10482 - Trigonometric Calibration of the Period- Luminosity Relations for Fundamental and First-Overtone Galactic Cepheids

Cycle: 14, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	*Institution*	*E-Mail*
Dr. Howard E. Bond (PI)	**Space Telescope Science Institute**	**bond@stsci.edu**
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VISITS

Visit	*Targets*	*Configurations*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) POLARIS-B (11) POLARIS-REF10 (10) POLARIS-REF9 (9) POLARIS-REF8 (2) POLARIS-REF1 (4) POLARIS-REF3 (8) POLARIS-REF7 (5) POLARIS-REF4 (14) POLARIS-REF13 (13) POLARIS-REF12	FGS	1	12-Dec-2005 21:02:40.0	yes
02	(1) POLARIS-B (11) POLARIS-REF10 (10) POLARIS-REF9 (9) POLARIS-REF8 (2) POLARIS-REF1 (4) POLARIS-REF3 (8) POLARIS-REF7 (5) POLARIS-REF4 (14) POLARIS-REF13 (13) POLARIS-REF12	FGS	1	12-Dec-2005 21:02:53.0	yes

Visit	*Targets*	*Configurations*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
07	(17) SUCAS-REF2 (21) SUCAS-GSC1 (18) SUCAS-REF3 (23) SUCAS-GSC3 (20) SUCAS-REF5 (16) SUCAS-REF1 (24) SUCAS-GSC4 (22) SUCAS-GSC2 (19) SUCAS-REF4 (15) SUCAS	FGS	1	12-Dec-2005 21:03:08.0	yes
08	(17) SUCAS-REF2 (21) SUCAS-GSC1 (18) SUCAS-REF3 (23) SUCAS-GSC3 (20) SUCAS-REF5 (16) SUCAS-REF1 (24) SUCAS-GSC4 (22) SUCAS-GSC2 (19) SUCAS-REF4 (15) SUCAS	FGS	1	12-Dec-2005 21:03:20.0	yes

Visit	*Targets*	*Configurations*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
11	(29) DT-CYG-REF4 (25) DT-CYG (26) DT-CYG-REF1 (30) DT-CYG-REF5 (34) DT-CYG-REF9 (33) DT-CYG-REF8 (27) DT-CYG-REF2 (35) DT-CYG-REF10 (28) DT-CYG-REF3 (31) DT-CYG-REF6 (32) DT-CYG-REF7	FGS	1	12-Dec-2005 21:03:34.0	yes
12	(29) DT-CYG-REF4 (25) DT-CYG (26) DT-CYG-REF1 (30) DT-CYG-REF5 (34) DT-CYG-REF9 (33) DT-CYG-REF8 (27) DT-CYG-REF2 (35) DT-CYG-REF10 (28) DT-CYG-REF3 (31) DT-CYG-REF6 (32) DT-CYG-REF7	FGS	1	12-Dec-2005 21:03:51.0	yes

6 Total Orbits Used

ABSTRACT

Cepheids are the primary distance indicators for the extragalactic distance scale and the Hubble constant. The Hubble Constant Key Project set the zero-point for their Cepheid distance scale by adopting a distance to the LMC, averaged over a variety of techniques. However, different methods give an LMC distance modulus ranging from 18.1 to 18.8, and the uncertainty in the Cepheid zero-point is now the largest contributor to the error budget for H_0. Moreover, the low metallicity of the LMC raises additional concerns, since the PL relation probably depends on metallicity. The zero-point can be determined from Hipparcos parallaxes of Galactic Cepheids out to several hundred parsecs, but with a typical parallax error of 0.5-1 mas, the Hipparcos error bars are uncomfortably large for this demanding application. By contrast, HST's FGS1R interferometer can achieve astrometric accuracy of 0.2 mas. We propose to use FGS1R to determine trigonometric parallaxes for a sample of 9 nearby Cepheids, including both fundamental (F) and first-overtone (FO) pulsators. We show that the improvement in the PL relations for F and FO Cepheids will be dramatic. We will determine the PL slopes from our nearby solar-metallicity sample alone, without recourse to nearby galaxies and the issue of [Fe/H] dependence. The zero-point will be determined robustly to about 0.05 mag, based on accurate, purely geometrical measurements. All of this can be achieved in the next few years with HST, without having to wait for the technically demanding and risky SIM and GAIA missions well into the next decade.

