



15970 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

Cycle: 27, Proposal Category: GO

(UV Initiative)

(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) SDSSRM16 (4) SDSSRM33	WFC3/UVIS	1	18-Mar-2021 19:00:20.0	yes
02	(2) SDSSRM17 (3) SDSSRM21	WFC3/UVIS	1	18-Mar-2021 19:00:22.0	yes
03	(5) SDSSRM191 (13) SDSSRM428	WFC3/UVIS	1	18-Mar-2021 19:00:23.0	yes
04	(6) SDSSRM215	WFC3/UVIS	1	18-Mar-2021 19:00:23.0	yes
4A	(12) SDSSRM392	WFC3/UVIS	1	18-Mar-2021 19:00:24.0	yes
05	(7) SDSSRM305	WFC3/UVIS	1	18-Mar-2021 19:00:25.0	yes
5A	(23) SDSSRM720	WFC3/UVIS	1	18-Mar-2021 19:00:25.0	yes
06	(8) SDSSRM316 (22) SDSSRM707	WFC3/UVIS	1	18-Mar-2021 19:00:26.0	yes
07	(9) SDSSRM320 (10) SDSSRM338	WFC3/UVIS	1	18-Mar-2021 19:00:27.0	yes
08	(11) SDSSRM371 (16) SDSSRM551	WFC3/UVIS	1	18-Mar-2021 19:00:28.0	yes
09	(14) SDSSRM457 (15) SDSSRM519	WFC3/UVIS	1	18-Mar-2021 19:00:29.0	yes
10	(17) SDSSRM589 (21) SDSSRM694	WFC3/UVIS	1	18-Mar-2021 19:00:30.0	yes
11	(18) SDSSRM622 (19) SDSSRM634	WFC3/UVIS	1	18-Mar-2021 19:00:31.0	yes
12	(20) SDSSRM645 (25) SDSSRM781	WFC3/UVIS	1	18-Mar-2021 19:00:32.0	yes
13	(24) SDSSRM779 (26) SDSSRM840	WFC3/UVIS	1	18-Mar-2021 19:00:33.0	yes

15 Total Orbits Used

ABSTRACT

We propose ultraviolet (UV) imaging to construct spectral energy distributions (SEDs) for a sample of active galactic nuclei (AGN) at redshifts from ~ 0.3 to ~ 1.0 that have reverberation mapping (RM) measurements of the broad line region. We will use UV--optical SEDs to examine the origin of deviations of sources from the local radius-luminosity (R-L) relation that is used to estimate black hole masses in AGN at high redshift. Because the R-L relation depends on the amount of ionizing radiation reaching the line-emitting gas, we expect that the R-L relation will depend on the SED of the sources. Our proposed observations will quantify any dependence of the R-L relation on the SED of the AGN and will allow us to apply the R-L relationship to estimate black hole masses in sources spanning a wide range of redshifts and accretion properties. All black hole mass estimates in AGN across the observable universe rely on the calibration and application of the R-L relation; it is thus imperative that we understand its limitations and possible dependencies on various AGN properties. This work will be fundamental for studies of the formation and evolution of galaxies and their supermassive black holes.

OBSERVING DESCRIPTION

Observing Strategy:

We will use an efficient observing design with 2 targets per orbit, observing our 26 quasar targets in a total of 13 orbits of WFC3/UVIS observations. We target two quasars per orbit by using UVIS subarrays to minimize the overhead time for readout and WFC3 buffer dumps. The overheads associated with two guide-star acquisitions in each orbit still allow 450 s total exposure time in each of two filters for each target. Taking into account the WFC3/UVIS instrument properties and the expected UV fluxes of our sources, 450-s exposure times achieve $\text{SNR} > 60$ for all quasars. This high SNR is necessary to obtain high-precision luminosity measurements and constrain the quasar UV/optical SED below its variability amplitude.

Each quasar will be observed in two WFC3/UVIS filters to measure the rest-frame 1300-1750Å emission. The use of two bands provides a coarse measure of the UV spectral slope and will allow us to fit a model to infer the number of 13.6 eV hydrogen-ionizing photons that ultimately drive the BLR size that is used to determine the RBLR-L relation. This is accomplished with the F225W+F275W filters for 19/26 quasars, and with the F275W+F336W filters for the remaining 7 higher-redshift quasars (the different filters are required for our highest-redshift quasars to avoid significant contamination by broad emission lines). We anticipate the filters to include $< 10\%$ contamination from broad emission lines (mostly CIV in the bluer filter). This was estimated using the average line strengths of SDSS quasars (appropriate for this SDSS-selected sample).

Impact of reduced-gyro operations:

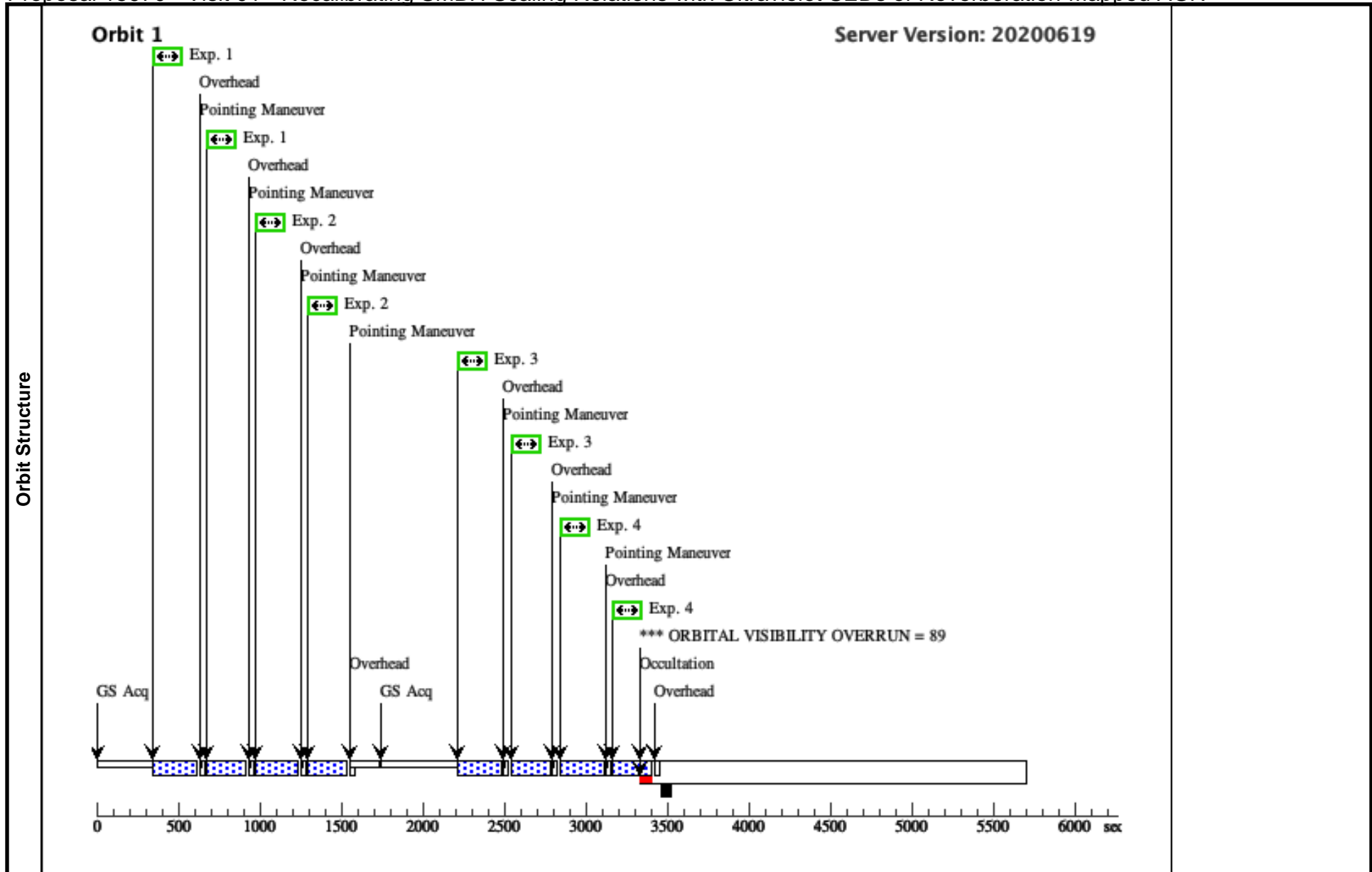
Proposal 15970 (STScI Edit Number: 10, Created: Thursday, March 18, 2021 at 6:00:34 PM Eastern Standard Time) - Overview

Our observations will work in 1-gyro mode. We are using standard guiding, and our exposure times can be slightly reduced to account for longer guide-star acquisition without jeopardizing our science goals.

