



13679 - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Cycle: 22, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) EUROPA-TA205-1	STIS/CCD STIS/FUV-MAMA	3	06-Apr-2015 21:00:40.0	yes
02	(2) EUROPA-TA205-2	STIS/CCD STIS/FUV-MAMA	3	06-Apr-2015 21:00:43.0	yes

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
03	(3) EUROPA-TA205-3	STIS/CCD STIS/FUV-MAMA	4	06-Apr-2015 21:00:46.0	yes
04	(4) EUROPA-TA205-4	STIS/CCD STIS/FUV-MAMA	4	06-Apr-2015 21:00:48.0	yes
06	(6) EUROPA-OLG90-1+2	STIS/CCD STIS/FUV-MAMA	3	06-Apr-2015 21:00:51.0	yes
07	(18) EUROPA-OLG90-1+2-COPY	STIS/CCD STIS/FUV-MAMA	5	06-Apr-2015 21:00:55.0	yes
09	(8) EUROPA-ORBCOV-1	STIS/CCD STIS/FUV-MAMA	3	06-Apr-2015 21:00:58.0	yes
10	(9) EUROPA-ORBCOV-2+3	STIS/CCD STIS/FUV-MAMA	3	06-Apr-2015 21:01:00.0	yes
11	(19) EUROPA-ORBCOV-2+3-COPY	STIS/CCD STIS/FUV-MAMA	4	06-Apr-2015 21:01:02.0	yes
12	(10) EUROPA-ORBCOV-4	STIS/CCD STIS/FUV-MAMA	5	06-Apr-2015 21:01:05.0	yes
13	(13) IO-ACQ (16) EUROPA-ECLIPSE-COPY	STIS/CCD STIS/FUV-MAMA	2	06-Apr-2015 21:01:07.0	yes
14	(11) EUROPA-ECLIPSE (13) IO-ACQ	STIS/CCD STIS/FUV-MAMA	2	06-Apr-2015 21:01:09.0	yes
15	(13) IO-ACQ (20) EUROPA-ECLIPSE-COPY-1	STIS/CCD STIS/FUV-MAMA	2	06-Apr-2015 21:01:11.0	yes
16	(13) IO-ACQ (23) EUROPA-ECLIPSE-COPY-2	STIS/CCD STIS/FUV-MAMA	2	06-Apr-2015 21:01:13.0	yes
24	(13) IO-ACQ (16) EUROPA-ECLIPSE-COPY	STIS/CCD STIS/FUV-MAMA	1	06-Apr-2015 21:01:14.0	yes
17	(12) EUROPA-TRANSIT (13) IO-ACQ	STIS/CCD STIS/FUV-MAMA	2	06-Apr-2015 21:01:15.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
18	(12) EUROPA-TRANSIT (13) IO-ACQ	STIS/CCD STIS/FUV-MAMA	2	06-Apr-2015 21:01:19.0	yes
19	(14) GANYMEDE-ACQ (17) EUROPA-TRANSIT2	STIS/CCD STIS/FUV-MAMA	2	06-Apr-2015 21:01:20.0	yes
23	(13) IO-ACQ (17) EUROPA-TRANSIT2	STIS/CCD STIS/FUV-MAMA	2	06-Apr-2015 21:01:21.0	yes
20	(12) EUROPA-TRANSIT (14) GANYMEDE-ACQ	STIS/CCD STIS/FUV-MAMA	2	06-Apr-2015 21:01:23.0	yes
21	(12) EUROPA-TRANSIT (13) IO-ACQ	STIS/CCD STIS/FUV-MAMA	2	06-Apr-2015 21:01:24.0	yes
22	(21) EUROPA-TRANSIT2-COPY (22) EUROPA-ACQ	STIS/CCD STIS/FUV-MAMA	2	06-Apr-2015 21:01:26.0	yes

60 Total Orbits Used

ABSTRACT

The discovery of transient water vapor plumes near Europa's south pole (Roth et al. 2014) has important implications for the search for life in our Solar System. Europa's subsurface water ocean is thought to provide all the ingredients needed for a habitable environment. The plumes might enable direct sampling of Europa's subsurface constituents and provide insights into the chemistry, mobility, and extent of the liquid water environments. In STIS spectral images obtained in Dec. 2012, the intensity ratios of atomic H and O auroral emissions uniquely identify the source as electron impact excitation of water molecules. However, a confirmation of the initial detection has not yet been achieved, and non-detections from four out of five previous such visits suggest a complex and possibly episodic variation in plume activity. We have identified five potential variability sources for plume activity and detectability and propose a focused program to systematically constrain Europa's plumes and their variability pattern. Our constraints for the plume activity on Europa are vital inputs for key programmatic decisions regarding NASA's next large mission to Europa.

OBSERVING DESCRIPTION

The STIS G140L observing mode with the 52"x2" slit is used to globally observe Europa at FUV wavelengths. 23 visits are scheduled in a way that optimizes the coverage of three parameters potentially connected to plume activity and detectability: (1) Europa's orbital true anomaly (TA), (2)

Europa's sub-observer central meridian longitude (CML of Europa from Earth) and (3) the time period around Jupiter opposition.

12 visits target the FUV emissions of Europa in sunlight. The observed atmospheric HI 121.6 nm (Lyman-alpha) emissions in combination with the relative brightness of OI 130.4 nm and OI 135.6 nm oxygen emissions are suitable to unambiguously identify H₂O abundances at the limb. 4 visits are scheduled in eclipse to search for plume features over the entire disk without interference from surface reflected sunlight. 7 visits are scheduled with Europa transiting Jupiter to search for Lyman-alpha H₂O absorption features of Jupiter's dayglow.

Acquisition exposures of 0.1 sec are taken at the beginning of each visit. For the eclipse and transit observations a suitable neighboring satellite (Io, Ganymede or Callisto) will be used for the STIS/CCD acquisition exposures. Io is used as standard acquisition target for Europa in transit or eclipse. Ganymede and Callisto are used so far only for specific visits where no time slots were available in the visit planer with Io as acquisition target due to low visibility. The best suitable satellite for acquisition should be chosen individually for each visit in the final scheduling of the eclipse and transit observations.

Europa's orbital true anomaly (TA) can not be defined by a parameter in the APT. The argument of the pericenter of Europa's orbit changes in time and thus the TA changes with respect to e.g. the orbital longitude (OLG of Europa) from one orbit to the next (by ~20 deg/month). By constraining the observing period and Europa's CML (or OLG) for each visit we indirectly set the required constraints on the TA.

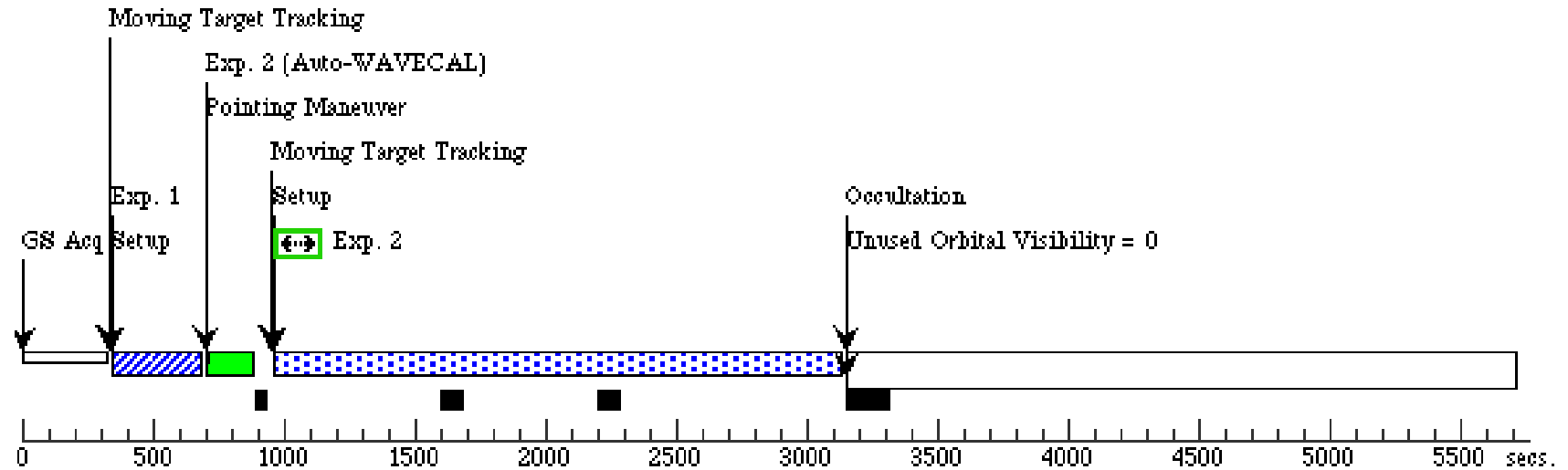
The additional parameter of the CML OF JUPITER FROM EUROPA is set to constrain that Europa is (1) at low Jovian magnetic latitudes to maximize the aurora signal during the observation in eclipse and at western/eastern elongations, and (2) at high Jovian latitudes to minimize the aurora signal during the transit absorption observations.

Proposal 13679 - TA205-1 (01) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, TA205-1 (01), completed Tue Apr 07 01:01:27 GMT 2015									
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 50%; BETWEEN 06-NOV-2014:00:00:00 AND 29-NOV-2014:00:00:00 <i>Comments: Targeted true anomaly interval: 177 < TA < 233 deg</i>									
Diagnostics	(Exposure 2 (TA205-1 (01))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 3 (TA205-1 (01))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 4 (TA205-1 (01))) Warning (Form): Sensitive exposures should have an ETC run number provided.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(1)	EUROPA-TA205-1	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-TA205-1 JUPITER FROM EARTH GT 25", SEP OF EUROPA-TA205-1 CALLISTO FROM EARTH GT 5", SEP OF EUROPA-TA205-1 IO FROM EARTH GT 5", SEP OF EUROPA-TA205-1 GANYMEDE FROM EARTH GT 5", CML OF EUROPA FROM EARTH BETWEEN 215 253, NOT CML OF JUPITER FROM EUROPA BETWEEN 179 215, NOT CML OF JUPITER FROM EUROPA BETWEEN 0 35	EARTH			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) EUROPA-TA205-1	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=19; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]	[1]
	2		(1) EUROPA-TA205-1	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			1800 Secs (2119 Secs) [==>2119.0 Secs]	[1]
	3		(1) EUROPA-TA205-1	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2894 Secs) [==>2894.0 Secs]	[2]
	4		(1) EUROPA-TA205-1	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2854 Secs) [==>2854.0 Secs]	[3]

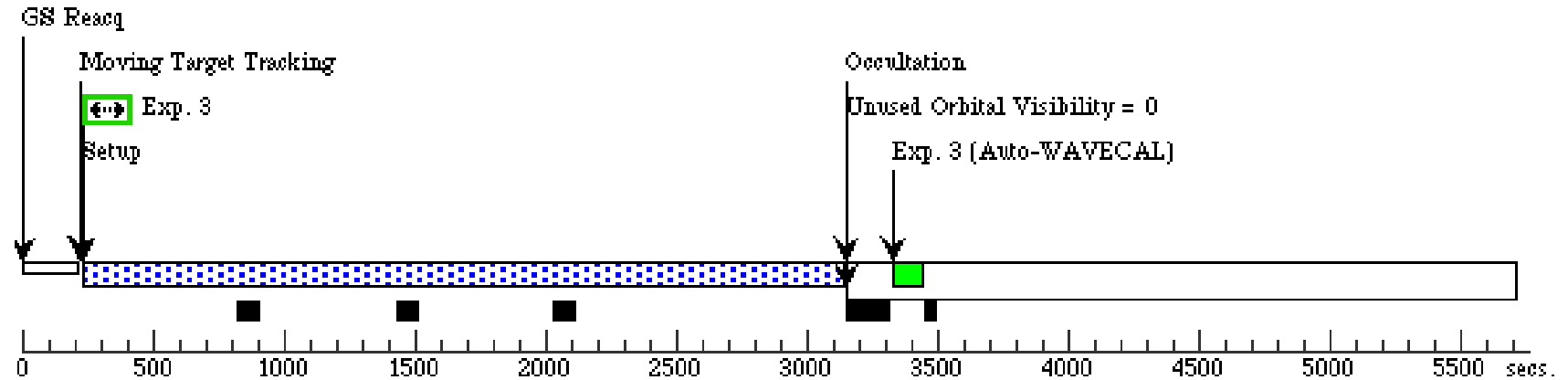
Orbit 1

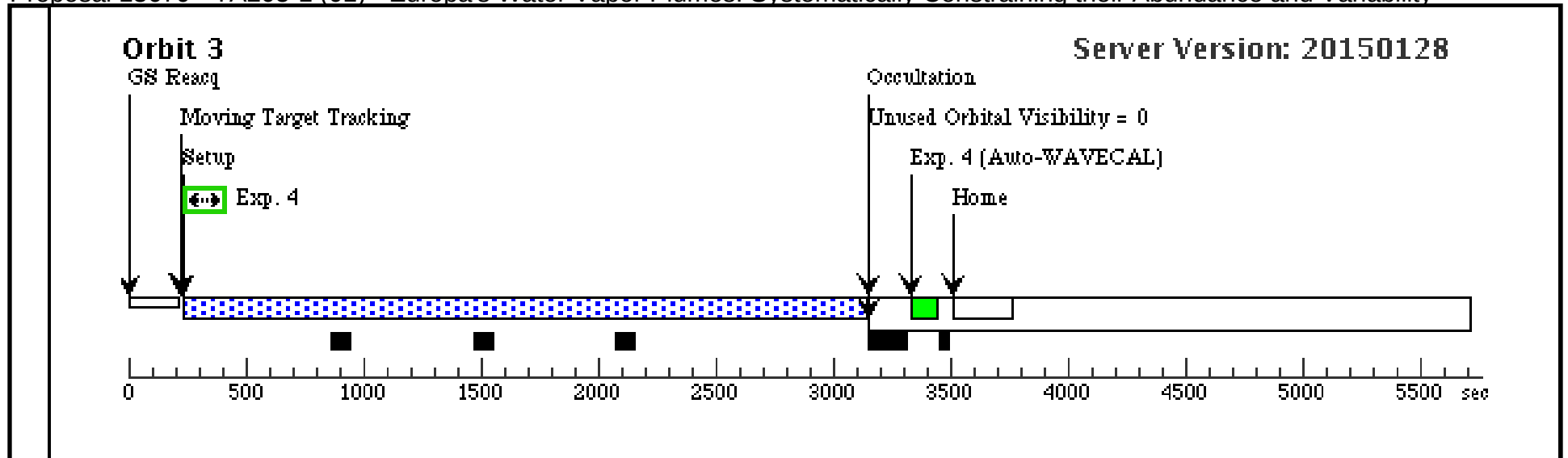
Server Version: 20150128



Orbit 2

Server Version: 20150128



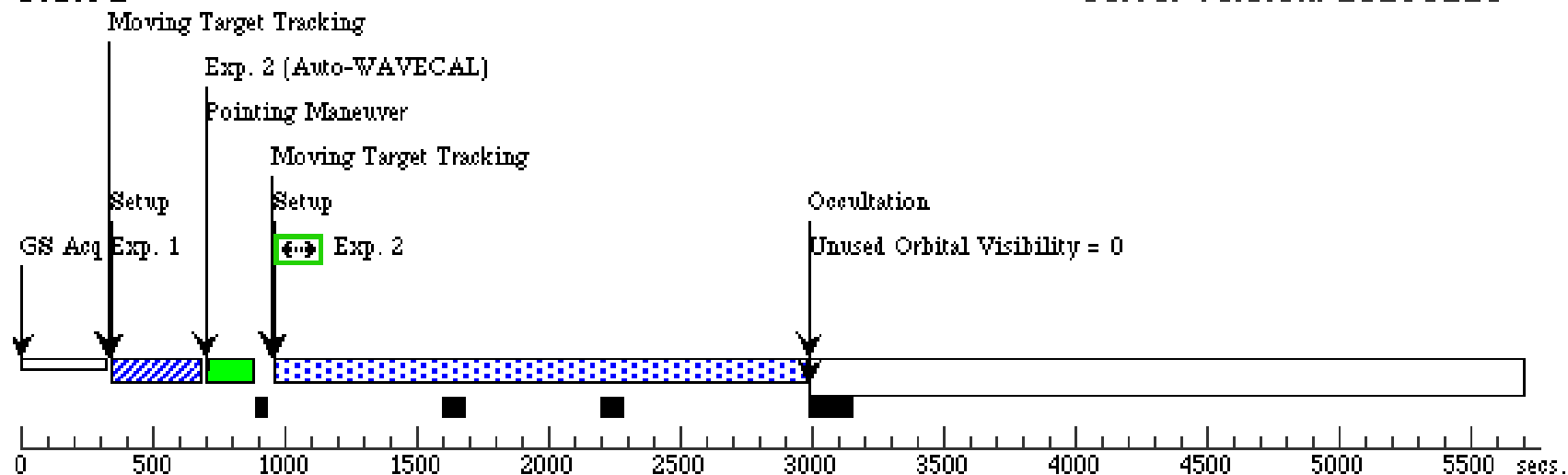


Proposal 13679 - TA205-2 (02) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, TA205-2 (02), completed Tue Apr 07 01:01:27 GMT 2015									
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; BETWEEN 01-DEC-2014:00:00:00 AND 24-DEC-2014:00:00:00 <i>Comments: Targeted true anomaly interval: 177 < TA < 233 deg</i>									
Diagnostics	(Exposure 2 (TA205-2 (02))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 3 (TA205-2 (02))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 4 (TA205-2 (02))) Warning (Form): Sensitive exposures should have an ETC run number provided.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(2)	EUROPA-TA205-2	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-TA205-2 JUPITER FROM EARTH GT 5", SEP OF EUROPA-TA205-2 CALLISTO FROM EARTH GT 5", SEP OF EUROPA-TA205-2 IO FROM EARTH GT 5", SEP OF EUROPA-TA205-2 GANYMEDE FROM EARTH GT 5", CML OF EUROPA FROM EARTH BETWEEN 194 232, NOT CML OF JUPITER FROM EUROPA BETWEEN 179 215, NOT CML OF JUPITER FROM EUROPA BETWEEN 0 35, NOT TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH	EARTH			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) EUROPA-TA205-2	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=19; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]	[1]
	2		(2) EUROPA-TA205-2	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			1800 Secs (1965 Secs) [==>1965 Secs]	[1]
	3		(2) EUROPA-TA205-2	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2740 Secs) [==>2740 Secs]	[2]
	4		(2) EUROPA-TA205-2	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2700 Secs) [==>2700 Secs]	[3]

