



16676 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal the Origin of the Hubble Tension

Cycle: 29, Proposal Category: GO

(Availability Mode: AVAILABLE)

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) V-CG-CAS	WFC3/IR WFC3/UVIS	1	19-Jan-2022 07:00:19.0	yes
02	(2) V-CF-CAS	WFC3/IR WFC3/UVIS	1	19-Jan-2022 07:00:21.0	yes
03	(3) V-CV-MON	WFC3/IR WFC3/UVIS	1	19-Jan-2022 07:00:22.0	yes
04	(4) V-V-CEN	WFC3/IR WFC3/UVIS	1	19-Jan-2022 07:00:24.0	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>
05	(5) V-CS-VEL	WFC3/IR WFC3/UVIS	1	19-Jan-2022 07:00:25.0	yes
06	(6) V-V367-SCT	WFC3/IR WFC3/UVIS	1	19-Jan-2022 07:00:27.0	yes
07	(7) V-RS-ORI	WFC3/IR WFC3/UVIS	1	19-Jan-2022 07:00:28.0	yes
57	(7) V-RS-ORI	WFC3/IR WFC3/UVIS	1	19-Jan-2022 07:00:30.0	yes
08	(11) V-X-VUL	WFC3/IR WFC3/UVIS	1	19-Jan-2022 07:00:32.0	yes
09	(9) V-TW-NOR	WFC3/IR WFC3/UVIS	1	19-Jan-2022 07:00:33.0	yes
10	(10) V-V340-NOR	WFC3/IR WFC3/UVIS	1	19-Jan-2022 07:00:35.0	yes

11 Total Orbits Used

ABSTRACT

Observations of Cepheids with HST show the Universe is expanding significantly faster than expected under the assumption of LCDM calibrated with measurements from the early Universe. The significance of this remarkable result has reached 4-6 sigma and passed numerous tests of robustness. Improving the measurement of the Hubble constant now can move us beyond merely detecting this discrepancy to identifying its origin. We propose to obtain HST photometry of Cepheids hosted by open clusters in the Milky Way whose large number of stars provide the highest parallax precision available in Gaia EDR3, a factor of more than three better than what is possible for individual Cepheids. To fully exploit these Cepheids to calibrate the distance ladder we propose to observe these Cluster Cepheids with spatial scanning and the same WFC3 three-band photometric system used for extragalactic Cepheids to nullify the effects of photometric zeropoint errors along the distance ladder. This program will surpass the best available calibration of the distance ladder to enable a 1% measurement of the Hubble constant and increase its leverage for identifying the source of the discrepancy. Gaia and HST, each doing what they do best, can continue to steadily advance our knowledge of what appears to be a new feature in the cosmological model

OBSERVING DESCRIPTION

Spatial scanning

Proposal 16676 - Visit 01 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

Wed Jan 19 12:00:35 GMT 2022

Visit	<p>Proposal 16676, Visit 01, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: (none)</p>																	
Diagnostics	<p>(Exposure 6 (Sequence 1-11 Non-Int in Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 1-11 Non-Int in Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 1-11 Non-Int in Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 1-11 Non-Int in Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 1-11 Non-Int in Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 1-11 Non-Int in Visit 01)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																	
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>V-CG-CAS</td> <td>RA: 00 00 59.2317 (.2467987d) Dec: +60 57 32.41 (60.95900d) Equinox: J2000</td> <td>Proper Motion RA: -4.361720704011023E-4 sec of time/yr Proper Motion Dec: - 0.0016109999478430836 arcsec/yr Epoch of Position: 2015.5</td> <td>V=11.28</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=EXT-STAR</p> <p>Description=[CEPHEID]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	V-CG-CAS	RA: 00 00 59.2317 (.2467987d) Dec: +60 57 32.41 (60.95900d) Equinox: J2000	Proper Motion RA: -4.361720704011023E-4 sec of time/yr Proper Motion Dec: - 0.0016109999478430836 arcsec/yr Epoch of Position: 2015.5	V=11.28	Reference Frame: SIMBAD					
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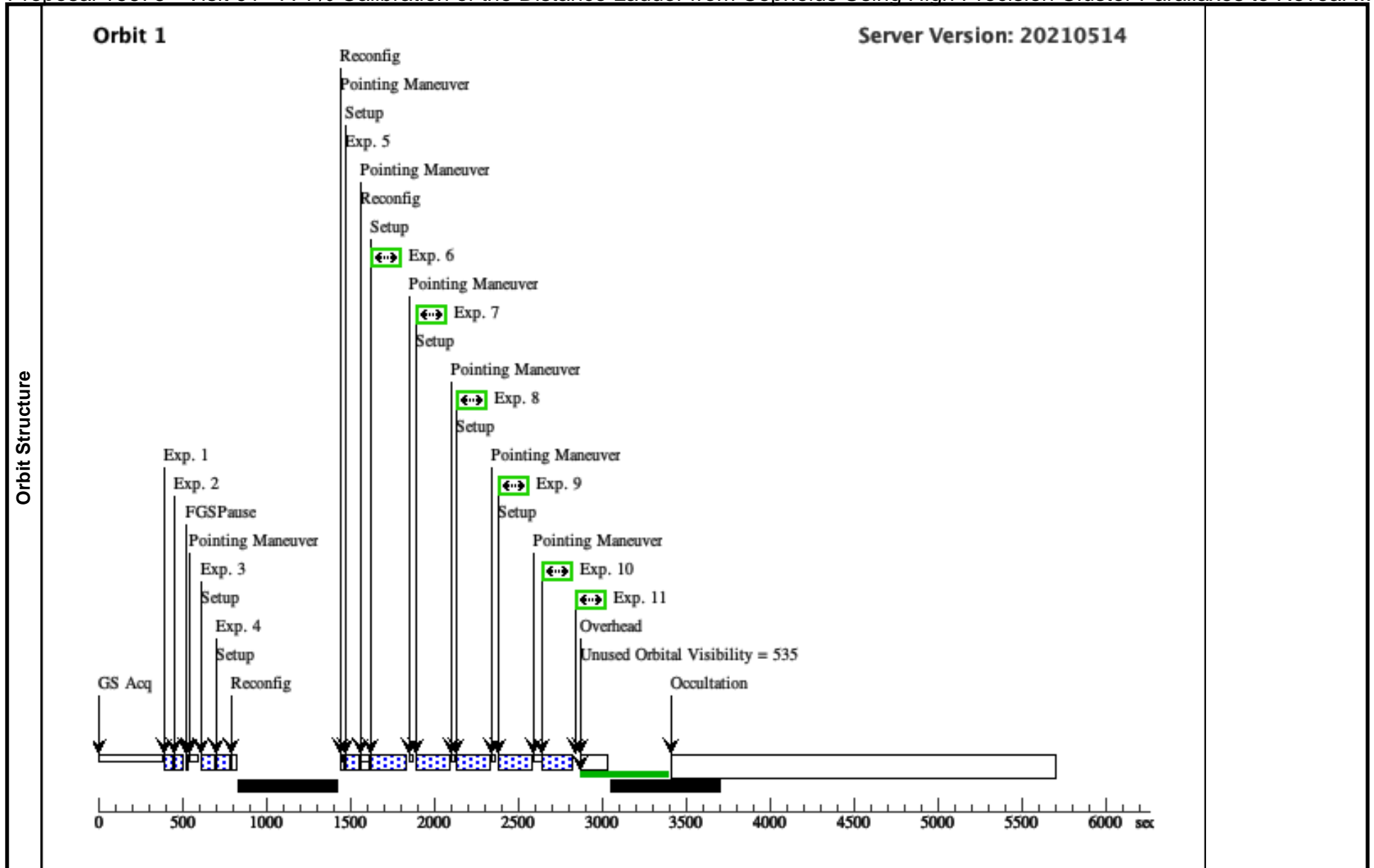
Proposal 16676 - Visit 01 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) V-CG-CAS	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 01	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
2		(1) V-CG-CAS	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 01	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
3		(1) V-CG-CAS	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 01	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
4		(1) V-CG-CAS	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 01	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field, reverse</i>									
5		(1) V-CG-CAS	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG -2,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 01	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
6		(1) V-CG-CAS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 0,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 01	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
7		(1) V-CG-CAS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 2,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 01	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									

