



18375 - Tracing Gas Flows Locally to Understand Gas Flows Globally

Cycle: 34, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) HD-165582 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:17.0	yes
02	(2) HD-165955 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:17.0	yes
03	(3) HD-163899 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:18.0	yes
04	(4) HD-177566 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:18.0	yes
05	(5) HD-163758 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:18.0	yes

Proposal 18375 (STScI Edit Number: 0, Created: Wednesday, August 19, 2026, 9:01:24AM Eastern Standard Time) - Overview

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
06	(6) V-V1297-SCO WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:19.0	yes
07	(7) HD-152245 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:19.0	yes
08	(8) HD-152249 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:19.0	yes
09	(9) HD-152424 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:20.0	yes
10	(10) HD-151805 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:20.0	yes
11	(11) HD-153262 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:20.0	yes
12	(12) HD-148422 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:21.0	yes
13	(13) HD-173219 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:21.0	yes
14	(14) HD-178487 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:21.0	yes
15	(15) HD-160641 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:22.0	yes
16	(16) HD-165246 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:22.0	yes
17	(17) HD-168750 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:22.0	yes
18	(18) HD-168941 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:23.0	yes
19	(19) HD-178370 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:23.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
20	(20) HD-173502 WAVE	STIS/CCD STIS/FUV-MAMA	1	19-Aug-2026 10:01:24.0	yes

20 Total Orbits Used

ABSTRACT

The Milky Way provides a unique opportunity to study how gas, metals, and dust flow into and out of galaxies. Astronomers do not yet know where or how local gas flows connect up and become collimated into large scale outflows. By targeting the disk-halo interface up to $z \sim 1$ kpc, this proposal probes a key region where this transition happens and local flows becomes global. We propose HST/STIS E140H echelle observations of 20 Milky Way inner-Galaxy OB stars located within the disk-halo interface spanning a range of Galactic latitudes $b = \pm 20$ degrees, and inside the Galactic tangent points ($l < \sim \pm 30$ degrees). These observations will be combined with HST/STIS E140H archival spectra of 2 inner-Galaxy sight lines that meet the same regional criteria. The sample stars are chosen because they form pairs of sight lines which match very closely in longitude (< 0.68 degrees) and are at comparable distances, but fall at different latitudes. Thus, the pairs create a vertical slice in latitude extending from the disk through the disk-halo interface at a single longitude through 10 places in the inner-Galaxy, divided evenly between the inner-Galactic quadrants I and IV. High-resolution stellar absorption-line spectroscopy of these close pairs is required in order to precisely trace kinematic signatures of Local outflows from the disk, through the disk-halo interface, and into the lower circumgalactic medium.

OBSERVING DESCRIPTION

We will observe 20 Galactic OB stars with STIS/E140H. This description will be updated with appropriate details in the next iteration.

Proposal 18375 - HD165582 (01) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Visit	Proposal 18375, HD165582 (01)										Wed Aug 19 14:01:24 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: (none)										
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	HD-165582	RA: 18 08 7.5309 (272.0313787d) Dec: -34 34 32.36 (-34.57566d) Equinox: J2000		Proper Motion RA: -0.511 mas/yr Proper Motion Dec: -3.278999906797253 mas/yr Parallax: 3.815E-4" Epoch of Position: 2000		V=9.74+/-0.14 U = 8.58; B = 9.56; IUE Flux = 5.00E-12 erg/cm^2/s/A at 1350 A		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[B0-B2 III-I]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ (STIS.ta.236 6848)	(1) HD-165582	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.2 Secs (0.2 Secs) [==>]	[1]	
	Comments: ACQ should achieve SNR of 342 with 47,046 e- in the brightest pixel at 0.2s with F28X50LP. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 9.74, with E(B-V) = 0.158.										
	2	E140H-c134 3 (STIS.sp.23 26722)	(1) HD-165582	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs) [==>1800.0 Secs]	[1]	
	Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation										
	3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]	[1]	
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation											
Orbit Structure	Orbit 1 Server Version: 20260618 Unused Orbital Visibility = 382 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec										

