10165 - Determination of orbits and colors for two new binaries in the Koronis asteroid family

Cycle: 13, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	*Institution*	*E-Mail*
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VISITS

Visit	*Targets*	*Configurations*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) ASTEROID-17246	ACS/HRC	1	27-Apr-2005 14:08:39.0	yes
02	(1) ASTEROID-17246	ACS/HRC	1	27-Apr-2005 14:08:47.0	yes
03	(1) ASTEROID-17246	ACS/HRC	1	27-Apr-2005 14:08:56.0	yes
04	(1) ASTEROID-17246	ACS/HRC	1	27-Apr-2005 14:09:02.0	yes
05	(2) ASTEROID-22899	ACS/HRC	1	27-Apr-2005 14:09:07.0	yes
06	(2) ASTEROID-22899	ACS/HRC	1	27-Apr-2005 14:09:12.0	yes
07	(2) ASTEROID-22899	ACS/HRC	1	07-Dec-2004 15:10:46.0	yes
08	(2) ASTEROID-22899	ACS/HRC	1	07-Dec-2004 15:26:54.0	yes

8 Total Orbits Used

ABSTRACT

We propose to measure color and orbital properties of two asteroid binaries in the Koronis family discovered in our SNAP-9747 survey. The best previously studied asteroid binary system, Ida/Dactyl, is also in the Koronis family. Differential space weathering measured on the Ida and Dactyl surfaces has been a powerful constraint on models of satellite formation mechanisms and satellite survivability. HST offers the unique opportunity for similar measurements of these much smaller, main-belt binaries. The new satellites are believed to have formed through different collisional mechanisms than Ida/Dactyl.

Further, with a set of 4 relative position measurements for each of the two systems, added to the discovery snapshots, we will determine and compare the densities of the primaries with Ida (a large, 31.5 km, asteroid with density 2.6+-0.5 g/cm^3, measured by the Galileo flyby). In contrast, (17246) and (22899) are 4.5 km bodies that are likely to have been restructured since the family-forming event by subsequent collisions. As all are members of the same family, differences in density would constrain bulk composition and internal structure (e.g. shard vs. rubble-pile). Hence, these measurements are likely to further elucidate the mechanisms for formation of satellites.

OBSERVING DESCRIPTION

Each of 8 visits is an identical single orbit sequence of images in four filters with dithers. Dithers are larger than system size but small enough to execute quickly. A skewed box is used to reduce probability of multiple images of the system being influenced by a column defect.
The 3 images per orbit with F775W are spaced for overall light curve monitoring
during the orbit.
Summed S/N expected in satellite of order 55 in each filter in each visit. The
visits are spaced in time for optimal period determination, around the time of opposition.

ADDITIONAL COMMENTS

As described in Phase-I, we expect that visits 3, 4, 7 & 8 may need their timing requirements adjusted slightly based on data acquired in visits 1, 2, 5, & 6.

Visit

Proposal 10165, Visit 01 Wed Apr 27 18:09:17 GMT 2005

Diagnostic Status: Error

Scientific Instruments: ACS/HRC

Special Requirements: PCS MODE FINE; SCHED 100%; BETWEEN 10-MAY-2005:00:00:00 AND 30-MAY-2005:00:00:00

Comments: Earlier within the timing window is preferred.

Diagnostics

(Visit 01) Error: INVALID GS ACQ SCENARIO SPECIAL REQUIREMENT

(Visit 01) Warning: GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE

Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window
(1)	ASTEROID-17246	TYPE=ASTEROID,A=2.8417325,E=0.0216704,I=2.4533,O=34.59017,W=214.88074,M=287.10964,EQUINOX=J2000,EPOCH=14-JUL-2004:00:00:00			

