



## 16268 - Resolving Mass Benchmarks for Ultracool Atmospheres

Cycle: 28, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

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### VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) SDSSPJ042348.57-041403.5	WFC3/IR	1	14-Oct-2022 14:00:33.0	yes
51	(1) SDSSPJ042348.57-041403.5	WFC3/IR	1	14-Oct-2022 14:00:34.0	yes
02	(3) WISEJ072003.20-084651.2	WFC3/IR	1	14-Oct-2022 14:00:35.0	yes
03	(2) 2MASSJ0746425+200032	WFC3/IR	1	14-Oct-2022 14:00:36.0	yes
04	(4) LHS2397A	WFC3/IR	1	14-Oct-2022 14:00:38.0	yes
05	(5) KELU-1	WFC3/IR	1	14-Oct-2022 14:00:39.0	yes
06	(6) 2MASSJ14044948-3159330	WFC3/IR	1	14-Oct-2022 14:00:40.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
07	(7) 2MASSWJ1728114+394859	WFC3/IR	1	14-Oct-2022 14:00:41.0	yes
57	(7) 2MASSWJ1728114+394859	WFC3/IR	1	14-Oct-2022 14:00:42.0	yes
08	(8) LSPMJ1735+2634	WFC3/IR	1	14-Oct-2022 14:00:44.0	yes
09	(9) 2MASSWJ2140293+162518	WFC3/IR	1	14-Oct-2022 14:00:45.0	yes
10	(10) DENISJ225210.7-173013	WFC3/IR	1	14-Oct-2022 14:00:46.0	yes
11	(1) SDSSPJ042348.57-041403.5 CCDFLAT	STIS/CCD	2	14-Oct-2022 14:00:47.0	yes
12	(8) LSPMJ1735+2634 CCDFLAT	STIS/CCD	1	14-Oct-2022 14:00:48.0	yes
13	(9) 2MASSWJ2140293+162518 CCDFLAT	STIS/CCD	1	14-Oct-2022 14:00:49.0	yes
14	(10) DENISJ225210.7-173013 CCDFLAT	STIS/CCD	2	14-Oct-2022 14:00:49.0	yes

18 Total Orbits Used

## ABSTRACT

The atmospheres of low-mass stars and brown dwarfs have cool temperatures that foster abundant molecules, complex chemical and dynamical processes, and poorly understood condensate clouds. Developing accurate models of these atmospheres is critical for a wide range of problems, from interpreting the spectra of directly imaged planets to accurate modeling of the long-term evolution of the lowest-mass planetary systems. Despite increasing theoretical sophistication, evaluating the accuracy of these models has been long been limited by the lack of objects with well-determined fundamental properties.

We propose to obtain spatially-resolved optical and IR spectra for a unique sample of ultracool dwarf binaries (M7-T5 spectral types) that have high-precision dynamical masses for the individual components (30-100 Jupiter masses), derived from more than decade of orbit monitoring. Mass measurements break degeneracies between poorly known model parameters, such as those governing cloud formation and fundamental properties like surface gravity. Our HST spectra for this sample of binary systems will establish the gold standard for studies of ultracool atmospheric physics. This is the only sample of ultracool binaries that are resolvable by HST (and JWST in the future) that have precisely measured component masses.

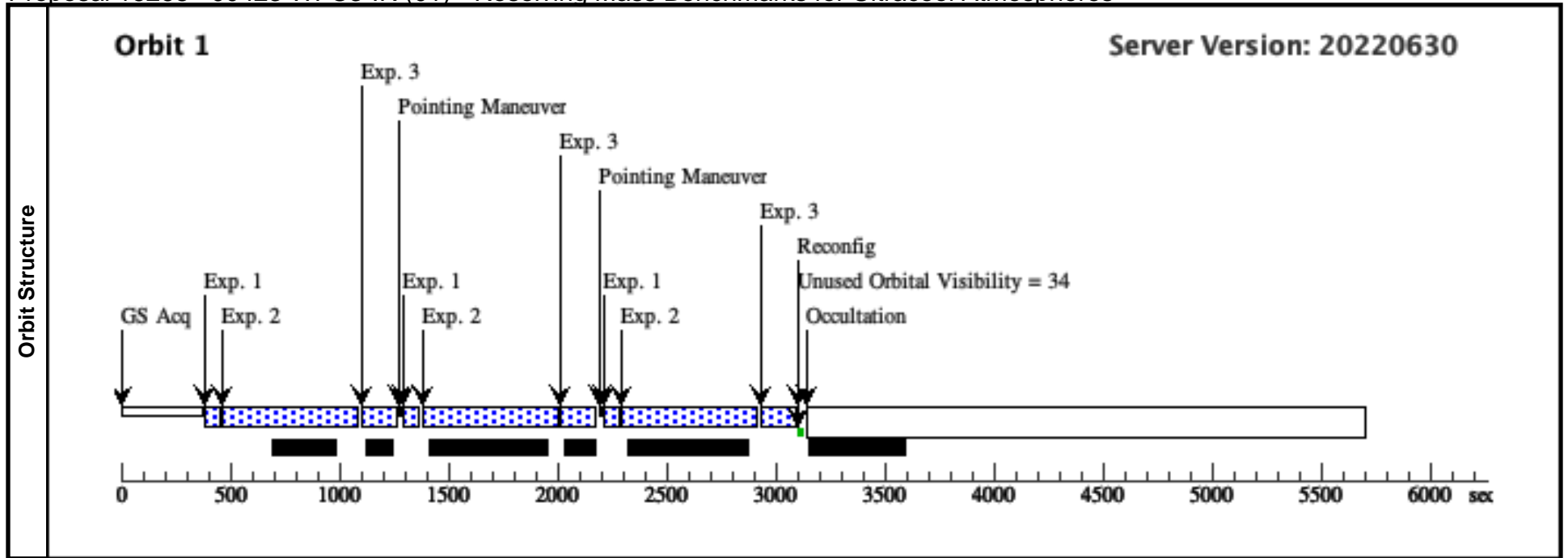
## **OBSERVING DESCRIPTION**

For each of our targets, we'll use one visit to obtain WFC3-IR slitless grism data with both G102 and G141 gratings. For a subset of our targets we will use a separate visit to obtain STIS low-resolution spectra. Separating the visits allows more flexibility in the roll angle constraints needed to make the binary components orthogonal to the dispersion axes of the two different instruments. All of our targets require only one orbit per visit, except for J0423 and J2252 that require two orbits for their STIS spectra.

Proposal 16268 - J0423 WFC3-IR (01) - Resolving Mass Benchmarks for Ultracool Atmospheres

Fri Oct 14 18:00:50 GMT 2022

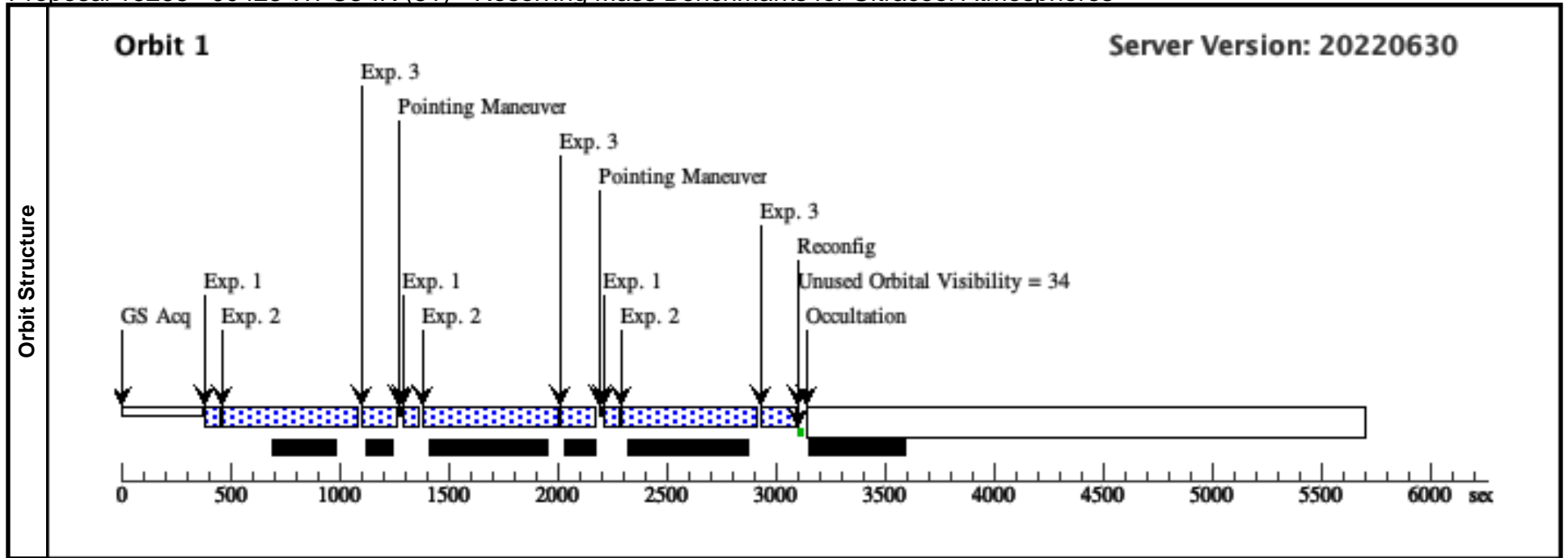
Visit	<b>Proposal 16268, J0423 WFC3-IR (01), failed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 315.3D TO 17.3 D; ORIENT 135.3D TO 197.3 D; BETWEEN 16-JUL-2021:00:00:00 AND 01-MAR-2023:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-3)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SDSSPJ042348.57-041403.5	RA: 04 23 48.2241 (65.9509338d) Dec: -04 14 2.14 (-4.23393d) Equinox: J2000	Proper Motion RA: -0.023209607213566154 sec of time/yr Proper Motion Dec: 0.070175 arcsec/yr Epoch of Position: 2015.5	V=(?) J_A = 14.9, J_B = 15.3	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		(1) SDSSPJ042348.57-041403.5	WFC3/IR, MULTIACCUM, GRISM1024	F139M	SAMP-SEQ=SPARS 5; NSAMP=9		Pattern 1, Exps 1-3 in J0423 WFC3-IR (01) (1)	42.938459 Secs (128.815 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(1) SDSSPJ042348.57-041403.5	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-3 in J0423 WFC3-IR (01) (1)	602.934229 Secs (1808.803 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
	3		(1) SDSSPJ042348.57-041403.5	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 10; NSAMP=15		Pattern 1, Exps 1-3 in J0423 WFC3-IR (01) (1)	142.945773 Secs (428.837 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	



