

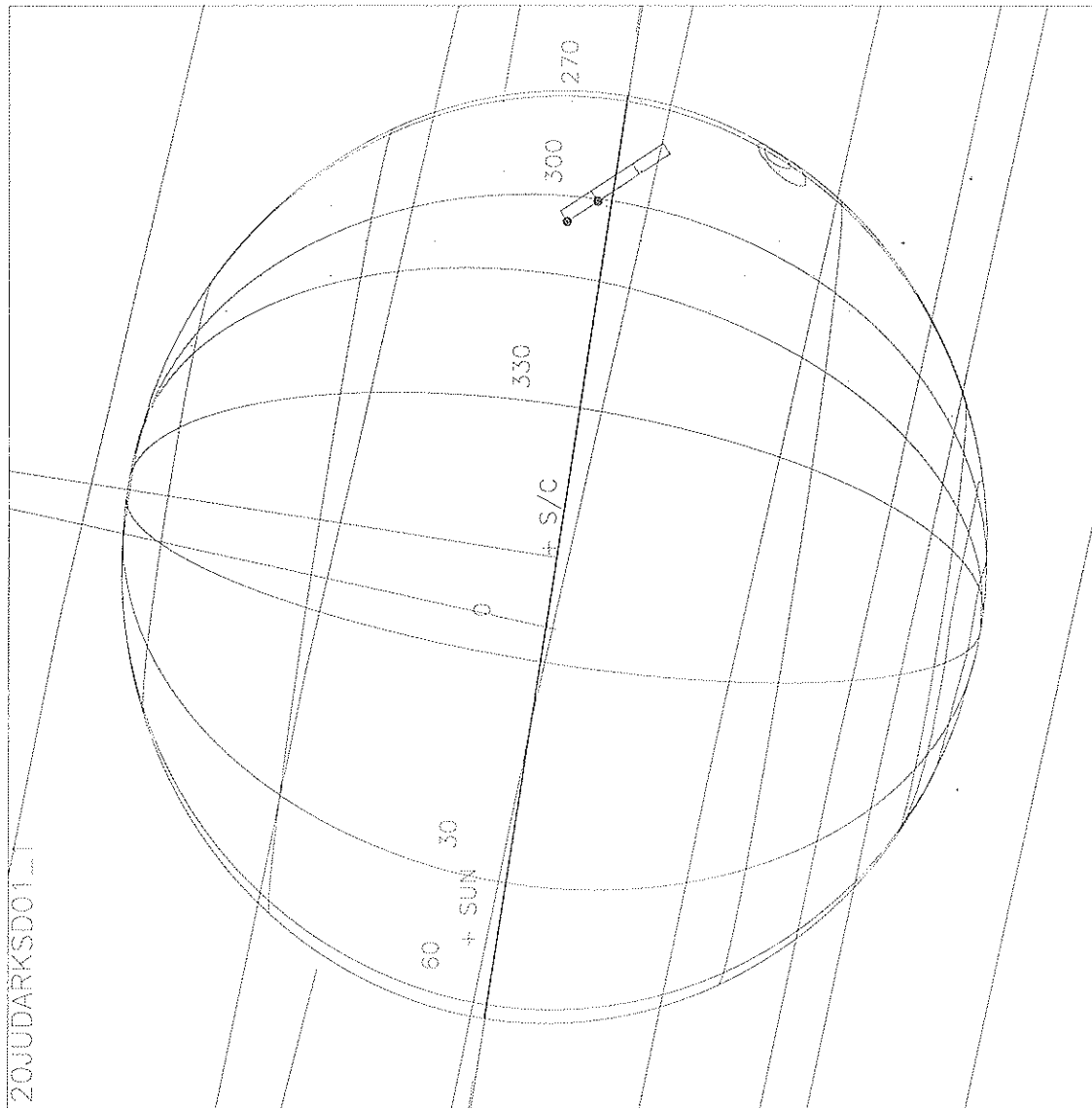
NOTE: SLIT ORIENTATION  
ON GRAPHICS IS INCORRECT;  
SLIT CENTER LOCATION IS  
CORRECT. ALIGN SLIT WITH  
N/S AXIS.

KES

Activity ID: Orbit 20		OAPEL JUDARKSD		SeqNo 01-	
Title	Darkside Lyman-alpha			Instrument	UVS
Requestor	UVS-AWG/W.KENTTOBISKA	Team	UVS	Working Group	AWG
Time System	CDS	Load ID	20A	Calendar Date	05/04/99
				Week	70
Start	JEE+CDS 00001161:00:0		99-124/12:34:30.800		JEE+000/19:33:54.000
End	JEE+CDS 00001195:00:0		99-124/13:08:53.466		JEE+000/20:08:16.666
Duration	00000034:00:0		000/00:34:22.666		000/00:34:22.666
Top Label	20JUDARKSD01-				
Bottom Label	realtime				
Plot Key	UVS	Type	SCI		
CDS Bytes	286	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No
<b>Observation Objective</b>					
<p>Observe equatorial Lyman-a on Jupiter's darkside to determine long-term changes as a function of System III longitude from charged particle impact upon thermospheric hydrogen. Without the effect of sunlight, H emission variations result from magnetospheric plasma interaction and dynamical mixing from lower layers. This is a real-time observation for 1/2 hour using a G/G Lyman-a 88 step 2 position miniscan at a distance from Jupiter = 15.2 Rj.</p> <p>MBTG = 0.017712 26 RIMS integration time</p> <p>GEM Objective Phase 1 - Magnetospheric interactions</p>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384AA	00	00:00	COMMNP UVS RIM 0		
157AA	122	03:00	CMDRS PLAN_DUR = 31 RIMS; EST_UVS_CMDS = 8 (34UVS)		
		04:00	1 UVG:DF, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 2C, 7D, 00, 2C		
		11:00	8 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
		13:00	10 UVG:DF, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 2C, 7D, 00, 2C		
		23:00	20 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
		24:00	21 UVG:DF, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 2C, 7D, 00, 2C		
		27:00	24 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
		28:00	25 UVG:DF, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 2C, 7D, 00, 2C		
		34:00	31 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
349AA	28	03:69	UVFLSH DISCRD, UVS		
165AA	27	04:00	TARGET Lat/Lon = 0/296; (RA/Dec = 63.54/23.36)		
165AB	27	13:00	TARGET Lat/Lon = 0/301; (RA/Dec = 63.90/23.42)		
165AC	27	24:00	TARGET Lat/Lon = 0/307; (RA/Dec = 64.33/23.49)		
165AD	27	28:00	TARGET Lat/Lon = 0/309; (RA/Dec = 64.49/23.52)		
349AB	28	33:69	UVFLSH PACKET, UVS		

Tue Mar 30 16:01:49 1999

20JUDARKSD01...



Start UTC TIME : 1999-124 // 12:38:28.321

No End Time :

Start CLK : 1/04980543:00:0:0

Target Body : JUPITER

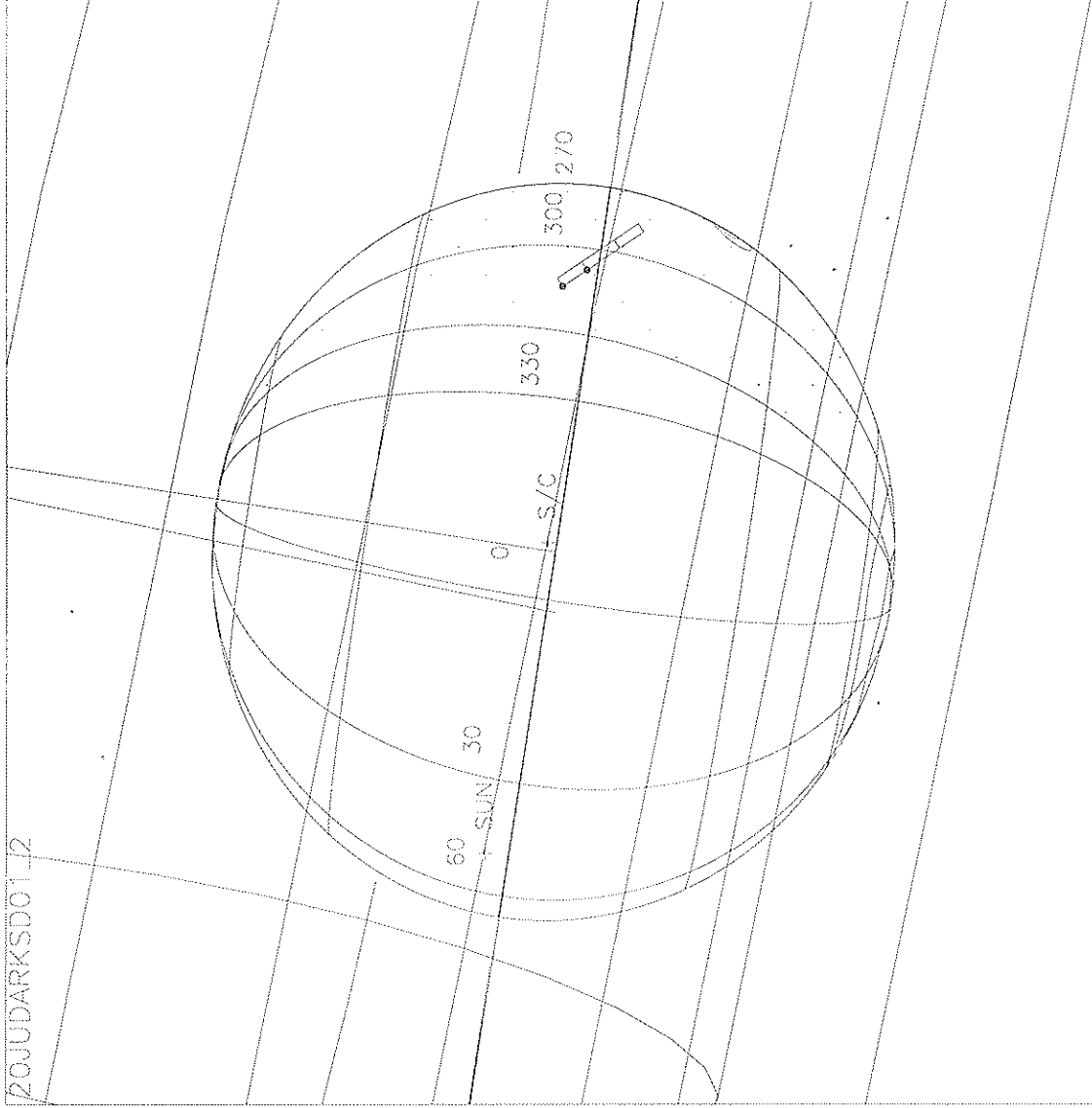
Target Ra/Dec : 66.83 / 23.88 Deg

S/C to Body Center : 1090102. Km ( 15.247882 Rj )

Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Tue Mar 30 16:05:52 1999

20JUDARKSD01.L2

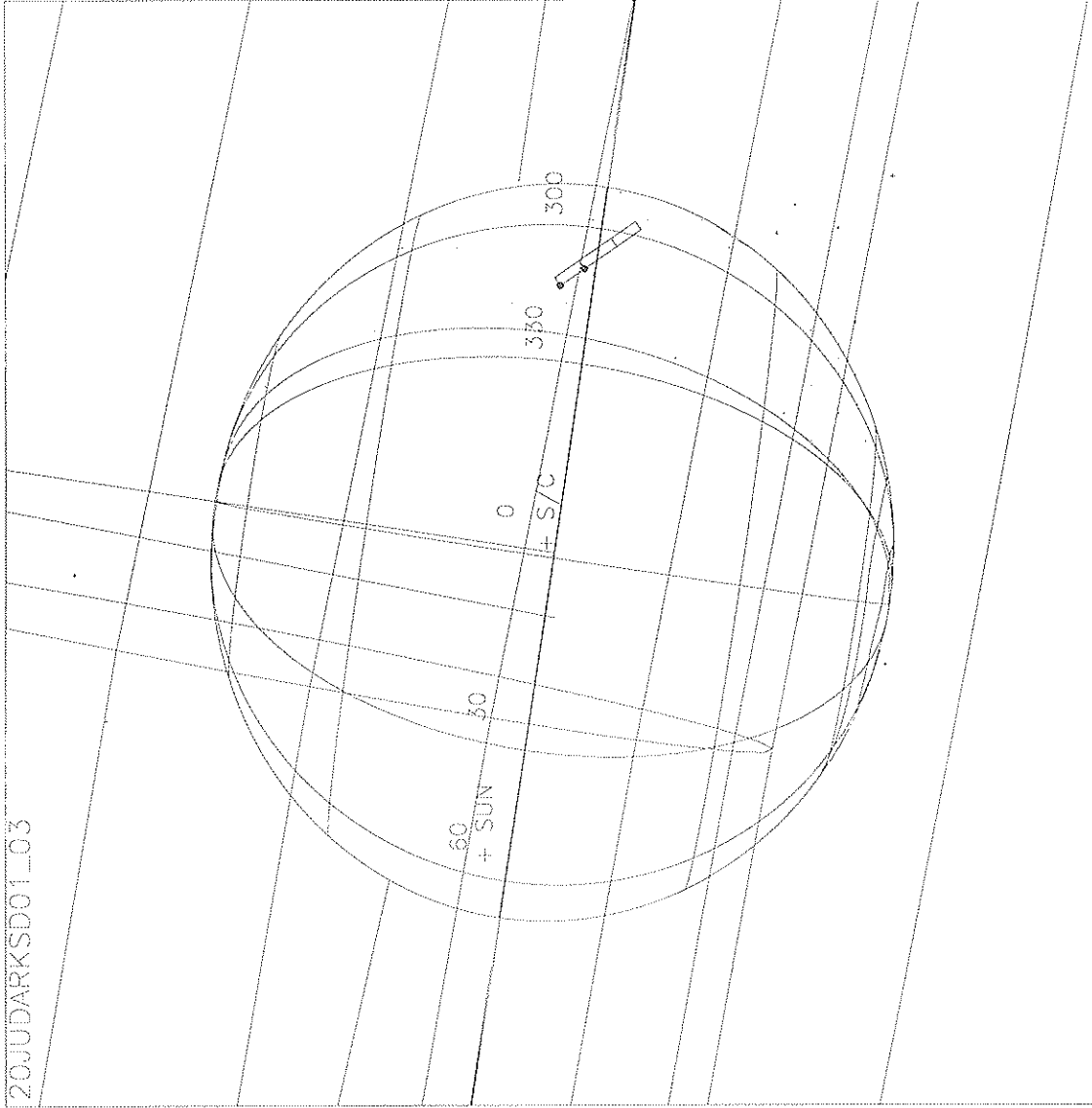


Start UTC TIME : 1999-124 // 12:47:34.321  
No End Time :  
Start SCLK : 1/04980552:00:0:0

Target Body : JUPITER  
Target Ra/Dec : 67.19 / 23.93 Deg  
S/C to Body Center : 1094866. Km ( 15.314527 RJ )  
Z-axis Pointing ( Ra / Dec ) : 188.35 / -3.06 Deg

Tue Mar 30 16:07:14 1999

20JUDARKSD01\_03

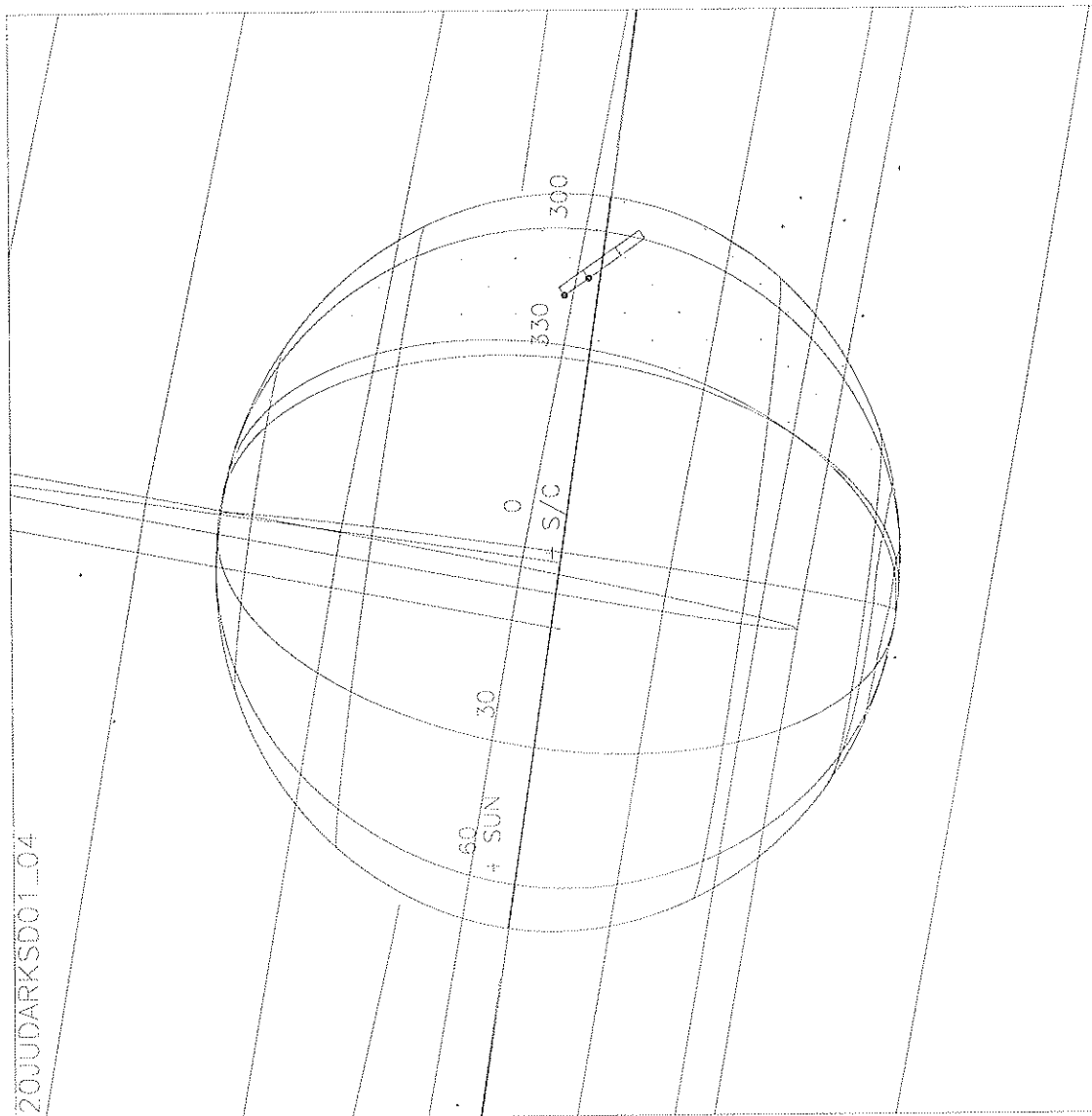


Start UTC TIME : 1999-124 // 12:58:41.554  
No End Time :  
Start SCLX : 1/04980553:00:00

Target Body : JUPITER  
Target Ro/Dec : 67.62 / 23.99 Deg  
S/C to Body Center : 1100696. Km ( 15.396075 Rf )  
Z-axis Pointing ( Ro / Dec ) : 198.35 / -3.68 Deg

Tue Mar 30 16:08:23 1999

ZOUJUDARKSD01\_04



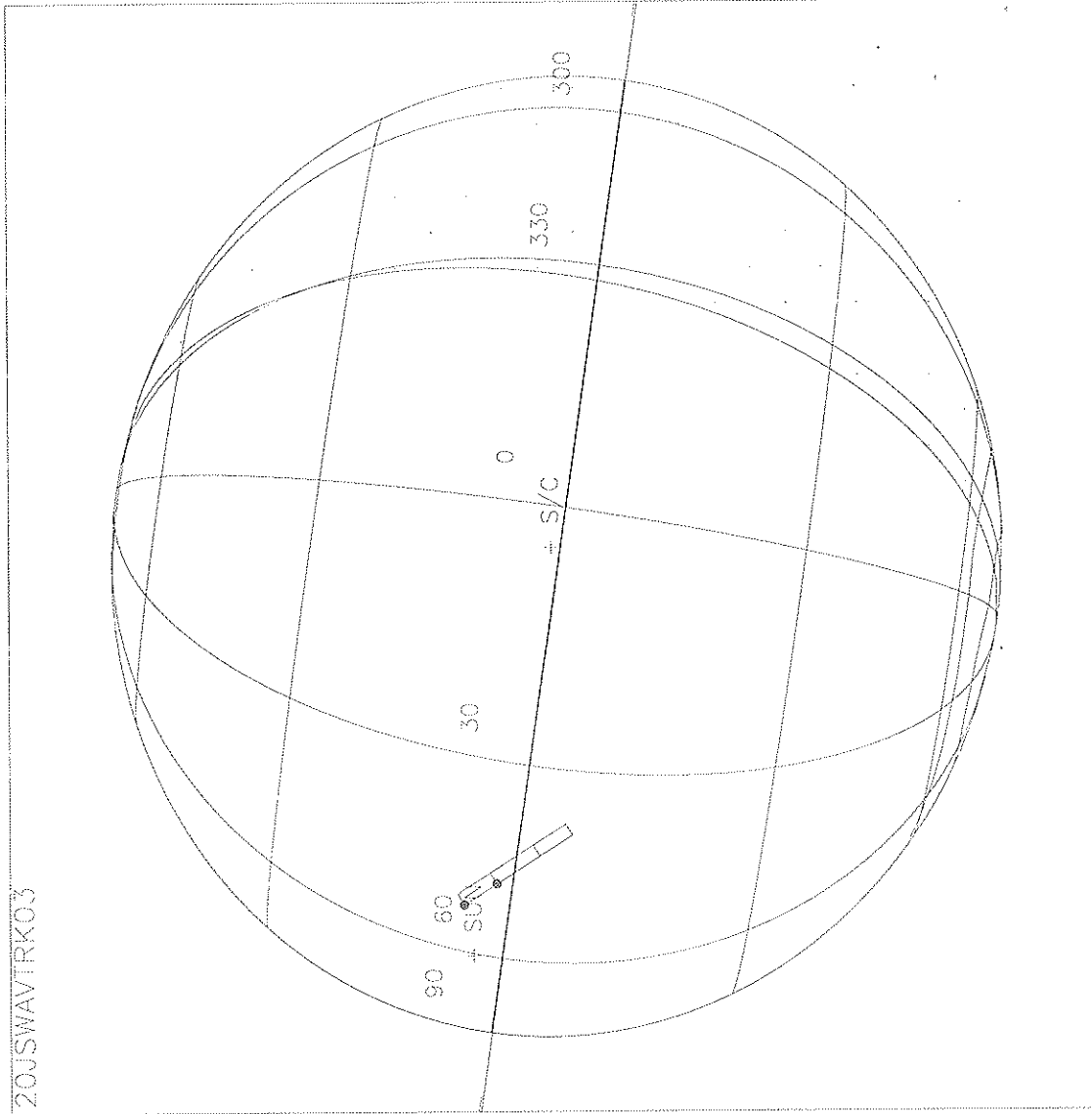
Start UTC TIME : 1999-124 // 13:02:44.320  
No End Time :  
Start SCLK : 1/04950557:00:0:0

Target Body : JUPITER  
Target Ra/Dec : 67.78 / 24.01 Deg  
S/C to Body Center : 1102918. Km ( 15.425752 Rj )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.05 Deg

Activity ID:	Orbit 20	OAPEL JUWAVTRK	SeqNo	03-
Title	UVS AWG feature track		Instrument	UVS
Requestor	UVS-AWG/W. KENT TOBISKA	Team	UVS	Working Group
				AWG
Time System	CDS	Load ID	20A	Calendar Date
				05/04/99
Week	70			
Start	JEE+CDS 00001195:00:0		99-124/13:08:53.466	JEE+000/20:08:16.666
End	JEE+CDS 00001199:00:0		99-124/13:12:56.133	JEE+000/20:12:19.333
Duration	00000004:00:0		000/00:04:02.667	000/00:04:02.667
Top Label	20JUWAVTRK03-			
Bottom Label	realtime			
Plot Key	UVS	Type	SCI	
CDS Bytes	66	Report Options	BOTH	Scan Platform
				Yes
CDS Source	OAP	Spin State	DUAL	DMS
				Yes
<b>Observation Objective</b>				
<div style="border: 1px solid black; width: 200px; height: 150px; display: inline-block; vertical-align: top;"></div> <p>20JUWAVTRK03: AWG feature track with SST to look at equatorial waves.</p> <p>Rj = 15.3</p> <p>UVS configuration: full F/F scans.</p> <p>MBTG = 0.017712</p>				
<b>Design Detail</b>				
PSID	CDS	RIM	COMMAND PARAMETERS	
384AC	00	00:00	COMMNT UVS RIM 0	
157AC	38	00:00	CMDRS PLAN_DUR = 4 RIMS; EST_UVS_CMDS = 2 (34UVS)	
		01:00	1 UVF:07,SCAN,NORM,NORM,NORM,SAME,0,ON,OFF,OFF,ON,OFF,NOOVR,1,00,9C,00,00	
		04:00	4 OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00	
349AB	00	-00:69	UVFLSH (previous observation zeros buffer)	
165KY	00	01:00	TARGET Lat/Lon = 0/43.5; use SST target	
349JB	28	03:69	UVFLSH PACKET,UVS	

Tue Mar 30 16:10:00 1999

ZOJSWAVTRK03



Start UFC.TIME : 1999-12- // 13:09:46.987

No End Time :

Start SCLK : 1/04980574:00:0:0

Target Body : JUPITER

Target Ra/Dec : 68.05 / 24.05 Deg

S/C to Body Center : 1106533. Km ( 15.477718 RJ )

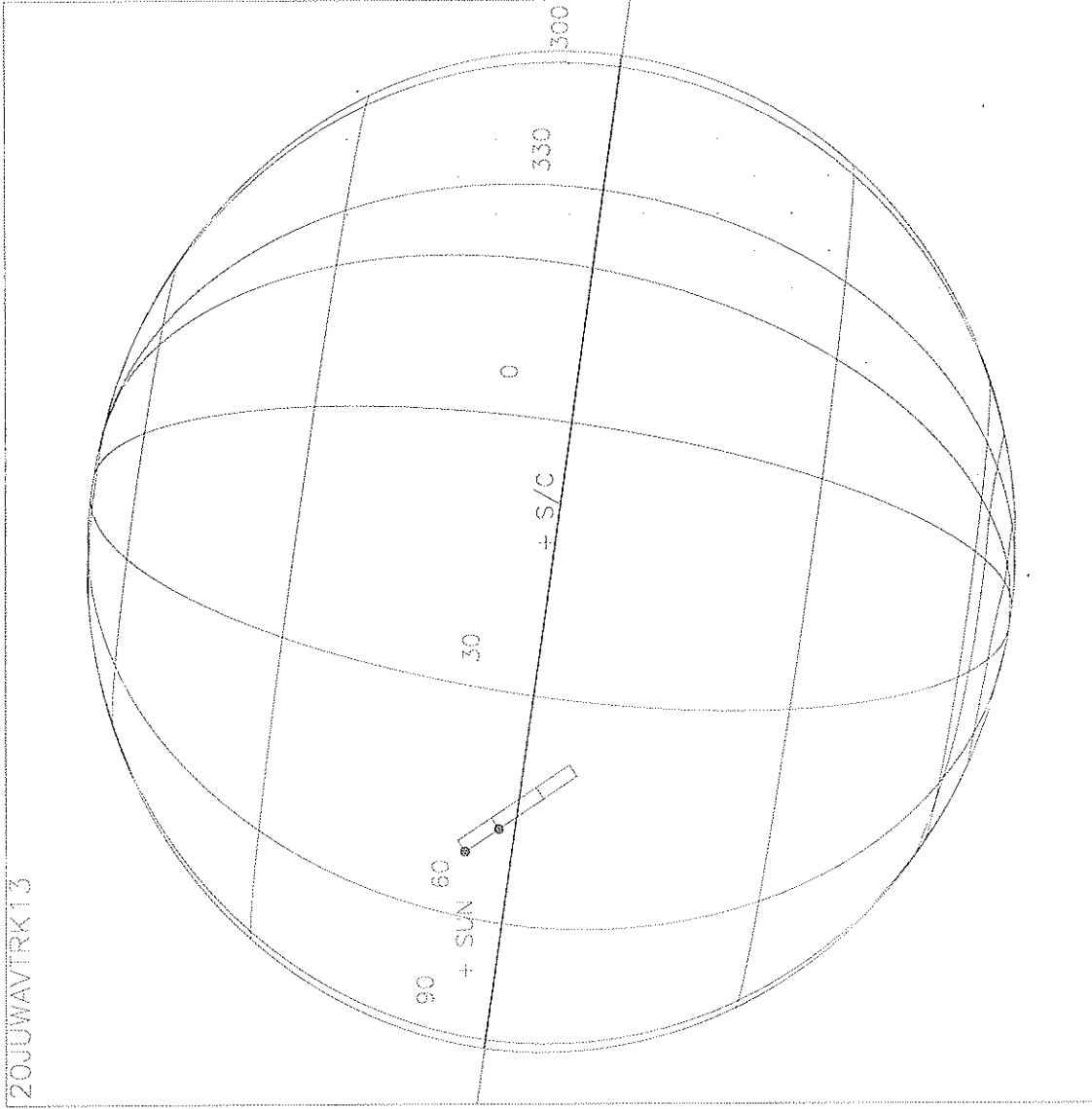
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg



Activity ID: Orbit 20		OAPEL JUWAVTRK		SeqNo 13-	
Title	UVS AWG feature track			Instrument	UVS
Requestor	UVS-AWG/W. KENT TOBISKA	Team	UVS	Working Group	AWG
Time System	CDS	Load ID	20A	Calendar Date	05/04/99 Week 70
Start	JEE+CDS 00001210:00:0		99-124/13:24:03.466		JEE+000/20:23:26.666
End	JEE+CDS 00001214:00:0		99-124/13:28:06.133		JEE+000/20:27:29.333
Duration	00000004:00:0		000/00:04:02.667		000/00:04:02.667
Top Label	20JUWAVTRK13-				
Bottom Label	realtime				
Plot Key	UVS	Type	SCI		
CDS Bytes	94	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes
<b>Observation Objective</b>					
<div style="border: 1px solid black; width: 150px; height: 100px; display: inline-block; vertical-align: top;"></div> <p>20JUWAVTRK13: AWG feature track with SSI to look at equatorial waves.</p> <p>Rj = 15.4</p> <p>UVS configuration: full F/F scans.</p> <p>MBTG = 0.017712</p>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384AD	00	00:00	COMMNT UVS RIM 0		
157AD	38	00:00	CMDRS PLAN_DUR = 4 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		01:00	1 UVF:07,SCAN,NORM,NORM,NORM,SAME,0,ON,OFF,OFF,ON,OFF,NOOVR,1,00,9C,00,00		
		04:00	4 OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00		
349JC	28	00:69	UVFLSH DISCRD,UVS		
165LY	00	01:00	TARGET Lat/Lon = 0/43.43; use SSI target		
349JD	28	03:69	UVFLSH PACKET,UVS		

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ZOUJWAVTRK13



Start UTC TIME : 1999-124 // 13:24:58.985

No End Time :

Start SCLK : 1/04980588:00:0:0

Target Body : JUPITER

Target Ro/Dec : 68.63 / 24.12 Deg

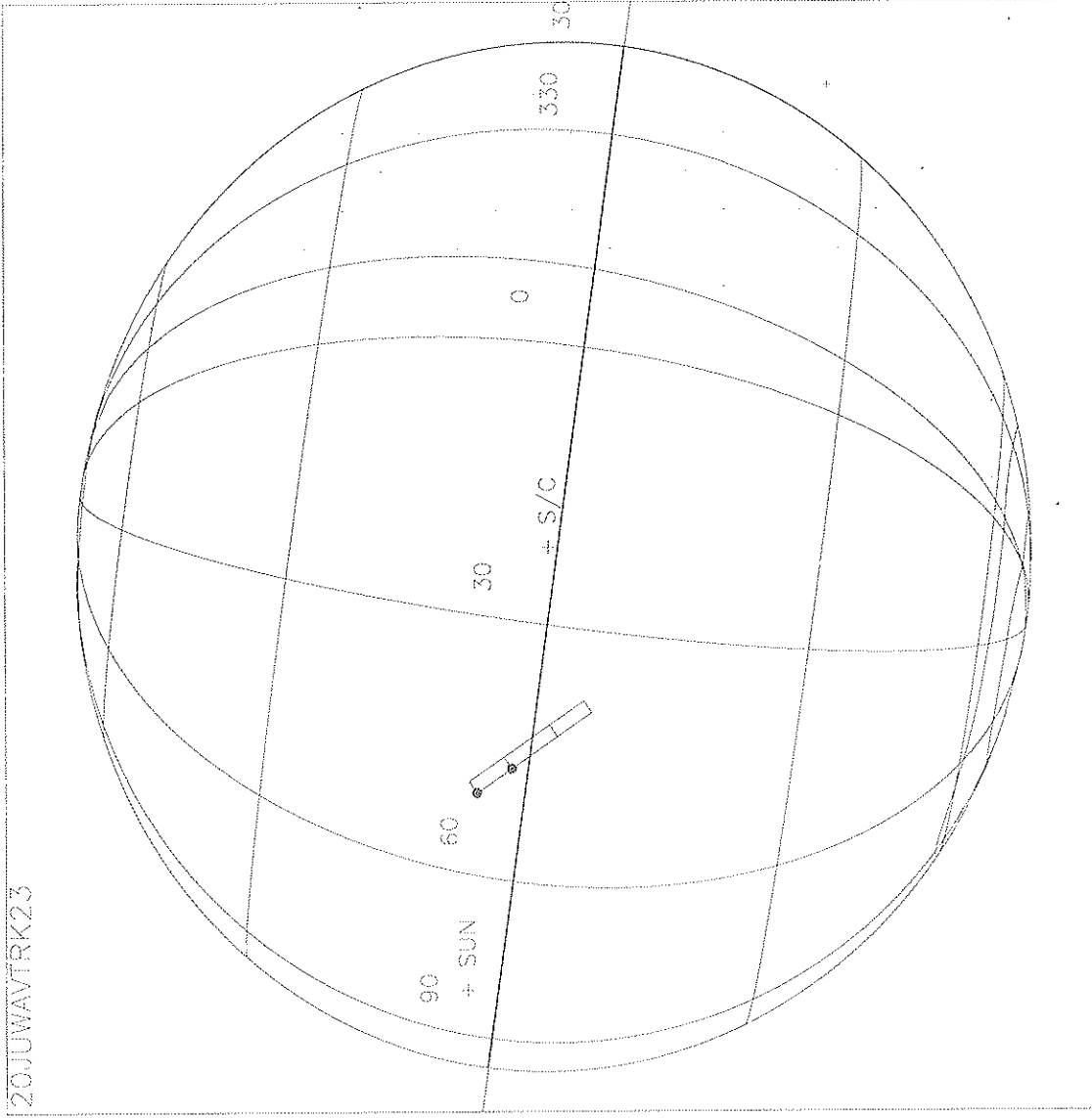
S/C to Body Center : 114503. Km ( 15.589196 Rj )

Z-axis Pointing ( Ro / Dec ) : 198.35 / -3.05 Deg

<b>Activity ID:</b> Orbit 20	<b>OAPEL JUWAVTRK</b>		<b>SeqNo</b> 23-
<b>Title</b>	UVS AWG feature track	<b>Instrument</b>	UVS
<b>Requestor</b>	UVS-AWG/W. KENT TOBISKA	<b>Team</b> UVS	<b>Working Group</b> AWG
<b>Time System</b> CDS	<b>Load ID</b> 20A	<b>Calendar Date</b> 05/04/99	<b>Week</b> 70
<b>Start</b>	JEE+CDS 00001225:00:0	99-124/13:39:13.466	JEE+000/20:38:36.666
<b>End</b>	JEE+CDS 00001229:00:0	99-124/13:43:16.133	JEE+000/20:42:39.333
<b>Duration</b>	00000004:00:0	000/00:04:02.667	000/00:04:02.667
<b>Top Label</b>	20JUWAVTRK23-		
<b>Bottom Label</b>	realtime		
<b>Plot Key</b>	UVS	<b>Type</b>	SCI
<b>CDS Bytes</b>	94	<b>Report Options</b>	BOTH
<b>CDS Source</b>	OAP	<b>Spin State</b>	DUAL
		<b>Scan Platform</b>	Yes
		<b>DMS</b>	Yes
<b>Observation Objective</b>			
	20JUWAVTRK23: AWG feature track with SSI to look at equatorial waves.		
	Rj = 15.5		
	UVS configuration: full F/F scans.		
	MBTG = 0.017712		
<b>Design Detail</b>			
PSID	CDS	REH	COMMAND PARAMETERS
384AE	00	00:00	COMMNT UVS RIM 0
157AE	38	00:00	CMDRS PLAN_DUR = 4 RIMS; EST_UVS_CMDS = 2 (34UVS)
		01:00	1 UVF:07,SCAN,NORM,NORM,NORM,SAME,0,ON,OFF,OFF,ON,OFF,NOOVR,1,00,9C,00,00
		04:00	4 OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00
349JE	28	00:69	UVFLSH DISCRD,UVS
165LD	00	01:00	TARGET Lat/Lon = 0/43.36; use SSI target
349JF	28	03:69	UVFLSH PACKET,UVS

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20JUWAVTRK23



Start UIC\_TIME : 1999-124 // 13:40:08.985  
No End Time :  
Start SCLK : 1/04980504:00:00

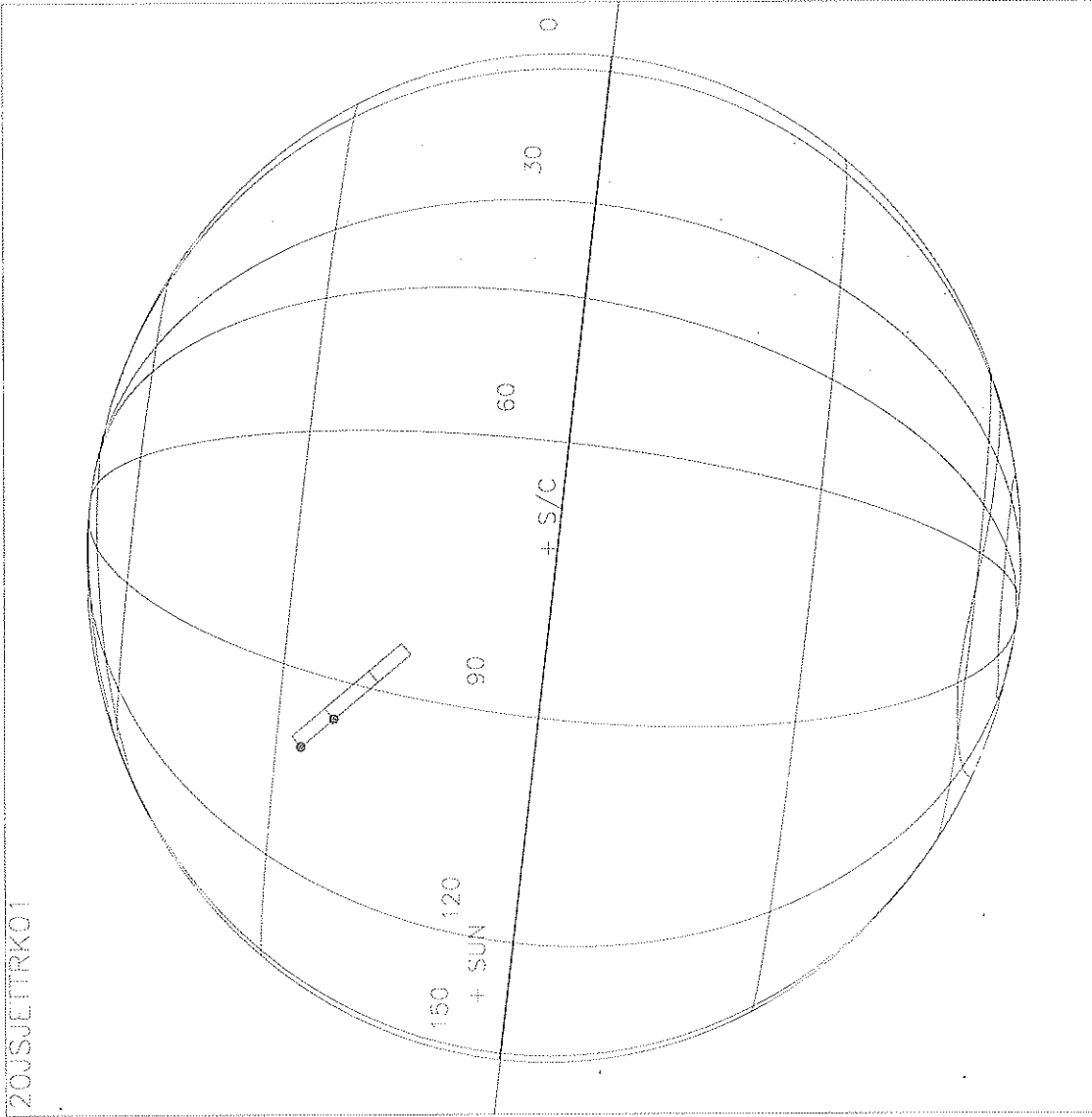
Target Body : JUPITER  
Target Ra/Dec : 69.20 / 24.20 Deg  
S/C to Body Center : 1122484. Km ( 15.760832 RJ )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg



Activity ID: Orbit 20		OAPEL JUJETTRK		SeqNo 01-	
Title	UVS AWG feature track			Instrument	UVS
Requestor	UVS-AWG/W. KENT TOBISKA	Team	UVS	Working Group	AWG
Time System	CDS	Load ID	20A	Calendar Date	05/04/99 Week 70
Start	JEE+CDS 00001311:00:0		99-124/15:06:10.800	JEE+000/22:05:34.000	
End	JEE+CDS 00001315:00:0		99-124/15:10:13.466	JEE+000/22:09:36.666	
Duration	00000004:00:0		000/00:04:02.666	000/00:04:02.666	
Top Label	20JUJETTRK01-				
Bottom Label	realtime				
Plot Key	UVS	Type	SCI		
CDS Bytes	94	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes
<b>Observation Objective</b>					
	20JUJETTRK01: AWG feature track with SSI to look at high speed jets.				
	Rj = 16.2				
	UVS configuration: full F/F scans.				
	MBTG = 0.017712				
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384AH	00	00:00	COMNPT UVS RIM 0		
157AH	38	00:00	CMDRS PLAN_DUR = 4 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		01:00	1 UVF:07,SCAN,NORM,NORM,NORM,SAME,0,ON,OFF,OFF,ON,OFF,NOOVR,1,00,9C,00,00		
		04:00	4 OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00		
349JG	28	00:69	UVFLSH DISCRD,UVS		
165KS	00	01:00	TARGET Lat/Lon = 23.8/91.4; (RA/Dec = TBD); use SSI target		
349JH	28	03:69	UVFLSH PACKET,UVS		

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20JSJETTRK01



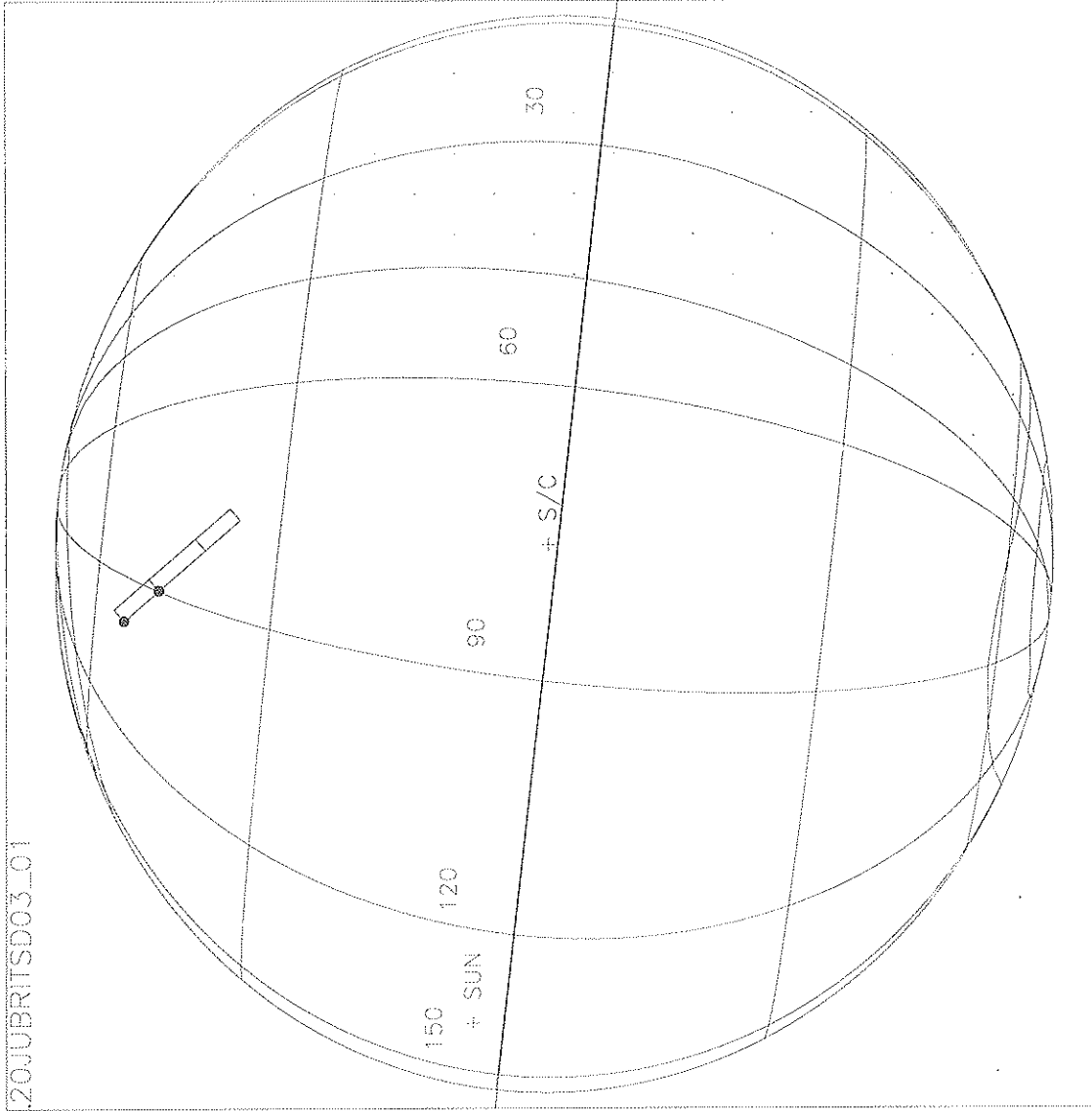
Start UTC TIME : 1999-124 // 15:07:06.316  
No End Time :  
Start SCLK : 1/04980680:00:0:0

Target Body : JUPITER  
Target Ra/Dec : 72.34 / 24.56 Deg  
S/C to Body Center : 116841. Km ( 16.343365 RJ )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Activity ID: Orbit 20		OAPEL JUBRITSD		SeqNo 03-	
Title	Brightside hydrocarbons			Instrument	UVS
Requestor	UVS-AWG/W. KENTTOBISKA	Team	UVS	Working Group	AWG
Time System	CDS	Load ID	20A	Calendar Date	05/04/99
				Week	70
Start	JEE+CDS 00001319:00:0		99-124/15:14:16.133		JEE+000/22:13:39.333
End	JEE+CDS 00001349:00:0		99-124/15:44:36.133		JEE+000/22:43:59.333
Duration	00000030:00:0		000/00:30:20.000		000/00:30:20.000
Top Label	20JUBRITSD03-				
Bottom Label	realtime				
Plot Key	UVS	Type	SCI		
CDS Bytes	360	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>Observe brightside hydrocarbon emissions to develop a statistically significant acetylene and ammonia spectrum at four latitudes. This study will help understand minor species chemistry related to dynamics in Jupiter's stratosphere/upper troposphere. Low photon count rates require substantial integration time. This is a realtime observation for 6.13 hours during the feature track window using either a G/G 176 step miniscan covering 1496-1755 Å or a G/G full scan at a distance from Jupiter = 16.4 R<sub>J</sub>. 4 observation latitudes are north high and mid lat, south mid and high lat. The lighting and view geometry is designed so that <math>1/\mu + 1/\mu_0 = 3.88</math>.</p> <p>MBTG = 0.017712; 26 RIMS integration time north high latitude; full-scans G/G GEM Objective Phase 2 - Jupiter atm. dynamics</p> </div>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384AI	00	00:00	COMMT UVS RIM 0		
157AI	122	00:00	CMDRS PLAN_DUR = 30 RIMS; EST_UVS_CMDS = 8 (34UVS)		
		01:00	1	UVG:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,ON,OFF,NOOVR,1,2C,9D,00,00	
		11:00	11	OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00	
		12:00	12	UVG:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,ON,OFF,NOOVR,1,2C,9D,00,00	
		15:00	15	OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00	
		16:00	16	UVG:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,ON,OFF,NOOVR,1,2C,9D,00,00	
		26:00	26	OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00	
		27:00	27	UVG:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,ON,OFF,NOOVR,1,2C,9D,00,00	
		30:00	30	OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00	
349KE	28	00:69	UVFLSH DISCRD,UVS		
165AN	27	01:00	TARGET Lat/Lon = 48/85.8 (RA/Dec = 72.70/27.06) [3.8779]		
117AN	37	02:00	CSMOS #_strip=2; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-2.1		
165AX	27	12:00	TARGET Lat/Lon = 48/91.6 (RA/Dec = 73.10/27.08) [3.8840]		
165AY	27	16:00	TARGET Lat/Lon = 48/94.0 (RA/Dec = 73.24/27.09) [3.8869]		
117AY	37	17:00	CSMOS #_strip=2; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-2.1		
165AZ	27	27:00	TARGET Lat/Lon = 48/100.6 (RA/Dec = 73.64/27.12) [3.8931]		
349KF	28	29:69	UVFLSH PACKET,UVS		

Tue Mar 30 20:13:24 1999

Z0JUBRITSD03\_01



Start UFC TIME : 1999-124 // 15:15:11.649

No End Time :

Start CLK : 1/04980698:00:0:0

Target Body : JUPITER

Target R<sub>o</sub>/Dec : 72.62 / 24.58 Deg

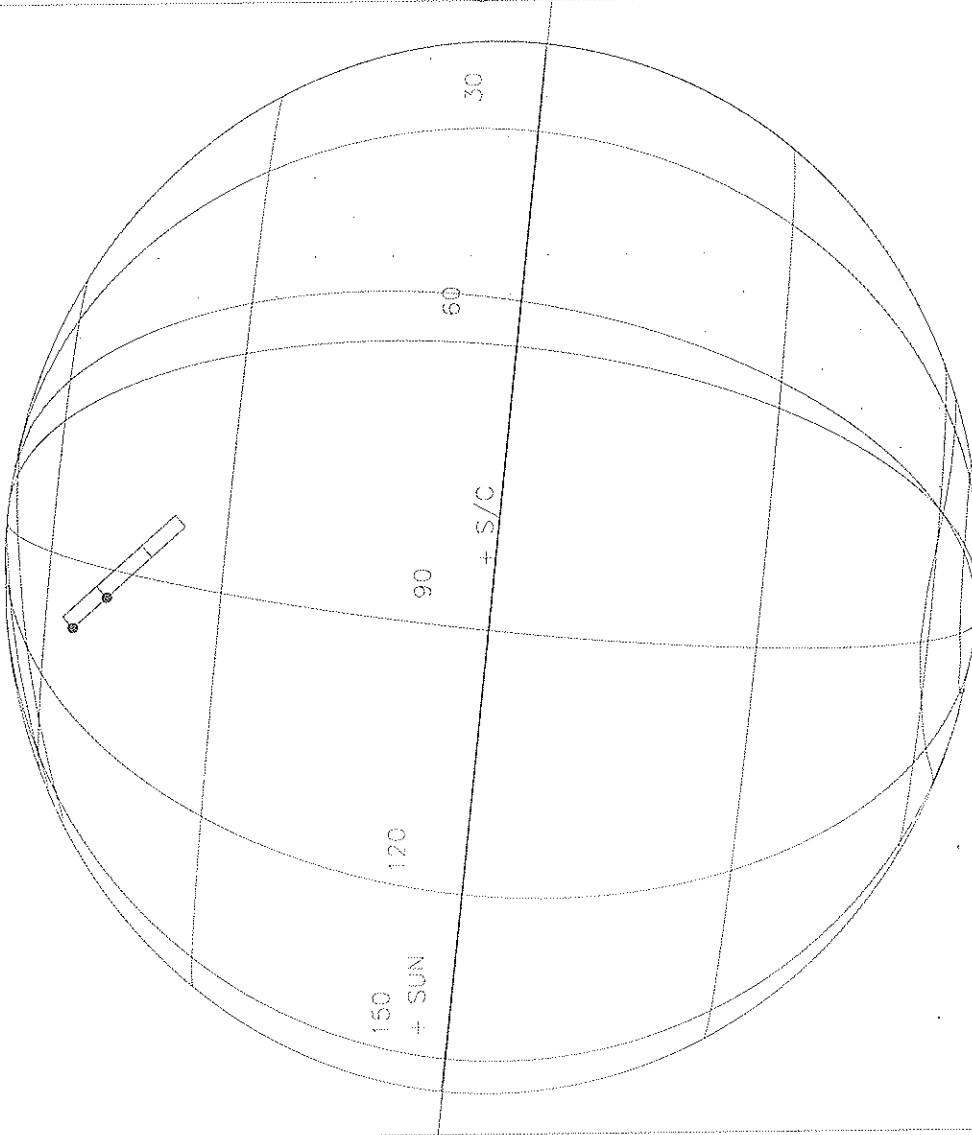
S/C to Body Center : 1172705. Km ( 16.403310 Rj )