OBSERVING DESCRIPTION

We will use FGS1r in its high precison astrometric mode (POS) to determine trigonometric parallax for three first overtone pulsating Cepheids, Polaris, SU Cas, and DT Cyg. Each of these stars will be observed along with reference field stars at epochs of maximum parallax factor, for a total of 5 epochs spanning 2 years. The high declinantion of Polaris results in a nearly circular parallactic elipse which allows us to choose the observing epochs, which will still be space 6 months apart, when the HST orientation is most favorable for optimizing the distribution of reference stars in the

FGS FOV. For all three targets, each epoch will consist of 2 single-orbit HST visits spaced approximately 2 weeks apart. The bright Cepheids will be observed with the F5ND attenuator, the reference stars with the F583W broad band filter. Polaris itself is too bright for the FGS, even with the F5ND setting. Instead, we will observe Polaris-B, the Cepheid's common proper motion companion. Through Polaris-B we will obtain the parallax to Polaris. We note the Polaris-B is a mere 18" from Polaris. There is a (very) small risk that the FGS will acquire Polaris instead of Polaris-B. This will cause the instrument's PMT data register to overflow, causing the observation to fail. Fortunately, Polaris-B, at V=8.4, is bright enough to observe through the F5ND. Thus, to eliminate any health and safety risks to FGS1r, we will use the F5ND attenuator when observing Polaris-B..

Visit

Proposal 10482, Visit 01 Tue Dec 13 02:03:55 GMT 2005

Diagnostic Status: No Diagnostics

Scientific Instruments: FGS

Special Requirements: PCS MODE FINE; SCHED 70%; ORIENT 202.0D TO 203.0 D; BETWEEN 01-SEP-2006:00:00:00 AND 26-OCT-2006:00:00:00

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	POLARIS-B	RA: 02 30 43.5000 (37.6812500d) Dec: +89 15 38.60 (89.26072d) Equinox: J2000 Plate Id: (?)		V=8.5+/-0.2	Coordinate Source: Literature
(2)	POLARIS-REF1	RA: 02 37 32.3900 (39.3849583d) Dec: +89 20 0.10 (89.33336d) Equinox: J2000 Plate Id: (?)		V=11.0+/-0.4	Coordinate Source: GSC_SURVEY_PLATE
(4)	POLARIS-REF3	RA: 02 34 4.9000 (38.5204167d) Dec: +89 19 11.60 (89.31989d) Equinox: J2000 Plate Id: (?)		V=15.0+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG
(5)	POLARIS-REF4	RA: 02 25 23.7000 (36.3487500d) Dec: +89 16 4.10 (89.26781d) Equinox: J2000 Plate Id: (?)		V=14.0+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG
(8)	POLARIS-REF7	RA: 02 30 48.2000 (37.7008333d) Dec: +89 14 30.20 (89.24172d) Equinox: J2000 Plate Id: (?)		V=14.0+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG
(9)	POLARIS-REF8	RA: 02 25 26.6000 (36.3608333d) Dec: +89 14 26.20 (89.24061d) Equinox: J2000 Plate Id: (?)		V=14.0+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG
(10)	POLARIS-REF9	RA: 02 21 18.2000 (35.3258333d) Dec: +89 13 37.50 (89.22708d) Equinox: J2000 Plate Id: (?)		V=13.5+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG
(11)	POLARIS-REF10	RA: 02 32 25.8000 (38.1075000d) Dec: +89 12 9.20 (89.20256d) Equinox: J2000 Plate Id: (?)		V=12.0+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	POLARIS-REF12	RA: 02 25 45.0000 (36.4375000d) Dec: +89 12 24.40 (89.20678d) Equinox: J2000 Plate Id: (?)		V=14.5+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG
(14)	POLARIS-REF13	RA: 02 25 58.3000 (36.4929167d) Dec: +89 12 12.90 (89.20358d) Equinox: J2000 Plate Id: (?)		V=15.5+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(11) POLARIS-REF 10	FGS, POS, 1	F583W		POS TARG -162,65	Sequence 1-26 Non-Int	15.0 Secs	
								[==>]	***[1]***
2		(1) POLARIS-B	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-26 Non-Int	15.0 Secs	
								[==>]	***[1]***
3		(2) POLARIS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
4		(4) POLARIS-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	40.0 Secs	
								[==>]	***[1]***
5		(5) POLARIS-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
6		(1) POLARIS-B	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
7		(11) POLARIS-REF 10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
8		(8) POLARIS-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
9		(9) POLARIS-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
10		(10) POLARIS-REF 9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
11		(11) POLARIS-REF 10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
12		(1) POLARIS-B	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
13		(2) POLARIS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
14		(4) POLARIS-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	40.0 Secs	
								[==>]	***[1]***
15		(5) POLARIS-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
16		(1) POLARIS-B	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
17		(11) POLARIS-REF 10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
18		(13) POLARIS-REF 12	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
19		(14) POLARIS-REF 13	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
20		(10) POLARIS-REF 9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
21		(9) POLARIS-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
22		(8) POLARIS-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
23		(1) POLARIS-B	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
24		(5) POLARIS-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
25		(2) POLARIS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
26		(11) POLARIS-REF 10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***

