

UVS Io atmosphere observation

ACTIVITY ID: 24IUATMOS\_01-

START TIME: 99-284/11:55:55.000

Activity ID: Orbit 24		OAPEL IUATMOS_		SeqNo 01-	
Title	UVS Io atmosphere observation			Instrument	UVS
Requestor	UVS-SWG/W. SWEET X30523	Team	UVS	Working Group	SWG
Time System	CDS	Load ID	24A	Calendar Date	10/11/99
				Week	93
Start	IEE+CDS 00000438:00:0		99-284/11:55:55.000	IEE+000/07:22:52.000	
End	IEE+CDS 00000712:00:0		99-284/16:32:57.666	IEE+000/11:59:54.666	
Duration	00000274:00:0		000/04:37:02.666	000/04:37:02.666	
Top Label	24IUATMOS_01-				
Bottom Label	(real-time)				
Plot Key	UVS	Type	SCI		
CDS Bytes	260	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No
<b>Observation Objective</b>					
<div style="border: 1px solid black; padding: 5px;"> <p>24IUATMOS_01: satellite atmosphere full spectral study in the MUV to observe Io atmospheric hydrogen, sulphur, and oxygen as it is released to space.</p> <p>Rj = 9.5-12.1 Full F/F scan TMC on disk center</p> <p>BTG=0.088560 MBTG 5 flushes</p> <p>Note: Waiver G-15 for &lt; 13 Rj; OSAD.</p> </div>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384CA	00	00:00	COMMENT UVS RIM 0		
157CA	38	03:00	CMDRS PLAN_DUR = 271 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		04:00	1 UVF:07, SCAN, NORM, NORM, NORM, SAME, 0, ON, OFF, OFF, ON, OFF, NOOVR, 1, 00, 9C, 00, 00		
		274:00	271 OFF:07, SCAN, NORM, NORM, NORM, SAME, 0, ON, OFF, OFF, OFF, OFF, NOOVR, 1, 00, 9C, 00, 00		
349CA	28	03:69	UVFLSH DISCRD, UVS		
165CA	54	04:00	TARGET TMC body center (RA/Dec = 48.27/20.11)		
349CB	28	63:69	UVFLSH PACKET, UVS (1)		
349CC	28	123:69	UVFLSH PACKET, UVS (2)		
349CD	28	183:69	UVFLSH PACKET, UVS (3)		
349CE	28	243:69	UVFLSH PACKET, UVS (4)		
349CF	28	273:69	UVFLSH PACKET, UVS (5)		

UVS to surface observation

ACTIVITY ID: 24IUSURFAC01-

START TIME: 99-284/16:32:57.666

Activity ID: Orbit 24		OAPEL IUSURFAC		SeqNo 01-	
Title	UVS to surface observation			Instrument	UVS
Requestor	UVS-SWG/W. SWEET X30523	Team	UVS	Working Group	SWG
Time System	CDS	Load ID	24A	Calendar Date	10/11/99
				Week	93
Start	IEE+CDS 00000712:00:0		99-284/16:32:57.666	IEE+000/11:59:54.666	
End	IEE+CDS 00000803:00:0		99-284/18:04:58.333	IEE+000/13:31:55.333	
Duration	0000091:00:0		000/01:32:00.667	000/01:32:00.667	
Top Label	24IUSURFAC01-				
Bottom Label	(real-time)				
Plot Key	UVS	Type	SCI		
CDS Bytes	176	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No
<b>Observation Objective</b>					
<p>24IUSURFAC01: satellite surface property full spectral studies in the FUV to observe species absorption and excitation processes as well as scattering properties of the surface. These studies will complement previous work in the prime and GEM missions and will be studied in the context of other instruments observations (NIMS, SSI, and PPR).</p> <p>Rj = 12.1-12.9 Full G/G scan TMC on disk center</p> <p>BTG=0.05316 MBTG 3 flushes</p> <p>Note: Waiver G-15 for &lt; 13 Rj; OSAD.</p> <p style="text-align: right;"><i>SO2 at 1700-1800</i></p>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384CB	00	00:00	COMMENT UVS RIM 0		
157CB	38	00:00	CMDRS PLAN_DUR = 91 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		01:00	1 UVG:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,ON,OFF,NOOVR,1,2C,9D,00,00		
		91:00	91 OFF:07,SCAN,NORM,NORM,NORM,SAME,0,ON,OFF,OFF,OFF,OFF,NOOVR,1,00,9C,00,00		
349CF	00	00:69	UVFLSH DISCRD,UVS (use packet from previous observation to zero the buffer)		
165CB	54	01:00	TARGET TMC body center (RA/Dec = 53.57/21.46)		
349CH	28	30:69	UVFLSH PACKET,UVS (1)		
349CI	28	60:69	UVFLSH PACKET,UVS (2)		
349CJ	28	90:69	UVFLSH PACKET,UVS (3)		

