



15628 - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

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

INVESTIGATORS

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VISITS

Proposal 15628 (STScI Edit Number: 6, Created: Tuesday, February 4, 2020 at 12:01:07 PM Eastern Standard Time) - Overview

<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	(9) PSOJ060.3+25	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:23.0	yes
06	(2) TAURUS1	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:24.0	yes
07	(3) TAURUS2	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:25.0	yes
08	(5) TAURUS4	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:26.0	yes
09	(7) TAURUS6	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:27.0	yes
10	(10) PSOJ077.1+25	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:29.0	yes
11	(12) PSO-83844-39056	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:30.0	yes
12	(13) PSO-61720-39121	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:31.0	yes
13	(15) TAURUS8	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:32.0	yes
14	(17) TAURUS9	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:33.0	yes
15	(19) TAURUS12	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:34.0	yes
16	(20) TAURUS13	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:36.0	yes
17	(21) TAURUS14	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:37.0	yes
18	(22) TAURUS15	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:38.0	yes

Proposal 15628 (STScI Edit Number: 6, Created: Tuesday, February 4, 2020 at 12:01:07 PM Eastern Standard Time) - Overview

<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>
19	(26) TAURUS19	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:39.0	yes
20	(27) TAURUS20	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:40.0	yes
21	(28) TAURUS21	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:41.0	yes
22	(29) TAURUS22	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:42.0	yes
23	(31) TAURUS24	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:43.0	yes
24	(32) TAURUS25	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:44.0	yes
25	(33) TAURUS26	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:45.0	yes
32	(43) WBIS2241+1523	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:46.0	yes
33	(44) WBIS6824+2422	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:47.0	yes
34	(45) WBIS1845+2758	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:48.0	yes
35	(46) WBIS3902+2332	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:49.0	yes
36	(47) WBIS5210+3037	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:50.0	yes
37	(48) WBIS2106+2706	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:51.0	yes
87	(48) WBIS2106+2706	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:52.0	yes

Proposal 15628 (STScI Edit Number: 6, Created: Tuesday, February 4, 2020 at 12:01:07 PM Eastern Standard Time) - Overview

<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>
38	(49) WBIS2204+1536	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:53.0	yes
39	(11) PSO-48870-30188	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:54.0	yes
40	(30) TAURUS23	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:55.0	yes
26	(37) SERPENS1	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:56.0	yes
27	(38) SERPENS2	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:57.0	yes
28	(39) SERPENS3	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:58.0	yes
29	(40) SERPENS4	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:00:59.0	yes
30	(41) SERPENS5	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:01:00.0	yes
80	(41) SERPENS5	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:01:01.0	yes
31	(42) SERPENS6	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:01:02.0	yes
02	(36) CFHTWIR-OPH57-FOLLOWUP	WFC3/IR	2	04-Feb-2020 12:01:05.0	yes
03	(14) TAURUS7-FOLLOWUP	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:01:06.0	yes
04	(14) TAURUS7-FOLLOWUP	WFC3/IR WFC3/UVIS	1	04-Feb-2020 12:01:07.0	yes

42 Total Orbits Used

ABSTRACT

We propose for HST WFC3 follow-up imaging of a newly discovered population of brown dwarf / planetary mass members of Taurus and Serpens, with the goal of imaging the lowest mass object to date, potentially down to sub-Jupiter mass objects. The number of known L-type planetary mass objects in Taurus has increased by an order of magnitude in the last two years, from 1 known L to 16. L-type members of Taurus have estimated masses of 2-7 MJup at ages of 1-10 Myr, thus any companions to these objects will have even lower masses. Thus, this is the first chance to probe multiplicity properties for a purely planetary mass population. This project potentially offers the opportunity to study the atmospheres of sub-Jupiter mass objects similar to those that will be eventually imaged around young stars with future ELT instrumentation and missions such as LUVOIR. HST is critical for this project. HST WFC3 is the only instrument capable of high-resolution imaging in and out of the 1.45 μm water absorption feature which uniquely identifies substellar and planetary mass objects. Using a reddening insensitive index built from photometry in the F850LP, F127M, and F139M filters, we will be able to immediately distinguish bonafide companions from the reddened background stars that are the dominant source of contaminants.

OBSERVING DESCRIPTION

This program has two main goals: 1) identify new planetary mass candidate companion to recently discovered brown dwarfs in young star-forming regions and 2) confirm / refute candidate companions detected to two young brown dwarfs, via either common proper motion confirmation or color analysis.

Strategy by target type:

1) First epoch targets: these are new brown dwarf members of Taurus or Serpens we've identified as part of an ongoing ground-based survey. The survey combined observations in J and H band with observations in a custom filter centered on the 1.45 μm water absorption feature seen in objects with spectral types later than M6. Combining these filters, we defined a reddening insensitive index Q which acts as a proxy for spectral type (based on the depth of the water absorption feature). A similar reddening insensitive index can be set up using the F850LP, F127M, and F139M filters with WFC3 to use HST to search for clearly substellar or planetary mass companions to our new Taurus and Serpens brown dwarf objects. This requires that we obtain deep enough observations in each of these 3 filters within 1 orbit per target. To balance image quality / psf sampling and depth, we use 3-point line dithers with sub-arrays (to allow fast enough readout for multiple short exposures) in all three filters.

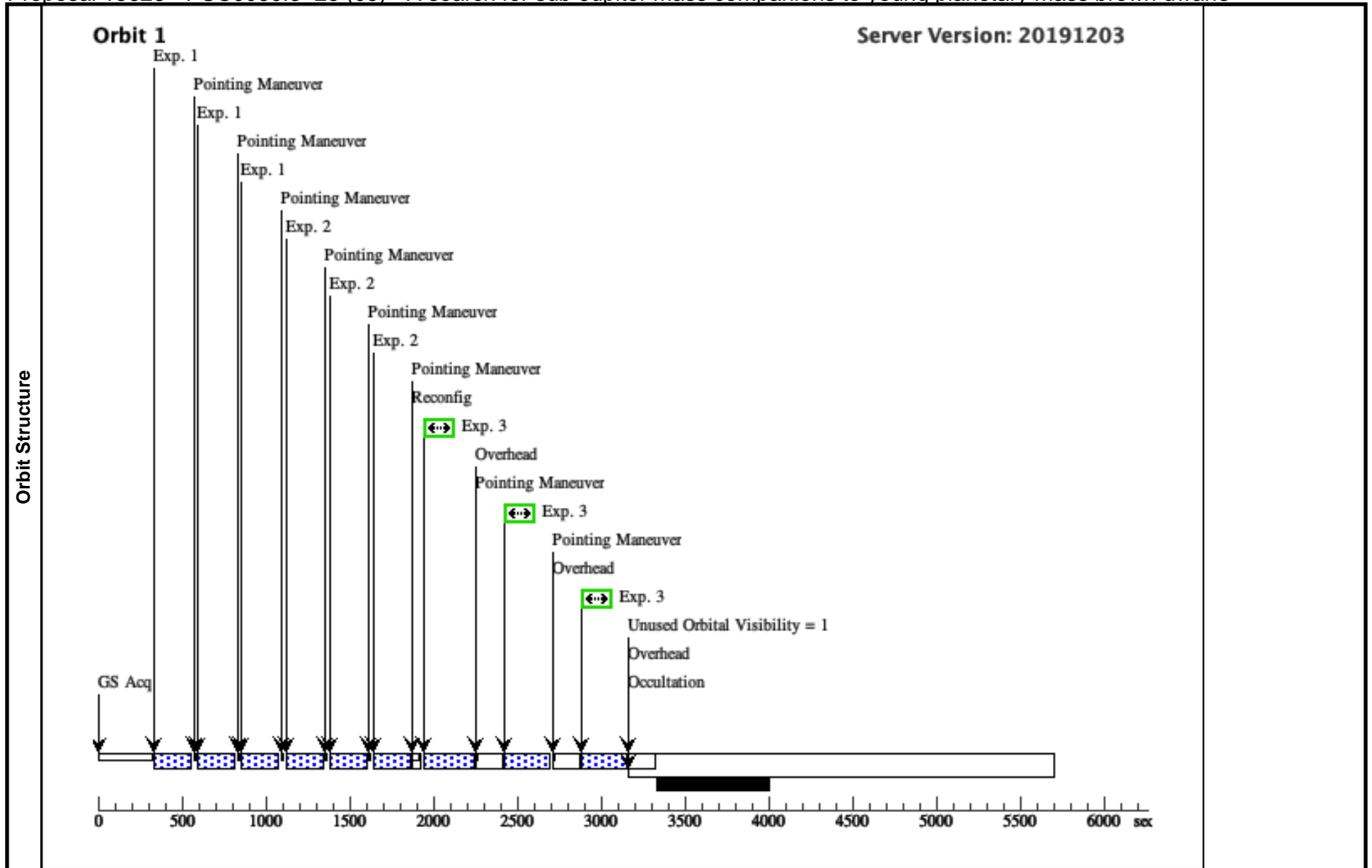
2) followup target Oph 57: this is a candidate companion with clear water absorption identified as part of GO 12944 -- in fact, it dropped out entirely in the F139M filter in the first epoch observation. Followup observations in program GO 14686 were ambiguous, but an additional astrometric point in 2019/2020 should unambiguously confirm or refute this candidate. We devote 2 orbits to this object: the first for a deep, full-frame 4-point dither in F850LP, the second for high S/N detections in F125W and F160W (full-frame, 4-point dither). F125W and F160W are the closest correlates to 2MASS J and H on HST. These colors will provide valuable characterization information for this candidate companion. Since we have J and H photometry for the primary already, if we can measure the contrast of the candidate companion, we can compare J-H colors for the primary vs. the candidate. If the candidate is bluer than the primary, then it's background, but if it has similar or redder colors that would be a good indication that it is a likely bound companion.

3) followup target Taurus 7: this has a close-in ($<1''$), faint candidate companion detected using adaptive optics on the Keck telescope. The first epoch observation was in November 2017; given the small proper motion of Taurus, common proper motion confirmation is not yet possible for this object (that will probably require a 3-4 year baseline). The goal of the HST epoch, in contrast, is detection in F125M and F139M in order to detect water absorption and roughly determine the spectral type of this object. We also include an F850LP observation, but given the faintness of the primary and the Δmag of the companion, if the companion is detected in F850LP it is almost certainly a background star (we predict an F850LP magnitude of ~ 25 if it is a bound companion). Thus, photometry is more important than astrometry here. We devote two orbits for this object as well, split into two visits, with the second visit in a different ORIENT range than the first, to enable higher contrasts via roll angle subtraction, as done for a similar (but brighter) brown dwarf - exoplanet binary 2M1207 in Song et al. 2006. We will acquire two dither positions per filter per visit, for four dithers total. POSTARG values for dither positions are taken from the WFC3-IR-DITHER-BOX-MIN pattern.

Proposal 15628 - PSOJ060.3+25 (05) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

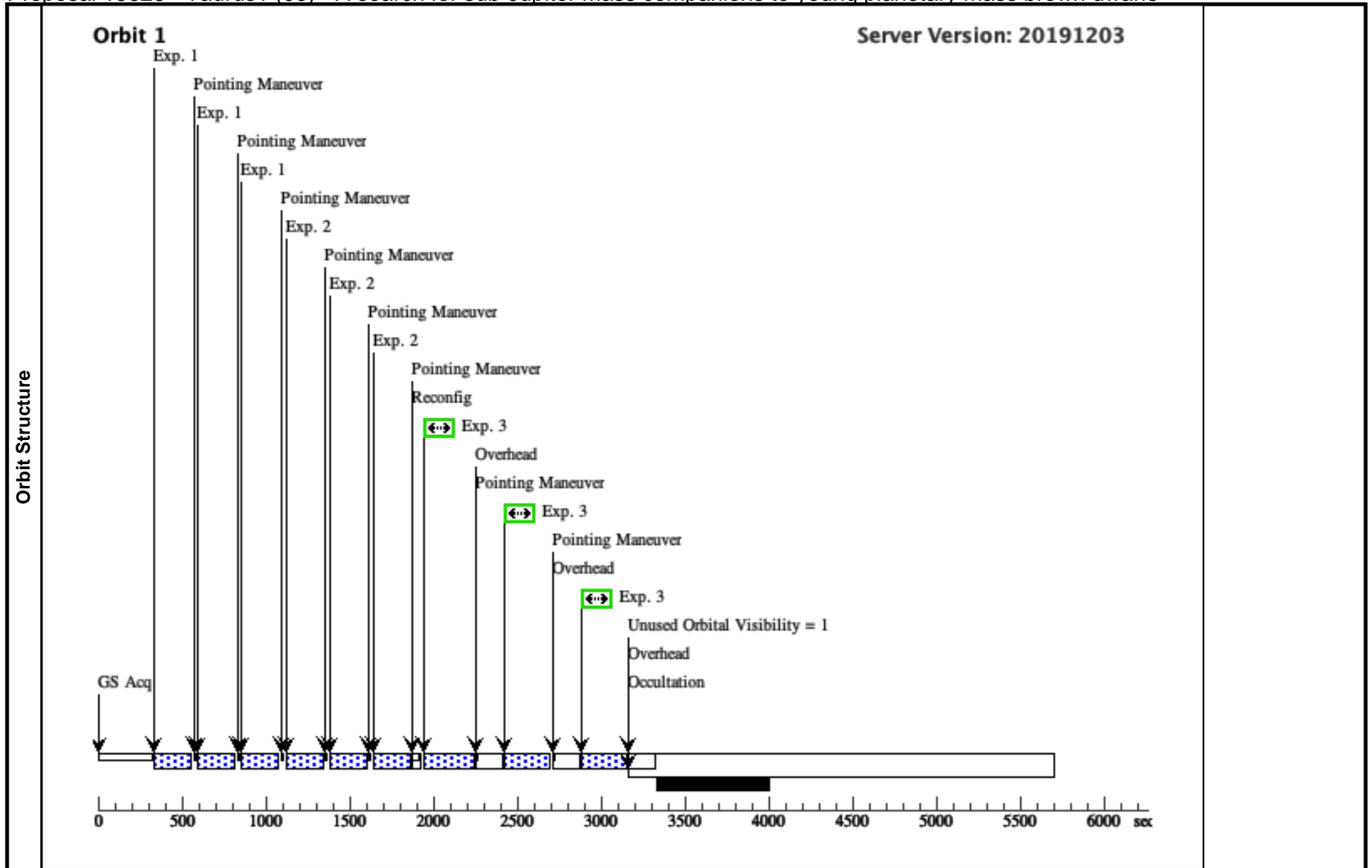
Tue Feb 04 17:01:08 GMT 2020

Visit	Proposal 15628, PSOJ060.3+25 (05), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
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Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	PSOJ060.3+25	RA: 04 01 16.7800 (60.3199167d) Dec: +25 57 52.70 (25.96464d) Equinox: J2000		V=(?) J=16.81+0.17, L0 (Best et al. 2017)	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) PSOJ060.3+25	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n PSOJ060.3+25 (05)) (4)	197.203399 Secs (591.61 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(9) PSOJ060.3+25	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n PSOJ060.3+25 (05)) (4)	197.203399 Secs (591.61 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3		(9) PSOJ060.3+25	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n PSOJ060.3+25 (05)) (3)	275 Secs (810 Secs) [==>270.0 Secs (Pattern 1)] [==>270.0 Secs (Pattern 2)] [==>270.0 Secs (Pattern 3)]	[1]



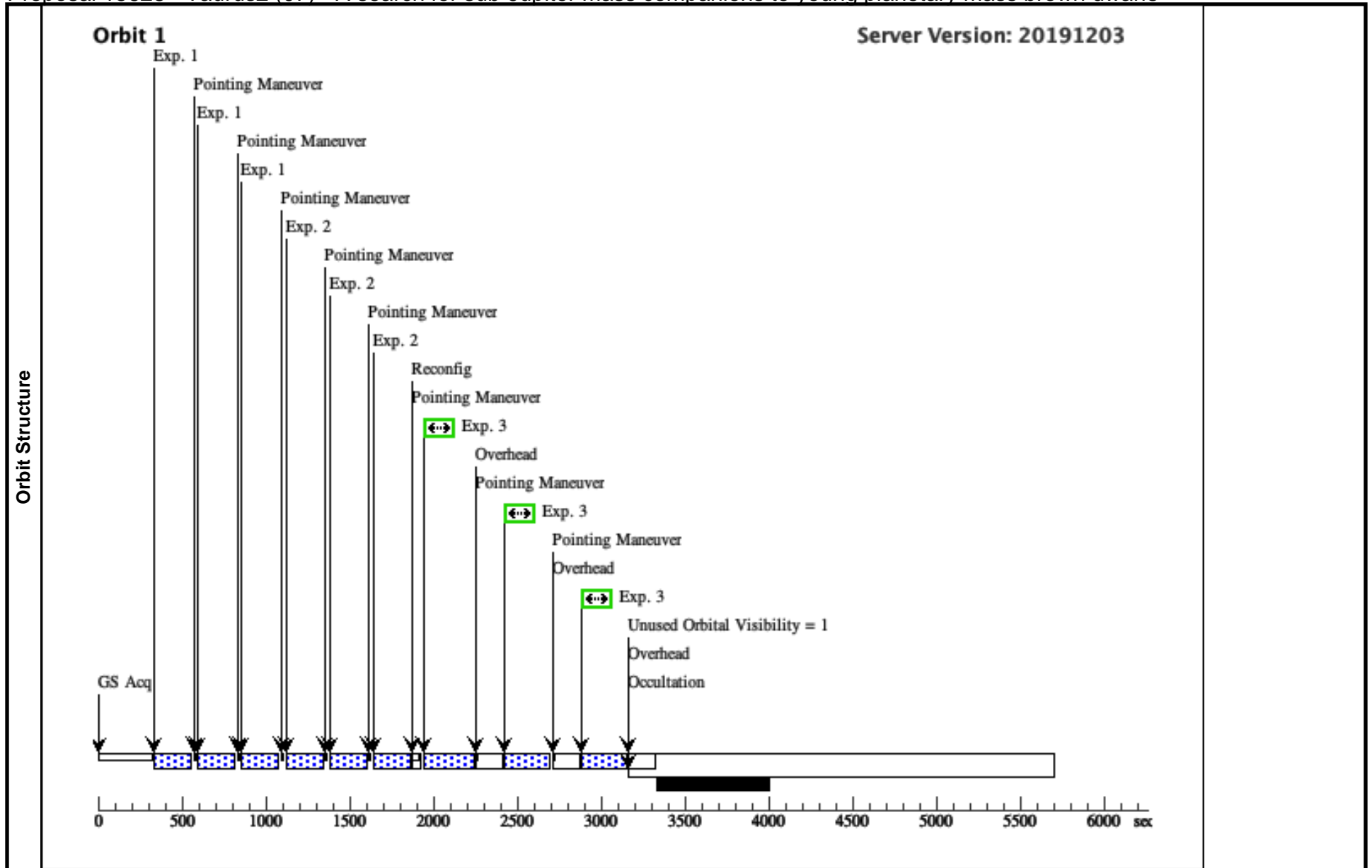
Proposal 15628 - Taurus1 (06) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Visit		Proposal 15628, Taurus1 (06), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					Tue Feb 04 17:01:08 GMT 2020			
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
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(4)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(1), (2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	TAURUS1	RA: 04 24 38.4960 (66.1604000d) Dec: +26 41 18.60 (26.68850d) Equinox: J2000		V=(?) J=17.5+-0.2, M9	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF] Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) TAURUS1	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 in Taurus1 (06) (4)	197.203399 Secs (591.61 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(2) TAURUS1	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 in Taurus1 (06) (4)	197.203399 Secs (591.61 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3		(2) TAURUS1	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 in Taurus1 (06) (3)	275 Secs (810 Secs) [==>270.0 Secs (Pattern 1)] [==>270.0 Secs (Pattern 2)] [==>270.0 Secs (Pattern 3)]	[1]



Proposal 15628 - Taurus2 (07) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

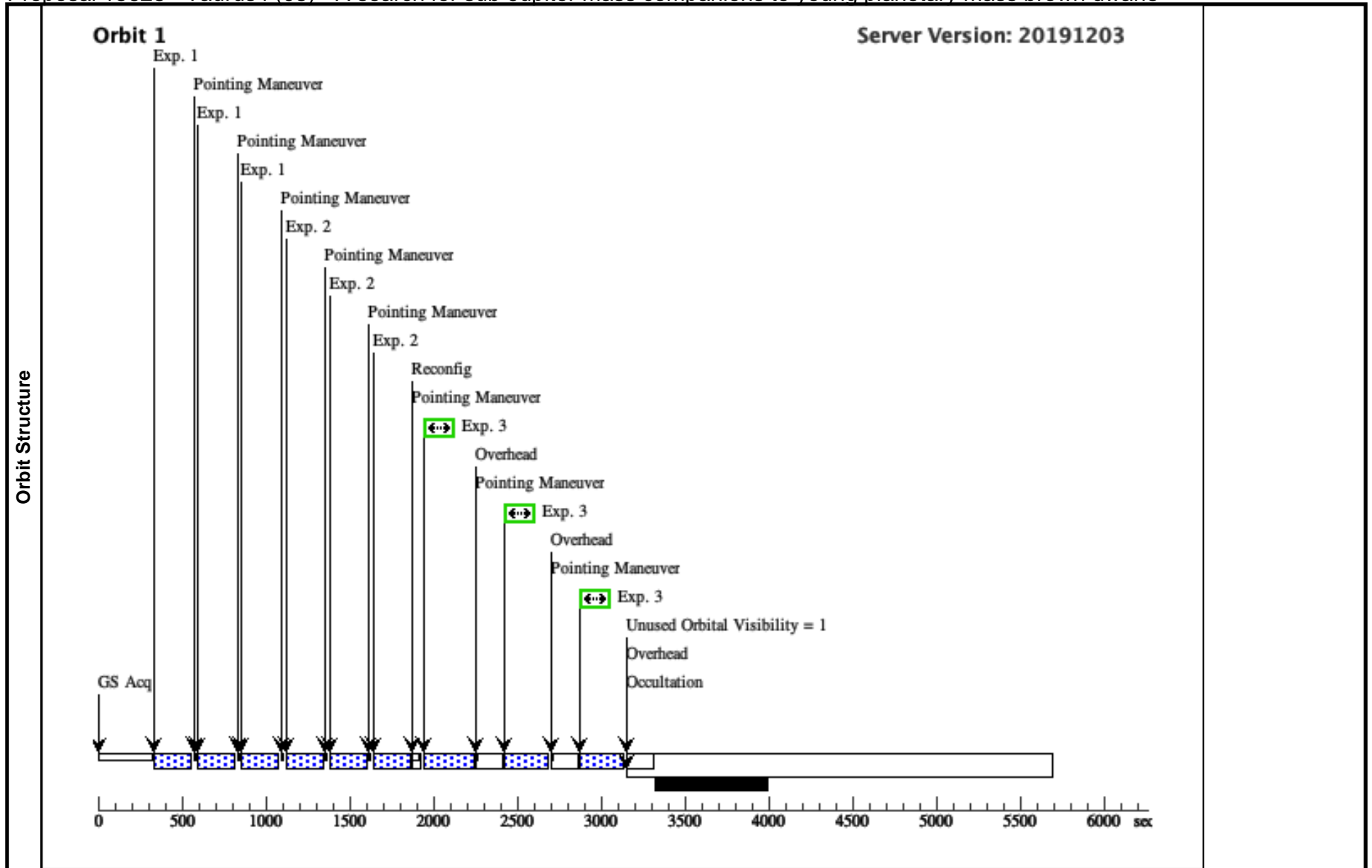
Visit		Proposal 15628, Taurus2 (07), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					Tue Feb 04 17:01:08 GMT 2020			
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(3)				
(4)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(1), (2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	TAURUS2	RA: 04 22 1.3680 (65.5057000d) Dec: +26 55 12.36 (26.92010d) Equinox: J2000		V=(?) J=17.9+-0.2, M9	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF] Extended=NO										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) TAURUS2	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13	GS ACQ SCENARI O BASE1B3	Pattern 4, Exps 1-1 in Taurus2 (07) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(3) TAURUS2	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 in Taurus2 (07) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3		(3) TAURUS2	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 in Taurus2 (07) (3)	275 Secs (810 Secs) [=>270.0 Secs (Pattern 1)] [=>270.0 Secs (Pattern 2)] [=>270.0 Secs (Pattern 3)]	[1]



Proposal 15628 - Taurus4 (08) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:08 GMT 2020

