14811 - The Grand Finale : probing the origin of Saturn s aurorae with HST observations simultaneous to Cassini polar measurements

Cycle: 24, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:07:44.0	yes
02	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:07:45.0	yes
03	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:07:47.0	yes
04	(2) SATURN-NORTH-VISIT4	STIS/FUV-MAMA	1	03-Apr-2017 21:07:48.0	yes
05	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:07:49.0	yes
06	(3) SATURN-NORTH-VISIT6	STIS/FUV-MAMA	1	03-Apr-2017 21:07:50.0	yes
07	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:07:51.0	yes
08	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:07:52.0	yes
09	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:07:53.0	yes
10	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:07:54.0	yes
11	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:07:55.0	yes
12	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:07:56.0	yes
13	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:07:58.0	yes
14	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:07:59.0	yes
15	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:08:00.0	yes
16	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:08:00.0	yes
17	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:08:01.0	yes
18	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:08:02.0	yes
19	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:08:03.0	yes
20	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:08:04.0	yes
21	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:08:05.0	yes
22	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:08:06.0	yes
23	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:08:07.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
24	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:08:08.0	yes
25	(4) SATURN-NORTH-VISIT25	STIS/FUV-MAMA	1	03-Apr-2017 21:08:09.0	yes
26	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:08:10.0	yes
27	(1) SATURN	STIS/FUV-MAMA	1	03-Apr-2017 21:08:11.0	yes

27 Total Orbits Used

ABSTRACT

With the increasing tilting of Saturn s north pole toward the Earth, HST has the opportunity to achieve unprecedented views of the entire northern aurorae at high spatial and temporal resolution. Such observations will shed light onto the auroral processes specific to the northern magnetosphere (the planet s magnetic dipole is offset toward the north) and compared to past similar observations of the southern aurorae. Furthermore, the Cassini spacecraft is about to start its last mission phase - the grand finale - with polar orbits around the planet, sampling the unexplored auroral regions at low altitude, before ultimately impacting the atmosphere. This proposal aims at taking advantage of this unique occasion to identify the acceleration processes responsible for Saturn's aurorae with HST remote observations combined with Cassini local measurements. HST images and spectra of the northern aurorae will primarily be scheduled when Cassini samples in situ the plasma conditions within the auroral regions, to assess fundamental plasma physics processes including acceleration, wave-particle interaction and energy/momentum transfer. Several HST orbits will also be coordinated with Cassini remote imaging of the southern aurorae to achieve a simultaneous view of both hemispheres and investigate magnetic (non-)conjugacy.

OBSERVING DESCRIPTION

Observations of Saturn's northern UV aurorae while Cassini observes the southern aurorae. The time windows are critical and are listed in order of preference. Visits 01-03 and 04-06 are grouped within 11h to observe auroral dynamics over a fraction of a planetary rotation.

Each visit consists of a single STIS orbit, made of a unique long exposure time-tagged FUV-MAMA image. The SrF2 filter is used to minimise geocoronal contamination. Time-tag mode is used with a buffer of 100s. Past observations show that the maximum global count rate remains <10000 cts/sec. Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Visit

Proposal 14811, Imaging - Cassini F-ring north (01), completed Tue Apr 04 01:08:12 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 14-FEB-2017:02:19:00 AND 14-FEB-2017:05:08:00; VISIBILITY INTERVAL 53 M

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini F-ring north (01))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

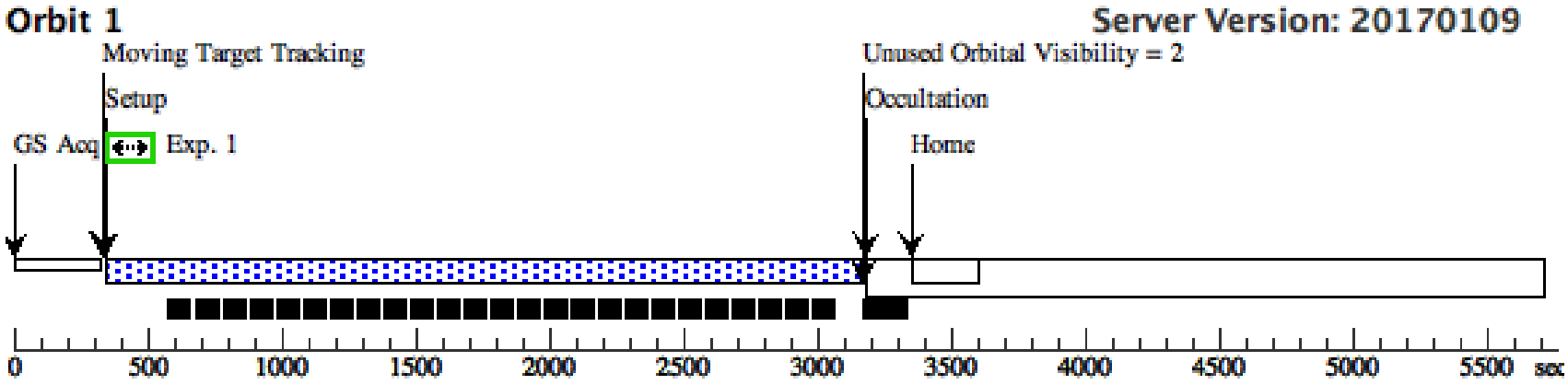
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2670 Secs (2670 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (02), implementation Tue Apr 04 01:08:12 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 02-MAY-2017:16:38:00 AND 02-MAY-2017:19:52:00; VISIBILITY INTERVAL 52.5 M

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (02))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

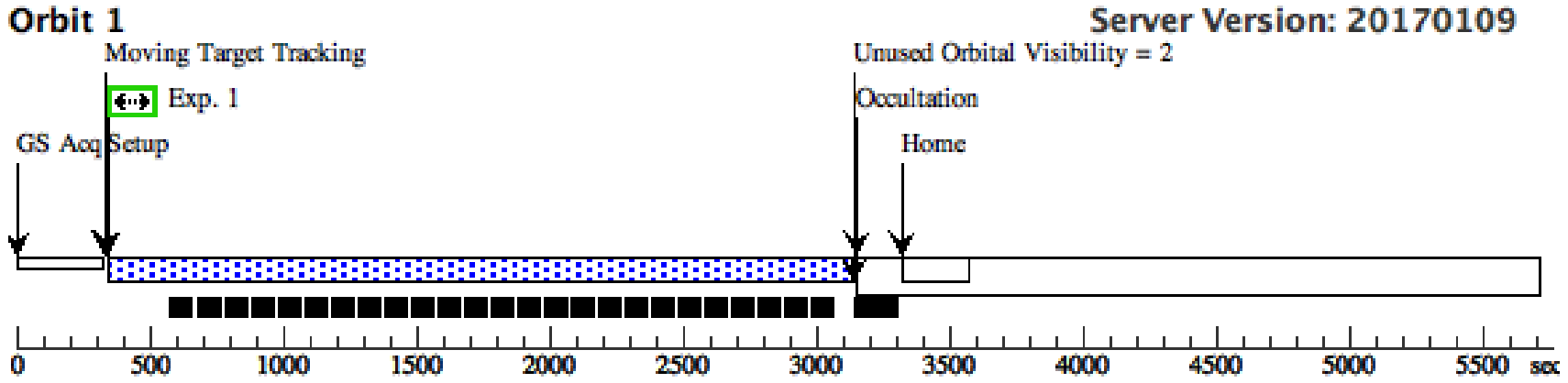
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2640 Secs (2640 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini F-ring north (03), completed Tue Apr 04 01:08:12 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 07-MAR-2017:14:29:00 AND 07-MAR-2017:17:20:00; VISIBILITY INTERVAL 52.5 M

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini F-ring north (03))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

