



17402 - The 25,000-Lightcurve HST-Kepler Treasury Survey

Cycle: 31, Proposal Category: GO

(Treasury)

(Availability Mode: SUPPORTED)

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> |
|---|--|
| Dr. Luigi R. Bedin (PI) (ESA Member) (Contact) | INAF - Osservatorio Astronomico di Padova |
| Dr. Thomas Barclay (CoI) | NASA Goddard Space Flight Center |
| Prof. Daniel Apai (CoI) | University of Arizona |
| Prof. Adam J. Burgasser (CoI) (AdminUSPI) | University of California - San Diego |
| Dr. Domenico Nardiello (CoI) (ESA Member) | Universita degli Studi di Padova |
| Dr. Mattia Libralato (CoI) (ESA Member) | INAF - Istituto di Astrofisica Spaziale e Fisica |
| Dr. Gijs D. Mulders (CoI) | Universidad Adolfo Ibanez |

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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 12 | (1) NGC-6791 | ACS/WFC WFC3/UVIS | 1 | 12-Aug-2024 11:00:19.0 | yes |
| 13 | (1) NGC-6791 | ACS/WFC WFC3/UVIS | 1 | 12-Aug-2024 11:00:20.0 | yes |
| 14 | (1) NGC-6791 | ACS/WFC WFC3/UVIS | 1 | 12-Aug-2024 11:00:21.0 | yes |
| 15 | (1) NGC-6791 | ACS/WFC WFC3/UVIS | 1 | 12-Aug-2024 11:00:22.0 | yes |

| <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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 16 | (2) NGC-6819 | ACS/WFC WFC3/UVIS | 1 | 12-Aug-2024 11:00:23.0 | yes |
| 17 | (2) NGC-6819 | ACS/WFC WFC3/UVIS | 1 | 12-Aug-2024 11:00:24.0 | yes |
| 18 | (2) NGC-6819 | ACS/WFC WFC3/UVIS | 1 | 12-Aug-2024 11:00:25.0 | yes |
| 19 | (2) NGC-6819 | ACS/WFC WFC3/UVIS | 1 | 12-Aug-2024 11:00:26.0 | yes |

8 Total Orbits Used

ABSTRACT

In the Kepler database lies an important and yet unexplored opportunity. The two "super-apertures" centered on the star clusters: NGC 6791 and NGC 6819 - each containing several thousands stars - have been monitored almost continuously for over 4 yrs. If their stellar populations could be disentangled, then these Kepler datasets would be of groundbreaking importance to assess planet occurrence rates in two uniquely large groups of homogeneous and coeval stars.

We propose to obtain high-resolution HST images within these two super-aperture fields and use a well tested method (already proved successful) to combine Kepler lightcurves with HST source information. The unmatched HST image quality will provide a homogeneous, complete, and color-complete input list which will enable extracting Kepler light curves of all the objects. Furthermore, HST allows us to obtain proper motions linked to the Gaia system and membership for all these stars.

The combined data will provide about 25,000 lightcurves - increasing the total Kepler sample by 15%! Based on the latest planet occurrence rates we expect to find over 70 transiting planets -- ~40 in the solar-metallicity NGC 6819, and about 30-50 in the super-solar metallicity NGC 6791.

Our program will greatly enhance the Kepler mission's yield, boost the number of known transiting planets, and will allow a direct test of the planet occurrence rate-metallicity relationship in uniquely homogeneous and well-characterized samples. The proposed data will also enable many other investigations, enhancing the legacy and the scientific impact of both the HST and the Kepler missions, and target selections for future JWST and ARIEL follow-ups.

OBSERVING DESCRIPTION

This is second epoch of a multi-epoch astrometry and photometric proposal.

The targets are two open clusters,
and on each a mosaic of 2x2 ACSWFC fields will be collected.

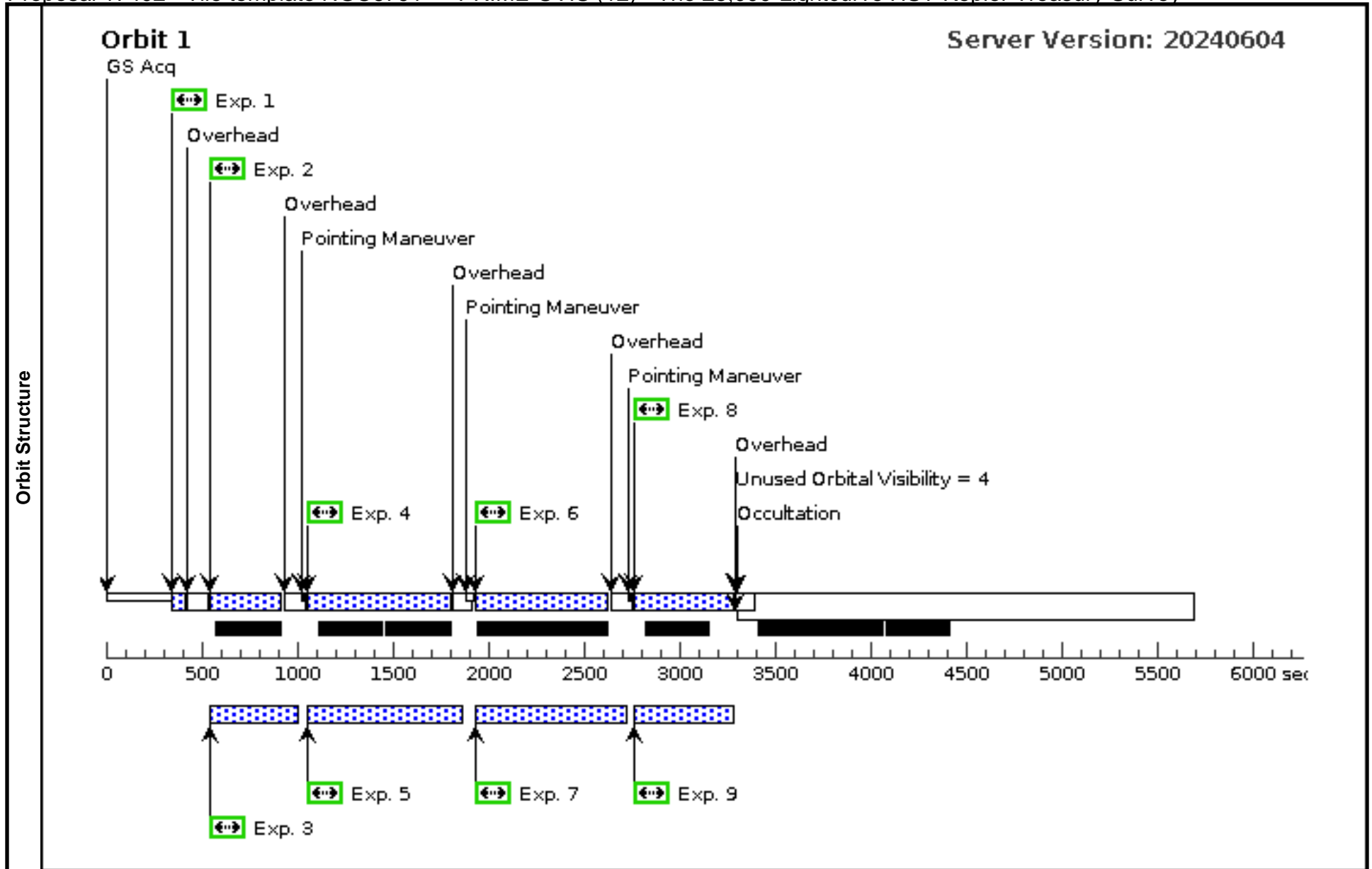
As we will cover as much as possible of the FoV with both ACS/WFC and WFC3/UVIS
it does not matter which is the primary of the two.
Somehow, letting WFC3 as primary, allowed us to put more suitable images for our purposes.

