17810 - (Slit-)Stepping into the future with Haro11: Spatially Resolving UV-Properties and Devising the Ideal UV-IFU Benchmark Dataset

Cycle: 32, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	*Institution*
Dr. Bethan Lesley James (PI) (ESA Member) (Contact)	**Space Telescope Science Institute - ESA - JWST**
Dr. Danielle Berg (CoI)	University of Texas at Austin
Dr. Matilde Mingozzi (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST
Prof. Claudia Scarlata (CoI)	University of Minnesota - Twin Cities
Prof. Matthew James Hayes (CoI) (ESA Member)	Stockholm University
Dr. Alaina L. Henry (CoI) (AdminUSPI)	Space Telescope Science Institute
Prof. Dawn K. Erb (CoI)	University of Wisconsin - Milwaukee
Dr. Annalisa Citro (CoI)	University of Minnesota - Twin Cities
Dr. Peter M. Weilbacher (CoI) (ESA Member)	Leibniz-Institut für Astrophysik Potsdam (AIP)
Dr. Edmund Christian Herenz (CoI) (ESA Member)	European Southern Observatory - Chile
Dr. Swara Ravindranath (CoI)	Catholic University of America
Dr. Valentina Abril Melgarejo (CoI)	Space Telescope Science Institute
Dr. Cody Andrew Carr (CoI)	Zhejiang University (ZJU)
Dr. Simon Gazagnes (CoI)	University of Texas at Austin
Mr. Valentin Mauerhofer (CoI) (ESA Member)	University of Geneva, Department of Astronomy
Dr. Travis C Fischer (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST
Dra. Ana Monreal Ibero (CoI) (ESA Member)	Universiteit Leiden

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:42.0	yes
02	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:43.0	yes
03	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:44.0	yes
04	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:45.0	yes
07	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:46.0	yes
08	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:47.0	yes
09	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:48.0	yes
10	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:49.0	yes
05	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:50.0	yes
06	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:51.0	yes
11	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:51.0	yes
12	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:52.0	yes
13	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:53.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
14	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:54.0	yes
15	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:54.0	yes
16	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:55.0	yes
17	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:56.0	yes
18	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:57.0	yes
19	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:58.0	yes
20	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:58.0	yes
21	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	3	14-Aug-2024 13:02:59.0	yes
22	(1) HARO-11-C	STIS/CCD STIS/FUV-MAMA	2	14-Aug-2024 13:03:00.0	yes

65 Total Orbits Used

ABSTRACT

Spatially resolved UV properties across star-forming galaxies (SFGs) is a key, yet missing, component of our galaxy evolution knowledge. Limited to single aperture UV spectrographs, we are simply unable to fully characterize outflows, understand how massive stars shape their surrounding gas, and decipher the physical conditions behind nebular UV emission. Now, with JWST's rest-UV coverage of high-z systems at our disposal, it is more important than ever that we understand how UV properties change across a system and the subsequent biases involved in globally integrated UV spectra. To this end, we have designed a revolutionary program to obtain spatially resolved UV spectra via STIS 0.2" slit-stepping across Haro11. This nearby high-z analogue is the perfect specimen for these groundbreaking observations, being composed of three separate knots that cover a wide parameter space in metallicity, ionization, stellar populations, and outflow kinematics. Key ISM+wind+nebular features (CIV, SiII, SiII*) from high

spectral resolution G140M spectra, alongside the full UV ionizing continuum from medium resolution G140L, will be mapped at HII-region scales (<100pc). By combining these observations with optical MUSE-AO (0.13"/spaxel) data we will, for the first time, obtain robust 3D measurements of outflowing gas, map the structure of the neutral ISM, directly connect the properties of massive stars to the ISM, and decipher the diagnostic power of CIV. Moreover, by imitating UV-IFU observations on a real SFG, we will ultimately demonstrate the true scientific potential of a UV-IFU on HWO and explore its instrumental design - something that simulations alone simply cannot provide.

OBSERVING DESCRIPTION

This program is designed to simulate an IFU by stepping the 0.2" STIS slit across Haro 11. This galaxy is composed of three knots, A, B, and C.

There are two main parts:
1. Slits covering Knots A+C (5 pointings) (-2,-1,0,+1,+2)
2. Slits covering Knot B. (3 pointings) (-1,0,+1)

The slits are stepped using POSTARG values in increments of 0.2".

Each pointing has a G140L/1425 and G140M/1576 component.

We use a pattern for each pointing, stepping along the slit to increase spatial resolution.
The step size is 0.2706 arcsec = 11 MAMA pixels x 0.0246 arcsec/pix (pixels over which 1D spectra should be extracted)

The TA source is Knot C and then slits are offset from this position.
For Target Acquisition we use a standard MIRROR F28xF0LP setting, with diffuse ACQ + diffuse center flux centroid.
The same TA set-up was used by 15352 for Knot C.

We require the same orientation for all slits in order to correctly simulate an IFU cube.
Each visit has the same orient as Haro11 AC0_1.
Orientations are given at 283 degrees.

Each visit is 3 orbits long, with the exception of visit 22 which is two orbits long.

Exposure time calculations (ETCs) for G140L and G140M are as follows:
For both settings we utilized the coadded COS spectrum of Haro 11 from CLASSY (Berg+22) which covers the full wavelength range required here. ETCs were based on obtaining S/N~10 in the continuum at 1500 A, a sufficient depth to extract spectra along the cross-dispersion direction. In order to obtain a simulated flux within the STIS slits on Knots A+C, we scaled the CLASSY-coadd to the archival G140M/1222 spectra at each pointing. For Knot B, we scaled the CLASSY spectrum to the flux observed within a simulated STIS slit on the ACS/F140LP image. We utilize the same exposure time for each pointing to correctly simulate an IFU observation: Knots A+C requires 16904 s and 821 s for G140M and G140L, respectively. Knot B requires 33460 and 1342 s for G140M and G140L, respectively.
We will perform a standard target acquisition of 10 s using CCD. Given that our science requirements can be achieved using the 26x0.2" STIS aperture, there is no need to include an acquisition peak-up exposure.

Visit

Proposal 17810, Haro11_AC0_1 (01) Wed Aug 14 17:03:00 GMT 2024

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: ORIENT 283D TO 283 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2), (3), (4)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

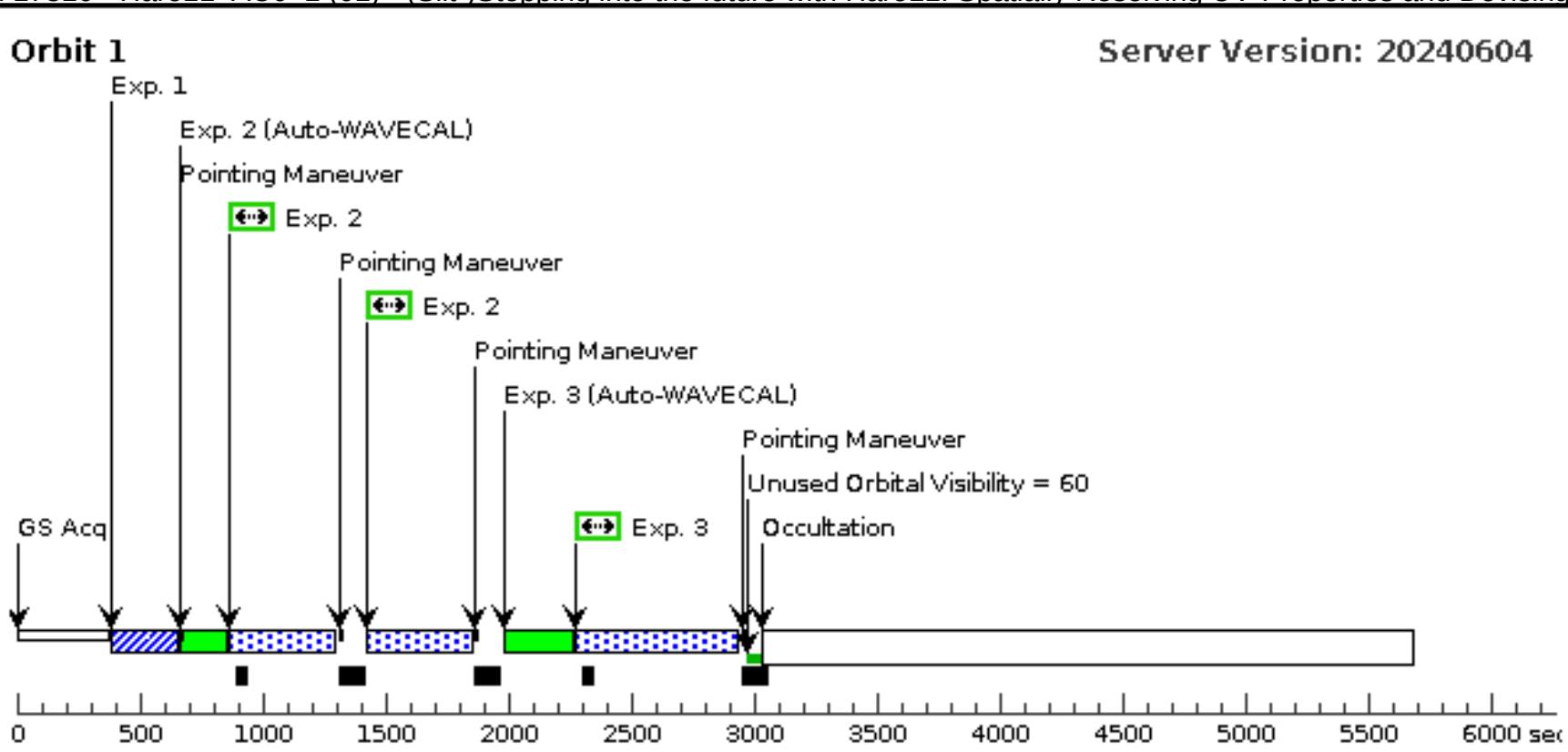
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

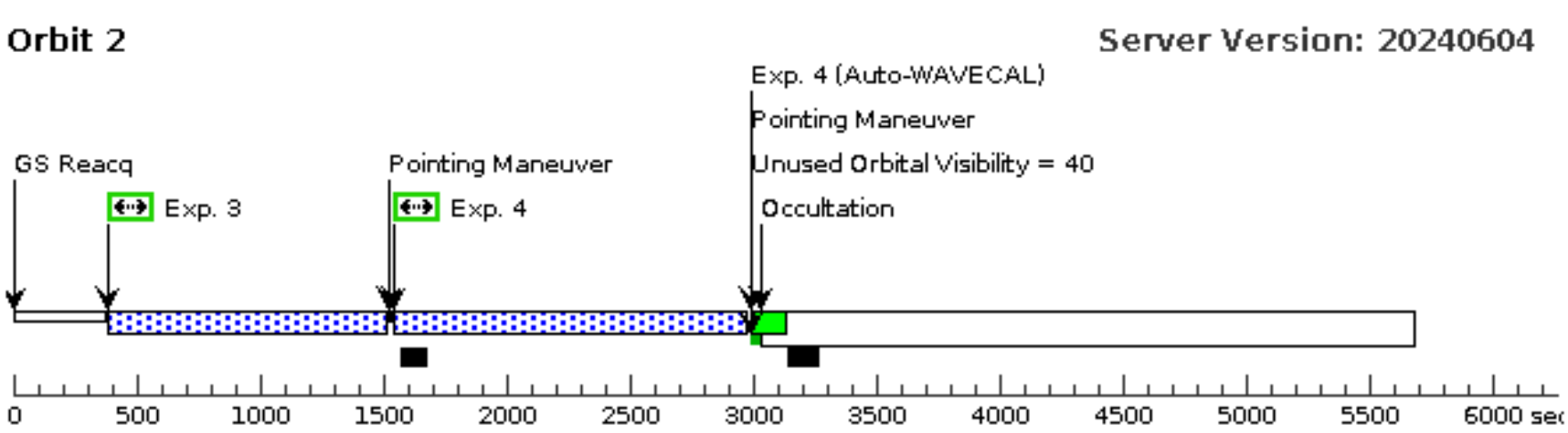
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

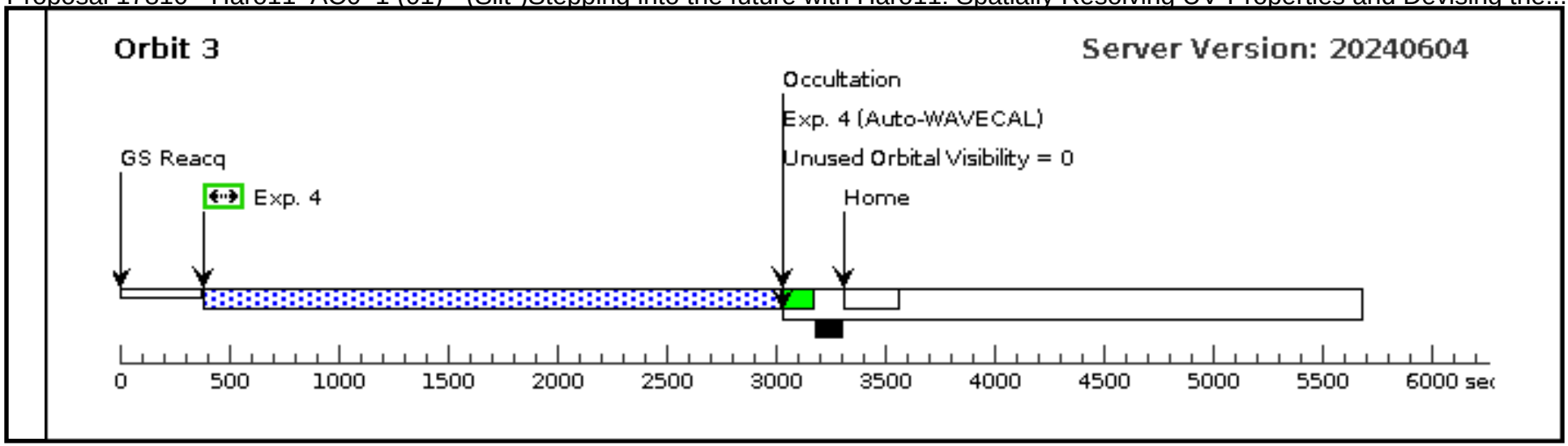
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_AC0_ACQ1	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR	CHECKBOX=5; DIFFUSE-CENTER=FLUX-CENTROID; ACQTYPE=DIFFUSE			10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_AC0_G140L_1 (STIS.sp.1911782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A			Pattern 1, Exps 2-2 in Haro11_AC0_1 (01) (1)	410 Secs (830 Secs)	
								[==>415.0 Secs (Pattern 1)]	***[1]***
								[==>415.0 Secs (Pattern 2)]	
3	haro11_AC0_G140M_1 (STIS.sp.1911782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A			Pattern 1, Exps 3-3 in Haro11_AC0_1 (01) (1)	640 Secs (1762 Secs)	
								[==>645.0 Secs (Pattern 1)]	***[1]***
								[==>1117.0 Secs (Pattern 2)]	***[2]***
4	haro11_AC0_G140M_2 (STIS.sp.1911782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A			Pattern 1, Exps 4-4 in Haro11_AC0_1 (01) (1)	940 Secs (4041 Secs)	
								[==>1417.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Occultation
Exp. 4 (Auto-WAVECAL)
Unused Orbital Visibility = 0
GS Reacq
Exp. 4
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_AC0_2 (02) Wed Aug 14 17:03:00 GMT 2024

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2-3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

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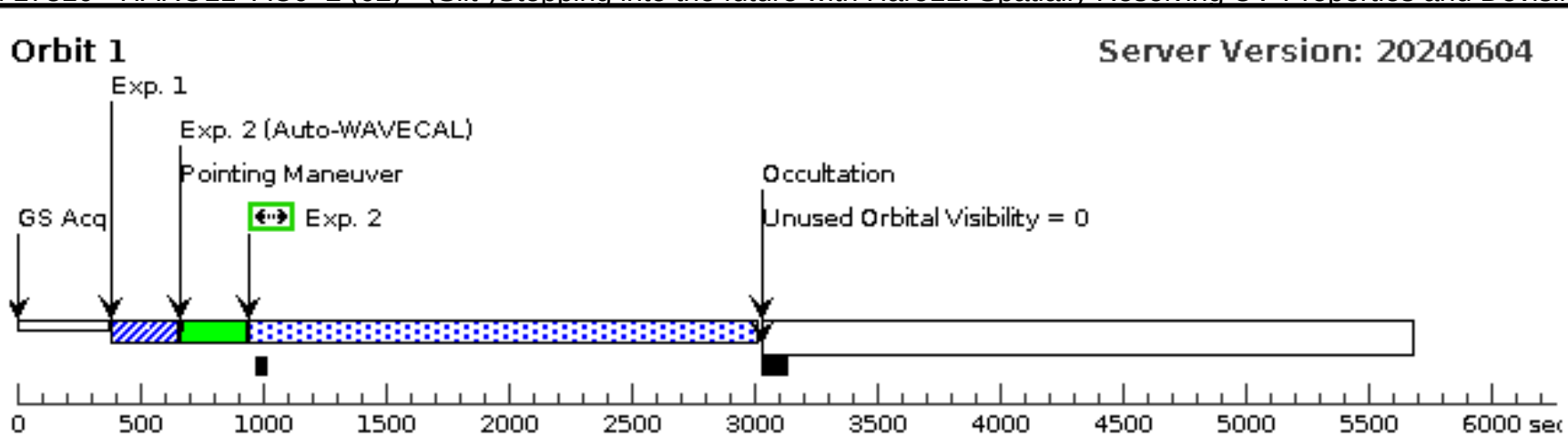
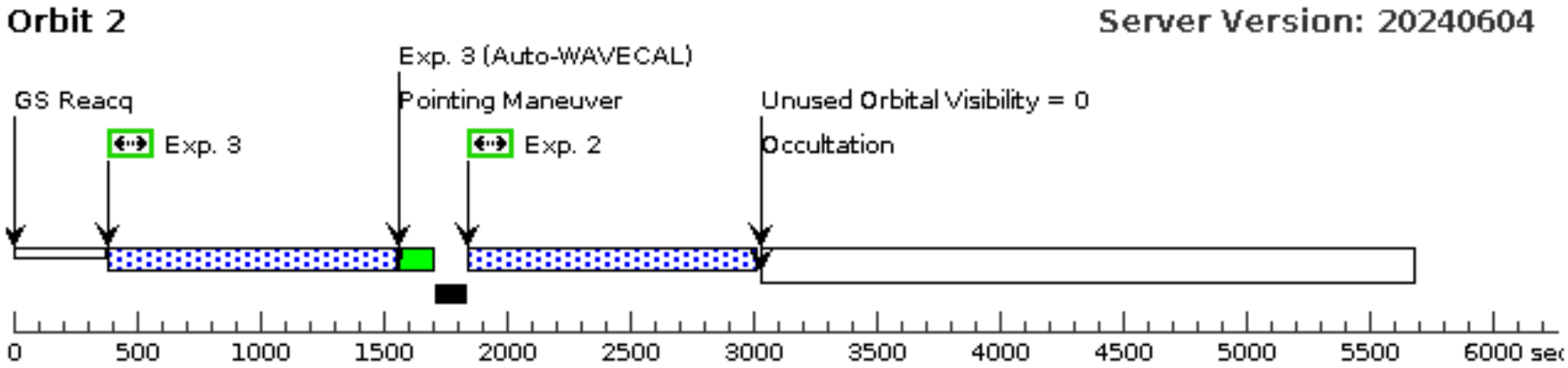
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

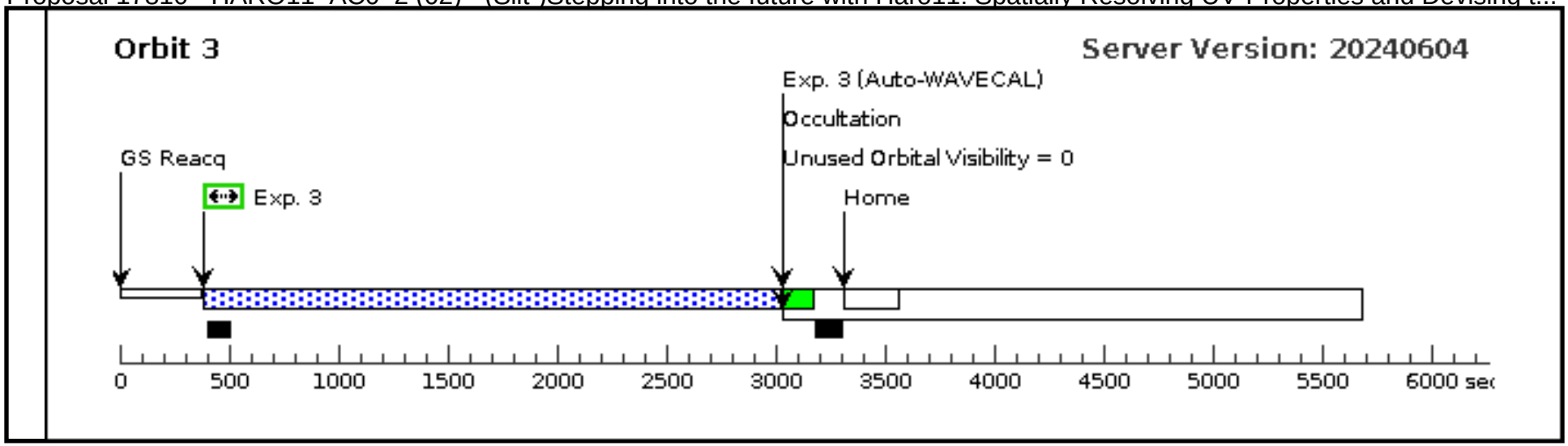
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_AC0_ACQ2 (STIS.sp.1911782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_AC0_G140M_4 (STIS.sp.1911782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A			Pattern 1, Exps 2-3 in HARO11_AC0_2 (02) (1)	1000 Secs (3211 Secs)	
								[==>2055.0 Secs (Pattern 1)]	***[1]***
								[==>1156.0 Secs (Pattern 2)]	***[2]***
3	haro11_AC0_G140M_5 (STIS.sp.1911782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A			Pattern 1, Exps 2-3 in HARO11_AC0_2 (02) (1)	1000 Secs (3780 Secs)	
								[==>1156.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Exp. 3 (Auto-WAVECAL)
Occultation
Unused Orbital Visibility = 0
GS Reacq
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, Haro11_AC-1_1 (03) Wed Aug 14 17:03:00 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(Haro11_AC-1_1 (03)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

