13786 - Decoding Debris System Substructures: Imprints of Planets/Planetesimals and Signatures of Extrinsic Influences on Material in Ring-Like Disks

Cycle: 22, Proposal Category: GO

(Availability Mode: AVAILABLE)

INVESTIGATORS

Name	*Institution*	*E-Mail*
Dr. Glenn Schneider (PI) (Contact)	**University of Arizona**	**gschneider@as.arizona.edu**
Dr. Joseph Carson (CoI)	College of Charleston	carsonjc@cofc.edu
Dr. John Henry Debes (CoI)	Space Telescope Science Institute	debes@stsci.edu
Dr. Andras Gaspar (CoI)	University of Arizona	agaspar@as.arizona.edu
Dr. Carol A. Grady (CoI)	Eureka Scientific Inc.	carol.a.grady@nasa.gov
Prof. Thomas K. Henning (CoI) (ESA Member)	Max-Planck-Institut fur Astronomie, Heidelberg	henning@mpia-hd.mpg.de
Dr. Dean C. Hines (CoI)	Space Telescope Science Institute	hines@stsci.edu
Dr. Philip M. Hinz (CoI)	University of Arizona	phinz@as.arizona.edu
Dr. Hannah Jang-Condell (CoI)	University of Wyoming	hjangcon@uwyo.edu
Dr. Marc Jason Kuchner (CoI)	NASA Goddard Space Flight Center	marc.kuchner@nasa.gov
Dr. Amaya Moro-Martin (CoI)	Space Telescope Science Institute	amaya@stsci.edu
Dr. Marshall Perrin (CoI)	Space Telescope Science Institute	mperrin@stsci.edu
Dr. Timothy J. Rodigas (CoI)	Carnegie Institution of Washington	timothyjrodigas@gmail.com
Dr. Gene Serabyn (CoI)	Jet Propulsion Laboratory	gene.serabyn@jpl.nasa.gov
Dr. Murray D. Silverstone (CoI)	Eureka Scientific Inc.	mdsilverstone@ua.edu
Dr. Christopher C. Stark (CoI)	Space Telescope Science Institute	cstark@stsci.edu
Dr. M. Tamura (CoI)	National Astronomical Observatory of Japan (NAOJ)	motohide.tamura@nao.ac.jp
Dr. Alycia J. Weinberger (CoI)	Carnegie Institution of Washington	alycia@dtm.ciw.edu
Dr. John P. Wisniewski (CoI)	University of Oklahoma Norman Campus	wisniewski@ou.edu

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) HD-202628	STIS/CCD	1	05-Aug-2015 21:05:39.0	yes
02	(1) HD-202628	STIS/CCD	1	05-Aug-2015 21:05:42.0	yes
03	(11) PSF01B-HR8042-HD202628	STIS/CCD	1	05-Aug-2015 21:05:45.0	yes
04	(1) HD-202628	STIS/CCD	1	05-Aug-2015 21:05:48.0	yes
05	(1) HD-202628	STIS/CCD	1	05-Aug-2015 21:05:50.0	yes
06	(1) HD-202628	STIS/CCD	1	05-Aug-2015 21:05:53.0	yes
07	(6) PSF01-BX-MIC-HD202628	STIS/CCD	1	05-Aug-2015 21:05:55.0	yes
08	(1) HD-202628	STIS/CCD	1	05-Aug-2015 21:05:59.0	yes
11	(2) HD-207129	STIS/CCD	1	05-Aug-2015 21:06:02.0	yes
12	(2) HD-207129	STIS/CCD	1	05-Aug-2015 21:06:05.0	yes
13	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD	1	05-Aug-2015 21:06:08.0	yes
14	(2) HD-207129	STIS/CCD	1	05-Aug-2015 21:06:12.0	yes
15	(2) HD-207129	STIS/CCD	1	05-Aug-2015 21:06:16.0	yes
16	(2) HD-207129	STIS/CCD	1	05-Aug-2015 21:06:19.0	yes
17	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD	1	05-Aug-2015 21:06:22.0	yes
18	(2) HD-207129	STIS/CCD	1	05-Aug-2015 21:06:25.0	yes
21	(3) HD-202917	STIS/CCD	1	05-Aug-2015 21:06:27.0	yes
22	(3) HD-202917	STIS/CCD	1	05-Aug-2015 21:06:29.0	yes
23	(8) PSF03-LTT8893-HD202917	STIS/CCD	1	05-Aug-2015 21:06:30.0	yes
24	(3) HD-202917	STIS/CCD	1	05-Aug-2015 21:06:31.0	yes
25	(3) HD-202917	STIS/CCD	1	05-Aug-2015 21:06:32.0	yes
26	(3) HD-202917	STIS/CCD	1	05-Aug-2015 21:06:34.0	yes
27	(8) PSF03-LTT8893-HD202917	STIS/CCD	1	05-Aug-2015 21:06:35.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
28	(3) HD-202917	STIS/CCD	1	05-Aug-2015 21:06:36.0	yes
31	(4) HD-141569	STIS/CCD	1	05-Aug-2015 21:06:39.0	yes
32	(4) HD-141569	STIS/CCD	1	05-Aug-2015 21:06:41.0	yes
33	(9) PSF04-HD-135298-HD141569A	STIS/CCD	1	05-Aug-2015 21:06:44.0	yes
34	(4) HD-141569	STIS/CCD	1	05-Aug-2015 21:06:47.0	yes
35	(4) HD-141569	STIS/CCD	1	05-Aug-2015 21:06:50.0	yes
36	(4) HD-141569	STIS/CCD	1	05-Aug-2015 21:06:52.0	yes
37	(9) PSF04-HD-135298-HD141569A	STIS/CCD	1	05-Aug-2015 21:06:55.0	yes
38	(4) HD-141569	STIS/CCD	1	05-Aug-2015 21:06:57.0	yes
41	(5) HR-4796A	STIS/CCD	1	05-Aug-2015 21:07:00.0	yes
42	(5) HR-4796A	STIS/CCD	1	05-Aug-2015 21:07:03.0	yes
43	(10) PSF05-HR4735-HR4796A	STIS/CCD	1	05-Aug-2015 21:07:07.0	yes
44	(5) HR-4796A	STIS/CCD	1	05-Aug-2015 21:07:10.0	yes
45	(5) HR-4796A	STIS/CCD	1	05-Aug-2015 21:07:13.0	yes
46	(5) HR-4796A	STIS/CCD	1	05-Aug-2015 21:07:16.0	yes
47	(10) PSF05-HR4735-HR4796A	STIS/CCD	1	05-Aug-2015 21:07:20.0	yes
48	(5) HR-4796A	STIS/CCD	1	05-Aug-2015 21:07:23.0	yes
51	(3) HD-202917	STIS/CCD	1	05-Aug-2015 21:07:25.0	yes
52	(3) HD-202917	STIS/CCD	1	05-Aug-2015 21:07:26.0	yes
53	(8) PSF03-LTT8893-HD202917	STIS/CCD	1	05-Aug-2015 21:07:28.0	yes
54	(3) HD-202917	STIS/CCD	1	05-Aug-2015 21:07:30.0	yes
55	(3) HD-202917	STIS/CCD	1	05-Aug-2015 21:07:31.0	yes
56	(3) HD-202917	STIS/CCD	1	05-Aug-2015 21:07:32.0	yes
57	(8) PSF03-LTT8893-HD202917	STIS/CCD	1	05-Aug-2015 21:07:34.0	yes
58	(3) HD-202917	STIS/CCD	1	05-Aug-2015 21:07:35.0	yes

48 Total Orbits Used

ABSTRACT

How do circumstellar (CS) disks evolve and form planetary systems? Is our solar system's two-component debris disk (DD) typical? Are planets implicated by evidence of dynamical stirring in disks? Are DD architectures correlated with stellar mass? To address these highly-compelling questions of fundamental astrophysical import, we propose follow-up STIS coronagraphy of five intermediate-inclination ring-like DDs. These images will provide unprecedented clarity, sensitivity, and photometric efficacy to: 1) Study the spatial distribution of dust as close as 0.2" from the host stars enabling us to infer the existence and properties of unseen co-orbiting planets, and to probe disk-planet interactions across stellar ages and spectral types; 2) Provide spatially resolved imaging within DD regions previously unsampled to significantly improve constraints on disk grain properties and radial segregation of grain populations as a function of stellocentric distance (and thus temperature); 3) Produce high-fidelity images of DD substructures for dynamical interpretation, constraining the possibilities for planetary system architectures; 4) Obtain deep images of regions beyond the primary, bright debris features to study small-grain populations that might be unbound from the system and affected by both extrinsic and intrinsic forces and may inform about the level of dynamical activity in the planetesimal belt; 5) Provide, through the HLA, the highest quality and most complete, value-added data products for a seminal legacy data set of spatially resolvable light-scattering DDs, thus enabling multi-wavelength investigations with new and future ground- and space-based facilities.

OBSERVING DESCRIPTION

TARGETS & OCCULTING APERTURES

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In GO 13786 we observe five debris disk hosting stars, and five B-V color-matched PSF template stars, in relatively close proximity on the sky (within ~ 10 deg) with STIS coronagraphy.

The first three disk hosts (HD202628, HD207129, and HD202917) on the target list are G-type stars and we observe them and their paired PSF template stars with both the STIS WedgeA0.6 and Wedge1.0A occulting apertures.

The last two disk hosts (HD14156 and HR4796) on the target list are A-type stars and we observe them and their paired PSF template stars with both the STIS BAR5 and Wedge1.0A occulting apertures.

*** Note to PC and CS: The use of the BAR5 occulter was commissioned (by us) in GO program 12923, but is syntactically unavailable in APT 22.2. Additionally, its fiducial SIAF position as a result our astrometric calibrations has not (yet) been updated in the PDB SIAF.dat file or flowed down to other elements of the ground system. Therefore, to make use of the BAR5 aperture, we define our reference pointings using the BAR10 position mnemonically in APT with POS TARGs to offset to the mid-line and +/- 1/4-pixel dithered positions we use to observe with BAR5 in this program.

*** NOTE TO PC: We assume *NO* BAR10 updates to its reference pixel position in the PDB/SIAF.dat file (or ground system population) since our GO program 12923. If this is altered, before GO 13786 executes, we must update our POS TARGs accordingly. If BAR5 becomes defined in the PDB SIAF.DAT and ground system S/W with the GO 12923 recommended position this proposal can be updated accordingly (but not necessary unless the BAR10 definition is changed).

EIGHT SINGLE-ORBIT VISIT STRUCTURES FOR TARGET+PSF STARS
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Each disk-host target and its color-matched PSF star are observed in two sets of four sequential (back to back) single-orbit visits (eight orbits total per target+psf star). Within four orbits within each set of four must be "back to back" orbits, spaced only by Earth occultation (we use AFTER relative timing requirements to enforce this on the relevant visits). There is NO timing linkage requirement between the first set of four visits and the second set of four visits, but there are relative orientation requirements that will determine the schedualability.

For each target we observe the disk-host first in two orbits (at different S/C orientation angles), then the PSF star (naturally at nominal roll), then the disk-host again at a third orientation angle. This defines the first set of four orbits. We then re-observe with this four-orbit sequence but at three additional S/C orientation angles for the disk-hosts with the PSF star interleaved in the same manner.

RELATIVE ORIENTATIONS: By design, for each disk-host target and its matching PSF star the following relative orientations are optimal and desired (but not necessarily possible - this is our design goal). Here we use Visit numbers for each target as they are assigned within the observation plan for a representative target.

VISITS V#1 - V#4 in Back-to-Back Orbits
==========
V#1 DISK-HOST Orient from V#2 by -30 deg
V#2 DISK-HOST Nominal (or other) Roll as Scheduled by STScI
V#3 PSF-STAR   Nominal (or other) Roll as Scheduled by STScI
V#4 DISK-HOST Orient from V#2 by +30 deg

VISITS V#5 - V#8 in Back-to-Back Orbits
No Timing Linkage between the First (V#1-4) and Second (V#5-8) Set of Orbits
==========
V#5 DISK-HOST Orient from V#1 by +90 deg *OR* -90 deg
V#6 DISK-HOST Orient from V#5 by +30 deg
V#7 PSF-STAR   Nominal (or other) Roll as Scheduled by STScI
V#8 DISK-HOST Orient from V#5 by +60 deg

(Note: Information only: We expect the target/PSF imaging in V#2/V#3, and V#6/V#7, each to be at very similar celestial orientation (roll) angles due to the close proximity in the sky of the target/PSF stars and one-orbit timing linkages. Thus, we do not over-constrain the V#3 and V#7 roll angles (e.g., no "same orient as") as they naturally will be sufficiently similar so as not to induce inter-visit breathing modes.)

*** NOTE TO PC: In V#5, a relative orientation w.r.t. V#1 of either +90 or -90 deg (between the two sets of visits) is acceptable. There is no way to specify this dual allowed relative orientation in APT 22.2. Thus we have used one or the other for which APT 22.2 first indicated link-set schedualbility for all eight linked visits (for each target). The PC is free to change the parity of the relative orientation in V#5 if scheduling is further constrained (unknown to APT) by guide stars or other issues.

*** NOTE TO PC: While the relative 30-degree incremental orientation differences are optimal for our needs, we recognize across the link-set for each target this may not be schedulable in the face of guide star availabilities or other constraints not modeled by APT 22.2. We therefore specify only loose tolerances with allowable roll ranges as follows:

VISITS V#1 - V#4 in Back-to-Back Orbits

==========

V#1 DISK-HOST Orient from V#2 by -30 to -15 deg

V#2 DISK-HOST Nominal (or other) Roll as Scheduled by STScI

V#3 PSF-STAR Nominal (or other) Roll as Scheduled by STScI

V#4 DISK-HOST Orient from V#2 by +15 to +30 deg

VISITS V#5 - V#8 in Back-to-Back Orbits

No Timing Linkage between the First (V#1-4) and Second (V#5-8) Set of Orbits

==========

V#5 DISK-HOST Orient from V#1 by +75 to +105 deg *OR* -105 deg to -75 deg

V#6 DISK-HOST Orient from V#5 by +15 to +30 deg

V#7 PSF-STAR Nominal (or other) Roll as Scheduled by STScI

V#8 DISK-HOST Orient from V#5 by +45 to +60 deg

*** IMPORTANT NOTE **** TO PC: When scheduling, *PLEASE* select relative orientations as close to the optimal roll differentials as noted above and commented in the observing plan for each visit. I.e., -30, +30 from V#2 in V#1 and V#4, respectively; +30, +60 from V#5 in V#6 and V#8, respectively; and +90 from V#1 in V#5. EXCEPT for V3* (HD 141569) see immediately below.

SPECIAL NOTE ON RELATIVE ORIENTATIONS FOR VISITS V31, V34, V35, V36, and V38 (HD 141569)

==========

SPECIAL NOTE ON RELATIVE ORIENTATIONS FOR VISITS V31, V34, V35, V36, and V38 (HD 141569) - Finding schedualability for this with APT 22.2 was a bear! But we did. Here we (necessarily) define our relative orientations except for Visit 35 in the negative domain. A positive domain solution was also found but was even more constraining on the possible roll ranges so we define what you see here. We would LIKE (if possible!) to increase the roll ranges on these target visits, and have put special notes of explanation/desire in the Visit level comments for our PC. Please see! We did not "tweak" (improve) further as this, we suspect, will be informed (or constrained) also by Guide Star selection. When these visits go to implementation we would wish to review the relative orientation possibilities, if found to be less constraining then we have now assumed using the APT 22.2 Visit Planner.

ORBIT LAYOUTS
==========

For each disk or PSF target, in each orbit (identically for each) we perform:
(a) a coronagraphic (no peak-up) imaging target acquisition
(b) a series of "short" 50CCD/CORON exposures with Wedge0.6A or BAR5 occulters
(c) a series of "long" 50CCD/CORN exposures with the Wedge1.0A occulter

We use the STIS TA/ETC to determine TA exposure times for all our targets. We predicate on SNR = 100 in the central pixel and confirm no saturation for the brightest targets.

For imaging with the occulters, we determined from prior program data conservative expectations against soft-saturation at the edges of each of the occulting apertures, and plan individual exposure times at 90% of that conservative edge-saturation limit. We repeat those short exposures multiple times "filling" appx 1/3 of the visibility period (we use CR-split construct for convince). For the G-stars, using Wedge 0.6A, this is at a fixed location. For the A-stars using BOX5 we actually "dither" by +/- 1/4 pixel above and below the mid-line of the BAR5 "finger" in sets of eight short images. For the deeper Wedge1.0A images we plan for individual exposure times <= 20x the calculated 90% to soft-saturation depth for Wedge 0.6A -- and use that for our BAR5 short exposure targets as well. (For the faintest targets we cannot het quite that deep). These are repeated multiple times to fill the remainder of the target visibility period.

NOTES ON CALCULATED EXPOSURE TIMES
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WEDGE 0.6/1.0
0.3SAT is time to saturation at wedge edge with Wedge 0.3
Scaled from VB mag based on V=3.55 for A0 star
0.3-90% is time to 90% full well. This is the time for each individual WedgeA0.6 exposure

20x is IDEALLY how deep to go (individual exptime) in each of at least 3 Wedge A0.6 exposures

For faintest targets that cannot be achieved, but will fill orbit as best possible

TARGET	VMAG	SPEC	ETC	TAs	0.3SAT	0.3-90%	20x
HD-202628	6.75	G5V	STIS.ta.617096	0.2	19.05s	17.15s	343.0s
HD-207129	5.58	G2V	STIS.ta.617422	0.1	6.49s	5.84s	116.8s
HD-202917	8.67	G7V	STIS.ta.618240	1.1	111.68s	100.52s	2010.4s
HD-141569	7.12	A0V	STIS.ta.618242	0.3	26.79s	24.11s	482.3s
HR-4796A	5.78	A0V	STIS.ta.618243	0.1	7.80s	7.02s	140.4s
PSF01-BX-MIC-HD202628	6.82	G0IV	STIS.ta.617137	0.2	20.32s	18.30s	365.8s
PSF02-TAU01-GRU-HD207129	6.04	G0V	STIS.ta.617449	0.1	9.91s	8.92s	178.4s
PSF03-LTT8893-HD202917	7.22	G3V	STIS.ta.618251	0.3	29.38s	26.43s	528.8s
PSF04-HD135298-HD141569A	7.20	A0	STIS.ta.618246	0.4	28.84s	25.96s	519.1s
PSF05-HR4735-HR4796A	5.57	B9V	STIS.ta.618247	0.1	6.43s	5.78s	115.7s

BAR5

BR5SAT is is time to saturation at wedge edge withBAR5

Scaled from Vmag based on V=5.0 for A0 star

B%-50% is time to 90% full well. This is the time for each individual BAR5 exposure

TARGET	VMAG	SPEC	ETC	TAs	BR5SAT	BR5-90%
HD-141569	7.12	A0V	STIS.ta.618242	0.3	7.05s	6.34s
HR-4796A	5.78	A0V	STIS.ta.618243	0.1	2.05s	1.85s
PSF04-HD135298-HD141569A	7.20	A0	STIS.ta.618246	0.4	7.59s	6.83s
PSF05-HR4735-HR4796A	5.57	B9V	STIS.ta.618247	0.1	1.69s	1.52s

BAR5 = BAR10 WITH POS TARGS

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For the BAR5 targets, as noted, we reference the pointings to BAR10 and use
POS TARGs to effect a +/- 3 point dither centered on the bar as follows:

BAR10 with POSTARG 17.48331, -7.43398 (below mid-line of BAR5)
BAR10 with POSTARG 17.48579, -7.42153 (on mid-line of BAR5)
BAR10 with POSTARG 17.48827, -7.40908 (above mid-line of BAR5)

NOTES ON APT 22.2 "MODES"
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NOTE TO PC: (1) As ALWAYS for coronagraphy, all observations *MUST* be done with two-FGS fine-lock guiding with a 3-gyro on-board acquistion (3GOBAD) scenario. We have specified this along with setting the "Program Coordinator Use Only" flag in APT.

NOTE TO PC AND CS: (2) In order to use the BAR5 occulter (referenced from the BAR10 position) we *MUST* set the CENTERAXIS2 location for sub-array readouts. This is an "available" mode, and so we have switched the "Availability" flag for this proposal from "Supported" to "Available"

Our PC and CS are fully aware of our need for these capabilities.

NOTES ON PSF STARS
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Note: We have pre-selected an alternate, suitable, PSF template star for each target, if guide-stars are problematic for those we have used here. As these are at slightly different positions in the sky (all also < 10 deg from their targets) their visibility windows may be a bit different, as well as their brightnesses, so both the orientation angles and acquisition/exposure times amy have to be tweaked.

Visit

Proposal 13786, V01-HD202628 (01), implementation Thu Aug 06 01:07:38 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -30D TO -15D FROM 02

Comments: HD 202628 (V=6.75, B-V = +0.64).
First of two sets of visits, each containing three visits of HD 202628 at different relative orientations with one PSF calibration observation interleaved.
This is the first HD 202628 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (01) at -30 deg from Visit 02, with the absolute orientation of Visit 02 unconstrained.
We allow a relative orientation tolerence from -15 deg to -30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -30 deg from Visit 02 as possible.

Relative Timing: This visit (01) should immediately preceed visit (02). I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V01-HD202628 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V01-HD202628 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(V01-HD202628 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V01-HD202628 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V01-HD202628 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V01-HD202628 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V01-HD202628 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V01-HD202628 (01)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-202628	RA: 21 18 27.2688 (319.6136200d) Dec: -43 20 4.75 (-43.33465d) Equinox: J2000	Proper Motion RA: 240.89 mas/yr Proper Motion Dec: 21.00 mas/yr Parallax: 0.04095" Epoch of Position: 2000.0	V=6.75 B-V =+0.64, Spectral Type: G5V	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202628_ ACQ (STIS.ta.617 096)	(1) HD-202628	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1BN3		0.2 Secs (0.2 Secs) *[==>]*	*[1]*
	Comments: SNR = 100, V = 6.75, sp = G5V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.617096*								
2	HD202628_ SHORTS_1	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			137.6 Secs (137.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	*[1]*
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202628 is V = 6.75 so saturation in 19.05s.* *So 90% full well in appx 17.15s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202628_ SHORTS_2	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			137.6 Secs (137.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	*[1]*
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202628 is V = 6.75 so saturation in 19.05s.* *So 90% full well in appx 17.15s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								

	4	HD202628_SHORTS_3	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=4; GAIN=4	68.8 Secs (68.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 202628 is V = 6.75 so saturation in 19.05s.
So 90% full well in appx 17.15s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.

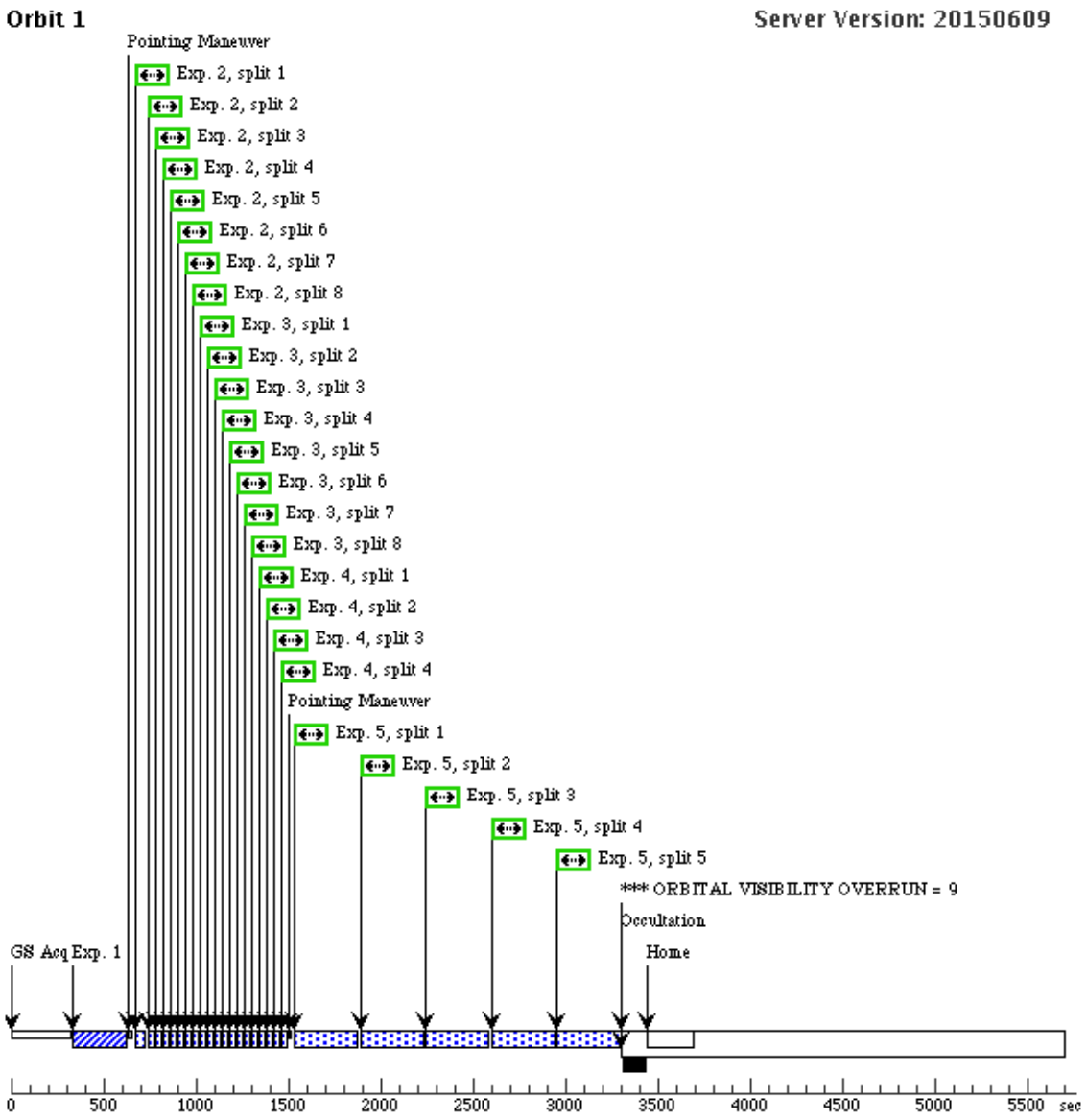
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.

	5	HD202628_LONG	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	1630 Secs (1630 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
HD 202628 is V = 6.75 so saturation in 19.05s in Wedge0.6 images
So 90% full well in appx 17.15s. For long exposures at WedgeA1.0 go > 10x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V02-HD202628 (02), implementation Thu Aug 06 01:07:39 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 01 BY 0.5 Orbits TO 1.5 Orbits

Comments: HD 202628 (V=6.75, B-V = +0.64).
First of two sets of visits, each containing three visits of HD 202628 at different relative orientations with one PSF calibration observation interleaved.
This is the second HD 202628 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: There are no orientation constraints on this visit (02).
This visit at nominal roll as scheduled by STScI.
Visits 01, 04, 05, 06 and 08 carry relative orientation constraints w.r.t. this visit.

Relative Timing: This visit (02) should immediately follow Visit 01 and immediately preceed Visit 03 in back-to-back orbits.

Diagnostics

(V02-HD202628 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V02-HD202628 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(V02-HD202628 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(V02-HD202628 (02)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-202628	RA: 21 18 27.2688 (319.6136200d)	Proper Motion RA: 240.89 mas/yr	V=6.75	Reference Frame: ICRS
		Dec: -43 20 4.75 (-43.33465d)	Proper Motion Dec: 21.00 mas/yr	B-V =+0.64,	
		Equinox: J2000	Parallax: 0.04095"	Spectral Type: G5V	
			Epoch of Position: 2000.0		

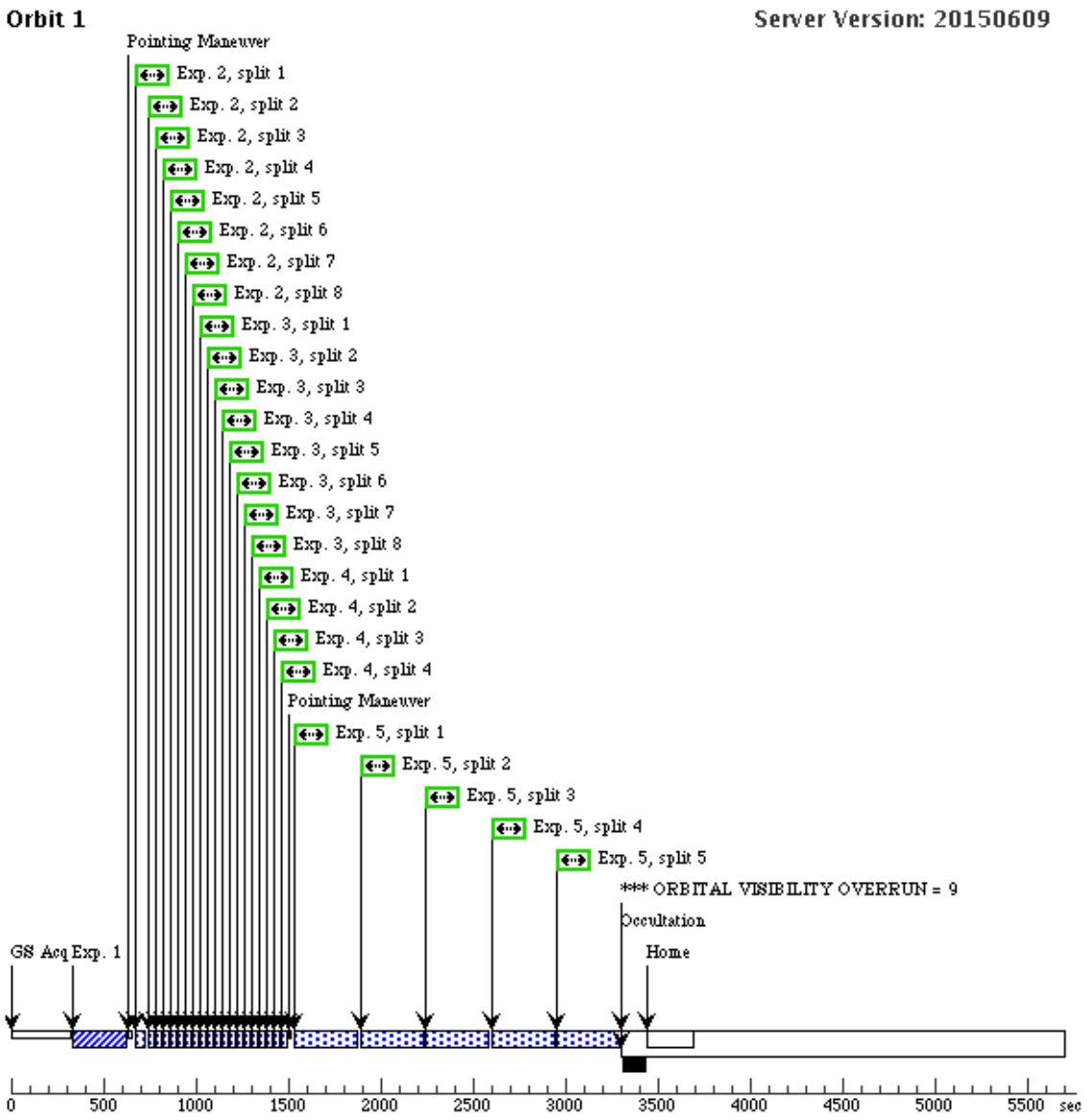
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202628_ ACQ (STIS.ta.617 096)	(1) HD-202628	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1BN3		0.2 Secs (0.2 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 6.75, sp = G5V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.617096*								
2	HD202628_ SHORTS_1	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			137.6 Secs (137.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55. *HD 53143 is V = 7.50 so saturation in 19.2s.* *So 90% full well in appx 17.2s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202628_ SHORTS_2	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			137.6 Secs (137.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 53143 is V = 6.81 so saturation in 19.2s.* *So 90% full well in appx 17.2s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								

	4	HD202628_SHORTS_3	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=4; GAIN=4	68.8 Secs (68.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***
		Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 53143 is V = 6.81 so saturation in 19.2s.* *So 90% full well in appx 17.2s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*						
	5	HD202628_LONG	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	1630 Secs (1630 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*	***[1]***
		Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55. *HD 15745 is V = 7.50 so saturation in 38.0s.* *So 90% full well in appx 34.2s.For long exposures at WedgeA1.0 go > 10x deeper in each that will fit into remainer of visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*						

Orbit Structure



Visit

Proposal 13786, V03-PSF01B-HR8042 (03), implementation Thu Aug 06 01:07:39 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 02 BY .5 Orbits TO 1.5 Orbits

Comments: PSF01B (HR 8042). B = 7.32, B-V = +0.68 (delta(B-V) = -0.04, Spectral Type G3IV. Slew to matched target 3.0 deg

This is the PSF star calibrator for the flanking visits (01-04). We levy no orientation constraints on this visit (03). However, we choose this target very close in the sky to its paired science target. So as Visits 02 and 03 must be scheduled in sequential contiguous orbits, if scheduled at nominal roll (as we expect also Visit 02 will be) then we expect absolute orientations of Visits 02 and 03 to be very similar (within a few degrees). This is important so we maintain similar Sun and Beta angles for the science target and its PSF calibrator,

Relative Timing: This visit (03) should immediately follow visit 02 and immediately precede visit 04. I.e., they should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V03-PSF01B-HR8042 (03)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V03-PSF01B-HR8042 (03)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(V03-PSF01B-HR8042 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V03-PSF01B-HR8042 (03)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(V03-PSF01B-HR8042 (03)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	PSF01B-HR8042-HD202628 Alt Name1: HD-200011	RA: 21 02 12.7301 (315.5530421d) Dec: -43 00 7.75 (-43.00215d) Equinox: J2000	Proper Motion RA: 72.92 mas/yr Proper Motion Dec: -113.72 mas/yr Parallax: 0.01216" Epoch of Position: 2000.0	V=6.64 B = 7.32, B-V = +0.68 (delta(B-V) = -0.04 , Spectral Type G3IV. Slew to matched target 3.0 deg	Reference Frame: ICRS

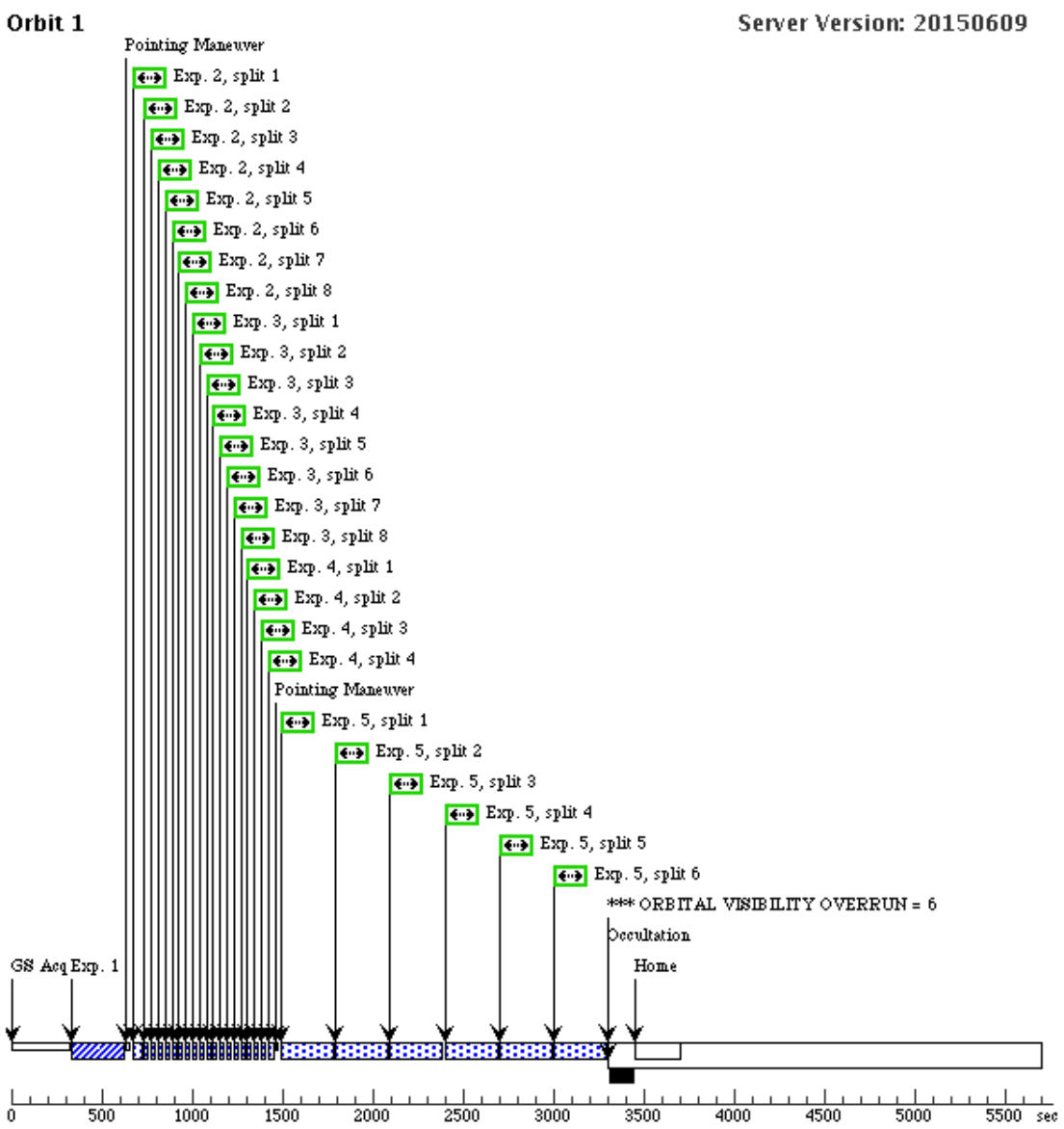
Comments: Replacement PSF for BX Mic (PSF01, Visit 03) due to 5" background contamination from faint field star. Ner-equal brightness star at angular separation 55" (OK).

