



## 17364 - HST Cycle 31 Focus & Optical Monitor

Cycle: 31, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Dr. Linda L. Dressel (PI) (Contact)</b>	<b>Space Telescope Science Institute</b>
Isabel Rivera (CoI) (Contact)	Space Telescope Science Institute
Dr. Jay Anderson (CoI)	Space Telescope Science Institute
Mr. Matthew D. Lallo (CoI)	Space Telescope Science Institute

### 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) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	08-Jul-2024 11:00:21.0	yes
02	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	08-Jul-2024 11:00:23.0	yes
03	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	08-Jul-2024 11:00:25.0	yes
04	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	08-Jul-2024 11:00:26.0	yes
05	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	08-Jul-2024 11:00:27.0	yes
06	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	08-Jul-2024 11:00:28.0	yes

6 Total Orbits Used

### **ABSTRACT**

Utilize WFC3/UVIS and ACS/WFC in parallel to observe stellar cluster members with multiple exposures over an orbit. Phase retrieval performed on the PSF in each image will be used to measure focus, with the ability to explore apparent coma, astigmatism, and third order spherical changes in WFC3. The goals are to 1) monitor the optical telescope assembly focal length for the purposes of maintaining focus within science tolerances and 2) determine focus offsets between the imagers and identify any science instrument-specific focus behavior and dependencies.

### **OBSERVING DESCRIPTION**

In Cycle 30, we converted the standard CAL/OTA monitor to a CAL/WFC3 monitor. This bi-monthly program uses the WFC3/UVIS filter F410M to take shallow subarray exposures of the sparse open cluster NGC188. Full frame ACS/WFC exposures in filter F502N are made in parallel. Phase retrieval (PR) is performed on the stellar images to measure the focus of each exposure in equivalent secondary mirror despace. These focus measurements are used to track the evolution of the focus over months and years and to inform whether a focus adjustment is required.

One orbit every ~2 months with WFC3/UVIS and ACS/WFC in parallel for con-focality check. The use of WFC3 subarrays allows for more exposures during the orbit.

Since deployment, the HST OTA has shrunk by ~150 microns, resulting in over 20 compensating Secondary Mirror (SM) adjustments away from the Primary Mirror to maintain good focus to the science instruments. This program provides the observations to determine when a secondary mirror adjustment is required.

