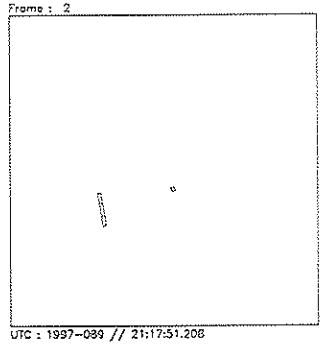
UTC : 1997-089 // 17:22:47.217
SCLK: 1/03891329:00:0:0

Frame : 1



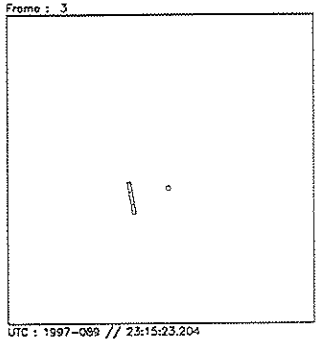
UTC : 1997-089 // 19:20:19.213
SCLK: 1/03891445:22:0:0

Frame : 2



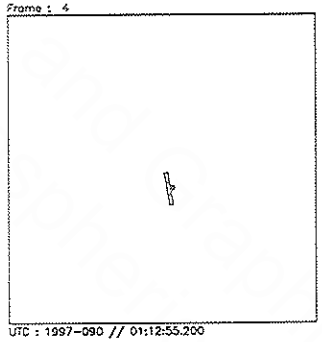
UTC : 1997-089 // 21:17:51.208
SCLK: 1/03891561:44:0:0

Frame : 3



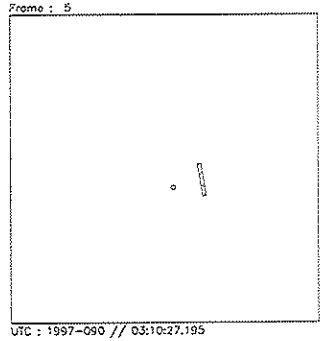
UTC : 1997-089 // 23:15:23.204
SCLK: 1/03891677:66:0:0

Frame : 4



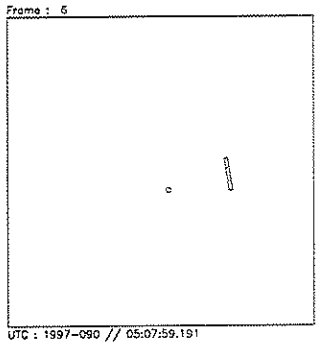
UTC : 1997-090 // 01:12:55.200
SCLK: 1/03891793:88:0:0

Frame : 5



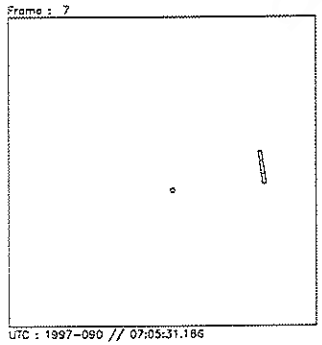
UTC : 1997-090 // 03:10:27.195
SCLK: 1/03891910:19:0:0

Frame : 6



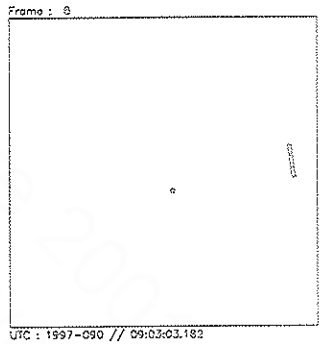
UTC : 1997-090 // 05:07:59.191
SCLK: 1/03892026:41:0:0

Frame : 7



UTC : 1997-090 // 07:05:31.186
SCLK: 1/03892142:63:0:0

Frame : 8



UTC : 1997-090 // 09:03:03.182
SCLK: 1/03892258:85:0:0

Start UTC_TIME : 1997-089 // 17:22:47.217
No End Time :
Start SCLK : 1/03891329:00:0:0

Target Body : CALLISTO
Target Cone/Clock : 95.05/ 95.20 Deg
S/C to Body Center : 2742416. Km (1141.2466 Rc)
Z-axis Pointing (Ra / Dec) : 136.90 / 15.10 Deg

Activity ID: Orbit G7 **OAPEL** TUGTORUS **SeqNo** 02-

Title UVS GANYMEDE NEUTRAL TORUS G7 INBOUND **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7A **Calendar Date** 03/31/97 **Week** 13

Start	JEE-CDS 00005786:00:0	97-090/09:33:31.067	JEE-004/01:30:17.333
End	JEE-CDS 00004706:00:0	97-091/03:45:31.067	JEE-003/07:18:17.333
Duration	00001080:00:0	000/18:12:00.000	000/18:12:00.000

Top Label G7TUGTORUS02-

Bottom Label (UVS RTS Ganymede Torus)

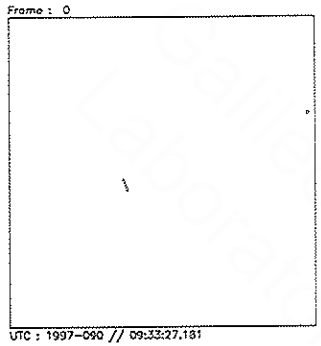
Plot Key	UVS	**Type**	SCI		
CDS Bytes	399	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	PA	**Spin State**	DUAL	**DMS**	No

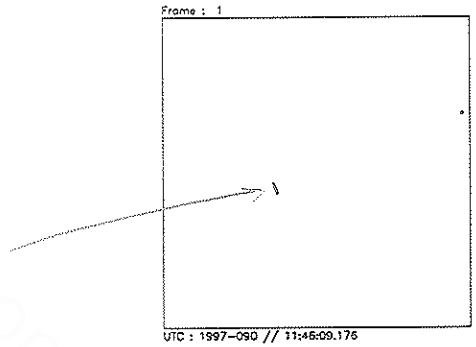
Observation Objective

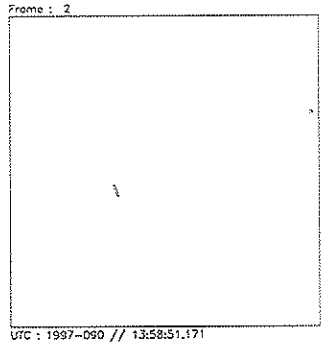
```
UVS GANYMEDE NEUTRAL TORUS MIDNIGHT ANSA PROFILE 2, G7 INBOUND:
  From: 17.84 Rj (outside Ganymede ansa) at cone 90 (ansa at 14.97
Rj)
  To:   12.19 Rj (inside Ganymede ansa) at cone 90 (OPNAV window from
16.03 to 15.40 Rj)
  Data rate: Instrument states usually last 120 RIMS; thus, 2.43 bps
UVS
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
  UVS deselected; thus, 120-RIM UVFLUSHes needed to PACKET UVS
WAVELENGTHS (Angstroms):
  Emission lines: UVS (H2 1216, neutral O 1304)
  2POSN-16STEP G/G MINISCAN (UVS):  G 1202.8-1225.9 (CTR 1215.1, STEP
54) [EVEN FRAMES],
                                    G 1290.5-1313.5 (CTR 1302.8, STEP
111) [ODD FRAMES]
  Strategy for MINISCANS:   Alternate 30-RIM MINISCANs and 30-RIM
HVOFFs for PWS quiet,
```

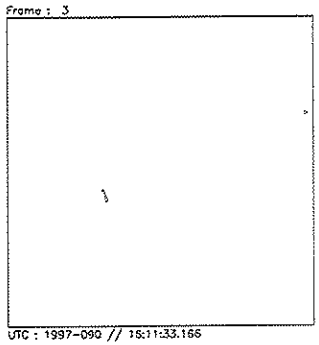
Design Detail

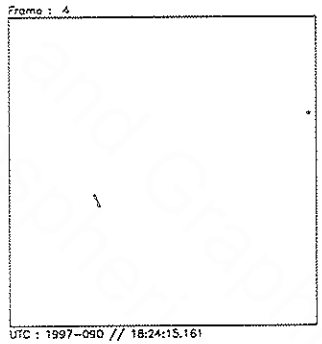
```
PSID     RIM:mf   CDS PA
-----------------------------------------------------------------------
384BB    -1       0   COMMENT [UVS RIM 0]
165BB    0        36  TARGET [CONE 90.00, CLOCK 95.40, POSITION SLEW ALLOCATION 1]
         0            34UVS,D1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,5A,45,00,39 [16STEP G/G]
         30           34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
349BK    118:69   28  UVFLUSH [6UVRT, PACKET, UVS]
349BL    238:69   28  UVFLUSH [6UVRT, PACKET, UVS]
349BM    358:69   28  UVFLUSH [6UVRT, PACKET, UVS]
61BB     478      37  LOOPER [LOOP PERIOD 60, NUM LOOPS 10]
157BB    479      38  CMDRS (10+14*2) [PLAN DUR 31, EST UVS CMDS 2]
349BN    479:69   28  UVFLUSH [6UVRT, DISCRD, UVS]
165BR    480      36  TARGET [CONE 90.00, CLOCK 95.40, POSITION SLEW ALLOCATION 4]
         480          34UVS,D1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,5A,45,00,39 [16STEP G/G]
         510          34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
349BO    598:69   140 UVFLUSH (28*5) [6UVRT, PACKET, UVS]
...BS                ... [REPEAT 4 ADDITIONAL TIMES]
```

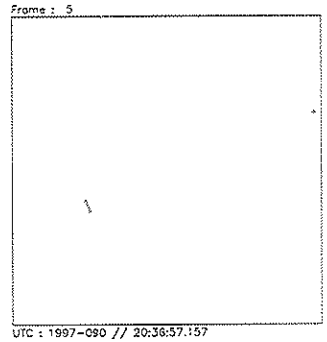


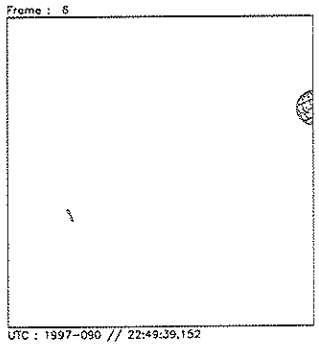


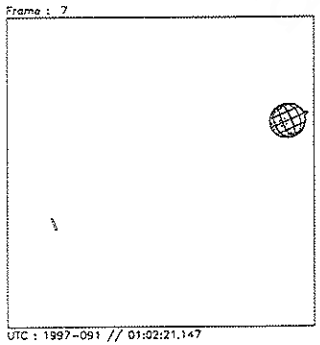


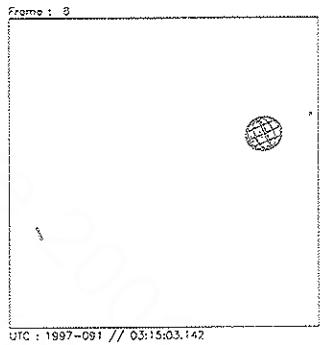












Start UTC_TIME : 1997-090 // 09:33:27.181
No End Time :
Start SCLK : 1/03892289:00:0:0

Target Body : GANYMEDE
Target Cone/Clock : 77.51/ 95.78 Deg
S/C to Body Center : 211463:. Km (802.82445 Rg)
Z-axis Pointing (Ra / Dec) : 136.90 / 15.10 Deg

Activity ID: Orbit G7 **OAPEL** TUG7MANS **SeqNo** 01-

Title UVS/EUV MDNT ANSA MAP 1, LO RATE G7 INBD **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7A **Calendar Date** 04/01/97 **Week** 14

Start	JEE-CDS 00004157:00:0	97-091/13:00:37.067	JEE-002/22:03:11.333
End	JEE-CDS 00003613:00:0	97-091/22:10:39.734	JEE-002/12:53:08.666
Duration	00000544:00:0	000/09:10:02.667	000/09:10:02.667

Top Label G7TUG7MANS01-

Bottom Label (UVS/EUV RTS Torus)

Plot Key	UVS	**Type**	SCI		
CDS Bytes	391	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	PA	**Spin State**	DUAL	**DMS**	No

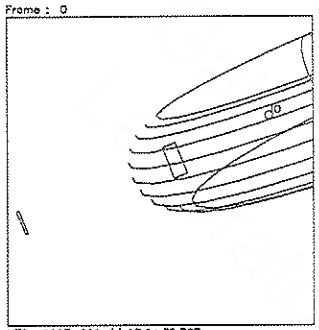
Observation Objective

UVS/EUV IO TORUS MIDNIGHT ANSA MAP 1, LOW RATE, G7 INBOUND:
From: 9.15 Rj (Europa) at cone 90 (ribbon at 5.76 Rj, Sys III W Long 283)
To: 6.08 Rj at cone 90
Data rate: Instrument states last 60 RIMS; thus, 4.87 bps UVS, 4.87 bps EUV
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
UVS/EUV deselected; thus, 60-RIM UVFLUSHes needed to PACKET BOTH, after initial DISCRD
WAVELENGTHS (Angstroms):
Emission lines: UVS (S+ 1259, S+ 4070), EUV (S++ 685, S+ 765, O+ 834)
2POSN-22STEP N/G MINISCAN (UVS): N 4040.9-4098.7 (CTR 4071.2, STEP 436) [EVEN FRAMES],
G 1239.8-1272.1 (CTR 1256.7, STEP 81) [ODD FRAMES]
2POSN-1STEP N/N MINISCAN (UVS): N 4049.2 (STEP 428) [EVEN

