



16380 - ACS External CTE Monitor

Cycle: 28, Proposal Category: CAL/ACS

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Marco Chiaberge (PI) (ESA Member) (Contact)	Space Telescope Science Institute - ESA	marcoc@stsci.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	(1) NGC104	ACS/WFC	3	30-Jun-2021 16:01:37.0	yes
02	(1) NGC104	ACS/WFC	2	30-Jun-2021 16:01:39.0	yes
03	(1) NGC104	ACS/WFC	2	30-Jun-2021 16:01:40.0	yes
04	(2) NGC104-F502N	ACS/WFC	1	30-Jun-2021 16:01:41.0	yes
54	(5) NGC-5139	ACS/WFC	1	30-Jun-2021 16:01:41.0	yes
55	(4) OMEGACEN-OFF	ACS/WFC	3	30-Jun-2021 16:01:43.0	yes
56	(4) OMEGACEN-OFF	ACS/WFC	2	30-Jun-2021 16:01:44.0	yes
57	(4) OMEGACEN-OFF	ACS/WFC	2	30-Jun-2021 16:01:45.0	yes

16 Total Orbits Used

ABSTRACT

This program will obtain a direct calibration of photometric losses due to imperfect CTE by imaging stars in 47 Tuc

OBSERVING DESCRIPTION

For each pointing we will obtain 2 CR-SPLITS to allow cosmic ray rejection and provide a set of clean stars for the analysis of CTE effects on photometry. More specifically, since the CTE also depends on the background level, we will obtain 5 different background levels, using the F502N and F606W filters and different exposure times, from 30s to 400s per exposure. In this way, we will obtain background levels ranging from ~ 0 to ~ 50 e-/pixel. Thus the total number of exposures is 5 (bkg levels) $\times 2$ (CR-SPLIT) $\times 3$ (positions on the sky) = 30 . Since it is crucial to obtain an almost constant sky level, we will request low sky. Four to five images can be done each orbit so the total orbit request is 8 orbit. One field located closer to the nucleus of the cluster ($\sim 2'$ off-center) will also be imaged with the same technique. A series of short (30s) exposures will be taken with F502N in order to obtain a larger number of stars in the field of view. This will allow us to better characterize the effects of CTE for extremely low background values.