Proposal 17364 - Visit 01 - HST Cycle 31 Focus & Optical Monitor

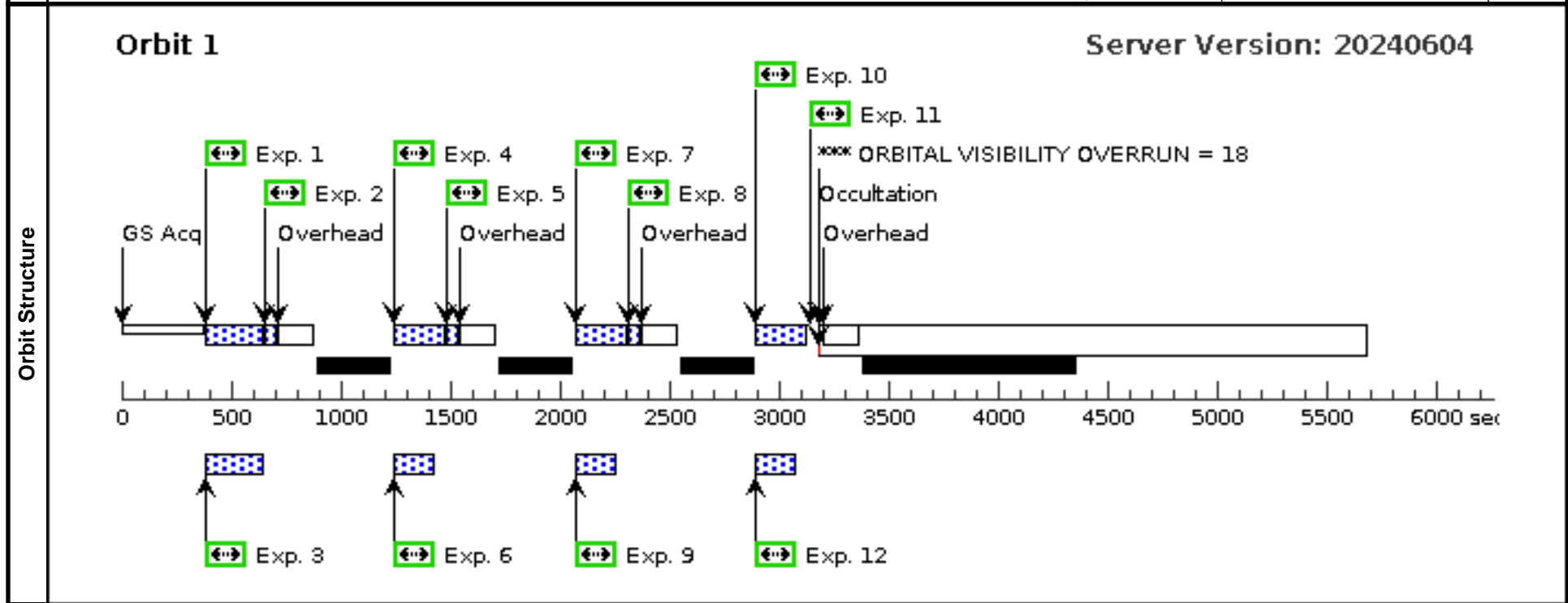
<b>Visit</b>	<b>Proposal 17364, Visit 01, completed</b> <span style="float: right;">Mon Jul 08 15:00:29 GMT 2024</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; BETWEEN 15-DEC-2023:00:00:00 AND 22-DEC-2023:00:00:00 <i>Comments: WFC3/UVIS with ACS in parallel for confocality check. Using WFC3 subarray to allow more exposures during orbit.</i>																
	<b>Diagnostics</b>	(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 01) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 01) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 01) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 01) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE															
<b>Fixed Targets</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">#</th> <th style="width: 20%;">Name</th> <th style="width: 30%;">Target Coordinates</th> <th style="width: 20%;">Targ. Coord. Corrections</th> <th style="width: 10%;">Fluxes</th> <th style="width: 15%;">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NGC-188-DENSE</td> <td>RA: 00 47 26.0000 (11.8583333d) Dec: +85 15 15.00 (85.25417d) Equinox: J2000</td> <td></td> <td>V=20</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	NGC-188-DENSE	RA: 00 47 26.0000 (11.8583333d) Dec: +85 15 15.00 (85.25417d) Equinox: J2000		V=20
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<i>Comments: magnitude not relevant                  Category=STELLAR CLUSTER                  Description=[OPEN CLUSTER]                  Extended=NO</i>																	

Proposal 17364 - Visit 01 - HST Cycle 31 Focus & Optical Monitor

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 01 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 01	50 Secs (50 Secs) [==>]	[1]
	2	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 1	Sequence 1-12 Non-Int in Visit 01 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 01	50 Secs (50 Secs) [==>]	[1]
	3	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 01 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 01	50 Secs (50 Secs) [==>]	[1]
	4	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 01 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 01	50 Secs (50 Secs) [==>]	[1]
	5	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 4	Sequence 1-12 Non-Int in Visit 01 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 01	50 Secs (50 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 01 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 01	50 Secs (50 Secs) [==>]	[1]
	7	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 01 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 01	50 Secs (50 Secs) [==>]	[1]
	8	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 7	Sequence 1-12 Non-Int in Visit 01 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 01	50 Secs (50 Secs) [==>]	[1]
	9	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 01 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 01	50 Secs (50 Secs) [==>]	[1]

Proposal 17364 - Visit 01 - HST Cycle 31 Focus & Optical Monitor

10	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 01 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 01	50 Secs (50 Secs) [==>]	[1]
11	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 10	Sequence 1-12 Non-Int in Visit 01 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 01	50 Secs (50 Secs) [==>]	[1]
12	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 01 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 01	50 Secs (50 Secs) [==>]	[1]