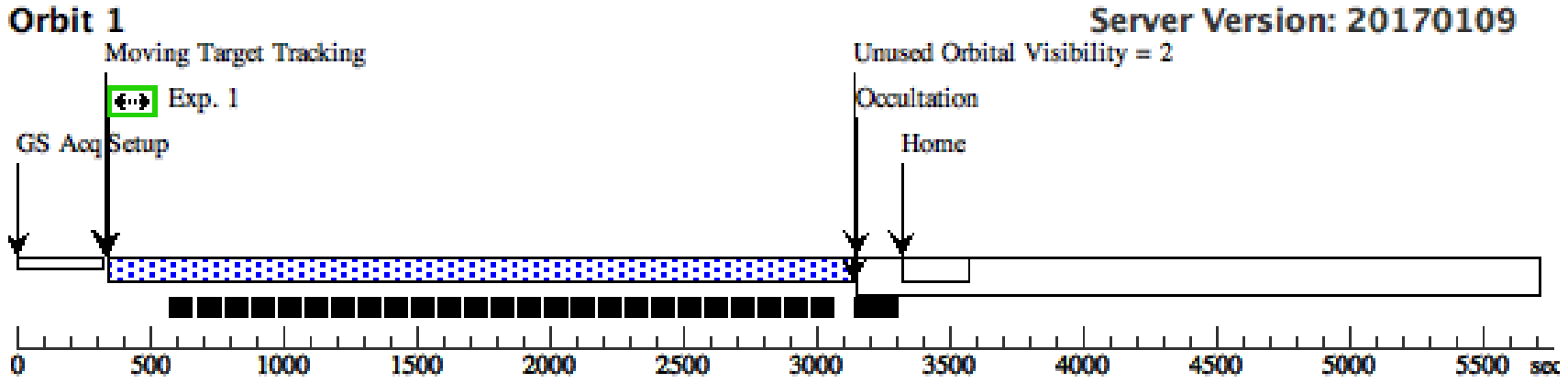
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2640 Secs (2640 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Spectroscopy - Cassini F-ring south (04), completed Tue Apr 04 01:08:12 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 276D TO 276 D; BETWEEN 07-MAR-2017:21:36:00 AND 08-MAR-2017:01:10:00; VISIBILITY INTERVAL 52.5 M

Comments: Context : Observations of Saturn's southern UV aurorae coordinated to Cassini southern remote measurements.
The slewing is intended to cover the whole northern auroral region (~9arcsec motion).

Request :
- Please expand the exposure time of each observation as much as possible.

Diagnostics

(Spectroscopy - Cassini F-ring south (04)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

(Spectrum (04.001)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

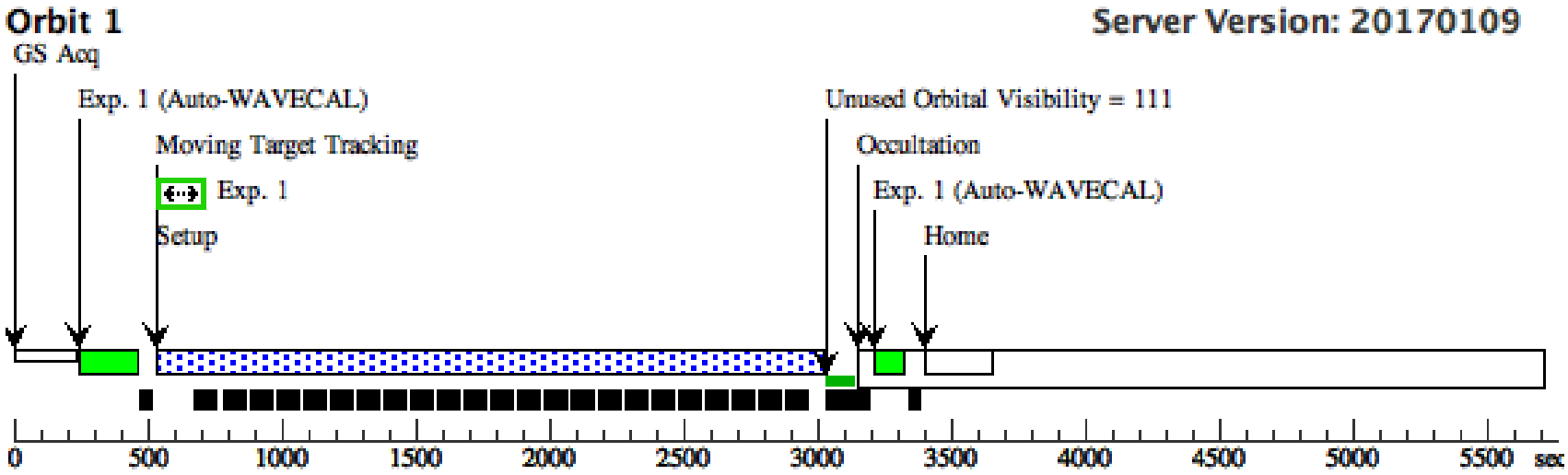
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(2)	SATURN-NORTH-VISIT4	STD=SATURN	TYPE=POS_ANGLE,RAD=0,ANG=321.0,REF=NORTH,R_RAD=354.098,R_ANG=0,EPOCH=07-MAR-2017:23:10:21,EpochTimeScale=UTC		NOT ECL P PARTIAL OF SATURN-NORTH-VISIT4 BY TITAN FROM EARTH, SEP OF SATURN-NORTH-VISIT4 RHEA FROM EARTH GT 10", SEP OF SATURN-NORTH-VISIT4 TITAN FROM EARTH GT 10"	EARTH

Comments: Moving target.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Spectrum	(2) SATURN-NORTH-VISIT4	STIS/FUV-MAMA, TIME-TAG, 52X0.5	G140L 1425 A	BUFFER-TIME=100	GS ACQ SCENARIO SINGLE		2430 Secs (2430 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini F-ring north (05), completed Tue Apr 04 01:08:12 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 14-MAR-2017:18:23:00 AND 14-MAR-2017:21:16:00; VISIBILITY INTERVAL 52.5 M

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini F-ring north (05))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

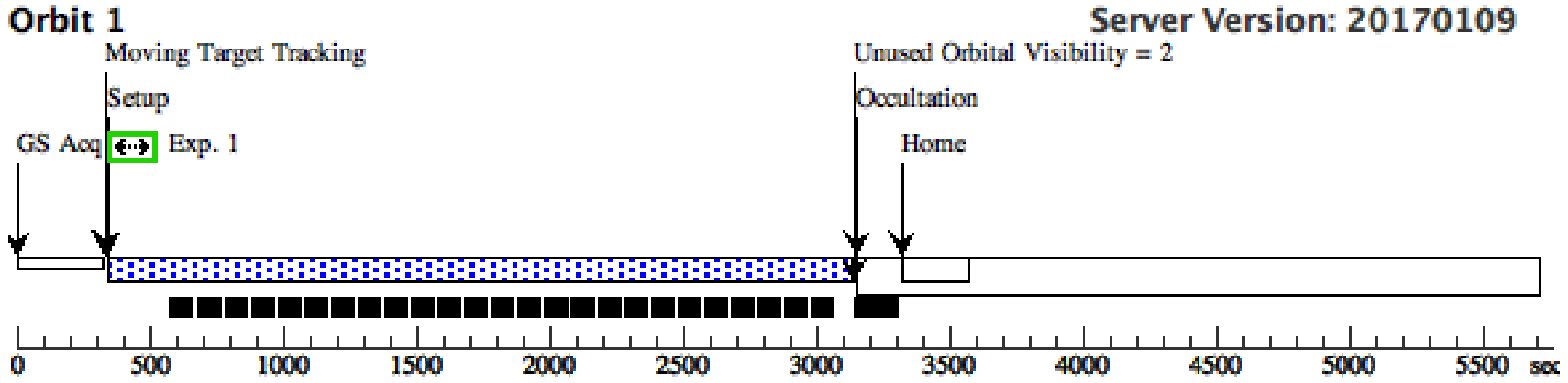
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2640 Secs (2640 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Spectroscopy - Cassini proximal south (06), withdrawn Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 92D TO 92 D; BETWEEN 14-AUG-2017:06:35:00 AND 14-AUG-2017:09:47:00; VISIBILITY INTERVAL 52.5 M

Comments: Context : Observations of Saturn's southern UV aurorae coordinated to Cassini southern remote measurements.
The slewing is intended to cover the whole northern auroral region (~9arcsec motion).

Request :
- Please expand the exposure time of each observation as much as possible.