UVS Io surface observation

ACTIVITY ID: 24IUSURFAC03+

START TIME: 99-284/18:04:58.333

Activity ID: Orbit 24		OAPEL IUSURFAC		SeqNo 03+	
Title	UVS Io surface observation			Instrument	UVS
Requestor	UVS-SWG/W. SWEET X30523	Team	UVS	Working Group	SWG
Time System	CDS	Load ID	24A	Calendar Date	10/11/99
				Week	93
Start	IEE+CDS 00000803:00:0		99-284/18:04:58.333	IEE+000/13:31:55.333	
End	IEE+CDS 00000806:00:0		99-284/18:08:00.333	IEE+000/13:34:57.333	
Duration	00000003:00:0		000/00:03:02.000	000/00:03:02.000	
Top Label	24IUSURFAC03+				
Bottom Label	(ridealong with SSI)				
Plot Key	UVS	Type	SCI		
CDS Bytes	38	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes
<b>Observation Objective</b>					
<p>24IUSURFAC03: satellite surface property full spectral studies in the PUV to observe species absorption and excitation processes as well as scattering properties of the surface. These studies will complement previous work in the prime and GEM missions and will be studied in the context of other instruments observations (NIMS, SSI, and PPR).</p> <p>Rj = 12.9  Full G/G scan, position 0.  TMC on disk center  ridealong with SSI global color of Io.</p> <p>BTG=0.020384 MBTG 1 RIM compression 3.0</p> <p>Note: OSAD.</p>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384CF	00	00:00	COMMENT UVS RIM 0		
157CF	38	00:00	CMDRS PLAN_DUR = 2 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		01:00	1 UVG:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,ON,OFF,NOOVR,1.00,9C.00,00		
		02:00	2 OFF:07,SCAN,NORM,NORM,NORM,SAME,0,ON,OFF,OFF,OFF,OFF,NOOVR,1.00,9C.00,00		
165IS	00	00:00	TARGET TMC body center (RA/Dec = 56.64/22.15)		

UVS Io atmosphere observation

ACTIVITY ID: 24IUATMOS\_02-

START TIME: 99-284/18:08:00.333

Activity ID: Orbit 24		OAPEL IUATMOS_		SeqNo 02-	
Title	UVS Io atmosphere observation			Instrument	UVS
Requestor	UVS-SWG/W. SWEET X30523	Team	UVS	Working Group	SWG
Time System	CDS	Load ID	24A	Calendar Date	10/11/99
				Week	93
Start	IEE+CDS 00000806:00:0		99-284/18:08:00.333	IEE+000/13:34:57.333	
End	IEE+CDS 00001080:00:0		99-284/22:45:03.000	IEE+000/18:12:00.000	
Duration	00000274:00:0		000/04:37:02.667	000/04:37:02.667	
Top Label	24IUATMOS_02-				
Bottom Label	(real-time)				
Plot Key	UVS	Type	SCI		
CDS Bytes	260	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No
<b>Observation Objective</b>					
<div style="border: 1px solid black; padding: 5px; width: 200px; float: left; margin-right: 10px;"></div> <p>24IUATMOS_02: satellite atmosphere full spectral study in the MUV to observe Io atmospheric hydrogen, sulphur, and oxygen as it is released to space.</p> <p>Rj = 13-15.5 Full F/F scan TMC on disk center</p> <p>BTG=0.088560 MBTG 5 flushes</p> <p>Note: OSAD.</p>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND	PARAMETERS	
384CC	00	00:00	COMMNT	UVS RIM 0	
157CC	38	03:00	CMDRS	PLAN_DUR = 271 RIMS; EST_UVS_CMDS = 2 (34UVS)	
		04:00		1 UVF:07,SCAN,NORM,NORM,NORM,SAME,0, ON,OFF,OFF, ON,OFF,NOOVR,1,00,9C,00,00	
		274:00		271 OFF:07,SCAN,NORM,NORM,NORM,SAME,0, ON,OFF,OFF,OFF,OFF,NOOVR,1,00,9C,00,00	
349CK	28	03:69	UVFLSH	DISCRD,UVS	
165CC	54	04:00	TARGET	TMC body center (RA/Dec = 56.89/22.21)	
349CL	28	63:69	UVFLSH	PACKET,UVS (1)	
349CM	28	123:69	UVFLSH	PACKET,UVS (2)	
349CN	28	183:69	UVFLSH	PACKET,UVS (3)	
349CO	28	243:69	UVFLSH	PACKET,UVS (4)	
349CP	28	273:69	UVFLSH	PACKET,UVS (5)	