Proposal 16380 - Visit 01 - ACS External CTE Monitor

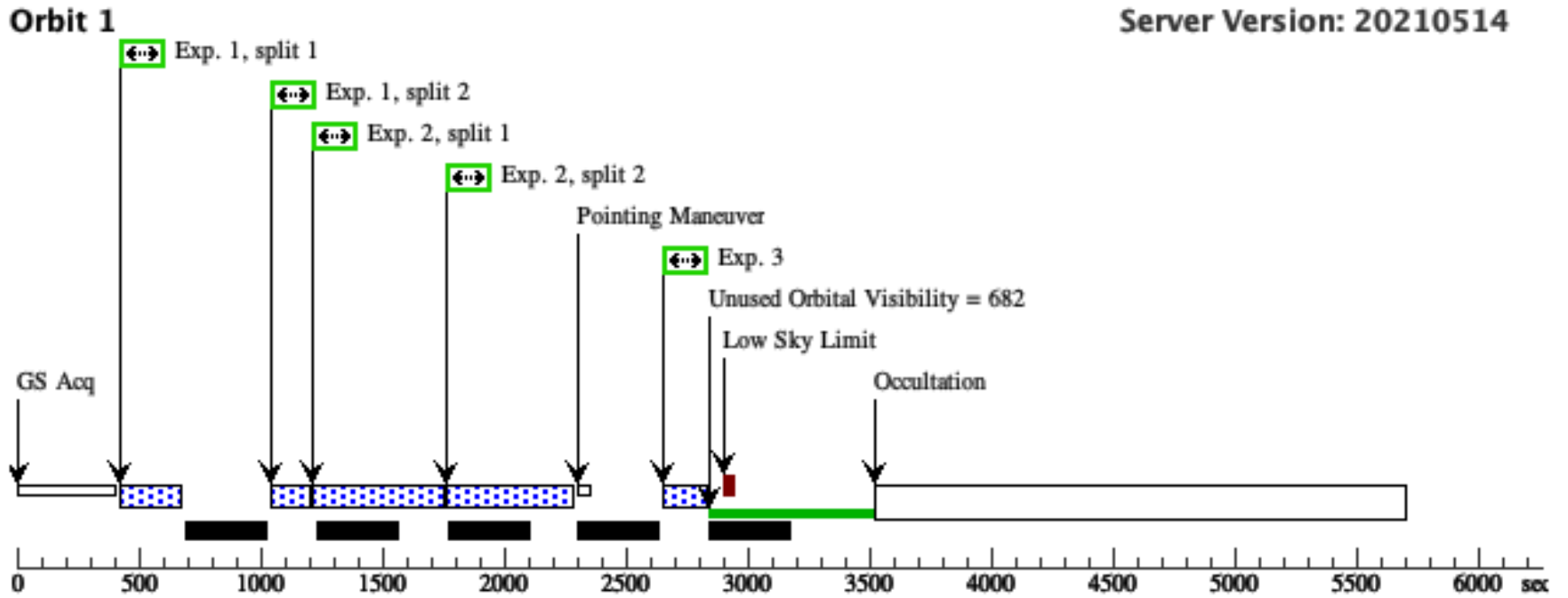
Wed Jun 30 20:01:46 GMT 2021

Visit	<p>Proposal 16380, Visit 01, failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: BETWEEN 01-APR-2021:00:00:00 AND 15-SEP-2021:00:00:00; SEQ 01,02,03,04 WITHIN 2 D</p> <p><i>Comments: USE SINGLE GUIDE STAR IF NECESSARY.VISIT SHOULD USE CONTIGUOUS ORBITS DO NO BREAK ORBITS</i></p>																	
	<p>(Visit 01) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Visit 01) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Visit 01) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING</p> <p>(Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p> <p>(Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p> <p>(Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p> <p>(Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE</p>																	
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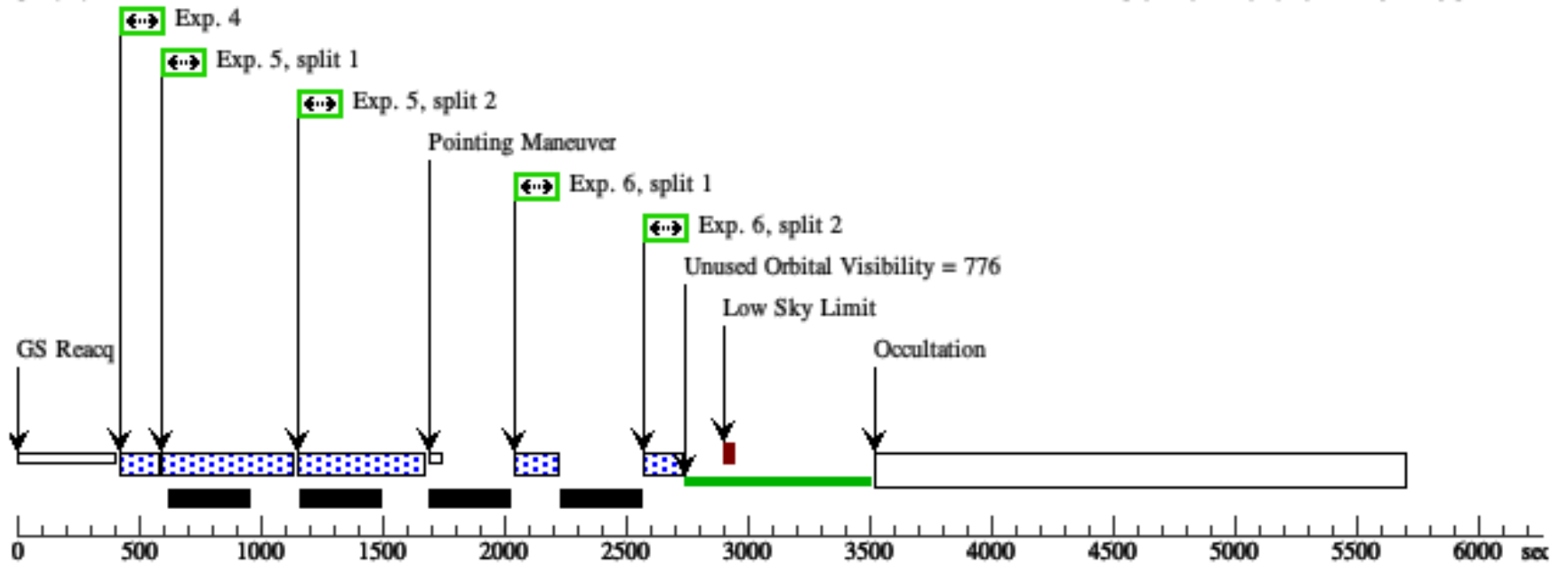
Proposal 16380 - Visit 01 - ACS External CTE Monitor

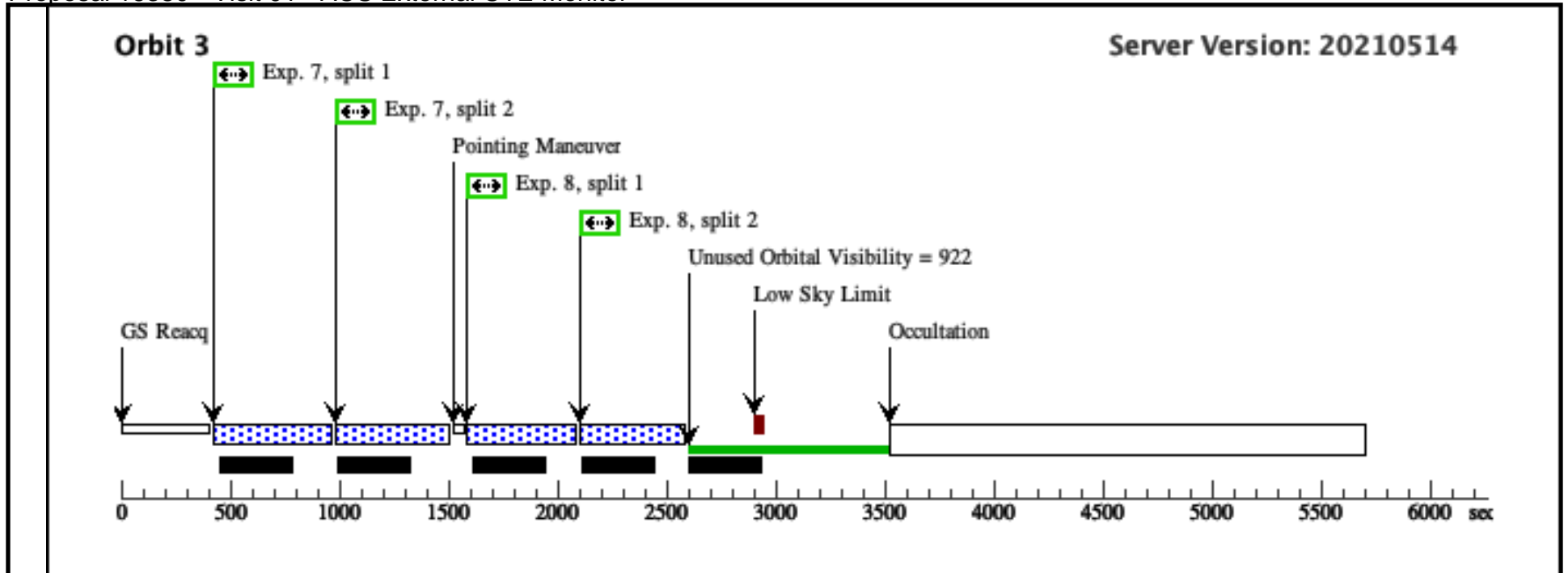
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	1	(1) NGC104	ACS/WFC, ACCUM, WFC	F502N	CR-SPLIT=2	POS TARG 101.17,8 .19; LOW-SKY; GS ACQ SCENARI O BASE1B3	Same Obset in Visit 01 Sequence 1-3 Non-Int in Same Obset in Visit 01	60.0 Secs (60 Secs) [==>(Split 1)] [==>(Split 2)]	[1]	