Proposal 18375 - HD165955 (02) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Visit	Proposal 18375, HD165955 (02)										Wed Aug 19 14:01:24 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: (none)										
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(2)	HD-165955	RA: 18 09 57.9702 (272.4915425d) Dec: -34 52 7.33 (-34.86870d) Equinox: J2000	Proper Motion RA: 32.462 mas/yr Proper Motion Dec: -2.9209999411250465 mas/yr Parallax: 6.734999999999999E-4" Epoch of Position: 2000	V=9.59+/-0.25 U = 8.3; B = 9.3; IUE Flux = 1.2 5E-11 erg/cm^2/s/A at 1350A	Reference Frame: ICRS					
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[B0-B2 III-I]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ (STIS.ta.236 6853)	(2) HD-165955	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.2 Secs (0.2 Secs) [==>]	[1]	
	Comments: ACQ should achieve SNR of 363 with 53,089 e- in the brightest pixel at 0.2s with F28X50LP. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 9.59, with E(B-V) = 0.108.										
	2	E140H-c134 3 (STIS.sp.23 26740)	(2) HD-165955	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs) [==>]	[1]	
Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation											
3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]	[1]		
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation											
Orbit Structure	Orbit 1 Server Version: 20260618 Unused Orbital Visibility = 382 Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation GS Acq										

Proposal 18375 - HD163899 (03) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Visit	Proposal 18375, HD163899 (03)										Wed Aug 19 14:01:24 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: (none)										
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(3)	HD-163899	RA: 17 59 56.3484 (269.9847850d) Dec: -33 53 26.96 (-33.89082d) Equinox: J2000	Proper Motion RA: -1.179 mas/yr Proper Motion Dec: -2.6040000875582336 mas/yr Parallax: 4.386E-4" Epoch of Position: 2000		V=8.31+/-0.99 U = 7.88; B = 8.51; IUE Flux = 4.00E-12 erg/cm^2/s/A at 1350 A		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[B0-B2 III-I]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ (STIS.ta.236 6857)	(3) HD-163899	STIS/CCD, ACQ, F28X50OII	MIRROR	ACQTYPE=POINT			3 Secs (3 Secs) [==>]	[1]	
	Comments: ACQ should achieve SNR of 323 with 59,345 e- in the brightest pixel at 3.0s with F28X50OII. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 8.31, with E(B-V) = 0.201.										
	2	E140H-c134 3 (STIS.sp.23 26746)	(3) HD-163899	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs) [==>]	[1]	
	Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation										
Orbit Structure	3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]	[1]	
	Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation										
	Orbit 1 Server Version: 20260618 Unused Orbital Visibility = 339 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec										

Proposal 18375 - HD177566 (04) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Wed Aug 19 14:01:24 GMT 2026

Visit	Proposal 18375, HD177566 (04)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA									
	Special Requirements: (none)									
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	HD-177566	RA: 19 07 7.8864 (286.7828600d) Dec: -41 43 16.01 (-41.72111d) Equinox: J2000	Proper Motion RA: -2.232 mas/yr Proper Motion Dec: -42.70600006748282 mas/yr Parallax: 8.592E-4" Epoch of Position: 2000	V=10.17 U = 9.0; B = 9.97; IUE Flux = 1.75E-11 erg/cm^2/s/A at 1350A	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[B3-B5 III-I, B6-B9.5 III-I]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.236 6859)	(4) HD-177566	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.3 Secs (0.3 Secs)	
									[==>]	[1]
	Comments: ACQ should achieve SNR of 344 with 47,509 e- in the brightest pixel at 0.3s with F28X50LP. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 10.17, with E(B-V) = 0.									
	2	E140H-c134 3 (STIS.sp.23 26780)	(4) HD-177566	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs)	
									[==>]	[1]
Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation										
3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A					[==>]	[1]
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation										
Orbit Structure	Orbit 1									
	Server Version: 20260618									
Unused Orbital Visibility = 396										