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PSF01B-HR8042_ACQ (STIS.ta.710657)	(11) PSF01B-HR8042-HD202628	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.2 Secs (0.2 Secs) *[==>]*	 ***[1]***
	Comments: SNR = 100, V = 6.64, sp = G3IV, Exptime (0.176s) rounded to nearest 0.1 second *ETC Request ID: STIS.ta.710657*								
2	PSF01B-HR8042_SHORTS_1	(11) PSF01B-HR8042-HD202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			124.0 Secs (124 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HR 8042 is V = 6.64, so saturation in 17.12s L* *So 90% full well in appx 15.50s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								
3	PSF01B-HR8042_SHORTS_2	(11) PSF01B-HR8042-HD202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			124.0 Secs (124 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HR 8042 is V = 6.64, so saturation in 17.12s L* *So 90% full well in appx 15.50s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								

	4	PSF01B-HR 8042_SHORTS_3	(11) PSF01B-HR804 2-HD202628 STIS/CCD, ACCUM, WEDGEA0.6 MIRROR	SIZEAXIS2=137; CR-SPLIT=4; GAIN=4	62.0 Secs (62 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***
		Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HR 8042 is V = 6.64, so saturation in 17.12s L* *So 90% full well in appx 15.50s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits. .* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*				
	5	PSF01B-HR 8042_LONG	(11) PSF01B-HR804 2-HD202628 STIS/CCD, ACCUM, WEDGEA1.0 MIRROR	SIZEAXIS2=427; CR-SPLIT=6; GAIN=4	1638 Secs (1638 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]*	***[1]***
		Comments: HR 8042 is V = 6.64, so saturation in 17.12s L *So 90% full well in appx 15.50s.* *For long exposures at WedgeA1.0 go 10-20x deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*				

Orbit Structure



Visit

Proposal 13786, V04-HD202628 (04), implementation Thu Aug 06 01:07:39 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT 15D TO 30D FROM 02; AFTER 03 BY .5 Orbits TO 1.5 Orbits

Comments: HD 202628 (V=6.75, B-V = +0.64).
First of two sets of visits, each containing three visits of HD 202628 at different relative orientations with one PSF calibration observation interleaved.
This is the third HD 202628 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (04) at +30 deg from Visit 02, with the absolute orientation of Visit 02 unconstrained.
We allow a relative orientation tolerence from +15 deg to +30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to +30 deg from Visit 02 as possible.

Relative Timing: This visit (04) should immediately follow Visit 03. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V04-HD202628 (04)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V04-HD202628 (04)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(V04-HD202628 (04)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(V04-HD202628 (04)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V04-HD202628 (04)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-202628	RA: 21 18 27.2688 (319.6136200d)	Proper Motion RA: 240.89 mas/yr	V=6.75	Reference Frame: ICRS
		Dec: -43 20 4.75 (-43.33465d)	Proper Motion Dec: 21.00 mas/yr	B-V =+0.64,	
		Equinox: J2000	Parallax: 0.04095"	Spectral Type: G5V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202628_ ACQ (STIS.ta.617 096)	(1) HD-202628	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1BN3		0.2 Secs (0.2 Secs) *[==>]*	*[1]*
	Comments: SNR = 100, V = 6.75, sp = G5V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.617096*								
2	HD202628_ SHORTS_1	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			137.6 Secs (137.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	*[1]*
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55. *HD 53143 is V = 7.50 so saturation in 19.2s.* *So 90% full well in appx 17.2s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202628_ SHORTS_2	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			137.6 Secs (137.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	*[1]*
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 53143 is V = 6.81 so saturation in 19.2s.* *So 90% full well in appx 17.2s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								

4	HD202628_SHORTS_3	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=4; GAIN=4	68.8 Secs (68.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 53143 is V = 6.81 so saturation in 19.2s.
So 90% full well in appx 17.2s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.

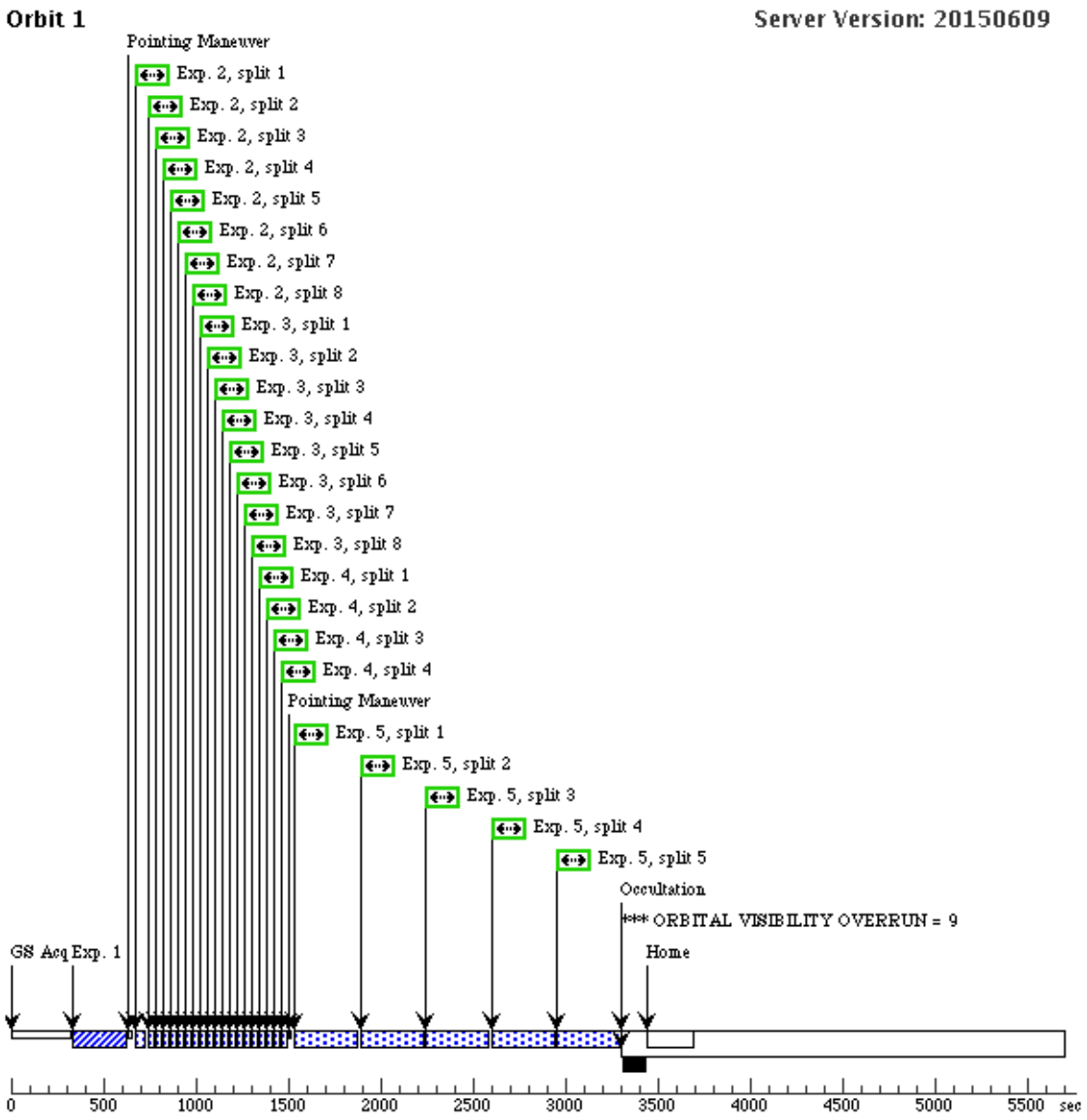
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.

5	HD202628_LONG	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	1630 Secs (1630 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 53143 is V = 6.81 so saturation in 19.2s.
So 90% full well in appx 17.2s.
For long exposures at WedgeA1.0 go ~ 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V05-HD202628 (05), completed Thu Aug 06 01:07:39 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -105D TO -75D FROM 01

Comments: HD 202628 (V=6.75, B-V = +0.64).
Second of two sets of visits, each containing three visits of HD 202628 at different relative orientations with one PSF calibration observation interleaved.
This is the first HD 202628 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Relative Orientation: We wish to schedule this visit (05) at EITHER -90 deg OR +90 deg from Visit 01.
Either (+ or -) is equally acceptable, but there is no way to specificy this via APT 22.2.
Here we specify a range of positive relative orientations of -75 deg to -105 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -90 deg from Visit 01 as possible.
Note to PC: You may freely change the parity of the relative orientation to negative if needed for guise star selection and scheduling.

Relative Timing: Schedule in orbit immediately before Visit 06,

Diagnostics

(V05-HD202628 (05)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V05-HD202628 (05)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(V05-HD202628 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V05-HD202628 (05)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(V05-HD202628 (05)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V05-HD202628 (05)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-202628	RA: 21 18 27.2688 (319.6136200d)	Proper Motion RA: 240.89 mas/yr	V=6.75	Reference Frame: ICRS
		Dec: -43 20 4.75 (-43.33465d)	Proper Motion Dec: 21.00 mas/yr	B-V =+0.64,	
		Equinox: J2000	Parallax: 0.04095"	Spectral Type: G5V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202628_ ACQ (STIS.ta.617 096)	(1) HD-202628	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1BN3		0.2 Secs (0.2 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 6.75, sp = G5V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.617096*								
2	HD202628_ SHORTS_1	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			137.6 Secs (137.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202628 is V = 6.75 so saturation in 19.05s.* *So 90% full well in appx 17.15s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202628_ SHORTS_2	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			137.6 Secs (137.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202628 is V = 6.75 so saturation in 19.05s.* *So 90% full well in appx 17.15s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								

	4	HD202628_SHORTS_3	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=4; GAIN=4	68.8 Secs (68.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 202628 is V = 6.75 so saturation in 19.05s.
So 90% full well in appx 17.15s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.

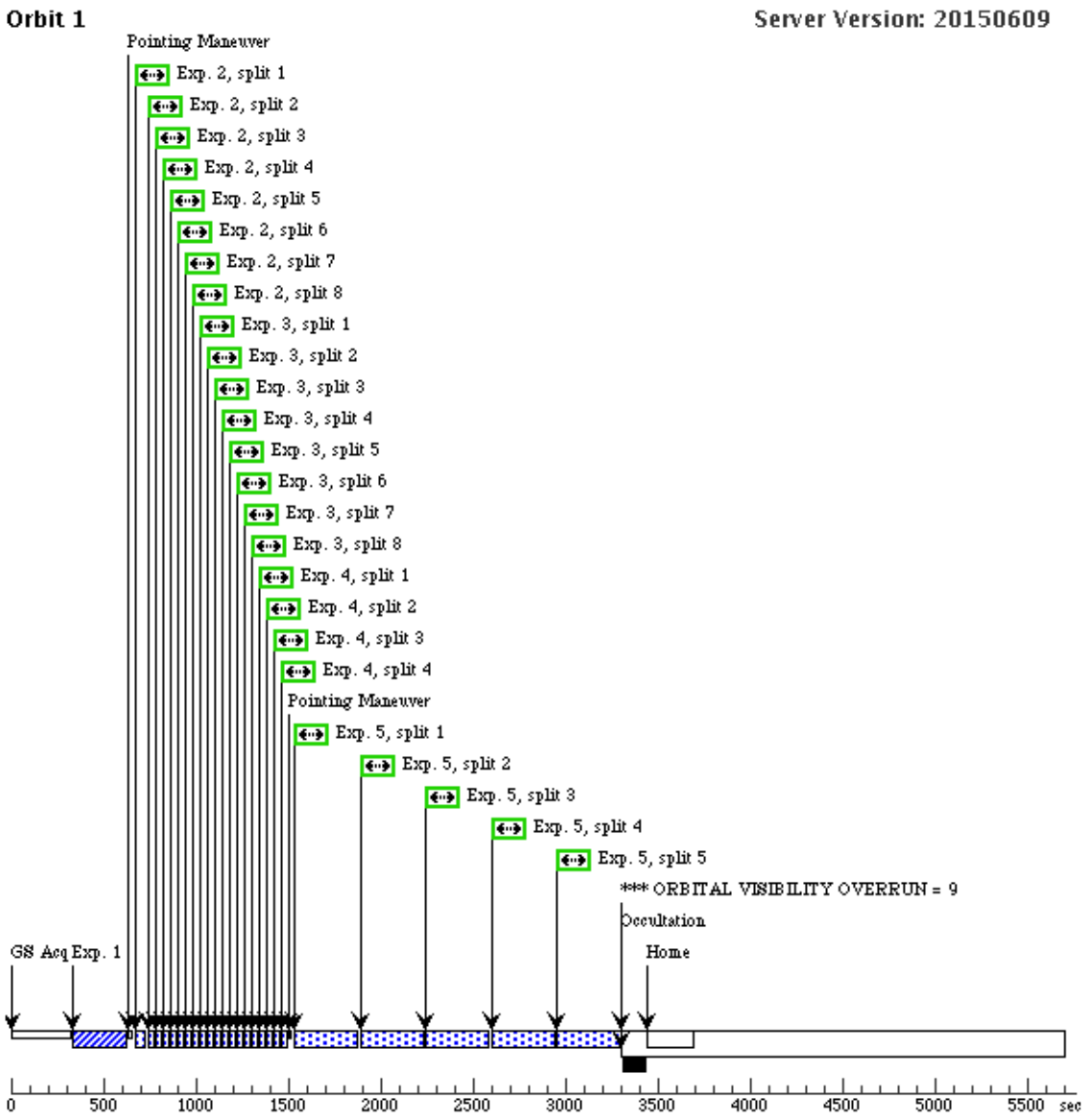
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.

	5	HD202628_LONG	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	1630 Secs (1630 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
HD 202628 is V = 6.75 so saturation in 19.05s in Wedge0.6 images
So 90% full well in appx 17.15s. For long exposures at WedgeA1.0 go > 10x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V06-HD202628 (06), completed Thu Aug 06 01:07:40 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -30D TO -15D FROM 05; AFTER 05 BY .5 Orbits TO 1.5 Orbits

Comments: HD 202628 (V=6.75, B-V = +0.64).
First of two sets of visits, each containing three visits of HD 202628 at different relative orientations with one PSF calibration observation interleaved.
This is the second HD 202628 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (06) at -30 deg from Visit 05.
We allow a relative orientation tolerence from -15 deg to -30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -30 deg from Visit 05 as possible.

Relative Timing: This visit (06) should immediately follow visit 05 and immediately precede visit 07. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V06-HD202628 (06)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V06-HD202628 (06)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V06-HD202628 (06)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(V06-HD202628 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V06-HD202628 (06)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(V06-HD202628 (06)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V06-HD202628 (06)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-202628	RA: 21 18 27.2688 (319.6136200d) Dec: -43 20 4.75 (-43.33465d) Equinox: J2000	Proper Motion RA: 240.89 mas/yr Proper Motion Dec: 21.00 mas/yr Parallax: 0.04095" Epoch of Position: 2000.0	V=6.75 B-V =+0.64, Spectral Type: G5V	Reference Frame: ICRS

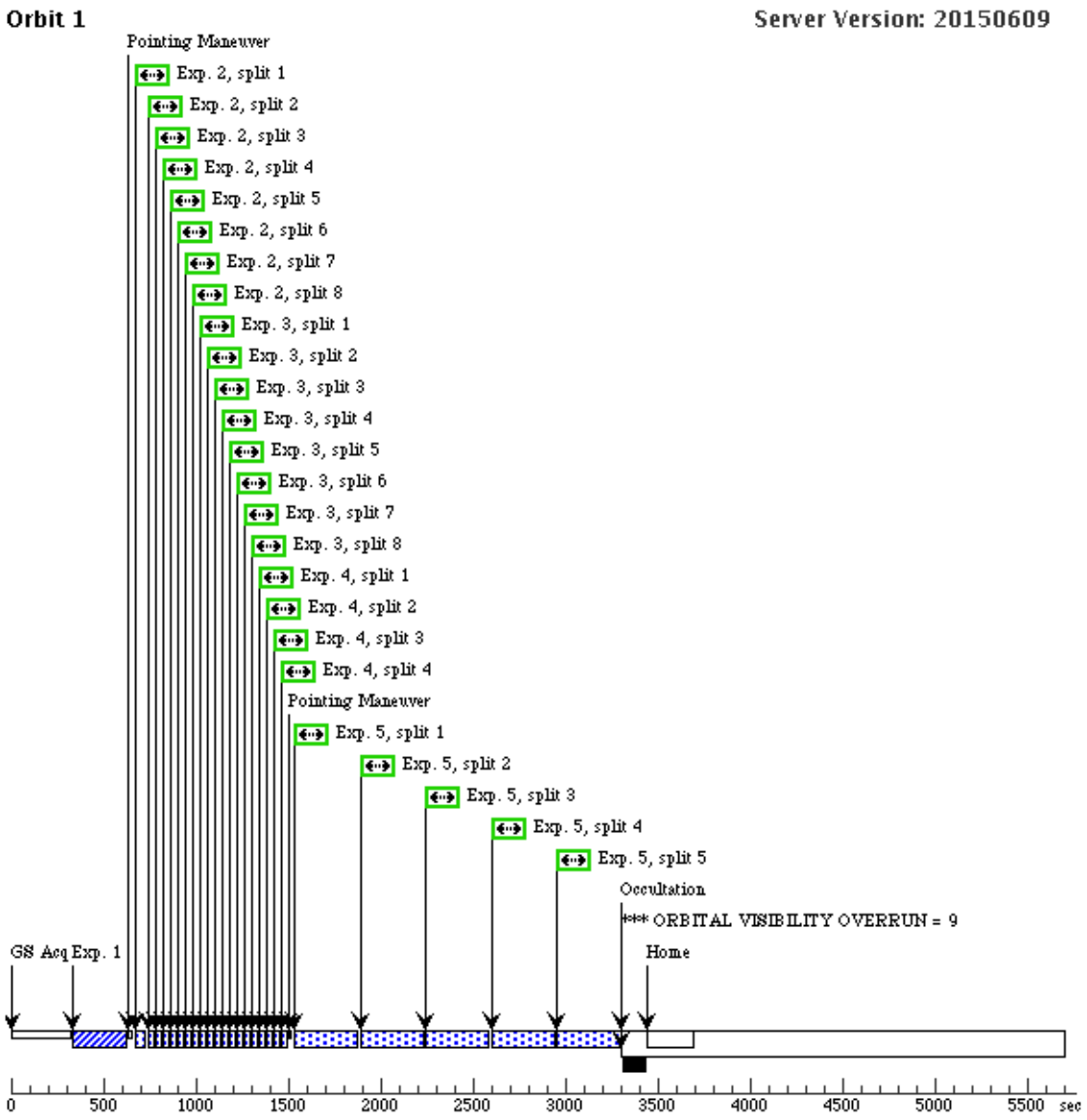
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202628_ ACQ (STIS.ta.617 096)	(1) HD-202628	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1BN3		0.2 Secs (0.2 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 6.75, sp = G5V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.617096*								
2	HD202628_ SHORTS_1	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			137.6 Secs (137.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55. *HD 53143 is V = 7.50 so saturation in 19.2s.* *So 90% full well in appx 17.2s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202628_ SHORTS_2	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			137.6 Secs (137.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 53143 is V = 6.81 so saturation in 19.2s.* *So 90% full well in appx 17.2s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								

	4	HD202628_SHORTS_3	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=4; GAIN=4	68.8 Secs (68.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 53143 is V = 6.81 so saturation in 19.2s.* *So 90% full well in appx 17.2s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*							
	5	HD202628_LONG	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	1630 Secs (1630 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55. *HD 15745 is V = 7.50 so saturation in 38.0s.* *So 90% full well in appx 34.2s.For long exposures at WedgeA1.0 go > 10x deeper in each that will fit into remainer of visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*							

Orbit Structure



Visit

Proposal 13786, V07-PSF01-BX_MIC (07), completed Thu Aug 06 01:07:40 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 06 BY .5 Orbits TO 1.5 Orbits

Comments: PSF01 (MX MIC). PSF calibration target for HD 202628. V = 6.81. B - V = +0.46. Sp G0IV

This is the PSF star calibrator for the flanking visits (04-08). We levy no orientation constraints on this visit (03). However, we choose this target very close in the sky to its paired science target. So as Visits 06 and 07 must be scheduled in sequential contiguous orbits, if scheduled at nominal roll (as we expect also Visit 06 will be) then we expect absolute orientations of Visits 06 and 07 to be very similar (within a few degrees). This is important so we maintain similar Sun and Beta angles for the science target and its PSF calibrator,

Relative Timing: This visit (07) should immediately follow visit 06 and immediately precede visit 08. I.e., they should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V07-PSF01-BX_MIC (07)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V07-PSF01-BX_MIC (07)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V07-PSF01-BX_MIC (07)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V07-PSF01-BX_MIC (07)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V07-PSF01-BX_MIC (07)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V07-PSF01-BX_MIC (07)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(V07-PSF01-BX_MIC (07)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	PSF01-BX-MIC-HD202628 Alt Name1: HD197482	RA: 20 45 11.7224 (311.2988433d) Dec: -35 09 59.12 (-35.16642d) Equinox: J2000	Proper Motion RA: -15.71 mas/yr Proper Motion Dec: -28.94 mas/yr Parallax: 0.00896" Epoch of Position: 2000.0	V=6.82 B-V = +0.64. delta(B-V) = 0.00. Spectral Type G0IV. Slew to matched target 10.4 deg	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PSF01-BX_MIC_ACQ (STIS.ta.617096)	(6) PSF01-BX-MIC-HD202628	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.2 Secs (0.2 Secs) *[==>]*	*[1]*
	Comments: SNR = 100, V = 6.8.2, sp = G0IV, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.617137*								
2	PSF01-BX_MIC_SHORTS_1	(6) PSF01-BX-MIC-HD202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			146.4 Secs (146.4 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	*[1]*
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *BX MIC is V = 6.82, so saturation in 20.32s.* *So 90% full well in appx 18.3s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								
3	PSF01-BX_MIC_SHORTS_2	(6) PSF01-BX-MIC-HD202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			146.4 Secs (146.4 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	*[1]*
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *BX MIC is V = 6.82, so saturation in 20.32s.* *So 90% full well in appx 18.3s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								

	4	PSF01-BX_MIC_SHORTS_3	(6) PSF01-BX-MIC-HD202628	STIS/CCD, ACCUM, WEDGEA0.6 MIRROR	SIZEAXIS2=137; CR-SPLIT=4; GAIN=4	73.2 Secs (73.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
BX MIC is V = 6.82, so saturation in 20.32s.
So 90% full well in appx 18.3s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.

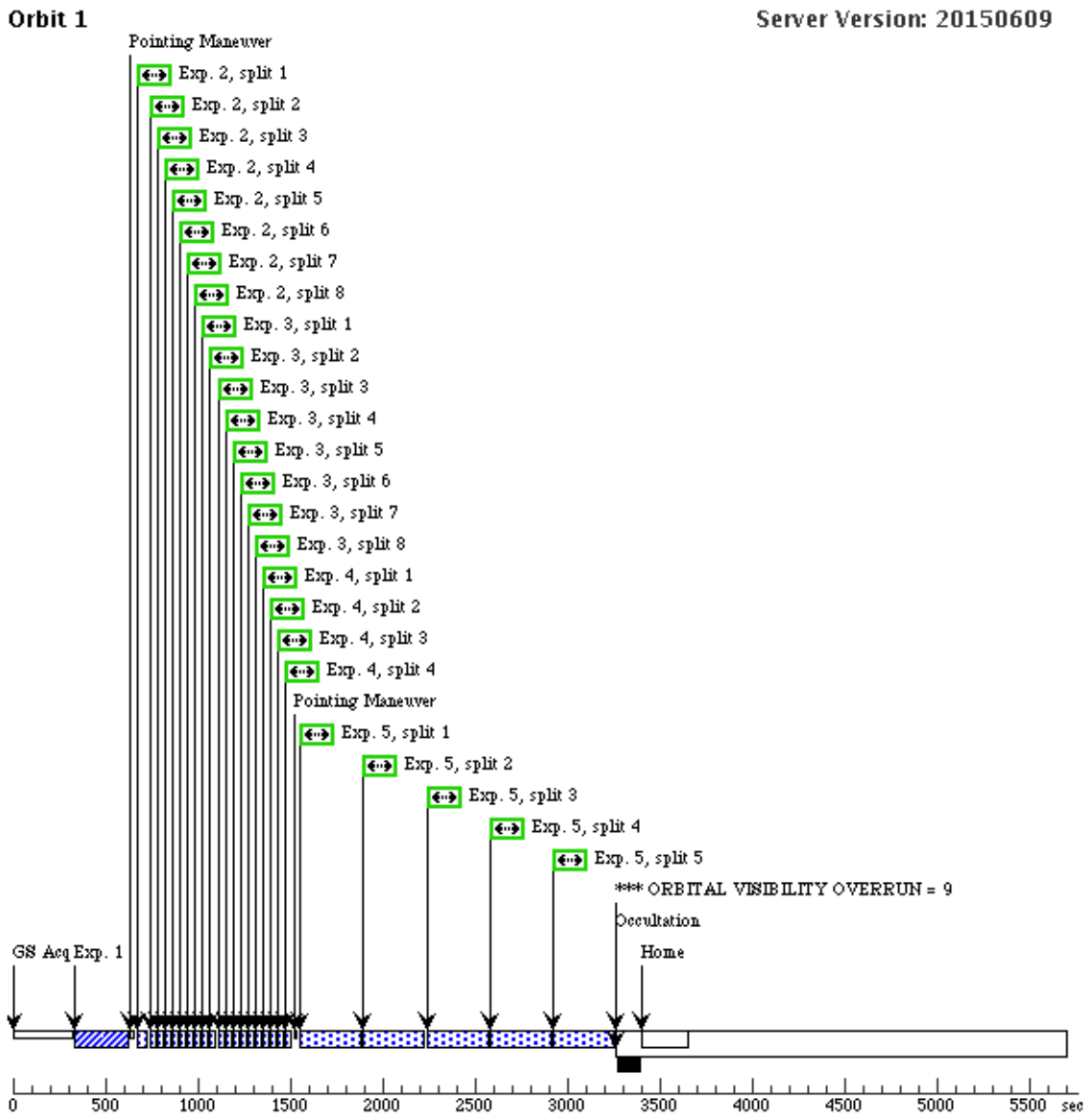
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.

	5	PSF01-BX_MIC_LONG	(6) PSF01-BX-MIC-HD202628	STIS/CCD, ACCUM, WEDGEA1.0 MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	1570 Secs (1570 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
BX MIC is V = 6.82, so saturation in 20.32s.
So 90% full well in appx 18.3s.
For long exposures at WedgeA1.0 go ~ 10x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V08-HD202628 (08), completed Thu Aug 06 01:07:40 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -60D TO -45D FROM 05; AFTER 07 BY .5 Orbits TO 1.5 Orbits

Comments: HD 202628 (V=6.75, B-V = +0.64).
First of two sets of visits, each containing three visits of HD 202628 at different relative orientations with one PSF calibration observation interleaved.
This is the third HD 202628 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (08) at -60 deg from Visit 05.
We allow a relative orientation tolerence from -45 deg to -60 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -60 deg from Visit 05 as possible.

Relative Timing: This visit (08) should immediately follow Visit 07. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V08-HD202628 (08)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD-202628	RA: 21 18 27.2688 (319.6136200d) Dec: -43 20 4.75 (-43.33465d) Equinox: J2000	Proper Motion RA: 240.89 mas/yr Proper Motion Dec: 21.00 mas/yr Parallax: 0.04095" Epoch of Position: 2000.0	V=6.75 B-V =+0.64, Spectral Type: G5V	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202628_ ACQ (STIS.ta.617 096)	(1) HD-202628	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1BN3		0.2 Secs (0.2 Secs) *[==>]*	*[1]*
	Comments: SNR = 100, V = 6.75, sp = G5V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.617096*								
2	HD202628_ SHORTS_1	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			137.6 Secs (137.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	*[1]*
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55. *HD 53143 is V = 7.50 so saturation in 19.2s.* *So 90% full well in appx 17.2s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202628_ SHORTS_2	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			137.6 Secs (137.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	*[1]*
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 53143 is V = 6.81 so saturation in 19.2s.* *So 90% full well in appx 17.2s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								

4	HD202628_SHORTS_3	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=4; GAIN=4	68.8 Secs (68.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 53143 is V = 6.81 so saturation in 19.2s.
So 90% full well in appx 17.2s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.

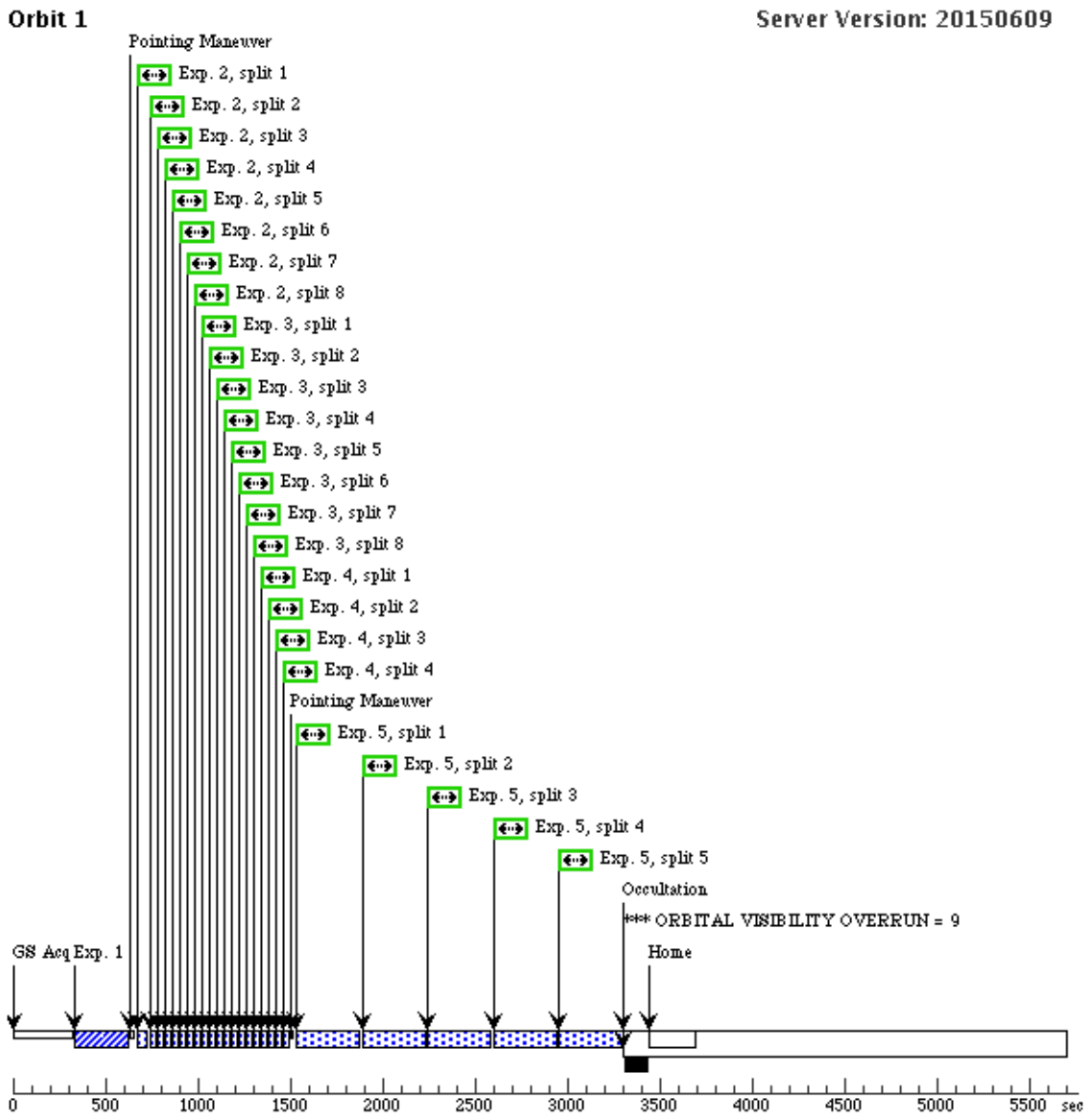
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.

5	HD202628_LONG	(1) HD-202628	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	1630 Secs (1630 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 53143 is V = 6.81 so saturation in 19.2s.
So 90% full well in appx 17.2s.
For long exposures at WedgeA1.0 go ~ 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V11-HD207129 (11), scheduled Thu Aug 06 01:07:40 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT 15D TO 30D FROM 12

Comments: HD 207129 (V=5.58, B-V = +0.60).
First of two sets of visits, each containing three visits of HD 207129 at different relative orientations with one PSF calibration observation interleaved.
This is the first HD 207129 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (11) at 30 deg from Visit 12, with the absolute orientation of Visit 12 unconstrained.
We allow a relative orientation tolerence from 15 deg to 30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to 30 deg from Visit 12 as possible.

Relative Timing: This visit (11) should immediately preceed visit (12). I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V11-HD207129 (11)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V11-HD207129 (11)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V11-HD207129 (11)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HD-207129	RA: 21 48 15.7505 (327.0656271d) Dec: -47 18 13.02 (-47.30362d) Equinox: J2000	Proper Motion RA: 164.43 mas/yr Proper Motion Dec: -295.37 mas/yr Parallax: 0.06252" Epoch of Position: 2000.0	V=5.58 B-V =+0.60, Spectral Type: G2V	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD207129_ ACQ (STIS.ta.617 422)	(2) HD-207129	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1BN3		0.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 5.58, sp = G2V, Exptime rounded to nearest 0.1 second *Min exp time will not saturate, and will give SNR = 173* *ETC Request ID: STIS.ta.617422*								
2	HD207129_ SHORTS_1	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 207129 is V = 5.58 so saturation in 6.49s.* *So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD207129_ SHORTS_2	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 207129 is V = 5.58 so saturation in 6.49s.* *So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								

4	HD207129_SHORTS_3	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4	46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.

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For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.

5	HD207129_LONG_1	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4	928 Secs (928 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
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HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HD207129_LONG_2	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	580 Secs (580 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go 20x deeper in each that will fit into remainer of
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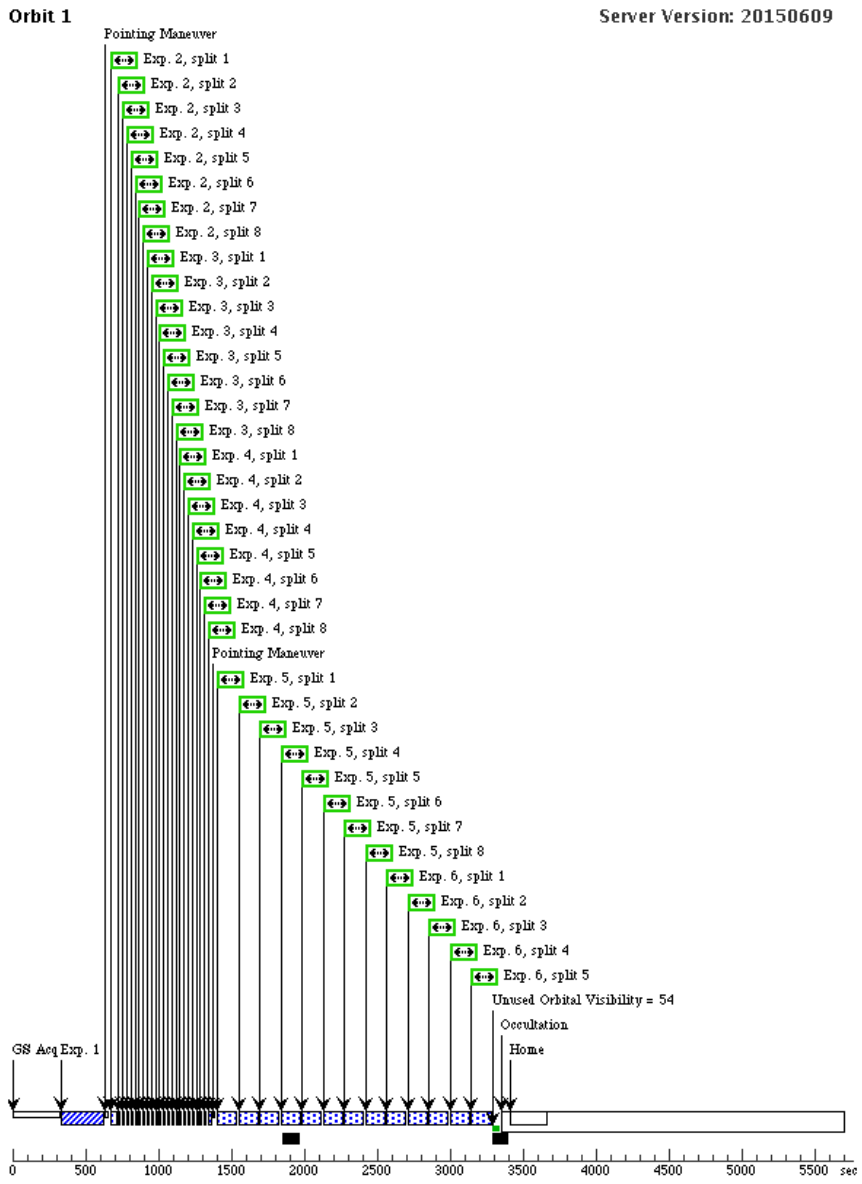
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V12-HD207129 (12), scheduled Thu Aug 06 01:07:40 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 11 BY 0.5 Orbits TO 1.5 Orbits

Comments: HD 207129 (V=5.58, B-V = +0.60).
First of two sets of visits, each containing three visits of HD 202628 at different relative orientations with one PSF calibration observation interleaved.
This is the second HD 207129 visit in the first set.
The four visits within each set must be executed sequentially in contiguous orbits interrupted only for Earth occultation.

