



17258 - HST Cycle 30 Focus & Optical Monitor

Cycle: 30, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Linda L. Dressel (PI) (Contact)	Space Telescope Science Institute	dressel@stsci.edu
Isabel Rivera (CoI) (Contact)	Space Telescope Science Institute	irivera@stsci.edu
Dr. Jay Anderson (CoI)	Space Telescope Science Institute	jayander@stsci.edu
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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) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	10-Nov-2022 11:02:16.0	yes
02	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	10-Nov-2022 11:02:17.0	yes
03	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	10-Nov-2022 11:02:19.0	yes
04	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	10-Nov-2022 11:02:20.0	yes
05	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	10-Nov-2022 11:02:22.0	yes
06	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	10-Nov-2022 11:02:23.0	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

For Cycle 30, we convert 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 17258 - Visit 01 - HST Cycle 30 Focus & Optical Monitor

Thu Nov 10 16:02:23 GMT 2022

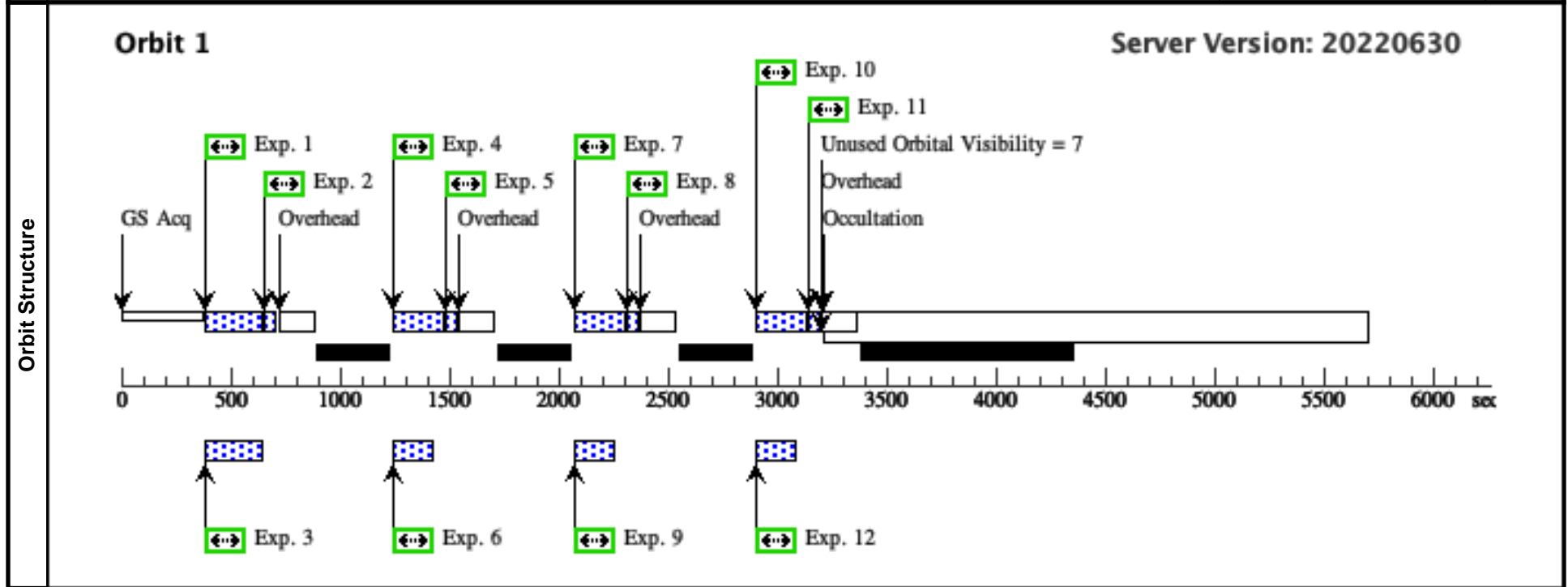
Visit	Proposal 17258, Visit 01 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; BETWEEN 09-DEC-2022:00:00:00 AND 16-DEC-2022:00:00:00 <i>Comments: WFC3/UVIS with ACS in parallel for confocality check. Using WFC3 subarray to allow more exposures during orbit.</i>																
	Diagnosics (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																
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>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	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
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<i>Comments: magnitude not relevant</i> <i>Category=STELLAR CLUSTER</i> <i>Description=[OPEN CLUSTER]</i> <i>Extended=NO</i>																	

