16801 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)

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

**INVESTIGATORS**

<table>
<thead>
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<tbody>
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<td><a href="mailto:raja@ucolick.org">raja@ucolick.org</a></td>
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<td>Observatoire de Paris - Section de Meudon</td>
<td><a href="mailto:francois.hammer@obspm.fr">francois.hammer@obspm.fr</a></td>
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<td>Dr. Julia Christine Roman-Duval (Col)</td>
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<td>Dr. Jeremiah Murphy (Col)</td>
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ABSTRACT

We propose to create a legacy map of the southern half of M31 in the optical and near ultraviolet (NUV). The Panchromatic Hubble Andromeda Southern Treasury (PHAST) will add ~100 million stars to M31's stellar photometry archive and cover regions of M31 that are structurally unique and more sensitive to the merger history than the northern disk mapped in the Panchromatic Hubble Andromeda Treasury (PHAT). These newly mapped regions include the intersections with M32 and the giant southern stream, the split portion of the star forming ring, and the southern bar. By providing age, metallicity, stellar mass, and follow-up kinematics, the resolved stellar photometry of these regions will be used for detailed comparisons to simulations, including star formation history and population asymmetries as well as the orbits of M32 and the giant southern stream, allowing us to distinguish between competing merger scenarios. Thus, these measurements tightly constrain models of M31’s merger history and disk evolution. Furthermore, the legacy value for such observations is undeniable; M31 has been and will continue to be a centerpiece target for many NASA and ESA missions, as well as for ground-based time-domain observations that could find extremely valuable events that require HST resolution for identifying precursors. These current and future data sets cover the entire galaxy, and thus, our coverage will increase the value of all past and future M31 observations. PHAST will complete a lasting baseline data set for this high-demand target that no other current or planned facility will be able to produce.
This program is creating a mosaic of the southern half of M31 in both UVIS and ACS. As such, it was accepted for prime and parallel observations. The mosaic uses the smaller field of view (UVIS) as the tiling unit to optimize coverage. The strategy is to take parallel exposures in F336W and F814W, dither to cover the gaps in both cameras, take a second exposure in each of these bands. Then change to the F275W and F475W filters, take parallel exposures, dither back, and take the final exposures. This gets repeated for 195 pointings.
# Proposal 16801 - Visit 01 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)

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Proposal 16801 - Visit 02 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)

Visit
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/UVIS, ACS/WFC
Special Requirements: SCHED 100%; ORIENT 68D TO 68 D

Fixed Targets

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Exposures

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### Exposures

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**Proposal 16801 - Visit 03 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)**

**Visit Information:***
- **Proposal 16801, Visit 03, scheduling**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/UVIS, ACS/WFC
- **Special Requirements:** SCHED 100%; ORIENT 68D TO 68 D

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**Visit:***

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/UVIS, ACS/WFC

**Special Requirements:** SCHED 100%; ORIENT 68D TO 68 D
## Proposal 16801 - Visit 04 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)

**Visit**
- Proposal 16801, Visit 04, completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/UVIS, ACS/WFC
- Special Requirements: SCHED 100%; ORIENT 248D TO 248 D

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**Comments:**
- Category=GALAXY
- Description=[DISK, SPIRAL, SPIRAL ARM, STAR FORMING REGION]

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- Description=[DISK, SPIRAL, SPIRAL ARM, STAR FORMING REGION]

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# Proposal 16801 - Visit 16 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)

### Visit

**Proposal 16801, Visit 16**

- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/UVIS, ACS/WFC
- **Special Requirements:** SCHED 100%; ORIENT 248D TO 248 D
- **Comments:** HOPR copy of visit 04

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Proposal 16801 - Visit 05 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)

**Visit**
- **Proposal 16801, Visit 05, completed**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/UVIS, ACS/WFC
- **Special Requirements:** SCHED 100%; ORIENT 248D TO 248 D

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**Comments:**
- Category=GALAXY
- Description=[DISK, SPIRAL, SPIRAL ARM, STAR FORMING REGION]

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Proposal 16801 - Visit 06 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)

Visit 06, scheduling
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/UVIS, ACS/WFC
Special Requirements: SCHED 100%; ORIENT 68D TO 68 D

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Comments:
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**Proposal 16801 - Visit 07 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)**

Visit Information:
- **Proposal 16801, Visit 07, scheduling**
- **Diagnostic Status: No Diagnostics**
- **Scientific Instruments: WFC3/UVIS, ACS/WFC**
- **Special Requirements: SCHED 100%; ORIENT 68D TO 68 D**