In the case of NGC 6819, we try to overlap as much as possible archival images from GO-11688 and GO-12669 as this will maximize proper motions useful for field-cluster separation.

Proposal 17402 - Tile template NGC6791 --- PRIME-UVIS (12) - The 25,000-Lightcurve HST-Kepler Treasury Survey

Mon Aug 12 15:00:27 GMT 2024

| Visit | Proposal 17402, Tile template NGC6791 --- PRIME-UVIS (12), pi | | | | | | | | | |
|---|---|--------------|---|--|---------------|--------------|--|---|---------------------------------|-------|
| | Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 70%: BETWEEN 01-FEB-2025:00:00:00 AND 14-APR-2025:00:00:00: VISIBILITY INTERVAL 3300 S | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | | Fluxes | Miscellaneous | | | |
| | (1) | NGC-6791 | RA: 19 20 53.0000 (290.2208333d) Dec: +37 46 42.00 (37.77833d) Equinox: J2000 | Proper Motion RA: -3.5510042891324055E-5 sec of time/yr Proper Motion Dec: -0.002269000015076017 arcsec/yr Epoch of Position: 2015.5 | | V=9.5 | Reference Frame: SIMBAD | | | |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STELLAR CLUSTER Description=[OPEN CLUSTER] Extended=YES | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | (1) NGC-6791 | (1) NGC-6791 | WFC3/UVIS, ACCUM, UVIS-CENTER | F350LP | FLASH=14 | POS TARG -95.554 87747622576,-101.3 79823084808 | | 40 Secs (40 Secs) [==>] | [1] |
| | 2 | (1) NGC-6791 | (1) NGC-6791 | WFC3/UVIS, ACCUM, UVIS-CENTER | F606W | FLASH=9 | POS TARG -95.554 87747622576,-101.3 79823084808 | Prime + Parallel Group 2-3 in Tile template NGC6791 --- PRIME-UVIS (12) | 348 Secs (348 Secs) [==>] | [1] |
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| | 4 | (1) NGC-6791 | (1) NGC-6791 | WFC3/UVIS, ACCUM, UVIS-CENTER | F814W | | POS TARG -91.554 87747622576,-97.37 9823084808 | Prime + Parallel Group 4-5 in Tile template NGC6791 --- PRIME-UVIS (12) | 729 Secs (729 Secs) [==>] | [1] |
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| | 8 | (1) NGC-6791 | (1) NGC-6791 | WFC3/UVIS, ACCUM, UVIS-CENTER | F606W | | POS TARG -41.554 877476225755,-47.3 79823084807995 | Prime + Parallel Group 8-9 in Tile template NGC6791 --- PRIME-UVIS (12) | 496 Secs (496 Secs) [==>] | [1] |
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Proposal 17402 - Tile template NGC6791 --- PRIME-UVIS (13) - The 25,000-Lightcurve HST-Kepler Treasury Survey

