



17965 - HST Focus and Optical Monitor

Cycle: 33, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Isabel Rivera (PI) (Contact)	Space Telescope Science Institute
Dr. Jay Anderson (CoI) (Contact)	Space Telescope Science Institute
Dr. Mitchell Revalski (CoI) (Contact)	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	31-Jul-2025 14:00:18.0	yes
02	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	31-Jul-2025 14:00:19.0	yes
03	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	31-Jul-2025 14:00:20.0	yes
04	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	31-Jul-2025 14:00:22.0	yes
05	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	31-Jul-2025 14:00:22.0	yes
06	(1) NGC-188-DENSE ANY	ACS/WFC WFC3/UVIS	1	31-Jul-2025 14:00:23.0	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

In Cycle 30, we converted the standard CAL/OTA monitor to a CAL/WFC3 monitor. Historically, 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.

Starting from this cycle, Cycle 33, we are utilizing an alternative strategy using four full-frame WFC3/UVIS exposures per visit with exposure times seven times longer than the original subarray exposures. This approach provides complete detector coverage across both UVIS chips and enables many of the fainter stars in the field to be viable for phase retrieval analysis.

One orbit every ~2 months with WFC3/UVIS and ACS/WFC in parallel for con-focality check.

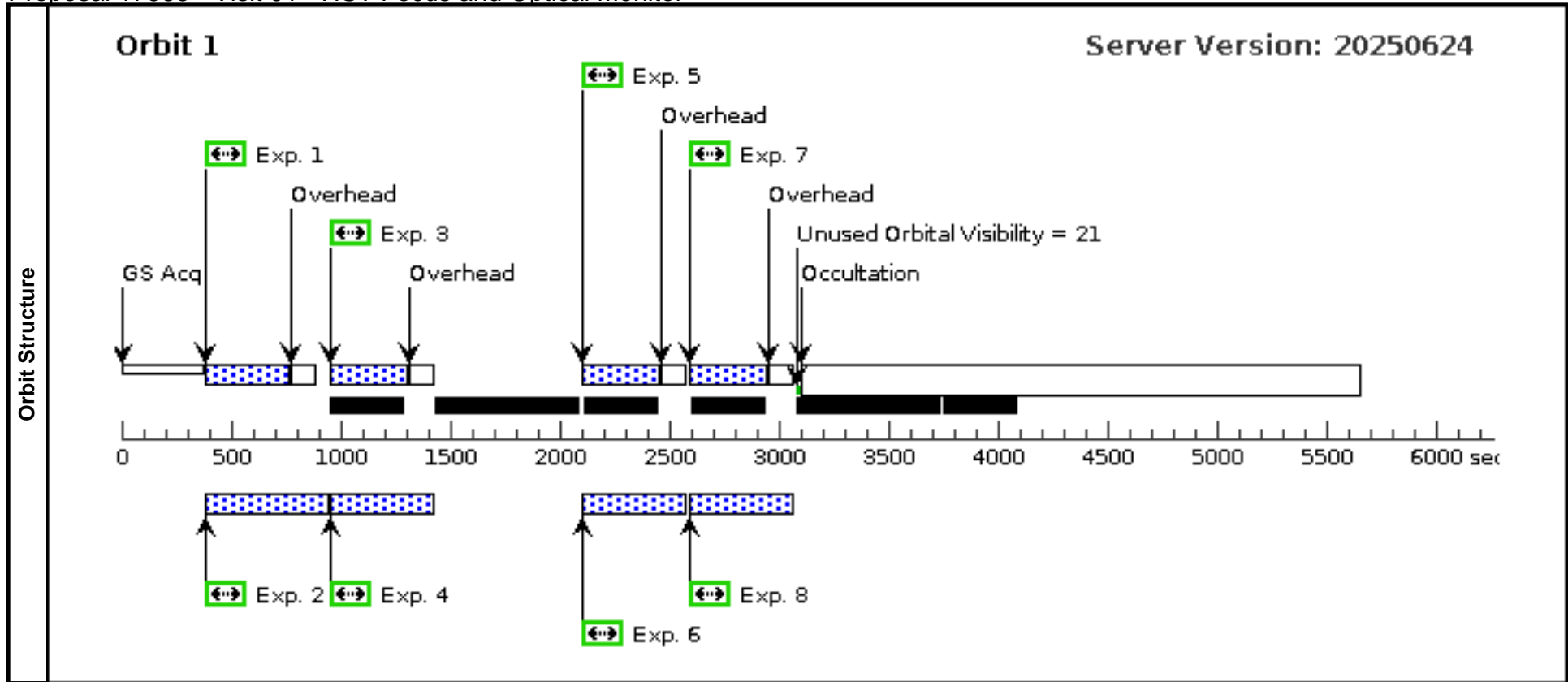
Since deployment, the HST OTA has shrunk by ~150 microns, resulting in over 20 compensating Secondary Mirror (SM) adjustments away from the Primary Mirror to maintain good focus to the science instruments. This program provides the observations to determine when a secondary mirror adjustment is required.

