12448 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Cycle: 18, Proposal Category: GO/DD

(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?*
01	(1) T-PYX CCDFLAT	STIS/CCD	1	16-Jan-2013 21:01:59.0	yes
02	(1) T-PYX CCDFLAT	STIS/CCD	1	16-Jan-2013 21:02:11.0	yes
03	(1) T-PYX CCDFLAT	STIS/CCD	1	16-Jan-2013 21:02:23.0	yes
04	(1) T-PYX CCDFLAT	STIS/CCD	1	16-Jan-2013 21:02:32.0	yes
11	(1) T-PYX CCDFLAT	STIS/CCD	1	16-Jan-2013 21:02:41.0	yes
12	(1) T-PYX	WFC3/UVIS	1	16-Jan-2013 21:02:52.0	yes
13	(1) T-PYX	WFC3/UVIS	1	16-Jan-2013 21:03:00.0	yes
14	(1) T-PYX	WFC3/UVIS	1	16-Jan-2013 21:03:09.0	yes
15	(1) T-PYX	WFC3/UVIS	1	16-Jan-2013 21:03:16.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
16	(1) T-PYX	WFC3/UVIS	1	16-Jan-2013 21:03:22.0	yes
17	(1) T-PYX	WFC3/UVIS	1	16-Jan-2013 21:03:30.0	yes
18	(1) T-PYX	WFC3/UVIS	1	16-Jan-2013 21:03:35.0	yes
19	(1) T-PYX CCDFLAT	STIS/CCD	1	16-Jan-2013 21:03:43.0	yes
20	(1) T-PYX CCDFLAT	STIS/CCD	1	16-Jan-2013 21:03:53.0	yes
21	(1) T-PYX CCDFLAT	STIS/CCD	1	16-Jan-2013 21:04:03.0	yes
22	(1) T-PYX CCDFLAT	STIS/CCD	1	16-Jan-2013 21:04:13.0	yes
58	(1) T-PYX	WFC3/UVIS	1	16-Jan-2013 21:04:19.0	yes
23	(1) T-PYX	WFC3/UVIS	2	16-Jan-2013 21:04:25.0	yes
24	(1) T-PYX	WFC3/UVIS	2	16-Jan-2013 21:04:32.0	yes
25	(1) T-PYX	WFC3/UVIS	2	16-Jan-2013 21:04:38.0	yes
59	(1) T-PYX CCDFLAT	STIS/CCD WFC3/UVIS	3	16-Jan-2013 21:05:15.0	yes
60	(1) T-PYX CCDFLAT	STIS/CCD WFC3/UVIS	3	16-Jan-2013 21:05:56.0	yes
61	(1) T-PYX CCDFLAT	STIS/CCD	1	16-Jan-2013 21:06:13.0	yes
62	(1) T-PYX CCDFLAT	STIS/CCD	1	16-Jan-2013 21:06:22.0	yes
63	(1) T-PYX CCDFLAT	STIS/CCD WFC3/UVIS	2	16-Jan-2013 21:06:42.0	yes

33 Total Orbits Used

ABSTRACT

The well-known recurrent nova T Pyx is undergoing an outburst, the only one HST will ever observe for this object. Because of the existence of the shell from previous eruptions, T Pyx is in a unique position to answer long-standing questions about both binary stellar evolution and novae - the most common major stellar explosions in the universe. This opportunity allows us to dissect T Pyx's surrounding with various light echo techniques. While the flash from the current eruption serves as a probe of the shell, the shell itself serves as a mirror that reflects the current eruption to us, repeatedly, from multiple angles. Although a series narrow-band HST observations to observe the light echo are already planned, those observations will not provide most of the information needed to take full advantage of the shell around this nova. We propose the first urgent installment of a more extensive program of spectroscopy and multi-band imaging that will both enhance the value of the approved narrow-band imaging as well as enable a much more comprehensive investigation of both the old nova shell and the physics of the current eruption. In particular, our proposed observations will provide an unambiguous determination of the geometry and kinematics of the shell, its mass, density, composition and energetics. Due to the practicalities of scheduling HST and the evolution of T Pyx, the first epoch of spectroscopic observation must occur before 2011 May 23, so is herein submitted as a Director's Discretionary proposal for four orbits.

OBSERVING DESCRIPTION

Scheduling constraints require that these visits be completed by December 7, 2011. The purpose of these observations is to obtain four spectra of groups of circumstellar knots in the vicinity of recurrent nova T Pyx, currently in outburst at about magnitude V = 12 (no longer at V = 8). These slits need to be placed within 0.1 arcsec to be maximally effective. Each visit contains an ACQ with the 50CCD, then a ACQ/PEAK with the 52X0.1 aperture using MIRROR. Once T Pyx is peaked, the telescope is then offset with a POS TARG North or South (up to 5.3 arcsec) to place the knots in the aperture 52X2 and observe with G750L followed by G430L. Exposures are split into 375s, 375s and 80s, with the latter as a hedge against overexposure. At the end of visibility is a fringe flat for G750L.

REAL TIME JUSTIFICATION

N/A

ADDITIONAL COMMENTS

None.

Visit

Proposal 12448, Visit 01, withdrawn Thu Jan 17 02:06:54 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 113.2D TO 113.2 D; BEFORE 01-JUN-2011

Comments: The Visit Planner indicates that Visit 01 can be scheduled until May 28, 2011. POS TARG puts the slit 4.675 arcsec North of T Pyx.

Diagnostics

(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

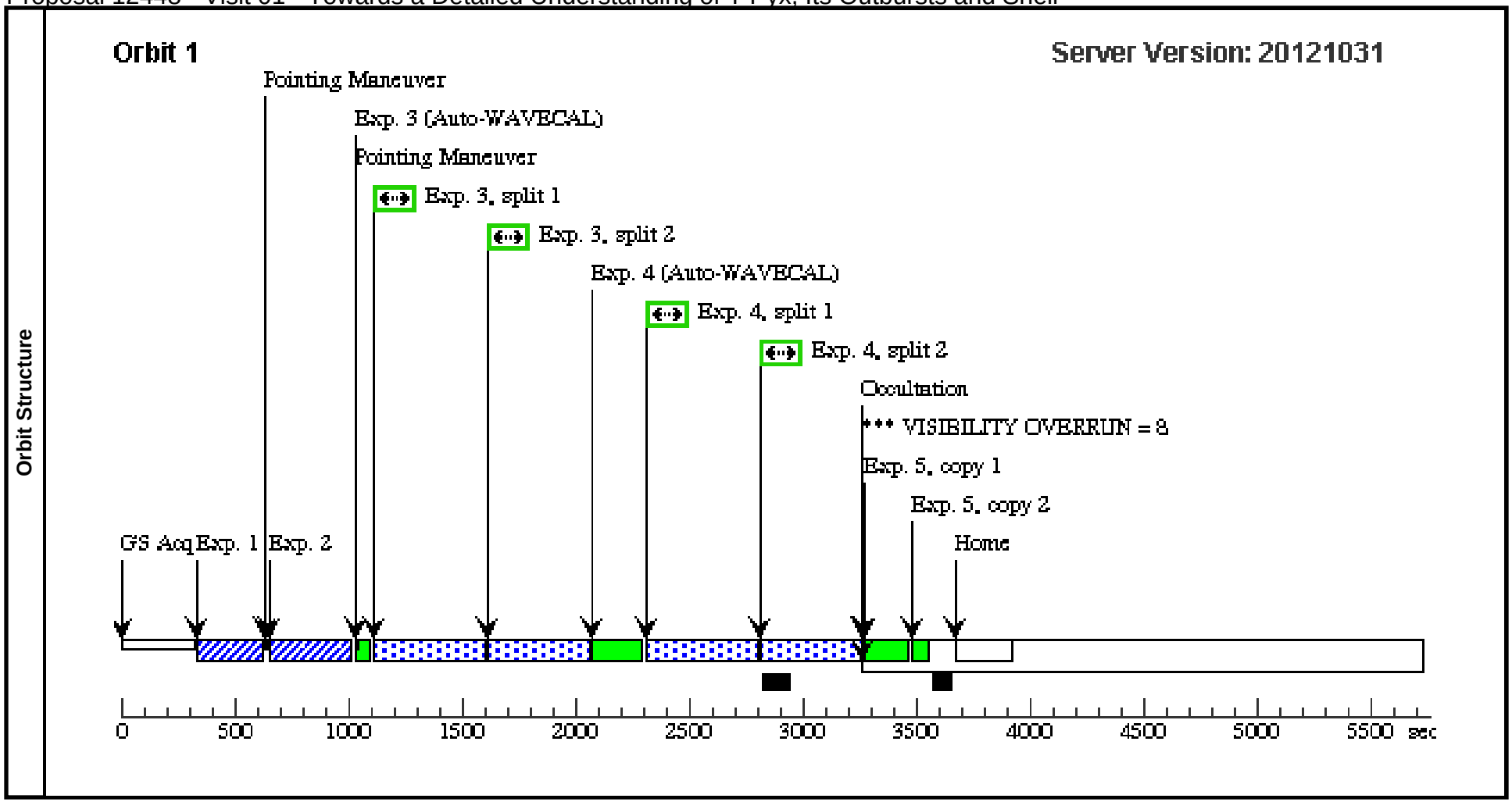
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	TPyx-ACQ	(1) T-PYX	STIS/CCD, ACQ, F25ND5	MIRROR				0.1 Secs *[==>]*	***[1]***
2	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	G750L 7751 A				6 Secs *[==>]*	***[1]***
3	SLIT1.1-F750L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=2	POS TARG -4.341,0		820 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
4	SLIT1.1-F430L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=2	POS TARG -4.341,null		820 Secs *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
5	FRINGE FLAT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20121031
Pointing Maneuver
Exp. 3 (Auto-WAVECAL)
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 4 (Auto-WAVECAL)
Exp. 4, split 1
Exp. 4, split 2
Occultation
*** VISIBILITY OVERRUN = 8
Exp. 5, copy 1
Exp. 5, copy 2
Home
GS Acq
Exp. 1
Exp. 2
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12448, Visit 02, completed Thu Jan 17 02:06:56 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 106.4D TO 106.4 D; BEFORE 01-JUN-2011

Comments: The Visit Planner indicates that Visit 01 can be scheduled until May 23, 2011. POS TARG puts the slit 1.400 arcsec North of T Pyx.

Diagnostics

(Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

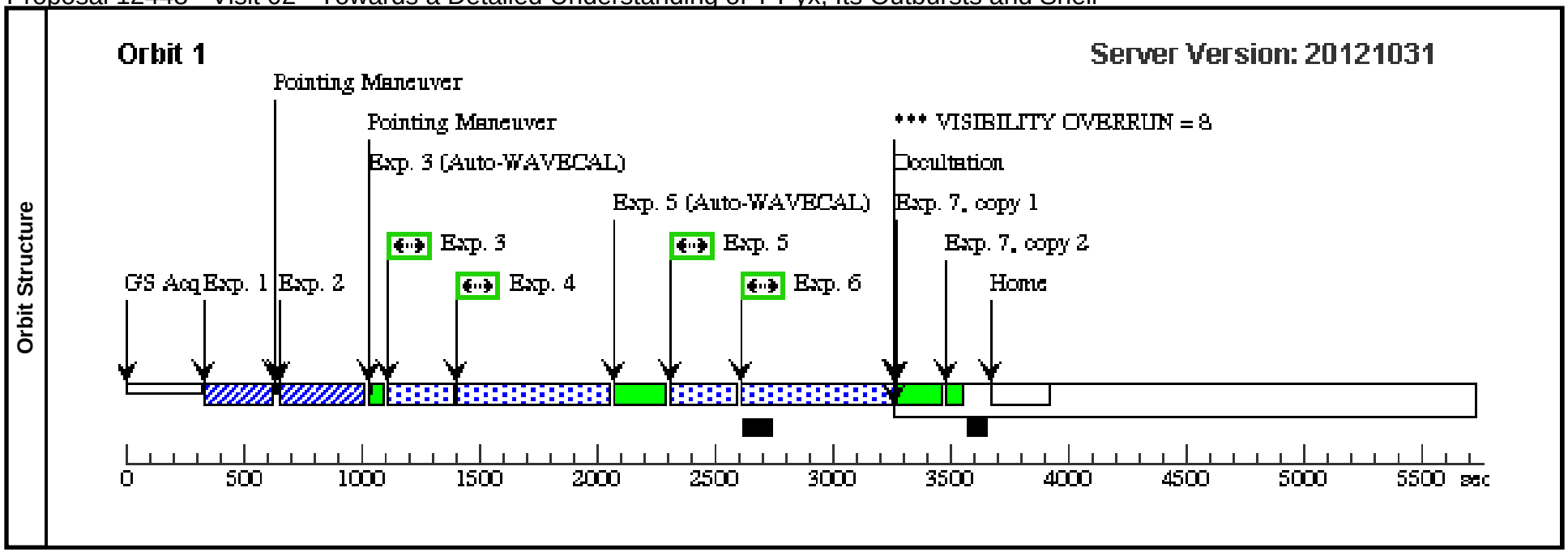
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	TPyx-ACQ	(1) T-PYX	STIS/CCD, ACQ, F25ND5	MIRROR				0.1 Secs *[==>]*	***[1]***
2	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	G750L 7751 A				6 Secs *[==>]*	***[1]***
3	SLIT1.1-F7 50L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO	POS TARG -1.229,0		205 Secs *[==>]*	***[1]***
4	SLIT1.1-F7 50L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO	POS TARG -1.229,0		615 Secs *[==>]*	***[1]***
5	SLIT1.1-F4 30L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO	POS TARG -1.229,0		205 Secs *[==>]*	***[1]***
6	SLIT1.1-F4 30L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO	POS TARG -1.229,0		615 Secs *[==>]*	***[1]***
7	FRINGE FL AT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20121031
Pointing Maneuver
Pointing Maneuver
Exp. 3 (Auto-WAVECAL)
*** VISIBILITY OVERRUN = 8
Occultation
Exp. 5 (Auto-WAVECAL)
Exp. 7, copy 1
Exp. 3
Exp. 5
Exp. 7, copy 2
GS Acq
Exp. 1
Exp. 2
Exp. 4
Exp. 6
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12448, Visit 03, completed Thu Jan 17 02:06:58 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 102.9D TO 102.9 D; BEFORE 01-JUN-2011

Comments: The Visit Planner indicates that Visit 01 can be scheduled until May 23, 2011. POS TARG puts the slit 1.538 arcsec South of T Pyx.

Diagnostics

(Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

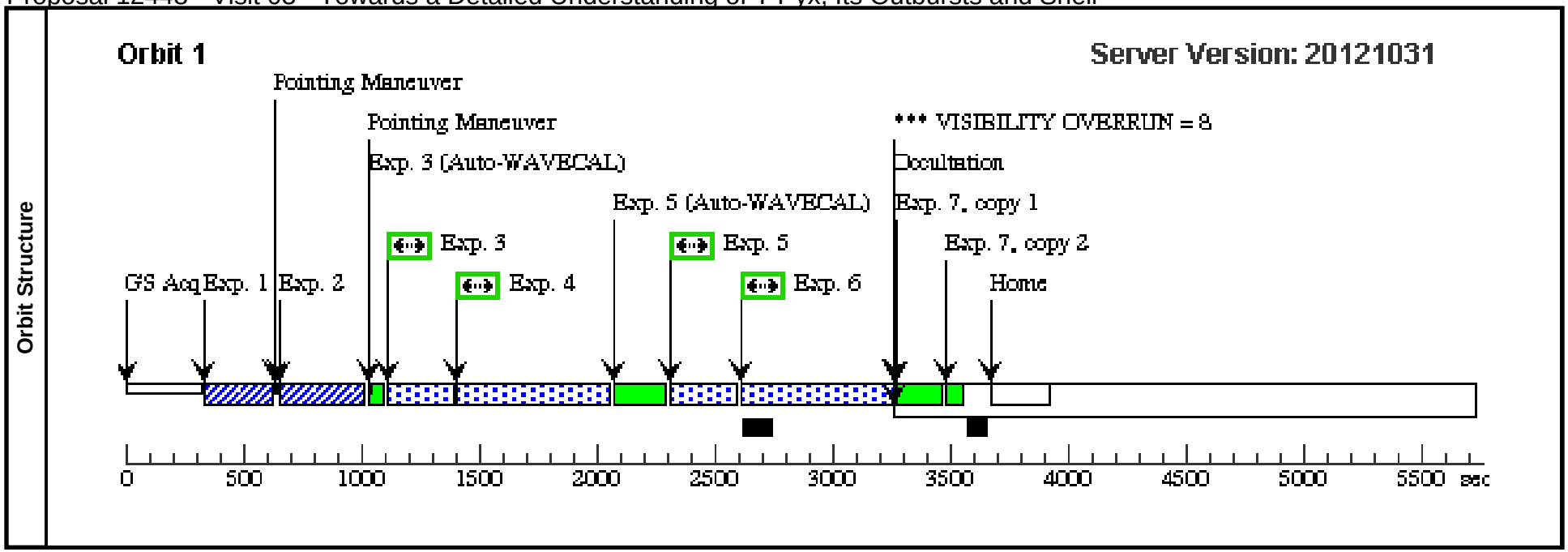
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	TPyx-ACQ	(1) T-PYX	STIS/CCD, ACQ, F25ND5	MIRROR				0.1 Secs *[==>]*	***[1]***
2	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	G750L 7751 A				6 Secs *[==>]*	***[1]***
3	SLIT1.1-F7 50L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO	POS TARG 1.303,0		205 Secs *[==>]*	***[1]***
4	SLIT1.1-F7 50L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=NO	POS TARG 1.303,0		615 Secs *[==>]*	***[1]***
5	SLIT1.1-F4 30L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO	POS TARG 1.303,0		205 Secs *[==>]*	***[1]***
6	SLIT1.1-F4 30L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO	POS TARG 1.303,0		615 Secs *[==>]*	***[1]***
7	FRINGE FL AT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20121031
Pointing Maneuver
Pointing Maneuver
Exp. 3 (Auto-WAVECAL)
*** VISIBILITY OVERRUN = 8
Occultation
Exp. 5 (Auto-WAVECAL)
Exp. 7, copy 1
Exp. 3
Exp. 5
Exp. 7, copy 2
GS Acq
Exp. 1
Exp. 2
Exp. 4
Exp. 6
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12448, Visit 04, completed Thu Jan 17 02:07:00 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 98.0D TO 98.0 D; BEFORE 01-JUN-2011

Comments: The Visit Planner indicates that Visit 01 can be scheduled until May 23, 2011. POS TARG puts the slit 4.575 arcsec South of T Pyx.