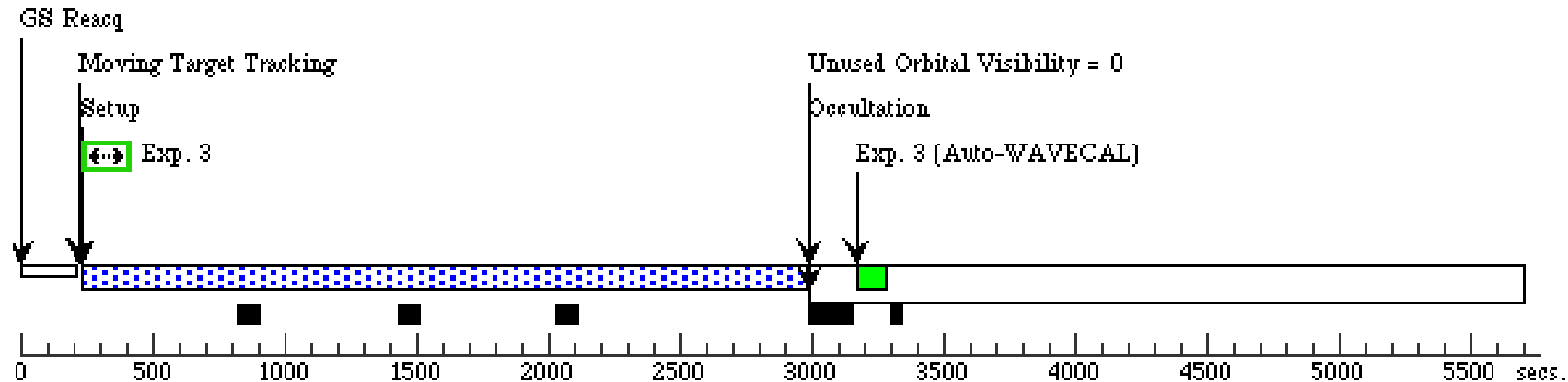
Orbit 1

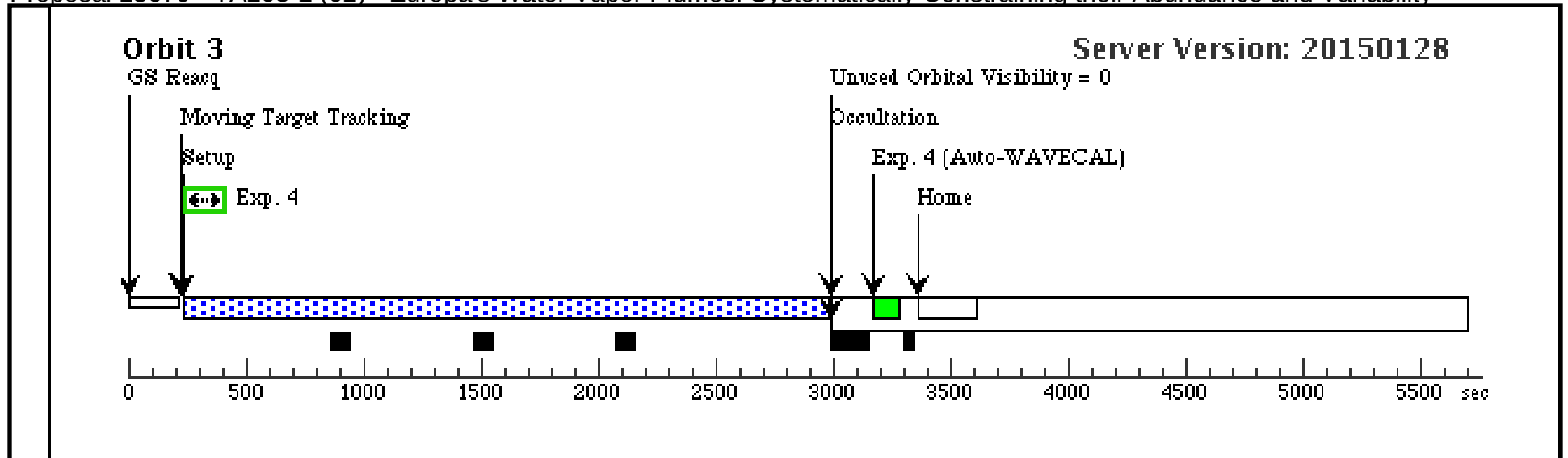
Server Version: 20150128



Orbit 2

Server Version: 20150128



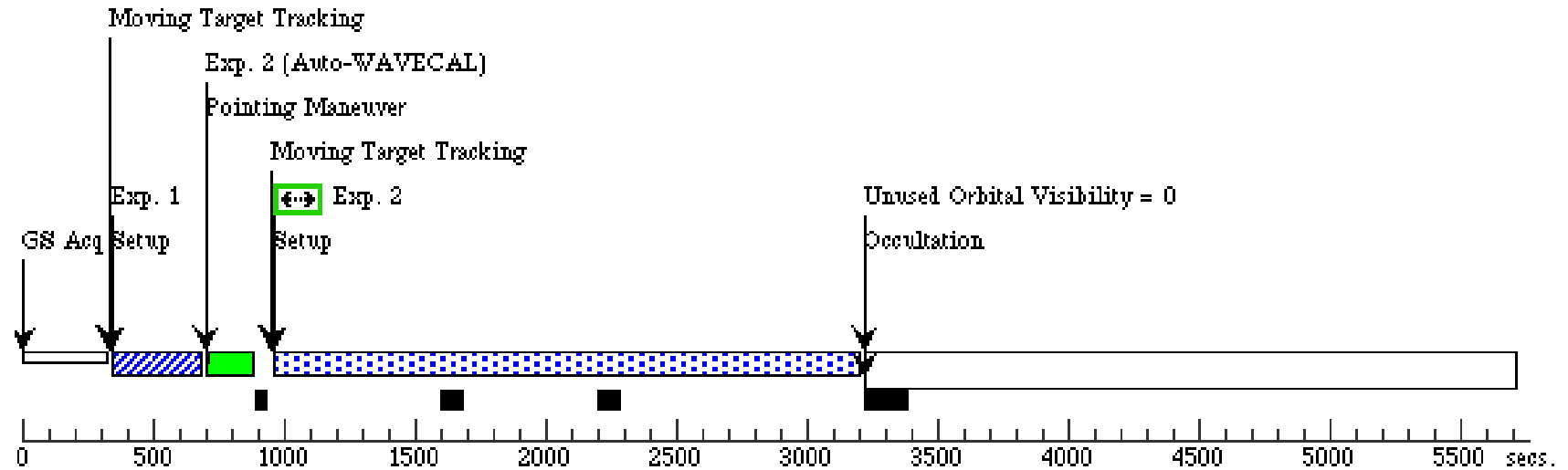


Proposal 13679 - TA205-3 (03) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, TA205-3 (03), completed Tue Apr 07 01:01:28 GMT 2015									
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 28-FEB-2015:00:00:00 AND 22-MAR-2015:00:00:00 <i>Comments: Targeted true anomaly interval: 179 < TA < 231 deg</i>									
Diagnostics	(Exposure 2 (TA205-3 (03))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 3 (TA205-3 (03))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 4 (TA205-3 (03))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 5 (TA205-3 (03))) Warning (Form): Sensitive exposures should have an ETC run number provided.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(3)	EUROPA-TA205-3	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-TA205-3 JUPITER FROM EARTH GT 25", SEP OF EUROPA-TA205-3 CALLISTO FROM EARTH GT 5", SEP OF EUROPA-TA205-3 IO FROM EARTH GT 5", SEP OF EUROPA-TA205-3 GANYMEDE FROM EARTH GT 5", CML OF EUROPA FROM EARTH BETWEEN 138 174, NOT TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, CML OF JUPITER FROM EUROPA BETWEEN 190 30	EARTH			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) EUROPA-TA205-3	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=19; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]	[1]
	2		(3) EUROPA-TA205-3	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			1800 Secs (2188 Secs) [==>2188.0 Secs]	[1]
	3		(3) EUROPA-TA205-3	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2963 Secs) [==>2963.0 Secs]	[2]
	4		(3) EUROPA-TA205-3	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2923 Secs) [==>2923.0 Secs]	[3]
	5		(3) EUROPA-TA205-3	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2923 Secs) [==>2923.0 Secs]	[4]

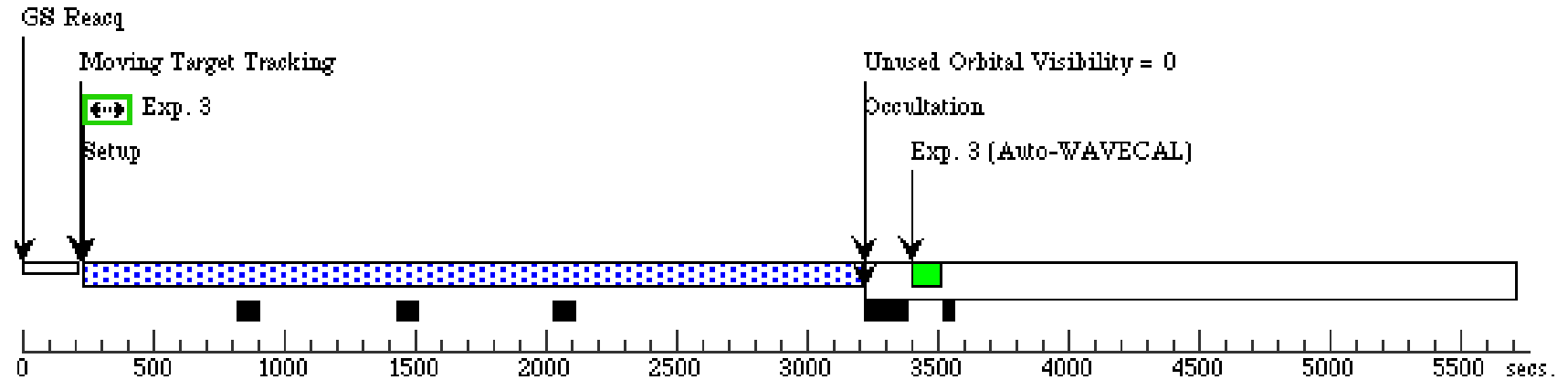
Orbit 1

Server Version: 20150128



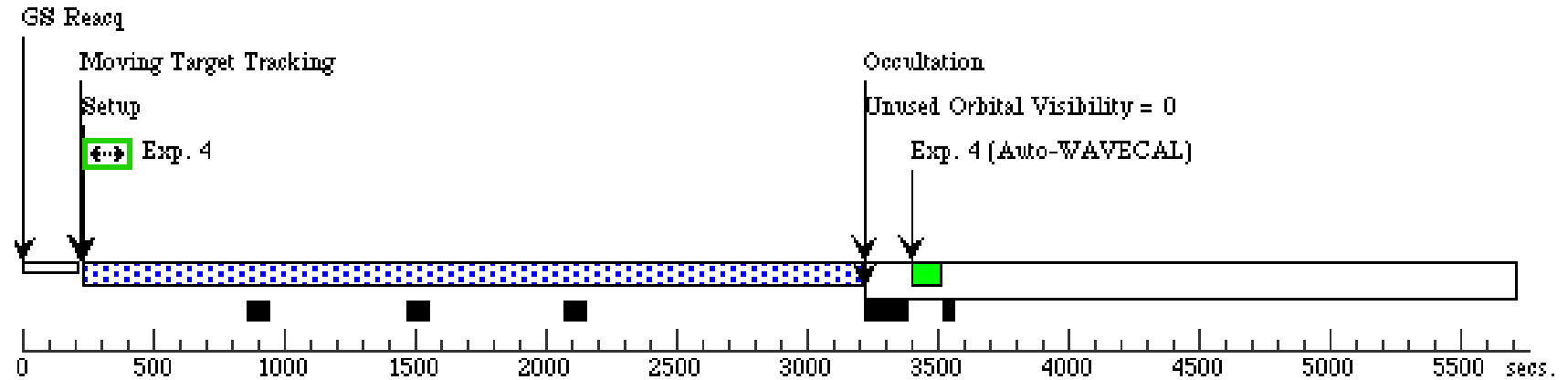
Orbit 2

Server Version: 20150128



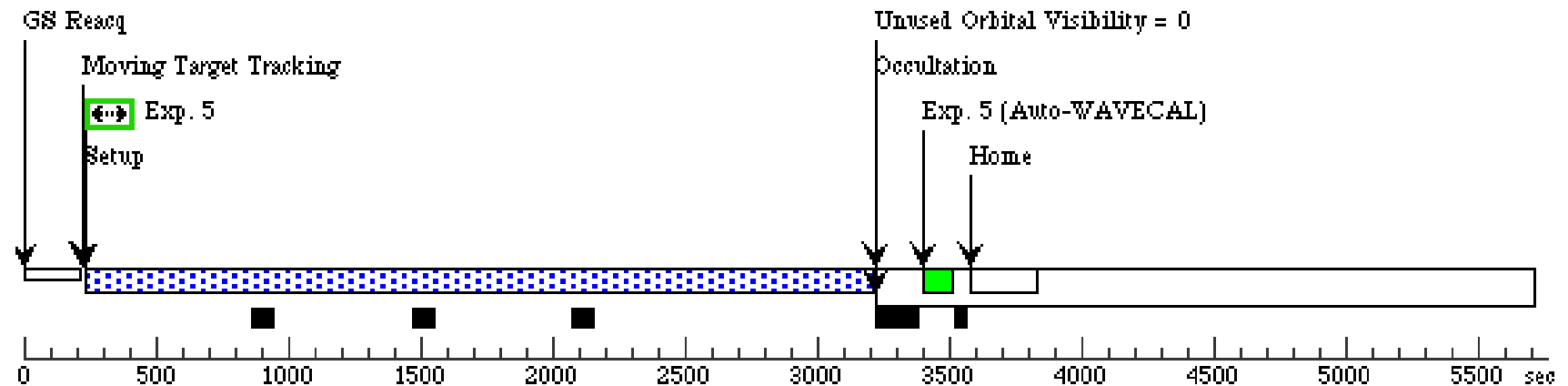
Orbit 3

Server Version: 20150128



Orbit 4

Server Version: 20150128



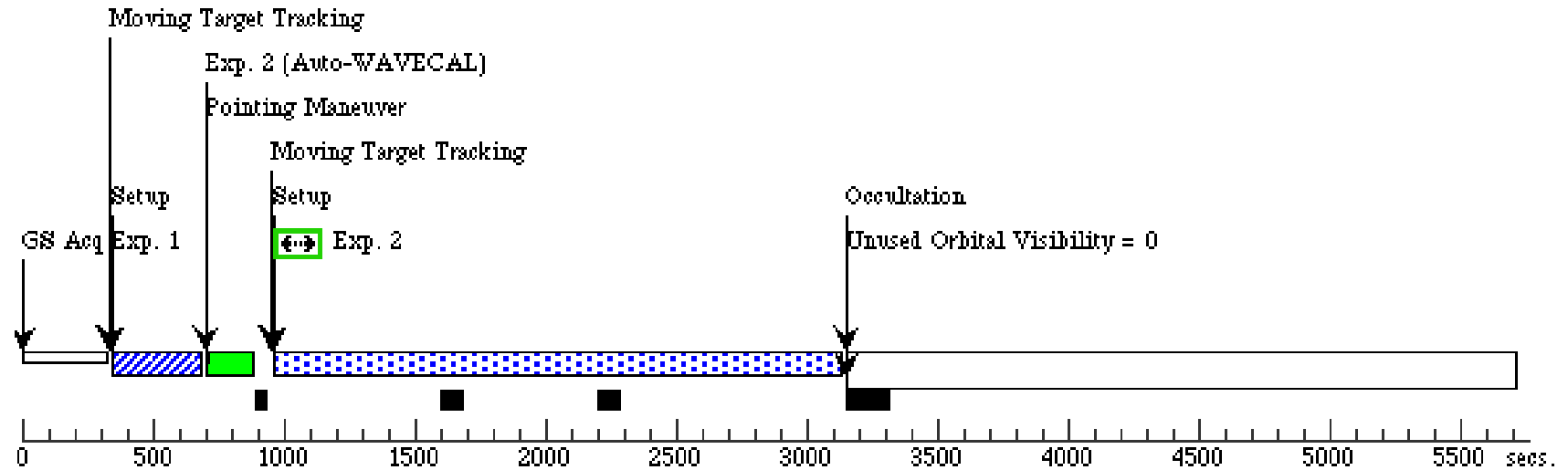
Proposal 13679 - TA205-4 (04) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Tue Apr 07 01:01:28 GMT 2015

Visit	Proposal 13679, TA205-4 (04), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 50%; BETWEEN 20-MAR-2015:00:00:00 AND 09-APR-2015:00:00:00 <i>Comments: Targeted true anomaly interval: 179 < TA < 231 deg</i>									
Diagnostics	(Exposure 2 (TA205-4 (04))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 3 (TA205-4 (04))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 4 (TA205-4 (04))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 5 (TA205-4 (04))) Warning (Form): Sensitive exposures should have an ETC run number provided.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(4)	EUROPA-TA205-4	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-TA205-4 JUPITER FROM EARTH GT 25", SEP OF EUROPA-TA205-4 CALLISTO FROM EARTH GT 5", SEP OF EUROPA-TA205-4 IO FROM EARTH GT 5", SEP OF EUROPA-TA205-4 GANYMEDE FROM EARTH GT 5", CML OF EUROPA FROM EARTH BETWEEN 124 160, NOT TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, CML OF JUPITER FROM EUROPA BETWEEN 350 230	EARTH			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) EUROPA-TA205-4	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=19; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]	[1]
	2		(4) EUROPA-TA205-4	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			1800 Secs (2119 Secs) [==>2119.0 Secs]	[1]
	3		(4) EUROPA-TA205-4	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2894 Secs) [==>2894.0 Secs]	[2]
	4		(4) EUROPA-TA205-4	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2854 Secs) [==>2854.0 Secs]	[3]
	5		(4) EUROPA-TA205-4	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2854 Secs) [==>2854.0 Secs]	[4]