Proposal 17258 - Visit 01 - HST Cycle 30 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 17258 - Visit 01 - HST Cycle 30 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 17258 - Visit 02 - HST Cycle 30 Focus & Optical Monitor

Thu Nov 10 16:02:24 GMT 2022

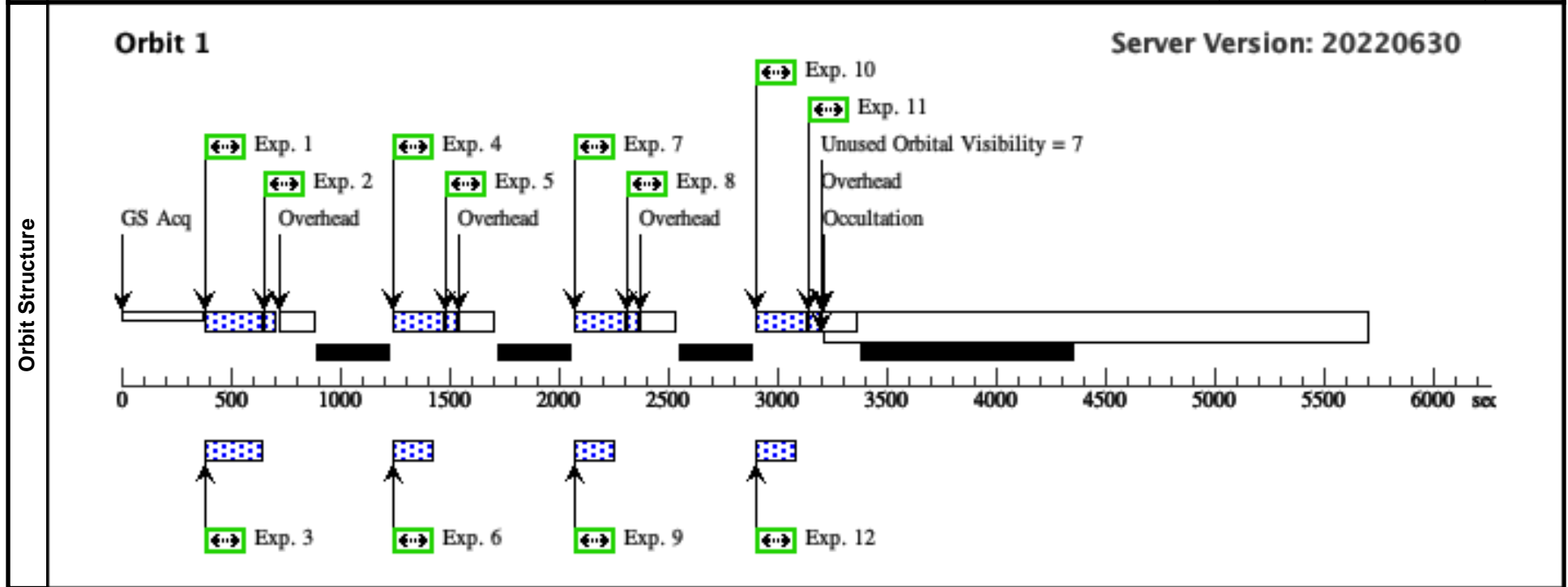
Visit	Proposal 17258, Visit 02 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; BETWEEN 23-FEB-2023:00:00:00 AND 01-MAR-2023:00:00:00 <i>Comments: WFC3/UVIS with ACS in parallel for confocality check. Using WFC3 subarray to allow more exposures during orbit.</i>																
	Diagnosics (Visit 02) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 02) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 02) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 02) 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 17258 - Visit 02 - HST Cycle 30 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 17258 - Visit 02 - HST Cycle 30 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 17258 - Visit 03 - HST Cycle 30 Focus & Optical Monitor

