



# 18371 - All That Glitters Isn't Gold (But It Could Be!): Constraining 3rd-Peak R-Process Abundances in Hyades

Cycle: 34, Proposal Category: GO

(UV Initiative, HWO Precursor Science (HPS))

(Availability Mode: SUPPORTED)

## INVESTIGATORS

| <i>Name</i>                           | <i>Institution</i>                 |
|---------------------------------------|------------------------------------|
| <b>Dr. Amaya Sinha (PI) (Contact)</b> | <b>University of Utah</b>          |
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| Dr. Carrie Fillion (CoI)              | Flatiron Institute                 |
| Dr. Natalie R. Myers (CoI)            | The Johns Hopkins University       |
| Zoe Hackshaw (CoI)                    | University of Texas at Austin      |
| Madeleine McKenzie (CoI)              | Carnegie Institution of Washington |
| Dr. Aida Behmard (CoI)                | Flatiron Institute                 |
| Dr. Gail Zasowski (CoI) (CoPI)        | University of Utah                 |
| Dr. Rachael L Beaton (CoI)            | Space Telescope Science Institute  |

## 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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 02           | (1) -EPS-TAU                 | STIS/CCD<br>STIS/NUV-MAMA           | 2                  | 19-Aug-2026 10:00:55.0        | yes                           |
| 03           | (1) -EPS-TAU                 | STIS/CCD<br>STIS/NUV-MAMA           | 3                  | 19-Aug-2026 10:00:56.0        | 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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 04           | (2) -GAM-TAU                 | STIS/CCD<br>STIS/NUV-MAMA           | 2                  | 19-Aug-2026 10:00:57.0        | yes                           |
| 05           | (2) -GAM-TAU                 | STIS/CCD<br>STIS/NUV-MAMA           | 3                  | 19-Aug-2026 10:00:58.0        | yes                           |
| 06           | (3) -TET01-TAU               | STIS/CCD<br>STIS/NUV-MAMA           | 1                  | 19-Aug-2026 10:00:59.0        | yes                           |
| 07           | (3) -TET01-TAU               | STIS/CCD<br>STIS/NUV-MAMA           | 3                  | 19-Aug-2026 10:01:00.0        | yes                           |
| 08           | (4) -DEL-TAU                 | STIS/CCD<br>STIS/NUV-MAMA           | 2                  | 19-Aug-2026 10:01:01.0        | yes                           |
| 09           | (4) -DEL-TAU                 | STIS/CCD<br>STIS/NUV-MAMA           | 3                  | 19-Aug-2026 10:01:02.0        | yes                           |
| 12           | (7) HD-28258                 | STIS/CCD<br>STIS/NUV-MAMA           | 2                  | 19-Aug-2026 10:01:02.0        | yes                           |
| 14           | (7) HD-28258                 | STIS/CCD<br>STIS/NUV-MAMA           | 2                  | 19-Aug-2026 10:01:03.0        | yes                           |
| 16           | (8) V-V997-TAU               | STIS/CCD<br>STIS/NUV-MAMA           | 3                  | 19-Aug-2026 10:01:04.0        | yes                           |
| 17           | (9) HD-28099                 | STIS/CCD<br>STIS/NUV-MAMA           | 2                  | 19-Aug-2026 10:01:04.0        | yes                           |

28 Total Orbits Used

## ABSTRACT

The nucleosynthetic origins and abundance patterns of 3rd-peak rapid-neutron-capture-process elements, particularly lanthanides and actinides, in metal-rich stars remain an ongoing mystery in galactic archaeology, as most 3rd-peak elements are only detectable in the ultraviolet. These elements are hypothesized to be forged in highly energetic events (e.g., electron-capture supernovae and neutron-star mergers); therefore, knowledge of their Galactic abundance patterns is crucial for developing a self-consistent understanding of galactic chemical evolution. We will provide this knowledge by observing seven stars (four K-giants and three K-dwarfs) in the Hyades (Melotte 25), a 600 Myr-old, solar-metallicity open cluster, with the

Hubble Space Telescope Imaging Spectrograph. Using high-resolution STIS E230M/E230H spectra, we will place the first-ever constraints in metal-rich stars for the following elements: Ga, Ge, As, Se, Cd, In, Sn, Sb, Te, Ta, W, Re, Pt, Au, Hg, Tl, Pb, and Bi. By jointly analyzing our targets with optical Magellan/MIKE and near-infrared McDonald/IGRINS spectra, we will measure chemical abundances and constrain cluster homogeneity to within 0.1 dex for over sixty elements. Our analysis will provide a key age-resolved anchor for understanding 3rd-peak element enrichment and establish Hyades as one of the best chemically characterized objects in the Galaxy.

## **OBSERVING DESCRIPTION**

The goal of this observing program is to collect E230H R=114,000 and E230M R=30,000 spectra of seven stars in the open star cluster Hyades (Melotte 25). All targets are non-variable stars, meaning spectra can be obtained at any point in time. Observations for all targets have been distributed across 1-3 orbit visits to maximize scheduling flexibility. ICRS coordinates and proper motions were taken from Gaia DR3 I have checked the target confirmation chart, and the crosshairs line up to within 1 DSS pixel for all targets.

### **Giant Star Sample:**

The four giant stars each have observations grouped into 2 and 3 orbit visits respectively. Visit 1 contains: ACQ, ACQ/PEAK, and 5 science exposures on the E230H/2063 central wavelength. The only exception to this is TET-TAU, which includes 1 orbit for: ACQ, ACQ/PEAK, and 3 exposures on E230H/2063. This choice was due to TET-TAU's low luminosity in at 2000 angstroms, and our requirement of fitting our observations into 28 orbits. Visit 2 contains: ACQ, ACQ/PEAK, and SCIENCE exposures. Our target SNR for the giant same is SNR > 50 across the spectrum redward of 2200. Between 2000-2200 we aim for SNR between 10-30.

We test this by providing the ETC with synthetic spectra at each star's effective temperature, surface gravity, metallicity, and apparent magnitude. For the 2063 and 3012 we get the warning "WARNING MESSAGE: Partial overlap between instrument throughput band and target spectrum. Please doublecheck the wavelength range covered by the selected spectrum, and the instrument documentation for the selected filter." This is because our spectra only cover the range of 2000-3000 angstroms, and show not affect science observations. The BOT gives unsafe warning for the four giant stars; however, it assumes an O5V type star. All giant stars in this sample are K0III stars, and their target information includes their B, Gaia, and 2MASS magnitudes. When tested on the STIS-ETC calculator we do not exceed the maximum count rate.

### **Dwarf Star Sample:**

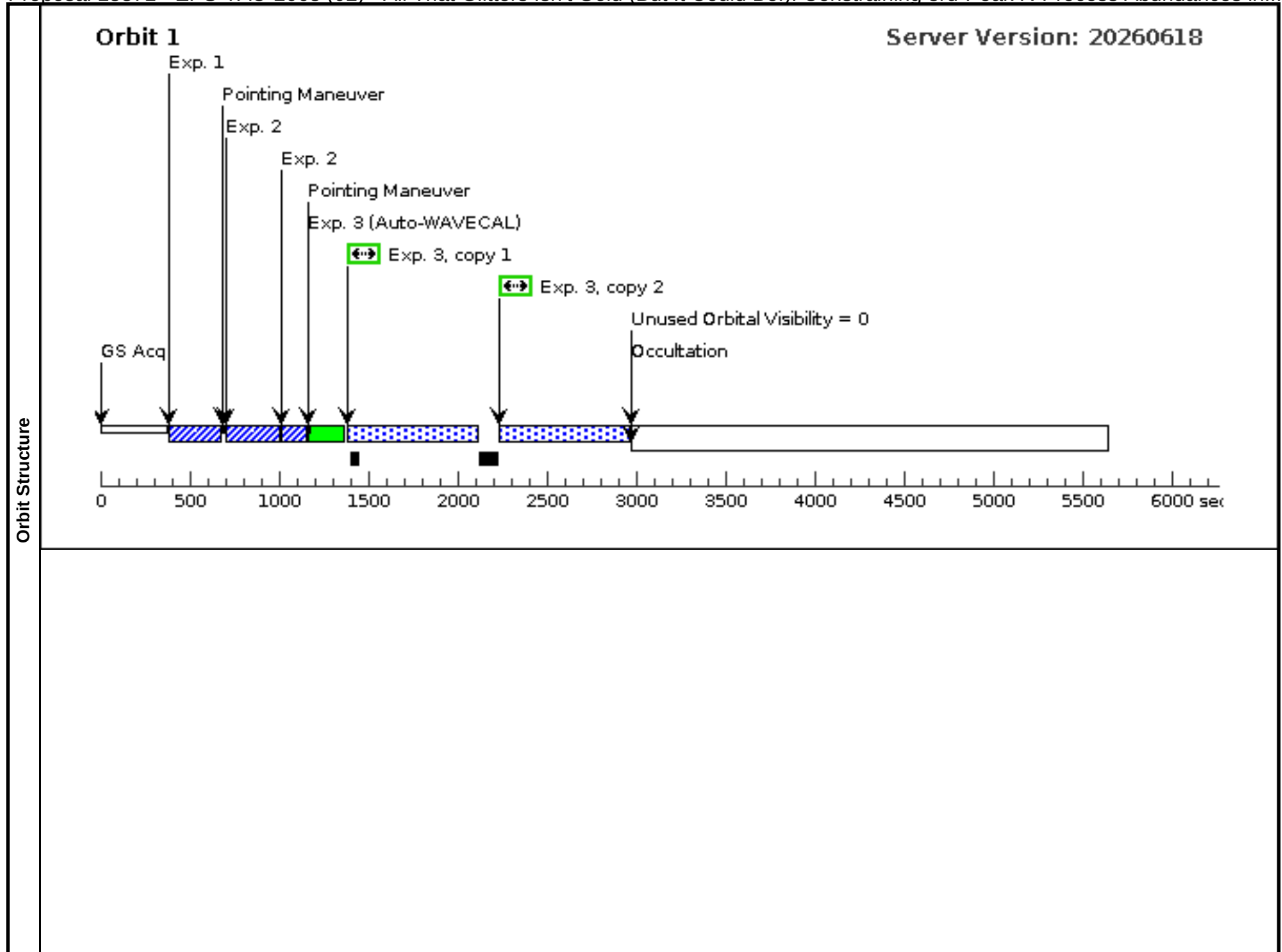
The three dwarf stars in the sample have observations grouped into 1-2 visits. HD-28258 has individual visits for the E230M/2269 and E230M/2707 gratings that follow the format: :ACQ, ACQ/PEAK, and SCIENCE exposures. V-V997-TAU and HD-28099 have both gratings grouped in the same

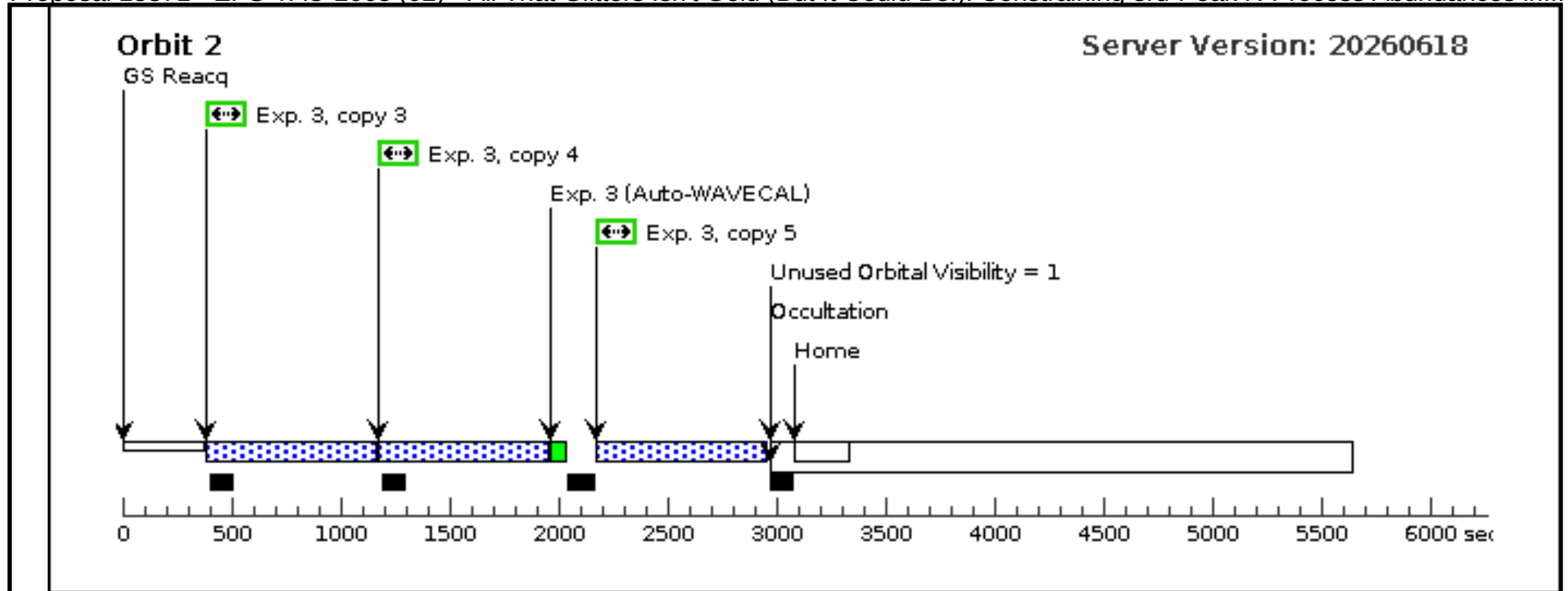
Proposal 18371 (STScI Edit Number: 0, Created: Wednesday, August 19, 2026, 9:01:05AM Eastern Standard Time) - Overview

visits. These three stars were classified as safe using the BOT. We remove HD-28462 and HD-27771 from our sample as their observations caused our orbit allocation to be exceeded, and individually we could not reasonably group their observations without overrun orbits.

# Proposal 18371 - EPS-TAU-2063 (02) - All That Glitters Isn't Gold (But It Could Be!): Constraining 3rd-Peak R-Process Abundances in...

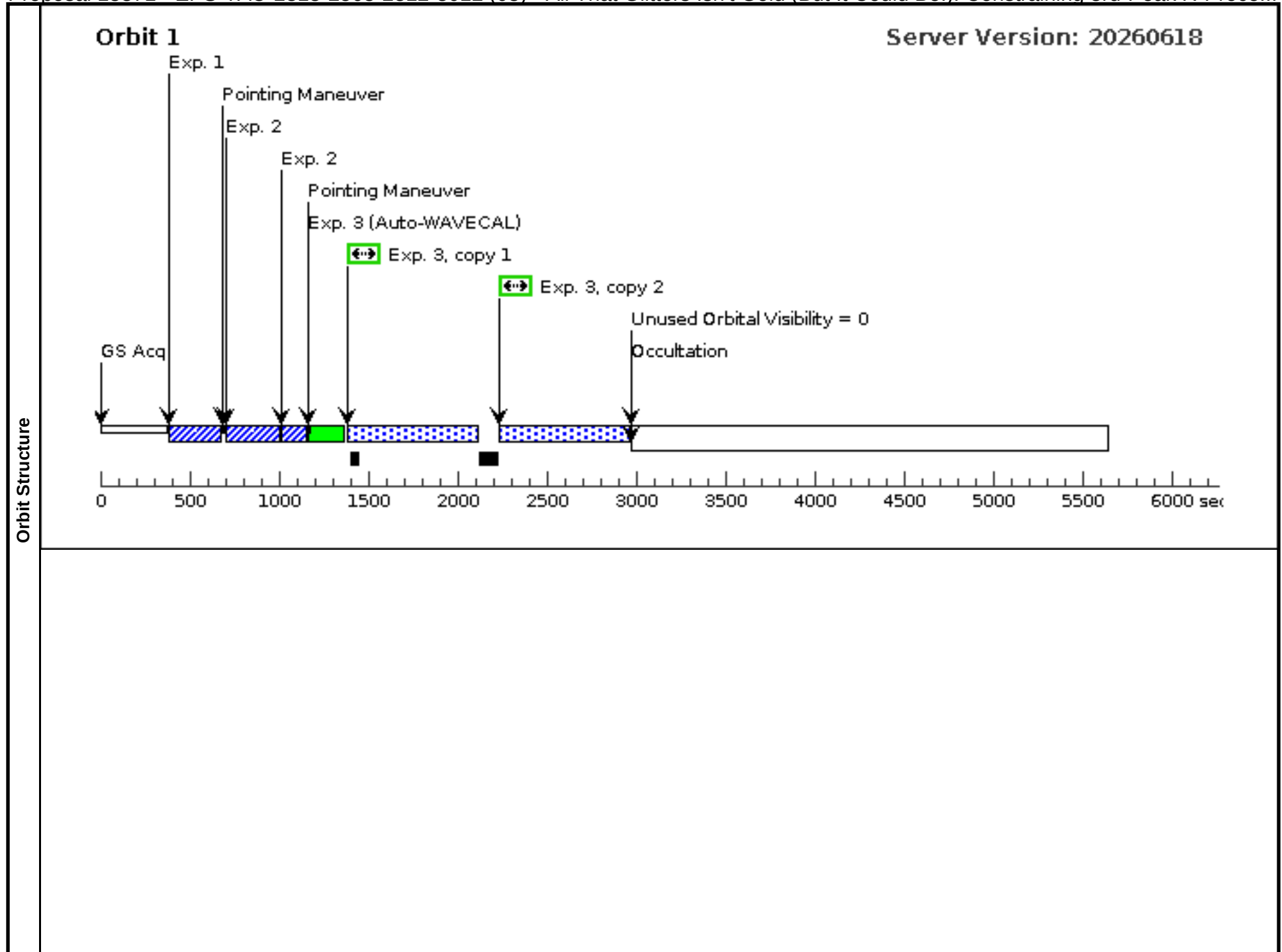
| Visit                    | Proposal 18371, EPS-TAU-2063 (02), implementation                                                                                                                                                                                                                                               |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                 |  | Wed Aug 19 14:01:05 GMT 2026 |  |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------|---------------|-----------------------|---------------------------------|--|------------------------------|--|
|                          | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                 |  |                              |  |
|                          | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                 |  |                              |  |
|                          | Special Requirements: (none)                                                                                                                                                                                                                                                                    |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                 |  |                              |  |
| Fixed Targets            | #                                                                                                                                                                                                                                                                                               | Name                        | Target Coordinates                                                                 | Targ. Coord. Corrections                                                                                                            |                 | Fluxes                                                                                           |               | Miscellaneous         |                                 |  |                              |  |
|                          | (1)                                                                                                                                                                                                                                                                                             | -EPS-TAU                    | RA: 04 28 37.0003 (67.1541679d)<br>Dec: +19 10 49.56 (19.18043d)<br>Equinox: J2000 | Proper Motion RA: 107.526 mas/yr<br>Proper Motion Dec: -36.19999997681589 mas/yr<br>Parallax: 0.0223654"<br>Epoch of Position: 2000 |                 | V=3.53<br>B: 4.54 (Johnson) G: 3.28 BP: 3.90 RP: 2.66 (Gaia DR3) J: 1.90 H: 1.31 K: 1.31 (2MASS) |               | Reference Frame: ICRS |                                 |  |                              |  |
|                          | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                 |  |                              |  |
|                          | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                 |  |                              |  |
|                          | Category=STAR<br>Description=[K III-I]<br>Extended=NO                                                                                                                                                                                                                                           |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                 |  |                              |  |
| Exposures                | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)             | Target                                                                             | Config,Mode,Aperture                                                                                                                | Spectral Els.   | Opt. Params.                                                                                     | Special Reqs. | Groups                | Exp. Time (Total)/[Actual Dur.] |  | Orbit                        |  |
|                          | 1                                                                                                                                                                                                                                                                                               | ACQ (STIS.ta.236 6976)      | (1) -EPS-TAU                                                                       | STIS/CCD, ACQ, F25ND5                                                                                                               | MIRROR          |                                                                                                  |               |                       | 0.3 Secs (0.3 Secs)             |  |                              |  |
|                          |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       | [==>]                           |  | [1]                          |  |
|                          | 2                                                                                                                                                                                                                                                                                               | ACQ/PEAK (STIS.ta.236 6979) | (1) -EPS-TAU                                                                       | STIS/CCD, ACQ/PEAK, 0.3X0.05ND                                                                                                      | MIRROR          |                                                                                                  |               |                       | 0.1 Secs (0.1 Secs)             |  |                              |  |
|                          |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       | [==>]                           |  | [1]                          |  |
|                          | 3                                                                                                                                                                                                                                                                                               | 2063 (STIS.sp.23 66955)     | (1) -EPS-TAU                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                      | E230H<br>2063 A |                                                                                                  |               |                       | 500 Secs X 5 (3726 Secs)        |  |                              |  |
|                          |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       | [==>714.0 Secs (Copy 1)]        |  | [1]                          |  |
| [==>714.0 Secs (Copy 2)] |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                 |  |                              |  |
| [==>766.0 Secs (Copy 3)] |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       | [2]                             |  |                              |  |
| [==>766.0 Secs (Copy 4)] |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                 |  |                              |  |
| [==>766.0 Secs (Copy 5)] |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                 |  |                              |  |