Proposal 18375 - HD163758 (05) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Visit	Proposal 18375, HD163758 (05)										Wed Aug 19 14:01:24 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: (none)											
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(5)	HD-163758	RA: 17 59 28.3669 (269.8681954d) Dec: -36 01 15.59 (-36.02100d) Equinox: J2000		Proper Motion RA: 2.802 mas/yr Proper Motion Dec: -5.266000039227947 mas/yr Parallax: 2.944E-4" Epoch of Position: 2000		V=7.32 U = 6.46; B = 7.35; IUE Flux = 1.50E-11 erg/cm^2/s/A at 1350 A		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[SUPERGIANT O]											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	ACQ (STIS.ta.236 6862)	(5) HD-163758	STIS/CCD, ACQ, F28X500II	MIRROR	ACQTYPE=POINT			0.6 Secs (0.6 Secs)			
									[==>]		[1]	
	Comments: ACQ should achieve SNR of 302 with 51,882 e- in the brightest pixel at 0.6s with F28X500II. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 7.32, with E(B-V) = 0.035.											
Exposures	2	E140H-c134 3 (STIS.sp.23 26791)	(5) HD-163758	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs)			
									[==>]		[1]	
	Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation											
	3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]		[1]	
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation												
Orbit Structure	Orbit 1											Server Version: 20260618
	Unused Orbital Visibility = 354											

Proposal 18375 - VV1297SCO (06) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Visit	Proposal 18375, VV1297SCO (06)										Wed Aug 19 14:01:24 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: (none)										
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(6)	V-V1297-SCO	RA: 16 56 5.2157 (254.0217321d)		Proper Motion RA: -0.814 mas/yr		V=9.29+/-0.04		Reference Frame: ICRS		
		Alt Name1: HD152590	Dec: -40 20 57.58 (-40.34933d)		Proper Motion Dec: -1.4360000932356343 mas/yr		U = 7.87; B = 9.11; IUE Flux = 1.50E-11 erg/cm^2/s/A at 1350 A; E140H Flux = 1.75E-11 erg/cm^2/s/A at 1350A				
			Equinox: J2000		Parallax: 5.684E-4"						
Epoch of Position: 2000											
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.											
Category=STAR											
Description=[MAIN SEQUENCE O]											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ (STIS.ta.236 6526)	(6) V-V1297-SCO	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs)		
									[==>]	[1]	
	Comments: ACQ should achieve SNR of 313 with 38,911 e- in the brightest pixel at 0.1s with F28X50LP. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 9.29, with E(B-V) = 0.386.										
Exposures	2	E140H-c134 3 (STIS.sp.23 26861)	(6) V-V1297-SCO	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs)		
									[==>]	[1]	
	Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation										
	3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]	[1]	
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation											
Orbit Structure	Orbit 1										Server Version: 20260618
	Unused Orbital Visibility = 396 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation 050010001500200025003000350040004500500055006000 sec										

Proposal 18375 - HD152245 (07) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Visit	Proposal 18375, HD152245 (07)										Wed Aug 19 14:01:24 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: (none)											
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(7)	HD-152245	RA: 16 54 0.4798 (253.5019992d) Dec: -40 31 58.15 (-40.53282d) Equinox: J2000		Proper Motion RA: -0.357 mas/yr Proper Motion Dec: -1.1039999890272156 mas/yr Parallax: 5.381E-4" Epoch of Position: 2000		V=8.37 U = 7.71; B = 8.49; IUE Flux = 1.75E-11 erg/cm^2/s/A at 1350 A		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[B0-B2 III-I]											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	ACQ (STIS.ta.236 6533)	(7) HD-152245	STIS/CCD, ACQ, F28X500II	MIRROR	ACQTYPE=POINT			2.5 Secs (2.5 Secs)			
									[==>]		[1]	
	Comments: ACQ should achieve SNR of 296 with 50,036 e- in the brightest pixel at 2.5s with F28X500II. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 8.37, with E(B-V) = 0.276.											
Exposures	2	E140H-c134 3 (STIS.sp.23 26882)	(7) HD-152245	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs)			
									[==>]		[1]	
	Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation											
	3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]		[1]	
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation												
Orbit Structure	Orbit 1											Server Version: 20260618
	Unused Orbital Visibility = 355 Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation GS Acq </											

