



15424 - An intensive ultraviolet imaging campaign for Europa's plumes

Cycle: 25, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. William B. Sparks (PI) (Contact)	SETI Institute	wsparks@seti.org
Dr. Melissa A. McGrath (CoI)	SETI Institute	mamcgrath@knology.net
Dr. Kevin P. Hand (CoI)	Jet Propulsion Laboratory	kevin.p.hand@jpl.nasa.gov
Dr. Britney Elyce Schmidt (CoI)	Georgia Tech Research Corp.	britneys@eas.gatech.edu
Dr. John R. Spencer (CoI)	Southwest Research Institute	spencer@boulder.swri.edu
Dr. John Grunsfeld (CoI)	NASA Goddard Space Flight Center	john.m.grunsfeld@alum.mit.edu
Mr. Louis Bergeron (CoI)	Space Telescope Science Institute	bergeron@stsci.edu
Dr. Susana E. Deustua (CoI)	Space Telescope Science Institute	deustua@stsci.edu
Ms. Misty Cracraft (CoI)	Space Telescope Science Institute	cracraft@stsci.edu

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-TRANSIT-OPP-1	STIS/FUV-MAMA	1	12-Jun-2019 15:03:48.0	yes
02	(2) EUROPA-TRANSIT-OPP-2	STIS/FUV-MAMA	1	12-Jun-2019 15:03:49.0	yes
03	(3) EUROPA-TRANSIT-OPP-3	STIS/FUV-MAMA	1	12-Jun-2019 15:03:50.0	yes
53	(53) EUROPA-TRANSIT-OPP-3-COPY	STIS/FUV-MAMA	1	12-Jun-2019 15:03:50.0	yes
04	(4) EUROPA-TRANSIT-OPP-4	STIS/FUV-MAMA	1	12-Jun-2019 15:03:51.0	yes
05	(5) EUROPA-TRANSIT-OPP-5	STIS/FUV-MAMA	1	12-Jun-2019 15:03:52.0	yes

Proposal 15424 (STScI Edit Number: 4, Created: Wednesday, June 12, 2019 at 2:04:14 PM Eastern Standard Time) - Overview

<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>
06	(6) EUROPA-TRANSIT-OPP-6	STIS/FUV-MAMA	1	12-Jun-2019 15:03:53.0	yes
07	(7) EUROPA-TRANSIT-OPP-7	STIS/FUV-MAMA	1	12-Jun-2019 15:03:54.0	yes
08	(8) EUROPA-TRANSIT-OPP-8	STIS/FUV-MAMA	1	12-Jun-2019 15:03:54.0	yes
09	(9) EUROPA-TRANSIT-9	STIS/FUV-MAMA	1	12-Jun-2019 15:03:55.0	yes
10	(10) EUROPA-TRANSIT-10	STIS/FUV-MAMA	1	12-Jun-2019 15:03:56.0	yes
11	(11) EUROPA-TRANSIT-11	STIS/FUV-MAMA	1	12-Jun-2019 15:03:57.0	yes
12	(12) EUROPA-TRANSIT-12	STIS/FUV-MAMA	1	12-Jun-2019 15:03:58.0	yes
13	(13) EUROPA-TRANSIT-13	STIS/FUV-MAMA	1	12-Jun-2019 15:03:59.0	yes
14	(14) EUROPA-TRANSIT-14	STIS/FUV-MAMA	1	12-Jun-2019 15:03:59.0	yes
15	(15) EUROPA-TRANSIT-15	STIS/FUV-MAMA	1	12-Jun-2019 15:04:00.0	yes
16	(16) EUROPA-TRANSIT-16	STIS/FUV-MAMA	1	12-Jun-2019 15:04:01.0	yes
17	(17) EUROPA-TRANSIT-17	STIS/FUV-MAMA	1	12-Jun-2019 15:04:02.0	yes
18	(18) EUROPA-TRANSIT-18	STIS/FUV-MAMA	1	12-Jun-2019 15:04:02.0	yes
19	(19) EUROPA-TRANSIT-19	STIS/FUV-MAMA	1	12-Jun-2019 15:04:04.0	yes
20	(20) EUROPA-TRANSIT-20	STIS/FUV-MAMA	1	12-Jun-2019 15:04:05.0	yes
70	(70) EUROPA-TRANSIT-20-COPY	STIS/FUV-MAMA	1	12-Jun-2019 15:04:05.0	yes
21	(21) EUROPA-TRANSIT-21	STIS/FUV-MAMA	1	12-Jun-2019 15:04:06.0	yes
22	(22) EUROPA-TRANSIT-22	STIS/FUV-MAMA	1	12-Jun-2019 15:04:07.0	yes
23	(23) EUROPA-TRANSIT-23	STIS/FUV-MAMA	1	12-Jun-2019 15:04:08.0	yes
24	(24) EUROPA-TRANSIT-24	STIS/FUV-MAMA	1	12-Jun-2019 15:04:08.0	yes
25	(25) EUROPA-TRANSIT-25	STIS/FUV-MAMA	1	12-Jun-2019 15:04:09.0	yes
26	(26) EUROPA-TRANSIT-26	STIS/FUV-MAMA	1	12-Jun-2019 15:04:10.0	yes
27	(27) EUROPA-TRANSIT-27	STIS/FUV-MAMA	1	12-Jun-2019 15:04:11.0	yes
28	(28) EUROPA-TRANSIT-28	STIS/FUV-MAMA	1	12-Jun-2019 15:04:12.0	yes
29	(29) EUROPA-TRANSIT-29	STIS/FUV-MAMA	1	12-Jun-2019 15:04:12.0	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>
30	(30) EUROPA-TRANSIT-30	STIS/FUV-MAMA	1	12-Jun-2019 15:04:13.0	yes
B4	DARK	STIS/FUV-MAMA	1	12-Jun-2019 15:04:14.0	yes

33 Total Orbits Used

ABSTRACT

The presence of plumes of water ice venting from the icy surface of Europa is of great interest to the scientific community, NASA and the general public, as plumes may provide access to material that was once in Europa's ocean without the need to drill through miles of ice. With a proven and published method that has returned crucial scientific data, we propose an intensive campaign of HST imaging observations of Europa as it transits the face of Jupiter, revealing plume candidates by their absorption of background light. The intermittency and relatively infrequent occurrences of the phenomenon require that a statistically large sample be accumulated covering a wide range of timescales. The transit method has proven its worth and is an extremely efficient approach. In Sparks et al. (2017) we showed that a plume candidate has repeated implying a duty cycle of approximately 15%. This plume is also coincident with a thermal anomaly, potentially related causally to plume activity. With a monitoring campaign we will establish the cadence with which plume candidates occur and reoccur, obtain their latitudinal distribution, and seek correlations with the orbital geometry of Europa and local terrain characteristics with vastly higher confidence and clarity. This campaign, providing plume cadence, magnitude and geographic distribution, will enable a robust discrimination of competing hypotheses for the plume candidates. If the ice plumes on Europa originate from water once within the deep ocean, or if they reveal processes within the ice shell, we will have greatly advanced our understanding of one of the most astrobiologically interesting locations in the Solar System.

OBSERVING DESCRIPTION

We aim to acquire 30 FUV observations of Europa as it transits Jupiter, eight of these within a month of opposition. We will use STIS TIME-TAG with the F25SRF2 filter, and target tracking specifications to Level 3 in order to drift the image of Europa on the detector as the observation progresses. We avoid phase angles less than 0.5 deg to maintain 1 Europa radius separation from its shadow.

Proposal 15424 - Visit 01 - An intensive ultraviolet imaging campaign for Europa's plumes

Wed Jun 12 19:04:14 GMT 2019

Visit	<p>Proposal 15424, Visit 01, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/FUV-MAMA</p> <p>Special Requirements: SCHED 100%; ORIENT 263.7D TO 273.7 D; BETWEEN 01-MAY-2019:00:00:00 AND 31-JUL-2019:00:00:00</p> <p><i>Comments: Preferred date: 17-MAY-2019</i></p>										
	<p>(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 1 (Visit 01)) Warning (Form): Sensitive exposures should have an ETC run number provided.</p>										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center				
	(1)	EUROPA-TRANSIT-OPP-1	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=-5.9,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=17-MAY-2019:16:27:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-1 BY JUPITER FROM EARTH	EARTH				
<p><i>Comments: Preferred date: 17-MAY-2019</i></p> <p><i>Description=Europa</i></p>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1		(1) EUROPA-TRAN SIT-OPP-1	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2560 Secs (2560 Secs) [==>]	[1]
Orbit Structure	<p>Orbit 1 Server Version: 20181130</p> <p>Moving Target Tracking</p> <p>GS Acq</p> <p>Setup</p> <p>Exp. 1</p> <p>*** ORBITAL VISIBILITY OVERRUN = 210</p> <p>Occultation</p> <p>Home</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p>										
	<p>The diagram illustrates the timing of various activities during Orbit 1. It shows a sequence of events: GS Acq, Setup, and the start of the main observation period (dotted pattern). An occultation event occurs at approximately 2900 seconds, followed by a 210-second orbital visibility overrun (red bar). The observation period ends with a Home event at approximately 3300 seconds. The x-axis represents time in seconds, ranging from 0 to 6000.</p>										

Proposal 15424 - Visit 02 - An intensive ultraviolet imaging campaign for Europa's plumes

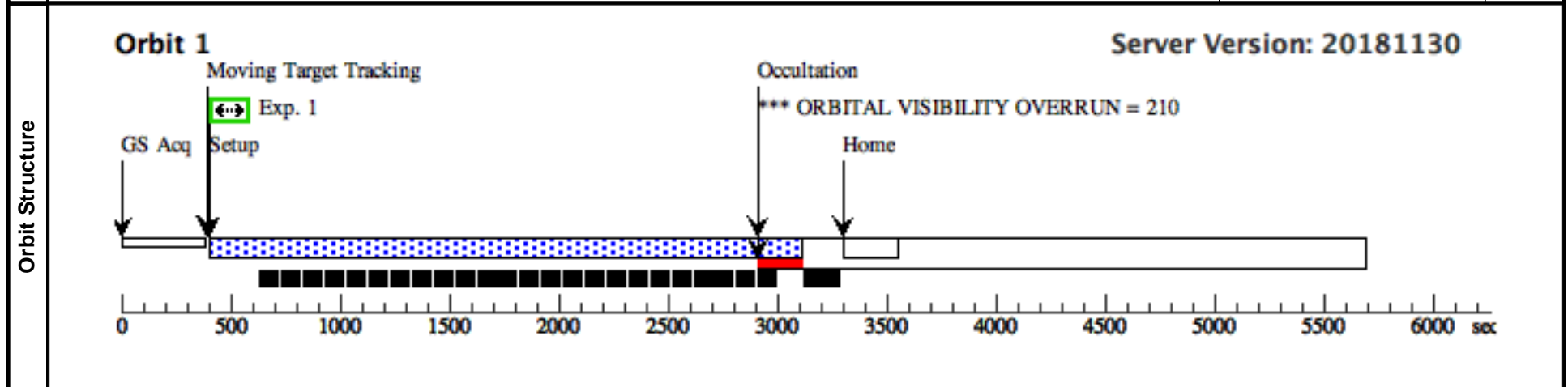
Wed Jun 12 19:04:14 GMT 2019

Visit	Proposal 15424, Visit 02, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 275.0D TO 285.0 D; BETWEEN 08-APR-2018:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 10-JUN-2018:00:00:00
	(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 02)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 02)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Exposure 1 (Visit 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-TRANSIT-OPP-2	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=17.2,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=28-APR-2018:20:14:15,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-2 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) EUROPA-TRAN SIT-OPP-2	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2560 Secs (2560 Secs) [==>]



Proposal 15424 - Visit 03 - An intensive ultraviolet imaging campaign for Europa's plumes

