



## 12525 - Giant Ionized Clouds Around Local AGN - Obscuration and History

Cycle: 19, 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	(2) UGC-7342	ACS/WFC	2	19-Aug-2011 21:27:04.0	yes
08	(2) UGC-7342	WFC3/UVIS	1	19-Aug-2011 21:27:09.0	yes
02	(1) SDSS143029.88+133912.0	ACS/WFC WFC3/UVIS	3	19-Aug-2011 21:27:15.0	yes
03	(3) SDSS220141.64+115124.3	WFC3/UVIS	3	19-Aug-2011 21:27:21.0	yes
04	(4) SDSS151004.01+074037.1	ACS/WFC WFC3/UVIS	3	19-Aug-2011 21:27:29.0	yes
05	(5) NGC-5972	ACS/WFC	1	19-Aug-2011 21:27:33.0	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	(6) UGC-11185	ACS/WFC WFC3/UVIS	3	19-Aug-2011 21:27:38.0	yes
07	(7) MKN-1498	ACS/WFC WFC3/UVIS	3	19-Aug-2011 21:27:45.0	yes
09	(5) NGC-5972	WFC3/UVIS	2	19-Aug-2011 21:27:50.0	yes

21 Total Orbits Used

### **ABSTRACT**

We propose emission-line and continuum imaging of a set of giant ionized clouds around nearby AGN, most newly identified by the Galaxy Zoo project. These are selected to be most likely to show fading of the AGN over times  $<100,000$  years, based on energy balance arguments. The images can show signatures of fading based on recombination timescales, and evidence of additional outflow from the AGN shown in triggered star formation and morphology of gas features. These objects are smaller counterparts of the giant nebulosity Hanny's Voorwerp, where the AGN must have faded by 1000x within 200,000 years, and could help shed light on hitherto inaccessible timescales in AGN. In particular, results on Hanny's Voorwerp lead us to speculate that the fading has been accompanied by increased kinetic energy output ("mode switching"), which we can likewise seek in these less energetic counterparts.

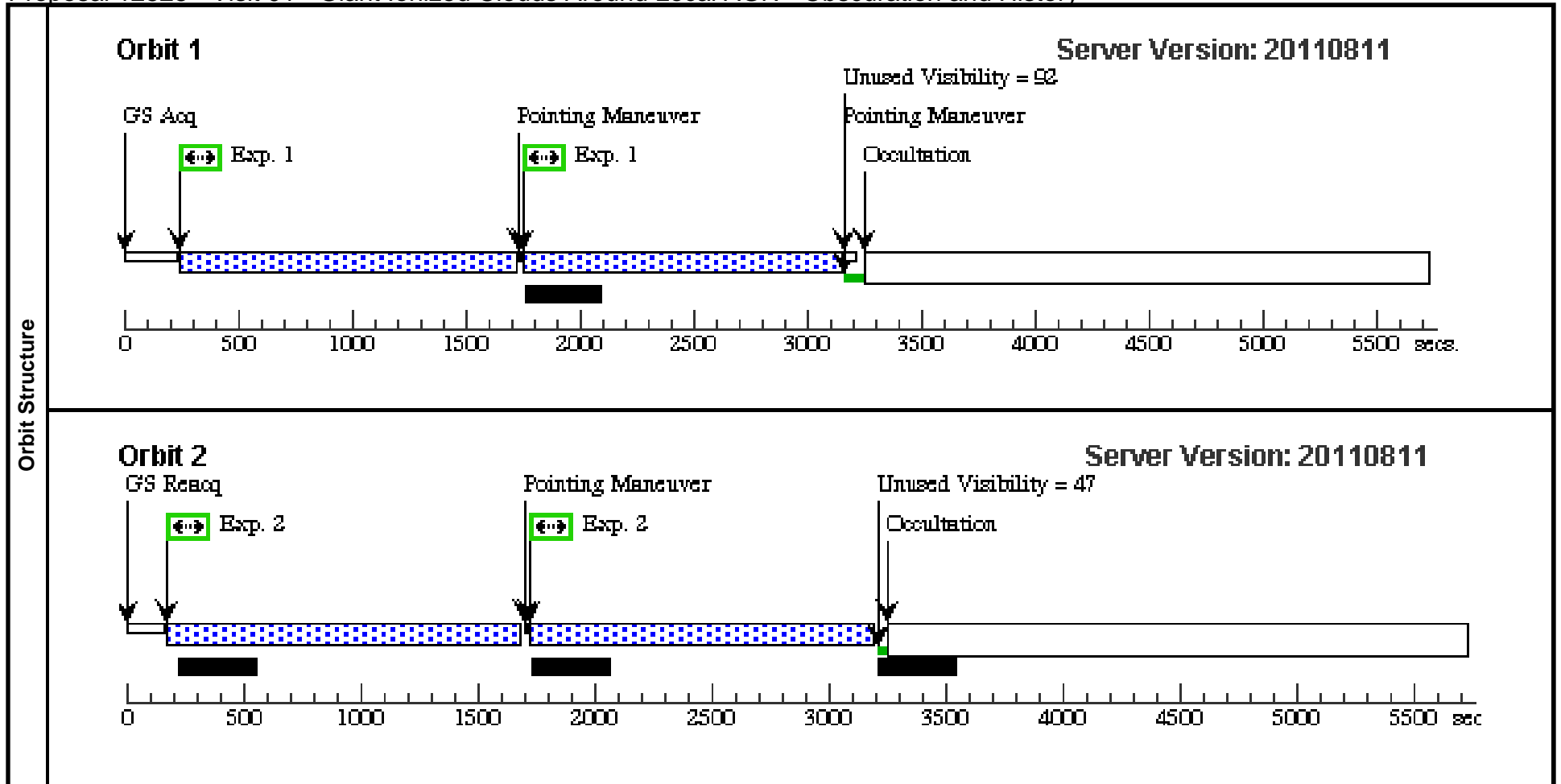
### **OBSERVING DESCRIPTION**

We will trace the intensity and ionization structure of giant ( $R > 10$  kpc) nebulae found around AGN by the Galaxy Zoo project; our sample includes those for which the nuclear luminosity fails to account for the ionization of the extended clouds, indicating that the AGN has faded over the relevant light-travel times (30,000-100,000 years). Images include WFC3 medium-band continuum images near 6000 and 7500 Å, and narrowband images covering redshifted [O III] and H-alpha. For this we use WFC3 filters where an appropriate one exists, and ACS ramp-filter imaging otherwise. Each exposure has a 2-position dither to allow drizzle reconstruction; we will use the STScI CTE routines to mitigate the effects of cosmic-ray damage on charge transfer, especially for the ACS.