Proposal 18375 - HD152249 (08) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Wed Aug 19 14:01:24 GMT 2026

Visit	Proposal 18375, HD152249 (08)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA									
	Special Requirements: (none)									
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(8)	HD-152249	RA: 16 54 11.6396 (253.5484983d) Dec: -41 50 57.30 (-41.84925d) Equinox: J2000		Proper Motion RA: -0.65 mas/yr Proper Motion Dec: -2.324999968550401 mas/yr Parallax: 6.462999999999999E-4" Epoch of Position: 2000		V=6.45 U = 5.91; B = 6.65; IUE Flux = 5.00E-11 erg/cm^2/s/A at 1350 A; E140H Flux = 5.20E-11 erg/cm^2/s/A at 1350A	Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[SUPERGIANT O]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.236 6538)	(8) HD-152249	STIS/CCD, ACQ, F28X50OII	MIRROR	ACQTYPE=POINT			0.3 Secs (0.3 Secs)	
									[==>]	[1]
	Comments: ACQ should achieve SNR of 274 with 43,039 e- in the brightest pixel at 0.3s with F28X50OII. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 6.45, with E(B-V) = 0.200.									
Exposures	2	E140H-c134 3 (STIS.sp.23 26917)	(8) HD-152249	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs)	
									[==>]	[1]
	Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation									
	3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]	[1]
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation										
Orbit Structure	Orbit 1 Server Version: 20260618 Unused Orbital Visibility = 365 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec									

Proposal 18375 - HD152424 (09) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Wed Aug 19 14:01:24 GMT 2026

Visit	Proposal 18375, HD152424 (09)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA									
	Special Requirements: (none)									
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(9)	HD-152424	RA: 16 55 3.3295 (253.7638729d) Dec: -42 05 26.99 (-42.09083d) Equinox: J2000	Proper Motion RA: -0.529 mas/yr Proper Motion Dec: -2.223000024059729 mas/yr Parallax: 6.155E-4" Epoch of Position: 2000		V=6.27 U = 6.11; B = 6.69; IUE Flux = 2.00E-11 erg/cm^2/s/A at 1350 A; E140H Flux = 2.10E-11 erg/cm^2/s/A at 1350A	Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[SUPERGIANT O]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.236 6545)	(9) HD-152424	STIS/CCD, ACQ, F28X50OII	MIRROR	ACQTYPE=POINT			0.4 Secs (0.4 Secs)	
									[==>]	[1]
	Comments: ACQ should achieve SNR of 292 with 48,927 e- in the brightest pixel at 0.4s with F28X50OII. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 6.27, with E(B-V) = 0.419.									
Exposures	2	E140H-c134 3 (STIS.sp.23 26923)	(9) HD-152424	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs)	
									[==>]	[1]
	Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation									
	3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]	[1]
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation										
Orbit Structure	Orbit 1									
	Server Version: 20260618									
Unused Orbital Visibility = 365 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec										

