



# 16233 - Jets and disk scattering - Spatially resolved optical and FUV observations of AA Taudac

Cycle: 28, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

## INVESTIGATORS

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Dr. Gregory J. Herczeg (CoI)	Peking University	gherczeg1@gmail.com

**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) V-AA-TAU WAVE	STIS/CCD STIS/FUV-MAMA	2	08-Nov-2022 16:00:38.0	yes
02	(1) V-AA-TAU WAVE	STIS/CCD STIS/FUV-MAMA	2	08-Nov-2022 16:00:40.0	yes
03	(1) V-AA-TAU WAVE	STIS/CCD STIS/FUV-MAMA	2	08-Nov-2022 16:00:41.0	yes
04	(1) V-AA-TAU WAVE	STIS/CCD STIS/FUV-MAMA	1	08-Nov-2022 16:00:42.0	yes
4B	(1) V-AA-TAU WAVE	STIS/CCD STIS/FUV-MAMA	1	08-Nov-2022 16:00:43.0	yes
05	(1) V-AA-TAU WAVE	STIS/CCD STIS/FUV-MAMA	1	08-Nov-2022 16:00:44.0	yes
5B	(1) V-AA-TAU WAVE	STIS/CCD STIS/FUV-MAMA	1	08-Nov-2022 16:00:44.0	yes
06	(1) V-AA-TAU WAVE	STIS/CCD STIS/FUV-MAMA	1	08-Nov-2022 16:00:45.0	yes
6B	(1) V-AA-TAU WAVE	STIS/CCD STIS/FUV-MAMA	1	08-Nov-2022 16:00:46.0	yes
07	(1) V-AA-TAU WAVE	STIS/CCD	1	08-Nov-2022 16:00:47.0	yes
7B	(1) V-AA-TAU WAVE	STIS/CCD	1	08-Nov-2022 16:00:48.0	yes
08	(1) V-AA-TAU WAVE	STIS/CCD	2	08-Nov-2022 16:00:49.0	yes
09	(1) V-AA-TAU WAVE	STIS/CCD	1	08-Nov-2022 16:00:51.0	yes

17 Total Orbits Used

## **ABSTRACT**

Planets form during the time, when the central star accretes material from the surrounding circumstellar disk and the final system architecture depends on the poorly known accretion and ejection history. Accretion tracers are particularly prominent in the UV so that the HST legacy program ULLYSES was conceived to obtain a UV atlas of accreting, young stars. In the UV, however, extinction is a severe issue and already moderate amounts of dust can completely extinguish any (accretion) signal. Accretion and extinction decline with age so that it is imperative to understand how well UV observations actually trace genuine accretion emission for higher absorption column densities or if rather other processes, namely jet emission or light scattered towards the observer by the upper disk layers, mimic accretion in spatially unresolved data such as the ULLYSES COS observations.

Our target, the classical T Tauri star AA Tau, currently experiences a long-lasting dimming event, presumably caused by inner disk dust, i.e., the star is currently hidden behind a "natural coronagraph" and the direct emission is greatly reduced. Spatially unresolved HST COS data suggest that jet emission and scattering dominate the integrated FUV light during the dimming event. We propose to utilize this situation to detect UV scattering for the first time and to measure the jet's contribution to the FUV light through spatially resolving the emission with a series of STIS long-slit spectra. This experiment, right in time for ULLYSES, will uncover what fundamentally limits UV accretion studies, lack of signal due to absorption or "contaminating" emission spoiling the interpretation of the signals.

## **OBSERVING DESCRIPTION**

The goal of this program is to spatially resolve the FUV and optical emission in the AA Tau system through a series of STIS long-slit observations with the slit oriented along the jet axis (perpendicular to disk's major axis).

The program has been changed to visits of max 2 orbits following the cycle 28 recommendations. The target (the jet) is variable and the different visits shall be executed within the same visibility window.

Due to HST entering the safe mode in Oct. 2021 just before these observations were planned to execute, the exposure times were slightly shortened

#### Reduced gyro operations

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This program targets only a single object and requires a certain ORIENT range for the long-slit observations and, hence, has a limited number of observing opportunities per year. Reduced gyro operations may make the requested ORIENT ranges unschedulable. Increased power in the PSF wings is not considered very relevant for this program.

#### FUV data

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6 identical 2 orbit visits with STIS-MAMA and the G140M grating (CENWAVE=1540). During both of the two orbits, we will use the 52x0.1D1 and 52x0.5D1 slits to cover different sky regions. We opt for this setup to mitigate issue due to potential minor source variability.

The flux in the G140M grating with CENWAVE=1540 is dominated by C IV and H2 emission and previous observations allow us to estimate the expected count rates (cf. ETC run STIS.sp.1345817 for the dim state and STIS.sp.1339668 for the bright state). The 52x0.5D1 slit captures about 50% more photons than 52x0.1D1 (see STIS.sp.1345818)

#### Detector safety

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Previous COS observations of AA Tau allow us to demonstrate that the expected global (160 cts/s) and local count rates (0.01 cts/s) are well below safety limits. In fact, the detector can tolerate 100 fold increase in FUV

flux even w.r.t. the bright state; ETC-run: STIS.sp.1339668.

BOT has been run and does not report unsafe targets.

#### Optical data

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The optical data consists of a series of five long-slit exposures separated by 0.1 arcsec using the 52x0.1 slit oriented along the jet axis. Five different slit positions (stepped perpendicular to the jet) will cover the same spatial region as the FUV data.

To reduce the number of orbits per visits while maintaining that each visit covers all 5 slit positions, three different visits were constructed: one 2 orbit visit with 3/2 slit positions per orbit, one 2 orbit visit with 2/3 slit positions per orbit and, finally, one 1 orbit visit with all 5 slit positions. This setup balances scheduling flexibility while simultaneously still maintaining a low number of readouts per slit position.

We use the STIS G750M grating with CENWAVE=6581 to spatially resolve key lines (H $\alpha$ , [O I], [S II], [N II]). Line fluxes have been estimated from a flux calibrated ESO/VLT Xshooter spectrum (Bouvier et al. 2013). We use fluxes of  $2.0 \times 10^{-14}$  erg/s/cm<sup>2</sup> for [O I] 6300 AA and  $1.4 \times 10^{-15}$  erg/s/cm<sup>2</sup> for [S II] 6716 AA; see STIS.sp.1345844 where we additionally assumed that the jet's H $\alpha$  emission is  $3 \times 10^{-14}$  erg/s/cm<sup>2</sup>.

#### Target Acquisition

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We use the same setup as previous successful acquisitions (F28x50LP), but with a slightly increased exposure time (1.2 s). We estimate that this

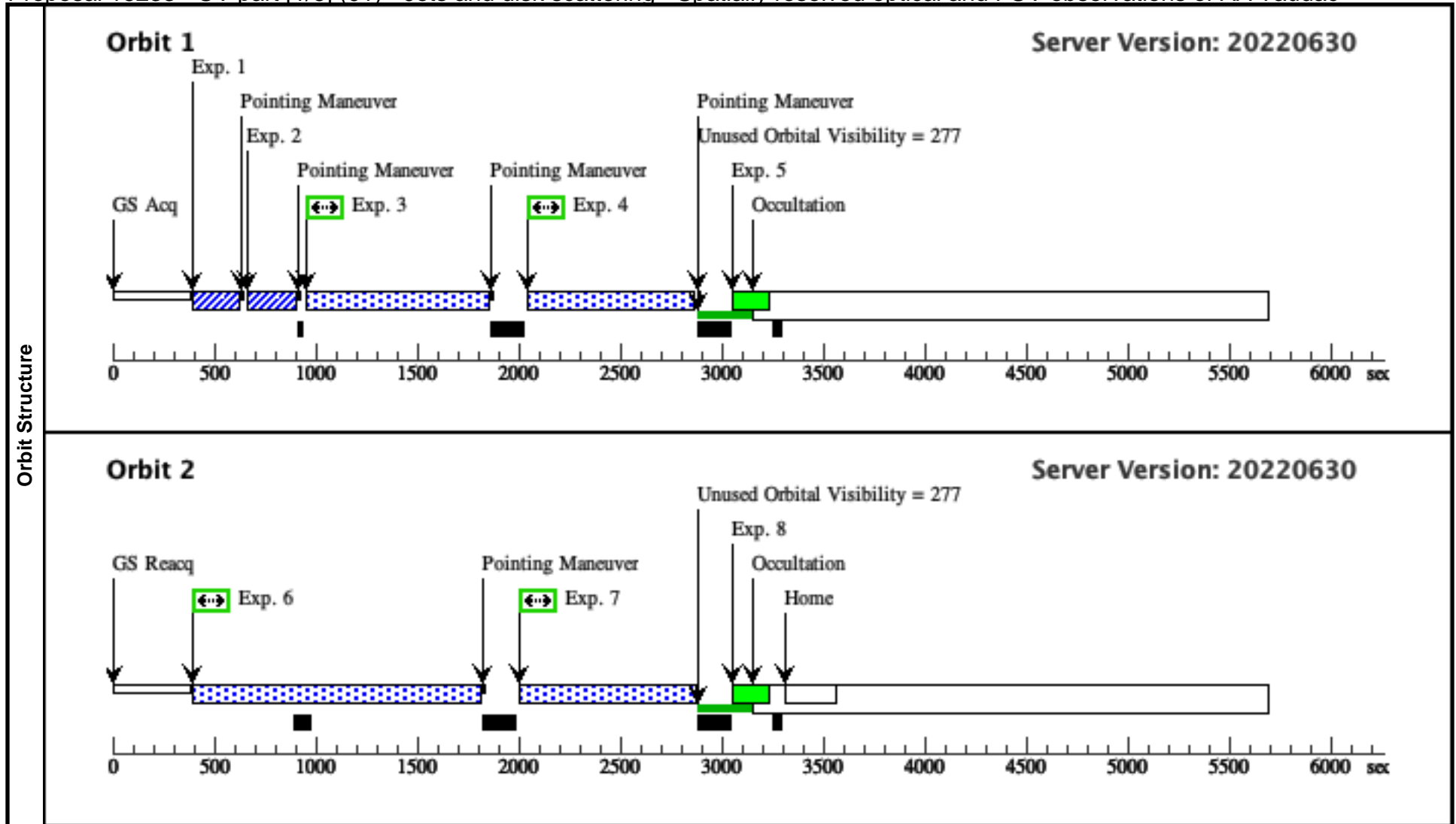
exposure time is sufficient to acquire the target even for the dimmest ever observed target brightness while still avoiding saturation for bright state conditions.