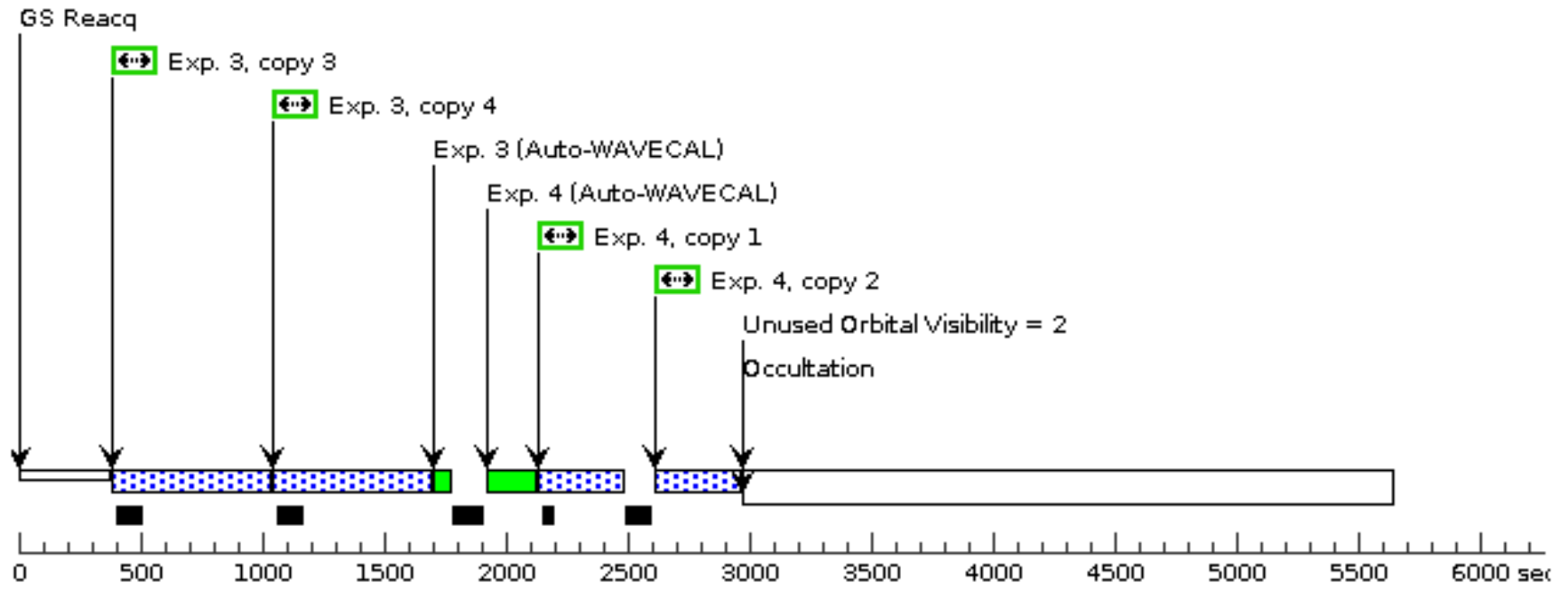
# Proposal 18371 - EPS-TAU-2313-2563-2812-3012 (03) - All That Glitters Isn't Gold (But It Could Be!): Constraining 3rd-Peak R-Proce...

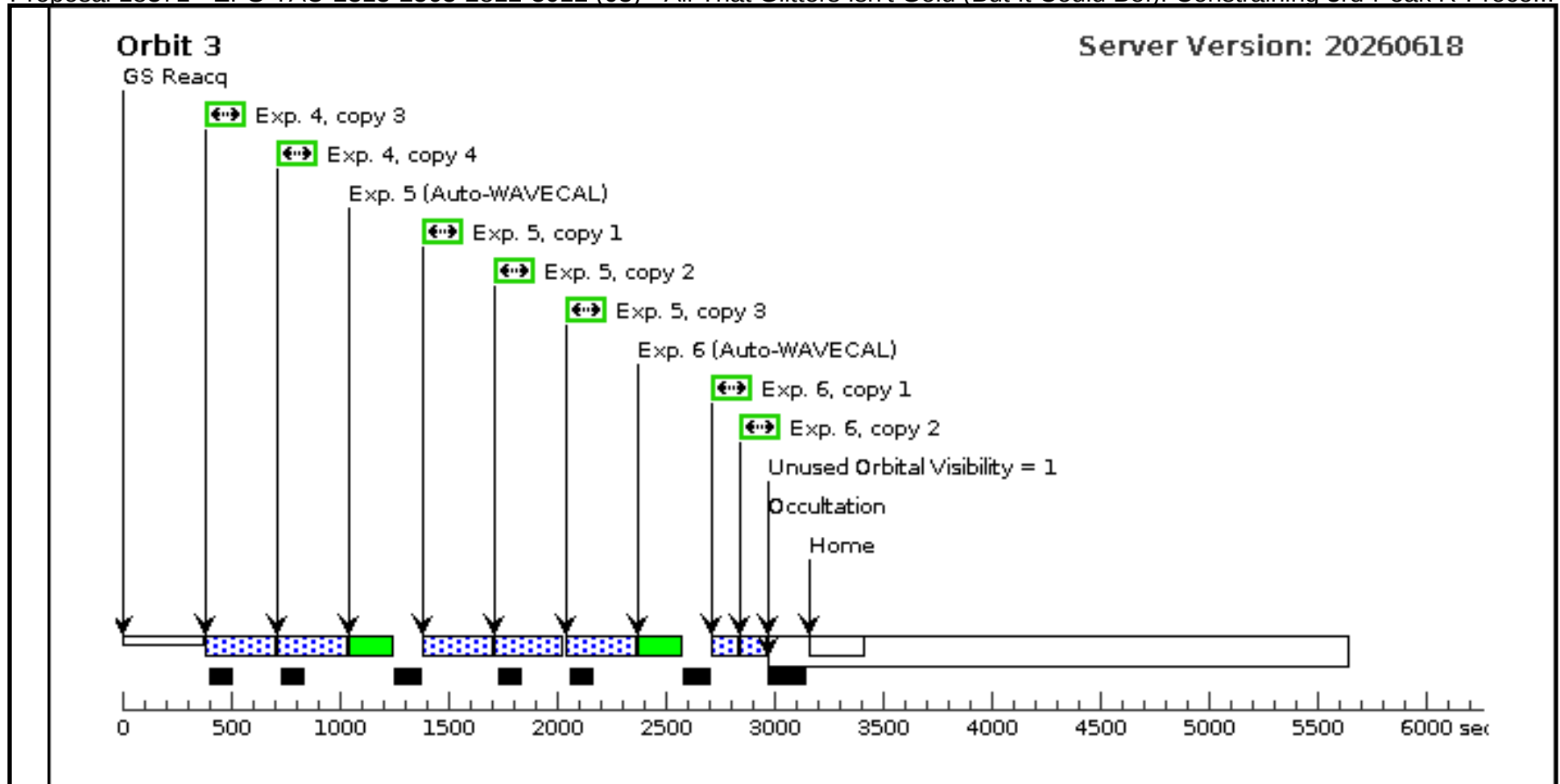
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                                                                                                  |                       |               |        |                                                                                                                                          |            |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------|---------------|--------|------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Visit         | Proposal 18371, EPS-TAU-2313-2563-2812-3012 (03), implementation                                                                                                                                                                                                                                |                             |                                                                                    |                                                                                                                                     |                                                                                                  |                       |               |        | Wed Aug 19 14:01:05 GMT 2026                                                                                                             |            |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                             |                                                                                    |                                                                                                                                     |                                                                                                  |                       |               |        |                                                                                                                                          |            |
|               | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                                                                                                  |                       |               |        |                                                                                                                                          |            |
|               | Special Requirements: (none)                                                                                                                                                                                                                                                                    |                             |                                                                                    |                                                                                                                                     |                                                                                                  |                       |               |        |                                                                                                                                          |            |
| Fixed Targets | #                                                                                                                                                                                                                                                                                               | Name                        | Target Coordinates                                                                 | Targ. Coord. Corrections                                                                                                            | Fluxes                                                                                           | Miscellaneous         |               |        |                                                                                                                                          |            |
|               | (1)                                                                                                                                                                                                                                                                                             | -EPS-TAU                    | RA: 04 28 37.0003 (67.1541679d)<br>Dec: +19 10 49.56 (19.18043d)<br>Equinox: J2000 | Proper Motion RA: 107.526 mas/yr<br>Proper Motion Dec: -36.19999997681589 mas/yr<br>Parallax: 0.0223654"<br>Epoch of Position: 2000 | V=3.53<br>B: 4.54 (Johnson) G: 3.28 BP: 3.90 RP: 2.66 (Gaia DR3) J: 1.90 H: 1.31 K: 1.31 (2MASS) | Reference Frame: ICRS |               |        |                                                                                                                                          |            |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                             |                                                                                    |                                                                                                                                     |                                                                                                  |                       |               |        |                                                                                                                                          |            |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                             |                                                                                    |                                                                                                                                     |                                                                                                  |                       |               |        |                                                                                                                                          |            |
|               | Category=STAR<br>Description=[K III-I]<br>Extended=NO                                                                                                                                                                                                                                           |                             |                                                                                    |                                                                                                                                     |                                                                                                  |                       |               |        |                                                                                                                                          |            |
| Exposures     | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)             | Target                                                                             | Config,Mode,Aperture                                                                                                                | Spectral Els.                                                                                    | Opt. Params.          | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.]                                                                                                          | Orbit      |
|               | 1                                                                                                                                                                                                                                                                                               | ACQ (STIS.ta.236 6976)      | (1) -EPS-TAU                                                                       | STIS/CCD, ACQ, F25ND5                                                                                                               | MIRROR                                                                                           |                       |               |        | 0.3 Secs (0.3 Secs)<br>[==>]                                                                                                             | [1]        |
|               | 2                                                                                                                                                                                                                                                                                               | ACQ/PEAK (STIS.ta.236 6979) | (1) -EPS-TAU                                                                       | STIS/CCD, ACQ/PEAK, 0.3X0.05ND                                                                                                      | MIRROR                                                                                           |                       |               |        | 0.1 Secs (0.1 Secs)<br>[==>]                                                                                                             | [1]        |
|               | 3                                                                                                                                                                                                                                                                                               | 2313 (STIS.sp.23 66954)     | (1) -EPS-TAU                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                      | E230H<br>2313 A                                                                                  |                       |               |        | 600 Secs X 4 (2702 Secs)<br>[==>714.0 Secs (Copy 1)]<br>[==>714.0 Secs (Copy 2)]<br>[==>637.0 Secs (Copy 3)]<br>[==>637.0 Secs (Copy 4)] | [1]<br>[2] |
|               | 4                                                                                                                                                                                                                                                                                               | 2563 (STIS.sp.23 66949)     | (1) -EPS-TAU                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                      | E230H<br>2563 A                                                                                  |                       |               |        | 300 Secs X 4 (1280 Secs)<br>[==>337.0 Secs (Copy 1)]<br>[==>337.0 Secs (Copy 2)]<br>[==>303.0 Secs (Copy 3)]<br>[==>303.0 Secs (Copy 4)] | [2]<br>[3] |
|               | 5                                                                                                                                                                                                                                                                                               | 2812 (STIS.sp.23 66948)     | (1) -EPS-TAU                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                      | E230H<br>2812 A                                                                                  |                       |               |        | 300 Secs X 3 (909 Secs)<br>[==>303.0 Secs (Copy 1)]<br>[==>303.0 Secs (Copy 2)]<br>[==>303.0 Secs (Copy 3)]                              | [3]        |
|               | 6                                                                                                                                                                                                                                                                                               | 3012 (STIS.sp.23 66946)     | (1) -EPS-TAU                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                      | E230H<br>3012 A                                                                                  |                       |               |        | 100 Secs X 2 (206 Secs)<br>[==>103.0 Secs (Copy 1)]<br>[==>103.0 Secs (Copy 2)]                                                          | [3]        |