Design Detail

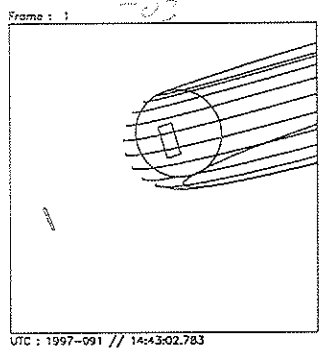
```
PSID     RIM:mf   CDS PA
-----------------------------------------------------------------------------------------
384BD    0        0   COMMENT [UVS RIM 0]
61BC     2        37  LOOPER [LOOP PERIOD 120, NUM LOOPS 5]
157BC    3        38  CMDRS (10+14*2) [PLAN DUR 61, EST UVS CMDS 2]
349BT    3:69     28  UVFLUSH [6UVRT, DISCRD, BOTH]
165BC    4        36  TARGET [CONE 90.00, CLOCK 95.30, POSITION SLEW ALLOCATION 4]
         4            34UVS,C1,F,N,N,N,S,0,OFF,ON,OFF,ON,OFF,NO,1,D8,06,00,08 [1STEP N/N]
349BU    62:69    28  UVFLUSH [6UVRT, PACKET, BOTH]
         64           34UVS,D3,F,N,N,N,S,0,OFF,ON,ON,ON,OFF,NO,1,D5,4E,05,63 [22STEP N/G]
349BV    122:69   28  UVFLUSH [6UVRT, PACKET, BOTH]
349BW    182:69   28  UVFLUSH [6UVRT, PACKET, BOTH]
349BX    242:69   28  UVFLUSH [6UVRT, PACKET, BOTH]
349BY    302:69   28  UVFLUSH [6UVRT, PACKET, BOTH]
349BZ    362:69   28  UVFLUSH [6UVRT, PACKET, BOTH]
349MA    422:69   28  UVFLUSH [6UVRT, PACKET, BOTH]
349MB    482:69   28  UVFLUSH [6UVRT, PACKET, BOTH]
349MC    542:69   28  UVFLUSH [6UVRT, PACKET, BOTH]
```

Frame : 0



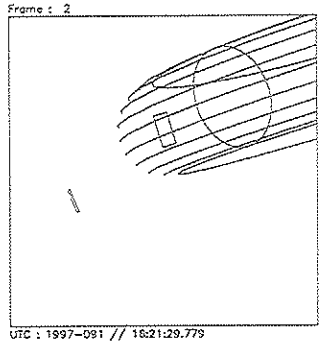
UTC : 1997-091 // 13:04:35.787
SCLK: 1/03893922:00:0:0

Frame : 1



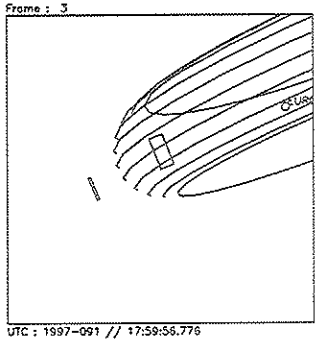
UTC : 1997-091 // 14:43:02.783
SCLK: 1/03894019:33:5:0

Frame : 2



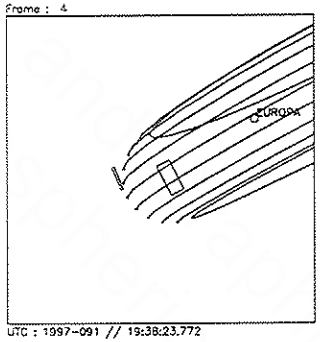
UTC : 1997-091 // 16:21:29.779
SCLK: 1/03894116:67:0:0

Frame : 3



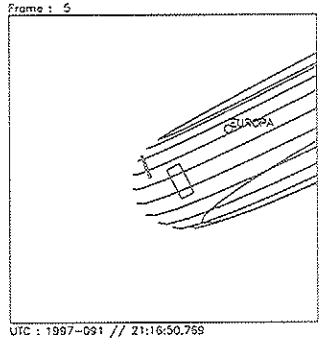
UTC : 1997-091 // 17:59:56.776
SCLK: 1/03894214:09:5:0

Frame : 4



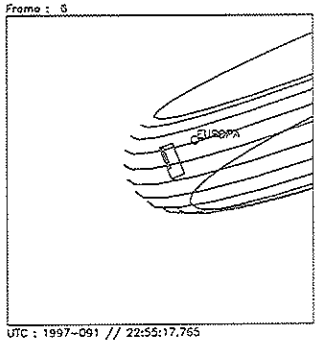
UTC : 1997-091 // 19:38:23.772
SCLK: 1/03894311:43:0:0

Frame : 5



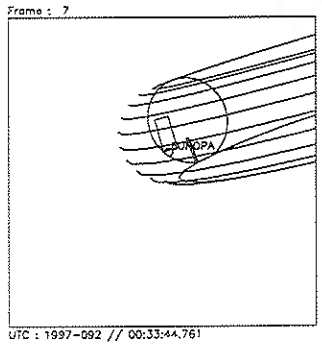
UTC : 1997-091 // 21:16:50.769
SCLK: 1/03894408:76:5:0

Frame : 6



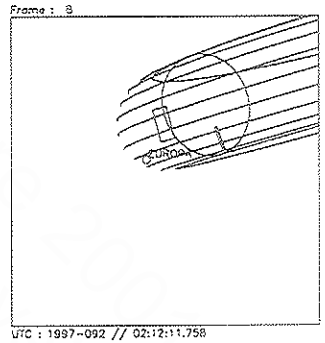
UTC : 1997-091 // 22:55:17.765
SCLK: 1/03894506:19:0:0

Frame : 7



UTC : 1997-092 // 00:33:44.761
SCLK: 1/03894603:52:5:0

Frame : 8

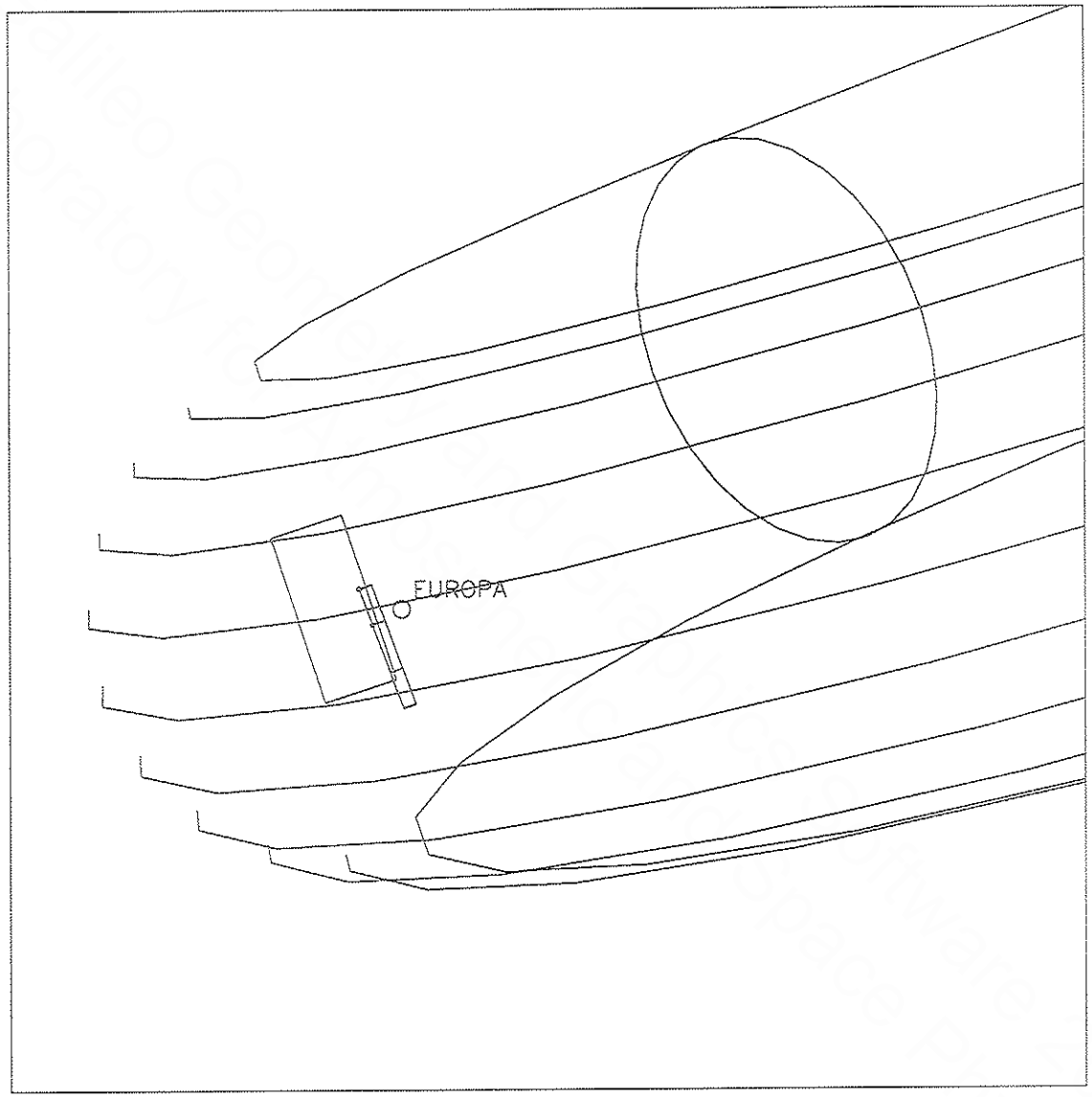


UTC : 1997-092 // 02:12:11.758
SCLK: 1/03894700:86:0:0

Start UTC_TIME : 1997-091 // 13:04:35.787
No End Time :
Start SCLK : 1/03893922:00:0:0

Target Body : JUPITER
Target Cone/Clock : 74.46/ 96.06 Deg
S/C to Body Center : 2435614. Km (34.068348 Rj)
Z-axis Pointing (Ra / Dec) : 136.90 / 15.10 Deg

Wed Mar 12 17:48:11 1997



Start UTC_TIME : 1997-091 // 23:45:38.430
No End Time :
Start SCLK : 1/03894556:00:0:0

Target Body : JUPITER
Target Cone/Clock : 79.55/ 95.89 Deg
S/C to Body Center : 2175894. Km (30.435484 Rj)
Z-axis Pointing (Ra / Dec) : 136.90 / 15.10 Deg

Activity ID: Orbit G7 **OAPEL** TUG7MANS **SeqNo** 02-

Title UVS/EUV MDNT ANSA MAP 2, HI RATE G7 INBD **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7A **Calendar Date** 04/01/97 **Week** 14

Start	JEE-CDS 00003613:00:0	97-091/22:10:39.734	JEE-002/12:53:08.666	30.99 Rj
End	JEE-CDS 00003493:00:0	97-092/00:11:59.734	JEE-002/10:51:48.666	30.2 Rj
Duration	00000120:00:0	000/02:01:20.000	000/02:01:20.000	

Top Label G7TUG7MANS02-

Bottom Label (UVS/EUV RTS Torus)

Plot Key	UVS	**Type**	SCI		
CDS Bytes	164	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	PA	**Spin State**	DUAL	**DMS**	No

Observation Objective

UVS/EUV IO TORUS MIDNIGHT ANSA MAP 2, HIGH RATE (RIBBON), G7 INBOUND:
From: 6.08 Rj at cone 90 (ribbon at 5.76 Rj, Sys III W Long 283)
To: 5.39 Rj at cone 90
Data rate: Instrument states last 30 RIMS; thus, 9.73 bps UVS, 9.73 bps EUV
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
UVS/EUV deselected; thus, 30-RIM UVFLUSHes needed to PACKET BOTH
WAVELENGTHS (Angstroms):
Emission lines: UVS (S+ 1259, O+ 3728, S+ 4070), EUV (S++ 685, S+ 765, O+ 834)
2POSN-22STEP N/G MINISCAN (UVS): N 4040.9-4098.7 (CTR 4071.2, STEP 436) [EVEN FRAMES],
G 1239.8-1272.1 (CTR 1256.7, STEP 81) [ODD FRAMES]
2POSN-22STEP N/N MINISCAN (UVS): N 3700.0-3759.3 (CTR 3731.1, STEP 314) [EVEN FRAMES],
N 4040.9-4098.7 (CTR 4071.2, STEP

Design Detail

PSID	RIM:mf	CDS	PA
384BE	0	0	COMMENT [UVS RIM 0]
349MD	28:69	28	UVFLUSH [6UVRT, PACKET, BOTH]
157BE	29	52	CMDRS (10+14*3) [PLAN DUR 61, EST UVS CMDS 3]
	30		34UVS,D3,F,N,N,N,S,0,OFF,ON,OFF,ON,OFF,NO,1,5B,4E,00,7A [22STEP N/N]
349ME	58:69	28	UVFLUSH [6UVRT, PACKET, BOTH]
	60		34UVS,D3,F,N,N,N,S,0,OFF,ON,ON,ON,OFF,NO,1,D5,4E,05,63 [22STEP N/G]
349MF	88:69	28	UVFLUSH [6UVRT, PACKET, BOTH]
	90		34UVS,D3,F,N,N,N,S,0,OFF,ON,OFF,ON,OFF,NO,1,5B,4E,00,7A [22STEP N/N]
349MG	118:69	28	UVFLUSH [6UVRT, PACKET, BOTH]

