



## 17135 - Imaging interior to 0.2 arcsec with the STIS coronagraph

Cycle: 30, Proposal Category: GO

(Calibration)

(Availability Mode: SUPPORTED)

### INVESTIGATORS

| <i>Name</i>                                    | <i>Institution</i>                             |
|--|--|
| <b>Dr. Bin Ren (PI) (ESA Member) (Contact)</b> | <b>Observatoire de la Cote d'Azur</b>          |
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| Dr. Kevin Fogarty (CoI)                        | NASA Ames Research Center                      |
| Dr. Felipe Braga-Ribas (CoI)                   | Universidade Tecnologica Federal do Parana     |

### VISITS

| <i>Visit</i> | <i>Targets used in Visit</i> | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 01           | (1) HR-4796A                 | STIS/CCD                            | 1                  | 03-Jul-2023 11:00:24.0        | yes                           |
| 02           | (1) HR-4796A                 | STIS/CCD                            | 1                  | 03-Jul-2023 11:00:30.0        | yes                           |
| 03           | (2) HR-4735                  | STIS/CCD                            | 1                  | 03-Jul-2023 11:00:35.0        | yes                           |
| 04           | (1) HR-4796A                 | STIS/CCD                            | 1                  | 03-Jul-2023 11:00:40.0        | yes                           |
| 05           | (1) HR-4796A                 | STIS/CCD                            | 1                  | 03-Jul-2023 11:00:45.0        | yes                           |
| 06           | (1) HR-4796A                 | STIS/CCD                            | 1                  | 03-Jul-2023 11:00:50.0        | yes                           |
| 07           | (2) HR-4735                  | STIS/CCD                            | 1                  | 03-Jul-2023 11:00:54.0        | yes                           |
| 08           | (1) HR-4796A                 | STIS/CCD                            | 1                  | 03-Jul-2023 11:00:59.0        | yes                           |

8 Total Orbits Used

## **ABSTRACT**

Depending on the physical sizes of the coronagraphic occulter on STIS, they have imaged the surrounding environments of central bright sources down to  $\sim 0.2$  arcsec. Recent understanding of the current  $\sim 7$  mas pointing stability of HST can push beyond such a limit: by incrementally dithering along the perpendicular direction of the STIS occulter, and with carefully designed exposure times, we could image the surroundings of central sources down to 0.1 arcsec or less. We propose to perform such an instrumental calibration exploration for the BAR5 and WedgeA0.6 occulter of STIS, and thus push the supported inner working angle (IWA) to one that supercedes the stated values. Using a total of 4 orbits on the prototypical debris ring around HR 4796A and its point spread function star, we expect to recover the minor axis of the ring at a radius of  $\sim 0.15$  arcsec. Upon the completion of this program, we will provide STIS instrumental science report to establish formal guidelines in using this mode for future users.

## **OBSERVING DESCRIPTION**

We use 4 orbits of STIS coronagraphic observations to explore the surrounding environments for HR 4796 A, a  $V = 5.774$  debris disk host. In each orbit, we use a combination of both the BAR5 occulter and the WEDGEA0.6 occulter to achieve our goal of pushing down the inner working angle (IWA) for the two occulting locations.

There is one set of observations (V1 to V4) with 4 "back-to-back" orbits.

- a. Reference-point Orbit: In each set, we orient the telescope with respect to the 2nd visit (i.e., V2). The other two HR 4796 A visits are  $\pm 22.5$  deg from V2 -- by doing so can we best reduce the impact of diffraction spikes in overwhelming the debris disk ring.
- b. Point Spread Function (PSF) Orbit: To capture the PSF of HR 4796 A, we use the 3rd visit (i.e., V3) to observe a nearby color-matching star, HR 4375, which has been used in GO-13786 as the reference star for HR 4786 A. In this way, we can ensure the usage of the same reference star, and thus the thermal settling of the telescope can be achieved after a slew (which happens usually within 1 orbit) and permit optimal PSF stability.
- c. Telescope Roll Range: To observe the minor axis of the HR 4796 A debris disk ring, the absolute orientation in V2 should be constrained within 320 deg to 359.99 deg (ideally, as has been identified in Phase 1 using the VISIT-STIS-Coron tool at <https://github.com/seawander/VISIT-STIS-Coron>), or 0 deg to 10 deg and other ORIENT values specified in V2 (if the ideal constraint cannot be ensured; obtained using VISIT-STIS-Coron as well). In this way, we can position the minor axis of the debris ring outside the coronagraphic masks, which is the primary goal of this proposal.

Exposure Information: In each HR 4796 A or HR 4375 visit, we evenly distribute the observations to the BAR5 occulter and the WEDGEA0.6 occulter.

## Proposal 17135 (STScI Edit Number: 1, Created: Monday, July 3, 2023 at 10:01:01 AM Eastern Standard Time) - Overview

a. Angular Coverage: the two occulters are nearly perpendicular to each other, so that we can probe the HR 4796 A surroundings with a nearly 360 deg angular coverage after 3 orbits.

b. Readout Number: At each occulter location, we have three readouts with CR-SPLIT = 3 or more to permit cosmic ray rejection. By dithering between 2 and 4 STIS pixels from the original center, we aim to establish a smaller IWA for both BAR5 and WEDGEA0.6. The readout times are designed to be below HALF of the 80% potential well for STIS CCD, so that telescope jittering may not significantly induce saturation.

PSF Star Selection: We use HR 4375 that has previously been used in GO-13786 as the reference star for HR 4796 A. The exposure times are correspondingly scaled to take into account of the brightness between the PSF star and the science target (HR 4796 A).

### Impact of Reduced Gyro Mode (RGM):

RGM 1. Field of regard: with an RA of 189.0 deg and Dec of -39.9 deg for HR 4796 A, and RA of 186.7 deg and Dec of -32.8 deg for HR 4735, both of the target and the reference star are still accessible according to the 2019 May reduced-gyro mode presentations at <https://www.stsci.edu/hst/about/space-telescope-users-committee/presentations-and-documentation> . RGM therefore does not impact the observability of targets for GO-17135.

RGM 2. Spacecraft orientation: while it is ideal if we have 4 "back-to-back" orbits with relatively loose ORIENT constraints, we can reach our original science goal if 3 "back-to-back" orbits with highly specified ORIENT constraints. Under the most pessimistic scenarios, we will schedule two separate sets of 2 "back-to-back" orbits to attempt our goal of pushing down the IWA for STIS coronagraphy.

Proposal 17135 - V1-HR4796A (01) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |   |                              |
|--|---|------------------------------|
| <b>Visit</b>   | <b>Proposal 17135, V1-HR4796A (01), failed</b>  | Mon Jul 03 15:01:01 GMT 2023 |
|  | <b>Diagnostic Status: Warning</b>   |                              |
|  | Scientific Instruments: STIS/CCD  |                              |
|  | Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; SCHED 100%; ORIENT 15D TO 25D FROM 02 |                              |
| <i>Comments: Orientation: We wish to schedule this visit (1) at ideally +22.5 deg from Visit 2 (at least +15 deg), with the absolute orientation of Visit 2 constrained.</i> |   |                              |





Proposal 17135 - V1-HR4796A (01) - Imaging interior to 0.2 arcsec with the STIS coronagraph

| #  | Label (ETC Run)                         | Target       | Config,Mode,Aperture  | Spectral Els. | Opt. Params.                           | Special Reqs.  | Groups                                   | Exp. Time (Total)/[Actual Dur.]   | Orbit |
|--|---|--------------|-----------------------|---------------|--|--|--|---|-------|
| 1  | HR4796A_<br>ACQ<br>(STIS.ta.618<br>243) | (1) HR-4796A | STIS/CCD, ACQ, F25ND3 | MIRROR        |  |  | Sequence 1-25 Non-Int in V1-HR4796A (01) | 0.1 Secs (0.1 Secs)<br>[==>]  | [1]   |
| <p><i>Comments: Acquisition parameters replicated from GO-13786</i></p> <p><i>V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second</i></p> <p><i>ETC Request ID: STIS.ta.618243</i></p> |   |              |                       |               |  |  |  |   |       |
| 2  | HR4796A_<br>BAR5_4.00<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.04217<br>28073654743,0.1984<br>0745933284515    | Sequence 1-25 Non-Int in V1-HR4796A (01) | 0.21 Secs (0.21 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 4.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 3  | HR4796A_<br>BAR5_3.75<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03953<br>7006905132156,0.18<br>60069931245423   | Sequence 1-25 Non-Int in V1-HR4796A (01) | 0.36 Secs (0.36 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.75 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 4  | HR4796A_<br>BAR5_3.50<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03690<br>1206444790016,0.17<br>36065269162395   | Sequence 1-25 Non-Int in V1-HR4796A (01) | 0.54 Secs (0.54 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.50 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 5  | HR4796A_<br>BAR5_3.25<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03426<br>540598444787,0.161<br>20606070793667   | Sequence 1-25 Non-Int in V1-HR4796A (01) | 0.75 Secs (0.75 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.25 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 6  | HR4796A_<br>BAR5_3.00<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03162<br>960552410573,0.148<br>80559449963385   | Sequence 1-25 Non-Int in V1-HR4796A (01) | 1.05 Secs (1.05 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 7  | HR4796A_<br>BAR5_2.00<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.02108<br>640368273715,0.099<br>20372966642257   | Sequence 1-25 Non-Int in V1-HR4796A (01) | 2.61 Secs (2.61 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 8  | HR4796A_<br>BAR5_2.00<br>pixDown        | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0210<br>8640368273715,-0.0<br>9920372966642257 | Sequence 1-25 Non-Int in V1-HR4796A (01) | 2.61 Secs (2.61 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 2.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>  |   |              |                       |               |  |  |  |   |       |

Proposal 17135 - V1-HR4796A (01) - Imaging interior to 0.2 arcsec with the STIS coronagraph

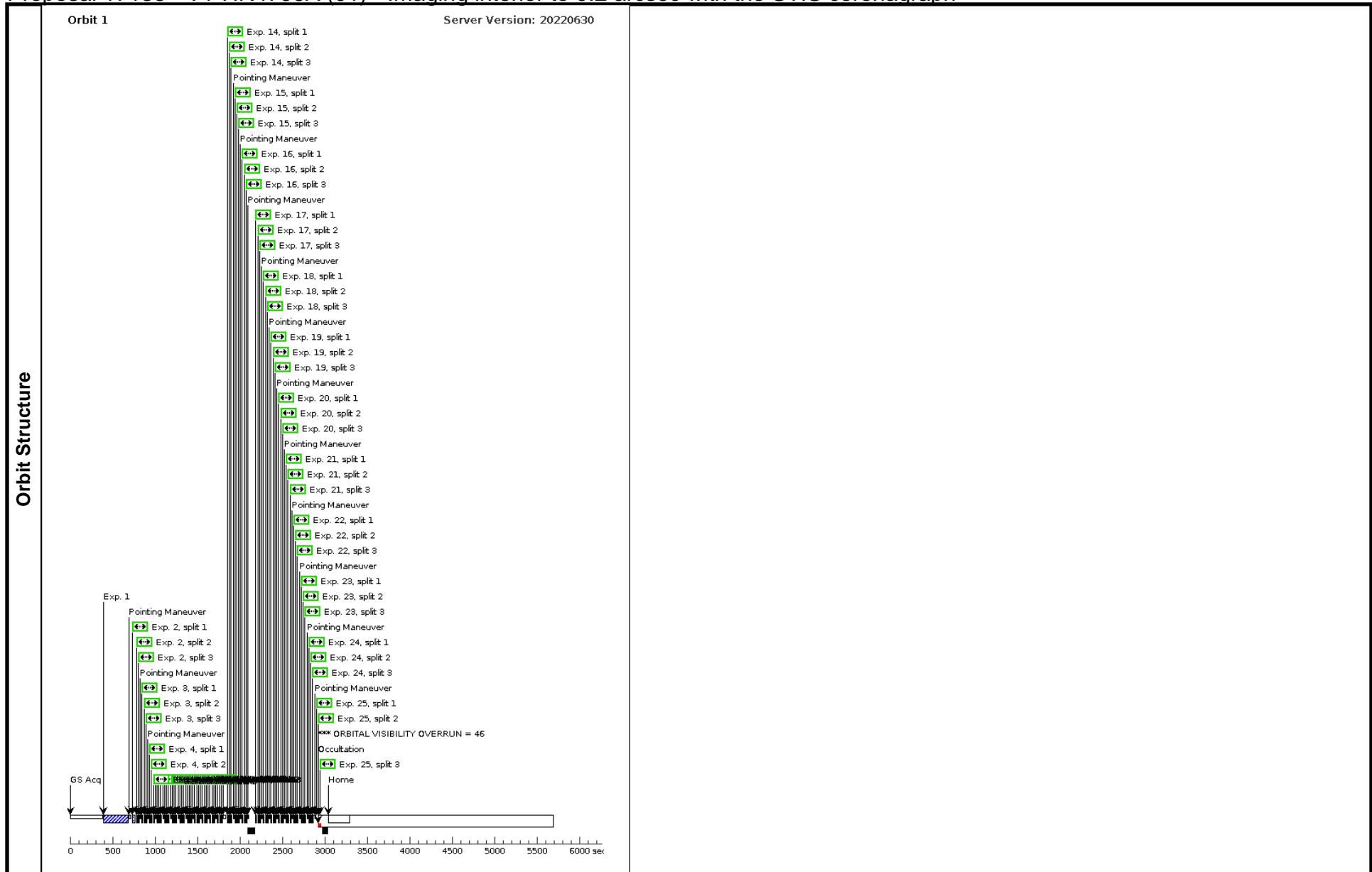
|  |  |                            |        |  |  |  |   |     |
|--|--|----------------------------|--------|--|--|--|---|-----|
| 9  | HR4796A_ (1) HR-4796A<br>BAR5_3.00<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0316<br>2960552410573,-0.1<br>4880559449963385 | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 1.05 Secs (1.05 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 10   | HR4796A_ (1) HR-4796A<br>BAR5_3.25<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0342<br>6540598444787,-0.1<br>6120606070793667 | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 0.75 Secs (0.75 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.25 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 11   | HR4796A_ (1) HR-4796A<br>BAR5_3.50<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0369<br>0120644790016,-0.<br>1736065269162395  | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 0.54 Secs (0.54 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.50 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 12   | HR4796A_ (1) HR-4796A<br>BAR5_3.75<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0395<br>37006905132156,-0.<br>1860069931245423 | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 0.36 Secs (0.36 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.75 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 13   | HR4796A_ (1) HR-4796A<br>BAR5_4.00<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0421<br>728073654743,-0.19<br>840745933284515  | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 0.21 Secs (0.21 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 4.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 14   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_4.00pixLeft | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.2028<br>4,0                                    | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 0.21 Secs (0.21 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 4.00 pixel the left side of the WedgeA0.6 occulting location.</i>                              |  |                            |        |  |  |  |   |     |
| 15   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.75pixLeft | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1901<br>625,0                                  | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 0.36 Secs (0.36 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.75 pixel the left side of the WedgeA0.6 occulting location.</i>                              |  |                            |        |  |  |  |   |     |
| 16   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.50pixLeft | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1774<br>85,0                                   | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 0.54 Secs (0.54 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.50 pixel the left side of the WedgeA0.6 occulting location.</i>                              |  |                            |        |  |  |  |   |     |
| 17   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.25pixLeft | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1648<br>075,0                                  | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 0.75 Secs (0.75 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.25 pixel the left side of the WedgeA0.6 occulting location.</i>                              |  |                            |        |  |  |  |   |     |