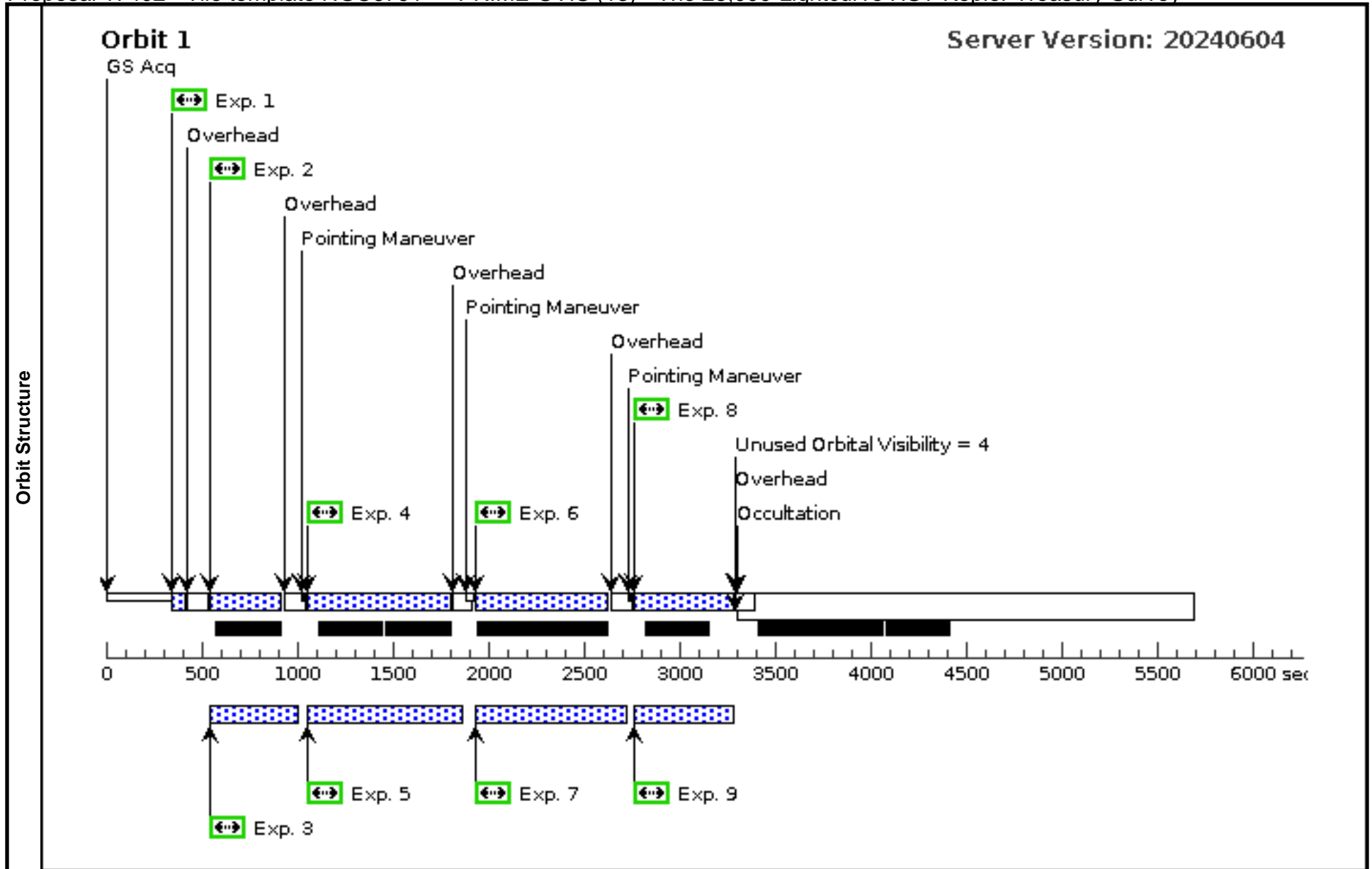
Mon Aug 12 15:00:27 GMT 2024

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| Visit | Proposal 17402, Tile template NGC6791 --- PRIME-UVIS (13), pi Diagnostic Status: Informational Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 70%; SAME ORIENT AS 12; AFTER 12; VISIBILITY INTERVAL 3300 S |
|--------------|---|

| | |
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| Diagnostics | (Tile template NGC6791 --- PRIME-UVIS (13)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. |
|--------------------|---|