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	3	(1) NGC104	ACS/WFC, ACCUM, WFC	F502N	CR-SPLIT=NO	POS TARG 0.0,0.0; LOW-SKY	Same Obset in Visit 01 Sequence 1-3 Non-Int in Same Obset in Visit 01	30.0 Secs (30 Secs) [==>]	[1]	
	4	(1) NGC104	ACS/WFC, ACCUM, WFC	F502N	CR-SPLIT=NO	POS TARG 0.0,0.0; LOW-SKY	Same Obset in Visit 01 Sequence 4-6 Non-Int in Same Obset in Visit 01	30.0 Secs (30 Secs) [==>]	[2]	
	5	(1) NGC104	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=2	POS TARG 0.0,0.0; LOW-SKY	Same Obset in Visit 01 Sequence 4-6 Non-Int in Same Obset in Visit 01	800.0 Secs (800 Secs) [==>(Split 1)] [==>(Split 2)]	[2]	
	6	(1) NGC104	ACS/WFC, ACCUM, WFC	F502N	CR-SPLIT=2	POS TARG 0.0,103.64; LOW-SKY	Same Obset in Visit 01 Sequence 4-6 Non-Int in Same Obset in Visit 01	60.0 Secs (60 Secs) [==>(Split 1)] [==>(Split 2)]	[2]	
	7	(1) NGC104	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=2	POS TARG 0.0,103.64; LOW-SKY	Same Obset in Visit 01 Sequence 7-7 Non-Int in Same Obset in Visit 01	800.0 Secs (800 Secs) [==>(Split 1)] [==>(Split 2)]	[3]	
	8	(1) NGC104	ACS/WFC, ACCUM, WFC	F502N	CR-SPLIT=2	POS TARG 101.17,8 .19; LOW-SKY	Same Obset in Visit 01 Sequence 8-8 Non-Int in Same Obset in Visit 01	720.0 Secs (720 Secs) [==>(Split 1)] [==>(Split 2)]	[3]	