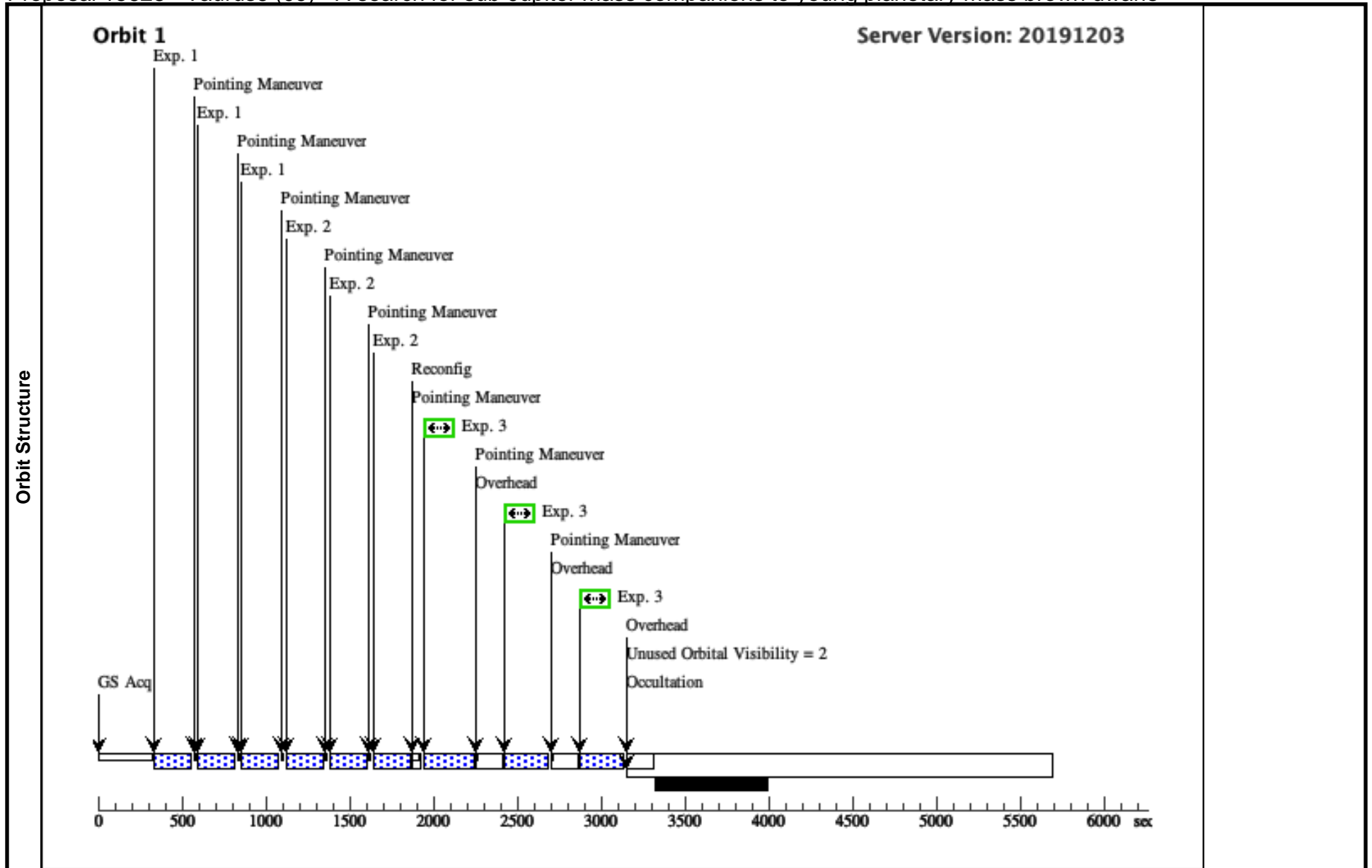
Visit	Proposal 15628, Taurus4 (08), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	TAURUS4	RA: 04 22 2.0880 (65.5087000d) Dec: +19 47 49.56 (19.79710d) Equinox: J2000		V=(?) J=16.5+-0.1, M9	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) TAURUS4	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Taurus4 (08) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(5) TAURUS4	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus4 (08) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(5) TAURUS4	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10			Pattern 3, Exps 3-3 i n Taurus4 (08) (3)	275 Secs (801 Secs)	
								[==>267.0 Secs (Pattern 1)] [==>267.0 Secs (Pattern 2)] [==>267.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - Taurus6 (09) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:08 GMT 2020

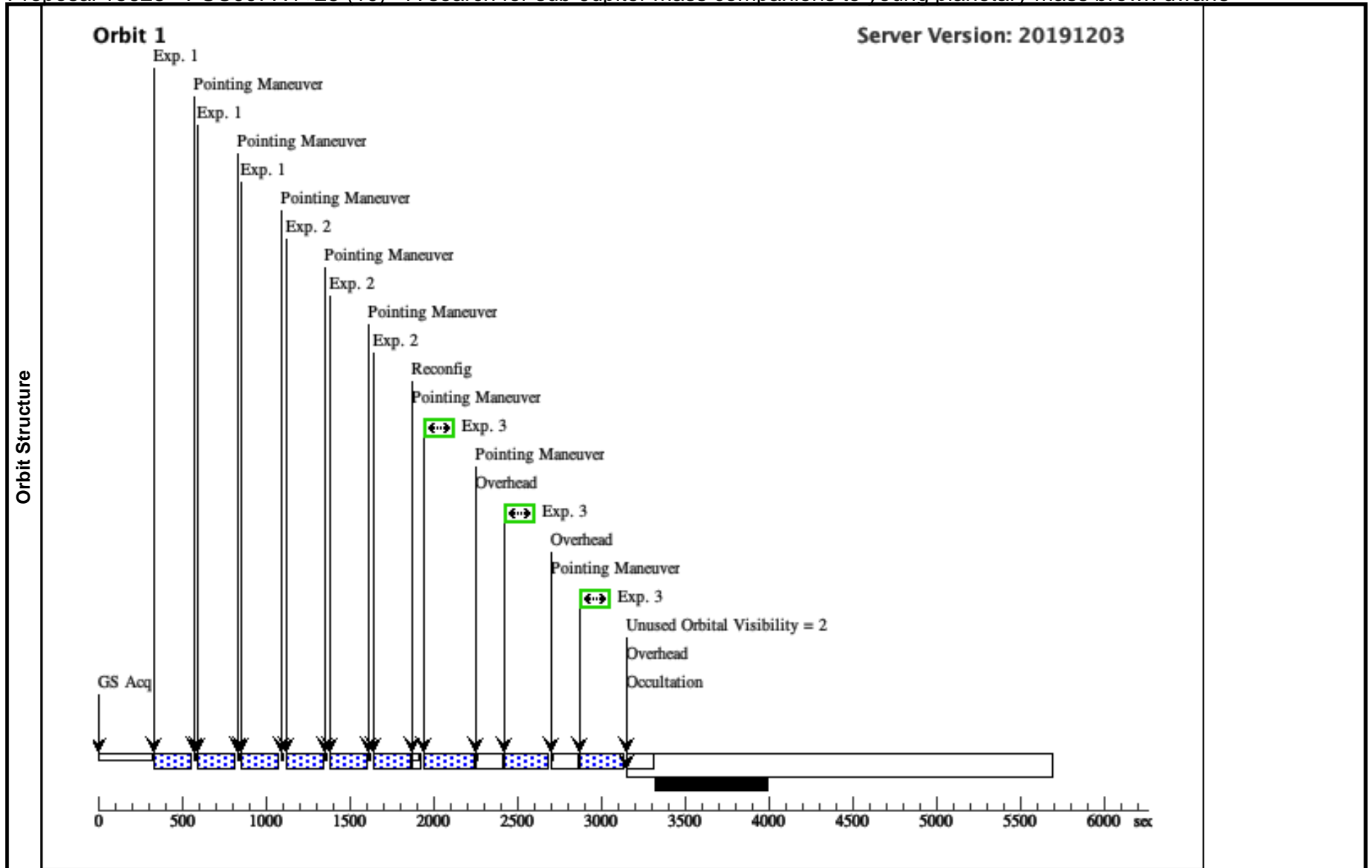
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	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	TAURUS6	RA: 04 35 55.4640 (68.9811000d) Dec: +22 53 13.56 (22.88710d) Equinox: J2000		V=(?) J=17.4+-0.2, L0	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) TAURUS6	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Taurus6 (09) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(7) TAURUS6	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus6 (09) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(7) TAURUS6	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n Taurus6 (09) (3)	275 Secs (801 Secs)		
								[==>267.0 Secs (Pattern 1)] [==>267.0 Secs (Pattern 2)] [==>267.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - PSOJ077.1+25 (10) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:08 GMT 2020

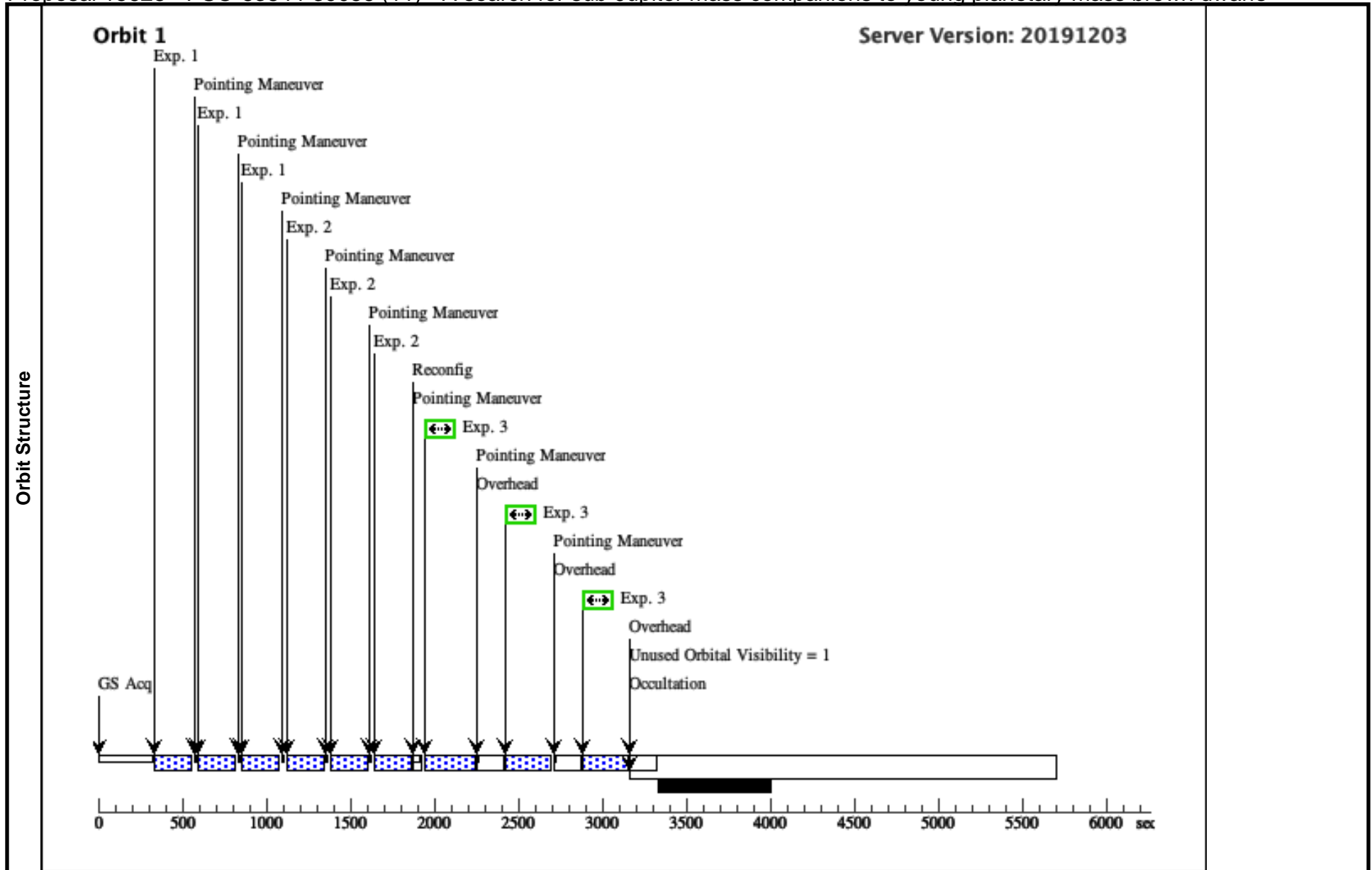
Visit	Proposal 15628, PSOJ077.1+25 (10), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	PSOJ077.1+25	RA: 05 08 24.8000 (77.1033333d) Dec: +24 22 51.80 (24.38106d) Equinox: J2000		V=(?) J=16.93+0.14, L0 (Best et al. 2017)	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(10) PSOJ077.1+25	(10) PSOJ077.1+25	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n PSOJ077.1+25 (10) (4)	197.203399 Secs (591.61 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2	(10) PSOJ077.1+25	(10) PSOJ077.1+25	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n PSOJ077.1+25 (10) (4)	197.203399 Secs (591.61 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	(10) PSOJ077.1+25	(10) PSOJ077.1+25	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n PSOJ077.1+25 (10) (3)	275 Secs (801 Secs) [==>267.0 Secs (Pattern 1)] [==>267.0 Secs (Pattern 2)] [==>267.0 Secs (Pattern 3)]	[1]



Proposal 15628 - PSO-83844-39056 (11) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:08 GMT 2020

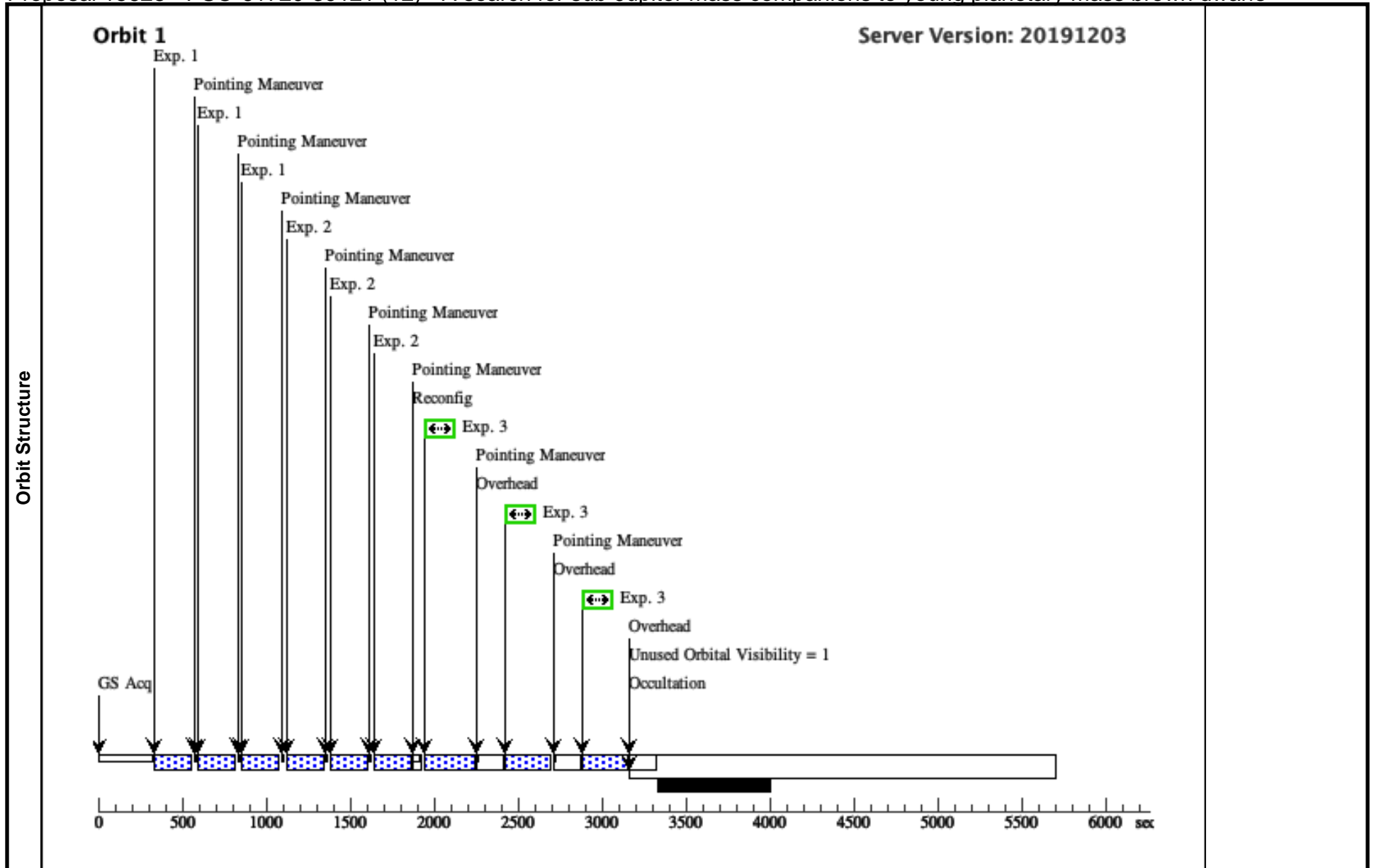
Visit	Proposal 15628, PSO-83844-39056 (11), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	PSO-83844-39056	RA: 04 18 45.3000 (64.6887500d) Dec: +27 58 47.86 (27.97996d) Equinox: J2000		V=(?) J=16.69+0.12, L0.7 (Zhang et al. 2018)	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(12) PSO-83844-39056	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n PSO-83844-39056 (11) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(12) PSO-83844-39056	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n PSO-83844-39056 (11) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3		(12) PSO-83844-39056	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n PSO-83844-39056 (11) (3)	275 Secs (810 Secs) [=>270.0 Secs (Pattern 1)] [=>270.0 Secs (Pattern 2)] [=>270.0 Secs (Pattern 3)]	[1]



Proposal 15628 - PSO-61720-39121 (12) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:08 GMT 2020

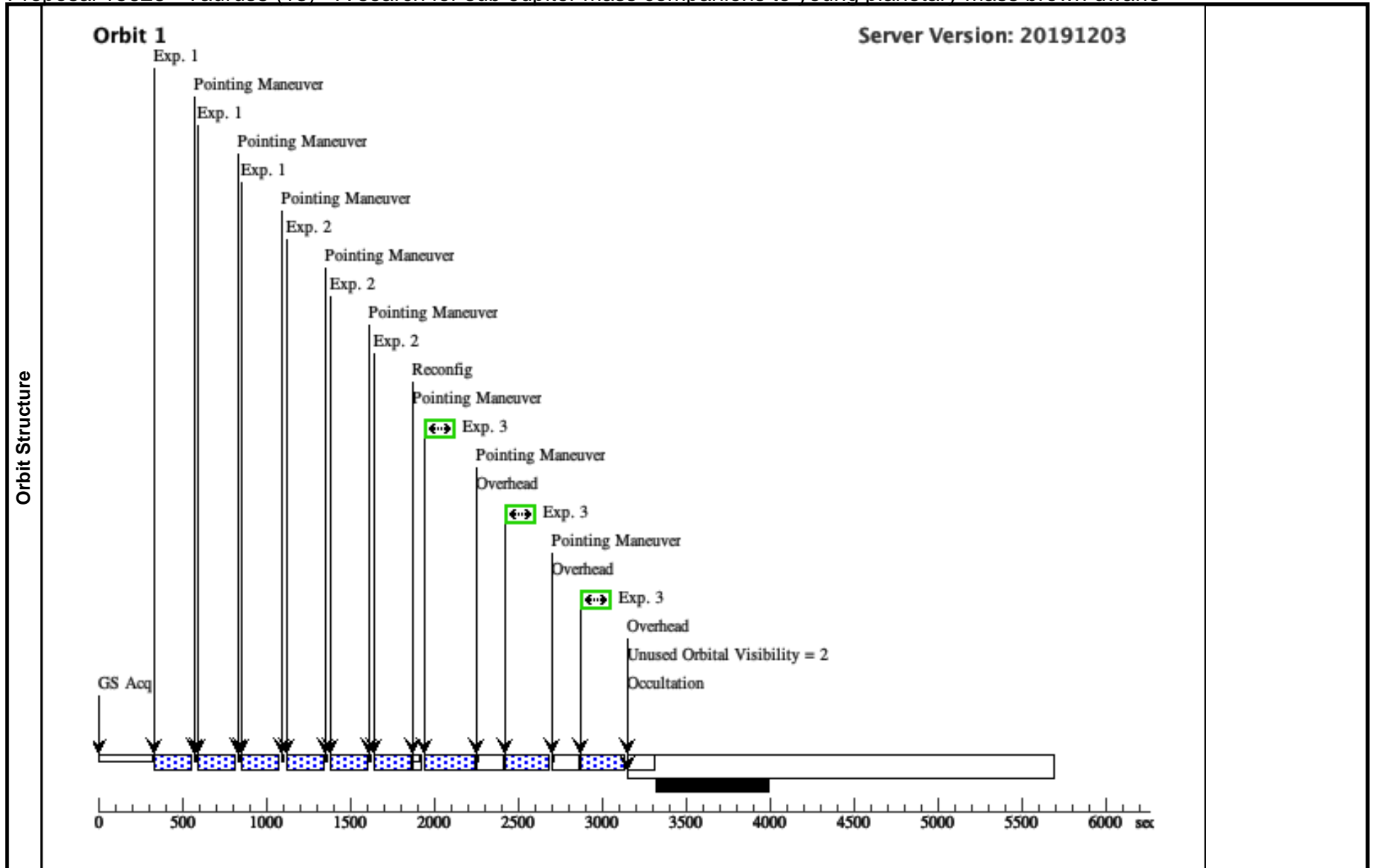
Visit	Proposal 15628, PSO-61720-39121 (12), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(13)	PSO-61720-39121	RA: 04 20 43.0230 (65.1792625d) Dec: +28 10 36.16 (28.17671d) Equinox: J2000		V=(?) J=16.77+-0.12, M9.25 (Esplin & Luhman 2017)	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(13) PSO-61720-39121	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP25; NSAMP=13		Pattern 4, Exps 1-1 in PSO-61720-39121 (12) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(13) PSO-61720-39121	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP25; NSAMP=13		Pattern 4, Exps 2-2 in PSO-61720-39121 (12) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3		(13) PSO-61720-39121	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 in PSO-61720-39121 (12) (3)	275 Secs (810 Secs) [=>270.0 Secs (Pattern 1)] [=>270.0 Secs (Pattern 2)] [=>270.0 Secs (Pattern 3)]	[1]



Proposal 15628 - Taurus8 (13) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