Proposal 17364 - Visit 02 - HST Cycle 31 Focus & Optical Monitor

Mon Jul 08 15:00:29 GMT 2024

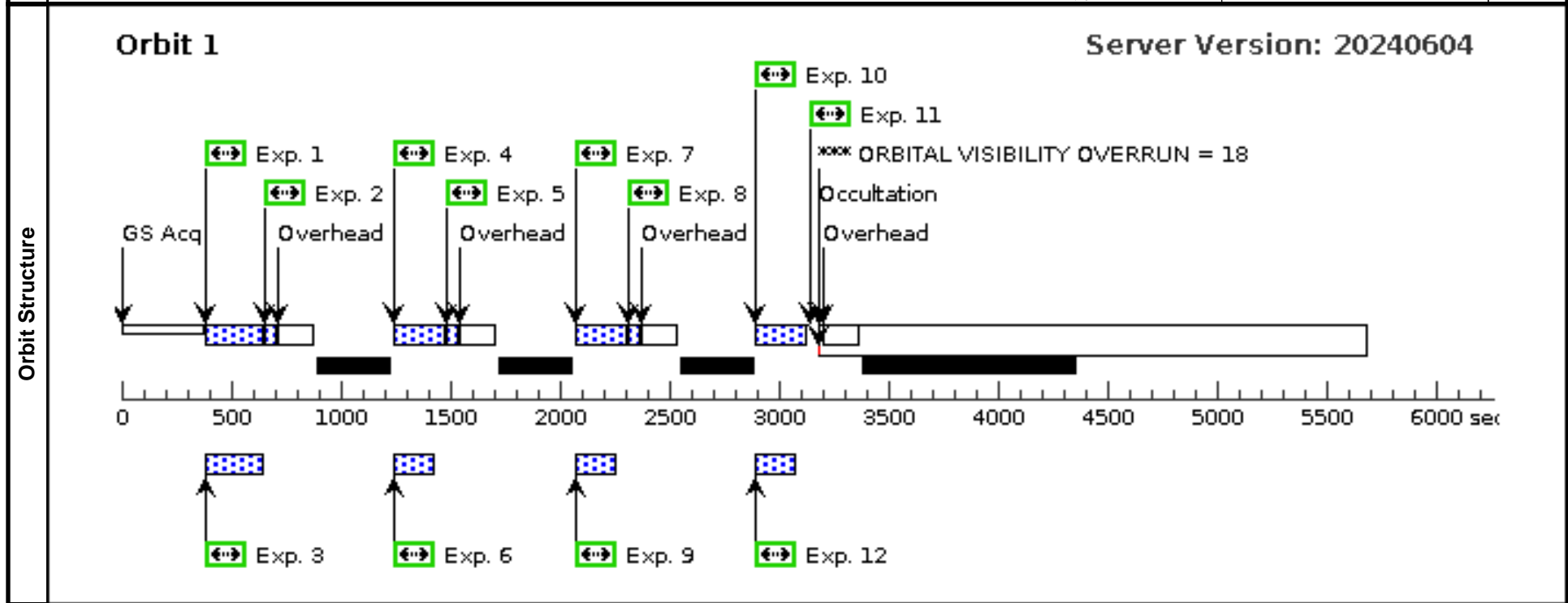
<b>Visit</b>	<p><b>Proposal 17364, Visit 02, completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SCHED 80%; BETWEEN 28-FEB-2024:00:00:00 AND 06-MAR-2024:00:00:00</p> <p><i>Comments: WFC3/UVIS with ACS in parallel for confocality check. Using WFC3 subarray to allow more exposures during orbit.</i></p>																		
<b>Diagnostics</b>	<p>(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 02) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p> <p>(Visit 02) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p> <p>(Visit 02) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p> <p>(Visit 02) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p>																		
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Proposal 17364 - Visit 02 - HST Cycle 31 Focus & Optical Monitor

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 02  Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 02	50 Secs (50 Secs) [==>]	[1]
	2	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 1	Sequence 1-12 Non-Int in Visit 02  Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 02	50 Secs (50 Secs) [==>]	[1]
	3	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 02  Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 02	50 Secs (50 Secs) [==>]	[1]
	4	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 02  Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 02	50 Secs (50 Secs) [==>]	[1]
	5	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 4	Sequence 1-12 Non-Int in Visit 02  Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 02	50 Secs (50 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 02  Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 02	50 Secs (50 Secs) [==>]	[1]
	7	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 02  Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 02	50 Secs (50 Secs) [==>]	[1]
	8	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 7	Sequence 1-12 Non-Int in Visit 02  Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 02	50 Secs (50 Secs) [==>]	[1]
	9	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 02  Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 02	50 Secs (50 Secs) [==>]	[1]

