16748 - Proper motions of the star cluster system of the Large Magellanic Cloud

Cycle: 29, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>E-Mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Florian Niederhofer (PI) (ESA Member)</td>
<td>Leibniz-Institut fur Astrophysik Potsdam (AIP)</td>
<td><a href="mailto:fniederhofer@aip.de">fniederhofer@aip.de</a></td>
</tr>
<tr>
<td>Prof. Maria-Rosa Lucia Cioni (CoI) (ESA Member)</td>
<td>Leibniz-Institut fur Astrophysik Potsdam (AIP)</td>
<td><a href="mailto:mcioni@aip.de">mcioni@aip.de</a></td>
</tr>
<tr>
<td>Dr. Nikolay Kacharov (CoI) (ESA Member)</td>
<td>Leibniz-Institut fur Astrophysik Potsdam (AIP)</td>
<td><a href="mailto:kacharov@aip.de">kacharov@aip.de</a></td>
</tr>
<tr>
<td>Dr. Imants Platais (CoI)</td>
<td>The Johns Hopkins University</td>
<td><a href="mailto:imants@pha.jhu.edu">imants@pha.jhu.edu</a></td>
</tr>
<tr>
<td>Dr. Vera Kozhurina-Platais (CoI) (AdminUSPI) (Contact)</td>
<td>Space Telescope Science Institute</td>
<td><a href="mailto:verap@stsci.edu">verap@stsci.edu</a></td>
</tr>
<tr>
<td>Dr. Nate Bastian (CoI) (ESA Member)</td>
<td>Liverpool John Moores University</td>
<td><a href="mailto:nbastian78@gmail.com">nbastian78@gmail.com</a></td>
</tr>
<tr>
<td>Dr. Silvia Martocchia (CoI) (ESA Member)</td>
<td>Radboud Universiteit Nijmegen</td>
<td><a href="mailto:s.martocchia@astro.ru.nl">s.martocchia@astro.ru.nl</a></td>
</tr>
<tr>
<td>Dr. Davide Massari (CoI) (ESA Member)</td>
<td>INAF-Osservatorio di Astrofisica e Scienza dello Spazio</td>
<td><a href="mailto:davide.massari@inaf.it">davide.massari@inaf.it</a></td>
</tr>
<tr>
<td>Dr. Mattia Libralato (CoI)</td>
<td>Space Telescope Science Institute - ESA - JWST</td>
<td><a href="mailto:libra@stsci.edu">libra@stsci.edu</a></td>
</tr>
<tr>
<td>Dr. Andrea Bellini (CoI) (Contact)</td>
<td>Space Telescope Science Institute</td>
<td><a href="mailto:bellini@stsci.edu">bellini@stsci.edu</a></td>
</tr>
<tr>
<td>Dr. Sara Saracino (CoI) (ESA Member)</td>
<td>Liverpool John Moores University</td>
<td><a href="mailto:s.saracino@ljmu.ac.uk">s.saracino@ljmu.ac.uk</a></td>
</tr>
<tr>
<td>Dr. Ivan Cabrera-Ziri (CoI) (ESA Member)</td>
<td>Heidelberg University, Center for Astronomy</td>
<td><a href="mailto:ivandiver2@gmail.com">ivandiver2@gmail.com</a></td>
</tr>
</tbody>
</table>

VISITS

<table>
<thead>
<tr>
<th>Visit</th>
<th>Targets used in Visit</th>
<th>Configurations used in Visit</th>
<th>Orbits Used</th>
<th>Last Orbit Planner Run</th>
<th>OP Current with Visit?</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>(1) NGC-1898</td>
<td>WFC3/UVIS</td>
<td>1</td>
<td>04-Mar-2022 10:00:19.0</td>
<td>yes</td>
</tr>
<tr>
<td>02</td>
<td>(2) NAME-HODGE-11</td>
<td>WFC3/UVIS</td>
<td>1</td>
<td>04-Mar-2022 10:00:21.0</td>
<td>yes</td>
</tr>
<tr>
<td>03</td>
<td>(4) NGC-2005</td>
<td>WFC3/UVIS</td>
<td>1</td>
<td>04-Mar-2022 10:00:22.0</td>
<td>yes</td>
</tr>
</tbody>
</table>
ABSTRACT

A number of high-precision proper motion programs utilizing HST have already been used to study different aspects of the Magellanic Cloud system, thereby having a tremendous impact on our understanding of this pair of interacting galaxies and its relation to the Milky Way. It has been shown that both Clouds move much faster than previously assumed, suggesting they are most likely on a first passage around the Milky Way. Also, the internal rotation pattern of the Large Magellanic Cloud (LMC) in the plane of the sky has been revealed for the first time using data from HST. However, to date little is known about the dynamics of the star-cluster system within the LMC. To eliminate this lack of knowledge, we propose here for an
additional epoch of HST observations for a sample of 19 massive LMC star clusters that span a wide range of ages and galactocentric distances to get, for the first time, a precise measurement of the clusters' proper motions. This program aims to use star clusters as tracers to probe the gravitational potential of the LMC, to study the kinematic pattern of the LMC as traced by star clusters at various ages and also to place important constraints on the interaction history of the Magellanic Cloud system.

