



## 17486 - UV-MAGPI: Sharpening our View of Dust Attenuation

Cycle: 31, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

### INVESTIGATORS

| <i>Name</i>                                  | <i>Institution</i>   |
|--|--|
| <b>Dr. Andrew J. Battisti (PI) (Contact)</b> | <b>International Centre for Radio Astronomy Research</b>     |
| Dr. Emily Wisnioski (CoI)                    | Australian National University                               |
| Dr. Jon Trevor Mendel (CoI)                  | Australian National University                               |
| Dr. Claudia Lagos Urbina (CoI)               | University of Western Australia                              |
| Dr. Caroline Foster (CoI)                    | University of Sydney   |
| Prof. Daniela Calzetti (CoI) (AdminUSPI)     | University of Massachusetts - Amherst                        |
| Dr. Irene Shivaiei (CoI) (ESA Member)        | Centro de Astrobiologia (CSIC/INTA) Inst. Nac. de Tec. Aero. |
| Dr. Kathryn Grasha (CoI)                     | Australian National University                               |
| Anshu Gupta (CoI)                            | Curtin University  |
| Dr. Kate Harborne (CoI)                      | University of Western Australia                              |

### 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           | (14) MAGPI1531               | WFC3/UVIS                           | 3                  | 19-Feb-2025 11:00:13.0        | yes                           |
| 12           | (14) MAGPI1531               | WFC3/UVIS                           | 3                  | 19-Feb-2025 11:00:14.0        | yes                           |
| 02           | (2) MAGPI1502                | WFC3/UVIS                           | 3                  | 19-Feb-2025 11:00:15.0        | yes                           |
| 03           | (3) MAGPI1506                | WFC3/UVIS                           | 3                  | 19-Feb-2025 11:00:16.0        | yes                           |
| 04           | (4) MAGPI1507                | WFC3/UVIS                           | 3                  | 19-Feb-2025 11:00:17.0        | yes                           |
| 05           | (5) MAGPI1508                | WFC3/UVIS                           | 3                  | 19-Feb-2025 11:00:18.0        | 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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 06           | (6) MAGPI1530                | WFC3/UVIS                           | 3                  | 19-Feb-2025 11:00:20.0        | yes                           |
| 07           | (7) MAGPI1534                | WFC3/UVIS                           | 3                  | 19-Feb-2025 11:00:21.0        | yes                           |
| 08           | (8) MAGPI2301                | WFC3/UVIS                           | 3                  | 19-Feb-2025 11:00:22.0        | yes                           |
| 09           | (13) MAGPI1206               | WFC3/UVIS                           | 3                  | 19-Feb-2025 11:00:23.0        | yes                           |
| 10           | (10) MAGPI2308               | WFC3/UVIS                           | 3                  | 19-Feb-2025 11:00:24.0        | yes                           |
| 11           | (11) MAGPI2310               | WFC3/UVIS                           | 3                  | 19-Feb-2025 11:00:25.0        | yes                           |

36 Total Orbits Used

## **ABSTRACT**

A description of dust attenuation curves and how they evolve with time is a critical ingredient of future precision studies of distant galaxies. The aim of the UV-MAGPI survey is to develop a revolutionary understanding of how light from galaxies is affected by dust attenuation at varying spatial scales, gas-phase metallicity, and galactic environment. This will help to inform more versatile prescriptions of dust attenuation as a function of cosmic time. We will combine UV data from HST with VLT/MUSE and VISTA, providing rest-frame UV to near-IR coverage, to perform a spatially-resolved ( $\sim 3$ kpc-scales) study of dust attenuation at  $z \sim 0.3$  in 41 star-forming galaxies (SFGs) and in an integrated manner for an additional 57 SFGs (98 total). This is expected to provide fundamental insight into (1) how dust properties, most notably the 2175Å absorption feature, and dust attenuation curves vary within galaxies and between galaxies and (2) which intrinsic galaxy properties are responsible for attenuation variation. The extensive data for these fields will also provide numerous opportunities for legacy science to study spatially-resolved and integrated properties of SFGs and early-type galaxies at low and intermediate redshifts.

## **OBSERVING DESCRIPTION**

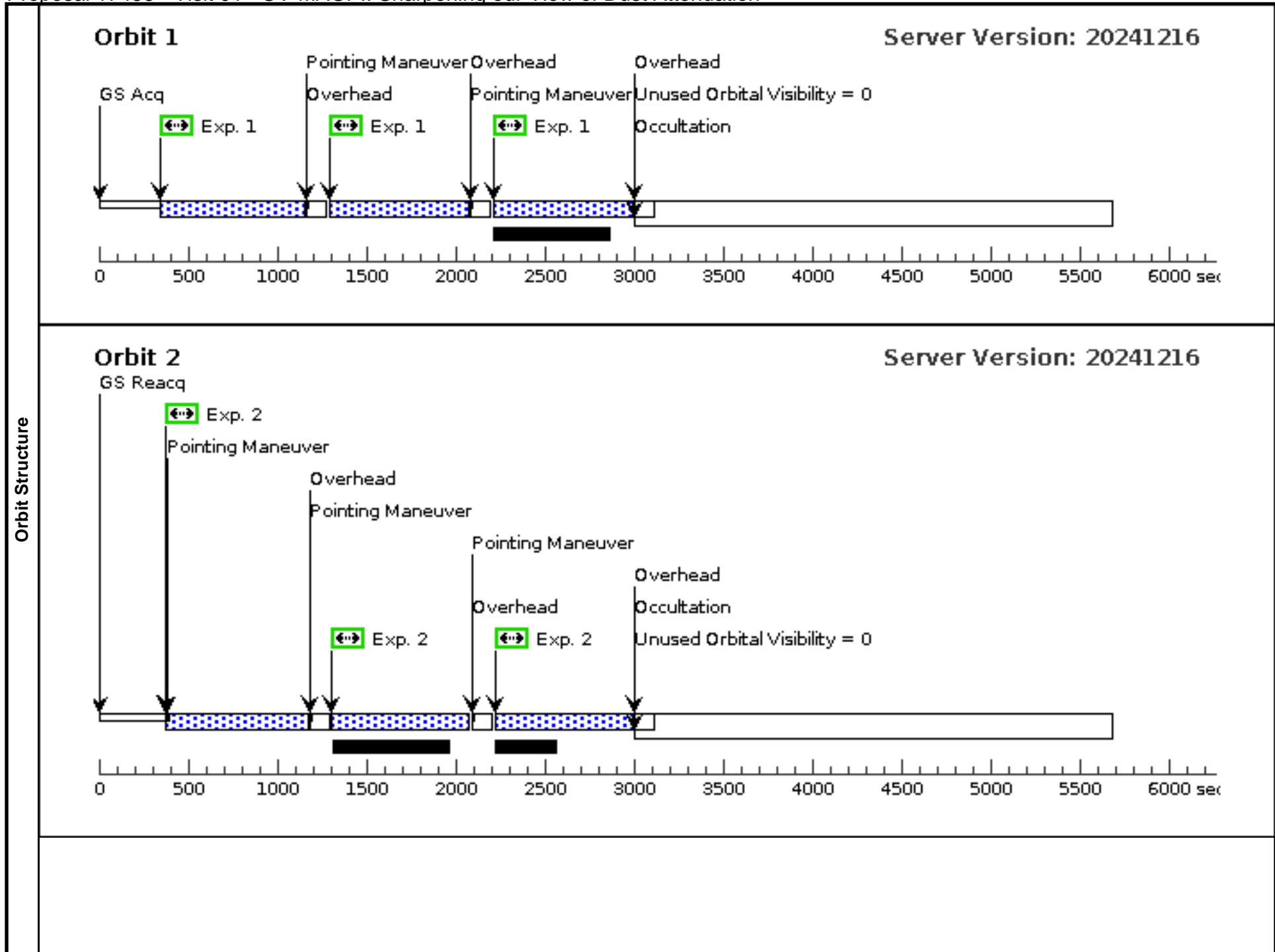
UV-MAGPI will obtain HST WFC3/UVIS UV imaging in 4 filters (F225W, F275W, F336W, F390W) for 11 independent fields with MUSE optical IFS spectroscopy of galaxies at  $0.25 < z < 0.35$ . At  $z \sim 0.3$ , the selected WFC3/UVIS bands provide rest-frame coverage of the 0.18-0.30 $\mu$ m region to characterize the nature of dust attenuation in galaxies. Each field will be observed across 3 orbits: 1 orbit for F225W, 1 orbit for F275W, and 1 orbit for F336W+F390W per field (33 orbits in total). The exposure times are set by the requirement to detect (at  $S/N \sim 4-5$ ) spatially-resolved regions within star forming galaxies at  $z \sim 0.3$  that are experiencing moderate attenuation of their UV light due to dust ( $\mu_R = 23$  AB mag with  $E(B-V)_{\text{star}} = 0.4$ ).

The MUSE FOV (60"x60") is smaller than the WFC3/UVIS FOV (82.04"x163.84") and our targets fit on a single UVIS chip, therefore we do not require mosaicking or have any position angle restrictions. We place the MUSE fields in the center of the more-sensitive chip (Chip 2) using the UVIS2-FIX aperture. We adopt the ACCUM readout and use a standard WFC3-UVIS-DITHER-LINE-3PT pattern to subsample the PSF and to mitigate cosmic rays. This pattern choice does not fill-in the chip gap (not required). We use a post flash ranging from 17-19e- to overcome CTE issues.

Proposal 17486 - Visit 01 - UV-MAGPI: Sharpening our View of Dust Attenuation

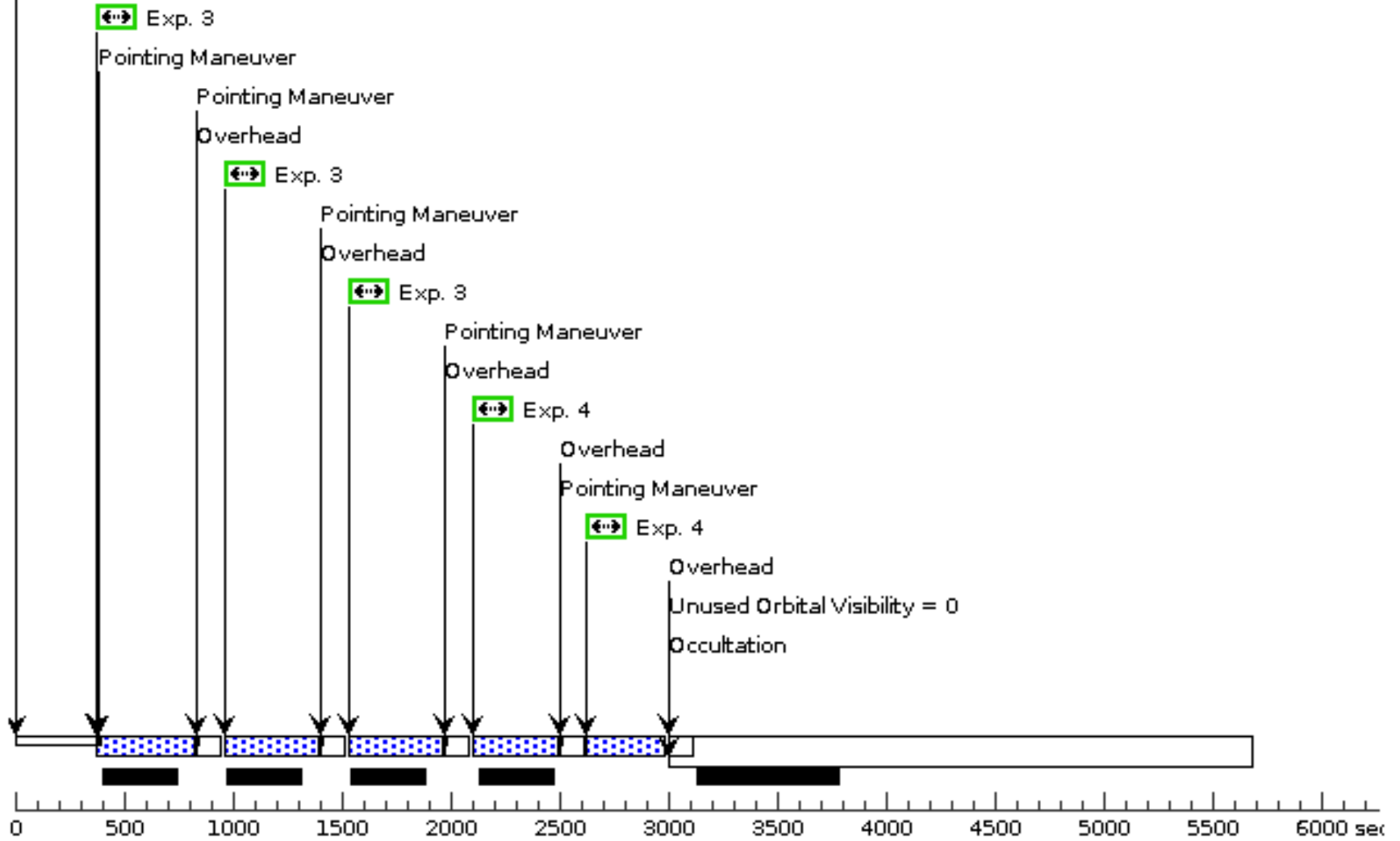
Wed Feb 19 16:00:25 GMT 2025

| Visit   | <b>Proposal 17486, Visit 01, failed</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/UVIS<br>Special Requirements: (none) |  |   |                             |                          |  |               |                                     |                                 |                            |       |     |
|---|--|--|---|-----------------------------|--------------------------|--|---------------|-------------------------------------|---------------------------------|----------------------------|-------|-----|
|   | #  | Primary Pattern  |   |                             |                          | Secondary Pattern  |               |                                     |                                 | Exposures                  |       |     |
| Patterns  | (1)  | Pattern Type=WFC3-UVIS-DITHER-LINE-3PT<br>Purpose=DITHER<br>Number Of Points=3<br>Point Spacing=0.135<br>Line Spacing= |   |                             |                          | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false |               |                                     |                                 | (1), (2), (3)              |       |     |
|   | (2)  | Pattern Type=WFC3-UVIS-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=0.145<br>Line Spacing=     |   |                             |                          | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false |               |                                     |                                 | (4)                        |       |     |
| Fixed Targets   | #  | Name   | Target Coordinates  |                             | Targ. Coord. Corrections |  | Fluxes        |                                     | Miscellaneous                   |                            |       |     |
|   | (14)   | MAGPI1531  | RA: 14 51 36.8410 (222.9035042d)<br>Dec: -01 40 55.63 (-1.68212d)<br>Equinox: J2000 |                             |                          |  | V=18          |                                     | Reference Frame: ICRS           |                            |       |     |
| <i>Comments:</i><br>Category=GALAXY<br>Description=[ELLIPTICAL, SPIRAL] |  |  |   |                             |                          |  |               |                                     |                                 |                            |       |     |
| Exposures   | #  | Label (ETC Run)  | Target  | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.   | Special Reqs. | Groups                              | Exp. Time (Total)/[Actual Dur.] |                            | Orbit |     |
|   | 1  | (1889136)  | (14) MAGPI1531  | WFC3/UVIS, ACCUM, UVIS2-FIX | F225W                    | FLASH=17   |               | Pattern 1, Exps 1-1 in Visit 01 (1) | 780 Secs (2341 Secs)            |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     |                                 | [=>(Pattern 1)]            |       |     |
|   |  |  |   |                             |                          |  |               |                                     |                                 | [=>(Pattern 2)]            |       | [1] |
|   |  |  |   |                             |                          |  |               |                                     |                                 | [=>781.0 Secs (Pattern 3)] |       |     |
| 2   | (1889138)  | (14) MAGPI1531   | WFC3/UVIS, ACCUM, UVIS2-FIX   | F275W                       |                          | FLASH=18   |               | Pattern 1, Exps 2-2 in Visit 01 (1) | 774 Secs (2321 Secs)            |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 1)]                 |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 2)]                 |                            | [2]   |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>773.0 Secs (Pattern 3)]      |                            |       |     |
| 3   | (1889140)  | (14) MAGPI1531   | WFC3/UVIS, ACCUM, UVIS2-FIX   | F336W                       |                          | FLASH=18   |               | Pattern 1, Exps 3-3 in Visit 01 (1) | 431 Secs (1293 Secs)            |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 1)]                 |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 2)]                 |                            | [3]   |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 3)]                 |                            |       |     |
| 4   | (1889141)  | (14) MAGPI1531   | WFC3/UVIS, ACCUM, UVIS2-FIX   | F390W                       |                          | FLASH=16   |               | Pattern 2, Exps 4-4 in Visit 01 (2) | 365 Secs (730 Secs)             |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 1)]                 |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 2)]                 |                            | [3]   |     |