Visit

Proposal 10482, Visit 02 Tue Dec 13 02:03:56 GMT 2005

Diagnostic Status: No Diagnostics

Scientific Instruments: FGS

Special Requirements: PCS MODE FINE; SCHED 70%; ORIENT 202.0D TO 203.0 D; BETWEEN 01-SEP-2006:00:00:00 AND 26-OCT-2006:00:00:00

Fixed Targets

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(2)	POLARIS-REF1	RA: 02 37 32.3900 (39.3849583d) Dec: +89 20 0.10 (89.33336d) Equinox: J2000 Plate Id: (?)		V=11.0+/-0.4	Coordinate Source: GSC_SURVEY_PLATE
(4)	POLARIS-REF3	RA: 02 34 4.9000 (38.5204167d) Dec: +89 19 11.60 (89.31989d) Equinox: J2000 Plate Id: (?)		V=15.0+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG
(5)	POLARIS-REF4	RA: 02 25 23.7000 (36.3487500d) Dec: +89 16 4.10 (89.26781d) Equinox: J2000 Plate Id: (?)		V=14.0+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG
(8)	POLARIS-REF7	RA: 02 30 48.2000 (37.7008333d) Dec: +89 14 30.20 (89.24172d) Equinox: J2000 Plate Id: (?)		V=14.0+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG
(9)	POLARIS-REF8	RA: 02 25 26.6000 (36.3608333d) Dec: +89 14 26.20 (89.24061d) Equinox: J2000 Plate Id: (?)		V=14.0+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG
(10)	POLARIS-REF9	RA: 02 21 18.2000 (35.3258333d) Dec: +89 13 37.50 (89.22708d) Equinox: J2000 Plate Id: (?)		V=13.5+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG
(11)	POLARIS-REF10	RA: 02 32 25.8000 (38.1075000d) Dec: +89 12 9.20 (89.20256d) Equinox: J2000 Plate Id: (?)		V=12.0+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	POLARIS-REF12	RA: 02 25 45.0000 (36.4375000d) Dec: +89 12 24.40 (89.20678d) Equinox: J2000 Plate Id: (?)		V=14.5+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG
(14)	POLARIS-REF13	RA: 02 25 58.3000 (36.4929167d) Dec: +89 12 12.90 (89.20358d) Equinox: J2000 Plate Id: (?)		V=15.5+/-0.4	Coordinate Source: GUIDE_STAR_CATALOG

