



# 17989 - Building an ANT-hill: STIS UV Follow-up of Ambiguous Nuclear Transients

Cycle: 33, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Jason Hinkle (PI) (Contact)</b>	<b>University of Illinois at Urbana - Champaign</b>
Prof. Benjamin John Shappee (CoI)	University of Hawaii
Dr. Chris S. Kochanek (CoI)	The Ohio State University
Dr. Katie Auchettl (CoI)	University of Melbourne
Dr. Krzysztof Z. Stanek (CoI)	The Ohio State University
Dr. Anna Payne (CoI)	Space Telescope Science Institute

## 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	(3) AT2024ZKR	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	17-Jul-2025 13:00:15.0	yes
02	(3) AT2024ZKR	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	17-Jul-2025 13:00:16.0	yes

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03	(2) NEW-ANT-2	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	17-Jul-2025 13:00:17.0	yes
04	(2) NEW-ANT-2	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	17-Jul-2025 13:00:17.0	yes

8 Total Orbits Used

### **ABSTRACT**

Due in large part to the rapid growth of all-sky transient surveys, a rich diversity of nuclear transients has been discovered. The two most common such transients are tidal disruption events (TDEs) and active galactic nucleus (AGN) flares. However, it has become increasingly clear that there is a growing class of nuclear flares with characteristics distinct from typical TDEs and AGNs, currently known as ambiguous nuclear transients (ANTs). These ANTs likely represent a window into a hitherto unseen or poorly understood mode of accretion onto supermassive black holes, possibly a TDE occurring within an AGN disk. Here we propose to obtain 2 epochs of STIS UV spectroscopy each for 2 newly-discovered UV-bright ANTs in Cycles 32, 33, and 34 for a total of 12 spectra of 6 ANTs. For each ANT, emission lines in the UV spectra will identify if the source is more TDE-like or AGN-like in nature, providing physical insight into the complex interplay between the existing AGN disk and the disrupted tidal debris. The UV spectra will also allow for crucial insights into outflows launched by ANTs through measurements of broad absorption lines, photoionization physics from measurements of low- and high-ionization lines, and properties of circumnuclear gas through multi-ion curve of growth analysis. Obtaining two spectra per ANT separated by roughly 100 days will probe the temporal evolution of the emitting region, which will be compared with predictions from theoretical models of TDEs in AGN disks.

### **OBSERVING DESCRIPTION**

The goal is to obtain a sequence of 2 STIS FUV-MAMA/G140L and NUV-MAMA/G230L UV spectra of two ambiguous nuclear transients (ANTs) per cycle, with a roughly 100-day spacing between the two epochs. This requires 2 orbits per spectroscopic epoch.

After identifying a UV-bright ANT (a Swift UVM2 flux above  $1e-15$  erg/s/cm<sup>2</sup>/Å), we will trigger one of our 12 ToOs (4 triggers per cycle). Although these are non-disruptive ToOs, we request that the first epoch occur as close to peak as possible. At the same time, we will trigger a second epoch roughly 100 days later as scheduling allows. The exact timing of this second epoch can be flexible, it is most important to have a long baseline

between the two epochs.