Exposures

Proposal 16676 - Visit 01 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

8	(1) V-CG-CAS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 3,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 01	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
9	(1) V-CG-CAS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 0,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 01	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									
10	(1) V-CG-CAS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 01	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
11	(1) V-CG-CAS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 01	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									



Proposal 16676 - Visit 02 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

Wed Jan 19 12:00:35 GMT 2022

Visit	<p>Proposal 16676, Visit 02, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: (none)</p>																
Diagnostics	<p>(Exposure 6 (Sequence 1-11 Non-Int in Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 1-11 Non-Int in Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 1-11 Non-Int in Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 1-11 Non-Int in Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 1-11 Non-Int in Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 1-11 Non-Int in Visit 02)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																
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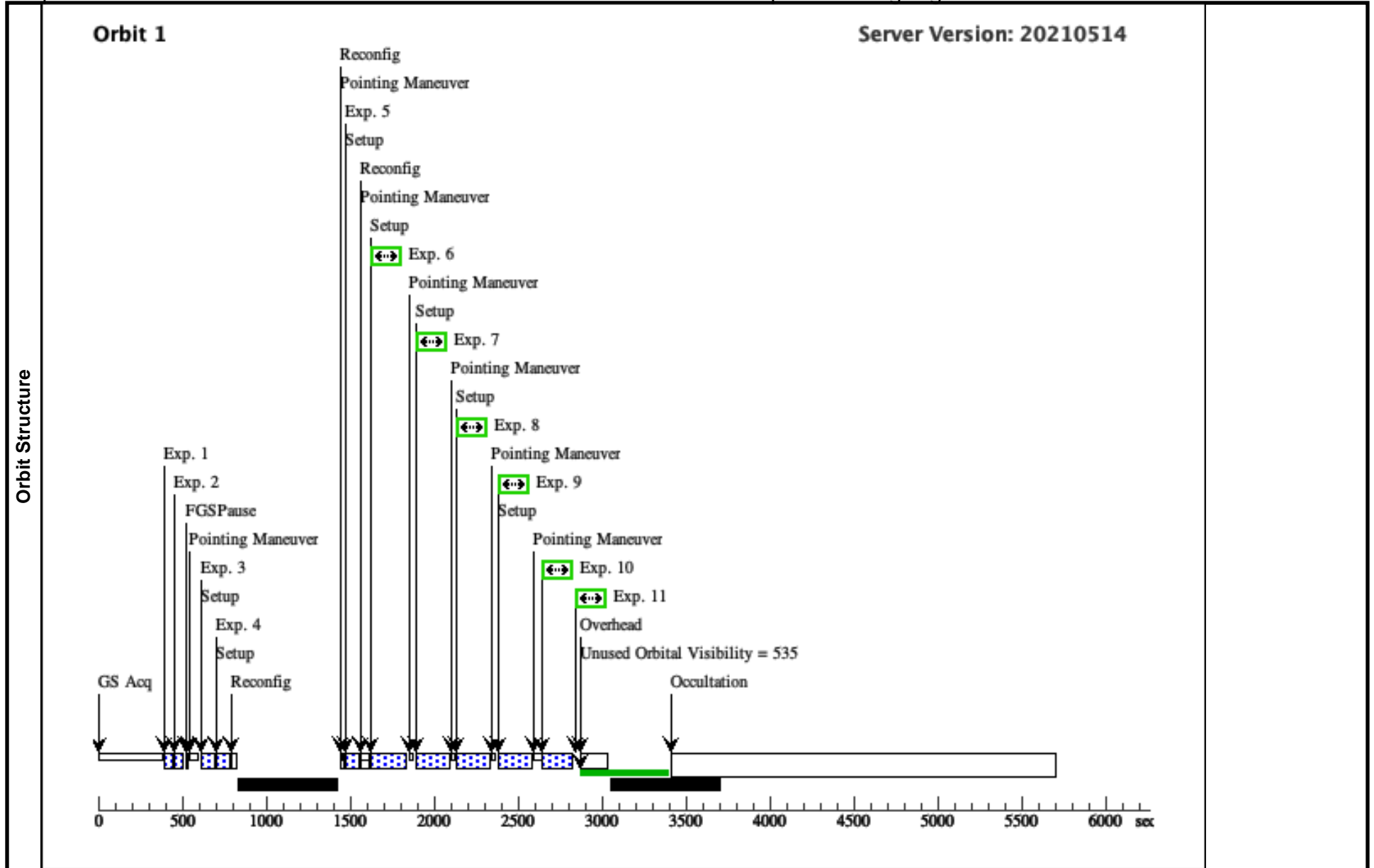
Proposal 16676 - Visit 02 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) V-CF-CAS	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 02	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
2		(2) V-CF-CAS	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 02	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
3		(2) V-CF-CAS	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 02	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
4		(2) V-CF-CAS	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 02	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field, reverse</i>									
5		(2) V-CF-CAS	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG -2,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 02	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
6		(2) V-CF-CAS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 0,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 02	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
7		(2) V-CF-CAS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 2,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 02	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									

Exposures

Proposal 16676 - Visit 02 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

8	(2) V-CF-CAS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 3,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 02	2.5 Secs (2.5 Secs)	[==>]	[1]
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10	(2) V-CF-CAS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 02	3 Secs (3 Secs)	[==>]	[1]
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11	(2) V-CF-CAS	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 02	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									



Proposal 16676 - Visit 03 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

Wed Jan 19 12:00:36 GMT 2022

Visit	<p>Proposal 16676, Visit 03, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: (none)</p>																
Diagnostics	<p>(Exposure 6 (Sequence 1-11 Non-Int in Visit 03)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 1-11 Non-Int in Visit 03)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 1-11 Non-Int in Visit 03)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 1-11 Non-Int in Visit 03)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 1-11 Non-Int in Visit 03)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 1-11 Non-Int in Visit 03)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																
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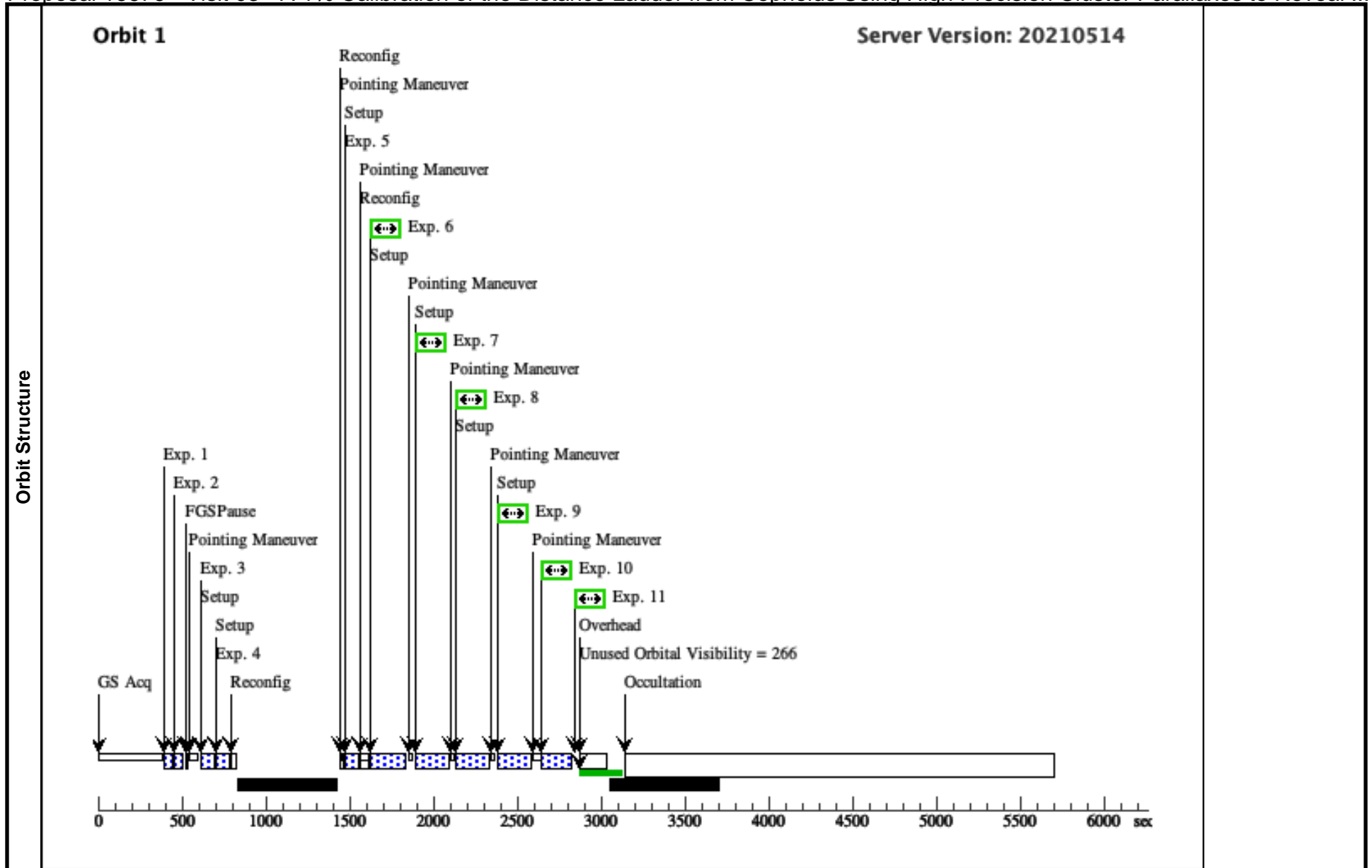
Proposal 16676 - Visit 03 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) V-CV-MON	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 03	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
2		(3) V-CV-MON	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 03	24.229711 Secs (24.23 Secs) [==>]	[1]
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3		(3) V-CV-MON	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 03	23.458328 Secs (23.458 Secs) [==>]	[1]
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4		(3) V-CV-MON	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 03	23.458328 Secs (23.458 Secs) [==>]	[1]
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5		(3) V-CV-MON	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG -2,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 03	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
6		(3) V-CV-MON	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 0,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 03	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
7		(3) V-CV-MON	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 2,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 03	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									