Orientation: There are no orientation constraints on this visit (12).
This visit at nominal roll as scheduled by STScI.
Visits 11, 14, 15, 16 and 18 carry relative orientation constraints w.r.t. this visit.

Relative Timing: This visit (12) should immediately follow Visit 11 and immediately preceed Visit 13 in back-to-back orbits.

Diagnostics

(V12-HD207129 (12)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V12-HD207129 (12)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V12-HD207129 (12)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HD-207129	RA: 21 48 15.7505 (327.0656271d) Dec: -47 18 13.02 (-47.30362d) Equinox: J2000	Proper Motion RA: 164.43 mas/yr Proper Motion Dec: -295.37 mas/yr Parallax: 0.06252" Epoch of Position: 2000.0	V=5.58 B-V =+0.60, Spectral Type: G2V	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD207129_ ACQ (STIS.ta.617 422)	(2) HD-207129	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1BN3		0.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 5.58, sp = G2V, Exptime rounded to nearest 0.1 second *Min exp time will not saturate, and will give SNR = 173* *ETC Request ID: STIS.ta.617422*								
2	HD207129_ SHORTS_1	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 207129 is V = 5.58 so saturation in 6.49s.* *So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD207129_ SHORTS_2	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 207129 is V = 5.58 so saturation in 6.49s.* *So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								

4	HD207129_SHORTS_3	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4	46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
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to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.

5	HD207129_LONG_1	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4	928 Secs (928 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
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HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HD207129_LONG_2	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	580 Secs (580 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
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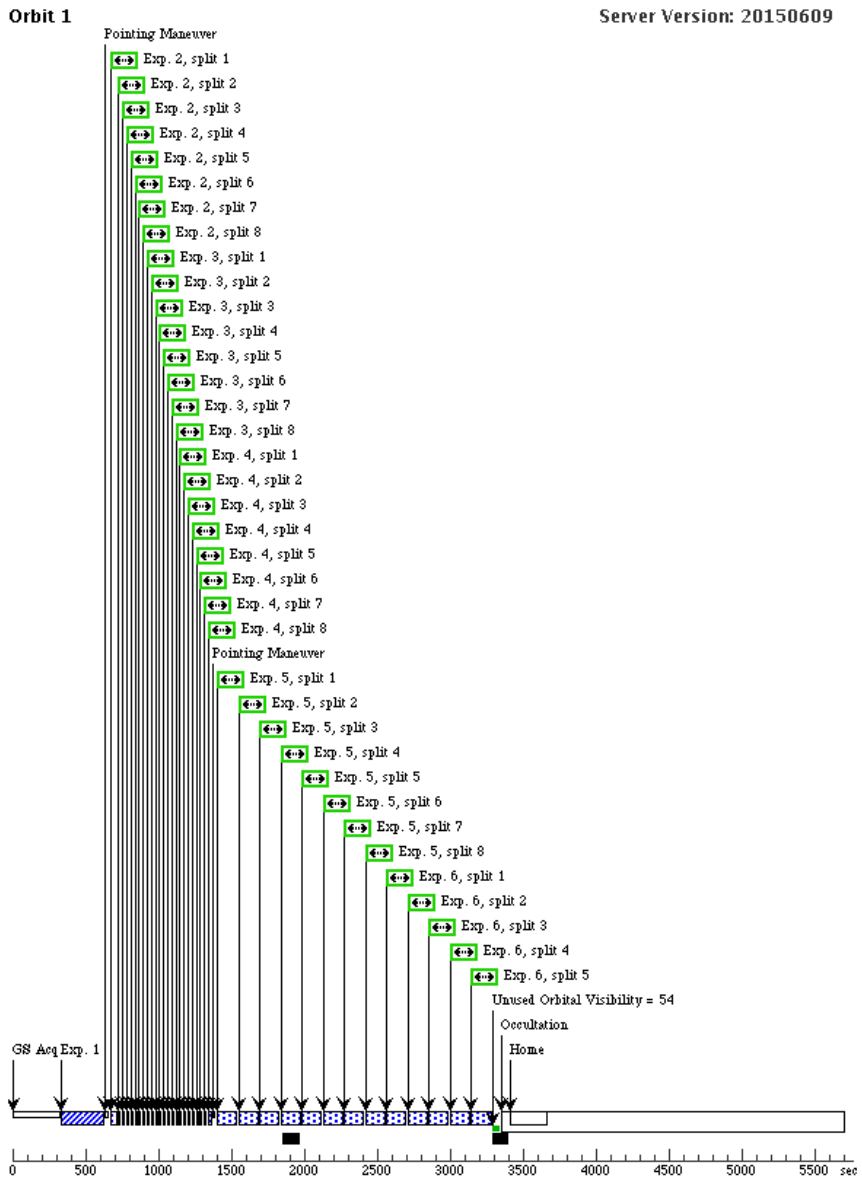
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V13-PSF02-TAU01-GRU-HD207129 (13), scheduled Thu Aug 06 01:07:40 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 12 BY 0.5 Orbits TO 1.5 Orbits

Comments: PSF02 (Tau01 Gru). PSF calibration target for HD 202917. V = 6.04. B - V = +0.62. Sp G2V

This is the PSF star calibrator for the flanking visits (11-14). We levy no orientation constraints on this visit (13). However, we choose this target very close in the sky to its paired science target. So as Visits 12 and 13 must be scheduled in sequential contiguous orbits, if scheduled at nominal roll (as we expect also Visit 12 will be) then we expect absolute orientations of Visits 12 and 13 to be very similar (within a few degrees). This is important so we maintain similar Sun and Beta angles for the science target and its PSF calibrator,

Relative Timing: This visit (13) should immediately follow visit 12 and immediately precede visit 14. I.e., they should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

(V13-PSF02-TAU01-GRU-HD207129 (13)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	PSF02-TAU01-GRU-HD207129 Alt Name1: LTT9179	RA: 22 53 37.9317 (343.4080488d) Dec: -48 35 53.83 (-48.59829d) Equinox: J2000	Proper Motion RA: 217.0 mas/yr Proper Motion Dec: -81.76 mas/yr Parallax: 0.03066" Epoch of Position: 2000.0	V=6.04 B-V = +0.62. delta(B-V) = -0.02. Spectral Type G0V. Slew to matched target 11.0 deg	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PSF02-TAU01-GRU_ACQ (STIS.ta.617096)	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 6.04, sp = G0IV, Exptime rounded to nearest 0.1 second *0.1s yields non-saturated SNR 100* *ETC Request ID:STIS.ta.617449*								
2	PSF02-TAU01-GRU_SHORT_1	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			71.36 Secs (71.36 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *Tau01 Gru is V = 6.04, so saturation in 9.91s.* *So 90% full well in appx 8.92s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								
3	PSF02-TAU01-GRU_SHORT_2	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			71.36 Secs (71.36 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *Tau01 Gru is V = 6.04, so saturation in 9.91s.* *So 90% full well in appx 8.92s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								

4	PSF02-TAU01-GRU_SHORT_3	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD, ACCUM, WEDGEA0.6 MIRROR	SIZEAXIS2=137; CR-SPLIT=7; GAIN=4	62.44 Secs (62.44 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
Tau01 Gru is V = 6.04, so saturation in 9.91s.
So 90% full well in appx 8.92s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.

5	PSF02-TAU01-GRU_SLONG_1	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD, ACCUM, WEDGEA1.0 MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4	1427.2 Secs (1427.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
Tau01 Gru is V = 6.04, so saturation in 9.91s.
So 90% full well in appx 8.92s.
For long exposures at WedgeA1.0 go 10x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

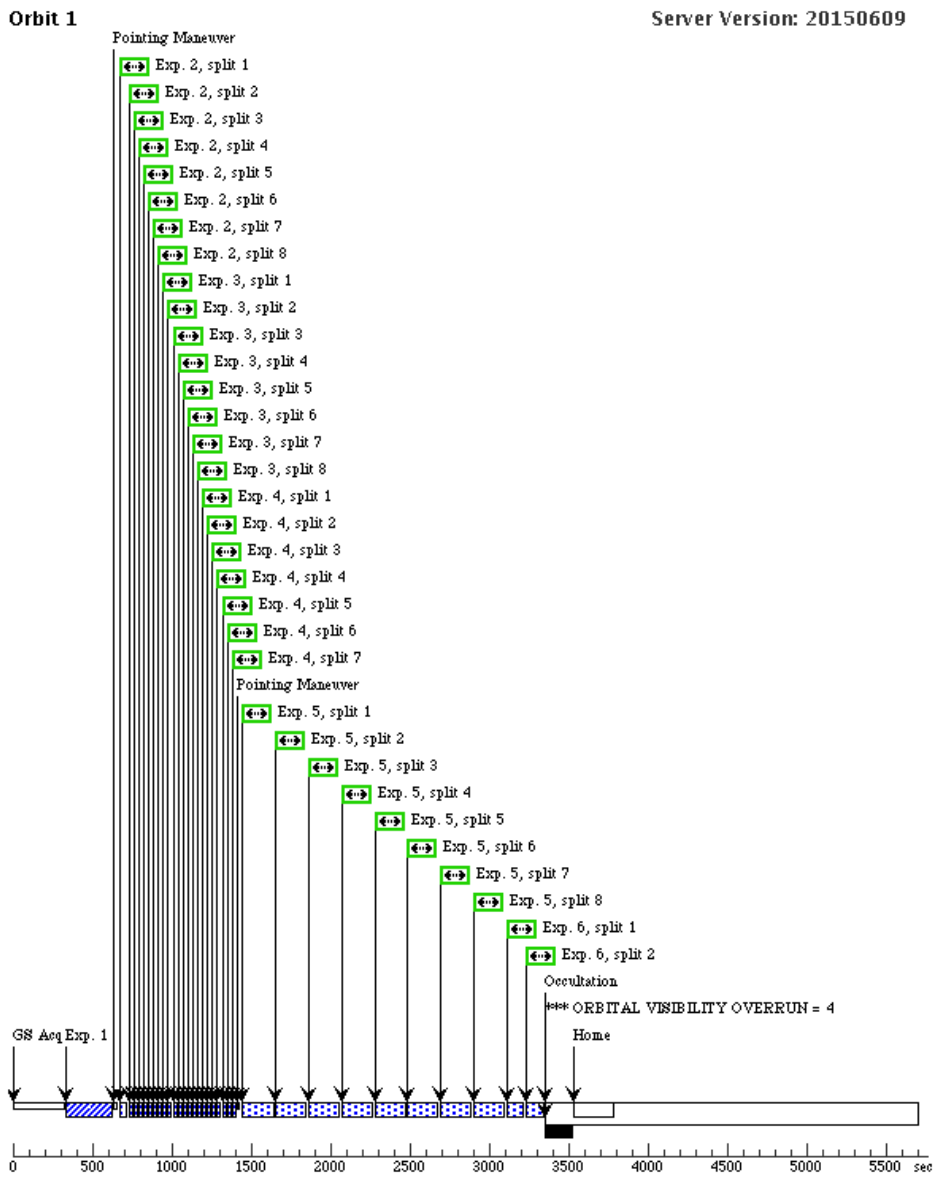
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	PSF02-TAU01-GRU_LONG_2	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD, ACCUM, WEDGEA1.0 MIRROR	SIZEAXIS2=427; GAIN=4	178.4 Secs (178.4 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
Tau01 Gru is V = 6.04, so saturation in 9.91s.
So 90% full well in appx 8.92s.
For long exposures at WedgeA1.0 go 10x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V14-HD207129 (14), scheduled Thu Aug 06 01:07:41 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -30D TO -15D FROM 12; AFTER 13 BY 0.5 Orbits TO 1.5 Orbits

Comments: HD 207129 (V=5.58, B-V = +0.60).
First of two sets of visits, each containing three visits of HD207129 at different relative orientations with one PSF calibration observation interleaved.
This is the third HD 207129 visit in the first set.
The four visits within each set must be executed sequentially in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (14) at -30 deg from Visit 12, with the absolute orientation of Visit 12 unconstrained.
We allow a relative orientation tolerence from -15 deg to -30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -30 deg from Visit 12 as possible.

Relative Timing: This visit (14) should immediately follow Visit 13. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V14-HD207129 (14)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V14-HD207129 (14)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V14-HD207129 (14)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V14-HD207129 (14)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HD-207129	RA: 21 48 15.7505 (327.0656271d) Dec: -47 18 13.02 (-47.30362d) Equinox: J2000	Proper Motion RA: 164.43 mas/yr Proper Motion Dec: -295.37 mas/yr Parallax: 0.06252" Epoch of Position: 2000.0	V=5.58 B-V =+0.60, Spectral Type: G2V	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD207129_ ACQ (STIS.ta.617 422)	(2) HD-207129	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1BN3		0.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 5.58, sp = G2V, Exptime rounded to nearest 0.1 second *Min exp time will not saturate, and will give SNR = 173* *ETC Request ID: STIS.ta.617422*								
2	HD207129_ SHORTS_1	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 207129 is V = 5.58 so saturation in 6.49s.* *So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD207129_ SHORTS_2	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 207129 is V = 5.58 so saturation in 6.49s.* *So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								

4	HD207129_SHORTS_3	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4	46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.

5	HD207129_LONG_1	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4	928 Secs (928 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

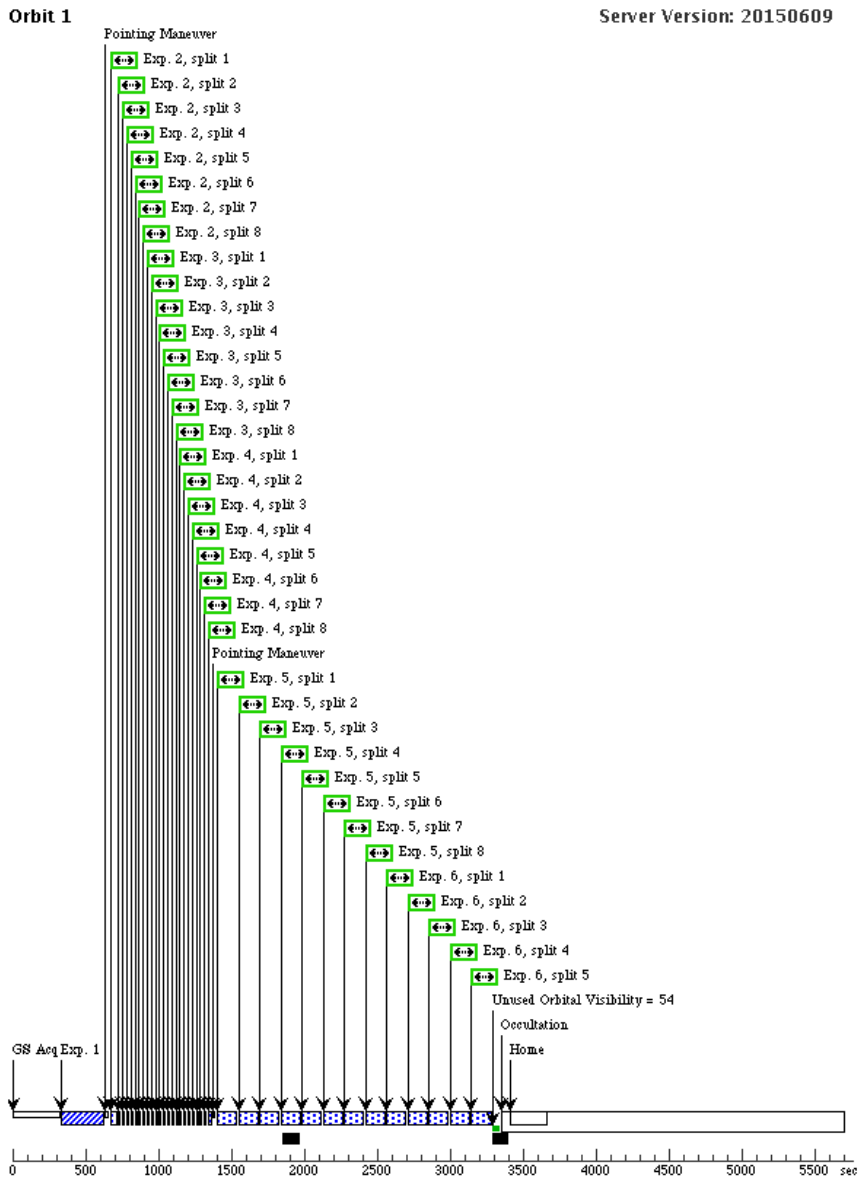
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HD207129_LONG_2	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	580 Secs (580 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V15-HD207129 (15), completed Thu Aug 06 01:07:41 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -105D TO -75D FROM 11

Comments: HD 207129 (V=5.58, B-V = +0.60).
Second of two sets of visits, each containing three visits of HD 207129 at different relative orientations with one PSF calibration observation interleaved.
This is the first HD 207129 visit in the second set.
The four visits within each set must be executed sequentially in contiguous orbits interrupted only for Earth occultation.

Relative Orientation: We wish to schedule this visit (05) at EITHER -90 deg OR +90 deg from Visit 11.
Either (+ or -) is equally acceptable, but there is no way to specificy this via APT 22.2.
Here we specify a range of positive relative orientations of -75 deg to -105 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -90 deg from Visit 11 as possible.
Note to PC: You may freely change the parity of the relative orientation to negative if needed for guise star selection and scheduling.

Relative Timing: Schedule in orbit immediately before Visit 26.

Diagnostics

(V15-HD207129 (15)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V15-HD207129 (15)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V15-HD207129 (15)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V15-HD207129 (15)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HD-207129	RA: 21 48 15.7505 (327.0656271d) Dec: -47 18 13.02 (-47.30362d) Equinox: J2000	Proper Motion RA: 164.43 mas/yr Proper Motion Dec: -295.37 mas/yr Parallax: 0.06252" Epoch of Position: 2000.0	V=5.58 B-V =+0.60, Spectral Type: G2V	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD207129_ ACQ (STIS.ta.617 422)	(2) HD-207129	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1BN3		0.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 5.58, sp = G2V, Exptime rounded to nearest 0.1 second *Min exp time will not saturate, and will give SNR = 173* *ETC Request ID: STIS.ta.617422*								
2	HD207129_ SHORTS_1	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 207129 is V = 5.58 so saturation in 6.49s.* *So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD207129_ SHORTS_2	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 207129 is V = 5.58 so saturation in 6.49s.* *So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								

4	HD207129_ SHORTS_3	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4	46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.

5	HD207129_ LONG_1	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4	928 Secs (928 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

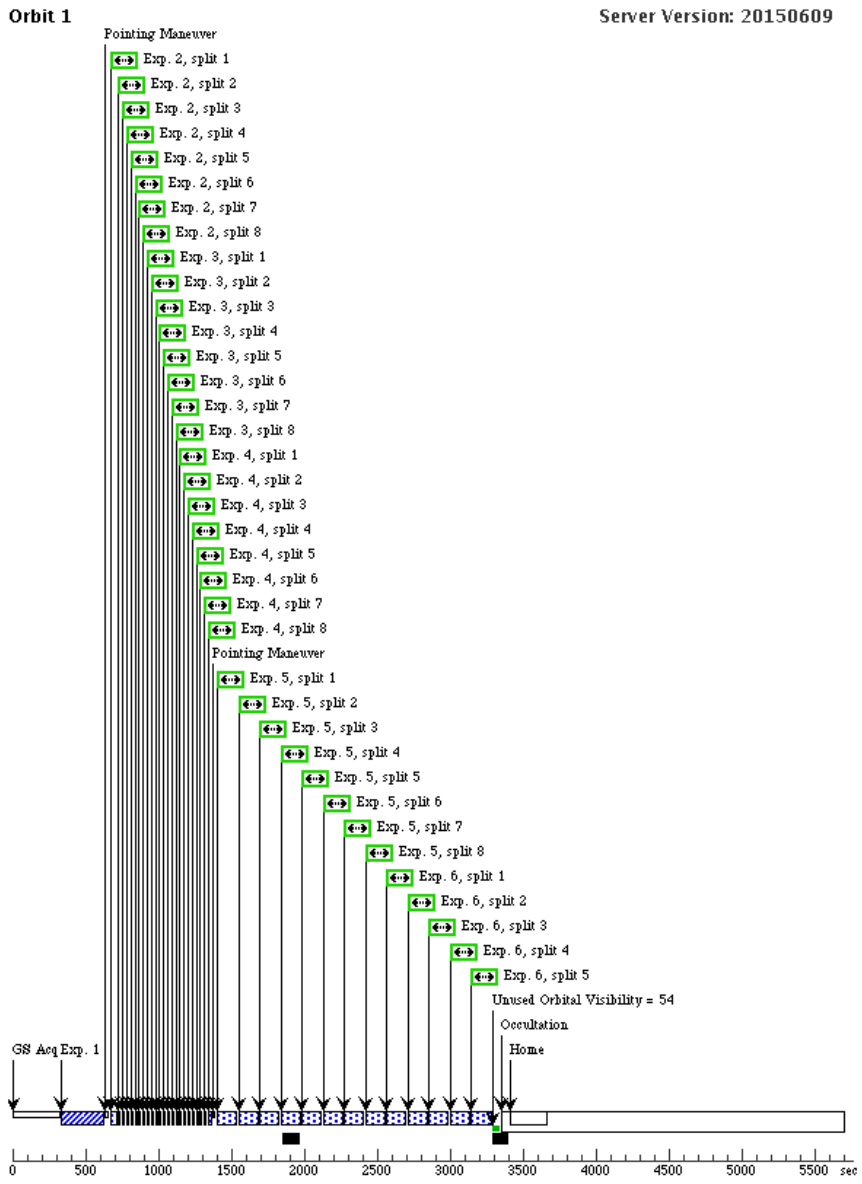
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HD207129_ LONG_2	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	580 Secs (580 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V16-HD207129 (16), completed Thu Aug 06 01:07:41 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -30D TO -15D FROM 15; AFTER 15 BY 0.5 Orbits TO 1.5 Orbits

Comments: HD 207129 (V=5.58, B-V = +0.60).
First of two sets of visits, each containing three visits of HD 207129 at different relative orientations with one PSF calibration observation interleaved.
This is the second HD 207129 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (16) at -30 deg from Visit 15.
We allow a relative orientation tolerence from -15 deg to -30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -30 deg from Visit 15 as possible.

Relative Timing: This visit (16) should immediately follow visit 15 and immediately precede visit 17. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V16-HD207129 (16)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V16-HD207129 (16)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V16-HD207129 (16)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V16-HD207129 (16)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HD-207129	RA: 21 48 15.7505 (327.0656271d) Dec: -47 18 13.02 (-47.30362d) Equinox: J2000	Proper Motion RA: 164.43 mas/yr Proper Motion Dec: -295.37 mas/yr Parallax: 0.06252" Epoch of Position: 2000.0	V=5.58 B-V =+0.60, Spectral Type: G2V	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD207129_ ACQ (STIS.ta.617 422)	(2) HD-207129	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1BN3		0.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 5.58, sp = G2V, Exptime rounded to nearest 0.1 second *Min exp time will not saturate, and will give SNR = 173* *ETC Request ID: STIS.ta.617422*								
2	HD207129_ SHORTS_1	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 207129 is V = 5.58 so saturation in 6.49s.* *So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD207129_ SHORTS_2	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 207129 is V = 5.58 so saturation in 6.49s.* *So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								

4	HD207129_SHORTS_3	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4	46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.

5	HD207129_LONG_1	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4	928 Secs (928 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

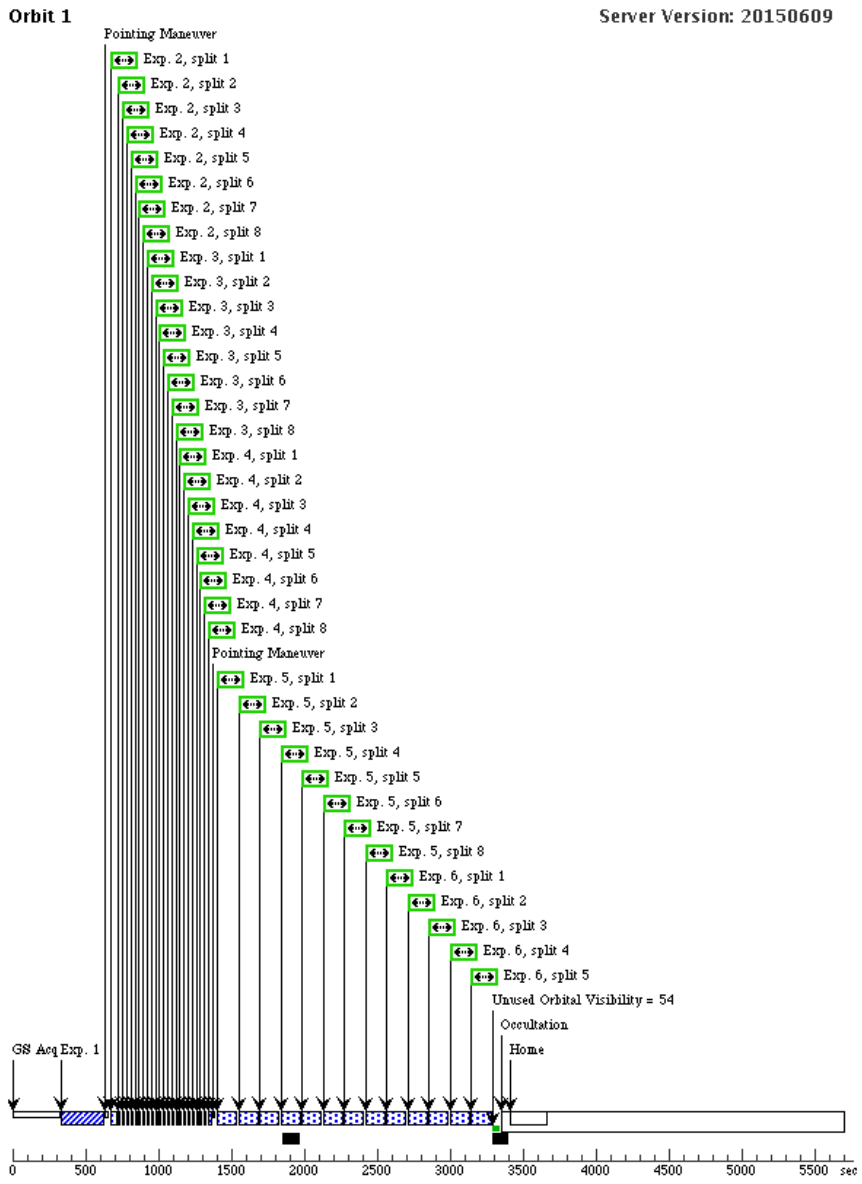
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HD207129_LONG_2	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	580 Secs (580 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V17-PSF02-TAU01-GRU-HD207129 (17), completed Thu Aug 06 01:07:41 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 16 BY 0.5 Orbits TO 1.5 Orbits

Comments: PSF02 (Tau01 Gru). PSF calibration target for HD 202917. V = 6.04. B - V = +0.62. Sp G2V

This is the PSF star calibrator for the flanking visits (25-28). We levy no orientation constraints on this visit (17). However, we choose this target very close in the sky to its paired science target. So as Visits 26 and 27 must be scheduled in sequential contiguous orbits, if scheduled at nominal roll (as we expect also Visit 06 will be) then we expect absolute orientations of Visits 16 and 17 to be very similar (within a few degrees). This is important so we maintain similar Sun and Beta angles for the science target and its PSF calibrator,

Relative Timing: This visit (17) should immediately follow visit 16 and immediately precede visit 18. I.e., they should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V17-PSF02-TAU01-GRU-HD207129 (17)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V17-PSF02-TAU01-GRU-HD207129 (17)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V17-PSF02-TAU01-GRU-HD207129 (17)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V17-PSF02-TAU01-GRU-HD207129 (17)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V17-PSF02-TAU01-GRU-HD207129 (17)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V17-PSF02-TAU01-GRU-HD207129 (17)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V17-PSF02-TAU01-GRU-HD207129 (17)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V17-PSF02-TAU01-GRU-HD207129 (17)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V17-PSF02-TAU01-GRU-HD207129 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V17-PSF02-TAU01-GRU-HD207129 (17)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V17-PSF02-TAU01-GRU-HD207129 (17)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

(V17-PSF02-TAU01-GRU-HD207129 (17)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

(V17-PSF02-TAU01-GRU-HD207129 (17)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	PSF02-TAU01-GRU-HD207129 Alt Name1: LTT9179	RA: 22 53 37.9317 (343.4080488d) Dec: -48 35 53.83 (-48.59829d) Equinox: J2000	Proper Motion RA: 217.0 mas/yr Proper Motion Dec: -81.76 mas/yr Parallax: 0.03066" Epoch of Position: 2000.0	V=6.04 B-V = +0.62. delta(B-V) = -0.02. Spectral Type G0V. Slew to matched target 11.0 deg	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PSF02-TAU01-GRU_ACQ (STIS.ta.617096)	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 6.04, sp = G0IV, Exptime rounded to nearest 0.1 second *0.1s yields non-saturated SNR 100* *ETC Request ID:STIS.ta.617449*								
2	PSF02-TAU01-GRU_SHORT_1	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			71.36 Secs (71.36 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *Tau01 Gru is V = 6.04, so saturation in 9.91s.* *So 90% full well in appx 8.92s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								
3	PSF02-TAU01-GRU_SHORT_2	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			71.36 Secs (71.36 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *Tau01 Gru is V = 6.04, so saturation in 9.91s.* *So 90% full well in appx 8.92s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								

4	PSF02-TAU01-GRU_SHORT_3	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD, ACCUM, WEDGEA0.6 MIRROR	SIZEAXIS2=137; CR-SPLIT=7; GAIN=4	62.44 Secs (62.44 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
Tau01 Gru is V = 6.04, so saturation in 9.91s.
So 90% full well in appx 8.92s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.

5	PSF02-TAU01-GRU_SLONG_1	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD, ACCUM, WEDGEA1.0 MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4	1427.2 Secs (1427.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
Tau01 Gru is V = 6.04, so saturation in 9.91s.
So 90% full well in appx 8.92s.
For long exposures at WedgeA1.0 go 10x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

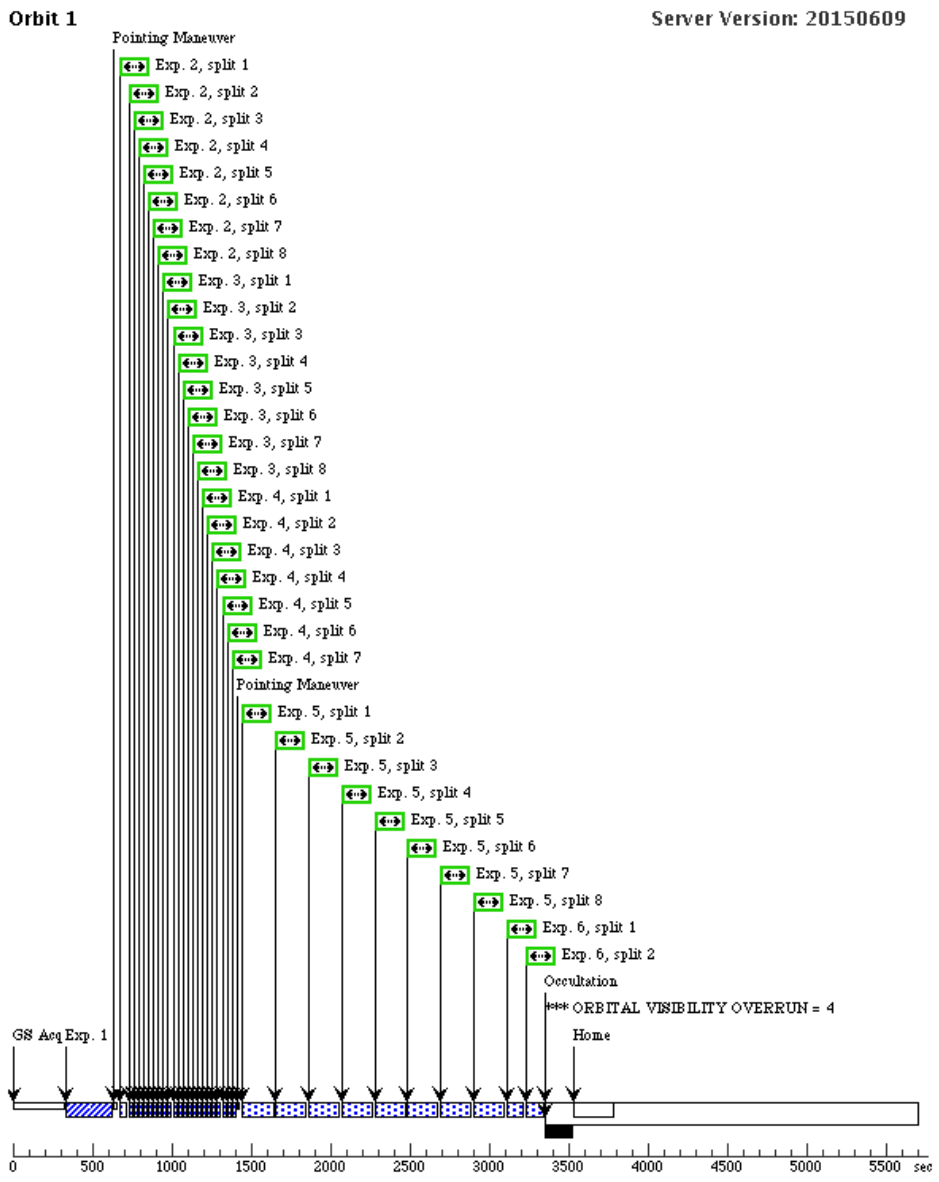
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	PSF02-TAU01-GRU_LONG_2	(7) PSF02-TAU01-GRU-HD207129	STIS/CCD, ACCUM, WEDGEA1.0 MIRROR	SIZEAXIS2=427; GAIN=4	178.4 Secs (178.4 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
Tau01 Gru is V = 6.04, so saturation in 9.91s.
So 90% full well in appx 8.92s.
For long exposures at WedgeA1.0 go 10x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V18-HD207129 (18), completed Thu Aug 06 01:07:41 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -60D TO -45D FROM 15; AFTER 17 BY 0.5 Orbits TO 1.5 Orbits

Comments: HD 207129 (V=5.58, B-V = +0.60).
First of two sets of visits, each containing three visits of HD 207129 at different relative orientations with one PSF calibration observation interleaved.
This is the third HD 207129 visit in the first set.
The four visits within each set must be executed sequentially in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (08) at -60 deg from Visit 05.
We allow a relative orientation tolerence from -45 deg to -60 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -60 deg from Visit 05 as possible.

Relative Timing: This visit (18) should immediately follow Visit 17. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V18-HD207129 (18)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V18-HD207129 (18)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V18-HD207129 (18)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HD-207129	RA: 21 48 15.7505 (327.0656271d) Dec: -47 18 13.02 (-47.30362d) Equinox: J2000	Proper Motion RA: 164.43 mas/yr Proper Motion Dec: -295.37 mas/yr Parallax: 0.06252" Epoch of Position: 2000.0	V=5.58 B-V =+0.60, Spectral Type: G2V	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD207129_ ACQ (STIS.ta.617 422)	(2) HD-207129	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARI O BASE1BN3		0.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 5.58, sp = G2V, Exptime rounded to nearest 0.1 second *Min exp time will not saturate, and will give SNR = 173* *ETC Request ID: STIS.ta.617422*								
2	HD207129_ SHORTS_1	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 207129 is V = 5.58 so saturation in 6.49s.* *So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD207129_ SHORTS_2	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 207129 is V = 5.58 so saturation in 6.49s.* *So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								

4	HD207129_SHORTS_3	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4	46.7 Secs (46.7 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.