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(11) POLARIS-REF 10	FGS, POS, 1	F583W		POS TARG -162,65	Sequence 1-26 Non-Int	15.0 Secs	
								[==>]	***[1]***
2		(1) POLARIS-B	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-26 Non-Int	15.0 Secs	
								[==>]	***[1]***
3		(2) POLARIS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
4		(4) POLARIS-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	40.0 Secs	
								[==>]	***[1]***
5		(5) POLARIS-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
6		(1) POLARIS-B	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
7		(11) POLARIS-REF 10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
8		(8) POLARIS-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
9		(9) POLARIS-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
10		(10) POLARIS-REF 9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
11		(11) POLARIS-REF 10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
12		(1) POLARIS-B	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
13		(2) POLARIS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
14		(4) POLARIS-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	40.0 Secs	
								[==>]	***[1]***
15		(5) POLARIS-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
16		(1) POLARIS-B	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
17		(11) POLARIS-REF 10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
18		(13) POLARIS-REF 12	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
19		(14) POLARIS-REF 13	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
20		(10) POLARIS-REF 9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
21		(9) POLARIS-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
22		(8) POLARIS-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
23		(1) POLARIS-B	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
24		(5) POLARIS-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
25		(2) POLARIS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***
26		(11) POLARIS-REF 10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	10.0 Secs	
								[==>]	***[1]***

Visit

Proposal 10482, Visit 07 Tue Dec 13 02:03:57 GMT 2005

Diagnostic Status: No Diagnostics

Scientific Instruments: FGS

Special Requirements: PCS MODE FINE; SCHED 30%; ORIENT 90.0D TO 90.0 D; BETWEEN 01-FEB-2006:00:00:00 AND 16-FEB-2006:00:00:00

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	SUCAS Alt Name1: HD17463, HIP13367,SAO12472	RA: 02 51 58.7500 (42.9947917d) Dec: +68 53 18.60 (68.88850d) Equinox: J2000 Plate Id: (?)		V=6.6+/-0.1	Coordinate Source: IMAGE_TIED_TO_GSC_FRAME
(16)	SUCAS-REF1 Alt Name1: GSC4313.00699	RA: 02 51 48.6600 (42.9527500d) Dec: +68 52 57.54 (68.88265d) Equinox: J2000 Plate Id: 01MR		V=10.7+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(17)	SUCAS-REF2 Alt Name1: GSC4313.00279	RA: 02 50 54.5400 (42.7272500d) Dec: +68 53 42.61 (68.89517d) Equinox: J2000 Plate Id: 01MR		V=13.95+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(18)	SUCAS-REF3 Alt Name1: GSC4313.00924	RA: 02 51 17.9900 (42.8249583d) Dec: +68 52 5.41 (68.86817d) Equinox: J2000 Plate Id: 01MR		V=13.6+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(19)	SUCAS-REF4 Alt Name1: GSC4313.01283	RA: 02 53 7.4000 (43.2808333d) Dec: +68 53 2.62 (68.88406d) Equinox: J2000 Plate Id: 01MR		V=12.53+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(20)	SUCAS-REF5 Alt Name1: GSC4313.00721	RA: 02 52 31.3900 (43.1307917d) Dec: +68 51 40.10 (68.86114d) Equinox: J2000 Plate Id: 01MR		V=15.01+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(21)	SUCAS-GSC1 Alt Name1: N31330112165	RA: 02 51 30.6000 (42.8775000d) Dec: +68 53 0.80 (68.88356d) Equinox: J2000 Plate Id: (?)		V=15.0+/-0.2	Coordinate Source: GSC2.1
(22)	SUCAS-GSC2 Alt Name1: N31330112551	RA: 02 51 31.3200 (42.8805000d) Dec: +68 53 55.91 (68.89886d) Equinox: J2000 Plate Id: (?)		V=15.0+/-0.2	Coordinate Source: GSC2.1