Z-axis Pointing ( R<sub>o</sub> / Dec ) : 198.35 / -3.06 Deg



Tue Mar 30 20:15:38 1999

20JUBRITSD03\_02

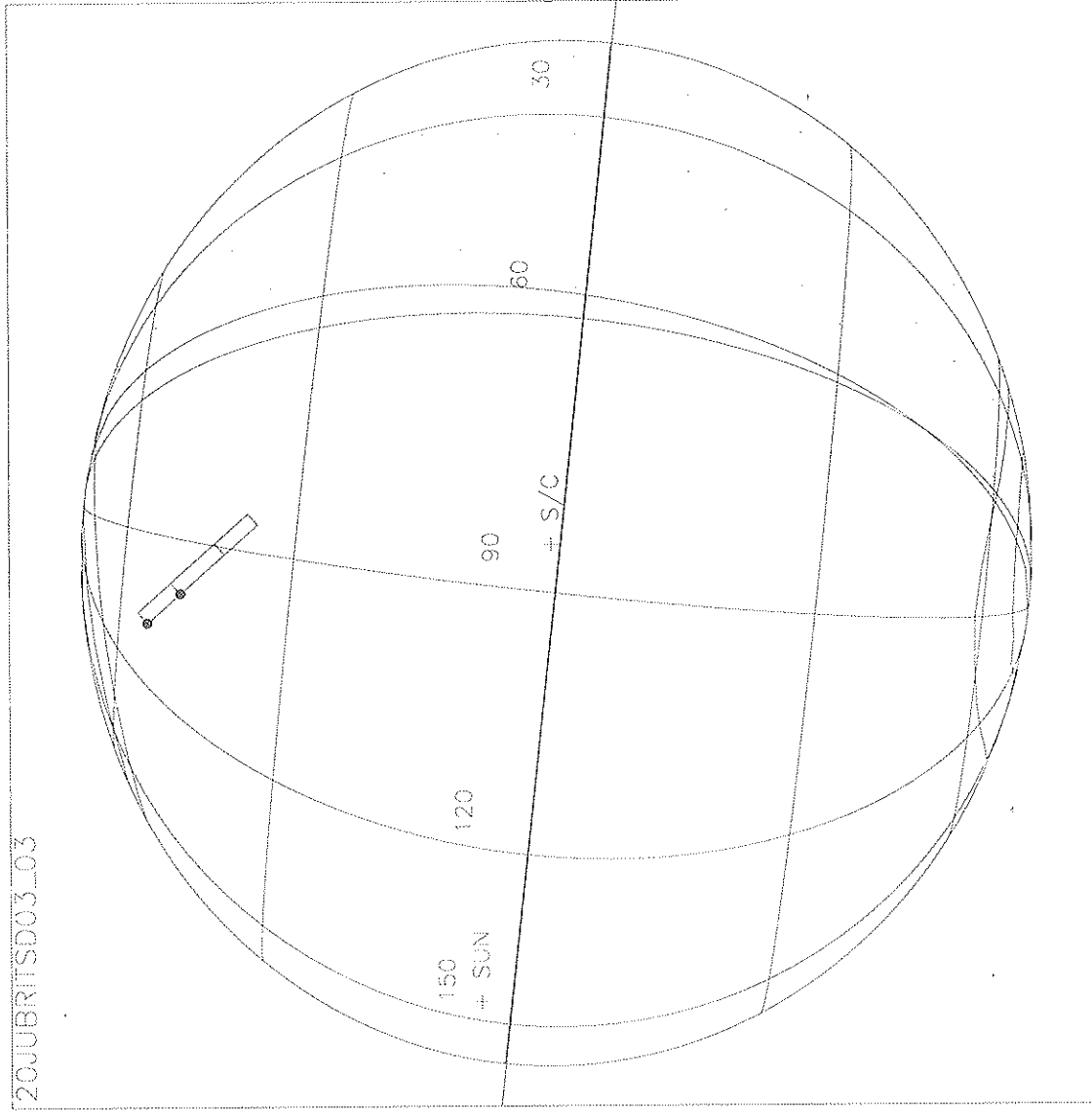


Start UTC\_TIME : 1999-124 // 15:26:18.982  
No End Time :  
Start SOLK : 1/04980709:00:00

Target Body : JUPITER  
Target Ra/Dec : 73.01 / 24.62 Deg  
S/C to Body Center : 1178601. Km ( 16.485771 RJ )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Tue Mar 30 20:20:26 1999

20JUBRITSD03\_03

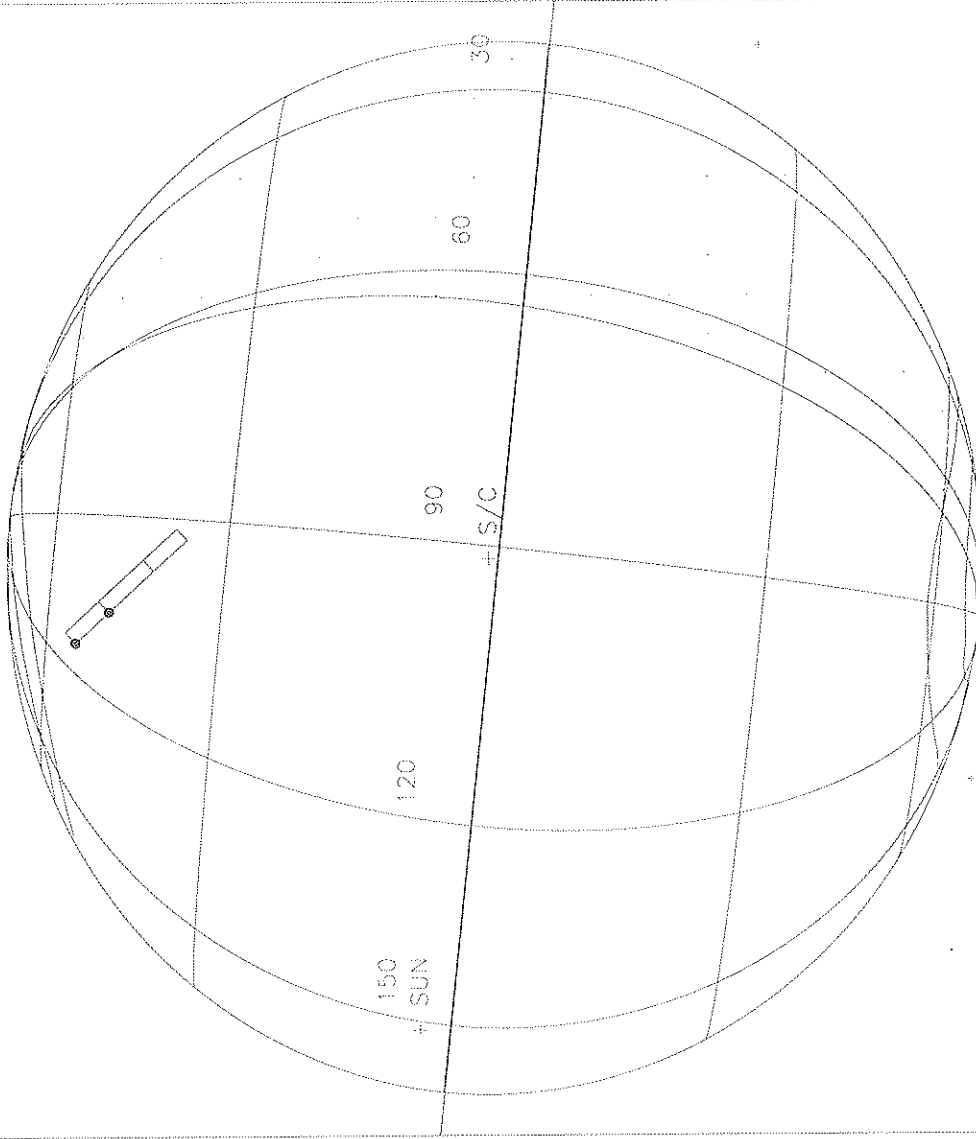


Start UTC TIME : 1999-124 // 15:30:21.649  
No End Time :  
Start SCLK : 1/04980713:00:0:0

Target Body : JUPITER  
Target Ra/Dec : 73.14 / 24.64 Deg  
S/C to Body Center : 1180745. Km ( 16.515767 Ri )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.05 Deg

Tue Mar 30 20:21:37 1999

20JUBRITSD03\_04



Start UTC\_TIME : 1999-124 // 15:41:28.981  
No End Time :  
Start SCLK : 1/04980724:00:00

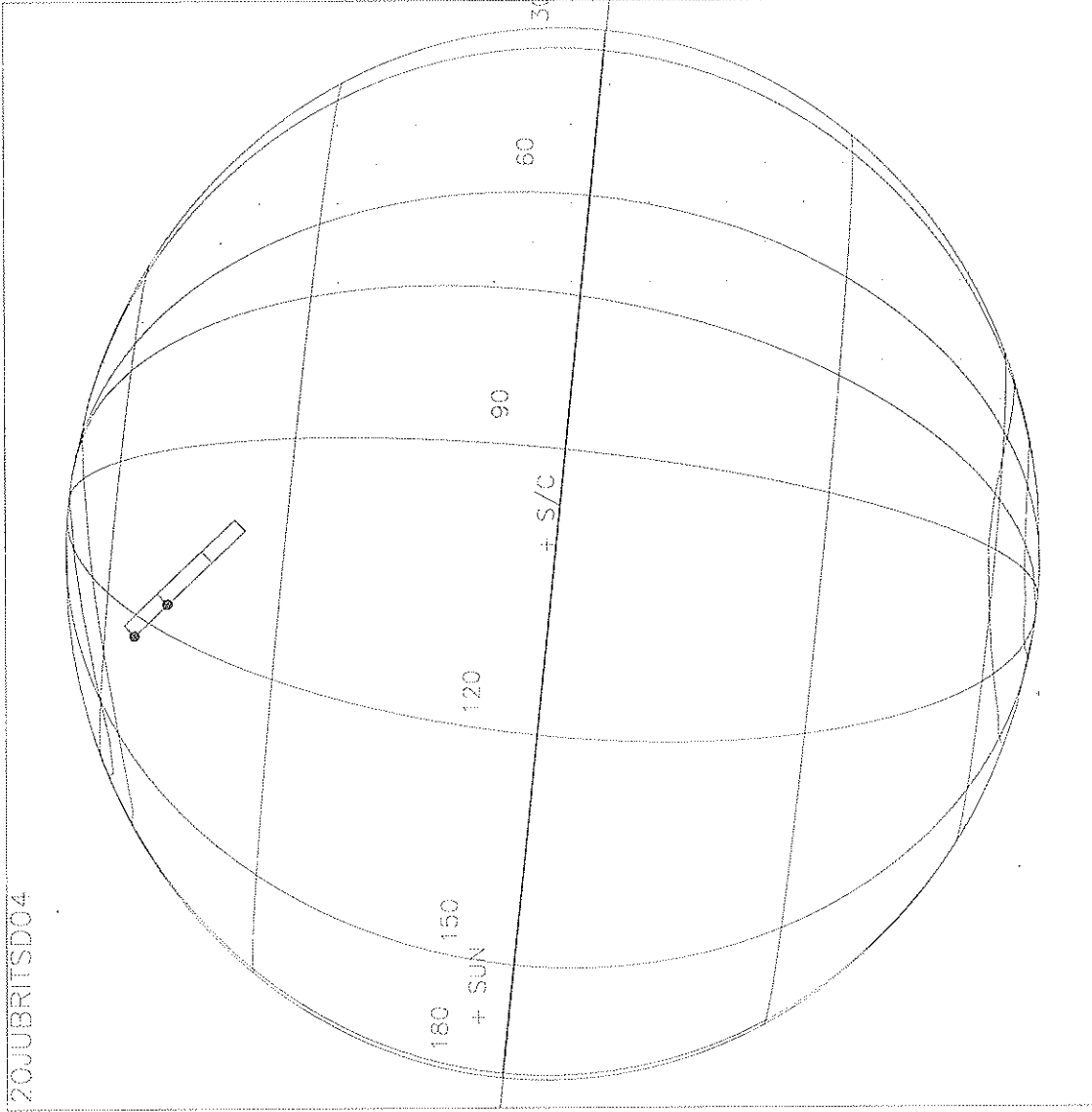
Target Body : JUPITER  
Target Ra/Dec : 73.52 / 24.67 Deg  
S/C to Body Center : 1186644 Km ( 16.588284 Ri )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg



Activity ID: Orbit 20		OAPEL JUBRITSD		SeqNo 04-	
Title	Brightside hydrocarbons			Instrument	UVS
Requestor	UVS-AWG/W. KENT TOBISKA	Team	UVS	Working Group	AWG
Time System	CDS	Load ID	20A	Calendar Date	05/04/99 Week 70
Start	JEE+CDS 00001360:00:0		99-124/15:55:43.466	JEE+000/22:55:06.666	
End	JEE+CDS 00001388:00:0		99-124/16:24:02.133	JEE+000/23:23:25.333	
Duration	00000028:00:0		000/00:28:18.667	000/00:28:18.667	
Top Label	20JUBRITSD04-				
Bottom Label	realtime				
Plot Key	UVS	Type	SCI		
CDS Bytes	158	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>Observe brightside hydrocarbon emissions to develop a statistically significant acetylene and ammonia spectrum at four latitudes. This study will help understand minor species chemistry related to dynamics in Jupiter's stratosphere/upper troposphere. Low photon count rates require substantial integration time. This is a realtime observation for 6.13 hours during the feature track window using either a G/G 176 step miniscan covering 1496-1755 Å or a G/G full scan at a distance from Jupiter = 16.7 R<sub>J</sub>. 4 observation latitudes are north high and mid lat, south mid and high lat. The lighting and view geometry is designed so that <math>1/\mu + 1/\mu_0 = 3.88</math>.</p> <p>MBTG = 0.017712; 27 RIMS integration time  north high latitude; 176-step mini-scan G/G  GEM Objective Phase 2 - Jupiter atm. dynamics</p> </div>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384AK	00	00:00	COMMNT UVS RIM 0		
157AK	38	00:00	CMDRS PLAN_DUR = 28 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		01:00	1 UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00		
		28:00	28 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
349KG	28	00:69	UVFLSH DISCRD, UVS		
165CB	27	01:00	TARGET Lat/Lon = 48/110.2 (RA/Dec = 74.20/27.15) [3.8752]		
117CB	37	02:00	CSHOS #_strip=6; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-2.3		
349KH	28	27:69	UVFLSH PACKET, UVS		

Thu Apr 1 00:30:52 1999

20JUBRITSD04



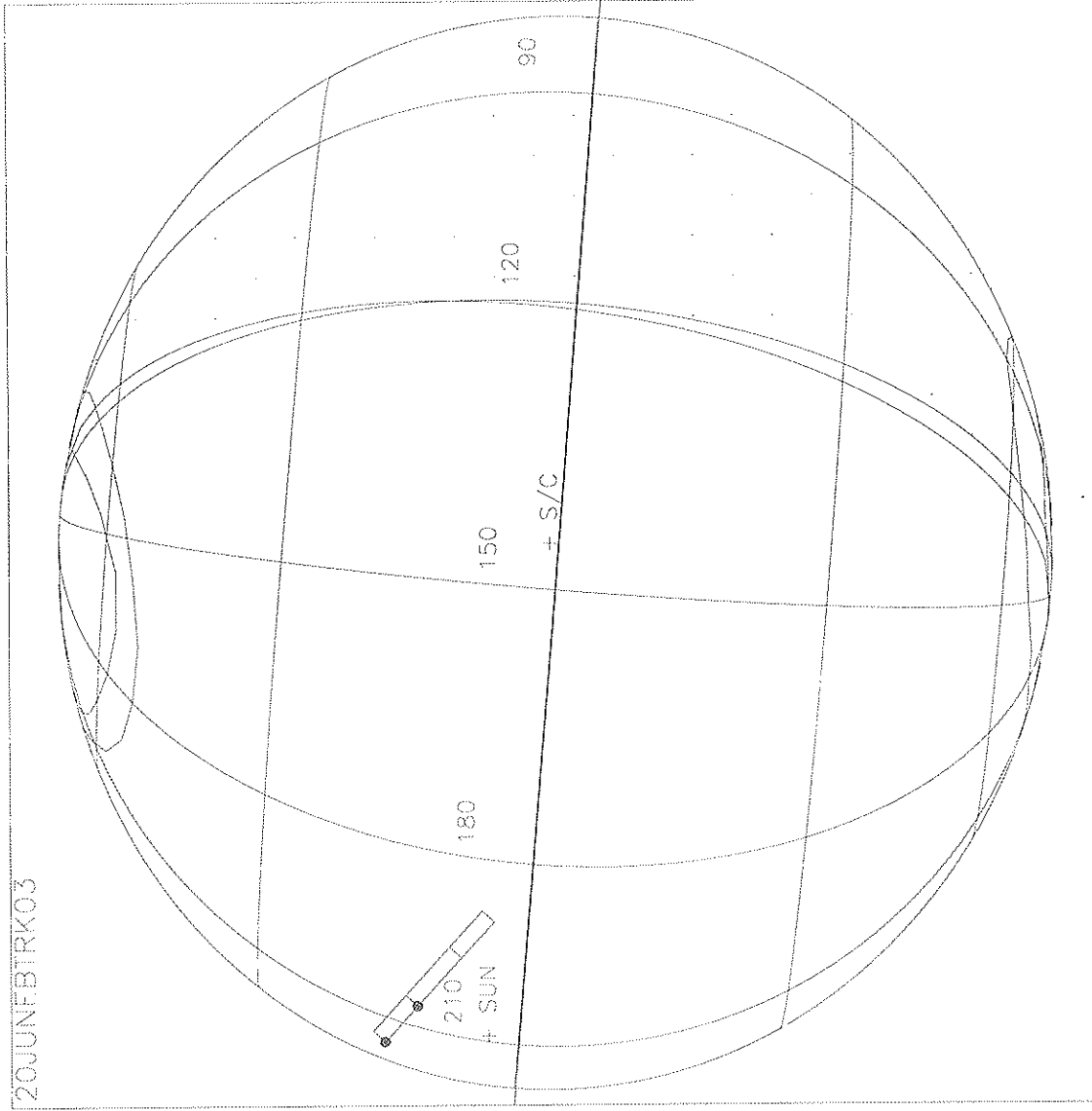
Start UTC\_TIME : 1999-124 // 15:56:38.981  
No End Time :  
Start SOLK : 1/04980739:00:0:0

Target Body : JUPITER  
Target Rc/Dec : 74.03/ 24.72 Deg  
S/C to Body Center : 1194693. Km ( 16.710864 Ri )  
Z-axis Pointing ( Rc / Dec ) : 198.35 / -3.06 Deg

<b>Activity ID:</b> Orbit 20		OAPEL JUNEBTRK		<b>SeqNo</b> 03-	
<b>Title</b>	UVS AWG feature track			<b>Instrument</b>	UVS
<b>Requestor</b>	UVS-AWG/W. KENT TOBISKA		<b>Team</b> UVS	<b>Working Group</b> AWG	
<b>Time System</b> CDS	<b>Load ID</b> 20A	<b>Calendar Date</b> 05/04/99		<b>Week</b> 70	
<b>Start</b>	JEE+CDS 00001438:00:0	99-124/17:14:35.466	JEE+001/00:13:58.666		
<b>End</b>	JEE+CDS 00001442:00:0	99-124/17:18:38.133	JEE+001/00:18:01.333		
<b>Duration</b>	00000004:00:0	000/00:04:02.667	000/00:04:02.667		
<b>Top Label</b>	20JUNEBTRK03-				
<b>Bottom Label</b>	realtime				
<b>Plot Key</b>	UVS	<b>Type</b>	SCI		
<b>CDS Bytes</b>	94	<b>Report Options</b>	BOTH	<b>Scan Platform</b>	Yes
<b>CDS Source</b>	OAP	<b>Spin State</b>	DUAL	<b>DMS</b>	Yes
<b>Observation Objective</b>					
<div style="border: 1px solid black; width: 200px; height: 150px; display: inline-block; vertical-align: top;"></div> <p>20JUNEBTRK03: AWG feature track with SSI to look at north equatorial belt.                  Rj = 17.2                  UVS configuration: full F/F scans.                  MBTG = 0.017712</p>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384AM	00	00:00	COMMNT UVS RIM 0		
157AM	38	00:00	CMDRS PLAN_DUR = 4 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		01:00	1 UVF:07,SCAN,NORM,NORM,NORM,SAME,0,ON,OFF,OFF,ON,OFF,NOOVR,1,00,9C,00,00		
		04:00	4 OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00		
349JK	28	00:69	UVFLSH DISCRD,UVS		
165JJ	00	-01:00	TARGET Lat/Lon = 10.38/187.6; use SSI target.		
349JL	28	03:69	UVFLSH PACKET,UVS		

Thu Apr 1 16:35:44 1999

20JUNFBTRK03



Start UTC\_TIME : 1999-124 // 17:15:30.978  
No End Time :  
Start SOLK : 1/04980817:00:0:0

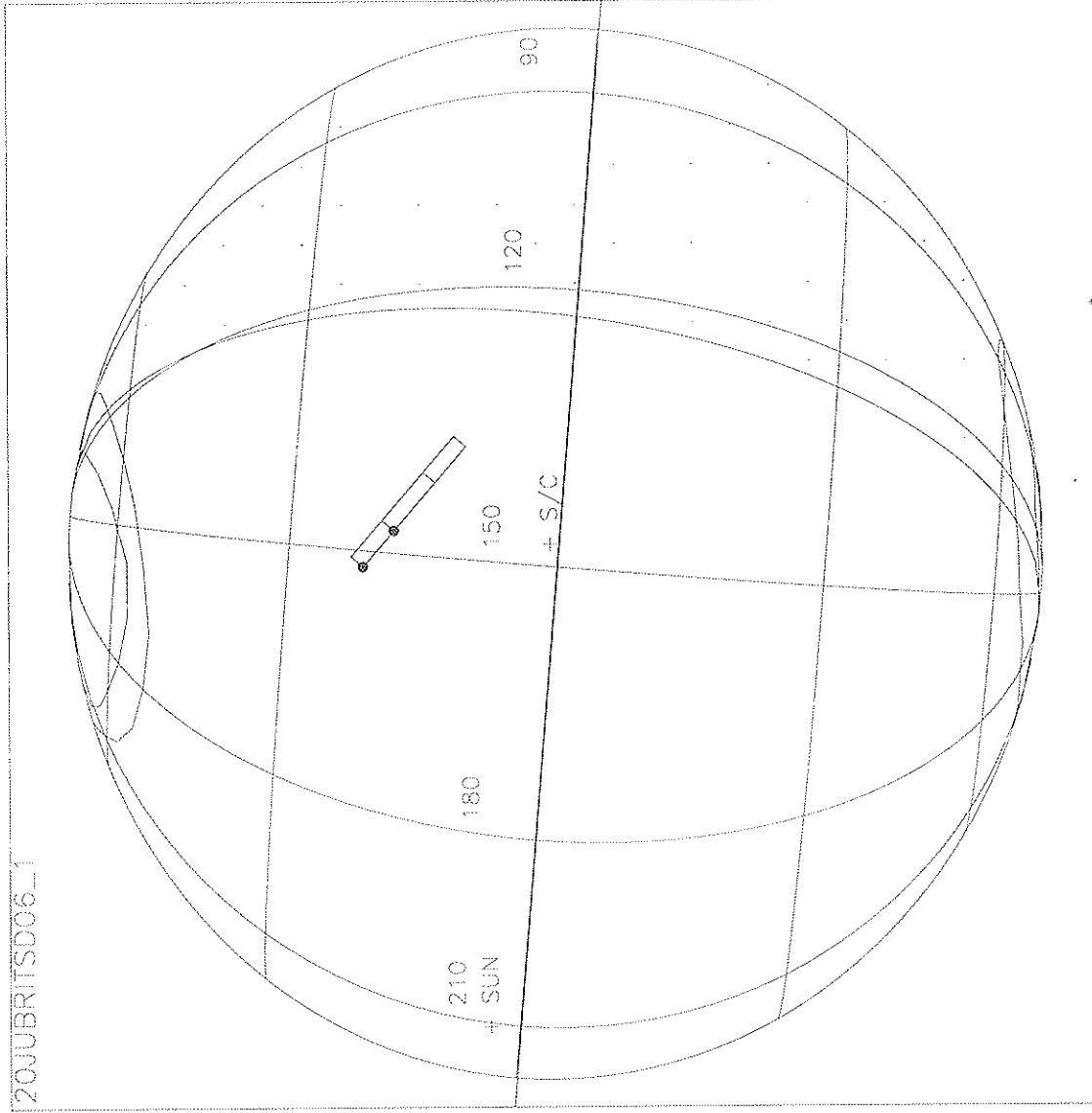
Target Body : JUPITER  
Target Ra/Dec : 76.58 / 24.94 Deg  
S/C to Body Center : 1236601. Km ( 17.297056 Rj )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Activity ID:	Orbit 20	OAPEL JUBRITSD	SeqNo	06-			
Title	Brightside hydrocarbons		Instrument	UVS			
Requestor	UVS-AWGAV.KENT TOBISKA	Team	UVS	Working Group	AWG		
Time System	CDS	Load ID	20A	Calendar Date	05/04/99	Week	70
Start	JEE+CDS 00001442:00:0		99-124/17:18:38.133		JEE+001/00:18:01.333		
End	JEE+CDS 00001476:00:0		99-124/17:53:00.800		JEE+001/00:52:24.000		
Duration	00000034:00:0		000/00:34:22.667		000/00:34:22.667		
Top Label	20JUBRITSD06-						
Bottom Label	realtime						
Plot Key	UVS	Type	SCI				
CDS Bytes	277	Report Options	BOTH		Scan Platform	Yes	
CDS Source	OAP	Spin State	DUAL		DMS	No	
<b>Observation Objective</b>							
<p>Observe brightside hydrocarbon emissions to develop a statistically significant acetylene and ammonia spectrum at four latitudes. This study will help understand minor species chemistry related to dynamics in Jupiter's stratosphere/upper troposphere. Low photon count rates require substantial integration time. This is a realtime observation for 6.13 hours during the feature track window using either a G/G 176 step miniscan covering 1496-1755 Å or a G/G full scan at a distance from Jupiter = 17.4 R<sub>J</sub>. 4 observation latitudes are north high and mid lat, south mid and high lat. The lighting and view geometry is designed so that <math>1/\mu + 1/\mu_0 = 3.88</math>.</p> <p>MBTG = 0.017712; 27 RIMs integration time              north mid latitude; 176-step mini-scan G/G              GEM Objective Phase 2 - Jupiter atm. dynamics</p>							
<b>Design Detail</b>							
PSID	CDS	RIM	COMMAND PARAMETERS				
384AN	00	00:00	COMMENT UVS RIM 0				
157AN	94	00:00	CMDRS PLAN_DUR = 34 RIMS; EST_UVS_CHDS = 6 (34UVS)				
		01:00	1	UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00			
		13:00	13	OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00			
		16:00	16	UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00			
		18:00	18	OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00			
		21:00	21	UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00			
		34:00	34	OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00			
349JL	00	-00:69	UVFLSH (previous observation zeros buffer)				
165CH	27	01:00	TARGET Lat/Lon = 18.5/144.3 (RA/Dec = 76.34/25.89) [3.8768]				
117CH	37	02:00	CSMOS #_strip=2; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-2.0				
165CI	27	16:00	TARGET Lat/Lon = 18.5/153.5 (RA/Dec = 76.84/25.92) [3.8722]				
165CJ	27	21:00	TARGET Lat/Lon = 18.5/156.5 (RA/Dec = 77.00/25.93) [3.8785]				
117CJ	37	21:00	CSMOS #_strip=3; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-2.0 (BS=45)				
349KL	28	33:69	UVFLSH PACKET,UVS				



