



## 11652 - Throughput Calibration of the 52x0.2E1 Aperture

Cycle: 17, Proposal Category: GO

(Calibration)

(Availability Mode: AVAILABLE)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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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) BD+75D325 CCDFLAT	STIS/CCD	1	14-Nov-2008 21:04:58.0	yes

1 Total Orbits Used

### ABSTRACT

The Next Generation Spectral Library (NGSL) is a library of low-dispersion STIS spectra extending from ~0.2-1.0 microns. So far, 378 stars with a wide range in metallicity have been observed. Despite their high S/N>100, many NGSL spectra have 5-10% systematic errors in their spectral energy distributions, which can be traced to throughput variations in the 52x0.2E1 aperture caused by vignetting of a wavelength-dependent asymmetric PSF. We propose to obtain STIS spectra of the HST standard star, BD+75D325, at several positions in the 52x0.2E1 aperture, which will enable us to calibrate the NGSL spectra properly.

**OBSERVING DESCRIPTION**

We will obtain STIS spectra of the HST standard star, BD+75D325, at several positions in the 52x0.2E1 aperture, which will enable us to calibrate the throughput of the aperture at all wavelengths.

**CALIBRATION JUSTIFICATION**

This is a 1-orbit calibration observation.

Proposal 11652 - Visit 01 - Throughput Calibration of the 52x0.2E1 Aperture

Sat Nov 15 02:05:07 GMT 2008

<b>Visit</b>	<b>Proposal 11652, Visit 01, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/CCD Special Requirements: BEFORE 21-JUL-2009:00:00:00; VISIBILITY INTERVAL 62 M <i>Comments: Note that a visibility period of 62 minutes is assumed.</i>									
	<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)		BD+75D325	RA: 08 10 49.4903 (122.7062096d) Dec: +74 57 57.93 (74.96609d) Equinox: J2000		V=9.5	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
<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/[Actual Dur.]</b>	<b>Orbit</b>
	1	(1) BD+75D325	STIS/CCD, ACQ, F28X500II	MIRROR					5 Secs	
									[==>]	[1]
	2	(1) BD+75D325	STIS/CCD, ACQ/PEAK, 52X0.1E1	G430L 4300 A					1 Secs	
									[==>]	[1]
	3	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0,0			10 Secs	
									[==>]	[1]
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>										
4	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.010,0			10 Secs		
								[==>]	[1]	
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>										
5	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.02,0			10 Secs		
								[==>]	[1]	
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>										
6	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.03,0			10 Secs		
								[==>]	[1]	
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>										

Proposal 11652 - Visit 01 - Throughput Calibration of the 52x0.2E1 Aperture

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
7		(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.04,0		10 Secs	[1]
				4300 A				[==>]	
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
8		(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.05,0		10 Secs	[1]
				4300 A				[==>]	
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
9		(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.06,0		10 Secs	[1]
				4300 A				[==>]	
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
10		(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0,0		10 Secs	[1]
				4300 A				[==>]	
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
11		(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.01,0		10 Secs	[1]
				4300 A				[==>]	
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
12		(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.02,0		10 Secs	[1]
				4300 A				[==>]	
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
13		(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.03,0		10 Secs	[1]
				4300 A				[==>]	
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
14		(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.04,0		10 Secs	[1]
				4300 A				[==>]	
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									

Exposures (continued)

Proposal 11652 - Visit 01 - Throughput Calibration of the 52x0.2E1 Aperture

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
15	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.05,0	10 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
16	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.060,0	10 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
17	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
18	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.01,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
19	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.02,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
20	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.03,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
21	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.04,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
22	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.05,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									

Exposures (continued)

Proposal 11652 - Visit 01 - Throughput Calibration of the 52x0.2E1 Aperture

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
23	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.06,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
24	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
25	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.01,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
26	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.02,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
27	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.03,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
28	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.04,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
29	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.05,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
30	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.060,0	5 Secs			
						[==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									

Exposures (continued)

Proposal 11652 - Visit 01 - Throughput Calibration of the 52x0.2E1 Aperture

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	31	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0,0		15 Secs [==>]	[1]	
	<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
	32	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.01,0		15 Secs [==>]	[1]	
	<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
	33	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.02,0		15 Secs [==>]	[1]	
	<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
	34	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.03,0		15 Secs [==>]	[1]	
	<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
35	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.04,0		15 Secs [==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>										
36	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.05,0		15 Secs [==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>										
37	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG -0.06,0		15 Secs [==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>										
38	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0,0		15 Secs [==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>										

Proposal 11652 - Visit 01 - Throughput Calibration of the 52x0.2E1 Aperture

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	39	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.01,0		15 Secs [==>]	[1]	
	<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
	40	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.02,0		15 Secs [==>]	[1]	
	<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
	41	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.03,0		15 Secs [==>]	[1]	
	<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>									
	42	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.04,0		15 Secs [==>]	[1]	
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>										
43	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.05,0		15 Secs [==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>										
44	(1) BD+75D325	STIS/CCD, ACCUM, 52X0.2E1	G750L 7751 A	CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO	POS TARG 0.060,0		15 Secs [==>]	[1]		
<i>Comments: Needed to change proposal to AVAILABLE in order to get WAVECAL=NO (need STScI premission to do this).</i>										
45	CCDFLAT	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A					12.5 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[1]	

Proposal 11652 - Visit 01 - Throughput Calibration of the 52x0.2E1 Aperture