Exposures

Proposal 16676 - Visit 03 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

8	(3) V-CV-MON	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 3,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 03	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
9	(3) V-CV-MON	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 0,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 03	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									
10	(3) V-CV-MON	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 03	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
11	(3) V-CV-MON	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 03	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									



Proposal 16676 - Visit 04 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

Wed Jan 19 12:00:36 GMT 2022

Visit	<p>Proposal 16676, Visit 04, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: (none)</p>																
Diagnostics	<p>(Exposure 6 (Sequence 1-11 Non-Int in Visit 04)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 1-11 Non-Int in Visit 04)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 1-11 Non-Int in Visit 04)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 1-11 Non-Int in Visit 04)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 1-11 Non-Int in Visit 04)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 1-11 Non-Int in Visit 04)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>V-V-CEN</td> <td>RA: 14 32 33.0707 (218.1377946d) Dec: -56 53 15.88 (-56.88774d) Equinox: J2000</td> <td>Proper Motion RA: -7.809166077702525E-4 sec of time/yr Proper Motion Dec: -0.007031000063761894 arcsec/yr Epoch of Position: 2015.5</td> <td>V=6.93</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=EXT-STAR</p> <p>Description=[CEPHEID]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	V-V-CEN	RA: 14 32 33.0707 (218.1377946d) Dec: -56 53 15.88 (-56.88774d) Equinox: J2000	Proper Motion RA: -7.809166077702525E-4 sec of time/yr Proper Motion Dec: -0.007031000063761894 arcsec/yr Epoch of Position: 2015.5	V=6.93	Reference Frame: SIMBAD				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(4)	V-V-CEN	RA: 14 32 33.0707 (218.1377946d) Dec: -56 53 15.88 (-56.88774d) Equinox: J2000	Proper Motion RA: -7.809166077702525E-4 sec of time/yr Proper Motion Dec: -0.007031000063761894 arcsec/yr Epoch of Position: 2015.5	V=6.93	Reference Frame: SIMBAD												

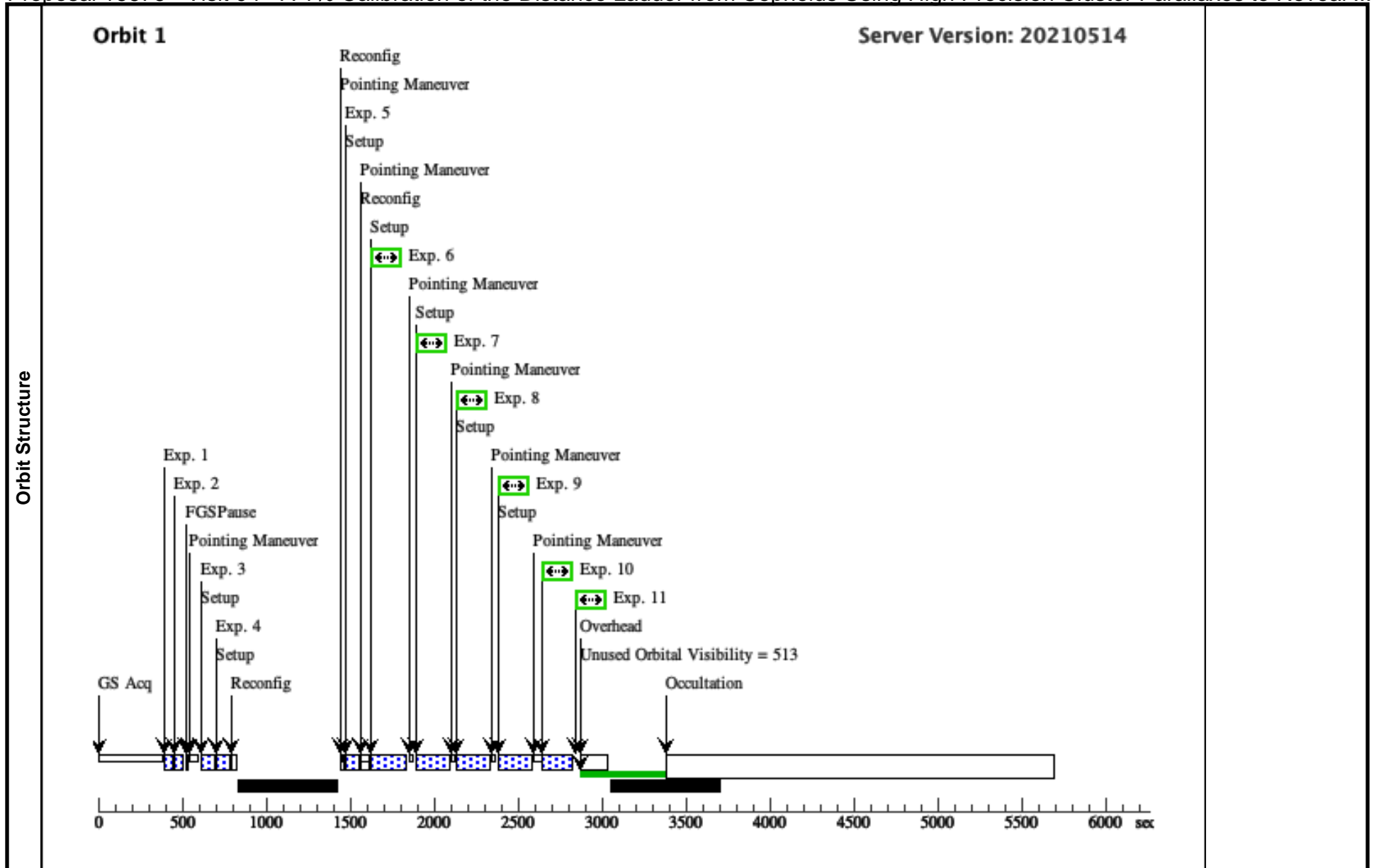
Proposal 16676 - Visit 04 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) V-V-CEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 04	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
2		(4) V-V-CEN	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 04	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
3		(4) V-V-CEN	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 04	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
4		(4) V-V-CEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 04	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field, reverse</i>									
5		(4) V-V-CEN	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG -2,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 04	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
6		(4) V-V-CEN	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 0,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 04	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
7		(4) V-V-CEN	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 2,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 04	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									