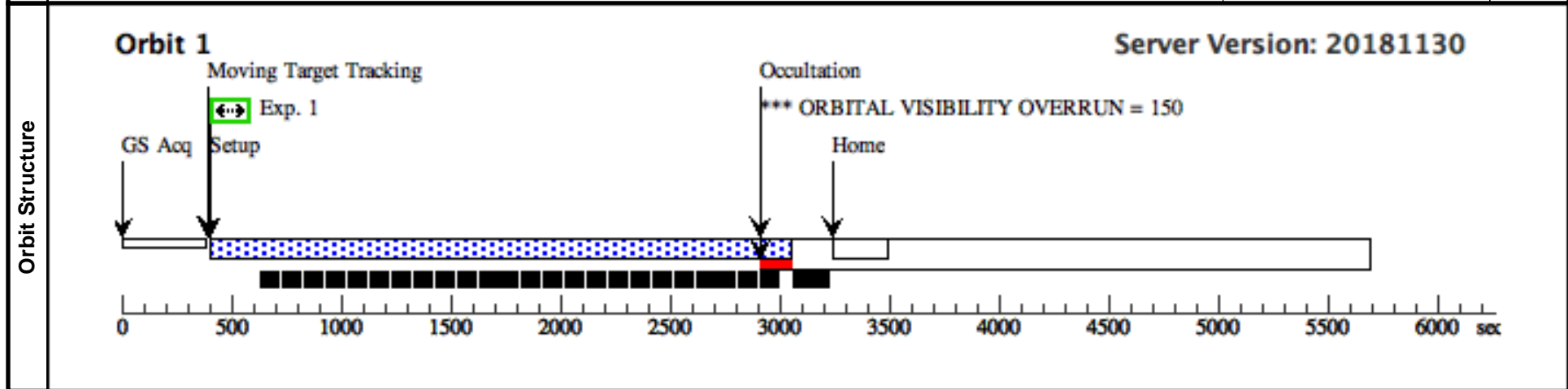
Wed Jun 12 19:04:14 GMT 2019

Visit	<p>Proposal 15424, Visit 03, failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/FUV-MAMA</p> <p>Special Requirements: SCHED 100%; ORIENT 262D TO 272 D; BETWEEN 08-APR-2018:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 10-JUN-2018:00:00:00</p>
	<p>(Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 1 (Visit 03)) Warning (Form): Sensitive exposures should have an ETC run number provided.</p>

Diagnosics	<p>(Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 1 (Visit 03)) Warning (Form): Sensitive exposures should have an ETC run number provided.</p>
	<p>(Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 1 (Visit 03)) Warning (Form): Sensitive exposures should have an ETC run number provided.</p>

Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>EUROPA-TRANSIT-OPP-3</td> <td>STD=JUPITER</td> <td>STD=EUROPA</td> <td>TYPE=POS_ANGLE,RAD=8.7,ANG=-4.2,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=05-MAY-2018:22:16:30,EpochTimeScale=UTC</td> <td>TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-3 BY JUPITER FROM EARTH</td> <td>EARTH</td> </tr> </tbody> </table> <p>Comments: Description=Europa</p>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(3)	EUROPA-TRANSIT-OPP-3	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=-4.2,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=05-MAY-2018:22:16:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-3 BY JUPITER FROM EARTH	EARTH
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center								
(3)	EUROPA-TRANSIT-OPP-3	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=-4.2,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=05-MAY-2018:22:16:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-3 BY JUPITER FROM EARTH	EARTH									
<p>(3) EUROPA-TRANSIT-OPP-3</p> <p>STD=JUPITER</p> <p>STD=EUROPA</p> <p>TYPE=POS_ANGLE,RAD=8.7,ANG=-4.2,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=05-MAY-2018:22:16:30,EpochTimeScale=UTC</p> <p>TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-3 BY JUPITER FROM EARTH</p> <p>EARTH</p>															

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(3) EUROPA-TRAN SIT-OPP-3</td> <td>STIS/FUV-MAMA, TIME-TAG, F25SRF2</td> <td>MIRROR</td> <td>BUFFER-TIME=99</td> <td></td> <td></td> <td>2500 Secs (2500 Secs)</td> <td></td> </tr> </tbody> </table> <p>[=>]</p>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(3) EUROPA-TRAN SIT-OPP-3	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2500 Secs (2500 Secs)	
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit											
1		(3) EUROPA-TRAN SIT-OPP-3	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2500 Secs (2500 Secs)													
<p>(3) EUROPA-TRAN</p> <p>SIT-OPP-3</p> <p>STIS/FUV-MAMA, TIME-TAG, F25SRF2</p> <p>MIRROR</p> <p>BUFFER-TIME=99</p> <p>2500 Secs (2500 Secs)</p> <p>[=>]</p> <p>[1]</p>																					



Proposal 15424 - Repeat of visit 03 (53) - An intensive ultraviolet imaging campaign for Europa's plumes

Wed Jun 12 19:04:14 GMT 2019

Visit	<p>Proposal 15424, Repeat of visit 03 (53), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/FUV-MAMA</p> <p>Special Requirements: SCHED 100%; ORIENT 267D TO 277 D; BETWEEN 01-MAY-2019:00:00:00 AND 31-JUL-2019:00:00:00</p> <p><i>Comments: HOPR repeat of failed visit 03</i></p> <p><i>Preferred date: 24-MAY-2019</i></p>																												
	<p>(Repeat of visit 03 (53)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 1 (Repeat of visit 03 (53))) Warning (Form): Sensitive exposures should have an ETC run number provided.</p>																												
Diagnosics																													
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(53)</td> <td>EUROPA-TRANSIT-OPP-3-COPY</td> <td>STD=JUPITER</td> <td>STD=EUROPA</td> <td>TYPE=POS_ANGLE,RAD=8.7,ANG=9.2,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=24-MAY-2019:20:03:00,EpochTimeScale=UTC</td> <td>TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-3-COPY BY JUPITER FROM EARTH</td> <td>EARTH</td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(53)	EUROPA-TRANSIT-OPP-3-COPY	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=9.2,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=24-MAY-2019:20:03:00,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-3-COPY BY JUPITER FROM EARTH	EARTH														
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center																						
(53)	EUROPA-TRANSIT-OPP-3-COPY	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=9.2,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=24-MAY-2019:20:03:00,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-3-COPY BY JUPITER FROM EARTH	EARTH																							
<p><i>Comments: Preferred date: 24-MAY-2019</i></p> <p><i>Description=Europa</i></p>																													
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(53) EUROPA-TRANSIT-OPP-3-COPY</td> <td>STIS/FUV-MAMA, TIME-TAG, F25SRF2</td> <td>MIRROR</td> <td>BUFFER-TIME=99</td> <td></td> <td></td> <td>2500 Secs (2500 Secs)</td> <td></td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(53) EUROPA-TRANSIT-OPP-3-COPY	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2500 Secs (2500 Secs)									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																			
1		(53) EUROPA-TRANSIT-OPP-3-COPY	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2500 Secs (2500 Secs)																					
								[=>]	[1]																				
Orbit Structure	<p>Orbit 1 Server Version: 20181130</p> <p>Moving Target Tracking</p> <p>Exp. 1</p> <p>GS Acq Setup</p> <p>*** ORBITAL VISIBILITY OVERRUN = 150</p> <p>Occultation Home</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p>																												

Proposal 15424 - Visit 04 - An intensive ultraviolet imaging campaign for Europa's plumes

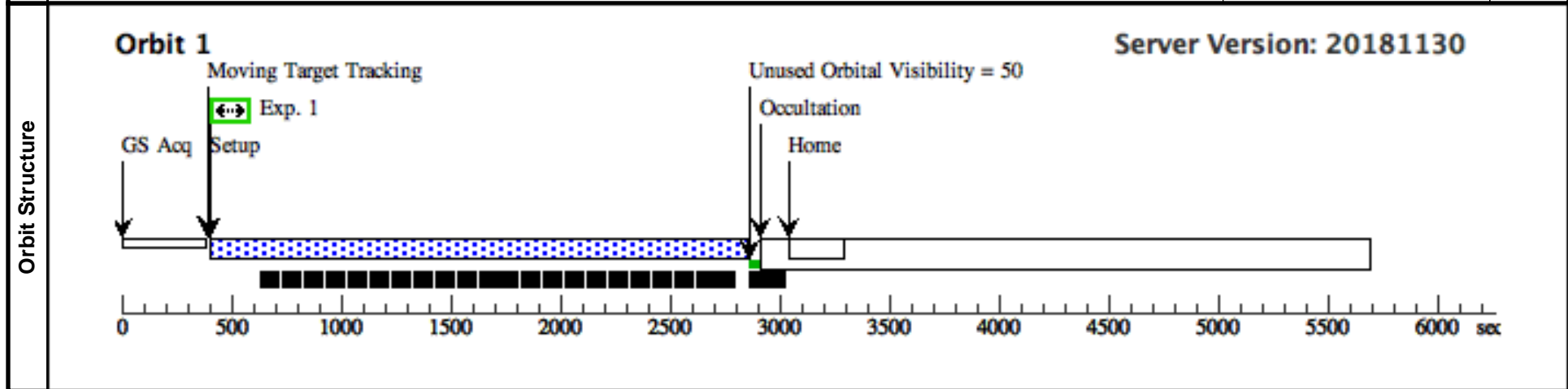
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 04, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 289D TO 299 D; BETWEEN 08-APR-2018:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 10-JUN-2018:00:00:00
	(Exposure 1 (Visit 04)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnostics	(Exposure 1 (Visit 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-TRANSIT-OPP-4	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=31.2,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=11-APR-2018:03:48:20,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-4 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) EUROPA-TRAN SIT-OPP-4	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2300 Secs (2300 Secs) [=>]



Proposal 15424 - Visit 05 - An intensive ultraviolet imaging campaign for Europa's plumes

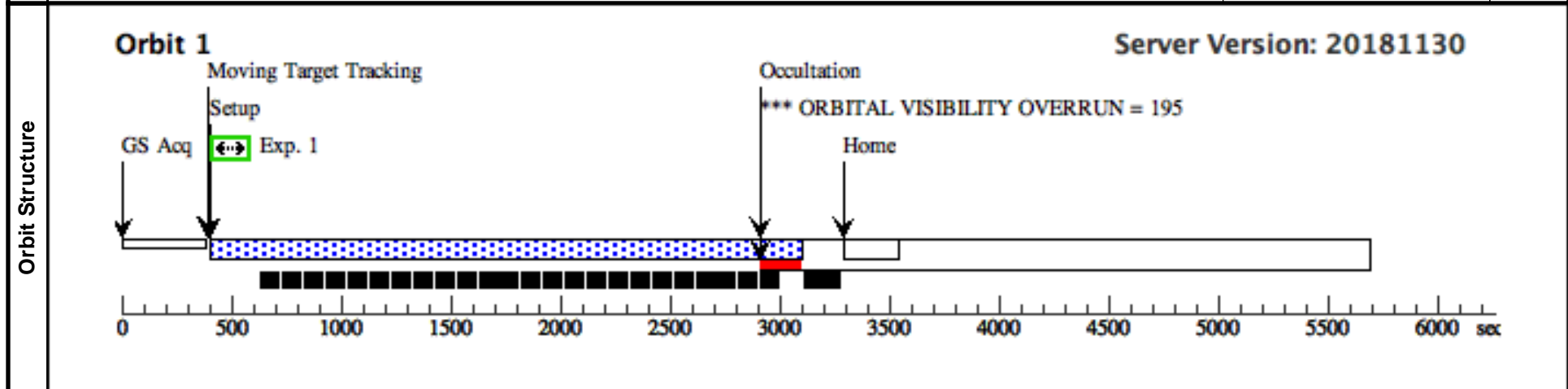
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 05, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 110.0D TO 120.0 D; BETWEEN 08-APR-2018:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 10-JUN-2018:00:00:00
	(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 05)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 05)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 05)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(5)	EUROPA-TRANSIT-OPP-5	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=27.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=16-MAY-2018:14:06:15,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-5 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) EUROPA-TRAN SIT-OPP-5	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2545 Secs (2545 Secs)
[==>]										
[1]										



Proposal 15424 - Visit 06 - An intensive ultraviolet imaging campaign for Europa's plumes

