



14052 - A Spitzer/HST Case Study of Weather on a Y Dwarf

Cycle: 22, 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) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:02:37.0	yes
02	(1) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:02:42.0	yes
03	(1) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:02:46.0	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>
04	(1) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:02:50.0	yes
05	(1) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:02:54.0	yes
06	(1) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:02:59.0	yes
07	(1) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:03:01.0	yes
08	(1) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:03:03.0	yes
09	(1) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:03:04.0	yes
10	(1) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:03:08.0	yes
11	(1) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:03:12.0	yes
12	(1) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:03:16.0	yes
13	(1) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:03:19.0	yes
14	(1) WISE1405+5534	WFC3/IR	1	14-Mar-2015 21:03:23.0	yes

14 Total Orbits Used

ABSTRACT

Condensate clouds play a critical role in shaping the emergent spectra of both brown dwarfs and gas giant planets. Our understanding of the vertical structure and horizontal distribution of these clouds remains limited, however, because we typically lack the multi-epoch observations required to study the disk-integrated emergent spectrum modulated by the brown dwarf's rotation. Variability studies can be used to advance our understanding of the three dimensional structure of brown dwarf atmospheres but simultaneous, multi-wavelength observations with broad spectral coverage are required. Noticeably absent from all variability studies of brown dwarfs to date are the Y dwarfs which are the coolest brown dwarfs currently known ($T_{\text{eff}} < 450$ K). Our Cycle 9 Spitzer data no near-infrared variability has been detected. We therefore propose an HST/Spitzer case study of the Y0.5 dwarf WISE 1405+5534. We will obtain simultaneous F105W, F125W, [3.6] and [4.5] photometry of this dwarf and compare the light curves to predictions of partly cloudy model atmospheres. These observations will not only provide critical information for dynamical models of brown dwarf atmospheres but also directly inform the interpretation and characterization of cool gas giant exoplanets detected with the next generation of high-contrast imagers like the Gemini Planet Imager (GPI) and the SPHERE instrument for the VLT. program has shown that Y dwarfs do indeed show variability in the mid-infrared, but to

OBSERVING DESCRIPTION

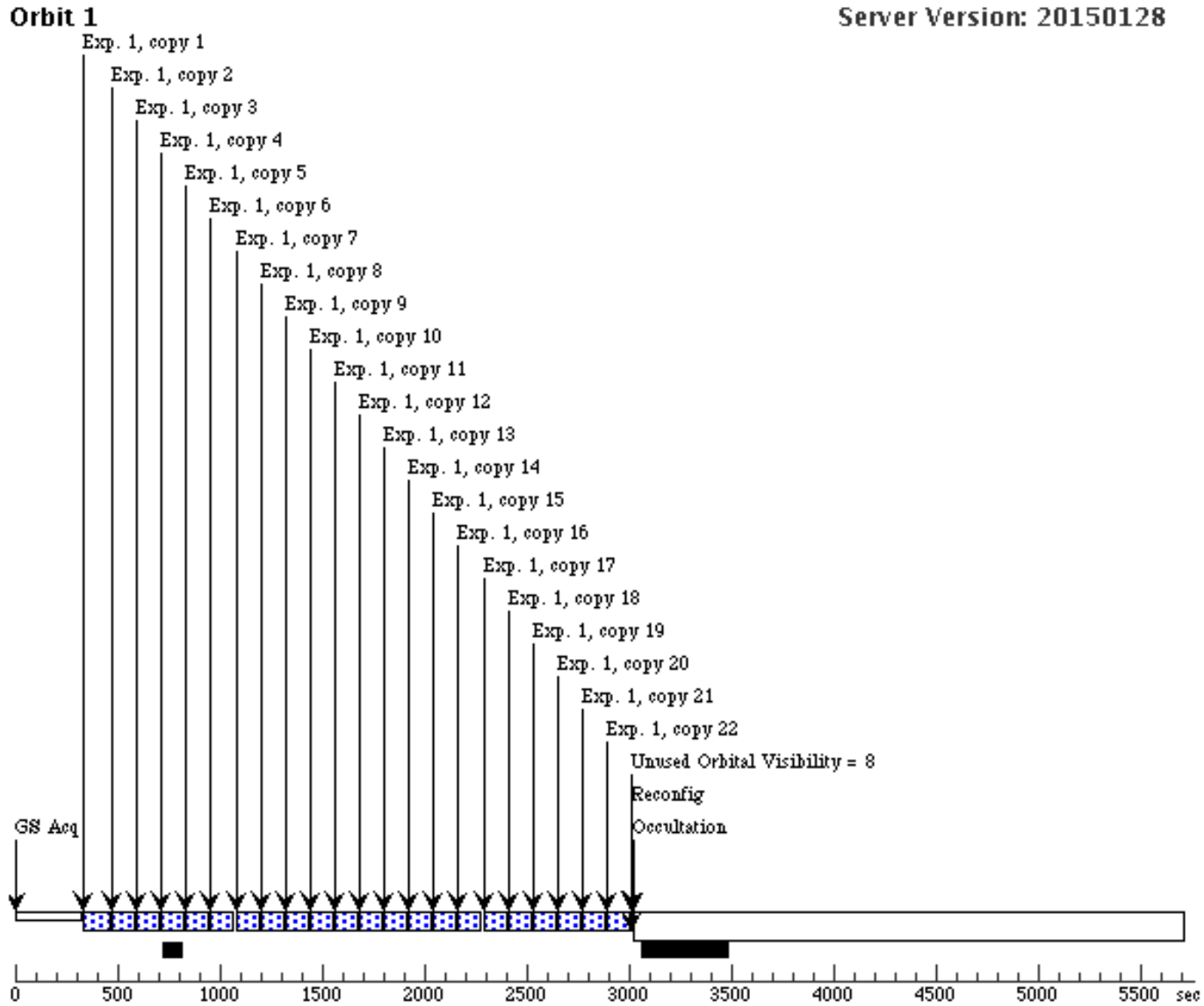
Since we are searching for near-infrared variability in a Y dwarf for the first time, we do not know a priori what level of variability to expect. Based on our HST Cycle 20 observations of WISE 1405+5534 we can achieve a photometric precision of 6/3% in a single F105W/F125W 100 sec exposure (this is consistent with the WFC3 ETC). Binning the data by 5 minutes gives precisions of 3.5/1.7% which is much better than we achieved from the ground with Gemini North on the brighter Y dwarf WISE 1738+2732. To match the Spitzer observations, we require 20 hours or 14 consecutive orbits split equally between F105W and F125W. WISE 1405+5534 can only be observed for ~60 min of each orbit and so we will obtain roughly thirty frames per orbit. We will also read subarrays of the detector in order to minimize the data volume.

