



16655 - Betelgeuse: An Iconic and Surprising Red Supergiant

Cycle: 29, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> |
|--|--|
| Dr. Andrea Dupree (PI) (Contact) | Smithsonian Institution Astrophysical Observatory |
| Dr. Miguel Montarges (CoI) (ESA Member) | Observatoire de Paris - Section de Meudon |
| Thomas Calderwood (CoI) | American Association Of Variable Star Observers |
| Prof. Klaus G Strassmeier (CoI) (ESA Member) | Leibniz-Institut für Astrophysik Potsdam (AIP) |
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| Prof. Pierre Kervella (CoI) (ESA Member) | Observatoire de Paris |
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| Dr. alain jorissen (CoI) (ESA Member) | Universite Libre de Bruxelles |
| Dr. Narsireddy Anugu (CoI) | University of Arizona |
| Dr. Thomas Granzer (CoI) (ESA Member) | Leibniz-Institut für Astrophysik Potsdam (AIP) |
| Dr. Gioia Rau (CoI) | NASA Goddard Space Flight Center |
| Dr. William T Thompson (CoI) | ADNET Systems, Inc |
| Dr. Lynn D Matthews (CoI) | Massachusetts Institute of Technology |
| Ms. Emily Cannon (CoI) (ESA Member) | Institute of Astronomy, KU Leuven |
| Dr. Andreas Quirrenbach (CoI) (ESA Member) | Landessternwarte Heidelberg |

VISITS

| <i>Visit</i> | <i>Targets used in Visit</i> | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 01 | (1) HD39801 | STIS/CCD STIS/NUV-MAMA | 4 | 09-Mar-2023 14:00:19.0 | yes |
| 51 | (1) HD39801 | STIS/CCD STIS/NUV-MAMA | 4 | 09-Mar-2023 14:00:21.0 | yes |
| 02 | (1) HD39801 | STIS/CCD STIS/NUV-MAMA | 4 | 09-Mar-2023 14:00:23.0 | yes |
| 03 | (1) HD39801 | STIS/CCD STIS/NUV-MAMA | 4 | 09-Mar-2023 14:00:24.0 | yes |
| 04 | (1) HD39801 | STIS/CCD STIS/NUV-MAMA | 4 | 09-Mar-2023 14:00:26.0 | yes |
| 05 | (1) HD39801 | STIS/CCD STIS/NUV-MAMA | 4 | 09-Mar-2023 14:00:28.0 | yes |

24 Total Orbits Used

ABSTRACT

Multiple ultraviolet spectra of the nearby red supergiant, Betelgeuse, using STIS will enable unique spatially resolved measures of photospheric and chromospheric structure and mass inflows and outflows. This follows the historic dimming of the star captured by HST/STIS in 2019-2020, and will probe the unusual atmospheric structure following the dimming event. An HST campaign of 2 cycles will be complemented by multi-frequency photometry, spectroscopy, interferometry and polarimetry at radio, infrared, and optical wavelengths in order to map surface structures and their variability, and the extended outer atmosphere over both the short (420-day) and long, secondary (2000-day) periods of this supergiant. These observations, coupled with detailed modeling and simulations, will probe the structure, dynamics, and mass loss from Betelgeuse to provide crucial insights into the atmospheric physics and wind-driving mechanisms of red supergiants.

OBSERVING DESCRIPTION

During Cycle 29 (the first cycle of a two cycle program), we will make 5 visits of 4 orbits each to the red supergiant Betelgeuse; visits spread over the times of target accessibility. Using the smallest aperture (0.025X0.1") of STIS, the NUV-MAMA E230M (2707) setting, we propose to obtain spectra at 5 positions on the ultraviolet image: center peakup, +/-25 mas, and +/-50 mas offsets.

Exposure time at center: 2040 sec.

