



11226 - Hubble Investigation of Comet 8P/Tuttle

Cycle: 16, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) COMET-8P-TUTTLE	WFPC2	1	14-Nov-2007 21:01:17.0	yes
02	(1) COMET-8P-TUTTLE	WFPC2	1	14-Nov-2007 21:01:24.0	yes
03	(1) COMET-8P-TUTTLE	WFPC2	1	14-Nov-2007 21:01:30.0	yes
04	(1) COMET-8P-TUTTLE	WFPC2	1	14-Nov-2007 21:01:36.0	yes
05	(1) COMET-8P-TUTTLE	WFPC2	1	14-Nov-2007 21:01:41.0	yes
06	(1) COMET-8P-TUTTLE	WFPC2	1	14-Nov-2007 21:01:46.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
07	(1) COMET-8P-TUTTLE	WFPC2	1	14-Nov-2007 21:01:53.0	yes
08	(1) COMET-8P-TUTTLE	WFPC2	1	14-Nov-2007 21:01:58.0	yes
09	(1) COMET-8P-TUTTLE	WFPC2	1	14-Nov-2007 21:02:03.0	yes
10	(1) COMET-8P-TUTTLE	WFPC2	1	14-Nov-2007 21:02:07.0	yes
11	(1) COMET-8P-TUTTLE	WFPC2	1	14-Nov-2007 21:02:11.0	yes
12	(1) COMET-8P-TUTTLE	WFPC2	1	14-Nov-2007 21:02:16.0	yes

12 Total Orbits Used

ABSTRACT

Comet 8P/Tuttle is a returning nearly isotropic comet (NIC) with an outstanding apparition in cycle 16, passing within 0.25 AU of the Earth. We propose a 12-orbit Hubble investigation that will allow us to determine the size, shape, rotational period, and color (UBVRI) of 8P, thereby providing the most detailed view of a NIC nucleus since the spacecraft flyby of 1P/Halley in 1986. The return of 8P is a rare opportunity, and we expect many other observatories, including Spitzer, to be investigating this comet. Combining the Hubble results with those from other observatories should yield a comprehensive picture of this NIC that can be compared to the detailed data collected on ecliptic comets (ECs) during the past 3 decades. The differences and similarities between NICs and ECs should yield valuable insights into the origin and evolution of comets.

OBSERVING DESCRIPTION

Shape and rotational information on the nucleus can only be obtained by measuring the lightcurve.

As no rotational information exists for 8P, we must take observations that sample periods ranging from hours up to days. Given the precious nature of HST observing time, we make some compromises in the lightcurve sampling strategy. Our preferred approach is to sample the nucleus over a total of 12 orbits, the first 6 being consecutive followed by 6 observations every other orbit (i.e.,

observe during orbit numbers 1, 2, 3, 4, 5, 6, 8, 10, 12, 14, 16 and 18). This will cover approximately a full day of clock time. If the nucleus has a rotational period of about 2 days, we will then sample half its rotation, which is a full sinusoid because of the double-peaked nature of the lightcurve. This strategy is inherently flexible, and can therefore be adapted to satisfy external constraints, such as SAA impacts or the availability of guide stars. We have extensive experience, gained over the course of 16 years of successful HST observations of comets, and will work with the STScI's planning personnel to optimally schedule the observations of 8P.

Regarding the geometrical circumstances, 8P will be observed a few days before its closest approach to Earth (0.25 AU) in order to avoid times when the comet's proper motion approaches HST's maximum tracking rate, and in order to benefit from a more favorable phase angle (50 deg).

Regarding the ephemerides, comet 8P has been observed at all returns since its discovery, with only one exception because of very unfavorable conditions. Furthermore its orbit is very stable as no encounter with Jupiter is possible. The accuracy of the presently available ephemerides is therefore already adequate for our HST observations.

The total number of orbits requested is 12.

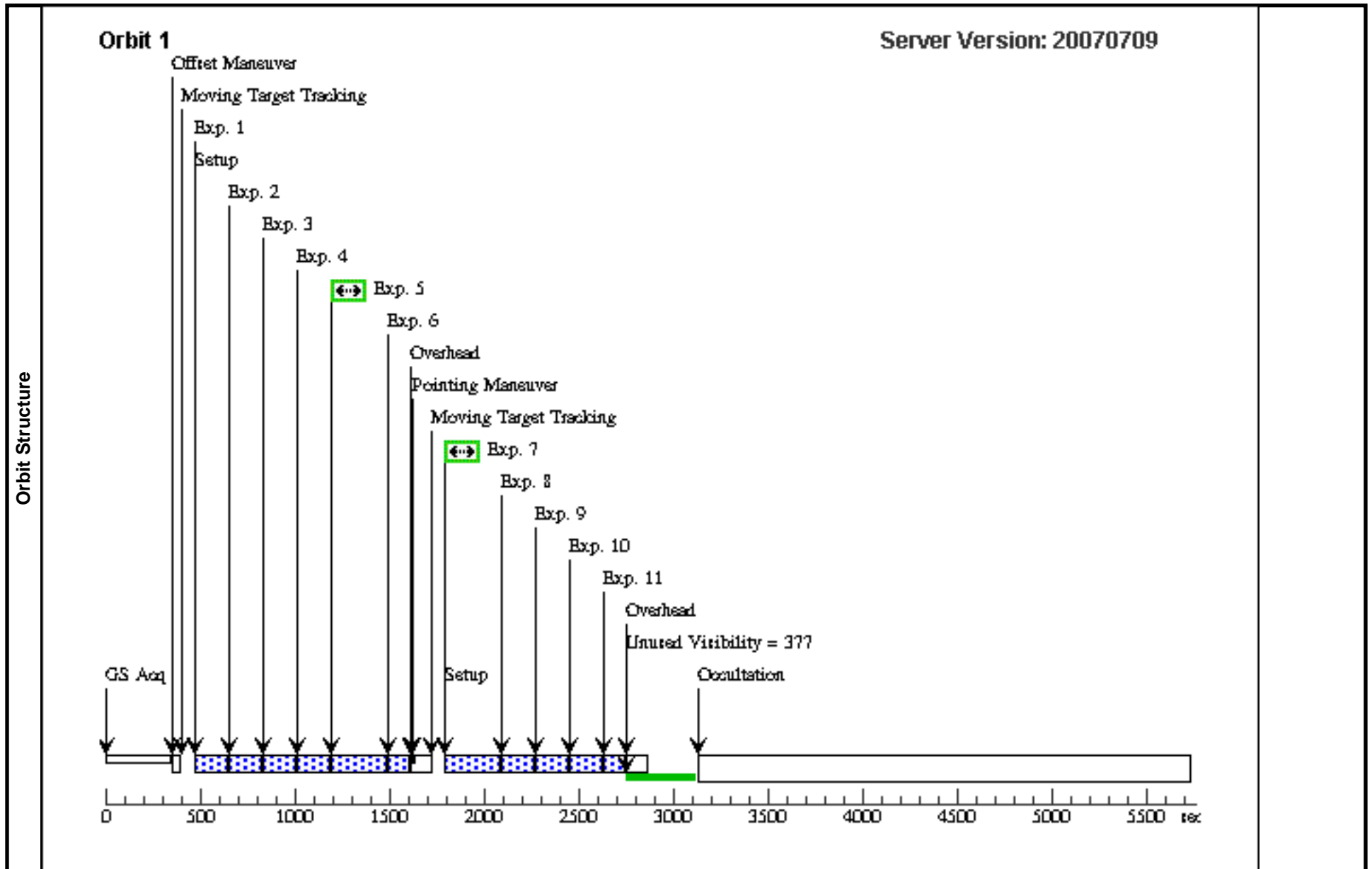
Proposal 11226 - Visit 01 - Hubble Investigation of Comet 8P/Tuttle

Thu Nov 15 02:02:19 GMT 2007

Visit	Proposal 11226, Visit 01, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 10-DEC-2007:00:00:00 AND 24-DEC-2007:00:00:00; SEQ 01,02,03,04,05,06 WITHIN 6.5 Orbits										
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	COMET-8P-TUTTLE	TYPE=COMET,Q=1.02712111207187,E=0.81979884589445,I=54.98317338417127,O=270.3419063870813,W=207.5088904773272,T=27-JAN-2008:00:37:11,EQUINOX=J2000,EPOCH=01-OCT-2007:00:00:00,A1=1.097864E-9,A2=1.393593E-10,A3=-8.611828E-10								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		REQ EPHEM CORR tutv01		4.0 Secs [==>]	[1]	
	2		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 1; REQ EPHEM CORR tutv01		4.0 Secs [==>]	[1]	
	3		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 1; REQ EPHEM CORR tutv01		4.0 Secs [==>]	[1]	
	4		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 1; REQ EPHEM CORR tutv01		35.0 Secs [==>]	[1]	
	5		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		SAME POS AS 1; REQ EPHEM CORR tutv01		140.0 Secs [==>]	[1]	
	6		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 1; REQ EPHEM CORR tutv01		4.0 Secs [==>]	[1]	
	7		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG 0.249,0.249; REQ EPHEM CORR tutv01		140.0 Secs [==>]	[1]	
	8		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 7; REQ EPHEM CORR tutv01		35.0 Secs [==>]	[1]	
9		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 7; REQ EPHEM CORR tutv01		4.0 Secs [==>]	[1]		