Proposal 18375 - HD151805 (10) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Visit	Proposal 18375, HD151805 (10)										Wed Aug 19 14:01:24 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: (none)										
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(10)	HD-151805	RA: 16 51 35.7118 (252.8987992d) Dec: -41 46 35.56 (-41.77654d) Equinox: J2000		Proper Motion RA: -0.885 mas/yr Proper Motion Dec: -2.1469999410328455 mas/yr Parallax: 6.355E-4" Epoch of Position: 2000		V=8.86+/-0.99 U = 8.27; B = 8.99; IUE Flux = 7.50E-12 erg/cm^2/s/A at 1350 A		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[B0-B2 III-I]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ (STIS.ta.236 6550)	(10) HD-151805	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]	
	Comments: ACQ should achieve SNR of 398 with 61,902 e- in the brightest pixel at 0.1s with F28X50LP. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 8.86, with E(B-V) = 0.412.										
	2	E140H-c134 3 (STIS.sp.23 26927)	(10) HD-151805	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs) [==>]	[1]	
Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation											
3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A					[==>]	[1]	
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation											
Orbit Structure	Orbit 1 Server Version: 20260618 Unused Orbital Visibility = 396 Timeline events: GS Acq, Exp. 1, Pointing Maneuver, Exp. 2, Exp. 3, Home, Occultation.										
	Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation										

Proposal 18375 - HD153262 (11) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Visit	Proposal 18375, HD153262 (11)										Wed Aug 19 14:01:24 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: (none)											
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(11)	HD-153262	RA: 17 01 54.0729 (255.4753037d) Dec: -59 02 51.32 (-59.04759d) Equinox: J2000		Proper Motion RA: -2.236 mas/yr Proper Motion Dec: -9.680000084699714 mas/yr Parallax: 0.0016868" Epoch of Position: 2000		V=7.61 B = 7.55; IUE Flux = 2.30E-11 erg/cm^2/s/A at 1350A; E140H Flux = 2.70E-11 erg/cm^2/s/A at 1350A		Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[B3-B5 V-IV]											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	ACQ (STIS.ta.236 6695)	(11) HD-153262	STIS/CCD, ACQ, F28X500II	MIRROR	ACQTYPE=POINT			0.8 Secs (0.8 Secs)			
									[==>]		[1]	
	Comments: ACQ should achieve SNR of 288 with 47,240 e- in the brightest pixel at 0.8s with F28X500II. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 7.61, with E(B-V) = 0.125.											
Exposures	2	E140H-c134 3 (STIS.sp.23 26934)	(11) HD-153262	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs)			
									[==>]		[1]	
	Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation											
	3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]		[1]	
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation												
Orbit Structure	Orbit 1											Server Version: 20260618
	Unused Orbital Visibility = 406											

Proposal 18375 - HD148422 (12) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Wed Aug 19 14:01:24 GMT 2026

Visit	Proposal 18375, HD148422 (12)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA									
	Special Requirements: (none)									
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	HD-148422	RA: 16 30 59.8918 (247.7495492d) Dec: -56 29 43.23 (-56.49534d) Equinox: J2000	Proper Motion RA: -2.818 mas/yr Proper Motion Dec: -5.456999997477396 mas/yr Parallax: 2.138E-4" Epoch of Position: 2000	V=8.65+/-0.99 U = 7.93; B = 8.70; IUE Flux = 5.50E-12 erg/cm^2/s/A at 1350 A	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[B0-B2 III-I]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.236 6715)	(12) HD-148422	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]
	Comments: ACQ should achieve SNR of 429 with 72,227 e- in the brightest pixel at 0.1s with F28X50LP. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 8.65, with E(B-V) = 0.35.									
	2	E140H-c134 3 (STIS.sp.23 26943)	(12) HD-148422	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs) [==>]	[1]
Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation										
3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]	[1]	
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation										
Orbit Structure	Orbit 1									
	Server Version: 20260618									
Unused Orbital Visibility = 439										

Proposal 18375 - HD173219 (13) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Wed Aug 19 14:01:24 GMT 2026