Proposal 17135 - V1-HR4796A (01) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |   |                                   |  |                          |  |   |     |
|--|---|-----------------------------------|--|--------------------------|--|---|-----|
| 18   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.00pixLeft      | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1521<br>3,0  | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 1.05 Secs (1.05 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.00 left the right side of the WedgeA0.6 occulting location.</i>  |   |                                   |  |                          |  |   |     |
| 19   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_2.00pixLeft      | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1014<br>2,0  | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 2.61 Secs (2.61 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 2.00 pixel the left side of the WedgeA0.6 occulting location.</i>  |   |                                   |  |                          |  |   |     |
| 20   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_2.00pixRig<br>ht | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.10142,<br>0   | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 2.61 Secs (2.61 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 2.00 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 21   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.00pixRig<br>ht | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.15213,<br>0   | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 1.05 Secs (1.05 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.00 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 22   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.25pixRig<br>ht | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.16480<br>75,0 | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 0.75 Secs (0.75 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.25 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 23   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.50pixRig<br>ht | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.17748<br>5,0  | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 0.54 Secs (0.54 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.50 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 24   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.75pixRig<br>ht | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.19016<br>25,0 | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 0.36 Secs (0.36 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.75 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 25   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_4.00pixRig<br>ht | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.20284,<br>0   | Sequence 1-25 Non-I<br>nt in V1-HR4796A (01) | 0.21 Secs (0.21 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 4.00 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |

Proposal 17135 - V1-HR4796A (01) - Imaging interior to 0.2 arcsec with the STIS coronagraph



Proposal 17135 - V2-HR4796A (02) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|              |  |                              |
|--------------|--|------------------------------|
| <b>Visit</b> | <b>Proposal 17135, V2-HR4796A (02), failed</b>   | Mon Jul 03 15:01:01 GMT 2023 |
|              | <b>Diagnostic Status: Warning</b>  |                              |
|              | Scientific Instruments: STIS/CCD   |                              |
|              | Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; SCHED 100%; ORIENT 0D TO 10 D; ORIENT 320D TO 359.9999 D; ORIENT 140D TO 180 D; ORIENT 230D TO 270 D; AFTER 01 BY 0 Orbits TO 1 Orbits |                              |
|              | <i>Comments: Absolute orient constrained for this orbit, with V1 and V4 rotated from it.</i>   |                              |





Proposal 17135 - V2-HR4796A (02) - Imaging interior to 0.2 arcsec with the STIS coronagraph

| #  | Label<br>(ETC Run)                      | Target       | Config,Mode,Aperture  | Spectral Els. | Opt. Params.                           | Special Reqs.  | Groups                                   | Exp. Time (Total)/[Actual Dur.]   | Orbit |
|--|---|--------------|-----------------------|---------------|--|--|--|---|-------|
| 1  | HR4796A_<br>ACQ<br>(STIS.ta.618<br>243) | (1) HR-4796A | STIS/CCD, ACQ, F25ND3 | MIRROR        |  |  | Sequence 1-25 Non-Int in V2-HR4796A (02) | 0.1 Secs (0.1 Secs)<br>[==>]  | [1]   |
| <p><i>Comments: Acquisition parameters replicated from GO-13786</i></p> <p><i>V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second</i></p> <p><i>ETC Request ID: STIS.ta.618243</i></p> |   |              |                       |               |  |  |  |   |       |
| 2  | HR4796A_<br>BAR5_4.00<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.04217<br>28073654743,0.1984<br>0745933284515    | Sequence 1-25 Non-Int in V2-HR4796A (02) | 0.21 Secs (0.21 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 4.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 3  | HR4796A_<br>BAR5_3.75<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03953<br>7006905132156,0.18<br>60069931245423   | Sequence 1-25 Non-Int in V2-HR4796A (02) | 0.36 Secs (0.36 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.75 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 4  | HR4796A_<br>BAR5_3.50<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03690<br>1206444790016,0.17<br>36065269162395   | Sequence 1-25 Non-Int in V2-HR4796A (02) | 0.54 Secs (0.54 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.50 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 5  | HR4796A_<br>BAR5_3.25<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03426<br>540598444787,0.161<br>20606070793667   | Sequence 1-25 Non-Int in V2-HR4796A (02) | 0.75 Secs (0.75 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.25 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 6  | HR4796A_<br>BAR5_3.00<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03162<br>960552410573,0.148<br>80559449963385   | Sequence 1-25 Non-Int in V2-HR4796A (02) | 1.05 Secs (1.05 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 7  | HR4796A_<br>BAR5_2.00<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.02108<br>640368273715,0.099<br>20372966642257   | Sequence 1-25 Non-Int in V2-HR4796A (02) | 2.61 Secs (2.61 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 8  | HR4796A_<br>BAR5_2.00<br>pixDown        | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0210<br>8640368273715,-0.0<br>9920372966642257 | Sequence 1-25 Non-Int in V2-HR4796A (02) | 2.61 Secs (2.61 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 2.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>  |   |              |                       |               |  |  |  |   |       |

Proposal 17135 - V2-HR4796A (02) - Imaging interior to 0.2 arcsec with the STIS coronagraph

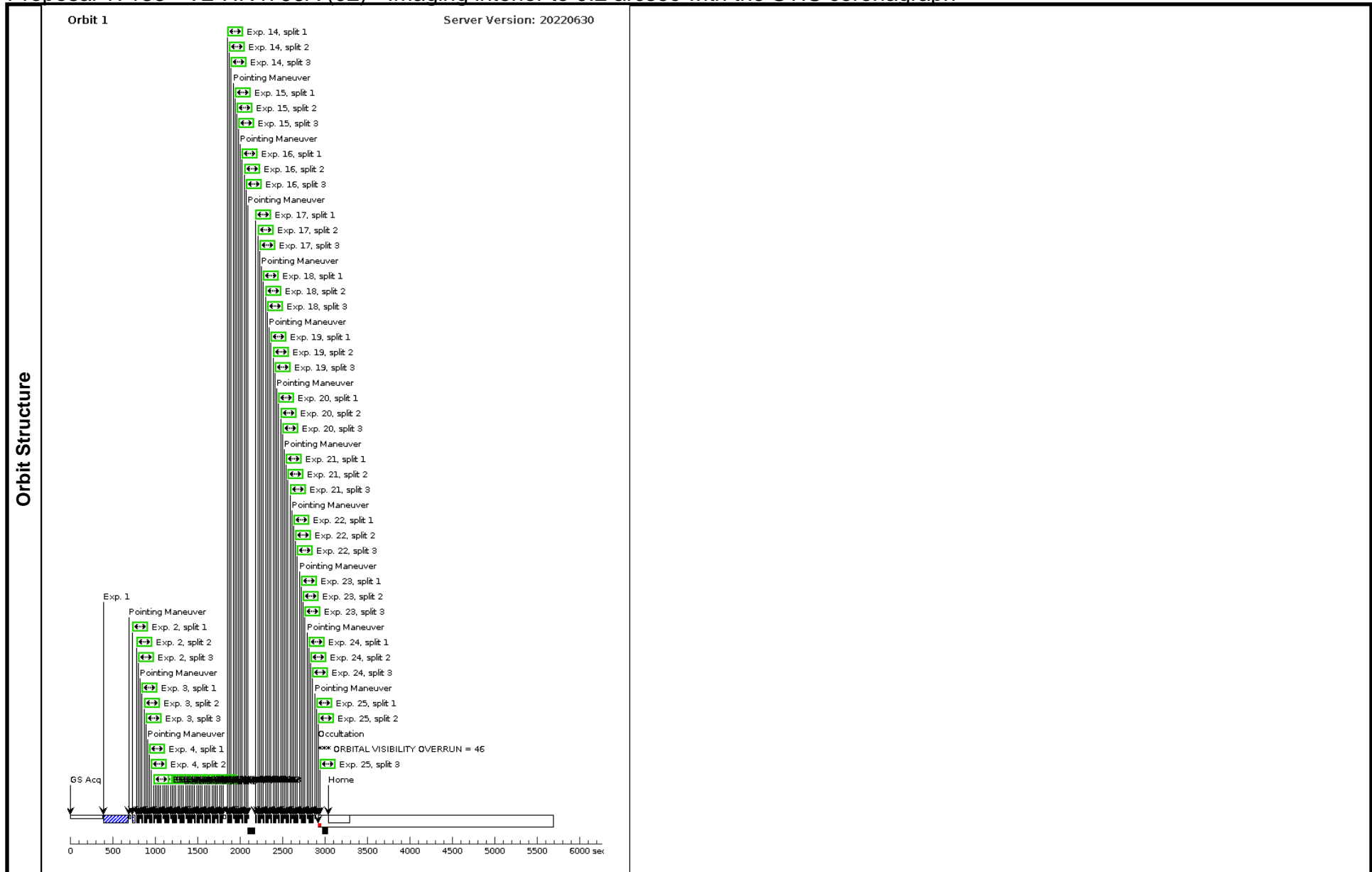
|  |  |                            |        |  |  |  |   |     |
|--|--|----------------------------|--------|--|--|--|---|-----|
| 9  | HR4796A_ (1) HR-4796A<br>BAR5_3.00<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0316<br>2960552410573,-0.1<br>4880559449963385 | Sequence 1-25 Non-I<br>nt in V2-HR4796A (02) | 1.05 Secs (1.05 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 10   | HR4796A_ (1) HR-4796A<br>BAR5_3.25<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0342<br>6540598444787,-0.1<br>6120606070793667 | Sequence 1-25 Non-I<br>nt in V2-HR4796A (02) | 0.75 Secs (0.75 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.25 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 11   | HR4796A_ (1) HR-4796A<br>BAR5_3.50<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0369<br>0120644790016,-0.<br>1736065269162395  | Sequence 1-25 Non-I<br>nt in V2-HR4796A (02) | 0.54 Secs (0.54 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.50 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 12   | HR4796A_ (1) HR-4796A<br>BAR5_3.75<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0395<br>37006905132156,-0.<br>1860069931245423 | Sequence 1-25 Non-I<br>nt in V2-HR4796A (02) | 0.36 Secs (0.36 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.75 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 13   | HR4796A_ (1) HR-4796A<br>BAR5_4.00<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0421<br>728073654743,-0.19<br>840745933284515  | Sequence 1-25 Non-I<br>nt in V2-HR4796A (02) | 0.21 Secs (0.21 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 4.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 14   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_4.00pixLeft | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.2028<br>4,0                                    | Sequence 1-25 Non-I<br>nt in V2-HR4796A (02) | 0.21 Secs (0.21 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 4.00 pixel the left side of the WedgeA0.6 occulting location.</i>                              |  |                            |        |  |  |  |   |     |
| 15   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.75pixLeft | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1901<br>625,0                                  | Sequence 1-25 Non-I<br>nt in V2-HR4796A (02) | 0.36 Secs (0.36 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.75 pixel the left side of the WedgeA0.6 occulting location.</i>                              |  |                            |        |  |  |  |   |     |
| 16   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.50pixLeft | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1774<br>85,0                                   | Sequence 1-25 Non-I<br>nt in V2-HR4796A (02) | 0.54 Secs (0.54 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.50 pixel the left side of the WedgeA0.6 occulting location.</i>                              |  |                            |        |  |  |  |   |     |
| 17   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.25pixLeft | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1648<br>075,0                                  | Sequence 1-25 Non-I<br>nt in V2-HR4796A (02) | 0.75 Secs (0.75 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.25 pixel the left side of the WedgeA0.6 occulting location.</i>                              |  |                            |        |  |  |  |   |     |