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(23)	SUCAS-GSC3 Alt Name1: N31339112036	RA: 02 51 20.6000 (42.8358333d) Dec: +68 52 46.10 (68.87947d) Equinox: J2000 Plate Id: (?)		V=15.0+/-0.2	Coordinate Source: GSC2.1
(24)	SUCAS-GSC4 Alt Name1: N31330113061	RA: 02 52 28.7700 (43.1198750d) Dec: +68 54 48.46 (68.91346d) Equinox: J2000 Plate Id: (?)		V=14.5+/-0.2	Coordinate Source: GSC2.1

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(15) SUCAS	FGS, POS, 1	F5ND		POS TARG -50,-35	Sequence 1-25 Non-Int	8.0 Secs	
								[==>]	***[1]***
2		(16) SUCAS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
3		(18) SUCAS-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
4		(23) SUCAS-GSC3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
5		(22) SUCAS-GSC2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
6		(21) SUCAS-GSC1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
7		(15) SUCAS	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-25 Non-Int	8.0 Secs	
								[==>]	***[1]***
8		(16) SUCAS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
9		(24) SUCAS-GSC4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
10		(19) SUCAS-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
11		(20) SUCAS-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
12		(15) SUCAS	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-25 Non-Int	8.0 Secs	
								[==>]	***[1]***
13		(16) SUCAS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
14		(17) SUCAS-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
15		(18) SUCAS-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	20.0 Secs	
								[==>]	***[1]***
16		(23) SUCAS-GSC3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
17		(21) SUCAS-GSC1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
18		(22) SUCAS-GSC2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
19		(16) SUCAS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
20		(15) SUCAS	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-25 Non-Int	8.0 Secs	
								[==>]	***[1]***
21		(19) SUCAS-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
22		(20) SUCAS-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	25.0 Secs	
								[==>]	***[1]***
23		(24) SUCAS-GSC4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
24		(15) SUCAS	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
25		(16) SUCAS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***

Visit

Proposal 10482, Visit 08 Tue Dec 13 02:04:00 GMT 2005

Diagnostic Status: No Diagnostics

Scientific Instruments: FGS

Special Requirements: PCS MODE FINE; SCHED 30%; ORIENT 90.0D TO 90.0 D; BETWEEN 01-FEB-2006:00:00:00 AND 16-FEB-2006:00:00:00

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	SUCAS Alt Name1: HD17463, HIP13367,SAO12472	RA: 02 51 58.7500 (42.9947917d) Dec: +68 53 18.60 (68.88850d) Equinox: J2000 Plate Id: (?)		V=6.6+/-0.1	Coordinate Source: IMAGE_TIED_TO_GSC_FRAME
(16)	SUCAS-REF1 Alt Name1: GSC4313.00699	RA: 02 51 48.6600 (42.9527500d) Dec: +68 52 57.54 (68.88265d) Equinox: J2000 Plate Id: 01MR		V=10.7+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(17)	SUCAS-REF2 Alt Name1: GSC4313.00279	RA: 02 50 54.5400 (42.7272500d) Dec: +68 53 42.61 (68.89517d) Equinox: J2000 Plate Id: 01MR		V=13.95+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(18)	SUCAS-REF3 Alt Name1: GSC4313.00924	RA: 02 51 17.9900 (42.8249583d) Dec: +68 52 5.41 (68.86817d) Equinox: J2000 Plate Id: 01MR		V=13.6+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(19)	SUCAS-REF4 Alt Name1: GSC4313.01283	RA: 02 53 7.4000 (43.2808333d) Dec: +68 53 2.62 (68.88406d) Equinox: J2000 Plate Id: 01MR		V=12.53+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(20)	SUCAS-REF5 Alt Name1: GSC4313.00721	RA: 02 52 31.3900 (43.1307917d) Dec: +68 51 40.10 (68.86114d) Equinox: J2000 Plate Id: 01MR		V=15.01+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(21)	SUCAS-GSC1 Alt Name1: N31330112165	RA: 02 51 30.6000 (42.8775000d) Dec: +68 53 0.80 (68.88356d) Equinox: J2000 Plate Id: (?)		V=15.0+/-0.2	Coordinate Source: GSC2.1
(22)	SUCAS-GSC2 Alt Name1: N31330112551	RA: 02 51 31.3200 (42.8805000d) Dec: +68 53 55.91 (68.89886d) Equinox: J2000 Plate Id: (?)		V=15.0+/-0.2	Coordinate Source: GSC2.1

