



17918 - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular clusters

Cycle: 32, Proposal Category: GO

(Availability Mode: SUPPORTED)

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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) GLIMPSE-C02 | WFC3/IR | 1 | 16-May-2025 16:00:16.0 | yes |
| 02 | (2) VVV-CL160 | WFC3/IR | 1 | 16-May-2025 16:00:17.0 | yes |
| 03 | (3) IC-1276 | WFC3/IR | 1 | 16-May-2025 16:00:17.0 | yes |

Proposal 17918 (STScI Edit Number: 1, Created: Friday, May 16, 2025, 3:00:26PM Eastern Standard Time) - Overview

| <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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 12 | (3) IC-1276 | WFC3/IR | 1 | 16-May-2025 16:00:18.0 | yes |
| 04 | (4) VVV-CL005 | WFC3/IR | 1 | 16-May-2025 16:00:19.0 | yes |
| 13 | (4) VVV-CL005 | WFC3/IR | 1 | 16-May-2025 16:00:20.0 | yes |
| 05 | (5) RYU-059 | WFC3/IR | 1 | 16-May-2025 16:00:20.0 | yes |
| 06 | (6) NAME-2MASS-GC04 | WFC3/IR | 1 | 16-May-2025 16:00:21.0 | yes |
| 07 | (7) FSR2007-0584 | WFC3/IR | 1 | 16-May-2025 16:00:22.0 | yes |
| 08 | (8) FSR2007-0190 | WFC3/IR | 1 | 16-May-2025 16:00:23.0 | yes |
| 09 | (9) NAME-PWM-2 | WFC3/IR | 1 | 16-May-2025 16:00:24.0 | yes |
| 10 | (10) VVV-CL003 | WFC3/IR | 1 | 16-May-2025 16:00:25.0 | yes |
| 11 | (11) DSH-J1810.3-2320 | WFC3/IR | 1 | 16-May-2025 16:00:25.0 | yes |

13 Total Orbits Used

ABSTRACT

Globular clusters (GCs) are among the oldest known stellar systems in our Galaxy. They are regarded as tracers of the early evolution of the Milky Way (MW), providing important insights into its formation and assembly history. Recently, two peculiar stellar systems in the MW bulge, Terzan 5 and Liller 1, have been found to exhibit properties that are not typical of genuine GCs, such as the presence of multi-iron and/or multi-age subpopulations. Their properties suggest that they could be fossil remnants of more massive structures that contributed to the formation of the bulge. Such outstanding discoveries reinforce the urgency to extend the investigation of the GC population in the MW to include several GCs that have been poorly studied because located in observationally challenging regions. Here we propose a program aimed at an accurate photometric characterization of a sample of 12 clusters located in the most extinct regions of the MW disk and bulge. We plan to observe 12 clusters for the first time with HST, taking advantage of the near-IR capabilities of the WFC3/IR camera to characterize their stellar populations in terms of age, reddening, distance and photometric metallicity. This will allow us to infer whether they are genuine GCs or more exotic systems such as Terzan 5 and Liller 1. In the latter case, these systems would provide invaluable insights into the formation and evolution of the MW. These observations would also have important archival value, as these clusters are not observable with WFC3/UVIS due to their extreme extinction, while their stellar populations would promptly saturate in JWST observations due to their relatively small distances from Earth.

OBSERVING DESCRIPTION

The aim of this proposal is to perform an accurate photometric characterization of a sample of 11 globular clusters (GCs) located in the most extinct regions of the MW disk and bulge using WFC3/IR observations to characterize their stellar populations. We plan to organize the observations into a single visit of one HST orbit for each of the 11 GCs, with a total of 11 visits and orbits.

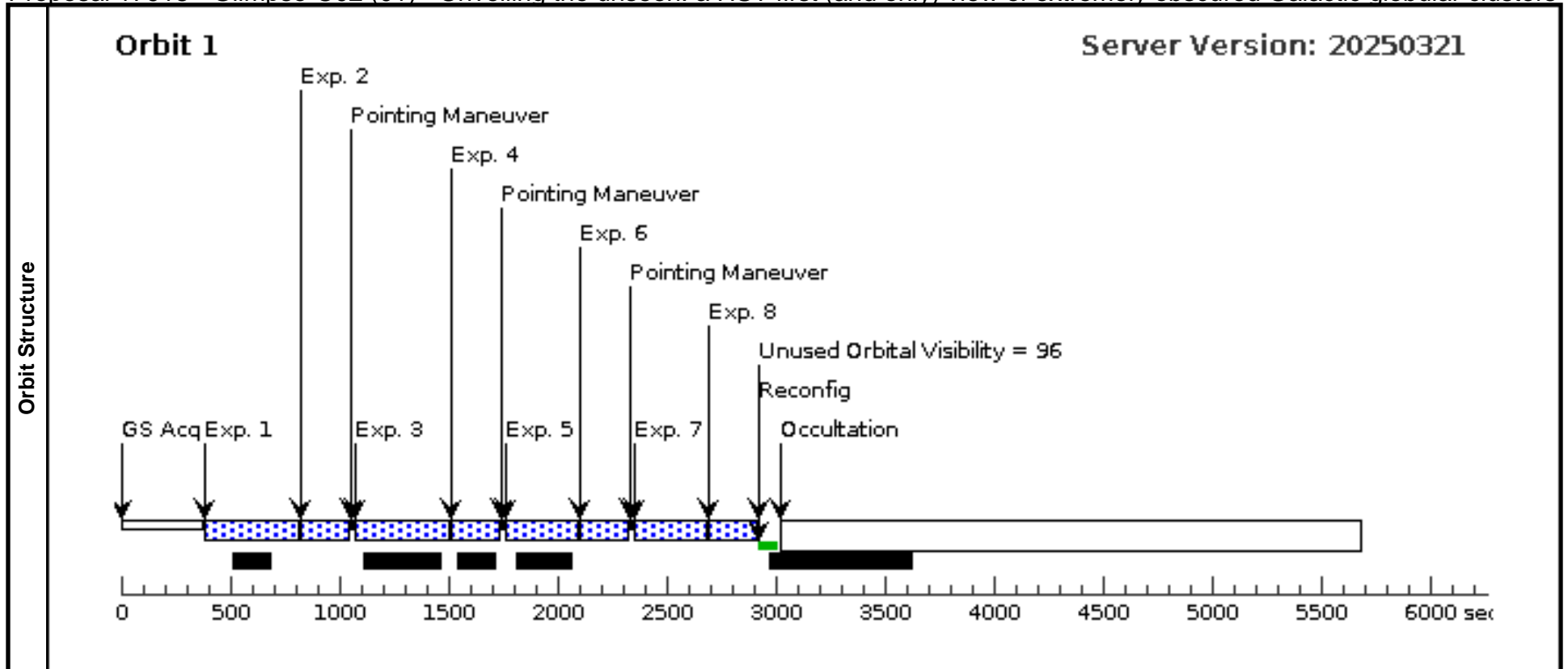
Each orbit includes a combination of images obtained in the F110W and F160W filters using the IR-FIX aperture with a SAMP-SEQ=STEP25 and NSAMP=9-10 for 7 out of the 11 GCs (namely: VVV-CL160, IC-1276, RYU-059, FSR2007-0190, NAME-PWM-2, VVV-CL003, DSH-J180.3-2320).

In the case of Glimpse C02, due to its extreme extinction, we plan to use a SAMP-SEQ=STEP100 and NSAMP=8-10 while for the remaining 3 GCs (namely, VVV-CL005, NAME-2MASS-GC04, FSR2007-0584) due to their relatively close distance to the Sun, we set SAMP-SEQ=RAPID and NSAMP=13-15. We apply small shifts among different exposures using POS_TARG.