## Orbit 2

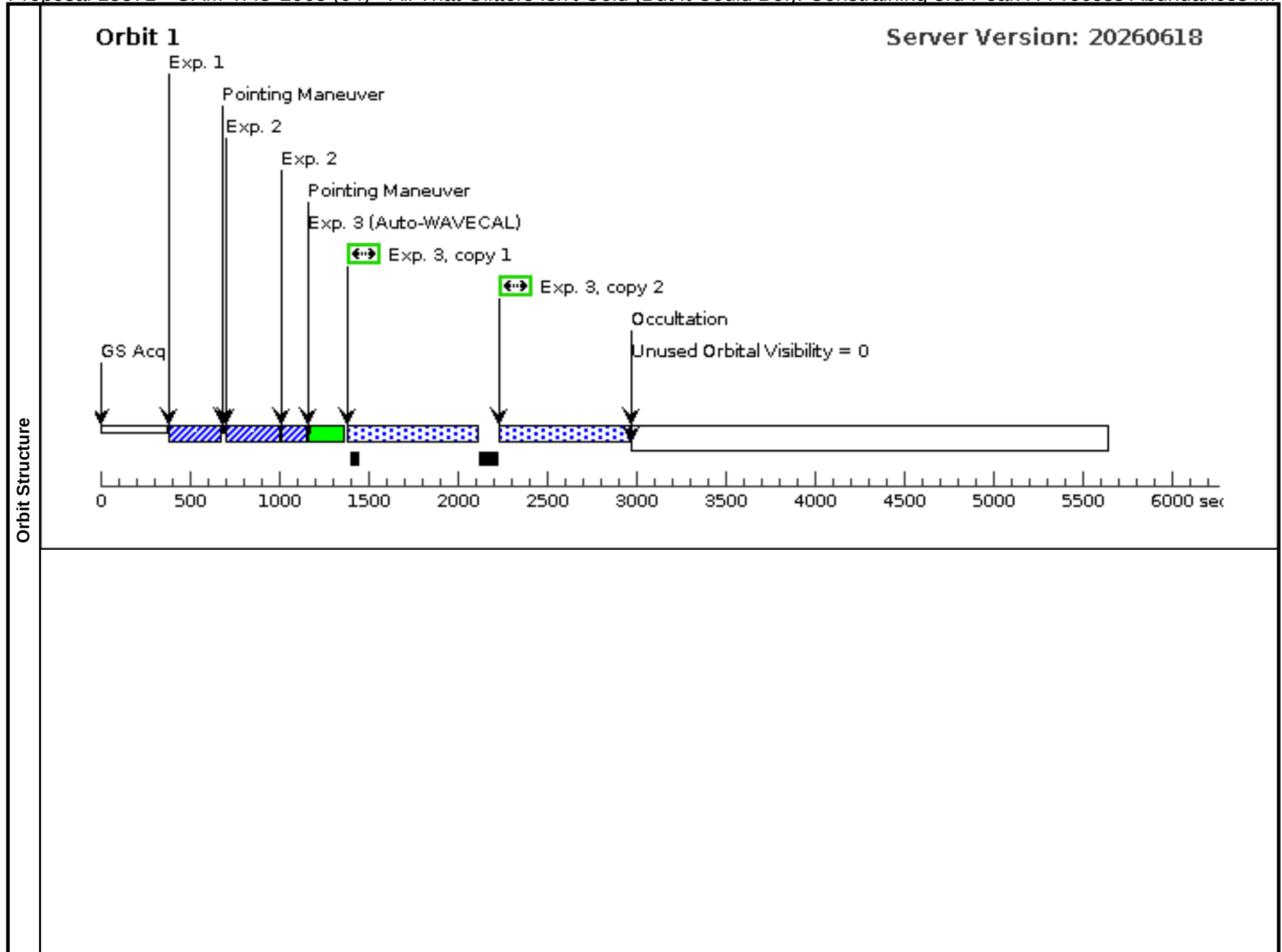
Server Version: 20260618

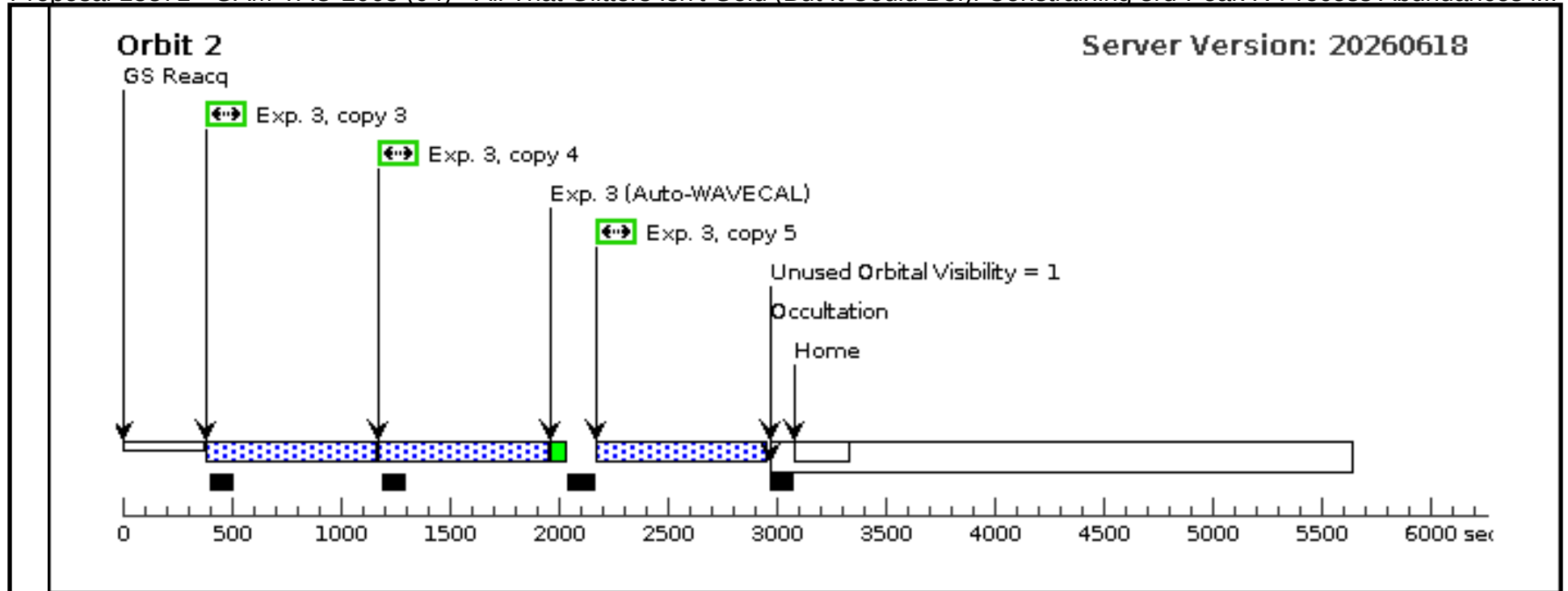




# Proposal 18371 - GAM-TAU-2063 (04) - All That Glitters Isn't Gold (But It Could Be!): Constraining 3rd-Peak R-Process Abundances i...

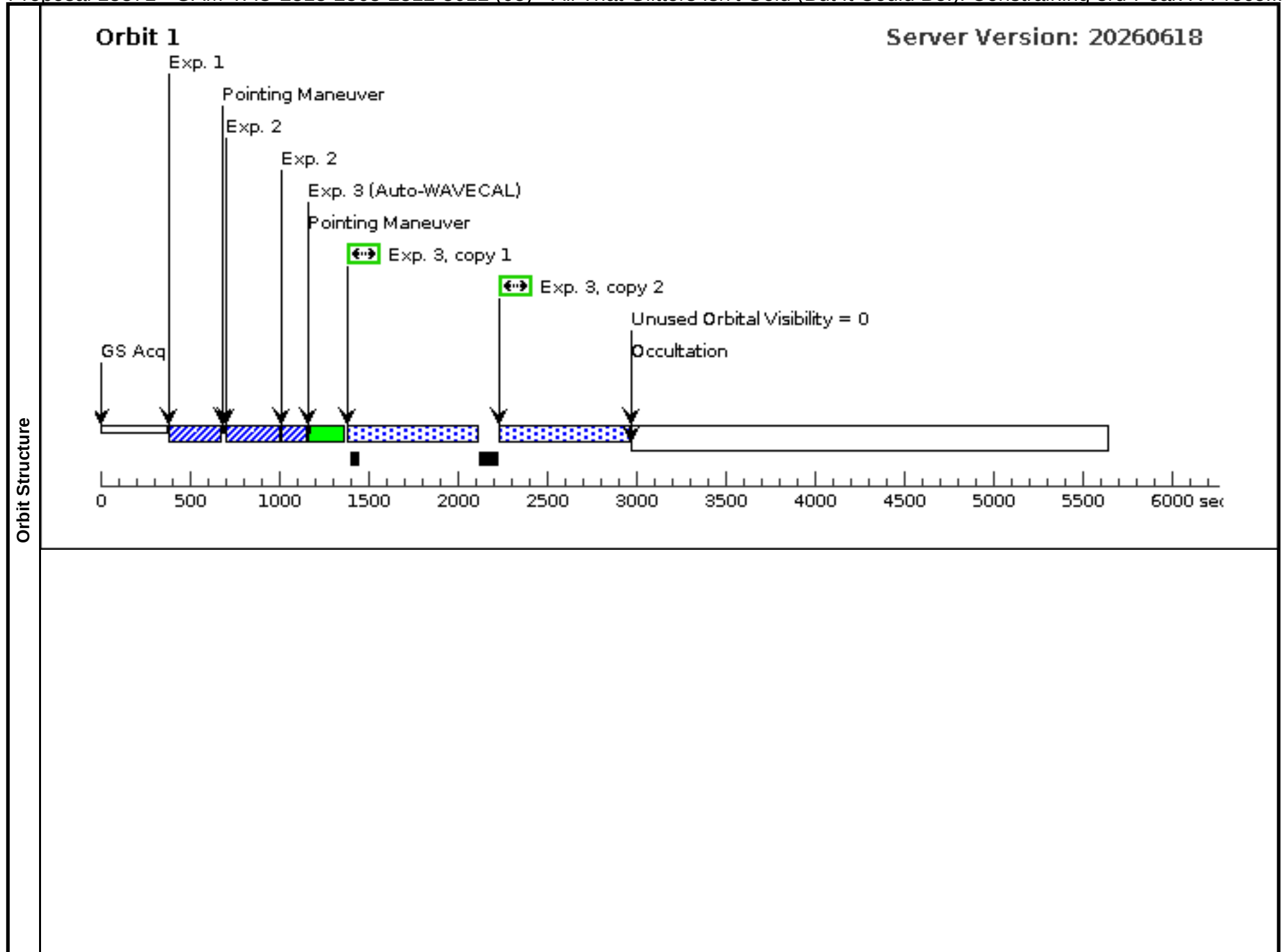
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |                              |       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------|---------------|--------------------------|---------------------------------|------------------------------|-------|
| Visit         | Proposal 18371, GAM-TAU-2063 (04), implementation                                                                                                                                                                                                                                               |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 | Wed Aug 19 14:01:05 GMT 2026 |       |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |                              |       |
|               | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                                                                                                                                                                                 |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |                              |       |
|               | Special Requirements: (none)                                                                                                                                                                                                                                                                    |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |                              |       |
| Fixed Targets | #                                                                                                                                                                                                                                                                                               | Name                        | Target Coordinates                                                                 |                                | Targ. Coord. Corrections                                                                                                             |                 | Fluxes                                                                                           |               | Miscellaneous            |                                 |                              |       |
|               | (2)                                                                                                                                                                                                                                                                                             | -GAM-TAU                    | RA: 04 19 47.6039 (64.9483496d)<br>Dec: +15 37 39.51 (15.62764d)<br>Equinox: J2000 |                                | Proper Motion RA: 116.247 mas/yr<br>Proper Motion Dec: -23.367999938272987 mas/yr<br>Parallax: 0.0216645"<br>Epoch of Position: 2000 |                 | V=3.65<br>B: 4.64 (Johnson) G: 3.40 BP: 3.97 RP: 2.77 (Gaia DR3) J: 2.02 H: 1.50 K: 1.49 (2MASS) |               | Reference Frame: ICRS    |                                 |                              |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |                              |       |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |                              |       |
|               | Category=STAR                                                                                                                                                                                                                                                                                   |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |                              |       |
|               | Description=[K III-I]<br>Extended=NO                                                                                                                                                                                                                                                            |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |                              |       |
| Exposures     | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)             | Target                                                                             | Config.Mode,Aperture           |                                                                                                                                      | Spectral Els.   | Opt. Params.                                                                                     | Special Reqs. | Groups                   | Exp. Time (Total)/[Actual Dur.] |                              | Orbit |
|               | 1                                                                                                                                                                                                                                                                                               | ACQ (STIS.ta.236 6976)      | (2) -GAM-TAU                                                                       | STIS/CCD, ACQ, F25ND5          |                                                                                                                                      | MIRROR          |                                                                                                  |               |                          | 0.3 Secs (0.3 Secs)             |                              |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>]                           |                              | [1]   |
|               | 2                                                                                                                                                                                                                                                                                               | ACQ/PEAK (STIS.ta.236 6979) | (2) -GAM-TAU                                                                       | STIS/CCD, ACQ/PEAK, 0.3X0.05ND |                                                                                                                                      | MIRROR          |                                                                                                  |               |                          | 0.1 Secs (0.1 Secs)             |                              |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>]                           |                              | [1]   |
|               | 3                                                                                                                                                                                                                                                                                               | 2063 (STIS.sp.23 66955)     | (2) -GAM-TAU                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.09 |                                                                                                                                      | E230H<br>2063 A |                                                                                                  |               |                          | 500 Secs X 5 (3726 Secs)        |                              |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>714.0 Secs (Copy 1)]        |                              |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>714.0 Secs (Copy 2)]        |                              | [1]   |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               | [==>766.0 Secs (Copy 3)] |                                 |                              |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               | [==>766.0 Secs (Copy 4)] |                                 | [2]                          |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                |                                                                                                                                      |                 |                                                                                                  |               | [==>766.0 Secs (Copy 5)] |                                 |                              |       |





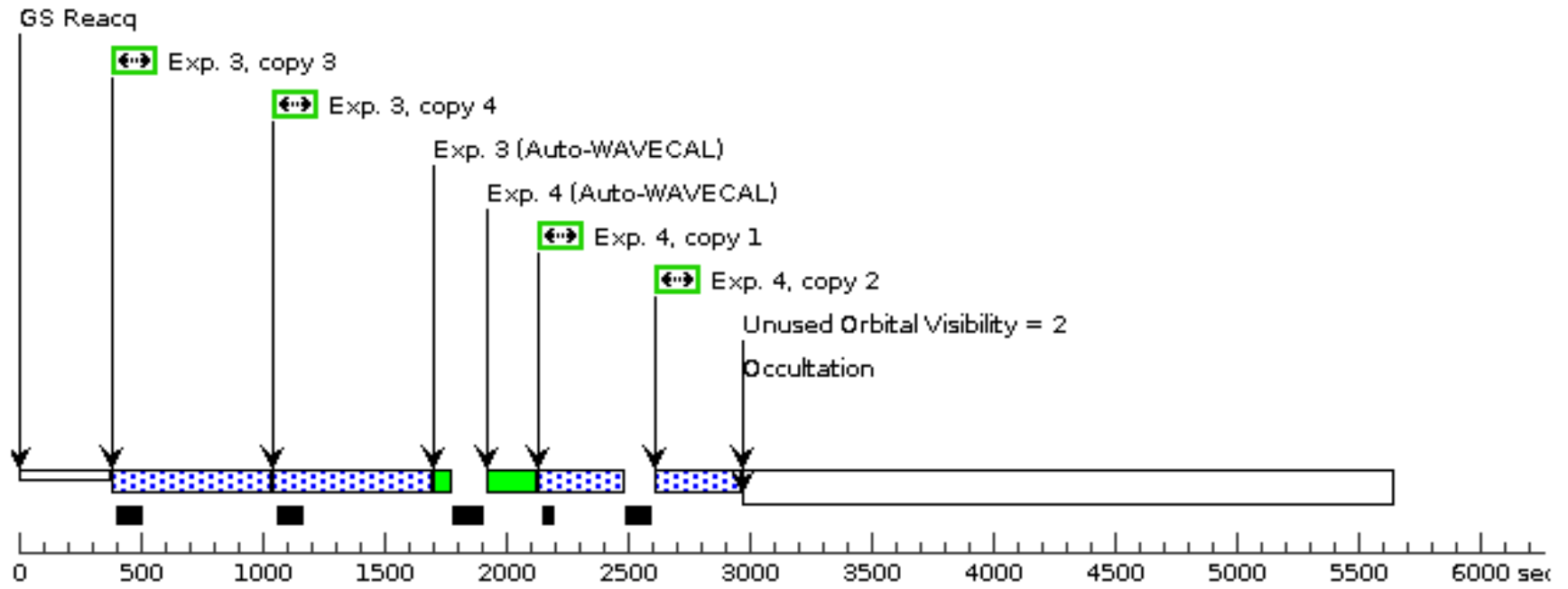
# Proposal 18371 - GAM-TAU-2313-2563-2812-3012 (05) - All That Glitters Isn't Gold (But It Could Be!): Constraining 3rd-Peak R-Proce...