Proposal 17965 - Visit 01 - HST Focus and Optical Monitor

Visit	<p>Proposal 17965, Visit 01 Thu Jul 31 18:00:24 GMT 2025</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SCHED 80%; BETWEEN 14-NOV-2025:00:00:00 AND 21-NOV-2025:00:00:00</p> <p><i>Comments: WFC3/UVIS with ACS in parallel for confocality check.</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(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 17965 - Visit 01 - HST Focus and 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, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 01 Prime + Parallel Group 1-2 in Sequence 1-8 Non-Int in Visit 01	350 Secs (350 Secs) [==>]	[1]
	2	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 01 Prime + Parallel Group 1-2 in Sequence 1-8 Non-Int in Visit 01	350 Secs (350 Secs) [==>]	[1]
	3	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 01 Prime + Parallel Group 3-4 in Sequence 1-8 Non-Int in Visit 01	350 Secs (350 Secs) [==>]	[1]
	4	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 01 Prime + Parallel Group 3-4 in Sequence 1-8 Non-Int in Visit 01	350 Secs (350 Secs) [==>]	[1]
	5	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 01 Prime + Parallel Group 5-6 in Sequence 1-8 Non-Int in Visit 01	350 Secs (350 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 01 Prime + Parallel Group 5-6 in Sequence 1-8 Non-Int in Visit 01	350 Secs (350 Secs) [==>]	[1]
	7	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 01 Prime + Parallel Group 7-8 in Sequence 1-8 Non-Int in Visit 01	350 Secs (350 Secs) [==>]	[1]
	8	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 01 Prime + Parallel Group 7-8 in Sequence 1-8 Non-Int in Visit 01	350 Secs (350 Secs) [==>]	[1]

