13127 - COS NUV Internal/External Wavelength Scale Monitor

Cycle: 20, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

INVESTIGATORS

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VISITS

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
01	(1) HD-6655	COS/NUV	1	11-Jul-2013 12:07:07.0	yes

1 Total Orbits Used

ABSTRACT

This program monitors the offset between the internal and external wavelength scales: 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 the WCA and PSA in orbit : (WCA-PSA_)_TV03 - (WCA - PSA)_orbit. Analysis of TV data indicates that this DELTA (offset) is cenwave and FPPOS independent for a particular grating, but it is grating and stripe dependent. To verify and monitor this, this program observes various cenwaves.

OBSERVING DESCRIPTION

This program monitors the offset between the internal and external wavelength scales: 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 the WCA and PSA in orbit : (WCA-PSA_)_TV03 - (WCA - PSA)_orbit. Analysis of TV data indicates that this DELTA (offset) is cenwave and FPPOS independent for a particular grating, but it is grating and stripe dependent. To verify and monitor this, this program observes various cenwaves.

Visit	**Proposal 13127, Visit 01, implementation**				Thu Jul 11 16:07:15 GMT 2013
	Diagnostic Status: Warning				
	Scientific Instruments: COS/NUV				
	Special Requirements: BETWEEN 02-AUG-2013:00:00:00 AND 20-AUG-2013:00:00:00				
Diagnostics	(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.				

	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
Fixed Targets	(1)	HD-6655	RA: 01 05 18.2073 (16.3258637d)	Proper Motion RA: 0.01101 sec of time/yr	V=8.05+/-0.05	Reference Frame: ICRS
			Dec: -72 33 14.47 (-72.55402d)	Proper Motion Dec: -0.118 arcsec/yr		
			Equinox: J2000	Epoch of Position: 2000		
				Radial Velocity: 19.5 km/sec		

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

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(COS.sa.431 349)	(1) HD-6655	COS/NUV, ACQ/PEAKXD, PSA	G230L 2635 A	STRIPE=MEDIUM			1.5 Secs (1.5 Secs) *[==>]*	*[1]*
	2	(COS.sa.431 349)	(1) HD-6655	COS/NUV, ACQ/PEAKXD, PSA	G230L 2635 A	STRIPE=MEDIUM			1.5 Secs (1.5 Secs) *[==>]*	*[1]*
	3	(COS.sa.431 349)	(1) HD-6655	COS/NUV, ACQ/PEAKD, PSA	G230L 2635 A	NUM-POS=5; STEP-SIZE=1; CENTER=FLUX-WT-FLR			1 Secs (1 Secs) *[==>]*	*[1]*
	4	(COS.sp.431 336)	(1) HD-6655	COS/NUV, TIME-TAG, PSA	G230L 2635 A	BUFFER-TIME=80. ; FP-POS=3			80 Secs (80 Secs) *[==>]*	*[1]*

Comments: Brightest Pixel (2655.03 Å) 10.647
Count rate entire detector 10,290.483
* Count rate stripe A 2.608*
* Count rate stripe B 9,354.643*
* Stripe C contains only second order light not calculated*
Buffer time (sec) 229

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	5	(COS.sp.431 337)	(1) HD-6655	COS/NUV, TIME-TAG, PSA	G230L 2950 A	BUFFER-TIME=80. ; FP-POS=3			80 Secs (80 Secs) *[==>]*	*[1]*

Comments: Brightest Pixel (2909.99 Å) 10.347
Count rate entire detector 14,632.767
* Count rate stripe A 373.908*
* Count rate stripe B 13,325.627*
* Stripe C contains only second order light not calculated*
Buffer time (sec) 161

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	6	(COS.sp.431 339)	(1) HD-6655	COS/NUV, TIME-TAG, PSA	G230L 3000 A	BUFFER-TIME=80. ; FP-POS=3			80 Secs (80 Secs) *[==>]*	*[1]*

Comments: Brightest Pixel (2910.09 Å) 10.327
Count rate entire detector 14,694.078
* Count rate stripe A 769.522*
* Count rate stripe B 12,991.322*
* Stripe C contains only second order light not calculated*
Buffer time (sec) 160

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	7	(COS.sp.431 344)	(1) HD-6655	COS/NUV, TIME-TAG, PSA	G285M 2676 A	BUFFER-TIME=90. ; FP-POS=3			90 Secs (90 Secs) *[==>]*	*[1]*

Comments: Brightest Pixel (2655.52 Å) 0.460
Count rate entire detector 2,291.432
* Count rate stripe A 272.017*
* Count rate stripe B 777.690*
* Count rate stripe C 308.492*
Buffer time (sec) 1,029

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	8	(COS.sp.431 343)	(1) HD-6655	COS/NUV, TIME-TAG, PSA	G225M 2217 A	BUFFER-TIME=330; FP-POS=3			440 Secs (440 Secs) *[==>]*	*[1]*

Comments: Brightest Pixel (2304.99 Å) 0.260
Count rate entire detector 1,913.179
* Count rate stripe A 184.120*
* Count rate stripe B 343.197*
* Count rate stripe C 452.629*
Buffer time (sec) 1,233

9	(COS.sp.431 (1) HD-6655 347)	COS/NUV, TIME-TAG, PSA	G185M 2010 A	BUFFER-TIME=750; FP-POS=3	860 Secs (860 Secs)	
					[==>]	[1]

Comments: Brightest Pixel (2114.99 Å) 0.141
Count rate entire detector 1,331.211
*   Count rate stripe A 37.395*
*   Count rate stripe B 73.006*
*   Count rate stripe C 287.578*
Buffer time (sec) 1,772

Orbit 1

Server Version: 20130502