5	HD207129_LONG_1	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4	928 Secs (928 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

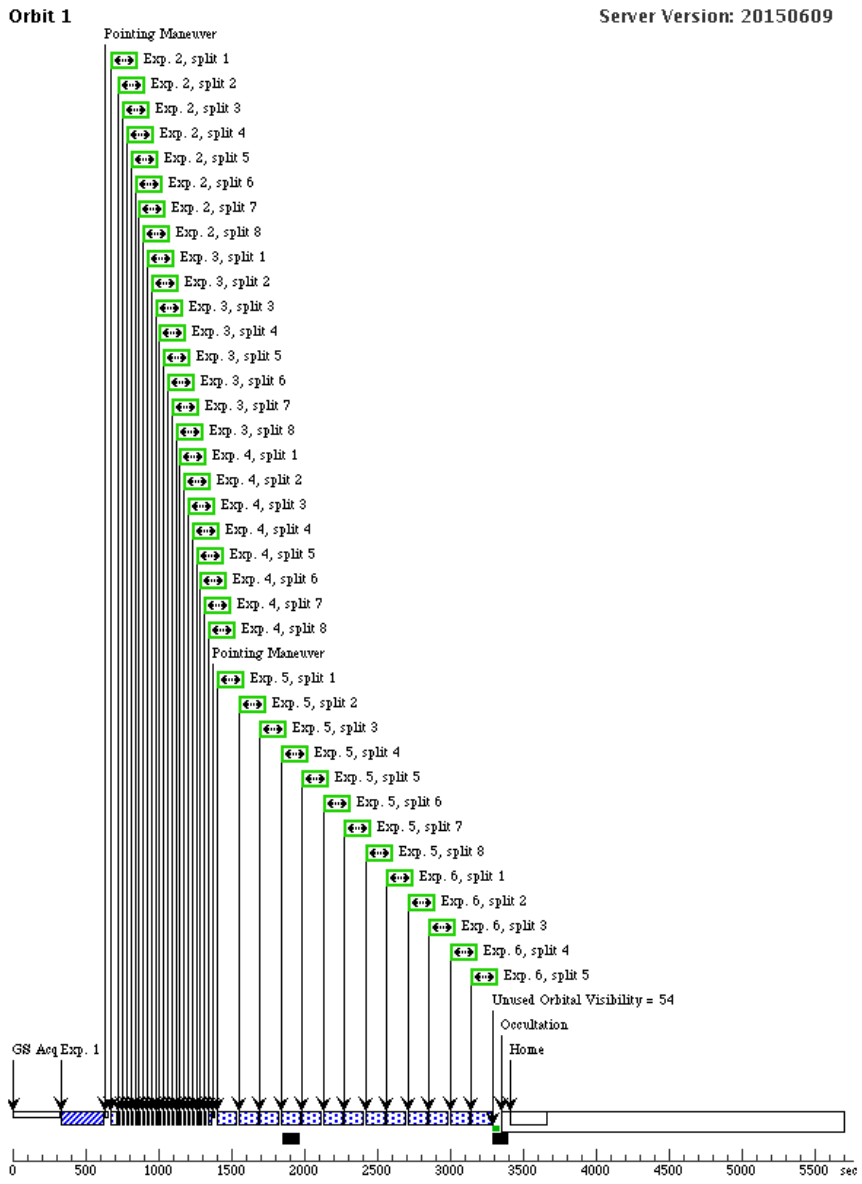
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HD207129_LONG_2	(2) HD-207129	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	580 Secs (580 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 207129 is V = 5.58 so saturation in 6.49s.
So 90% full well in appx 5.84s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V21-HD202917 (21), withdrawn Thu Aug 06 01:07:41 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT 15D TO 30D FROM 22

Comments: HD 202917 (V=8.67, B-V = +0.65).
First of two sets of visits, each containing three visits of HD 202917 at different relative orientations with one PSF calibration observation interleaved.
This is the first HD 202917 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (21) at 30 deg from Visit 22, with the absolute orientation of Visit 22 unconstrained.
We allow a relative orientation tolerence from 15 deg to 30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to 30 deg from Visit 22 as possible.

Relative Timing: This visit (21) should immediately preceed visit (22). I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V21-HD202917 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V21-HD202917 (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V21-HD202917 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V21-HD202917 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V21-HD202917 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V21-HD202917 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V21-HD202917 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V21-HD202917 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V21-HD202917 (21)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

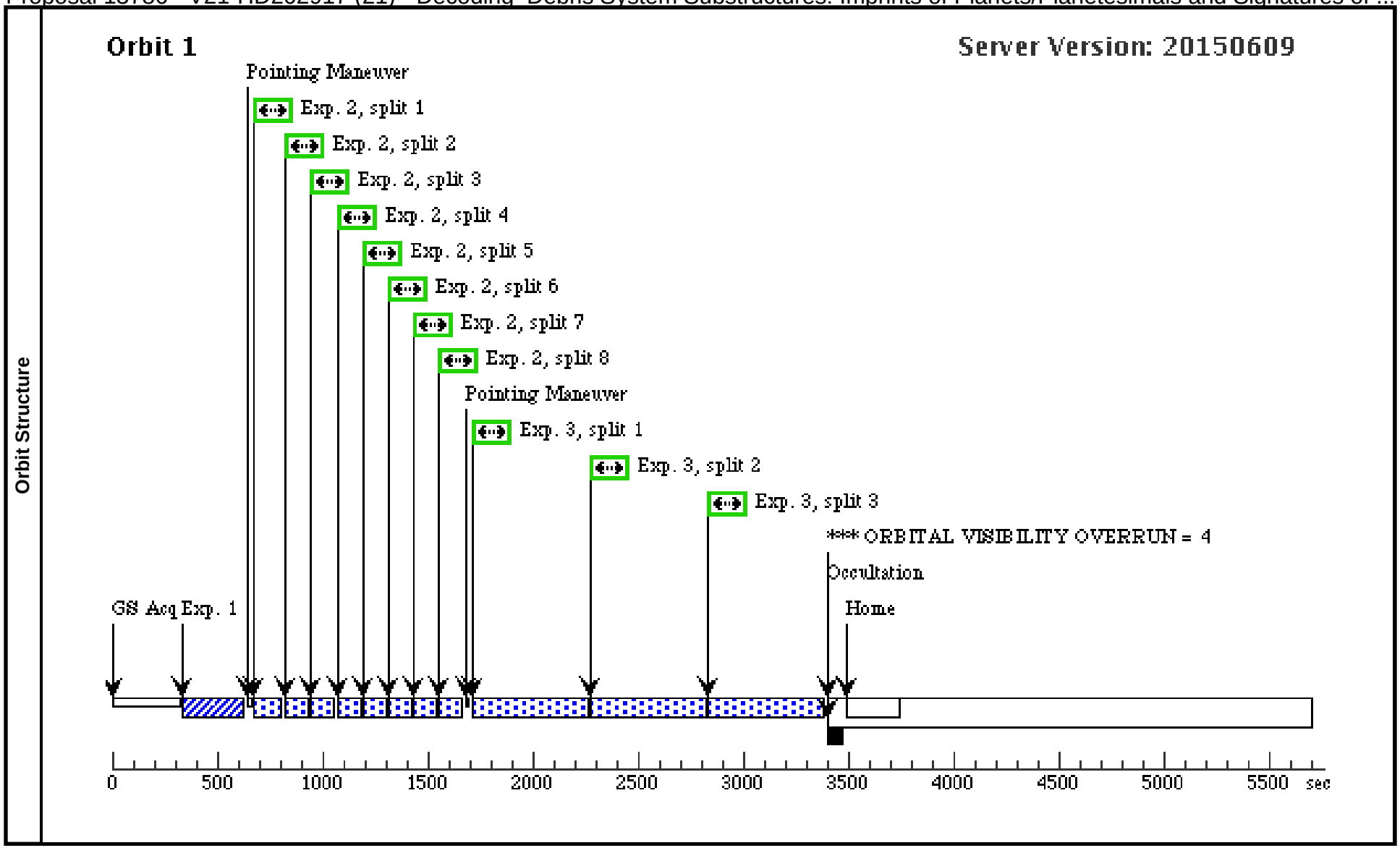
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD-202917	RA: 21 20 49.9551 (320.2081462d)	Proper Motion RA: 28.77 mas/yr	V=8.67	Reference Frame: ICRS
		Dec: -53 02 3.14 (-53.03421d)	Proper Motion Dec: -94.19 mas/yr	B-V =+0.65,	
		Equinox: J2000	Parallax: 0.02327"	Spectral Type: G7V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202917_ ACQ (STIS.ta.618240)	(3) HD-202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		1.1 Secs (1.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 8,67, sp = G7V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618240*								
2	HD202917_ SHORTS_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			800 Secs (800 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202917_ LONG_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4			1599 Secs (1599 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								


Orbit 1
Server Version: 20150609
Orbit Structure
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Exp. 2, split 3
Exp. 2, split 4
Exp. 2, split 5
Exp. 2, split 6
Exp. 2, split 7
Exp. 2, split 8
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
*** ORBITAL VISIBILITY OVERRUN = 4
Occultation
GS Acq Exp. 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13786, V22-HD202917 (22), withdrawn Thu Aug 06 01:07:41 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 21 BY .5 Orbits TO 1.5 Orbits

Comments: HD 202917 (V=8.67, B-V = +0.65).
First of two sets of visits, each containing three visits of HD 202917 at different relative orientations with one PSF calibration observation interleaved.
This is the second HD 202917 visit in the first set.
The four visits within each set must be executed sequentially in contiguous orbits interrupted only for Earth occultation.

Orientation: There are no orientation constraints on this visit (22).
This visit at nominal roll as scheduled by STScI.
Visits 21, 24, 25, 26 and 28 carry relative orientation constraints w.r.t. this visit.

Relative Timing: This visit (22) should immediately follow Visit 21 and immediately preceed Visit 23 in back-to-back orbits.

Diagnostics

(V22-HD202917 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V22-HD202917 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V22-HD202917 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V22-HD202917 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V22-HD202917 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V22-HD202917 (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V22-HD202917 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V22-HD202917 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V22-HD202917 (22)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

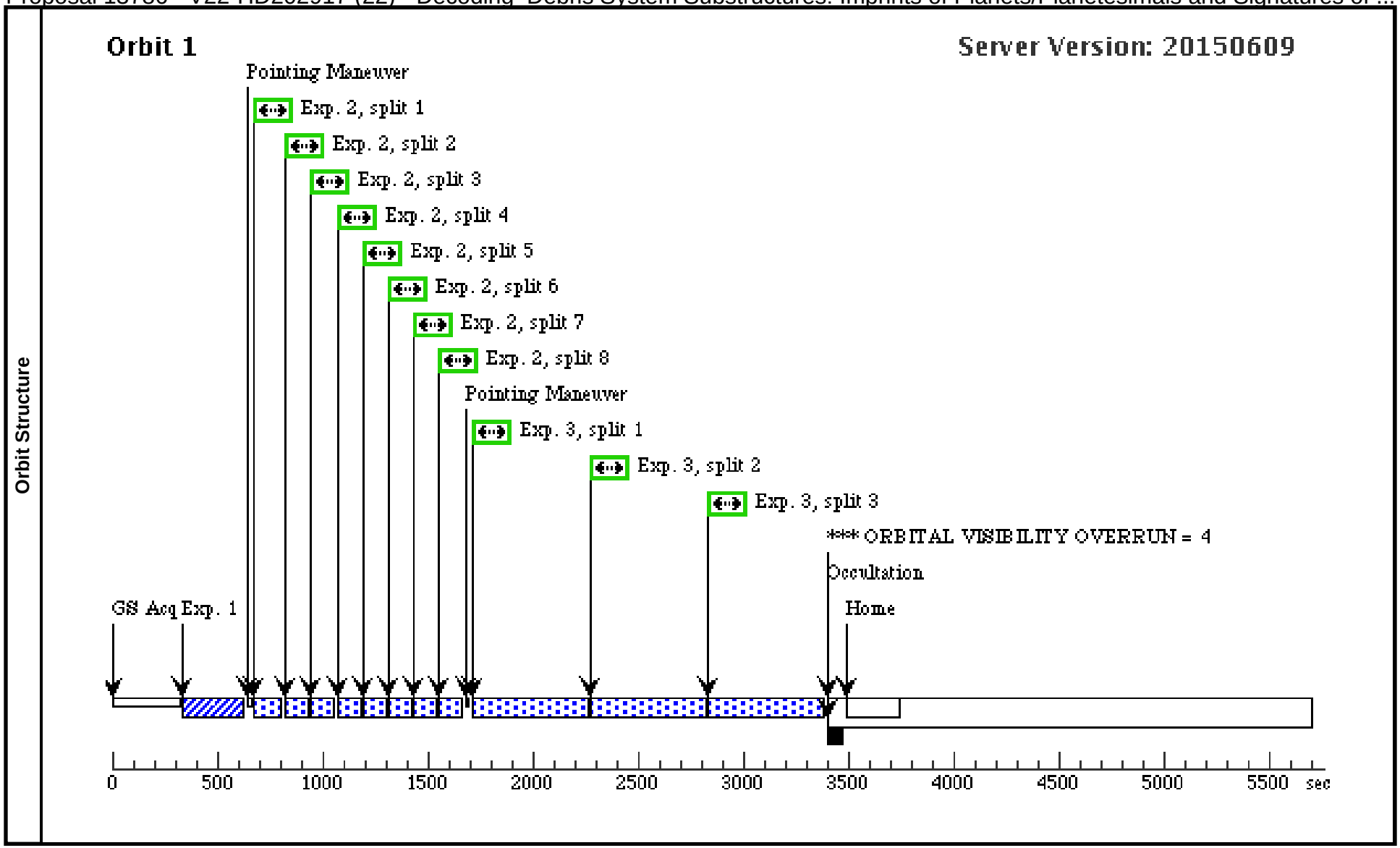
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD-202917	RA: 21 20 49.9551 (320.2081462d)	Proper Motion RA: 28.77 mas/yr	V=8.67	Reference Frame: ICRS
		Dec: -53 02 3.14 (-53.03421d)	Proper Motion Dec: -94.19 mas/yr	B-V =+0.65,	
		Equinox: J2000	Parallax: 0.02327"	Spectral Type: G7V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202917_ ACQ (STIS.ta.618240)	(3) HD-202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		1.1 Secs (1.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 8,67, sp = G7V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618240*								
2	HD202917_ SHORTS_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			800 Secs (800 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202917_ LONG_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4			1599 Secs (1599 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								


Orbit 1
Server Version: 20150609
Orbit Structure
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Exp. 2, split 3
Exp. 2, split 4
Exp. 2, split 5
Exp. 2, split 6
Exp. 2, split 7
Exp. 2, split 8
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
*** ORBITAL VISIBILITY OVERRUN = 4
Occultation
GS Acq Exp. 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13786, V23-PSF03-LTT8893 (23), withdrawn Thu Aug 06 01:07:41 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 22 BY 0.5 Orbits TO 1.5 Orbits

Comments: PSF03 (LTT 8893). PSF calibration target for HD 202917. V = 7.22. B - V = +0.66. Sp G3V

This is the PSF star calibrator for the flanking visits (21-24). We levy no orientation constraints on this visit (23). However, we choose this target very close in the sky to its paired science target. So as Visits 22 and 23 must be scheduled in sequential contiguous orbits, if scheduled at nominal roll (as we expect also Visit 22 will be) then we expect absolute orientations of Visits 22 and 23 to be very similar (within a few degrees). This is important so we maintain similar Sun and Beta angles for the science target and its PSF calibrator,

Relative Timing: This visit (13) should immediately follow visit 22 and immediately precede visit 24. I.e., they should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V23-PSF03-LTT8893 (23)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

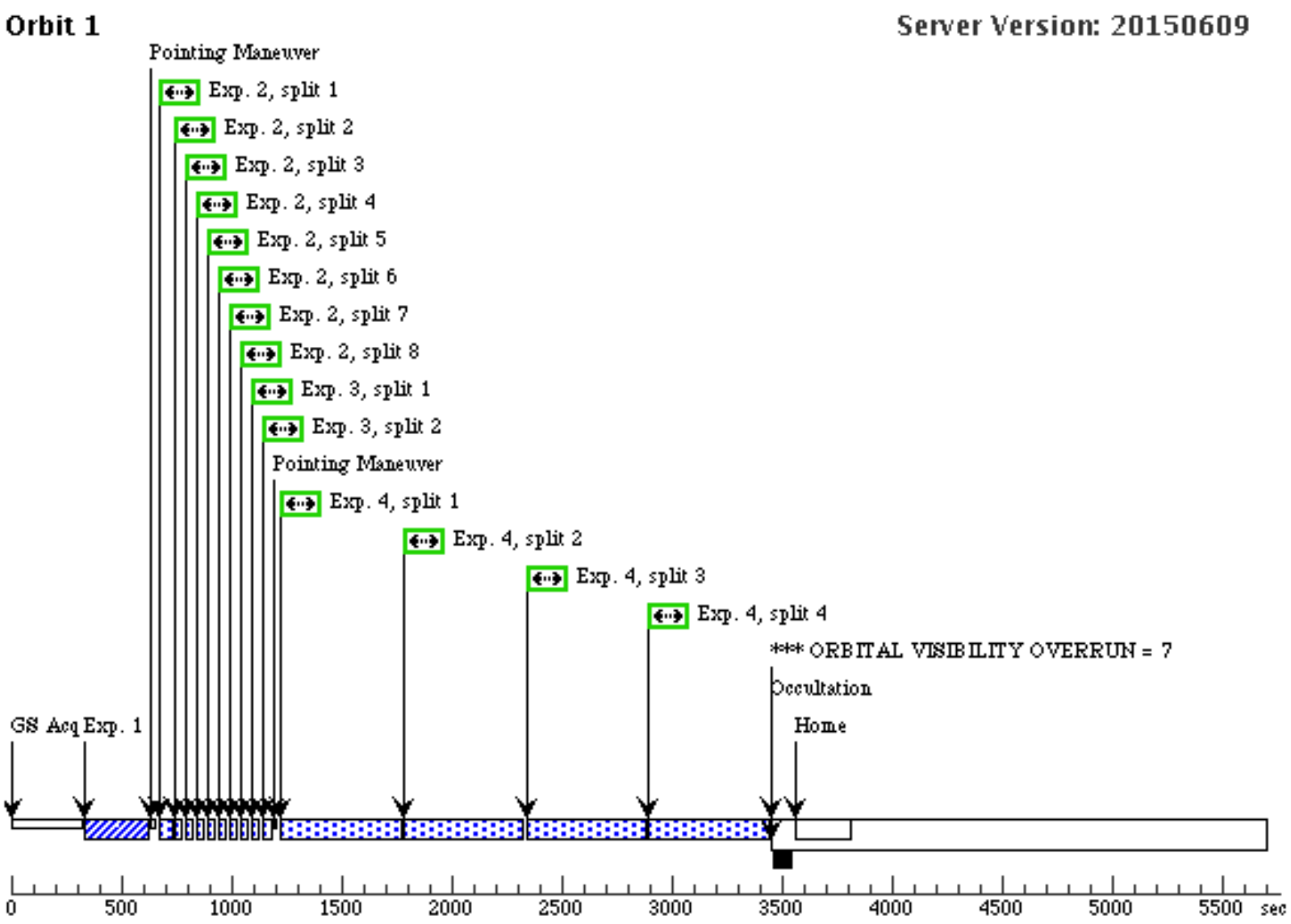
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	PSF03-LTT8893-HD202917	RA: 22 10 49.6679 (332.7069496d) Dec: -55 27 25.68 (-55.45713d) Equinox: J2000	Proper Motion RA: 194.06 mas/yr Proper Motion Dec: -136.74 mas/yr Parallax: 0.01901" Epoch of Position: 2000.0	V=7.22 B-V = +0.66. delta(B-V) = +0.0 1. Spectral Type G3V. Slew to matched target 7.7 deg	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PSF03-LTT889_ACQ (STIS.ta.617096)	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.3 Secs (0.3 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 6.22, sp = G3V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618251*								
2	PSF03-LTT889_SHORT_1	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			211.36 Secs (211.36 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *LTT 8893 is V = 7.22, so saturation in 29.38s.* *So 90% full well in appx 26.43s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								
3	PSF03-LTT889_SHORT_2	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=2; GAIN=4			52.86 Secs (52.86 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *LTT 8893 is V = 7.22, so saturation in 29.38s.* *So 90% full well in appx 26.43s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								
4	PSF03-LTT889_LONG_1	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=4; GAIN=4			2114.4 Secs (2114.4 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *LTT 8893 is V = 7.22, so saturation in 29.38s.* *So 90% full well in appx 26.43s.* *For long exposures at WedgeA1.0 go (at least (x20) deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								

Orbit Structure



Visit

Proposal 13786, V24-HD202917 (24), withdrawn Thu Aug 06 01:07:42 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -30D TO -15D FROM 22; AFTER 23 BY .5 Orbits TO 1.5 Orbits

Comments: HD 202917 (V=8.67, B-V = +0.65).
First of two sets of visits, each containing three visits of HD 202917 at different relative orientations with one PSF calibration observation interleaved.
This is the third HD 202917 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (24) at -30 deg from Visit 22, with the absolute orientation of Visit 22 unconstrained.
We allow a relative orientation tolerence from -15 deg to -30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -30 deg from Visit 22 as possible.

Relative Timing: This visit (24) should immediately follow Visit 23. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V24-HD202917 (24)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V24-HD202917 (24)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V24-HD202917 (24)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V24-HD202917 (24)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V24-HD202917 (24)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V24-HD202917 (24)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V24-HD202917 (24)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V24-HD202917 (24)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V24-HD202917 (24)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

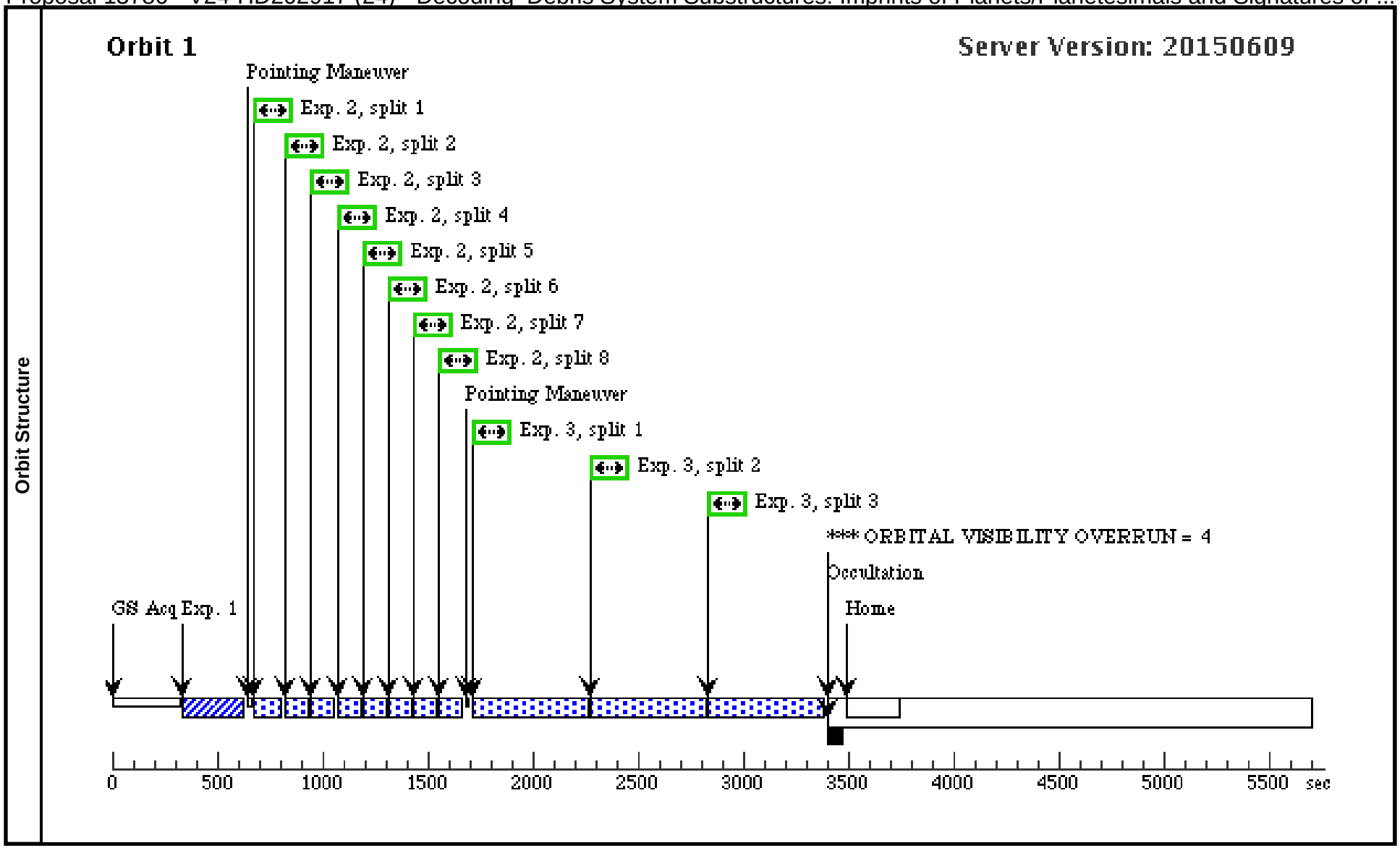
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD-202917	RA: 21 20 49.9551 (320.2081462d)	Proper Motion RA: 28.77 mas/yr	V=8.67	Reference Frame: ICRS
		Dec: -53 02 3.14 (-53.03421d)	Proper Motion Dec: -94.19 mas/yr	B-V =+0.65,	
		Equinox: J2000	Parallax: 0.02327"	Spectral Type: G7V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202917_ ACQ (STIS.ta.618240)	(3) HD-202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		1.1 Secs (1.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 8,67, sp = G7V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618240*								
2	HD202917_ SHORTS_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			800 Secs (800 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202917_ LONG_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4			1599 Secs (1599 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								


Orbit 1
Server Version: 20150609
Orbit Structure
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Exp. 2, split 3
Exp. 2, split 4
Exp. 2, split 5
Exp. 2, split 6
Exp. 2, split 7
Exp. 2, split 8
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
*** ORBITAL VISIBILITY OVERRUN = 4
Occultation
GS Acq Exp. 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13786, V25-HD202917 (25), failed Thu Aug 06 01:07:42 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -105D TO -75D FROM 21

Comments: HD 202917 (V=8.67, B-V = +0.65).
Second of two sets of visits, each containing three visits of HD 202917 at different relative orientations with one PSF calibration observation interleaved.
This is the first HD 202917 visit in the second set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Relative Orientation: We wish to schedule this visit (05) at EITHER -90 deg OR +90 deg from Visit 21.
Either (+ or -) is equally acceptable, but there is no way to specificy this via APT 22.2.
Here we specify a range of relative orientations of -75 deg to -105 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -90 deg from Visit 21 as possible.
Note to PC: You may freely change the parity of the relative orientation to positive if needed for guise star selection and scheduling.
Relative Timing: Schedule in orbit immediately before Visit 26.

Diagnostics

(V25-HD202917 (25)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V25-HD202917 (25)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V25-HD202917 (25)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V25-HD202917 (25)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V25-HD202917 (25)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V25-HD202917 (25)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V25-HD202917 (25)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V25-HD202917 (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V25-HD202917 (25)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

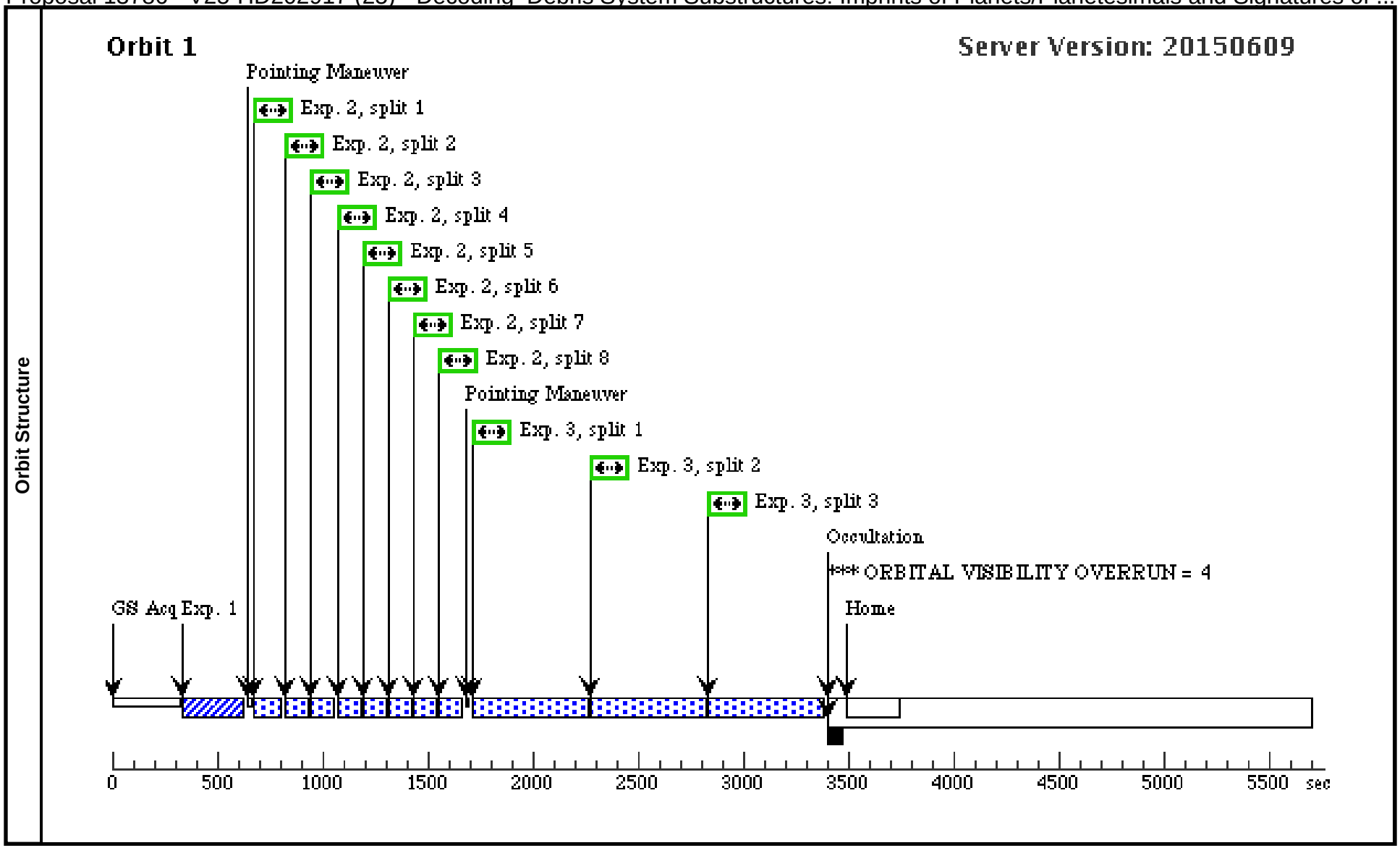
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD-202917	RA: 21 20 49.9551 (320.2081462d)	Proper Motion RA: 28.77 mas/yr	V=8.67	Reference Frame: ICRS
		Dec: -53 02 3.14 (-53.03421d)	Proper Motion Dec: -94.19 mas/yr	B-V =+0.65,	
		Equinox: J2000	Parallax: 0.02327"	Spectral Type: G7V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202917_ ACQ (STIS.ta.618240)	(3) HD-202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		1.1 Secs (1.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 8,67, sp = G7V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618240*								
2	HD202917_ SHORTS_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			800 Secs (800 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202917_ LONG_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4			1599 Secs (1599 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								


Orbit 1
Server Version: 20150609
Orbit Structure
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Exp. 2, split 3
Exp. 2, split 4
Exp. 2, split 5
Exp. 2, split 6
Exp. 2, split 7
Exp. 2, split 8
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
Occultation
*** ORBITAL VISIBILITY OVERRUN = 4
GS Acq Exp. 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13786, V26-HD202917 (26), failed Thu Aug 06 01:07:42 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -30D TO -15D FROM 25; AFTER 25 BY .5 Orbits TO 1.5 Orbits

Comments: HD 202917 (V=8.67, B-V = +0.65).
Second of two sets of visits, each containing three visits of HD 202917 at different relative orientations with one PSF calibration observation interleaved.
This is the second HD 202917 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (26) at -30 deg from Visit 05.
We allow a relative orientation tolerence from -15 deg to -30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -30 deg from Visit 25 as possible.

Relative Timing: This visit (26) should immediately follow visit 25 and immediately precede visit 27. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V26-HD202917 (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V26-HD202917 (26)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V26-HD202917 (26)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V26-HD202917 (26)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V26-HD202917 (26)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V26-HD202917 (26)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V26-HD202917 (26)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V26-HD202917 (26)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V26-HD202917 (26)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

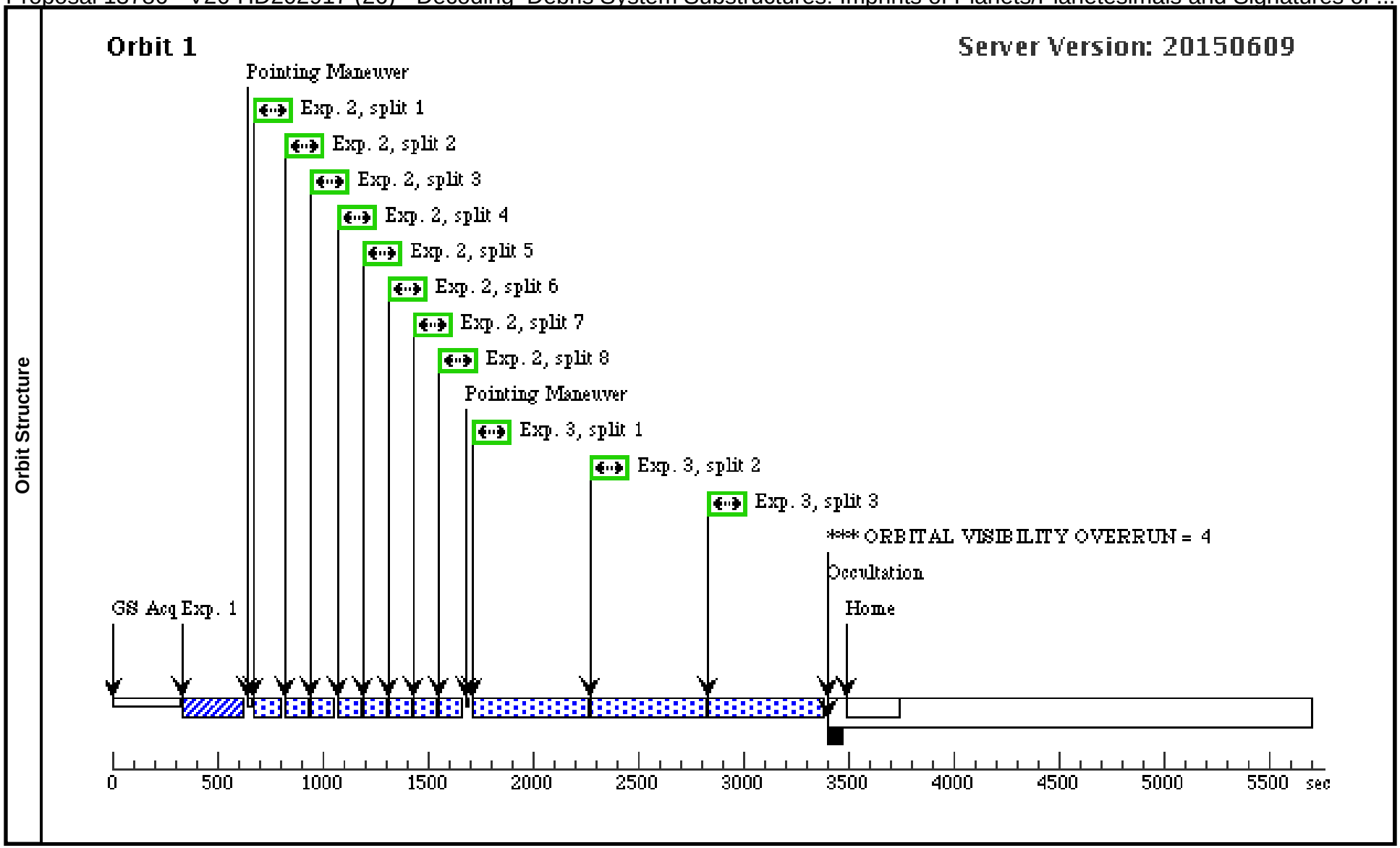
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD-202917	RA: 21 20 49.9551 (320.2081462d)	Proper Motion RA: 28.77 mas/yr	V=8.67	Reference Frame: ICRS
		Dec: -53 02 3.14 (-53.03421d)	Proper Motion Dec: -94.19 mas/yr	B-V =+0.65,	
		Equinox: J2000	Parallax: 0.02327"	Spectral Type: G7V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202917_ ACQ (STIS.ta.618240)	(3) HD-202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		1.1 Secs (1.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 8,67, sp = G7V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618240*								
2	HD202917_ SHORTS_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			800 Secs (800 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202917_ LONG_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4			1599 Secs (1599 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								


Orbit 1
Server Version: 20150609
Orbit Structure
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Exp. 2, split 3
Exp. 2, split 4
Exp. 2, split 5
Exp. 2, split 6
Exp. 2, split 7
Exp. 2, split 8
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
*** ORBITAL VISIBILITY OVERRUN = 4
Occultation
GS Acq Exp. 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13786, V27-PSF03-LTT8893 (27), failed Thu Aug 06 01:07:42 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 26 BY 0.5 Orbits TO 1.5 Orbits

Comments: PSF03 (LTT 8893). PSF calibration target for HD 202917. V = 7.22. B - V = +0.66. Sp G3V

This is the PSF star calibrator for the flanking visits (25-28). We levy no orientation constraints on this visit (27). However, we choose this target very close in the sky to its paired science target. So as Visits 26 and 27 must be scheduled in sequential contiguous orbits, if scheduled at nominal roll (as we expect also Visit 26 will be) then we expect absolute orientations of Visits 26 and 27 to be very similar (within a few degrees). This is important so we maintain similar Sun and Beta angles for the science target and its PSF calibrator,

Relative Timing: This visit (27) should immediately follow visit 26 and immediately precede visit 28. I.e., they should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V27-PSF03-LTT8893 (27)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

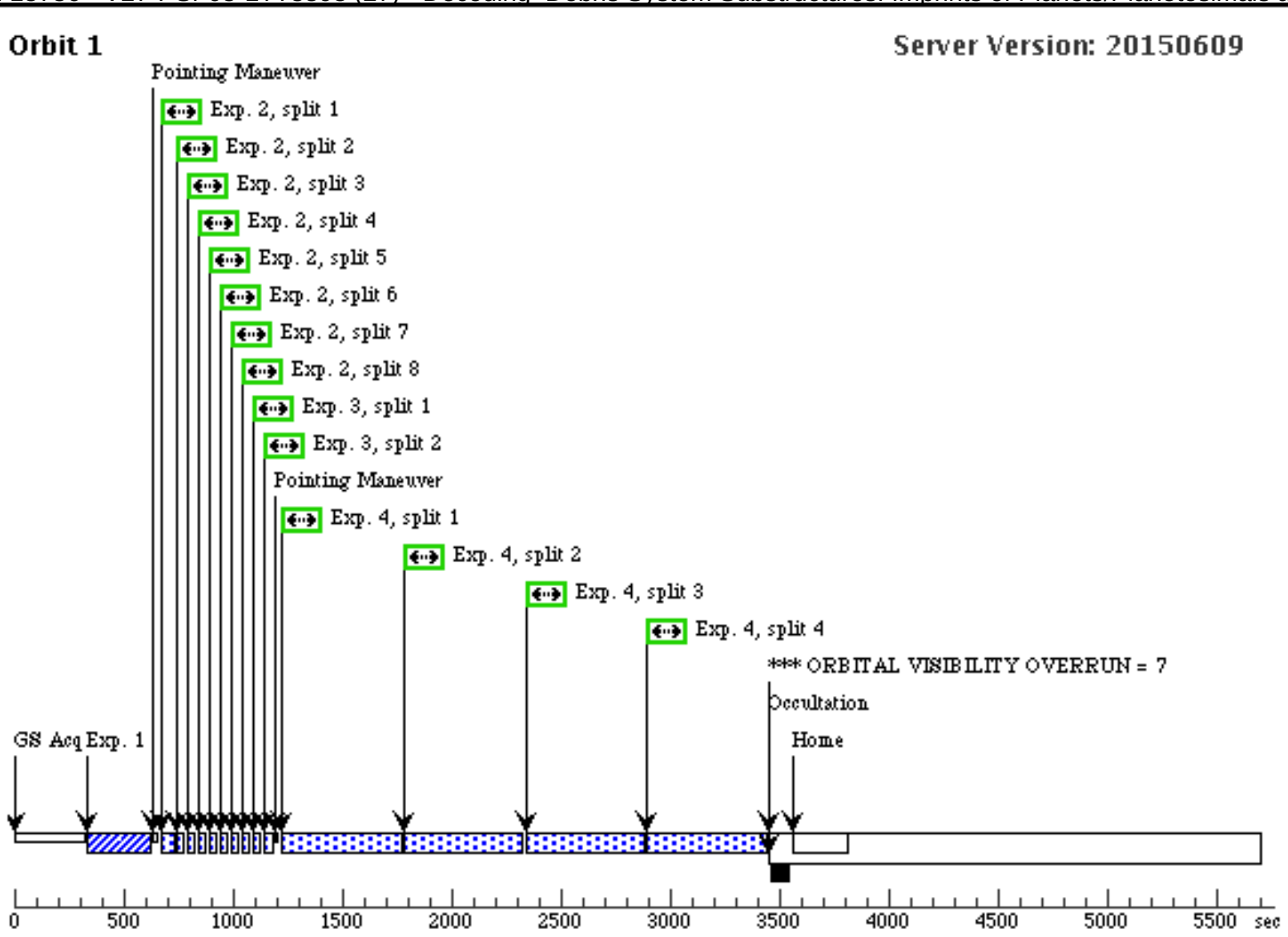
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	PSF03-LTT8893-HD202917	RA: 22 10 49.6679 (332.7069496d) Dec: -55 27 25.68 (-55.45713d) Equinox: J2000	Proper Motion RA: 194.06 mas/yr Proper Motion Dec: -136.74 mas/yr Parallax: 0.01901" Epoch of Position: 2000.0	V=7.22 B-V = +0.66. delta(B-V) = +0.01. Spectral Type G3V. Slew to matched target 7.7 deg	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PSF03-LTT889_ACQ (STIS.ta.617096)	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.3 Secs (0.3 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 6.22, sp = G3V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618251*								
2	PSF03-LTT889_SHORT_1	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			211.36 Secs (211.36 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *LTT 8893 is V = 7.22, so saturation in 29.38s.* *So 90% full well in appx 26.43s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								
3	PSF03-LTT889_SHORT_2	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=2; GAIN=4			52.86 Secs (52.86 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *LTT 8893 is V = 7.22, so saturation in 29.38s.* *So 90% full well in appx 26.43s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								
4	PSF03-LTT889_LONG_1	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=4; GAIN=4			2114.4 Secs (2114.4 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *LTT 8893 is V = 7.22, so saturation in 29.38s.* *So 90% full well in appx 26.43s.* *For long exposures at WedgeA1.0 go (at least (x20) deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								

Orbit Structure



Visit

Proposal 13786, V28-HD202917 (28), failed Thu Aug 06 01:07:42 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -60D TO -41D FROM 25; AFTER 27 BY .5 Orbits TO 1.5 Orbits

Comments: HD 202917 (V=8.67, B-V = +0.65).
Second of two sets of visits, each containing three visits of HD 202917 at different relative orientations with one PSF calibration observation interleaved.
This is the third HD 202917 visit in the first set.
The four visits within each set must be executed sequentially in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (28) at -60 deg from Visit 05.
We allow a relative orientation tolerence from -41 deg to -60 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -60 deg from Visit 25 as possible.