Proposal 17364 - Visit 02 - HST Cycle 31 Focus & Optical Monitor

10	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 02 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 02	50 Secs (50 Secs) [==>]	[1]
11	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 10	Sequence 1-12 Non-Int in Visit 02 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 02	50 Secs (50 Secs) [==>]	[1]
12	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 02 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 02	50 Secs (50 Secs) [==>]	[1]



Proposal 17364 - Visit 03 - HST Cycle 31 Focus & Optical Monitor

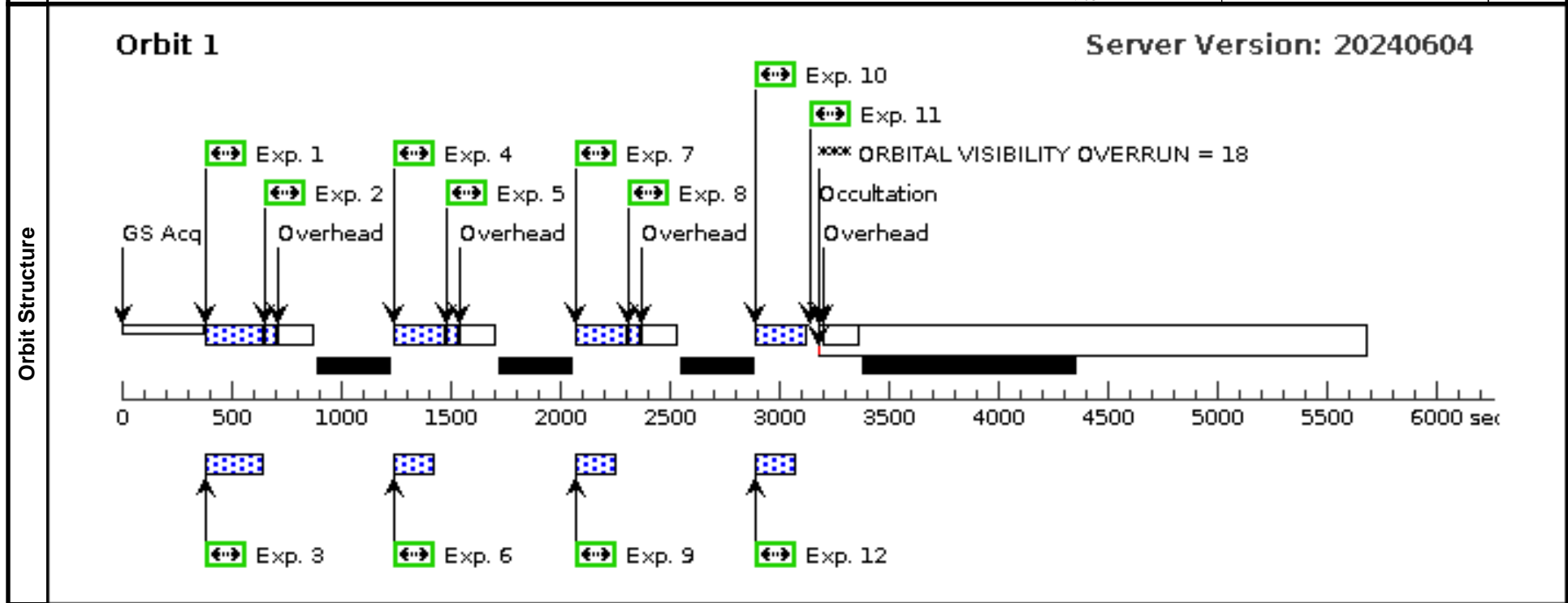
<b>Visit</b>	<p><b>Proposal 17364, Visit 03, completed</b> <span style="float: right;">Mon Jul 08 15:00:29 GMT 2024</span></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SCHED 80%; BETWEEN 20-APR-2024:00:00:00 AND 27-APR-2024:00:00:00</p> <p><i>Comments: WFC3/UVIS with ACS in parallel for confocality check. Using WFC3 subarray to allow more exposures during orbit.</i></p>																
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Proposal 17364 - Visit 03 - HST Cycle 31 Focus & Optical Monitor