Proposal 12525 - Visit 01 - Giant Ionized Clouds Around Local AGN - Obscuration and History

Sat Aug 20 01:27:54 GMT 2011

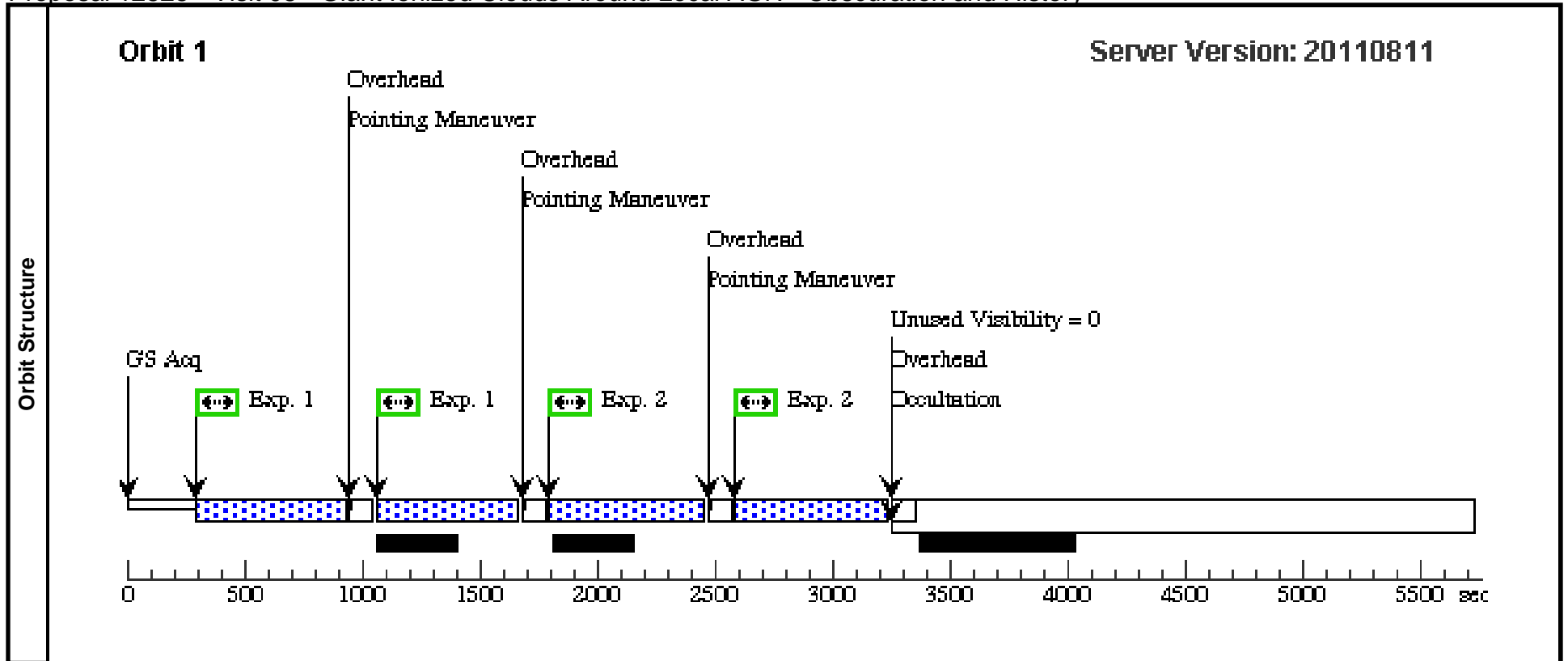
<b>Visit</b>	<b>Proposal 12525, Visit 01, implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 70.0D TO 90.0 D; ORIENT 250.0D TO 270.0 D <i>Comments: Narrowband ramp imaging of extended ionized clouds around UGC 7342. Known emission regions fill most of the 40x80" monochromatic field, so there are fairly tight orientation restrictions. To improve schedulability around busy Nov 2011- May 2012 period, the accompanying broadband continuum images are broken into a separate 1-orbit visit with no orientation constraints.</i>									
	<b>Diagnosics</b> (UGC 7342 H-alpha (01.001)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (Exposure 2 (Pattern 1, Exps 2-2 in Visit 01)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>		<b>Secondary Pattern</b>	<b>Exposures</b>					
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false		(1), (2)					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(2)	UGC-7342	RA: 12 18 19.3000 (184.5804167d) Dec: +29 15 13.00 (29.25361d) Equinox: J2000	Redshift: 0.0477	V=14.3	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	UGC 7342 H-alpha	(2) UGC-7342	ACS/WFC, ACCUM, WFC1-IRAMP	FR716N 6876.0 A		POS TARG 1.17730 447976769,1.576528 6235644833; GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 i n Visit 01 (1)	1200 Secs [=>1273.0 Secs (Pattern 1)] [=>1273.0 Secs (Pattern 2)]	[1]
2		(2) UGC-7342	ACS/WFC, ACCUM, WFC2-MRAMP	FR505N 5246.0 A				Pattern 1, Exps 2-2 i n Visit 01 (1)	1200 Secs [=>1350.0 Secs (Pattern 1)] [=>1350.0 Secs (Pattern 2)]	[2]



Proposal 12525 - Visit 08 - Giant Ionized Clouds Around Local AGN - Obscuration and History

Sat Aug 20 01:27:55 GMT 2011

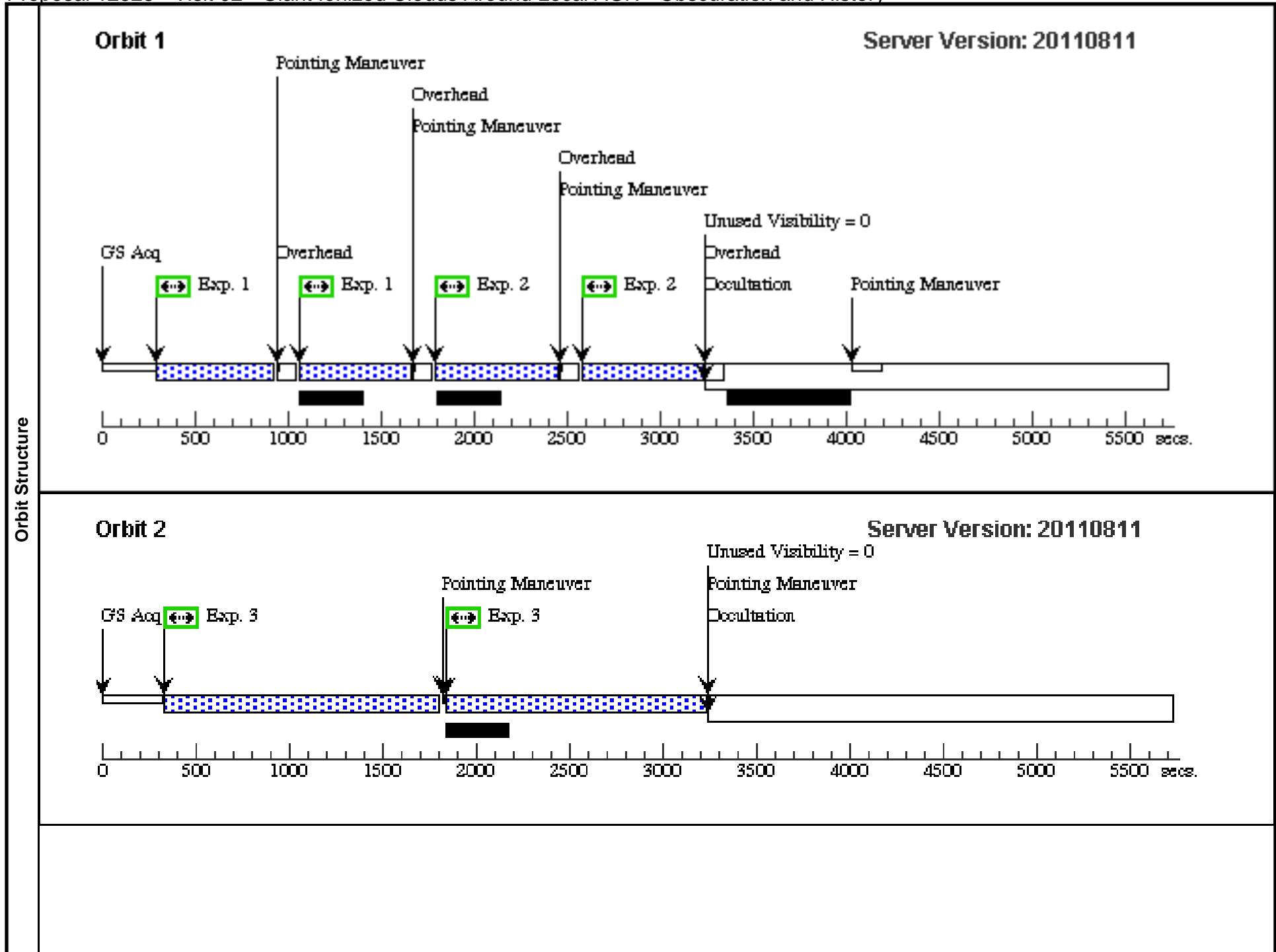
<b>Visit</b>	<b>Proposal 12525, Visit 08, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none) <i>Comments: Continuum images to match visit 1 narrowband images.</i>									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>					
	(2)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1), (2)					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(2)	UGC-7342	RA: 12 18 19.3000 (184.5804167d) Dec: +29 15 13.00 (29.25361d) Equinox: J2000	Redshift: 0.0477	V=14.3	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	UGC 7342 r ed continuum	(2) UGC-7342	WFC3/UVIS, ACCUM, UVIS1-FIX	F763M			Pattern 2, Exps 1-1 i n Visit 08 (2)	600 Secs [=>606.0 Secs (Pattern 1)] [=>606.0 Secs (Pattern 2)]	[1]
	2	UGC 7342 g reen continuum	(2) UGC-7342	WFC3/UVIS, ACCUM, UVIS1-FIX	F621M			Pattern 2, Exps 2-2 i n Visit 08 (2)	650 Secs [=>656.0 Secs (Pattern 1)] [=>656.0 Secs (Pattern 2)]	[1]

