



15875 - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Cycle: 27, Proposal Category: GO

(Pure Parallel)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Rachael Lynn Beaton (PI) (Contact)	Princeton University	rachael.l.beaton@gmail.com
Prof. Wendy L. Freedman (CoI)	University of Chicago	wfreedman@uchicago.edu
Dr. Barry F. Madore (CoI)	Carnegie Institution of Washington	barry.f.madore@gmail.com
Dr. Julianne Dalcanton (CoI)	University of Washington	jd@astro.washington.edu
Meredith Durbin (CoI) (Contact)	University of Washington	mdurbin@uw.edu
Taylor Hoyt (CoI)	University of Chicago	taylorjhoyt@gmail.com
Dr. Jillian R Neeley (CoI)	Florida Atlantic University	neeleyj@fau.edu
Dr. David Nidever (CoI)	Montana State University - Bozeman	dnidever@montana.edu
Dr. Andy Monson (CoI)	The Pennsylvania State University	amonson@obs.carnegiescience.edu
Dr. Jeffrey Austin Sterling Rich Jr. (CoI)	Carnegie Institution of Washington	jrich@carnegiescience.edu
Dr. Mark Seibert (CoI)	Carnegie Institution of Washington	mseibert@obs.carnegiescience.edu

VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	ANY	WFC3/IR	1	31-Dec-2020 13:00:29.0	yes
02	ANY	WFC3/IR	1	31-Dec-2020 13:00:29.0	yes
03	ANY	WFC3/IR	1	31-Dec-2020 13:00:30.0	yes
04	ANY	WFC3/IR	1	31-Dec-2020 13:00:30.0	yes
05	ANY	WFC3/IR	1	31-Dec-2020 13:00:31.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
06	ANY	WFC3/IR	1	31-Dec-2020 13:00:31.0	yes
07	ANY	WFC3/IR	1	31-Dec-2020 13:00:32.0	yes
08	ANY	WFC3/IR	1	31-Dec-2020 13:00:33.0	yes
15	ANY	WFC3/IR	1	31-Dec-2020 13:00:33.0	yes
16	ANY	WFC3/IR	1	31-Dec-2020 13:00:34.0	yes
10	ANY	WFC3/IR	1	31-Dec-2020 13:00:34.0	yes
11	ANY	WFC3/IR	1	31-Dec-2020 13:00:35.0	yes
12	ANY	WFC3/IR	1	31-Dec-2020 13:00:35.0	yes
13	ANY	WFC3/IR	1	31-Dec-2020 13:00:35.0	yes
14	ANY	WFC3/IR	1	31-Dec-2020 13:00:36.0	yes
17	ANY	WFC3/IR	1	31-Dec-2020 13:00:37.0	yes
18	ANY	WFC3/IR	1	31-Dec-2020 13:00:37.0	yes
19	ANY	WFC3/IR	1	31-Dec-2020 13:00:37.0	yes
20	ANY	WFC3/IR	1	31-Dec-2020 13:00:38.0	yes
21	ANY	WFC3/IR	1	31-Dec-2020 13:00:38.0	yes
22	ANY	WFC3/IR	1	31-Dec-2020 13:00:39.0	yes
23	ANY	WFC3/IR	1	31-Dec-2020 13:00:39.0	yes
24	ANY	WFC3/IR	1	31-Dec-2020 13:00:40.0	yes
26	ANY	WFC3/IR	1	31-Dec-2020 13:00:40.0	yes
28	ANY	WFC3/IR	1	31-Dec-2020 13:00:41.0	yes
29	ANY	WFC3/IR	1	31-Dec-2020 13:00:41.0	yes

26 Total Orbits Used

ABSTRACT

The tension in the value of the Hubble constant as derived from the distance scale in the local universe and modeled from the anisotropies in the Cosmic Microwave Background continues to grow. While theoretical reasons for the tension are being explored, determining if systematics within

Proposal 15875 (STScI Edit Number: 1, Created: Thursday, December 31, 2020 at 1:00:42 PM Eastern Standard Time) - Overview

rungs of the distance scale is the cause of the tension requires the use of independent techniques. Of late the tip of the red giant branch (TRGB) has provided a key test of the calibration of type supernova Ia by Cepheids and has not yet revealed a systematic effect at this stage. Another concern is both expanding the Supernova Ia calibration sample, itself, and expanding the sample beyond star-forming hosts due to variance in the supernova with host properties. The TRGB applied in the infrared is poised to be a powerful tool to probe ever larger volumes and reach a wider set of supernova Ia hosts. However, anchoring the IR-TRGB is challenging because the two primary systems, the Milky Way and the Large Magellanic Cloud, only have observations in the 2MASS filter system. Comparison of IR-TRGB calibrations from the ground suggests that there are strong differences between the WFC3/IR and 2MASS filter system that are hard to reconcile at distance-ladder required precision. Here pure parallel orbits in Large and Small Magellanic Cloud are proposed to produce a robust filter-calibration to secure the foundation for the IR-TRGB distance scale. The proposal uses a combination of IR imaging and spectroscopy to enable a broader set of calibrations for other facilities where the IR-TRGB can be applied.

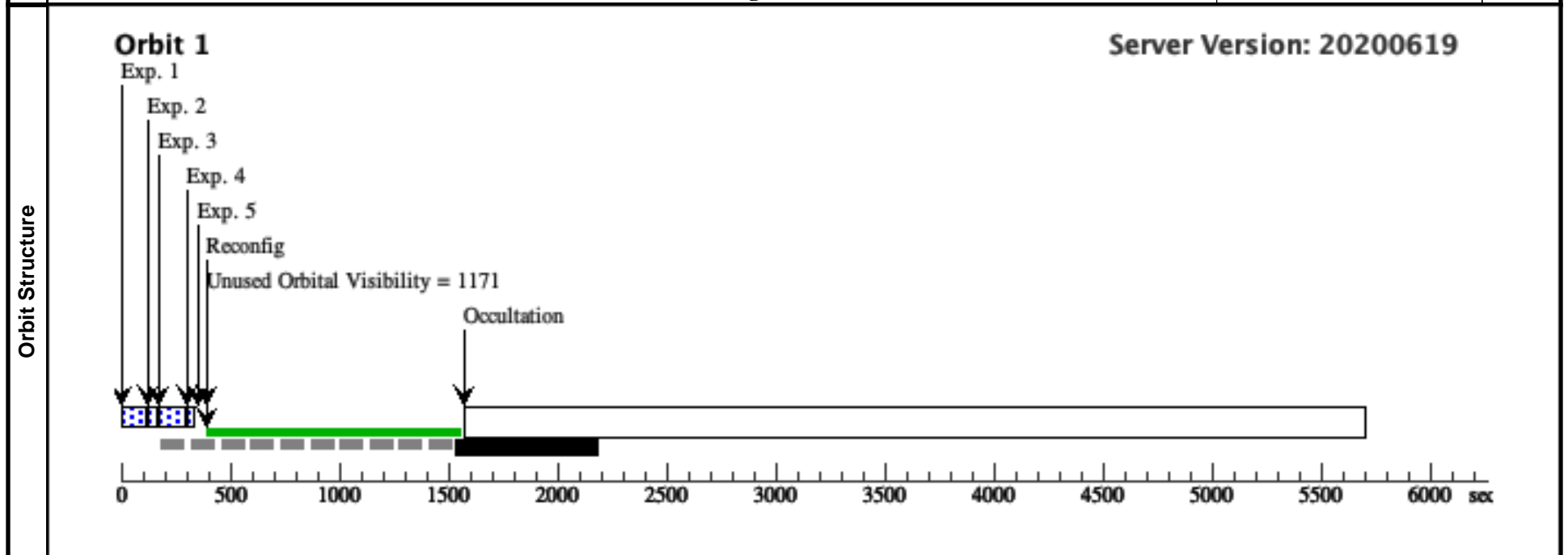
OBSERVING DESCRIPTION

This proposal observes with WFC3/IR in pure parallel mode. It will attempt to obtain 3-band photometry using the shortest exposures possible and 2-grisms for a set of fields in the LMC and SMC. The observations will have multiple reads to help with random errors and multi-visit fields will be used to constrain systematic errors. The specifications of MULTIACCUM are set to keep the targets from saturating and, if possible, minimize the systematics due to persistence and non-linearity.

Proposal 15875 - Orbit1 (01) (AV332 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:42 GMT 2020

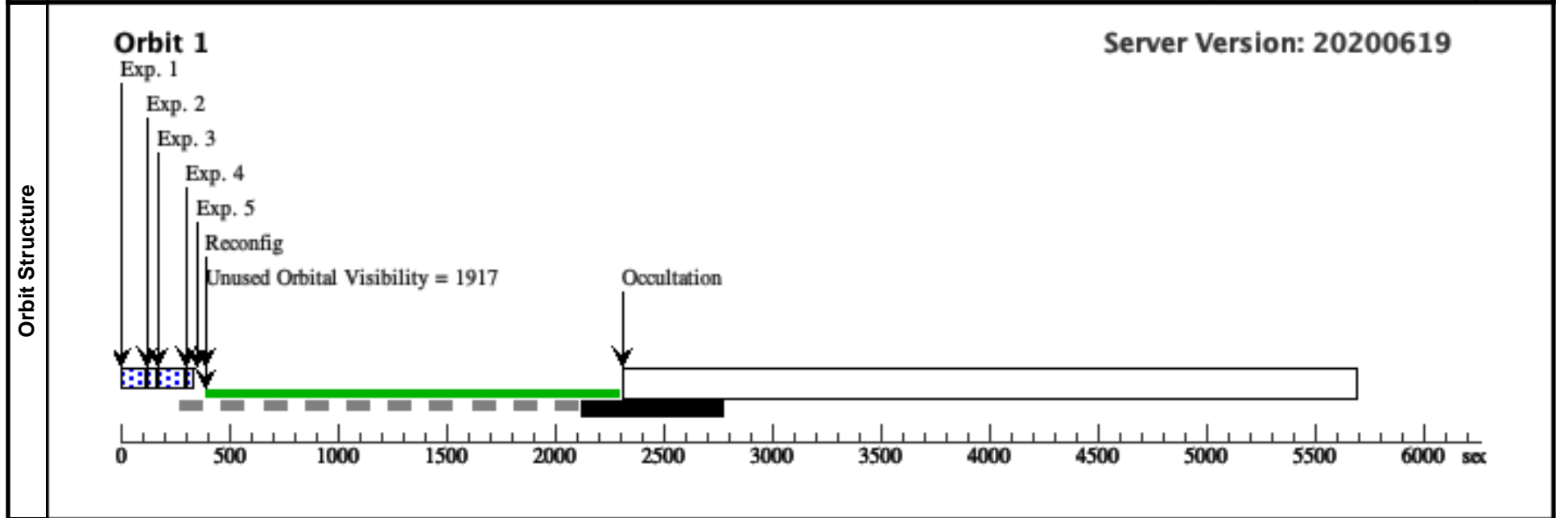
Visit	Proposal 15875, Orbit1 (01), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last.									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs) [==>]	[?]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs) [==>]	[?]
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs) [==>]	[?]



