11785 - Trigonometric Calibration of the Distance Scale for Classical Novae

Cycle: 17, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
13	(1) V603-AQL (6) V603-REF1 (8) V603-REF3 (9) V603-REF4 (12) V603-REF7 (13) V603-REF8 (14) V603-REF9	FGS	1	07-Oct-2009 21:21:11.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
14	(1) V603-AQL (6) V603-REF1 (8) V603-REF3 (9) V603-REF4 (12) V603-REF7 (13) V603-REF8 (14) V603-REF9	FGS	1	07-Oct-2009 21:21:22.0	yes
23	(2) GK-PER (15) GKPER-REF1 (16) GKPER-REF2 (17) GKPER-REF3 (19) GKPER-REF5 (20) GKPER-REF6 (21) GKPER-REF7 (22) GKPER-REF8 (23) GKPER-REF9	FGS	1	07-Oct-2009 21:21:31.0	yes
24	(2) GK-PER (15) GKPER-REF1 (16) GKPER-REF2 (17) GKPER-REF3 (19) GKPER-REF5 (20) GKPER-REF6 (21) GKPER-REF7 (22) GKPER-REF8 (23) GKPER-REF9	FGS	1	07-Oct-2009 21:21:42.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
33	(3) RR-PIC (25) RRPIC-REF1 (27) RRPIC-REF3 (28) RRPIC-REF4 (29) RRPIC-REF5 (30) RRPIC-REF6 (31) RRPIC-REF7 (32) RRPIC-REF8 (33) RRPIC-REF9 (34) RRPIC-REF10 (35) RRPIC-REF11 (36) RRPIC-REF12	FGS	1	07-Oct-2009 21:21:51.0	yes
34	(3) RR-PIC (25) RRPIC-REF1 (27) RRPIC-REF3 (28) RRPIC-REF4 (29) RRPIC-REF5 (30) RRPIC-REF6 (31) RRPIC-REF7 (32) RRPIC-REF8 (33) RRPIC-REF9 (34) RRPIC-REF10 (35) RRPIC-REF11 (36) RRPIC-REF12	FGS	1	07-Oct-2009 21:22:02.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
43	(5) DQ-HER (37) DQHER-REF1 (38) DQHER-REF2 (39) DQHER-REF3 (40) DQHER-REF4 (41) DQHER-REF5 (42) DQHER-REF6 (43) DQHER-REF7 (44) DQHER-REF8 (45) DQHER-REF9	FGS	1	07-Oct-2009 21:22:12.0	yes
44	(5) DQ-HER (37) DQHER-REF1 (38) DQHER-REF2 (39) DQHER-REF3 (40) DQHER-REF4 (41) DQHER-REF5 (42) DQHER-REF6 (43) DQHER-REF7 (44) DQHER-REF8 (45) DQHER-REF9	FGS	1	07-Oct-2009 21:22:24.0	yes

8 Total Orbits Used

ABSTRACT

The distance scale for classical novae is important for understanding the stellar physics of their thermonuclear runaways, their contribution to Galactic nucleosynthesis, and their use as extragalactic standard candles. Although it is known that there is a relationship between their absolute magnitudes at maximum light and their subsequent rates of decline--the well-known maximum-magnitude rate-of-decline (MMRD) relation--it is

difficult to set the zero-point for the MMRD because of the very uncertain distances of Galactic novae.

We propose to measure precise trigonometric parallaxes for the quiescent remnants of the four nearest classical novae. We will use the Fine Guidance Sensors, which are proven to be capable of measuring parallaxes with errors of ~0.2 mas, well below what is possible from the ground.

OBSERVING DESCRIPTION

The target stars and thier associated reference stars will be observed at 2 epochs in Cycle 15. Each epoch will be comprised of two single-orbit HST visits. In each visit, the target and field stars will be observed multiple times in a sequential fashion by FGS1r in Position mode with the F583W filter for stars with V>8, or the F5ND attenuator for stars with V<8. Exposure times will be on the order of 10 second for each exposure.

Visit

Proposal 11785, Visit 13, implementation Thu Oct 08 01:22:29 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: FGS

Special Requirements: PCS MODE FINE; GYRO MODE 3GOBAD; SCHED 70%; ORIENT 80D TO 80 D; BETWEEN 05-OCT-2009:00:00:00 AND 29-OCT-2009:00:00:00

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V603-AQL Alt Name1: HD174107 Alt Name2: GSC99448-00423	RA: 18 48 54.6366 (282.2276525d) Dec: +00 35 2.86 (.58413d) Equinox: J2000		V=11.64+/-0.1 B = 11.65	Reference Frame: ICRS
Comments: This object was generated by the target selector and retrieved from the SIMBAD database.					
(6)	V603-REF1 Alt Name1: N1NN000210	RA: 18 49 19.3000 (282.3304167d) Dec: +00 34 26.30 (.57397d) Equinox: J2000		V=13.3+/-0.3 FPG=12.6, JPG=14.5, N=12.2	Reference Frame: ICRS
(8)	V603-REF3 Alt Name1: N1NN009734	RA: 18 48 48.2000 (282.2008333d) Dec: +00 34 59.80 (.58328d) Equinox: J2000		V=15.7+/-0.1 FPG=14.95, JPG=16.8, N=13.96	Reference Frame: ICRS
(9)	V603-REF4 Alt Name1: N1NN010051	RA: 18 48 46.3000 (282.1929167d) Dec: +00 35 50.55 (.59738d) Equinox: J2000		V=14.07+/-0.1 FPG=12.77, JPG=15.85, N=11.58	Reference Frame: ICRS
(12)	V603-REF7 Alt Name1: N1NN010276	RA: 18 48 55.8000 (282.2325000d) Dec: +00 36 28.80 (.60800d) Equinox: J2000		V=15.3+/-0.1 FPG=14.2, JPG=17.0, N=12.85	Reference Frame: ICRS
(13)	V603-REF8 Alt Name1: N1NN010192	RA: 18 48 53.0000 (282.2208333d) Dec: +00 36 18.20 (.60506d) Equinox: J2000		V=14.9+/-0.1 FPG=14.43, JPG=15.8, N=13.8	Reference Frame: ICRS
(14)	V603-REF9 Alt Name1: N1NN010326	RA: 18 49 0.7900 (282.2532917d) Dec: +00 36 37.60 (.61044d) Equinox: J2000		V=14.9+/-0.1 FPG=14.05, JPG=16.3, N=12.8, B=17	Reference Frame: ICRS