Proposal 17135 - V2-HR4796A (02) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |   |                                   |  |                          |  |   |     |
|--|---|-----------------------------------|--|--------------------------|--|---|-----|
| 18   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.00pixLeft  | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1521<br>3,0  | Sequence 1-25 Non-Int in V2-HR4796A (02) | 1.05 Secs (1.05 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.00 left the right side of the WedgeA0.6 occulting location.</i>  |   |                                   |  |                          |  |   |     |
| 19   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_2.00pixLeft  | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1014<br>2,0  | Sequence 1-25 Non-Int in V2-HR4796A (02) | 2.61 Secs (2.61 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 2.00 pixel the left side of the WedgeA0.6 occulting location.</i>  |   |                                   |  |                          |  |   |     |
| 20   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_2.00pixRight | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.10142,<br>0   | Sequence 1-25 Non-Int in V2-HR4796A (02) | 2.61 Secs (2.61 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 2.00 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 21   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.00pixRight | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.15213,<br>0   | Sequence 1-25 Non-Int in V2-HR4796A (02) | 1.05 Secs (1.05 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.00 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 22   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.25pixRight | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.16480<br>75,0 | Sequence 1-25 Non-Int in V2-HR4796A (02) | 0.75 Secs (0.75 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.25 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 23   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.50pixRight | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.17748<br>5,0  | Sequence 1-25 Non-Int in V2-HR4796A (02) | 0.54 Secs (0.54 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.50 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 24   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.75pixRight | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.19016<br>25,0 | Sequence 1-25 Non-Int in V2-HR4796A (02) | 0.36 Secs (0.36 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.75 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 25   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_4.00pixRight | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.20284,<br>0   | Sequence 1-25 Non-Int in V2-HR4796A (02) | 0.21 Secs (0.21 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 4.00 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |



Proposal 17135 - V2-HR4796A (02) - Imaging interior to 0.2 arcsec with the STIS coronagraph



Proposal 17135 - V3-HR4735-PSF (03) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|              |  |
|--------------|--|
| <b>Visit</b> | <p>Proposal 17135, V3-HR4735-PSF (03), failed <span style="float: right;">Mon Jul 03 15:01:01 GMT 2023</span><br/><b>Diagnostic Status: Warning</b><br/>Scientific Instruments: STIS/CCD<br/>Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; SCHED 100%; AFTER 02 BY 0 Orbits TO 1 Orbits<br/><i>Comments: PSF star for HR 4796 A.</i></p> |
|--------------|--|



Proposal 17135 - V3-HR4735-PSF (03) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|               | (V3-HR4735-PSF (03)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS   |         |  |   |         |                         |
|---------------|--|---------|--|---|---------|-------------------------|
|               | (V3-HR4735-PSF (03)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS   |         |  |   |         |                         |
|               | (V3-HR4735-PSF (03)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS   |         |  |   |         |                         |
|               | (V3-HR4735-PSF (03)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS   |         |  |   |         |                         |
|               | (V3-HR4735-PSF (03)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS   |         |  |   |         |                         |
| Fixed Targets | #  | Name    | Target Coordinates   | Targ. Coord. Corrections  | Fluxes  | Miscellaneous           |
|               | (2)  | HR-4735 | RA: 12 26 51.6779 (186.7153246d)<br>Dec: -32 49 48.88 (-32.83024d)<br>Equinox: J2000 | Proper Motion RA: -9.028730739523227E-4<br>sec of time/yr<br>Proper Motion Dec: -0.028128999929322163<br>arcsec/yr<br>Epoch of Position: 2015.5 | V=5.558 | Reference Frame: SIMBAD |
|               | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i><br>Category=STAR<br>Description=[M III-I] |         |  |   |         |                         |

Proposal 17135 - V3-HR4735-PSF (03) - Imaging interior to 0.2 arcsec with the STIS coronagraph

| #  | Label<br>(ETC Run)                     | Target      | Config,Mode,Aperture  | Spectral Els. | Opt. Params.                           | Special Reqs.  | Groups                                      | Exp. Time (Total)/[Actual Dur.]   | Orbit |
|--|--|-------------|-----------------------|---------------|--|--|---|---|-------|
| 1  | HR4735_A<br>CQ<br>(STIS.ta.618<br>247) | (2) HR-4735 | STIS/CCD, ACQ, F25ND3 | MIRROR        |  |  | Sequence 1-25 Non-Int in V3-HR4735-PSF (03) | 0.1 Secs (0.1 Secs)<br>[==>]  | [1]   |
| <p><i>Comments: Acquisition parameters replicated from GO-13786</i></p> <p><i>V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second</i></p> <p><i>ETC Request ID: STIS.ta.618243</i></p> |  |             |                       |               |  |  |   |   |       |
| 2  | HR4735_B<br>AR5_4.00pi<br>xUp          | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.04217<br>28073654743,0.1984<br>0745933284515    | Sequence 1-25 Non-Int in V3-HR4735-PSF (03) | 0.168 Secs (0.168 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 4.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |  |             |                       |               |  |  |   |   |       |
| 3  | HR4735_B<br>AR5_3.75pi<br>xUp          | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03953<br>7006905132156,0.18<br>60069931245423   | Sequence 1-25 Non-Int in V3-HR4735-PSF (03) | 0.288 Secs (0.288 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.75 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |  |             |                       |               |  |  |   |   |       |
| 4  | HR4735_B<br>AR5_3.50pi<br>xUp          | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03690<br>1206444790016,0.17<br>36065269162395   | Sequence 1-25 Non-Int in V3-HR4735-PSF (03) | 0.432 Secs (0.432 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.50 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |  |             |                       |               |  |  |   |   |       |
| 5  | HR4735_B<br>AR5_3.25pi<br>xUp          | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03426<br>540598444787,0.161<br>20606070793667   | Sequence 1-25 Non-Int in V3-HR4735-PSF (03) | 0.6 Secs (0.6 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]     | [1]   |
| <p><i>Comments: Position star to 3.25 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |  |             |                       |               |  |  |   |   |       |
| 6  | HR4735_B<br>AR5_3.00pi<br>xUp          | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03162<br>960552410573,0.148<br>80559449963385   | Sequence 1-25 Non-Int in V3-HR4735-PSF (03) | 0.84 Secs (0.84 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]   | [1]   |
| <p><i>Comments: Position star to 3.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |  |             |                       |               |  |  |   |   |       |
| 7  | HR4735_B<br>AR5_2.00pi<br>xUp          | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.02108<br>640368273715,0.099<br>20372966642257   | Sequence 1-25 Non-Int in V3-HR4735-PSF (03) | 2.1 Secs (2.1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]     | [1]   |
| <p><i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |  |             |                       |               |  |  |   |   |       |
| 8  | HR4735_B<br>AR5_2.00pi<br>xDown        | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0210<br>8640368273715,-0.0<br>9920372966642257 | Sequence 1-25 Non-Int in V3-HR4735-PSF (03) | 2.1 Secs (2.1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]     | [1]   |
| <p><i>Comments: Position star to 2.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>  |  |             |                       |               |  |  |   |   |       |

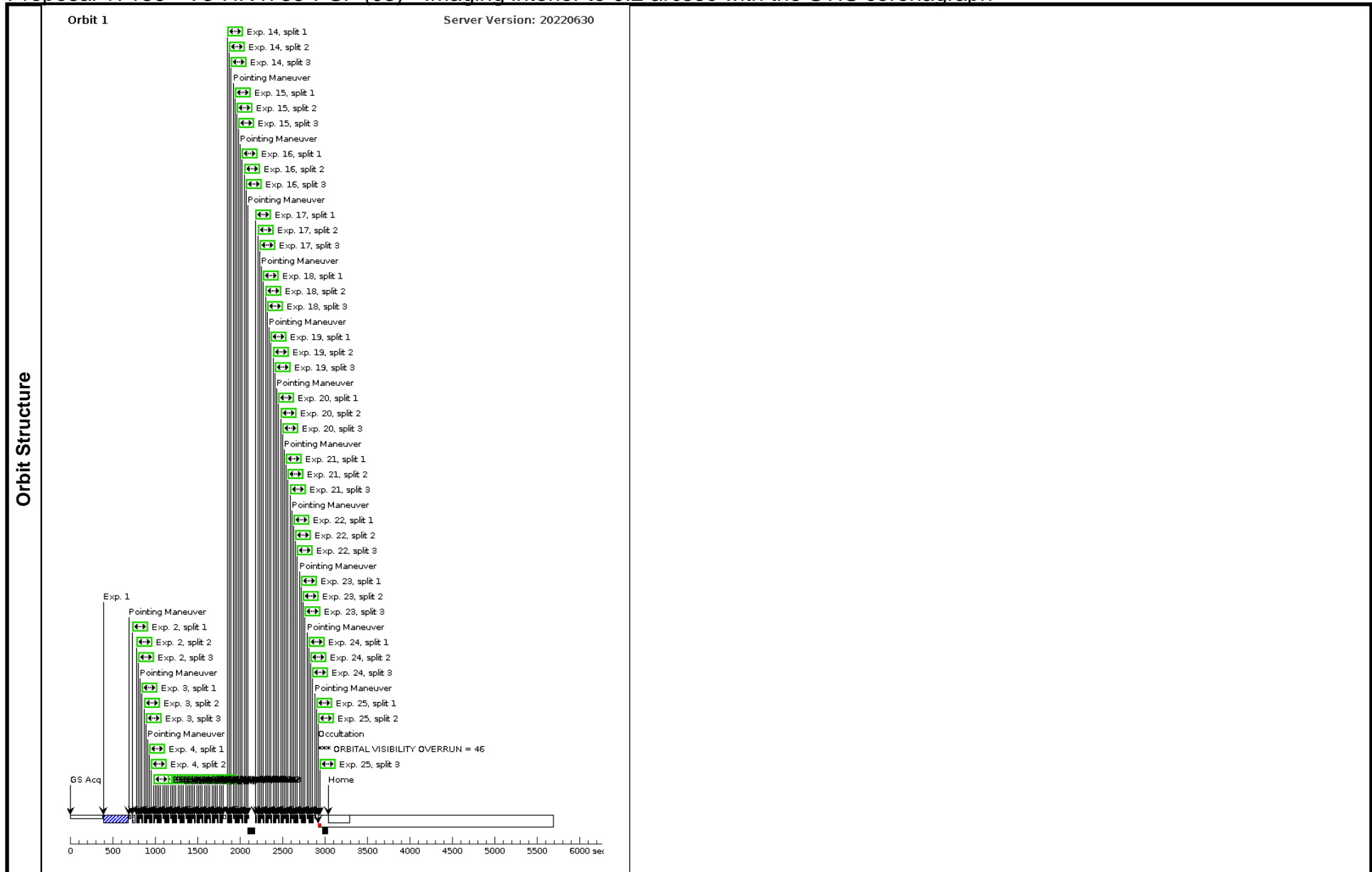
Proposal 17135 - V3-HR4735-PSF (03) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |                                      |             |                            |        |  |  |   |   |     |
|--|--------------------------------------|-------------|----------------------------|--------|--|--|---|---|-----|
| 9  | HR4735_B<br>AR5_3.00pi<br>xDown      | (2) HR-4735 | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0316<br>2960552410573,-0.1<br>4880559449963385 | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.84 Secs (0.84 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]   | [1] |
| <i>Comments: Position star to 3.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |                                      |             |                            |        |  |  |   |   |     |
| 10   | HR4735_B<br>AR5_3.25pi<br>xDown      | (2) HR-4735 | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0342<br>6540598444787,-0.1<br>6120606070793667 | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.6 Secs (0.6 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]     | [1] |
| <i>Comments: Position star to 3.25 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |                                      |             |                            |        |  |  |   |   |     |
| 11   | HR4735_B<br>AR5_3.50pi<br>xDown      | (2) HR-4735 | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0369<br>0120644790016,-0.<br>1736065269162395  | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.432 Secs (0.432 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.50 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |                                      |             |                            |        |  |  |   |   |     |
| 12   | HR4735_B<br>AR5_3.75pi<br>xDown      | (2) HR-4735 | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0395<br>37006905132156,-0.<br>1860069931245423 | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.288 Secs (0.288 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.75 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |                                      |             |                            |        |  |  |   |   |     |
| 13   | HR4735_B<br>AR5_4.00pi<br>xDown      | (2) HR-4735 | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0421<br>728073654743,-0.19<br>840745933284515  | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.168 Secs (0.168 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 4.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |                                      |             |                            |        |  |  |   |   |     |
| 14   | HR4735_W<br>edgeA0.6_4.<br>00pixLeft | (2) HR-4735 | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.2028<br>4,0                                    | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.168 Secs (0.168 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 4.00 pixel the left side of the WedgeA0.6 occulting location.</i>                              |                                      |             |                            |        |  |  |   |   |     |
| 15   | HR4735_W<br>edgeA0.6_3.<br>75pixLeft | (2) HR-4735 | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1901<br>625,0                                  | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.288 Secs (0.288 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.75 pixel the left side of the WedgeA0.6 occulting location.</i>                              |                                      |             |                            |        |  |  |   |   |     |
| 16   | HR4735_W<br>edgeA0.6_3.<br>50pixLeft | (2) HR-4735 | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1774<br>85,0                                   | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.432 Secs (0.432 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.50 pixel the right side of the WedgeA0.6 occulting location.</i>                             |                                      |             |                            |        |  |  |   |   |     |
| 17   | HR4735_W<br>edgeA0.6_3.<br>25pixLeft | (2) HR-4735 | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1648<br>075,0                                  | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.6 Secs (0.6 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]     | [1] |
| <i>Comments: Position star to 3.25 pixel the left side of the WedgeA0.6 occulting location.</i>                              |                                      |             |                            |        |  |  |   |   |     |

