



11228 - Extrasolar Planet XO-2b

Cycle: 16, Proposal Category: GO

(Availability Mode: RESTRICTED)

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) XO-2	NIC3	5	12-Aug-2008 21:05:13.0	yes
02	(1) XO-2	NIC3	5	12-Aug-2008 21:08:59.0	yes
03	(1) XO-2	NIC3	5	12-Aug-2008 21:13:23.0	yes

Visit	<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>
04	(2) X0-2A (3) X0-2B (4) X0-2REF1 (5) X0-2REF2 (6) X0-2REF3 (7) X0-2REF4 (8) X0-2REF5 (9) X0-2REF6 (10) X0-2REF7 (11) X0-2REF8	FGS	1	12-Aug-2008 21:14:38.0	yes
05	(2) X0-2A (3) X0-2B (4) X0-2REF1 (5) X0-2REF2 (6) X0-2REF3 (7) X0-2REF4 (8) X0-2REF5 (9) X0-2REF6 (10) X0-2REF7 (11) X0-2REF8	FGS	1	12-Aug-2008 21:14:48.0	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>
06	(2) X0-2A (3) X0-2B (4) X0-2REF1 (5) X0-2REF2 (6) X0-2REF3 (7) X0-2REF4 (8) X0-2REF5 (9) X0-2REF6 (10) X0-2REF7 (11) X0-2REF8	FGS	1	12-Aug-2008 21:14:58.0	yes
07	(2) X0-2A (3) X0-2B (4) X0-2REF1 (5) X0-2REF2 (6) X0-2REF3 (7) X0-2REF4 (8) X0-2REF5 (9) X0-2REF6 (10) X0-2REF7 (11) X0-2REF8	FGS	1	12-Aug-2008 21:15:11.0	yes

19 Total Orbits Used

ABSTRACT

We propose observations of the newly discovered extrasolar planet XO-2b and its twin star XO-2. When combined with the transit light curve, the FGS-derived parallax will constrain the stellar mass of the host star

XO-2. From the high signal-to-noise near-IR time series resulting from NICMOS grism spectroscopy, we will refine the system parameters, in particular radii of the star and planet. From the same data, we will search for evidence of water vapor in the atmosphere via transmission spectroscopy. Differential observations with NICMOS in the spectroscopic mode will be used to search for the small spectral changes that occur during planetary transits resulting from absorption of stellar light as it passes through the planetary atmosphere. Water is an important constituent, the detection of which would provide information on Oxygen, and it has a convenient strong band well-positioned for NICMOS.

OBSERVING DESCRIPTION

XO-2 will be observed for 3 visits each of 5 HST orbits with the NICMOS G141 grism. The visits will be phased to provide full phase coverage of the XO-2b transit.

XO-2 is 2.97 mags fainter in H than HD 209458, therefore the 1.99s exposures used in GO-9832 become 32s which can be done with STEP8, NSAMP=9. Taking into account the 10s overhead we will maintain 76% duty cycle. Each integration will provide 3×10^7 electrons summed over wavelength, with roughly one third in blue-continuum, H₂O band and red-continuum.

Loose orient constraints of -23 to 77 and 157 to 257 keep both component spectra for this visual binary with 30.8 arcsec separation within the NIC3 field of view (with a couple arcsec margin).

Defocus is adopted using the same values from GO-9832 and the approach used in GO-11335.

ADDITIONAL COMMENTS

IMPLEMENTATION NOTES: the new parameter CAMERA-FOCUS=DEFOCUS and aperture NIC3-FIXD is used on all exposures to place the NIC3 focus mechanism at -0.5mm and adjust the target placement in the aperture for the defocus respectively.

Proposal 11228 - Visit 01 - Extrasolar Planet XO-2b

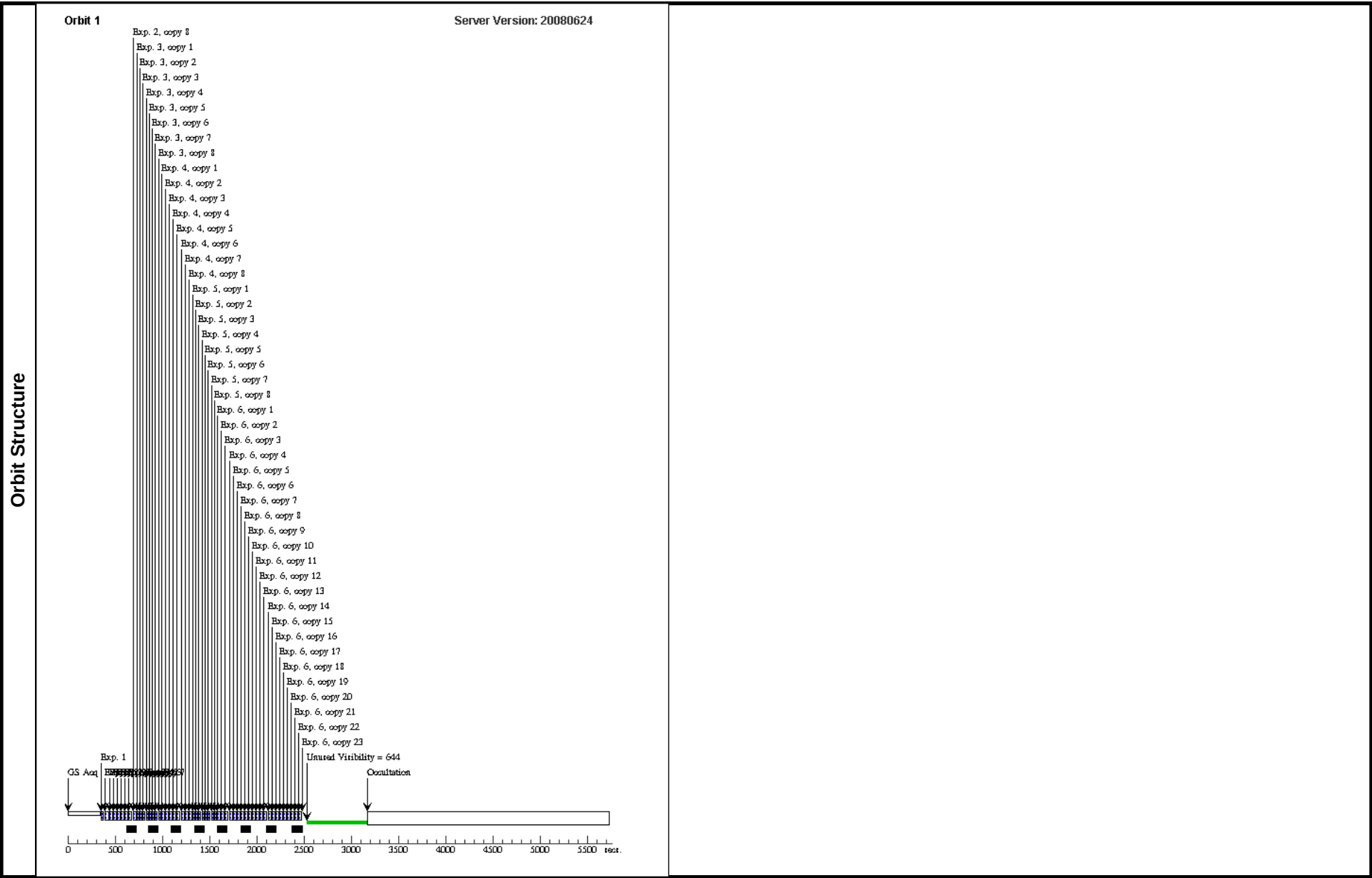
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	Scientific Instruments: NIC3										
	Special Requirements: SCHED 80%; ORIENT 257.0D TO 257.0 D; BETWEEN 01-NOV-2007:00:00:00 AND 03-NOV-2007:00:00:00; Period 2.615838 D AND ZERO-PHASE HJD2454147.74902										
	Comments: The phase and orient constraints have been modified for this to execute at the 2007.306 opportunity. A narrow BETWEEN consistent with this is also applied.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	XO-2	RA: 07 48 6.9720 (117.0290500d)		Proper Motion RA: -0.00227s/yr		V=11.2+/-0.1		Reference Frame: ICRS		
			Dec: +50 13 18.10 (50.22169d)		Proper Motion Dec: -0.1538"/yr						
			Equinox: J2000		Epoch of Position: 2000						
	Comments: Coordinates supplied are the mean of components A and B that are separated by 31 arcsecs. We will use orient constraints (55% of full range) to keep the first order grism spectra from both stars within the detector field of view.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	F166N	SAMP-SEQ=STEP8 ; NSAMP=6; CAMERA-FOCUS =DEFOCUS	POS TARG 3.9,4.7; PHASE 0.921 TO 0.937		[==>]		[1]
	2		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=9; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]		[1]
	3		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=8; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]		[1]

Proposal 11228 - Visit 01 - Extrasolar Planet XO-2b

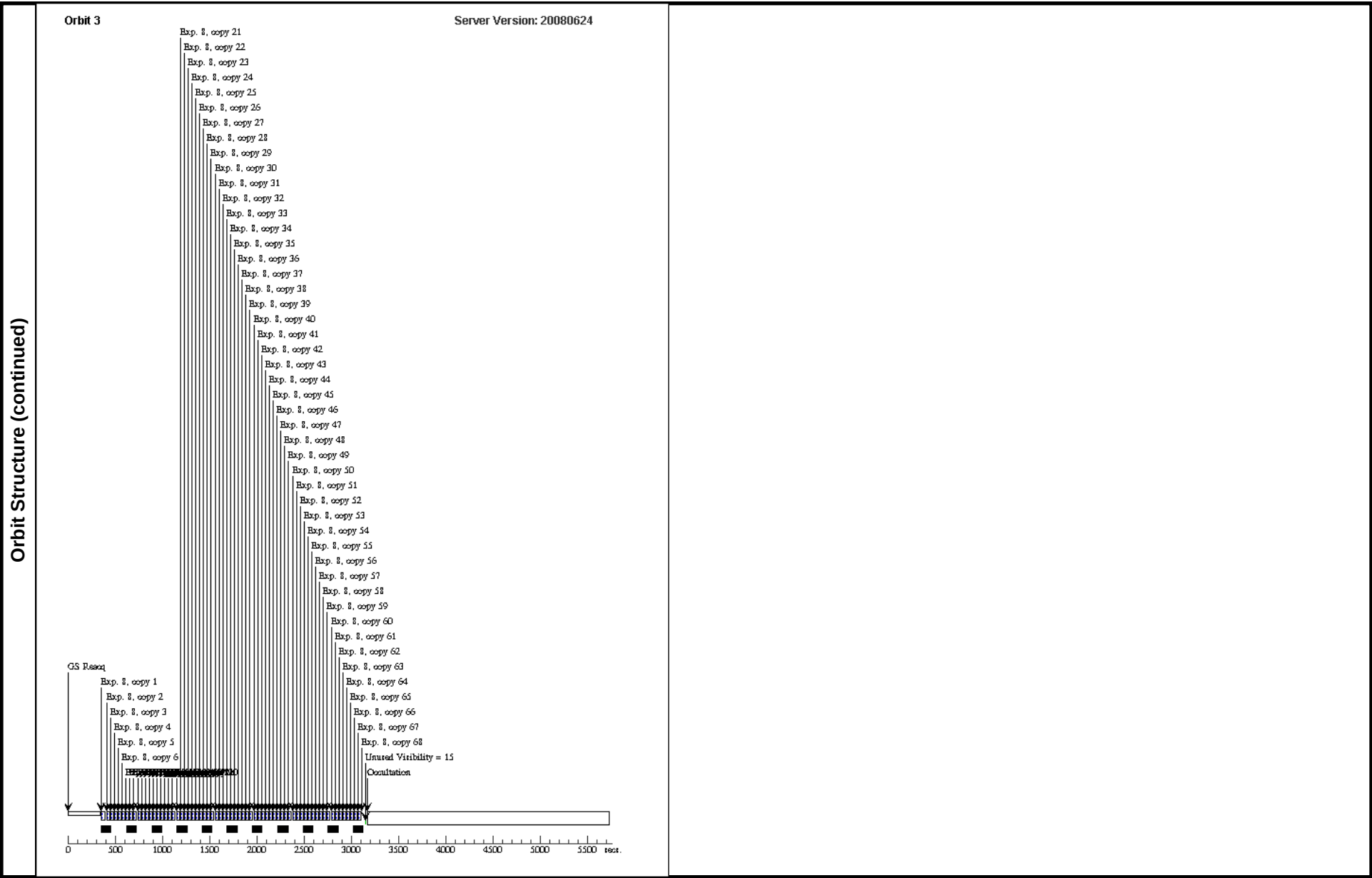
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	5		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=8; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]	[1]