The target confirmation chart has been reviewed and shows the target well centered.

Proposal 16233 - UV part [1/6] (01) - Jets and disk scattering - Spatially resolved optical and FUV observations of AA Taudac

Tue Nov 08 21:00:51 GMT 2022

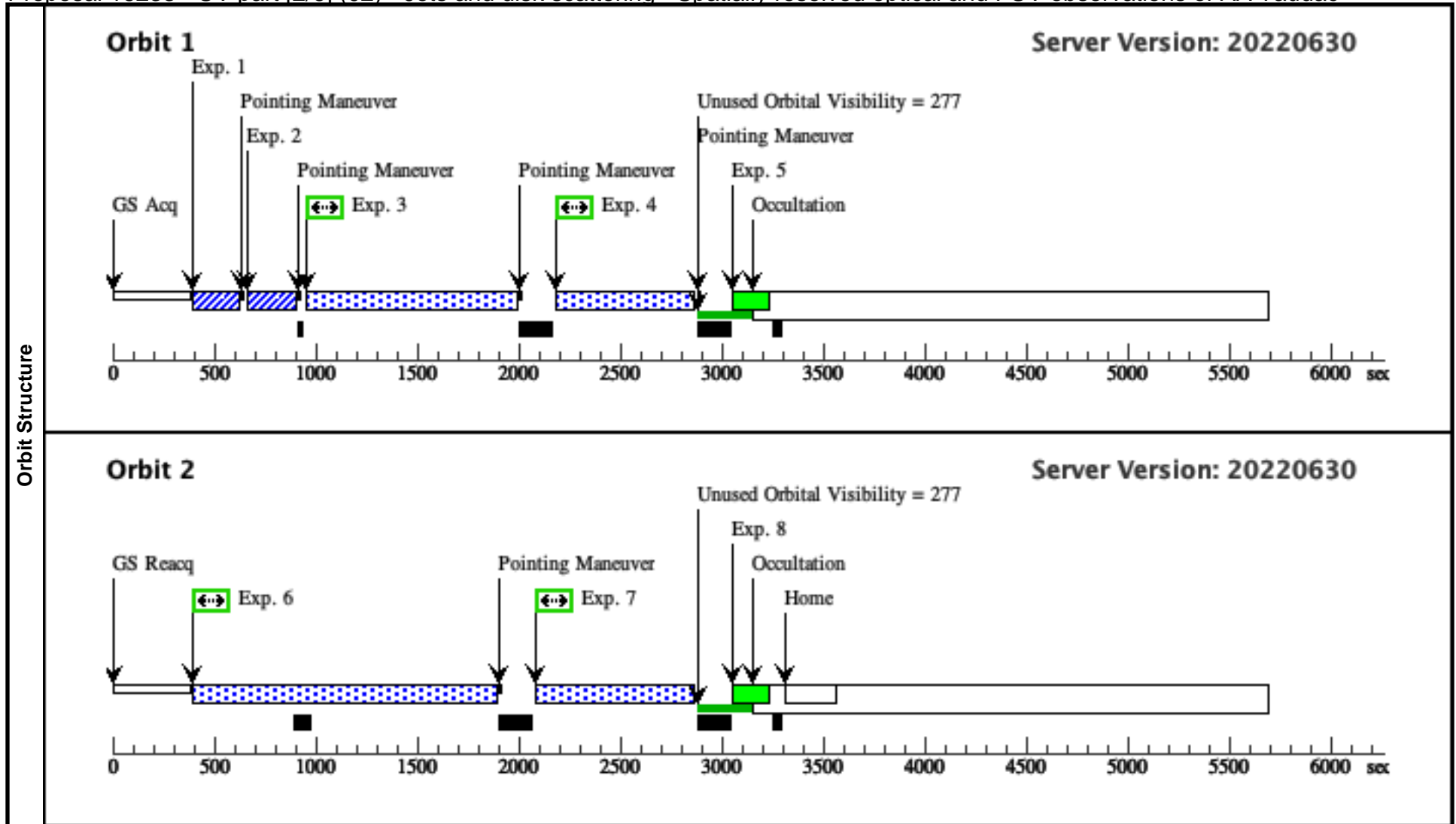
Visit	<b>Proposal 16233, UV part [1/6] (01), scheduled</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: ORIENT 226D TO 230 D; ORIENT 46D TO 50 D; SEQ 01,02,03,04,05,06,07,08,09 WITHIN 30 D Comments: Long slit observation with two slit widths per orbit. This setup enables us to monitor variability between the two slit widths. All UV orbits are identical.																																																																																																			
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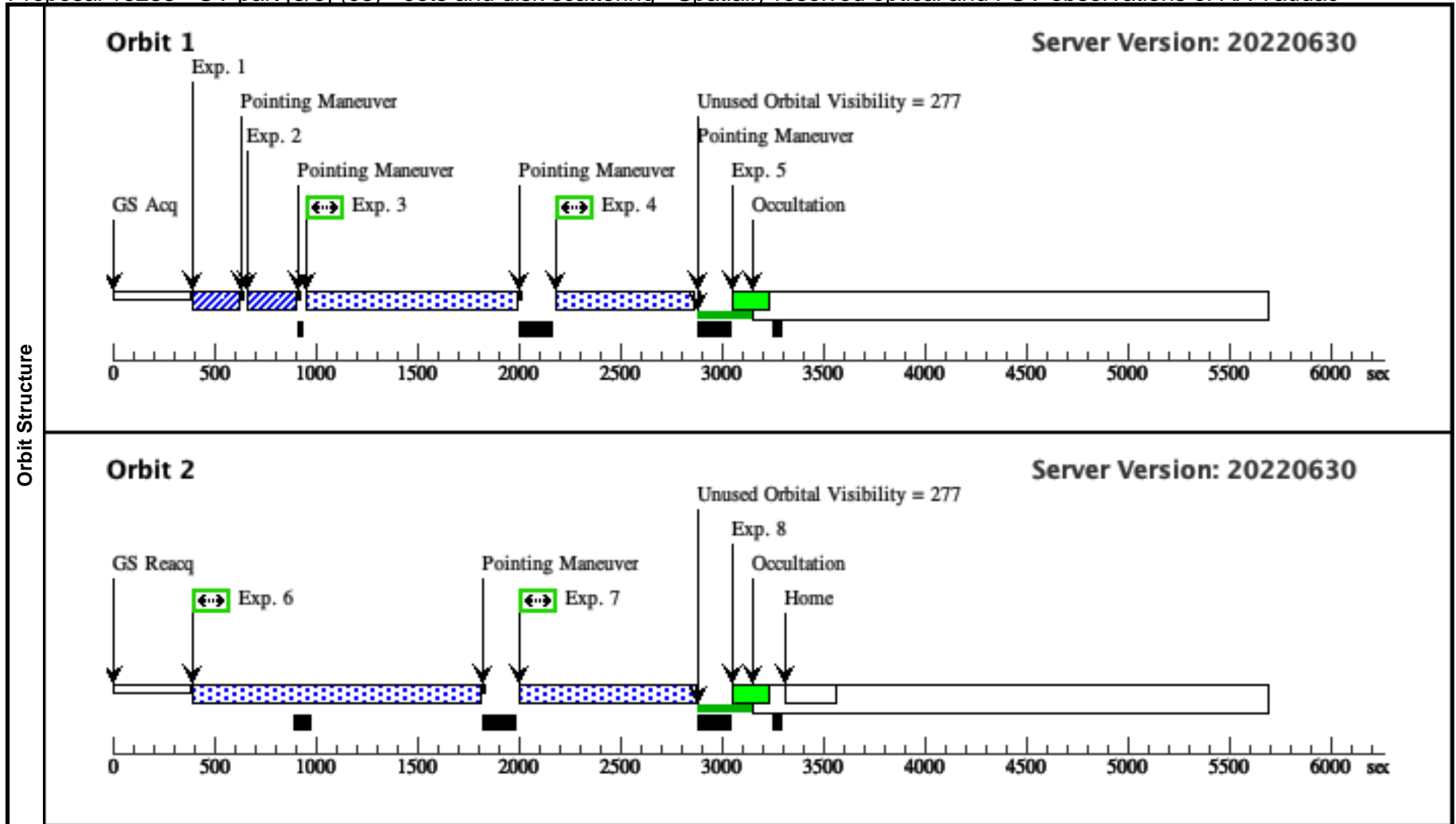
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Proposal 16233 - UV part [3/6] (03) - Jets and disk scattering - Spatially resolved optical and FUV observations of AA Taudac