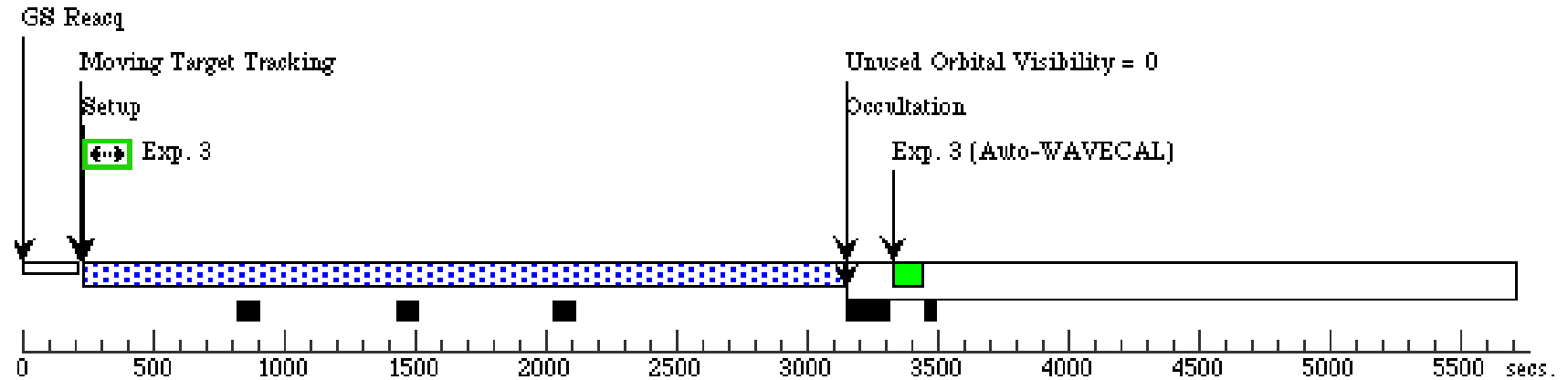
Orbit 1

Server Version: 20150128



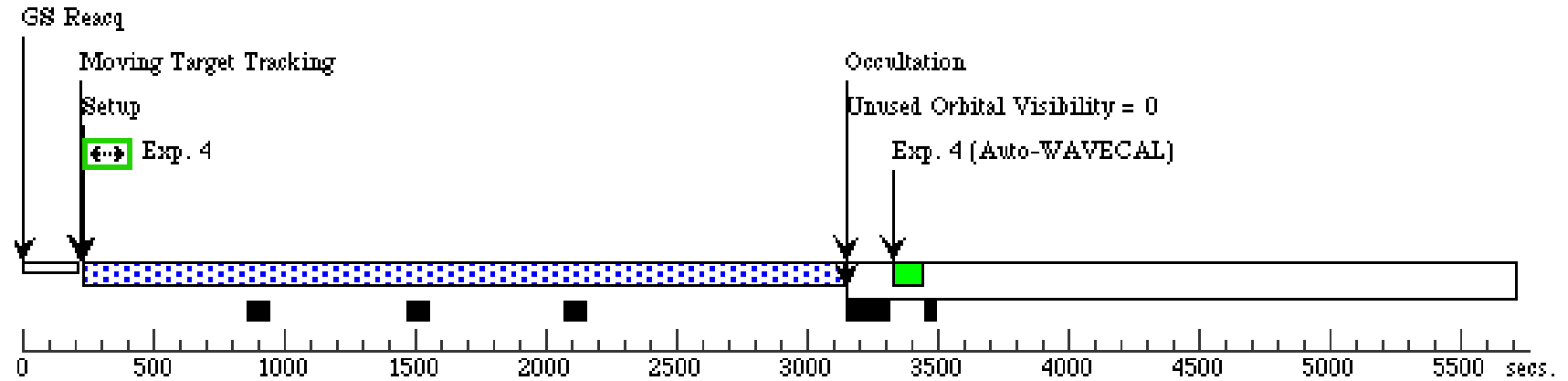
Orbit 2

Server Version: 20150128



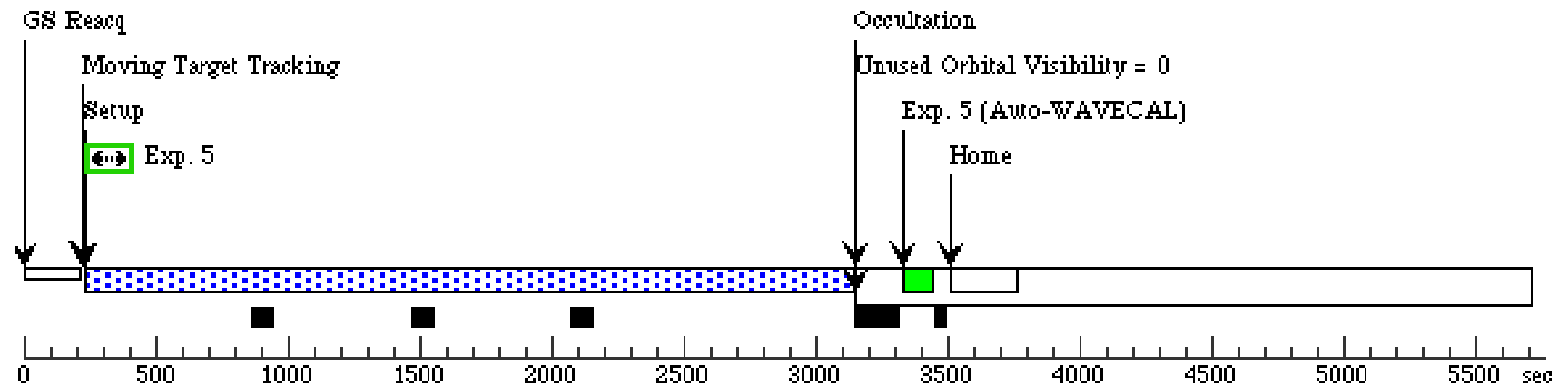
Orbit 3

Server Version: 20150128



Orbit 4

Server Version: 20150128

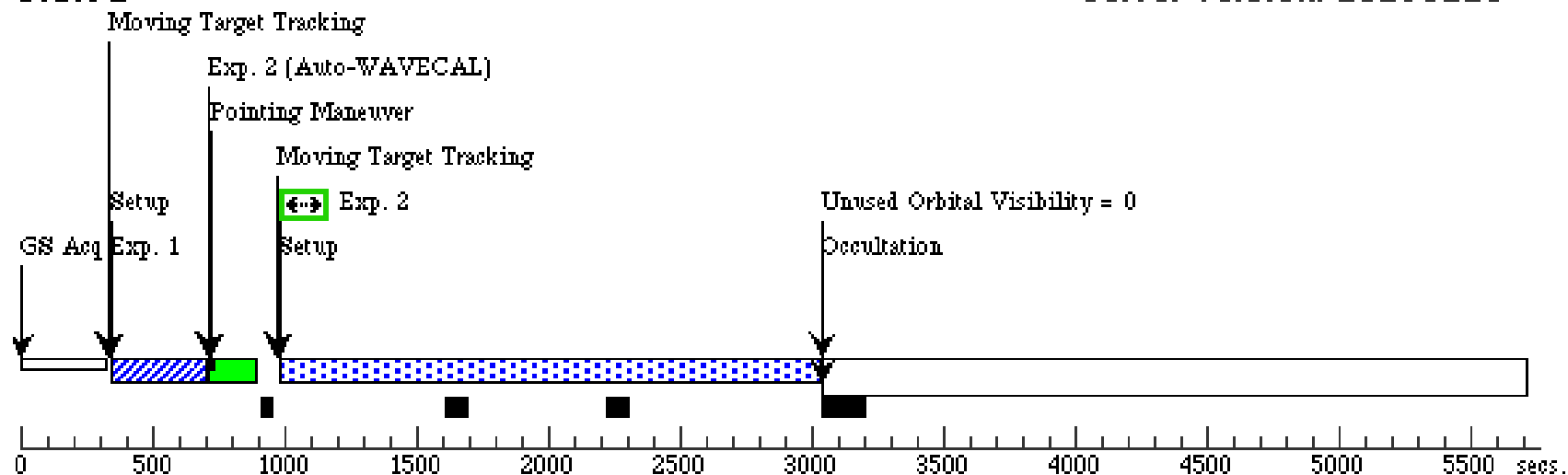


Proposal 13679 - OLG90-1 (06) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, OLG90-1 (06), completed Tue Apr 07 01:01:28 GMT 2015									
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; BETWEEN 08-JAN-2015:00:00:00 AND 07-FEB-2015:00:00:00 <i>Comments: Targeted true anomaly interval: 79 < TA < 141 deg</i>									
Diagnostics	(Exposure 2 (OLG90-1 (06))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 3 (OLG90-1 (06))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 4 (OLG90-1 (06))) Warning (Form): Sensitive exposures should have an ETC run number provided.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(6)	EUROPA-OLG90-1+2	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-OLG90-1+2 JUPITER FROM EARTH GT 25", SEP OF EUROPA-OLG90-1+2 CALLISTO FROM EARTH GT 5", SEP OF EUROPA-OLG90-1+2 IO FROM EARTH GT 5", SEP OF EUROPA-OLG90-1+2 GANYMEDE FROM EARTH GT 5", NOT CML OF JUPITER FROM EUROPA BETWEEN 179 215, NOT CML OF JUPITER FROM EUROPA BETWEEN 0 35, CML OF EUROPA FROM EARTH BETWEEN 70 110	EARTH			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(6) EUROPA-OLG90-1+2	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=21; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]	[1]
	2		(6) EUROPA-OLG90-1+2	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=600			1800 Secs (1995 Secs) [==>1995.0 Secs]	[1]
	3		(6) EUROPA-OLG90-1+2	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=600			2800 Secs (2786 Secs) [==>2786.0 Secs]	[2]
	4		(6) EUROPA-OLG90-1+2	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=600			2800 Secs (2746 Secs) [==>2746.0 Secs]	[3]

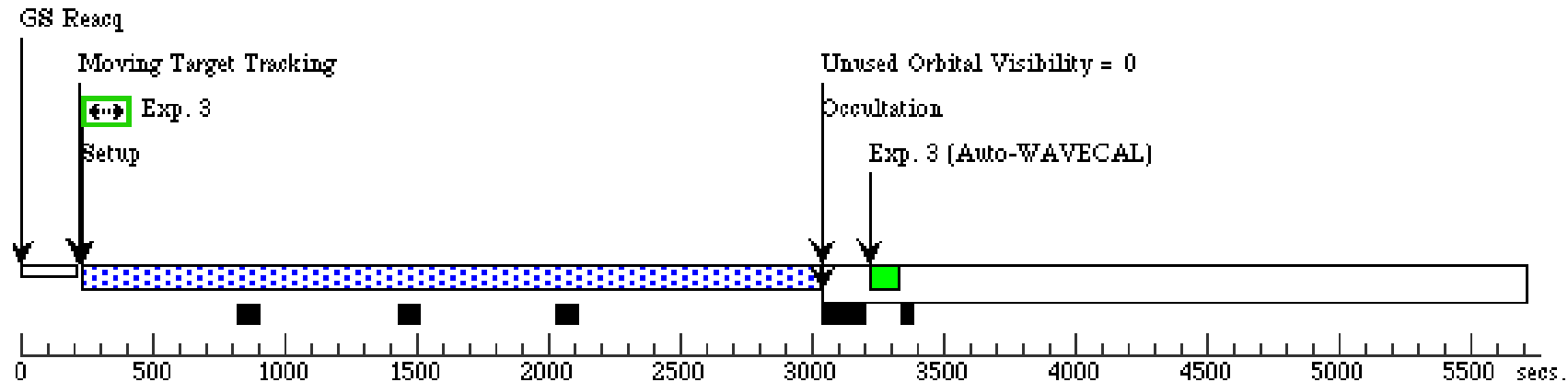
Orbit 1

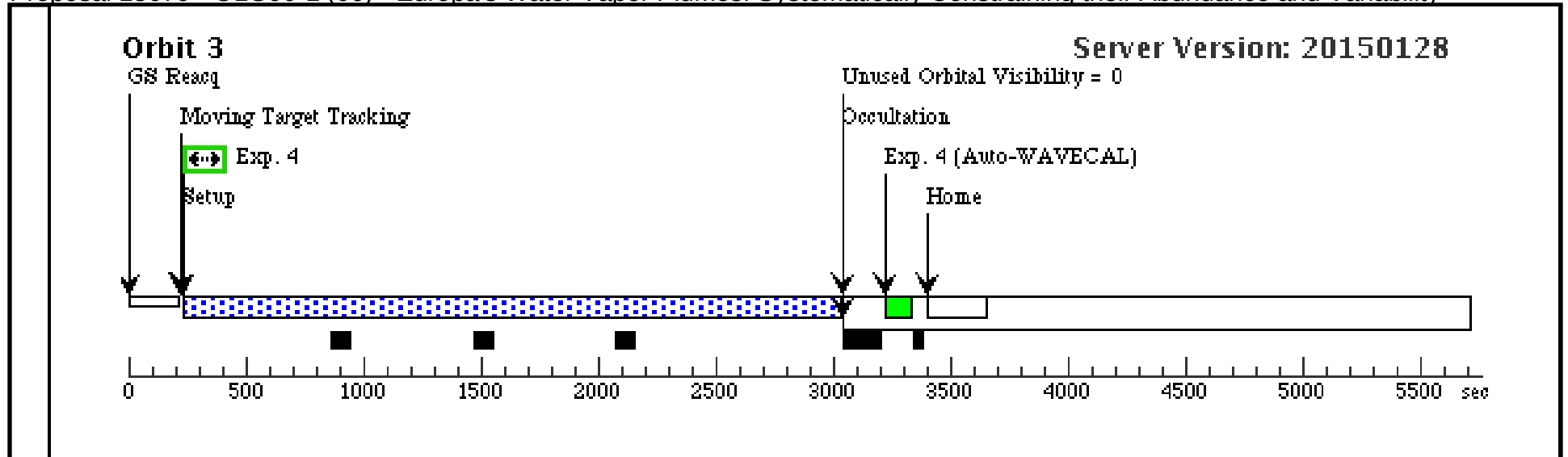
Server Version: 20150128



Orbit 2

Server Version: 20150128



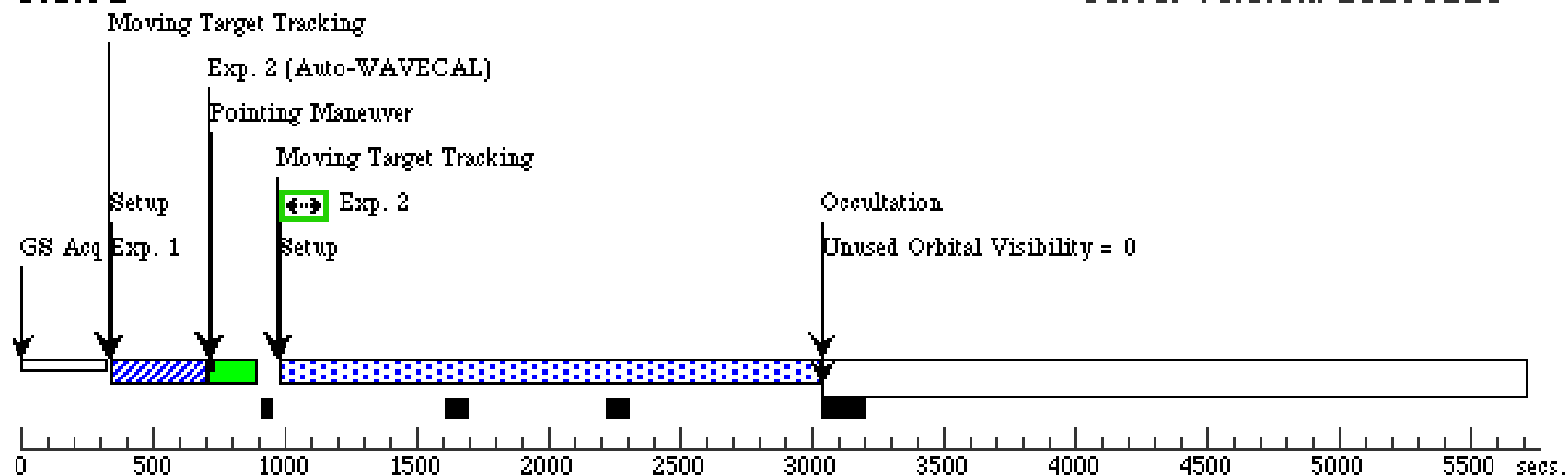


Proposal 13679 - OLG90-2 (07) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, OLG90-2 (07), completed										Tue Apr 07 01:01:28 GMT 2015	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: SCHED 80%; BETWEEN 09-FEB-2015:00:00:00 AND 11-MAR-2015:00:00:00											
Comments: Targeted true anomaly interval: 98 < TA < 160 deg												
Diagnostics	(Exposure 2 (OLG90-2 (07))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 3 (OLG90-2 (07))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 4 (OLG90-2 (07))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 5 (OLG90-2 (07))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 6 (OLG90-2 (07))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(18)	EUROPA-OLG90-1+2-COPY	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-OLG90-1+2-COPY EARTH JUPITER FROM EARTH GT 25", SEP OF EUROPA-OLG90-1+2-COPY CALLISTO FROM EARTH GT 5", SEP OF EUROPA-OLG90-1+2-COPY IO FROM EARTH GT 5", SEP OF EUROPA-OLG90-1+2-COPY GANYMEDE FROM EARTH GT 5", CML OF EUROPA FROM EARTH BETWEEN 70 110, CML OF JUPITER FROM EUROPA BETWEEN 350 230						
Comments: New for OLG90-2												
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(18) EUROPA-OLG 90-1+2-COPY	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=21; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]		[1]	
	2		(18) EUROPA-OLG 90-1+2-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=600			1800 Secs (1995 Secs) [==>1995.0 Secs]		[1]	
	3		(18) EUROPA-OLG 90-1+2-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=600			2800 Secs (2786 Secs) [==>2786.0 Secs]		[2]	
	4		(18) EUROPA-OLG 90-1+2-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=600			2800 Secs (2746 Secs) [==>2746.0 Secs]		[3]	
	5		(18) EUROPA-OLG 90-1+2-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=600			2800 Secs (2746 Secs) [==>2746.0 Secs]		[4]	
	6		(18) EUROPA-OLG 90-1+2-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=600			2800 Secs (2746 Secs) [==>2746.0 Secs]		[5]	