Thu Nov 10 16:02:24 GMT 2022

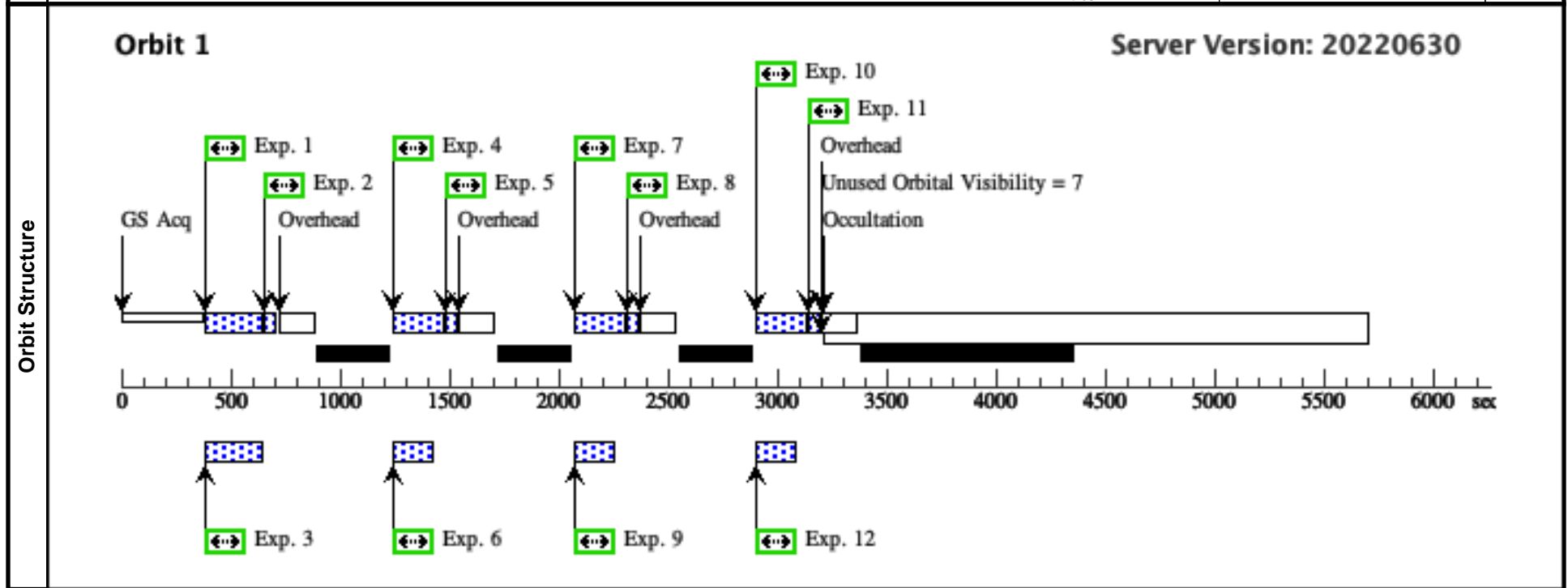
Visit	Proposal 17258, Visit 03 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; BETWEEN 29-APR-2023:00:00:00 AND 06-MAY-2023:00:00:00 <i>Comments: WFC3/UVIS with ACS in parallel for confocality check. Using WFC3 subarray to allow more exposures during orbit.</i>																
	Diagnosics (Visit 03) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 03) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 03) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 03) 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 17258 - Visit 03 - HST Cycle 30 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 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 17258 - Visit 03 - HST Cycle 30 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 17258 - Visit 04 - HST Cycle 30 Focus & Optical Monitor