| Fixed Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NGC-6791</td> <td>RA: 19 20 53.0000 (290.2208333d) Dec: +37 46 42.00 (37.77833d) Equinox: J2000</td> <td>Proper Motion RA: -3.5510042891324055E-5 sec of time/yr Proper Motion Dec: -0.002269000015076017 arcsec/yr Epoch of Position: 2015.5</td> <td>V=9.5</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STELLAR CLUSTER Description=[OPEN CLUSTER] Extended=YES</p> | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (1) | NGC-6791 | RA: 19 20 53.0000 (290.2208333d) Dec: +37 46 42.00 (37.77833d) Equinox: J2000 | Proper Motion RA: -3.5510042891324055E-5 sec of time/yr Proper Motion Dec: -0.002269000015076017 arcsec/yr Epoch of Position: 2015.5 | V=9.5 | Reference Frame: SIMBAD |
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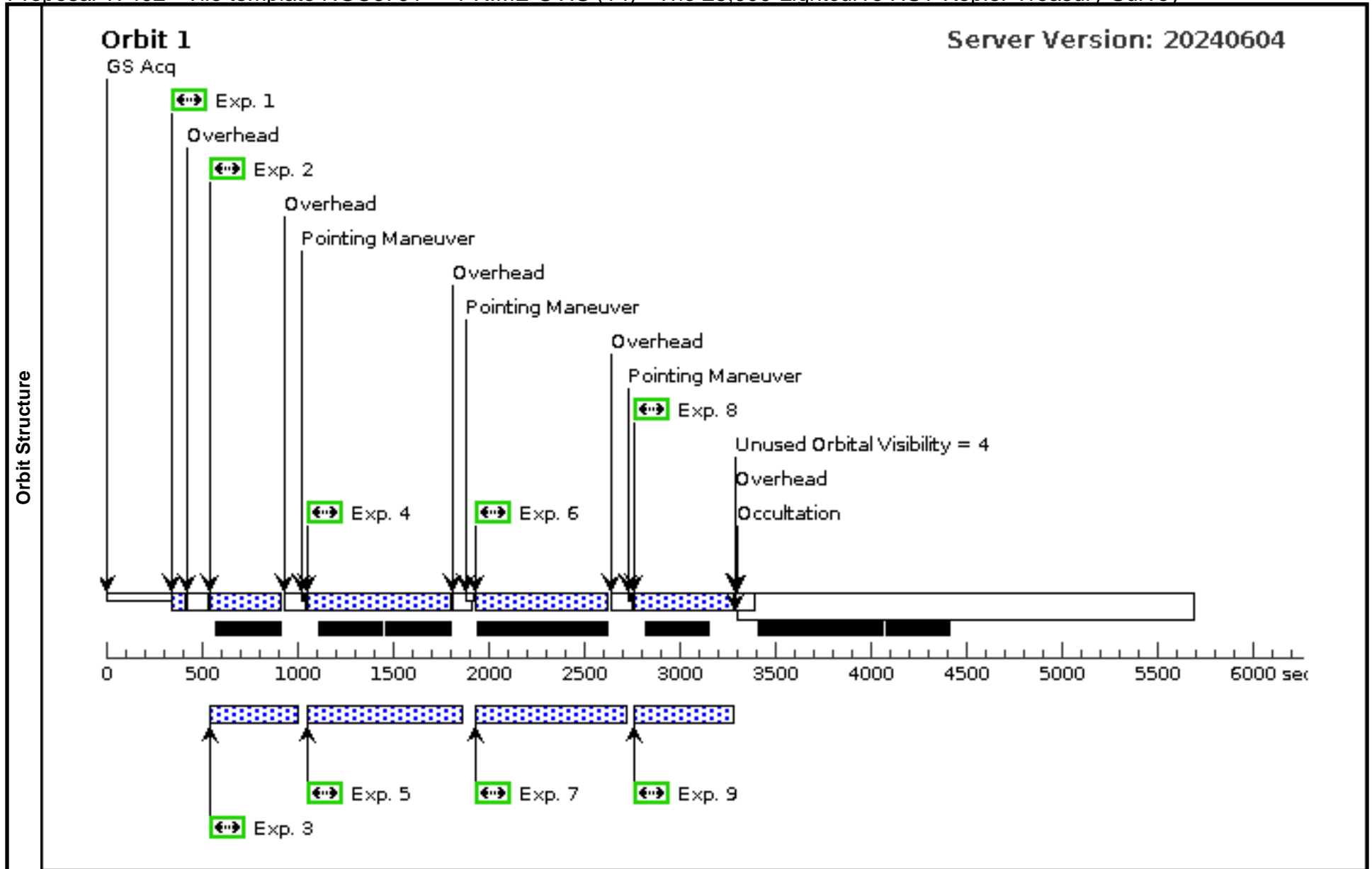
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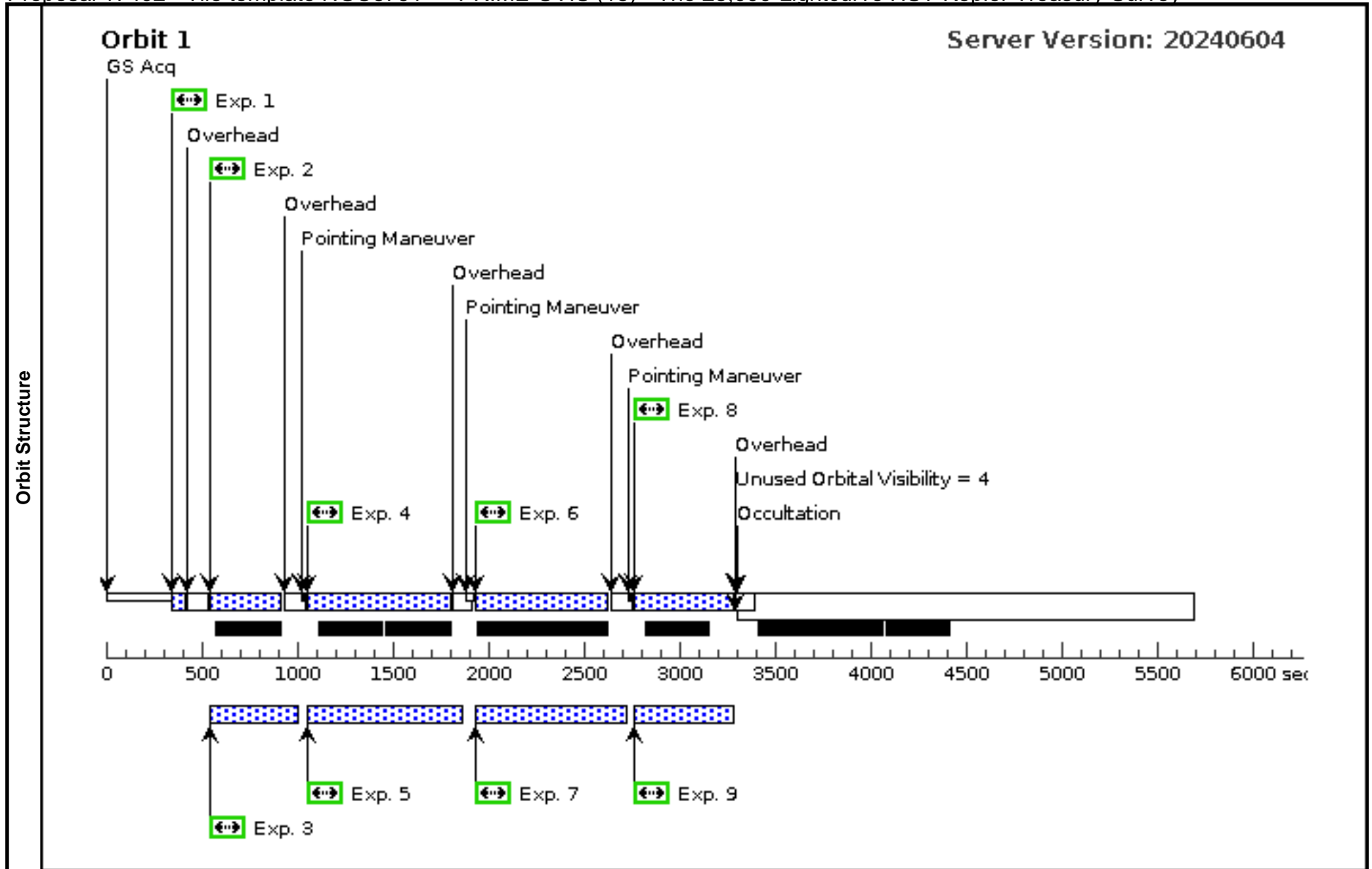
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Proposal 17402 - Tile template NGC6791 --- PRIME-UVIS (15) - The 25,000-Lightcurve HST-Kepler Treasury Survey