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	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>V-AA-TAU</td> <td>RA: 04 34 55.4262 (68.7309425d) Dec: +24 28 52.71 (24.48131d) Equinox: J2000</td> <td>Proper Motion RA: 2.5513777869542076E-4 sec of time/yr Proper Motion Dec: -0.020987000016248203 arcsec/yr Epoch of Position: 2015.5</td> <td>V=12.2</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                      Category=STAR                      Description=[JET, K V-IV, PROTOPLANETARY DISK, T TAURI STAR]                      Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	V-AA-TAU	RA: 04 34 55.4262 (68.7309425d) Dec: +24 28 52.71 (24.48131d) Equinox: J2000	Proper Motion RA: 2.5513777869542076E-4 sec of time/yr Proper Motion Dec: -0.020987000016248203 arcsec/yr Epoch of Position: 2015.5	V=12.2
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																	
(1)	V-AA-TAU	RA: 04 34 55.4262 (68.7309425d) Dec: +24 28 52.71 (24.48131d) Equinox: J2000	Proper Motion RA: 2.5513777869542076E-4 sec of time/yr Proper Motion Dec: -0.020987000016248203 arcsec/yr Epoch of Position: 2015.5	V=12.2	Reference Frame: ICRS																	
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit												
	1	(STIS.ta.149 1480)	(1) V-AA-TAU	STIS/CCD, ACQ, F28X50LP	MIRROR				1.3 Secs (1.3 Secs) [==>]	[1]												
	2	(STIS.ta.149 2138)	(1) V-AA-TAU	STIS/CCD, ACQ/PEAK, 52X0.1D1	MIRROR				2 Secs (2 Secs) [==>]	[1]												
	3	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.1D1	G140M 1540 A		BUFFER-TIME=50 0; WAVECAL=NO		1200 Secs (900 Secs) [==>900.0 Secs ]	[1]												
	4	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1540 A		BUFFER-TIME=50 0		1200 Secs (619 Secs) [==>619.0 Secs ]	[1]												
	5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1540 A				[==>]	[1]												
	6	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.1D1	G140M 1540 A		BUFFER-TIME=50 0; WAVECAL=NO		1200 Secs (1400 Secs) [==>1400.0 Secs ]	[2]												
	7	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1540 A		BUFFER-TIME=50 0		1200 Secs (804 Secs) [==>804.0 Secs ]	[2]												
	8		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1540 A				[==>]	[2]												



Proposal 16233 - UV part [4/6] (04) - Jets and disk scattering - Spatially resolved optical and FUV observations of AA Taudac

Tue Nov 08 21:00:52 GMT 2022

**Visit**  
**Proposal 16233, UV part [4/6] (04), scheduling**  
**Diagnostic Status: No Diagnostics**  
 Scientific Instruments: STIS/CCD, STIS/FUV-MAMA  
 Special Requirements: ORIENT 226D TO 230 D; ORIENT 46D TO 50 D; SEQ 01,02,03,04,05,06,07,08,09 WITHIN 30 D  
 Comments: Long slit observation with two slit widths per orbit. This setup enables us to monitor variability between the two slit widths.  
 All UV orbits are identical.

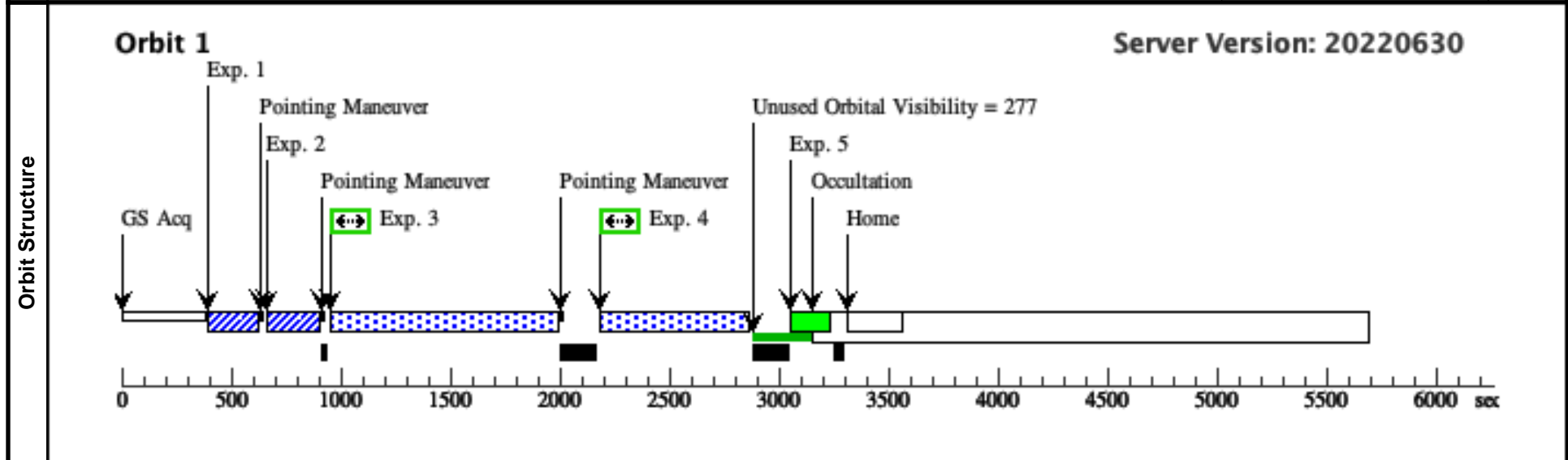
**Fixed Targets**

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-AA-TAU	RA: 04 34 55.4262 (68.7309425d) Dec: +24 28 52.71 (24.48131d) Equinox: J2000	Proper Motion RA: 2.5513777869542076E-4 sec of time/yr Proper Motion Dec: -0.020987000016248203 arcsec/yr Epoch of Position: 2015.5	V=12.2	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.  
 Category=STAR  
 Description=[JET, K V-IV, PROTOPLANETARY DISK, T TAURI STAR]  
 Extended=NO

**Exposures**

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(STIS.ta.149 (1) V-AA-TAU 1480)	(1) V-AA-TAU	STIS/CCD, ACQ, F28X50LP	MIRROR				1.3 Secs (1.3 Secs) [==>]	[1]
2	(STIS.ta.149 (1) V-AA-TAU 2138)	(1) V-AA-TAU	STIS/CCD, ACQ/PEAK, 52X0.1D1	MIRROR				2 Secs (2 Secs) [==>]	[1]
3	(STIS.sp.13 (1) V-AA-TAU 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.1D1	G140M 1540 A	BUFFER-TIME=50 0;			1200 Secs (900 Secs) [==>900.0 Secs ]	[1]
4	(STIS.sp.13 (1) V-AA-TAU 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1540 A	BUFFER-TIME=50 0			1200 Secs (619 Secs) [==>619.0 Secs ]	[1]
5	WAVE	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1540 A				[==>]	[1]



Proposal 16233 - UV part [4/6] B (4B) - Jets and disk scattering - Spatially resolved optical and FUV observations of AA Taudac

