



15698 - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

Cycle: 26, Proposal Category: GO
(Availability Mode: AVAILABLE)

INVESTIGATORS

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Dr. Marcia J. Rieke (CoI)	University of Arizona	mrieke@as.arizona.edu

VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) HD-219666	WFC3/IR	1	05-Nov-2019 10:01:03.0	yes
02	(1) HD-219666	WFC3/IR	1	05-Nov-2019 10:01:07.0	yes
03	(1) HD-219666	WFC3/IR	1	05-Nov-2019 10:01:10.0	yes
04	(1) HD-219666	WFC3/IR	1	05-Nov-2019 10:01:14.0	yes
05	(1) HD-219666	WFC3/IR	1	05-Nov-2019 10:01:17.0	yes
06	(1) HD-219666	WFC3/IR	1	05-Nov-2019 10:01:21.0	yes
07	(1) HD-219666	WFC3/IR	1	05-Nov-2019 10:01:24.0	yes
08	(1) HD-219666	WFC3/IR	1	05-Nov-2019 10:01:28.0	yes

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51	(1) HD-219666	WFC3/IR	1	05-Nov-2019 10:01:31.0	yes
52	(1) HD-219666	WFC3/IR	1	05-Nov-2019 10:01:35.0	yes
53	(1) HD-219666	WFC3/IR	1	05-Nov-2019 10:01:39.0	yes
54	(1) HD-219666	WFC3/IR	1	05-Nov-2019 10:01:43.0	yes

12 Total Orbits Used

ABSTRACT

We propose to use 8 orbits of HST time to observe three transits of the recently discovered hot Neptune HD 219666 b using WFC3/G141. The first goal of these observations will be to determine the degree to which the presence of clouds can mute the spectral features, and specifically gauge its suitability for JWST atmospheric observations. This motivates our request for mid-cycle time, since we wish to ascertain HD 219666 b's cloudiness prior to the re-submission of the JWST GTO targets in July 2019. Second, and more broadly, we wish to determine the degree of envelope metal enrichment (e.g., its metallicity). These measurements will probe chemical processes in HD 219666 b's atmosphere and shed light on its formation, adding a critical piece to our sparse understanding of hot Neptunes.

OBSERVING DESCRIPTION

These observations are a pair of transit observations of the planet HD 219666 b using WFC3/G141 in grism scanning mode. I have patterned these observations off the WASP-18 WFC3/G141 observations described in Arcangeli+2018, who used GRISM512, NSAMP=15, and SPARS10. The combination of GRISM512 and SPARS10 is not an officially supported combination according to both APT and the WFC3 handbook (Table 7.9), but the Contact Scientist for these observations (Kevin Stevenson) has approved the use of GRISM512/SPARS10 for these observations.

I have split each transit observation up so that each orbit is its own visit in APT (and we need 4 orbits per transit). Making each orbit its own "visit" forces WFC3 to do a full buffer dump during occultation, which allows us to then observe continuously with the 512 subarray during the following orbit. Making a "traditional" observing plan where all 4 orbits per transit are in a single visit doesn't trigger the full buffer dump during occultation, and so for orbits #2, #3, and #4 we get a full dump in the middle of the time when the target is visible and lose about 6 minutes of observing time.

I've sequenced the individual orbit-visits so that they should be forced to all occur immediately after the first orbit-visit in each group. That is,

Proposal 15698 (STScI Edit Number: 9, Created: Tuesday, November 5, 2019 at 10:01:43 AM Eastern Standard Time) - Overview

Transit 1.1, Transit 1.2, Transit 1.3 and Transit 1.4 should all go one after the other, so that we get 4 continuous orbits for Transit 1 (which starts based on the phase constraints on Transit 1.1).

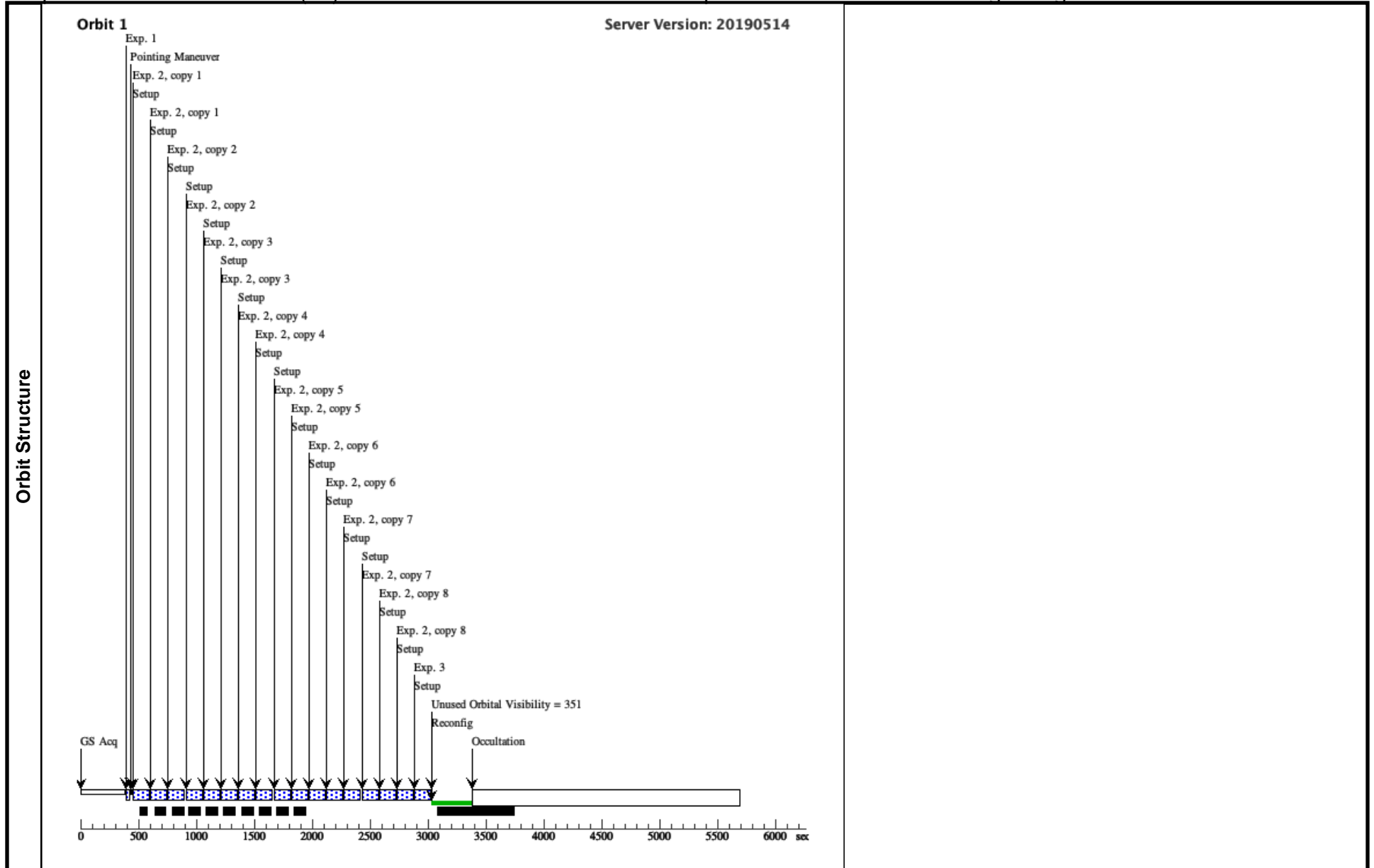
This is patterned after GO-13338, who did the same one orbit per visit scheme to force buffer dumps.