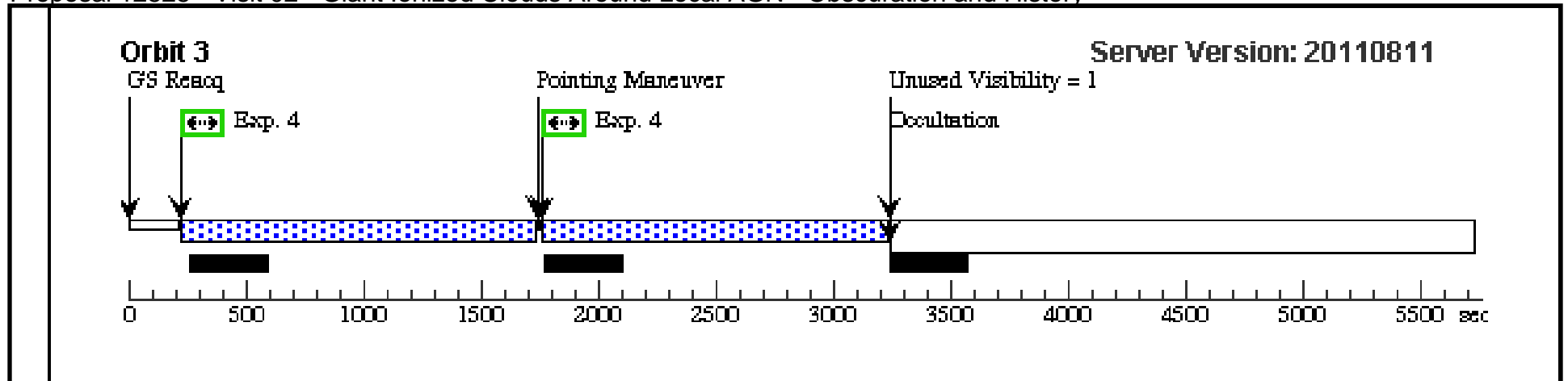


Proposal 12525 - Visit 02 - Giant Ionized Clouds Around Local AGN - Obscuration and History

Sat Aug 20 01:27:56 GMT 2011

<b>Visit</b>	<b>Proposal 12525, Visit 02, implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none) <i>Comments: Continuum and emission-line images of the Teacup AGN and its 5-kpc loop of ionized gas. The target is small, so there are no orientation constraints.</i>									
	(Teacup AGN H-alpha (02.003)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (Teacup AGN [O III] (02.004)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
<b>Diagnosics</b>										
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>		<b>Secondary Pattern</b>	<b>Exposures</b>					
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false		(3), (4)					
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1), (2)						
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	SDSS143029.88+133912.0	RA: 14 30 29.8800 (217.6245000d) Dec: +13 39 12.00 (13.65333d) Equinox: J2000		V=15.7	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	Teacup AGN red continuum	(1) SDSS143029.88 +133912.0	WFC3/UVIS, ACCUM, UVIS2-FIX	F763M			Pattern 2, Exps 1-1 in Visit 02 (2)	600 Secs [=>603.0 Secs (Pattern 1)] [=>603.0 Secs (Pattern 2)]	[1]
	2	Teacup AGN green continuum	(1) SDSS143029.88 +133912.0	WFC3/UVIS, ACCUM, UVIS2-FIX	F621M			Pattern 2, Exps 2-2 in Visit 02 (2)	650 Secs [=>653.0 Secs (Pattern 1)] [=>653.0 Secs (Pattern 2)]	[1]
	3	Teacup AGN H-alpha	(1) SDSS143029.88 +133912.0	ACS/WFC, ACCUM, WFC1-IRAMP	FR716N 7122.0 A			Pattern 1, Exps 3-3 in Visit 02 (1)	1200 Secs [=>1267.0 Secs (Pattern 1)] [=>1267.0 Secs (Pattern 2)]	[2]
4	Teacup AGN [O III]	(1) SDSS143029.88 +133912.0	ACS/WFC, ACCUM, WFC1-IRAMP	FR551N 5434.0 A			Pattern 1, Exps 4-4 in Visit 02 (1)	1200 Secs [=>1344.0 Secs (Pattern 1)] [=>1344.0 Secs (Pattern 2)]	[3]	