Exposure times at +/-25 mas: 2520 - 3000 sec

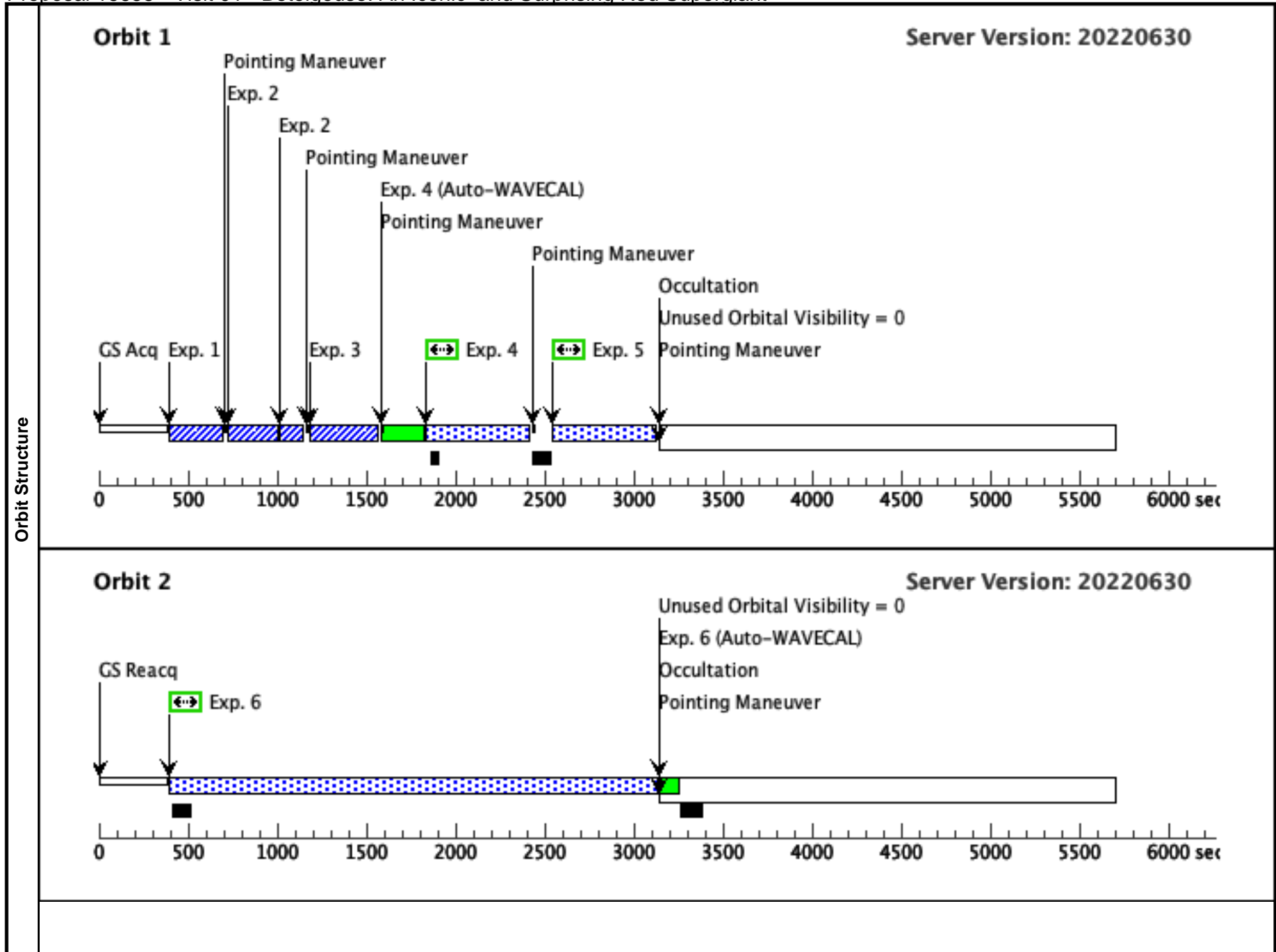
Exposure times at +/-50 mas: 600 sec

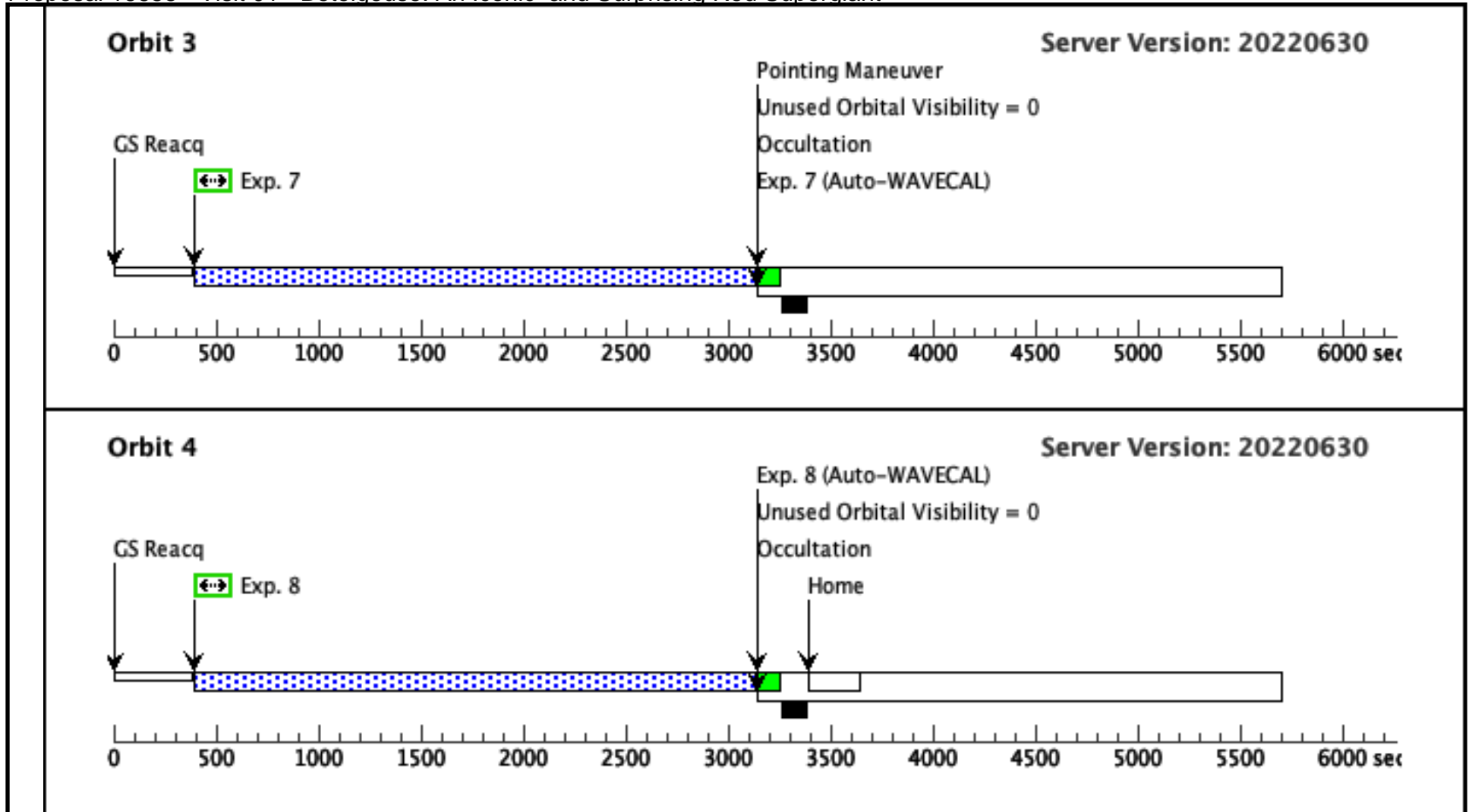
We plan a tomographic analysis of the absorption line spectra at center, +/-25 mas, so require S/N ~ 50 at those positions.

Proposal 16655 - Visit 01 - Betelgeuse: An Iconic and Surprising Red Superqiant

Thu Mar 09 19:00:28 GMT 2023

| Visit | Proposal 16655, Visit 01, failed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|--|------------------|-----------------------|--------------------------|--------|---------------------------------|-------|--|---|-----------------|--------------------|--------------------------|---------------|---------------|---------------|---------|---|--|--------------|-----------------------|-------------|-----------------------|--------|--|--|--|--------------------------|-----|---|--|-------------|------------------------------|------------------|--|--|--|--------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|--|-------------|------------------------------|------------------|--|--|--|--------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|-----------|-------------|-----------------------------------|-----------------|--|--------------------------|--|------------------------------|-----|---|-----------|-------------|-----------------------------------|-----------------|--|--------------------------|--|------------------------------|-----|---|-----------|-------------|-----------------------------------|-----------------|--|--|--|--------------------------------|-----|-------------------------------|--|--|--|--|--|--|--|--|--|---|-----------|-------------|-----------------------------------|-----------------|--|--------------------------|--|--------------------------------|-----|---|-----------|-------------|-----------------------------------|-----------------|--|--------------------------|--|--------------------------------|-----|
| Diagnostics | (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <table border="1" data-bbox="142 483 1999 649"> <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>HD39801</td> <td>RA: 05 55 10.3341 (88.7930588d) Dec: +07 24 25.61 (7.40711d) Equinox: J2000</td> <td>Proper Motion RA: 0.0018514500429161387 sec of time/yr Proper Motion Dec: 0.011300000000000001 arcsec/yr Epoch of Position: 2015.5</td> <td>V=0.42+/-0.2</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p data-bbox="142 656 1999 698"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p data-bbox="142 704 1999 737">Category=STAR Description=[M III-I]</p> | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (1) | HD39801 | RA: 05 55 10.3341 (88.7930588d) Dec: +07 24 25.61 (7.40711d) Equinox: J2000 | Proper Motion RA: 0.0018514500429161387 sec of time/yr Proper Motion Dec: 0.011300000000000001 arcsec/yr Epoch of Position: 2015.5 | V=0.42+/-0.2 | Reference Frame: ICRS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Exposures | <table border="1" data-bbox="142 743 1999 1393"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(1) HD39801</td> <td>STIS/CCD, ACQ, F25ND5</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td></td> <td>(1) HD39801</td> <td>STIS/CCD, ACQ/PEAK, 0.2X0.09</td> <td>G230LB 2375 A</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10" data-bbox="142 932 1999 958"><i>Comments: 3 pt linear pickup; telescope returned to central dwell position.</i></td> </tr> <tr> <td>3</td> <td></td> <td>(1) HD39801</td> <td>STIS/CCD, ACQ/PEAK, 0.1X0.03</td> <td>G230LB 2375 A</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10" data-bbox="142 1029 1999 1055"><i>Comments: Spiral in 0.1X0.03 aperature.