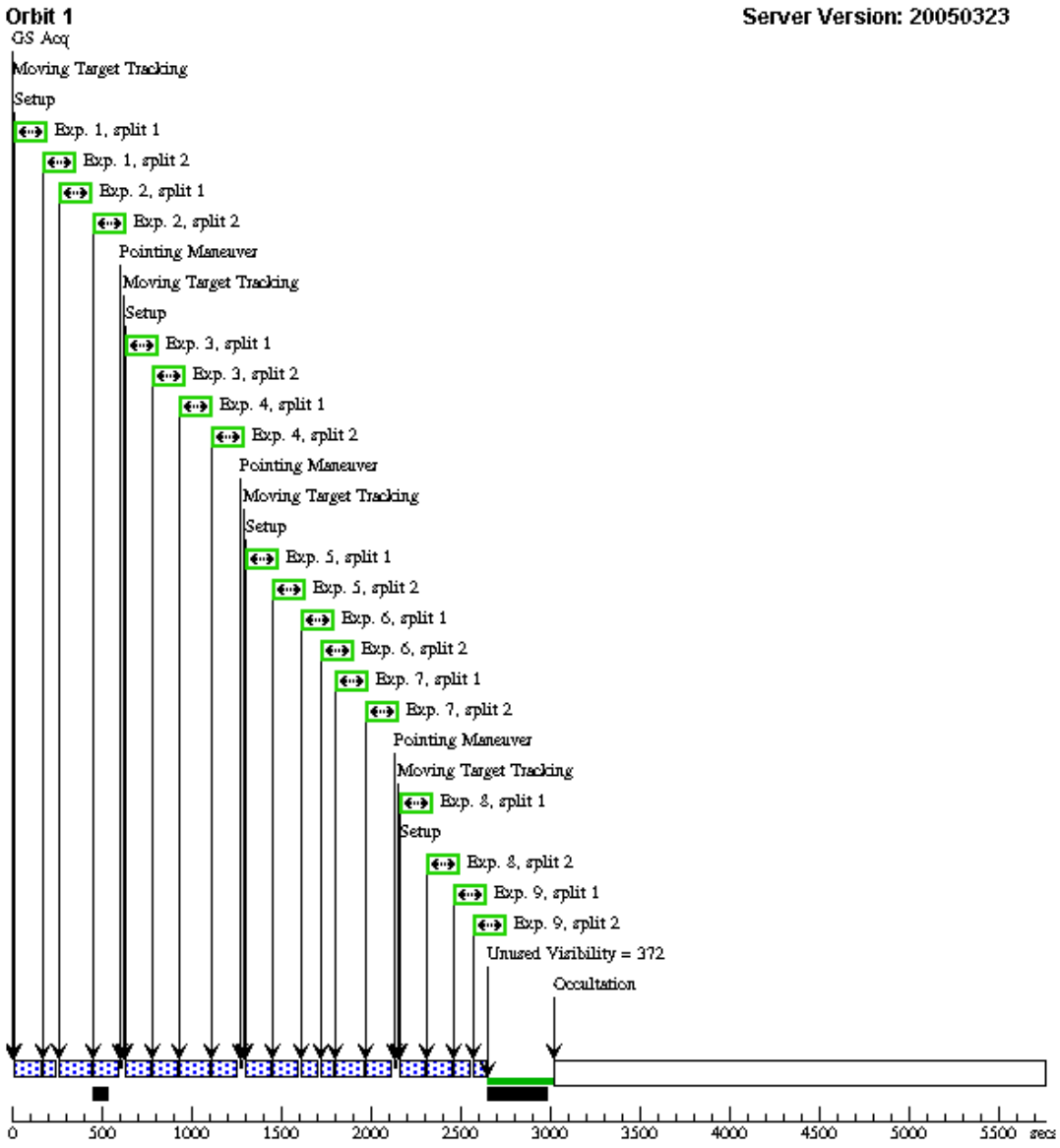
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	17246-SDSSi-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0; GS ACQ SCENARIO BASE13GO	Sequence 1-9 Non-Int	90.0 Secs *[==>33.0 Secs (Split 1)]* *[==>33.0 Secs (Split 2)]*	***[1]***
2	17246-JohnsonB-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0	Sequence 1-9 Non-Int	222.0 Secs *[==>87.0 Secs (Split 1)]* *[==>99.0 Secs (Split 2)]*	***[1]***
3	17246-JohnsonB-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283	Sequence 1-9 Non-Int	222.0 Secs *[==>99.0 Secs (Split 1)]* *[==>99.0 Secs (Split 2)]*	***[1]***
4	17246-SDSSz-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283	Sequence 1-9 Non-Int	229.0 Secs *[==>90.5 Secs (Split 1)]* *[==>102.5 Secs (Split 2)]*	***[1]***
5	17246-SDSSz-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	229.0 Secs *[==>102.5 Secs (Split 1)]* *[==>102.5 Secs (Split 2)]*	***[1]***
6	17246-SDSSi-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	90.0 Secs *[==>33.0 Secs (Split 1)]* *[==>33.0 Secs (Split 2)]*	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
7	17246-NarrowV-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	224.0 Secs *[==>100.0 Secs (Split 1)]* *[==>100.0 Secs (Split 2)]*	***[1]***
8	17246-NarrowV-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135	Sequence 1-9 Non-Int	224.0 Secs *[==>100.0 Secs (Split 1)]* *[==>100.0 Secs (Split 2)]*	***[1]***
9	17246-SDSSi-3	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135	Sequence 1-9 Non-Int	90.0 Secs *[==>33.0 Secs (Split 1)]* *[==>33.0 Secs (Split 2)]*	***[1]***

Orbit Structure



Visit

Proposal 10165, Visit 02 Wed Apr 27 18:09:18 GMT 2005

Diagnostic Status: Error

Scientific Instruments: ACS/HRC

Special Requirements: PCS MODE FINE; SCHED 100%; AFTER 01 BY 6 D TO 8 D

Diagnostics

(Visit 02) Error: INVALID GS ACQ SCENARIO SPECIAL REQUIREMENT

(Visit 02) Warning: GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE

Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window
(1)	ASTEROID-17246	TYPE=ASTEROID,A=2.8417325,E=0.0216704,I=2.4533,O=34.59017,W=214.88074,M=287.10964,EQUINOX=J2000,EPOCH=14-JUL-2004:00:00:00			