(Haro11_AC-1_1 (03)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

(Haro11_AC-1_1 (03)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2), (3), (4)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

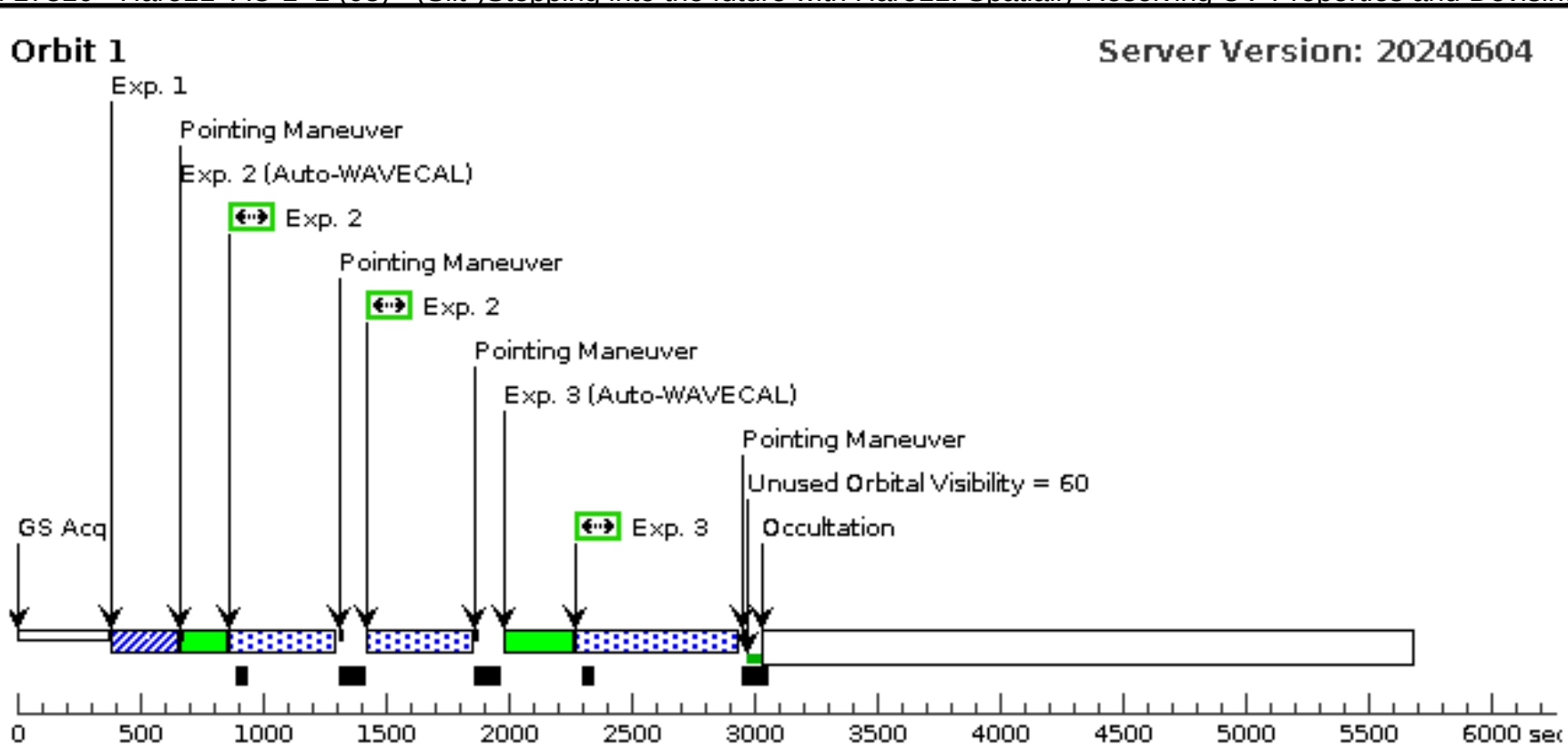
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

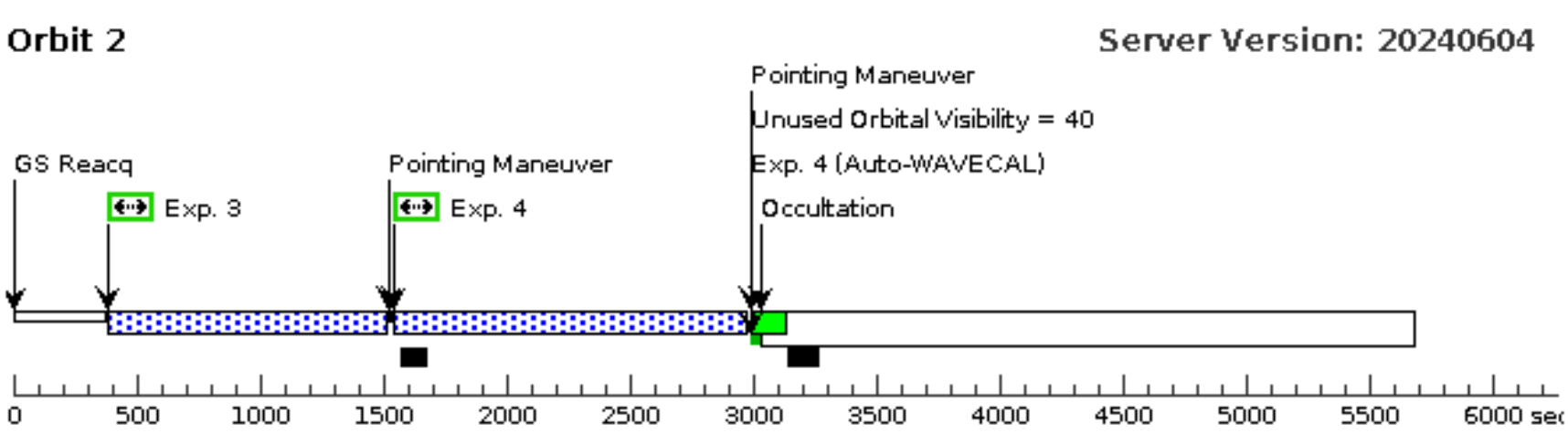
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

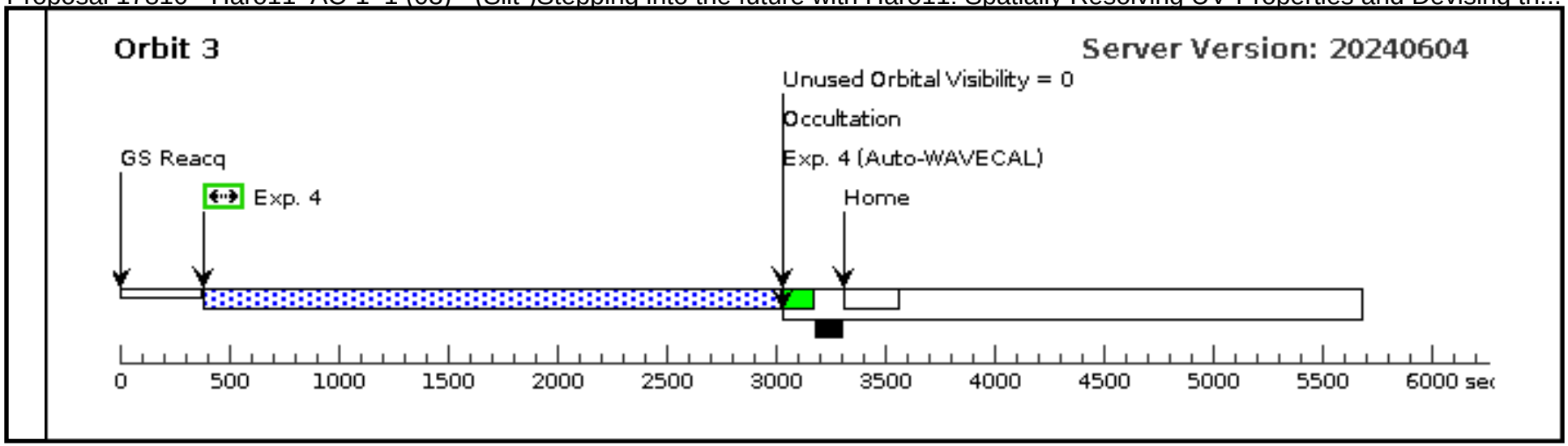
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_AC-1_ACQ1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR	CHECKBOX=5; DIFFUSE-CENTER =FLUX-CENTROID ; ACQTYPE=DIFFUSE			10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_AC-1_G140L_1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A		POS TARG -0.2,null	Pattern 1, Exps 2-2 in Haro11_AC-1_1 (03) (1)	410 Secs (830 Secs)	
								[==>415.0 Secs (Pattern 1)]	***[1]***
								[==>415.0 Secs (Pattern 2)]	
3	haro11_AC-1_G140M_1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG -0.2,null	Pattern 1, Exps 3-3 in Haro11_AC-1_1 (03) (1)	640 Secs (1762 Secs)	
								[==>645.0 Secs (Pattern 1)]	***[1]***
								[==>1117.0 Secs (Pattern 2)]	***[2]***
4	haro11_AC-1_G140M_2 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG -0.2,null	Pattern 1, Exps 4-4 in Haro11_AC-1_1 (03) (1)	940 Secs (4041 Secs)	
								[==>1417.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Unused Orbital Visibility = 0
Occultation
Exp. 4 (Auto-WAVECAL)
GS Reacq
Exp. 4
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_AC-1_2 (04) Wed Aug 14 17:03:00 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(HARO11_AC-1_2 (04)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2-3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
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		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

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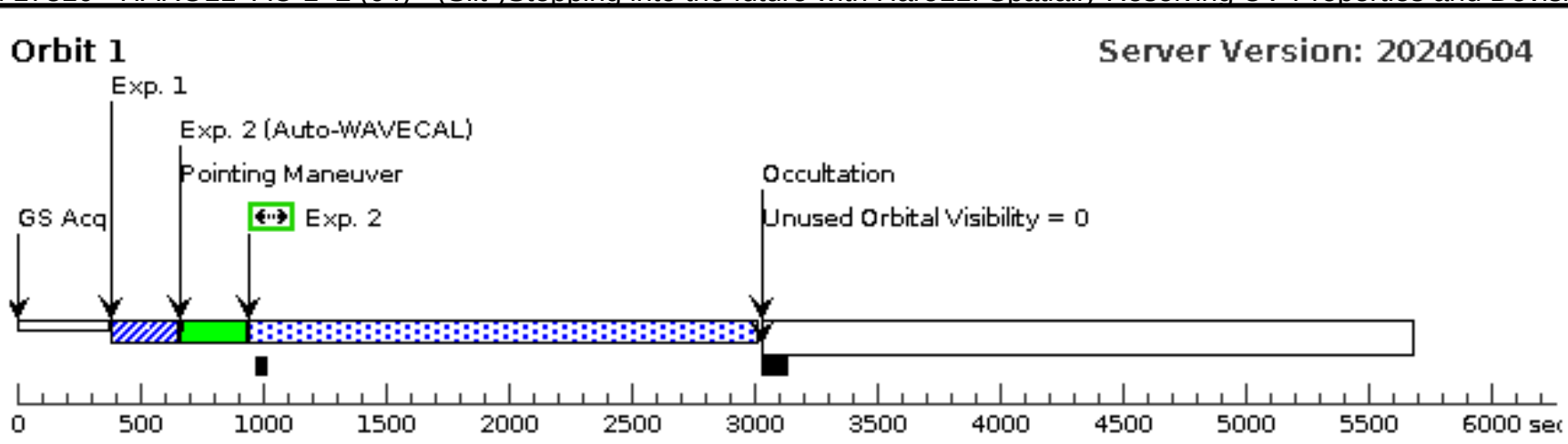
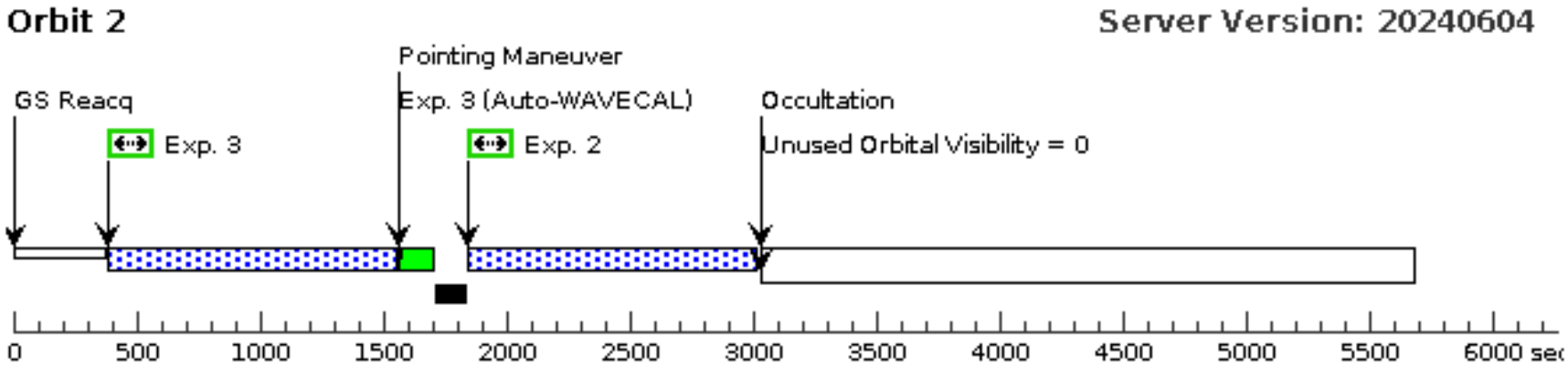
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

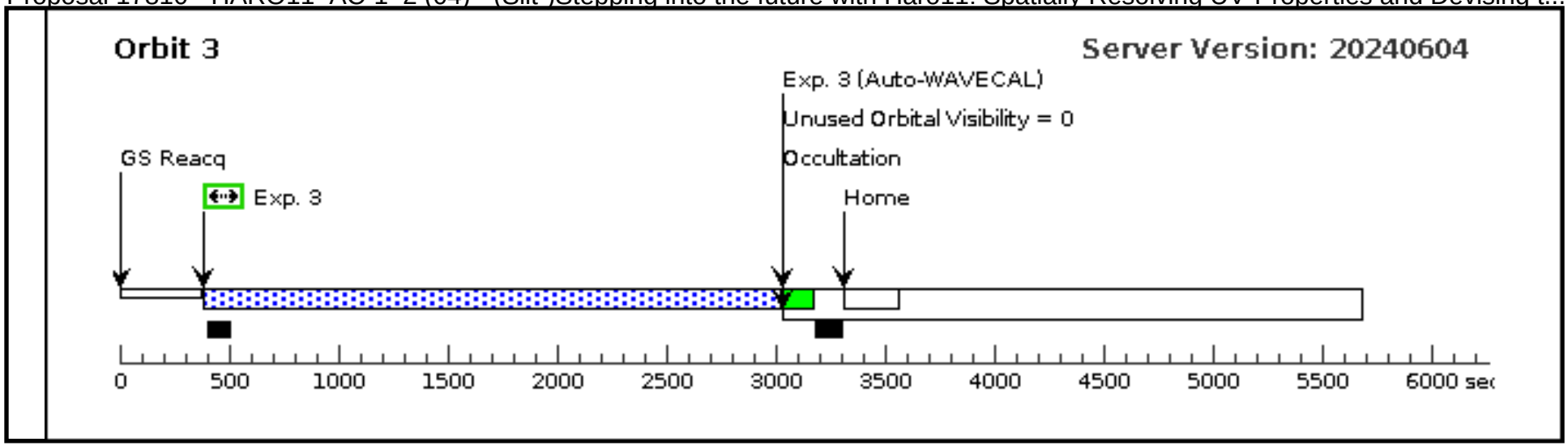
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_AC-1_ACQ2 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_AC-1_G140M_4 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG -0.2,null	Pattern 1, Exps 2-3 in HARO11_AC-1_2 (04) (1)	1000 Secs (3211 Secs)	
								[==>2055.0 Secs (Pattern 1)]	***[1]***
								[==>1156.0 Secs (Pattern 2)]	***[2]***
3	haro11_AC-1_G140M_5 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG -0.2,null	Pattern 1, Exps 2-3 in HARO11_AC-1_2 (04) (1)	1000 Secs (3780 Secs)	
								[==>1156.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Exp. 3 (Auto-WAVECAL)
Unused Orbital Visibility = 0
Occultation
GS Reacq
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, Haro11_AC+1_1 (07) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(Haro11_AC+1_1 (07)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

(Haro11_AC+1_1 (07)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

(Haro11_AC+1_1 (07)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2), (3), (4)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

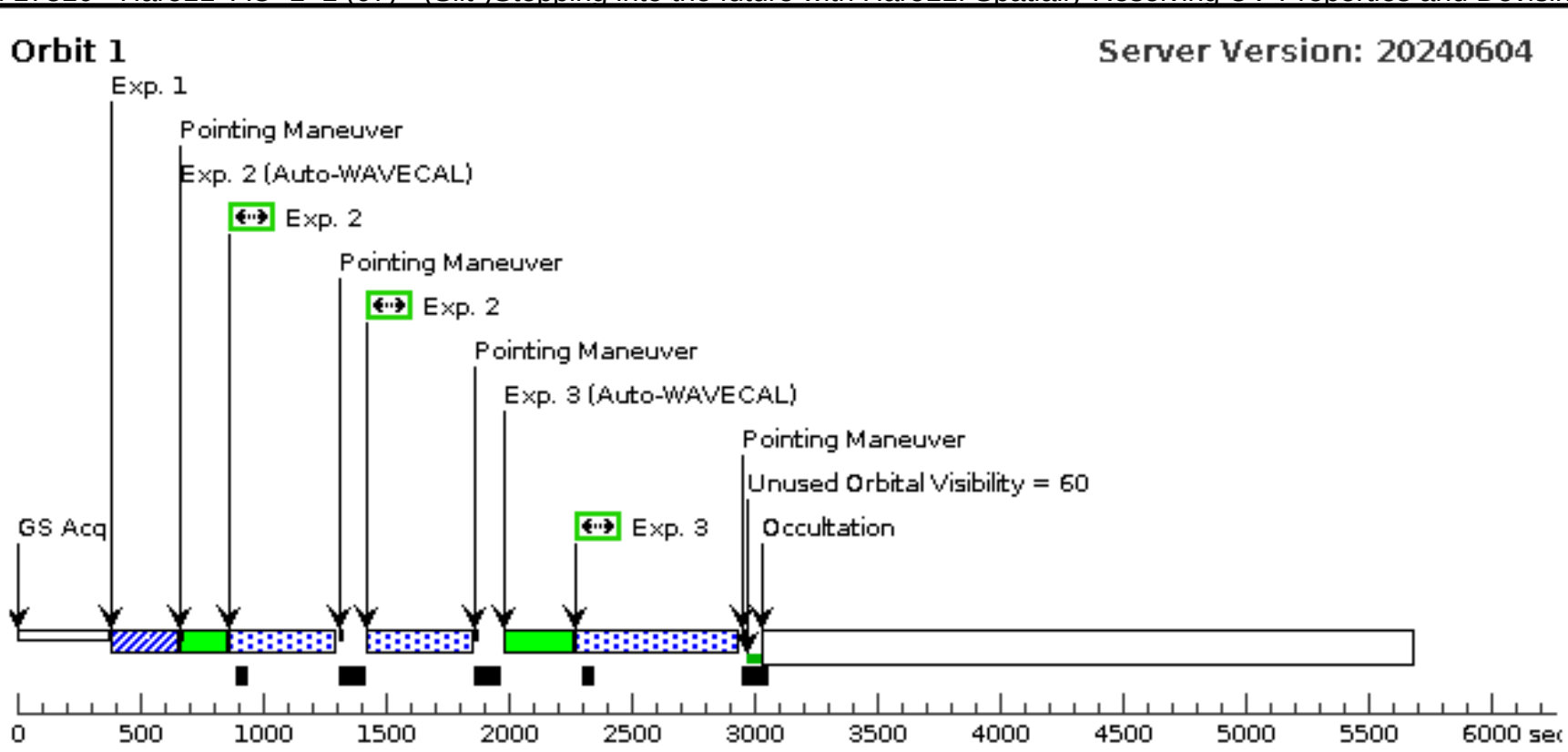
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