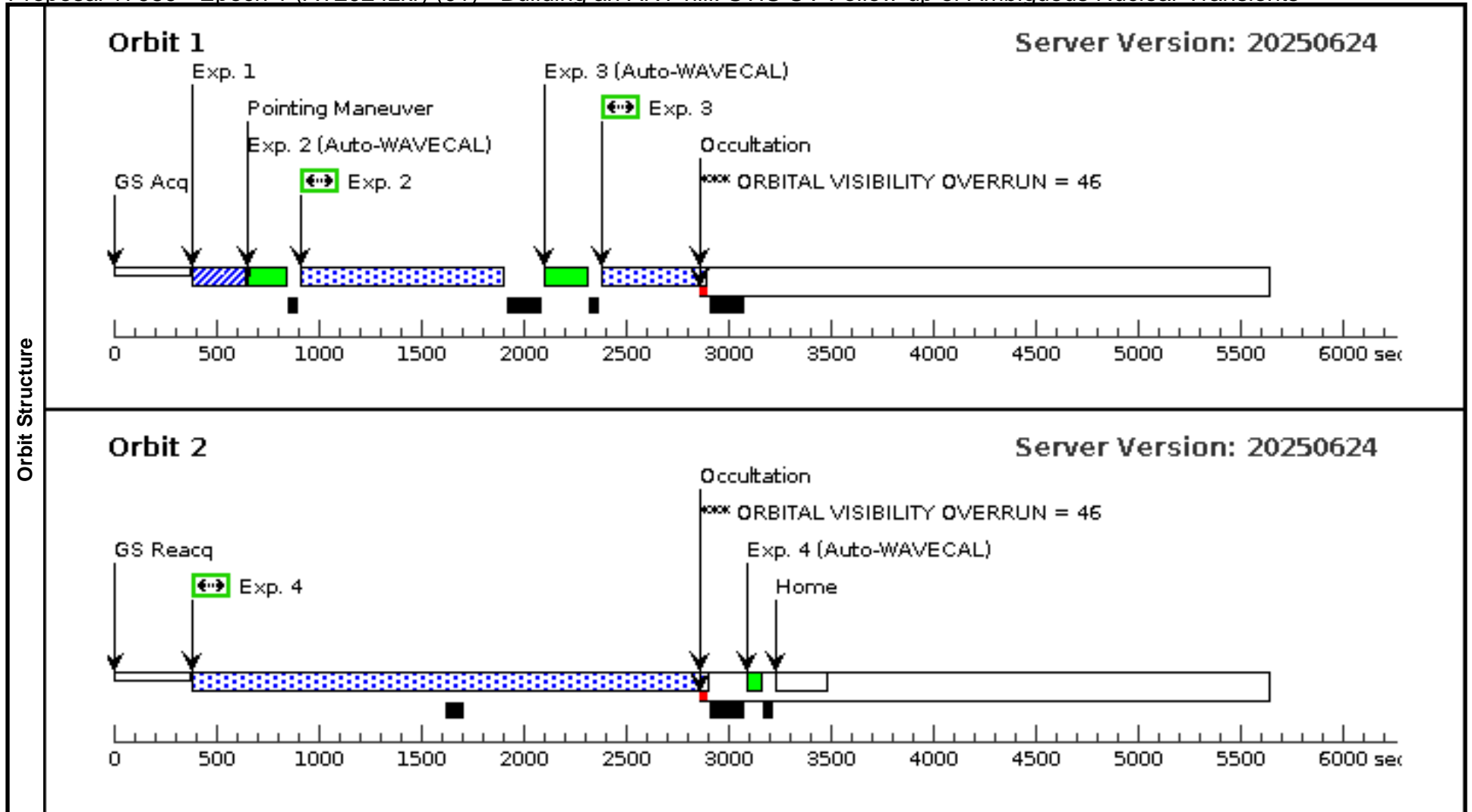
We have set the acquisition image for a point source with the clear/50CCD filter and a 5-second exposure time. This is appropriate for bright ANTs, which should have  $V \sim 16-17$  mag and yield a S/N of  $\sim 150$  according to the STIS acquisition ETC. This exposure time will be fine for targets with  $18.5 > V > 14.5$  mag, outside of which we will tweak the exposure time to avoid saturation and ensure a sufficient S/N. We select the 50CCD filter as the contrast between the target (with a blue SED) and host galaxy will be larger than with the standard F28X50LP filter.

The source should be well above the sky, so the 52x0.2 slit should be fine for both the FUV and NUV observations.

Proposal 17989 - Epoch 1 (AT2024zkr) (01) - Building an ANT-hill: STIS UV Follow-up of Ambiguous Nuclear Transients