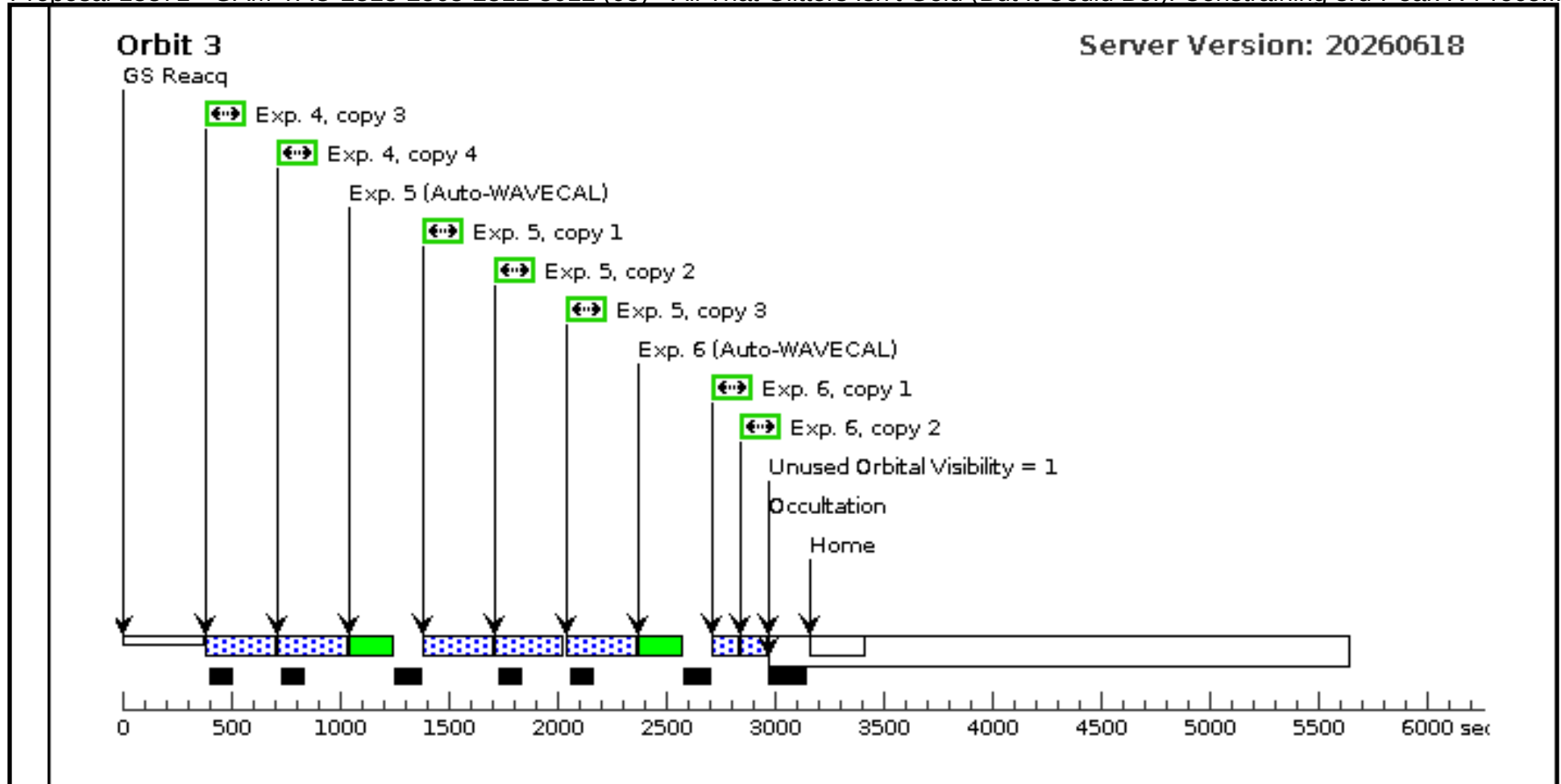
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |     |                              |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------|---------------|--------------------------|---------------------------------|-----|------------------------------|
| Visit         | Proposal 18371, GAM-TAU-2313-2563-2812-3012 (05), implementation                                                                                                                                                                                                                                |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |     | Wed Aug 19 14:01:05 GMT 2026 |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |     |                              |
|               | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |     |                              |
|               | Special Requirements: (none)                                                                                                                                                                                                                                                                    |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |     |                              |
| Fixed Targets | #                                                                                                                                                                                                                                                                                               | Name                        | Target Coordinates                                                                 | Targ. Coord. Corrections                                                                                                             |                 | Fluxes                                                                                           |               | Miscellaneous            |                                 |     |                              |
|               | (2)                                                                                                                                                                                                                                                                                             | -GAM-TAU                    | RA: 04 19 47.6039 (64.9483496d)<br>Dec: +15 37 39.51 (15.62764d)<br>Equinox: J2000 | Proper Motion RA: 116.247 mas/yr<br>Proper Motion Dec: -23.367999938272987 mas/yr<br>Parallax: 0.0216645"<br>Epoch of Position: 2000 |                 | V=3.65<br>B: 4.64 (Johnson) G: 3.40 BP: 3.97 RP: 2.77 (Gaia DR3) J: 2.02 H: 1.50 K: 1.49 (2MASS) |               | Reference Frame: ICRS    |                                 |     |                              |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |     |                              |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |     |                              |
|               | Category=STAR<br>Description=[K III-I]<br>Extended=NO                                                                                                                                                                                                                                           |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          |                                 |     |                              |
| Exposures     | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)             | Target                                                                             | Config,Mode,Aperture                                                                                                                 | Spectral Els.   | Opt. Params.                                                                                     | Special Reqs. | Groups                   | Exp. Time (Total)/[Actual Dur.] |     | Orbit                        |
|               | 1                                                                                                                                                                                                                                                                                               | ACQ (STIS.ta.236 6976)      | (2) -GAM-TAU                                                                       | STIS/CCD, ACQ, F25ND5                                                                                                                | MIRROR          |                                                                                                  |               |                          | 0.3 Secs (0.3 Secs)             |     |                              |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>]                           |     | [1]                          |
|               | 2                                                                                                                                                                                                                                                                                               | ACQ/PEAK (STIS.ta.236 6979) | (2) -GAM-TAU                                                                       | STIS/CCD, ACQ/PEAK, 0.3X0.05ND                                                                                                       | MIRROR          |                                                                                                  |               |                          | 0.1 Secs (0.1 Secs)             |     |                              |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>]                           |     | [1]                          |
|               | 3                                                                                                                                                                                                                                                                                               | 2313 (STIS.sp.23 66954)     | (2) -GAM-TAU                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                       | E230H<br>2313 A |                                                                                                  |               |                          | 600 Secs X 4 (2702 Secs)        |     |                              |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>714.0 Secs (Copy 1)]        |     | [1]                          |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>714.0 Secs (Copy 2)]        |     |                              |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>637.0 Secs (Copy 3)]        |     | [2]                          |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>637.0 Secs (Copy 4)]        |     |                              |
|               | 4                                                                                                                                                                                                                                                                                               | 2563 (STIS.sp.23 66949)     | (2) -GAM-TAU                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                       | E230H<br>2563 A |                                                                                                  |               |                          | 300 Secs X 4 (1280 Secs)        |     |                              |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>337.0 Secs (Copy 1)]        |     | [2]                          |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>337.0 Secs (Copy 2)]        |     |                              |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>303.0 Secs (Copy 3)]        |     | [3]                          |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                          | [==>303.0 Secs (Copy 4)]        |     |                              |
| 5             | 2812 (STIS.sp.23 66948)                                                                                                                                                                                                                                                                         | (2) -GAM-TAU                | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                     | E230H<br>2812 A                                                                                                                      |                 |                                                                                                  |               | 300 Secs X 3 (909 Secs)  |                                 |     |                              |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               | [==>303.0 Secs (Copy 1)] |                                 | [3] |                              |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               | [==>303.0 Secs (Copy 2)] |                                 |     |                              |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               | [==>303.0 Secs (Copy 3)] |                                 |     |                              |
| 6             | 3012 (STIS.sp.23 66946)                                                                                                                                                                                                                                                                         | (2) -GAM-TAU                | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                     | E230H<br>3012 A                                                                                                                      |                 |                                                                                                  |               | 100 Secs X 2 (206 Secs)  |                                 |     |                              |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               | [==>103.0 Secs (Copy 1)] |                                 | [3] |                              |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               | [==>103.0 Secs (Copy 2)] |                                 |     |                              |



## Orbit 2

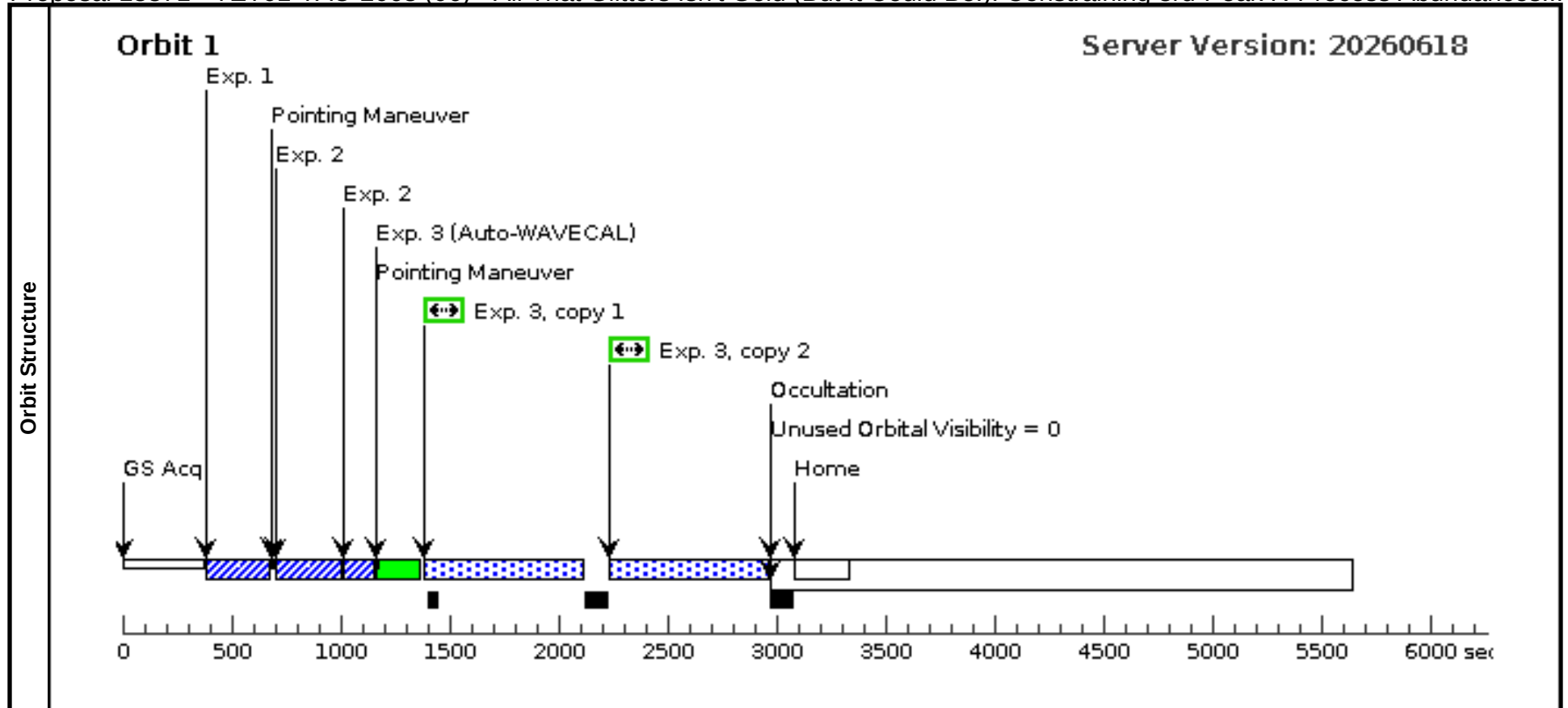
Server Version: 20260618





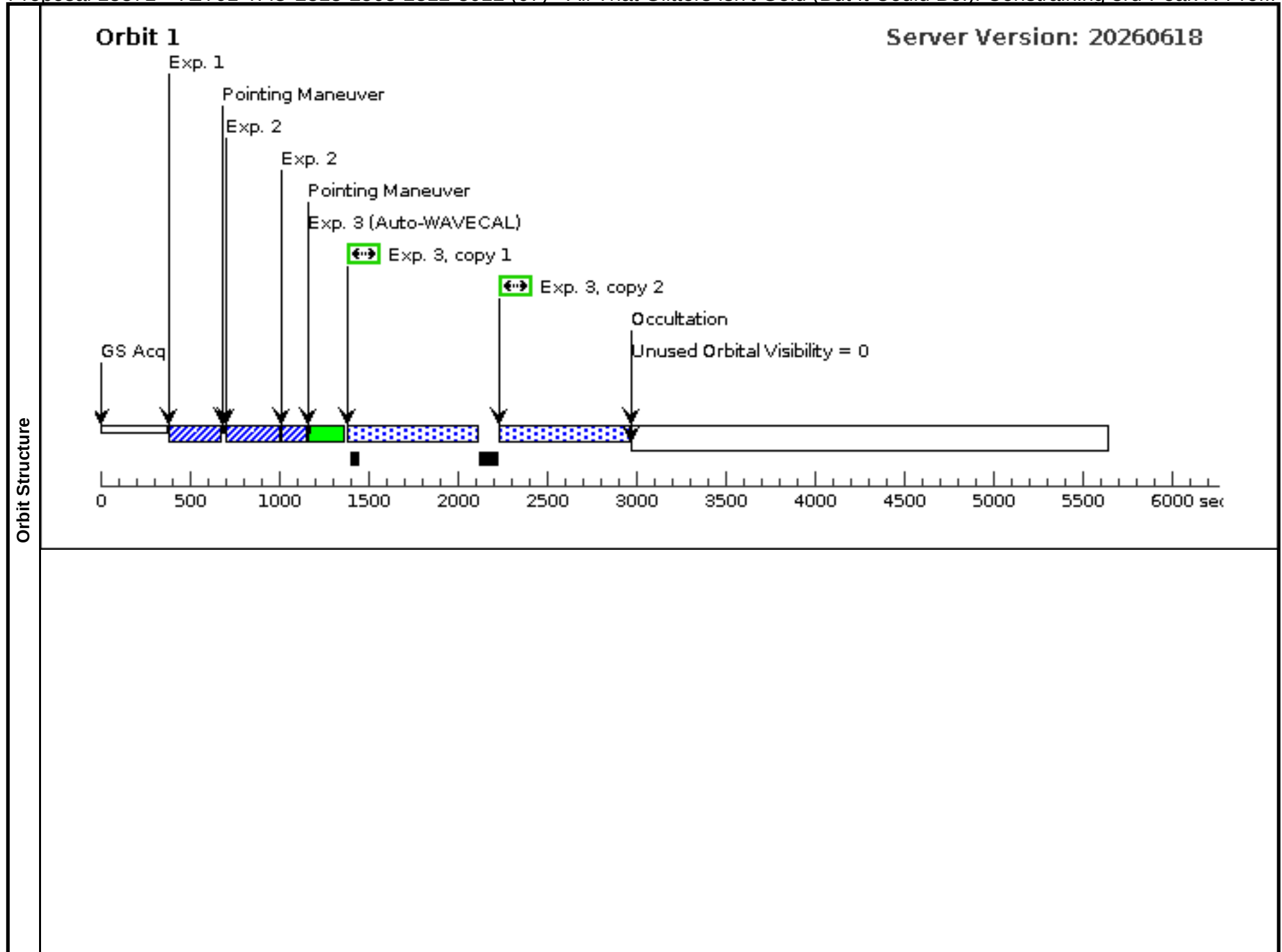
# Proposal 18371 - TET01-TAU-2063 (06) - All That Glitters Isn't Gold (But It Could Be!): Constraining 3rd-Peak R-Process Abundances...

|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                     |               |                                                      |                                 |       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------|---------------------------------|-------|
| Visit         | Proposal 18371, TET01-TAU-2063 (06), implementation                                                                                                                                                                                                                                             |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                     |               |                                                      | Wed Aug 19 14:01:05 GMT 2026    |       |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                     |               |                                                      |                                 |       |
|               | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                     |               |                                                      |                                 |       |
|               | Special Requirements: (none)                                                                                                                                                                                                                                                                    |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                     |               |                                                      |                                 |       |
| Fixed Targets | #                                                                                                                                                                                                                                                                                               | Name                        | Target Coordinates                                                                 | Targ. Coord. Corrections                                                                                                            |                 | Fluxes                                                                                              |               | Miscellaneous                                        |                                 |       |
|               | (3)                                                                                                                                                                                                                                                                                             | -TET01-TAU                  | RA: 04 28 34.4979 (67.1437413d)<br>Dec: +15 57 44.22 (15.96228d)<br>Equinox: J2000 | Proper Motion RA: 106.133 mas/yr<br>Proper Motion Dec: -58.12900005821575 mas/yr<br>Parallax: 0.0247693"<br>Epoch of Position: 2000 |                 | V=3.84<br>B: 4.78 (Johnson) G: 3.58 BP: 4.13 RP: 2.97 (Gaia DR3) J: 2.29<br>H: 1.75 K: 1.73 (2MASS) |               | Reference Frame: ICRS                                |                                 |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                     |               |                                                      |                                 |       |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                     |               |                                                      |                                 |       |
|               | Category=STAR<br>Description=[K III-I]<br>Extended=NO                                                                                                                                                                                                                                           |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                     |               |                                                      |                                 |       |
| Exposures     | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)             | Target                                                                             | Config,Mode,Aperture                                                                                                                | Spectral Els.   | Opt. Params.                                                                                        | Special Reqs. | Groups                                               | Exp. Time (Total)/[Actual Dur.] | Orbit |
|               | 1                                                                                                                                                                                                                                                                                               | ACQ (STIS.ta.236 6976)      | (3) -TET01-TAU                                                                     | STIS/CCD, ACQ, F25ND5                                                                                                               | MIRROR          |                                                                                                     |               |                                                      | 0.3 Secs (0.3 Secs)             |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                     |               |                                                      | [==>]                           | [1]   |
|               | 2                                                                                                                                                                                                                                                                                               | ACQ/PEAK (STIS.ta.236 6979) | (3) -TET01-TAU                                                                     | STIS/CCD, ACQ/PEAK, 0.3X0.05ND                                                                                                      | MIRROR          |                                                                                                     |               |                                                      | 0.1 Secs (0.1 Secs)             |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                     |               |                                                      | [==>]                           | [1]   |
|               | 3                                                                                                                                                                                                                                                                                               | 2063 (STIS.sp.23 66955)     | (3) -TET01-TAU                                                                     | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                      | E230H<br>2063 A |                                                                                                     |               |                                                      | 500 Secs X 2 (1428 Secs)        |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                     |               | [==>714.0 Secs (Copy 1)]<br>[==>714.0 Secs (Copy 2)] | [1]                             |       |



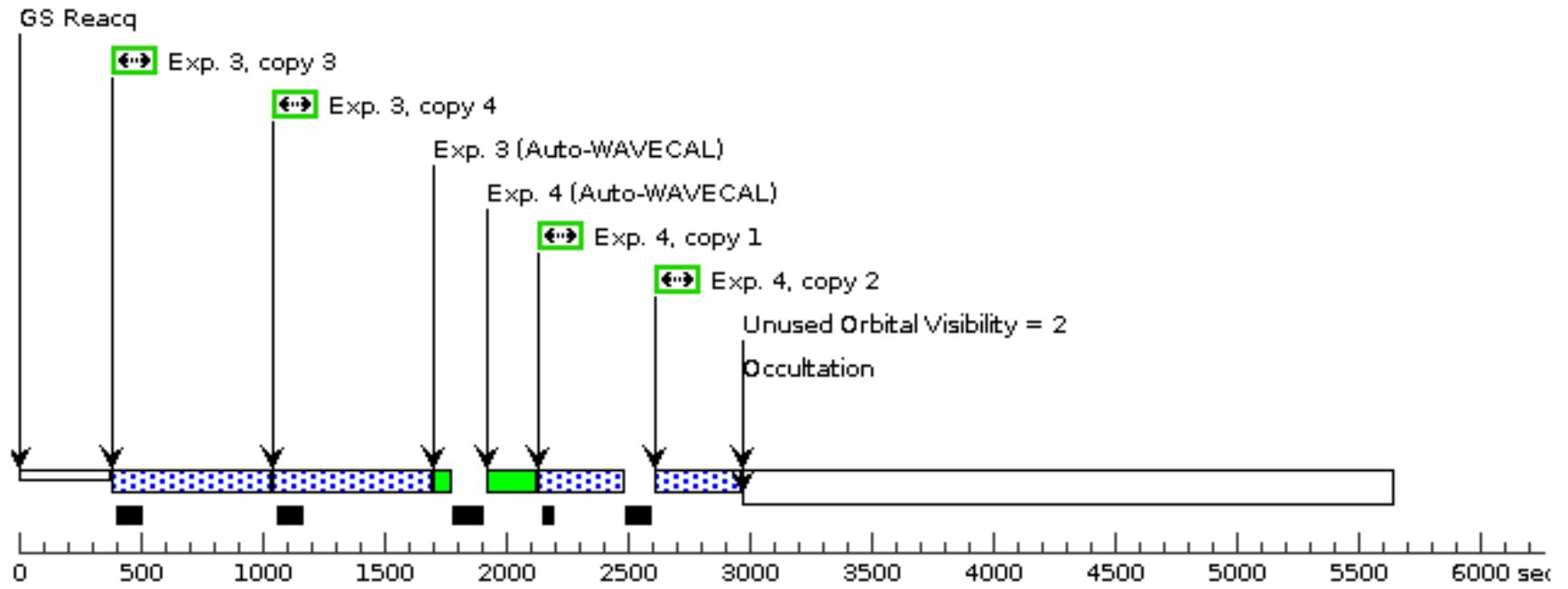
# Proposal 18371 - TET01-TAU-2313-2563-2812-3012 (07) - All That Glitters Isn't Gold (But It Could Be!): Constraining 3rd-Peak R-Pro...