OBSERVING DESCRIPTION

This program aims to measure the proper motions of a sample of 19 massive star clusters within the Large Magellanic Cloud. We proposed one additional epoch of observation for each of the clusters. To reach our science goal, precise measurements of the stellar positions are crucial. We plan therefore with the following observational setup:

The clusters will be observed using the WFC3/UVIS instrument in the F814W filter which has the most accurate ePSF models. The observations are organized in one visit per cluster whereas one visit consists of a single orbit. For each cluster, we plan for 5 properly-dithered long exposures. To measure the positions of stars that are saturated in the long exposures we further require two short exposures (one at the beginning and one at the end of the orbit). We positioned the new observations such that the overlap with existing observations is maximized. Further, we request the new observations to be taken with orientations that are perpendicular to those of the existing, archival epochs. This requirement is crucial to mitigate the impact of uncorrected CTE. The requested range of orientations is specified in the Visit Orientation Requirement for all clusters/visits.
Proposal 16748 - NGC-1898 (01) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit
Proposal 16748, NGC-1898 (01), failed
Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: ORIENT 250D TO 260 D; ORIENT 70D TO 80 D

Fri Mar 04 15:00:40 GMT 2022

Diagnostics
(Exposure 2 (NGC-1898 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 3 (NGC-1898 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 4 (NGC-1898 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 5 (NGC-1898 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 6 (NGC-1898 (01))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Diagnostics

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

Fixed Targets
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=GLOBULAR CLUSTER

Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(1)</td>
<td>NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[===&gt;]</td>
<td>[1]</td>
</tr>
<tr>
<td>2</td>
<td>(1)</td>
<td>NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>447 Secs (447 Secs)</td>
<td>[===&gt;447 Secs]</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(1)</td>
<td>NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td></td>
<td>350 Secs (447 Secs)</td>
<td>[===&gt;447.0 Secs]</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(1)</td>
<td>NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[===&gt;446.0 Secs]</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(1)</td>
<td>NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5,5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[===&gt;446.0 Secs]</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(1)</td>
<td>NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[===&gt;446.0 Secs]</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(1)</td>
<td>NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[===&gt;]</td>
<td>[1]</td>
</tr>
</tbody>
</table>
Proposal 16748 - NGC-1898 (01) - Proper motions of the star cluster system of the Large Magellanic Cloud
### Visit

- **Proposal 16748, Hodge-11 (02), scheduling**
- **Diagnostic Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** ORIENT 55D TO 65 D; ORIENT 235D TO 245 D

### Diagnostics

(Exposure 2 (Hodge-11 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser.
(Exposure 3 (Hodge-11 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser.
(Exposure 4 (Hodge-11 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser.
(Exposure 5 (Hodge-11 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser.
(Exposure 6 (Hodge-11 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser.

### Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

*Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.*
*Category=STELLAR CLUSTER*
*Description=[GLOBULAR CLUSTER]*

### Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(2) NAME-HODGE-11</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td><img src="image" alt="1" /></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(2) NAME-HODGE-11</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td></td>
<td>517 Secs (447 Secs)</td>
<td><img src="image" alt="1" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(2) NAME-HODGE-11</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td></td>
<td>517 Secs (446 Secs)</td>
<td><img src="image" alt="1" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(2) NAME-HODGE-11</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5,5</td>
<td></td>
<td>516 Secs (446 Secs)</td>
<td><img src="image" alt="1" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(2) NAME-HODGE-11</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>516 Secs (446 Secs)</td>
<td><img src="image" alt="1" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(2) NAME-HODGE-11</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td><img src="image" alt="1" /></td>
<td></td>
</tr>
</tbody>
</table>
Proposal 16748 - NGC-2005 (03) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit
Proposal 16748, NGC-2005 (03), scheduling
Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: ORIENT 18D TO 28 D; ORIENT 198D TO 208 D