Proposal 15698 - Transit 1.1 (01) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

Tue Nov 05 15:01:43 GMT 2019

Visit	Proposal 15698, Transit 1.1 (01), failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 30%; ORIENT 90D TO 180 D; ORIENT 270D TO 360 D; Period 6.03607 D AND ZERO-PHASE HJD2458329.1996; SEQ 01,02,03,04 WITHIN 4 Orbits																																								
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Proposal 15698 - Transit 1.1 (01) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star



Proposal 15698 - Transit 1.2 (02) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

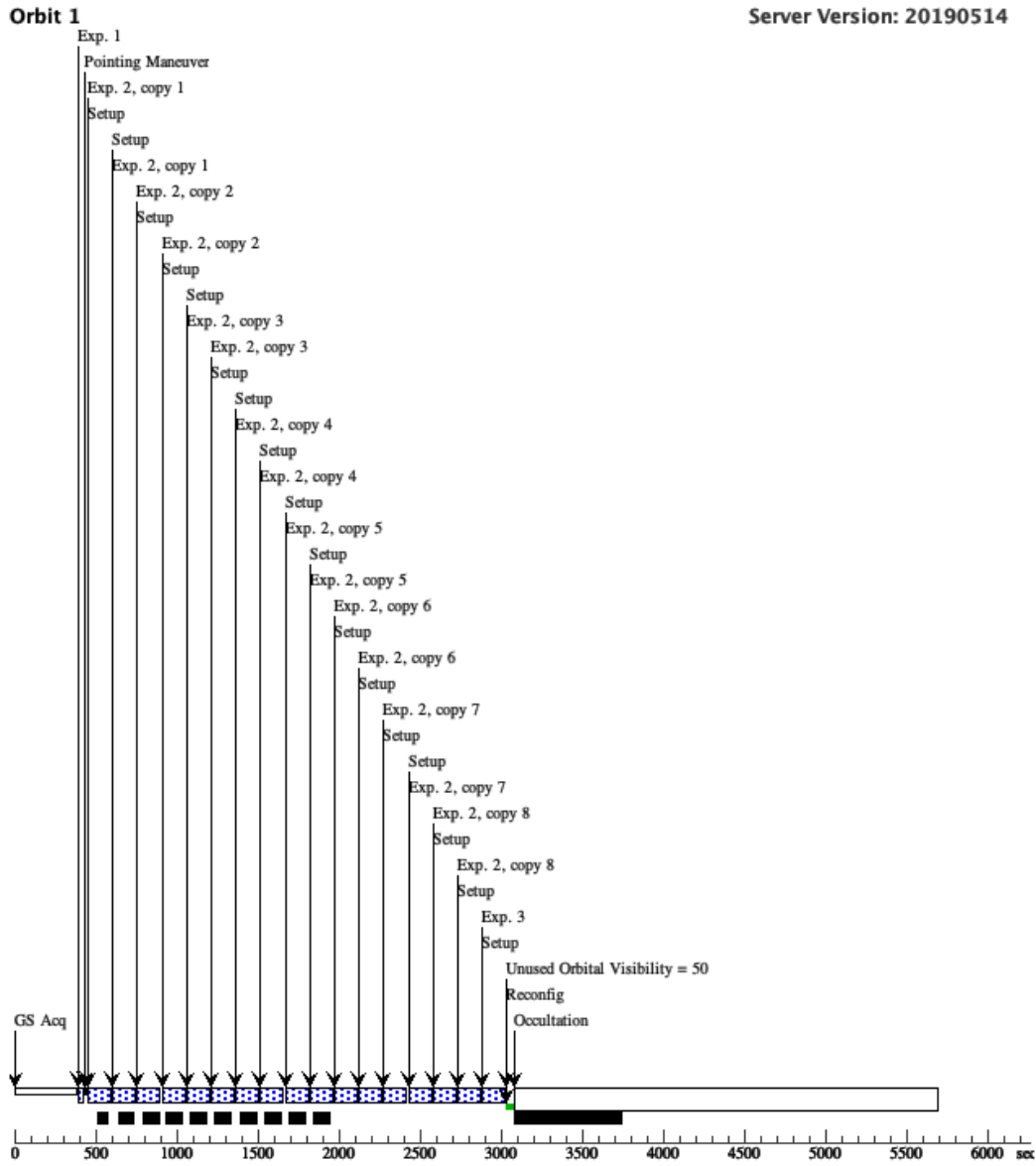
Tue Nov 05 15:01:44 GMT 2019

Visit	Proposal 15698, Transit 1.2 (02), failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 80%; SAME ORIENT AS 01									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	HD-219666	RA: 23 18 13.6299 (349.5567913d) Dec: -56 54 14.04 (-56.90390d) Equinox: J2000	Proper Motion RA: 313.918 mas/yr Proper Motion Dec: -20.177 mas/yr Parallax: 0.01059" Epoch of Position: 2015.5	V=9.81 H=8.254	Reference Frame: SIMBAD				
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	1	Image	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	F126N	NSAMP=2; SAMP-SEQ=RAPID		Sequence 1-3 Non-Int in Transit 1.2 (02)	1.706054 Secs (1.706 Secs) [==>]	[1]
	2	Scanning	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=15; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.2 17,90.0 Degrees, Round trip	Sequence 1-3 Non-Int in Transit 1.2 (02)	111.756813 Secs X 8 (1788.109 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)]	[1]
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Proposal 15698 - Transit 1.2 (02) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