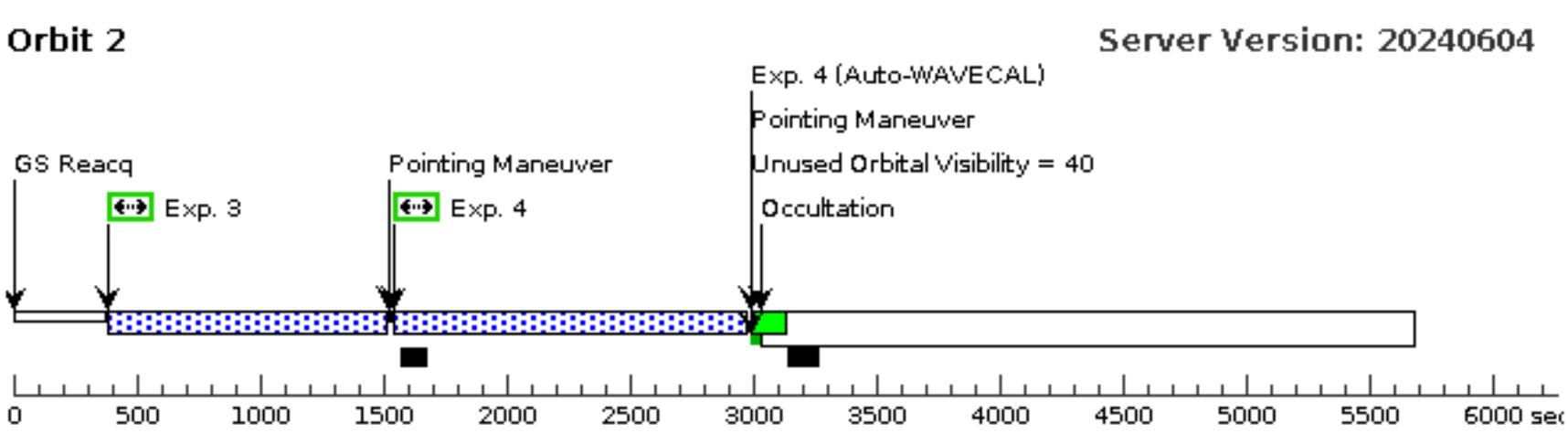
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

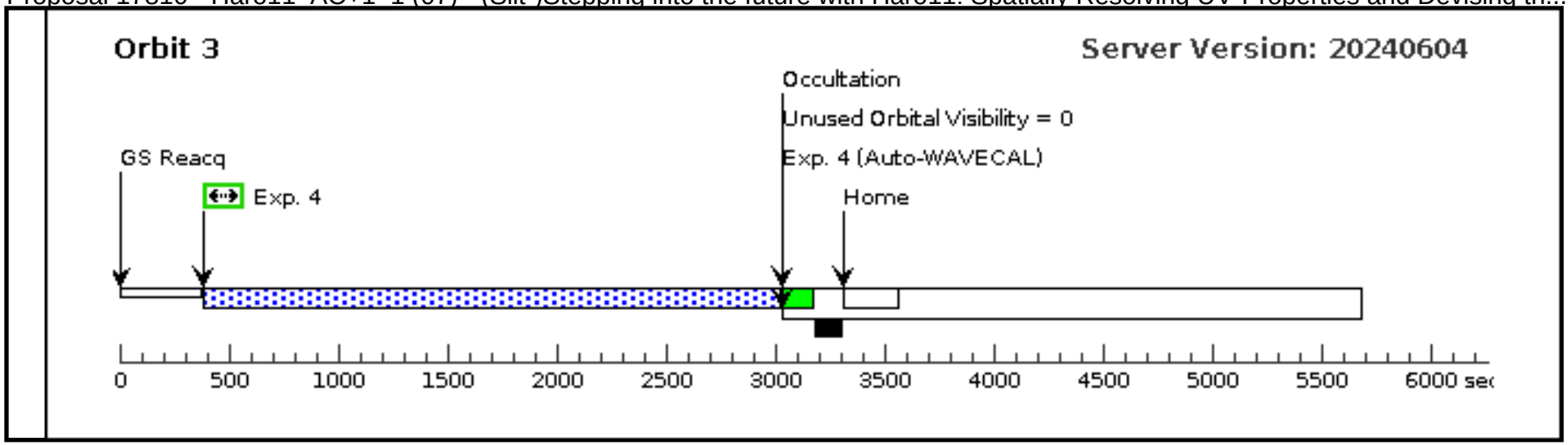
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_AC+1_ACQ1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR	CHECKBOX=5; DIFFUSE-CENTER=FLUX-CENTROID; ACQTYPE=DIFFUSE			10 Secs (10 Secs) *[==>]*	 ***[1]***
2	haro11_AC+1_G140L_1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A		POS TARG 0.2,null	Pattern 1, Exps 2-2 in Haro11_AC+1_1 (07) (1)	410 Secs (830 Secs) *[==>415.0 Secs (Pattern 1)]* *[==>415.0 Secs (Pattern 2)]*	 ***[1]***
3	haro11_AC+1_G140M_1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 0.2,null	Pattern 1, Exps 3-3 in Haro11_AC+1_1 (07) (1)	640 Secs (1762 Secs) *[==>645.0 Secs (Pattern 1)]* *[==>1117.0 Secs (Pattern 2)]*	 ***[1]*** ***[2]***
4	haro11_AC+1_G140M_2 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 0.2,null	Pattern 1, Exps 4-4 in Haro11_AC+1_1 (07) (1)	940 Secs (4041 Secs) *[==>1417.0 Secs (Pattern 1)]* *[==>2624.0 Secs (Pattern 2)]*	 ***[2]*** ***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Occultation
Unused Orbital Visibility = 0
Exp. 4 (Auto-WAVECAL)
GS Reacq
Exp. 4
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_AC+1_2 (08) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(HARO11_AC+1_2 (08)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2-3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

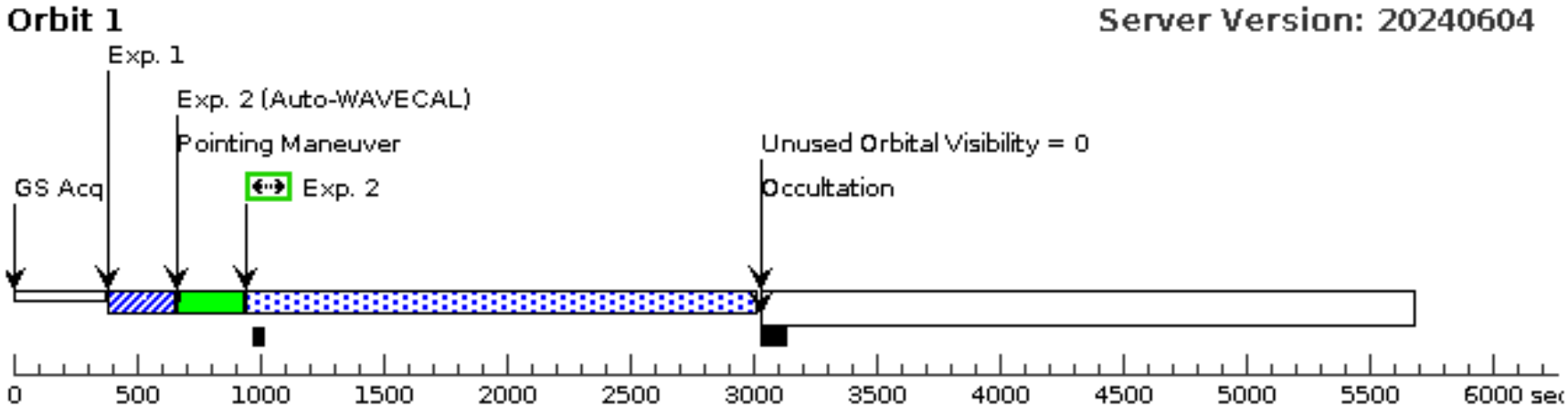
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

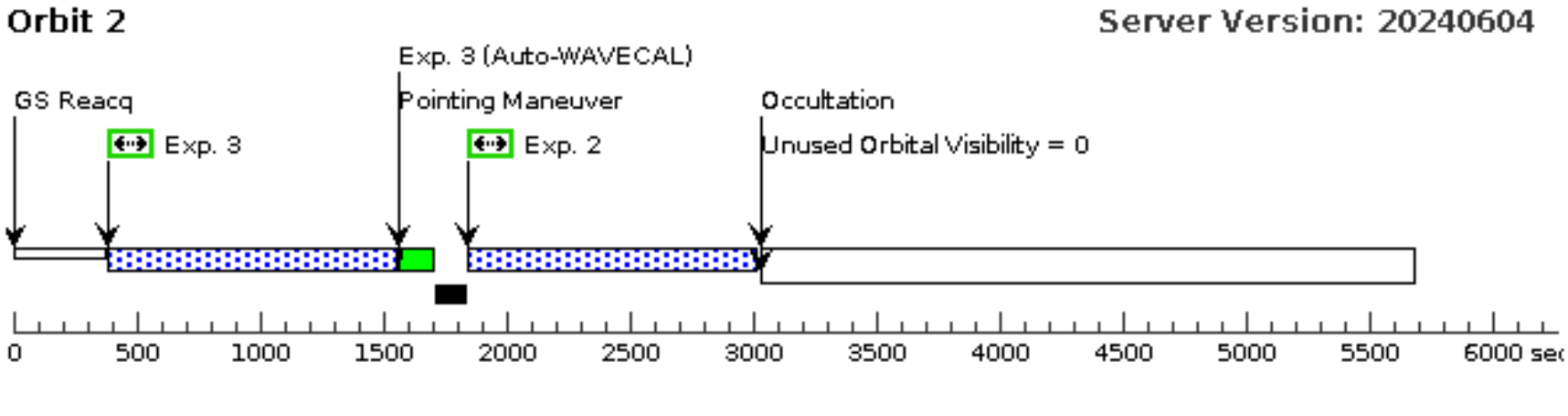
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

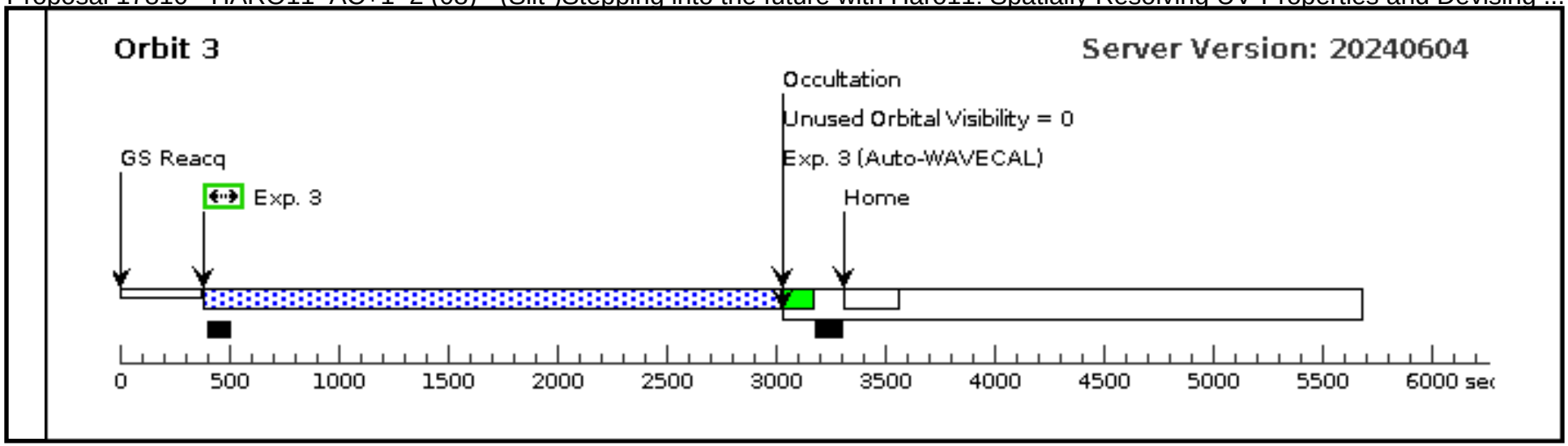
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_AC+1_ACQ2 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_AC+1_G140M_4 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 0.2,null	Pattern 1, Exps 2-3 in HARO11_AC+1_2 (08) (1)	1000 Secs (3211 Secs)	
								[==>2055.0 Secs (Pattern 1)]	***[1]***
								[==>1156.0 Secs (Pattern 2)]	***[2]***
3	haro11_AC+1_G140M_5 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 0.2,null	Pattern 1, Exps 2-3 in HARO11_AC+1_2 (08) (1)	1000 Secs (3780 Secs)	
								[==>1156.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Occultation
Unused Orbital Visibility = 0
Exp. 3 (Auto-WAVECAL)
GS Reacq
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, Haro11_AC+2_1 (09) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(Haro11_AC+2_1 (09)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

(Haro11_AC+2_1 (09)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

(Haro11_AC+2_1 (09)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2), (3), (4)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

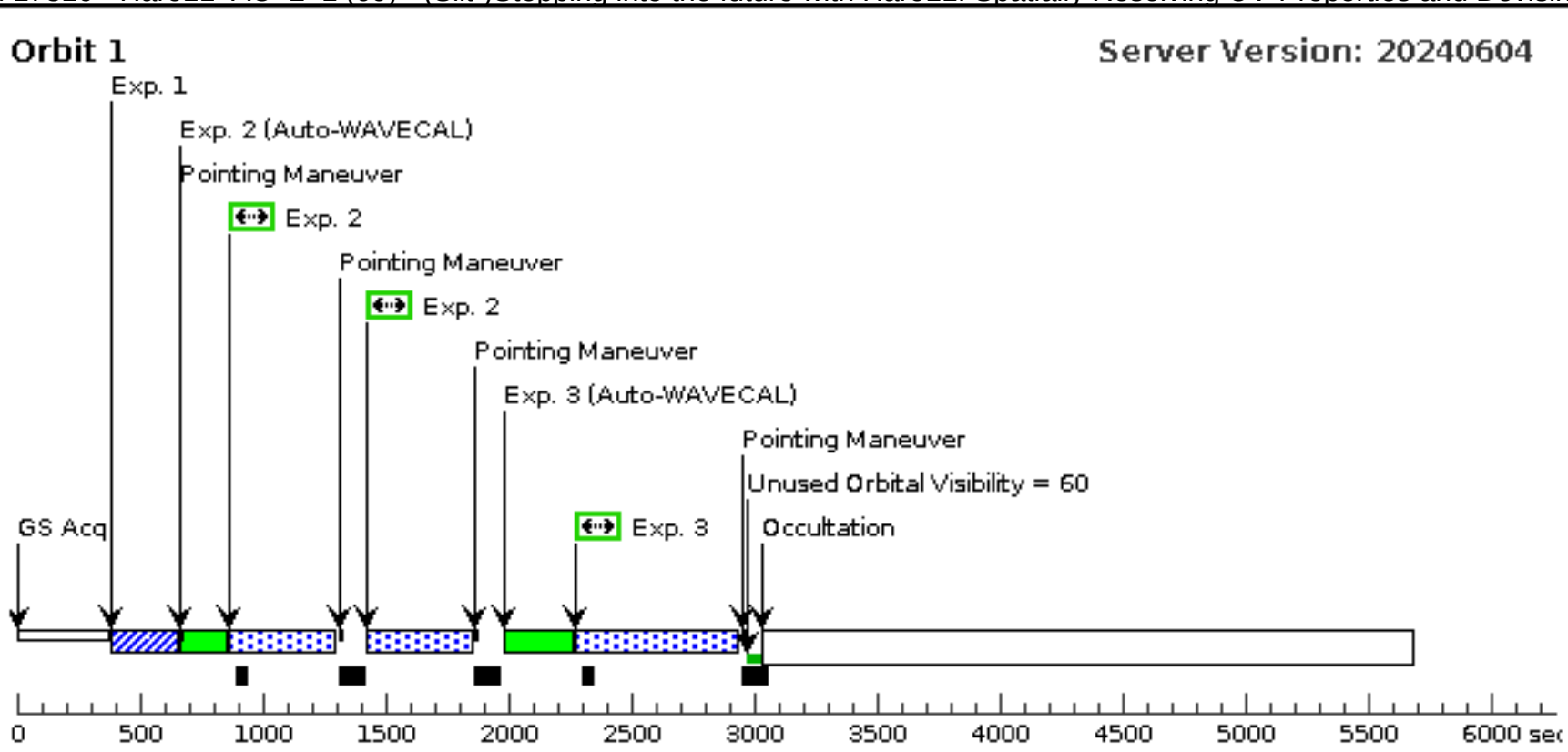
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

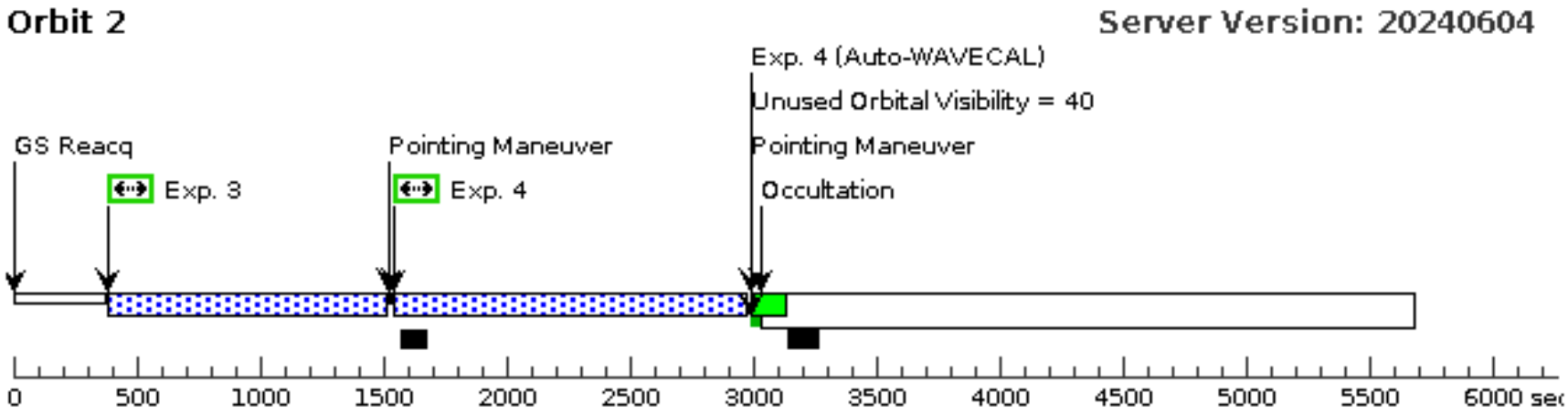
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

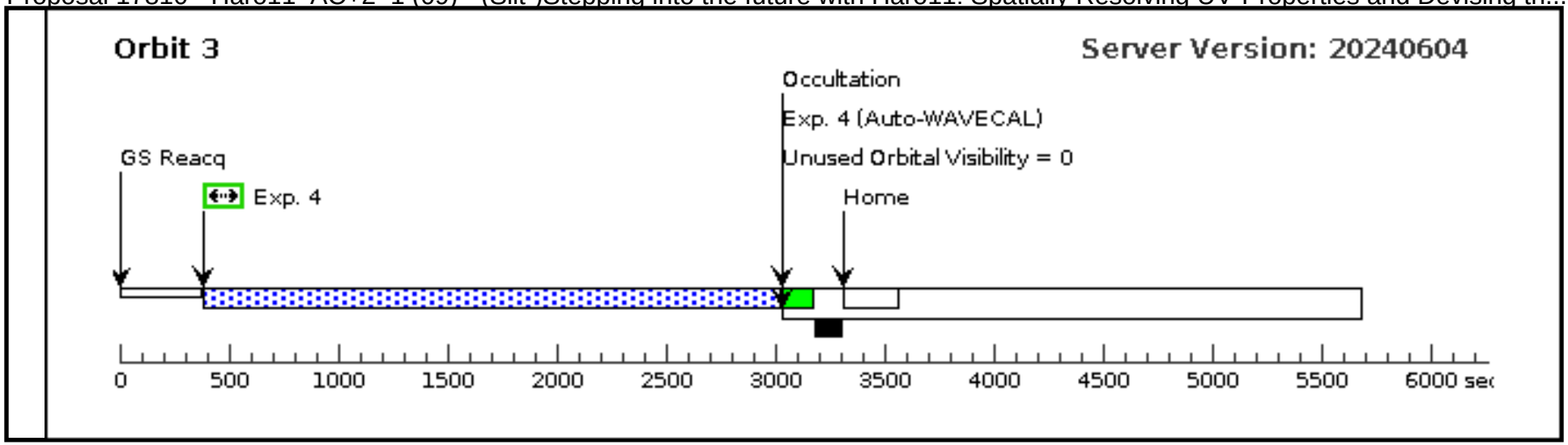
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_AC+2_ACQ1 (STIS.sp.1911782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR	CHECKBOX=5; DIFFUSE-CENTER=FLUX-CENTROID; ACQTYPE=DIFFUSE			10 Secs (10 Secs) *[==>]*	 ***[1]***
2	haro11_AC+2_G140L_1 (STIS.sp.1911782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A		POS TARG +0.4,null	Pattern 1, Exps 2-2 in Haro11_AC+2_1 (09) (1)	410 Secs (830 Secs) *[==>415.0 Secs (Pattern 1)]* *[==>415.0 Secs (Pattern 2)]*	 ***[1]***
3	haro11_AC+2_G140M_1 (STIS.sp.1911782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG +0.4,null	Pattern 1, Exps 3-3 in Haro11_AC+2_1 (09) (1)	640 Secs (1762 Secs) *[==>645.0 Secs (Pattern 1)]* *[==>1117.0 Secs (Pattern 2)]*	 ***[1]*** ***[2]***
4	haro11_AC+2_G140M_2 (STIS.sp.1911782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG +0.4,null	Pattern 1, Exps 4-4 in Haro11_AC+2_1 (09) (1)	940 Secs (4041 Secs) *[==>1417.0 Secs (Pattern 1)]* *[==>2624.0 Secs (Pattern 2)]*	 ***[2]*** ***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Occultation
Exp. 4 (Auto-WAVECAL)
Unused Orbital Visibility = 0
GS Reacq
Exp. 4
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_AC+2_2 (10) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(HARO11_AC+2_2 (10)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2-3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