Proposal 16268 - J0423 WFC3-IR (51) - Resolving Mass Benchmarks for Ultracool Atmospheres

Fri Oct 14 18:00:50 GMT 2022

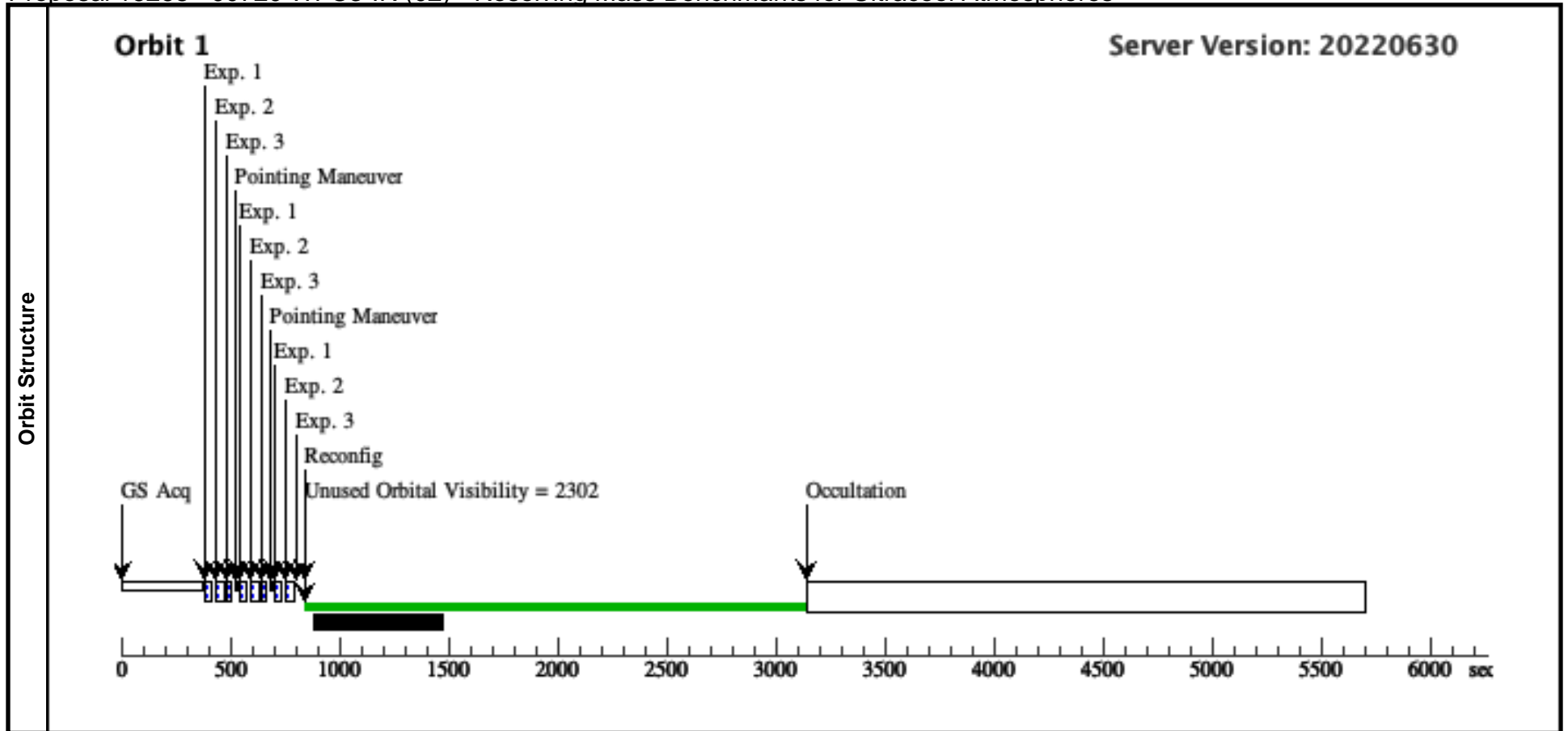
Visit	<b>Proposal 16268, J0423 WFC3-IR (51), implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 340.7D TO 19.1 D; ORIENT 160.7D TO 199.1 D; BETWEEN 16-JUL-2021:00:00:00 AND 01-MAR-2023:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-3)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SDSSPJ042348.57-041403.5	RA: 04 23 48.2241 (65.9509338d) Dec: -04 14 2.14 (-4.23393d) Equinox: J2000	Proper Motion RA: -0.023209607213566154 sec of time/yr Proper Motion Dec: 0.070175 arcsec/yr Epoch of Position: 2015.5	V=(?) J_A = 14.9, J_B = 15.3	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		(1) SDSSPJ042348.57-041403.5	WFC3/IR, MULTIACCUM, GRISM1024	F139M	SAMP-SEQ=SPARS 5; NSAMP=9		Pattern 1, Exps 1-3 in J0423 WFC3-IR (51) (1)	42.938459 Secs (128.815 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(1) SDSSPJ042348.57-041403.5	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-3 in J0423 WFC3-IR (51) (1)	602.934229 Secs (1808.803 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
	3		(1) SDSSPJ042348.57-041403.5	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 10; NSAMP=15		Pattern 1, Exps 1-3 in J0423 WFC3-IR (51) (1)	142.945773 Secs (428.837 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	



Proposal 16268 - J0720 WFC3-IR (02) - Resolving Mass Benchmarks for Ultracool Atmospheres

Fri Oct 14 18:00:50 GMT 2022

Visit	<b>Proposal 16268, J0720 WFC3-IR (02), completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 124.5D TO 245.2 D; ORIENT 304.5D TO 65.2 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-3)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	WISEJ072003.20-084651.2	RA: 07 20 3.1932 (110.0133050d) Dec: -08 46 51.85 (-8.78107d) Equinox: J2000	Proper Motion RA: -0.0038990344053074187 sec of time/yr Proper Motion Dec: -0.12549999992188532 arcsec/yr Epoch of Position: 2015.5	V=(?) J_A = 10.7, J_B = 13.3	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[M V-IV, T]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) WISEJ072003.20-084651.2	WFC3/IR, MULTIACCUM, GRISM512	F167N	SAMP-SEQ=RAPID ;	NSAMP=10	Pattern 1, Exps 1-3 in J0720 WFC3-IR (02) (1)	8.53027 Secs (25.591 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(3) WISEJ072003.20-084651.2	WFC3/IR, MULTIACCUM, GRISM512	G102	SAMP-SEQ=RAPID ;	NSAMP=15	Pattern 1, Exps 1-3 in J0720 WFC3-IR (02) (1)	12.795405 Secs (38.386 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3		(3) WISEJ072003.20-084651.2	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=RAPID ;	NSAMP=10	Pattern 1, Exps 1-3 in J0720 WFC3-IR (02) (1)	8.53027 Secs (25.591 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]

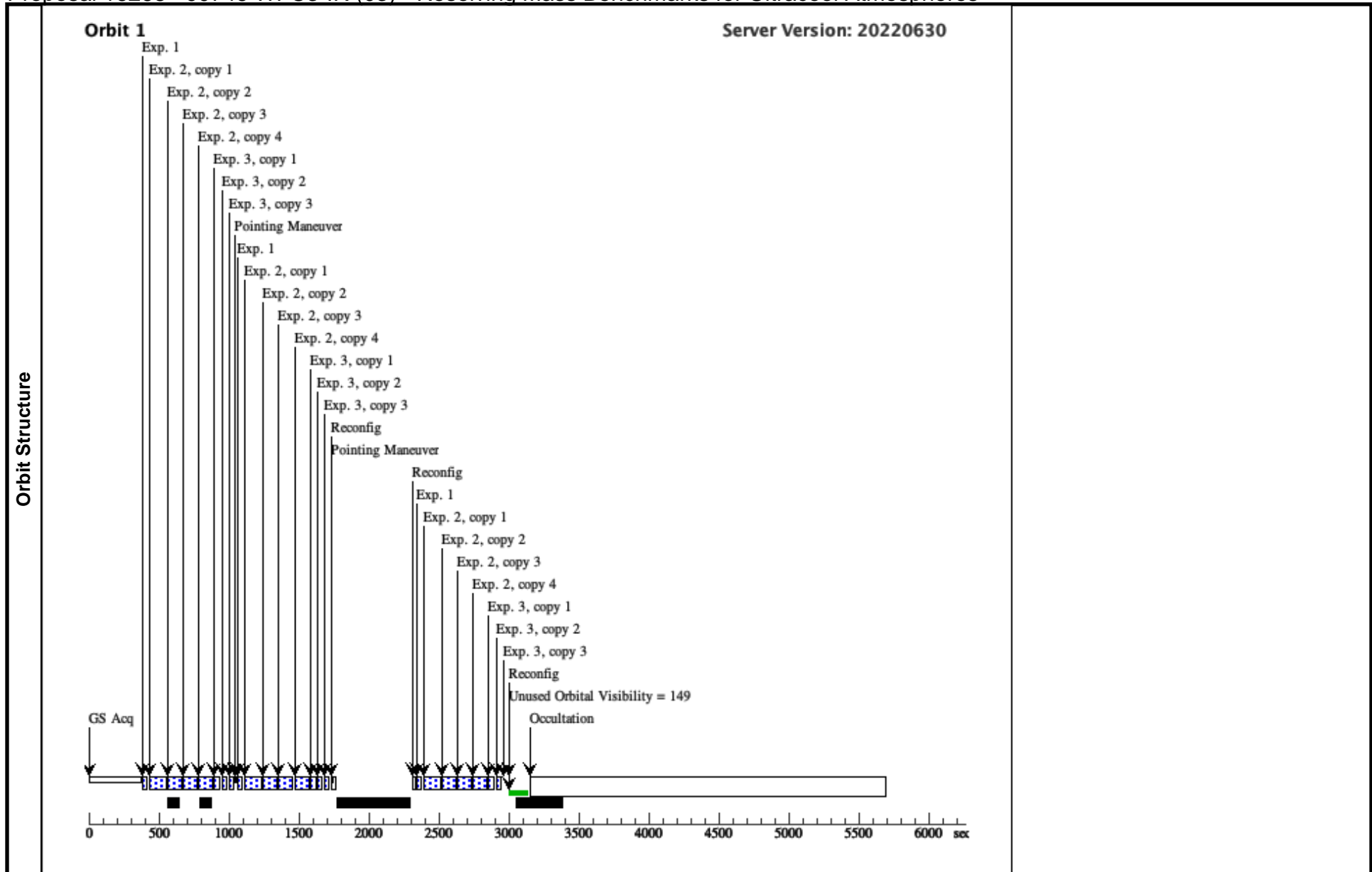


Proposal 16268 - J0746 WFC3-IR (03) - Resolving Mass Benchmarks for Ultracool Atmospheres