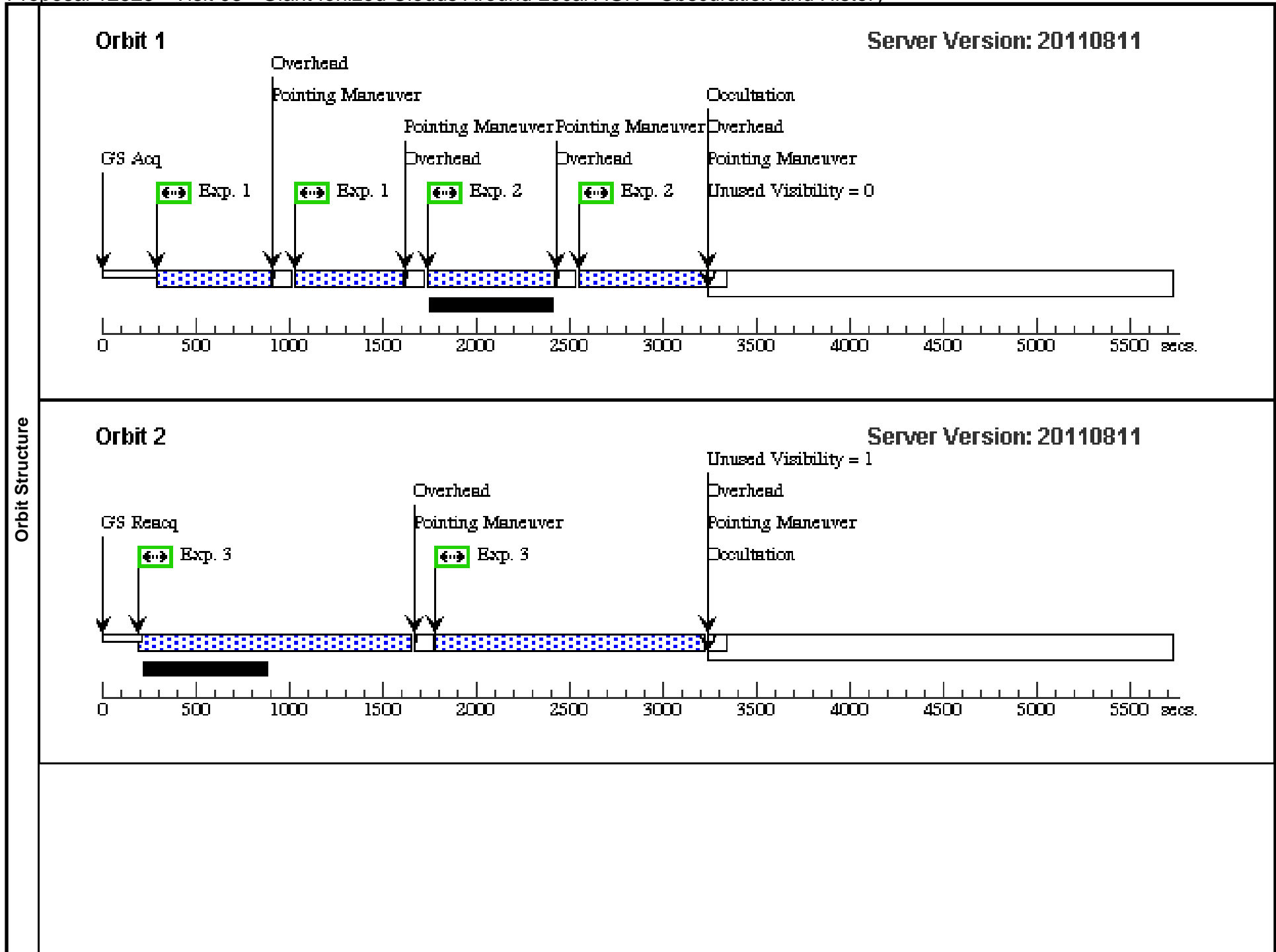


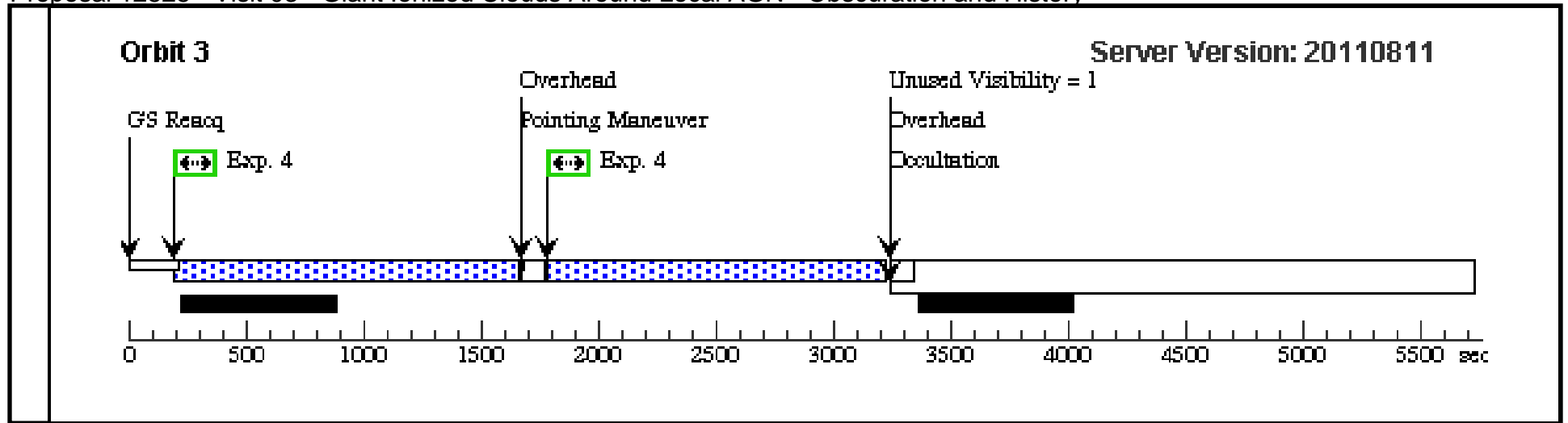


Proposal 12525 - Visit 03 - Giant Ionized Clouds Around Local AGN - Obscuration and History

Sat Aug 20 01:27:57 GMT 2011

<b>Visit</b>	<b>Proposal 12525, Visit 03, implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none) <i>Comments: Continuum and emission-line images of newly discovered AGN SDSS2201+11. No orientation constraints.</i>									
	<b>Diagnosics</b> (SDSS2201+11 [O III] (03.003)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>	
	(2)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1), (2), (3), (4)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>		
	(3)	SDSS220141.64+115124.3	RA: 22 01 41.6400 (330.4235000d) Dec: +11 51 24.30 (11.85675d) Equinox: J2000				V=14.7	Reference Frame: ICRS		
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	SDSS 2201+11 red continuum	(3) SDSS220141.64+115124.3	WFC3/UVIS, ACCUM, UVIS1-FIX	F763M			Pattern 2, Exps 1-1 in Visit 03 (2)	550 Secs [=>578.0 Secs (Pattern 1)] [=>578.0 Secs (Pattern 2)]	[1]
	2	SDDSS 2201+11 green continuum	(3) SDSS220141.64+115124.3	WFC3/UVIS, ACCUM, UVIS1-FIX	F621M			Pattern 2, Exps 2-2 in Visit 03 (2)	650 Secs [=>678.0 Secs (Pattern 1)] [=>678.0 Secs (Pattern 2)]	[1]
	3	SDSS2201+11 [O III]	(3) SDSS220141.64+115124.3	WFC3/UVIS, ACCUM, UVIS-QUAD	FQ508N			Pattern 2, Exps 3-3 in Visit 03 (2)	1300 Secs [=>1443.0 Secs (Pattern 1)] [=>1443.0 Secs (Pattern 2)]	[2]
	4	SDSS 2201+11 H-alpha	(3) SDSS220141.64+115124.3	WFC3/UVIS, ACCUM, UVIS1-FIX	F673N			Pattern 2, Exps 4-4 in Visit 03 (2)	1300 Secs [=>1443.0 Secs (Pattern 1)] [=>1443.0 Secs (Pattern 2)]	[3]