Proposal 15875 - Orbit1 (02) (AV235 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:42 GMT 2020

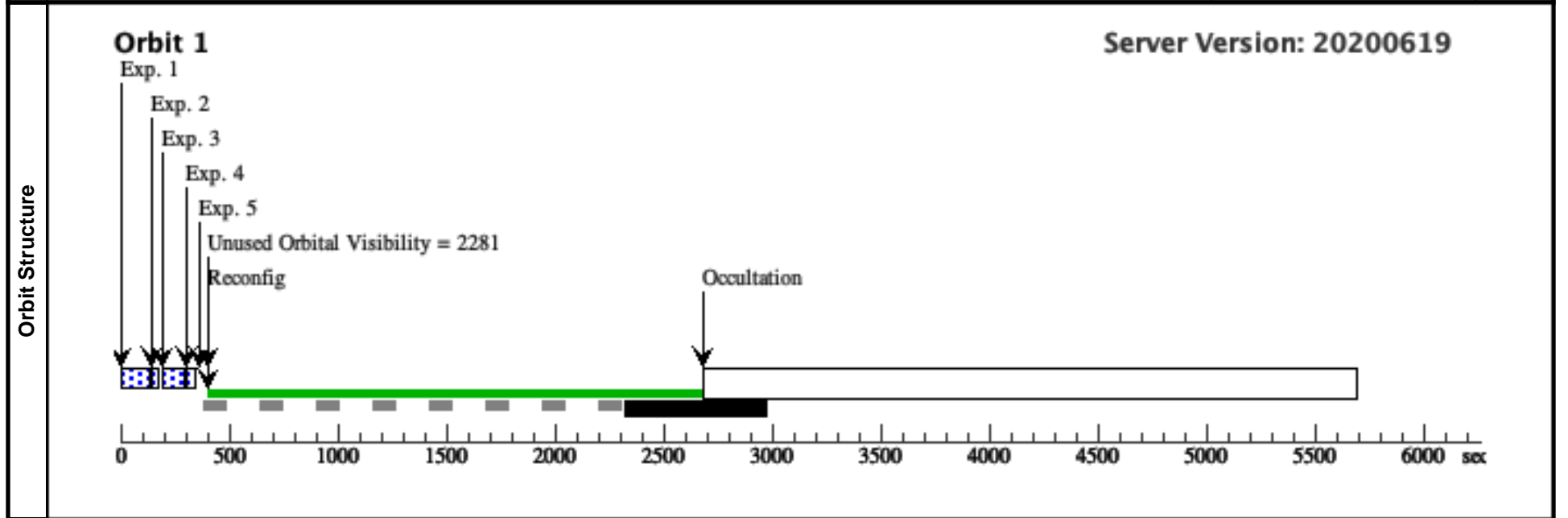
Visit	Proposal 15875, Orbit1 (02), completed											
	Diagnostic Status: No Diagnostics											
Scientific Instruments: WFC3/IR												
Special Requirements: (none)												
Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last.												
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4;	SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs)		
										[==>]	[?]	
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7;	SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)		
										[==>]	[?]	
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5;	SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs)		
										[==>]	[?]	
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7;	SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)		
										[==>]	[?]	
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5;	SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs)		
									[==>]	[?]		



Proposal 15875 - Orbit2 (03) (AV235 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:42 GMT 2020

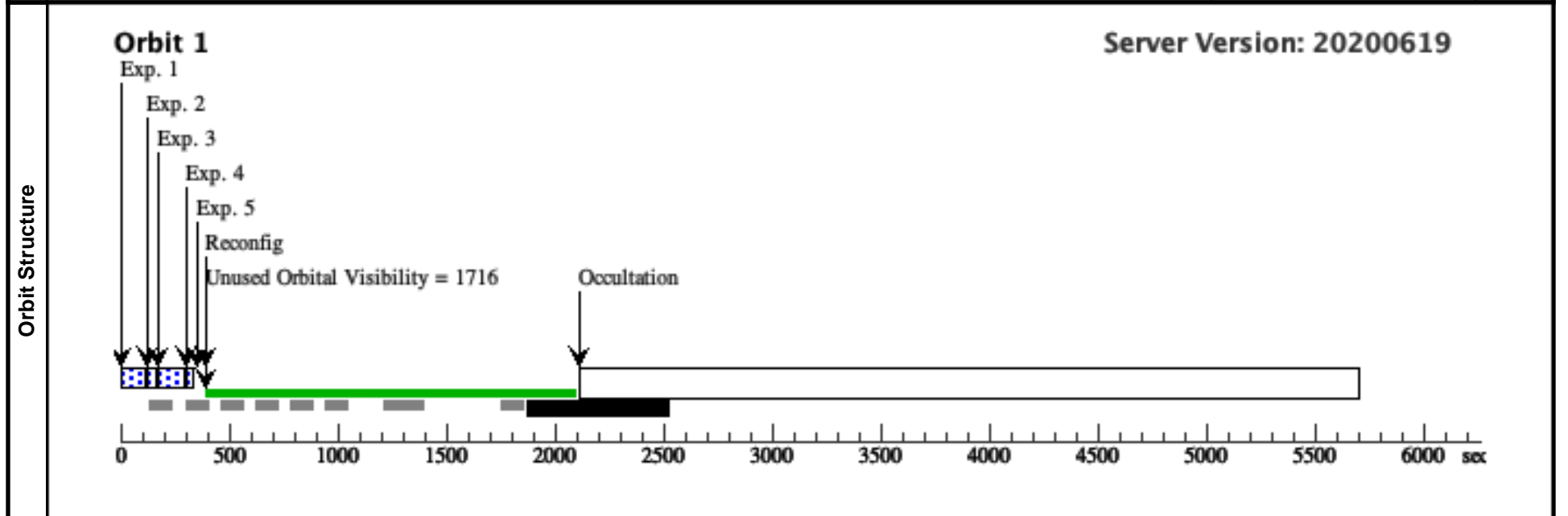
Visit	Proposal 15875, Orbit2 (03), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last. The timing of the H and J img+grism is flipped in the 2nd visit to test for sub-orbit systematics.									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs) [==>]	[?]
	2	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	3	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs) [==>]	[?]
	4	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs) [==>]	[?]



Proposal 15875 - Orbit1 (04) (AV488 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:42 GMT 2020

Visit	Proposal 15875, Orbit1 (04), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last.									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs) [==>]	[?]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs) [==>]	[?]
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs) [==>]	[?]

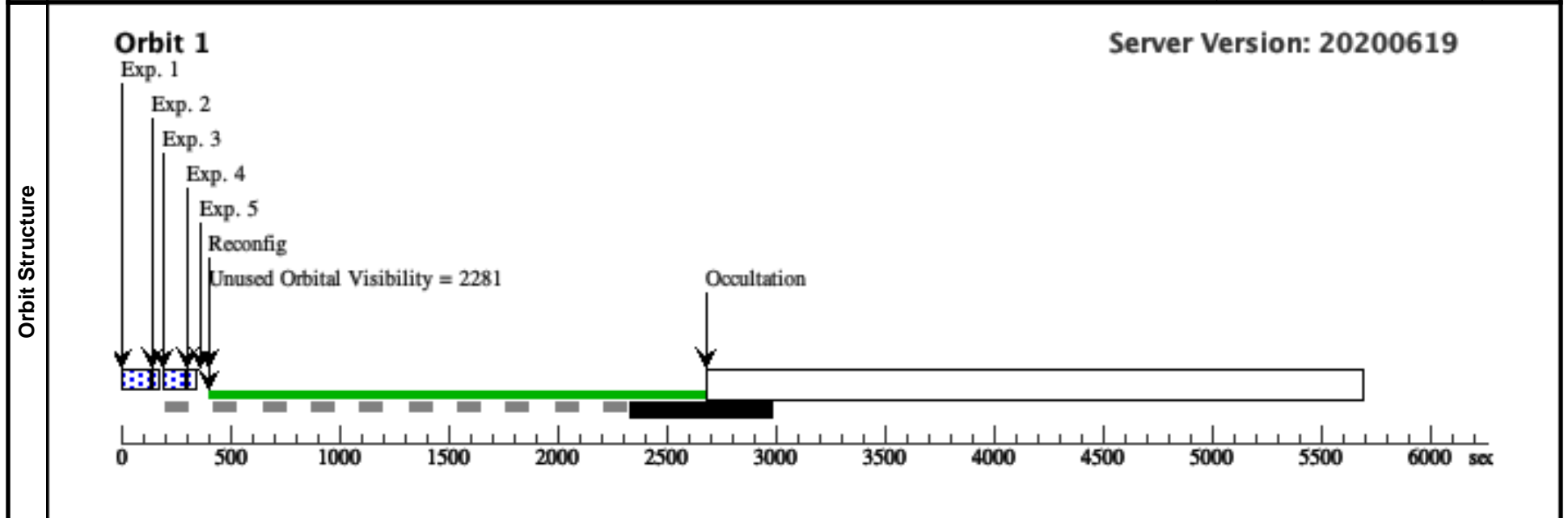


Proposal 15875 - Orbit2 (05) (AV488 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:42 GMT 2020

Visit	Proposal 15875, Orbit2 (05), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last. The timing of the H and J img+grism is flipped in the 2nd visit to test for sub-orbit systematics.</i>									

