



16875 - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptune for Atmospheric Characterisationround

Cycle: 29, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. George Dransfield (PI) (ESA Member) (Contact)	University of Oxford
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Prof. Amaury Triaud (CoI) (ESA Member) (Contact)	University of Birmingham

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) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:15.0	yes
51	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:17.0	yes
02	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:20.0	yes
52	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:22.0	yes
03	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:24.0	yes
53	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:27.0	yes
04	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:29.0	yes
54	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:31.0	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>
05	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:33.0	yes
06	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:36.0	yes
07	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:38.0	yes
08	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:41.0	yes
55	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:43.0	yes
56	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:46.0	yes
57	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:48.0	yes
58	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:50.0	yes
09	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:53.0	yes
10	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:55.0	yes
11	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:00:58.0	yes
12	(1) UCAC4-249-060094	WFC3/IR	1	05-Dec-2025 10:01:01.0	yes

20 Total Orbits Used

ABSTRACT

With no equivalent in our Solar system, sub-Neptunes and super-Earths are the most common categories of planet discovered so far. Formation models predict that they are one and the same: both composed of rocky cores, with sub-Neptunes retaining extended atmospheres, while super-Earths lose them early on. The puffy atmospheres of the smallest sub-Neptunes are outstanding candidates for atmospheric characterisation, as they represent an important step towards the study of Earth-analogs. Particularly, there is growing interest in exploring the atmospheres of temperate sub-Neptunes as these could be harbouring liquid water. In this context, TOI-4336 b is of the highest interest due to the parameters of the system putting it at the top of the list of temperate candidates for atmospheric exploration.

In anticipation of in-depth characterization with HST and the upcoming JWST, it is essential to perform atmospheric reconnaissance in order to discriminate between a clear H-dominated atmosphere (e.g. K2-18b) and a cloudy one (e.g. GJ 1214 b) which prevents the detection of absorbers. We propose the observation of TOI-4336 b with HST's WFC3 and the G141 grism in order to obtain a transmission spectrum covering the range between 1.1 and 1.7 microns. With this Mid-Cycle proposal we expect to probe the upper layers of the atmosphere and detect the presence of water vapour with only three transits at the 5 sigma level, confirming our hypothesis this sub-Neptune is ideal for a full atmospheric characterisation.

OBSERVING DESCRIPTION

TOI-4336 b is a temperate mini-Neptune ($2.63 \pm 0.16R_p$) with an orbital period of 16.33 days around a nearby (22pc) M4.5 star. The planet's equilibrium temperature of $\pm 300K$, the exceptional brightness in J-band of the host ($J=9.45$) and its small radius ($0.32 \pm 0.1R_s$) give this planet an expected transmission spectroscopy metric TSM $\pm 100-120$, making it THE most favourable temperate mini-Neptune for transmission spectroscopy. The goal of our proposal is to probe the outer parts of the atmosphere of this sub-Neptune in the hopes of finding molecular signatures such as the one of water.

We request 12 orbits to observe three full transits of TOI-4336 b with the WFC3 G141 grism, with four orbits per transit. Owing to its high TSM, our calculation showed that with just three transits, we will be able to distinguish between the clear and cloudy atmosphere for TOI-4336 b, and in case of cloudless atmosphere detect the atmospheric water signal at greater than 5sigma level similar to K2-18 b. We ask for 3 transits to have some redundancy in our data, and build towards the detection of water feature at better than 16sigma level according to our simulations, or 5sigma level in the case of a dense mini-Neptune.

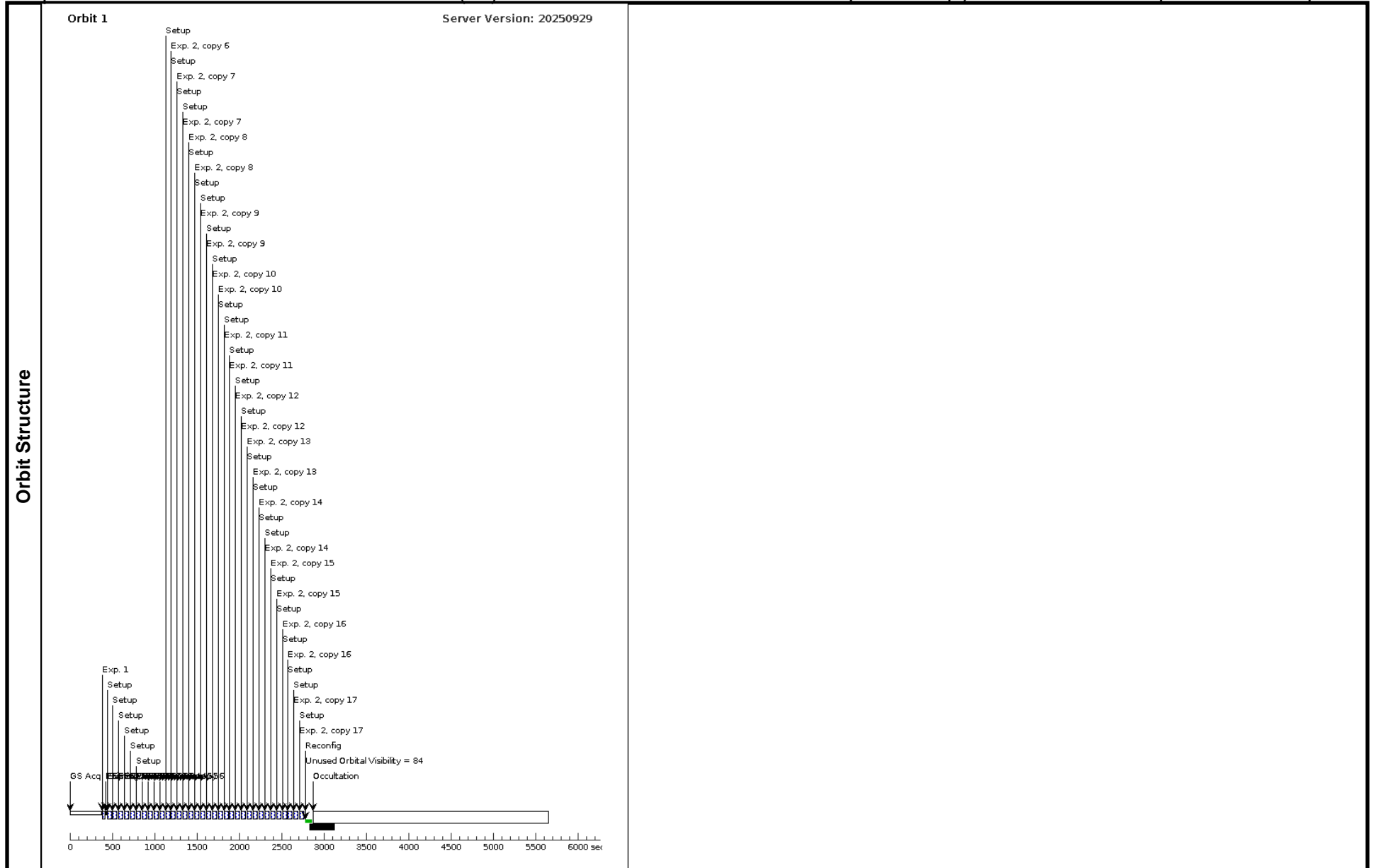
Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (01) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 1 (01), failed Fri Dec 05 15:01:02 GMT 2025 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ORIENT 72D TO 78 D; Period 16.3362920 D AND ZERO-PHASE HJD2459335.572603					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS
Comments: Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]						

Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (01) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WFC3 TOI-4336.01 Acquisition	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	F139M	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.99013884 37872132 TO 0.9940 156325043705	Sequence 1-2 Non-Int in WFC3 TOI-4336.01 Visit 1 (01)	0.833445 Secs (0.833 Secs) [==>]	[1]
2	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.1 4,90.0 Degrees, Round trip	Sequence 1-2 Non-Int in WFC3 TOI-4336.01 Visit 1 (01)	29.663763 Secs X 17 (1008.568 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[1]

Exposures



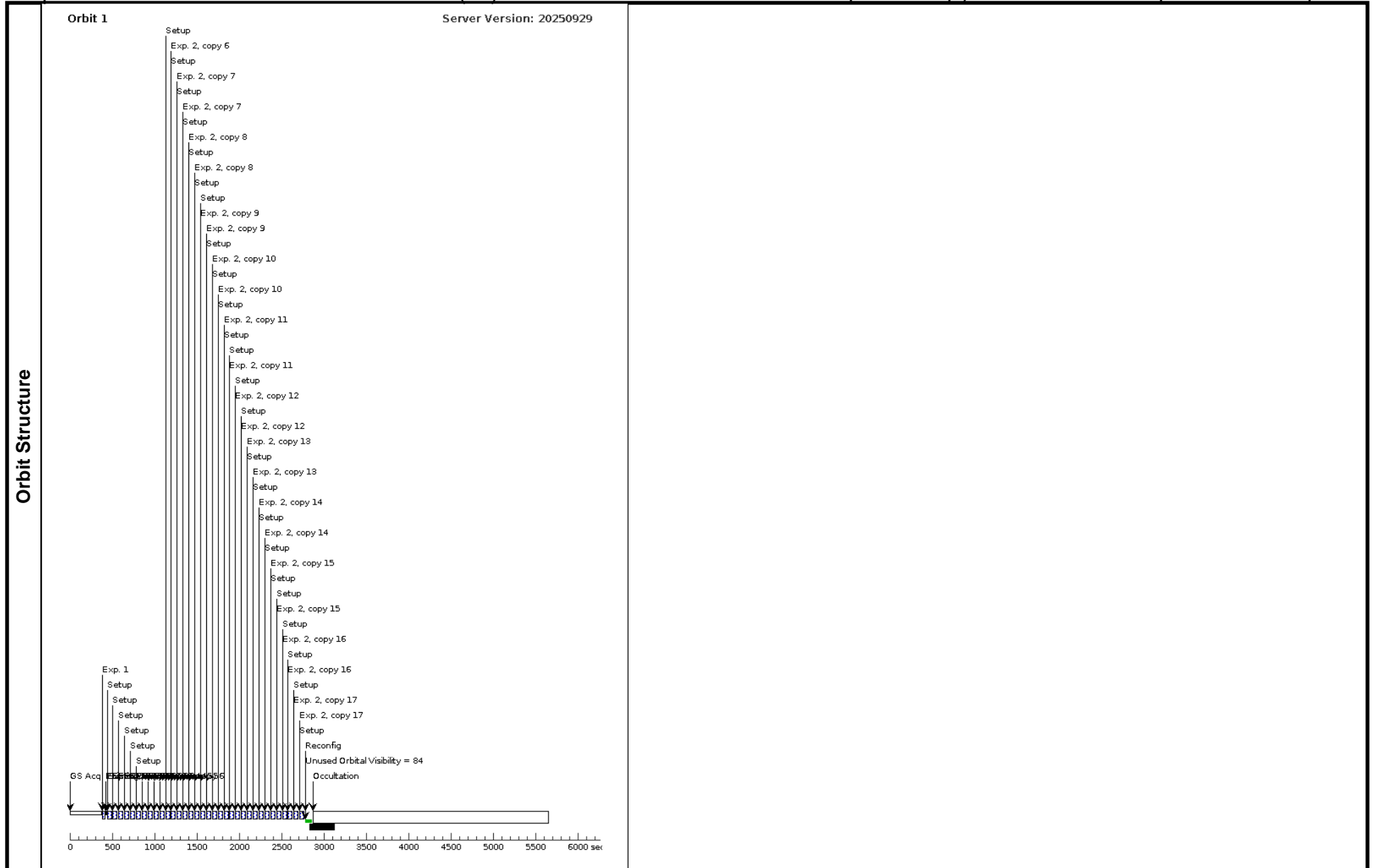
Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (51) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 1 (51), completed Fri Dec 05 15:01:02 GMT 2025 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ORIENT 72D TO 78 D; Period 16.3362920 D AND ZERO-PHASE HJD2459335.572603 Comments: HOPR Repeat of visit 01					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS
Comments: Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]						

Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (51) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WFC3 TOI-4336.01 Acquisition	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	F139M	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.99013884 37872132 TO 0.9940 156325043705	Sequence 1-2 Non-Int in WFC3 TOI-4336.01 Visit 1 (51)	0.833445 Secs (0.833 Secs) [==>]	[1]
2	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.1 4,90.0 Degrees, Round trip	Sequence 1-2 Non-Int in WFC3 TOI-4336.01 Visit 1 (51)	29.663763 Secs X 17 (1008.568 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[1]

Exposures



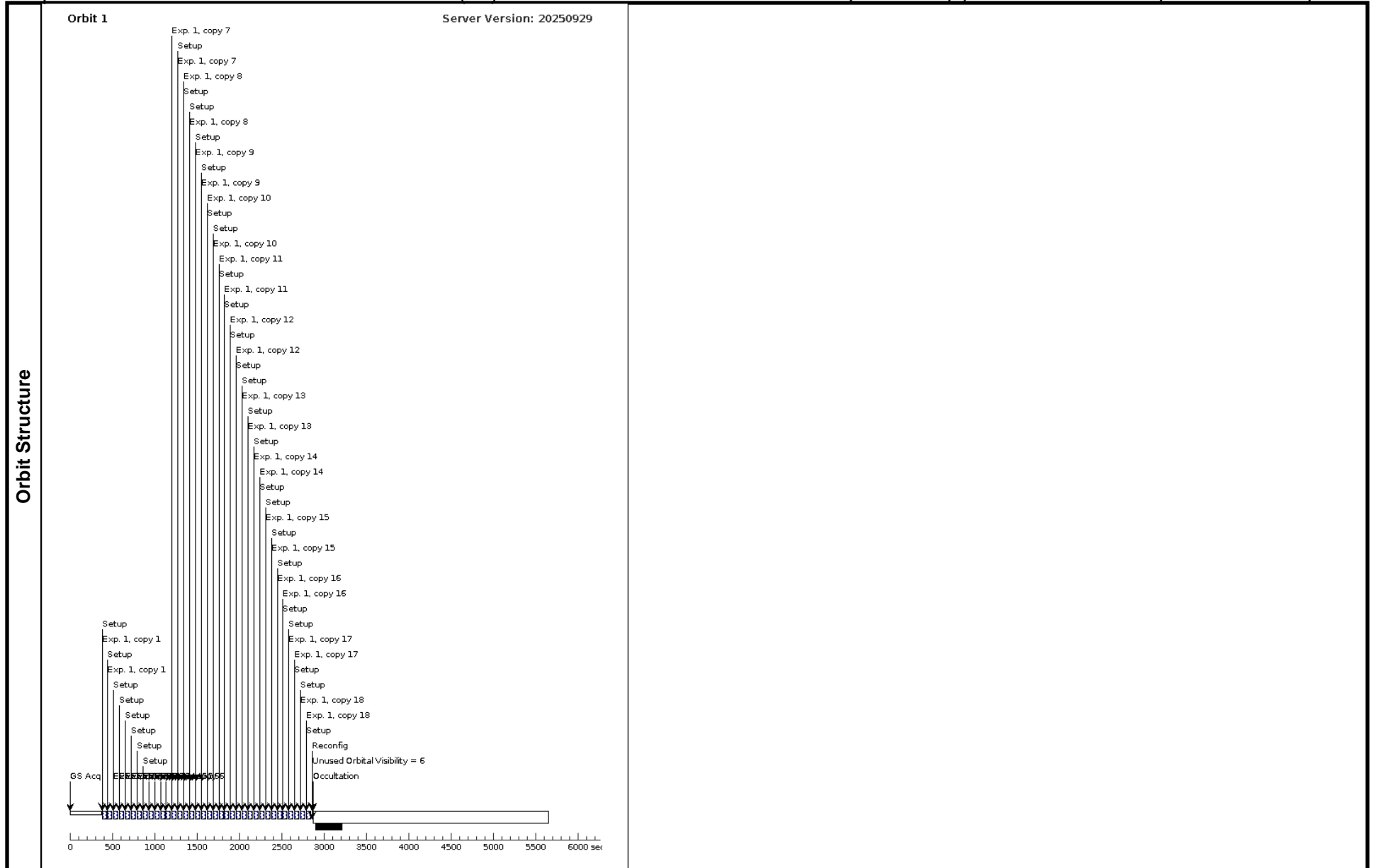
Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (02) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 1 (02), failed Fri Dec 05 15:01:02 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 01; AFTER 01 BY 0.9 Orbits TO 1.1 Orbits					
	(WFC3 TOI-4336.01 Visit 1 (02)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.					
Diagnosics						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS
Comments: Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]						

Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (02) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit		
Exposures	1	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Int in WFC3 TOI-4336.01 Visit 1 (02)	29.663763 Secs X 18 (1067.895 Secs)		
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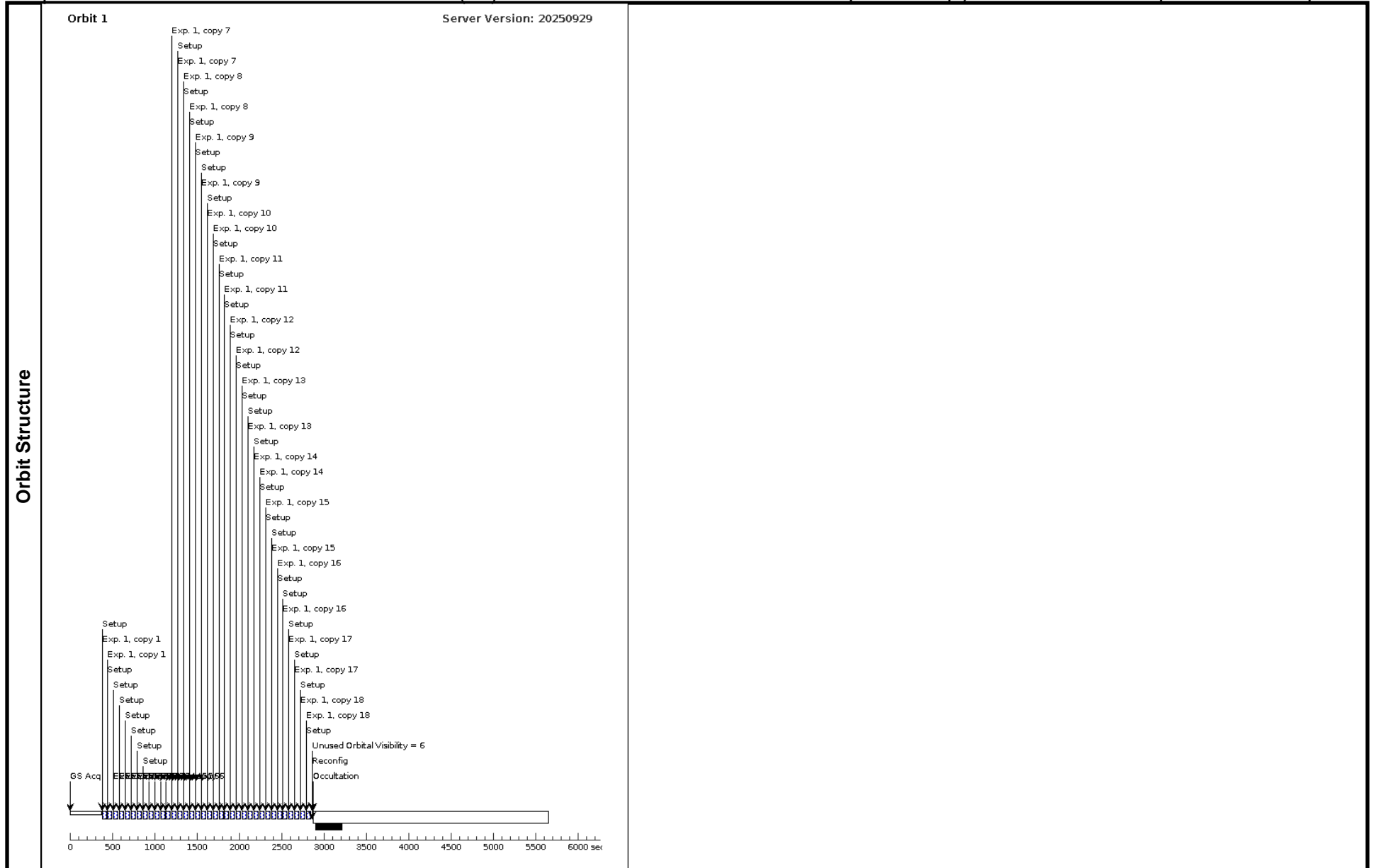


Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (52) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 1 (52), completed Fri Dec 05 15:01:02 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 51; AFTER 51 BY 0.9 Orbits TO 1.1 Orbits <i>Comments: HOPR repeat of visit 02</i>																
	Diagnosics (WFC3 TOI-4336.01 Visit 1 (52)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																
Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">#</th> <th style="width: 20%;">Name</th> <th style="width: 25%;">Target Coordinates</th> <th style="width: 20%;">Targ. Coord. Corrections</th> <th style="width: 10%;">Fluxes</th> <th style="width: 20%;">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>UCAC4-249-060094</td> <td>RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000</td> <td>Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000</td> <td>V=12.89</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS												
<i>Comments:</i> Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]																	

Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (52) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Int in WFC3 TOI-4336.01 Visit 1 (52)	[1]
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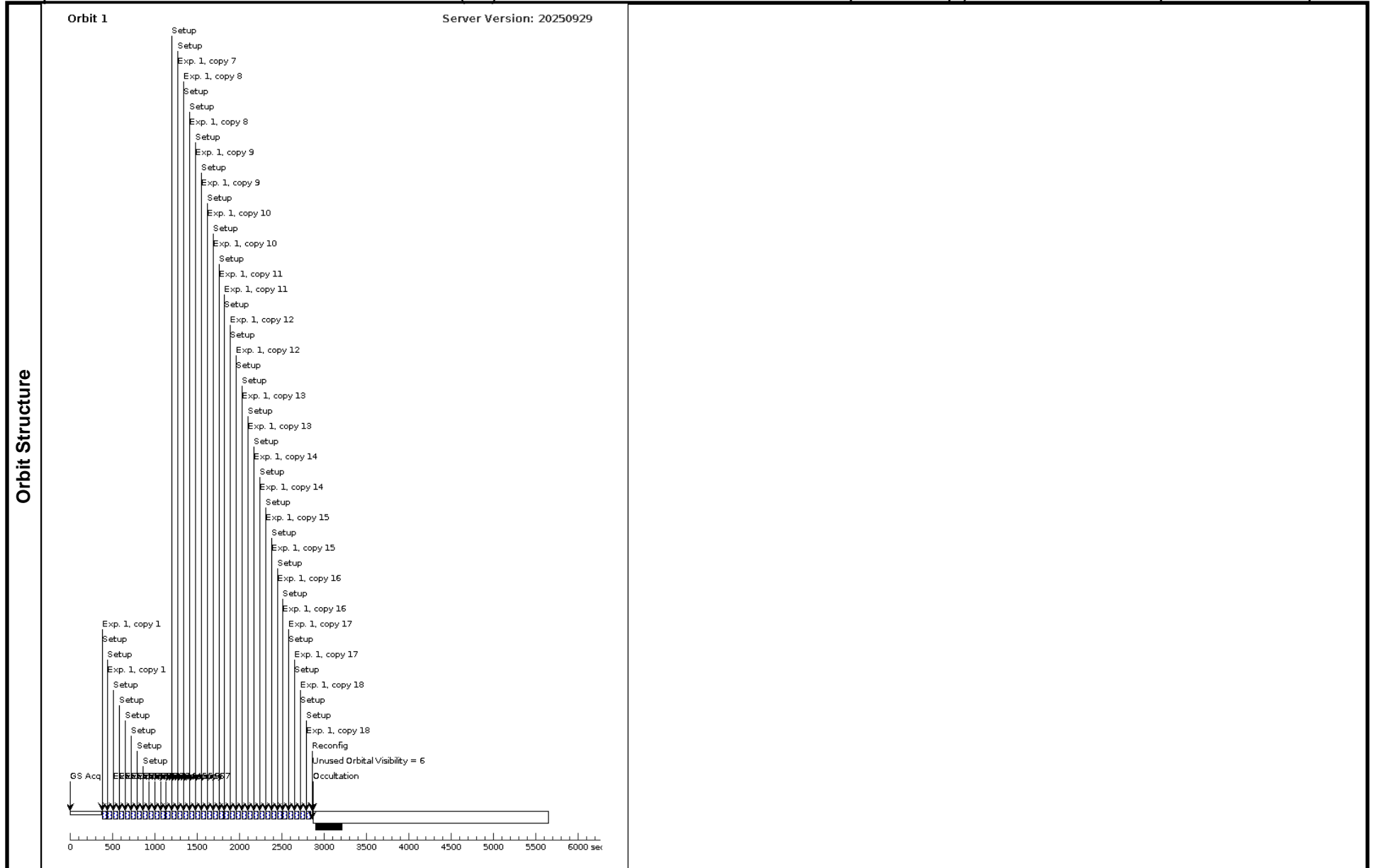


Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (03) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 1 (03), failed Fri Dec 05 15:01:02 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 01; AFTER 02 BY 0.9 Orbits TO 1.1 Orbits					
	(WFC3 TOI-4336.01 Visit 1 (03)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.					
Diagnosics						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS
Comments: Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]						

Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (03) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Int in WFC3 TOI-4336.01 Visit 1 (03)	29.663763 Secs X 18 (1067.895 Secs)	[1]
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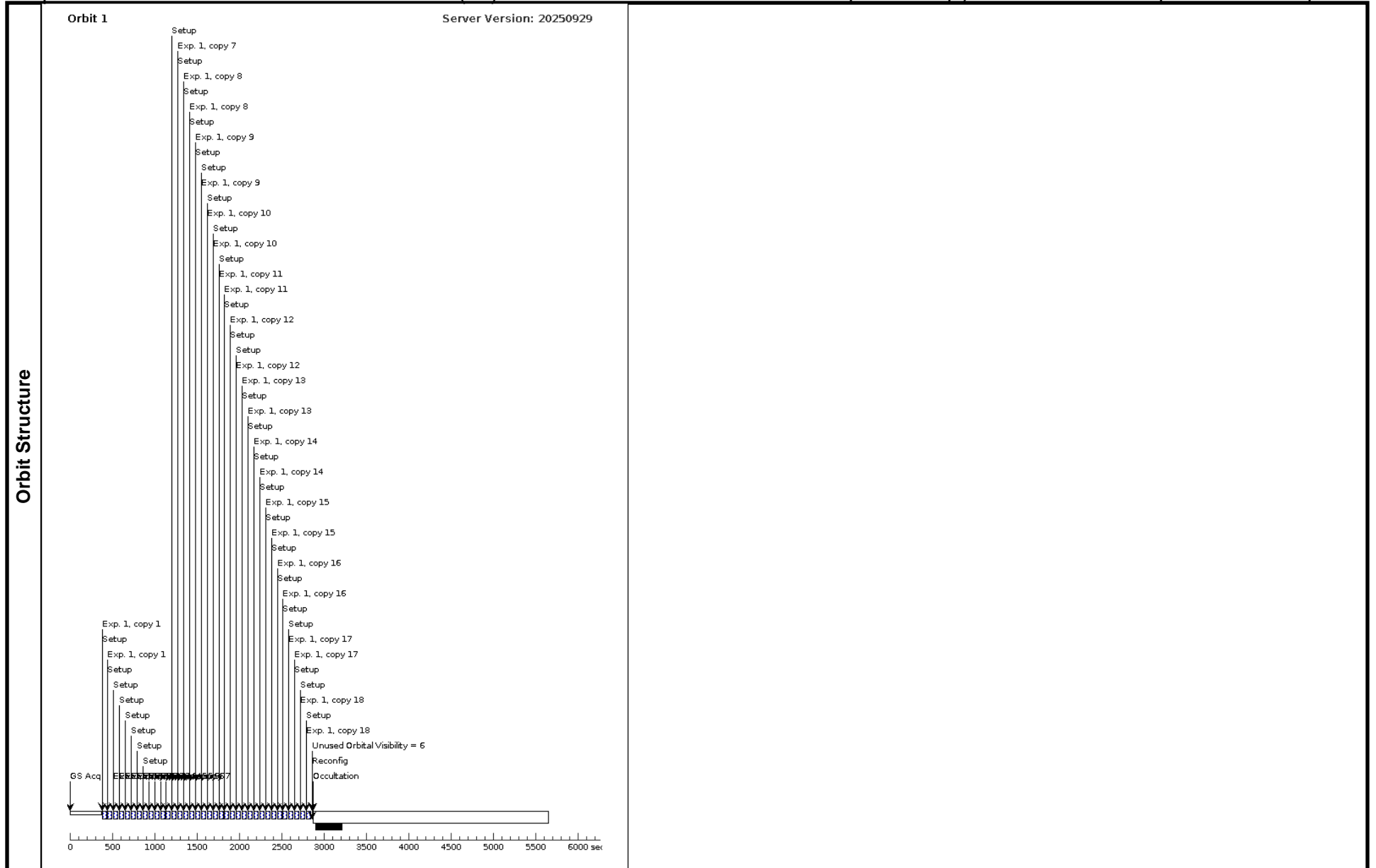


Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (53) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 1 (53), completed Fri Dec 05 15:01:02 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 51; AFTER 52 BY 0.9 Orbits TO 1.1 Orbits <i>Comments: HOPR repeat of visit 03</i>																
	Diagnosics (WFC3 TOI-4336.01 Visit 1 (53)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																
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>UCAC4-249-060094</td> <td>RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000</td> <td>Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000</td> <td>V=12.89</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS												
<i>Comments:</i> Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]																	

Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (53) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit		
Exposures	1	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Int in WFC3 TOI-4336.01 Visit 1 (53)	29.663763 Secs X 18 (1067.895 Secs)	[1]	
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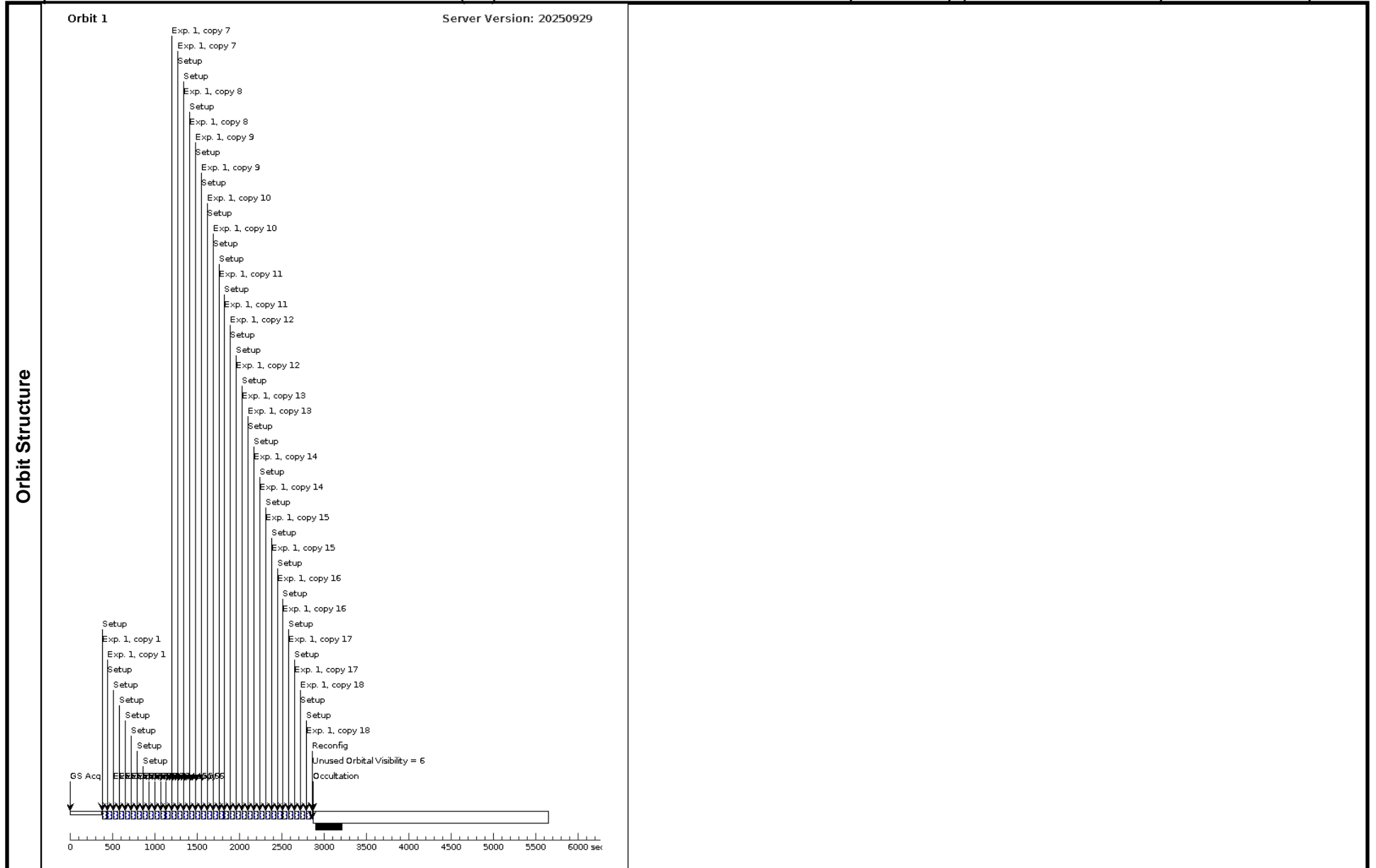
Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (04) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 1 (04), failed Fri Dec 05 15:01:02 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 01; AFTER 03 BY 0.9 Orbits TO 1.1 Orbits					
	(WFC3 TOI-4336.01 Visit 1 (04)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.					
Diagnosics						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS
Comments: Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]						

Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (04) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit		
Exposures	1	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Instant in WFC3 TOI-4336.01 Visit 1 (04)	29.663763 Secs X 18 (1067.895 Secs)		
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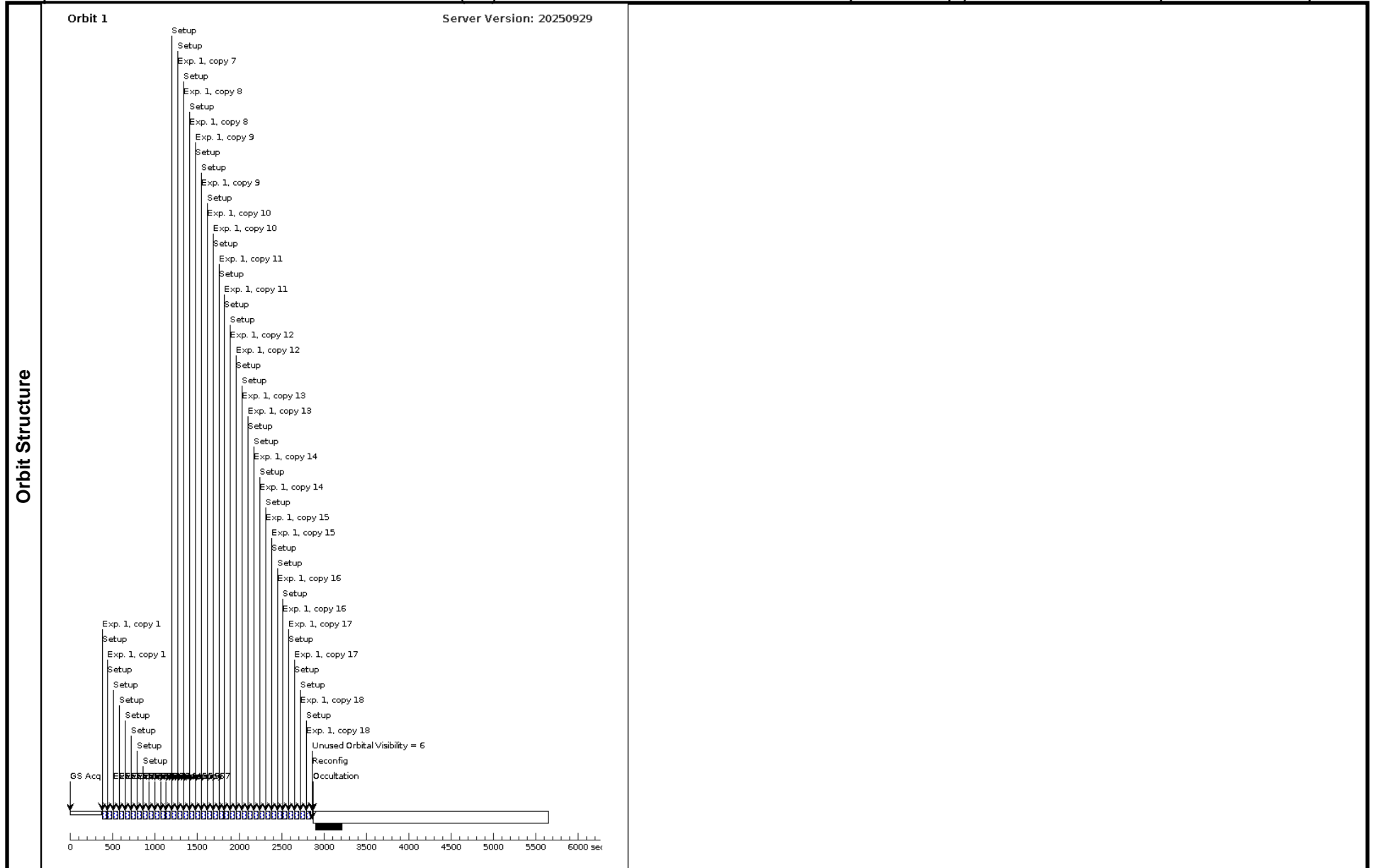
Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (54) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 1 (54), completed Fri Dec 05 15:01:02 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 51; AFTER 53 BY 0.9 Orbits TO 1.1 Orbits <i>Comments: HOPR repeat of visit o4</i>																
	Diagnosics (WFC3 TOI-4336.01 Visit 1 (54)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																
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>UCAC4-249-060094</td> <td>RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000</td> <td>Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000</td> <td>V=12.89</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS												
<i>Comments:</i> Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]																	

Proposal 16875 - WFC3 TOI-4336.01 Visit 1 (54) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit		
Exposures	1	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Int in WFC3 TOI-4336.01 Visit 1 (54)	29.663763 Secs X 18 (1067.895 Secs)		
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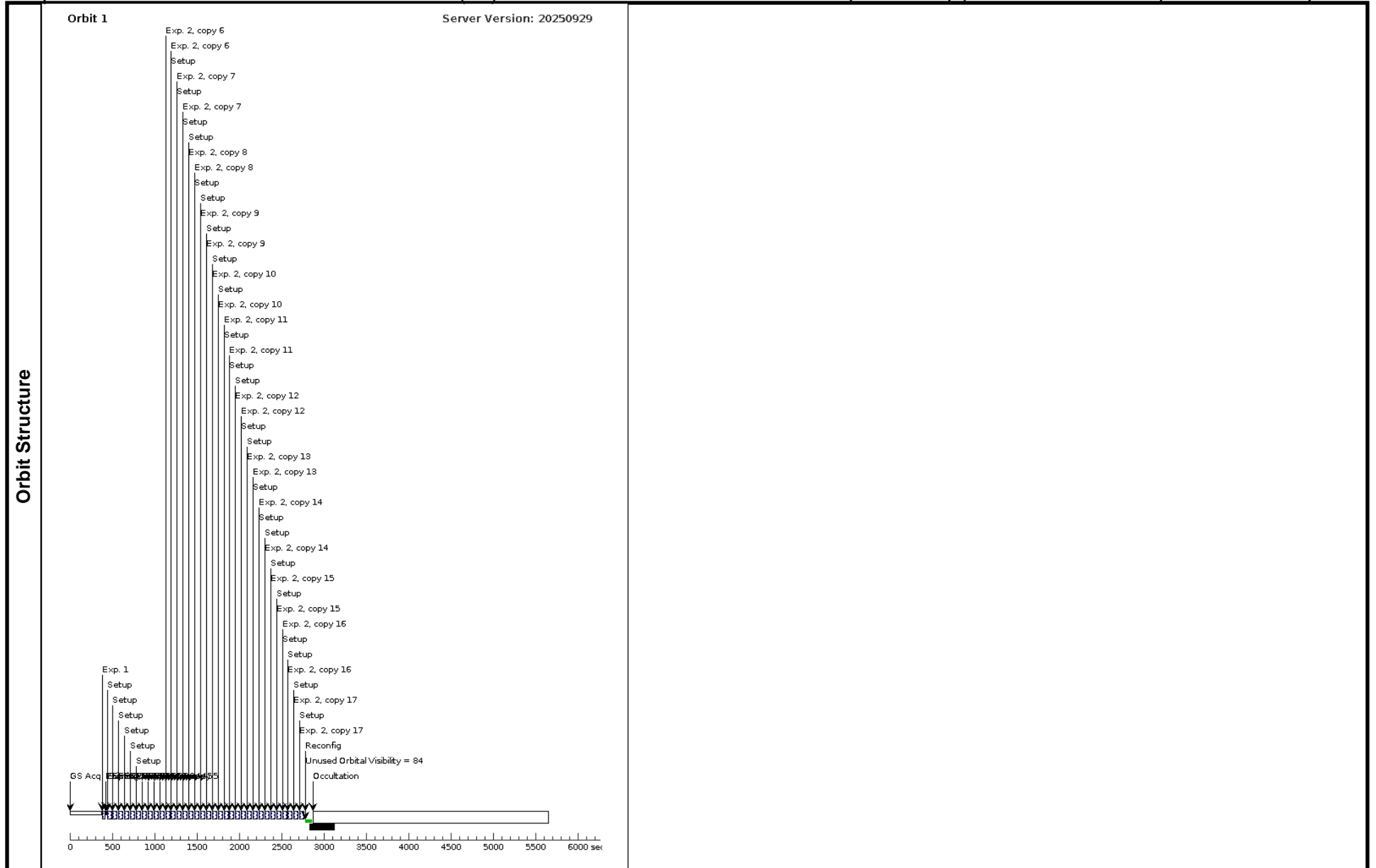
Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (05) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 2 (05), failed Fri Dec 05 15:01:02 GMT 2025 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ORIENT 72D TO 100 D; Period 16.3362920 D AND ZERO-PHASE HJD2459335.572603					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS
Comments: Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]						

Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (05) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WFC3 TOI-4336.01 Acquisition	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	F139M	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.99013884 37872132 TO 0.9940 156325043705	Sequence 1-2 Non-Int in WFC3 TOI-4336.01 Visit 2 (05)	0.833445 Secs (0.833 Secs) [==>]	[1]
2	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees, Round trip	Sequence 1-2 Non-Int in WFC3 TOI-4336.01 Visit 2 (05)	29.663763 Secs X 17 (1008.568 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[1]

Exposures



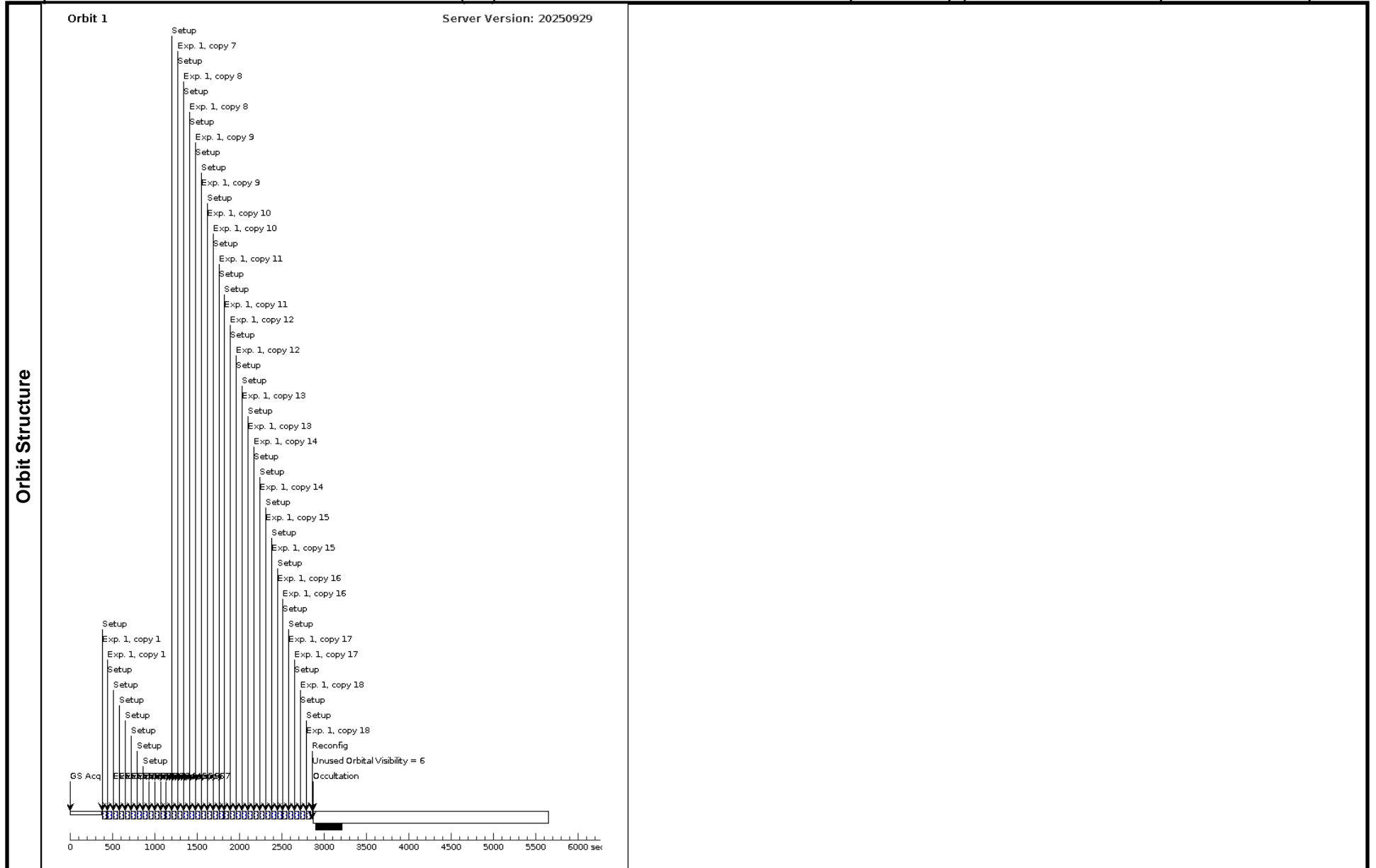
Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (06) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 2 (06), failed Fri Dec 05 15:01:02 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 05; AFTER 05 BY 0.9 Orbits TO 1.1 Orbits																
	(WFC3 TOI-4336.01 Visit 2 (06)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																
Diagnosics																	
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>UCAC4-249-060094</td> <td> RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000 </td> <td> Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000 </td> <td>V=12.89</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS				
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(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS												
Comments: Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]																	

Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (06) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit		
Exposures	1	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Int in WFC3 TOI-4336.01 Visit 2 (06)	29.663763 Secs X 18 (1067.895 Secs)		
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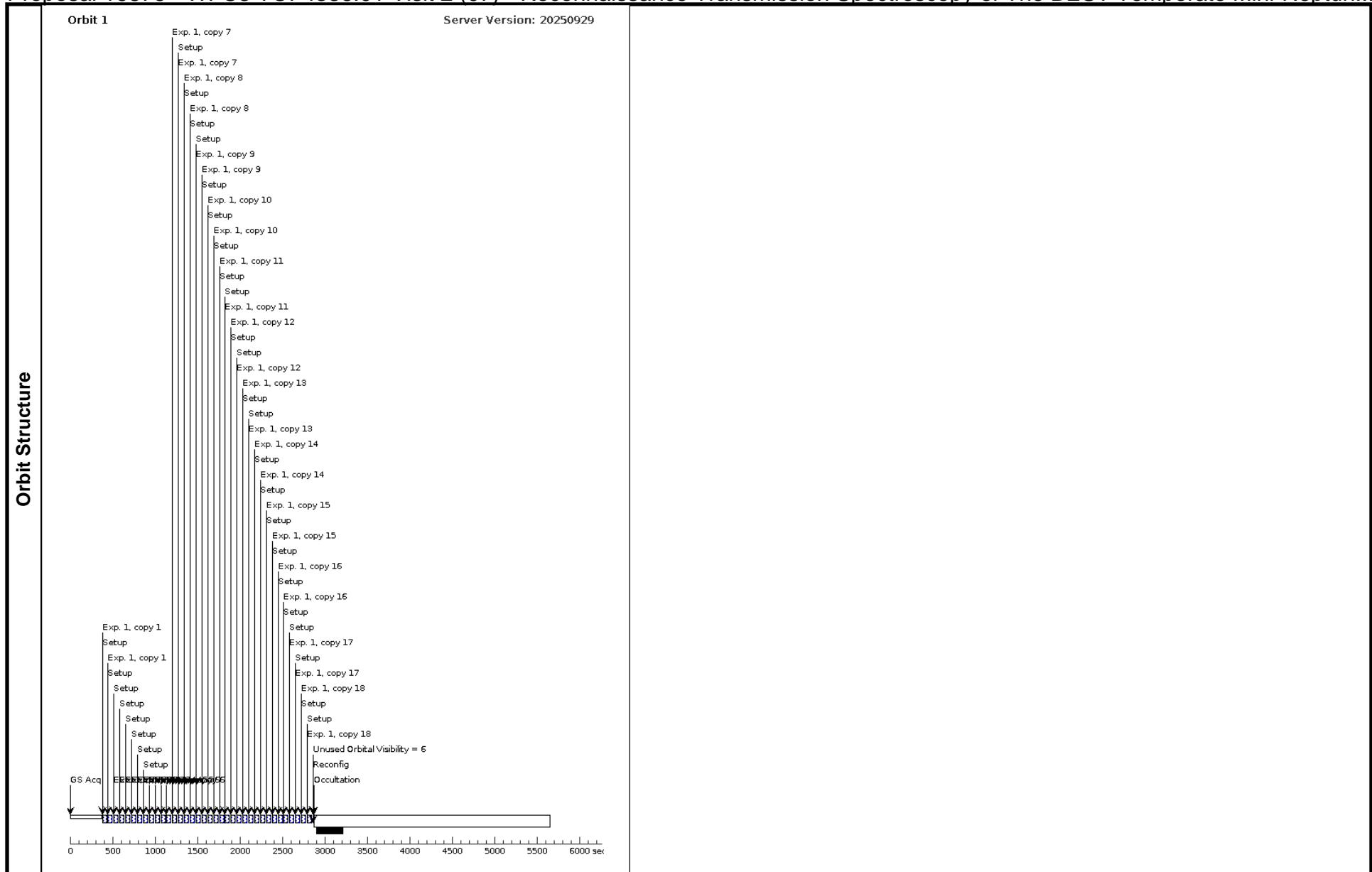
Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (07) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 2 (07), failed Fri Dec 05 15:01:02 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 05; AFTER 06 BY 0.9 Orbits TO 1.1 Orbits																
	(WFC3 TOI-4336.01 Visit 2 (07)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																
Diagnosics																	
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>UCAC4-249-060094</td> <td> RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000 </td> <td> Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000 </td> <td>V=12.89</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS				
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS												
Comments: Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]																	

Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (07) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Int in WFC3 TOI-4336.01 Visit 2 (07)	29.663763 Secs X 18 (1067.895 Secs)	
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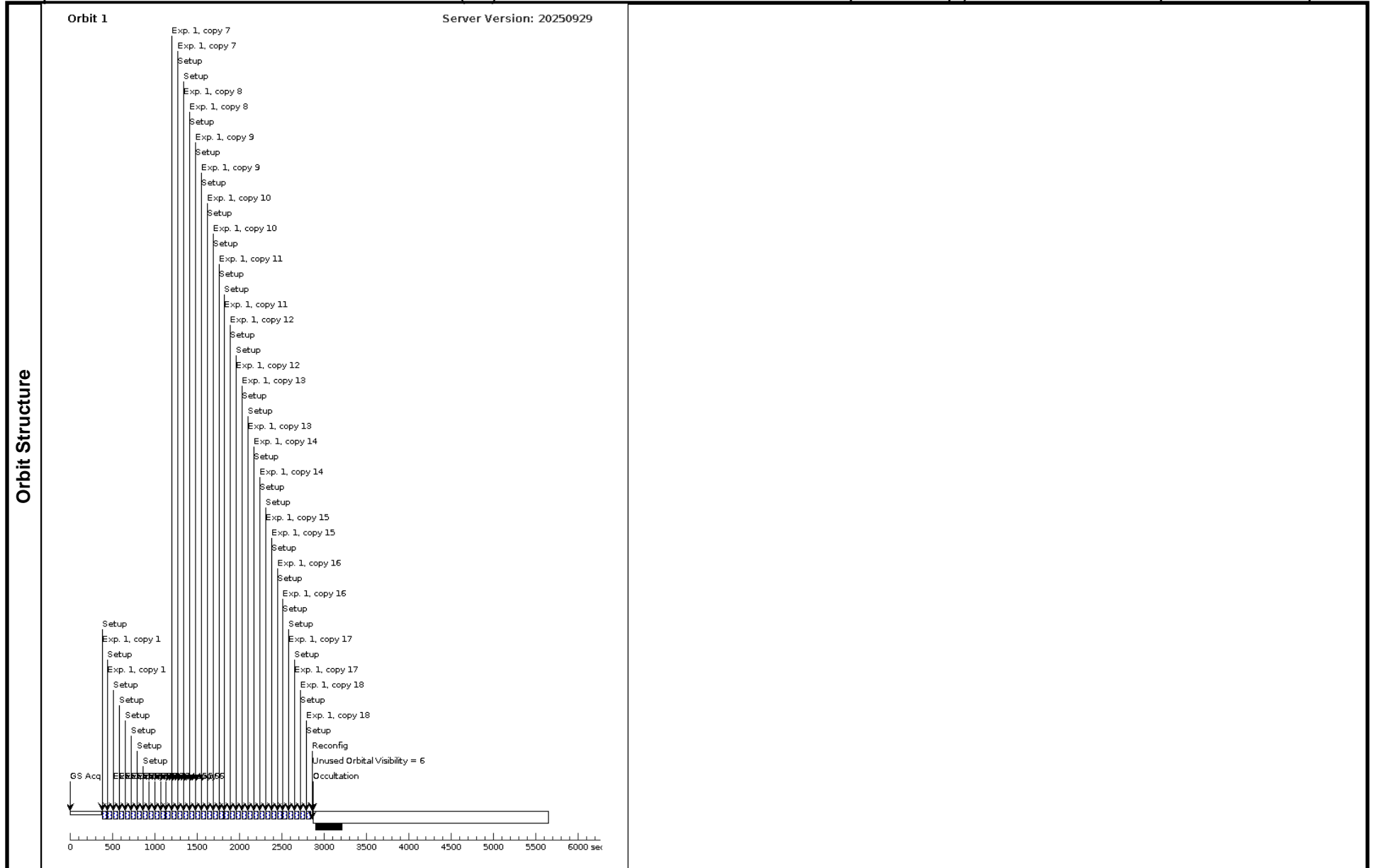


Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (08) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 2 (08), failed Fri Dec 05 15:01:03 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 05; AFTER 07 BY 0.9 Orbits TO 1.1 Orbits																
	(WFC3 TOI-4336.01 Visit 2 (08)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																
Diagnosics																	
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>UCAC4-249-060094</td> <td> RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000 </td> <td> Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000 </td> <td>V=12.89</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS				
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
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Comments: Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]																	

Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (08) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Int in WFC3 TOI-4336.01 Visit 2 (08)	29.663763 Secs X 18 (1067.895 Secs)	[1]
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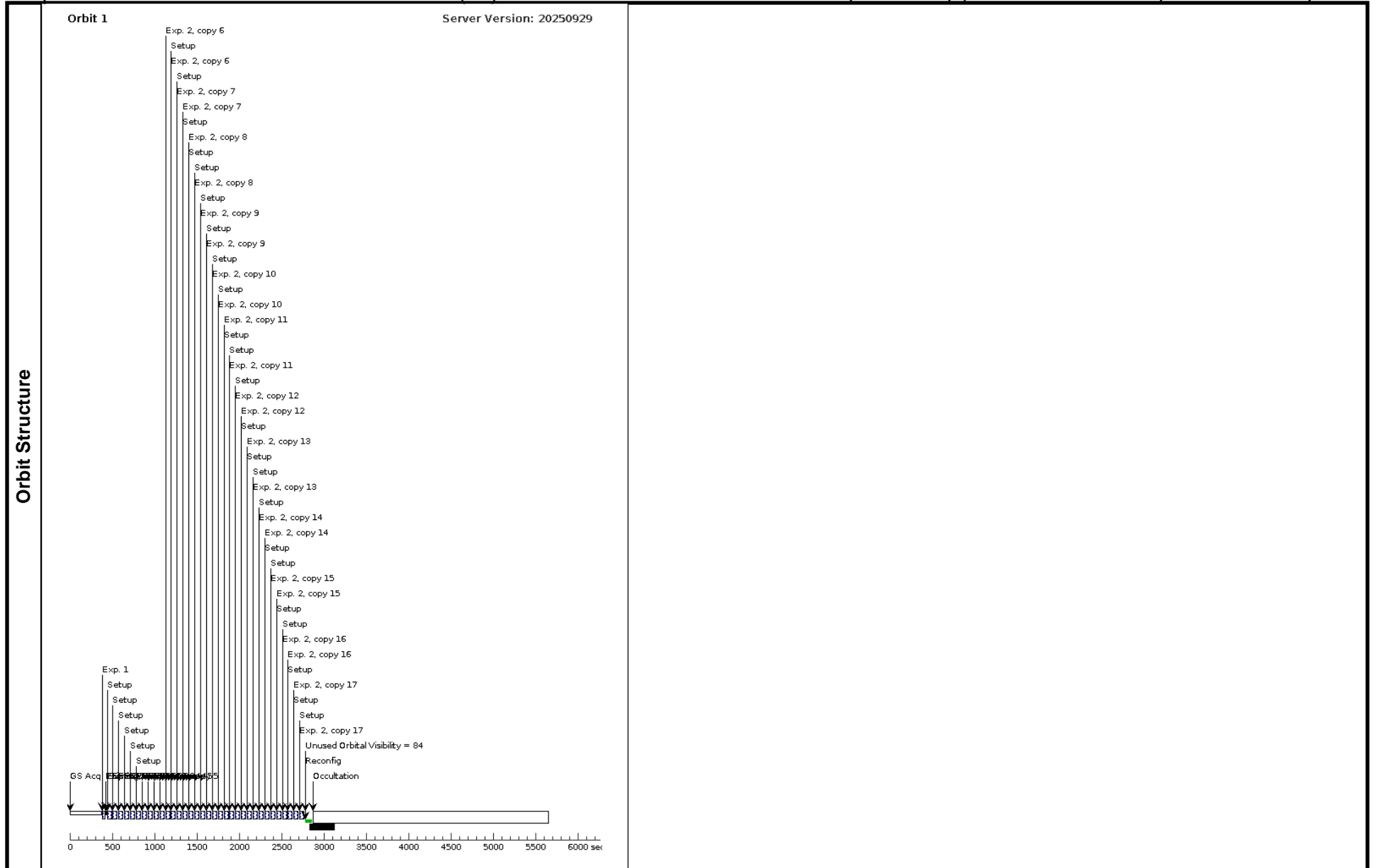
Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (55) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 2 (55), implementation Fri Dec 05 15:01:03 GMT 2025					
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ORIENT 72D TO 100 D; ORIENT 275D TO 280 D; Period 16.3362920 D AND ZERO-PHASE HJD2459335.572603 Comments: HOPR repeat of visit 05					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS
Comments: Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]						

Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (55) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WFC3 TOI-4336.01 Acquisition	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	F139M	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.99013884 37872132 TO 0.9940 156325043705	Sequence 1-2 Non-Int in WFC3 TOI-4336.01 Visit 2 (55)	0.833445 Secs (0.833 Secs) [==>]	[1]
2	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees, Round trip	Sequence 1-2 Non-Int in WFC3 TOI-4336.01 Visit 2 (55)	29.663763 Secs X 17 (1008.568 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[1]

Exposures

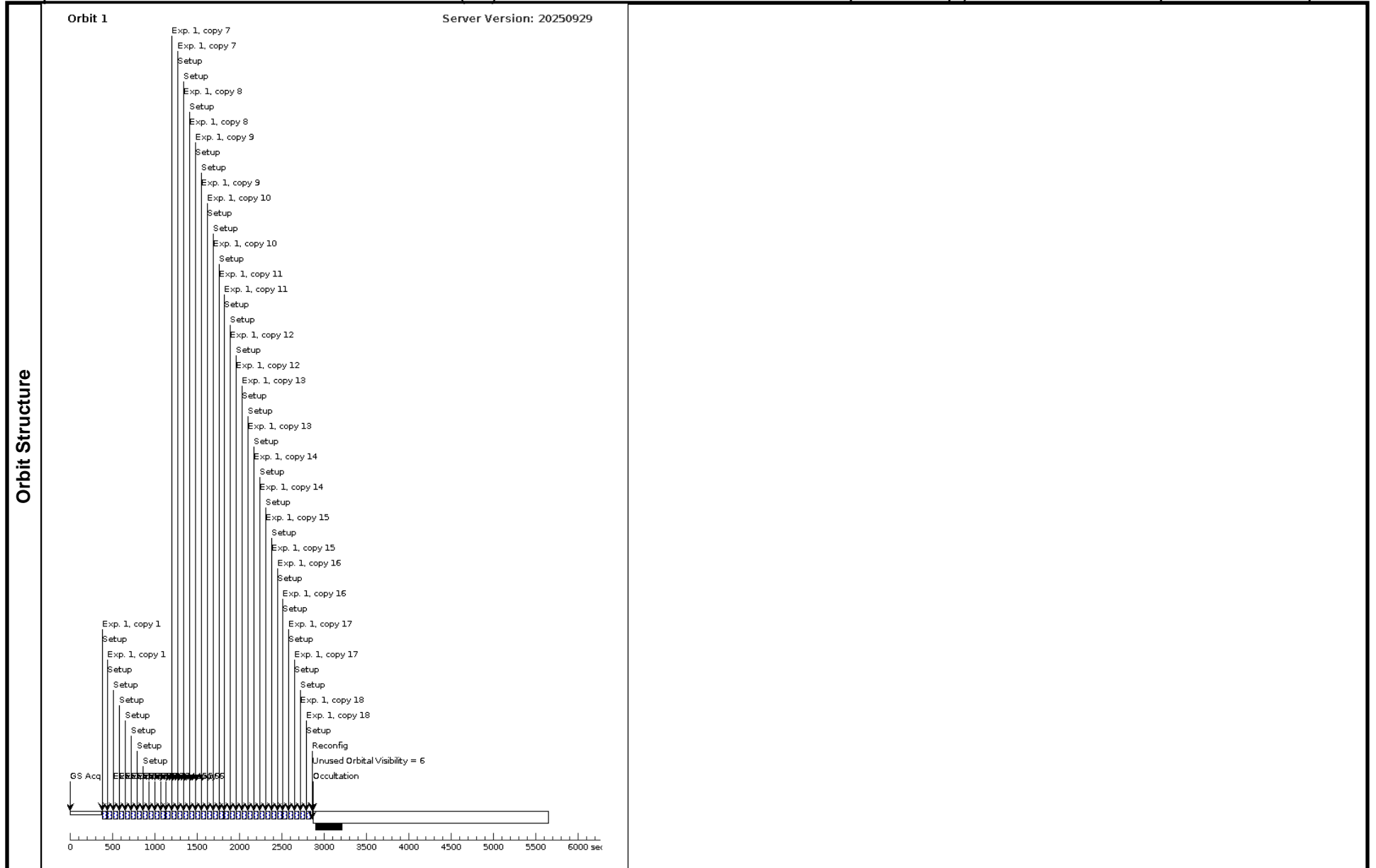


Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (56) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 2 (56), implementation Fri Dec 05 15:01:03 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 55; AFTER 55 BY 0.9 Orbits TO 1.1 Orbits <i>Comments: HOPR repeat of visit 06.</i>																
	Diagnosics (WFC3 TOI-4336.01 Visit 2 (56)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																
Fixed Targets	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">#</th> <th style="width: 20%;">Name</th> <th style="width: 25%;">Target Coordinates</th> <th style="width: 20%;">Targ. Coord. Corrections</th> <th style="width: 10%;">Fluxes</th> <th style="width: 20%;">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>UCAC4-249-060094</td> <td>RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000</td> <td>Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000</td> <td>V=12.89</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS												
<i>Comments:</i> Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]																	

Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (56) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Int in WFC3 TOI-4336.01 Visit 2 (56)	29.663763 Secs X 18 (1067.895 Secs)	[1]
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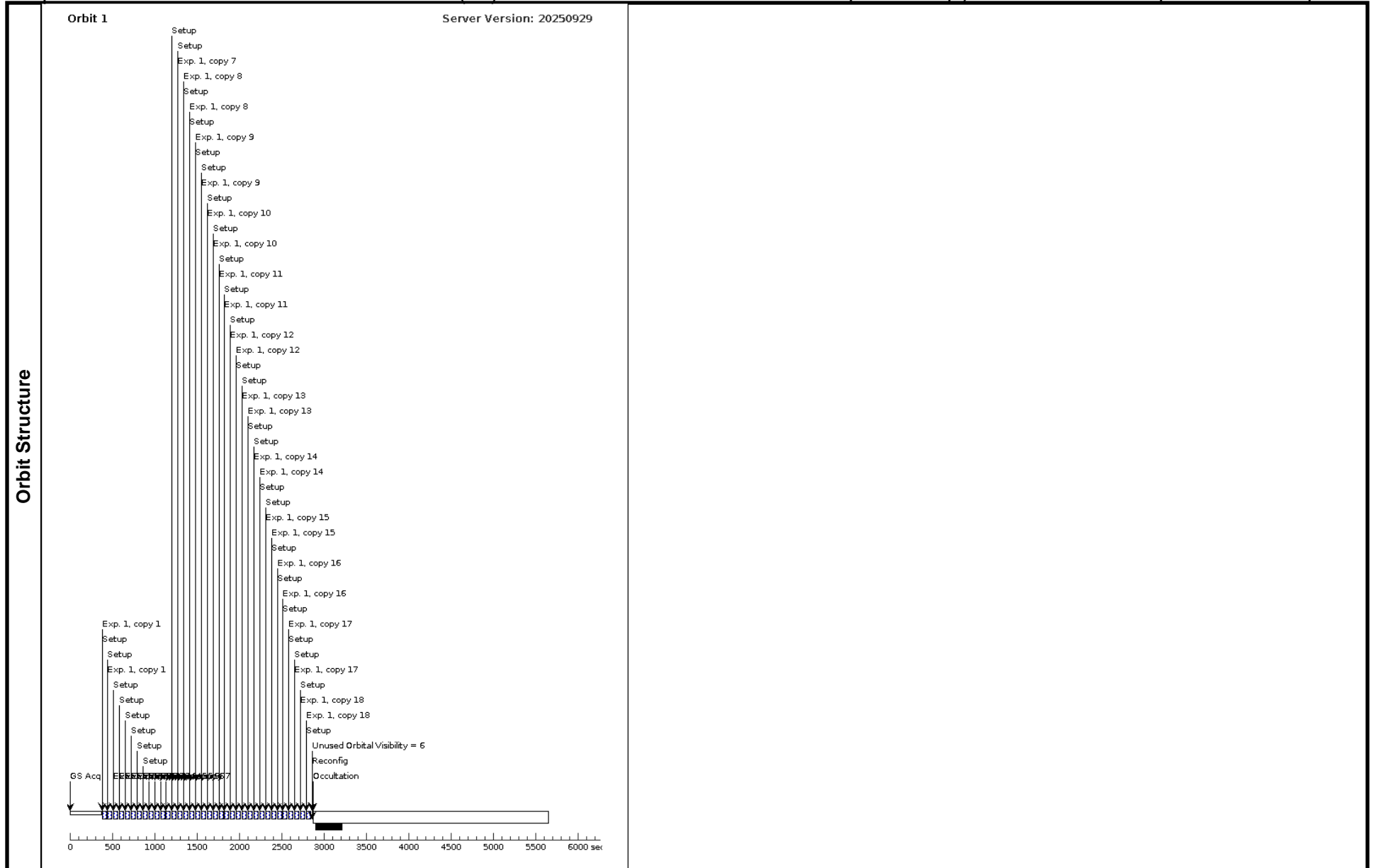


Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (57) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 2 (57), implementation Fri Dec 05 15:01:03 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 55; AFTER 56 BY 0.9 Orbits TO 1.1 Orbits <i>Comments: HOPR repeat of visit 07.</i>																
	Diagnosics (WFC3 TOI-4336.01 Visit 2 (57)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																
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>UCAC4-249-060094</td> <td>RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000</td> <td>Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000</td> <td>V=12.89</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
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<i>Comments:</i> Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]																	

Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (57) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

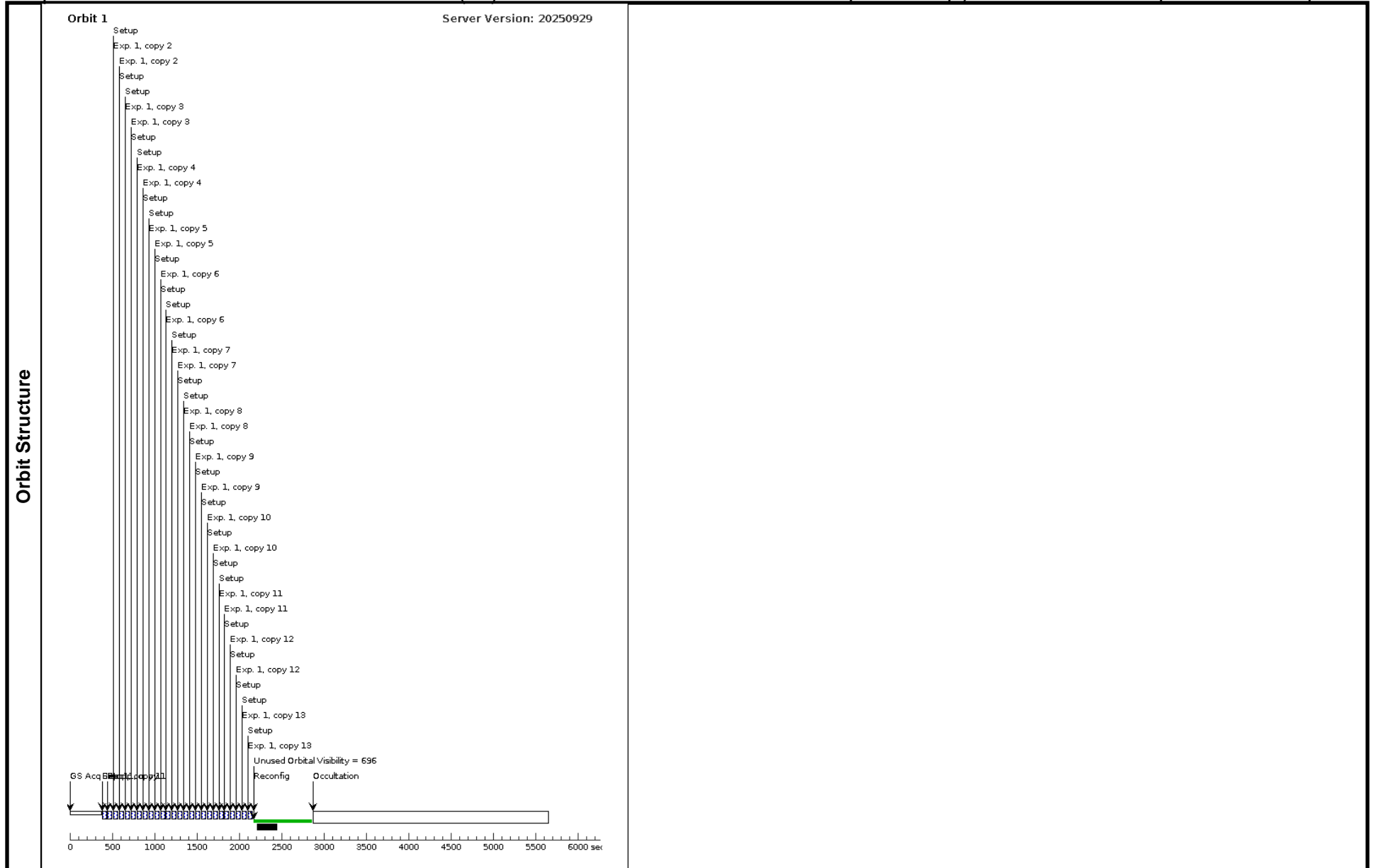
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit		
Exposures	1	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Instant in WFC3 TOI-4336.01 Visit 2 (57)	29.663763 Secs X 18 (1067.895 Secs)	[1]	
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Proposal 16875 - WFC3 TOI-4336.01 Visit 2 (58) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Fri Dec 05 15:01:03 GMT 2025

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 2 (58), implementation Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 55; AFTER 57 BY 0.9 Orbits TO 1.1 Orbits <i>Comments: HOPR repeat of visit 08.</i>																																																																																																																																																																																																																																																																																																	
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Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	WFC3 TOI-4336.01	(1) UCAC4-249-060094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14, 90.0 Degrees, Round trip	Sequence 1-1 Non-Int in WFC3 TOI-4336.01 Visit 2 (58)	29.663763 Secs X 13 (771.258 Secs)	[1]									[=>(Copy 1, Forward)]										[=>(Copy 1, Reverse)]										[=>(Copy 2, Forward)]										[=>(Copy 2, Reverse)]										[=>(Copy 3, Forward)]										[=>(Copy 3, Reverse)]										[=>(Copy 4, Forward)]										[=>(Copy 4, Reverse)]										[=>(Copy 5, Forward)]										[=>(Copy 5, Reverse)]										[=>(Copy 6, Forward)]										[=>(Copy 6, Reverse)]										[=>(Copy 7, Forward)]										[=>(Copy 7, Reverse)]										[=>(Copy 8, Forward)]										[=>(Copy 8, Reverse)]										[=>(Copy 9, Forward)]										[=>(Copy 9, Reverse)]										[=>(Copy 10, Forward)]										[=>(Copy 10, Reverse)]										[=>(Copy 11, Forward)]										[=>(Copy 11, Reverse)]										[=>(Copy 12, Forward)]										[=>(Copy 12, Reverse)]										[=>(Copy 13, Forward)]										[=>(Copy 13, Reverse)]	
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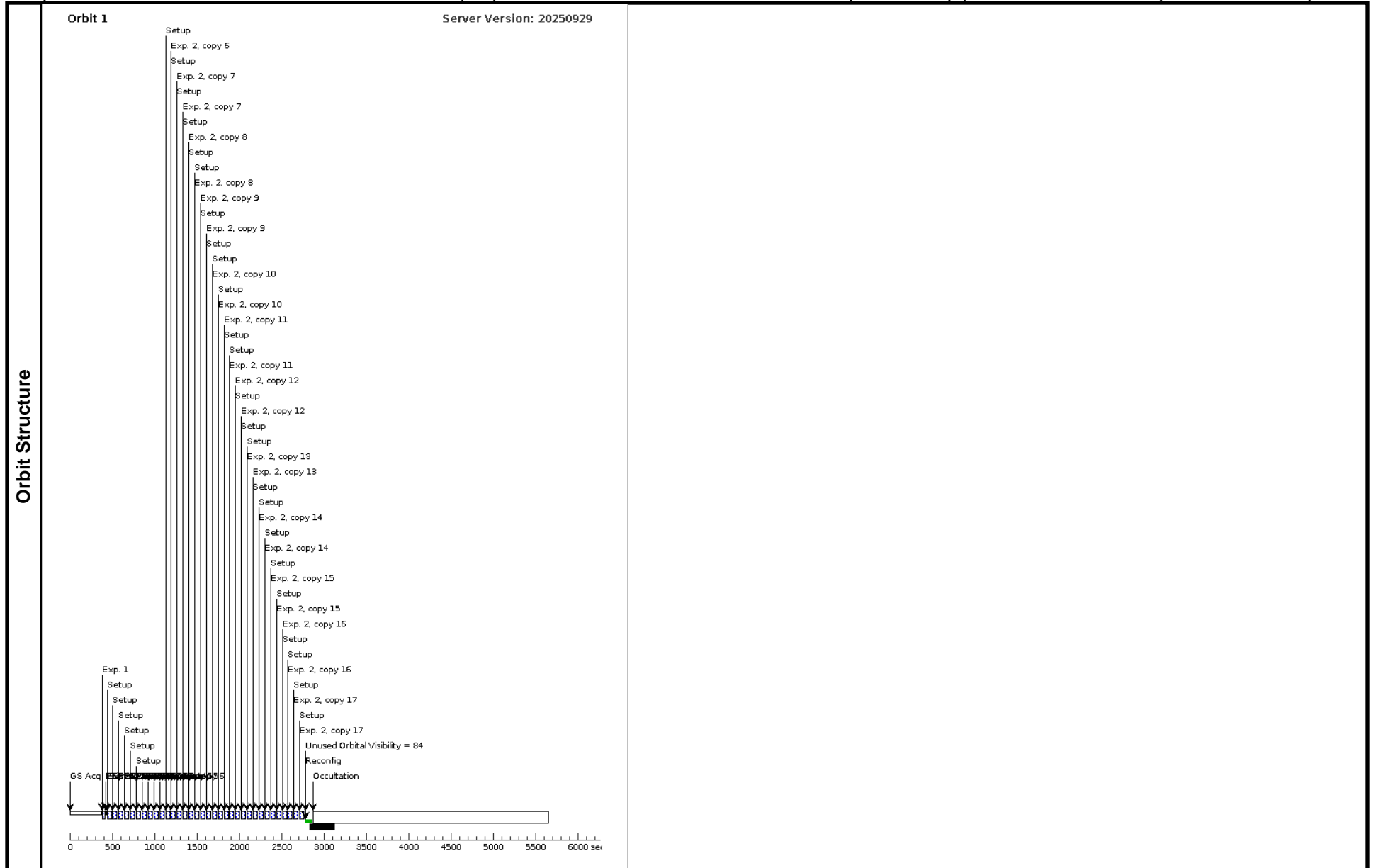
Proposal 16875 - WFC3 TOI-4336.01 Visit 3 (09) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 3 (09), completed Fri Dec 05 15:01:03 GMT 2025 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ORIENT 116D TO 116 D; ORIENT 275D TO 280 D; Period 16.3362920 D AND ZERO-PHASE HJD2459335.572603					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS
Comments: Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]						