Diagnostics

(Spectroscopy - Cassini proximal south (06)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

(Spectrum (06.001)) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

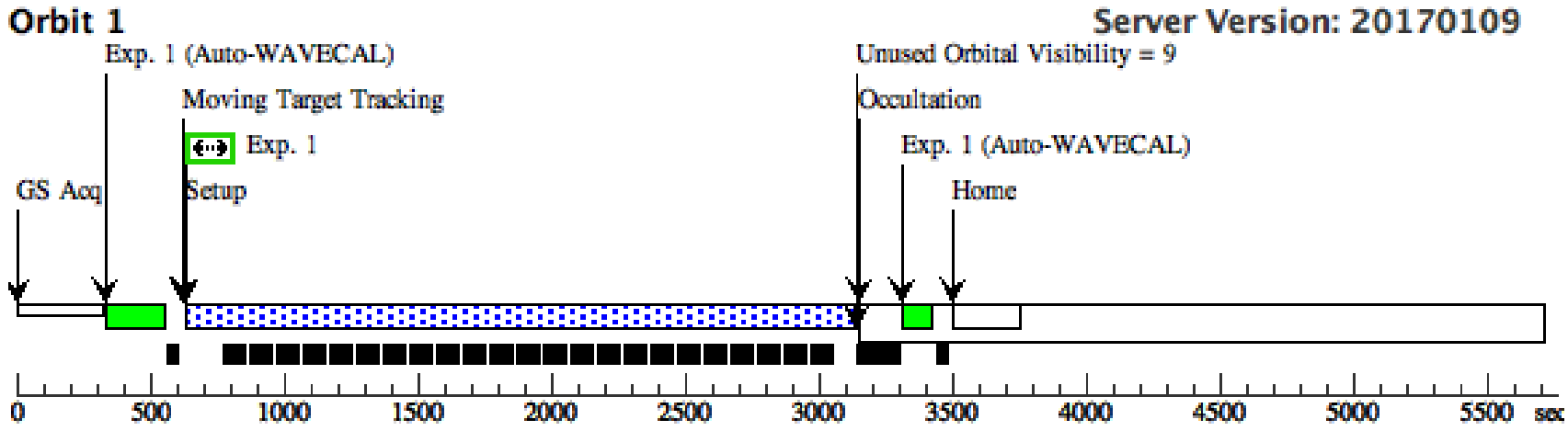
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(3)	SATURN-NORTH-VISIT6	STD=SATURN	TYPE=POS_ANGLE,RAD=0,ANG=317,REF=NORTH,R_RAD=354.098,R_ANG=0,EPOCH=14-AUG-2017:07:44:49,EpochTimeScale=UTC		NOT ECL P PARTIAL OF SATURN-NORTH-VISIT6 BY TITAN FROM EARTH, SEP OF SATURN-NORTH-VISIT6 RHEA FROM EARTH GT 10", SEP OF SATURN-NORTH-VISIT6 TITAN FROM EARTH GT 10"	EARTH

Comments: Moving target.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Spectrum	(3) SATURN-NORTH-VISIT6	STIS/FUV-MAMA, TIME-TAG, 52X0.5	G140L 1425 A	BUFFER-TIME=100			2440 Secs (2440 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini F-ring north (07), scheduled Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 05-APR-2017:05:55:00 AND 05-APR-2017:08:47:00

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval

Diagnostics

(Exposure 1 (Imaging - Cassini F-ring north (07))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

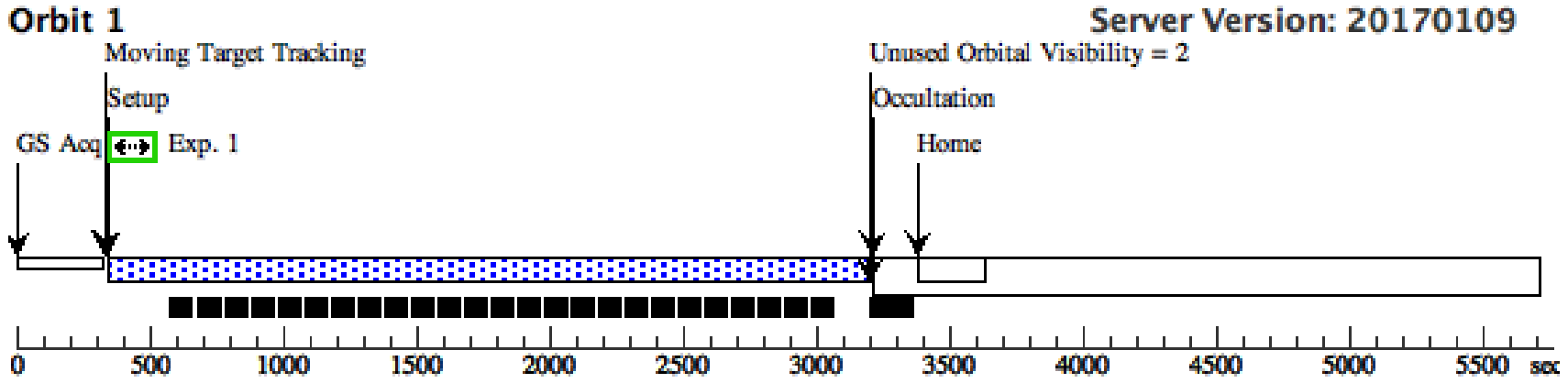
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2700 Secs (2700 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini F-ring north (08), completed Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 29-MAR-2017:02:04:00 AND 29-MAR-2017:04:57:00

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini F-ring north (08))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

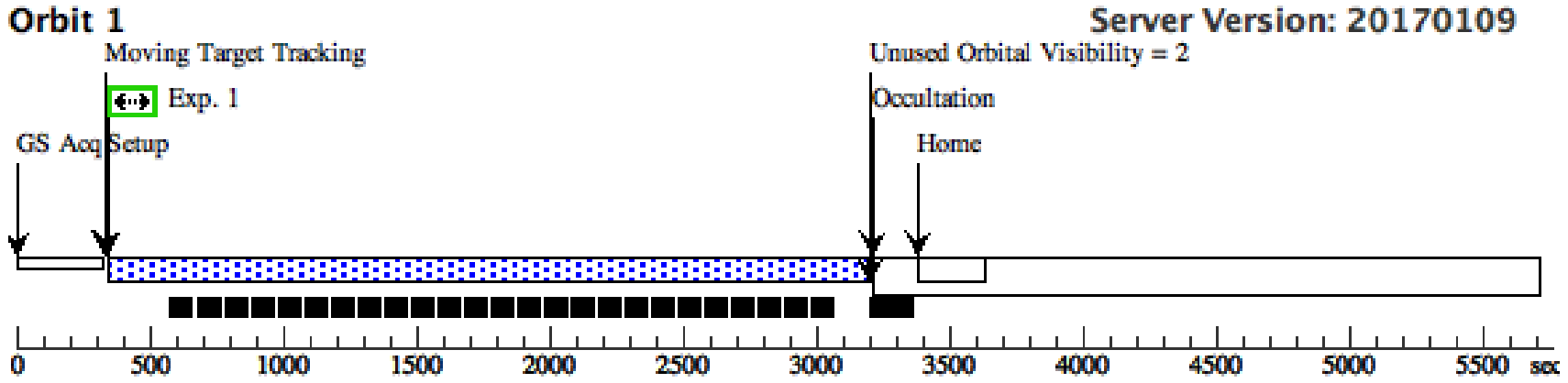
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2700 Secs (2700 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini F-ring north (09), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 19-APR-2017:13:59:00 AND 19-APR-2017:16:50:00; VISIBILITY INTERVAL 52.5 M

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini F-ring north (09))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