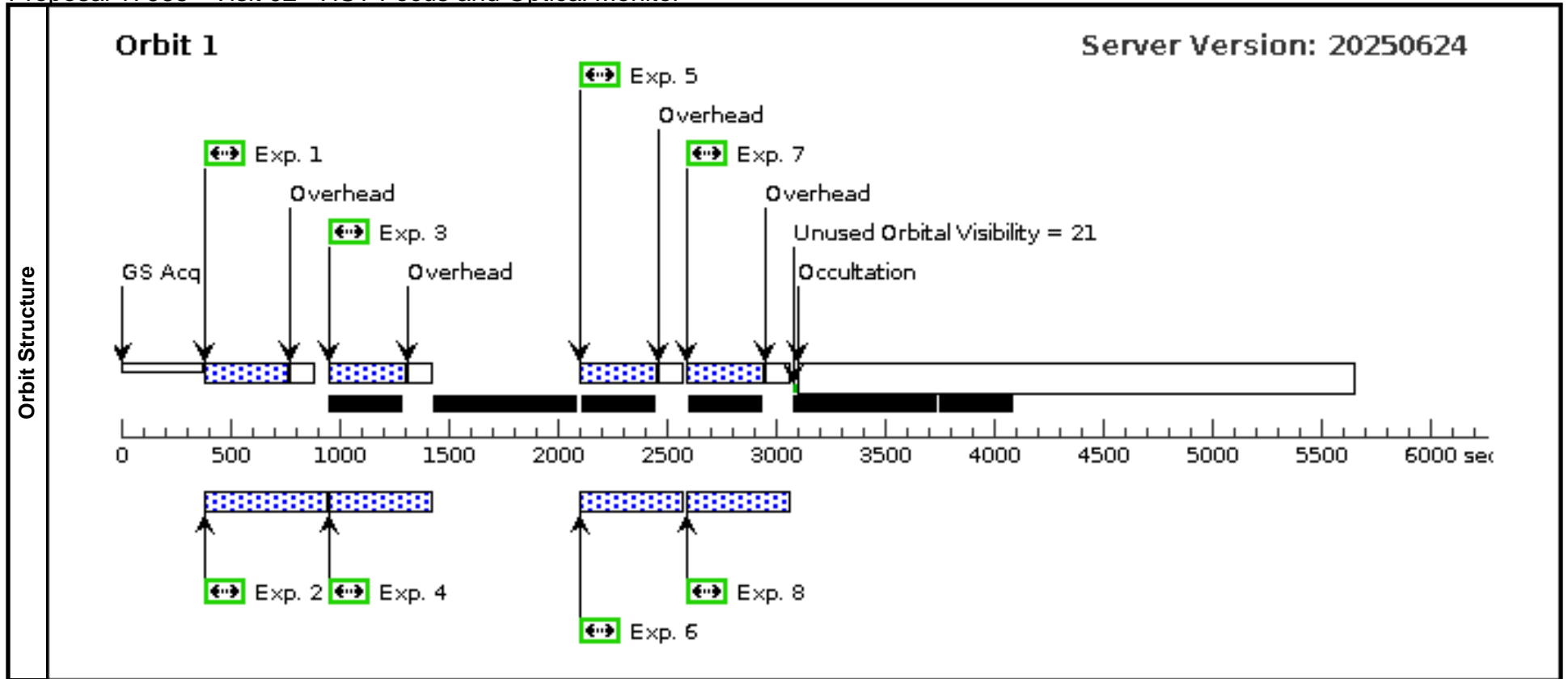


Proposal 17965 - Visit 02 - HST Focus and Optical Monitor

Visit	<p>Proposal 17965, Visit 02 Thu Jul 31 18:00:24 GMT 2025</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SCHED 80%; BETWEEN 10-FEB-2026:00:00:00 AND 17-FEB-2026:00:00:00</p> <p><i>Comments: WFC3/UVIS with ACS in parallel for confocality check.</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(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 17965 - Visit 02 - HST Focus and 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, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 02 Prime + Parallel Group 1-2 in Sequence 1-8 Non-Int in Visit 02	350 Secs (350 Secs) [==>]	[1]
	2	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 02 Prime + Parallel Group 1-2 in Sequence 1-8 Non-Int in Visit 02	350 Secs (350 Secs) [==>]	[1]
	3	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 02 Prime + Parallel Group 3-4 in Sequence 1-8 Non-Int in Visit 02	350 Secs (350 Secs) [==>]	[1]
	4	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 02 Prime + Parallel Group 3-4 in Sequence 1-8 Non-Int in Visit 02	350 Secs (350 Secs) [==>]	[1]
	5	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 02 Prime + Parallel Group 5-6 in Sequence 1-8 Non-Int in Visit 02	350 Secs (350 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 02 Prime + Parallel Group 5-6 in Sequence 1-8 Non-Int in Visit 02	350 Secs (350 Secs) [==>]	[1]
	7	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 02 Prime + Parallel Group 7-8 in Sequence 1-8 Non-Int in Visit 02	350 Secs (350 Secs) [==>]	[1]
	8	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 02 Prime + Parallel Group 7-8 in Sequence 1-8 Non-Int in Visit 02	350 Secs (350 Secs) [==>]	[1]