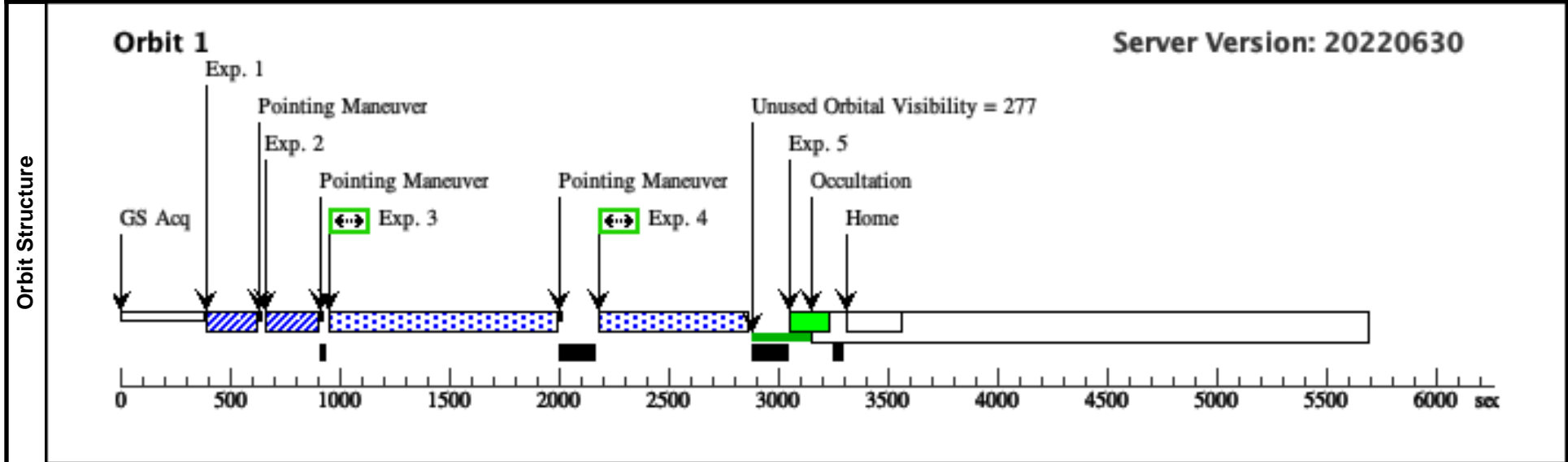
Tue Nov 08 21:00:52 GMT 2022

**Visit**  
**Proposal 16233, UV part [4/6] B (4B)**  
**Diagnostic Status: No Diagnostics**  
 Scientific Instruments: STIS/CCD, STIS/FUV-MAMA  
 Special Requirements: ORIENT 226D TO 230 D; ORIENT 46D TO 50 D  
*Comments: Long slit observation with two slit widths per orbit. This setup enables us to monitor variability between the two slit widths.*  
*All UV orbits are identical.*

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-AA-TAU	RA: 04 34 55.4262 (68.7309425d) Dec: +24 28 52.71 (24.48131d) Equinox: J2000	Proper Motion RA: 2.5513777869542076E-4 sec of time/yr Proper Motion Dec: -0.020987000016248203 arcsec/yr Epoch of Position: 2015.5	V=12.2	Reference Frame: ICRS

*Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.*  
 Category=STAR  
 Description=[JET, K V-IV, PROTOPLANETARY DISK, T TAURI STAR]  
 Extended=NO

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(STIS.ta.149 1480)	(1) V-AA-TAU	STIS/CCD, ACQ, F28X50LP	MIRROR				1.3 Secs (1.3 Secs) [==>]	[1]
2	(STIS.ta.149 2138)	(1) V-AA-TAU	STIS/CCD, ACQ/PEAK, 52X0.1D1	MIRROR				2 Secs (2 Secs) [==>]	[1]
3	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.1D1	G140M 1540 A	BUFFER-TIME=50 0;			1200 Secs (900 Secs) [==>900.0 Secs ]	[1]
4	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1540 A	BUFFER-TIME=50 0			1200 Secs (619 Secs) [==>619.0 Secs ]	[1]
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1540 A				[==>]	[1]



Proposal 16233 - UV part [5/6] (05) - Jets and disk scattering - Spatially resolved optical and FUV observations of AA Taudac

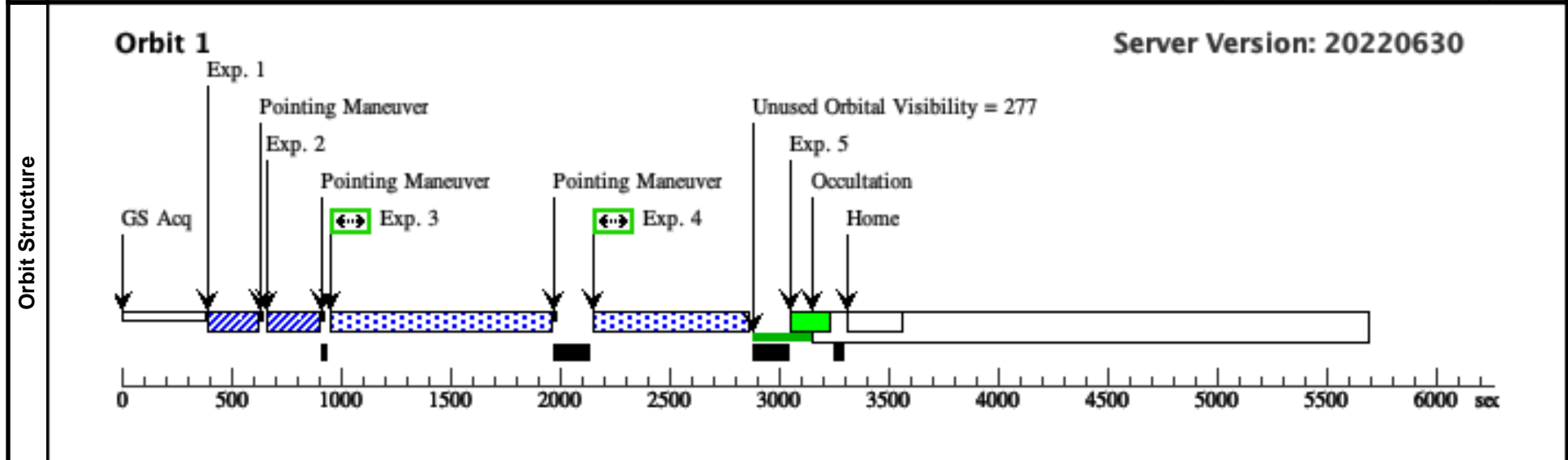
Tue Nov 08 21:00:52 GMT 2022

**Visit**  
**Proposal 16233, UV part [5/6] (05), scheduling**  
**Diagnostic Status: No Diagnostics**  
 Scientific Instruments: STIS/CCD, STIS/FUV-MAMA  
 Special Requirements: ORIENT 226D TO 230 D; ORIENT 46D TO 50 D; SEQ 01,02,03,04,05,06,07,08,09 WITHIN 30 D  
*Comments: Long slit observation with two slit widths per orbit. This setup enables us to monitor variability between the two slit widths.*  
*All UV orbits are identical.*

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-AA-TAU	RA: 04 34 55.4262 (68.7309425d) Dec: +24 28 52.71 (24.48131d) Equinox: J2000	Proper Motion RA: 2.5513777869542076E-4 sec of time/yr Proper Motion Dec: -0.020987000016248203 arcsec/yr Epoch of Position: 2015.5	V=12.2	Reference Frame: ICRS

*Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.*  
 Category=STAR  
 Description=[JET, K V-IV, PROTOPLANETARY DISK, T TAURI STAR]  
 Extended=NO

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(STIS.ta.149 1480)	(1) V-AA-TAU	STIS/CCD, ACQ, F28X50LP	MIRROR				1.3 Secs (1.3 Secs) [==>]	[1]
2	(STIS.ta.149 2138)	(1) V-AA-TAU	STIS/CCD, ACQ/PEAK, 52X0.1D1	MIRROR				2 Secs (2 Secs) [==>]	[1]
3	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.1D1	G140M 1540 A	BUFFER-TIME=50 0;			1200 Secs (869 Secs) [==>869.0 Secs ]	[1]
4	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1540 A	BUFFER-TIME=50 0			1200 Secs (650 Secs) [==>650.0 Secs ]	[1]
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1540 A				[==>]	[1]



Proposal 16233 - UV part [5/6] B (5B) - Jets and disk scattering - Spatially resolved optical and FUV observations of AA Taudac

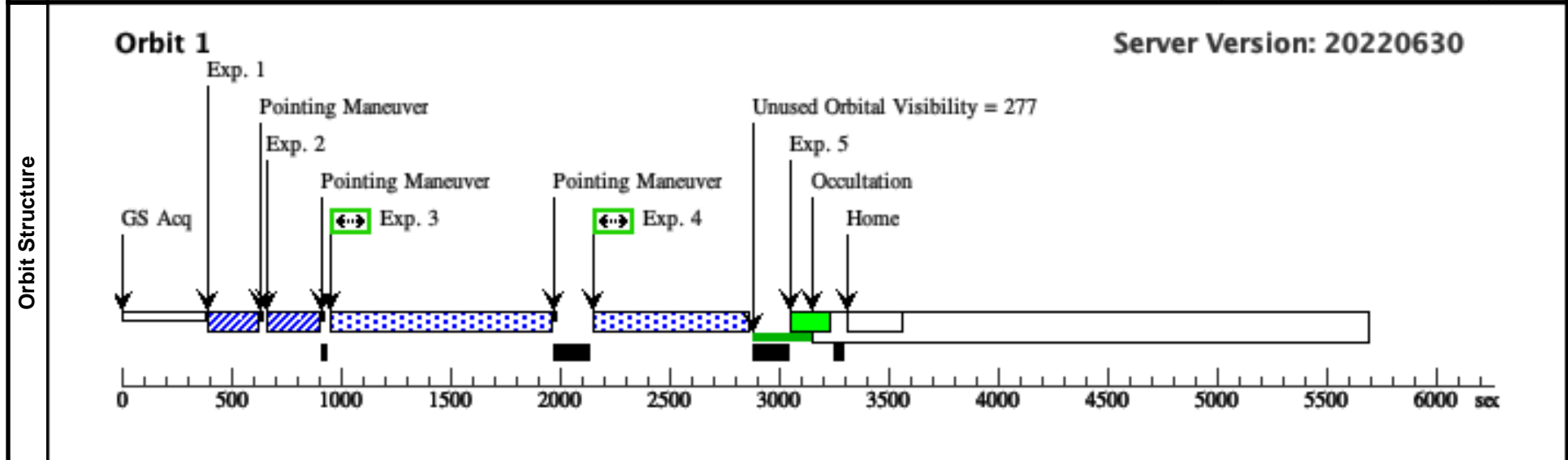
Tue Nov 08 21:00:52 GMT 2022

**Visit**  
**Proposal 16233, UV part [5/6] B (5B)**  
**Diagnostic Status: No Diagnostics**  
 Scientific Instruments: STIS/CCD, STIS/FUV-MAMA  
 Special Requirements: ORIENT 226D TO 230 D; ORIENT 46D TO 50 D  
 Comments: Long slit observation with two slit widths per orbit. This setup enables us to monitor variability between the two slit widths.  
 All UV orbits are identical.