Server Version: 20190514

Orbit Structure

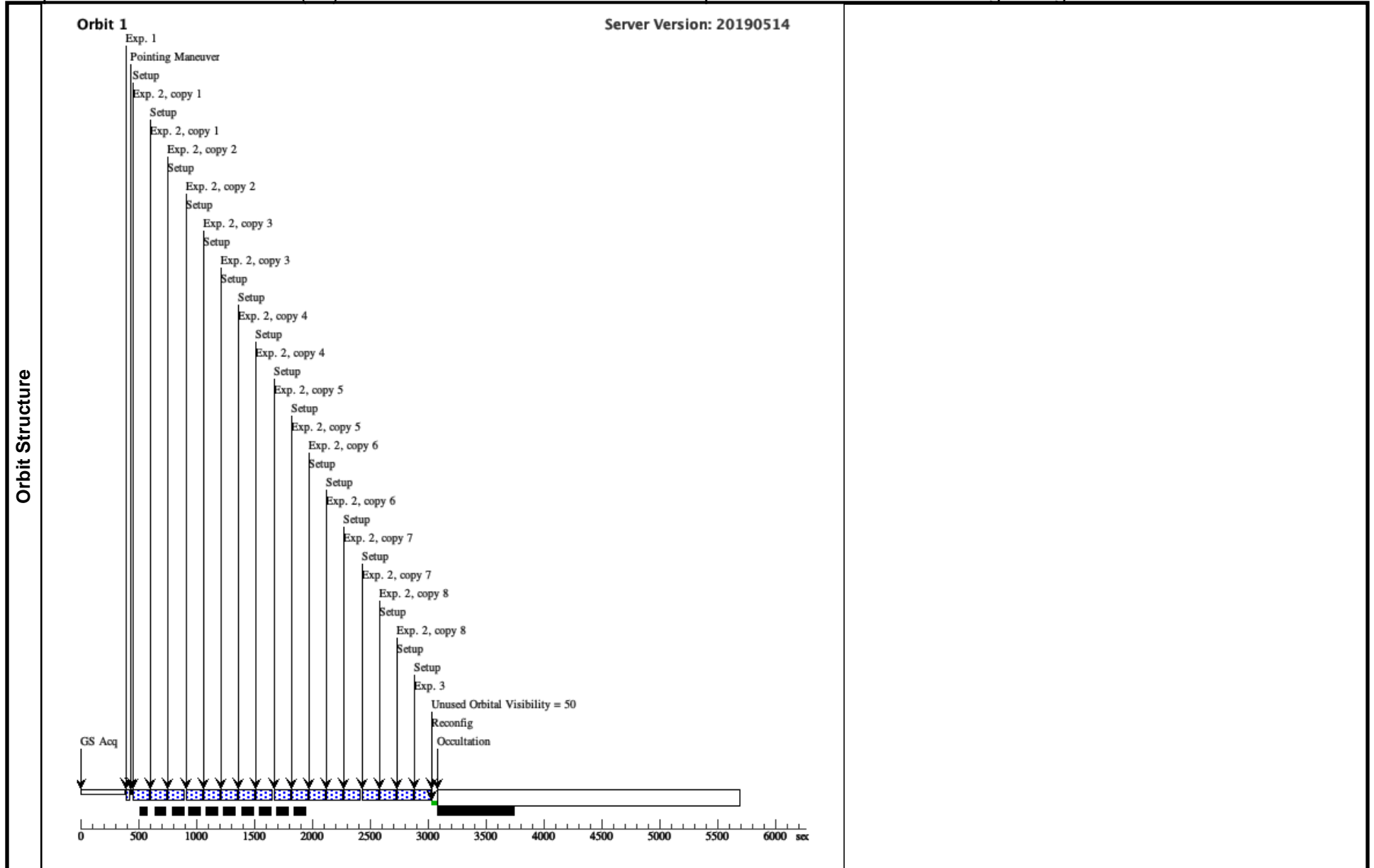


Proposal 15698 - Transit 1.3 (03) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

Tue Nov 05 15:01:44 GMT 2019

Visit	Proposal 15698, Transit 1.3 (03), failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 80%; SAME ORIENT AS 01; AFTER 02																																																	
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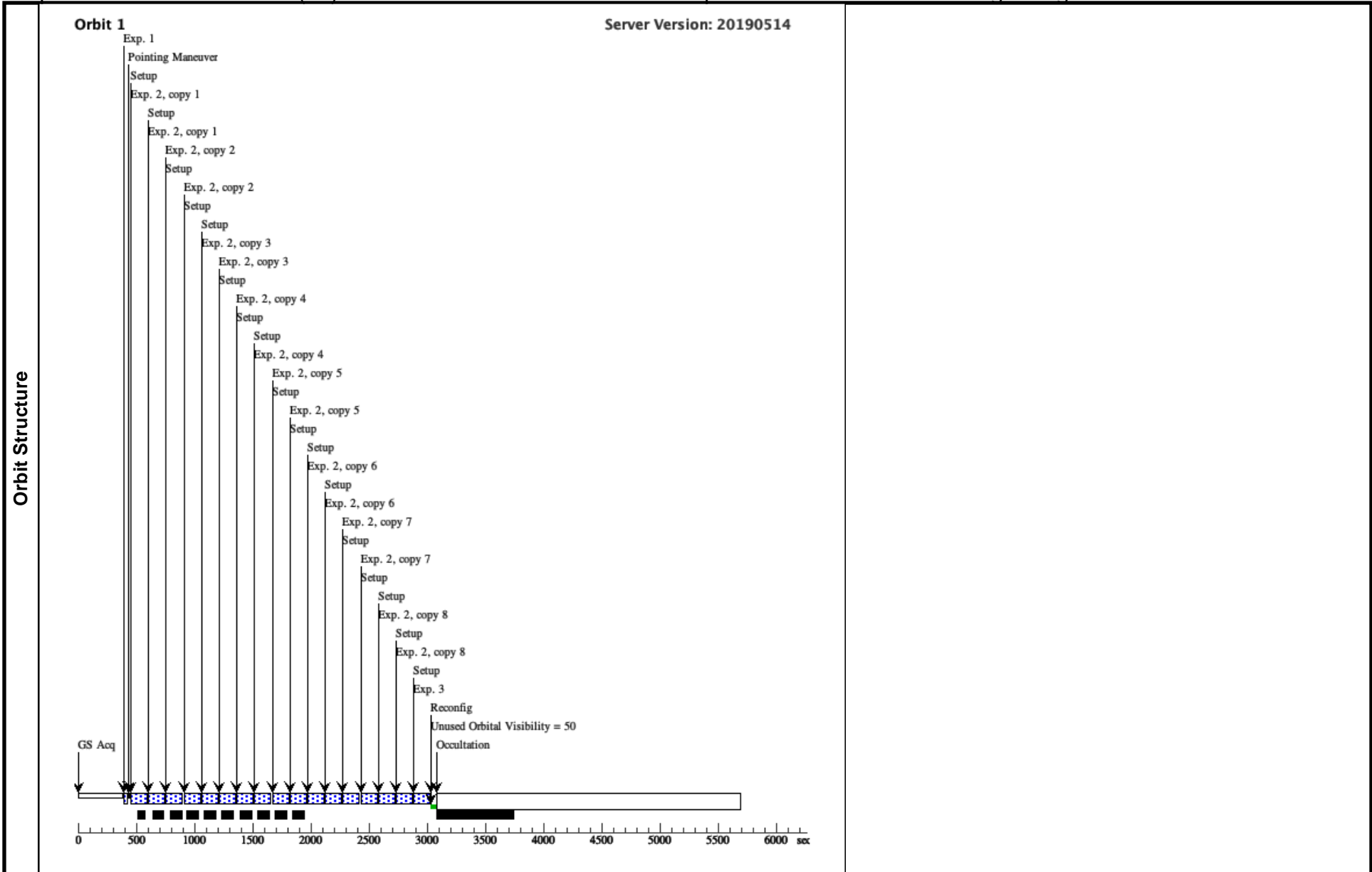
Proposal 15698 - Transit 1.3 (03) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star



Proposal 15698 - Transit 1.4 (04) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