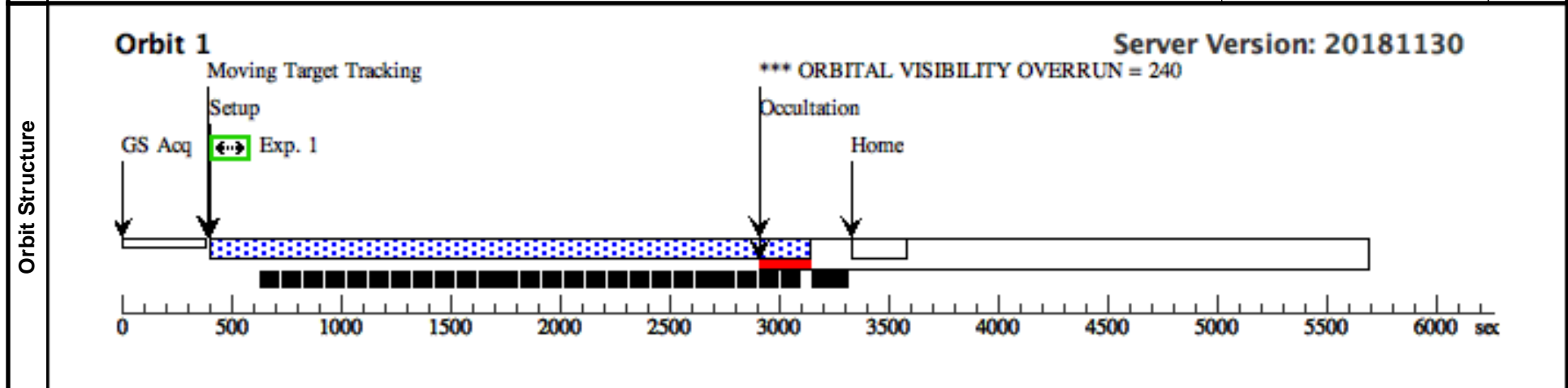
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 06, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 86.0D TO 96.0 D; BETWEEN 08-APR-2018:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 10-JUN-2018:00:00:00
	(Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 06)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 06)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 06)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>EUROPA-TRANSIT-OPP-6</td> <td>STD=JUPITER</td> <td>STD=EUROPA</td> <td>TYPE=POS_ANGLE,RAD=8.2,ANG=3.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=23-MAY-2018:16:08:30,EpochTimeScale=UTC</td> <td>TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-6 BY JUPITER FROM EARTH</td> <td>EARTH</td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(6)	EUROPA-TRANSIT-OPP-6	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=3.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=23-MAY-2018:16:08:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-6 BY JUPITER FROM EARTH	EARTH
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center								
(6)	EUROPA-TRANSIT-OPP-6	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=3.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=23-MAY-2018:16:08:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-6 BY JUPITER FROM EARTH	EARTH									
Comments: Description=Europa															

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(6) EUROPA-TRAN SIT-OPP-6</td> <td>STIS/FUV-MAMA, TIME-TAG, F25SRF2</td> <td>MIRROR</td> <td>BUFFER-TIME=99</td> <td></td> <td></td> <td>2590 Secs (2590 Secs)</td> <td></td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(6) EUROPA-TRAN SIT-OPP-6	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2590 Secs (2590 Secs)	
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit											
1		(6) EUROPA-TRAN SIT-OPP-6	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2590 Secs (2590 Secs)													
[==>]																					



Proposal 15424 - Visit 07 - An intensive ultraviolet imaging campaign for Europa's plumes

Wed Jun 12 19:04:15 GMT 2019

Visit	<p>Proposal 15424, Visit 07, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/FUV-MAMA</p> <p>Special Requirements: SCHED 100%; ORIENT 257D TO 267 D; BETWEEN 01-MAY-2019:00:00:00 AND 31-JUL-2019:00:00:00</p> <p><i>Comments: Preferred date: 4-JUN-2019</i></p>									
	<p>(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 1 (Visit 07)) Warning (Form): Sensitive exposures should have an ETC run number provided.</p>									
Diagnosics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(7)	EUROPA-TRANSIT-OPP-7	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=-0.8,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=04-JUN-2019:10:16:45,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-7 BY JUPITER FROM EARTH	EARTH			
<p><i>Comments: Preferred date: 4-JUN-2019</i></p> <p><i>Description=Europa</i></p>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) EUROPA-TRAN SIT-OPP-7	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2430 Secs (2430 Secs) [==>]
Orbit Structure	<p>Orbit 1 Server Version: 20181130</p> <p>Moving Target Tracking</p> <p>GS Acq</p> <p>Setup</p> <p>Exp. 1</p> <p>Occultation</p> <p>Home</p> <p>*** ORBITAL VISIBILITY OVERRUN = 80</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p>									

Proposal 15424 - Visit 08 - An intensive ultraviolet imaging campaign for Europa's plumes

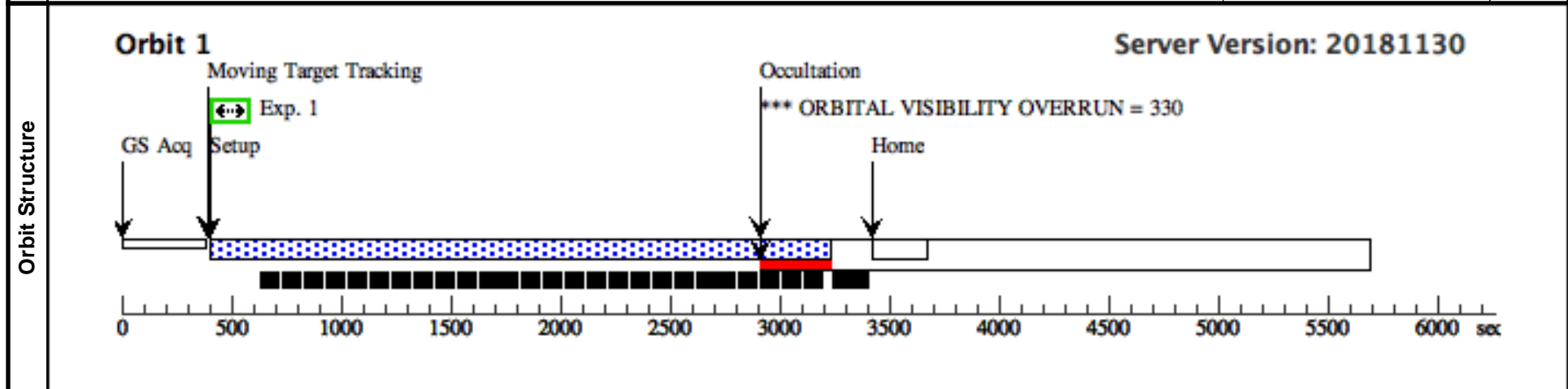
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 08, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 101.0 D TO 111.0 D; BETWEEN 08-APR-2018:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 10-JUN-2018:00:00:00
	(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 08)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 08)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Exposure 1 (Visit 08)) 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-TRANSIT-OPP-8	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=18.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=03-JUN-2018:07:57:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-OPP-8 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(8) EUROPA-TRAN SIT-OPP-8	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2680 Secs (2680 Secs)
[==>]										
[1]										

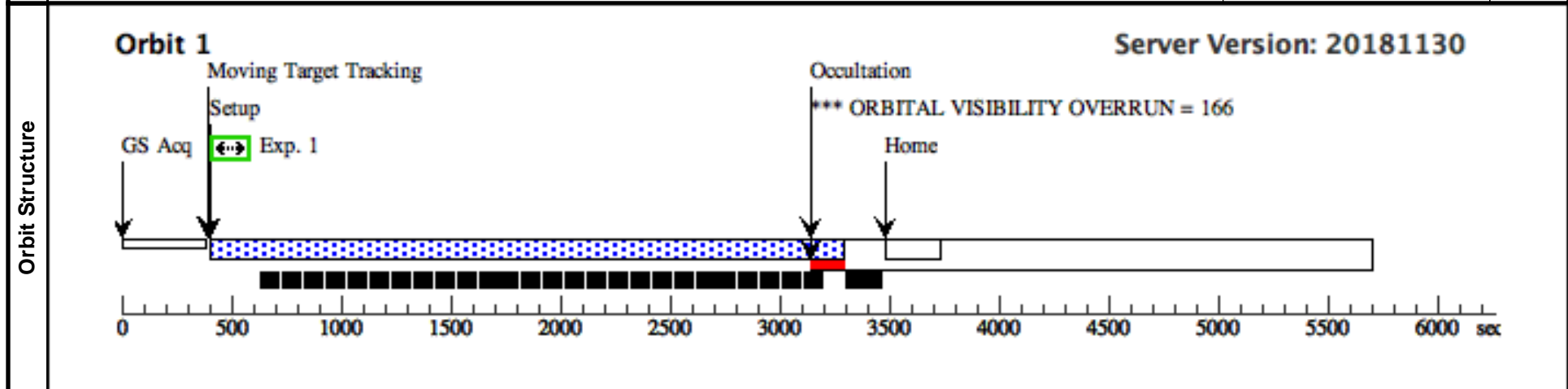


Proposal 15424 - Visit 09 - An intensive ultraviolet imaging campaign for Europa's plumes

Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 09, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: BETWEEN 04-JAN-2018:00:00:00 AND 07-JAN-2018:00:00:00
	(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 09)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>EUROPA-TRANSIT-9</td> <td>STD=JUPITER</td> <td>STD=EUROPA</td> <td>TYPE=POS_ANGLE,RAD=8.7,ANG=-24.1,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=2018.005:05:00:30,EpochTimeScale=UTC</td> <td>TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-9 BY JUPITER FROM EARTH</td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Description=Europa</i></p>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(9)	EUROPA-TRANSIT-9	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=-24.1,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=2018.005:05:00:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-9 BY JUPITER FROM EARTH	EARTH					
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center													
(9)	EUROPA-TRANSIT-9	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=-24.1,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=2018.005:05:00:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-9 BY JUPITER FROM EARTH	EARTH														
<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(9) EUROPA-TRAN SIT-9</td> <td>STIS/FUV-MAMA, TIME-TAG, F25SRF2</td> <td>MIRROR</td> <td>BUFFER-TIME=99</td> <td></td> <td></td> <td>2740 Secs (2740 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(9) EUROPA-TRAN SIT-9	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2740 Secs (2740 Secs) [==>]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit											
1		(9) EUROPA-TRAN SIT-9	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2740 Secs (2740 Secs) [==>]	[1]											



Proposal 15424 - Visit 10 - An intensive ultraviolet imaging campaign for Europa's plumes

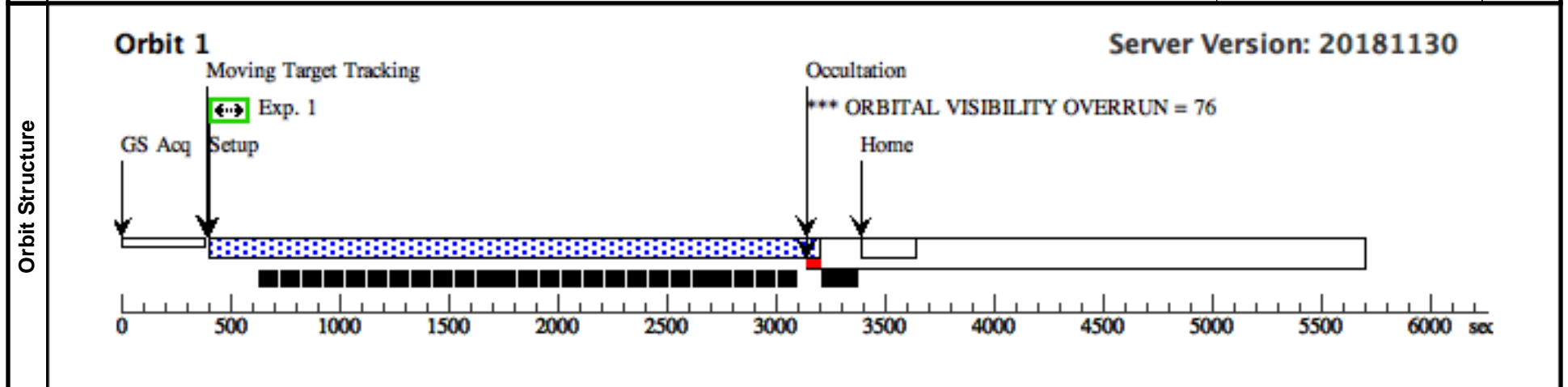
Wed Jun 12 19:04:15 GMT 2019

Visit	<p>Proposal 15424, Visit 10, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/FUV-MAMA</p> <p>Special Requirements: BETWEEN 05-FEB-2018:00:00:00 AND 12-FEB-2018:00:00:00</p>
--------------	---