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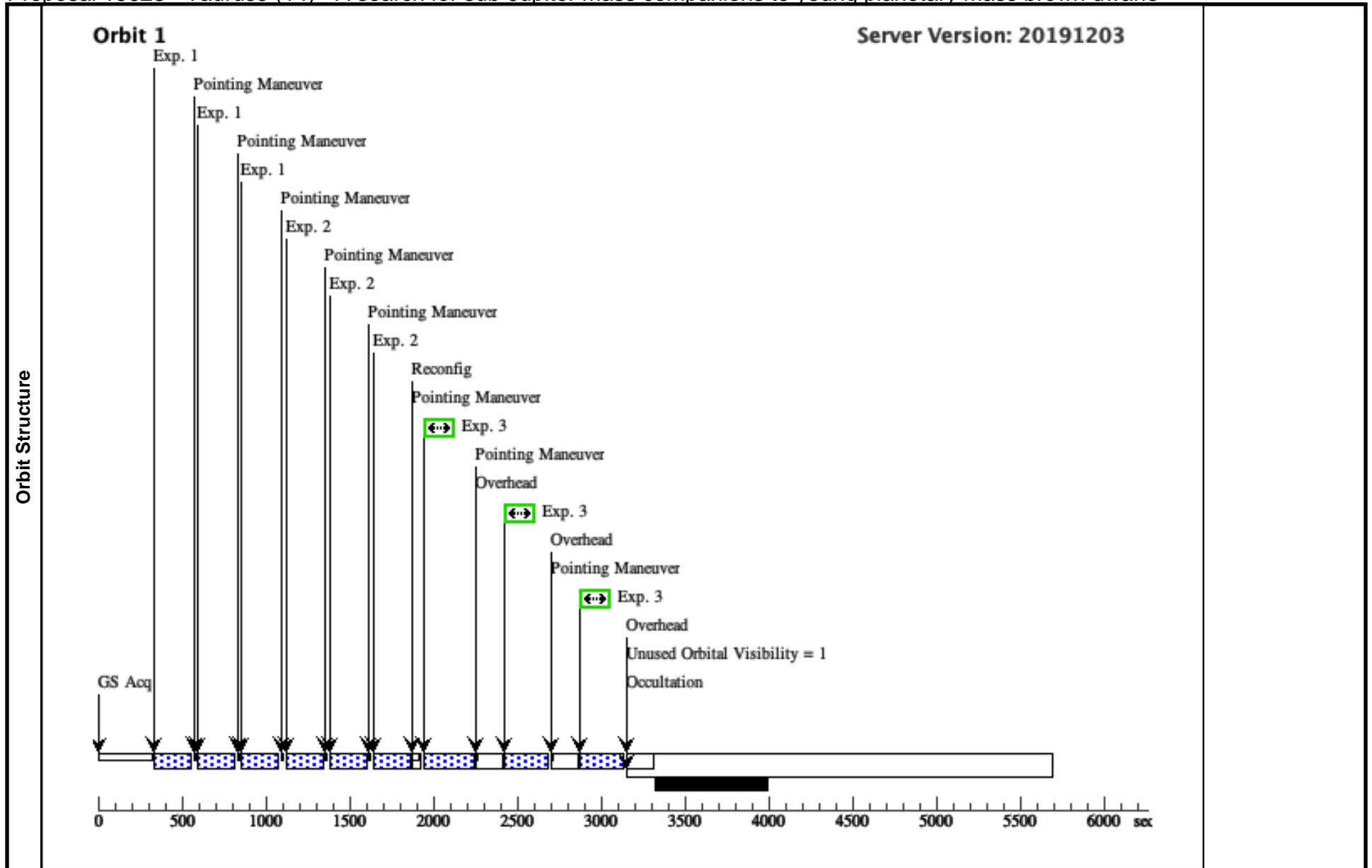
Visit	Proposal 15628, Taurus8 (13), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	TAURUS8	RA: 04 31 49.6000 (67.9566667d) Dec: +23 22 52.00 (23.38111d) Equinox: J2000		V=(?) J=17.0, Late M / Early L	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(15) TAURUS8	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Taurus8 (13) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(15) TAURUS8	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus8 (13) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(15) TAURUS8	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n Taurus8 (13) (3)	275 Secs (801 Secs)		
								[==>267.0 Secs (Pattern 1)] [==>267.0 Secs (Pattern 2)] [==>267.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - Taurus9 (14) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

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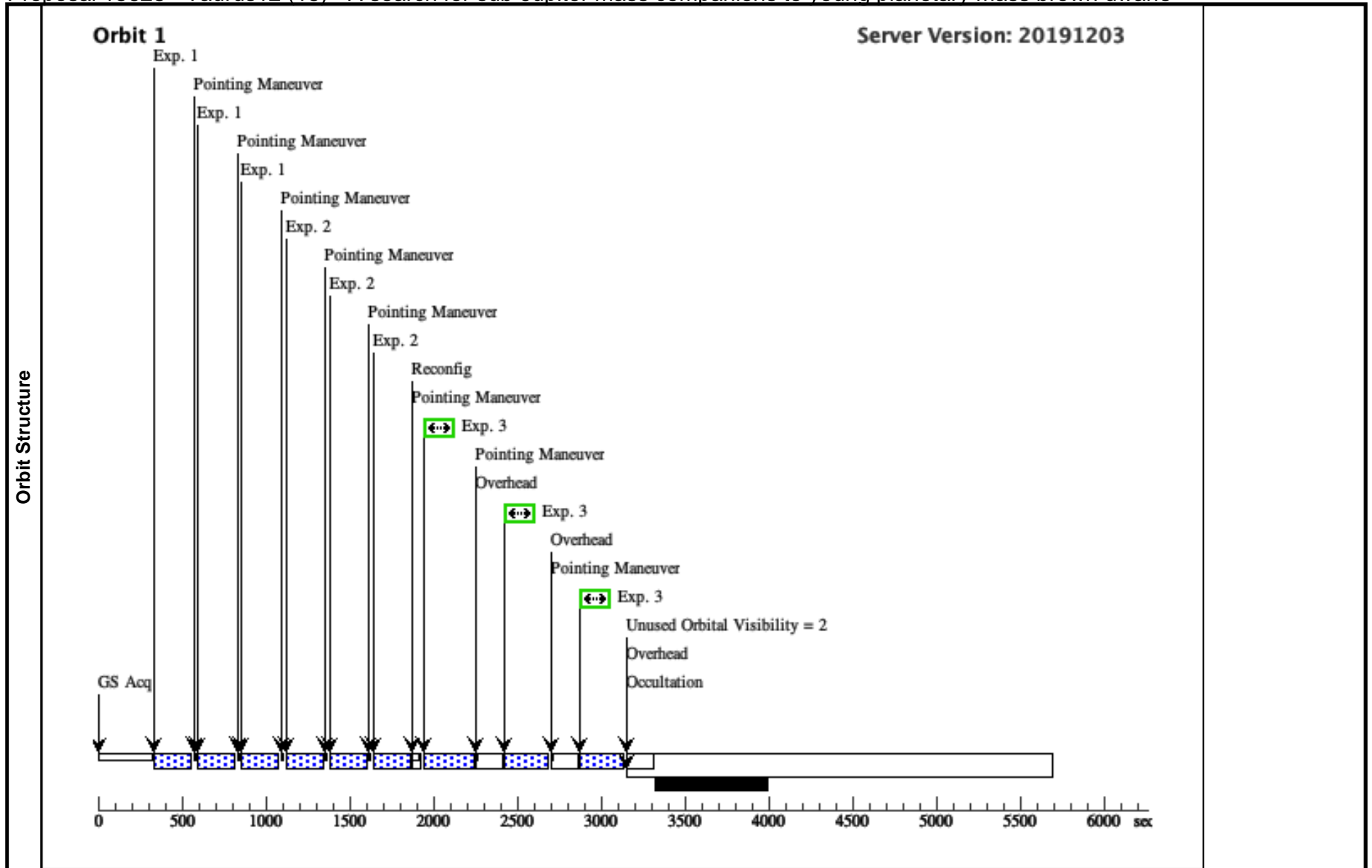
Visit	Proposal 15628, Taurus9 (14), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(17)	TAURUS9	RA: 04 33 28.0000 (68.3666667d) Dec: +17 58 32.00 (17.97556d) Equinox: J2000		V=(?) J=17.6, L4	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(17) TAURUS9	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Taurus9 (14) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(17) TAURUS9	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus9 (14) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(17) TAURUS9	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n Taurus9 (14) (3)	275 Secs (801 Secs)		
								[==>267.0 Secs (Pattern 1)] [==>267.0 Secs (Pattern 2)] [==>267.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - Taurus12 (15) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

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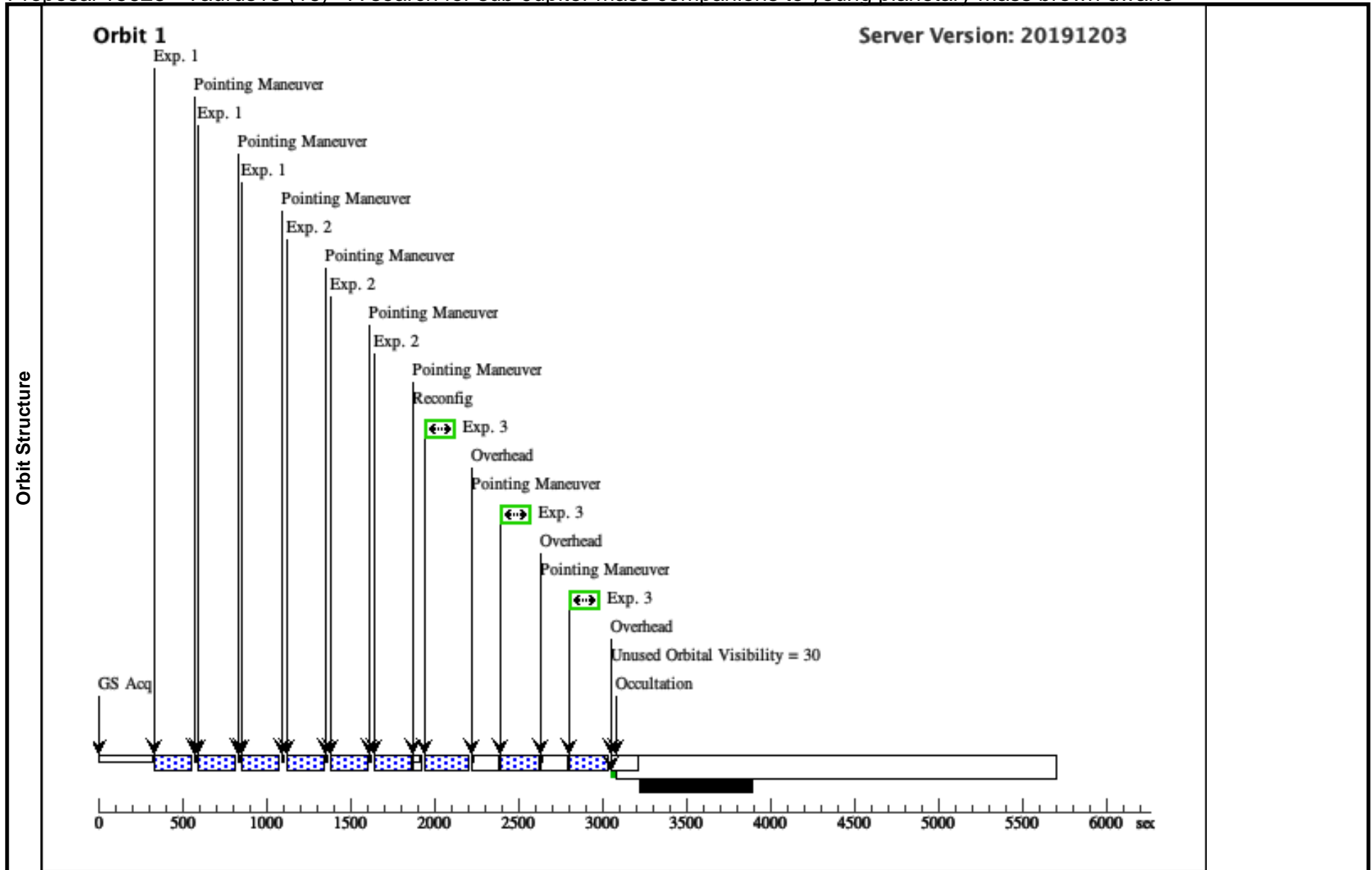
Visit	Proposal 15628, Taurus12 (15), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(19)	TAURUS12	RA: 04 07 29.1200 (61.8713333d) Dec: +23 06 38.10 (23.11058d) Equinox: J2000		V=(?) J=16.5, M9.9 (Zhang et al. 2018)	Reference Frame: ICRS				
<i>Comments:</i> <i>Category=STAR</i> <i>Description=[BROWN DWARF]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(19) TAURUS12	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Taurus12 (15) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(19) TAURUS12	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus12 (15) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(19) TAURUS12	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10			Pattern 3, Exps 3-3 i n Taurus12 (15) (3)	275 Secs (801 Secs)	
								[==>267.0 Secs (Pattern 1)] [==>267.0 Secs (Pattern 2)] [==>267.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - Taurus13 (16) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

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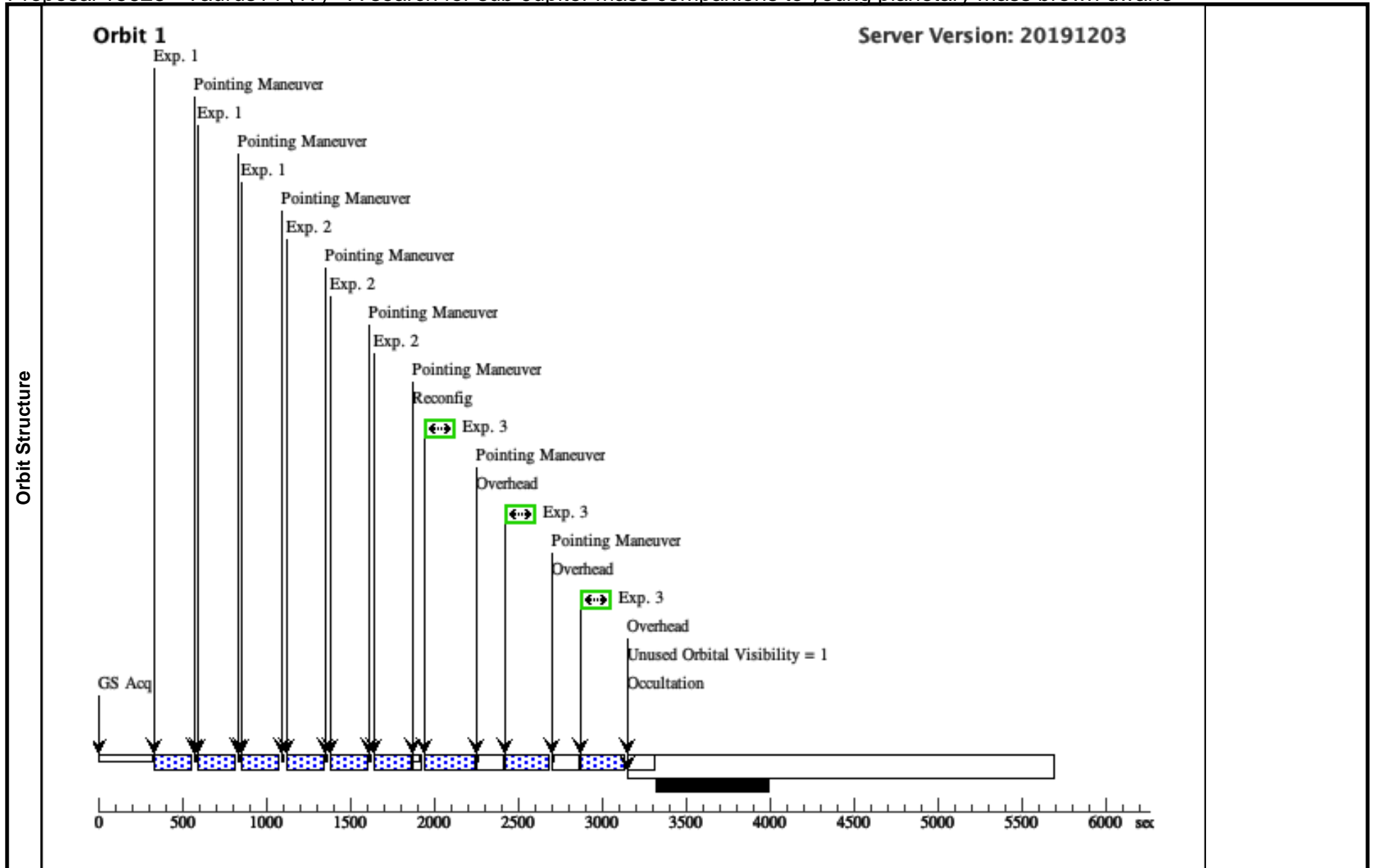
Visit	Proposal 15628, Taurus13 (16), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 50%										
	#	Primary Pattern				Secondary Pattern			Exposures		
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(3)		
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(1), (2)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(20)	TAURUS13	RA: 04 09 51.5400 (62.4647500d) Dec: +20 00 42.80 (20.01189d) Equinox: J2000				V=(?) J=15.6, M9.1 (Zhang et al. 2018)		Reference Frame: ICRS		
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(20) TAURUS13	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13	GS ACQ SCENARI O BASE1B3	Pattern 4, Exps 1-1 i n Taurus13 (16) (4)	197.203399 Secs (591.61 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
									[==>(Pattern 3)]		
2		(20) TAURUS13	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus13 (16) (4)	197.203399 Secs (591.61 Secs)			
								[==>(Pattern 1)]		[1]	
								[==>(Pattern 2)]			
								[==>(Pattern 3)]			
3		(20) TAURUS13	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n Taurus13 (16) (3)	233 Secs (699 Secs)			
								[==>(Pattern 1)]		[1]	
								[==>(Pattern 2)]			
								[==>(Pattern 3)]			



Proposal 15628 - Taurus14 (17) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

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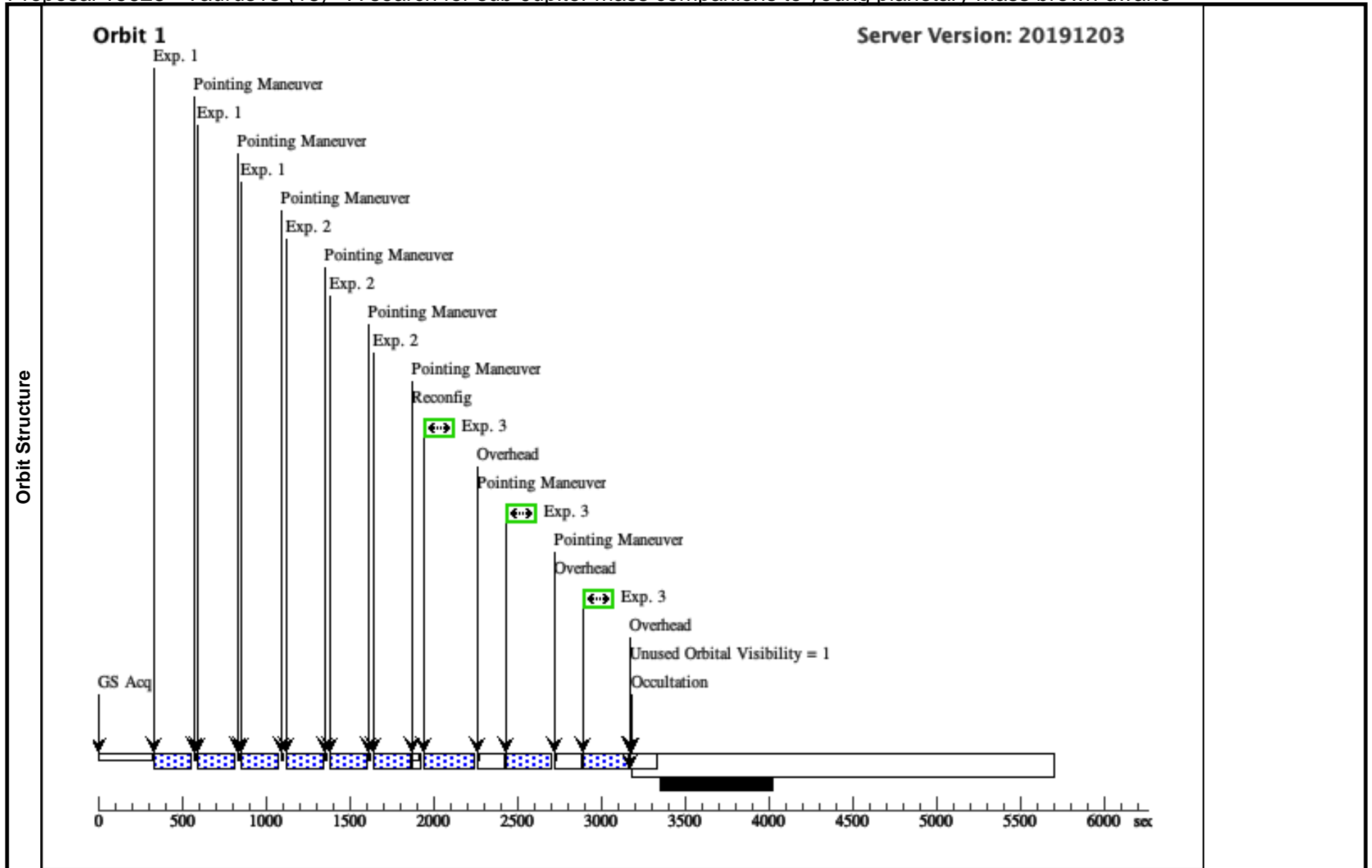
Visit	Proposal 15628, Taurus14 (17), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(21)	TAURUS14	RA: 05 02 19.8200 (75.5825833d) Dec: +16 56 59.40 (16.94983d) Equinox: J2000		V=(?) J=16.1, M9.5 (Zhang et al. 2018)	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(21) TAURUS14	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Taurus14 (17) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(21) TAURUS14	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus14 (17) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(21) TAURUS14	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10			Pattern 3, Exps 3-3 i n Taurus14 (17) (3)	275 Secs (801 Secs)	
								[==>267.0 Secs (Pattern 1)] [==>267.0 Secs (Pattern 2)] [==>267.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - Taurus15 (18) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

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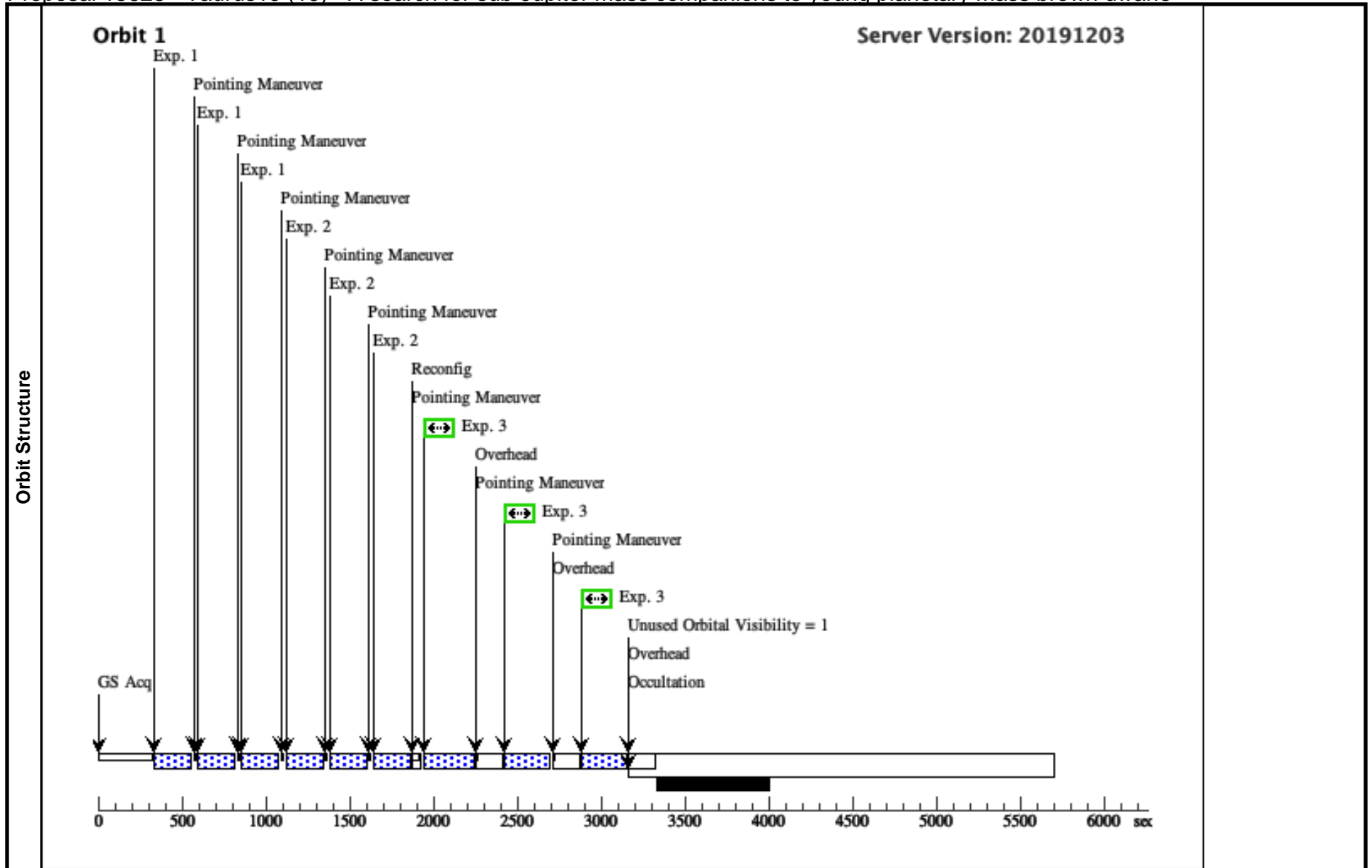
Visit	Proposal 15628, Taurus15 (18), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(22)	TAURUS15	RA: 03 58 17.1100 (59.5712917d) Dec: +30 37 58.60 (30.63294d) Equinox: J2000		V=(?) J=16.0, M9.7 (Zhang et al. 2018)	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(22) TAURUS15	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Taurus15 (18) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(22) TAURUS15	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus15 (18) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3		(22) TAURUS15	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n Taurus15 (18) (3)	272 Secs (825 Secs) [=>275.0 Secs (Pattern 1)] [=>275.0 Secs (Pattern 2)] [=>275.0 Secs (Pattern 3)]	[1]



