Proposal 13969 (STScI Edit Number: 1, Created: Tuesday, September 30, 2014 8:30:26 PM EST) - Overview



13969 - COS FUV Internal/External Wavelength Scale Monitor

Cycle: 22, Proposal Category: CAL/COS

(Calibration)

(Availability Mode: RESTRICTED)

INVESTIGATORS

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VISITS

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used		OP Current with Visit?
01	(1) AV75	COS/FUV COS/NUV	1	30-Sep-2014 21:30:24.0	yes

¹ Total Orbits Used

ABSTRACT

This programs monitors the offset between the internal and external dispersion solutions. This offset is referred to as DELTA in the wavelength dispersion reference file and corrects for the shift between the WCA and PSA in TV03 versus the shift between WCA and PSA on orbit. Analysis indicates that DELTA is independent of cenwave and FP-POS for a given grating, but is grating and stripe dependent. To monitor this, the program observes selected cenwaves at multiple FP-POS positions.

OBSERVING DESCRIPTION

To continue monitoring the COS/FUV dispersion solutions, program 13969 would normally observe selected cenwaves at multiple FP-POS positions for all standard COS FUV M and L modes including the G130M/1055, 1096 and 1222 configurations that were added as regular observing modes in

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However in Cycle 22, data for all standard G130M and G160M configurations will be obtained as part of Lifetime Position 3 (LP3) calibration program 13931 (LCAL2). As a result, program 13969 will ONLY monitor the G130M/1096 configuration and the G140L/1280 & 1105 configurations. We will combine data obtained from both 13931 (LCAL2) and 13969 to monitor the dispersion solutions for all the standard modes. This monitoring program is, thus, reduced to 1 orbit during Cycle 22 ONLY. Starting in Cycle 23, the structure of Cycle 21 calibration program 13522 should be re-instated.

Proposal 13969 - Visit 01 - COS FUV Internal/External Wavelength Scale Monitor

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Diagnostic Status: Warning

Scientific Instruments: COS/NUV, COS/FUV

Special Requirements: SCHED 30%; ORIENT 270D TO 60 D; ORIENT 165D TO 166 D; BETWEEN 16-JUL-2015:00:00:00 AND 24-JUL-2015:00:00:00; BETWEEN 24-MAR-2015:00:00:00 AND 25-MAR-2015:00:00:00

(Visit 01) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Diagnostics

ts	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
ge.	(1)	AV75	RA: 00 50 32.3900 (12.6349583d)		V=12.79	Reference Frame: ICRS
<u>ā</u>			Dec: -72 52 36.48 (-72.87680d)			

Equinox: J2000

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

	#	Label Target (ETC Run)	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.627 (1) AV75 378)	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				13.0 Secs (13 Secs)	
		378)						[==>]	[1]
Exposures	2	(COS.sp.627 (1) AV75	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=29			810. Secs (810 Secs)	
		379)		1096 A	0; FP-POS=2			[==>]	[1]
	3	(COS.sp.627 (1) AV75	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=29			810. Secs (810 Secs)	
ΙÄ		379)		1096 A	0;			[==>]	[1]
1-					FP-POS=4				[-]
	4	(COS.sp.627 (1) AV75	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=80;			80. Secs (80 Secs)	
		580)		1280 A	FP-POS=3			[==>]	[1]
	5	(COS.sp.627 (1) AV75	COS/FUV, TIME-TAG, PSA	G140L	BUFFER-TIME=80;	;		80 Secs (80 Secs)	
		582)		1105 A	FP-POS=3			[==>]	[1]