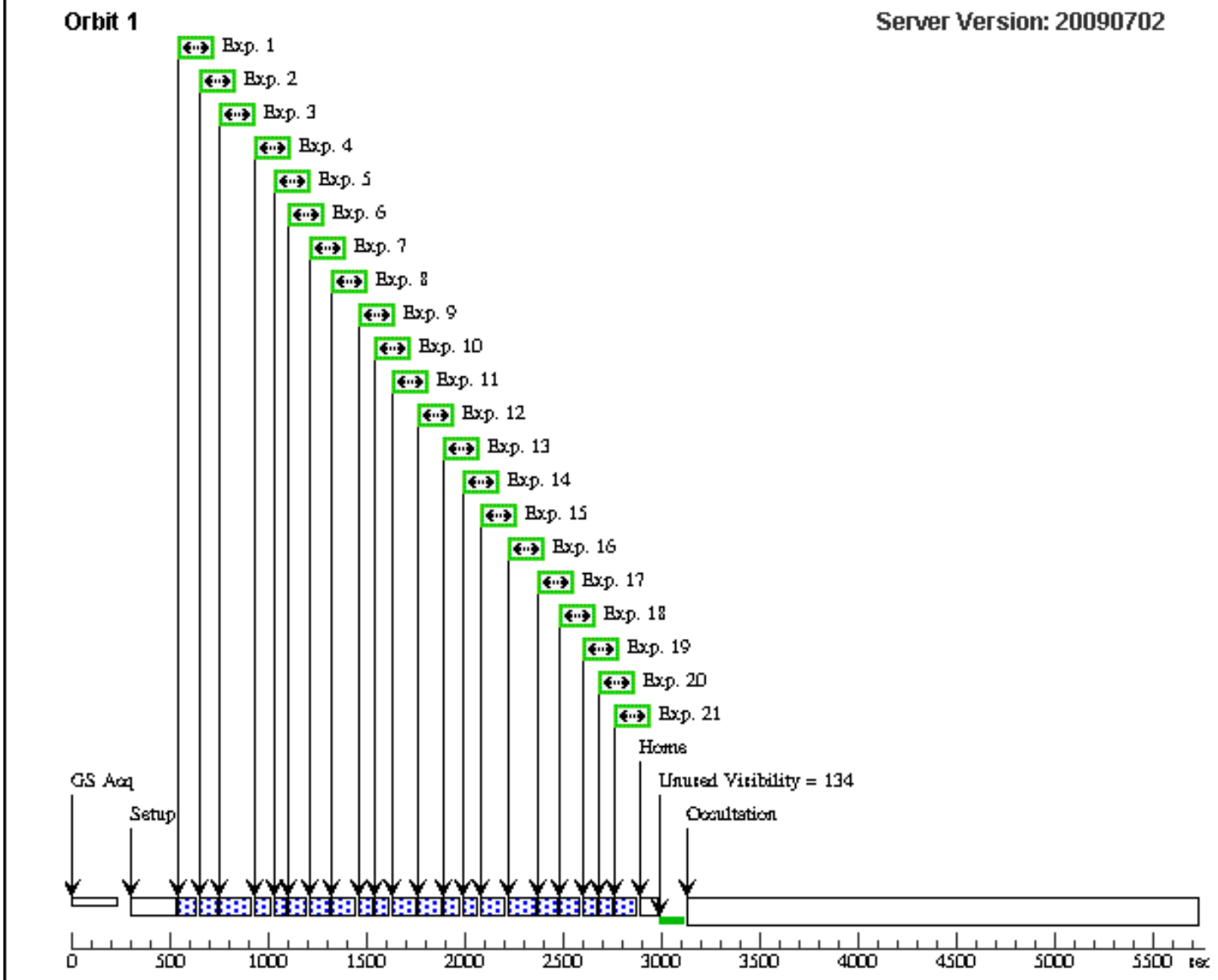
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) V603-AQL	FGS, POS, 1	F583W		POS TARG 120.0,-20.00; GS ACQ SCENARIO ONEB1B3	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
2		(6) V603-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
3		(8) V603-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
4		(9) V603-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
5		(1) V603-AQL	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
6		(14) V603-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
7		(13) V603-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
8		(12) V603-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
9		(1) V603-AQL	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
10		(9) V603-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
11		(8) V603-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
12		(6) V603-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
13		(1) V603-AQL	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
14		(9) V603-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
15		(8) V603-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
16		(12) V603-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
17		(13) V603-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
18		(14) V603-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
19		(1) V603-AQL	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
20		(9) V603-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
21		(6) V603-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 11785, Visit 14, implementation Thu Oct 08 01:22:32 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: FGS

Special Requirements: PCS MODE FINE; GYRO MODE 3GOBAD; SCHED 70%; ORIENT 80.0D TO 80. D; BETWEEN 06-OCT-2009:00:00:00 AND 29-OCT-2009:00:00:00

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V603-AQL Alt Name1: HD174107 Alt Name2: GSC99448-00423	RA: 18 48 54.6366 (282.2276525d) Dec: +00 35 2.86 (.58413d) Equinox: J2000		V=11.64+/-0.1 B = 11.65	Reference Frame: ICRS
Comments: This object was generated by the target selector and retrieved from the SIMBAD database.					
(6)	V603-REF1 Alt Name1: N1NN000210	RA: 18 49 19.3000 (282.3304167d) Dec: +00 34 26.30 (.57397d) Equinox: J2000		V=13.3+/-0.3 FPG=12.6, JPG=14.5, N=12.2	Reference Frame: ICRS
(8)	V603-REF3 Alt Name1: N1NN009734	RA: 18 48 48.2000 (282.2008333d) Dec: +00 34 59.80 (.58328d) Equinox: J2000		V=15.7+/-0.1 FPG=14.95, JPG=16.8, N=13.96	Reference Frame: ICRS
(9)	V603-REF4 Alt Name1: N1NN010051	RA: 18 48 46.3000 (282.1929167d) Dec: +00 35 50.55 (.59738d) Equinox: J2000		V=14.07+/-0.1 FPG=12.77, JPG=15.85, N=11.58	Reference Frame: ICRS
(12)	V603-REF7 Alt Name1: N1NN010276	RA: 18 48 55.8000 (282.2325000d) Dec: +00 36 28.80 (.60800d) Equinox: J2000		V=15.3+/-0.1 FPG=14.2, JPG=17.0, N=12.85	Reference Frame: ICRS
(13)	V603-REF8 Alt Name1: N1NN010192	RA: 18 48 53.0000 (282.2208333d) Dec: +00 36 18.20 (.60506d) Equinox: J2000		V=14.9+/-0.1 FPG=14.43, JPG=15.8, N=13.8	Reference Frame: ICRS
(14)	V603-REF9 Alt Name1: N1NN010326	RA: 18 49 0.7900 (282.2532917d) Dec: +00 36 37.60 (.61044d) Equinox: J2000		V=14.9+/-0.1 FPG=14.05, JPG=16.3, N=12.8, B=17	Reference Frame: ICRS

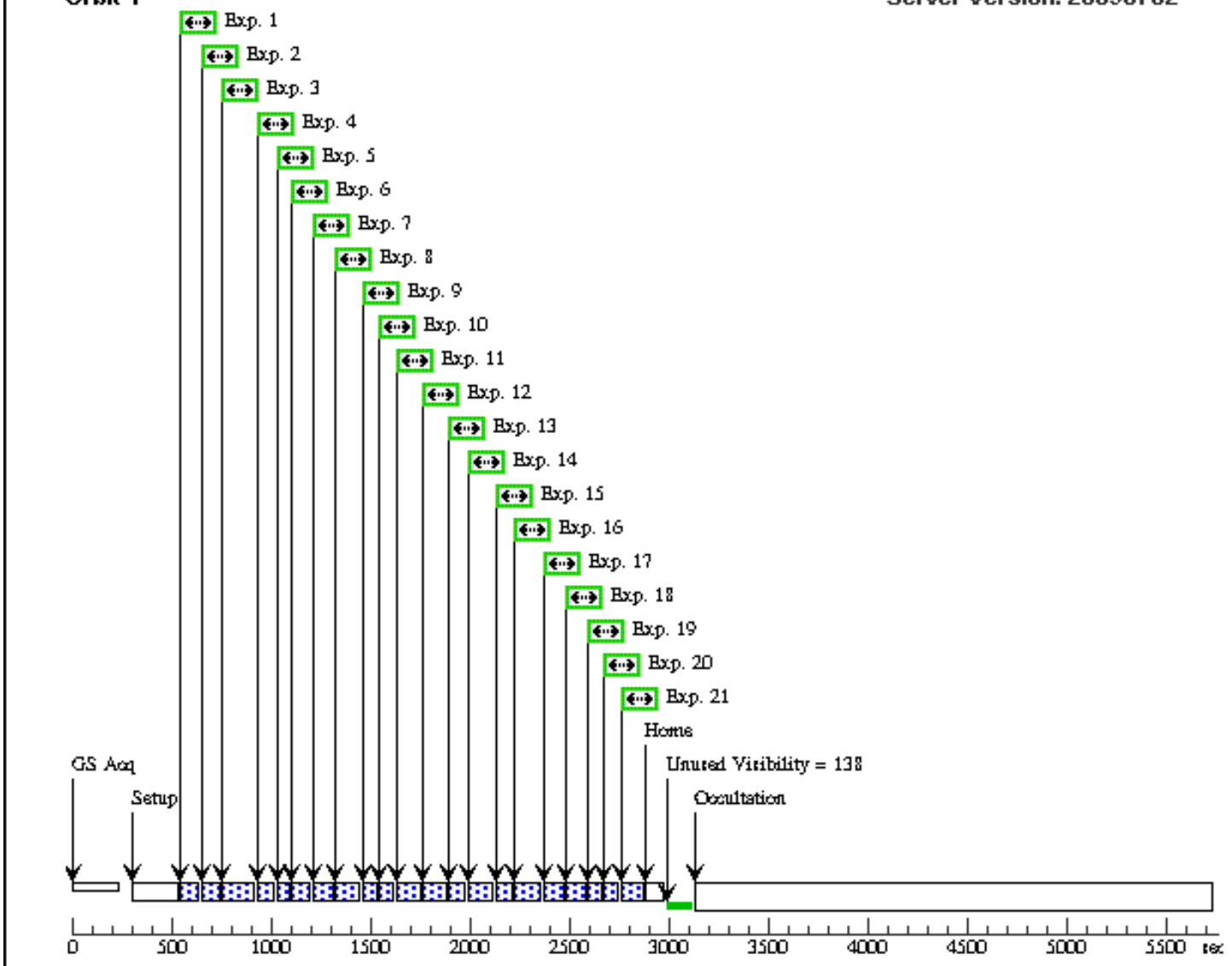
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) V603-AQL	FGS, POS, 1	F583W		POS TARG 120.0,-20.00; GS ACQ SCENARIO ONEB1B3	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
2		(6) V603-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
3		(8) V603-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
4		(9) V603-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
5		(1) V603-AQL	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
6		(14) V603-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
7		(13) V603-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
8		(12) V603-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
9		(1) V603-AQL	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
10		(9) V603-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
11		(8) V603-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
12		(6) V603-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
13		(1) V603-AQL	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
14		(8) V603-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
15		(9) V603-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
16		(12) V603-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
17		(13) V603-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***
18		(14) V603-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	 ***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
19		(1) V603-AQL	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
20		(9) V603-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
21		(6) V603-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 11785, Visit 23, completed Thu Oct 08 01:22:33 GMT 2009