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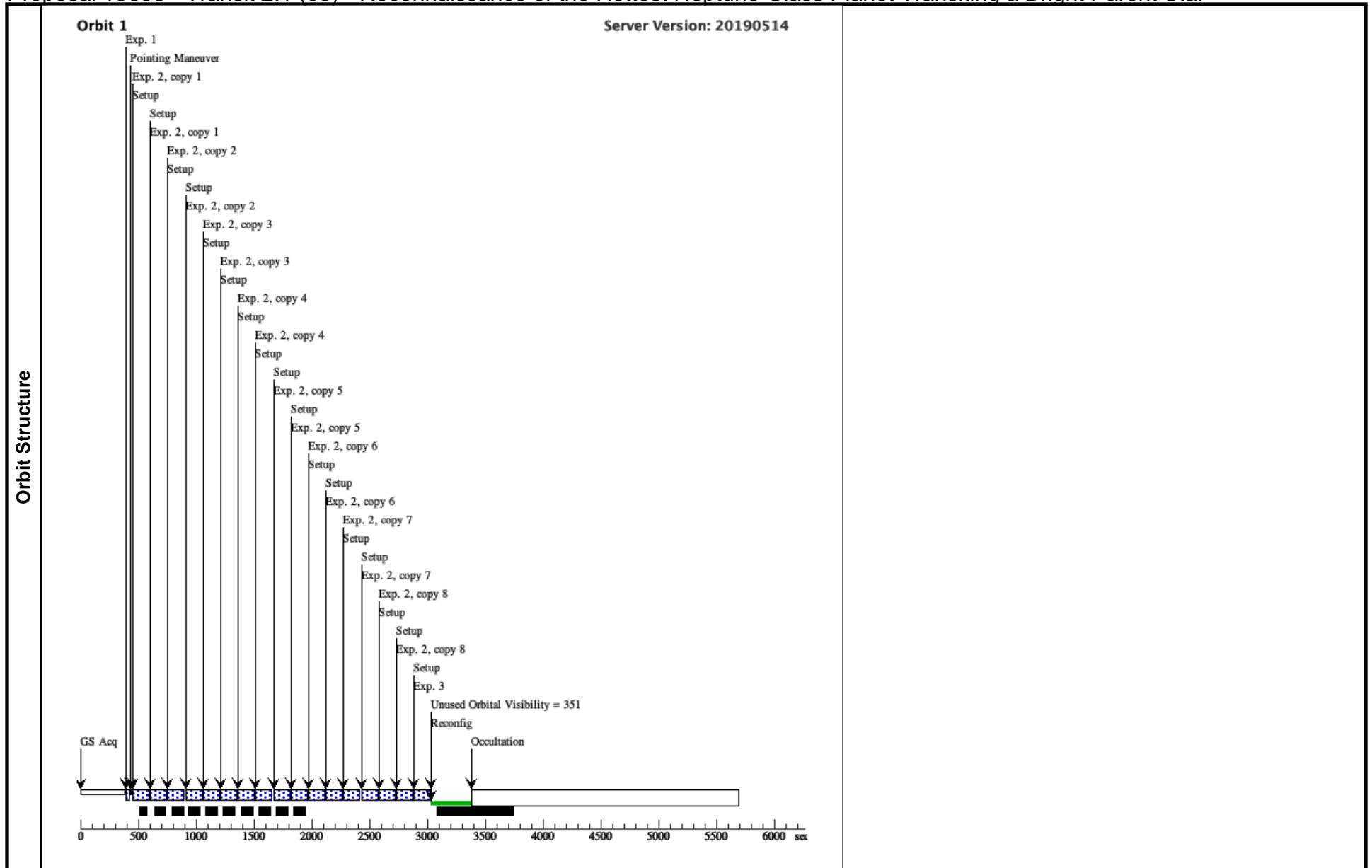


Proposal 15698 - Transit 2.1 (05) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

Tue Nov 05 15:01:44 GMT 2019

Visit	Proposal 15698, Transit 2.1 (05), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 30%; ORIENT 60D TO 200 D; ORIENT 270D TO 360 D; Period 6.0343926 D AND ZERO-PHASE HJD2458329.2023619385; SEQ 05,06,07,08 WITHIN 4 Orbits																																								
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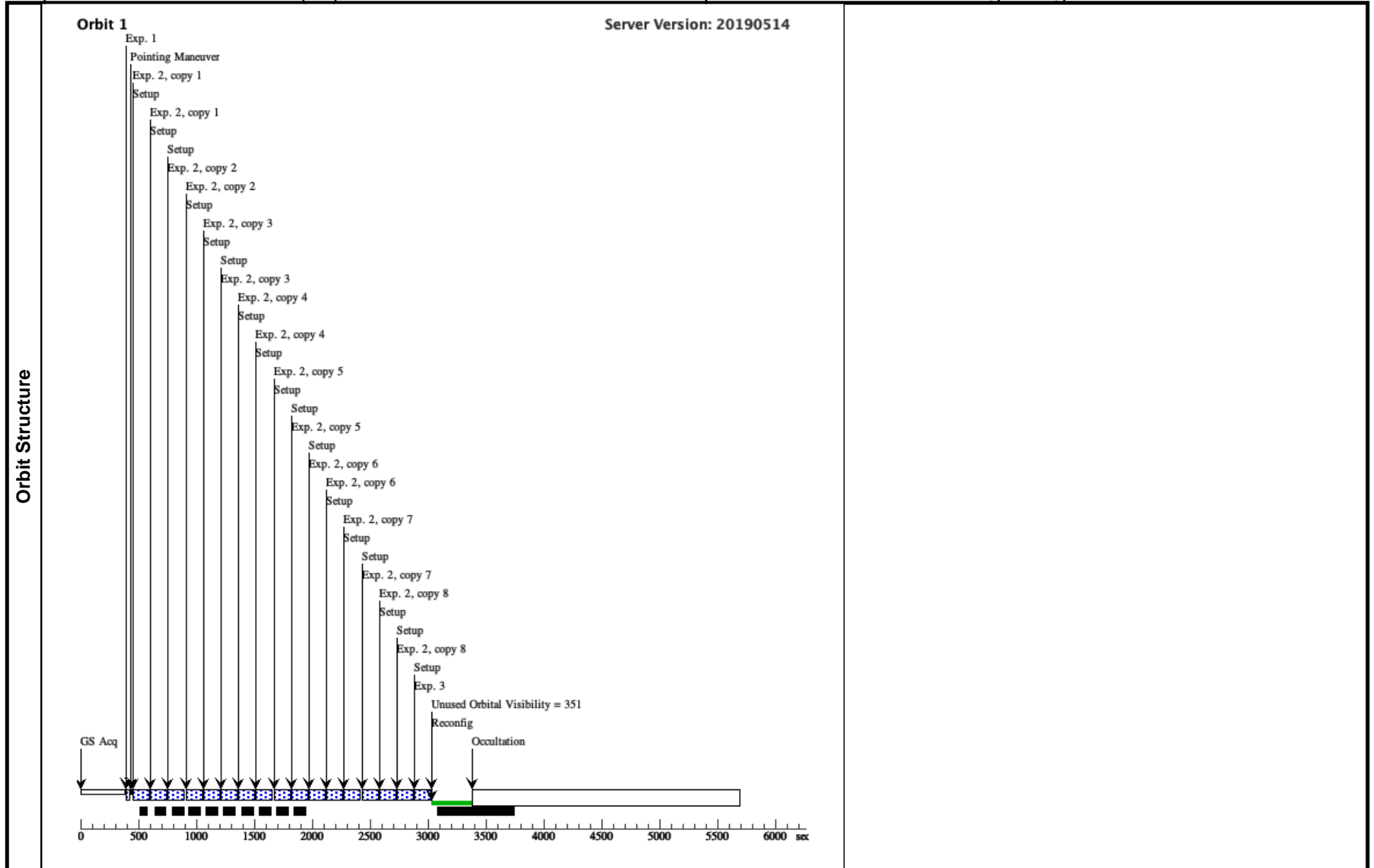
Proposal 15698 - Transit 2.1 (05) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star



Proposal 15698 - Transit 2.2 (06) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