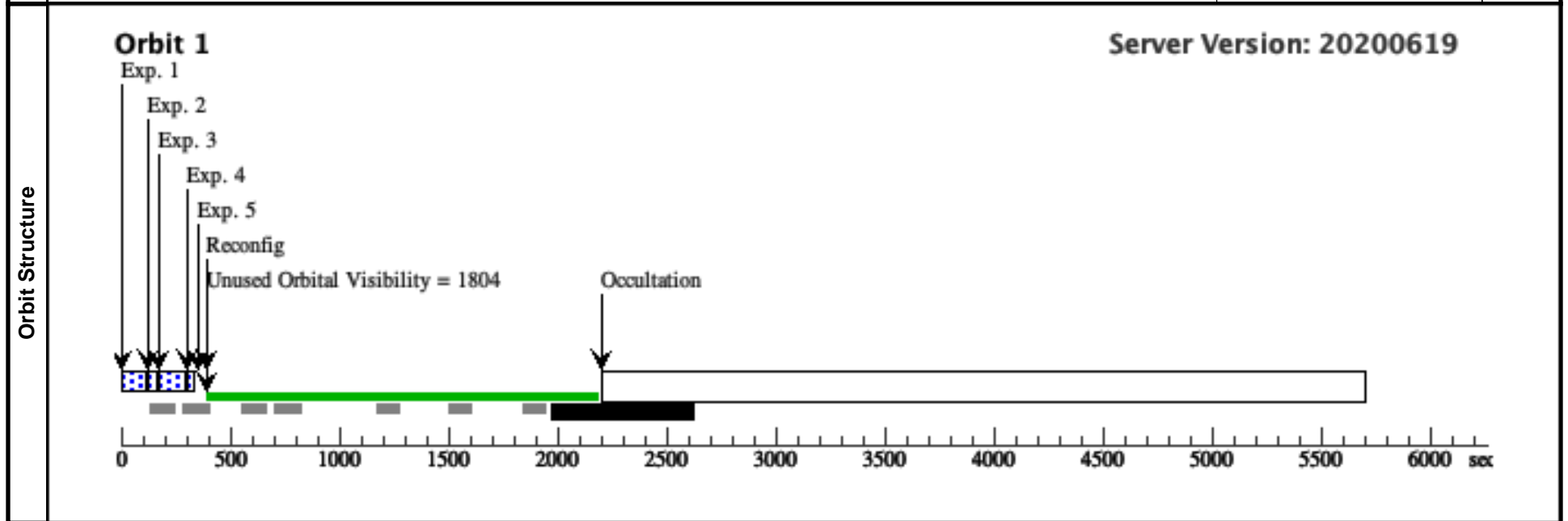
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs) [==>]
	2	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	3	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs) [==>]	[?]
	4	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs) [==>]	[?]



Proposal 15875 - Visit 06 (LMCE078-1 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:42 GMT 2020

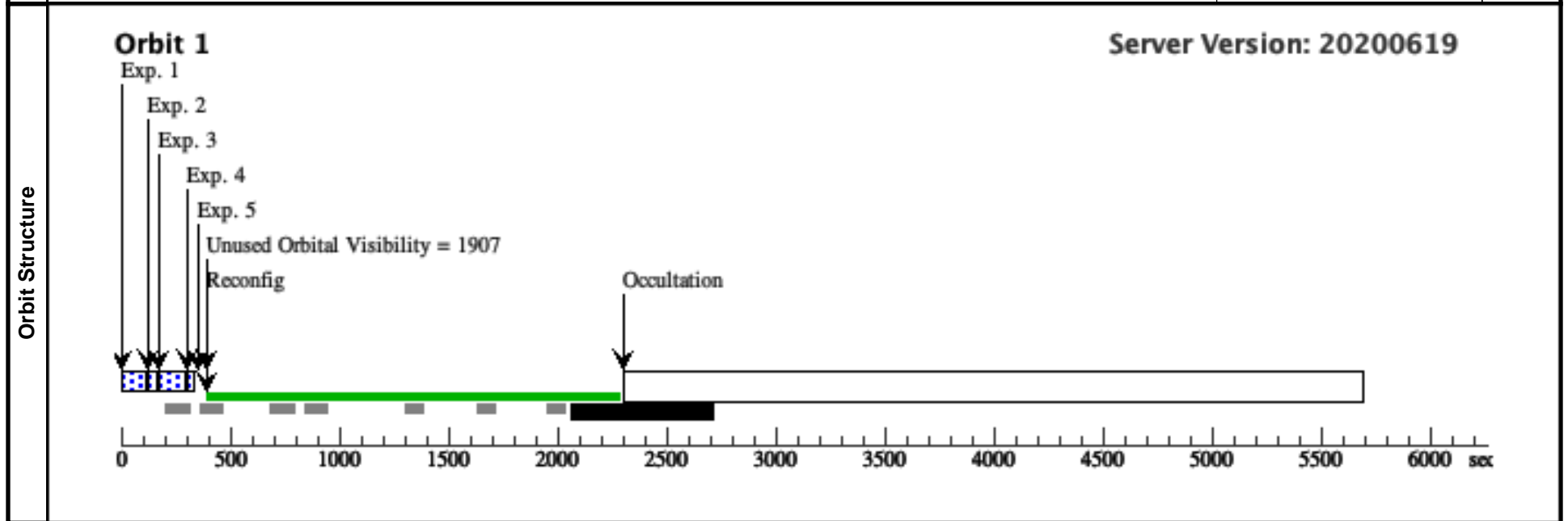
Visit	Proposal 15875, Visit 06, completed									
	Diagnostic Status: No Diagnostics									
Scientific Instruments: WFC3/IR										
Special Requirements: (none)										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs)	[?]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs)	[?]
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs)	[?]



Proposal 15875 - Visit 07 (N11-ELS-018 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:42 GMT 2020

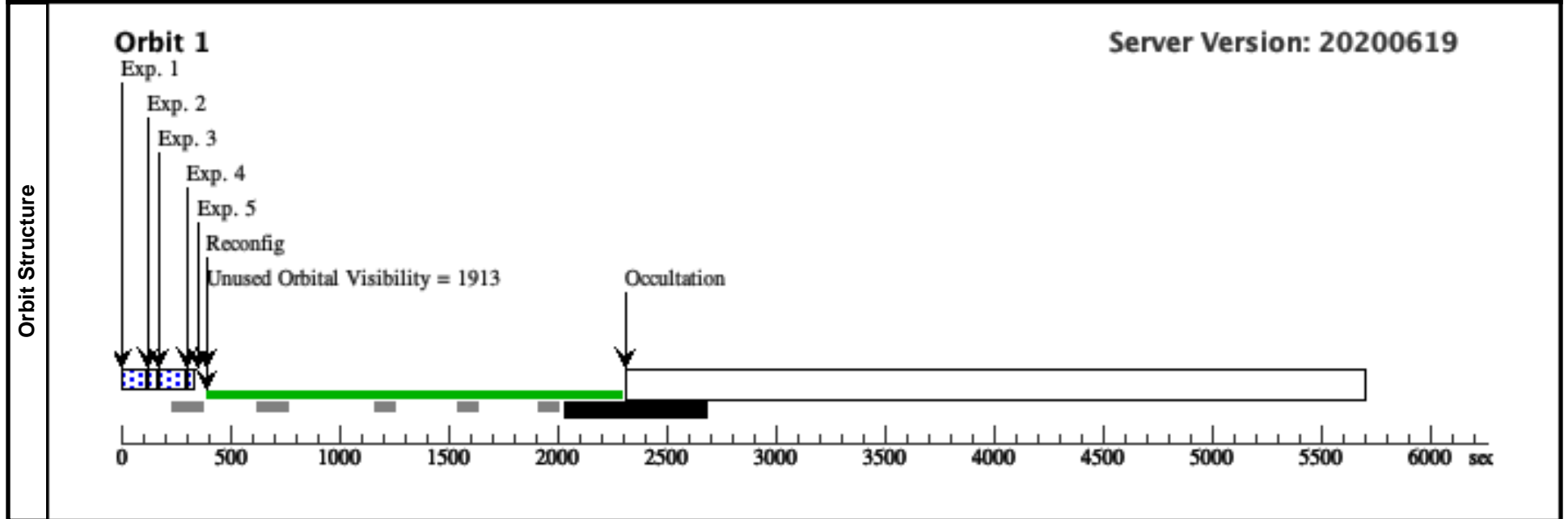
Visit	Proposal 15875, Visit 07, completed									
	Diagnostic Status: No Diagnostics									
Scientific Instruments: WFC3/IR										
Special Requirements: (none)										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs)	[?]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs)	[?]
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs)	[?]



Proposal 15875 - Visit 08 (SK-71D19 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:42 GMT 2020

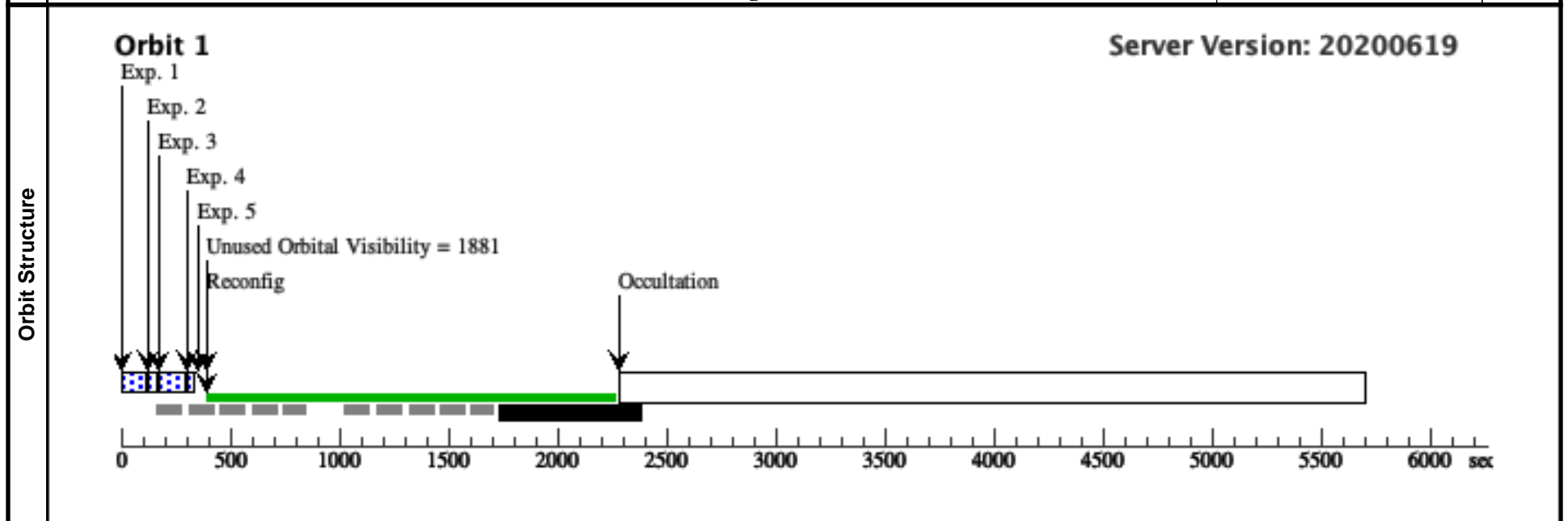
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs)	[?]	
2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)	[?]	
3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs)	[?]	
4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)	[?]	
5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs)	[?]	