Thu Jul 17 17:00:18 GMT 2025

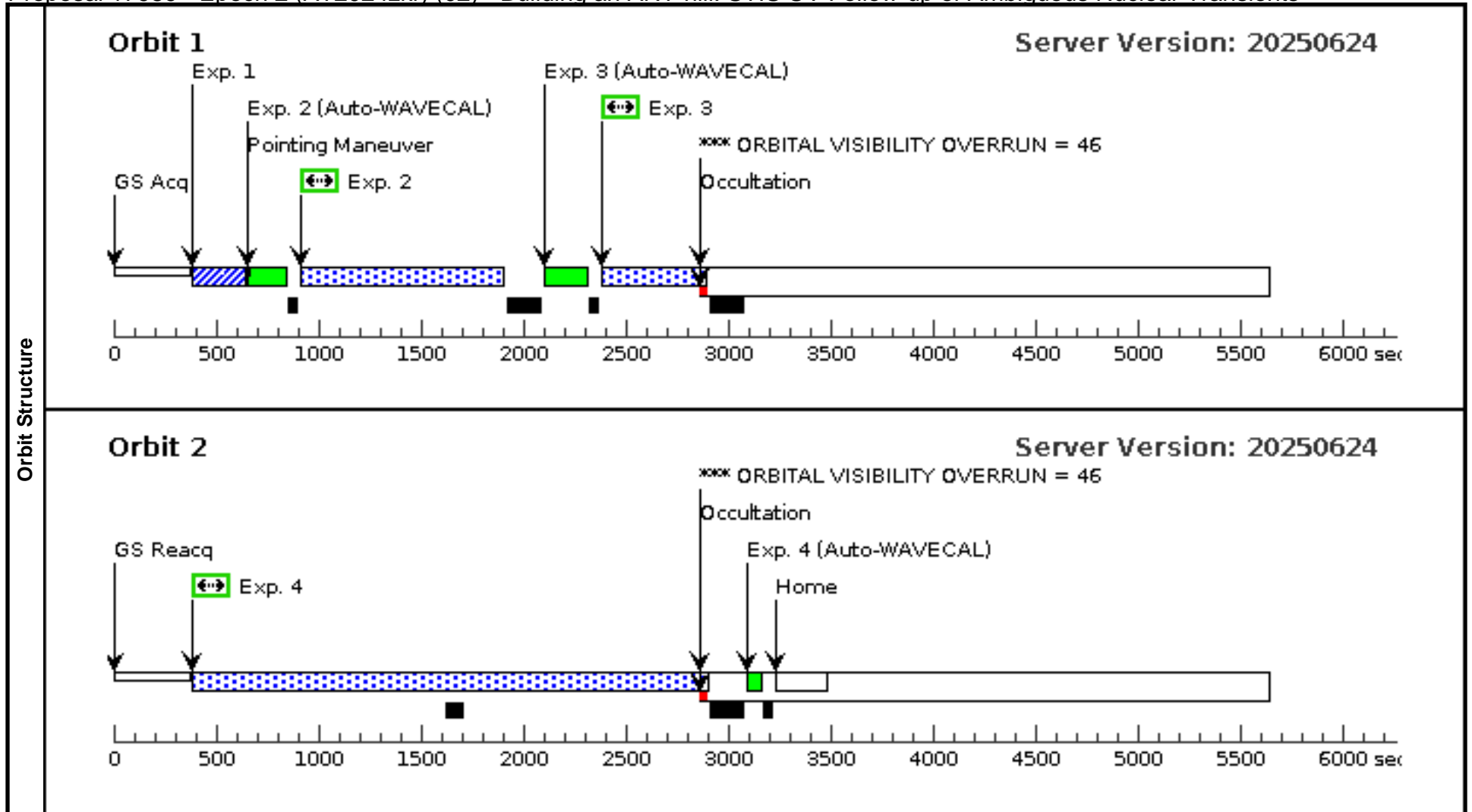
<b>Visit</b>	<b>Proposal 17989, Epoch 1 (AT2024zkr) (01)</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; ON HOLD ; TOO RESPONSE TIME 21.0D Comments: First UV spectroscopic epoch of AT2024zkr. On Hold Comments: Requires discovery of a sufficiently bright ambiguous nuclear transient.																																																																																																																																											
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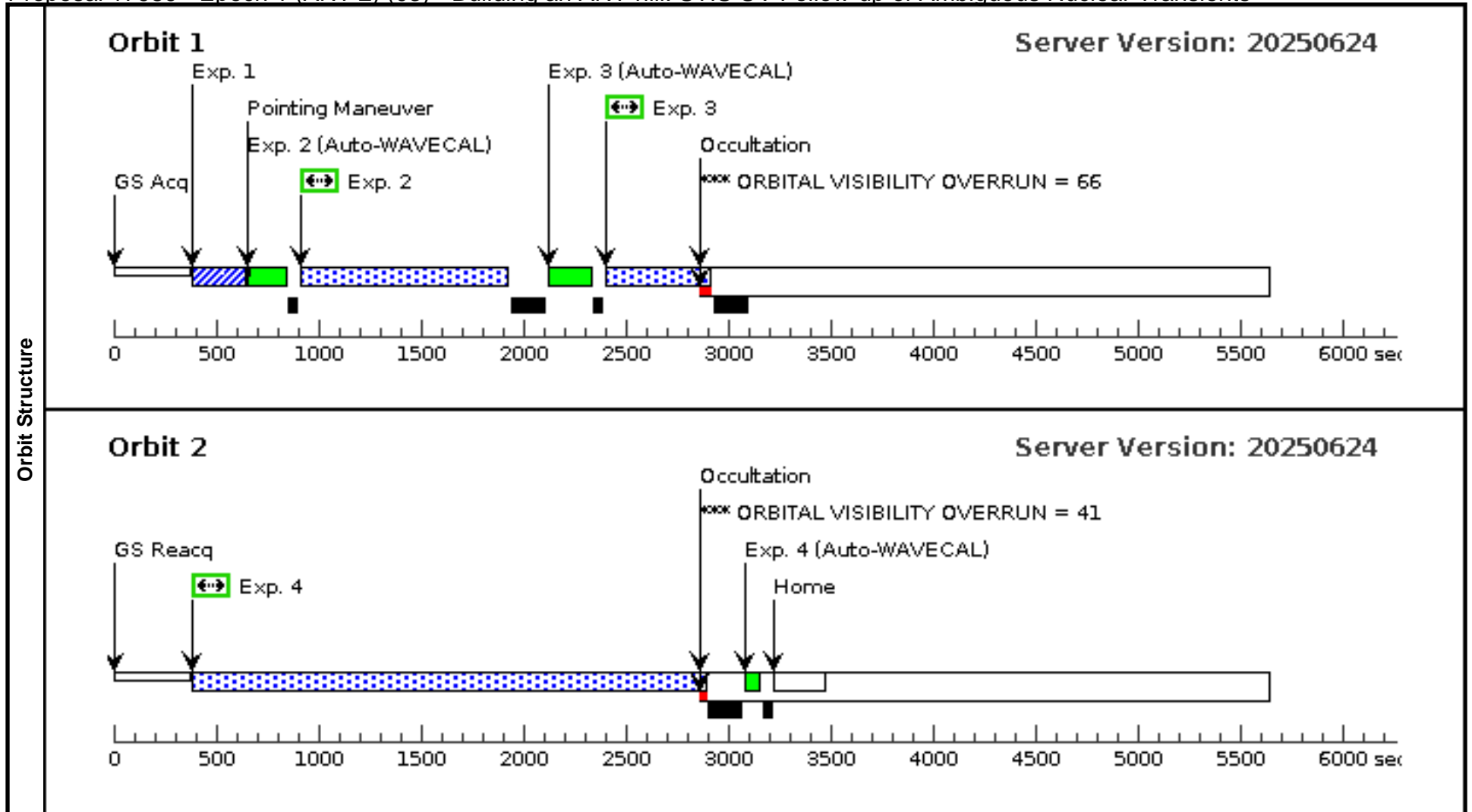
<b>Visit</b>	<b>Proposal 17989, Epoch 2 (AT2024zkr) (02)</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 100%; AFTER 01 BY 90 D TO 220 D; ON HOLD Comments: <i>Second UV spectroscopic epoch of AT2024zkr.</i> On Hold Comments: <i>Requires discovery of a sufficiently bright ambiguous nuclear transient.</i>																																																																																															
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Proposal 17989 - Epoch 1 (ANT 2) (03) - Building an ANT-hill: STIS UV Follow-up of Ambiguous Nuclear Transients

Thu Jul 17 17:00:18 GMT 2025

<b>Visit</b>	<p><b>Proposal 17989, Epoch 1 (ANT 2) (03)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: SCHED 100%; ON HOLD ; TOO RESPONSE TIME 21.0D</p> <p>Comments: First UV spectroscopic epoch of newly-discovered ANT #2.</p> <p>On Hold Comments: Requires discovery of a sufficiently bright ambiguous nuclear transient.</p>																																																																																																			
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Proposal 17989 - Epoch 2 (ANT 2) (04) - Building an ANT-hill: STIS UV Follow-up of Ambiguous Nuclear Transients

Thu Jul 17 17:00:18 GMT 2025

<b>Visit</b>	<p><b>Proposal 17989, Epoch 2 (ANT 2) (04)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA</p> <p>Special Requirements: SCHED 100%; AFTER 03 BY 90 D TO 110 D; ON HOLD</p> <p>Comments: <i>Second UV spectroscopic epoch of newly-discovered ANT #2.</i></p> <p><i>On Hold Comments: Requires discovery of a sufficiently bright ambiguous nuclear transient.</i></p>																																																																																																			
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