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-AA-TAU	RA: 04 34 55.4262 (68.7309425d) Dec: +24 28 52.71 (24.48131d) Equinox: J2000	Proper Motion RA: 2.5513777869542076E-4 sec of time/yr Proper Motion Dec: -0.020987000016248203 arcsec/yr Epoch of Position: 2015.5	V=12.2	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.  
 Category=STAR  
 Description=[JET, K V-IV, PROTOPLANETARY DISK, T TAURI STAR]  
 Extended=NO

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(STIS.ta.149 1480)	(1) V-AA-TAU	STIS/CCD, ACQ, F28X50LP	MIRROR				1.3 Secs (1.3 Secs) [==>]	[1]
2	(STIS.ta.149 2138)	(1) V-AA-TAU	STIS/CCD, ACQ/PEAK, 52X0.1D1	MIRROR				2 Secs (2 Secs) [==>]	[1]
3	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.1D1	G140M 1540 A	BUFFER-TIME=50 0;			1200 Secs (869 Secs) [==>869.0 Secs ]	[1]
4	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1540 A	BUFFER-TIME=50 0			1200 Secs (650 Secs) [==>650.0 Secs ]	[1]
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1540 A				[==>]	[1]



Proposal 16233 - UV part [6/6] (06) - Jets and disk scattering - Spatially resolved optical and FUV observations of AA Taudac

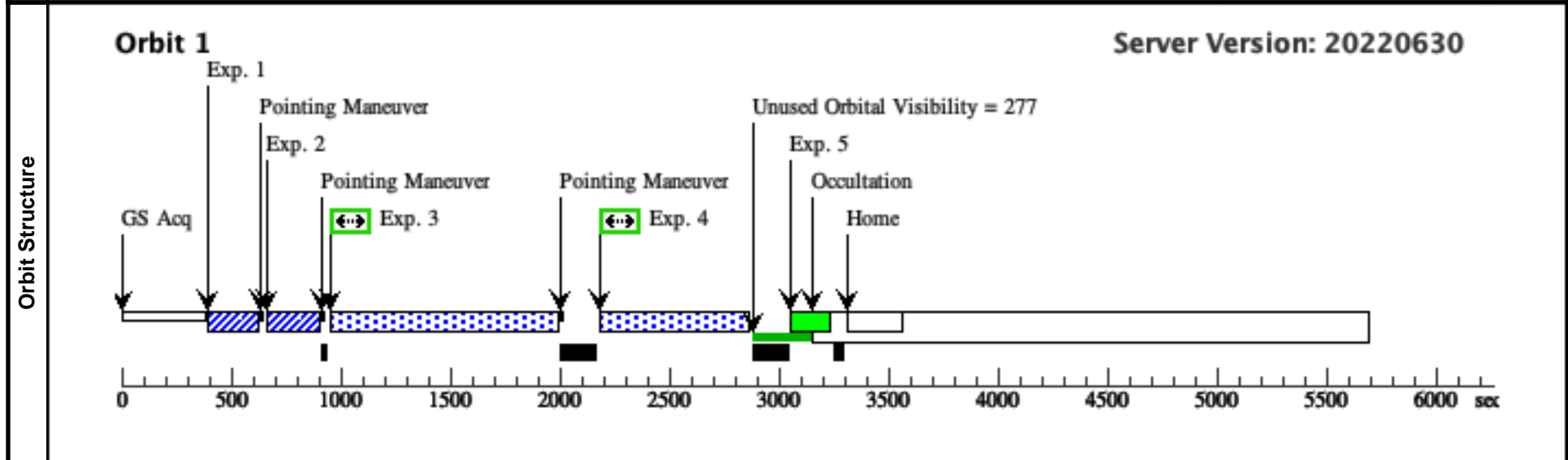
Tue Nov 08 21:00:52 GMT 2022

**Visit**  
**Proposal 16233, UV part [6/6] (06), scheduling**  
**Diagnostic Status: No Diagnostics**  
 Scientific Instruments: STIS/CCD, STIS/FUV-MAMA  
 Special Requirements: ORIENT 226D TO 230 D; ORIENT 46D TO 50 D; SEQ 01,02,03,04,05,06,07,08,09 WITHIN 30 D  
*Comments: Long slit observation with two slit widths per orbit. This setup enables us to monitor variability between the two slit widths.*  
*All UV orbits are identical.*

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-AA-TAU	RA: 04 34 55.4262 (68.7309425d) Dec: +24 28 52.71 (24.48131d) Equinox: J2000	Proper Motion RA: 2.5513777869542076E-4 sec of time/yr Proper Motion Dec: -0.020987000016248203 arcsec/yr Epoch of Position: 2015.5	V=12.2	Reference Frame: ICRS

*Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.*  
 Category=STAR  
 Description=[JET, K V-IV, PROTOPLANETARY DISK, T TAURI STAR]  
 Extended=NO

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(STIS.ta.149 1480)	(1) V-AA-TAU	STIS/CCD, ACQ, F28X50LP	MIRROR				1.3 Secs (1.3 Secs) [==>]	[1]
2	(STIS.ta.149 2138)	(1) V-AA-TAU	STIS/CCD, ACQ/PEAK, 52X0.1D1	MIRROR				2 Secs (2 Secs) [==>]	[1]
3	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.1D1	G140M 1540 A	BUFFER-TIME=50 0;			1200 Secs (900 Secs) [==>900.0 Secs ]	[1]
4	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1540 A	BUFFER-TIME=50 0			1200 Secs (619 Secs) [==>619.0 Secs ]	[1]
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1540 A				[==>]	[1]



Proposal 16233 - UV part [6/6] B (6B) - Jets and disk scattering - Spatially resolved optical and FUV observations of AA Taudac

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**Visit**  
**Proposal 16233, UV part [6/6] B (6B)**  
**Diagnostic Status: No Diagnostics**  
 Scientific Instruments: STIS/CCD, STIS/FUV-MAMA  
 Special Requirements: ORIENT 226D TO 230 D; ORIENT 46D TO 50 D  
 Comments: Long slit observation with two slit widths per orbit. This setup enables us to monitor variability between the two slit widths.  
 All UV orbits are identical.

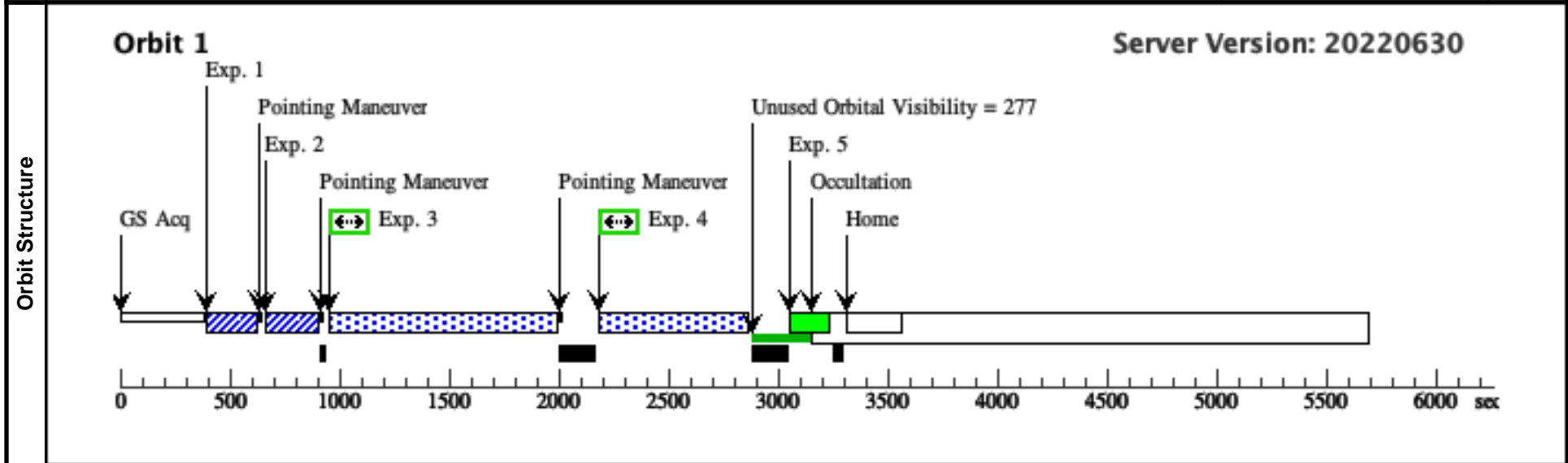
**Fixed Targets**

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-AA-TAU	RA: 04 34 55.4262 (68.7309425d) Dec: +24 28 52.71 (24.48131d) Equinox: J2000	Proper Motion RA: 2.5513777869542076E-4 sec of time/yr Proper Motion Dec: -0.020987000016248203 arcsec/yr Epoch of Position: 2015.5	V=12.2	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.  
 Category=STAR  
 Description=[JET, K V-IV, PROTOPLANETARY DISK, T TAURI STAR]  
 Extended=NO