Orbit Structure



Orbit 2

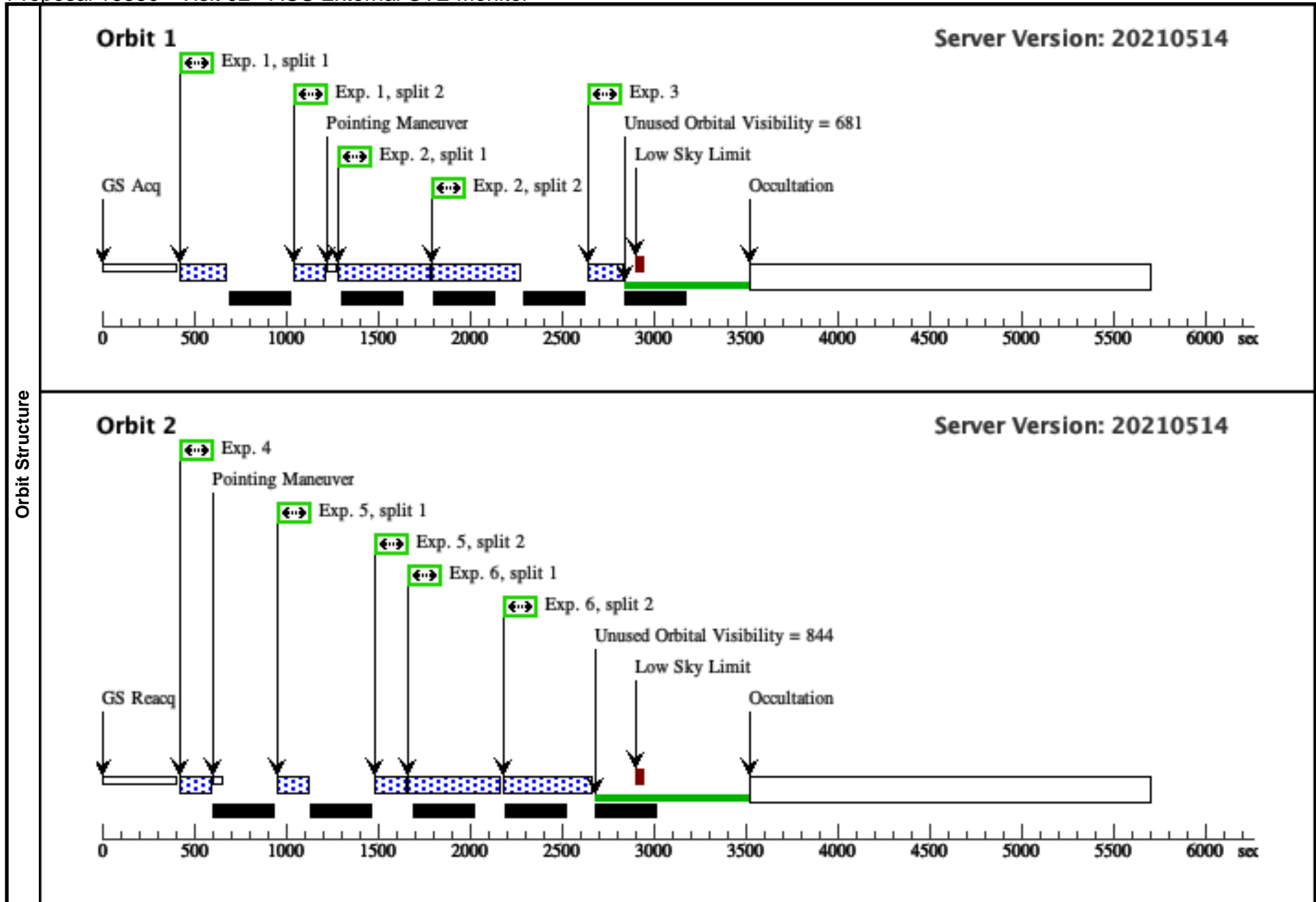




Proposal 16380 - Visit 02 - ACS External CTE Monitor

Wed Jun 30 20:01:46 GMT 2021

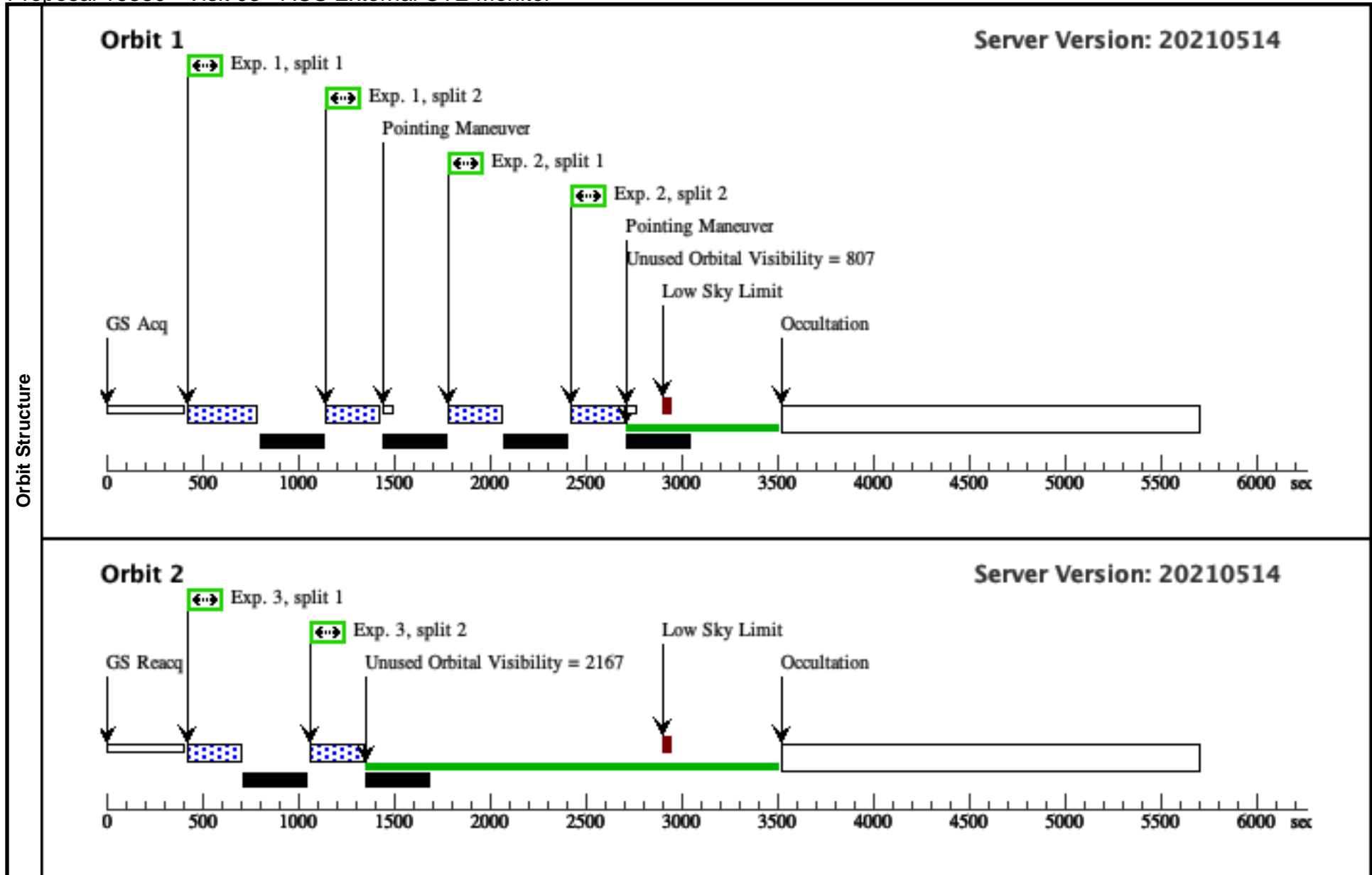
Visit	Proposal 16380, Visit 02, failed Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 01 <i>Comments: USE SINGLE GUIDE STAR IF NECESSARY.VISIT SHOULD USE CONTIGUOUS ORBITS DO NO BREAK ORBITS</i>																																																																
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Proposal 16380 - Visit 03 - ACS External CTE Monitor

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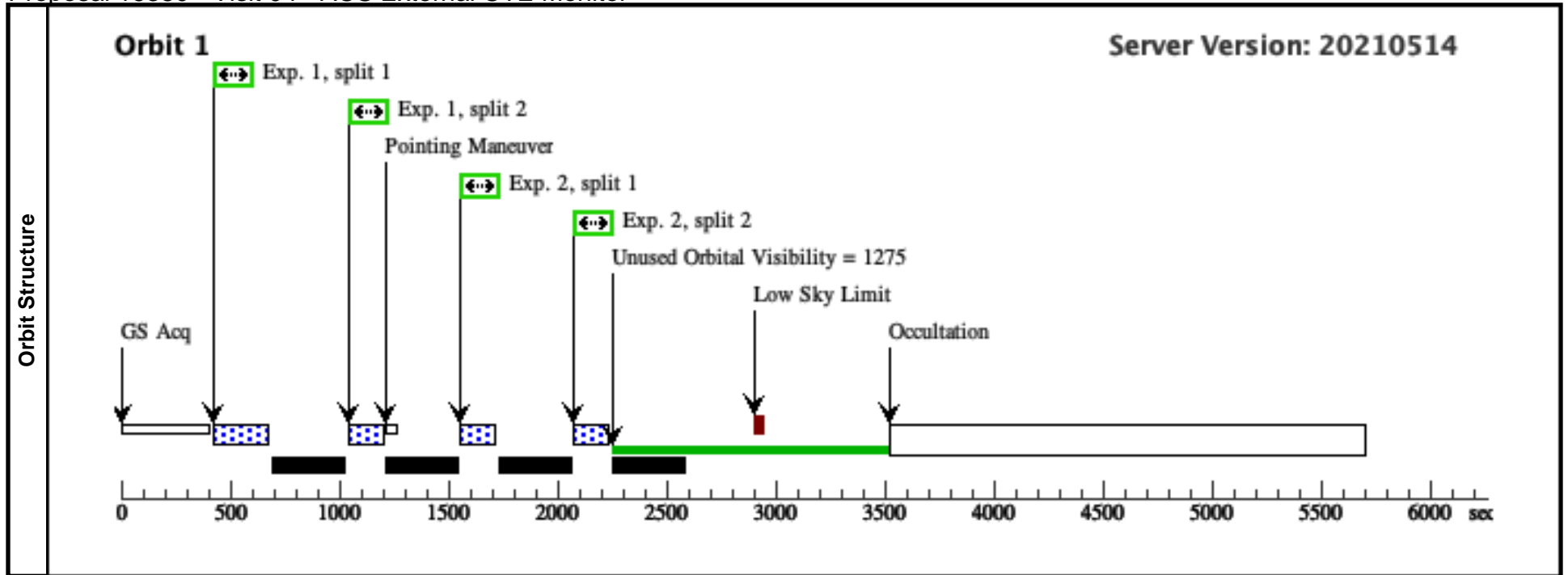
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Exposures																																													