Diagnostics	<p>(Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 1 (Visit 10)) Warning (Form): Sensitive exposures should have an ETC run number provided.</p>
--------------------	--

Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(10)</td> <td>EUROPA-TRANSIT-10</td> <td>STD=JUPITER</td> <td>STD=EUROPA</td> <td>TYPE=POS_ANGLE,RAD=8.7,ANG=-22.2,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=2018.040:18:25:30,EpochTimeScale=UTC</td> <td>TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-10 BY JUPITER FROM EARTH</td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Description=Europa</i></p>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(10)	EUROPA-TRANSIT-10	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=-22.2,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=2018.040:18:25:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-10 BY JUPITER FROM EARTH	EARTH
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center									
(10)	EUROPA-TRANSIT-10	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=-22.2,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=2018.040:18:25:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-10 BY JUPITER FROM EARTH	EARTH									

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(10) EUROPA-TRANSIT-10</td> <td>STIS/FUV-MAMA, TIME-TAG, F25SRF2</td> <td>MIRROR</td> <td>BUFFER-TIME=99</td> <td></td> <td></td> <td>2650 Secs (2650 Secs)</td> <td></td> </tr> </tbody> </table> <p>[==>]</p> <p>[1]</p>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(10) EUROPA-TRANSIT-10	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2650 Secs (2650 Secs)	
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit												
1		(10) EUROPA-TRANSIT-10	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2650 Secs (2650 Secs)													



Proposal 15424 - Visit 11 - An intensive ultraviolet imaging campaign for Europa's plumes

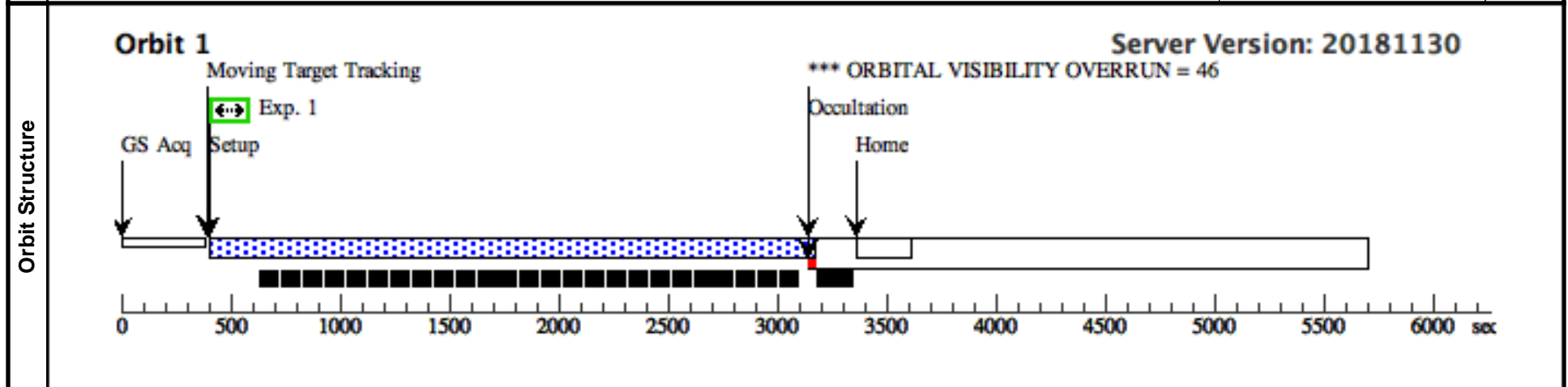
Wed Jun 12 19:04:15 GMT 2019

Visit	<p>Proposal 15424, Visit 11, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/FUV-MAMA</p> <p>Special Requirements: SCHED 30%: BETWEEN 01-FEB-2018:00:00:00 AND 07-FEB-2018:00:00:00</p>
	<p>(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 1 (Visit 11)) Warning (Form): Sensitive exposures should have an ETC run number provided.</p>

Diagnosics	<p>(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 1 (Visit 11)) Warning (Form): Sensitive exposures should have an ETC run number provided.</p>

Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(11)</td> <td>EUROPA-TRANSIT-11</td> <td>STD=JUPITER</td> <td>STD=EUROPA</td> <td>TYPE=POS_ANGLE,RAD=8.7,ANG=23.9,REF=NORTH,R_RAD=-51.0,R_ANG=0,EPOCH=2018.033:16:16:00,EpochTimeScale=UTC</td> <td>TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-11 BY JUPITER FROM EARTH</td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Description=Europa</i></p>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(11)	EUROPA-TRANSIT-11	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=23.9,REF=NORTH,R_RAD=-51.0,R_ANG=0,EPOCH=2018.033:16:16:00,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-11 BY JUPITER FROM EARTH	EARTH
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center								
(11)	EUROPA-TRANSIT-11	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=23.9,REF=NORTH,R_RAD=-51.0,R_ANG=0,EPOCH=2018.033:16:16:00,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-11 BY JUPITER FROM EARTH	EARTH									

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(11) EUROPA-TRANSIT-11</td> <td>STIS/FUV-MAMA, TIME-TAG, F25SRF2</td> <td>MIRROR</td> <td>BUFFER-TIME=99</td> <td></td> <td></td> <td>2620 Secs (2620 Secs)</td> <td></td> </tr> </tbody> </table> <p>[=>]</p>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(11) EUROPA-TRANSIT-11	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2620 Secs (2620 Secs)	
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit											
1		(11) EUROPA-TRANSIT-11	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2620 Secs (2620 Secs)													



Proposal 15424 - Visit 12 - An intensive ultraviolet imaging campaign for Europa's plumes

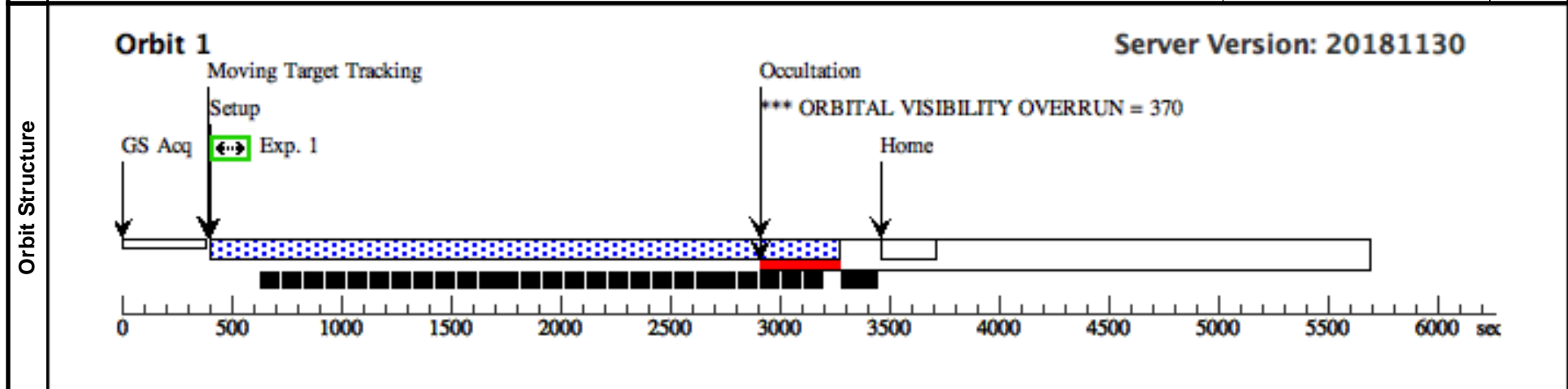
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 12, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 107.0D TO 117.0 D; BETWEEN 01-DEC-2017:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 01-NOV-2018:00:00:00
	(Visit 12) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 12)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 12) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 12)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Exposure 1 (Visit 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
	(12)	EUROPA-TRANSIT-12	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=-24.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=19-JUL-2018:11:38:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-12 BY JUPITER FROM EARTH	EARTH
Comments: Description=Europa							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(12) EUROPA-TRANSIT-12	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2720 Secs (2720 Secs)
[==>]										
[1]										



Proposal 15424 - Visit 13 - An intensive ultraviolet imaging campaign for Europa's plumes

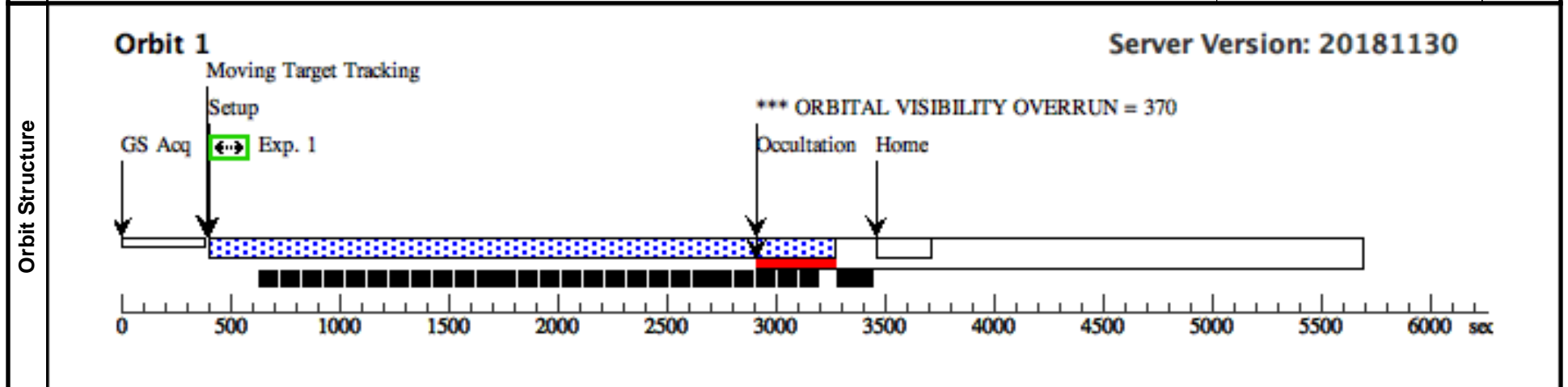
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 13, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; BETWEEN 2018.050:00:00:00 AND 2018.057:00:00:00
	(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 13)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 13)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 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)	EUROPA-TRANSIT-13	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=-21.7,REF=NORTH,R_RAD=-51.0,R_ANG=0,EPOCH=2018.051:10:17:00,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-13 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(13) EUROPA-TRANSIT-13	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2720 Secs (2720 Secs)
[==>]										
[1]										



Proposal 15424 - Visit 14 - An intensive ultraviolet imaging campaign for Europa's plumes

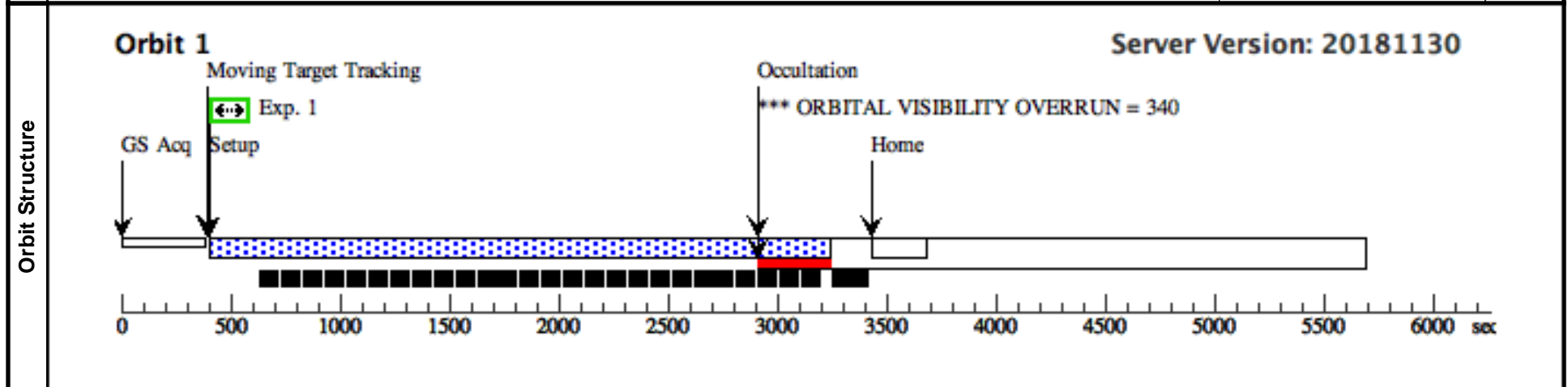
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 14, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; BETWEEN 2018.057:00:00:00 AND 2018.064:21:00:00
	(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 14)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 14)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 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
	(14)	EUROPA-TRANSIT-14	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=21.2,REF=NORTH,R_RAD=-51.0,R_ANG=0,EPOCH=2018.062:02:15:00,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-14 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(14) EUROPA-TRANSIT-14	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2690 Secs (2690 Secs)
[==>]										
[1]										