Fri Mar 04 15:00:40 GMT 2022

Diagnostics
(Exposure 2 (NGC-2005 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 3 (NGC-2005 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 4 (NGC-2005 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 5 (NGC-2005 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 6 (NGC-2005 (03))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Fixed Targets
# Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[GLOBULAR CLUSTER]

Exposures
1 (4) NGC-2005 WFC3/UVIS, ACCUM, UVIS-CENTER F814W FLASH=20 POS TARG -2.5,-2.5 40 Secs (40 Secs) [==&gt;40 Secs] [1]
2 (4) NGC-2005 WFC3/UVIS, ACCUM, UVIS-CENTER F814W POS TARG -2.5,-2.5 350 Secs (447 Secs) [==&gt;447.0 Secs] [1]
3 (4) NGC-2005 WFC3/UVIS, ACCUM, UVIS-CENTER F814W POS TARG -5,-5 350 Secs (447 Secs) [==&gt;447.0 Secs] [1]
4 (4) NGC-2005 WFC3/UVIS, ACCUM, UVIS-CENTER F814W POS TARG 0,0 350 Secs (446 Secs) [==&gt;446.0 Secs] [1]
5 (4) NGC-2005 WFC3/UVIS, ACCUM, UVIS-CENTER F814W POS TARG 5,5 350 Secs (446 Secs) [==&gt;446.0 Secs] [1]
6 (4) NGC-2005 WFC3/UVIS, ACCUM, UVIS-CENTER F814W POS TARG 2.5,2.5 350 Secs (446 Secs) [==&gt;446.0 Secs] [1]
7 (4) NGC-2005 WFC3/UVIS, ACCUM, UVIS-CENTER F814W FLASH=20 POS TARG 2.5,2.5 40 Secs (40 Secs) [==&gt;40 Secs] [1]
Proposal 16748 - NGC-2005 (03) - Proper motions of the star cluster system of the Large Magellanic Cloud
Proposal 16748, NGC-2210 (04), scheduling

Diagnosic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 355D TO 5 D; ORIENT 175D TO 185 D

---

### Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

**Comments:** This object was generated by the targetselector and retrieved from the SIMBAD database. 
**Category:** STELLAR CLUSTER  
**Description:** [GLOBULAR CLUSTER]

---

### Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(5) NGC-2210</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td>40 Secs (40 Secs)</td>
<td><img src="image1.png" alt="Image" /></td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(5) NGC-2210</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td>350 Secs (447 Secs)</td>
<td><img src="image2.png" alt="Image" /></td>
<td>[1]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(5) NGC-2210</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td>350 Secs (447 Secs)</td>
<td><img src="image3.png" alt="Image" /></td>
<td>[1]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(5) NGC-2210</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td>350 Secs (446 Secs)</td>
<td><img src="image4.png" alt="Image" /></td>
<td>[1]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(5) NGC-2210</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5,5</td>
<td>350 Secs (446 Secs)</td>
<td><img src="image5.png" alt="Image" /></td>
<td>[1]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(5) NGC-2210</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td>350 Secs (446 Secs)</td>
<td><img src="image6.png" alt="Image" /></td>
<td>[1]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(5) NGC-2210</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td>40 Secs (40 Secs)</td>
<td><img src="image7.png" alt="Image" /></td>
<td>[1]</td>
<td></td>
</tr>
</tbody>
</table>
Proposal 16748 - NGC-2210 (04) - Proper motions of the star cluster system of the Large Magellanic Cloud
Proposal 16748 - NGC-2257 (05) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit
Proposal 16748, NGC-2257 (05), failed
Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: ORIENT 74D TO 84 D; ORIENT 254D TO 264 D

Fri Mar 04 15:00:41 GMT 2022

Diagnostics
(Exposure 2 (NGC-2257 (05))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure.  See extended explanation in the diagnostic browser
(Exposure 3 (NGC-2257 (05))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure.  See extended explanation in the diagnostic browser
(Exposure 4 (NGC-2257 (05))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure.  See extended explanation in the diagnostic browser
(Exposure 5 (NGC-2257 (05))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure.  See extended explanation in the diagnostic browser
(Exposure 6 (NGC-2257 (05))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure.  See extended explanation in the diagnostic browser

Fixed Targets
<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]

