



# 15181 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclear black hole activity

Cycle: 25, 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) NGC4224	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:02:50.0	yes
02	(2) NGC5037	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:02:51.0	yes

Proposal 15181 (STScI Edit Number: 1, Created: Tuesday, January 15, 2019 at 11:03:08 AM Eastern Standard Time) - Overview

<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>
03	(3) NGC718	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:02:52.0	yes
04	(4) MCG-05-14-012	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:02:53.0	yes
05	(5) ESO021-G004	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:02:54.0	yes
06	(6) NGC1947	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:02:55.0	yes
07	(7) IC4653	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:02:56.0	yes
08	(8) NGC1315	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:02:57.0	yes
09	(9) ESO093-G003	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:02:58.0	yes
10	(10) NGC3175	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:02:59.0	yes
11	(11) NGC3749	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:03:00.0	yes
12	(12) NGC3717	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:03:02.0	yes
13	(13) MCG-05-23-016	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:03:03.0	yes
14	(14) ESO208-G021	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:03:04.0	yes
15	(15) NGC7213	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:03:05.0	yes
16	(19) NGC3783-OFFSET	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:03:06.0	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>
17	(17) NGC7172	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:03:06.0	yes
18	(18) MCG-06-30-015	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:03:07.0	yes
58	(18) MCG-06-30-015	WFC3/IR WFC3/UVIS	1	15-Jan-2019 11:03:08.0	yes

19 Total Orbits Used

## **ABSTRACT**

The well-known connections between super-massive black holes and their host galaxies are set by the flow of gas through the circum-nuclear environment. We are currently undertaking a detailed study of the processes that govern these multi-phase, complex flows using deep, high-resolution VLT/SINFONI IFU data and VLT/XSHOOTER spectroscopy from the optical to the near-IR. A novel feature of our program is the uniform analysis of both luminous AGN and carefully matched inactive galaxies. This provides a comparative baseline of the relevant astrophysics with enough numbers for a statistical treatment.

An essential input to our study is the small-scale, filamentary structure of cold gas, best visible in dust maps based on multi-band imaging with the HST. Unfortunately, suitable archival imaging is greatly weighted towards the AGN in our sample, and over half of the inactive control have never been observed with HST. Here we propose to correct this imbalance through broad-band optical and NIR imaging of 21 galaxies with the HST/WFC3 camera. The combination of sensitive optical and NIR imaging and spectroscopic constraints at sub-arcsecond resolution will enable a uniquely detailed view of the circum-nuclear environment in our entire sample, with which we will study the dynamics of gaseous inflows and outflows, excitation conditions and black hole feedback with unprecedented contextual accuracy.

## **OBSERVING DESCRIPTION**

We will observe 18 nearby galaxies with the WFC3 instrument in two filters. These observations will be used to derive detailed dust maps of the central regions of the galaxies and support ancillary datasets from the LLAMA program.

All galaxies will be observed for one orbit each. An orbit will consist of a sequence of one set of exposures with the WFC3 IR channel and the

F160W filter, and a second set of exposures with the WFC3 UVIS channel and the F606W filter.

Visits 01-14 share the same approach, consisting of a 3 point line dither pattern of the WFC3/IR channel (NSAMP=8-10; SAMP-SEQ=SPAR25 for each subexposure), followed by a 4 point dither of the WFC3/UVIS channel with a variable subexposure integration to fill the rest of the orbit. The UVIS dither pattern is the GAP-LINE primary dither with a DITHER-LINE secondary dither. The UVIS exposures will be 1500 to 1600 s in total, while the IR exposures will be 700 to 900 s in total.