**Orbit 3**

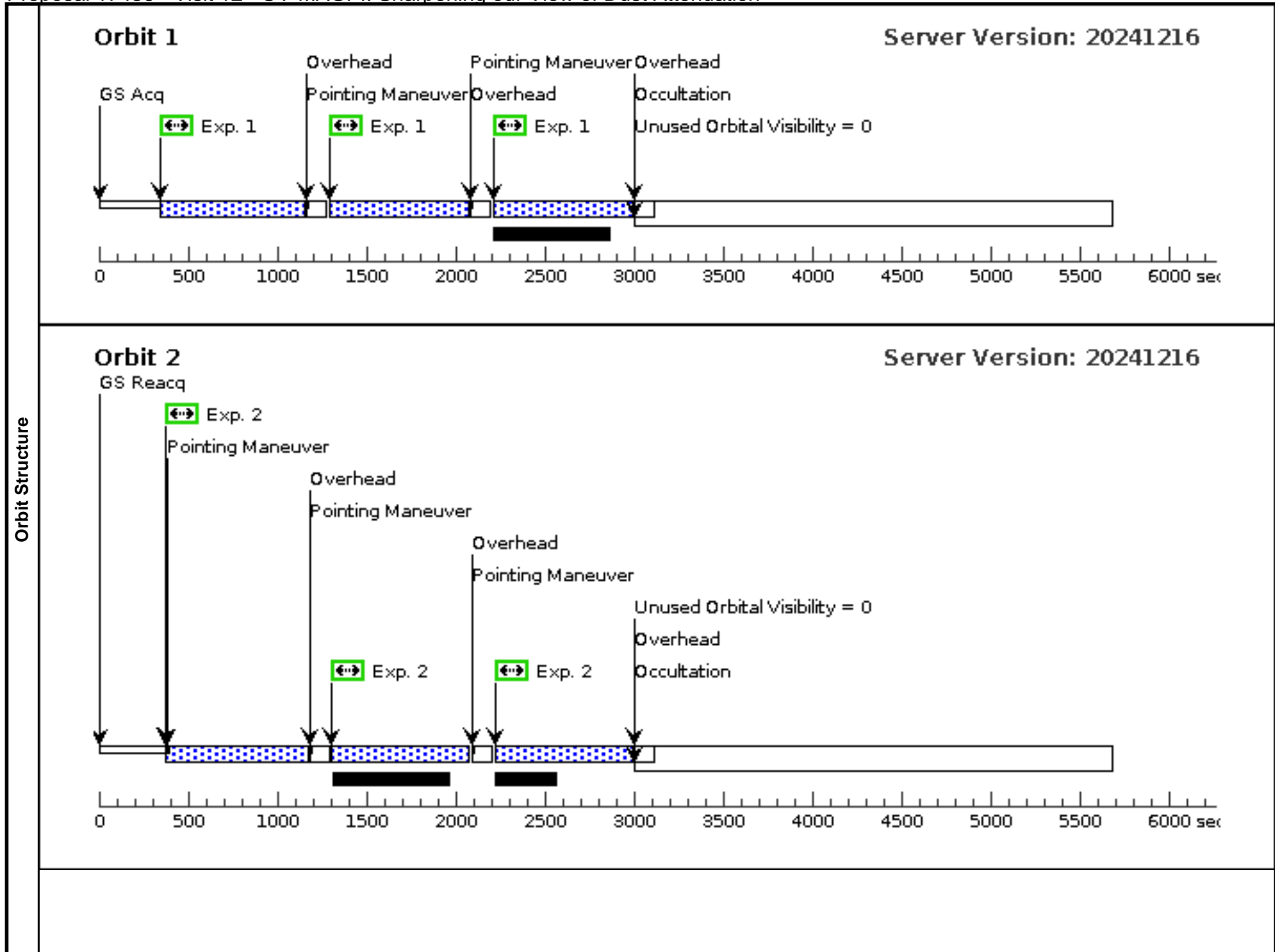
GS Reacq



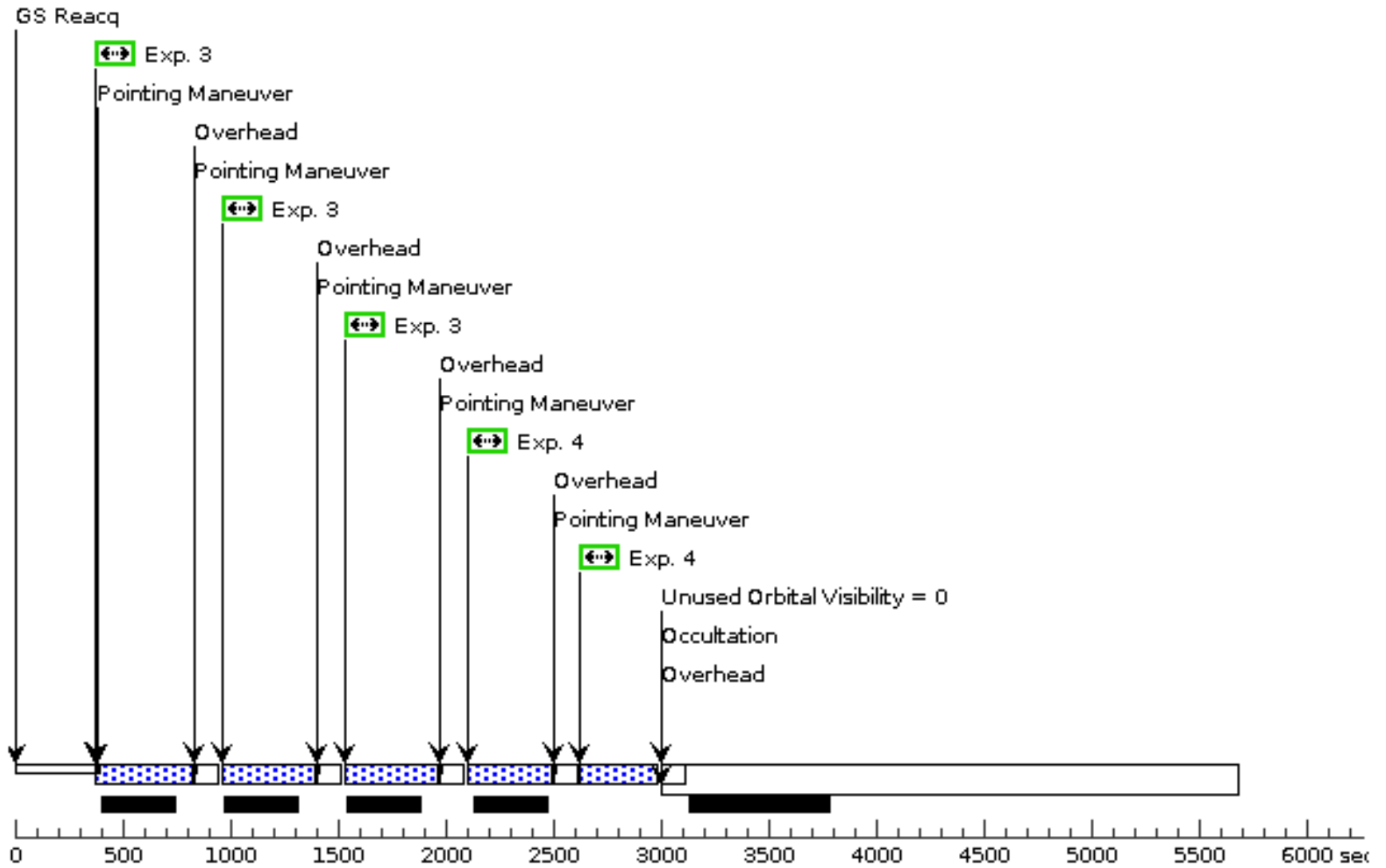
Proposal 17486 - Visit 12 - UV-MAGPI: Sharpening our View of Dust Attenuation

Wed Feb 19 16:00:26 GMT 2025

| Visit   | <b>Proposal 17486, Visit 12</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/UVIS<br>Special Requirements: (none) |  |   |                             |                          |  |               |                                     |                                 |                            |       |     |
|---|--|--|---|-----------------------------|--------------------------|--|---------------|-------------------------------------|---------------------------------|----------------------------|-------|-----|
|   | #  | Primary Pattern  |   |                             |                          | Secondary Pattern  |               |                                     |                                 | Exposures                  |       |     |
| Patterns  | (1)  | Pattern Type=WFC3-UVIS-DITHER-LINE-3PT<br>Purpose=DITHER<br>Number Of Points=3<br>Point Spacing=0.135<br>Line Spacing= |   |                             |                          | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false |               |                                     |                                 | (1), (2), (3)              |       |     |
|   | (2)  | Pattern Type=WFC3-UVIS-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=0.145<br>Line Spacing=     |   |                             |                          | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false |               |                                     |                                 | (4)                        |       |     |
| Fixed Targets   | #  | Name   | Target Coordinates  |                             | Targ. Coord. Corrections |  | Fluxes        |                                     | Miscellaneous                   |                            |       |     |
|   | (14)   | MAGPI1531  | RA: 14 51 36.8410 (222.9035042d)<br>Dec: -01 40 55.63 (-1.68212d)<br>Equinox: J2000 |                             |                          |  | V=18          |                                     | Reference Frame: ICRS           |                            |       |     |
| <i>Comments:</i><br>Category=GALAXY<br>Description=[ELLIPTICAL, SPIRAL] |  |  |   |                             |                          |  |               |                                     |                                 |                            |       |     |
| Exposures   | #  | Label (ETC Run)  | Target  | Config,Mode,Aperture        | Spectral Els.            | Opt. Params.   | Special Reqs. | Groups                              | Exp. Time (Total)/[Actual Dur.] |                            | Orbit |     |
|   | 1  | (1889136)  | (14) MAGPI1531  | WFC3/UVIS, ACCUM, UVIS2-FIX | F225W                    | FLASH=17   |               | Pattern 1, Exps 1-1 in Visit 12 (1) | 780 Secs (2341 Secs)            |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     |                                 | [=>(Pattern 1)]            |       |     |
|   |  |  |   |                             |                          |  |               |                                     |                                 | [=>(Pattern 2)]            |       | [1] |
|   |  |  |   |                             |                          |  |               |                                     |                                 | [=>781.0 Secs (Pattern 3)] |       |     |
| 2   | (1889138)  | (14) MAGPI1531   | WFC3/UVIS, ACCUM, UVIS2-FIX   | F275W                       |                          | FLASH=18   |               | Pattern 1, Exps 2-2 in Visit 12 (1) | 774 Secs (2321 Secs)            |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 1)]                 |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 2)]                 |                            | [2]   |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>773.0 Secs (Pattern 3)]      |                            |       |     |
| 3   | (1889140)  | (14) MAGPI1531   | WFC3/UVIS, ACCUM, UVIS2-FIX   | F336W                       |                          | FLASH=18   |               | Pattern 1, Exps 3-3 in Visit 12 (1) | 431 Secs (1293 Secs)            |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 1)]                 |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 2)]                 |                            | [3]   |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 3)]                 |                            |       |     |
| 4   | (1889141)  | (14) MAGPI1531   | WFC3/UVIS, ACCUM, UVIS2-FIX   | F390W                       |                          | FLASH=16   |               | Pattern 2, Exps 4-4 in Visit 12 (2) | 365 Secs (730 Secs)             |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 1)]                 |                            |       |     |
|   |  |  |   |                             |                          |  |               |                                     | [=>(Pattern 2)]                 |                            | [3]   |     |