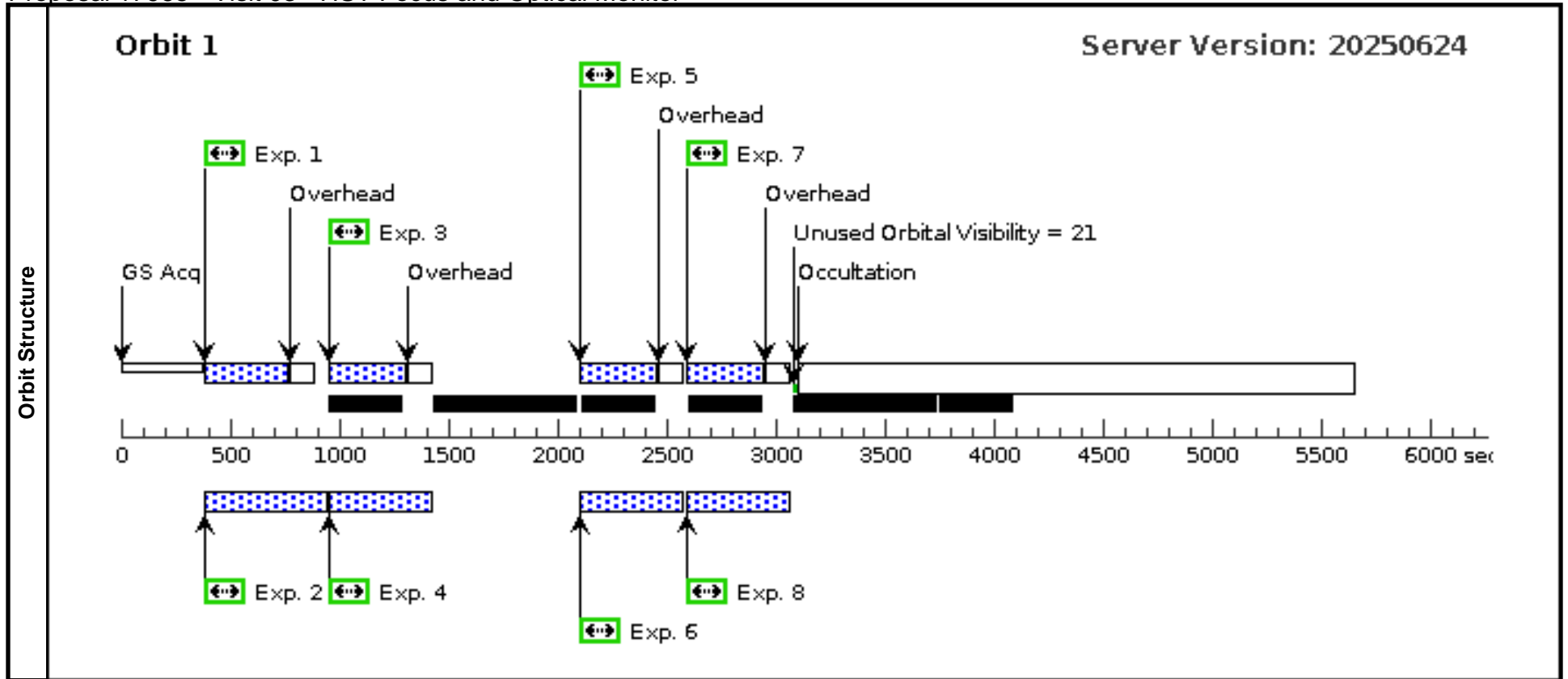


Proposal 17965 - Visit 03 - HST Focus and Optical Monitor

Visit	<p>Proposal 17965, Visit 03 Thu Jul 31 18:00:24 GMT 2025</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SCHED 80%; BETWEEN 03-APR-2026:00:00:00 AND 10-APR-2026:00:00:00</p> <p><i>Comments: WFC3/UVIS with ACS in parallel for confocality check.</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(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 17965 - Visit 03 - HST Focus and 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, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 03 Prime + Parallel Group 1-2 in Sequence 1-8 Non-Int in Visit 03	350 Secs (350 Secs) [==>]	[1]
	2	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 03 Prime + Parallel Group 1-2 in Sequence 1-8 Non-Int in Visit 03	350 Secs (350 Secs) [==>]	[1]
	3	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 03 Prime + Parallel Group 3-4 in Sequence 1-8 Non-Int in Visit 03	350 Secs (350 Secs) [==>]	[1]
	4	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 03 Prime + Parallel Group 3-4 in Sequence 1-8 Non-Int in Visit 03	350 Secs (350 Secs) [==>]	[1]
	5	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 03 Prime + Parallel Group 5-6 in Sequence 1-8 Non-Int in Visit 03	350 Secs (350 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 03 Prime + Parallel Group 5-6 in Sequence 1-8 Non-Int in Visit 03	350 Secs (350 Secs) [==>]	[1]
	7	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 03 Prime + Parallel Group 7-8 in Sequence 1-8 Non-Int in Visit 03	350 Secs (350 Secs) [==>]	[1]
	8	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 03 Prime + Parallel Group 7-8 in Sequence 1-8 Non-Int in Visit 03	350 Secs (350 Secs) [==>]	[1]