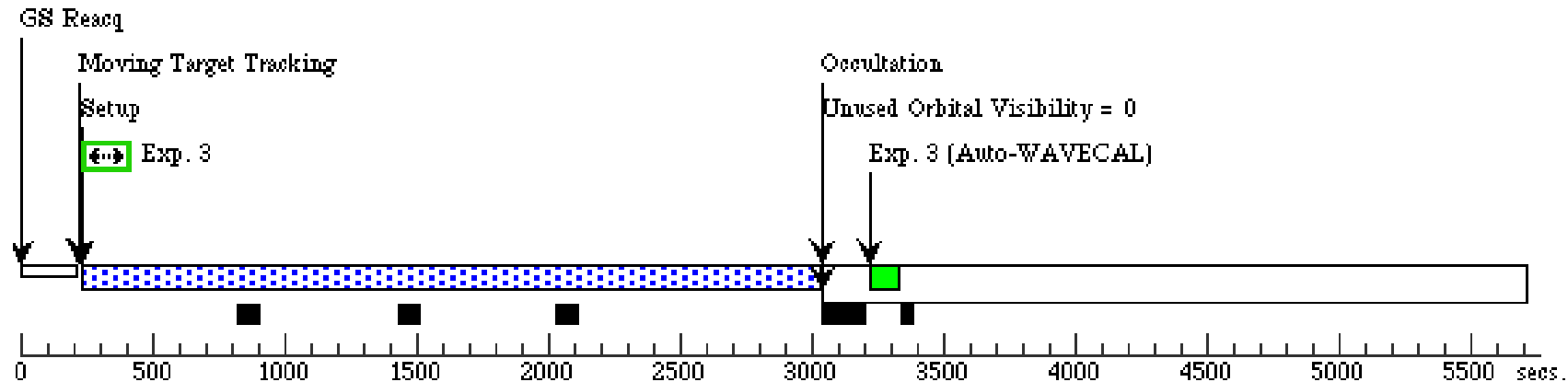
Orbit 1

Server Version: 20150128



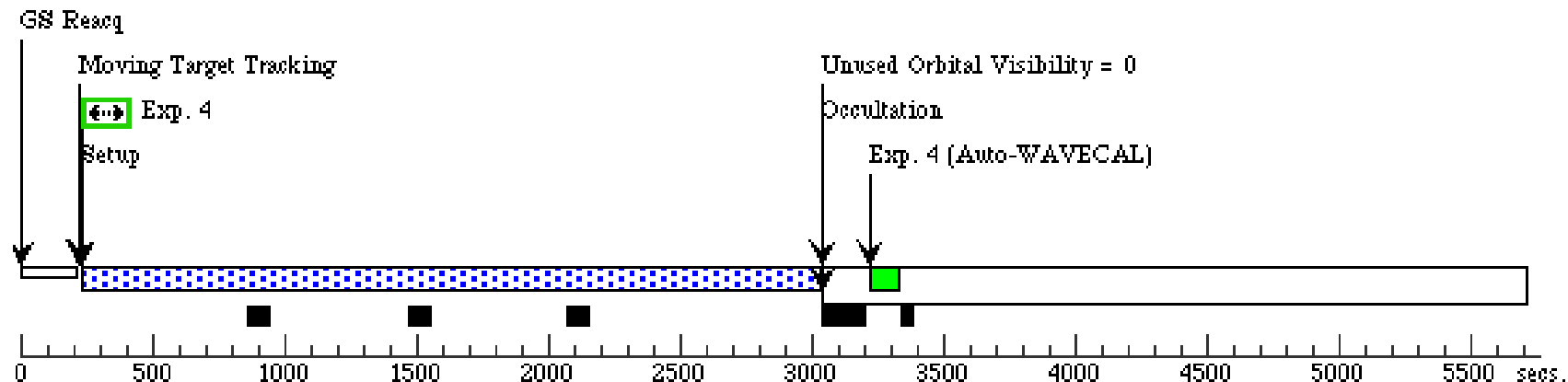
Orbit 2

Server Version: 20150128



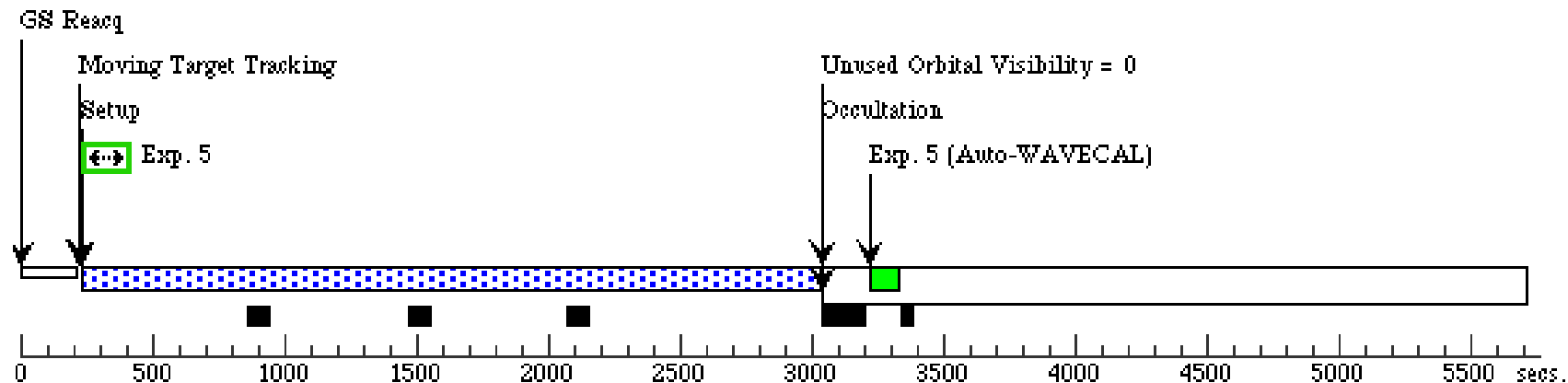
Orbit 3

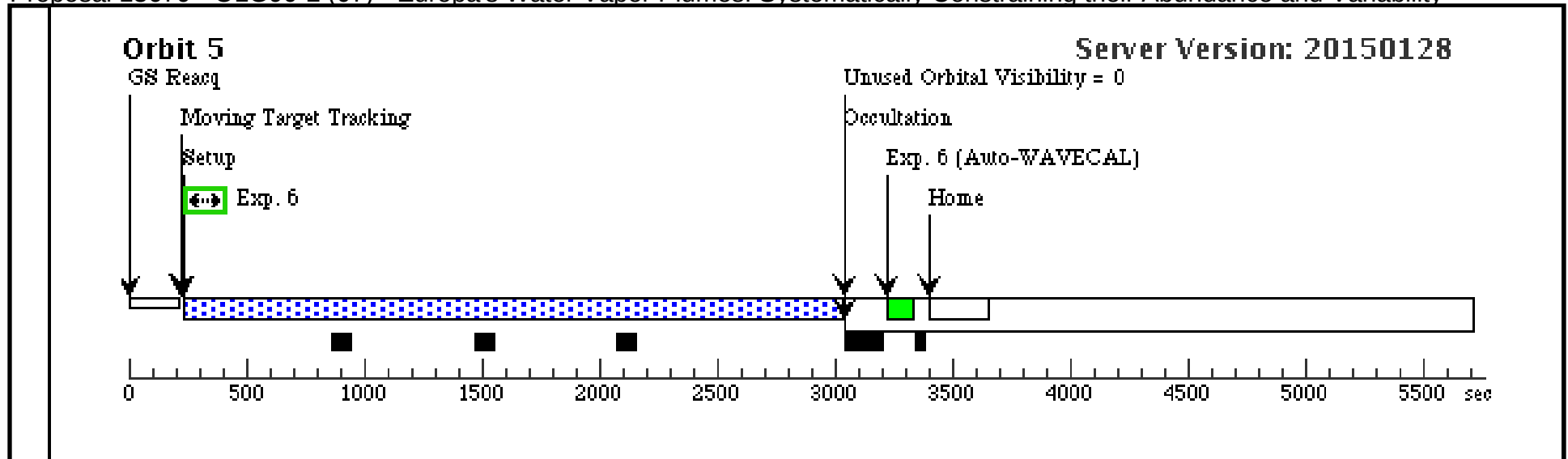
Server Version: 20150128



Orbit 4

Server Version: 20150128



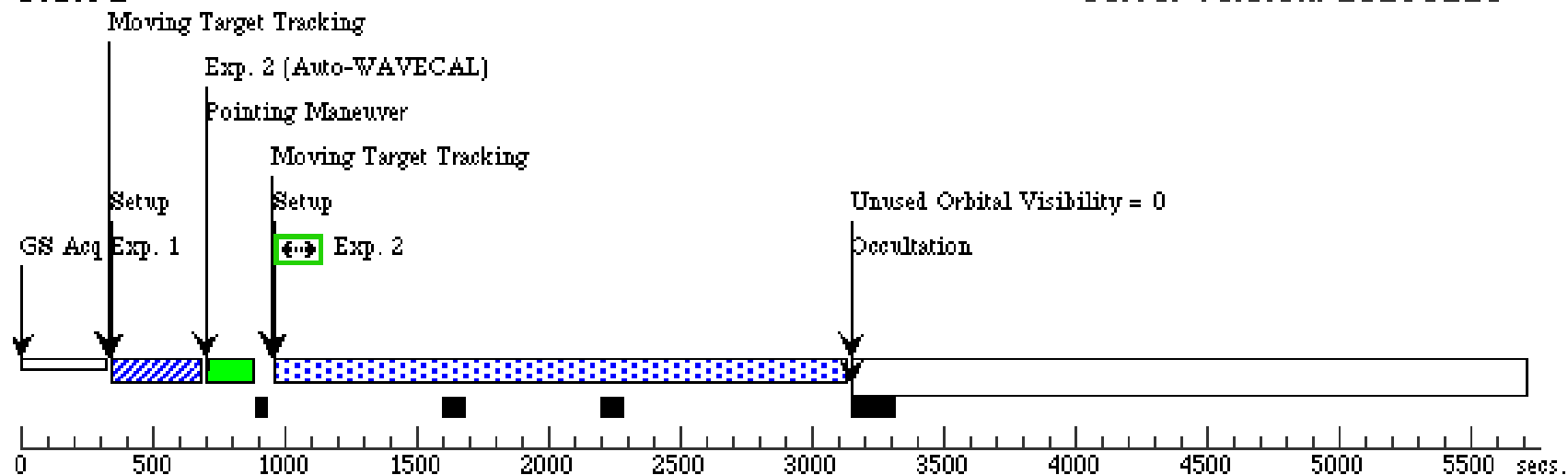


Proposal 13679 - ORBCOV-1 (09) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, ORBCOV-1 (09), completed Tue Apr 07 01:01:28 GMT 2015									
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 50%; BETWEEN 29-NOV-2014:00:00:00 AND 23-DEC-2014:00:00:00 <i>Comments: Targeted true anomaly interval: 15 < TA < 67 deg</i>									
Diagnostics	(Exposure 2 (ORBCOV-1 (09))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 3 (ORBCOV-1 (09))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 4 (ORBCOV-1 (09))) Warning (Form): Sensitive exposures should have an ETC run number provided.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(8)	EUROPA-ORBCOV-1	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-ORBCOV-1 JUPITER FROM EARTH GT 25", SEP OF EUROPA-ORBCOV-1 CALLISTO FROM EARTH GT 5", SEP OF EUROPA-ORBCOV-1 IO FROM EARTH GT 5", SEP OF EUROPA-ORBCOV-1 GANYMEDE FROM EARTH GT 5", NOT CML OF JUPITER FROM EUROPA BETWEEN 179 215, NOT CML OF JUPITER FROM EUROPA BETWEEN 0 35, CML OF EUROPA FROM EARTH BETWEEN 33 67, NOT ECL P OF EUROPA BY JUPITER	EARTH			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(8) EUROPA-ORBCOV-1	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=19; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]	[1]
	2		(8) EUROPA-ORBCOV-1	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			1800 Secs (2119 Secs) [==>2119.0 Secs]	[1]
	3		(8) EUROPA-ORBCOV-1	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2894 Secs) [==>2894.0 Secs]	[2]
	4		(8) EUROPA-ORBCOV-1	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2854 Secs) [==>2854.0 Secs]	[3]

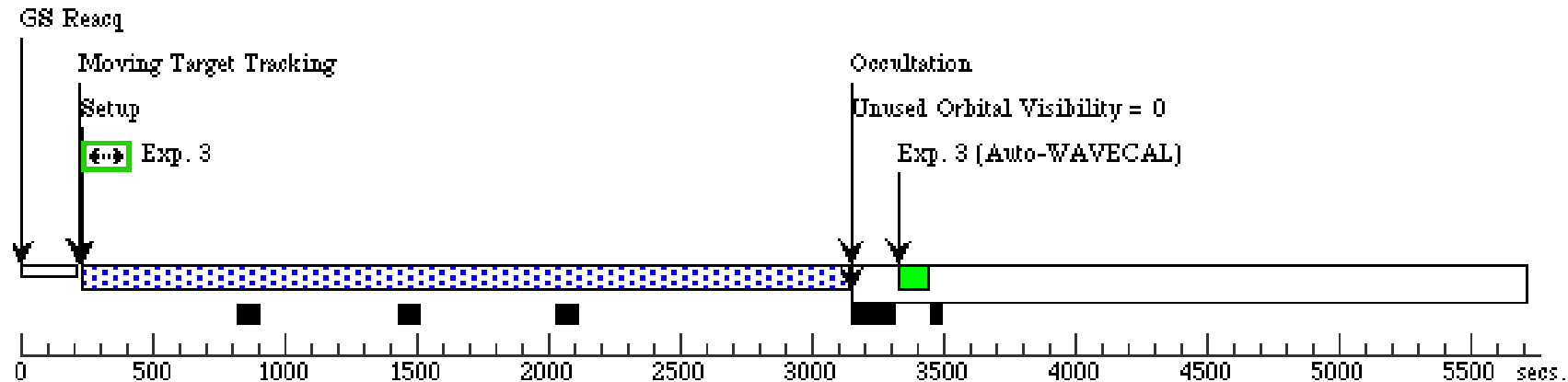
Orbit 1

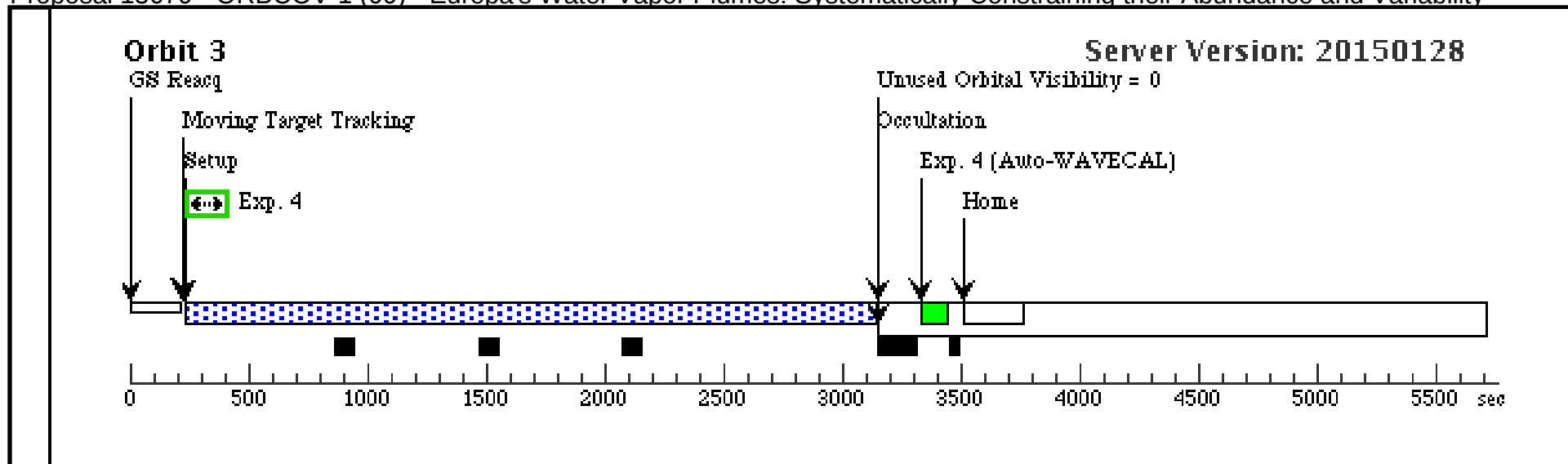
Server Version: 20150128



Orbit 2

Server Version: 20150128



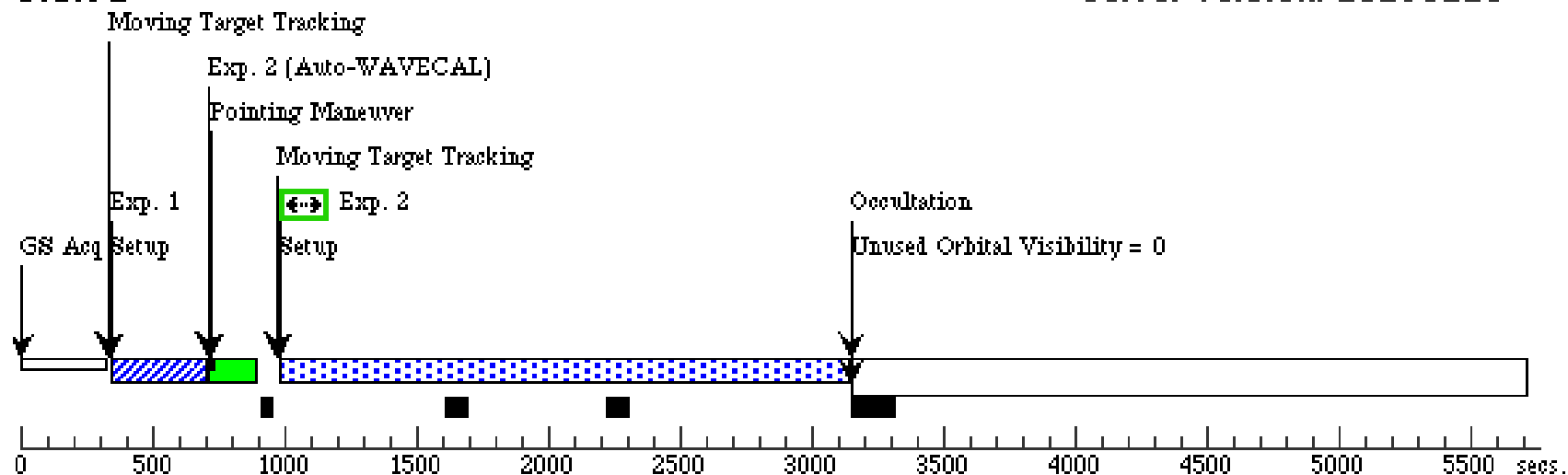


Proposal 13679 - ORBCOV-2 (10) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, ORBCOV-2 (10), completed Tue Apr 07 01:01:29 GMT 2015									
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 50%; BETWEEN 26-DEC-2014:00:00:00 AND 19-JAN-2015:00:00:00 <i>Comments: Targeted true anomaly interval: 252 < TA < 304 deg</i>									
Diagnostics	(Exposure 2 (ORBCOV-2 (10))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 3 (ORBCOV-2 (10))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 4 (ORBCOV-2 (10))) Warning (Form): Sensitive exposures should have an ETC run number provided.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(9)	EUROPA-ORBCOV-2+3	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-ORBCOV-2+3 JUPITER FROM EARTH GT 25", SEP OF EUROPA-ORBCOV-2+3 CALLISTO FROM EARTH GT 5", SEP OF EUROPA-ORBCOV-2+3 IO FROM EARTH GT 5", SEP OF EUROPA-ORBCOV-2+3 GANYMEDE FROM EARTH GT 5", NOT CML OF JUPITER FROM EUROPA BETWEEN 179 215, NOT CML OF JUPITER FROM EUROPA BETWEEN 0 35, CML OF EUROPA FROM EARTH BETWEEN 253 287	EARTH			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) EUROPA-ORBCOV-2+3	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=21; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]	[1]
	2		(9) EUROPA-ORBCOV-2+3	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			1800 Secs (2103 Secs) [==>2103.0 Secs]	[1]
	3		(9) EUROPA-ORBCOV-2+3	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2894 Secs) [==>2894.0 Secs]	[2]
	4		(9) EUROPA-ORBCOV-2+3	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2854 Secs) [==>2854.0 Secs]	[3]

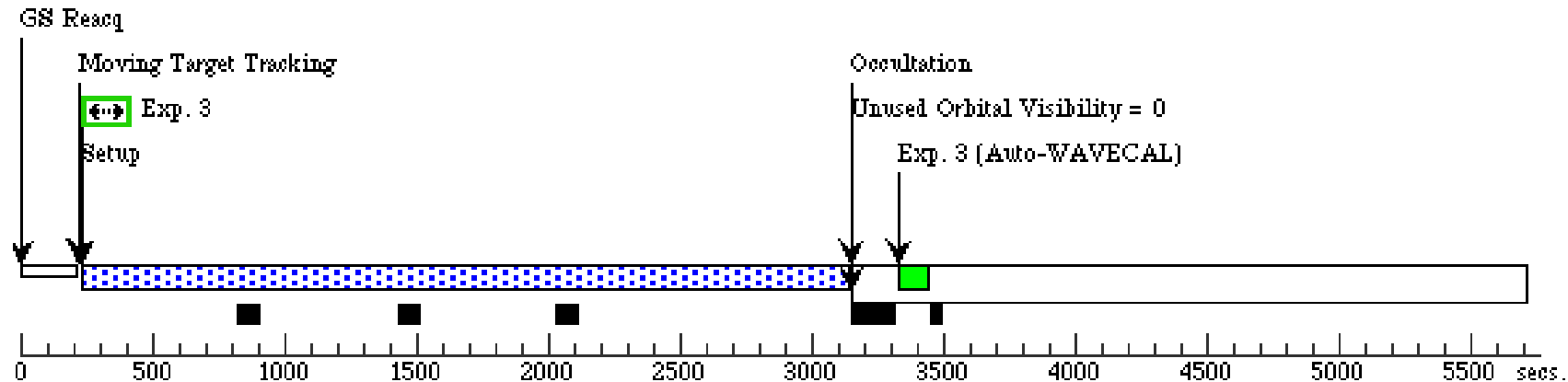
Orbit 1

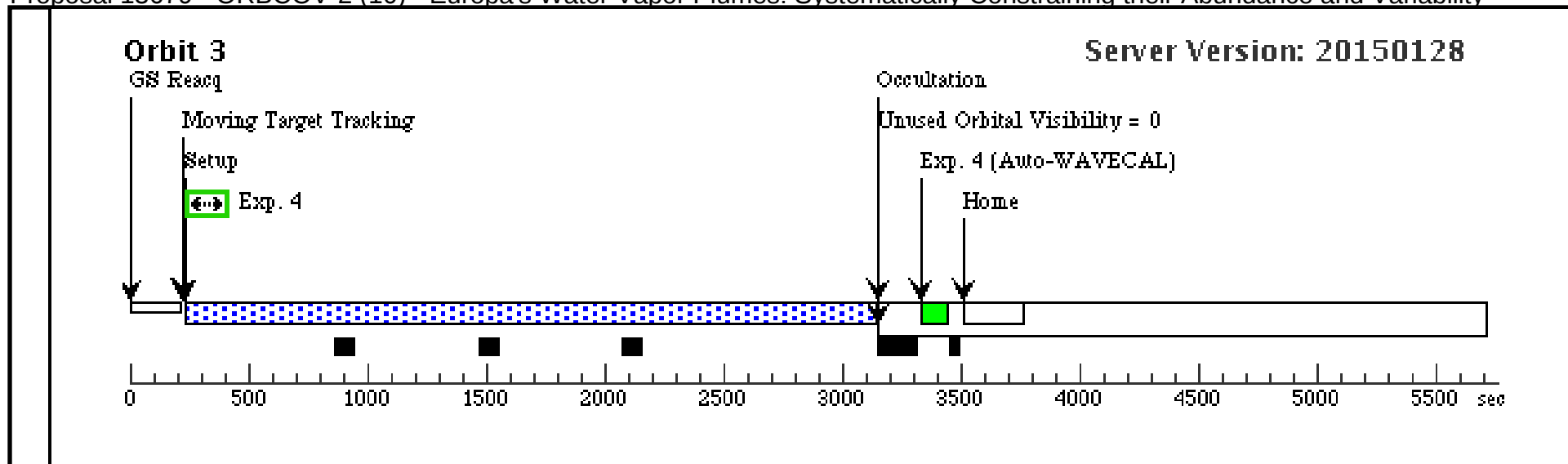
Server Version: 20150128



Orbit 2

Server Version: 20150128



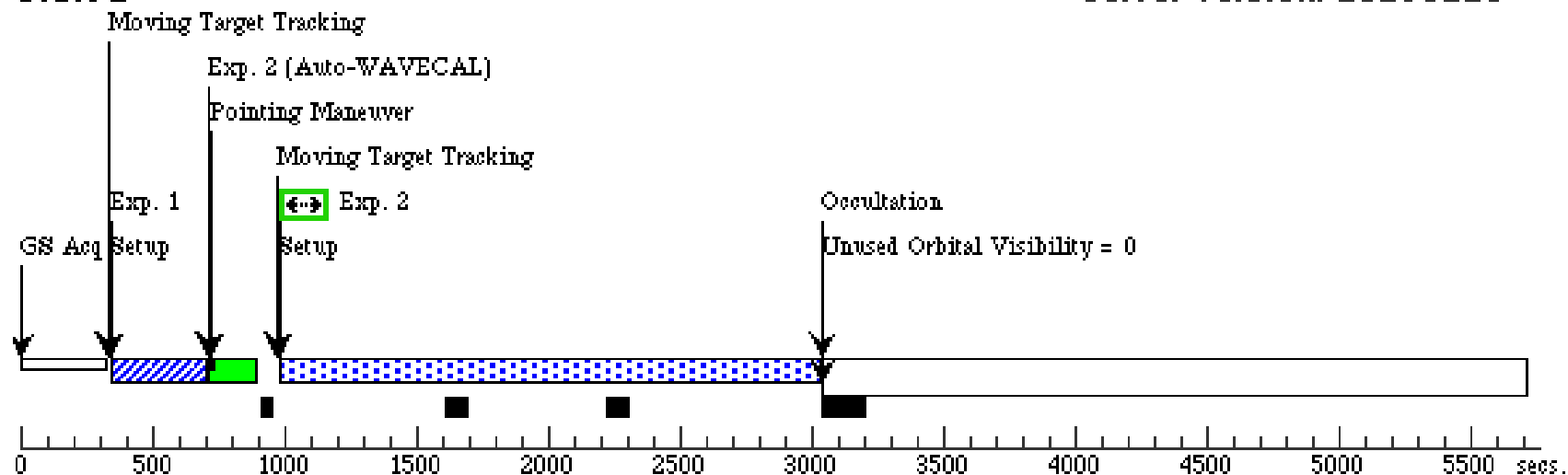


Proposal 13679 - ORBCOV-3 (11) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, ORBCOV-3 (11), completed										Tue Apr 07 01:01:29 GMT 2015	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: SCHED 80%; BETWEEN 07-FEB-2015:00:00:00 AND 02-MAR-2015:00:00:00											
Comments: Targeted true anomaly interval: 279 < TA < 331 deg												
Diagnostics	(Exposure 2 (ORBCOV-3 (11))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 3 (ORBCOV-3 (11))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 4 (ORBCOV-3 (11))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 5 (ORBCOV-3 (11))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(19)	EUROPA-ORBCOV-2+3-COPY	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-ORBCOV-2+3-COPY JUPITER FROM EARTH GT 25", SEP OF EUROPA-ORBCOV-2+3-COPY CALLISTO FROM EARTH GT 5", SEP OF EUROPA-ORBCOV-2+3-COPY IO FROM EARTH GT 5", SEP OF EUROPA-ORBCOV-2+3-COPY GANYMEDE FROM EARTH GT 5", CML OF EUROPA FROM EARTH BETWEEN 253 287, CML OF JUPITER FROM EUROPA BETWEEN 10 210	EARTH					
	Comments: New for ORBCOV 3 visit											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(19) EUROPA-ORB COV-2+3-COPY	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=21; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]		 [1]	
	2		(19) EUROPA-ORB COV-2+3-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			1800 Secs (1995 Secs) [==>1995.0 Secs]		 [1]	
	3		(19) EUROPA-ORB COV-2+3-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2786 Secs) [==>2786.0 Secs]		 [2]	
	4		(19) EUROPA-ORB COV-2+3-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2746 Secs) [==>2746.0 Secs]		 [3]	
	5		(19) EUROPA-ORB COV-2+3-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2746 Secs) [==>2746.0 Secs]		 [4]	