<b>Visit</b>	Proposal 16268, J0746 WFC3-IR (03), completed <span style="float: right;">Fri Oct 14 18:00:50 GMT 2022</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 108.8D TO 238.2 D; ORIENT 288.8D TO 58.2 D					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
(1)		Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-3)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(2)	2MASSJ0746425+20003 2	RA: 07 46 42.0885 (116.6753688d) Dec: +20 00 31.96 (20.00888d) Equinox: J2000	Proper Motion RA: -0.02625119922765422 sec of time/yr Proper Motion Dec: -0.0420000000985965 arcsec/yr Epoch of Position: 2015.5	V=17.7	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[L]						

Proposal 16268 - J0746 WFC3-IR (03) - Resolving Mass Benchmarks for Ultracool Atmospheres

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(2) 2MASSJ0746425+200032	WFC3/IR, MULTIACCUM, GRISM512	F167N	SAMP-SEQ=SPARS 5; NSAMP=4		Pattern 1, Exps 1-3 in J0746 WFC3-IR (03) (1)	9.617548 Secs (28.853 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2	(2) 2MASSJ0746425+200032	WFC3/IR, MULTIACCUM, GRISM512	G102	SAMP-SEQ=SPARS 25; NSAMP=5		Pattern 1, Exps 1-3 in J0746 WFC3-IR (03) (1)	92.538031 Secs X 4 (1110.456 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)]	[1]
	3	(2) 2MASSJ0746425+200032	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS 5; NSAMP=10		Pattern 1, Exps 1-3 in J0746 WFC3-IR (03) (1)	27.14659 Secs X 3 (244.319 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)]	[1]

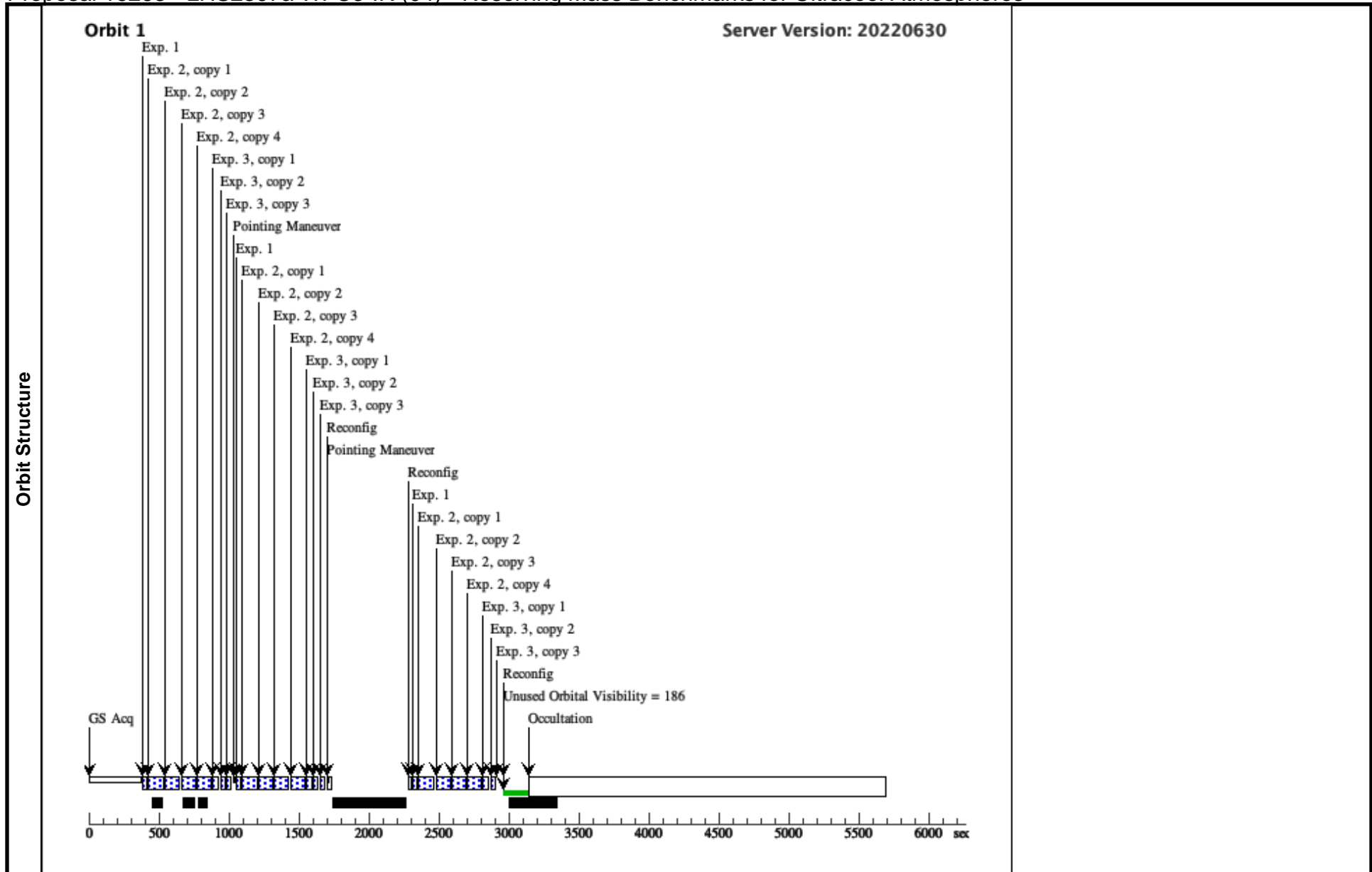


Proposal 16268 - LHS2397a WFC3-IR (04) - Resolving Mass Benchmarks for Ultracool Atmospheres

<b>Visit</b>	Proposal 16268, LHS2397a WFC3-IR (04), completed <span style="float: right;">Fri Oct 14 18:00:50 GMT 2022</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 124.4D TO 173.3 D; ORIENT 304.4D TO 353.3 D; BETWEEN 01-AUG-2021:00:00:00 AND 01-MAR-2023:00:00:00					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
(1)		Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-3)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(4)	LHS2397A	RA: 11 21 48.6708 (170.4527950d) Dec: -13 13 9.45 (-13.21929d) Equinox: J2000	Proper Motion RA: -0.032340150407655414 sec of time/yr Proper Motion Dec: -0.0462609999203778 arcsec/yr Epoch of Position: 2015.5	V=19.57	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[L, M V-IV]						

Proposal 16268 - LHS2397a WFC3-IR (04) - Resolving Mass Benchmarks for Ultracool Atmospheres

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(4) LHS2397A	WFC3/IR, MULTIACCUM, GRISM512	F139M	SAMP-SEQ=RAPID ; NSAMP=6		Pattern 1, Exps 1-3 in LHS2397a WFC3-IR (04) (1)	5.118162 Secs (15.354 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2	(4) LHS2397A	WFC3/IR, MULTIACCUM, GRISM512	G102	SAMP-SEQ=SPARS 25; NSAMP=5		Pattern 1, Exps 1-3 in LHS2397a WFC3-IR (04) (1)	92.538031 Secs X 4 (1110.456 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)]	[1]
	3	(4) LHS2397A	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS 5; NSAMP=10		Pattern 1, Exps 1-3 in LHS2397a WFC3-IR (04) (1)	27.14659 Secs X 3 (244.319 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)]	[1]



Proposal 16268 - Kelu-1 WFC3-IR (05) - Resolving Mass Benchmarks for Ultracool Atmospheres