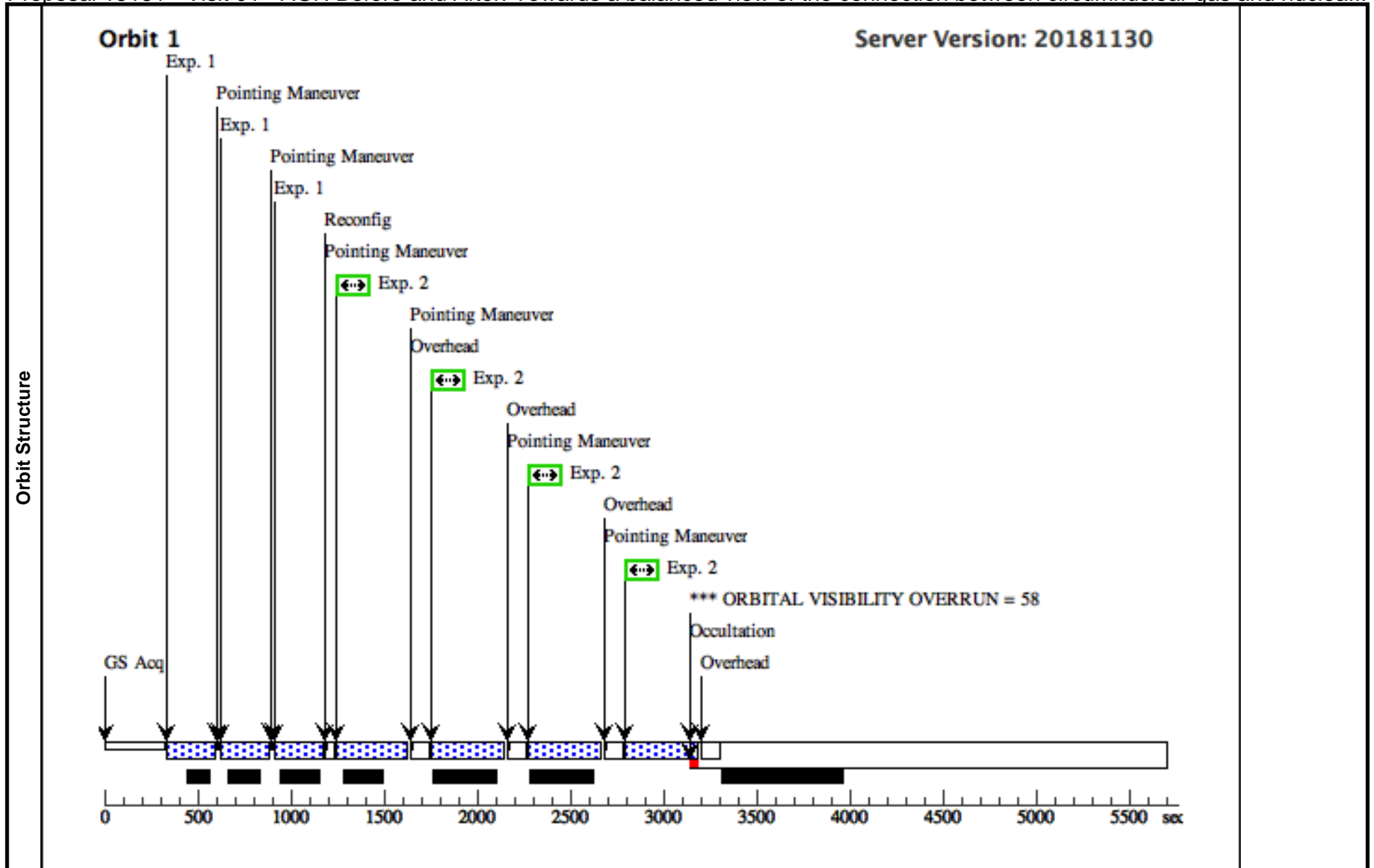
Visits 15-18 are designed to achieve longer exposures in the IR channel, since these galaxies have archival optical data of moderate quality. Short to medium UVIS exposures are taken to help with registration to archival images, as well as to improve coverage of the galaxy.

For these visits, the IR channel exposures use a 4 point dither which is either the DITHER-BLOB with a DITHER-LINE secondary dither, or the DITHER-BOX-UVIS to cover a larger area. The UVIS channel exposures are broken into two sub-exposures that use the UVIS-GAP-LINE 2 point dither pattern. Exposure times are adapted individually for each target.

Special case for Visit 16: An offset from the center of the main target (NGC 3783) is used to minimise overlap of the exposures with a bright star that lies SE of the galaxy. An Orientation restriction has been added to ensure that the UVIS chip gap does not overlap with the galaxy nucleus, the part of the field which requires the deepest coverage.