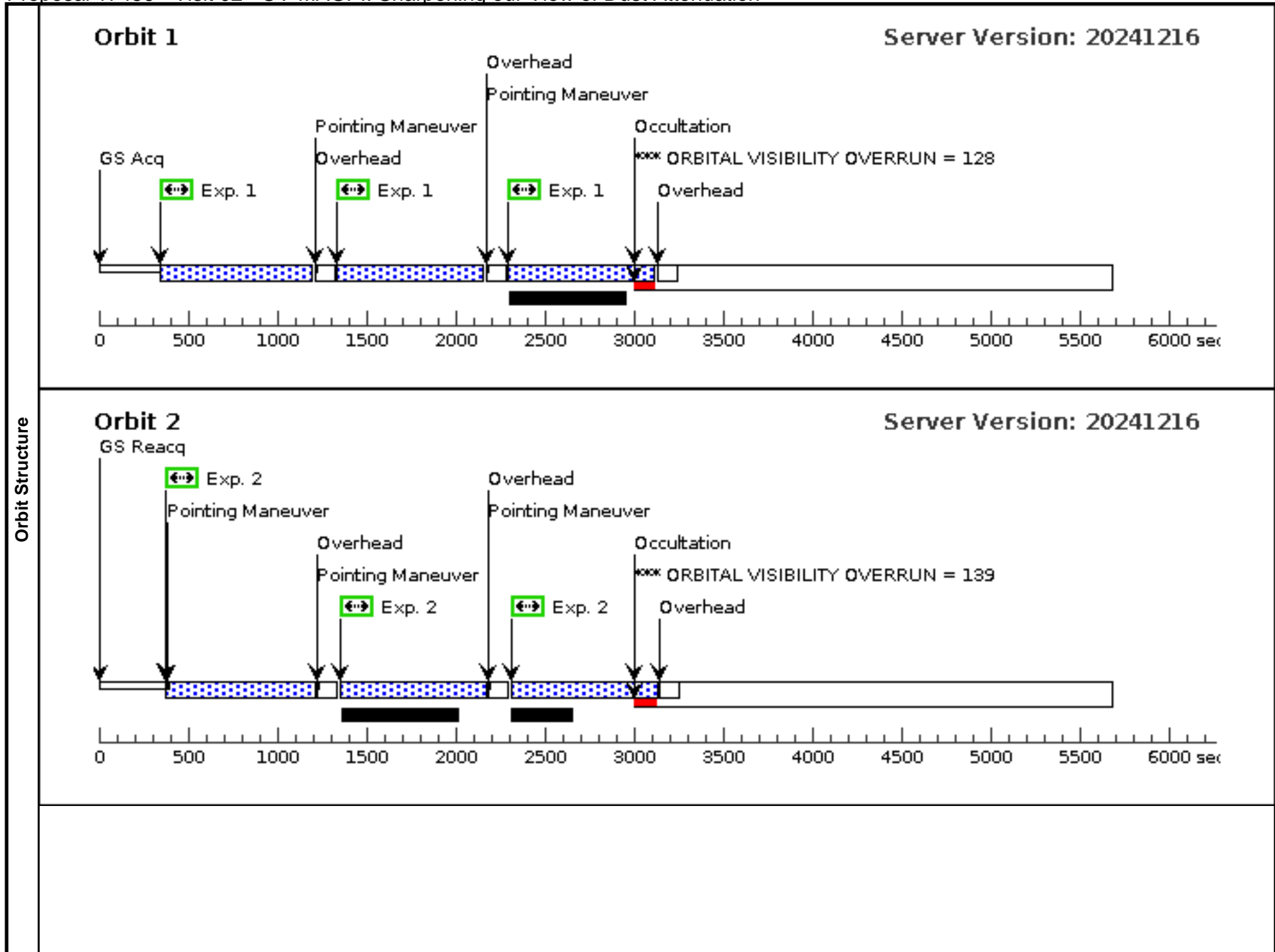
### Orbit 3

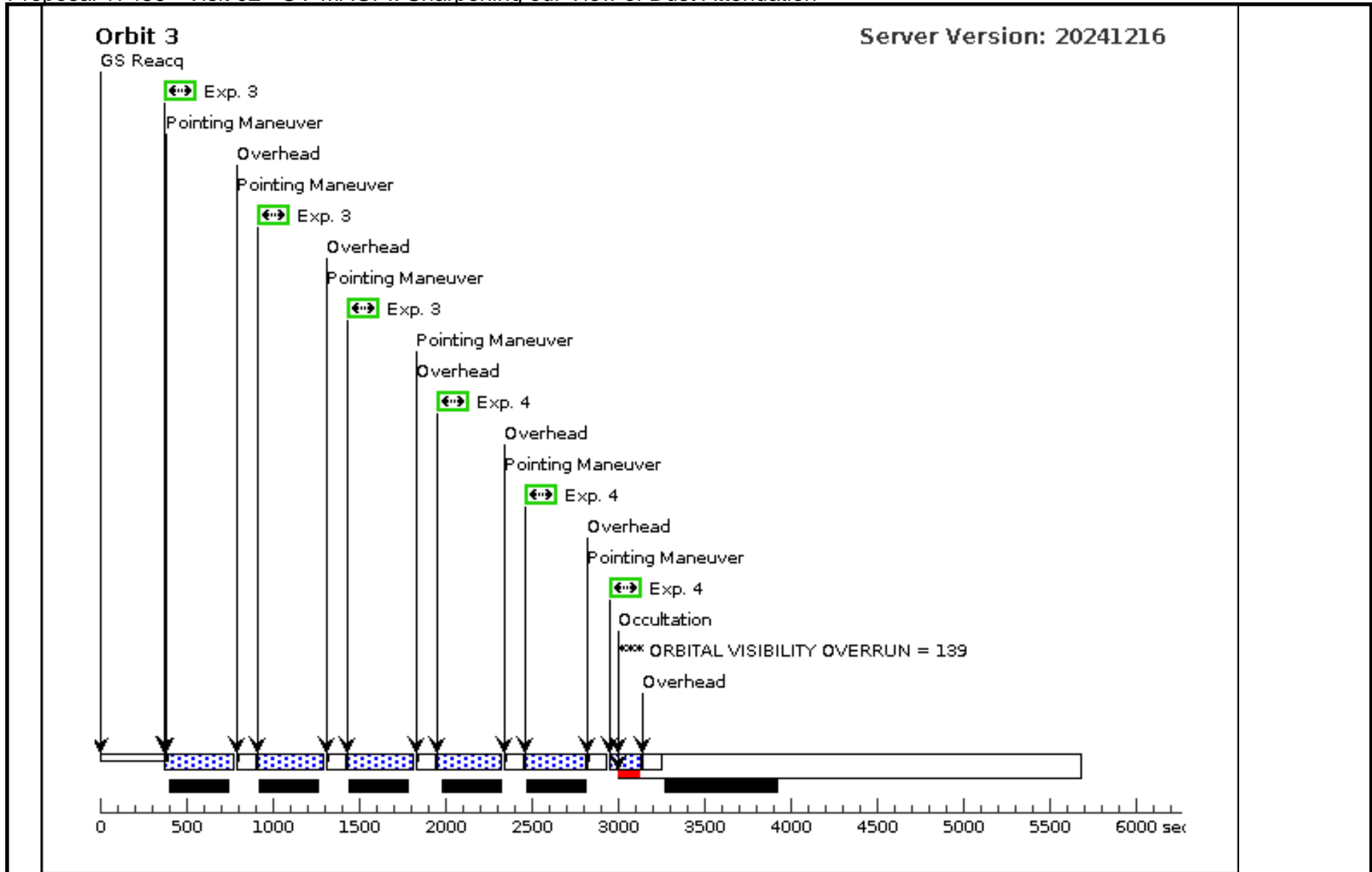


Proposal 17486 - Visit 02 - UV-MAGPI: Sharpening our View of Dust Attenuation

Wed Feb 19 16:00:26 GMT 2025

|                      |  |  |   |                                 |                          |                       |                                     |   |  |              |
|----------------------|--|--|---|---------------------------------|--------------------------|-----------------------|-------------------------------------|---|--|--------------|
| <b>Visit</b>         | <b>Proposal 17486, Visit 02, completed</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/UVIS<br>Special Requirements: (none)   |  |   |                                 |                          |                       |                                     |   |  |              |
|                      | (Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |  |   |                                 |                          |                       |                                     |   |  |              |
| <b>Diagnosics</b>    |  |  |   |                                 |                          |                       |                                     |   |  |              |
|                      |  |  |   |                                 |                          |                       |                                     |   |  |              |
| <b>Patterns</b>      | <b>#</b>   | <b>Primary Pattern</b>   |   |                                 | <b>Secondary Pattern</b> | <b>Exposures</b>      |                                     |   |  |              |
|                      | (1)  | Pattern Type=WFC3-UVIS-DITHER- Coordinate Frame=POS-TARG<br>LINE-3PT Pattern Orientation=46.84<br>Purpose=DITHER Angle Between Sides=<br>Number Of Points=3 Center Pattern=false<br>Point Spacing=0.135<br>Line Spacing= |   |                                 |                          | (1), (2), (3), (4)    |                                     |   |  |              |
| <b>Fixed Targets</b> | <b>#</b>   | <b>Name</b>  | <b>Target Coordinates</b>   | <b>Targ. Coord. Corrections</b> | <b>Fluxes</b>            | <b>Miscellaneous</b>  |                                     |   |  |              |
|                      | (2)  | MAGPI1502  | RA: 14 10 31.8480 (212.6327000d)<br>Dec: +02 33 39.60 (2.56100d)<br>Equinox: J2000<br><br><i>Comments:</i><br>Category=GALAXY<br>Description=[ELLIPTICAL, SPIRAL] |                                 | V=18                     | Reference Frame: ICRS |                                     |   |  |              |
| <b>Exposures</b>     | <b>#</b>   | <b>Label (ETC Run)</b>   | <b>Target</b>   | <b>Config,Mode,Aperture</b>     | <b>Spectral Els.</b>     | <b>Opt. Params.</b>   | <b>Special Reqs.</b>                | <b>Groups</b>   | <b>Exp. Time (Total)/[Actual Dur.]</b>                   | <b>Orbit</b> |
|                      | 1  | (1889136)  | (2) MAGPI1502   | WFC3/UVIS, ACCUM, UVIS2-FIX     | F225W                    | FLASH=17              |                                     | Pattern 1, Exps 1-1 in Visit 02 (1)                               | 823 Secs (2469 Secs)                                     |              |
|                      |  |  |   |                                 |                          |                       |                                     |   | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>(Pattern 3)] | [1]          |
|                      | 2  | (1889138)  | (2) MAGPI1502   | WFC3/UVIS, ACCUM, UVIS2-FIX     | F275W                    | FLASH=18              |                                     | Pattern 1, Exps 2-2 in Visit 02 (1)                               | 820 Secs (2460 Secs)                                     |              |
|                      |  |  |   |                                 |                          |                       |                                     |   | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>(Pattern 3)] | [2]          |
| 3                    | (1889140)  | (2) MAGPI1502  | WFC3/UVIS, ACCUM, UVIS2-FIX   | F336W                           | FLASH=19                 |                       | Pattern 1, Exps 3-3 in Visit 02 (1) | 383 Secs (1149 Secs)  |  |              |
|                      |  |  |   |                                 |                          |                       |                                     | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>(Pattern 3)]          | [3]  |              |
| 4                    | (1889141)  | (2) MAGPI1502  | WFC3/UVIS, ACCUM, UVIS2-FIX   | F390W                           | FLASH=17                 |                       | Pattern 1, Exps 4-4 in Visit 02 (1) | 348 Secs (872 Secs)   |  |              |
|                      |  |  |   |                                 |                          |                       |                                     | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>176 Secs (Pattern 3)] | [3]  |              |

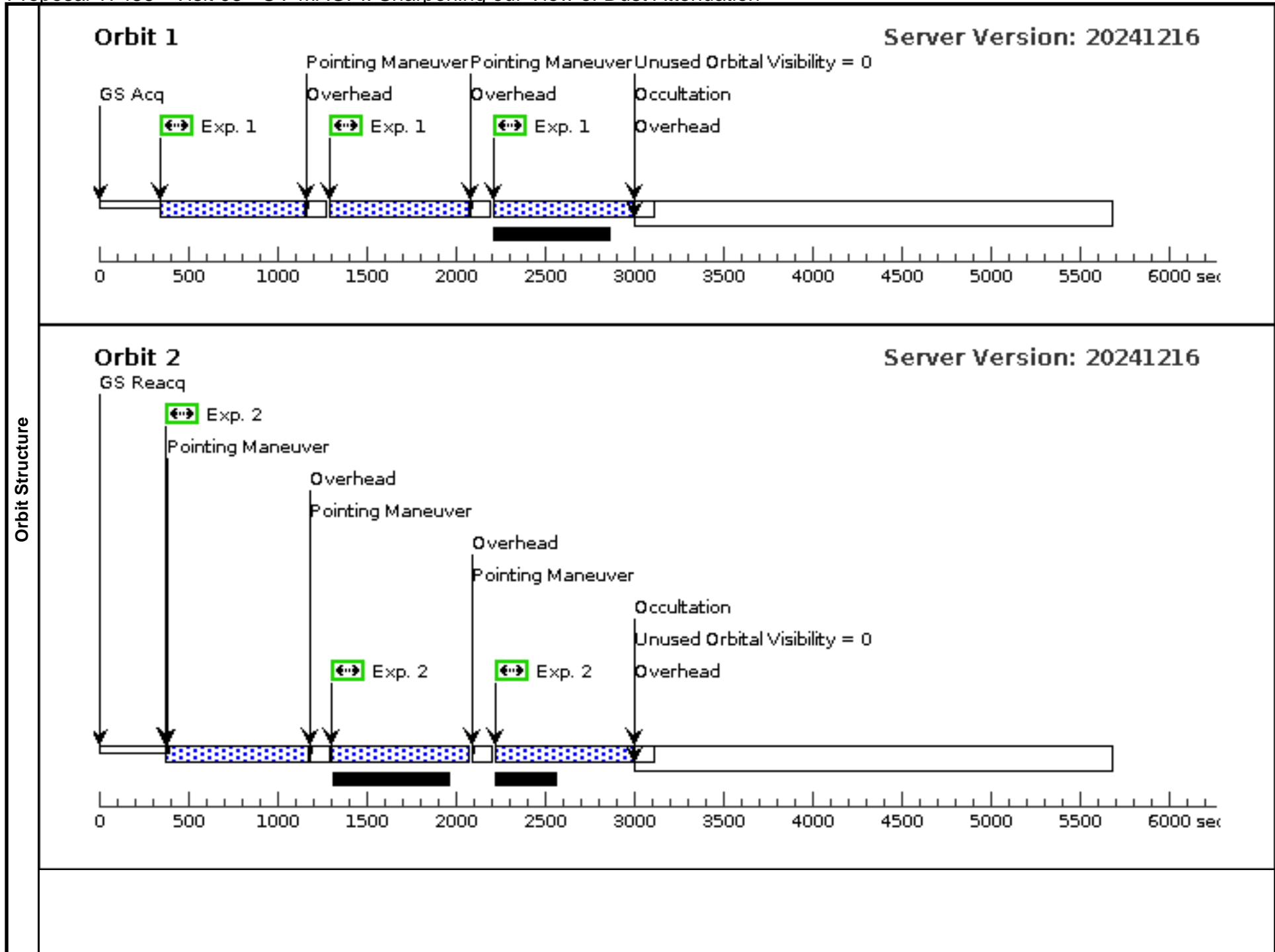




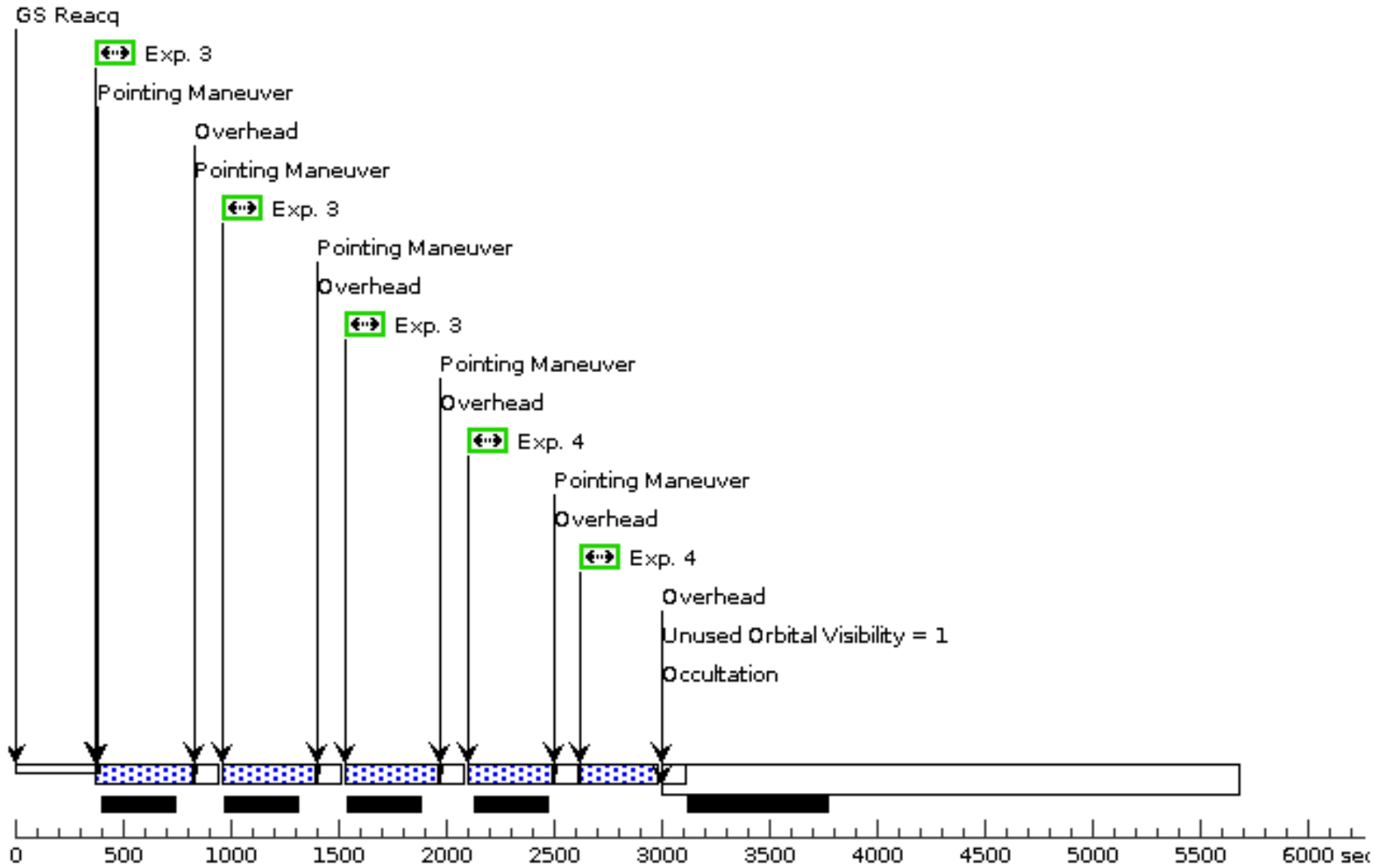
Proposal 17486 - Visit 03 - UV-MAGPI: Sharpening our View of Dust Attenuation

Wed Feb 19 16:00:26 GMT 2025

| Visit         | <b>Proposal 17486, Visit 03, scheduling</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/UVIS<br>Special Requirements: (none) |  |  |  |               |                       |                   |                                     |  |               |
|---------------|--|--|--|--|---------------|-----------------------|-------------------|-------------------------------------|--|---------------|
|               | Patterns   | #  | Primary Pattern  |  |               |                       | Secondary Pattern |                                     |  | Exposures     |
|               |  | (1)  | Pattern Type=WFC3-UVIS-DITHER-LINE-3PT<br>Purpose=DITHER<br>Number Of Points=3<br>Point Spacing=0.135<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false |               |                       |                   |                                     |  | (1), (2), (3) |
|               | (2)  | Pattern Type=WFC3-UVIS-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=0.145<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false                 |  |               |                       |                   |                                     | (4)  |               |
| Fixed Targets | #  | Name   | Target Coordinates   | Targ. Coord. Corrections   | Fluxes        | Miscellaneous         |                   |                                     |  |               |
|               | (3)  | MAGPI1506  | RA: 14 21 9.4560 (215.2894000d)<br>Dec: +01 37 24.60 (1.62350d)<br>Equinox: J2000                                      |  | V=18          | Reference Frame: ICRS |                   |                                     |  |               |
|               | <i>Comments:</i><br>Category=GALAXY<br>Description=[ELLIPTICAL, SPIRAL]  |  |  |  |               |                       |                   |                                     |  |               |
| Exposures     | #  | Label (ETC Run)  | Target   | Config,Mode,Aperture   | Spectral Els. | Opt. Params.          | Special Reqs.     | Groups                              | Exp. Time (Total)/[Actual Dur.]  | Orbit         |
|               | 1  | (1889136)  | (3) MAGPI1506  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F225W         | FLASH=17              |                   | Pattern 1, Exps 1-1 in Visit 03 (1) | 780 Secs (2341 Secs)<br>[=>(Pattern 1)]<br>[=>(Pattern 2)]<br>[=>781.0 Secs (Pattern 3)] | [1]           |
|               | 2  | (1889138)  | (3) MAGPI1506  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F275W         | FLASH=18              |                   | Pattern 1, Exps 2-2 in Visit 03 (1) | 774 Secs (2321 Secs)<br>[=>(Pattern 1)]<br>[=>(Pattern 2)]<br>[=>773.0 Secs (Pattern 3)] | [2]           |
|               | 3  | (1889140)  | (3) MAGPI1506  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F336W         | FLASH=18              |                   | Pattern 1, Exps 3-3 in Visit 03 (1) | 431 Secs (1292 Secs)<br>[=>(Pattern 1)]<br>[=>(Pattern 2)]<br>[=>430 Secs (Pattern 3)]   | [3]           |
|               | 4  | (1889141)  | (3) MAGPI1506  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F390W         | FLASH=16              |                   | Pattern 2, Exps 4-4 in Visit 03 (2) | 365 Secs (730 Secs)<br>[=>(Pattern 1)]<br>[=>(Pattern 2)]                                | [3]           |