Fri Oct 14 18:00:50 GMT 2022

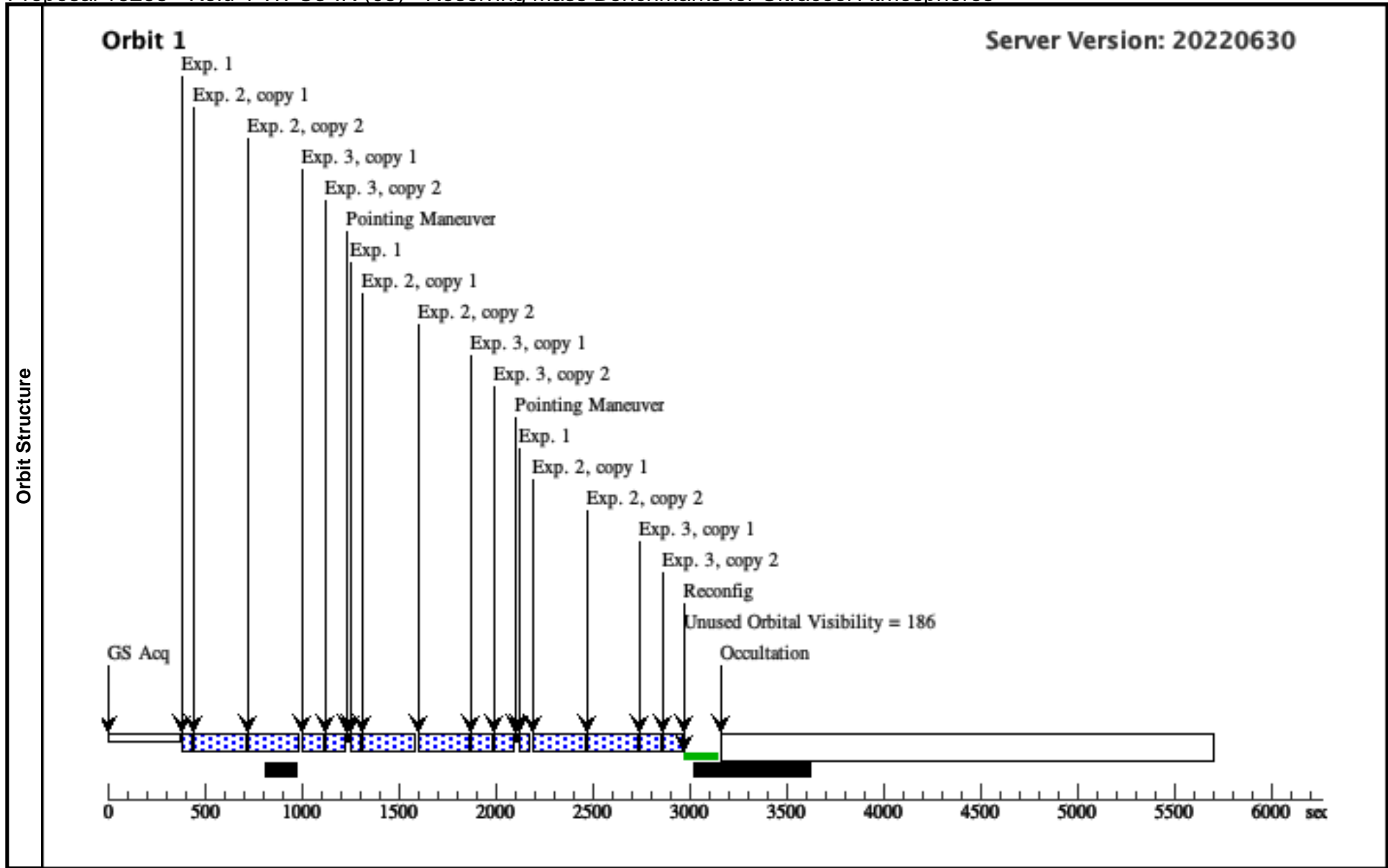
<b>Visit</b>	<b>Proposal 16268, Kelu-1 WFC3-IR (05), completed</b>		
	<b>Diagnostic Status: No Diagnostics</b>		
	Scientific Instruments: WFC3/IR		
	Special Requirements: ORIENT 334.7D TO 42.9 D; ORIENT 154.7D TO 222.9 D; BEFORE 31-MAY-2021:00:00:00		

<b>Patterns</b>	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	KELU-1	RA: 13 05 39.8143 (196.4158929d) Dec: -25 41 6.14 (-25.68504d) Equinox: J2000	Proper Motion RA: -0.02319014645587902 sec of time/yr Proper Motion Dec: -0.02002900005209085 arcsec/yr Epoch of Position: 2015.5	V=(?) J_A = 13.0, J_B = 13.5	Reference Frame: SIMBAD

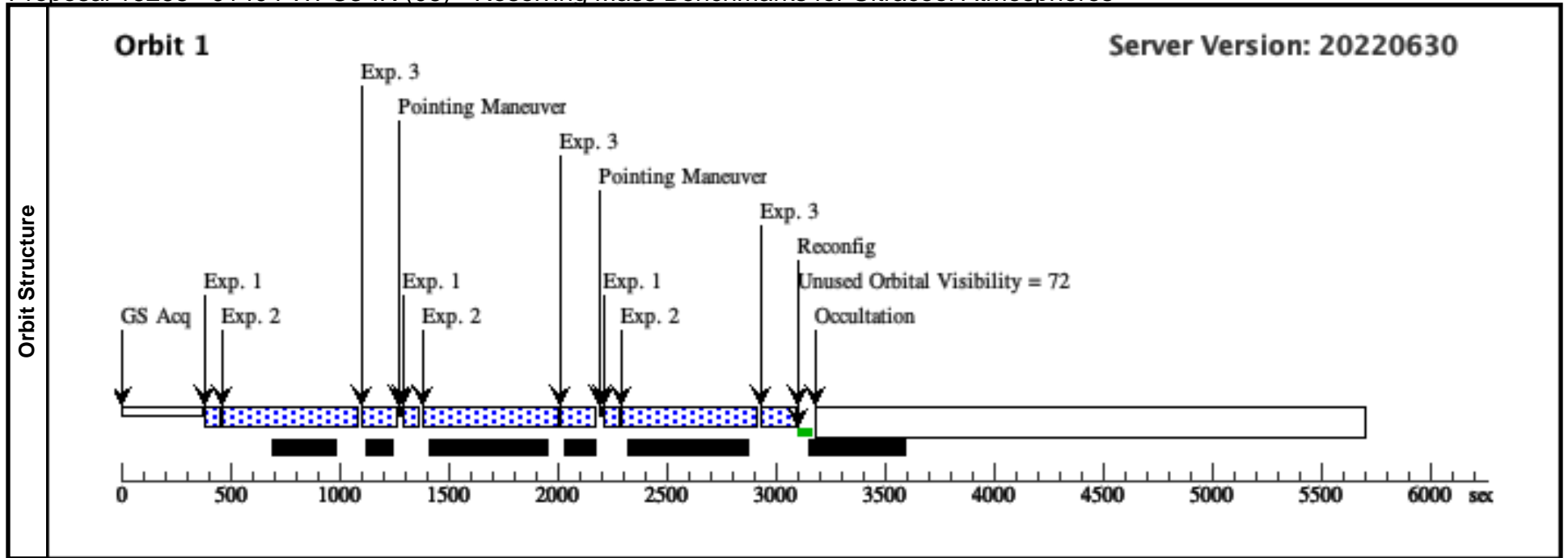
*Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.*  
 Category=STAR  
 Description=[L]

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(5) KELU-1	(5) KELU-1	WFC3/IR, MULTIACCUM, GRISM512	F139M	SAMP-SEQ=SPARS 5; NSAMP=9		Pattern 1, Exps 1-3 in Kelu-1 WFC3-IR (05) (1)	24.225083 Secs (72.675 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2	(5) KELU-1	(5) KELU-1	WFC3/IR, MULTIACCUM, GRISM512	G102	SAMP-SEQ=SPARS 25; NSAMP=12		Pattern 1, Exps 1-3 in Kelu-1 WFC3-IR (05) (1)	252.986788 Secs X 2 (1517.921 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)]	[1]
	3	(5) KELU-1	(5) KELU-1	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS 25; NSAMP=5		Pattern 1, Exps 1-3 in Kelu-1 WFC3-IR (05) (1)	92.538031 Secs X 2 (555.228 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)]	[1]



Proposal 16268 - J1404 WFC3-IR (06) - Resolving Mass Benchmarks for Ultracool Atmospheres

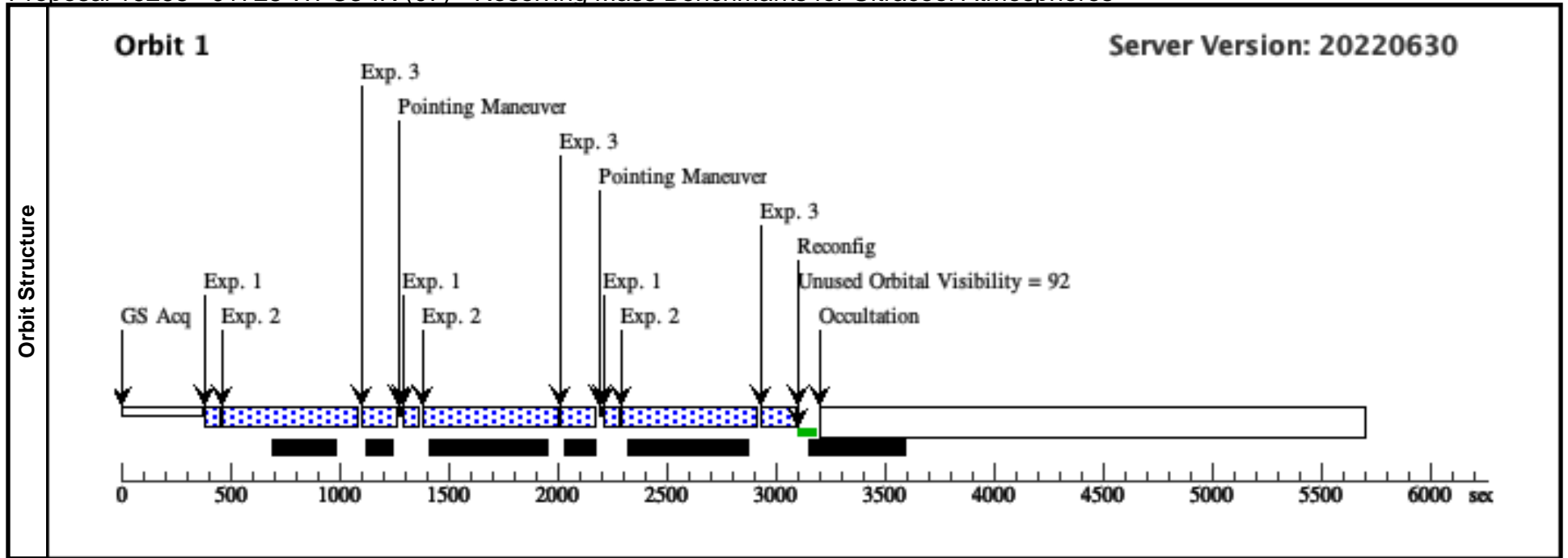
<b>Visit</b>	Proposal 16268, J1404 WFC3-IR (06), completed <span style="float: right;">Fri Oct 14 18:00:50 GMT 2022</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 92D TO 112 D; ORIENT 272D TO 292 D									
	<b>Patterns</b>	#	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>					
(1)		Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-3)					
<b>Fixed Targets</b>	#	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(6)	2MASSJ14044948-3159330	RA: 14 04 49.8920 (211.2078833d) Dec: -31 59 33.30 (-31.99258d) Equinox: J2000	Proper Motion RA: 0.026293551825274358 sec of time/yr Proper Motion Dec: -0.01549999992676021 arcsec/yr Epoch of Position: 2015.5	V=(?) J_A = 16.5, J_B = 15.9	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[L, T]										
<b>Exposures</b>	#	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(6) 2MASSJ14044948-3159330	(6) 2MASSJ14044948-3159330	WFC3/IR, MULTIACCUM, GRISM1024	F139M	SAMP-SEQ=SPARS 5; NSAMP=9		Pattern 1, Exps 1-3 in J1404 WFC3-IR (06) (1)	42.938459 Secs (128.815 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2	(6) 2MASSJ14044948-3159330	(6) 2MASSJ14044948-3159330	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-3 in J1404 WFC3-IR (06) (1)	602.934229 Secs (1808.803 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	(6) 2MASSJ14044948-3159330	(6) 2MASSJ14044948-3159330	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 10; NSAMP=15		Pattern 1, Exps 1-3 in J1404 WFC3-IR (06) (1)	142.945773 Secs (428.837 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