Proposal 16380 - Visit 04 - ACS External CTE Monitor

Wed Jun 30 20:01:46 GMT 2021

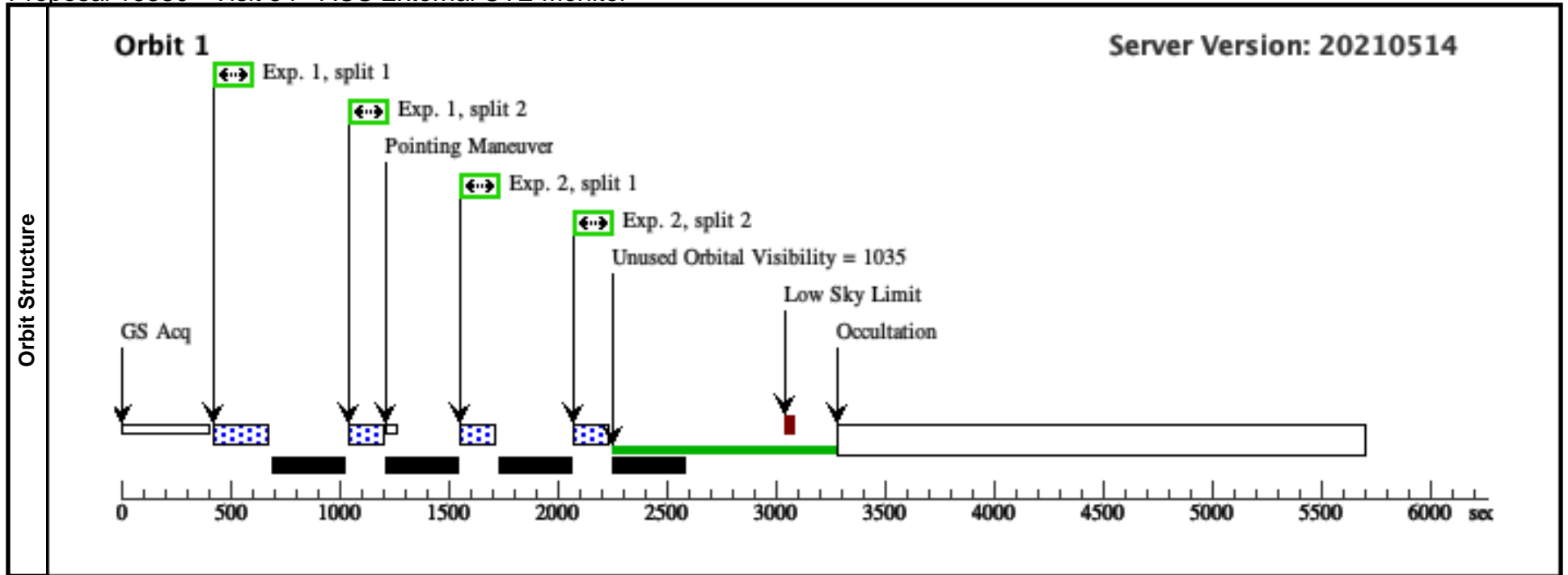
Visit	Proposal 16380, Visit 04, failed Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: USE SINGLE GUIDE STAR IF NECESSARY.VISIT SHOULD USE CONTIGUOUS ORBITS DO NO BREAK ORBITS</i>																																			
	(Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT																																			
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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>(2)</td> <td>NGC104-F502N</td> <td>RA: 00 23 38.0000 (5.9083333d) Dec: -72 06 6.00 (-72.10167d) Equinox: J2000</td> <td></td> <td>V=4.91</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	NGC104-F502N	RA: 00 23 38.0000 (5.9083333d) Dec: -72 06 6.00 (-72.10167d) Equinox: J2000		V=4.91	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]</i>																						
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2		(2) NGC104-F502N	ACS/WFC, ACCUM, WFC	F502N	CR-SPLIT=2	POS TARG 0.0,103.64; LOW-SKY	Same Obset in Visit 04 Sequence 1-2 Non-Int in Same Obset in Visit 04	60.0 Secs (60 Secs) [=>(Split 1)] [=>(Split 2)]	[1]																											



Proposal 16380 - Visit 54 - ACS External CTE Monitor

Wed Jun 30 20:01:46 GMT 2021

Visit	Proposal 16380, Visit 54, implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: USE SINGLE GUIDE STAR IF NECESSARY.VISIT SHOULD USE CONTIGUOUS ORBITS DO NO BREAK ORBITS</i>																																																							
	Diagnosics (Visit 54) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 54) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 54) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 54) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT																																																							
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Proposal 16380 - Visit 55 - ACS External CTE Monitor