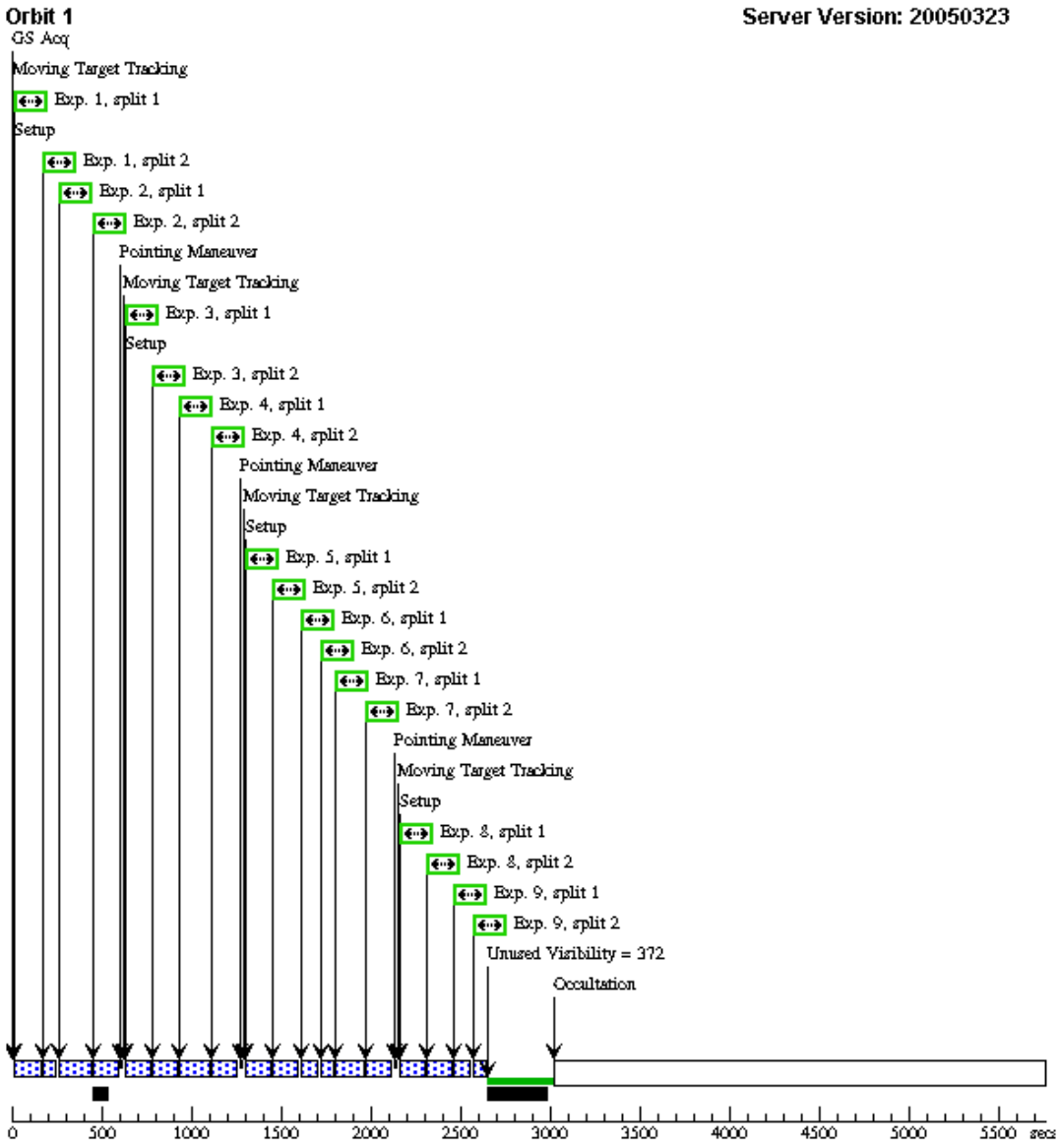
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	17246-SDSSi-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0; GS ACQ SCENARIO BASE13GO	Sequence 1-9 Non-Int	90.0 Secs *[==>33.0 Secs (Split 1)]* *[==>33.0 Secs (Split 2)]*	***[1]***
2	17246-JohnsonB-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0	Sequence 1-9 Non-Int	222.0 Secs *[==>87.0 Secs (Split 1)]* *[==>99.0 Secs (Split 2)]*	***[1]***
3	17246-JohnsonB-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283	Sequence 1-9 Non-Int	222.0 Secs *[==>99.0 Secs (Split 1)]* *[==>99.0 Secs (Split 2)]*	***[1]***
4	17246-SDSSz-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283	Sequence 1-9 Non-Int	229.0 Secs *[==>90.5 Secs (Split 1)]* *[==>102.5 Secs (Split 2)]*	***[1]***
5	17246-SDSSz-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	229.0 Secs *[==>102.5 Secs (Split 1)]* *[==>102.5 Secs (Split 2)]*	***[1]***
6	17246-SDSSi-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	90.0 Secs *[==>33.0 Secs (Split 1)]* *[==>33.0 Secs (Split 2)]*	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
7	17246-NarrowV-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	224.0 Secs *[==>100.0 Secs (Split 1)]* *[==>100.0 Secs (Split 2)]*	***[1]***
8	17246-NarrowV-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135	Sequence 1-9 Non-Int	224.0 Secs *[==>100.0 Secs (Split 1)]* *[==>100.0 Secs (Split 2)]*	***[1]***
9	17246-SDSSi-3	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135	Sequence 1-9 Non-Int	90.0 Secs *[==>33.0 Secs (Split 1)]* *[==>33.0 Secs (Split 2)]*	***[1]***