Proposal 15875 - Orbit1 (15) (AV440 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

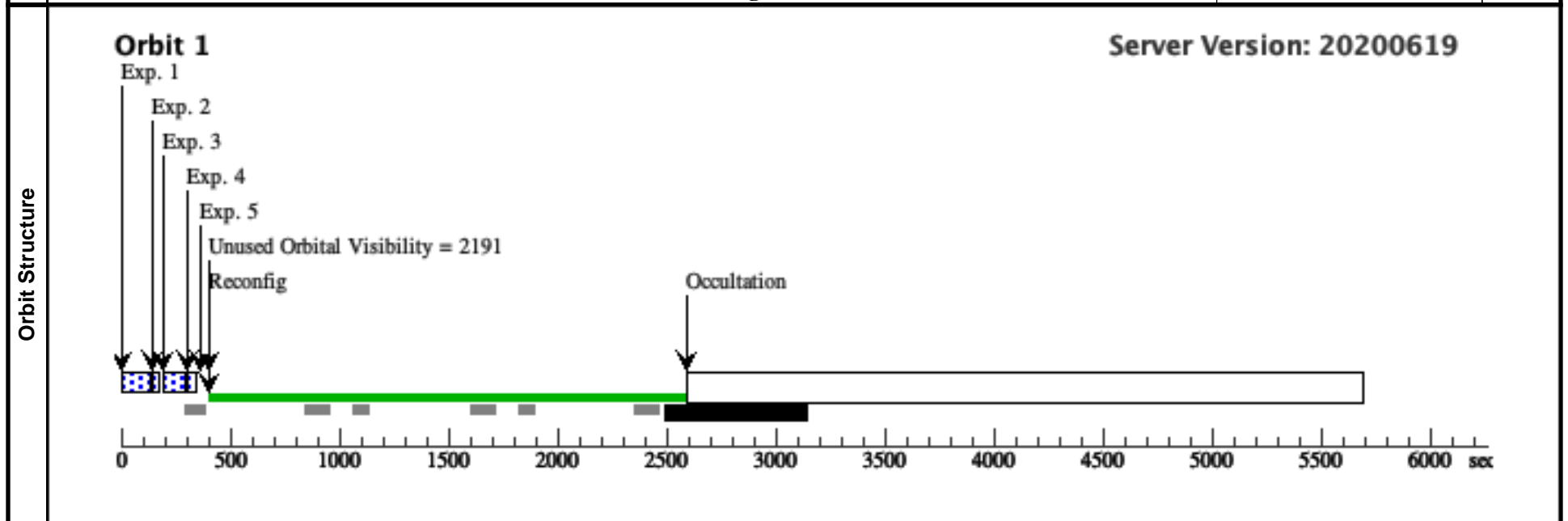
Visit	Proposal 15875, Orbit1 (15), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last.									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs) [==>]	[?]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs) [==>]	[?]
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs) [==>]	[?]



Proposal 15875 - Orbit2 (16) (AV440 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

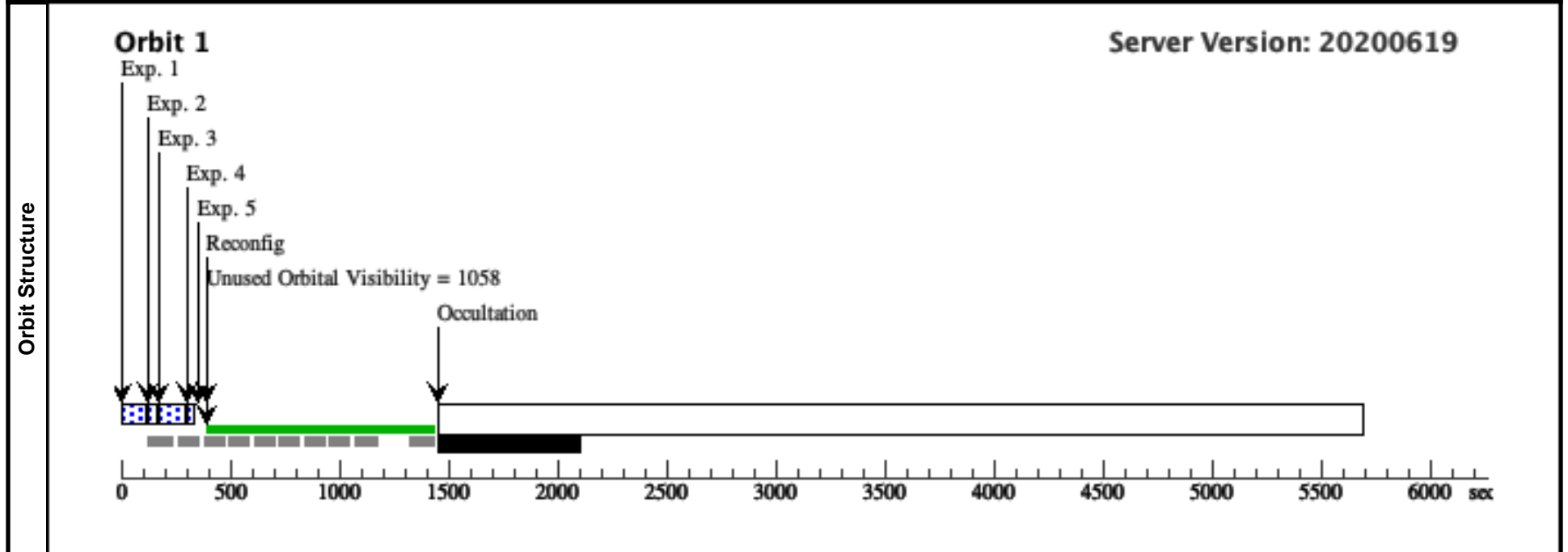
Visit	Proposal 15875, Orbit2 (16), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last. The timing of the H and J img+grism is flipped in the 2nd visit to test for sub-orbit systematics.									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs) [==>]	[?]
	2	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	3	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs) [==>]	[?]
	4	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs) [==>]	[?]



Proposal 15875 - Visit 10 (AV6 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

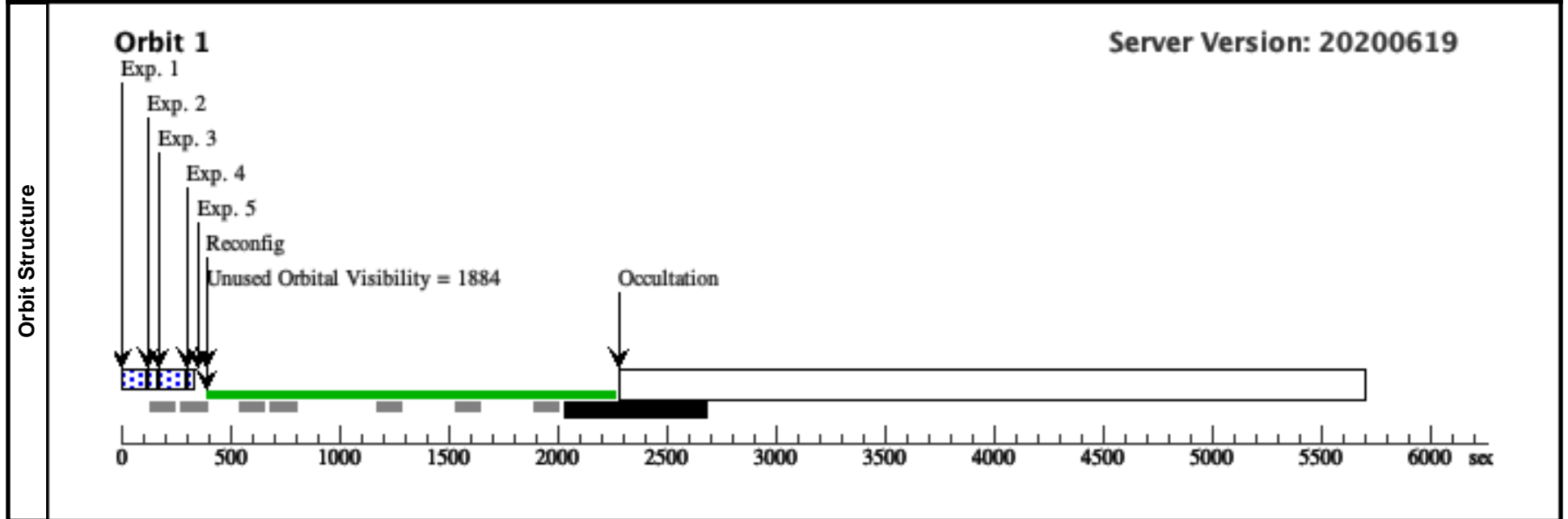
Visit	Proposal 15875, Visit 10, completed										
	Diagnostic Status: No Diagnostics										
Scientific Instruments: WFC3/IR											
Special Requirements: (none)											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25				77.933836 Secs (77.934 Secs)	[?]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID				20.526037 Secs (20.526 Secs)	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25				102.934351 Secs (102.934 Secs)	[?]
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID				20.526037 Secs (20.526 Secs)	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID				14.661455 Secs (14.661 Secs)	[?]