Activity ID:	Orbit G7	OAPEL TUG7MANS	SeqNo 03-
Title	UVS/EUV MDNT ANSA MAP 3, LO RATE G7 INBD		Instrument UVS
Requestor	UVS-MWG/S.STEPHENS	Team UVS	Working Group MWG

Time System	CDS	Load ID	G7A	Calendar Date	04/02/97 Week 14

Start	JEE-CDS 00003493:00:0	97-092/00:11:59.734	JEE-002/10:51:48.666	30.2 Rj
End	JEE-CDS 00003373:00:0	97-092/02:13:19.734	JEE-002/08:50:28.666	29.97 Rj
Duration	00000120:00:0	000/02:01:20.000	000/02:01:20.000	

Top Label	G7TUG7MANS03-				
Bottom Label	(UVS/EUV RTS Torus)				
Plot Key	UVS	Type	SCI		
CDS Bytes	131	Report Options	BOTH	Scan Platform	Yes
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

UVS/EUV IO TORUS MIDNIGHT ANSA MAP 3, LOW RATE, G7 INBOUND:
From: 5.39 Rj at cone 90 (ribbon at 5.76 Rj, Sys III W Long 283)
To: 4.70 Rj (inside ribbon) at cone 90
Data rate: Instrument states last 60 RIMS; thus, 4.87 bps UVS, 4.87 bps EUV
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
UVS/EUV deselected; thus, 60-RIM UVFLUSHes needed to PACKET BOTH
WAVELENGTHS (Angstroms):
Emission lines: UVS (S+ 1259, S+ 4070), EUV (S++ 685, S+ 765, O+ 834)
2POSN-22STEP N/G MINISCAN (UVS): N 4040.9-4098.7 (CTR 4071.2, STEP 436) [EVEN FRAMES],
G 1239.8-1272.1 (CTR 1256.7, STEP 81) [ODD FRAMES]
2POSN-1STEP N/N MINISCAN (UVS): N 4049.2 (STEP 428) [EVEN FRAMES],
N 4071.2 (STEP 436) [ODD FRAMES]

Design Detail

PSID	RIM:mf	CDS	PA
384BF	-2	0	COMMENT [UVS RIM 0]
61BD	-2	37	LOOPER [LOOP PERIOD 120, NUM LOOPS 4]
157BF	-1	38	CMDRS (10+14*2) [PLAN DUR 61, EST UVS CMDS 2]
	0		34UVS,C1,F,N,N,N,S,0,OFF,ON,OFF,ON,OFF,NO,1,D8,06,00,08 [1STEP N/N]
349MH	58:69	28	UVFLUSH [6UVRT, PACKET, BOTH]
	60		34UVS,D3,F,N,N,N,S,0,OFF,ON,ON,ON,OFF,NO,1,D5,4E,05,63 [22STEP N/G]
349MI	118:69	28	UVFLUSH [6UVRT, PACKET, BOTH]

Activity ID: Orbit G7 **OAPEL** TUG7MPRO **SeqNo** 01-

Title UVS/EUV MDNT ANSA PROFILE 1, G7 INBD **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7A **Calendar Date** 04/02/97 **Week** 14

Start	JEE-CDS 00003373:00:0	97-092/02:13:19.734	JEE-002/08:50:28.666
End	JEE-CDS 00003013:00:0	97-092/08:17:19.734	JEE-002/02:46:28.666
Duration	00000360:00:0	000/06:04:00.000	000/06:04:00.000

Top Label G7TUG7MPRO01-

Bottom Label (UVS/EUV RTS Torus)

Plot Key	UVS	**Type**	SCI		
CDS Bytes	228	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	PA	**Spin State**	DUAL	**DMS**	No

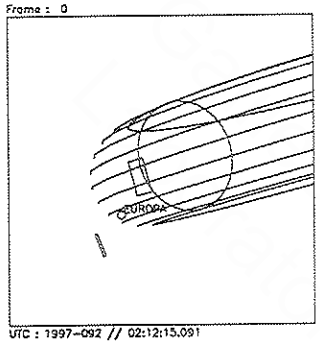
Observation Objective

UVS/EUV IO TORUS MIDNIGHT ANSA RADIAL PROFILE 1, G7 INBOUND:
From: 6.91 Rj (outside ribbon) at cone > 90 (ribbon at 5.76 Rj, Sys III W Long 142)
To: 4.66 Rj (inside ribbon) at fixed cone
Data rate: Instrument states usually last 60 RIMS; thus, 4.87 bps UVS, 4.87 bps EUV
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
UVS/EUV deselected; thus, 60-RIM UVFLUSHes needed to PACKET BOTH
WAVELENGTHS (Angstroms):
Emission lines: UVS (S+ 1259, S+ 4070), EUV (S++ 685, S+ 765, O+ 834)
2POSN-22STEP N/G MINISCAN (UVS): N 4040.9-4098.7 (CTR 4071.2, STEP 436) [EVEN FRAMES],
G 1239.8-1272.1 (CTR 1256.7, STEP 81) [ODD FRAMES]
2POSN-1STEP N/N MINISCAN (UVS): N 4049.2 (STEP 428) [EVEN FRAMES],

Design Detail

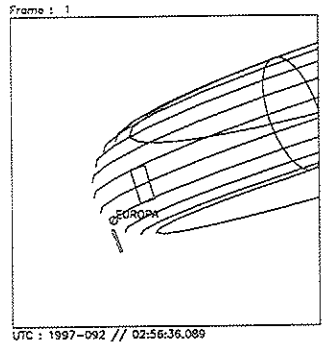
PSID	RIM:mf	CDS	PA
384BG	-1	0	COMMENT [UVS RIM 0]
165BD	0	36	TARGET [CONE 94.38, CLOCK 94.60, POSITION SLEW ALLOCATION 1]
349MK	58:69	28	UVFLUSH [6UVRT, PACKET, BOTH]
349ML	118:69	28	UVFLUSH [6UVRT, PACKET, BOTH]
349MM	178:69	28	UVFLUSH [6UVRT, PACKET, BOTH]
349MN	238:69	28	UVFLUSH [6UVRT, PACKET, BOTH]
349MO	298:69	28	UVFLUSH [6UVRT, PACKET, BOTH]
157BH	349	24	CMDRS (10+14*1) [PLAN DUR 1, EST UVS CMDS 1]
	350		34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
349MP	358:69	28	UVFLUSH [6UVRT, PACKET, BOTH]

Frame : 0



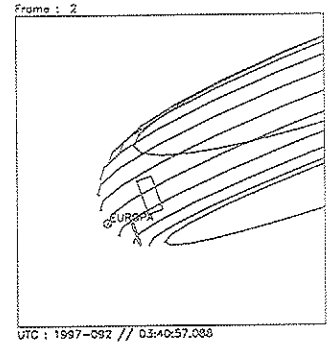
UTC : 1997-092 // 02:12:15.091
SCLK: 1/03894701:00:0:0

Frame : 1



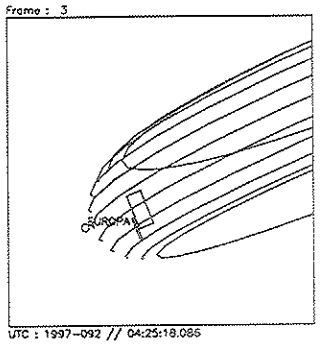
UTC : 1997-092 // 02:56:36.089
SCLK: 1/03894744:78:5:0

Frame : 2



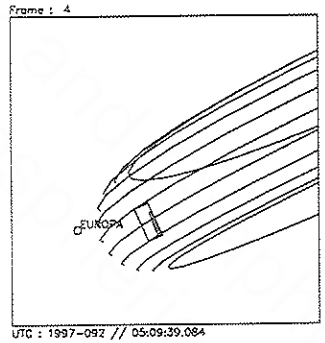
UTC : 1997-092 // 03:40:57.088
SCLK: 1/03894788:66:0:0

Frame : 3



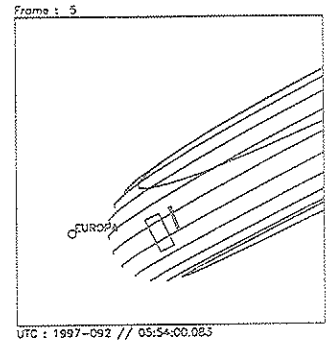
UTC : 1997-092 // 04:25:18.086
SCLK: 1/03894832:53:5:0

Frame : 4



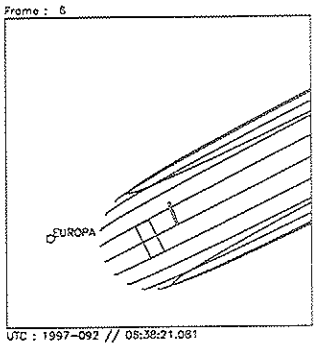
UTC : 1997-092 // 05:09:39.084
SCLK: 1/03894875:41:0:0

Frame : 5



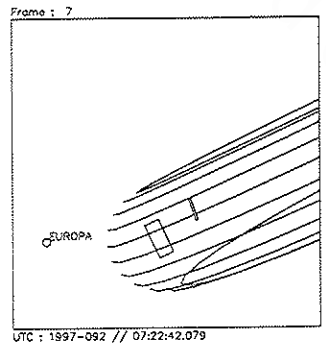
UTC : 1997-092 // 05:54:00.083
SCLK: 1/03894920:28:5:0

Frame : 6



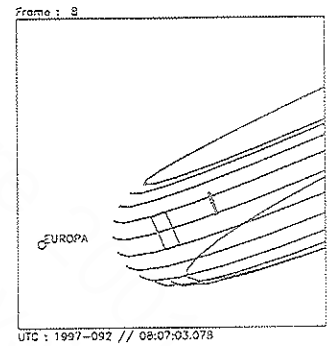
UTC : 1997-092 // 06:38:21.081
SCLK: 1/03894964:16:0:0

Frame : 7



UTC : 1997-092 // 07:22:42.079
SCLK: 1/03895008:03:5:0

Frame : 8



UTC : 1997-092 // 08:07:03.078
SCLK: 1/03895051:82:0:0

Start UTC_TIME : 1997-092 // 02:12:15.091
No End Time :
Start SCLK : 1/03894701:00:0:0

Target Body : JUPITER
Target Cone/Clock : 80.89/ 95.84 Deg
S/C to Body Center : 2114021. Km (29.570033 Rj)
Z-axis Pointing (Ra / Dec) : 136.90 / 15.10 Deg

ACTIVITY ID: G7JUG7AURA01-

START TIME: 97-092/12:28:05.067

Activity ID: **Orbit** G7 **OAPEL** JUG7AURA **SeqNo** 01-

Title UVS/EUV AURORA MAP 1, LO RATE G7 INBD **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7A **Calendar Date** 04/02/97 **Week** 14

Start	JEE-CDS 00002765:00:0	97-092/12:28:05.067	JEE-001/22:35:43.333
End	JEE-CDS 00002723:00:0	97-092/13:10:33.067	JEE-001/21:53:15.333
Duration	00000042:00:0	000/00:42:28.000	000/00:42:28.000

Top Label G7JUG7AURA01-

Bottom Label (UVS/EUV RTS Aurora)

Plot Key UVS **Type** SCI

CDS Bytes 162 **Report Options** BOTH **Scan Platform** Yes

CDS Source PA **Spin State** DUAL **DMS** No

Observation Objective

```
UVS/EUV JUPITER AURORA MAP 1 (SKY BACKGROUND FOR DARKSIDE EQUATOR),
LO RATE, G7 INBOUND:
  From: 1.2 Rj (outside Jupiter) at cone 90, TARGETing darkside
Jupiter sky background
  To:   0.8 Rj at cone 90
  Data rate: Instrument states last 40 RIMS; thus, 7.30 bps UVS, 7.30
bps EUV
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
  UVS/EUV deselected; thus, 40-RIM UVFLUSH needed to PACKET BOTH,
after initial DISCRD
WAVELENGTHS (Angstroms):
  Emission lines: UVS (H2 1253)
  2POSN-88STEP G/G (UVS):   G 1131.5-1265.9 (CTR 1199.7, STEP 44)
[EVEN FRAMES],
                            G 1199.7-1333.4 (CTR 1267.5, STEP 88)
[ODD FRAMES]
  Strategy for MINISCANS:   Use 2POSN-88STEP G/G for equatorial
```