Proposal 15628 - Taurus19 (19) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:09 GMT 2020

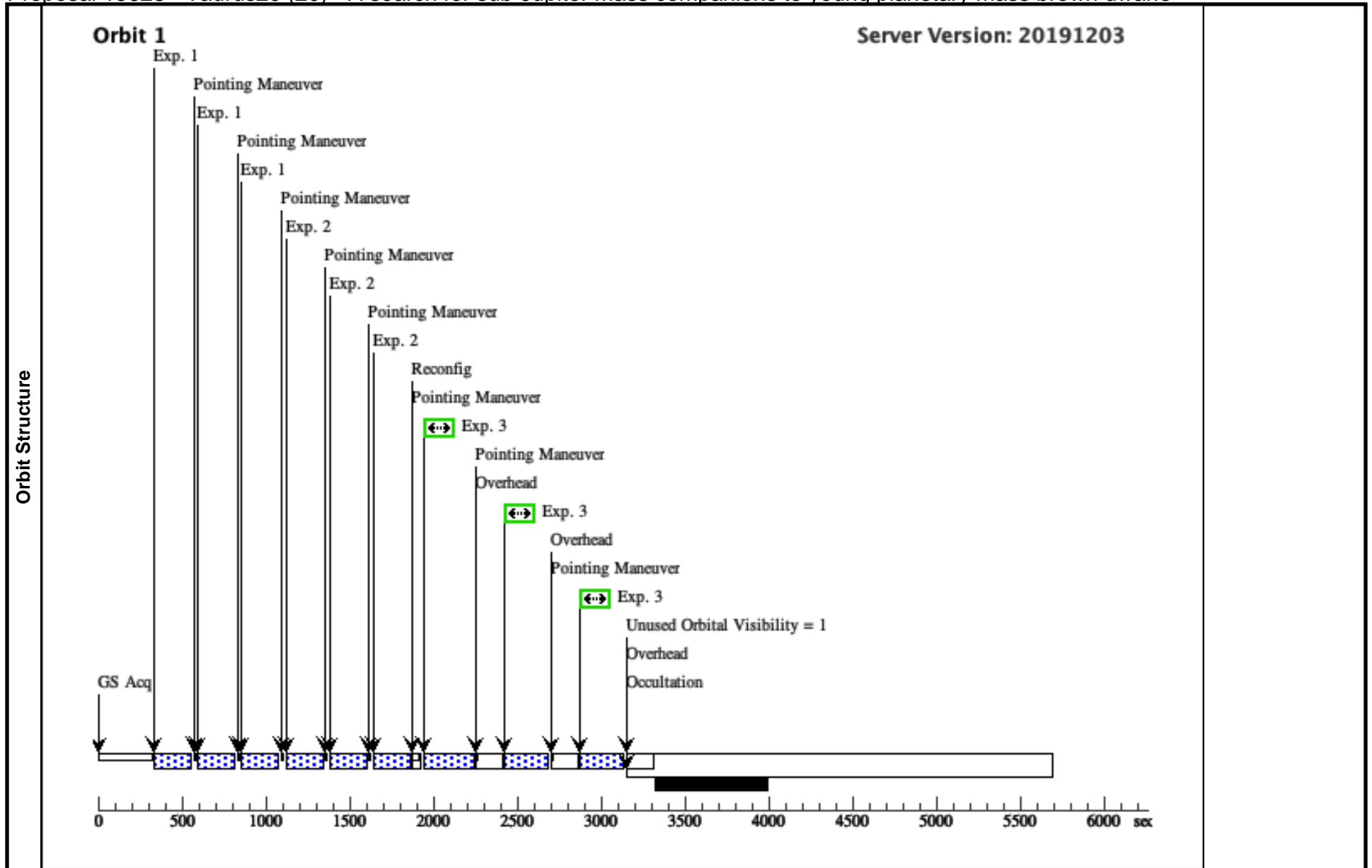
Visit	Proposal 15628, Taurus19 (19), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(26)	TAURUS19	RA: 04 27 49.5100 (66.9562917d) Dec: +27 38 15.50 (27.63764d) Equinox: J2000		V=(?) Ks=14.5, M9.5 (Esplin & Luhman 2017)	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(26) TAURUS19	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Taurus19 (19) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(26) TAURUS19	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus19 (19) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(26) TAURUS19	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n Taurus19 (19) (3)	275 Secs (810 Secs)		
								[==>270.0 Secs (Pattern 1)] [==>270.0 Secs (Pattern 2)] [==>270.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - Taurus20 (20) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:09 GMT 2020

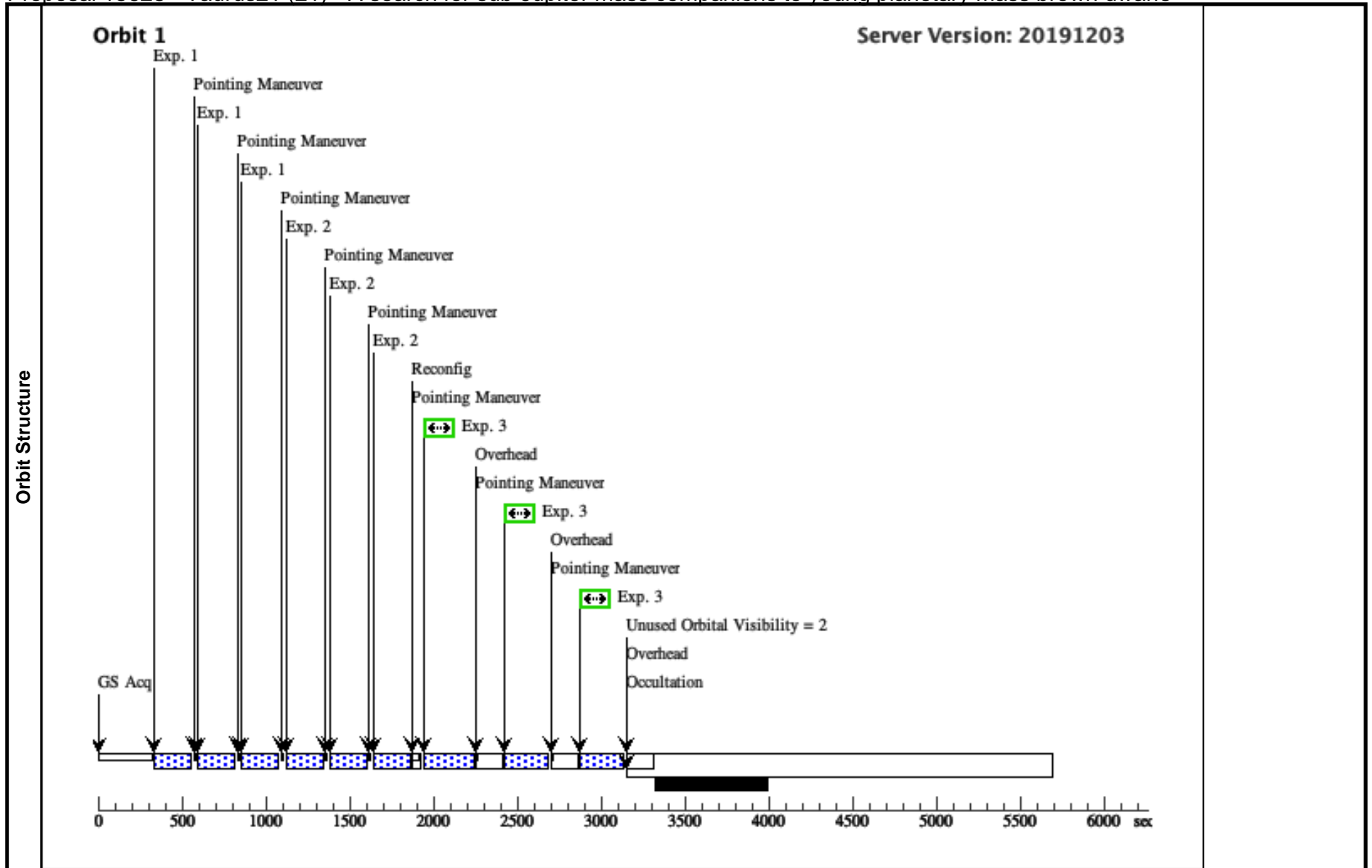
Visit	Proposal 15628, Taurus20 (20), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(27)	TAURUS20	RA: 04 32 1.5700 (68.0065417d) Dec: +18 15 23.00 (18.25639d) Equinox: J2000		V=(?) Ks=15.1, M9.5 (Esplin & Luhman 2017)	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(27) TAURUS20	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Taurus20 (20) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(27) TAURUS20	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus20 (20) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3		(27) TAURUS20	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n Taurus20 (20) (3)	275 Secs (801 Secs) [=>267.0 Secs (Pattern 1)] [=>267.0 Secs (Pattern 2)] [=>267.0 Secs (Pattern 3)]	[1]



Proposal 15628 - Taurus21 (21) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:09 GMT 2020

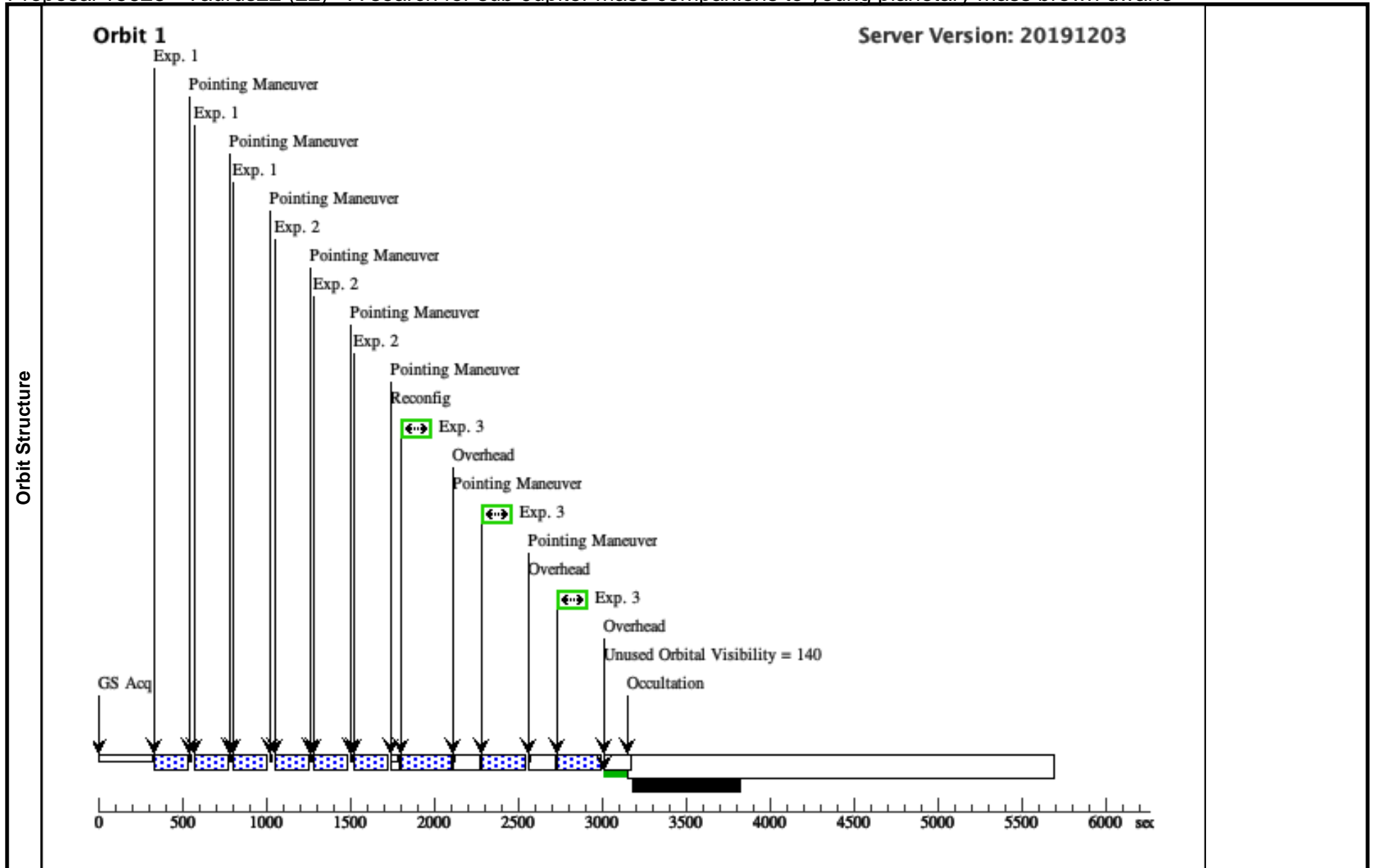
Visit	Proposal 15628, Taurus21 (21), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(28)	TAURUS21	RA: 04 33 54.0700 (68.4752917d) Dec: +22 51 19.10 (22.85531d) Equinox: J2000		V=(?) Ks=15.9, M9-L2 (Esplin & Luhman 2017)	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(28) TAURUS21	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 in Taurus21 (21) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(28) TAURUS21	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 in Taurus21 (21) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(28) TAURUS21	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10			Pattern 3, Exps 3-3 in Taurus21 (21) (3)	275 Secs (801 Secs)	
								[==>267.0 Secs (Pattern 1)] [==>267.0 Secs (Pattern 2)] [==>267.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - Taurus22 (22) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:09 GMT 2020

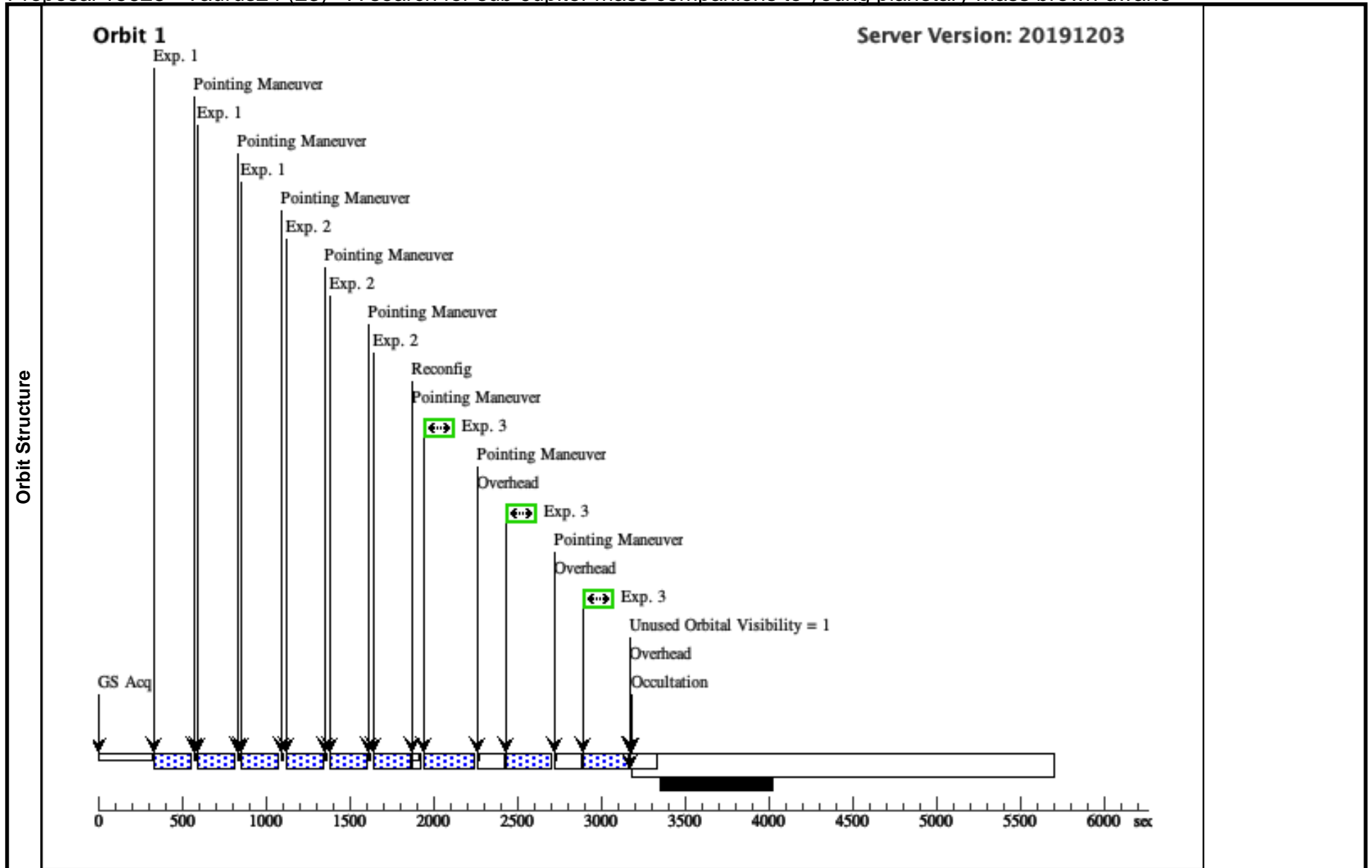
Visit	Proposal 15628, Taurus22 (22), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(29)	TAURUS22	RA: 04 36 6.7800 (69.0282500d) Dec: +24 25 50.00 (24.43056d) Equinox: J2000		V=(?) Ks=15.2, M9.5 (Esplin & Luhman 2017)	Reference Frame: ICRS				
Comments: Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(29) TAURUS22	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=12	GS ACQ SCENARI O BASE1B3	Pattern 4, Exps 1-1 i n Taurus22 (22) (4)	174.282148 Secs (522.846 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(29) TAURUS22	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=12		Pattern 4, Exps 2-2 i n Taurus22 (22) (4)	174.282148 Secs (522.846 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(29) TAURUS22	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n Taurus22 (22) (3)	275 Secs (801 Secs)		
								[==>267.0 Secs (Pattern 1)] [==>267.0 Secs (Pattern 2)] [==>267.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - Taurus24 (23) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:09 GMT 2020

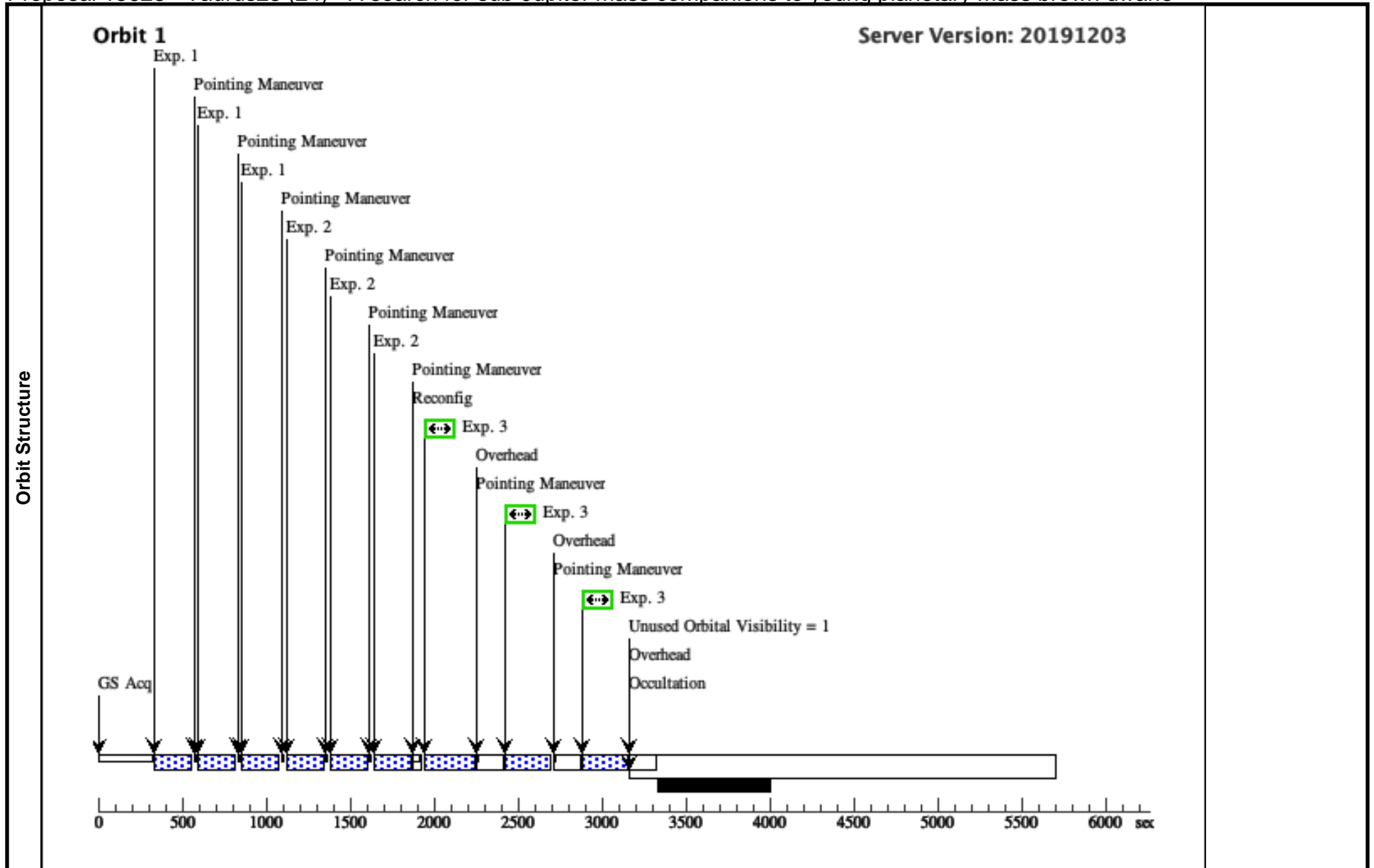
Visit	Proposal 15628, Taurus24 (23), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(31)	TAURUS24	RA: 04 52 10.3500 (73.0431250d) Dec: +30 37 34.30 (30.62619d) Equinox: J2000		V=(?) Ks=15.4, M9.5 (Esplin & Luhman 2017)	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(31) TAURUS24	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Taurus24 (23) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(31) TAURUS24	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus24 (23) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(31) TAURUS24	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10			Pattern 3, Exps 3-3 i n Taurus24 (23) (3)	272 Secs (825 Secs)	
								[==>275.0 Secs (Pattern 1)] [==>275.0 Secs (Pattern 2)] [==>275.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - Taurus25 (24) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

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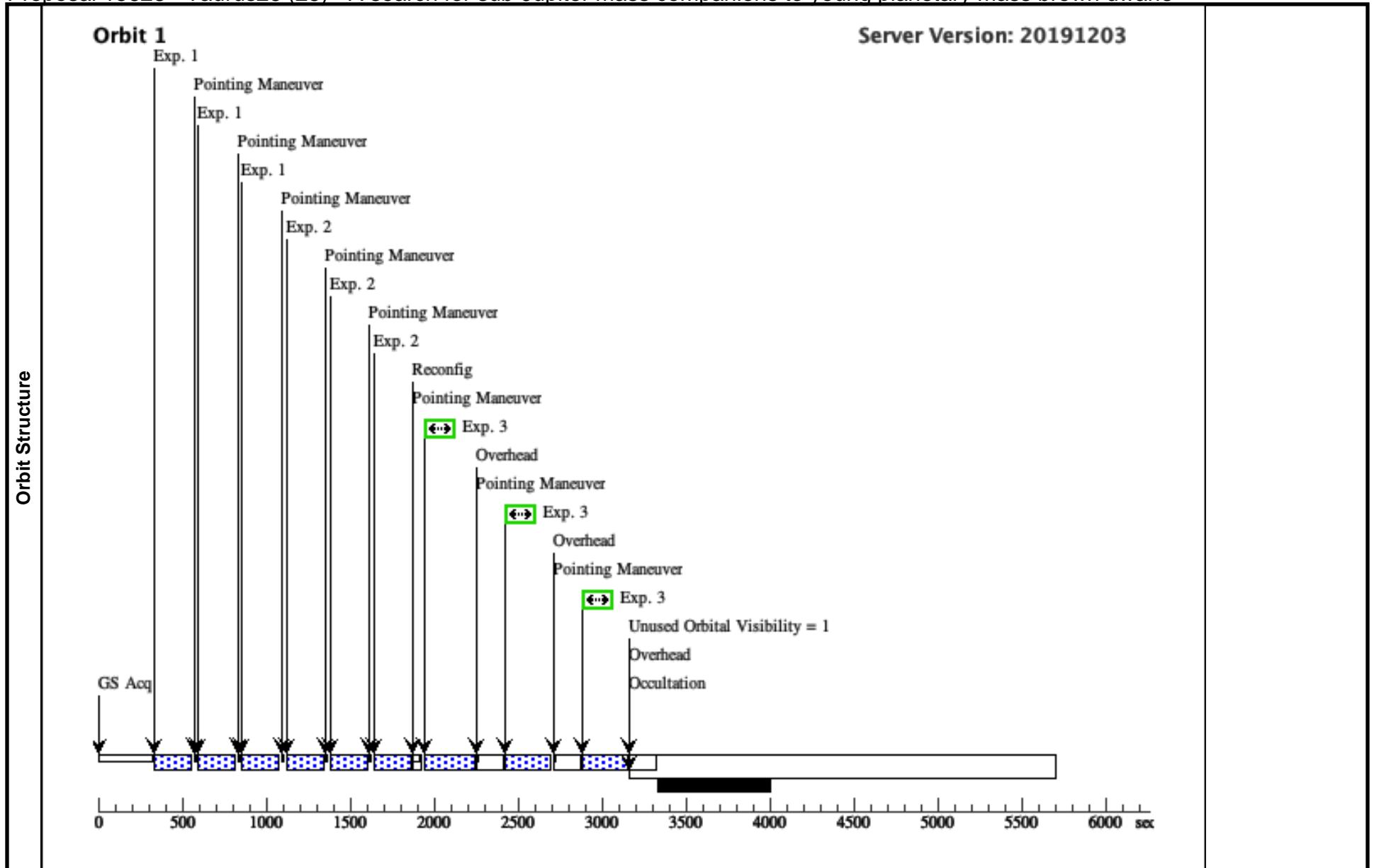
Visit	Proposal 15628, Taurus25 (24), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(32)	TAURUS25	RA: 04 21 6.4095 (65.2767062d) Dec: +27 06 54.00 (27.11500d) Equinox: J2000		V=(?) J=17.1, late M / early L	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(32) TAURUS25	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Taurus25 (24) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(32) TAURUS25	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus25 (24) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3		(32) TAURUS25	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n Taurus25 (24) (3)	275 Secs (810 Secs) [=>270.0 Secs (Pattern 1)] [=>270.0 Secs (Pattern 2)] [=>270.0 Secs (Pattern 3)]	[1]