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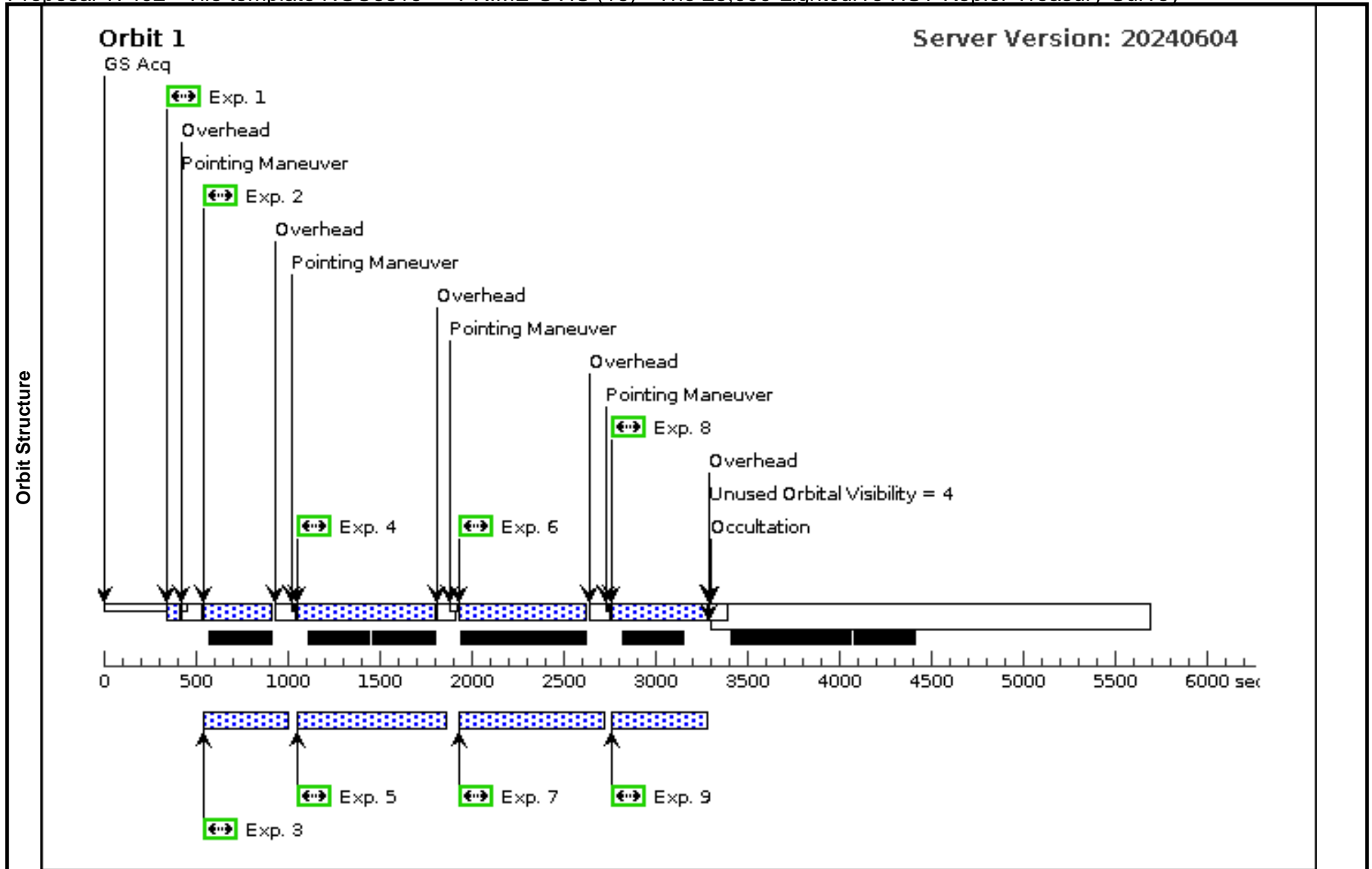
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| Visit | Proposal 17402, Tile template NGC6791 --- PRIME-UVIS (15), pi Diagnostic Status: Informational Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 70%; SAME ORIENT AS 12; AFTER 12; VISIBILITY INTERVAL 3300 S | | | | | | | | | |
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Proposal 17402 - Tile template NGC6819 --- PRIME-UVIS (16) - The 25,000-Lightcurve HST-Kepler Treasury Survey