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Exposures	1	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 03 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 03	50 Secs (50 Secs) [==>]	[1]
	2	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 1	Sequence 1-12 Non-Int in Visit 03 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 03	50 Secs (50 Secs) [==>]	[1]
	3	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 03 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 03	50 Secs (50 Secs) [==>]	[1]
	4	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 03 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 03	50 Secs (50 Secs) [==>]	[1]
	5	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 4	Sequence 1-12 Non-Int in Visit 03 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 03	50 Secs (50 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 03 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 03	50 Secs (50 Secs) [==>]	[1]
	7	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 03 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 03	50 Secs (50 Secs) [==>]	[1]
	8	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 7	Sequence 1-12 Non-Int in Visit 03 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 03	50 Secs (50 Secs) [==>]	[1]
	9	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 03 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 03	50 Secs (50 Secs) [==>]	[1]

Proposal 17364 - Visit 03 - HST Cycle 31 Focus & Optical Monitor

10	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 03 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 03	50 Secs (50 Secs) [==>]	[1]
11	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 10	Sequence 1-12 Non-Int in Visit 03 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 03	50 Secs (50 Secs) [==>]	[1]
12	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 03 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 03	50 Secs (50 Secs) [==>]	[1]



Proposal 17364 - Visit 04 - HST Cycle 31 Focus & Optical Monitor

Mon Jul 08 15:00:29 GMT 2024

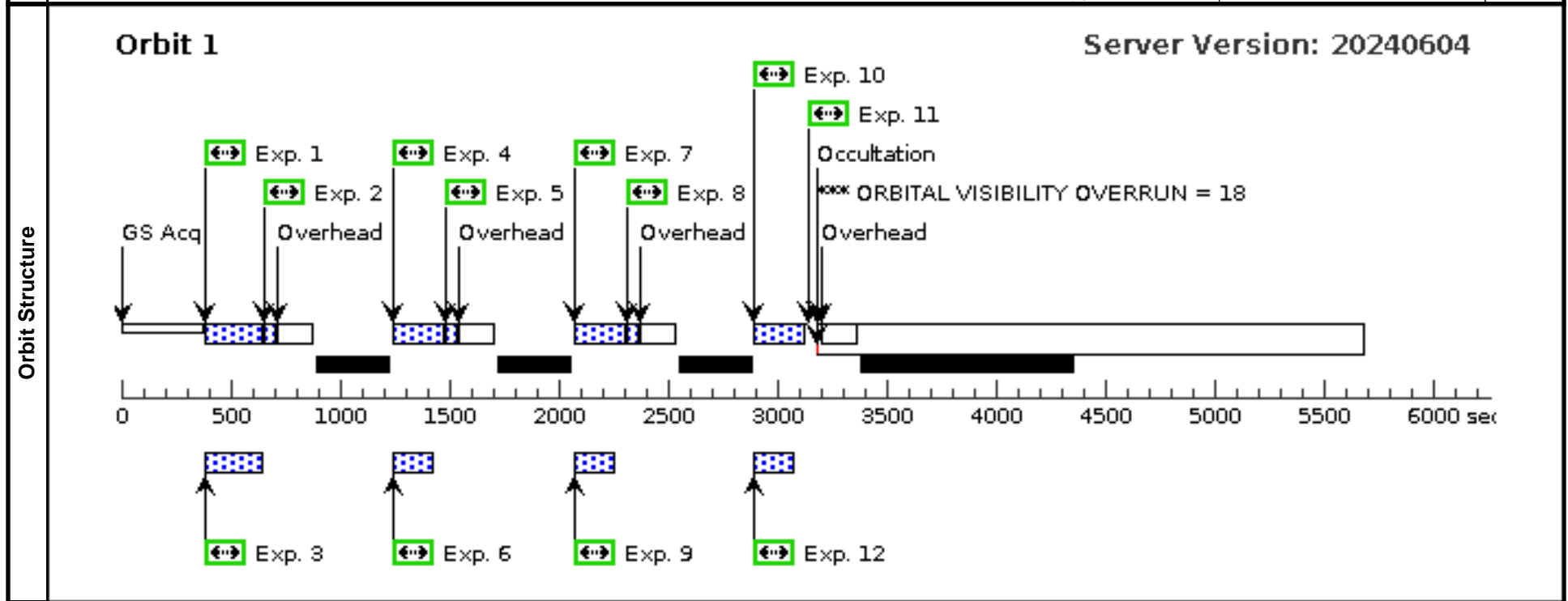
<b>Visit</b>	<p><b>Proposal 17364, Visit 04, completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SCHED 80%; BETWEEN 17-JUN-2024:00:00:00 AND 24-JUN-2024:00:00:00</p> <p><i>Comments: WFC3/UVIS with ACS in parallel for confocality check. Using WFC3 subarray to allow more exposures during orbit.</i></p>																		
<b>Diagnostics</b>	<p>(Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Visit 04) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p> <p>(Visit 04) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p> <p>(Visit 04) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p> <p>(Visit 04) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p>																		