Proposal 15628 - Taurus26 (25) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:09 GMT 2020

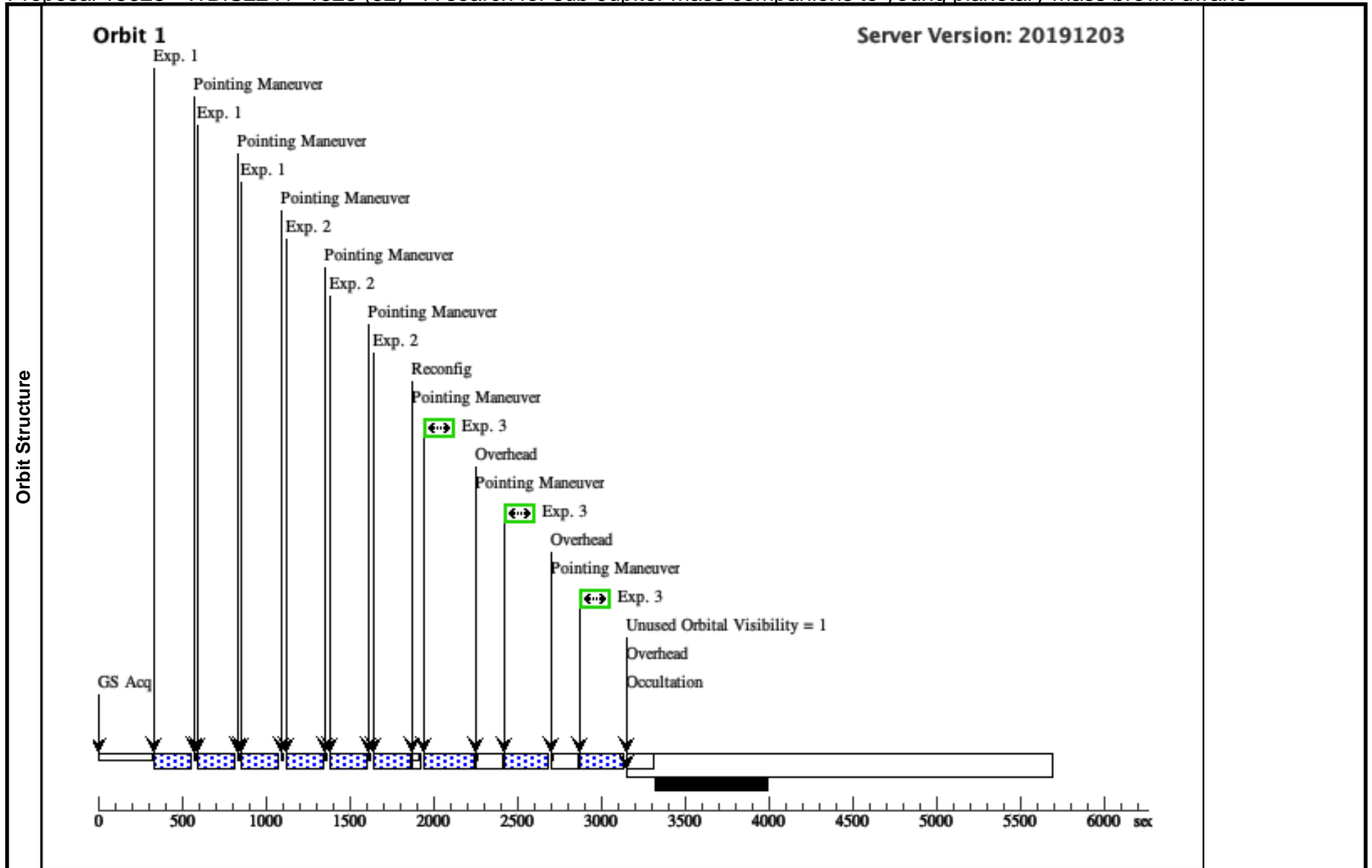
Visit	Proposal 15628, Taurus26 (25), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(33)	TAURUS26	RA: 04 21 39.0000 (65.4125000d) Dec: +27 54 14.00 (27.90389d) Equinox: J2000		V=(?) J=16.6, late-M	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(33) TAURUS26	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Taurus26 (25) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(33) TAURUS26	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus26 (25) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(33) TAURUS26	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10			Pattern 3, Exps 3-3 i n Taurus26 (25) (3)	275 Secs (810 Secs)	
								[==>270.0 Secs (Pattern 1)] [==>270.0 Secs (Pattern 2)] [==>270.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - WBIS2241+1523 (32) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:09 GMT 2020

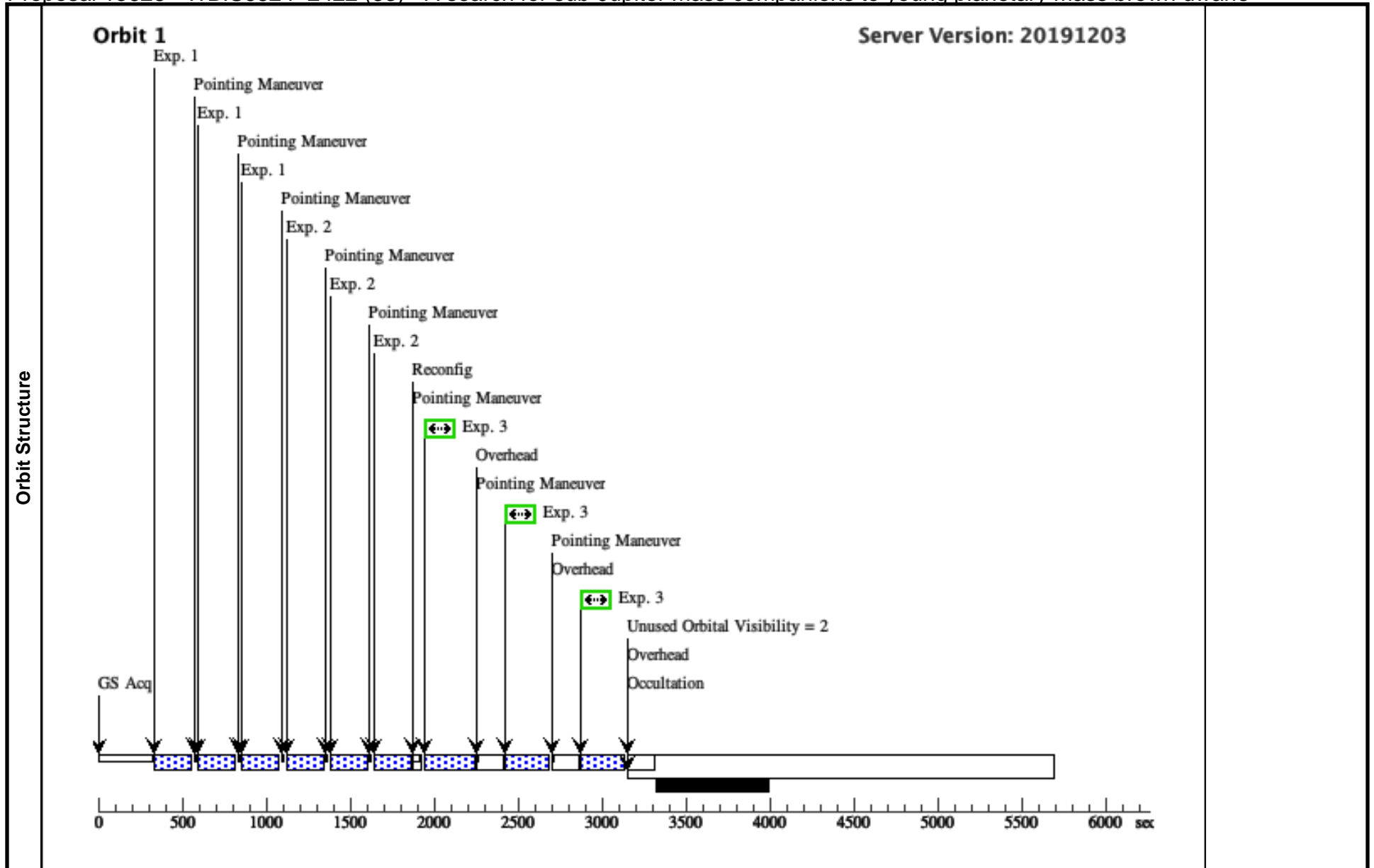
Visit	Proposal 15628, WBIS2241+1523 (32), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(43)	WBIS2241+1523	RA: 04 22 41.7600 (65.6740000d) Dec: +15 23 53.52 (15.39820d) Equinox: J2000		V=(?) K=15.24+-0.03 (UKIDSS)	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(43) WBIS2241+1523	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP25; NSAMP=13		Pattern 4, Exps 1-1 in WBIS2241+1523 (32) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(43) WBIS2241+1523	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP25; NSAMP=13		Pattern 4, Exps 2-2 in WBIS2241+1523 (32) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3		(43) WBIS2241+1523	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 in WBIS2241+1523 (32) (3)	275 Secs (801 Secs) [=>267.0 Secs (Pattern 1)] [=>267.0 Secs (Pattern 2)] [=>267.0 Secs (Pattern 3)]	[1]



Proposal 15628 - WBIS6824+2422 (33) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:09 GMT 2020

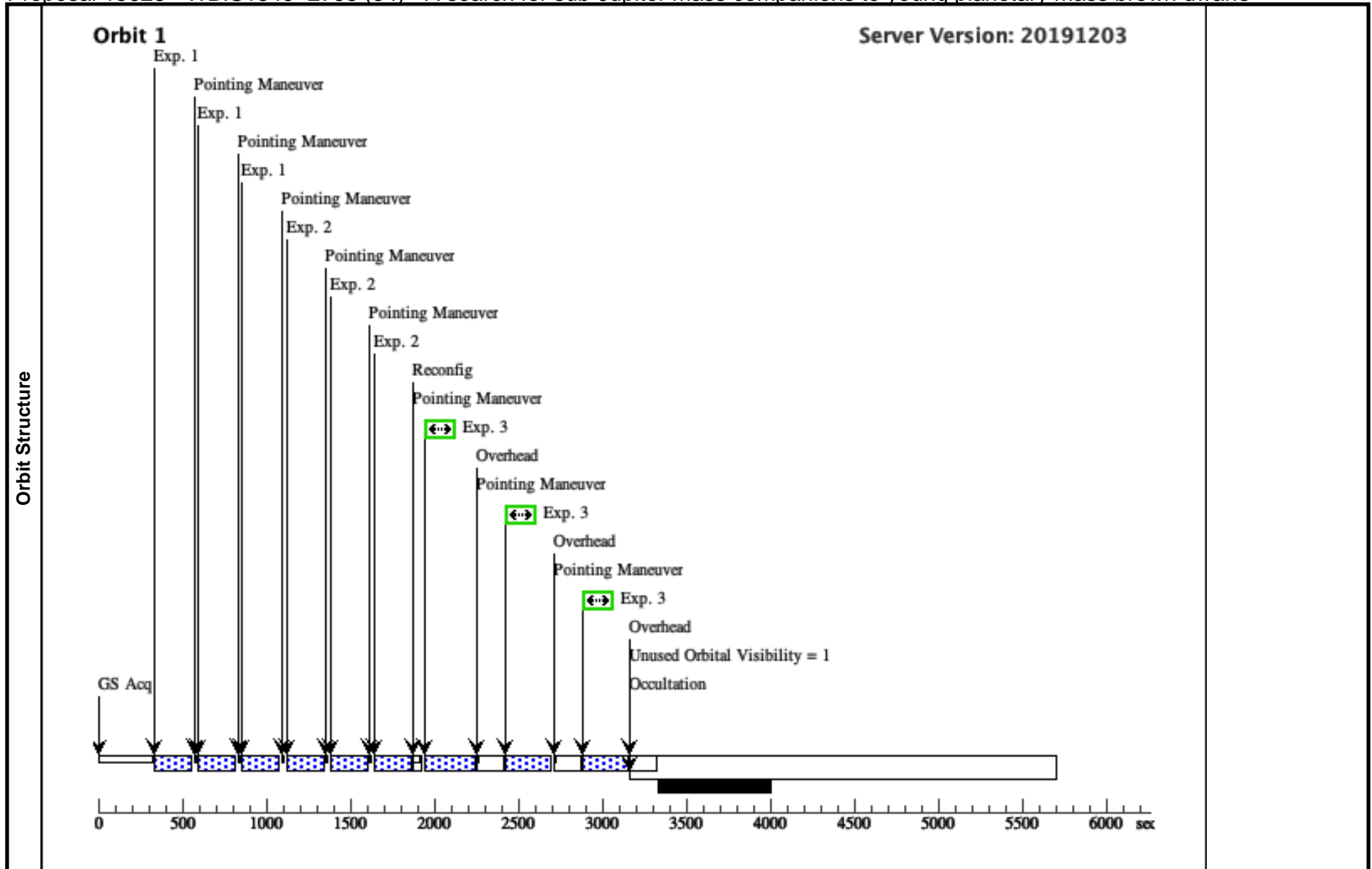
Visit	Proposal 15628, WBIS6824+2422 (33), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(44)	WBIS6824+2422	RA: 05 08 24.8000 (77.1033333d) Dec: +24 22 51.00 (24.38083d) Equinox: J2000		V=(?) J = 17.06+-0.03, K=15.58+-0.02 (UKIDSS)	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(44) WBIS6824+2422	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5;		Pattern 4, Exps 1-1 in WBIS6824+2422 (33) (4)	197.203399 Secs (591.61 Secs)	
		2					NSAMP=13		[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(44) WBIS6824+2422	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5;		Pattern 4, Exps 2-2 in WBIS6824+2422 (33) (4)	197.203399 Secs (591.61 Secs)	
	2					NSAMP=13		[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(44) WBIS6824+2422	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10			Pattern 3, Exps 3-3 in WBIS6824+2422 (33) (3)	275 Secs (801 Secs)	
	2							[==>267.0 Secs (Pattern 1)] [==>267.0 Secs (Pattern 2)] [==>267.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - WBIS1845+2758 (34) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:09 GMT 2020

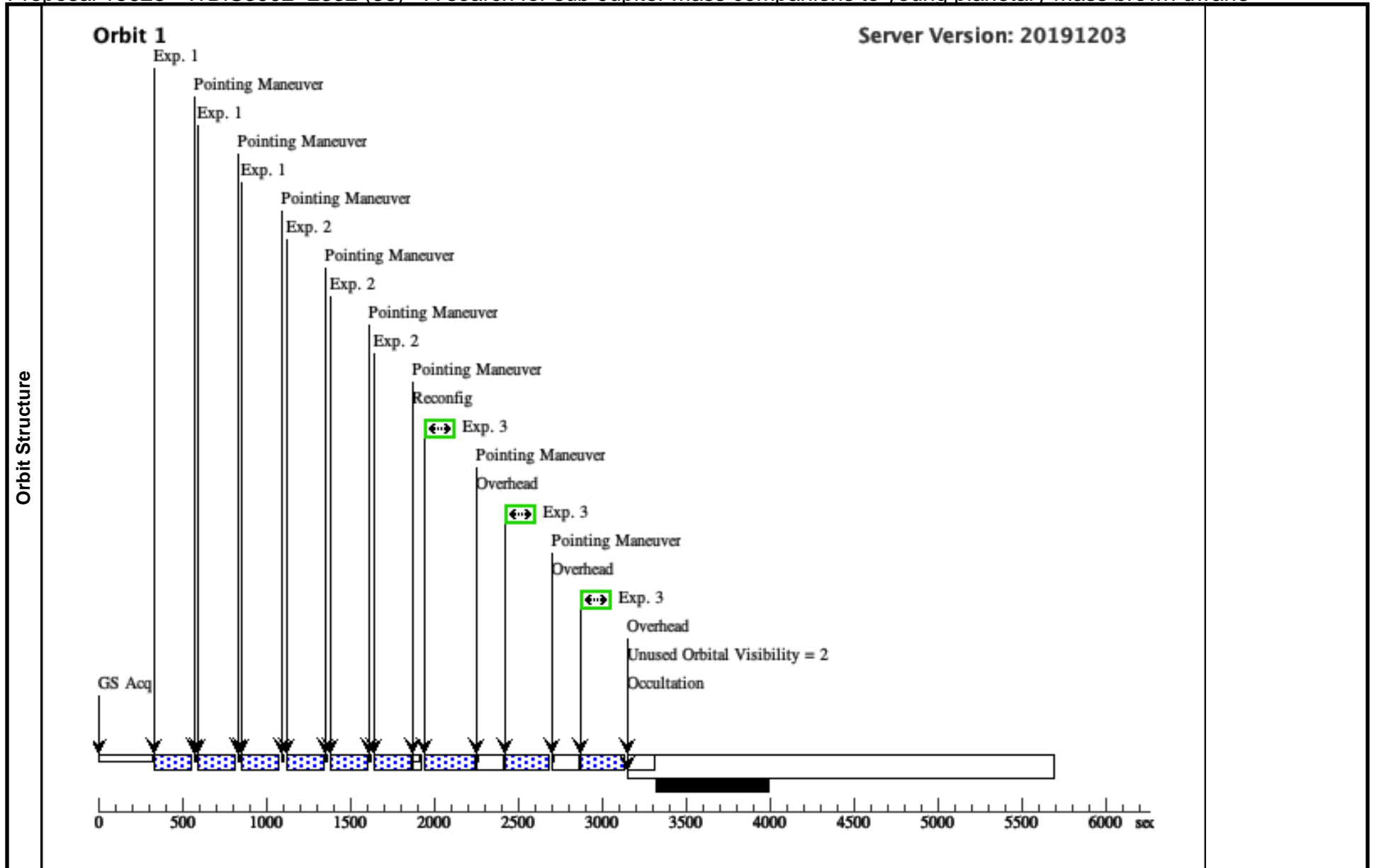
Visit	Proposal 15628, WBIS1845+2758 (34), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(45)	WBIS1845+2758	RA: 04 18 45.3000 (64.6887500d) Dec: +27 58 47.00 (27.97972d) Equinox: J2000		V=(?) JHKs = 16.6, 15.8, 15.1, M9-L1	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(45) WBIS1845+2758	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP25;		Pattern 4, Exps 1-1 in WBIS1845+2758 (34) (4)	197.203399 Secs (591.61 Secs)	
						NSAMP=13			[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(45) WBIS1845+2758	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP25;		Pattern 4, Exps 2-2 in WBIS1845+2758 (34) (4)	197.203399 Secs (591.61 Secs)	
					NSAMP=13			[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(45) WBIS1845+2758	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 in WBIS1845+2758 (34) (3)	275 Secs (810 Secs)		
								[==>270.0 Secs (Pattern 1)] [==>270.0 Secs (Pattern 2)] [==>270.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - WBIS3902+2332 (35) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:09 GMT 2020

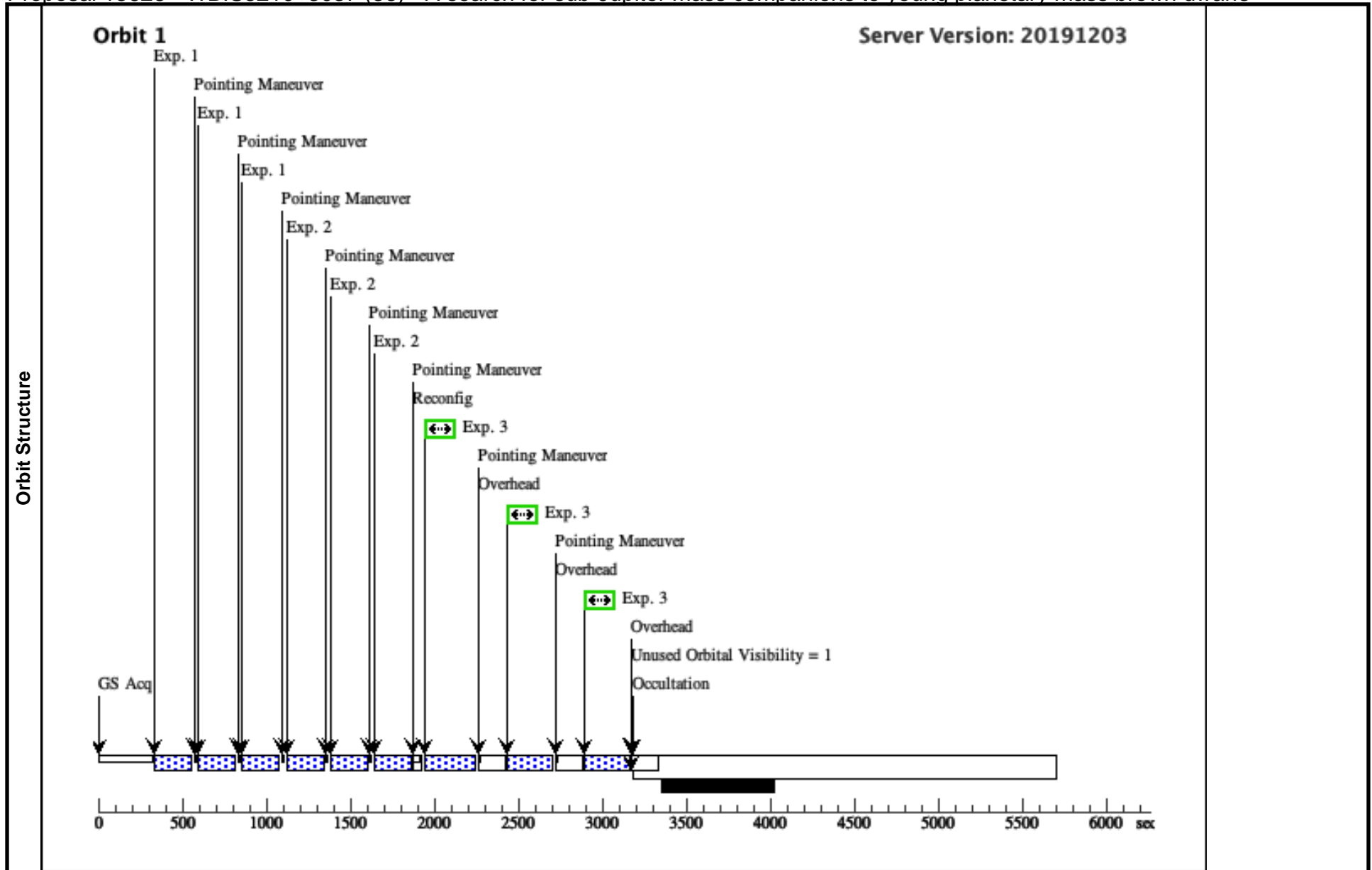
Visit	Proposal 15628, WBIS3902+2332 (35), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(46)	WBIS3902+2332	RA: 04 39 2.4000 (69.7600000d) Dec: +23 32 12.00 (23.53667d) Equinox: J2000		V=(?) JHKs = 17.2, 16.4, 15.5, M9-L1	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(46) WBIS3902+2332	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP25;		Pattern 4, Exps 1-1 in WBIS3902+2332 (35) (4)	197.203399 Secs (591.61 Secs)	
		2					NSAMP=13		[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(46) WBIS3902+2332	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP25;		Pattern 4, Exps 2-2 in WBIS3902+2332 (35) (4)	197.203399 Secs (591.61 Secs)	
	2					NSAMP=13		[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(46) WBIS3902+2332	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 in WBIS3902+2332 (35) (3)	275 Secs (801 Secs)		
	2							[==>267.0 Secs (Pattern 1)] [==>267.0 Secs (Pattern 2)] [==>267.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - WBIS5210+3037 (36) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:09 GMT 2020