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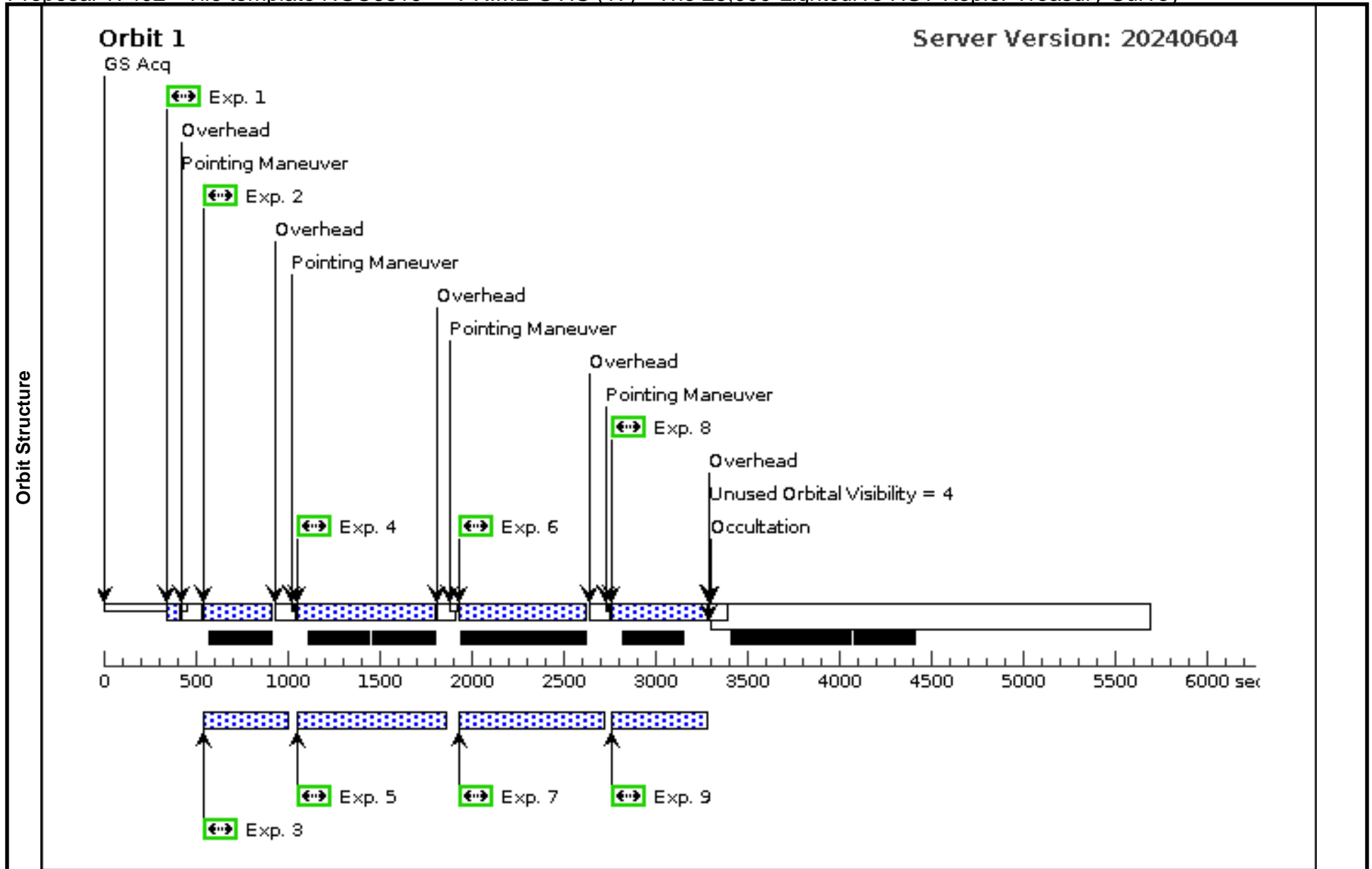
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|---|---|--------------|---|---|---------------|-------------------------|---|---|---------------------------------|-------|
| | Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 70%: BETWEEN 01-FEB-2025:00:00:00 AND 14-APR-2025:00:00:00: VISIBILITY INTERVAL 3300 S | | | | | | | | | |
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| | (2) | NGC-6819 | RA: 19 41 18.1000 (295.3254167d) Dec: +40 11 12.00 (40.18667d) Equinox: J2000 | Proper Motion RA: -2.544806826743376E-4 sec of time/yr Proper Motion Dec: -0.0038560000120924087 arcsec/yr Epoch of Position: 2015.5 | V=7.3 | Reference Frame: SIMBAD | | | | |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STELLAR CLUSTER Description=[OPEN CLUSTER] Extended=YES | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F350LP | FLASH=14 | POS TARG -73.554 87747622576,-79.37 9823084808 | | 40 Secs (40 Secs) [==>] | [1] |
| | 2 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F606W | FLASH=9 | POS TARG -95.554 87747622576,-101.3 79823084808 | Prime + Parallel Group 2-3 in Tile template NGC6819 --- PRIME-UVIS (16) | 348 Secs (348 Secs) [==>] | [1] |
| | 3 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F606W | | | Prime + Parallel Group 2-3 in Tile template NGC6819 --- PRIME-UVIS (16) | 258 Secs (258 Secs) [==>] | [1] |
| | 4 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F814W | | POS TARG -91.554 87747622576,-97.37 9823084808 | Prime + Parallel Group 4-5 in Tile template NGC6819 --- PRIME-UVIS (16) | 729 Secs (729 Secs) [==>] | [1] |
| | 5 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F814W | | | Prime + Parallel Group 4-5 in Tile template NGC6819 --- PRIME-UVIS (16) | 635 Secs (635 Secs) [==>] | [1] |
| | 6 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F814W | FLASH=8 | POS TARG -45.554 877476225755,-51.3 79823084807995 | Prime + Parallel Group 6-7 in Tile template NGC6819 --- PRIME-UVIS (16) | 697 Secs (697 Secs) [==>] | [1] |
| | 7 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F814W | | | Prime + Parallel Group 6-7 in Tile template NGC6819 --- PRIME-UVIS (16) | 666 Secs (666 Secs) [==>] | [1] |
| | 8 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F606W | | POS TARG -41.554 877476225755,-47.3 79823084807995 | Prime + Parallel Group 8-9 in Tile template NGC6819 --- PRIME-UVIS (16) | 496 Secs (496 Secs) [==>] | [1] |
| 9 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F606W | | | Prime + Parallel Group 8-9 in Tile template NGC6819 --- PRIME-UVIS (16) | 338 Secs (338 Secs) [==>] | [1] | |



Proposal 17402 - Tile template NGC6819 --- PRIME-UVIS (17) - The 25,000-Lightcurve HST-Kepler Treasury Survey