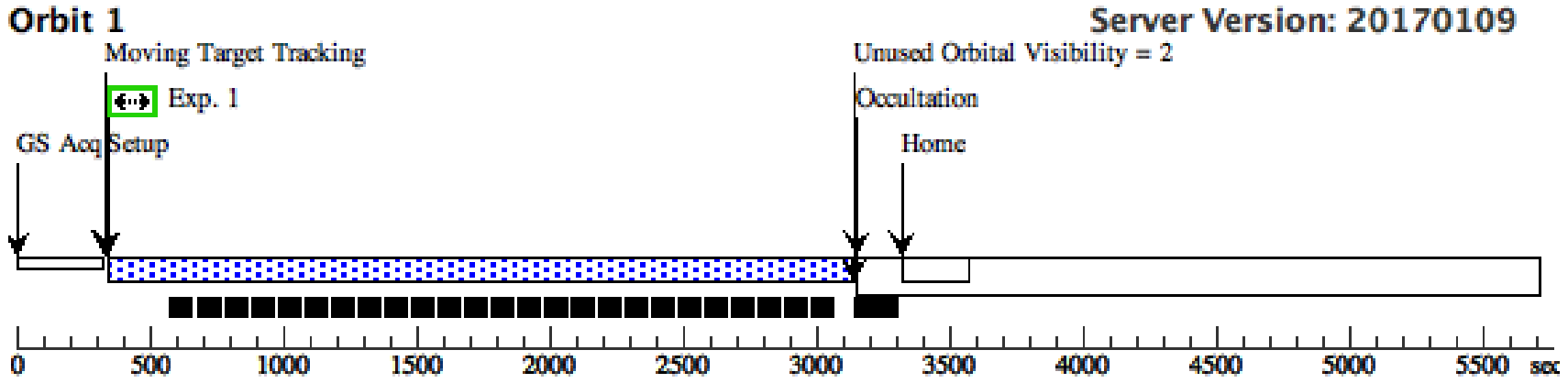
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2640 Secs (2640 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (10), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 22-MAY-2017:00:08:00 AND 22-MAY-2017:03:23:00; VISIBILITY INTERVAL 52.5 M

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (10))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

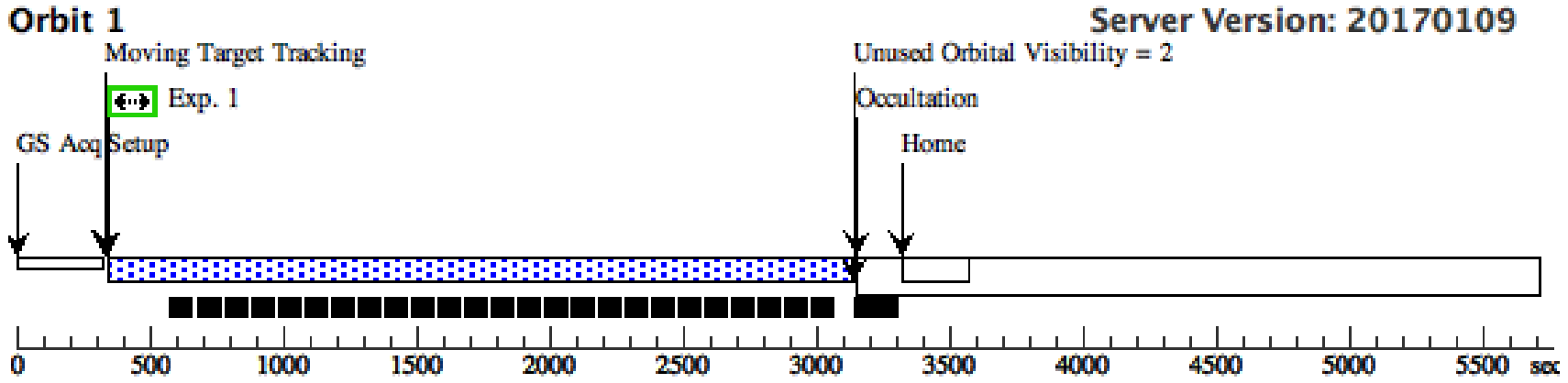
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2640 Secs (2640 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (11), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 22-MAY-2017:00:08:00 AND 22-MAY-2017:03:23:00

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (11))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

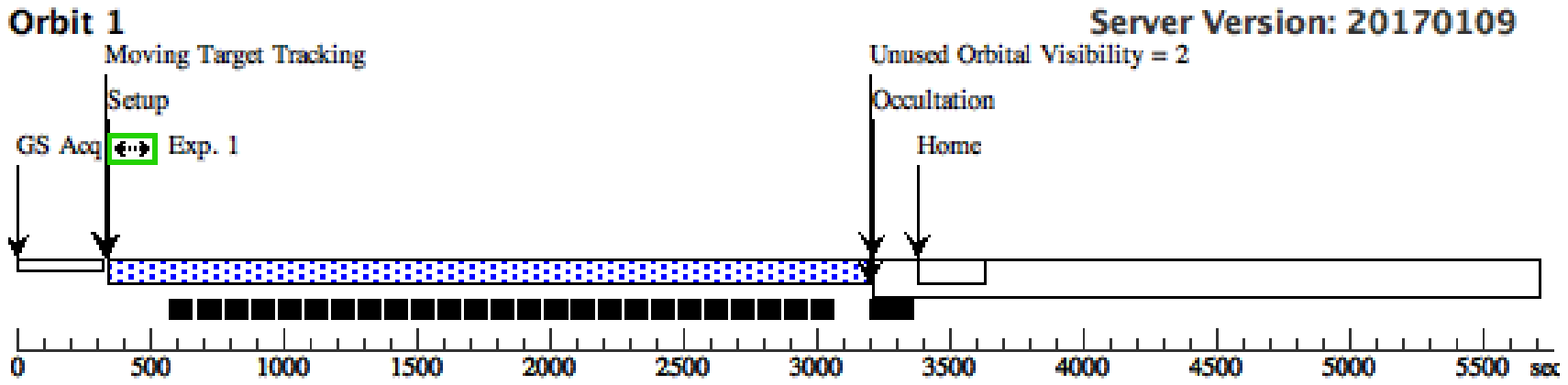
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2700 Secs (2700 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (12), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 03-JUN-2017:22:34:00 AND 04-JUN-2017:01:49:00; VISIBILITY INTERVAL 50.1 M

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (12))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

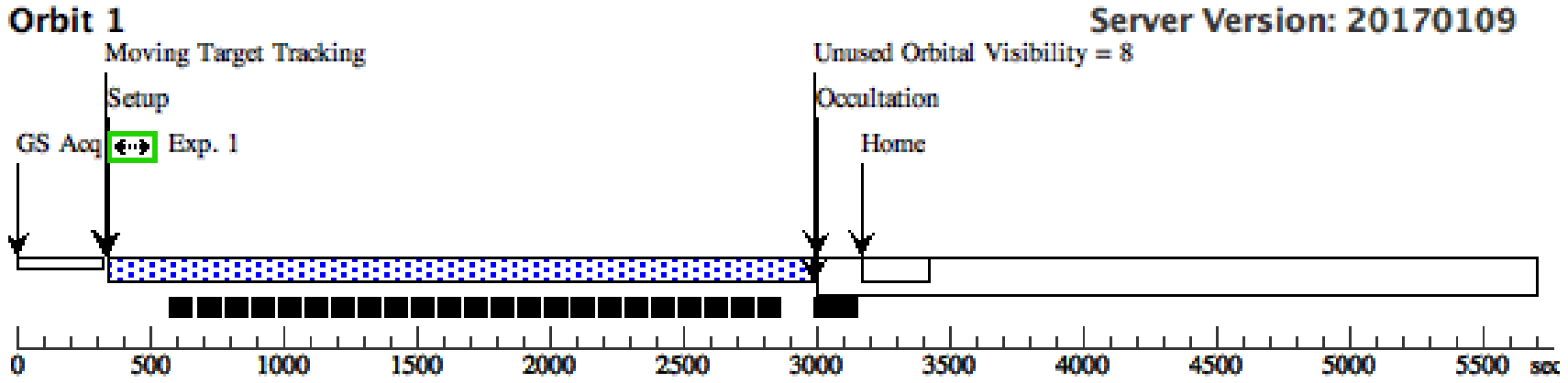
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2490 Secs (2490 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (13), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 23-JUN-2017:07:49:00 AND 23-JUN-2017:11:03:00; VISIBILITY INTERVAL 49.7 M

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (13))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