Orbit Structure



Visit

Proposal 10165, Visit 03 Wed Apr 27 18:09:19 GMT 2005

Diagnostic Status: Error

Scientific Instruments: ACS/HRC

Special Requirements: PCS MODE FINE; SCHED 100%; AFTER 01 BY 35 D TO 45 D

Diagnostics

(Visit 03) Error: INVALID GS ACQ SCENARIO SPECIAL REQUIREMENT

(Visit 03) Warning: GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE

Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window
(1)	ASTEROID-17246	TYPE=ASTEROID,A=2.8417325,E=0.0216704,I=2.4533,O=34.59017,W=214.88074,M=287.10964,EQUINOX=J2000,EPOCH=14-JUL-2004:00:00:00			

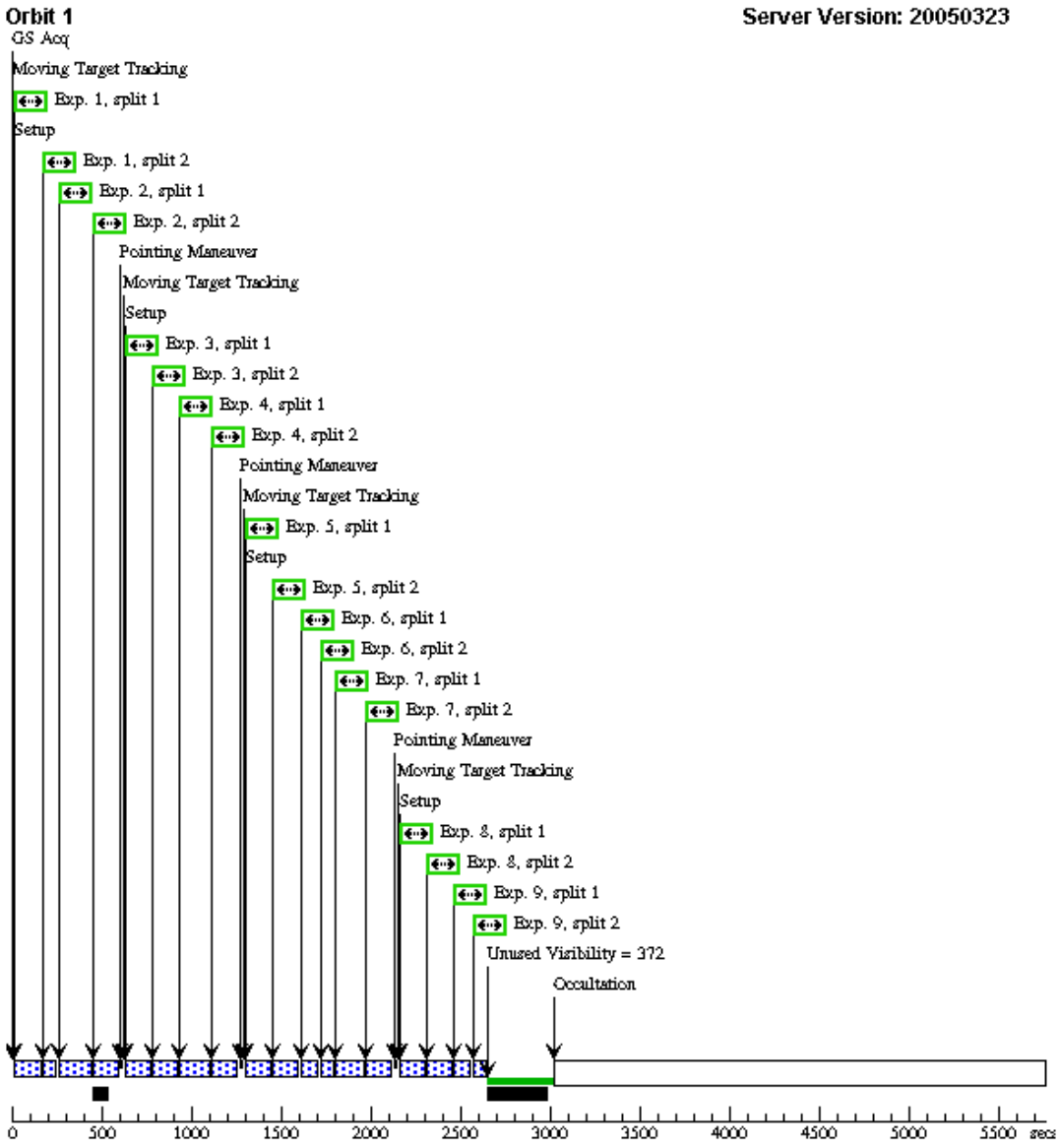
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	17246-SDSSi-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0; GS ACQ SCENARIO BASE13GO	Sequence 1-9 Non-Int	90.0 Secs *[==>33.0 Secs (Split 1)]* *[==>33.0 Secs (Split 2)]*	***[1]***
2	17246-JohnsonB-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0	Sequence 1-9 Non-Int	222.0 Secs *[==>87.0 Secs (Split 1)]* *[==>99.0 Secs (Split 2)]*	***[1]***
3	17246-JohnsonB-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283	Sequence 1-9 Non-Int	222.0 Secs *[==>99.0 Secs (Split 1)]* *[==>99.0 Secs (Split 2)]*	***[1]***
4	17246-SDSSz-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283	Sequence 1-9 Non-Int	229.0 Secs *[==>90.5 Secs (Split 1)]* *[==>102.5 Secs (Split 2)]*	***[1]***
5	17246-SDSSz-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	229.0 Secs *[==>102.5 Secs (Split 1)]* *[==>102.5 Secs (Split 2)]*	***[1]***
6	17246-SDSSi-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	90.0 Secs *[==>33.0 Secs (Split 1)]* *[==>33.0 Secs (Split 2)]*	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
7	17246-NarrowV-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	224.0 Secs *[==>100.0 Secs (Split 1)]* *[==>100.0 Secs (Split 2)]*	***[1]***
8	17246-NarrowV-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135	Sequence 1-9 Non-Int	224.0 Secs *[==>100.0 Secs (Split 1)]* *[==>100.0 Secs (Split 2)]*	***[1]***
9	17246-SDSSi-3	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135	Sequence 1-9 Non-Int	90.0 Secs *[==>33.0 Secs (Split 1)]* *[==>33.0 Secs (Split 2)]*	***[1]***