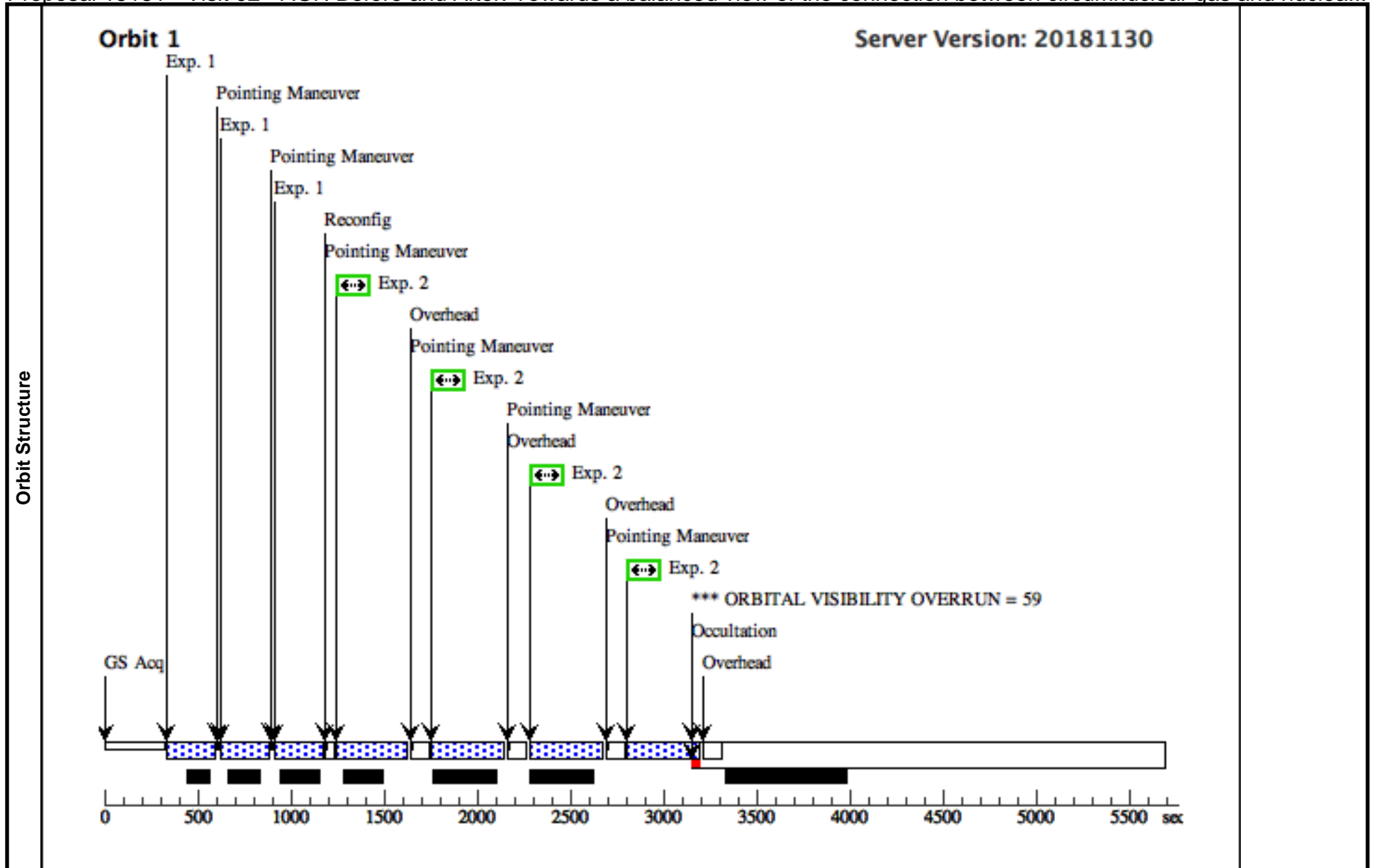
Proposal 15181 - Visit 01 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

<b>Visit</b>	<b>Proposal 15181, Visit 01, completed</b> <span style="float: right;">Tue Jan 15 16:03:09 GMT 2019</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	<b>Diagnostics</b> (Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(2)						
(2)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=41.788 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.605 Line Spacing=		(1)							
<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)	NGC4224	RA: 12 16 33.8000 (184.1408333d) Dec: +07 27 44.00 (7.46222d) Equinox: J2000		V=12.8	Reference Frame: ICRS				
<i>Comments:</i> Category=GALAXY Description=[NUCLEUS]										
<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 (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(1) NGC4224	(1) NGC4224	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 1-1 i n Visit 01 (2)	227.936926 Secs (683.811 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2	(1) NGC4224	(1) NGC4224	WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 i n Visit 01 (1) 400 Secs (1527 Secs) [==>348.0 Secs (Pattern 1,1)] [==>393.0 Secs (Pattern 1,2)] [==>393.0 Secs (Pattern 2,1)] [==>393.0 Secs (Pattern 2,2)]	[1]	