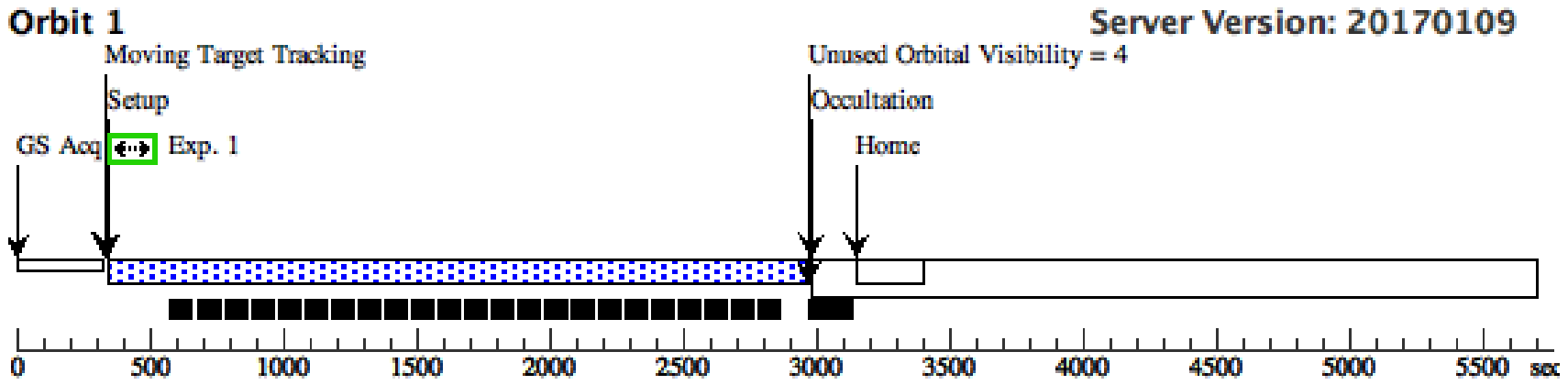
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100	GS ACQ SCENARIO BASE1B3		2470 Secs (2470 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (14), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 06-JUL-2017:06:27:00 AND 06-JUL-2017:09:41:00

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (14))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

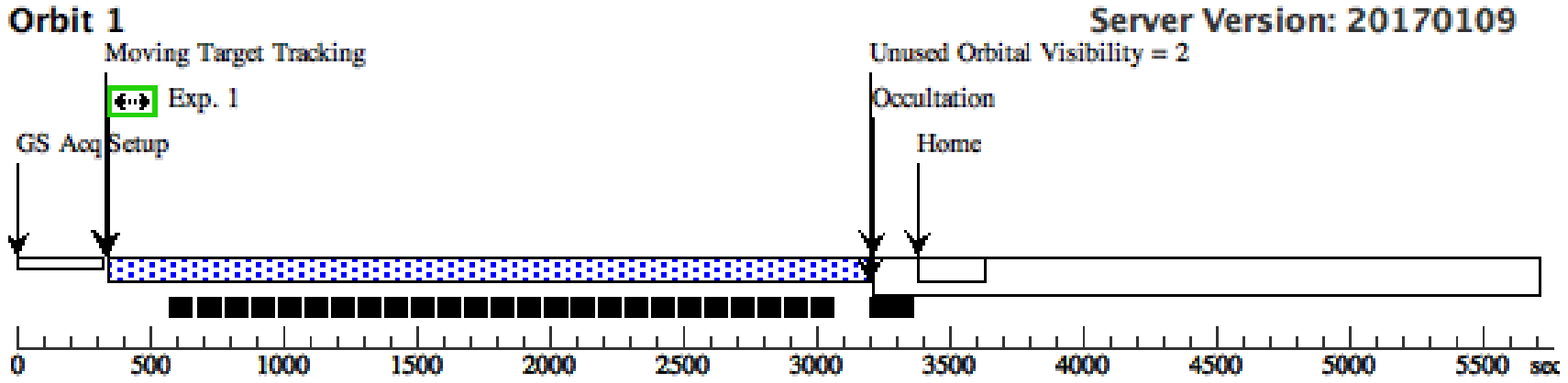
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2700 Secs (2700 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (15), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 25-JUL-2017:15:53:00 AND 25-JUL-2017:19:06:00

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (15))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

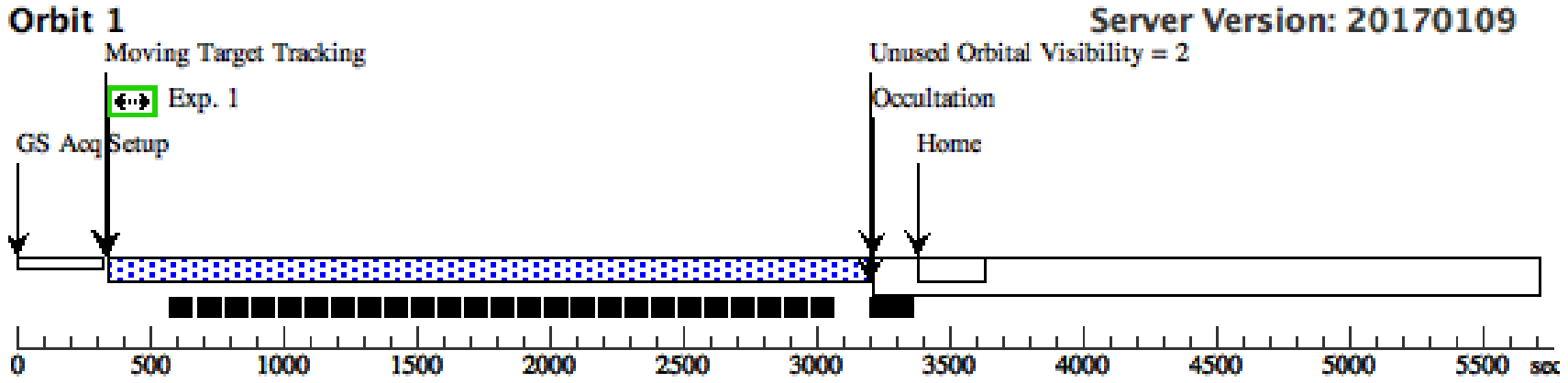
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100	GS ACQ SCENARIO BASE1B3		2700 Secs (2700 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (16), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 25-JUL-2017:15:53:00 AND 25-JUL-2017:19:06:00

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (16))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

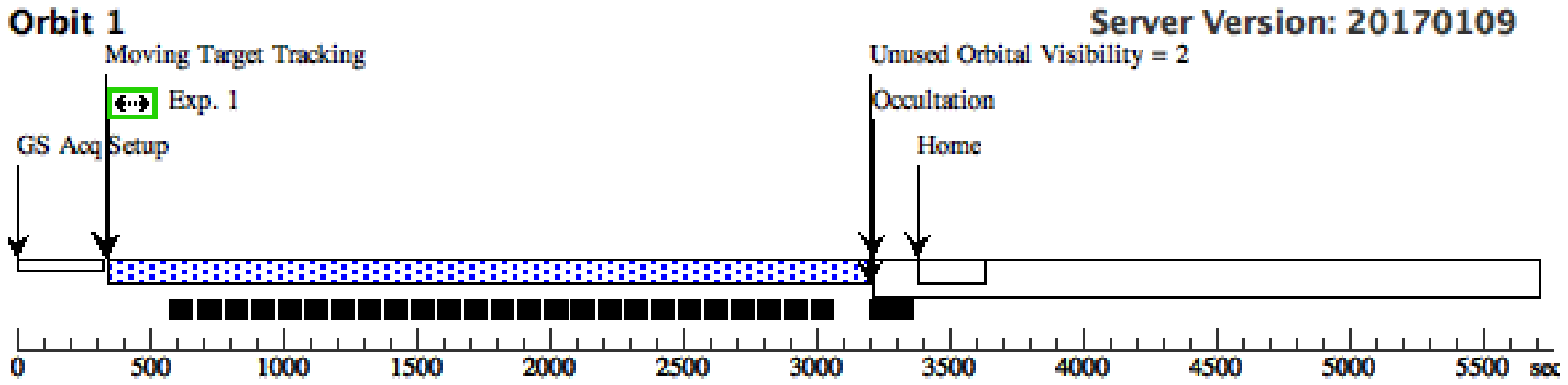
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100	GS ACQ SCENARIO BASE1B3		2700 Secs (2700 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (17), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 07-AUG-2017:14:18:00 AND 07-AUG-2017:17:31:00

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (17))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