Exposures

Proposal 16676 - Visit 04 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

8	(4) V-V-CEN	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 3,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 04	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
9	(4) V-V-CEN	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 0,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 04	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									
10	(4) V-V-CEN	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 04	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
11	(4) V-V-CEN	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 04	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									



Proposal 16676 - Visit 05 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

Wed Jan 19 12:00:36 GMT 2022

Visit	<p>Proposal 16676, Visit 05, scheduled</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: (none)</p>					
Diagnostics	<p>(Exposure 6 (Sequence 1-11 Non-Int in Visit 05)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 1-11 Non-Int in Visit 05)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 1-11 Non-Int in Visit 05)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 1-11 Non-Int in Visit 05)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 1-11 Non-Int in Visit 05)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 1-11 Non-Int in Visit 05)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	V-CS-VEL	RA: 09 41 10.2530 (145.2927208d) Dec: -53 48 57.74 (-53.81604d) Equinox: J2000	Proper Motion RA: -5.16390780115282E-4 sec of time/yr Proper Motion Dec: 0.00296 arcsec/yr Epoch of Position: 2015.5	V=11.24	Reference Frame: SIMBAD
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=EXT-STAR</i></p> <p><i>Description=[CEPHEID]</i></p>					

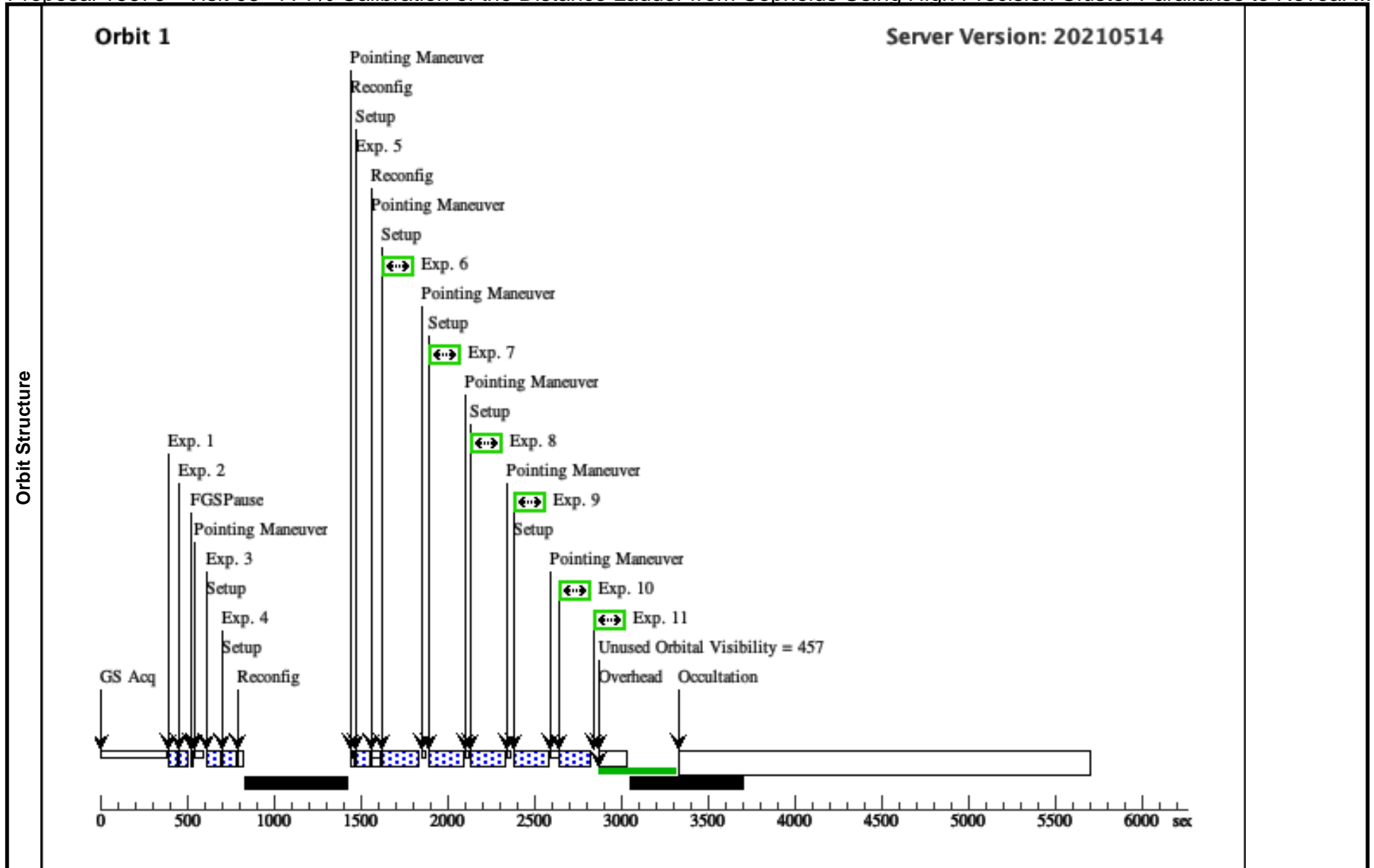
Proposal 16676 - Visit 05 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(5) V-CS-VEL	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 05	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
2		(5) V-CS-VEL	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 05	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
3		(5) V-CS-VEL	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 05	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
4		(5) V-CS-VEL	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 05	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field, reverse</i>									
5		(5) V-CS-VEL	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG -2,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 05	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
6		(5) V-CS-VEL	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 0,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 05	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
7		(5) V-CS-VEL	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 2,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 05	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									

Exposures

Proposal 16676 - Visit 05 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

8	(5) V-CS-VEL	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 3,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 05	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
9	(5) V-CS-VEL	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 0,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 05	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									
10	(5) V-CS-VEL	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 05	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
11	(5) V-CS-VEL	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 05	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									



Proposal 16676 - Visit 06 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

Wed Jan 19 12:00:36 GMT 2022

Visit	Proposal 16676, Visit 06, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
Diagnostics	(Exposure 6 (Sequence 1-11 Non-Int in Visit 06)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 7 (Sequence 1-11 Non-Int in Visit 06)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 8 (Sequence 1-11 Non-Int in Visit 06)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 9 (Sequence 1-11 Non-Int in Visit 06)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 10 (Sequence 1-11 Non-Int in Visit 06)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 11 (Sequence 1-11 Non-Int in Visit 06)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	V-V367-SCT	RA: 18 33 35.2354 (278.3968142d) Dec: -10 25 38.13 (-10.42726d) Equinox: J2000	Proper Motion RA: 4.47388405839355E-6 sec of time/yr Proper Motion Dec: -1.9999924916191958E-5 arcsec/yr Epoch of Position: 2015.5	V=11.58	Reference Frame: SIMBAD
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[CEPHEID]					