Proposal 14052 - F105W (01) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:25 GMT 2015

Visit	Proposal 14052, F105W (01), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1)	WISE1405+5534	WFC3/IR, MULTIACCUM, IRSUB256	F105W	NSAMP=15; SAMP-SEQ=SPAR S10				103.128633 Secs X 22 (2268.83 Secs)
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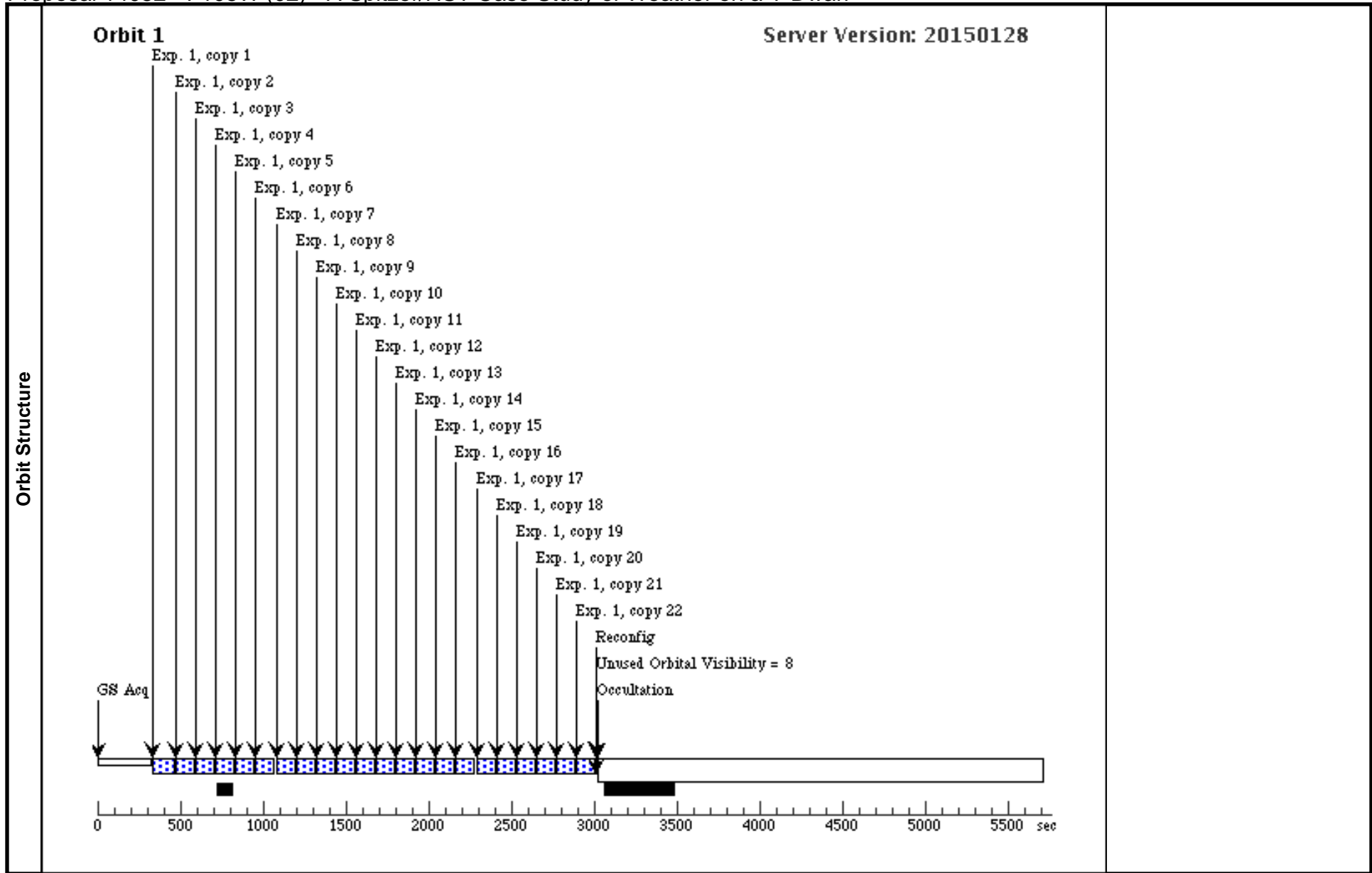
Orbit Structure



Proposal 14052 - F105W (02) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:25 GMT 2015

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	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1)	WISE1405+5534	WFC3/IR, MULTIACCUM, IRSUB256	F105W	NSAMP=15; SAMP-SEQ=SPAR S10				103.128633 Secs X 22 (2268.83 Secs)
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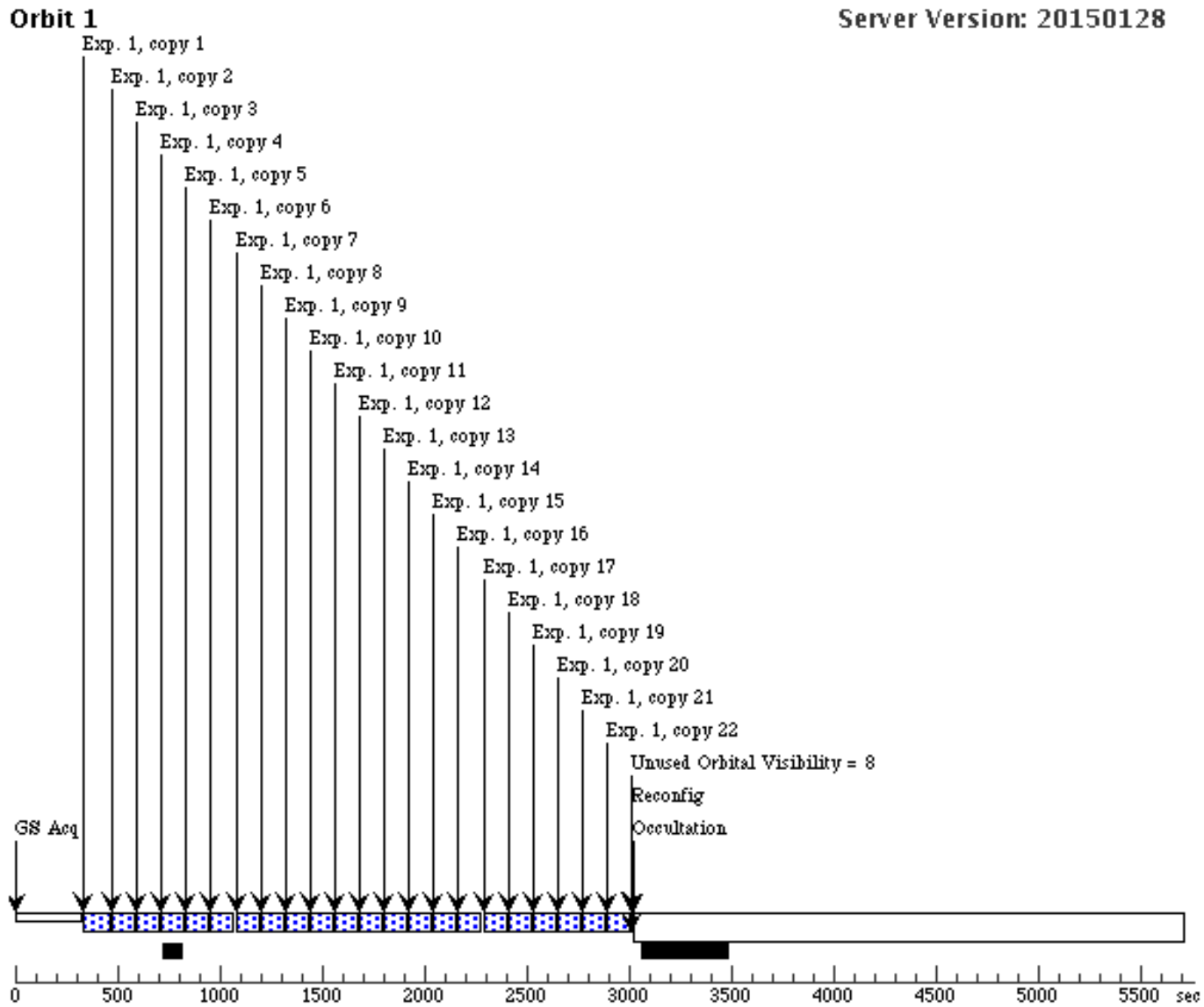