**Exposures**

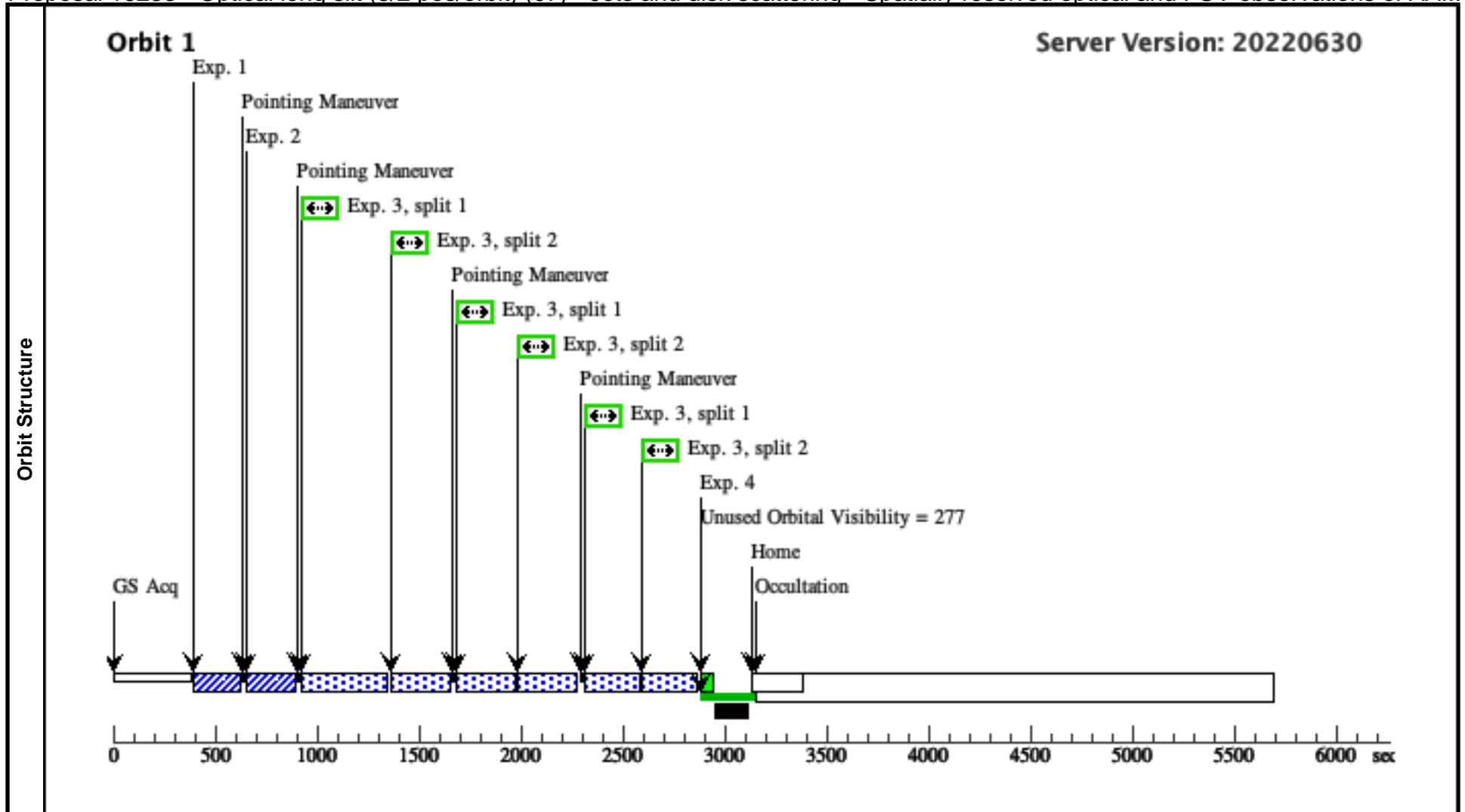
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(STIS.ta.149 1480)	(1) V-AA-TAU	STIS/CCD, ACQ, F28X50LP	MIRROR				1.3 Secs (1.3 Secs) [==>]	[1]
2	(STIS.ta.149 2138)	(1) V-AA-TAU	STIS/CCD, ACQ/PEAK, 52X0.1D1	MIRROR				2 Secs (2 Secs) [==>]	[1]
3	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.1D1	G140M 1540 A	BUFFER-TIME=50 0;	WAVECAL=NO		1200 Secs (900 Secs) [==>900.0 Secs ]	[1]
4	(STIS.sp.13 45817)	(1) V-AA-TAU	STIS/FUV-MAMA, TIME-TAG, 52X0.5D1	G140M 1540 A	BUFFER-TIME=50 0			1200 Secs (619 Secs) [==>619.0 Secs ]	[1]
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1540 A				[==>]	[1]



Proposal 16233 - Optical long slit (3/2 pos/orbit) (07) - Jets and disk scattering - Spatially resolved optical and FUV observations of AA...

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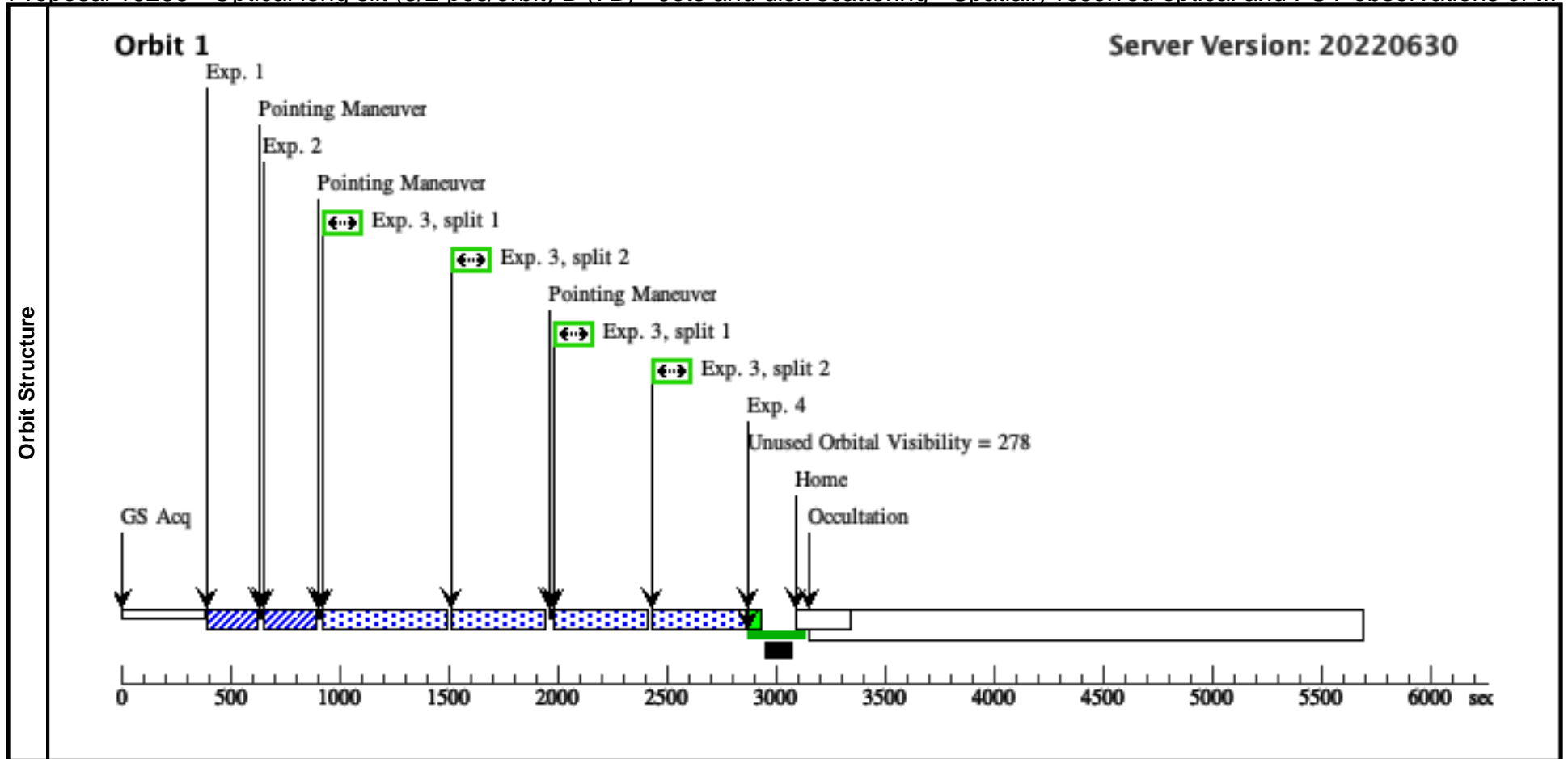
<b>Visit</b>	<b>Proposal 16233, Optical long slit (3/2 pos/orbit) (07), scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/CCD Special Requirements: ORIENT 226D TO 230 D; ORIENT 46D TO 50 D; SEQ 01,02,03,04,05,06,07,08,09 WITHIN 30 D Comments: Part 1/3 for the optical data 2 orbit visit with 3 slit positions in the first orbit and 2 slit positions in the second.										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>	
(3)		Pattern Type=STIS-PERP-TO-SLIT    Coordinate Frame=POS-TARG Purpose=MOSAIC    Pattern Orientation=0.0 Number Of Points=3    Angle Between Sides= Point Spacing=0.2    Center Pattern=true Line Spacing=							(3)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>					
	(1)	V-AA-TAU	RA: 04 34 55.4262 (68.7309425d) Dec: +24 28 52.71 (24.48131d) Equinox: J2000	Proper Motion RA: 2.5513777869542076E-4 sec of time/yr Proper Motion Dec: -0.020987000016248203 arcsec/yr Epoch of Position: 2015.5	V=12.2	Reference Frame: ICRS					
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[JET, K V-IV, PROTOPLANETARY DISK, T TAURI STAR] Extended=NO											
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>		<b>Orbit</b>
	1	(STIS.ta.149 1480)	(1) V-AA-TAU	STIS/CCD, ACQ, F28X50LP	MIRROR				1.3 Secs (1.3 Secs)		
									[==>]		[1]
	2	(STIS.ta.149 2138)	(1) V-AA-TAU	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				2 Secs (2 Secs)		
									[==>]		[1]
	3		(1) V-AA-TAU	STIS/CCD, ACCUM, 52X0.1	G750M 6581 A	WAVECAL=NO		Pattern 3, Exps 3-3 i n Optical long slit (3/ 2 pos/orbit) (07) (3)	342 Secs (1495 Secs)		
								[==>255.0 Secs (Pattern 1, Split 1)] [==>255.0 Secs (Pattern 1, Split 2)] [==>255.0 Secs (Pattern 2, Split 1)] [==>256.0 Secs (Pattern 2, Split 2)] [==>237.0 Secs (Pattern 3, Split 1)] [==>237.0 Secs (Pattern 3, Split 2)]		[1]	
4		WAVE	STIS/CCD, ACCUM, 52X0.1	G750M 6581 A				[==>]		[1]	