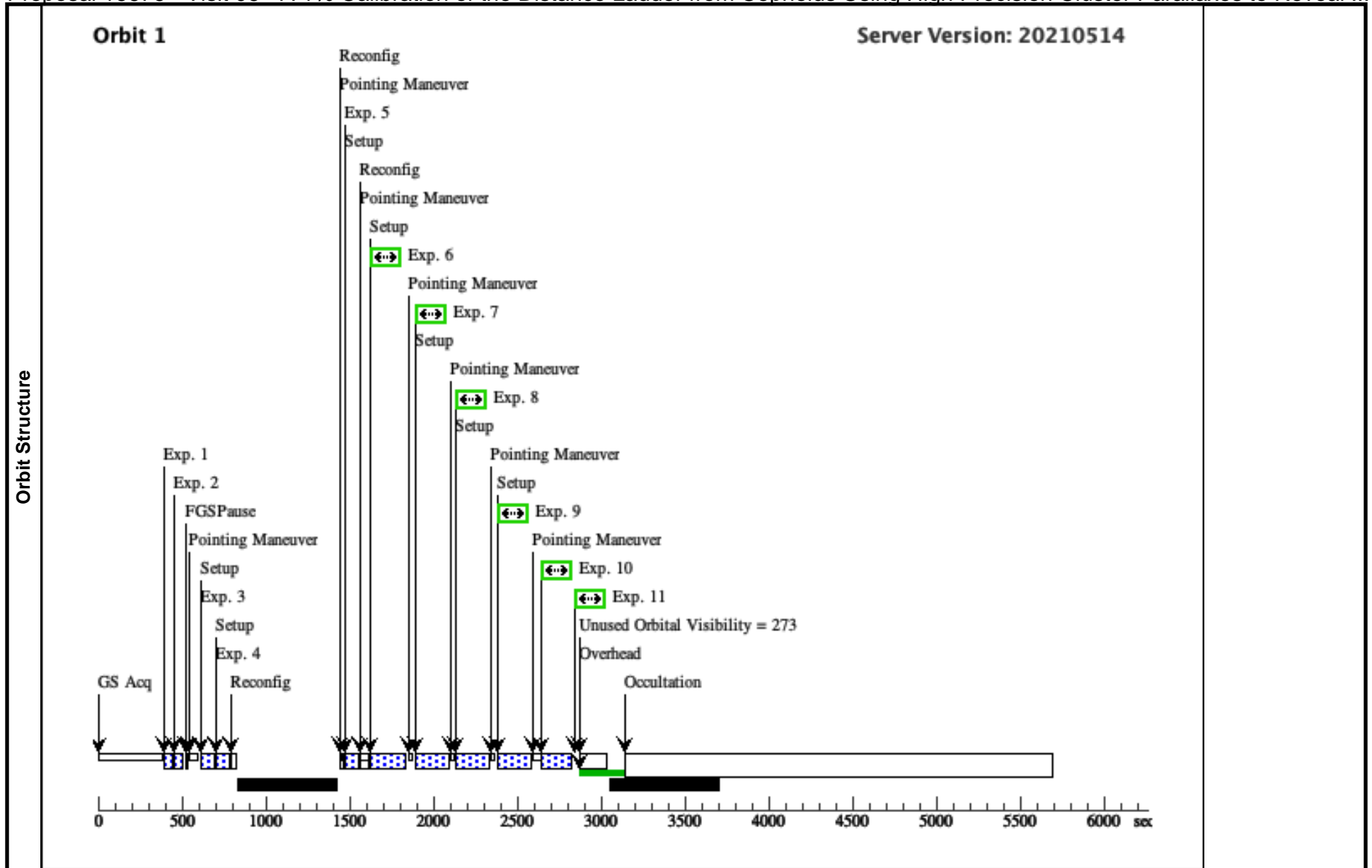
Proposal 16676 - Visit 06 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) V-V367-SCT	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 06	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
2		(6) V-V367-SCT	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 06	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
3		(6) V-V367-SCT	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 06	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
4		(6) V-V367-SCT	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 06	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field, reverse</i>									
5		(6) V-V367-SCT	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG -2,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 06	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
6		(6) V-V367-SCT	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 0,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 06	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
7		(6) V-V367-SCT	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 2,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 06	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									

Exposures

Proposal 16676 - Visit 06 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

8	(6) V-V367-SCT	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 3,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 06	2.5 Secs (2.5 Secs)	
							[==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>								
9	(6) V-V367-SCT	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 0,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 06	2.5 Secs (2.5 Secs)	
							[==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>								
10	(6) V-V367-SCT	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 06	3 Secs (3 Secs)	
							[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>								
11	(6) V-V367-SCT	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 06	3 Secs (3 Secs)	
							[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>								



Proposal 16676 - Visit 07 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

Wed Jan 19 12:00:36 GMT 2022

Visit	<p>Proposal 16676, Visit 07, failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: (none)</p>																
Diagnostics	<p>(Exposure 6 (Sequence 1-11 Non-Int in Visit 07)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 1-11 Non-Int in Visit 07)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 1-11 Non-Int in Visit 07)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 1-11 Non-Int in Visit 07)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 1-11 Non-Int in Visit 07)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 1-11 Non-Int in Visit 07)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(7)</td> <td>V-RS-ORI</td> <td>RA: 06 22 13.1929 (95.5549704d) Dec: +14 40 41.26 (14.67813d) Equinox: J2000</td> <td>Proper Motion RA: 9.02796496264171E-6 sec of time/yr Proper Motion Dec: 1.29E-4 arcsec/yr Epoch of Position: 2015.5</td> <td>V=8.42</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=EXT-STAR</p> <p>Description=[CEPHEID]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(7)	V-RS-ORI	RA: 06 22 13.1929 (95.5549704d) Dec: +14 40 41.26 (14.67813d) Equinox: J2000	Proper Motion RA: 9.02796496264171E-6 sec of time/yr Proper Motion Dec: 1.29E-4 arcsec/yr Epoch of Position: 2015.5	V=8.42	Reference Frame: SIMBAD				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(7)	V-RS-ORI	RA: 06 22 13.1929 (95.5549704d) Dec: +14 40 41.26 (14.67813d) Equinox: J2000	Proper Motion RA: 9.02796496264171E-6 sec of time/yr Proper Motion Dec: 1.29E-4 arcsec/yr Epoch of Position: 2015.5	V=8.42	Reference Frame: SIMBAD												

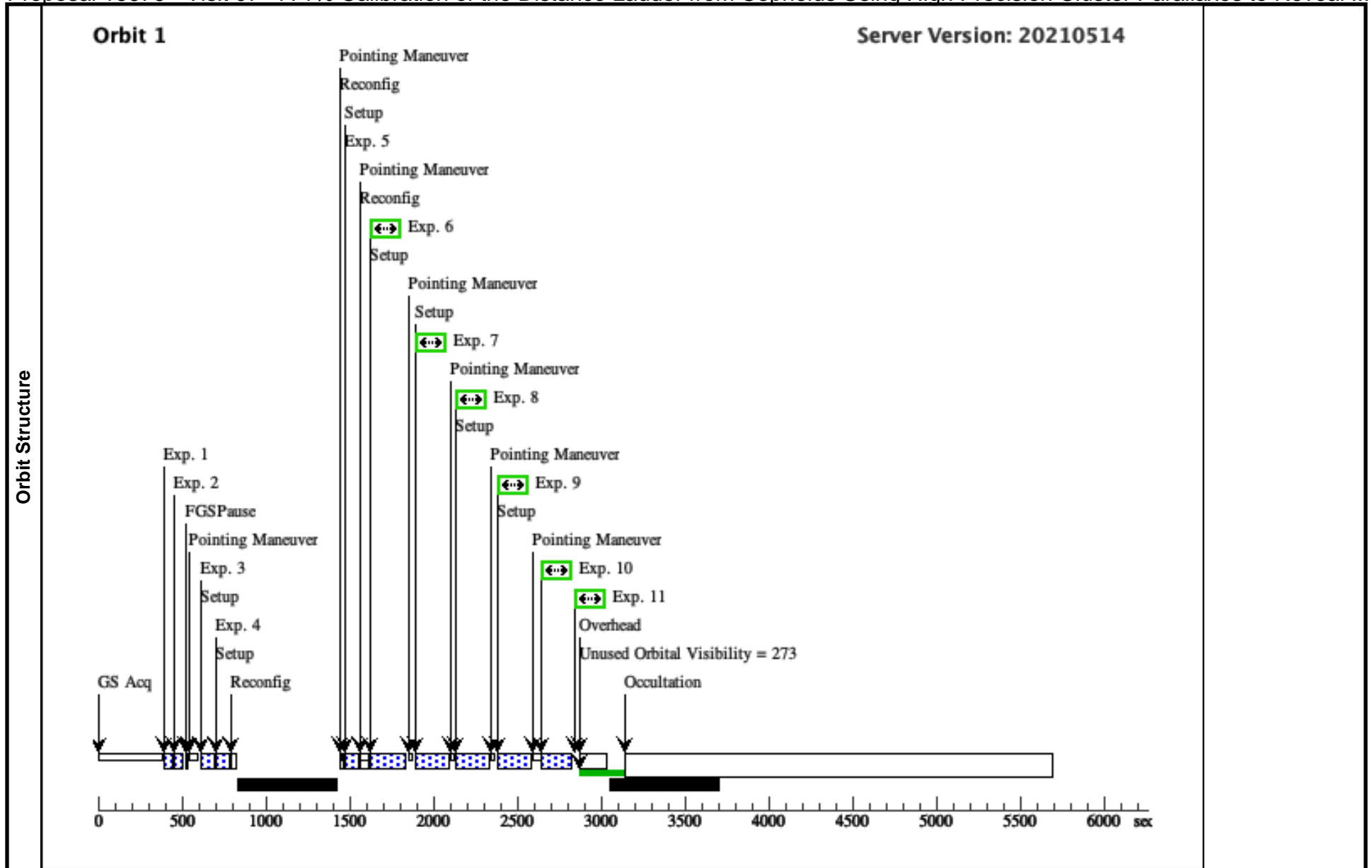
Proposal 16676 - Visit 07 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(7) V-RS-ORI	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 07	24.229711 Secs (24.23 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
2	(7) V-RS-ORI	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 07	24.229711 Secs (24.23 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
3	(7) V-RS-ORI	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 07	23.458328 Secs (23.458 Secs)	[==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
4	(7) V-RS-ORI	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 07	23.458328 Secs (23.458 Secs)	[==>]	[1]
<i>Comments: IR scan, Cepheid moves across field, reverse</i>									
5	(7) V-RS-ORI	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG -2,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 07	23.458328 Secs (23.458 Secs)	[==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
6	(7) V-RS-ORI	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 0,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 07	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
7	(7) V-RS-ORI	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 2,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 07	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									