Proposal 15875 - Visit 11 (AV187 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

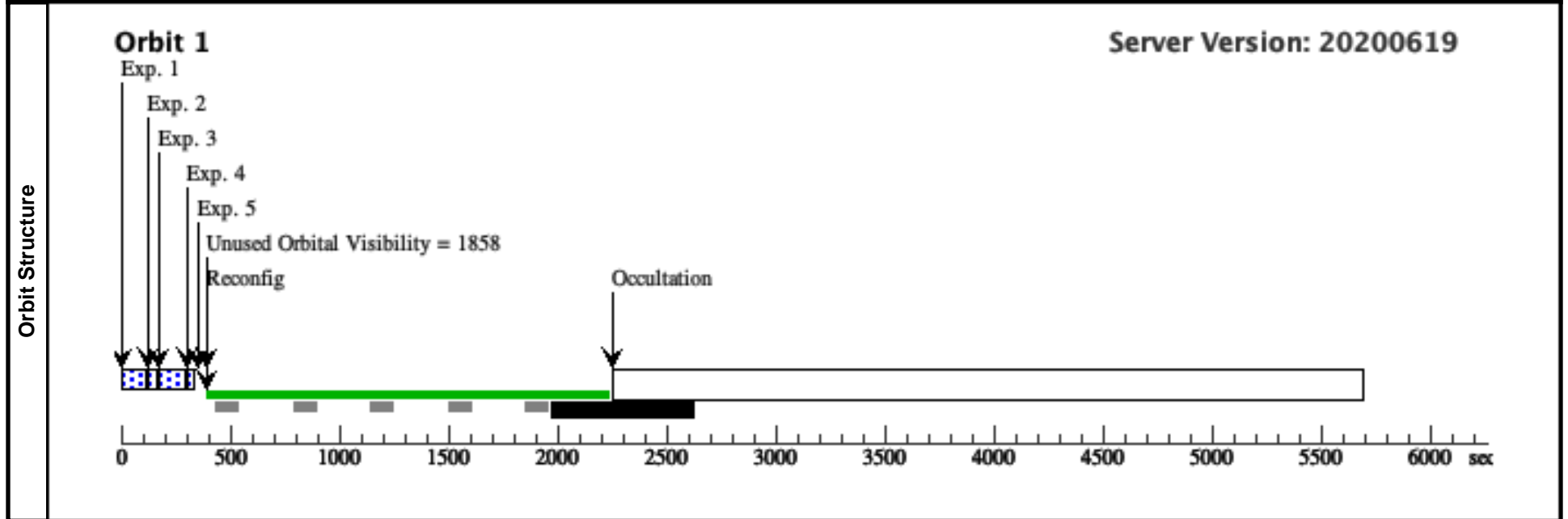
Visit	Proposal 15875, Visit 11, completed										
	Diagnostic Status: No Diagnostics										
Scientific Instruments: WFC3/IR											
Special Requirements: (none)											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25				77.933836 Secs (77.934 Secs)	[?]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID				20.526037 Secs (20.526 Secs)	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25				102.934351 Secs (102.934 Secs)	[?]
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID				20.526037 Secs (20.526 Secs)	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID				14.661455 Secs (14.661 Secs)	[?]



Proposal 15875 - Visit 12 (AV324 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

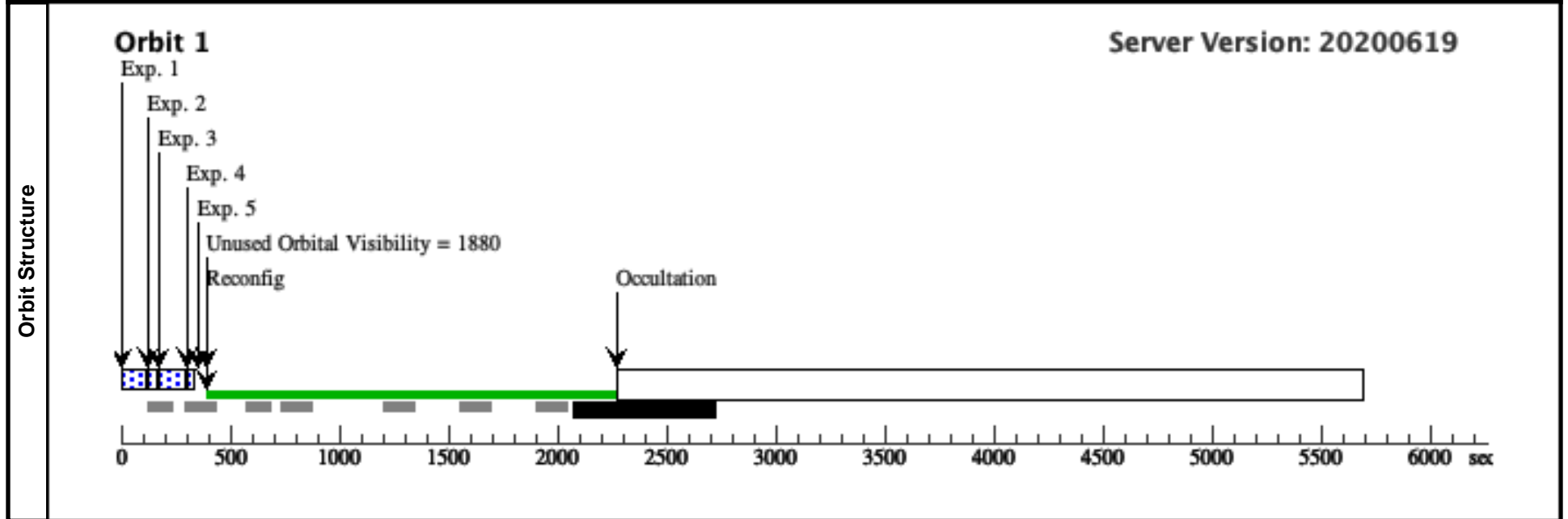
Visit	Proposal 15875, Visit 12, completed										
	Diagnostic Status: No Diagnostics										
Scientific Instruments: WFC3/IR											
Special Requirements: (none)											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25				77.933836 Secs (77.934 Secs)	[?]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID				20.526037 Secs (20.526 Secs)	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25				102.934351 Secs (102.934 Secs)	[?]
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID				20.526037 Secs (20.526 Secs)	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID				14.661455 Secs (14.661 Secs)	[?]



Proposal 15875 - Visit 13 (AV393 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

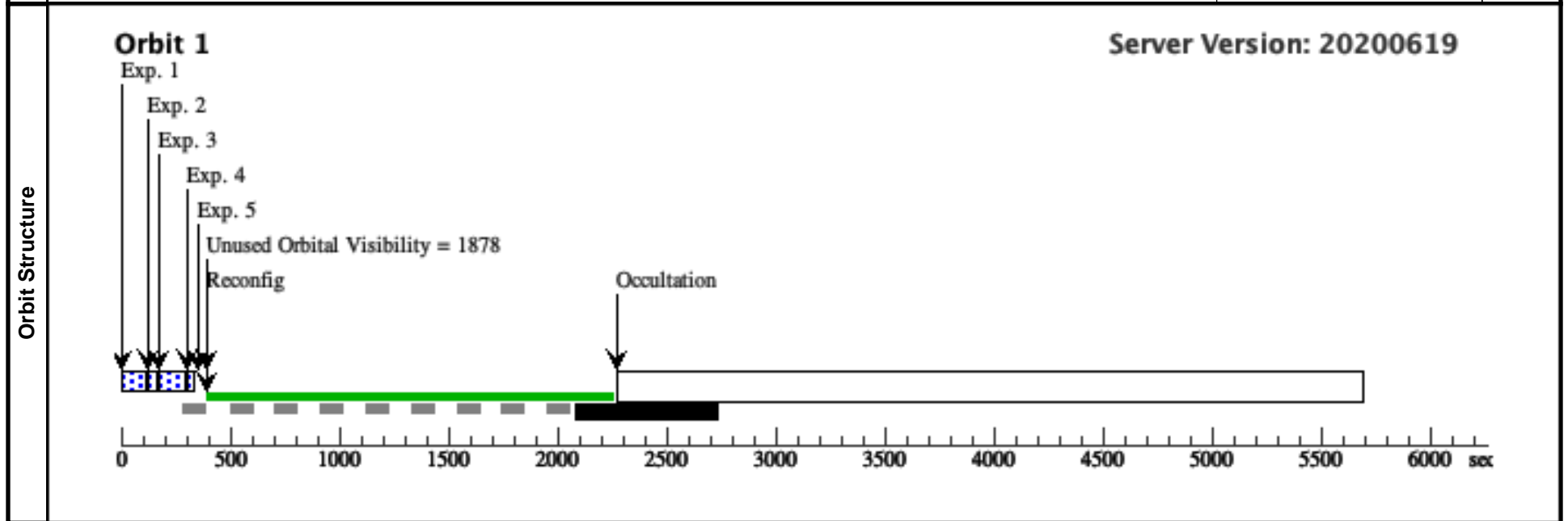
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs)	[==>]	[?]
2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)	[==>]	[?]
3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs)	[==>]	[?]
4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)	[==>]	[?]
5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs)	[==>]	[?]