Proposal 16233 - Optical long slit (3/2 pos/orbit) B (7B) - Jets and disk scattering - Spatially resolved optical and FUV observations of ...

Tue Nov 08 21:00:52 GMT 2022

<b>Visit</b>	<b>Proposal 16233, Optical long slit (3/2 pos/orbit) B (7B)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/CCD Special Requirements: ORIENT 226D TO 230 D; ORIENT 46D TO 50 D Comments: Part 1/3 for the optical data 2 orbit visit with 3 slit positions in the first orbit and 2 slit positions in the second.									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			
(2)		Pattern Type=STIS-PERP-TO-SLIT    Coordinate Frame=POS-TARG Purpose=MOSAIC    Pattern Orientation=0.0 Number Of Points=2    Angle Between Sides= Point Spacing=0.2    Center Pattern=true Line Spacing=								(3)
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	V-AA-TAU	RA: 04 34 55.4262 (68.7309425d) Dec: +24 28 52.71 (24.48131d) Equinox: J2000	Proper Motion RA: 2.5513777869542076E-4 sec of time/yr Proper Motion Dec: -0.020987000016248203 arcsec/yr Epoch of Position: 2015.5	V=12.2	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[JET, K V-IV, PROTOPLANETARY DISK, T TAURI STAR] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(STIS.ta.149 1480)	(1) V-AA-TAU	STIS/CCD, ACQ, F28X50LP	MIRROR				1.3 Secs (1.3 Secs)	
									[==>]	[1]
	2	(STIS.ta.149 2138)	(1) V-AA-TAU	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				2 Secs (2 Secs)	
									[==>]	[1]
3		(1) V-AA-TAU	STIS/CCD, ACCUM, 52X0.1	G750M 6581 A	WAVECAL=NO		Pattern 2, Exps 3-3 in Optical long slit (3/2 pos/orbit) B (7B) (2)	342 Secs (1608 Secs)		
								[==>402.0 Secs (Pattern 1, Split 1)]		
								[==>402.0 Secs (Pattern 1, Split 2)]		
								[==>402.0 Secs (Pattern 2, Split 1)]		
								[==>402.0 Secs (Pattern 2, Split 2)]	[1]	
4		WAVE	STIS/CCD, ACCUM, 52X0.1	G750M 6581 A				[==>]	[1]	



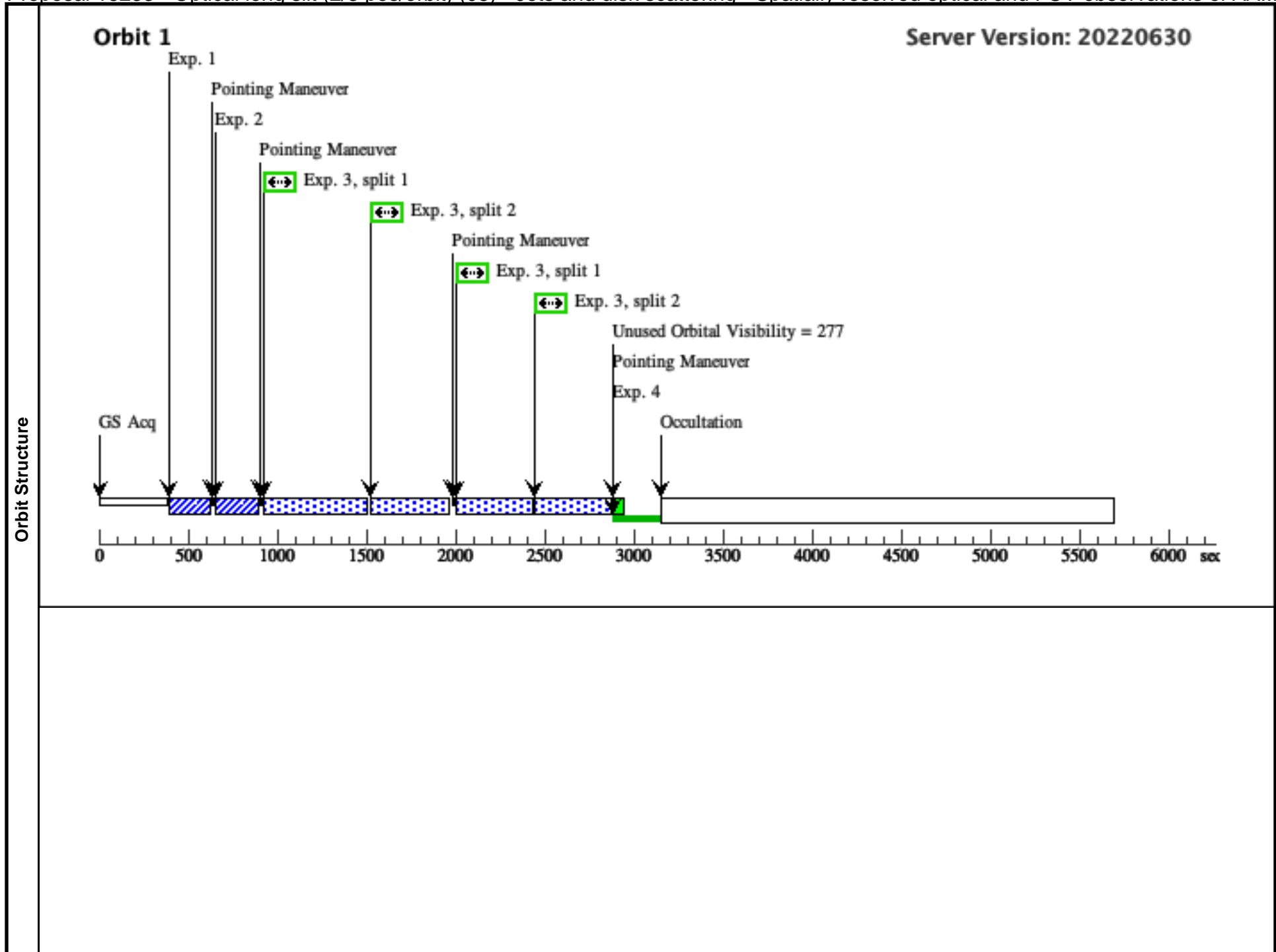
Proposal 16233 - Optical long slit (2/3 pos/orbit) (08) - Jets and disk scattering - Spatially resolved optical and FUV observations of AA...