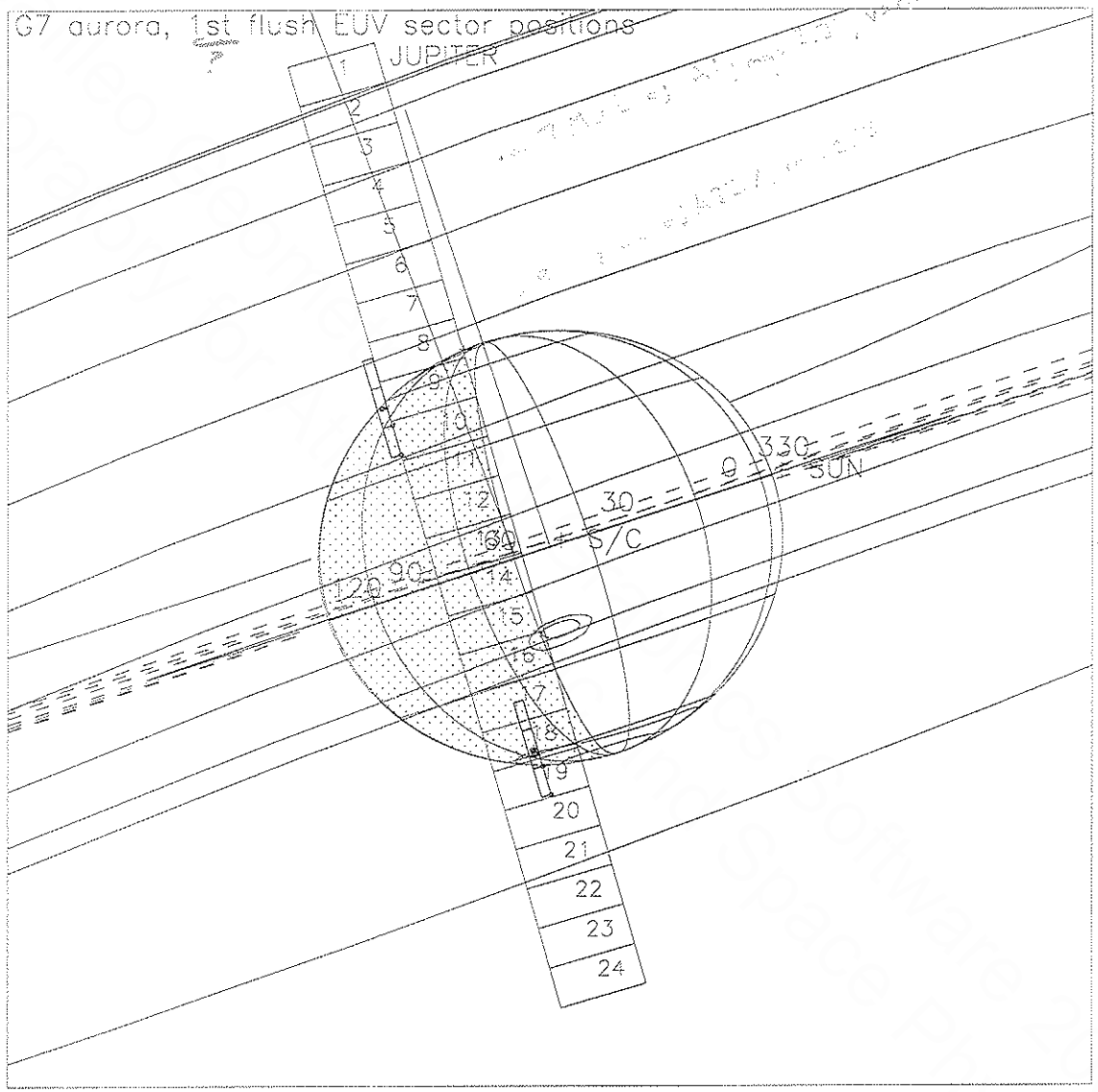
Design Detail

```
PSID     RIM:mf   CDS PA
-----------------------------------------------------------------------------------------
384BI    0        0   COMMENT [UVS RIM 0]
157BI    1        80  CMDRS (10+14*5) [PLAN DUR 133, EST UVS CMDS 5]
349MS    1:69     28  UVFLUSH [6UVRT, DISCRD, BOTH]
165BE    2        36  TARGET [CONE 90.00, CLOCK 93.50, POSITION SLEW ALLOCATION 2]
         2            34UVS,DF,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,2C,7D,00,2C [88STEP G/G]
349MT    30:69    28  UVFLUSH [6UVRT, PACKET, BOTH]
         32           34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
```

1997-092/14:43:30 Flash 3895444

1997-092/15:47:12 Flash 3895507

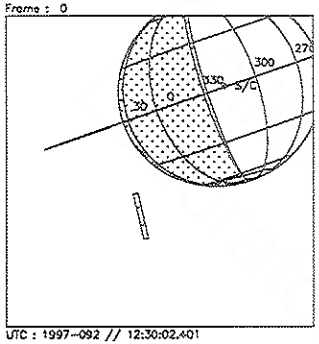
Tue Dec 8 22:16:33 1998



Start UTC_TIME : 1997-092 // 14:43:30.546
End UTC_TIME : 1997-092 // 15:47:12.543
Start SCLK : 1/03895444:00:0:0
Delta Time between FOV : 300.0000
FOVs : F Channel(0.1x0.4), N/G Channel(0.1x1.0)

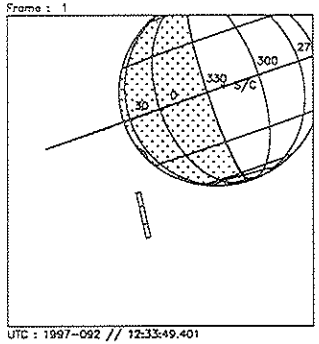
Target Body : JUPITER
Target Ra/Dec : 221.13/-17.81 Deg
S/C to Body Center : 1781563. Km (24.919749 Rj)
Z-axis Pointing (Ra / Dec) : 136.89 / 15.08 Deg

Frame : 0



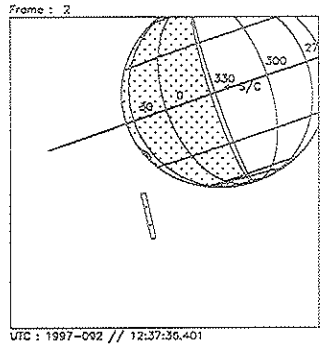
UTC : 1997-092 // 12:30:02.401
SCLK: 1/03895312:00:0:0

Frame : 1



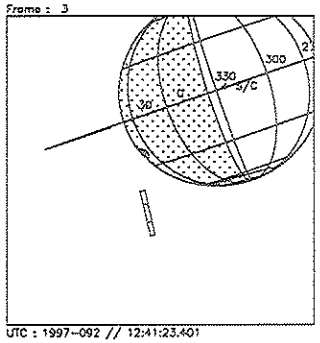
UTC : 1997-092 // 12:33:49.401
SCLK: 1/03895315:87:5:0

Frame : 2



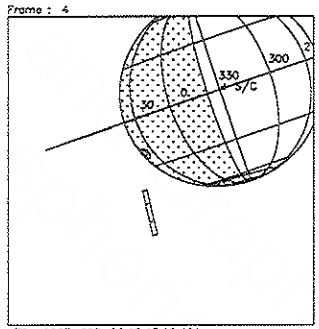
UTC : 1997-092 // 12:37:36.401
SCLK: 1/03895319:44:0:0

Frame : 3



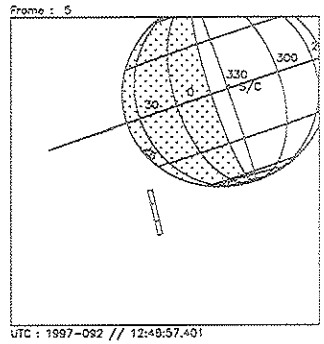
UTC : 1997-092 // 12:41:23.401
SCLK: 1/03895323:20:5:0

Frame : 4



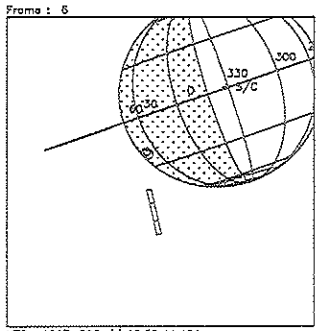
UTC : 1997-092 // 12:45:10.401
SCLK: 1/03895328:88:0:0

Frame : 5



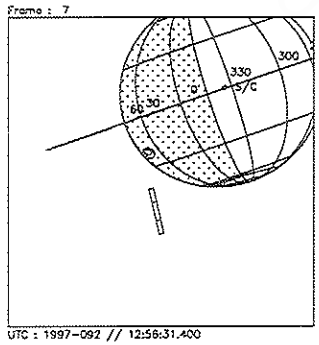
UTC : 1997-092 // 12:48:57.401
SCLK: 1/03895330:64:5:0

Frame : 6



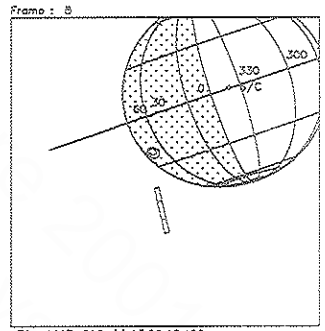
UTC : 1997-092 // 12:52:44.401
SCLK: 1/03895334:41:0:0

Frame : 7



UTC : 1997-092 // 12:56:31.400
SCLK: 1/03895338:17:5:0

Frame : 8



UTC : 1997-092 // 13:00:18.400
SCLK: 1/03895341:85:0:0

Start UTC_TIME : 1997-092 // 12:30:02.401
No End Time :
Start SCLK : 1/03895312:00:0:0

Target Body : JUPITER
Target Cone/Clock : 87.56/ 95.63 Deg
S/C to Body Center : 1842492. Km (25.772008 Rj)
Z-axis Pointing (Ra / Dec) : 136.90 / 15.10 Deg

Activity ID: Orbit G7 **OAPEL** JUG7AURA **SeqNo** 02-

Title UVS/EUV AURORA MAP 2, HI RATE G7 INBD **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7A **Calendar Date** 04/02/97 **Week** 14

Start	JEE-CDS 00002723:00:0	97-092/13:10:33.067	JEE-001/21:53:15.333
End	JEE-CDS 00002631:00:0	97-092/14:43:34.400	JEE-001/20:20:14.000
Duration	00000092:00:0	000/01:33:01.333	000/01:33:01.333

Top Label G7JUG7AURA02-

Bottom Label (UVS/EUV RTS Aurora)

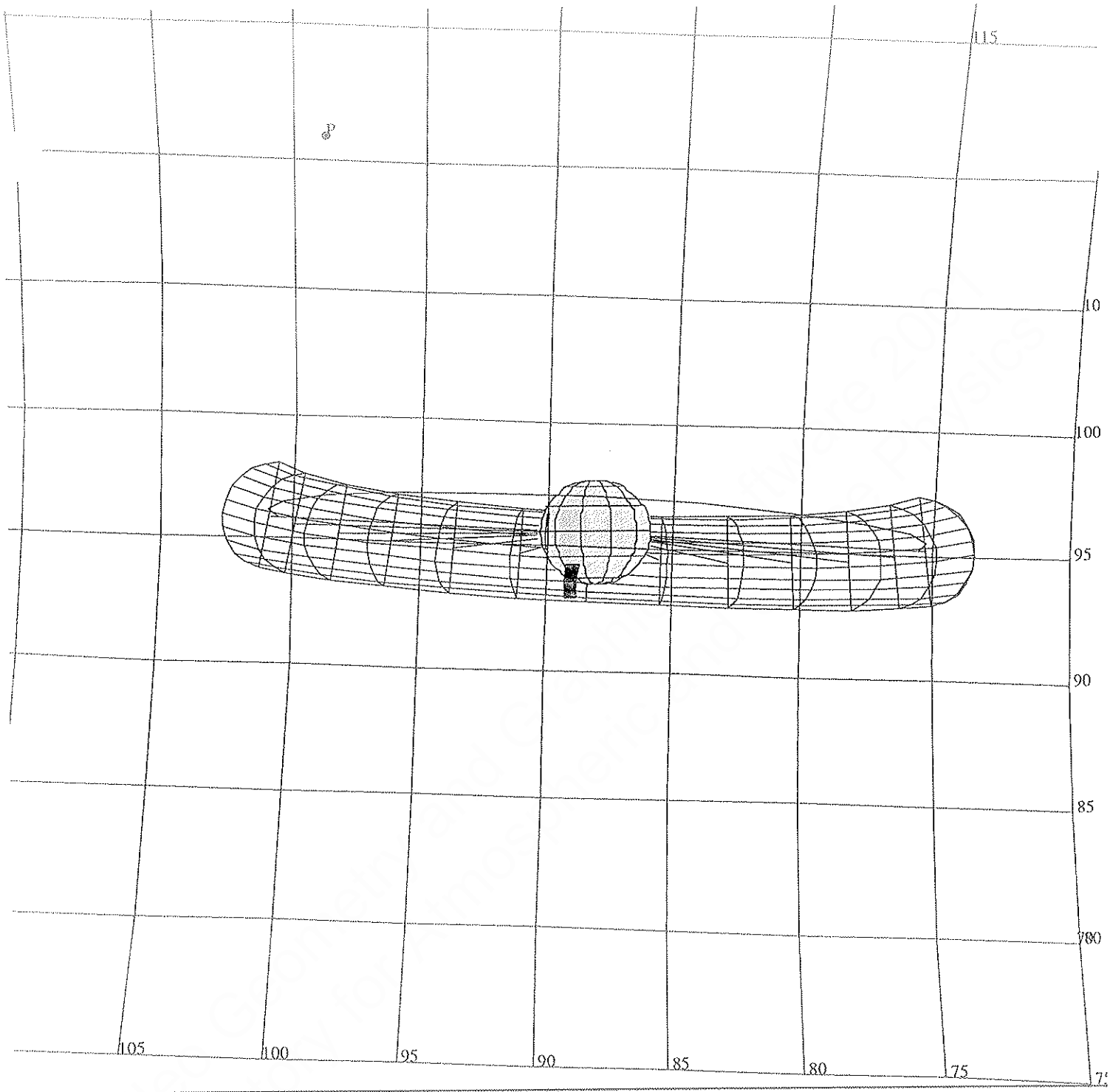
Plot Key	UVS	**Type**	SCI		
CDS Bytes	128	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	PA	**Spin State**	DUAL	**DMS**	No