Proposal 15181 - Visit 02 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

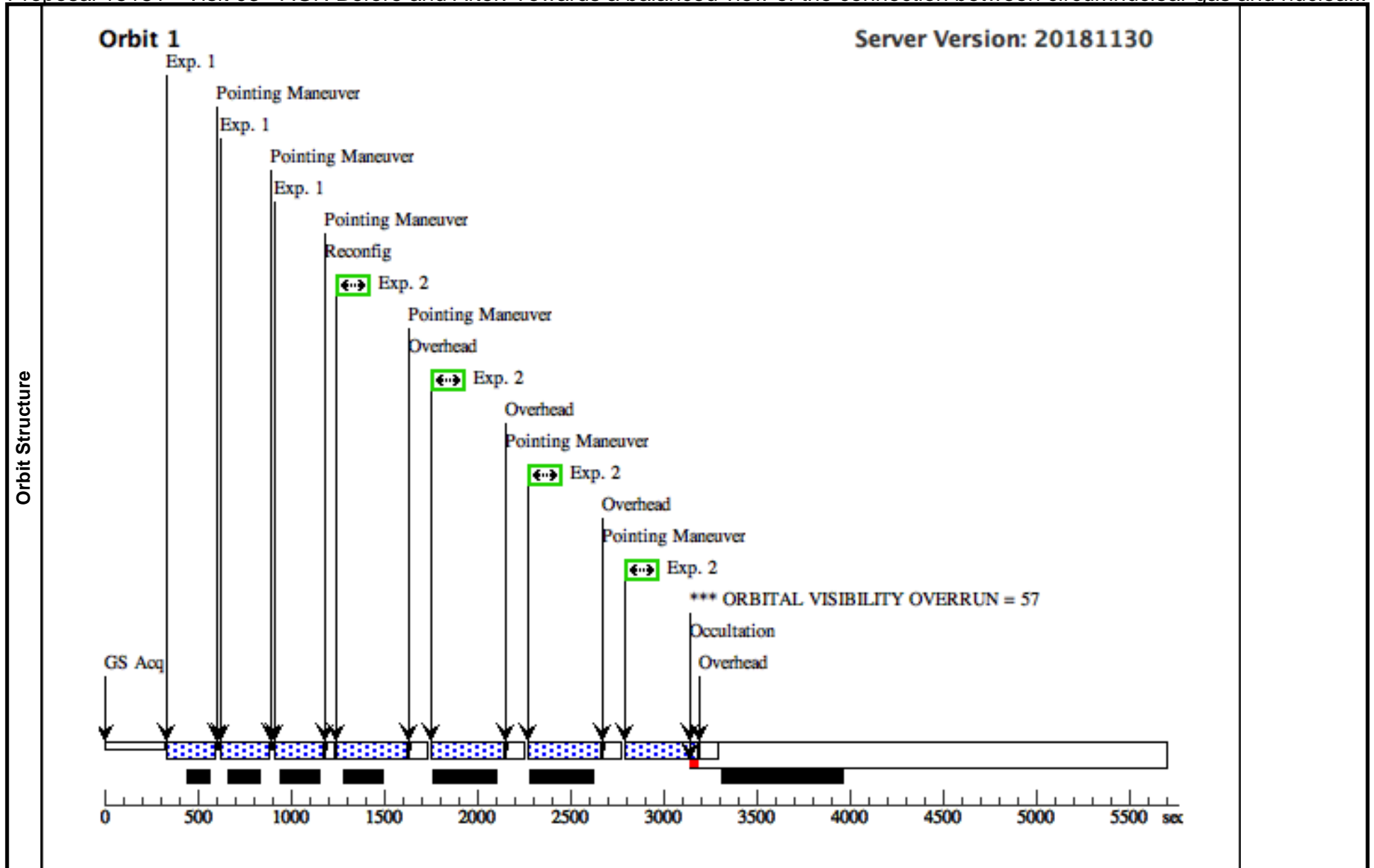
<b>Visit</b>	<b>Proposal 15181, Visit 02, completed</b> <span style="float: right;">Tue Jan 15 16:03:09 GMT 2019</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	<b>Diagnosics</b> (Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(2)						
(2)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=41.788 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.605 Line Spacing=		(1)							
<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)	NGC5037	RA: 13 14 59.4000 (198.7475000d) Dec: -16 35 25.00 (-16.59028d) Equinox: J2000		V=12.2	Reference Frame: ICRS				
<i>Comments:                  Category=GALAXY                  Description=[NUCLEUS]</i>										
<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 (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1		(2) NGC5037	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 1-1 i n Visit 02 (2)	227.936926 Secs (683.811 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2		(2) NGC5037	WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 i n Visit 02 (1)	400 Secs (1539 Secs) [==>351.0 Secs (Pattern 1,1)] [==>396.0 Secs (Pattern 1,2)] [==>396.0 Secs (Pattern 2,1)] [==>396.0 Secs (Pattern 2,2)]	[1]