Proposal 17135 - V3-HR4735-PSF (03) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |                                       |             |                            |        |  |                          |   |   |     |
|--|---------------------------------------|-------------|----------------------------|--------|--|--------------------------|---|---|-----|
| 18   | HR4735_W<br>edgeA0.6_3.<br>00pixLeft  | (2) HR-4735 | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1521<br>3,0  | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.84 Secs (0.84 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]   | [1] |
| <i>Comments: Position star to 3.00 left the right side of the WedgeA0.6 occulting location.</i>  |                                       |             |                            |        |  |                          |   |   |     |
| 19   | HR4735_W<br>edgeA0.6_2.<br>00pixLeft  | (2) HR-4735 | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1014<br>2,0  | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 2.1 Secs (2.1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]     | [1] |
| <i>Comments: Position star to 2.00 pixel the left side of the WedgeA0.6 occulting location.</i>  |                                       |             |                            |        |  |                          |   |   |     |
| 20   | HR4735_W<br>edgeA0.6_2.<br>00pixRight | (2) HR-4735 | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.10142,<br>0   | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 2.1 Secs (2.1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]     | [1] |
| <i>Comments: Position star to 2.00 pixel the right side of the WedgeA0.6 occulting location.</i> |                                       |             |                            |        |  |                          |   |   |     |
| 21   | HR4735_W<br>edgeA0.6_3.<br>00pixRight | (2) HR-4735 | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.15213,<br>0   | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.84 Secs (0.84 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]   | [1] |
| <i>Comments: Position star to 3.00 pixel the right side of the WedgeA0.6 occulting location.</i> |                                       |             |                            |        |  |                          |   |   |     |
| 22   | HR4735_W<br>edgeA0.6_3.<br>25pixRight | (2) HR-4735 | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.16480<br>75,0 | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.6 Secs (0.6 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]     | [1] |
| <i>Comments: Position star to 3.25 pixel the right side of the WedgeA0.6 occulting location.</i> |                                       |             |                            |        |  |                          |   |   |     |
| 23   | HR4735_W<br>edgeA0.6_3.<br>50pixRight | (2) HR-4735 | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.17748<br>5,0  | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.432 Secs (0.432 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.50 pixel the right side of the WedgeA0.6 occulting location.</i> |                                       |             |                            |        |  |                          |   |   |     |
| 24   | HR4735_W<br>edgeA0.6_3.<br>75pixRight | (2) HR-4735 | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.19016<br>25,0 | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.288 Secs (0.288 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.75 pixel the right side of the WedgeA0.6 occulting location.</i> |                                       |             |                            |        |  |                          |   |   |     |
| 25   | HR4735_W<br>edgeA0.6_4.<br>00pixRight | (2) HR-4735 | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.20284,<br>0   | Sequence 1-25 Non-I<br>nt in V3-HR4735-PS<br>F (03) | 0.168 Secs (0.168 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 4.00 pixel the right side of the WedgeA0.6 occulting location.</i> |                                       |             |                            |        |  |                          |   |   |     |

Proposal 17135 - V3-HR4735-PSF (03) - Imaging interior to 0.2 arcsec with the STIS coronagraph





Proposal 17135 - V4-HR4796A (04) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |   |                              |
|--|---|------------------------------|
| Visit  | <b>Proposal 17135, V4-HR4796A (04), failed</b>  | Mon Jul 03 15:01:01 GMT 2023 |
|  | <b>Diagnostic Status: Warning</b>   |                              |
|  | Scientific Instruments: STIS/CCD  |                              |
|  | Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; SCHED 100%; ORIENT -25D TO -15D FROM 02; AFTER 03 BY 0 Orbits TO 1 Orbits |                              |
| <i>Comments: Orientation: We wish to schedule this visit (1) at ideally -22.5 deg from Visit 2 (at least -15 deg), with the absolute orientation of Visit 2 constrained.</i> |   |                              |





Proposal 17135 - V4-HR4796A (04) - Imaging interior to 0.2 arcsec with the STIS coronagraph

| #  | Label (ETC Run)                         | Target       | Config,Mode,Aperture  | Spectral Els. | Opt. Params.                           | Special Reqs.  | Groups                                   | Exp. Time (Total)/[Actual Dur.]   | Orbit |
|--|---|--------------|-----------------------|---------------|--|--|--|---|-------|
| 1  | HR4796A_<br>ACQ<br>(STIS.ta.618<br>243) | (1) HR-4796A | STIS/CCD, ACQ, F25ND3 | MIRROR        |  |  | Sequence 1-25 Non-Int in V4-HR4796A (04) | 0.1 Secs (0.1 Secs)<br>[==>]  | [1]   |
| <p><i>Comments: Acquisition parameters replicated from GO-13786</i></p> <p><i>V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second</i></p> <p><i>ETC Request ID: STIS.ta.618243</i></p> |   |              |                       |               |  |  |  |   |       |
| 2  | HR4796A_<br>BAR5_4.00<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.04217<br>28073654743,0.1984<br>0745933284515    | Sequence 1-25 Non-Int in V4-HR4796A (04) | 0.21 Secs (0.21 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 4.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 3  | HR4796A_<br>BAR5_3.75<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03953<br>7006905132156,0.18<br>60069931245423   | Sequence 1-25 Non-Int in V4-HR4796A (04) | 0.36 Secs (0.36 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.75 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 4  | HR4796A_<br>BAR5_3.50<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03690<br>1206444790016,0.17<br>36065269162395   | Sequence 1-25 Non-Int in V4-HR4796A (04) | 0.54 Secs (0.54 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.50 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 5  | HR4796A_<br>BAR5_3.25<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03426<br>540598444787,0.161<br>20606070793667   | Sequence 1-25 Non-Int in V4-HR4796A (04) | 0.75 Secs (0.75 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.25 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 6  | HR4796A_<br>BAR5_3.00<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03162<br>960552410573,0.148<br>80559449963385   | Sequence 1-25 Non-Int in V4-HR4796A (04) | 1.05 Secs (1.05 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 3.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 7  | HR4796A_<br>BAR5_2.00<br>pixUp          | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.02108<br>640368273715,0.099<br>20372966642257   | Sequence 1-25 Non-Int in V4-HR4796A (04) | 2.61 Secs (2.61 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |  |  |   |       |
| 8  | HR4796A_<br>BAR5_2.00<br>pixDown        | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0210<br>8640368273715,-0.0<br>9920372966642257 | Sequence 1-25 Non-Int in V4-HR4796A (04) | 2.61 Secs (2.61 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1]   |
| <p><i>Comments: Position star to 2.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>  |   |              |                       |               |  |  |  |   |       |

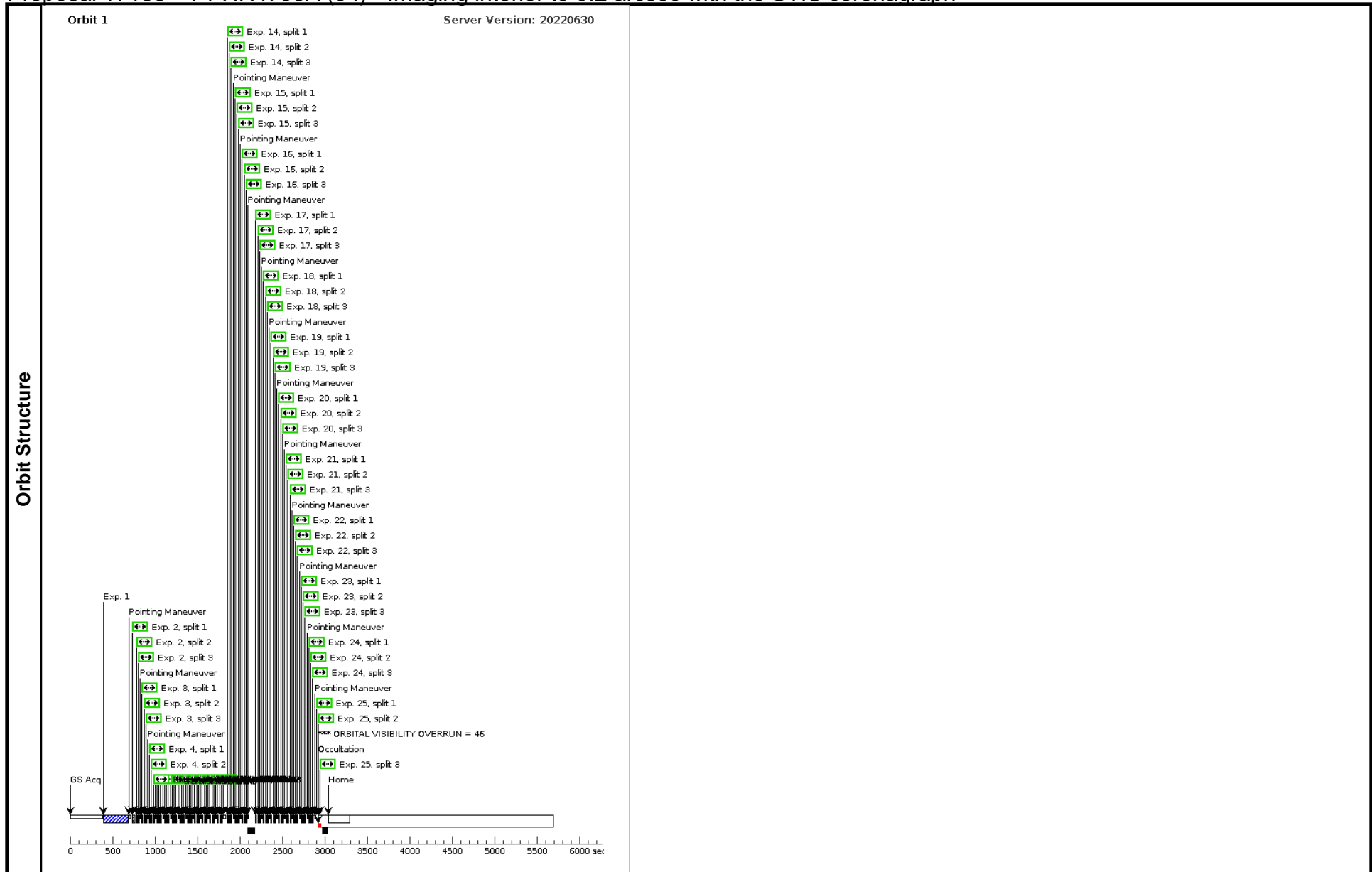
Proposal 17135 - V4-HR4796A (04) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |  |                            |        |  |  |  |   |     |
|--|--|----------------------------|--------|--|--|--|---|-----|
| 9  | HR4796A_ (1) HR-4796A<br>BAR5_3.00<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0316<br>2960552410573,-0.1<br>4880559449963385 | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 1.05 Secs (1.05 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 10   | HR4796A_ (1) HR-4796A<br>BAR5_3.25<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0342<br>6540598444787,-0.1<br>6120606070793667 | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 0.75 Secs (0.75 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.25 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 11   | HR4796A_ (1) HR-4796A<br>BAR5_3.50<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0369<br>0120644790016,-0.<br>1736065269162395  | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 0.54 Secs (0.54 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.50 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 12   | HR4796A_ (1) HR-4796A<br>BAR5_3.75<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0395<br>37006905132156,-0.<br>1860069931245423 | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 0.36 Secs (0.36 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.75 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 13   | HR4796A_ (1) HR-4796A<br>BAR5_4.00<br>pixDown      | STIS/CCD, ACCUM, BAR5      | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0421<br>728073654743,-0.19<br>840745933284515  | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 0.21 Secs (0.21 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 4.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                            |        |  |  |  |   |     |
| 14   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_4.00pixLeft | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.2028<br>4,0                                    | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 0.21 Secs (0.21 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 4.00 pixel the left side of the WedgeA0.6 occulting location.</i>                              |  |                            |        |  |  |  |   |     |
| 15   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.75pixLeft | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1901<br>625,0                                  | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 0.36 Secs (0.36 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.75 pixel the left side of the WedgeA0.6 occulting location.</i>                              |  |                            |        |  |  |  |   |     |
| 16   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.50pixLeft | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1774<br>85,0                                   | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 0.54 Secs (0.54 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.50 pixel the left side of the WedgeA0.6 occulting location.</i>                              |  |                            |        |  |  |  |   |     |
| 17   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.25pixLeft | STIS/CCD, ACCUM, WEDGEA0.6 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1648<br>075,0                                  | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 0.75 Secs (0.75 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.25 pixel the left side of the WedgeA0.6 occulting location.</i>                              |  |                            |        |  |  |  |   |     |

