



# 13933 - Third COS FUV Lifetime Calibration Program: Verification of FUV BOA Operations (LCAL4)

Cycle: 22, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Dr. Andrew J. Fox (PI) (ESA Member) (Contact)</b>	<b>Space Telescope Science Institute - ESA</b>	<b>afox@stsci.edu</b>
Dr. John Henry Debes (CoI)	Space Telescope Science Institute	debes@stsci.edu
Dr. Cristina Oliveira (CoI)	Space Telescope Science Institute	oliveira@stsci.edu
Dr. Charles R. Proffitt (CoI)	Computer Sciences Corporation	proffitt@stsci.edu
Dr. Julia Christine Roman-Duval (CoI) (ESA Member)	Space Telescope Science Institute - ESA	duval@stsci.edu

## 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) G191B2B WAVE	COS/FUV COS/NUV	1	04-Nov-2014 21:08:15.0	yes

1 Total Orbits Used

## ABSTRACT

This is a program to observe the photometric standard star G191-B2B with the bright object aperture (BOA) for one external orbit. Spectra will be obtained in the G130M, G160M, and G140L gratings at one cenwave each to 1) verify the spectral position, 2) measure the spectral resolution, 3) obtain the cross-dispersion profiles, and 4) complete updated target acquisition parameters.

**OBSERVING DESCRIPTION**

The target will be acquired using NUV/MIRRORB/BOA imaging, then G140L and G160M exposures will be taken with the autowavecal off. Then G130M exposures at all 4 FP-POS will be taken with auto-wavecal enabled. The visit is designed so that the wavecals are taken in the occultation period at the end of the orbit, to maximize the on-source exposure time.

Proposal 13933 - Visit 01 - Third COS FUV Lifetime Calibration Program: Verification of FUV BOA Operations (LCAL4)

Wed Nov 05 02:08:17 GMT 2014

<b>Visit</b>	<p><b>Proposal 13933, Visit 01, implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/NUV, COS/FUV</p> <p>Special Requirements: BETWEEN 10-FEB-2015:00:00:00 AND 31-MAR-2015:00:00</p>																		
<b>Diagnostics</b>	<p>(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.</p>																		
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>G191B2B</td> <td>RA: 05 05 30.6128 (76.3775533d) Dec: +52 49 51.96 (52.83110d) Equinox: J2000</td> <td></td> <td>V=11.69</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	G191B2B	RA: 05 05 30.6128 (76.3775533d) Dec: +52 49 51.96 (52.83110d) Equinox: J2000		V=11.69	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous														
(1)	G191B2B	RA: 05 05 30.6128 (76.3775533d) Dec: +52 49 51.96 (52.83110d) Equinox: J2000		V=11.69	Reference Frame: ICRS														
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>																			

Proposal 13933 - Visit 01 - Third COS FUV Lifetime Calibration Program: Verification of FUV BOA Operations (LCAL4)

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.628 132)	(1) G191B2B	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				25 Secs (25 Secs)	
									[==>]	[1]
	2	(COS.sp.628 131)	(1) G191B2B	COS/FUV, TIME-TAG, BOA	G140L 1280 A	BUFFER-TIME=60 0;	WAVECAL=NO; FP-POS=3		13 Secs (13 Secs)	
									[==>]	[1]
	3	(COS.sp.628 136)	(1) G191B2B	COS/FUV, TIME-TAG, BOA	G160M 1623 A	BUFFER-TIME=16 00;	FP-POS=3; WAVECAL=NO		795 Secs (795 Secs)	
									[==>]	[1]
	4	(COS.sp.628 134)	(1) G191B2B	COS/FUV, TIME-TAG, BOA	G130M 1291 A	BUFFER-TIME=40 0;	FP-POS=1; WAVECAL=NO		220 Secs (220 Secs)	
									[==>]	[1]
	5	(COS.sp.628 134)	(1) G191B2B	COS/FUV, TIME-TAG, BOA	G130M 1291 A	BUFFER-TIME=40 0;	FP-POS=2; WAVECAL=NO		220 Secs (220 Secs)	
								[==>]	[1]	
6	(COS.sp.628 134)	(1) G191B2B	COS/FUV, TIME-TAG, BOA	G130M 1291 A	BUFFER-TIME=40 0;	FP-POS=3; WAVECAL=NO		220 Secs (220 Secs)		
								[==>]	[1]	
7	(COS.sp.628 134)	(1) G191B2B	COS/FUV, TIME-TAG, BOA	G130M 1291 A	BUFFER-TIME=40 0;	FP-POS=4; WAVECAL=YES		220 Secs (220 Secs)		
								[==>]	[1]	
8		WAVE	COS/FUV, TIME-TAG, WCA	G160M 1623 A	BUFFER-TIME=12 0;	FP-POS=3; FLASH=NO				
								[==>]	[1]	
9		WAVE	COS/FUV, TIME-TAG, WCA	G140L 1280 A	BUFFER-TIME=12 0;	FP-POS=3; FLASH=NO				
								[==>]	[1]	