Exposures

Proposal 16676 - Visit 07 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

8	(7) V-RS-ORI	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 3,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 07	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
9	(7) V-RS-ORI	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 0,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 07	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									
10	(7) V-RS-ORI	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 07	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
11	(7) V-RS-ORI	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 07	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									



Proposal 16676 - Visit 57 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

Wed Jan 19 12:00:36 GMT 2022

Visit	<p>Proposal 16676, Visit 57, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: (none)</p> <p><i>Comments: HOPR repeat of visit 07.</i></p>																
Diagnostics	<p>(Exposure 6 (Sequence 1-11 Non-Int in Visit 57)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 1-11 Non-Int in Visit 57)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 1-11 Non-Int in Visit 57)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 1-11 Non-Int in Visit 57)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 1-11 Non-Int in Visit 57)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 1-11 Non-Int in Visit 57)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(7)</td> <td>V-RS-ORI</td> <td>RA: 06 22 13.1929 (95.5549704d) Dec: +14 40 41.26 (14.67813d) Equinox: J2000</td> <td>Proper Motion RA: 9.02796496264171E-6 sec of time/yr Proper Motion Dec: 1.29E-4 arcsec/yr Epoch of Position: 2015.5</td> <td>V=8.42</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=EXT-STAR</p> <p>Description=[CEPHEID]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(7)	V-RS-ORI	RA: 06 22 13.1929 (95.5549704d) Dec: +14 40 41.26 (14.67813d) Equinox: J2000	Proper Motion RA: 9.02796496264171E-6 sec of time/yr Proper Motion Dec: 1.29E-4 arcsec/yr Epoch of Position: 2015.5	V=8.42	Reference Frame: SIMBAD				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(7)	V-RS-ORI	RA: 06 22 13.1929 (95.5549704d) Dec: +14 40 41.26 (14.67813d) Equinox: J2000	Proper Motion RA: 9.02796496264171E-6 sec of time/yr Proper Motion Dec: 1.29E-4 arcsec/yr Epoch of Position: 2015.5	V=8.42	Reference Frame: SIMBAD												

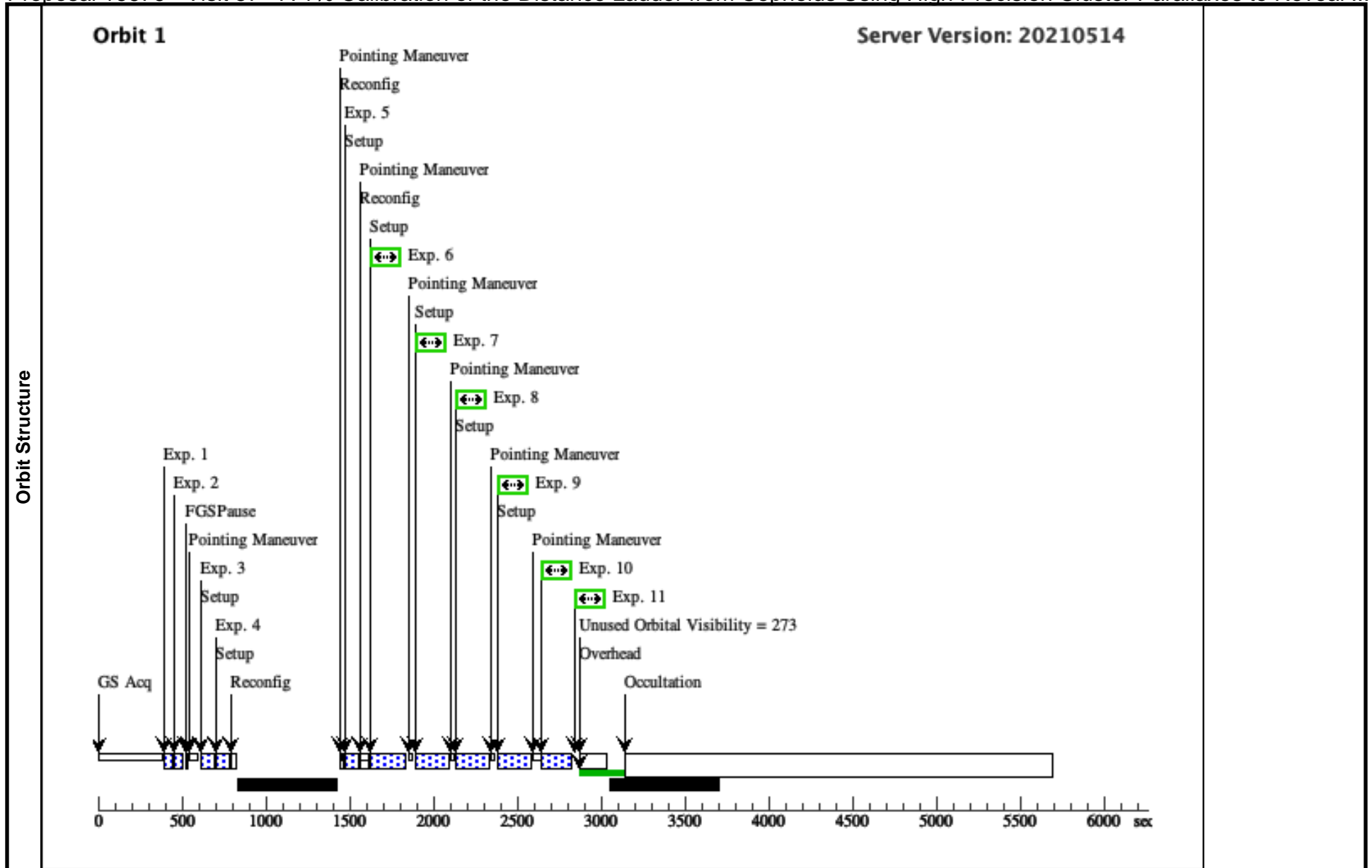
Proposal 16676 - Visit 57 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(7) V-RS-ORI	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 57	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
2		(7) V-RS-ORI	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 57	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
3		(7) V-RS-ORI	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 57	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
4		(7) V-RS-ORI	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 57	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field, reverse</i>									
5		(7) V-RS-ORI	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG -2,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 57	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
6		(7) V-RS-ORI	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 0,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 57	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
7		(7) V-RS-ORI	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 2,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 57	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									