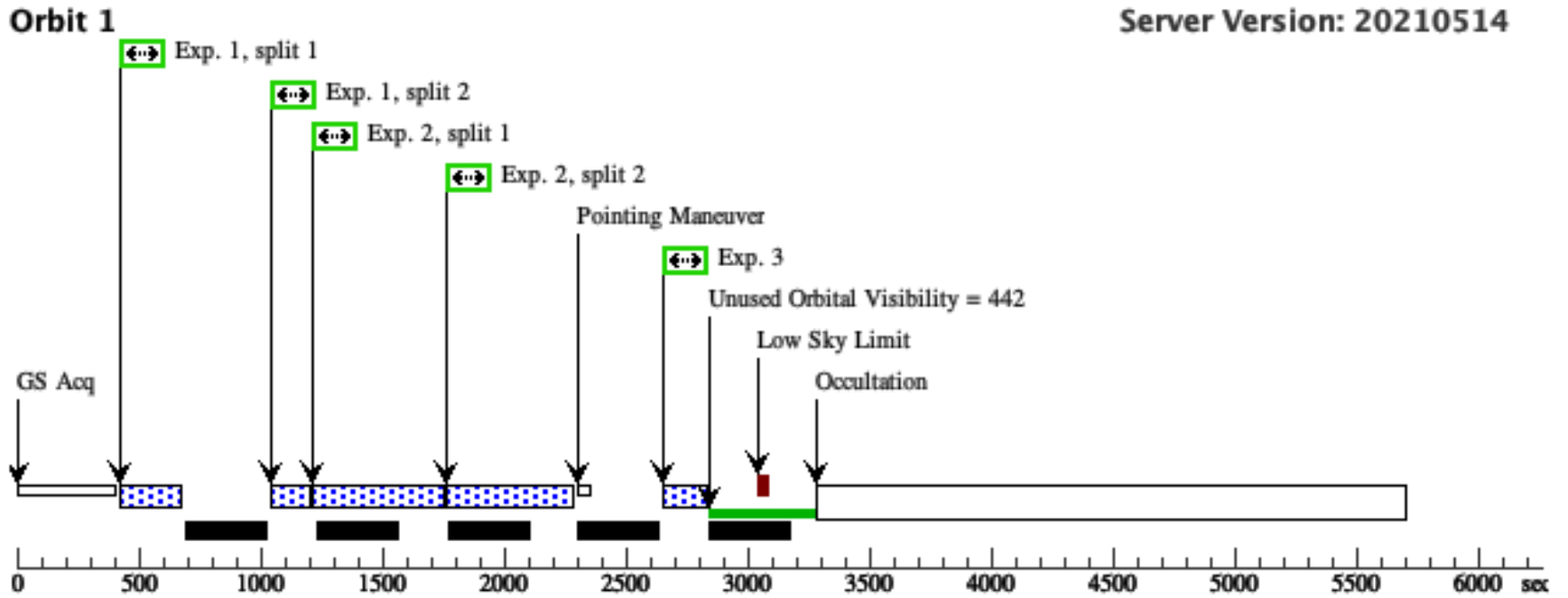
Wed Jun 30 20:01:46 GMT 2021

Visit	Proposal 16380, Visit 55, implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: BETWEEN 01-APR-2021:00:00:00 AND 15-SEP-2021:00:00:00; SEQ 54,55,56,57 WITHIN 2 D <i>Comments: USE SINGLE GUIDE STAR IF NECESSARY.VISIT SHOULD USE CONTIGUOUS ORBITS DO NO BREAK ORBITS</i>																
	Diagnosics (Visit 55) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (Visit 55) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (Visit 55) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (Visit 55) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 55) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 55) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 55) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE																
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<i>Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]</i>																	

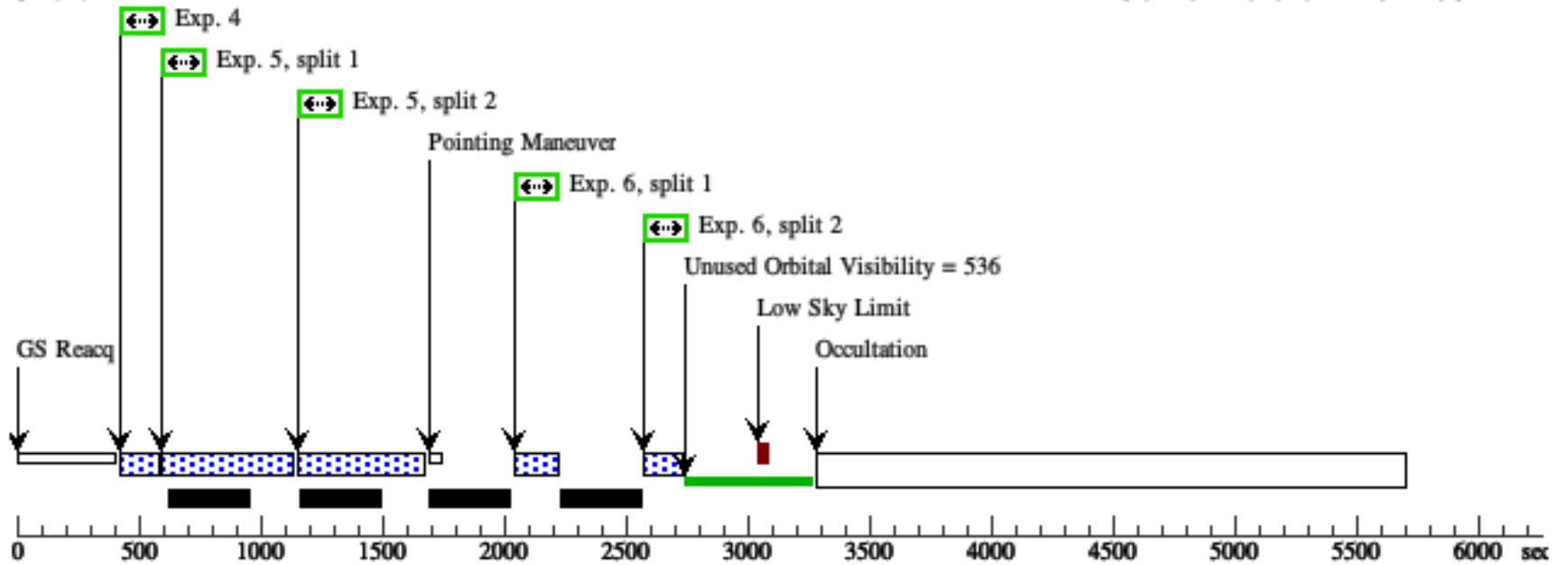
Proposal 16380 - Visit 55 - ACS External CTE Monitor