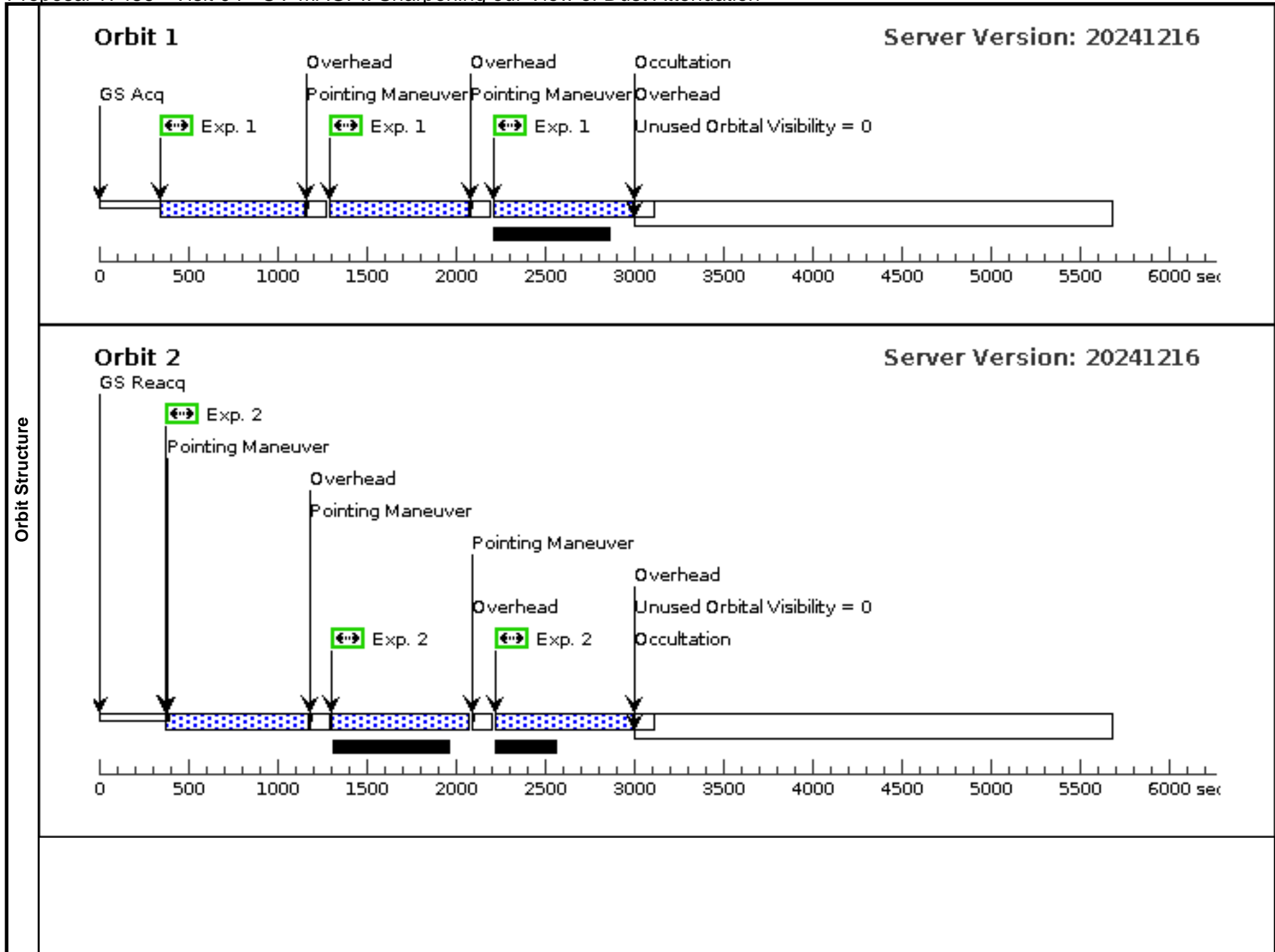
**Orbit 3**



Proposal 17486 - Visit 04 - UV-MAGPI: Sharpening our View of Dust Attenuation

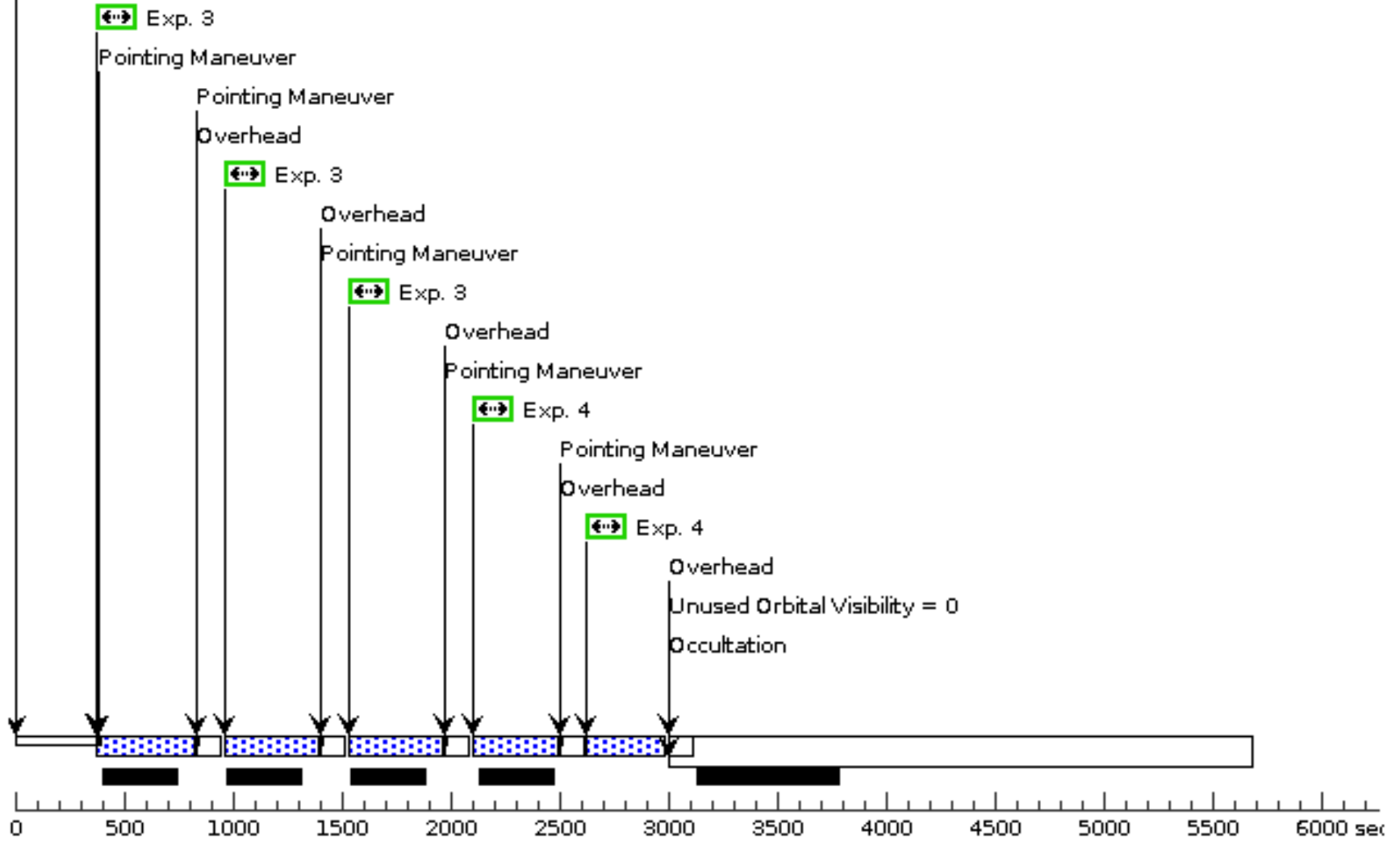
Wed Feb 19 16:00:26 GMT 2025

| Visit         | <b>Proposal 17486, Visit 04, completed</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/UVIS<br>Special Requirements: (none) |  |  |  |                          |              |                                     |  |   |               |       |
|---------------|---|--|--|--|--------------------------|--------------|-------------------------------------|--|---|---------------|-------|
|               | Patterns  | #  | Primary Pattern  |  |                          |              | Secondary Pattern                   |  |   | Exposures     |       |
|               |   | (1)  | Pattern Type=WFC3-UVIS-DITHER-LINE-3PT<br>Purpose=DITHER<br>Number Of Points=3<br>Point Spacing=0.135<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false |                          |              |                                     |  |   | (1), (2), (3) |       |
|               | (2)   | Pattern Type=WFC3-UVIS-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=0.145<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false                 |  |                          |              |                                     |  | (4)   |               |       |
| Fixed Targets | #   | Name   | Target Coordinates   |  | Targ. Coord. Corrections | Fluxes       |                                     | Miscellaneous  |   |               |       |
|               | (4)   | MAGPI1507  | RA: 14 22 28.9440 (215.6206000d)<br>Dec: +00 24 27.00 (.40750d)<br>Equinox: J2000                                      |  |                          | V=18         |                                     | Reference Frame: ICRS                                    |   |               |       |
|               | <i>Comments:</i><br>Category=GALAXY<br>Description=[ELLIPTICAL, SPIRAL ARM]   |  |  |  |                          |              |                                     |  |   |               |       |
| Exposures     | #   | Label (ETC Run)  | Target   | Config,Mode,Aperture   | Spectral Els.            | Opt. Params. | Special Reqs.                       | Groups   | Exp. Time (Total)/[Actual Dur.]                                   |               | Orbit |
|               | 1   | (1889136)  | (4) MAGPI1507  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F225W                    | FLASH=17     |                                     | Pattern 1, Exps 1-1 in Visit 04 (1)                      | 780 Secs (2341 Secs)  |               |       |
|               |   |  |  |  |                          |              |                                     |  | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>781 Secs (Pattern 3)] |               | [1]   |
|               | 2   | (1889138)  | (4) MAGPI1507  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F275W                    | FLASH=18     |                                     | Pattern 1, Exps 2-2 in Visit 04 (1)                      | 774 Secs (2321 Secs)  |               |       |
|               |   |  |  |  |                          |              |                                     |  | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>773 Secs (Pattern 3)] |               | [2]   |
| 3             | (1889140)   | (4) MAGPI1507  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F336W  | FLASH=18                 |              | Pattern 1, Exps 3-3 in Visit 04 (1) | 431 Secs (1293 Secs)                                     |   |               |       |
|               |   |  |  |  |                          |              |                                     | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>(Pattern 3)] |   | [3]           |       |
| 4             | (1889141)   | (4) MAGPI1507  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F390W  | FLASH=16                 |              | Pattern 2, Exps 4-4 in Visit 04 (2) | 365 Secs (730 Secs)                                      |   |               |       |
|               |   |  |  |  |                          |              |                                     | [==>(Pattern 1)]<br>[==>(Pattern 2)]                     |   | [3]           |       |