Proposal 14052 - F105W (03) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:25 GMT 2015

Visit	Proposal 14052, F105W (03), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) WISE1405+5534		WFC3/IR, MULTIACCUM, IRSUB256	F105W	NSAMP=15; SAMP-SEQ=SPAR S10			103.128633 Secs X 22 (2268.83 Secs)	[1]
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Orbit Structure

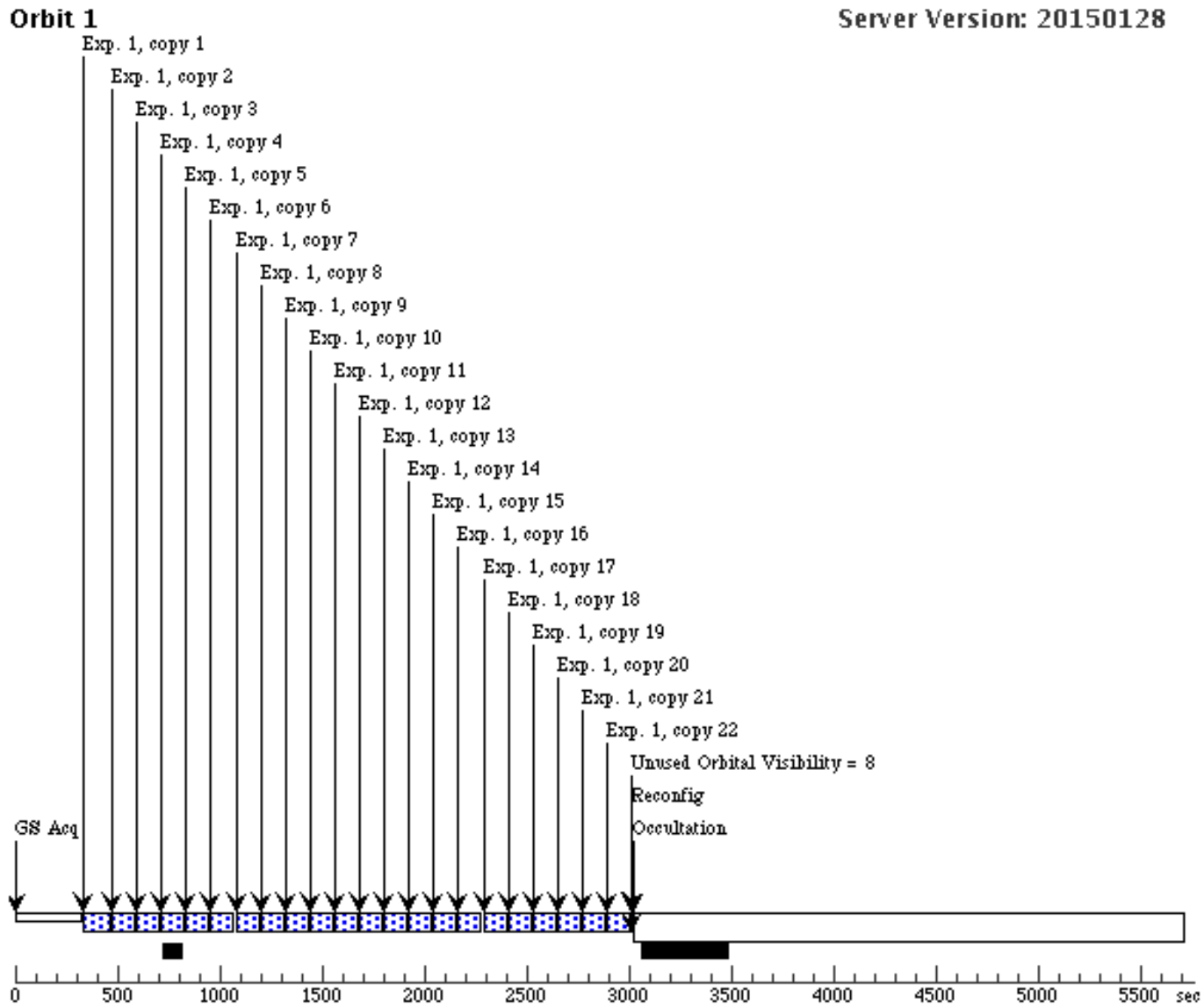


Proposal 14052 - F105W (04) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:25 GMT 2015

Visit	Proposal 14052, F105W (04), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) WISE1405+5534	WISE1405+5534	WFC3/IR, MULTIACCUM, IRSUB256	F105W	NSAMP=15; SAMP-SEQ=SPAR S10				103.128633 Secs X 22 (2268.83 Secs)
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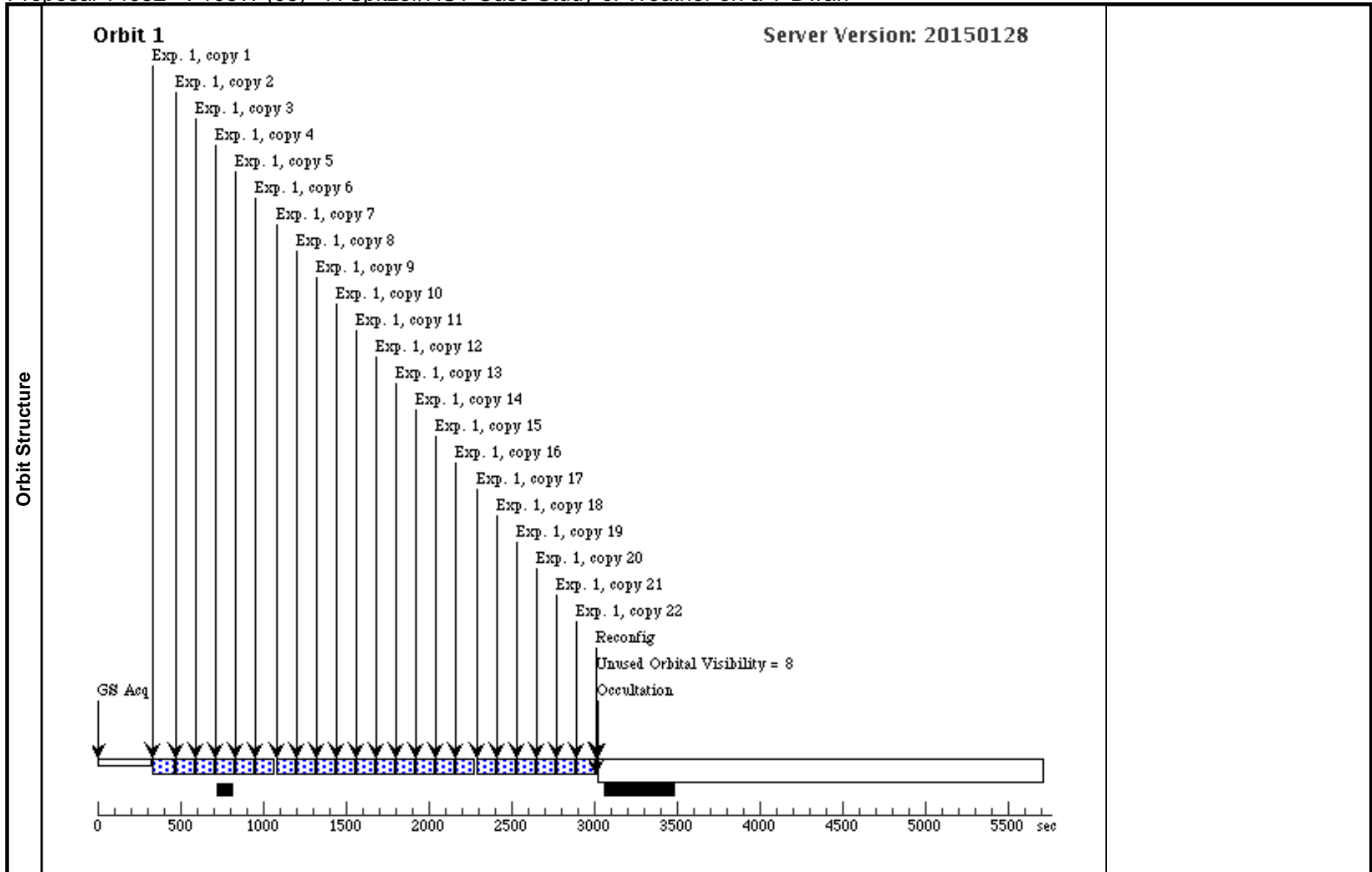
Orbit Structure