Relative Timing: This visit (28) should immediately follow Visit 27. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V28-HD202917 (28)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V28-HD202917 (28)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V28-HD202917 (28)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V28-HD202917 (28)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V28-HD202917 (28)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V28-HD202917 (28)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V28-HD202917 (28)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V28-HD202917 (28)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V28-HD202917 (28)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

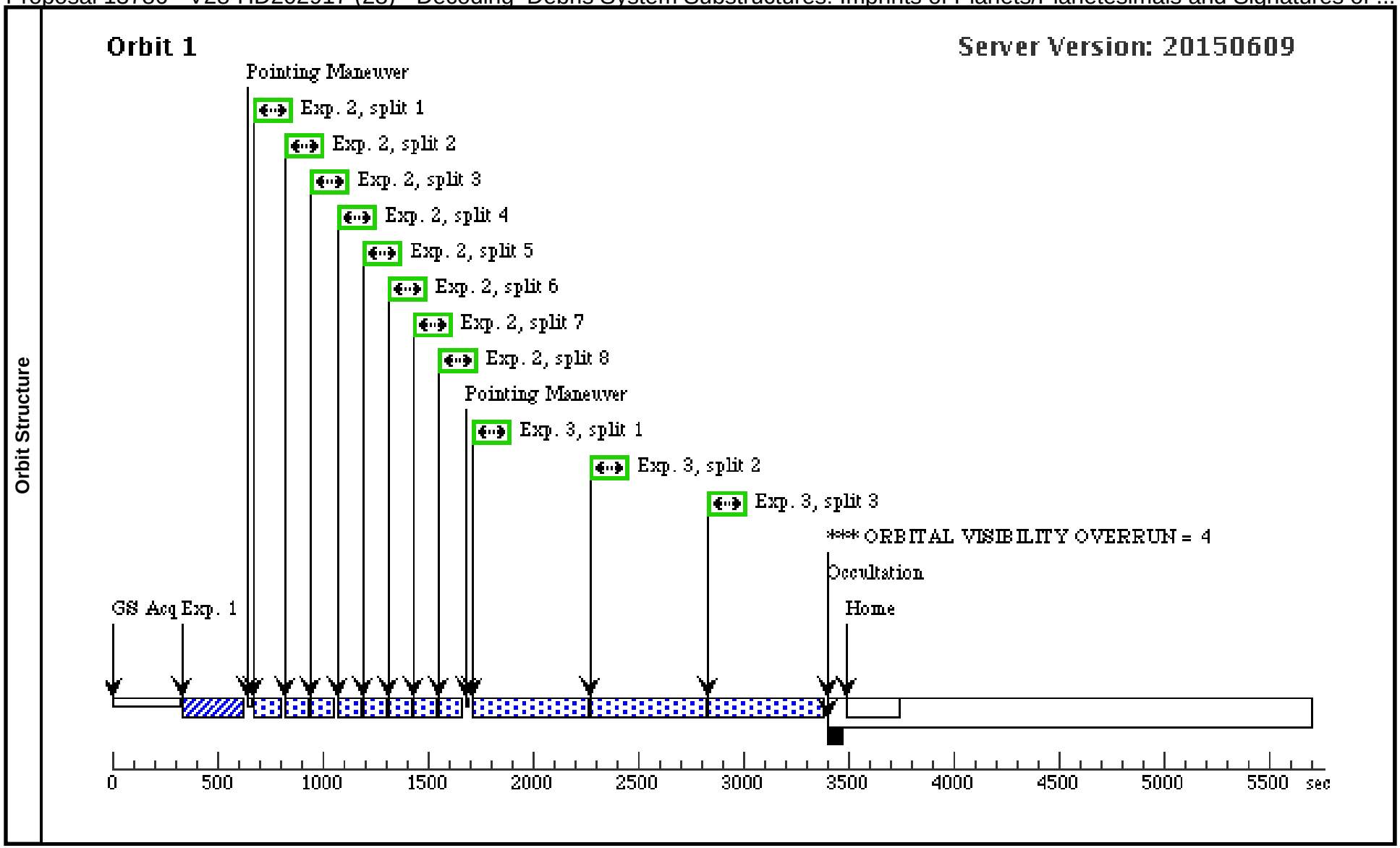
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD-202917	RA: 21 20 49.9551 (320.2081462d)	Proper Motion RA: 28.77 mas/yr	V=8.67	Reference Frame: ICRS
		Dec: -53 02 3.14 (-53.03421d)	Proper Motion Dec: -94.19 mas/yr	B-V =+0.65,	
		Equinox: J2000	Parallax: 0.02327"	Spectral Type: G7V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202917_ ACQ (STIS.ta.618240)	(3) HD-202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		1.1 Secs (1.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 8,67, sp = G7V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618240*								
2	HD202917_ SHORTS_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			800 Secs (800 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202917_ LONG_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4			1599 Secs (1599 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								


Orbit 1
Server Version: 20150609
Orbit Structure
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Exp. 2, split 3
Exp. 2, split 4
Exp. 2, split 5
Exp. 2, split 6
Exp. 2, split 7
Exp. 2, split 8
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
*** ORBITAL VISIBILITY OVERRUN = 4
Occultation
GS Acq Exp. 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13786, V31-HD141569 (31), scheduling Thu Aug 06 01:07:42 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT 10D TO 20D FROM 32

Comments: HD 141569 (V=7.12, B-V = +0.08).
First of two sets of visits, each containing three visits of HD 141569 at different relative orientations with one PSF calibration observation interleaved.
This is the first HD 141569 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Relative Orientation: Due to schedualability issues this target only is observed over a reduced foll range, and the relative orientations except for Visit 35 are defined with opposite partity as for our other targets.

NOTE to PC: In Visit 31, the relative orient from range w.r.t. Visit 32 is specified as +10 to +20 deg. PLEASE schedule as close to +15 deg relative orientation as possible - but see note on Visit 35.

Relative Timing: This visit (31) should immediately preceed visit (32). I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V31-HD141569 (31)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V31-HD141569 (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V31-HD141569 (31)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V31-HD141569 (31)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HD-141569	RA: 15 49 57.7478 (237.4906158d) Dec: -03 55 16.34 (-3.92121d) Equinox: J2000	Proper Motion RA: -18.41 mas/yr Proper Motion Dec: -19.25 mas/yr Parallax: 0.00861" Epoch of Position: 2000.0	V=7.12 B-V =+0.08, Spectral Type: A0V.	Reference Frame: ICRS

Comments: USING BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD141569_ACQ (STIS.ta.617096)	(4) HD-141569	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.3 Secs (0.3 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 7.12, sp = A0V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618242*								
2	HD141569_BAR5_CENTER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 141569 is V = 7.12 so saturation in 7.05s.* *So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HD141569_BAR5_PLUSDITHER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel above the midline mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 141569 is V = 7.12 so saturation in 7.05s.* *So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HD141569_BAR5_MIN USDITHER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore ca ll out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel below the midline mid-line of BAR5. We then use a subarray readou t of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

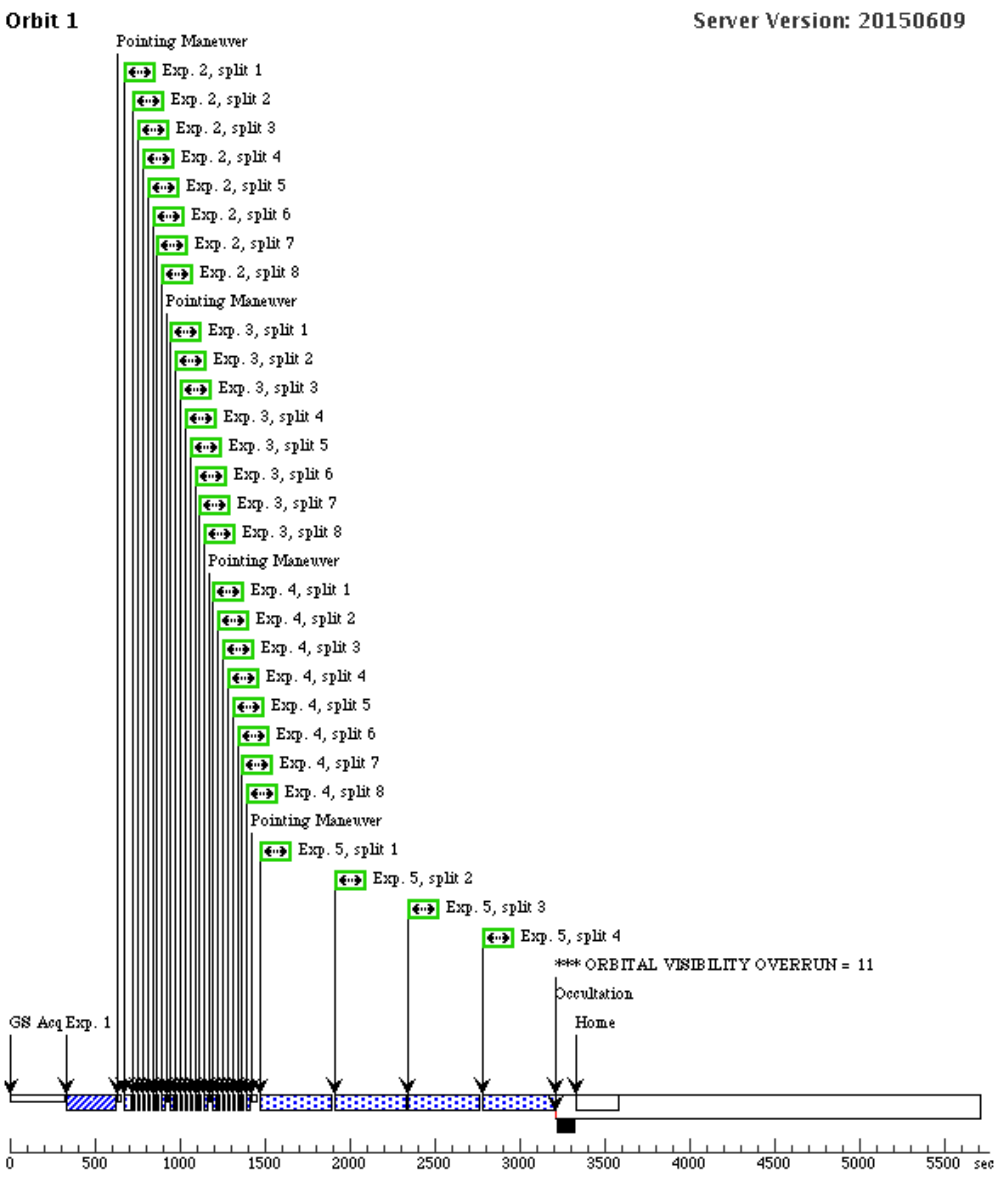
*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HD 141569 is V = 7.12 so saturation in 7.05s.
So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HD141569_LONG	(4) HD-141569	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=4; GAIN=4		1623 Secs (1623 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 141569 is V = 7.12 so saturation in 26.79s.
So 90% full well in appx 24.11s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V32-HD141569 (32), scheduling Thu Aug 06 01:07:42 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 31 BY .5 Orbits TO 1.5 Orbits

Comments: HD 141569 (V=7.12, B-V = +0.08).
First of two sets of visits, each containing three visits of HD 141569 at different relative orientations with one PSF calibration observation interleaved.
This is the second HD 141569 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: There are no orientation constraints on this visit (32).
This visit at nominal roll as scheduled by STScI.
Visits 31, 34, 35, 36 and 38 carry relative orientation constraints w.r.t. this visit.

Relative Timing: This visit (32) should immediately follow Visit 31 and immediately preceed Visit 33 in back-to-back orbits.

Diagnostics

(V32-HD141569 (32)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V32-HD141569 (32)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HD-141569	RA: 15 49 57.7478 (237.4906158d) Dec: -03 55 16.34 (-3.92121d) Equinox: J2000	Proper Motion RA: -18.41 mas/yr Proper Motion Dec: -19.25 mas/yr Parallax: 0.00861" Epoch of Position: 2000.0	V=7.12 B-V =+0.08, Spectral Type: A0V.	Reference Frame: ICRS

Comments: USING BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD141569_ACQ (STIS.ta.617096)	(4) HD-141569	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.3 Secs (0.3 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 7.12, sp = A0V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618242*								
2	HD141569_BAR5_CENTER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 141569 is V = 7.12 so saturation in 7.05s.* *So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HD141569_BAR5_PLUSDITHER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel above the midline mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 141569 is V = 7.12 so saturation in 7.05s.* *So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HD141569_BAR5_MIN USDITHER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel below the midline mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

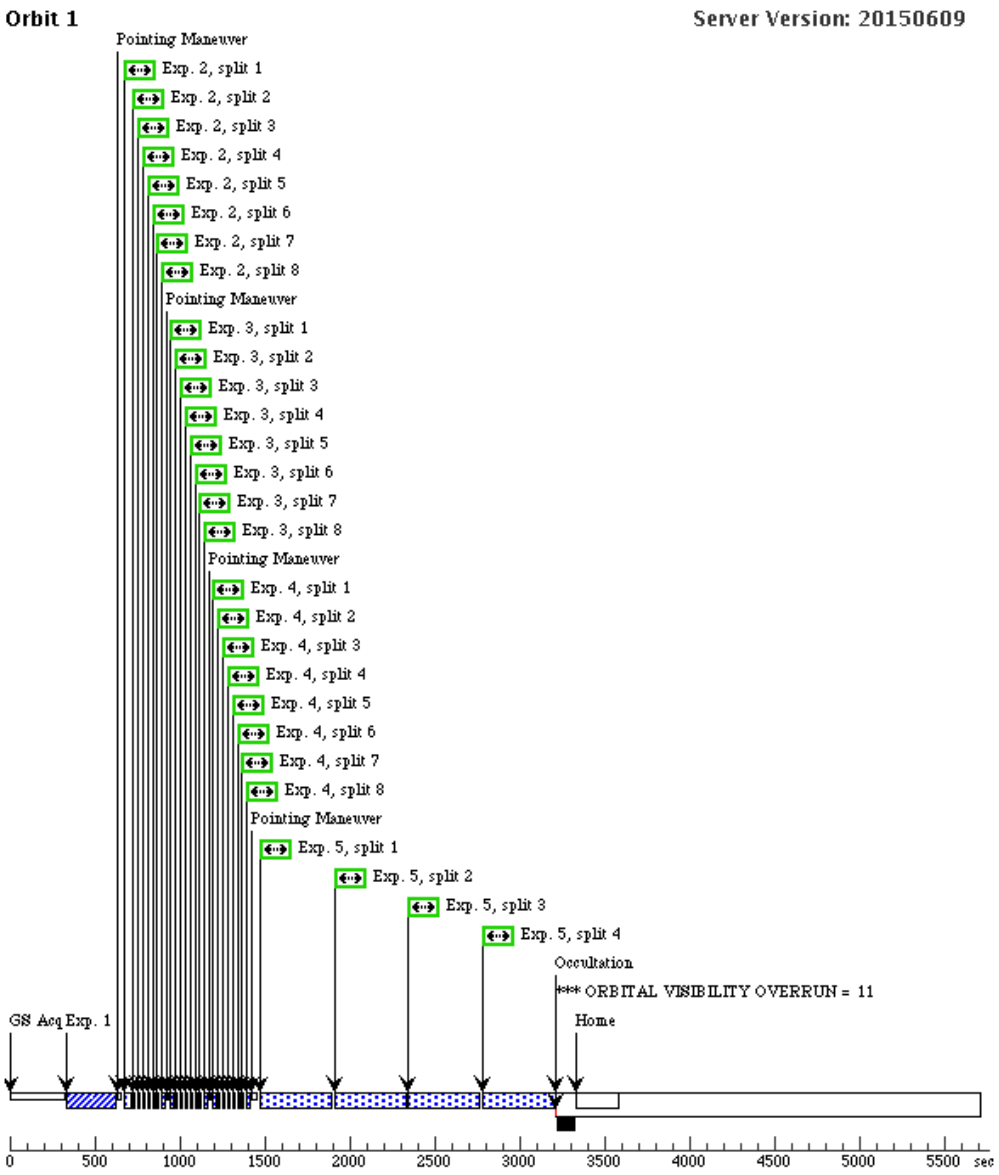
*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HD 141569 is V = 7.12 so saturation in 7.05s.
So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HD141569_LONG	(4) HD-141569	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=4; GAIN=4		1623 Secs (1623 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 141569 is V = 7.12 so saturation in 26.79s.
So 90% full well in appx 24.11s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V33-PSF04-HD135298 (33), scheduling Thu Aug 06 01:07:42 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 32 BY .5 Orbits TO 1.5 Orbits

Comments: PSF04 (HD 135298. PSF calibration target for HD HD 141569. V = 7.20. B - V = +0.08. Sp A0

This is the PSF star calibrator for the flanking visits (31-34). We levy no orientation constraints on this visit (33). However, we choose this target very close in the sky to its paired science target. So as Visits 32 and 33 must be scheduled in sequential contiguous orbits, if scheduled at nominal roll (as we expect also Visit 06 will be) then we expect absolute orientations of Visits 06 and 07 to be very similar (within a few degrees). This is important so we maintain similar Sun and Beta angles for the science target and its PSF calibrator,

Relative Timing: This visit (33) should immediately follow visit 32 and immediately precede visit 34. I.e., they should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V33-PSF04-HD135298 (33)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V33-PSF04-HD135298 (33)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V33-PSF04-HD135298 (33)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V33-PSF04-HD135298 (33)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V33-PSF04-HD135298 (33)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V33-PSF04-HD135298 (33)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V33-PSF04-HD135298 (33)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V33-PSF04-HD135298 (33)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	PSF04-HD-135298-HD141569A	RA: 15 14 28.6337 (228.6193071d) Dec: -03 21 51.92 (-3.36442d) Equinox: J2000	Proper Motion RA: -29.28 mas/yr Proper Motion Dec: -5.86 mas/yr Parallax: 0.00671" Epoch of Position: 2000.0	V=7.196 B-V = +0.08. delta(B-V) = 0.00. Spectral Type A0. Slew to matched target 8.9deg	Reference Frame: ICRS

Comments: Using BAR 5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD135298_ACQ (STIS.ta.618246)	(9) PSF04-HD-135298-HD141569A	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.4 Secs (0.4 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 7.20, sp = A0, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618246*								
2	HD135298_BAR5_CENTER	(9) PSF04-HD-135298-HD141569A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		54.6 Secs (54.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 135298 is V = 7.20 so saturation in 7.59s.* *So 90% full well in appx 6.83s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HD135298_BAR5_PLUSDITHER	(9) PSF04-HD-135298-HD141569A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		54.6 Secs (54.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 135298 is V = 7.20 so saturation in 7.59s.* *So 90% full well in appx 6.83s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HD135298_BAR5_MIN USDITHER	(9) PSF04-HD-1352 98-HD141569A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	54.6 Secs (54.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore ca ll out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

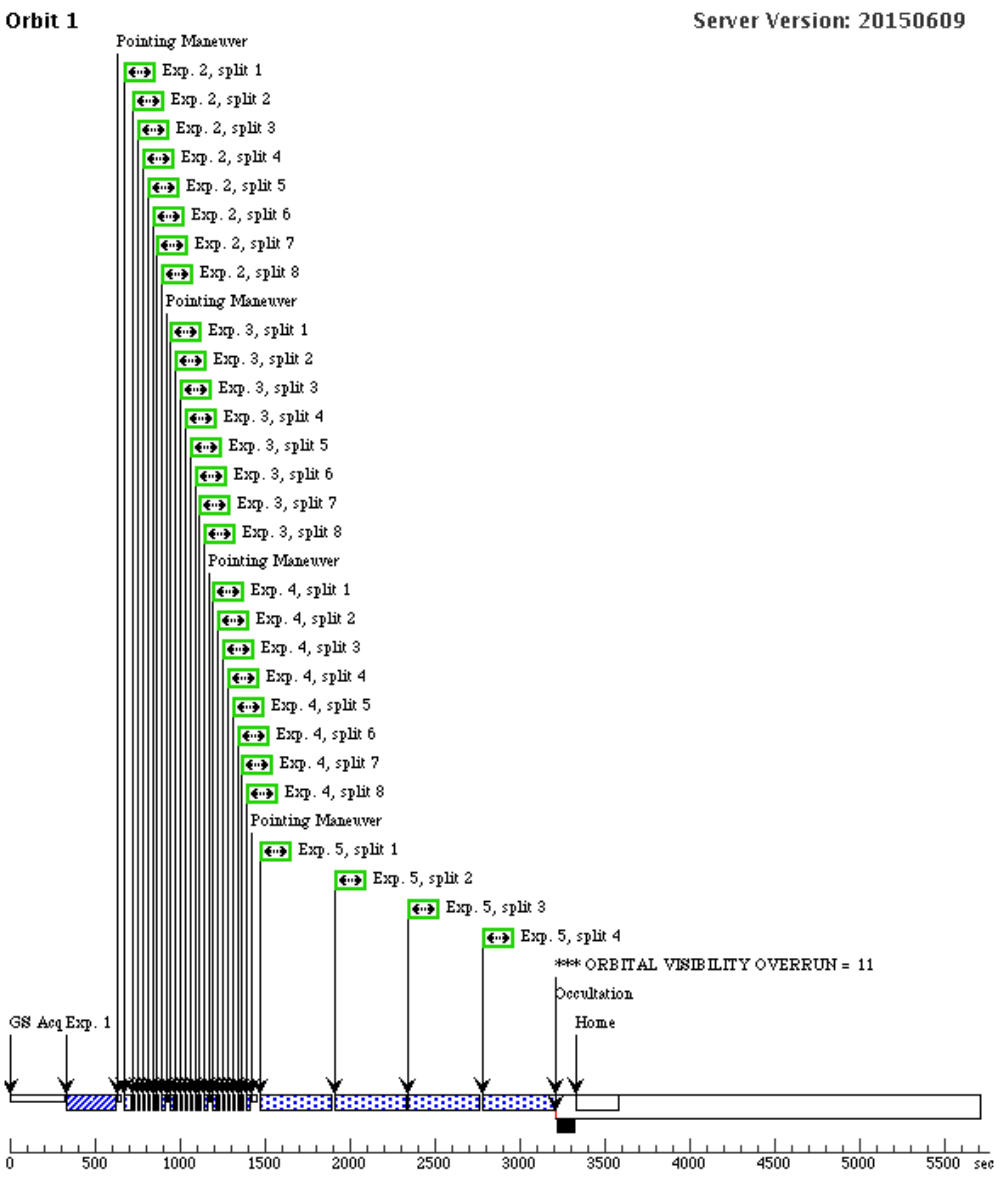
*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HD 135298 is V = 7.20 so saturation in 7.59s.
So 90% full well in appx 6.83s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HD135298_LONG	(9) PSF04-HD-1352 98-HD141569A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=4; GAIN=4		1622 Secs (1622 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HD 135298 is V = 7.20 so saturation in 7.59s.
So 90% full well in appx 6.83s.
For long exposures at WedgeA1.0 go > 10x deeper in each that will fit into remainer of visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V34-HD141569 (34), scheduling Thu Aug 06 01:07:42 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -20D TO -10D FROM 32; AFTER 33 BY .5 Orbits TO 1.5 Orbits

Comments: HD 141569 (V=7.12, B-V = +0.08).
First of two sets of visits, each containing three visits of HD 141569 at different relative orientations with one PSF calibration observation interleaved.
This is the third HD 141569 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Relative Orientation: Due to schedualability issues this target only is observed over a reduced foll range, and the relative orientations except for Visit 35 are defined with opposite partity as for our other targets.

NOTE to PC: In Visit 31, the relative orient from range w.r.t. Visit 32 is specified as -20 to -10 deg. PLEASE schedule as close to -15 deg relative orientation as possible - but see note on Visit 35.

Relative Timing: This visit (34) should immediately follow Visit 33. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V34-HD141569 (34)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V34-HD141569 (34)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V34-HD141569 (34)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HD-141569	RA: 15 49 57.7478 (237.4906158d) Dec: -03 55 16.34 (-3.92121d) Equinox: J2000	Proper Motion RA: -18.41 mas/yr Proper Motion Dec: -19.25 mas/yr Parallax: 0.00861" Epoch of Position: 2000.0	V=7.12 B-V =+0.08, Spectral Type: A0V.	Reference Frame: ICRS

Comments: USING BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD141569_ACQ (STIS.ta.617096)	(4) HD-141569	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.3 Secs (0.3 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 7.12, sp = A0V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618242*								
2	HD141569_BAR5_CENTER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 141569 is V = 7.12 so saturation in 7.05s.* *So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HD141569_BAR5_PLUSDITHER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel above the midline mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 141569 is V = 7.12 so saturation in 7.05s.* *So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HD141569_BAR5_MIN USDITHER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel below the midline mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

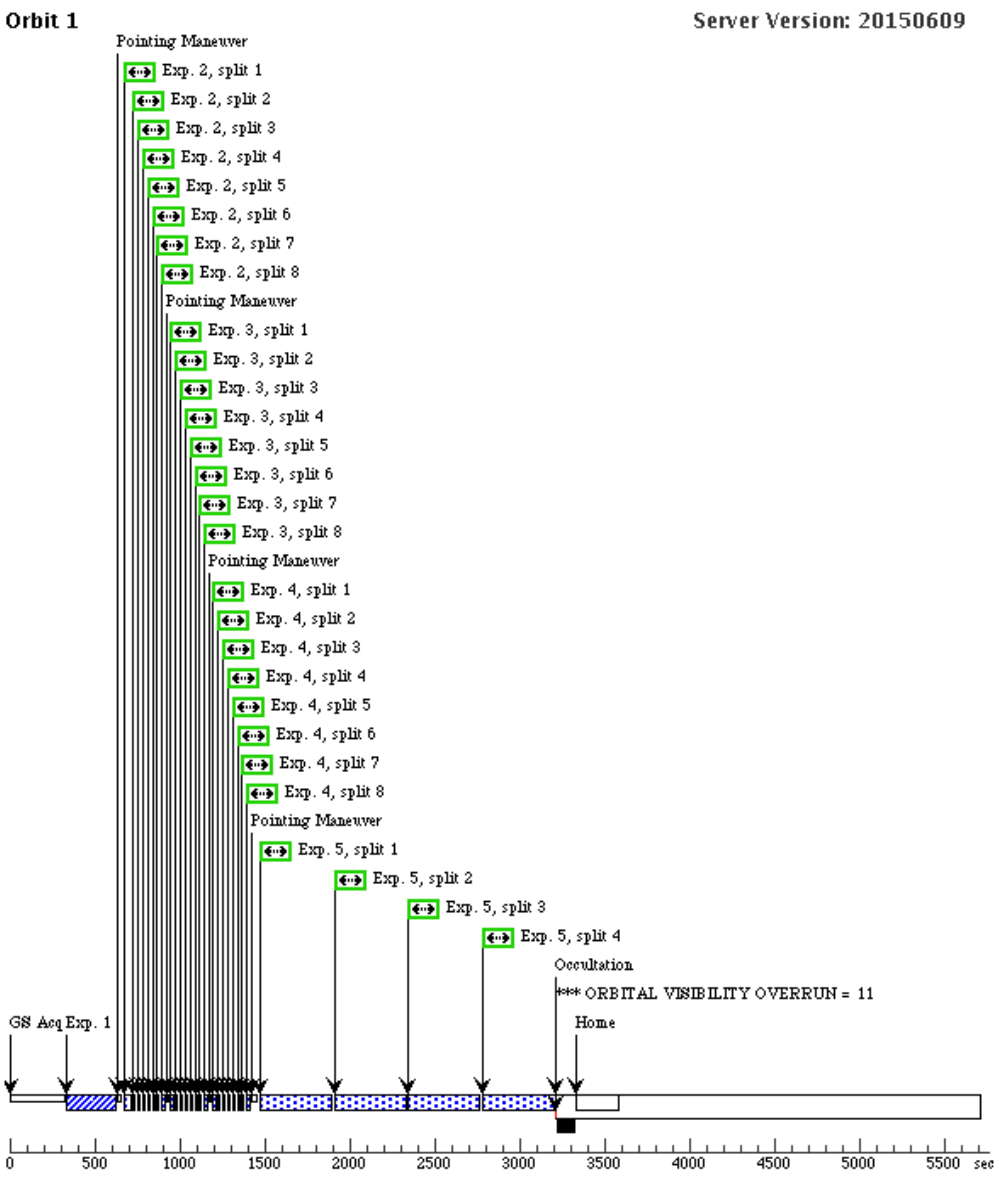
*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HD 141569 is V = 7.12 so saturation in 7.05s.
So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HD141569_LONG	(4) HD-141569	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=4; GAIN=4		1623 Secs (1623 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 141569 is V = 7.12 so saturation in 26.79s.
So 90% full well in appx 24.11s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V35-HD141569 (35), completed Thu Aug 06 01:07:42 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT 55D TO 100D FROM 31

Comments: HD 141569 (V=7.12, B-V = +0.08).
Second of two sets of visits, each containing three visits of HD 141569 at different relative orientations with one PSF calibration observation interleaved.
This is the first HD 141569 visit in the second set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Relative Orientation: Due to schedualability issues this target only is observed over a reduced foll range. Here, for Visit 55 we specify a relative orientation from Visit 31 of +55 to +100 deg. However, we do not expect schedualability with other link-set relative orientation constraints much larger than 55 deg.

NOTE to PC: If it is possible to acheive an increaded relative orientation greater than appx +55 deg from Visit 31 we would like to do so (+90 deg would be ideal. We do NOT wish to do this, however, at the expense of further reucing the relative orientation minimum values on visits 31, 34, 36, or 38.

Relative Timing: Schedule in orbit immediately before Visit 36.

Diagnostics

(V35-HD141569 (35)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V35-HD141569 (35)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V35-HD141569 (35)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HD-141569	RA: 15 49 57.7478 (237.4906158d)	Proper Motion RA: -18.41 mas/yr	V=7.12	Reference Frame: ICRS
		Dec: -03 55 16.34 (-3.92121d)	Proper Motion Dec: -19.25 mas/yr	B-V =+0.08,	
		Equinox: J2000	Parallax: 0.00861"	Spectral Type: A0V.	
			Epoch of Position: 2000.0		

Comments: USING BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD141569_ACQ (STIS.ta.617096)	(4) HD-141569	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.3 Secs (0.3 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 7.12, sp = A0V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618242*								
2	HD141569_BAR5_CENTER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 141569 is V = 7.12 so saturation in 7.05s.* *So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HD141569_BAR5_PLUSDITHER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel above the midline mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 141569 is V = 7.12 so saturation in 7.05s.* *So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HD141569_BAR5_MIN USDITHER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel below the midline mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

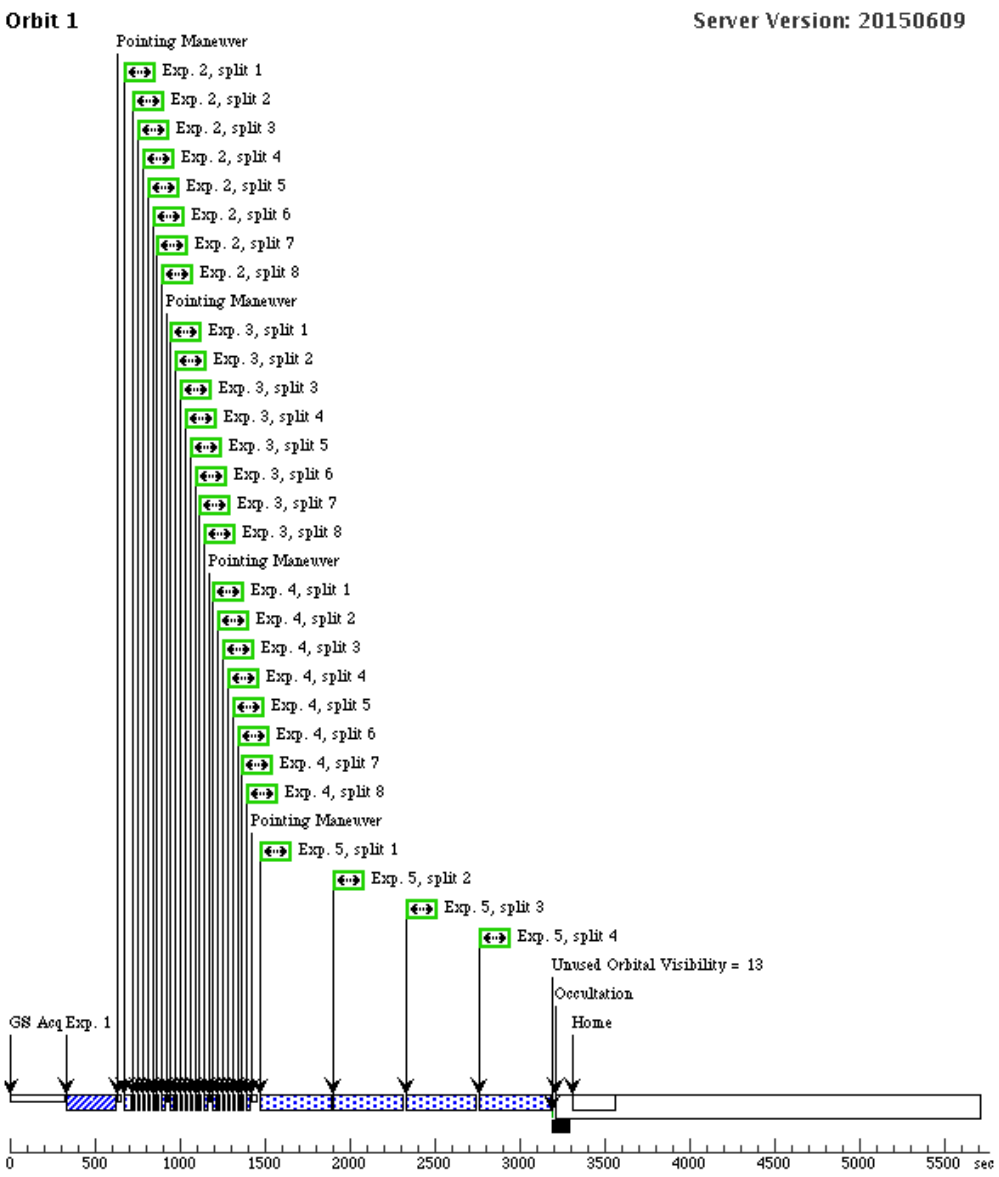
*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HD 141569 is V = 7.12 so saturation in 7.05s.
So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HD141569_LONG	(4) HD-141569	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=4; GAIN=4		1600 Secs (1600 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 141569 is V = 7.12 so saturation in 26.79s.
So 90% full well in appx 24.11s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V36-HD141569 (36), completed

Thu Aug 06 01:07:42 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -20D TO -10D FROM 35; AFTER 35 BY .5 Orbits TO 1.5 Orbits

Comments: HD 141569 (V=7.12, B-V = +0.08).
Second of two sets of visits, each containing three visits of HD 141569 at different relative orientations with one PSF calibration observation interleaved.
This is the second HD 141569 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Relative Orientation: Due to schedualability issues this target only is observed over a reduced foll range, and the relative orientations except for Visit 35 are defined with opposite partity as for our other targets.