Proposal 15181 - Visit 03 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

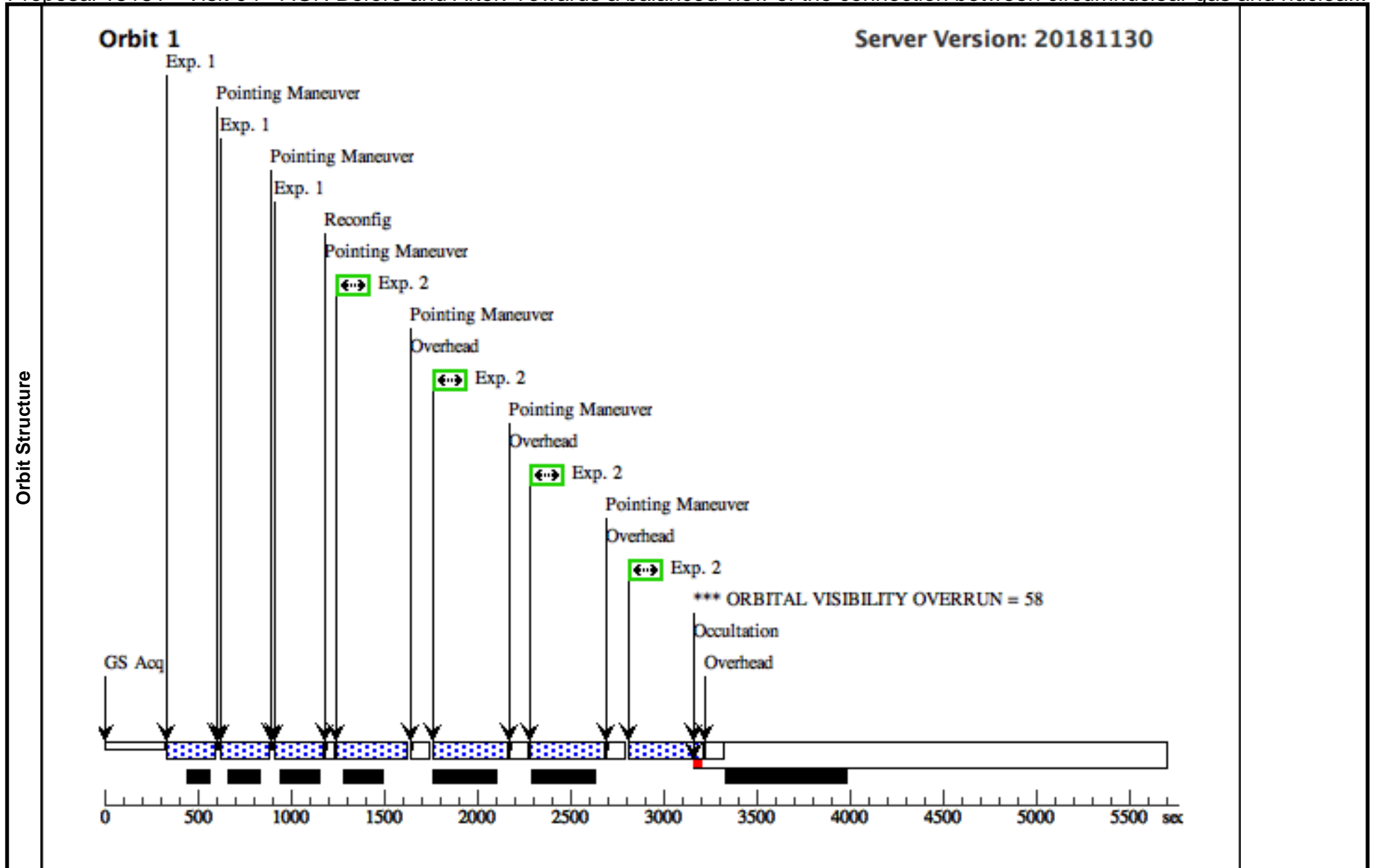
Tue Jan 15 16:03:09 GMT 2019

<b>Visit</b>	<b>Proposal 15181, Visit 03, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	(Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- LINE    Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2    Center Pattern=false Point Spacing=0.145 Line Spacing=	(2)						
(2)	Pattern Type=WFC3-IR-DITHER- LINE-3PT    Coordinate Frame=POS-TARG Pattern Orientation=41.788 Purpose=DITHER Angle Between Sides= Number Of Points=3    Center Pattern=false Point Spacing=0.605 Line Spacing=		(1)							
<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)	NGC718	RA: 01 53 13.3000 (28.3054167d) Dec: +04 11 45.00 (4.19583d) Equinox: J2000		V=11.5	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[NUCLEUS]										
<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 (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(3) NGC718		WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 1-1 i n Visit 03 (2)	227.936926 Secs (683.811 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2	(3) NGC718		WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 i n Visit 03 (1)	400 Secs (1523 Secs) [==>347.0 Secs (Pattern 1,1)] [==>392.0 Secs (Pattern 1,2)] [==>392.0 Secs (Pattern 2,1)] [==>392.0 Secs (Pattern 2,2)]	[1]