UVS Io surface observation

ACTIVITY ID: 24IUSURFAC02-

START TIME: 99-284/22:45:03.000

Activity ID: Orbit 24		OAPEL IUSURFAC		SeqNo 02-	
Title	UVS Io surface observation			Instrument	UVS
Requestor	UVS-SWG/W. SWEET X30523		Team	UVS	Working Group SWG
Time System	CDS	Load ID	24A	Calendar Date	10/11/99
				Week	93
Start	IEE+CDS 00001080:00:0		99-284/22:45:03.000		IEE+000/18:12:00.000
End	IEE+CDS 00001174:00:0		99-285/00:20:05.666		IEE+000/19:47:02.666
Duration	00000094:00:0		000/01:35:02.666		000/01:35:02.666
Top Label	24IUSURFAC02-				
Bottom Label	(real-time)				
Plot Key	UVS	Type	SCI		
CDS Bytes	214	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No
<b>Observation Objective</b>					
<div style="border: 1px solid black; padding: 5px;"> <p>24IUSURFAC02: satellite surface property full spectral studies in the FUV to observe species absorption and excitation processes as well as scattering properties of the surface. These studies will complement previous work in the prime and GEM missions and will be studied in the context of other instruments observations (NIMS, SSL, and PPR).</p> <p>Rj = 15.5-16.5 Full G/G scan, position 0 TMC on disk center</p> <p>BTG=0.053136 MBTG 3 flushes</p> <p>Note: OSAD (Io may have drifted out of UVS slit).</p> </div>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384CD	00	00:00	COMMNT UVS RIM 0		
157CD	38	03:00	CMDRS PLAN_DUR = 91 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		04:00	1 UVG:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,OFF, ON, ON,OFF,NOOVR,1,00,9C,00,00		
		04:00	91 OFF:07,SCAN,NORM,NORM,NORM,SAME,0, ON,OFF,OFF,OFF,OFF,NOOVR,1,00,9C,00,00		
349CD	28	03:69	UVFLSH DISCRD,UVS		
165CD	54	04:00	TARGET TMC body center (RA/Dec = 68.52/24.20)		
349CD	28	33:69	UVFLSH PACKET,UVS (1)		
349CD	28	63:69	UVFLSH PACKET,UVS (2)		
349CD	28	93:69	UVFLSH PACKET,UVS (3)		

Activity ID: Orbit 24		OAPEL TU24NANS		SeqNo 01-	
Title	UVS NOON ANSA			Instrument	UVS
Requestor	UVS-SWG/W. SWEET X30523	Team	UVS	Working Group	MWG
Time System	CDS	Load ID	24A	Calendar Date	10/12/99
				Week	93
Start	IEE+CDS 00001174:00:0		99-285/00:20:05.666		IEE+000/19:47:02.666
End	IEE+CDS 00001309:00:0		99-285/02:36:35.666		IEE+000/22:03:32.666
Duration	00000135:00:0		000/02:16:30.000		000/02:16:30.000
Top Label	24TU24NANS01-				
Bottom Label	(real-time)				
Plot Key	UVS	Type	SCI		
CDS Bytes	65	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No
<b>Observation Objective</b>					
<div style="border: 1px solid black; padding: 5px;"> <p>24TU24NANS01: Io torus observation with the EUV and UVS continues the morphological study of the Io torus and provides the basis for a long term comparison between prime mission and GMM datasets over 4 years as well as asymmetries between dawn (prime mission) and dusk (GMM) torus ansae.</p> <p>UVS CONFIG: N/G 22-step</p> <p>Rj = 16.5-17.5</p> <p>BTG=0.035424 MBTG 2 flushes</p> </div>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
157BA	38	14:00	CMDRS PLAN_DUR = 121 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		15:00	1 UVN:D3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, ON, ON,		
ON, OFF,	NOOVR, 1,	D5, 4E,	05, 63		
		135:00	121 OFF:07, SCAN, NORM, NORM, NORM, SAME, 0,		
ON, OFF,	OFF, OFF,	NOOVR, 1,	00, 9C, 00, 00		
165BA	27	15:00	TARGET [CN 91.50, CK 281.2] (RA/Dec = 120.86/22.93)		

Activity ID: Orbit 24		OAPEL IUECLIPS		SeqNo 01-	
Title	UVS Io Eclipse observation			Instrument	UVS
Requestor	UVS-SWG/K.TOBISKA 3-7742	Team	UVS	Working Group	SWG
Time System	CDS	Load ID	24A	Calendar Date	10/12/99
				Week	93
Start	IEE+CDS 00001341:00:0		99-285/03:08:57.000		IEE+000/22:35:54.000
End	IEE+CDS 00001461:00:0		99-285/05:10:17.000		IEE+001/00:37:14.000
Duration	00000120:00:0		000/02:01:20.000		000/02:01:20.000
Top Label	24IUECLIPS01-				
Bottom Label	(real-time)				
Plot Key	UVS	Type	SCI		
CDS Bytes	258	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No
<b>Observation Objective</b>					
<p>24IUECLIPS01: satellite aurora observation when Io is in eclipse and, where possible, will be compared to SSI images of Io in eclipse. In particular, the removal of scattered sunlight for these NUV observations will potentially reveal new information about Jupiter's magnetospheric and energetic interactions with the Io atmosphere and surface. Species of interest include S, O, H.</p> <p>Full N/N scan, position 0                  Body center pointing                  3 flushes                  ridealong with SSI for eclipse image</p> <p>Rj = 17.8-18.8</p> <p>BTG=0.053136 MBTG 3 flushes</p> <p>Eclipse start: 99-285/03:04:36</p>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384CE	00	00:00	COMMENT UVS RIM 0		
157CE	38	03:00	CMDRS PLAN_DUR = 117 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		04:00	1 UVN:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,ON,OFF,ON,OFF,NOOVR,1,00,9C,00,00		
		120:00	117 OFF:07,SCAN,NORM,NORM,NORM,SAME,0,ON,OFF,OFF,OFF,OFF,NOOVR,1,00,9C,00,00		
349CU	28	03:69	UVFLSH DISCRD,UVS		
165CE	54	04:00	TARGET TMC body center (RA/Dec = 81.21/25.33) (4 RIM		
			pos_slw_alloc,plan_dur=41:00)		
349CV	28	45:69	UVFLSH PACKET,UVS (1)		
165IT	00	47:00	TARGET TMC body center (RA/Dec = 83.26/25.29) (1 RIM pos_slw_alloc) SSI eclipse		
349CW	28	54:69	UVFLSH DISCRD,UVS		
165CF	54	55:00	TARGET TMC body center (RA/Dec = 83.76/25.43) (0:46:0		
			pos_slw_alloc,plan_dur=64:00)		
349EE	00	86:69	UVFLSH PACKET,BOTH (2) (EUV torus and UVS Io eclipse)		
349CV	28	119:69	UVFLSH PACKET,UVS (3)		

UVS NOON ANSA

ACTIVITY ID: 24TU24NANS02-

START TIME: 99-285/05:33:32.333

Activity ID: Orbit 24		OAPEL TU24NANS		SeqNo 02-	
Title	UVS NOON ANSA			Instrument	UVS
Requestor	UVS-SWG/W. SWEET X30523	Team	UVS	Working Group	MWG
Time System	CDS	Load ID	24A	Calendar Date	10/12/99
				Week	93
Start	IEE+CDS 00001484:00:0		99-285/05:33:32.333	IEE+001/01:00:29.333	
End	IEE+CDS 00002774:00:0		99-286/03:17:52.333	IEE+001/22:44:49.333	
Duration	00001290:00:0		000/21:44:20.000	000/21:44:20.000	
Top Label	24TU24NANS02-				
Bottom Label	(real-time)				
Plot Key	UVS	Type	SCI		
CDS Bytes	65	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No
<b>Observation Objective</b>					
<div style="border: 1px solid black; padding: 5px;"> <p>24TU24NANS02: Io torus observation with the EUV and UVS continues the morphological study of the Io torus and provides the basis for a long term comparison between prime mission and GMM datasets over 4 years as well as asymmetries between dawn (prime mission) and dusk (GMM) torus ansae.</p> <p>UVS CONFIG: N/G 22-step</p> <p>Rj = 19.0</p> <p>BTG=0.389664 MBTG 22 flushes</p> <p>Note: Baseline initiate PRK at 99-285/05:43:00.000 means that no PPB, RPB needed.</p> </div>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
157EB	38	03:00	CMDRS PLAN_DUR = 1287 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		04:00	1 UVN:D3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, ON, ON, ON, OFF, NOOVR, 1, D5, 4E, 05, 63		
		1290:00	1287 OFF: 07, SCAN, NORM, NORM, NORM, SAME, 0, ON, OFF, OFF, OFF, OFF, NOOVR, 1, 00, 9C, 00, 00		
165EB	27	04:00	TARGET [CN 90.00, CK 281.2] (RA/Dec = 122.47/22.69) Pos_slw_alloc=4:00:0		