



## 13194 - COS Side 2 Internal NUV Wavelength Verification

Cycle: 26, Proposal Category: CAL/COS

(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	WAVE	COS/NUV	1	05-Mar-2019 15:02:01.0	yes
02	WAVE	COS/NUV	1	05-Mar-2019 15:02:02.0	yes

2 Total Orbits Used

### ABSTRACT

Test that the OSM2 coarse resolver goes to the proper location at all extreme NUV central wavelength settings using the side-2 electronics.

### OBSERVING DESCRIPTION

COS SIDE-2 ACTIVITY TITLE: COS Side 2 Internal NUV Wavelength Verification

PURPOSE OF PROGRAM:

Test that the OSM2 coarse resolver goes to the proper location at all extreme central wavelength settings using the side-2 electronics.

DESCRIPTION OF PROGRAM:

Visit 01 (internal) - Take lampflash data at G185M central wavelengths [1786, 2010], G225M [2186, 2410], G285M [2617, 3094], and G230L 2635.

Visit 02 (internal) - Take lampflash data at G230L central wavelength 3360.

This entire activity will be conducted as a series of internal exposures

DEPENDENCIES:

DURATION: 2 orbits (internal)

----- Additional Comments -----

SCHEDULING CONSTRAINTS:

\*\* Following a success oriented approach the constraints in this program were modified: This program should only execute after program 13189 (COS Side 2 NUV Detector Recovery After MEB Side Switch) completes - C. Oliveira Aug 28 2013 \*\*

ANALYSES & EXPECTED RESULTS:

Wavecal data will be run through CALCOS in order to determine the SHIFT1A and SHIFT1B keywords, the cross-correlation AD offset from the LAMPTAB template taken with side-1 electronics.

Shifts should be no greater than 1/2 FP-POS.

Special software needs: None

FTEs (days/weeks) needed for analysis: 1 FTE day

Proposal 13194 (STScI Edit Number: 4, Created: Tuesday, March 5, 2019 at 3:02:02 PM Eastern Standard Time) - Overview

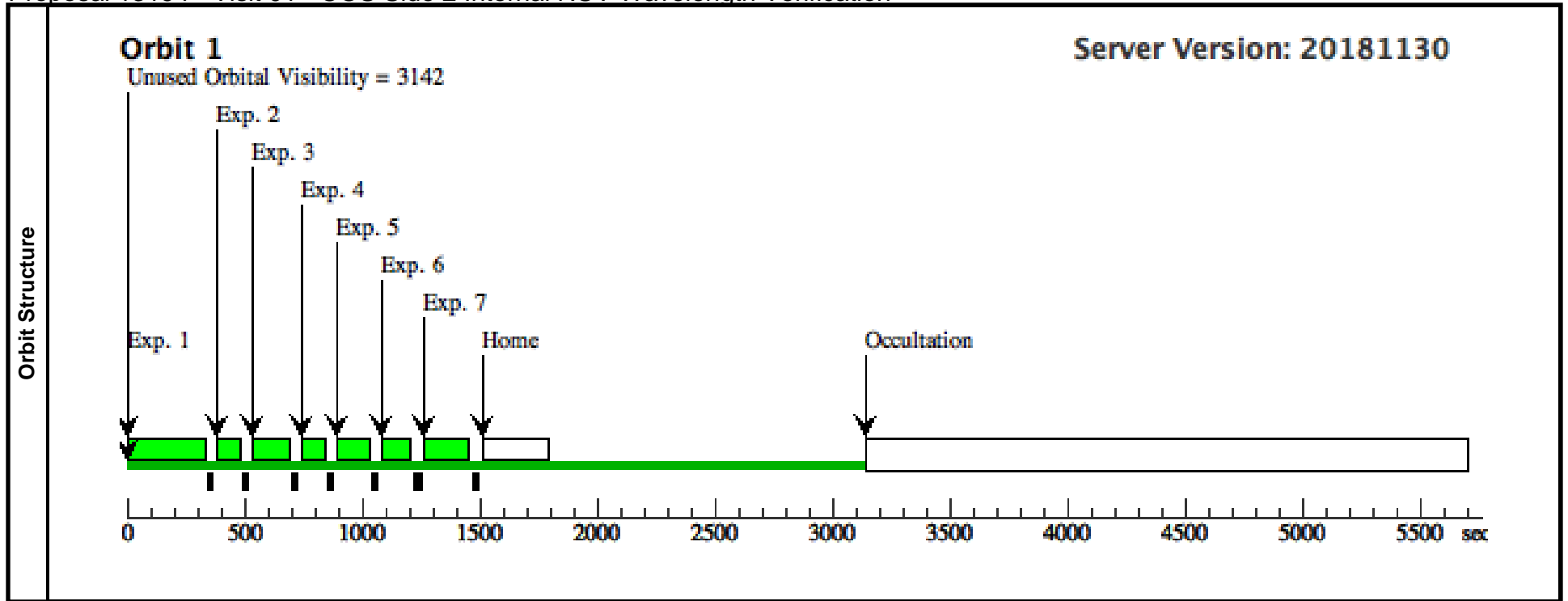
All comments above here are from the original submission by Sean Lockwood