Thu Nov 10 16:02:24 GMT 2022

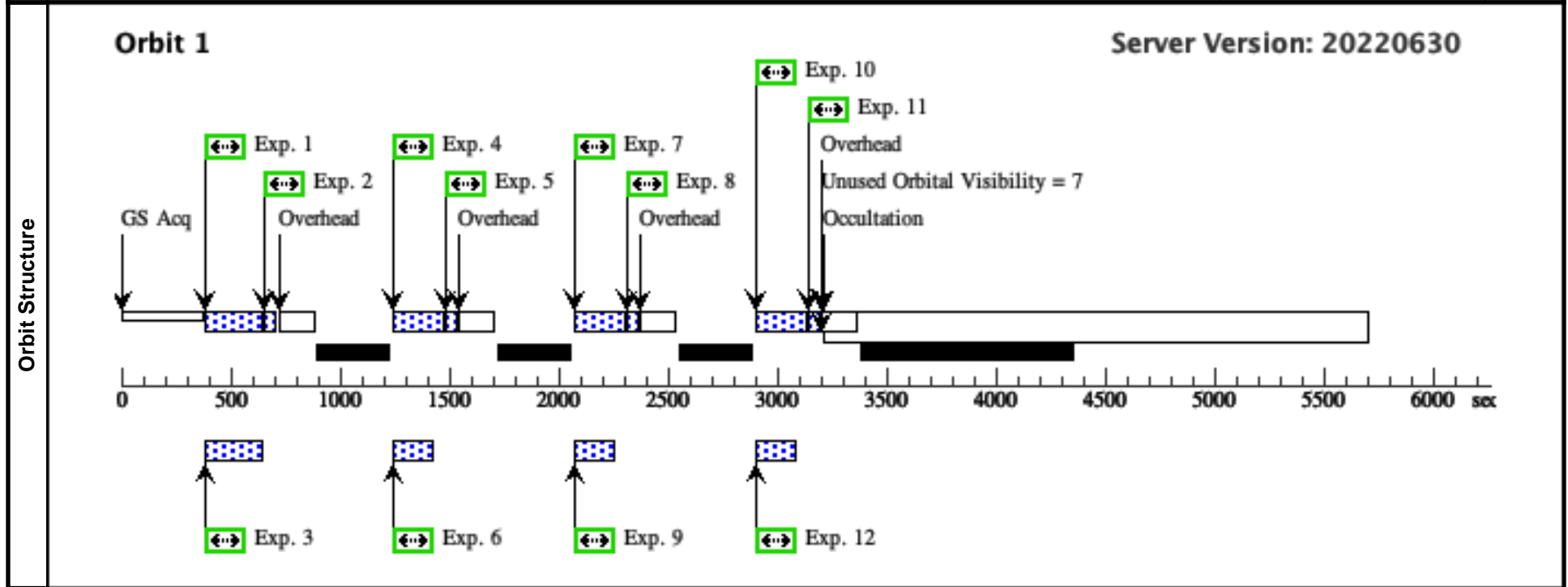
Visit	Proposal 17258, Visit 04 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; BETWEEN 17-JUN-2023:00:00:00 AND 24-JUN-2023:00:00:00 <i>Comments: WFC3/UVIS with ACS in parallel for confocality check. Using WFC3 subarray to allow more exposures during orbit.</i>																
	Diagnosics (Visit 04) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 04) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 04) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (Visit 04) 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 17258 - Visit 04 - HST Cycle 30 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 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 17258 - Visit 04 - HST Cycle 30 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 17258 - Visit 05 - HST Cycle 30 Focus & Optical Monitor