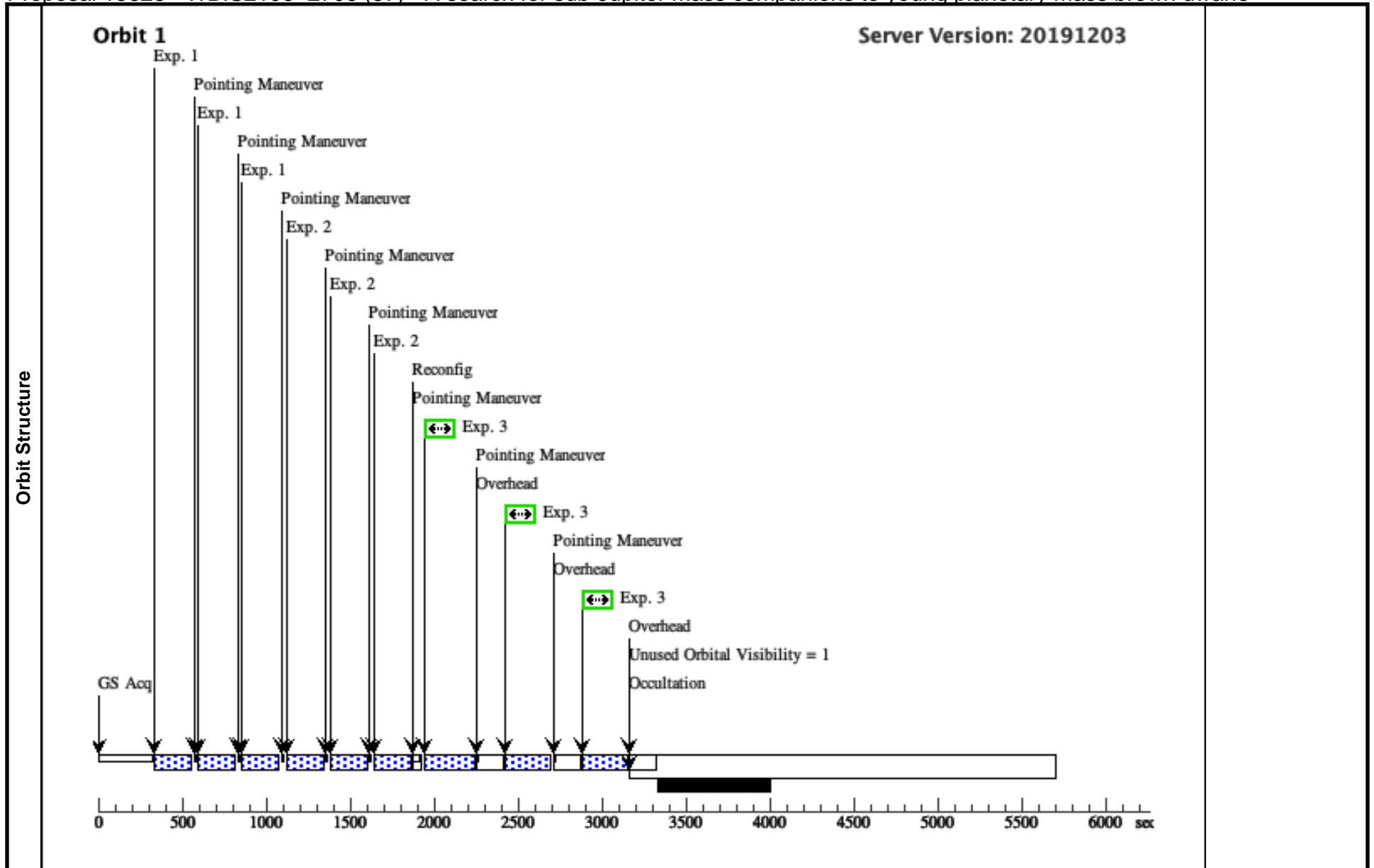
Visit	Proposal 15628, WBIS5210+3037 (36), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(47)	WBIS5210+3037	RA: 04 52 10.4000 (73.0433333d) Dec: +30 37 34.00 (30.62611d) Equinox: J2000		V=(?) JHKs = 17.1, 16.2, 15.4, M9-L1	Reference Frame: ICRS				
<i>Comments:</i> <i>Category=STAR</i> <i>Description=[BROWN DWARF]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(47) WBIS5210+3037	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP25; NSAMP=13		Pattern 4, Exps 1-1 in WBIS5210+3037 (36) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(47) WBIS5210+3037	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP25; NSAMP=13		Pattern 4, Exps 2-2 in WBIS5210+3037 (36) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3		(47) WBIS5210+3037	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 in WBIS5210+3037 (36) (3)	272 Secs (825 Secs) [=>275.0 Secs (Pattern 1)] [=>275.0 Secs (Pattern 2)] [=>275.0 Secs (Pattern 3)]	[1]



Proposal 15628 - WBIS2106+2706 (37) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:09 GMT 2020

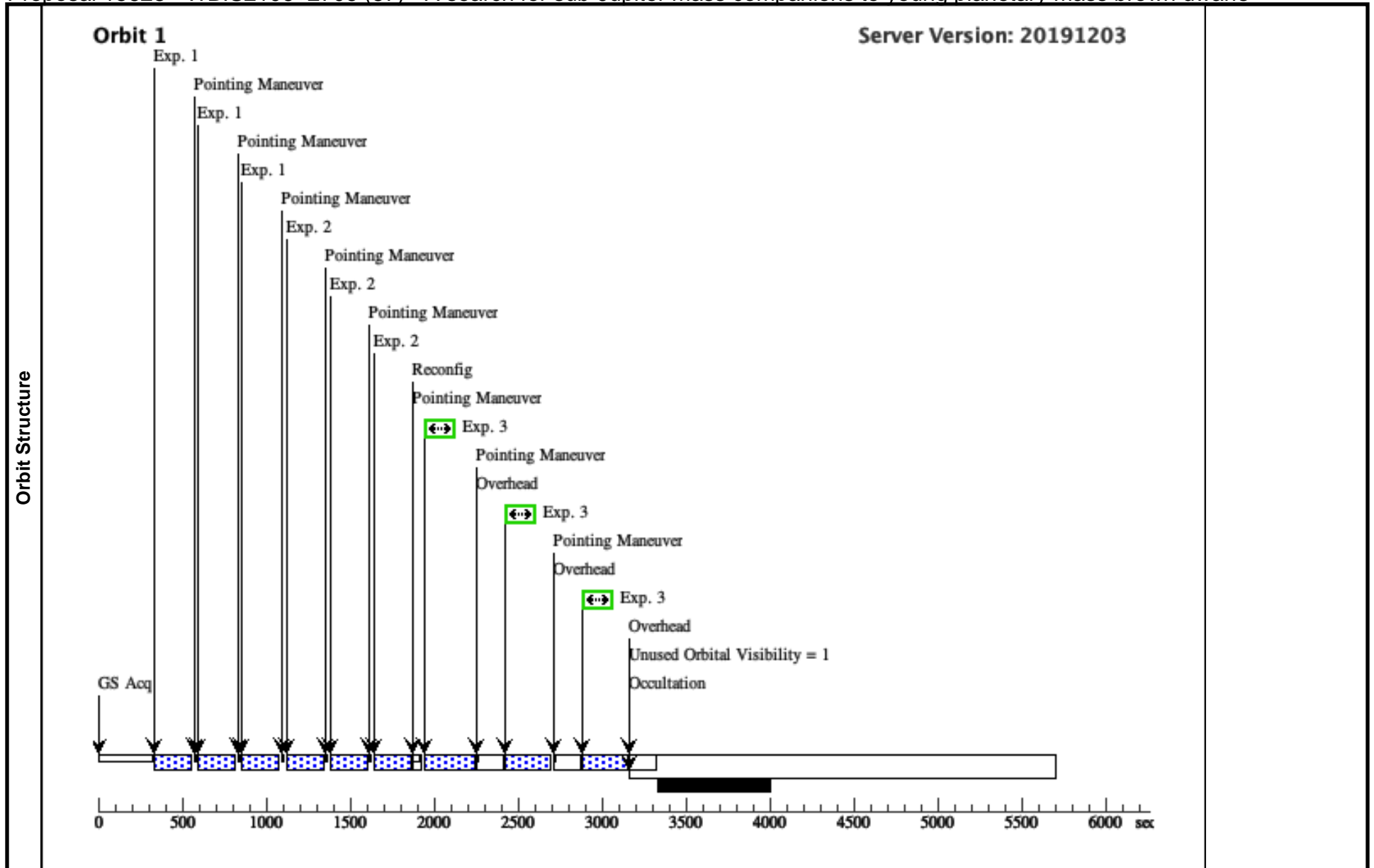
Visit	Proposal 15628, WBIS2106+2706 (37), failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(48)	WBIS2106+2706	RA: 04 21 6.4000 (65.2766667d) Dec: +27 06 54.00 (27.11500d) Equinox: J2000		V=(?) JHKs = 17.2, 16.4, 15.4, M9	Reference Frame: ICRS				
Comments: Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(48) WBIS2106+2706 6	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 in WBIS2106+2706 (37) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(48) WBIS2106+2706 6	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 in WBIS2106+2706 (37) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3		(48) WBIS2106+2706 6	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 in WBIS2106+2706 (37) (3)	275 Secs (810 Secs) [=>270.0 Secs (Pattern 1)] [=>270.0 Secs (Pattern 2)] [=>270.0 Secs (Pattern 3)]	[1]



Proposal 15628 - WBIS2106+2706 (87) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:09 GMT 2020

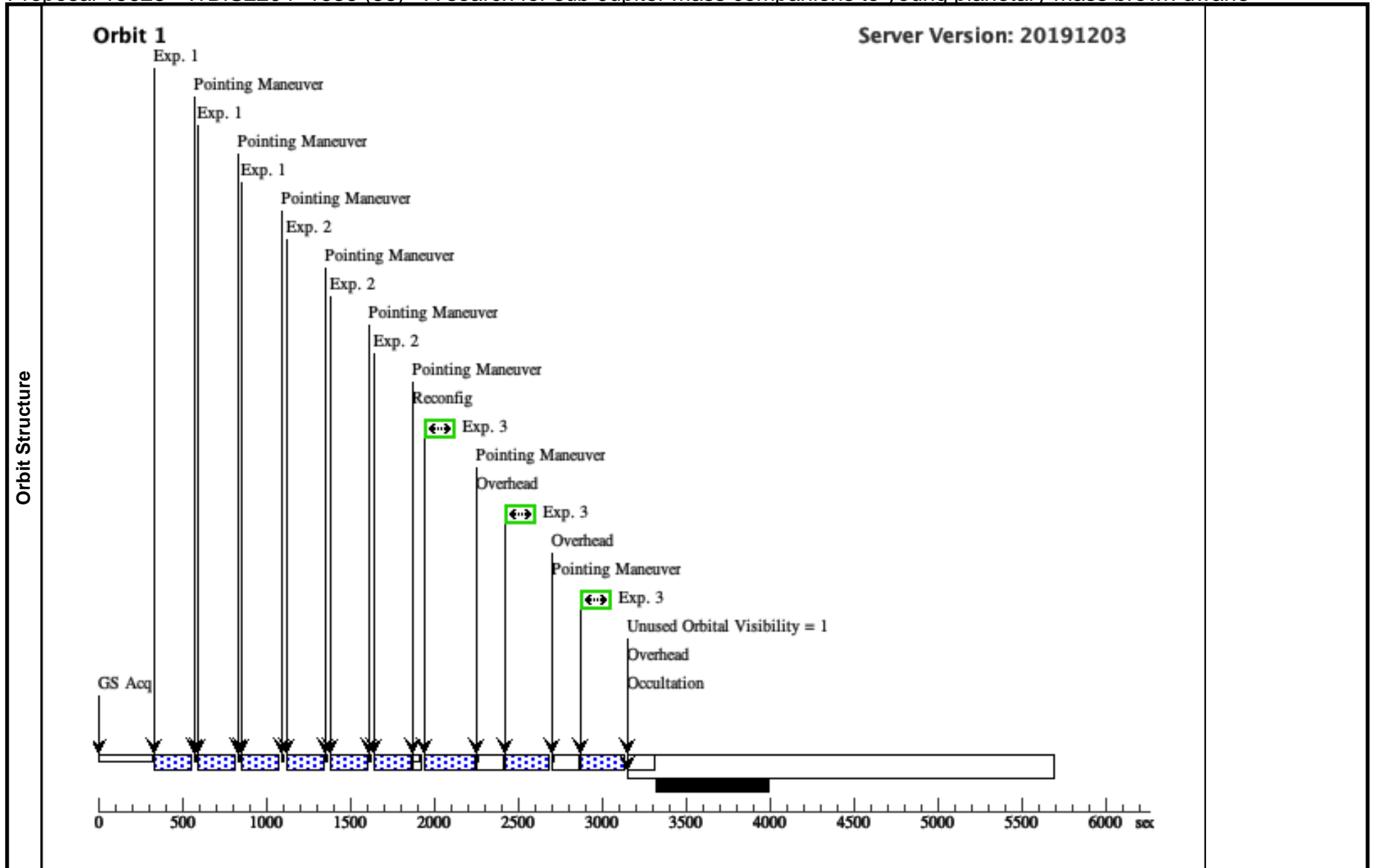
Visit	Proposal 15628, WBIS2106+2706 (87) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(48)	WBIS2106+2706	RA: 04 21 6.4000 (65.2766667d) Dec: +27 06 54.00 (27.11500d) Equinox: J2000		V=(?) JHKs = 17.2, 16.4, 15.4, M9	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(48) WBIS2106+2706 6	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 in WBIS2106+2706 (87) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(48) WBIS2106+2706 6	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 in WBIS2106+2706 (87) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3		(48) WBIS2106+2706 6	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 in WBIS2106+2706 (87) (3)	275 Secs (810 Secs) [=>270.0 Secs (Pattern 1)] [=>270.0 Secs (Pattern 2)] [=>270.0 Secs (Pattern 3)]	[1]



Proposal 15628 - WBIS2204+1536 (38) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:10 GMT 2020

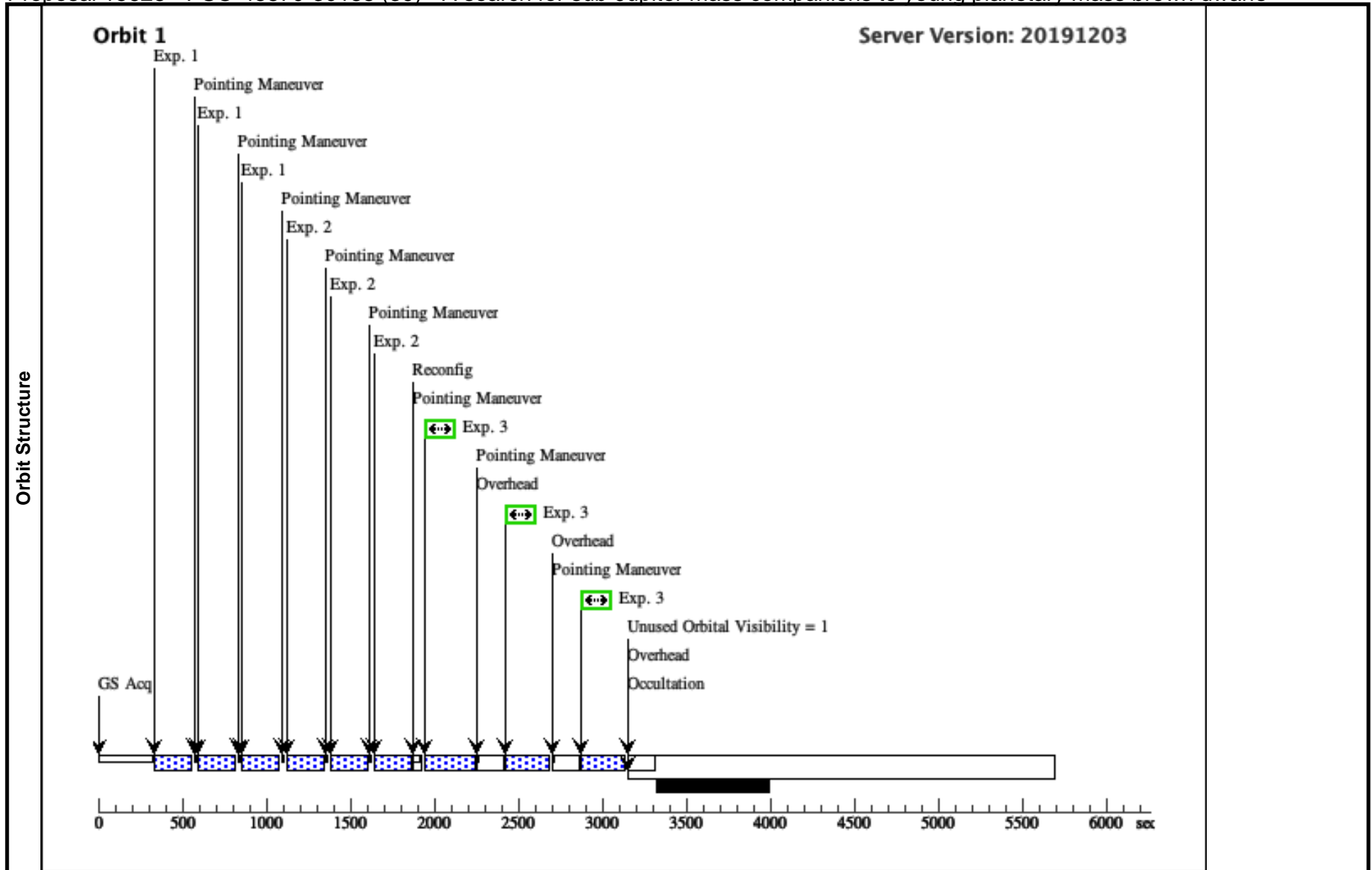
Visit	Proposal 15628, WBIS2204+1536 (38), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(49)	WBIS2204+1536	RA: 04 22 4.5000 (65.5187500d) Dec: +15 36 20.00 (15.60556d) Equinox: J2000		V=(?) JHKs = 15.7, 15.2, 14.6, M9	Reference Frame: ICRS				
Comments: Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(49) WBIS2204+1536	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP25;		Pattern 4, Exps 1-1 in WBIS2204+1536 (38) (4)	197.203399 Secs (591.61 Secs)	
		6					NSAMP=13		[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(49) WBIS2204+1536	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP25;		Pattern 4, Exps 2-2 in WBIS2204+1536 (38) (4)	197.203399 Secs (591.61 Secs)	
	6					NSAMP=13		[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(49) WBIS2204+1536	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 in WBIS2204+1536 (38) (3)	275 Secs (801 Secs)		
	6							[==>267.0 Secs (Pattern 1)] [==>267.0 Secs (Pattern 2)] [==>267.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - PSO-48870-30188 (39) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:10 GMT 2020

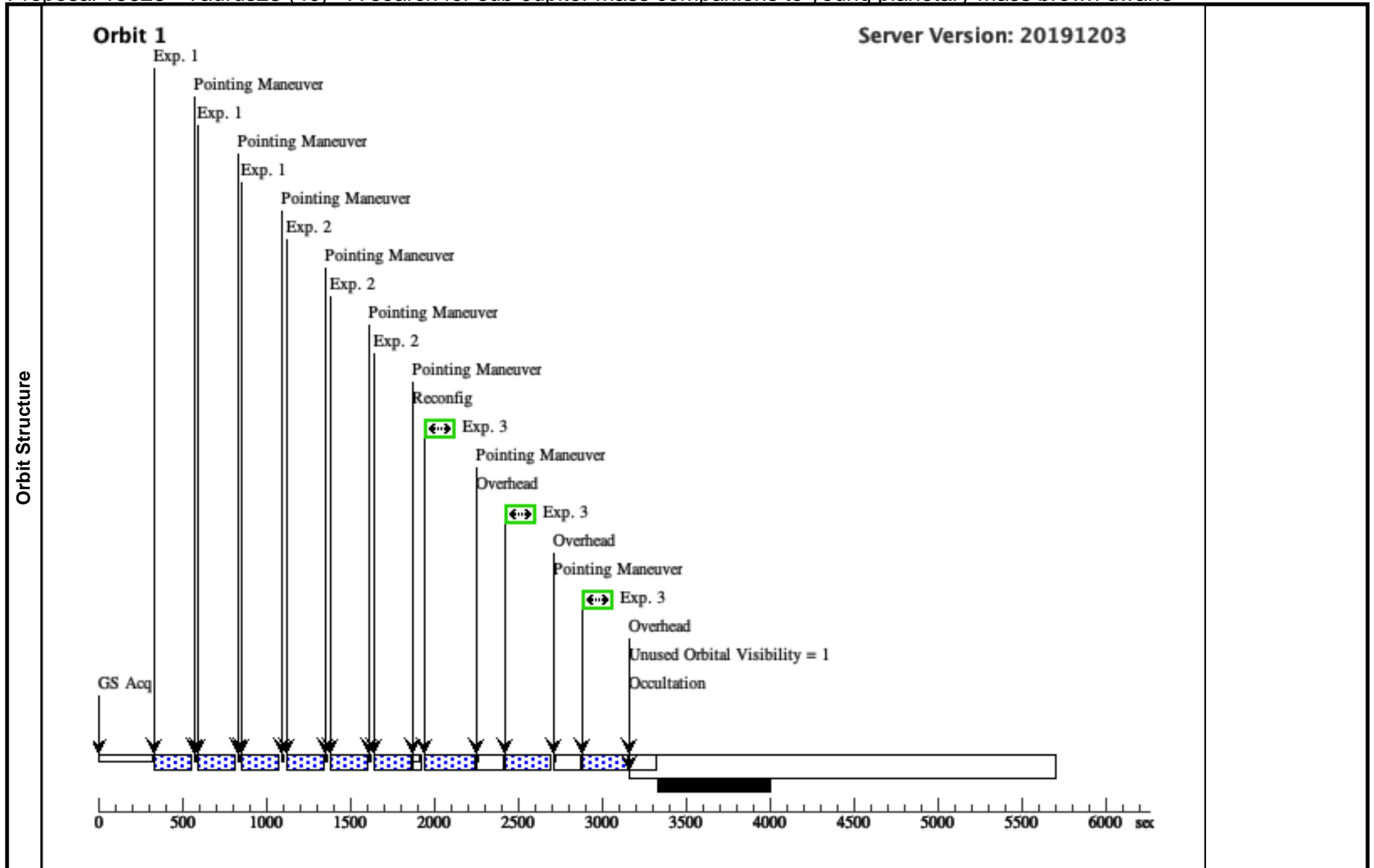
Visit	Proposal 15628, PSO-48870-30188 (39), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	PSO-48870-30188	RA: 04 23 32.9170 (65.8871542d) Dec: +19 50 19.12 (19.83864d) Equinox: J2000		V=(?) J=13.78+-0.02, L0 (Zhang et al. 2018)	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(11) PSO-48870-30188	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP25; NSAMP=13		Pattern 4, Exps 1-1 in PSO-48870-30188 (39) (4)	197.203399 Secs (591.61 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(11) PSO-48870-30188	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP25; NSAMP=13		Pattern 4, Exps 2-2 in PSO-48870-30188 (39) (4)	197.203399 Secs (591.61 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3		(11) PSO-48870-30188	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 in PSO-48870-30188 (39) (3)	275 Secs (801 Secs) [==>267.0 Secs (Pattern 1)] [==>267.0 Secs (Pattern 2)] [==>267.0 Secs (Pattern 3)]	[1]