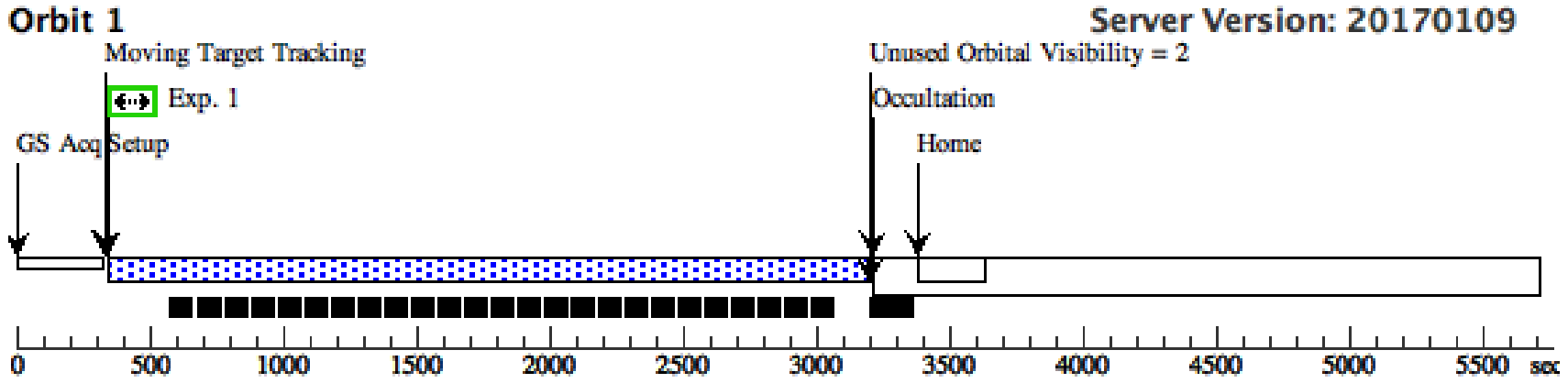
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2700 Secs (2700 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (18), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 26-AUG-2017:23:19:00 AND 27-AUG-2017:02:32:00

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (18))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

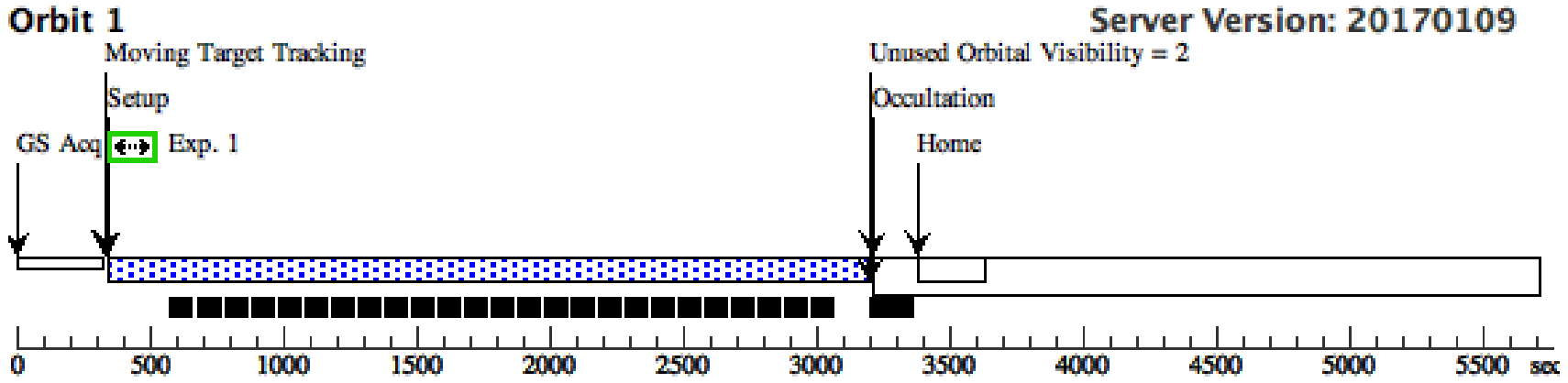
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2700 Secs (2700 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (19), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 26-AUG-2017:23:19:00 AND 27-AUG-2017:02:32:00

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (19))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

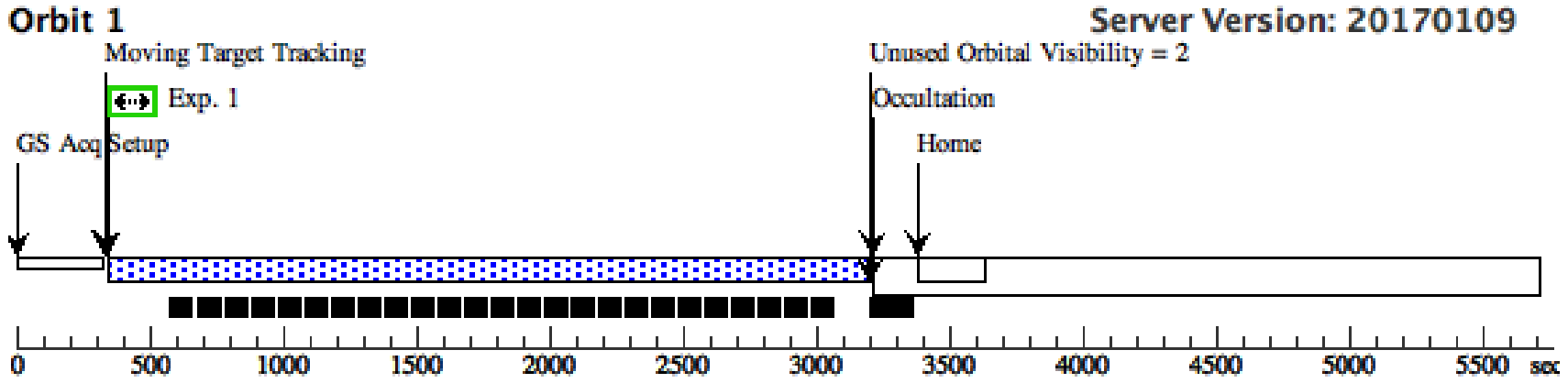
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2700 Secs (2700 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (20), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 08-SEP-2017:21:19:00 AND 09-SEP-2017:00:31:00

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (20))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

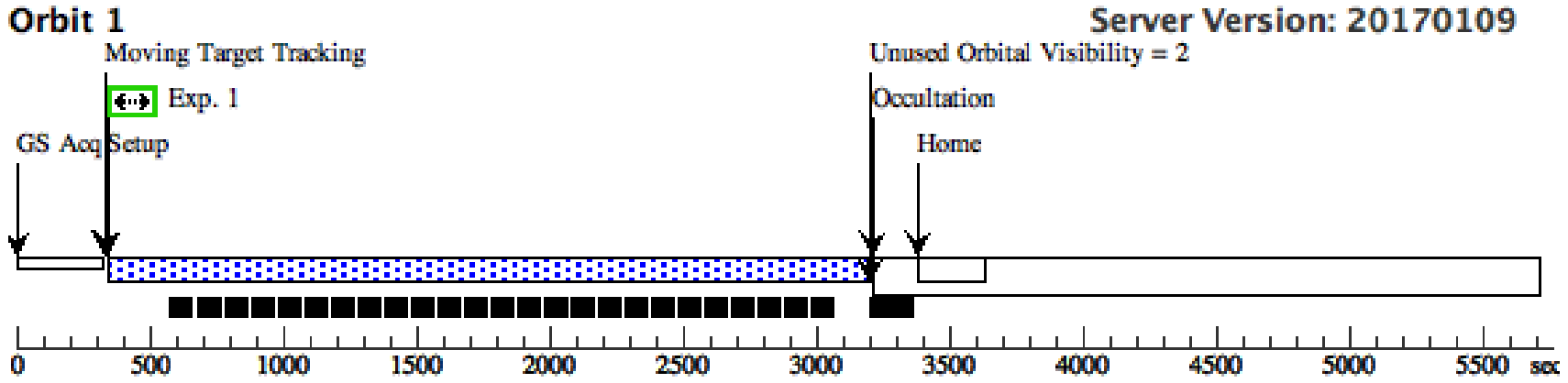
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2700 Secs (2700 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (21), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 08-SEP-2017:21:19:00 AND 09-SEP-2017:00:31:00

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (21))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