Visit	Proposal 18375, HD173219 (13)										Wed Aug 19 14:01:24 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: (none)										
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(13)	HD-173219	RA: 18 44 33.3406 (281.1389192d) Dec: -07 06 38.16 (-7.11060d) Equinox: J2000	Proper Motion RA: -0.211 mas/yr Proper Motion Dec: -2.7039999167755013 mas/yr Parallax: 5.878E-4" Epoch of Position: 2000		V=7.88+/-0.01 U = 7.26; B = 8.00; IUE Flux = 1.40E-11 erg/cm^2/s/A at 1350 A	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[B0-B2 V-IV]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ (STIS.ta.236 6725)	(13) HD-173219	STIS/CCD, ACQ, F28X50OII	MIRROR	ACQTYPE=POINT			2 Secs (2 Secs)		
									[==>]	[1]	
	Comments: ACQ should achieve SNR of 300 with 51,228 e- in the brightest pixel at 2.0s with F28X50OII. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 7.88, with E(B-V) = 0.498.										
	2	E140H-c134 3 (STIS.sp.23 26957)	(13) HD-173219	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs)		
								[==>]	[1]		
Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation											
3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]	[1]		
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation											
Orbit Structure	Orbit 1 Server Version: 20260618 Unused Orbital Visibility = 333										

Proposal 18375 - HD178487 (14) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Wed Aug 19 14:01:25 GMT 2026

Visit	Proposal 18375, HD178487 (14)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA									
	Special Requirements: (none)									
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(14)	HD-178487	RA: 19 09 14.8371 (287.3118212d) Dec: -10 13 3.93 (-10.21776d) Equinox: J2000	Proper Motion RA: 1.142 mas/yr Proper Motion Dec: -5.149999901732372 mas/yr Parallax: 3.2E-4" Epoch of Position: 2000		V=8.69 U = 8.04; B = 8.78; IUE Flux = 8.00E-12 erg/cm^2/s/A at 1350 A	Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[B0-B2 III-I]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.236 6729)	(14) HD-178487	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) [==>]	[1]
	Comments: ACQ should achieve SNR of 426 with 71,008 e- in the brightest pixel at 0.1s with F28X50LP. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 8.69, with E(B-V) = 0.341.									
	2	E140H-c134 3 (STIS.sp.23 26969)	(14) HD-178487	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs) [==>]	[1]
	Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation									
	3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]	[1]
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation										
Orbit Structure	Orbit 1 Server Version: 20260618 Unused Orbital Visibility = 369 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec									

Proposal 18375 - HD160641 (15) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Wed Aug 19 14:01:25 GMT 2026

Visit	Proposal 18375, HD160641 (15)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA									
	Special Requirements: (none)									
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(15)	HD-160641	RA: 17 41 51.5792 (265.4649133d) Dec: -17 53 48.46 (-17.89679d) Equinox: J2000	Proper Motion RA: -6.246 mas/yr Proper Motion Dec: 2.557 mas/yr Parallax: 5.34000000000001E-4" Epoch of Position: 2000		V=9.85 U = 9.15; B = 10.01; IUE Flux = 3.00E-12 erg/cm^2/s/A at 1350 A		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[COMPOSITE SPECTRAL TYPE]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.236 6742)	(15) HD-160641	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.2 Secs (0.2 Secs)	
									[==>]	[1]
	Comments: ACQ should achieve SNR of 329 with 43,440 e- in the brightest pixel at 0.2s with F28X50LP. ACQ ETC calculation uses Kurucz O5 V template, normalized to V = 9.85, with E(B-V) = 0.287.									
	2	E140H-c134 3 (STIS.sp.23 27032)	(15) HD-160641	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs)	
									[==>]	[1]
Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation										
3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A					[==>]	[1]
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation										
Orbit Structure	Orbit 1 Server Version: 20260618 Unused Orbital Visibility = 371 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec									

Proposal 18375 - HD165246 (16) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Wed Aug 19 14:01:25 GMT 2026