Proposal 15970 - Visit 01 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

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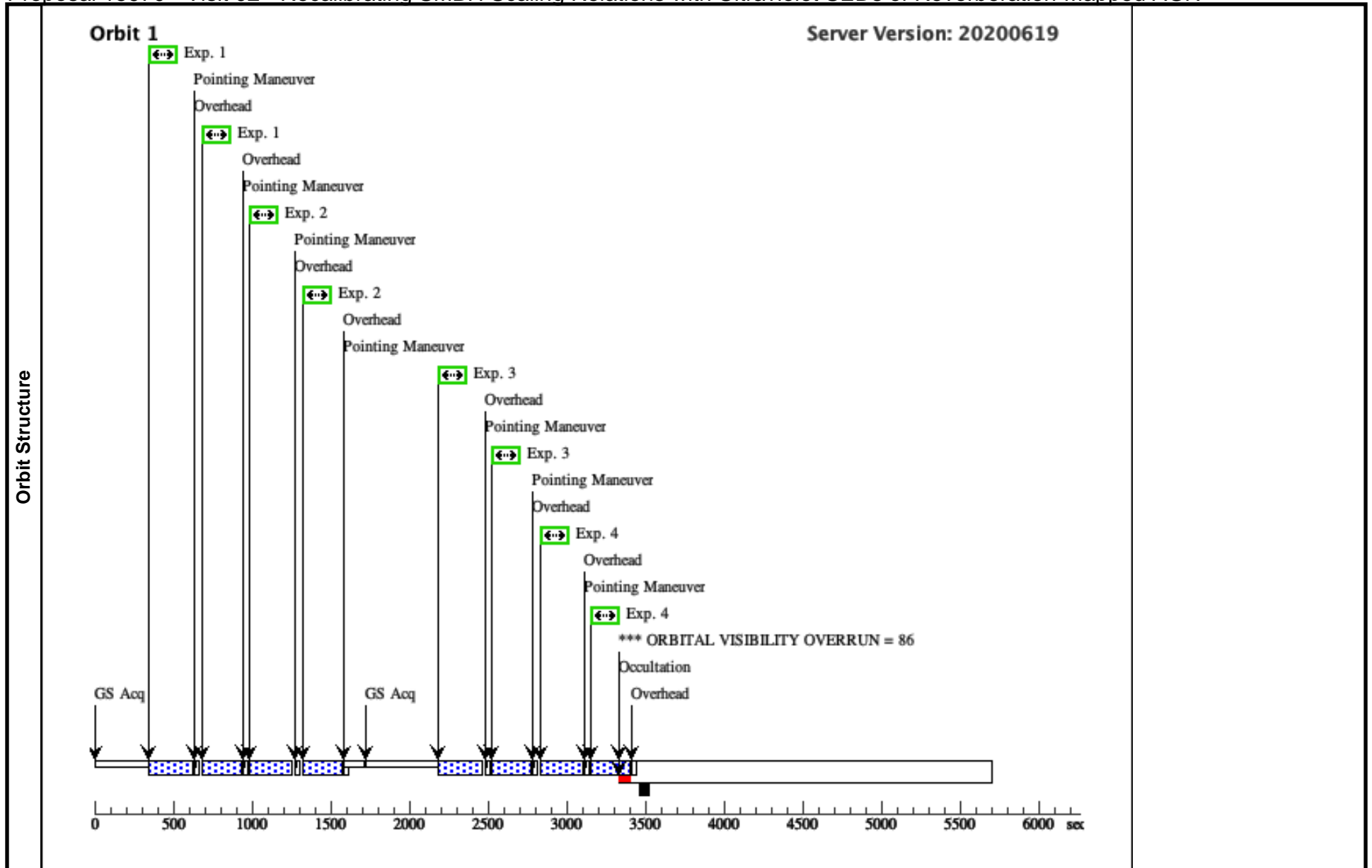
Visit	Proposal 15970, Visit 01, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 222.8D TO 238.3 D; BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00									
	(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(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)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SDSSRM16	RA: 14 16 6.9530 (214.0289708d) Dec: +53 09 29.77 (53.15827d) Equinox: J2000		V=(?) u=21.4	Reference Frame: ICRS				
	<i>Comments: Category=GALAXY Description=[QUASAR]</i>									
	(4)	SDSSRM33	RA: 14 15 32.3571 (213.8848213d) Dec: +52 49 5.92 (52.81831d) Equinox: J2000		V=(?) u=21.0	Reference Frame: ICRS				
<i>Comments: Category=GALAXY Description=[QUASAR]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) SDSSRM16	(1) SDSSRM16	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F336W	FLASH=12		Sequence 1-4 Non-Int in Visit 01	242 Secs (484 Secs)	
	[==>(Pattern 1)] Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in Visit 01 (2) [==>(Pattern 2)]									
	2	(1) SDSSRM16	(1) SDSSRM16	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 01	242 Secs (484 Secs)	
	[==>(Pattern 1)] Pattern 2, Exps 2-2 in Sequence 1-4 Non-Int in Visit 01 (2) [==>(Pattern 2)]									
3	(4) SDSSRM33	(4) SDSSRM33	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Sequence 1-4 Non-Int in Visit 01	242 Secs (484 Secs)		
[==>(Pattern 1)] Pattern 2, Exps 3-3 in Sequence 1-4 Non-Int in Visit 01 (2) [==>(Pattern 2)]										
4	(4) SDSSRM33	(4) SDSSRM33	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 01	242 Secs (484 Secs)		
[==>(Pattern 1)] Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in Visit 01 (2) [==>(Pattern 2)]										



Proposal 15970 - Visit 02 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

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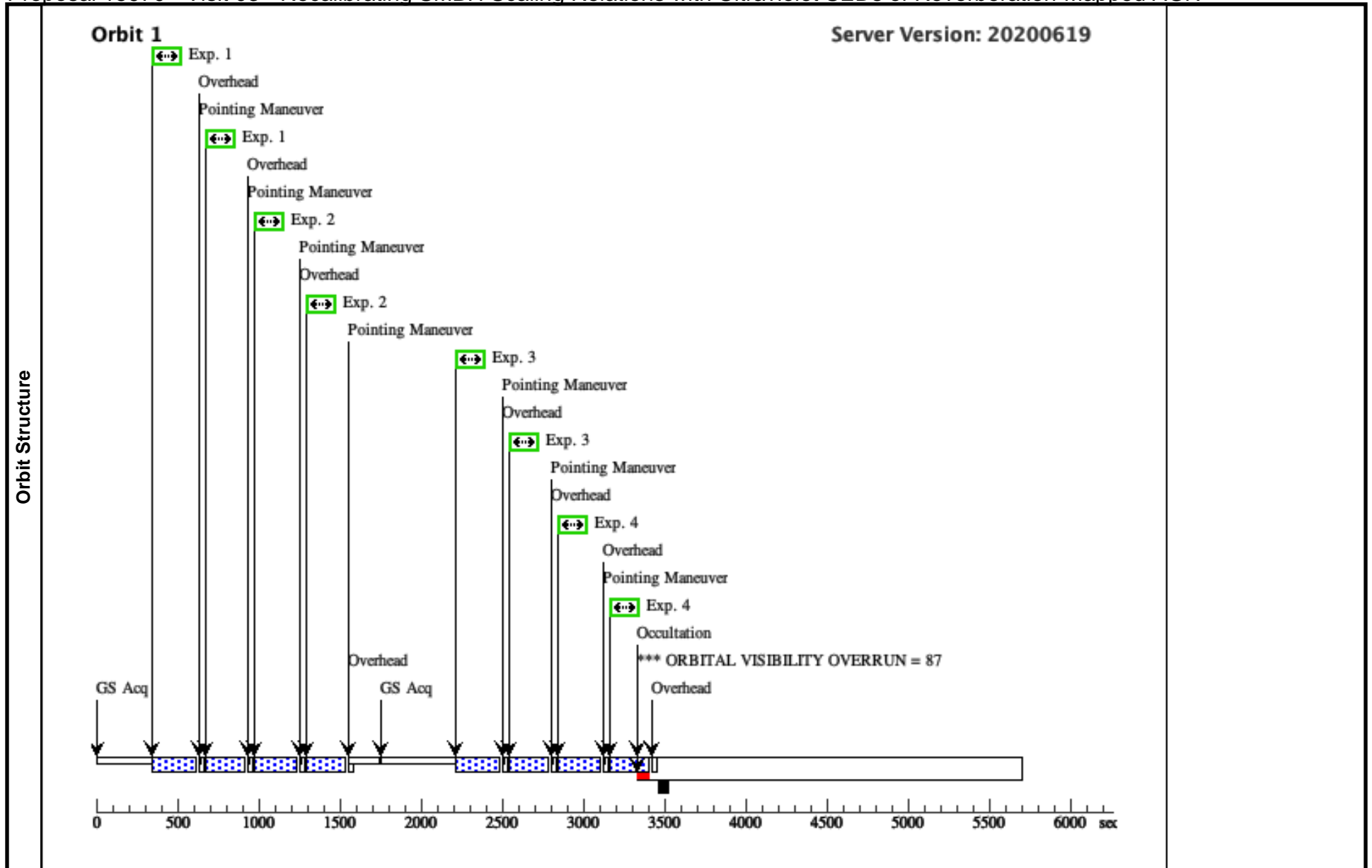
Visit	Proposal 15970, Visit 02, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 190D TO 194 D; BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00									
	(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(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)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SDSSRM17	RA: 14 13 24.2759 (213.3511496d) Dec: +53 05 26.95 (53.09082d) Equinox: J2000 <i>Comments:</i> Category=GALAXY Description=[QUASAR]		V=(?) u=20.8	Reference Frame: ICRS				
(3)	SDSSRM21	RA: 14 13 14.9718 (213.3123825d) Dec: +53 01 39.43 (53.02762d) Equinox: J2000 <i>Comments:</i> Category=GALAXY Description=[QUASAR]		V=(?) u=21.6	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) SDSSRM17	(2) SDSSRM17	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Sequence 1-4 Non-Int in Visit 02 Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in Visit 02 (2)	248 Secs (496 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(2) SDSSRM17	(2) SDSSRM17	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 02 Pattern 2, Exps 2-2 in Sequence 1-4 Non-Int in Visit 02 (2)	248 Secs (496 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(3) SDSSRM21	(3) SDSSRM21	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F336W	FLASH=12		Sequence 1-4 Non-Int in Visit 02 Pattern 2, Exps 3-3 in Sequence 1-4 Non-Int in Visit 02 (2)	248 Secs (496 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(3) SDSSRM21	(3) SDSSRM21	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 02 Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in Visit 02 (2)	248 Secs (496 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 15970 - Visit 03 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