Proposal 16268 - J1728 WFC3-IR (07) - Resolving Mass Benchmarks for Ultracool Atmospheres

Fri Oct 14 18:00:51 GMT 2022

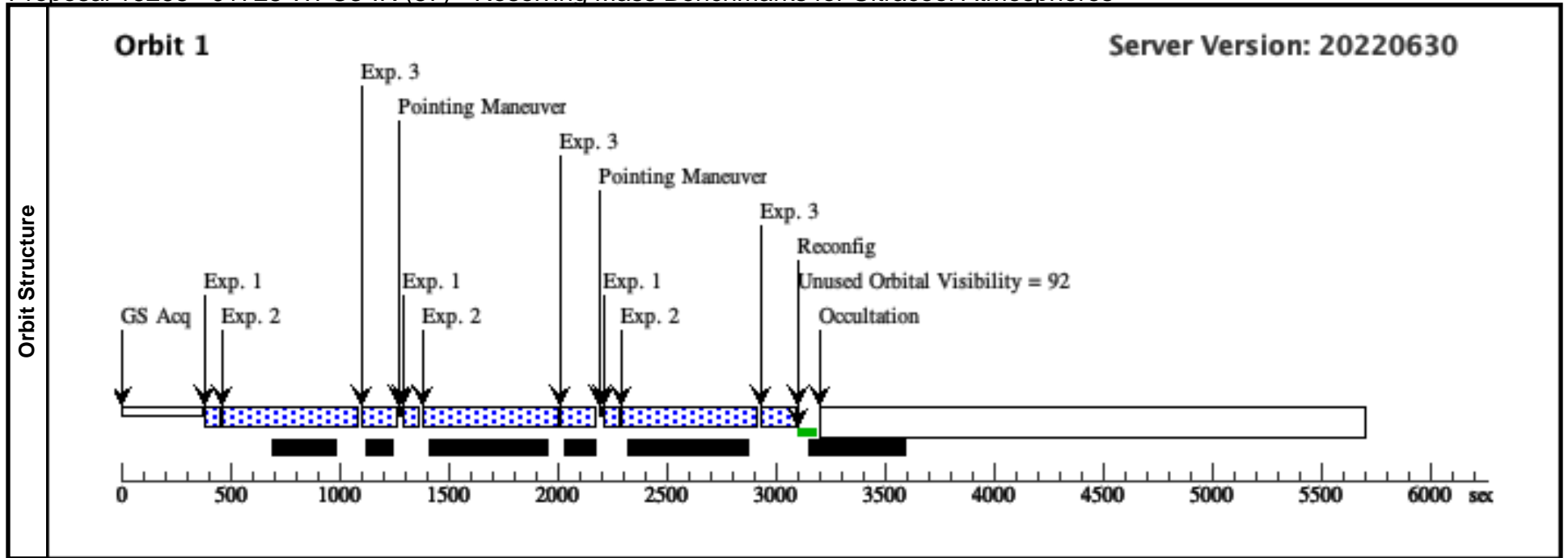
Visit	<b>Proposal 16268, J1728 WFC3-IR (07), failed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 152D TO 172 D; AFTER 19-JUL-2021:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-3)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	2MASSWJ1728114+394859	RA: 17 28 11.5510 (262.0481292d) Dec: +39 48 58.91 (39.81636d) Equinox: J2000	Proper Motion RA: 0.0032113845859473382 sec of time/yr Proper Motion Dec: -0.026000000002568413 arcsec/yr Epoch of Position: 2015.5	V=(?) J_A = 16.5, J_B = 16.8	Reference Frame: SIMBAD				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[L]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) 2MASSWJ172814+394859	WFC3/IR, MULTIACCUM, GRISM1024	F139M	SAMP-SEQ=SPARS 5; NSAMP=9		Pattern 1, Exps 1-3 in J1728 WFC3-IR (07) (1)	42.938459 Secs (128.815 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2		(7) 2MASSWJ172814+394859	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-3 in J1728 WFC3-IR (07) (1)	602.934229 Secs (1808.803 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3		(7) 2MASSWJ172814+394859	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 10; NSAMP=15		Pattern 1, Exps 1-3 in J1728 WFC3-IR (07) (1)	142.945773 Secs (428.837 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]



Proposal 16268 - J1728 WFC3-IR (57) - Resolving Mass Benchmarks for Ultracool Atmospheres

Fri Oct 14 18:00:51 GMT 2022

<b>Visit</b>	<b>Proposal 16268, J1728 WFC3-IR (57), completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 150.3D TO 204.1 D; ORIENT 330.3D TO 24.1 D; BEFORE 15-JAN-2022 <i>Comments: Exact duplicate of failed visit 07</i>									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>					
	(1)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-3)					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(7)	2MASSWJ1728114+394859	RA: 17 28 11.5510 (262.0481292d) Dec: +39 48 58.91 (39.81636d) Equinox: J2000	Proper Motion RA: 0.0032113845859473382 sec of time/yr Proper Motion Dec: -0.026000000002568413 arcsec/yr Epoch of Position: 2015.5	V=(?) J_A = 16.5, J_B = 16.8	Reference Frame: SIMBAD				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[L]									
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(7) 2MASSWJ172814+394859	(7) 2MASSWJ172814+394859	WFC3/IR, MULTIACCUM, GRISM1024	F139M	SAMP-SEQ=SPARS 5; NSAMP=9		Pattern 1, Exps 1-3 in J1728 WFC3-IR (57) (1)	42.938459 Secs (128.815 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	2	(7) 2MASSWJ172814+394859	(7) 2MASSWJ172814+394859	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-3 in J1728 WFC3-IR (57) (1)	602.934229 Secs (1808.803 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3	(7) 2MASSWJ172814+394859	(7) 2MASSWJ172814+394859	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 10; NSAMP=15		Pattern 1, Exps 1-3 in J1728 WFC3-IR (57) (1)	142.945773 Secs (428.837 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]

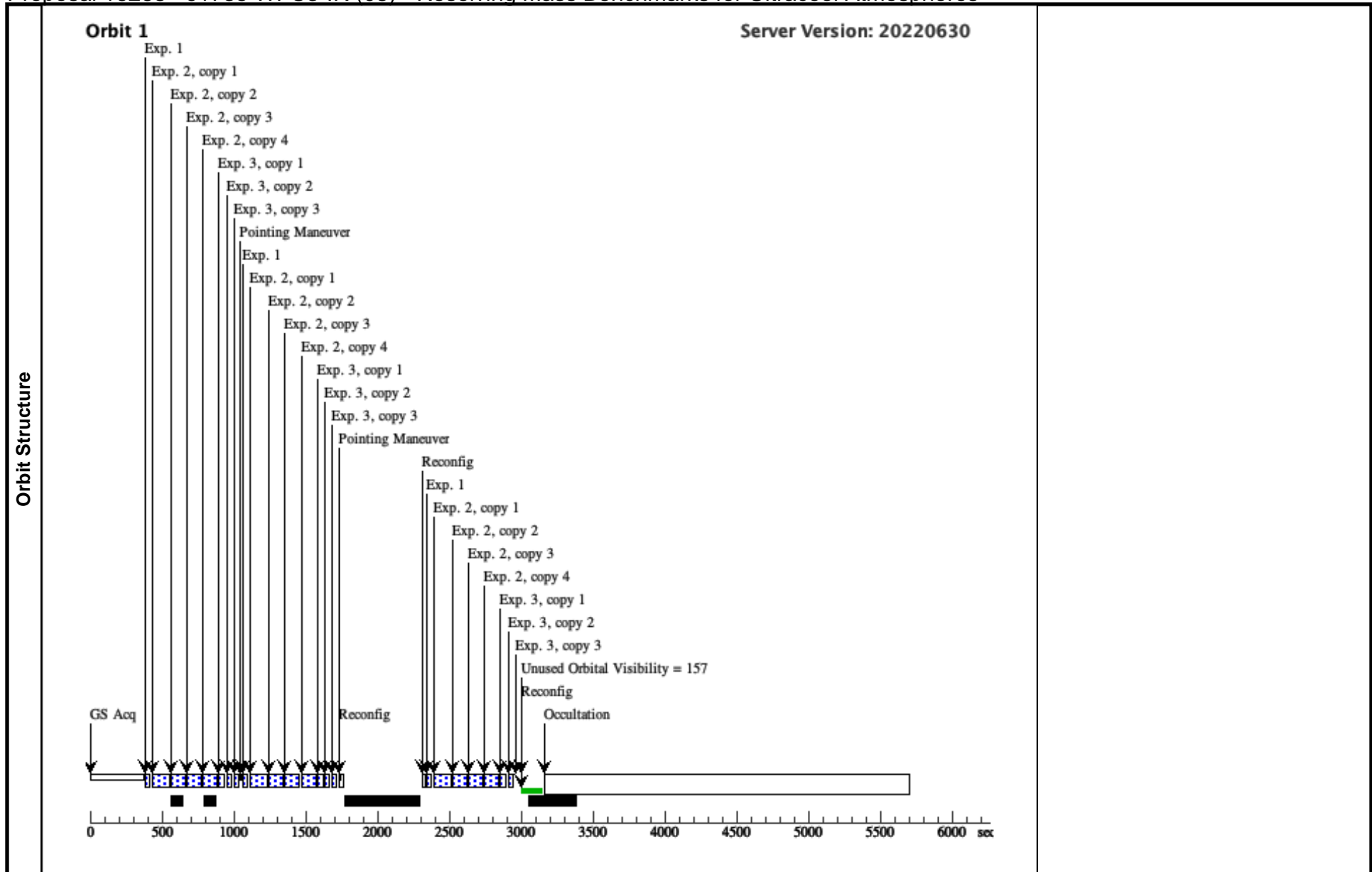


Proposal 16268 - J1735 WFC3-IR (08) - Resolving Mass Benchmarks for Ultracool Atmospheres