Proposal 15424 - Visit 15 - An intensive ultraviolet imaging campaign for Europa's plumes

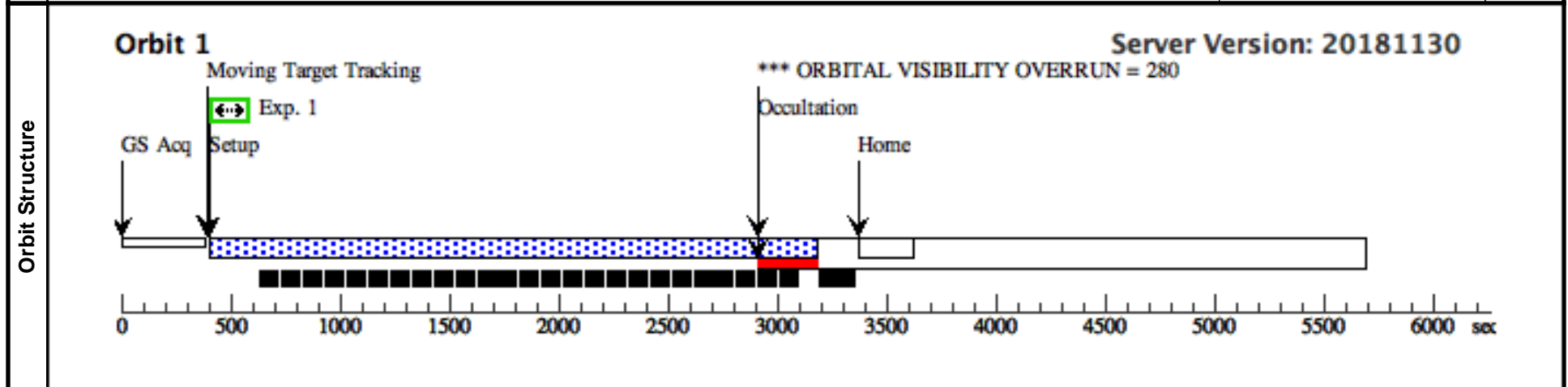
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 15, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; BETWEEN 2018.064:00:00:00 AND 2018.071:21:00:00
	(Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 15)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 15)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 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
	(15)	EUROPA-TRANSIT-15	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=21.2,REF=NORTH,R_RAD=-51.0,R_ANG=0,EPOCH=2018.069:04:18:00,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-15 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(15) EUROPA-TRANSIT-15	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2630 Secs (2630 Secs)
[==>]										
[1]										



Proposal 15424 - Visit 16 - An intensive ultraviolet imaging campaign for Europa's plumes

Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 16, scheduled Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 97.0D TO 107.0 D; BETWEEN 01-MAY-2019:00:00:00 AND 31-JUL-2019:00:00:00 <i>Comments: Preferred date: 15-JUN-2019</i>									
	(Visit 16) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 16)) Warning (Form): Sensitive exposures should have an ETC run number provided.									
Diagnostics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(16)	EUROPA-TRANSIT-16	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=14.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=15-JUN-2019:02:03:00,EpochTimeScale=UTC	SEP OF EUROPA JUPITER FROM EARTH LT -5", TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, NOT OCC OF EUROPA-TRANSIT-16 BY JUPITER FROM EARTH	EARTH			
<i>Comments: Preferred date: 15-JUN-2019</i> Description=Europa										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(16) EUROPA-TRANSIT-16	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2500 Secs (2500 Secs) [==>]
Orbit Structure	Orbit 1 Server Version: 20181130									
	<p> Moving Target Tracking GS Acq Setup Exp. 1 Occultation Home *** ORBITAL VISIBILITY OVERRUN = 150 </p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p>									

Proposal 15424 - Visit 17 - An intensive ultraviolet imaging campaign for Europa's plumes

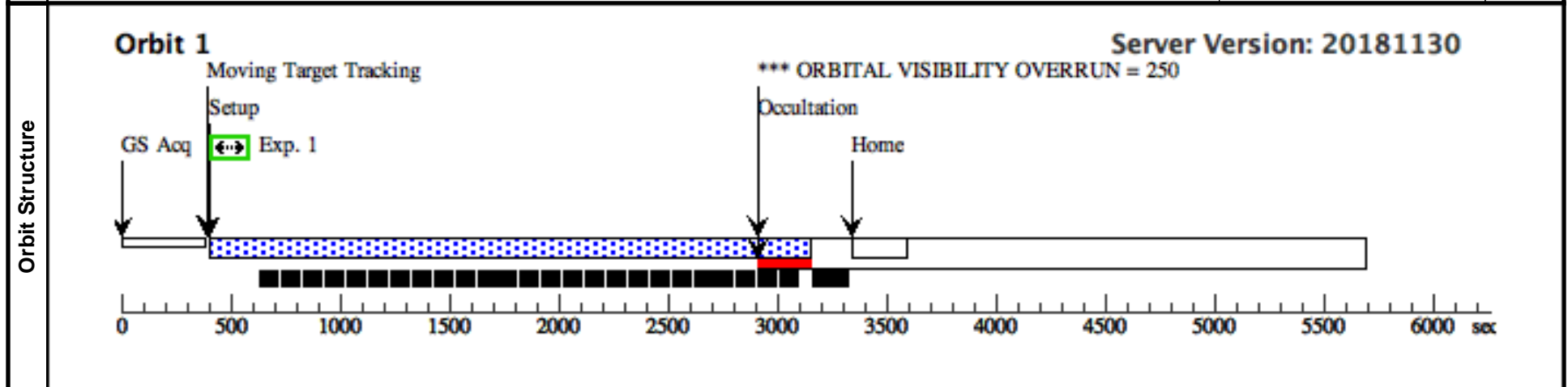
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 17, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 278.7D TO 288.7 D; BETWEEN 2018.077:00:00:00 AND 2018.081:00:00:00
--------------	--

Diagnostics	(Visit 17) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 17)) Warning (Form): Sensitive exposures should have an ETC run number provided.
--------------------	---

Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(17)</td> <td>EUROPA-TRANSIT-17</td> <td>STD=JUPITER</td> <td>STD=EUROPA</td> <td>TYPE=POS_ANGLE,RAD=8.7,ANG=-20.9,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=2018.079:20:08:00,EpochTimeScale=UTC</td> <td>TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-17 BY JUPITER FROM EARTH</td> <td>EARTH</td> </tr> </tbody> </table> <p>Comments: Description=Europa</p>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(17)	EUROPA-TRANSIT-17	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=-20.9,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=2018.079:20:08:00,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-17 BY JUPITER FROM EARTH	EARTH
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center									
(17)	EUROPA-TRANSIT-17	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=-20.9,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=2018.079:20:08:00,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-17 BY JUPITER FROM EARTH	EARTH									

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(17) EUROPA-TRANSIT-17</td> <td>STIS/FUV-MAMA, TIME-TAG, F25SRF2</td> <td>MIRROR</td> <td>BUFFER-TIME=99</td> <td></td> <td></td> <td>2600 Secs (2600 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(17) EUROPA-TRANSIT-17	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2600 Secs (2600 Secs) [==>]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit												
1		(17) EUROPA-TRANSIT-17	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2600 Secs (2600 Secs) [==>]	[1]												



Proposal 15424 - Visit 18 - An intensive ultraviolet imaging campaign for Europa's plumes

Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 18, implementation Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 79.418D TO 89.418 D; BETWEEN 01-MAY-2019:00:00:00 AND 31-JUL-2019:00:00:00 <i>Comments: Preferred date: 22-JUN-2019</i>									
	(Visit 18) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 18)) Warning (Form): Sensitive exposures should have an ETC run number provided.									
Diagnostics										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(18)	EUROPA-TRANSIT-18	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=357.018,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=22-JUN-2019:04:04:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-18 BY JUPITER FROM EARTH	EARTH			
<i>Comments: Preferred date: 22-JUN-2019</i> Description=Europa										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(18) EUROPA-TRANSIT-18	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2680 Secs (2680 Secs) [==>]
Orbit Structure	Orbit 1 Server Version: 20181130									
	<p>Moving Target Tracking</p> <p>GS Acq</p> <p>Setup</p> <p>Exp. 1</p> <p>*** ORBITAL VISIBILITY OVERRUN = 330</p> <p>Occultation Home</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p>									

Proposal 15424 - Visit 19 - An intensive ultraviolet imaging campaign for Europa's plumes

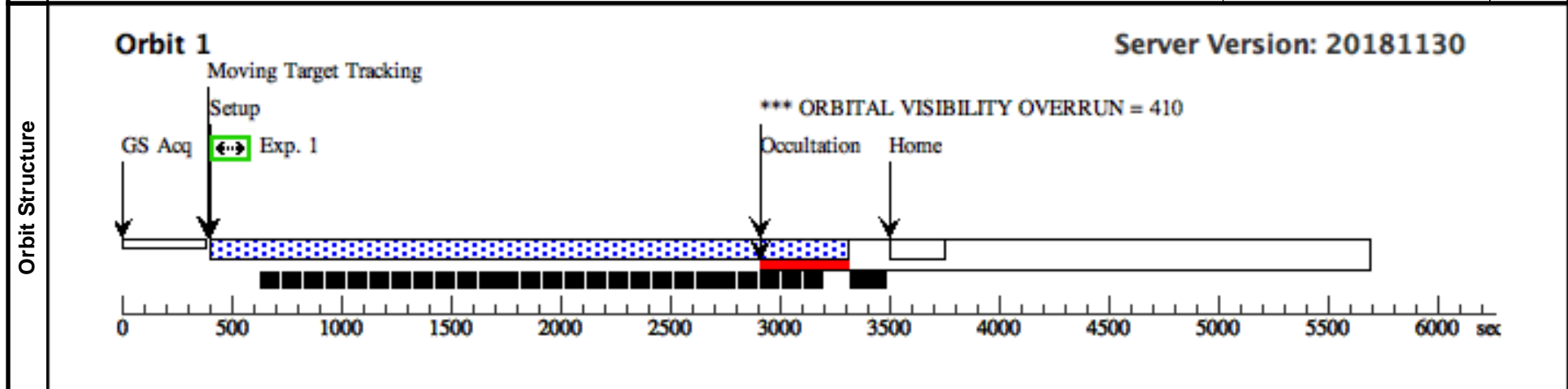
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 19, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 103.4D TO 113.4 D; BETWEEN 01-DEC-2017:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 01-NOV-2018:00:00:00
	(Visit 19) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 19)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 19) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 19)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Visit 19) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 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
	(19)	EUROPA-TRANSIT-19	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=21.0,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=24-JUN-2018:15:45:00,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-19 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(19) EUROPA-TRANSIT-19	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2760 Secs (2760 Secs)
[==>]										
[1]										



Proposal 15424 - Visit 20 - An intensive ultraviolet imaging campaign for Europa's plumes