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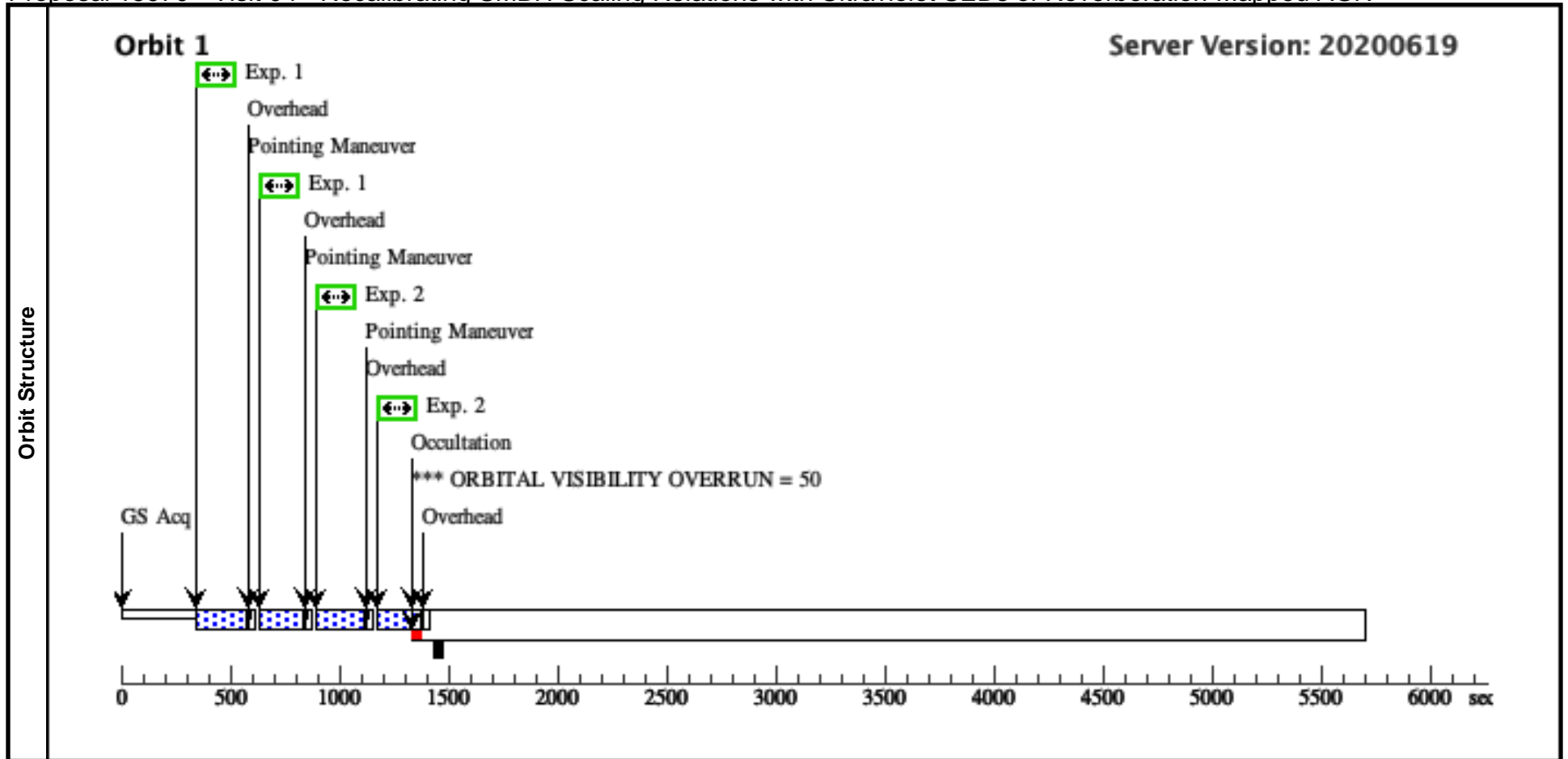
Visit	Proposal 15970, Visit 03, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 233D TO 244 D; BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00									
	(Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(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)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SDSSRM191	RA: 14 16 45.5795 (214.1899146d) Dec: +53 44 46.78 (53.74633d) Equinox: J2000		V=(?) u=21.1	Reference Frame: ICRS				
	<i>Comments: Category=GALAXY Description=[QUASAR]</i>									
	(13)	SDSSRM428	RA: 14 18 56.1949 (214.7341454d) Dec: +53 58 44.98 (53.97916d) Equinox: J2000		V=(?) u=18.5	Reference Frame: ICRS				
<i>Comments: Category=GALAXY Description=[QUASAR]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(5) SDSSRM191	(5) SDSSRM191	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Sequence 1-4 Non-Int in Visit 03 Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in Visit 03 (2)	241 Secs (482 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(5) SDSSRM191	(5) SDSSRM191	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 03 Pattern 2, Exps 2-2 in Sequence 1-4 Non-Int in Visit 03 (2)	241 Secs (482 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(13) SDSSRM428	(13) SDSSRM428	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F336W	FLASH=12		Sequence 1-4 Non-Int in Visit 03 Pattern 2, Exps 3-3 in Sequence 1-4 Non-Int in Visit 03 (2)	241 Secs (482 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(13) SDSSRM428	(13) SDSSRM428	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 03 Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in Visit 03 (2)	241 Secs (482 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 15970 - Visit 04 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

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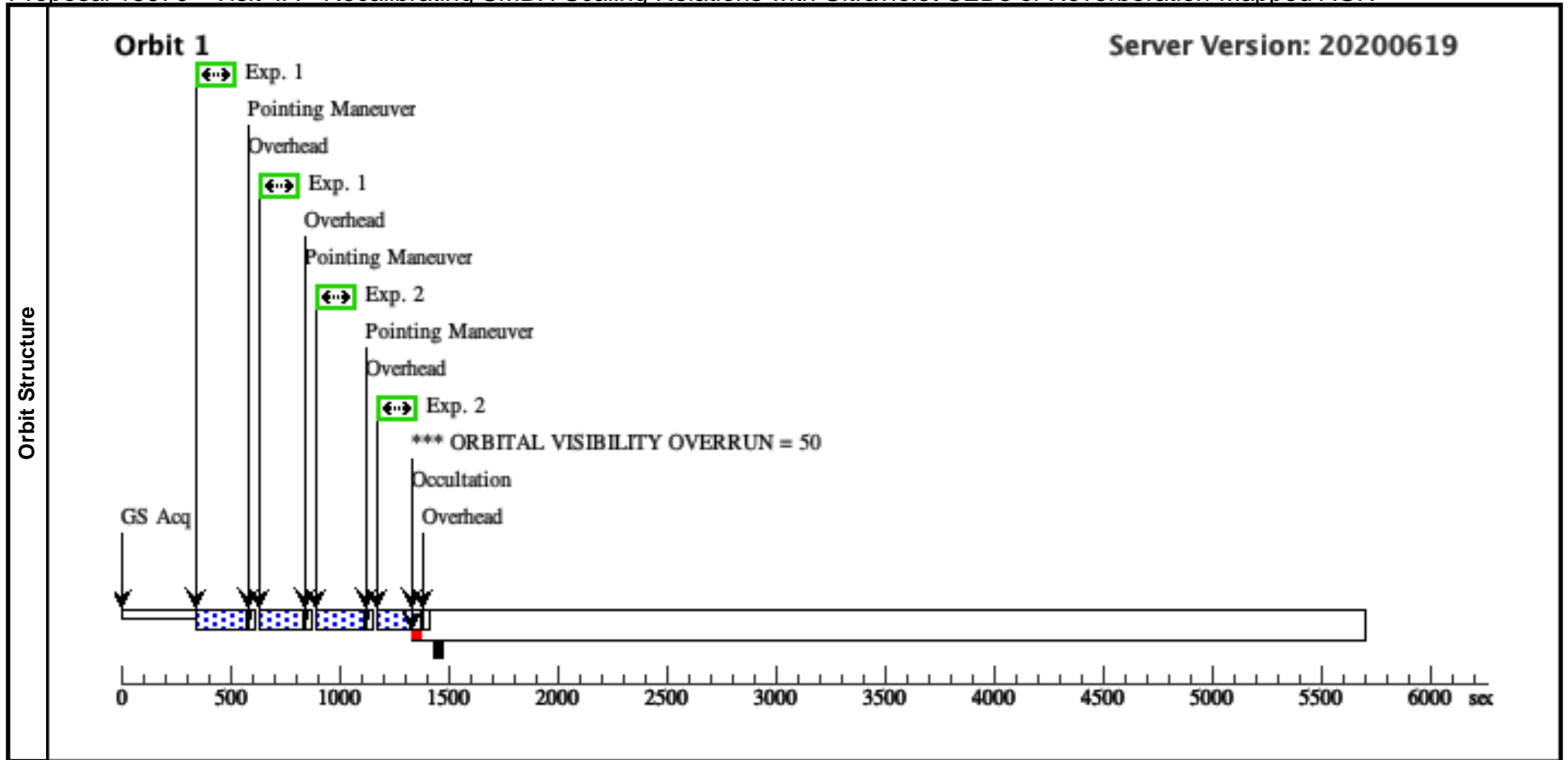
Visit	Proposal 15970, Visit 04, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00; VISIBILITY INTERVAL CORON									
	(Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(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)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	SDSSRM215	RA: 14 19 52.2338 (214.9676408d) Dec: +53 13 40.94 (53.22804d) Equinox: J2000		V=(?) u=22.3	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) SDSSRM215	(6) SDSSRM215	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F336W	FLASH=12	GS ACQ SCENARI O BASE1B3	Sequence 1-2 Non-Int in Visit 04	197 Secs (394 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-2 Non-Int in Visit 04 (2)	[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	(6) SDSSRM215	(6) SDSSRM215	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-2 Non-Int in Visit 04	197 Secs (394 Secs)		
							Pattern 2, Exps 2-2 in Sequence 1-2 Non-Int in Visit 04 (2)	[=>(Pattern 1)]	[1]	
								[=>(Pattern 2)]		