Proposal 11226 - Visit 01 - Hubble Investigation of Comet 8P/Tuttle

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		10		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 7; REQ EPHEM CORR tutv01		4.0 Secs [==>]
	11		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv01		4.0 Secs [==>]	[1]



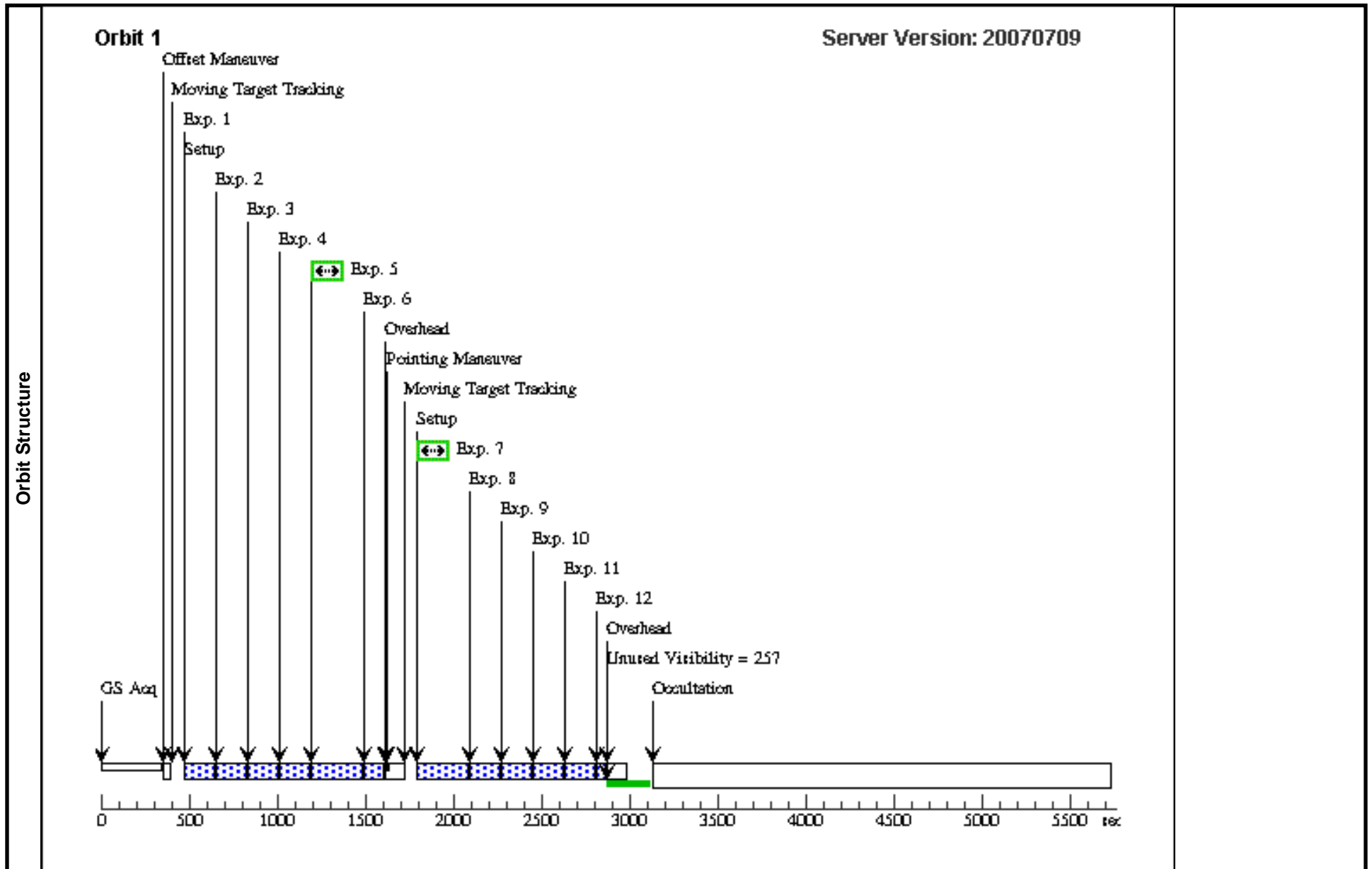
Proposal 11226 - Visit 02 - Hubble Investigation of Comet 8P/Tuttle

Thu Nov 15 02:02:20 GMT 2007

Visit	Proposal 11226, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 10-DEC-2007:00:00:00 AND 24-DEC-2007:00:00:00									
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window			
	(1)	COMET-8P-TUTTLE	TYPE=COMET,Q=1.02712111207187,E=0.81979884589445,I=54.98317338417127,O=270.3419063870813,W=207.5088904773272,T=27-JAN-2008:00:37:11,EQUINOX=J2000,EPOCH=01-OCT-2007:00:00:00,A1=1.097864E-9,A2=1.393593E-10,A3=-8.611828E-10							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		REQ EPHEM CORR tutv02		4.0 Secs [==>]	[1]
	2		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 1; REQ EPHEM CORR tutv02		4.0 Secs [==>]	[1]
	3		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 1; REQ EPHEM CORR tutv02		4.0 Secs [==>]	[1]
	4		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 1; REQ EPHEM CORR tutv02		35.0 Secs [==>]	[1]
	5		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		SAME POS AS 1; REQ EPHEM CORR tutv02		140.0 Secs [==>]	[1]
	6		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 1; REQ EPHEM CORR tutv02		4.0 Secs [==>]	[1]
	7		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG 0.249,0.249; REQ EPHEM CORR tutv02		140.0 Secs [==>]	[1]
	8		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 7; REQ EPHEM CORR tutv02		35.0 Secs [==>]	[1]
9		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 7; REQ EPHEM CORR tutv02		4.0 Secs [==>]	[1]	

Proposal 11226 - Visit 02 - Hubble Investigation of Comet 8P/Tuttle

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 7; REQ EPHEM CORR tutv02		4.0 Secs [==>]	[1]
	11		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv02		4.0 Secs [==>]	[1]
	12		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv02		4.0 Secs [==>]	[1]



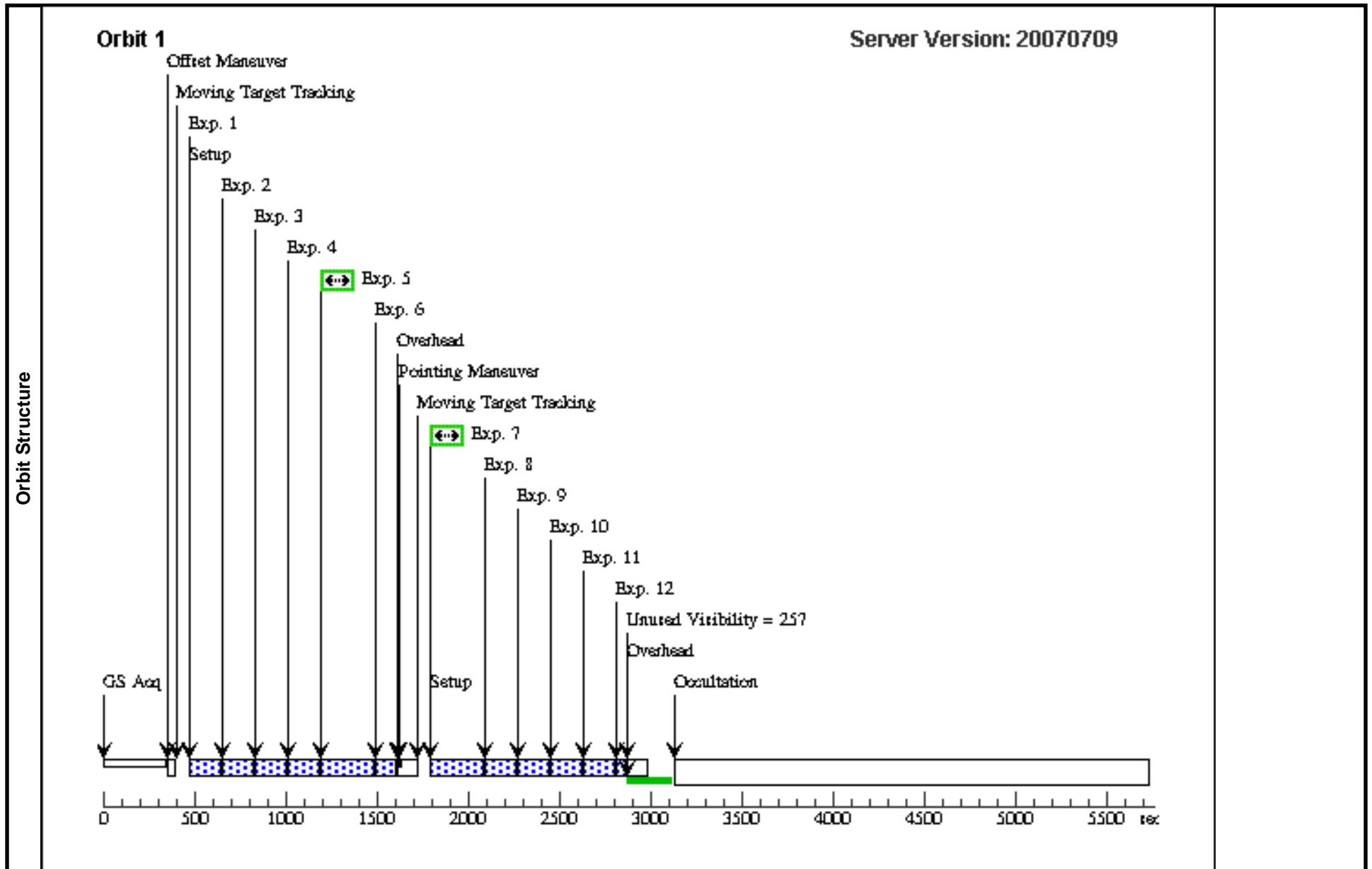
Proposal 11226 - Visit 03 - Hubble Investigation of Comet 8P/Tuttle