Thu Nov 10 16:02:24 GMT 2022

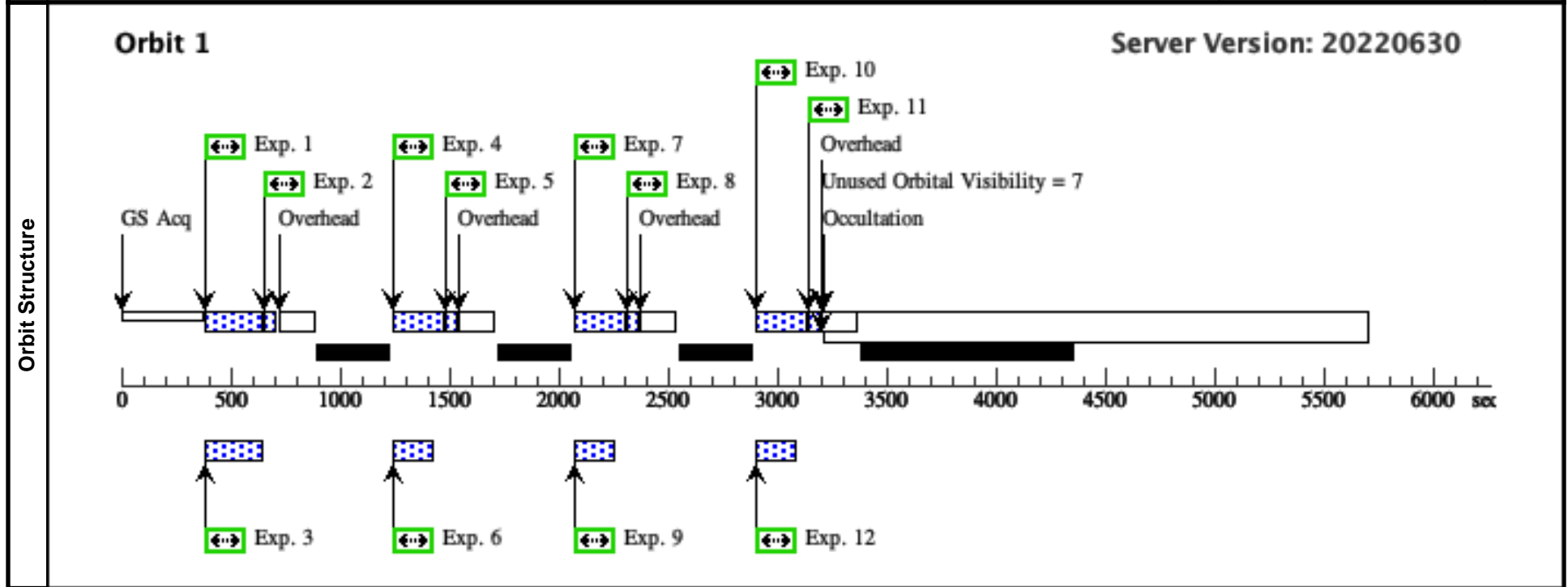
Visit	Proposal 17258, Visit 05 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; BETWEEN 26-AUG-2023:00:00:00 AND 02-SEP-2023:00:00:00 <i>Comments: WFC3/UVIS with ACS in parallel for confocality check. Using WFC3 subarray to allow more exposures during orbit.</i>																
	Diagnosics (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																
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>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	Reference Frame: ICRS
	#	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 17258 - Visit 05 - HST Cycle 30 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 17258 - Visit 05 - HST Cycle 30 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 17258 - Visit 06 - HST Cycle 30 Focus & Optical Monitor

Thu Nov 10 16:02:24 GMT 2022

Visit	Proposal 17258, Visit 06 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; BETWEEN 24-OCT-2023:00:00:00 AND 31-OCT-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>																
	Diagnosics (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																
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>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	Reference Frame: ICRS
	#	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 17258 - Visit 06 - HST Cycle 30 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 17258 - Visit 06 - HST Cycle 30 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]