Proposal 15970 - Visit 4A - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

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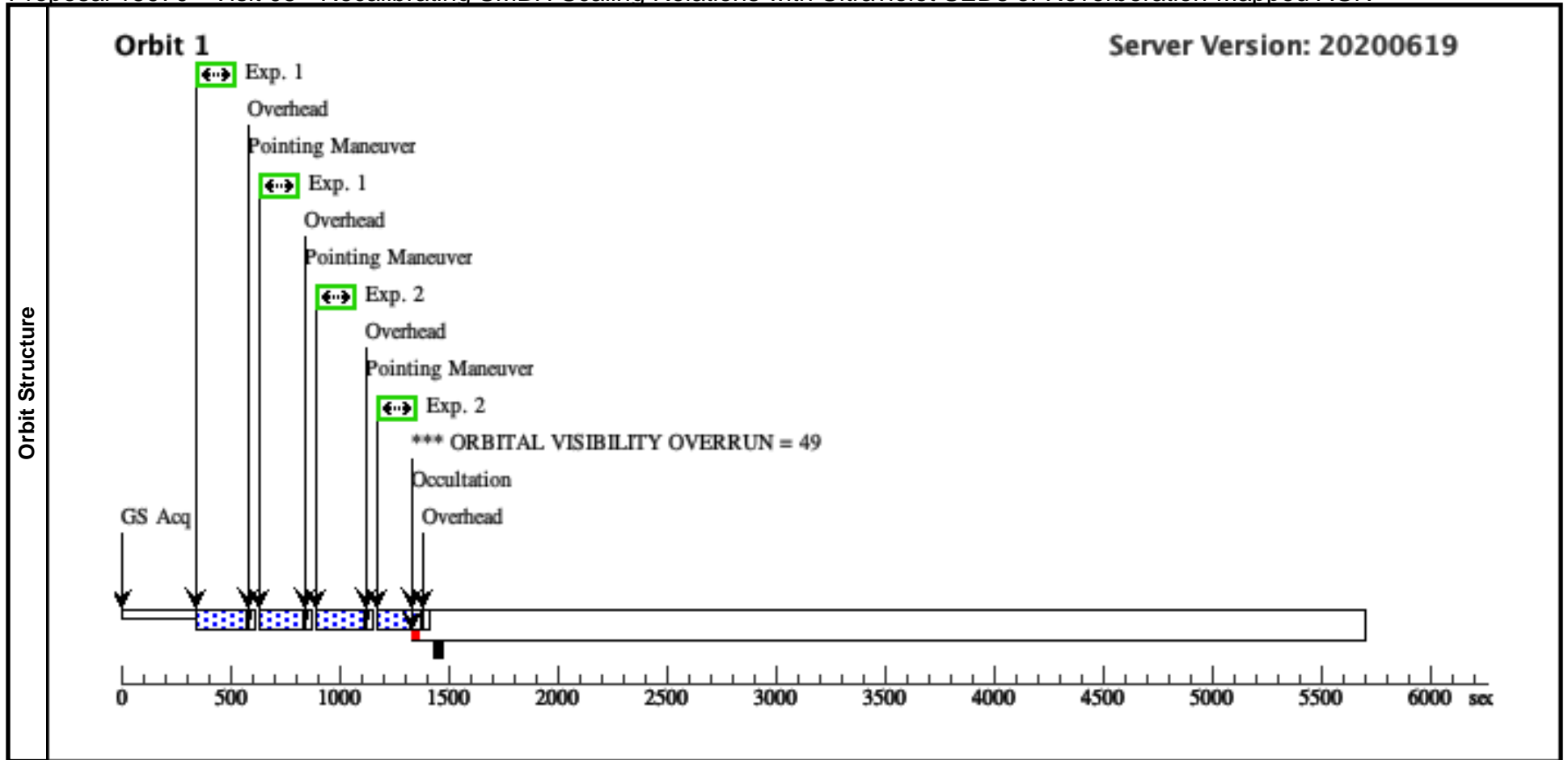
Visit	Proposal 15970, Visit 4A, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00; VISIBILITY INTERVAL CORON									
	(Visit 4A) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(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)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	SDSSRM392	RA: 14 21 12.2931 (215.3012212d) Dec: +52 41 47.25 (52.69646d) Equinox: J2000		V=(?) u=20.8	Reference Frame: ICRS				
<i>Comments:</i> Category=GALAXY Description=[QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(12) SDSSRM392	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F336W	FLASH=12		Sequence 1-2 Non-Int in Visit 4A	197 Secs (394 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-2 Non-Int in Visit 4A (2)	[=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(12) SDSSRM392	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-2 Non-Int in Visit 4A	197 Secs (394 Secs)	
							Pattern 2, Exps 2-2 in Sequence 1-2 Non-Int in Visit 4A (2)	[=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 15970 - Visit 05 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

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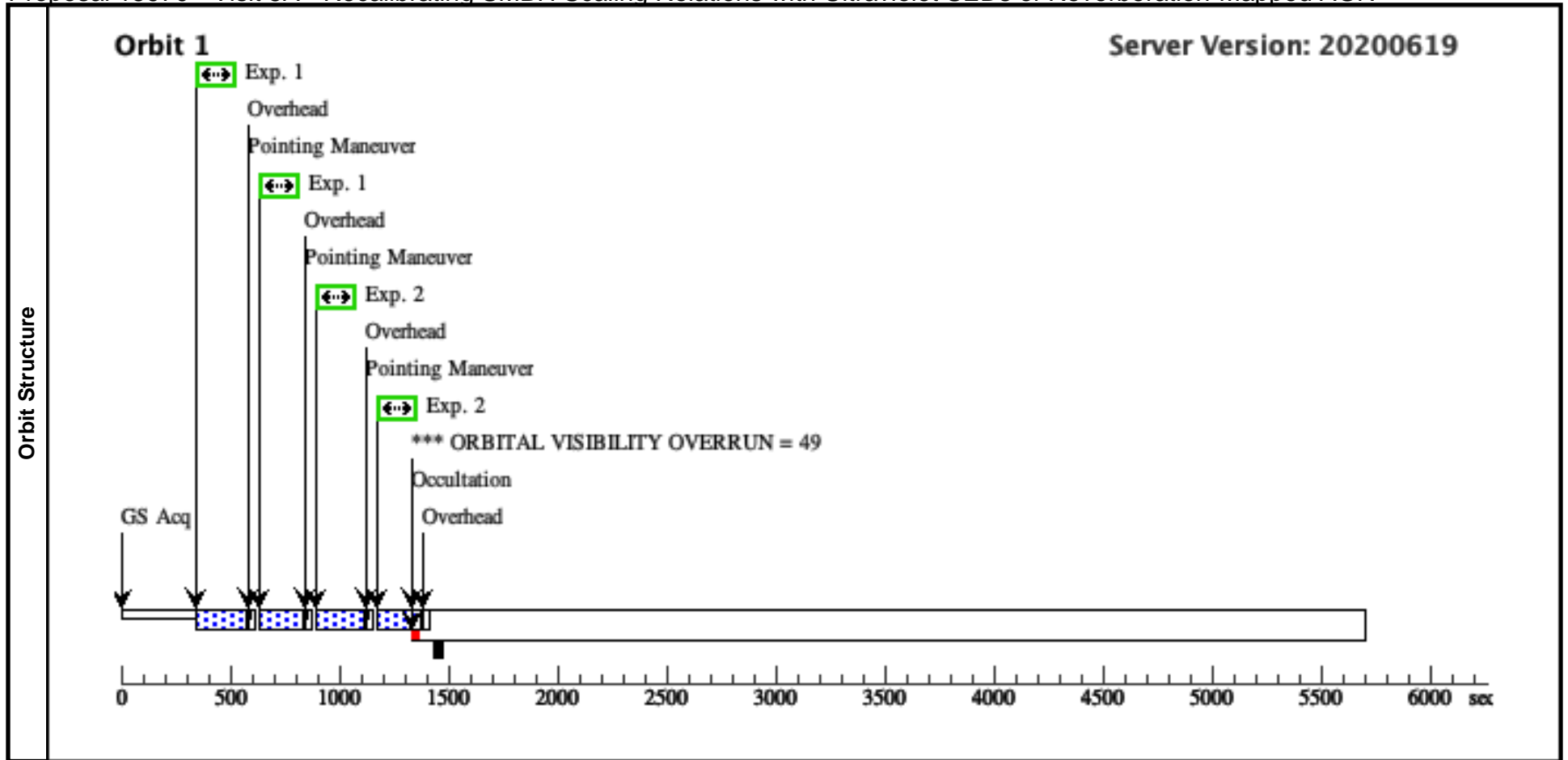
Visit	Proposal 15970, Visit 05, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00; VISIBILITY INTERVAL CORON									
	(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(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)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	SDSSRM305	RA: 14 10 4.2732 (212.5178050d) Dec: +52 31 41.00 (52.52806d) Equinox: J2000		V=(?) u=20.3	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(7) SDSSRM305	(7) SDSSRM305	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12	GS ACQ SCENARI O BASE1B3	Sequence 1-2 Non-Int in Visit 05	196 Secs (392 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-2 Non-Int in Visit 05 (2)	[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
2	(7) SDSSRM305	(7) SDSSRM305	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-2 Non-Int in Visit 05	196 Secs (392 Secs)		
							Pattern 2, Exps 2-2 in Sequence 1-2 Non-Int in Visit 05 (2)	[=>(Pattern 1)]	[1]	
								[=>(Pattern 2)]		