</i></td> </tr> <tr> <td>4</td> <td>(1526014)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td>POS TARG +0.050, null</td> <td></td> <td>567 Secs (567 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>(1526014)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td>POS TARG -0.050,n ull</td> <td></td> <td>567 Secs (567 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>6</td> <td>(1525642)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td></td> <td></td> <td>2723 Secs (2723 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td colspan="10" data-bbox="142 1250 1999 1276"><i>Comments: Center point</i></td> </tr> <tr> <td>7</td> <td>(1525642)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td>POS TARG +0.025, null</td> <td></td> <td>2723 Secs (2723 Secs) [==>]</td> <td>[3]</td> </tr> <tr> <td>8</td> <td>(1525642)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td>POS TARG -0.025,n ull</td> <td></td> <td>2723 Secs (2723 Secs) [==>]</td> <td>[4]</td> </tr> </tbody> </table> | | | | | | | | | | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | 1 | | (1) HD39801 | STIS/CCD, ACQ, F25ND5 | MIRROR | | | | 1 Secs (1 Secs) [==>] | [1] | 2 | | (1) HD39801 | STIS/CCD, ACQ/PEAK, 0.2X0.09 | G230LB 2375 A | | | | 1 Secs (1 Secs) [==>] | [1] | <i>Comments: 3 pt linear pickup; telescope returned to central dwell position.</i> | | | | | | | | | | 3 | | (1) HD39801 | STIS/CCD, ACQ/PEAK, 0.1X0.03 | G230LB 2375 A | | | | 1 Secs (1 Secs) [==>] | [1] | <i>Comments: Spiral in 0.1X0.03 aperature.</i> | | | | | | | | | | 4 | (1526014) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG +0.050, null | | 567 Secs (567 Secs) [==>] | [1] | 5 | (1526014) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG -0.050,n ull | | 567 Secs (567 Secs) [==>] | [1] | 6 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | | | 2723 Secs (2723 Secs) [==>] | [2] | <i>Comments: Center point</i> | | | | | | | | | | 7 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG +0.025, null | | 2723 Secs (2723 Secs) [==>] | [3] | 8 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG -0.025,n ull | | 2723 Secs (2723 Secs) [==>] | [4] |
| # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | (1) HD39801 | STIS/CCD, ACQ, F25ND5 | MIRROR | | | | 1 Secs (1 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | (1) HD39801 | STIS/CCD, ACQ/PEAK, 0.2X0.09 | G230LB 2375 A | | | | 1 Secs (1 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments: 3 pt linear pickup; telescope returned to central dwell position.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | (1) HD39801 | STIS/CCD, ACQ/PEAK, 0.1X0.03 | G230LB 2375 A | | | | 1 Secs (1 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments: Spiral in 0.1X0.03 aperature.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | (1526014) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG +0.050, null | | 567 Secs (567 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | (1526014) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG -0.050,n ull | | 567 Secs (567 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | | | 2723 Secs (2723 Secs) [==>] | [2] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments: Center point</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG +0.025, null | | 2723 Secs (2723 Secs) [==>] | [3] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG -0.025,n ull | | 2723 Secs (2723 Secs) [==>] | [4] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