Diagnostic Status: Warning

Scientific Instruments: FGS

Special Requirements: GYRO MODE 2G; SCHED 70%; ORIENT 64.0D TO 67.0 D

Diagnostics

(Visit 23) Warning (Form): Gyro Mode overrides default value of 3GOBAD.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	GK-PER Alt Name1: HD21629	RA: 03 31 12.0113 (52.8000471d) Dec: +43 54 15.38 (43.90427d) Equinox: J2000		V=12.88+/-0.1 B = 10.2	Reference Frame: ICRS
(15)	GKPER-REF1 Alt Name1: NCIU008224	RA: 03 31 14.1800 (52.8090833d) Dec: +43 54 24.60 (43.90683d) Equinox: J2000		V=15.2+/-0.1 Fpg=13.9, Jpg=16.3, Npg=13.37, B=16.55	Reference Frame: ICRS
(16)	GKPER-REF2 Alt Name1: NCIU001726	RA: 03 31 24.0800 (52.8503333d) Dec: +43 54 43.40 (43.91206d) Equinox: J2000		V=14.8+/-0.1 Fpg=13.9, Jpg=15.24, Npg=13.5, B=14.9	Reference Frame: ICRS
(17)	GKPER-REF3 Alt Name1: NCIU001716	RA: 03 31 25.3000 (52.8554167d) Dec: +43 55 26.11 (43.92392d) Equinox: J2000		V=13.2+/-0.1 Fpg=12.6, Jpg=14.03, Npg=12.17, B=14.15	Reference Frame: ICRS
(19)	GKPER-REF5 Alt Name1: NCIU008780	RA: 03 31 22.2100 (52.8425417d) Dec: +43 56 46.13 (43.94615d) Equinox: J2000		V=15.79+/-0.1 Fpg=14.77, Jpg=16.71, Npg=14.14, B=16.85	Reference Frame: ICRS
(20)	GKPER-REF6 Alt Name1: NCIU001693	RA: 03 31 33.1600 (52.8881667d) Dec: +43 56 24.14 (43.94004d) Equinox: J2000		V=13.99+/-0.1 Fpg=13.31, Jpg=14.88, Npg=12.92, B=14.75	Reference Frame: ICRS

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(21)	GKPER-REF7 Alt Name1: NCIU001704	RA: 03 31 32.4800 (52.8853333d) Dec: +43 55 52.13 (43.93115d) Equinox: J2000		V=13.18+/-0.1 Fpg=12.57, Jpg=13.92, Npg=12.14, B=14.06	Reference Frame: ICRS
(22)	GKPER-REF8 Alt Name1: NCIU007655	RA: 03 31 3.9900 (52.7666250d) Dec: +43 53 19.70 (43.88881d) Equinox: J2000		V=15.74+/-0.1 Fpg=14.87, Jpg=16.89, Npg=14.39, B=17.35	Reference Frame: ICRS
(23)	GKPER-REF9 Alt Name1: NCIU001703	RA: 03 30 59.4600 (52.7477500d) Dec: +43 55 49.00 (43.93028d) Equinox: J2000		V=14.02+/-0.2 Fpg=13.01, Jpg=15.32, Npg=12.27, B=15.32	Reference Frame: ICRS

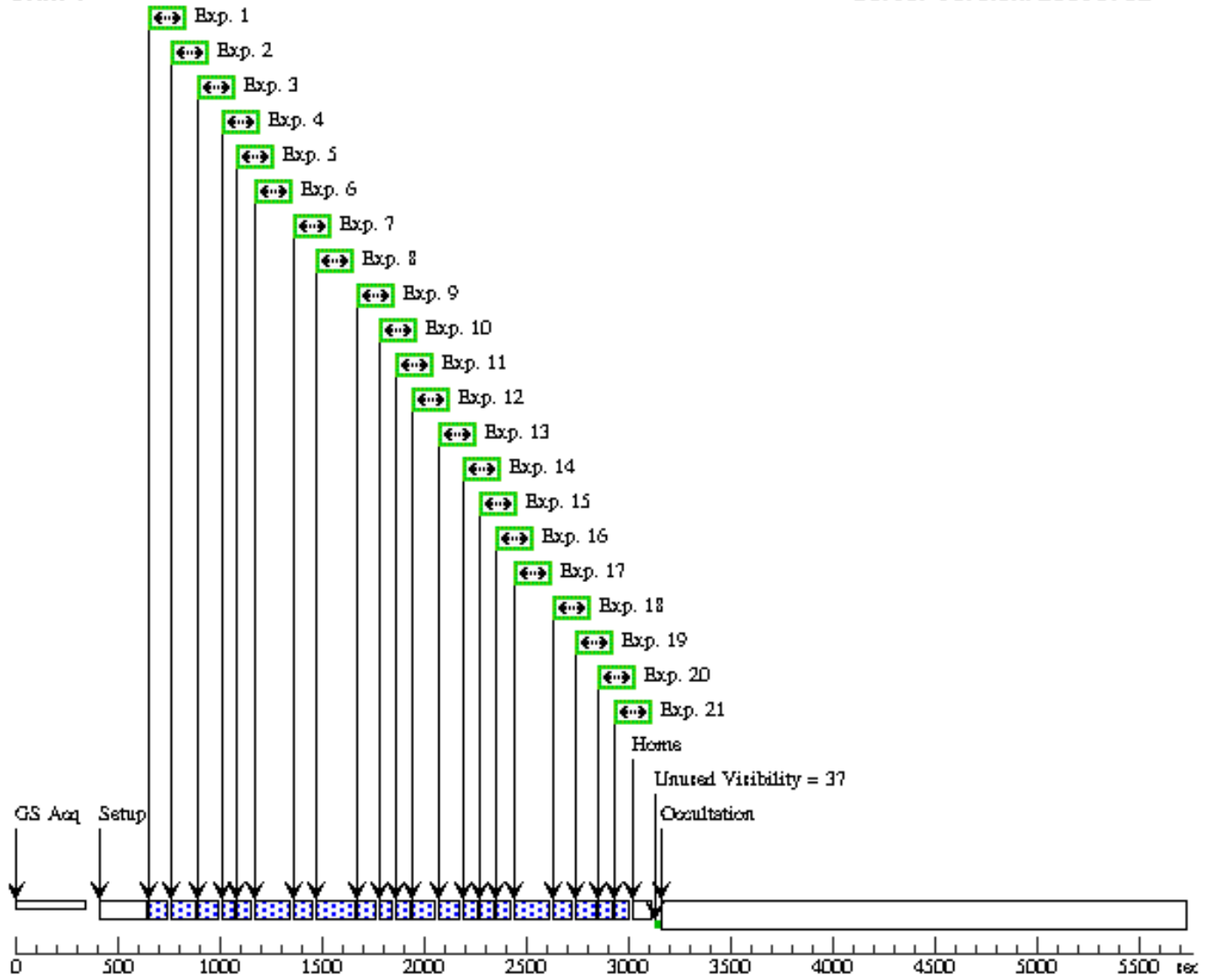
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(2) GK-PER	FGS, POS, 1	F583W		POS TARG 0.0,-60.0; GS ACQ SCENARIO BASE1T3	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
2		(15) GKPER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
3		(20) GKPER-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
4		(21) GKPER-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
5		(2) GK-PER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
6		(22) GKPER-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
7		(23) GKPER-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
8		(19) GKPER-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
9		(20) GKPER-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
10		(21) GKPER-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
11		(2) GK-PER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
12		(15) GKPER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
13		(16) GKPER-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
14		(17) GKPER-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
15		(21) GKPER-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
16		(2) GK-PER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
17		(22) GKPER-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
18		(23) GKPER-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
19		(21) GKPER-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
20		(20) GKPER-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
21		(2) GK-PER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 11785, Visit 24, completed Thu Oct 08 01:22:35 GMT 2009