Wed Jun 12 19:04:15 GMT 2019

Visit	<p>Proposal 15424, Visit 20, failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/FUV-MAMA</p> <p>Special Requirements: SCHED 100%; ORIENT 274D TO 284 D; BETWEEN 01-MAY-2019:00:00:00 AND 31-JUL-2019:00:00:00</p> <p><i>Comments: Preferred dates:</i> <i>1st choice: 2-JUL-2019</i> <i>2nd choice: 14-MAY-2019</i></p> <p><i>Moved to 7-MAY-2019 to coordinate with Roth program</i></p>																																			
	<p>(Visit 20) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 1 (Visit 20)) Warning (Form): Sensitive exposures should have an ETC run number provided.</p>																																			
Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(20)</td> <td>EUROPA-TRANSIT-20</td> <td>STD=JUPITER</td> <td>STD=EUROPA</td> <td>TYPE=POS_ANGLE,RAD=8.7,ANG=16.2,REF=NORTH,R_RAD=-51.0,R_ANG=0,0,EPOCH=07-MAY-2019:02:12:43,EpochTimeScale=UTC</td> <td>TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-20 BY JUPITER FROM EARTH</td> <td>EARTH</td> </tr> </tbody> </table> <p><i>Comments: Preferred dates:</i> <i>1st choice: 2-JUL-2019</i> <i>2nd choice: 14-MAY-2019</i></p> <p><i>Moved to 7-MAY-2019 to coordinate with Roth program</i></p> <p><i>Description=Europa</i></p>							#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(20)	EUROPA-TRANSIT-20	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=16.2,REF=NORTH,R_RAD=-51.0,R_ANG=0,0,EPOCH=07-MAY-2019:02:12:43,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-20 BY JUPITER FROM EARTH	EARTH															
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center																													
(20)	EUROPA-TRANSIT-20	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.7,ANG=16.2,REF=NORTH,R_RAD=-51.0,R_ANG=0,0,EPOCH=07-MAY-2019:02:12:43,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-20 BY JUPITER FROM EARTH	EARTH																														
<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(20) EUROPA-TRA NSIT-20</td> <td>STIS/FUV-MAMA, TIME-TAG, F25SRF2</td> <td>MIRROR</td> <td>BUFFER-TIME=99</td> <td></td> <td></td> <td>2680 Secs (2680 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> </tbody> </table>							#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(20) EUROPA-TRA NSIT-20	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2680 Secs (2680 Secs)										[==>]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																											
1		(20) EUROPA-TRA NSIT-20	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2680 Secs (2680 Secs)																												
								[==>]	[1]																											
Exposures																																				
Orbit Structure	<p>Orbit 1 Server Version: 20181130</p> <p>The diagram illustrates the timing of various activities during Orbit 1. It starts with GS Acq at approximately 100 seconds. Moving Target Tracking begins at 400 seconds and continues until 3000 seconds. An exposure (Exp. 1) is scheduled at 450 seconds. An occultation event occurs between 2900 and 3300 seconds, marked with a red bar and a warning of 330 seconds of orbital visibility overrun. The Home position is reached at 3500 seconds. The x-axis represents time in seconds, ranging from 0 to 6000.</p>																																			

Proposal 15424 - Repeat Visit 20 (70) - An intensive ultraviolet imaging campaign for Europa's plumes

Wed Jun 12 19:04:15 GMT 2019

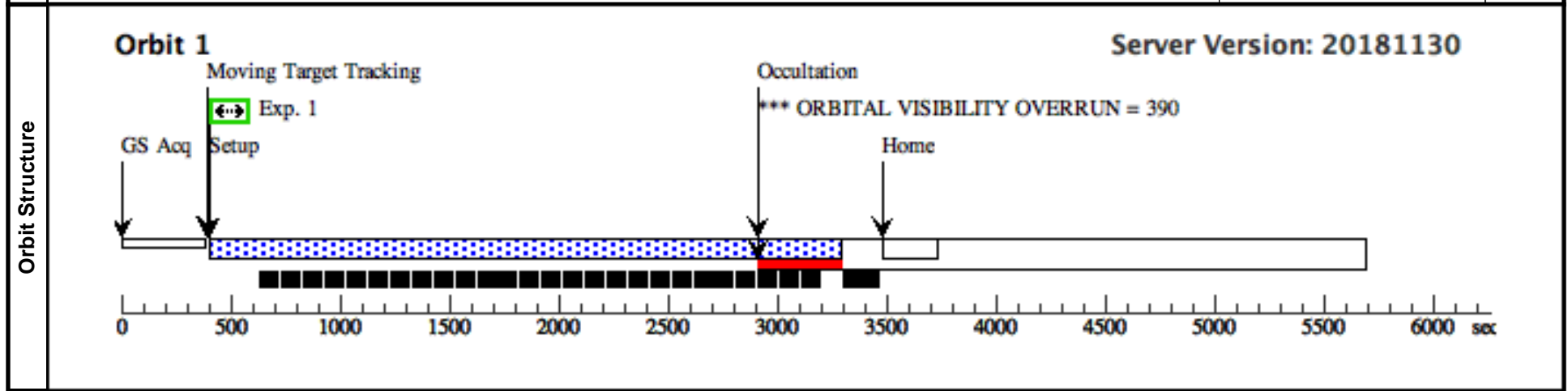
Visit
Proposal 15424, Repeat Visit 20 (70), implementation
Diagnostic Status: Warning
 Scientific Instruments: STIS/FUV-MAMA
 Special Requirements: SCHED 100%; ORIENT 92.0D TO 102.0 D; BETWEEN 01-MAY-2019:00:00:00 AND 31-JUL-2019:00:00:00
 Comments: Preferred dates:
 1st choice: 2-JUL-2019
 2nd choice: 14-MAY-2019
 Moved to 7-MAY-2019 to coordinate with Roth program

Diagnostics
 (Repeat Visit 20 (70)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
 (Exposure 1 (Repeat Visit 20 (70))) Warning (Form): Sensitive exposures should have an ETC run number provided.

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(70)	EUROPA-TRANSIT-20-COPY	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=-9.6,REF=NORTH,R_RAD=-51.0,R_ANG=0,0,EPOCH=02-JUL-2019:20:00:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-20-COPY BY JUPITER FROM EARTH	EARTH

Comments: Preferred dates:
 1st choice: 2-JUL-2019
 2nd choice: 14-MAY-2019
 Moved to 7-MAY-2019 to coordinate with Roth program
 Description=Europa

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(70) EUROPA-TRA NSIT-20-COPY	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2740 Secs (2740 Secs) [==>]	[1]



Proposal 15424 - Visit 21 - An intensive ultraviolet imaging campaign for Europa's plumes

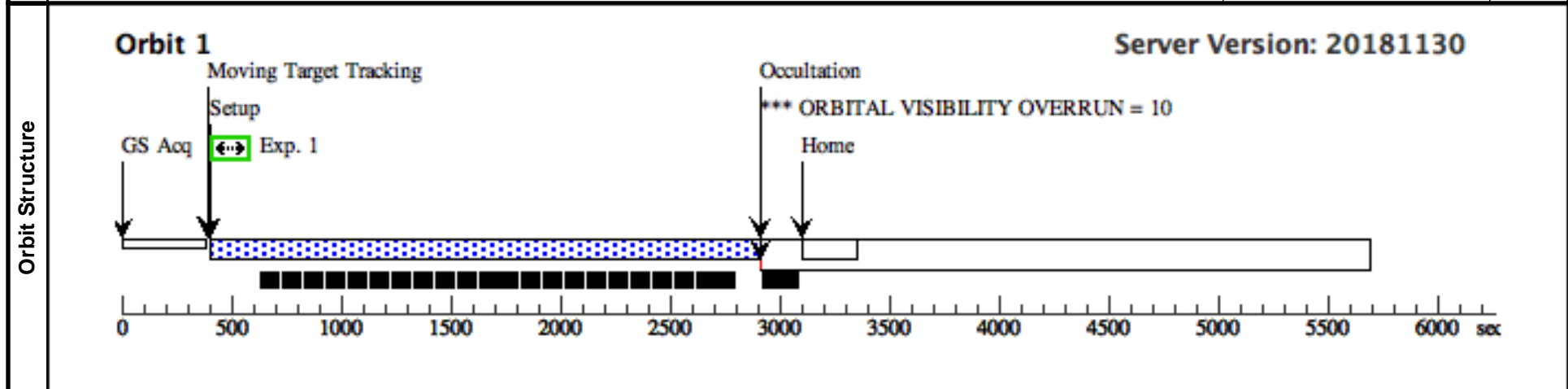
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 21, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 103.1D TO 113.1 D; BETWEEN 01-DEC-2017:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 01-NOV-2018:00:00:00
	(Visit 21) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 21)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 21) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 21)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Visit 21) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 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
	(21)	EUROPA-TRANSIT-21	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=-20.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=05-JUL-2018:07:34:30,EpochTimeScale=UTC	SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-21 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(21) EUROPA-TRANSIT-21	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2360 Secs (2360 Secs)
[==>]										
[1]										



Proposal 15424 - Visit 22 - An intensive ultraviolet imaging campaign for Europa's plumes

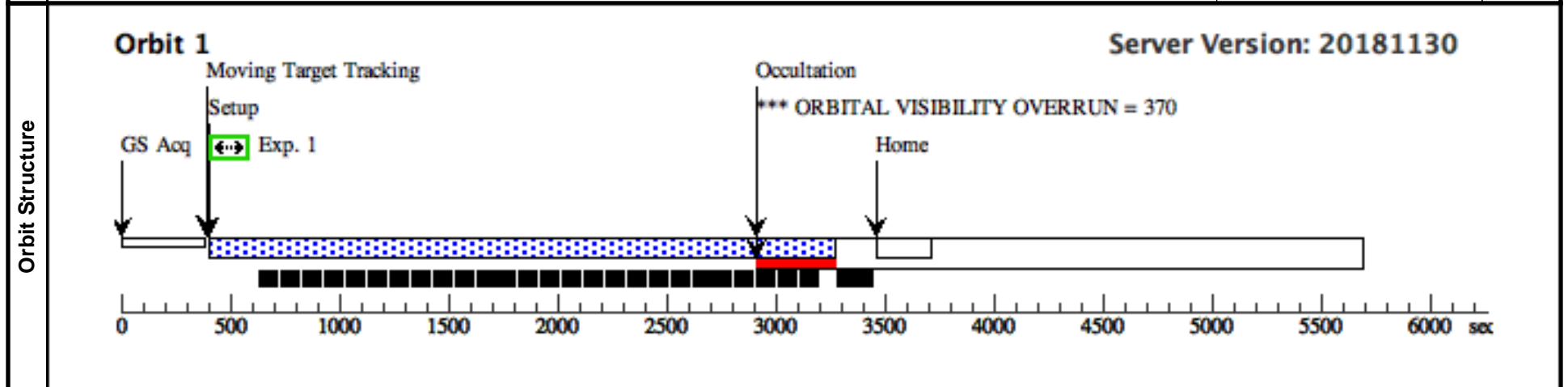
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 22, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 103.0D TO 113.0 D; BETWEEN 01-DEC-2017:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 01-NOV-2018:00:00:00
	(Visit 22) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 22)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 22) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 22)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Exposure 1 (Visit 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
	(22)	EUROPA-TRANSIT-22	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=-20.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=12-JUL-2018:09:36:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-22 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(22) EUROPA-TRANSIT-22	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2720 Secs (2720 Secs)
[==>]										
[1]										



Proposal 15424 - Visit 23 - An intensive ultraviolet imaging campaign for Europa's plumes