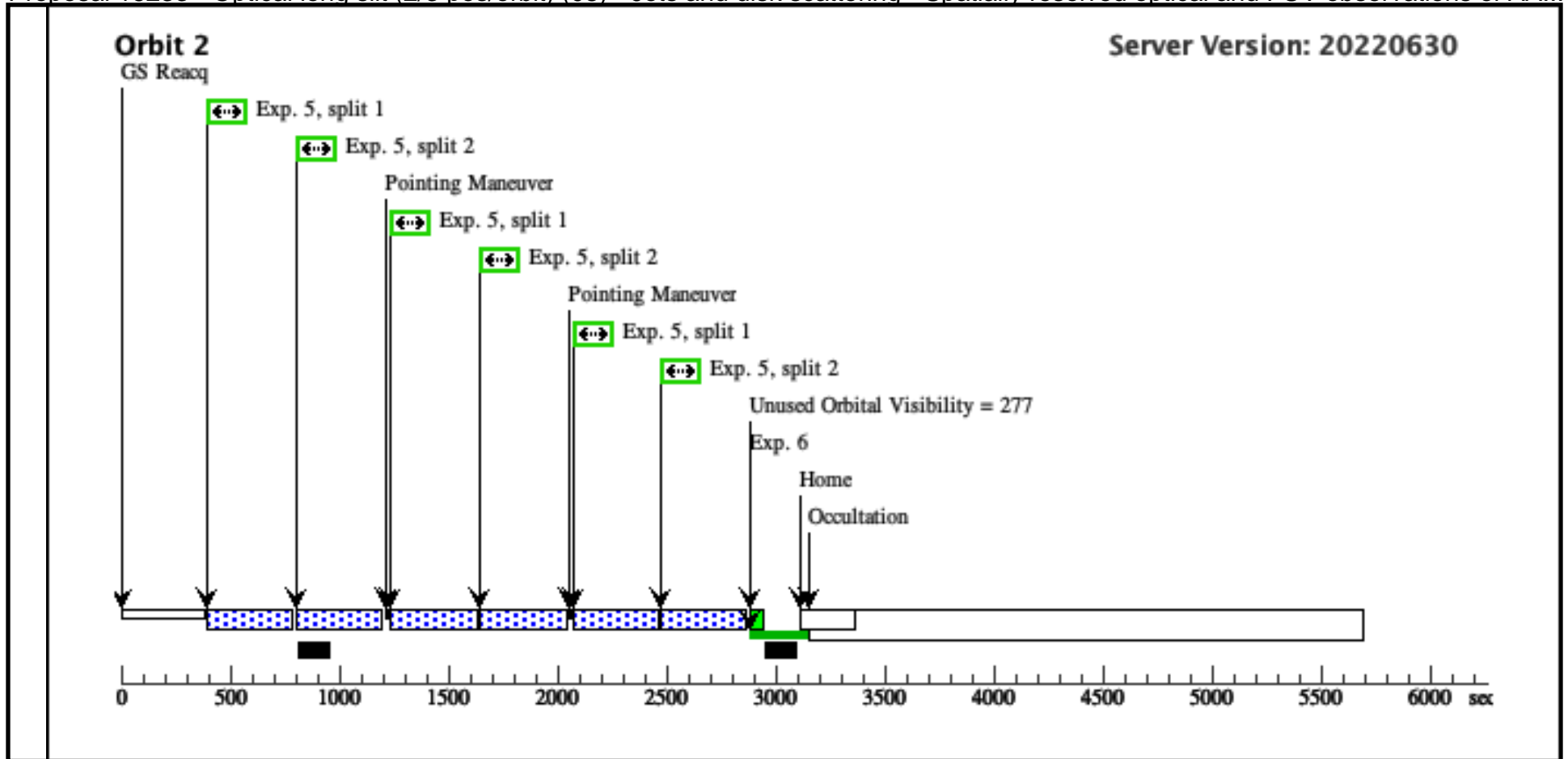
Tue Nov 08 21:00:52 GMT 2022

<b>Visit</b>	<b>Proposal 16233, Optical long slit (2/3 pos/orbit) (08), scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/CCD Special Requirements: ORIENT 226D TO 230 D; ORIENT 46D TO 50 D; SEQ 01,02,03,04,05,06,07,08,09 WITHIN 30 D Comments: Part 2/3 for the optical data 2 orbit visit with 2 slit positions in the first orbit and 3 slit positions in the second.					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
	(2)	Pattern Type=STIS-PERP-TO-SLIT Purpose=MOSAIC Number Of Points=2 Point Spacing=0.2 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=true	(3)		
	(3)	Pattern Type=STIS-PERP-TO-SLIT Purpose=MOSAIC Number Of Points=3 Point Spacing=0.2 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=true	(5)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	V-AA-TAU	RA: 04 34 55.4262 (68.7309425d) Dec: +24 28 52.71 (24.48131d) Equinox: J2000	Proper Motion RA: 2.5513777869542076E-4 sec of time/yr Proper Motion Dec: -0.020987000016248203 arcsec/yr Epoch of Position: 2015.5	V=12.2	Reference Frame: ICRS
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[JET, K V-IV, PROTOPLANETARY DISK, T TAURI STAR] Extended=NO					

Proposal 16233 - Optical long slit (2/3 pos/orbit) (08) - Jets and disk scattering - Spatially resolved optical and FUV observations of AA...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) V-AA-TAU	STIS/CCD, ACQ, F28X50LP	MIRROR				1.3 Secs (1.3 Secs) [==>]	[1]
	2	(STIS.ta.149 2138)	(1) V-AA-TAU	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				2 Secs (2 Secs) [==>]	[1]
	3		(1) V-AA-TAU	STIS/CCD, ACCUM, 52X0.1	G750M 6581 A	WAVECAL=NO		Pattern 2, Exps 3-3 i n Optical long slit (2/ 3 pos/orbit) (08) (2)	342 Secs (1609 Secs) [==>411.0 Secs (Pattern 1, Split 1)] [==>412.0 Secs (Pattern 1, Split 2)] [==>393.0 Secs (Pattern 2, Split 1)] [==>393.0 Secs (Pattern 2, Split 2)]	[1]
	4		WAVE	STIS/CCD, ACCUM, 52X0.1	G750M 6581 A				[==>]	[1]
	5		(1) V-AA-TAU	STIS/CCD, ACCUM, 52X0.1	G750M 6581 A	WAVECAL=NO		Pattern 3, Exps 5-5 i n Optical long slit (2/ 3 pos/orbit) (08) (3)	342 Secs (2166 Secs) [==>362.0 Secs (Pattern 1, Split 1)] [==>362.0 Secs (Pattern 1, Split 2)] [==>363.0 Secs (Pattern 2, Split 1)] [==>363.0 Secs (Pattern 2, Split 2)] [==>358.0 Secs (Pattern 3, Split 1)] [==>358.0 Secs (Pattern 3, Split 2)]	[2]
	6		WAVE	STIS/CCD, ACCUM, 52X0.1	G750M 6581 A				[==>]	[2]





Proposal 16233 - Optical long slit (5 pos in 1 orbit) (09) - Jets and disk scattering - Spatially resolved optical and FUV observations of ...

Tue Nov 08 21:00:52 GMT 2022

<b>Visit</b>	<b>Proposal 16233, Optical long slit (5 pos in 1 orbit) (09), scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/CCD Special Requirements: ORIENT 226D TO 230 D; ORIENT 46D TO 50 D; SEQ 01,02,03,04,05,06,07,08,09 WITHIN 30 D Comments: Part 3/3 for the optical data 1 orbit visit with 5slit positions									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>
(1)		Pattern Type=STIS-PERP-TO-SLIT Purpose=MOSAIC Number Of Points=5 Point Spacing=0.1 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=true					(3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	V-AA-TAU	RA: 04 34 55.4262 (68.7309425d) Dec: +24 28 52.71 (24.48131d) Equinox: J2000	Proper Motion RA: 2.5513777869542076E-4 sec of time/yr Proper Motion Dec: -0.020987000016248203 arcsec/yr Epoch of Position: 2015.5	V=12.2	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[JET, K V-IV, PROTOPLANETARY DISK, T TAURI STAR] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(1) V-AA-TAU	(1) V-AA-TAU	STIS/CCD, ACQ, F28X50LP	MIRROR				1.3 Secs (1.3 Secs)	
									[==>]	[1]
	2	(STIS.ta.149 2138)	(1) V-AA-TAU	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				2 Secs (2 Secs)	
									[==>]	[1]
3	(1) V-AA-TAU	(1) V-AA-TAU	STIS/CCD, ACCUM, 52X0.1	G750M 6581 A	WAVECAL=NO		Pattern 1, Exps 3-3 i n Optical long slit (5 pos in 1 orbit) (09) ( 1)	342 Secs (650 Secs)		
								[==>65.0 Secs (Pattern 1, Split 1)] [==>65.0 Secs (Pattern 1, Split 2)] [==>65.0 Secs (Pattern 2, Split 1)] [==>65.0 Secs (Pattern 2, Split 2)] [==>65.0 Secs (Pattern 3, Split 1)] [==>65.0 Secs (Pattern 3, Split 2)] [==>65.0 Secs (Pattern 4, Split 1)] [==>65.0 Secs (Pattern 4, Split 2)] [==>65.0 Secs (Pattern 5, Split 1)] [==>65.0 Secs (Pattern 5, Split 2)]	[1]	
4	WAVE		STIS/CCD, ACCUM, 52X0.1	G750M 6581 A				[==>]	[1]	