Thu Apr 1 16:37:06 1999

20JUBRITSD06L1

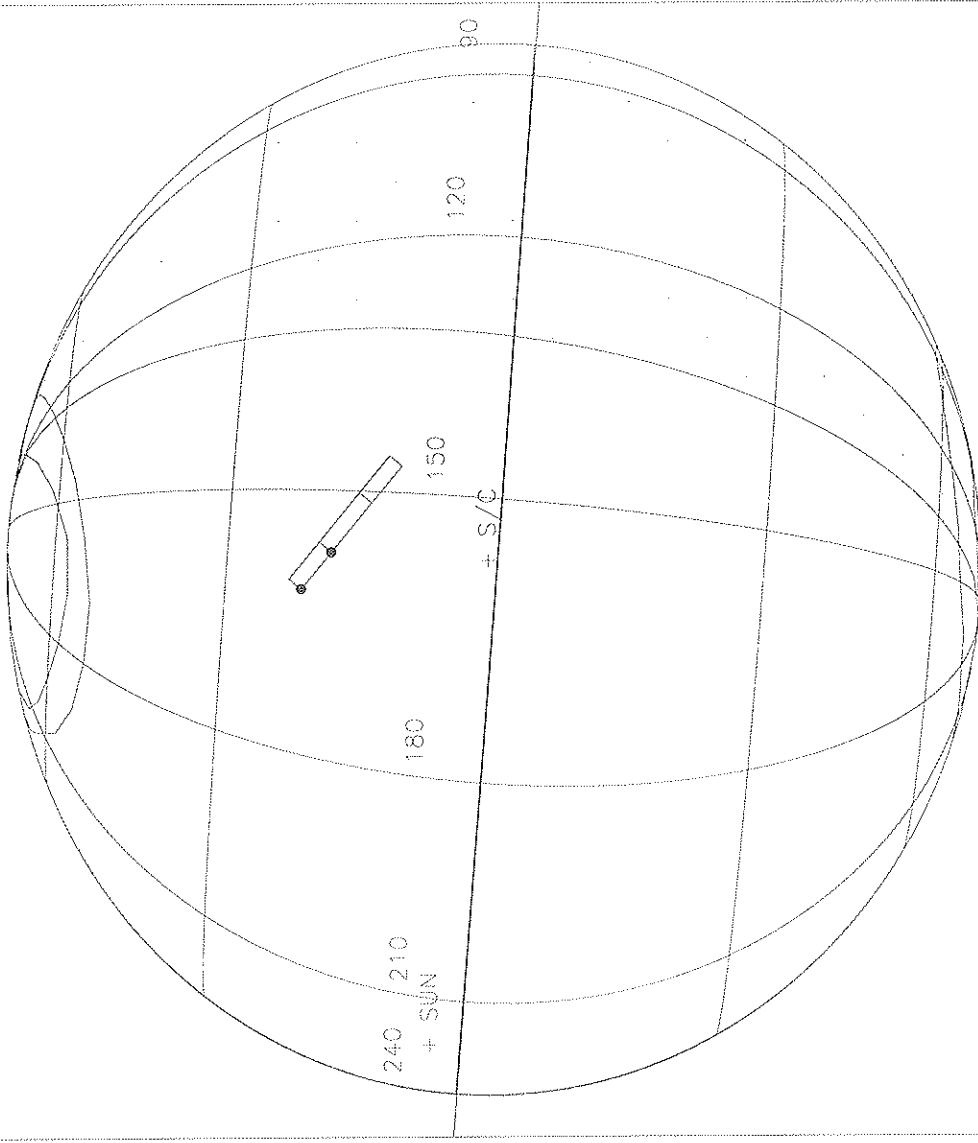


Start UTC\_TIME : 1999-124 // 17:19:33.645  
No End Time :  
Start SOLK : 1/04980621:00:0:0

Target Body : JUPITER  
Target Ra/Dec : 76.70 / 24.95 Deg  
S/C to Body Center : 1238752. Km ( 17.327140 RJ )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Thu Apr 1 16:38:14 1999

20JUBRITSD06.L2

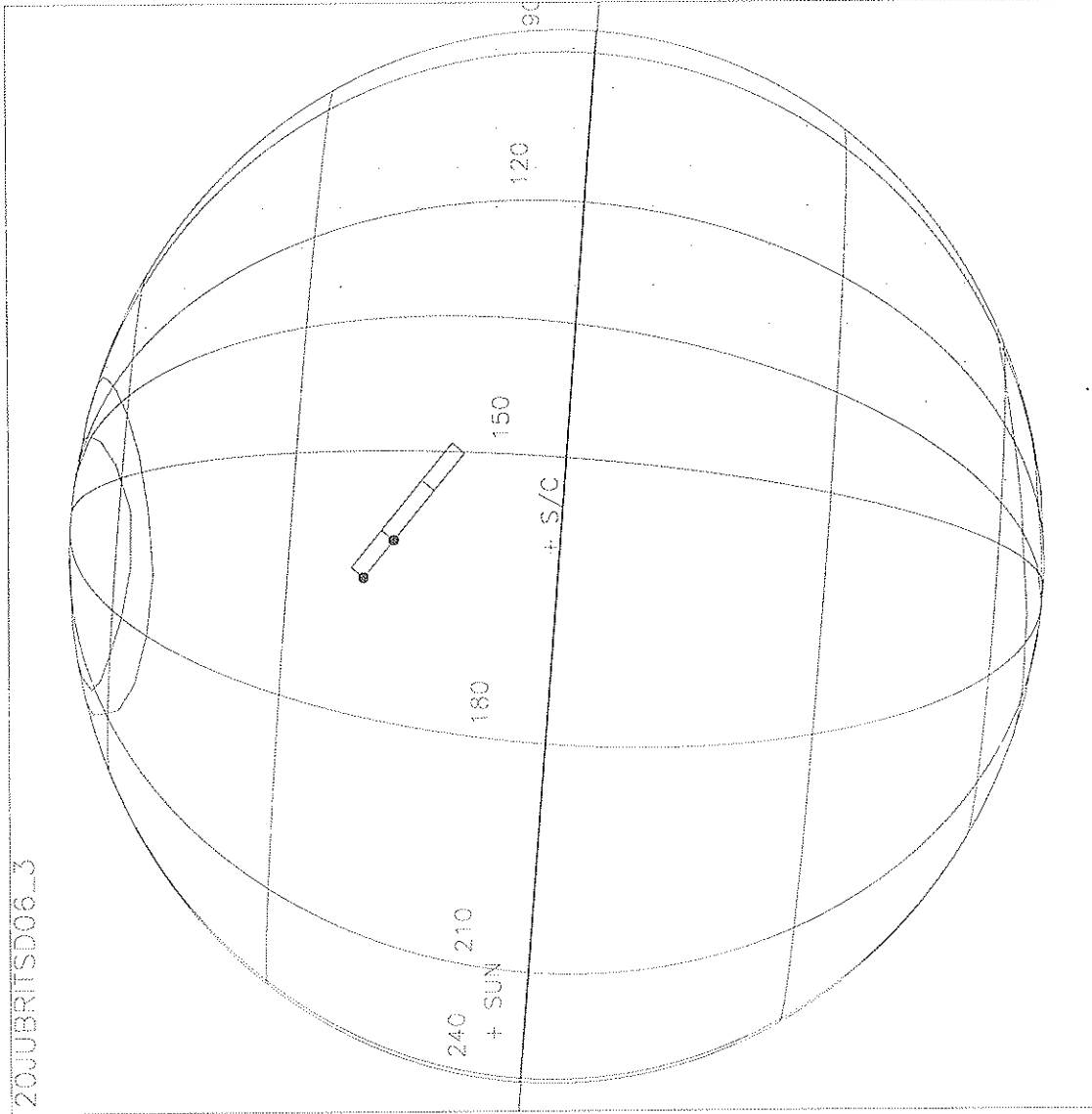


Start UTC TIME : 1999-124 // 17:34:43.644  
No End Time :  
Start SOLK : 1/04980036:00:00

Target Body : JUPITER  
Target Rc/Dec : 77.17 / 24.98 Deg  
S/C to Body Center : 1246818. Km ( 17.439969 RJ )  
Z-axis Pointing ( Rc / Dec ) : 198.35 / -3.06 Deg

Thu Apr 1 16:39:29 1999

20JUBRITSD06\_3



Start UTC TIME : 1999-124 // 17:39:46.977

No End Time :

Start SOLK : 1/0498084:00:0:0

Target Body : JUPITER

Target Ra/Dec : 77.35 / 24.99 Deg

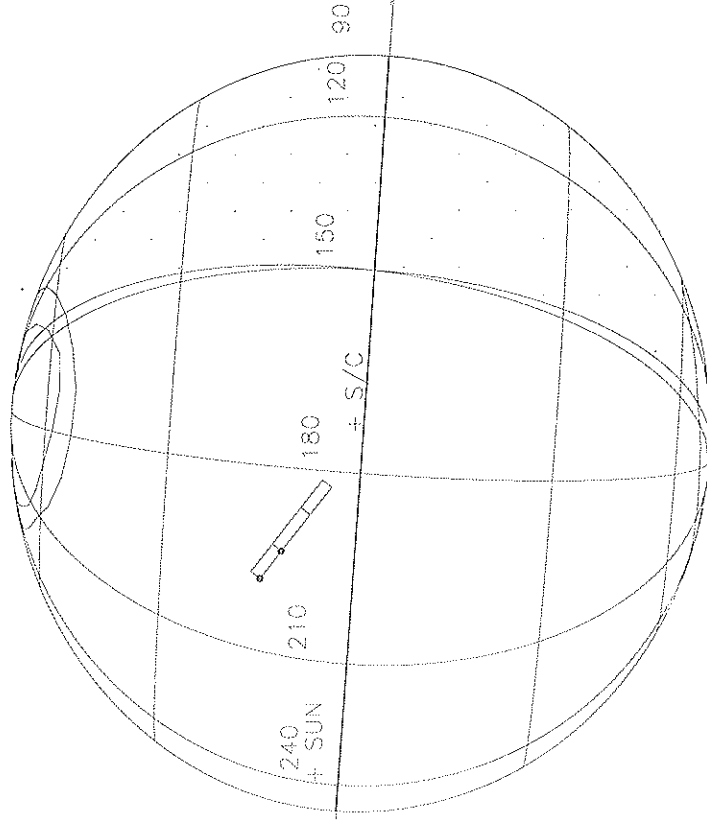
S/C to Body Center : 1249507. Km ( 17.477581 Rj )

Z - axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Activity ID: Orbit 20		OAPEL JUNEBTRK		SeqNo 13-	
Title	UVS AWG feature track			Instrument	UVS
Requestor	UVS-AWG/W.KENTTOBISKA	Team	UVS	Working Group	AWG
Time System	CDS	Load ID	20A	Calendar Date	05/04/99 Week 70
Start	JEE+CDS 00001486:00:0		99-124/18:03:07.466		JEE+001/01:02:30.666
End	JEE+CDS 00001490:00:0		99-124/18:07:10.133		JEE+001/01:06:33.333
Duration	00000004:00:0		000/00:04:02.667		000/00:04:02.667
Top Label	20JUNEBTRK13-				
Bottom Label	realtime				
Plot Key	UVS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes
<b>Observation Objective</b>					
<div style="border: 1px solid black; width: 200px; height: 150px; display: inline-block; vertical-align: top;"></div> <p>20JUNEBTRK13: AWG feature track with SSI to look at north equatorial belt.</p> <p>Rj = 17.5</p> <p>UVS configuration: full F/F scans.</p> <p>MBTG = 0.017712</p>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384AO	00	00:00	COMMENT UVS RIM 0		
157AO	38	00:00	CMDRS PLAN_DUR = 4 RIMS; EST_UVS_CHDS = 2 (34UVS)		
		01:00	1 UVF:07, SCAN, NORM, NORM, NORM, SAME, 0, ON, OFF, OFF, ON, OFF, NOOVR, 1, 00, 9C, 00, 00		
		04:00	4 OFF: C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
349JM	28	00:69	UVFLSH DISCRD, UVS		
165CK	27	01:00	TARGET Lat/Lon = 10.40/189.08; (RA/Dec = 78.98/25.64)		
349JM	28	03:69	UVFLSH PACKET, UVS		

Thu Apr 1 16:41:05 1999

20JUNEBTRK13



Start UTC Time : 1999-124 // 16:04:02.976

No End Time :

Start SCLK : 1/04980885:00:0:0

Target Body : JUPITER

Target Ra/Dec : 78.06 / 25.04 Deg

S/C to Body Center : 1262415. Km ( 17.658133 Rj )

Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Activity ID:	Orbit 20	OAPEL JUBRITSD	SeqNo	07-
Title	Brightside hydrocarbons		Instrument	UVS
Requestor	UVS-AWG/W. KENT TOBISKA	Team	UVS	Working Group
				AWG
Time System	CDS	Load ID	20A	Calendar Date
				05/04/99
Week	70			
Start	JEE+CDS 00001490:00:0	99-124/18:07:10.133	JEE+001/01:06:33.333	
End	JEE+CDS 00001524:00:0	99-124/18:41:32.800	JEE+001/01:40:56.000	
Duration	00000034:00:0	000/00:34:22.667	000/00:34:22.667	
Top Label	20JUBRITSD07-			
Bottom Label	realtime			
Plot Key	UVS	Type	SCI	
CDS Bytes	277	Report Options	BOTH	Scan Platform
				Yes
CDS Source	OAP	Spin State	DUAL	DMS
				No

**Observation Objective**

Observe brightside hydrocarbon emissions to develop a statistically significant acetylene and ammonia spectrum at four latitudes. This study will help understand minor species chemistry related to dynamics in Jupiter's stratosphere/upper troposphere. Low photon count rates require substantial integration time. This is a realtime observation for 6.13 hours during the feature track window using either a G/G 176 step miniscan covering 1496-1755 Å or a G/G full scan at a distance from Jupiter = 17.6 R<sub>J</sub>. 4 observation latitudes are north high and mid lat, south mid and high lat. The lighting and view geometry is designed so that  $1/\mu + 1/\mu_0 = 3.88$ .

MBPG = 0.017712; 26 RIMS integration time  
 north mid latitude; full-scan G/G  
 GEM Objective Phase 2 - Jupiter atm. dynamics

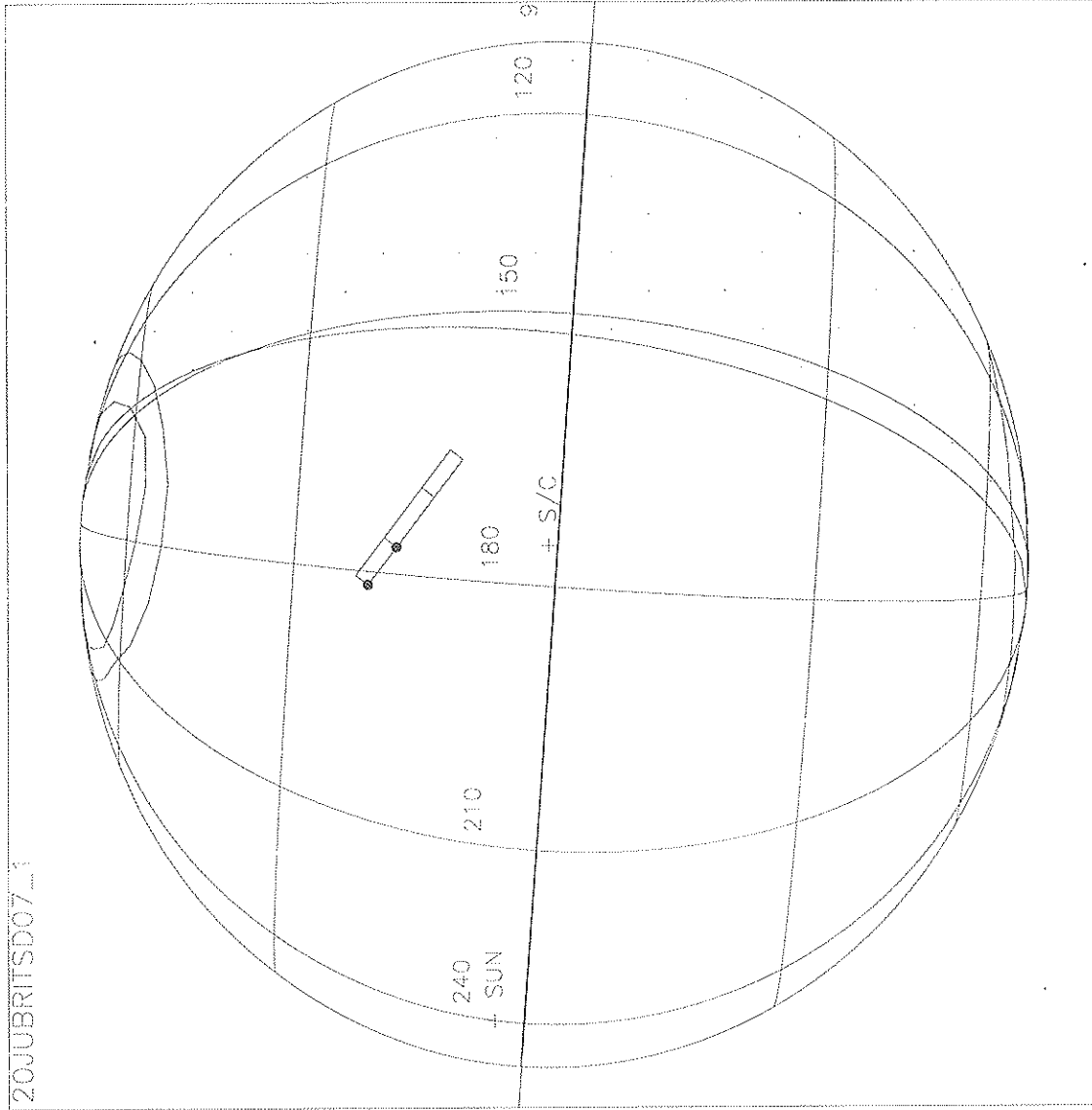
**Design Detail**

```

PSID  CDS  RIM  COMMAND PARAMETERS
384AP 00  00:00  COMMENT UVS RIM 0
157AP 94  00:00  CMDRS  PLAN_DUR = 34 RIMS; EST_UVS_CMDS = 6 (34UVS)
      01:00  1  UVG:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,ON,OFF,NOOVR,1,2C,9D,00,00
      07:00  7  OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00
      08:00  8  UVG:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,ON,OFF,NOOVR,1,2C,9D,00,00
      10:00  10 OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00
      16:00  16 UVG:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,ON,OFF,NOOVR,1,2C,9D,00,00
      34:00  34 OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00
349JN 00 -00:69 UVFLSH (previous observation zeros buffer)
165CL 27  01:00  TARGET  Lat/Lon = 18.5/173.6 (RA/Dec = 77.92/25.98) [3.8800]
117CL 37  02:00  CS MOS  #_strip=1; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-1.9
165CN 27  08:00  TARGET  Lat/Lon = 18.5/177.8 (RA/Dec = 78.14/25.99) [3.8890]
165CN 27  16:00  TARGET  Lat/Lon = 18.5/182.8 (RA/Dec = 78.40/26.01) [3.8756]
117CN 37  17:00  CS MOS  #_strip=4; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-1.9
349RN 28  33:69  UVFLSH  PACKET,UVS
    
```

Thu Apr 1 16:42:40 1999

20JUBRITSD07\_1

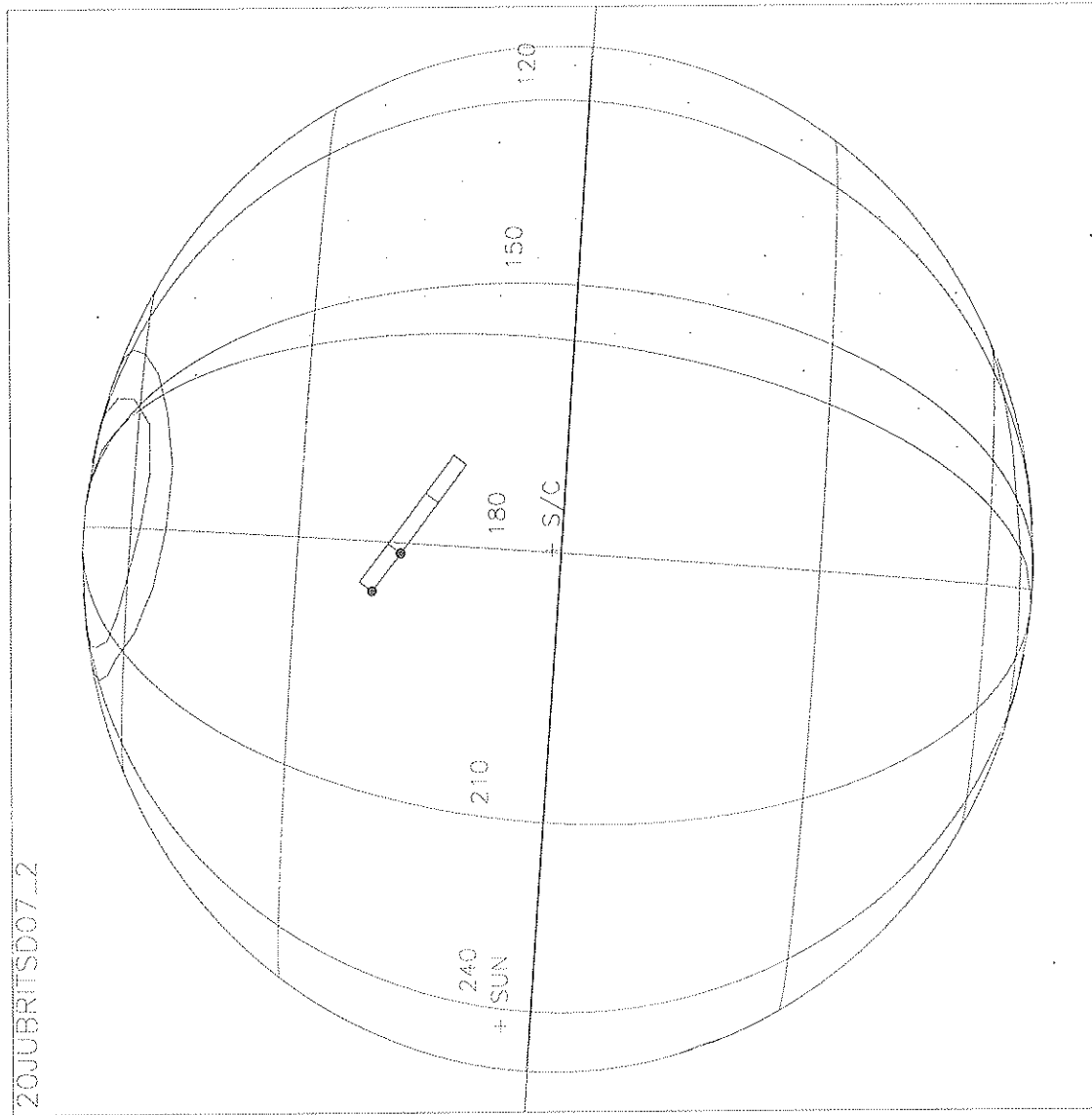


Start UTC TIME : 1999-124 // 16:08:03.543  
No End Time :  
Start SCLK : 1/04980869:00:00

Target Body : JUPITER  
Target Ra/Dec : 78.19 / 25.05 Deg  
S/C to Body Center : 1264567. Km ( 17.588226 Rj )  
Z-axis Pointing ( Ra / Dec ) : 198.55 / -3.06 Deg

Thu Apr 1 16:43:46 1999

20JUBRITSD07 ...2



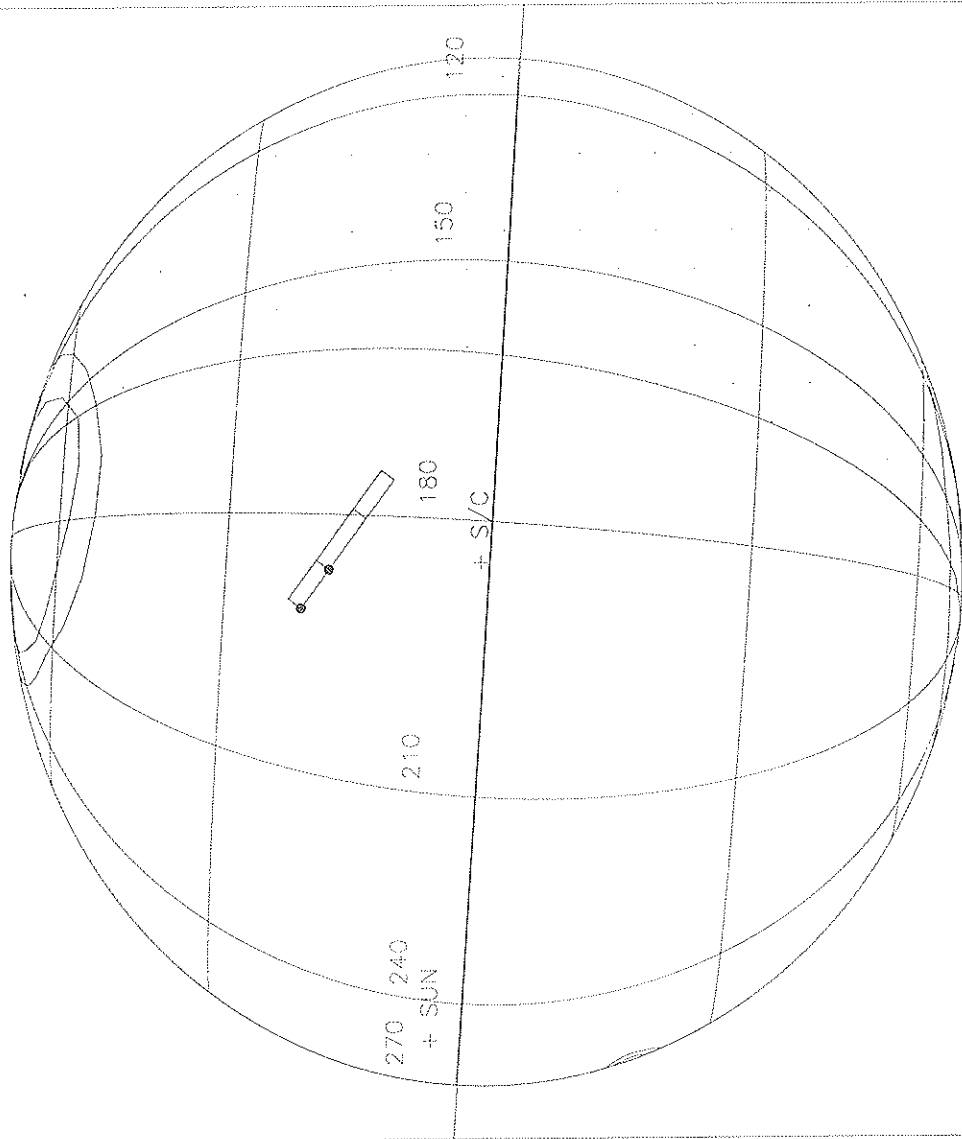
Start UTC TIME : 1999-124 // 18:15:10.309  
No End Time :  
Start SOLK : 1/04980876:00:0:0

Target Body : JUPITER  
Target Ra/Dec : 78.40 / 25.06 Deg  
S/C to Body Center : 1268.332 Km ( 17.740888 RJ )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg



Thu Apr 1 16:45:21 1999

20JUBRITSD07\_3\*



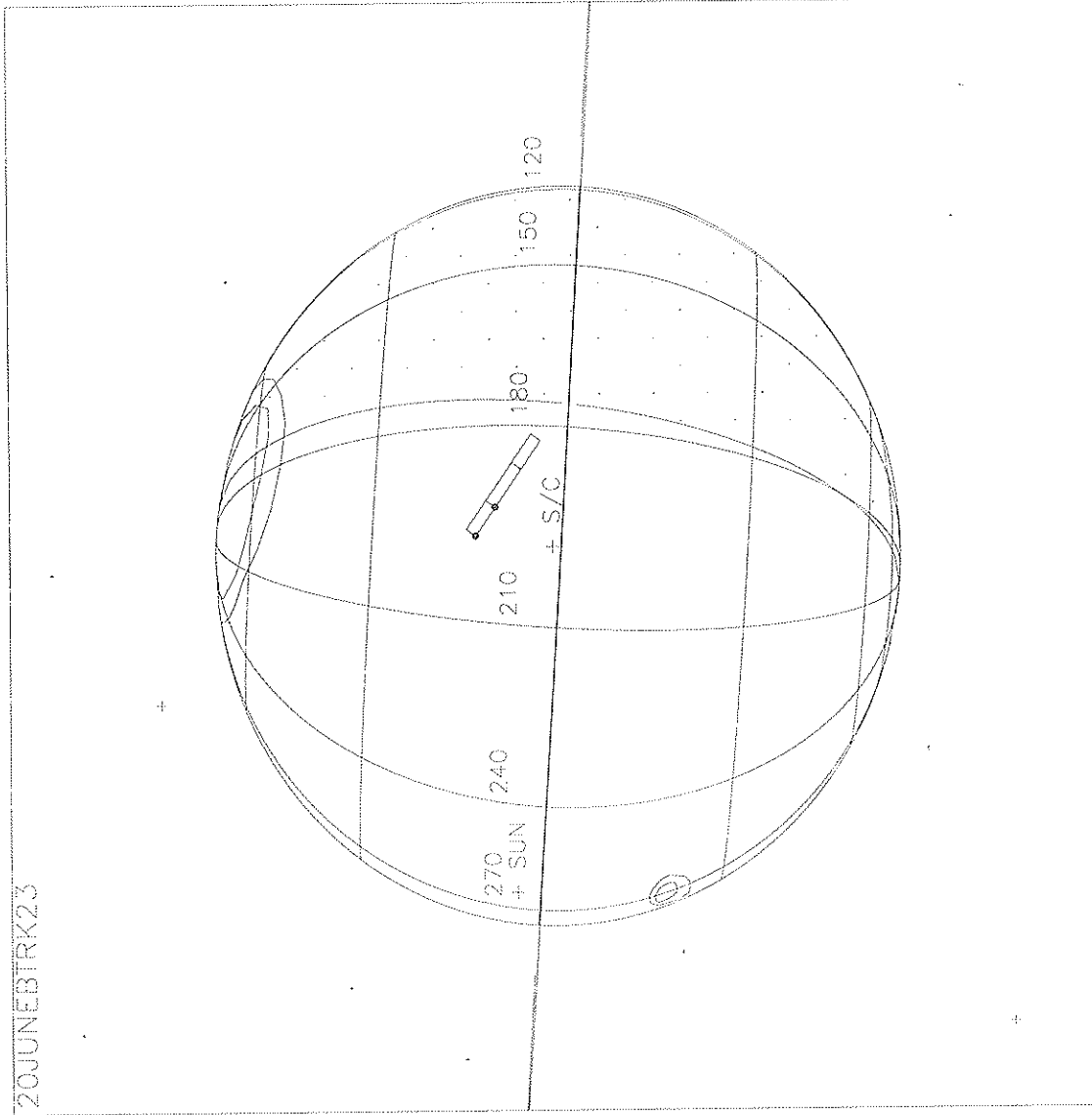
Start UTC TIME : 1999-124 // 18:23:15.542  
No End Time :  
Start SCLK : 1/04980984:00:00