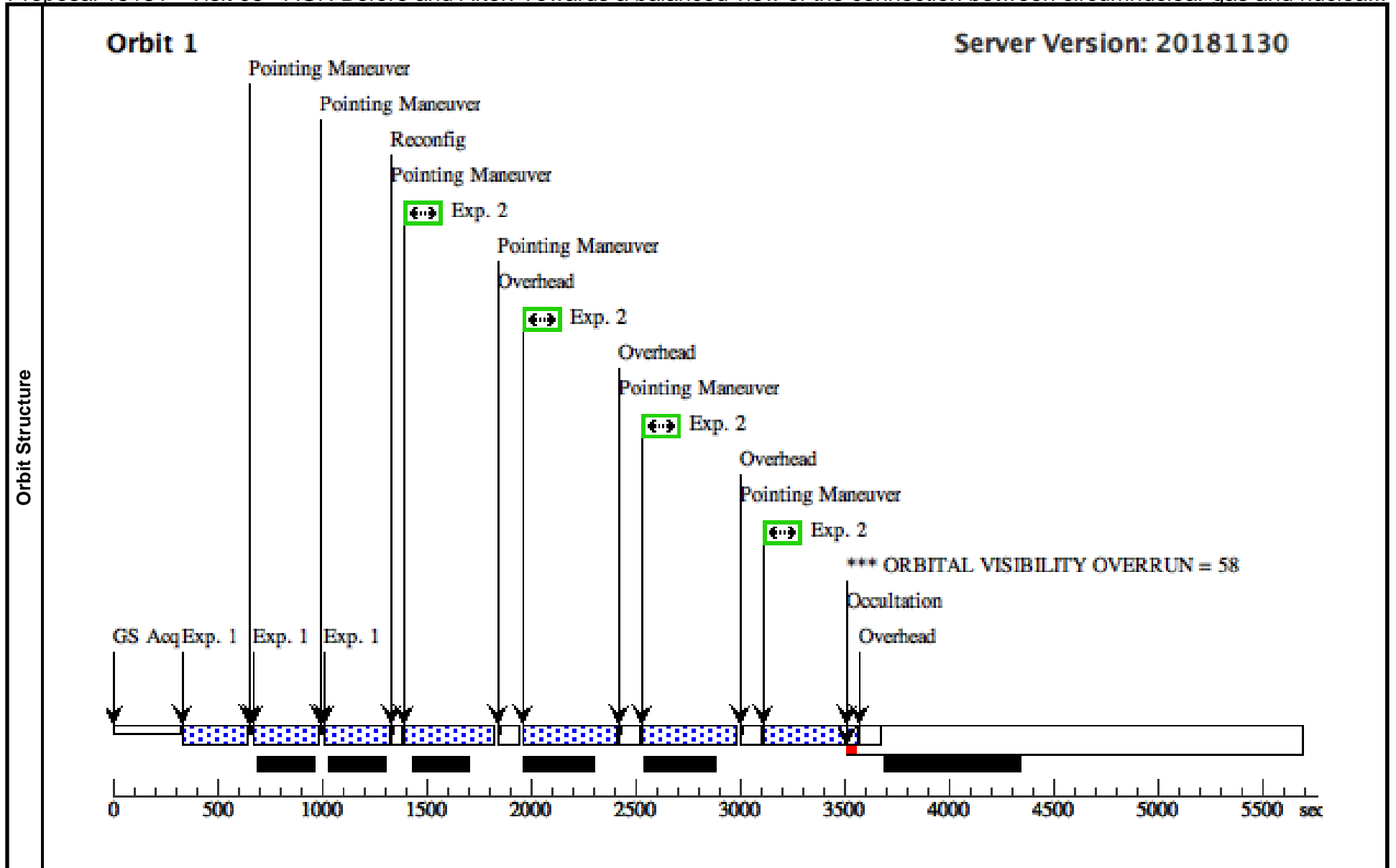
Proposal 15181 - Visit 04 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

Visit	<b>Proposal 15181, Visit 04, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					Tue Jan 15 16:03:09 GMT 2019				
Diagnostics	(Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=46.84 Number Of Points=2 Angle Between Sides= Point Spacing=0.145 Center Pattern=false Line Spacing=	(2)						
(2)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=41.788 Number Of Points=3 Angle Between Sides= Point Spacing=0.605 Center Pattern=false Line Spacing=		(1)							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	MCG-05-14-012	RA: 05 43 32.9000 (85.8870833d) Dec: -27 39 5.00 (-27.65139d) Equinox: J2000		V=13.5	Reference Frame: ICRS				
<i>Comments:</i> Category=GALAXY Description=[NUCLEUS, SEYFERT]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) MCG-05-14-012	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S25			Pattern 2, Exps 1-1 i n Visit 04 (2)	227.936926 Secs (683.811 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2	(4) MCG-05-14-012	WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 i n Visit 04 (1)	400 Secs (1547 Secs) [==>353.0 Secs (Pattern 1,1)] [==>398.0 Secs (Pattern 1,2)] [==>398.0 Secs (Pattern 2,1)] [==>398.0 Secs (Pattern 2,2)]	[1]	