Thu Nov 15 02:02:21 GMT 2007

Visit	Proposal 11226, Visit 03, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 10-DEC-2007:00:00:00 AND 24-DEC-2007:00:00:00									
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window			
	(1)	COMET-8P-TUTTLE	TYPE=COMET,Q=1.02712111207187,E=0.81979884589445,I=54.98317338417127,O=270.3419063870813,W=207.5088904773272,T=27-JAN-2008:00:37:11,EQUINOX=J2000,EPOCH=01-OCT-2007:00:00:00,A1=1.097864E-9,A2=1.393593E-10,A3=-8.611828E-10							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		REQ EPHEM CORR tutv03		4.0 Secs [==>]	[1]
	2		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 1; REQ EPHEM CORR tutv03		4.0 Secs [==>]	[1]
	3		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 1; REQ EPHEM CORR tutv03		4.0 Secs [==>]	[1]
	4		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 1; REQ EPHEM CORR tutv03		35.0 Secs [==>]	[1]
	5		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		SAME POS AS 1; REQ EPHEM CORR tutv03		140.0 Secs [==>]	[1]
	6		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 1; REQ EPHEM CORR tutv03		4.0 Secs [==>]	[1]
	7		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG 0.249,0.249; REQ EPHEM CORR tutv03		140.0 Secs [==>]	[1]
	8		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 7; REQ EPHEM CORR tutv03		35.0 Secs [==>]	[1]
9		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 7; REQ EPHEM CORR tutv03		4.0 Secs [==>]	[1]	

Proposal 11226 - Visit 03 - Hubble Investigation of Comet 8P/Tuttle

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 7; REQ EPHEM CORR tutv03		4.0 Secs [==>]	[1]
	11		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv03		4.0 Secs [==>]	[1]
	12		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv03		4.0 Secs [==>]	[1]



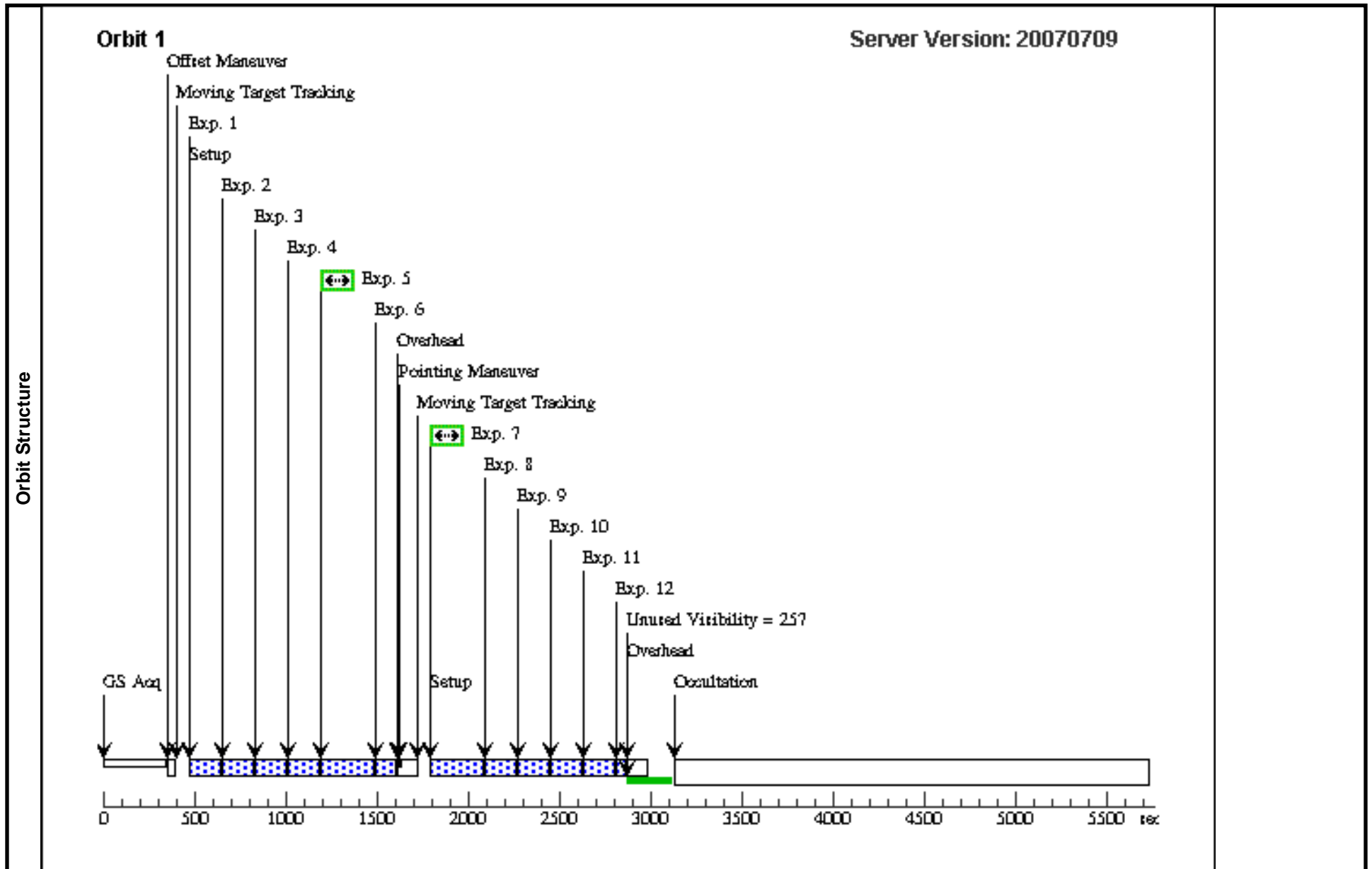
Proposal 11226 - Visit 04 - Hubble Investigation of Comet 8P/Tuttle

Thu Nov 15 02:02:22 GMT 2007

Visit	Proposal 11226, Visit 04, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 10-DEC-2007:00:00:00 AND 24-DEC-2007:00:00:00									
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window			
	(1)	COMET-8P-TUTTLE	TYPE=COMET,Q=1.02712111207187,E=0.81979884589445,I=54.98317338417127,O=270.3419063870813,W=207.5088904773272,T=27-JAN-2008:00:37:11,EQUINOX=J2000,EPOCH=01-OCT-2007:00:00:00,A1=1.097864E-9,A2=1.393593E-10,A3=-8.611828E-10							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		REQ EPHEM CORR tutv04		4.0 Secs [==>]	[1]
	2		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 1; REQ EPHEM CORR tutv04		4.0 Secs [==>]	[1]
	3		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 1; REQ EPHEM CORR tutv04		4.0 Secs [==>]	[1]
	4		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 1; REQ EPHEM CORR tutv04		35.0 Secs [==>]	[1]
	5		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		SAME POS AS 1; REQ EPHEM CORR tutv04		140.0 Secs [==>]	[1]
	6		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 1; REQ EPHEM CORR tutv04		4.0 Secs [==>]	[1]
	7		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG 0.249,0.249; REQ EPHEM CORR tutv04		140.0 Secs [==>]	[1]
	8		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 7; REQ EPHEM CORR tutv04		35.0 Secs [==>]	[1]
9		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 7; REQ EPHEM CORR tutv04		4.0 Secs [==>]	[1]	