<b>Visit</b>	Proposal 16268, J1735 WFC3-IR (08), completed <span style="float: right;">Fri Oct 14 18:00:51 GMT 2022</span> Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 210.6D TO 338 D; ORIENT 30.6D TO 158 D					
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>	
(1)		Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-3)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(8)	LSPMJ1735+2634	RA: 17 35 13.1338 (263.8047242d) Dec: +26 34 42.58 (26.57849d) Equinox: J2000	Proper Motion RA: 0.1509 arcsec/yr Proper Motion Dec: -0.3157 arcsec/yr Parallax: 0.0648" Epoch of Position: 2015.5	V=(?) J_A = 11.7, J_B = 12.3	Reference Frame: ICRS
Comments: Category=STAR Description=[L, M V-IV]						

Proposal 16268 - J1735 WFC3-IR (08) - Resolving Mass Benchmarks for Ultracool Atmospheres

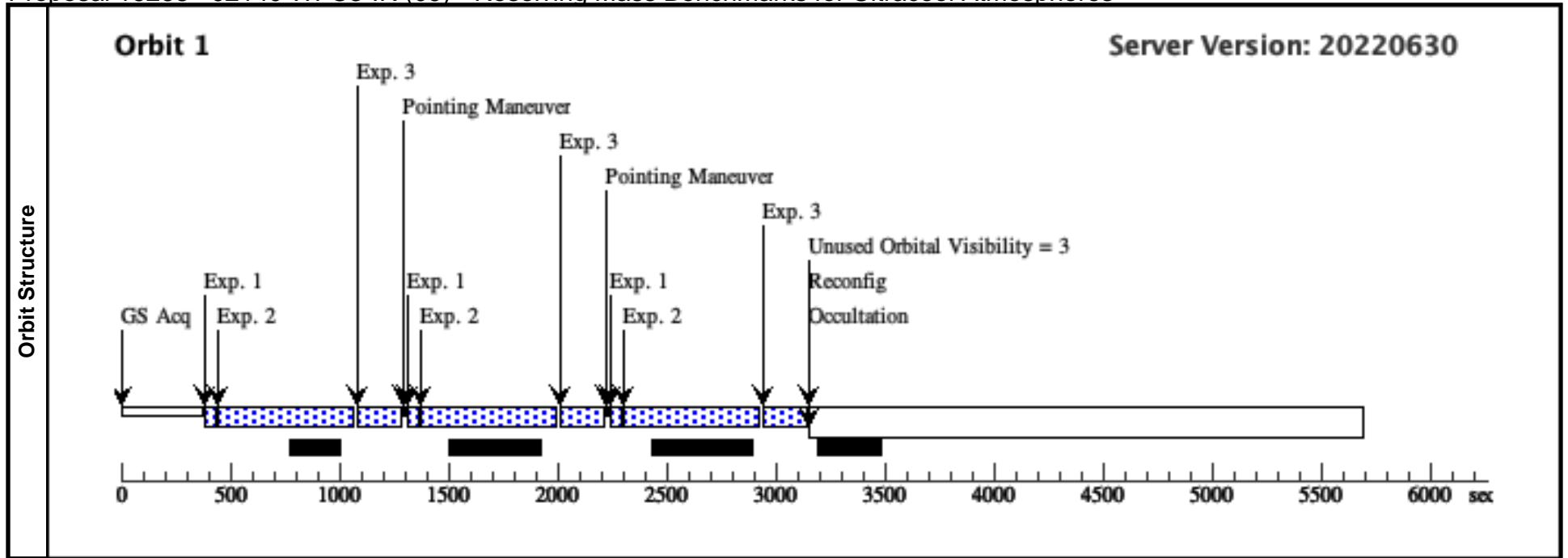
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(8) LSPMJ1735+263 4	WFC3/IR, MULTIACCUM, GRISM512	F167N	SAMP-SEQ=SPARS 5; NSAMP=4		Pattern 1, Exps 1-3 in J1735 WFC3-IR (08) (1)	9.617548 Secs (28.853 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2	(8) LSPMJ1735+263 4	WFC3/IR, MULTIACCUM, GRISM512	G102	SAMP-SEQ=SPARS 25; NSAMP=5		Pattern 1, Exps 1-3 in J1735 WFC3-IR (08) (1)	92.538031 Secs X 4 (1110.456 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 1, Copy 4)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 2, Copy 4)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 3, Copy 4)]	[1]
	3	(8) LSPMJ1735+263 4	WFC3/IR, MULTIACCUM, GRISM512	G141	SAMP-SEQ=SPARS 5; NSAMP=10		Pattern 1, Exps 1-3 in J1735 WFC3-IR (08) (1)	27.14659 Secs X 3 (244.319 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)]	[1]



Proposal 16268 - J2140 WFC3-IR (09) - Resolving Mass Benchmarks for Ultracool Atmospheres

Fri Oct 14 18:00:51 GMT 2022

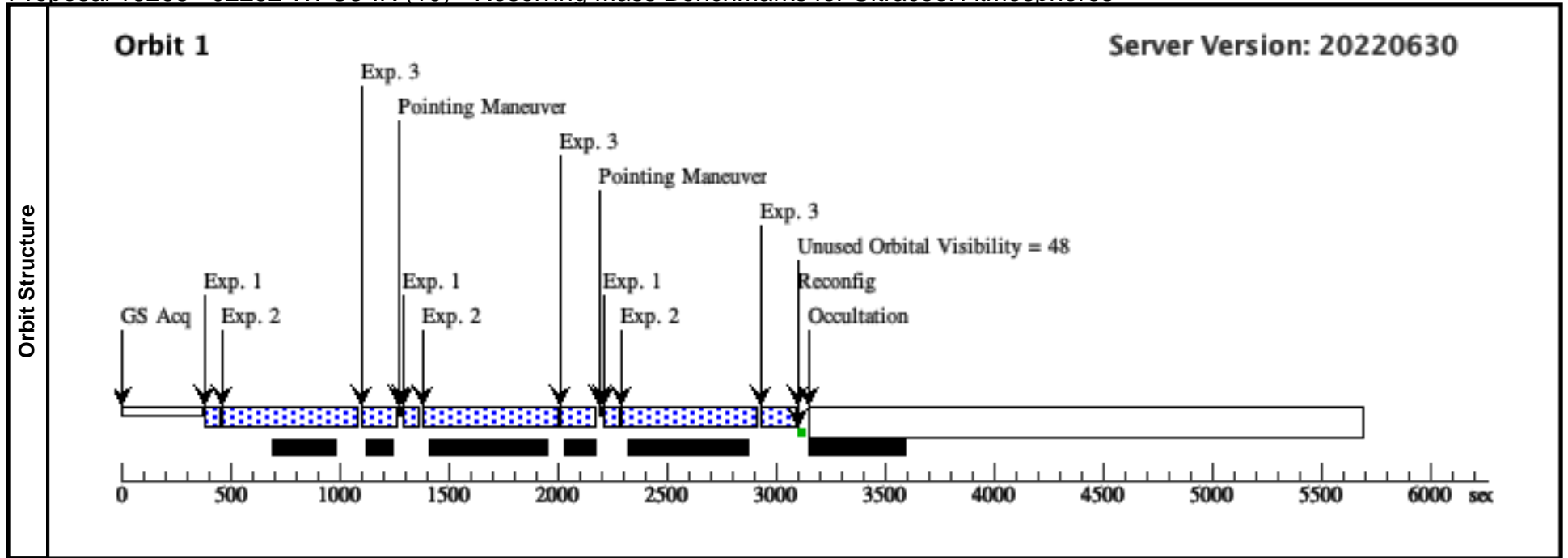
Visit	<b>Proposal 16268, J2140 WFC3-IR (09), completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 179.5D TO 277.2 D; ORIENT 359.5D TO 97.2 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-3)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	2MASSWJ2140293+162518	RA: 21 40 29.2371 (325.1218213d) Dec: +16 25 16.83 (16.42134d) Equinox: J2000	Proper Motion RA: -0.005415435754083535 sec of time/yr Proper Motion Dec: -0.08563700000649987 arcsec/yr Epoch of Position: 2015.5	V=(?) J_A = 13.3, J_B = 14.1	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[L, M V-IV]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) 2MASSWJ2140293+162518	WFC3/IR, MULTIACCUM, GRISM1024	F139M	SAMP-SEQ=SPARS 5; NSAMP=5		Pattern 1, Exps 1-3 in J2140 WFC3-IR (09) (1)	22.935375 Secs (68.806 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(9) 2MASSWJ2140293+162518	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-3 in J2140 WFC3-IR (09) (1)	602.934229 Secs (1808.803 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3		(9) 2MASSWJ2140293+162518	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 25; NSAMP=8		Pattern 1, Exps 1-3 in J2140 WFC3-IR (09) (1)	177.935896 Secs (533.808 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



Proposal 16268 - J2252 WFC3-IR (10) - Resolving Mass Benchmarks for Ultracool Atmospheres