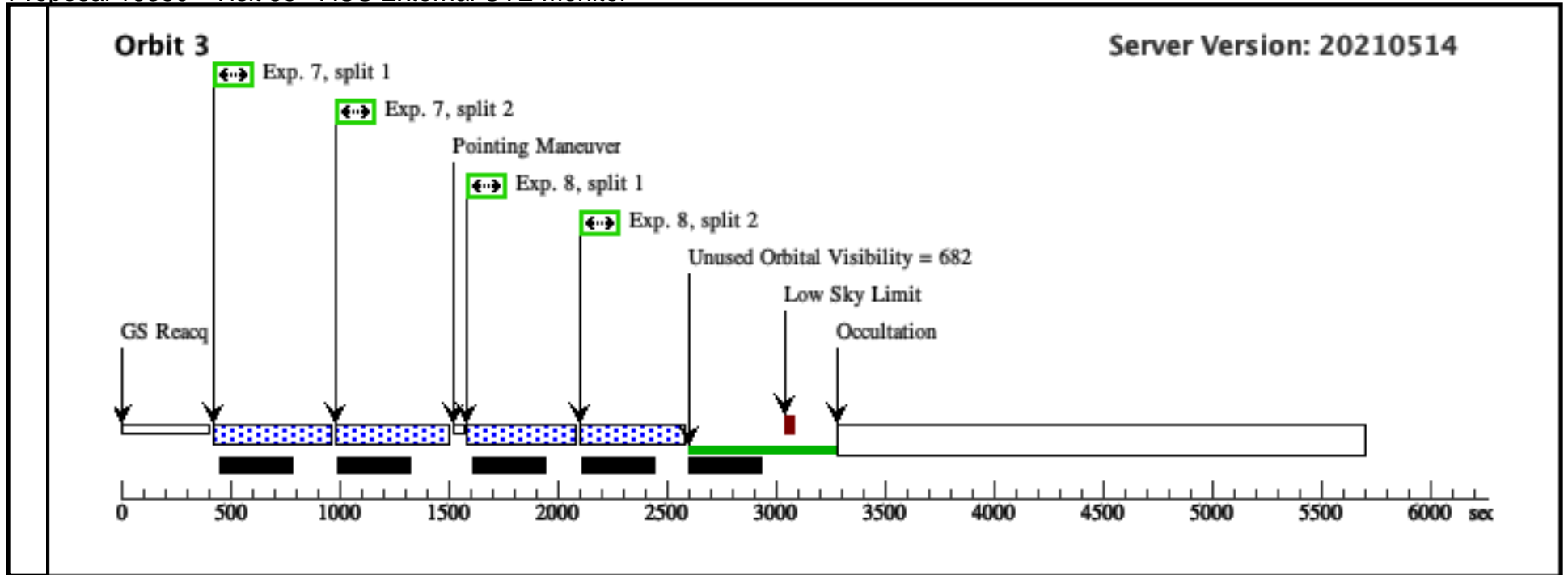
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F502N	CR-SPLIT=2	POS TARG 101.17,8 .19; LOW-SKY; GS ACQ SCENARI O BASE1B3	Same Obset in Visit 55 Sequence 1-3 Non-Int in Same Obset in V isit 55	60.0 Secs (60 Secs) [==>(Split 1)] [==>(Split 2)]	[1]
	2	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=2	POS TARG 101.17,8 .19; LOW-SKY	Same Obset in Visit 55 Sequence 1-3 Non-Int in Same Obset in V isit 55	800.0 Secs (800 Secs) [==>(Split 1)] [==>(Split 2)]	[1]
	3	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F502N	CR-SPLIT=NO	POS TARG 0.0,0.0; LOW-SKY	Same Obset in Visit 55 Sequence 1-3 Non-Int in Same Obset in V isit 55	30.0 Secs (30 Secs) [==>]	[1]
	4	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F502N	CR-SPLIT=NO	POS TARG 0.0,0.0; LOW-SKY	Same Obset in Visit 55 Sequence 4-6 Non-Int in Same Obset in V isit 55	30.0 Secs (30 Secs) [==>]	[2]
	5	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=2	POS TARG 0.0,0.0; LOW-SKY	Same Obset in Visit 55 Sequence 4-6 Non-Int in Same Obset in V isit 55	800.0 Secs (800 Secs) [==>(Split 1)] [==>(Split 2)]	[2]
	6	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F502N	CR-SPLIT=2	POS TARG 0.0,103. 64; LOW-SKY	Same Obset in Visit 55 Sequence 4-6 Non-Int in Same Obset in V isit 55	60.0 Secs (60 Secs) [==>(Split 1)] [==>(Split 2)]	[2]
	7	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=2	POS TARG 0.0,103. 64; LOW-SKY	Same Obset in Visit 55 Sequence 7-7 Non-Int in Same Obset in V isit 55	800.0 Secs (800 Secs) [==>(Split 1)] [==>(Split 2)]	[3]
	8	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F502N	CR-SPLIT=2	POS TARG 101.17,8 .19; LOW-SKY	Same Obset in Visit 55 Sequence 8-8 Non-Int in Same Obset in V isit 55	720.0 Secs (720 Secs) [==>(Split 1)] [==>(Split 2)]	[3]