Observation Objective

UVS/EUV JUPITER AURORA MAP 2 (DARKSIDE EQUATOR AND SOUTHERN AURORA), HIGH RATE, G7 INBOUND:
From: 0.8 Rj at cone 90, TARGETing darkside Jupiter equator
To: 0.4 Rj at cone 90, TARGETing darkside southern hemisphere aurora
Data rate: Instrument states last 30 RIMS; thus, 9.73 bps UVS, 9.73 bps EUV
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
UVS/EUV deselected; thus, 30-RIM UVFLUSHes needed to PACKET BOTH
WAVELENGTHS (Angstroms):
Emission lines: UVS (H2 1253, H2 1611)
2POSN-88STEP G/G (UVS): G 1131.5-1265.9 (CTR 1199.7, STEP 44) [EVEN FRAMES],
G 1199.7-1333.4 (CTR 1267.5, STEP 88) [ODD FRAMES]
FULLSCAN F/G (UVS): F 1616.5-3227.9 (CTR 2436.8, STEP 264) [EVEN FRAMES],

Design Detail

```
PSID     RIM:mf   CDS PA
-----------------------------------------------------------------------------------------
384BJ    0        0   COMMENT [UVS RIM 0]
165BF    2        36  TARGET [CONE 90.00, CLOCK 95.55, POSITION SLEW ALLOCATION 2]
         2            34UVS,DF,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,2C,7D,00,2C [88STEP G/G]
349MW    60:69    28  UVFLUSH [6UVRT, PACKET, BOTH]
165BG    62       36  TARGET [CONE 90.00, CLOCK 93.50, POSITION SLEW ALLOCATION 1]
         62           34UVS,07,S,N,N,N,S,0,ON,OFF,ON,ON,OFF,NO,1,00,9C,01,2C [FULLSCAN F/G]
349MX    90:69    28  UVFLUSH [6UVRT, PACKET, BOTH]
         92           34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
```



165BF:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/3453 TC= 2(90.0 95.55)
A= 364 pD= 0 SR=17.450 RA50=221.86 DEC50=-18.03 cone= 90.00 clock= 95.55
165BG:TT= 0 TMC= 1 C= 0.00 XC= 0.00 BS= 0/4373 TC= 2(90.0 93.5)
A= 182 pD= 0 SR=17.450 RA50=221.26 DEC50=-20.00 cone= 90.00 clock= 93.50

ARGET G3.0 lisac: 2/26/1997 10:14:59

ILE:P.G7JUG7AURA02

ENTRAL BODY:JUPITER

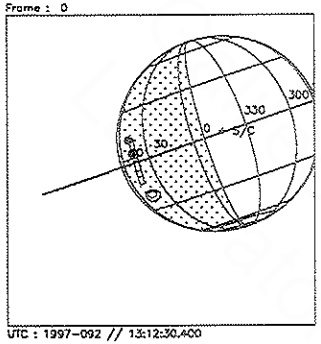
INI:m.target

PH:/DATA/NAVIO/T-970223-TOUR.NS

ERIAPSIS: THINNING:UVS 300 :UVS 300

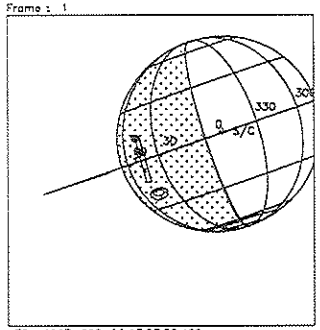
TART:JEE 97-094/11:03:48.400 -CDS 2721:00:0 BODY PLOT TIME:TARGET-TIME D= 0 S= 0.100

Frame : 0



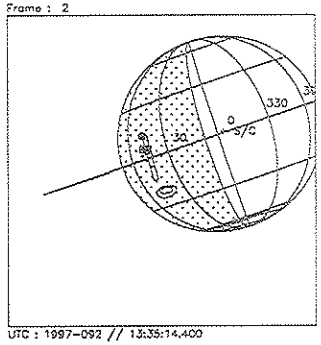
UTC : 1997-092 // 13:12:30.400
SCLK: 1/03895354:00:0:0

Frame : 1



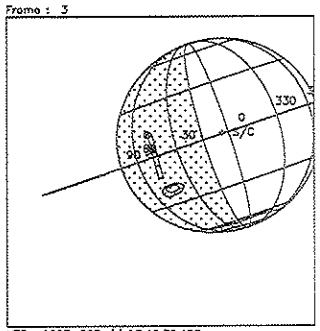
UTC : 1997-092 // 13:23:52.400
SCLK: 1/03895385:22:0:0

Frame : 2



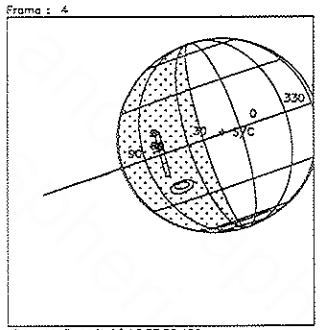
UTC : 1997-092 // 13:35:14.400
SCLK: 1/03895376:44:0:0

Frame : 3



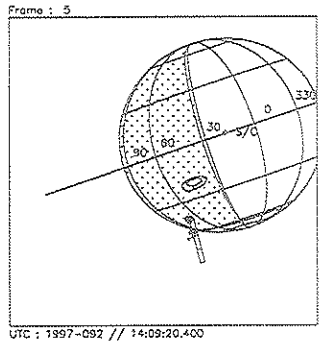
UTC : 1997-092 // 13:46:36.400
SCLK: 1/03895387:66:0:0

Frame : 4



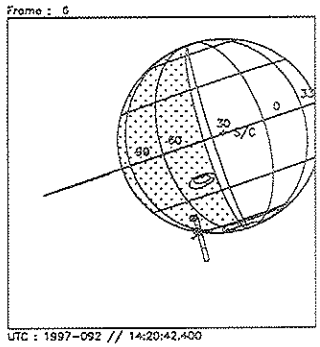
UTC : 1997-092 // 13:57:58.400
SCLK: 1/03895398:88:0:0

Frame : 5



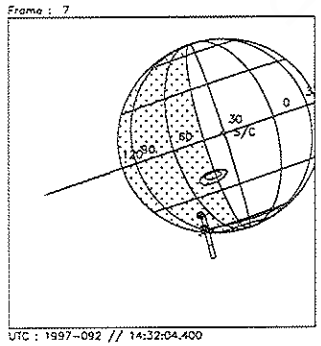
UTC : 1997-092 // 14:09:20.400
SCLK: 1/03895410:19:0:0

Frame : 6



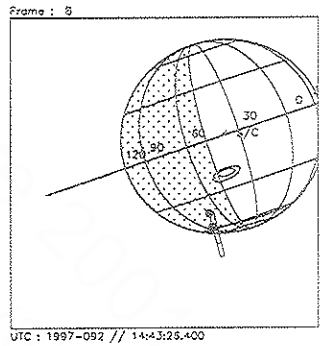
UTC : 1997-092 // 14:20:42.400
SCLK: 1/03895421:41:0:0

Frame : 7



UTC : 1997-092 // 14:32:04.400
SCLK: 1/03895432:63:0:0

Frame : 8



UTC : 1997-092 // 14:43:25.400
SCLK: 1/03895443:85:0:0

Start UTC_TIME : 1997-092 // 13:12:30.400
End UTC_TIME : 1997-092 // 14:43:30.397
Start SCLK : 1/03895354:00:0:0
Delta Time between FOV : 682.0000
FOVs : F Channel(0.1x0.4), N/G Channel(0.5x0.5)

Target Body : JUPITER
Target Cone/Clock : 88.10/ 95.61 Deg
S/C to Body Center : 1823167. Km (25.501690 Rj)
Z-axis Pointing (Ra / Dec) : 136.90 / 15.10 Deg

Activity ID: Orbit	G7	OAPEL	JVG7AURA
SeqNo	03-		
Title	EUV AURORA MAP 3, LO RATE G7 INBD	Instrument	EUV
Requestor	UVS-MWG/S.STEPHENS	Team	UVS
Working Group	MWG		

Time System	CDS	Load ID	G7A	Calendar Date	04/02/97
Week	14				

Start	JEE-CDS 00002631:00:0	97-092/14:43:34.400	JEE-001/20:20:14.000
End	JEE-CDS 00002360:00:0	97-092/19:17:35.067	JEE-001/15:46:13.333
Duration	00000271:00:0	000/04:34:00.667	000/04:34:00.667

Top Label	G7JVG7AURA03-				
Bottom Label	(EUV RTS Aurora)				
Plot Key	EUV	Type	SCI		
CDS Bytes	0	Report Options	BOTH	Scan Platform	No
CDS Source	PA	Spin State	DUAL	DMS	No

Observation Objective

EUV JUPITER AURORA MAP 3, LOW RATE, G7 INBOUND:
From: 0.4 Rj at cone 90, on darkside
To: 1.0 Rj at cone 90, on brightside (just outside Jupiter)
Data rate: Instrument states usually last 30 or 60 RIMS; thus, 9.73 or 4.87 bps EUV
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
UVS/EUV deselected; thus, 30- or 60-RIM UVFLUSHes needed to PACKET EUV
WAVELENGTHS (Angstroms):
EUV only, since UVS is being used by UVS-AWG for Jupiter observations
NOTE: Collaborative observation of northern auroral oval occurs at the same time,
involving UVS-AWG (real-time) and ridealongs by SSI (recorded) and NIMS (real-time)

Design Detail

PSID	RIM:mf	CDS	PA		
384BK	0	0	COMMENT	[UVS RIM 0]	
*349AC	62:69	28	UVFLUSH	[6UVRT, PACKET, EUV]	*NOTE: part of UVS-AWG PACKET BOTH
*349AE	113:69	28	UVFLUSH	[6UVRT, PACKET, EUV]	*NOTE: part of UVS-AWG PACKET BOTH
*349AG	154:69	28	UVFLUSH	[6UVRT, PACKET, EUV]	*NOTE: part of UVS-AWG PACKET BOTH
*349AH	184:69	28	UVFLUSH	[6UVRT, PACKET, EUV]	*NOTE: part of UVS-AWG PACKET BOTH
*349AI	214:69	28	UVFLUSH	[6UVRT, PACKET, EUV]	*NOTE: part of UVS-AWG PACKET BOTH
*349AJ	235:69	28	UVFLUSH	[6UVRT, PACKET, EUV]	*NOTE: part of UVS-AWG PACKET BOTH
*349AL	269:69	28	UVFLUSH	[6UVRT, PACKET, EUV]	*NOTE: part of UVS-AWG PACKET BOTH

Activity ID: Orbit G7 **OAPEL** TUG7NANS **SeqNo** 02-

Title UVS NOON ANSA MAP 2, HI RATE G7 INBD **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7A **Calendar Date** 04/03/97 **Week** 14

Start	JEE-CDS 00001665:00:0	97-093/07:00:18.400	JEE-001/04:03:30.000
End	JEE-CDS 00001541:00:0	97-093/09:05:41.067	JEE-001/01:58:07.333
Duration	00000124:00:0	000/02:05:22.667	000/02:05:22.667

Top Label G7TUG7NANS02-

Bottom Label (UVS RTS Torus)

Plot Key	UVS	**Type**	SCI		
CDS Bytes	256	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	PA	**Spin State**	DUAL	**DMS**	No

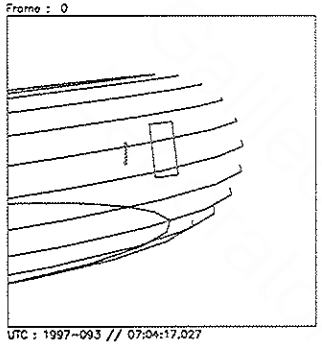
Observation Objective

```
UVS IO TORUS NOON ANSA MAP 2, HIGH RATE (RIBBON), G7 INBOUND:
  From: 5.34 Rj at cone 90 (ribbon at 5.76 Rj, Sys III W Long 220)
  To:   5.99 Rj at cone 90
  Data rate: Instrument states last 30 RIMS; thus, 9.73 bps UVS
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
  UVS/EUV deselected; thus, 30-RIM UVFLUSHes needed to PACKET UVS
after initial DISCRD
WAVELENGTHS (Angstroms):
  Emission lines: UVS (S+ 1259, O+ 3728, S+ 4070)
  2POSN-22STEP N/G MINISCAN (UVS):  N 4040.9-4098.7 (CTR 4071.2, STEP
436) [EVEN FRAMES],
                                    G 1239.8-1272.1 (CTR 1256.7, STEP
81) [ODD FRAMES]
  2POSN-22STEP N/N MINISCAN (UVS):  N 3700.0-3759.3 (CTR 3731.1, STEP
314) [EVEN FRAMES],
                                    N 4040.9-4098.7 (CTR 4071.2, STEP
436) [ODD FRAMES]
```