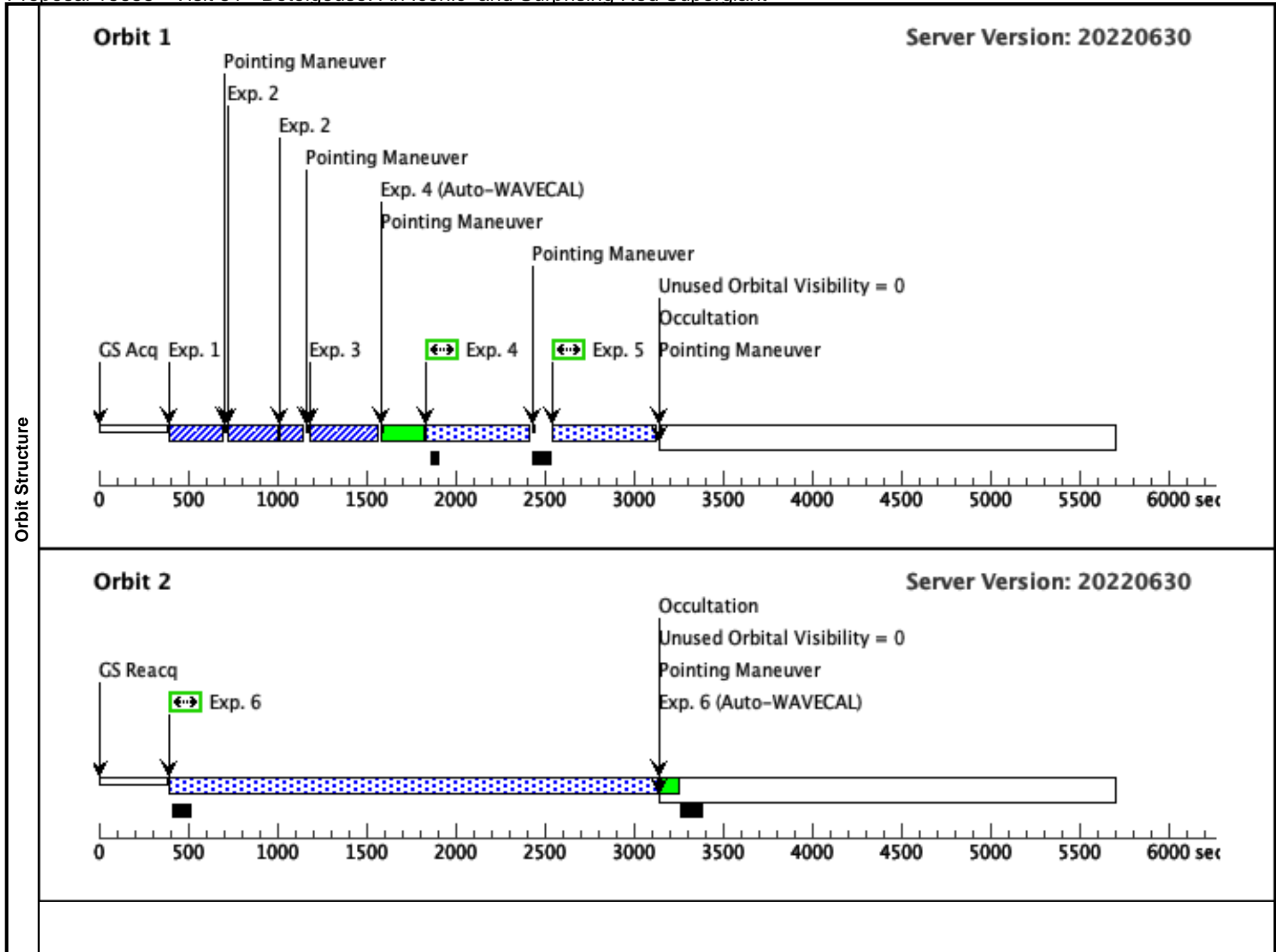


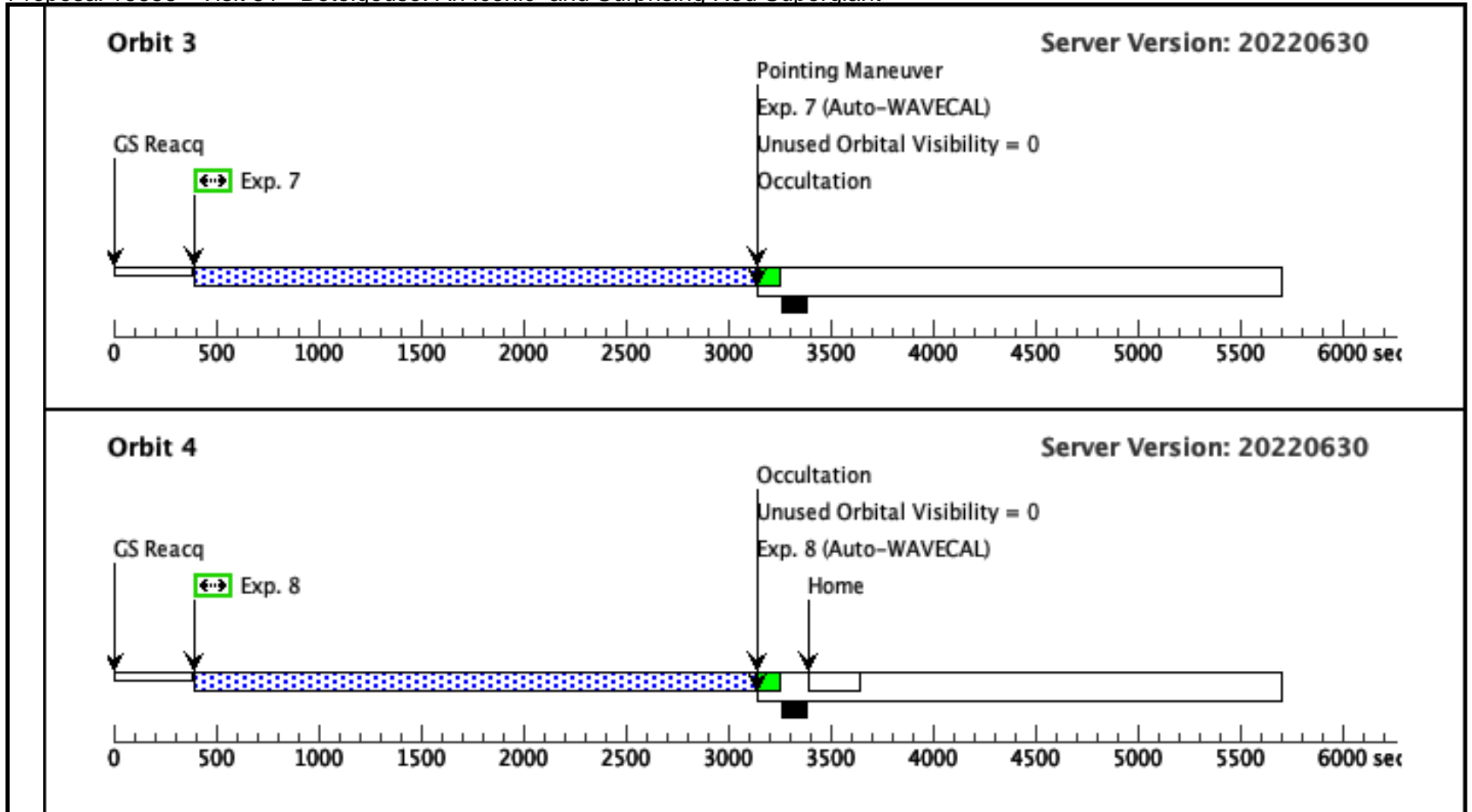


Proposal 16655 - Visit 51 - Betelgeuse: An Iconic and Surprising Red Superqiant

Thu Mar 09 19:00:29 GMT 2023

| Visit | Proposal 16655, Visit 51 Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--|------------------|-----------------------|--------------------------|--------|---------------------------------|-------|--|---|-----------------|--------------------|--------------------------|---------------|---------------|---------------|---------|---|--|--------------|-----------------------|-------------|-----------------------|--------|--|--|--|--------------------------|-----|---|--|-------------|------------------------------|------------------|--|--|--|--------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|--|-------------|------------------------------|------------------|--|--|--|--------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|-----------|-------------|-----------------------------------|-----------------|--|--------------------------|--|------------------------------|-----|---|-----------|-------------|-----------------------------------|-----------------|--|--------------------------|--|------------------------------|-----|---|-----------|-------------|-----------------------------------|-----------------|--|--|--|--------------------------------|-----|-------------------------------|--|--|--|--|--|--|--|--|--|---|-----------|-------------|-----------------------------------|-----------------|--|--------------------------|--|--------------------------------|-----|---|-----------|-------------|-----------------------------------|-----------------|--|--------------------------|--|--------------------------------|-----|
| Diagnostics | (Visit 51) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 51) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 51) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 51) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 51) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 51) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 51) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 51) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <table border="1" data-bbox="136 479 2005 738"> <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>HD39801</td> <td>RA: 05 55 10.3341 (88.7930588d) Dec: +07 24 25.61 (7.40711d) Equinox: J2000</td> <td>Proper Motion RA: 0.0018514500429161387 sec of time/yr Proper Motion Dec: 0.011300000000000001 arcsec/yr Epoch of Position: 2015.5</td> <td>V=0.42+/-0.2</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[M III-I]</p> | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (1) | HD39801 | RA: 05 55 10.3341 (88.7930588d) Dec: +07 24 25.61 (7.40711d) Equinox: J2000 | Proper Motion RA: 0.0018514500429161387 sec of time/yr Proper Motion Dec: 0.011300000000000001 arcsec/yr Epoch of Position: 2015.5 | V=0.42+/-0.2 | Reference Frame: ICRS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Exposures | <table border="1" data-bbox="136 738 2005 1393"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(1) HD39801</td> <td>STIS/CCD, ACQ, F25ND5</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td></td> <td>(1) HD39801</td> <td>STIS/CCD, ACQ/PEAK, 0.2X0.09</td> <td>G230LB 2375 A</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: 3 pt linear pickup; telescope returned to central dwell position.</i></td> </tr> <tr> <td>3</td> <td></td> <td>(1) HD39801</td> <td>STIS/CCD, ACQ/PEAK, 0.1X0.03</td> <td>G230LB 2375 A</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: Spiral in 0.1X0.03 aperature.</i></td> </tr> <tr> <td>4</td> <td>(1526014)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td>POS TARG +0.050, null</td> <td></td> <td>567 Secs (567 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>(1526014)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td>POS TARG -0.050,n ull</td> <td></td> <td>567 Secs (567 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>6</td> <td>(1525642)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td></td> <td></td> <td>2723 Secs (2723 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td colspan="10"><i>Comments: Center point</i></td> </tr> <tr> <td>7</td> <td>(1525642)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td>POS TARG +0.025, null</td> <td></td> <td>2723 Secs (2723 Secs) [==>]</td> <td>[3]</td> </tr> <tr> <td>8</td> <td>(1525642)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td>POS TARG -0.025,n ull</td> <td></td> <td>2723 Secs (2723 Secs) [==>]</td> <td>[4]</td> </tr> </tbody> </table> | | | | | | | | | | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | 1 | | (1) HD39801 | STIS/CCD, ACQ, F25ND5 | MIRROR | | | | 1 Secs (1 Secs) [==>] | [1] | 2 | | (1) HD39801 | STIS/CCD, ACQ/PEAK, 0.2X0.09 | G230LB 2375 A | | | | 1 Secs (1 Secs) [==>] | [1] | <i>Comments: 3 pt linear pickup; telescope returned to central dwell position.</i> | | | | | | | | | | 3 | | (1) HD39801 | STIS/CCD, ACQ/PEAK, 0.1X0.03 | G230LB 2375 A | | | | 1 Secs (1 Secs) [==>] | [1] | <i>Comments: Spiral in 0.1X0.03 aperature.</i> | | | | | | | | | | 4 | (1526014) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG +0.050, null | | 567 Secs (567 Secs) [==>] | [1] | 5 | (1526014) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG -0.050,n ull | | 567 Secs (567 Secs) [==>] | [1] | 6 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | | | 2723 Secs (2723 Secs) [==>] | [2] | <i>Comments: Center point</i> | | | | | | | | | | 7 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG +0.025, null | | 2723 Secs (2723 Secs) [==>] | [3] | 8 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG -0.025,n ull | | 2723 Secs (2723 Secs) [==>] | [4] |
| # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | (1) HD39801 | STIS/CCD, ACQ, F25ND5 | MIRROR | | | | 1 Secs (1 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | (1) HD39801 | STIS/CCD, ACQ/PEAK, 0.2X0.09 | G230LB 2375 A | | | | 1 Secs (1 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments: 3 pt linear pickup; telescope returned to central dwell position.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | (1) HD39801 | STIS/CCD, ACQ/PEAK, 0.1X0.03 | G230LB 2375 A | | | | 1 Secs (1 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments: Spiral in 0.1X0.03 aperature.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | (1526014) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG +0.050, null | | 567 Secs (567 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | (1526014) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG -0.050,n ull | | 567 Secs (567 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | | | 2723 Secs (2723 Secs) [==>] | [2] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments: Center point</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG +0.025, null | | 2723 Secs (2723 Secs) [==>] | [3] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG -0.025,n ull | | 2723 Secs (2723 Secs) [==>] | [4] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

