



## 12085 - STIS/E230M observations of HD6655 for calibration of COS/G230L

Cycle: 17, 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	(1) HD-6655	STIS/CCD STIS/NUV-MAMA	1	10-Mar-2010 21:50:40.0	yes

1 Total Orbits Used

### ABSTRACT

This program observes HD 6655, a radial velocity target that is used for calibrating COS/G230L. The objective of this program is to get STIS data of this target, with the E230M grating, and then use this observations to derive the offsets between the internal and external COS/G230L wavelength scales.

### OBSERVING DESCRIPTION

This program observes HD6655, a radial velocity standard that is used for wavelength calibration of the COS/G230L grating, with STIS/E230M/c2707.

This target was observed by COS/G230L in the NUV wavelength calibration program executed during SMOV. These STIS observations will help us to determine the offsets of the COS/FG230L internal to external wavelength scales.

Observing HD6655 with this STIS setting will allow us to obtain S/N ~ 20 at 2350 Å. The STIS data will overlap with stripe B of the COS/G230L 2635, 2950, and 3000 Å waves, as well as with the stripe A of the 3360 Å wave.

<b>Visit</b>	Proposal 12085, Visit 01 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/NUV-MAMA Special Requirements: (none)									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	HD-6655	RA: 01 05 18.2073 (16.3258637d) Dec: -72 33 14.47 (-72.55402d) Equinox: J2000		V=8.06	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) HD-6655	(1) HD-6655	STIS/CCD, ACQ, F28X500II	MIRROR				0.2 Secs	
									[==>]	[1]
	2	(1) HD-6655	(1) HD-6655	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A				2500 Secs	
									[==>]	[1]
Comments: S/N=20 at 2350 => t=2015 sec STIS.A228808										
<b>Orbit Structure</b>	<b>Orbit 1</b>									
	Server Version: 20100218 Unused Visibility = 328									
<p>The diagram illustrates the orbit structure for Orbit 1, showing a timeline from 0 to 5500 seconds. Key events include GS Acq at ~100s, Exp. 1 at ~400s, Exp. 2 (Auto-WAYBCAL) at ~700s, a second Exp. 2 at ~850s, and a large gap until ~3300s. After 3300s, there is an Exp. 2 (Auto-WAYBCAL) at ~3400s, Home at ~3500s, and Occultation at ~3600s. The timeline ends at ~5500s.</p>										