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(23)	SUCAS-GSC3 Alt Name1: N31339112036	RA: 02 51 20.6000 (42.8358333d) Dec: +68 52 46.10 (68.87947d) Equinox: J2000 Plate Id: (?)		V=15.0+/-0.2	Coordinate Source: GSC2.1
(24)	SUCAS-GSC4 Alt Name1: N31330113061	RA: 02 52 28.7700 (43.1198750d) Dec: +68 54 48.46 (68.91346d) Equinox: J2000 Plate Id: (?)		V=14.5+/-0.2	Coordinate Source: GSC2.1

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(15) SUCAS	FGS, POS, 1	F5ND		POS TARG -50,-35	Sequence 1-25 Non-Int	8.0 Secs	
								[==>]	***[1]***
2		(16) SUCAS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
3		(18) SUCAS-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
4		(23) SUCAS-GSC3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
5		(22) SUCAS-GSC2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
6		(21) SUCAS-GSC1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
7		(15) SUCAS	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-25 Non-Int	8.0 Secs	
								[==>]	***[1]***
8		(16) SUCAS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
9		(24) SUCAS-GSC4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
10		(19) SUCAS-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
11		(20) SUCAS-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
12		(15) SUCAS	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-25 Non-Int	8.0 Secs	
								[==>]	***[1]***
13		(16) SUCAS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
14		(17) SUCAS-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
15		(18) SUCAS-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	20.0 Secs	
								[==>]	***[1]***
16		(23) SUCAS-GSC3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
17		(21) SUCAS-GSC1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
18		(22) SUCAS-GSC2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
19		(16) SUCAS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
20		(15) SUCAS	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-25 Non-Int	8.0 Secs	
								[==>]	***[1]***
21		(19) SUCAS-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
22		(20) SUCAS-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	25.0 Secs	
								[==>]	***[1]***
23		(24) SUCAS-GSC4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	30.0 Secs	
								[==>]	***[1]***
24		(15) SUCAS	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***
25		(16) SUCAS-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-25 Non-Int	10.0 Secs	
								[==>]	***[1]***

Visit

Proposal 10482, Visit 11 Tue Dec 13 02:04:01 GMT 2005

Diagnostic Status: No Diagnostics

Scientific Instruments: FGS

Special Requirements: PCS MODE FINE; SCHED 30%; ORIENT 250.0D TO 252.5 D; BETWEEN 01-MAY-2006:00:00:00 AND 16-MAY-2006:00:00:00