Proposal 17918 - Glimpse-C02 (01) - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular clusters

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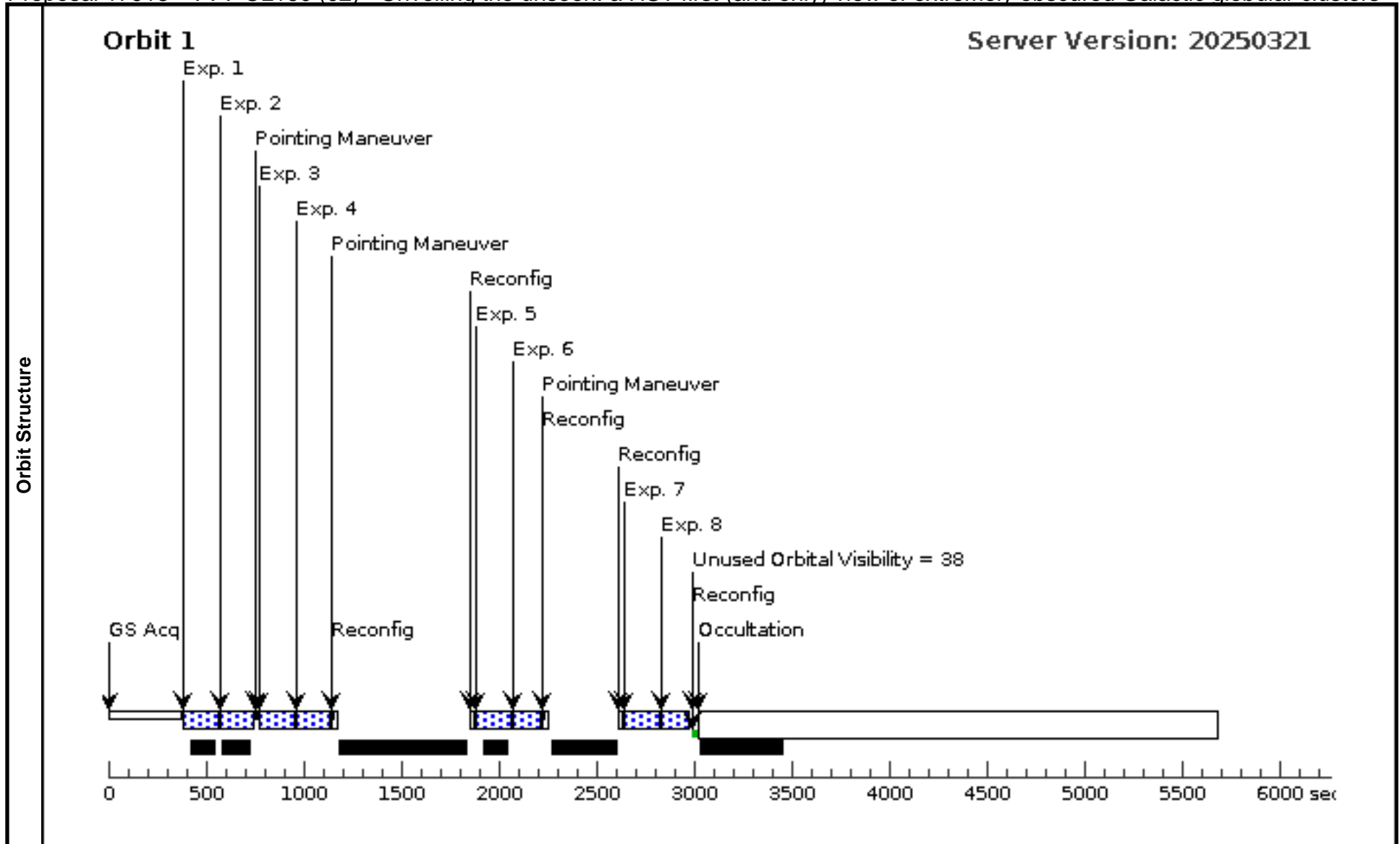
| Visit | Proposal 17918, Glimpse-C02 (01), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
|-----------|--|-------------|--|-----------------------------|--------------------------|-----------------------------------|---------------|--------|---|-------|
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | |
| | (1) | GLIMPSE-C02 | RA: 18 18 30.5000 (274.6270833d) Dec: -16 58 38.00 (-16.97722d) Equinox: J2000 | Epoch of Position: 2000 | V=(?) K=18 | Reference Frame: ICRS | | | | |
| | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F110W | (1) GLIMPSE-C02 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP1 00; NSAMP=10 | | | 399.231646 Secs (399.232 Secs) [==>] | [1] |
| | 2 | F160W | (1) GLIMPSE-C02 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=8; SAMP-SEQ=STEP1 00 | | | 199.231 Secs (199.231 Secs) [==>] | [1] |
| | 3 | F110W | (1) GLIMPSE-C02 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP1 00; NSAMP=10 | POS TARG 1,1 | | 399.231646 Secs (399.232 Secs) [==>] | [1] |
| | 4 | F160W | (1) GLIMPSE-C02 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=8; SAMP-SEQ=STEP1 00 | POS TARG 1,1 | | 199.231 Secs (199.231 Secs) [==>] | [1] |
| | 5 | F110W | (1) GLIMPSE-C02 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP1 00; NSAMP=9 | POS TARG 2,2 | | 299.231323 Secs (299.231 Secs) [==>] | [1] |
| | 6 | F160W | (1) GLIMPSE-C02 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | SAMP-SEQ=STEP1 00; NSAMP=8 | POS TARG 2,2 | | 199.231 Secs (199.231 Secs) [==>] | [1] |
| | 7 | F110W | (1) GLIMPSE-C02 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP1 00; NSAMP=9 | POS TARG 3,3 | | 299.231323 Secs (299.231 Secs) [==>] | [1] |
| | 8 | F160W | (1) GLIMPSE-C02 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | SAMP-SEQ=STEP1 00; NSAMP=8 | POS TARG 3,3 | | 199.231 Secs (199.231 Secs) [==>] | [1] |



Proposal 17918 - VVV-CL160 (02) - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular clusters

Fri May 16 20:00:26 GMT 2025

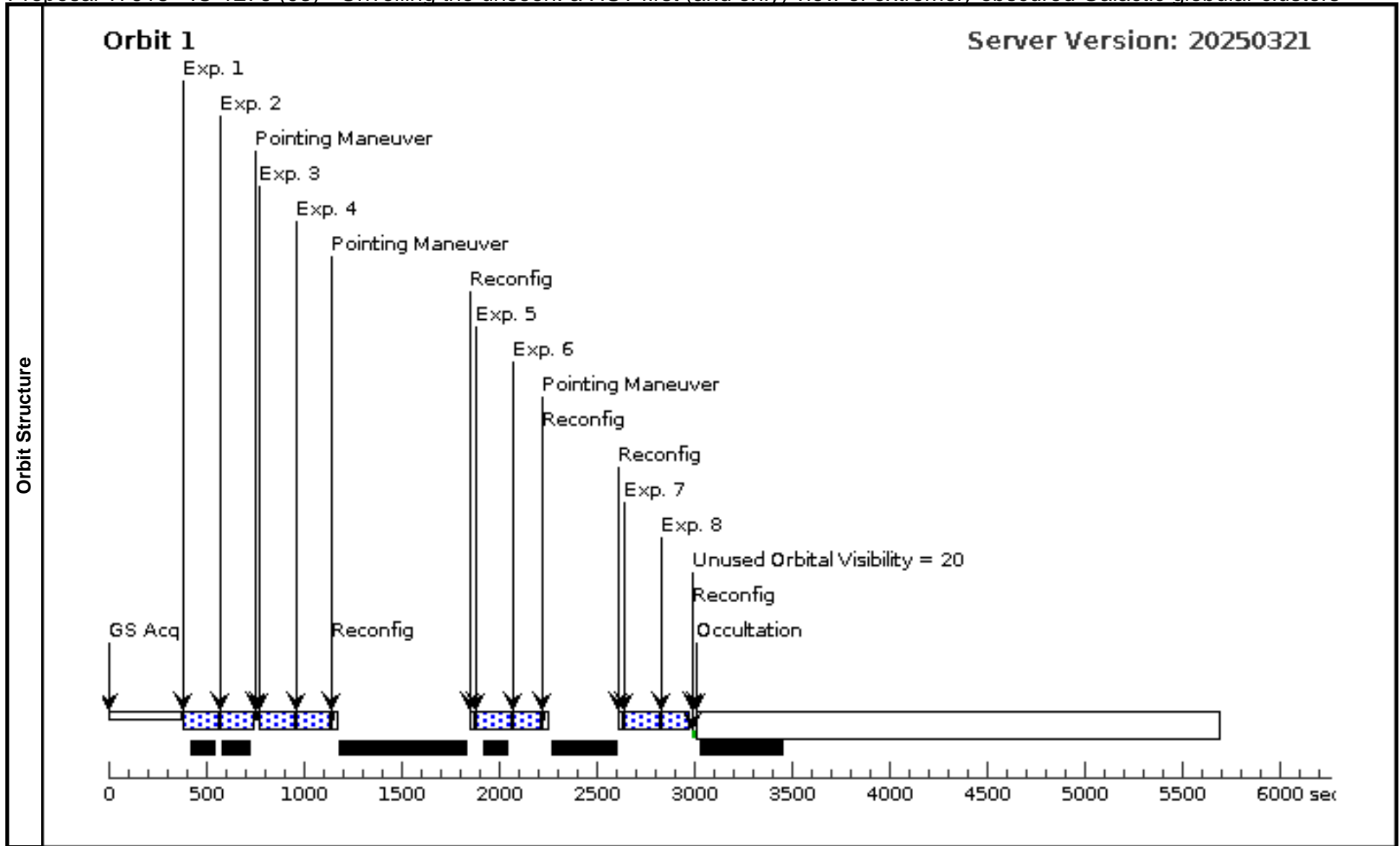
| Visit | Proposal 17918, VVV-CL160 (02), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
|---------------|---|-----------|--|---|---------------|----------------------------------|---------------|--------|---|-------|
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (2) | VVV-CL160 | RA: 18 06 57.0000 (271.7375000d) Dec: -20 00 40.00 (-20.01111d) Equinox: J2000 | Proper Motion RA: -2.9 mas/yr Proper Motion Dec: -16.469999968649063 mas/yr Epoch of Position: 2000 | V=15.60 | Reference Frame: ICRS | | | | |
| | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F110W | (2) VVV-CL160 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 2 | F160W | (2) VVV-CL160 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 3 | F110W | (2) VVV-CL160 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 4 | F160W | (2) VVV-CL160 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 5 | F110W | (2) VVV-CL160 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 2,2 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 6 | F160W | (2) VVV-CL160 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 2,2 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |
| | 7 | F110W | (2) VVV-CL160 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 3,3 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 8 | F160W | (2) VVV-CL160 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 3,3 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |



Proposal 17918 - IC-1276 (03) - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular clusters

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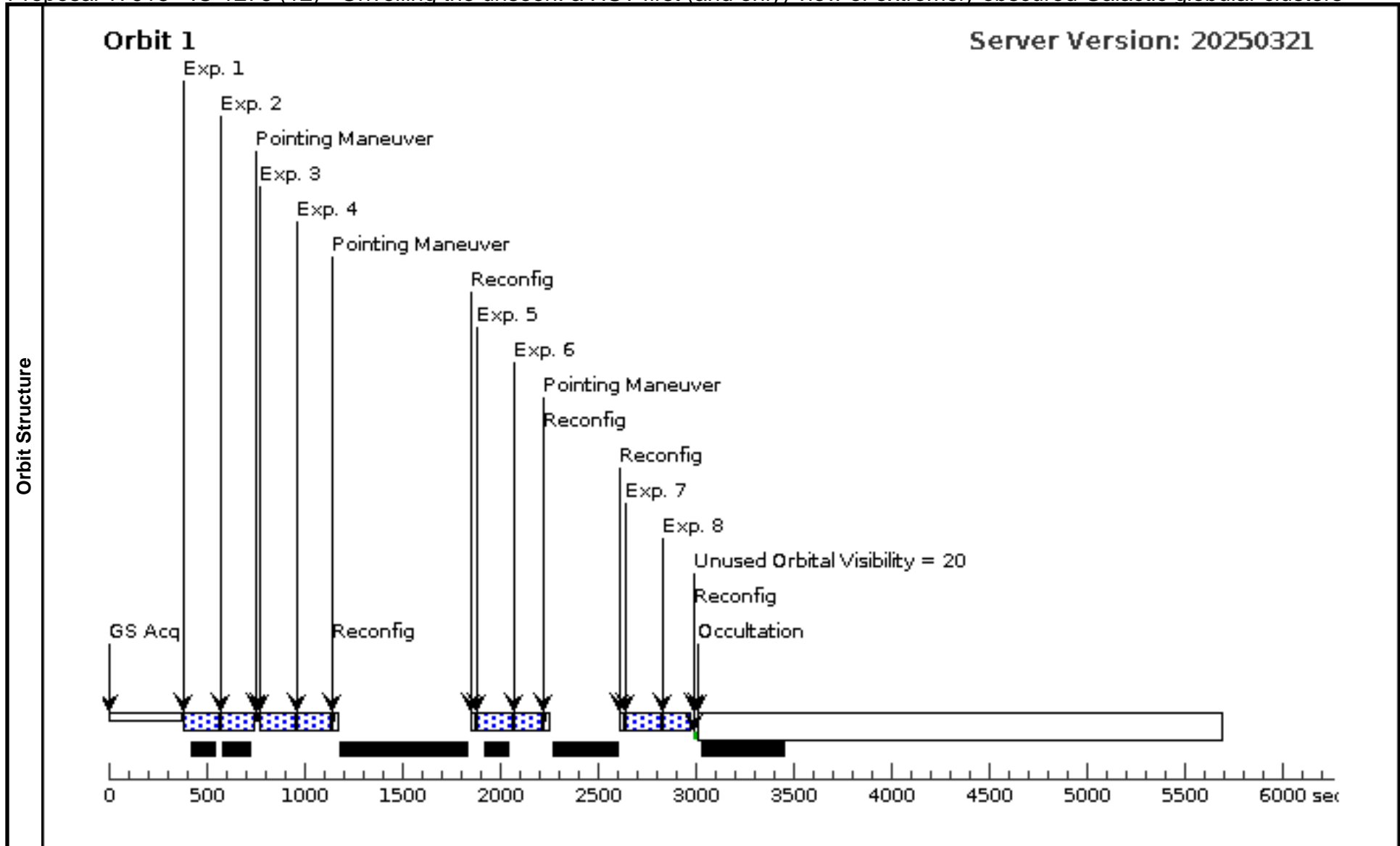
| Visit | Proposal 17918, IC-1276 (03), failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
|---------------|---|---------|---|--|---------------|----------------------------------|---------------|--------|---|-------|
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (3) | IC-1276 | RA: 18 10 44.2600 (272.6844167d) Dec: -07 12 27.30 (-7.20758d) Equinox: J2000 | Proper Motion RA: -2.553 mas/yr Proper Motion Dec: -4.567999917526322 mas/yr Parallax: 2.09999999999998E-4" Epoch of Position: 2000 | V=9.92 | Reference Frame: ICRS | | | | |
| | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F110W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 2 | F160W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 3 | F110W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 4 | F160W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 5 | F110W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 2,2 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 6 | F160W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 2,2 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |
| | 7 | F110W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 3,3 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 8 | F160W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 3,3 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |



Proposal 17918 - IC-1276 (12) - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular clusters

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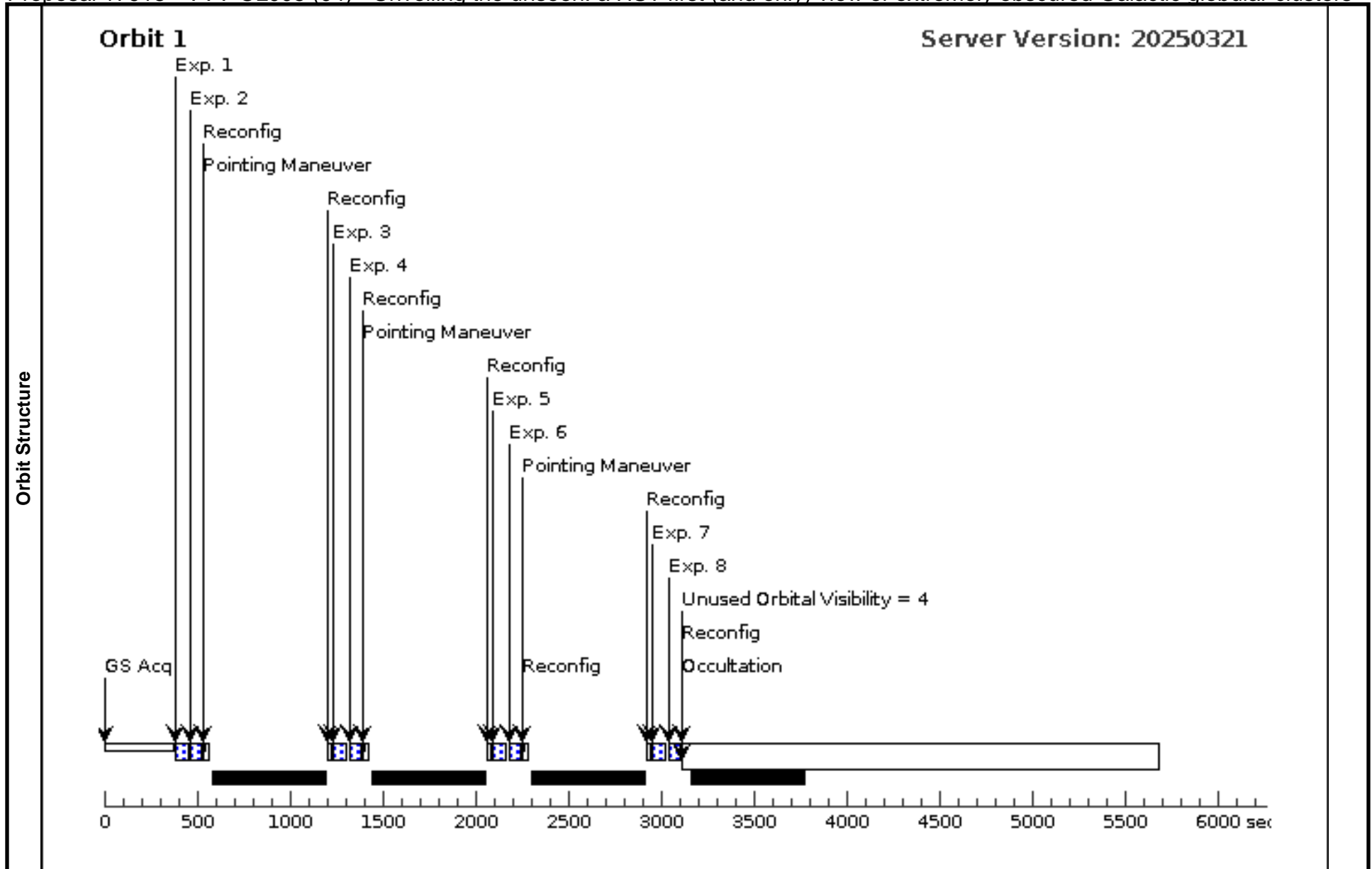
| Visit | Proposal 17918, IC-1276 (12) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
|---------------|---|---------|---|--|---------------|----------------------------------|---------------|--------|---|-------|
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (3) | IC-1276 | RA: 18 10 44.2600 (272.6844167d) Dec: -07 12 27.30 (-7.20758d) Equinox: J2000 | Proper Motion RA: -2.553 mas/yr Proper Motion Dec: -4.567999917526322 mas/yr Parallax: 2.09999999999998E-4" Epoch of Position: 2000 | V=9.92 | Reference Frame: ICRS | | | | |
| | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F110W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 2 | F160W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 3 | F110W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 4 | F160W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 5 | F110W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 2,2 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 6 | F160W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 2,2 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |
| | 7 | F110W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 3,3 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 8 | F160W | (3) IC-1276 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 3,3 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |



Proposal 17918 - VVV-CL005 (04) - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular clusters

Fri May 16 20:00:26 GMT 2025

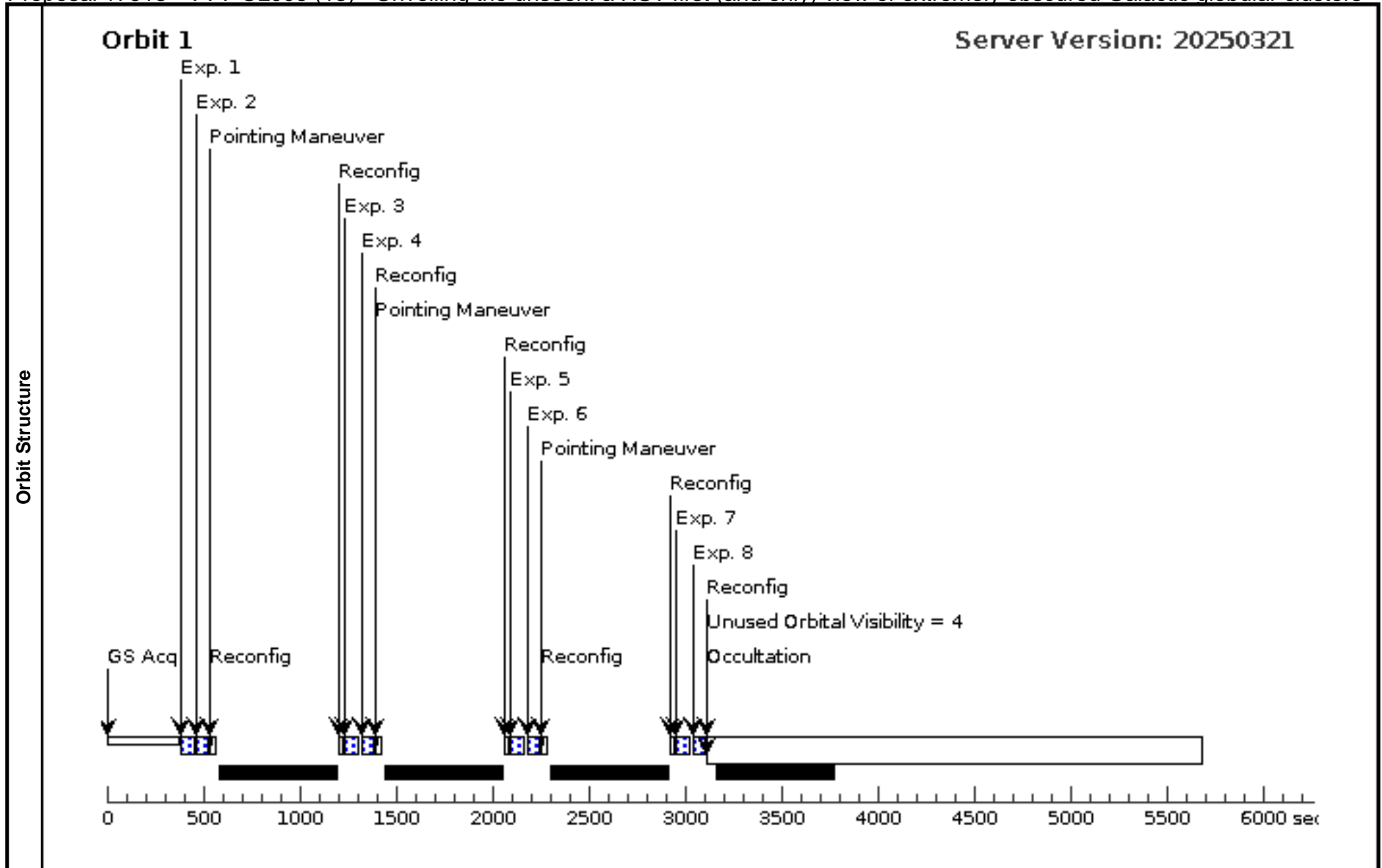
| Visit | Proposal 17918, VVV-CL005 (04), failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
|-----------|--|---------------|--|-----------------------------|--------------------------|-----------------------|---------------|------------------------------|---------------------------------|-------|
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | |
| | (4) | VVV-CL005 | RA: 11 38 59.0000 (174.7458333d) Dec: -63 28 42.00 (-63.47833d) Equinox: J2000 | Epoch of Position: 2000 | V=13.06 | Reference Frame: ICRS | | | | |
| | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F110W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID ; | | | 43.984365 Secs (43.984 Secs) | |
| | | | | | | NSAMP=15 | | | [==>] | [1] |
| | 2 | F160W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; | | | 41.052074 Secs (41.052 Secs) | |
| | | | | | | SAMP-SEQ=RAPID | | | [==>] | [1] |
| | 3 | F110W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID | POS TARG 1,1 | | 43.984365 Secs (43.984 Secs) | |
| | | | | | | ; | | | [==>] | [1] |
| | | | | | | NSAMP=15 | | | | |
| | 4 | F160W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; | | POS TARG 1,1 | 41.052074 Secs (41.052 Secs) | |
| | | | | | SAMP-SEQ=RAPID | | | [==>] | [1] | |
| | | | | | D | | | | | |
| 5 | F110W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID | POS TARG 2,2 | | 43.984365 Secs (43.984 Secs) | | |
| | | | | | ; | | | [==>] | [1] | |
| | | | | | NSAMP=15 | | | | | |
| 6 | F160W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; | | POS TARG 2,2 | 41.052074 Secs (41.052 Secs) | | |
| | | | | | SAMP-SEQ=RAPID | | | [==>] | [1] | |
| | | | | | D | | | | | |
| 7 | F110W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID | POS TARG 3,3 | | 43.984365 Secs (43.984 Secs) | | |
| | | | | | ; | | | [==>] | [1] | |
| | | | | | NSAMP=15 | | | | | |
| 8 | F160W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; | | POS TARG 3,3 | 41.052074 Secs (41.052 Secs) | | |
| | | | | | SAMP-SEQ=RAPID | | | [==>] | [1] | |
| | | | | | D | | | | | |



Proposal 17918 - VVV-CL005 (13) - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular clusters