Tue Nov 05 15:01:44 GMT 2019

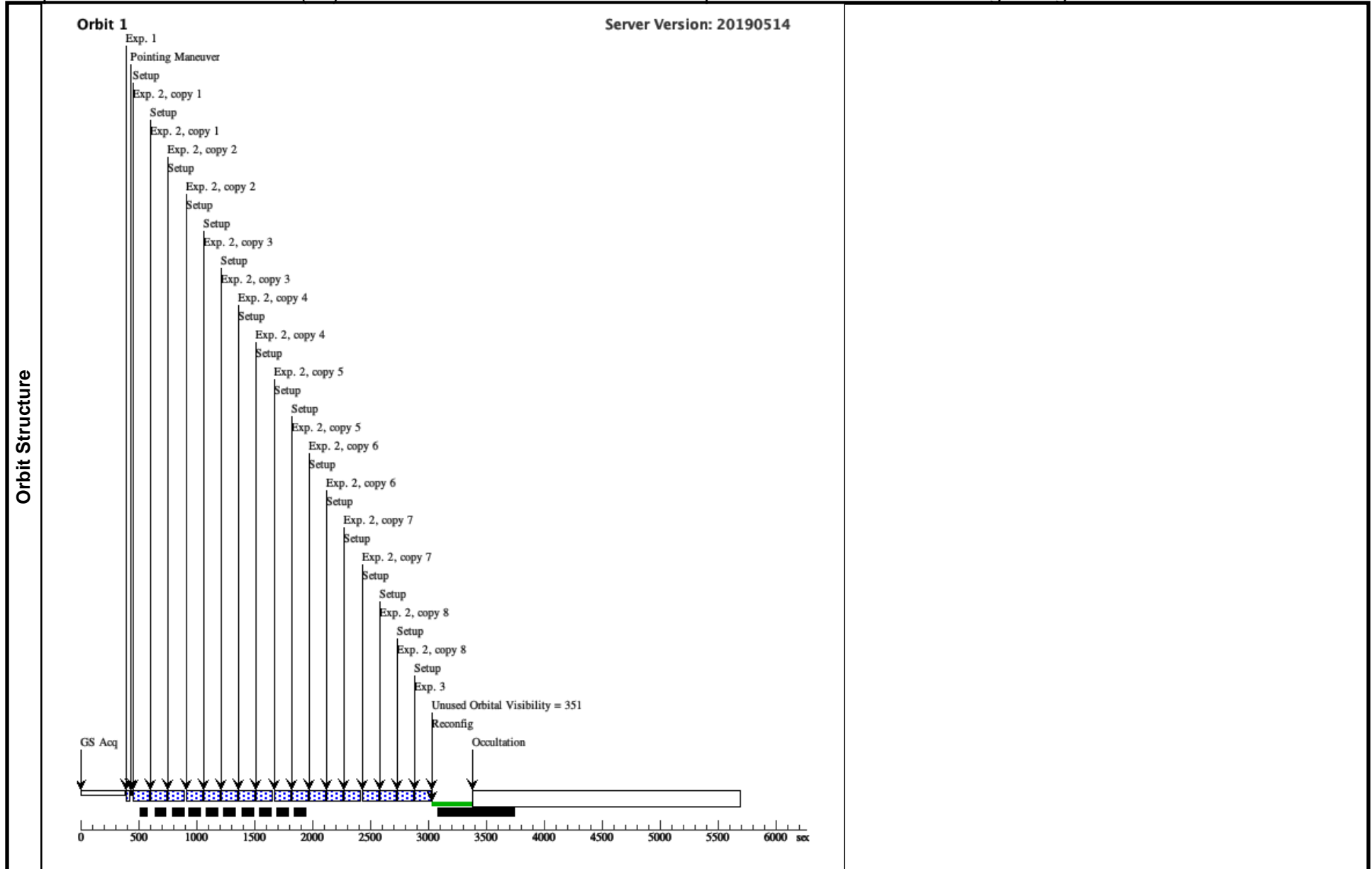
Visit	Proposal 15698, Transit 2.2 (06), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 30%; SAME ORIENT AS 05									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	HD-219666	RA: 23 18 13.6299 (349.5567913d) Dec: -56 54 14.04 (-56.90390d) Equinox: J2000	Proper Motion RA: 313.918 mas/yr Proper Motion Dec: -20.177 mas/yr Parallax: 0.01059" Epoch of Position: 2015.5	V=9.81 H=8.254	Reference Frame: SIMBAD				
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Image	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	F126N	NSAMP=2; SAMP-SEQ=RAPID	GS ACQ SCENARIO BASE1BE	Sequence 1-3 Non-Int in Transit 2.2 (06)	1.706054 Secs (1.706 Secs) [==>]	[1]
	2	Scanning	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=15; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.2 15,90.0 Degrees, Round trip	Sequence 1-3 Non-Int in Transit 2.2 (06)	111.756813 Secs X 8 (1788.109 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)]	[1]
	3	Scan once	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=15; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.2 15,90.0 Degrees, Forward	Sequence 1-3 Non-Int in Transit 2.2 (06)	111.756813 Secs (111.757 Secs) [==>]	[1]



Proposal 15698 - Transit 2.3 (07) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