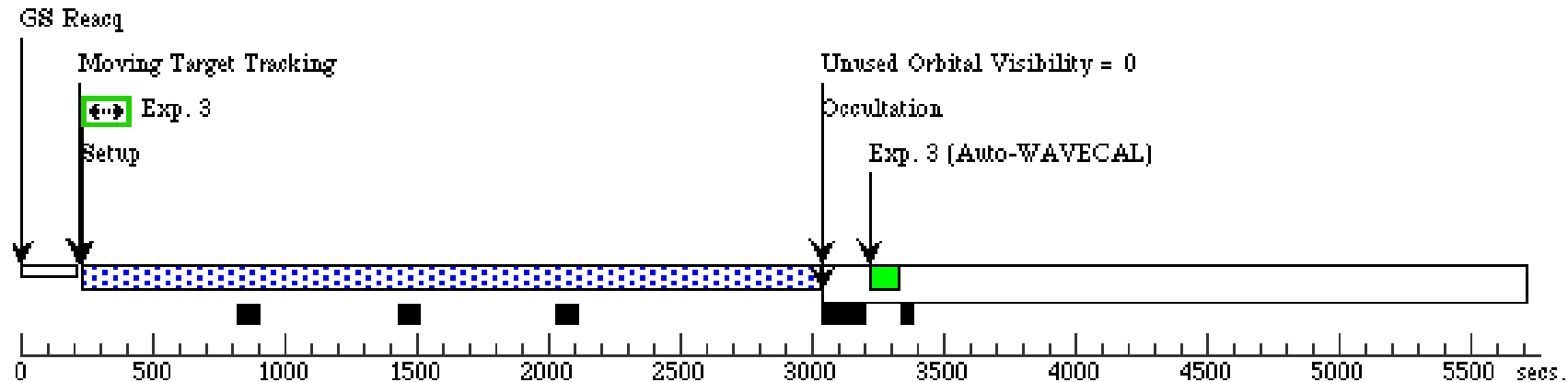
Orbit 1

Server Version: 20150128



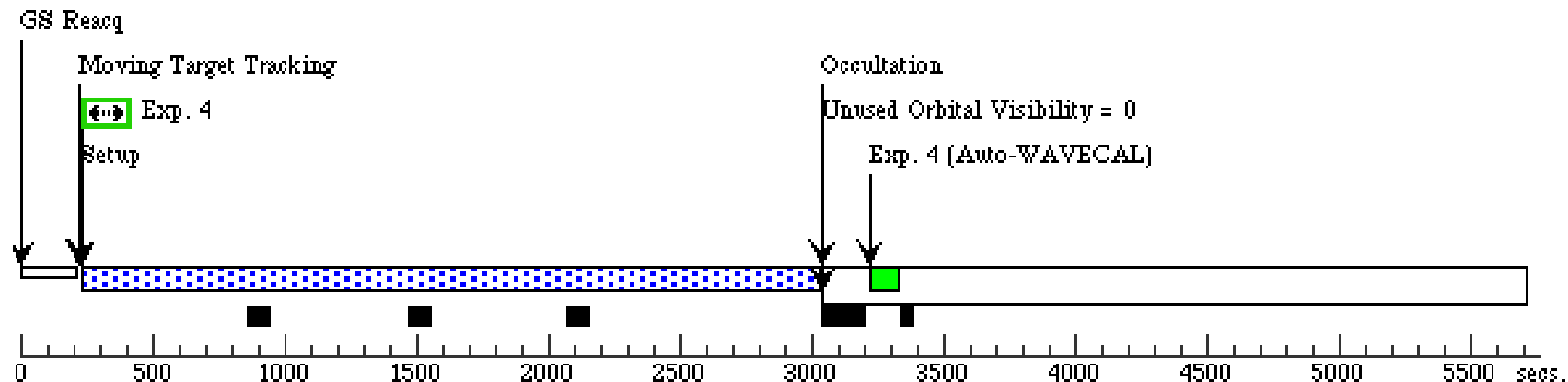
Orbit 2

Server Version: 20150128



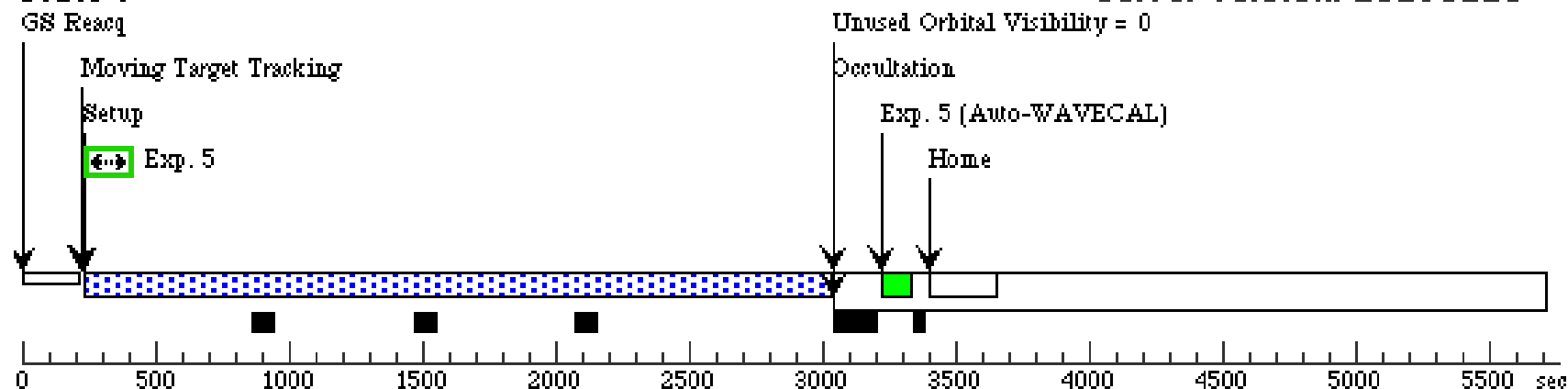
Orbit 3

Server Version: 20150128



Orbit 4

Server Version: 20150128

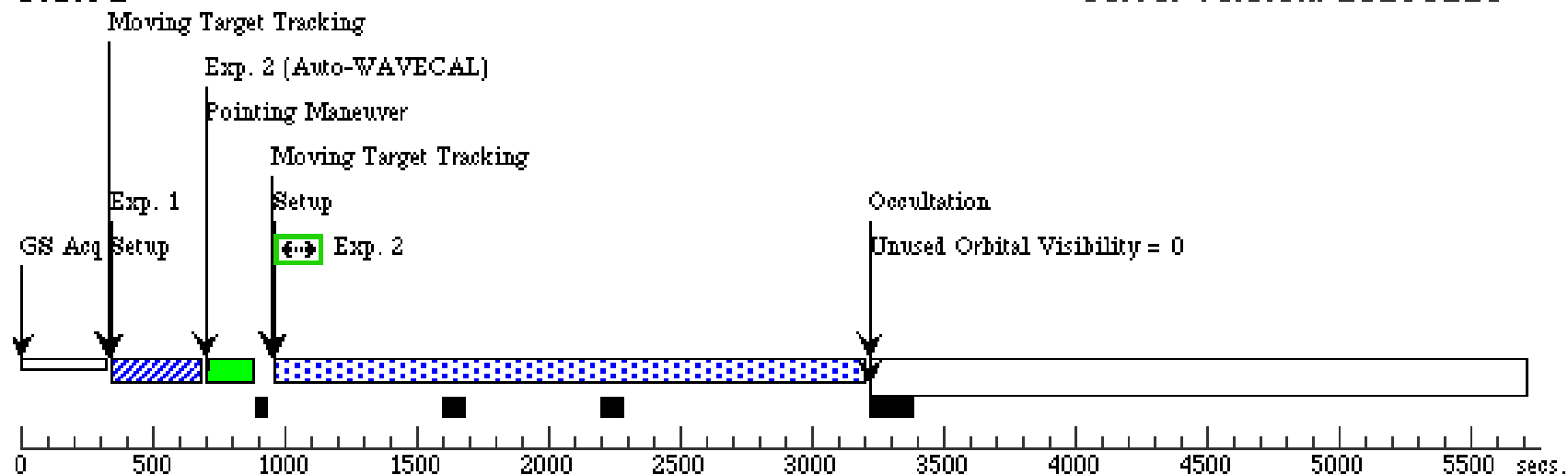


Proposal 13679 - ORBCOV-4 (12) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, ORBCOV-4 (12), completed Tue Apr 07 01:01:29 GMT 2015									
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: BETWEEN 08-MAR-2015:00:00:00 AND 31-MAR-2015:00:00:00 <i>Comments: Targeted true anomaly interval: 345 < TA < 37 deg</i>									
Diagnostics	(Exposure 2 (ORBCOV-4 (12))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 3 (ORBCOV-4 (12))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 4 (ORBCOV-4 (12))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 5 (ORBCOV-4 (12))) Warning (Form): Sensitive exposures should have an ETC run number provided. (Exposure 6 (ORBCOV-4 (12))) Warning (Form): Sensitive exposures should have an ETC run number provided.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(10)	EUROPA-ORBCOV-4	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-ORBCOV-4 JUPITER FROM EARTH GT 25", SEP OF EUROPA-ORBCOV-4 CALLISTO FROM EARTH GT 5", SEP OF EUROPA-ORBCOV-4 IO FROM EARTH GT 5", SEP OF EUROPA-ORBCOV-4 GANYMEDE FROM EARTH GT 5", CML OF EUROPA FROM EARTH BETWEEN 295 332, CML OF JUPITER FROM EUROPA BETWEEN 170 50	EARTH			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(10) EUROPA-ORB COV-4	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=19; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]	[1]
	2		(10) EUROPA-ORB COV-4	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			1800 Secs (2188 Secs) [==>2188.0 Secs]	[1]
	3		(10) EUROPA-ORB COV-4	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2963 Secs) [==>2963.0 Secs]	[2]
	4		(10) EUROPA-ORB COV-4	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2923 Secs) [==>2923.0 Secs]	[3]
	5		(10) EUROPA-ORB COV-4	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2923 Secs) [==>2923.0 Secs]	[4]
	6		(10) EUROPA-ORB COV-4	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2923 Secs) [==>2923.0 Secs]	[5]

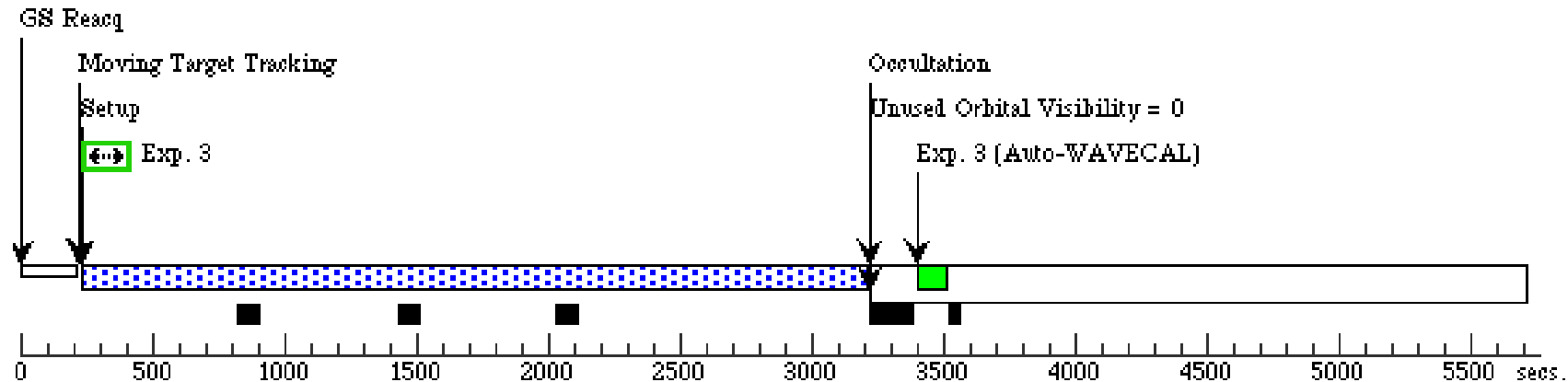
Orbit 1

Server Version: 20150128



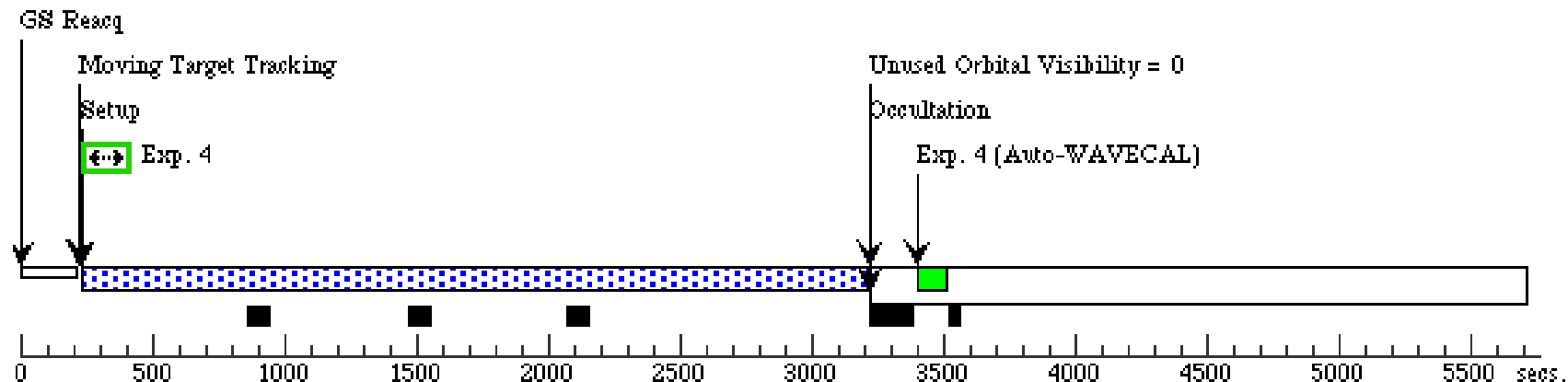
Orbit 2

Server Version: 20150128



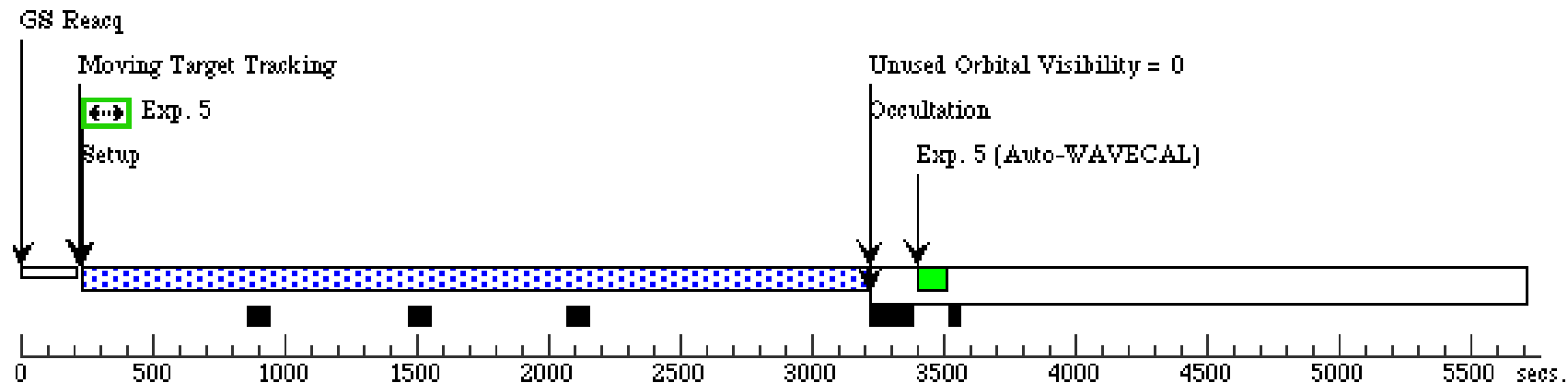
Orbit 3

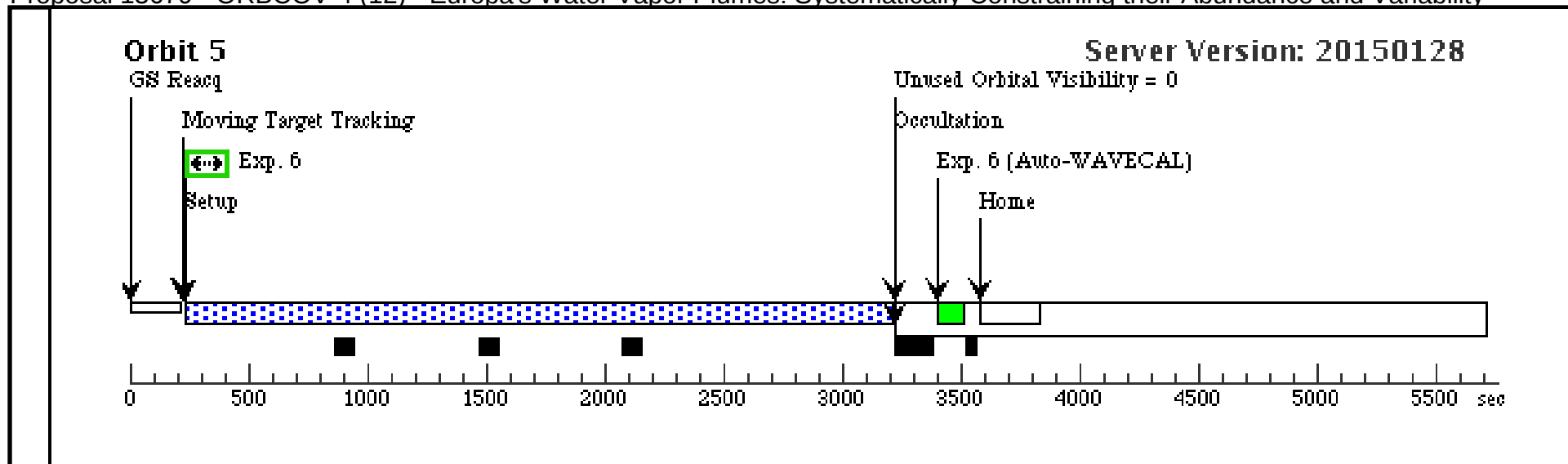
Server Version: 20150128



Orbit 4

Server Version: 20150128



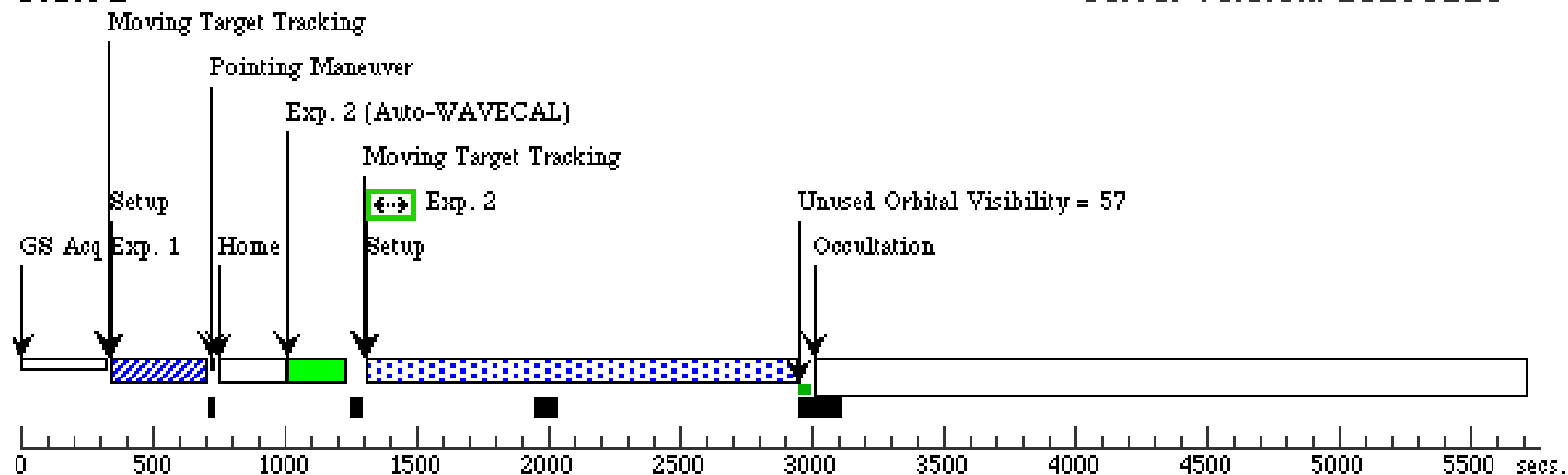


Proposal 13679 - ECLIPSE-1 (13) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, ECLIPSE-1 (13), completed										Tue Apr 07 01:01:29 GMT 2015	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: SCHED 90%; BETWEEN 15-NOV-2014:00:00:00 AND 08-DEC-2014:00:00:00											
Comments: Targeted true anomaly interval: 301 < TA < 353 deg												
Diagnostics	(Exposure 2 (ECLIPSE-1 (13))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 3 (ECLIPSE-1 (13))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(13)	IO-ACQ	STD=JUPITER	STD=IO		SEP OF IO-ACQ JUPITER FROM EARTH GT 15", SEP OF IO-ACQ CALLISTO FROM EARTH GT 10", SEP OF IO-ACQ EUROPA FROM EARTH GT 10", SEP OF IO-ACQ GANYMEDE FROM EARTH GT 10", NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT ECL U OF IO BY JUPITER	EARTH					
	Comments: For target acquisition when Europa is in Jupiter transit or eclipse.											
	(16)	EUROPA-ECLIPSE-COPY	STD=JUPITER	STD=EUROPA		SEP OF EUROPA JUPITER FROM EARTH GT 4", SEP OF EUROPA-ECLIPSE-COPY CALLISTO FROM EARTH GT 5", SEP OF EUROPA-ECLIPSE-COPY IO FROM EARTH GT 5", SEP OF EUROPA-ECLIPSE-COPY GANYMEDE FROM EARTH GT 5", ECL U OF EUROPA BY JUPITER	EARTH					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit		
	1	(13) IO-ACQ	STIS/CCD, ACQ, F28X50LP	MIRROR		ACQTYPE=DIFFUSE; CHECKBOX=21; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]	[1]		
	Comments: Satellite can be changed to Ganymede or Callisto (Target GANYMEDE-ACQ / CALLISTO-ACQ) if more suitable for acquisition. The CHECKBOX parameter needs to be changed to 31 (GANYMEDE) or 29 (CALLISTO).											
	2	(16) EUROPA-ECLIPSE-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0	GS ACQ SCENARIO BASE1B3			1575 Secs (1575 Secs) [==>]	[1]		
	3	(16) EUROPA-ECLIPSE-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0				1575 Secs (1575 Secs) [==>]	[2]		