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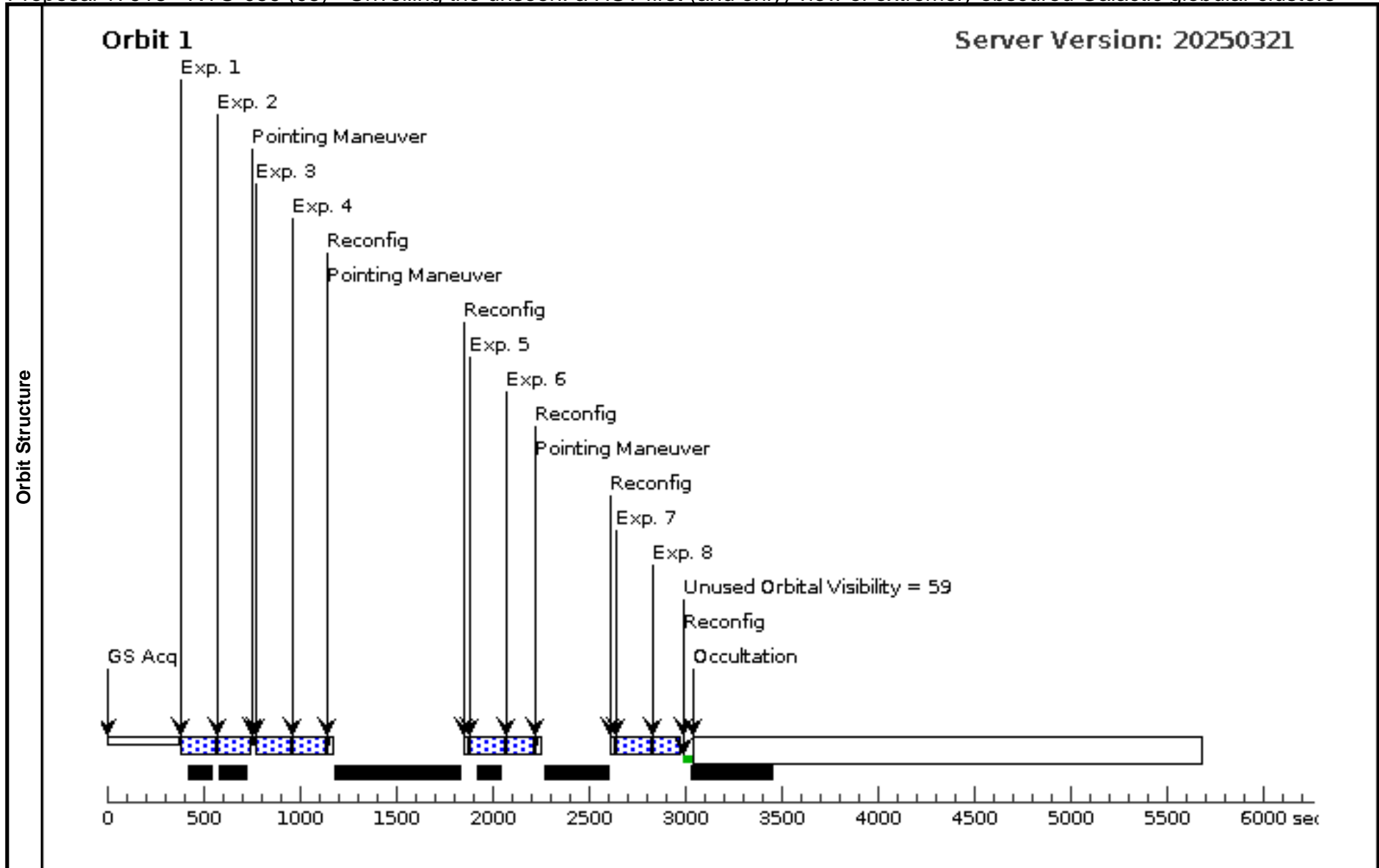
| Visit | Proposal 17918, VVV-CL005 (13) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
|-----------|--|-----------|--|-----------------------------|--------------------------|---------------------------------|---------------|--------|---------------------------------------|-------|
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | |
| | (4) | VVV-CL005 | RA: 11 38 59.0000 (174.7458333d) Dec: -63 28 42.00 (-63.47833d) Equinox: J2000 | Epoch of Position: 2000 | V=13.06 | Reference Frame: ICRS | | | | |
| | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F110W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID ; NSAMP=15 | | | 43.984365 Secs (43.984 Secs) [==>] | [1] |
| | 2 | F160W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; SAMP-SEQ=RAPID | | | 41.052074 Secs (41.052 Secs) [==>] | [1] |
| | 3 | F110W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID ; NSAMP=15 | POS TARG 1,1 | | 43.984365 Secs (43.984 Secs) [==>] | [1] |
| | 4 | F160W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; SAMP-SEQ=RAPID | POS TARG 1,1 | | 41.052074 Secs (41.052 Secs) [==>] | [1] |
| | 5 | F110W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID ; NSAMP=15 | POS TARG 2,2 | | 43.984365 Secs (43.984 Secs) [==>] | [1] |
| | 6 | F160W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; SAMP-SEQ=RAPID | POS TARG 2,2 | | 41.052074 Secs (41.052 Secs) [==>] | [1] |
| | 7 | F110W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID ; NSAMP=15 | POS TARG 3,3 | | 43.984365 Secs (43.984 Secs) [==>] | [1] |
| | 8 | F160W | (4) VVV-CL005 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; SAMP-SEQ=RAPID | POS TARG 3,3 | | 41.052074 Secs (41.052 Secs) [==>] | [1] |



Proposal 17918 - RYU-059 (05) - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular clusters

Fri May 16 20:00:26 GMT 2025

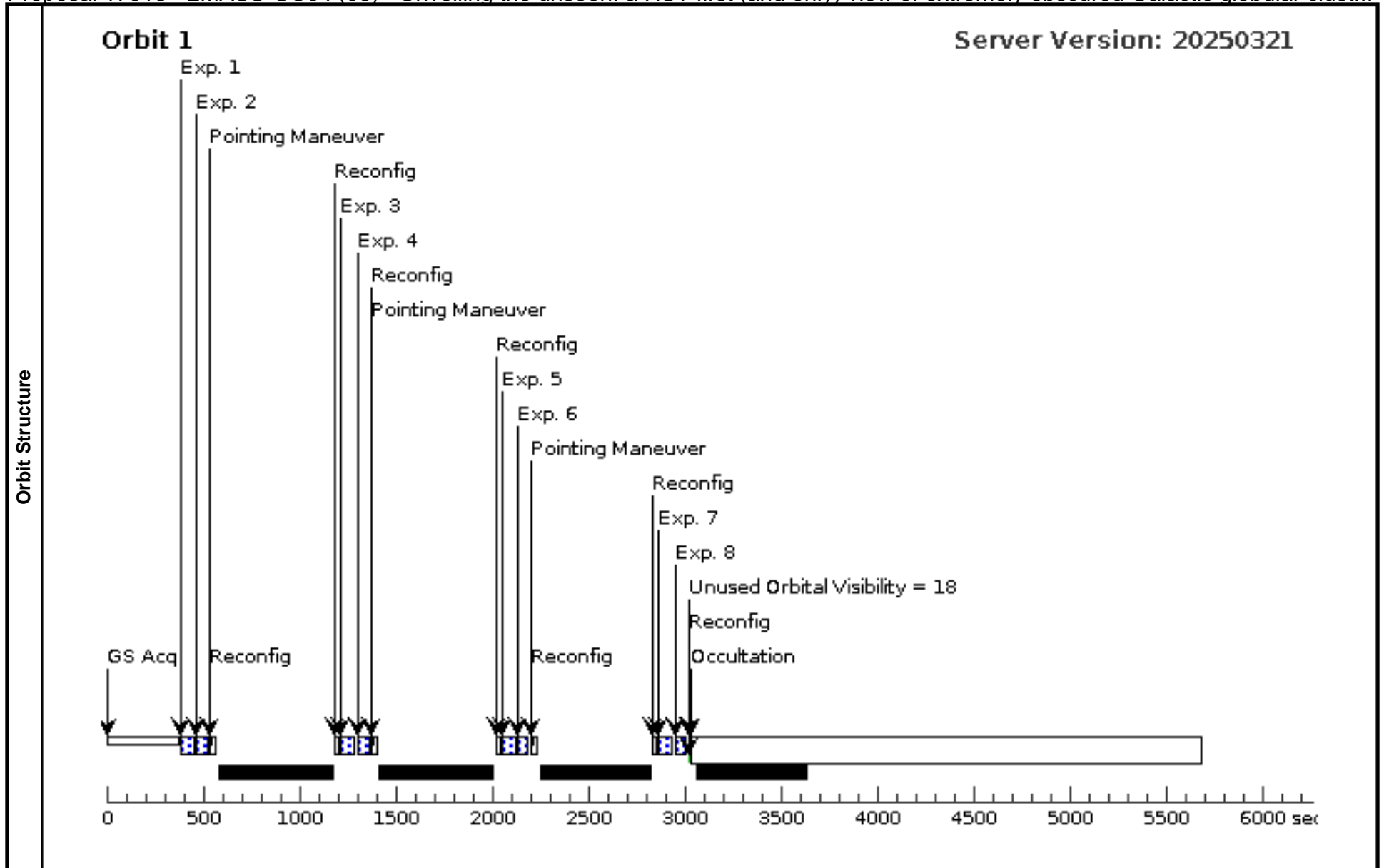
| Visit | Proposal 17918, RYU-059 (05), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
|-----------|---|-------|-------------|---|---|----------------------------------|-----------------------|--------|---|-------|
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | |
| | | (5) | RYU-059 | RA: 16 17 8.7300 (244.2863750d) Dec: -44 35 35.30 (-44.59314d) Equinox: J2000 | Proper Motion RA: 1.022 mas/yr Proper Motion Dec: 0.77 mas/yr Parallax: 0" Epoch of Position: 2000 | V=13 | Reference Frame: ICRS | | | |
| | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F110W | (5) RYU-059 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 2 | F160W | (5) RYU-059 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 3 | F110W | (5) RYU-059 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 4 | F160W | (5) RYU-059 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 5 | F110W | (5) RYU-059 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 2,2 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 6 | F160W | (5) RYU-059 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 2,2 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |
| | 7 | F110W | (5) RYU-059 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 3,3 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 8 | F160W | (5) RYU-059 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 3,3 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |



Proposal 17918 - 2MASS-GC04 (06) - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular clust...