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th data-bbox="142 425 247 451">#</th> <th data-bbox="247 425 478 451">Name</th> <th data-bbox="478 425 919 451">Target Coordinates</th> <th data-bbox="919 425 1318 451">Targ. Coord. Corrections</th> <th data-bbox="1318 425 1612 451">Fluxes</th> <th data-bbox="1612 425 2005 451">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td data-bbox="142 457 247 483">(1)</td> <td data-bbox="247 457 478 483">NGC-188-DENSE</td> <td data-bbox="478 457 919 548">                     RA: 00 47 26.0000 (11.8583333d)                      Dec: +85 15 15.00 (85.25417d)                      Equinox: J2000                 </td> <td data-bbox="919 457 1318 483"></td> <td data-bbox="1318 457 1612 483">V=20</td> <td data-bbox="1612 457 2005 483">Reference Frame: ICRS</td> </tr> <tr> <td colspan="6" data-bbox="142 555 2005 643"> <p><i>Comments: magnitude not relevant</i></p> <p><i>Category=STELLAR CLUSTER</i></p> <p><i>Description=[OPEN CLUSTER]</i></p> <p><i>Extended=NO</i></p> </td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	NGC-188-DENSE	RA: 00 47 26.0000 (11.8583333d) Dec: +85 15 15.00 (85.25417d) Equinox: J2000		V=20	Reference Frame: ICRS	<p><i>Comments: magnitude not relevant</i></p> <p><i>Category=STELLAR CLUSTER</i></p> <p><i>Description=[OPEN CLUSTER]</i></p> <p><i>Extended=NO</i></p>					
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous														
(1)	NGC-188-DENSE	RA: 00 47 26.0000 (11.8583333d) Dec: +85 15 15.00 (85.25417d) Equinox: J2000		V=20	Reference Frame: ICRS														
<p><i>Comments: magnitude not relevant</i></p> <p><i>Category=STELLAR CLUSTER</i></p> <p><i>Description=[OPEN CLUSTER]</i></p> <p><i>Extended=NO</i></p>																			

Proposal 17364 - Visit 04 - HST Cycle 31 Focus & Optical Monitor

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 04 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 04	50 Secs (50 Secs) [==>]	[1]
	2	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 1	Sequence 1-12 Non-Int in Visit 04 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 04	50 Secs (50 Secs) [==>]	[1]
	3	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 04 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 04	50 Secs (50 Secs) [==>]	[1]
	4	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 04 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 04	50 Secs (50 Secs) [==>]	[1]
	5	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 4	Sequence 1-12 Non-Int in Visit 04 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 04	50 Secs (50 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 04 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 04	50 Secs (50 Secs) [==>]	[1]
	7	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 04 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 04	50 Secs (50 Secs) [==>]	[1]
	8	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 7	Sequence 1-12 Non-Int in Visit 04 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 04	50 Secs (50 Secs) [==>]	[1]
	9	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 04 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 04	50 Secs (50 Secs) [==>]	[1]