Target Body : JUPITER  
Target Ra/Dec : 78.64 / 25.08 Deg  
S/C to Body Center : 1272634. Km ( 17.801073 Rj )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

<b>Activity ID:</b> Orbit 20		<b>OAPEL</b> JUNE BTRK		<b>SeqNo</b> 23-	
<b>Title</b>	UVS AWG feature track			<b>Instrument</b>	UVS
<b>Requestor</b>	UVS-AWG/W. KENT TOBISKA	<b>Team</b>	UVS	<b>Working Group</b>	AWG
<b>Time System</b>	CDS	<b>Load ID</b>	20A	<b>Calendar Date</b>	05/04/99
				<b>Week</b>	70
<b>Start</b>	JEE+CDS 00001529:00:0		99-124/18:46:36.133		JEE+001/01:45:59.333
<b>End</b>	JEE+CDS 00001533:00:0		99-124/18:50:38.800		JEE+001/01:50:02.000
<b>Duration</b>	00000004:00:0		000/00:04:02.667		000/00:04:02.667
<b>Top Label</b>	20JUNEBTRK23-				
<b>Bottom Label</b>	realtime				
<b>Plot Key</b>	UVS	<b>Type</b>	SCI		
<b>CDS Bytes</b>	121	<b>Report Options</b>	BOTH		
<b>CDS Source</b>	OAP	<b>Spin State</b>	DUAL		
			<b>Scan Platform</b>	Yes	
			<b>DMS</b>	Yes	
<b>Observation Objective</b>					
<div style="border: 1px solid black; width: 200px; height: 150px; display: inline-block; vertical-align: top;"></div> <p>20JUNEBTRK23: AWG feature track with SSI to look at north equatorial belt.</p> <p>Rj = 17.9 UVS configuration: full F/F scans.</p> <p>MBTG = 0.017712</p>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384A	00	00:00	COMMENT UVS RIM 0		
157A	38	00:00	CMDRS PLAN_DUR = 4 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		01:00	1 UVF:07,SCAN,NORM,NORM,NORM,SAME,0,ON,OFF,OFF,ON,OFF,NOOVR,1,00,9C,00,00		
		04:00	4 OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00		
349J	28	00:69	UVFLSH DISCRD,UVS		
165C	27	01:00	TARGET Lat/Lon = 10.41/189.29; (RA/Dec = 78.67/25.60)		
349J	28	03:69	UVFLSH PACKET,UVS		

Thu Apr 1 16:47:02 1999

Z0JUNEBTRK23

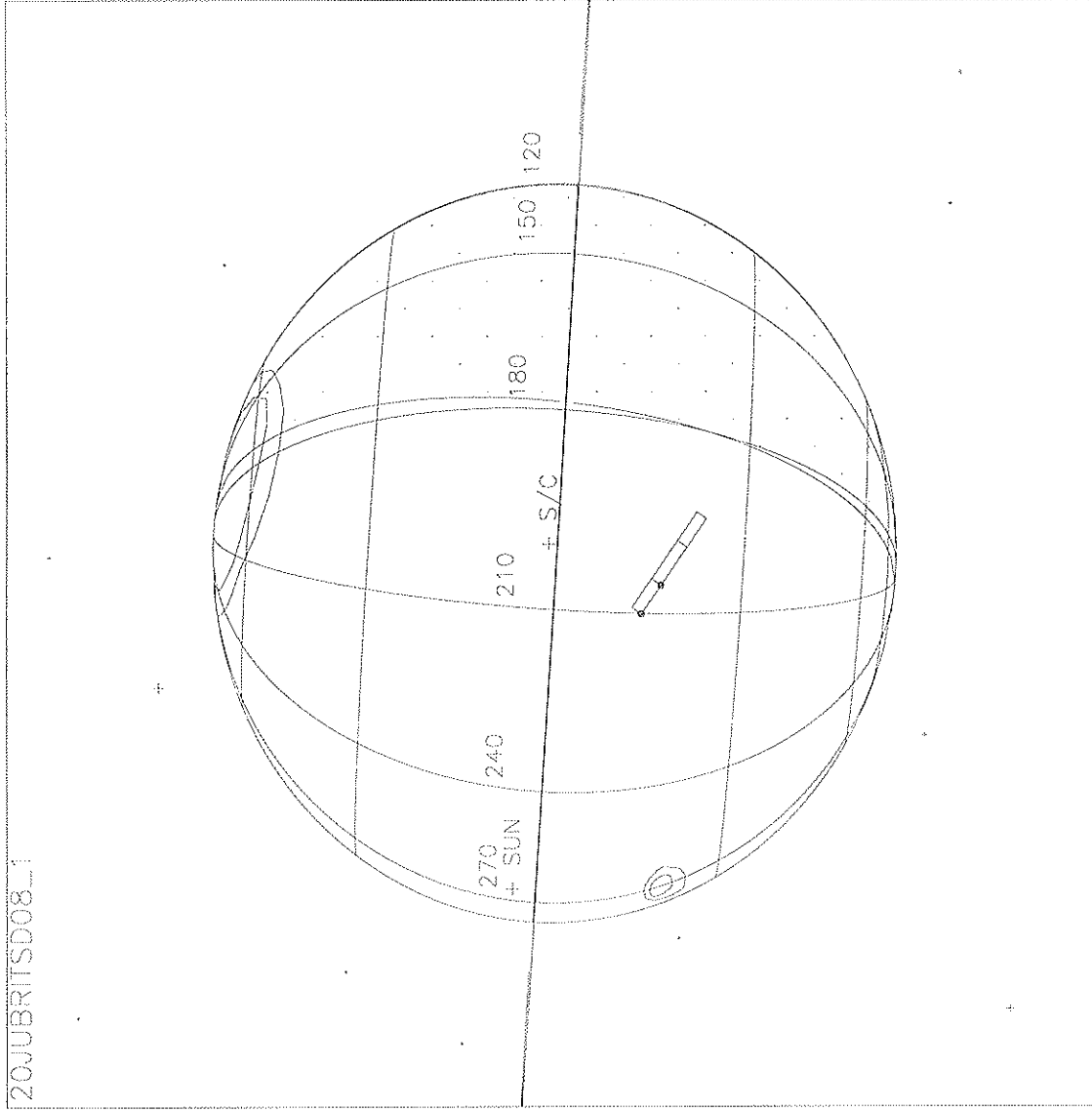


Start UTC TIME : 1999-124 // 18:47:31.641  
No End Time :  
Start SOLK : 1/04980908:00:00  
Target Body : JUPITER  
Target Rc/Dec : 79.35 / 25.12 Deg  
S/C to Body Center : 1285541. Km ( 17.981611 Rj )  
Z-axis Pointing ( Rc / Dec ) : 198.35 / -3.06 Deg

Activity ID: Orbit 20		OAPEL JUBRITSD		SeqNo 08-	
Title	Brightside hydrocarbons			Instrument	UVS
Requestor	UVS-AWG/AW.KENTTOBISKA		Team	UVS	Working Group
					AWG
Time System	CDS	Load ID	20A	Calendar Date	05/04/99
				Week	70
Start	JEE+CDS 00001533:00:0		99-124/18:50:38.800	JEE+001/01:50:02.000	
End	JEE+CDS 00001567:00:0		99-124/19:25:01.466	JEE+001/02:24:24.666	
Duration	00000034:00:0		000/00:34:22.666	000/00:34:22.666	
Top Label	20JUBRITSD08-				
Bottom Label	realtime				
Plot Key	UVS	Type	SCI		
CDS Bytes	332	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	No
<b>Observation Objective</b>					
<p>Observe brightside hydrocarbon emissions to develop a statistically significant acetylene and ammonia spectrum at four latitudes. This study will help understand minor species chemistry related to dynamics in Jupiter's stratosphere/upper troposphere. Low photon count rates require substantial integration time. This is a realtime observation for 6.13 hours during the feature track window using either a G/G 176 step miniscan covering 1496-1755 Å or a G/G full scan at a distance from Jupiter = 18.1 R<sub>J</sub>. 4 observation latitudes are north high and mid lat, south mid and high lat. The lighting and view geometry is designed so that <math>1/\mu + 1/\mu_0 = 3.88</math>.</p> <p>MBTG = 0.017712; 26 RIMs integration time  south mid latitude; 176-step mini-scan G/G  GEM Objective Phase 2 - Jupiter atm. dynamics</p>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384AR	00	00:00	COMMNT UVS RIM 0		
157AR	122	00:00	CMDRS PLAN_DUR = 34 RIMS; EST_UVS_CMDS = 8 (34UVS)		
		01:00	1 UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00		
		10:00	10 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
		13:00	13 UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00		
		15:00	15 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
		17:00	17 UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00		
		23:00	23 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
		25:00	25 UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00		
		34:00	34 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
349JP	00	-00:69	UVFLSH (previous observation zeros buffer)		
165CP	27	01:00	TARGET Lat/Lon = -19.5/202.1 (RA/Dec = 79.56/24.13) [3.8704]		
117CP	37	01:00	CSMOS #_strip=2; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-1.7 (BS=45)		
165CQ	27	13:00	TARGET Lat/Lon = -19.5/209.3 (RA/Dec = 79.91/24.16) [3.8872]		
165CR	27	17:00	TARGET Lat/Lon = -19.5/211.8 (RA/Dec = 80.04/24.17) [3.8807]		
165CS	27	25:00	TARGET Lat/Lon = -19.5/216.7 (RA/Dec = 80.28/24.18) [3.8794]		
117CS	37	25:00	CSMOS #_strip=2; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-1.7 (BS=45)		
349KP	28	33:69	UVFLSH PACKET, UVS		

Thu Apr 1 16:48:44 1999

20JUBRITSD08L1

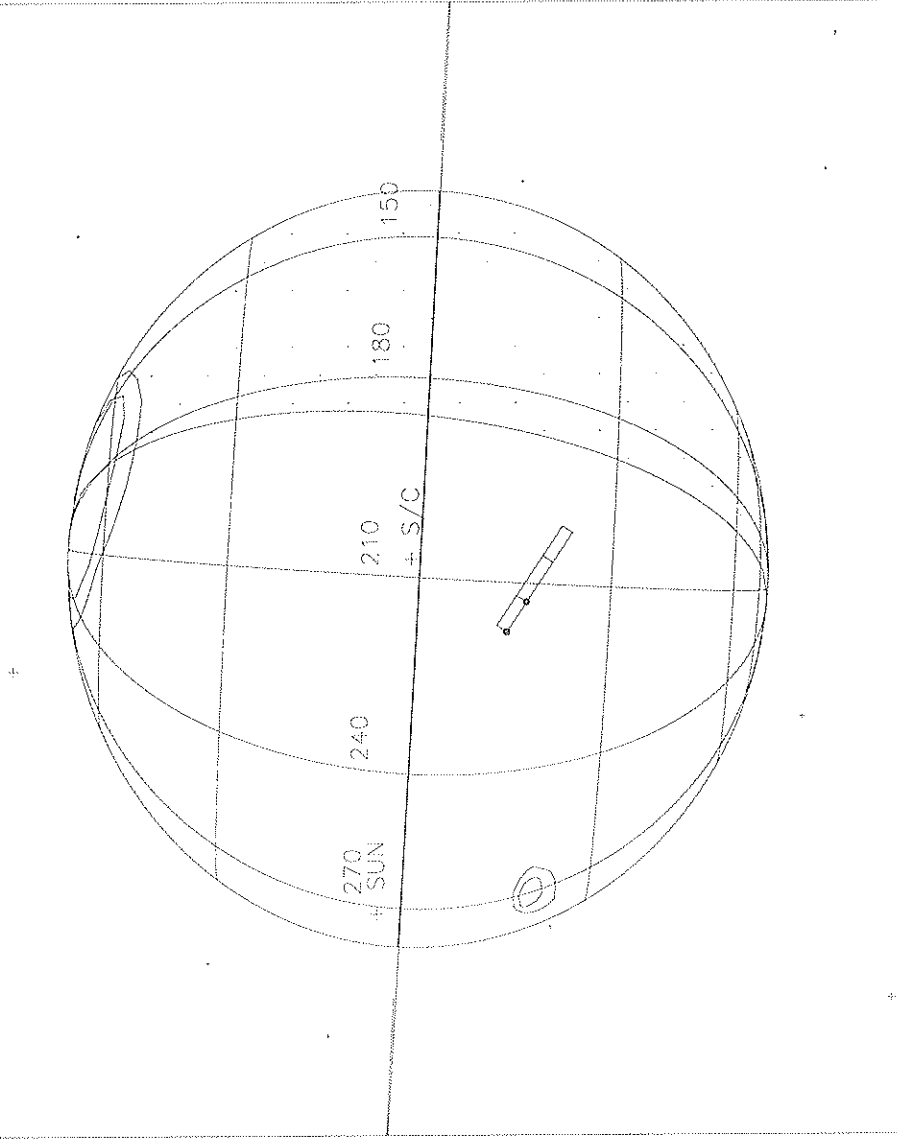


Start UTC TIME : 1999-124 // 18:51:34.308  
No End Time :  
Start SCLK : 1/04980912:00:0:0

Target Body : JUPITER  
Target Ra/Dec : 79.47 / 25.13 Deg  
S/C to Body Center : 1287692. Km ( 18.011698 RJ )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

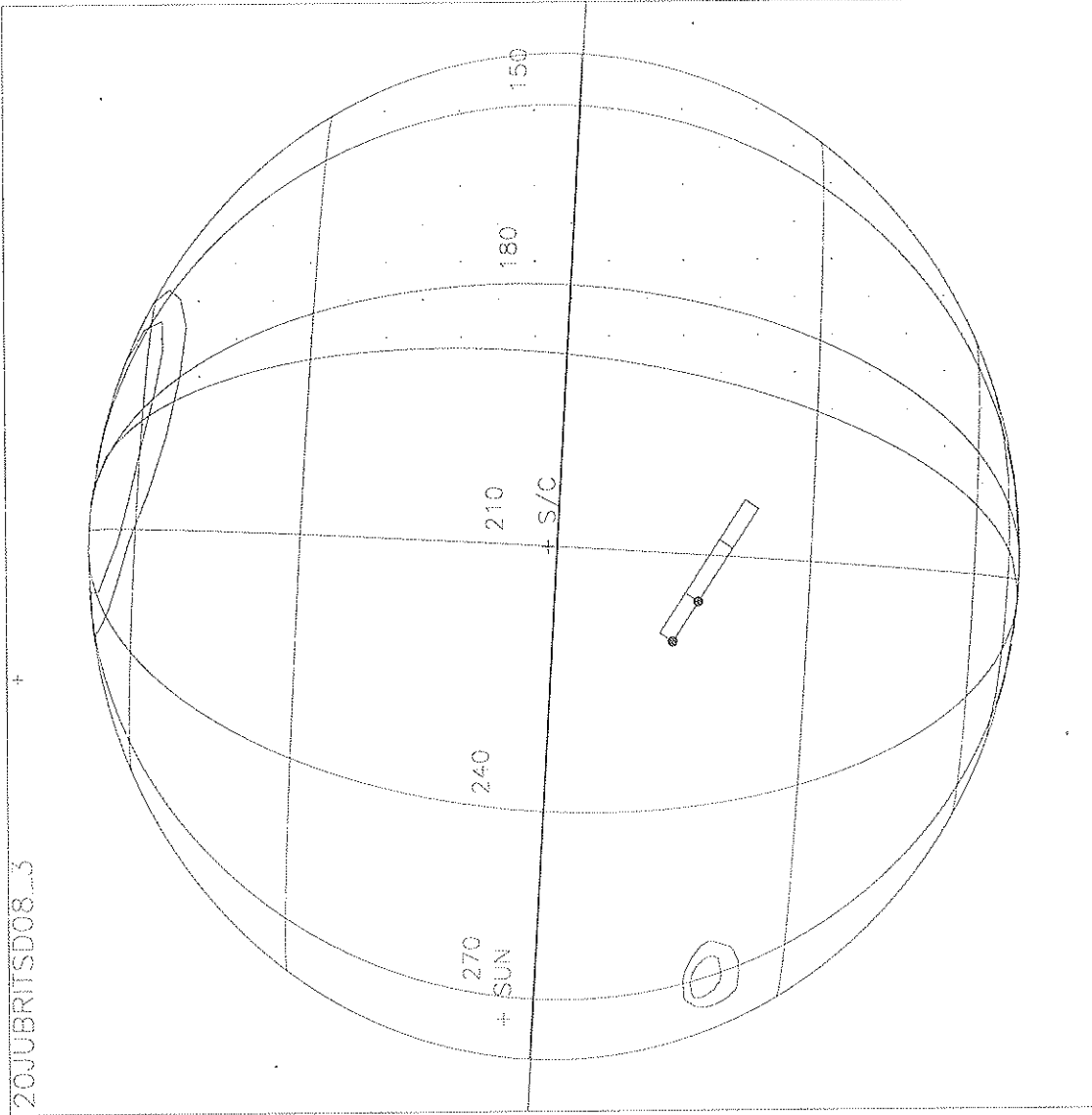
Thu Apr 1 17:10:13 1999

20JUBRITSD08\_L2



Start UTC TIME : 1999-124 // 19:03:42.308  
No End Time :  
Start SCLK : 1/04980924:00:0.0  
Target Body : JUPITER  
Target Ra/Dec : 79.81 / 25.14 Deg  
S/C to Body Center : 1294145. Km ( 18.101950 Rj )  
Z-axis Pointing ( Ra / Dec ) : 199.35 / -5.06 Deg

Thu Apr 1 19:28:52 1999



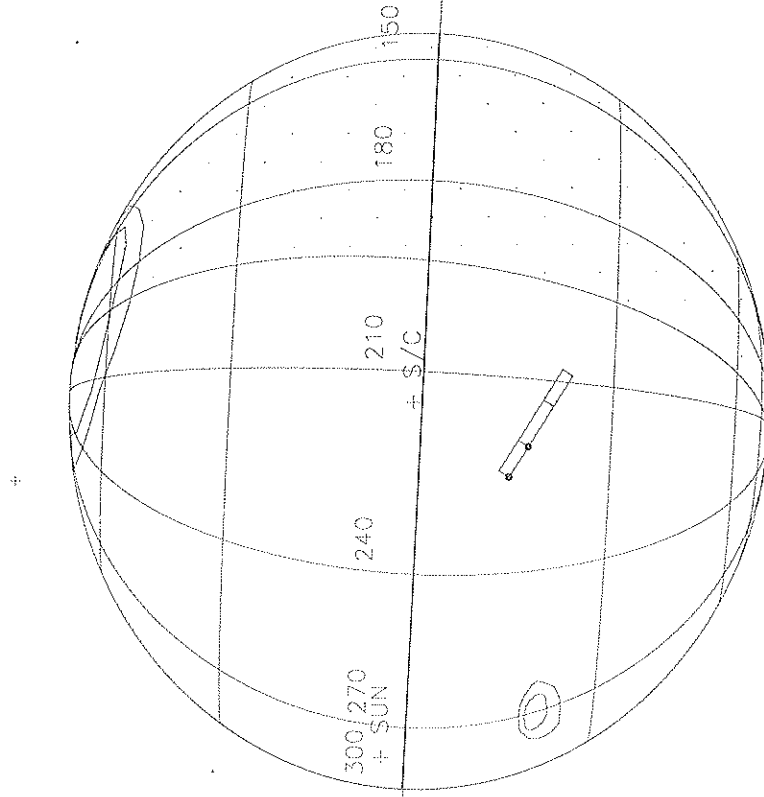
20JUBRITSD08...3

Start UTC TIME : 1999-124 // 19:07:44.974  
No End Time :  
Start SOLK : 1/04680928:00:0:0

Target Body : JUPITER  
Target Ra/Dec : 79.93 / 25.15 Deg  
S/C to Body Center : 1296295. Km ( 18.132031 RJ )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Thu Apr 1 19:30:07 1999

20JUBRITSD08\_4



Start UTC TIME : 1999-124 // 19:15:50.307

No. End Time :

Start SCLK : 1/04980936:00:0:0

Target Body : JUPITER

Target Ra/Dec : 80.16/ 25.16 Deg

S/C to Body Center : 1300596. Km ( 18.192189 RJ )

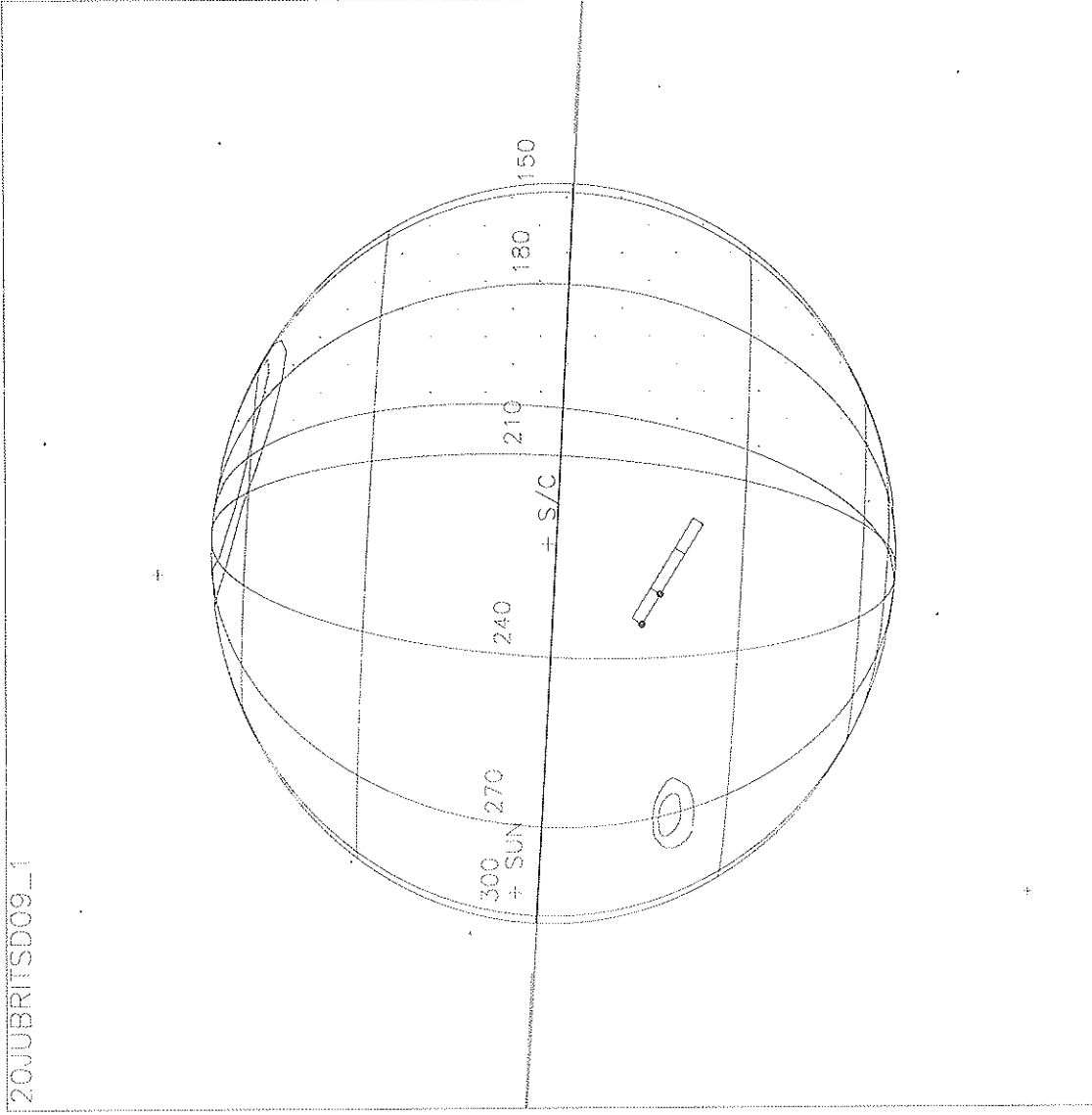
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg



Activity ID:	Orbit 20	OAPEL JUBRITSD	SeqNo	09-
Title	Brightside hydrocarbons		Instrument	UVS
Requestor	UVS-AWG/W.KENTTOBISKA	Team	UVS	Working Group
				AWG
Time System	CDS	Load ID	20A	Calendar Date
				05/04/99
Week				70
Start	JEE+CDS 00001573:00:0		99-124/19:31:05.466	JEE+001/02:30:28.666
End	JEE+CDS 00001601:00:0		99-124/19:59:24.133	JEE+001/02:58:47.333
Duration	00000028:00:0		000/00:28:18.667	000/00:28:18.667
Top Label	20JUBRITSD09-			
Bottom Label	realtime			
Plot Key	UVS	Type	SCI	
CDS Bytes	360	Report Options	BOTH	Scan Platform
				Yes
CDS Source	OAP	Spin State	DUAL	DMS
				No
<b>Observation Objective</b>				
<p>Observe brightside hydrocarbon emissions to develop a statistically significant acetylene and ammonia spectrum at four latitudes. This study will help understand minor species chemistry related to dynamics in Jupiter's stratosphere/upper troposphere. Low photon count rates require substantial integration time. This is a realtime observation for 6.13 hours during the feature track window using either a G/G 176 step miniscan covering 1496-1755 Å or a G/G full scan at a distance from Jupiter = 18.3 R<sub>J</sub>. 4 observation latitudes are north high and mid lat, south mid and high lat. The lighting and view geometry is designed so that <math>1/\mu + 1/\mu_0 = 3.88</math>.</p> <p>MBTG = 0.017712; 21 RIMS integration time south mid latitude; 176-step mini-scan G/G GEM Objective Phase 2 - Jupiter atm. dynamics</p>				
<b>Design Detail</b>				
PSID	CDS	RIM	COMMAND PARAMETERS	
384AS	00	00:00	COMMENT UVS RIM 0	
157AS	122	00:00	CMDRS PLAN_DUR = 28 RIMS; EST_UVS_CMDS = 8 (34UVS)	
		01:00	1 UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00	
		08:00	8 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00	
		10:00	10 UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00	
		13:00	13 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00	
		14:00	14 UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00	
		18:00	18 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00	
		21:00	21 UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00	
		28:00	28 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00	
349KQ	28	00:69	UVFLSH DISCRD, UVS	
165CT	27	01:00	TARGET Lat/Lon = -19.5/226.5 (RA/Dec = 80.76/24.21) [3.8770]	
117CT	37	02:00	CSMOS #_strip=1; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-1.6	
165CJ	27	10:00	TARGET Lat/Lon = -19.5/231.9 (RA/Dec = 81.01/24.23) [3.8887]	
165CV	27	14:00	TARGET Lat/Lon = -19.5/234.4 (RA/Dec = 81.14/24.24) [3.8823]	
165CW	27	21:00	TARGET Lat/Lon = -19.5/238.7 (RA/Dec = 81.34/24.25) [3.8798]	
117CW	37	23:00	CSMOS #_strip=1; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-1.6	
349KR	28	27:69	UVFLSH PACKET, UVS	