Tue Nov 05 15:01:44 GMT 2019

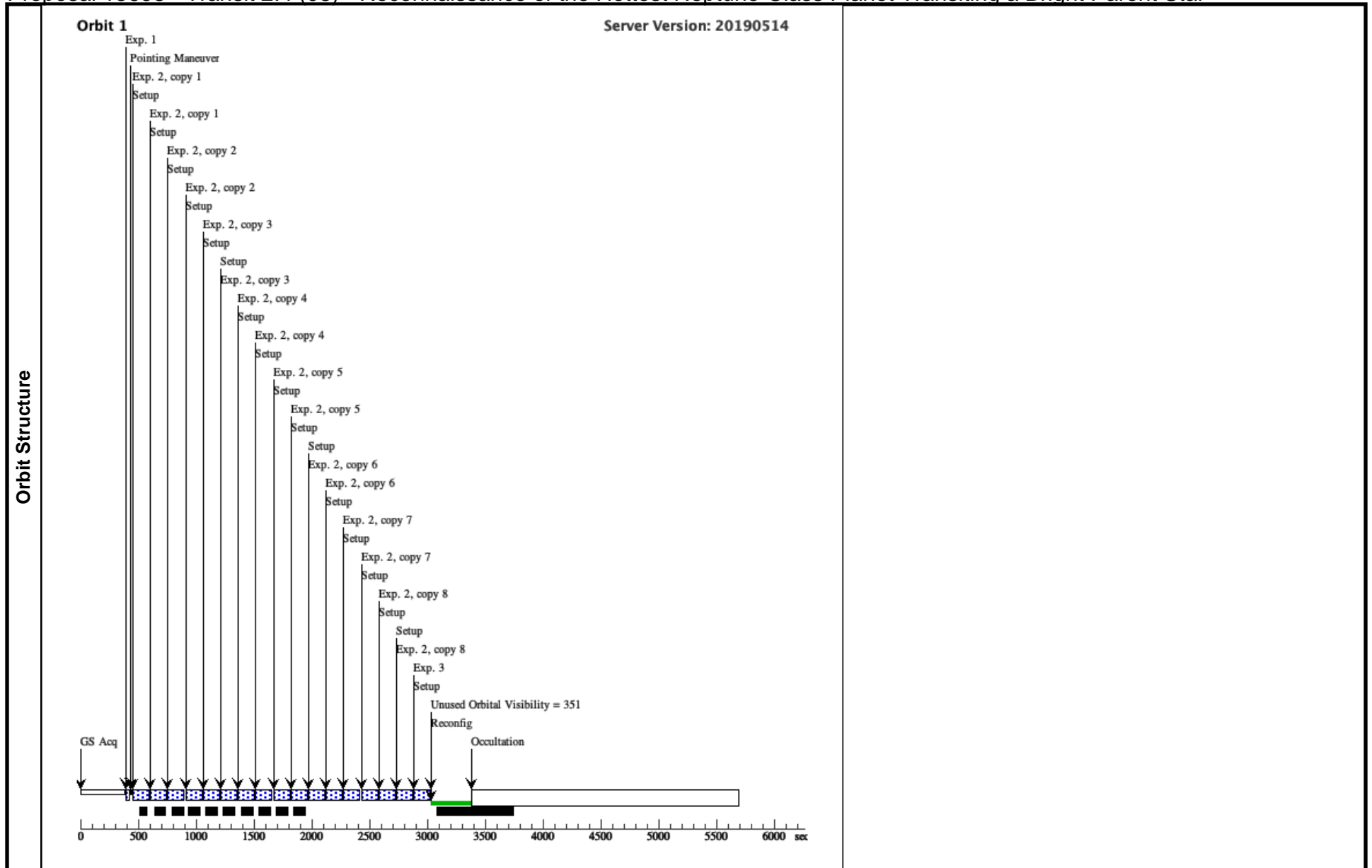
Visit	Proposal 15698, Transit 2.3 (07), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 30%; SAME ORIENT AS 05																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HD-219666</td> <td>RA: 23 18 13.6299 (349.5567913d) Dec: -56 54 14.04 (-56.90390d) Equinox: J2000</td> <td>Proper Motion RA: 313.918 mas/yr Proper Motion Dec: -20.177 mas/yr Parallax: 0.01059" Epoch of Position: 2015.5</td> <td>V=9.81 H=8.254</td> <td>Reference Frame: SIMBAD</td> </tr> <tr> <td colspan="6"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> ***** I've manually updated the positions and proper motions from Gaia DR2 ***** Category=STAR Description=[G V-IV] Extended=NO </td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-219666	RA: 23 18 13.6299 (349.5567913d) Dec: -56 54 14.04 (-56.90390d) Equinox: J2000	Proper Motion RA: 313.918 mas/yr Proper Motion Dec: -20.177 mas/yr Parallax: 0.01059" Epoch of Position: 2015.5	V=9.81 H=8.254	Reference Frame: SIMBAD	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> ***** I've manually updated the positions and proper motions from Gaia DR2 ***** Category=STAR Description=[G V-IV] Extended=NO				
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	1	Image	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	F126N	NSAMP=2; SAMP-SEQ=RAPID	GS ACQ SCENARIO BASE1BE	Sequence 1-3 Non-Int in Transit 2.3 (07)	1.706054 Secs (1.706 Secs) [==>]	[1]									
	2	Scanning	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=15; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.2 15,90.0 Degrees, Round trip	Sequence 1-3 Non-Int in Transit 2.3 (07)	111.756813 Secs X 8 (1788.109 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)]	[1]									
	3	Scan once	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=15; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.2 15,90.0 Degrees, Forward	Sequence 1-3 Non-Int in Transit 2.3 (07)	111.756813 Secs (111.757 Secs) [==>]	[1]									



Proposal 15698 - Transit 2.4 (08) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

Tue Nov 05 15:01:44 GMT 2019

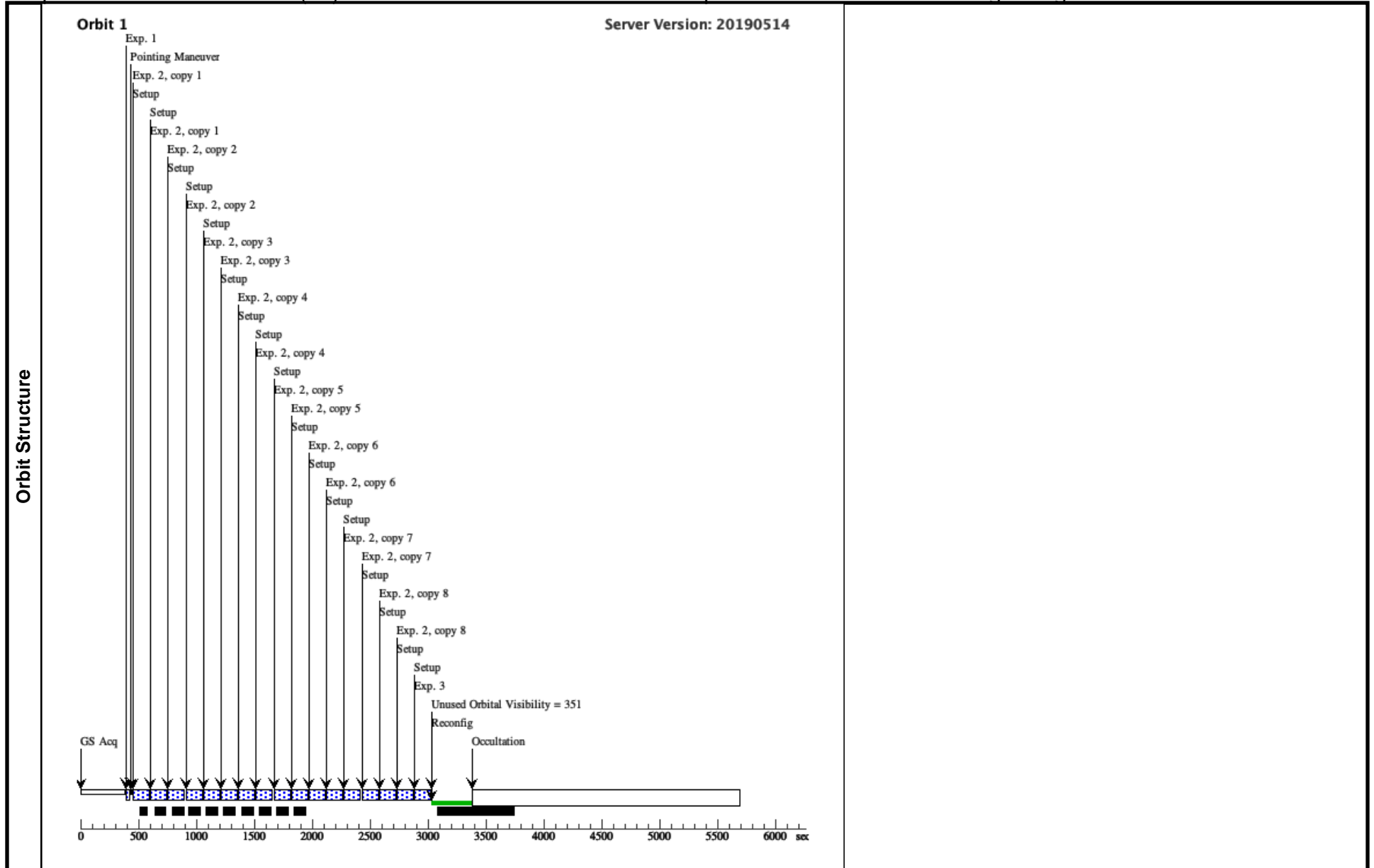
Visit	Proposal 15698, Transit 2.4 (08), scheduled Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 30%; SAME ORIENT AS 05									
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Fixed Targets	(1)	HD-219666	RA: 23 18 13.6299 (349.5567913d) Dec: -56 54 14.04 (-56.90390d) Equinox: J2000	Proper Motion RA: 313.918 mas/yr Proper Motion Dec: -20.177 mas/yr Parallax: 0.01059" Epoch of Position: 2015.5	V=9.81 H=8.254	Reference Frame: SIMBAD				
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	1	Image	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	F126N	NSAMP=2; SAMP-SEQ=RAPID	GS ACQ SCENARIO BASE1BE	Sequence 1-3 Non-Int in Transit 2.4 (08)	1.706054 Secs (1.706 Secs) [==>]	[1]
	2	Scanning	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=15; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.2 15,90.0 Degrees, Round trip	Sequence 1-3 Non-Int in Transit 2.4 (08)	111.756813 Secs X 8 (1788.109 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)]	[1]
3	Scan once	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=15; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.2 15,90.0 Degrees, Forward	Sequence 1-3 Non-Int in Transit 2.4 (08)	111.756813 Secs (111.757 Secs) [==>]	[1]	