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(25)	DT-CYG Alt Name1: HD201078, HIP104185, SAO70917	RA: 21 06 30.2400 (316.6260000d) Dec: +31 11 4.80 (31.18467d) Equinox: J2000 Plate Id: (?)		V=5.8+/-0.2	Coordinate Source: HIPPARCOS/TYCHO_CATALOGUE
(26)	DT-CYG-REF1 Alt Name1: GSC2701.01955	RA: 21 06 22.9900 (316.5957917d) Dec: +31 12 1.76 (31.20049d) Equinox: J2000 Plate Id: 0054		V=11.74+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(27)	DT-CYG-REF2 Alt Name1: GSC2701.00776	RA: 21 06 9.4400 (316.5393333d) Dec: +31 11 11.72 (31.18659d) Equinox: J2000 Plate Id: 01ZM		V=9.9+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(28)	DT-CYG-REF3 Alt Name1: GSC2701.03746	RA: 21 06 19.2400 (316.5801667d) Dec: +31 10 13.69 (31.17047d) Equinox: J2000 Plate Id: 0054		V=13.31+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(29)	DT-CYG-REF4 Alt Name1: GSC2701.03488	RA: 21 06 29.5400 (316.6230833d) Dec: +31 09 43.13 (31.16198d) Equinox: J2000 Plate Id: 0054		V=13.6+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(30)	DT-CYG-REF5 Alt Name1: GSC2701.03048	RA: 21 06 35.7800 (316.6490833d) Dec: +31 12 39.20 (31.21089d) Equinox: J2000 Plate Id: 0054		V=13.34+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(31)	DT-CYG-REF6 Alt Name1: GSC2701.02920	RA: 21 06 44.0600 (316.6835833d) Dec: +31 12 50.62 (31.21406d) Equinox: J2000 Plate Id: 0054		V=13.25+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(32)	DT-CYG-REF7 Alt Name1: GSC2701.03716	RA: 21 06 0.9900 (316.5041250d) Dec: +31 09 18.72 (31.15520d) Equinox: J2000 Plate Id: 0054		V=13.3+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(33)	DT-CYG-REF8 Alt Name1: GSC2701.03702	RA: 21 06 33.2000 (316.6383333d) Dec: +31 10 59.92 (31.18331d) Equinox: J2000 Plate Id: 0054		V=13.45+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(34)	DT-CYG-REF9 Alt Name1: GSC2701.02185	RA: 21 06 39.3000 (316.6637500d) Dec: +31 10 9.80 (31.16939d) Equinox: J2000 Plate Id: 0054		V=13.11+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(35)	DT-CYG-REF10 Alt Name1: GSC2701.02185	RA: 21 06 50.2200 (316.7092500d) Dec: +31 12 16.80 (31.20467d) Equinox: J2000 Plate Id: 0054		V=12.01+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(25) DT-CYG	FGS, POS, 1	F5ND		POS TARG -54,-20	Sequence 1-29 Non-Int	15.0 Secs	
								[==>]	***[1]***
2		(26) DT-CYG-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
3		(27) DT-CYG-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
4		(32) DT-CYG-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
5		(28) DT-CYG-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
6		(25) DT-CYG	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-29 Non-Int	15.0 Secs	
								[==>]	***[1]***
7		(33) DT-CYG-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
8		(29) DT-CYG-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
9		(26) DT-CYG-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
10		(25) DT-CYG	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-29 Non-Int	15.0 Secs	
								[==>]	***[1]***
11		(30) DT-CYG-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
12		(31) DT-CYG-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
13		(35) DT-CYG-REF10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
14		(34) DT-CYG-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
15		(25) DT-CYG	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-29 Non-Int	15.0 Secs	
								[==>]	***[1]***
16		(29) DT-CYG-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
17		(27) DT-CYG-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
18		(32) DT-CYG-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
19		(28) DT-CYG-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
20		(25) DT-CYG	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
21		(33) DT-CYG-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
22		(30) DT-CYG-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
23		(31) DT-CYG-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
24		(35) DT-CYG-REF10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
25		(34) DT-CYG-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
26		(25) DT-CYG	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-29 Non-Int	15.0 Secs	
								[==>]	***[1]***
27		(26) DT-CYG-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
28		(27) DT-CYG-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
29		(28) DT-CYG-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***

Visit

Proposal 10482, Visit 12 Tue Dec 13 02:04:02 GMT 2005

Diagnostic Status: No Diagnostics

Scientific Instruments: FGS

Special Requirements: PCS MODE FINE; SCHED 30%; ORIENT 250.0D TO 252.5 D; BETWEEN 01-MAY-2006:00:00:00 AND 16-MAY-2006:00:00:00