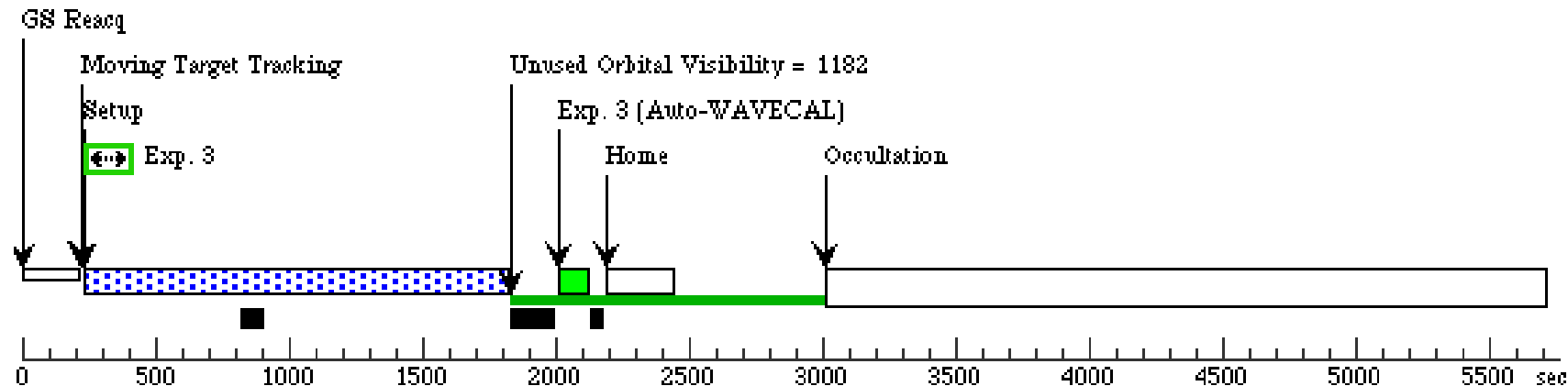
Orbit 1

Server Version: 20150128



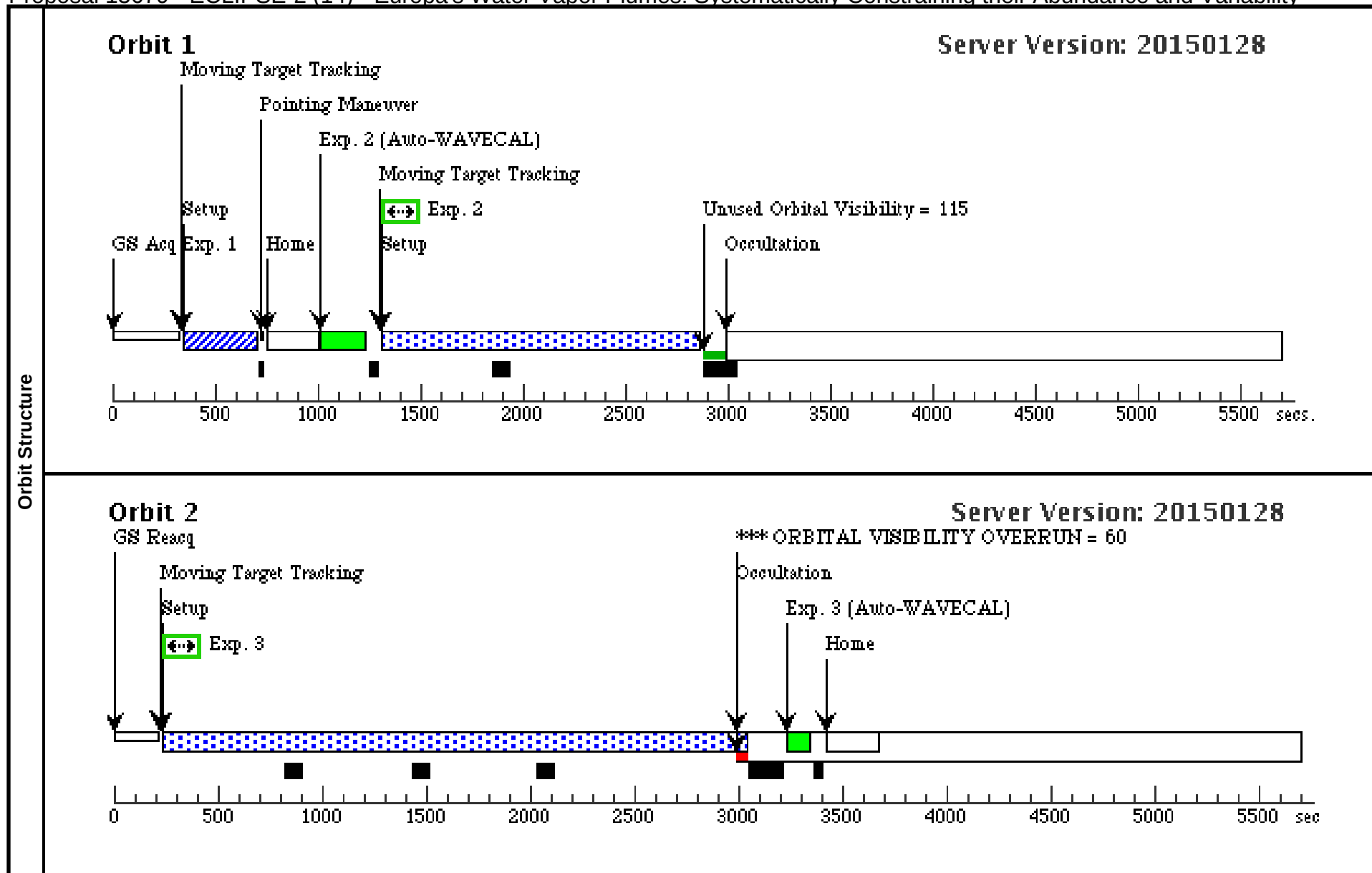
Orbit 2

Server Version: 20150128



Proposal 13679 - ECLIPSE-2 (14) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, ECLIPSE-2 (14), completed										Tue Apr 07 01:01:29 GMT 2015	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: SCHED 100%; BETWEEN 09-DEC-2014:00:00:00 AND 02-JAN-2015:00:00:00											
Comments: Targeted true anomaly interval: 323 < TA < 15 deg												
Diagnostics	(ECLIPSE-2 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Exposure 2 (ECLIPSE-2 (14))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 3 (ECLIPSE-2 (14))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(11)	EUROPA-ECLIPSE	STD=JUPITER	STD=EUROPA		SEP OF EUROPA JUPITER FROM EARTH GT 10", SEP OF EUROPA-ECLIPSE CALLISTO FROM EARTH GT 5", SEP OF EUROPA-ECLIPSE IO FROM EARTH GT 5", SEP OF EUROPA-ECLIPSE GANYMEDE FROM EARTH GT 5", NOT CML OF JUPITER FROM EUROPA BETWEEN 153 241, NOT CML OF JUPITER FROM EUROPA BETWEEN 333 61, ECL U OF EUROPA BY JUPITER	EARTH					
	(13)	IO-ACQ	STD=JUPITER	STD=IO		SEP OF IO-ACQ JUPITER FROM EARTH GT 15", SEP OF IO-ACQ CALLISTO FROM EARTH GT 10", SEP OF IO-ACQ EUROPA FROM EARTH GT 10", SEP OF IO-ACQ GANYMEDE FROM EARTH GT 10", NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT ECL U OF IO BY JUPITER	EARTH					
	Comments: For target acquisition when Europa is in Jupiter transit or eclipse.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit		
	1		(13) IO-ACQ	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=21; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]		[1]	
	Comments: Satellite can be changed to Ganymede or Callisto (Target GANYMEDE-ACQ / IO-ACQ) if more suitable for acquisition. The CHECKBOX parameter needs to be changed to 33 (GANYMEDE) or 23 (IO).											
	2		(11) EUROPA-ECLIPSE	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=50 0	GS ACQ SCENARIO BASE1B3		1500 Secs (1500 Secs) [==>]		[1]	
	3		(11) EUROPA-ECLIPSE	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2800 Secs) [==>]		[2]	

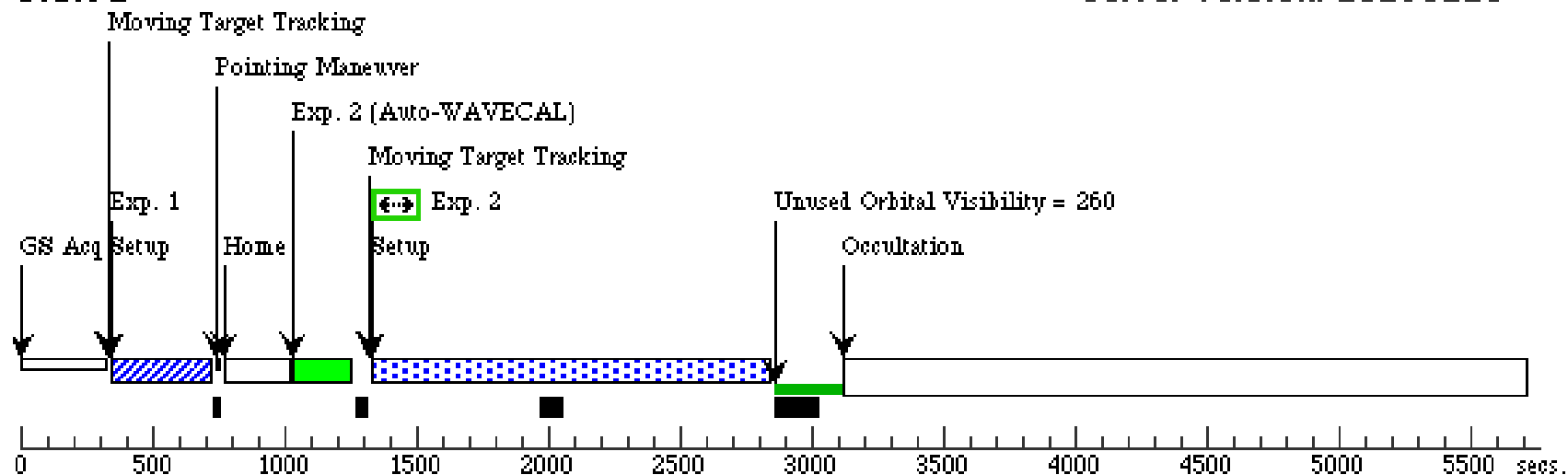


Proposal 13679 - ECLIPSE-3 (15) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, ECLIPSE-3 (15), implementation										Tue Apr 07 01:01:29 GMT 2015	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: SCHED 70%; BETWEEN 08-MAR-2015:00:00:00 AND 20-APR-2015:00:00:00											
Comments: Targeted true anomaly interval: 39 < TA < 91 deg												
Diagnostics	(Exposure 2 (ECLIPSE-3 (15))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 3 (ECLIPSE-3 (15))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(13)	IO-ACQ	STD=JUPITER	STD=IO		SEP OF IO-ACQ JUPITER FROM EARTH GT 15", SEP OF IO-ACQ CALLISTO FROM EARTH GT 10", SEP OF IO-ACQ EUROPA FROM EARTH GT 10", SEP OF IO-ACQ GANYMEDE FROM EARTH GT 10", NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT ECL U OF IO BY JUPITER	EARTH					
	Comments: For target acquisition when Europa is in Jupiter transit or eclipse.											
	(20)	EUROPA-ECLIPSE-COPY-1	STD=JUPITER	STD=EUROPA		SEP OF EUROPA JUPITER FROM EARTH GT 4", SEP OF EUROPA-ECLIPSE-COPY-1 CALLISTO FROM EARTH GT 5", SEP OF EUROPA-ECLIPSE-COPY-1 IO FROM EARTH GT 5", SEP OF EUROPA-ECLIPSE-COPY-1 GANYMEDE FROM EARTH GT 5", ECL U OF EUROPA BY JUPITER	EARTH					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit		
	1		(13) IO-ACQ	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=23; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]		[1]	
	Comments: Satellite can be changed to Ganymede or Callisto (Target GANYMEDE-ACQ / CALLISTO-ACQ) if more suitable for acquisition. The CHECKBOX parameter needs to be changed to 33 (GANYMEDE) or 29 (CALLISTO).											
	2		(20) EUROPA-ECLIPSE-COPY-1	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0	GS ACQ SCENARIO BASE1B3		1800 Secs (1460 Secs) [==>1460 Secs]		[1]	
	3		(20) EUROPA-ECLIPSE-COPY-1	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2865 Secs) [==>2865.0 Secs]		[2]	

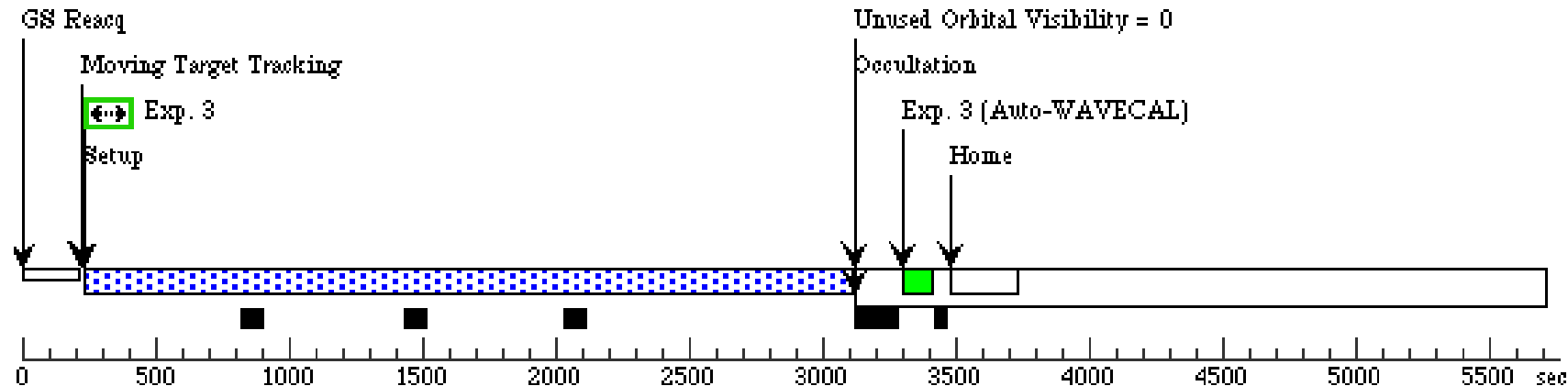
Orbit 1

Server Version: 20150128



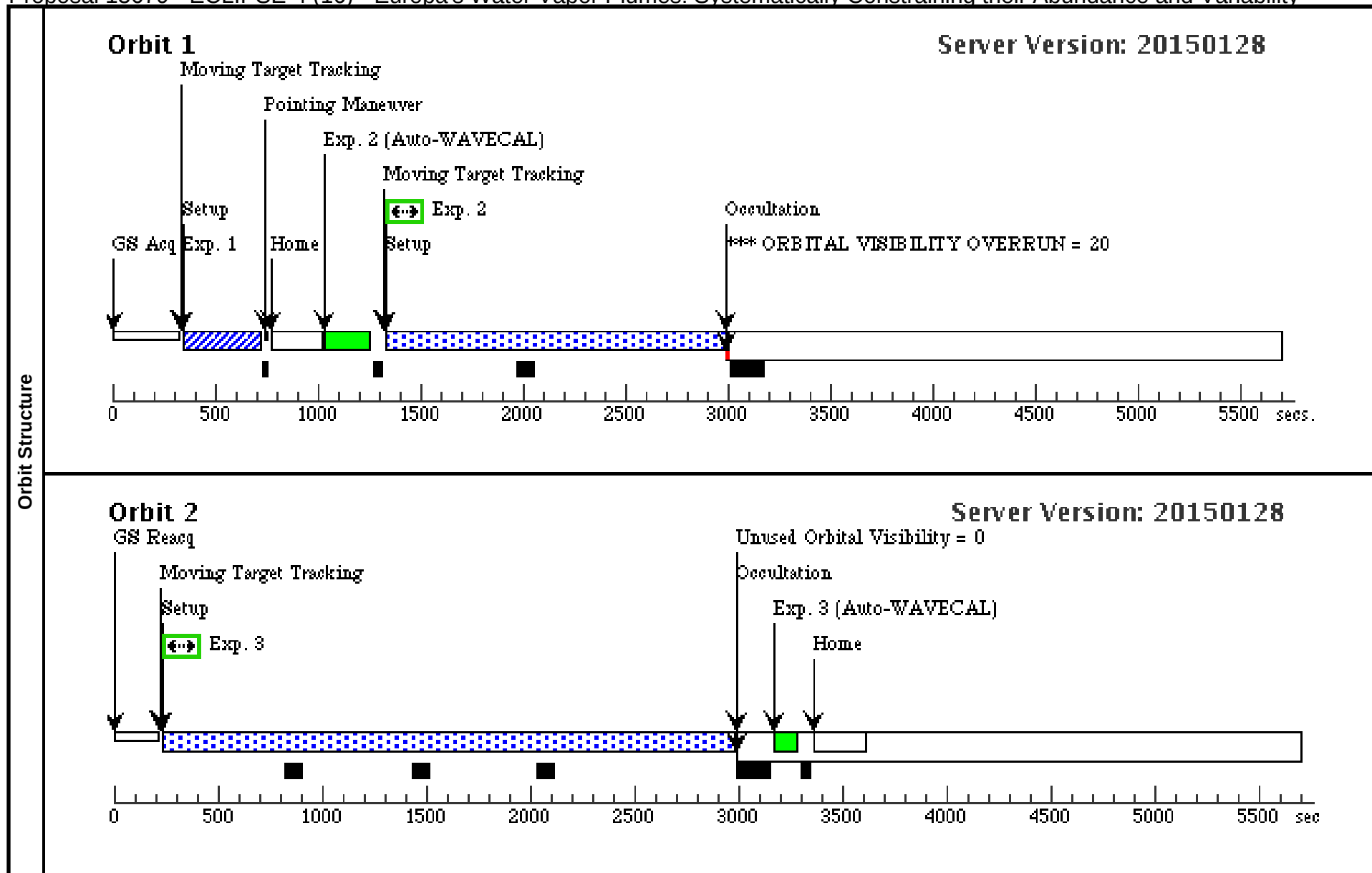
Orbit 2

Server Version: 20150128



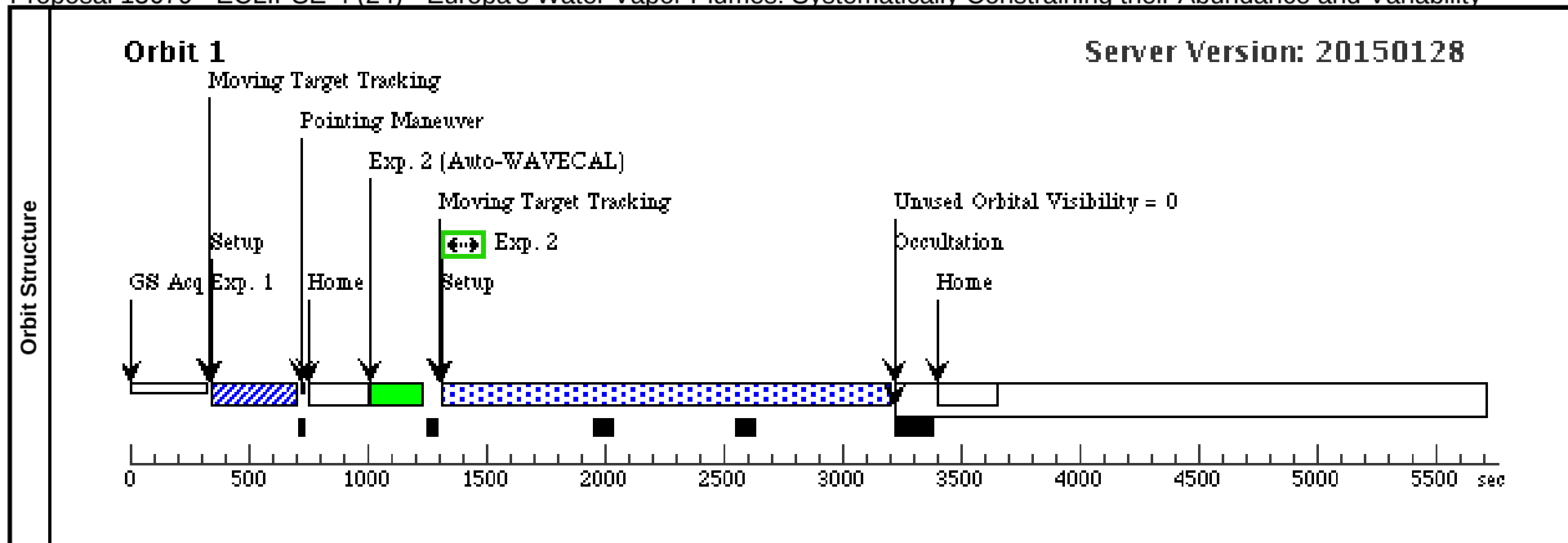
Proposal 13679 - ECLIPSE-4 (16) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, ECLIPSE-4 (16), completed										Tue Apr 07 01:01:29 GMT 2015	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: SCHED 100%; BETWEEN 22-MAR-2015 AND 25-MAR-2015											
	Comments: Targeted true anomaly interval: 58 < TA < 110 deg											
Visit 16 has been broken up into two single orbit visits. The other visit is 24.												
Diagnostics	(ECLIPSE-4 (16)) Warning (Orbit Planner): INVALID GS ACQ SCENARIO SPECIAL REQUIREMENT											
	(ECLIPSE-4 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Exposure 2 (ECLIPSE-4 (16))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 3 (ECLIPSE-4 (16))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(13)	IO-ACQ	STD=JUPITER	STD=IO		SEP OF IO-ACQ JUPITER FROM EARTH GT 15", SEP OF IO-ACQ CALLISTO FROM EARTH GT 10", SEP OF IO-ACQ EUROPA FROM EARTH GT 10", SEP OF IO-ACQ GANYMEDE FROM EARTH GT 10", NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT ECL U OF IO BY JUPITER	EARTH					
	Comments: For target acquisition when Europa is in Jupiter transit or eclipse.											
	(23)	EUROPA-ECLIPSE-COPY-2	STD=JUPITER	STD=EUROPA		SEP OF EUROPA JUPITER FROM EARTH GT 4", SEP OF EUROPA-ECLIPSE-COPY-2 CALLISTO FROM EARTH GT 5", SEP OF EUROPA-ECLIPSE-COPY-2 IO FROM EARTH GT 5", SEP OF EUROPA-ECLIPSE-COPY-2 GANYMEDE FROM EARTH GT 5"	EARTH					
	Comments: Target will be used in visit 16. Eclipse requirement removed due to not all of the exp in visit 16 will be done with Europa in Eclipse.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(13) IO-ACQ	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=23; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]		[1]	
	Comments: Satellite can be changed to Ganymede or Callisto (Target GANYMEDE-ACQ / CALLISTO-ACQ) if more suitable for acquisition. The CHECKBOX parameter needs to be changed to 31 (GANYMEDE) or 29 (CALLISTO).											
	2		(23) EUROPA-ECLIPSE-COPY-2	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=600	GS ACQ SCENARIO BASE1B3		1800 Secs (1615 Secs) [==>1615.0 Secs]		[1]	
	3		(23) EUROPA-ECLIPSE-COPY-2	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=600	GS ACQ SCENARIO BASE1B3		1800 Secs (2740 Secs) [==>2740.0 Secs]		[2]	