Proposal 15875 - Visit 14 (AV393 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

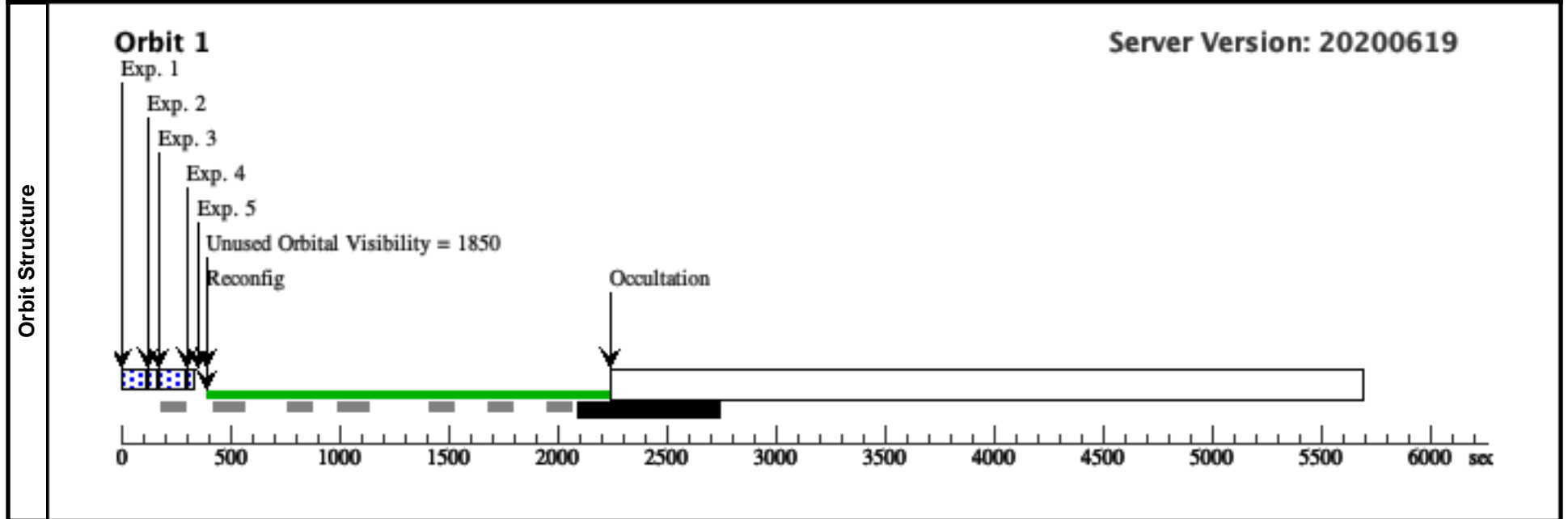
Visit	Proposal 15875, Visit 14, completed										
	Diagnostic Status: No Diagnostics										
Scientific Instruments: WFC3/IR											
Special Requirements: (none)											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25				77.933836 Secs (77.934 Secs)	[?]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID				20.526037 Secs (20.526 Secs)	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25				102.934351 Secs (102.934 Secs)	[?]
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID				20.526037 Secs (20.526 Secs)	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID				14.661455 Secs (14.661 Secs)	[?]



Proposal 15875 - Visit 17 (SK-68D8 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs)	[?]	
2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)	[?]	
3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs)	[?]	
4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)	[?]	
5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs)	[?]	

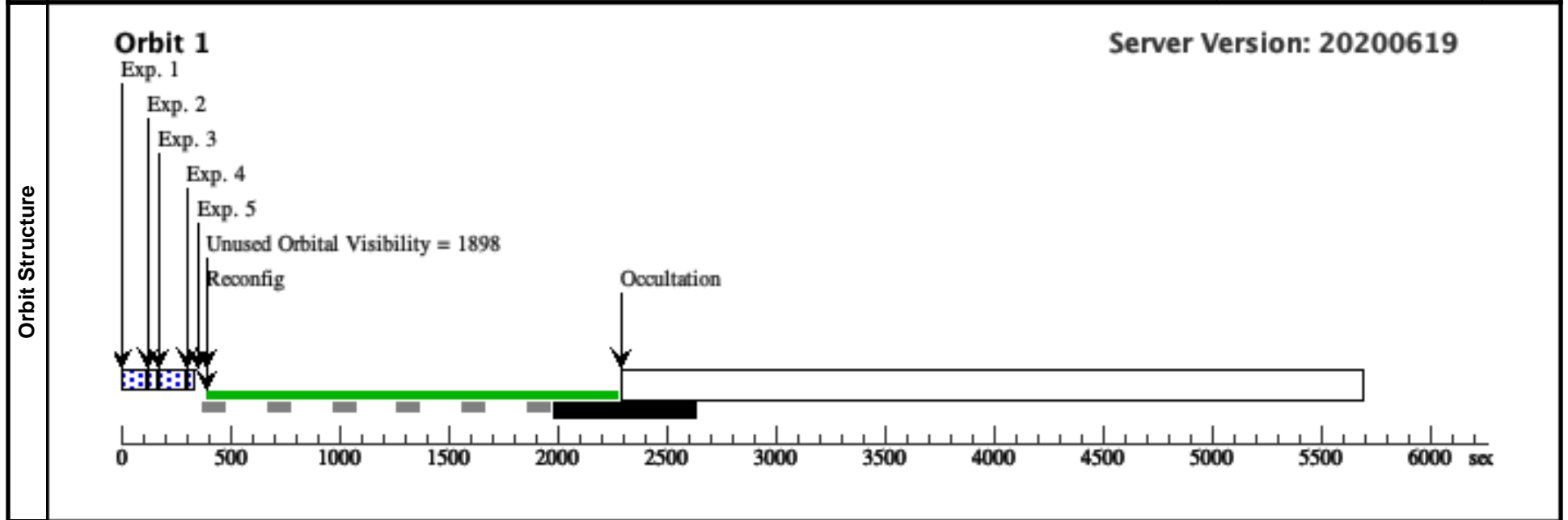


Proposal 15875 - Orbit1 (18) (SK-68D8 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

Visit	Proposal 15875, Orbit1 (18), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last.</i>									

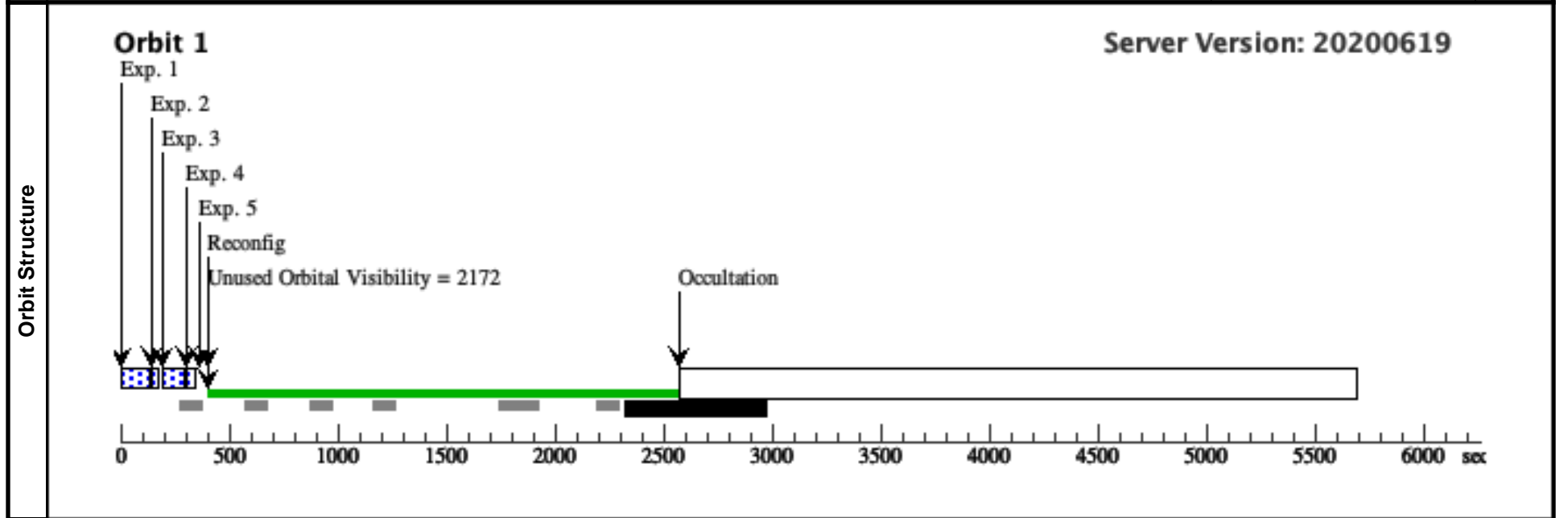
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs) [==>]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs) [==>]	[?]
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs) [==>]	[?]



Proposal 15875 - Orbit2 (19) (SK-68D8 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

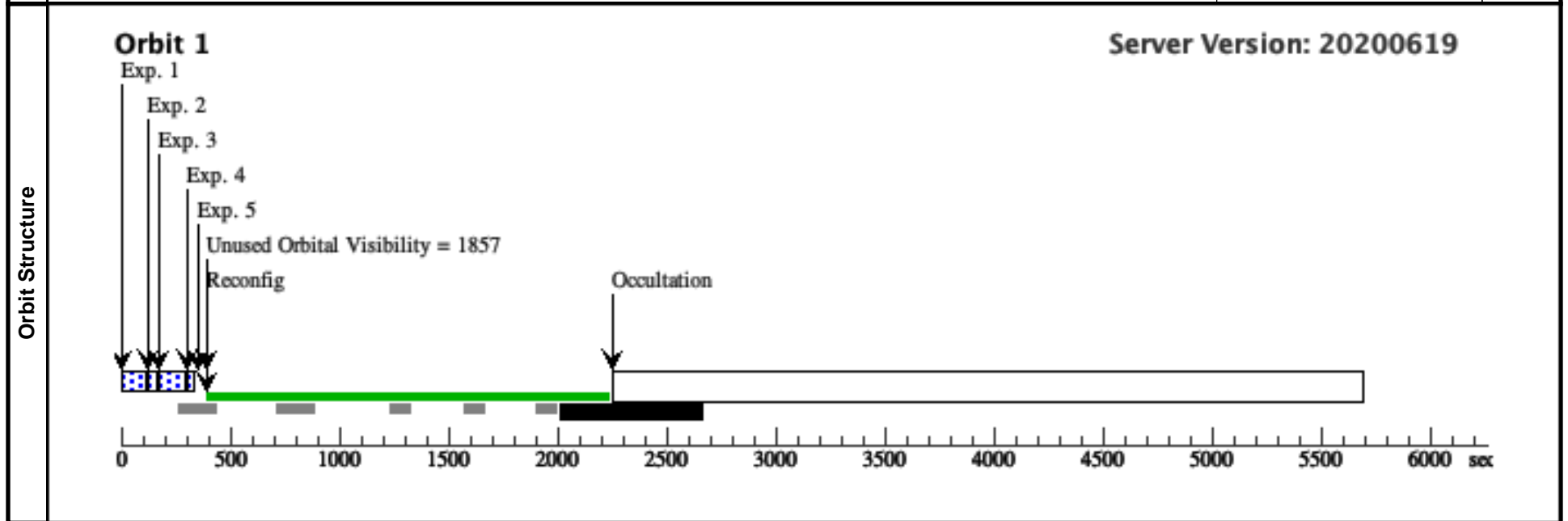
Visit	Proposal 15875, Orbit2 (19), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last. The timing of the H and J img+grism is flipped in the 2nd visit to test for sub-orbit systematics.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs) [==>]	[?]
	2	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	3	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs) [==>]	[?]
	4	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs) [==>]	[?]	