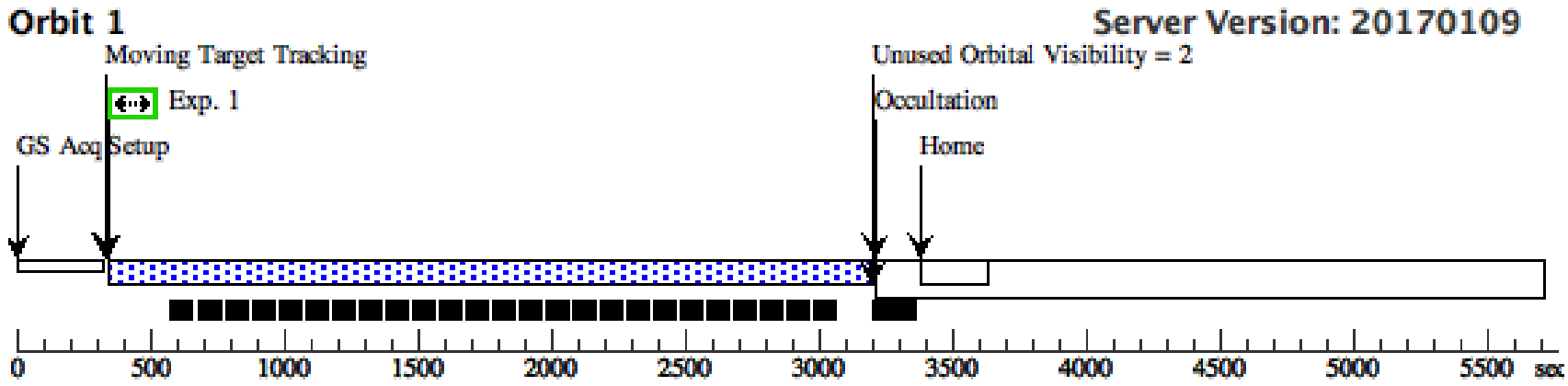
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100	GS ACQ SCENARIO BASE1B3		2700 Secs (2700 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (22), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 23-JUN-2017:07:49:00 AND 23-JUN-2017:11:03:00; VISIBILITY INTERVAL 49.1 M

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (22))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

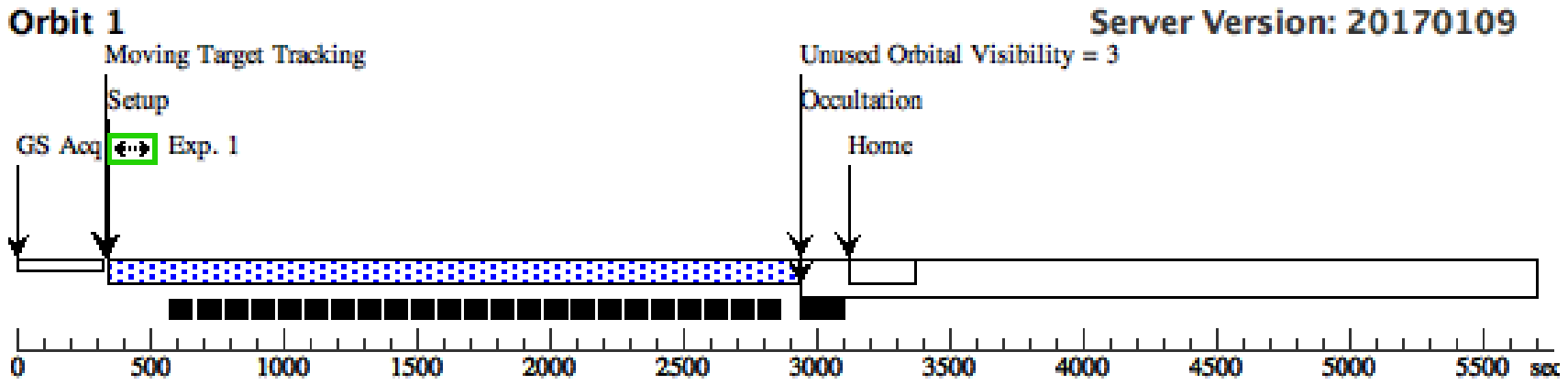
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100	GS ACQ SCENARIO BASE1B3		2435 Secs (2435 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal south (23), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 27-AUG-2017:04:34:00 AND 27-AUG-2017:07:46:00

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini southern remote measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the early portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal south (23))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

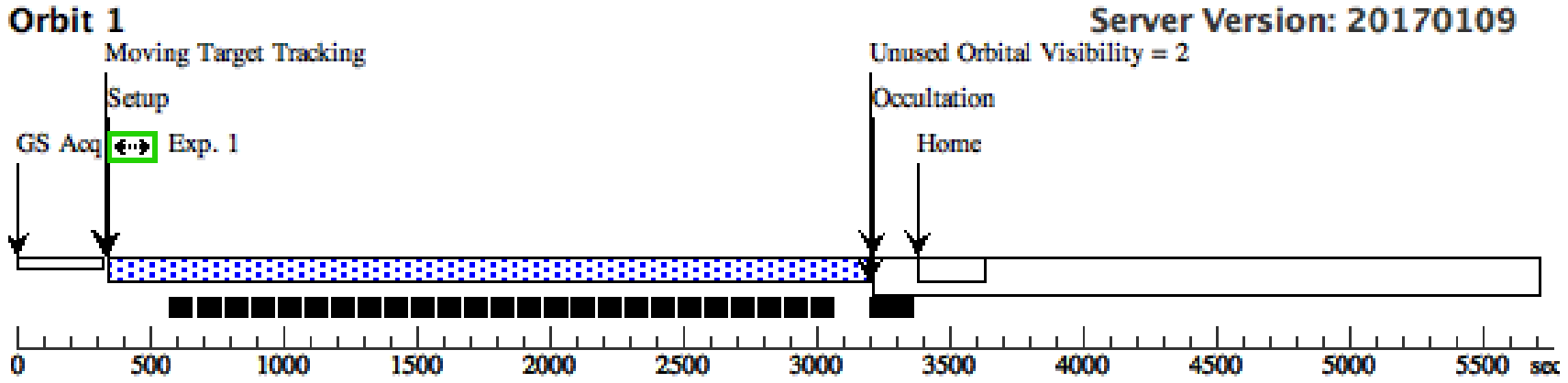
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2700 Secs (2700 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (24), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 03-JUN-2017:20:24:00 AND 03-JUN-2017:22:23:00; VISIBILITY INTERVAL 50.1 M

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (24))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

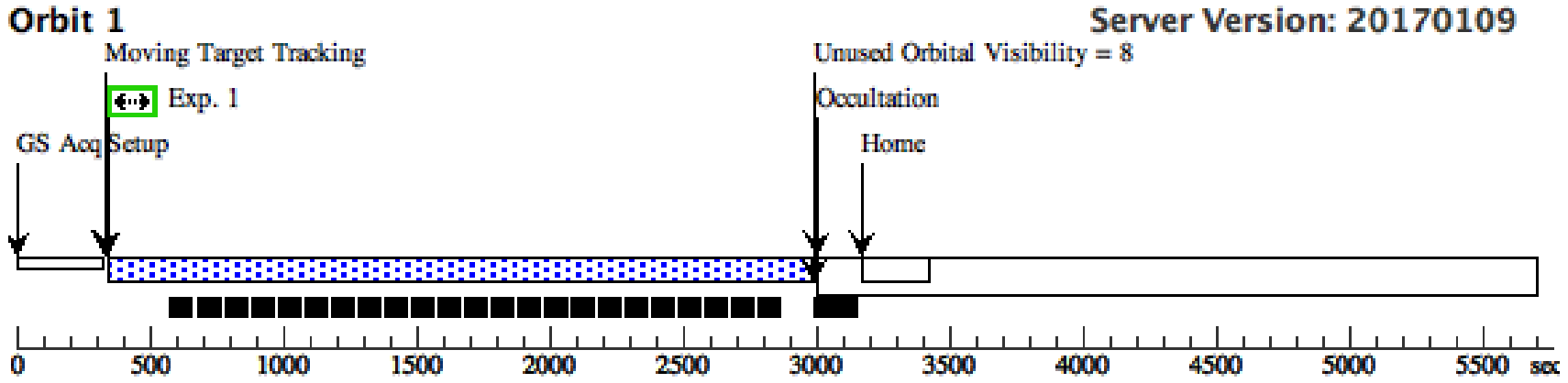
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2490 Secs (2490 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14811, Spectroscopy - Cassini proximal south (25), withdrawn Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 114D TO 114 D; BETWEEN 08-SEP-2017:21:19:00 AND 09-SEP-2017:01:00:00

Comments: Context : Observations of Saturn's southern UV aurorae coordinated to Cassini southern remote measurements.
The slewing is intended to cover the whole northern auroral region (~9arcsec motion).