Proposal 14052 - F105W (05) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:25 GMT 2015

Visit	Proposal 14052, F105W (05), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1)	WISE1405+5534	WFC3/IR, MULTIACCUM, IRSUB256	F105W	NSAMP=15; SAMP-SEQ=SPAR S10				103.128633 Secs X 22 (2268.83 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)]

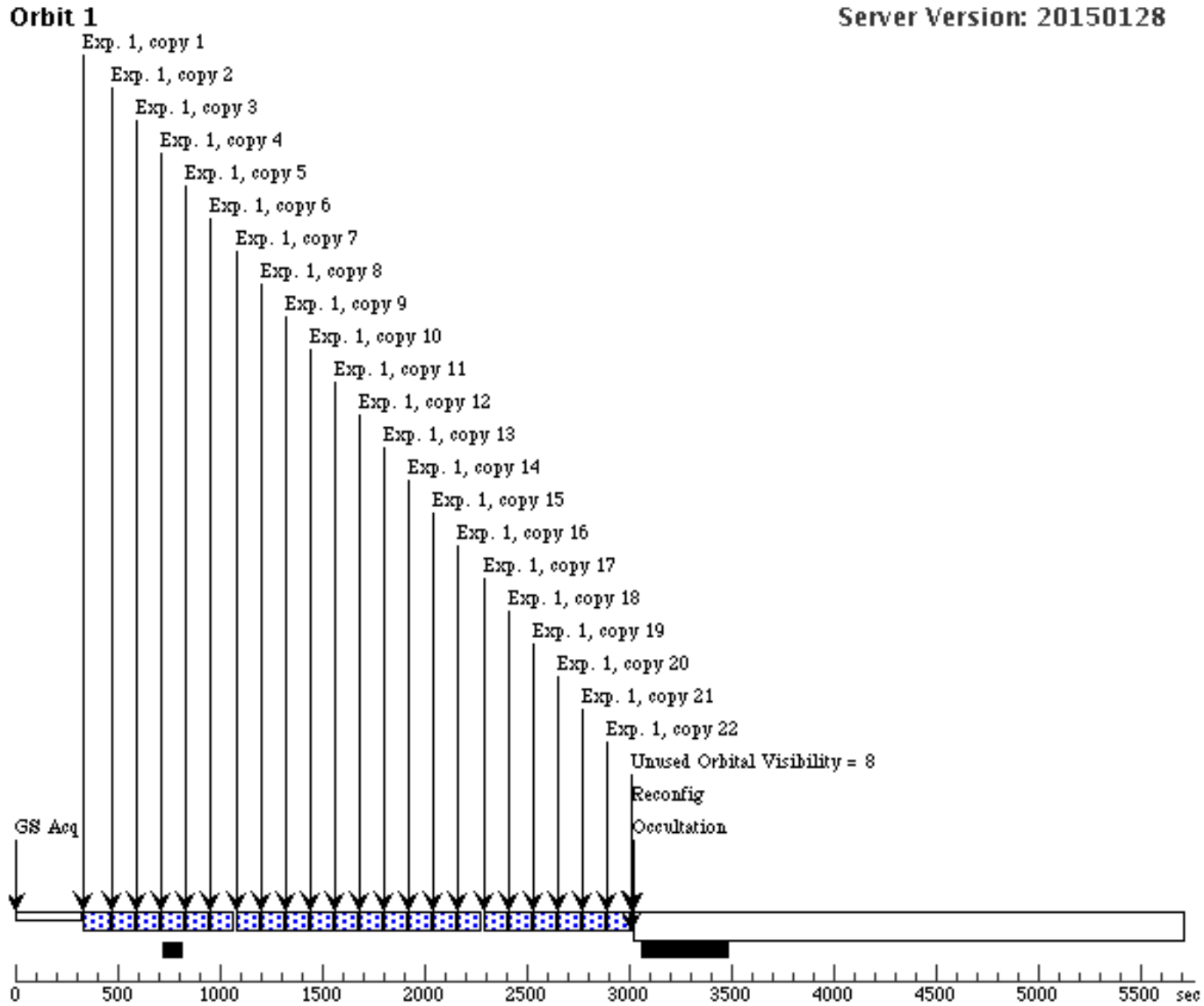


Proposal 14052 - F105W (06) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:26 GMT 2015

Visit	Proposal 14052, F105W (06), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1)	WISE1405+5534	WFC3/IR, MULTIACCUM, IRSUB256	F105W	NSAMP=15; SAMP-SEQ=SPAR S10				103.128633 Secs X 22 (2268.83 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)]