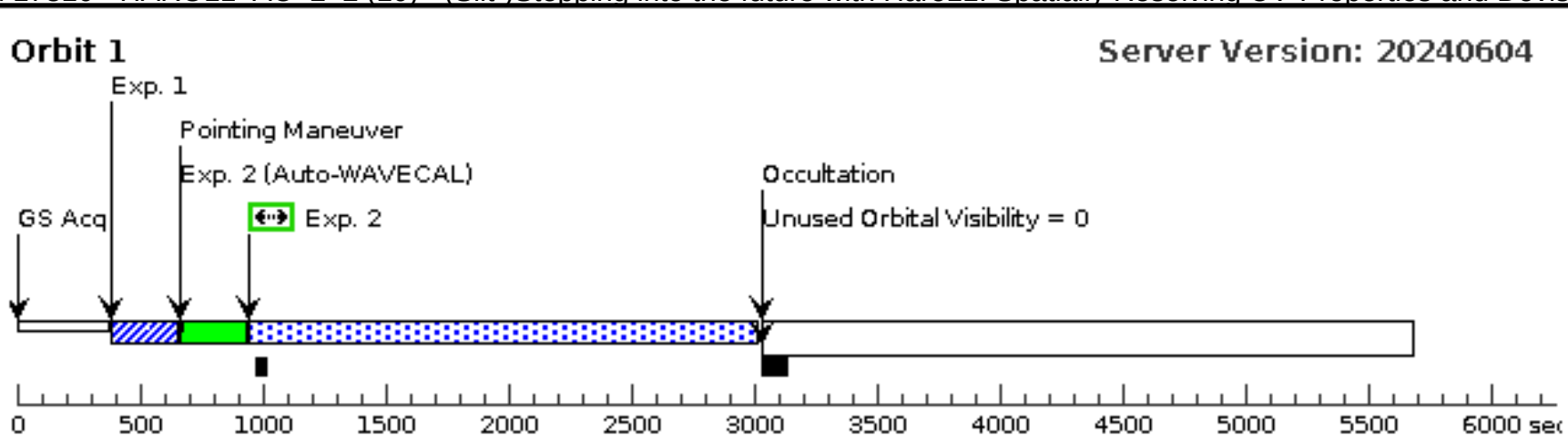
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

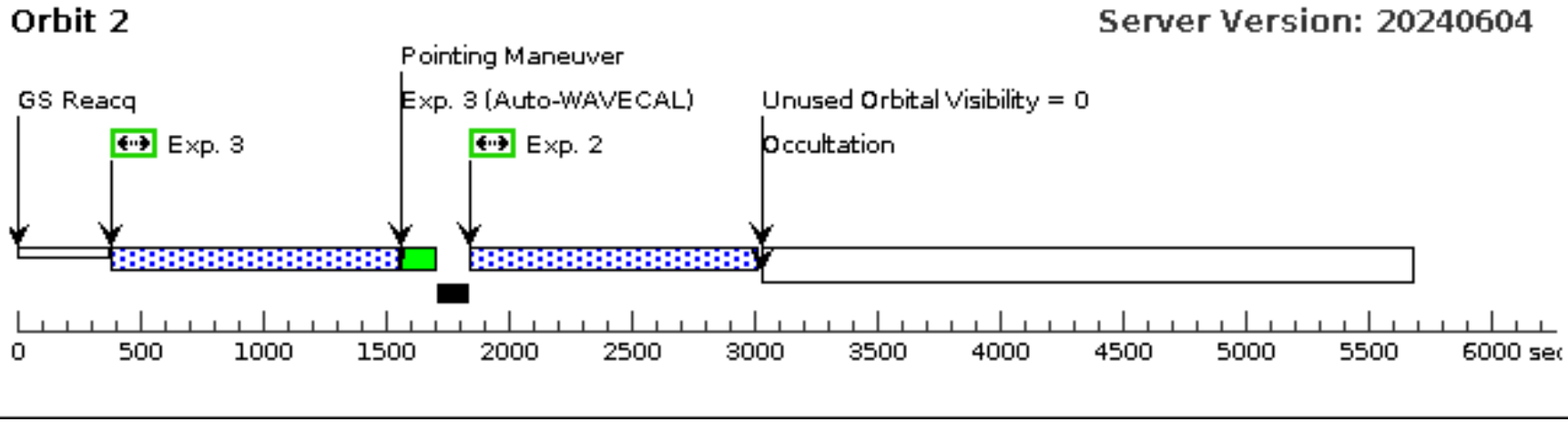
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

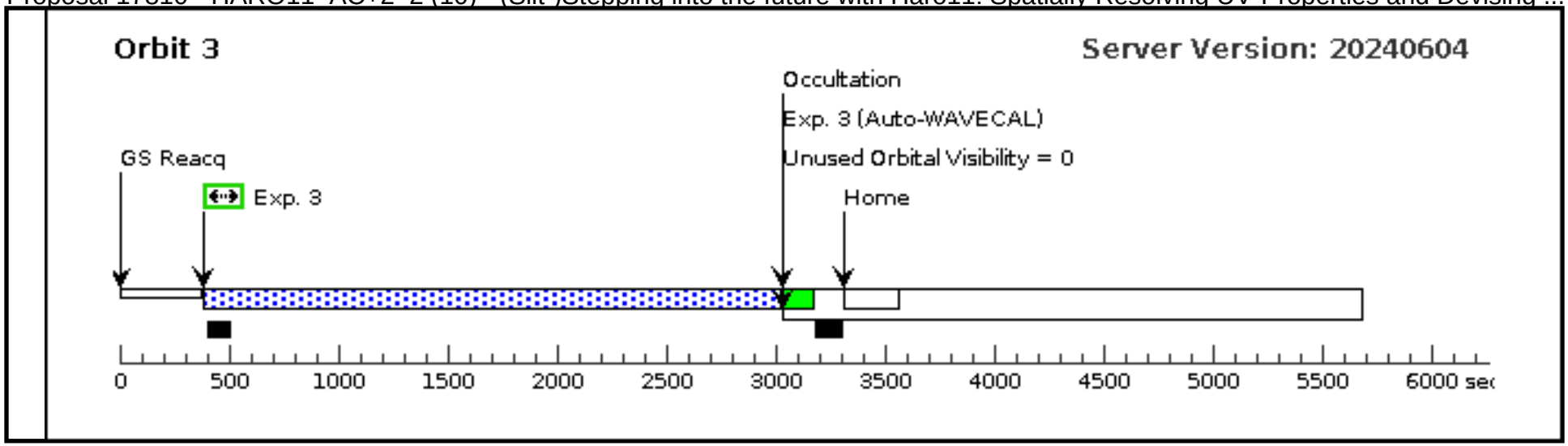
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_AC+2_ACQ2 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_AC+2_G140M_4 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG +0.4,null	Pattern 1, Exps 2-3 in HARO11_AC+2_2 (10) (1)	1000 Secs (3211 Secs)	
								[==>2055.0 Secs (Pattern 1)]	***[1]***
								[==>1156.0 Secs (Pattern 2)]	***[2]***
3	haro11_AC+2_G140M_5 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG +0.4,null	Pattern 1, Exps 2-3 in HARO11_AC+2_2 (10) (1)	1000 Secs (3780 Secs)	
								[==>1156.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Occultation
Exp. 3 (Auto-WAVECAL)
Unused Orbital Visibility = 0
GS Reacq
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, Haro11_AC+3_1 (05) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(Haro11_AC+3_1 (05)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

(Haro11_AC+3_1 (05)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

(Haro11_AC+3_1 (05)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2), (3), (4)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

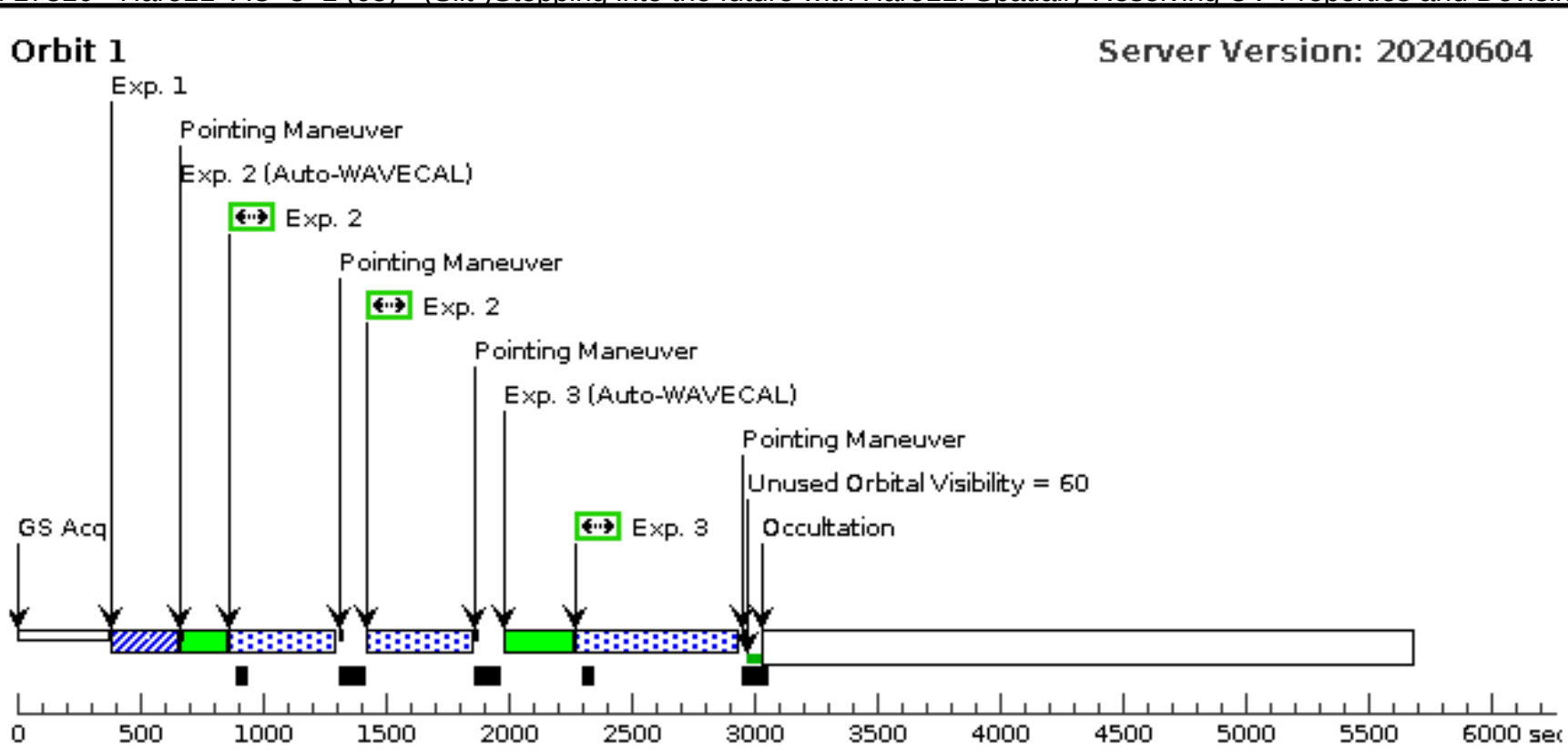
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

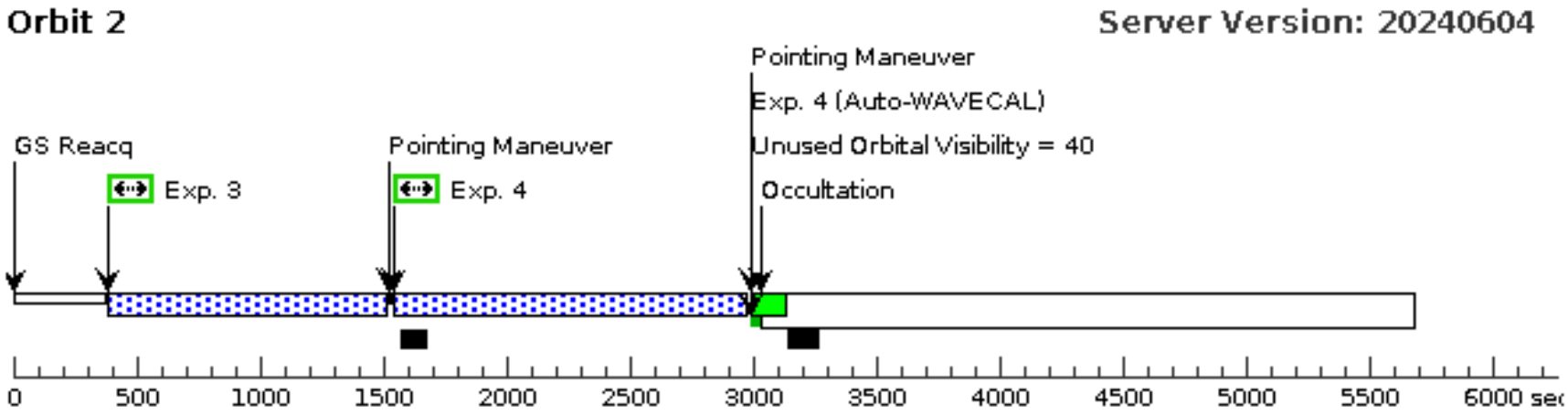
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

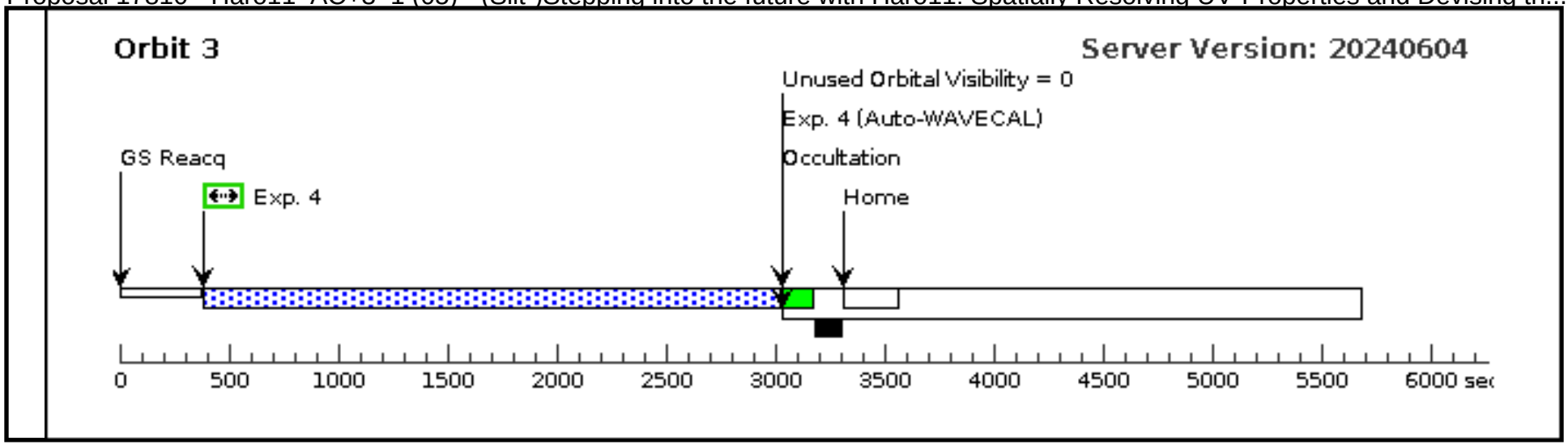
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_AC+3_ACQ1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR	CHECKBOX=5; DIFFUSE-CENTER=FLUX-CENTROID; ACQTYPE=DIFFUSE			10 Secs (10 Secs) *[==>]*	 ***[1]***
2	haro11_AC+3_G140L_1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A		POS TARG +0.6,null	Pattern 1, Exps 2-2 in Haro11_AC+3_1 (05) (1)	410 Secs (830 Secs) *[==>415.0 Secs (Pattern 1)]* *[==>415.0 Secs (Pattern 2)]*	 ***[1]***
3	haro11_AC+3_G140M_1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG +0.6,null	Pattern 1, Exps 3-3 in Haro11_AC+3_1 (05) (1)	640 Secs (1762 Secs) *[==>645.0 Secs (Pattern 1)]* *[==>1117.0 Secs (Pattern 2)]*	 ***[1]*** ***[2]***
4	haro11_AC+3_G140M_2 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG +0.6,null	Pattern 1, Exps 4-4 in Haro11_AC+3_1 (05) (1)	940 Secs (4041 Secs) *[==>1417.0 Secs (Pattern 1)]* *[==>2624.0 Secs (Pattern 2)]*	 ***[2]*** ***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Unused Orbital Visibility = 0
Exp. 4 (Auto-WAVECAL)
Occultation
GS Reacq
Exp. 4
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_AC+3_2 (06) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(HARO11_AC+3_2 (06)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2-3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

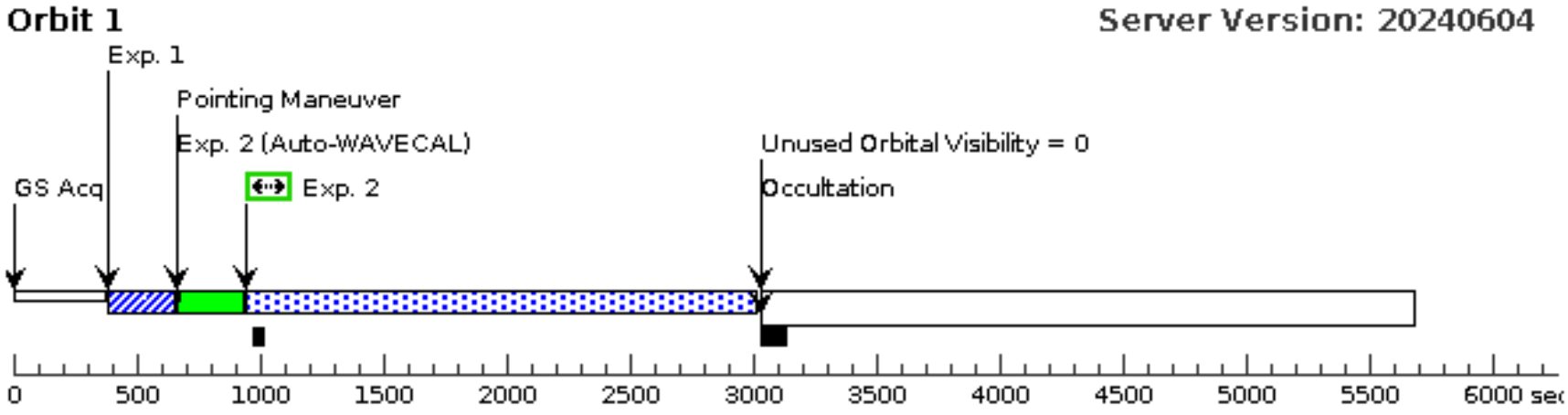
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

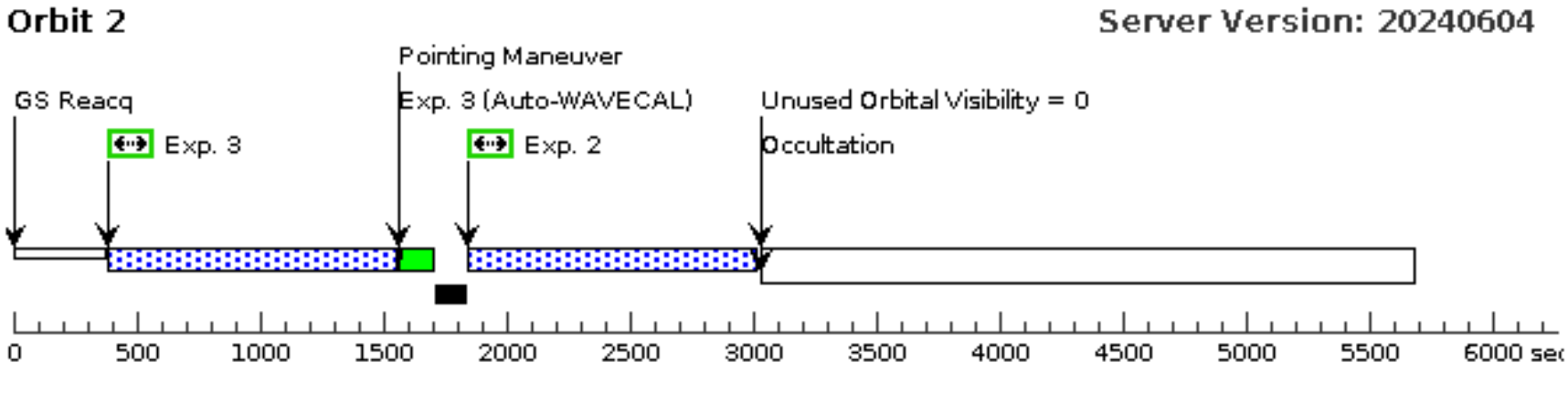
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