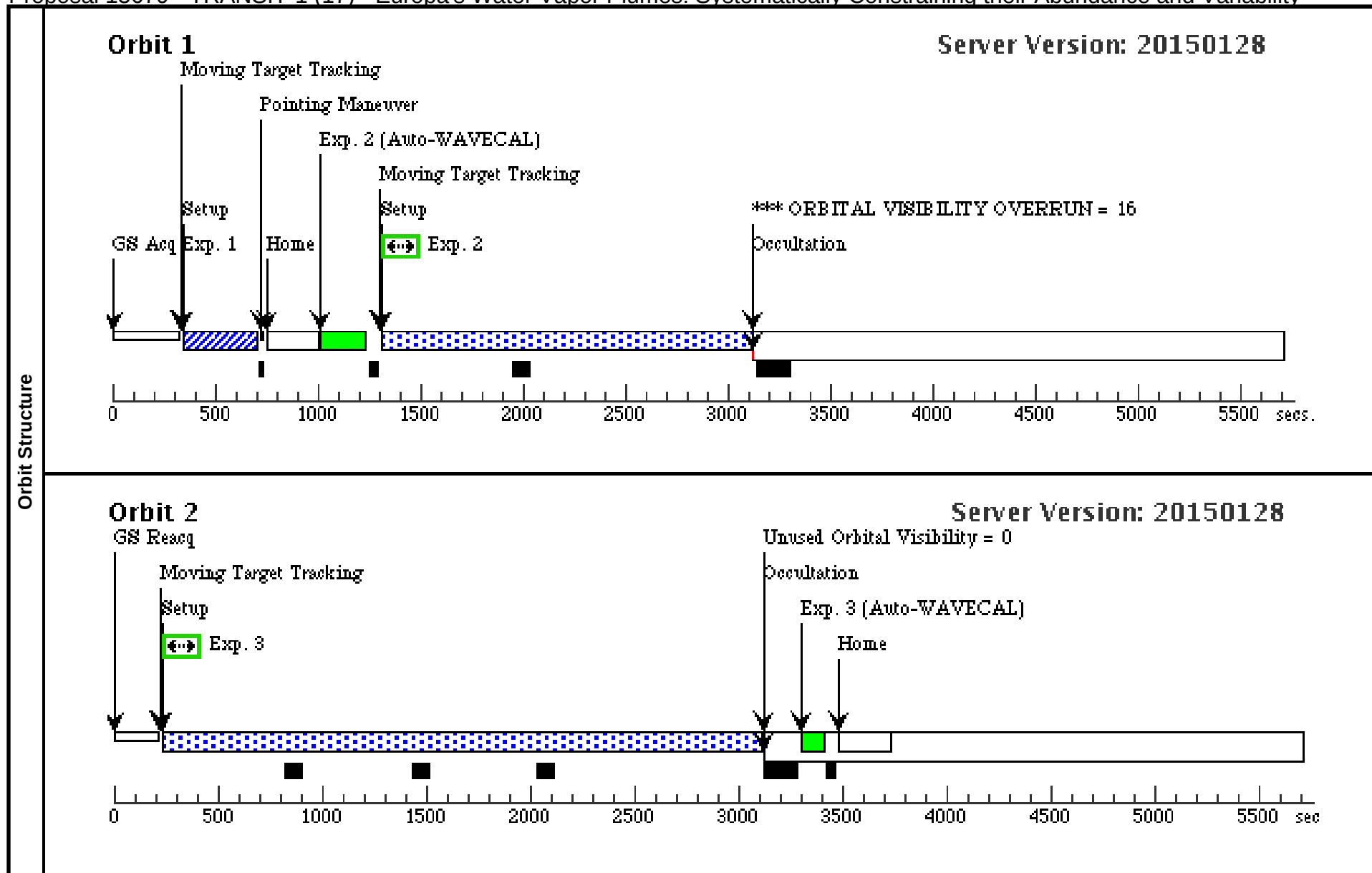
Proposal 13679 - ECLIPSE-4 (24) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, ECLIPSE-4 (24), completed										Tue Apr 07 01:01:29 GMT 2015	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: BETWEEN 02-APR-2015:00:00:00 AND 05-APR-2015											
	Comments: Targeted true anomaly interval: 58 < TA < 110 deg											
Visit 16 has been broken up into two single orbit visits.												
Diagnostics	(Exposure 2 (ECLIPSE-4 (24))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(13)	IO-ACQ	STD=JUPITER	STD=IO		SEP OF IO-ACQ JUPITER FROM EARTH GT 15", EARTH GT 15", SEP OF IO-ACQ CALLISTO FROM EARTH GT 10", EARTH GT 10", SEP OF IO-ACQ EUROPA FROM EARTH GT 10", EARTH GT 10", SEP OF IO-ACQ GANYMEDE FROM EARTH GT 10", NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT ECL U OF IO BY JUPITER	EARTH					
	Comments: For target acquisition when Europa is in Jupiter transit or eclipse.											
	(16)	EUROPA-ECLIPSE-COPY	STD=JUPITER	STD=EUROPA		SEP OF EUROPA JUPITER FROM EARTH GT 4", EARTH GT 4", SEP OF EUROPA-ECLIPSE-COPY CALLISTO FROM EARTH GT 5", SEP OF EUROPA-ECLIPSE-COPY IO FROM EARTH GT 5", SEP OF EUROPA-ECLIPSE-COPY GANYMEDE FROM EARTH GT 5", ECL U OF EUROPA BY JUPITER	EARTH					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(13) IO-ACQ	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=21; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]		[1]	
	Comments: Satellite can be changed to Ganymede or Callisto (Target GANYMEDE-ACQ / CALLISTO-ACQ) if more suitable for acquisition. The CHECKBOX parameter needs to be changed to 31 (GANYMEDE) or 29 (CALLISTO).											
	2		(16) EUROPA-ECLIPSE-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0	GS ACQ SCENARIO BASE1B3		1800 Secs (1838 Secs) [==>1838.0 Secs]		[1]	



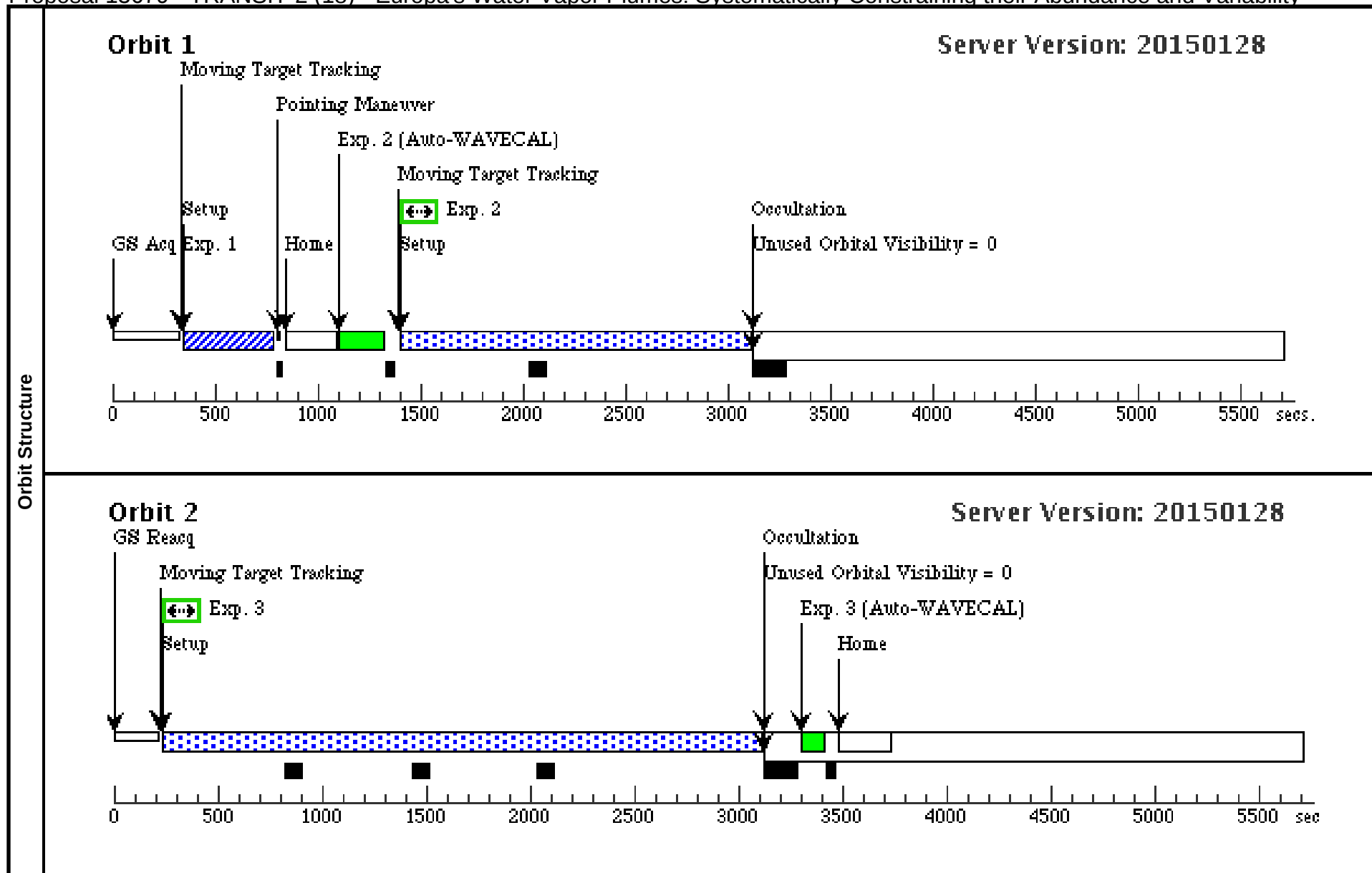
Proposal 13679 - TRANSIT-1 (17) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, TRANSIT-1 (17), completed										Tue Apr 07 01:01:30 GMT 2015	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: SCHED 70%; BETWEEN 04-DEC-2014:00:00:00 AND 17-DEC-2014:00:00:00											
Comments: Targeted true anomaly interval: 95 < TA < 137 deg												
Diagnostics	(TRANSIT-1 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Exposure 2 (TRANSIT-1 (17))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 3 (TRANSIT-1 (17))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(12)	EUROPA-TRANSIT	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-TRANSIT CALLISTO FROM EARTH GT 5", SEP OF EUROPA-TRANSIT IO FROM EARTH GT 5", SEP OF EUROPA-TRANSIT GANYMEDE FROM EARTH GT 5", NOT CML OF JUPITER FROM EUROPA BETWEEN 63 151, NOT CML OF JUPITER FROM EUROPA BETWEEN 243 331, TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH	EARTH					
	(13)	IO-ACQ	STD=JUPITER	STD=IO		SEP OF IO-ACQ JUPITER FROM EARTH GT 15", SEP OF IO-ACQ CALLISTO FROM EARTH GT 10", SEP OF IO-ACQ EUROPA FROM EARTH GT 10", SEP OF IO-ACQ GANYMEDE FROM EARTH GT 10", NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT ECL U OF IO BY JUPITER	EARTH					
	Comments: For target acquisition when Europa is in Jupiter transit or eclipse.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(13) IO-ACQ	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=21; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]		[1]	
	Comments: Satellite can be changed to Ganymede or Callisto (Target GANYMEDE-ACQ / CALLISTO-ACQ) if more suitable for acquisition. The CHECKBOX parameter needs to be changed to 27 (GANYMEDE) or 25 (CALLISTO).											
	2		(12) EUROPA-TRANSIT	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0	GS ACQ SCENARIO BASE1B3		1800 Secs (1756 Secs) [==>1756.0 Secs]		[1]	
3		(12) EUROPA-TRANSIT	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2865 Secs) [==>2865.0 Secs]		[2]		



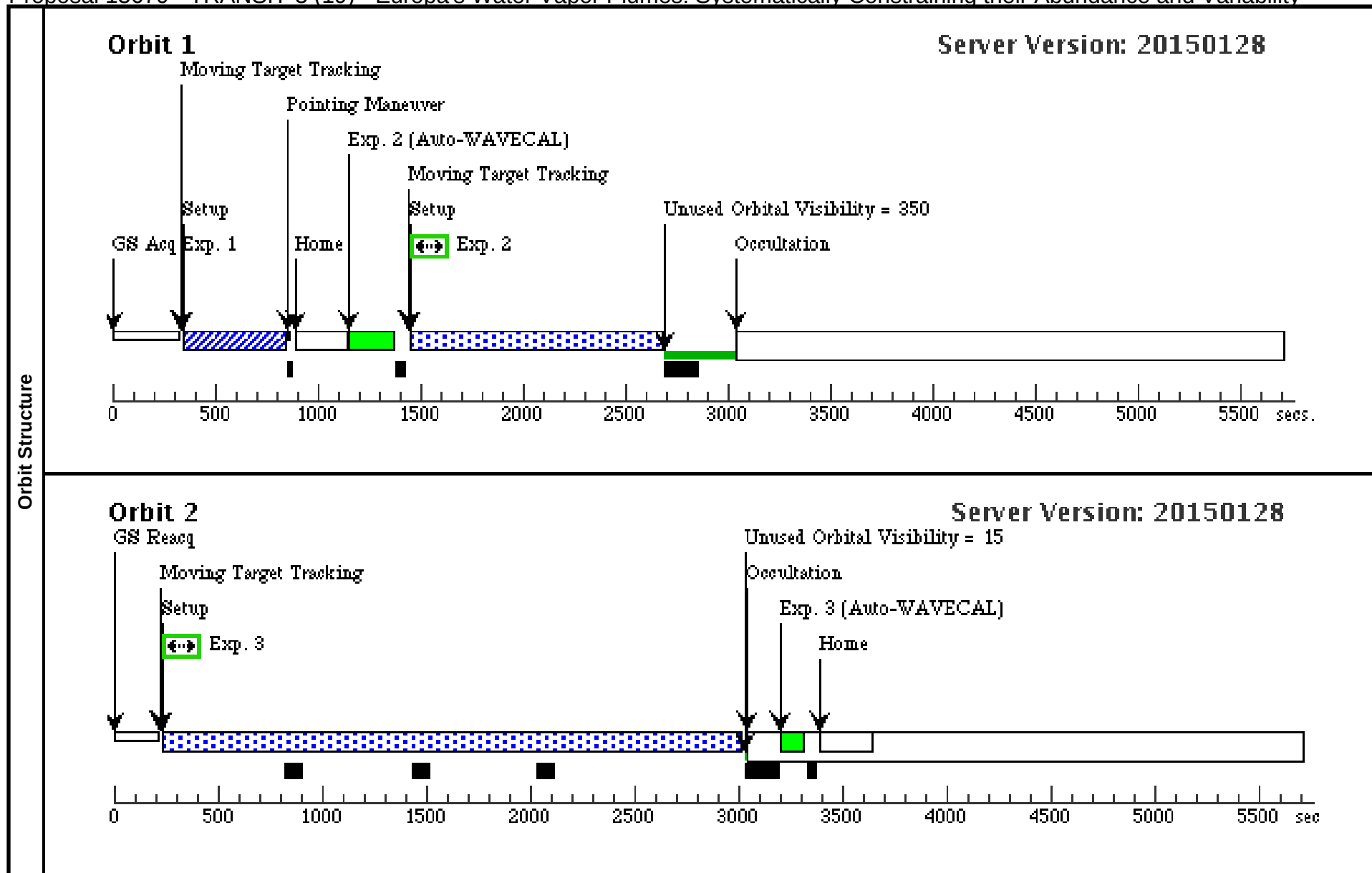
Proposal 13679 - TRANSIT-2 (18) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, TRANSIT-2 (18), completed										Tue Apr 07 01:01:30 GMT 2015
	Diagnostic Status: Warning										
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: SCHED 70%; BETWEEN 13-NOV-2014:00:00:00 AND 03-DEC-2014:00:00:00										
Comments: Targeted true anomaly interval: 130 < TA < 178 deg											
Diagnostics	(Exposure 2 (TRANSIT-2 (18))) Warning (Form): Sensitive exposures should have an ETC run number provided.										
	(Exposure 3 (TRANSIT-2 (18))) Warning (Form): Sensitive exposures should have an ETC run number provided.										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center				
	(12)	EUROPA-TRANSIT	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-TRANSIT CALLISTO FROM EARTH GT 5", SEP OF EUROPA-TRANSIT IO FROM EARTH GT 5", SEP OF EUROPA-TRANSIT GANYMEDE FROM EARTH GT 5", NOT CML OF JUPITER FROM EUROPA BETWEEN 63 151, NOT CML OF JUPITER FROM EUROPA BETWEEN 243 331, TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH	EARTH				
	(13)	IO-ACQ	STD=JUPITER	STD=IO		SEP OF IO-ACQ JUPITER FROM EARTH GT 15", SEP OF IO-ACQ CALLISTO FROM EARTH GT 10", SEP OF IO-ACQ EUROPA FROM EARTH GT 10", SEP OF IO-ACQ GANYMEDE FROM EARTH GT 10", NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT ECL U OF IO BY JUPITER	EARTH				
	Comments: For target acquisition when Europa is in Jupiter transit or eclipse.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1		(13) IO-ACQ	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=29; DIFFUSE-CENTER =GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]	[1]	
	Comments: Satellite can be changed to Io or Callisto (Target IO-ACQ / CALLISTO-ACQ) if more suitable for acquisition. The CHECKBOX parameter needs to be changed to 21 (IO) or 27 (CALLISTO).										
	2		(12) EUROPA-TRANSIT	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0	GS ACQ SCENARIO BASE1B3		1800 Secs (1656 Secs) [==>1656.0 Secs]	[1]	
	3		(12) EUROPA-TRANSIT	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2865 Secs) [==>2865.0 Secs]	[2]	