Orbit Structure



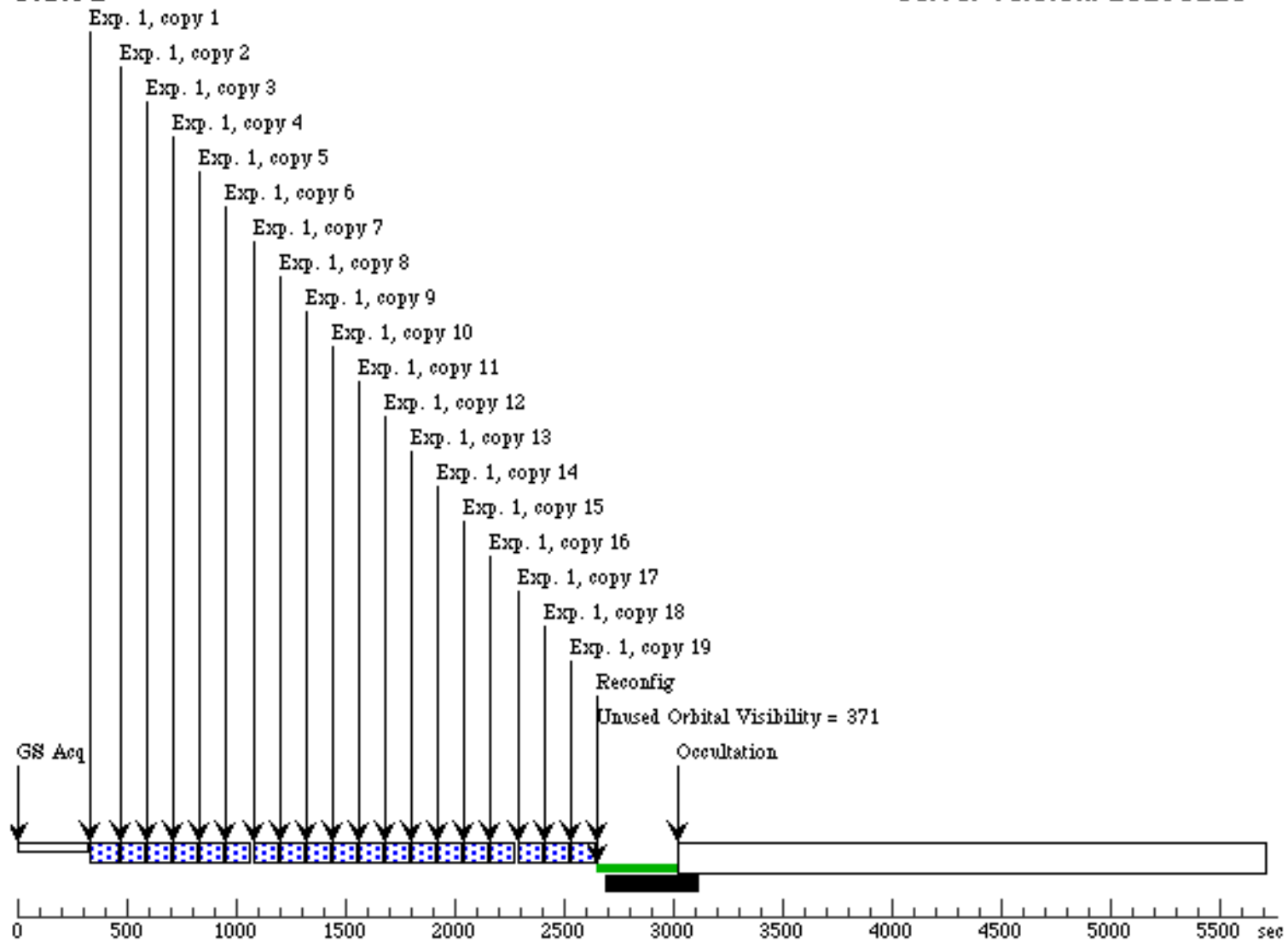
Proposal 14052 - F105W (07) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:26 GMT 2015

Visit	Proposal 14052, F105W (07), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1)	WISE1405+5534	WFC3/IR, MULTIACCUM, IRSUB256	F105W	NSAMP=15; SAMP-SEQ=SPAR S10				103.128633 Secs X 19 (1959.444 Secs)
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Orbit Structure

Orbit 1

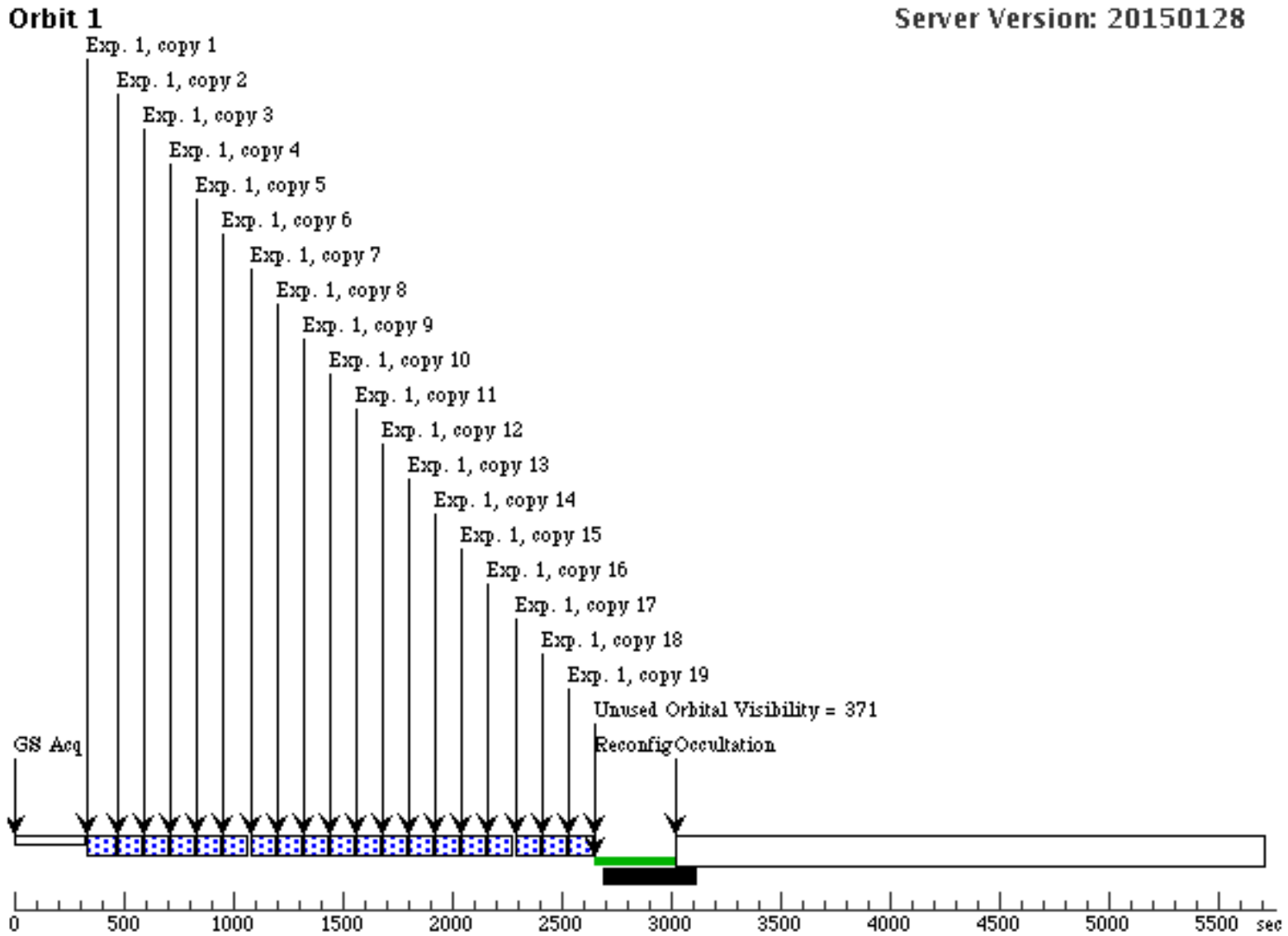


Proposal 14052 - F125W (08) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:26 GMT 2015

Visit	Proposal 14052, F125W (08), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1)	WISE1405+5534	WFC3/IR, MULTIACCUM, IRSUB256	F125W	NSAMP=15; SAMP-SEQ=SPAR S10				103.128633 Secs X 19 (1959.444 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)]