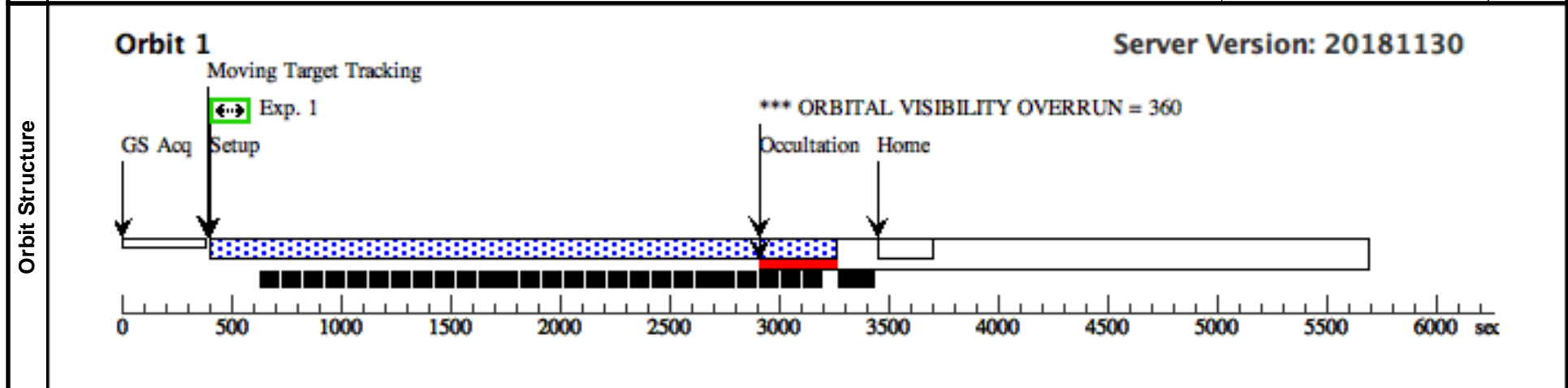
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 23, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 102.7D TO 112.7 D; BETWEEN 01-DEC-2017:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 01-NOV-2018:00:00:00
	(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 23)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 23)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Visit 23) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 23)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(23)</td> <td>EUROPA-TRANSIT-23</td> <td>STD=JUPITER</td> <td>STD=EUROPA</td> <td>TYPE=POS_ANGLE,RAD=8.2,ANG=-20.3,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=23-JUL-2018:01:26:45,EpochTimeScale=UTC</td> <td>TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-23 BY JUPITER FROM EARTH</td> <td>EARTH</td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(23)	EUROPA-TRANSIT-23	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=-20.3,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=23-JUL-2018:01:26:45,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-23 BY JUPITER FROM EARTH	EARTH
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center								
(23)	EUROPA-TRANSIT-23	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=-20.3,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=23-JUL-2018:01:26:45,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-23 BY JUPITER FROM EARTH	EARTH									
Comments: Description=Europa															

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(23) EUROPA-TRANSIT-23</td> <td>STIS/FUV-MAMA, TIME-TAG, F25SRF2</td> <td>MIRROR</td> <td>BUFFER-TIME=99</td> <td></td> <td></td> <td>2710 Secs (2710 Secs)</td> <td></td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(23) EUROPA-TRANSIT-23	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2710 Secs (2710 Secs)	
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit											
1		(23) EUROPA-TRANSIT-23	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2710 Secs (2710 Secs)													
[==>] [1]																					



Proposal 15424 - Visit 24 - An intensive ultraviolet imaging campaign for Europa's plumes

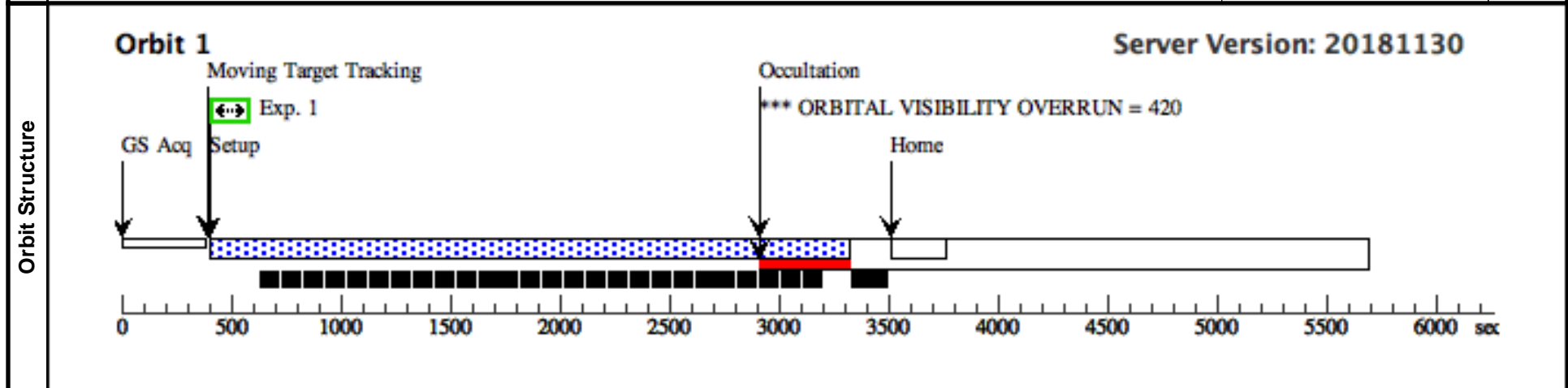
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 24, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 122D TO 132 D; BETWEEN 01-DEC-2017:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 01-NOV-2018:00:00:00
	(Visit 24) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 24)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 24) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 24)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Visit 24) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 24)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(24)</td> <td>EUROPA-TRANSIT-24</td> <td>STD=JUPITER</td> <td>STD=EUROPA</td> <td>TYPE=POS_ANGLE,RAD=8.2,ANG=-39.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=30-JUL-2018:03:27:30,EpochTimeScale=UTC</td> <td>TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-24 BY JUPITER FROM EARTH</td> <td>EARTH</td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(24)	EUROPA-TRANSIT-24	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=-39.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=30-JUL-2018:03:27:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-24 BY JUPITER FROM EARTH	EARTH
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center								
(24)	EUROPA-TRANSIT-24	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=-39.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=30-JUL-2018:03:27:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-24 BY JUPITER FROM EARTH	EARTH									
Comments: Description=Europa															

Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(24) EUROPA-TRANSIT-24</td> <td>STIS/FUV-MAMA, TIME-TAG, F25SRF2</td> <td>MIRROR</td> <td>BUFFER-TIME=99</td> <td></td> <td></td> <td>2770 Secs (2770 Secs)</td> <td></td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		(24) EUROPA-TRANSIT-24	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2770 Secs (2770 Secs)	
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit											
1		(24) EUROPA-TRANSIT-24	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99			2770 Secs (2770 Secs)													
[==>] [1]																					



Proposal 15424 - Visit 25 - An intensive ultraviolet imaging campaign for Europa's plumes

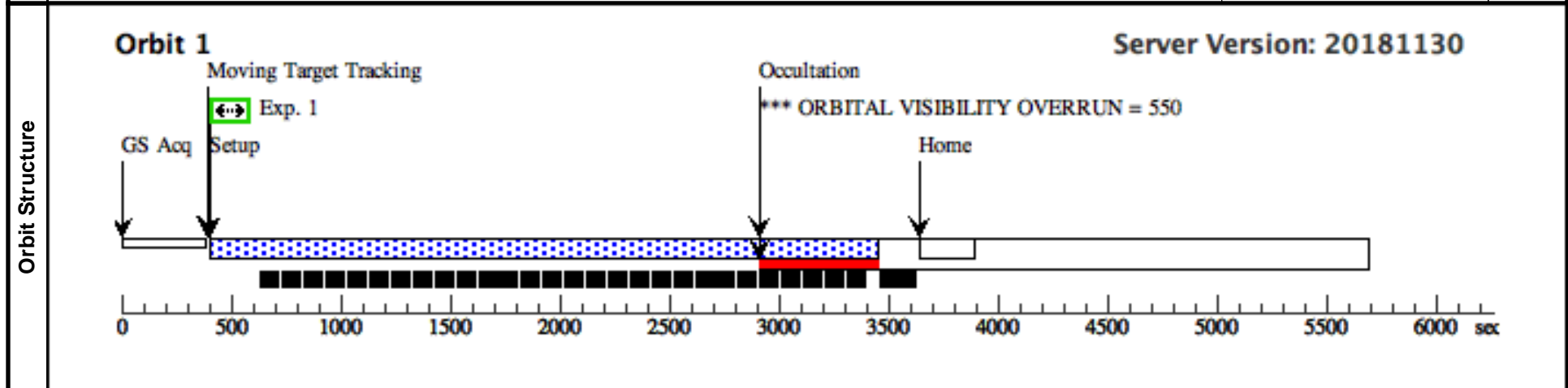
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 25, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 102.1D TO 112.1 D; BETWEEN 01-DEC-2017:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 01-NOV-2018:00:00:00
	(Visit 25) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 25)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 25) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 25)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Visit 25) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 25)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(25)	EUROPA-TRANSIT-25	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=19.7,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=09-AUG-2018:19:23:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-25 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(25) EUROPA-TRANSIT-25	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2900 Secs (2900 Secs)
									[==>]	[1]



Proposal 15424 - Visit 26 - An intensive ultraviolet imaging campaign for Europa's plumes

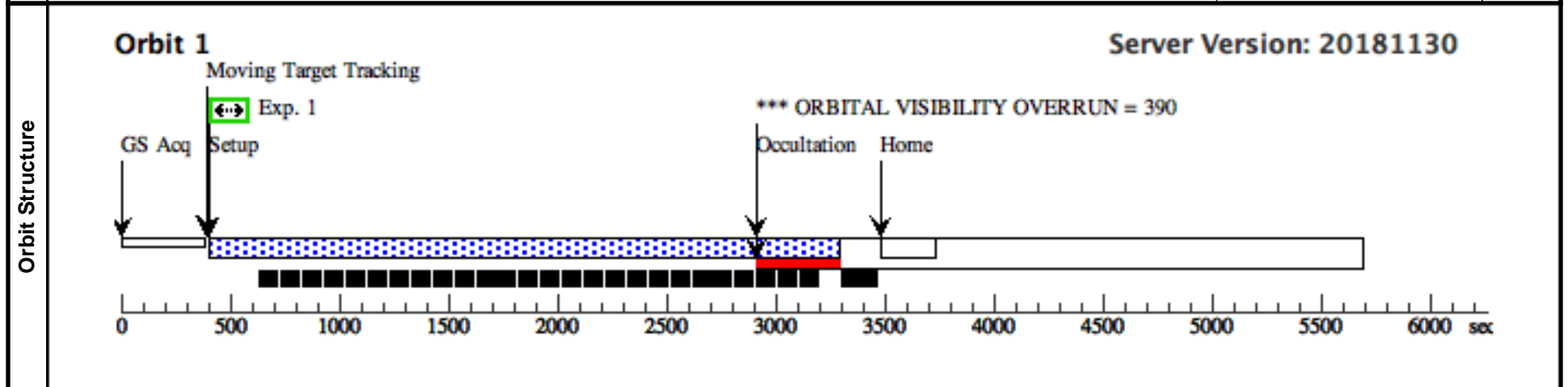
Wed Jun 12 19:04:15 GMT 2019

Visit	Proposal 15424, Visit 26, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 101.6D TO 111.6 D; BETWEEN 01-DEC-2017:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 01-NOV-2018:00:00:00
	(Visit 26) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 26)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 26) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 26)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Exposure 1 (Visit 26)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(26)	EUROPA-TRANSIT-26	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=19.2,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=20-AUG-2018:11:15:15,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-26 BY JUPITER FROM EARTH	EARTH
Comments: Description=Europa							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(26) EUROPA-TRA NSIT-26	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2740 Secs (2740 Secs)
[==>]										
[1]										



Proposal 15424 - Visit 27 - An intensive ultraviolet imaging campaign for Europa's plumes