Proposal 15970 - Visit 5A - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

Thu Mar 18 23:00:35 GMT 2021

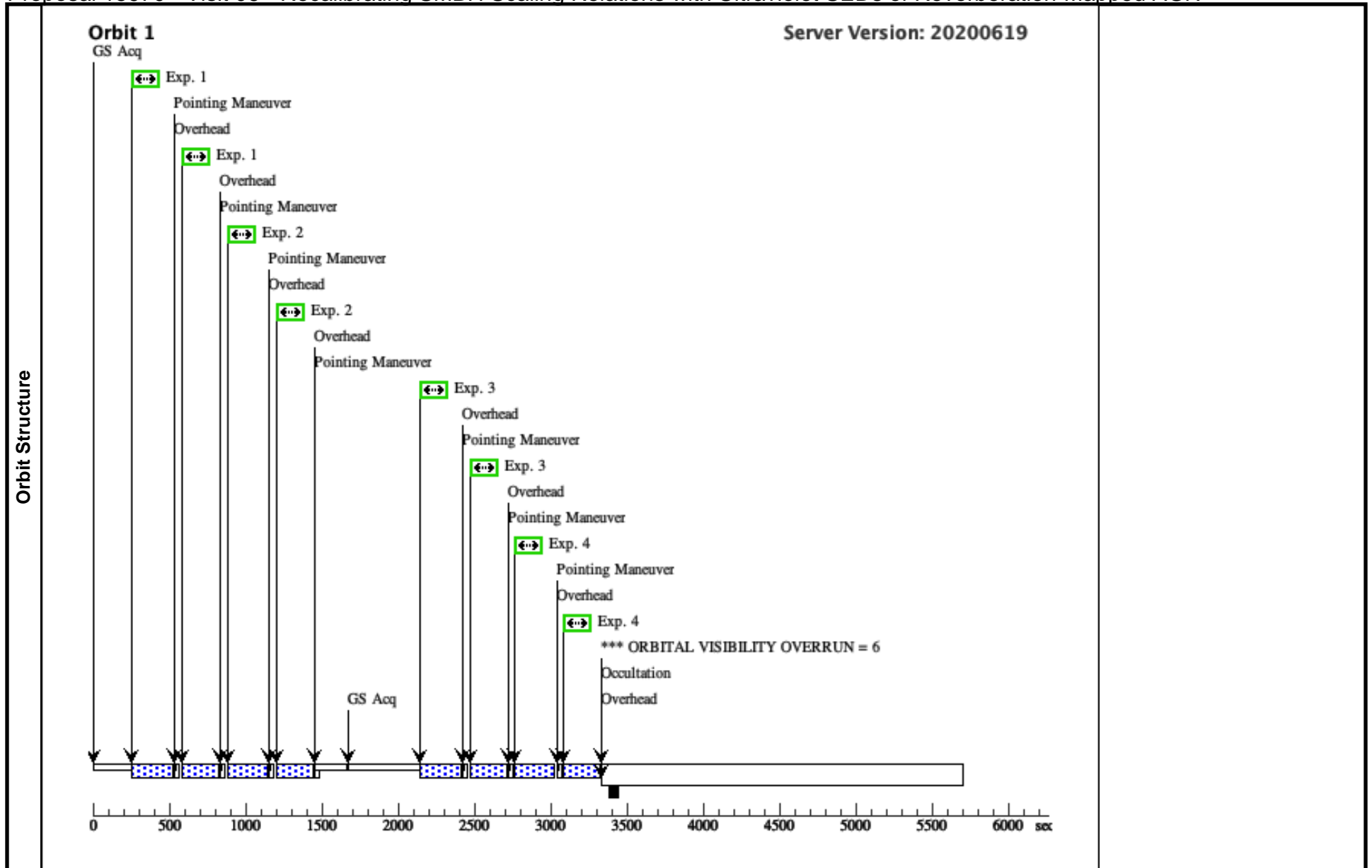
Visit	Proposal 15970, Visit 5A, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00; VISIBILITY INTERVAL CORON									
	(Visit 5A) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(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)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(23)	SDSSRM720	RA: 14 05 18.0211 (211.3250879d) Dec: +53 15 30.02 (53.25834d) Equinox: J2000		V=(?) u=19.8	Reference Frame: ICRS				
<i>Comments:</i> Category=GALAXY Description=[QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(23) SDSSRM720	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12	GS ACQ SCENARIO BASE1B3	Sequence 1-2 Non-Int in Visit 5A	196 Secs (392 Secs)	
								Pattern 2, Exps 1-1 in Sequence 1-2 Non-Int in Visit 5A (2)	[=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(23) SDSSRM720	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-2 Non-Int in Visit 5A	196 Secs (392 Secs)	
							Pattern 2, Exps 2-2 in Sequence 1-2 Non-Int in Visit 5A (2)	[=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 15970 - Visit 06 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

Thu Mar 18 23:00:35 GMT 2021

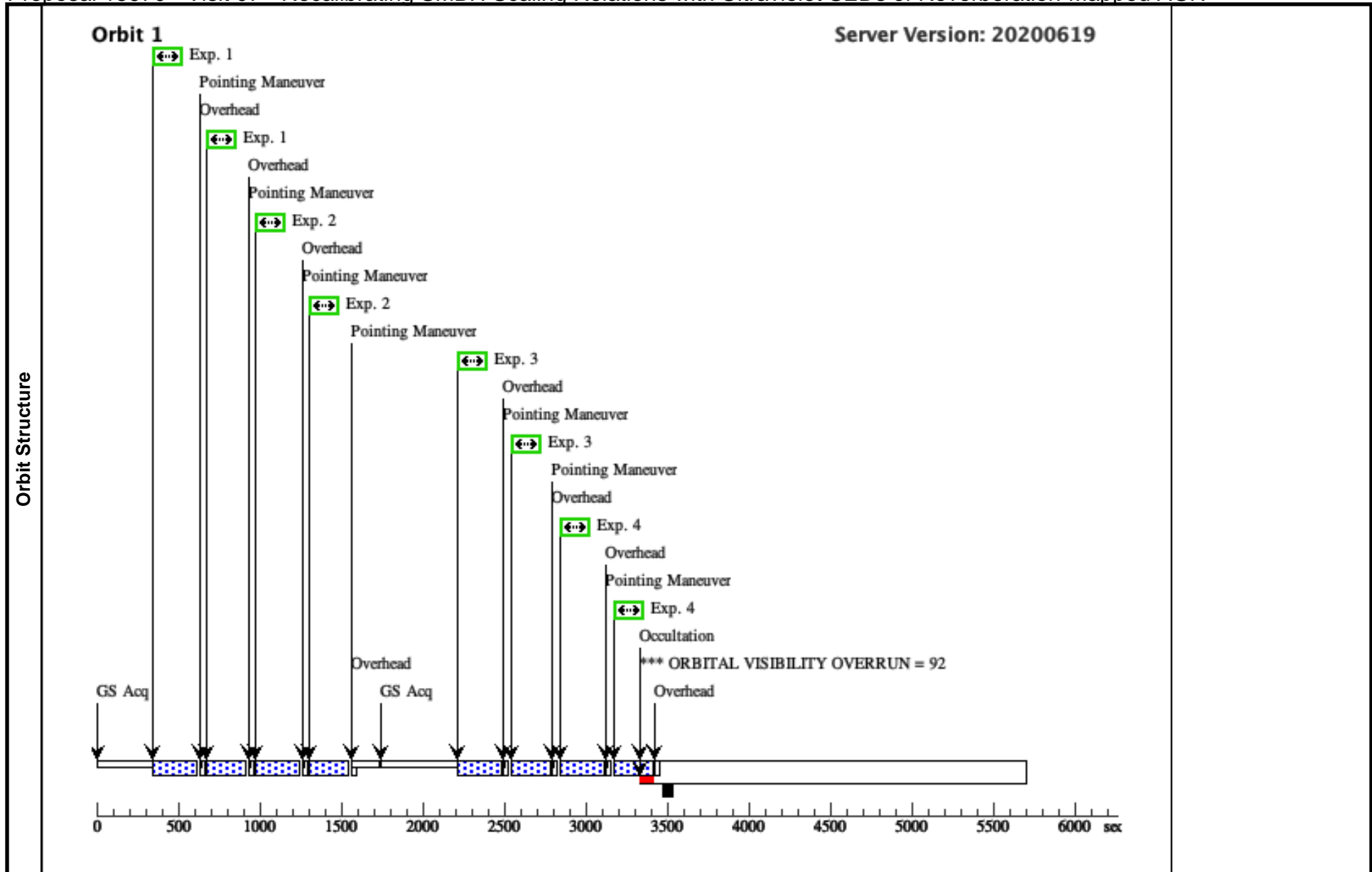
Visit	Proposal 15970, Visit 06, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00										
	(Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern			Exposures		
	(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)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(8)	SDSSRM316	RA: 14 20 52.4375 (215.2184896d) Dec: +52 56 22.42 (52.93956d) Equinox: J2000				V=(?) u=18.3	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[QUASAR]										
	(22)	SDSSRM707	RA: 14 24 17.2239 (216.0717662d) Dec: +53 02 8.87 (53.03580d) Equinox: J2000				V=(?) u=21.8	Reference Frame: ICRS			
<i>Comments:</i> Category=GALAXY Description=[QUASAR]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(8) SDSSRM316	(8) SDSSRM316	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12	GS ACQ SCENARI O ONEB1B3	Sequence 1-4 Non-Int in Visit 06 Pattern 2, Exps 1-1 i n Sequence 1-4 Non- Int in Visit 06 (2)	240 Secs (480 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	2	(8) SDSSRM316	(8) SDSSRM316	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 06 Pattern 2, Exps 2-2 i n Sequence 1-4 Non- Int in Visit 06 (2)	240 Secs (480 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	3	(22) SDSSRM707	(22) SDSSRM707	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F336W	FLASH=12		Sequence 1-4 Non-Int in Visit 06 Pattern 2, Exps 3-3 i n Sequence 1-4 Non- Int in Visit 06 (2)	240 Secs (480 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	4	(22) SDSSRM707	(22) SDSSRM707	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 06 Pattern 2, Exps 4-4 i n Sequence 1-4 Non- Int in Visit 06 (2)	240 Secs (480 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	