Proposal 15628 - Taurus23 (40) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:10 GMT 2020

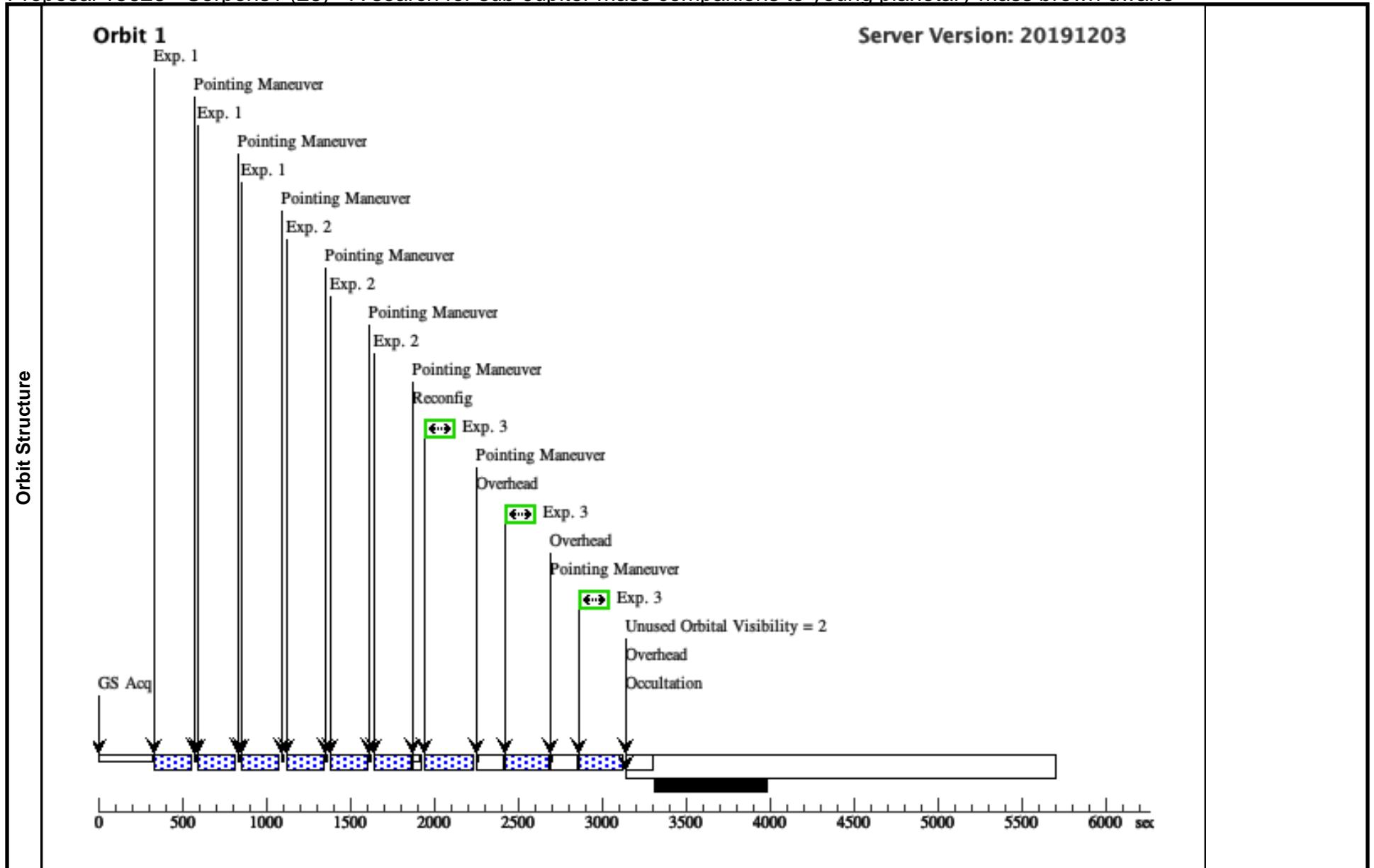
Visit	Proposal 15628, Taurus23 (40), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(30)	TAURUS23	RA: 04 49 22.1000 (72.3420833d) Dec: +29 11 12.40 (29.18678d) Equinox: J2000		V=(?) Ks=13.8, M8.5 (Esplin & Luhman 2017)	Reference Frame: ICRS				
Comments: Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(30) TAURUS23	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Taurus23 (40) (4)	197.203399 Secs (591.61 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(30) TAURUS23	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Taurus23 (40) (4)	197.203399 Secs (591.61 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3		(30) TAURUS23	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n Taurus23 (40) (3)	290 Secs (810 Secs) [==>270.0 Secs (Pattern 1)] [==>270.0 Secs (Pattern 2)] [==>270.0 Secs (Pattern 3)]	[1]



Proposal 15628 - Serpens1 (26) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:10 GMT 2020

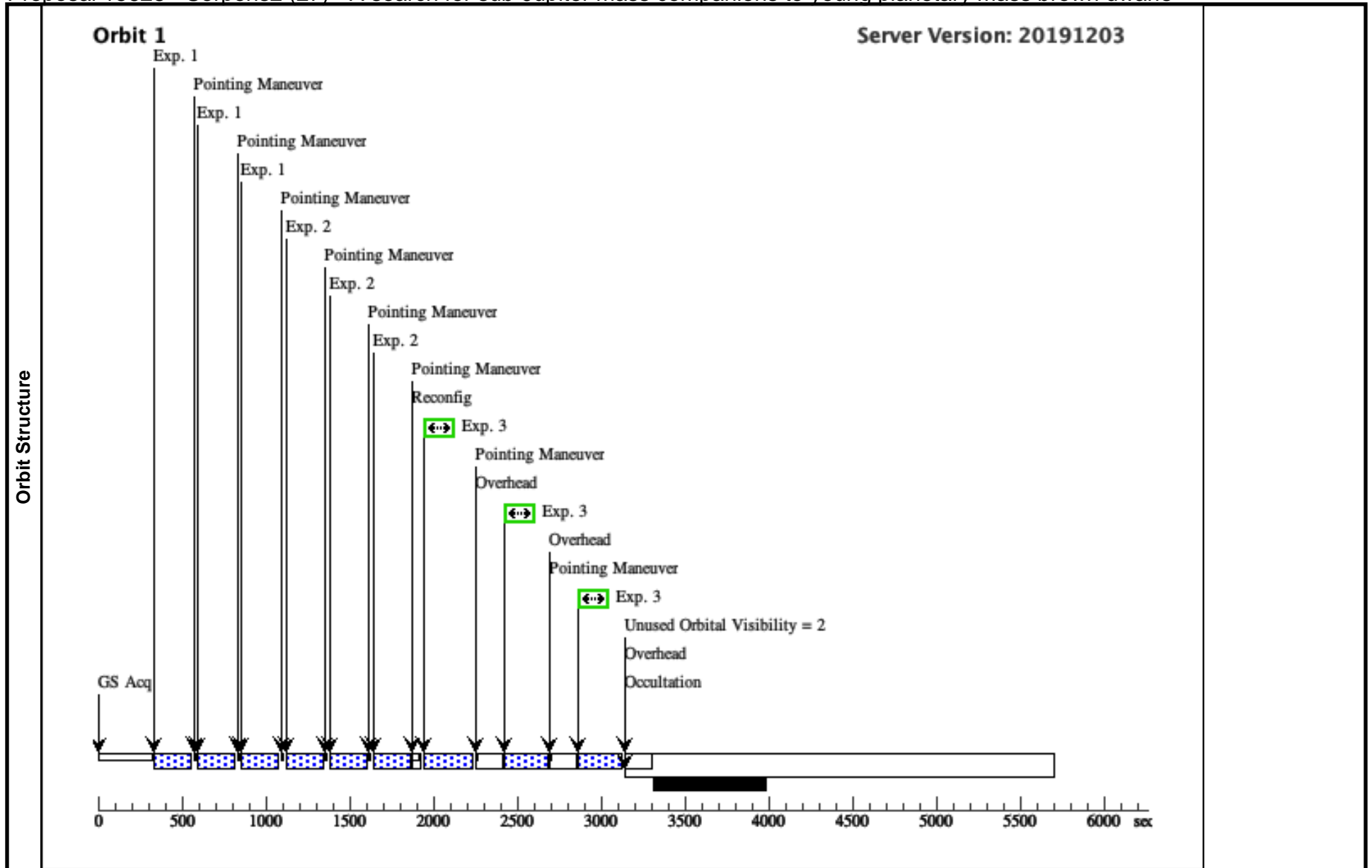
Visit	Proposal 15628, Serpens1 (26), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(37)	SERPENS1	RA: 18 30 44.3438 (277.6847658d) Dec: -02 09 18.45 (-2.15512d) Equinox: J2000		V=(?) J=16.3, M9	Reference Frame: ICRS				
Comments: Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(37) SERPENS1	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13	GS ACQ SCENARI O BASE1B3	Pattern 4, Exps 1-1 i n Serpens1 (26) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(37) SERPENS1	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Serpens1 (26) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3		(37) SERPENS1	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n Serpens1 (26) (3)	275 Secs (786 Secs) [=>262.0 Secs (Pattern 1)] [=>262.0 Secs (Pattern 2)] [=>262.0 Secs (Pattern 3)]	[1]



Proposal 15628 - Serpens2 (27) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:10 GMT 2020

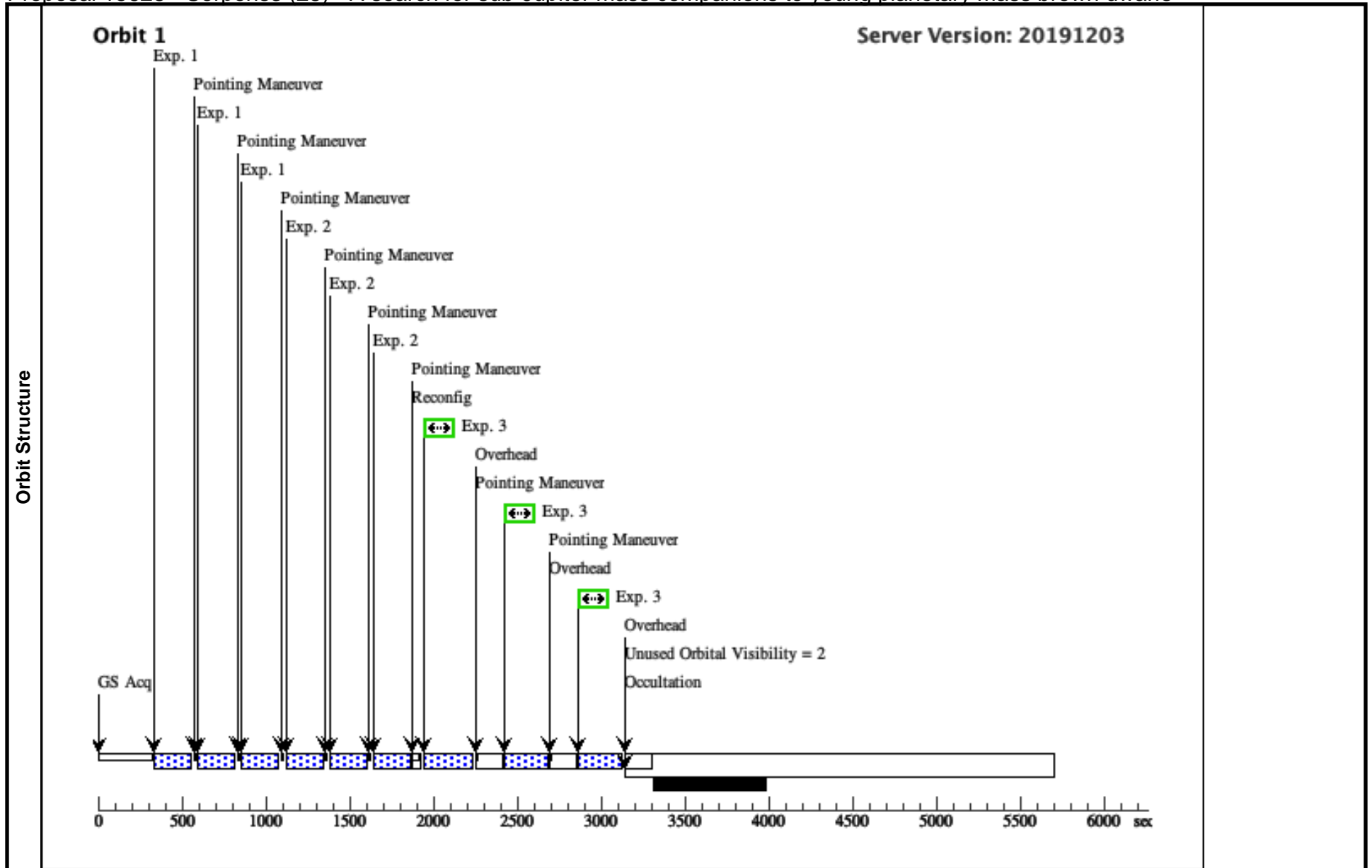
Visit	Proposal 15628, Serpens2 (27), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(38)	SERPENS2	RA: 18 29 16.6409 (277.3193371d) Dec: -02 03 39.77 (-2.06105d) Equinox: J2000		V=(?) J=18.4, M8	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(38) SERPENS2	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Serpens2 (27) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(38) SERPENS2	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Serpens2 (27) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(38) SERPENS2	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10			Pattern 3, Exps 3-3 i n Serpens2 (27) (3)	275 Secs (786 Secs)	
								[==>262.0 Secs (Pattern 1)] [==>262.0 Secs (Pattern 2)] [==>262.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - Serpens3 (28) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:10 GMT 2020

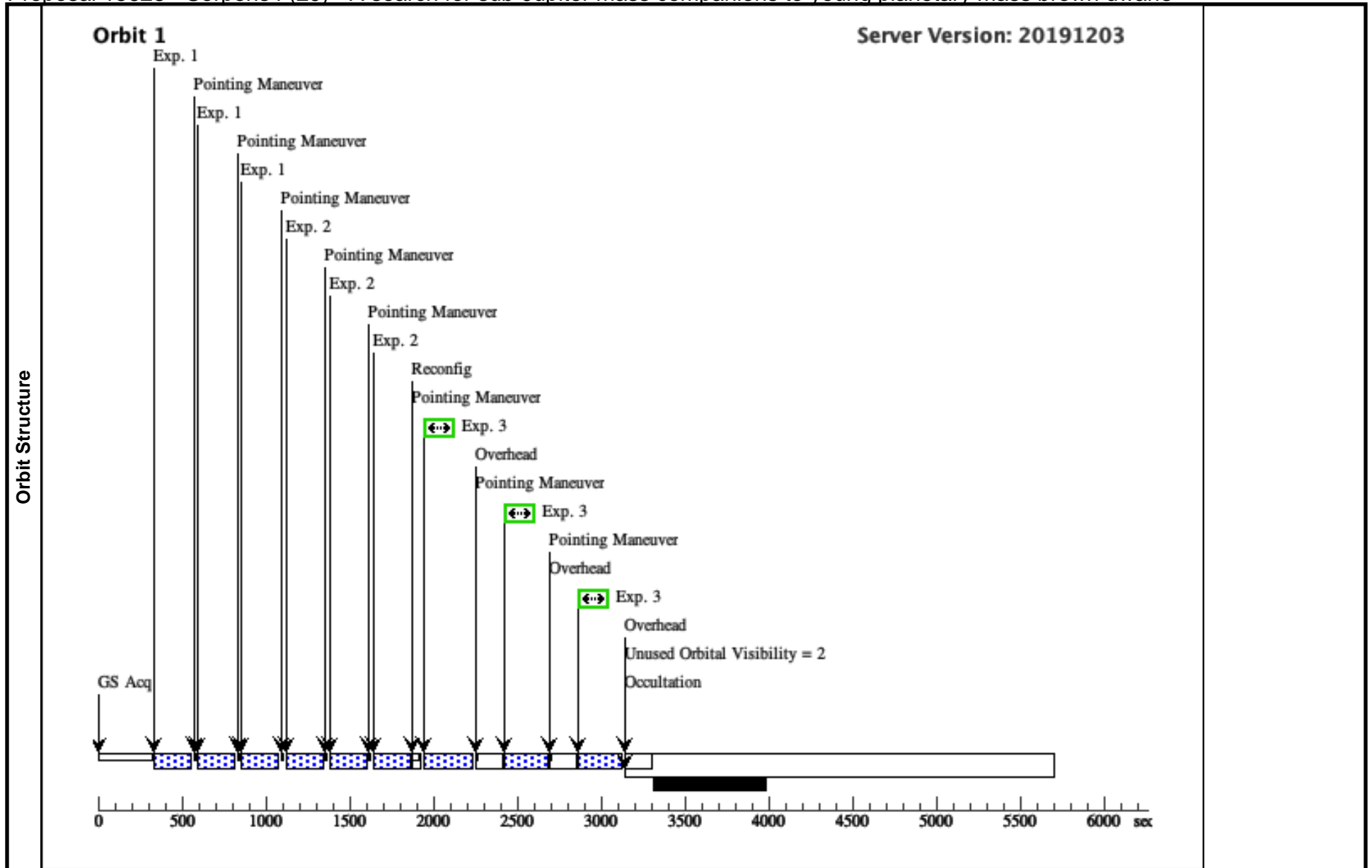
Visit	Proposal 15628, Serpens3 (28), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(39)	SERPENS3	RA: 18 29 18.1440 (277.3256000d) Dec: -02 02 45.08 (-2.04586d) Equinox: J2000		V=(?) J=16.4, M6.5	Reference Frame: ICRS				
<i>Comments:</i> <i>Category=STAR</i> <i>Description=[BROWN DWARF]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(39) SERPENS3	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 in Serpens3 (28) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(39) SERPENS3	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 in Serpens3 (28) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(39) SERPENS3	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 in Serpens3 (28) (3)	275 Secs (786 Secs)		
								[==>262.0 Secs (Pattern 1)] [==>262.0 Secs (Pattern 2)] [==>262.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - Serpens4 (29) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:10 GMT 2020

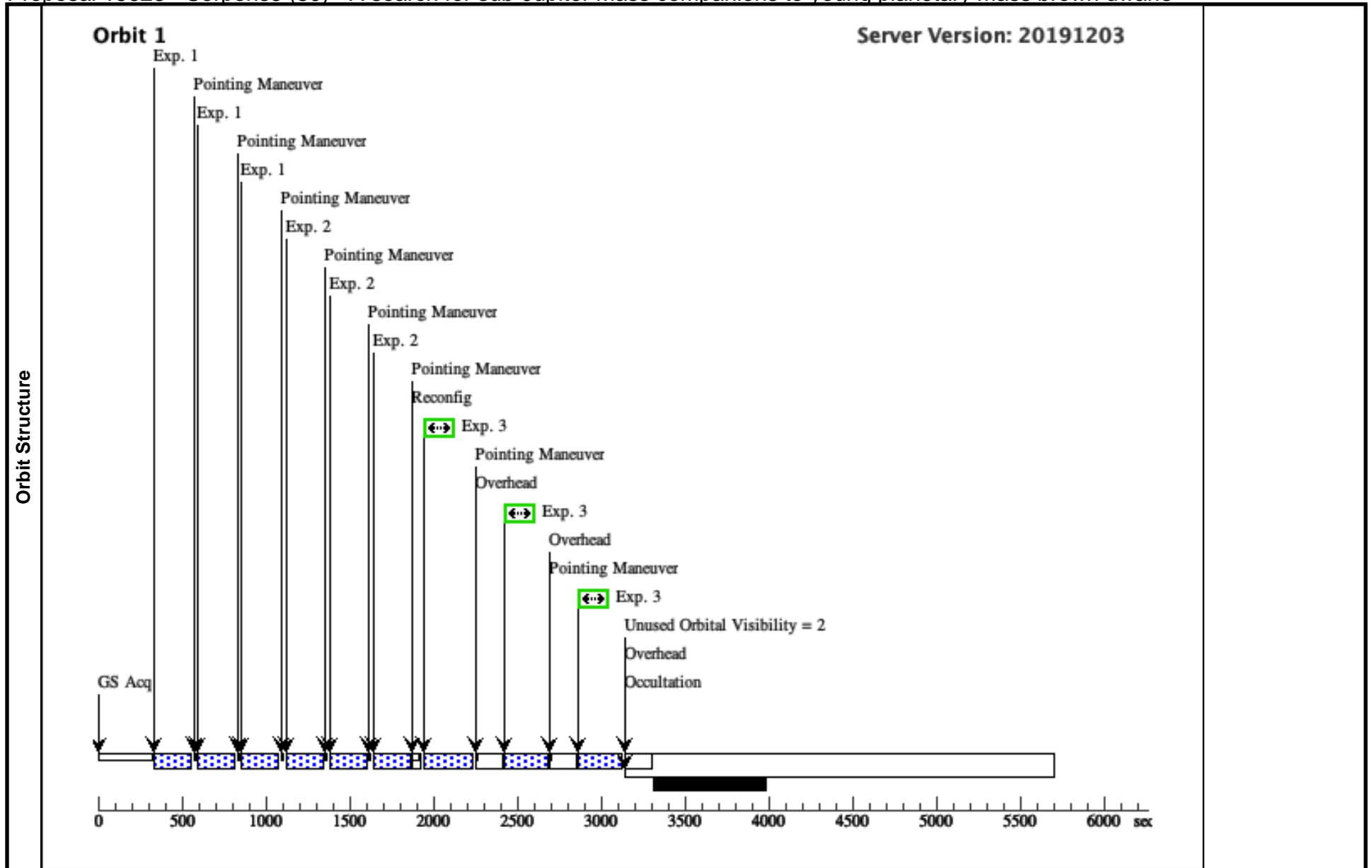
Visit	Proposal 15628, Serpens4 (29), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(40)	SERPENS4	RA: 18 29 48.9787 (277.4540779d) Dec: -02 03 8.12 (-2.05226d) Equinox: J2000		V=(?) J=18.6, M6.5	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(40) SERPENS4	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Serpens4 (29) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(40) SERPENS4	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Serpens4 (29) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(40) SERPENS4	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10			Pattern 3, Exps 3-3 i n Serpens4 (29) (3)	275 Secs (786 Secs)	
								[==>262.0 Secs (Pattern 1)] [==>262.0 Secs (Pattern 2)] [==>262.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - Serpens5 (30) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:10 GMT 2020

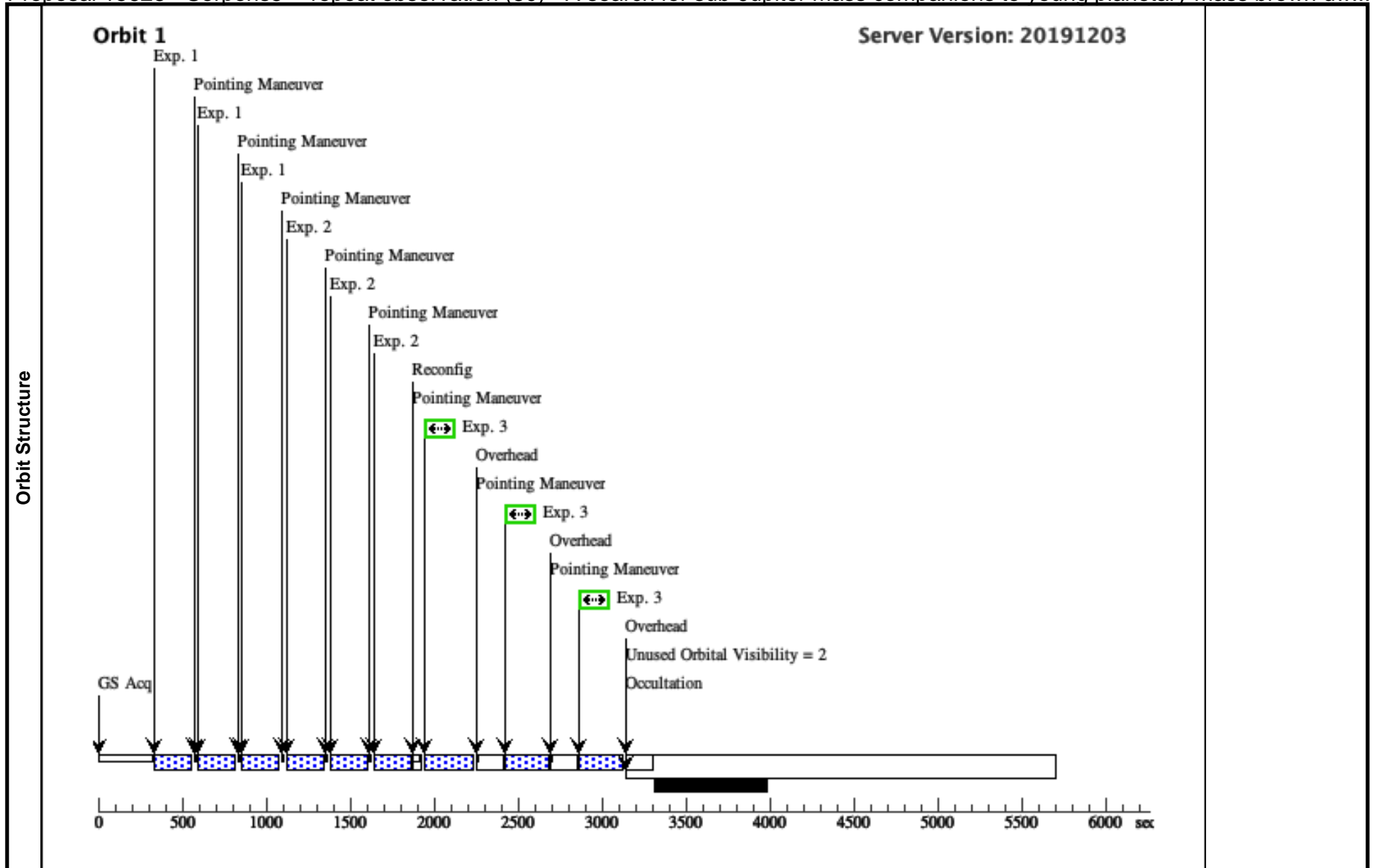
Visit	Proposal 15628, Serpens5 (30), failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(41)	SERPENS5	RA: 18 29 52.7122 (277.4696342d) Dec: -01 56 39.20 (-1.94422d) Equinox: J2000		V=(?) J=17.93, M8	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(41) SERPENS5	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 i n Serpens5 (30) (4)	197.203399 Secs (591.61 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(41) SERPENS5	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Serpens5 (30) (4)	197.203399 Secs (591.61 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
3		(41) SERPENS5	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10			Pattern 3, Exps 3-3 i n Serpens5 (30) (3)	275 Secs (786 Secs)	
								[==>262.0 Secs (Pattern 1)] [==>262.0 Secs (Pattern 2)] [==>262.0 Secs (Pattern 3)]	[1]	



Proposal 15628 - Serpens5 -- repeat observation (80) - A search for sub-Jupiter mass companions to young planetary mass brown dw...