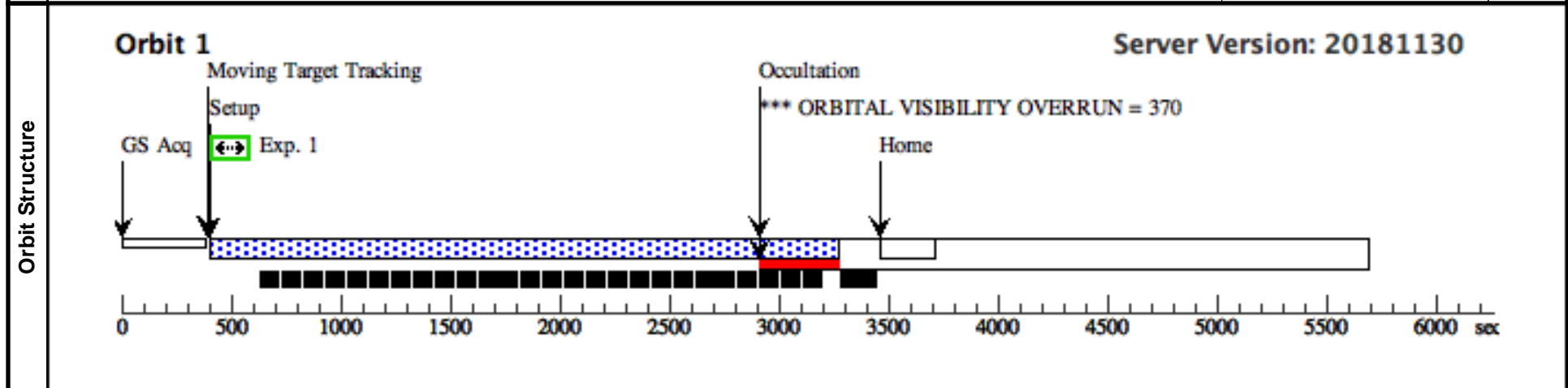
Wed Jun 12 19:04:16 GMT 2019

Visit	Proposal 15424, Visit 27, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 101.3D TO 111.3 D; BETWEEN 01-DEC-2017:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 01-NOV-2018:00:00:00
	(Visit 27) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 27)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 27) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 27)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Exposure 1 (Visit 27)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(27)	EUROPA-TRANSIT-27	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=18.9,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=27-AUG-2018:14:52:15,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-27 BY JUPITER FROM EARTH	EARTH
Comments: Description=Europa							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(27) EUROPA-TRANSIT-27	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2720 Secs (2720 Secs)
[==>]										
[1]										



Proposal 15424 - Visit 28 - An intensive ultraviolet imaging campaign for Europa's plumes

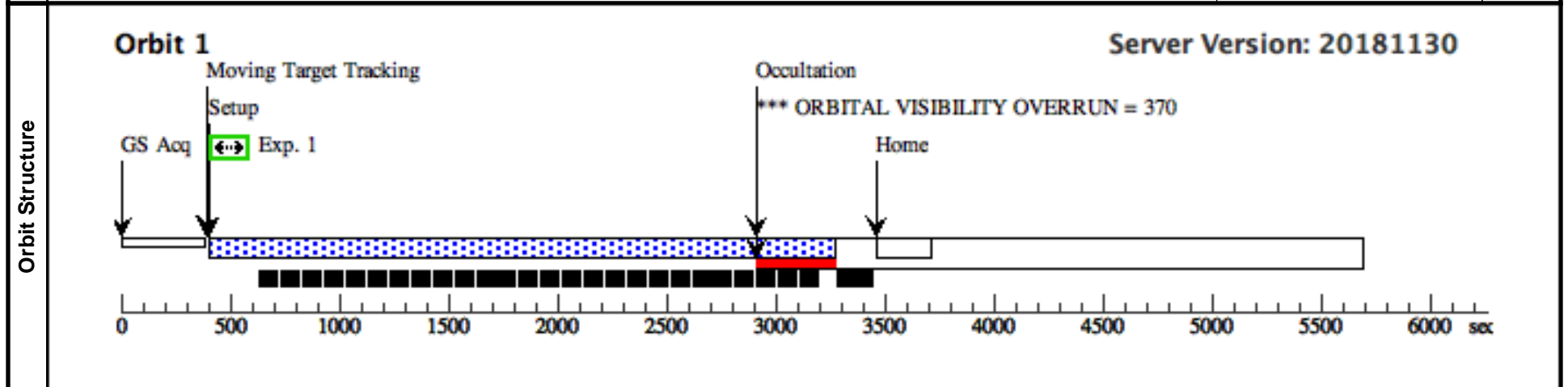
Wed Jun 12 19:04:16 GMT 2019

Visit	Proposal 15424, Visit 28, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 104.0D TO 114.0 D; BETWEEN 01-DEC-2017:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 01-NOV-2018:00:00:00
	(Visit 28) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 28)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 28) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 28)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Exposure 1 (Visit 28)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(28)	EUROPA-TRANSIT-28	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=21.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=31-AUG-2018:03:05:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-28 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(28) EUROPA-TRANSIT-28	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2720 Secs (2720 Secs)
[==>]										
[1]										



Proposal 15424 - Visit 29 - An intensive ultraviolet imaging campaign for Europa's plumes

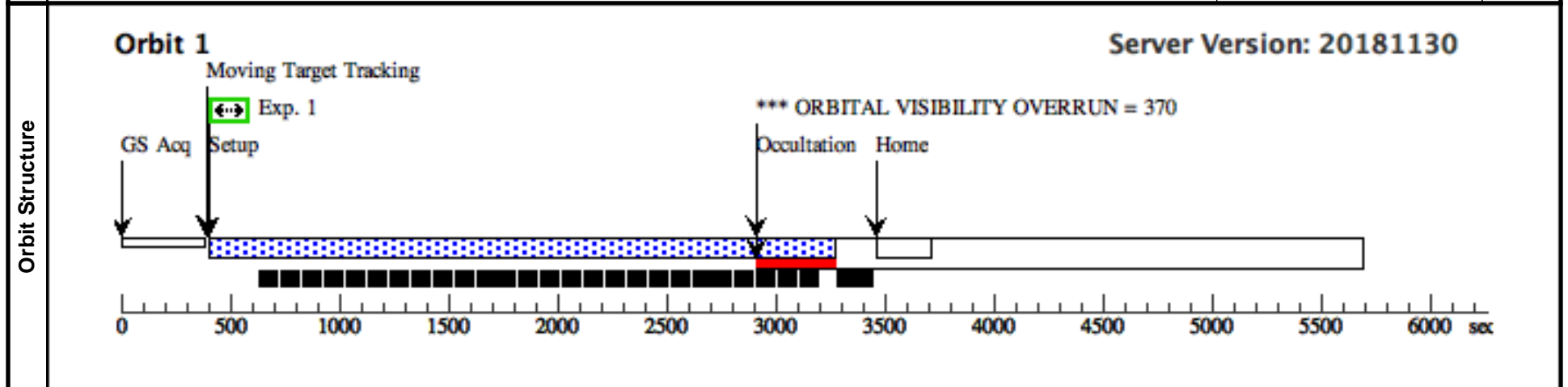
Wed Jun 12 19:04:16 GMT 2019

Visit	Proposal 15424, Visit 29, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 105.0D TO 115.0 D; BETWEEN 01-DEC-2017:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 01-NOV-2018:00:00:00
	(Visit 29) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 29)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 29) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 29)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Visit 29) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 29)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(29)	EUROPA-TRANSIT-29	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=-22.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=07-SEP-2018:06:43:00,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-29 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(29) EUROPA-TRANSIT-29	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2720 Secs (2720 Secs)
[==>]										
[1]										



Proposal 15424 - Visit 30 - An intensive ultraviolet imaging campaign for Europa's plumes

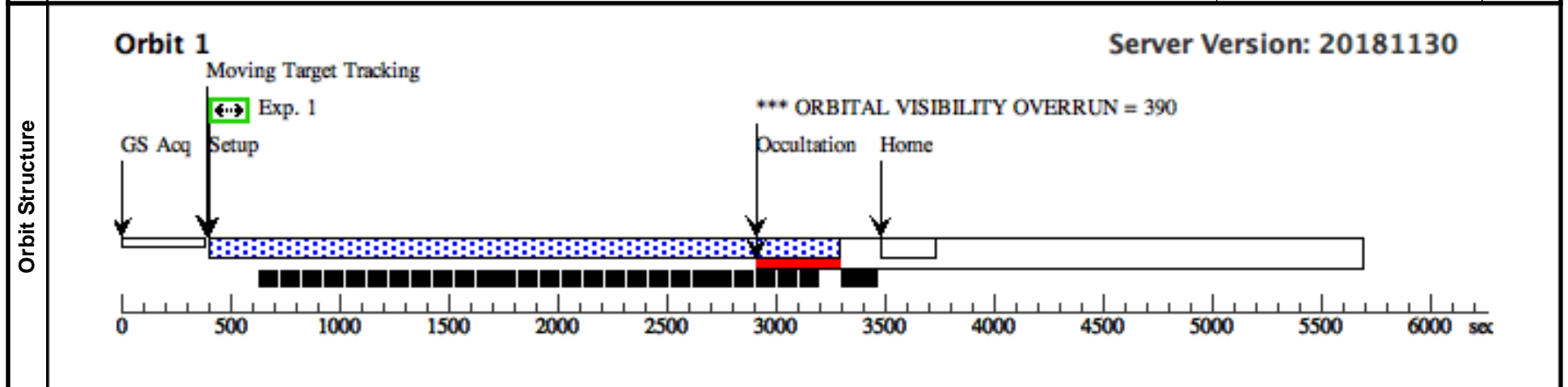
Wed Jun 12 19:04:16 GMT 2019

Visit	Proposal 15424, Visit 30, completed Diagnostic Status: Warning Scientific Instruments: STIS/FUV-MAMA Special Requirements: SCHED 100%; ORIENT 100.0D TO 110.0 D; BETWEEN 01-DEC-2017:00:00:00 AND 06-MAY-2018:21:00:00; BETWEEN 11-MAY-2018:04:00:00 AND 01-NOV-2018:00:00:00
	(Visit 30) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 30)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Diagnosics	(Visit 30) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 1 (Visit 30)) Warning (Form): Sensitive exposures should have an ETC run number provided.
	(Exposure 1 (Visit 30)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
	(30)	EUROPA-TRANSIT-30	STD=JUPITER	STD=EUROPA	TYPE=POS_ANGLE,RAD=8.2,ANG=17.6,REF=NORTH,R_RAD=-51.0,R_ANG=0.0,EPOCH=17-SEP-2018:22:32:30,EpochTimeScale=UTC	TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, SEP OF EUROPA JUPITER FROM EARTH LT -5", NOT OCC OF EUROPA-TRANSIT-30 BY JUPITER FROM EARTH	EARTH
<i>Comments: Description=Europa</i>							

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(30) EUROPA-TRANSIT-30	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=99				2740 Secs (2740 Secs)
[==>]										
[1]										



Proposal 15424 - Visit B4 - An intensive ultraviolet imaging campaign for Europa's plumes

Wed Jun 12 19:04:16 GMT 2019

Visit	<p>Proposal 15424, Visit B4, scheduling</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: STIS/FUV-MAMA</p> <p>Special Requirements: (none)</p> <p><i>Comments: This visit is set as a "buddy visit" to turn on the MAMA prior to the beginning of observations</i></p>																														
Diagnostics	<p>(Exposure 1 (Visit B4)) Error (Form): DEF is not a valid selection.</p> <p>(Exposure 1 (Visit B4)) Error (Form): Illegal selection: DEF.</p> <p>(Exposure 1 (Visit B4)) Error (Form): Target DARK is no longer a valid selection</p> <p>(Exposure 1 (Visit B4)) Error (Form): This attribute is not allowed to have this value: Aperture = DEF It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Visit B4)) Error (Form): This attribute is not allowed to have this value: Calibration_Target = DARK It is a Restricted option and can only be used in an engineering proposal.</p> <p>(Exposure 1 (Visit B4)) Error (Form): This attribute is not allowed to have this value: Spectral_Element = DEF It is an Available option and cannot normally be used in a GO proposal.</p>																														
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>DARK</td> <td>STIS/FUV-MAMA, ACCUM, DEF</td> <td>DEF</td> <td></td> <td></td> <td></td> <td>1000 Secs (1000 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1		DARK	STIS/FUV-MAMA, ACCUM, DEF	DEF				1000 Secs (1000 Secs)										[==>]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																						
1		DARK	STIS/FUV-MAMA, ACCUM, DEF	DEF				1000 Secs (1000 Secs)																							
								[==>]	[1]																						
Orbit Structure	<p>Orbit 1 Server Version: 20181130</p> <p>Exp. 1</p> <p>Unused Orbital Visibility = 3142</p> <p>The diagram shows a horizontal timeline from 0 to 6000 seconds. A green bar starts at 0 and ends at 1000 seconds. A white bar starts at 1000 seconds and ends at 3142 seconds. A black bar is located at 1000 seconds, labeled 'Home'. A white bar starts at 3142 seconds and ends at 5700 seconds, labeled 'Occultation'. The text 'Unused Orbital Visibility = 3142' is shown at the top left. The text 'Exp. 1' is shown at the top left. The text 'Server Version: 20181130' is shown at the top right.</p>																														