Request :
- Please expand the exposure time of each observation as much as possible.

Diagnostics

(Spectroscopy - Cassini proximal south (25)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

(Spectrum (25.001)) Warning (Form): Sensitive exposures should have an ETC run number provided.

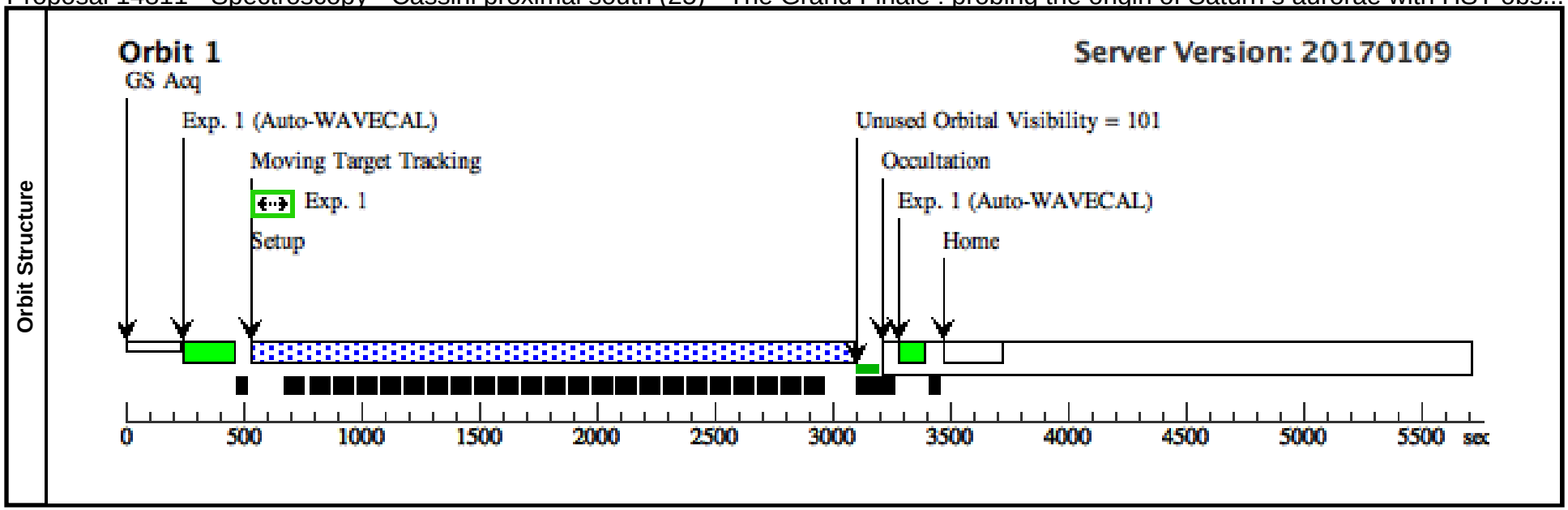
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(4)	SATURN-NORTH-VISIT25	STD=SATURN	TYPE=POS_ANGLE,RAD=0,ANG=339,REF=NORTH,R_RAD=354.098,R_ANG=0,EPOCH=08-SEP-2017:21:25:28,EpochTimeScale=UTC		NOT ECL P PARTIAL OF SATURN-NORTH-VISIT25 BY TITAN FROM EARTH, SEP OF SATURN-NORTH-VISIT25 RHEA FROM EARTH GT 10", SEP OF SATURN-NORTH-VISIT25 TITAN FROM EARTH GT 10"	EARTH

Comments: Moving target.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Spectrum	(4) SATURN-NORTH-VISIT25	STIS/FUV-MAMA, TIME-TAG, 52X0.5	G140L 1425 A	BUFFER-TIME=100	GS ACQ SCENARIO SINGLE		2500 Secs (2500 Secs) *[==>]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20170109
GS Acq
Exp. 1 (Auto-WAVECAL)
Moving Target Tracking
Exp. 1
Setup
Unused Orbital Visibility = 101
Occultation
Exp. 1 (Auto-WAVECAL)
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14811, Imaging - Cassini proximal north (26), implementation Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 14-AUG-2017:06:35:00 AND 14-AUG-2017:09:47:00; VISIBILITY INTERVAL 52.5 M

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (26))) Warning (Form): Sensitive exposures should have an ETC run number provided.

Solar System Targets

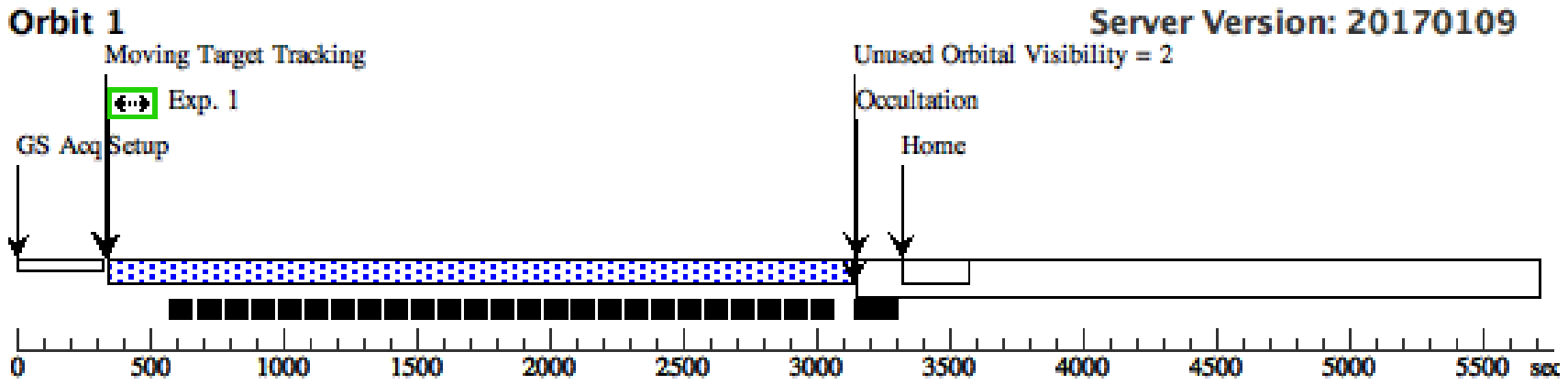
#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2640 Secs (2640 Secs)	
								[==>]	*[1]*

Orbit Structure



Visit

Proposal 14811, Imaging - Cassini proximal north (27) Tue Apr 04 01:08:13 GMT 2017

Diagnostic Status: Warning

Scientific Instruments: STIS/FUV-MAMA

Special Requirements: ORIENT 168D TO 288 D; ORIENT 348D TO 360 D; ORIENT 0.1D TO 108 D; BETWEEN 07-AUG-2017:14:18:00 AND 07-AUG-2017:17:31:00

Comments: Context : Observations of Saturn's northern UV aurorae coordinated to Cassini northern in situ measurements.
Orient ranges are intended to avoid the repeller wire shadow and dark current across the northern polar region.

Request :
- Please expand the exposure time of each observation as much as possible.
- Preference for the later portion of the indicated BETWEEN interval.

Diagnostics

(Exposure 1 (Imaging - Cassini proximal north (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
(1)	SATURN	STD=SATURN				EARTH

Comments: Moving target. Point at centre of planet so that the northern polar region and the front and rear parts of A, B, C rings fit in the MAMA aperture.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) SATURN	STIS/FUV-MAMA, TIME-TAG, F25SRF2	MIRROR	BUFFER-TIME=100			2700 Secs (2700 Secs) *[==>]*	*[1]*

Orbit Structure