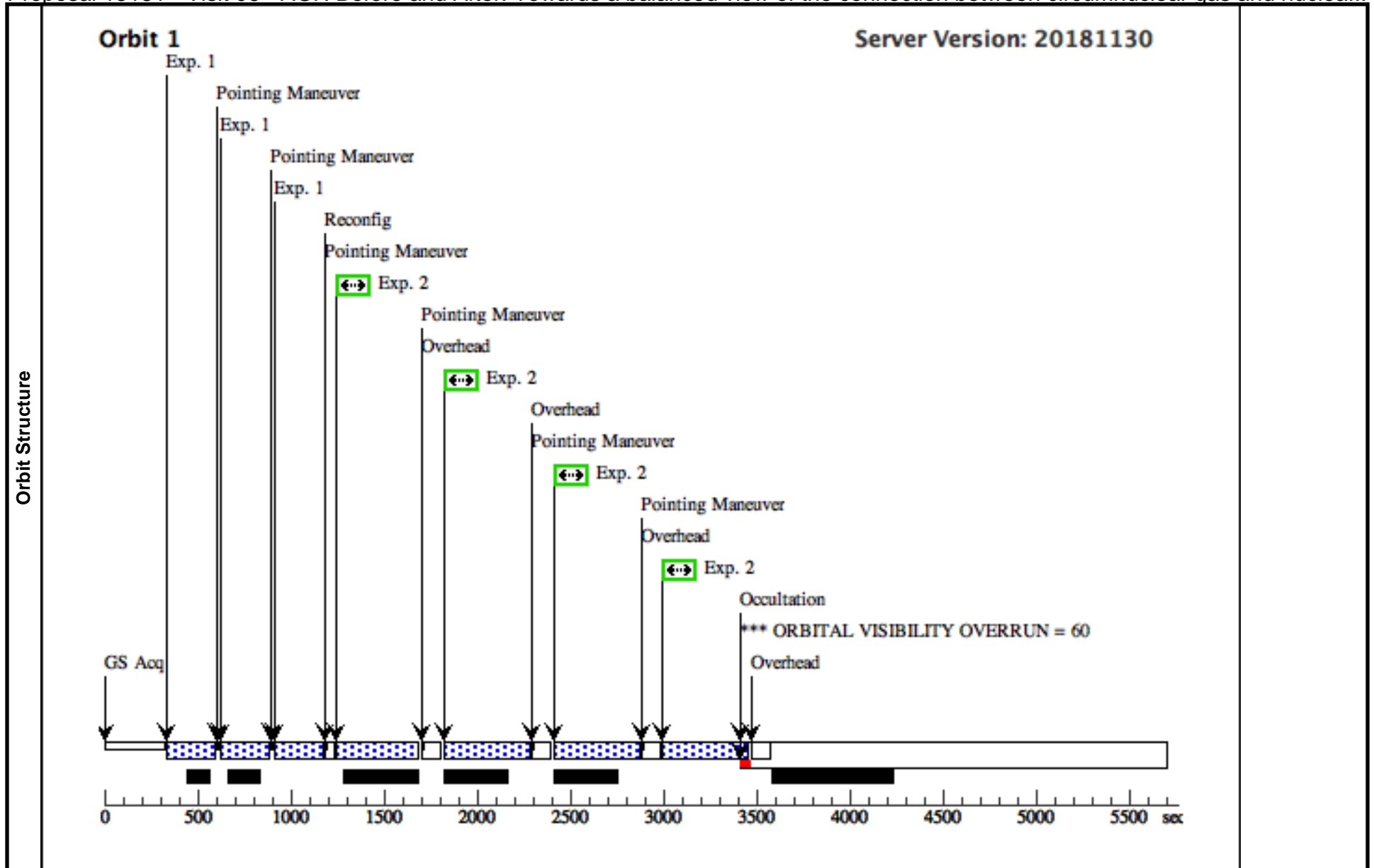
Proposal 15181 - Visit 05 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

<b>Visit</b>	<b>Proposal 15181, Visit 05, completed</b> <span style="float: right;">Tue Jan 15 16:03:09 GMT 2019</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	<b>Diagnosics</b> (Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- LINE    Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Number Of Points=2    Angle Between Sides= Point Spacing=0.145    Center Pattern=false Line Spacing=	(2)						
(2)	Pattern Type=WFC3-IR-DITHER- LINE-3PT    Coordinate Frame=POS-TARG Pattern Orientation=41.788 Purpose=DITHER Number Of Points=3    Angle Between Sides= Point Spacing=0.605    Center Pattern=false Line Spacing=		(1)							
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(5)	ESO021-G004	RA: 13 32 40.6000 (203.1691667d) Dec: -77 50 41.00 (-77.84472d) Equinox: J2000		V=13.2	Reference Frame: ICRS				
<i>Comments:</i> Category=GALAXY Description=[NUCLEUS, SEYFERT]										
<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 (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(5) ESO021-G004	(5) ESO021-G004	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=12; SAMP-SEQ=SPAR S25		Pattern 2, Exps 1-1 i n Visit 05 (2)	277.937956 Secs (833.814 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2	(5) ESO021-G004	(5) ESO021-G004	WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 i n Visit 05 (1) 400 Secs (1751 Secs) [==>404.0 Secs (Pattern 1,1)] [==>449.0 Secs (Pattern 1,2)] [==>449.0 Secs (Pattern 2,1)] [==>449.0 Secs (Pattern 2,2)]	[1]	