Proposal 15698 - Transit 3.1 (51) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

Tue Nov 05 15:01:44 GMT 2019

Visit	Proposal 15698, Transit 3.1 (51), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 30%; ORIENT 60D TO 180 D; ORIENT 270D TO 360 D; Period 6.036854 D AND ZERO-PHASE HJD2458329.19848; SEQ 51,52,53,54 WITHIN 4 Orbits																																								
	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>HD-219666</td> <td>RA: 23 18 13.6299 (349.5567913d) Dec: -56 54 14.04 (-56.90390d) Equinox: J2000</td> <td>Proper Motion RA: 313.918 mas/yr Proper Motion Dec: -20.177 mas/yr Parallax: 0.01059" Epoch of Position: 2015.5</td> <td>V=9.81 H=8.254</td> <td>Reference Frame: SIMBAD</td> </tr> <tr> <td colspan="6"> Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. ***** I've manually updated the positions and proper motions from Gaia DR2 ***** Category=STAR Description=[G V-IV] Extended=NO </td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-219666	RA: 23 18 13.6299 (349.5567913d) Dec: -56 54 14.04 (-56.90390d) Equinox: J2000	Proper Motion RA: 313.918 mas/yr Proper Motion Dec: -20.177 mas/yr Parallax: 0.01059" Epoch of Position: 2015.5	V=9.81 H=8.254	Reference Frame: SIMBAD	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. ***** I've manually updated the positions and proper motions from Gaia DR2 ***** Category=STAR Description=[G V-IV] Extended=NO																										
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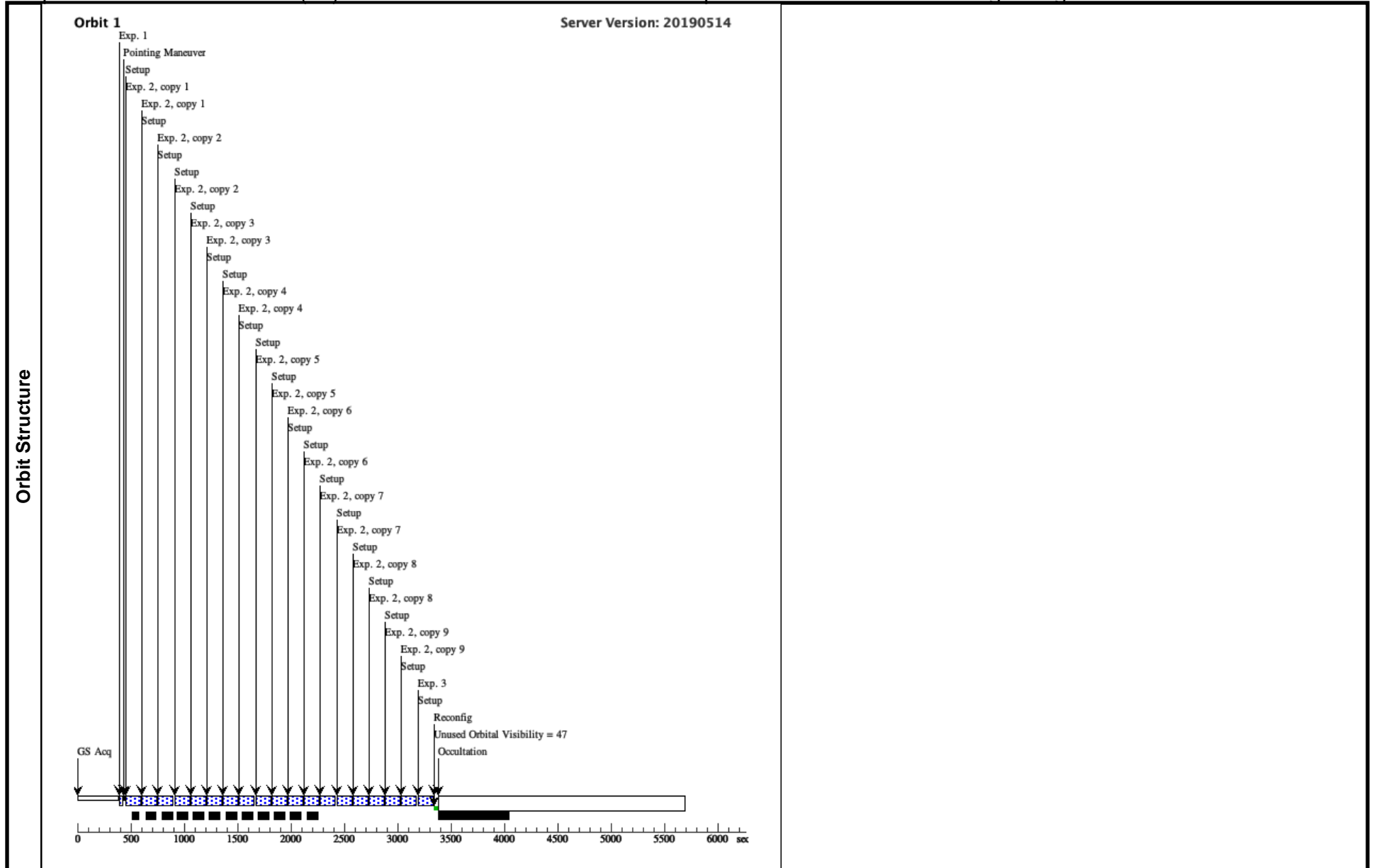


Proposal 15698 - Transit 3.2 (52) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