Diagnostic Status: Warning

Scientific Instruments: FGS

Special Requirements: GYRO MODE 2G; SCHED 70%; ORIENT 64.0D TO 67.0 D

Diagnostics

(Visit 24) Warning (Form): Gyro Mode overrides default value of 3GOBAD.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	GK-PER Alt Name1: HD21629	RA: 03 31 12.0113 (52.8000471d) Dec: +43 54 15.38 (43.90427d) Equinox: J2000		V=12.88+/-0.1 B = 10.2	Reference Frame: ICRS
(15)	GKPER-REF1 Alt Name1: NCIU008224	RA: 03 31 14.1800 (52.8090833d) Dec: +43 54 24.60 (43.90683d) Equinox: J2000		V=15.2+/-0.1 Fpg=13.9, Jpg=16.3, Npg=13.37, B=16.55	Reference Frame: ICRS
(16)	GKPER-REF2 Alt Name1: NCIU001726	RA: 03 31 24.0800 (52.8503333d) Dec: +43 54 43.40 (43.91206d) Equinox: J2000		V=14.8+/-0.1 Fpg=13.9, Jpg=15.24, Npg=13.5, B=14.9	Reference Frame: ICRS
(17)	GKPER-REF3 Alt Name1: NCIU001716	RA: 03 31 25.3000 (52.8554167d) Dec: +43 55 26.11 (43.92392d) Equinox: J2000		V=13.2+/-0.1 Fpg=12.6, Jpg=14.03, Npg=12.17, B=14.15	Reference Frame: ICRS
(19)	GKPER-REF5 Alt Name1: NCIU008780	RA: 03 31 22.2100 (52.8425417d) Dec: +43 56 46.13 (43.94615d) Equinox: J2000		V=15.79+/-0.1 Fpg=14.77, Jpg=16.71, Npg=14.14, B=16.85	Reference Frame: ICRS
(20)	GKPER-REF6 Alt Name1: NCIU001693	RA: 03 31 33.1600 (52.8881667d) Dec: +43 56 24.14 (43.94004d) Equinox: J2000		V=13.99+/-0.1 Fpg=13.31, Jpg=14.88, Npg=12.92, B=14.75	Reference Frame: ICRS

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(21)	GKPER-REF7 Alt Name1: NCIU001704	RA: 03 31 32.4800 (52.8853333d) Dec: +43 55 52.13 (43.93115d) Equinox: J2000		V=13.18+/-0.1 Fpg=12.57, Jpg=13.92, Npg=12.14, B=14.06	Reference Frame: ICRS
(22)	GKPER-REF8 Alt Name1: NCIU007655	RA: 03 31 3.9900 (52.7666250d) Dec: +43 53 19.70 (43.88881d) Equinox: J2000		V=15.74+/-0.1 Fpg=14.87, Jpg=16.89, Npg=14.39, B=17.35	Reference Frame: ICRS
(23)	GKPER-REF9 Alt Name1: NCIU001703	RA: 03 30 59.4600 (52.7477500d) Dec: +43 55 49.00 (43.93028d) Equinox: J2000		V=14.02+/-0.2 Fpg=13.01, Jpg=15.32, Npg=12.27, B=15.32	Reference Frame: ICRS

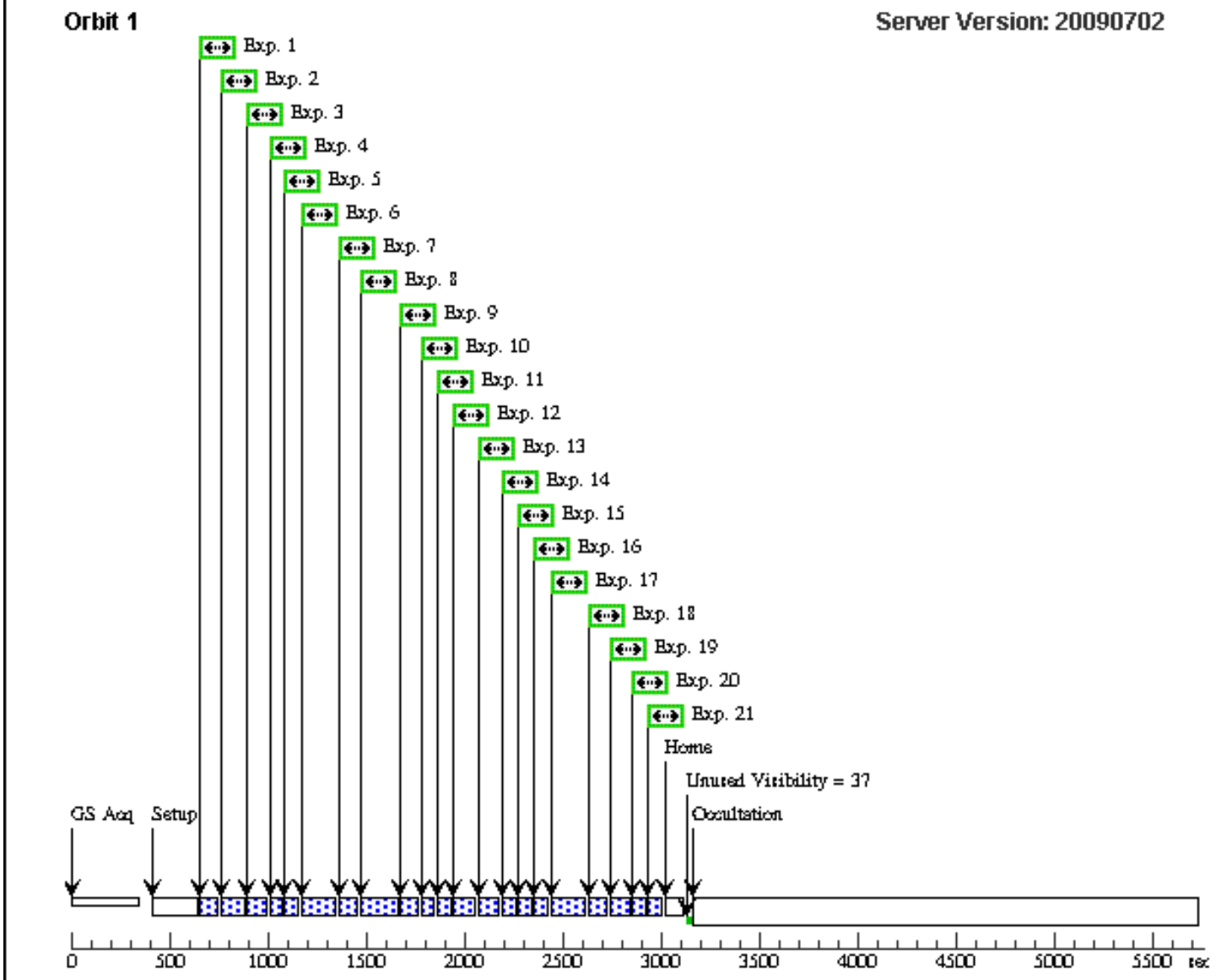
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(2) GK-PER	FGS, POS, 1	F583W		POS TARG 0.0,-60.0; GS ACQ SCENARIO BASE1T3	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
2		(15) GKPER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
3		(20) GKPER-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
4		(21) GKPER-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
5		(2) GK-PER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
6		(22) GKPER-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
7		(23) GKPER-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
8		(19) GKPER-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
9		(20) GKPER-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***
10		(21) GKPER-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs *[==>]*	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
11		(2) GK-PER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
12		(15) GKPER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
13		(16) GKPER-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
14		(17) GKPER-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
15		(21) GKPER-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
16		(2) GK-PER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
17		(22) GKPER-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
18		(23) GKPER-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
19		(21) GKPER-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
20		(20) GKPER-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***
21		(2) GK-PER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-21 Non-Int	8.0 Secs	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 11785, Visit 33, completed Thu Oct 08 01:22:35 GMT 2009
Diagnostic Status: Warning
Scientific Instruments: FGS
Special Requirements: GYRO MODE 2G; SCHED 70%; ORIENT 83.0D TO 83.0 D