**Orbit 3**

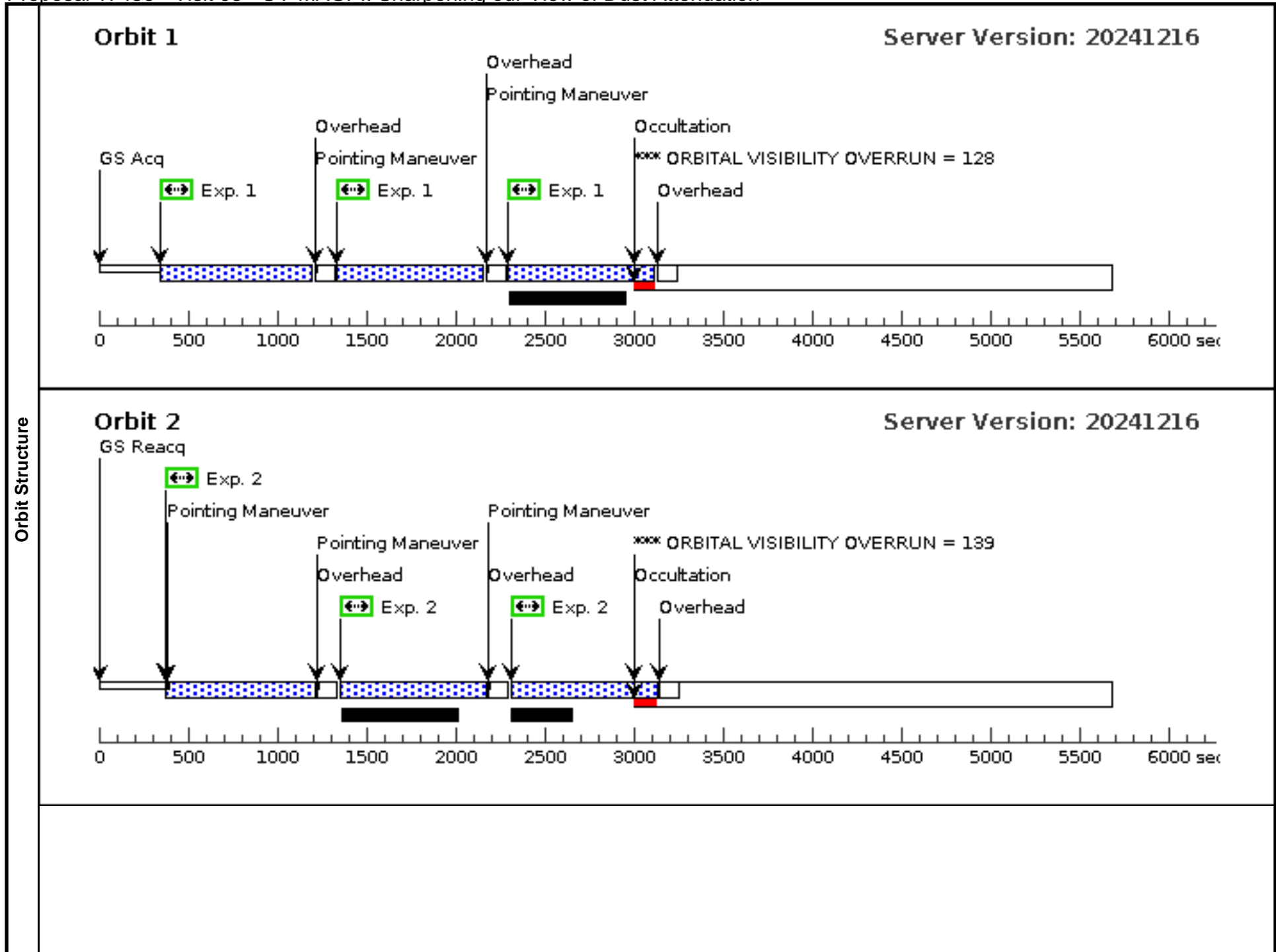
GS Reacq

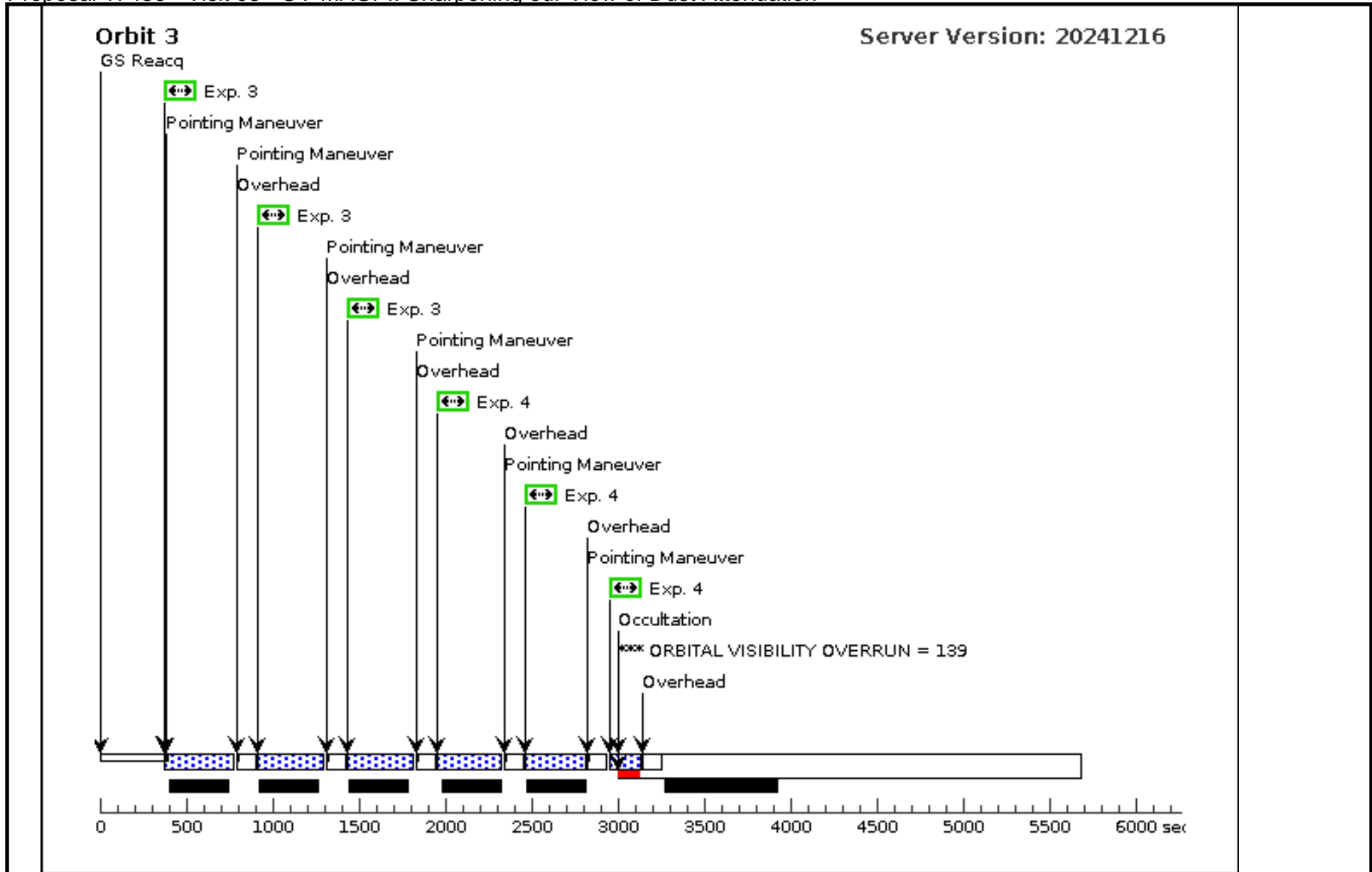


Proposal 17486 - Visit 05 - UV-MAGPI: Sharpening our View of Dust Attenuation

Wed Feb 19 16:00:26 GMT 2025

|                      |  |  |  |                             |                             |                       |               |   |  |                      |  |
|----------------------|--|--|--|-----------------------------|-----------------------------|-----------------------|---------------|---|--|----------------------|--|
| <b>Visit</b>         | <b>Proposal 17486, Visit 05, completed</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/UVIS<br>Special Requirements: (none)   |  |  |                             |                             |                       |               |   |  |                      |  |
| <b>Diagnostics</b>   | (Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |  |  |                             |                             |                       |               |   |  |                      |  |
| <b>Patterns</b>      | #  | Primary Pattern  |  | Secondary Pattern           |                             | Exposures             |               |   |  |                      |  |
|                      | (1)  | Pattern Type=WFC3-UVIS-DITHER-<br>LINE-3PT<br>Purpose=DITHER<br>Number Of Points=3<br>Point Spacing=0.135<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false |                             |                             | (1), (2), (3), (4)    |               |   |  |                      |  |
| <b>Fixed Targets</b> | #  | Name   | Target Coordinates   | Targ. Coord. Corrections    | Fluxes                      | Miscellaneous         |               |   |  |                      |  |
|                      | (5)  | MAGPI1508  | RA: 14 23 32.0640 (215.8836000d)<br>Dec: +02 42 50.40 (2.71400d)<br>Equinox: J2000                     |                             | V=18                        | Reference Frame: ICRS |               |   |  |                      |  |
|                      | <i>Comments:</i><br>Category=GALAXY<br>Description=[ELLIPTICAL, SPIRAL]  |  |  |                             |                             |                       |               |   |  |                      |  |
| <b>Exposures</b>     | #  | Label (ETC Run)  | Target   | Config,Mode,Aperture        | Spectral Els.               | Opt. Params.          | Special Reqs. | Groups  | Exp. Time (Total)/[Actual Dur.]                          | Orbit                |  |
|                      |  | 1  | (1889136)  | (5) MAGPI1508               | WFC3/UVIS, ACCUM, UVIS2-FIX | F225W                 | FLASH=17      |   | Pattern 1, Exps 1-1 in Visit 05 (1)                      | 823 Secs (2469 Secs) |  |
|                      |  |  |  |                             |                             |                       |               |   | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>(Pattern 3)] | [1]                  |  |
|                      |  | 2  | (1889138)  | (5) MAGPI1508               | WFC3/UVIS, ACCUM, UVIS2-FIX | F275W                 | FLASH=18      |   | Pattern 1, Exps 2-2 in Visit 05 (1)                      | 820 Secs (2460 Secs) |  |
|                      |  |  |  |                             |                             |                       |               |   | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>(Pattern 3)] | [2]                  |  |
|                      | 3  | (1889140)  | (5) MAGPI1508  | WFC3/UVIS, ACCUM, UVIS2-FIX | F336W                       | FLASH=19              |               | Pattern 1, Exps 3-3 in Visit 05 (1)                               | 383 Secs (1149 Secs)                                     |                      |  |
|                      |  |  |  |                             |                             |                       |               | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>(Pattern 3)]          | [3]  |                      |  |
|                      | 4  | (1889141)  | (5) MAGPI1508  | WFC3/UVIS, ACCUM, UVIS2-FIX | F390W                       | FLASH=17              |               | Pattern 1, Exps 4-4 in Visit 05 (1)                               | 348 Secs (872 Secs)                                      |                      |  |
|                      |  |  |  |                             |                             |                       |               | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>176 Secs (Pattern 3)] | [3]  |                      |  |

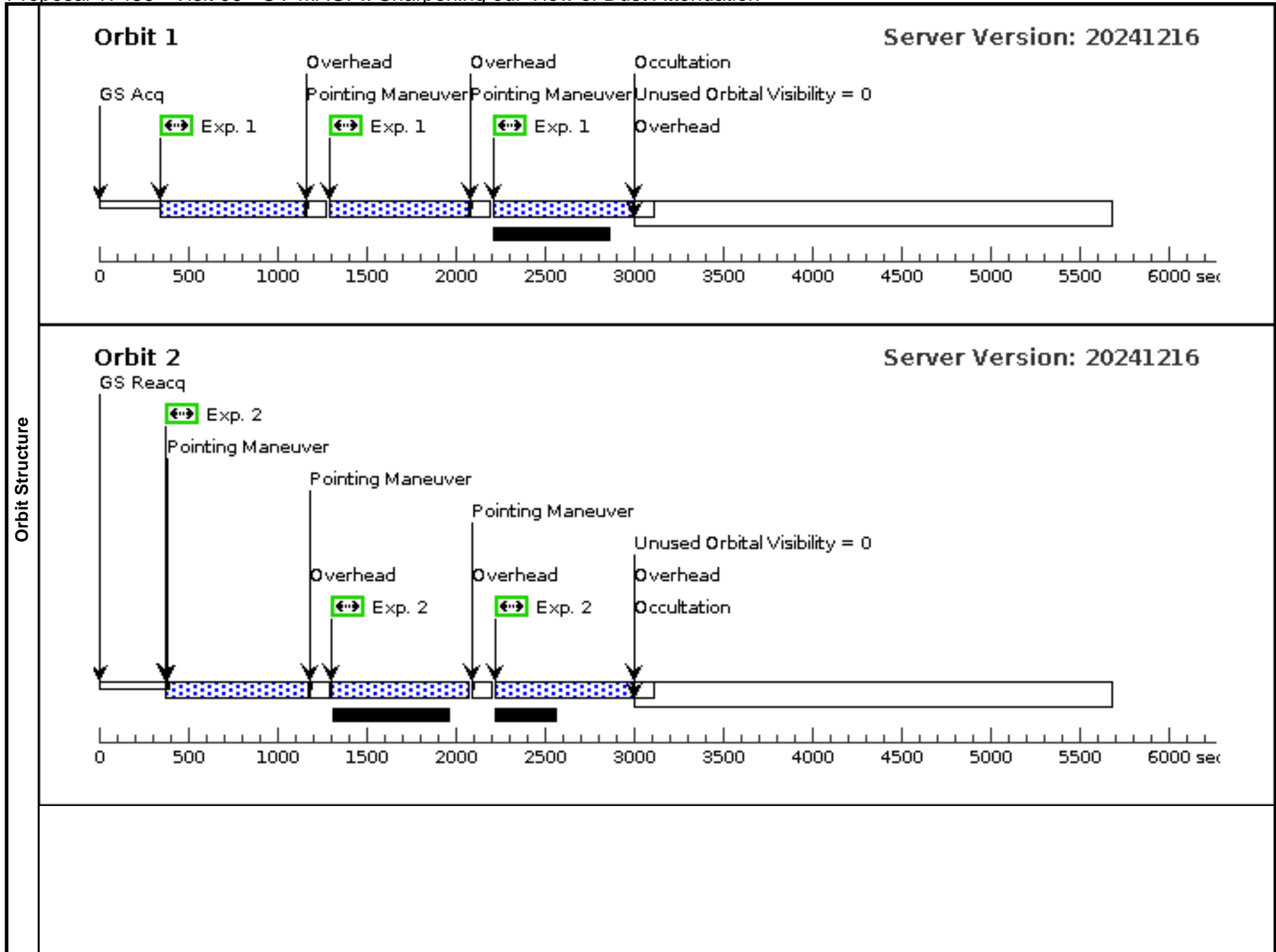




Proposal 17486 - Visit 06 - UV-MAGPI: Sharpening our View of Dust Attenuation

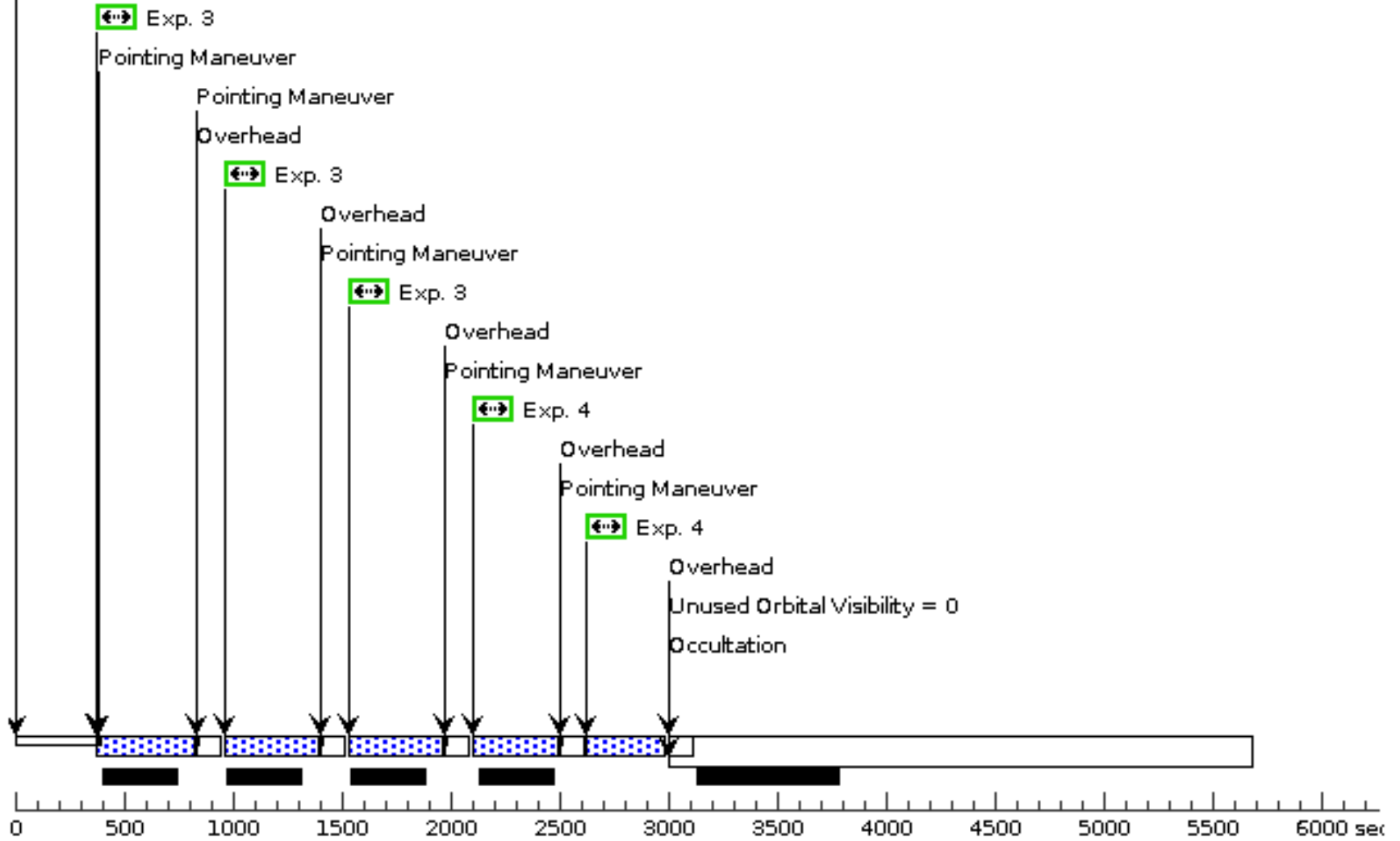
Wed Feb 19 16:00:26 GMT 2025

| Visit         | <b>Proposal 17486, Visit 06, completed</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/UVIS<br>Special Requirements: (none) |  |  |  |                          |              |                   |                                     |                                 |  |       |
|---------------|---|--|--|--|--------------------------|--------------|-------------------|-------------------------------------|---------------------------------|--|-------|
|               | Patterns  | #  | Primary Pattern  |  |                          |              | Secondary Pattern |                                     |                                 | Exposures  |       |
|               |   | (1)  | Pattern Type=WFC3-UVIS-DITHER-LINE-3PT<br>Purpose=DITHER<br>Number Of Points=3<br>Point Spacing=0.135<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false |                          |              |                   |                                     |                                 | (1), (2), (3)  |       |
|               | (2)   | Pattern Type=WFC3-UVIS-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=0.145<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false                 |  |                          |              |                   |                                     | (4)                             |  |       |
| Fixed Targets | #   | Name   | Target Coordinates   |  | Targ. Coord. Corrections |              | Fluxes            |                                     | Miscellaneous                   |  |       |
|               | (6)   | MAGPI1530  | RA: 14 48 34.5120 (222.1438000d)<br>Dec: +02 56 28.68 (2.94130d)<br>Equinox: J2000                                     |  |                          |              | V=18              |                                     | Reference Frame: ICRS           |  |       |
|               | <i>Comments:</i><br>Category=GALAXY<br>Description=[ELLIPTICAL, SPIRAL]   |  |  |  |                          |              |                   |                                     |                                 |  |       |
| Exposures     | #   | Label (ETC Run)  | Target   | Config,Mode,Aperture   | Spectral Els.            | Opt. Params. | Special Reqs.     | Groups                              | Exp. Time (Total)/[Actual Dur.] |  | Orbit |
|               | 1   | (1889136)  | (6) MAGPI1530  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F225W                    | FLASH=17     |                   | Pattern 1, Exps 1-1 in Visit 06 (1) | 780 Secs (2341 Secs)            | [=>(Pattern 1)]<br>[=>(Pattern 2)]<br>[=>781 Secs (Pattern 3)] | [1]   |
|               | 2   | (1889138)  | (6) MAGPI1530  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F275W                    | FLASH=18     |                   | Pattern 1, Exps 2-2 in Visit 06 (1) | 774 Secs (2321 Secs)            | [=>(Pattern 1)]<br>[=>(Pattern 2)]<br>[=>773 Secs (Pattern 3)] | [2]   |
|               | 3   | (1889140)  | (6) MAGPI1530  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F336W                    | FLASH=18     |                   | Pattern 1, Exps 3-3 in Visit 06 (1) | 431 Secs (1293 Secs)            | [=>(Pattern 1)]<br>[=>(Pattern 2)]<br>[=>(Pattern 3)]          | [3]   |
|               | 4   | (1889141)  | (6) MAGPI1530  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F390W                    | FLASH=16     |                   | Pattern 2, Exps 4-4 in Visit 06 (2) | 365 Secs (730 Secs)             | [=>(Pattern 1)]<br>[=>(Pattern 2)]                             | [3]   |



**Orbit 3**

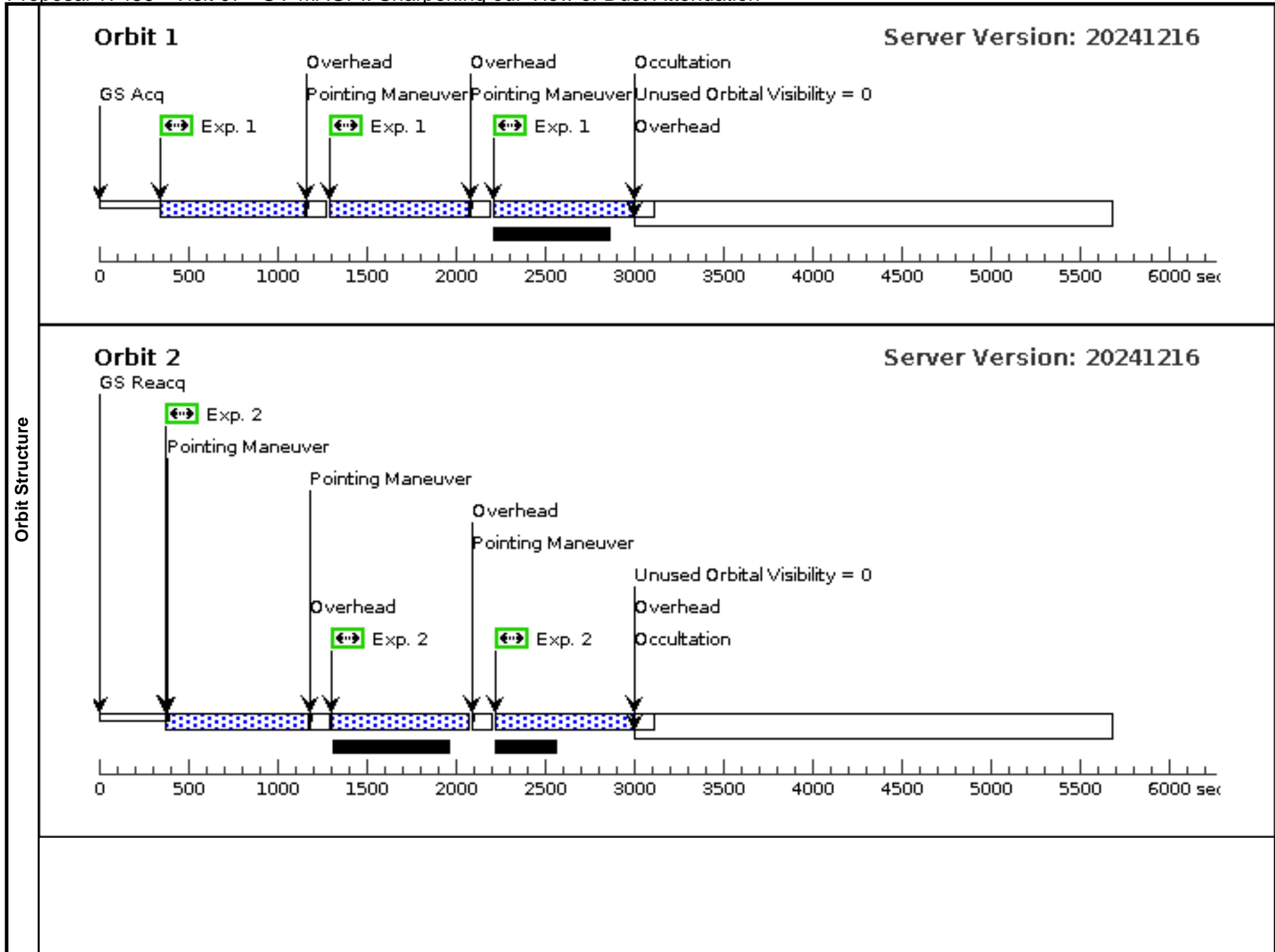
GS Reacq



Proposal 17486 - Visit 07 - UV-MAGPI: Sharpening our View of Dust Attenuation

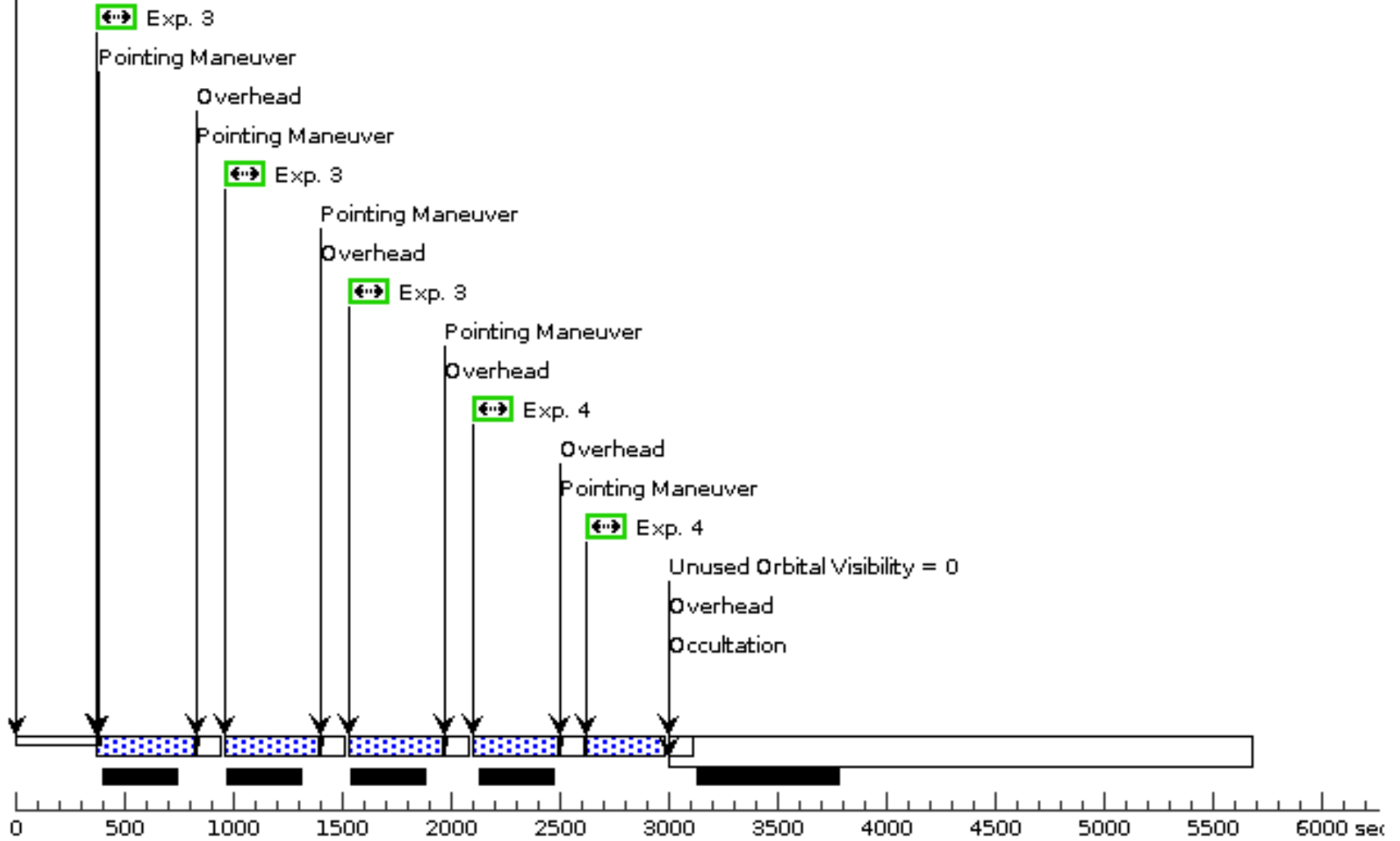
Wed Feb 19 16:00:26 GMT 2025

| Visit         | <b>Proposal 17486, Visit 07, completed</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/UVIS<br>Special Requirements: (none) |  |  |  |                          |              |                                     |                                     |                                 |               |       |
|---------------|---|--|--|--|--------------------------|--------------|-------------------------------------|-------------------------------------|---------------------------------|---------------|-------|
|               | Patterns  | #  | Primary Pattern  |  |                          |              | Secondary Pattern                   |                                     |                                 | Exposures     |       |
|               |   | (1)  | Pattern Type=WFC3-UVIS-DITHER-LINE-3PT<br>Purpose=DITHER<br>Number Of Points=3<br>Point Spacing=0.135<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false |                          |              |                                     |                                     |                                 | (1), (2), (3) |       |
|               | (2)   | Pattern Type=WFC3-UVIS-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=0.145<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false                 |  |                          |              |                                     |                                     | (4)                             |               |       |
| Fixed Targets | #   | Name   | Target Coordinates   |  | Targ. Coord. Corrections |              | Fluxes                              |                                     | Miscellaneous                   |               |       |
|               | (7)   | MAGPI1534  | RA: 14 52 21.5760 (223.0899000d)<br>Dec: -00 58 19.92 (-.97220d)<br>Equinox: J2000                                     |  |                          |              | V=18                                |                                     | Reference Frame: ICRS           |               |       |
|               | <i>Comments:</i><br>Category=GALAXY<br>Description=[ELLIPTICAL, SPIRAL]   |  |  |  |                          |              |                                     |                                     |                                 |               |       |
| Exposures     | #   | Label (ETC Run)  | Target   | Config,Mode,Aperture   | Spectral Els.            | Opt. Params. | Special Reqs.                       | Groups                              | Exp. Time (Total)/[Actual Dur.] |               | Orbit |
|               | 1   | (1889136)  | (7) MAGPI1534  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F225W                    | FLASH=17     |                                     | Pattern 1, Exps 1-1 in Visit 07 (1) | 780 Secs (2341 Secs)            |               |       |
|               |   |  |  |  |                          |              |                                     |                                     | [==>(Pattern 1)]                |               | [1]   |
|               |   |  |  |  |                          |              |                                     |                                     | [==>(Pattern 2)]                |               |       |
|               |   |  |  |  |                          |              |                                     |                                     | [==>781 Secs (Pattern 3)]       |               |       |
| 2             | (1889138)   | (7) MAGPI1534  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F275W  | FLASH=18                 |              | Pattern 1, Exps 2-2 in Visit 07 (1) | 774 Secs (2321 Secs)                |                                 |               |       |
|               |   |  |  |  |                          |              |                                     | [==>(Pattern 1)]                    |                                 | [2]           |       |
|               |   |  |  |  |                          |              |                                     | [==>(Pattern 2)]                    |                                 |               |       |
|               |   |  |  |  |                          |              |                                     | [==>773.0 Secs (Pattern 3)]         |                                 |               |       |
| 3             | (1889140)   | (7) MAGPI1534  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F336W  | FLASH=18                 |              | Pattern 1, Exps 3-3 in Visit 07 (1) | 431 Secs (1293 Secs)                |                                 |               |       |
|               |   |  |  |  |                          |              |                                     | [==>(Pattern 1)]                    |                                 | [3]           |       |
|               |   |  |  |  |                          |              |                                     | [==>(Pattern 2)]                    |                                 |               |       |
|               |   |  |  |  |                          |              |                                     | [==>(Pattern 3)]                    |                                 |               |       |
| 4             | (1889141)   | (7) MAGPI1534  | WFC3/UVIS, ACCUM, UVIS2-FIX  | F390W  | FLASH=16                 |              | Pattern 2, Exps 4-4 in Visit 07 (2) | 365 Secs (730 Secs)                 |                                 |               |       |
|               |   |  |  |  |                          |              |                                     | [==>(Pattern 1)]                    |                                 | [3]           |       |
|               |   |  |  |  |                          |              |                                     | [==>(Pattern 2)]                    |                                 |               |       |