Thu Apr 1 19:31:43 1999

20JUBRITSD09\_L1



Start UTC TIME : 1999-124 // 19:31:00.307

No End Time :

Start SOLK : 1/04980951:00:0:0

Target Body : JUPITER

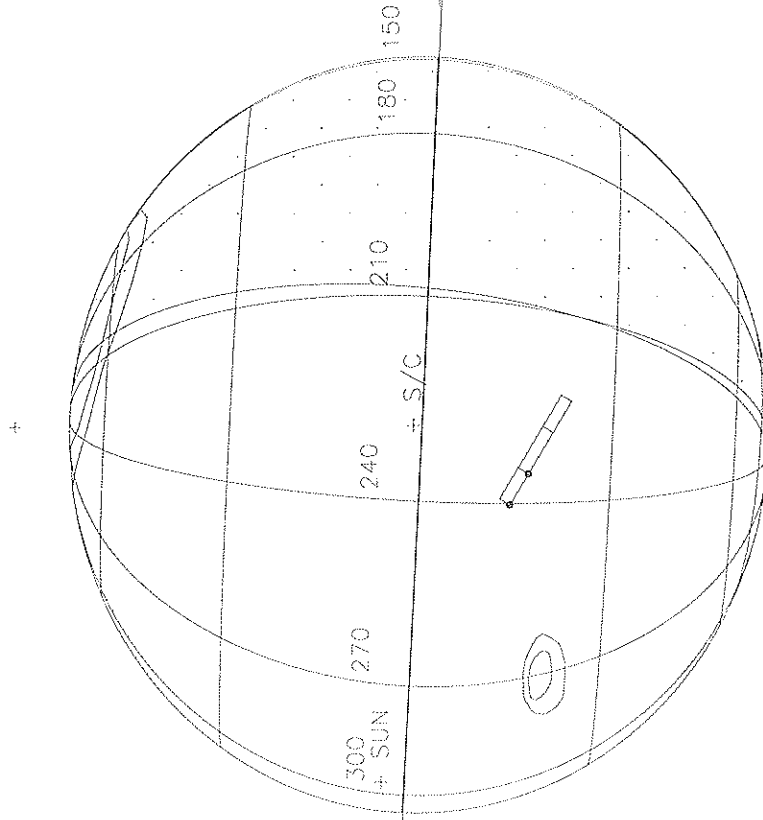
Target Ra/Dec : 80.59 / 25.18 Deg

S/C to Body Center : 1308659. Km ( 18.304964 Rj )

Z-axis Pointing ( Ra / Dec ) : 198.55 / -3.06 Deg

Thu Apr 1 19:32:53 1999

20JUBRITSD09\_2

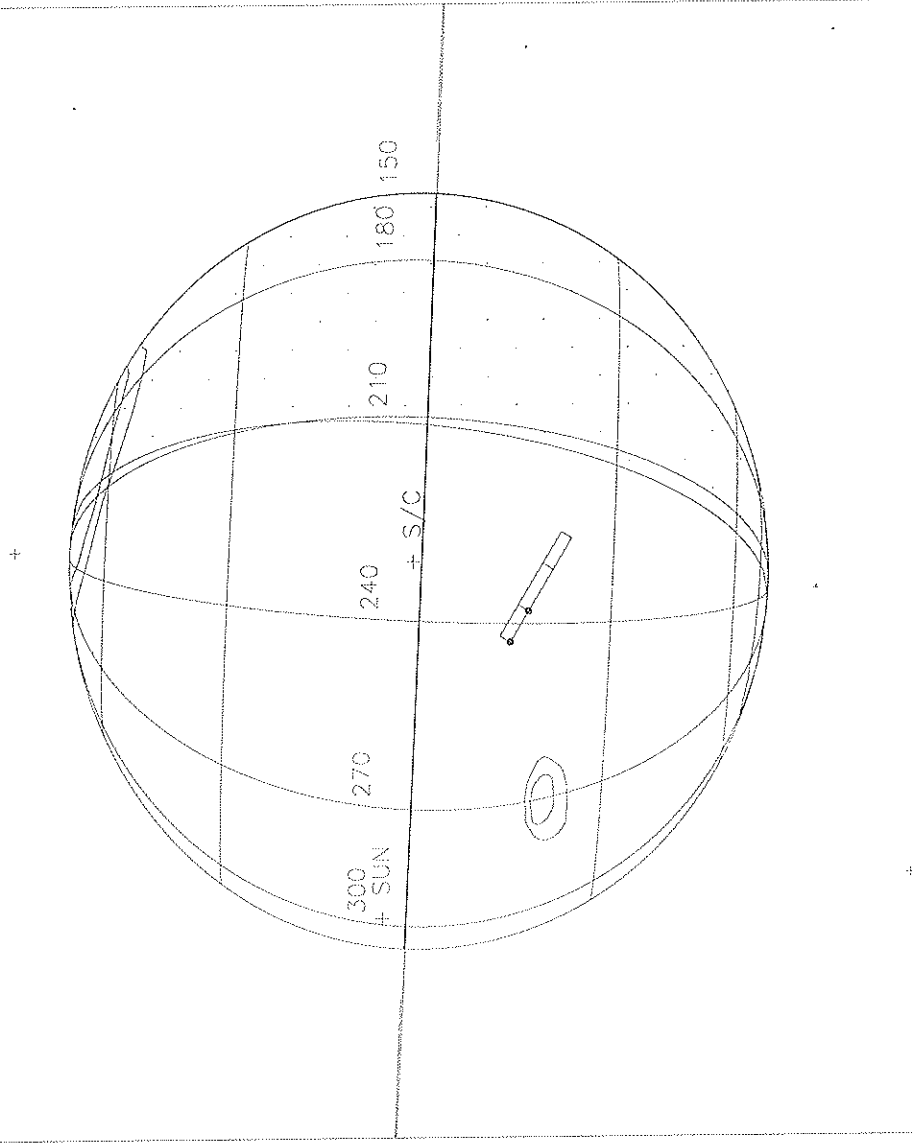


Start UTC.TIME : 1999-124 // 19:41:06.973  
No End Time :  
Start SOLK : 1/04980961:00:00

Target Body : JUPITER  
Target Ra/Dec : 80.87 / 25.20 Deg  
S/C to Body Center : 1314032. Km ( 18.380132 Rj )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Thu Apr 1 19:34:23 1999

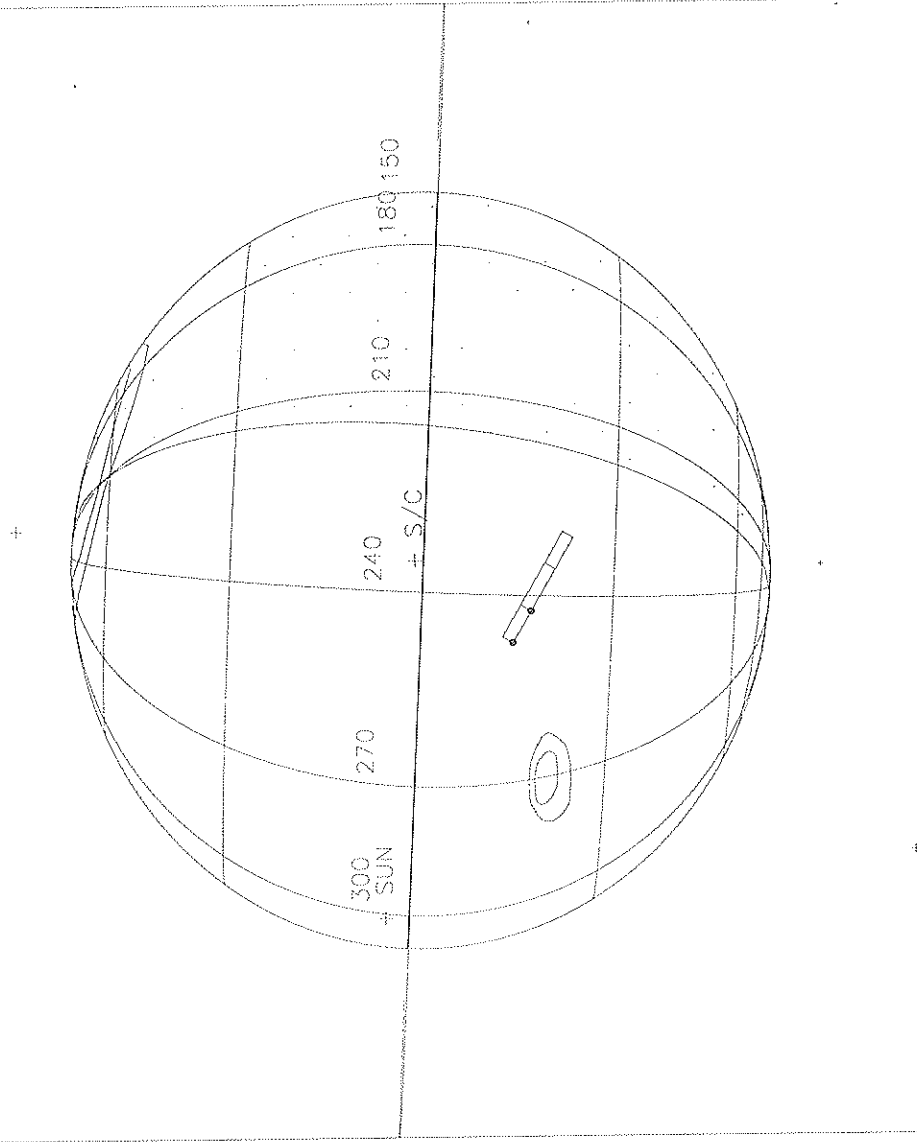
20JUBRITSD09...3



Start UTC TIME : 1999-124 // 19:45:09.639  
No End Time :  
Start SOLX : 1/04980965:00:00  
Target Body : JUPITER  
Target Ra/Dec : 80.98 / 25.20 Deg  
S/C to Body Center : 1316182. Km ( 18.410195 Rj )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.05 Deg

Thu Apr 1 19:35:38 1999

20JUBRITSD09\_L4



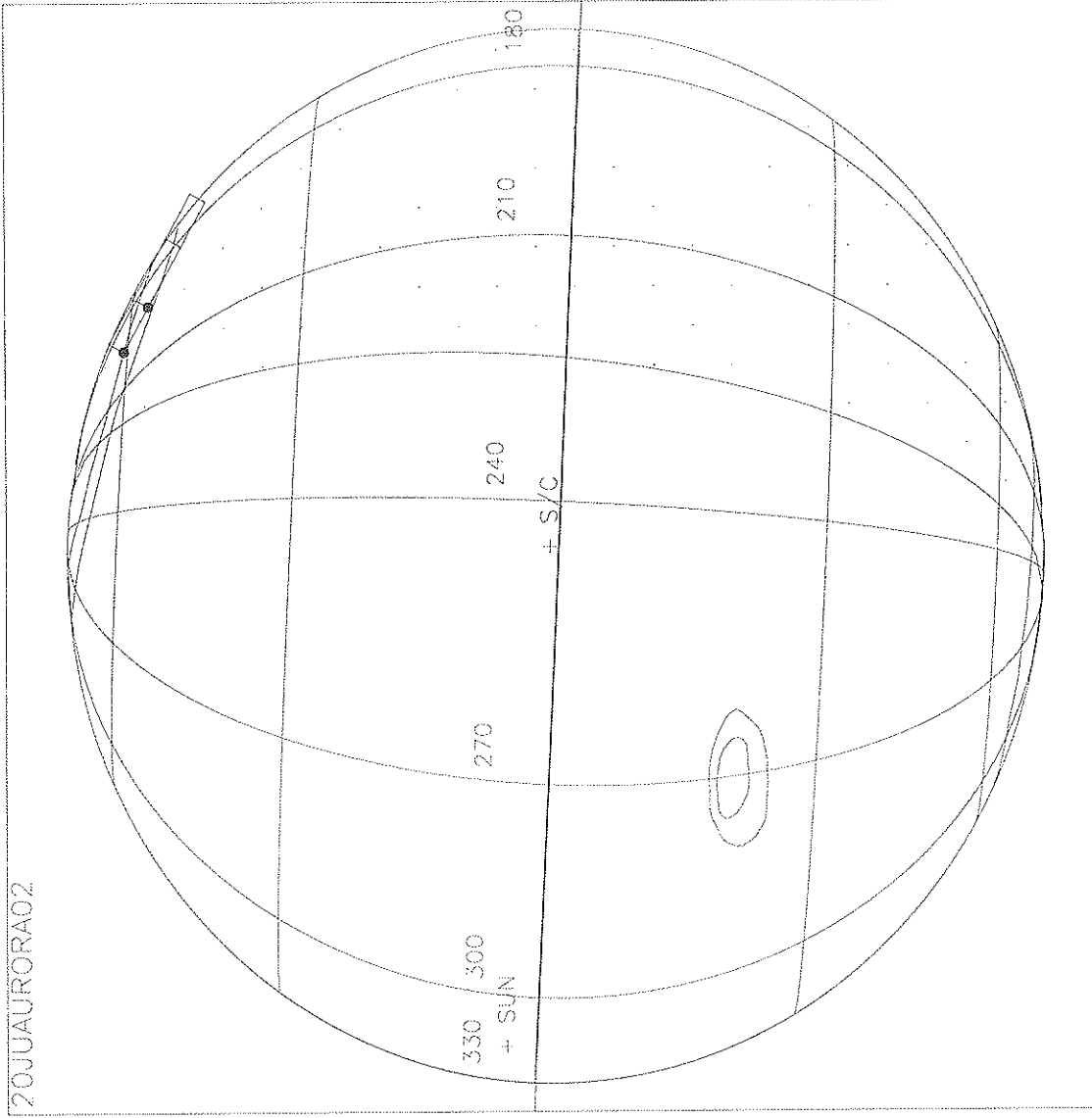
Start UTC TIME : 1999-124 // 19:52:14.306  
No End Time :  
Start SOLK : 1/04980972:00:0:0

Target Body : JUPIER  
Target Ra/Dec : 81.18 / 25.21 Deg  
S/C to Body Center : 1319942. Km ( 18.462850 Rj )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.05 Deg

Activity ID:	Orbit 20	OAPEL JUAURORA	SeqNo	02-			
Title	Aurora north		Instrument	UVS			
Requestor	UVS-AWG/AW.KENTTOBISKA	Team	UVS	Working Group	AWG		
Time System	CDS	Load ID	20A	Calendar Date	05/04/99	Week	70
Start	JEE+CDS 00001608:00:0		99-124/20:06:28.800		JEE+001/03:05:52.000		
End	JEE+CDS 00001615:00:0		99-124/20:13:33.466		JEE+001/03:12:56.666		
Duration	00000007:00:0		000/00:07:04.666		000/00:07:04.666		
Top Label	20JUAURORA02-						
Bottom Label	realtime						
Plot Key	UVS	Type	SCI				
CDS Bytes	94	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>Jupiter aurora observations of Lyman-a and H2 emissions near the 180 (N) longitude. We will attempt to capture the Io fluxtube footprint (IFT) and any fluxtube that maps from Europa to Jupiter to understand long-term magnetosphere and Jovian upper atmosphere interaction. This is a realtime observation for 7 RIMs using Ly-a 88-step mini-scans and is also being recorded as a ridealong with SSI aurora image. Distance from Jupiter = 18.5 Rj.</p> <p>MBTG = 0.017712                      7 RIMs integration time                      recorded ~75 sec (1008*75*0.5) = 0.073 MBTG                      SELECT time                      DESELECT time                      MBTG                      99-124/20:08:33.399    99-124/20:11:56.399    0.073</p> <p>GEM Objective Phase 1 - Magnetospheric interactions</p> </div>							
<b>Design Detail</b>							
PSID	CDS	RIM	COMMAND PARAMETERS				
384AF	00	00:00	COMMENT UVS RIM 0				
157AF	38	00:00	CMDRS PLAN_DUR = 7 RIMS; EST_UVS_CMDS = 2 (34UVS)				
		01:00	1 UVG:DF, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 2C, 7D, 00, 2C				
		07:00	7 OFF:CL, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00				
349AE	28	00:69	UVFLSH DISCRD, UVS				
165QR	00	01:00	TARGET Lat/Lon = 58/182; use SSI target; TMC; plan_dur=5:70:0				
349AF	28	06:69	UVFLSH PACKET, UVS				

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20JUAUROA02



Start UTC\_TIME : 1999-124 // 20:07:24.305  
No End Time :  
Start SCLK : 1/04980987:00:00

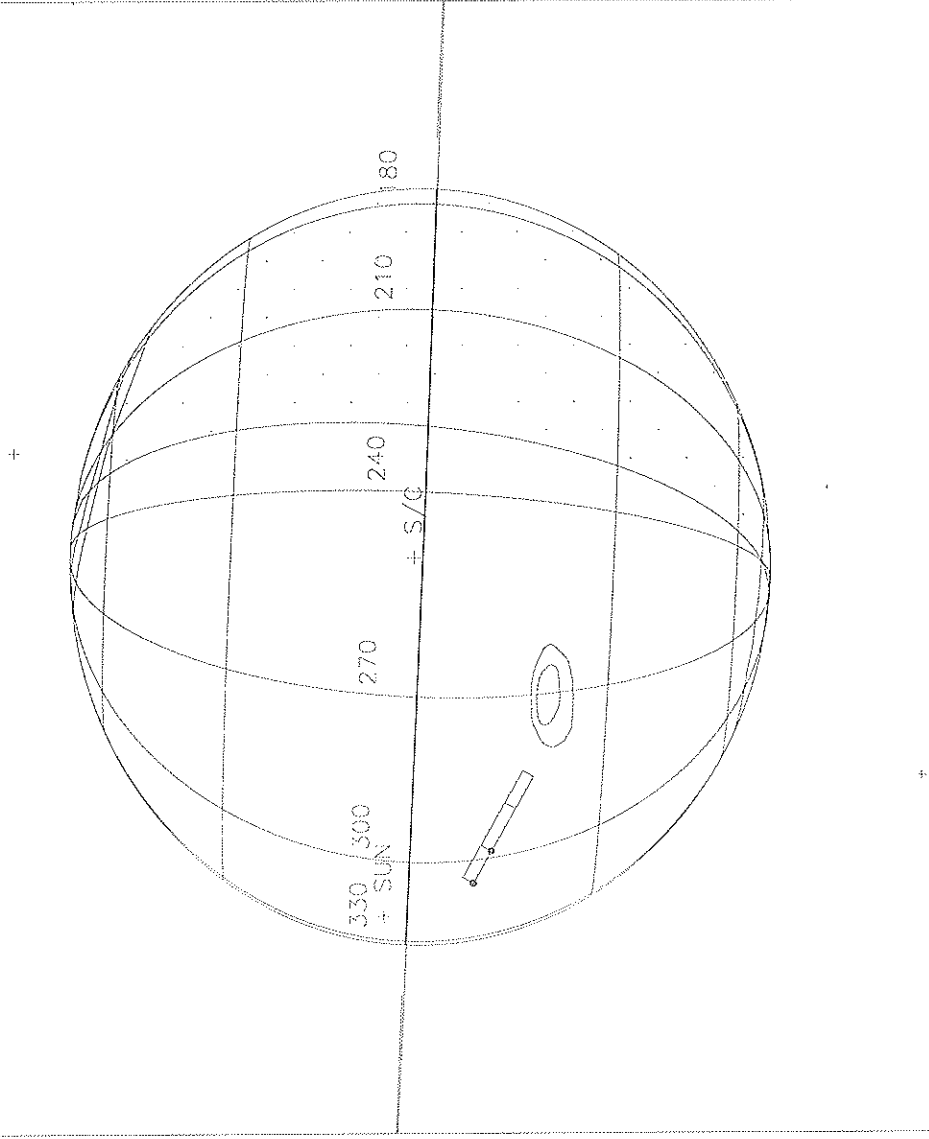
Target Body : JUPITER  
Target Ra/Dec : 81.59 / 25.23 Deg  
S/C to Body Center : 1327999. Km ( 18.575497 RJ )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Activity ID: Orbit 20		OAPEL JUSEBTRK		SeqNo 03-	
Title	UVS AWG feature track			Instrument	UVS
Requestor	UVS-AWG/W. KENT TOBISKA	Team	UVS	Working Group	AWG
Time System	CDS	Load ID	20A	Calendar Date	05/04/99 Week 70
Start	JEE+CDS 00001617:00:0		99-124/20:15:34.800		JEE+001/03:14:58.000
End	JEE+CDS 00001621:00:0		99-124/20:19:37.466		JEE+001/03:19:00.666
Duration	00000004:00:0		000/00:04:02.666		000/00:04:02.666
Top Label	20JUSEBTRK03-				
Bottom Label	realtime				
Plot Key	UVS	Type	SCI		
CDS Bytes	121	Report Options	BOTH		Scan Platform Yes
CDS Source	OAP	Spin State	DUAL		DMS Yes
<b>Observation Objective</b>					
<div style="border: 1px solid black; width: 150px; height: 100px; display: inline-block; vertical-align: top;"></div> <p>20JUSEBTRK03: AWG feature track with SSI to look at south equatorial belt.</p> <p>Rj = 18.5 UVS configuration: full F/F scans.</p> <p>MBTG = 0.017712</p>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384AJ	00	00:00	COMMNT UVS RIM 0		
157AJ	38	00:00	CHDRS PLAN_DUR = 4 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		01:00	1 UVF:07, SCAN, NORM, NORM, NORM, SAME, 0, ON, OFF, OFF, ON, OFF, NOOVR, 1, 00, 9C, 00, 00		
		04:00	4 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
349JQ	28	00:69	UVFLSH DISCRD, UVS		
165CX	27	01:00	TARGET Lat/Lon = -14.94/293.21; (RA/Dec = 04.17/24.59)		
349JR	28	03:69	UVFLSH PACKET, UVS		



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20JUSEBTRK03

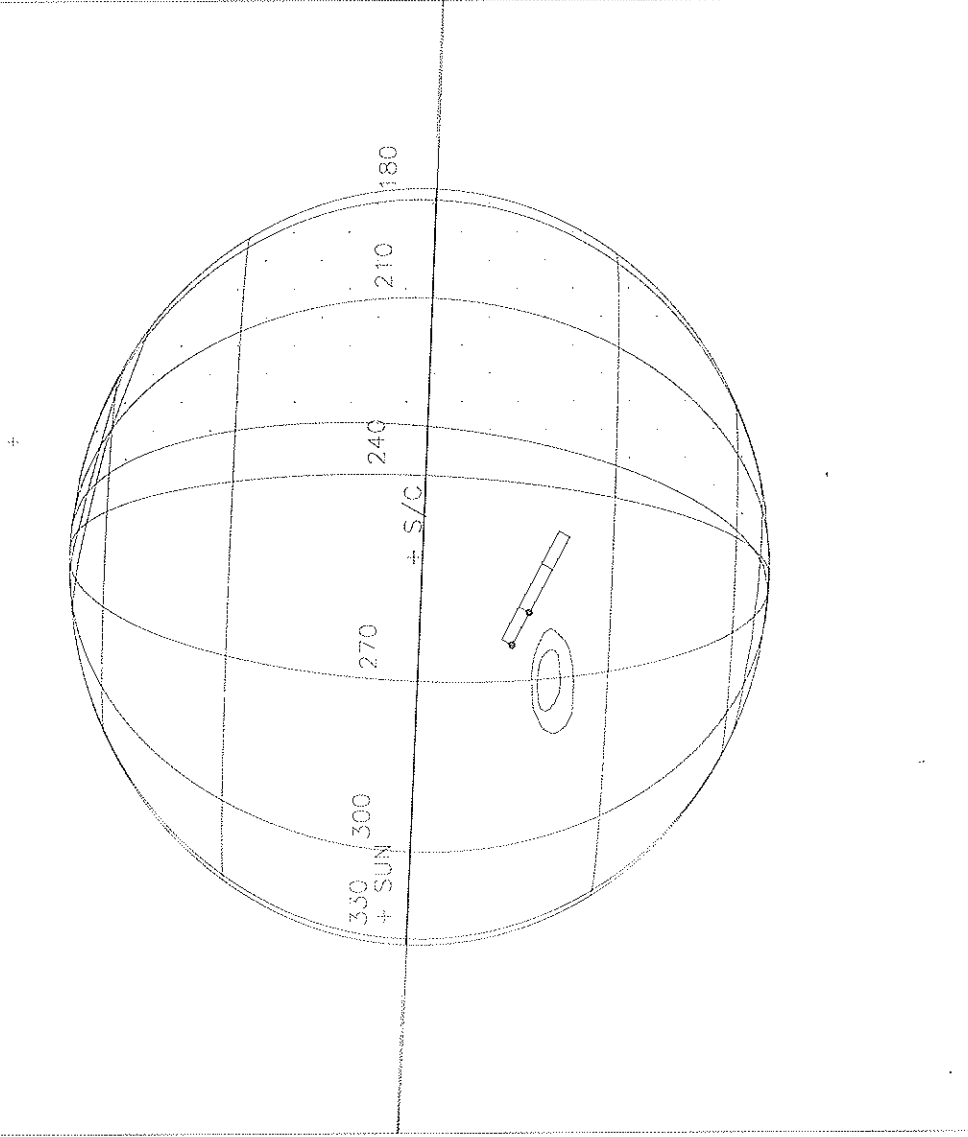


Start UTC\_TIME : 1999-124 // 20:16:30.305  
No End Time :  
Start SCLK : 1/04980996:00:0:0  
Target Body : JUPITER  
Target Ra/Dec : 81.84 / 25.24 Deg  
S/C to Body Center : 1332832. Km ( 18.643096 Rj )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Activity ID: Orbit 20	OAPEL JUBRITSD	SeqNo 10-		
Title	Brightside hydrocarbons	Instrument UVS		
Requestor	UVS-AWG/W.KENT TOBISKA	Team UVS Working Group AWG		
Time System CDS	Load ID 20A	Calendar Date 05/04/99 Week 70		
Start	JEE+CDS 00001621:00:0	99-124/20:19:37.466 JEE+001/03:19:00.666		
End	JEE+CDS 00001640:00:0	99-124/20:38:50.133 JEE+001/03:38:13.333		
Duration	00000019:00:0	000/00:19:12.667 000/00:19:12.667		
Top Label	20JUBRITSD10-			
Bottom Label	realtime			
Plot Key	UVS	Type SCI		
CDS Bytes	240	Report Options BOTH Scan Platform Yes		
CDS Source	OAP	Spin State DUAL DMS No		
<b>Observation Objective</b>				
<p>Observe brightside hydrocarbon emissions to develop a statistically significant acetylene and ammonia spectrum at four latitudes. This study will help understand minor species chemistry related to dynamics in Jupiter's stratosphere/upper troposphere. Low photon count rates require substantial integration time. This is a realtime observation for 6.13 hours during the feature track window using either a G/G 176 step miniscan covering 1496-1755 Å or a G/G full scan at a distance from Jupiter = 18.6 R<sub>J</sub>. 4 observation latitudes are north high and mid lat, south mid and high lat. The lighting and view geometry is designed so that <math>1/\mu + 1/\mu_0 = 3.88</math>.</p> <p>MBTG = 0.017712; 13 RIMS integration time south mid latitude; full-scan G/G GEM Objective Phase 2 - Jupiter atm. dynamics</p>				
<b>Design Detail</b>				
PSIB	CDS	RIM	COMMAND	PARAMETERS
384AV	00	00:00	COMMNT	UVS RIM 0
157AV	94	00:00	CMDRS	PLAN_DUR = 19 RIMS; EST_UVS_CMDS = 6 (34UVS)
		01:00	1	UVG:07, SCAN, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 2C, 9D, 00, 00
		05:00	5	OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00
		08:00	8	UVG:07, SCAN, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 2C, 9D, 00, 00
		10:00	10	OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00
		12:00	12	UVG:07, SCAN, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 2C, 9D, 00, 00
		19:00	19	OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00
349JR	00	-00:69	UVFLSH	(previous observation zeros buffer)
165CV	27	01:00	TARGET	Lat/Lon = -19.5/255.8 (RA/Dec = 82.15/24.29) [3.8815]
165CZ	27	08:00	TARGET	Lat/Lon = -19.5/260.1 (RA/Dec = 82.34/24.30) [3.8791]
165BZ	27	12:00	TARGET	Lat/Lon = -19.5/262.6 (RA/Dec = 82.46/24.31) [3.8728]
117BZ	37	14:00	CSWOS	#_strip=1; obs_slw_rt=0.02; repo_dur=0.46; strip_dur=3.45; cn_del_s=-1.7
349KF	28	18:69	UVFLSH	PACKET,UVS