Proposal 15875 - Visit 20 (SK-69D140 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

Visit	Proposal 15875, Visit 20, completed									
	Diagnostic Status: No Diagnostics									
Scientific Instruments: WFC3/IR										
Special Requirements: (none)										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs)	[?]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs)	[?]
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs)	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs)	[?]

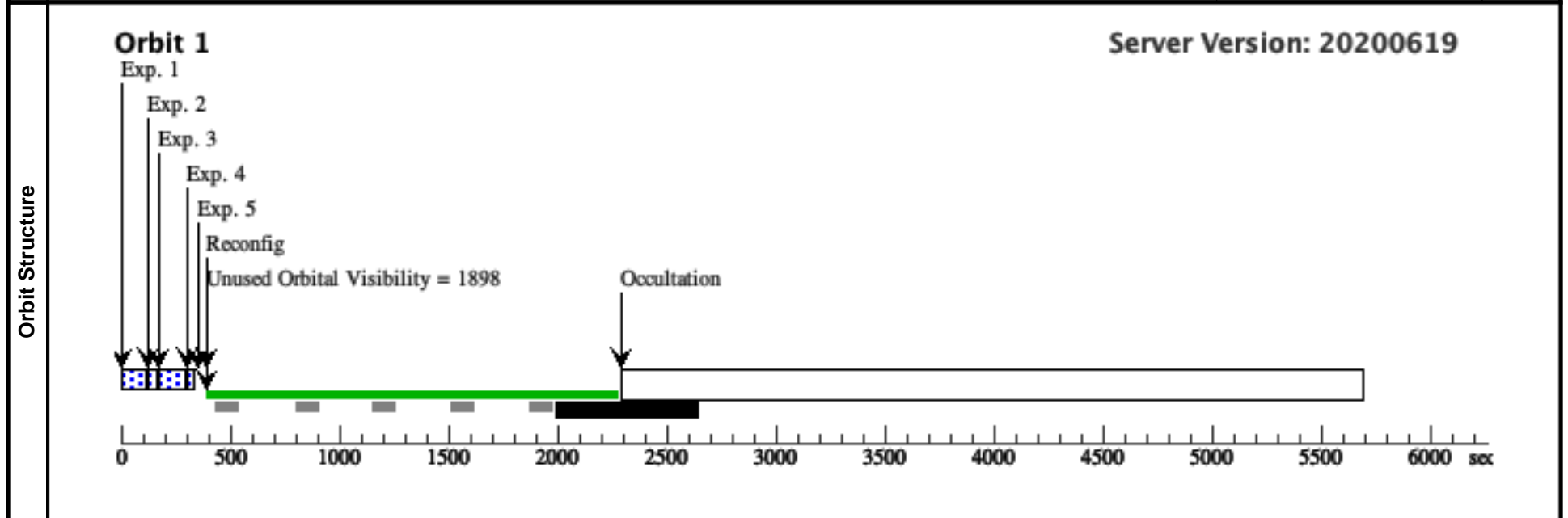


Proposal 15875 - Orbit1 (21) (SK-69D140 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

Visit	Proposal 15875, Orbit1 (21), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last.</i>								
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4;			77.933836 Secs (77.934 Secs)	
						SAMP-SEQ=SPAR S25			[==>]	[?]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7;			20.526037 Secs (20.526 Secs)	
						SAMP-SEQ=RAPID			[==>]	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5;			102.934351 Secs (102.934 Secs)	
					SAMP-SEQ=SPAR S25			[==>]	[?]	
4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7;			20.526037 Secs (20.526 Secs)		
					SAMP-SEQ=RAPID			[==>]	[?]	
5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5;			14.661455 Secs (14.661 Secs)		
					SAMP-SEQ=RAPID			[==>]	[?]	

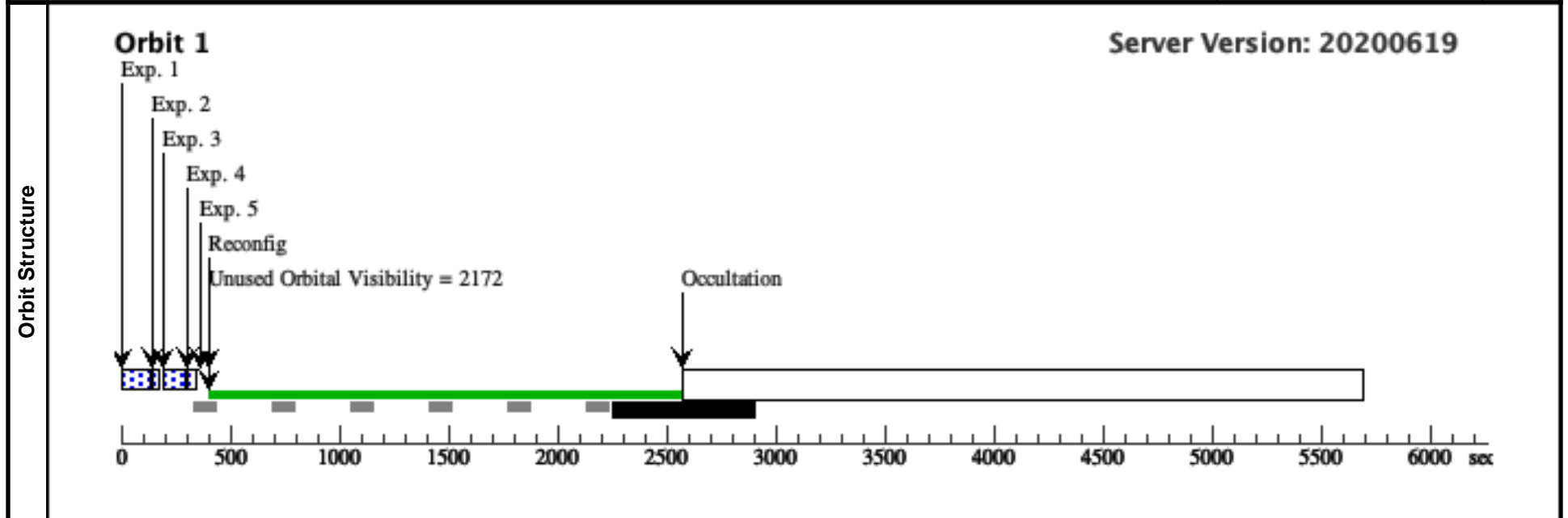


Proposal 15875 - Orbit2 (22) (SK-69D140 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

Visit	Proposal 15875, Orbit2 (22), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last. The timing of the H and J img+grism is flipped in the 2nd visit to test for sub-orbit systematics.</i>									

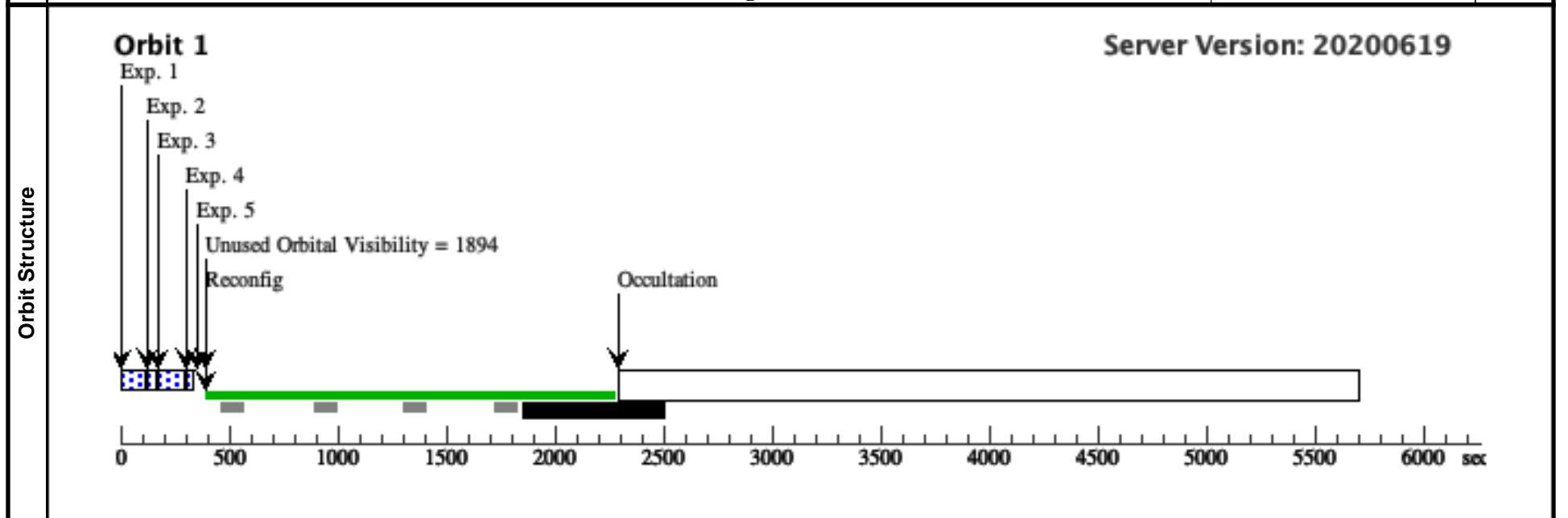
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs) [==>]
	2	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	3	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs) [==>]	[?]
	4	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs) [==>]	[?]