Diagnostics

(Visit 33) Warning (Form): Gyro Mode overrides default value of 3GOBAD.
(Visit 33) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
(Visit 33) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
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(Visit 33) Warning (Orbit Planner): VISIBILITY OVERRUN
(Visit 33) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
(Visit 33) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	RR-PIC	RA: 06 35 36.0640 (98.9002667d) Dec: -62 38 24.30 (-62.64008d) Equinox: J2000		V=12.0+/-0.2 B = 12.5	Reference Frame: ICRS
(25)	RRPIC-REF1 Alt Name1: S4FZ000367	RA: 06 36 27.6000 (99.1150000d) Dec: -62 39 4.80 (-62.65133d) Equinox: J2000		V=12.3+/-0.1 Fpg=11.54, Jpg=12.5, Npg=11.6	Reference Frame: ICRS
(27)	RRPIC-REF3 Alt Name1: S4FZ000370	RA: 06 36 7.2600 (99.0302500d) Dec: -62 39 34.80 (-62.65967d) Equinox: J2000		V=14.76+/-0.1 Fpg=14.0, Jpg=15.6, Npg=13.7	Reference Frame: ICRS
(28)	RRPIC-REF4 Alt Name1: S4FZ000361	RA: 06 35 51.3100 (98.9637917d) Dec: -62 37 46.20 (-62.62950d) Equinox: J2000		V=13.9+/-0.1 Fpg=13.6, Jpg=14.3, Npg=13.3	Reference Frame: ICRS

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(29)	RRPIC-REF5 Alt Name1: S4FZ006820	RA: 06 35 28.8400 (98.8701667d) Dec: -62 38 34.30 (-62.64286d) Equinox: J2000		V=15.15+/-0.1 Fpg=14.6, Jpg=16.3, Npg=14.2	Reference Frame: ICRS
(30)	RRPIC-REF6 Alt Name1: S4FZ006768	RA: 06 35 40.3400 (98.9180833d) Dec: -62 38 41.40 (-62.64483d) Equinox: J2000		V=15.14+/-0.1 Fpg=14.4, Jpg=16.2, Npg=14.1	Reference Frame: ICRS
(31)	RRPIC-REF7 Alt Name1: S4FZ007048	RA: 06 35 10.8300 (98.7951250d) Dec: -62 37 49.10 (-62.63031d) Equinox: J2000		V=15.26+/-0.1 Fpg=14.5, Jpg=16.4, Npg=14.3	Reference Frame: ICRS
(32)	RRPIC-REF8 Alt Name1: S4FZ000357	RA: 06 34 57.1000 (98.7379167d) Dec: -62 37 11.70 (-62.61992d) Equinox: J2000		V=13.98+/-0.1 Fpg=13.2, Jpg=15.2, Npg=12.7	Reference Frame: ICRS
(33)	RRPIC-REF9 Alt Name1: S4FZ000362	RA: 06 34 50.1100 (98.7087917d) Dec: -62 37 40.38 (-62.62788d) Equinox: J2000		V=15.07+/-0.1 Fpg=14.6, Jpg=16.0, Npg=14.3	Reference Frame: ICRS
(34)	RRPIC-REF10 Alt Name1: S4FZ006954	RA: 06 35 1.1500 (98.7547917d) Dec: -62 38 14.50 (-62.63736d) Equinox: J2000		V=15.34+/-0.1 Fpg=14.6, Jpg=16.6, Npg=14.2	Reference Frame: ICRS
(35)	RRPIC-REF11 Alt Name1: S4FZ000375	RA: 06 35 7.9300 (98.7830417d) Dec: -62 39 53.16 (-62.66477d) Equinox: J2000		V=13.06+/-0.1 Fpg=12.3, Jpg=14.0, Npg=12.0	Reference Frame: ICRS
(36)	RRPIC-REF12 Alt Name1: S4FZ000364 Alt Name2: GSC889901409	RA: 06 36 25.9800 (99.1082500d) Dec: -62 38 12.50 (-62.63681d) Equinox: J2000		V=10.59+/-0.1 V=10.45, B=11.5	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(3) RR-PIC	FGS, POS, 1	F583W		POS TARG -105.0,-27.0; GS ACQ SCENARIO BASE1T3	Sequence 1-24 Non-Int	6.0 Secs *[==>]*	*[1]*
2		(29) RRPIC-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs *[==>]*	*[1]*

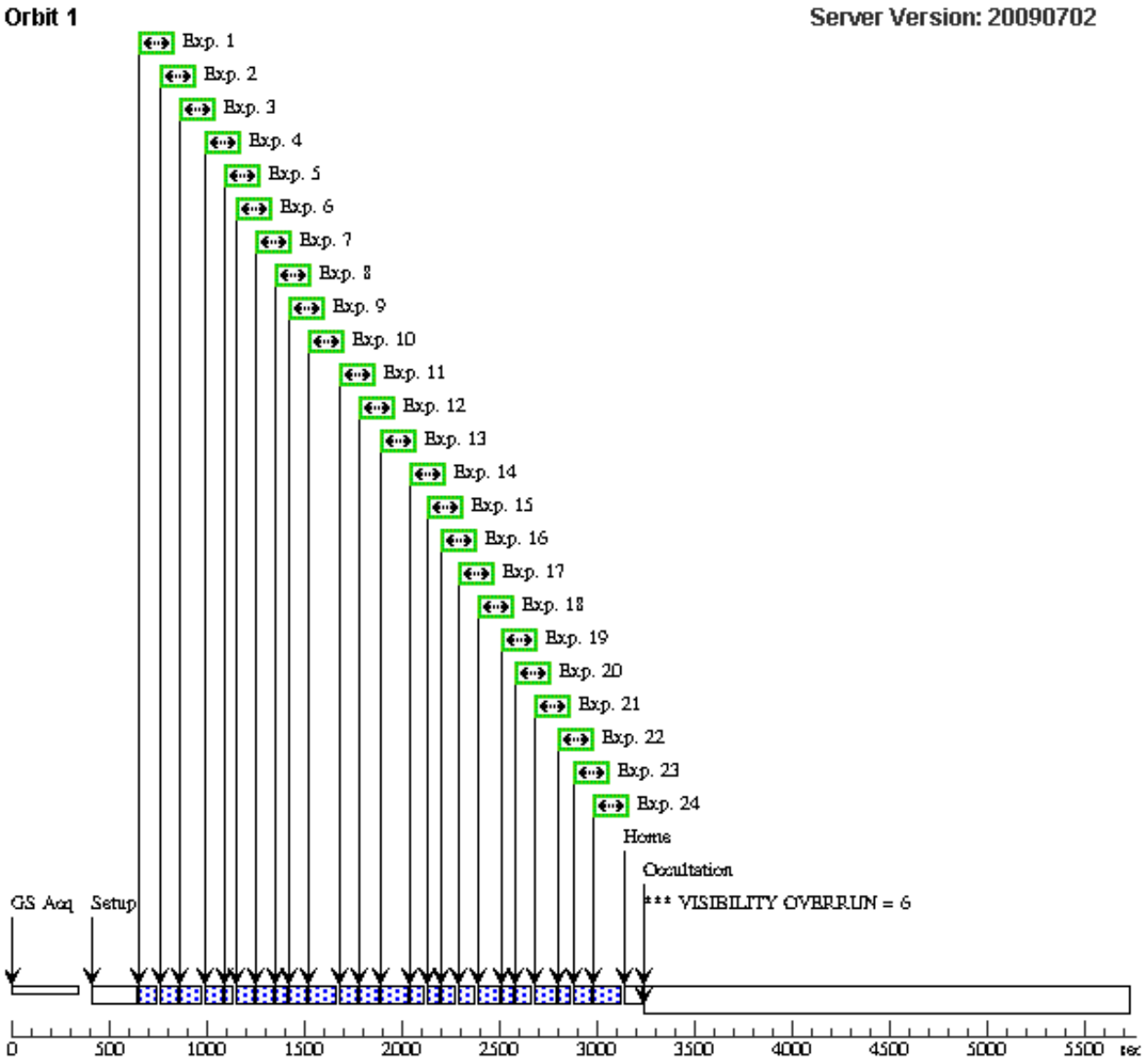
Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
3		(30) RRPIC-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs	
								[==>]	***[1]***
4		(36) RRPIC-REF12	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
5		(25) RRPIC-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
6		(27) RRPIC-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
7		(28) RRPIC-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
8		(3) RR-PIC	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
9		(29) RRPIC-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs	
								[==>]	***[1]***
10		(31) RRPIC-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs	
								[==>]	***[1]***
11		(32) RRPIC-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
12		(33) RRPIC-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs	
								[==>]	***[1]***
13		(34) RRPIC-REF10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs	
								[==>]	***[1]***
14		(35) RRPIC-REF11	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
15		(3) RR-PIC	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
16		(36) RRPIC-REF12	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
17		(28) RRPIC-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
18		(29) RRPIC-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs	
								[==>]	***[1]***
19		(3) RR-PIC	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
20		(30) RRPIC-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
21		(32) RRPIC-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
22		(35) RRPIC-REF11	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
23		(36) RRPIC-REF12	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
24		(33) RRPIC-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.00 Secs	
								[==>]	***[1]***