Orbit Structure



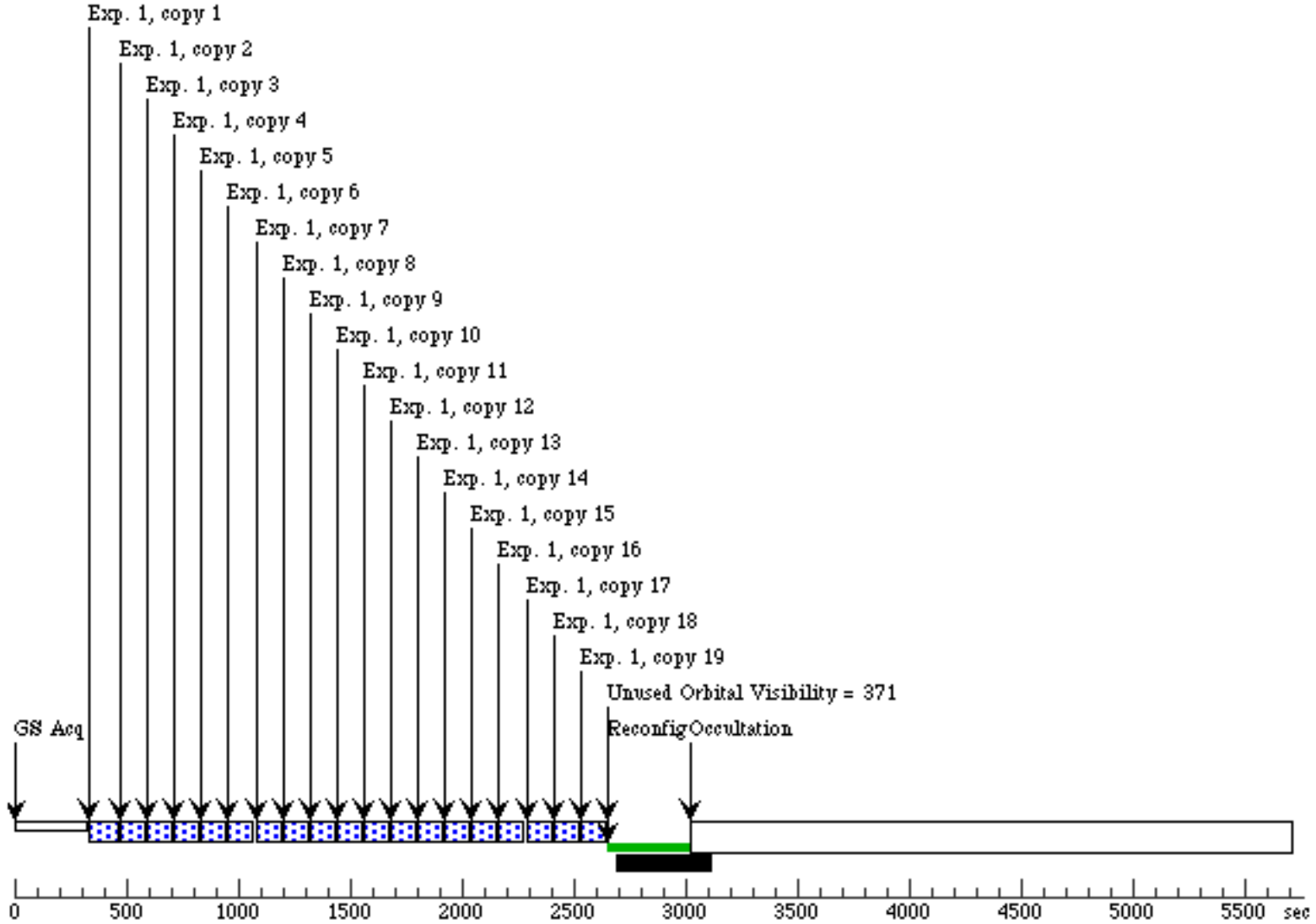
Proposal 14052 - F125W (09) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:26 GMT 2015

Visit	Proposal 14052, F125W (09), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1)	WISE1405+5534	WFC3/IR, MULTIACCUM, IRSUB256	F125W	NSAMP=15; SAMP-SEQ=SPAR S10				103.128633 Secs X 19 (1959.444 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)]

Orbit Structure

Orbit 1

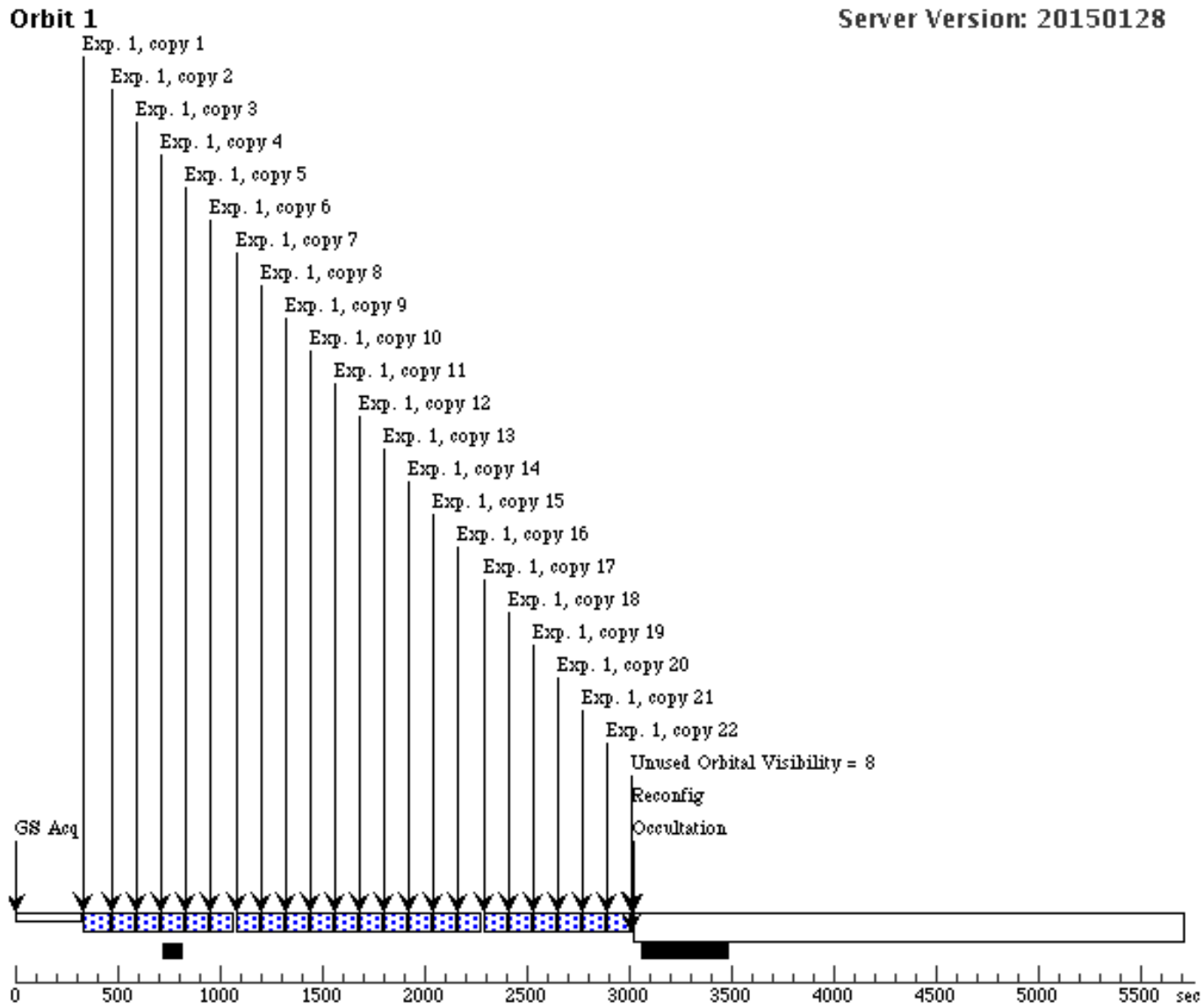


Proposal 14052 - F125W (10) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:26 GMT 2015