Proposal 15875 - Orbit1 (23) (SK-68D15 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

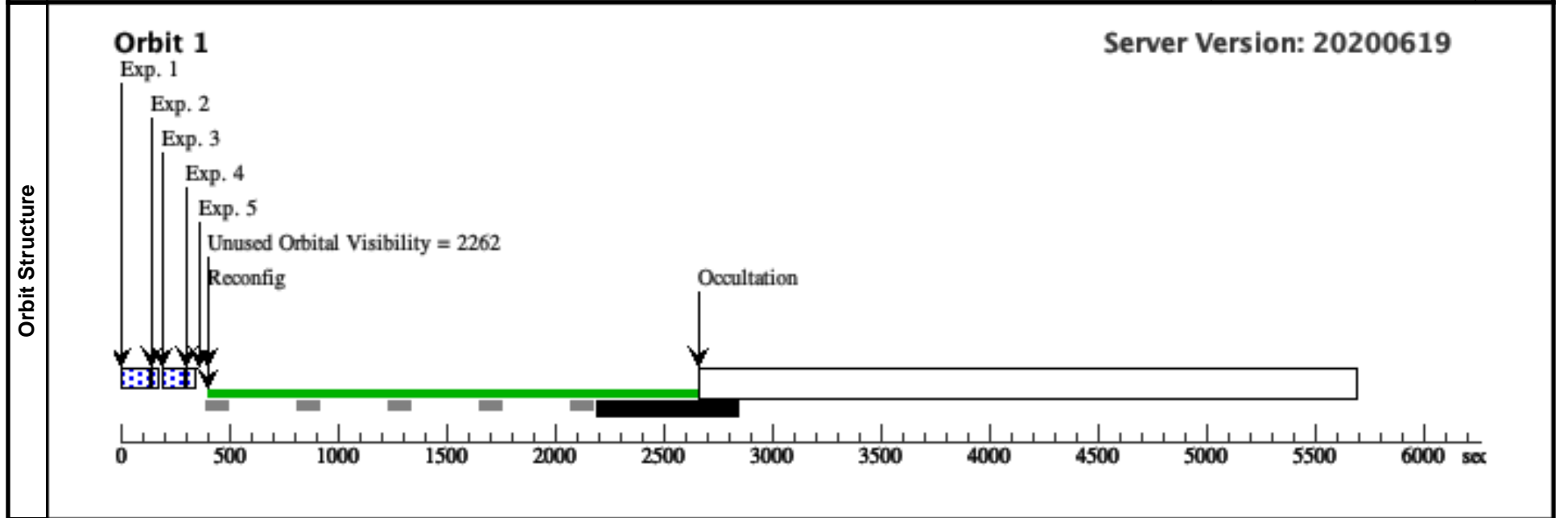
Visit	Proposal 15875, Orbit1 (23), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last.</i>										
	Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs) [==>]	[?]
		2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
		3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs) [==>]	[?]
		4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
5		wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs) [==>]	[?]	



Proposal 15875 - Orbit2 (24) (SK-68D15 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

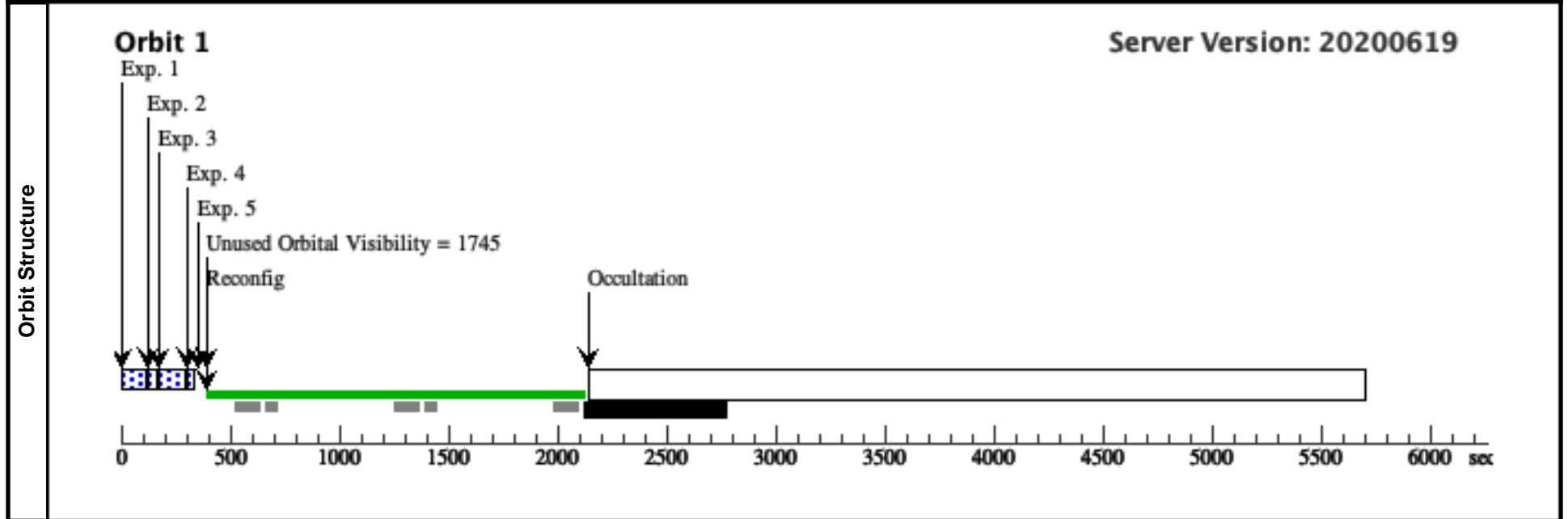
Visit	Proposal 15875, Orbit2 (24), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last. The timing of the H and J img+grism is flipped in the 2nd visit to test for sub-orbit systematics.									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs) [==>]	[?]
	2	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	3	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs) [==>]	[?]
	4	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs) [==>]	[?]



Proposal 15875 - Visit 26 (HV5622 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

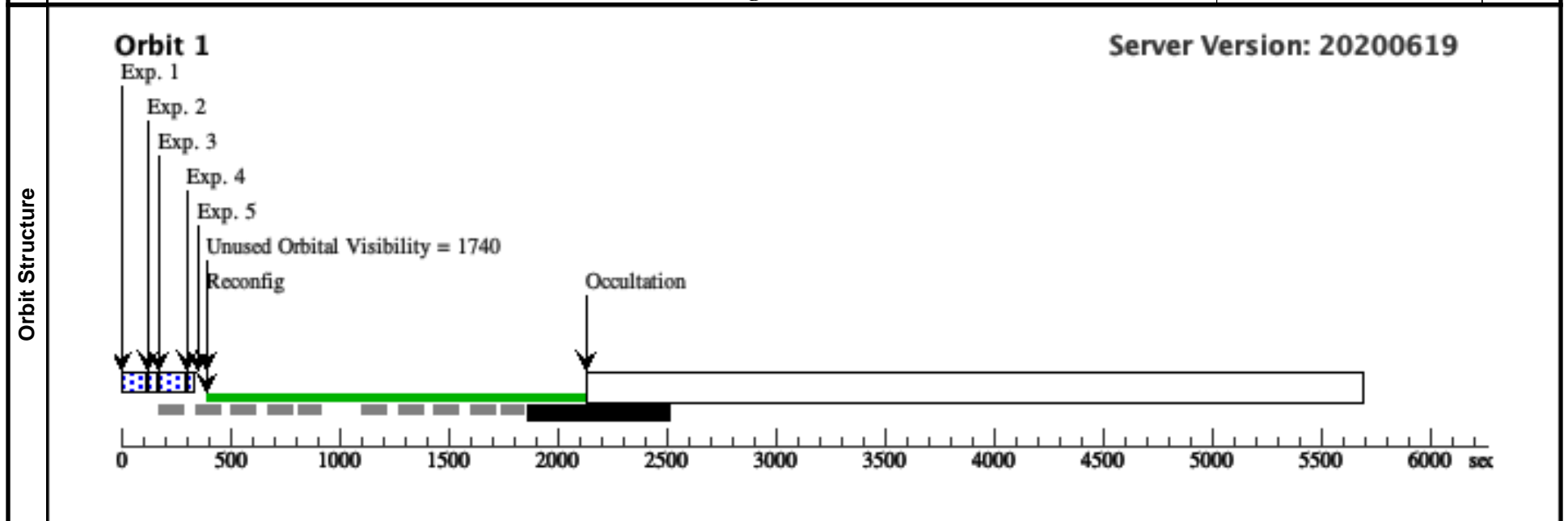
Visit	Proposal 15875, Visit 26, completed										
	Diagnostic Status: No Diagnostics										
Scientific Instruments: WFC3/IR											
Special Requirements: (none)											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25				77.933836 Secs (77.934 Secs) [==>]	[?]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID				20.526037 Secs (20.526 Secs) [==>]	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25				102.934351 Secs (102.934 Secs) [==>]	[?]
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID				20.526037 Secs (20.526 Secs) [==>]	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID				14.661455 Secs (14.661 Secs) [==>]	[?]



Proposal 15875 - Orbit1 (28) (2DFS-3694 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

Visit	Proposal 15875, Orbit1 (28) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last.									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs) [==>]	[?]
	2	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	3	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs) [==>]	[?]
	4	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs) [==>]	[?]



Proposal 15875 - Orbit2 (29) (2DFS-3694 Parallel) - Securing the Absolute Scale for the IR-TRGB Distance Ladder

Thu Dec 31 18:00:43 GMT 2020

Visit	Proposal 15875, Orbit2 (29) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: This orbit is broken into 5 exposures that sum up to 30 full frame reads. This means that the buffer can hold the data until the end and dump once the primary is complete. The F110W (wJ_img) is the most likely to be saturated and thus it comes last. The timing of the H and J img+grism is flipped in the 2nd visit to test for sub-orbit systematics.</i>									

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	H_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs (102.934 Secs) [==>]
	2	H_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	3	J_spec	ANY	WFC3/IR, MULTIACCUM, GRISM1024	G102	NSAMP=4; SAMP-SEQ=SPAR S25			77.933836 Secs (77.934 Secs) [==>]	[?]
	4	J_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=7; SAMP-SEQ=RAPID			20.526037 Secs (20.526 Secs) [==>]	[?]
	5	wJ_img	ANY	WFC3/IR, MULTIACCUM, GRISM1024	F110W	NSAMP=5; SAMP-SEQ=RAPID			14.661455 Secs (14.661 Secs) [==>]	[?]