Orbit Structure



Proposal 11785 - Visit 34 - Trigonometric Calibration of the Distance Scale for Classical Novae

Visit

Proposal 11785, Visit 34, completed Thu Oct 08 01:22:37 GMT 2009
Diagnostic Status: Warning
Scientific Instruments: FGS
Special Requirements: GYRO MODE 2G; SCHED 70%; ORIENT 83.0D TO 83.0 D

Diagnostics

(Visit 34) Warning (Form): Gyro Mode overrides default value of 3GOBAD.
(Visit 34) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
(Visit 34) Warning (Orbit Planner): VISIBILITY OVERRUN
(Visit 34) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
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(Visit 34) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	RR-PIC	RA: 06 35 36.0640 (98.9002667d) Dec: -62 38 24.30 (-62.64008d) Equinox: J2000		V=12.0+/-0.2 B = 12.5	Reference Frame: ICRS
(25)	RRPIC-REF1 Alt Name1: S4FZ000367	RA: 06 36 27.6000 (99.1150000d) Dec: -62 39 4.80 (-62.65133d) Equinox: J2000		V=12.3+/-0.1 Fpg=11.54, Jpg=12.5, Npg=11.6	Reference Frame: ICRS
(27)	RRPIC-REF3 Alt Name1: S4FZ000370	RA: 06 36 7.2600 (99.0302500d) Dec: -62 39 34.80 (-62.65967d) Equinox: J2000		V=14.76+/-0.1 Fpg=14.0, Jpg=15.6, Npg=13.7	Reference Frame: ICRS
(28)	RRPIC-REF4 Alt Name1: S4FZ000361	RA: 06 35 51.3100 (98.9637917d) Dec: -62 37 46.20 (-62.62950d) Equinox: J2000		V=13.9+/-0.1 Fpg=13.6, Jpg=14.3, Npg=13.3	Reference Frame: ICRS

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(29)	RRPIC-REF5 Alt Name1: S4FZ006820	RA: 06 35 28.8400 (98.8701667d) Dec: -62 38 34.30 (-62.64286d) Equinox: J2000		V=15.15+/-0.1 Fpg=14.6, Jpg=16.3, Npg=14.2	Reference Frame: ICRS
(30)	RRPIC-REF6 Alt Name1: S4FZ006768	RA: 06 35 40.3400 (98.9180833d) Dec: -62 38 41.40 (-62.64483d) Equinox: J2000		V=15.14+/-0.1 Fpg=14.4, Jpg=16.2, Npg=14.1	Reference Frame: ICRS
(31)	RRPIC-REF7 Alt Name1: S4FZ007048	RA: 06 35 10.8300 (98.7951250d) Dec: -62 37 49.10 (-62.63031d) Equinox: J2000		V=15.26+/-0.1 Fpg=14.5, Jpg=16.4, Npg=14.3	Reference Frame: ICRS
(32)	RRPIC-REF8 Alt Name1: S4FZ000357	RA: 06 34 57.1000 (98.7379167d) Dec: -62 37 11.70 (-62.61992d) Equinox: J2000		V=13.98+/-0.1 Fpg=13.2, Jpg=15.2, Npg=12.7	Reference Frame: ICRS
(33)	RRPIC-REF9 Alt Name1: S4FZ000362	RA: 06 34 50.1100 (98.7087917d) Dec: -62 37 40.38 (-62.62788d) Equinox: J2000		V=15.07+/-0.1 Fpg=14.6, Jpg=16.0, Npg=14.3	Reference Frame: ICRS
(34)	RRPIC-REF10 Alt Name1: S4FZ006954	RA: 06 35 1.1500 (98.7547917d) Dec: -62 38 14.50 (-62.63736d) Equinox: J2000		V=15.34+/-0.1 Fpg=14.6, Jpg=16.6, Npg=14.2	Reference Frame: ICRS
(35)	RRPIC-REF11 Alt Name1: S4FZ000375	RA: 06 35 7.9300 (98.7830417d) Dec: -62 39 53.16 (-62.66477d) Equinox: J2000		V=13.06+/-0.1 Fpg=12.3, Jpg=14.0, Npg=12.0	Reference Frame: ICRS
(36)	RRPIC-REF12 Alt Name1: S4FZ000364 Alt Name2: GSC889901409	RA: 06 36 25.9800 (99.1082500d) Dec: -62 38 12.50 (-62.63681d) Equinox: J2000		V=10.59+/-0.1 V=10.45, B=11.5	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(3) RR-PIC	FGS, POS, 1	F583W		POS TARG -105.0,-27.0; GS ACQ SCENARIO BASE1T3	Sequence 1-24 Non-Int	6.0 Secs *[==>]*	*[1]*
2		(29) RRPIC-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs *[==>]*	*[1]*