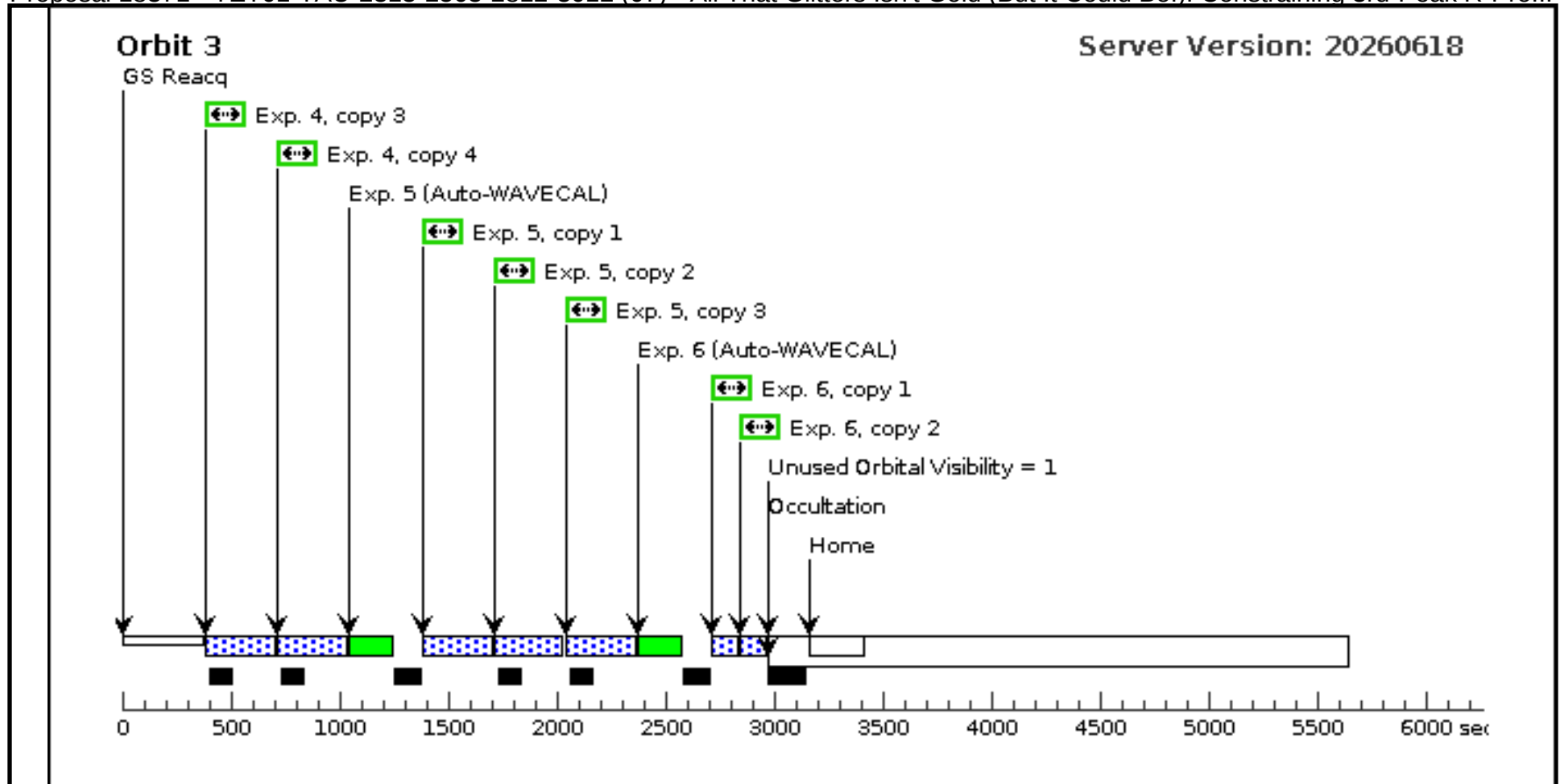
|               |                                                                                                                                                                                                                                                                                                                                                          |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                                                                                                                          |            |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------|---------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Visit         | Proposal 18371, TET01-TAU-2313-2563-2812-3012 (07), implementation                                                                                                                                                                                                                                                                                       |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       | Wed Aug 19 14:01:05 GMT 2026                                                                                                             |            |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                                                                                        |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                                                                                                                          |            |
|               | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                                                                                                                                                                                                                                          |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                                                                                                                          |            |
|               | Special Requirements: (none)                                                                                                                                                                                                                                                                                                                             |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                                                                                                                          |            |
| Fixed Targets | #                                                                                                                                                                                                                                                                                                                                                        | Name                        | Target Coordinates                                                                 | Targ. Coord. Corrections                                                                                                            |                 | Fluxes                                                                                           |               | Miscellaneous         |                                                                                                                                          |            |
|               | (3)                                                                                                                                                                                                                                                                                                                                                      | -TET01-TAU                  | RA: 04 28 34.4979 (67.1437413d)<br>Dec: +15 57 44.22 (15.96228d)<br>Equinox: J2000 | Proper Motion RA: 106.133 mas/yr<br>Proper Motion Dec: -58.12900005821575 mas/yr<br>Parallax: 0.0247693"<br>Epoch of Position: 2000 |                 | V=3.84<br>B: 4.78 (Johnson) G: 3.58 BP: 4.13 RP: 2.97 (Gaia DR3) J: 2.29 H: 1.75 K: 1.73 (2MASS) |               | Reference Frame: ICRS |                                                                                                                                          |            |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                        |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                                                                                                                          |            |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.<br>Category=STAR<br>Description=[K III-I]<br>Extended=NO |                             |                                                                                    |                                                                                                                                     |                 |                                                                                                  |               |                       |                                                                                                                                          |            |
| Exposures     | #                                                                                                                                                                                                                                                                                                                                                        | Label (ETC Run)             | Target                                                                             | Config,Mode,Aperture                                                                                                                | Spectral Els.   | Opt. Params.                                                                                     | Special Reqs. | Groups                | Exp. Time (Total)/[Actual Dur.]                                                                                                          | Orbit      |
|               | 1                                                                                                                                                                                                                                                                                                                                                        | ACQ (STIS.ta.236 6976)      | (3) -TET01-TAU                                                                     | STIS/CCD, ACQ, F25ND5                                                                                                               | MIRROR          |                                                                                                  |               |                       | 0.3 Secs (0.3 Secs)<br>[==>]                                                                                                             | [1]        |
|               | 2                                                                                                                                                                                                                                                                                                                                                        | ACQ/PEAK (STIS.ta.236 6979) | (3) -TET01-TAU                                                                     | STIS/CCD, ACQ/PEAK, 0.3X0.05ND                                                                                                      | MIRROR          |                                                                                                  |               |                       | 0.1 Secs (0.1 Secs)<br>[==>]                                                                                                             | [1]        |
|               | 3                                                                                                                                                                                                                                                                                                                                                        | 2313 (STIS.sp.23 66954)     | (3) -TET01-TAU                                                                     | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                      | E230H<br>2313 A |                                                                                                  |               |                       | 600 Secs X 4 (2702 Secs)<br>[==>714.0 Secs (Copy 1)]<br>[==>714.0 Secs (Copy 2)]<br>[==>637.0 Secs (Copy 3)]<br>[==>637.0 Secs (Copy 4)] | [1]<br>[2] |
|               | 4                                                                                                                                                                                                                                                                                                                                                        | 2563 (STIS.sp.23 66949)     | (3) -TET01-TAU                                                                     | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                      | E230H<br>2563 A |                                                                                                  |               |                       | 300 Secs X 4 (1280 Secs)<br>[==>337.0 Secs (Copy 1)]<br>[==>337.0 Secs (Copy 2)]<br>[==>303.0 Secs (Copy 3)]<br>[==>303.0 Secs (Copy 4)] | [2]<br>[3] |
|               | 5                                                                                                                                                                                                                                                                                                                                                        | 2812 (STIS.sp.23 66948)     | (3) -TET01-TAU                                                                     | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                      | E230H<br>2812 A |                                                                                                  |               |                       | 300 Secs X 3 (909 Secs)<br>[==>303.0 Secs (Copy 1)]<br>[==>303.0 Secs (Copy 2)]<br>[==>303.0 Secs (Copy 3)]                              | [3]        |
|               | 6                                                                                                                                                                                                                                                                                                                                                        | 3012 (STIS.sp.23 66946)     | (3) -TET01-TAU                                                                     | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                      | E230H<br>3012 A |                                                                                                  |               |                       | 100 Secs X 2 (206 Secs)<br>[==>103.0 Secs (Copy 1)]<br>[==>103.0 Secs (Copy 2)]                                                          | [3]        |



## Orbit 2

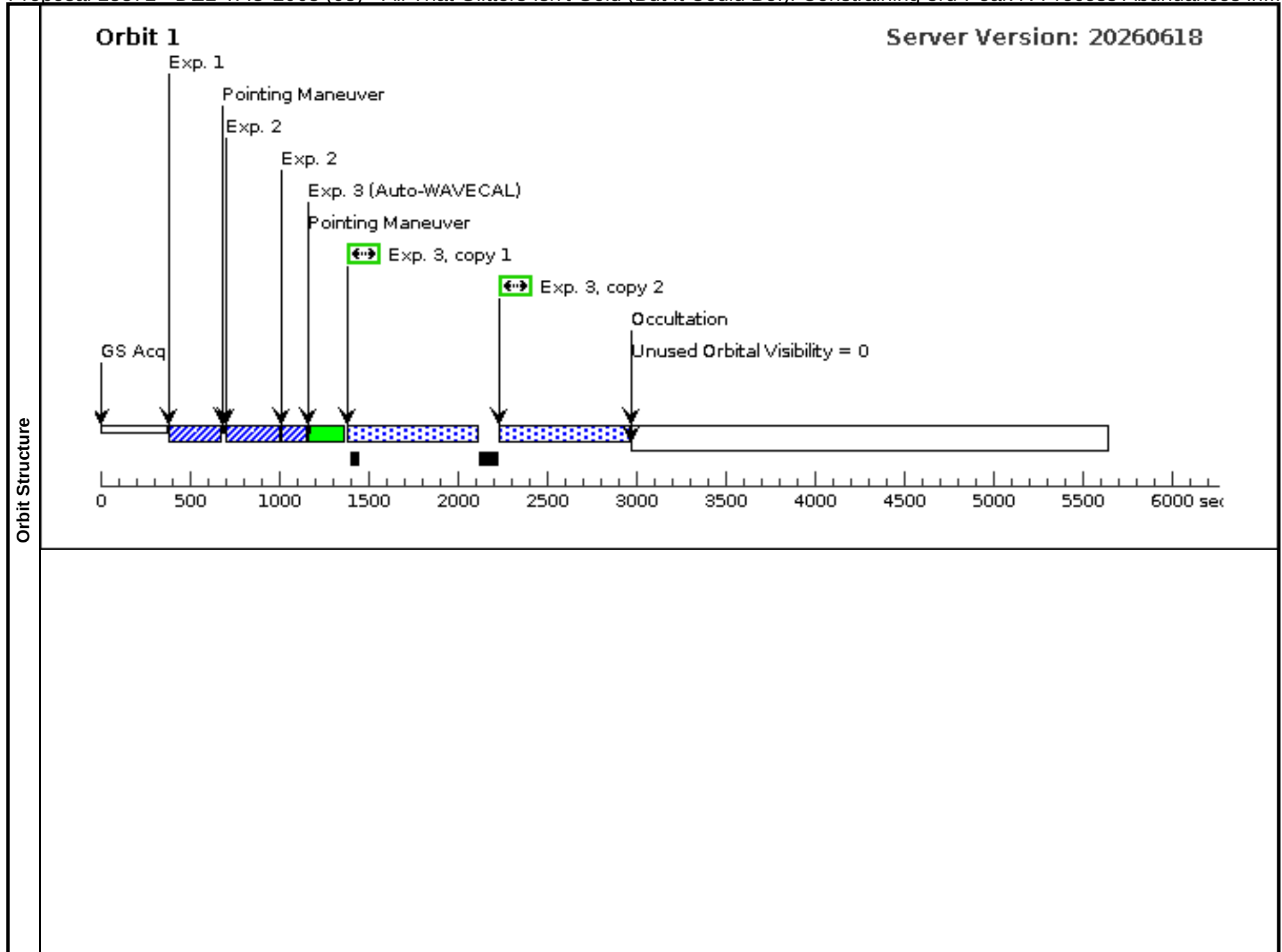
Server Version: 20260618

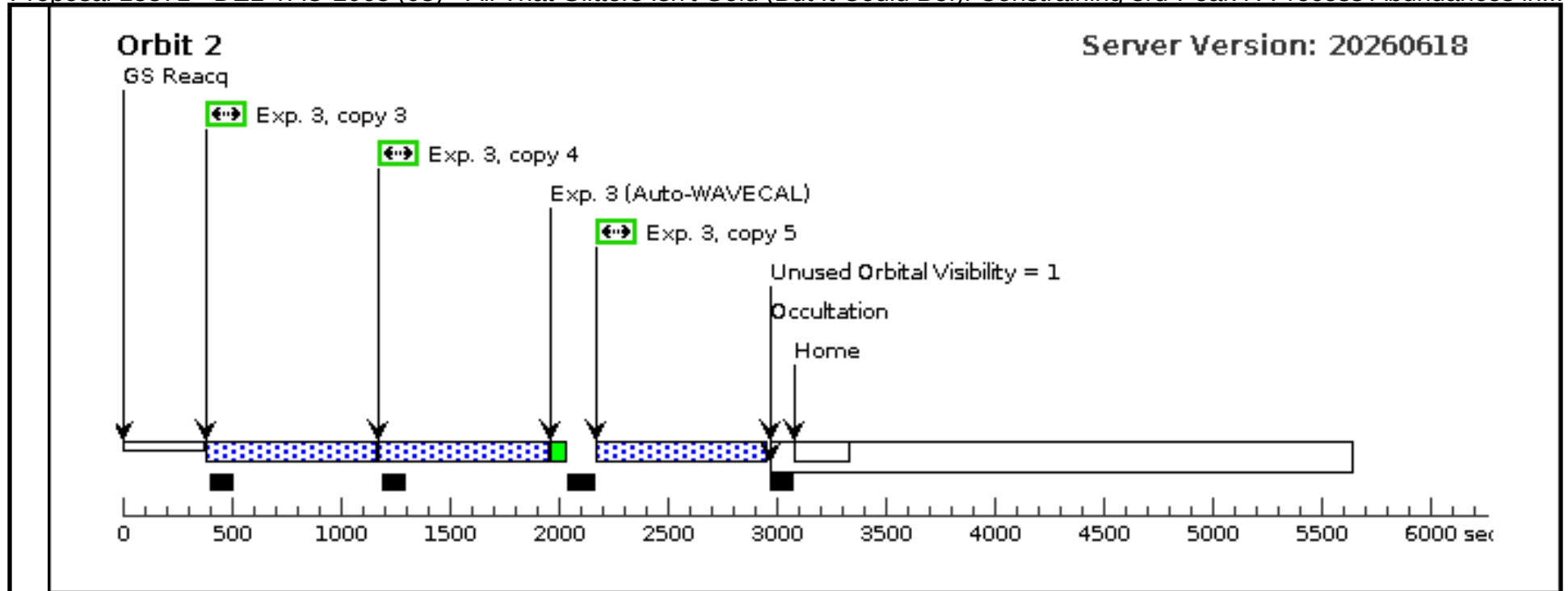




# Proposal 18371 - DEL-TAU-2063 (08) - All That Glitters Isn't Gold (But It Could Be!): Constraining 3rd-Peak R-Process Abundances in...