Design Detail

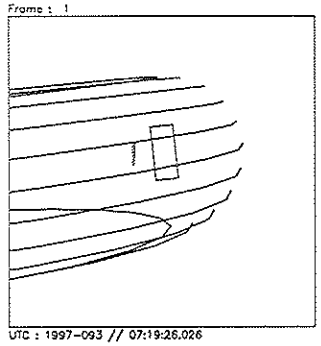
```
PSID     RIM:mf   CDS PA
-----------------------------------------------------------------------------
384BM    0        0   COMMENT [UVS RIM 0]
157BK    3        80  CMDRS (10+14*5) [PLAN DUR 121, EST UVS CMDS 5]
349ND    3:69     28  UVFLUSH [6UVRT, DISCRD, UVS]
165BH    4        36  TARGET [CONE 90.00, CLOCK 93.65, POSITION SLEW ALLOCATION 4]
         4            34UVS,D3,F,N,N,N,S,0,OFF,ON,ON,ON,OFF,NO,1,D5,4E,05,63 [22STEP N/G]
349NE    32:69    28  UVFLUSH [6UVRT, PACKET, BOTH]
         34           34UVS,D3,F,N,N,N,S,0,OFF,ON,OFF,ON,OFF,NO,1,5B,4E,00,7A [22STEP N/N]
349NF    62:69    28  UVFLUSH [6UVRT, PACKET, BOTH]
         64           34UVS,D3,F,N,N,N,S,0,OFF,ON,ON,ON,OFF,NO,1,D5,4E,05,63 [22STEP N/G]
349NG    92:69    28  UVFLUSH [6UVRT, PACKET, BOTH]
         94           34UVS,D3,F,N,N,N,S,0,OFF,ON,OFF,ON,OFF,NO,1,5B,4E,00,7A [22STEP N/N]
349NH    122:69   28  UVFLUSH [6UVRT, PACKET, BOTH]
         124          34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
```

Frame : 0



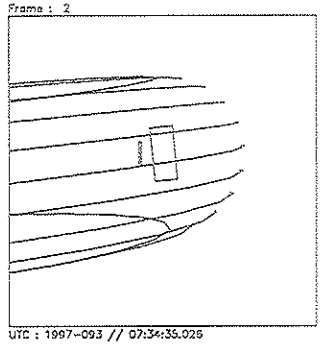
UTC : 1997-093 // 07:04:17.027
SCLK: 1/03896414:00:0:0

Frame : 1



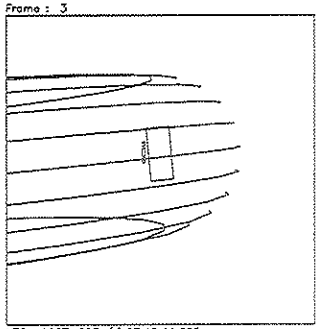
UTC : 1997-093 // 07:19:26.026
SCLK: 1/03896428:89:5:0

Frame : 2



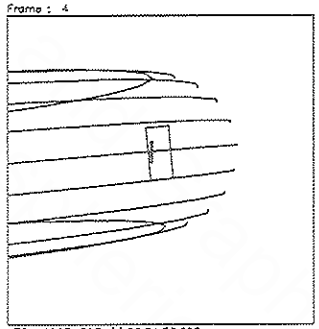
UTC : 1997-093 // 07:34:35.026
SCLK: 1/03896443:88:0:0

Frame : 3



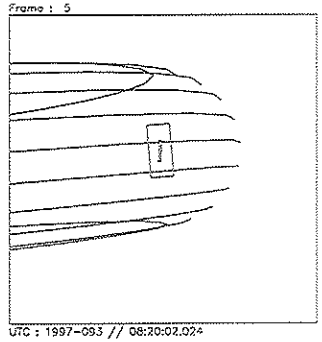
UTC : 1997-093 // 07:49:44.025
SCLK: 1/03896458:86:5:0

Frame : 4



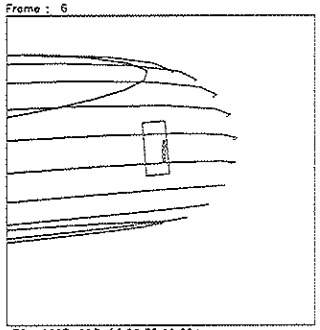
UTC : 1997-093 // 08:04:53.025
SCLK: 1/03896473:85:0:0

Frame : 5



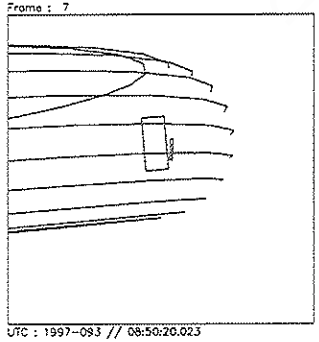
UTC : 1997-093 // 08:20:02.024
SCLK: 1/03896488:83:5:0

Frame : 6



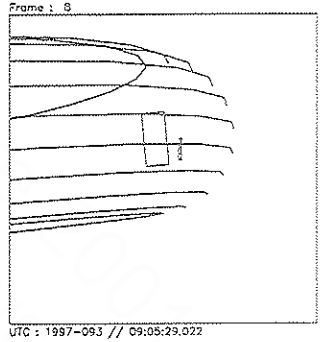
UTC : 1997-093 // 08:35:11.024
SCLK: 1/03896503:82:0:0

Frame : 7



UTC : 1997-093 // 08:50:20.023
SCLK: 1/03896518:80:5:0

Frame : 8



UTC : 1997-093 // 09:05:29.022
SCLK: 1/03896533:79:0:0

Start UTC_TIME : 1997-093 // 07:04:17.027
No End Time :
Start SCLK : 1/03896414:00:0:0

Target Body : JUPITER
Target Cone/Clock : 106.92/ 94.99 Deg
S/C to Body Center : 1307991. Km (18.295625 Rj)
Z-axis Pointing (Ra / Dec) : 136.90 / 15.10 Deg

Activity ID: Orbit G7 **OAPEL** TUG7NANS **SeqNo** 03-

Title UVS NOON ANSA MAP 3, LO RT G7 INBD **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7A **Calendar Date** 04/03/97 **Week** 14

Start	JEE-CDS 00001526:00:0	97-093/09:20:51.067	JEE-001/01:42:57.333
End	JEE-CDS 00001464:00:0	97-093/10:23:32.400	JEE-001/00:40:16.000
Duration	00000062:00:0	000/01:02:41.333	000/01:02:41.333

Top Label G7TUG7NANS03-

Bottom Label (UVS RTS Torus)

Plot Key	UVS	**Type**	SCI		
CDS Bytes	130	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	PA	**Spin State**	DUAL	**DMS**	No

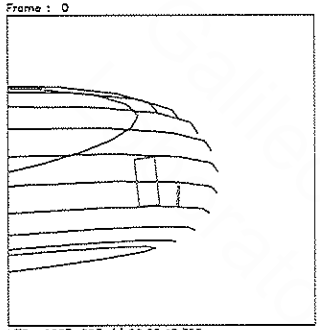
Observation Objective

```
UVS IO TORUS NOON ANSA MAP 3, LOW RATE, G7 INBOUND:
  From: 6.08 Rj at cone 90 (ribbon at 5.76 Rj, Sys III W Long 220)
  To:   6.40 Rj at cone 90
  Data rate: Instrument state lasts 60 RIMS; thus, 4.87 bps UVS
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
  UVS deselected; thus, 60-RIM UVFLUSH needed to PACKET UVS after
initial DISCRD
WAVELENGTHS (Angstroms):
  Emission lines: UVS (S+ 1259, S+ 4070)
  2POSN-22STEP N/G MINISCAN (UVS):  N 4040.9-4098.7 (CTR 4071.2, STEP
436) [EVEN FRAMES],
                                    G 1239.8-1272.1 (CTR 1256.7, STEP
81) [ODD FRAMES]
```

Design Detail

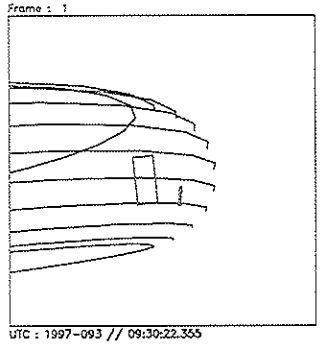
```
PSID    RIM:mf  CDS PA
-----------------------------------------------------------------------
384BN   0       0   COMMENT [UVS RIM 0]
157BL   1       38  CMDRS (10+14*2) [PLAN DUR 61, EST UVS CMDS 2]
349NI   1:69    28  UVFLUSH [6UVRT, DISCRD, UVS]
165BI   2       36  TARGET [CONE 90.00, CLOCK 93.65, POSITION SLEW ALLOCATION 2]
        2           34UVS,D3,F,N,N,N,S,0,OFF,ON,ON,ON,OFF,NO,1,D5,4E,05,63 [22STEP N/G]
349NJ   60:69   28  UVFLUSH [6UVRT, PACKET, UVS]
        62          34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
```

Frame : 0



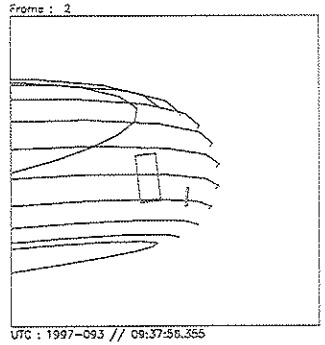
UTC : 1997-093 // 09:22:48.355
SCLK: 1/03896551:00:0:0

Frame : 1



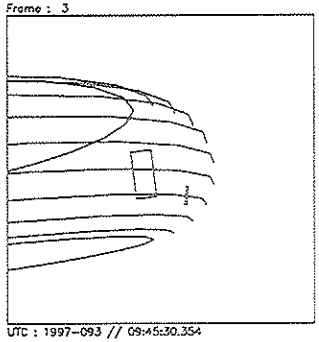
UTC : 1997-093 // 09:30:22.355
SCLK: 1/03896558:44:0:0

Frame : 2



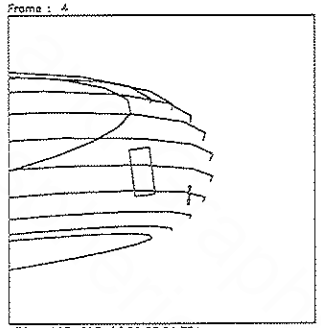
UTC : 1997-093 // 09:37:56.355
SCLK: 1/03896565:88:0:0

Frame : 3



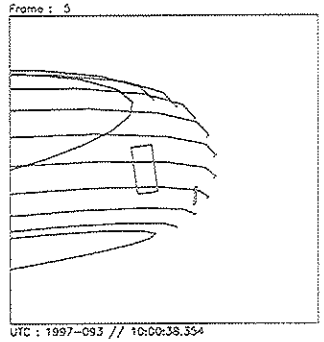
UTC : 1997-093 // 09:45:30.354
SCLK: 1/03896573:41:0:0

Frame : 4



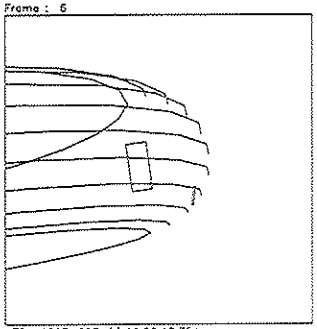
UTC : 1997-093 // 09:53:04.354
SCLK: 1/03896580:85:0:0

Frame : 5



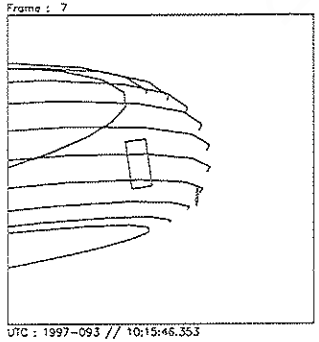
UTC : 1997-093 // 10:00:38.354
SCLK: 1/03896588:38:0:0

Frame : 6



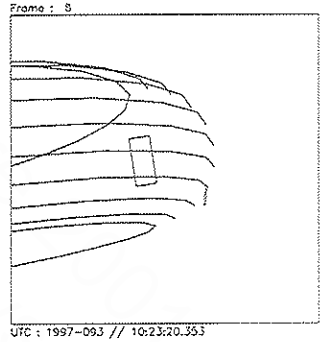
UTC : 1997-093 // 10:08:12.354
SCLK: 1/03896595:82:0:0

Frame : 7



UTC : 1997-093 // 10:15:46.353
SCLK: 1/03896603:35:0:0

Frame : 8



UTC : 1997-093 // 10:23:20.353
SCLK: 1/03896610:79:0:0

Start UTC_TIME : 1997-093 // 09:22:48.355
No End Time :
Start SCLK : 1/03896551:00:0:0