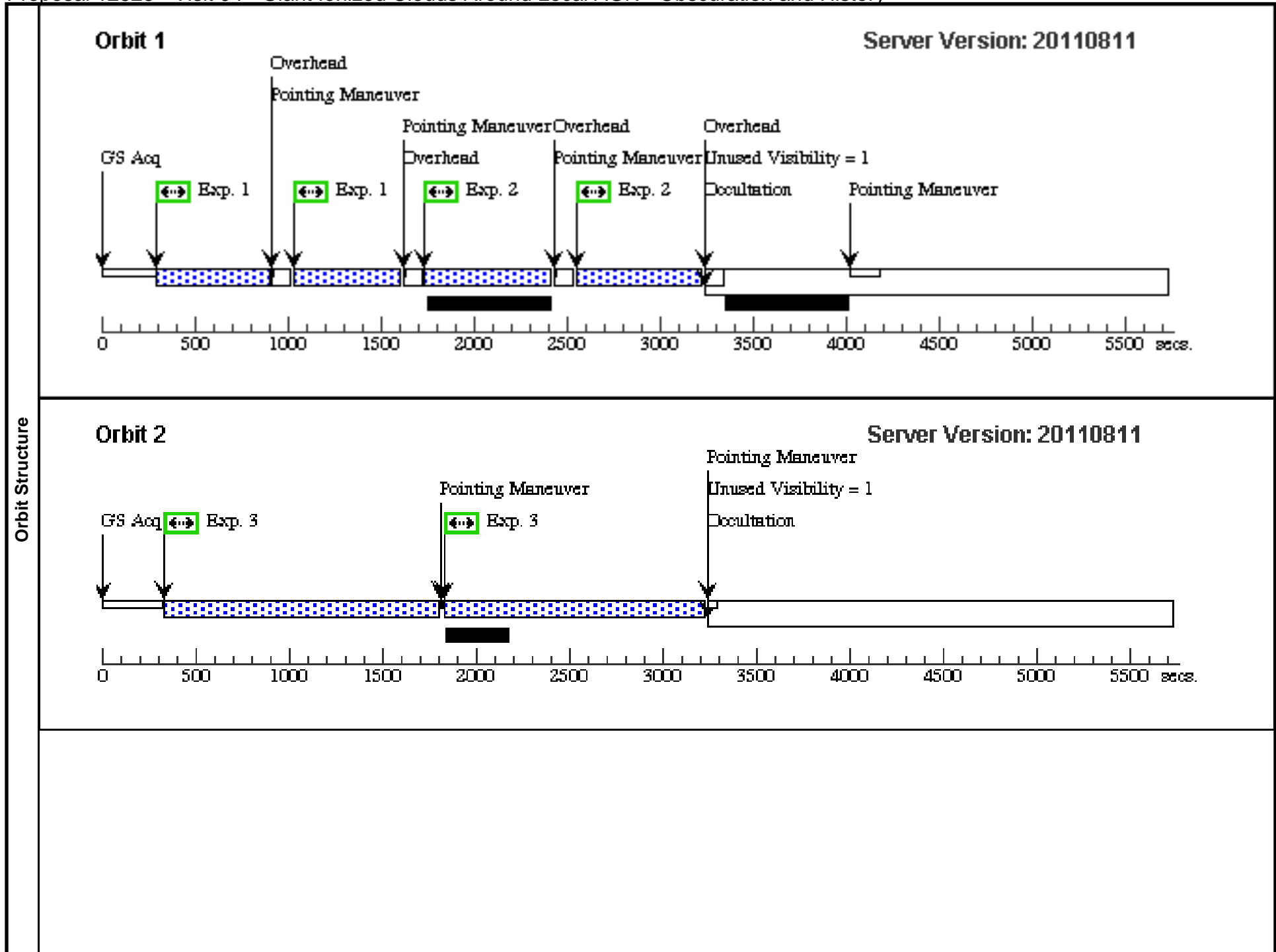


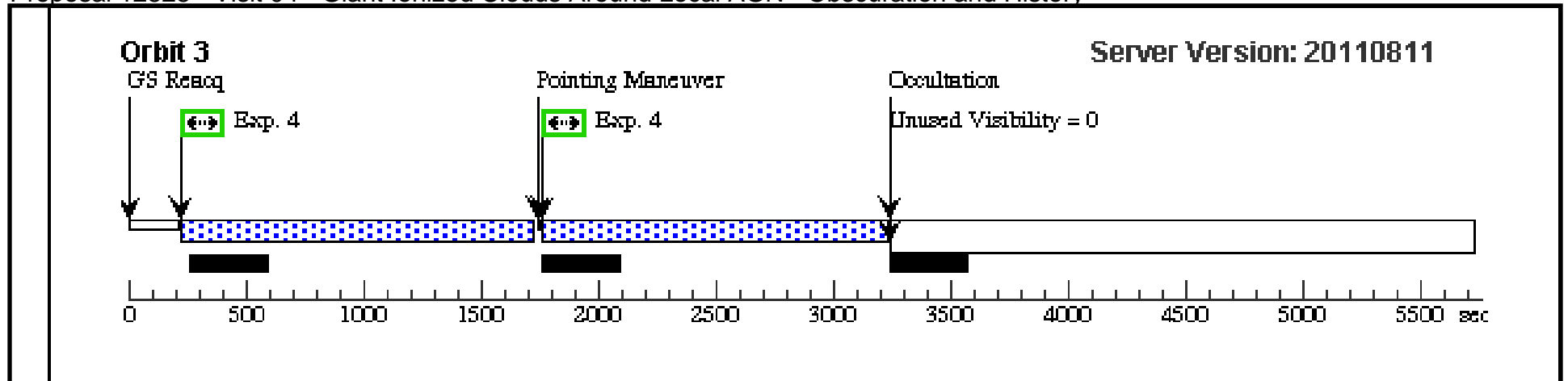


Proposal 12525 - Visit 04 - Giant Ionized Clouds Around Local AGN - Obscuration and History