NOTE to PC: In Visit 36, the relative orient from range w.r.t. Visit 35 is specified as -20 to -10 deg. PLEASE schedule as close to -15 deg relative orientation as possible - but see note on Visit 35.

Relative Timing: This visit (36) should immediately follow visit 35 and immediately precede visit 37. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V36-HD141569 (36)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V36-HD141569 (36)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HD-141569	RA: 15 49 57.7478 (237.4906158d)	Proper Motion RA: -18.41 mas/yr	V=7.12	Reference Frame: ICRS
		Dec: -03 55 16.34 (-3.92121d)	Proper Motion Dec: -19.25 mas/yr	B-V =+0.08,	
		Equinox: J2000	Parallax: 0.00861"	Spectral Type: A0V.	
			Epoch of Position: 2000.0		

Comments: USING BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD141569_ACQ (STIS.ta.617096)	(4) HD-141569	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.3 Secs (0.3 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 7.12, sp = A0V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618242*								
2	HD141569_BAR5_CENTER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 141569 is V = 7.12 so saturation in 7.05s.* *So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HD141569_BAR5_PLUSDITHER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel above the midline mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 141569 is V = 7.12 so saturation in 7.05s.* *So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HD141569_BAR5_MIN USDITHER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore ca ll out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel below the midline mid-line of BAR5. We then use a subarray readou t of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

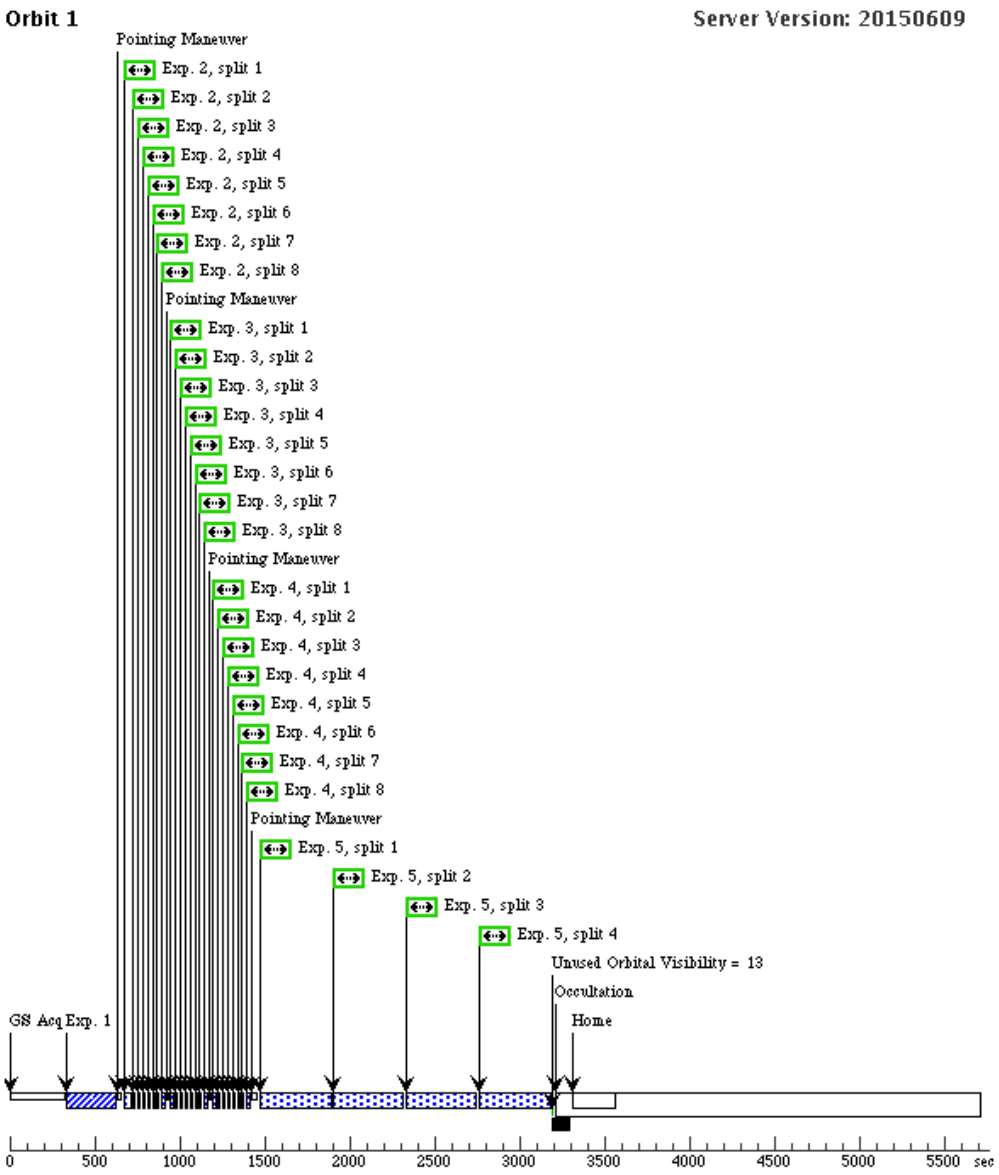
*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HD 141569 is V = 7.12 so saturation in 7.05s.
So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HD141569_LONG	(4) HD-141569	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=4; GAIN=4		1600 Secs (1600 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 141569 is V = 7.12 so saturation in 26.79s.
So 90% full well in appx 24.11s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V37-PSF04-HD135298 (37), completed Thu Aug 06 01:07:43 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 36 BY .5 Orbits TO 1.5 Orbits

Comments: PSF04 (HD 135298. PSF calibration target for HD HD 141569. V = 7.20. B - V = +0.08. Sp A0

This is the PSF star calibrator for the flanking visits (35-38). We levy no orientation constraints on this visit (37). However, we choose this target very close in the sky to its paired science target. So as Visits 36 and 37 must be scheduled in sequential contiguous orbits, if scheduled at nominal roll (as we expect also Visit 36 will be) then we expect absolute orientations of Visits 36 and 37 to be very similar (within a few degrees). This is important so we maintain similar Sun and Beta angles for the science target and its PSF calibrator,

Relative Timing: This visit (37) should immediately follow visit 36 and immediately precede visit 38. I.e., they should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V37-PSF04-HD135298 (37)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V37-PSF04-HD135298 (37)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V37-PSF04-HD135298 (37)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	PSF04-HD-135298-HD141569A	RA: 15 14 28.6337 (228.6193071d) Dec: -03 21 51.92 (-3.36442d) Equinox: J2000	Proper Motion RA: -29.28 mas/yr Proper Motion Dec: -5.86 mas/yr Parallax: 0.00671" Epoch of Position: 2000.0	V=7.196 B-V = +0.08. delta(B-V) = 0.00. Spectral Type A0. Slew to matched target 8.9deg	Reference Frame: ICRS

Comments: Using BAR 5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD135298_ACQ (STIS.ta.618246)	(9) PSF04-HD-135298-HD141569A	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.4 Secs (0.4 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 7.20, sp = A0, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618246*								
2	HD135298_BAR5_CENTER	(9) PSF04-HD-135298-HD141569A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		54.6 Secs (54.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 135298 is V = 7.20 so saturation in 7.59s.* *So 90% full well in appx 6.83s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HD135298_BAR5_PLUSDITHER	(9) PSF04-HD-135298-HD141569A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		54.6 Secs (54.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 135298 is V = 7.20 so saturation in 7.59s.* *So 90% full well in appx 6.83s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HD135298_BAR5_MIN USDITHER	(9) PSF04-HD-1352 98-HD141569A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	54.6 Secs (54.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore ca ll out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

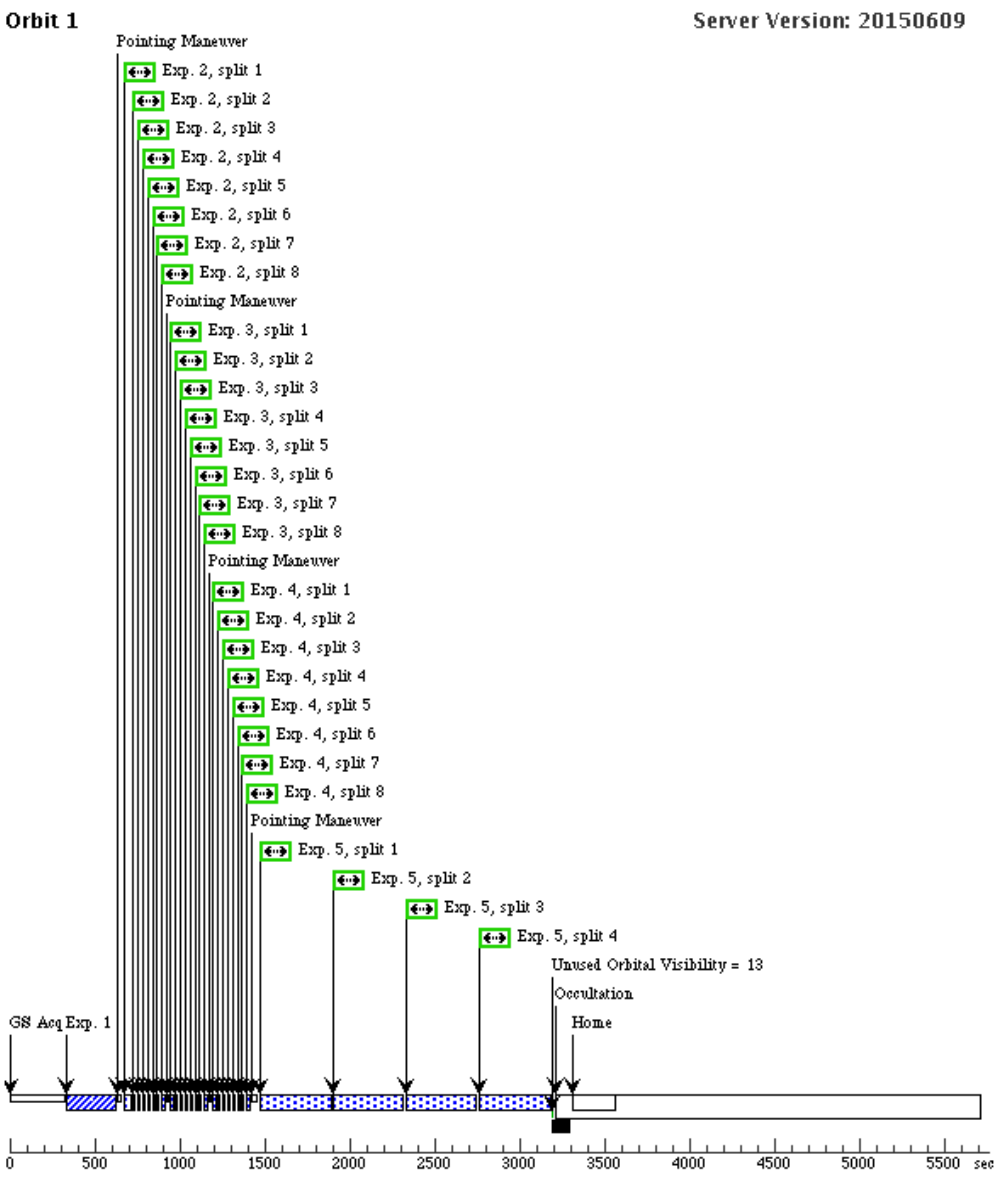
*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HD 135298 is V = 7.20 so saturation in 7.59s.
So 90% full well in appx 6.83s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HD135298_LONG	(9) PSF04-HD-1352 98-HD141569A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=4; GAIN=4		1600 Secs (1600 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" (Wedge0.6) from wings of stellar PSF in 1 second for V=3.55
*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HD 135298 is V = 7.20 so saturation in 7.59s.
So 90% full well in appx 6.83s.
For long exposures at WedgeA1.0 go > 10x deeper in each that will fit into remainer of visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V38-HD141569 (38), completed Thu Aug 06 01:07:43 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -35D TO -25D FROM 35; AFTER 37 BY .5 Orbits TO 1.5 Orbits

Comments: HD 141569 (V=7.12, B-V = +0.08).
Second of two sets of visits, each containing three visits of HD 141569 at different relative orientations with one PSF calibration observation interleaved.
This is the third HD 141569 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Relative Orientation: Due to schedualability issues this target only is observed over a reduced foll range, and the relative orientations except for Visit 35 are defined with opposite partity as for our other targets.

NOTE to PC: In Visit 36, the relative orient from range w.r.t. Visit 35 is specified as -35 to -30 deg. PLEASE schedule as close to -30 deg relative orientation as possible - but see note on Visit 35.

Relative Timing: This visit (38) should immediately follow Visit 37. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V38-HD141569 (38)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V38-HD141569 (38)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V38-HD141569 (38)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HD-141569	RA: 15 49 57.7478 (237.4906158d)	Proper Motion RA: -18.41 mas/yr	V=7.12	Reference Frame: ICRS
		Dec: -03 55 16.34 (-3.92121d)	Proper Motion Dec: -19.25 mas/yr	B-V =+0.08,	
		Equinox: J2000	Parallax: 0.00861"	Spectral Type: A0V.	
			Epoch of Position: 2000.0		

Comments: USING BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD141569_ACQ (STIS.ta.617096)	(4) HD-141569	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.3 Secs (0.3 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 7.12, sp = A0V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618242*								
2	HD141569_BAR5_CENTER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 141569 is V = 7.12 so saturation in 7.05s.* *So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HD141569_BAR5_PLUSDITHER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel above the midline mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HD 141569 is V = 7.12 so saturation in 7.05s.* *So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HD141569_BAR5_MIN USDITHER	(4) HD-141569	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	50.8 Secs (50.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel below the midline mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

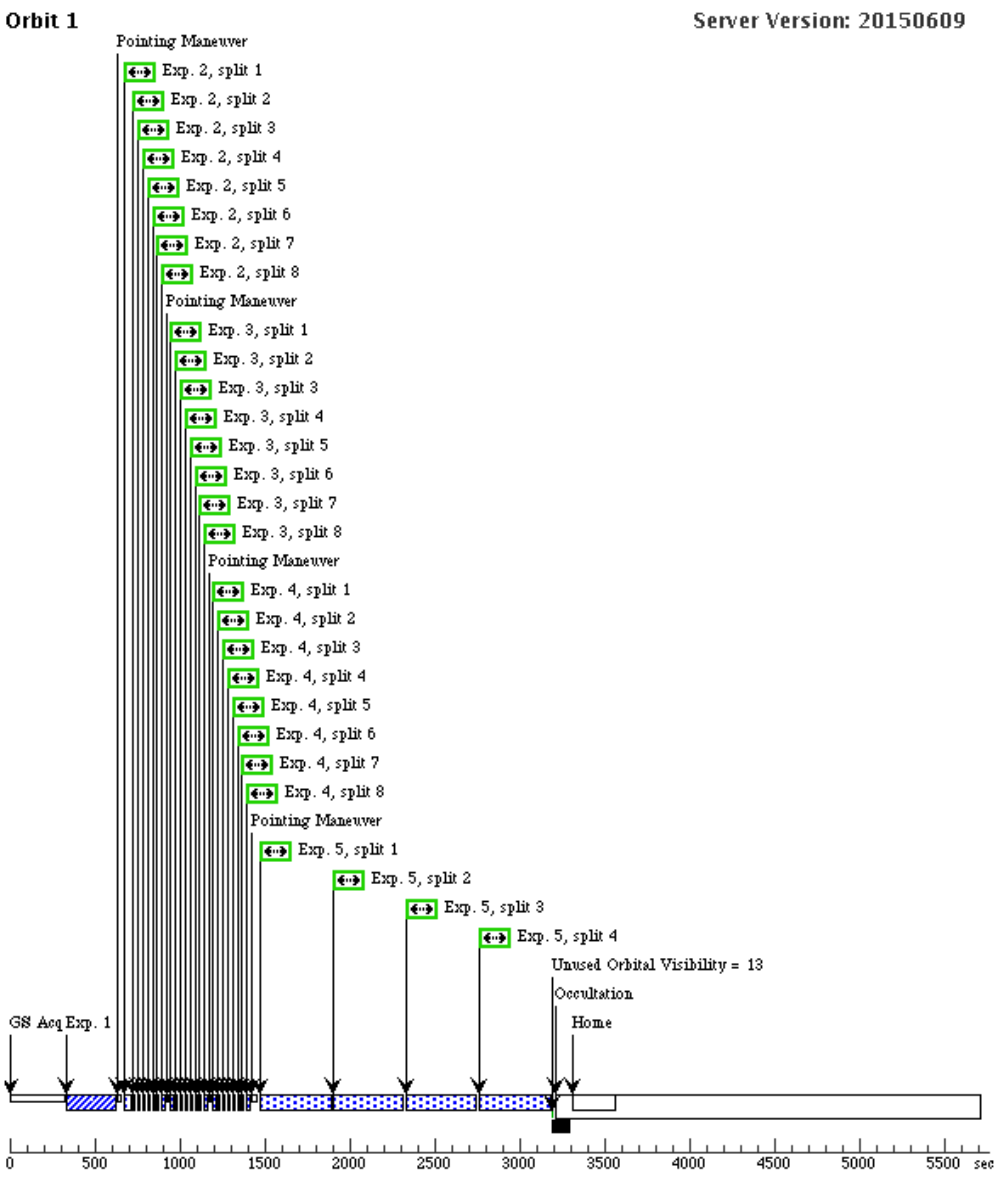
*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HD 141569 is V = 7.12 so saturation in 7.05s.
So 90% full well in appx 6.34s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HD141569_LONG	(4) HD-141569	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=4; GAIN=4		1600 Secs (1600 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HD 141569 is V = 7.12 so saturation in 26.79s.
So 90% full well in appx 24.11s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V41-HR4796 (41), completed Thu Aug 06 01:07:43 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -30D TO -15D FROM 42

Comments: HR 4796 (V=5.78, B-V = +0.01).
First of two sets of visits, each containing three visits of HR 4796 at different relative orientations with one PSF calibration observation interleaved.
This is the first HD 4796 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (41) at -30 deg from Visit 32, with the absolute orientation of Visit 42 unconstrained.
We allow a relative orientation tolerence from -15 deg to -30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -30 deg from Visit 42 as possible.

Relative Timing: This visit (3) should immediately preceed visit (42). I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V41-HR4796 (41)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V41-HR4796 (41)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V41-HR4796 (41)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V41-HR4796 (41)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V41-HR4796 (41)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V41-HR4796 (41)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V41-HR4796 (41)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V41-HR4796 (41)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	HR-4796A	RA: 12 36 1.0310 (189.0042958d)	Proper Motion RA: -56.66 mas/yr	V=5.783	Reference Frame: ICRS
		Dec: -39 52 10.23 (-39.86951d)	Proper Motion Dec: -24.99 mas/yr	B-V =+0.08,	
		Equinox: J2000	Parallax: 0.01374"	Spectral Type: A0V. N.B.	
			Epoch of Position: 2000.0		

Comments: Using BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HR4796_ACQ (STIS.ta.618243)	(5) HR-4796A	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618243*								
2	HR4796_BAR5_CENTER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4796 is V = 5.78 so saturation in 2.09s.* *So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HR4796_BAR5_PLUS DITHER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel above the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4796 is V = 5.78 so saturation in 2.09s.* *So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HR4796_BAR5_PLUS DITHER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore ca ll out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel below the mid-line of BAR5. We then use a subarray readout of CEN TYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HR 4796 is V = 5.78 so saturation in 2.09s.
So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HR4796_LONG_1	(5) HR-4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4		1123.2 Secs (1123.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4796 is V =5.78 so saturation in 7.80s.
So 90% full well in appx 7.02s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

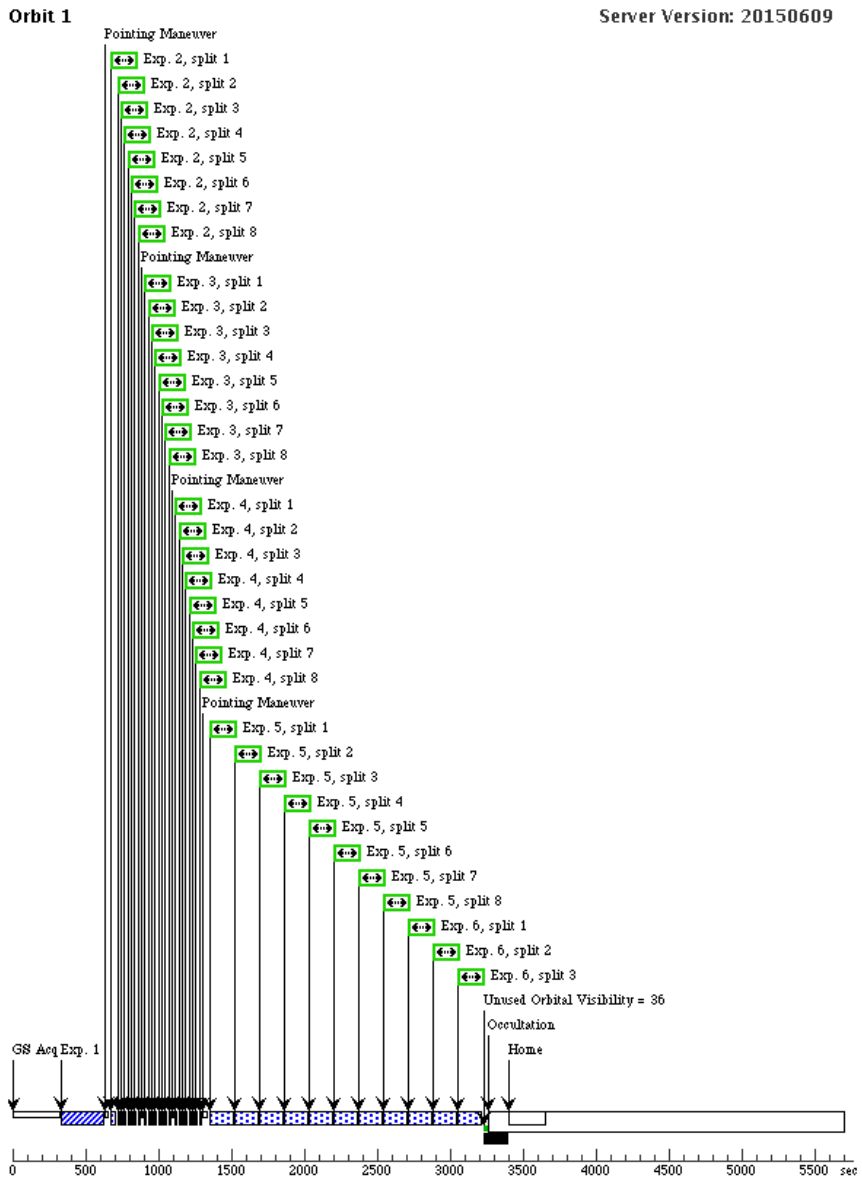
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HR4796_LONG_2	(5) HR-4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4		421.2 Secs (421.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4796 is V =5.78 so saturation in 7.80s.
So 90% full well in appx 7.02s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V42-HR4796 (42), completed Thu Aug 06 01:07:43 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 41 BY .5 Orbits TO 1.5 Orbits

Comments: HR 4796 (V=5.78, B-V = +0.01).
First of two sets of visits, each containing three visits of HR 4796 at different relative orientations with one PSF calibration observation interleaved.
This is the second HD 4796 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: There are no orientation constraints on this visit (42).
This visit at nominal roll as scheduled by STScI.
Visits 41, 44, 45, 46 and 48 carry relative orientation constraints w.r.t. this visit.

Relative Timing: This visit (42) should immediately follow Visit 41 and immediately preceed Visit 43 in back-to-back orbits.

Diagnostics

(V42-HR4796 (42)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V42-HR4796 (42)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V42-HR4796 (42)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	HR-4796A	RA: 12 36 1.0310 (189.0042958d)	Proper Motion RA: -56.66 mas/yr	V=5.783	Reference Frame: ICRS
		Dec: -39 52 10.23 (-39.86951d)	Proper Motion Dec: -24.99 mas/yr	B-V =+0.08,	
		Equinox: J2000	Parallax: 0.01374"	Spectral Type: A0V. N.B.	
			Epoch of Position: 2000.0		

Comments: Using BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HR4796_ACQ (STIS.ta.618243)	(5) HR-4796A	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618243*								
2	HR4796_BAR5_CENTER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4796 is V = 5.78 so saturation in 2.09s.* *So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HR4796_BAR5_PLUS DITHER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel above the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4796 is V = 5.78 so saturation in 2.09s.* *So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HR4796_BAR5_PLUS DITHER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore ca ll out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel below the mid-line of BAR5. We then use a subarray readout of CEN TYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HR 4796 is V = 5.78 so saturation in 2.09s.
So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HR4796_LONG_1	(5) HR-4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4		1123.2 Secs (1123.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4796 is V =5.78 so saturation in 7.80s.
So 90% full well in appx 7.02s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

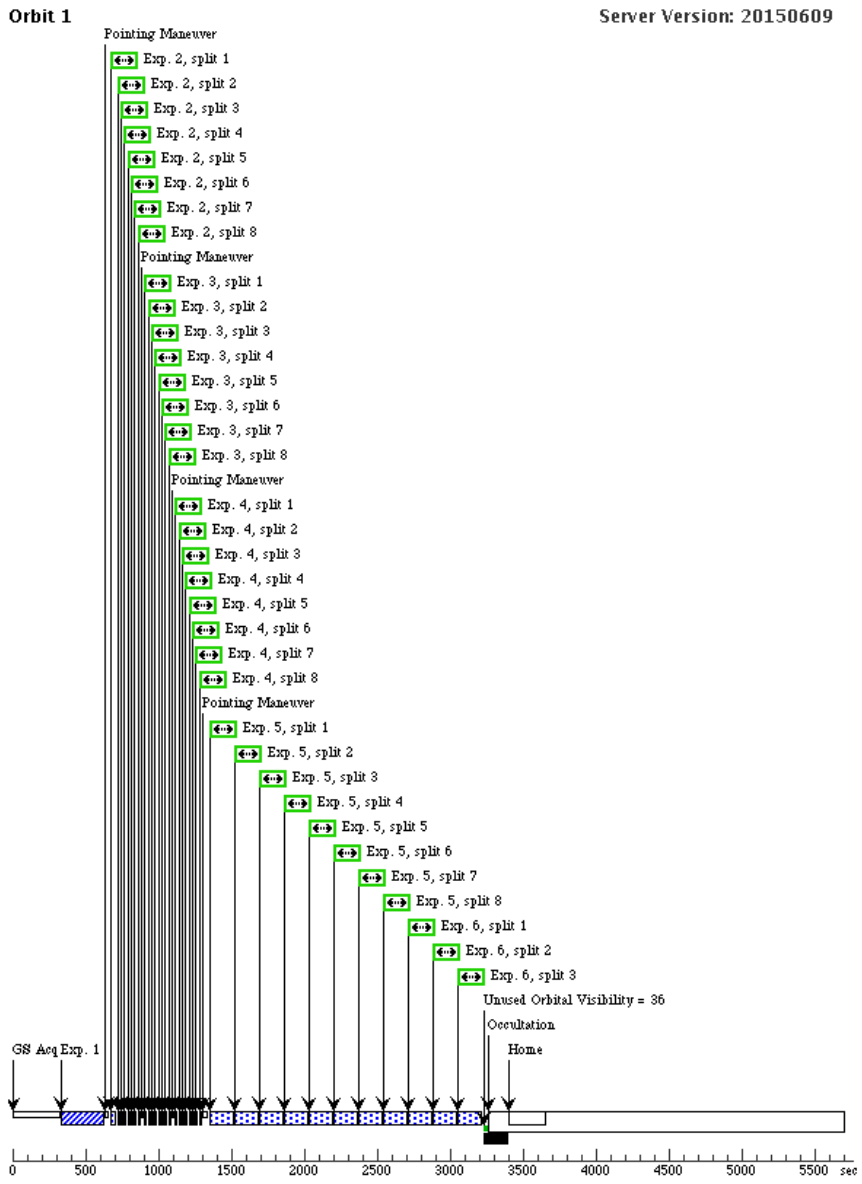
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HR4796_LONG_2	(5) HR-4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4		421.2 Secs (421.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4796 is V =5.78 so saturation in 7.80s.
So 90% full well in appx 7.02s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V43-PSF05-HR4735 (43), completed Thu Aug 06 01:07:43 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 42 BY .5 Orbits TO 1.5 Orbits

Comments: PSF05 (HR 4735). PSF calibration target for HD HD 4786. V = 5.57. B - V = +0.01. Spex. B9V.

This is the PSF star calibrator for the flanking visits (41-44). We levy no orientation constraints on this visit (43). However, we choose this target very close in the sky to its paired science target. So as Visits 42 and 43 must be scheduled in sequential contiguous orbits, if scheduled at nominal roll (as we expect also Visit 42 will be) then we expect absolute orientations of Visits 06 and 07 to be very similar (within a few degrees). This is important so we maintain similar Sun and Beta angles for the science target and its PSF calibrator,

Relative Timing: This visit (43) should immediately follow visit 42 and immediately precede visit 44. I.e., they should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V43-PSF05-HR4735 (43)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	PSF05-HR4735-HR4796A	RA: 12 26 51.6900 (186.7153750d) Dec: -32 49 48.44 (-32.83012d) Equinox: J2000	Proper Motion RA: -6.09 mas/yr Proper Motion Dec: -30.49 mas/yr Parallax: 0.00643" Epoch of Position: 2000.0	V=5.565 B-V = -0.01. delta(B-V) = 0.00. Spectral Type B9V. Slew to mat ched target 87.3 deg	Reference Frame: ICRS

Comments: Using BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HR4735_ACQ (STIS.ta.618247)	(10) PSF05-HR4735-HR4796A	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: V = 5.57, sp = B9V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618247*								
2	HR4735_BAR5_CENTER	(10) PSF05-HR4735-HR4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		12.2 Secs (12.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4735 is V = 5.57 so saturation in 1.69Ss.* *So 90% full well in appx 1.52s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HR4735_BAR5_PLUS DITHER	(10) PSF05-HR4735-HR4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		12.2 Secs (12.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on 1/4 PIXEL ABOVE the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4735 is V = 5.57 so saturation in 1.69Ss.* *So 90% full well in appx 1.52s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HR4735_BAR5_MINUSDITHER	(10) PSF05-HR4735-HR4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	12.2 Secs (12.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on 1/4 pixel below the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appropriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HR 4735 is V = 5.57 so saturation in 1.69Ss.
So 90% full well in appx 1.52s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HR4735_LONG_1	(10) PSF05-HR4735-HR4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4		924.8 Secs (924.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4725 is V =5.57 so saturation in 6.43s.
So 90% full well in appx 5.78s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

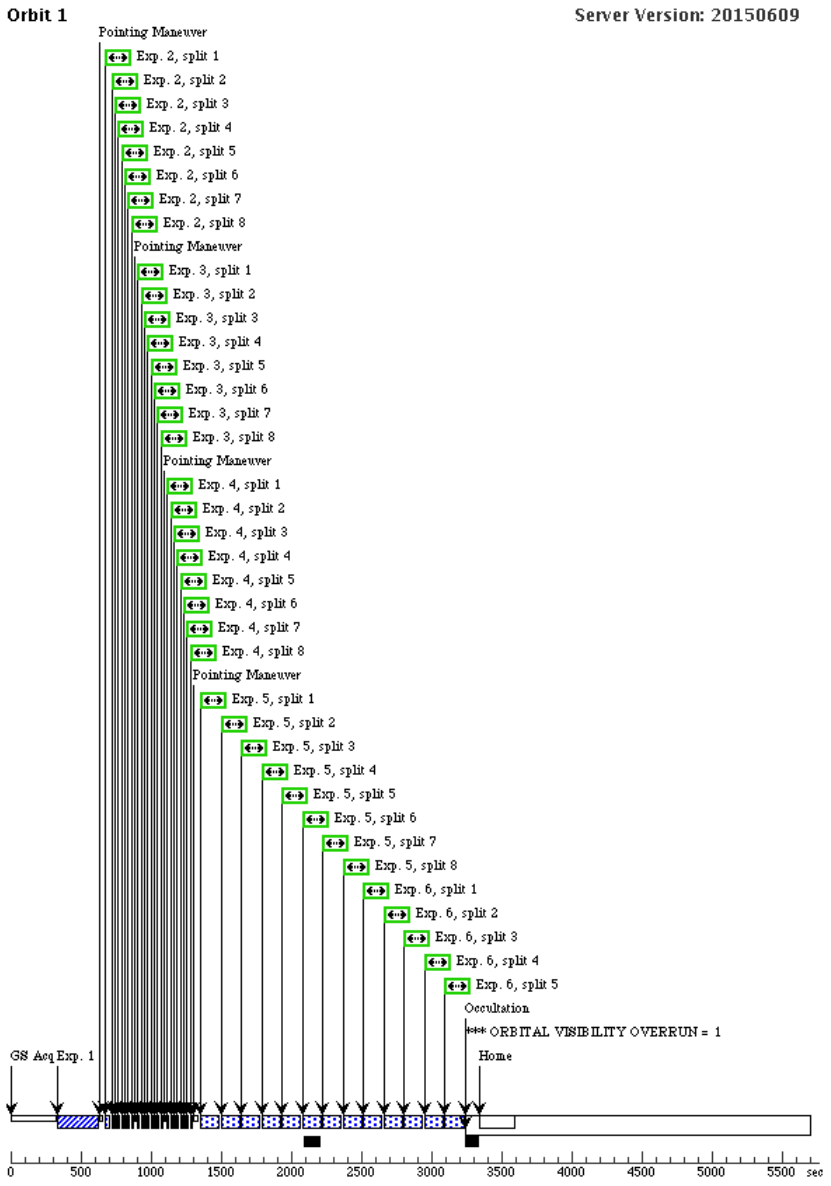
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HR4735_LONG_2	(10) PSF05-HR4735-HR4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; GAIN=4; CR-SPLIT=5		578.0 Secs (578 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4725 is V =5.57 so saturation in 6.43s.
So 90% full well in appx 5.78s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V44-HR4796 (44), completed Thu Aug 06 01:07:43 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT 15D TO 30D FROM 42; AFTER 43 BY 0.5 Orbits TO 1.5 Orbits

Comments: HR 4796 (V=5.78, B-V = +0.01).
Firdst of two sets of visits, each containing three visits of HR 4796 at different relative orientations with one PSF calibration observation interleaved.
This is the third HD 4796 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (44) at +30 deg from Visit 42, with the absolute orientation of Visit 42 unconstrained.
We allow a relative orientation tolerence from +15 deg to +30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to +30 deg from Visit 42 as possible.