Proposal 17364 - Visit 04 - HST Cycle 31 Focus & Optical Monitor

10	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 04 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 04	50 Secs (50 Secs) [==>]	[1]
11	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 10	Sequence 1-12 Non-Int in Visit 04 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 04	50 Secs (50 Secs) [==>]	[1]
12	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 04 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 04	50 Secs (50 Secs) [==>]	[1]



Proposal 17364 - Visit 05 - HST Cycle 31 Focus & Optical Monitor

Mon Jul 08 15:00:29 GMT 2024

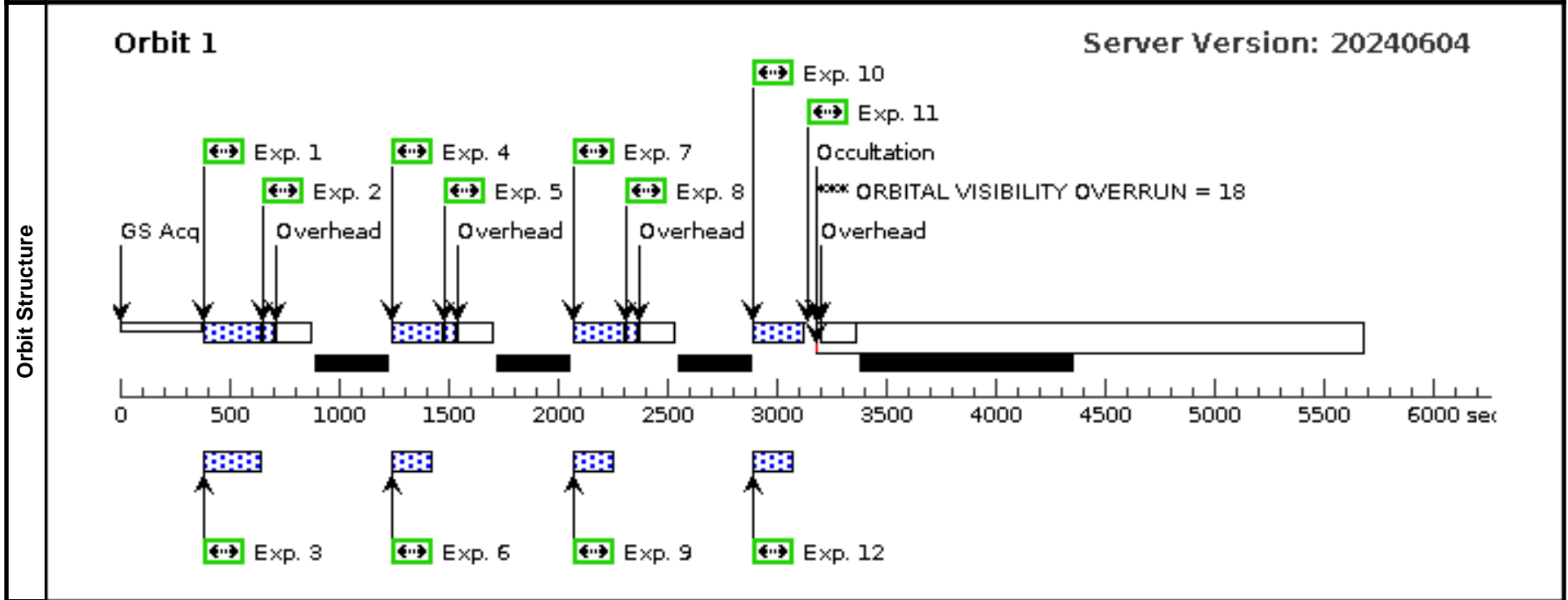
<b>Visit</b>	<b>Proposal 17364, Visit 05, implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; BETWEEN 09-AUG-2024:00:00:00 AND 20-AUG-2024:00:00:00 <i>Comments: WFC3/UVIS with ACS in parallel for confocality check. Using WFC3 subarray to allow more exposures during orbit.</i>																
	<b>Diagnostics</b>	(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 05) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 05) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 05) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 05) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE															
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(1)	NGC-188-DENSE	RA: 00 47 26.0000 (11.8583333d) Dec: +85 15 15.00 (85.25417d) Equinox: J2000		V=20	Reference Frame: ICRS												
<i>Comments: magnitude not relevant</i> <i>Category=STELLAR CLUSTER</i> <i>Description=[OPEN CLUSTER]</i> <i>Extended=NO</i>																	