Fri Oct 14 18:00:51 GMT 2022

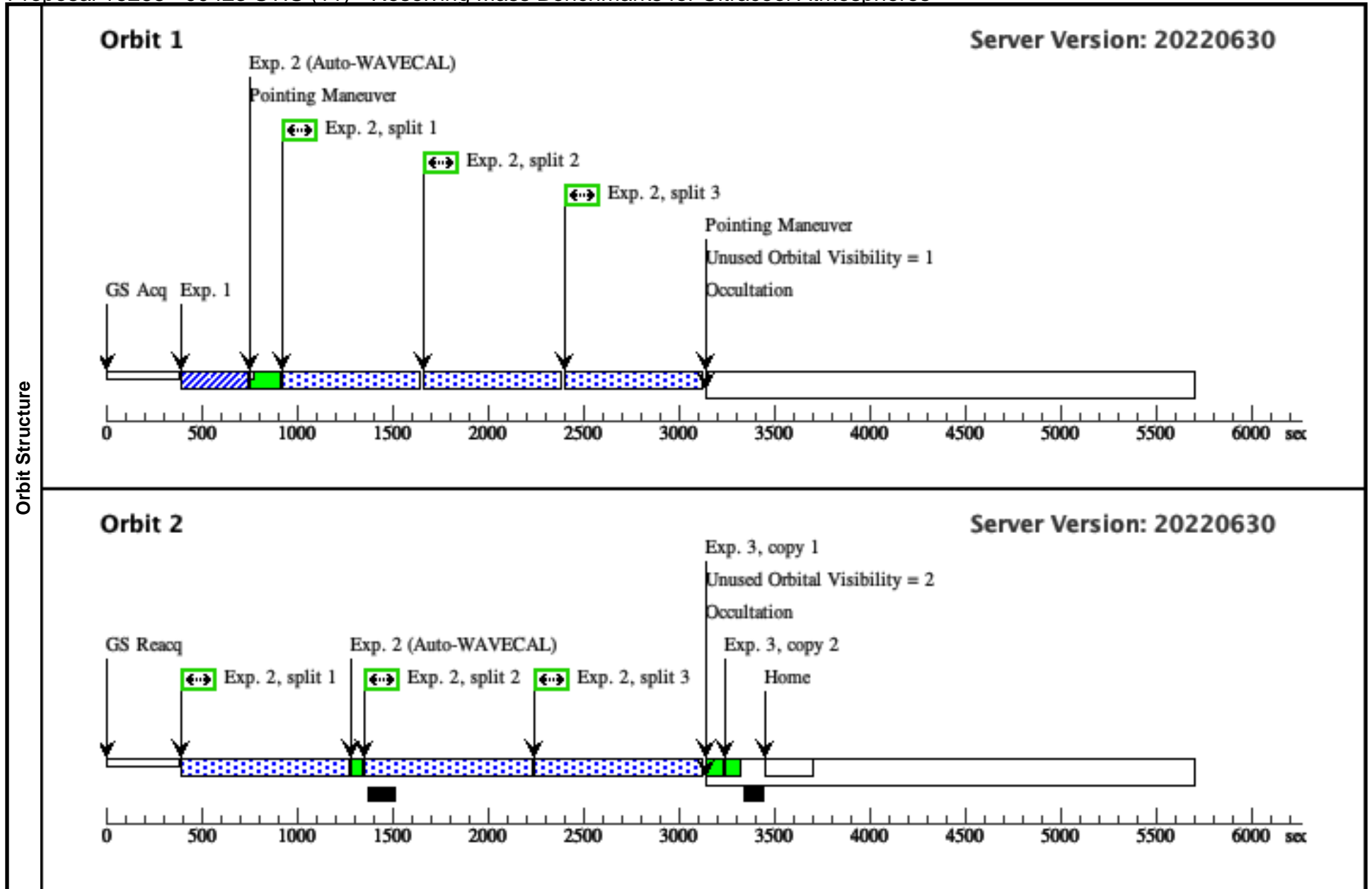
Visit	<b>Proposal 16268, J2252 WFC3-IR (10), completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: ORIENT 296.7D TO 354.5 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-3)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	DENISJ225210.7-173013	RA: 22 52 11.1919 (343.0466329d) Dec: -17 30 11.41 (-17.50317d) Equinox: J2000	Proper Motion RA: 0.02849392642534494 sec of time/yr Proper Motion Dec: 0.162589 arcsec/yr Epoch of Position: 2015.5	V=(?) J_A = 14.6, J_B = 15.4	Reference Frame: ICRS				
	<i>Comments:</i> Category=STAR Description=[L, T]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(10) DENISJ225210.7-173013	WFC3/IR, MULTIACCUM, GRISM1024	F139M	SAMP-SEQ=SPARS 5; NSAMP=9		Pattern 1, Exps 1-3 in J2252 WFC3-IR (10) (1)	42.938459 Secs (128.815 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(10) DENISJ225210.7-173013	WFC3/IR, MULTIACCUM, GRISM1024	G102	SAMP-SEQ=SPARS 100; NSAMP=7		Pattern 1, Exps 1-3 in J2252 WFC3-IR (10) (1)	602.934229 Secs (1808.803 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
	3		(10) DENISJ225210.7-173013	WFC3/IR, MULTIACCUM, GRISM1024	G141	SAMP-SEQ=SPARS 10; NSAMP=15		Pattern 1, Exps 1-3 in J2252 WFC3-IR (10) (1)	142.945773 Secs (428.837 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	



Proposal 16268 - J0423 STIS (11) - Resolving Mass Benchmarks for Ultracool Atmospheres

Fri Oct 14 18:00:51 GMT 2022

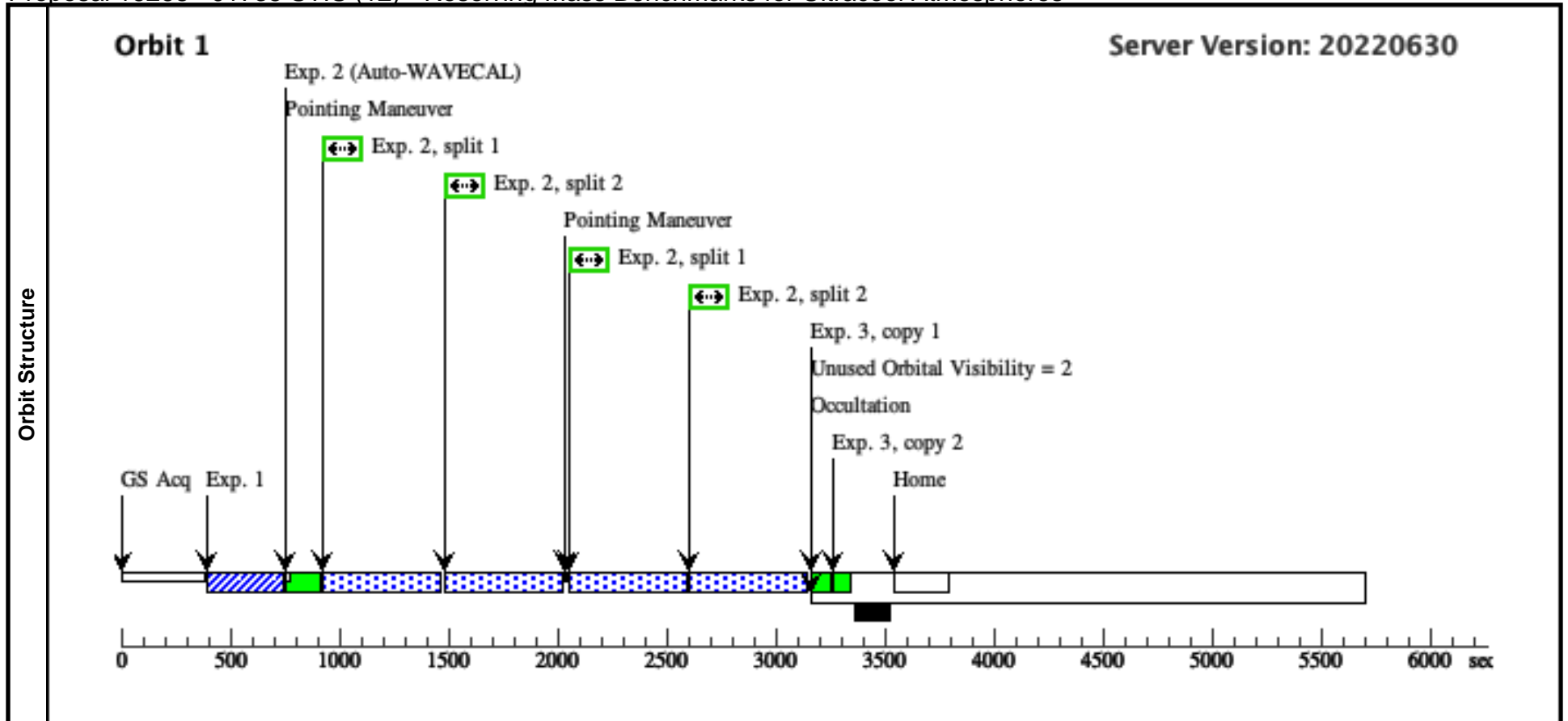
Visit	<b>Proposal 16268, J0423 STIS (11), completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/CCD Special Requirements: ORIENT 240.3D TO 264.5 D; ORIENT 60.3D TO 84.5 D; BETWEEN 01-JUL-2021:00:00:00 AND 31-MAR-2023:00:00:00										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(2)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG							(2)
		Purpose=DITHER	Pattern Orientation=90.0								
		Number Of Points=2	Angle Between Sides=								
		Point Spacing=0.5078	Center Pattern=false								
		Line Spacing=									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	SDSSPJ042348.57-041403.5	RA: 04 23 48.2241 (65.9509338d) Dec: -04 14 2.14 (-4.23393d) Equinox: J2000	Proper Motion RA: -0.023209607213566154 sec of time/yr	Proper Motion Dec: 0.070175 arcsec/yr	Epoch of Position: 2015.5	V=(?) J_A = 14.9, J_B = 15.3	Reference Frame: ICRS			
	<i>Comments:</i> Category=STAR Description=[BROWN DWARF]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	ACQ (STIS.ta.151 5427)	(1) SDSSPJ042348.5 7-041403.5	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT				30 Secs (30 Secs)	
									[==>]	[1]	
	2	SPEC	(1) SDSSPJ042348.5 7-041403.5	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=3		Pattern 2, Exps 2-2 in J0423 STIS (11) (2)	500 Secs (4605.6 Secs)		
									[==>691.6 Secs (Pattern 1, Split 1)]		
									[==>691.6 Secs (Pattern 1, Split 2)]	[1]	
									[==>691.6 Secs (Pattern 1, Split 3)]		
									[==>843.6 Secs (Pattern 2, Split 1)]		
									[==>843.6 Secs (Pattern 2, Split 2)]	[2]	
									[==>843.6 Secs (Pattern 2, Split 3)]		
	3	FLATS	CCDFLAT	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				[==>(Copy 1)]		
									[==>(Copy 2)]	[2]	