Proposal 17135 - V4-HR4796A (04) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |   |                                   |  |                          |  |   |     |
|--|---|-----------------------------------|--|--------------------------|--|---|-----|
| 18   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.00pixLeft      | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1521<br>3,0  | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 1.05 Secs (1.05 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.00 left the right side of the WedgeA0.6 occulting location.</i>  |   |                                   |  |                          |  |   |     |
| 19   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_2.00pixLeft      | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.1014<br>2,0  | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 2.61 Secs (2.61 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 2.00 pixel the left side of the WedgeA0.6 occulting location.</i>  |   |                                   |  |                          |  |   |     |
| 20   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_2.00pixRig<br>ht | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.10142,<br>0   | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 2.61 Secs (2.61 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 2.00 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 21   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.00pixRig<br>ht | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.15213,<br>0   | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 1.05 Secs (1.05 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.00 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 22   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.25pixRig<br>ht | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.16480<br>75,0 | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 0.75 Secs (0.75 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.25 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 23   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.50pixRig<br>ht | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.17748<br>5,0  | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 0.54 Secs (0.54 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.50 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 24   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_3.75pixRig<br>ht | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.19016<br>25,0 | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 0.36 Secs (0.36 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 3.75 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |
| 25   | HR4796A_ (1) HR-4796A<br>WedgeA0.6<br>_4.00pixRig<br>ht | STIS/CCD, ACCUM, WEDGEA0.6 MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.20284,<br>0   | Sequence 1-25 Non-I<br>nt in V4-HR4796A (04) | 0.21 Secs (0.21 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)] | [1] |
| <i>Comments: Position star to 4.00 pixel the right side of the WedgeA0.6 occulting location.</i> |   |                                   |  |                          |  |   |     |

Proposal 17135 - V4-HR4796A (04) - Imaging interior to 0.2 arcsec with the STIS coronagraph



Proposal 17135 - V1-HR4796A (05) - Imaging interior to 0.2 arcsec with the STIS coronagraph

Mon Jul 03 15:01:02 GMT 2023

| <b>Visit</b>         | <b>Proposal 17135, V1-HR4796A (05), implementation</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: STIS/CCD<br>Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; SCHED 100%; ORIENT 15D TO 25D FROM 06<br><i>Comments: Orientation: We wish to schedule this visit (1) at ideally +22.5 deg from Visit 2 (at least +15 deg), with the absolute orientation of Visit 2 constrained.</i>  |   |  |                          |                          |               |               |     |          |   |  |         |                         |  |  |  |  |  |
|----------------------|---|---|--|--------------------------|--------------------------|---------------|---------------|-----|----------|---|--|---------|-------------------------|--|--|--|--|--|
|                      | <b>Diagnosics</b><br>(V1-HR4796A (05)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE   |   |  |                          |                          |               |               |     |          |   |  |         |                         |  |  |  |  |  |
| <b>Fixed Targets</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HR-4796A</td> <td>RA: 12 36 0.9568 (189.0039867d)<br/>Dec: -39 52 10.59 (-39.86961d)<br/>Equinox: J2000</td> <td>Proper Motion RA: -0.00483410349433121<br/>sec of time/yr<br/>Proper Motion Dec: -0.023879999980636057<br/>arcsec/yr<br/>Epoch of Position: 2015.5</td> <td>V=5.774</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> | #   | Name   | Target Coordinates       | Targ. Coord. Corrections | Fluxes        | Miscellaneous | (1) | HR-4796A | RA: 12 36 0.9568 (189.0039867d)<br>Dec: -39 52 10.59 (-39.86961d)<br>Equinox: J2000 | Proper Motion RA: -0.00483410349433121<br>sec of time/yr<br>Proper Motion Dec: -0.023879999980636057<br>arcsec/yr<br>Epoch of Position: 2015.5 | V=5.774 | Reference Frame: SIMBAD | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i><br>Category=STAR<br>Description=[A0-A3 V-IV, DISK, PROTOPLANETARY DISK] |  |  |  |  |
|                      | #   | Name  | Target Coordinates   | Targ. Coord. Corrections | Fluxes                   | Miscellaneous |               |     |          |   |  |         |                         |  |  |  |  |  |
| (1)                  | HR-4796A  | RA: 12 36 0.9568 (189.0039867d)<br>Dec: -39 52 10.59 (-39.86961d)<br>Equinox: J2000 | Proper Motion RA: -0.00483410349433121<br>sec of time/yr<br>Proper Motion Dec: -0.023879999980636057<br>arcsec/yr<br>Epoch of Position: 2015.5 | V=5.774                  | Reference Frame: SIMBAD  |               |               |     |          |   |  |         |                         |  |  |  |  |  |
|                      |   |   |  |                          |                          |               |               |     |          |   |  |         |                         |  |  |  |  |  |



Proposal 17135 - V1-HR4796A (05) - Imaging interior to 0.2 arcsec with the STIS coronagraph

| #  | Label<br>(ETC Run)                        | Target       | Config,Mode,Aperture  | Spectral Els. | Opt. Params.                           | Special Reqs.   | Groups   | Exp. Time (Total)/[Actual Dur.]   | Orbit |
|--|---|--------------|-----------------------|---------------|--|---|--|---|-------|
| 1  | HR4796A_<br>ACQ<br>(STIS.ta.618<br>243)   | (1) HR-4796A | STIS/CCD, ACQ, F25ND3 | MIRROR        |  | GS ACQ SCENARI<br>O BASE1B3                               | Sequence 1-22 Non-I<br>nt in V1-HR4796A (<br>05) | 0.1 Secs (0.1 Secs)<br>[==>]  | [1]   |
| <p><i>Comments: Acquisition parameters replicated from GO-13786</i></p> <p><i>V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second</i></p> <p><i>ETC Request ID: STIS.ta.618243</i></p> |   |              |                       |               |  |   |  |   |       |
| 2  | HR4796A_<br>BAR5_4.00<br>pixUp_3x0.<br>1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.04217<br>1206444790016,0.1984<br>0745933284515 | Sequence 1-22 Non-I<br>nt in V1-HR4796A (<br>05) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1]   |
| <p><i>Comments: Position star to 4.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |   |  |   |       |
| 3  | HR4796A_<br>BAR5_3.50<br>pixUp_3x0.<br>1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03690<br>1206444790016,0.17<br>36065269162395  | Sequence 1-22 Non-I<br>nt in V1-HR4796A (<br>05) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1]   |
| <p><i>Comments: Position star to 3.50 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |   |  |   |       |
| 4  | HR4796A_<br>BAR5_3.25<br>pixUp_3x0.<br>1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03426<br>540598444787,0.161<br>20606070793667  | Sequence 1-22 Non-I<br>nt in V1-HR4796A (<br>05) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1]   |
| <p><i>Comments: Position star to 3.25 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |   |  |   |       |
| 5  | HR4796A_<br>BAR5_3.00<br>pixUp_5x0.<br>1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.03162<br>960552410573,0.148<br>80559449963385  | Sequence 1-22 Non-I<br>nt in V1-HR4796A (<br>05) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1]   |
| <p><i>Comments: Position star to 3.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |   |  |   |       |
| 6  | HR4796A_<br>BAR5_2.75<br>pixUp_5x0.<br>1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.02899<br>3805063763582,0.13<br>640512829133103 | Sequence 1-22 Non-I<br>nt in V1-HR4796A (<br>05) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1]   |
| <p><i>Comments: Position star to 2.75 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |   |  |   |       |
| 7  | HR4796A_<br>BAR5_2.50<br>pixUp_5x0.<br>1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.02635<br>800460342144,0.124<br>00466208302821  | Sequence 1-22 Non-I<br>nt in V1-HR4796A (<br>05) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1]   |
| <p><i>Comments: Position star to 2.50 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |   |  |   |       |

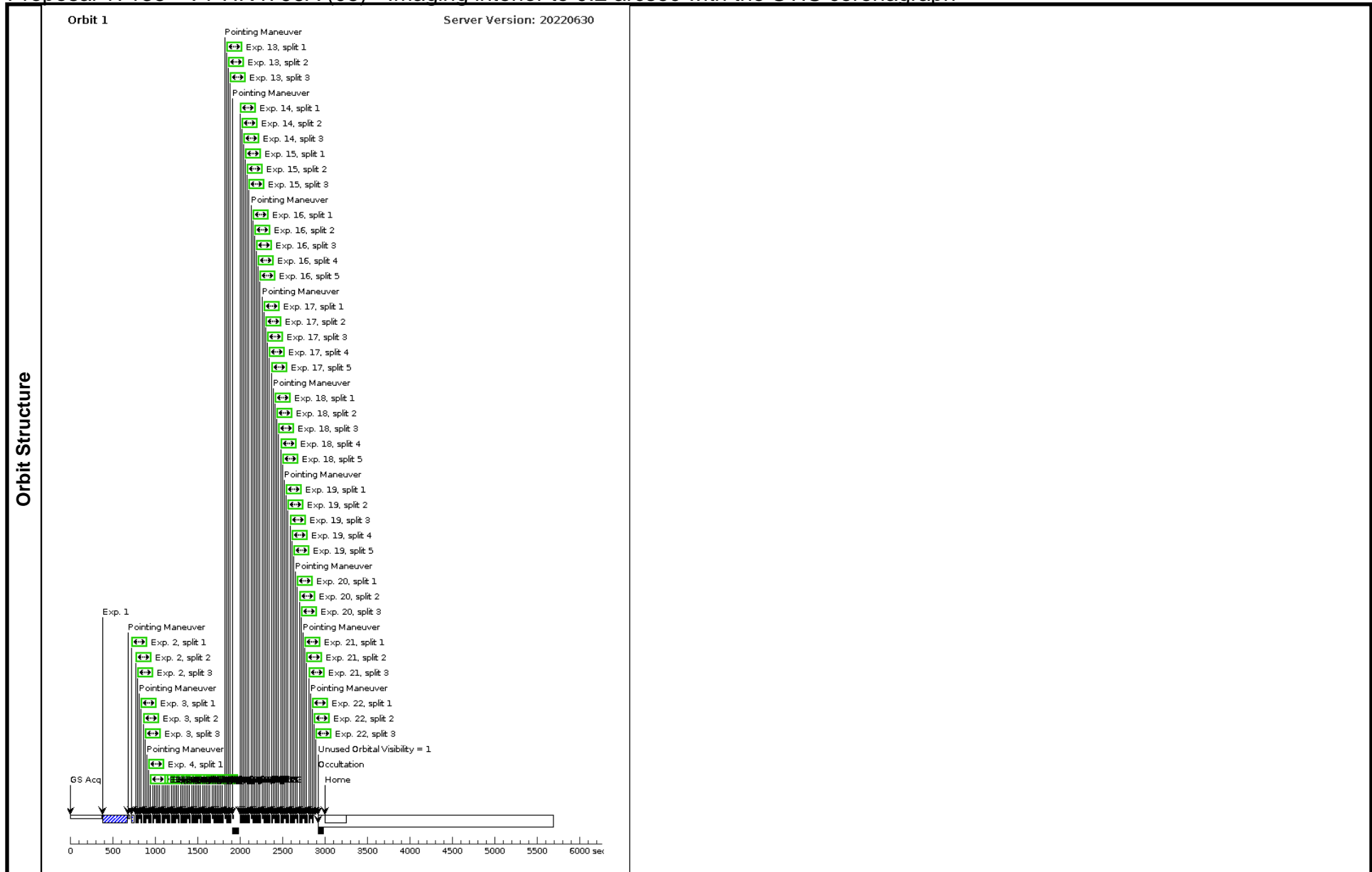
Proposal 17135 - V1-HR4796A (05) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |  |                       |        |  |   |  |   |     |
|--|--|-----------------------|--------|--|---|--|---|-----|
| 8  | HR4796A_ (1) HR-4796A<br>BAR5_2.25<br>pixUp_5x0.<br>2s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.02372<br>2204143079295,0.11<br>160419587472539   | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 1.0 Secs (1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 2.25 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 9  | HR4796A_ (1) HR-4796A<br>BAR5_2.00<br>pixUp_3x0.<br>3s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.02108<br>640368273715,0.099<br>20372966642257    | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 0.9 Secs (0.9 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 10   | HR4796A_ (1) HR-4796A<br>BAR5_2.00<br>pixUp_3x0.<br>2s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.02108<br>640368273715,0.099<br>20372966642257    | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 0.6 Secs (0.6 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 11   | HR4796A_ (1) HR-4796A<br>BAR5_1.00<br>pixUp_3x0.<br>8s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.01054<br>3201841368576,0.04<br>960186483321129   | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 2.4 Secs (2.4 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 1.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 12   | HR4796A_ (1) HR-4796A<br>BAR5_1.00<br>pixUp_3x0.<br>3s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.01054<br>3201841368576,0.04<br>960186483321129   | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 0.9 Secs (0.9 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 1.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 13   | HR4796A_ (1) HR-4796A<br>BAR5_1.00<br>pixDown_3<br>x0.8s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0105<br>43201841368576,-0.<br>04960186483321129 | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 2.4 Secs (2.4 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 1.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 14   | HR4796A_ (1) HR-4796A<br>BAR5_2.00<br>pixDown_3<br>x0.3s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0210<br>8640368273715,-0.0<br>9920372966642257  | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 0.9 Secs (0.9 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 15   | HR4796A_ (1) HR-4796A<br>BAR5_2.00<br>pixDown_3<br>x0.2s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0210<br>8640368273715,-0.0<br>9920372966642257  | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 0.6 Secs (0.6 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |

Proposal 17135 - V1-HR4796A (05) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |  |                       |        |  |   |  |   |     |
|--|--|-----------------------|--------|--|---|--|---|-----|
| 16   | HR4796A_ (1) HR-4796A<br>BAR5_2.25<br>pixDown_5<br>x0.2s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0237<br>22204143079295,-0.<br>11160419587472539 | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 1 Secs (1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)]     | [1] |
| <i>Comments: Position star to 2.25 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 17   | HR4796A_ (1) HR-4796A<br>BAR5_2.50<br>pixDown_5<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0263<br>5800460342144,-0.1<br>2400466208302821  | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 2.5 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 18   | HR4796A_ (1) HR-4796A<br>BAR5_2.75<br>pixDown_5<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0289<br>93805063763582,-0.<br>13640512829133103 | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 2.75 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 19   | HR4796A_ (1) HR-4796A<br>BAR5_3.00<br>pixDown_5<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0316<br>2960552410573,-0.1<br>4880559449963385  | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 3.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 20   | HR4796A_ (1) HR-4796A<br>BAR5_3.25<br>pixDown_3<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0342<br>6540598444787,-0.1<br>6120606070793667  | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1] |
| <i>Comments: Position star to 3.25 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 21   | HR4796A_ (1) HR-4796A<br>BAR5_3.50<br>pixDown_3<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0369<br>01206444790016,-0.<br>1736065269162395  | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1] |
| <i>Comments: Position star to 3.50 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 22   | HR4796A_ (1) HR-4796A<br>BAR5_4.00<br>pixDown_3<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0421<br>728073654743,-0.19<br>840745933284515   | Sequence 1-22 Non-I<br>nt in V1-HR4796A (05) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1] |
| <i>Comments: Position star to 4.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |

Proposal 17135 - V1-HR4796A (05) - Imaging interior to 0.2 arcsec with the STIS coronagraph



Proposal 17135 - V2-HR4796A (06) - Imaging interior to 0.2 arcsec with the STIS coronagraph

Mon Jul 03 15:01:02 GMT 2023

| <b>Visit</b>   | <b>Proposal 17135, V2-HR4796A (06), implementation</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: STIS/CCD<br>Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; SCHED 100%; ORIENT 0D TO 10 D; ORIENT 320D TO 359.9999 D; ORIENT 140D TO 180 D; ORIENT 230D TO 270 D; AFTER 05 BY 0 Orbits TO 1 Orbits<br><i>Comments: Absolute orient constrained for this orbit, with V1 and V4 rotated from it.</i>   |   |  |                          |                         |               |   |      |                    |                          |        |               |     |          |   |  |         |                         |
|--|---|---|--|--------------------------|-------------------------|---------------|---|------|--------------------|--------------------------|--------|---------------|-----|----------|---|--|---------|-------------------------|
|  | <b>Diagnosics</b><br>(V2-HR4796A (06)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE   |   |  |                          |                         |               |   |      |                    |                          |        |               |     |          |   |  |         |                         |
| <b>Fixed Targets</b>   | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HR-4796A</td> <td>RA: 12 36 0.9568 (189.0039867d)<br/>Dec: -39 52 10.59 (-39.86961d)<br/>Equinox: J2000</td> <td>Proper Motion RA: -0.00483410349433121<br/>sec of time/yr<br/>Proper Motion Dec: -0.023879999980636057<br/>arcsec/yr<br/>Epoch of Position: 2015.5</td> <td>V=5.774</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> |   |  |                          |                         |               | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (1) | HR-4796A | RA: 12 36 0.9568 (189.0039867d)<br>Dec: -39 52 10.59 (-39.86961d)<br>Equinox: J2000 | Proper Motion RA: -0.00483410349433121<br>sec of time/yr<br>Proper Motion Dec: -0.023879999980636057<br>arcsec/yr<br>Epoch of Position: 2015.5 | V=5.774 | Reference Frame: SIMBAD |
|  | #   | Name  | Target Coordinates   | Targ. Coord. Corrections | Fluxes                  | Miscellaneous |   |      |                    |                          |        |               |     |          |   |  |         |                         |
| (1)  | HR-4796A  | RA: 12 36 0.9568 (189.0039867d)<br>Dec: -39 52 10.59 (-39.86961d)<br>Equinox: J2000 | Proper Motion RA: -0.00483410349433121<br>sec of time/yr<br>Proper Motion Dec: -0.023879999980636057<br>arcsec/yr<br>Epoch of Position: 2015.5 | V=5.774                  | Reference Frame: SIMBAD |               |   |      |                    |                          |        |               |     |          |   |  |         |                         |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i><br>Category=STAR<br>Description=[A0-A3 V-IV, DISK, PROTOPLANETARY DISK] |   |   |  |                          |                         |               |   |      |                    |                          |        |               |     |          |   |  |         |                         |

Proposal 17135 - V2-HR4796A (06) - Imaging interior to 0.2 arcsec with the STIS coronagraph

| #  | Label<br>(ETC Run)                        | Target       | Config,Mode,Aperture  | Spectral Els. | Opt. Params.                           | Special Reqs.   | Groups                                       | Exp. Time (Total)/[Actual Dur.]   | Orbit |
|--|---|--------------|-----------------------|---------------|--|---|--|---|-------|
| 1  | HR4796A_<br>ACQ<br>(STIS.ta.618<br>243)   | (1) HR-4796A | STIS/CCD, ACQ, F25ND3 | MIRROR        |  | GS ACQ SCENARI<br>O BASE1B3                               | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 0.1 Secs (0.1 Secs)<br>[==>]  | [1]   |
| <p><i>Comments: Acquisition parameters replicated from GO-13786</i></p> <p><i>V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second</i></p> <p><i>ETC Request ID: STIS.ta.618243</i></p> |   |              |                       |               |  |   |  |   |       |
| 2  | HR4796A_<br>BAR5_4.00<br>pixUp_3x0.<br>1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.04217<br>1206444790016,0.1984<br>0745933284515 | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1]   |
| <p><i>Comments: Position star to 4.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |   |  |   |       |
| 3  | HR4796A_<br>BAR5_3.50<br>pixUp_3x0.<br>1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03690<br>1206444790016,0.17<br>36065269162395  | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1]   |
| <p><i>Comments: Position star to 3.50 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |   |  |   |       |
| 4  | HR4796A_<br>BAR5_3.25<br>pixUp_3x0.<br>1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03426<br>540598444787,0.161<br>20606070793667  | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1]   |
| <p><i>Comments: Position star to 3.25 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |   |  |   |       |
| 5  | HR4796A_<br>BAR5_3.00<br>pixUp_5x0.<br>1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.03162<br>960552410573,0.148<br>80559449963385  | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1]   |
| <p><i>Comments: Position star to 3.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |   |  |   |       |
| 6  | HR4796A_<br>BAR5_2.75<br>pixUp_5x0.<br>1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.02899<br>3805063763582,0.13<br>640512829133103 | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1]   |
| <p><i>Comments: Position star to 2.75 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |   |  |   |       |
| 7  | HR4796A_<br>BAR5_2.50<br>pixUp_5x0.<br>1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.02635<br>800460342144,0.124<br>00466208302821  | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1]   |
| <p><i>Comments: Position star to 2.50 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |   |              |                       |               |  |   |  |   |       |

Proposal 17135 - V2-HR4796A (06) - Imaging interior to 0.2 arcsec with the STIS coronagraph

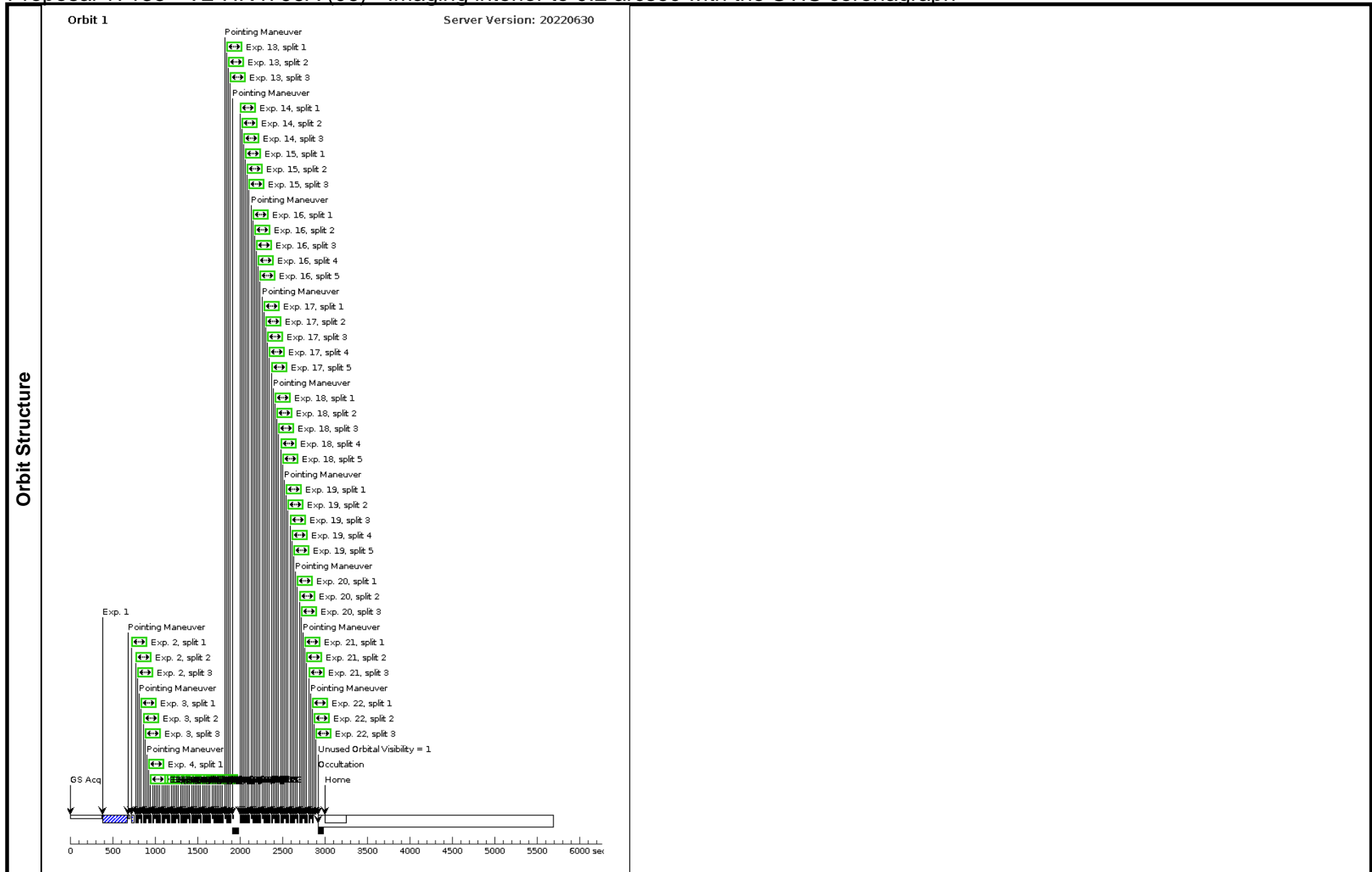
|  |  |                       |        |  |   |  |   |     |
|--|--|-----------------------|--------|--|---|--|---|-----|
| 8  | HR4796A_ (1) HR-4796A<br>BAR5_2.25<br>pixUp_5x0.<br>2s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.02372<br>2204143079295,0.11<br>160419587472539   | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 1.0 Secs (1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 2.25 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 9  | HR4796A_ (1) HR-4796A<br>BAR5_2.00<br>pixUp_3x0.<br>3s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.02108<br>640368273715,0.099<br>20372966642257    | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 0.9 Secs (0.9 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 10   | HR4796A_ (1) HR-4796A<br>BAR5_2.00<br>pixUp_3x0.<br>2s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.02108<br>640368273715,0.099<br>20372966642257    | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 0.6 Secs (0.6 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 11   | HR4796A_ (1) HR-4796A<br>BAR5_1.00<br>pixUp_3x0.<br>8s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.01054<br>3201841368576,0.04<br>960186483321129   | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 2.4 Secs (2.4 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 1.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 12   | HR4796A_ (1) HR-4796A<br>BAR5_1.00<br>pixUp_3x0.<br>3s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.01054<br>3201841368576,0.04<br>960186483321129   | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 0.9 Secs (0.9 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 1.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 13   | HR4796A_ (1) HR-4796A<br>BAR5_1.00<br>pixDown_3<br>x0.8s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0105<br>43201841368576,-0.<br>04960186483321129 | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 2.4 Secs (2.4 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 1.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 14   | HR4796A_ (1) HR-4796A<br>BAR5_2.00<br>pixDown_3<br>x0.3s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0210<br>8640368273715,-0.0<br>9920372966642257  | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 0.9 Secs (0.9 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 15   | HR4796A_ (1) HR-4796A<br>BAR5_2.00<br>pixDown_3<br>x0.2s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0210<br>8640368273715,-0.0<br>9920372966642257  | Sequence 1-22 Non-I<br>nt in V2-HR4796A (06) | 0.6 Secs (0.6 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |

Proposal 17135 - V2-HR4796A (06) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |  |                       |        |  |   |  |   |     |
|--|--|-----------------------|--------|--|---|--|---|-----|
| 16   | HR4796A_ (1) HR-4796A<br>BAR5_2.25<br>pixDown_5<br>x0.2s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0237<br>22204143079295,-0.11160419587472539 | Sequence 1-22 Non-Int in V2-HR4796A (06) | 1 Secs (1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)]     | [1] |
| <i>Comments: Position star to 2.25 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 17   | HR4796A_ (1) HR-4796A<br>BAR5_2.50<br>pixDown_5<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0263<br>5800460342144,-0.12400466208302821  | Sequence 1-22 Non-Int in V2-HR4796A (06) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 2.5 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 18   | HR4796A_ (1) HR-4796A<br>BAR5_2.75<br>pixDown_5<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0289<br>93805063763582,-0.13640512829133103 | Sequence 1-22 Non-Int in V2-HR4796A (06) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 2.75 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 19   | HR4796A_ (1) HR-4796A<br>BAR5_3.00<br>pixDown_5<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0316<br>2960552410573,-0.14880559449963385  | Sequence 1-22 Non-Int in V2-HR4796A (06) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 3.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 20   | HR4796A_ (1) HR-4796A<br>BAR5_3.25<br>pixDown_3<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0342<br>6540598444787,-0.16120606070793667  | Sequence 1-22 Non-Int in V2-HR4796A (06) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1] |
| <i>Comments: Position star to 3.25 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 21   | HR4796A_ (1) HR-4796A<br>BAR5_3.50<br>pixDown_3<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0369<br>01206444790016,-0.1736065269162395  | Sequence 1-22 Non-Int in V2-HR4796A (06) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1] |
| <i>Comments: Position star to 3.50 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 22   | HR4796A_ (1) HR-4796A<br>BAR5_4.00<br>pixDown_3<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0421<br>728073654743,-0.1840745933284515    | Sequence 1-22 Non-Int in V2-HR4796A (06) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1] |
| <i>Comments: Position star to 4.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |



Proposal 17135 - V2-HR4796A (06) - Imaging interior to 0.2 arcsec with the STIS coronagraph



Proposal 17135 - V3-HR4735-PSF (07) - Imaging interior to 0.2 arcsec with the STIS coronagraph

Mon Jul 03 15:01:02 GMT 2023

| <b>Visit</b>         | <b>Proposal 17135, V3-HR4735-PSF (07), implementation</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: STIS/CCD<br>Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; SCHED 100%; AFTER 06 BY 0 Orbits TO 1 Orbits<br><i>Comments: PSF star for HR 4796 A.</i>   |  |   |                          |                          |               |               |     |         |  |   |         |                         |  |  |  |  |  |
|----------------------|--|--|---|--------------------------|--------------------------|---------------|---------------|-----|---------|--|---|---------|-------------------------|--|--|--|--|--|
|                      | <b>Diagnosics</b><br>(V3-HR4735-PSF (07)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE   |  |   |                          |                          |               |               |     |         |  |   |         |                         |  |  |  |  |  |
| <b>Fixed Targets</b> | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>HR-4735</td> <td>                     RA: 12 26 51.6779 (186.7153246d)<br/>                     Dec: -32 49 48.88 (-32.83024d)<br/>                     Equinox: J2000                 </td> <td>                     Proper Motion RA: -9.028730739523227E-4<br/>                     sec of time/yr<br/>                     Proper Motion Dec: -0.028128999929322163<br/>                     arcsec/yr<br/>                     Epoch of Position: 2015.5                 </td> <td>V=5.558</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> | #  | Name  | Target Coordinates       | Targ. Coord. Corrections | Fluxes        | Miscellaneous | (2) | HR-4735 | RA: 12 26 51.6779 (186.7153246d)<br>Dec: -32 49 48.88 (-32.83024d)<br>Equinox: J2000 | Proper Motion RA: -9.028730739523227E-4<br>sec of time/yr<br>Proper Motion Dec: -0.028128999929322163<br>arcsec/yr<br>Epoch of Position: 2015.5 | V=5.558 | Reference Frame: SIMBAD | <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i><br>Category=STAR<br>Description=[M III-I] |  |  |  |  |
|                      | #  | Name   | Target Coordinates  | Targ. Coord. Corrections | Fluxes                   | Miscellaneous |               |     |         |  |   |         |                         |  |  |  |  |  |
| (2)                  | HR-4735  | RA: 12 26 51.6779 (186.7153246d)<br>Dec: -32 49 48.88 (-32.83024d)<br>Equinox: J2000 | Proper Motion RA: -9.028730739523227E-4<br>sec of time/yr<br>Proper Motion Dec: -0.028128999929322163<br>arcsec/yr<br>Epoch of Position: 2015.5 | V=5.558                  | Reference Frame: SIMBAD  |               |               |     |         |  |   |         |                         |  |  |  |  |  |
|                      |  |  |   |                          |                          |               |               |     |         |  |   |         |                         |  |  |  |  |  |

Proposal 17135 - V3-HR4735-PSF (07) - Imaging interior to 0.2 arcsec with the STIS coronagraph

| #  | Label (ETC Run)                        | Target      | Config,Mode,Aperture  | Spectral Els. | Opt. Params.                           | Special Reqs.   | Groups  | Exp. Time (Total)/[Actual Dur.]   | Orbit |
|--|--|-------------|-----------------------|---------------|--|---|---|---|-------|
| 1  | HR4735_A<br>CQ<br>(STIS.ta.618<br>243) | (2) HR-4735 | STIS/CCD, ACQ, F25ND3 | MIRROR        |  | GS ACQ SCENARI<br>O BASE1B3                               | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.1 Secs (0.1 Secs)<br>[==>]  | [1]   |
| <p><i>Comments: Acquisition parameters replicated from GO-13786</i></p> <p><i>V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second</i></p> <p><i>ETC Request ID: STIS.ta.618243</i></p> |  |             |                       |               |  |   |   |   |       |
| 2  | HR4735_B<br>AR5_4.00pi<br>xUp_3x0.1s   | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.04217<br>1206444790016,0.1984<br>0745933284515 | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1]   |
| <p><i>Comments: Position star to 4.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |  |             |                       |               |  |   |   |   |       |
| 3  | HR4735_B<br>AR5_3.50pi<br>xUp_3x0.1s   | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03690<br>1206444790016,0.17<br>36065269162395  | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1]   |
| <p><i>Comments: Position star to 3.50 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |  |             |                       |               |  |   |   |   |       |
| 4  | HR4735_B<br>AR5_3.25pi<br>xUp_3x0.1s   | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03426<br>540598444787,0.161<br>20606070793667  | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1]   |
| <p><i>Comments: Position star to 3.25 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |  |             |                       |               |  |   |   |   |       |
| 5  | HR4735_B<br>AR5_3.00pi<br>xUp_5x0.1s   | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.03162<br>960552410573,0.148<br>80559449963385  | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1]   |
| <p><i>Comments: Position star to 3.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |  |             |                       |               |  |   |   |   |       |
| 6  | HR4735_B<br>AR5_2.75pi<br>xUp_5x0.1s   | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.02899<br>3805063763582,0.13<br>640512829133103 | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1]   |
| <p><i>Comments: Position star to 3.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |  |             |                       |               |  |   |   |   |       |
| 7  | HR4735_B<br>AR5_2.50pi<br>xUp_5x0.1s   | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.02635<br>800460342144,0.124<br>00466208302821  | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1]   |
| <p><i>Comments: Position star to 3.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |  |             |                       |               |  |   |   |   |       |

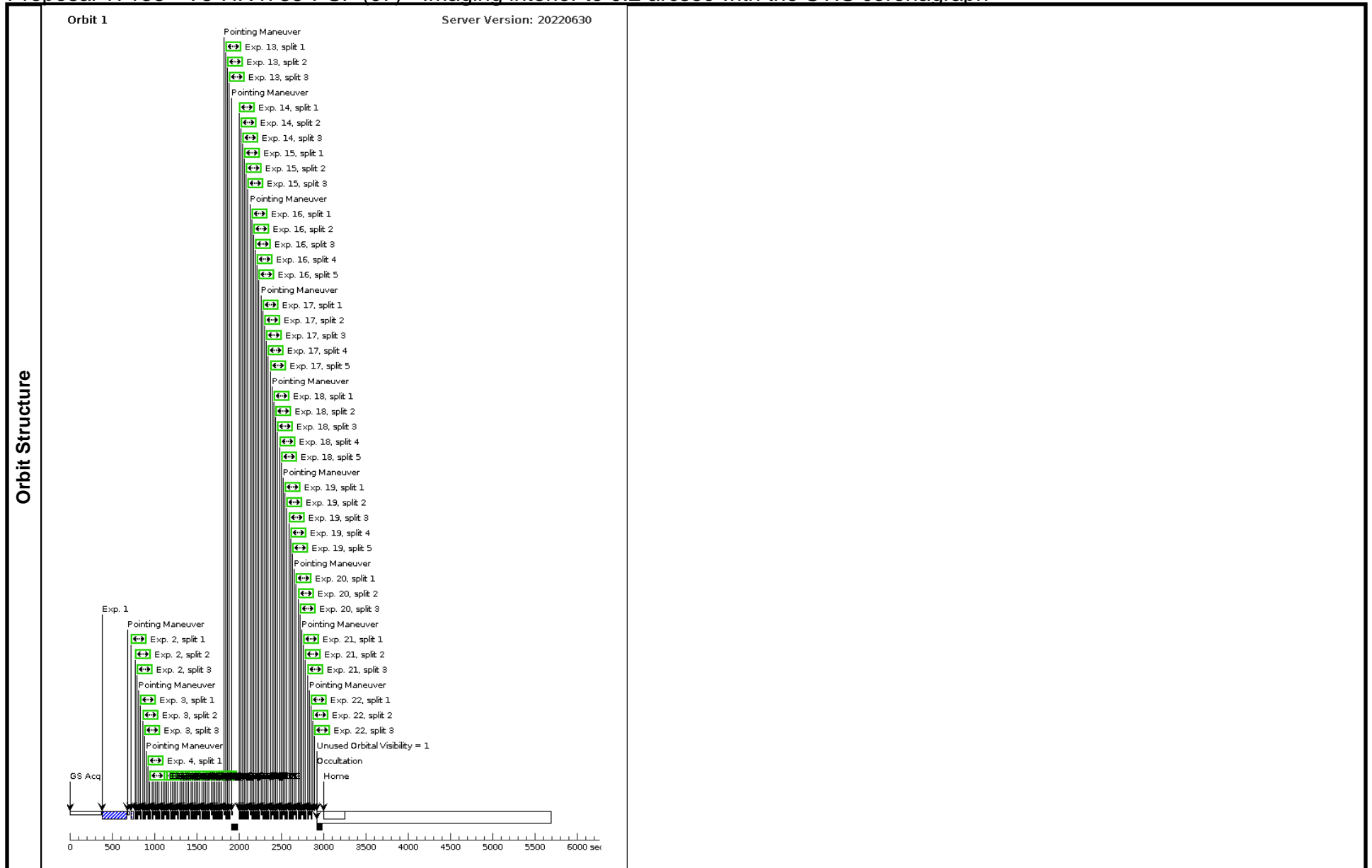
Proposal 17135 - V3-HR4735-PSF (07) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |  |             |                       |        |  |   |   |   |     |
|--|--|-------------|-----------------------|--------|--|---|---|---|-----|
| 8  | HR4735_B<br>AR5_2.25pi<br>xUp_5x0.2s       | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.02372<br>2204143079295,0.11<br>160419587472539   | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 1.0 Secs (1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 3.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |             |                       |        |  |   |   |   |     |
| 9  | HR4735_B<br>AR5_2.00pi<br>xUp_3x0.3s       | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.02108<br>640368273715,0.099<br>20372966642257    | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.9 Secs (0.9 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |             |                       |        |  |   |   |   |     |
| 10   | HR4735_B<br>AR5_2.00pi<br>xUp_3x0.2s       | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.02108<br>640368273715,0.099<br>20372966642257    | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.6 Secs (0.6 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |             |                       |        |  |   |   |   |     |
| 11   | HR4735_B<br>AR5_1.00pi<br>xUp_3x0.7s       | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.01054<br>3201841368576,0.04<br>960186483321129   | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 2.1 Secs (2.1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |             |                       |        |  |   |   |   |     |
| 12   | HR4735_B<br>AR5_1.00pi<br>xUp_3x0.3s       | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.01054<br>3201841368576,0.04<br>960186483321129   | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.9 Secs (0.9 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |             |                       |        |  |   |   |   |     |
| 13   | HR4735_B<br>AR5_1.00pi<br>xDown_3x0.<br>7s | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0105<br>43201841368576,-0.<br>04960186483321129 | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 2.1 Secs (2.1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |             |                       |        |  |   |   |   |     |
| 14   | HR4735_B<br>AR5_2.00pi<br>xDown_3x0.<br>3s | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0210<br>8640368273715,-0.0<br>9920372966642257  | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.9 Secs (0.9 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |             |                       |        |  |   |   |   |     |
| 15   | HR4735_B<br>AR5_2.00pi<br>xDown_3x0.<br>2s | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0210<br>8640368273715,-0.0<br>9920372966642257  | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.6 Secs (0.6 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |             |                       |        |  |   |   |   |     |