Proposal 15970 - Visit 07 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

Thu Mar 18 23:00:35 GMT 2021

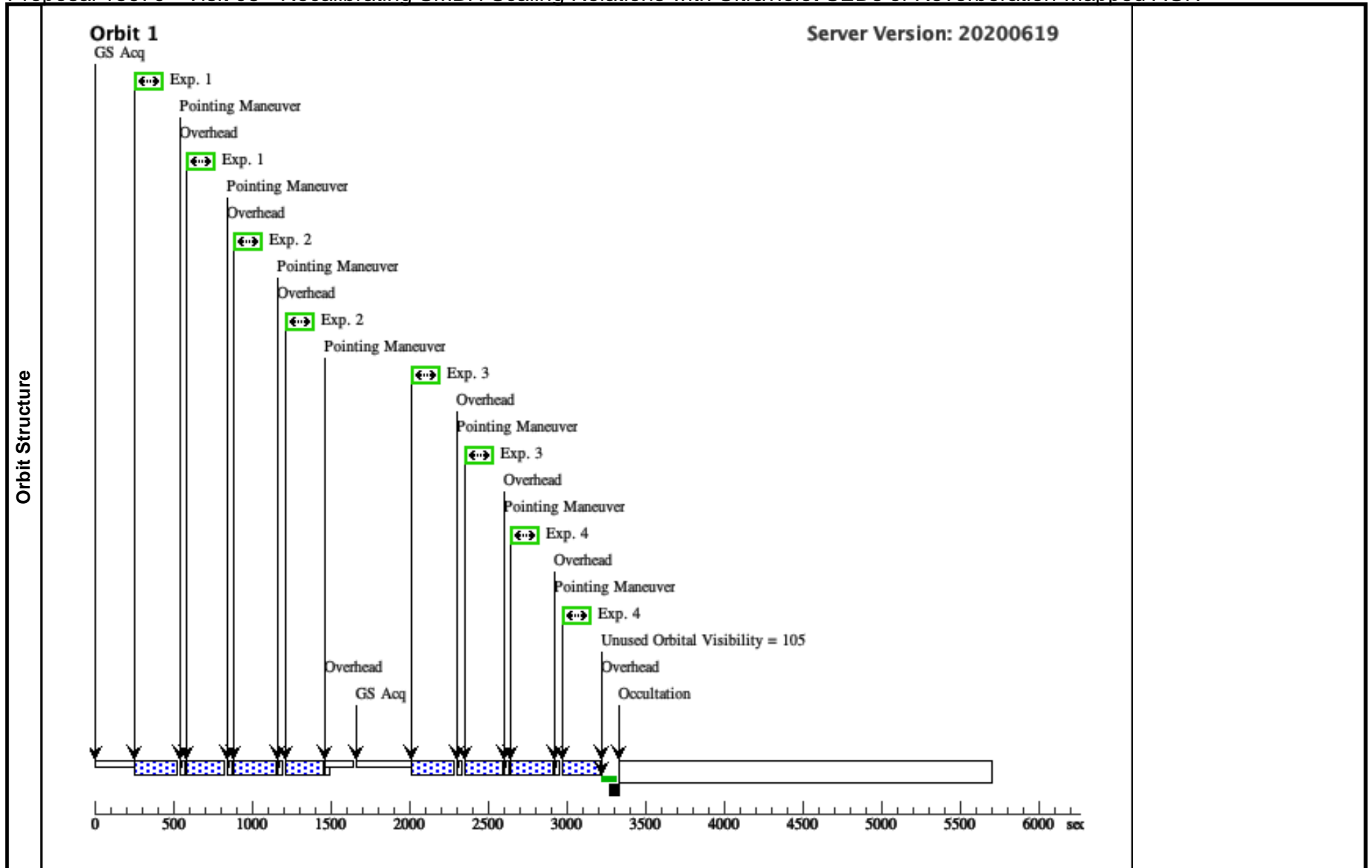
Visit	Proposal 15970, Visit 07, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 192.1D TO 198.4 D; BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00									
	(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(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)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	SDSSRM320	RA: 14 20 38.5212 (215.1605050d) Dec: +53 24 16.49 (53.40458d) Equinox: J2000		V=(?) u=19.6	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[QUASAR]									
	(10)	SDSSRM338	RA: 14 19 55.6249 (214.9817704d) Dec: +53 40 7.16 (53.66866d) Equinox: J2000		V=(?) u=21.0	Reference Frame: ICRS				
<i>Comments:</i> Category=GALAXY Description=[QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(9) SDSSRM320	(9) SDSSRM320	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Sequence 1-4 Non-Int in Visit 07 Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in Visit 07 (2)	243 Secs (486 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(9) SDSSRM320	(9) SDSSRM320	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 07 Pattern 2, Exps 2-2 in Sequence 1-4 Non-Int in Visit 07 (2)	243 Secs (486 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(10) SDSSRM338	(10) SDSSRM338	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Sequence 1-4 Non-Int in Visit 07 Pattern 2, Exps 3-3 in Sequence 1-4 Non-Int in Visit 07 (2)	243 Secs (486 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(10) SDSSRM338	(10) SDSSRM338	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 07 Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in Visit 07 (2)	243 Secs (486 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 15970 - Visit 08 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

Thu Mar 18 23:00:35 GMT 2021

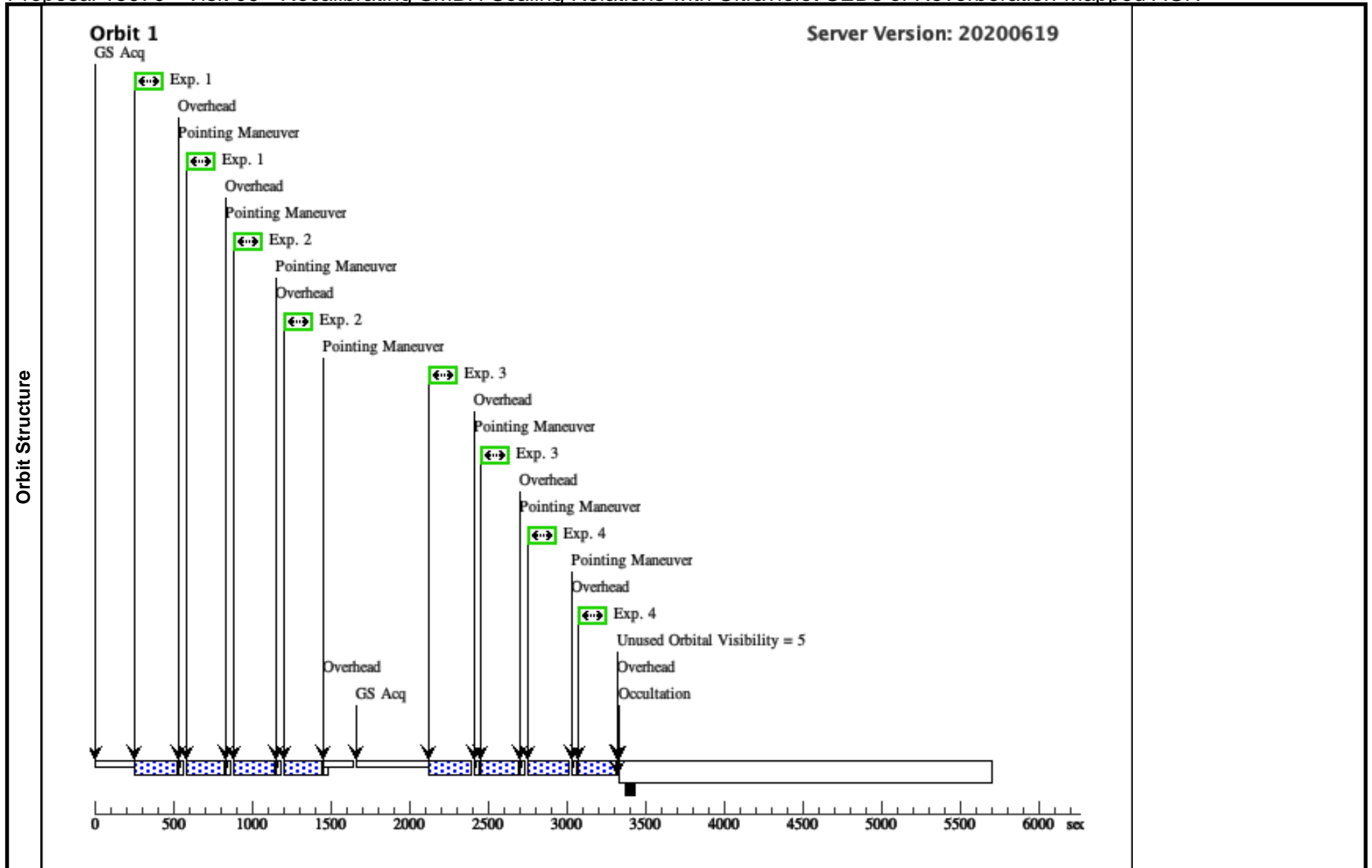
Visit	Proposal 15970, Visit 08, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(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)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	SDSSRM371	RA: 14 11 23.4196 (212.8475817d) Dec: +52 13 31.68 (52.22547d) Equinox: J2000 <i>Comments:</i> Category=GALAXY Description=[QUASAR]		V=(?) u=20.2	Reference Frame: ICRS				
	(16)	SDSSRM551	RA: 14 11 47.0646 (212.9461025d) Dec: +51 56 19.77 (51.93882d) Equinox: J2000 <i>Comments:</i> Category=GALAXY Description=[QUASAR]		V=(?) u=21.6	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(11) SDSSRM371	(11) SDSSRM371	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12	GS ACQ SCENARI O ONEB1B3	Sequence 1-4 Non-Int in Visit 08 Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in Visit 08 (2)	242 Secs (484 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(11) SDSSRM371	(11) SDSSRM371	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 08 Pattern 2, Exps 2-2 in Sequence 1-4 Non-Int in Visit 08 (2)	242 Secs (484 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(16) SDSSRM551	(16) SDSSRM551	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12	GS ACQ SCENARI O ONEB1B3	Sequence 1-4 Non-Int in Visit 08 Pattern 2, Exps 3-3 in Sequence 1-4 Non-Int in Visit 08 (2)	242 Secs (484 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(16) SDSSRM551	(16) SDSSRM551	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 08 Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in Visit 08 (2)	242 Secs (484 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 15970 - Visit 09 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