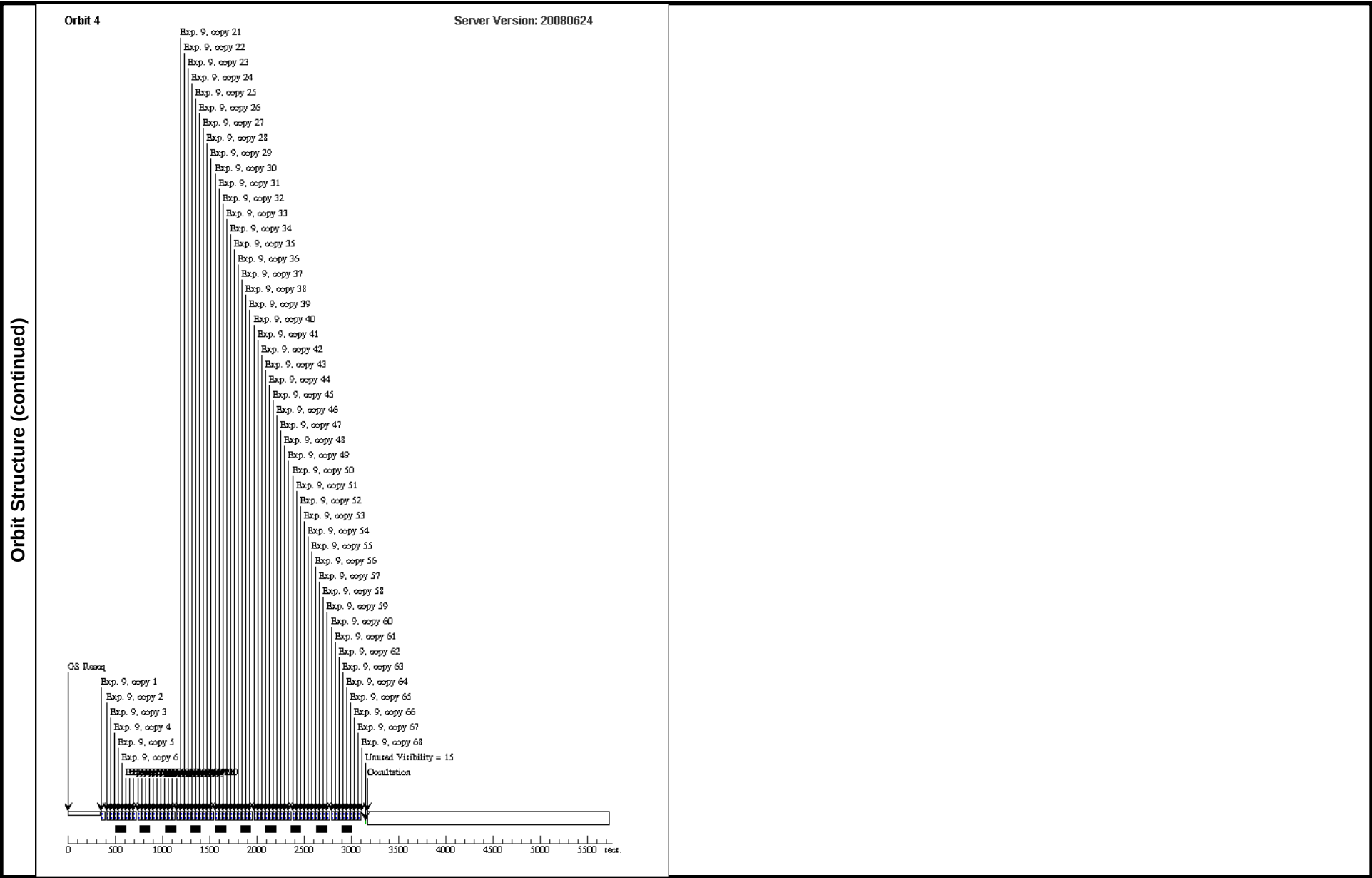
Proposal 11228 - Visit 01 - Extrasolar Planet XO-2b

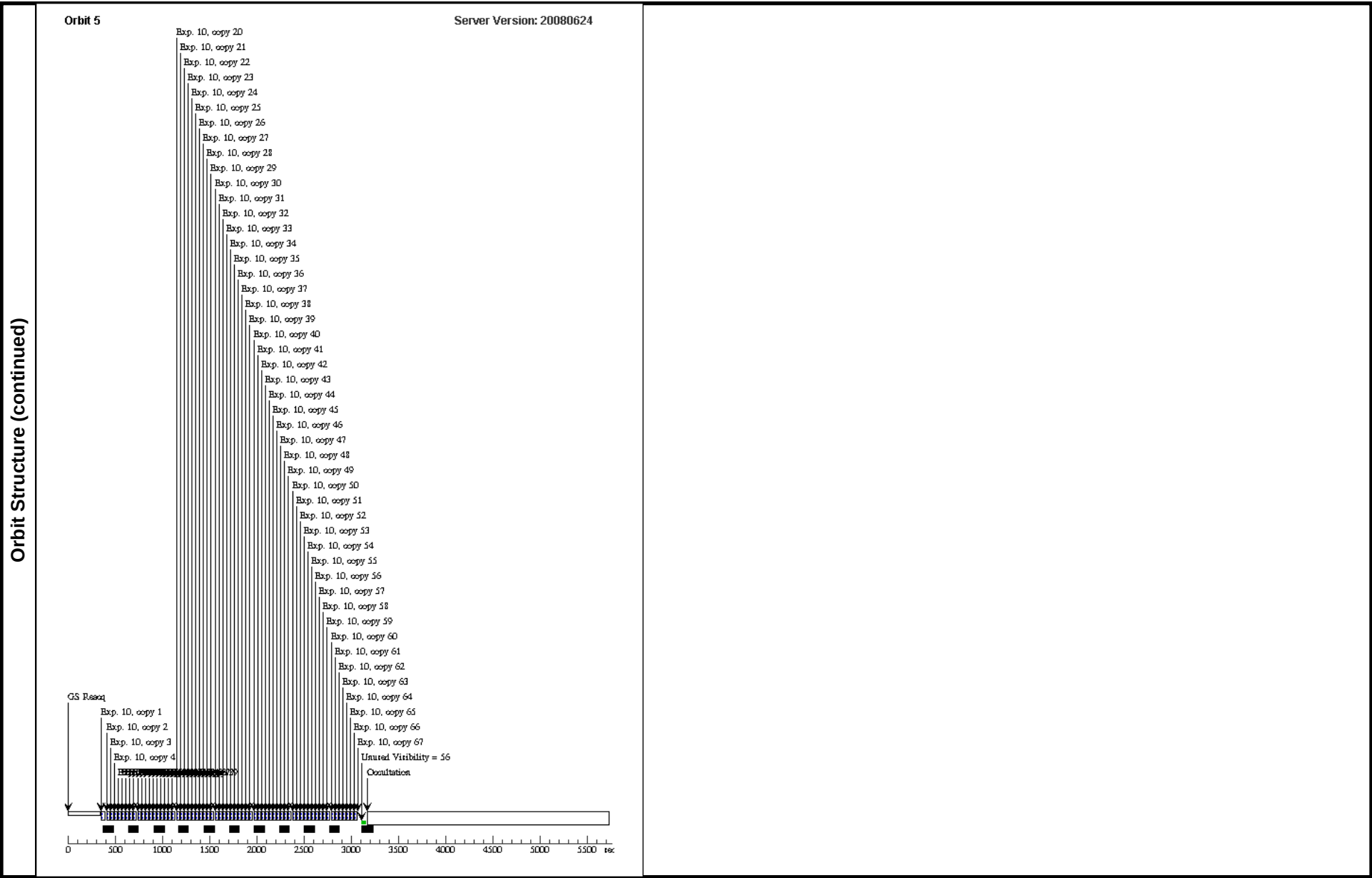
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	6		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=9; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)]	[1]











Proposal 11228 - Visit 02 - Extrasolar Planet XO-2b

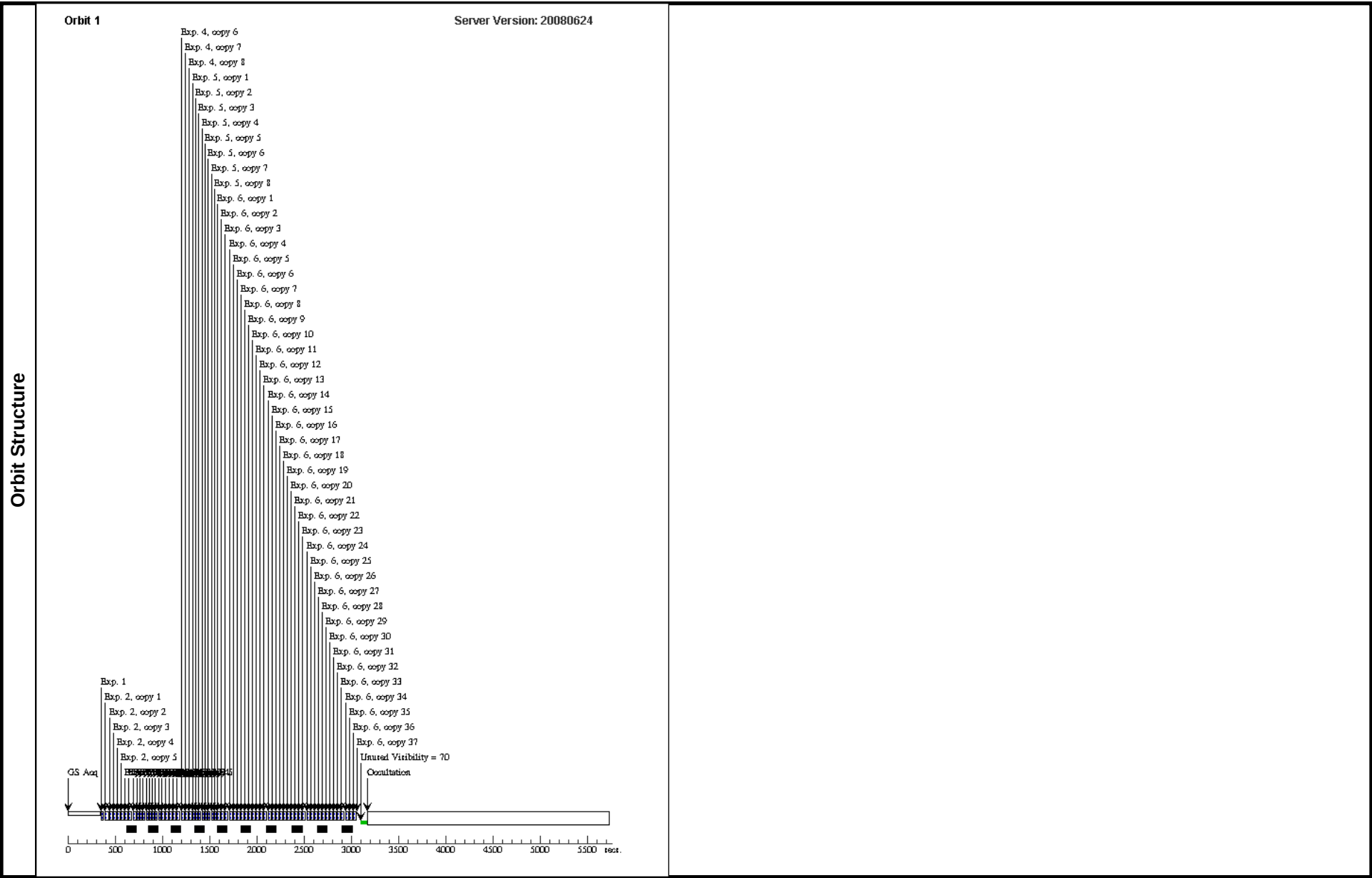
Visit	Proposal 11228, Visit 02, completed										Wed Aug 13 01:15:20 GMT 2008
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	Scientific Instruments: NIC3										
	Special Requirements: SCHED 80%; ORIENT 257.0D TO 257.0 D; BETWEEN 10-DEC-2007:00:00:00 AND 13-DEC-2007:00:00:00; Period 2.615838 D AND ZERO-PHASE HJD2454147.74902										
	Comments: The phase and orient have been set to select the 2007.345 opportunity. A narrow BETWEEN forcing this is also imposed.										
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	XO-2	RA: 07 48 6.9720 (117.0290500d)			Proper Motion RA: -0.00227s/yr		V=11.2+/-0.1		Reference Frame: ICRS	
			Dec: +50 13 18.10 (50.22169d)			Proper Motion Dec: -0.1538"/yr					
			Equinox: J2000			Epoch of Position: 2000					
	Comments: Coordinates supplied are the mean of components A and B that are separated by 31 arcsecs. We will use orient constraints (55% of full range) to keep the first order grism spectra from both stars within the detector field of view.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	F166N	SAMP-SEQ=STEP8 ; NSAMP=6; CAMERA-FOCUS =DEFOCUS	POS TARG 3.9,4.7; PHASE 0.931 TO 0.941		[==>]		[1]
	2		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=9; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]		[1]
	3		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=8; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]		[1]

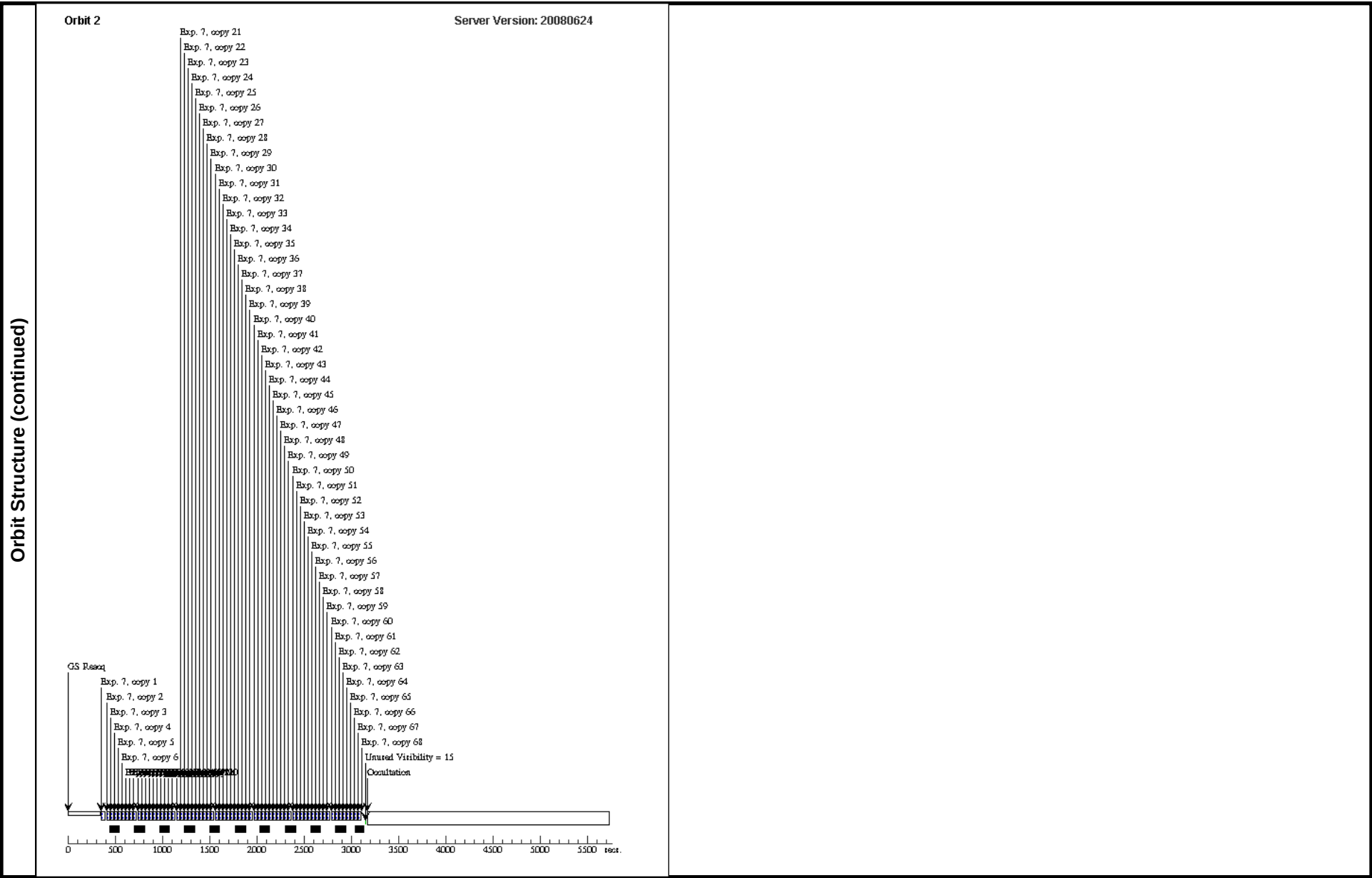
Proposal 11228 - Visit 02 - Extrasolar Planet XO-2b

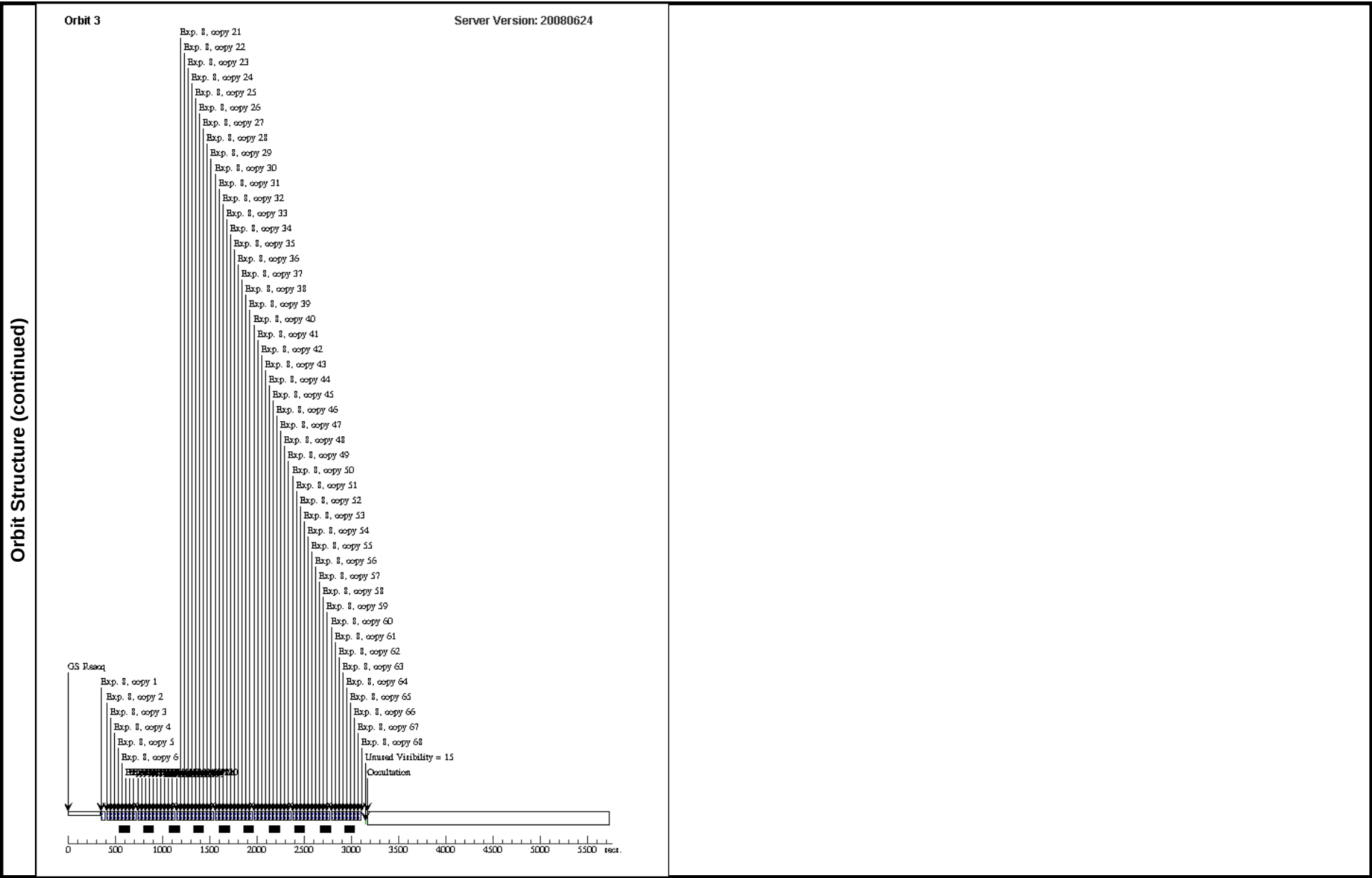
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	4		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=9; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]	[1]
	5		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=8; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]	[1]

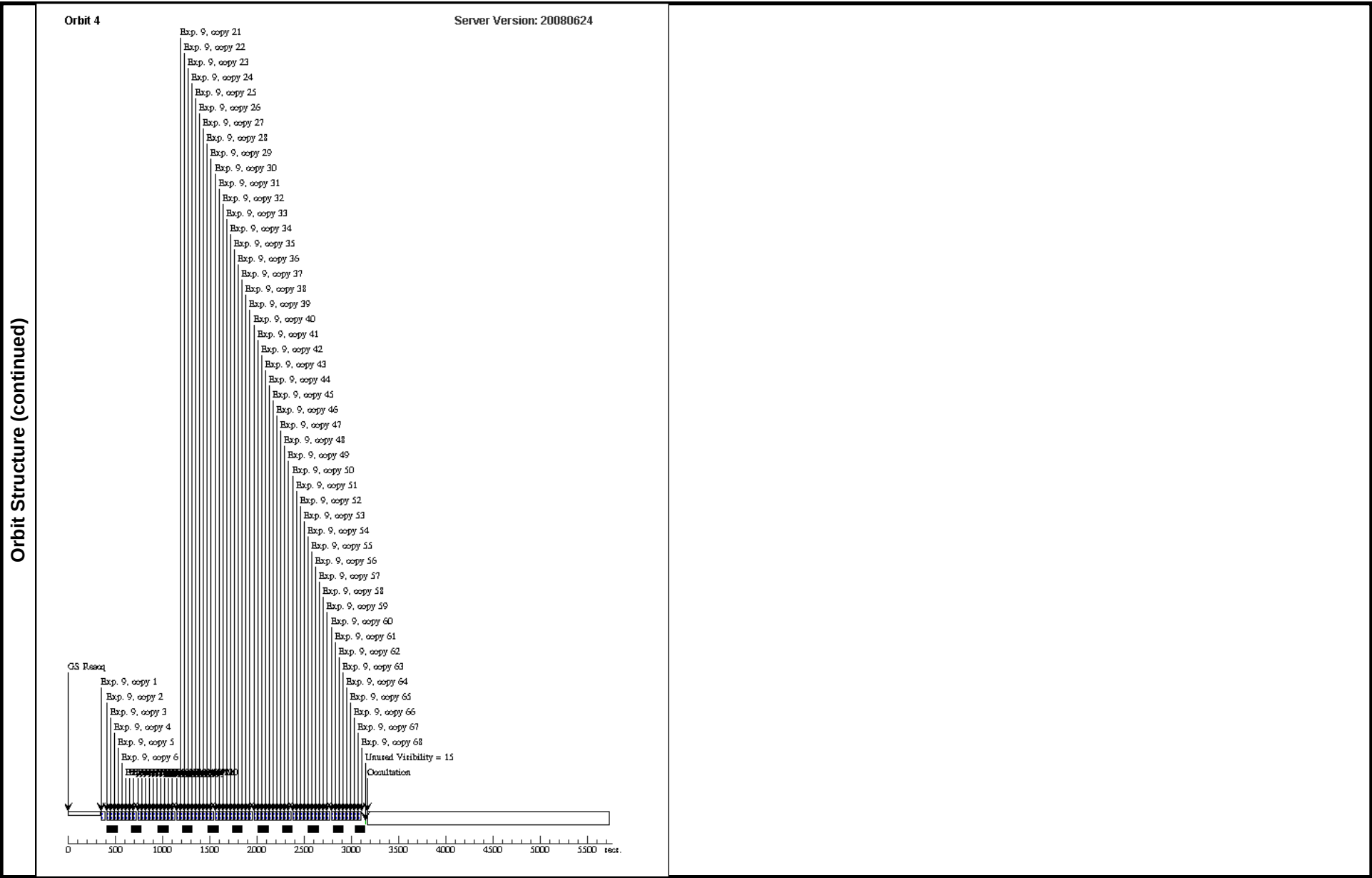
Proposal 11228 - Visit 02 - Extrasolar Planet XO-2b

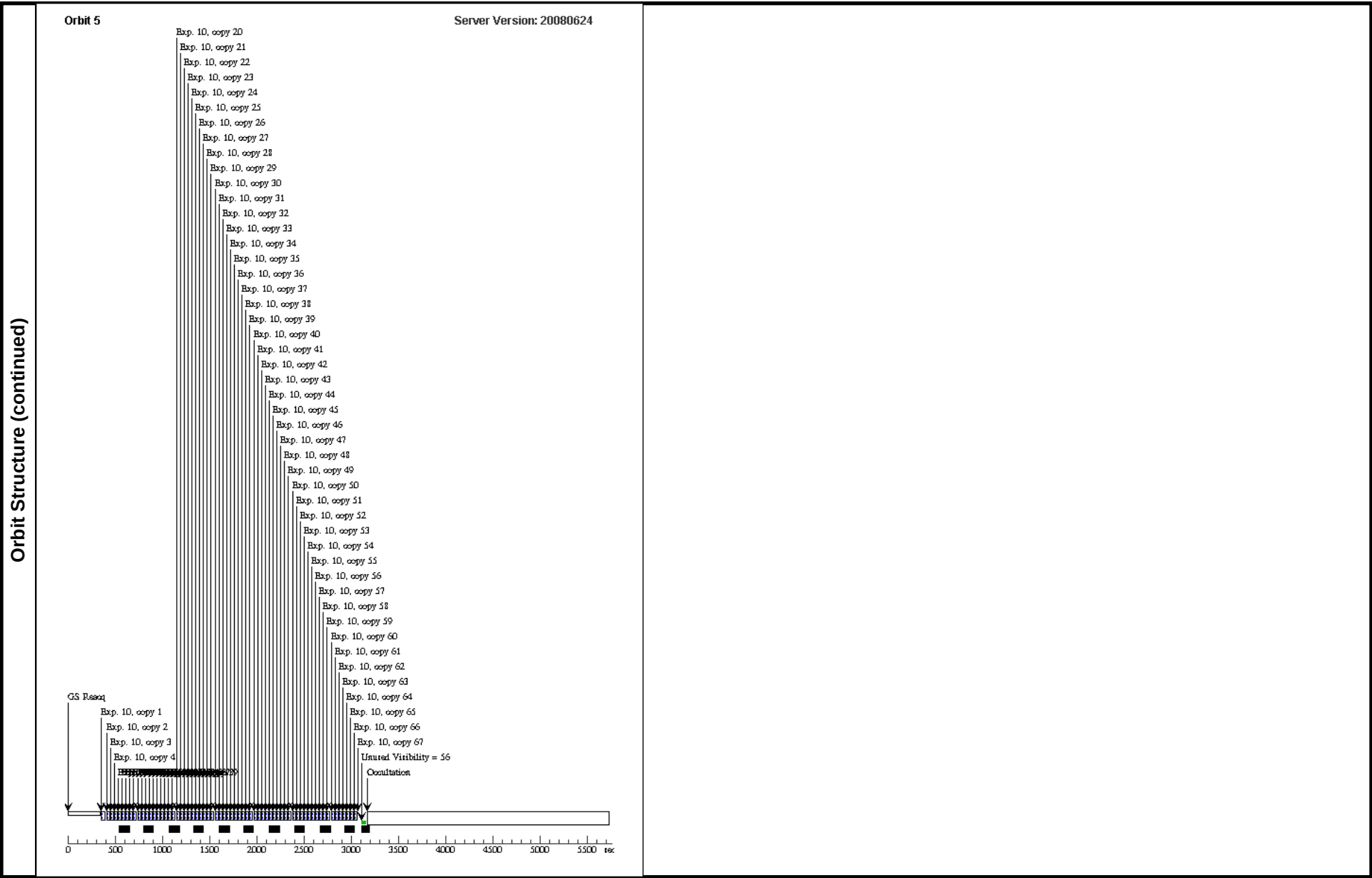
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
Exposures (continued)	6		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=9; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)]		[1]
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Proposal 11228 - Visit 03 - Extrasolar Planet XO-2b

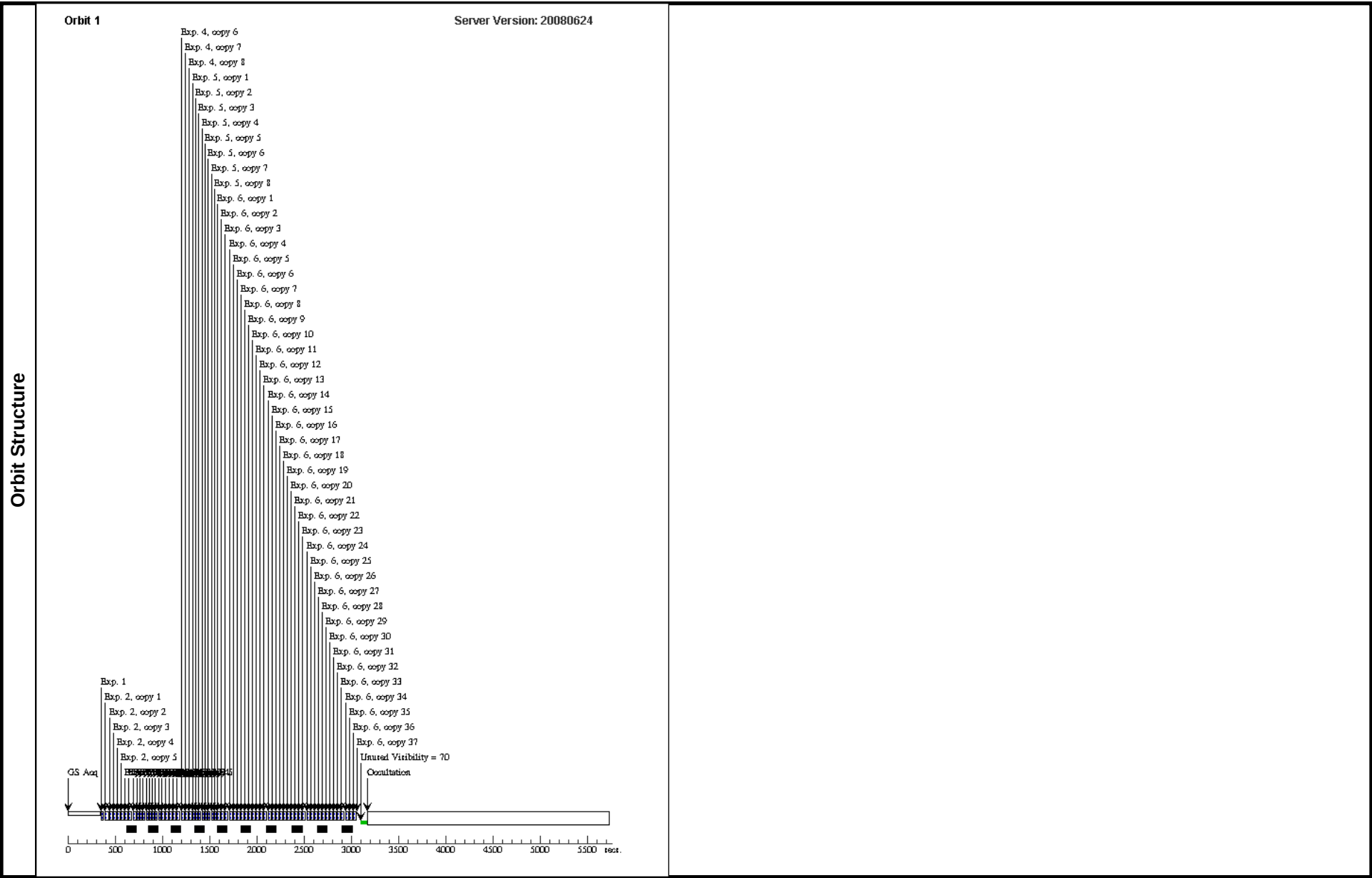
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	Scientific Instruments: NIC3											
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	Comments: The phase and orient have been set to select the 2008.043 opportunity. A narrow BETWEEN has also been set consistent with this.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	XO-2	RA: 07 48 6.9720 (117.0290500d)			Proper Motion RA: -0.00227s/yr		V=11.2+/-0.1		Reference Frame: ICRS		
			Dec: +50 13 18.10 (50.22169d)			Proper Motion Dec: -0.1538"/yr						
			Equinox: J2000			Epoch of Position: 2000						
	Comments: Coordinates supplied are the mean of components A and B that are separated by 31 arcsecs. We will use orient constraints (55% of full range) to keep the first order grism spectra from both stars within the detector field of view.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit	
	1		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	F166N	SAMP-SEQ=STEP8 ; NSAMP=6; CAMERA-FOCUS =DEFOCUS	POS TARG 3.9,-1.9; PHASE 0.915 TO 0.925		[==>]		[1]	
	2		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=9; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]		[1]	
	3		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=8; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]		[1]	

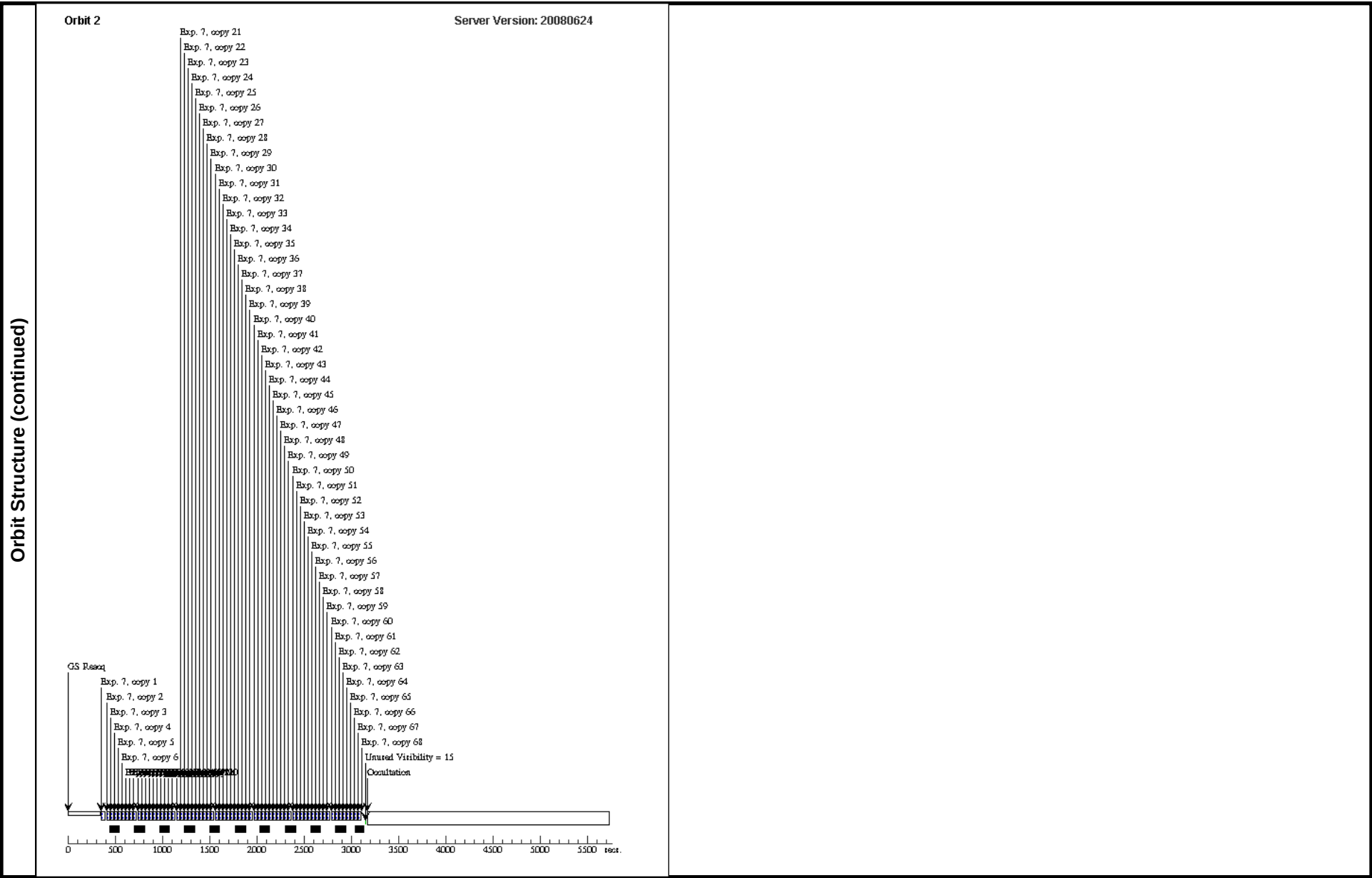
Proposal 11228 - Visit 03 - Extrasolar Planet XO-2b

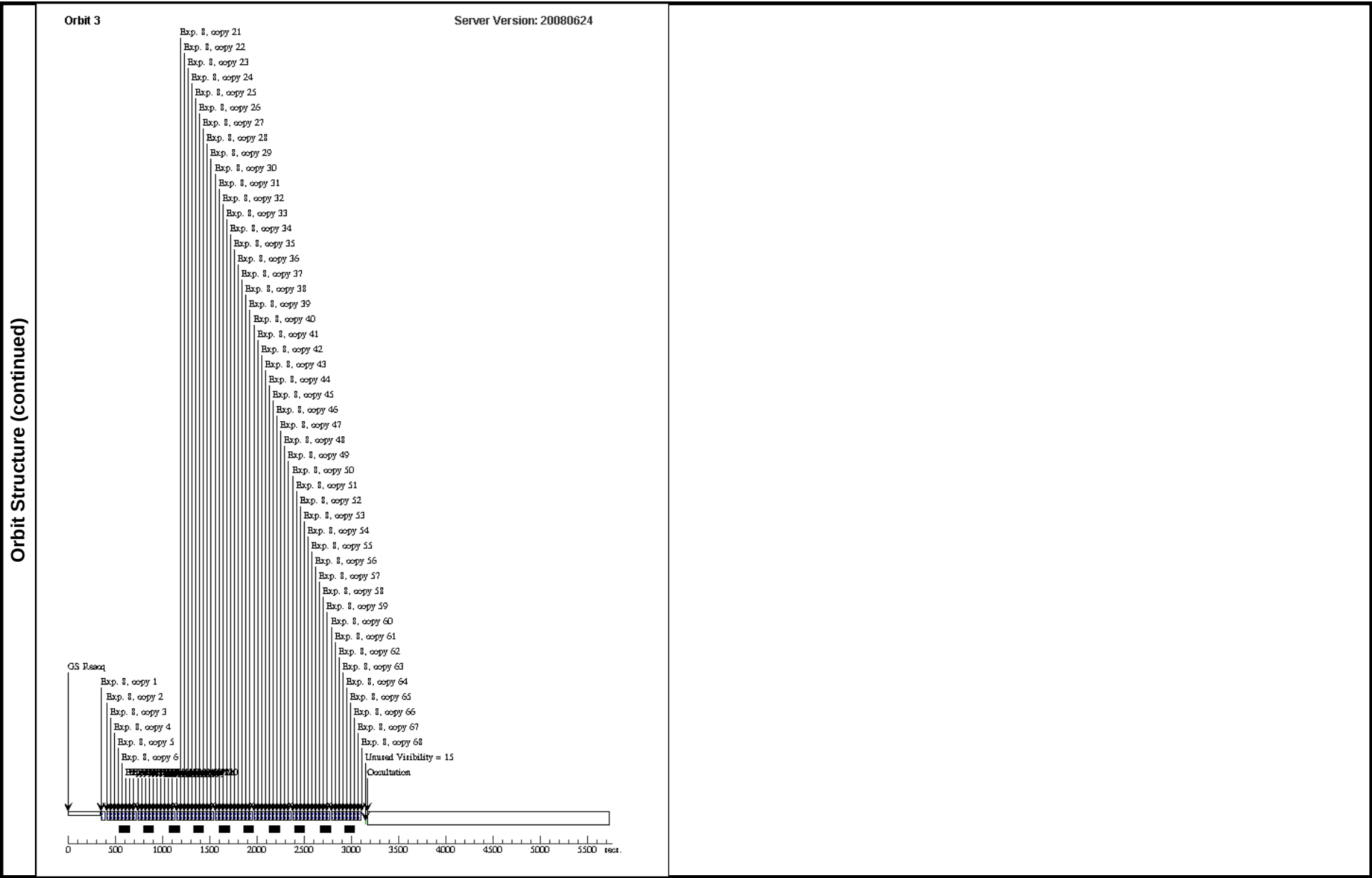
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	4		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=9; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]	[1]
	5		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=8; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]	[1]

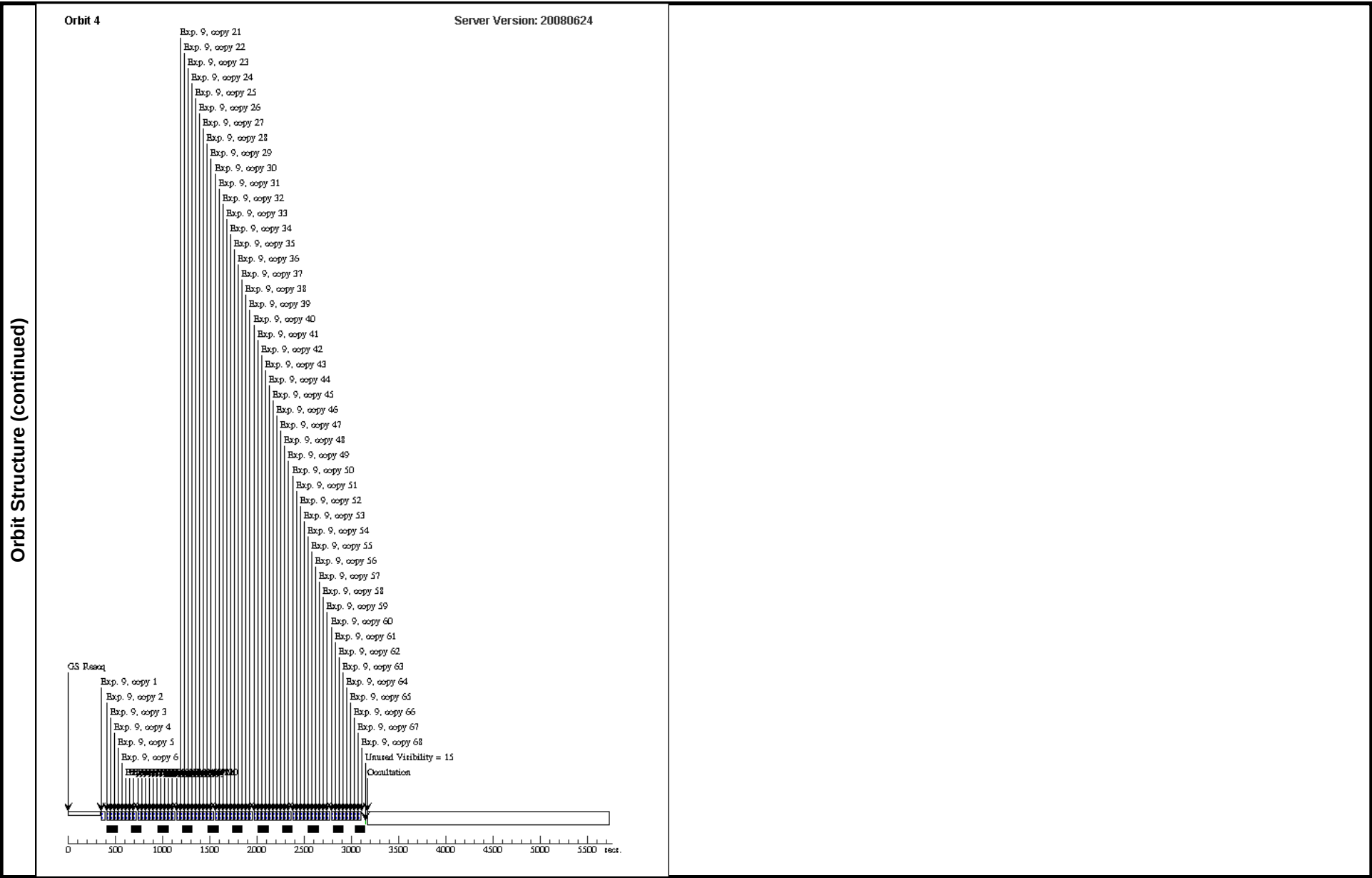
Proposal 11228 - Visit 03 - Extrasolar Planet XO-2b

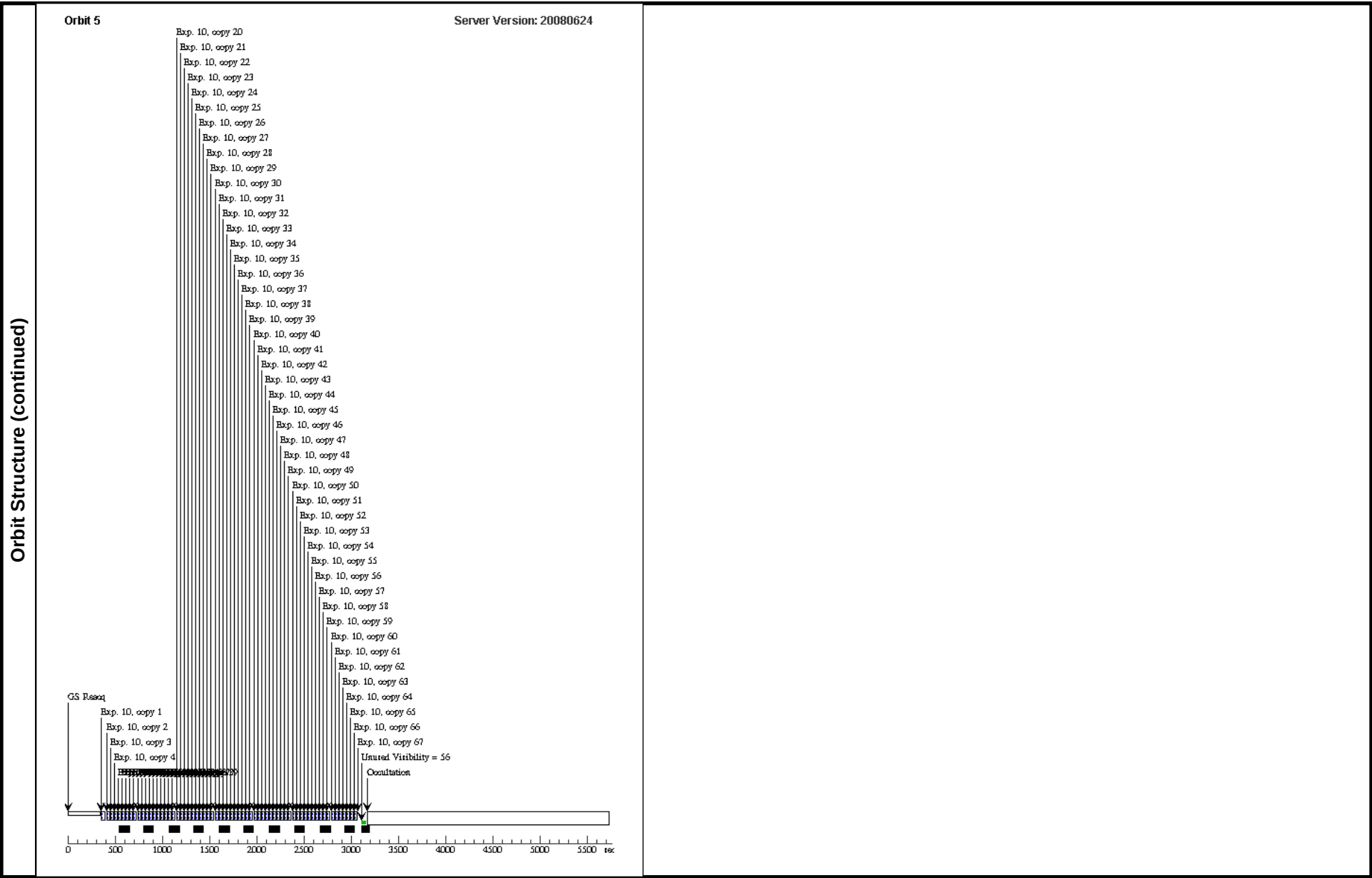
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	6		(1) XO-2	NIC3, MULTIACCUM, NIC3-FIXD	G141	SAMP-SEQ=STEP8 ; NSAMP=9; CAMERA-FOCUS =DEFOCUS	SAME POS AS 1		[==>(Copy 1)]	[1]
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Proposal 11228 - Visit 04 - Extrasolar Planet XO-2b

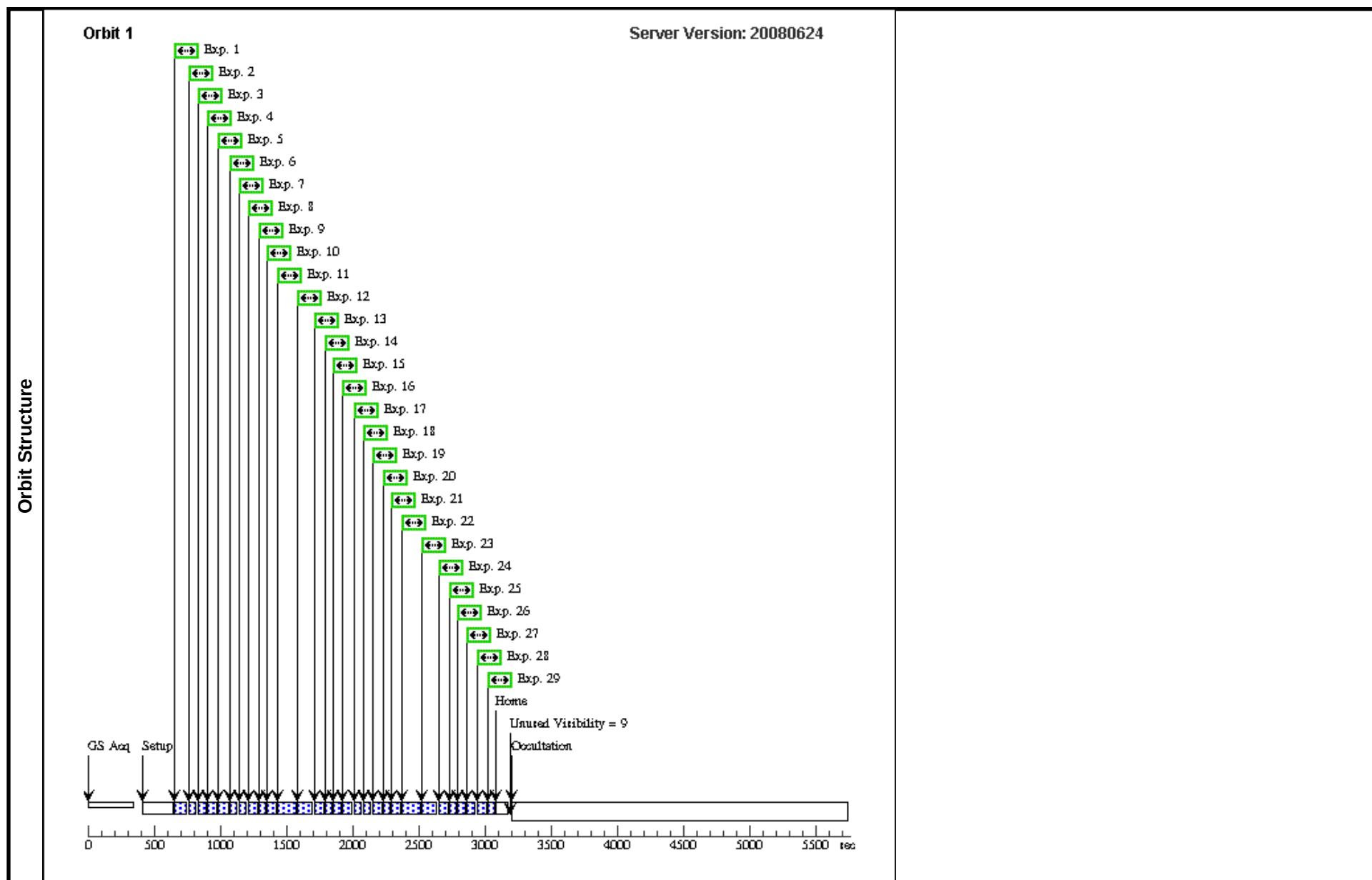
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	Scientific Instruments: FGS					
	Special Requirements: ORIENT 285.0D TO 285.0 D; BETWEEN 10-OCT-2007:00:00:00 AND 22-OCT-2007:00:00:00					
	Comments: Visits 04 through					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	X0-2A Alt Name1: N2302133722	RA: 07 48 6.4680 (117.0269500d) Dec: +50 13 32.93 (50.22581d) Equinox: J2000		V=11.32+/-0.1	Reference Frame: ICRS
	(3)	X0-2B Alt Name1: N2302133726	RA: 07 48 7.4770 (117.0311542d) Dec: +50 13 3.26 (50.21757d) Equinox: J2000		V=11.29+/-0.1	Reference Frame: ICRS
	(4)	X0-2REF1 Alt Name1: N2302133731	RA: 07 47 52.4120 (116.9683833d) Dec: +50 12 41.12 (50.21142d) Equinox: J2000		V=10.23+/-0.1	Reference Frame: ICRS
	(5)	X0-2REF2 Alt Name1: N23021133727	RA: 07 47 47.1230 (116.9463458d) Dec: +50 13 1.63 (50.21712d) Equinox: J2000		V=14.5+/-0.3 B=14.77 R = 13.15	Reference Frame: ICRS
	(6)	X0-2REF3 Alt Name1: N2302133718	RA: 07 47 37.8020 (116.9075083d) Dec: +50 13 59.06 (50.23307d) Equinox: J2000		V=13.7+/-0.3 B=14.14, R=13.09	Reference Frame: ICRS
	(7)	X0-2REF4 Alt Name1: N2302133716	RA: 07 47 35.7360 (116.8989000d) Dec: +50 14 28.36 (50.24121d) Equinox: J2000		V=13.1+/-0.3 B=13.41, R=12.45	Reference Frame: ICRS
	(8)	X0-2REF5 Alt Name1: N2302133714	RA: 07 47 45.1990 (116.9383292d) Dec: +50 14 57.49 (50.24930d) Equinox: J2000		V=12.7+/-0.3 B=12.94, R=11.89	Reference Frame: ICRS
	(9)	X0-2REF6 Alt Name1: N2302133736	RA: 07 48 8.7420 (117.0364250d) Dec: +50 11 40.48 (50.19458d) Equinox: J2000		V=14.2+/-0.4 B=14.6, R=13.38	Reference Frame: ICRS
	(10)	X0-2REF7 Alt Name1: N2302133738	RA: 07 48 26.6070 (117.1108625d) Dec: +50 11 7.84 (50.18551d) Equinox: J2000		V=15.3+/-0.3 B=15.7, R=14.4	Reference Frame: ICRS
	(11)	X0-2REF8 Alt Name1: N2302133720	RA: 07 48 20.9900 (117.0874583d) Dec: +50 13 53.09 (50.23141d) Equinox: J2000		V=14.8+/-0.3 B=15.14, R=14.12	Reference Frame: ICRS

Proposal 11228 - Visit 04 - Extrasolar Planet XO-2b

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
Exposures	1		(2) X0-2A	FGS, POS, 1	F583W		POS TARG 0.0,-30.0	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	2		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	3		(4) X0-2REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	4		(5) X0-2REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	5		(6) X0-2REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	6		(7) X0-2REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	7		(8) X0-2REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	8		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	9		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	10		(9) X0-2REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	11		(10) X0-2REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	12		(11) X0-2REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	13		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	14		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	15		(4) X0-2REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	16		(6) X0-2REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	17		(7) X0-2REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	18		(8) X0-2REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	19		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]

Proposal 11228 - Visit 04 - Extrasolar Planet XO-2b

Exposures (continued)	#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	20		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	21		(9) X0-2REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	22		(10) X0-2REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	23		(11) X0-2REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	24		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	25		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	26		(4) X0-2REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	27		(8) X0-2REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	28		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	29		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]



Proposal 11228 - Visit 05 - Extrasolar Planet XO-2b

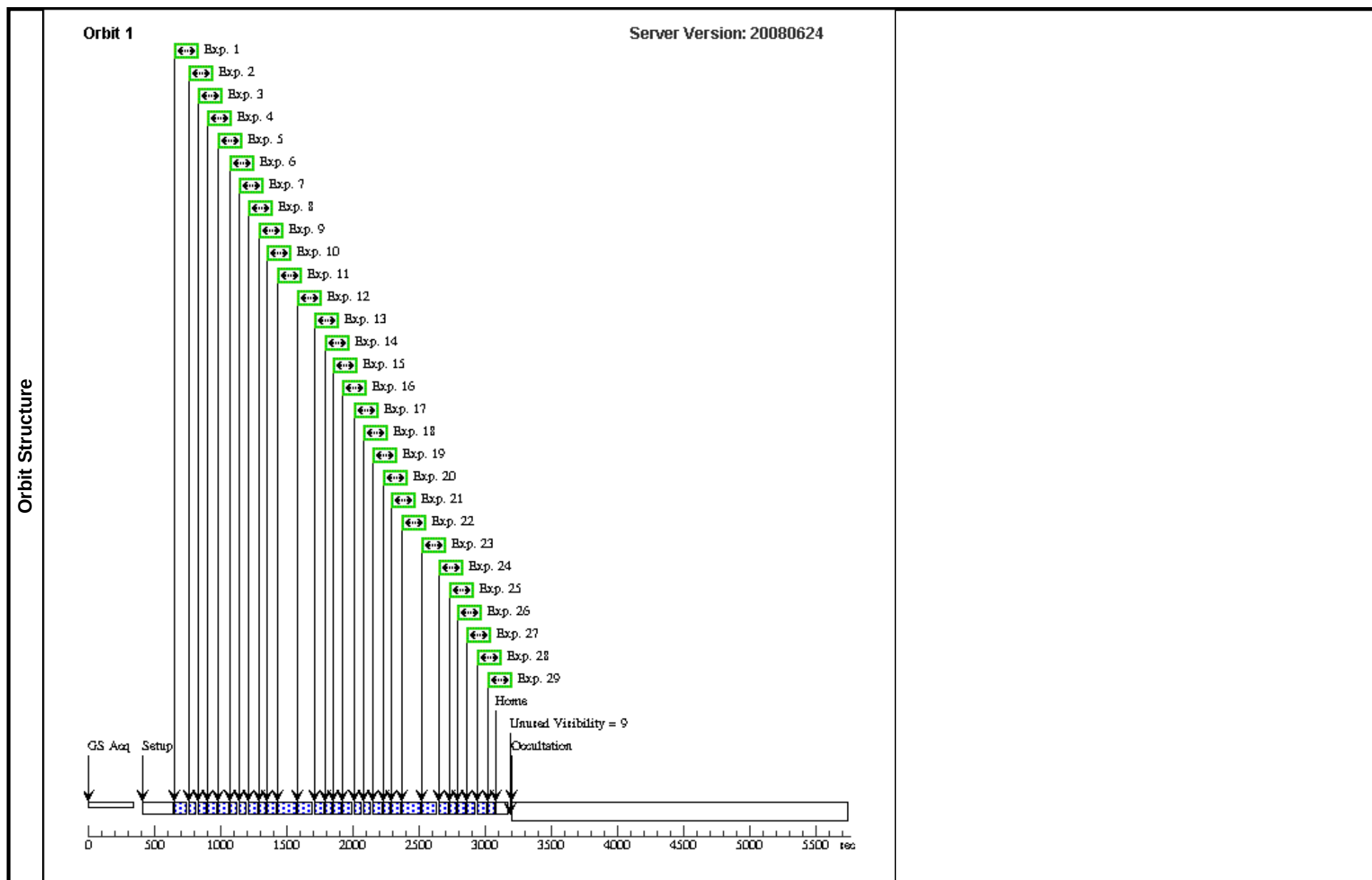
Visit	Proposal 11228, Visit 05, completed					Wed Aug 13 01:15:29 GMT 2008
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: FGS					
	Special Requirements: ORIENT 285.0D TO 285.0 D; BETWEEN 14-OCT-2007:00:00:00 AND 22-OCT-2007:00:00:00					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	X0-2A Alt Name1: N2302133722	RA: 07 48 6.4680 (117.0269500d) Dec: +50 13 32.93 (50.22581d) Equinox: J2000		V=11.32+/-0.1	Reference Frame: ICRS
	(3)	X0-2B Alt Name1: N2302133726	RA: 07 48 7.4770 (117.0311542d) Dec: +50 13 3.26 (50.21757d) Equinox: J2000		V=11.29+/-0.1	Reference Frame: ICRS
	(4)	X0-2REF1 Alt Name1: N2302133731	RA: 07 47 52.4120 (116.9683833d) Dec: +50 12 41.12 (50.21142d) Equinox: J2000		V=10.23+/-0.1	Reference Frame: ICRS
	(5)	X0-2REF2 Alt Name1: N23021133727	RA: 07 47 47.1230 (116.9463458d) Dec: +50 13 1.63 (50.21712d) Equinox: J2000		V=14.5+/-0.3 B=14.77 R = 13.15	Reference Frame: ICRS
	(6)	X0-2REF3 Alt Name1: N2302133718	RA: 07 47 37.8020 (116.9075083d) Dec: +50 13 59.06 (50.23307d) Equinox: J2000		V=13.7+/-0.3 B=14.14, R=13.09	Reference Frame: ICRS
	(7)	X0-2REF4 Alt Name1: N2302133716	RA: 07 47 35.7360 (116.8989000d) Dec: +50 14 28.36 (50.24121d) Equinox: J2000		V=13.1+/-0.3 B=13.41, R=12.45	Reference Frame: ICRS
	(8)	X0-2REF5 Alt Name1: N2302133714	RA: 07 47 45.1990 (116.9383292d) Dec: +50 14 57.49 (50.24930d) Equinox: J2000		V=12.7+/-0.3 B=12.94, R=11.89	Reference Frame: ICRS
	(9)	X0-2REF6 Alt Name1: N2302133736	RA: 07 48 8.7420 (117.0364250d) Dec: +50 11 40.48 (50.19458d) Equinox: J2000		V=14.2+/-0.4 B=14.6, R=13.38	Reference Frame: ICRS
	(10)	X0-2REF7 Alt Name1: N2302133738	RA: 07 48 26.6070 (117.1108625d) Dec: +50 11 7.84 (50.18551d) Equinox: J2000		V=15.3+/-0.3 B=15.7, R=14.4	Reference Frame: ICRS
	(11)	X0-2REF8 Alt Name1: N2302133720	RA: 07 48 20.9900 (117.0874583d) Dec: +50 13 53.09 (50.23141d) Equinox: J2000		V=14.8+/-0.3 B=15.14, R=14.12	Reference Frame: ICRS

Proposal 11228 - Visit 05 - Extrasolar Planet XO-2b

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
Exposures	1		(2) X0-2A	FGS, POS, 1	F583W		POS TARG 0.0,-30.0	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	2		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	3		(4) X0-2REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	4		(5) X0-2REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	5		(6) X0-2REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	6		(7) X0-2REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	7		(8) X0-2REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	8		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	9		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	10		(9) X0-2REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	11		(10) X0-2REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	12		(11) X0-2REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	13		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	14		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	15		(4) X0-2REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	16		(6) X0-2REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	17		(7) X0-2REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	18		(8) X0-2REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]
	19		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	[==>]	[1]

Proposal 11228 - Visit 05 - Extrasolar Planet XO-2b

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	20		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	21		(9) X0-2REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	22		(10) X0-2REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	23		(11) X0-2REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	24		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	25		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	26		(4) X0-2REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	27		(8) X0-2REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	28		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	29		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]



Proposal 11228 - Visit 06 - Extrasolar Planet XO-2b

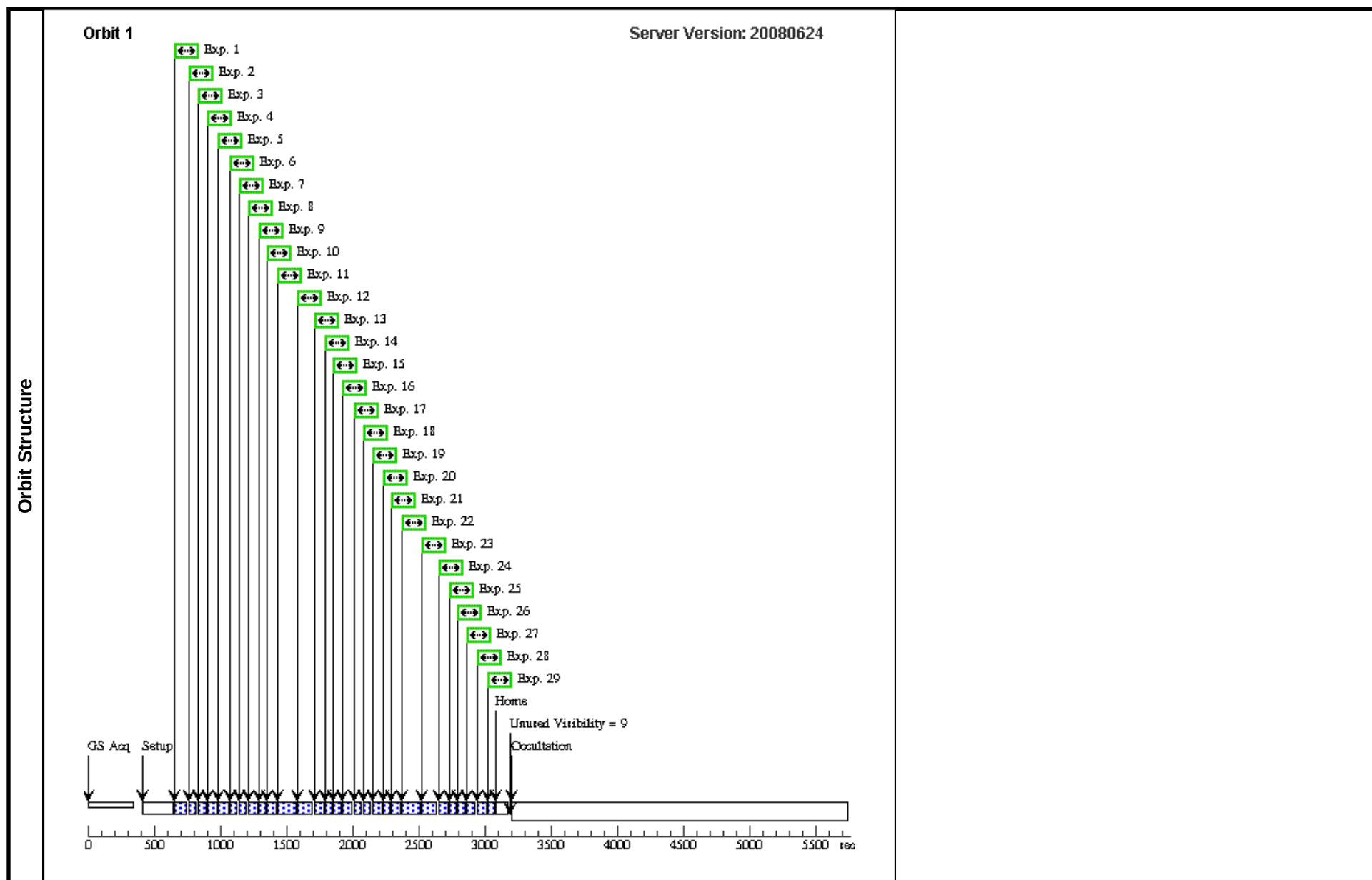
Visit	Proposal 11228, Visit 06, implementation					Wed Aug 13 01:15:31 GMT 2008
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: FGS					
	Special Requirements: ORIENT 285.0D TO 285.0 D; BETWEEN 27-SEP-2008:00:00:00 AND 02-OCT-2008:00:00:00					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	X0-2A Alt Name1: N2302133722	RA: 07 48 6.4680 (117.0269500d) Dec: +50 13 32.93 (50.22581d) Equinox: J2000		V=11.32+/-0.1	Reference Frame: ICRS
	(3)	X0-2B Alt Name1: N2302133726	RA: 07 48 7.4770 (117.0311542d) Dec: +50 13 3.26 (50.21757d) Equinox: J2000		V=11.29+/-0.1	Reference Frame: ICRS
	(4)	X0-2REF1 Alt Name1: N2302133731	RA: 07 47 52.4120 (116.9683833d) Dec: +50 12 41.12 (50.21142d) Equinox: J2000		V=10.23+/-0.1	Reference Frame: ICRS
	(5)	X0-2REF2 Alt Name1: N23021133727	RA: 07 47 47.1230 (116.9463458d) Dec: +50 13 1.63 (50.21712d) Equinox: J2000		V=14.5+/-0.3 B=14.77 R = 13.15	Reference Frame: ICRS
	(6)	X0-2REF3 Alt Name1: N2302133718	RA: 07 47 37.8020 (116.9075083d) Dec: +50 13 59.06 (50.23307d) Equinox: J2000		V=13.7+/-0.3 B=14.14, R=13.09	Reference Frame: ICRS
	(7)	X0-2REF4 Alt Name1: N2302133716	RA: 07 47 35.7360 (116.8989000d) Dec: +50 14 28.36 (50.24121d) Equinox: J2000		V=13.1+/-0.3 B=13.41, R=12.45	Reference Frame: ICRS
	(8)	X0-2REF5 Alt Name1: N2302133714	RA: 07 47 45.1990 (116.9383292d) Dec: +50 14 57.49 (50.24930d) Equinox: J2000		V=12.7+/-0.3 B=12.94, R=11.89	Reference Frame: ICRS
	(9)	X0-2REF6 Alt Name1: N2302133736	RA: 07 48 8.7420 (117.0364250d) Dec: +50 11 40.48 (50.19458d) Equinox: J2000		V=14.2+/-0.4 B=14.6, R=13.38	Reference Frame: ICRS
	(10)	X0-2REF7 Alt Name1: N2302133738	RA: 07 48 26.6070 (117.1108625d) Dec: +50 11 7.84 (50.18551d) Equinox: J2000		V=15.3+/-0.3 B=15.7, R=14.4	Reference Frame: ICRS
	(11)	X0-2REF8 Alt Name1: N2302133720	RA: 07 48 20.9900 (117.0874583d) Dec: +50 13 53.09 (50.23141d) Equinox: J2000		V=14.8+/-0.3 B=15.14, R=14.12	Reference Frame: ICRS

Proposal 11228 - Visit 06 - Extrasolar Planet XO-2b

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) X0-2A	FGS, POS, 1	F583W		POS TARG 0.0,-30.0; GS ACQ SCENARIO BASE1T3	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	2		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	3		(4) X0-2REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	4		(5) X0-2REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	5		(6) X0-2REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	6		(7) X0-2REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	7		(8) X0-2REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	8		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	9		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	10		(9) X0-2REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	11		(10) X0-2REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	12		(11) X0-2REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	13		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	14		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	15		(4) X0-2REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	16		(6) X0-2REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	17		(7) X0-2REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	18		(8) X0-2REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]

Proposal 11228 - Visit 06 - Extrasolar Planet XO-2b

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	19	(2) X0-2A	FGS, POS, 1		F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	20	(3) X0-2B	FGS, POS, 1		F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	21	(9) X0-2REF6	FGS, POS, 1		F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	22	(10) X0-2REF7	FGS, POS, 1		F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	23	(11) X0-2REF8	FGS, POS, 1		F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	24	(2) X0-2A	FGS, POS, 1		F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	25	(3) X0-2B	FGS, POS, 1		F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	26	(4) X0-2REF1	FGS, POS, 1		F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	27	(8) X0-2REF5	FGS, POS, 1		F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	28	(3) X0-2B	FGS, POS, 1		F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]
	29	(2) X0-2A	FGS, POS, 1		F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs	
									[==>]	[1]



Proposal 11228 - Visit 07 - Extrasolar Planet XO-2b

Visit	Proposal 11228, Visit 07, implementation					Wed Aug 13 01:15:32 GMT 2008
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: FGS					
	Special Requirements: ORIENT 285.0D TO 285.0 D; BETWEEN 27-SEP-2008:00:00:00 AND 02-OCT-2008:00:00:00					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	X0-2A Alt Name1: N2302133722	RA: 07 48 6.4680 (117.0269500d) Dec: +50 13 32.93 (50.22581d) Equinox: J2000		V=11.32+/-0.1	Reference Frame: ICRS
	(3)	X0-2B Alt Name1: N2302133726	RA: 07 48 7.4770 (117.0311542d) Dec: +50 13 3.26 (50.21757d) Equinox: J2000		V=11.29+/-0.1	Reference Frame: ICRS
	(4)	X0-2REF1 Alt Name1: N2302133731	RA: 07 47 52.4120 (116.9683833d) Dec: +50 12 41.12 (50.21142d) Equinox: J2000		V=10.23+/-0.1	Reference Frame: ICRS
	(5)	X0-2REF2 Alt Name1: N23021133727	RA: 07 47 47.1230 (116.9463458d) Dec: +50 13 1.63 (50.21712d) Equinox: J2000		V=14.5+/-0.3 B=14.77 R = 13.15	Reference Frame: ICRS
	(6)	X0-2REF3 Alt Name1: N2302133718	RA: 07 47 37.8020 (116.9075083d) Dec: +50 13 59.06 (50.23307d) Equinox: J2000		V=13.7+/-0.3 B=14.14, R=13.09	Reference Frame: ICRS
	(7)	X0-2REF4 Alt Name1: N2302133716	RA: 07 47 35.7360 (116.8989000d) Dec: +50 14 28.36 (50.24121d) Equinox: J2000		V=13.1+/-0.3 B=13.41, R=12.45	Reference Frame: ICRS
	(8)	X0-2REF5 Alt Name1: N2302133714	RA: 07 47 45.1990 (116.9383292d) Dec: +50 14 57.49 (50.24930d) Equinox: J2000		V=12.7+/-0.3 B=12.94, R=11.89	Reference Frame: ICRS
	(9)	X0-2REF6 Alt Name1: N2302133736	RA: 07 48 8.7420 (117.0364250d) Dec: +50 11 40.48 (50.19458d) Equinox: J2000		V=14.2+/-0.4 B=14.6, R=13.38	Reference Frame: ICRS
	(10)	X0-2REF7 Alt Name1: N2302133738	RA: 07 48 26.6070 (117.1108625d) Dec: +50 11 7.84 (50.18551d) Equinox: J2000		V=15.3+/-0.3 B=15.7, R=14.4	Reference Frame: ICRS
	(11)	X0-2REF8 Alt Name1: N2302133720	RA: 07 48 20.9900 (117.0874583d) Dec: +50 13 53.09 (50.23141d) Equinox: J2000		V=14.8+/-0.3 B=15.14, R=14.12	Reference Frame: ICRS

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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) X0-2A	FGS, POS, 1	F583W		POS TARG 0.0,-30.0; GS ACQ SCENARIO BASE1T3	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	2		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	3		(4) X0-2REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	4		(5) X0-2REF2	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	5		(6) X0-2REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	6		(7) X0-2REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	7		(8) X0-2REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	8		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	9		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	10		(9) X0-2REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	11		(10) X0-2REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	12		(11) X0-2REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	13		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	14		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	15		(4) X0-2REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	16		(6) X0-2REF3	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	17		(7) X0-2REF4	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	18		(8) X0-2REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 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
	19		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	20		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	21		(9) X0-2REF6	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	22		(10) X0-2REF7	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	23		(11) X0-2REF8	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	24		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	25		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	26		(4) X0-2REF1	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	27		(8) X0-2REF5	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	28		(3) X0-2B	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]
	29		(2) X0-2A	FGS, POS, 1	F583W		SAME POS AS 1	Sequence 1-29 Non-Int	10.0 Secs [==>]	[1]