Proposal 17135 - V3-HR4735-PSF (07) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |  |             |                       |        |  |   |   |   |     |
|--|--|-------------|-----------------------|--------|--|---|---|---|-----|
| 16   | HR4735_B<br>AR5_2.25pi<br>xDown_5x0.<br>2s | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0237<br>22204143079295,-0.<br>11160419587472539 | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 1 Secs (1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)]     | [1] |
| <i>Comments: Position star to 2.25 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |             |                       |        |  |   |   |   |     |
| 17   | HR4735_B<br>AR5_2.50pi<br>xDown_5x0.<br>1s | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0263<br>5800460342144,-0.1<br>2400466208302821  | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 2.50 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |             |                       |        |  |   |   |   |     |
| 18   | HR4735_B<br>AR5_2.75pi<br>xDown_5x0.<br>1s | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0289<br>93805063763582,-0.<br>13640512829133103 | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 2.75 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |             |                       |        |  |   |   |   |     |
| 19   | HR4735_B<br>AR5_3.00pi<br>xDown_5x0.<br>1s | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0316<br>2960552410573,-0.1<br>4880559449963385  | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 3.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |             |                       |        |  |   |   |   |     |
| 20   | HR4735_B<br>AR5_3.25pi<br>xDown_3x0.<br>1s | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0342<br>6540598444787,-0.1<br>6120606070793667  | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1] |
| <i>Comments: Position star to 3.25 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |             |                       |        |  |   |   |   |     |
| 21   | HR4735_B<br>AR5_3.50pi<br>xDown_3x0.<br>1s | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0369<br>01206444790016,-0.<br>1736065269162395  | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1] |
| <i>Comments: Position star to 3.50 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |             |                       |        |  |   |   |   |     |
| 22   | HR4735_B<br>AR5_4.00pi<br>xDown_3x0.<br>1s | (2) HR-4735 | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0421<br>728073654743,-0.19<br>840745933284515   | Sequence 1-22 Non-I<br>nt in V3-HR4735-PS<br>F (07) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1] |
| <i>Comments: Position star to 4.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |             |                       |        |  |   |   |   |     |

Proposal 17135 - V3-HR4735-PSF (07) - Imaging interior to 0.2 arcsec with the STIS coronagraph



Proposal 17135 - V4-HR4796A (08) - Imaging interior to 0.2 arcsec with the STIS coronagraph

Mon Jul 03 15:01:02 GMT 2023

| <b>Visit</b>   | <b>Proposal 17135, V4-HR4796A (08), implementation</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: STIS/CCD<br>Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; SCHED 100%; ORIENT -25D TO -15D FROM 06; AFTER 07 BY 0 Orbits TO 1 Orbits<br><i>Comments: Orientation: We wish to schedule this visit (1) at ideally -22.5 deg from Visit 2 (at least -15 deg), with the absolute orientation of Visit 2 constrained.</i>  |   |  |                          |                         |               |      |                    |                          |        |               |     |          |   |  |         |                         |
|--|---|---|--|--------------------------|-------------------------|---------------|------|--------------------|--------------------------|--------|---------------|-----|----------|---|--|---------|-------------------------|
|  | <b>Diagnosics</b><br>(V4-HR4796A (08)) Warning (Orbit Planner): REFERENCE-FRAME MUST BE ICRS OR GSC1 FOR SMALL APERTURE<br>(V4-HR4796A (08)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.  |   |  |                          |                         |               |      |                    |                          |        |               |     |          |   |  |         |                         |
| <b>Fixed Targets</b>   | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HR-4796A</td> <td>RA: 12 36 0.9568 (189.0039867d)<br/>Dec: -39 52 10.59 (-39.86961d)<br/>Equinox: J2000</td> <td>Proper Motion RA: -0.00483410349433121<br/>sec of time/yr<br/>Proper Motion Dec: -0.023879999980636057<br/>arcsec/yr<br/>Epoch of Position: 2015.5</td> <td>V=5.774</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> |   |  |                          |                         | #             | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (1) | HR-4796A | RA: 12 36 0.9568 (189.0039867d)<br>Dec: -39 52 10.59 (-39.86961d)<br>Equinox: J2000 | Proper Motion RA: -0.00483410349433121<br>sec of time/yr<br>Proper Motion Dec: -0.023879999980636057<br>arcsec/yr<br>Epoch of Position: 2015.5 | V=5.774 | Reference Frame: SIMBAD |
|  | #   | Name  | Target Coordinates   | Targ. Coord. Corrections | Fluxes                  | Miscellaneous |      |                    |                          |        |               |     |          |   |  |         |                         |
| (1)  | HR-4796A  | RA: 12 36 0.9568 (189.0039867d)<br>Dec: -39 52 10.59 (-39.86961d)<br>Equinox: J2000 | Proper Motion RA: -0.00483410349433121<br>sec of time/yr<br>Proper Motion Dec: -0.023879999980636057<br>arcsec/yr<br>Epoch of Position: 2015.5 | V=5.774                  | Reference Frame: SIMBAD |               |      |                    |                          |        |               |     |          |   |  |         |                         |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i><br>Category=STAR<br>Description=[A0-A3 V-IV, DISK, PROTOPLANETARY DISK] |   |   |  |                          |                         |               |      |                    |                          |        |               |     |          |   |  |         |                         |

Proposal 17135 - V4-HR4796A (08) - Imaging interior to 0.2 arcsec with the STIS coronagraph

| #  | Label (ETC Run)                 | Target       | Config,Mode,Aperture  | Spectral Els. | Opt. Params.                           | Special Reqs.                                       | Groups                                   | Exp. Time (Total)/[Actual Dur.]   | Orbit |
|--|---------------------------------|--------------|-----------------------|---------------|--|---|--|---|-------|
| 1  | HR4796A_ ACQ (STIS.ta.618243)   | (1) HR-4796A | STIS/CCD, ACQ, F25ND3 | MIRROR        |  | GS ACQ SCENARIO BASE1B3                             | Sequence 1-22 Non-Int in V4-HR4796A (08) | 0.1 Secs (0.1 Secs)<br>[==>]  | [1]   |
| <p><i>Comments: Acquisition parameters replicated from GO-13786</i></p> <p><i>V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second</i></p> <p><i>ETC Request ID: STIS.ta.618243</i></p> |                                 |              |                       |               |  |   |  |   |       |
| 2  | HR4796A_ BAR5_4.00 pixUp_3x0.1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.04217 1206444790016,0.1984 0745933284515 | Sequence 1-22 Non-Int in V4-HR4796A (08) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1]   |
| <p><i>Comments: Position star to 4.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |                                 |              |                       |               |  |   |  |   |       |
| 3  | HR4796A_ BAR5_3.50 pixUp_3x0.1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03690 1206444790016,0.17 36065269162395  | Sequence 1-22 Non-Int in V4-HR4796A (08) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1]   |
| <p><i>Comments: Position star to 3.50 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |                                 |              |                       |               |  |   |  |   |       |
| 4  | HR4796A_ BAR5_3.25 pixUp_3x0.1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.03426 540598444787,0.161 20606070793667  | Sequence 1-22 Non-Int in V4-HR4796A (08) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1]   |
| <p><i>Comments: Position star to 3.25 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |                                 |              |                       |               |  |   |  |   |       |
| 5  | HR4796A_ BAR5_3.00 pixUp_5x0.1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.03162 960552410573,0.148 80559449963385  | Sequence 1-22 Non-Int in V4-HR4796A (08) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1]   |
| <p><i>Comments: Position star to 3.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |                                 |              |                       |               |  |   |  |   |       |
| 6  | HR4796A_ BAR5_2.75 pixUp_5x0.1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.02899 3805063763582,0.13 640512829133103 | Sequence 1-22 Non-Int in V4-HR4796A (08) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1]   |
| <p><i>Comments: Position star to 2.75 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |                                 |              |                       |               |  |   |  |   |       |
| 7  | HR4796A_ BAR5_2.50 pixUp_5x0.1s | (1) HR-4796A | STIS/CCD, ACCUM, BAR5 | MIRROR        | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.02635 800460342144,0.124 00466208302821  | Sequence 1-22 Non-Int in V4-HR4796A (08) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1]   |
| <p><i>Comments: Position star to 2.50 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i></p>   |                                 |              |                       |               |  |   |  |   |       |



Proposal 17135 - V4-HR4796A (08) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |  |                       |        |  |   |  |   |     |
|--|--|-----------------------|--------|--|---|--|---|-----|
| 8  | HR4796A_ (1) HR-4796A<br>BAR5_2.25<br>pixUp_5x0.<br>2s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG 0.02372<br>2204143079295,0.11<br>160419587472539   | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 1.0 Secs (1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 2.25 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 9  | HR4796A_ (1) HR-4796A<br>BAR5_2.00<br>pixUp_3x0.<br>3s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.02108<br>640368273715,0.099<br>20372966642257    | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 0.9 Secs (0.9 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 10   | HR4796A_ (1) HR-4796A<br>BAR5_2.00<br>pixUp_3x0.<br>2s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.02108<br>640368273715,0.099<br>20372966642257    | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 0.6 Secs (0.6 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 11   | HR4796A_ (1) HR-4796A<br>BAR5_1.00<br>pixUp_3x0.<br>8s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.01054<br>3201841368576,0.04<br>960186483321129   | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 2.4 Secs (2.4 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 1.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 12   | HR4796A_ (1) HR-4796A<br>BAR5_1.00<br>pixUp_3x0.<br>3s   | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG 0.01054<br>3201841368576,0.04<br>960186483321129   | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 0.9 Secs (0.9 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 1.00 pixel upwards from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i>  |  |                       |        |  |   |  |   |     |
| 13   | HR4796A_ (1) HR-4796A<br>BAR5_1.00<br>pixDown_3<br>x0.8s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0105<br>43201841368576,-0.<br>04960186483321129 | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 2.4 Secs (2.4 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 1.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 14   | HR4796A_ (1) HR-4796A<br>BAR5_2.00<br>pixDown_3<br>x0.3s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0210<br>8640368273715,-0.0<br>9920372966642257  | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 0.9 Secs (0.9 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 15   | HR4796A_ (1) HR-4796A<br>BAR5_2.00<br>pixDown_3<br>x0.2s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0210<br>8640368273715,-0.0<br>9920372966642257  | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 0.6 Secs (0.6 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                   | [1] |
| <i>Comments: Position star to 2.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |

Proposal 17135 - V4-HR4796A (08) - Imaging interior to 0.2 arcsec with the STIS coronagraph

|  |  |                       |        |  |   |  |   |     |
|--|--|-----------------------|--------|--|---|--|---|-----|
| 16   | HR4796A_ (1) HR-4796A<br>BAR5_2.25<br>pixDown_5<br>x0.2s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0237<br>22204143079295,-0.<br>11160419587472539 | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 1 Secs (1 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)]     | [1] |
| <i>Comments: Position star to 2.25 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 17   | HR4796A_ (1) HR-4796A<br>BAR5_2.50<br>pixDown_5<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0263<br>5800460342144,-0.1<br>2400466208302821  | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 2.50 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 18   | HR4796A_ (1) HR-4796A<br>BAR5_2.75<br>pixDown_5<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0289<br>93805063763582,-0.<br>13640512829133103 | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 2.75 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 19   | HR4796A_ (1) HR-4796A<br>BAR5_3.00<br>pixDown_5<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=5;<br>GAIN=4 | POS TARG -0.0316<br>2960552410573,-0.1<br>4880559449963385  | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 0.5 Secs (0.5 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]<br>[==>(Split 4)]<br>[==>(Split 5)] | [1] |
| <i>Comments: Position star to 3.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 20   | HR4796A_ (1) HR-4796A<br>BAR5_3.25<br>pixDown_3<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0342<br>6540598444787,-0.1<br>6120606070793667  | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1] |
| <i>Comments: Position star to 3.25 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 21   | HR4796A_ (1) HR-4796A<br>BAR5_3.50<br>pixDown_3<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0369<br>01206444790016,-0.<br>1736065269162395  | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1] |
| <i>Comments: Position star to 3.50 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |
| 22   | HR4796A_ (1) HR-4796A<br>BAR5_4.00<br>pixDown_3<br>x0.1s | STIS/CCD, ACCUM, BAR5 | MIRROR | SIZEAXIS2=60;<br>CR-SPLIT=3;<br>GAIN=4 | POS TARG -0.0421<br>728073654743,-0.19<br>840745933284515   | Sequence 1-22 Non-I<br>nt in V4-HR4796A (08) | 0.3 Secs (0.3 Secs)<br>[==>(Split 1)]<br>[==>(Split 2)]<br>[==>(Split 3)]                                     | [1] |
| <i>Comments: Position star to 4.00 pixel downward from the BAR5 occulting location (perpendicular to the BAR5 occulter).</i> |  |                       |        |  |   |  |   |     |

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