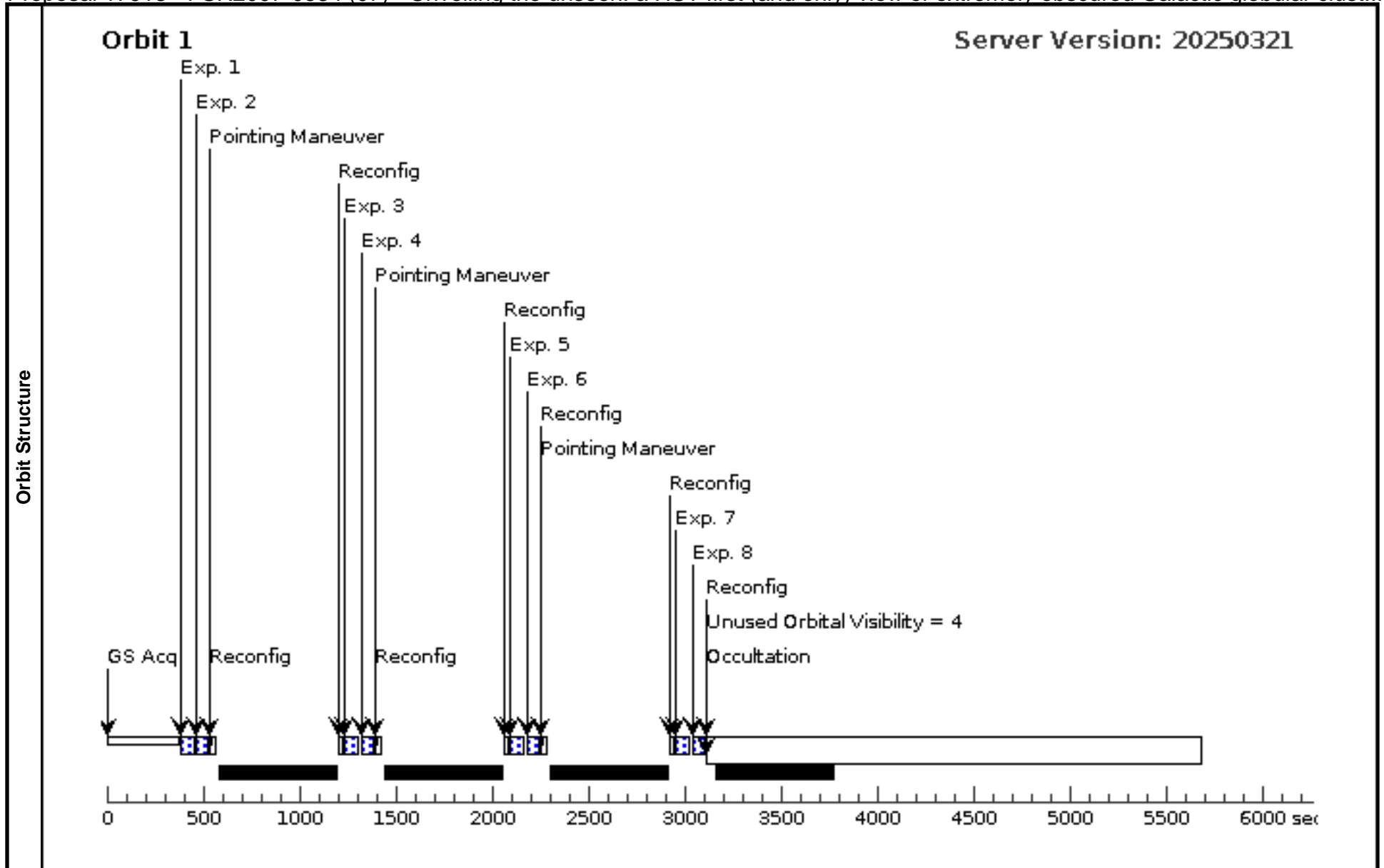
Fri May 16 20:00:26 GMT 2025

| Visit | Proposal 17918, 2MASS-GC04 (06), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
|---------------|---|-----------------|--|--|---------------|---------------------------------|---------------|--------|---------------------------------------|-------|
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (6) | NAME-2MASS-GC04 | RA: 17 35 44.8000 (263.9366667d) Dec: -36 21 42.00 (-36.36167d) Equinox: J2000 | Proper Motion RA: 0.97 mas/yr Proper Motion Dec: -3.569999898900278 mas/yr Epoch of Position: 2000 | V=(?) J=15 | Reference Frame: ICRS | | | | |
| | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F110W | (6) NAME-2MASS-GC04 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID ; NSAMP=14 | | | 41.052074 Secs (41.052 Secs) [==>] | [1] |
| | 2 | F160W | (6) NAME-2MASS-GC04 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; SAMP-SEQ=RAPID | | | 41.052074 Secs (41.052 Secs) [==>] | [1] |
| | 3 | F110W | (6) NAME-2MASS-GC04 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID ; NSAMP=14 | POS TARG 1,1 | | 41.052074 Secs (41.052 Secs) [==>] | [1] |
| | 4 | F160W | (6) NAME-2MASS-GC04 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; SAMP-SEQ=RAPID | POS TARG 1,1 | | 41.052074 Secs (41.052 Secs) [==>] | [1] |
| | 5 | F110W | (6) NAME-2MASS-GC04 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID ; NSAMP=14 | POS TARG 2,2 | | 41.052074 Secs (41.052 Secs) [==>] | [1] |
| | 6 | F160W | (6) NAME-2MASS-GC04 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=13; SAMP-SEQ=RAPID | POS TARG 2,2 | | 38.119783 Secs (38.12 Secs) [==>] | [1] |
| | 7 | F110W | (6) NAME-2MASS-GC04 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID ; NSAMP=14 | POS TARG 3,3 | | 41.052074 Secs (41.052 Secs) [==>] | [1] |
| | 8 | F160W | (6) NAME-2MASS-GC04 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=13; SAMP-SEQ=RAPID | POS TARG 3,3 | | 38.119783 Secs (38.12 Secs) [==>] | [1] |



Proposal 17918 - FSR2007-0584 (07) - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular clust...