Exposures
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(6) NGC-2257</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs  (35 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(6) NGC-2257</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td></td>
<td>350 Secs  (434 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(6) NGC-2257</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td></td>
<td></td>
<td>350 Secs  (434 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(6) NGC-2257</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td></td>
<td></td>
<td>350 Secs  (433 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(6) NGC-2257</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5.5</td>
<td></td>
<td></td>
<td>350 Secs  (433 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(6) NGC-2257</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td></td>
<td>350 Secs  (433 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(6) NGC-2257</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs  (35 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
</tbody>
</table>
Proposal 16748 - NGC-2257 (05) - Proper motions of the star cluster system of the Large Magellanic Cloud
Proposal 16748 - NGC-1841 (06) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit
- Proposal 16748, NGC-1841 (06), completed
- Diagnostic Status: Warning
- Scientific Instruments: WFC3/UVIS
- Special Requirements: ORIENT 45D TO 55 D; ORIENT 225D TO 235 D

Diagnostics
- (Exposure 2 (NGC-1841 (06))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (Exposure 3 (NGC-1841 (06))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (Exposure 4 (NGC-1841 (06))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (Exposure 5 (NGC-1841 (06))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (Exposure 6 (NGC-1841 (06))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[GLOBULAR CLUSTER]

Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(8)</td>
<td>NGC-1841</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(8)</td>
<td>NGC-1841</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td>350 Secs (456 Secs)</td>
<td>[1]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(8)</td>
<td>NGC-1841</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td>350 Secs (456 Secs)</td>
<td>[1]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(8)</td>
<td>NGC-1841</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td>350 Secs (456 Secs)</td>
<td>[1]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(8)</td>
<td>NGC-1841</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5,5</td>
<td>350 Secs (456 Secs)</td>
<td>[1]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(8)</td>
<td>NGC-1841</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td>350 Secs (456 Secs)</td>
<td>[1]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(8)</td>
<td>NGC-1841</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
</tbody>
</table>
**Proposal 16748, NGC-1850 (07), completed**

**Diagnostic Status:** Warning

**Scientific Instruments:** WFC3/UVIS

**Special Requirements:** ORIENT 100° TO 110°; ORIENT 280° TO 290°

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(9) NGC-1850</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td></td>
<td>[1]</td>
</tr>
<tr>
<td>2</td>
<td>(9) NGC-1850</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>350 Secs (447 Secs)</td>
<td></td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(9) NGC-1850</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td></td>
<td>350 Secs (447 Secs)</td>
<td></td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(9) NGC-1850</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td></td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(9) NGC-1850</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5,5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td></td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(9) NGC-1850</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td></td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(9) NGC-1850</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td></td>
<td>[1]</td>
</tr>
</tbody>
</table>

**Fixed Targets**

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Category=STELLAR CLUSTER

Description=[GLOBULAR CLUSTER]
Orbit Structure

Proposal 16748 - NGC-1850 (07) - Proper motions of the star cluster system of the Large Magellanic Cloud
Proposal 16748 - NGC-1856 (08) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit

<table>
<thead>
<tr>
<th>Visit</th>
<th>Proposal 16748, NGC-1856 (08), scheduling</th>
</tr>
</thead>
</table>

Diagnostic Status: Warning

<table>
<thead>
<tr>
<th>Scientific Instruments</th>
<th>WFC3/UVIS</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Special Requirements</th>
<th>ORIENT 240D TO 250 D; ORIENT 60D TO 70 D</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Exposures</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(10)</td>
<td>NGC-1856</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(10)</td>
<td>NGC-1856</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>350 Secs (447 Secs)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(10)</td>
<td>NGC-1856</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5.5,-5</td>
<td></td>
<td>350 Secs (447 Secs)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(10)</td>
<td>NGC-1856</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0.0</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(10)</td>
<td>NGC-1856</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5.5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(10)</td>
<td>NGC-1856</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(10)</td>
<td>NGC-1856</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fixed Targets</th>
</tr>
</thead>
</table>

<table>
<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-1856</td>
<td>RA: 05 09 30.2900 (77.3762083d) Dec: -69 07 45.08 (-69.12919d)</td>
<td>Epoch of Position: 2015.5</td>
<td>V=10.06</td>
<td>Reference Frame: SIMBAD</td>
</tr>
</tbody>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Category=STELLAR CLUSTER

Description=[GLOBULAR CLUSTER]
Proposal 16748 - NGC-1651 (09) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit: Proposal 16748, NGC-1651 (09), completed
Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: ORIENT 35D TO 45 D; ORIENT 215D TO 225 D

Diagnostics

(Exposure 2 (NGC-1651 (09))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 3 (NGC-1651 (09))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 4 (NGC-1651 (09))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 5 (NGC-1651 (09))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 6 (NGC-1651 (09))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[GLOBULAR CLUSTER]

Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(11)</td>
<td>NGC-1651</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>2</td>
<td>(11)</td>
<td>NGC-1651</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td>350 Secs (455 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(11)</td>
<td>NGC-1651</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(11)</td>
<td>NGC-1651</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(11)</td>
<td>NGC-1651</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5,5</td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(11)</td>
<td>NGC-1651</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(11)</td>
<td>NGC-1651</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
</tbody>
</table>
Proposal 16748 - NGC-1651 (09) - Proper motions of the star cluster system of the Large Magellanic Cloud
Proposal 16748 - NGC-1718 (10) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit

Proposal 16748, NGC-1718 (10), completed

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 80D TO 90 D; ORIENT 260D TO 270 D

Diagnostics

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Warning (Form)</th>
<th>Description</th>
<th>See extended explanation in the diagnostic browser</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure 2 (NGC-1718 (10))</td>
<td>FLASH level may be too low for this exposure or a short subexposure.</td>
<td>(Exposure 2 (NGC-1718 (10))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</td>
<td></td>
</tr>
<tr>
<td>Exposure 3 (NGC-1718 (10))</td>
<td>FLASH level may be too low for this exposure or a short subexposure.</td>
<td>(Exposure 3 (NGC-1718 (10))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</td>
<td></td>
</tr>
<tr>
<td>Exposure 4 (NGC-1718 (10))</td>
<td>FLASH level may be too low for this exposure or a short subexposure.</td>
<td>(Exposure 4 (NGC-1718 (10))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</td>
<td></td>
</tr>
<tr>
<td>Exposure 5 (NGC-1718 (10))</td>
<td>FLASH level may be too low for this exposure or a short subexposure.</td>
<td>(Exposure 5 (NGC-1718 (10))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</td>
<td></td>
</tr>
<tr>
<td>Exposure 6 (NGC-1718 (10))</td>
<td>FLASH level may be too low for this exposure or a short subexposure.</td>
<td>(Exposure 6 (NGC-1718 (10))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</td>
<td></td>
</tr>
</tbody>
</table>

Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[GLOBULAR CLUSTER]

Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(12)</td>
<td>NGC-1718</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>2</td>
<td>(12)</td>
<td>NGC-1718</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>350 Secs (447 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>3</td>
<td>(12)</td>
<td>NGC-1718</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG -5,-5</td>
<td></td>
<td>350 Secs (447 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>4</td>
<td>(12)</td>
<td>NGC-1718</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG 0,0</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>5</td>
<td>(12)</td>
<td>NGC-1718</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG 5,5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>6</td>
<td>(12)</td>
<td>NGC-1718</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>7</td>
<td>(12)</td>
<td>NGC-1718</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
</tbody>
</table>
Proposal 16748 - NGC-1718 (10) - Proper motions of the star cluster system of the Large Magellanic Cloud
Proposal 16748 - NGC-2173 (11) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit

Diagnostic Status: Warning

- Scientific Instruments: WFC3/UVIS
- Special Requirements: ORIENT 12D TO 22 D; ORIENT 192D TO 202 D

Diagnostics

- Exposure 2 (NGC-2173 (11)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- Exposure 3 (NGC-2173 (11)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- Exposure 4 (NGC-2173 (11)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- Exposure 5 (NGC-2173 (11)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- Exposure 6 (NGC-2173 (11)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[GLOBULAR CLUSTER]

Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(13)</td>
<td>NGC-2173</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>2</td>
<td>(13)</td>
<td>NGC-2173</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>350 Secs (455 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(13)</td>
<td>NGC-2173</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td></td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(13)</td>
<td>NGC-2173</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td></td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(13)</td>
<td>NGC-2173</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5,5</td>
<td></td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(13)</td>
<td>NGC-2173</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(13)</td>
<td>NGC-2173</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
</tbody>
</table>
### Visit

**Proposal 16748, NGC-2203 (12), scheduling**

**Diagnostic Status:** Warning

**Scientific Instruments:** WFC3/UVIS

**Special Requirements:** ORIENT 7D TO 17 D; ORIENT 187D TO 197 D

### Diagnostics

(Exposure 2 (NGC-2203 (12))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 3 (NGC-2203 (12))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 4 (NGC-2203 (12))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 5 (NGC-2203 (12))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 6 (NGC-2203 (12))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

### Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

**Comments:** This object was generated by the targetselector and retrieved from the SIMBAD database.

**Category:** STELLAR CLUSTER

**Description:** [GLOBULAR CLUSTER]

### Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(14)</td>
<td>NGC-2203</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>2</td>
<td>(14)</td>
<td>NGC-2203</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td></td>
<td>350 Secs (453 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>3</td>
<td>(14)</td>
<td>NGC-2203</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td></td>
<td></td>
<td>350 Secs (453 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>4</td>
<td>(14)</td>
<td>NGC-2203</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td></td>
<td></td>
<td>350 Secs (453 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>5</td>
<td>(14)</td>
<td>NGC-2203</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5.5</td>
<td></td>
<td></td>
<td>350 Secs (453 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>6</td>
<td>(14)</td>
<td>NGC-2203</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td></td>
<td>350 Secs (453 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>7</td>
<td>(14)</td>
<td>NGC-2203</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
</tbody>
</table>
Proposal 16748 - NGC-2209 (13) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit
Proposal 16748, NGC-2209 (13), scheduling
Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: ORIENT 25D TO 35 D; ORIENT 205D TO 215 D

Diagnostics
(Exposure 2 (NGC-2209 (13))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 3 (NGC-2209 (13))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 4 (NGC-2209 (13))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 5 (NGC-2209 (13))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 6 (NGC-2209 (13))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[GLOBULAR CLUSTER]

Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(15)</td>
<td>NGC-2209</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>2</td>
<td>(15)</td>
<td>NGC-2209</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>350 Secs (455 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(15)</td>
<td>NGC-2209</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td></td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(15)</td>
<td>NGC-2209</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td></td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(15)</td>
<td>NGC-2209</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5,5</td>
<td></td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(15)</td>
<td>NGC-2209</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(15)</td>
<td>NGC-2209</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
</tbody>
</table>
Orbit Structure

Proposal 16748 - NGC-2209 (13) - Proper motions of the star cluster system of the Large Magellanic Cloud
## Proposal 16748 - NGC-1831 (14) - Proper motions of the star cluster system of the Large Magellanic Cloud

### Visit
- **Proposal 16748, NGC-1831 (14), scheduling**
- **Diagnostic Status:** Warning
- **Scientific Instruments:** WFC3/UVIS
- **Special Requirements:** ORIENT 249D TO 259D; ORIENT 69D TO 79D

### Diagnostics
- (Exposure 2 (NGC-1831 (14))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (Exposure 3 (NGC-1831 (14))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (Exposure 4 (NGC-1831 (14))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (Exposure 5 (NGC-1831 (14))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- (Exposure 6 (NGC-1831 (14))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

### Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

**Comments:** This object was generated by the targetselector and retrieved from the SIMBAD database.
**Category:** STELLAR CLUSTER
**Description:** [GLOBULAR CLUSTER]

### Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(16) NGC-1831</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(16) NGC-1831</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>350 Secs (432 Secs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(16) NGC-1831</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td></td>
<td>350 Secs (432 Secs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(16) NGC-1831</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td></td>
<td>350 Secs (431 Secs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(16) NGC-1831</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5,5</td>
<td></td>
<td>350 Secs (431 Secs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(16) NGC-1831</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2,5,2,5</td>
<td></td>
<td>350 Secs (431 Secs)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(16) NGC-1831</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Proposal 16748 - NGC-1831 (14) - Proper motions of the star cluster system of the Large Magellanic Cloud
Proposal 16748 - NGC-1866 (15) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit
Proposal 16748, NGC-1866 (15), scheduling

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 81D TO 91 D; ORIENT 261D TO 271 D

Diagnostics

(Exposure 2 (NGC-1866 (15))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 3 (NGC-1866 (15))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 4 (NGC-1866 (15))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 5 (NGC-1866 (15))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

(Exposure 6 (NGC-1866 (15))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Fixed Targets

<table>
<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-1866</td>
<td>RA: 05 13 38.9200 (78.4121667d) Dec: -65 27 52.75 (-65.46465d) Epoch of Position: 2015.5</td>
<td>V=9.73</td>
<td>Reference Frame: SIMBAD</td>
<td></td>
</tr>
</tbody>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[GLOBULAR CLUSTER]

Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(17)</td>
<td>NGC-1866</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>2</td>
<td>(17)</td>
<td>NGC-1866</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>350 Secs (447 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(17)</td>
<td>NGC-1866</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td></td>
<td>350 Secs (447 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(17)</td>
<td>NGC-1866</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(17)</td>
<td>NGC-1866</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5,5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(17)</td>
<td>NGC-1866</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(17)</td>
<td>NGC-1866</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
</tbody>
</table>
Proposal 16748 - NGC-2213 (16) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit
Proposal 16748, NGC-2213 (16), scheduled
Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: ORIENT 50° TO 60°; ORIENT 239° TO 249°