Proposal 16875 - WFC3 TOI-4336.01 Visit 3 (09) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WFC3 TOI-4336.01 Acquisition	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	F139M	NSAMP=3; SAMP-SEQ=RAPID	PHASE 0.99013884 37872132 TO 0.9940 156325043705	Sequence 1-2 Non-Int in WFC3 TOI-4336.01 Visit 3 (09)	0.833445 Secs (0.833 Secs) [==>]	[1]
2	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.1 4,90.0 Degrees, Round trip	Sequence 1-2 Non-Int in WFC3 TOI-4336.01 Visit 3 (09)	29.663763 Secs X 17 (1008.568 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)] [==>(Copy 11, Forward)] [==>(Copy 11, Reverse)] [==>(Copy 12, Forward)] [==>(Copy 12, Reverse)] [==>(Copy 13, Forward)] [==>(Copy 13, Reverse)] [==>(Copy 14, Forward)] [==>(Copy 14, Reverse)] [==>(Copy 15, Forward)] [==>(Copy 15, Reverse)] [==>(Copy 16, Forward)] [==>(Copy 16, Reverse)] [==>(Copy 17, Forward)] [==>(Copy 17, Reverse)]	[1]

Exposures

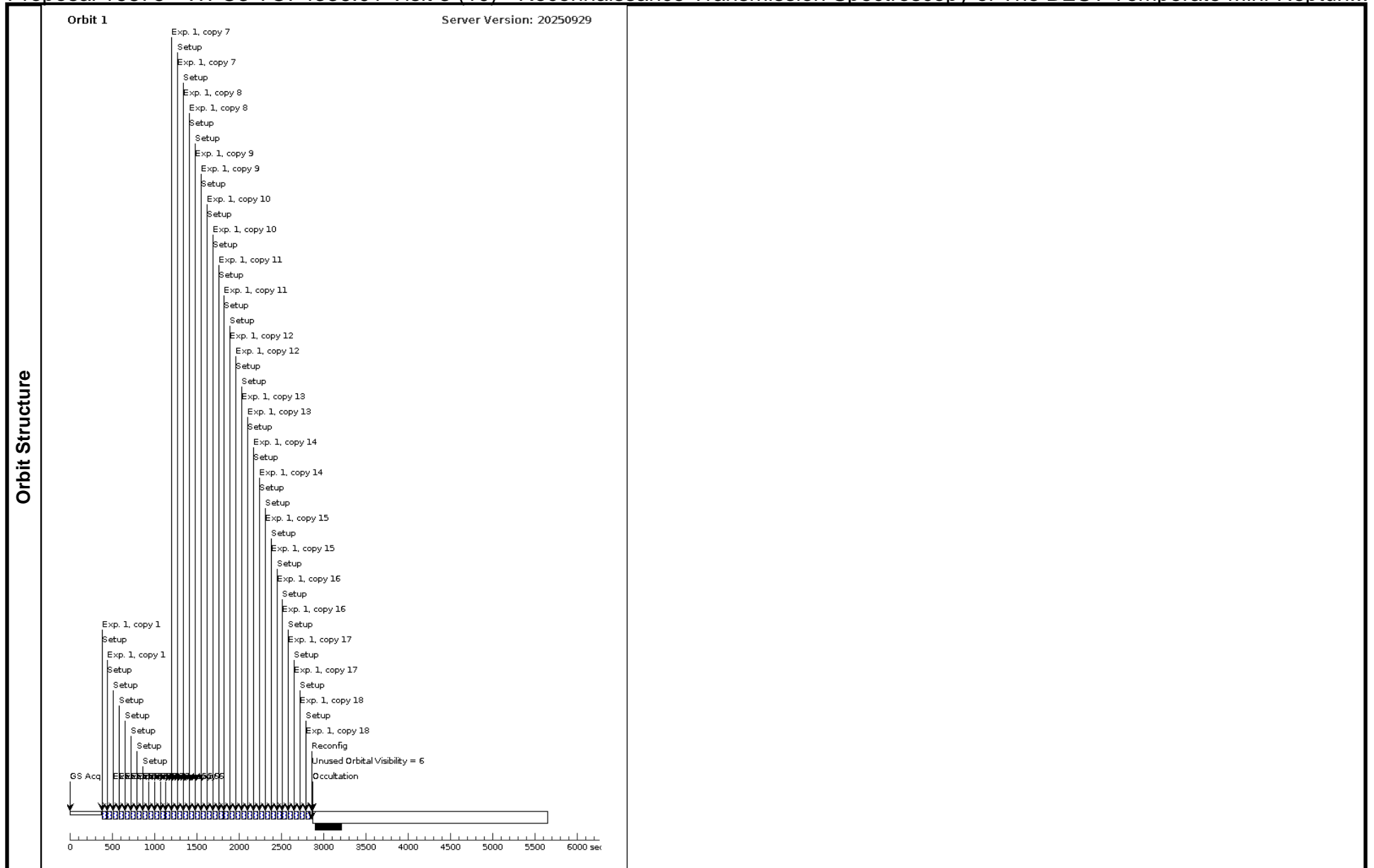


Proposal 16875 - WFC3 TOI-4336.01 Visit 3 (10) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 3 (10), completed Fri Dec 05 15:01:03 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 09; AFTER 09 BY 0.9 Orbits TO 1.1 Orbits																	
	(WFC3 TOI-4336.01 Visit 3 (10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																	
Diagnosics																		
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>UCAC4-249-060094</td> <td> RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000 </td> <td> Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000 </td> <td>V=12.89</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS					
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Proposal 16875 - WFC3 TOI-4336.01 Visit 3 (10) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Int in WFC3 TOI-4336.01 Visit 3 (10)	29.663763 Secs X 18 (1067.895 Secs)	[1]
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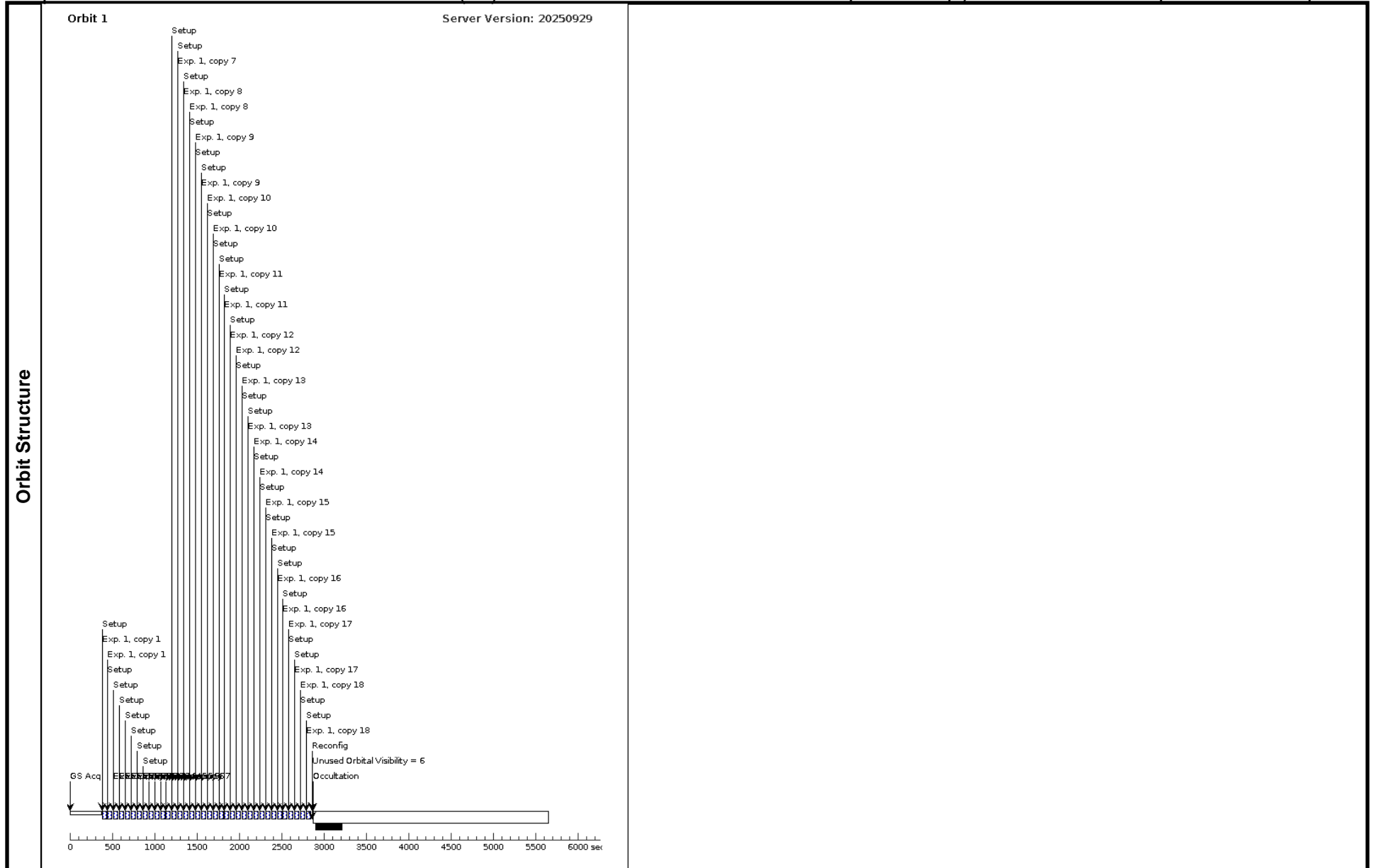


Proposal 16875 - WFC3 TOI-4336.01 Visit 3 (11) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 3 (11), completed Fri Dec 05 15:01:03 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 09; AFTER 10 BY 0.9 Orbits TO 1.1 Orbits																	
	(WFC3 TOI-4336.01 Visit 3 (11)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																	
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Proposal 16875 - WFC3 TOI-4336.01 Visit 3 (11) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Int in WFC3 TOI-4336.01 Visit 3 (11)	29.663763 Secs X 18 (1067.895 Secs)	[1]
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Proposal 16875 - WFC3 TOI-4336.01 Visit 3 (12) - Reconnaissance Transmission Spectroscopy of The BEST Temperate Mini-Neptun...

Visit	Proposal 16875, WFC3 TOI-4336.01 Visit 3 (12), completed Fri Dec 05 15:01:03 GMT 2025 Diagnostic Status: Informational Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; SAME ORIENT AS 09; AFTER 11 BY 0.9 Orbits TO 1.1 Orbits																	
	(WFC3 TOI-4336.01 Visit 3 (12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																	
Diagnosics																		
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>UCAC4-249-060094</td> <td> RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000 </td> <td> Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000 </td> <td>V=12.89</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	UCAC4-249-060094	RA: 13 44 25.4777 (206.1061571d) Dec: -40 20 15.53 (-40.33765d) Equinox: J2000	Proper Motion RA: 151.518 mas/yr Proper Motion Dec: 69.023 mas/yr Epoch of Position: 2000	V=12.89	Reference Frame: ICRS					
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Comments: Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, M V-IV]																		

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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	WFC3 TOI-4336.01	(1) UCAC4-249-060 094	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=5; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.14,90.0 Degrees,Rounded trip	Sequence 1-1 Non-Int in WFC3 TOI-4336.01 Visit 3 (12)	29.663763 Secs X 18 (1067.895 Secs)	
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