Relative Timing: This visit (44) should immediately follow Visit 43. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V44-HR4796 (44)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V44-HR4796 (44)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	HR-4796A	RA: 12 36 1.0310 (189.0042958d)	Proper Motion RA: -56.66 mas/yr	V=5.783	Reference Frame: ICRS
		Dec: -39 52 10.23 (-39.86951d)	Proper Motion Dec: -24.99 mas/yr	B-V =+0.08,	
		Equinox: J2000	Parallax: 0.01374"	Spectral Type: A0V. N.B.	
			Epoch of Position: 2000.0		

Comments: Using BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HR4796_ACQ (STIS.ta.618243)	(5) HR-4796A	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618243*								
2	HR4796_BAR5_CENTER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4796 is V = 5.78 so saturation in 2.09s.* *So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HR4796_BAR5_PLUS DITHER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel above the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4796 is V = 5.78 so saturation in 2.09s.* *So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HR4796_BAR5_PLUS DITHER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel below the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HR 4796 is V = 5.78 so saturation in 2.09s.
So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HR4796_LONG_1	(5) HR-4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4		1123.2 Secs (1123.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4796 is V =5.78 so saturation in 7.80s.
So 90% full well in appx 7.02s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

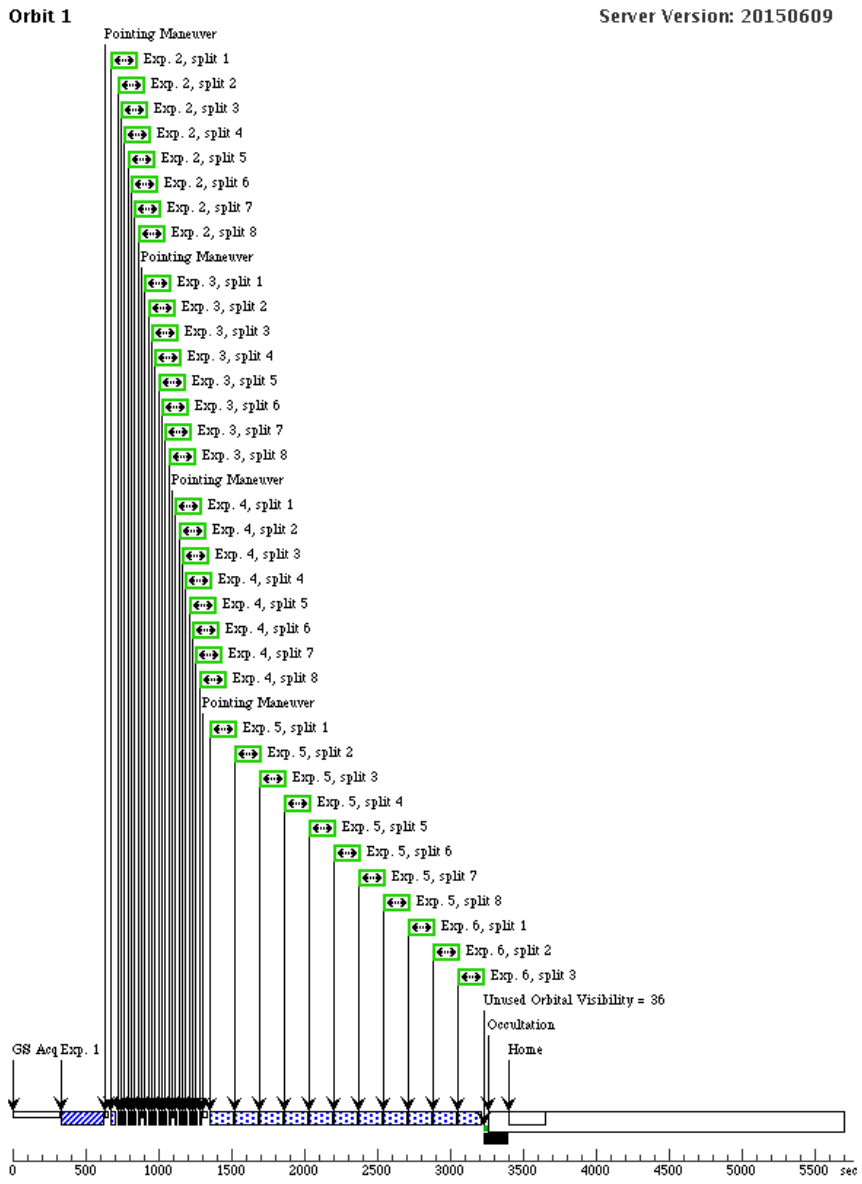
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HR4796_LONG_2	(5) HR-4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4		421.2 Secs (421.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4796 is V =5.78 so saturation in 7.80s.
So 90% full well in appx 7.02s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V45-HR4796 (45), completed Thu Aug 06 01:07:43 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT 90.464D TO 90.464 D

Comments: HR 4796 (V=5.78, B-V = +0.01).
Second of two sets of visits, each containing three visits of HR 4796 at different relative orientations with one PSF calibration observation interleaved.
This is the first HR 4796 visit in the second set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.
Relative Timing: Schedule in orbit immediately before Visit 46.

Diagnostics

(V45-HR4796 (45)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V45-HR4796 (45)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V45-HR4796 (45)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	HR-4796A	RA: 12 36 1.0310 (189.0042958d) Dec: -39 52 10.23 (-39.86951d) Equinox: J2000	Proper Motion RA: -56.66 mas/yr Proper Motion Dec: -24.99 mas/yr Parallax: 0.01374" Epoch of Position: 2000.0	V=5.783 B-V =+0.08, Spectral Type: A0V. N.B.	Reference Frame: ICRS

Comments: Using BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HR4796_ACQ (STIS.ta.618243)	(5) HR-4796A	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618243*								
2	HR4796_BAR5_CENTER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4796 is V = 5.78 so saturation in 2.09s.* *So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HR4796_BAR5_PLUS DITHER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel above the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4796 is V = 5.78 so saturation in 2.09s.* *So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HR4796_BAR5_PLUS DITHER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel below the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HR 4796 is V = 5.78 so saturation in 2.09s.
So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HR4796_LONG_1	(5) HR-4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4		1123.2 Secs (1123.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4796 is V =5.78 so saturation in 7.80s.
So 90% full well in appx 7.02s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

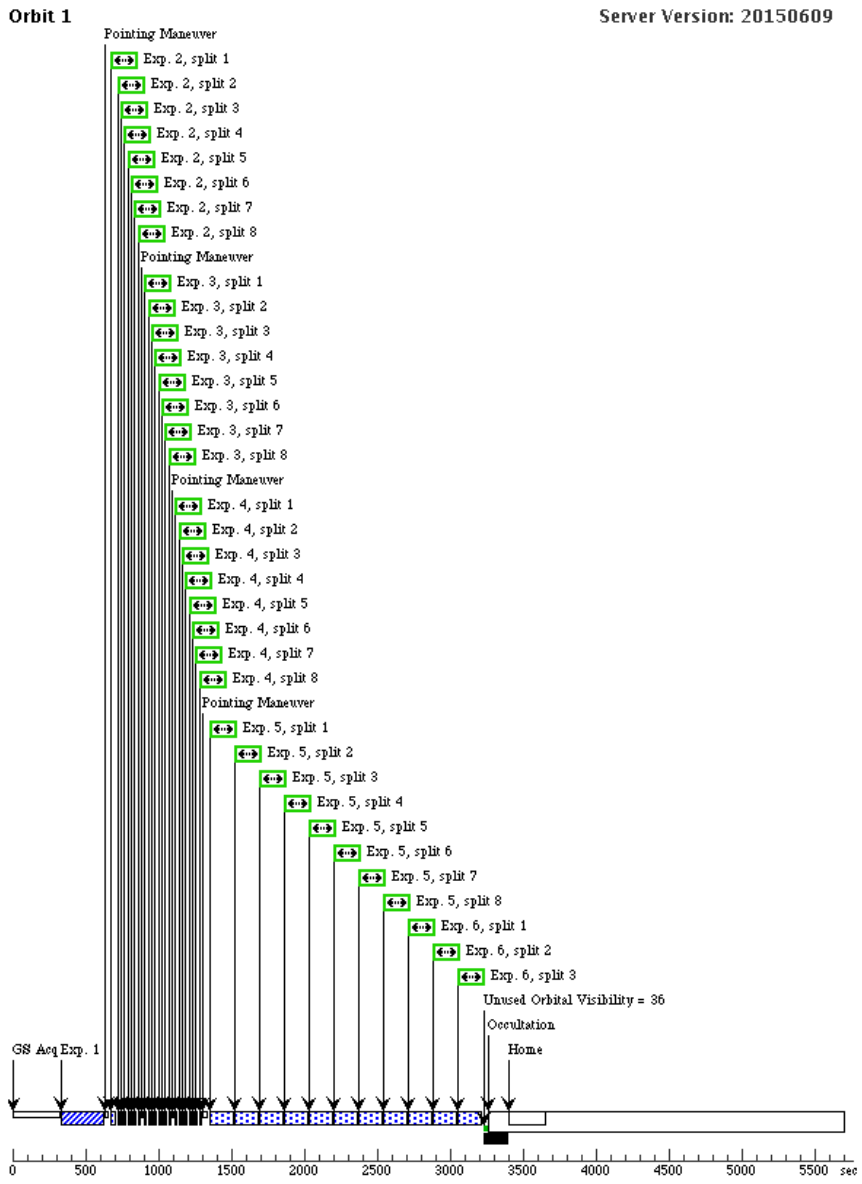
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HR4796_LONG_2	(5) HR-4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4		421.2 Secs (421.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4796 is V =5.78 so saturation in 7.80s.
So 90% full well in appx 7.02s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V46-HR4796 (46), completed Thu Aug 06 01:07:43 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT 112.964D TO 112.964 D; AFTER 45 BY .5 Orbits TO 1.5 Orbits

Comments: HR 4796 (V=5.78, B-V = +0.01).
Second of two sets of visits, each containing three visits of HR 4796 at different relative orientations with one PSF calibration observation interleaved.
This is the second HR 4796 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.
Relative Timing: This visit (46) should immediately follow visit 45 and immediately precede visit 47. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V46-HR4796 (46)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V46-HR4796 (46)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V46-HR4796 (46)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V46-HR4796 (46)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	HR-4796A	RA: 12 36 1.0310 (189.0042958d)	Proper Motion RA: -56.66 mas/yr	V=5.783	Reference Frame: ICRS
		Dec: -39 52 10.23 (-39.86951d)	Proper Motion Dec: -24.99 mas/yr	B-V =+0.08,	
		Equinox: J2000	Parallax: 0.01374"	Spectral Type: A0V. N.B.	
			Epoch of Position: 2000.0		

Comments: Using BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HR4796_ACQ (STIS.ta.618243)	(5) HR-4796A	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618243*								
2	HR4796_BAR5_CENTER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4796 is V = 5.78 so saturation in 2.09s.* *So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HR4796_BAR5_PLUS DITHER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel above the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4796 is V = 5.78 so saturation in 2.09s.* *So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HR4796_BAR5_PLUS DITHER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel below the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HR 4796 is V = 5.78 so saturation in 2.09s.
So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HR4796_LONG_1	(5) HR-4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4		1123.2 Secs (1123.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4796 is V =5.78 so saturation in 7.80s.
So 90% full well in appx 7.02s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

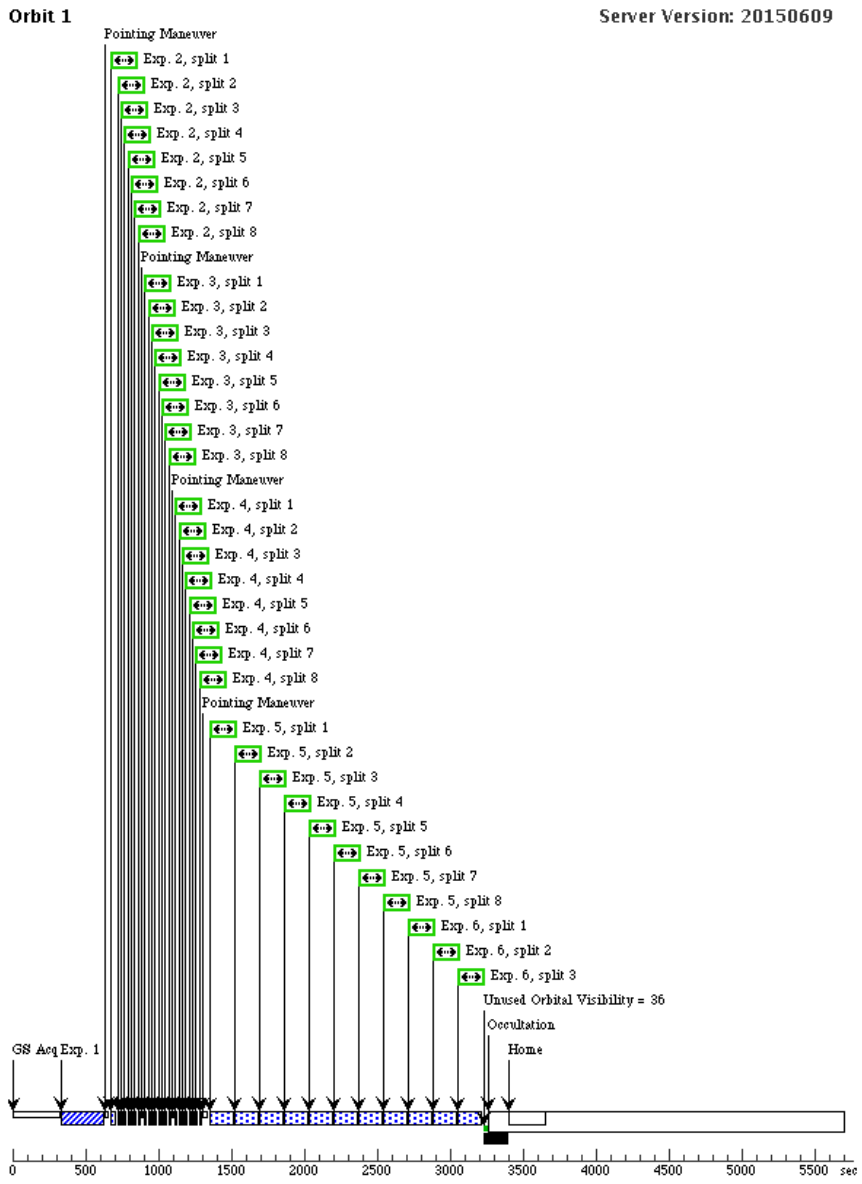
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HR4796_LONG_2	(5) HR-4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4		421.2 Secs (421.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4796 is V =5.78 so saturation in 7.80s.
So 90% full well in appx 7.02s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V47-PSF05-HR4735 (47), completed Thu Aug 06 01:07:43 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 46 BY .5 Orbits TO 1.5 Orbits

Comments: PSF05 (HR 4735). PSF calibration target for HD HD 4786. V = 5.57. B - V = +0.01. Spex. B9V.

TThis is the PSF star calibrator for the flanking visits (45-48). We levy no orientation constraints on this visit (47). However, we choose this target very close in the sky to its paired science target. So as Visits 46 and 47 must be scheduled in sequential contiguous orbits, if scheduled at nominal roll (as we expect also Visit 06 will be) then we expect absolute orientations of Visits 46 and 47 to be very similar (within a few degrees). This is important so we maintain similar Sun and Beta angles for the science target and its PSF calibrator,

Relative Timing: This visit (47) should immediately follow visit 46 and immediately precede visit 48. I.e., they should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V47-PSF05-HR4735 (47)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V47-PSF05-HR4735 (47)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V47-PSF05-HR4735 (47)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
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(V47-PSF05-HR4735 (47)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	PSF05-HR4735-HR4796A	RA: 12 26 51.6900 (186.7153750d) Dec: -32 49 48.44 (-32.83012d) Equinox: J2000	Proper Motion RA: -6.09 mas/yr Proper Motion Dec: -30.49 mas/yr Parallax: 0.00643" Epoch of Position: 2000.0	V=5.565 B-V = -0.01. delta(B-V) = 0.00. Spectral Type B9V. Slew to mat ched target 87.3 deg	Reference Frame: ICRS

Comments: Using BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HR4735_ACQ (STIS.ta.618247)	(10) PSF05-HR4735-HR4796A	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: V = 5.57, sp = B9V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618247*								
2	HR4735_BAR5_CENTER	(10) PSF05-HR4735-HR4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		12.2 Secs (12.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4735 is V = 5.57 so saturation in 1.69Ss.* *So 90% full well in appx 1.52s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HR4735_BAR5_PLUS DITHER	(10) PSF05-HR4735-HR4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		12.2 Secs (12.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on 1/4 PIXEL ABOVE the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4735 is V = 5.57 so saturation in 1.69Ss.* *So 90% full well in appx 1.52s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HR4735_BAR5_MINUSDITHER	(10) PSF05-HR4735-HR4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	12.2 Secs (12.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on 1/4 pixel below the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appropriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HR 4735 is V = 5.57 so saturation in 1.69Ss.
So 90% full well in appx 1.52s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HR4735_LONG_1	(10) PSF05-HR4735-HR4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4		924.8 Secs (924.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4725 is V =5.57 so saturation in 6.43s.
So 90% full well in appx 5.78s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

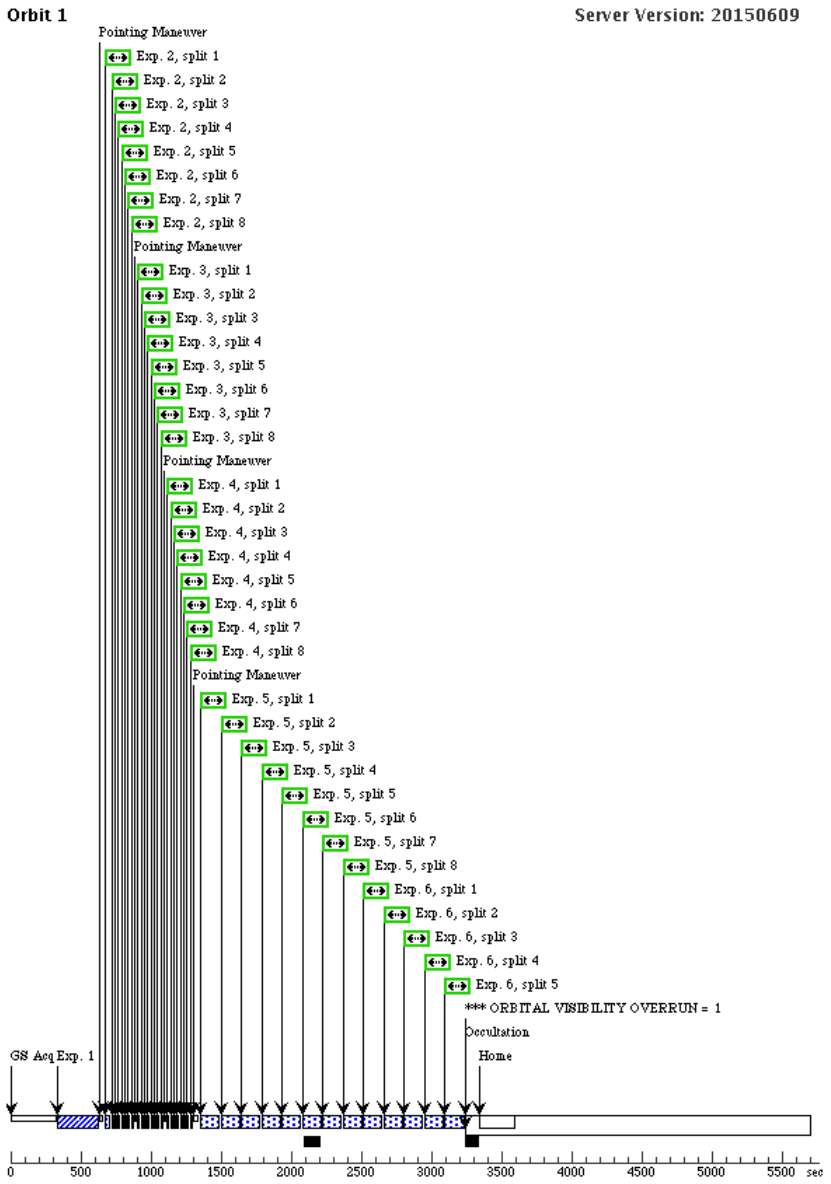
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HR4735_LONG_2	(10) PSF05-HR4735-HR4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; GAIN=4; CR-SPLIT=5		578.0 Secs (578 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4725 is V =5.57 so saturation in 6.43s.
So 90% full well in appx 5.78s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V48-HR4796 (48), completed Thu Aug 06 01:07:44 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT 135.464D TO 135.464 D; AFTER 47 BY 0.5 Orbits TO 1.5 Orbits

Comments: HR 4796 (V=5.78, B-V = +0.01).
FSecond of two sets of visits, each containing three visits of HR 4735 at different relative orientations with one PSF calibration observation interleaved.
This is the third HR 4735 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.
Relative Timing: This visit (48) should immediately follow Visit 47. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V48-HR4796 (48)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V48-HR4796 (48)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V48-HR4796 (48)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
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(V48-HR4796 (48)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V48-HR4796 (48)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V48-HR4796 (48)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V48-HR4796 (48)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	HR-4796A	RA: 12 36 1.0310 (189.0042958d) Dec: -39 52 10.23 (-39.86951d) Equinox: J2000	Proper Motion RA: -56.66 mas/yr Proper Motion Dec: -24.99 mas/yr Parallax: 0.01374" Epoch of Position: 2000.0	V=5.783 B-V =+0.08, Spectral Type: A0V. N.B.	Reference Frame: ICRS

Comments: Using BAR5

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HR4796_ACQ (STIS.ta.618243)	(5) HR-4796A	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		.1 Secs (0.1 Secs) *[==>]*	***[1]***
	Comments: V = 5.78, sp = A0V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618243*								
2	HR4796_BAR5_CENTER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48579,-7.42153		14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target on the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4796 is V = 5.78 so saturation in 2.09s.* *So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								
3	HR4796_BAR5_PLUS DITHER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.48827,-7.40908		14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923. *This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel above the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).* *SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.* *HR 4796 is V = 5.78 so saturation in 2.09s.* *So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.*								

4	HR4796_BAR5_PLUS DITHER	(5) HR-4796A	STIS/CCD, ACCUM, BAR10	MIRROR	SIZEAXIS2=100; CR-SPLIT=8; GAIN=4; CENTERAXIS2=700	POS TARG 17.4833 1,-7.43398	14.8 Secs (14.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: NOTE TO PC/CS: Here we use the BAR5 occulter (Aperture) that we comissioned in GO program 12923.
*This aperture is not available in APT Phase 2, *AND* the SIAF locations of the aperture fiducial we determined in GO 12923 is yet to be populated in SIAF.dat and flowed down to the ground system. We therefore call out BAR10 and use POS TARGs to move the target to the desired positions behind the BAR5 occulter. He we attempt to place the target 1/4 pixel below the mid-line of BAR5. We then use a subarray readout of CENTYERAXIS2 = 700 appopriate for BAR5 with a SIZEAXIS2 = 137 (the same ass we use elsewhere for Wedge0.6A).*

*SCALABLE BENCHMARK: We expect full-well at r=0.15" with BAR10 from wings of stellar PSF in 1 second for V=5.0 (A0V) {**to be re-verified**}.*
HR 4796 is V = 5.78 so saturation in 2.09s.
So 90% full well in appx 1.85s. Use this for the BAR5 exposures, repeated (8x) with multiple CR Splits.

5	HR4796_LONG_1	(5) HR-4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4		1123.2 Secs (1123.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4796 is V =5.78 so saturation in 7.80s.
So 90% full well in appx 7.02s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

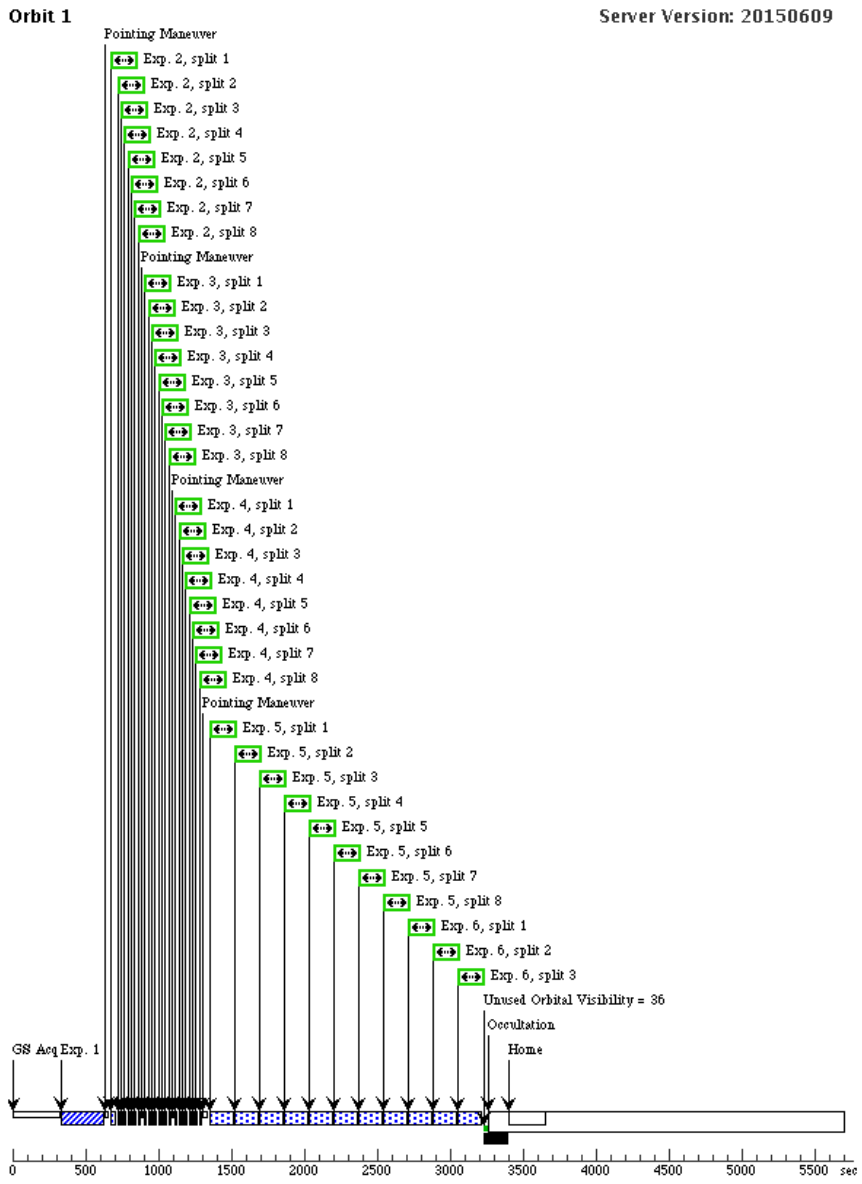
SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

6	HR4796_LONG_2	(5) HR-4796A	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4		421.2 Secs (421.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*		***[1]***

Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V).
HR 4796 is V =5.78 so saturation in 7.80s.
So 90% full well in appx 7.02s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.
For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of
visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V51-HD202917 (51), implementation Thu Aug 06 01:07:44 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT 15D TO 30D FROM 52

Comments: HD 202917 (V=8.67, B-V = +0.65).
First of two sets of visits, each containing three visits of HD 202917 at different relative orientations with one PSF calibration observation interleaved.
This is the first HD 202917 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (51) at 30 deg from Visit 52, with the absolute orientation of Visit 52 unconstrained.
We allow a relative orientation tolerence from 15 deg to 30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to 30 deg from Visit 52 as possible.

Relative Timing: This visit (51) should immediately preceed visit (52). I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V51-HD202917 (51)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V51-HD202917 (51)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V51-HD202917 (51)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V51-HD202917 (51)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V51-HD202917 (51)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V51-HD202917 (51)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V51-HD202917 (51)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V51-HD202917 (51)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

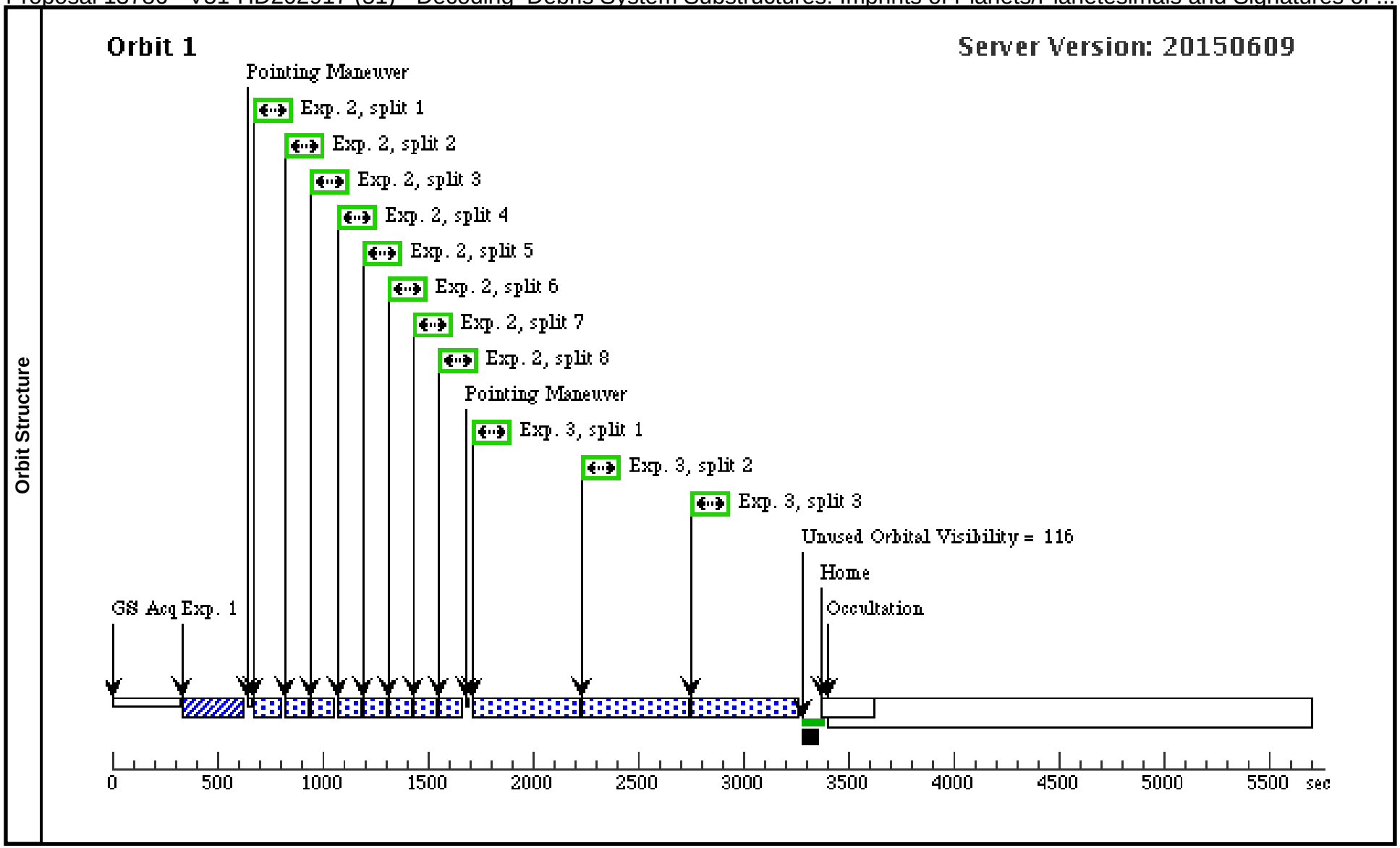
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD-202917	RA: 21 20 49.9551 (320.2081462d)	Proper Motion RA: 28.77 mas/yr	V=8.67	Reference Frame: ICRS
		Dec: -53 02 3.14 (-53.03421d)	Proper Motion Dec: -94.19 mas/yr	B-V =+0.65,	
		Equinox: J2000	Parallax: 0.02327"	Spectral Type: G7V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202917_ ACQ (STIS.ta.618240)	(3) HD-202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		1.1 Secs (1.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 8,67, sp = G7V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618240*								
2	HD202917_ SHORTS_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			800 Secs (800 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202917_ LONG_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4			1479 Secs (1479 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								


Orbit 1
Server Version: 20150609
Orbit Structure
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Exp. 2, split 3
Exp. 2, split 4
Exp. 2, split 5
Exp. 2, split 6
Exp. 2, split 7
Exp. 2, split 8
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
Unused Orbital Visibility = 116
Home
Occultation
GS Acq Exp. 1
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13786, V52-HD202917 (52), implementation Thu Aug 06 01:07:44 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 51 BY .5 Orbits TO 1.5 Orbits

Comments: HD 202917 (V=8.67, B-V = +0.65).
First of two sets of visits, each containing three visits of HD 202917 at different relative orientations with one PSF calibration observation interleaved.
This is the second HD 202917 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: There are no orientation constraints on this visit (52).
This visit at nominal roll as scheduled by STScI.
Visits 51, 54, 55, 56 and 58 carry relative orientation constraints w.r.t. this visit.

Relative Timing: This visit (52) should immediately follow Visit 51 and immediately preceed Visit 53 in back-to-back orbits.

Diagnostics

(V52-HD202917 (52)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V52-HD202917 (52)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V52-HD202917 (52)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V52-HD202917 (52)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V52-HD202917 (52)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V52-HD202917 (52)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V52-HD202917 (52)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V52-HD202917 (52)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

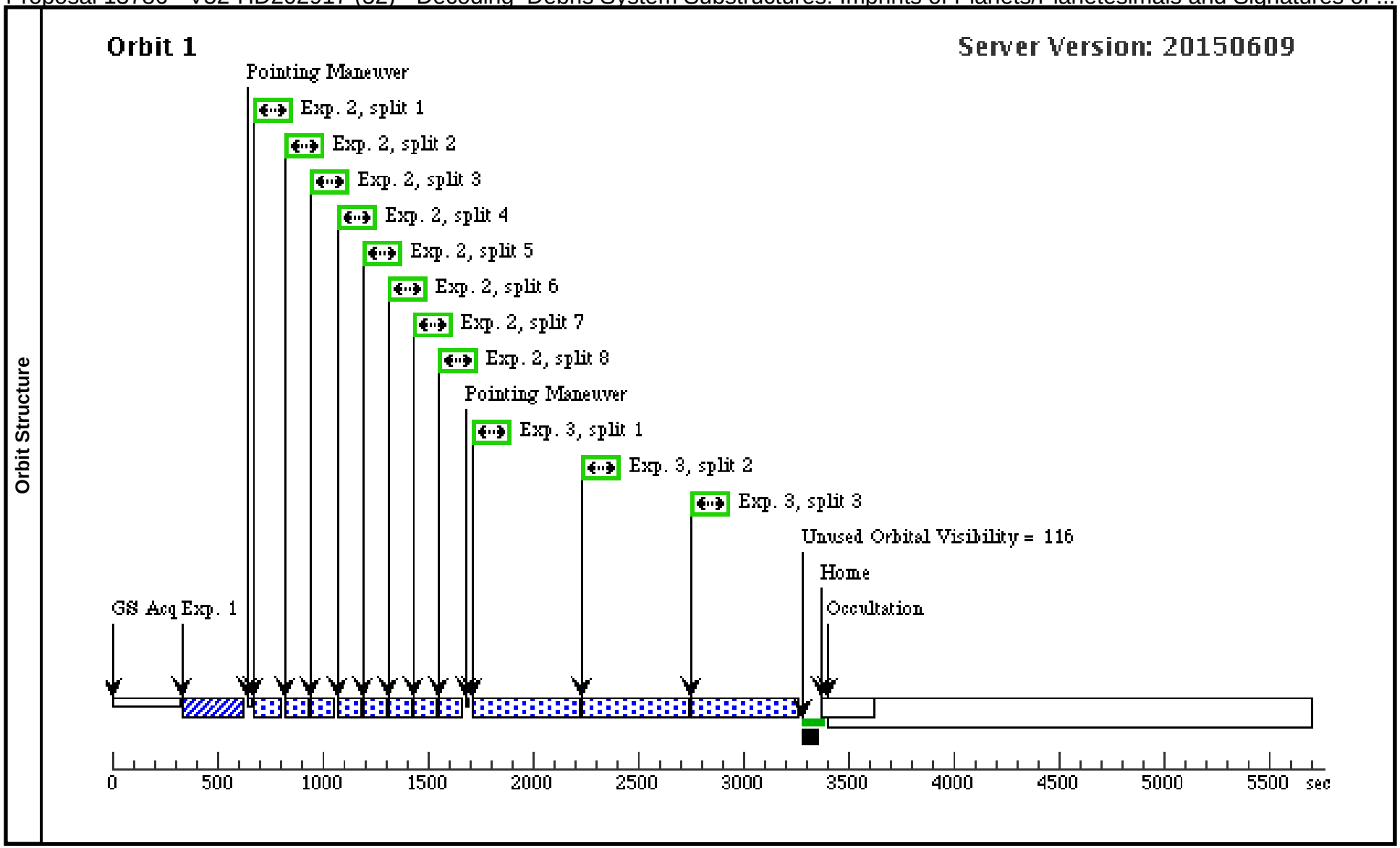
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD-202917	RA: 21 20 49.9551 (320.2081462d)	Proper Motion RA: 28.77 mas/yr	V=8.67	Reference Frame: ICRS
		Dec: -53 02 3.14 (-53.03421d)	Proper Motion Dec: -94.19 mas/yr	B-V =+0.65,	
		Equinox: J2000	Parallax: 0.02327"	Spectral Type: G7V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202917_ ACQ (STIS.ta.618240)	(3) HD-202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		1.1 Secs (1.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 8,67, sp = G7V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618240*								
2	HD202917_ SHORTS_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			800 Secs (800 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202917_ LONG_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4			1479 Secs (1479 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								


Orbit 1
Server Version: 20150609
Orbit Structure
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Exp. 2, split 3
Exp. 2, split 4
Exp. 2, split 5
Exp. 2, split 6
Exp. 2, split 7
Exp. 2, split 8
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
Unused Orbital Visibility = 116
Home
Occultation
GS Acq Exp. 1
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13786, V53-PSF03-LTT8893 (53), implementation Thu Aug 06 01:07:44 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 52 BY 0.5 Orbits TO 1.5 Orbits

Comments: PSF03 (LTT 8893). PSF calibration target for HD 202917. V = 7.22. B - V = +0.66. Sp G3V

This is the PSF star calibrator for the flanking visits (51-54). We levy no orientation constraints on this visit (53). However, we choose this target very close in the sky to its paired science target. So as Visits 52 and 53 must be scheduled in sequential contiguous orbits, if scheduled at nominal roll (as we expect also Visit 52 will be) then we expect absolute orientations of Visits 52 and 53 to be very similar (within a few degrees). This is important so we maintain similar Sun and Beta angles for the science target and its PSF calibrator,

Relative Timing: This visit (53) should immediately follow visit 52 and immediately precede visit 54. I.e., they should be executed sequentially in "back-to-back" orbits.