Thu Mar 18 23:00:35 GMT 2021

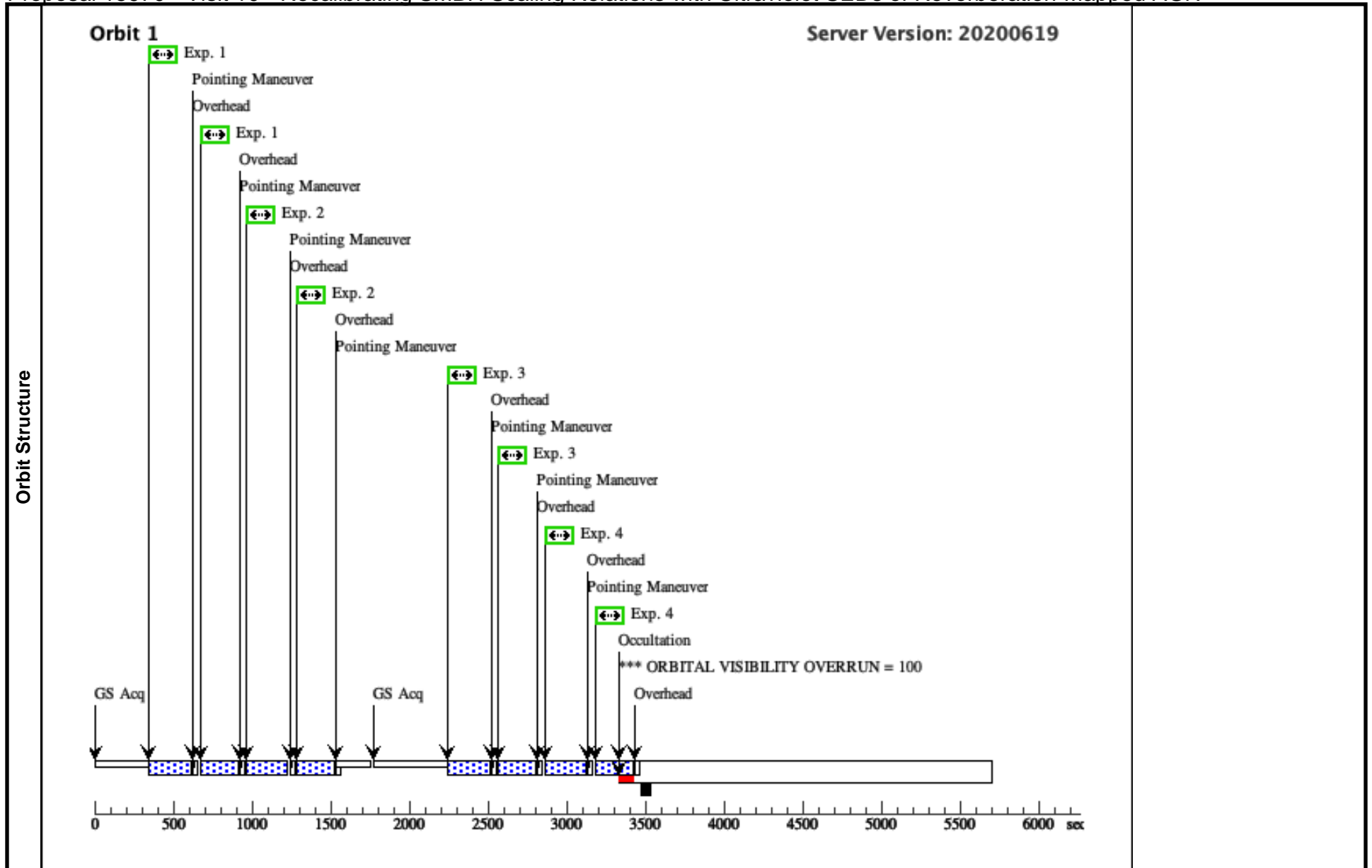
Visit	Proposal 15970, Visit 09, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 225D TO 244.2 D; BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(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)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	SDSSRM457	RA: 14 14 17.1267 (213.5713612d) Dec: +51 57 22.60 (51.95628d) Equinox: J2000		V=(?) u=21.0	Reference Frame: ICRS				
		<i>Comments:</i> Category=GALAXY Description=[QUASAR]								
(15)	SDSSRM519	RA: 14 17 12.2959 (214.3012329d) Dec: +51 56 45.53 (51.94598d) Equinox: J2000		V=(?) u=22.0	Reference Frame: ICRS					
		<i>Comments:</i> Category=GALAXY Description=[QUASAR]								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(14) SDSSRM457	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12	GS ACQ SCENARI O ONEB1B3	Sequence 1-4 Non-Int in Visit 09 Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in Visit 09 (2)	240 Secs (480 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	2	(14) SDSSRM457	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12	Sequence 1-4 Non-Int in Visit 09 Pattern 2, Exps 2-2 in Sequence 1-4 Non-Int in Visit 09 (2)	240 Secs (480 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]		
	3	(15) SDSSRM519	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12	Sequence 1-4 Non-Int in Visit 09 Pattern 2, Exps 3-3 in Sequence 1-4 Non-Int in Visit 09 (2)	240 Secs (480 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]		
	4	(15) SDSSRM519	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12	Sequence 1-4 Non-Int in Visit 09 Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in Visit 09 (2)	240 Secs (480 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]		



Proposal 15970 - Visit 10 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

Thu Mar 18 23:00:35 GMT 2021

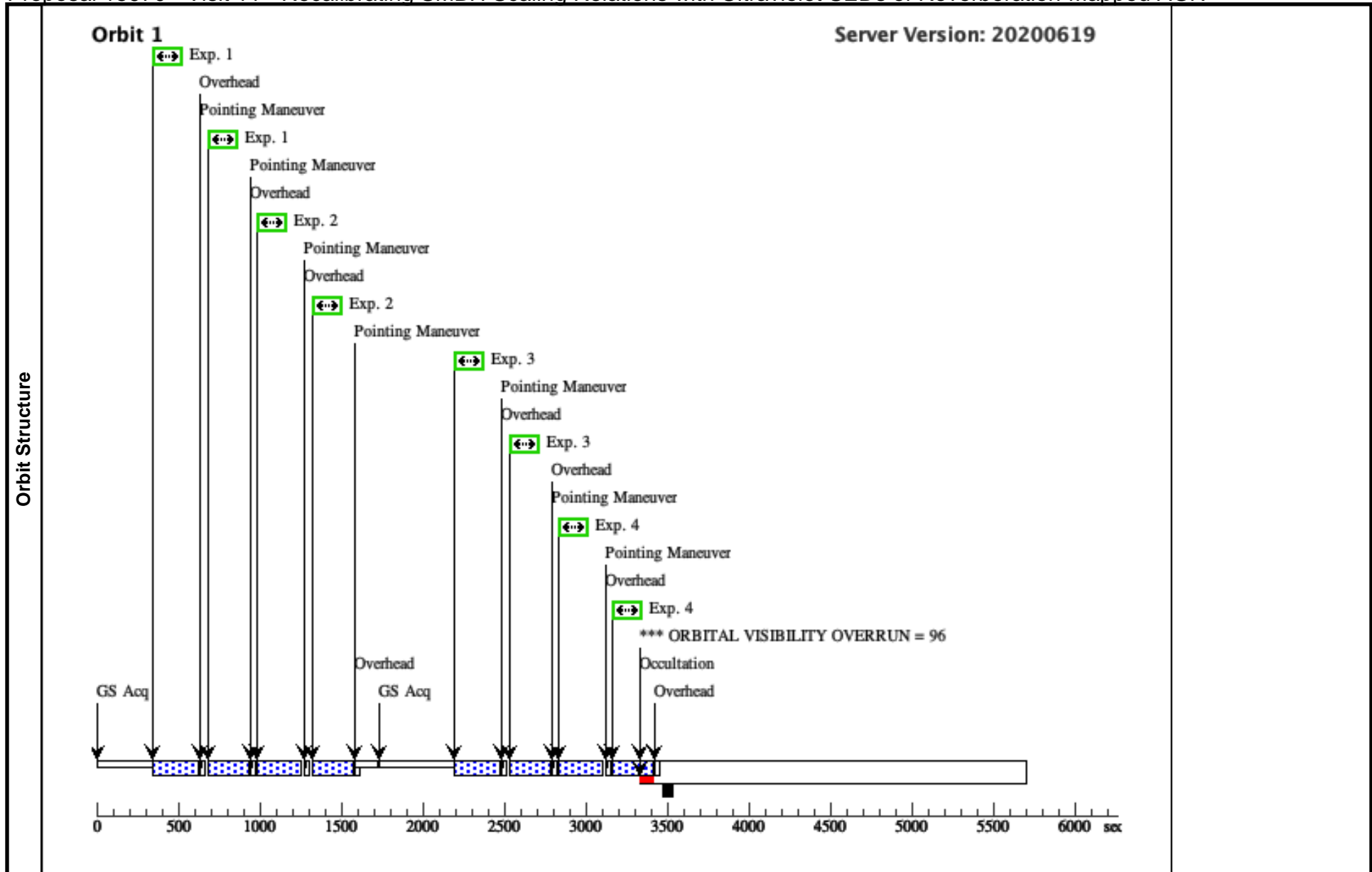
Visit	Proposal 15970, Visit 10, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00									
	(Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(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)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(17)	SDSSRM589	RA: 14 20 49.2812 (215.2053383d) Dec: +52 10 53.30 (52.18147d) Equinox: J2000		V=(?) u=21.6	Reference Frame: ICRS				
	<i>Comments: Category=GALAXY Description=[QUASAR]</i>									
	(21)	SDSSRM694	RA: 14 17 6.6757 (214.2778154d) Dec: +51 43 40.06 (51.72779d) Equinox: J2000		V=(?) u=20.1	Reference Frame: ICRS				
<i>Comments: Category=GALAXY Description=[QUASAR]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(17) SDSSRM589	(17) SDSSRM589	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F336W	FLASH=12		Sequence 1-4 Non-Int in Visit 10 Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in Visit 10 (2)	238 Secs (476 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(17) SDSSRM589	(17) SDSSRM589	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 10 Pattern 2, Exps 2-2 in Sequence 1-4 Non-Int in Visit 10 (2)	238 Secs (476 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(21) SDSSRM694	(21) SDSSRM694	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Sequence 1-4 Non-Int in Visit 10 Pattern 2, Exps 3-3 in Sequence 1-4 Non-Int in Visit 10 (2)	238 Secs (476 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(21) SDSSRM694	(21) SDSSRM694	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 10 Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in Visit 10 (2)	238 Secs (476 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 15970 - Visit 11 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