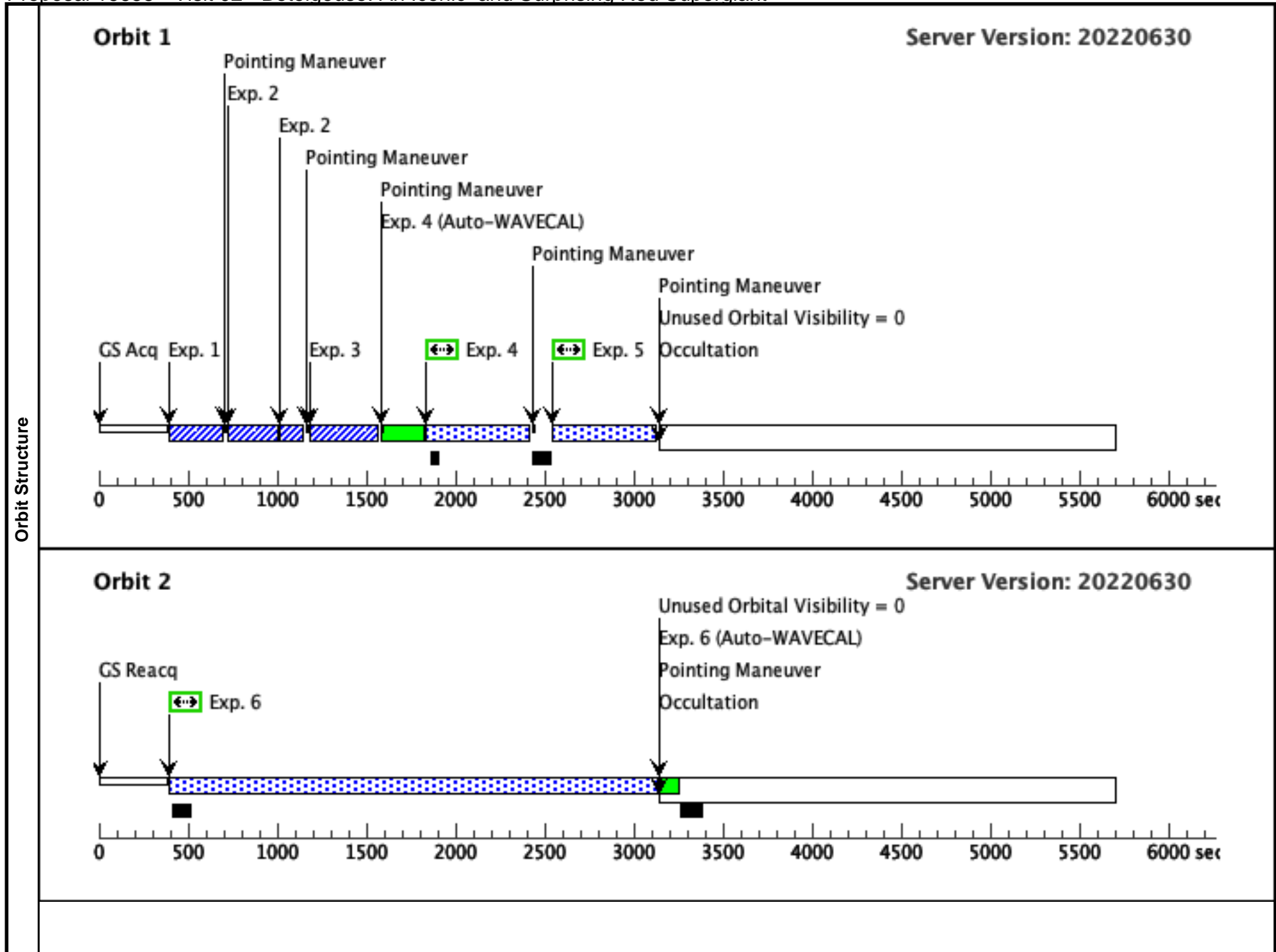


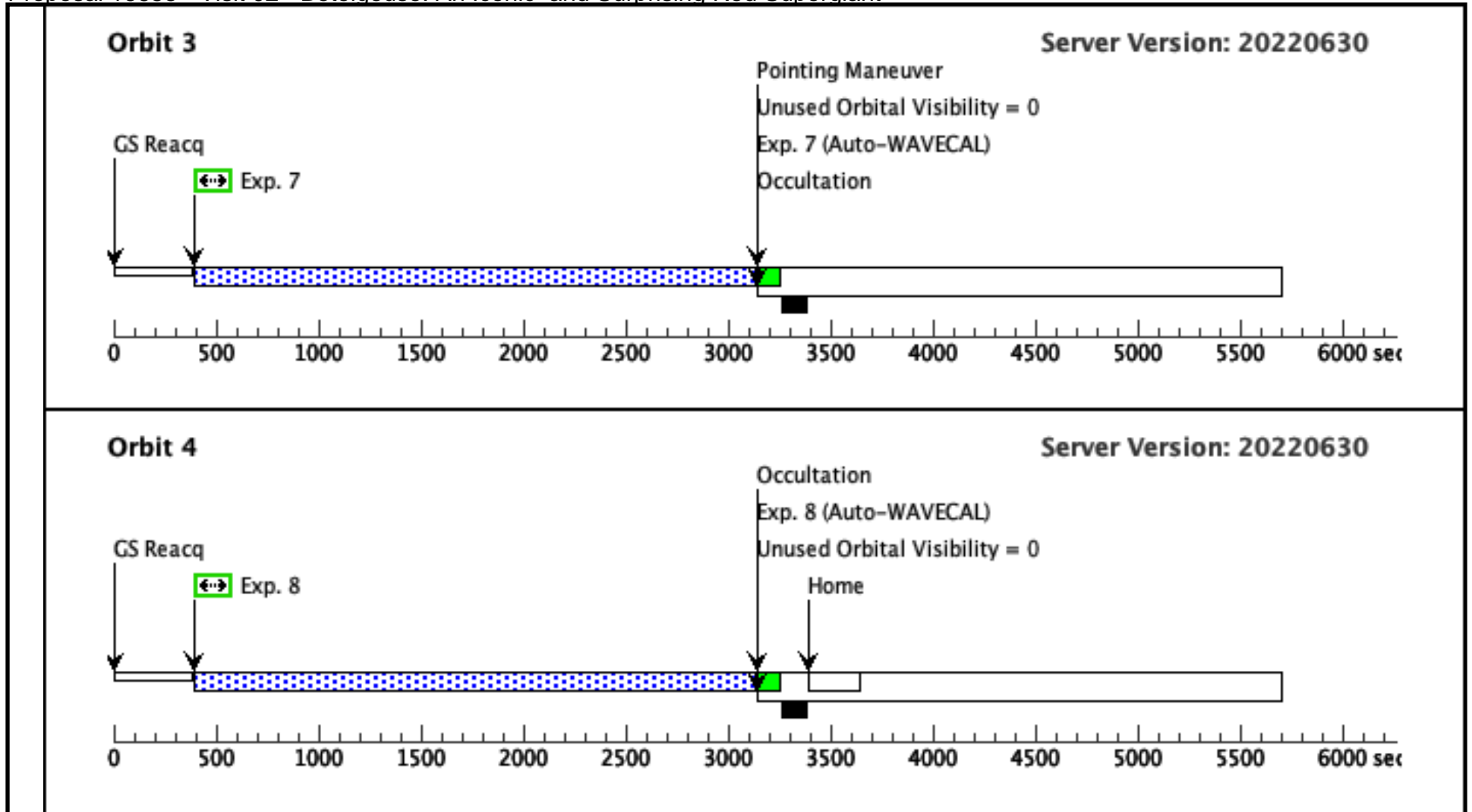


Proposal 16655 - Visit 02 - Betelgeuse: An Iconic and Surprising Red Superqiant

Thu Mar 09 19:00:29 GMT 2023

| Visit | Proposal 16655, Visit 02, completed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: BETWEEN 02-JAN-2022:00:00:00 AND 24-JAN-2022:23:00:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--|------------------|-----------------------|--------------------------|--------|---------------------------------|-------|--|---|-----------------|--------------------|--------------------------|---------------|---------------|---------------|---------|---|--|--------------|-----------------------|-------------|-----------------------|--------|--|--|--|--------------------------|-----|---|--|-------------|------------------------------|------------------|--|--|--|--------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|--|-------------|------------------------------|------------------|--|--|--|--------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|-----------|-------------|-----------------------------------|-----------------|--|--------------------------|--|------------------------------|-----|---|-----------|-------------|-----------------------------------|-----------------|--|--------------------------|--|------------------------------|-----|---|-----------|-------------|-----------------------------------|-----------------|--|--|--|--------------------------------|-----|-------------------------------|--|--|--|--|--|--|--|--|--|---|-----------|-------------|-----------------------------------|-----------------|--|--------------------------|--|--------------------------------|-----|---|-----------|-------------|-----------------------------------|-----------------|--|--------------------------|--|--------------------------------|-----|
| Diagnostics | (Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <table border="1" data-bbox="136 479 2005 738"> <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>HD39801</td> <td>RA: 05 55 10.3341 (88.7930588d) Dec: +07 24 25.61 (7.40711d) Equinox: J2000</td> <td>Proper Motion RA: 0.0018514500429161387 sec of time/yr Proper Motion Dec: 0.011300000000000001 arcsec/yr Epoch of Position: 2015.5</td> <td>V=0.42+/-0.2</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[M III-I]</p> | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (1) | HD39801 | RA: 05 55 10.3341 (88.7930588d) Dec: +07 24 25.61 (7.40711d) Equinox: J2000 | Proper Motion RA: 0.0018514500429161387 sec of time/yr Proper Motion Dec: 0.011300000000000001 arcsec/yr Epoch of Position: 2015.5 | V=0.42+/-0.2 | Reference Frame: ICRS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (1) | HD39801 | RA: 05 55 10.3341 (88.7930588d) Dec: +07 24 25.61 (7.40711d) Equinox: J2000 | Proper Motion RA: 0.0018514500429161387 sec of time/yr Proper Motion Dec: 0.011300000000000001 arcsec/yr Epoch of Position: 2015.5 | V=0.42+/-0.2 | Reference Frame: ICRS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exposures | <table border="1" data-bbox="136 738 2005 1393"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config, Mode, Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(1) HD39801</td> <td>STIS/CCD, ACQ, F25ND5</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td></td> <td>(1) HD39801</td> <td>STIS/CCD, ACQ/PEAK, 0.2X0.09</td> <td>G230LB 2375 A</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: 3 pt linear pickup; telescope returned to central dwell position.</i></td> </tr> <tr> <td>3</td> <td></td> <td>(1) HD39801</td> <td>STIS/CCD, ACQ/PEAK, 0.1X0.03</td> <td>G230LB 2375 A</td> <td></td> <td></td> <td></td> <td>1 Secs (1 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: Spiral in 0.1X0.03 aperature.</i></td> </tr> <tr> <td>4</td> <td>(1526014)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td>POS TARG +0.050, null</td> <td></td> <td>567 Secs (567 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>(1526014)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td>POS TARG -0.050, null</td> <td></td> <td>567 Secs (567 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>6</td> <td>(1525642)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td></td> <td></td> <td>2723 Secs (2723 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td colspan="10"><i>Comments: Center point</i></td> </tr> <tr> <td>7</td> <td>(1525642)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td>POS TARG +0.025, null</td> <td></td> <td>2723 Secs (2723 Secs) [==>]</td> <td>[3]</td> </tr> <tr> <td>8</td> <td>(1525642)</td> <td>(1) HD39801</td> <td>STIS/NUV-MAMA, ACCUM, 0.1X0.03</td> <td>E230M 2707 A</td> <td></td> <td>POS TARG -0.025, null</td> <td></td> <td>2723 Secs (2723 Secs) [==>]</td> <td>[4]</td> </tr> </tbody> </table> | | | | | | | | | | # | Label (ETC Run) | Target | Config, Mode, Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | 1 | | (1) HD39801 | STIS/CCD, ACQ, F25ND5 | MIRROR | | | | 1 Secs (1 Secs) [==>] | [1] | 2 | | (1) HD39801 | STIS/CCD, ACQ/PEAK, 0.2X0.09 | G230LB 2375 A | | | | 1 Secs (1 Secs) [==>] | [1] | <i>Comments: 3 pt linear pickup; telescope returned to central dwell position.</i> | | | | | | | | | | 3 | | (1) HD39801 | STIS/CCD, ACQ/PEAK, 0.1X0.03 | G230LB 2375 A | | | | 1 Secs (1 Secs) [==>] | [1] | <i>Comments: Spiral in 0.1X0.03 aperature.</i> | | | | | | | | | | 4 | (1526014) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG +0.050, null | | 567 Secs (567 Secs) [==>] | [1] | 5 | (1526014) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG -0.050, null | | 567 Secs (567 Secs) [==>] | [1] | 6 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | | | 2723 Secs (2723 Secs) [==>] | [2] | <i>Comments: Center point</i> | | | | | | | | | | 7 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG +0.025, null | | 2723 Secs (2723 Secs) [==>] | [3] | 8 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG -0.025, null | | 2723 Secs (2723 Secs) [==>] | [4] |
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| <i>Comments: Center point</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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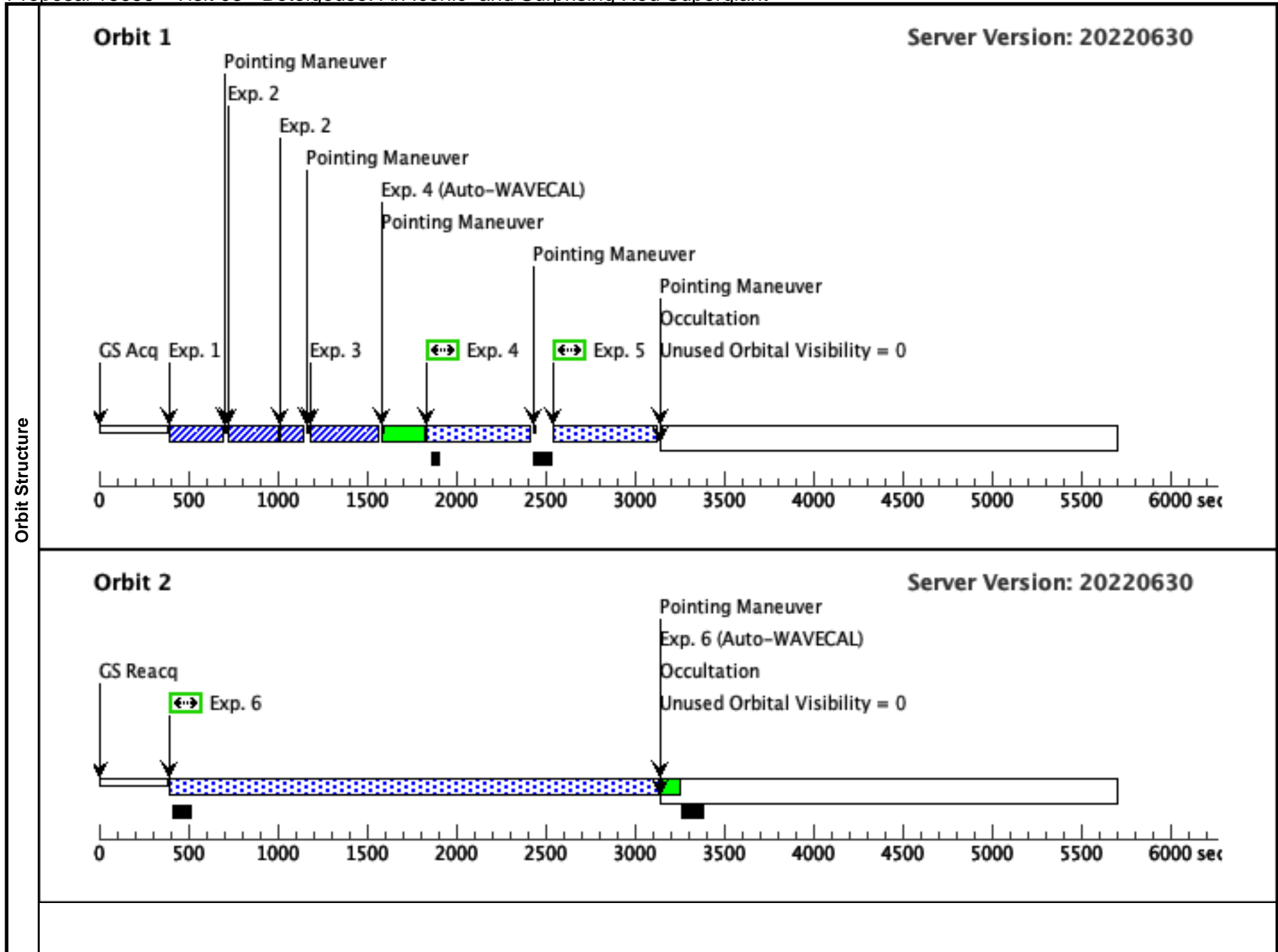