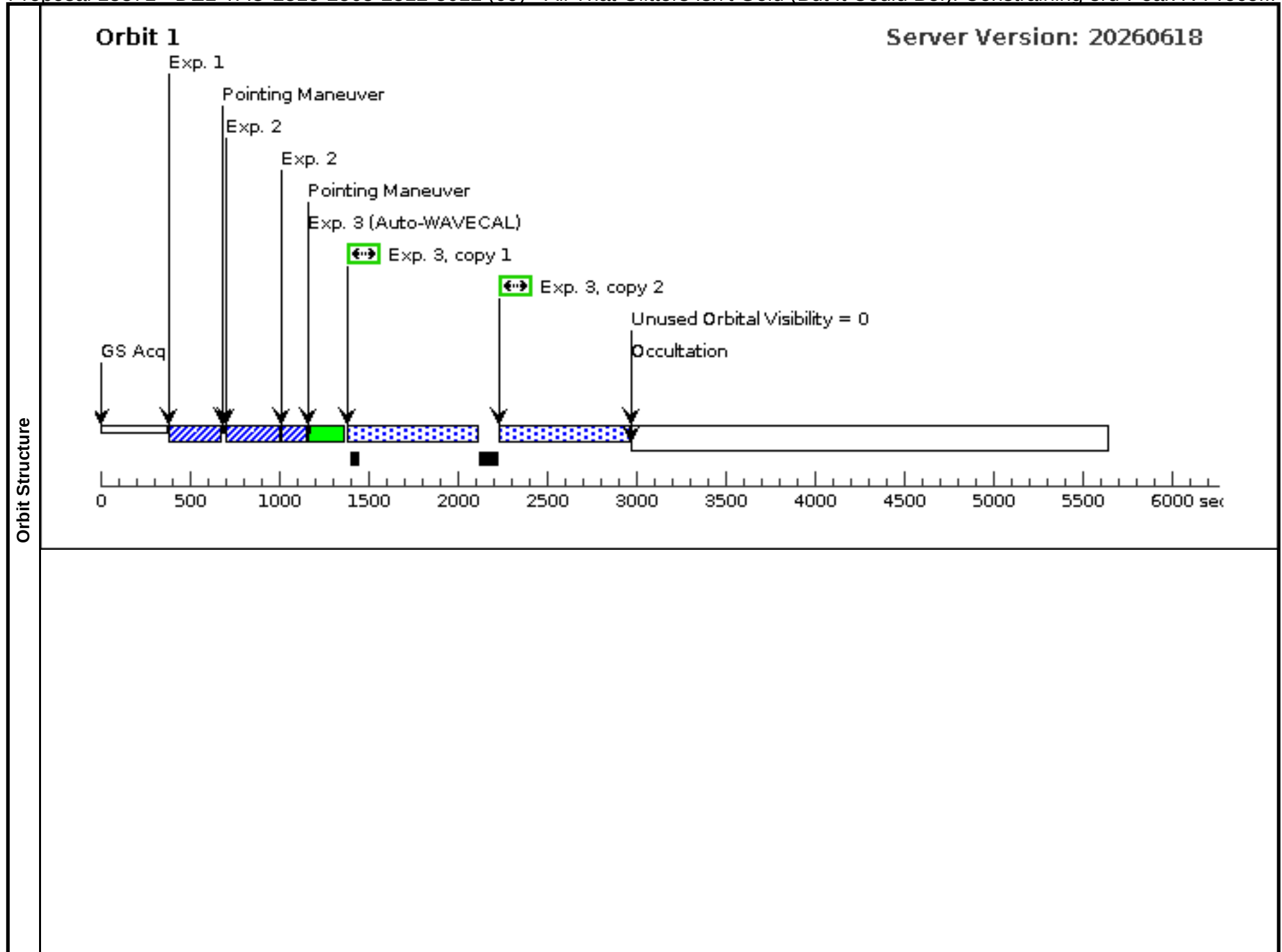
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                                                                                  |                                                      |       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------|------------------------------------------------------|-------|
| Visit         | Proposal 18371, DEL-TAU-2063 (08), implementation                                                                                                                                                                                                                                               |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                                                                                  | Wed Aug 19 14:01:05 GMT 2026                         |       |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                                                                                  |                                                      |       |
|               | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                                                                                  |                                                      |       |
|               | Special Requirements: (none)                                                                                                                                                                                                                                                                    |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                                                                                  |                                                      |       |
| Fixed Targets | #                                                                                                                                                                                                                                                                                               | Name                        | Target Coordinates                                                                 | Targ. Coord. Corrections                                                                                                             |                 | Fluxes                                                                                           |               | Miscellaneous                                                                    |                                                      |       |
|               | (4)                                                                                                                                                                                                                                                                                             | -DEL-TAU                    | RA: 04 22 56.0952 (65.7337300d)<br>Dec: +17 32 33.05 (17.54251d)<br>Equinox: J2000 | Proper Motion RA: 106.212 mas/yr<br>Proper Motion Dec: -27.691999912349274 mas/yr<br>Parallax: 0.0203092"<br>Epoch of Position: 2000 |                 | V=3.76<br>B: 4.74 (Johnson) G: 3.52 BP: 4.06 RP: 2.88 (Gaia DR3) J: 2.15 H: 1.58 K: 1.59 (2MASS) |               | Reference Frame: ICRS                                                            |                                                      |       |
|               | Comments: This object was generated by the target selector and retrieved from the SIMBAD database.                                                                                                                                                                                              |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                                                                                  |                                                      |       |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                                                                                  |                                                      |       |
|               | Category=STAR<br>Description=[K III-I]<br>Extended=NO                                                                                                                                                                                                                                           |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                                                                                  |                                                      |       |
| Exposures     | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)             | Target                                                                             | Config,Mode,Aperture                                                                                                                 | Spectral Els.   | Opt. Params.                                                                                     | Special Reqs. | Groups                                                                           | Exp. Time (Total)/[Actual Dur.]                      | Orbit |
|               | 1                                                                                                                                                                                                                                                                                               | ACQ (STIS.ta.236 6976)      | (4) -DEL-TAU                                                                       | STIS/CCD, ACQ, F25ND5                                                                                                                | MIRROR          |                                                                                                  |               |                                                                                  | 0.3 Secs (0.3 Secs)                                  |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                                                                                  | [==>]                                                | [1]   |
|               | 2                                                                                                                                                                                                                                                                                               | ACQ/PEAK (STIS.ta.236 6979) | (4) -DEL-TAU                                                                       | STIS/CCD, ACQ/PEAK, 0.3X0.05ND                                                                                                       | MIRROR          |                                                                                                  |               |                                                                                  | 0.1 Secs (0.1 Secs)                                  |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                                                                                  | [==>]                                                | [1]   |
|               | 3                                                                                                                                                                                                                                                                                               | 2063 (2363436)              | (4) -DEL-TAU                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                       | E230H<br>2063 A |                                                                                                  |               |                                                                                  | 500 Secs X 5 (3726 Secs)                             |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                                                                                  | [==>714.0 Secs (Copy 1)]<br>[==>714.0 Secs (Copy 2)] | [1]   |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               | [==>766.0 Secs (Copy 3)]<br>[==>766.0 Secs (Copy 4)]<br>[==>766.0 Secs (Copy 5)] | [2]                                                  |       |





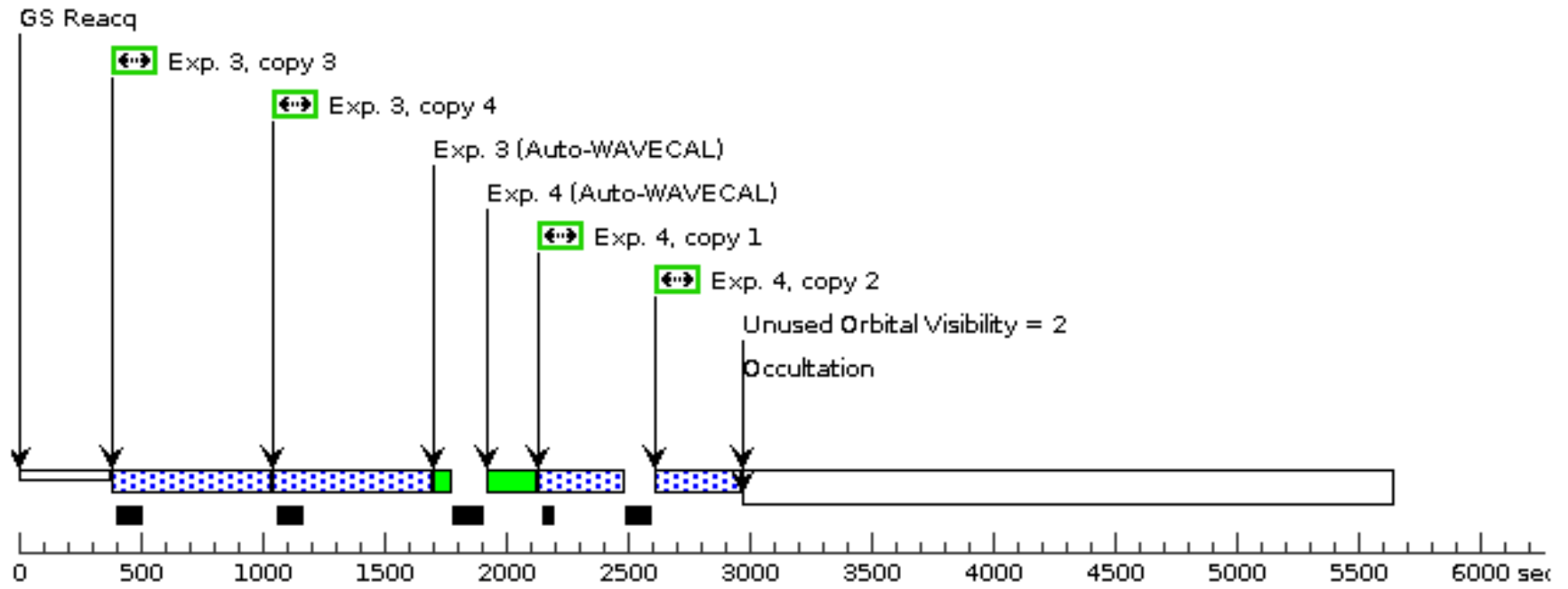
# Proposal 18371 - DEL-TAU-2313-2563-2812-3012 (09) - All That Glitters Isn't Gold (But It Could Be!): Constraining 3rd-Peak R-Proce...

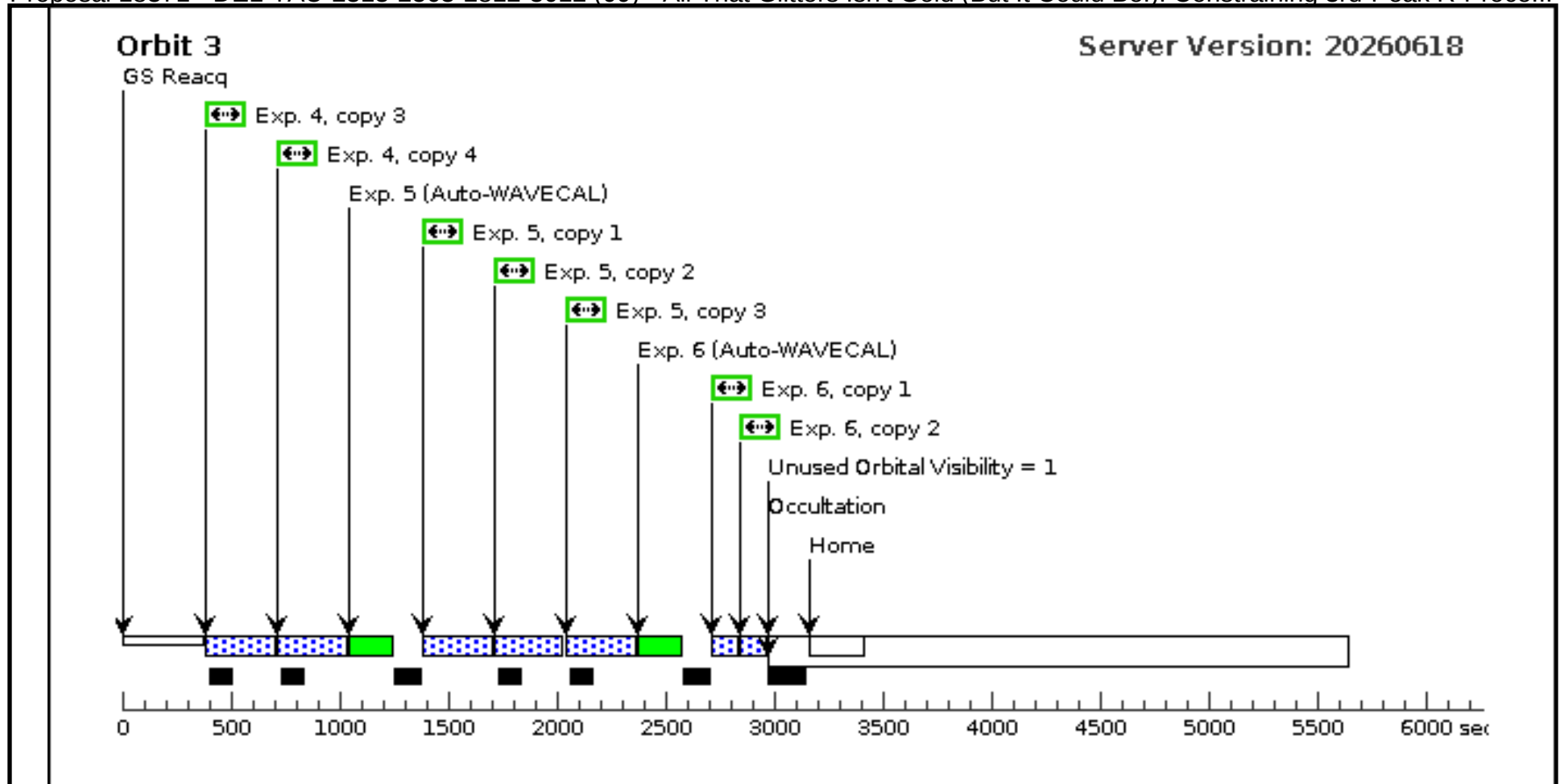
|               |                                                                                                                                                                                                                                                                                                                                                          |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                       |                                                                                                                                          |            |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------------------|---------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Visit         | Proposal 18371, DEL-TAU-2313-2563-2812-3012 (09), implementation                                                                                                                                                                                                                                                                                         |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                       | Wed Aug 19 14:01:05 GMT 2026                                                                                                             |            |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                                                                                        |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                       |                                                                                                                                          |            |
|               | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                                                                                                                                                                                                                                          |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                       |                                                                                                                                          |            |
|               | Special Requirements: (none)                                                                                                                                                                                                                                                                                                                             |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                       |                                                                                                                                          |            |
| Fixed Targets | #                                                                                                                                                                                                                                                                                                                                                        | Name                        | Target Coordinates                                                                 | Targ. Coord. Corrections                                                                                                             |                 | Fluxes                                                                                           |               | Miscellaneous         |                                                                                                                                          |            |
|               | (4)                                                                                                                                                                                                                                                                                                                                                      | -DEL-TAU                    | RA: 04 22 56.0952 (65.7337300d)<br>Dec: +17 32 33.05 (17.54251d)<br>Equinox: J2000 | Proper Motion RA: 106.212 mas/yr<br>Proper Motion Dec: -27.691999912349274 mas/yr<br>Parallax: 0.0203092"<br>Epoch of Position: 2000 |                 | V=3.76<br>B: 4.74 (Johnson) G: 3.52 BP: 4.06 RP: 2.88 (Gaia DR3) J: 2.15 H: 1.58 K: 1.59 (2MASS) |               | Reference Frame: ICRS |                                                                                                                                          |            |
|               | Comments: This object was generated by the target selector and retrieved from the SIMBAD database.                                                                                                                                                                                                                                                       |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                       |                                                                                                                                          |            |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.<br>Category=STAR<br>Description=[K III-I]<br>Extended=NO |                             |                                                                                    |                                                                                                                                      |                 |                                                                                                  |               |                       |                                                                                                                                          |            |
| Exposures     | #                                                                                                                                                                                                                                                                                                                                                        | Label (ETC Run)             | Target                                                                             | Config,Mode,Aperture                                                                                                                 | Spectral Els.   | Opt. Params.                                                                                     | Special Reqs. | Groups                | Exp. Time (Total)/[Actual Dur.]                                                                                                          | Orbit      |
|               | 1                                                                                                                                                                                                                                                                                                                                                        | ACQ (STIS.ta.236 6976)      | (4) -DEL-TAU                                                                       | STIS/CCD, ACQ, F25ND5                                                                                                                | MIRROR          |                                                                                                  |               |                       | 0.3 Secs (0.3 Secs)<br>[==>]                                                                                                             | [1]        |
|               | 2                                                                                                                                                                                                                                                                                                                                                        | ACQ/PEAK (STIS.ta.236 6979) | (4) -DEL-TAU                                                                       | STIS/CCD, ACQ/PEAK, 0.3X0.05ND                                                                                                       | MIRROR          |                                                                                                  |               |                       | 0.1 Secs (0.1 Secs)<br>[==>]                                                                                                             | [1]        |
|               | 3                                                                                                                                                                                                                                                                                                                                                        | 2313 (STIS.sp.23 66954)     | (4) -DEL-TAU                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                       | E230H<br>2313 A |                                                                                                  |               |                       | 600 Secs X 4 (2702 Secs)<br>[==>714.0 Secs (Copy 1)]<br>[==>714.0 Secs (Copy 2)]<br>[==>637.0 Secs (Copy 3)]<br>[==>637.0 Secs (Copy 4)] | [1]<br>[2] |
|               | 4                                                                                                                                                                                                                                                                                                                                                        | 2563 (STIS.sp.23 66949)     | (4) -DEL-TAU                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                       | E230H<br>2563 A |                                                                                                  |               |                       | 300 Secs X 4 (1280 Secs)<br>[==>337.0 Secs (Copy 1)]<br>[==>337.0 Secs (Copy 2)]<br>[==>303.0 Secs (Copy 3)]<br>[==>303.0 Secs (Copy 4)] | [2]<br>[3] |
|               | 5                                                                                                                                                                                                                                                                                                                                                        | 2812 (STIS.sp.23 66948)     | (4) -DEL-TAU                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                       | E230H<br>2812 A |                                                                                                  |               |                       | 300 Secs X 3 (909 Secs)<br>[==>303.0 Secs (Copy 1)]<br>[==>303.0 Secs (Copy 2)]<br>[==>303.0 Secs (Copy 3)]                              | [3]        |
|               | 6                                                                                                                                                                                                                                                                                                                                                        | 3012 (STIS.sp.23 66946)     | (4) -DEL-TAU                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.09                                                                                                       | E230H<br>3012 A |                                                                                                  |               |                       | 100 Secs X 2 (206 Secs)<br>[==>103.0 Secs (Copy 1)]<br>[==>103.0 Secs (Copy 2)]                                                          | [3]        |