Orbit Structure



Visit

Proposal 10165, Visit 04 Wed Apr 27 18:09:20 GMT 2005

Diagnostic Status: Error

Scientific Instruments: ACS/HRC

Special Requirements: PCS MODE FINE; SCHED 100%; AFTER 03 BY 9 D TO 11 D

Diagnostics

(Visit 04) Error: INVALID GS ACQ SCENARIO SPECIAL REQUIREMENT

(Visit 04) Warning: GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE

Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window
(1)	ASTEROID-17246	TYPE=ASTEROID,A=2.8417325,E=0.0216704,I=2.4533,O=34.59017,W=214.88074,M=287.10964,EQUINOX=J2000,EPOCH=14-JUL-2004:00:00:00			

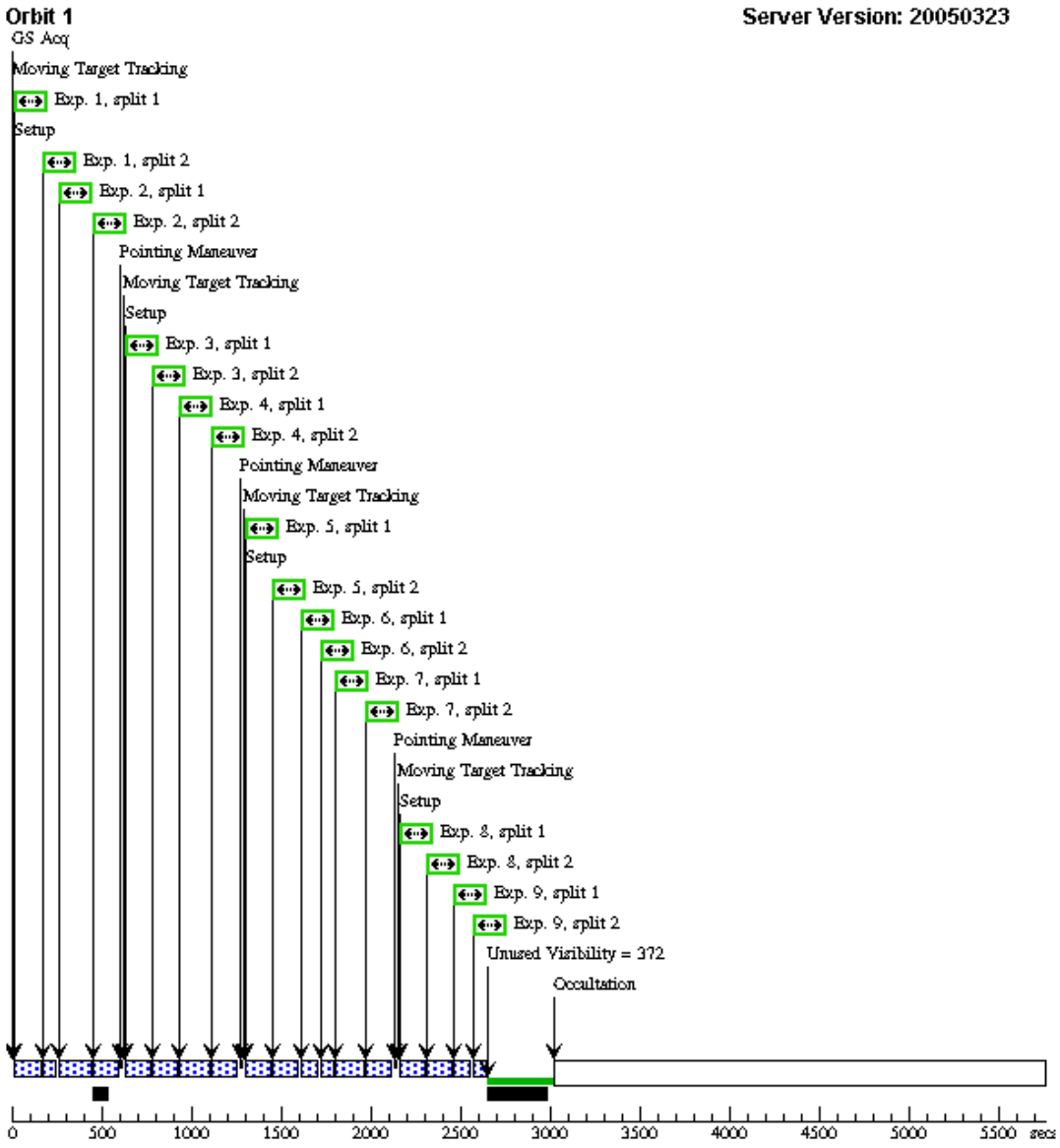
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	17246-SDSSi-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0; GS ACQ SCENARIO BASE13GO	Sequence 1-9 Non-Int	90.0 Secs *[==>33.0 Secs (Split 1)]* *[==>33.0 Secs (Split 2)]*	***[1]***
2	17246-JohnsonB-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0	Sequence 1-9 Non-Int	222.0 Secs *[==>87.0 Secs (Split 1)]* *[==>99.0 Secs (Split 2)]*	***[1]***
3	17246-JohnsonB-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283	Sequence 1-9 Non-Int	222.0 Secs *[==>99.0 Secs (Split 1)]* *[==>99.0 Secs (Split 2)]*	***[1]***
4	17246-SDSSz-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283	Sequence 1-9 Non-Int	229.0 Secs *[==>90.5 Secs (Split 1)]* *[==>102.5 Secs (Split 2)]*	***[1]***
5	17246-SDSSz-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	229.0 Secs *[==>102.5 Secs (Split 1)]* *[==>102.5 Secs (Split 2)]*	***[1]***
6	17246-SDSSi-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	90.0 Secs *[==>33.0 Secs (Split 1)]* *[==>33.0 Secs (Split 2)]*	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
7	17246-NarrowV-1	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	224.0 Secs *[==>100.0 Secs (Split 1)]* *[==>100.0 Secs (Split 2)]*	***[1]***
8	17246-NarrowV-2	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135	Sequence 1-9 Non-Int	224.0 Secs *[==>100.0 Secs (Split 1)]* *[==>100.0 Secs (Split 2)]*	***[1]***
9	17246-SDSSi-3	(1) ASTEROID-17246	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135	Sequence 1-9 Non-Int	90.0 Secs *[==>33.0 Secs (Split 1)]* *[==>33.0 Secs (Split 2)]*	***[1]***