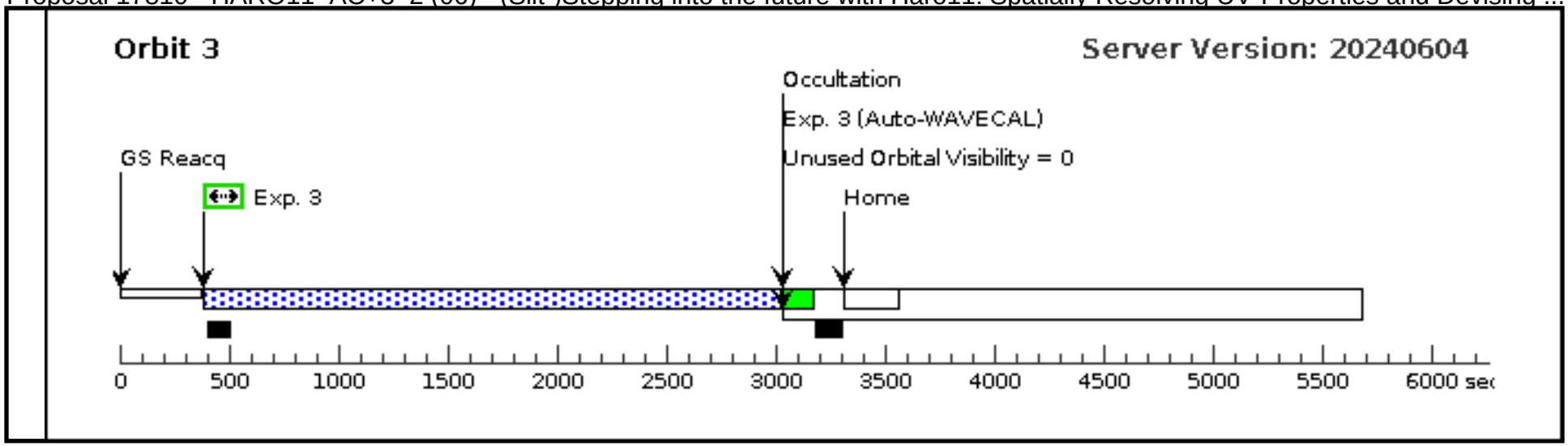
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_AC+3_ACQ2 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_AC+3_G140M_4 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG +0.6,null	Pattern 1, Exps 2-3 in HARO11_AC+3_2 (06) (1)	1000 Secs (3211 Secs)	
								[==>2055.0 Secs (Pattern 1)]	***[1]***
								[==>1156.0 Secs (Pattern 2)]	***[2]***
3	haro11_AC+3_G140M_5 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 0.6,null	Pattern 1, Exps 2-3 in HARO11_AC+3_2 (06) (1)	1000 Secs (3780 Secs)	
								[==>1156.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Occultation
Exp. 3 (Auto-WAVECAL)
Unused Orbital Visibility = 0
GS Reacq
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, Haro11_B0_1 (11) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(Haro11_B0_1 (11)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

(Haro11_B0_1 (11)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2), (3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

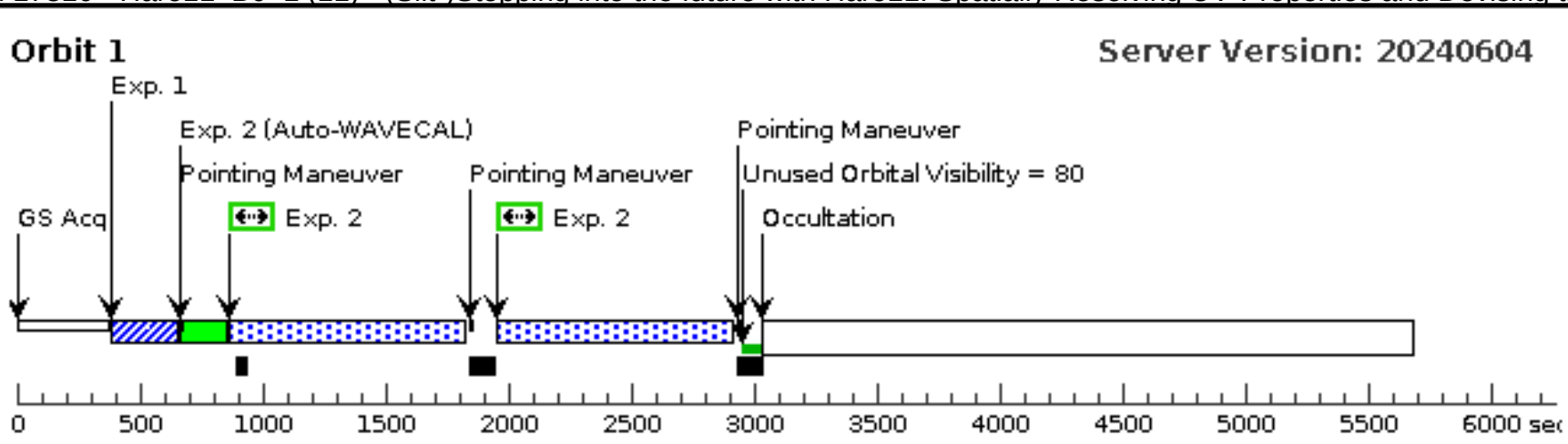
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

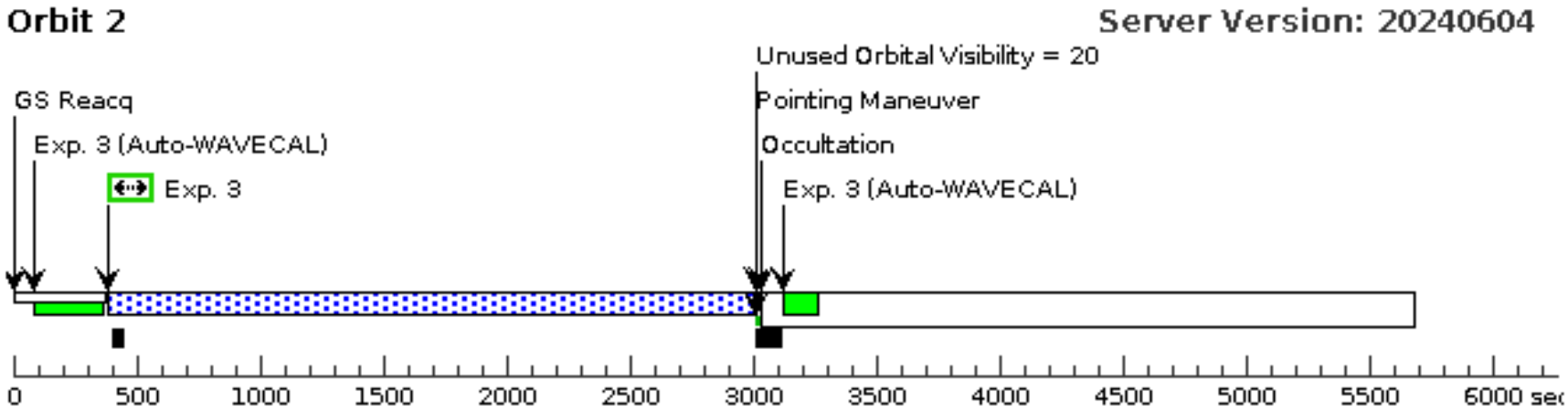
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

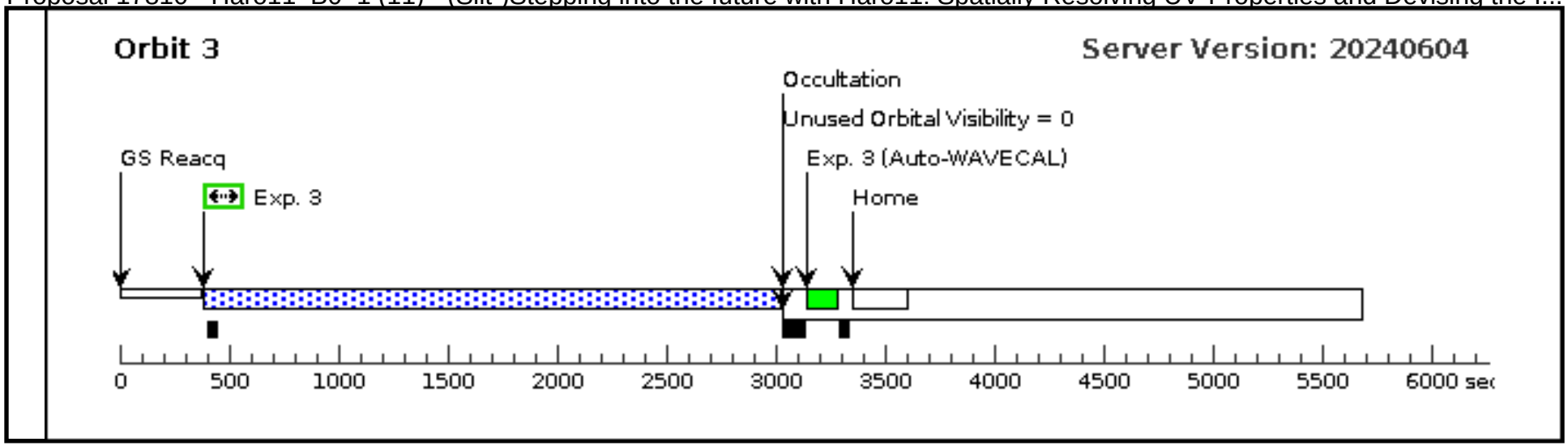
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_B0_ACQ1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR	CHECKBOX=5; DIFFUSE-CENTER =FLUX-CENTROID ; ACQTYPE=DIFFUSE			10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_B0_G140L_1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A		POS TARG 1.9,null	Pattern 1, Exps 2-2 in Haro11_B0_1 (11) (1)	650 Secs (1896 Secs)	
								[==>948.0 Secs (Pattern 1)]	***[1]***
								[==>948.0 Secs (Pattern 2)]	
3	haro11_B0_G140M_1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.9,null	Pattern 1, Exps 3-3 in Haro11_B0_1 (11) (1)	2000 Secs (5228 Secs)	
								[==>2604.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Occultation
Unused Orbital Visibility = 0
GS Reacq
Exp. 3 (Auto-WAVECAL)
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_B0_2 (12) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(HARO11_B0_2 (12)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2-3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

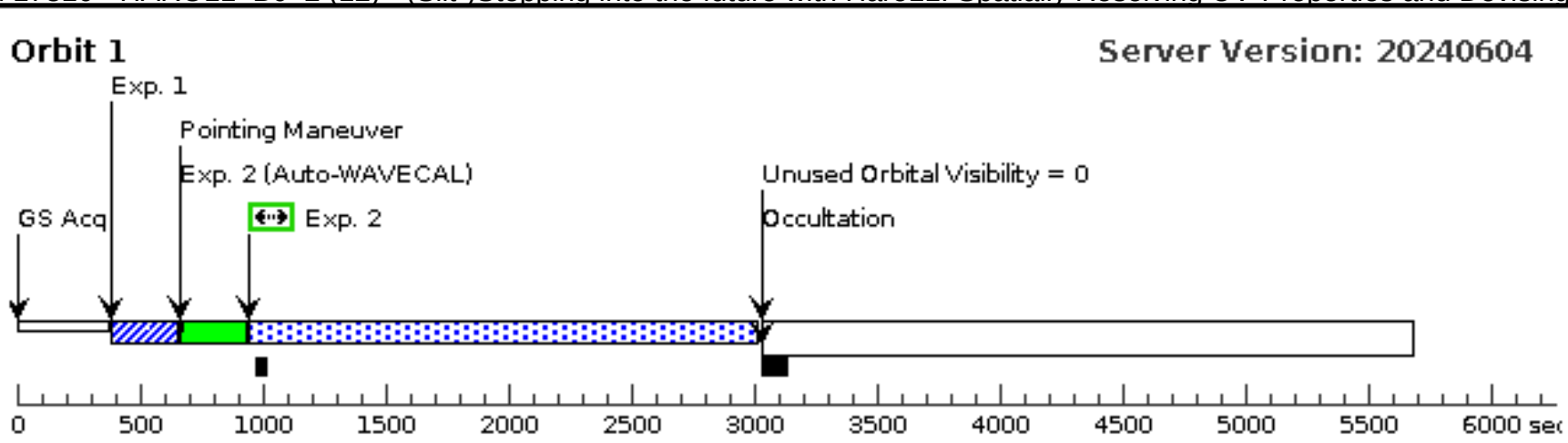
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

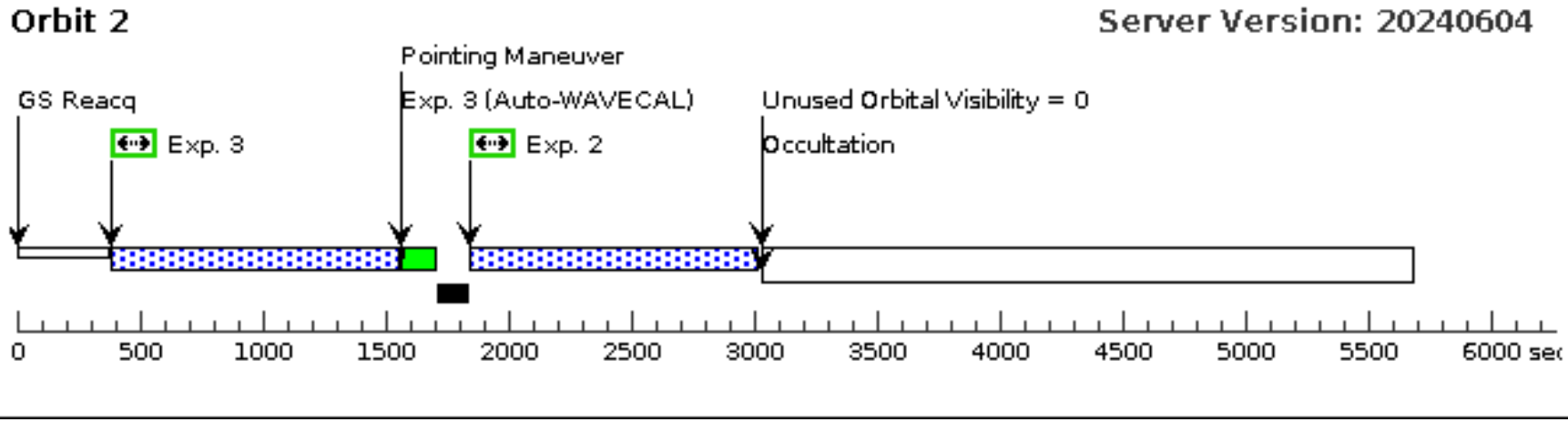
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

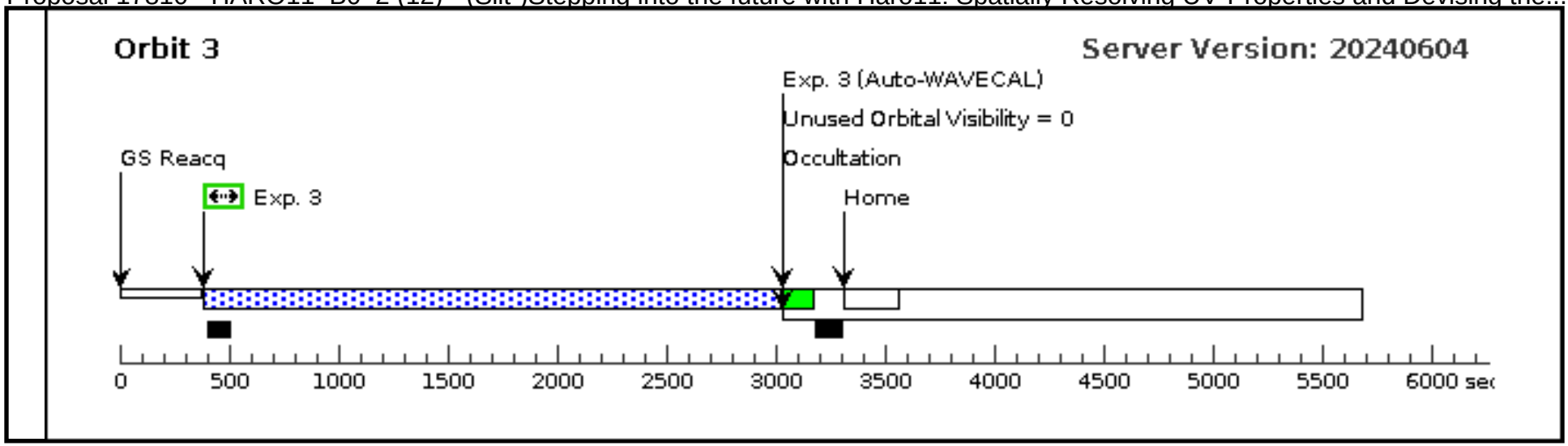
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_B0_ACQ2 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_B0_G140M_3 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.9,null	Pattern 1, Exps 2-3 in HARO11_B0_2 (12) (1)	1000 Secs (3211 Secs)	
								[==>2055.0 Secs (Pattern 1)]	***[1]***
								[==>1156.0 Secs (Pattern 2)]	***[2]***
3	haro11_B0_G140M_4 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.9,null	Pattern 1, Exps 2-3 in HARO11_B0_2 (12) (1)	1000 Secs (3780 Secs)	
								[==>1156.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Exp. 3 (Auto-WAVECAL)
Unused Orbital Visibility = 0
Occultation
GS Reacq
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_B0_3 (13) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(HARO11_B0_3 (13)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2-3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

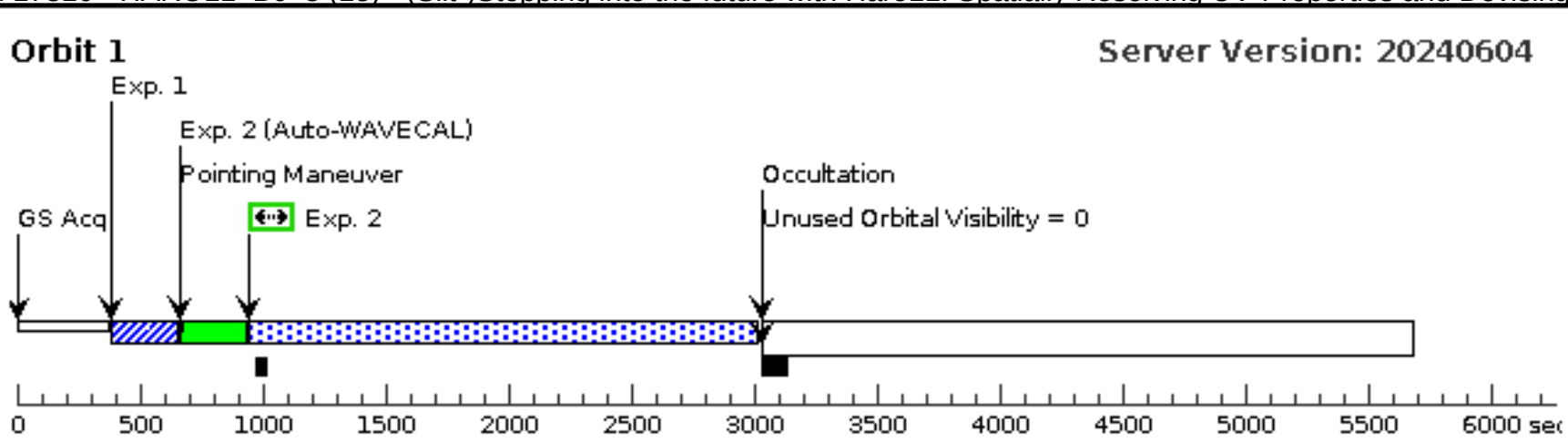
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