Proposal 16268 - J1735 STIS (12) - Resolving Mass Benchmarks for Ultracool Atmospheres

Fri Oct 14 18:00:51 GMT 2022

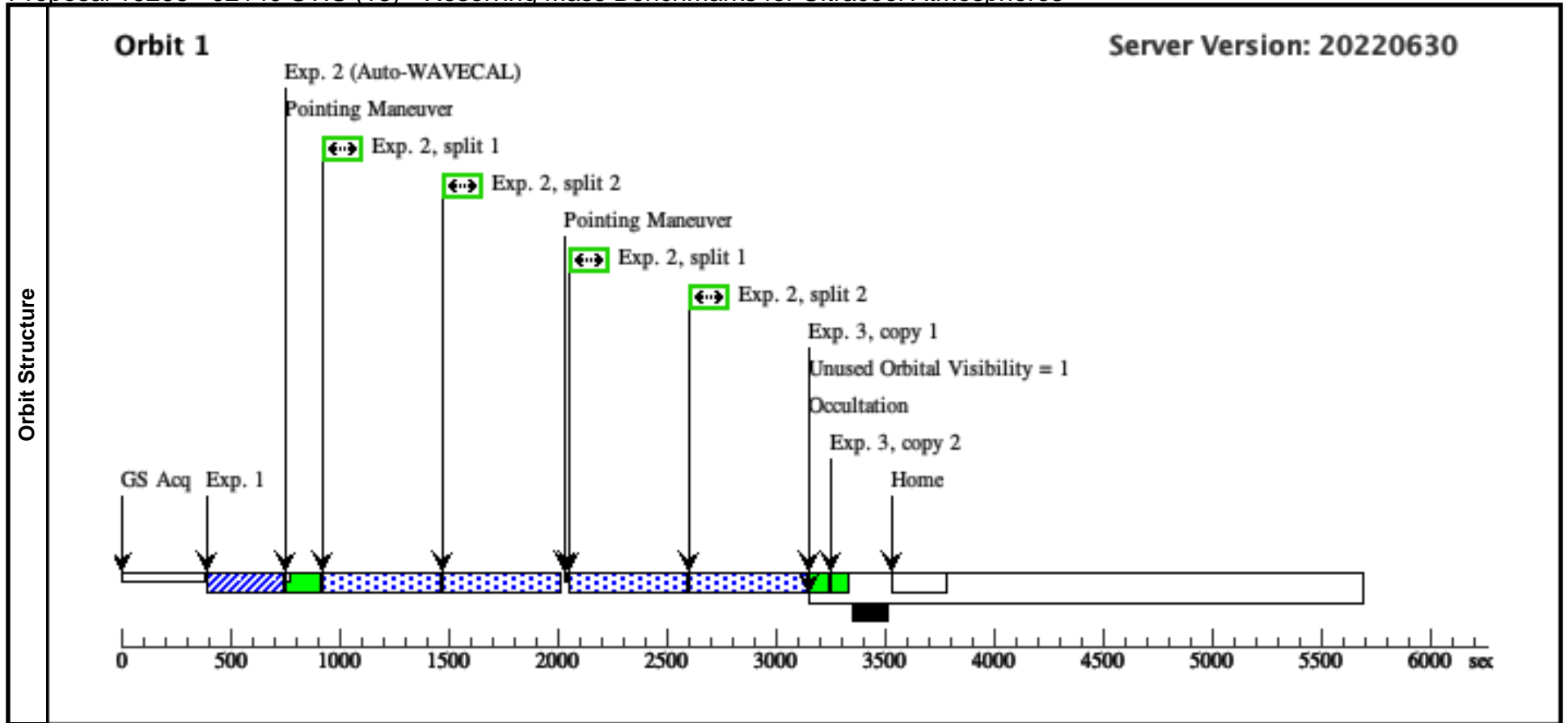
<b>Visit</b>	<b>Proposal 16268, J1735 STIS (12), completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/CCD Special Requirements: ORIENT 176.9D TO 191.5 D; ORIENT 356.9D TO 11.5 D									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>
(2)		Pattern Type=STIS-ALONG-SLIT		Coordinate Frame=POS-TARG					(2)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>		<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>		<b>Miscellaneous</b>
	(8)	LSPMJ1735+2634		RA: 17 35 13.1338 (263.8047242d) Dec: +26 34 42.58 (26.57849d) Equinox: J2000		Proper Motion RA: 0.1509 arcsec/yr Proper Motion Dec: -0.3157 arcsec/yr Parallax: 0.0648" Epoch of Position: 2015.5		V=(?) J_A = 11.7, J_B = 12.3		Reference Frame: ICRS
Comments: Category=STAR Description=[L, M V-IV]										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	ACQ (STIS.ta.151 4 5429)	(8) LSPMJ1735+263 4	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT		Sequence 1-3 Non-Int in J1735 STIS (12)	30 Secs (30 Secs) [==>]	[1]
	2	SPEC	(8) LSPMJ1735+263 4	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=2		Sequence 1-3 Non-Int in J1735 STIS (12) Pattern 2, Exps 2-2 in Sequence 1-3 Non-Int in J1735 STIS (1 2) (2)	1 Secs (2026 Secs) [==>506.5 Secs (Pattern 1, Split 1)] [==>506.5 Secs (Pattern 1, Split 2)] [==>506.5 Secs (Pattern 2, Split 1)] [==>506.5 Secs (Pattern 2, Split 2)]	[1]
	3	FLATS	CCDFLAT	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A			Sequence 1-3 Non-Int in J1735 STIS (12)	[==>(Copy 1)] [==>(Copy 2)]	[1]



Proposal 16268 - J2140 STIS (13) - Resolving Mass Benchmarks for Ultracool Atmospheres

Fri Oct 14 18:00:51 GMT 2022

<b>Visit</b>	<b>Proposal 16268, J2140 STIS (13), completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/CCD Special Requirements: ORIENT 126.2D TO 148.8 D; ORIENT 306.2D TO 328.8 D									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>
(2)		Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=2 Point Spacing=0.5078 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false					(2)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>		<b>Miscellaneous</b>	
	(9)	2MASSWJ2140293+162518	RA: 21 40 29.2371 (325.1218213d) Dec: +16 25 16.83 (16.42134d) Equinox: J2000		Proper Motion RA: -0.005415435754083535 sec of time/yr Proper Motion Dec: -0.08563700000649987 arcsec/yr Epoch of Position: 2015.5		V=(?) J_A = 13.3, J_B = 14.1		Reference Frame: ICRS	
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[L, M V-IV]										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	ACQ (STIS.ta.1515428)	(9) 2MASSWJ2140293+162518	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT		Sequence 1-3 Non-Int in J2140 STIS (13)	30 Secs (30 Secs) [==>]	[1]
	2	SPEC	(9) 2MASSWJ2140293+162518	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=2		Sequence 1-3 Non-Int in J2140 STIS (13) Pattern 2, Exps 2-2 in Sequence 1-3 Non-Int in J2140 STIS (13) (2)	1 Secs (2018 Secs) [==>504.5 Secs (Pattern 1, Split 1)] [==>504.5 Secs (Pattern 1, Split 2)] [==>504.5 Secs (Pattern 2, Split 1)] [==>504.5 Secs (Pattern 2, Split 2)]	[1]
	3	FLATS	CCDFLAT	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A			Sequence 1-3 Non-Int in J2140 STIS (13)	[==>(Copy 1)] [==>(Copy 2)]	[1]



Proposal 16268 - J2252 STIS (14) - Resolving Mass Benchmarks for Ultracool Atmospheres

Fri Oct 14 18:00:51 GMT 2022

Visit	<b>Proposal 16268, J2252 STIS (14), completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/CCD Special Requirements: ORIENT 42D TO 69.6 D; ORIENT 222D TO 249.9 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(2)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG						
		Purpose=DITHER	Pattern Orientation=90.0							
		Number Of Points=2	Angle Between Sides=							
		Point Spacing=0.5078	Center Pattern=false							
		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	DENISJ225210.7-173013	RA: 22 52 11.1919 (343.0466329d) Dec: -17 30 11.41 (-17.50317d) Equinox: J2000	Proper Motion RA: 0.02849392642534494 sec of time/yr Proper Motion Dec: 0.162589 arcsec/yr Epoch of Position: 2015.5	V=(?) J_A = 14.6, J_B = 15.4	Reference Frame: ICRS				
	<i>Comments:</i> Category=STAR Description=[L, T]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.151 5427)	(10) DENISJ225210.7-173013	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			30 Secs (30 Secs) [==>]	[1]
	2	SPEC	(10) DENISJ225210.7-173013	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=3		Pattern 2, Exps 2-2 in J2252 STIS (14) (2)	1 Secs (4633.8 Secs) [==>696.3 Secs (Pattern 1, Split 1)] [==>696.3 Secs (Pattern 1, Split 2)] [==>696.3 Secs (Pattern 1, Split 3)]	[1]
									[==>848.3 Secs (Pattern 2, Split 1)] [==>848.3 Secs (Pattern 2, Split 2)] [==>848.3 Secs (Pattern 2, Split 3)]	[2]
	3	FLATS	CCDFLAT	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				[==>(Copy 1)] [==>(Copy 2)]	[2]