Mon Aug 12 15:00:27 GMT 2024

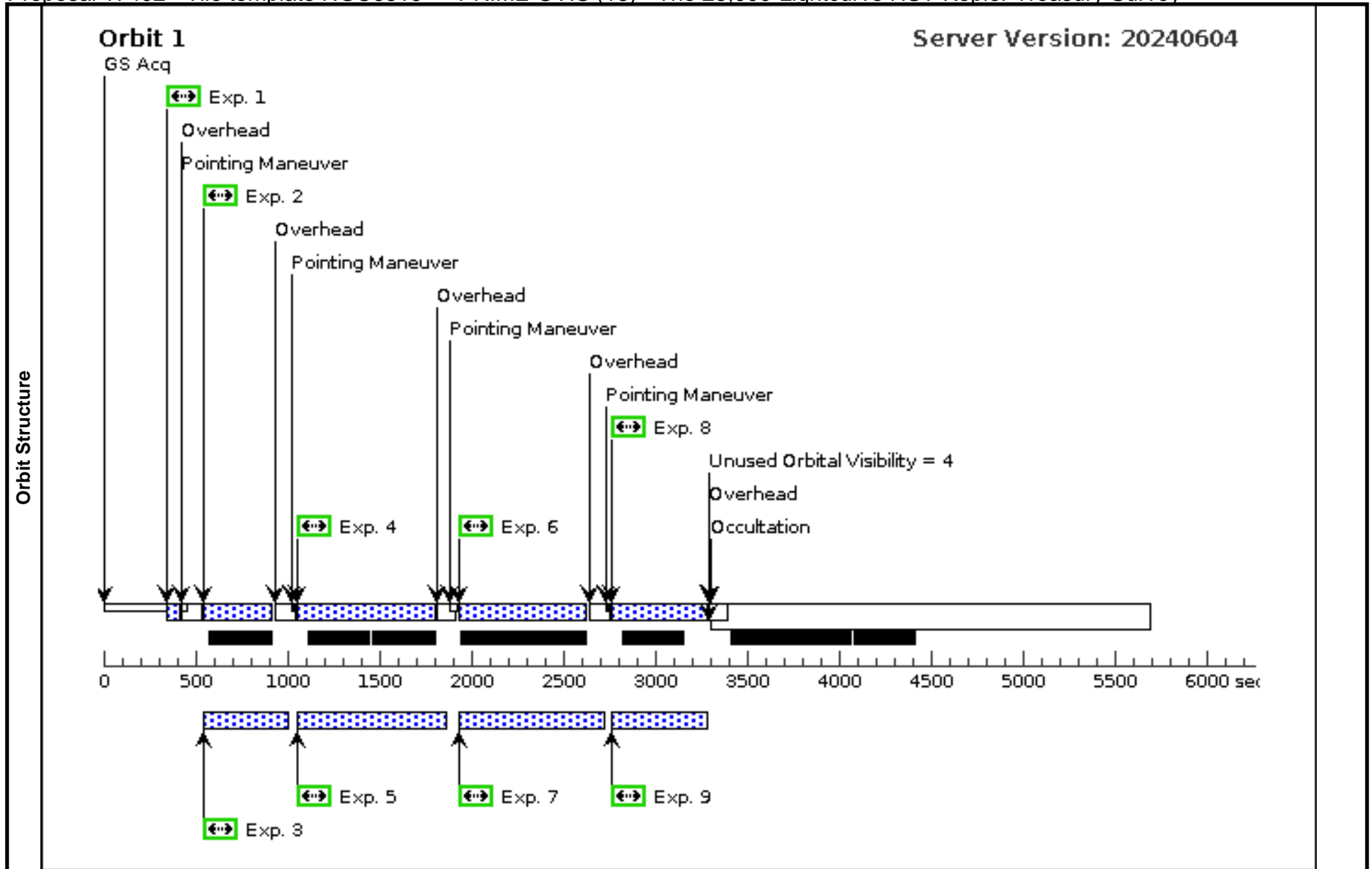
| | | | | | | | | | | |
|---|---|--------------|---|---|----------------------|---------------------|--|---|--|--------------|
| Visit | Proposal 17402, Tile template NGC6819 --- PRIME-UVIS (17), pi Diagnostic Status: Informational Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 70%; SAME ORIENT AS 16; AFTER 16; VISIBILITY INTERVAL 3300 S | | | | | | | | | |
| | (Tile template NGC6819 --- PRIME-UVIS (17)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | | Fluxes | Miscellaneous | | | |
| | (2) | NGC-6819 | RA: 19 41 18.1000 (295.3254167d) Dec: +40 11 12.00 (40.18667d) Equinox: J2000 | Proper Motion RA: -2.544806826743376E-4 sec of time/yr Proper Motion Dec: - 0.0038560000120924087 arcsec/yr Epoch of Position: 2015.5 | | V=7.3 | Reference Frame: SIMBAD | | | |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STELLAR CLUSTER Description=[OPEN CLUSTER] Extended=YES | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F350LP | FLASH=14 | POS TARG 73.5548 7747622576,-69.092 90691519202 | | 40 Secs (40 Secs) [==>] | [1] |
| | 2 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F606W | FLASH=9 | POS TARG 51.5548 77476225755,-91.09 290691519202 | Prime + Parallel Group 2-3 in Tile template NGC6819 --- PRIME-UVIS (17) | 348 Secs (348 Secs) [==>] | [1] |
| | 3 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F606W | | | Prime + Parallel Group 2-3 in Tile template NGC6819 --- PRIME-UVIS (17) | 258 Secs (258 Secs) [==>] | [1] |
| | 4 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F814W | | POS TARG 55.5548 77476225755,-87.09 290691519202 | Prime + Parallel Group 4-5 in Tile template NGC6819 --- PRIME-UVIS (17) | 729 Secs (729 Secs) [==>] | [1] |
| | 5 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F814W | | | Prime + Parallel Group 4-5 in Tile template NGC6819 --- PRIME-UVIS (17) | 635 Secs (635 Secs) [==>] | [1] |
| | 6 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F814W | FLASH=8 | POS TARG 101.554 87747622576,-41.09 290691519202 | Prime + Parallel Group 6-7 in Tile template NGC6819 --- PRIME-UVIS (17) | 697 Secs (697 Secs) [==>] | [1] |
| | 7 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F814W | | | Prime + Parallel Group 6-7 in Tile template NGC6819 --- PRIME-UVIS (17) | 666 Secs (666 Secs) [==>] | [1] |
| | 8 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F606W | | POS TARG 105.554 87747622576,-37.09 290691519202 | Prime + Parallel Group 8-9 in Tile template NGC6819 --- PRIME-UVIS (17) | 496 Secs (496 Secs) [==>] | [1] |
| | 9 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F606W | | | Prime + Parallel Group 8-9 in Tile template NGC6819 --- PRIME-UVIS (17) | 338 Secs (338 Secs) [==>] | [1] |



Proposal 17402 - Tile template NGC6819 --- PRIME-UVIS (18) - The 25,000-Lightcurve HST-Kepler Treasury Survey