Sat Aug 20 01:27:58 GMT 2011

<b>Visit</b>	<b>Proposal 12525, Visit 04, implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none) <i>Comments: Continuum and emission-line images of AGN SDSS 1510+07. The target is small, so there are no orientation constraints.</i>									
	<b>Diagnosics</b> (SDSS 1510+07 H-alpha (04.003)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (SDSS 1510+07 [O III] (04.004)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>		<b>Secondary Pattern</b>	<b>Exposures</b>					
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false		(3), (4)					
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1), (2)						
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(4)	SDSS151004.01+074037.1	RA: 15 10 4.0100 (227.5167083d) Dec: +07 40 37.10 (7.67697d) Equinox: J2000		V=16.5	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	SDSS 1510+07 red continuum	(4) SDSS151004.01+074037.1	WFC3/UVIS, ACCUM, UVIS2-FIX	F763M			Pattern 2, Exps 1-1 in Visit 04 (2)	550 Secs [=>577.0 Secs (Pattern 1)] [=>577.0 Secs (Pattern 2)]	[1]
	2	SDSS 1510+07 green continuum	(4) SDSS151004.01+074037.1	WFC3/UVIS, ACCUM, UVIS2-FIX	F621M			Pattern 2, Exps 2-2 in Visit 04 (2)	650 Secs [=>677.0 Secs (Pattern 1)] [=>677.0 Secs (Pattern 2)]	[1]
	3	SDSS 1510+07 H-alpha	(4) SDSS151004.01+074037.1	ACS/WFC, ACCUM, WFC1-IRAMP	FR716N 6864.0 A			Pattern 1, Exps 3-3 in Visit 04 (1)	1200 Secs [=>1265.0 Secs (Pattern 1)] [=>1265.0 Secs (Pattern 2)]	[2]
4	SDSS 1510+07 [O III]	(4) SDSS151004.01+074037.1	ACS/WFC, ACCUM, WFC1-MRAMP	FR505N 5236.0 A			Pattern 1, Exps 4-4 in Visit 04 (1)	1200 Secs [=>1343.0 Secs (Pattern 1)] [=>1343.0 Secs (Pattern 2)]	[3]	





Proposal 12525 - Visit 05 - Giant Ionized Clouds Around Local AGN - Obscuration and History

Sat Aug 20 01:27:58 GMT 2011

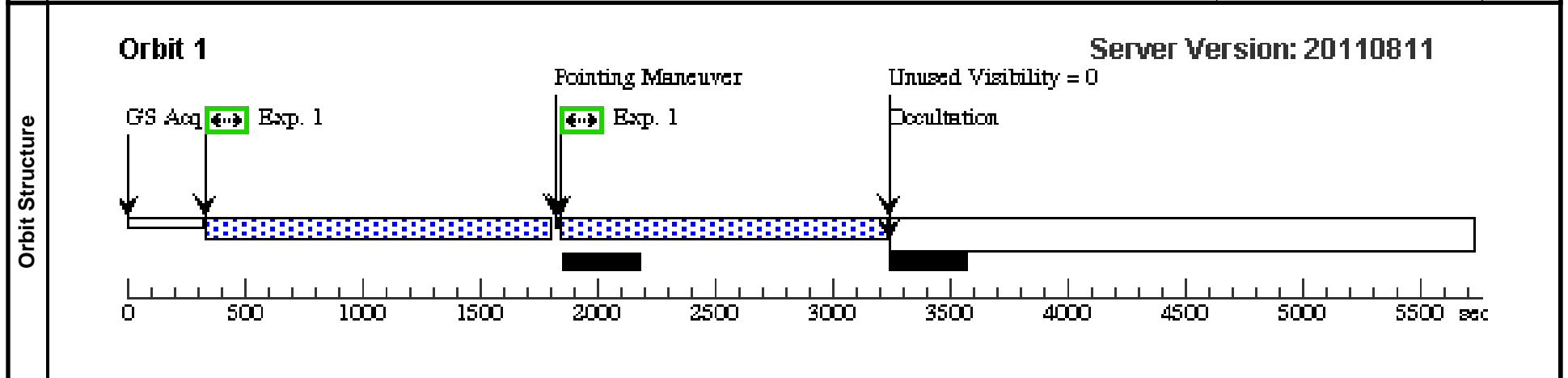
**Visit**  
**Proposal 12525, Visit 05, implementation**  
**Diagnostic Status: Warning**  
 Scientific Instruments: ACS/WFC  
 Special Requirements: ORIENT 101.0D TO 128.0 D; ORIENT 294.0D TO 328.0 D  
*Comments: Continuum and emission-line images of AGN NGC 5972. At its redshift  $z=0.0297$ , H-alpha and [O III] falls within a narrow WFC3 filter. Known emission-line structures extend more than 60" in radius, so there are orientation constraints to keep them near the long axis of the ACS ramp monochromatic field*

**Diagnostics**  
 (NGC 5972 [O III] (05.001)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.

#	Primary Pattern	Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false		(1)

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	NGC-5972	RA: 15 38 54.1607 (234.7256696d) Dec: +17 01 32.19 (17.02561d) Equinox: J2000		V=14.2	Reference Frame: ICRS

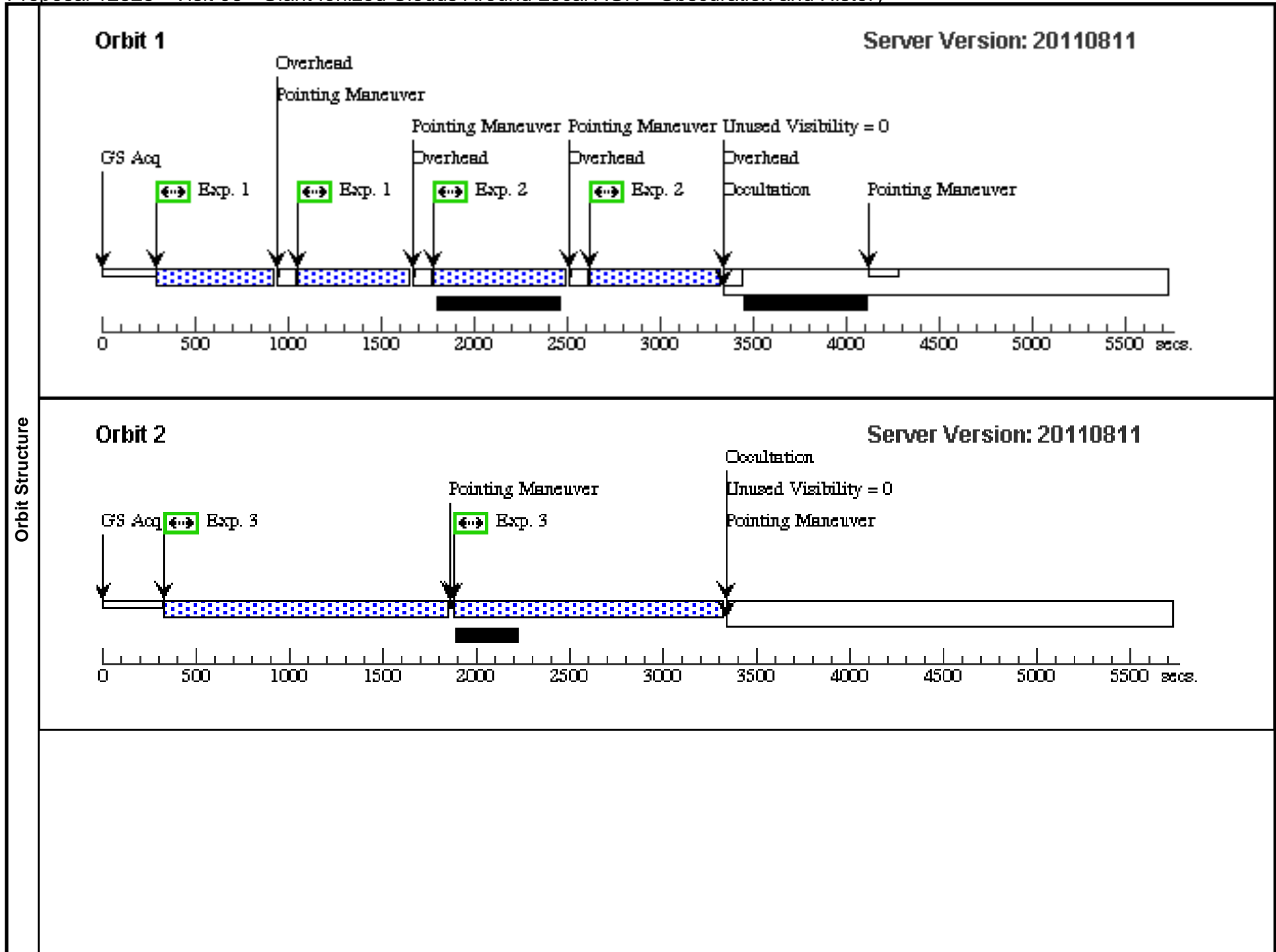
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	NGC 5972 [O III]	(5) NGC-5972	ACS/WFC, ACCUM, WFC1-MRAMP	FR505N 5156.0 A			Pattern 1, Exps 1-1 in Visit 05 (1)	1200 Secs [=>1269.0 Secs (Pattern 1)] [=>1269.0 Secs (Pattern 2)]	[1]