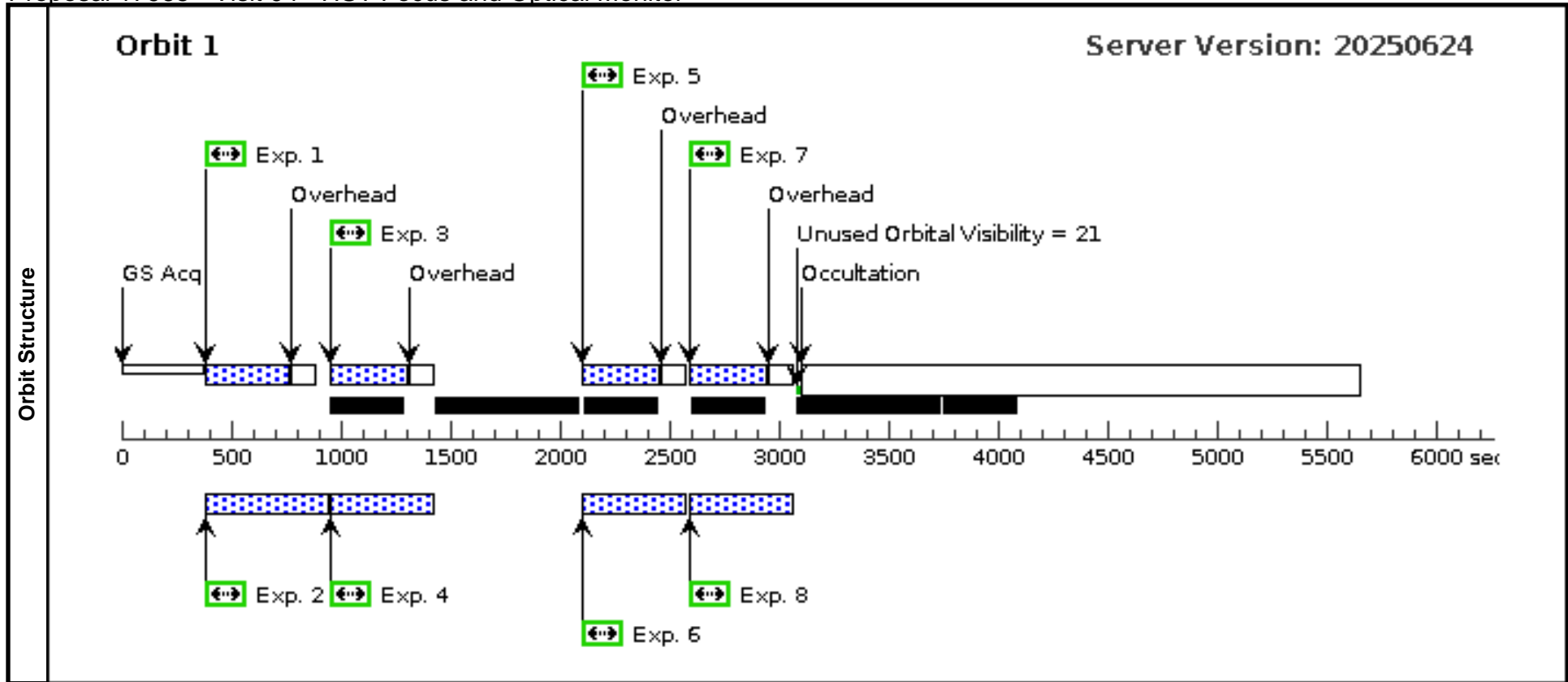


Proposal 17965 - Visit 04 - HST Focus and Optical Monitor

Visit	<p>Proposal 17965, Visit 04 Thu Jul 31 18:00:24 GMT 2025</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SCHED 80%; BETWEEN 28-JUN-2026:00:00:00 AND 05-JUL-2026:00:00:00</p> <p><i>Comments: WFC3/UVIS with ACS in parallel for confocality check.</i></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>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> <p><i>Comments: magnitude not relevant</i> <i>Category=STELLAR CLUSTER</i> <i>Description=[OPEN CLUSTER]</i> <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
#	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								