Mon Aug 12 15:00:27 GMT 2024

| | | | | | | | | | | |
|---|---|--------------|---|---|----------------------|---------------------|---|---|--|--------------|
| Visit | Proposal 17402, Tile template NGC6819 --- PRIME-UVIS (18), pi Diagnostic Status: Informational Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 70%; SAME ORIENT AS 16; AFTER 16; VISIBILITY INTERVAL 3300 S | | | | | | | | | |
| | (Tile template NGC6819 --- PRIME-UVIS (18)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | | Fluxes | Miscellaneous | | | |
| | (2) | NGC-6819 | RA: 19 41 18.1000 (295.3254167d) Dec: +40 11 12.00 (40.18667d) Equinox: J2000 | Proper Motion RA: -2.544806826743376E-4 sec of time/yr Proper Motion Dec: - 0.0038560000120924087 arcsec/yr Epoch of Position: 2015.5 | | V=7.3 | Reference Frame: SIMBAD | | | |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STELLAR CLUSTER Description=[OPEN CLUSTER] Extended=YES | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F350LP | FLASH=14 | POS TARG -73.554 87747622576,69.092 90691519202 | | 40 Secs (40 Secs) [==>] | [1] |
| | 2 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F606W | FLASH=9 | POS TARG -95.554 87747622576,47.092 90691519202 | Prime + Parallel Group 2-3 in Tile template NGC6819 --- PRIME-UVIS (18) | 348 Secs (348 Secs) [==>] | [1] |
| | 3 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F606W | | | Prime + Parallel Group 2-3 in Tile template NGC6819 --- PRIME-UVIS (18) | 258 Secs (258 Secs) [==>] | [1] |
| | 4 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F814W | | POS TARG -91.554 87747622576,51.092 90691519202 | Prime + Parallel Group 4-5 in Tile template NGC6819 --- PRIME-UVIS (18) | 729 Secs (729 Secs) [==>] | [1] |
| | 5 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F814W | | | Prime + Parallel Group 4-5 in Tile template NGC6819 --- PRIME-UVIS (18) | 635 Secs (635 Secs) [==>] | [1] |
| | 6 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F814W | FLASH=8 | POS TARG -45.554 877476225755,97.09 290691519202 | Prime + Parallel Group 6-7 in Tile template NGC6819 --- PRIME-UVIS (18) | 697 Secs (697 Secs) [==>] | [1] |
| | 7 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F814W | | | Prime + Parallel Group 6-7 in Tile template NGC6819 --- PRIME-UVIS (18) | 666 Secs (666 Secs) [==>] | [1] |
| | 8 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F606W | | POS TARG -41.554 877476225755,101.0 9290691519202 | Prime + Parallel Group 8-9 in Tile template NGC6819 --- PRIME-UVIS (18) | 496 Secs (496 Secs) [==>] | [1] |
| | 9 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F606W | | | Prime + Parallel Group 8-9 in Tile template NGC6819 --- PRIME-UVIS (18) | 338 Secs (338 Secs) [==>] | [1] |



Proposal 17402 - Tile template NGC6819 --- PRIME-UVIS (19) - The 25,000-Lightcurve HST-Kepler Treasury Survey

Mon Aug 12 15:00:27 GMT 2024

| | | | | | | | | | | |
|---|---|--------------|---|---|----------------------|---------------------|--|---|--|--------------|
| Visit | Proposal 17402, Tile template NGC6819 --- PRIME-UVIS (19), pi Diagnostic Status: Informational Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 70%; SAME ORIENT AS 16; AFTER 16; VISIBILITY INTERVAL 3300 S | | | | | | | | | |
| | (Tile template NGC6819 --- PRIME-UVIS (19)) Informational (Form): The Visit Planner and Spike may produce different schedulability results. | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | | Fluxes | Miscellaneous | | | |
| | (2) | NGC-6819 | RA: 19 41 18.1000 (295.3254167d) Dec: +40 11 12.00 (40.18667d) Equinox: J2000 | Proper Motion RA: -2.544806826743376E-4 sec of time/yr Proper Motion Dec: - 0.0038560000120924087 arcsec/yr Epoch of Position: 2015.5 | | V=7.3 | Reference Frame: SIMBAD | | | |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STELLAR CLUSTER Description=[OPEN CLUSTER] Extended=YES | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F350LP | FLASH=14 | POS TARG 73.5548 7747622576,79.3798 23084808 | | 40 Secs (40 Secs) [==>] | [1] |
| | 2 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F606W | FLASH=9 | POS TARG 51.5548 77476225755,57.379 823084807995 | Prime + Parallel Group 2-3 in Tile template NGC6819 --- PRIME-UVIS (19) | 348 Secs (348 Secs) [==>] | [1] |
| | 3 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F606W | | | Prime + Parallel Group 2-3 in Tile template NGC6819 --- PRIME-UVIS (19) | 258 Secs (258 Secs) [==>] | [1] |
| | 4 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F814W | | POS TARG 55.5548 77476225755,61.379 823084807995 | Prime + Parallel Group 4-5 in Tile template NGC6819 --- PRIME-UVIS (19) | 729 Secs (729 Secs) [==>] | [1] |
| | 5 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F814W | | | Prime + Parallel Group 4-5 in Tile template NGC6819 --- PRIME-UVIS (19) | 635 Secs (635 Secs) [==>] | [1] |
| | 6 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F814W | FLASH=8 | POS TARG 101.554 87747622576,107.37 9823084808 | Prime + Parallel Group 6-7 in Tile template NGC6819 --- PRIME-UVIS (19) | 697 Secs (697 Secs) [==>] | [1] |
| | 7 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F814W | | | Prime + Parallel Group 6-7 in Tile template NGC6819 --- PRIME-UVIS (19) | 666 Secs (666 Secs) [==>] | [1] |
| | 8 | (2) NGC-6819 | (2) NGC-6819 | WFC3/UVIS, ACCUM, UVIS-CENTER | F606W | | POS TARG 105.554 87747622576,111.37 9823084808 | Prime + Parallel Group 8-9 in Tile template NGC6819 --- PRIME-UVIS (19) | 496 Secs (496 Secs) [==>] | [1] |
| | 9 | (2) NGC-6819 | (2) NGC-6819 | ACS/WFC, ACCUM, WFC | F606W | | | Prime + Parallel Group 8-9 in Tile template NGC6819 --- PRIME-UVIS (19) | 338 Secs (338 Secs) [==>] | [1] |