Thu Apr 1 19:50:28 1999

20JUBRITSDT0\_1

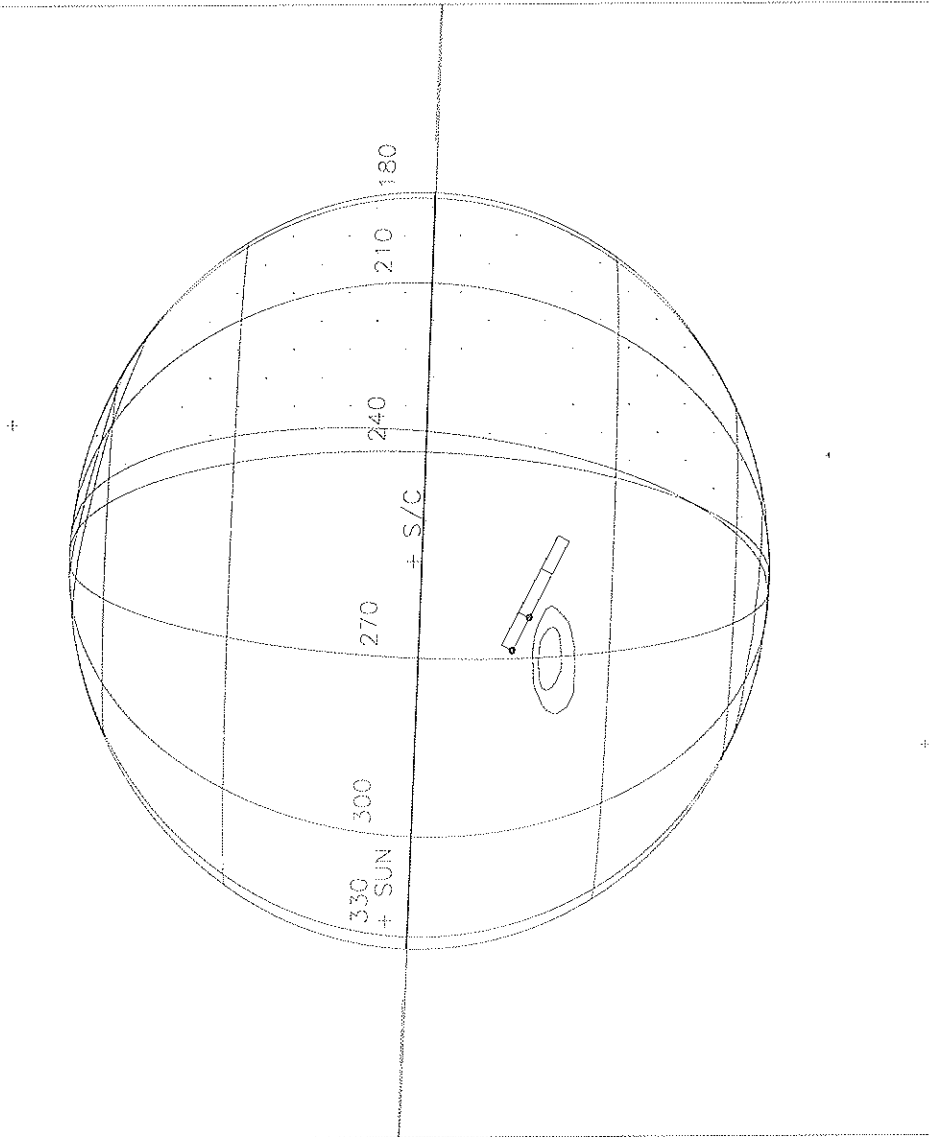


Start UTC\_TIME : 1999-124 // 20:20:32.971  
No End Time :  
Start SOLX : 1/04981000:00:00

Target Body : JUPITER  
Target Ra/Dec : 81.95 / 25.24 Deg  
S/C to Body Center : 133497; Km ( 18.673135 RJ )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Thu Apr 1 19:51:31 1999

20JUBRTSD10...2

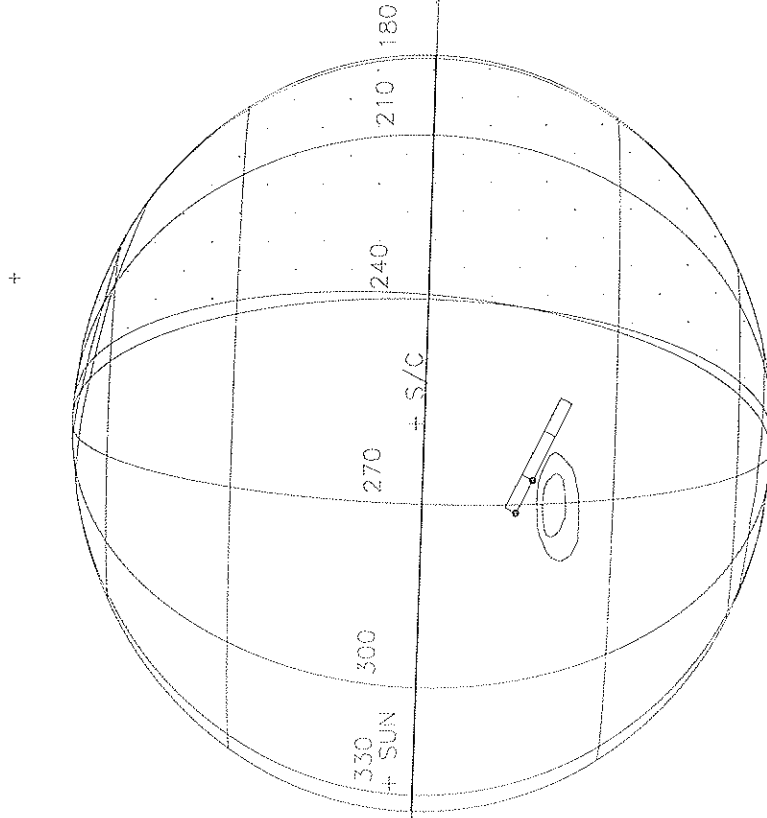


Start UTC\_TIME : 1999-124 // 20:27:37.638  
No End Time :  
Start SCLX : 1/04981007:00:0:0

Target Body : JUPITER  
Target Ra/Dec : 62.14 / 25.25 Deg  
S/C to Body Center : 1388737. Km ( 18.725695 Rj )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Thu Apr 1 19:52:51 1999

20JUBRITSD10.3



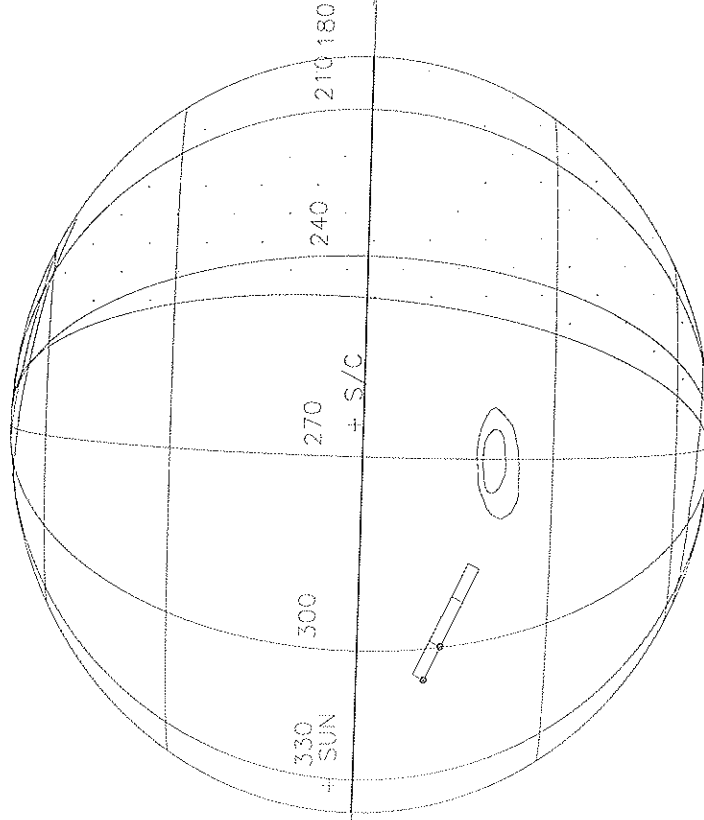
Start UTC TIME : 1999-124 // 20:31:40.304  
No End Time :  
Start SOLAR : 1/04981011:00:00

Target Body : JUPITER  
Target Rc/Dec : 82.25 / 25.25 Deg  
S/C to Body Center : 1340884. Km ( 16.755726 RJ )  
Z-axis Pointing ( Rc / Dec ) : 198.35 / -3.05 Deg

<b>Activity ID:</b> Orbit 20		OAPEL JUSEBTRK		<b>SeqNo</b> 13-	
<b>Title</b>	UVS AWG feature track			<b>Instrument</b>	UVS
<b>Requestor</b>	UVS-AWG/W.KENTTOBISKA	<b>Team</b>	UVS	<b>Working Group</b>	AWG
<b>Time System</b>	CDS	<b>Load ID</b>	20A	<b>Calendar Date</b>	05/04/99
				<b>Week</b>	70
<b>Start</b>	JEE+CDS 00001644:00:0		99-124/20:42:52.800		JEE+001/03:42:16.000
<b>End</b>	JEE+CDS 00001648:00:0		99-124/20:46:55.466		JEE+001/03:46:18.666
<b>Duration</b>	00000004:00:0		000/00:04:02.666		000/00:04:02.666
<b>Top Label</b>	20JUSEBTRK13-				
<b>Bottom Label</b>	realtime				
<b>Plot Key</b>	UVS	<b>Type</b>	SCI		
<b>CDS Bytes</b>	121	<b>Report Options</b>	BOTH		
<b>CDS Source</b>	OAP	<b>Spin State</b>	DUAL		
		<b>Scan Platform</b>	Yes		
		<b>DMS</b>	Yes		
<b>Observation Objective</b>					
<div style="border: 1px solid black; width: 150px; height: 100px; display: inline-block; vertical-align: top;"></div> <p>20JUSEBTRK13: AWG feature track with SSI to look at south equatorial belt.</p> <p>Rj = 18.7</p> <p>UVS configuration: full F/F scans.</p> <p>MBTG = 0.017712</p>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384AW	00	00:00	COMMENT UVS RIM 0		
157AW	38	00:00	CHDRS PLAN_DUR = 4 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		01:00	1 UVF: 07, SCAN, NORM, NORM, NORM, SAME, 0, ON, OFF, OFF, ON, OFF, NOOVR, 1, 00, 9C, 00, 00		
		04:00	4 OFF: C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
349JS	28	00:69	UVFLSH DISCRD, UVS		
165BY	27	01:00	TARGET Lat/Lon = -15.00/295.58; (RA/Dec = 84.24/24.59)		
349JT	28	03:69	UVFLSH PACKET, UVS		

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20JUSEBTRK13



Start UTC TIME : 1999-124 // 20:43:48.304  
No End Time :  
Start SCLK : 1/04981023:00:0:0

Target Body : JUPITER  
Target Ra/Dec : 82.57 / 25.27 Deg  
S/C to Body Center : 1347324. Km ( 18.845796 Rj )  
Z-axis Pointing ( Ra / Dec ) : 192.35 / -3.06 Deg

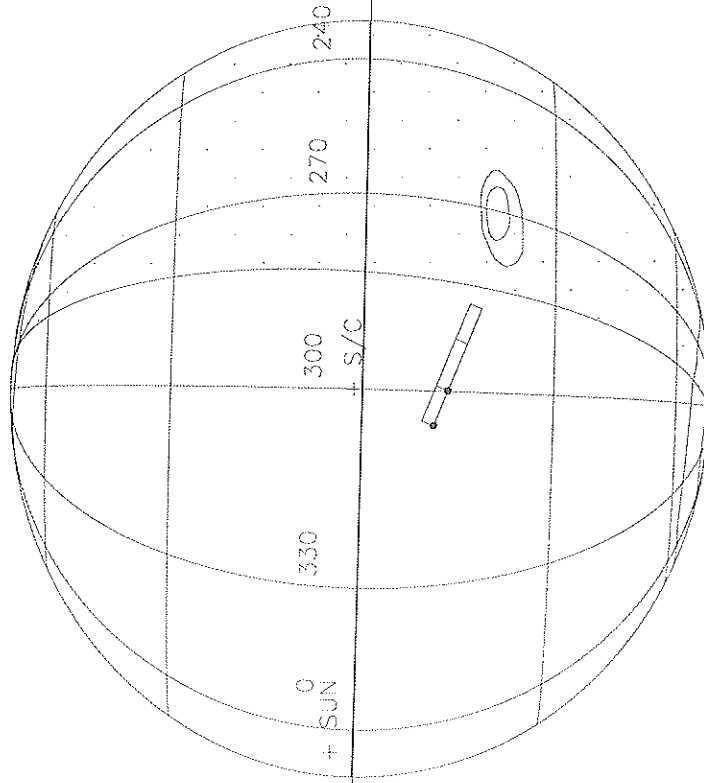
Activity ID: Orbit 20		OAPEL JUSEBTRK		SeqNo 23-	
Title	UVS AWG feature track			Instrument	UVS
Requestor	UVS-AWG/W. KENT TOBISKA	Team	UVS	Working Group	AWG
Time System	CDS	Load ID	20A	Calendar Date	05/04/99 Week 70
Start	JEE+CDS 00001703:00:0		99-124/21:42:32.133	JEE+001/04:41:55.333	
End	JEE+CDS 00001707:00:0		99-124/21:46:34.800	JEE+001/04:45:58.000	
Duration	00000004:00:0		000/00:04:02.667	000/00:04:02.667	
Top Label	20JUSEBTRK23-				
Bottom Label	realtime				
Plot Key	UVS	Type	SCI		
CDS Bytes	121	Report Options	BOTH	Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL	DMS	Yes
<b>Observation Objective</b>					
<div style="border: 1px solid black; width: 200px; height: 150px; display: inline-block; vertical-align: top;"></div> <p>20JUSEBTRK23: AWG feature track with SSI to look at south equatorial belt.</p> <p>Rj = 19.3</p> <p>UVS configuration: full F/F scans.</p> <p>MBTG = 0.017712</p>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384AZ	00	00:00	COMMT UVS RIM 0		
157AZ	38	00:00	CMDRS PLAN_DUR = 4 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		01:00	1 UVP:07,SCAN,NORM,NORM,NORM,SAME,0,ON,OFF,OFF,ON,OFF,NOOVR,1,00,9C,00,00		
		04:00	4 OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00		
349JW	28	00:69	UVFLSH DISCRD,UVS		
165BR	27	01:00	TARGET Lat/Lon = -15.04/296.07; (RA/Dec = 83.82/24.58)		
349JX	28	03:69	UVFLSH PACKET,BOTH (packet 20TV20NANS01 EUV data also)		



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20JUSEBTRK23

+



+

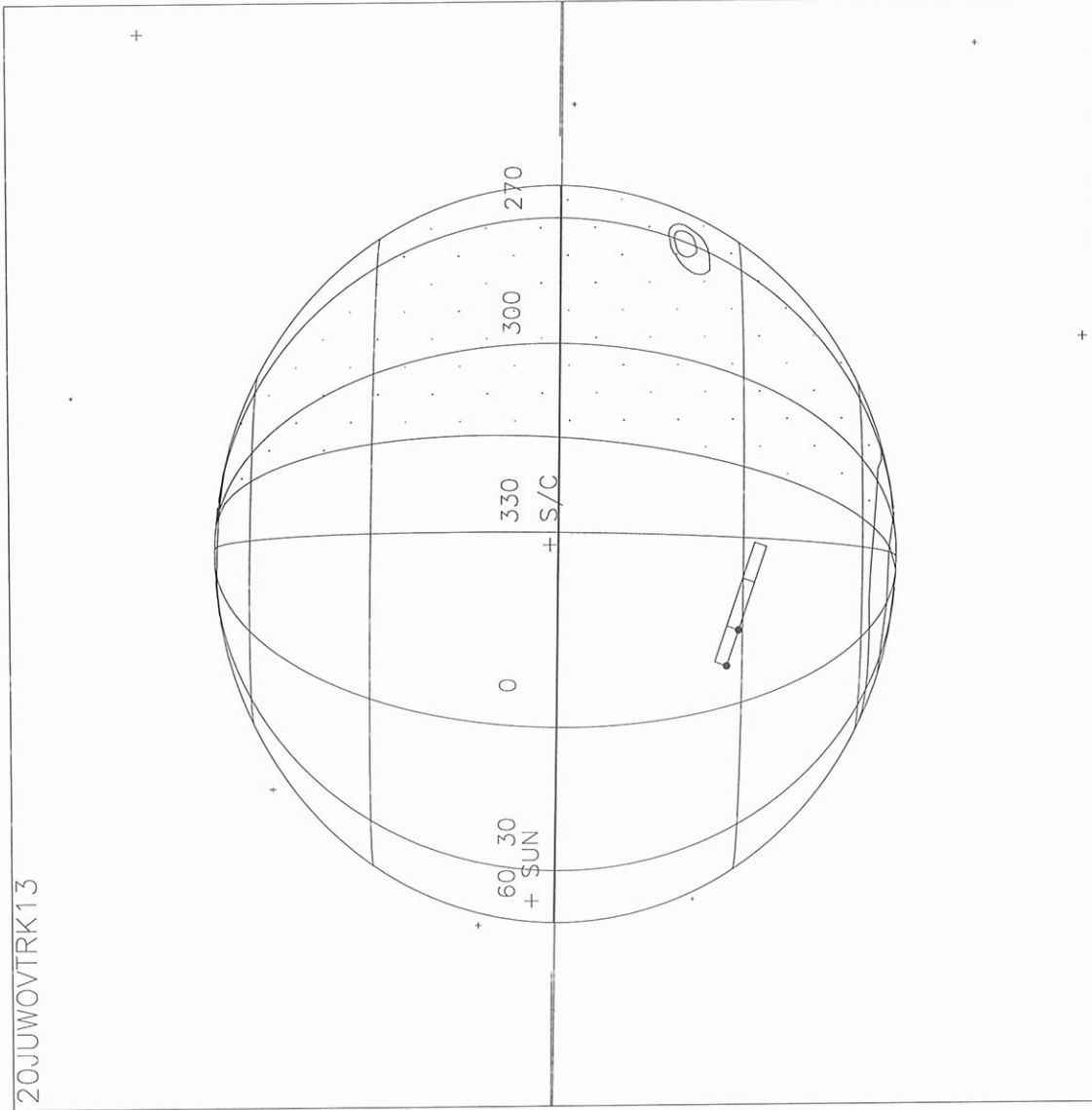
Start UTC TIME : 1999-124 // 21:43:27.535  
No End Time :  
Start SCLK : 1/04981082:00:0:0

Target Body : JUPITER  
Target Ra/Dec : 84.11 / 25.31 Deg  
S/C to Body Center : 1378947. Km ( 19.288136 Rj )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Activity ID: Orbit 20		OAPEL JUWOVTRK		SeqNo 13-	
Title	UVS AWG feature track			Instrument	UVS
Requestor	UVS-AWG/W. KENT TOBISKA	Team	UVS	Working Group	AWG
Time System	CDS	Load ID	20A	Calendar Date	05/04/99
				Week	70
Start	JEE+CDS 00001757:00:0		99-124/22:37:08.133		JEE+001/05:36:31.333
End	JEE+CDS 00001761:00:0		99-124/22:41:10.800		JEE+001/05:40:34.000
Duration	00000004:00:0		000/00:04:02.667		000/00:04:02.667
Top Label	20JUWOVTRK13-				
Bottom Label	realtime				
Plot Key	UVS	Type	SCI		
CDS Bytes	121	Report Options	BOTH		Scan Platform Yes
CDS Source	OAP	Spin State	DUAL		DMS Yes
<b>Observation Objective</b>					
<div style="border: 1px solid black; width: 150px; height: 100px; display: inline-block; vertical-align: top;"></div> 20JUWOVTRK13: AWG feature track with SSI to look at white ovals. Rj = 19.6 UVS configuration: full F/F scans. MBTG = 0.017712					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384EX	00	00:00	COMBNT UVS RIM 0		
157EX	38	00:00	CMDRS PLAN_DUR = 4 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		01:00	1 UVF:07, SCAN, NORM, NORM, NORM, SAME, 0, ON, OFF, OFF, ON, OFF, NOOVR, 1, 00, 9C, 00, 00		
		04:00	4 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
349JY	28	00:69	UVFLSH DISCRD, UVS		
165BJ	27	01:00	TARGET Lat/Lon = -32.99/341.74; (RA/Dec = 85.92/23.86)		
349JZ	28	03:69	UVFLSH PACKET, UVS		

Thu Apr 1 20:16:38 1999

20JUWVTRK13

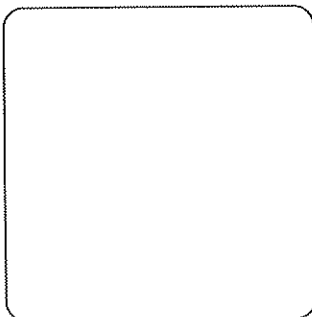


Start UTC\_TIME : 1999-124 // 22:38:03.633  
No End Time :  
Start SCLK : 1/04981136:00:00

Target Body : JUPITER  
Target Ra/Dec : 85.47 / 25.34 Deg  
S/C to Body Center : 1407829. Km ( 19.692120 Rj )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Activity ID:	Orbit 20	OAPEL JUBRITSD	SeqNo	14-			
Title	Brightside hydrocarbons		Instrument	UVS			
Requestor	UVS-AWG/AV. KENT TOBISKA	Team	UVS	Working Group	AWG		
Time System	CDS	Load ID	20A	Calendar Date	05/04/99	Week	70
Start	JEE+CDS 00001774:00:0		99-124/22:54:19.466		JEE+001/05:53:42.666		
End	JEE+CDS 00001811:00:0		99-124/23:31:44.133		JEE+001/06:31:07.333		
Duration	00000037:00:0		000/00:37:24.667		000/00:37:24.667		
Top Label	20JUBRITSD14-						
Bottom Label	realtime						
Plot Key	UVS	Type	SCI				
CDS Bytes	305	Report Options	BOTH	Scan Platform	Yes		
CDS Source	OAP	Spin State	DUAL	DMS	No		

**Observation Objective**



Observe brightside hydrocarbon emissions to develop a statistically significant acetylene and ammonia spectrum at four latitudes. This study will help understand minor species chemistry related to dynamics in Jupiter's stratosphere/upper troposphere. Low photon count rates require substantial integration time. This is a realtime observation for 6.13 hours during the feature track window using either a G/G 176 step miniscan covering 1496-1755 Å or a G/G full scan at a distance from Jupiter = 19.8 R<sub>J</sub>. 4 observation latitudes are north high and mid lat, south mid and high lat. The lighting and view geometry is designed so that  $1/\mu + 1/\mu_0 = 3.88$ .