Diagnostics

(Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 04) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

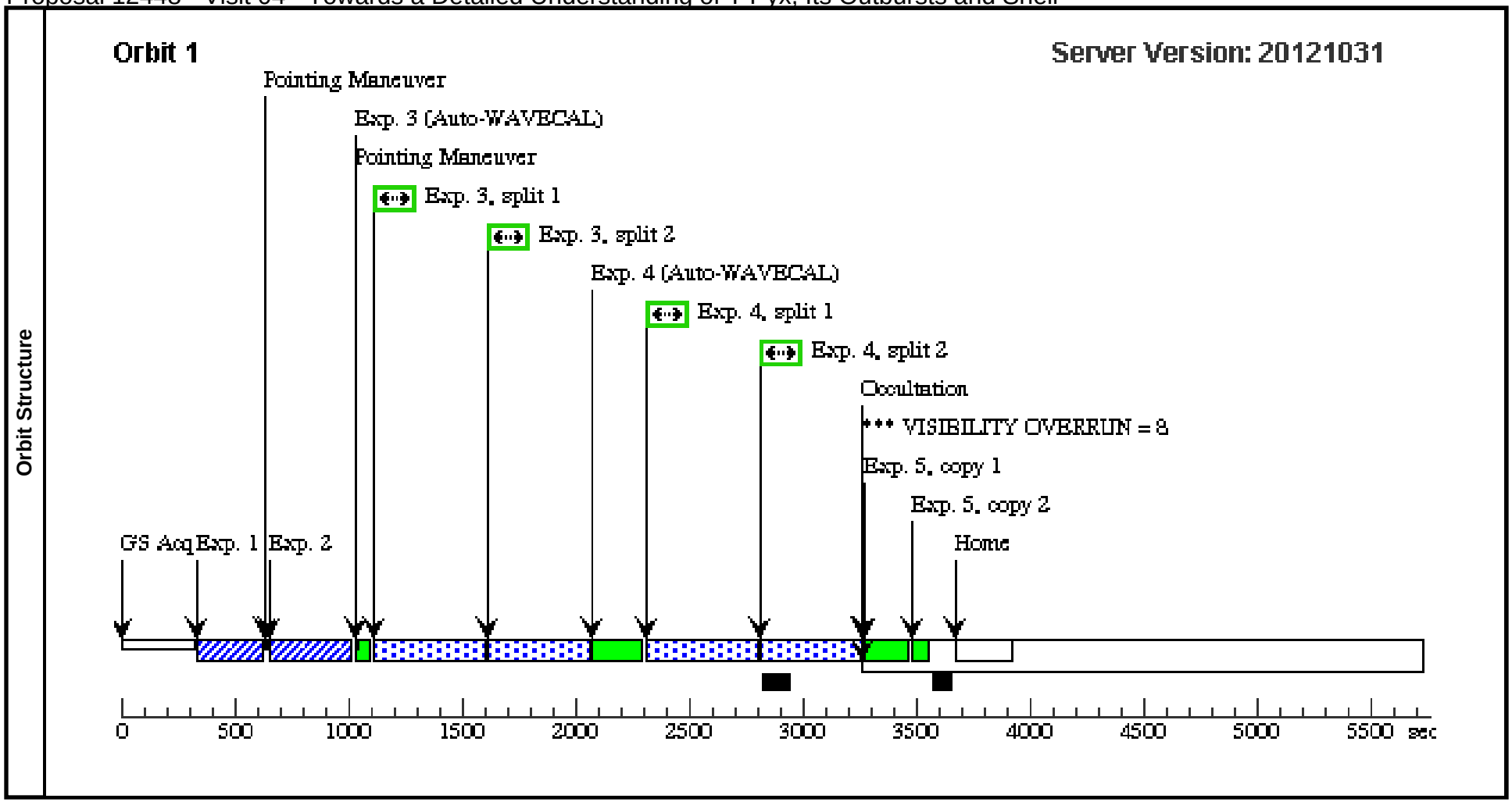
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	TPyx-ACQ	(1) T-PYX	STIS/CCD, ACQ, F25ND5	MIRROR				0.1 Secs *[==>]*	*[1]*
2	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	G750L 7751 A				6 Secs *[==>]*	*[1]*
3	SLIT1.1-F7 50L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=2	POS TARG 3.654,0		820 Secs *[==>(Split 1)]* *[==>(Split 2)]*	*[1]*
4	SLIT1.1-F4 30L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=2	POS TARG 3.654,0		820 Secs *[==>(Split 1)]* *[==>(Split 2)]*	*[1]*
5	FRINGE FL AT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20121031
Pointing Maneuver
Exp. 3 (Auto-WAVECAL)
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 4 (Auto-WAVECAL)
Exp. 4, split 1
Exp. 4, split 2
Occultation
*** VISIBILITY OVERRUN = 8
Exp. 5, copy 1
Exp. 5, copy 2
Home
GS Acq
Exp. 1
Exp. 2
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12448, Visit 11, completed Thu Jan 17 02:07:02 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 113.2D TO 113.2 D; BEFORE 01-JUN-2011

Comments: The Visit Planner indicates that Visit 01 can be scheduled until May 28, 2011. POS TARG puts the slit 4.675 arcsec North of T Pyx.

Copy of visit 01 with slight change to ACQ exposure.

Diagnostics

(Visit 11) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 11) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 11) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 11) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 11) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

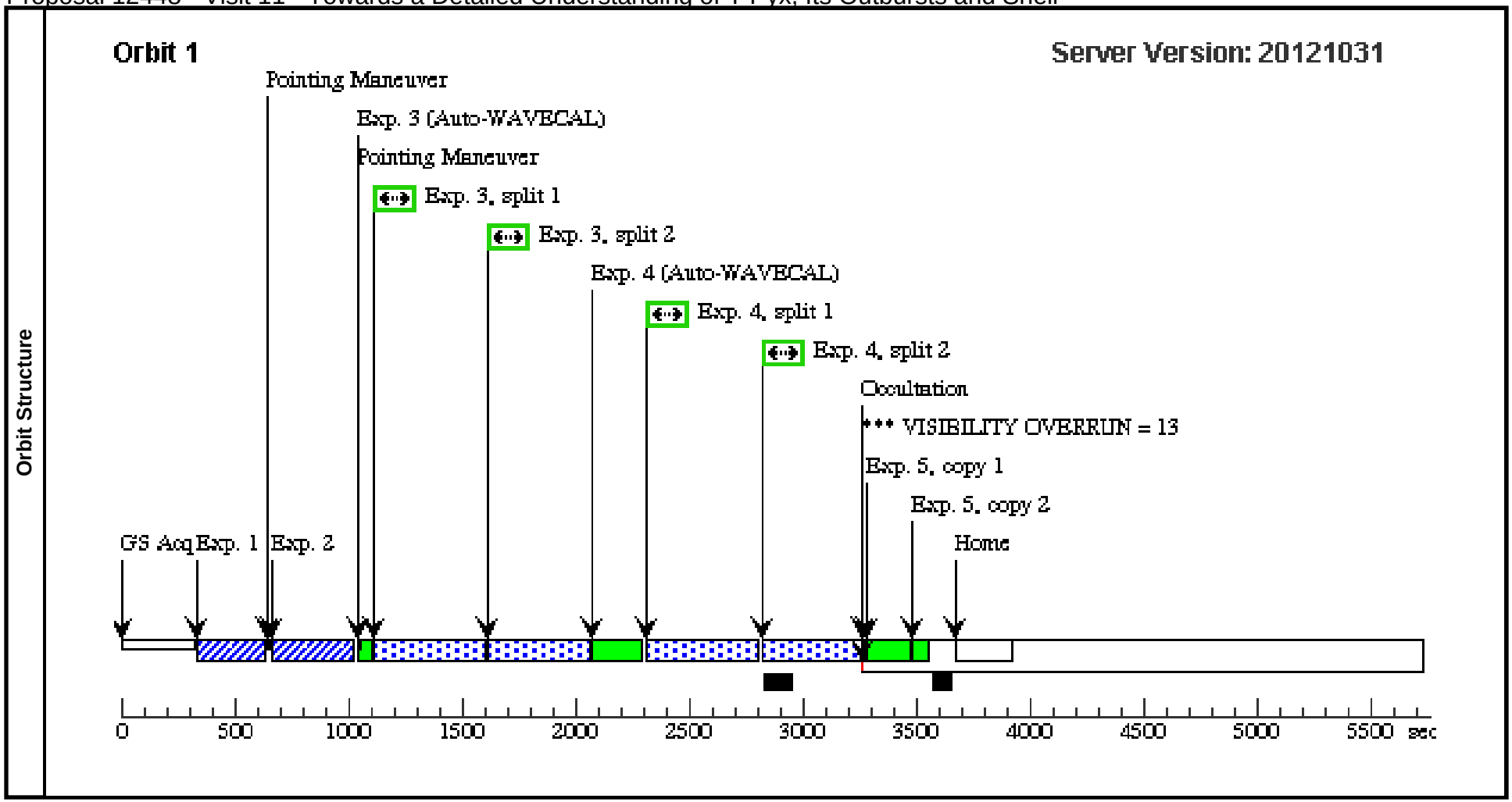
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	TPyx-ACQ	(1) T-PYX	STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs *[==>]*	*[1]*
2	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	G750L 7751 A				6 Secs *[==>]*	*[1]*
3	SLIT1.1-F7 50L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=2	POS TARG -4.341,0		820 Secs *[==>(Split 1)]* *[==>(Split 2)]*	*[1]*
4	SLIT1.1-F4 30L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=2	POS TARG -4.341,n ull		820 Secs *[==>(Split 1)]* *[==>(Split 2)]*	*[1]*
5	FRINGE FL AT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20121031
Pointing Maneuver
Exp. 3 (Auto-WAVECAL)
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 4 (Auto-WAVECAL)
Exp. 4, split 1
Exp. 4, split 2
Occultation
*** VISIBILITY OVERRUN = 13
Exp. 5, copy 1
Exp. 5, copy 2
Home
GS Acq
Exp. 1
Exp. 2
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 12448 - Visit 12 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Visit

Proposal 12448, Visit 12, completed Thu Jan 17 02:07:04 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BEFORE 10-JUL-2011

Comments: This proposal is submitted solely for the execution of Visit 12, which should be executed by July 9, 2011 and consists of one orbit. It is composed of three pairs of exposures in FQ422M, F547M and F225W, with each pair of exposures consisting of a short exposure and one three times longer. The total times in each band are 300, 500 and 1197s, respectively.

Diagnostics

(Visit 12) Warning (Orbit Planner): VISIBILITY OVERRUN

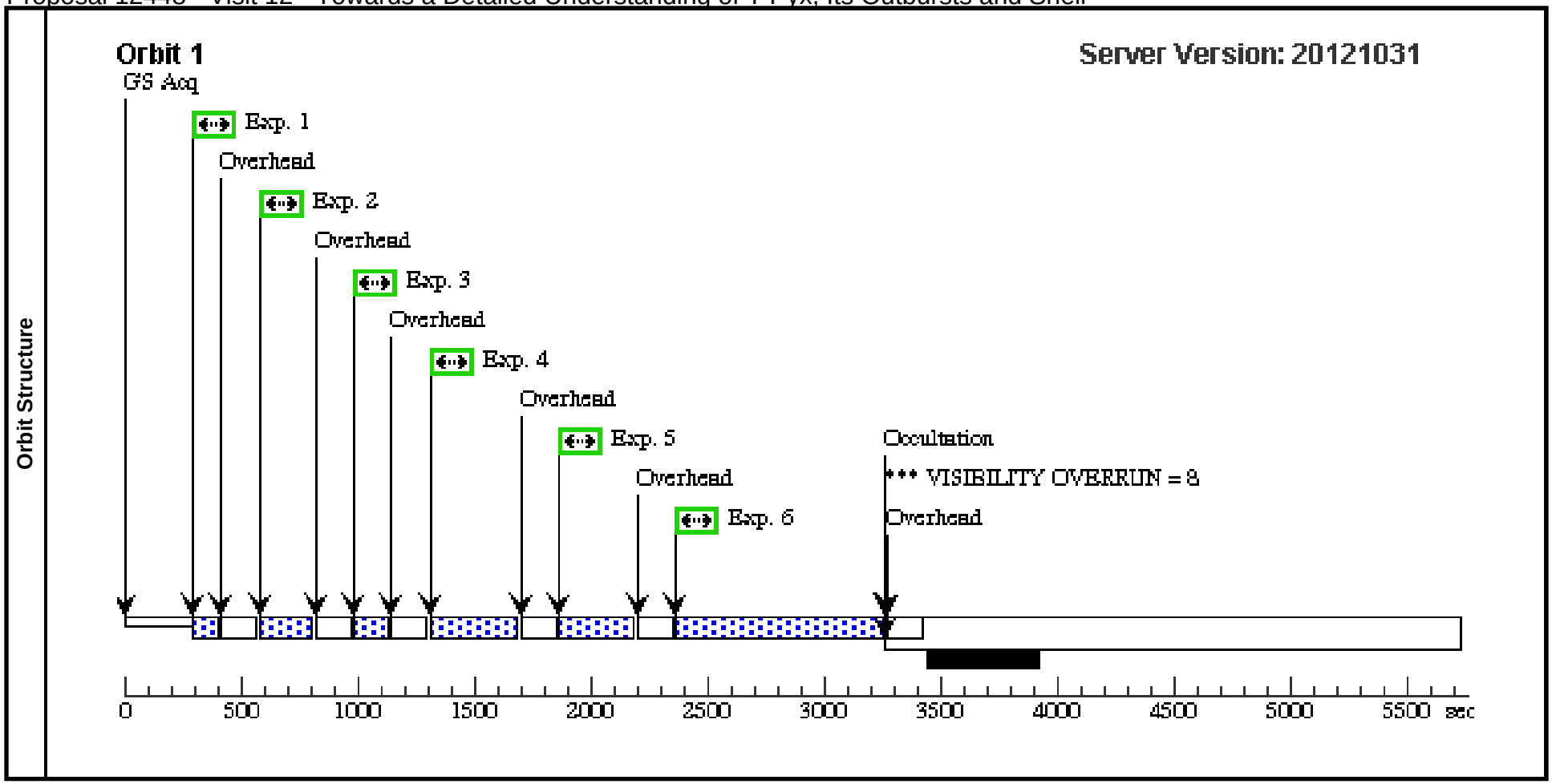
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	FQ422M-SHORT	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				75 Secs *[==>]*	*[1]*
2	FQ422M-LONG	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				225 Secs *[==>]*	*[1]*
3	F547M-SHORT	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				125 Secs *[==>]*	*[1]*
4	F547M-LONG	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				375 Secs *[==>]*	*[1]*
5	F225W-SHORT	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F225W				300 Secs *[==>]*	*[1]*
6	F225W-LONG	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F225W				897 Secs *[==>]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20121031
GS Acq
Exp. 1
Overhead
Exp. 2
Overhead
Exp. 3
Overhead
Exp. 4
Overhead
Exp. 5
Overhead
Exp. 6
Occultation
*** VISIBILITY OVERRUN = 8
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 12448 - Visit 13 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Visit

Proposal 12448, Visit 13, completed Thu Jan 17 02:07:05 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BEFORE 25-SEP-2011:00:00:00

Comments: This version (Sep. 8, 2011) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visit 13, which consists of one orbit and should be executed as soon as possible and hopefully by September 24, 2011. It is composed of four pairs of WFC3/UVIS exposures in FQ422M, F547M, F225W and F600LP, with each pair consisting of a short exposure and one three times longer. The total exposure times in each band are 300, 500, 800 and 40s, respectively.

Diagnostics

(Visit 13) Warning (Orbit Planner): VISIBILITY OVERRUN

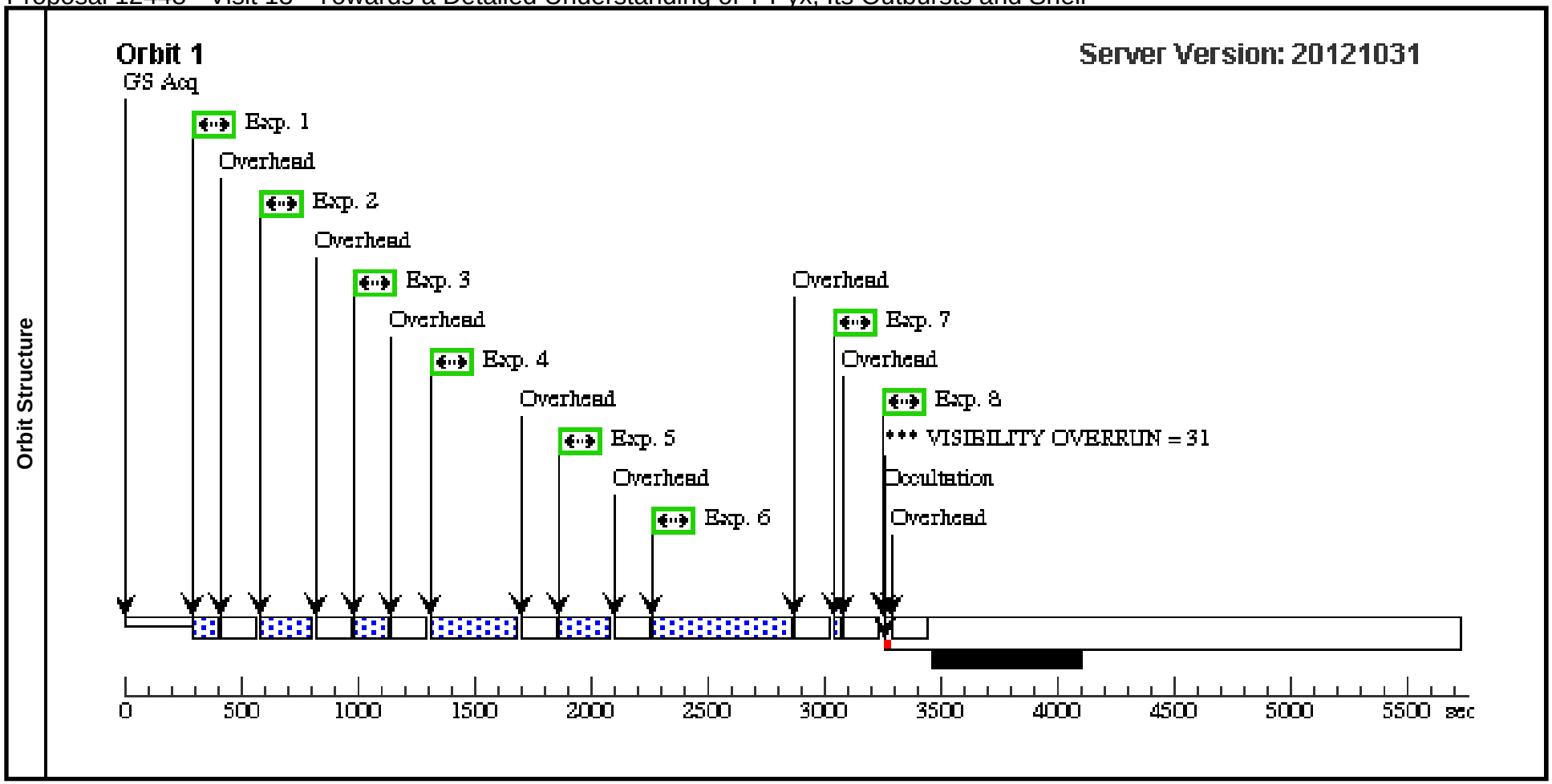
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	fq422m-short	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				75 Secs *[==>]*	*[1]*
2	fq422m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				225 Secs *[==>]*	*[1]*
3	f547m-short	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				125 Secs *[==>]*	*[1]*
4	f547m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				375 Secs *[==>]*	*[1]*
5	f225w-short	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F225W				200 Secs *[==>]*	*[1]*
6	f225w-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F225W				600 Secs *[==>]*	*[1]*
7	f600lp-short	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F600LP				10 Secs *[==>]*	*[1]*
8	f600lp-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F600LP				30 Secs *[==>]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20121031
GS Acq
Exp. 1
Overhead
Exp. 2
Overhead
Exp. 3
Overhead
Exp. 4
Overhead
Exp. 5
Overhead
Exp. 6
Overhead
Exp. 7
Overhead
Exp. 8
*** VISIBILITY OVERRUN = 31
Occultation
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12448, Visit 14, withdrawn Thu Jan 17 02:07:06 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 24-SEP-2011:00:00:00 AND 27-SEP-2011:00:00:00

Comments: This version (Sep. 15, 2011) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visit 14, which consists of one orbit and should be executed between September 24 & 26, 2011. It is composed of four pairs of WFC3/UVIS exposures in FQ422M, F547M, F225W and F600LP, with each pair consisting of a short exposure and one three times longer. The total exposure times in each band are 300, 500, 800 and 40s, respectively.