## Orbit 2

Server Version: 20260618



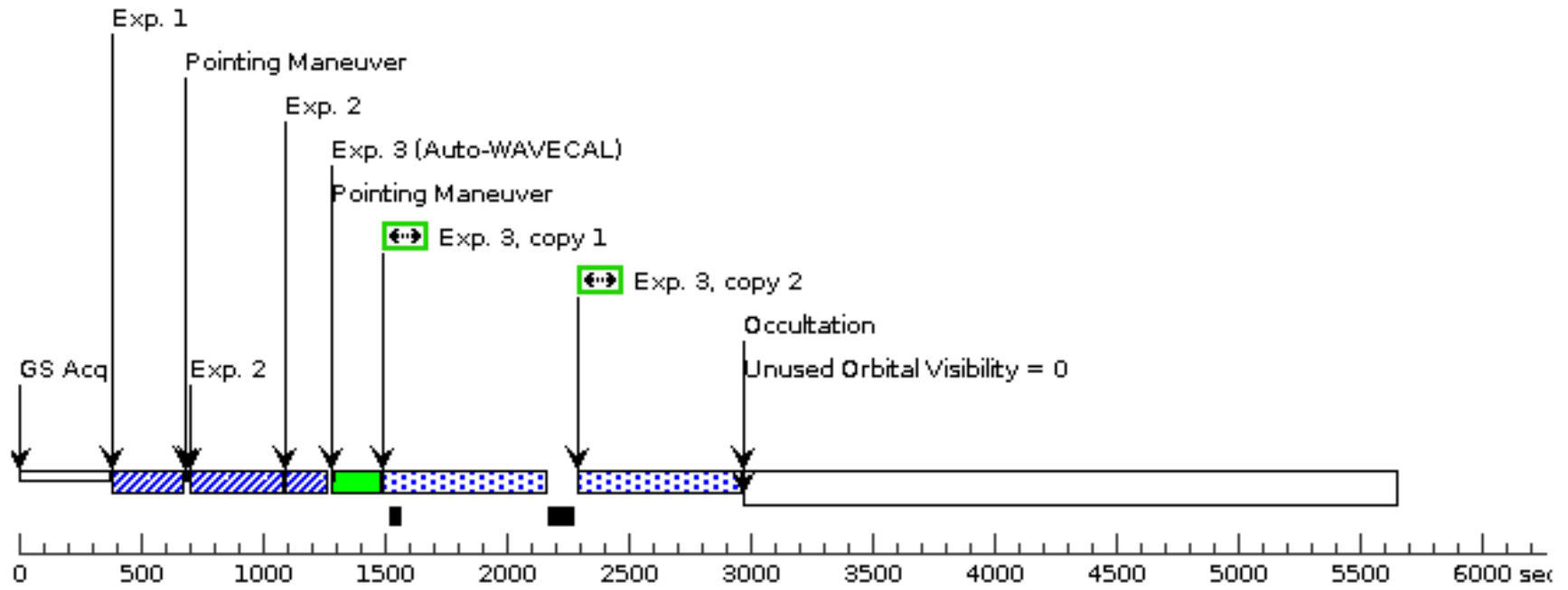


# Proposal 18371 - HD-28258-2269-1 (12) - All That Glitters Isn't Gold (But It Could Be!): Constraining 3rd-Peak R-Process Abundances...

|               |                                                                                                                                                                                                                                                                                                 |                         |                                                                                  |                                                                                                                                                |                 |                                                                                                      |               |                       |                                                                                  |         |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------|---------------|-----------------------|----------------------------------------------------------------------------------|---------|
| Visit         | Proposal 18371, HD-28258-2269-1 (12), implementation                                                                                                                                                                                                                                            |                         |                                                                                  |                                                                                                                                                |                 |                                                                                                      |               |                       | Wed Aug 19 14:01:05 GMT 2026                                                     |         |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                         |                                                                                  |                                                                                                                                                |                 |                                                                                                      |               |                       |                                                                                  |         |
|               | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                                                                                                                                                                                 |                         |                                                                                  |                                                                                                                                                |                 |                                                                                                      |               |                       |                                                                                  |         |
|               | Special Requirements: (none)                                                                                                                                                                                                                                                                    |                         |                                                                                  |                                                                                                                                                |                 |                                                                                                      |               |                       |                                                                                  |         |
| Fixed Targets | #                                                                                                                                                                                                                                                                                               | Name                    | Target Coordinates                                                               | Targ. Coord. Corrections                                                                                                                       |                 | Fluxes                                                                                               |               | Miscellaneous         |                                                                                  |         |
|               | (7)                                                                                                                                                                                                                                                                                             | HD-28258                | RA: 04 28 4.4335 (67.0184729d)<br>Dec: +13 52 4.58 (13.86794d)<br>Equinox: J2000 | Proper Motion RA: 102.269 mas/yr<br>Proper Motion Dec: -18.990999978996115 mas/yr<br>Parallax: 0.02087559999999998"<br>Epoch of Position: 2000 |                 | V=9.032<br>B: 9.86 (Johnson) G: 8.84 BP: 9.25 RP: 8.26 (Gaia DR3) J: 7.51<br>H: 7.14 K: 7.00 (2MASS) |               | Reference Frame: ICRS |                                                                                  |         |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                         |                                                                                  |                                                                                                                                                |                 |                                                                                                      |               |                       |                                                                                  |         |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                         |                                                                                  |                                                                                                                                                |                 |                                                                                                      |               |                       |                                                                                  |         |
|               | Category=STAR<br>Description=[K V-IV]<br>Extended=NO                                                                                                                                                                                                                                            |                         |                                                                                  |                                                                                                                                                |                 |                                                                                                      |               |                       |                                                                                  |         |
| Exposures     | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)         | Target                                                                           | Config,Mode,Aperture                                                                                                                           | Spectral Els.   | Opt. Params.                                                                                         | Special Reqs. | Groups                | Exp. Time (Total)/[Actual Dur.]                                                  | Orbit   |
|               | 1                                                                                                                                                                                                                                                                                               | ACQ (STIS.ta.236 6981)  | (7) HD-28258                                                                     | STIS/CCD, ACQ, F25ND3                                                                                                                          | MIRROR          |                                                                                                      |               |                       | 0.3 Secs (0.3 Secs)<br>[==>]                                                     | <br>[1] |
|               | 2                                                                                                                                                                                                                                                                                               | ACQ/PEAK (2362710)      | (7) HD-28258                                                                     | STIS/CCD, ACQ/PEAK, 0.3X0.05ND                                                                                                                 | MIRROR          |                                                                                                      |               |                       | 5 Secs (5 Secs)<br>[==>]                                                         | <br>[1] |
|               | 3                                                                                                                                                                                                                                                                                               | 2269 (STIS.sp.23 66966) | (7) HD-28258                                                                     | STIS/NUV-MAMA, ACCUM, 0.2X0.2                                                                                                                  | E230M<br>2269 A |                                                                                                      |               |                       | 600 Secs X 4 (3630 Secs)<br>[==>655.0 Secs (Copy 1)]<br>[==>655.0 Secs (Copy 2)] | <br>[1] |
|               |                                                                                                                                                                                                                                                                                                 |                         |                                                                                  |                                                                                                                                                |                 |                                                                                                      |               |                       | [==>1160.0 Secs (Copy 3)]<br>[==>1160.0 Secs (Copy 4)]                           | <br>[2] |
|               |                                                                                                                                                                                                                                                                                                 |                         |                                                                                  |                                                                                                                                                |                 |                                                                                                      |               |                       |                                                                                  |         |
|               |                                                                                                                                                                                                                                                                                                 |                         |                                                                                  |                                                                                                                                                |                 |                                                                                                      |               |                       |                                                                                  |         |

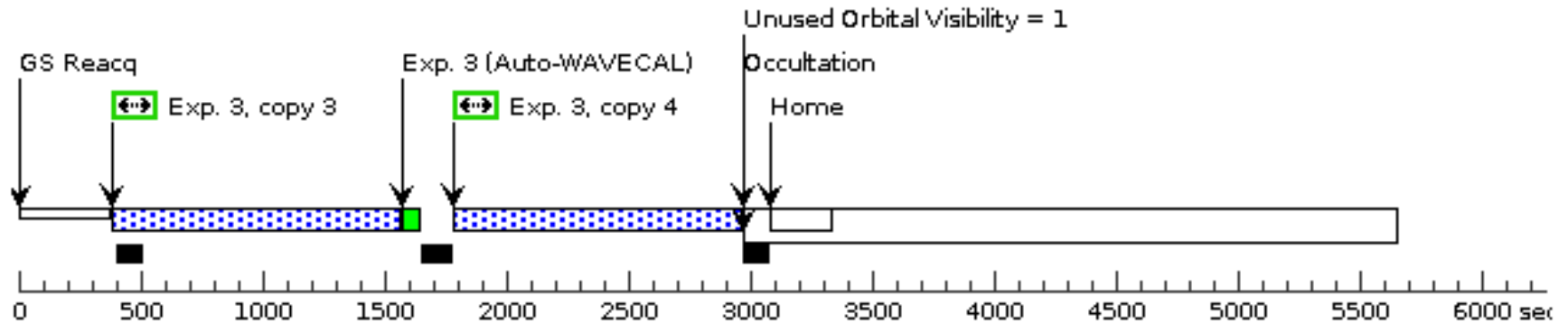
### Orbit 1

Server Version: 20260618



### Orbit 2

Server Version: 20260618

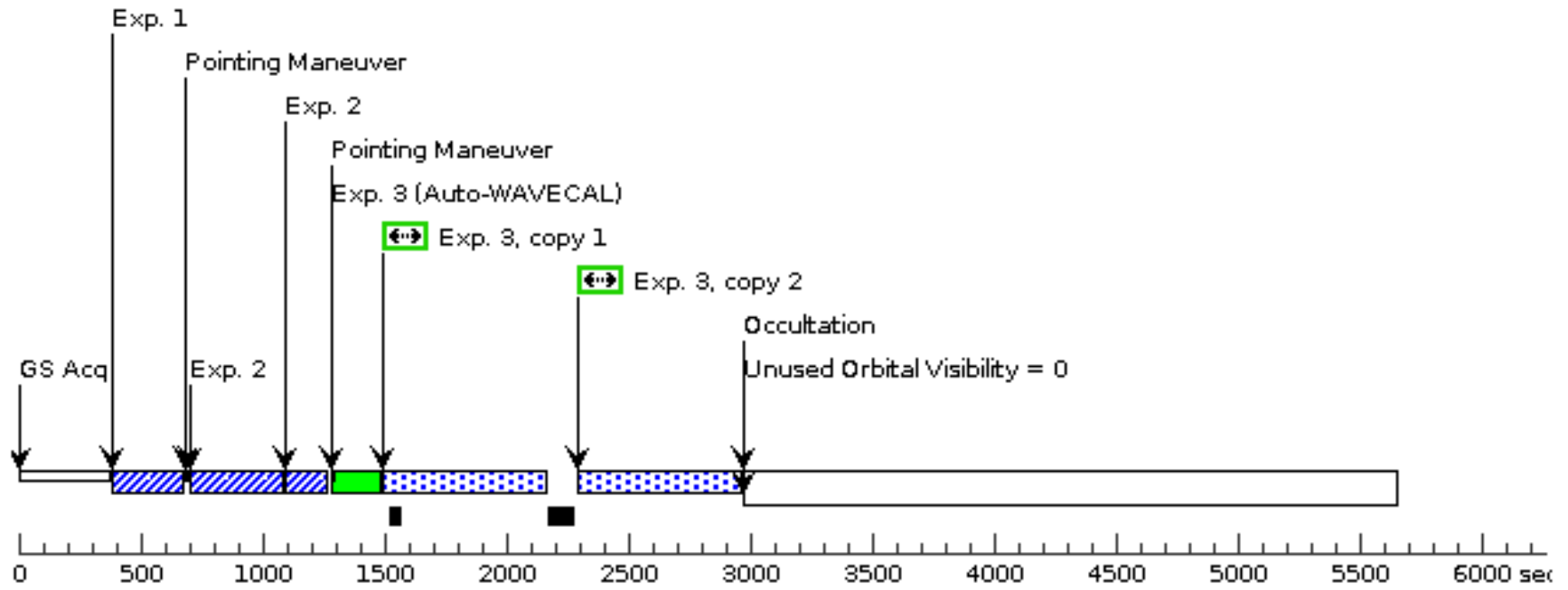


# Proposal 18371 - HD-28258-2707-1 (14) - All That Glitters Isn't Gold (But It Could Be!): Constraining 3rd-Peak R-Process Abundances...

|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                  |                                                                                                                                                 |                 |                                                                                                      |               |                       |                                                        |  |                              |  |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------|---------------|-----------------------|--------------------------------------------------------|--|------------------------------|--|
| Visit         | Proposal 18371, HD-28258-2707-1 (14), implementation                                                                                                                                                                                                                                            |                             |                                                                                  |                                                                                                                                                 |                 |                                                                                                      |               |                       |                                                        |  | Wed Aug 19 14:01:05 GMT 2026 |  |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                             |                                                                                  |                                                                                                                                                 |                 |                                                                                                      |               |                       |                                                        |  |                              |  |
|               | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                                                                                                                                                                                 |                             |                                                                                  |                                                                                                                                                 |                 |                                                                                                      |               |                       |                                                        |  |                              |  |
|               | Special Requirements: (none)                                                                                                                                                                                                                                                                    |                             |                                                                                  |                                                                                                                                                 |                 |                                                                                                      |               |                       |                                                        |  |                              |  |
| Fixed Targets | #                                                                                                                                                                                                                                                                                               | Name                        | Target Coordinates                                                               | Targ. Coord. Corrections                                                                                                                        |                 | Fluxes                                                                                               |               | Miscellaneous         |                                                        |  |                              |  |
|               | (7)                                                                                                                                                                                                                                                                                             | HD-28258                    | RA: 04 28 4.4335 (67.0184729d)<br>Dec: +13 52 4.58 (13.86794d)<br>Equinox: J2000 | Proper Motion RA: 102.269 mas/yr<br>Proper Motion Dec: -18.990999978996115 mas/yr<br>Parallax: 0.020875599999999998"<br>Epoch of Position: 2000 |                 | V=9.032<br>B: 9.86 (Johnson) G: 8.84 BP: 9.25 RP: 8.26 (Gaia DR3) J: 7.51<br>H: 7.14 K: 7.00 (2MASS) |               | Reference Frame: ICRS |                                                        |  |                              |  |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                             |                                                                                  |                                                                                                                                                 |                 |                                                                                                      |               |                       |                                                        |  |                              |  |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                             |                                                                                  |                                                                                                                                                 |                 |                                                                                                      |               |                       |                                                        |  |                              |  |
|               | Category=STAR                                                                                                                                                                                                                                                                                   |                             |                                                                                  |                                                                                                                                                 |                 |                                                                                                      |               |                       |                                                        |  |                              |  |
|               | Description=[K V-IV]<br>Extended=NO                                                                                                                                                                                                                                                             |                             |                                                                                  |                                                                                                                                                 |                 |                                                                                                      |               |                       |                                                        |  |                              |  |
| Exposures     | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)             | Target                                                                           | Config,Mode,Aperture                                                                                                                            | Spectral Els.   | Opt. Params.                                                                                         | Special Reqs. | Groups                | Exp. Time (Total)/[Actual Dur.]                        |  | Orbit                        |  |
|               | 1                                                                                                                                                                                                                                                                                               | ACQ (STIS.ta.236 6981)      | (7) HD-28258                                                                     | STIS/CCD, ACQ, F25ND3                                                                                                                           | MIRROR          |                                                                                                      |               |                       | 0.3 Secs (0.3 Secs)                                    |  |                              |  |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                  |                                                                                                                                                 |                 |                                                                                                      |               |                       | [==>]                                                  |  | [1]                          |  |
|               | 2                                                                                                                                                                                                                                                                                               | ACQ/PEAK (STIS.ta.236 6986) | (7) HD-28258                                                                     | STIS/CCD, ACQ/PEAK, 0.3X0.05ND                                                                                                                  | MIRROR          |                                                                                                      |               |                       | 5 Secs (5 Secs)                                        |  |                              |  |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                  |                                                                                                                                                 |                 |                                                                                                      |               |                       | [==>]                                                  |  | [1]                          |  |
|               | 3                                                                                                                                                                                                                                                                                               | 2707 (STIS.sp.23 66968)     | (7) HD-28258                                                                     | STIS/NUV-MAMA, ACCUM, 0.2X0.2                                                                                                                   | E230M<br>2707 A |                                                                                                      |               |                       | 600 Secs X 4 (3630 Secs)                               |  |                              |  |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                  |                                                                                                                                                 |                 |                                                                                                      |               |                       | [==>655.0 Secs (Copy 1)]<br>[==>655.0 Secs (Copy 2)]   |  | [1]                          |  |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                  |                                                                                                                                                 |                 |                                                                                                      |               |                       | [==>1160.0 Secs (Copy 3)]<br>[==>1160.0 Secs (Copy 4)] |  | [2]                          |  |