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Orbit Structure

Orbit 1

Exp. 1
Overhead
Pointing Maneuver
Exp. 3
Exp. 5

Overhead
Pointing Maneuver
Exp. 7

Overhead
Unused Orbital Visibility = 0
Occultation

GS Acq

Exp. 2
Exp. 4
Exp. 6
Exp. 8

Server Version: 20220516
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#### Categories and Descriptions:
- Category=GALAXY
- Description=[DISK, SPIRAL, SPIRAL ARM, STAR FORMING REGION]

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### Proposal 16801 - Visit 09 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)

**Visit**
- **Visit Completed**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/UVIS, ACS/WFC
- **Special Requirements:** SCHED 100%; ORIENT 248D TO 248 D

**Fixed Targets**

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### Proposals

**Proposal 16801, Visit 10, completed**

**Diagnostic Status:** No Diagnostics

**Scientific Instruments:** WFC3/UVIS, ACS/WFC

**Special Requirements:** SCHED 100%; ORIENT 245D TO 248D

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**Fixed Targets**

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**Comments:**
- Category=GALAXY
- Description=[DISK, SPIRAL, SPIRAL ARM, STAR FORMING REGION]

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Proposal 16801 - Visit 11 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)

Visit 11, scheduling
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/UVIS, ACS/WFC
Special Requirements: SCHED 100%; ORIENT 68D TO 68 D

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### Proposal 16801 - Visit 12 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)

#### Visit
- **Proposal 16801, Visit 12, scheduling**
- **Diagnostic Status:** No Diagnostics
- **Scientific Instruments:** WFC3/UVIS, ACS/WFC
- **Special Requirements:** SCHED 100%; ORIENT 68D TO 68 D

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### Visit 13 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)

**Visit 16801, Visit 13, scheduling**  
**Diagnostic Status:** No Diagnostics  
**Scientific Instruments:** WFC3/UVIS, ACS/WFC  
**Special Requirements:** SCHED 100%; ORIENT 68D TO 68 D

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Dec: +40 28 58.07 (40.48280d)  
Equinox: J2000 | V=20+/-0.1 | Reference Frame: ICRS |
| Comments: | Category=GALAXY | Description=[DISK, SPIRAL, SPIRAL ARM, STAR FORMING REGION] |
| (28) | M31-B36-F11-WFC | RA: 00 40 5.5959 (10.0233162d)  
Dec: +40 29 55.50 (40.49875d)  
Equinox: J2000 | V=20+/-0.1 | Reference Frame: ICRS |
| Comments: | Category=GALAXY | Description=[DISK, SPIRAL, SPIRAL ARM, STAR FORMING REGION] |

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### Exposures

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<tbody>
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<td>1</td>
<td>M31-B36-F13-UVIS-F3</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F336W</td>
<td>CR-SPLIT=NO; FLASH=18.0</td>
<td>POS TARG 0.0; GS ACQ SCENARIO BASE1B3</td>
<td>Prime + Parallel Group 1-2 in Visit 13</td>
<td>178 Secs (178 Secs)</td>
<td>![1]</td>
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<tr>
<td>2</td>
<td>M31-B36-F11-WFC-F8</td>
<td>ACS/WFC, ACCUM, WFC</td>
<td>F814W</td>
<td>Prime + Parallel Group 1-2 in Visit 13</td>
<td>104 Secs (104 Secs)</td>
<td>![1]</td>
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<td>3</td>
<td>M31-B36-F13-UVIS-F3</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F336W</td>
<td>CR-SPLIT=NO; FLASH=14.0</td>
<td>POS TARG 2.1582,475</td>
<td>Prime + Parallel Group 3-4 in Visit 13</td>
<td>700 Secs (700 Secs)</td>
<td>![1]</td>
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<td>4</td>
<td>M31-B36-F11-WFC-F8</td>
<td>ACS/WFC, ACCUM, WFC</td>
<td>F814W</td>
<td>Prime + Parallel Group 3-4 in Visit 13</td>
<td>700 Secs (700 Secs)</td>
<td>![1]</td>
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<td>5</td>
<td>M31-B36-F13-UVIS-F2</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F275W</td>
<td>CR-SPLIT=NO; FLASH=19.0</td>
<td>POS TARG 2.1582,475</td>
<td>Prime + Parallel Group 5-6 in Visit 13</td>
<td>720 Secs (720 Secs)</td>
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<td>6</td>
<td>M31-B36-F11-WFC-F4</td>
<td>ACS/WFC, ACCUM, WFC</td>
<td>F475W</td>
<td>Prime + Parallel Group 5-6 in Visit 13</td>
<td>679 Secs (679 Secs)</td>
<td>![1]</td>
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<tr>
<td>7</td>
<td>M31-B36-F13-UVIS-F2</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F275W</td>
<td>CR-SPLIT=NO; FLASH=19.0</td>
<td>POS TARG 0.0</td>
<td>Prime + Parallel Group 7-8 in Visit 13</td>
<td>462 Secs (462 Secs)</td>
<td>![1]</td>
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<td>M31-B36-F11-WFC-F4</td>
<td>ACS/WFC, ACCUM, WFC</td>
<td>F475W</td>
<td>Prime + Parallel Group 7-8 in Visit 13</td>
<td>337 Secs (337 Secs)</td>
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Proposal 16801 - Visit 14 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)