Thu Mar 18 23:00:35 GMT 2021

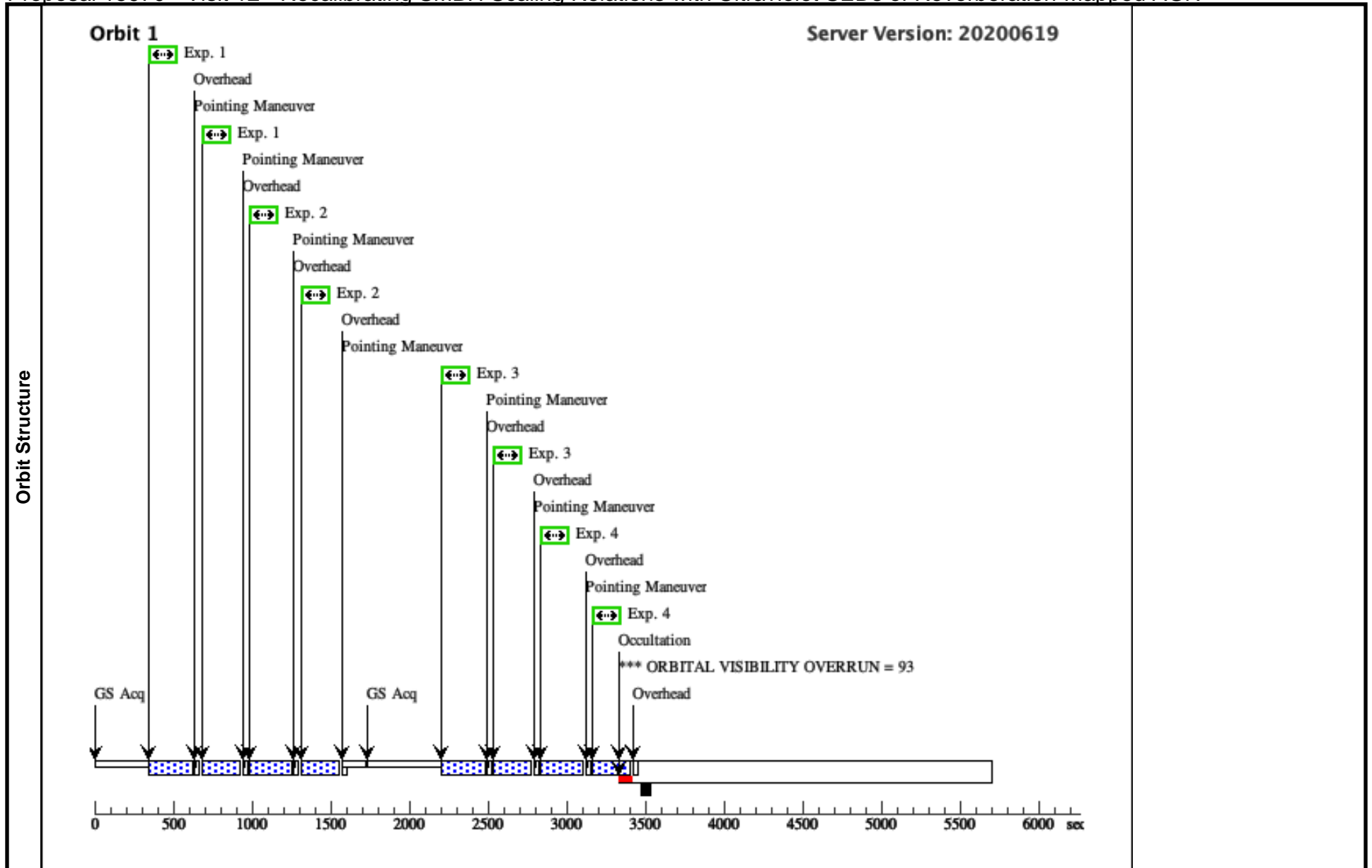
Visit	Proposal 15970, Visit 11, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00									
	(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(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)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(18)	SDSSRM622	RA: 14 11 15.1874 (212.8132808d) Dec: +51 52 8.99 (51.86916d) Equinox: J2000		V=(?) u=20.4	Reference Frame: ICRS				
	<i>Comments: Category=GALAXY Description=[QUASAR]</i>									
	(19)	SDSSRM634	RA: 14 11 35.8877 (212.8995321d) Dec: +51 50 4.52 (51.83459d) Equinox: J2000		V=(?) u=22.3	Reference Frame: ICRS				
<i>Comments: Category=GALAXY Description=[QUASAR]</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(18) SDSSRM622	(18) SDSSRM622	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Sequence 1-4 Non-Int in Visit 11 Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in Visit 11 (2)	248 Secs (496 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(18) SDSSRM622	(18) SDSSRM622	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 11 Pattern 2, Exps 2-2 in Sequence 1-4 Non-Int in Visit 11 (2)	248 Secs (496 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(19) SDSSRM634	(19) SDSSRM634	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Sequence 1-4 Non-Int in Visit 11 Pattern 2, Exps 3-3 in Sequence 1-4 Non-Int in Visit 11 (2)	248 Secs (496 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(19) SDSSRM634	(19) SDSSRM634	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 11 Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in Visit 11 (2)	248 Secs (496 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 15970 - Visit 12 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

Thu Mar 18 23:00:35 GMT 2021

Visit	Proposal 15970, Visit 12, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00										
	Diagnosics (Visit 12) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Patterns	#	Primary Pattern				Secondary Pattern			Exposures		
	(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)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(20)	SDSSRM645	RA: 14 20 39.7958 (215.1658158d) Dec: +52 03 59.72 (52.06659d) Equinox: J2000				V=(?) u=21.3	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[QUASAR]										
	(25)	SDSSRM781	RA: 14 21 3.5289 (215.2647037d) Dec: +51 58 19.47 (51.97208d) Equinox: J2000				V=(?) u=19.9	Reference Frame: ICRS			
<i>Comments:</i> Category=GALAXY Description=[QUASAR]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(20) SDSSRM645	(20) SDSSRM645	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Sequence 1-4 Non-Int in Visit 12 Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in Visit 12 (2)	246 Secs (492 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	2	(20) SDSSRM645	(20) SDSSRM645	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 12 Pattern 2, Exps 2-2 in Sequence 1-4 Non-Int in Visit 12 (2)	246 Secs (492 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	3	(25) SDSSRM781	(25) SDSSRM781	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Sequence 1-4 Non-Int in Visit 12 Pattern 2, Exps 3-3 in Sequence 1-4 Non-Int in Visit 12 (2)	246 Secs (492 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	4	(25) SDSSRM781	(25) SDSSRM781	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 12 Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in Visit 12 (2)	246 Secs (492 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	



Proposal 15970 - Visit 13 - Recalibrating SMBH Scaling Relations with Ultraviolet SEDs of Reverberation-Mapped AGN

Thu Mar 18 23:00:35 GMT 2021

Visit	Proposal 15970, Visit 13, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-FEB-2020:00:00:00 AND 15-JUL-2020:00:00:00; BETWEEN 01-FEB-2021:00:00:00 AND 15-JUL-2021:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(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)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(24)	SDSSRM779	RA: 14 19 23.3663 (214.8473596d) Dec: +54 22 1.73 (54.36715d) Equinox: J2000 <i>Comments:</i> Category=GALAXY Description=[QUASAR]		V=(?) u=20.3	Reference Frame: ICRS				
	(26)	SDSSRM840	RA: 14 16 45.1500 (214.1881250d) Dec: +54 25 40.75 (54.42799d) Equinox: J2000 <i>Comments:</i> Category=GALAXY Description=[QUASAR]		V=(?) u=19.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(24) SDSSRM779	(24) SDSSRM779	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Sequence 1-4 Non-Int in Visit 13 Pattern 2, Exps 1-1 in Sequence 1-4 Non-Int in Visit 13 (2)	241 Secs (482 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(24) SDSSRM779	(24) SDSSRM779	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 13 Pattern 2, Exps 2-2 in Sequence 1-4 Non-Int in Visit 13 (2)	241 Secs (482 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(26) SDSSRM840	(26) SDSSRM840	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12	GS ACQ SCENARIO ONEB1B3	Sequence 1-4 Non-Int in Visit 13 Pattern 2, Exps 3-3 in Sequence 1-4 Non-Int in Visit 13 (2)	241 Secs (482 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	(26) SDSSRM840	(26) SDSSRM840	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F275W	FLASH=12		Sequence 1-4 Non-Int in Visit 13 Pattern 2, Exps 4-4 in Sequence 1-4 Non-Int in Visit 13 (2)	241 Secs (482 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]