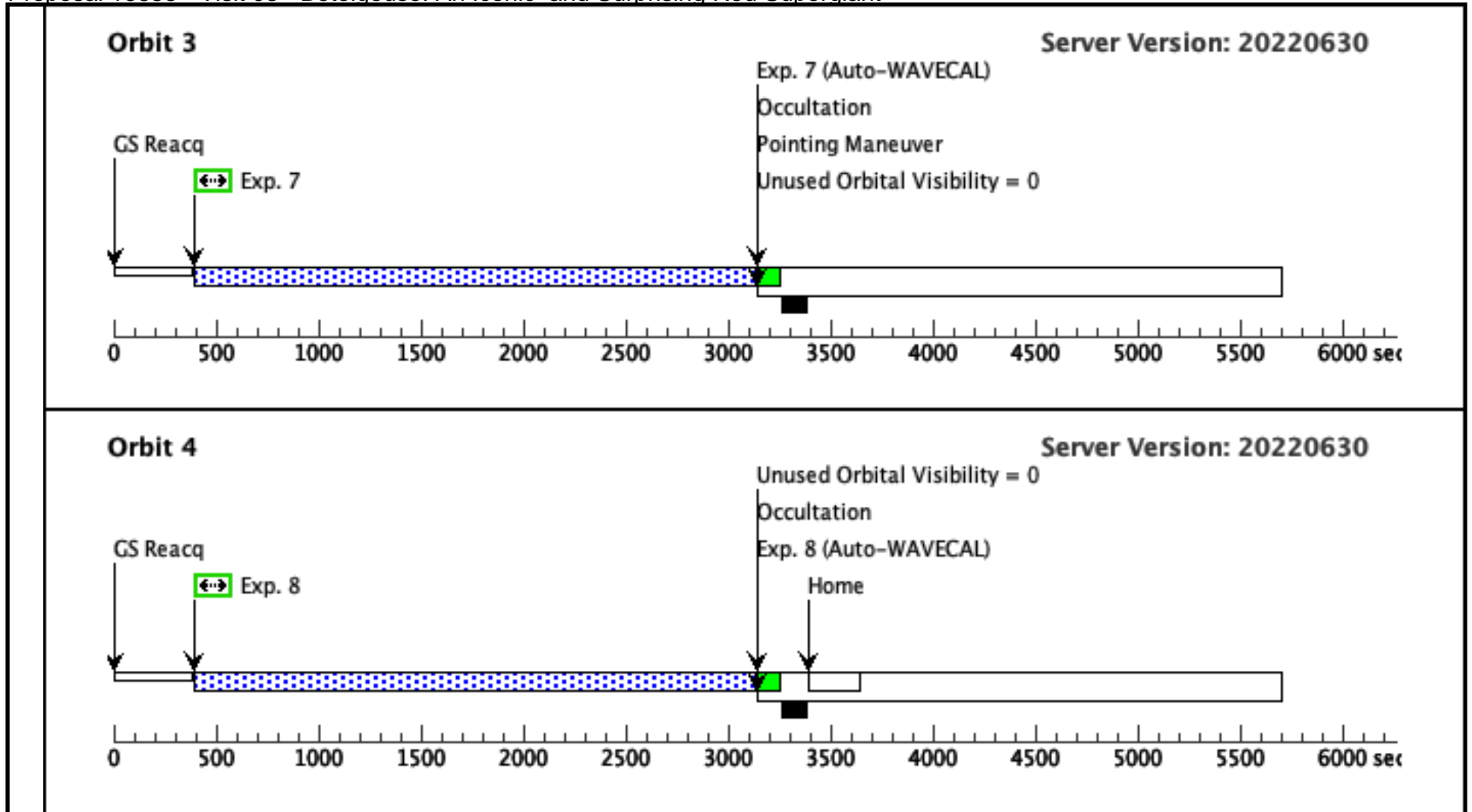


Proposal 16655 - Visit 03 - Betelgeuse: An Iconic and Surprising Red Superqiant

Thu Mar 09 19:00:29 GMT 2023

| Visit | Proposal 16655, Visit 03, completed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 02 BY 28 D TO 32 D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--|------------------|-----------------------|-----------------------|--------|---------------------------------|-------|--|---|-----------------|--------------------|--------------------------|---------------|---------------|---------------|---------|---|--|--------------|-----------------------|-------------|-----------------------|--------|--|--|--|--------------------------|-----|---|--|-------------|------------------------------|------------------|--|--|--|--------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|--|-------------|------------------------------|------------------|--|--|--|--------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|-----------|-------------|--------------------------------|-----------------|--|-----------------------|--|------------------------------|-----|---|-----------|-------------|--------------------------------|-----------------|--|-----------------------|--|------------------------------|-----|---|-----------|-------------|--------------------------------|-----------------|--|--|--|--------------------------------|-----|-------------------------------|--|--|--|--|--|--|--|--|--|---|-----------|-------------|--------------------------------|-----------------|--|-----------------------|--|--------------------------------|-----|---|-----------|-------------|--------------------------------|-----------------|--|-----------------------|--|--------------------------------|-----|
| Diagnostics | (Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <table border="1" data-bbox="136 479 2005 738"> <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>HD39801</td> <td>RA: 05 55 10.3341 (88.7930588d) Dec: +07 24 25.61 (7.40711d) Equinox: J2000</td> <td>Proper Motion RA: 0.0018514500429161387 sec of time/yr Proper Motion Dec: 0.011300000000000001 arcsec/yr Epoch of Position: 2015.5</td> <td>V=0.42+/-0.2</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[M III-I]</p> | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (1) | HD39801 | RA: 05 55 10.3341 (88.7930588d) Dec: +07 24 25.61 (7.40711d) Equinox: J2000 | Proper Motion RA: 0.0018514500429161387 sec of time/yr Proper Motion Dec: 0.011300000000000001 arcsec/yr Epoch of Position: 2015.5 | V=0.42+/-0.2 | Reference Frame: ICRS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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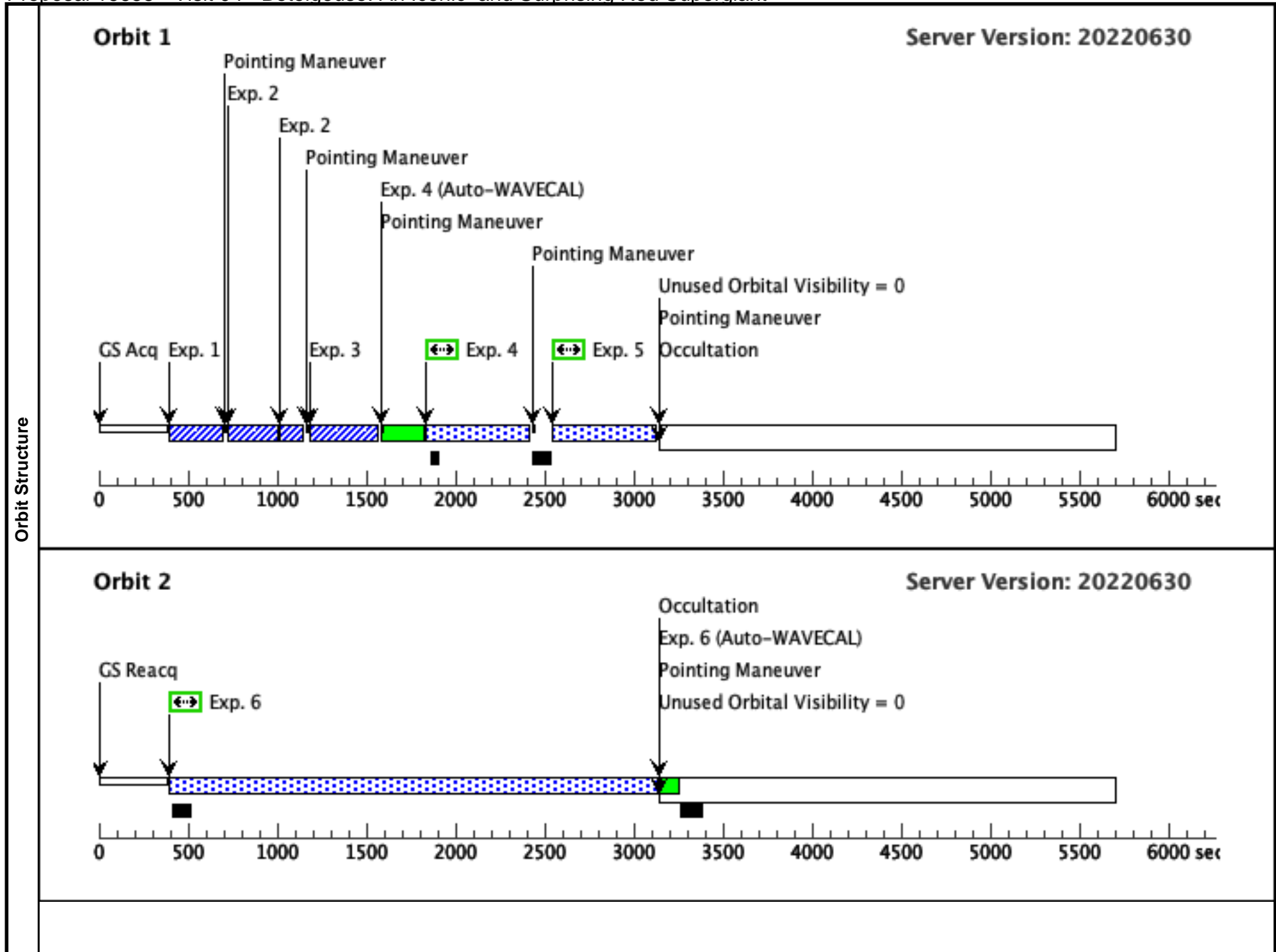