Visit 14, completed
Diagnostic Status: No Diagnostics
Scientific Instruments: WFC3/UVIS, ACS/WFC
Special Requirements: SCHED 100%; ORIENT 248D TO 248 D

<table>
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<tr>
<th>Fixed Targets</th>
<th>Exposures</th>
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<tr>
<td>#</td>
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<td>M31-B36-F14-UVIS</td>
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<td>M31-B36-F12-WFC-F4-75W</td>
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<td>M31-B36-F12-WFC-F4-75W</td>
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</table>
Proposal 16801 - Visit 14 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)

Orbit Structure

Server Version: 20220516

Orbit 1

GS Acq

Exp. 2

Exp. 4

Exp. 6

Exp. 8

Overhead

Pointing Maneuver

Overhead

Pointing Maneuver

Overhead

Unused Orbital Visibility = 0

Occultation

Exp. 1

Exp. 3

Exp. 5

Exp. 7

0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sex
**Proposal 16801 - Visit 15 - The Panchromatic Hubble Andromeda Southern Treasury (PHAST)**

**Visit**
- Proposal 16801, Visit 15, completed
- Diagnostic Status: No Diagnostics
- Scientific Instruments: WFC3/UVIS, ACS/WFC
- Special Requirements: SCHED 100%; ORIENT 248D TO 248 D

### Fixed Targets
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<th>#</th>
<th>Name</th>
<th>Target Coordinates</th>
<th>Targ. Coord. Corrections</th>
<th>Fluxes</th>
<th>Miscellaneous</th>
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<td>(22)</td>
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<td>RA: 00 40 41.0291 (10.1709546d) Dec: +40 27 4.41 (40.45123d) Equinox: J2000</td>
<td>V=20 +/- 0.1</td>
<td>Reference Frame: ICRS</td>
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<td>(29)</td>
<td>M31-B36-F15-UVIS</td>
<td>RA: 00 39 53.8550 (9.9743958d) Dec: +40 30 52.32 (40.51453d) Equinox: J2000</td>
<td>V=20 +/- 0.1</td>
<td>Reference Frame: ICRS</td>
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**Exposures**

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<td>1</td>
<td>M31-B36-F15-UVIS-F3 36W</td>
<td>(29) M31-B36-F15-UVIS</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F336W</td>
<td>CR-SPLIT=NO; FLASH=18.0</td>
<td>POS TARG 0.0</td>
<td>Prime + Parallel Group 1-2 in Visit 15</td>
<td>178 Secs (178 Secs)</td>
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<td>2</td>
<td>M31-B36-F13-WFC-F8 14W-short</td>
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<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F336W</td>
<td>CR-SPLIT=NO; FLASH=14.0</td>
<td>POS TARG 2.1582, 0.475</td>
<td>Prime + Parallel Group 3-4 in Visit 15</td>
<td>700 Secs (700 Secs)</td>
<td>[I]</td>
</tr>
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<td>M31-B36-F15-UVIS-F3 36W</td>
<td>(29) M31-B36-F15-UVIS</td>
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<td>5</td>
<td>M31-B36-F15-UVIS-F2 75W</td>
<td>(29) M31-B36-F15-UVIS</td>
<td>WFC3/UVIS, ACCUM, UVIS-CENTER</td>
<td>F275W</td>
<td>CR-SPLIT=NO; FLASH=19.0</td>
<td>POS TARG 2.1582, 0.475</td>
<td>Prime + Parallel Group 5-6 in Visit 15</td>
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<td>M31-B36-F13-WFC-F4 75W</td>
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<td>CR-SPLIT=NO; FLASH=19.0</td>
<td>POS TARG 0.0</td>
<td>Prime + Parallel Group 7-8 in Visit 15</td>
<td>462 Secs (462 Secs)</td>
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<td>M31-B36-F13-WFC-F4 75W</td>
<td>(22) M31-B36-F13-WFC</td>
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