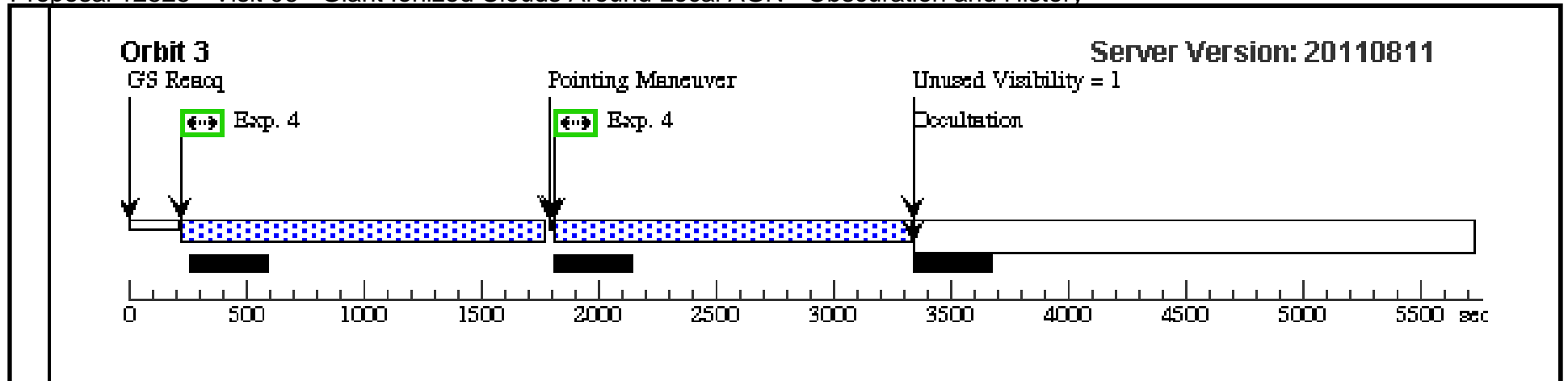


Proposal 12525 - Visit 06 - Giant Ionized Clouds Around Local AGN - Obscuration and History

Sat Aug 20 01:27:59 GMT 2011

<b>Visit</b>	<b>Proposal 12525, Visit 06, implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none) <i>Comments: Continuum and emission-line imaging of extended gas around the AGN UGC 11185.</i>									
	(UGC 11185 H-alpha (06.003)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (UGC 11185 [O III] (06.004)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
<b>Diagnosics</b>										
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false		(3), (4)						
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1), (2)							
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(6)	UGC-11185	RA: 18 16 11.6100 (274.0483750d) Dec: +42 39 37.30 (42.66036d) Equinox: J2000		V=17.4	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	UGC 11185 red continuum	(6) UGC-11185	WFC3/UVIS, ACCUM, UVIS2-FIX	F763M			Pattern 2, Exps 1-1 in Visit 06 (2)	550 Secs [=>602.0 Secs (Pattern 1)] [=>602.0 Secs (Pattern 2)]	[1]
	2	UGC 11185 green continuum	(6) UGC-11185	WFC3/UVIS, ACCUM, UVIS2-FIX	F621M			Pattern 2, Exps 2-2 in Visit 06 (2)	650 Secs [=>702.0 Secs (Pattern 1)] [=>702.0 Secs (Pattern 2)]	[1]
	3	UGC 11185 H-alpha	(6) UGC-11185	ACS/WFC, ACCUM, WFC1-MRAMP	FR656N 6833.0 A			Pattern 1, Exps 3-3 in Visit 06 (1)	1200 Secs [=>1315.0 Secs (Pattern 1)] [=>1315.0 Secs (Pattern 2)]	[2]
4	UGC 11185 [O III]	(6) UGC-11185	ACS/WFC, ACCUM, WFC1-MRAMP	FR505N 5213.0 A			Pattern 1, Exps 4-4 in Visit 06 (1)	1200 Secs [=>1392.0 Secs (Pattern 1)] [=>1392.0 Secs (Pattern 2)]	[3]	

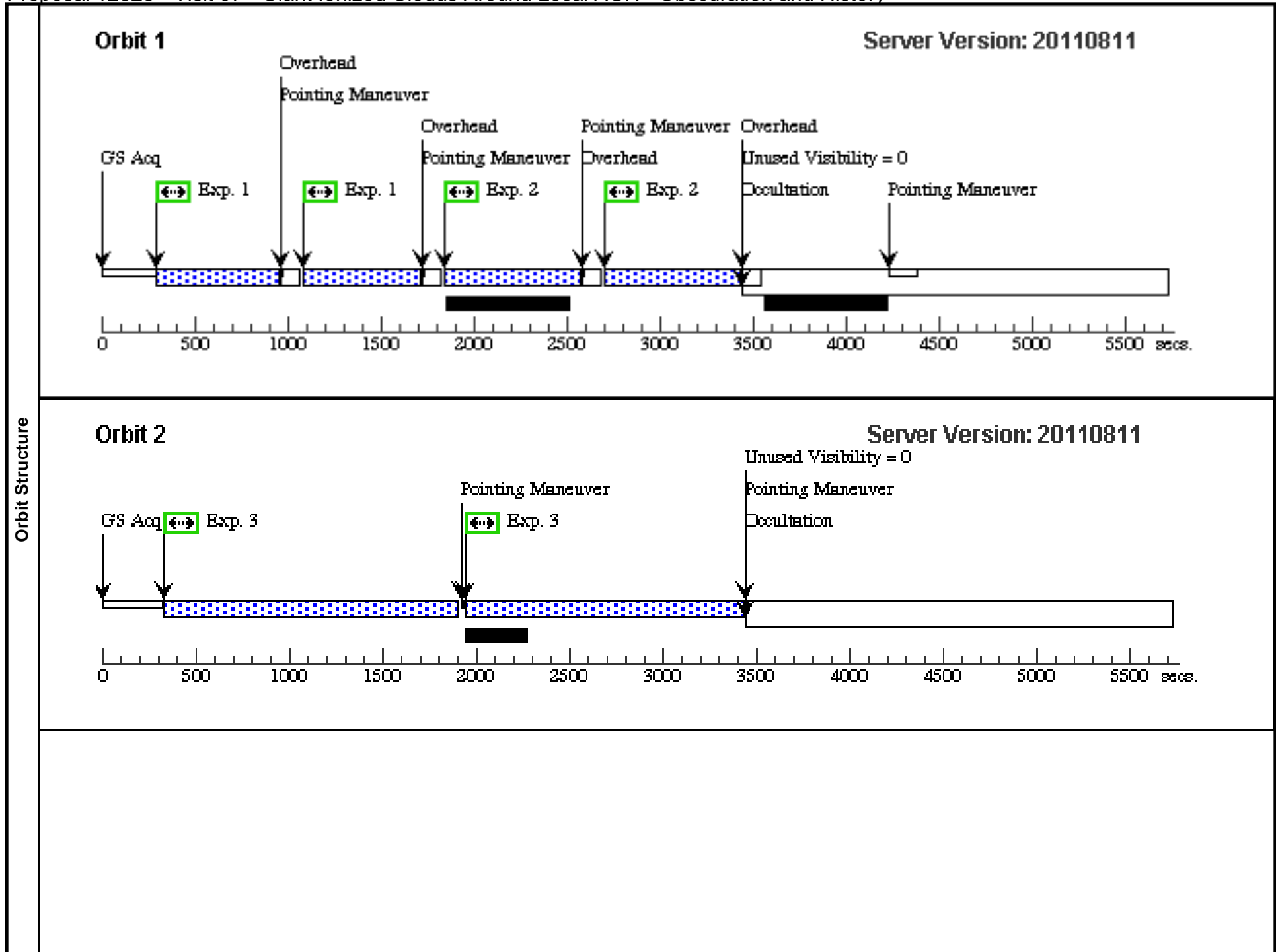


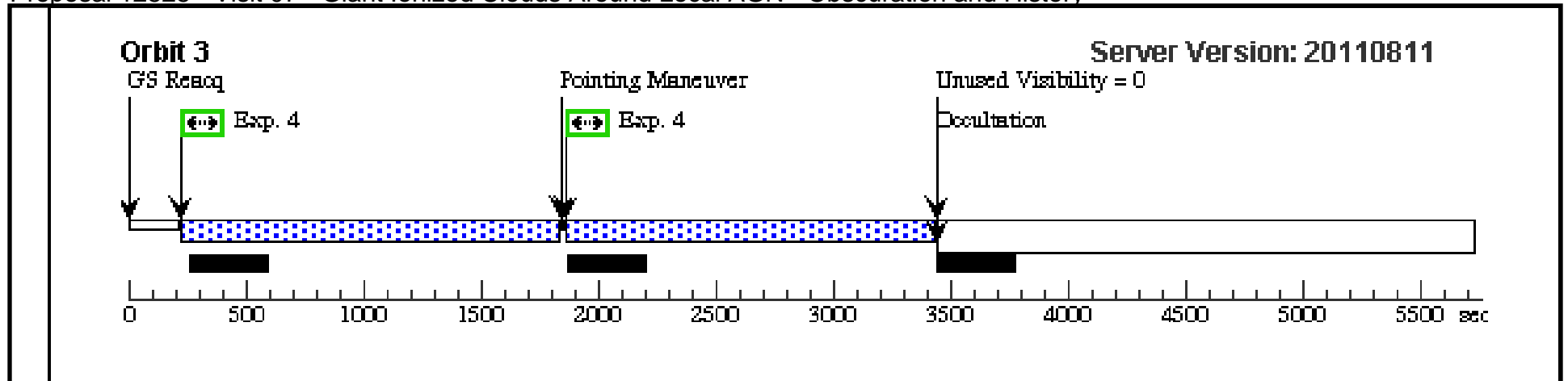


Proposal 12525 - Visit 07 - Giant Ionized Clouds Around Local AGN - Obscuration and History

Sat Aug 20 01:27:59 GMT 2011

<b>Visit</b>	<b>Proposal 12525, Visit 07, implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none) <i>Comments: Continuum and emission-line images of extended gas in the AGN MKN 1498. The target is small, so there are no orientation constraints.</i>									
	(Mkn 1498 [O III] (07.003)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (Mkn 1498 H-alpha (07.004)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
<b>Diagnosics</b>										
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false	(3), (4)						
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(1), (2)							
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(7)	MKN-1498	RA: 16 28 4.0600 (247.0169167d) Dec: +51 46 31.40 (51.77539d) Equinox: J2000		V=15.2	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	Mkn 1498 red continuum	(7) MKN-1498	WFC3/UVIS, ACCUM, UVIS2-FIX	F763M		GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-1 in Visit 07 (2)	550 Secs [=>628.0 Secs (Pattern 1)] [=>628.0 Secs (Pattern 2)]	[1]
	2	Mkn 1498 green continuum	(7) MKN-1498	WFC3/UVIS, ACCUM, UVIS2-FIX	F621M			Pattern 2, Exps 2-2 in Visit 07 (2)	650 Secs [=>728.0 Secs (Pattern 1)] [=>728.0 Secs (Pattern 2)]	[1]
	3	Mkn 1498 [O III]	(7) MKN-1498	ACS/WFC, ACCUM, WFC1-IRAMP	FR551N 5281.0 A			Pattern 1, Exps 3-3 in Visit 07 (1)	1200 Secs [=>1367.0 Secs (Pattern 1)] [=>1367.0 Secs (Pattern 2)]	[2]
4	Mkn 1498 H-alpha	(7) MKN-1498	ACS/WFC, ACCUM, WFC1-IRAMP	FR716N 6922.0 A			Pattern 1, Exps 4-4 in Visit 07 (1)	1300 Secs [=>1445.0 Secs (Pattern 1)] [=>1445.0 Secs (Pattern 2)]	[3]	





Proposal 12525 - Visit 09 - Giant Ionized Clouds Around Local AGN - Obscuration and History

Sat Aug 20 01:28:00 GMT 2011

Visit	<b>Proposal 12525, Visit 09, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 115.0D TO 150.0 D; ORIENT 260.0D TO 323.0 D									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
		(3)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=							(1), (2), (3)
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(5)	NGC-5972	RA: 15 38 54.1607 (234.7256696d) Dec: +17 01 32.19 (17.02561d) Equinox: J2000				V=14.2		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NGC 5972 r ed continuum	(5) NGC-5972	WFC3/UVIS, ACCUM, UVIS-FIX	F763M		GS ACQ SCENARI O BASE1B3	Pattern 3, Exps 1-1 i n Visit 09 (3)	500 Secs [==>629.0 Secs (Pattern 1)] [==>629.0 Secs (Pattern 2)]	[1]
	2	NGC 5972 g reen continuum	(5) NGC-5972	WFC3/UVIS, ACCUM, UVIS-FIX	F621M			Pattern 3, Exps 2-2 i n Visit 09 (3)	500 Secs [==>629.0 Secs (Pattern 1)] [==>629.0 Secs (Pattern 2)]	[1]
	3	NGC 5972 H-alpha	(5) NGC-5972	WFC3/UVIS, ACCUM, UVIS-FIX	F673N			Pattern 3, Exps 3-3 i n Visit 09 (3)	1200 Secs [==>1445.0 Secs (Pattern 1)] [==>1445.0 Secs (Pattern 2)]	[2]