Diagnostics

(Visit 14) Warning (Orbit Planner): VISIBILITY OVERRUN

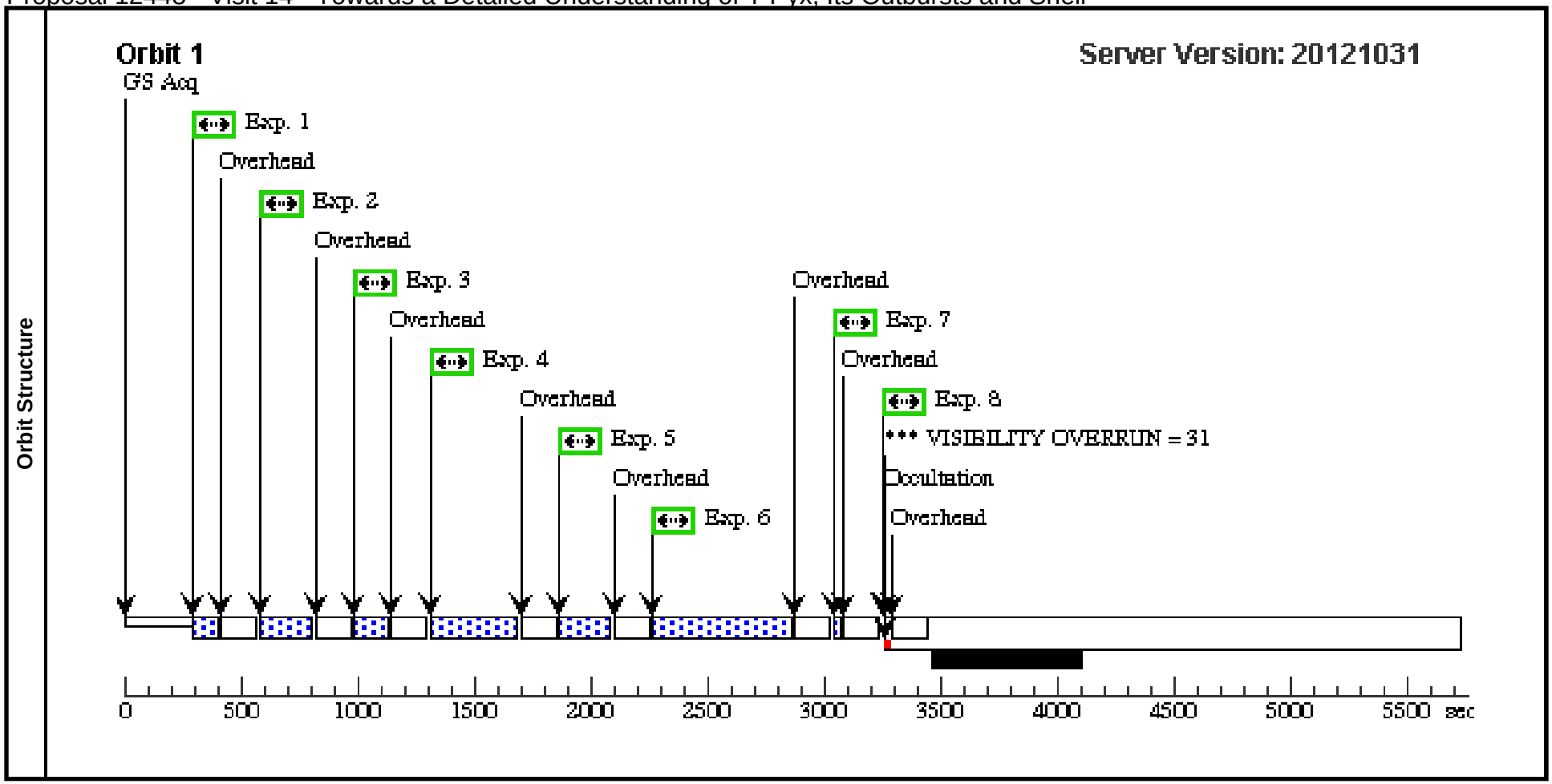
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	fq422m-short	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				75 Secs *[==>]*	*[1]*
2	fq422m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				225 Secs *[==>]*	*[1]*
3	f547m-short	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				125 Secs *[==>]*	*[1]*
4	f547m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				375 Secs *[==>]*	*[1]*
5	f225w-short	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F225W				200 Secs *[==>]*	*[1]*
6	f225w-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F225W				600 Secs *[==>]*	*[1]*
7	f600lp-short	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F600LP				10 Secs *[==>]*	*[1]*
8	f600lp-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F600LP				30 Secs *[==>]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20121031
GS Acq
Exp. 1
Overhead
Exp. 2
Overhead
Exp. 3
Overhead
Exp. 4
Overhead
Exp. 5
Overhead
Exp. 6
Overhead
Exp. 7
Overhead
Exp. 8
*** VISIBILITY OVERRUN = 31
Occultation
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 12448 - Visit 15 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Visit

Proposal 12448, Visit 15, completed Thu Jan 17 02:07:07 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 24-SEP-2011:00:00:00 AND 29-SEP-2011:00:00:00

Comments: This version (Sep. 21, 2011) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visit 15, which consists of one orbit and should be executed between September 24 & 28, 2011, AND EXECUTED INSTEAD OF VISIT 14!!!. It is composed of two triplets of WFC3/UVIS exposures in FQ422M and F547M, with each triplet consisting three exposures of equal duration. The total exposure times in each band are 1125 and 900 seconds, respectively.

Diagnostics

(Visit 15) Warning (Orbit Planner): VISIBILITY OVERRUN

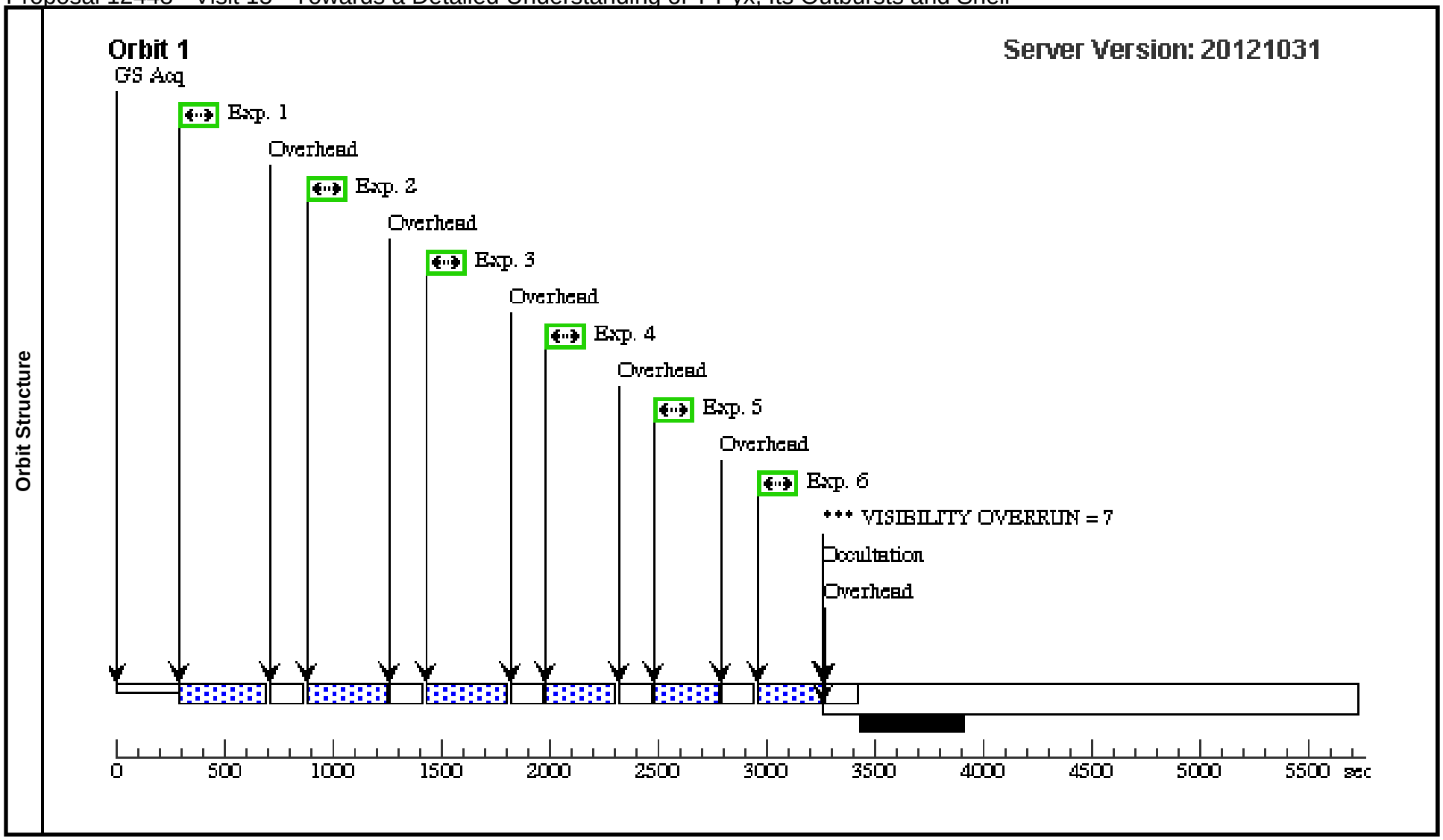
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	fq422m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				375 Secs *[==>]*	*[1]*
2	fq422m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				375 Secs *[==>]*	*[1]*
3	fq422m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				375 Secs *[==>]*	*[1]*
4	f547m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				300 Secs *[==>]*	*[1]*
5	f547m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				300 Secs *[==>]*	*[1]*
6	f547m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				300 Secs *[==>]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20121031
GS Acq
Exp. 1
Overhead
Exp. 2
Overhead
Exp. 3
Overhead
Exp. 4
Overhead
Exp. 5
Overhead
Exp. 6
*** VISIBILITY OVERRUN = 7
Occultation
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 12448 - Visit 16 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Visit

Proposal 12448, Visit 16, completed Thu Jan 17 02:07:08 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 16-NOV-2011:00:00:00 AND 20-NOV-2011:00:00:00

Comments: This version (Nov. 2, 2011) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visits 16 & 17, which consists of one orbit per visit and should be executed between November 16 & 20, 2011 for Visit 16 and between November 23 & 27 for Visit 17. Visit 16 is composed of two triplets of WFC3/UVIS exposures in FQ422M and F547M, with each triplet consisting of exposures of equal duration. The total exposure times in each band are 1125 and 900 seconds, respectively. Visit 17 is composed of four pairs of exposures with WFC3/UVIS in FQ422M, F547M, F225W and F600LP, with each pair consisting of a short exposure and one three times longer. The total exposure times in each band are 300, 500, 800 and 40s, respectively.

Diagnostics

(Visit 16) Warning (Orbit Planner): VISIBILITY OVERRUN

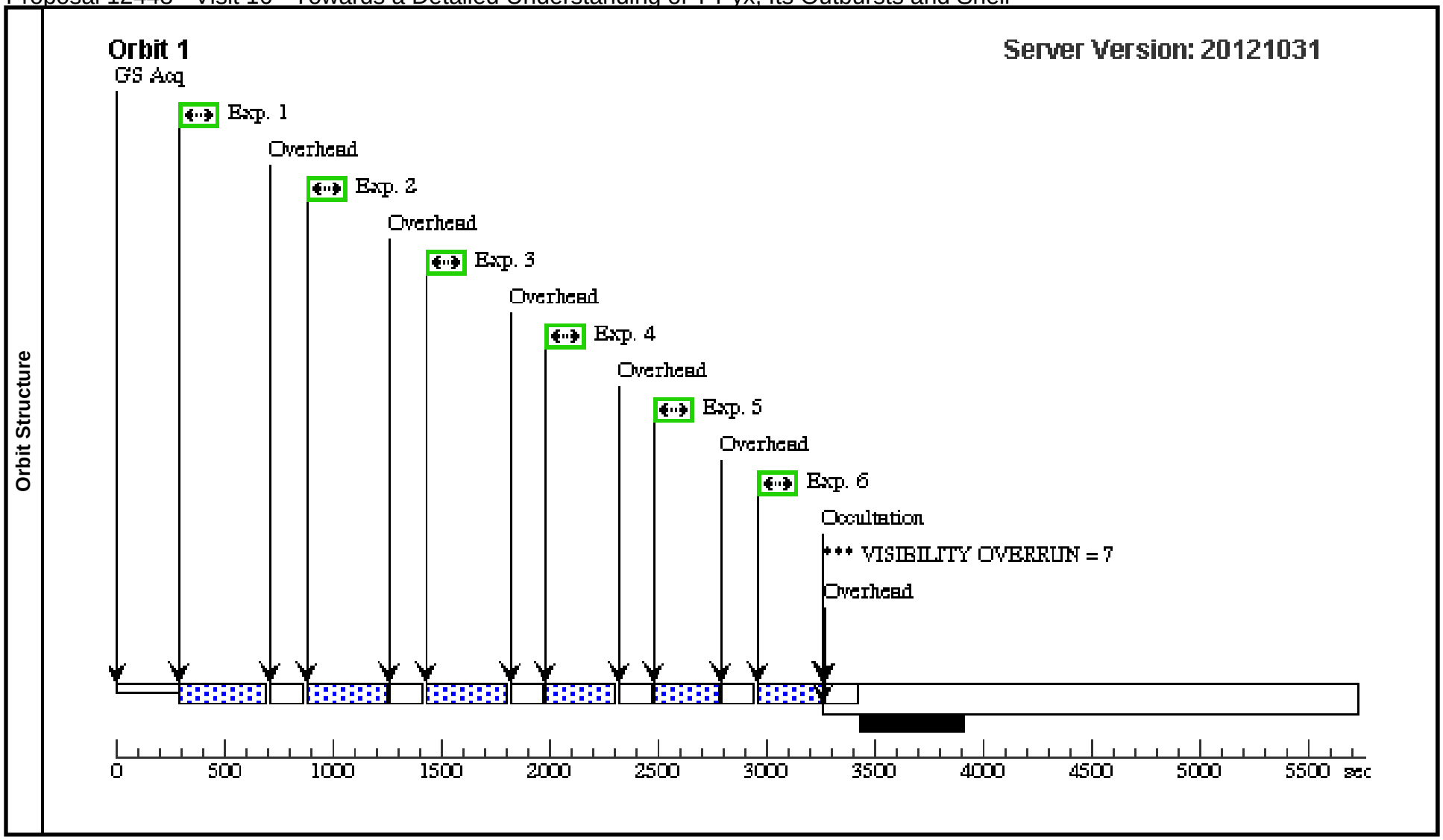
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	fq422m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				375 Secs *[==>]*	***[1]***
2	fq422m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				375 Secs *[==>]*	***[1]***
3	fq422m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				375 Secs *[==>]*	***[1]***
4	f547m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				300 Secs *[==>]*	***[1]***
5	f547m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				300 Secs *[==>]*	***[1]***
6	f547m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				300 Secs *[==>]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20121031
GS Acq
Exp. 1
Overhead
Exp. 2
Overhead
Exp. 3
Overhead
Exp. 4
Overhead
Exp. 5
Overhead
Exp. 6
Occultation
*** VISIBILITY OVERRUN = 7
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12448, Visit 17, completed Thu Jan 17 02:07:09 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 23-NOV-2011:00:00:00 AND 27-NOV-2011:00:00:00

Comments: This version (Nov. 2, 2011) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visits 16 & 17, which consists of one orbit per visit and should be executed between November 16 & 20, 2011 for Visit 16 and between November 23 & 27 for Visit 17. Visit 16 is composed of two triplets of WFC3/UVIS exposures in FQ422M and F547M, with each triplet consisting three exposures of equal duration. The total exposure times in each band are 1125 and 900 seconds, respectively. Visit 17 is composed of four pairs of exposures with WFC3/UVIS in FQ422M, F547M, F225W, with each pair consisting of a short exposure and one three times longer. The total exposure times in each band are 300, 500, 800 and 40s, respectively.

Diagnostics

(Visit 17) Warning (Orbit Planner): VISIBILITY OVERRUN

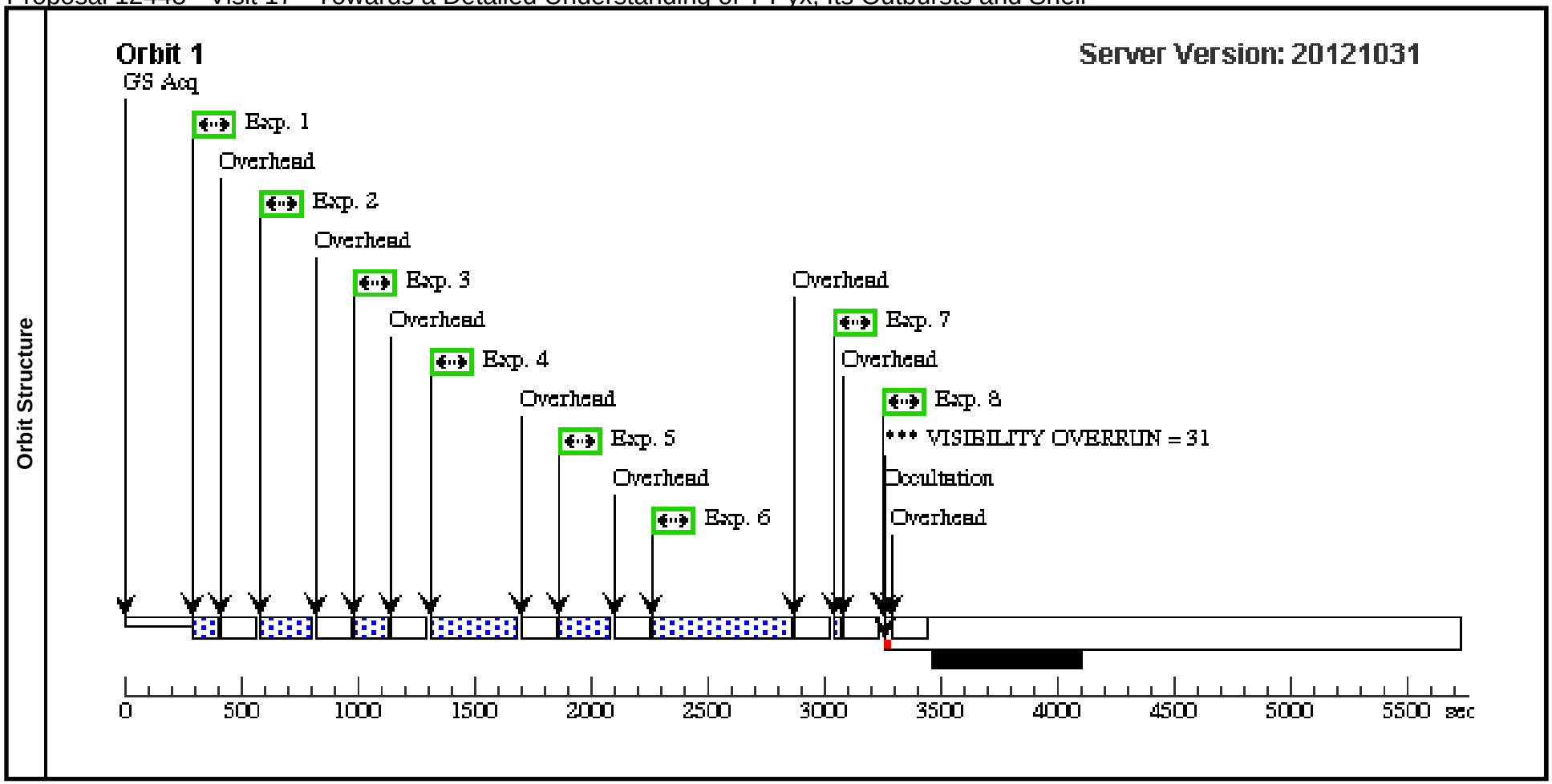
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	fq422m-short	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				75 Secs *[==>]*	*[1]*
2	fq422m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ422M				225 Secs *[==>]*	*[1]*
3	f547m-short	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				125 Secs *[==>]*	*[1]*
4	f547m-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				375 Secs *[==>]*	*[1]*
5	f225w-short	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F225W				200 Secs *[==>]*	*[1]*
6	f225w-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F225W				600 Secs *[==>]*	*[1]*
7	f600lp-short	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F600LP				10 Secs *[==>]*	*[1]*
8	f600lp-long	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F600LP				30 Secs *[==>]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20121031
GS Acq
Exp. 1
Overhead
Exp. 2
Overhead
Exp. 3
Overhead
Exp. 4
Overhead
Exp. 5
Overhead
Exp. 6
Overhead
Exp. 7
Overhead
Exp. 8
*** VISIBILITY OVERRUN = 31
Occultation
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12448, Visit 18, failed Thu Jan 17 02:07:10 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 01-DEC-2011:00:00:00 AND 03-DEC-2011:00:00:00

Comments: This version (Nov. 16, 2011) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visits 18, which consists of one orbit per visit and should be executed between December 1 & 3, 2011. Visit 18 is composed of a triplet of WFC3/UVIS 860s exposures in F547M.