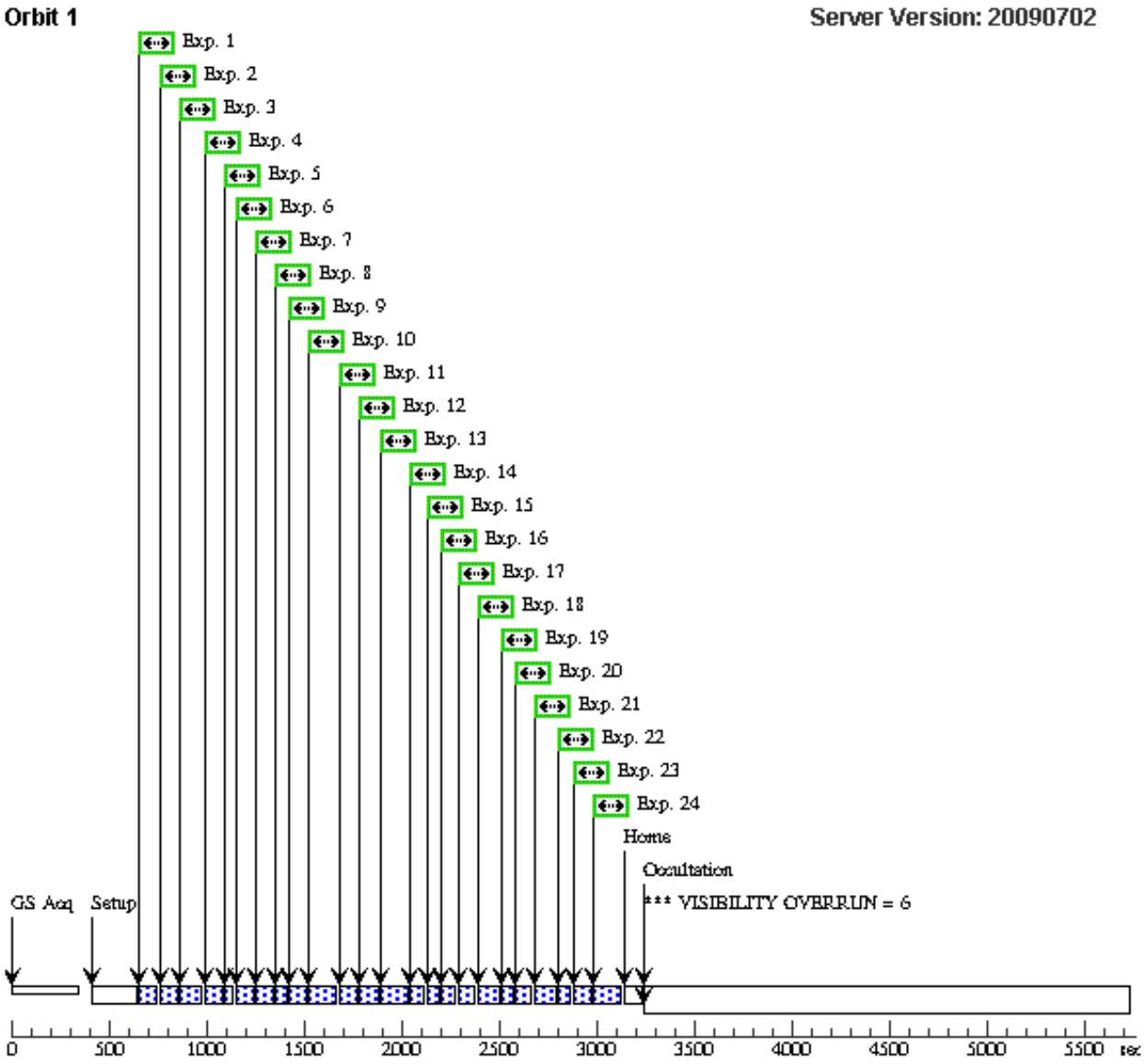
Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
3		(30) RRPIC-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs	
								[==>]	***[1]***
4		(36) RRPIC-REF12	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
5		(25) RRPIC-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
6		(27) RRPIC-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
7		(28) RRPIC-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
8		(3) RR-PIC	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
9		(29) RRPIC-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs	
								[==>]	***[1]***
10		(31) RRPIC-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs	
								[==>]	***[1]***
11		(32) RRPIC-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
12		(33) RRPIC-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs	
								[==>]	***[1]***
13		(34) RRPIC-REF10	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs	
								[==>]	***[1]***
14		(35) RRPIC-REF11	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
15		(3) RR-PIC	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
16		(36) RRPIC-REF12	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
17		(28) RRPIC-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
18		(29) RRPIC-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	8.0 Secs	
								[==>]	***[1]***
19		(3) RR-PIC	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
20		(30) RRPIC-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
21		(32) RRPIC-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
22		(35) RRPIC-REF11	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
23		(36) RRPIC-REF12	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***
24		(33) RRPIC-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-24 Non-Int	6.0 Secs	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 11785, Visit 43, completed Thu Oct 08 01:22:38 GMT 2009
Diagnostic Status: Warning
Scientific Instruments: FGS
Special Requirements: GYRO MODE 2G; SCHED 70%; ORIENT 340.0D TO 340.0 D; BETWEEN 04-JAN-2009:00:00:00 AND 20-JAN-2009:00:00:00

Diagnostics

(Visit 43) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
(Visit 43) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
(Visit 43) Warning (Form): Gyro Mode overrides default value of 3GOBAD.
(Visit 43) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
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(Visit 43) Warning (Orbit Planner): VISIBILITY OVERRUN
(Visit 43) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
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(Visit 43) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	DQ-HER	RA: 18 07 30.3025 (271.8762604d) Dec: +45 51 32.17 (45.85894d) Equinox: J2000		V=14.78+/-0.1 B = 17.7	Reference Frame: ICRS
(37)	DQHER-REF1 Alt Name1: GSC352401367	RA: 18 07 38.4200 (271.9100833d) Dec: +45 47 35.40 (45.79317d) Equinox: J2000		V=10.57+/-0.1	Reference Frame: ICRS

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(38)	DQHER-REF2 Alt Name1: N2DC000443	RA: 18 07 33.1800 (271.8882500d) Dec: +45 47 30.60 (45.79183d) Equinox: J2000		V=12.05+/-0.1 Fpg=12.6, Jpg=13.6, Npg=12.1, B=13.7	Reference Frame: ICRS
Comments: mu_alpha = -4.5 mu_delta = 9.2					
(39)	DQHER-REF3 Alt Name1: GSC352401344	RA: 18 07 26.7000 (271.8612500d) Dec: +45 47 57.50 (45.79931d) Equinox: J2000		V=11.58+/-0.1	Reference Frame: ICRS
(40)	DQHER-REF4 Alt Name1: N2DC000428	RA: 18 07 23.9000 (271.8495833d) Dec: +45 49 47.60 (45.82989d) Equinox: J2000		V=14.23+/-0.1 Fpg=14.0, Jpg=14.9, Npg=13.5, B=15.0	Reference Frame: ICRS
Comments: mu_alpha = -10 mu_delta = -16					
(41)	DQHER-REF5 Alt Name1: N2DC045034	RA: 18 07 29.9700 (271.8748750d) Dec: +45 49 49.70 (45.83047d) Equinox: J2000		V=15.11+/-0.1 Fpg=14.0. Jpg=14.9, Npg=13.5, B=15.0	Reference Frame: ICRS
Comments: mu_alpha = 4.2 mu_delta = -15.2					
(42)	DQHER-REF6 Alt Name1: N2DC000419	RA: 18 07 20.4400 (271.8351667d) Dec: +45 51 14.80 (45.85411d) Equinox: J2000		V=14.30+/-0.1 Fpg=13.7, Jpg=15.6, Npg=13.1, B=15.5	Reference Frame: ICRS
Comments: mu_alpha = -11.8 mu_delta = -28.6					
(43)	DQHER-REF7 Alt Name1: N2DC000416	RA: 18 07 17.7500 (271.8239583d) Dec: +45 52 53.70 (45.88158d) Equinox: J2000		V=14.65+/-0.1 Fpg=14.4, Jpg=15.3, Npg=13.9, B=15.4	Reference Frame: ICRS
Comments: mu_alpha = 0 mu_delta = 1.8					

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(44)	DQHER-REF8 Alt Name1: N0ZK000332	RA: 18 07 25.4500 (271.8560417d) Dec: +45 54 6.50 (45.90181d) Equinox: J2000		V=14.35+/-0.1 Fpg=14.1, Jpg=15.0, Npg=12.1, B=13.4	Reference Frame: ICRS
Comments: mu_alpha = -3.8 mu_delta = -21.0					
(45)	DQHER-REF9 Alt Name1: N02K000310	RA: 18 07 13.6000 (271.8066667d) Dec: +45 55 26.60 (45.92406d) Equinox: J2000		V=12.73+/-0.1 Fpg=12.4, Jpg=13.5, Npg=12.1, B=13.4	Reference Frame: ICRS
Comments: mu_alpha = -9.1 mu_delta = 1.1					