Orbit Structure



Orbit 2

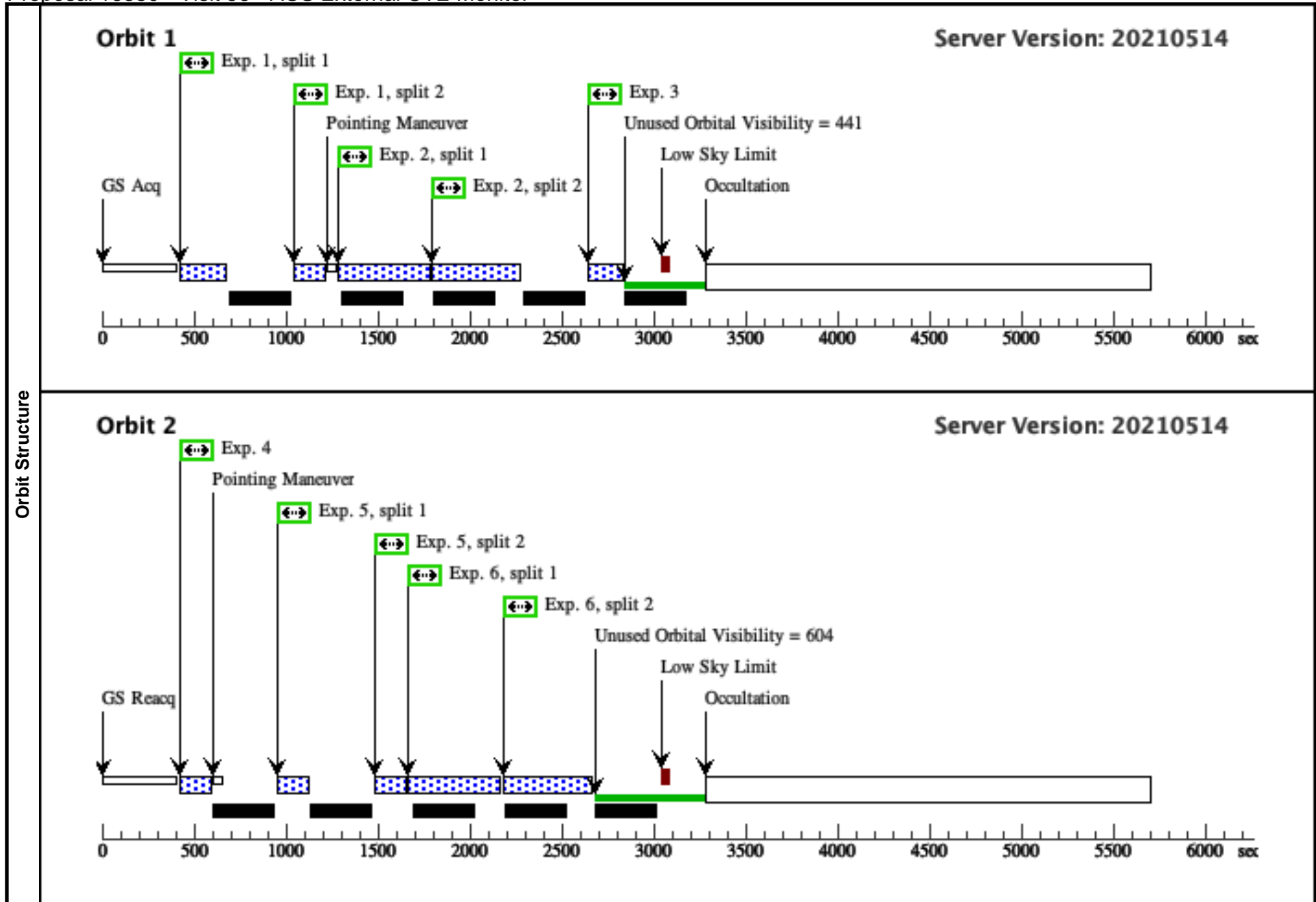




Proposal 16380 - Visit 56 - ACS External CTE Monitor

Wed Jun 30 20:01:47 GMT 2021

Visit	Proposal 16380, Visit 56, implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 55 <i>Comments: USE SINGLE GUIDE STAR IF NECESSARY. VISIT SHOULD USE CONTIGUOUS ORBITS DO NO BREAK ORBITS</i>																																																																									
	Diagnosics (Visit 56) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (Visit 56) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (Visit 56) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 56) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 56) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 56) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE																																																																									
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	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																
	1	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=2	POS TARG 101.17,8 .19; LOW-SKY; GS ACQ SCENARI O BASE1B3	Same Obset in Visit 56 Sequence 1-3 Non-Int in Same Obset in V isit 56	80.0 Secs (80 Secs) [==>(Split 1)] [==>(Split 2)]	[1]																																																																	
	2	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F502N	CR-SPLIT=2	POS TARG 0.0,0.0; LOW-SKY	Same Obset in Visit 56 Sequence 1-3 Non-Int in Same Obset in V isit 56	720.0 Secs (720 Secs) [==>(Split 1)] [==>(Split 2)]	[1]																																																																	
	3	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	POS TARG 0.0,0.0; LOW-SKY	Same Obset in Visit 56 Sequence 1-3 Non-Int in Same Obset in V isit 56	40.0 Secs (40 Secs) [==>]	[1]																																																																	
	4	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO	POS TARG 0.0,0.0; LOW-SKY	Same Obset in Visit 56 Sequence 4-6 Non-Int in Same Obset in V isit 56	40.0 Secs (40 Secs) [==>]	[2]																																																																	
	5	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=2	POS TARG 0.0,103. 64; LOW-SKY	Same Obset in Visit 56 Sequence 4-6 Non-Int in Same Obset in V isit 56	80.0 Secs (80 Secs) [==>(Split 1)] [==>(Split 2)]	[2]																																																																	
6	(4) OMEGACEN-O FF	ACS/WFC, ACCUM, WFC	F502N	CR-SPLIT=2	POS TARG 0.0,103. 64; LOW-SKY	Same Obset in Visit 56 Sequence 4-6 Non-Int in Same Obset in V isit 56	720.0 Secs (720 Secs) [==>(Split 1)] [==>(Split 2)]	[2]																																																																		



Proposal 16380 - Visit 57 - ACS External CTE Monitor

Wed Jun 30 20:01:47 GMT 2021

Visit	Proposal 16380, Visit 57, implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 55 <i>Comments: USE SINGLE GUIDE STAR IF NECESSARY.VISIT SHOULD USE CONTIGUOUS ORBITS DO NO BREAK ORBITS</i>																																													
	(Visit 57) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (Visit 57) Warning (Orbit Planner): MERGING RULE VIOLATED DURING AUTOMATIC MERGING (Visit 57) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 57) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE																																													
Diagnosics																																														
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>OMEGACEN-OFF</td> <td>RA: 13 26 59.0000 (201.7458333d) Dec: -47 34 27.00 (-47.57417d) Equinox: J2000</td> <td></td> <td>V=16.8</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	OMEGACEN-OFF	RA: 13 26 59.0000 (201.7458333d) Dec: -47 34 27.00 (-47.57417d) Equinox: J2000		V=16.8	Reference Frame: ICRS	<i>Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]</i>																																
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