Diagnostics
(Exposure 2 (NGC-2213 (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 3 (NGC-2213 (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 4 (NGC-2213 (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 5 (NGC-2213 (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 6 (NGC-2213 (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Fixed Targets
<table>
<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>(20)</td>
<td>NGC-2213</td>
<td>RA: 06 10 42.6242 (-92.6776008d)</td>
<td>Epoch of Position: 2015.5</td>
<td>V=12.38</td>
<td>Reference Frame: SIMBAD</td>
</tr>
</tbody>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[GLOBULAR CLUSTER]

Exposures
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(20)</td>
<td>NGC-2213</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>2</td>
<td>(20)</td>
<td>NGC-2213</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>350 Secs (455 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(20)</td>
<td>NGC-2213</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td></td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(20)</td>
<td>NGC-2213</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td></td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(20)</td>
<td>NGC-2213</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5,5</td>
<td></td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(20)</td>
<td>NGC-2213</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>350 Secs (454 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(20)</td>
<td>NGC-2213</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
</tr>
</tbody>
</table>
Proposal 16748 - NGC-1868 (17) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit
Proposal 16748, NGC-1868 (17), completed
Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: ORIENT 283D TO 293 D; ORIENT 103D TO 113 D

Fri Mar 04 15:00:41 GMT 2022

Diagnostics
(Exposure 2 (NGC-1868 (17))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 3 (NGC-1868 (17))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 4 (NGC-1868 (17))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 5 (NGC-1868 (17))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 6 (NGC-1868 (17))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[GLOBULAR CLUSTER]

Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(21)</td>
<td>NGC-1868</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (35 Secs)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(21)</td>
<td>NGC-1868</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>350 Secs (434 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>3</td>
<td>(21)</td>
<td>NGC-1868</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG -5,-5</td>
<td></td>
<td>350 Secs (434 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>4</td>
<td>(21)</td>
<td>NGC-1868</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG 0,0</td>
<td></td>
<td>350 Secs (433 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>5</td>
<td>(21)</td>
<td>NGC-1868</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG 5,5</td>
<td></td>
<td>350 Secs (433 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>6</td>
<td>(21)</td>
<td>NGC-1868</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>350 Secs (433 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>7</td>
<td>(21)</td>
<td>NGC-1868</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (35 Secs)</td>
<td>[1]</td>
</tr>
</tbody>
</table>

36
Proposal 16748 - NGC-1868 (17) - Proper motions of the star cluster system of the Large Magellanic Cloud
Proposal 16748 - NGC-2108 (18) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit
Proposal 16748, NGC-2108 (18), completed
Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: ORIENT 283D TO 293 D; ORIENT 103D TO 113 D

Diagnostics
(Exposure 2 (NGC-2108 (18))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 3 (NGC-2108 (18))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 4 (NGC-2108 (18))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 5 (NGC-2108 (18))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 6 (NGC-2108 (18))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Fixed Targets
# Target Coordinates Epoch of Position: 2015.5 Flaxes Miscellaneous
(24) NGC-2108 RA: 05 44 5.0847 (86.0211862d) Dec: -69 10 30.38 (-69.17511d) Equinox: J2000

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[GLOBULAR CLUSTER]
Reference Frame: SIMBAD

Exposures
1 (24) NGC-2108 WFC3/UVIS, ACCUM, UVIS-CENTER F814W FLASH=20 POS TARG -2.5,-2.5 40 Secs (40 Secs)
2 (24) NGC-2108 WFC3/UVIS, ACCUM, UVIS-CENTER F814W POS TARG -2.5,-2.5 350 Secs (447 Secs)
3 (24) NGC-2108 WFC3/UVIS, ACCUM, UVIS-CENTER F814W POS TARG -5.5 350 Secs (447 Secs)
4 (24) NGC-2108 WFC3/UVIS, ACCUM, UVIS-CENTER F814W POS TARG 0,0 350 Secs (446 Secs)
5 (24) NGC-2108 WFC3/UVIS, ACCUM, UVIS-CENTER F814W POS TARG 5,5 350 Secs (446 Secs)
6 (24) NGC-2108 WFC3/UVIS, ACCUM, UVIS-CENTER F814W POS TARG 2.5,2.5 350 Secs (446 Secs)
7 (24) NGC-2108 WFC3/UVIS, ACCUM, UVIS-CENTER F814W FLASH=20 POS TARG 2.5,2.5 40 Secs (40 Secs)
Proposal 16748 - NGC-2108 (18) - Proper motions of the star cluster system of the Large Magellanic Cloud
Proposal 16748 - NGC-1805 (19) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit
Proposal 16748, NGC-1805 (19), completed
Diagnostic Status: Warning
Scientific Instruments: WFC3/UVIS
Special Requirements: ORIENT 43D TO 53 D; ORIENT 223D TO 233 D