**Orbit 3**

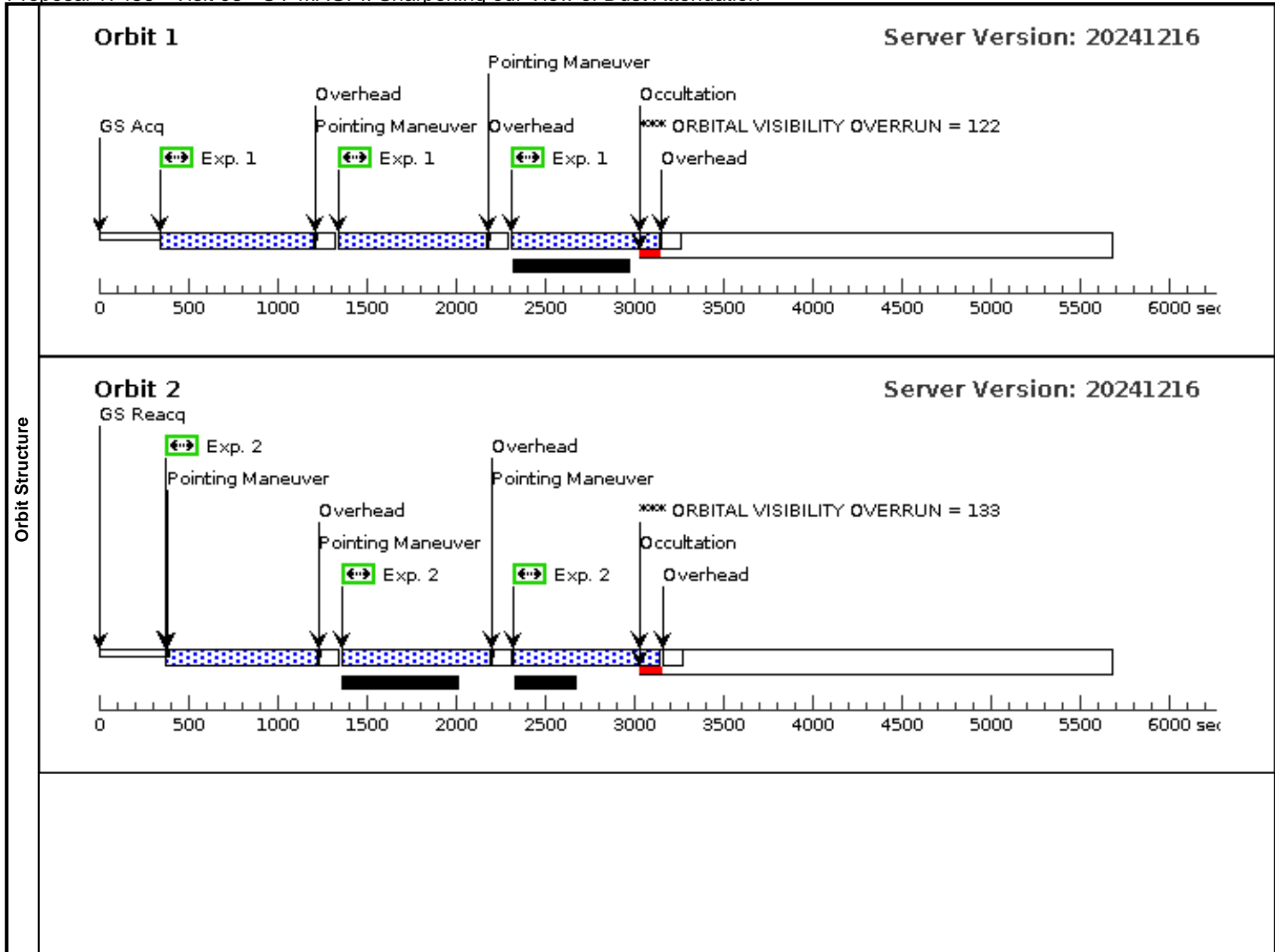
GS Reacq

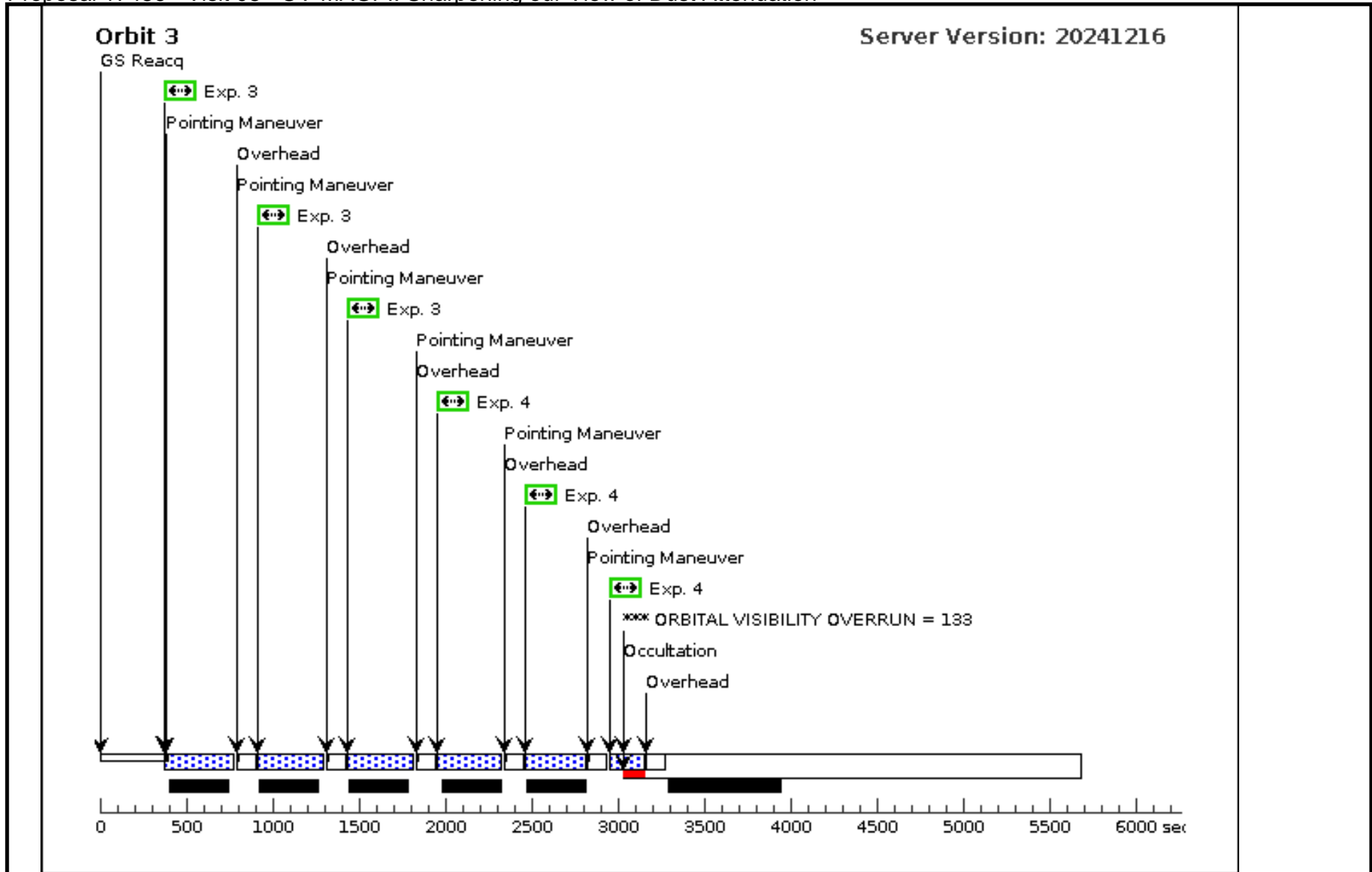


Proposal 17486 - Visit 08 - UV-MAGPI: Sharpening our View of Dust Attenuation

Wed Feb 19 16:00:26 GMT 2025

|                      |  |  |   |                                 |                      |                       |                                     |   |   |              |
|----------------------|--|--|---|---------------------------------|----------------------|-----------------------|-------------------------------------|---|---|--------------|
| <b>Visit</b>         | <b>Proposal 17486, Visit 08, completed</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/UVIS<br>Special Requirements: (none)   |  |   |                                 |                      |                       |                                     |   |   |              |
|                      | (Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |  |   |                                 |                      |                       |                                     |   |   |              |
| <b>Diagnosics</b>    |  |  |   |                                 |                      |                       |                                     |   |   |              |
|                      |  |  |   |                                 |                      |                       |                                     |   |   |              |
| <b>Patterns</b>      | <b>#</b>   | <b>Primary Pattern</b>   | <b>Secondary Pattern</b>  | <b>Exposures</b>                |                      |                       |                                     |   |   |              |
|                      | (1)  | Pattern Type=WFC3-UVIS-DITHER-<br>LINE-3PT<br>Purpose=DITHER<br>Number Of Points=3<br>Point Spacing=0.135<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false  | (1), (2), (3), (4)              |                      |                       |                                     |   |   |              |
| <b>Fixed Targets</b> | <b>#</b>   | <b>Name</b>  | <b>Target Coordinates</b>   | <b>Targ. Coord. Corrections</b> | <b>Fluxes</b>        | <b>Miscellaneous</b>  |                                     |   |   |              |
|                      | (8)  | MAGPI2301  | RA: 22 37 57.8640 (339.4911000d)<br>Dec: -31 51 18.00 (-31.85500d)<br>Equinox: J2000<br><br><i>Comments:</i><br>Category=GALAXY<br>Description=[ELLIPTICAL, SPIRAL] |                                 | V=18                 | Reference Frame: ICRS |                                     |   |   |              |
| <b>Exposures</b>     | <b>#</b>   | <b>Label (ETC Run)</b>   | <b>Target</b>   | <b>Config,Mode,Aperture</b>     | <b>Spectral Els.</b> | <b>Opt. Params.</b>   | <b>Special Reqs.</b>                | <b>Groups</b>   | <b>Exp. Time (Total)/[Actual Dur.]</b>                              | <b>Orbit</b> |
|                      | 1  | (1889136)  | (8) MAGPI2301   | WFC3/UVIS, ACCUM, UVIS2-FIX     | F225W                | FLASH=17              |                                     | Pattern 1, Exps 1-1 in Visit 08 (1)                               | 831 Secs (2492 Secs)  |              |
|                      |  |  |   |                                 |                      |                       |                                     |   | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>830.0 Secs (Pattern 3)] | [1]          |
|                      | 2  | (1889138)  | (8) MAGPI2301   | WFC3/UVIS, ACCUM, UVIS2-FIX     | F275W                | FLASH=18              |                                     | Pattern 1, Exps 2-2 in Visit 08 (1)                               | 828 Secs (2483 Secs)  |              |
|                      |  |  |   |                                 |                      |                       |                                     |   | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>827.0 Secs (Pattern 3)] | [2]          |
| 3                    | (1889140)  | (8) MAGPI2301  | WFC3/UVIS, ACCUM, UVIS2-FIX   | F336W                           | FLASH=19             |                       | Pattern 1, Exps 3-3 in Visit 08 (1) | 383 Secs (1149 Secs)  |   |              |
|                      |  |  |   |                                 |                      |                       |                                     | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>(Pattern 3)]          | [3]   |              |
| 4                    | (1889141)  | (8) MAGPI2301  | WFC3/UVIS, ACCUM, UVIS2-FIX   | F390W                           | FLASH=17             |                       | Pattern 1, Exps 4-4 in Visit 08 (1) | 348 Secs (895 Secs)   |   |              |
|                      |  |  |   |                                 |                      |                       |                                     | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>199 Secs (Pattern 3)] | [3]   |              |

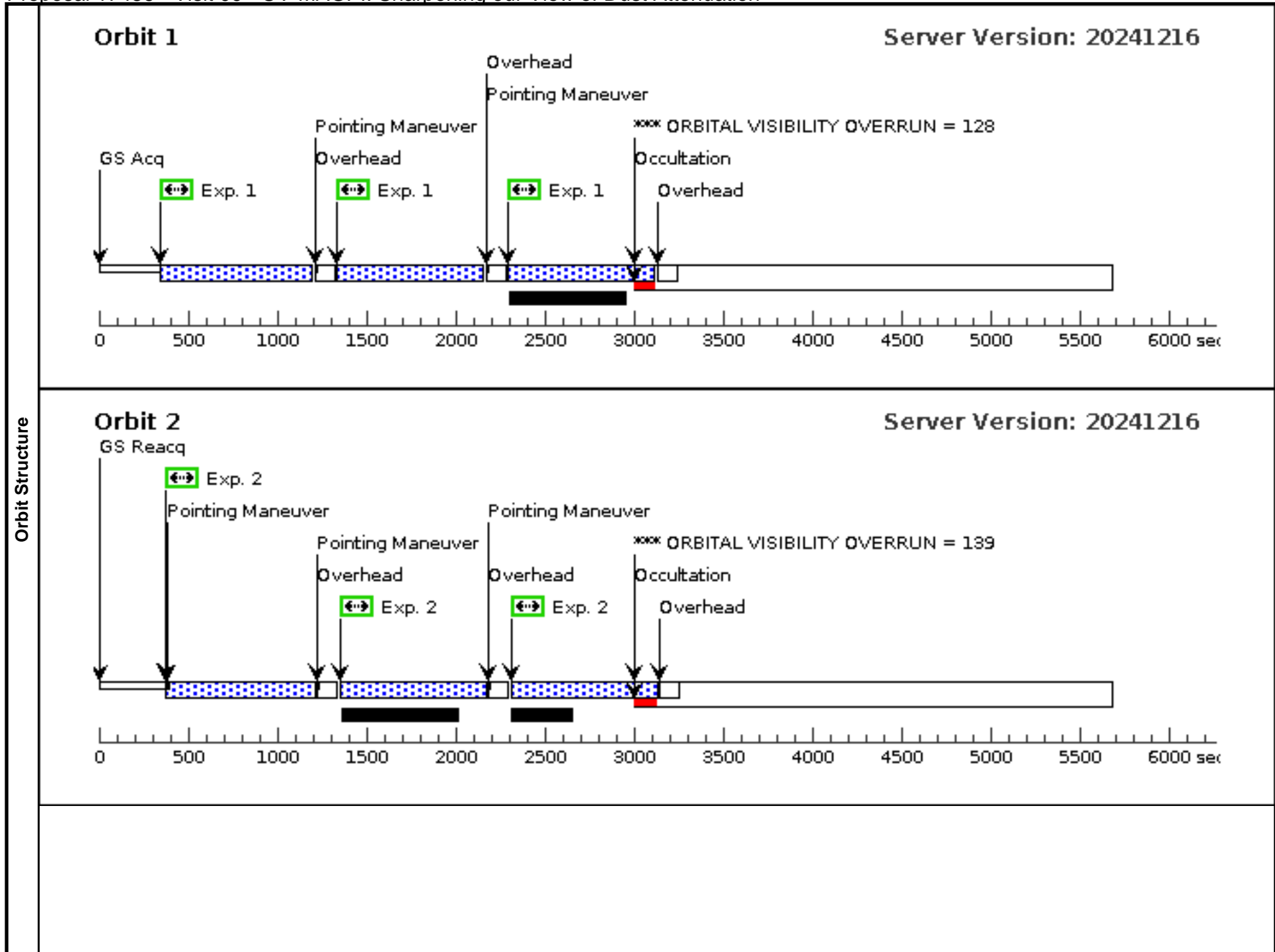


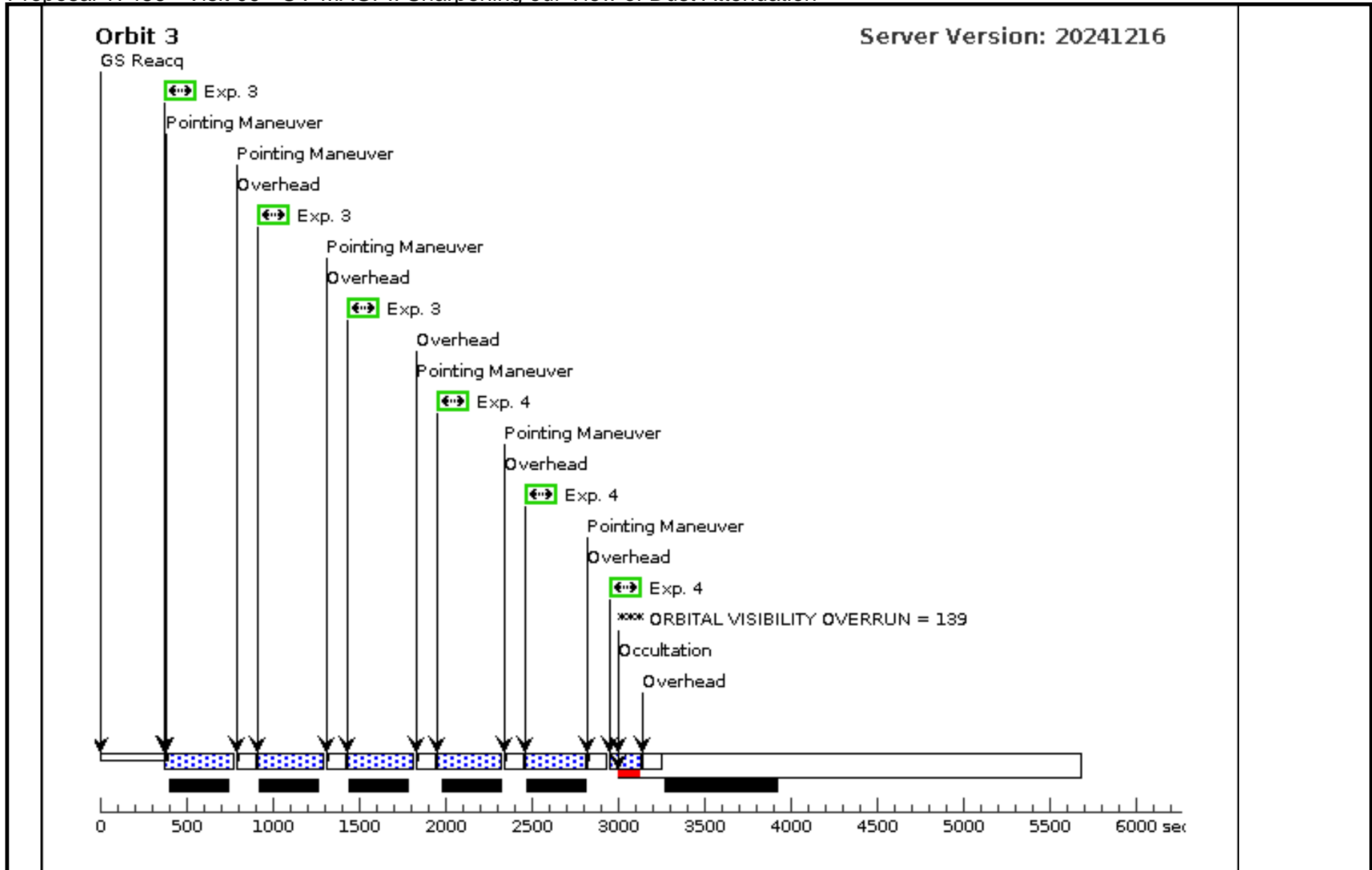


Proposal 17486 - Visit 09 - UV-MAGPI: Sharpening our View of Dust Attenuation

Wed Feb 19 16:00:26 GMT 2025

|   |  |  |  |                                 |  |                       |                                     |                                     |  |              |
|---|--|--|--|---------------------------------|--|-----------------------|-------------------------------------|-------------------------------------|--|--------------|
| <b>Visit</b>  | <b>Proposal 17486, Visit 09, completed</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/UVIS<br>Special Requirements: (none)   |  |  |                                 |  |                       |                                     |                                     |  |              |
|   | (Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |  |  |                                 |  |                       |                                     |                                     |  |              |
| <b>Diagnosics</b>   |  |  |  |                                 |  |                       |                                     |                                     |  |              |
|   |  |  |  |                                 |  |                       |                                     |                                     |  |              |
| <b>Patterns</b>   | <b>#</b>   | <b>Primary Pattern</b>   |  |                                 | <b>Secondary Pattern</b>   | <b>Exposures</b>      |                                     |                                     |  |              |
|   | (1)  | Pattern Type=WFC3-UVIS-DITHER-<br>LINE-3PT<br>Purpose=DITHER<br>Number Of Points=3<br>Point Spacing=0.135<br>Line Spacing= |  |                                 | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false | (1), (2), (3), (4)    |                                     |                                     |  |              |
| <b>Fixed Targets</b>  | <b>#</b>   | <b>Name</b>  | <b>Target Coordinates</b>  | <b>Targ. Coord. Corrections</b> | <b>Fluxes</b>  | <b>Miscellaneous</b>  |                                     |                                     |  |              |
|   | (13)   | MAGPI1206  | RA: 12 00 38.9000 (180.1620833d)<br>Dec: -01 27 7.10 (-1.45197d)<br>Equinox: J2000 |                                 | V=18   | Reference Frame: ICRS |                                     |                                     |  |              |
| Comments:<br>Category=GALAXY<br>Description=[ELLIPTICAL, SPIRAL]    |  |  |  |                                 |  |                       |                                     |                                     |  |              |
| <b>Exposures</b>  | <b>#</b>   | <b>Label (ETC Run)</b>   | <b>Target</b>  | <b>Config,Mode,Aperture</b>     | <b>Spectral Els.</b>   | <b>Opt. Params.</b>   | <b>Special Reqs.</b>                | <b>Groups</b>                       | <b>Exp. Time (Total)/[Actual Dur.]</b> | <b>Orbit</b> |
|   | 1  | (1889136)  | (13) MAGPI1206   | WFC3/UVIS, ACCUM, UVIS2-FIX     | F225W  | FLASH=17              |                                     | Pattern 1, Exps 1-1 in Visit 09 (1) | 823 Secs (2469 Secs)                   |              |
|   | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>(Pattern 3)]   |  |  |                                 |  |                       |                                     |                                     |  |              |
|   | 2  | (1889138)  | (13) MAGPI1206   | WFC3/UVIS, ACCUM, UVIS2-FIX     | F275W  | FLASH=18              |                                     | Pattern 1, Exps 2-2 in Visit 09 (1) | 820 Secs (2460 Secs)                   |              |
|   | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>(Pattern 3)]   |  |  |                                 |  |                       |                                     |                                     |  |              |
| 3   | (1889140)  | (13) MAGPI1206   | WFC3/UVIS, ACCUM, UVIS2-FIX  | F336W                           | FLASH=19   |                       | Pattern 1, Exps 3-3 in Visit 09 (1) | 383 Secs (1149 Secs)                |  |              |
| [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>(Pattern 3)]            |  |  |  |                                 |  |                       |                                     |                                     |  |              |
| 4   | (1889141)  | (13) MAGPI1206   | WFC3/UVIS, ACCUM, UVIS2-FIX  | F390W                           | FLASH=17   |                       | Pattern 1, Exps 4-4 in Visit 09 (1) | 348 Secs (872 Secs)                 |  |              |
| [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>176.0 Secs (Pattern 3)] |  |  |  |                                 |  |                       |                                     |                                     |  |              |