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(25)	DT-CYG Alt Name1: HD201078, HIP104185, SAO70917	RA: 21 06 30.2400 (316.6260000d) Dec: +31 11 4.80 (31.18467d) Equinox: J2000 Plate Id: (?)		V=5.8+/-0.2	Coordinate Source: HIPPARCOS/TYCHO_CATALOGUE
(26)	DT-CYG-REF1 Alt Name1: GSC2701.01955	RA: 21 06 22.9900 (316.5957917d) Dec: +31 12 1.76 (31.20049d) Equinox: J2000 Plate Id: 0054		V=11.74+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(27)	DT-CYG-REF2 Alt Name1: GSC2701.00776	RA: 21 06 9.4400 (316.5393333d) Dec: +31 11 11.72 (31.18659d) Equinox: J2000 Plate Id: 01ZM		V=9.9+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(28)	DT-CYG-REF3 Alt Name1: GSC2701.03746	RA: 21 06 19.2400 (316.5801667d) Dec: +31 10 13.69 (31.17047d) Equinox: J2000 Plate Id: 0054		V=13.31+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(29)	DT-CYG-REF4 Alt Name1: GSC2701.03488	RA: 21 06 29.5400 (316.6230833d) Dec: +31 09 43.13 (31.16198d) Equinox: J2000 Plate Id: 0054		V=13.6+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(30)	DT-CYG-REF5 Alt Name1: GSC2701.03048	RA: 21 06 35.7800 (316.6490833d) Dec: +31 12 39.20 (31.21089d) Equinox: J2000 Plate Id: 0054		V=13.34+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(31)	DT-CYG-REF6 Alt Name1: GSC2701.02920	RA: 21 06 44.0600 (316.6835833d) Dec: +31 12 50.62 (31.21406d) Equinox: J2000 Plate Id: 0054		V=13.25+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(32)	DT-CYG-REF7 Alt Name1: GSC2701.03716	RA: 21 06 0.9900 (316.5041250d) Dec: +31 09 18.72 (31.15520d) Equinox: J2000 Plate Id: 0054		V=13.3+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(33)	DT-CYG-REF8 Alt Name1: GSC2701.03702	RA: 21 06 33.2000 (316.6383333d) Dec: +31 10 59.92 (31.18331d) Equinox: J2000 Plate Id: 0054		V=13.45+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(34)	DT-CYG-REF9 Alt Name1: GSC2701.02185	RA: 21 06 39.3000 (316.6637500d) Dec: +31 10 9.80 (31.16939d) Equinox: J2000 Plate Id: 0054		V=13.11+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG
(35)	DT-CYG-REF10 Alt Name1: GSC2701.02185	RA: 21 06 50.2200 (316.7092500d) Dec: +31 12 16.80 (31.20467d) Equinox: J2000 Plate Id: 0054		V=12.01+/-0.2	Coordinate Source: GUIDE_STAR_CATALOG

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(25) DT-CYG	FGS, POS, 1	F5ND		POS TARG -54,-20	Sequence 1-29 Non-Int	15.0 Secs	
								[==>]	***[1]***
2		(26) DT-CYG-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
3		(27) DT-CYG-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
4		(32) DT-CYG-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
5		(28) DT-CYG-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
6		(25) DT-CYG	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-29 Non-Int	15.0 Secs	
								[==>]	***[1]***
7		(33) DT-CYG-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
8		(29) DT-CYG-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
9		(26) DT-CYG-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
10		(25) DT-CYG	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-29 Non-Int	15.0 Secs	
								[==>]	***[1]***
11		(30) DT-CYG-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
12		(31) DT-CYG-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
13		(35) DT-CYG-REF10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
14		(34) DT-CYG-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
15		(25) DT-CYG	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-29 Non-Int	15.0 Secs	
								[==>]	***[1]***
16		(29) DT-CYG-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
17		(27) DT-CYG-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
18		(32) DT-CYG-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
19		(28) DT-CYG-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
20		(25) DT-CYG	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
21		(33) DT-CYG-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
22		(30) DT-CYG-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
23		(31) DT-CYG-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
24		(35) DT-CYG-REF10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
25		(34) DT-CYG-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
26		(25) DT-CYG	FGS, POS, 1	F5ND		SAME POS AS 1	Sequence 1-29 Non-Int	15.0 Secs	
								[==>]	***[1]***
27		(26) DT-CYG-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
28		(27) DT-CYG-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***
29		(28) DT-CYG-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
								[==>]	***[1]***