Orbit Structure



Visit

Proposal 10165, Visit 05 Wed Apr 27 18:09:21 GMT 2005

Diagnostic Status: Warning

Scientific Instruments: ACS/HRC

Special Requirements: PCS MODE FINE; BETWEEN 31-OCT-2004:16:00:00 AND 06-NOV-2004:16:00:00

Diagnostics

(Visit 05) Warning: VISIBILITY OVERRUN

Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window
(2)	ASTEROID-22899	TYPE=ASTEROID,A=2.844071,E=0.085052,I=2.87792,O=136.15296,W=217.72689,M=38.104,EQUINOX=J2000,EPOCH=14-JUL-2004:00:00:00			

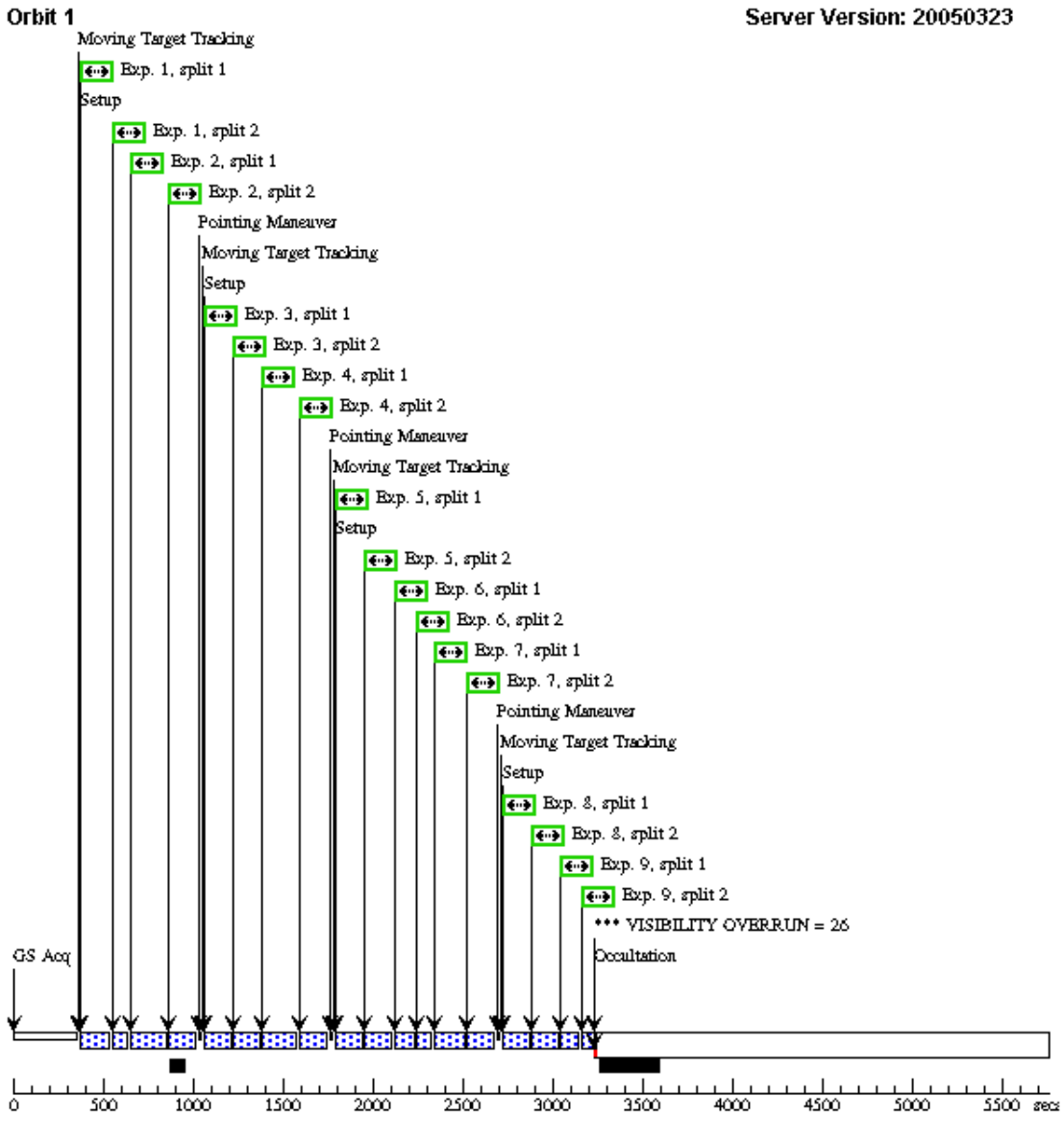
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	22899-SDSSi-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0		90.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	 ***[1]***
2	22899-JohnsonB-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0		222.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	 ***[1]***
3	22899-JohnsonB-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283		222.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	 ***[1]***
4	22899-SDSSz-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283		229.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	 ***[1]***
5	22899-SDSSz-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148		229.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	 ***[1]***
6	22899-SDSSi-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148		90.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	 ***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
7	22899-NarrowV-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148		224.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
8	22899-NarrowV-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135		224.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
9	22899-SDSSi-3	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135		90.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***

Orbit Structure



Visit

Proposal 10165, Visit 06 Wed Apr 27 18:09:21 GMT 2005

Diagnostic Status: Warning

Scientific Instruments: ACS/HRC

Special Requirements: PCS MODE FINE; BETWEEN 11-NOV-2004:21:00:00 AND 17-NOV-2004:21:00:00

Diagnostics

(Visit 06) Warning: VISIBILITY OVERRUN

Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window
(2)	ASTEROID-22899	TYPE=ASTEROID,A=2.844071,E=0.085052,I=2.87792,O=136.15296,W=217.72689,M=38.104,EQUINOX=J2000,EPOCH=14-JUL-2004:00:00:00			

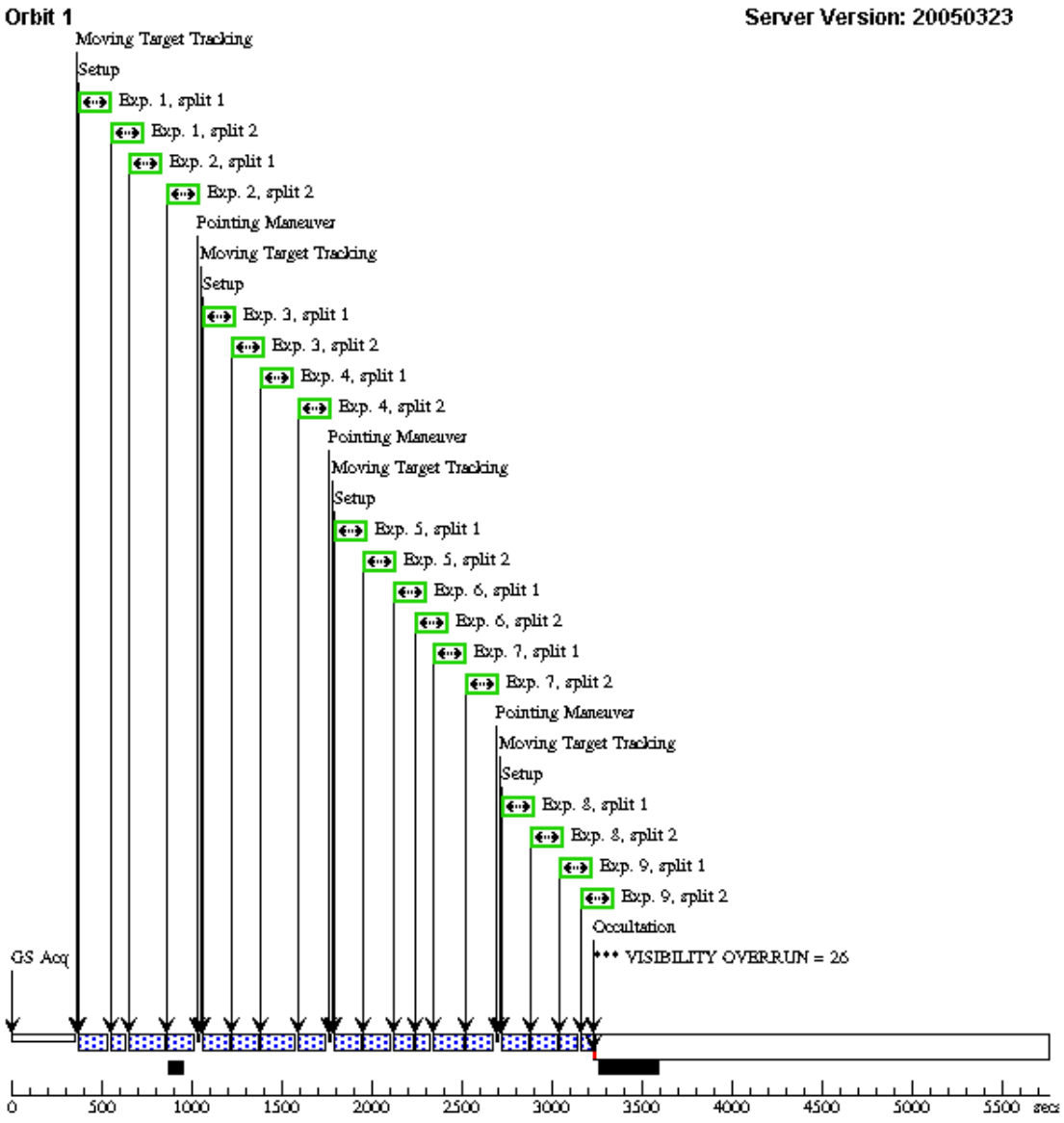
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	22899-SDSSi-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0		90.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
2	22899-JohnsonB-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0		222.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
3	22899-JohnsonB-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283		222.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
4	22899-SDSSz-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283		229.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
5	22899-SDSSz-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148		229.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
6	22899-SDSSi-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148		90.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
7	22899-NarrowV-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148		224.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
8	22899-NarrowV-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135		224.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
9	22899-SDSSi-3	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135		90.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***

Orbit Structure



Visit

Proposal 10165, Visit 07 Wed Apr 27 18:09:22 GMT 2005

Diagnostic Status: No Diagnostics

Scientific Instruments: ACS/HRC

Special Requirements: PCS MODE FINE; AFTER 08 BY 6 D TO 8 D

Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window
(2)	ASTEROID-22899	TYPE=ASTEROID,A=2.844071,E=0.085052,I=2.87792,O=136.15296,W=217.72689,M=38.104,EQUINOX=J2000,EPOCH=14-JUL-2004:00:00:00			

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	22899-SDSSi-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0	Sequence 1-9 Non-Int	90.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
2	22899-JohnsonB-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0	Sequence 1-9 Non-Int	222.0 Secs *[==>99.0 Secs (Split 1)]* *[==>(Split 2)]*	***[1]***
3	22899-JohnsonB-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283	Sequence 1-9 Non-Int	222.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
4	22899-SDSSz-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283	Sequence 1-9 Non-Int	229.0 Secs *[==>102.5 Secs (Split 1)]* *[==>(Split 2)]*	***[1]***
5	22899-SDSSz-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	229.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
6	22899-SDSSi-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	90.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
7	22899-NarrowV-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	224.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
8	22899-NarrowV-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135	Sequence 1-9 Non-Int	224.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
9	22899-SDS Si-3	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135	Sequence 1-9 Non-Int	90.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	*[1]*

Visit

Proposal 10165, Visit 08 Wed Apr 27 18:09:22 GMT 2005

Diagnostic Status: No Diagnostics

Scientific Instruments: ACS/HRC

Special Requirements: PCS MODE FINE; BETWEEN 21-DEC-2004:02:00:00 AND 27-DEC-2004:02:00:00

Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window
(2)	ASTEROID-22899	TYPE=ASTEROID,A=2.844071,E=0.085052,I=2.87792,O=136.15296,W=217.72689,M=38.104,EQUINOX=J2000,EPOCH=14-JUL-2004:00:00:00			

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	22899-SDSSi-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0	Sequence 1-9 Non-Int	90.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	 ***[1]***
2	22899-JohnsonB-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0,0	Sequence 1-9 Non-Int	222.0 Secs *[==>99.0 Secs (Split 1)]* *[==>(Split 2)]*	 ***[1]***
3	22899-JohnsonB-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283	Sequence 1-9 Non-Int	222.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	 ***[1]***
4	22899-SDSSz-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.283,0.283	Sequence 1-9 Non-Int	229.0 Secs *[==>102.5 Secs (Split 1)]* *[==>(Split 2)]*	 ***[1]***
5	22899-SDSSz-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	229.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	 ***[1]***
6	22899-SDSSi-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	90.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	 ***[1]***
7	22899-NarrowV-1	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.567,0.148	Sequence 1-9 Non-Int	224.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	 ***[1]***
8	22899-NarrowV-2	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135	Sequence 1-9 Non-Int	224.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	 ***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
9	17246-SDS Si-3	(2) ASTEROID-22899	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=2; PAREXP=NONE	POS TARG 0.418,-0.135	Sequence 1-9 Non-Int	90.0 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***