Visit	Proposal 14052, F125W (10), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) WISE1405+5534		WFC3/IR, MULTIACCUM, IRSUB256	F125W	NSAMP=15; SAMP-SEQ=SPAR S10			103.128633 Secs X 22 (2268.83 Secs)	[1]
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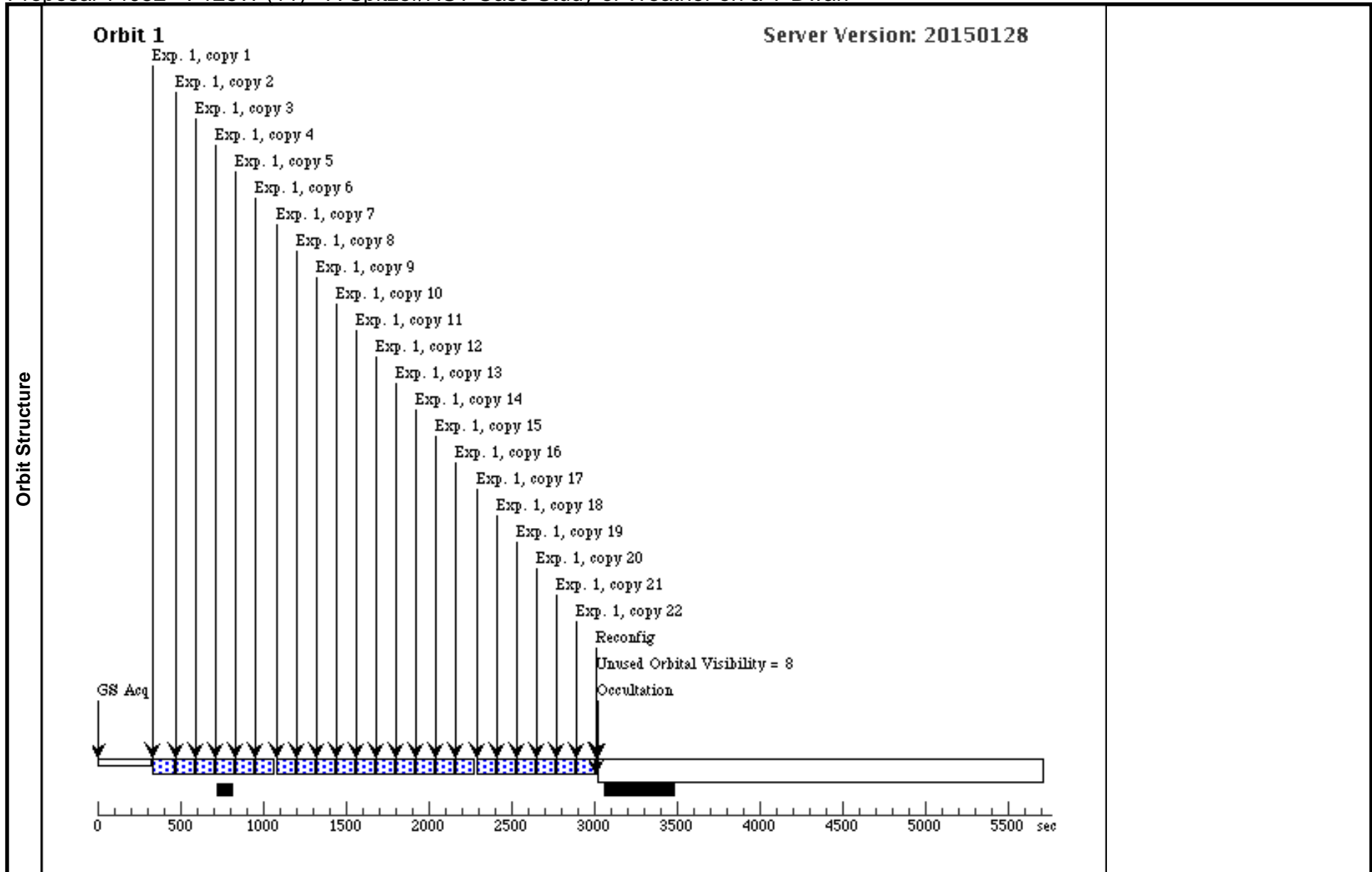
Orbit Structure



Proposal 14052 - F125W (11) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:26 GMT 2015

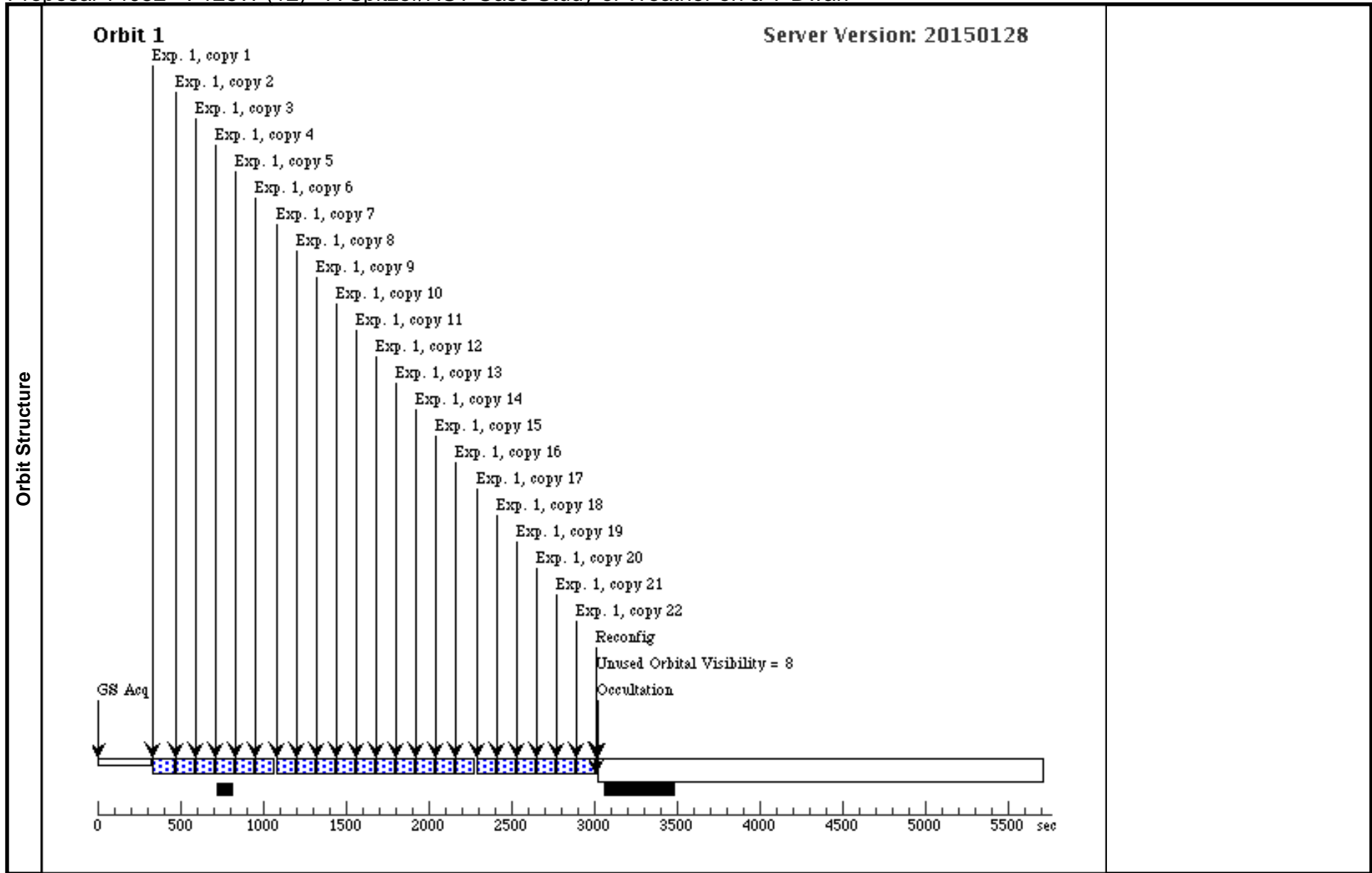
Visit	Proposal 14052, F125W (11), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) WISE1405+5534		WFC3/IR, MULTIACCUM, IRSUB256	F125W	NSAMP=15; SAMP-SEQ=SPAR S10			103.128633 Secs X 22 (2268.83 Secs)	[1]
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Proposal 14052 - F125W (12) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:26 GMT 2015