Proposal 17364 - Visit 05 - HST Cycle 31 Focus & Optical Monitor

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 05 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 05	50 Secs (50 Secs) [==>]	[1]
	2	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 1	Sequence 1-12 Non-Int in Visit 05 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 05	50 Secs (50 Secs) [==>]	[1]
	3	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 05 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 05	50 Secs (50 Secs) [==>]	[1]
	4	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 05 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 05	50 Secs (50 Secs) [==>]	[1]
	5	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 4	Sequence 1-12 Non-Int in Visit 05 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 05	50 Secs (50 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 05 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 05	50 Secs (50 Secs) [==>]	[1]
	7	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 05 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 05	50 Secs (50 Secs) [==>]	[1]
	8	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 7	Sequence 1-12 Non-Int in Visit 05 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 05	50 Secs (50 Secs) [==>]	[1]
	9	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 05 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 05	50 Secs (50 Secs) [==>]	[1]

Proposal 17364 - Visit 05 - HST Cycle 31 Focus & Optical Monitor

10	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 05 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 05	50 Secs (50 Secs) [==>]	[1]
11	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 10	Sequence 1-12 Non-Int in Visit 05 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 05	50 Secs (50 Secs) [==>]	[1]
12	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 05 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 05	50 Secs (50 Secs) [==>]	[1]



Proposal 17364 - Visit 06 - HST Cycle 31 Focus & Optical Monitor

Mon Jul 08 15:00:30 GMT 2024

<b>Visit</b>	<b>Proposal 17364, Visit 06, implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; BETWEEN 24-OCT-2024:00:00:00 AND 03-NOV-2024:00:00:00 <i>Comments: WFC3/UVIS with ACS in parallel for confocality check. Using WFC3 subarray to allow more exposures during orbit.</i>																
	<b>Diagnostics</b>	(Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 06) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 06) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 06) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 06) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE															
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(1)	NGC-188-DENSE	RA: 00 47 26.0000 (11.8583333d) Dec: +85 15 15.00 (85.25417d) Equinox: J2000		V=20	Reference Frame: ICRS												
<i>Comments: magnitude not relevant</i> <i>Category=STELLAR CLUSTER</i> <i>Description=[OPEN CLUSTER]</i> <i>Extended=NO</i>																	

Proposal 17364 - Visit 06 - HST Cycle 31 Focus & Optical Monitor

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 06 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 06	50 Secs (50 Secs) [==>]	[1]
	2	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 1	Sequence 1-12 Non-Int in Visit 06 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 06	50 Secs (50 Secs) [==>]	[1]
	3	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 06 Prime + Parallel Group 1-3 in Sequence 1-12 Non-Int in Visit 06	50 Secs (50 Secs) [==>]	[1]
	4	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 06 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 06	50 Secs (50 Secs) [==>]	[1]
	5	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 4	Sequence 1-12 Non-Int in Visit 06 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 06	50 Secs (50 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 06 Prime + Parallel Group 4-6 in Sequence 1-12 Non-Int in Visit 06	50 Secs (50 Secs) [==>]	[1]
	7	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 06 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 06	50 Secs (50 Secs) [==>]	[1]
	8	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 7	Sequence 1-12 Non-Int in Visit 06 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 06	50 Secs (50 Secs) [==>]	[1]
	9	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 06 Prime + Parallel Group 7-9 in Sequence 1-12 Non-Int in Visit 06	50 Secs (50 Secs) [==>]	[1]

Proposal 17364 - Visit 06 - HST Cycle 31 Focus & Optical Monitor

10	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS1	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-12 Non-Int in Visit 06 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 06	50 Secs (50 Secs) [==>]	[1]
11	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS2	F410M	CR-SPLIT=NO; SIZEAXIS1=2048; SIZEAXIS2=2048; FLASH=20	SAME POS AS 10	Sequence 1-12 Non-Int in Visit 06 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 06	50 Secs (50 Secs) [==>]	[1]
12	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-12 Non-Int in Visit 06 Prime + Parallel Group 10-12 in Sequence 1-12 Non-Int in Visit 06	50 Secs (50 Secs) [==>]	[1]