MBTG = 0.017712; 25 RIMS integration time  
 south high latitude; 176-step mini-scan G/G  
 GEM Objective Phase 2 - Jupiter atm. dynamics

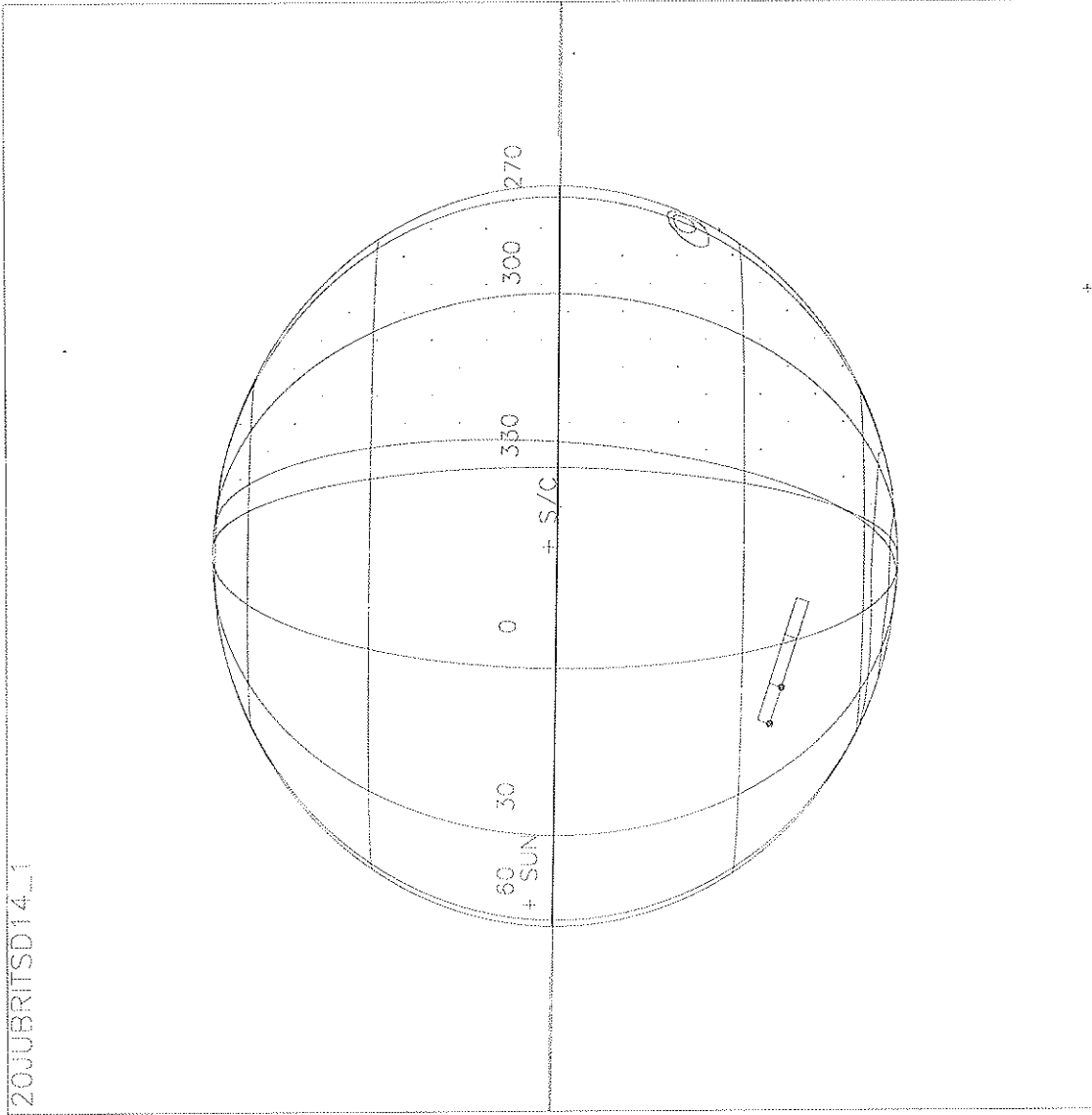
**Design Detail**

```

PSID  CDS  RIM  COMMAND PARAMETERS
384BW 00  00:00  COMMENT UVS RIM 0
157BW 94  00:00  CMDRS  PLAN_DUR = 37 RIMS; EST_UVS_CMDS = 6 (34UVS)
      01:00    1  UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00
      12:00   12  OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00
      22:00   22  UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00
      33:00   33  OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00
      34:00   34  UVG:E3, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, ON, OFF, NOOVR, 1, 1A, 8E, 00, 00
      37:00   37  OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00
349AZ 28  00:69  UVFLSH  DISCRD, UVS
165BI 27  01:00  TARGET  Lat/Lon = -42/3.6 (RA/Dec = 86.78/23.54) [3.8736]
117BI 37  03:00  CSMOS   #_strip=2; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-1.6
165BI 27  22:00  TARGET  Lat/Lon = -42/16.2 (RA/Dec = 87.28/23.56) [3.8831]
117BI 37  24:00  CSMOS   #_strip=2; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-1.6
165BI 27  34:00  TARGET  Lat/Lon = -42/23.5 (RA/Dec = 87.57/23.57) [3.8869]
349AY 28  36:69  UVFLSH  RACKET, UVS
    
```

Mon Apr 5 22:31:31 1999

20JUBRITSD14\_1



Start UTC TIME : 1999-124 // 22:55:14.966

No End Time :

Start SCLK : 1/04981153:00:00

Target Body : JUPITER

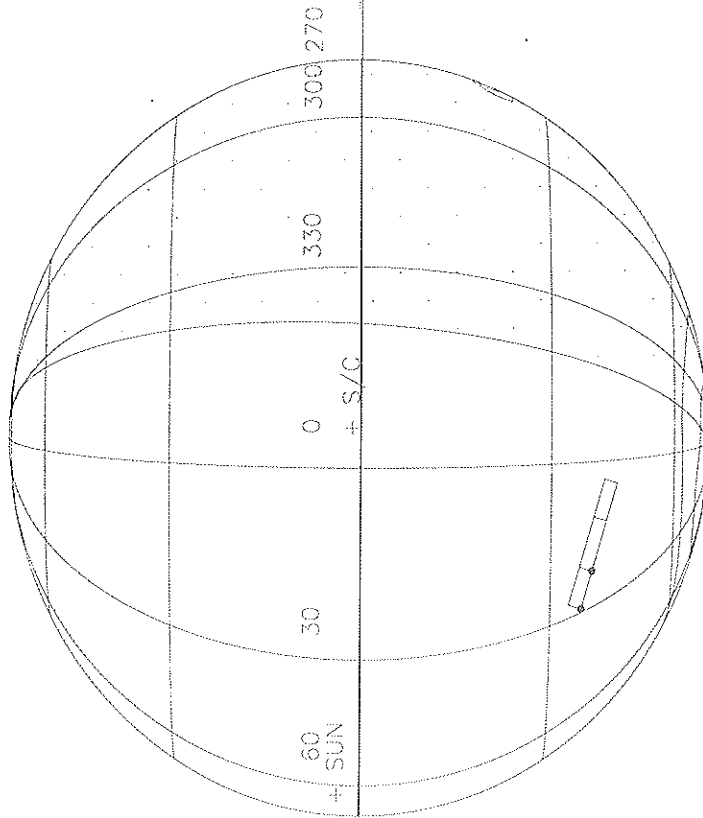
Target Ra/Dec : 85.88/ 25.34 Deg

S/C to Body Center : 1416907. Km ( 19.819104 Rj )

Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Mon Apr 5 22:33:57 1999

20JUBRTSD14\_2

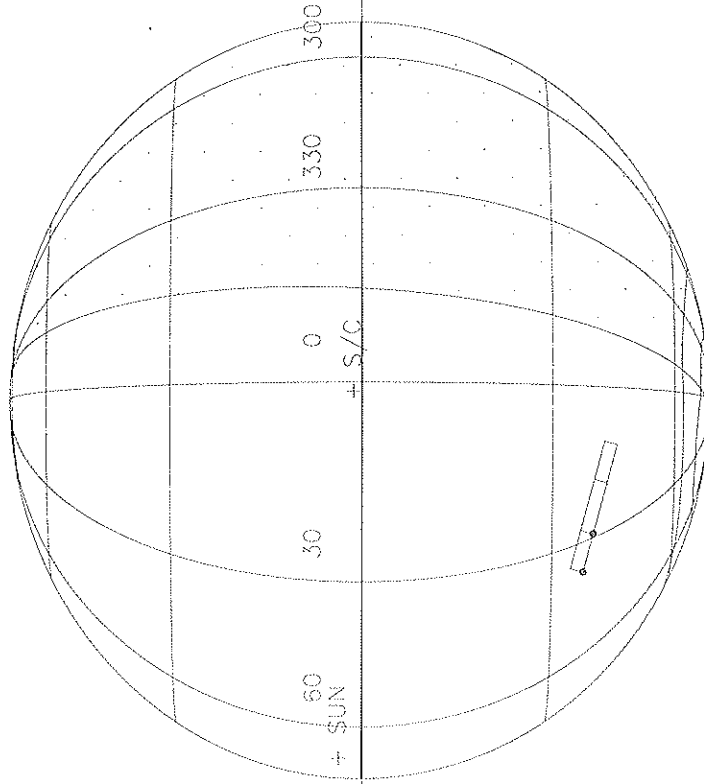


Start UTC\_TIME : 1999-124 // 23:16:28.965  
No End Time :  
Start SCLK : 1/04981174:00:0:0

Target Body : JUPITER  
Target Ra/Dec : 86.39 / 25.35 Deg  
S/C to Body Center : 1428112. Km ( 19.975825 Ri )  
Z-axis Pointing ( Rc / Dec ) : 198.35 / -3.06 Deg

Mon Apr 5 22:37:00 1999

20JUBRITSD14\_L3



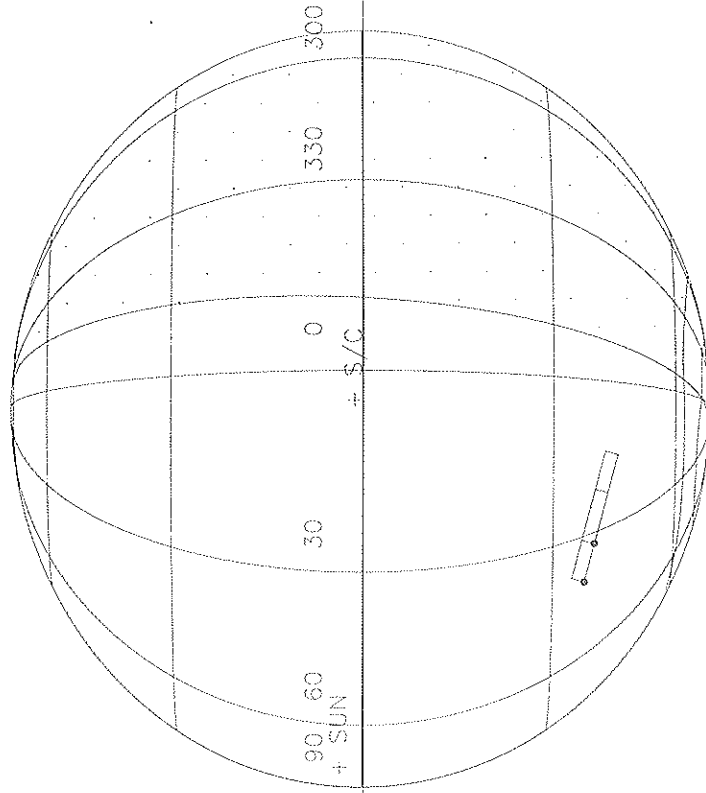
Start UTC TIME : 1999-124 // 23:28:35.965  
No End Time :  
Start SOLK : 1/04981186:00:00  
Target Body : JUPITER  
Target Ra/Dec : 86.67 / 25.35 Deg  
S/C to Body Center : 1434509. Km ( 20.065307 R )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Activity ID: Orbit 20		OAPEL JUBRITSD		SeqNo 15-	
Title	Brightside hydrocarbons			Instrument	UVS
Requestor	UVS-AWGAW.KENTTOBISKA	Team	UVS	Working Group	AWG
Time System	CDS	Load ID	20A	Calendar Date	05/04/99
Week	70				
Start	JEE+CDS 00001812:00:0	99-124/23:32:44.800		JEE+001/06:32:08.000	
End	JEE+CDS 00001844:00:0	99-125/00:05:06.133		JEE+001/07:04:29.333	
Duration	00000032:00:0	000/00:32:21.333		000/00:32:21.333	
Top Label	20JUBRITSD15-				
Bottom Label	realtime				
Plot Key	UVS	Type	SCI		
CDS Bytes	268	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>Observe brightside hydrocarbon emissions to develop a statistically significant acetylene and ammonia spectrum at four latitudes. This study will help understand minor species chemistry related to dynamics in Jupiter's stratosphere/upper troposphere. Low photon count rates require substantial integration time. This is a realtime observation for 6.13 hours during the feature track window using either a G/G 176 step miniscan covering 1496-1755 Å or a G/G full scan at a distance from Jupiter = 20.0 R<sub>J</sub>. 4 observation latitudes are north high and mid lat, south mid and high lat. The lighting and view geometry is designed so that <math>1/\mu + 1/\mu_0 = 3.88</math>.</p> <p>NBTG = 0.017712; 27 RIMS integration time south high latitude; full-scan G/G GEM Objective Phase 2 - Jupiter atm. dynamics</p> </div>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384BW	00	00:00	COMMENT UVS RIM 0		
157BW	94	00:00	CMDRS PLAN_DUR = 32 RIMS; EST_UVS_CMDS = 6 (34UVS)		
		01:00	1 UVG:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,ON,OFF,NOOVR,1,2C,9D,00,00		
		07:00	7 OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00		
		09:00	9 UVG:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,ON,OFF,NOOVR,1,2C,9D,00,00		
		24:00	24 OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00		
		26:00	26 UVG:07,SCAN,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,ON,OFF,NOOVR,1,2C,9D,00,00		
		32:00	32 OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00		
349AX	28	00:69	UVFLSH DISCRD,UVS		
165BF	27	01:00	TARGET Lat/Lon = -42/26.7 (RA/Dec = 87.69/23.57) [3.8874]		
165BE	27	09:00	TARGET Lat/Lon = -42/31.5 (RA/Dec = 87.88/23.58) [3.8877]		
117BE	37	11:00	CSMOS #_strip=3; obs_slw_rt=0.02; repo_dur=0:46; strip_dur=3:45; cn_del_s=-1.6		
165BD	27	26:00	TARGET Lat/Lon = -42/42.0 (RA/Dec = 88.28/23.59) [3.8855]		
349BW	28	31:69	UVFLSH PACKET,UVS		



Mon Apr 5 22:39:31 1999

20JUBRITSD15.L1

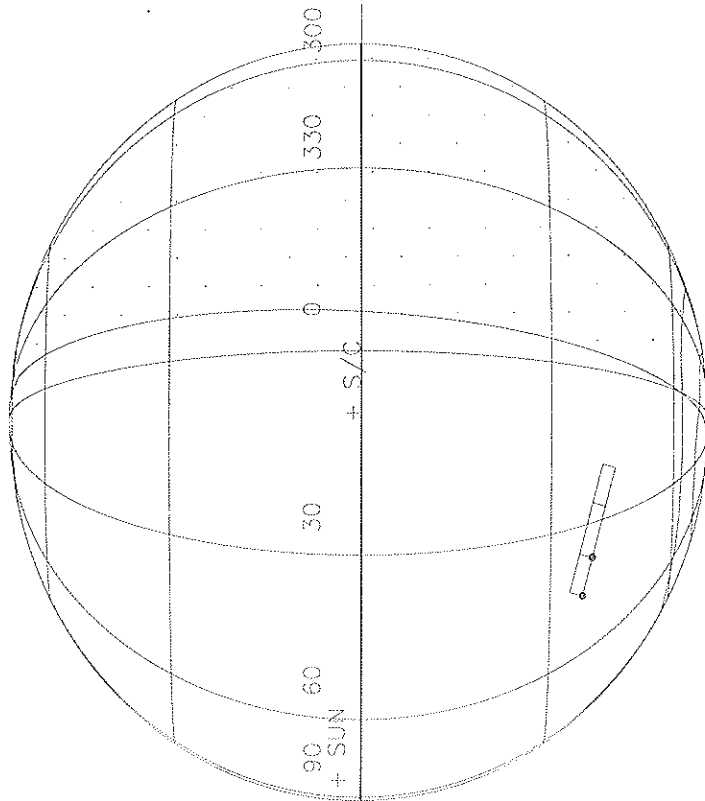


Start UTC\_Time : 1999-124 // 23:33:40.298  
No End Time :  
Start SCLK : 1/0/98119:00:0:0

Target Body : JUPITER  
Target Ra/Dec : 86.79 / 25.35 Deg  
S/C to Body Center : 1437173. Km ( 20.102575 RJ )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Mon Apr 5 22:40:39 1999

20JUBRITSD15\_2



Start UTC TIME : 1999-124 // 23:41:45.631

No End Time :

Start SCLK : 1/04991199:00:0:0

Target Body : JUPITER

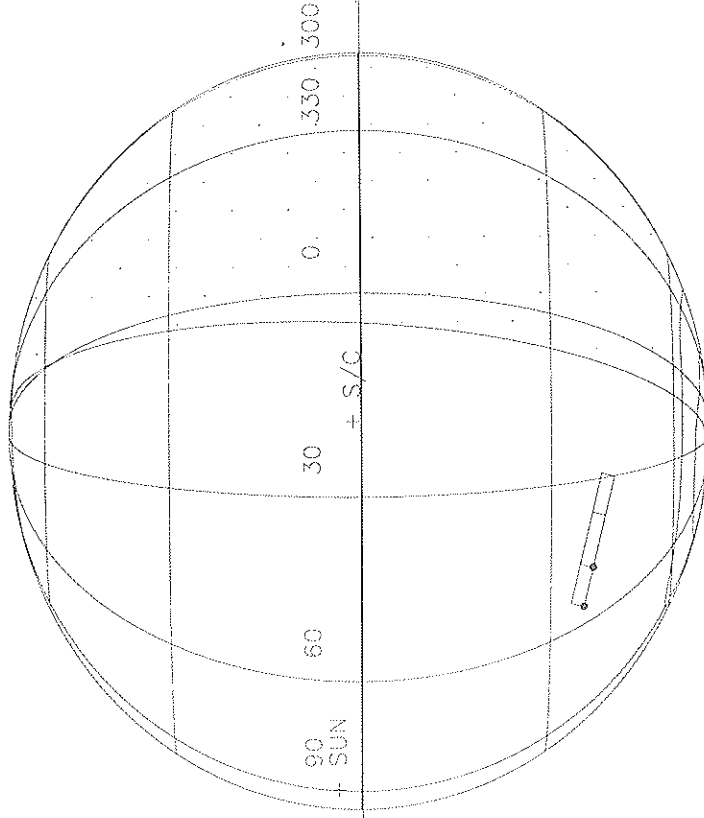
Target Ra/Dec : 86.98 / 25.35 Deg

S/C to Body Center : 1441435. Km ( 20.162165 Rj )

Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.03 Deg

Mon Apr 5 22:42:27 1999

20JUBRITSD15\_3

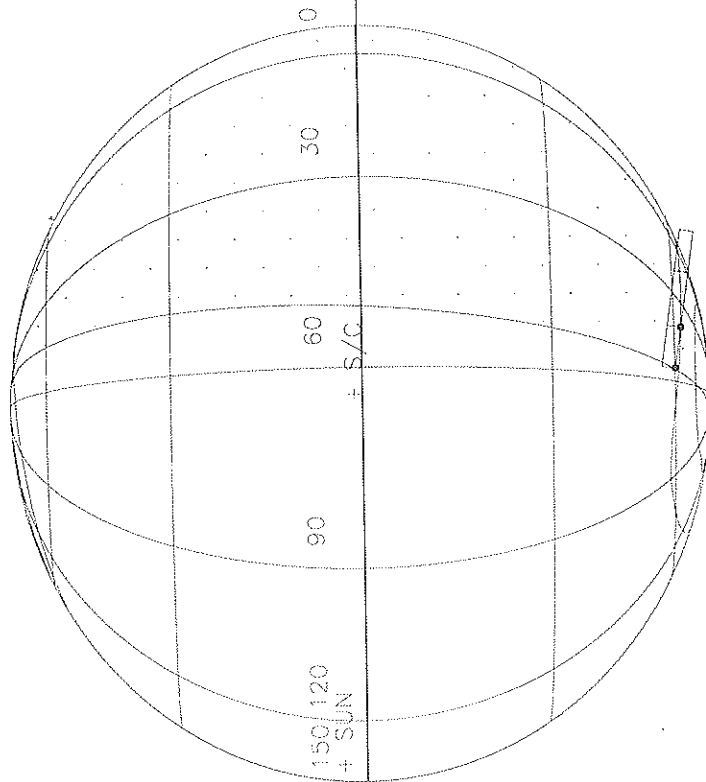


Start UTC\_TIME : 1999-124 // 23:58:55.964  
No End Time :  
Start SCLK : 1/04981215:00:0:0  
Target Body : JUPITER  
Target Ra/Dec : 87.37 / 25.36 Deg  
S/C to Body Center : 1450485. Km ( 20.288772 R )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Activity ID: Orbit 20		OAPEL JUAURORA		SeqNo 01-	
Title	Aurora south	Instrument		UVS	
Requestor	UVS-AWG/W.KENTTOBISKA	Team	UVS	Working Group AWG	
Time System	CDS	Load ID	20A	Calendar Date	05/05/99
				Week	70
Start	JEE+CDS 00001912:00:0		99-125/01:13:51.466		JEE+001/08:13:14.666
End	JEE+CDS 00002006:00:0		99-125/02:48:54.133		JEE+001/09:48:17.333
Duration	0000094:00:0		000/01:35:02.667		000/01:35:02.667
Top Label	20JUAURORA01-				
Bottom Label	realtime				
Plot Key	UVS	Type	SCI		
CDS Bytes	185	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>Jupiter aurora observations of Lyman-a and H2 emissions near the 80 (S) longitude. We will attempt to capture the Io fluxtube footprint (IPT) and any fluxtube that maps from Europa to Jupiter to understand long-term magnetosphere and Jovian upper atmosphere interaction. This is a realtime observation for 1.5 hours using G full-scans and extended N scans to suppress solar scattered light and boost H2 A-B ctm signal at a distance from Jupiter = 20.7 Rj. This is the same command used once in C3JUDRKNEW01.</p> <p>MBTG = 0.035424</p> <p>GEM Objective Phase 1 - Magnetospheric interactions</p> </div>					
<b>Design Detail</b>					
PSID	CDS	RIM	COMMAND PARAMETERS		
384EP	00	00:00	COMMNT UVS RIM 0		
157EP	38	01:00	CGDRS PLAN_DUR = 93 RIMS; EST_UVS_CMDS = 2 (34UVS)		
		02:00	1 UVN:E7, FIXED, NORM, NORM, NORM, SAME, 0, OFF, ON, ON, ON, OFF, NOOVR, 1, 00, 9C, 01, 2C		
		94:00	93 OFF:C1, FIXED, NORM, NORM, NORM, SAME, 0, OFF, OFF, ON, OFF, OFF, NOOVR, 1, 2C, 05, 00, 00		
349AT	28	01:69	UVFLSH DISCRD, UVS		
165OZ	54	02:00	TARGET Lat/Lon = -65/30; (RA/Dec = 88.28/23.01); no TMC		
117GZ	37	02:00	CSMOS #_strip=4; obs_slw_rt=0.01; repo_dur=11:46; strip_dur=11:45; cn_del_s=-4.5; cone_del_r=-3.5		
349AS	28	46:69	UVFLSH PACKET, UVS (1)		
349BK	00	94:69	UVFLSH (20TV20NANS01 observation packets the data)		

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20JUAURORA01

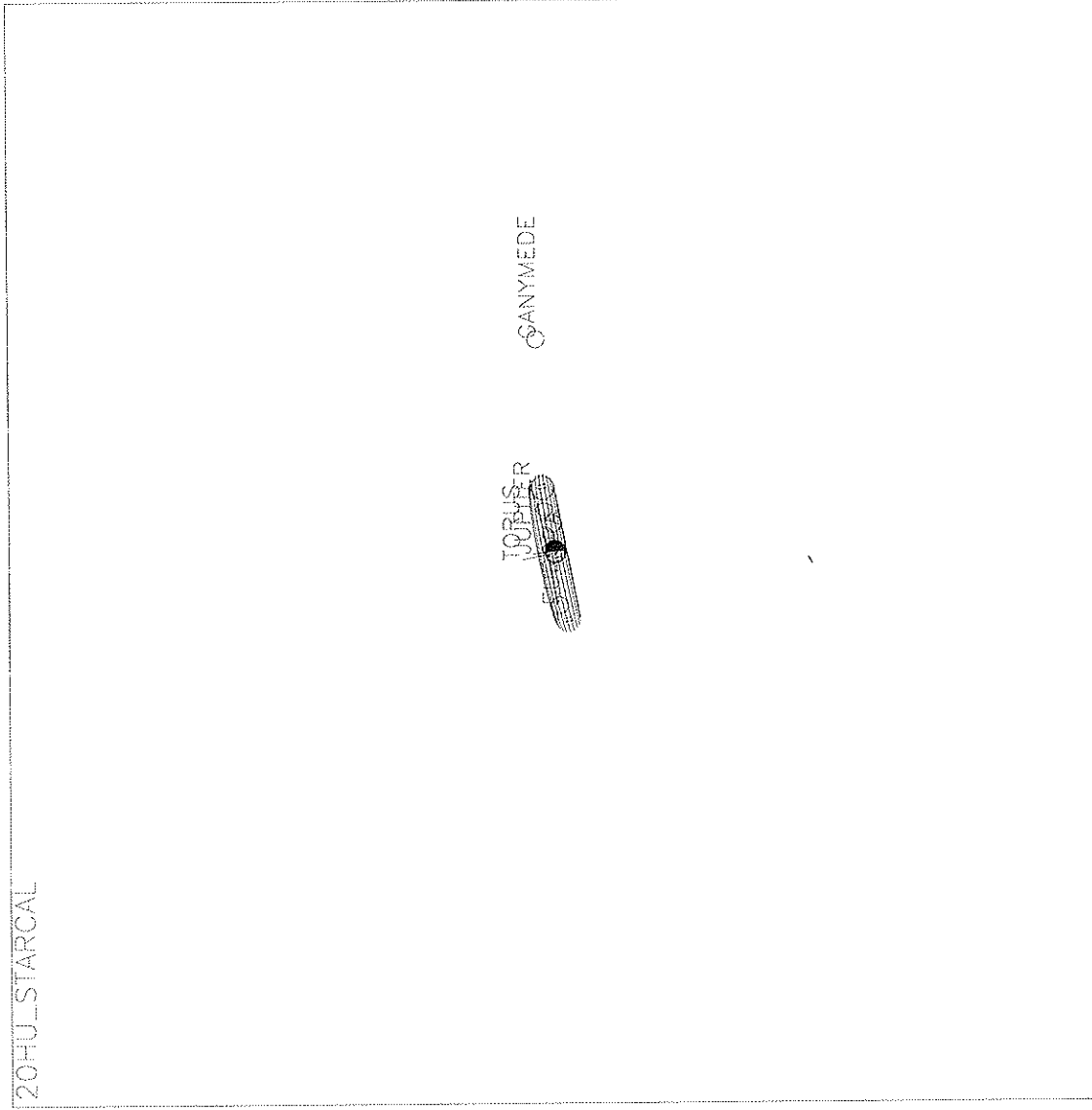


Start UTC TIME : 1999-125 // 01:15:47.628  
No End Time :  
Start SCLK : 1/04981292.00:0:0  
Target Body : JUPITER  
Target Ra/Dec : 89.08 / 25.35 Deg  
S/C to Body Center : 1490839. Km ( 20.863235 Ri )  
Z-axis Pointing ( Ra / Dec ) : 198.35 / -3.06 Deg

Activity ID: Orbit 20	OAPEL HU_STARC	SeqNo	AL-
Title	Star Calibration	Instrument	UVS
Requestor	UVS-AWG/W. KENT TOBISKA	Team	UVS
		Working Group	AWG
Time System	CDS	Load ID	20A
		Calendar Date	05/05/99
		Week	70
Start	JEE+CDS 00002555:00:0	99-125/12:04:00.133	JEE+001/19:03:23.333
End	JEE+CDS 00002664:00:0	99-125/13:54:12.800	JEE+001/20:53:36.000
Duration	00000109:00:0	000/01:50:12.667	000/01:50:12.667
Top Label	20HU_STARCAL-		
Bottom Label	realtime		
Plot Key	UVS	Type	SCI
CDS Bytes	200	Report Options	BOTH
		Scan Platform	Yes
CDS Source	OAP	Spin State	DUAL
		DMS	No
<b>Observation Objective</b>			
<p>Star cross calibration between UVS and EUV on Lyman-alpha sky background and star calibration on Sirius at RA/Dec = 100.73/-16.659, type A061, mag -1.6. This is a realtime observation using F/N and F/G full scans at a distance from Jupiter = 25.4 Rj.</p> <p>MBTG = 0.035424 52 RIMS integration time each flush</p> <p>GEM Objective Phase 1 - instrument calibration</p> <p>[Ly-a flux (Tom Woods) = 20 ph cm-2 s-1 A-1] S/C RA/Dec = 192.9/-4.0</p>			
<b>Design Detail</b>			
PSID	CDS	RIM	COMMAND PARAMETERS
384BS	00	00:00	COMMNT UVS RIM 0
157BS	52	03:00	CMDRS PLAN_DUR = 106 RIMS; EST_UVS_CMDS = 3 (34UVS)
		04:00	1 UVF:07,SCAN,NORM,NORM,NORM,SAME,0,ON,ON,OFF,ON,OFF,NOOVR,1,00,9C,01,2C
		56:00	53 UVF:07,SCAN,NORM,NORM,NORM,SAME,0,ON,OFF,ON,ON,OFF,NOOVR,1,00,9C,01,2C
		109:00	106 OFF:C1,FIXED,NORM,NORM,NORM,SAME,0,OFF,OFF,ON,OFF,OFF,NOOVR,1,2C,05,00,00
349AP	28	03:69	UVFLSH DISCRD,UVS
165GY	27	04:00	TARGET RA/Dec = 102.04/-16.48 (using cone_off=-21.5; x_cone_off=-5.0)
117GY	37	04:00	CSMOS 2 slews, 52 RIMS per slew & reposition; +-22 mrad box
349AO	28	55:69	UVFLSH PACKET,UVS (1) F/N
349AN	28	108:69	UVFLSH PACKET,UVS (2) F/G
<p>[Note: can know slew rate accurately from SCANOPS; larger slew direction gets 100% of the slew rate and small slew direction gets proportional slew rate.]</p>			

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20HU\_STARCAL



Start UTC TIME : 1999 - 125 // 12:07:57.604  
No End Time :  
Start CLK : 1/04981857:00:00

Target Body : JUPITER  
Target Ro/Dec : 100.56 / 24.80 Deg  
S/C to Body Center : 1824792. Km ( 25.524426 Rj )  
Z-axis Pointing ( Ro / Dec ) : 198.35 / -3.06 Deg