Proposal 17965 - Visit 04 - HST Focus and 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, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 04 Prime + Parallel Group 1-2 in Sequence 1-8 Non-Int in Visit 04	350 Secs (350 Secs) [==>]	[1]
	2	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 04 Prime + Parallel Group 1-2 in Sequence 1-8 Non-Int in Visit 04	350 Secs (350 Secs) [==>]	[1]
	3	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 04 Prime + Parallel Group 3-4 in Sequence 1-8 Non-Int in Visit 04	350 Secs (350 Secs) [==>]	[1]
	4	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 04 Prime + Parallel Group 3-4 in Sequence 1-8 Non-Int in Visit 04	350 Secs (350 Secs) [==>]	[1]
	5	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 04 Prime + Parallel Group 5-6 in Sequence 1-8 Non-Int in Visit 04	350 Secs (350 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 04 Prime + Parallel Group 5-6 in Sequence 1-8 Non-Int in Visit 04	350 Secs (350 Secs) [==>]	[1]
	7	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 04 Prime + Parallel Group 7-8 in Sequence 1-8 Non-Int in Visit 04	350 Secs (350 Secs) [==>]	[1]
	8	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 04 Prime + Parallel Group 7-8 in Sequence 1-8 Non-Int in Visit 04	350 Secs (350 Secs) [==>]	[1]