Diagnostics

(Visit 18) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

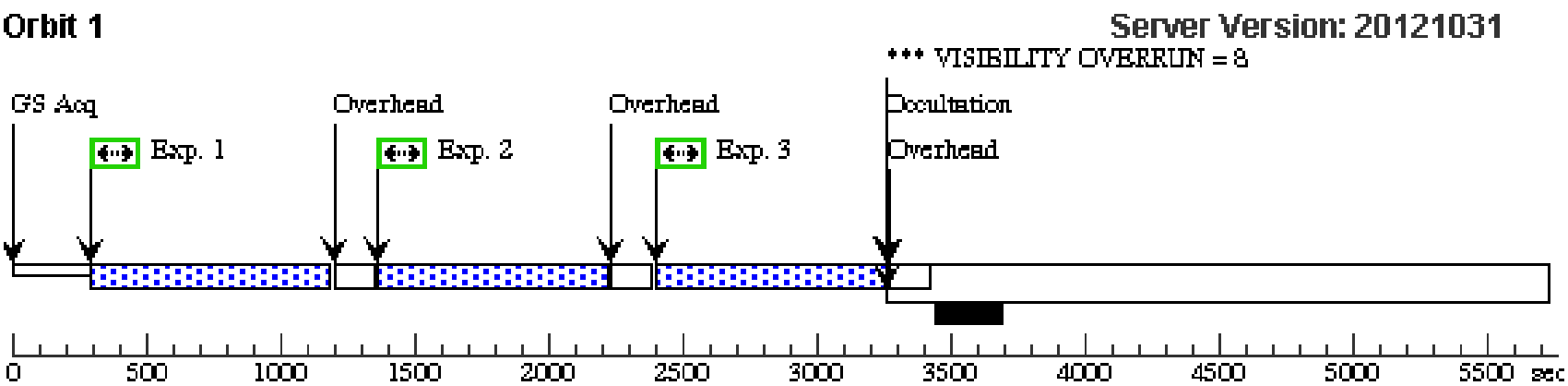
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	f547m-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				860 Secs *[==>]*	*[1]*
2	f547m-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				860 Secs *[==>]*	*[1]*
3	f547m-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				860 Secs *[==>]*	*[1]*

Orbit Structure



Proposal 12448 - Visit 19 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Visit

Proposal 12448, Visit 19, completed Thu Jan 17 02:07:11 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 294D TO 296 D; BETWEEN 01-DEC-2011:00:00:00 AND 07-DEC-2011:00:00:00

Comments: We need this visit scheduled before December 7, 2011. POS TARG puts the slit 4.2 arcsec North of T Pyx.

Diagnostics

(Visit 19) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 19) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 19) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 19) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

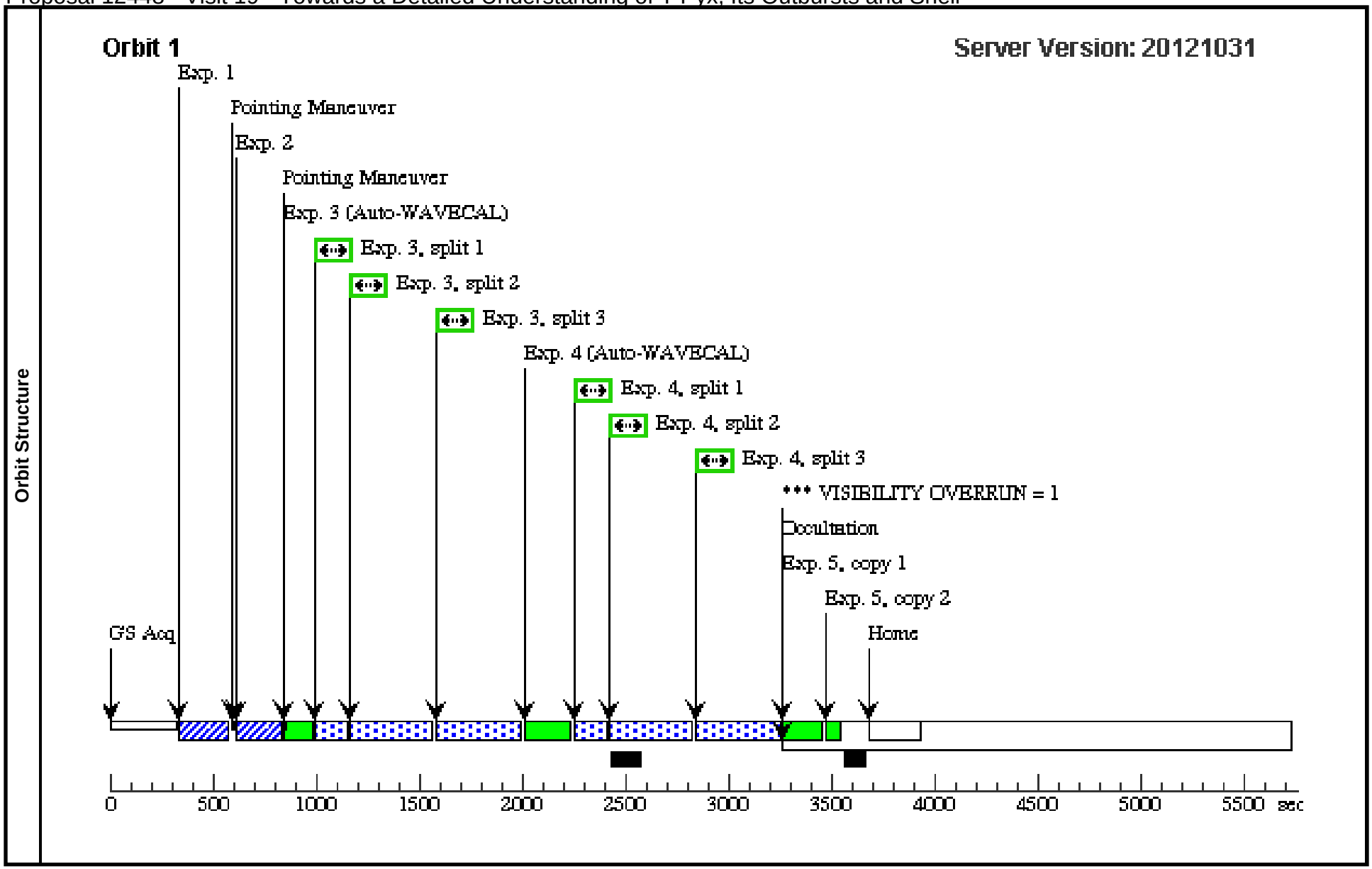
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	TPyx-ACQ	(1) T-PYX	STIS/CCD, ACQ, 50CCD	MIRROR				0.5 Secs *[==>]*	***[1]***
2	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				0.2 Secs *[==>]*	***[1]***
3	SLIT2.1-F750L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=3	POS TARG 4.5,0		770 Secs *[==>80.0 Secs (Split 1)]* *[==>375.0 Secs (Split 2)]* *[==>375.0 Secs (Split 3)]*	***[1]***
4	SLIT2.1-F430L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=3	SAME POS AS 3		780 Secs *[==>80.0 Secs (Split 1)]* *[==>375.0 Secs (Split 2)]* *[==>375.0 Secs (Split 3)]*	***[1]***
5	FRINGE FLAT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20121031
Exp. 1
Pointing Maneuver
Exp. 2
Pointing Maneuver
Exp. 3 (Auto-WAVECAL)
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
Exp. 4 (Auto-WAVECAL)
Exp. 4, split 1
Exp. 4, split 2
Exp. 4, split 3
*** VISIBILITY OVERRUN = 1
Occultation
Exp. 5, copy 1
Exp. 5, copy 2
Home
GS Acq
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 12448 - Visit 20 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Visit

Proposal 12448, Visit 20, completed Thu Jan 17 02:07:13 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 294D TO 296 D; BETWEEN 01-DEC-2011:00:00:00 AND 07-DEC-2011:00:00:00

Comments: We need this visit scheduled before December 7, 2011. POS TARG puts the slit 5.0 arcsec South of T Pyx.

Diagnostics

(Visit 20) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 20) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 20) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 20) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

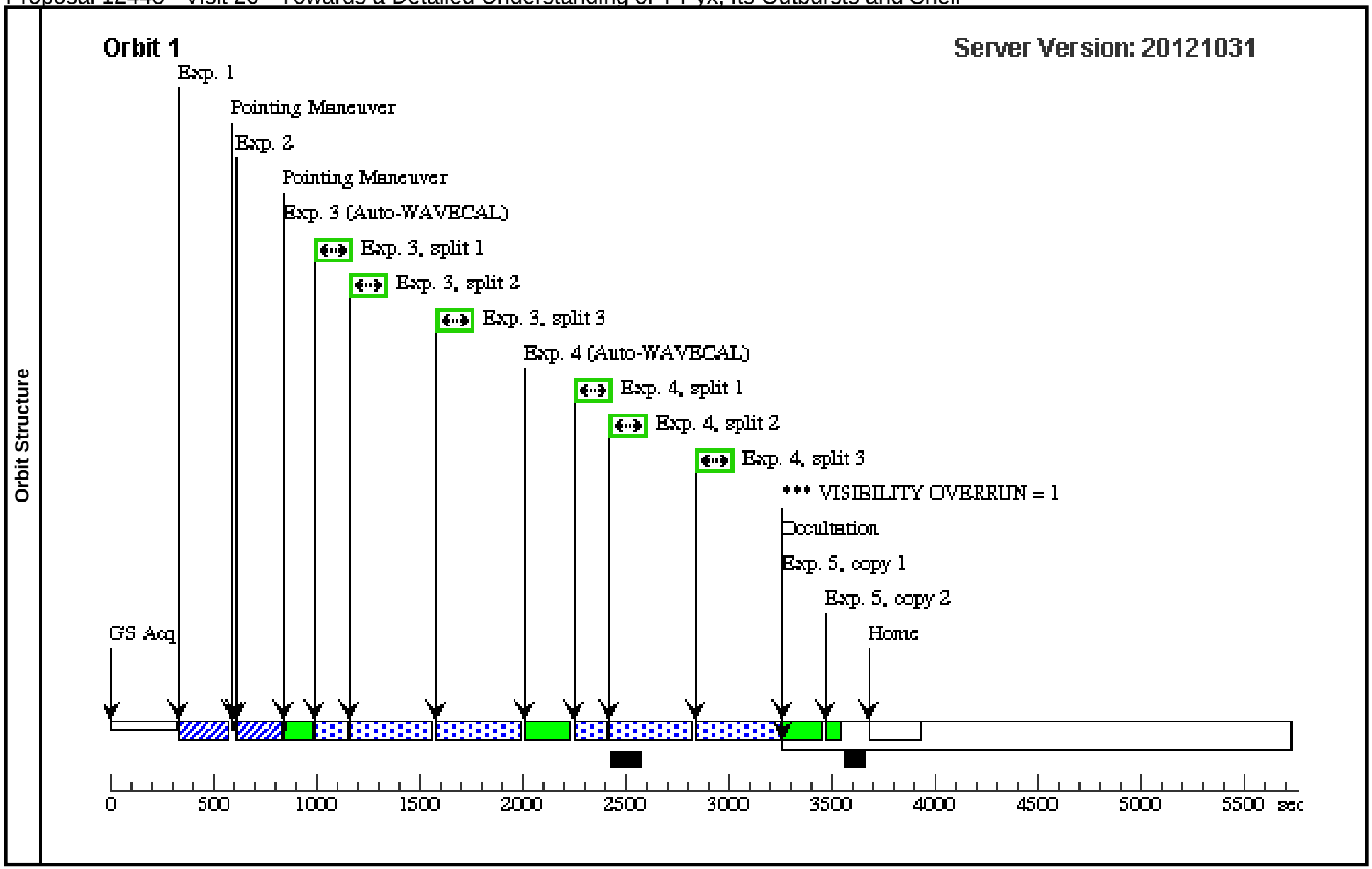
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	TPyx-ACQ	(1) T-PYX	STIS/CCD, ACQ, 50CCD	MIRROR				0.5 Secs *[==>]*	***[1]***
2	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				0.2 Secs *[==>]*	***[1]***
3	SLIT2.2-F750L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=3	POS TARG -5.3,0		770 Secs *[==>80.0 Secs (Split 1)]* *[==>375.0 Secs (Split 2)]* *[==>375.0 Secs (Split 3)]*	***[1]***
4	SLIT2.2-F430L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=3	SAME POS AS 3		780 Secs *[==>80.0 Secs (Split 1)]* *[==>375.0 Secs (Split 2)]* *[==>375.0 Secs (Split 3)]*	***[1]***
5	FRINGE FLAT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20121031
Exp. 1
Pointing Maneuver
Exp. 2
Pointing Maneuver
Exp. 3 (Auto-WAVECAL)
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
Exp. 4 (Auto-WAVECAL)
Exp. 4, split 1
Exp. 4, split 2
Exp. 4, split 3
*** VISIBILITY OVERRUN = 1
Occultation
Exp. 5, copy 1
Exp. 5, copy 2
Home
GS Acq
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12448, Visit 21, completed Thu Jan 17 02:07:14 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 284D TO 286 D; BETWEEN 01-DEC-2011:00:00:00 AND 07-DEC-2011:00:00:00

Comments: We need this visit scheduled before December 7, 2011. POS TARG puts the slit 1.7 arcsec North of T Pyx.

Diagnostics

(Visit 21) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 21) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 21) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 21) Warning (Orbit Planner): VISIBILITY OVERRUN

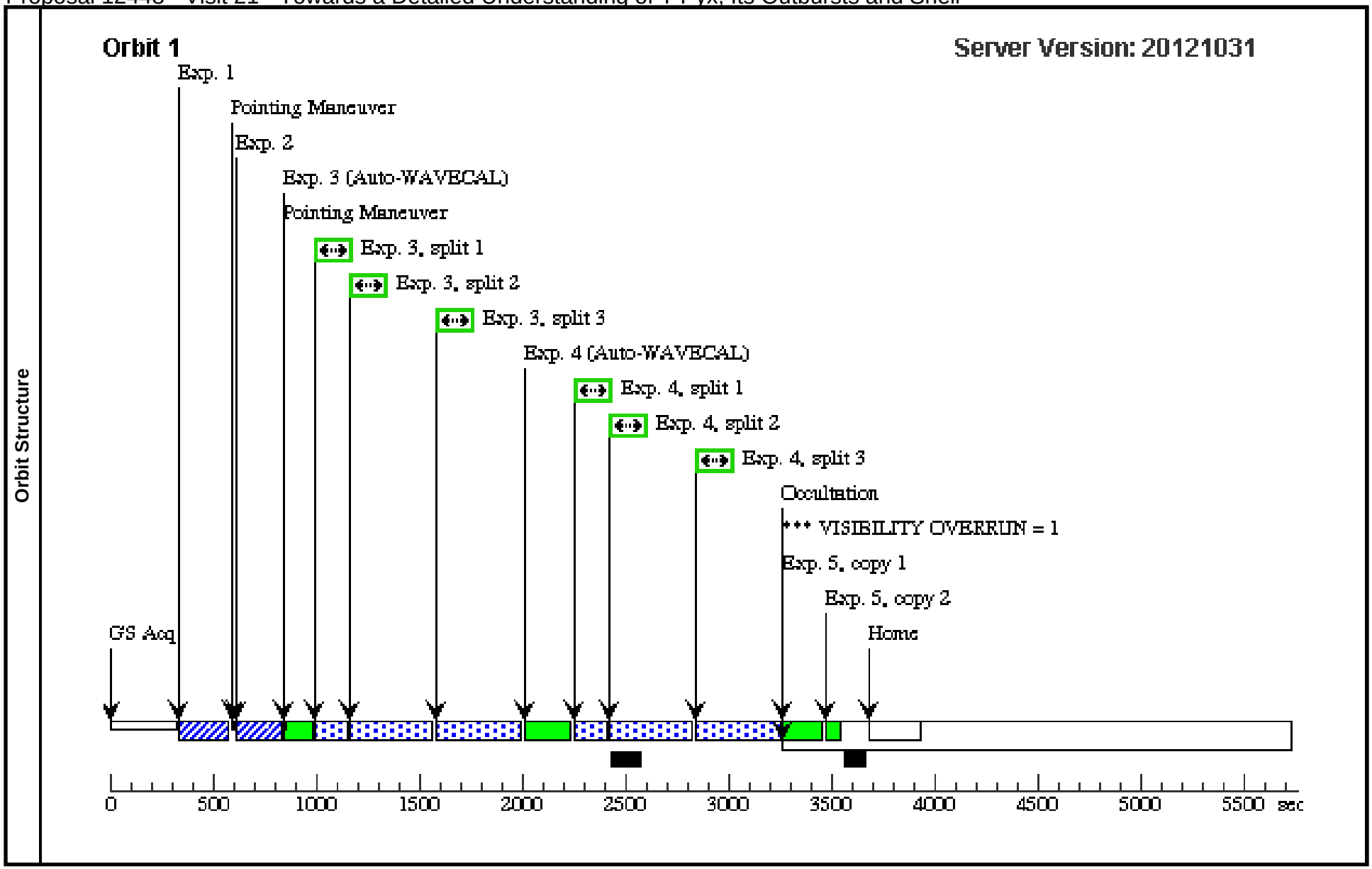
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	TPyx-ACQ	(1) T-PYX	STIS/CCD, ACQ, 50CCD	MIRROR				0.5 Secs *[==>]*	***[1]***
2	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				0.2 Secs *[==>]*	***[1]***
3	SLIT2.3-F750L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=3	POS TARG 2.0,0		770 Secs *[==>80.0 Secs (Split 1)]* *[==>375.0 Secs (Split 2)]* *[==>375.0 Secs (Split 3)]*	***[1]***
4	SLIT2.3-F430L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=3	SAME POS AS 3		780 Secs *[==>80.0 Secs (Split 1)]* *[==>375.0 Secs (Split 2)]* *[==>375 Secs (Split 3)]*	***[1]***
5	FRINGE FLAT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20121031
Exp. 1
Pointing Maneuver
Exp. 2
Exp. 3 (Auto-WAVECAL)
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
Exp. 4 (Auto-WAVECAL)
Exp. 4, split 1
Exp. 4, split 2
Exp. 4, split 3
Occultation
*** VISIBILITY OVERRUN = 1
Exp. 5, copy 1
Exp. 5, copy 2
Home
GS Acq
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 12448 - Visit 22 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Visit

Proposal 12448, Visit 22, completed Thu Jan 17 02:07:16 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 314D TO 316 D; BETWEEN 01-DEC-2011:00:00:00 AND 07-DEC-2011:00:00:00

Comments: We need this visit scheduled before December 7, 2011. POS TARG puts the slit 2.0 arcsec South of T Pyx.

Diagnostics

(Visit 22) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 22) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 22) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 22) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

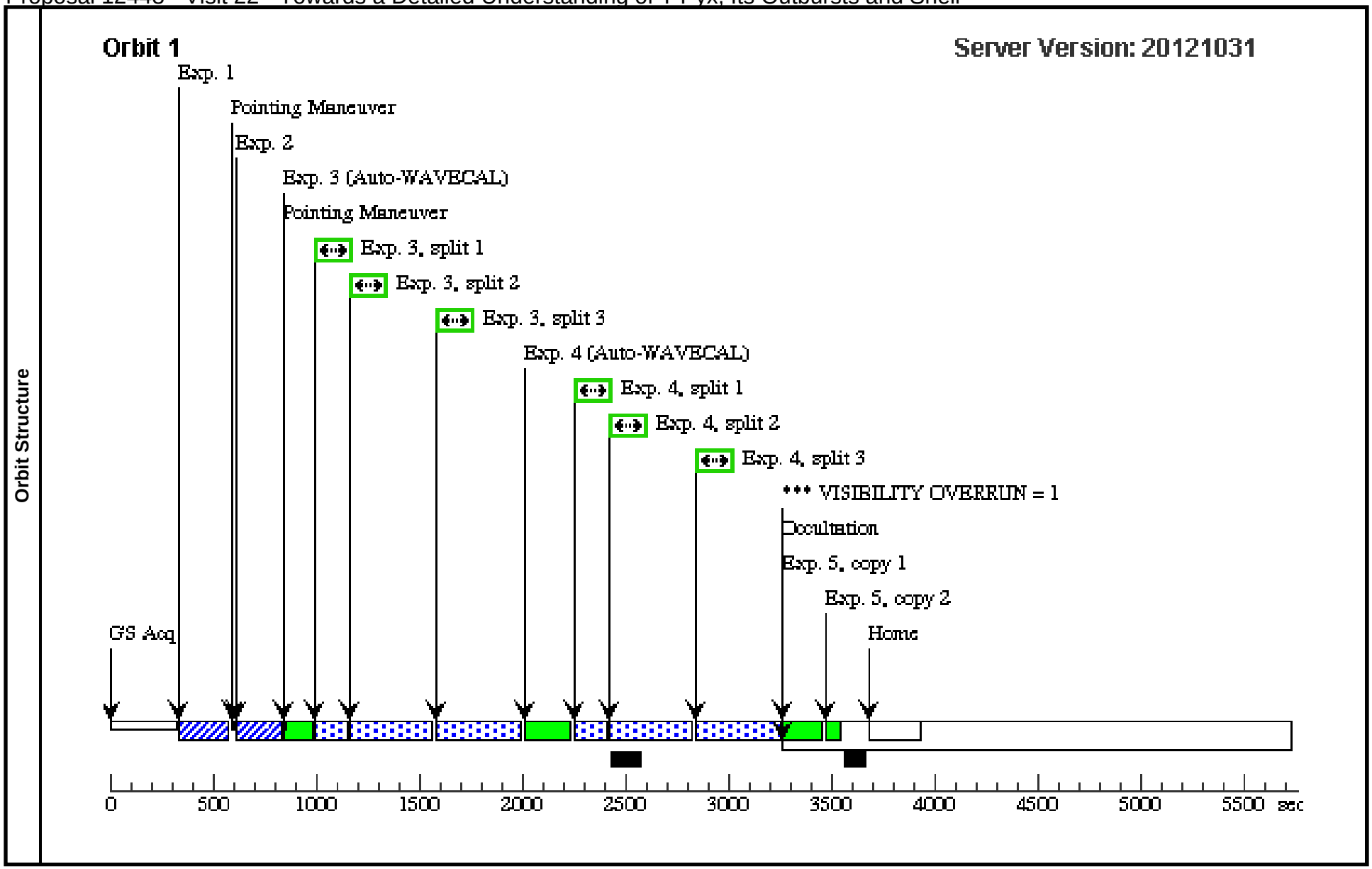
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	TPyx-ACQ	(1) T-PYX	STIS/CCD, ACQ, 50CCD	MIRROR				0.5 Secs *[==>]*	***[1]***
2	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				0.2 Secs *[==>]*	***[1]***
3	SLIT2.4-F750L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=3	POS TARG -2.0,0		770 Secs *[==>80.0 Secs (Split 1)]* *[==>375.0 Secs (Split 2)]* *[==>375.0 Secs (Split 3)]*	***[1]***
4	SLIT2.4-F430L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=3	SAME POS AS 3		780 Secs *[==>80.0 Secs (Split 1)]* *[==>375.0 Secs (Split 2)]* *[==>375.0 Secs (Split 3)]*	***[1]***
5	FRINGE FLAT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20121031
Exp. 1
Pointing Maneuver
Exp. 2
Exp. 3 (Auto-WAVECAL)
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
Exp. 4 (Auto-WAVECAL)
Exp. 4, split 1
Exp. 4, split 2
Exp. 4, split 3
*** VISIBILITY OVERRUN = 1
Occultation
Exp. 5, copy 1
Exp. 5, copy 2
Home
GS Acq
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 12448 - Visit 58 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Visit

Proposal 12448, Visit 58, completed Thu Jan 17 02:07:17 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: BETWEEN 2011.340 AND 2011.360; VISIBILITY INTERVAL 53 M

Comments: Repeat of failed visit 18.

Diagnostics

(Visit 58) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

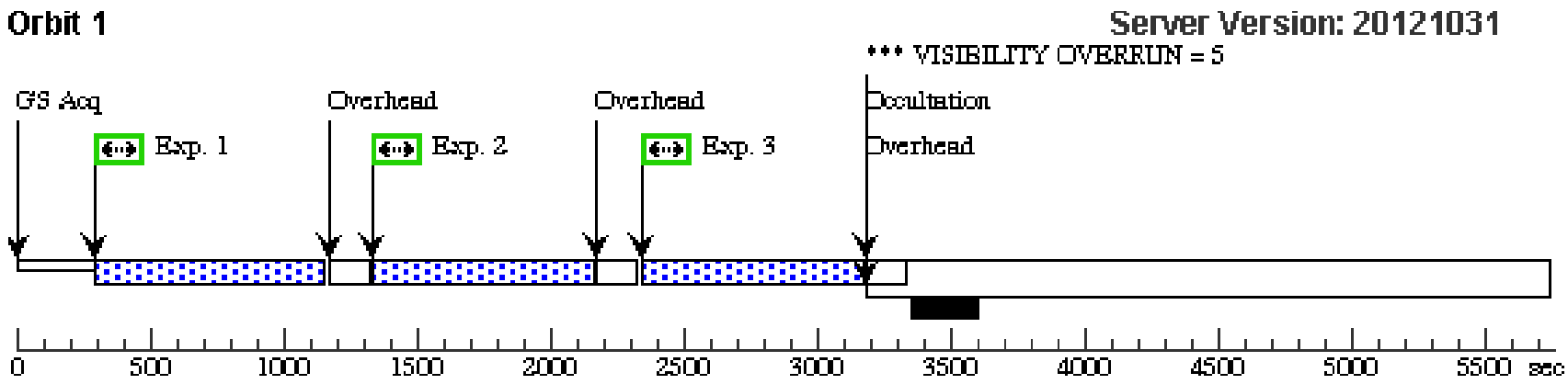
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	f547m-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				830 Secs *[==>]*	 ***[1]***
2	f547m-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				830 Secs *[==>]*	 ***[1]***
3	f547m-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				830 Secs *[==>]*	 ***[1]***

Orbit Structure



Proposal 12448 - Visit 23 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Visit

Proposal 12448, Visit 23, completed Thu Jan 17 02:07:18 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: AFTER 58; BETWEEN 13-JAN-2012:00:00:00 AND 04-FEB-2012:00:00:00

Comments: This version (Jan. 4, 2012) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visit 23, which consists of two orbits and should be executed between January 13 and February 3, 2012. Visit 23 is composed of two triplets of WFC3/UVIS 900s exposures in F546M.

Diagnostics

(Visit 23) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 23) Warning (Orbit Planner): VISIBILITY OVERRUN

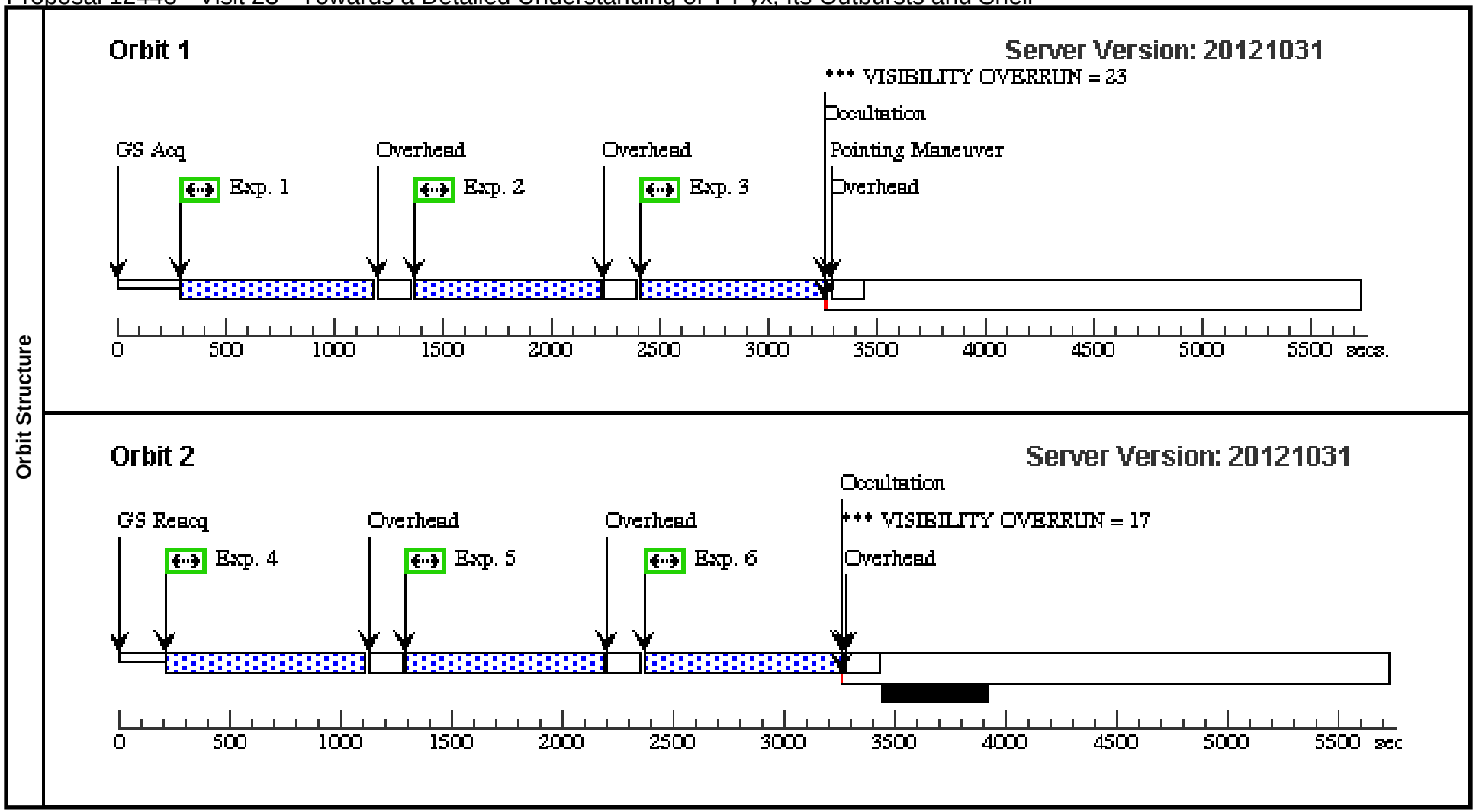
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	f547m-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				865 Secs *[==>]*	*[1]*
2	f547m-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				865 Secs *[==>]*	*[1]*
3	f547m-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				865 Secs *[==>]*	*[1]*
4	f547m-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M		POS TARG 0.099,0.106		900 Secs *[==>]*	*[2]*
5	f547m-5	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M		SAME POS AS 4		900 Secs *[==>]*	*[2]*
6	f547m-6	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M		SAME POS AS 4		900 Secs *[==>]*	*[2]*


Orbit Structure
Orbit 1
Server Version: 20121031
*** VISIBILITY OVERRUN = 23
Occultation
GS Acq
Overhead
Overhead
Pointing Maneuver
Exp. 1
Exp. 2
Exp. 3
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 2
Server Version: 20121031
Occultation
GS Reacq
Overhead
Overhead
*** VISIBILITY OVERRUN = 17
Exp. 4
Exp. 5
Exp. 6
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 12448 - Visit 24 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Visit

Proposal 12448, Visit 24, completed Thu Jan 17 02:07:20 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: AFTER 58; BETWEEN 22-FEB-2012:00:00:00 AND 01-MAR-2012:00:00:00

Comments: This version (Feb. 8, 2012) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visit 24, which consists of two orbits and should be executed between February 22 and 29, 2012. Visit 24 is composed of two triplets of WFC3/UVIS 900s exposures in F546M.

Diagnostics

(Visit 24) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 24) Warning (Orbit Planner): VISIBILITY OVERRUN

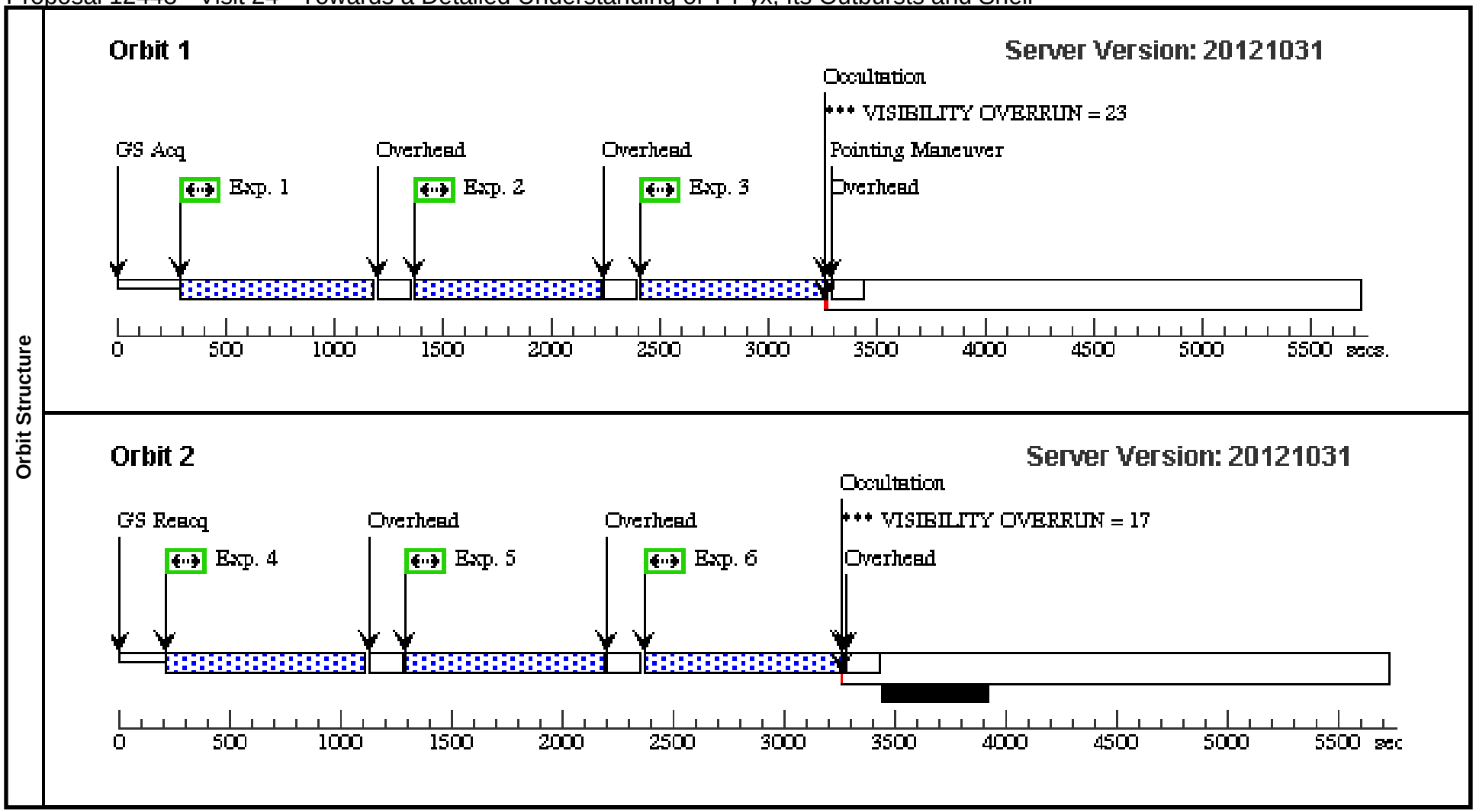
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	f547m-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				865 Secs *[==>]*	*[1]*
2	f547m-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				865 Secs *[==>]*	*[1]*
3	f547m-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				865 Secs *[==>]*	*[1]*
4	f547m-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M		POS TARG 0.099,0.106		900 Secs *[==>]*	*[2]*
5	f547m-5	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M		SAME POS AS 4		900 Secs *[==>]*	*[2]*
6	f547m-6	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M		SAME POS AS 4		900 Secs *[==>]*	*[2]*


Orbit Structure
Orbit 1
Server Version: 20121031
Occultation
*** VISIBILITY OVERRUN = 23
GS Acq
Overhead
Overhead
Pointing Maneuver
Exp. 1
Exp. 2
Exp. 3
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 2
Server Version: 20121031
Occultation
*** VISIBILITY OVERRUN = 17
GS Reacq
Overhead
Overhead
Exp. 4
Exp. 5
Exp. 6
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 12448 - Visit 25 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Visit

Proposal 12448, Visit 25, completed Thu Jan 17 02:07:22 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: AFTER 58; BETWEEN 19-MAY-2012:00:00:00 AND 31-MAY-2012:00:00:00

Comments: This version (May 5, 2012) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visit 25, which consists of two orbits and should be executed between May 19 and 31, 2012. Visit 25 is composed of two triplets of WFC3/UVIS 865s to 900s exposures in F547M.

Diagnostics

(Visit 25) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 25) Warning (Orbit Planner): VISIBILITY OVERRUN

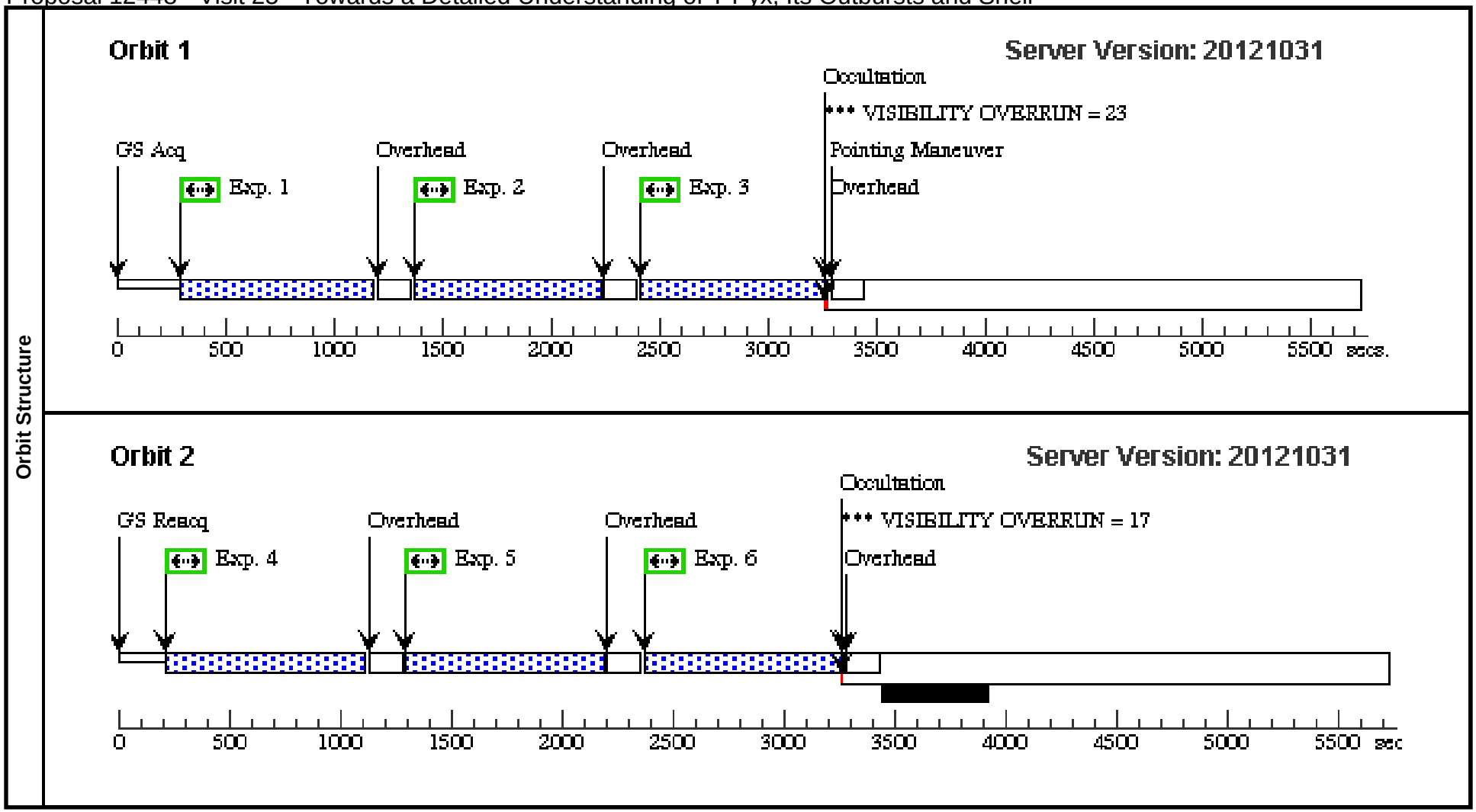
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	f547m-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				865 Secs *[==>]*	*[1]*
2	f547m-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				865 Secs *[==>]*	*[1]*
3	f547m-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M				865 Secs *[==>]*	*[1]*
4	f547m-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M		POS TARG 0.099,0.106		900 Secs *[==>]*	*[2]*
5	f547m-5	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M		SAME POS AS 4		900 Secs *[==>]*	*[2]*
6	f547m-6	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M		SAME POS AS 4		900 Secs *[==>]*	*[2]*


Orbit Structure
Orbit 1
Server Version: 20121031
Occultation
*** VISIBILITY OVERRUN = 23
GS Acq
Overhead
Overhead
Pointing Maneuver
Exp. 1
Exp. 2
Exp. 3
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 2
Server Version: 20121031
Occultation
*** VISIBILITY OVERRUN = 17
GS Reacq
Overhead
Overhead
Exp. 4
Exp. 5
Exp. 6
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12448, Visit 59, withdrawn Thu Jan 17 02:07:24 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, WFC3/UVIS

Special Requirements: AFTER 58

Comments: This version (July 18, 2012) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visit 59, which consists of three orbits and should be executed before August 2, 2012 if possible. Visit 59 is composed of two orbits of WFC3/UVIS exposures on T Pyx and environs followed by one orbit of a STIS pair of CR-split exposures (in G430L and G750L) on T Pyx and environs.

REGARDING DUPLICATIONS:

This is the first epoch in our program in which the central source is not likely to be saturated in our images so we would like to take this opportunity to resolve the closer nebulosity. To interpret our images we would like to also take one short spectrum (consistent with our proposed science) and a series of images in narrow-band filters (F487N, F502N, F656N and F658N) and in our continuum band F547M. While some of these are images in filters not originally proposed, they will help us disentangle the various transitions at different doppler shifts and allow us to discover if structures seen in our broader bands are continuum sources e.g., echoes, or line emission sources. Only one of these filters has been used in another approved HST program on T Pyx in its current outburst (which we discuss below).

The completed program GO/DD 12446 between April 2011 and May 2012 ("Ionization and Light Echoes in the T Pyxidis Nebula," Michael Shara, PI) only ever used the F656N filter. These exposures saturated the inner structure that we wish to study with this filter. Furthermore we expect that T Pyx and surrounding nebulosity will have changed significantly since the final exposure in this program which was completed in May 2012.

Our program 12448 uses G450L and G750L spectroscop of T Pyx and environs. STIS spectra in G430L and G750L were taken of T Pyx in its current outburst as part of completed program GO 12200 ("STIS UV spectroscopy of a bright classical nova during its super soft X-ray phase," Gregory Schwarz, PI), but this was during May - October 2011 when T Pyx was radically different than now. Furthermore our current program proposes and is designed to resolve spatial structure in nova ejecta shells on scales of 0.1-10 arcsec, whereas 12200 uses only the 0.2x0.2 arcsec aperture which cannot be used for studying spatial structure.

Likewise STIS UV spectra (not G430L or G750L) were taken of T Pyx for completed program GO/DD 12799 ("The Unique Recurrent Nova T Pyxidis: The Transition to Quiescence," Edward Sion, PI) which also used only the 0.2x0.2 arcsec aperture.

Diagnostics

(Visit 59) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

(Visit 59) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

(Visit 59) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.270 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

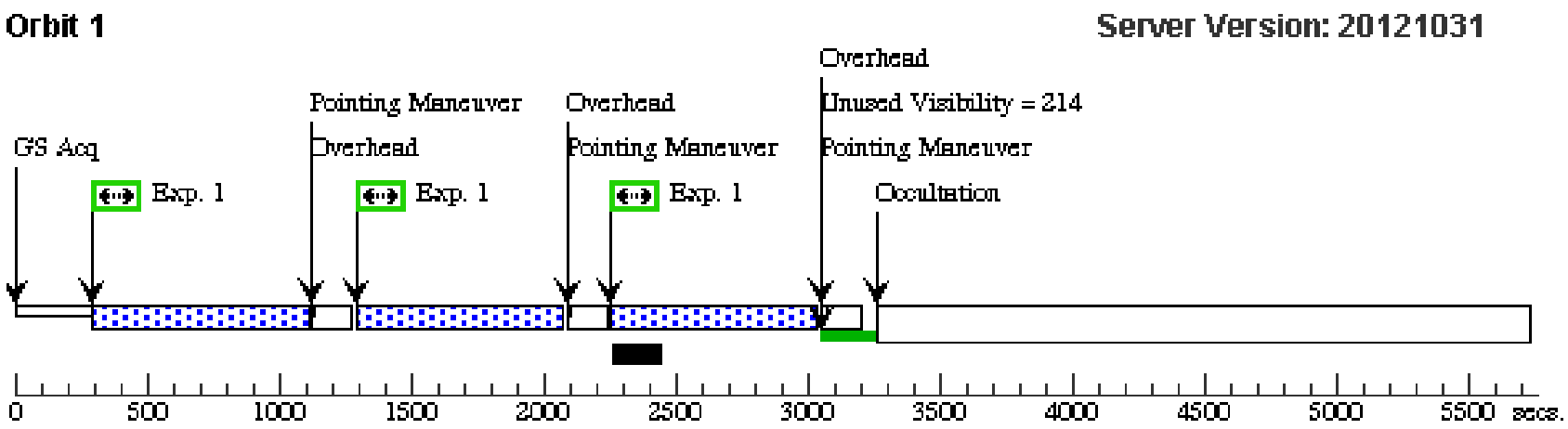
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

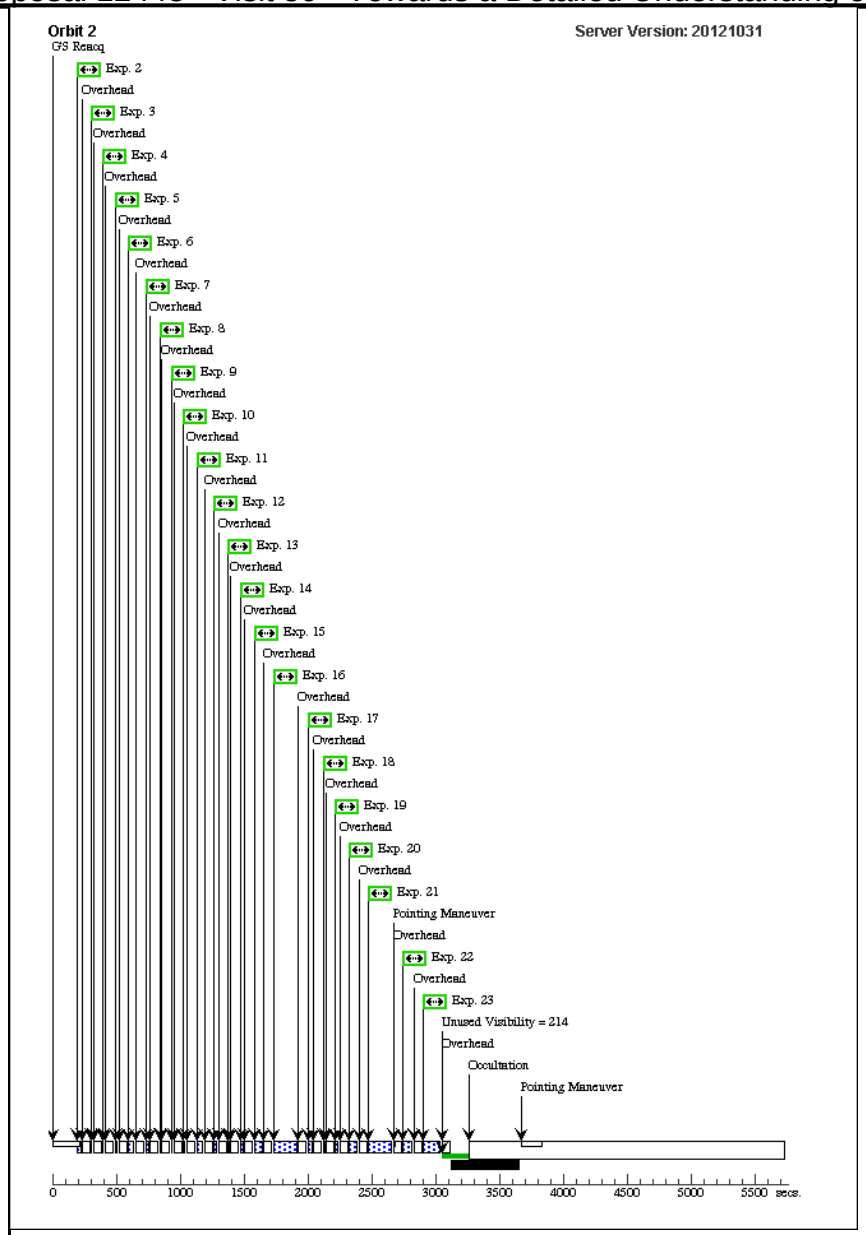
Exposures

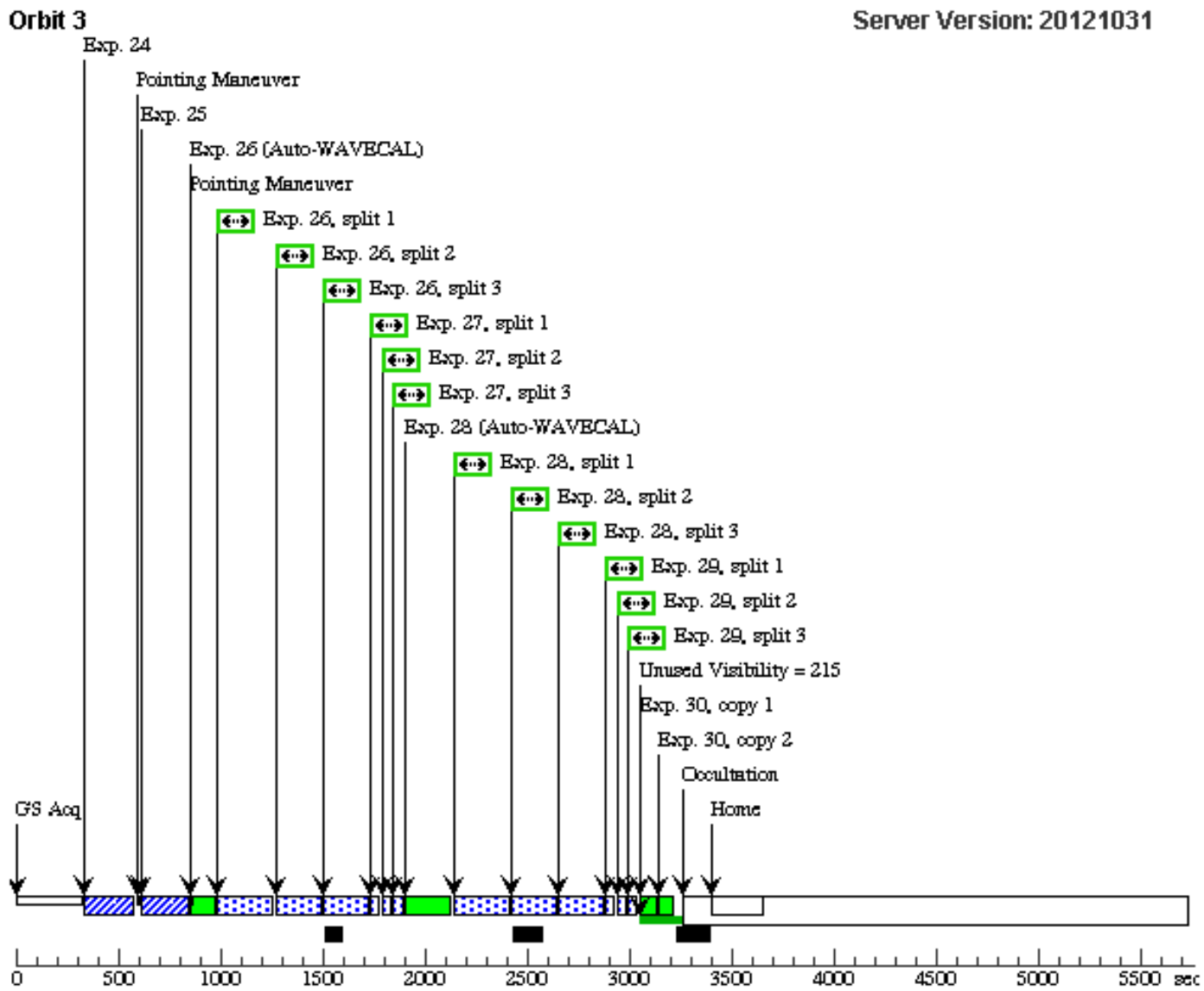
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	f547m-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M			Pattern 1, Exps 1-1 in Visit 59 (1)	786 Secs *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]*	***[1]***
2	f487n-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F487N		POS TARG 0.099,0.106		0.5 Secs *[==>]*	***[2]***
3	f487n-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F487N		POS TARG 0.099,0.106		1.5 Secs *[==>]*	***[2]***
4	f487n-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F487N		POS TARG 0.099,0.106		5 Secs *[==>]*	***[2]***
5	f487n-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F487N		POS TARG 0.099,0.106		15 Secs *[==>]*	***[2]***
6	f487n-5	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F487N		POS TARG 0.099,0.106		45 Secs *[==>]*	***[2]***
7	f502n-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N		SAME POS AS 2		0.5 Secs *[==>]*	***[2]***
8	f502n-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N		SAME POS AS 2		1.5 Secs *[==>]*	***[2]***
9	f502n-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N		SAME POS AS 2		5 Secs *[==>]*	***[2]***
10	f502n-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N		SAME POS AS 2		15 Secs *[==>]*	***[2]***
11	f502n-5	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N		SAME POS AS 2		45 Secs *[==>]*	***[2]***
12	f656n-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F656N		SAME POS AS 2		2 Secs *[==>]*	***[2]***
13	f656n-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F656N		SAME POS AS 2		6 Secs *[==>]*	***[2]***
14	f656n-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F656N		SAME POS AS 2		20 Secs *[==>]*	***[2]***
15	f656n-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F656N		SAME POS AS 2		60 Secs *[==>]*	***[2]***
16	f656n-5	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F656N		SAME POS AS 2		180 Secs *[==>]*	***[2]***
17	f658n-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F658N		SAME POS AS 2		2 Secs *[==>]*	***[2]***
18	f658n-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F658N		SAME POS AS 2		6 Secs *[==>]*	***[2]***
19	f658n-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F658N		SAME POS AS 2		20 Secs *[==>]*	***[2]***
20	f658n-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F658N		SAME POS AS 2		60 Secs *[==>]*	***[2]***

21	f658n-5	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F658N		SAME POS AS 2	180 Secs *[==>]*	 ***[2]***
22	f547m-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F547M			45 Secs *[==>]*	 ***[2]***
23	f547m-5	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F547M			130 Secs *[==>]*	 ***[2]***
24	TPyx-ACQ (417875)	(1) T-PYX	STIS/CCD, ACQ, 50CCD	MIRROR			1 Secs *[==>]*	 ***[3]***
25	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR			1 Secs *[==>]*	 ***[3]***
26	G430L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=3		570 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	 ***[3]***
27	G430L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=3		30 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	 ***[3]***
28	G750L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=3		560 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	 ***[3]***
29	G750L	(1) T-PYX	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=3		30 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	 ***[3]***
30	FRINGE FL AT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A			*[==>(Copy 1)]* *[==>(Copy 2)]*	***[3]***

Orbit Structure




Orbit 2
Server Version: 20121031
GS Reaoq
Exp. 2
Overhead
Exp. 3
Overhead
Exp. 4
Overhead
Exp. 5
Overhead
Exp. 6
Overhead
Exp. 7
Overhead
Exp. 8
Overhead
Exp. 9
Overhead
Exp. 10
Overhead
Exp. 11
Overhead
Exp. 12
Overhead
Exp. 13
Overhead
Exp. 14
Overhead
Exp. 15
Overhead
Exp. 16
Overhead
Exp. 17
Overhead
Exp. 18
Overhead
Exp. 19
Overhead
Exp. 20
Overhead
Exp. 21
Pointing Maneuver
Overhead
Exp. 22
Overhead
Exp. 23
Unused Visibility = 214
Overhead
Occultation
Pointing Maneuver
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 3
Server Version: 20121031
Exp. 24
Pointing Maneuver
Exp. 25
Exp. 26 (Auto-WAVECAL)
Pointing Maneuver
Exp. 26, split 1
Exp. 26, split 2
Exp. 26, split 3
Exp. 27, split 1
Exp. 27, split 2
Exp. 27, split 3
Exp. 28 (Auto-WAVECAL)
Exp. 28, split 1
Exp. 28, split 2
Exp. 28, split 3
Exp. 29, split 1
Exp. 29, split 2
Exp. 29, split 3
Unused Visibility = 215
Exp. 30, copy 1
Exp. 30, copy 2
Occultation
Home
GS Acq
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12448, Visit 60, completed Thu Jan 17 02:07:28 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, WFC3/UVIS

Special Requirements: AFTER 58

Comments: This version (July 23, 2012) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visit 60, which consists of three orbits and should be executed before August 2, 2012 if possible. Visit 60 is composed of two orbits of WFC3/UVIS exposures on T Pyx and environs followed by one orbit of a STIS pair of CR-split exposures (in G430L and G750L) on T Pyx and environs. THIS VERSION IS IDENTICAL TO THE VERSION SUBMITTED ON JULY 18, 2012, EXCEPT THE APERTURE HAS BEEN CHANGED ON EXPOSURES 26 THROUGH 29. To keep these changes separate, Visit 59 has been changed to Visit 60. DO NOT EXECUTE VISIT 59 IF VISIT 60 IS BEING EXECUTED. UNDER NO CONDITIONS SHOULD BOTH VISITS 59 & 60 BE EXECUTED, ONLY ONE OF THESE VISITS.

REGARDING DUPLICATIONS:

This is the first epoch in our program in which the central source is not likely to be saturated in our images so we would like to take this opportunity to resolve the closer nebulosity. To interpret our images we would like to also take one short spectrum (consistent with our proposed science) and a series of images in narrow-band filters (F487N, F502N, F656N and F658N) and in our continuum band F547M. While some of these are images in filters not originally proposed, they will help us disentangle the various transitions at different doppler shifts and allow us to discover if structures seen in our broader bands are continuum sources e.g., echoes, or line emission sources. Only one of these filters has been used in another approved HST program on T Pyx in its current outburst (which we discuss below).

The completed program GO/DD 12446 between April 2011 and May 2012 ("Ionization and Light Echoes in the T Pyxidis Nebula," Michael Shara, PI) only ever used the F656N filter. These exposures saturated the inner structure that we wish to study with this filter. Furthermore we expect that T Pyx and surrounding nebulosity will have changed significantly since the final exposure in this program which was completed in May 2012.

Our program 12448 uses G450L and G750L spectroscop of T Pyx and environs. STIS spectra in G430L and G750L were taken of T Pyx in its current outburst as part of completed program GO 12200 ("STIS UV spectroscopy of a bright classical nova during its super soft X-ray phase," Gregory Schwarz, PI), but this was during May - October 2011 when T Pyx was radically different than now. Furthermore our current program proposes and is designed to resolve spatial structure in nova ejecta shells on scales of 0.1-10 arcsec, whereas 12200 uses only the 0.2x0.2 arcsec aperture which cannot be used for studying spatial structure.

Likewise STIS UV spectra (not G430L or G750L) were taken of T Pyx for completed program GO/DD 12799 ("The Unique Recurrent Nova T Pyxidis: The Transition to Quiescence," Edward Sion, PI) which also used only the 0.2x0.2 arcsec aperture.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.270 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

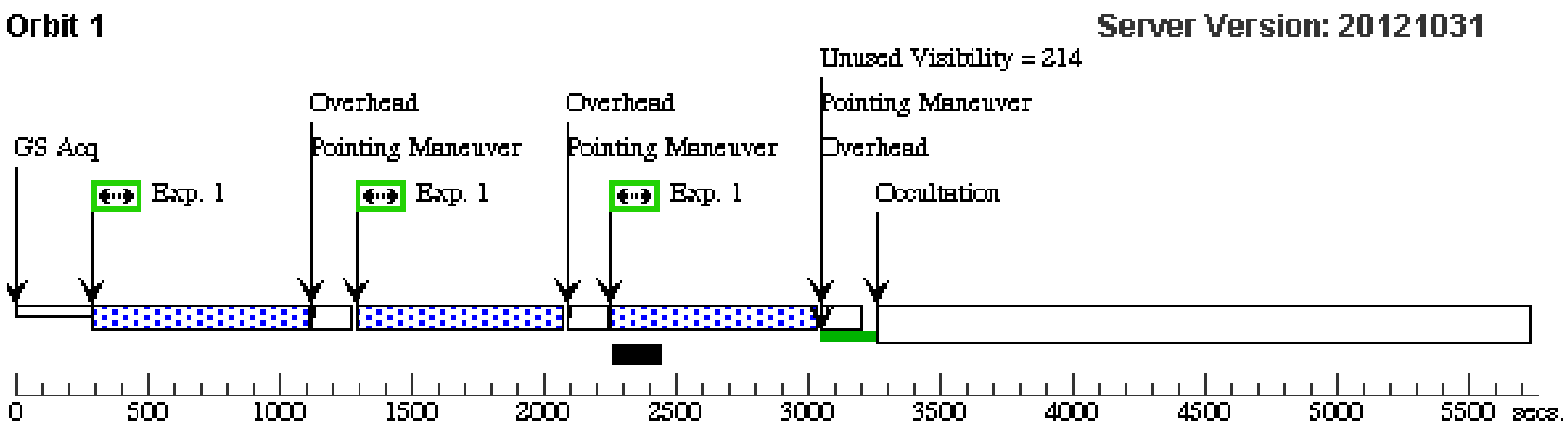
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

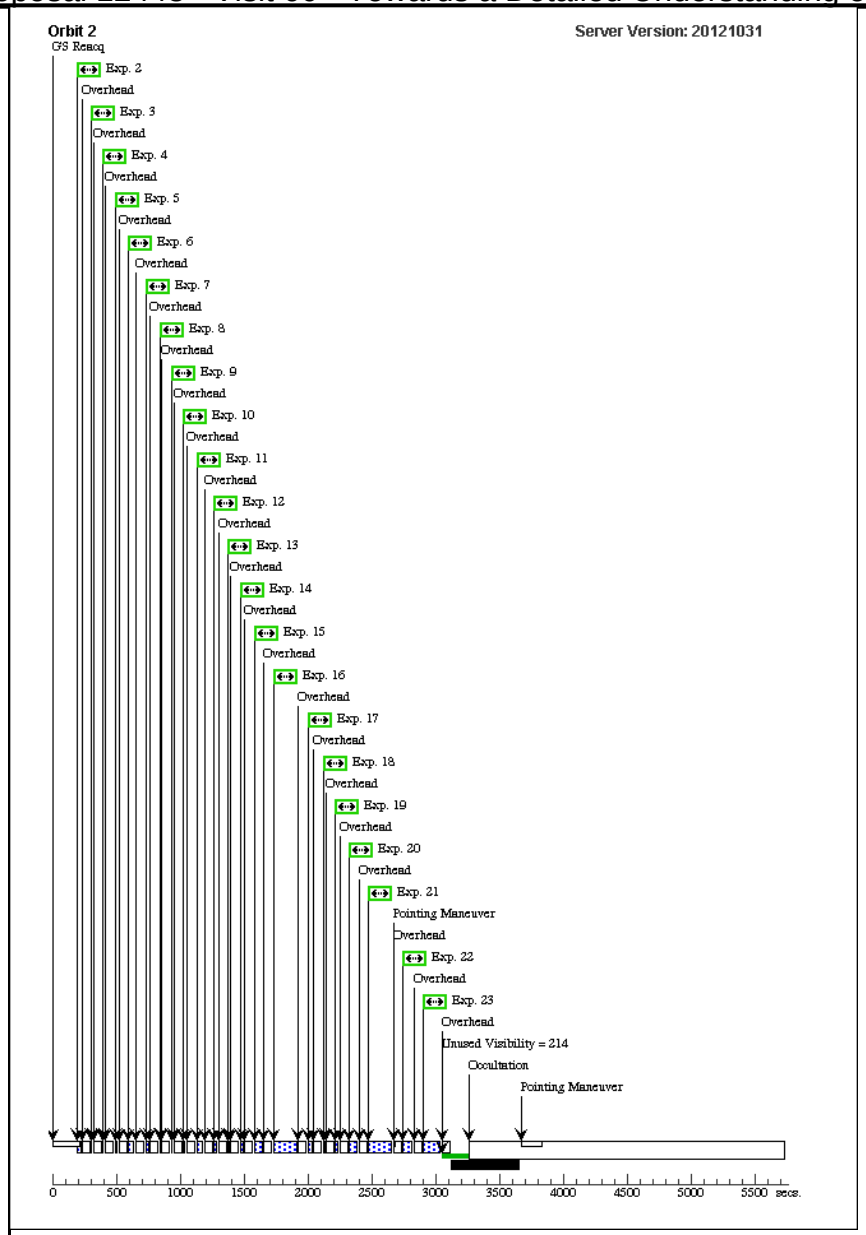
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	f547m-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M			Pattern 1, Exps 1-1 in Visit 60 (1)	786 Secs *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]*	***[1]***
2	f487n-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F487N		POS TARG 0.099,0.106		0.5 Secs *[==>]*	***[2]***
3	f487n-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F487N		POS TARG 0.099,0.106		1.5 Secs *[==>]*	***[2]***
4	f487n-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F487N		POS TARG 0.099,0.106		5 Secs *[==>]*	***[2]***
5	f487n-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F487N		POS TARG 0.099,0.106		15 Secs *[==>]*	***[2]***
6	f487n-5	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F487N		POS TARG 0.099,0.106		45 Secs *[==>]*	***[2]***
7	f502n-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N		SAME POS AS 2		0.5 Secs *[==>]*	***[2]***
8	f502n-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N		SAME POS AS 2		1.5 Secs *[==>]*	***[2]***
9	f502n-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N		SAME POS AS 2		5 Secs *[==>]*	***[2]***
10	f502n-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N		SAME POS AS 2		15 Secs *[==>]*	***[2]***
11	f502n-5	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N		SAME POS AS 2		45 Secs *[==>]*	***[2]***
12	f656n-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F656N		SAME POS AS 2		2 Secs *[==>]*	***[2]***
13	f656n-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F656N		SAME POS AS 2		6 Secs *[==>]*	***[2]***
14	f656n-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F656N		SAME POS AS 2		20 Secs *[==>]*	***[2]***
15	f656n-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F656N		SAME POS AS 2		60 Secs *[==>]*	***[2]***
16	f656n-5	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F656N		SAME POS AS 2		180 Secs *[==>]*	***[2]***
17	f658n-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F658N		SAME POS AS 2		2 Secs *[==>]*	***[2]***
18	f658n-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F658N		SAME POS AS 2		6 Secs *[==>]*	***[2]***
19	f658n-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F658N		SAME POS AS 2		20 Secs *[==>]*	***[2]***
20	f658n-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F658N		SAME POS AS 2		60 Secs *[==>]*	***[2]***

21	f658n-5	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F658N		SAME POS AS 2	180 Secs *[==>]*	 ***[2]***
22	f547m-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F547M			45 Secs *[==>]*	 ***[2]***
23	f547m-5	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F547M			130 Secs *[==>]*	 ***[2]***
24	TPyx-ACQ (417875)	(1) T-PYX	STIS/CCD, ACQ, 50CCD	MIRROR			1 Secs *[==>]*	 ***[3]***
25	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR			1 Secs *[==>]*	 ***[3]***
26	G430L	(1) T-PYX	STIS/CCD, ACCUM, 52X2E1	G430L 4300 A	CR-SPLIT=3		570 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	 ***[3]***
27	G430L	(1) T-PYX	STIS/CCD, ACCUM, 52X2E1	G430L 4300 A	CR-SPLIT=3		30 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	 ***[3]***
28	G750L	(1) T-PYX	STIS/CCD, ACCUM, 52X2E1	G750L 7751 A	CR-SPLIT=3		559.8 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	 ***[3]***
29	G750L	(1) T-PYX	STIS/CCD, ACCUM, 52X2E1	G750L 7751 A	CR-SPLIT=3		30 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	 ***[3]***
30	FRINGE FL AT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A			*[==>(Copy 1)]* *[==>(Copy 2)]*	***[3]***

Orbit Structure




Orbit 2
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GS Reaoq
Exp. 2
Overhead
Exp. 3
Overhead
Exp. 4
Overhead
Exp. 5
Overhead
Exp. 6
Overhead
Exp. 7
Overhead
Exp. 8
Overhead
Exp. 9
Overhead
Exp. 10
Overhead
Exp. 11
Overhead
Exp. 12
Overhead
Exp. 13
Overhead
Exp. 14
Overhead
Exp. 15
Overhead
Exp. 16
Overhead
Exp. 17
Overhead
Exp. 18
Overhead
Exp. 19
Overhead
Exp. 20
Overhead
Exp. 21
Pointing Maneuver
Overhead
Exp. 22
Overhead
Exp. 23
Overhead
Unused Visibility = 214
Occultation
Pointing Maneuver
0
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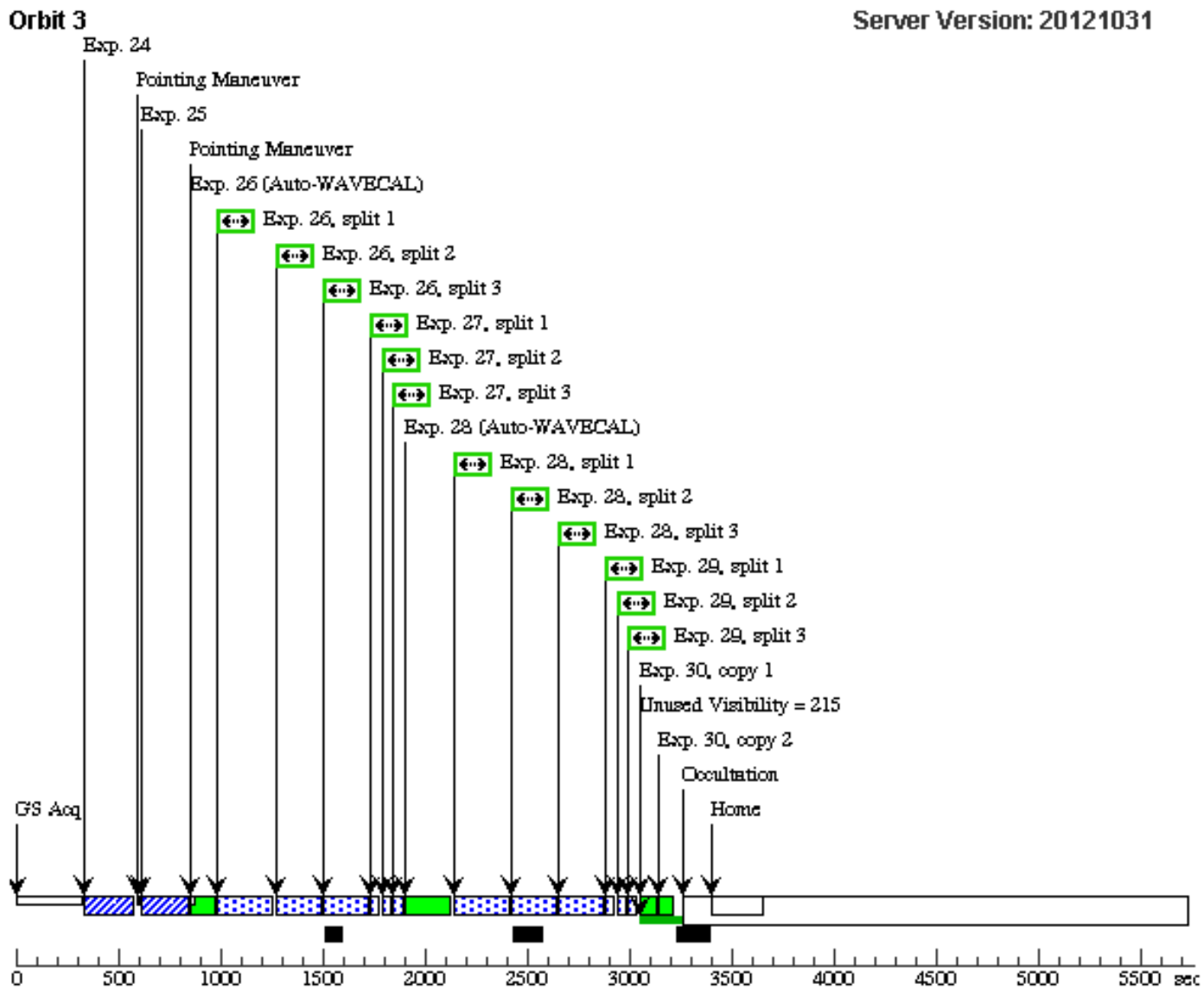
5000
5500
secs.


Orbit 3
Server Version: 20121031
Exp. 24
Pointing Maneuver
Exp. 25
Pointing Maneuver
Exp. 26 (Auto-WAVECAL)
Exp. 26, split 1
Exp. 26, split 2
Exp. 26, split 3
Exp. 27, split 1
Exp. 27, split 2
Exp. 27, split 3
Exp. 28 (Auto-WAVECAL)
Exp. 28, split 1
Exp. 28, split 2
Exp. 28, split 3
Exp. 29, split 1
Exp. 29, split 2
Exp. 29, split 3
Exp. 30, copy 1
Unused Visibility = 215
Exp. 30, copy 2
Occultation
Home
GS Acq
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 12448 - Visit 61 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Visit

Proposal 12448, Visit 61, completed Thu Jan 17 02:07:32 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: BETWEEN 29-SEP-2012:12:00:00 AND 11-OCT-2012:00:00:00

Comments: This version (September 17, 2012) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visit 61, which consists of one orbit and should be executed before October 11, 2012 if possible. Visit 61 is composed of one orbit of a STIS pair of CR-split exposures (in G430L and G750L) on T Pyx and environs. A nearly identical observation was taken on Visit 60 on July 30, 2012 on one of the three orbits of that visit.

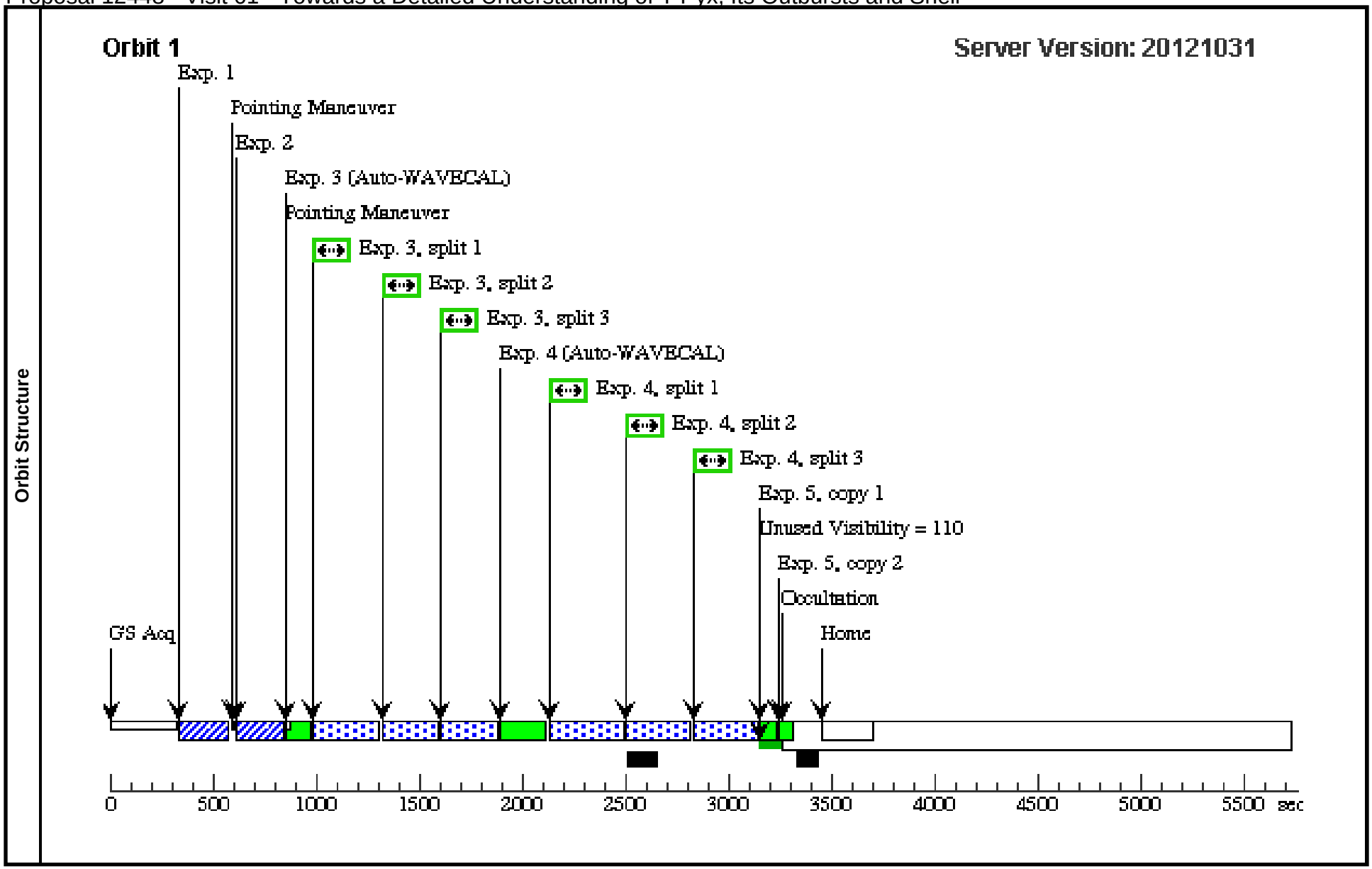
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	TPyx-ACQ (417875)	(1) T-PYX	STIS/CCD, ACQ, 50CCD	MIRROR				1 Secs *[==>]*	*[1]*
2	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				1 Secs *[==>]*	*[1]*
3	G430L	(1) T-PYX	STIS/CCD, ACCUM, 52X2E1	G430L 4300 A	CR-SPLIT=3			720 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	*[1]*
4	G750L	(1) T-PYX	STIS/CCD, ACCUM, 52X2E1	G750L 7751 A	CR-SPLIT=3			840 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	*[1]*
5	FRINGE FLAT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20121031
Exp. 1
Pointing Maneuver
Exp. 2
Exp. 3 (Auto-WAVECAL)
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
Exp. 4 (Auto-WAVECAL)
Exp. 4, split 1
Exp. 4, split 2
Exp. 4, split 3
Exp. 5, copy 1
Unused Visibility = 110
Exp. 5, copy 2
Occultation
Home
GS Acq
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 12448 - Visit 62 - Towards a Detailed Understanding of T Pyx, Its Outbursts and Shell

Visit

Proposal 12448, Visit 62, completed Thu Jan 17 02:07:33 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: BETWEEN 28-NOV-2012:12:00:00 AND 03-DEC-2012:00:00:00

Comments: This version (November 16, 2012) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visit 62, which consists of one orbit and should be executed within two days of November 30, 2012 if possible. Visit 62 is composed of one orbit of a STIS pair of CR-split exposures (in G430L and G750L) on T Pyx and environs. A nearly identical observation was taken on Visit 61.

Diagnostics

(Visit 62) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

(Visit 62) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

(Visit 62) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

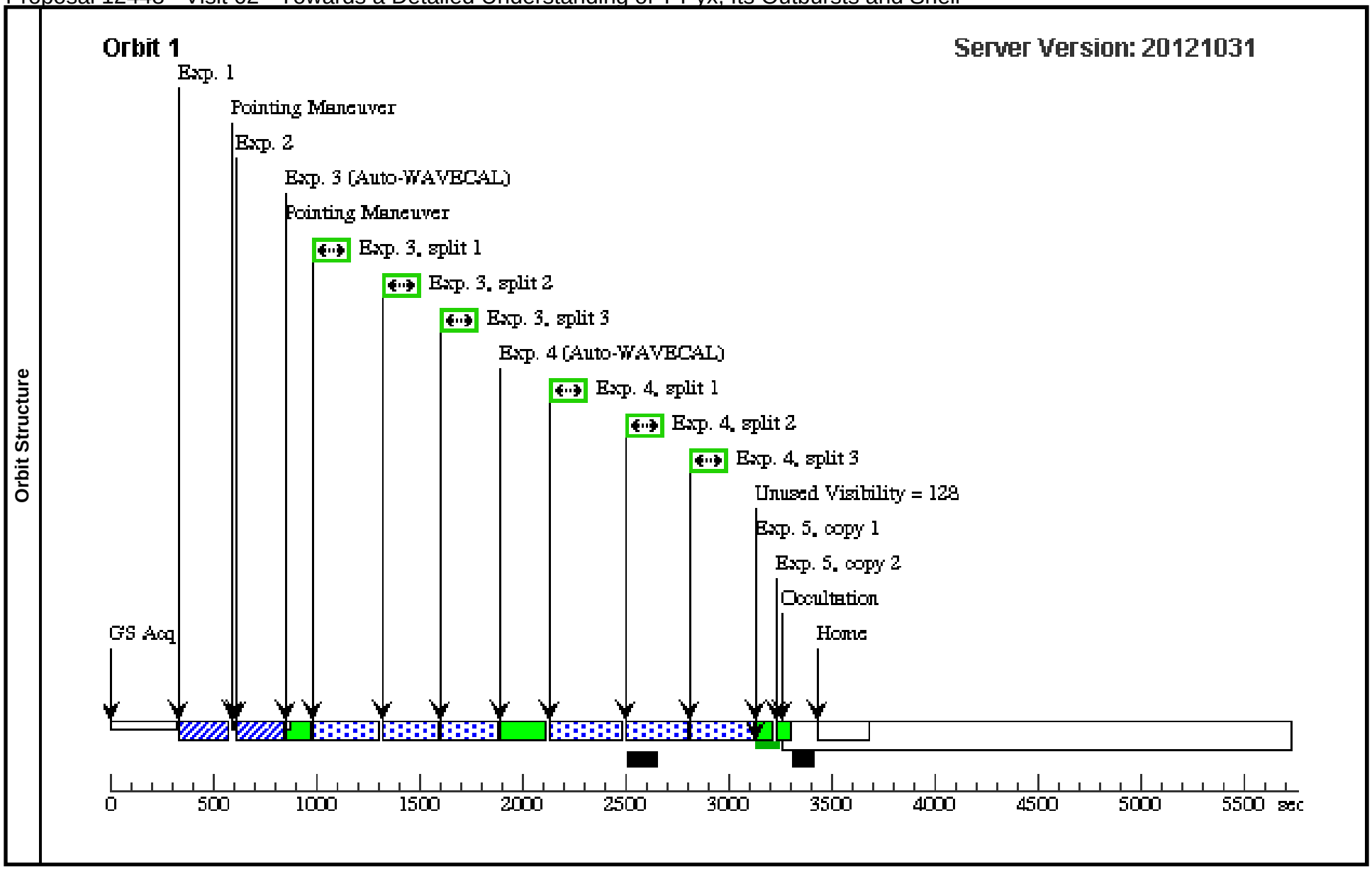
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	TPyx-ACQ (417875)	(1) T-PYX	STIS/CCD, ACQ, 50CCD	MIRROR				1 Secs *[==>]*	***[1]***
2	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				1 Secs *[==>]*	***[1]***
3	G430L	(1) T-PYX	STIS/CCD, ACCUM, 52X2E1	G430L 4300 A	CR-SPLIT=3			720 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
4	G750L	(1) T-PYX	STIS/CCD, ACCUM, 52X2E1	G750L 7751 A	CR-SPLIT=3			820 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
5	FRINGE FLAT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20121031
Exp. 1
Pointing Maneuver
Exp. 2
Exp. 3 (Auto-WAVECAL)
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Exp. 3, split 3
Exp. 4 (Auto-WAVECAL)
Exp. 4, split 1
Exp. 4, split 2
Exp. 4, split 3
Unused Visibility = 128
Exp. 5, copy 1
Exp. 5, copy 2
Occultation
Home
GS Acq
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 12448, Visit 63 Thu Jan 17 02:07:34 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, WFC3/UVIS

Special Requirements: BETWEEN 30-JAN-2013:00:00:00 AND 05-FEB-2013:23:59:59

Comments: This version (January 16, 2013) of proposal GO/DD 12448 is submitted solely for the purpose of executing Visit 63, which consists of two orbit and should be executed within three days of February 2, 2013 if possible. Visit 63 is composed of one orbit of a STIS pair of CR-split exposures (in G430L and G750L) on T Pyx and environs, and one orbit of WFPC3 images with F502N, with exposure times increasing by factors of two to insure one exposure without source saturation.

Diagnostics

(Visit 63) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

(Visit 63) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

(Visit 63) Warning (Orbit Planner): STIS EXPOSURE TIME ROUNDED DOWN TO NEAREST 0.1 SECONDS

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.270 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(6-9)

Fixed Targets

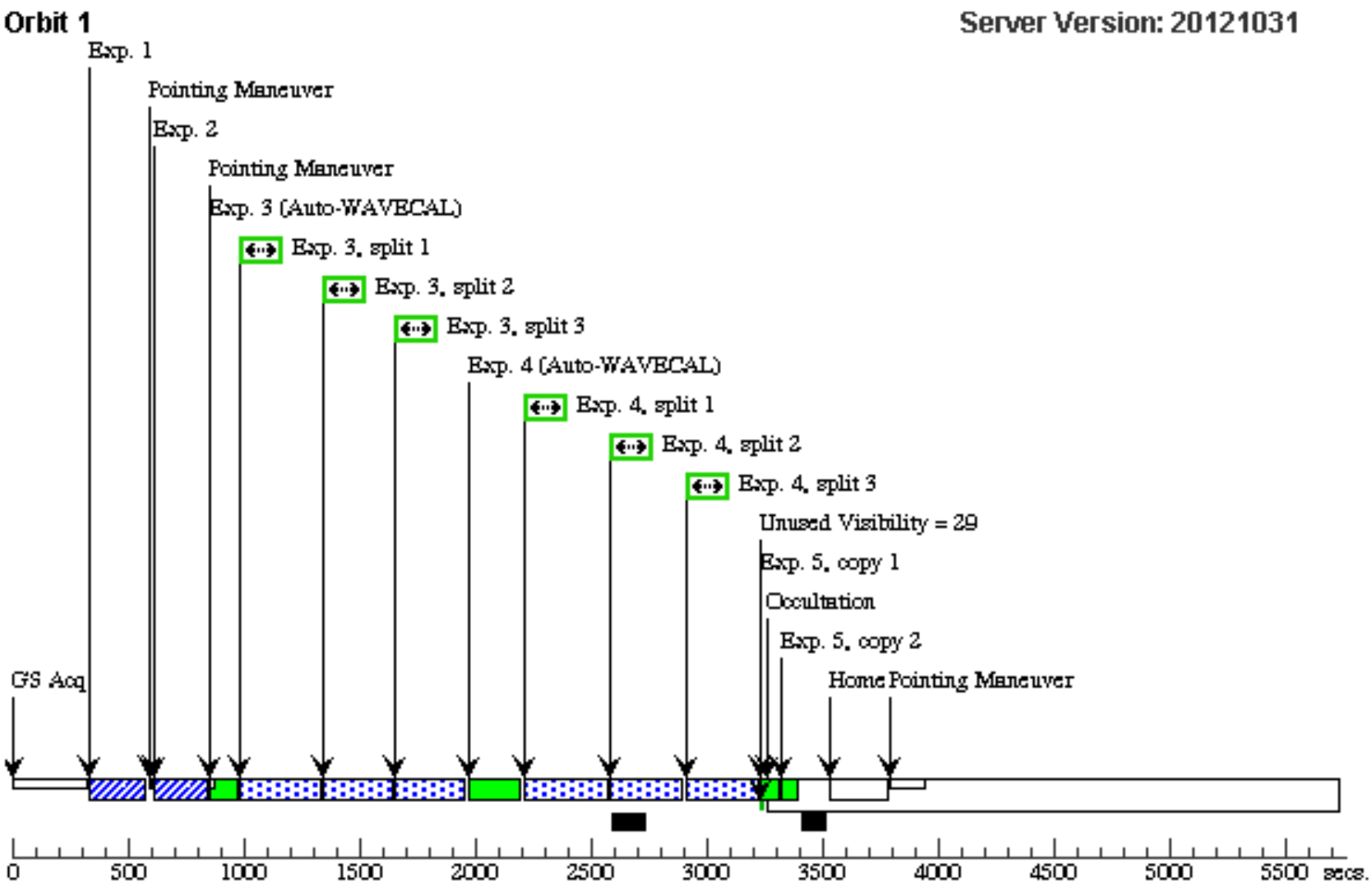
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	T-PYX	RA: 09 04 41.5000 (136.1729167d) Dec: -32 22 47.50 (-32.37986d) Equinox: J2000		V=8+/-1	Reference Frame: ICRS

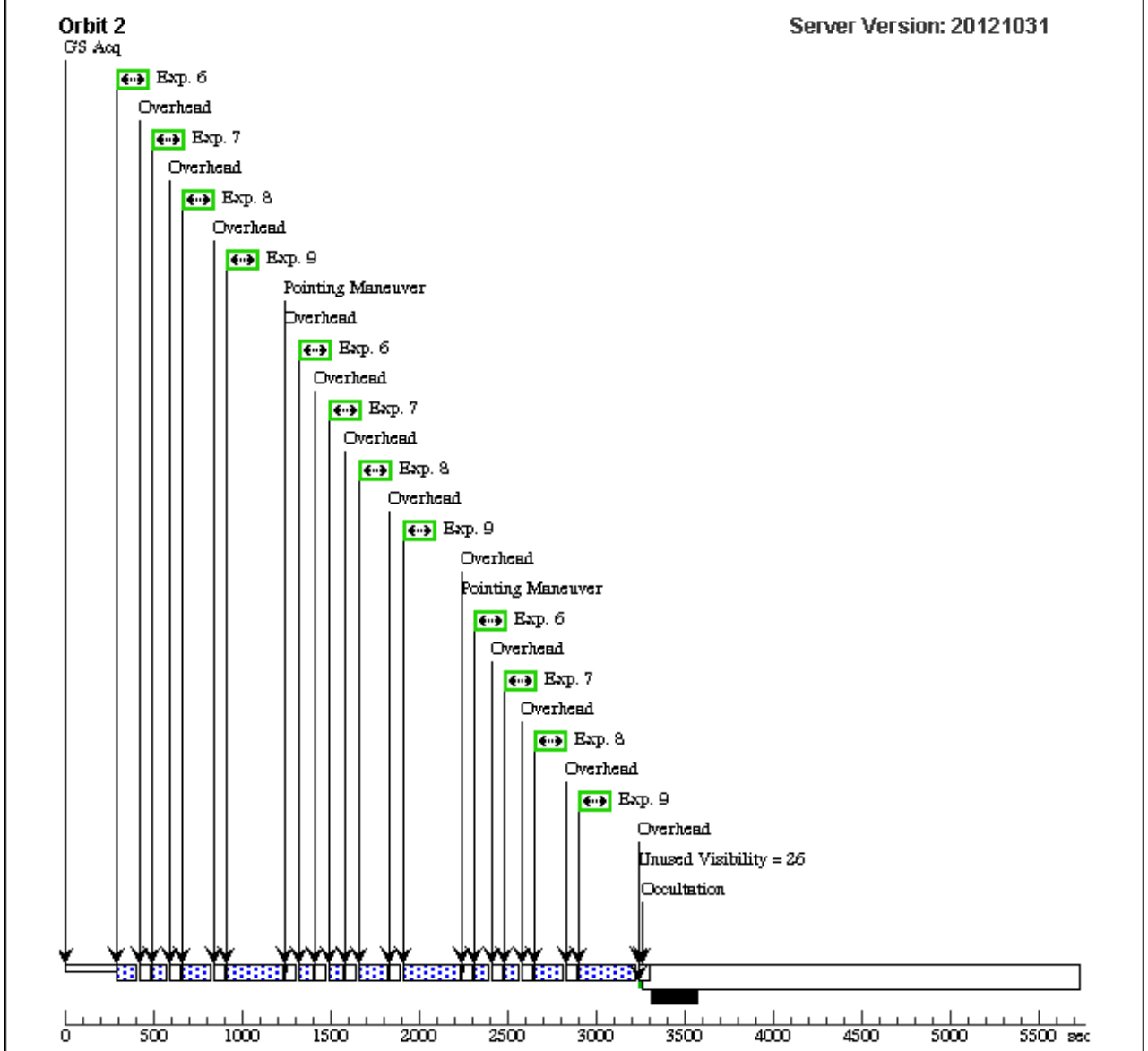
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	TPyx-ACQ (417875)	(1) T-PYX	STIS/CCD, ACQ, 50CCD	MIRROR				1 Secs *[==>]*	***[1]***
2	TPyx-PEAK	(1) T-PYX	STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				1 Secs *[==>]*	***[1]***
3	G430L	(1) T-PYX	STIS/CCD, ACCUM, 52X2E1	G430L 4300 A	CR-SPLIT=3			800 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
4	G750L	(1) T-PYX	STIS/CCD, ACCUM, 52X2E1	G750L 7751 A	CR-SPLIT=3			840 Secs *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
5	FRINGE FLAT	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***
6	f502n-1	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N			Pattern 1, Exps 6-9 in Visit 63 (1)	80 Secs *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]*	***[2]***
7	f502n-2	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N			Pattern 1, Exps 6-9 in Visit 63 (1)	80 Secs *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]*	***[2]***
8	f502n-3	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N			Pattern 1, Exps 6-9 in Visit 63 (1)	160 Secs *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]*	***[2]***
9	f502n-4	(1) T-PYX	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F502N			Pattern 1, Exps 6-9 in Visit 63 (1)	320 Secs *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20121031
GS Acq
Exp. 6
Overhead
Exp. 7
Overhead
Exp. 8
Overhead
Exp. 9
Pointing Maneuver
Overhead
Exp. 6
Overhead
Exp. 7
Overhead
Exp. 8
Overhead
Exp. 9
Overhead
Pointing Maneuver
Exp. 6
Overhead
Exp. 7
Overhead
Exp. 8
Overhead
Exp. 9
Overhead
Unused Visibility = 26
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec