

15541 - Cycle 26 COS NUV Wavelength Scale Monitor

Cycle: 26, Proposal Category: CAL/COS (Availability Mode: RESTRICTED)

INVESTIGATORS

IVEDITORIOR							
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VISITS

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used		OP Current with Visit?
01	(1) HD-6655	COS/NUV	1	08-Aug-2018 18:01:50.0	yes

¹ Total Orbits Used

ABSTRACT

This program monitors the stability of the constant terms in the NUV dispersion solutions. To monitor for any changes, the program observes HD 6655 at selected cenwaves for the three NUV gratings that have seen use since Cycle 21. Via cross-correlation, spectra are compared to those obtained in previous iterations of the program and to STIS spectra obtained in-orbit.

OBSERVING DESCRIPTION

To monitor the constant terms in the COS/NUV dispersion solutions in Cycle 26, we continue the approach of Cycle 25 program 15388. This includes taking spectra with the cenwaves 2635, 2950, and 3000 in G230L, cenwave 2217 in G225M, and cenwave 2010 in G185M. The previously monitored G285M grating was dropped from the program due to its declining sensitivity and lack of use since Cycle 21. All data are obtained at FP-POS 3. Due to past GS acquisition issues (e.g., Visit 02 of Cycle 22 program 13975; see HOPR 81649), we use an ACQ/SEARCH, ACQ/PEAKXD, and ACQ/PEAKD sequence. The available GS pairs need to be carefully vetted, as optimum target centering is critical to this program. The proper

Proposal 15541 (STScI Edit Number: 2, Created: Wednesday, August 8, 2018 5:01:51 PM EST) - Overview

motions were modified to reflect the latest GAIA measurements. Data from previous iterations of this program were used to update the ETC calculations for Cycle 25; exposure times were left the same for Cycle 26. Beginning with Cycle 25, this program was reduced to one visit from the previous two visits, since this was deemed sufficient for the monitoring. To maintain an interval of about 12 months between visits, the program will ideally be carried out in the window that spans late September and early October 2019. The schedulability is set to 60% to fit all the observations in one orbit.

Wed Aug 08 22:01:51 GMT 2018

Proposal 15541, Visit 01, implementation Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: SCHED 60%; BETWEEN 01-SEP-2019:00:00:00 AND 15-OCT-2019:00:00:00

Comments: The 32 day window in September/October 2019 is preferred to maintain a pattern of about 12 months between visits. The schedulability is set to 60% to fit all the observations in one orbit.

Diagnostics

(Visit 01) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.

	# Name Target Coordinates		Targ. Coord. Corrections	Fluxes	Miscellaneous	
ts	(1)	HD-6655	RA: 01 05 18.2073 (16.3258637d)	Proper Motion RA: 49.5 mas/yr	V=8.05+/-0.05	Reference Frame: ICRS
ge			Dec: -72 33 14.47 (-72.55402d)	Proper Motion Dec: -120.0 mas/yr		
آڃ			Equinox: J2000	Epoch of Position: 2000		
ğ				Radial Velocity: 19.5 km/sec		
×	Comments: This object was generated by the target selector and retrieved from the SIMBAD database. Category=STAR					
证	Category=STAR					

Description=[F3-F9] Extended=NO

#	Label Targ (ETC Run)	get	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(COS.sa.102 (1) HD-6655	COS/NUV, ACQ/SEARCH, PSA	G230L	SCAN-SIZE=3;	GSPAIR S0XG0644		1 Secs (1 Secs)		
	5837)	5837)		2635 A	STEP-SIZE=1.767;	88F2S0XJ067306F1	88F2S0XJ067306F1	I ==> J	
					CENTER=FLUX-W T-FLR			[1]	
2		COS/NUV, ACQ/PEAKXD, PSA	G230L	STRIPE=MEDIUM			1 Secs (1 Secs)		
	5839)			2635 A				[==>]	[1]
3	(COS.sa.102 (1) H	ID-6655	COS/NUV, ACQ/PEAKD, PSA	G230L	NUM-POS=5;			1 Secs (1 Secs)	
	5837)	5837)		2635 A	STEP-SIZE=1;			[==>]	
sə.					CENTER=FLUX-W T-FLR	,			[1]
Jns 4	(COS.sp.102 (1) H	HD-6655	COS/NUV, TIME-TAG, PSA	G230L	BUFFER-TIME=17			80 Secs (80 Secs)	
Exposures	5840)			2635 A	7; FP-POS=3			[==>]	[1]
ш 5	(COS.sp.102 (1) H	COS.sp.102 (1) HD-6655 COS/NUV, TIME-TAG, PSA	G230L	BUFFER-TIME=12			80 Secs (80 Secs)		
	5842)		2950 A 3; FP-POS=3		[==>]	[1]			
6	(COS.sp.102 (1) H	HD-6655	COS/NUV, TIME-TAG, PSA	G230L	BUFFER-TIME=12			80 Secs (80 Secs)	
	5843)			3000 A	4; FP-POS=3			[==>]	[1]
7	(COS.sp.102 (1) H	HD-6655	COS/NUV, TIME-TAG, PSA	G225M	BUFFER-TIME=33			440 Secs (440 Secs)	
	5846)		2217 A	0; FP-POS=3		[==>]	[1]		
8	(COS.sp.102 (1) H	HD-6655	COS/NUV, TIME-TAG, PSA	G185M	BUFFER-TIME=75	860 Secs (860 Secs)			
	5857)		2010 A	0; FP-POS=3	P-POS=3		[==>]	[1]	