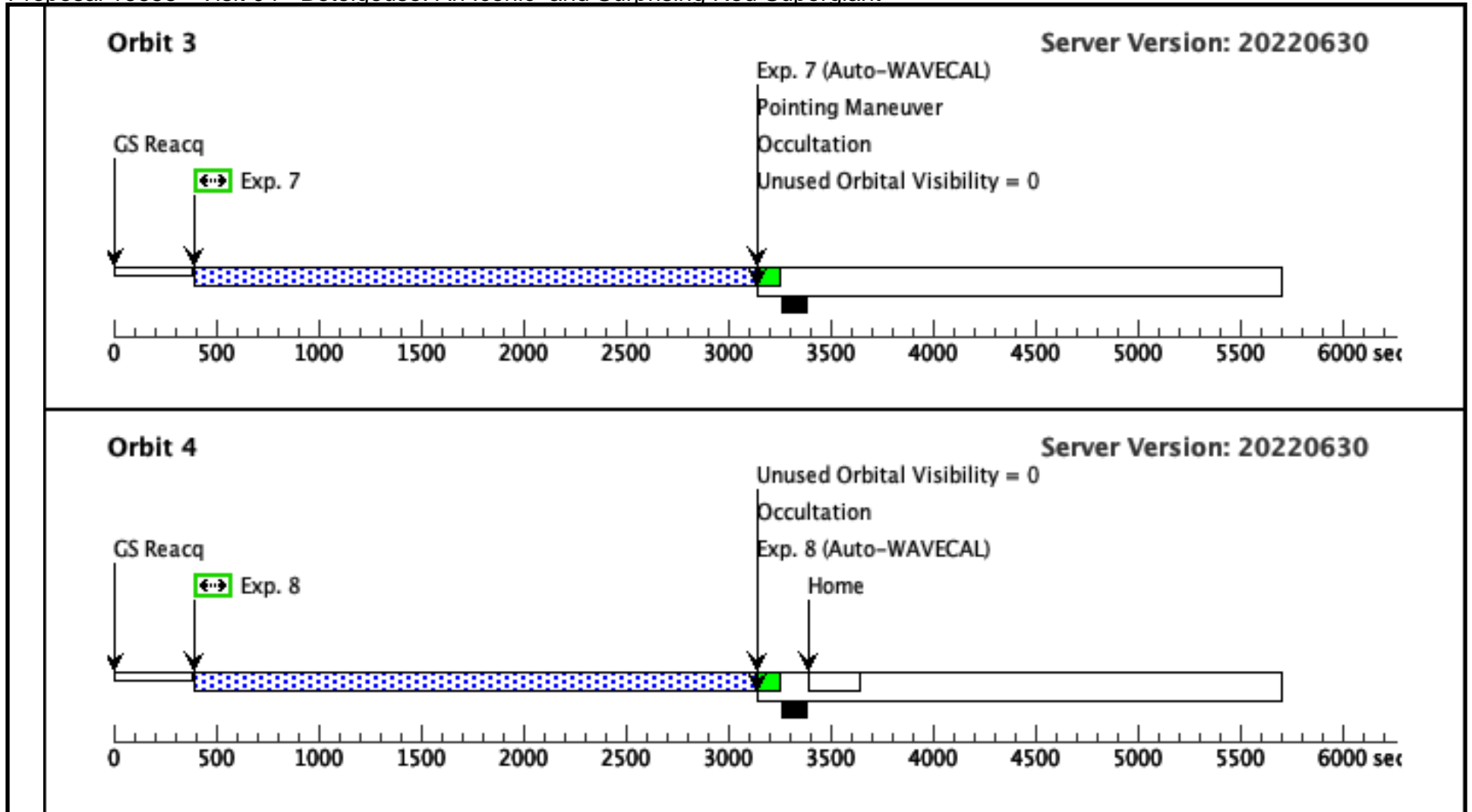


Proposal 16655 - Visit 04 - Betelgeuse: An Iconic and Surprising Red Superqiant

Thu Mar 09 19:00:29 GMT 2023

| Visit | Proposal 16655, Visit 04, completed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 03 BY 28 D TO 32 D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|--|--------------------------------|-----------------------|--------------------------|--------------------------|--------------------------------|---------------------------------|-------|---|-----------------|--------------------|--------------------------|---------------|---------------|---------------|---------|---|--|--------------|-----------------------|-------------|-----------------------|--------|--|--|--|--------------------------|-----|---|--|-------------|------------------------------|------------------|--|--|--|--------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|--|-------------|------------------------------|------------------|--|--|--|--------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|-----------|-------------|--------------------------------|-----------------|--|--------------------------|--|------------------------------|-----|---|-----------|-------------|--------------------------------|-----------------|--|--------------------------|--|------------------------------|-----|---|-----------|-------------|--------------------------------|-----------------|--|--|--|--------------------------------|-----|-------------------------------|--|--|--|--|--|--|--|--|--|---|-----------|-------------|--------------------------------|-----------------|--|--------------------------|--|--------------------------------|-----|---|-----------|-------------|--------------------------------|-----------------|--|--------------------------|--|--------------------------------|-----|
| | (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Diagnosics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 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>HD39801</td> <td>RA: 05 55 10.3341 (88.7930588d) Dec: +07 24 25.61 (7.40711d) Equinox: J2000</td> <td>Proper Motion RA: 0.0018514500429161387 sec of time/yr Proper Motion Dec: 0.011300000000000001 arcsec/yr Epoch of Position: 2015.5</td> <td>V=0.42+/-0.2</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[M III-I]</p> | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (1) | HD39801 | RA: 05 55 10.3341 (88.7930588d) Dec: +07 24 25.61 (7.40711d) Equinox: J2000 | Proper Motion RA: 0.0018514500429161387 sec of time/yr Proper Motion Dec: 0.011300000000000001 arcsec/yr Epoch of Position: 2015.5 | V=0.42+/-0.2 | Reference Frame: ICRS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <i>Comments: Center point</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Proposal 16655 - Visit 05 - Betelgeuse: An Iconic and Surprising Red Superqiant

Thu Mar 09 19:00:29 GMT 2023

| Visit | Proposal 16655, Visit 05, completed Diagnostic Status: Warning Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: AFTER 04 BY 28 D TO 32 D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|--|------------------|-----------------------|-----------------------|--------|---------------------------------|-------|--|---|-----------------|--------------------|--------------------------|---------------|---------------|---------------|---------|---|--|--------------|-----------------------|-------------|-----------------------|--------|--|--|--|--------------------------|-----|---|--|-------------|------------------------------|------------------|--|--|--|--------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|--|-------------|------------------------------|------------------|--|--|--|--------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|-----------|-------------|--------------------------------|-----------------|--|-----------------------|--|------------------------------|-----|---|-----------|-------------|--------------------------------|-----------------|--|-----------------------|--|------------------------------|-----|---|-----------|-------------|--------------------------------|-----------------|--|--|--|--------------------------------|-----|-------------------------------|--|--|--|--|--|--|--|--|--|---|-----------|-------------|--------------------------------|-----------------|--|-----------------------|--|--------------------------------|-----|---|-----------|-------------|--------------------------------|-----------------|--|-----------------------|--|--------------------------------|-----|
| Diagnostics | (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <table border="1" data-bbox="136 479 2005 738"> <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>HD39801</td> <td>RA: 05 55 10.3341 (88.7930588d) Dec: +07 24 25.61 (7.40711d) Equinox: J2000</td> <td>Proper Motion RA: 0.0018514500429161387 sec of time/yr Proper Motion Dec: 0.011300000000000001 arcsec/yr Epoch of Position: 2015.5</td> <td>V=0.42+/-0.2</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[M III-I]</p> | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (1) | HD39801 | RA: 05 55 10.3341 (88.7930588d) Dec: +07 24 25.61 (7.40711d) Equinox: J2000 | Proper Motion RA: 0.0018514500429161387 sec of time/yr Proper Motion Dec: 0.011300000000000001 arcsec/yr Epoch of Position: 2015.5 | V=0.42+/-0.2 | Reference Frame: ICRS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2 | | (1) HD39801 | STIS/CCD, ACQ/PEAK, 0.2X0.09 | G230LB 2375 A | | | | 1 Secs (1 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments: 3 pt linear pickup; telescope returned to central dwell position.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | (1) HD39801 | STIS/CCD, ACQ/PEAK, 0.1X0.03 | G230LB 2375 A | | | | 1 Secs (1 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments: Spiral in 0.1X0.03 aperature.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | (1526014) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG +0.050, null | | 567 Secs (567 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | (1526014) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG -0.050, null | | 567 Secs (567 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | | | 2723 Secs (2723 Secs) [==>] | [2] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments: Center point</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG +0.025, null | | 2723 Secs (2723 Secs) [==>] | [3] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | (1525642) | (1) HD39801 | STIS/NUV-MAMA, ACCUM, 0.1X0.03 | E230M 2707 A | | POS TARG -0.025, null | | 2723 Secs (2723 Secs) [==>] | [4] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