Visit	Proposal 18375, HD165246 (16)										Wed Aug 19 14:01:25 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: (none)										
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(16)	HD-165246	RA: 18 06 4.6793 (271.5194971d) Dec: -24 11 43.89 (-24.19552d) Equinox: J2000	Proper Motion RA: 2.243 mas/yr Proper Motion Dec: -1.5689999827372958 mas/yr Parallax: 8.187E-4" Epoch of Position: 2000	V=7.6 U = 6.90; B = 7.70; IUE Flux = 5.00E-11 erg/cm^2/s/A at 1350 A	Reference Frame: ICRS					
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[MAIN SEQUENCE O]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ (STIS.ta.236 6792)	(16) HD-165246	STIS/CCD, ACQ, F28X500II	MIRROR	ACQTYPE=POINT			1 Secs (1 Secs) [==>]	[1]	
	Comments: ACQ should achieve SNR of 304 with 52,545 e- in the brightest pixel at 1.0s with F28X500II. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 7.6, with E(B-V) = 0.210.										
	2	E140H-c134 3 (STIS.sp.23 27041)	(16) HD-165246	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs) [==>]	[1]	
Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation											
3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]	[1]		
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation											
Orbit Structure	Orbit 1 Server Version: 20260618 Unused Orbital Visibility = 339 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec										

Proposal 18375 - HD168750 (17) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Visit	Proposal 18375, HD168750 (17)										Wed Aug 19 14:01:25 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: (none)										
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(17)	HD-168750	RA: 18 22 20.9643 (275.5873512d) Dec: -26 24 59.21 (-26.41645d) Equinox: J2000		Proper Motion RA: 1.309 mas/yr Proper Motion Dec: -0.3889999106831965 mas/yr Parallax: 5.593E-4" Epoch of Position: 2000		V=8.21+/-0.99 U = 6.90; B = 7.70; IUE Flux = 1.80E-11 erg/cm^2/s/A at 1350 A		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[B0-B2 III-I]										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ (STIS.ta.236 6812)	(17) HD-168750	STIS/CCD, ACQ, F28X500II	MIRROR	ACQTYPE=POINT			2.5 Secs (2.5 Secs)		
									[==>]	[1]	
	Comments: ACQ should achieve SNR of 300 with 51,206 e- in the brightest pixel at 2.5s with F28X500II. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 8.21, with E(B-V) = 0.305.										
Exposures	2	E140H-c134 3 (STIS.sp.23 27055)	(17) HD-168750	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs)		
									[==>]	[1]	
	Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation										
	3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]	[1]	
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation											
Orbit Structure	Orbit 1 Server Version: 20260618 Unused Orbital Visibility = 337 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec										

Proposal 18375 - HD168941 (18) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Wed Aug 19 14:01:25 GMT 2026

Visit	Proposal 18375, HD168941 (18)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA									
	Special Requirements: (none)									
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(18)	HD-168941	RA: 18 23 25.5605 (275.8565021d) Dec: -26 57 10.84 (-26.95301d) Equinox: J2000	Proper Motion RA: -0.673 mas/yr Proper Motion Dec: -6.641000095441996 mas/yr Parallax: 2.387E-4" Epoch of Position: 2000		V=9.37+/-0.99 U = 8.53; B = 9.36; IUE Flux = 9.00E-12 erg/cm^2/s/A at 1350 A	Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[MAIN SEQUENCE O]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.236 6823)	(18) HD-168941	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.2 Secs (0.2 Secs) [==>]	[1]
	Comments: ACQ should achieve SNR of 390 with 61,602 e- in the brightest pixel at 0.2s with F28X50LP. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 9.37, with E(B-V) = 0.092.									
	2	E140H-c134 3 (STIS.sp.23 27063)	(18) HD-168941	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs) [==>]	[1]
	Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation									
	3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A				[==>]	[1]
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation										
Orbit Structure	Orbit 1									
	Server Version: 20260618									
Unused Orbital Visibility = 378 Timeline events (approximate times): - GS Acq: 0s - Exp. 1: 400s - Pointing Maneuver: 600s - Exp. 2: 700s - Exp. 3: 2700s - Home: 2800s - Occultation: 3000s - 5500s										