Target Body : JUPITER
Target Cone/Clock : 110.52/ 94.86 Deg
S/C to Body Center : 1238289. Km (17.320667 Rj)
Z-axis Pointing (Ra / Dec) : 136.90 / 15.10 Deg

Activity ID: Orbit G7 **OAPEL** TUG7NPRO **SeqNo** 01-

Title UVS NOON ANSA PROFILE 1, G7 INBD **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7A **Calendar Date** 04/03/97 **Week** 14

Start	JEE-CDS 00001111:00:0	97-093/16:20:27.734	JEE-000/18:43:20.666
End	JEE-CDS 00001047:00:0	97-093/17:25:10.400	JEE-000/17:38:38.000
Duration	00000064:00:0	000/01:04:42.666	000/01:04:42.666

Top Label G7TUG7NPRO01-

Bottom Label (UVS RTS Torus)

Plot Key	UVS	**Type**	SCI		
CDS Bytes	130	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	PA	**Spin State**	DUAL	**DMS**	No

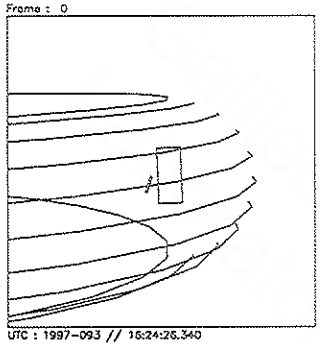
Observation Objective

```
UVS IO TORUS NOON ANSA RADIAL PROFILE 1, G7 INBOUND:
  From: 5.56 Rj at > cone 90 (ribbon at 5.76 Rj, Sys III W Long 300)
  To:   5.96 Rj at fixed cone
  Data rate: Instrument state lasts 60 RIMS; thus, 4.87 bps UVS
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
  UVS deselected; thus, 60-RIM UVFLUSH needed to PACKET UVS, after
initial DISCRD
WAVELENGTHS (Angstroms):
  Emission lines: UVS (S+ 1259, S+ 4070)
  2POSN-22STEP N/G MINISCAN (UVS):  N 4040.9-4098.7 (CTR 4071.2, STEP
436) [EVEN FRAMES],
                                    G 1239.8-1272.1 (CTR 1256.7, STEP
81) [ODD FRAMES]
```

Design Detail

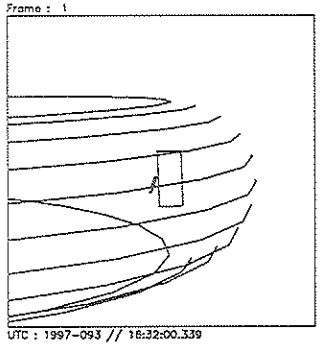
```
PSID     RIM:mf   CDS PA
-----------------------------------------------------------------------------
384BO    0        0   COMMENT [UVS RIM 0]
157BM    3        38  CMDRS (10+14*2) [PLAN DUR 61, EST UVS CMDS 2]
349NK    3:69     28  UVFLUSH [6UVRT, DISCRD, UVS]
165BJ    4        36  TARGET [CONE 101.73, CLOCK 92.80, POSITION SLEW ALLOCATION 4]
         4            34UVS,D3,F,N,N,N,S,0,OFF,ON,ON,ON,OFF,NO,1,D5,4E,05,63 [22STEP N/G]
349NL    62:69    28  UVFLUSH [6UVRT, PACKET, UVS]
         64           34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
```

Frame : 0



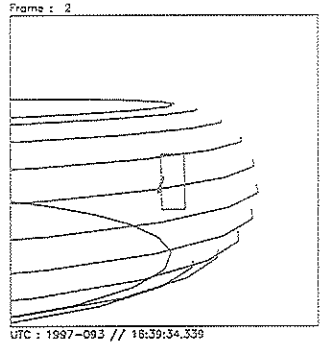
UTC : 1997-093 // 16:24:26.340
SCLK: 1/03896968:00:0:0

Frame : 1



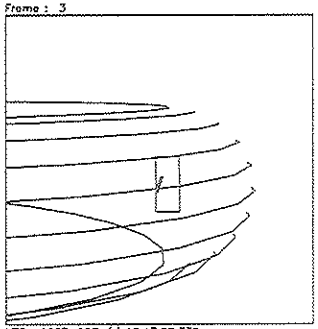
UTC : 1997-093 // 16:32:00.339
SCLK: 1/03896975:44:0:0

Frame : 2



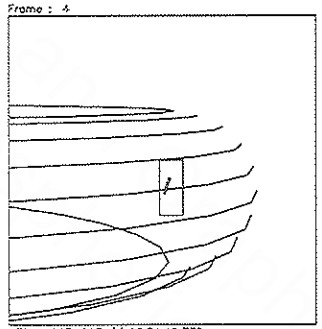
UTC : 1997-093 // 16:39:34.339
SCLK: 1/03896982:88:0:0

Frame : 3



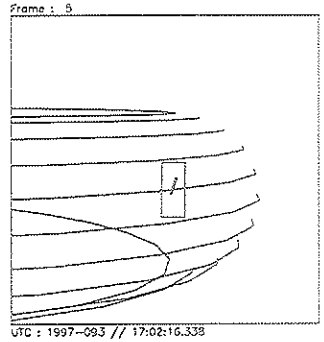
UTC : 1997-093 // 16:47:08.339
SCLK: 1/03896990:41:0:0

Frame : 4



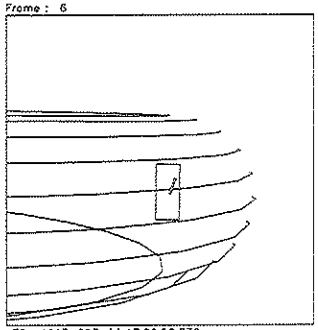
UTC : 1997-093 // 16:54:42.338
SCLK: 1/03896997:85:0:0

Frame : 5



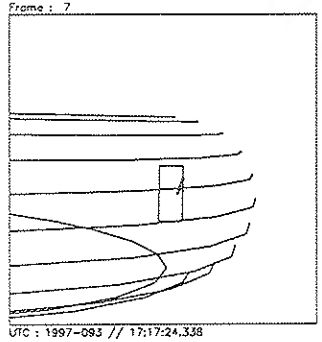
UTC : 1997-093 // 17:02:16.338
SCLK: 1/03897005:38:0:0

Frame : 6



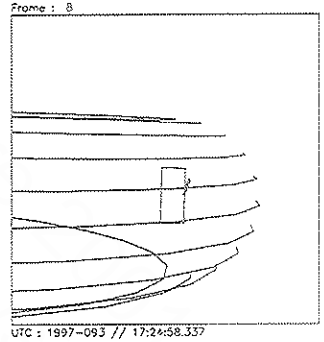
UTC : 1997-093 // 17:09:50.338
SCLK: 1/03897012:82:0:0

Frame : 7



UTC : 1997-093 // 17:17:24.338
SCLK: 1/03897020:35:0:0

Frame : 8



UTC : 1997-093 // 17:24:58.337
SCLK: 1/03897027:79:0:0

Start UTC_TIME : 1997-093 // 16:24:26.340
No End Time :
Start SCLK : 1/03896968:00:0:0

Target Body : JUPITER
Target Cone/Clock : 124.50/ 94.29 Deg
S/C to Body Center : 1026253. Km (14.354802 Rj)
Z-axis Pointing (Ra / Dec) : 136.90 / 15.10 Deg

Activity ID: Orbit G7 **OAPEL** HUMAGNEB **SeqNo** 01-

Title UVS MAGNETONEBULA OBSERVATION 1 **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7B **Calendar Date** 04/06/97 **Week** 14

Start	JEE+CDS 00003259:00:0	97-096/17:59:01.066	JEE+002/06:55:12.666
End	JEE+CDS 00005310:00:0	97-098/04:32:48.400	JEE+003/17:29:00.000
Duration	00002051:00:0	001/10:33:47.334	001/10:33:47.334

Top Label G7HUMAGNEB01-

Bottom Label (UVS RTS Magnetonebula)

Plot Key	UVS	**Type**	SCI		
CDS Bytes	249	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	PA	**Spin State**	DUAL	**DMS**	No

Observation Objective

```
UVS MAGNETONEBULA OBSERVATION 1, G7 CRUISE
  From: nearly anti-solar direction, cone 175.00
  To:   constant cone angle, rotating clock angle (due to Scan-Type
3)
  Data rate: Instrument state lasts 2046 RIMS; thus, 0.14 bps UVS
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
  UVS deselected; thus, 2046-RIM UVFLUSH needed to PACKET UVS, after
initial DISCRD
WAVELENGTHS (Angstroms):
  Emission lines: UVS (neutral O 1304)
  2POSN-1STEP G/G MINISCAN (UVS):   G 1304.3 (STEP 112) [EVEN
FRAMES],
                                    G 1319.6 (STEP 122) [ODD FRAMES]
  Strategy for MINISCANS:   Use 1STEP MINISCAN for PWS quiet,
                            work around RPM Maintenance (DOY 97)
```

Design Detail

```
PSID     RIM:mf   CDS PA
-----------------------------------------------------------------------------
384BP    -3       0   COMMENT [UVS RIM 0]
176BA    -3       15  SCITLM [PAUSE PB]
165BK    4        36  TARGET [CONE 175.00, CLOCK 90.00, POSITION SLEW ALLOCATION 4], S/T 3
157BN    4        38  CMDRS (10+14*2) [PLAN DUR 1177, EST UVS CMDS 2]
349NM    4:69     28  UVFLUSH [6UVRT, DISCRD, UVS]
         5            34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,9C,05,00,0A [1STEP G/G]
176BB    6        15  SCITLM [RESUME PB]
         1181         34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
165BL    1233     36  TARGET [CONE 175.00, CLOCK 90.00, POSITION SLEW ALLOCATION 4], S/T 3
157BO    1233     38  CMDRS (10+14*2) [PLAN DUR 818, EST UVS CMDS 2]
         1234         34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,9C,05,00,0A [1STEP G/G]
176BD    1235     15  SCITLM [RESUME PB]
349NN    2049:69  28  UVFLUSH [6UVRT, PACKET, UVS]
         2051         34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
```

Activity ID: Orbit G7 **OAPEL** HUMAGNEB **SeqNo** 02-

Title UVS MAGNETONEBULA OBSERVATION 2 **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7B **Calendar Date** 04/09/97 **Week** 15

Start	JEE+CDS 00006855:00:0	97-099/06:34:58.400	JEE+004/19:31:10.000
End	JEE+CDS 00015404:00:0	97-105/06:38:57.733	JEE+010/19:35:09.333
Duration	00008549:00:0	006/00:03:59.333	006/00:03:59.333

Top Label G7HUMAGNEB02-

Bottom Label (UVS RTS Magnetonebula)

Plot Key UVS **Type** SCI

CDS Bytes 240 **Report Options** BOTH **Scan Platform** Yes

CDS Source PA **Spin State** DUAL **DMS** No

Observation Objective

```
UVS MAGNETONEBULA OBSERVATION 2, G7 CRUISE
  From: nearly anti-solar direction, cone 175.00
  To:   constant cone angle, rotating clock angle (due to Scan-Type
3)
  Data rate: Instrument states last 1424 RIMS; thus, 0.21 bps UVS
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
  UVS selected, FMT A; thus, 1424-RIM UVFLUSHes needed to PACKET UVS,
after initial DISCRD
WAVELENGTHS (Angstroms):
  Emission lines: UVS (neutral O 1304)
  2POSN-1STEP G/G MINISCAN (UVS):   G 1304.3 (STEP 112) [EVEN
FRAMES],
                                    G 1319.6 (STEP 122) [ODD FRAMES]
  Strategy for MINISCANS:   Use 1STEP MINISCAN for PWS quiet,
                            work around NIMS RCT cal (DOY 99) and
NIMS PCT cal (DOY 104)
```

Design Detail

PSID	RIM:mf	CDS	PA
384BQ	0	0	COMMENT [UVS RIM 0]
165BM	4	36	TARGET [CONE 175.00, CLOCK 90.00, POSITION SLEW ALLOCATION 4], S/T 3
157BP	4	24	CMDRS (10+14*1) [PLAN DUR 1, EST UVS CMDS 1]
432BB	4:45	38	OPTRTM [UVS INCLUDE, BLOCKSHIFT 45 MINOR FRAMES]
349NO	4:69	28	UVFLUSH [6UVRT, DISCRD, UVS]
	5		34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,9C,05,00,0A [1STEP G/G]
176BF	6	15	SCITLM [RESUME PB]
157BQ	6900	24	CMDRS (10+14*1) [PLAN DUR 1, EST UVS CMDS 1]
	6901		34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
165BS	6990	36	TARGET [CONE 175.00, CLOCK 90.00, POSITION SLEW ALLOCATION 4], S/T 3
157BR	6990	24	CMDRS (10+14*1) [PLAN DUR 1, EST UVS CMDS 1]
	6991		34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,9C,05,00,0A [1STEP G/G]
176BE	6992	15	SCITLM [RESUME PB]

Activity ID: Orbit G7 **OAPEL** HUMAGNEB **SeqNo** 03-

Title UVS MAGNETONEBULA OBSERVATION 3 **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7B **Calendar Date** 04/15/97 **Week** 16