Exposures

Proposal 16676 - Visit 57 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

8	(7) V-RS-ORI	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 3,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 57	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
9	(7) V-RS-ORI	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 0,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 57	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									
10	(7) V-RS-ORI	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 57	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
11	(7) V-RS-ORI	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 57	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									



Proposal 16676 - Visit 08 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

Wed Jan 19 12:00:36 GMT 2022

Visit	<p>Proposal 16676, Visit 08, pi</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: (none)</p> <p><i>Comments: swapped target for S Nor, taken off hold</i></p>																
Diagnostics	<p>(Exposure 6 (Sequence 1-11 Non-Int in Visit 08)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 1-11 Non-Int in Visit 08)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 1-11 Non-Int in Visit 08)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 1-11 Non-Int in Visit 08)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 1-11 Non-Int in Visit 08)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 1-11 Non-Int in Visit 08)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(11)</td> <td>V-X-VUL</td> <td>RA: 19 57 28.6039 (299.3691829d) Dec: +26 33 23.22 (26.55645d) Equinox: J2000</td> <td>Proper Motion RA: -1.0575807819351961E-4 sec of time/yr Proper Motion Dec: -0.004042999944431358 arcsec/yr Epoch of Position: 2015.5</td> <td>V=8.87</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[CEPHEID]</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(11)	V-X-VUL	RA: 19 57 28.6039 (299.3691829d) Dec: +26 33 23.22 (26.55645d) Equinox: J2000	Proper Motion RA: -1.0575807819351961E-4 sec of time/yr Proper Motion Dec: -0.004042999944431358 arcsec/yr Epoch of Position: 2015.5	V=8.87	Reference Frame: SIMBAD				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(11)	V-X-VUL	RA: 19 57 28.6039 (299.3691829d) Dec: +26 33 23.22 (26.55645d) Equinox: J2000	Proper Motion RA: -1.0575807819351961E-4 sec of time/yr Proper Motion Dec: -0.004042999944431358 arcsec/yr Epoch of Position: 2015.5	V=8.87	Reference Frame: SIMBAD												

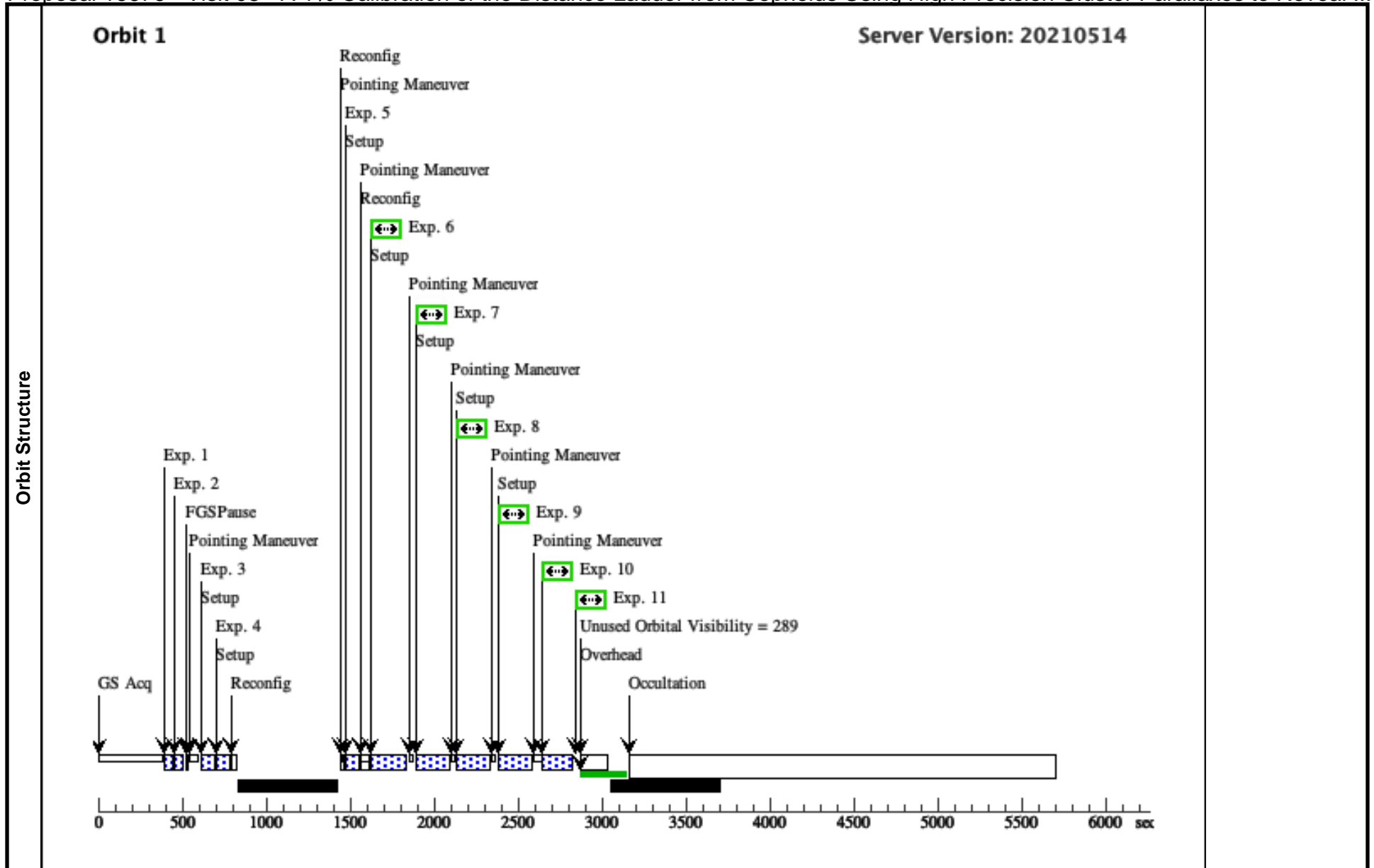
Proposal 16676 - Visit 08 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(11) V-X-VUL	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 08	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
2		(11) V-X-VUL	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 08	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
3		(11) V-X-VUL	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 08	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
4		(11) V-X-VUL	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 08	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field, reverse</i>									
5		(11) V-X-VUL	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG -2,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 08	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
6		(11) V-X-VUL	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 0,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 08	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
7		(11) V-X-VUL	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 2,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 08	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									

Exposures

Proposal 16676 - Visit 08 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

8	(11) V-X-VUL	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 3,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 08	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
9	(11) V-X-VUL	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 0,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 08	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									
10	(11) V-X-VUL	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 08	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
11	(11) V-X-VUL	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 08	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									



Proposal 16676 - Visit 09 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

Wed Jan 19 12:00:36 GMT 2022

Visit	<p>Proposal 16676, Visit 09, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: (none)</p>					
Diagnostics	<p>(Exposure 6 (Sequence 1-11 Non-Int in Visit 09)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 7 (Sequence 1-11 Non-Int in Visit 09)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 8 (Sequence 1-11 Non-Int in Visit 09)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 9 (Sequence 1-11 Non-Int in Visit 09)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 10 (Sequence 1-11 Non-Int in Visit 09)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 11 (Sequence 1-11 Non-Int in Visit 09)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	V-TW-NOR	RA: 16 04 55.2230 (241.2300958d) Dec: -51 57 12.70 (-51.95353d) Equinox: J2000	Proper Motion RA: -2.373301367852644E-4 sec of time/yr Proper Motion Dec: - 0.0028350001002763747 arcsec/yr Epoch of Position: 2015.5	V=11.17	Reference Frame: SIMBAD
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Category=EXT-STAR</p> <p>Description=[CEPHEID]</p>					

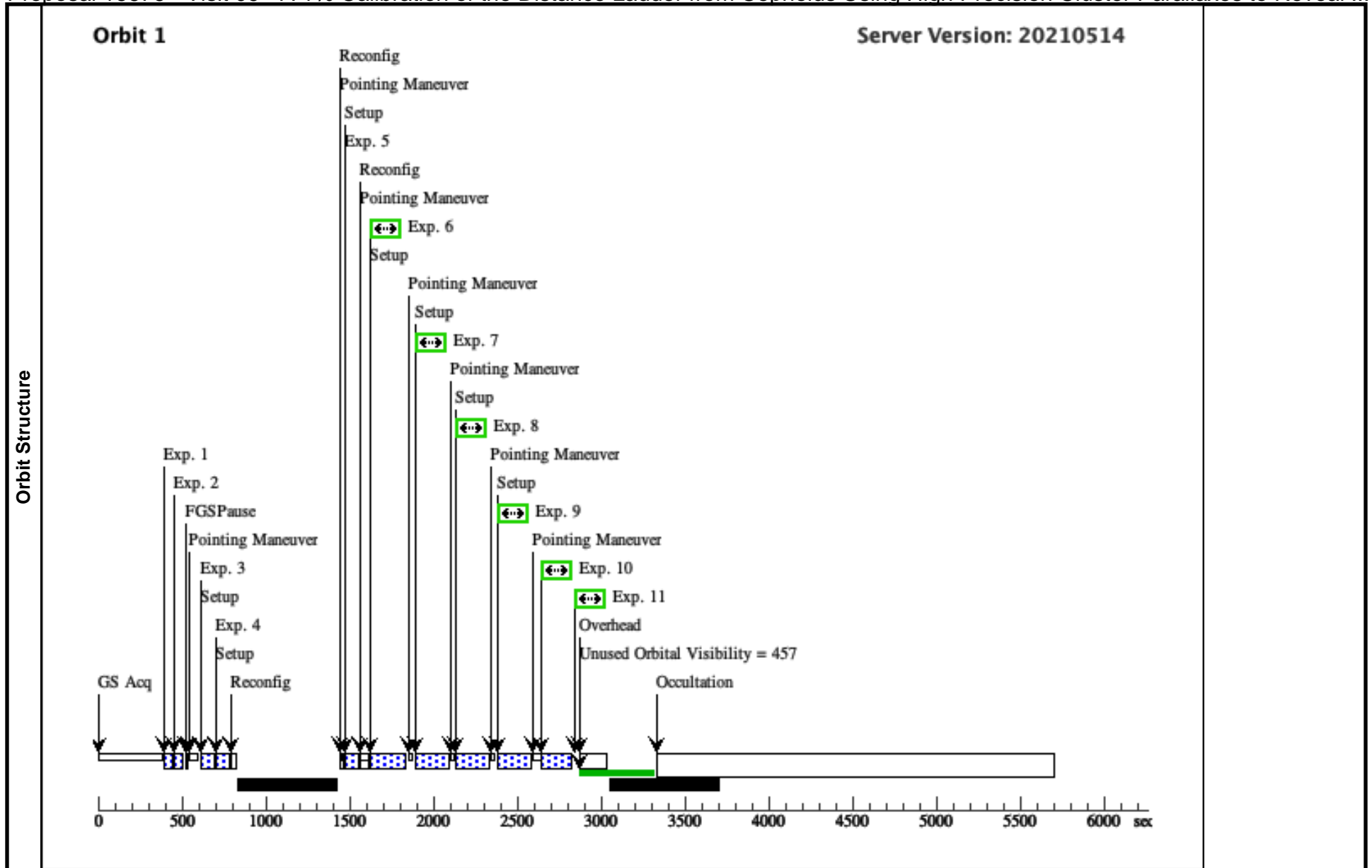
Proposal 16676 - Visit 09 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(9) V-TW-NOR	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 09	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
2		(9) V-TW-NOR	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 09	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
3		(9) V-TW-NOR	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 09	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
4		(9) V-TW-NOR	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 09	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field, reverse</i>									
5		(9) V-TW-NOR	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG -2,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 09	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
6		(9) V-TW-NOR	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 0,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 09	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
7		(9) V-TW-NOR	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 2,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 09	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									

Exposures

Proposal 16676 - Visit 09 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

8	(9) V-TW-NOR	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 3,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 09	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
9	(9) V-TW-NOR	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 0,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 09	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									
10	(9) V-TW-NOR	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 09	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
11	(9) V-TW-NOR	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 09	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									



Proposal 16676 - Visit 10 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

Wed Jan 19 12:00:36 GMT 2022

Visit	Proposal 16676, Visit 10, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)												
Diagnostics	(Exposure 6 (Sequence 1-11 Non-Int in Visit 10)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 7 (Sequence 1-11 Non-Int in Visit 10)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 8 (Sequence 1-11 Non-Int in Visit 10)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 9 (Sequence 1-11 Non-Int in Visit 10)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 10 (Sequence 1-11 Non-Int in Visit 10)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 11 (Sequence 1-11 Non-Int in Visit 10)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser												
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(10)</td> <td>V-V340-NOR</td> <td>RA: 16 13 17.3961 (243.3224837d) Dec: -54 14 5.63 (-54.23490d) Equinox: J2000</td> <td>Proper Motion RA: -2.3942181822806356E-4 sec of time/yr Proper Motion Dec: -0.002512999958526052 arcsec/yr Epoch of Position: 2015.5</td> <td>V=8.47</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[CEPHEID]</p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(10)	V-V340-NOR	RA: 16 13 17.3961 (243.3224837d) Dec: -54 14 5.63 (-54.23490d) Equinox: J2000	Proper Motion RA: -2.3942181822806356E-4 sec of time/yr Proper Motion Dec: -0.002512999958526052 arcsec/yr Epoch of Position: 2015.5	V=8.47	Reference Frame: SIMBAD
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(10)	V-V340-NOR	RA: 16 13 17.3961 (243.3224837d) Dec: -54 14 5.63 (-54.23490d) Equinox: J2000	Proper Motion RA: -2.3942181822806356E-4 sec of time/yr Proper Motion Dec: -0.002512999958526052 arcsec/yr Epoch of Position: 2015.5	V=8.47	Reference Frame: SIMBAD								

Proposal 16676 - Visit 10 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(10) V-V340-NOR	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 10	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
2		(10) V-V340-NOR	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=STEP1 00; NSAMP=5		Sequence 1-11 Non-Int in Visit 10	24.229711 Secs (24.23 Secs) [==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
3		(10) V-V340-NOR	WFC3/IR, MULTIACCUM, IR	F153M	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 10	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
4		(10) V-V340-NOR	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG 0,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 10	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field, reverse</i>									
5		(10) V-V340-NOR	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=RAPID ; NSAMP=8	POS TARG -2,-120; SPATIAL SCAN 7.8 ,90.0 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 10	23.458328 Secs (23.458 Secs) [==>]	[1]
<i>Comments: IR scan, Cepheid moves across field</i>									
6		(10) V-V340-NOR	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 0,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 10	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
7		(10) V-V340-NOR	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	POS TARG 2,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 10	2.5 Secs (2.5 Secs) [==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									

Exposures

Proposal 16676 - Visit 10 - A 1% Calibration of the Distance Ladder from Cepheids Using High Precision Cluster Parallaxes to Reveal ...

8	(10) V-V340-NOR	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 3,-32; SPATIAL SCAN 7.8 ,90.05 Degrees,Reverse; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 10	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame,reverse</i>									
9	(10) V-V340-NOR	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	POS TARG 0,-13; SPATIAL SCAN 7.8 ,90.05 Degrees,Forward; EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 10	2.5 Secs (2.5 Secs)	[==>]	[1]
<i>Comments: scan, keep Cepheid within frame</i>									
10	(10) V-V340-NOR	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F555W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 10	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									
11	(10) V-V340-NOR	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F814W	FLASH=12; BLADE=A	EXP PCS MODE G YRO	Sequence 1-11 Non-Int in Visit 10	3 Secs (3 Secs)	[==>]	[1]
<i>Comments: Direct image to compare to amplitude of scan for zeropoint</i>									