2017-10-23: PI switched to Nick Indriolo and CO-Is no longer on the COS team removed

Proposal 13194 - Visit 01 - COS Side 2 Internal NUV Wavelength Verification

Tue Mar 05 20:02:02 GMT 2019

<b>Visit</b>	<b>Proposal 13194, Visit 01, implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV Special Requirements: (none) <i>Comments: G185M, G225M, G285M, and first of G230L wavecal exposures for side-2 electronics switch.</i>									
	<b>Diagnosics</b> (Visit 01) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU									
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1		WAVE	COS/NUV, TIME-TAG, WCA	G185M 1786 A	FP-POS=3			[==>]	[1]
	2		WAVE	COS/NUV, TIME-TAG, WCA	G185M 2010 A	FP-POS=3			[==>]	[1]
	3		WAVE	COS/NUV, TIME-TAG, WCA	G225M 2186 A	FP-POS=3			[==>]	[1]
	4		WAVE	COS/NUV, TIME-TAG, WCA	G225M 2410 A	FP-POS=3			[==>]	[1]
	5		WAVE	COS/NUV, TIME-TAG, WCA	G285M 2617 A	FP-POS=3			[==>]	[1]
	6		WAVE	COS/NUV, TIME-TAG, WCA	G285M 3094 A	FP-POS=3			[==>]	[1]
	7		WAVE	COS/NUV, TIME-TAG, WCA	G230L 2635 A	FP-POS=3			[==>]	[1]



Proposal 13194 - Visit 02 - COS Side 2 Internal NUV Wavelength Verification

Tue Mar 05 20:02:02 GMT 2019

<b>Visit</b>	Proposal 13194, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/NUV Special Requirements: (none) Comments: Remaining G230L wavecal exposure for side-2 electronics switch.									
	<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]
1			WAVE	COS/NUV, TIME-TAG, WCA	G230L 3360 A	FP-POS=3			[==>]	[1]
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20181130</b></span></p> <p>Unused Orbital Visibility = 3142</p> <p>The diagram shows a horizontal axis representing time in seconds, ranging from 0 to 5500 with major ticks every 500 seconds. A green bar starts at 0 seconds and ends at approximately 3142 seconds, indicating the duration of the exposure. A white bar starts at approximately 3142 seconds and ends at 5500 seconds, indicating the duration of the occultation. Two vertical arrows point to the start of the green bar: one at 0 seconds labeled 'Exp. 1 Home' and another slightly later. A third vertical arrow points to the start of the white bar, labeled 'Occultation'.</p>									
	<p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec</p>									