Tue Nov 05 15:01:44 GMT 2019

Visit	Proposal 15698, Transit 3.2 (52), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 30%; SAME ORIENT AS 51									
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Fixed Targets	(1)	HD-219666	RA: 23 18 13.6299 (349.5567913d) Dec: -56 54 14.04 (-56.90390d) Equinox: J2000	Proper Motion RA: 313.918 mas/yr Proper Motion Dec: -20.177 mas/yr Parallax: 0.01059" Epoch of Position: 2015.5	V=9.81 H=8.254	Reference Frame: SIMBAD				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. ***** I've manually updated the positions and proper motions from Gaia DR2 ***** Category=STAR Description=[G V-IV] Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Image	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	F126N	NSAMP=2; SAMP-SEQ=RAPID		Sequence 1-3 Non-Int in Transit 3.2 (52)	1.706054 Secs (1.706 Secs) [==>]	[1]
	2	Scanning	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=15; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.2 15,90.0 Degrees, Round trip	Sequence 1-3 Non-Int in Transit 3.2 (52)	111.756813 Secs X 9 (2011.623 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)]	[1]
3	Scan once	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=15; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.2 15,90.0 Degrees, Forward	Sequence 1-3 Non-Int in Transit 3.2 (52)	111.756813 Secs (111.757 Secs) [==>]	[1]	

Proposal 15698 - Transit 3.2 (52) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

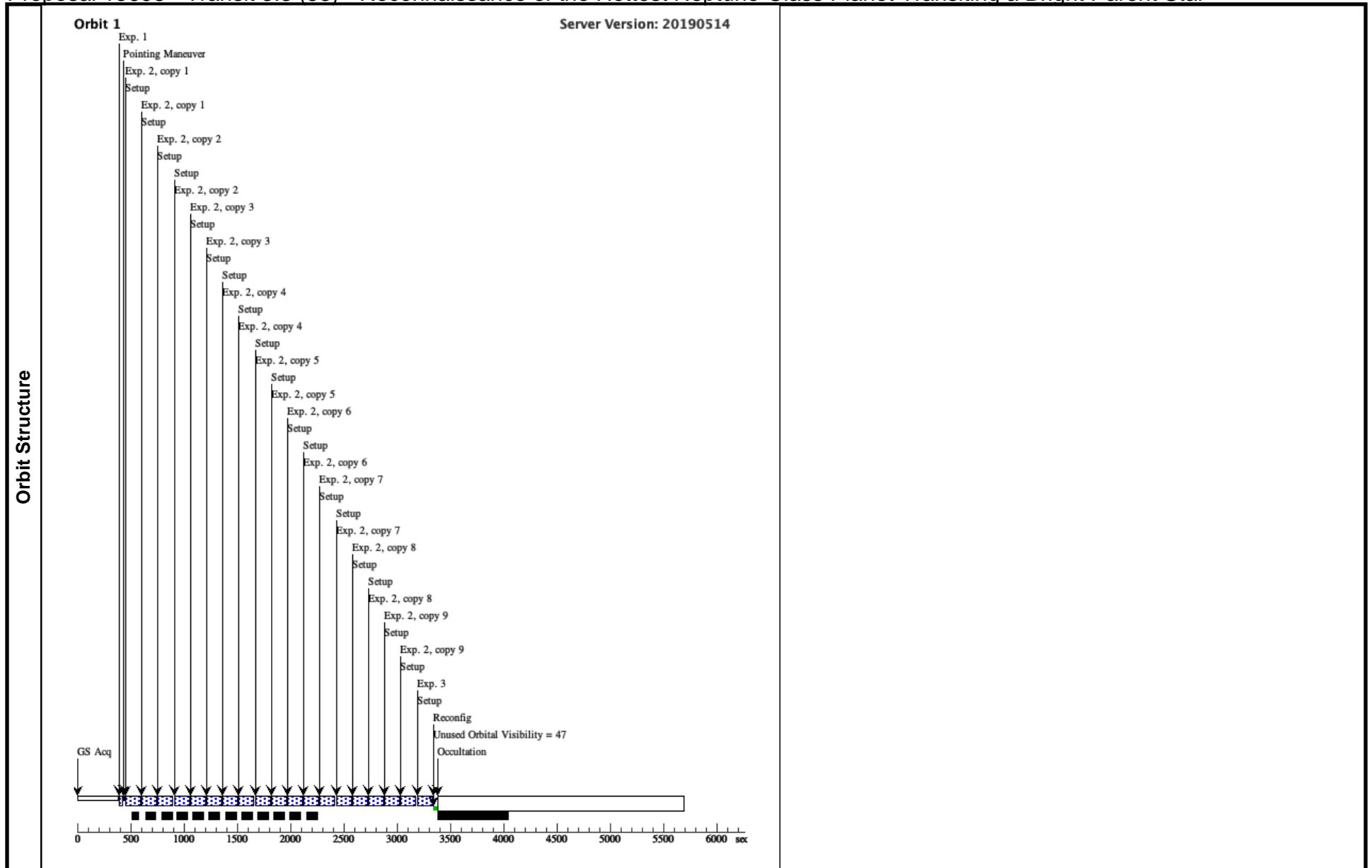


Proposal 15698 - Transit 3.3 (53) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

Tue Nov 05 15:01:44 GMT 2019

Visit	Proposal 15698, Transit 3.3 (53), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 30%; SAME ORIENT AS 51									
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Fixed Targets	(1)	HD-219666	RA: 23 18 13.6299 (349.5567913d) Dec: -56 54 14.04 (-56.90390d) Equinox: J2000	Proper Motion RA: 313.918 mas/yr Proper Motion Dec: -20.177 mas/yr Parallax: 0.01059" Epoch of Position: 2015.5	V=9.81 H=8.254	Reference Frame: SIMBAD				
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Image	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	F126N	NSAMP=2; SAMP-SEQ=RAPID		Sequence 1-3 Non-Int in Transit 3.3 (53)	1.706054 Secs (1.706 Secs) [==>]	[1]
	2	Scanning	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=15; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.2 15,90.0 Degrees, Round trip	Sequence 1-3 Non-Int in Transit 3.3 (53)	111.756813 Secs X 9 (2011.623 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)]	[1]
3	Scan once	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=15; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.2 15,90.0 Degrees, Forward	Sequence 1-3 Non-Int in Transit 3.3 (53)	111.756813 Secs (111.757 Secs) [==>]	[1]	

Proposal 15698 - Transit 3.3 (53) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star



Proposal 15698 - Transit 3.4 (54) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

Tue Nov 05 15:01:44 GMT 2019

Visit	Proposal 15698, Transit 3.4 (54), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 30%; SAME ORIENT AS 51									
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Fixed Targets	(1)	HD-219666	RA: 23 18 13.6299 (349.5567913d) Dec: -56 54 14.04 (-56.90390d) Equinox: J2000	Proper Motion RA: 313.918 mas/yr Proper Motion Dec: -20.177 mas/yr Parallax: 0.01059" Epoch of Position: 2015.5	V=9.81 H=8.254	Reference Frame: SIMBAD				
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	1	Image	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	F126N	NSAMP=2; SAMP-SEQ=RAPID		Sequence 1-3 Non-Int in Transit 3.4 (54)	1.706054 Secs (1.706 Secs) [==>]	[1]
	2	Scanning	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=15; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.2 15,90.0 Degrees, Round trip	Sequence 1-3 Non-Int in Transit 3.4 (54)	111.756813 Secs X 9 (2011.623 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)]	[1]
3	Scan once	(1) HD-219666	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=15; SAMP-SEQ=SPARS10	SPATIAL SCAN 0.2 15,90.0 Degrees, Forward	Sequence 1-3 Non-Int in Transit 3.4 (54)	111.756813 Secs (111.757 Secs) [==>]	[1]	

Proposal 15698 - Transit 3.4 (54) - Reconnaissance of the Hottest Neptune-Class Planet Transiting a Bright Parent Star