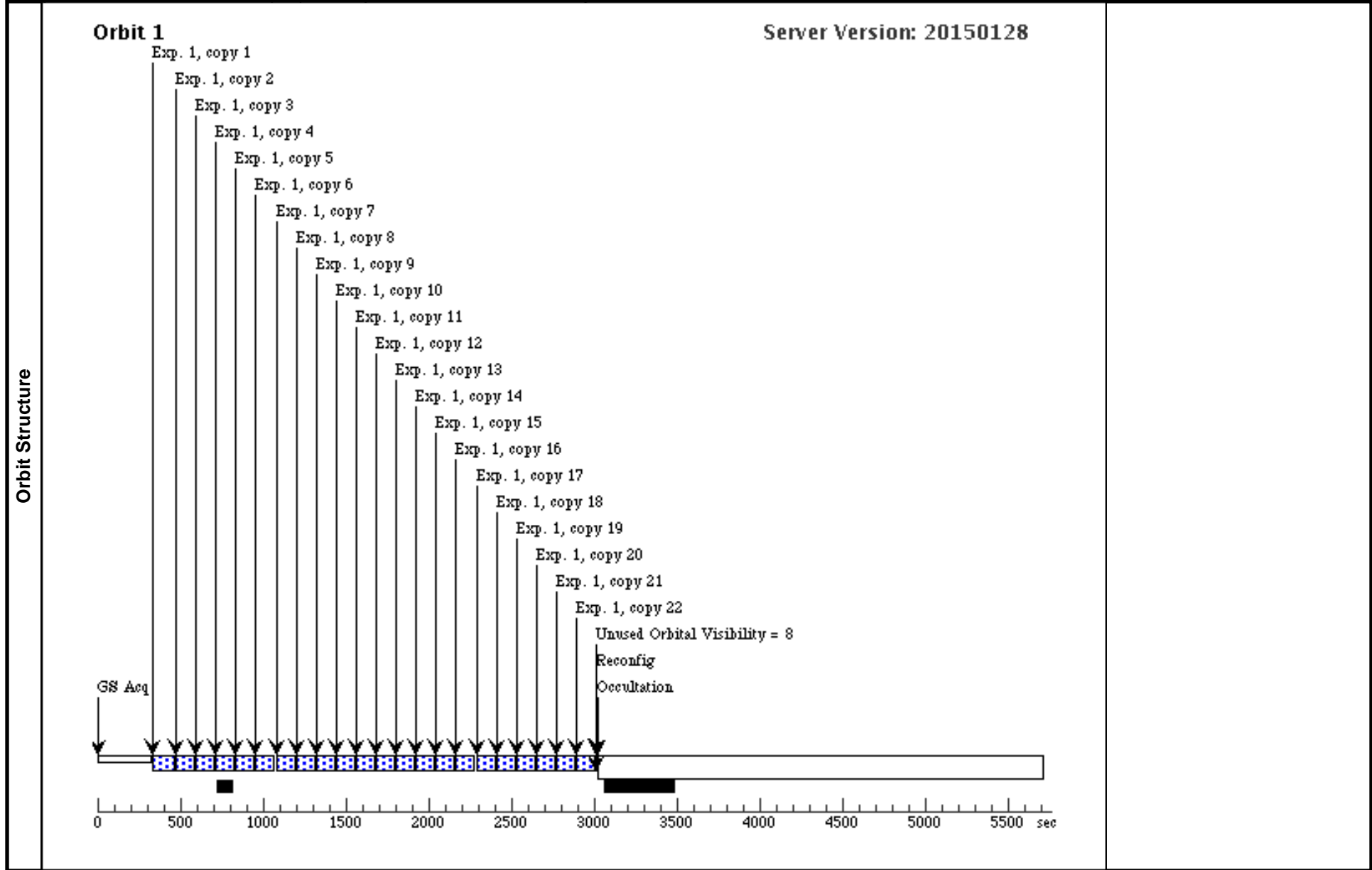
Visit	Proposal 14052, F125W (12), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) WISE1405+5534		WFC3/IR, MULTIACCUM, IRSUB256	F125W	NSAMP=15; SAMP-SEQ=SPAR S10			103.128633 Secs X 22 (2268.83 Secs)	[1]
									[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)]	



Proposal 14052 - F125W (13) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:26 GMT 2015

Visit	Proposal 14052, F125W (13), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) WISE1405+5534	(1) WISE1405+5534	WFC3/IR, MULTIACCUM, IRSUB256	F125W	NSAMP=15; SAMP-SEQ=SPAR S10				103.128633 Secs X 22 (2268.83 Secs)
									[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)]	



Proposal 14052 - F125W (14) - A Spitzer/HST Case Study of Weather on a Y Dwarf

Sun Mar 15 01:03:27 GMT 2015

Visit	Proposal 14052, F125W (14), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	WISE1405+5534	RA: 14 05 18.2136 (211.3258900d) Dec: +55 34 21.29 (55.57258d) Equinox: J2000	Proper Motion RA: -2.263 arcsec/yr Proper Motion Dec: 0.288 arcsec/yr Parallax: 0.129" Epoch of Position: 2011.14	V=35 J=21.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1)	WISE1405+5534	WFC3/IR, MULTIACCUM, IRSUB256	F125W	NSAMP=15; SAMP-SEQ=SPAR S10				103.128633 Secs X 22 (2268.83 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)]