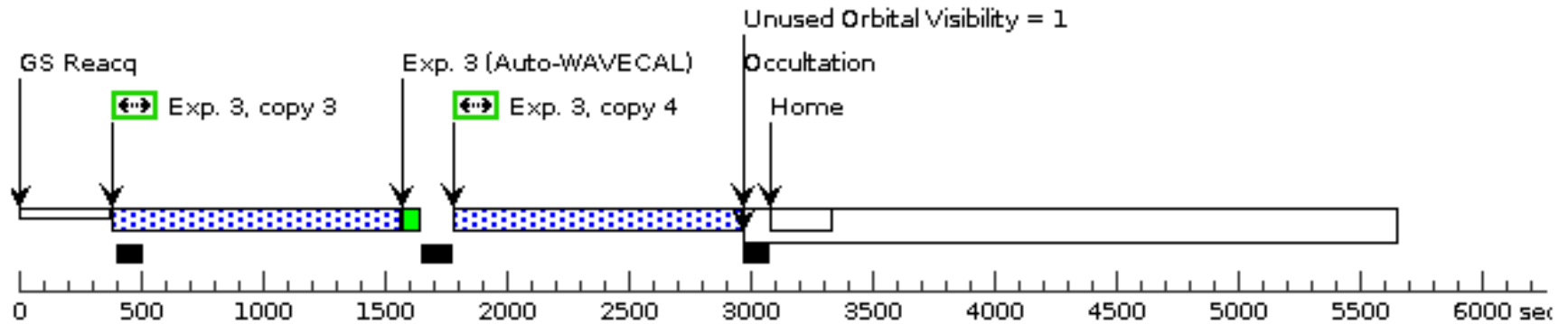
### Orbit 1

Server Version: 20260618



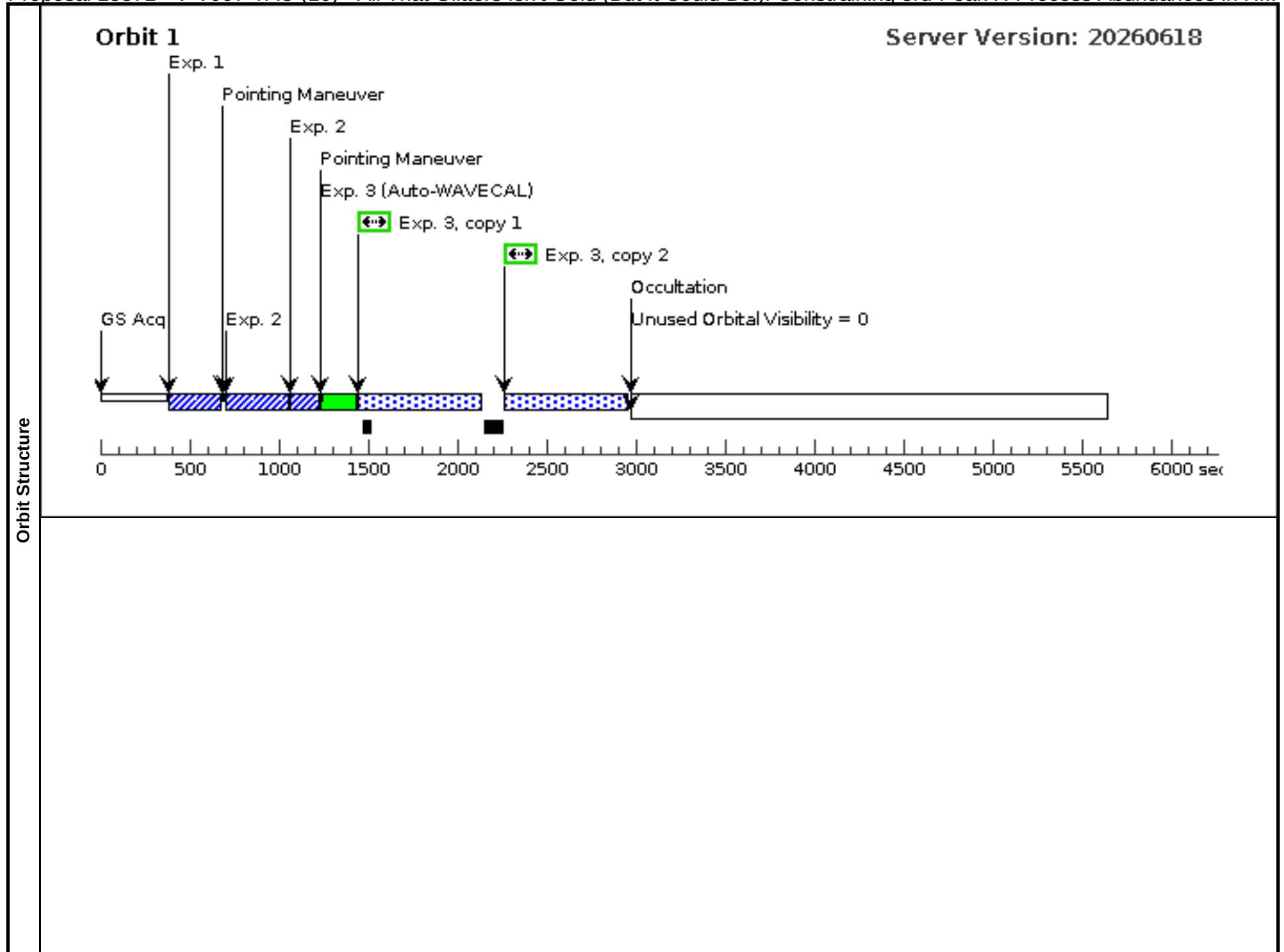
### Orbit 2

Server Version: 20260618



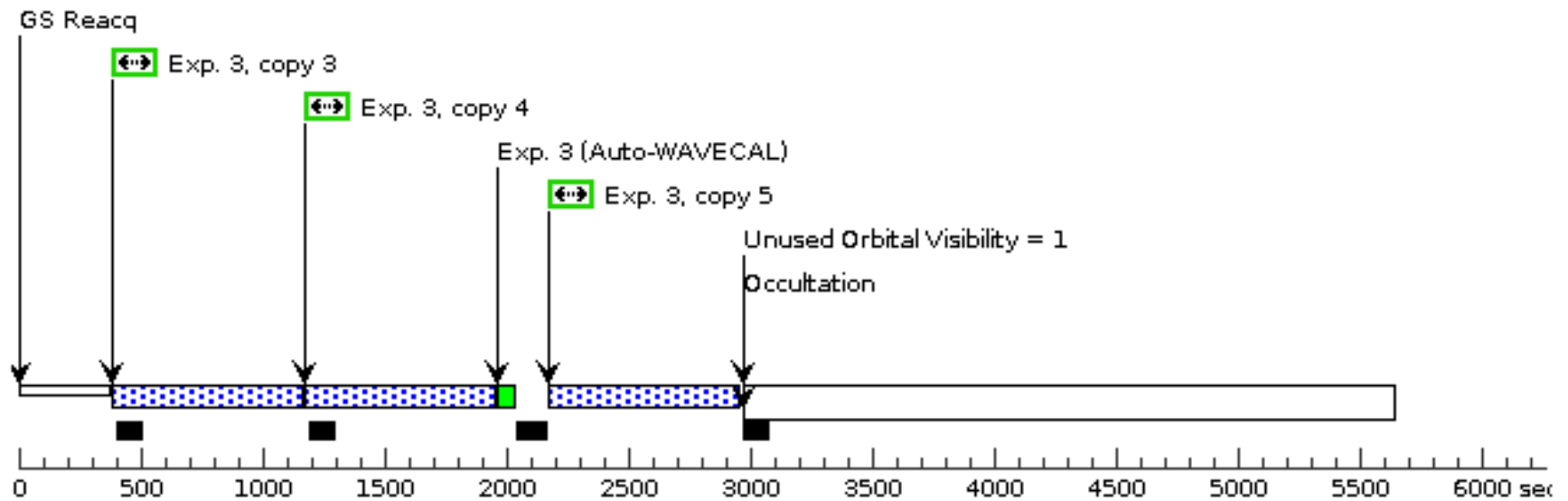
# Proposal 18371 - V-V997-TAU (16) - All That Glitters Isn't Gold (But It Could Be!): Constraining 3rd-Peak R-Process Abundances in H...

|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          |                                 |       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------------------|---------------|--------------------------|---------------------------------|-------|
| Visit         | Proposal 18371, V-V997-TAU (16), implementation                                                                                                                                                                                                                                                 |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          | Wed Aug 19 14:01:05 GMT 2026    |       |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          |                                 |       |
|               | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                                                                                                                                                                                 |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          |                                 |       |
|               | Special Requirements: (none)                                                                                                                                                                                                                                                                    |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          |                                 |       |
| Fixed Targets | #                                                                                                                                                                                                                                                                                               | Name                        | Target Coordinates                                                                | Targ. Coord. Corrections                                                                                                             |                 | Fluxes                                                                                               |               | Miscellaneous            |                                 |       |
|               | (8)                                                                                                                                                                                                                                                                                             | V-V997-TAU                  | RA: 04 32 59.4513 (68.2477138d)<br>Dec: +15 49 8.28 (15.81897d)<br>Equinox: J2000 | Proper Motion RA: 100.376 mas/yr<br>Proper Motion Dec: -25.473999971836747 mas/yr<br>Parallax: 0.0213573"<br>Epoch of Position: 2000 |                 | V=8.641<br>B: 9.40 (Johnson) G: 8.48 BP: 8.84 RP: 7.94 (Gaia DR3) J: 7.32<br>H: 7.02 K: 6.94 (2MASS) |               | Reference Frame: ICRS    |                                 |       |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          |                                 |       |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          |                                 |       |
|               | Category=STAR<br>Description=[K V-IV]<br>Extended=NO                                                                                                                                                                                                                                            |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          |                                 |       |
| Exposures     | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)             | Target                                                                            | Config,Mode,Aperture                                                                                                                 | Spectral Els.   | Opt. Params.                                                                                         | Special Reqs. | Groups                   | Exp. Time (Total)/[Actual Dur.] | Orbit |
|               | 1                                                                                                                                                                                                                                                                                               | ACQ (STIS.ta.236 6982)      | (8) V-V997-TAU                                                                    | STIS/CCD, ACQ, F25ND3                                                                                                                | MIRROR          |                                                                                                      |               |                          | 0.2 Secs (0.2 Secs)             |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          | [==>]                           | [1]   |
|               | 2                                                                                                                                                                                                                                                                                               | ACQ/PEAK (STIS.ta.236 6985) | (8) V-V997-TAU                                                                    | STIS/CCD, ACQ/PEAK, 0.3X0.05ND                                                                                                       | MIRROR          |                                                                                                      |               |                          | 3 Secs (3 Secs)                 |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          | [==>]                           | [1]   |
|               | 3                                                                                                                                                                                                                                                                                               | 2269 (STIS.sp.23 66970)     | (8) V-V997-TAU                                                                    | STIS/NUV-MAMA, ACCUM, 0.2X0.2                                                                                                        | E230M<br>2269 A |                                                                                                      |               |                          | 600 Secs X 5 (3658 Secs)        |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          | [==>680.0 Secs (Copy 1)]        |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          | [==>680.0 Secs (Copy 2)]        | [1]   |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          | [==>766.0 Secs (Copy 3)]        |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          | [==>766.0 Secs (Copy 4)]        | [2]   |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               | [==>766.0 Secs (Copy 5)] |                                 |       |
| 4             | 2707 (STIS.sp.23 66972)                                                                                                                                                                                                                                                                         | (8) V-V997-TAU              | STIS/NUV-MAMA, ACCUM, 0.2X0.2                                                     | E230M<br>2707 A                                                                                                                      |                 |                                                                                                      |               |                          | 600 Secs X 3 (2403 Secs)        |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          | [==>801.0 Secs (Copy 1)]        |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          | [==>801.0 Secs (Copy 2)]        |       |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                   |                                                                                                                                      |                 |                                                                                                      |               |                          | [==>801.0 Secs (Copy 3)]        | [3]   |



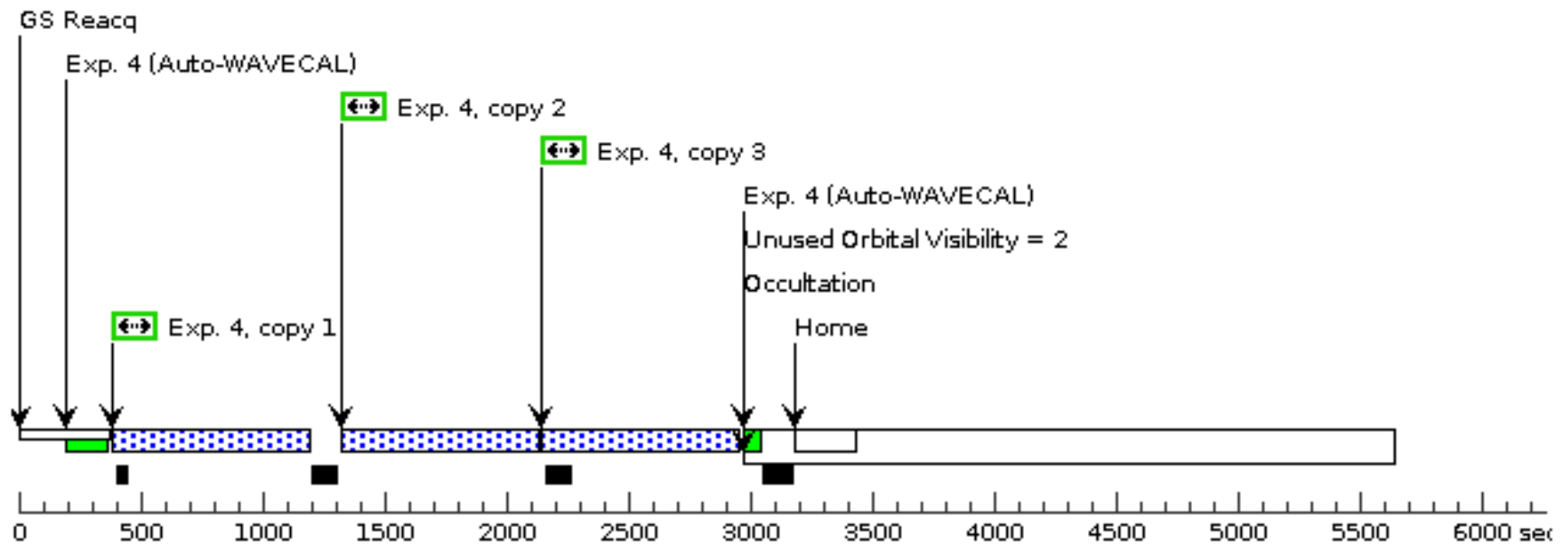
### Orbit 2

Server Version: 20260618



### Orbit 3

Server Version: 20260618



# Proposal 18371 - HD-28099 (17) - All That Glitters Isn't Gold (But It Could Be!): Constraining 3rd-Peak R-Process Abundances in Hya...

|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        |                                 |  |                              |  |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|--------------------------------------------------------------------------------------------------|--------|---------------------------------|--|------------------------------|--|
| Visit         | Proposal 18371, HD-28099 (17), implementation                                                                                                                                                                                                                                                   |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        |                                 |  | Wed Aug 19 14:01:05 GMT 2026 |  |
|               | Diagnostic Status: No Diagnostics                                                                                                                                                                                                                                                               |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        |                                 |  |                              |  |
|               | Scientific Instruments: STIS/NUV-MAMA, STIS/CCD                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        |                                 |  |                              |  |
|               | Special Requirements: (none)                                                                                                                                                                                                                                                                    |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        |                                 |  |                              |  |
| Fixed Targets | #                                                                                                                                                                                                                                                                                               | Name                        | Target Coordinates                                                                 | Targ. Coord. Corrections                                                                                                            |                 |              | Fluxes                                                                                           |        | Miscellaneous                   |  |                              |  |
|               | (9)                                                                                                                                                                                                                                                                                             | HD-28099                    | RA: 04 26 40.1217 (66.6671738d)<br>Dec: +16 44 48.89 (16.74691d)<br>Equinox: J2000 | Proper Motion RA: 107.472 mas/yr<br>Proper Motion Dec: -31.53099996779929 mas/yr<br>Parallax: 0.0218521"<br>Epoch of Position: 2000 |                 |              | V=8.12<br>B: 8.78 (Johnson) G: 7.95 BP: 8.28 RP: 7.46 (Gaia DR3) J: 6.89 H: 6.64 K: 6.55 (2MASS) |        | Reference Frame: ICRS           |  |                              |  |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.                                                                                                                                                                                               |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        |                                 |  |                              |  |
|               | SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        |                                 |  |                              |  |
|               | Category=STAR<br>Description=[K V-IV]<br>Extended=NO                                                                                                                                                                                                                                            |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        |                                 |  |                              |  |
| Exposures     | #                                                                                                                                                                                                                                                                                               | Label (ETC Run)             | Target                                                                             | Config,Mode,Aperture                                                                                                                | Spectral Els.   | Opt. Params. | Special Reqs.                                                                                    | Groups | Exp. Time (Total)/[Actual Dur.] |  | Orbit                        |  |
|               | 1                                                                                                                                                                                                                                                                                               | ACQ (STIS.ta.236 6983)      | (9) HD-28099                                                                       | STIS/CCD, ACQ, F25ND3                                                                                                               | MIRROR          |              |                                                                                                  |        | 0.2 Secs (0.2 Secs)             |  |                              |  |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        | [==>]                           |  | [1]                          |  |
|               | 2                                                                                                                                                                                                                                                                                               | ACQ/PEAK (STIS.ta.236 6984) | (9) HD-28099                                                                       | STIS/CCD, ACQ/PEAK, 0.3X0.05ND                                                                                                      | MIRROR          |              |                                                                                                  |        | 1.8 Secs (1.8 Secs)             |  |                              |  |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        | [==>]                           |  | [1]                          |  |
|               | 3                                                                                                                                                                                                                                                                                               | 2269 (STIS.sp.23 66973)     | (9) HD-28099                                                                       | STIS/NUV-MAMA, ACCUM, 0.2X0.2                                                                                                       | E230M<br>2269 A |              |                                                                                                  |        | 600 Secs X 4 (2798 Secs)        |  |                              |  |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        | [==>694.0 Secs (Copy 1)]        |  |                              |  |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        | [==>694.0 Secs (Copy 2)]        |  | [1]                          |  |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        | [==>705.0 Secs (Copy 3)]        |  |                              |  |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        | [==>705.0 Secs (Copy 4)]        |  | [2]                          |  |
| 4             | 2707 (STIS.sp.23 66974)                                                                                                                                                                                                                                                                         | (9) HD-28099                | STIS/NUV-MAMA, ACCUM, 0.2X0.2                                                      | E230M<br>2707 A                                                                                                                     |                 |              |                                                                                                  |        | 600 Secs (705 Secs)             |  |                              |  |
|               |                                                                                                                                                                                                                                                                                                 |                             |                                                                                    |                                                                                                                                     |                 |              |                                                                                                  |        | [==>705.0 Secs ]                |  | [2]                          |  |

## Orbit 1

Server Version: 20260618