Tue Feb 04 17:01:10 GMT 2020

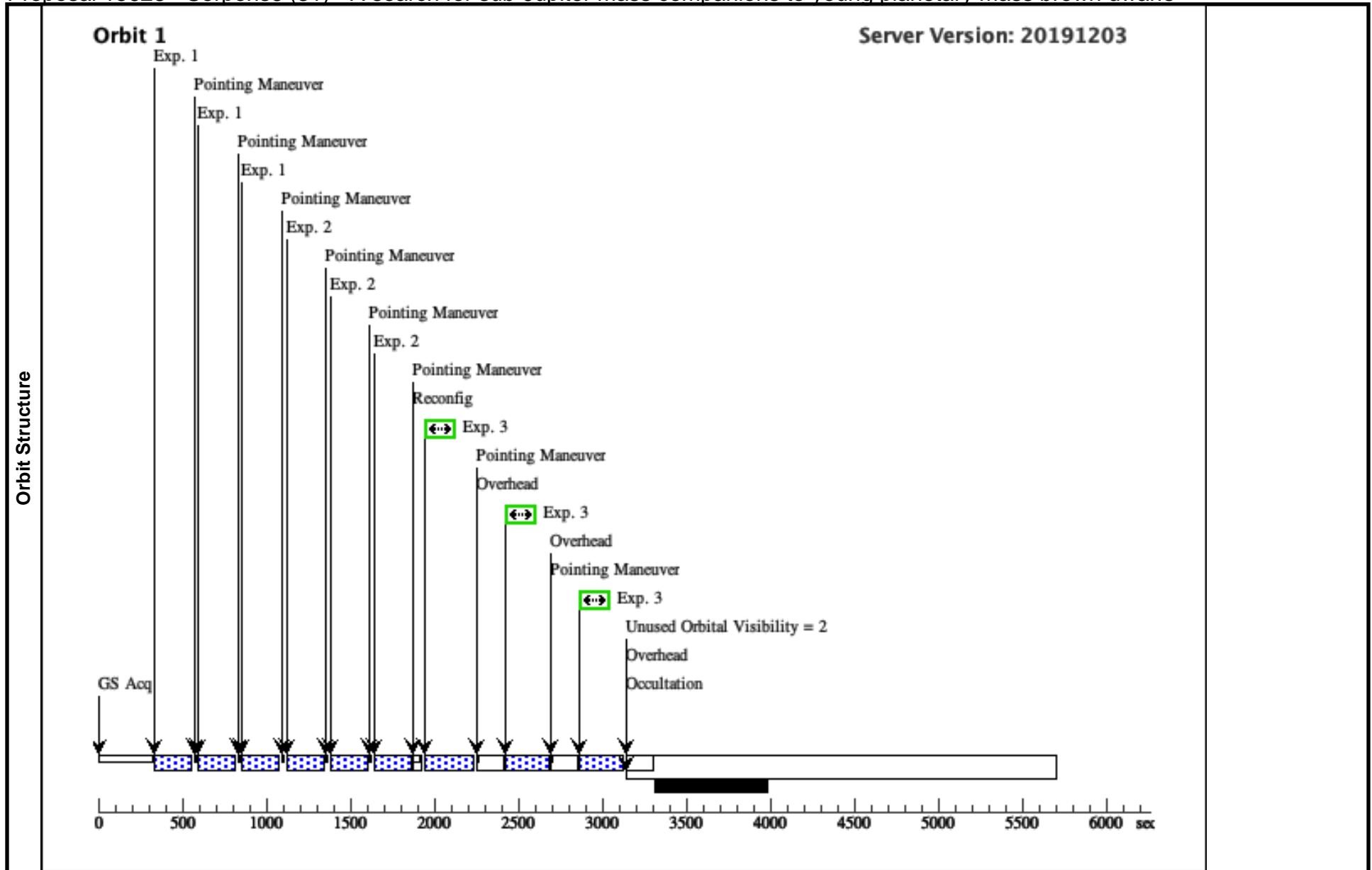
Visit	Proposal 15628, Serpens5 -- repeat observation (80), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)										
	#	Primary Pattern				Secondary Pattern			Exposures		
Patterns		(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(3)	
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(1), (2)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(41)	SERPENS5	RA: 18 29 52.7122 (277.4696342d) Dec: -01 56 39.20 (-1.94422d) Equinox: J2000				V=(?) J=17.93, M8		Reference Frame: ICRS		
Comments: Category=STAR Description=[BROWN DWARF]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(41) SERPENS5	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13	GS ACQ SCENARI O BASE1B3	Pattern 4, Exps 1-1 i n Serpens5 -- repeat observation (80) (4)	197.203399 Secs (591.61 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
									[==>(Pattern 3)]		
2		(41) SERPENS5	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 i n Serpens5 -- repeat observation (80) (4)	197.203399 Secs (591.61 Secs)			
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
									[==>(Pattern 3)]		
3		(41) SERPENS5	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 i n Serpens5 -- repeat observation (80) (3)	275 Secs (786 Secs)			
									[==>262.0 Secs (Pattern 1)]		[1]
									[==>262.0 Secs (Pattern 2)]		
									[==>262.0 Secs (Pattern 3)]		



Proposal 15628 - Serpens6 (31) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Tue Feb 04 17:01:10 GMT 2020

Visit	Proposal 15628, Serpens6 (31), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(3)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3)						
	(4)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=3.25 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1), (2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(42)	SERPENS6	RA: 18 30 32.7804 (277.6365850d) Dec: -02 10 28.48 (-2.17458d) Equinox: J2000		V=(?) J=17.7, M8	Reference Frame: ICRS				
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(42) SERPENS6	WFC3/IR, MULTIACCUM, IRSUB512	F127M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 1-1 in Serpens6 (31) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(42) SERPENS6	WFC3/IR, MULTIACCUM, IRSUB512	F139M	SAMP-SEQ=STEP2 5; NSAMP=13		Pattern 4, Exps 2-2 in Serpens6 (31) (4)	197.203399 Secs (591.61 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3		(42) SERPENS6	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F850LP	FLASH=10		Pattern 3, Exps 3-3 in Serpens6 (31) (3)	275 Secs (786 Secs) [=>262.0 Secs (Pattern 1)] [=>262.0 Secs (Pattern 2)] [=>262.0 Secs (Pattern 3)]	[1]



Proposal 15628 - Oph followup observation (02) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

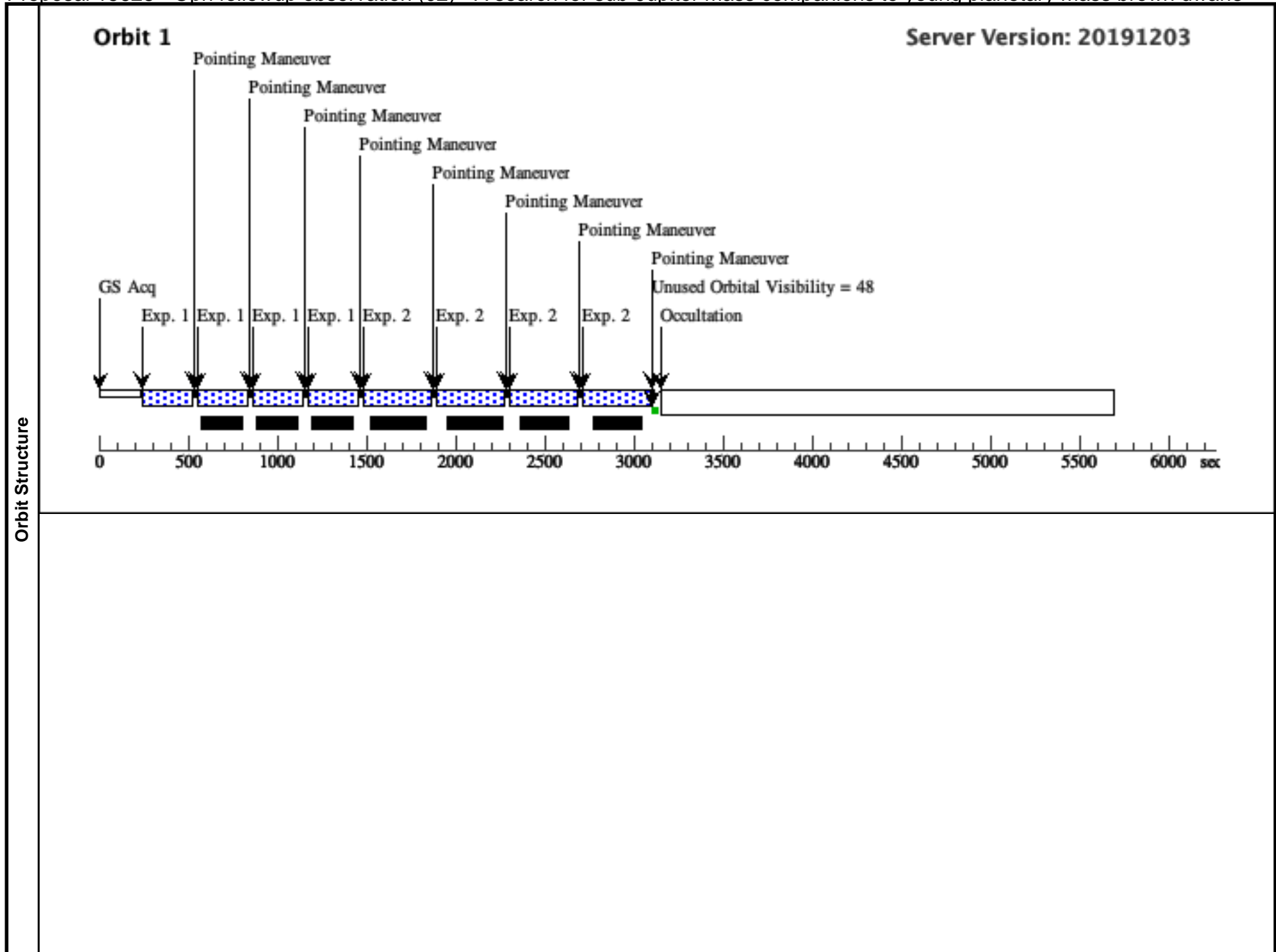
Tue Feb 04 17:01:10 GMT 2020

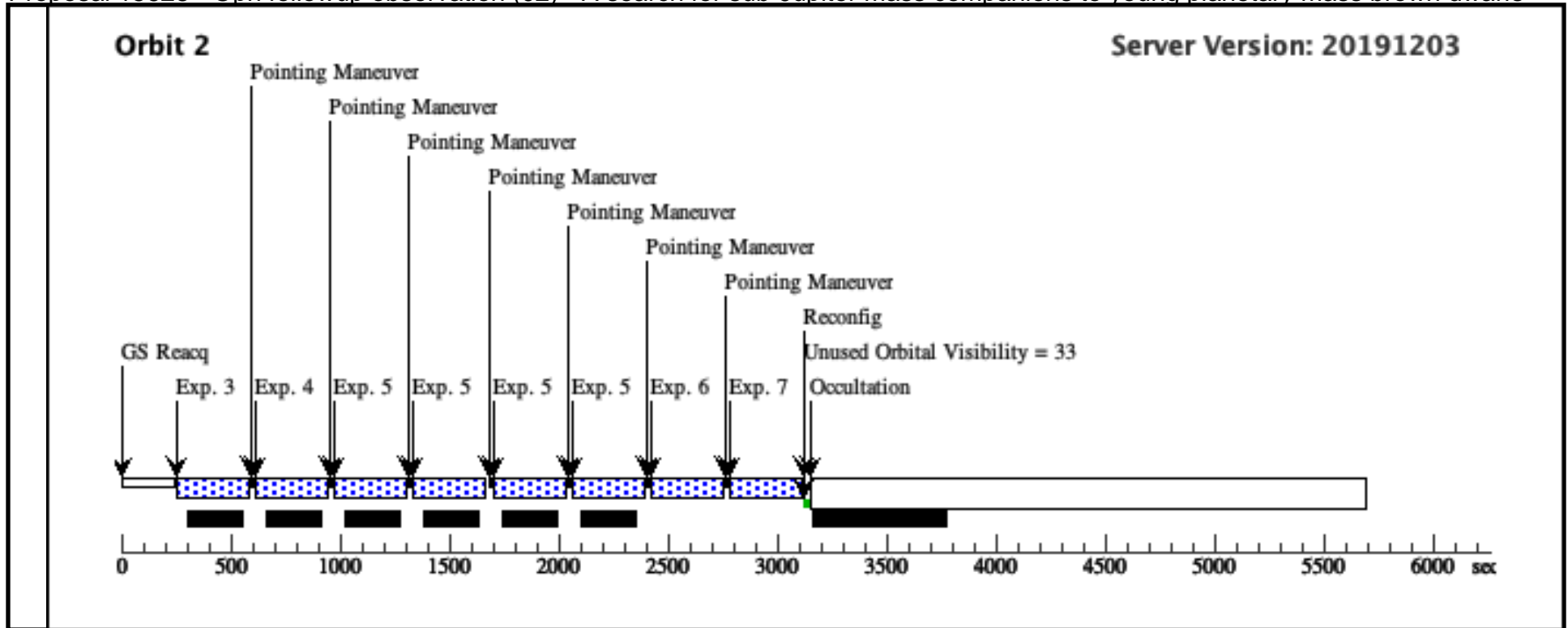
Visit	Proposal 15628, Oph followup observation (02), completed		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 0D TO 70 D; ORIENT 90D TO 160 D; ORIENT 180D TO 250 D; ORIENT 270D TO 340 D		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(36)	CFHTWIR-OPH57-FOLLOWUP	RA: 16 27 4.0230 (246.7667625d) Dec: -24 02 46.90 (-24.04636d) Equinox: J2000		V=(?) J=15.06, M7.25	Reference Frame: ICRS
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]						

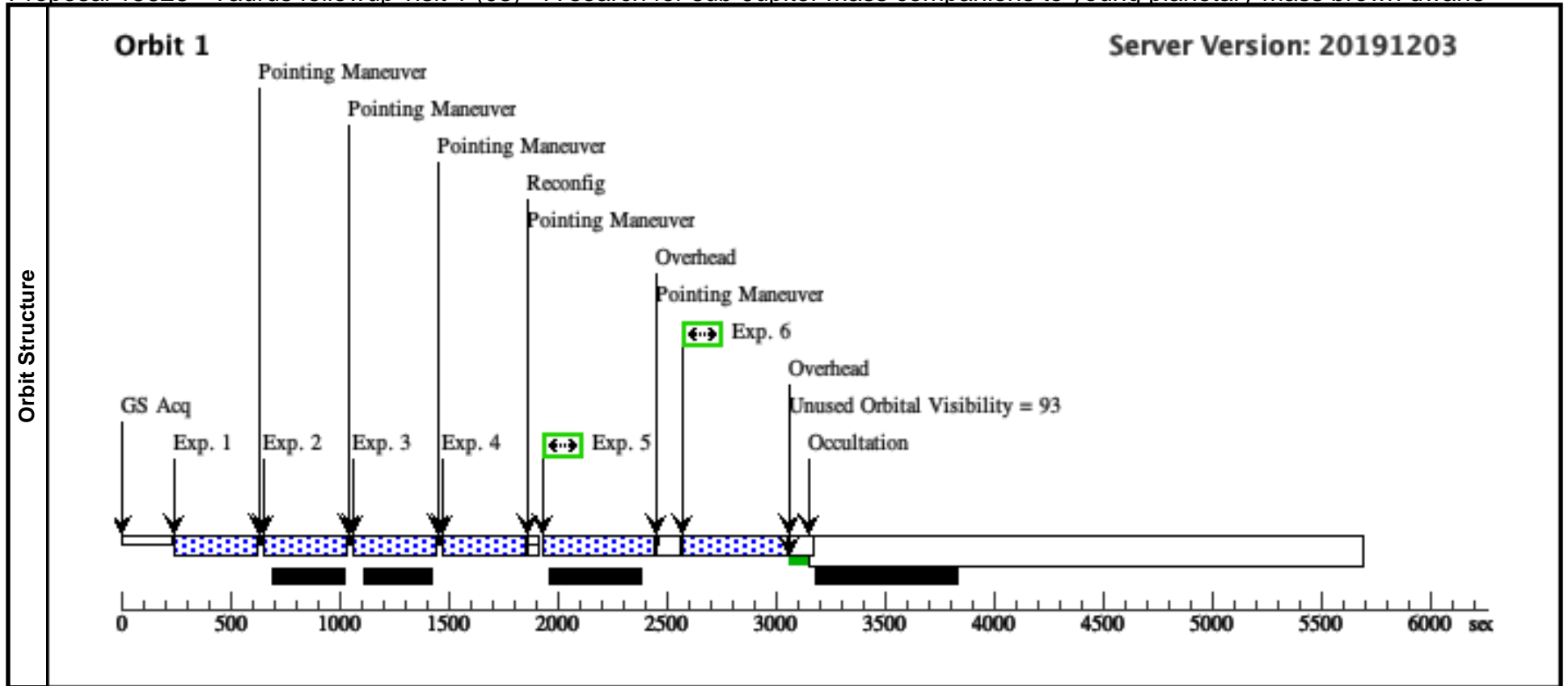
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(36) CFHTWIR-OPH57-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F125W	SAMP-SEQ=STEP50; NSAMP=10	GS ACQ SCENARIO SINGLE	Pattern 2, Exps 1-1 in Oph followup observation (02) (2)	249.23203 Secs (996.928 Secs)	[1]
2		(36) CFHTWIR-OPH57-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=STEP50; NSAMP=12		Pattern 2, Exps 2-2 in Oph followup observation (02) (2)	349.232932 Secs (1396.932 Secs)	[1]	
3		(36) CFHTWIR-OPH57-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP50; NSAMP=11			299.232481 Secs (299.232 Secs)	[2]	
4		(36) CFHTWIR-OPH57-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP50; NSAMP=11	POS TARG 0.542,0.182		299.232481 Secs (299.232 Secs)	[2]	
5		(36) CFHTWIR-OPH57-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F105W	SAMP-SEQ=STEP50; NSAMP=11		Pattern 2, Exps 5-5 in Oph followup observation (02) (2)	299.232481 Secs (1196.93 Secs)	[2]	
6		(36) CFHTWIR-OPH57-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP50; NSAMP=11	POS TARG 0.339,0.485		299.232481 Secs (299.232 Secs)	[2]	
7		(36) CFHTWIR-OPH57-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP50; NSAMP=11	POS TARG -0.203,0.303		299.232481 Secs (299.232 Secs)	[2]	





Proposal 15628 - Taurus followup visit 1 (03) - A search for sub-Jupiter mass companions to young planetary mass brown dwarfs

Visit	Proposal 15628, Taurus followup visit 1 (03), completed Tue Feb 04 17:01:10 GMT 2020									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ORIENT 0D TO 5 D; ORIENT 30D TO 95 D; ORIENT 125D TO 185 D; ORIENT 210D TO 275 D; ORIENT 300D TO 359 D									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(14)	TAURUS7-FOLLOWUP	RA: 04 35 6.9600 (68.7790000d) Dec: +23 07 50.50 (23.13069d) Equinox: J2000		V=(?) J=17.2, early L primary	Reference Frame: ICRS			
	Comments: Category=STAR Description=[BROWN DWARF]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(14) TAURUS7-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=STEP5 0; NSAMP=12	GS ACQ SCENARI O SINGLE		349.232932 Secs (349.233 Secs) [==>]	[1]
	2		(14) TAURUS7-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=STEP5 0; NSAMP=12	POS TARG 0.542,0. 182		349.232932 Secs (349.233 Secs) [==>]	[1]
	3		(14) TAURUS7-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F139M	SAMP-SEQ=STEP5 0; NSAMP=12			349.232932 Secs (349.233 Secs) [==>]	[1]
	4		(14) TAURUS7-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F139M	SAMP-SEQ=STEP5 0; NSAMP=12	POS TARG 0.542,0. 182		349.232932 Secs (349.233 Secs) [==>]	[1]
	5		(14) TAURUS7-FOLLOWUP	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F850LP	FLASH=10			508 Secs (478 Secs) [==>478.0 Secs]	[1]
	6		(14) TAURUS7-FOLLOWUP	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F850LP	FLASH=10	POS TARG 0.158,0. 070		508 Secs (478 Secs) [==>478.0 Secs]	[1]



Proposal 15628 - Taurus followup visit 2 -- second ORIENT (04) - A search for sub-Jupiter mass companions to young planetary mass...

Visit		Proposal 15628, Taurus followup visit 2 -- second ORIENT (04), completed Tue Feb 04 17:01:10 GMT 2020									
Fixed Targets		Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ORIENT 90D TO 120D FROM 03									
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous						
(14)	TAURUS7-FOLLOWUP	RA: 04 35 6.9600 (68.7790000d) Dec: +23 07 50.50 (23.13069d) Equinox: J2000		V=(?) J=17.2, early L primary	Reference Frame: ICRS						
<i>Comments:</i> Category=STAR Description=[BROWN DWARF]											
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	(14) TAURUS7-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=STEP5 0; NSAMP=12	POS TARG 0.339,0.485; GS ACQ SCENARIO SINGLE		349.232932 Secs (349.233 Secs) [==>]	[1]	
		2	(14) TAURUS7-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F127M	SAMP-SEQ=STEP5 0; NSAMP=12	POS TARG -0.203,0.303		349.232932 Secs (349.233 Secs) [==>]	[1]	
		3	(14) TAURUS7-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F139M	SAMP-SEQ=STEP5 0; NSAMP=12	POS TARG 0.339,0.485		349.232932 Secs (349.233 Secs) [==>]	[1]	
		4	(14) TAURUS7-FOLLOWUP	WFC3/IR, MULTIACCUM, IR	F139M	SAMP-SEQ=STEP5 0; NSAMP=12	POS TARG -0.203,0.303		349.232932 Secs (349.233 Secs) [==>]	[1]	
		5	(14) TAURUS7-FOLLOWUP	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F850LP	FLASH=10	POS TARG 0.099,0.165		508 Secs (478 Secs) [==>478.0 Secs]	[1]	
		6	(14) TAURUS7-FOLLOWUP	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F850LP	FLASH=10	POS TARG -0.060,0.095		508 Secs (478 Secs) [==>478.0 Secs]	[1]	