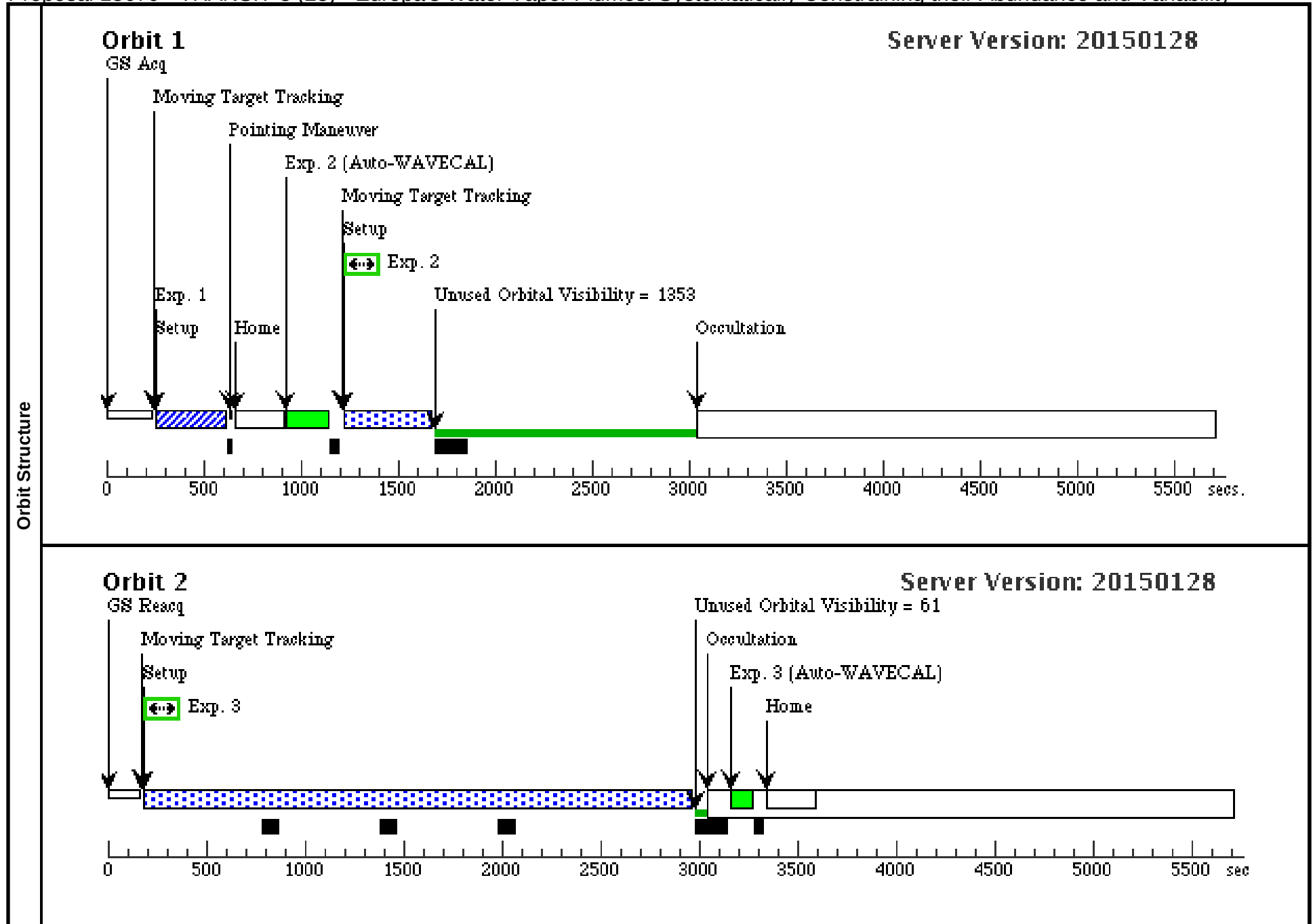
Proposal 13679 - TRANSIT-3 (19) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, TRANSIT-3 (19), failed										Tue Apr 07 01:01:30 GMT 2015	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: SCHED 80%; BETWEEN 18-DEC-2014:00:00:00 AND 07-JAN-2015:00:00:00											
Comments: Targeted true anomaly interval: 158 < TA < 206 deg												
Diagnostics	(Exposure 2 (TRANSIT-3 (19))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 3 (TRANSIT-3 (19))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(14)	GANYMEDE-ACQ	STD=JUPITER	STD=GANYMEDE		SEP OF GANYMEDE-ACQ JUPITER FROM EARTH GT 30", SEP OF GANYMEDE-ACQ CALLISTO FROM EARTH GT 10", SEP OF GANYMEDE-ACQ IO FROM EARTH GT 10", SEP OF GANYMEDE-ACQ EUROPA FROM EARTH GT 10", NOT TRANSIT OF GANYMEDE ACROSS JUPITER FROM EARTH, NOT ECL U OF GANYMEDE BY JUPITER	EARTH					
	Comments: For target acquisition when Europa is in Jupiter transit or eclipse.											
	(17)	EUROPA-TRANSIT2	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-TRANSIT2 CALLISTO FROM EARTH GT 5", SEP OF EUROPA-TRANSIT2 IO FROM EARTH GT 2", SEP OF EUROPA-TRANSIT2 GANYMEDE FROM EARTH GT 5", NOT CML OF JUPITER FROM EUROPA BETWEEN 63 151, NOT CML OF JUPITER FROM EUROPA BETWEEN 243 331, TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH	EARTH					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(14) GANYMEDE-ACQ	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=33; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]		[1]	
	Comments: Satellite can be changed to Io or Callisto (Target IO-ACQ / CALLISTO-ACQ) if more suitable for acquisition. The CHECKBOX parameter needs to be changed to 23 (IO) or 29 (CALLISTO).											
	2		(17) EUROPA-TRANSIT2	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0	GS ACQ SCENARIO BASE1B3		1175 Secs (1175 Secs) [==>]		[1]	
	3		(17) EUROPA-TRANSIT2	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2771 Secs (2771 Secs) [==>]		[2]	



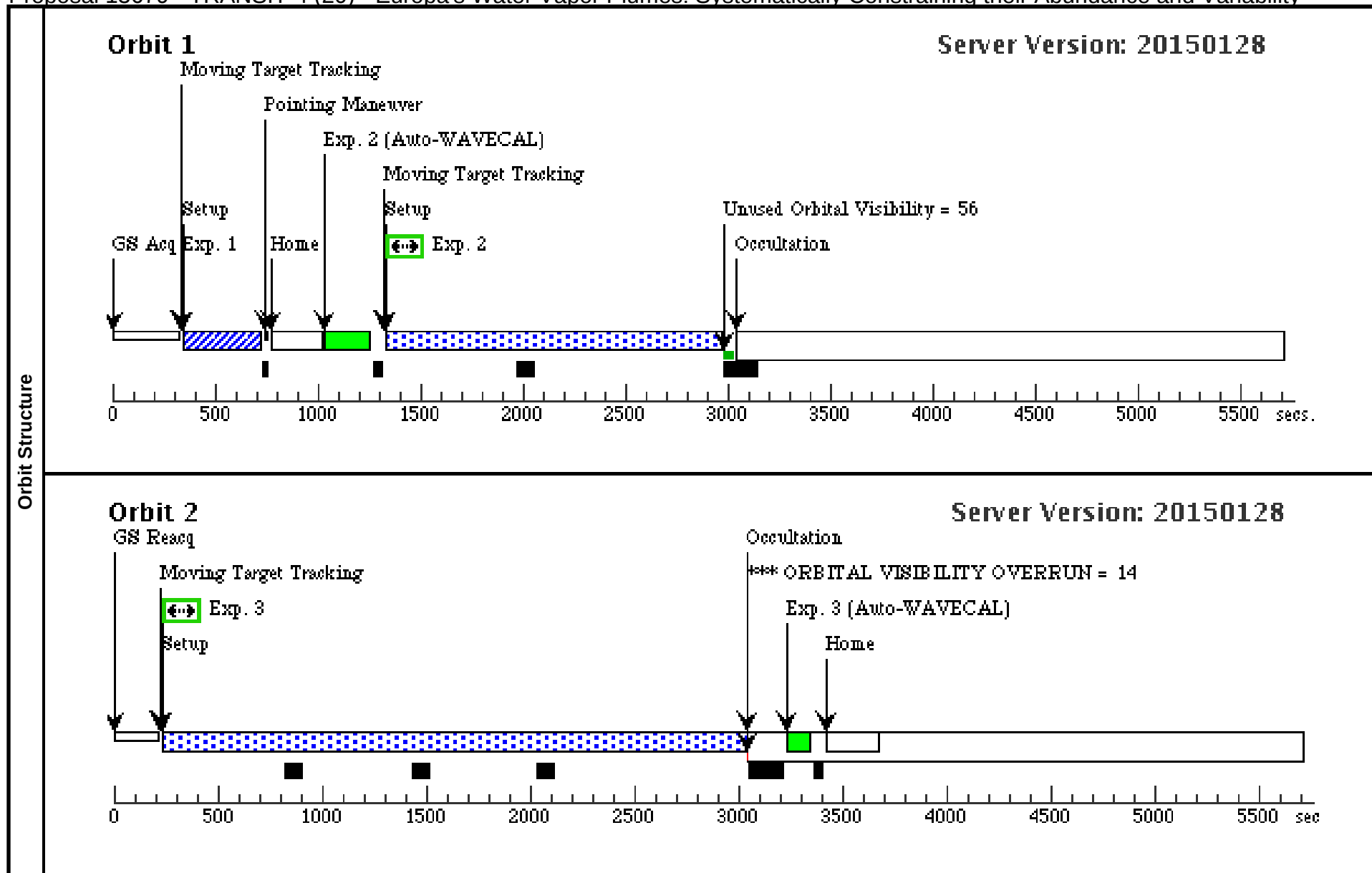
Proposal 13679 - TRANSIT-3 (23) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, TRANSIT-3 (23), completed							Tue Apr 07 01:01:30 GMT 2015		
	Diagnostic Status: Warning									
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA									
	Special Requirements: SCHED 80%; BETWEEN 01-FEB-2014:00:00:00 AND 31-MAR-2015:00:00:00									
	Comments: Targeted true anomaly interval: 158 < TA < 206 deg									
HOPR repeat of visit 19.										
Diagnostics	(Exposure 2 (TRANSIT-3 (23))) Warning (Form): Sensitive exposures should have an ETC run number provided.									
	(Exposure 3 (TRANSIT-3 (23))) Warning (Form): Sensitive exposures should have an ETC run number provided.									
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(13)	IO-ACQ	STD=JUPITER	STD=IO		SEP OF IO-ACQ JUPITER FROM EARTH GT 15", EARTH GT 15", SEP OF IO-ACQ CALLISTO FROM EARTH GT 10", SEP OF IO-ACQ EUROPA FROM EARTH GT 10", SEP OF IO-ACQ GANYMEDE FROM EARTH GT 10", NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT ECL U OF IO BY JUPITER	EARTH			
	Comments: For target acquisition when Europa is in Jupiter transit or eclipse.									
	(17)	EUROPA-TRANSIT2	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-TRANSIT2 CALLISTO FROM EARTH GT 5", SEP OF EUROPA-TRANSIT2 IO FROM EARTH GT 2", SEP OF EUROPA-TRANSIT2 GANYMEDE FROM EARTH GT 5", NOT CML OF JUPITER FROM EUROPA BETWEEN 63 151, NOT CML OF JUPITER FROM EUROPA BETWEEN 243 331, TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH	EARTH			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(13) IO-ACQ	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=21; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO SINGLE		0.1 Secs (0.1 Secs) [==>]	[1]
	Comments: Satellite can be changed to Io or Callisto (Target IO-ACQ / CALLISTO-ACQ) if more suitable for acquisition. The CHECKBOX parameter needs to be changed to 23 (IO) or 29 (CALLISTO).									
	2		(17) EUROPA-TRANSIT2	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0	GS ACQ SCENARIO SINGLE		400 Secs (400 Secs) [==>]	[1]
	3		(17) EUROPA-TRANSIT2	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2771 Secs (2771 Secs) [==>]	[2]



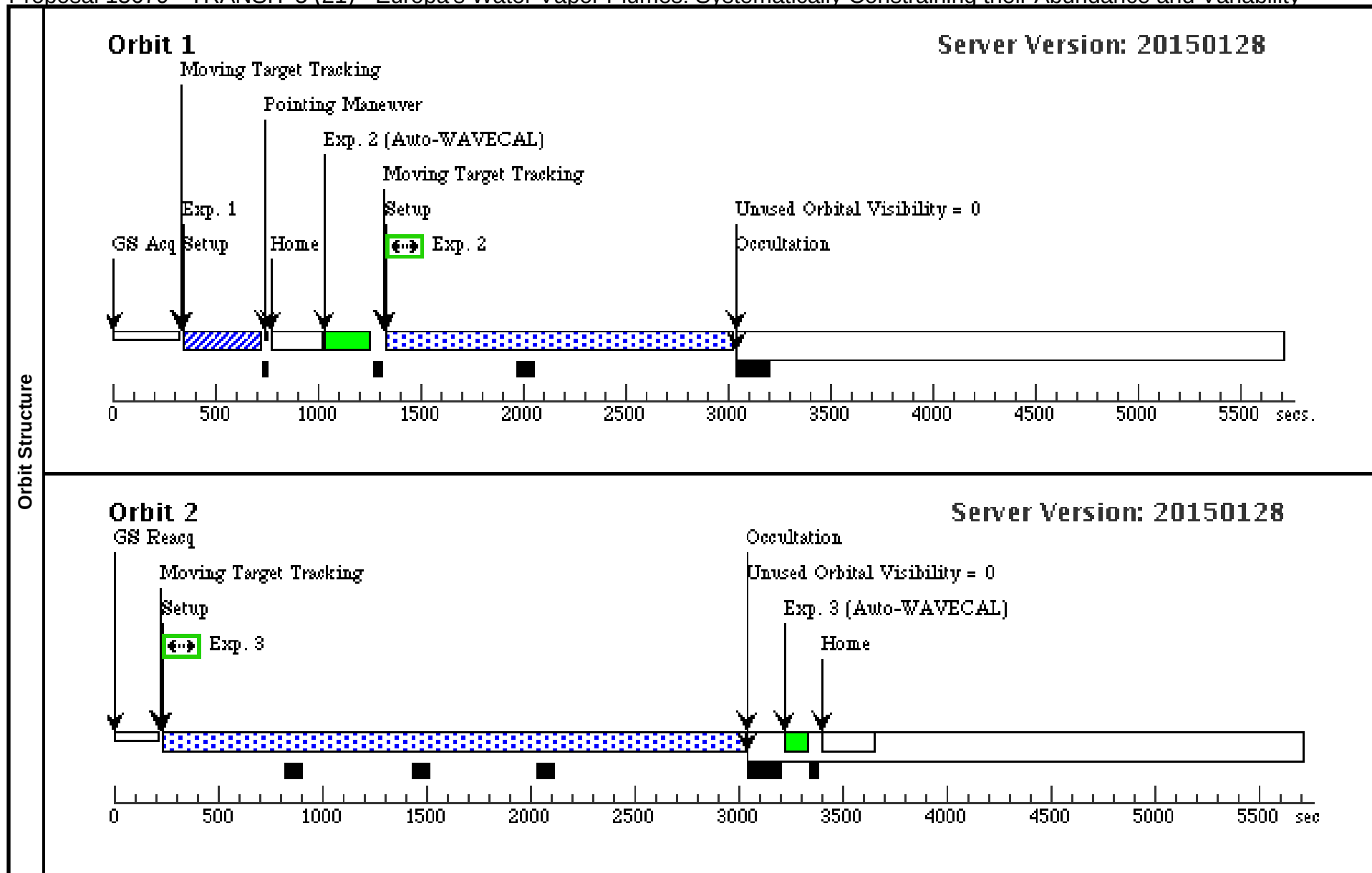
Proposal 13679 - TRANSIT-4 (20) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, TRANSIT-4 (20), completed										Tue Apr 07 01:01:30 GMT 2015	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: SCHED 80%; BETWEEN 16-JAN-2015:00:00:00 AND 04-FEB-2015:00:00:00											
Comments: Targeted true anomaly interval: 178 < TA < 226 deg												
Diagnostics	(TRANSIT-4 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
	(Exposure 2 (TRANSIT-4 (20))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 3 (TRANSIT-4 (20))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(12)	EUROPA-TRANSIT	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-TRANSIT CALLISTO FROM EARTH GT 5", SEP OF EUROPA-TRANSIT IO FROM EARTH GT 5", SEP OF EUROPA-TRANSIT GANYMEDE FROM EARTH GT 5", NOT CML OF JUPITER FROM EUROPA BETWEEN 63 151, NOT CML OF JUPITER FROM EUROPA BETWEEN 243 331, TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH	EARTH					
	(14)	GANYMEDE-ACQ	STD=JUPITER	STD=GANYMEDE		SEP OF GANYMEDE-ACQ JUPITER FROM EARTH GT 30", SEP OF GANYMEDE-ACQ CALLISTO FROM EARTH GT 10", SEP OF GANYMEDE-ACQ IO FROM EARTH GT 10", SEP OF GANYMEDE-ACQ EUROPA FROM EARTH GT 10", NOT TRANSIT OF GANYMEDE ACROSS JUPITER FROM EARTH, NOT ECL U OF GANYMEDE BY JUPITER	EARTH					
	Comments: For target acquisition when Europa is in Jupiter transit or eclipse.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(14) GANYMEDE-ACQ	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=23; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]		[1]	
	Comments: Satellite can be changed to Ganymede or Callisto (Target GANYMEDE-ACQ / CALLISTO-ACQ) if more suitable for acquisition. The CHECKBOX parameter needs to be changed to 33 (GANYMEDE) or 31 (CALLISTO).											
	2		(12) EUROPA-TRANSIT	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0	GS ACQ SCENARIO BASE1B3		1585 Secs (1585 Secs) [==>]		[1]	
	3		(12) EUROPA-TRANSIT	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2800 Secs) [==>]		[2]	



Proposal 13679 - TRANSIT-5 (21) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, TRANSIT-5 (21), completed										Tue Apr 07 01:01:30 GMT 2015	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: SCHED 80%; BETWEEN 10-FEB-2015:00:00:00 AND 05-MAR-2015:00:00:00											
Comments: Targeted true anomaly interval: 192 < TA < 240 deg												
Diagnostics	(Exposure 2 (TRANSIT-5 (21))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 3 (TRANSIT-5 (21))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(12)	EUROPA-TRANSIT	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-TRANSIT CALLISTO FROM EARTH GT 5", SEP OF EUROPA-TRANSIT IO FROM EARTH GT 5", SEP OF EUROPA-TRANSIT GANYMEDE FROM EARTH GT 5", NOT CML OF JUPITER FROM EUROPA BETWEEN 63 151, NOT CML OF JUPITER FROM EUROPA BETWEEN 243 331, TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH	EARTH					
	(13)	IO-ACQ	STD=JUPITER	STD=IO		SEP OF IO-ACQ JUPITER FROM EARTH GT 15", SEP OF IO-ACQ CALLISTO FROM EARTH GT 10", SEP OF IO-ACQ EUROPA FROM EARTH GT 10", SEP OF IO-ACQ GANYMEDE FROM EARTH GT 10", NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT ECL U OF IO BY JUPITER	EARTH					
	Comments: For target acquisition when Europa is in Jupiter transit or eclipse.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(13) IO-ACQ	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=23; DIFFUSE-CENTER =GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]		[1]	
	Comments: Satellite can be changed to Ganymede or Callisto (Target GANYMEDE-ACQ / CALLISTO-ACQ) if more suitable for acquisition. The CHECKBOX parameter needs to be changed to 33 (GANYMEDE) or 31 (CALLISTO).											
	2		(12) EUROPA-TRANSIT	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0	GS ACQ SCENARIO BASE1B3		1800 Secs (1641 Secs) [==>1641.0 Secs]		[1]	
3		(12) EUROPA-TRANSIT	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2786 Secs) [==>2786.0 Secs]		[2]		



Proposal 13679 - TRANSIT-6 (22) - Europa's Water Vapor Plumes: Systematically Constraining their Abundance and Variability

Visit	Proposal 13679, TRANSIT-6 (22), completed										Tue Apr 07 01:01:30 GMT 2015	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: SCHED 60%											
	Comments: Targeted true anomaly interval: 211 < TA < 259 deg.											
We will be doing a target acq on Europa before it starts to transit across Jupiter. For exposure 2 Europa will still not be transiting, but it will be for all of exposure 3.												
Diagnostics	(Exposure 2 (TRANSIT-6 (22))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
	(Exposure 3 (TRANSIT-6 (22))) Warning (Form): Sensitive exposures should have an ETC run number provided.											
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center					
	(21)	EUROPA-TRANSIT2-COPY	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-TRANSIT2-COPY CALLISTO FROM EARTH GT 5", SEP OF EUROPA-TRANSIT2-COPY IO FROM EARTH GT 2", SEP OF EUROPA-TRANSIT2-COPY GANYMEDE FROM EARTH GT 5"	EARTH					
	Comments: For use in visit 22.											
	(22)	EUROPA-ACQ	STD=JUPITER	STD=EUROPA		SEP OF EUROPA-ACQ JUPITER FROM EARTH GT 5", SEP OF EUROPA-ACQ CALLISTO FROM EARTH GT 10", SEP OF EUROPA-ACQ IO FROM EARTH GT 10", SEP OF EUROPA-ACQ GANYMEDE FROM EARTH GT 10"	EARTH					
	Comments: For target acquisition in visit 22.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(22) EUROPA-ACQ	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=19; DIFFUSE-CENTER=GEOMETRIC-CENTER	GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) [==>]		[1]	
	Comments: Satellite can be changed to Ganymede or Callisto (Target GANYMEDE-ACQ / CALLISTO-ACQ) if more suitable for acquisition. The CHECKBOX parameter needs to be changed to 33 (GANYMEDE) or 29 (CALLISTO).											
	2		(21) EUROPA-TRANSIT2-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0	GS ACQ SCENARIO BASE1B3		1800 Secs (1730 Secs) [==>1730.0 Secs]		[1]	
	3		(21) EUROPA-TRANSIT2-COPY	STIS/FUV-MAMA, TIME-TAG, 52X2D1	G140L 1425 A	BUFFER-TIME=60 0			2800 Secs (2875 Secs) [==>2875.0 Secs]		[2]	