Diagnostics
(Exposure 2 (NGC-1805 (19))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 3 (NGC-1805 (19))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 4 (NGC-1805 (19))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 5 (NGC-1805 (19))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(Exposure 6 (NGC-1805 (19))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[GLOBULAR CLUSTER]

Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(25) NGC-1805</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[I]</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(25) NGC-1805</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>350 Secs (447 Secs)</td>
<td>[I]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(25) NGC-1805</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG -5,-5</td>
<td></td>
<td>350 Secs (447 Secs)</td>
<td>[I]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(25) NGC-1805</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 0,0</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[I]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(25) NGC-1805</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 5,5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[I]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(25) NGC-1805</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[I]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(25) NGC-1805</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[I]</td>
<td></td>
</tr>
</tbody>
</table>
Proposal 16748 - NGC-1805 (19) - Proper motions of the star cluster system of the Large Magellanic Cloud.
### Fixed Targets

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>(1) NGC-1898</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(1) NGC-1898</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(1) NGC-1898</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(1) NGC-1898</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(1) NGC-1898</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(1) NGC-1898</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]

### Exposures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(1) NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>(1) NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>447 Secs (447 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(1) NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG -5,-5</td>
<td></td>
<td>350 Secs (447 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(1) NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG 0,0</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(1) NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG 5,5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(1) NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td></td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>350 Secs (446 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(1) NGC-1898</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs (40 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
</tbody>
</table>
Proposal 16748 - Repeat of visit 01 (20) - Proper motions of the star cluster system of the Large Magellanic Cloud
Proposal 16748 - Repeat of visit 05 (21) - Proper motions of the star cluster system of the Large Magellanic Cloud

Visit
- Proposal 16748, Repeat of visit 05 (21)
- Diagnostic Status: Warning
- Scientific Instruments: WFC3/UVIS
- Special Requirements: ORIENT 74D TO 84 D; ORIENT 254D TO 264 D

Diagnostics
- Exposure 2 (Repeat of visit 05 (21)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- Exposure 3 (Repeat of visit 05 (21)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- Exposure 4 (Repeat of visit 05 (21)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- Exposure 5 (Repeat of visit 05 (21)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
- Exposure 6 (Repeat of visit 05 (21)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

Fixed Targets
<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STELLAR CLUSTER
Description=[GLOBULAR CLUSTER]

Exposures
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(6)</td>
<td>NGC-2257</td>
<td>WFC3/UVIS, ACCUM,</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>40 Secs  (35 Secs)</td>
<td>[1]</td>
</tr>
<tr>
<td>2</td>
<td>(6)</td>
<td>NGC-2257</td>
<td>WFC3/UVIS, ACCUM,</td>
<td>F814W</td>
<td>POS TARG -2.5,-2.5</td>
<td></td>
<td>350 Secs  (434 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>(6)</td>
<td>NGC-2257</td>
<td>WFC3/UVIS, ACCUM,</td>
<td>F814W</td>
<td>POS TARG -5.5</td>
<td></td>
<td>350 Secs  (434 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>(6)</td>
<td>NGC-2257</td>
<td>WFC3/UVIS, ACCUM,</td>
<td>F814W</td>
<td>POS TARG 0.0</td>
<td></td>
<td>350 Secs  (433 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>(6)</td>
<td>NGC-2257</td>
<td>WFC3/UVIS, ACCUM,</td>
<td>F814W</td>
<td>POS TARG 5.5</td>
<td></td>
<td>350 Secs  (433 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>(6)</td>
<td>NGC-2257</td>
<td>WFC3/UVIS, ACCUM,</td>
<td>F814W</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>350 Secs  (433 Secs)</td>
<td>[1]</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>(6)</td>
<td>NGC-2257</td>
<td>WFC3/UVIS, ACCUM,</td>
<td>F814W</td>
<td>FLASH=20</td>
<td>POS TARG 2.5,2.5</td>
<td></td>
<td>40 Secs  (35 Secs)</td>
<td>[1]</td>
</tr>
</tbody>
</table>
Proposal 16748 - Repeat of visit 05 (21) - Proper motions of the star cluster system of the Large Magellanic Cloud