



## 14503 - Constraining the zero-points of the COS/NUV wavelength solution - G185M

Cycle: 23, Proposal Category: CAL/COS

(Calibration)

(Availability Mode: RESTRICTED)

### 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) NGC330-B37	COS/NUV	3	29-Jul-2016 13:35:26.0	yes

3 Total Orbits Used

### ABSTRACT

We will obtain COS/NUV G185M data for all cenwaves to update the zero-points of the dispersion solutions for stripe A and stripe B. External target NGC330-B37 is used for this program. Archival STIS E140M/E230M and E140M data exist and will be combined with the COS data obtained in this program to derive new zero-point values for all G185M cenwaves.

### OBSERVING DESCRIPTION

We will obtain COS/NUV G185M data for all cenwaves to update the wavelength zero-points for all three stripes. External target NGC330-B37 is used for this program. Archival STIS E140M/E230M and E140M data exist and will be combined with the COS data obtained in this program to

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derive new zero-point values for all G185M cenwaves. For each cenwave, the integration times were determined to reach at least SN=10 in the stripe with lowest counts based on existing archival STIS E140M/E230M data. An ORIENT is placed to avoid 2 bright objects that could intersect the PSA field of view while performing the target acquisition with the BOA.

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Fri Jul 29 17:35:27 GMT 2016

<b>Visit</b>	<b>Proposal 14503, Visit 01</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; ORIENT 278D TO 194 D					
	(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.					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	NGC330-B37	RA: 00 56 20.8010 (14.0866708d) Dec: -72 28 34.13 (-72.47615d) Equinox: J2000	Proper Motion RA: -6.9 mas/yr Proper Motion Dec: 6.9 mas/yr Epoch of Position: 2000	V=13.33+/-0.1	Reference Frame: ICRS
<i>Comments: Coordinates and PM values updated with Gaia catalog entries</i> Extended=NO						

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#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(COS.ta.814 (1) NGC330-B37 381)	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				41 Secs (41 Secs) [==>]	[1]
	2	(COS.sp.814 (1) NGC330-B37 559)	COS/NUV, TIME-TAG, PSA	G185M 1786 A	BUFFER-TIME=10 44; FP-POS=3; FLASH=YES			500 Secs (500 Secs) [==>]	[1]
	3	(COS.sp.814 (1) NGC330-B37 558)	COS/NUV, TIME-TAG, PSA	G185M 1817 A	BUFFER-TIME=10 44; FP-POS=3; FLASH=YES			500 Secs (500 Secs) [==>]	[1]
	4	(COS.sp.814 (1) NGC330-B37 277)	COS/NUV, TIME-TAG, PSA	G185M 1835 A	BUFFER-TIME=10 18; FP-POS=3; FLASH=YES			390 Secs (390 Secs) [==>]	[1]
	5	(COS.sp.814 (1) NGC330-B37 278)	COS/NUV, TIME-TAG, PSA	G185M 1850 A	BUFFER-TIME=10 16; FP-POS=3; FLASH=YES			370 Secs (370 Secs) [==>]	[1]
	6	(COS.sp.814 (1) NGC330-B37 279)	COS/NUV, TIME-TAG, PSA	G185M 1864 A	BUFFER-TIME=10 02; FP-POS=3; FLASH=YES			359 Secs (359 Secs) [==>]	[2]
	7	(COS.sp.814 (1) NGC330-B37 280)	COS/NUV, TIME-TAG, PSA	G185M 1882 A	BUFFER-TIME=99 8; FP-POS=3; FLASH=YES			389 Secs (389 Secs) [==>]	[2]
	8	(COS.sp.814 (1) NGC330-B37 568)	COS/NUV, TIME-TAG, PSA	G185M 1890 A	BUFFER-TIME=99 8; FP-POS=3; FLASH=YES			300 Secs (300 Secs) [==>]	[2]
	9	(COS.sp.814 (1) NGC330-B37 281)	COS/NUV, TIME-TAG, PSA	G185M 1900 A	BUFFER-TIME=10 10; FP-POS=3; FLASH=YES			351 Secs (351 Secs) [==>]	[2]
	10	(COS.sp.814 (1) NGC330-B37 569)	COS/NUV, TIME-TAG, PSA	G185M 1913 A	BUFFER-TIME=10 12; FP-POS=3; FLASH=YES			285 Secs (285 Secs) [==>]	[2]
	11	(COS.sp.814 (1) NGC330-B37 570)	COS/NUV, TIME-TAG, PSA	G185M 1921 A	BUFFER-TIME=10 12; FP-POS=3; FLASH=YES			285 Secs (285 Secs) [==>]	[2]
	12	(COS.sp.814 (1) NGC330-B37 282)	COS/NUV, TIME-TAG, PSA	G185M 1941 A	BUFFER-TIME=10 12; FP-POS=3; FLASH=YES			293 Secs (293 Secs) [==>]	[3]

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13	(COS.sp.814 (1) NGC330-B37 283)	COS/NUV, TIME-TAG, PSA	G185M 1953 A	BUFFER-TIME=10 24; FP-POS=3; FLASH=YES	389 Secs (389 Secs)	
					[==>]	[3]
14	(COS.sp.814 (1) NGC330-B37 284)	COS/NUV, TIME-TAG, PSA	G185M 1971 A	BUFFER-TIME=10 20; FP-POS=3; FLASH=YES	539 Secs (539 Secs)	
					[==>]	[3]
15	(COS.sp.814 (1) NGC330-B37 285)	COS/NUV, TIME-TAG, PSA	G185M 1986 A	BUFFER-TIME=10 30; FP-POS=3; FLASH=YES	410 Secs (410 Secs)	
					[==>]	[3]
16	(COS.sp.814 (1) NGC330-B37 286)	COS/NUV, TIME-TAG, PSA	G185M 2010 A	BUFFER-TIME=10 44; FP-POS=3; FLASH=YES	378 Secs (378 Secs)	
					[==>]	[3]