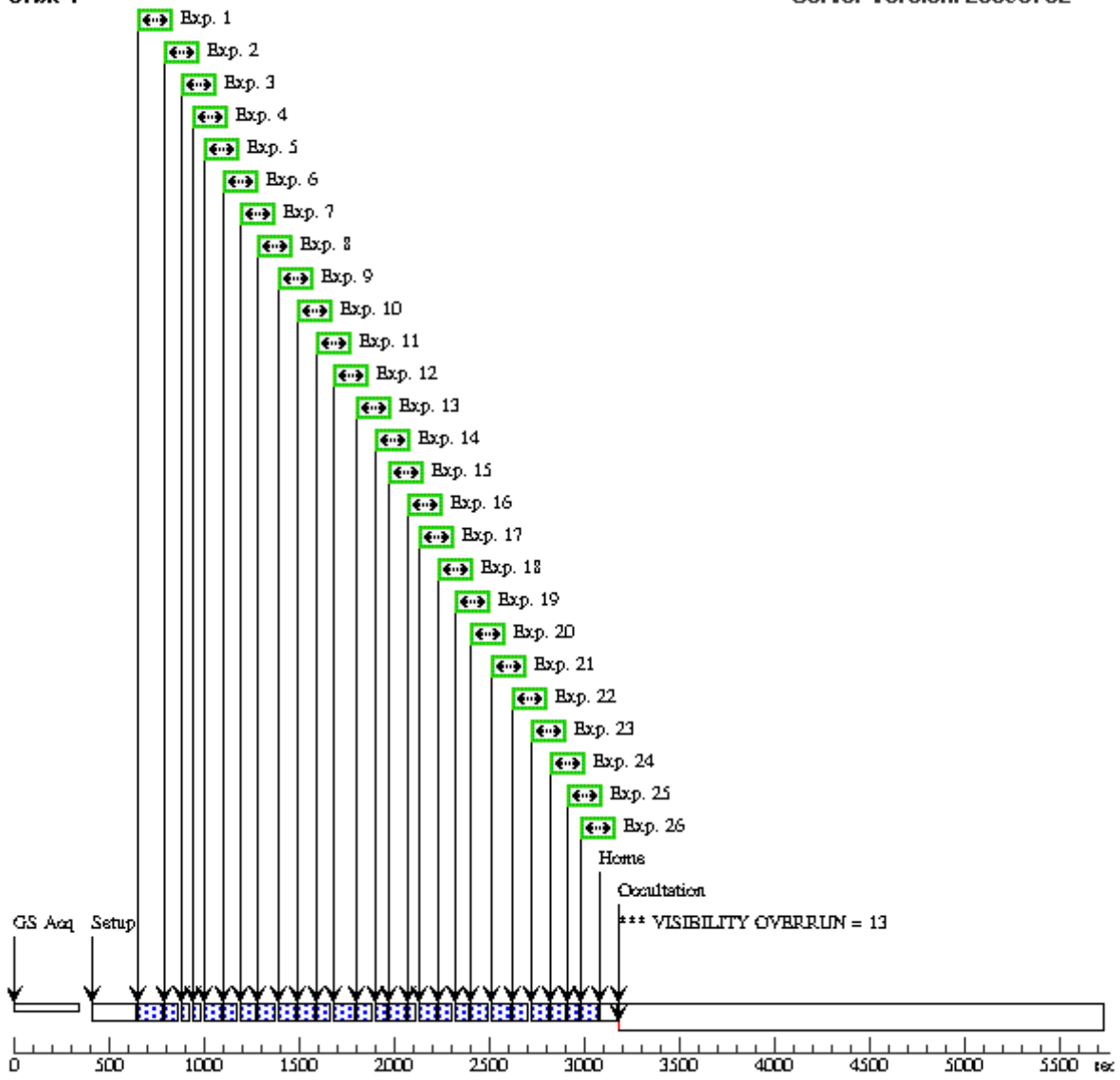
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(5) DQ-HER	FGS, POS, 1	F583W		POS TARG -5.8,-62.0; GS ACQ SCENARIO BASE1T3	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
2		(37) DQHER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
3		(38) DQHER-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
4		(39) DQHER-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
5		(5) DQ-HER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
6		(37) DQHER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
7		(40) DQHER-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
8		(41) DQHER-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
9		(42) DQHER-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
10		(5) DQ-HER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
11		(37) DQHER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
12		(43) DQHER-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
13		(44) DQHER-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
14		(45) DQHER-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
15		(37) DQHER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
16		(38) DQHER-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
17		(5) DQ-HER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
18		(39) DQHER-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
19		(40) DQHER-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
20		(41) DQHER-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
21		(5) DQ-HER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
22		(42) DQHER-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
23		(43) DQHER-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
24		(44) DQHER-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
25		(45) DQHER-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
26		(37) DQHER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 11785, Visit 44, completed Thu Oct 08 01:22:39 GMT 2009

Diagnostic Status: Warning

Scientific Instruments: FGS

Special Requirements: GYRO MODE 2G; SCHED 70%; ORIENT 340.0D TO 340.0 D; BETWEEN 04-JAN-2009:00:00:00 AND 20-JAN-2009:00:00:00

Diagnostics

(Visit 44) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
(Visit 44) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
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(Visit 44) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
(Visit 44) Warning (Form): Gyro Mode overrides default value of 3GOBAD.
(Visit 44) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
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(Visit 44) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
(Visit 44) Warning (Orbit Planner): VISIBILITY OVERRUN
(Visit 44) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA
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(Visit 44) Warning (Orbit Planner): FGS EXPOSURE TOO SHORT TO GUARANTEE SCIENCE DATA

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	DQ-HER	RA: 18 07 30.3025 (271.8762604d) Dec: +45 51 32.17 (45.85894d) Equinox: J2000		V=14.78+/-0.1 B = 17.7	Reference Frame: ICRS
(37)	DQHER-REF1 Alt Name1: GSC352401367	RA: 18 07 38.4200 (271.9100833d) Dec: +45 47 35.40 (45.79317d) Equinox: J2000		V=10.57+/-0.1	Reference Frame: ICRS

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(38)	DQHER-REF2 Alt Name1: N2DC000443	RA: 18 07 33.1800 (271.8882500d) Dec: +45 47 30.60 (45.79183d) Equinox: J2000		V=12.05+/-0.1 Fpg=12.6, Jpg=13.6, Npg=12.1, B=13.7	Reference Frame: ICRS
Comments: mu_alpha = -4.5 mu_delta = 9.2					
(39)	DQHER-REF3 Alt Name1: GSC352401344	RA: 18 07 26.7000 (271.8612500d) Dec: +45 47 57.50 (45.79931d) Equinox: J2000		V=11.58+/-0.1	Reference Frame: ICRS
(40)	DQHER-REF4 Alt Name1: N2DC000428	RA: 18 07 23.9000 (271.8495833d) Dec: +45 49 47.60 (45.82989d) Equinox: J2000		V=14.23+/-0.1 Fpg=14.0, Jpg=14.9, Npg=13.5, B=15.0	Reference Frame: ICRS
Comments: mu_alpha = -10 mu_delta = -16					
(41)	DQHER-REF5 Alt Name1: N2DC045034	RA: 18 07 29.9700 (271.8748750d) Dec: +45 49 49.70 (45.83047d) Equinox: J2000		V=15.11+/-0.1 Fpg=14.0. Jpg=14.9, Npg=13.5, B=15.0	Reference Frame: ICRS
Comments: mu_alpha = 4.2 mu_delta = -15.2					
(42)	DQHER-REF6 Alt Name1: N2DC000419	RA: 18 07 20.4400 (271.8351667d) Dec: +45 51 14.80 (45.85411d) Equinox: J2000		V=14.30+/-0.1 Fpg=13.7, Jpg=15.6, Npg=13.1, B=15.5	Reference Frame: ICRS
Comments: mu_alpha = -11.8 mu_delta = -28.6					
(43)	DQHER-REF7 Alt Name1: N2DC000416	RA: 18 07 17.7500 (271.8239583d) Dec: +45 52 53.70 (45.88158d) Equinox: J2000		V=14.65+/-0.1 Fpg=14.4, Jpg=15.3, Npg=13.9, B=15.4	Reference Frame: ICRS
Comments: mu_alpha = 0 mu_delta = 1.8					

Fixed Targets (continued)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(44)	DQHER-REF8 Alt Name1: N0ZK000332	RA: 18 07 25.4500 (271.8560417d) Dec: +45 54 6.50 (45.90181d) Equinox: J2000		V=14.35+/-0.1 Fpg=14.1, Jpg=15.0, Npg=12.1, B=13.4	Reference Frame: ICRS
Comments: mu_alpha = -3.8 mu_delta = -21.0					
(45)	DQHER-REF9 Alt Name1: N02K000310	RA: 18 07 13.6000 (271.8066667d) Dec: +45 55 26.60 (45.92406d) Equinox: J2000		V=12.73+/-0.1 Fpg=12.4, Jpg=13.5, Npg=12.1, B=13.4	Reference Frame: ICRS
Comments: mu_alpha = -9.1 mu_delta = 1.1					

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(5) DQ-HER	FGS, POS, 1	F583W		POS TARG -5.8,-62.0; GS ACQ SCENARIO BASE1T3	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
2		(37) DQHER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
3		(38) DQHER-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
4		(39) DQHER-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
5		(5) DQ-HER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
6		(37) DQHER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
7		(40) DQHER-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
8		(41) DQHER-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
9		(42) DQHER-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
10		(5) DQ-HER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***
11		(37) DQHER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs *[==>]*	 ***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
12		(43) DQHER-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
13		(44) DQHER-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
14		(45) DQHER-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
15		(37) DQHER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
16		(38) DQHER-REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
17		(5) DQ-HER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
18		(39) DQHER-REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
19		(40) DQHER-REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
20		(41) DQHER-REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
21		(5) DQ-HER	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
22		(42) DQHER-REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
23		(43) DQHER-REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
24		(44) DQHER-REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
25		(45) DQHER-REF9	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***
26		(37) DQHER-REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-26 Non-Int	4.0 Secs	
								[==>]	***[1]***

Orbit Structure