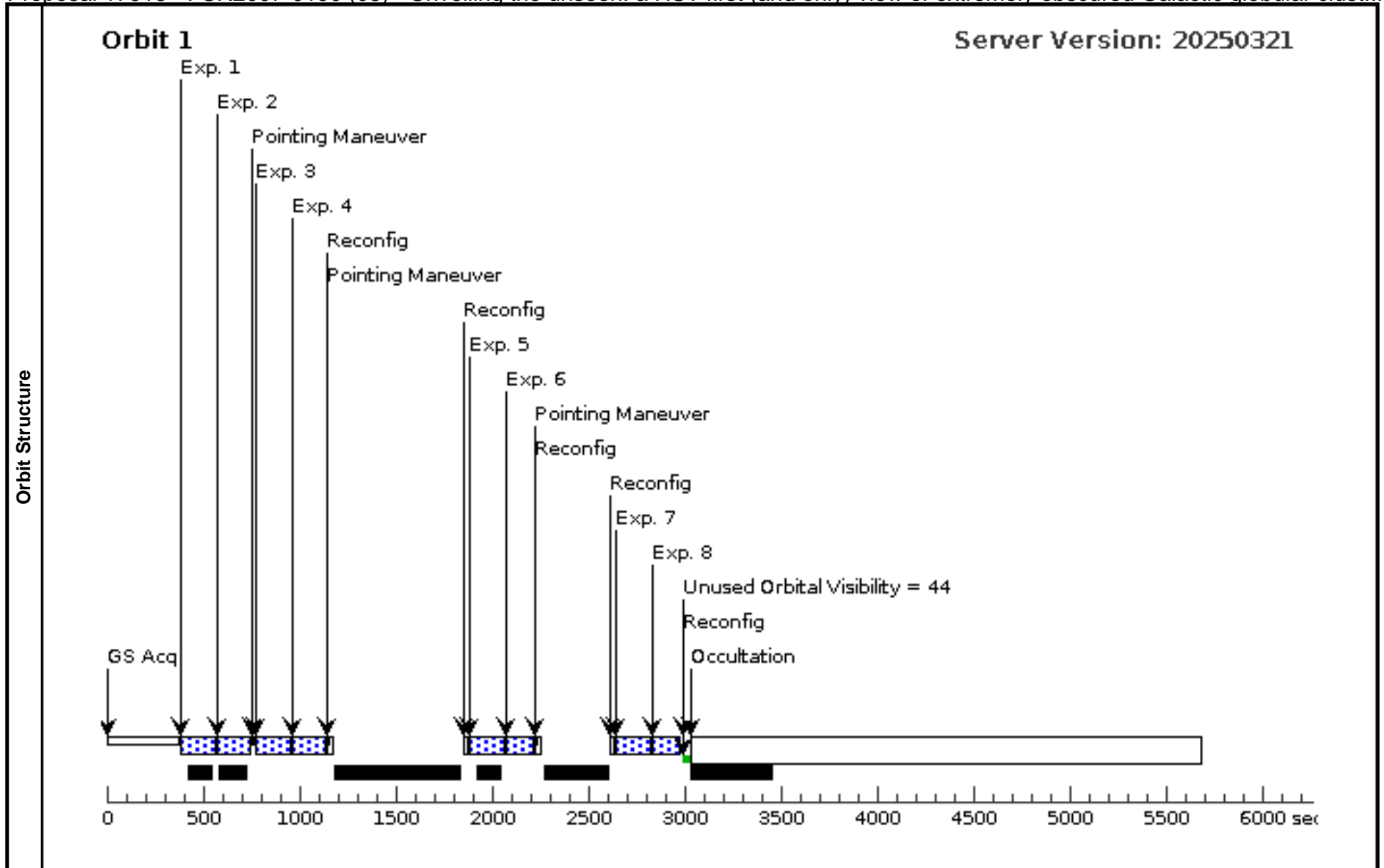
| Visit | | Proposal 17918, FSR2007-0584 (07), scheduling Fri May 16 20:00:26 GMT 2025 | | | | | | | | |
|--|-------|--|-----------------------------|--|--|----------------|-----------------------|------------------------------|---------------------------------|-------|
| | | Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | | (7) | FSR2007-0584 | RA: 02 27 15.0000 (36.8125000d) Dec: +61 37 28.00 (61.62444d) Equinox: J2000 | Proper Motion RA: 1.19 mas/yr Proper Motion Dec: 0.55 mas/yr Epoch of Position: 2000 | V=(?) J=16 | Reference Frame: ICRS | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i> Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER] | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F110W | (7) FSR2007-0584 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID | | | 43.984365 Secs (43.984 Secs) | |
| | | | | | | : | | | [==>] | [1] |
| | | | | | | NSAMP=15 | | | | |
| | 2 | F160W | (7) FSR2007-0584 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; | | | 41.052074 Secs (41.052 Secs) | |
| | | | | | | SAMP-SEQ=RAPID | | | [==>] | [1] |
| | | | | | | D | | | | |
| | 3 | F110W | (7) FSR2007-0584 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID | POS TARG 1,1 | | 43.984365 Secs (43.984 Secs) | |
| | | | | | | : | | | [==>] | [1] |
| | | | | | NSAMP=15 | | | | | |
| 4 | F160W | (7) FSR2007-0584 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; | | POS TARG 1,1 | 41.052074 Secs (41.052 Secs) | | |
| | | | | | SAMP-SEQ=RAPID | | | [==>] | [1] | |
| | | | | | D | | | | | |
| 5 | F110W | (7) FSR2007-0584 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID | POS TARG 2,2 | | 43.984365 Secs (43.984 Secs) | | |
| | | | | | : | | | [==>] | [1] | |
| | | | | | NSAMP=15 | | | | | |
| 6 | F160W | (7) FSR2007-0584 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; | | POS TARG 2,2 | 41.052074 Secs (41.052 Secs) | | |
| | | | | | SAMP-SEQ=RAPID | | | [==>] | [1] | |
| | | | | | D | | | | | |
| 7 | F110W | (7) FSR2007-0584 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=RAPID | POS TARG 3,3 | | 43.984365 Secs (43.984 Secs) | | |
| | | | | | : | | | [==>] | [1] | |
| | | | | | NSAMP=15 | | | | | |
| 8 | F160W | (7) FSR2007-0584 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=14; | | POS TARG 3,3 | 41.052074 Secs (41.052 Secs) | | |
| | | | | | SAMP-SEQ=RAPID | | | [==>] | [1] | |
| | | | | | D | | | | | |



Proposal 17918 - FSR2007-0190 (08) - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular clust...

Fri May 16 20:00:26 GMT 2025

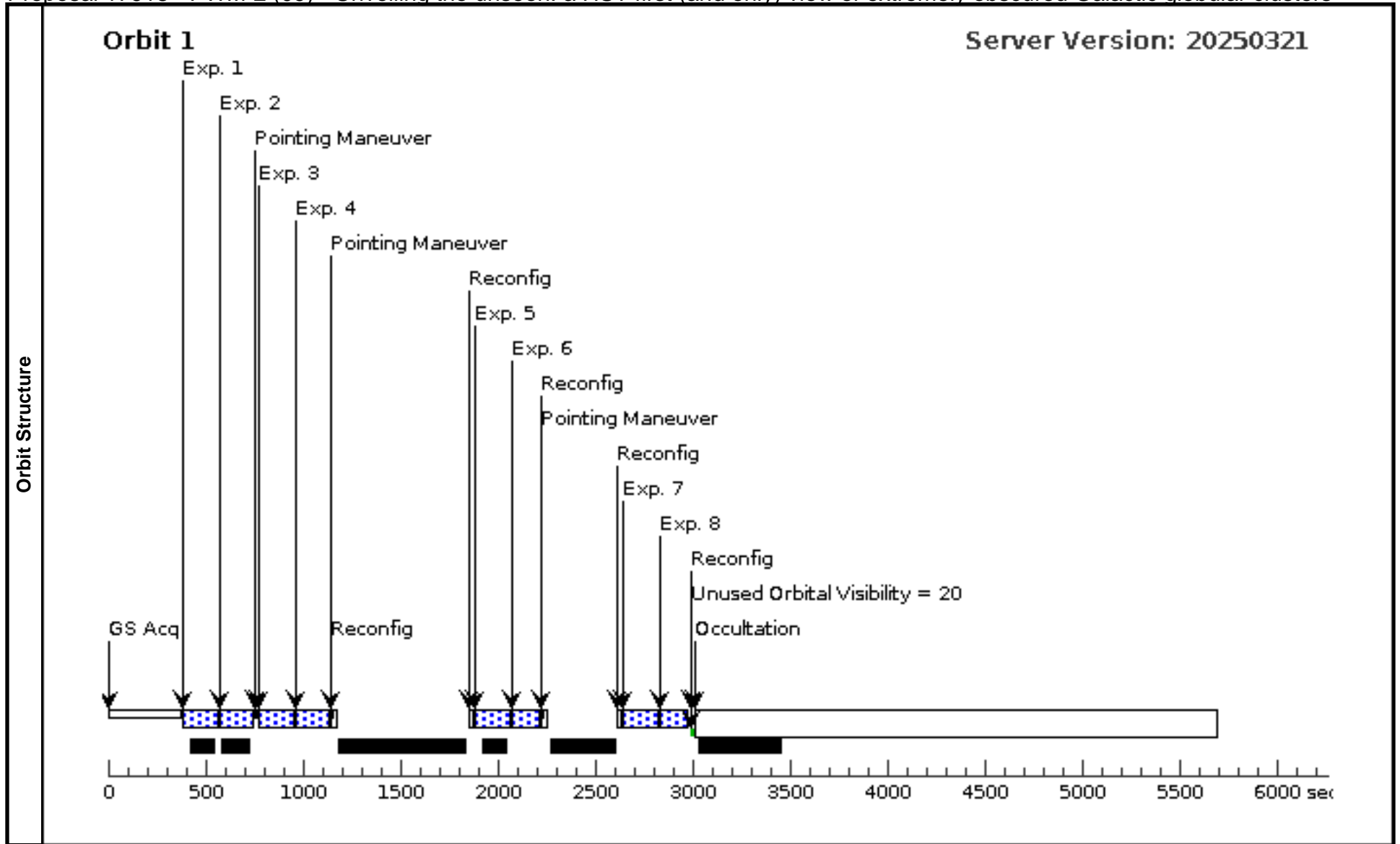
| Visit | Proposal 17918, FSR2007-0190 (08), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
|-----------|---|-------|------------------|--|---|----------------------------------|-----------------------|--------|---|-------|
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | |
| | | (8) | FSR2007-0190 | RA: 20 05 31.3000 (301.3804167d) Dec: +33 34 9.00 (33.56917d) Equinox: J2000 | Proper Motion RA: -3.62 mas/yr Proper Motion Dec: -2.239999980702123 mas/yr Epoch of Position: 2000 | V=(?) K=18 | Reference Frame: ICRS | | | |
| | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F110W | (8) FSR2007-0190 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 2 | F160W | (8) FSR2007-0190 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 3 | F110W | (8) FSR2007-0190 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 4 | F160W | (8) FSR2007-0190 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 5 | F110W | (8) FSR2007-0190 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 2,2 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 6 | F160W | (8) FSR2007-0190 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 2,2 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |
| | 7 | F110W | (8) FSR2007-0190 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 3,3 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 8 | F160W | (8) FSR2007-0190 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 3,3 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |



Proposal 17918 - PWM-2 (09) - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular clusters

Fri May 16 20:00:26 GMT 2025

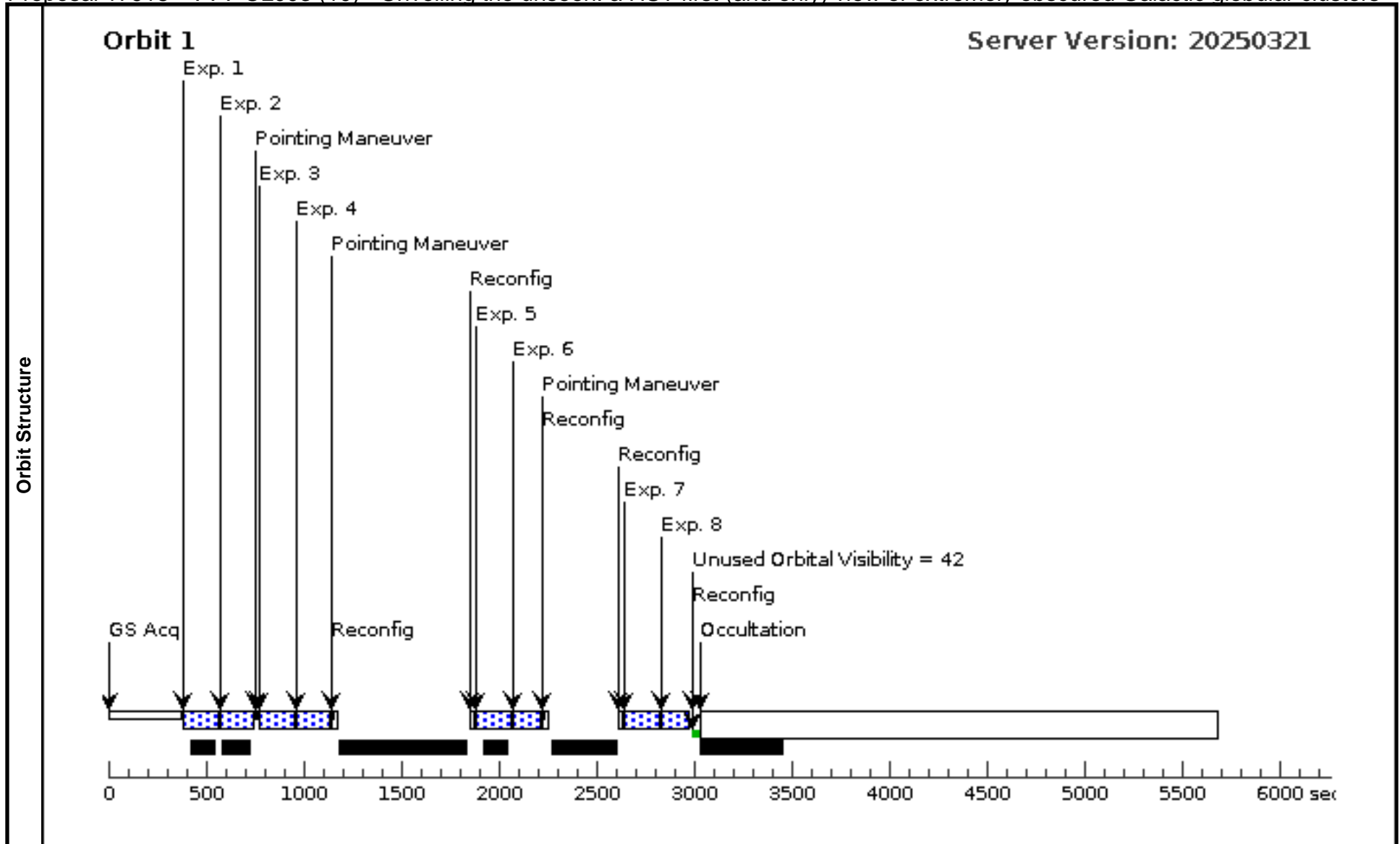
| Visit | Proposal 17918, PWM-2 (09), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
|---------------|--|------------|---|--|---------------|----------------------------------|---------------|--------|---|-------|
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| Fixed Targets | (9) | NAME-PWM-2 | RA: 17 58 39.0000 (269.6625000d) Dec: -05 04 18.00 (-5.07167d) Equinox: J2000 | Proper Motion RA: -2.784 mas/yr Proper Motion Dec: -4.1580000242902315 mas/yr Parallax: 9.4E-5" Epoch of Position: 2000 | V=23 | Reference Frame: ICRS | | | | |
| | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i> Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F110W | (9) NAME-PWM-2 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 2 | F160W | (9) NAME-PWM-2 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 3 | F110W | (9) NAME-PWM-2 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 4 | F160W | (9) NAME-PWM-2 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 5 | F110W | (9) NAME-PWM-2 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 2,2 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 6 | F160W | (9) NAME-PWM-2 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 2,2 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |
| | 7 | F110W | (9) NAME-PWM-2 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 3,3 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 8 | F160W | (9) NAME-PWM-2 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 3,3 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |



Proposal 17918 - VVV-CL003 (10) - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular clusters

Fri May 16 20:00:26 GMT 2025

| Visit | Proposal 17918, VVV-CL003 (10), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
|-----------|--|-----------|--|-----------------------------|--------------------------|----------------------------------|---------------|--------|---|-------|
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | |
| | (10) | VVV-CL003 | RA: 17 38 54.5600 (264.7273333d) Dec: -29 54 25.30 (-29.90703d) Equinox: J2000 | Epoch of Position: 2000 | V=(?) K=19 | Reference Frame: ICRS | | | | |
| | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F110W | (10) VVV-CL003 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 2 | F160W | (10) VVV-CL003 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 3 | F110W | (10) VVV-CL003 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 4 | F160W | (10) VVV-CL003 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 5 | F110W | (10) VVV-CL003 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 2,2 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 6 | F160W | (10) VVV-CL003 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 2,2 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |
| | 7 | F110W | (10) VVV-CL003 | WFC3/IR, MULTIACCUM, IR-FIX | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 3,3 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 8 | F160W | (10) VVV-CL003 | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 3,3 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |



Proposal 17918 - DSH-J1810.3-2320 (11) - Unveiling the unseen: a HST first (and only) view of extremely obscured Galactic globular ...

Fri May 16 20:00:26 GMT 2025

| Visit | Proposal 17918, DSH-J1810.3-2320 (11), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) | | | | | | | | | |
|-----------|--|------------------|--|---------------------------------|--------------------------|----------------------------------|---------------|--------|---|-------|
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | |
| | (11) | DSH-J1810.3-2320 | RA: 18 10 23.9000 (272.5995833d) Dec: -23 20 25.00 (-23.34028d) Equinox: J2000 | Epoch of Position: 2000 | V=22.5 | Reference Frame: ICRS | | | | |
| | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER] | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | F110W | (11) DSH-J1810.3-2320 | WFC3/IR, MULTIACCUM, IR-FIX 320 | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 2 | F160W | (11) DSH-J1810.3-2320 | WFC3/IR, MULTIACCUM, IR-FIX 320 | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 3 | F110W | (11) DSH-J1810.3-2320 | WFC3/IR, MULTIACCUM, IR-FIX 320 | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 4 | F160W | (11) DSH-J1810.3-2320 | WFC3/IR, MULTIACCUM, IR-FIX 320 | F160W | NSAMP=10; SAMP-SEQ=STEP2 5 | POS TARG 1,1 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 5 | F110W | (11) DSH-J1810.3-2320 | WFC3/IR, MULTIACCUM, IR-FIX 320 | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 2,2 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 6 | F160W | (11) DSH-J1810.3-2320 | WFC3/IR, MULTIACCUM, IR-FIX 320 | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 2,2 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |
| | 7 | F110W | (11) DSH-J1810.3-2320 | WFC3/IR, MULTIACCUM, IR-FIX 320 | F110W | SAMP-SEQ=STEP2 5; NSAMP=10 | POS TARG 3,3 | | 149.232286 Secs (149.232 Secs) [==>] | [1] |
| | 8 | F160W | (11) DSH-J1810.3-2320 | WFC3/IR, MULTIACCUM, IR-FIX 320 | F160W | NSAMP=9; SAMP-SEQ=STEP2 5 | POS TARG 3,3 | | 124.231771 Secs (124.232 Secs) [==>] | [1] |