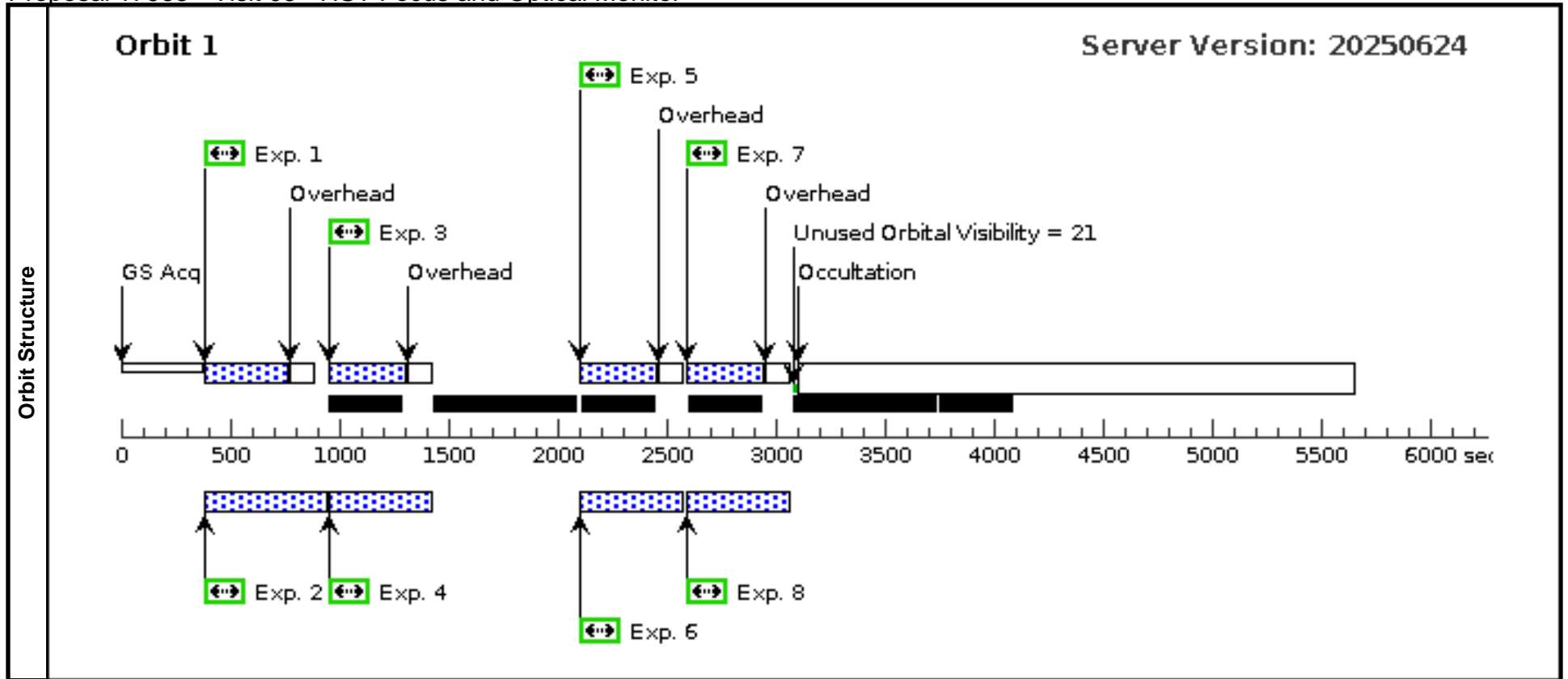


Proposal 17965 - Visit 05 - HST Focus and Optical Monitor

Visit	<p>Proposal 17965, Visit 05 Thu Jul 31 18:00:24 GMT 2025</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SCHED 80%; BETWEEN 16-AUG-2026:00:00:00 AND 23-AUG-2026:00:00:00</p> <p><i>Comments: WFC3/UVIS with ACS in parallel for confocality check.</i></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>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> <p><i>Comments: magnitude not relevant</i> <i>Category=STELLAR CLUSTER</i> <i>Description=[OPEN CLUSTER]</i> <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
#	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								

Proposal 17965 - Visit 05 - HST Focus and 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, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 05 Prime + Parallel Group 1-2 in Sequence 1-8 Non-Int in Visit 05	350 Secs (350 Secs) [==>]	[1]
	2	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 05 Prime + Parallel Group 1-2 in Sequence 1-8 Non-Int in Visit 05	350 Secs (350 Secs) [==>]	[1]
	3	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 05 Prime + Parallel Group 3-4 in Sequence 1-8 Non-Int in Visit 05	350 Secs (350 Secs) [==>]	[1]
	4	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 05 Prime + Parallel Group 3-4 in Sequence 1-8 Non-Int in Visit 05	350 Secs (350 Secs) [==>]	[1]
	5	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 05 Prime + Parallel Group 5-6 in Sequence 1-8 Non-Int in Visit 05	350 Secs (350 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 05 Prime + Parallel Group 5-6 in Sequence 1-8 Non-Int in Visit 05	350 Secs (350 Secs) [==>]	[1]
	7	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 05 Prime + Parallel Group 7-8 in Sequence 1-8 Non-Int in Visit 05	350 Secs (350 Secs) [==>]	[1]
	8	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 05 Prime + Parallel Group 7-8 in Sequence 1-8 Non-Int in Visit 05	350 Secs (350 Secs) [==>]	[1]



Proposal 17965 - Visit 06 - HST Focus and Optical Monitor

Visit	Proposal 17965, Visit 06 Thu Jul 31 18:00:24 GMT 2025 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; BETWEEN 03-OCT-2026:00:00:00 AND 10-OCT-2026:00:00:00 Comments: WFC3/UVIS with ACS in parallel for confocality check.					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(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
Comments: magnitude not relevant Category=STELLAR CLUSTER Description=[OPEN CLUSTER] Extended=NO						

Proposal 17965 - Visit 06 - HST Focus and 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, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 06 Prime + Parallel Group 1-2 in Sequence 1-8 Non-Int in Visit 06	350 Secs (350 Secs) [==>]	[1]
	2	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 06 Prime + Parallel Group 1-2 in Sequence 1-8 Non-Int in Visit 06	350 Secs (350 Secs) [==>]	[1]
	3	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 06 Prime + Parallel Group 3-4 in Sequence 1-8 Non-Int in Visit 06	350 Secs (350 Secs) [==>]	[1]
	4	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 06 Prime + Parallel Group 3-4 in Sequence 1-8 Non-Int in Visit 06	350 Secs (350 Secs) [==>]	[1]
	5	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 06 Prime + Parallel Group 5-6 in Sequence 1-8 Non-Int in Visit 06	350 Secs (350 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 06 Prime + Parallel Group 5-6 in Sequence 1-8 Non-Int in Visit 06	350 Secs (350 Secs) [==>]	[1]
	7	(1) NGC-188-DENSE	WFC3/UVIS, ACCUM, UVIS	F410M	CR-SPLIT=NO; FLASH=20	POS TARG 0.0,-41.0	Sequence 1-8 Non-Int in Visit 06 Prime + Parallel Group 7-8 in Sequence 1-8 Non-Int in Visit 06	350 Secs (350 Secs) [==>]	[1]
	8	ANY	ACS/WFC, ACCUM, WFC	F502N			Sequence 1-8 Non-Int in Visit 06 Prime + Parallel Group 7-8 in Sequence 1-8 Non-Int in Visit 06	350 Secs (350 Secs) [==>]	[1]