NOTE: W'ith Visit 53 resubmission on 04AUG2015, 171 seconds are left unused at the back end of this visibility window to assure schedualability into the mid-October timeframe to enable the relative rolls found acceptable. 152 second minimum unused was required per Beth P. email 04AUG2015.

Diagnostics

(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V53-PSF03-LTT8893 (53)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	PSF03-LTT8893-HD202917	RA: 22 10 49.6679 (332.7069496d) Dec: -55 27 25.68 (-55.45713d) Equinox: J2000	Proper Motion RA: 194.06 mas/yr Proper Motion Dec: -136.74 mas/yr Parallax: 0.01901" Epoch of Position: 2000.0	V=7.22 B-V = +0.66. delta(B-V) = +0.0 1. Spectral Type G3V. Slew to matched target 7.7 deg	Reference Frame: ICRS

Exposures

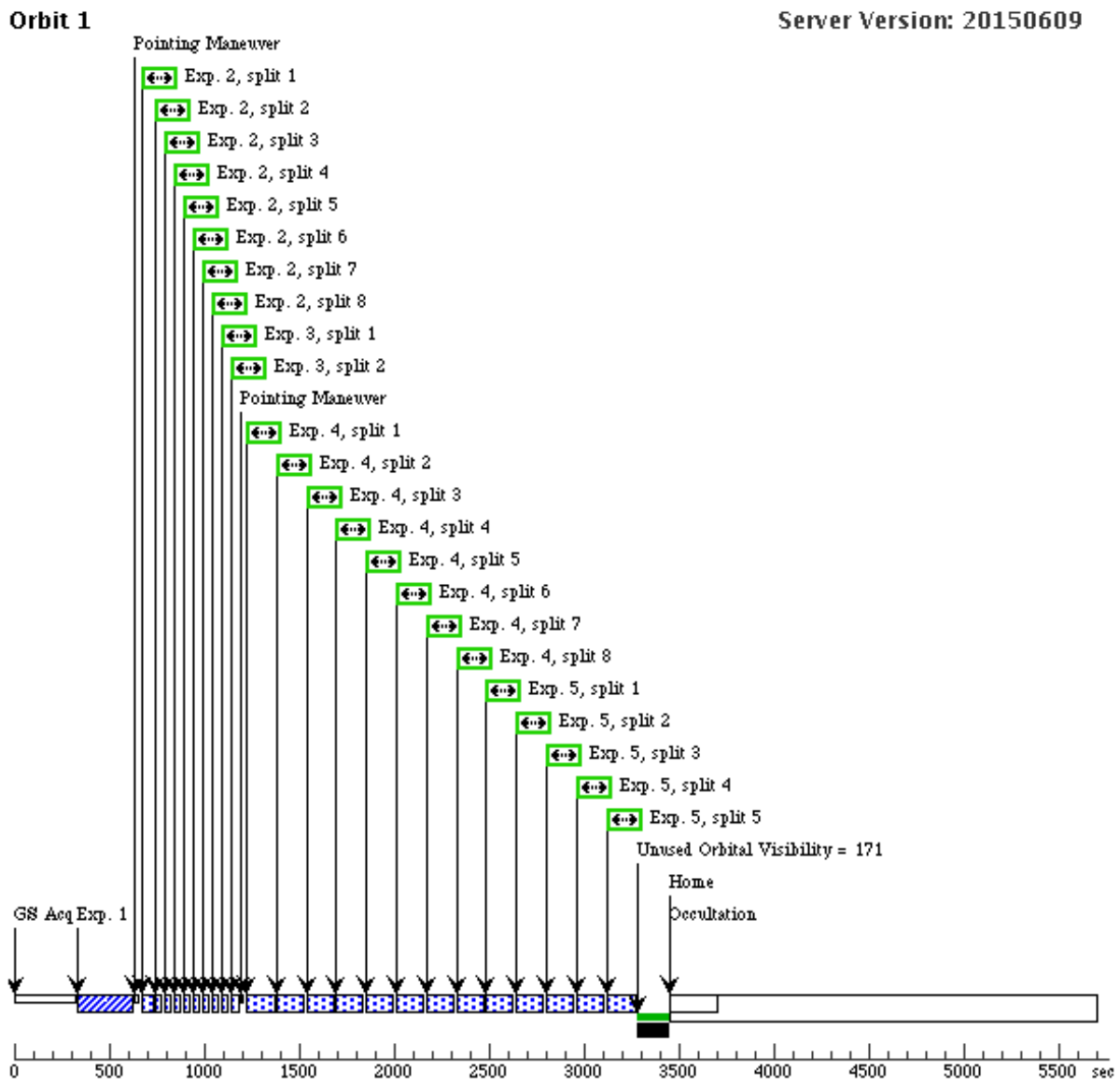
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PSF03-LTT889_ACQ (STIS.ta.617096)	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.3 Secs (0.3 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 6.22, sp = G3V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618251*								
2	PSF03-LTT889_SHORT_1	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			211.36 Secs (211.36 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *LTT 8893 is V = 7.22, so saturation in 29.38s.* *So 90% full well in appx 26.43s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								
3	PSF03-LTT889_SHORT_2	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=2; GAIN=4			52.86 Secs (52.86 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *LTT 8893 is V = 7.22, so saturation in 29.38s.* *So 90% full well in appx 26.43s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								
4	PSF03-LTT889_LONG_1	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=8; GAIN=4			1032 Secs (1032 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: NOTE ON EXPOSURE TIME: Was revised 04AUG2015 based upon prior executed Visit 57 observations to 129s per individual exposure (before CR splitting) to avoid saturation at Wedge 1.0 beyond the A wedge edge. *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								

	5	PSF03-LTT889_LONG_2	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACCUM, WEDGEA1.0 MIRROR	SIZEAXIS2=427; CR-SPLIT=5; GAIN=4	645 Secs (645 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]*	***[1]***

Comments: NOTE ON EXPOSURE TIME: Was revised 04AUG2015 based upon prior executed Visit 57 observations to 129s per individual exposure (before CR splitting) to avoid saturation at Wedge 1.0 beyond the A wedge edge.

SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")
For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target
to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the
Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.

Orbit Structure



Visit

Proposal 13786, V54-HD202917 (54), implementation Thu Aug 06 01:07:44 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -30D TO -15D FROM 52; AFTER 53 BY .5 Orbits TO 1.5 Orbits

Comments: HD 202917 (V=8.67, B-V = +0.65).
First of two sets of visits, each containing three visits of HD 202917 at different relative orientations with one PSF calibration observation interleaved.
This is the third HD 202917 visit in the first set.
The four visits within each set must be executed sequentally in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (54) at -30 deg from Visit 52, with the absolute orientation of Visit 52 unconstrained.
We allow a relative orientation tolerence from -15 deg to -30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -30 deg from Visit 52 as possible.

Relative Timing: This visit (54) should immediately follow Visit 53. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V54-HD202917 (54)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V54-HD202917 (54)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V54-HD202917 (54)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V54-HD202917 (54)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V54-HD202917 (54)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V54-HD202917 (54)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V54-HD202917 (54)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V54-HD202917 (54)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

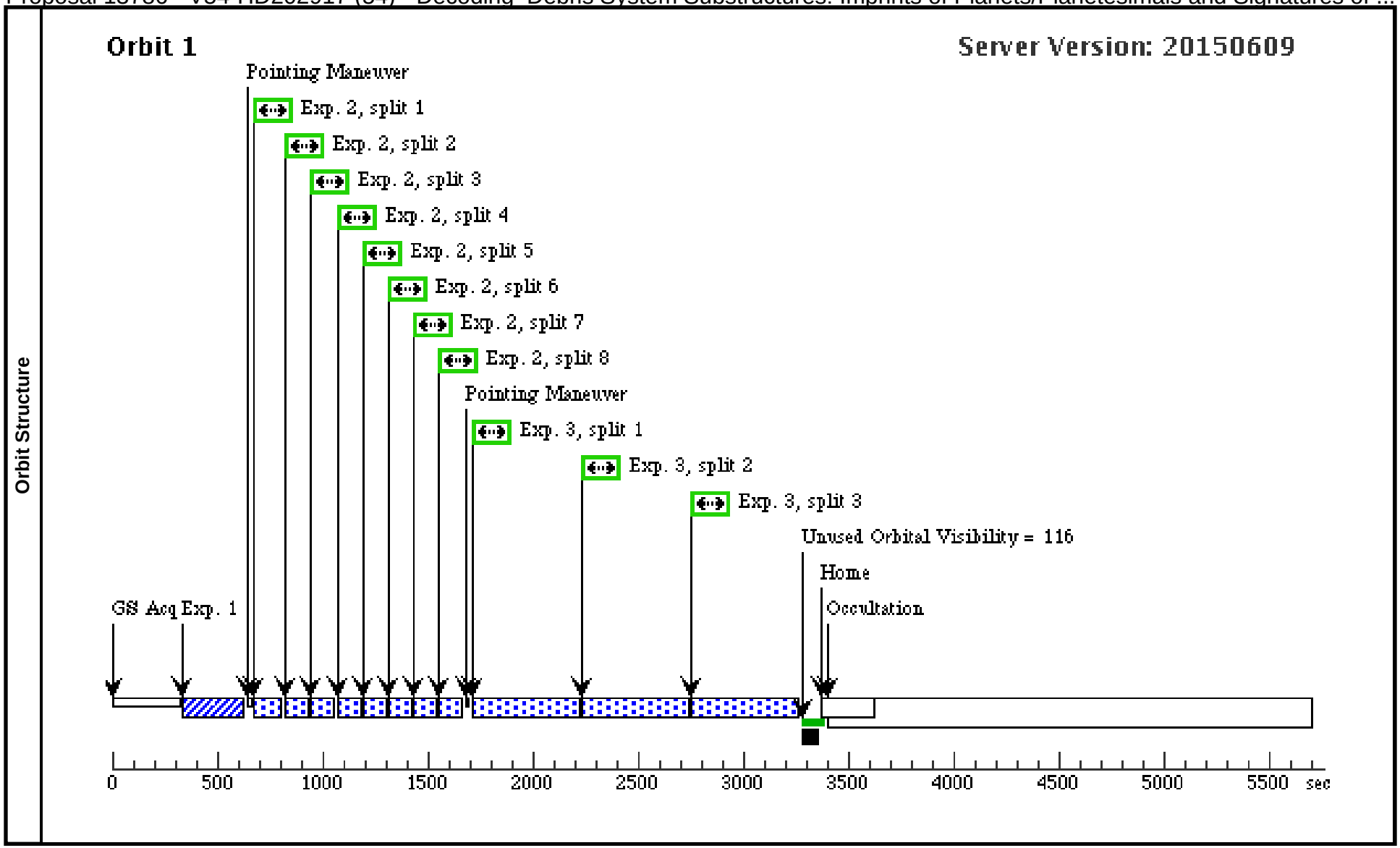
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD-202917	RA: 21 20 49.9551 (320.2081462d)	Proper Motion RA: 28.77 mas/yr	V=8.67	Reference Frame: ICRS
		Dec: -53 02 3.14 (-53.03421d)	Proper Motion Dec: -94.19 mas/yr	B-V =+0.65,	
		Equinox: J2000	Parallax: 0.02327"	Spectral Type: G7V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202917_ ACQ (STIS.ta.618240)	(3) HD-202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		1.1 Secs (1.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 8,67, sp = G7V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618240*								
2	HD202917_ SHORTS_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			800 Secs (800 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202917_ LONG_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4			1479 Secs (1479 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								


Orbit 1
Server Version: 20150609
Orbit Structure
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Exp. 2, split 3
Exp. 2, split 4
Exp. 2, split 5
Exp. 2, split 6
Exp. 2, split 7
Exp. 2, split 8
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
Unused Orbital Visibility = 116
Home
Occultation
GS Acq Exp. 1
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13786, V55-HD202917 (55), completed Thu Aug 06 01:07:44 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -105D TO -75D FROM 51

Comments: HD 202917 (V=8.67, B-V = +0.65).
Second of two sets of visits, each containing three visits of HD 202917 at different relative orientations with one PSF calibration observation interleaved.
This is the first HD 202917 visit in the second set.
The four visits within each set must be executed sequentially in contiguous orbits interrupted only for Earth occultation.

Relative Orientation: We wish to schedule this visit (55) at EITHER -90 deg OR +90 deg from Visit 51.
Either (+ or -) is equally acceptable, but there is no way to specificy this via APT 22.2.
Here we specify a range of relative orientations of -75 deg to -105 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -90 deg from Visit 51 as possible.
Note to PC: You may freely change the parity of the relative orientation to positive if needed for guise star selection and scheduling.
Relative Timing: Schedule in orbit immediately before Visit 56.

Diagnostics

(V55-HD202917 (55)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V55-HD202917 (55)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V55-HD202917 (55)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V55-HD202917 (55)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V55-HD202917 (55)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V55-HD202917 (55)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V55-HD202917 (55)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V55-HD202917 (55)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V55-HD202917 (55)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

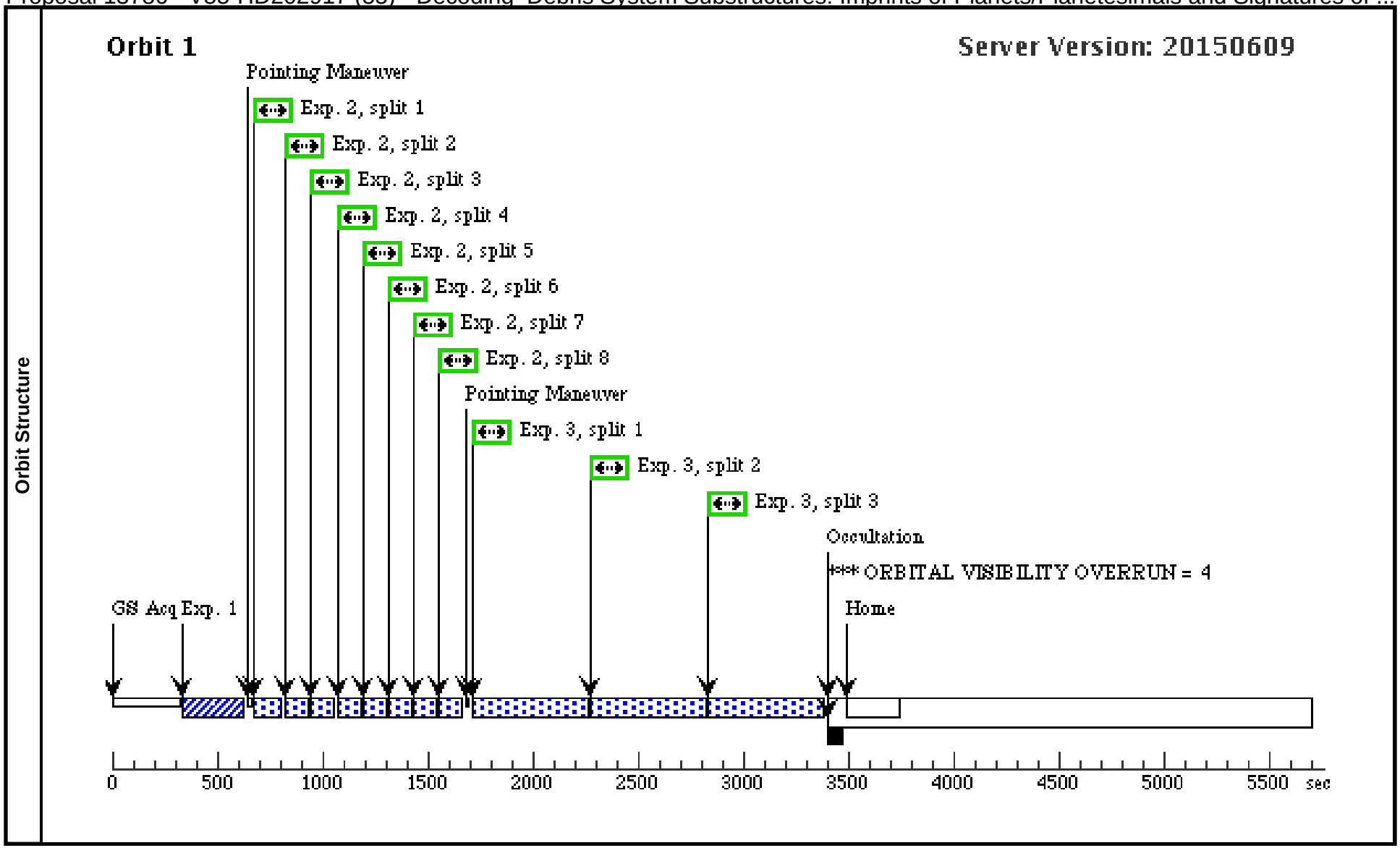
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD-202917	RA: 21 20 49.9551 (320.2081462d)	Proper Motion RA: 28.77 mas/yr	V=8.67	Reference Frame: ICRS
		Dec: -53 02 3.14 (-53.03421d)	Proper Motion Dec: -94.19 mas/yr	B-V =+0.65,	
		Equinox: J2000	Parallax: 0.02327"	Spectral Type: G7V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202917_ ACQ (STIS.ta.618240)	(3) HD-202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		1.1 Secs (1.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 8,67, sp = G7V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618240*								
2	HD202917_ SHORTS_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			800 Secs (800 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202917_ LONG_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4			1599 Secs (1599 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								


Orbit 1
Server Version: 20150609
Orbit Structure
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Exp. 2, split 3
Exp. 2, split 4
Exp. 2, split 5
Exp. 2, split 6
Exp. 2, split 7
Exp. 2, split 8
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
Occultation
*** ORBITAL VISIBILITY OVERRUN = 4
GS Acq Exp. 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13786, V56-HD202917 (56), completed Thu Aug 06 01:07:44 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -30D TO -15D FROM 55; AFTER 55 BY .5 Orbits TO 1.5 Orbits

Comments: HD 202917 (V=8.67, B-V = +0.65).
Second of two sets of visits, each containing three visits of HD 202917 at different relative orientations with one PSF calibration observation interleaved.
This is the second HD 202917 visit in the first set.
The four visits within each set must be executed sequentially in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (56) at -30 deg from Visit 55.
We allow a relative orientation tolerence from -15 deg to -30 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -30 deg from Visit 55 as possible.

Relative Timing: This visit (56) should immediately follow visit 55 and immediately precede visit 57. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V56-HD202917 (56)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V56-HD202917 (56)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V56-HD202917 (56)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V56-HD202917 (56)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V56-HD202917 (56)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V56-HD202917 (56)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V56-HD202917 (56)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V56-HD202917 (56)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V56-HD202917 (56)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

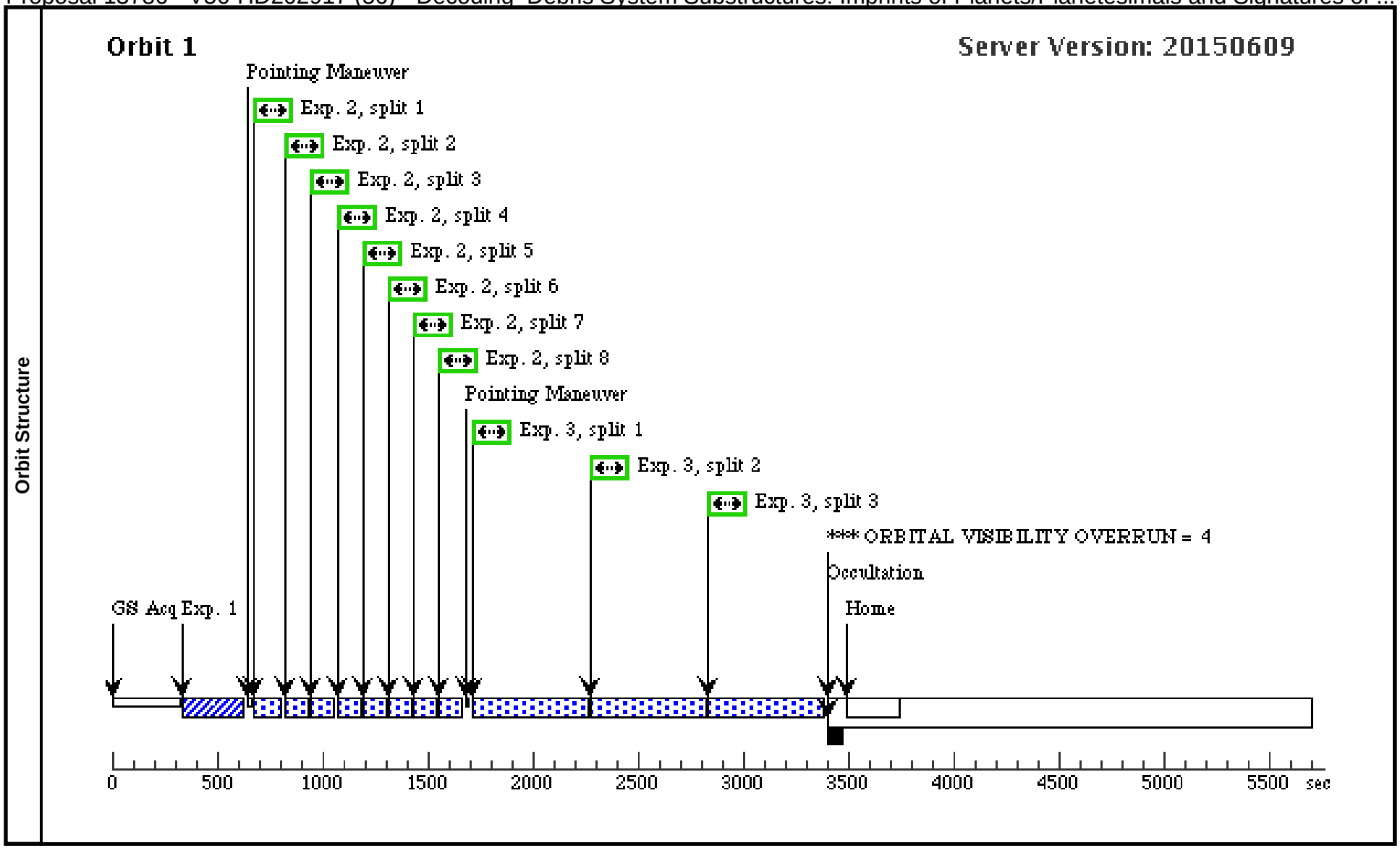
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD-202917	RA: 21 20 49.9551 (320.2081462d)	Proper Motion RA: 28.77 mas/yr	V=8.67	Reference Frame: ICRS
		Dec: -53 02 3.14 (-53.03421d)	Proper Motion Dec: -94.19 mas/yr	B-V =+0.65,	
		Equinox: J2000	Parallax: 0.02327"	Spectral Type: G7V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202917_ ACQ (STIS.ta.618240)	(3) HD-202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		1.1 Secs (1.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 8,67, sp = G7V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618240*								
2	HD202917_ SHORTS_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			800 Secs (800 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202917_ LONG_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4			1599 Secs (1599 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								


Orbit 1
Server Version: 20150609
Orbit Structure
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Exp. 2, split 3
Exp. 2, split 4
Exp. 2, split 5
Exp. 2, split 6
Exp. 2, split 7
Exp. 2, split 8
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
*** ORBITAL VISIBILITY OVERRUN = 4
Occultation
GS Acq Exp. 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13786, V57-PSF03-LTT8893 (57), completed Thu Aug 06 01:07:44 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; AFTER 56 BY 0.5 Orbits TO 1.5 Orbits

Comments: PSF03 (LTT 8893). PSF calibration target for HD 202917. V = 7.22. B - V = +0.66. Sp G3V

This is the PSF star calibrator for the flanking visits (55-58). We levy no orientation constraints on this visit (57). However, we choose this target very close in the sky to its paired science target. So as Visits 56 and 57 must be scheduled in sequential contiguous orbits, if scheduled at nominal roll (as we expect also Visit 56 will be) then we expect absolute orientations of Visits 56 and 57 to be very similar (within a few degrees). This is important so we maintain similar Sun and Beta angles for the science target and its PSF calibrator,

Relative Timing: This visit (57) should immediately follow visit 56 and immediately precede visit 58. I.e., they should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V57-PSF03-LTT8893 (57)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

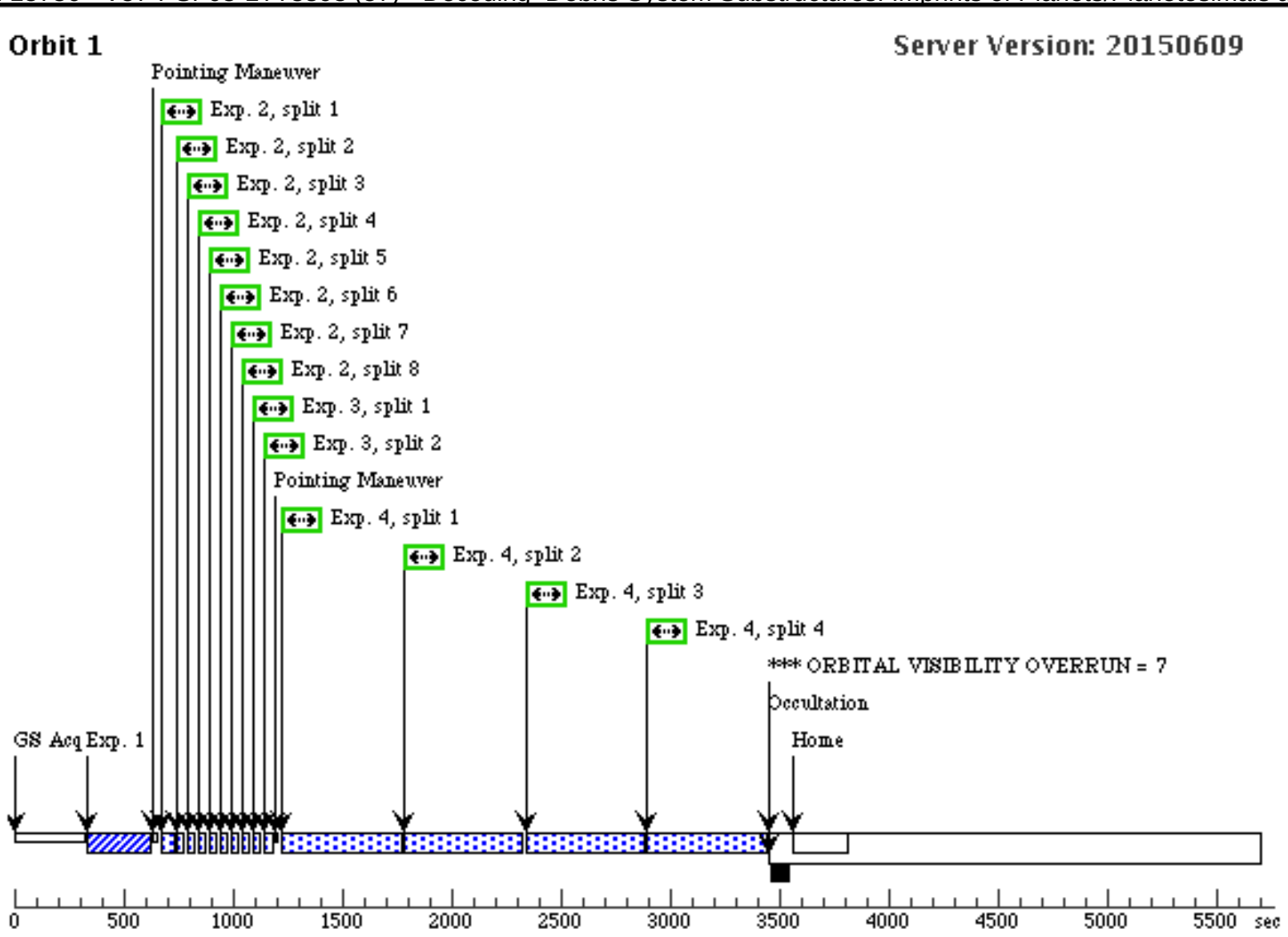
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	PSF03-LTT8893-HD202917	RA: 22 10 49.6679 (332.7069496d) Dec: -55 27 25.68 (-55.45713d) Equinox: J2000	Proper Motion RA: 194.06 mas/yr Proper Motion Dec: -136.74 mas/yr Parallax: 0.01901" Epoch of Position: 2000.0	V=7.22 B-V = +0.66. delta(B-V) = +0.0 1. Spectral Type G3V. Slew to matched target 7.7 deg	Reference Frame: ICRS

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PSF03-LTT889_ACQ (STIS.ta.617096)	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		0.3 Secs (0.3 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 6.22, sp = G3V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618251*								
2	PSF03-LTT889_SHORT_1	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			211.36 Secs (211.36 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *LTT 8893 is V = 7.22, so saturation in 29.38s.* *So 90% full well in appx 26.43s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								
3	PSF03-LTT889_SHORT_2	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=2; GAIN=4			52.86 Secs (52.86 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *LTT 8893 is V = 7.22, so saturation in 29.38s.* *So 90% full well in appx 26.43s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS2 = 137, appropriate for the WedgeA0.6 position.*								
4	PSF03-LTT889_LONG_1	(8) PSF03-LTT8893-HD202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=4; GAIN=4			2114.4 Secs (2114.4 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *LTT 8893 is V = 7.22, so saturation in 29.38s.* *So 90% full well in appx 26.43s.* *For long exposures at WedgeA1.0 go (at least (x20) deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								

Orbit Structure



Visit

Proposal 13786, V58-HD202917 (58), completed Thu Aug 06 01:07:44 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: PCS MODE FINE; GUID TOL 0.005"; GYRO MODE 3GOBAD; ORIENT -60D TO -41D FROM 55; AFTER 57 BY .5 Orbits TO 1.5 Orbits

Comments: HD 202917 (V=8.67, B-V = +0.65).
Second of two sets of visits, each containing three visits of HD 202917 at different relative orientations with one PSF calibration observation interleaved.
This is the third HD 202917 visit in the first set.
The four visits within each set must be executed sequentially in contiguous orbits interrupted only for Earth occultation.

Orientation: We wish to schedule this visit (58) at -60 deg from Visit 55.
We allow a relative orientation tolerence from -41 deg to -60 deg to assist in guide star selection and scheduling.
NOTE to PC: Schedule as close to -60 deg from Visit 55 as possible.

Relative Timing: This visit (58) should immediately follow Visit 57. I.e., They should be executed sequentially in "back-to-back" orbits.

Diagnostics

(V58-HD202917 (58)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V58-HD202917 (58)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V58-HD202917 (58)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V58-HD202917 (58)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(V58-HD202917 (58)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V58-HD202917 (58)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V58-HD202917 (58)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V58-HD202917 (58)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(V58-HD202917 (58)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

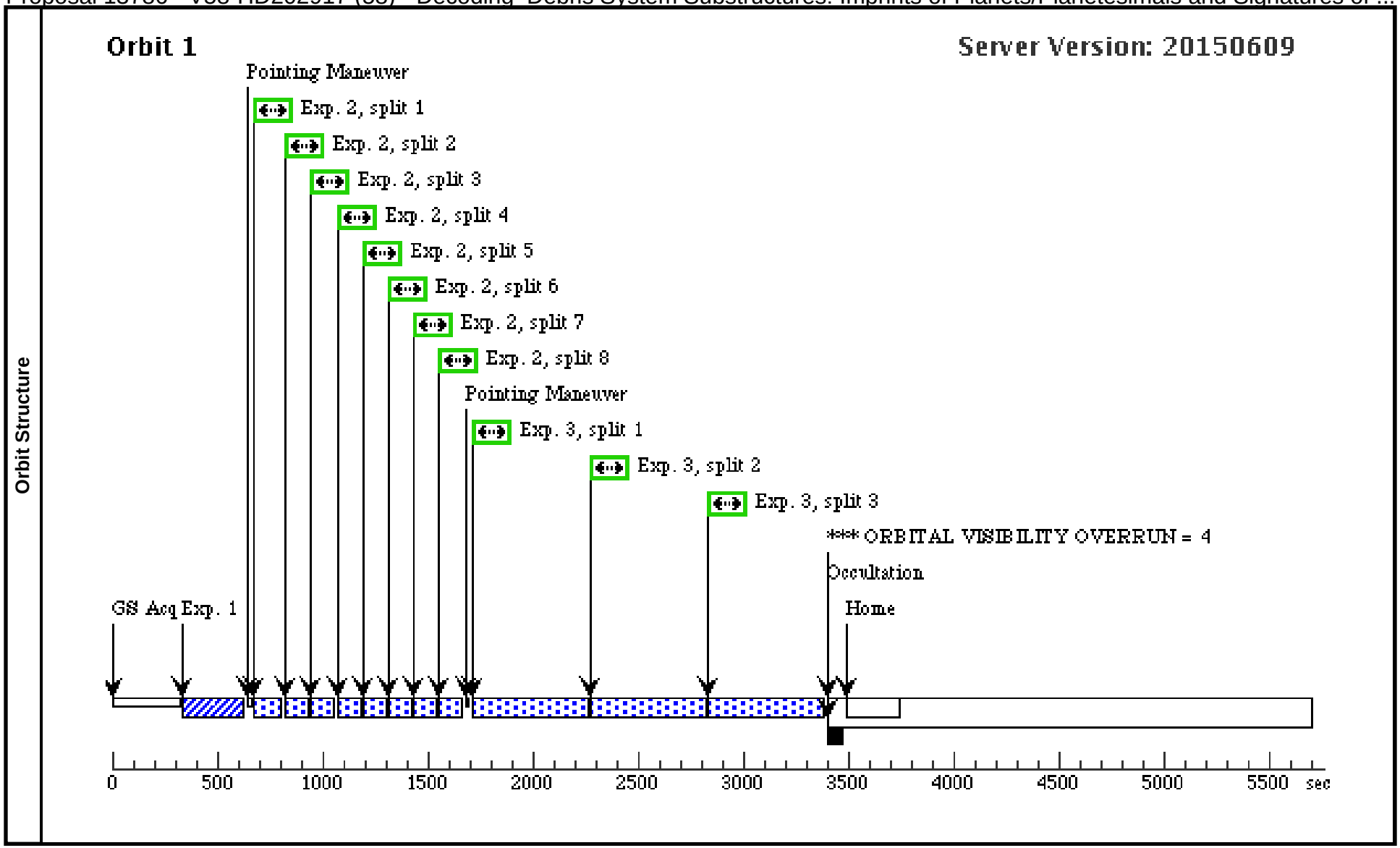
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD-202917	RA: 21 20 49.9551 (320.2081462d)	Proper Motion RA: 28.77 mas/yr	V=8.67	Reference Frame: ICRS
		Dec: -53 02 3.14 (-53.03421d)	Proper Motion Dec: -94.19 mas/yr	B-V =+0.65,	
		Equinox: J2000	Parallax: 0.02327"	Spectral Type: G7V	
			Epoch of Position: 2000.0		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HD202917_ ACQ (STIS.ta.618240)	(3) HD-202917	STIS/CCD, ACQ, F25ND3	MIRROR		GS ACQ SCENARIO BASE1BN3		1.1 Secs (1.1 Secs) *[==>]*	***[1]***
	Comments: SNR = 100, V = 8,67, sp = G7V, Exptime rounded to nearest 0.1 second *ETC Request ID: STIS.ta.618240*								
2	HD202917_ SHORTS_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA0.6	MIRROR	SIZEAXIS2=137; CR-SPLIT=8; GAIN=4			800 Secs (800 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "short" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 137, appropriate for the WedgeA0.6 position.*								
3	HD202917_ LONG_1	(3) HD-202917	STIS/CCD, ACCUM, WEDGEA1.0	MIRROR	SIZEAXIS2=427; CR-SPLIT=3; GAIN=4			1599 Secs (1599 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: SCALABLE BENCHMARK: We expect full-well at r=0.3" from wings of stellar PSF in 1 second for V=3.55 (A0V). *HD 202917 is V = 8.67 so saturation in 111.68s.* *So 90% full well in appx 100.52s. Use this for the "short" exposures, repeated (8x) with multiple CR Splits.* *For long exposures at WedgeA1.0 go (up to) 20x deeper in each that will fit into remainer of* *visibility period CR-SPLIT at least 3 times - and trim exposure time to fit in visibility window.* *SCALABLE PARAMETER FOR SUB-ARRAY Readout: SIZEAXIS2 = 20 is 1" in full extent (r = 0.5")* *For these "long" exposures we will image perpendicular to the wedge (symmetrically) centered on the target* *to the maximum extent permitted by the limits of the FOV (edge of the detector) on the "small" side of the* *Wedge A taper. Thus, for these short exposures we use SIZEAXIS12 = 427, appropriate for the WedgeA1.0 position.*								


Orbit 1
Server Version: 20150609
Orbit Structure
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Exp. 2, split 3
Exp. 2, split 4
Exp. 2, split 5
Exp. 2, split 6
Exp. 2, split 7
Exp. 2, split 8
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
*** ORBITAL VISIBILITY OVERRUN = 4
Occultation
GS Acq Exp. 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec