



14060 - A huge ULX bubble in NGC 5585

Cycle: 23, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) NGC5585-ULX	WFC3/IR WFC3/UVIS	5	29-Apr-2015 21:27:32.0	yes

5 Total Orbits Used

ABSTRACT

Accreting black holes release their power through radiation and/or jets. We have discovered an ultraluminous X-ray source (ULX) in the nearby galaxy NGC 5585, surrounded by a large (diameter ~ 300 pc) ionized nebula. We propose a joint XMM-Newton and HST study of this source. With XMM-Newton, we will determine the radiative power of the ULX, its spectral and time variability properties, and constrain its mass. With HST, we will image the nebula, determine whether it is a jet-inflated ULX bubble, measure its kinetic power and source age, and search for an optical counterpart to the black hole.

OBSERVING DESCRIPTION

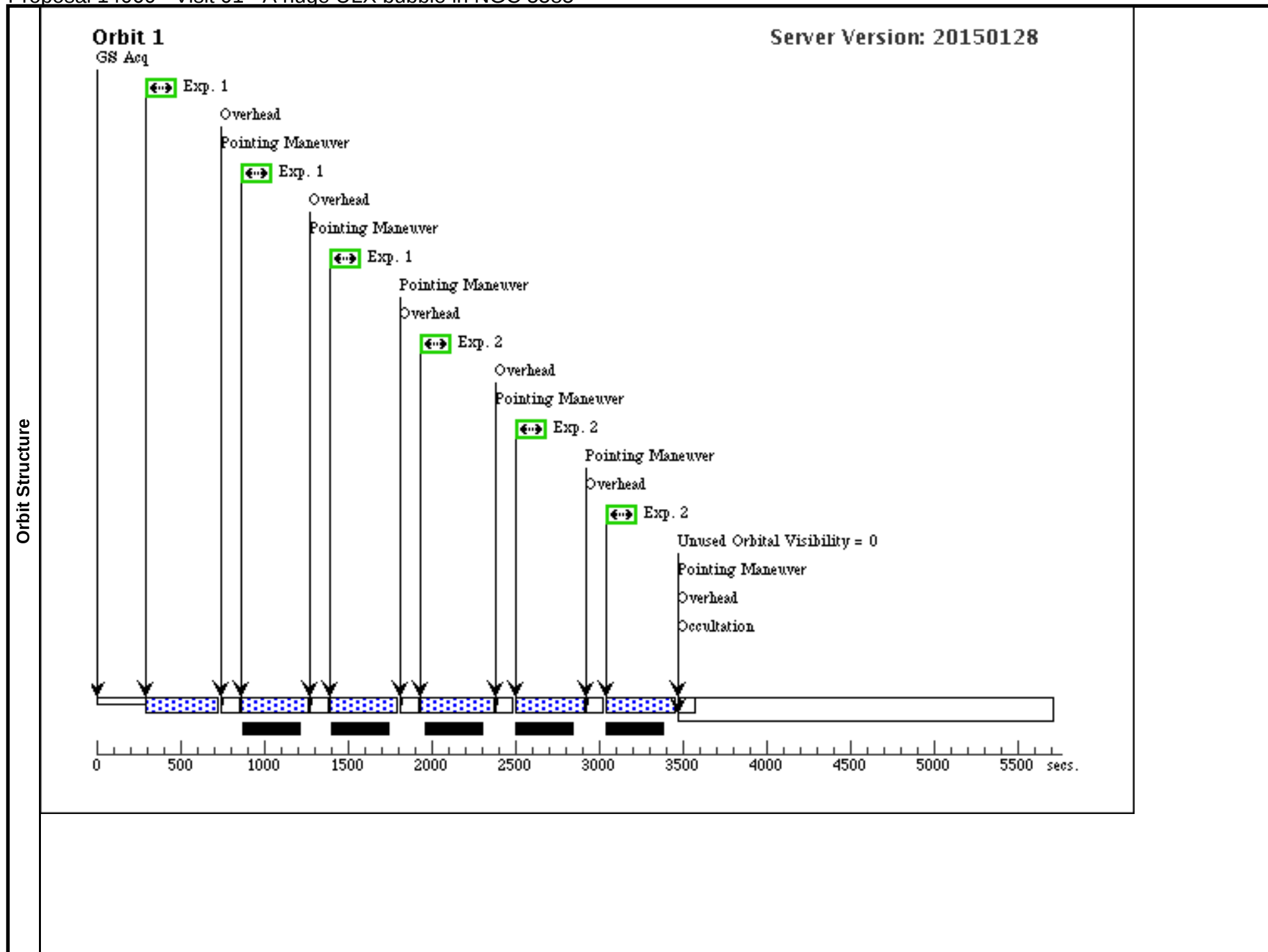
TBD

Proposal 14060 - Visit 01 - A huge ULX bubble in NGC 5585

Visit	Proposal 14060, Visit 01, implementation Thu Apr 30 01:27:34 GMT 2015				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ORIENT 0D TO 20 D; ORIENT 65D TO 205 D; ORIENT 250D TO 359 D				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (2), (3), (4), (5), (6)
	(2)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.605 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false			(7), (8)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(1)	NGC5585-ULX	RA: 14 19 39.4000 (214.9141667d) Dec: +56 41 37.70 (56.69381d) Equinox: J2000		V=25+/-0.5 Halp α + [NII] = 2e-14 erg/cm2/s
		Miscellaneous			
		Reference Frame: ICRS			

Proposal 14060 - Visit 01 - A huge ULX bubble in NGC 5585

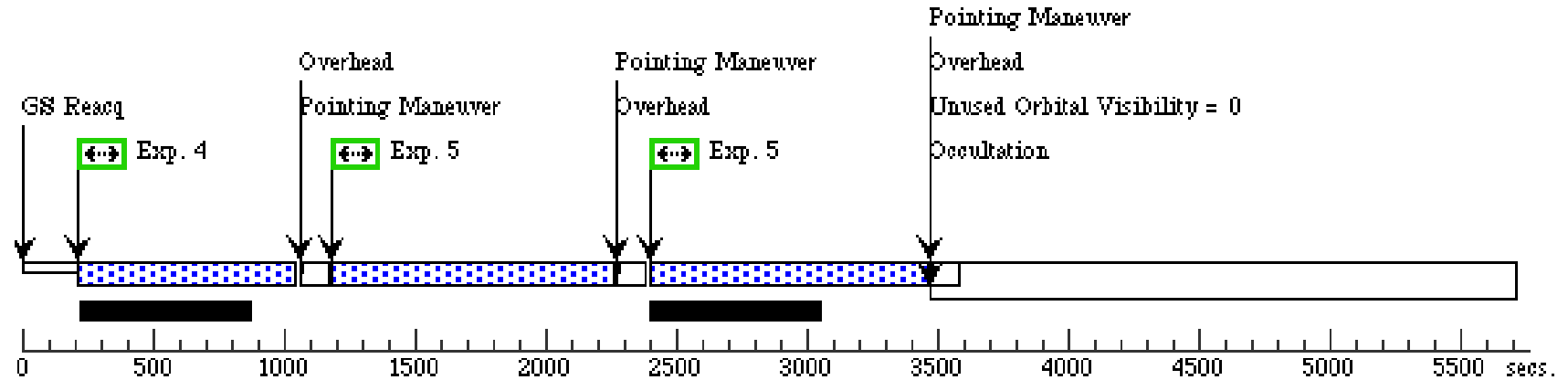
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) NGC5585-ULX	WFC3/UVIS, ACCUM, UVIS2	F336W	FLASH=11	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 i n Visit 01 (1)	400 Secs (1200 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2		(1) NGC5585-ULX	WFC3/UVIS, ACCUM, UVIS2	F555W			Pattern 1, Exps 2-2 i n Visit 01 (1)	400 Secs (1245 Secs) [==>415.0 Secs (Pattern 1)] [==>415.0 Secs (Pattern 2)] [==>415.0 Secs (Pattern 3)]	[1]
	3		(1) NGC5585-ULX	WFC3/UVIS, ACCUM, UVIS2	F814W			Pattern 1, Exps 3-3 i n Visit 01 (1)	450 Secs (1350 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	4		(1) NGC5585-ULX	WFC3/UVIS, ACCUM, UVIS2	F673N	FLASH=10		Pattern 1, Exps 4-4 i n Visit 01 (1)	570 Secs (2185 Secs) [==>675.0 Secs (Pattern 1)] [==>677.0 Secs (Pattern 2)] [==>833.0 Secs (Pattern 3)]	[2] [3]
	5		(1) NGC5585-ULX	WFC3/UVIS, ACCUM, UVIS2	F657N	FLASH=10		Pattern 1, Exps 5-5 i n Visit 01 (1)	800 Secs (2916 Secs) [==>1058.0 Secs (Pattern 1)] [==>1058.0 Secs (Pattern 2)] [==>(Pattern 3)]	[3] [4]
	6		(1) NGC5585-ULX	WFC3/UVIS, ACCUM, UVIS2	F502N	FLASH=10		Pattern 1, Exps 6-6 i n Visit 01 (1)	650 Secs (2012 Secs) [==>671.0 Secs (Pattern 1)] [==>671.0 Secs (Pattern 2)] [==>670.0 Secs (Pattern 3)]	[4]
	7		(1) NGC5585-ULX	WFC3/IR, MULTIACCUM, IR	F164N	NSAMP=12; SAMP-SEQ=SPAR S50		Pattern 2, Exps 7-7 i n Visit 01 (2)	552.937252 Secs (1658.812 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[5]
	8		(1) NGC5585-ULX	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=9; SAMP-SEQ=SPAR S50		Pattern 2, Exps 8-8 i n Visit 01 (2)	402.935899 Secs (1208.808 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[5]





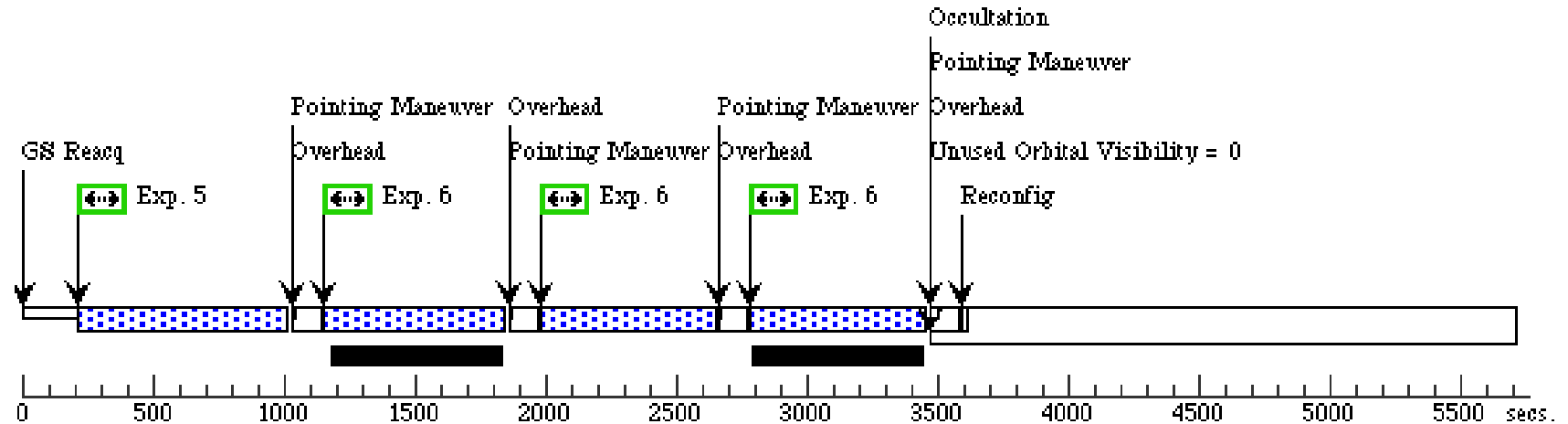
Orbit 3

Server Version: 20150128



Orbit 4

Server Version: 20150128



Orbit 5

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