Proposal 11226 - Visit 04 - Hubble Investigation of Comet 8P/Tuttle

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 7; REQ EPHEM CORR tutv04		4.0 Secs [==>]	[1]
	11		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv04		4.0 Secs [==>]	[1]
	12		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv04		4.0 Secs [==>]	[1]



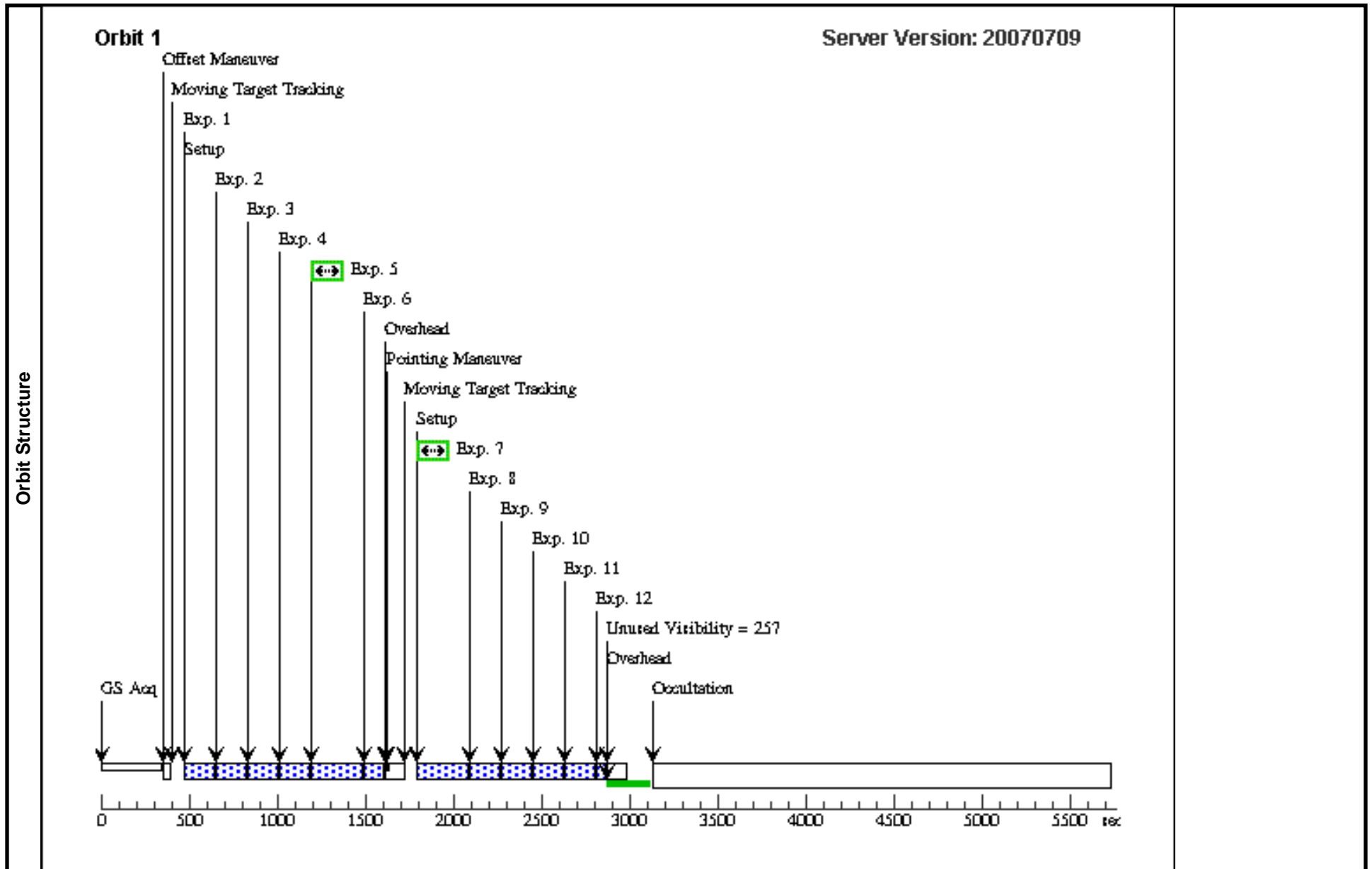
Proposal 11226 - Visit 05 - Hubble Investigation of Comet 8P/Tuttle

Thu Nov 15 02:02:23 GMT 2007

Visit	Proposal 11226, Visit 05, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 10-DEC-2007:00:00:00 AND 24-DEC-2007:00:00:00									
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window			
	(1)	COMET-8P-TUTTLE	TYPE=COMET,Q=1.02712111207187,E=0.81979884589445,I=54.98317338417127,O=270.3419063870813,W=207.5088904773272,T=27-JAN-2008:00:37:11,EQUINOX=J2000,EPOCH=01-OCT-2007:00:00:00,A1=1.097864E-9,A2=1.393593E-10,A3=-8.611828E-10							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		REQ EPHEM CORR tutv05		4.0 Secs [==>]	[1]
	2		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 1; REQ EPHEM CORR tutv05		4.0 Secs [==>]	[1]
	3		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 1; REQ EPHEM CORR tutv05		4.0 Secs [==>]	[1]
	4		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 1; REQ EPHEM CORR tutv05		35.0 Secs [==>]	[1]
	5		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		SAME POS AS 1; REQ EPHEM CORR tutv05		140.0 Secs [==>]	[1]
	6		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 1; REQ EPHEM CORR tutv05		4.0 Secs [==>]	[1]
	7		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG 0.249,0.249; REQ EPHEM CORR tutv05		140.0 Secs [==>]	[1]
	8		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 7; REQ EPHEM CORR tutv05		35.0 Secs [==>]	[1]
9		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 7; REQ EPHEM CORR tutv05		4.0 Secs [==>]	[1]	

Proposal 11226 - Visit 05 - Hubble Investigation of Comet 8P/Tuttle

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 7; REQ EPHEM CORR tutv05		4.0 Secs [==>]	[1]
	11		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv05		4.0 Secs [==>]	[1]
	12		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv05		4.0 Secs [==>]	[1]



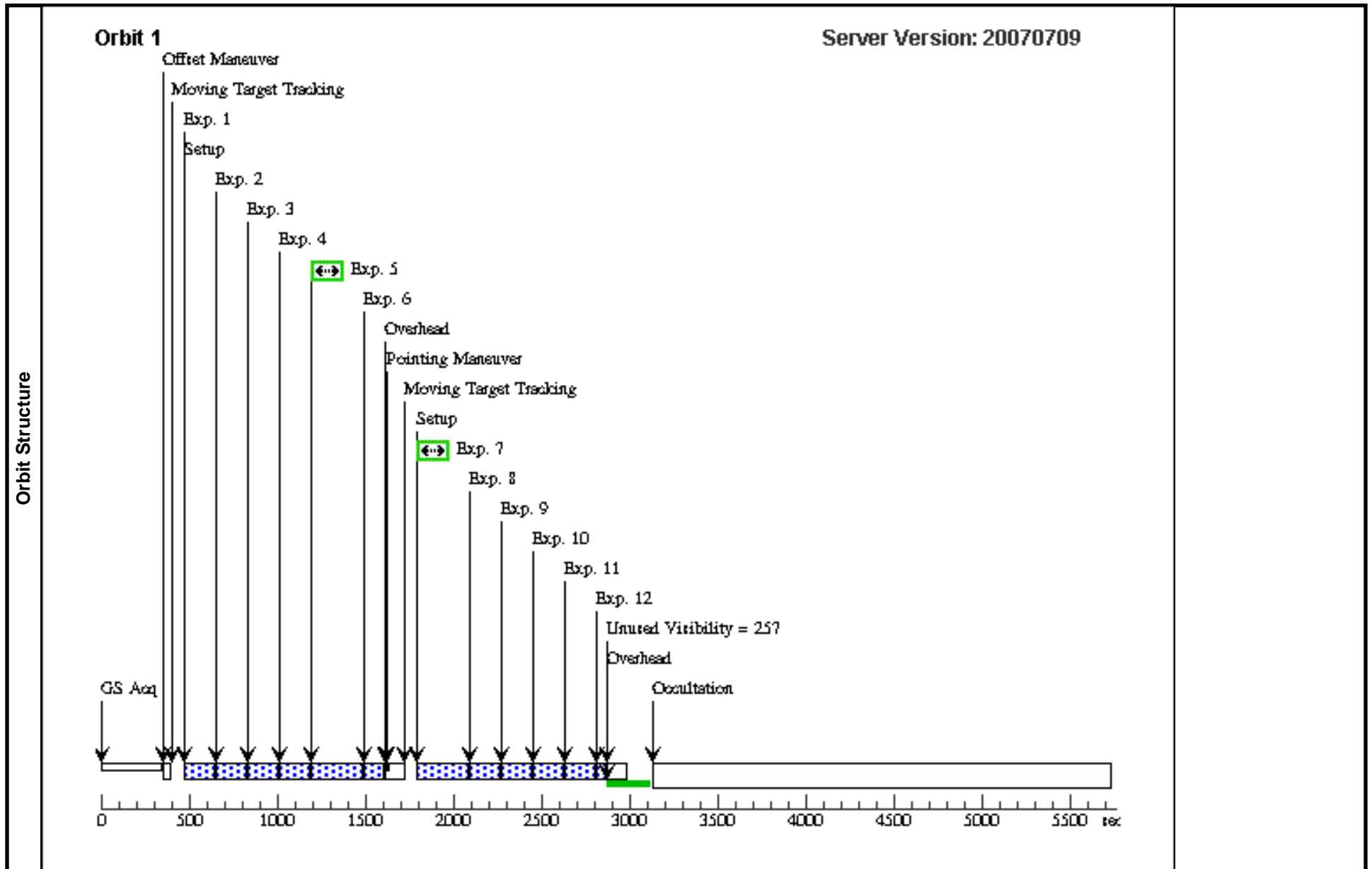
Proposal 11226 - Visit 06 - Hubble Investigation of Comet 8P/Tuttle

Thu Nov 15 02:02:23 GMT 2007

Visit	Proposal 11226, Visit 06, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: BETWEEN 10-DEC-2007:00:00:00 AND 24-DEC-2007:00:00:00									
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window			
	(1)	COMET-8P-TUTTLE	TYPE=COMET,Q=1.02712111207187,E=0.81979884589445,I=54.98317338417127,O=270.3419063870813,W=207.5088904773272,T=27-JAN-2008:00:37:11,EQUINOX=J2000,EPOCH=01-OCT-2007:00:00:00,A1=1.097864E-9,A2=1.393593E-10,A3=-8.611828E-10							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		REQ EPHEM CORR tutv06		4.0 Secs [==>]	[1]
	2		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 1; REQ EPHEM CORR tutv06		4.0 Secs [==>]	[1]
	3		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 1; REQ EPHEM CORR tutv06		4.0 Secs [==>]	[1]
	4		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 1; REQ EPHEM CORR tutv06		35.0 Secs [==>]	[1]
	5		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		SAME POS AS 1; REQ EPHEM CORR tutv06		140.0 Secs [==>]	[1]
	6		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 1; REQ EPHEM CORR tutv06		4.0 Secs [==>]	[1]
	7		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG 0.249,0.249; REQ EPHEM CORR tutv06		140.0 Secs [==>]	[1]
	8		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 7; REQ EPHEM CORR tutv06		35.0 Secs [==>]	[1]
9		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 7; REQ EPHEM CORR tutv06		4.0 Secs [==>]	[1]	

Proposal 11226 - Visit 06 - Hubble Investigation of Comet 8P/Tuttle

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 7; REQ EPHEM CORR tutv06		4.0 Secs [==>]	[1]
	11		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv06		4.0 Secs [==>]	[1]
	12		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv06		4.0 Secs [==>]	[1]



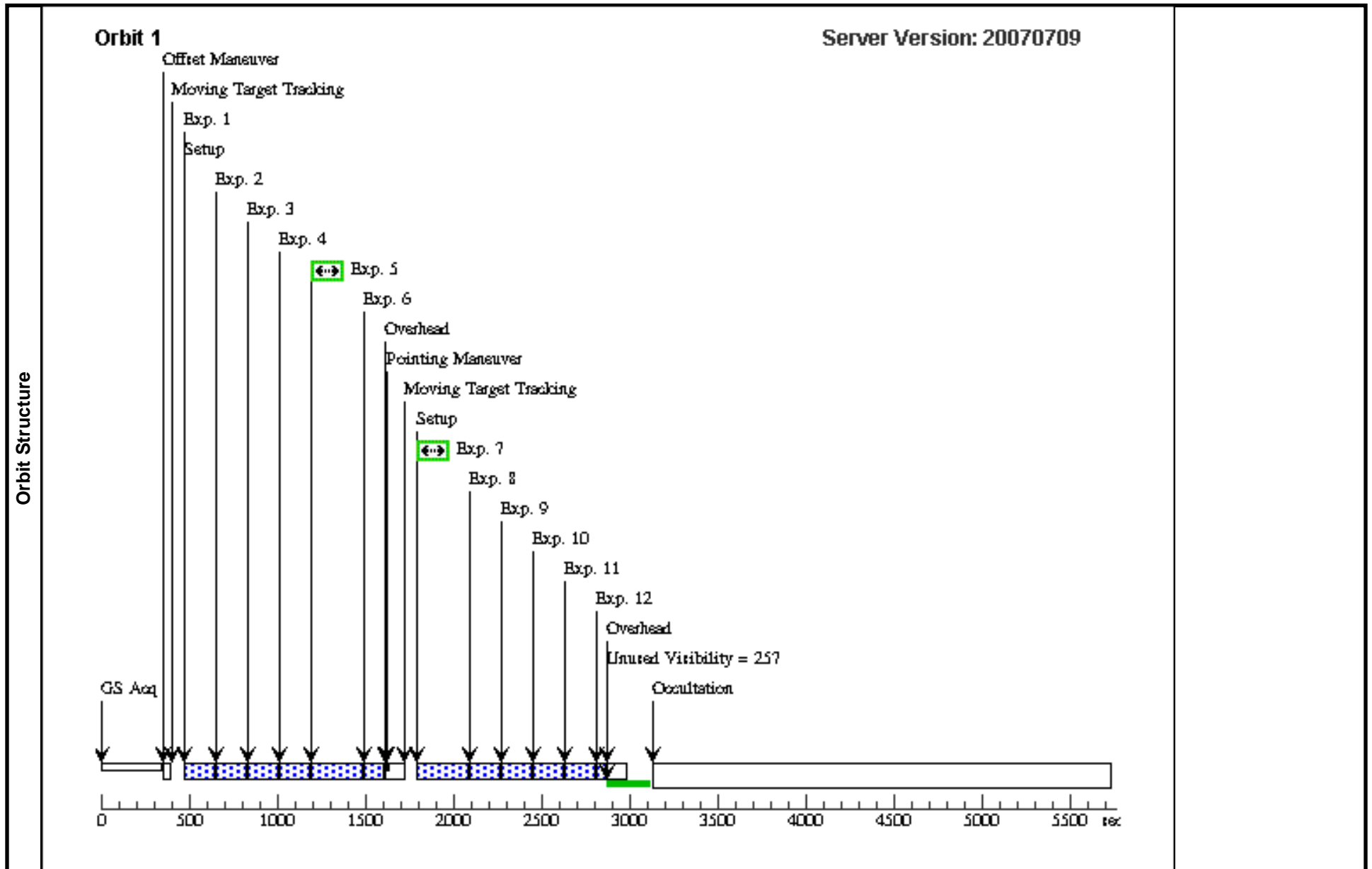
Proposal 11226 - Visit 07 - Hubble Investigation of Comet 8P/Tuttle

Thu Nov 15 02:02:24 GMT 2007

Visit	Proposal 11226, Visit 07, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: AFTER 06 BY 1.5 Orbits TO 2.5 Orbits; BETWEEN 10-DEC-2007:00:00:00 AND 24-DEC-2007:00:00:00										
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	COMET-8P-TUTTLE	TYPE=COMET,Q=1.02712111207187,E=0.81979884589445,I=54.98317338417127,O=270.3419063870813,W=207.5088904773272,T=27-JAN-2008:00:37:11,EQUINOX=J2000,EPOCH=01-OCT-2007:00:00:00,A1=1.097864E-9,A2=1.393593E-10,A3=-8.611828E-10								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		REQ EPHEM CORR tutv07		4.0 Secs [==>]	[1]	
	2		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 1; REQ EPHEM CORR tutv07		4.0 Secs [==>]	[1]	
	3		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 1; REQ EPHEM CORR tutv07		4.0 Secs [==>]	[1]	
	4		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 1; REQ EPHEM CORR tutv07		35.0 Secs [==>]	[1]	
	5		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		SAME POS AS 1; REQ EPHEM CORR tutv07		140.0 Secs [==>]	[1]	
	6		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 1; REQ EPHEM CORR tutv07		4.0 Secs [==>]	[1]	
	7		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG 0.249,0.249; REQ EPHEM CORR tutv07		140.0 Secs [==>]	[1]	
	8		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 7; REQ EPHEM CORR tutv07		35.0 Secs [==>]	[1]	
9		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 7; REQ EPHEM CORR tutv07		4.0 Secs [==>]	[1]		

Proposal 11226 - Visit 07 - Hubble Investigation of Comet 8P/Tuttle

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 7; REQ EPHEM CORR tutv07		4.0 Secs [==>]	[1]
	11		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv07		4.0 Secs [==>]	[1]
	12		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv07		4.0 Secs [==>]	[1]



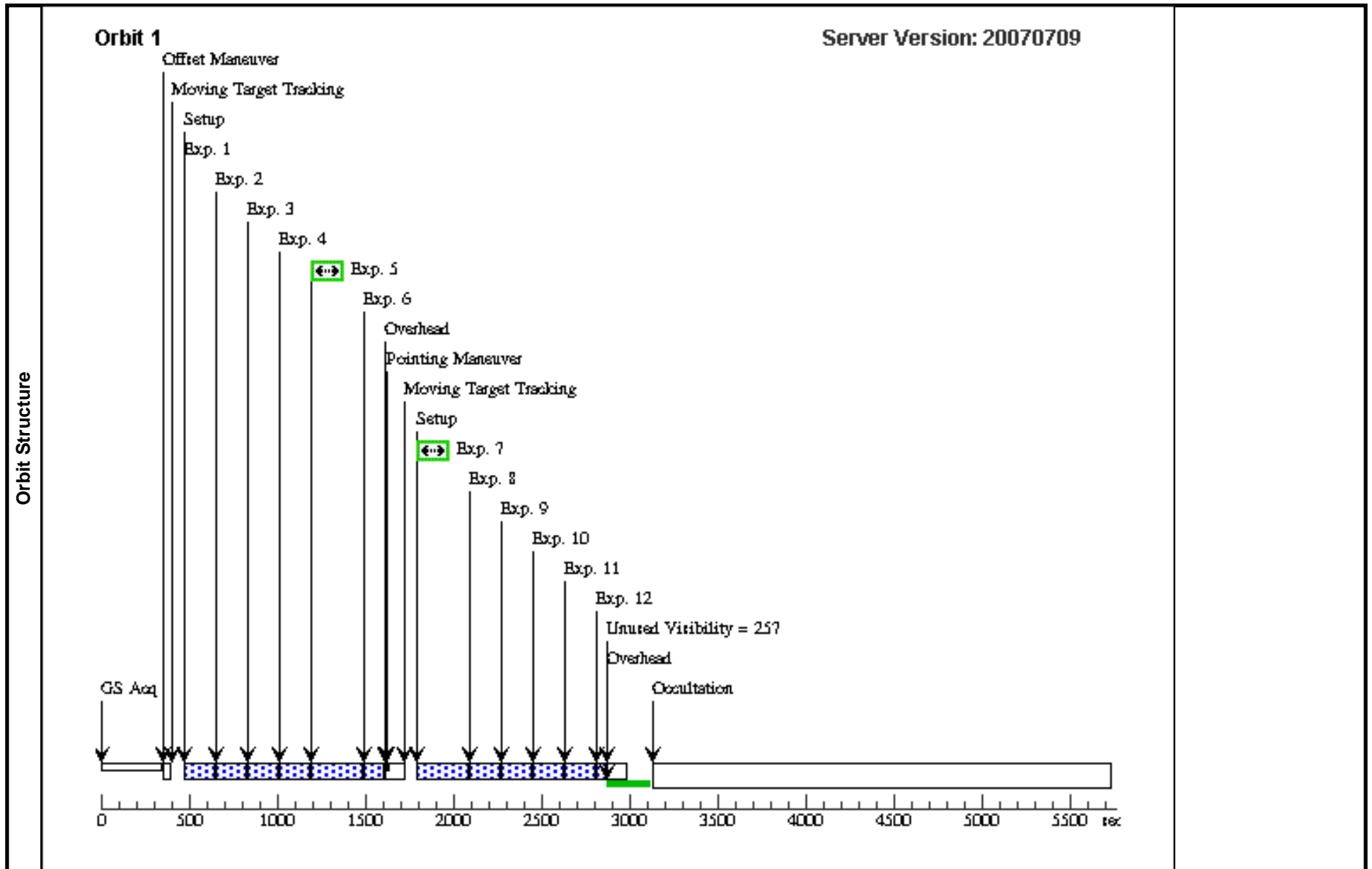
Proposal 11226 - Visit 08 - Hubble Investigation of Comet 8P/Tuttle

Thu Nov 15 02:02:24 GMT 2007

Visit	Proposal 11226, Visit 08, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: AFTER 07 BY 1.5 Orbits TO 2.5 Orbits; BETWEEN 10-DEC-2007:00:00:00 AND 24-DEC-2007:00:00:00										
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	COMET-8P-TUTTLE	TYPE=COMET,Q=1.02712111207187,E=0.81979884589445,I=54.98317338417127,O=270.3419063870813,W=207.5088904773272,T=27-JAN-2008:00:37:11,EQUINOX=J2000,EPOCH=01-OCT-2007:00:00:00,A1=1.097864E-9,A2=1.393593E-10,A3=-8.611828E-10								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		REQ EPHEM CORR tutv08		4.0 Secs [==>]	[1]	
	2		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 1; REQ EPHEM CORR tutv08		4.0 Secs [==>]	[1]	
	3		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 1; REQ EPHEM CORR tutv08		4.0 Secs [==>]	[1]	
	4		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 1; REQ EPHEM CORR tutv08		35.0 Secs [==>]	[1]	
	5		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		SAME POS AS 1; REQ EPHEM CORR tutv08		140.0 Secs [==>]	[1]	
	6		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 1; REQ EPHEM CORR tutv08		4.0 Secs [==>]	[1]	
	7		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG 0.249,0.249; REQ EPHEM CORR tutv08		140.0 Secs [==>]	[1]	
	8		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 7; REQ EPHEM CORR tutv08		35.0 Secs [==>]	[1]	
9		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 7; REQ EPHEM CORR tutv08		4.0 Secs [==>]	[1]		

Proposal 11226 - Visit 08 - Hubble Investigation of Comet 8P/Tuttle

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 7; REQ EPHEM CORR tutv08		4.0 Secs [==>]	[1]
	11		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv08		4.0 Secs [==>]	[1]
	12		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv08		4.0 Secs [==>]	[1]



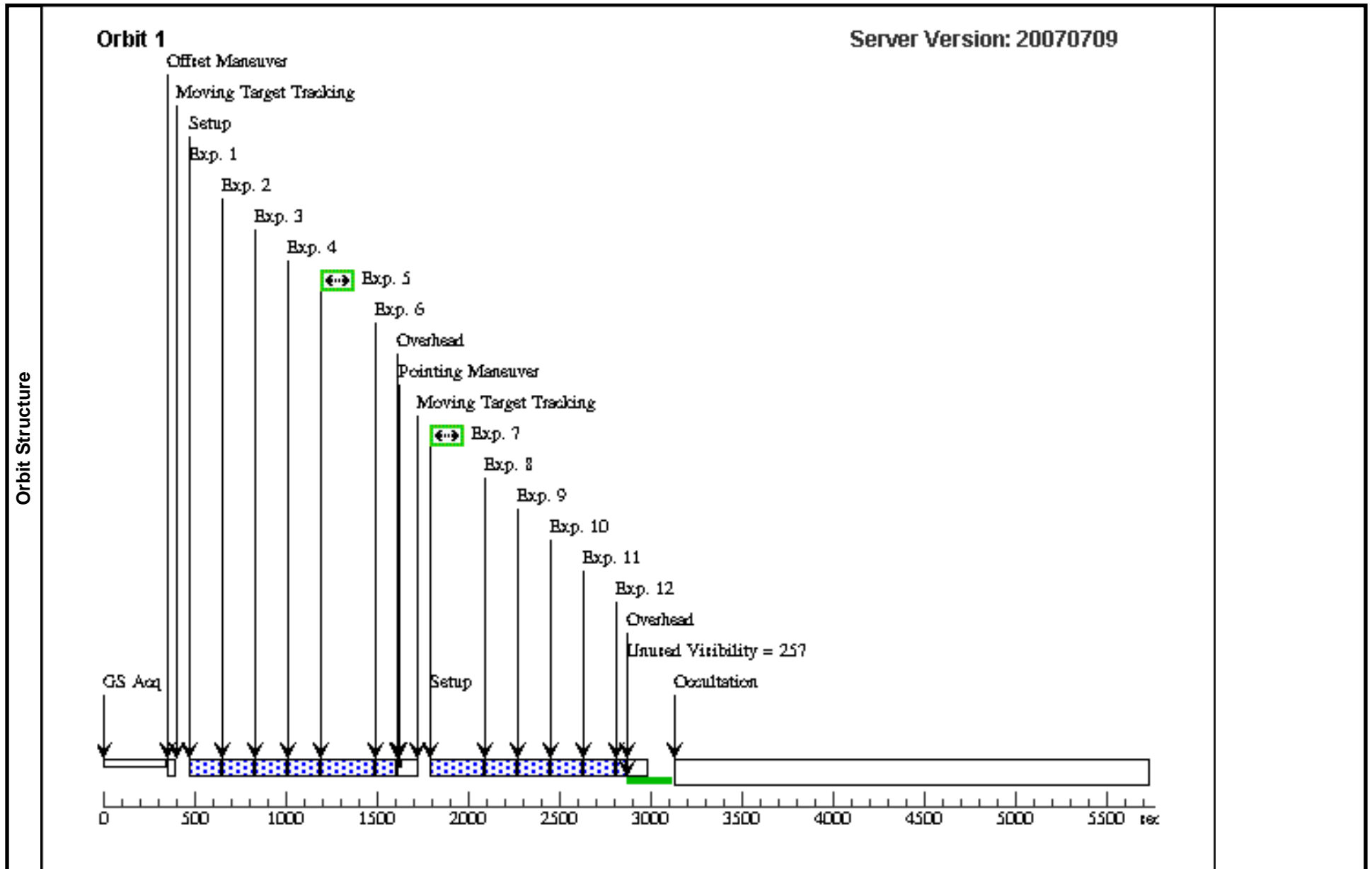
Proposal 11226 - Visit 09 - Hubble Investigation of Comet 8P/Tuttle

Thu Nov 15 02:02:25 GMT 2007

Visit	Proposal 11226, Visit 09, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: AFTER 08 BY 1.5 Orbits TO 2.5 Orbits; BETWEEN 10-DEC-2007:00:00:00 AND 24-DEC-2007:00:00:00										
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	COMET-8P-TUTTLE	TYPE=COMET,Q=1.02712111207187,E=0.81979884589445,I=54.98317338417127,O=270.3419063870813,W=207.5088904773272,T=27-JAN-2008:00:37:11,EQUINOX=J2000,EPOCH=01-OCT-2007:00:00:00,A1=1.097864E-9,A2=1.393593E-10,A3=-8.611828E-10								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		REQ EPHEM CORR tutv09		4.0 Secs [==>]	[1]	
	2		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 1; REQ EPHEM CORR tutv09		4.0 Secs [==>]	[1]	
	3		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 1; REQ EPHEM CORR tutv09		4.0 Secs [==>]	[1]	
	4		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 1; REQ EPHEM CORR tutv09		35.0 Secs [==>]	[1]	
	5		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		SAME POS AS 1; REQ EPHEM CORR tutv09		140.0 Secs [==>]	[1]	
	6		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 1; REQ EPHEM CORR tutv09		4.0 Secs [==>]	[1]	
	7		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG 0.249,0.249; REQ EPHEM CORR tutv09		140.0 Secs [==>]	[1]	
	8		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 7; REQ EPHEM CORR tutv09		35.0 Secs [==>]	[1]	
9		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 7; REQ EPHEM CORR tutv09		4.0 Secs [==>]	[1]		

Proposal 11226 - Visit 09 - Hubble Investigation of Comet 8P/Tuttle

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 7; REQ EPHEM CORR tutv09		4.0 Secs [==>]	[1]
	11		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv09		4.0 Secs [==>]	[1]
	12		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv09		4.0 Secs [==>]	[1]



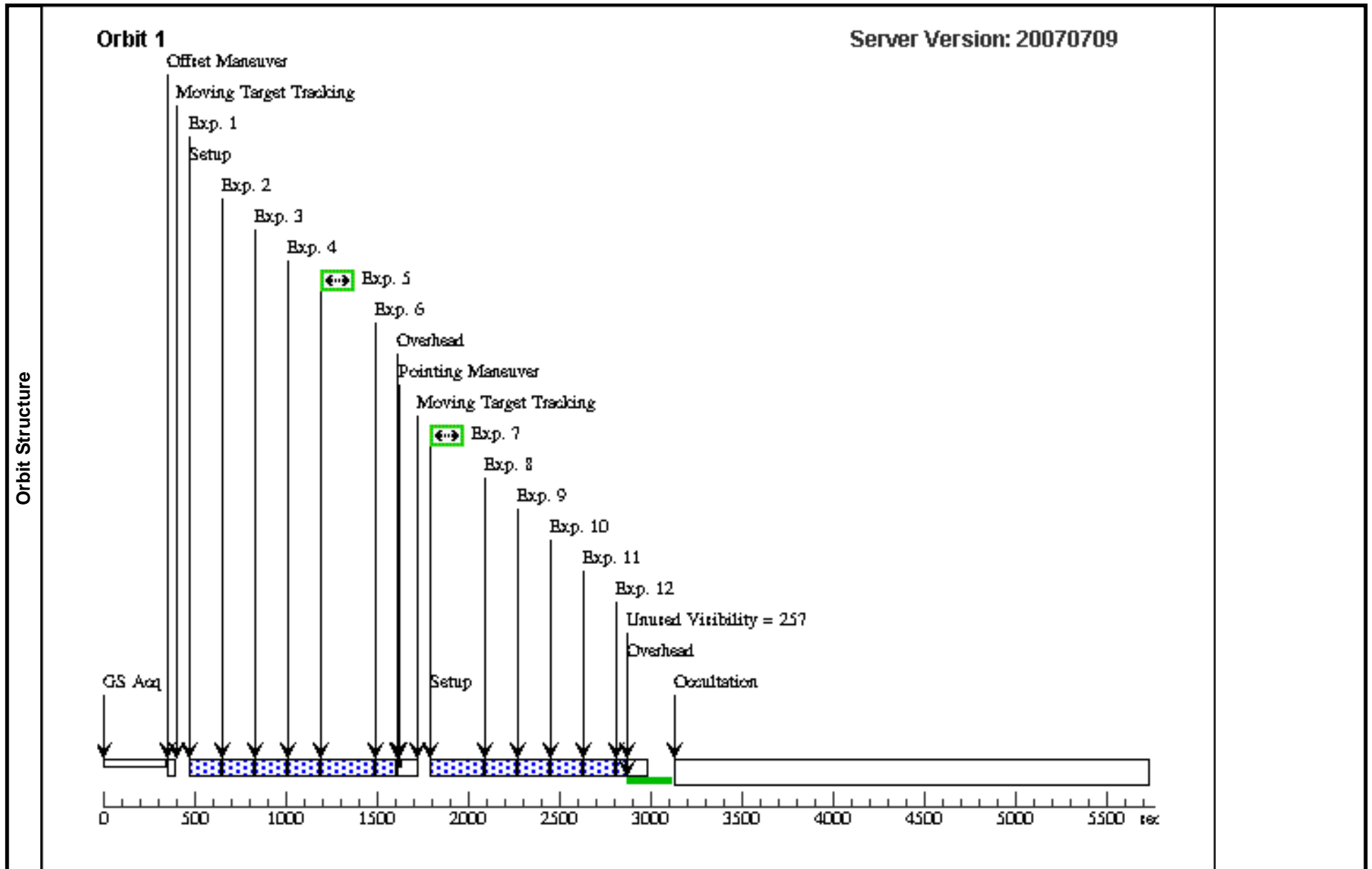
Proposal 11226 - Visit 10 - Hubble Investigation of Comet 8P/Tuttle

Thu Nov 15 02:02:25 GMT 2007

Visit	Proposal 11226, Visit 10, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: AFTER 09 BY 1.5 Orbits TO 2.5 Orbits; BETWEEN 10-DEC-2007:00:00:00 AND 24-DEC-2007:00:00:00										
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	COMET-8P-TUTTLE	TYPE=COMET,Q=1.02712111207187,E=0.81979884589445,I=54.98317338417127,O=270.3419063870813,W=207.5088904773272,T=27-JAN-2008:00:37:11,EQUINOX=J2000,EPOCH=01-OCT-2007:00:00:00,A1=1.097864E-9,A2=1.393593E-10,A3=-8.611828E-10								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		REQ EPHEM CORR tutv10		4.0 Secs [==>]	[1]	
	2		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 1; REQ EPHEM CORR tutv10		4.0 Secs [==>]	[1]	
	3		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 1; REQ EPHEM CORR tutv10		4.0 Secs [==>]	[1]	
	4		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 1; REQ EPHEM CORR tutv10		35.0 Secs [==>]	[1]	
	5		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		SAME POS AS 1; REQ EPHEM CORR tutv10		140.0 Secs [==>]	[1]	
	6		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 1; REQ EPHEM CORR tutv10		4.0 Secs [==>]	[1]	
	7		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG 0.249,0.249; REQ EPHEM CORR tutv10		140.0 Secs [==>]	[1]	
	8		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 7; REQ EPHEM CORR tutv10		35.0 Secs [==>]	[1]	
9		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 7; REQ EPHEM CORR tutv10		4.0 Secs [==>]	[1]		

Proposal 11226 - Visit 10 - Hubble Investigation of Comet 8P/Tuttle

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 7; REQ EPHEM CORR tutv10		4.0 Secs [==>]	[1]
	11		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv10		4.0 Secs [==>]	[1]
	12		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv10		4.0 Secs [==>]	[1]



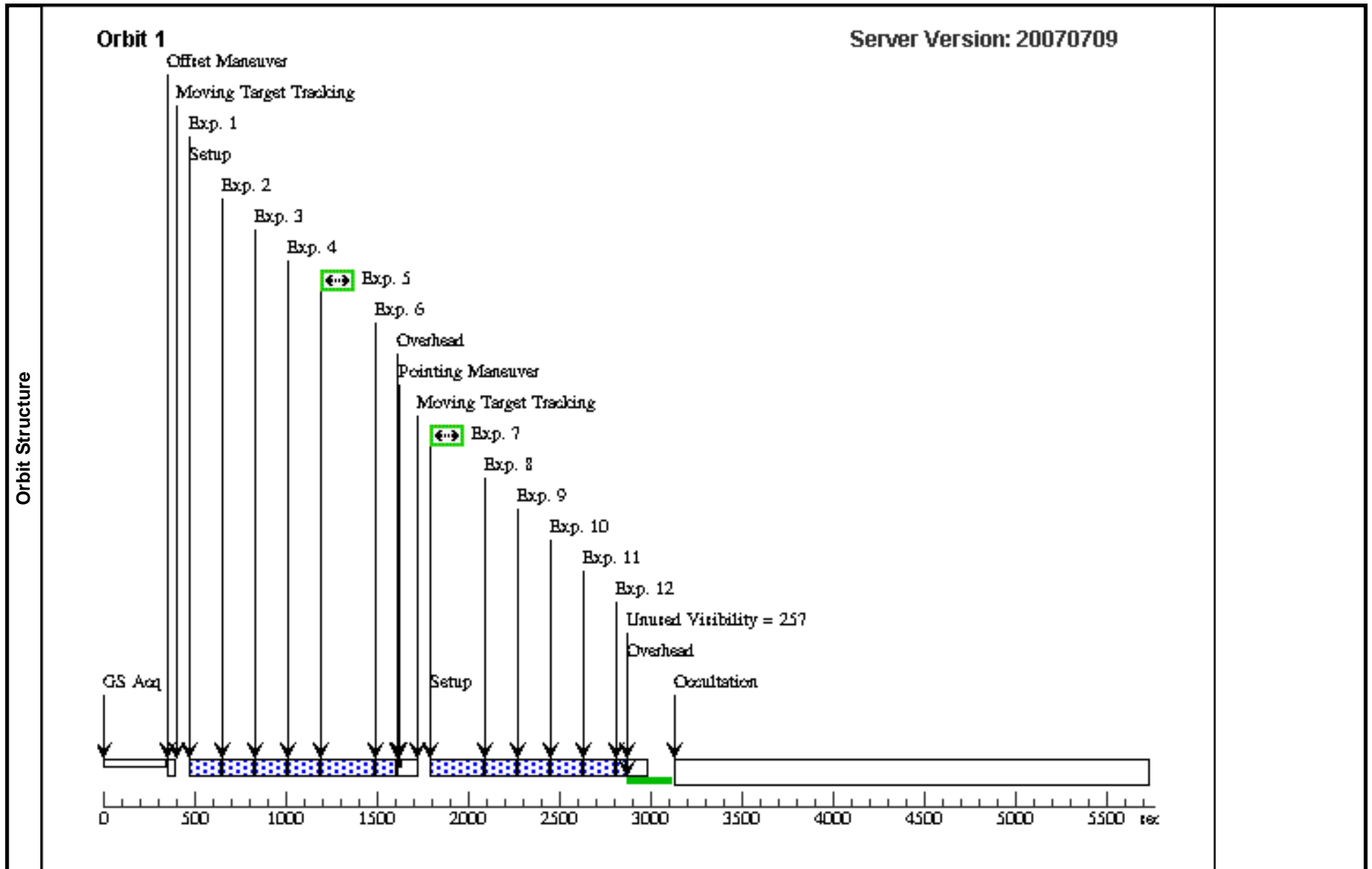
Proposal 11226 - Visit 11 - Hubble Investigation of Comet 8P/Tuttle

Thu Nov 15 02:02:26 GMT 2007

Visit	Proposal 11226, Visit 11, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: AFTER 10 BY 1.5 Orbits TO 2.5 Orbits; BETWEEN 10-DEC-2007:00:00:00 AND 24-DEC-2007:00:00:00										
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	COMET-8P-TUTTLE	TYPE=COMET,Q=1.02712111207187,E=0.81979884589445,I=54.98317338417127,O=270.3419063870813,W=207.5088904773272,T=27-JAN-2008:00:37:11,EQUINOX=J2000,EPOCH=01-OCT-2007:00:00:00,A1=1.097864E-9,A2=1.393593E-10,A3=-8.611828E-10								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		REQ EPHEM CORR tutv11		4.0 Secs [==>]	[1]	
	2		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 1; REQ EPHEM CORR tutv11		4.0 Secs [==>]	[1]	
	3		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 1; REQ EPHEM CORR tutv11		4.0 Secs [==>]	[1]	
	4		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 1; REQ EPHEM CORR tutv11		35.0 Secs [==>]	[1]	
	5		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		SAME POS AS 1; REQ EPHEM CORR tutv11		140.0 Secs [==>]	[1]	
	6		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 1; REQ EPHEM CORR tutv11		4.0 Secs [==>]	[1]	
	7		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG 0.249,0.249; REQ EPHEM CORR tutv11		140.0 Secs [==>]	[1]	
	8		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 7; REQ EPHEM CORR tutv11		35.0 Secs [==>]	[1]	
9		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 7; REQ EPHEM CORR tutv11		4.0 Secs [==>]	[1]		

Proposal 11226 - Visit 11 - Hubble Investigation of Comet 8P/Tuttle

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 7; REQ EPHEM CORR tutv11		4.0 Secs [==>]	[1]
	11		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv11		4.0 Secs [==>]	[1]
	12		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv11		4.0 Secs [==>]	[1]



Proposal 11226 - Visit 12 - Hubble Investigation of Comet 8P/Tuttle

Thu Nov 15 02:02:27 GMT 2007

Visit	Proposal 11226, Visit 12, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: AFTER 11 BY 1.5 Orbits TO 2.5 Orbits; BETWEEN 10-DEC-2007:00:00:00 AND 24-DEC-2007:00:00:00										
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	COMET-8P-TUTTLE	TYPE=COMET,Q=1.02712111207187,E=0.81979884589445,I=54.98317338417127,O=270.3419063870813,W=207.5088904773272,T=27-JAN-2008:00:37:11,EQUINOX=J2000,EPOCH=01-OCT-2007:00:00:00,A1=1.097864E-9,A2=1.393593E-10,A3=-8.611828E-10								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		REQ EPHEM CORR tutv12		4.0 Secs [==>]	[1]	
	2		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 1; REQ EPHEM CORR tutv12		4.0 Secs [==>]	[1]	
	3		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 1; REQ EPHEM CORR tutv12		4.0 Secs [==>]	[1]	
	4		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 1; REQ EPHEM CORR tutv12		35.0 Secs [==>]	[1]	
	5		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		SAME POS AS 1; REQ EPHEM CORR tutv12		140.0 Secs [==>]	[1]	
	6		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 1; REQ EPHEM CORR tutv12		4.0 Secs [==>]	[1]	
	7		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG 0.249,0.249; REQ EPHEM CORR tutv12		140.0 Secs [==>]	[1]	
	8		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F439W		SAME POS AS 7; REQ EPHEM CORR tutv12		35.0 Secs [==>]	[1]	
9		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F814W		SAME POS AS 7; REQ EPHEM CORR tutv12		4.0 Secs [==>]	[1]		

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Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F555W		SAME POS AS 7; REQ EPHEM CORR tutv12		4.0 Secs [==>]	[1]
	11		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv12		4.0 Secs [==>]	[1]
	12		(1) COMET-8P-TUT TLE	WFPC2, IMAGE, PC1-FIX	F675W		SAME POS AS 7; REQ EPHEM CORR tutv12		4.0 Secs [==>]	[1]