Start	JEE+CDS 00015404:00:0	97-105/06:38:57.733	JEE+010/19:35:09.333
End	JEE+CDS 00019678:00:0	97-108/06:40:27.066	JEE+013/19:36:38.666
Duration	00004274:00:0	003/00:01:29.333	003/00:01:29.333

Top Label G7HUMAGNEB03-

Bottom Label (UVS RTS Magnetonebula)

Plot Key UVS **Type** SCI

CDS Bytes 62 **Report Options** BOTH **Scan Platform** Yes

CDS Source PA **Spin State** DUAL **DMS** No

Observation Objective

UVS MAGNETONEBULA OBSERVATION 3, G7 CRUISE
From: nearly anti-solar direction, cone 175.00
To: constant cone angle, rotating clock angle (due to Scan-Type 3)
Data rate: Instrument states last 1424 RIMS; thus, 0.21 bps UVS
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
UVS selected, FMT A; thus, 1424-RIM UVFLUSHes needed to PACKET UVS
WAVELENGTHS (Angstroms):
Emission lines: UVS (neutral O 1304)
2POSN-1STEP G/G MINISCAN (UVS): G 1304.3 (STEP 112) [EVEN FRAMES],
G 1319.6 (STEP 122) [ODD FRAMES]
Strategy for MINISCANS: Use 1STEP MINISCAN for PWS quiet

Design Detail

PSID	RIM:mf	CDS	PA
384BR	0	0	COMMENT [UVS RIM 0]
157BS	4271	24	CMDRS (10+14*1) [PLAN DUR 1, EST UVS CMDS 1]
	4272		34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
432BE	4273	38	OPTRTM [UVS EXCLUDE]

Activity ID: Orbit G7 **OAPEL** HUMAGNEB **SeqNo** 04-

Title UVS MAGNETONEBULA OBSERVATION 4 **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7B **Calendar Date** 04/18/97 **Week** 16

Start	JEE+CDS 00020705:00:0	97-108/23:58:51.733	JEE+014/12:55:03.333
End	JEE+CDS 00023560:00:0	97-111/00:05:35.066	JEE+016/13:01:46.666
Duration	00002855:00:0	002/00:06:43.333	002/00:06:43.333

Top Label G7HUMAGNEB04-

Bottom Label (UVS RTS Magnetonebula)

Plot Key	UVS	**Type**	SCI		
CDS Bytes	218	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	PA	**Spin State**	DUAL	**DMS**	No

Observation Objective

UVS MAGNETONEBULA OBSERVATION 4, G7 CRUISE
From: nearly anti-solar direction, cone 175.00
To: constant cone angle, rotating clock angle (due to Scan-Type 3)
Data rate: Instrument states last 1424 RIMS; thus, 0.21 bps UVS
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
UVS selected, FMT A; thus, 1424-RIM UVFLUSHes needed to PACKET UVS, after initial DISCRD
WAVELENGTHS (Angstroms):
Emission lines: UVS (neutral O 1304)
2POSN-1STEP G/G MINISCAN (UVS): G 1304.3 (STEP 112) [EVEN FRAMES],
G 1319.6 (STEP 122) [ODD FRAMES]
Strategy for MINISCANS: Use 1STEP MINISCAN for PWS quiet

Design Detail

PSID	RIM:mf	CDS	PA
384BS	-3	0	COMMENT [UVS RIM 0]
176BG	-3	15	SCITLM [PAUSE PB]
165BN	4	36	TARGET [CONE 175.00, CLOCK 90.00, POSITION SLEW ALLOCATION 4], S/T 3
157BT	4	24	CMDRS (10+14*1) [PLAN DUR 1, EST UVS CMDS 1]
432BF	4:45	38	OPTRTM [UVS INCLUDE, BLOCKSHIFT 45 MINOR FRAMES]
349NP	4:69	28	UVFLUSH [6UVRT, DISCRD, UVS]
	5		34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,9C,05,00,0A [1STEP G/G]
176BH	6	15	SCITLM [RESUME PB]
157BU	2852	24	CMDRS (10+14*1) [PLAN DUR 1, EST UVS CMDS 1]
	2853		34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
432BG	2854	38	OPTRTM [UVS EXCLUDE]

Activity ID: Orbit G7 **OAPEL** HUMAGNEB **SeqNo** 05-

Title UVS MAGNETONEBULA OBSERVATION 5 **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7B **Calendar Date** 04/22/97 **Week** 17

Start	JEE+CDS 00025690:00:0	97-112/11:59:15.066	JEE+018/00:55:26.666
End	JEE+CDS 00027121:00:0	97-113/12:06:09.066	JEE+019/01:02:20.666
Duration	00001431:00:0	001/00:06:54.000	001/00:06:54.000

Top Label G7HUMAGNEB05-

Bottom Label (UVS RTS Magnetonebula)

Plot Key	UVS	**Type**	SCI		
CDS Bytes	218	**Report Options**	BOTH	**Scan Platform**	Yes
CDS Source	PA	**Spin State**	DUAL	**DMS**	No

Observation Objective

UVS MAGNETONEBULA OBSERVATION 5, G7 CRUISE
From: nearly anti-solar direction, cone 175.00
To: constant cone angle, rotating clock angle (due to Scan-Type 3)
Data rate: Instrument state lasts 1424 RIMS; thus, 0.21 bps UVS
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
UVS selected, FMT A; thus, 1424-RIM UVFLUSH needed to PACKET UVS, after initial DISCRD
WAVELENGTHS (Angstroms):
Emission lines: UVS (H Lyman alpha 1215, neutral O 1304)
2POSN-16STEP G/G MINISCAN (UVS): G 1202.8-1225.9 (CTR 1215.1, STEP 54) [EVEN FRAMES],
G 1290.5-1313.5 (CTR 1302.8, STEP 111) [ODD FRAMES]
Strategy for MINISCANS: Assume no need to maintain PWS quiet, after outbound RTS Survey

Design Detail

```
PSID     RIM:mf   CDS PA
-----------------------------------------------------------------------------------------
384BT    -3       0   COMMENT [UVS RIM 0]
176BI    -3       15  SCITLM [PAUSE PB]
165BO    4        36  TARGET [CONE 175.00, CLOCK 90.00, POSITION SLEW ALLOCATION 4], S/T 3
157BV    4        24  CMDRS (10+14*1) [PLAN DUR 1, EST UVS CMDS 1]
432BH    4:45     38  OPTRTM [UVS INCLUDE, BLOCKSHIFT 45 MINOR FRAMES]
349NQ    4:69     28  UVFLUSH [6UVRT, DISCRD, UVS]
         5            34UVS,D1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,5A,45,00,39 [16STEP G/G]
176BJ    6        15  SCITLM [RESUME PB]
157BW    1428     24  CMDRS (10+14*1) [PLAN DUR 1, EST UVS CMDS 1]
         1429         34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
432BI    1430     38  OPTRTM [UVS EXCLUDE]

[NOTE: 16STEP command used to be 34UVS,D1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,94,45,00,52]
```

Activity ID: **Orbit** G7 **OAPEL** HUMAGNEB **SeqNo** 06-

Title UVS MAGNETONEBULA OBSERVATION 6 **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7B **Calendar Date** 04/23/97 Week 17

Start	JEE+CDS 00027249:00:0	97-113/14:15:34.400	JEE+019/03:11:46.000
End	JEE+CDS 00034376:00:0	97-118/14:21:45.733	JEE+024/03:17:57.333
Duration	00007127:00:0	005/00:06:11.333	005/00:06:11.333

Top Label G7HUMAGNEB06-

Bottom Label (UVS RTS Magnetonebula)

Plot Key UVS **Type** SCI

CDS Bytes 203 **Report Options** BOTH **Scan Platform** Yes

CDS Source PA **Spin State** DUAL **DMS** No

Observation Objective

UVS MAGNETONEBULA OBSERVATION 6, G7 CRUISE
From: nearly anti-solar direction, cone 175.00
To: constant cone angle, rotating clock angle (due to Scan-Type 3)
Data rate: Instrument states last 1424 RIMS; thus, 0.21 bps UVS
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
UVS selected, FMT A; thus, 1424-RIM UVFLUSHes needed to PACKET UVS, after initial DISCRD
WAVELENGTHS (Angstroms):
Emission lines: UVS (H Lyman alpha 1215, neutral O 1304)
2POSN-16STEP G/G MINISCAN (UVS): G 1202.8-1225.9 (CTR 1215.1, STEP 54) [EVEN FRAMES],
G 1290.5-1313.5 (CTR 1302.8, STEP 111) [ODD FRAMES]
Strategy for MINISCANS: Assume no need to maintain PWS quiet

Design Detail

```
PSID     RIM:mf   CDS PA
-----------------------------------------------------------------------------------------
384BU    0        0   COMMENT [UVS RIM 0]
165BP    4        36  TARGET [CONE 175.00, CLOCK 90.00, POSITION SLEW ALLOCATION 4], S/T 3
157BX    4        24  CMDRS (10+14*1) [PLAN DUR 1, EST UVS CMDS 1]
432BJ    4:45     38  OPTRTM [UVS INCLUDE, BLOCKSHIFT 45 MINOR FRAMES]
349NR    4:69     28  UVFLUSH [6UVRT, DISCRD, UVS]
         5            34UVS,D1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,5A,45,00,39 [16STEP G/G]
176BL    6        15  SCITLM [RESUME PB]
157BY    7124     24  CMDRS (10+14*1) [PLAN DUR 1, EST UVS CMDS 1]
         7125         34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
432BK    7126     38  OPTRTM [UVS EXCLUDE]
```

1st 24h packet as is

[NOTE: 16STEP command used to be 34UVS,D1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,94,45,00,52]

REAL TIME COMMANDS made MAGNEB #6 do the following:
2nd + 3rd 24h packets = G/G full scans
4th + 5th 24h packets = 88 step G/G minis on L-α

KES Apr 25, 97

Activity ID: **Orbit** G7 **OAPEL** HUMAGNEB **SeqNo** 07-

Title UVS MAGNETONEBULA OBSERVATION 7 **Instrument** UVS

Requestor UVS-MWG/S.STEPHENS **Team** UVS **Working Group** MWG

Time System CDS **Load ID** G7B **Calendar Date** 04/29/97 **Week** 18

Start	JEE+CDS 00036005:00:0	97-119/17:48:51.733	JEE+025/06:45:03.333
End	JEE+CDS 00041708:00:0	97-123/17:55:13.733	JEE+029/06:51:25.333
Duration	00005703:00:0	004/00:06:22.000	004/00:06:22.000

Top Label G7HUMAGNEB07-

Bottom Label (UVS RTS Magnetonebula)

Plot Key UVS **Type** SCI

CDS Bytes 166 **Report Options** BOTH **Scan Platform** Yes

CDS Source PA **Spin State** DUAL **DMS** No

Observation Objective

UVS MAGNETONEBULA OBSERVATION 7, G7 CRUISE
From: nearly anti-solar direction, cone 175.00
To: constant cone angle, rotating clock angle (due to Scan-Type 3)
Data rate: Instrument states last 1424 RIMS; thus, 0.21 bps UVS
OPTRTM/UVFLUSH STRATEGY (17,712 bits per UVS or EUV PACKET):
UVS selected, FMT A; thus, 1424-RIM UVFLUSHes needed to PACKET UVS, after initial DISCRD
WAVELENGTHS (Angstroms):
Emission lines: UVS (H Lyman alpha 1215, neutral O 1304)
2POSN-16STEP G/G MINISCAN (UVS): G 1202.8-1225.9 (CTR 1215.1, STEP 54) [EVEN FRAMES],
G 1290.5-1313.5 (CTR 1302.8, STEP 111) [ODD FRAMES]
2POSN-1STEP G/G MINISCAN (UVS): G 1304.3 (STEP 112) [EVEN FRAMES],
G 1319.6 (STEP 122) [ODD FRAMES]

Design Detail

```
PSID     RIM:mf   CDS PA
-----------------------------------------------------------------------------------------
384BV    -3       0   COMMENT [UVS RIM 0]
157BZ    4        24  CMDRS (10+14*1) [PLAN DUR 1, EST UVS CMDS 1]
432BL    4:45     38  OPTRTM [UVS INCLUDE, BLOCKSHIFT 45 MINOR FRAMES]
349NS    4:69     28  UVFLUSH [6UVRT, DISCRD, UVS]
         5            34UVS,D1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,5A,45,00,39 [16STEP G/G]
157KA    4276     38  CMDRS (10+14*2) [PLAN DUR 1425, EST UVS CMDS 2]
         4277         34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,9C,05,00,0A [1STEP G/G]
         5701         34UVS,C1,F,N,N,N,S,0,OFF,OFF,ON,OFF,OFF,NO,1,2C,05,00,00 [HVOFF]
432BM    5702     38  OPTRTM [UVS EXCLUDE]

[NOTE: redundant TARGET (and associated S/T 3 UTILITY and Pause/Resume Playback) removed]
[NOTE: 16STEP command used to be 34UVS,D1,F,N,N,N,S,0,OFF,OFF,ON,ON,OFF,NO,1,94,45,00,52]
```

R.T. commands made all these 24th packets contain G/G full scans.

KES/apr 25 97