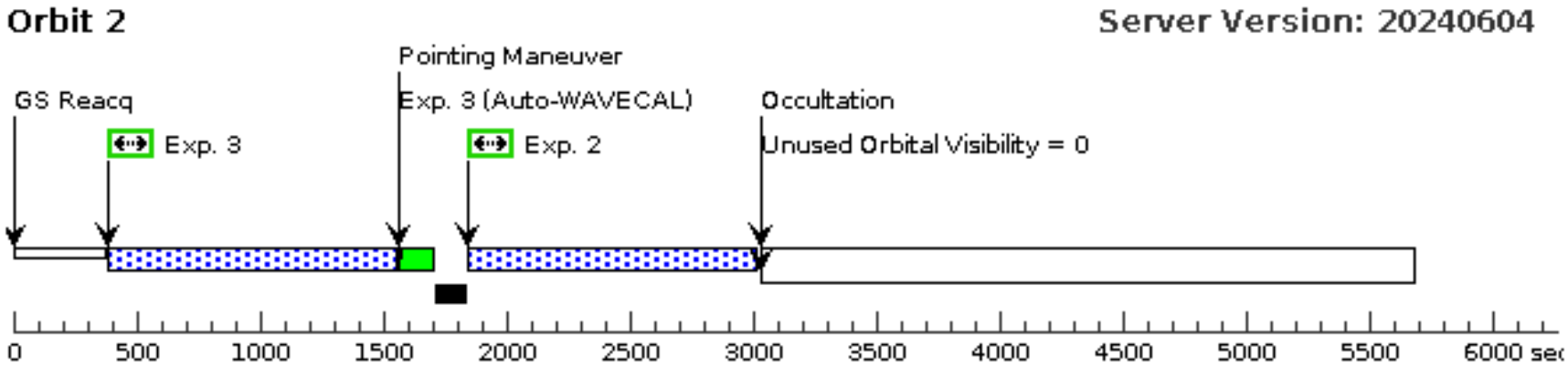
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

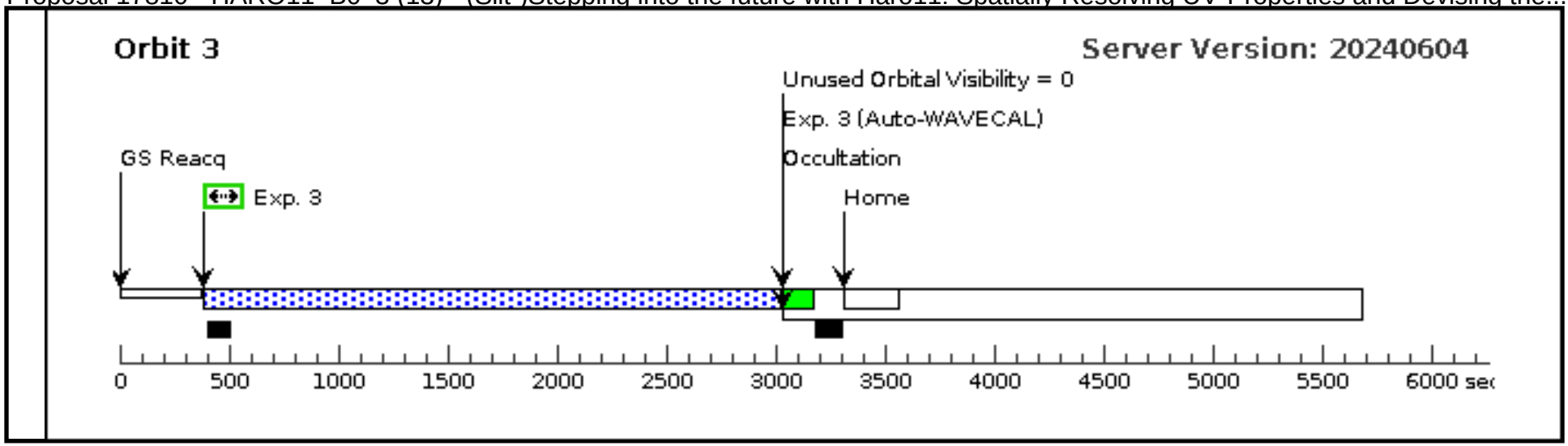
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_B0_ACQ3 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_B0_G140M_5 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.9,null	Pattern 1, Exps 2-3 in HARO11_B0_3 (13) (1)	1000 Secs (3211 Secs)	
								[==>2055.0 Secs (Pattern 1)]	***[1]***
								[==>1156.0 Secs (Pattern 2)]	***[2]***
3	haro11_B0_G140M_6 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.9,null	Pattern 1, Exps 2-3 in HARO11_B0_3 (13) (1)	1000 Secs (3780 Secs)	
								[==>1156.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Unused Orbital Visibility = 0
Exp. 3 (Auto-WAVECAL)
Occultation
GS Reacq
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_B0_4 (14) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(HARO11_B0_4 (14)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2-3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

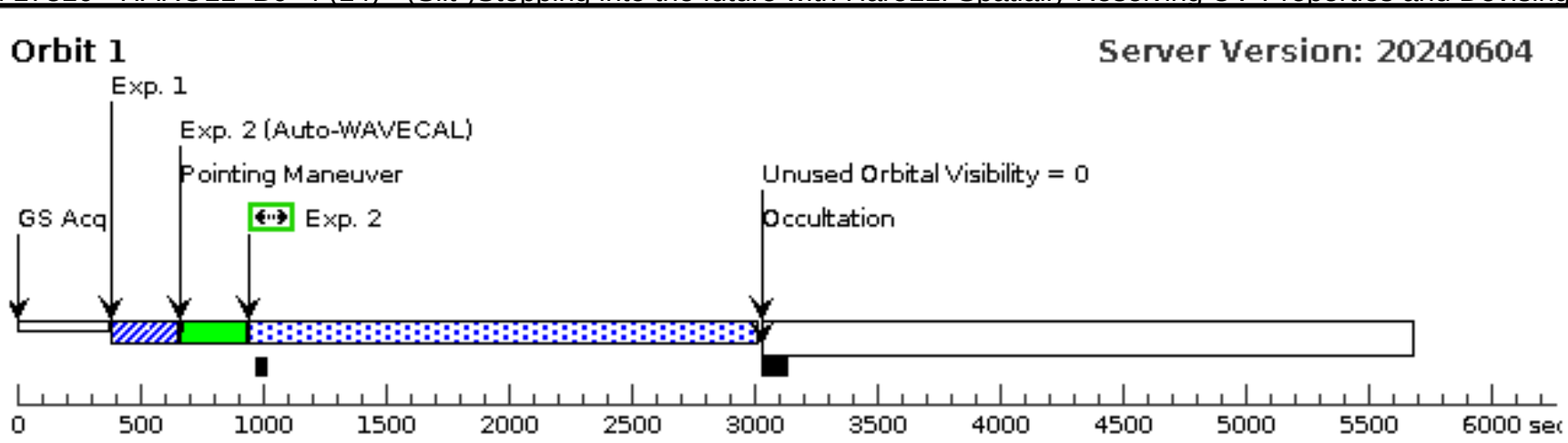
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

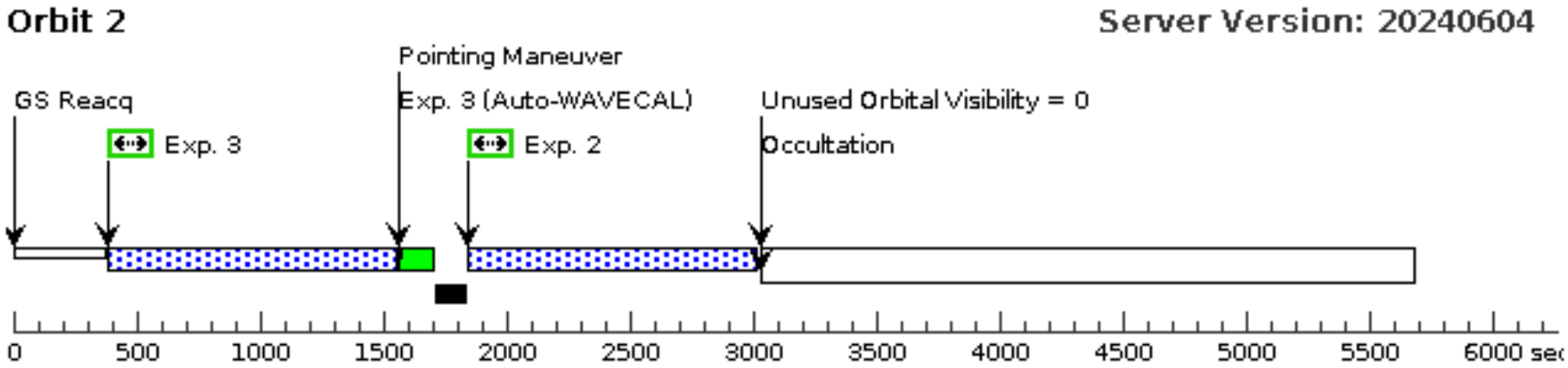
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

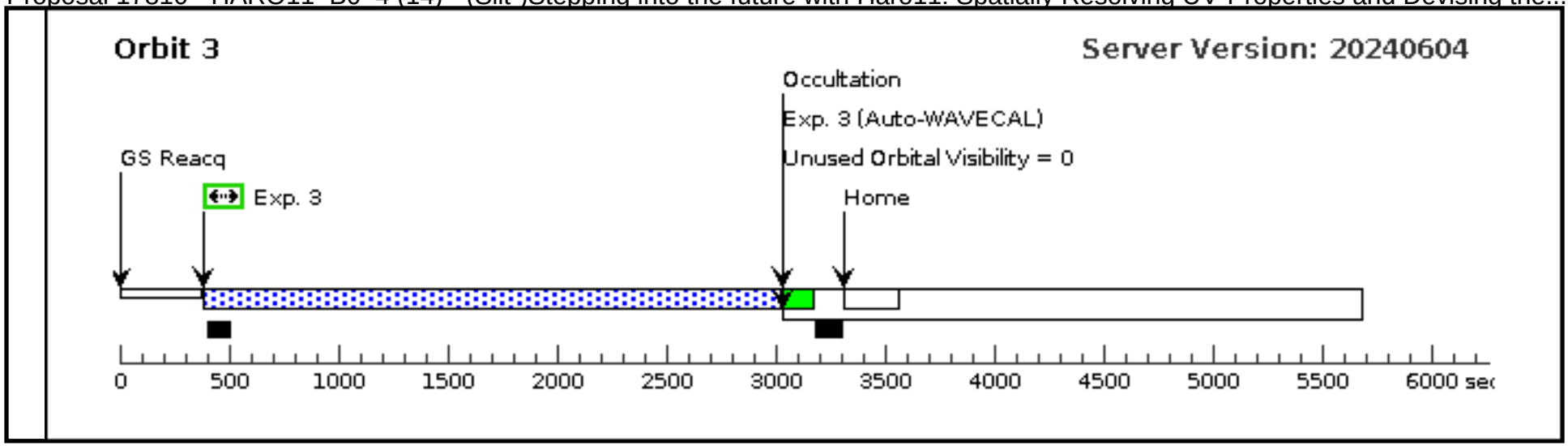
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_B0_ACQ4 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_B0_G140M_7 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.9,null	Pattern 1, Exps 2-3 in HARO11_B0_4 (14) (1)	1000 Secs (3211 Secs)	
								[==>2055.0 Secs (Pattern 1)]	***[1]***
								[==>1156.0 Secs (Pattern 2)]	***[2]***
3	haro11_B0_G140M_8 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.9,null	Pattern 1, Exps 2-3 in HARO11_B0_4 (14) (1)	1000 Secs (3780 Secs)	
								[==>1156.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Occultation
Exp. 3 (Auto-WAVECAL)
Unused Orbital Visibility = 0
GS Reacq
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, Haro11_B-1_1 (15) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(Haro11_B-1_1 (15)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

(Haro11_B-1_1 (15)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2), (3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

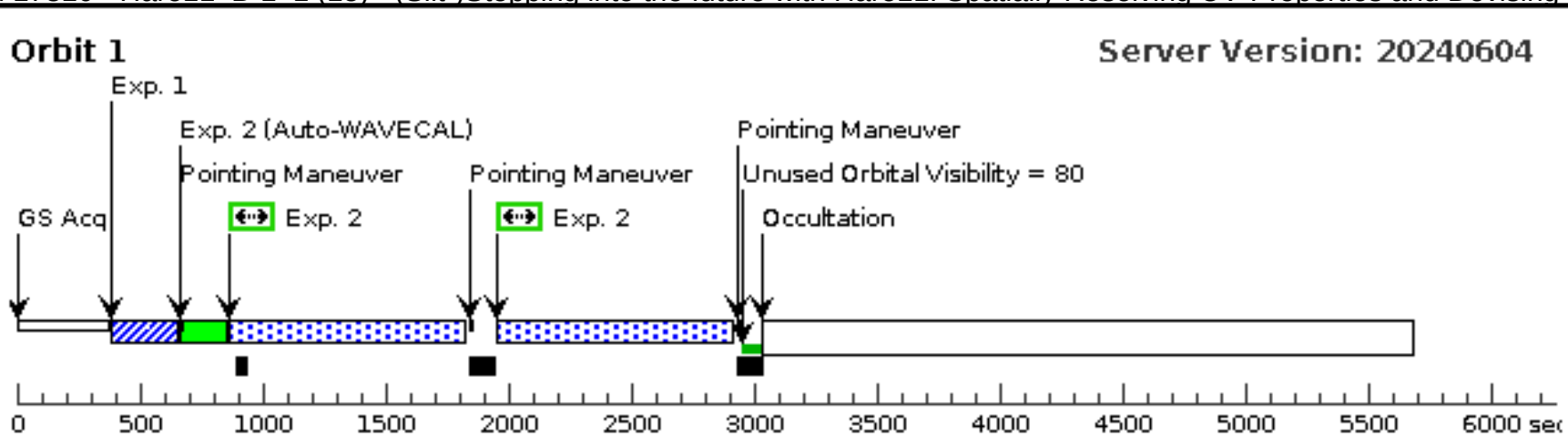
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

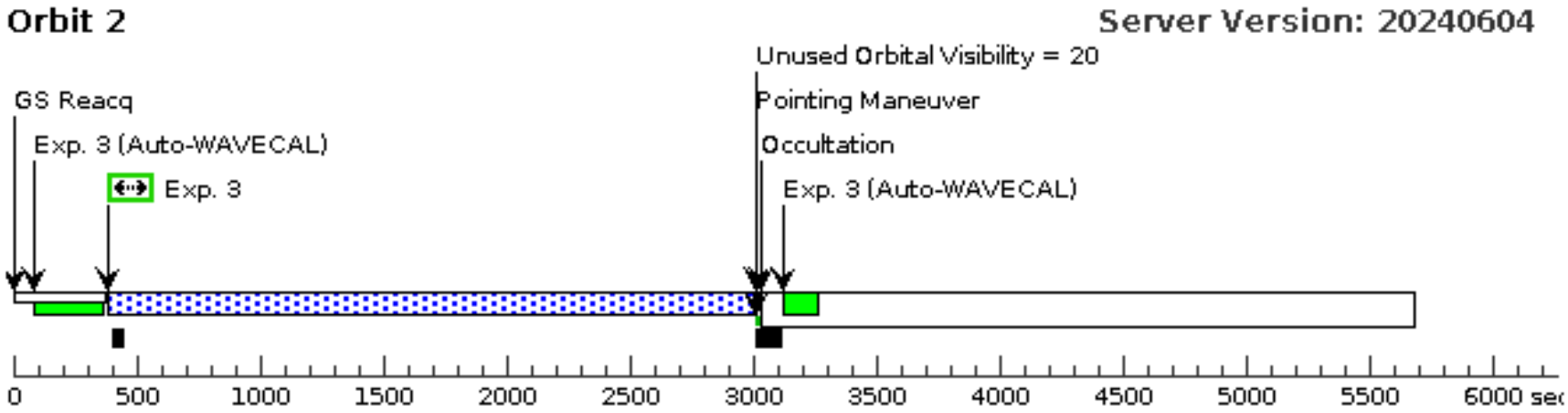
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

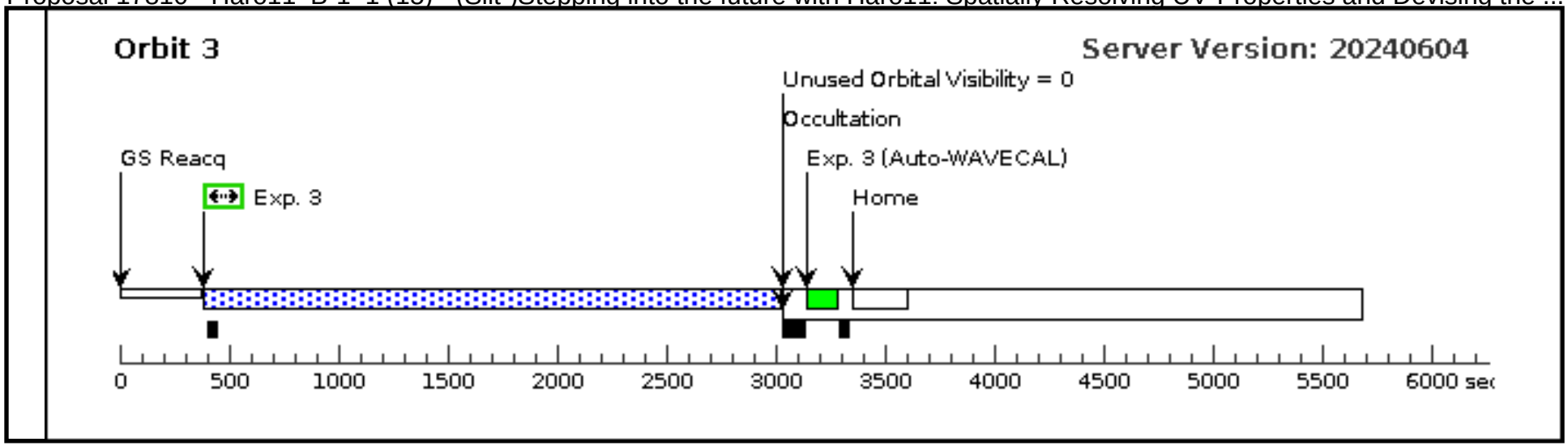
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_B-1_ACQ1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR	CHECKBOX=5; DIFFUSE-CENTER =FLUX-CENTROID ; ACQTYPE=DIFFUSE			10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_B-1_G140L_1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A		POS TARG 1.7,null	Pattern 1, Exps 2-2 in Haro11_B-1_1 (15) (1)	650 Secs (1896 Secs)	
								[==>948.0 Secs (Pattern 1)]	***[1]***
								[==>948.0 Secs (Pattern 2)]	
3	haro11_B-1_G140M_1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.7,null	Pattern 1, Exps 3-3 in Haro11_B-1_1 (15) (1)	2000 Secs (5228 Secs)	
								[==>2604.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Unused Orbital Visibility = 0
Occultation
GS Reacq
Exp. 3
Exp. 3 (Auto-WAVECAL)
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_B-1_2 (16) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(HARO11_B-1_2 (16)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2-3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

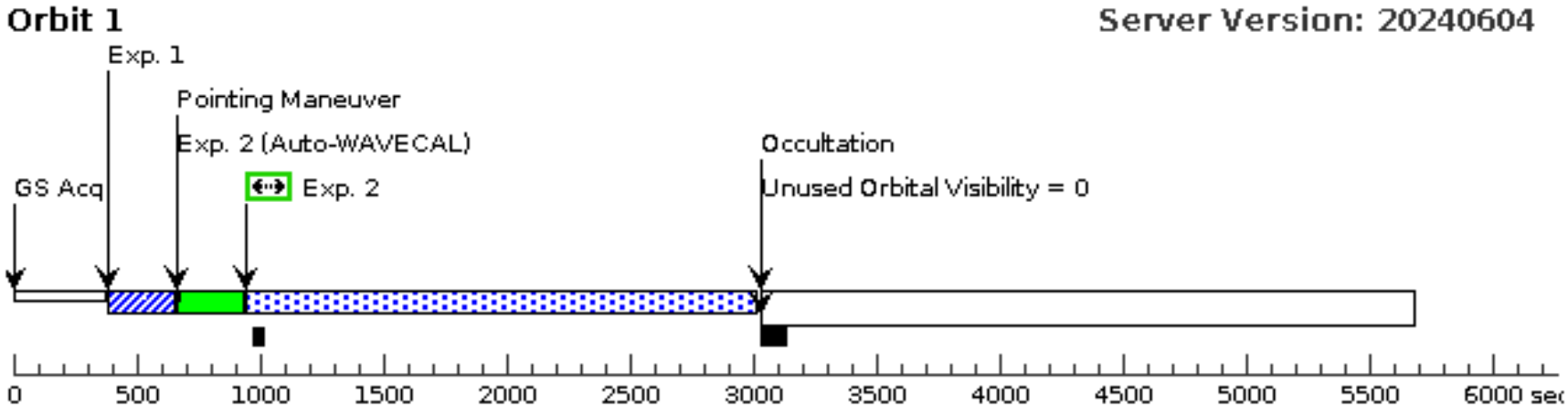
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

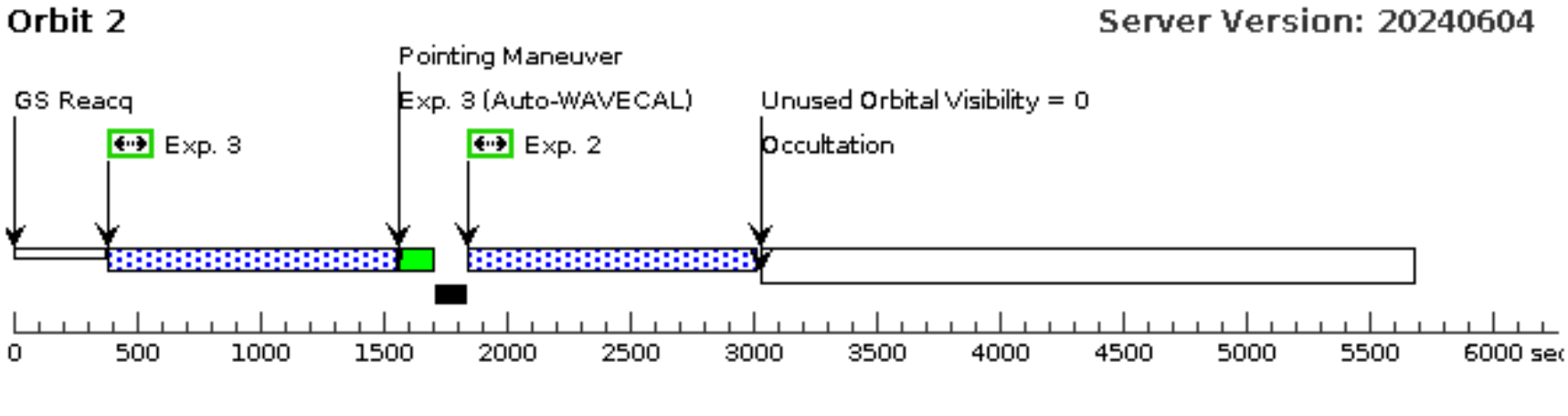
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

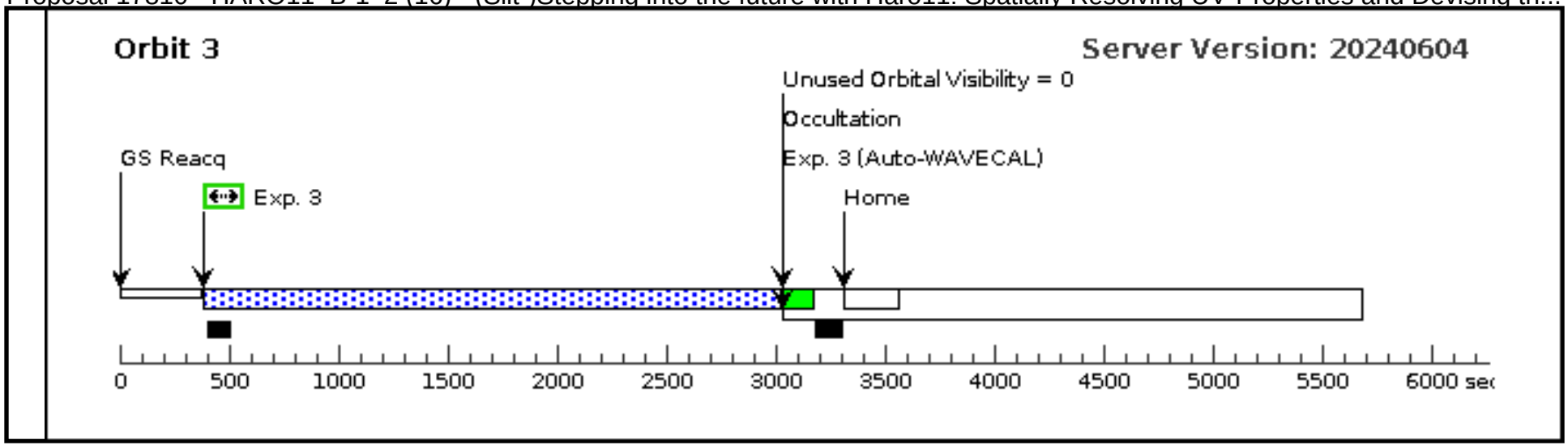
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_B-1_ACQ2 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_B0_G140M_3 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.7,null	Pattern 1, Exps 2-3 in HARO11_B-1_2 (16) (1)	1000 Secs (3211 Secs)	
								[==>2055.0 Secs (Pattern 1)]	***[1]***
								[==>1156.0 Secs (Pattern 2)]	***[2]***
3	haro11_B0_G140M_4 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.7,null	Pattern 1, Exps 2-3 in HARO11_B-1_2 (16) (1)	1000 Secs (3780 Secs)	
								[==>1156.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Unused Orbital Visibility = 0
Occultation
Exp. 3 (Auto-WAVECAL)
GS Reacq
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_B-1_3 (17) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(HARO11_B-1_3 (17)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2-3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

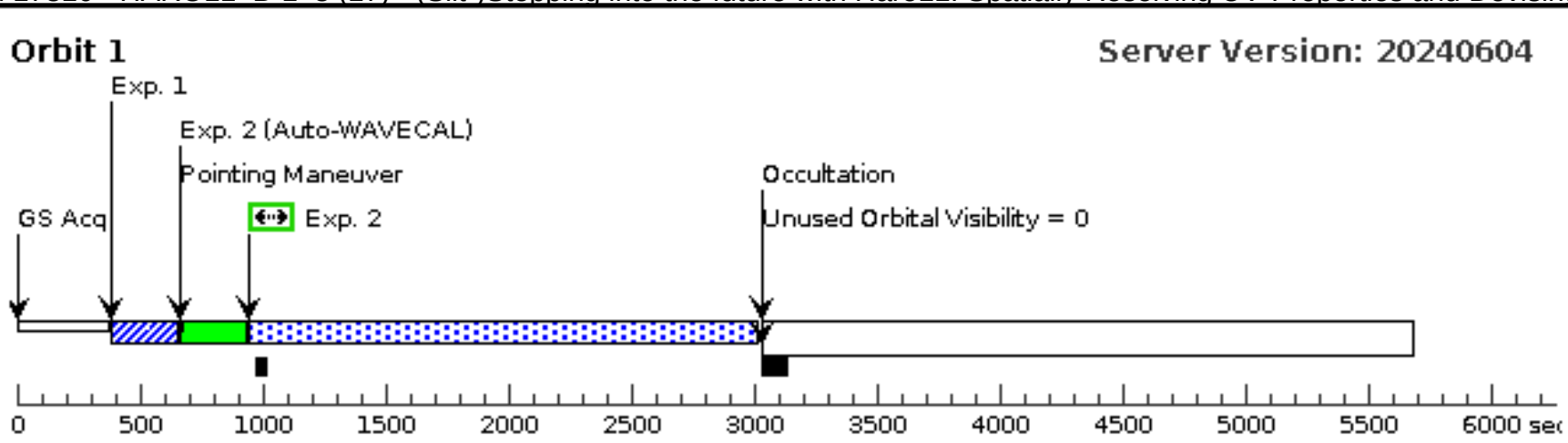
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

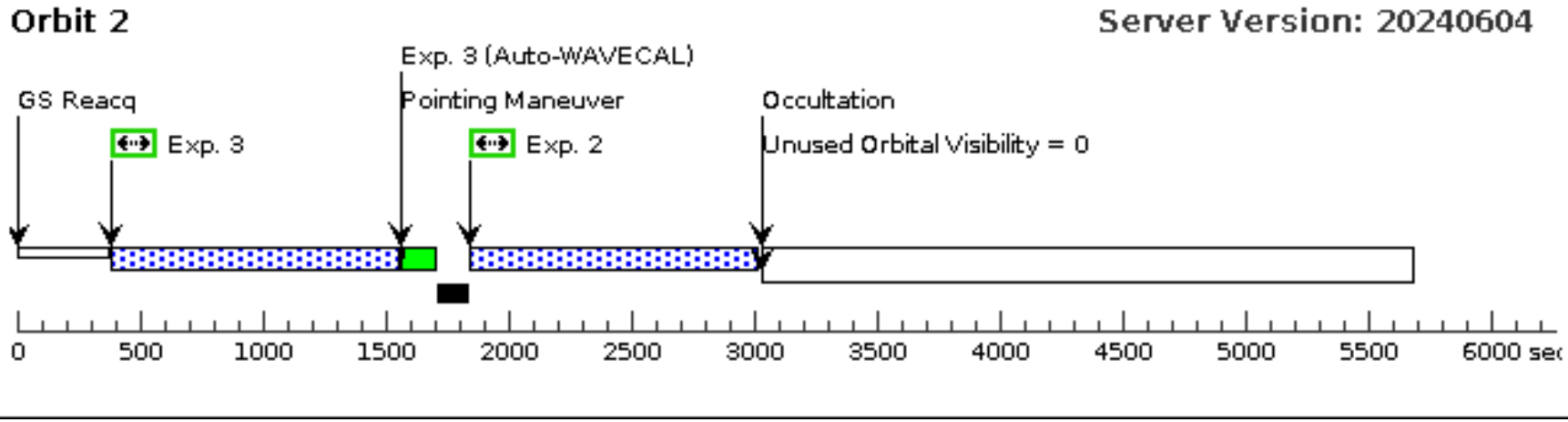
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

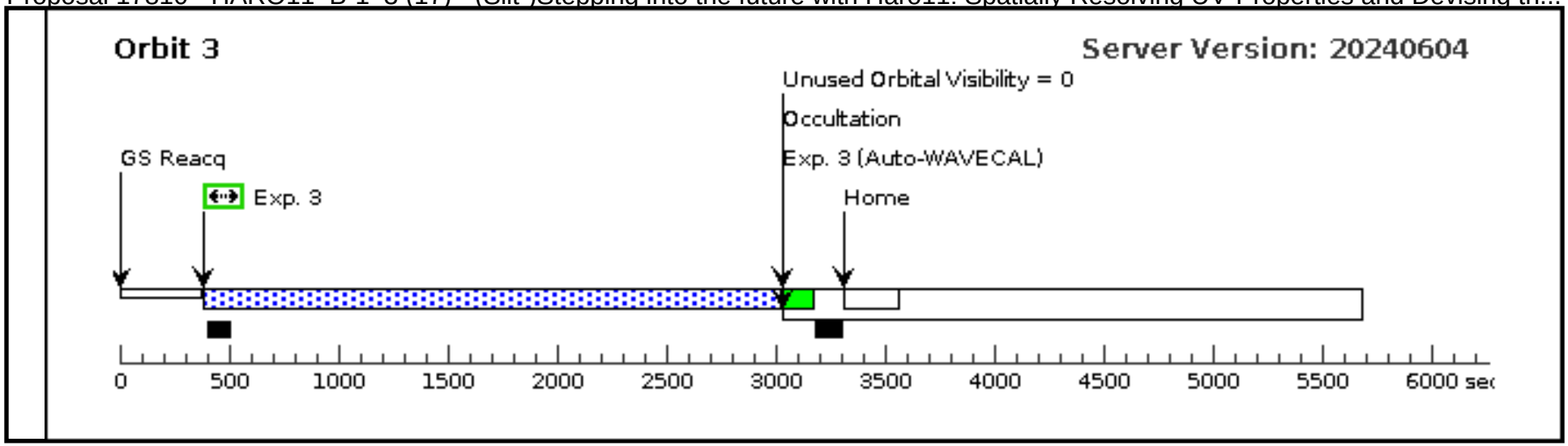
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_B-1_ACQ3 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_B0_G140M_5 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.7,null	Pattern 1, Exps 2-3 in HARO11_B-1_3 (17) (1)	1000 Secs (3211 Secs)	
								[==>2055.0 Secs (Pattern 1)]	***[1]***
								[==>1156.0 Secs (Pattern 2)]	***[2]***
3	haro11_B0_G140M_6 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.7,null	Pattern 1, Exps 2-3 in HARO11_B-1_3 (17) (1)	1000 Secs (3780 Secs)	
								[==>1156.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Unused Orbital Visibility = 0
Occultation
Exp. 3 (Auto-WAVECAL)
GS Reacq
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_B-1_4 (18) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(HARO11_B-1_4 (18)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2-3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

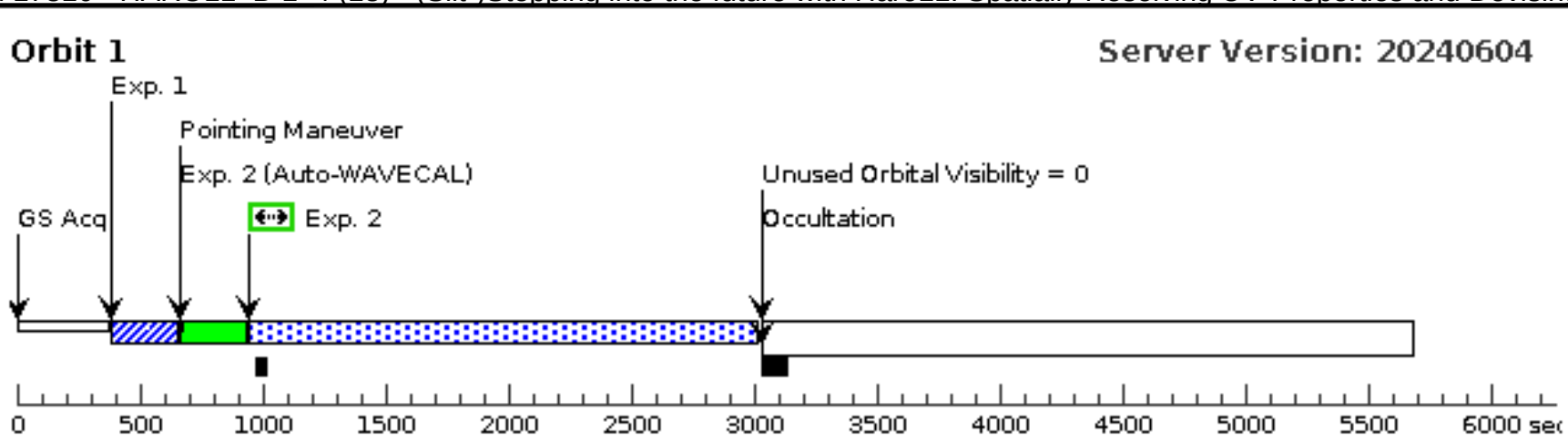
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

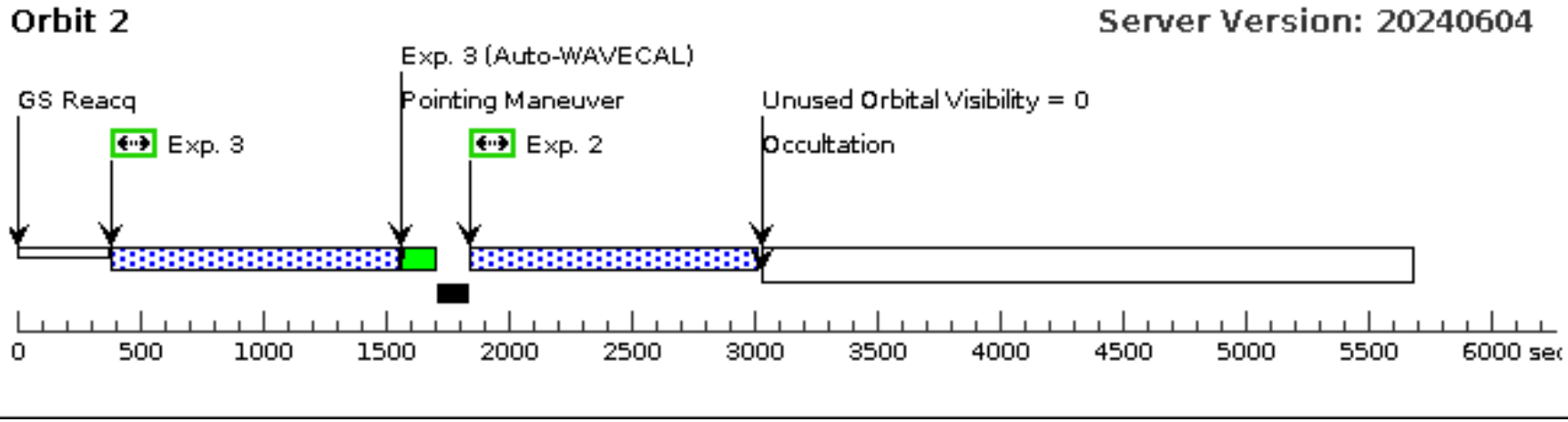
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

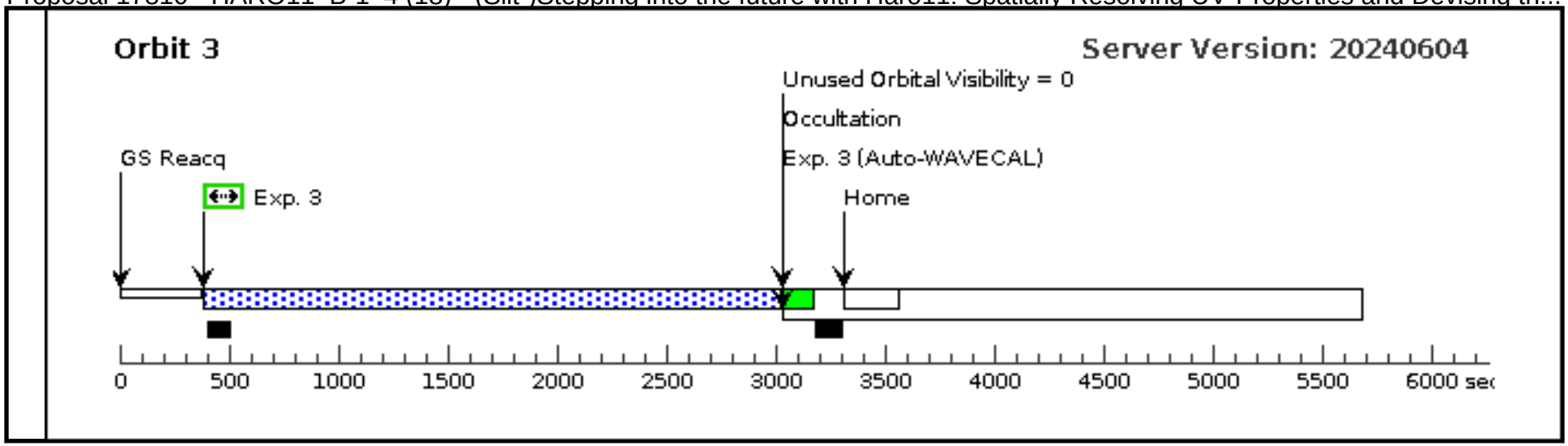
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_B-1_ACQ4 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_B-1_G140M_7 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.7,null	Pattern 1, Exps 2-3 in HARO11_B-1_4 (18) (1)	1000 Secs (3211 Secs)	
								[==>2055.0 Secs (Pattern 1)]	***[1]***
								[==>1156.0 Secs (Pattern 2)]	***[2]***
3	haro11_B-1_G140M_8 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 1.7,null	Pattern 1, Exps 2-3 in HARO11_B-1_4 (18) (1)	1000 Secs (3780 Secs)	
								[==>1156.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Unused Orbital Visibility = 0
Occultation
Exp. 3 (Auto-WAVECAL)
GS Reacq
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, Haro11_B+1_1 (19) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(Haro11_B+1_1 (19)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

(Haro11_B+1_1 (19)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2), (3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

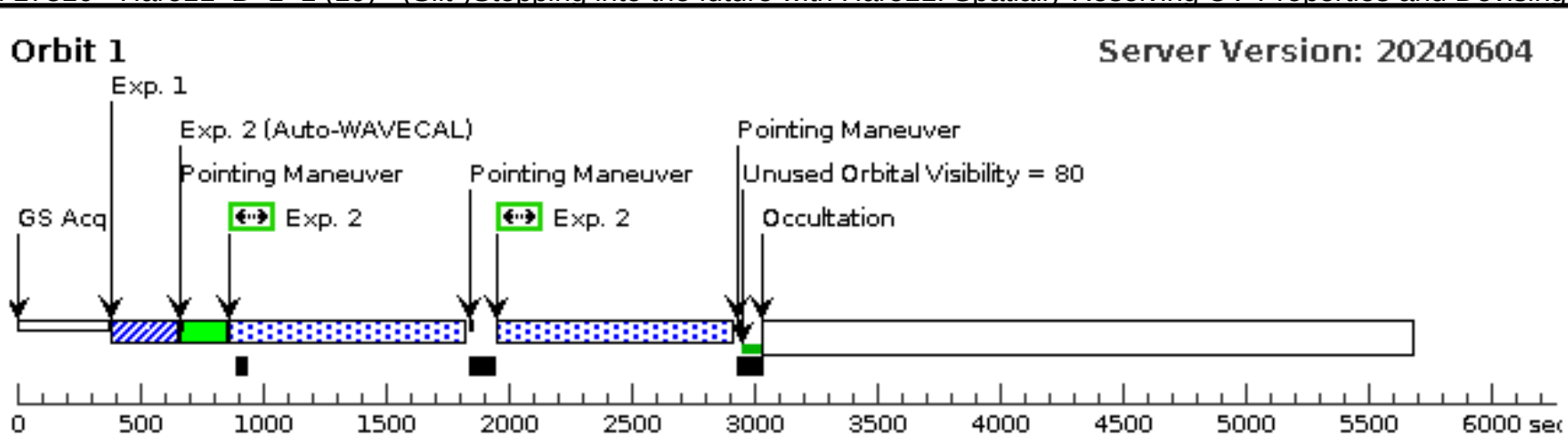
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

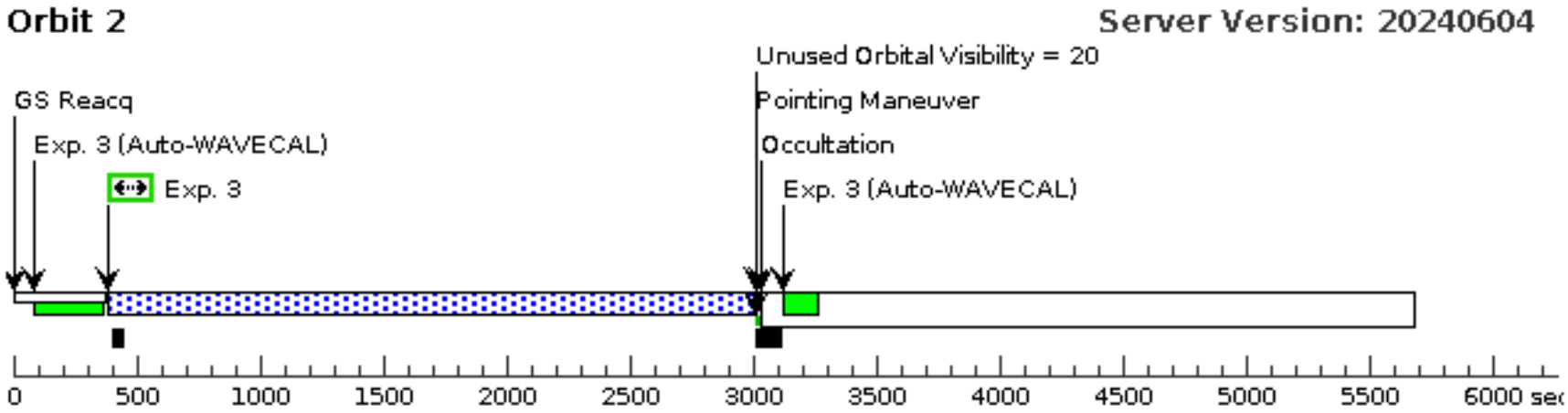
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

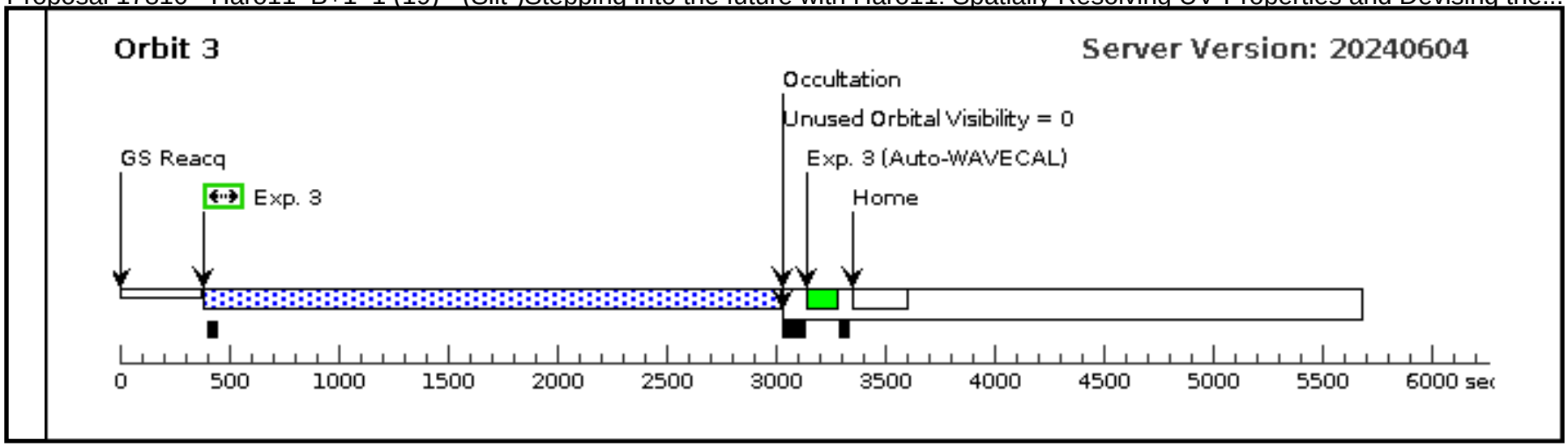
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_B+1_ACQ1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR	CHECKBOX=5; DIFFUSE-CENTER =FLUX-CENTROID ; ACQTYPE=DIFFUSE			10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_B+1_G140L_1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A		POS TARG 2.1,null	Pattern 1, Exps 2-2 in Haro11_B+1_1 (19) (1)	650 Secs (1896 Secs)	
								[==>948.0 Secs (Pattern 1)] *[==>948.0 Secs (Pattern 2)]*	***[1]***
3	haro11_B+1_G140M_1 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 2.1,null	Pattern 1, Exps 3-3 in Haro11_B+1_1 (19) (1)	2000 Secs (5228 Secs)	
								[==>2604.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Occultation
Unused Orbital Visibility = 0
GS Reacq
Exp. 3 (Auto-WAVECAL)
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_B+1_2 (20) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(HARO11_B+1_2 (20)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2-3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

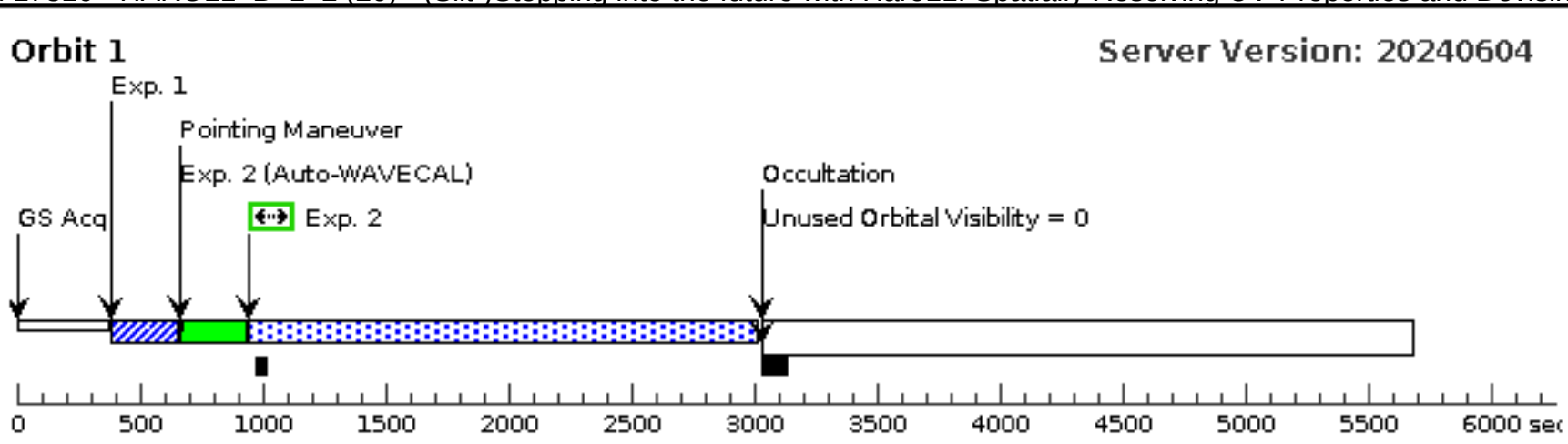
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

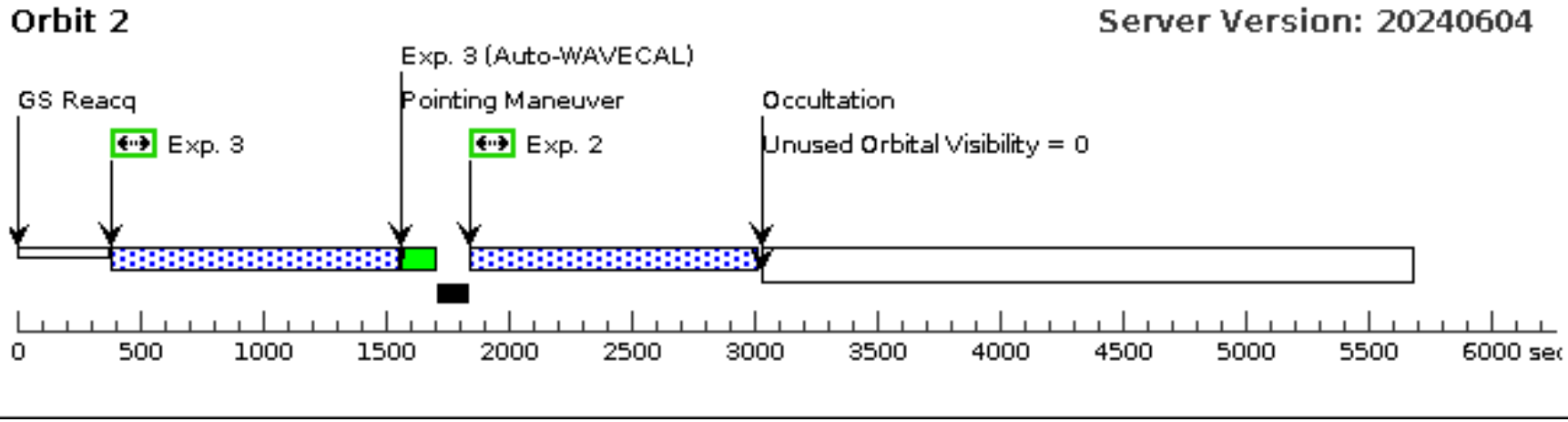
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

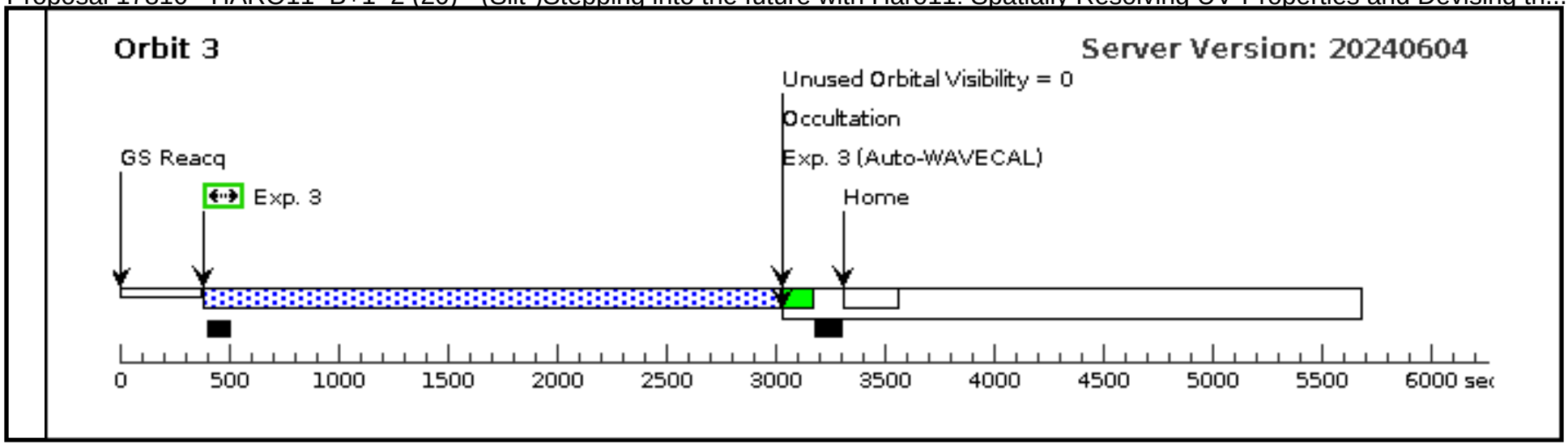
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_B+1_ACQ2 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_B+1_G140M_3 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 2.1,null	Pattern 1, Exps 2-3 in HARO11_B+1_2 (20) (1)	1000 Secs (3211 Secs)	
								[==>2055.0 Secs (Pattern 1)]	***[1]***
								[==>1156.0 Secs (Pattern 2)]	***[2]***
3	haro11_B+1_G140M_4 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 2.1,null	Pattern 1, Exps 2-3 in HARO11_B+1_2 (20) (1)	1000 Secs (3780 Secs)	
								[==>1156.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Unused Orbital Visibility = 0
Occultation
Exp. 3 (Auto-WAVECAL)
GS Reacq
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_B+1_3 (21) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(HARO11_B+1_3 (21)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2-3)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

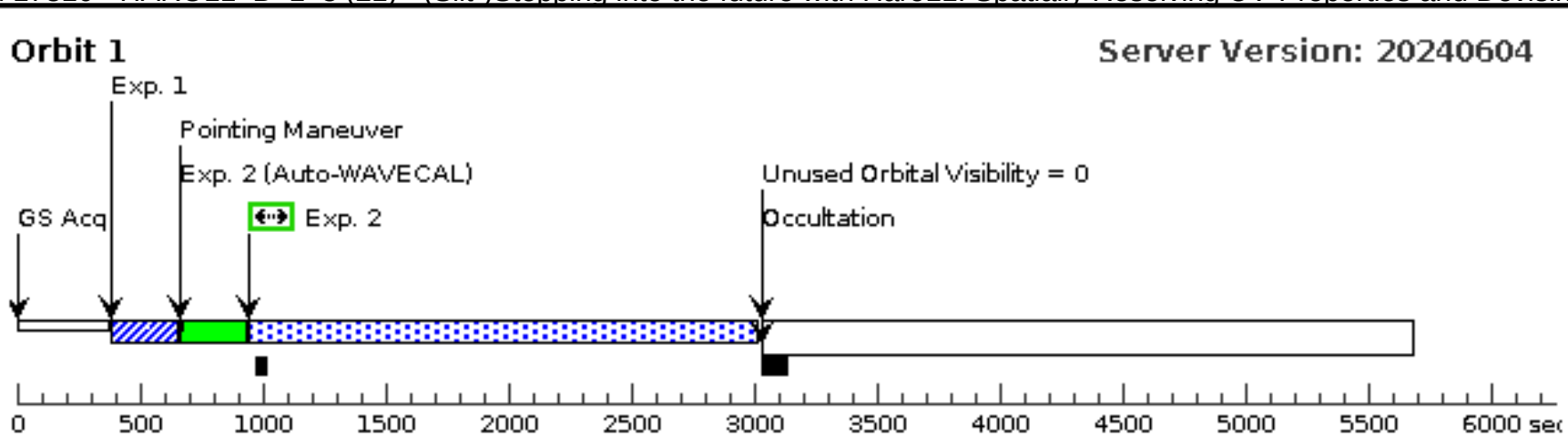
This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

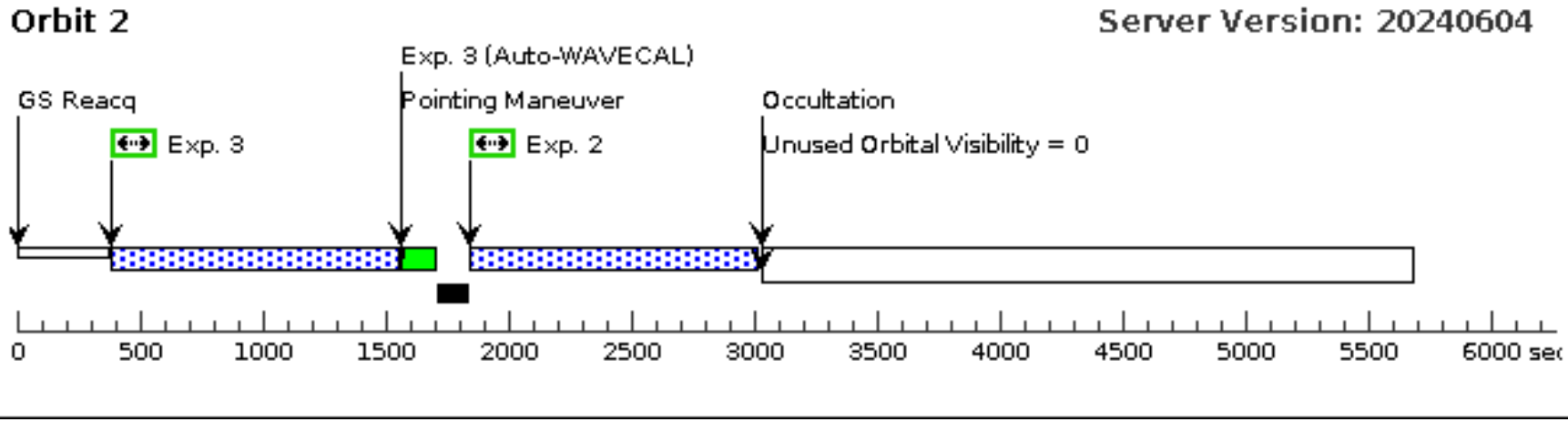
Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

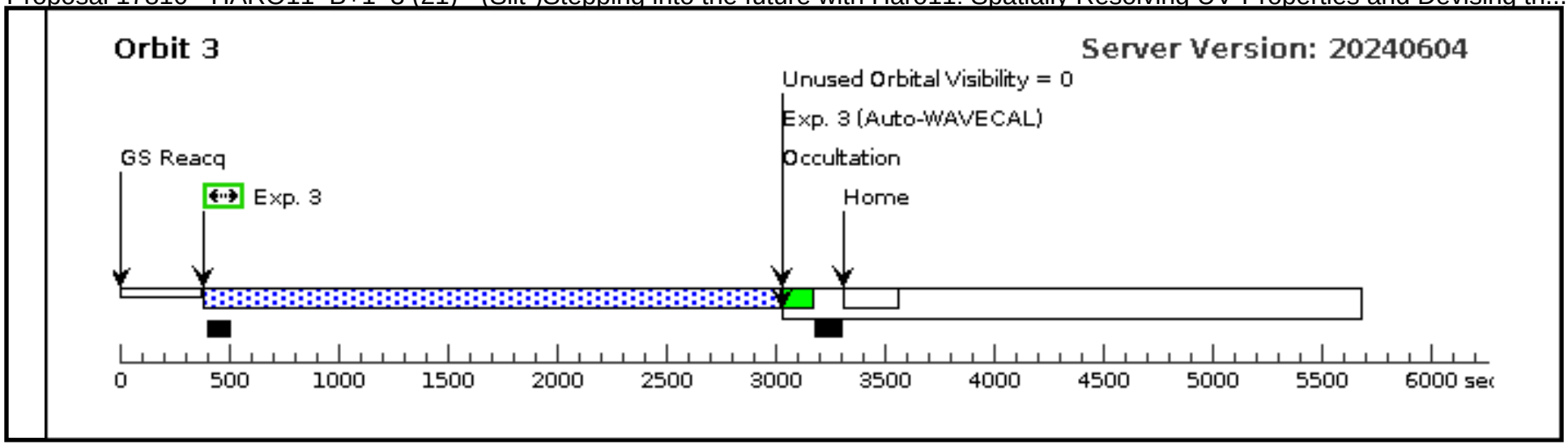
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_B+1_ACQ3 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_B+1_G140M_5 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 2.1,null	Pattern 1, Exps 2-3 in HARO11_B+1_3 (21) (1)	1000 Secs (3211 Secs)	
								[==>2055.0 Secs (Pattern 1)]	***[1]***
								[==>1156.0 Secs (Pattern 2)]	***[2]***
3	haro11_B+1_G140M_6 (STIS.sp.19 11782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 2.1,null	Pattern 1, Exps 2-3 in HARO11_B+1_3 (21) (1)	1000 Secs (3780 Secs)	
								[==>1156.0 Secs (Pattern 1)]	***[2]***
								[==>2624.0 Secs (Pattern 2)]	***[3]***

Orbit Structure






Orbit 3
Server Version: 20240604
Unused Orbital Visibility = 0
Exp. 3 (Auto-WAVECAL)
Occultation
GS Reacq
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17810, HARO11_B+1_4 (22) Wed Aug 14 17:03:01 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SAME ORIENT AS 01

Diagnostics

(HARO11_B+1_4 (22)) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG		(2)
	Purpose=DITHER	Pattern Orientation=90.0		
	Number Of Points=2	Angle Between Sides=		
	Point Spacing=0.2706	Center Pattern=false		
	Line Spacing=			

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HARO-11-C	RA: 00 36 52.7023 (9.2195929d)	Radial Velocity: 6126 km/sec	V=15.99+/-0.05	Reference Frame: ICRS
		Dec: -33 33 17.27 (-33.55480d)		FUV=1.93E-14 erg/s/cm2	
		Equinox: J2000			

Comments: V-band magnitude refers to total value in a 2.5 arcsec aperture (measured in HST/ACS/WFC/F550M image).
FUV refers to flux at 1530 Angstrom in 2.5 arcsec COS aperture (measured in HST/ACS/SBC/F140LP image).

The target is not a true point source and therefore ETC estimates are about a factor of 8 lower. The target has been previously observed with COS/130M and G160M and STIS/G140M, and so is safe to observe.

This target is very compact, in an unconfused region of the galaxy, and hence ideal for target acquisition.

Coordinates were taken from HAP product hst_13702_03_wfc3_uvis_f336w_iclm03_drc.fits, which has been aligned to the Gaia reference frame.
Category=EXT-CLUSTER
Description=[KNOT, STAR FORMING REGION]
Extended=YES

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Haro11_B+1_ACQ4 (STIS.sp.1911782)	(1) HARO-11-C	STIS/CCD, ACQ, F28X50LP	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	haro11_B+1_G140M_7 (STIS.sp.1911782)	(1) HARO-11-C	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1567 A		POS TARG 2.1,null	Pattern 1, Exps 2-2 in HARO11_B+1_4 (22) (1)	1000 Secs (4659 Secs)	
								[==>2035.0 Secs (Pattern 1)]	***[1]***
								[==>2624.0 Secs (Pattern 2)]	***[2]***

Orbit Structure