Proposal 18375 - HD178370 (19) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Wed Aug 19 14:01:25 GMT 2026

Visit	Proposal 18375, HD178370 (19)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA									
	Special Requirements: (none)									
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(19)	HD-178370	RA: 19 09 42.7432 (287.4280967d) Dec: -31 55 15.22 (-31.92089d) Equinox: J2000	Proper Motion RA: -1.31 mas/yr Proper Motion Dec: 1.773 mas/yr Parallax: 3.737E-4" Epoch of Position: 2000		V=9.5 U = 8.70; B = 9.40; IUE Flux = 7.50E-12 erg/cm^2/s/A at 1350 A		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[B0-B2 III-I, B3-B5 III-I]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.236 6829)	(19) HD-178370	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.2 Secs (0.2 Secs)	
									[==>]	[1]
	Comments: ACQ should achieve SNR of 374 with 56,387 e- in the brightest pixel at 0.2s with F28X50LP. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 9.50, with E(B-V) = 0.070.									
	2	E140H-c134 3 (STIS.sp.23 27068)	(19) HD-178370	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs)	
									[==>]	[1]
Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation										
3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A					[==>]	[1]
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation										
Orbit Structure	Orbit 1 Server Version: 20260618 Unused Orbital Visibility = 382 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation </									

Proposal 18375 - HD173502 (20) - Tracing Gas Flows Locally to Understand Gas Flows Globally

Wed Aug 19 14:01:25 GMT 2026

Visit	Proposal 18375, HD173502 (20)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA									
	Special Requirements: (none)									
Comments: STIS/E140H observations of HD165582 - Length: 1 orbit										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(20)	HD-173502	RA: 18 46 55.8918 (281.7328825d) Dec: -29 57 35.89 (-29.95997d) Equinox: J2000		Proper Motion RA: -0.351 mas/yr Proper Motion Dec: -3.53599998561549 mas/yr Parallax: 2.478E-4" Epoch of Position: 2000		V=9.7 U = 8.77; B = 9.61; IUE Flux = 1.00E-11 erg/cm^2/s/A at 1350 A; E140H Flux = 1.10E-11 erg/cm^2/s/A at 1350A		Reference Frame: ICRS	
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.									
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[B0-B2 III-I]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.236 6834)	(20) HD-173502	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.2 Secs (0.2 Secs) [>=>]	[1]
	Comments: ACQ should achieve SNR of 339 with 46,437 e- in the brightest pixel at 0.2s with F28X50LP. ACQ ETC calculation uses same template as the spectroscopic ETC calculation, normalized to V = 9.70, with E(B-V) = 0.093.									
	2	E140H-c134 3 (STIS.sp.23 27073)	(20) HD-173502	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A	WAVECAL=NO			1800 Secs (1800 Secs) [>=>]	[1]
Comments: Auto-wavecal was turned off but a GO-WAVECAL with E140H/c1343 and 0.2X0.09 aperture was added later so that the wavecal exposure can be moved to the end of the orbit/into the occultation										
3	GO-WAVE CAL E140H -c1343	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.09	E140H 1343 A					[>=>]	[1]
Comments: This GO-WAVECAL with E140H-c1343 and 0.2X0.09 slit was added in conjunction with turning the auto wavecal off so that the wavecal can be moved at the and of the orbit/into occultation										
Orbit Structure	Orbit 1									
	Server Version: 20260618									
Unused Orbital Visibility = 378										
The diagram shows a timeline for Orbit 1 from 0 to 6000 seconds. Key events include: GS Acq at ~200s, Exp. 1 at ~400s, Pointing Maneuver at ~600s, Exp. 2 at ~700s, Exp. 3 at ~2700s, Home at ~2800s, and Occultation starting at ~3000s. A blue hatched bar represents the main observation period from ~400s to ~2600s. A green bar represents the GO-WAVECAL exposure at ~2700s. A black bar represents the occultation period from ~3000s to ~5500s.										