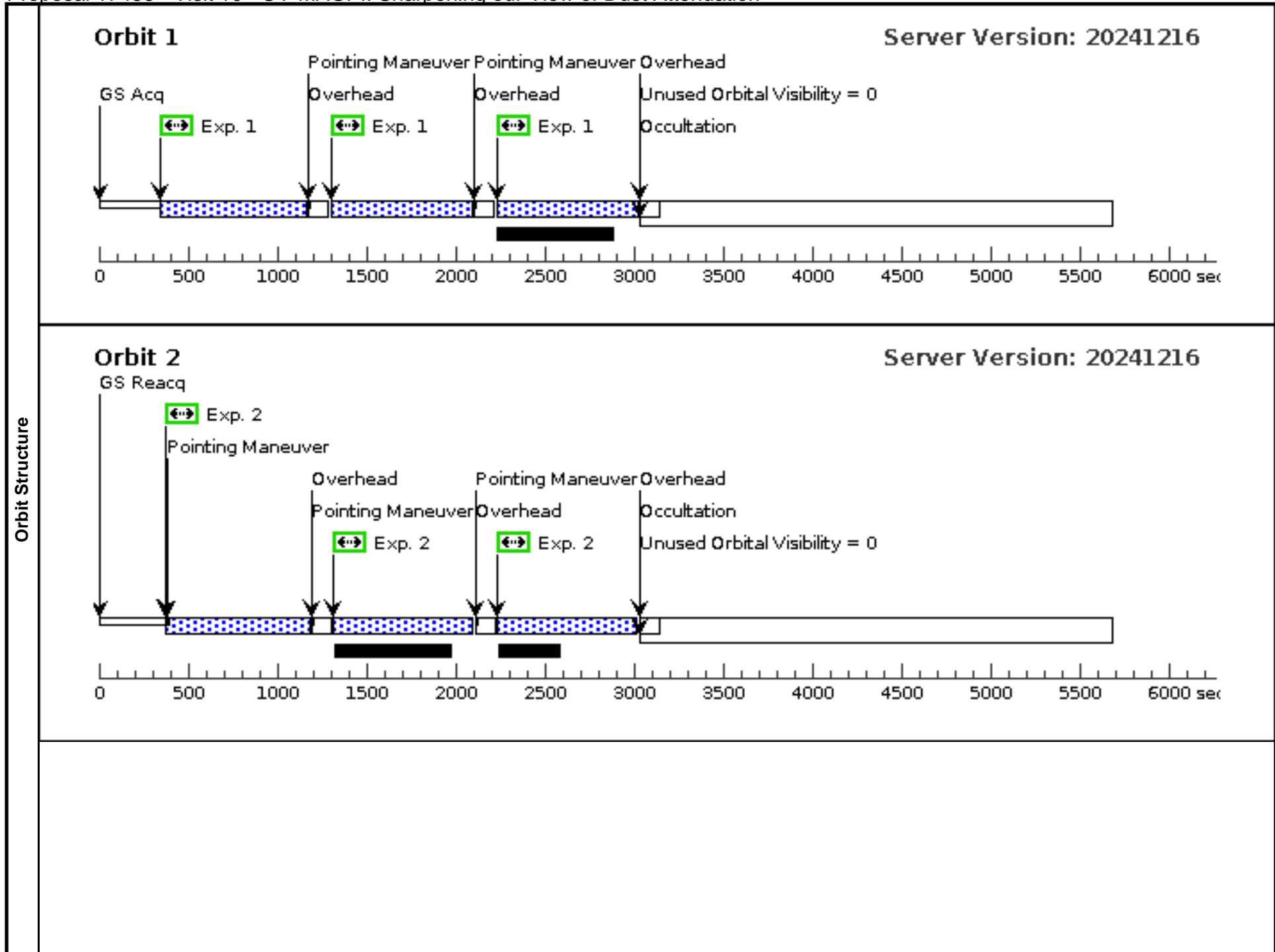




Proposal 17486 - Visit 10 - UV-MAGPI: Sharpening our View of Dust Attenuation

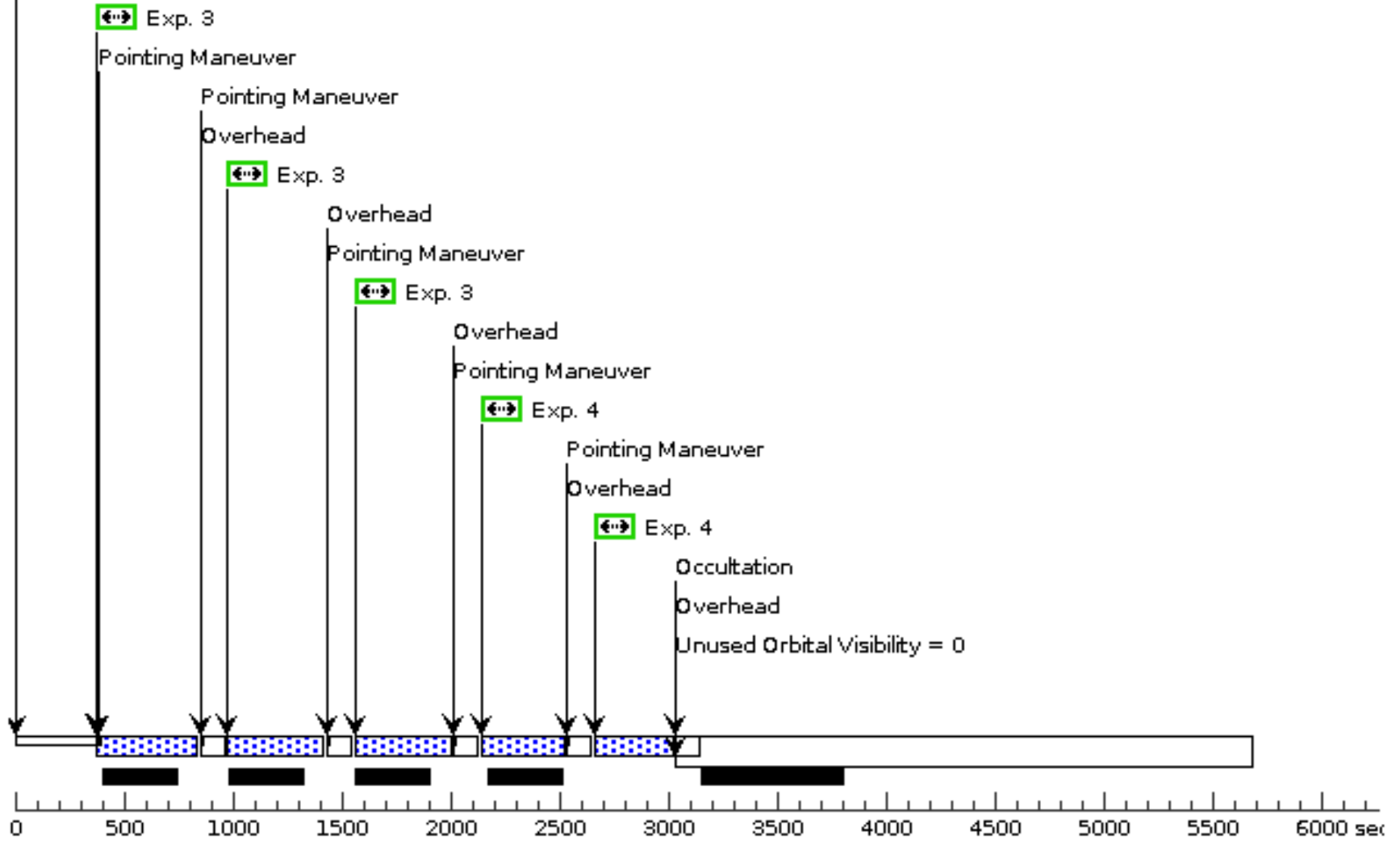
Wed Feb 19 16:00:26 GMT 2025

| Visit   | <b>Proposal 17486, Visit 10, completed</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/UVIS<br>Special Requirements: (none) |  |  |                             |               |                       |                                     |   |  |       |
|---|---|--|--|-----------------------------|---------------|-----------------------|-------------------------------------|---|--|-------|
|   | #   | Primary Pattern  | Secondary Pattern  | Exposures                   |               |                       |                                     |   |  |       |
| Patterns  | (1)   | Pattern Type=WFC3-UVIS-DITHER-LINE-3PT<br>Purpose=DITHER<br>Number Of Points=3<br>Point Spacing=0.135<br>Line Spacing=<br>Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false |  | (1), (2), (3)               |               |                       |                                     |   |  |       |
|   | (2)   | Pattern Type=WFC3-UVIS-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=0.145<br>Line Spacing=<br>Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false     |  | (4)                         |               |                       |                                     |   |  |       |
| Fixed Targets   | #   | Name   | Target Coordinates   | Targ. Coord. Corrections    | Fluxes        | Miscellaneous         |                                     |   |  |       |
|   | (10)  | MAGPI2308  | RA: 23 01 58.1040 (345.4921000d)<br>Dec: -32 47 55.32 (-32.79870d)<br>Equinox: J2000 |                             | V=18          | Reference Frame: ICRS |                                     |   |  |       |
| <i>Comments:</i><br>Category=GALAXY<br>Description=[ELLIPTICAL, SPIRAL] |   |  |  |                             |               |                       |                                     |   |  |       |
| Exposures   | #   | Label (ETC Run)  | Target   | Config,Mode,Aperture        | Spectral Els. | Opt. Params.          | Special Reqs.                       | Groups  | Exp. Time (Total)/[Actual Dur.]                                  | Orbit |
|   | 1   | (1889136)  | (10) MAGPI2308   | WFC3/UVIS, ACCUM, UVIS2-FIX | F225W         | FLASH=17              |                                     | Pattern 1, Exps 1-1 in Visit 10 (1)                   | 790 Secs (2370 Secs)   |       |
|   |   |  |  |                             |               |                       |                                     |   | [=>(Pattern 1)]<br>[=>(Pattern 2)]<br>[=>(Pattern 3)]            | [1]   |
|   | 2   | (1889138)  | (10) MAGPI2308   | WFC3/UVIS, ACCUM, UVIS2-FIX | F275W         | FLASH=18              |                                     | Pattern 1, Exps 2-2 in Visit 10 (1)                   | 783 Secs (2350 Secs)   |       |
|   |   |  |  |                             |               |                       |                                     |   | [=>(Pattern 1)]<br>[=>(Pattern 2)]<br>[=>784.0 Secs (Pattern 3)] | [2]   |
| 3   | (1889140)   | (10) MAGPI2308   | WFC3/UVIS, ACCUM, UVIS2-FIX  | F336W                       | FLASH=18      |                       | Pattern 1, Exps 3-3 in Visit 10 (1) | 444 Secs (1332 Secs)                                  |  |       |
|   |   |  |  |                             |               |                       |                                     | [=>(Pattern 1)]<br>[=>(Pattern 2)]<br>[=>(Pattern 3)] | [3]  |       |
| 4   | (1889141)   | (10) MAGPI2308   | WFC3/UVIS, ACCUM, UVIS2-FIX  | F390W                       | FLASH=16      |                       | Pattern 2, Exps 4-4 in Visit 10 (2) | 360 Secs (720 Secs)                                   |  |       |
|   |   |  |  |                             |               |                       |                                     | [=>(Pattern 1)]<br>[=>(Pattern 2)]                    | [3]  |       |



**Orbit 3**

GS Reacq



Proposal 17486 - Visit 11 - UV-MAGPI: Sharpening our View of Dust Attenuation

Wed Feb 19 16:00:26 GMT 2025

|                      |  |  |   |                                 |                      |                       |                                     |   |   |              |
|----------------------|--|--|---|---------------------------------|----------------------|-----------------------|-------------------------------------|---|---|--------------|
| <b>Visit</b>         | <b>Proposal 17486, Visit 11, completed</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/UVIS<br>Special Requirements: (none)   |  |   |                                 |                      |                       |                                     |   |   |              |
|                      | (Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN |  |   |                                 |                      |                       |                                     |   |   |              |
| <b>Diagnosics</b>    |  |  |   |                                 |                      |                       |                                     |   |   |              |
|                      |  |  |   |                                 |                      |                       |                                     |   |   |              |
| <b>Patterns</b>      | <b>#</b>   | <b>Primary Pattern</b>   | <b>Secondary Pattern</b>  | <b>Exposures</b>                |                      |                       |                                     |   |   |              |
|                      | (1)  | Pattern Type=WFC3-UVIS-DITHER-<br>LINE-3PT<br>Purpose=DITHER<br>Number Of Points=3<br>Point Spacing=0.135<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=46.84<br>Angle Between Sides=<br>Center Pattern=false  | (1), (2), (3), (4)              |                      |                       |                                     |   |   |              |
| <b>Fixed Targets</b> | <b>#</b>   | <b>Name</b>  | <b>Target Coordinates</b>   | <b>Targ. Coord. Corrections</b> | <b>Fluxes</b>        | <b>Miscellaneous</b>  |                                     |   |   |              |
|                      | (11)   | MAGPI2310  | RA: 23 13 12.7440 (348.3031000d)<br>Dec: -34 00 52.20 (-34.01450d)<br>Equinox: J2000<br><br><i>Comments:</i><br>Category=GALAXY<br>Description=[ELLIPTICAL, SPIRAL] |                                 | V=18                 | Reference Frame: ICRS |                                     |   |   |              |
| <b>Exposures</b>     | <b>#</b>   | <b>Label (ETC Run)</b>   | <b>Target</b>   | <b>Config,Mode,Aperture</b>     | <b>Spectral Els.</b> | <b>Opt. Params.</b>   | <b>Special Reqs.</b>                | <b>Groups</b>   | <b>Exp. Time (Total)/[Actual Dur.]</b>                              | <b>Orbit</b> |
|                      | 1  | (1889136)  | (11) MAGPI2310  | WFC3/UVIS, ACCUM, UVIS2-FIX     | F225W                | FLASH=17              |                                     | Pattern 1, Exps 1-1 in Visit 11 (1)                               | 831 Secs (2492 Secs)  |              |
|                      |  |  |   |                                 |                      |                       |                                     |   | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>830.0 Secs (Pattern 3)] | [1]          |
|                      | 2  | (1889138)  | (11) MAGPI2310  | WFC3/UVIS, ACCUM, UVIS2-FIX     | F275W                | FLASH=18              |                                     | Pattern 1, Exps 2-2 in Visit 11 (1)                               | 828 Secs (2483 Secs)  |              |
|                      |  |  |   |                                 |                      |                       |                                     |   | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>827.0 Secs (Pattern 3)] | [2]          |
| 3                    | (1889140)  | (11) MAGPI2310   | WFC3/UVIS, ACCUM, UVIS2-FIX   | F336W                           | FLASH=19             |                       | Pattern 1, Exps 3-3 in Visit 11 (1) | 383 Secs (1149 Secs)  |   |              |
|                      |  |  |   |                                 |                      |                       |                                     | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>(Pattern 3)]          | [3]   |              |
| 4                    | (1889141)  | (11) MAGPI2310   | WFC3/UVIS, ACCUM, UVIS2-FIX   | F390W                           | FLASH=17             |                       | Pattern 1, Exps 4-4 in Visit 11 (1) | 348 Secs (895 Secs)   |   |              |
|                      |  |  |   |                                 |                      |                       |                                     | [==>(Pattern 1)]<br>[==>(Pattern 2)]<br>[==>199 Secs (Pattern 3)] | [3]   |              |