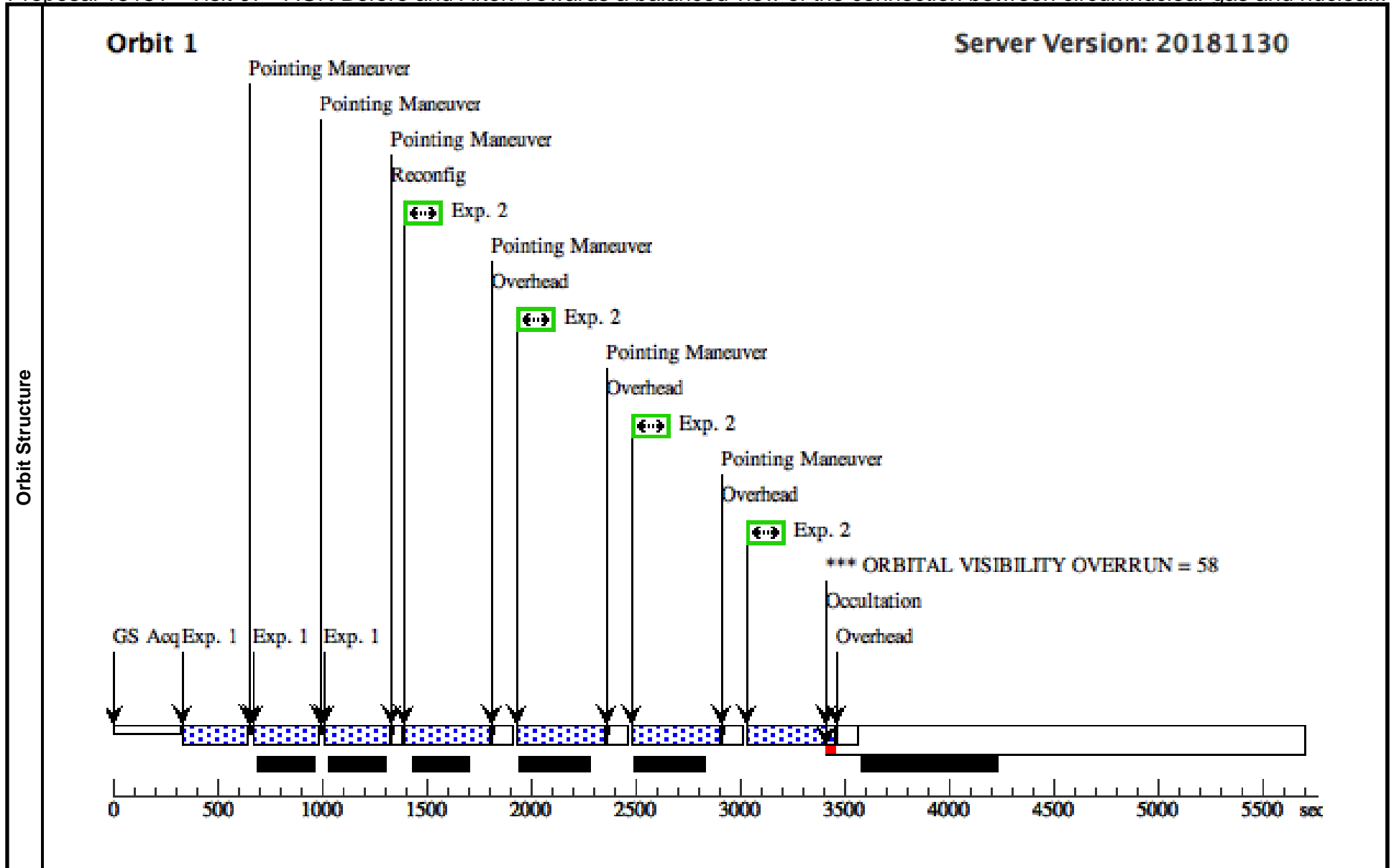
Proposal 15181 - Visit 06 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

Visit	<b>Proposal 15181, Visit 06, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					Tue Jan 15 16:03:09 GMT 2019				
Diagnostics	(Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=46.84 Number Of Points=2 Angle Between Sides= Point Spacing=0.145 Center Pattern=false Line Spacing=	(2)						
(2)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=41.788 Number Of Points=3 Angle Between Sides= Point Spacing=0.605 Center Pattern=false Line Spacing=		(1)							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	NGC1947	RA: 05 26 47.6000 (81.6983333d) Dec: -63 45 36.00 (-63.76000d) Equinox: J2000		V=11.5	Reference Frame: ICRS				
<i>Comments:</i> Category=GALAXY Description=[NUCLEUS]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) NGC1947	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S25			Pattern 2, Exps 1-1 i n Visit 06 (2)	227.936926 Secs (683.811 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2	(6) NGC1947	WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 i n Visit 06 (1)	400 Secs (1795 Secs) [=>415.0 Secs (Pattern 1,1)] [=>460.0 Secs (Pattern 1,2)] [=>460.0 Secs (Pattern 2,1)] [=>460.0 Secs (Pattern 2,2)]	[1]	



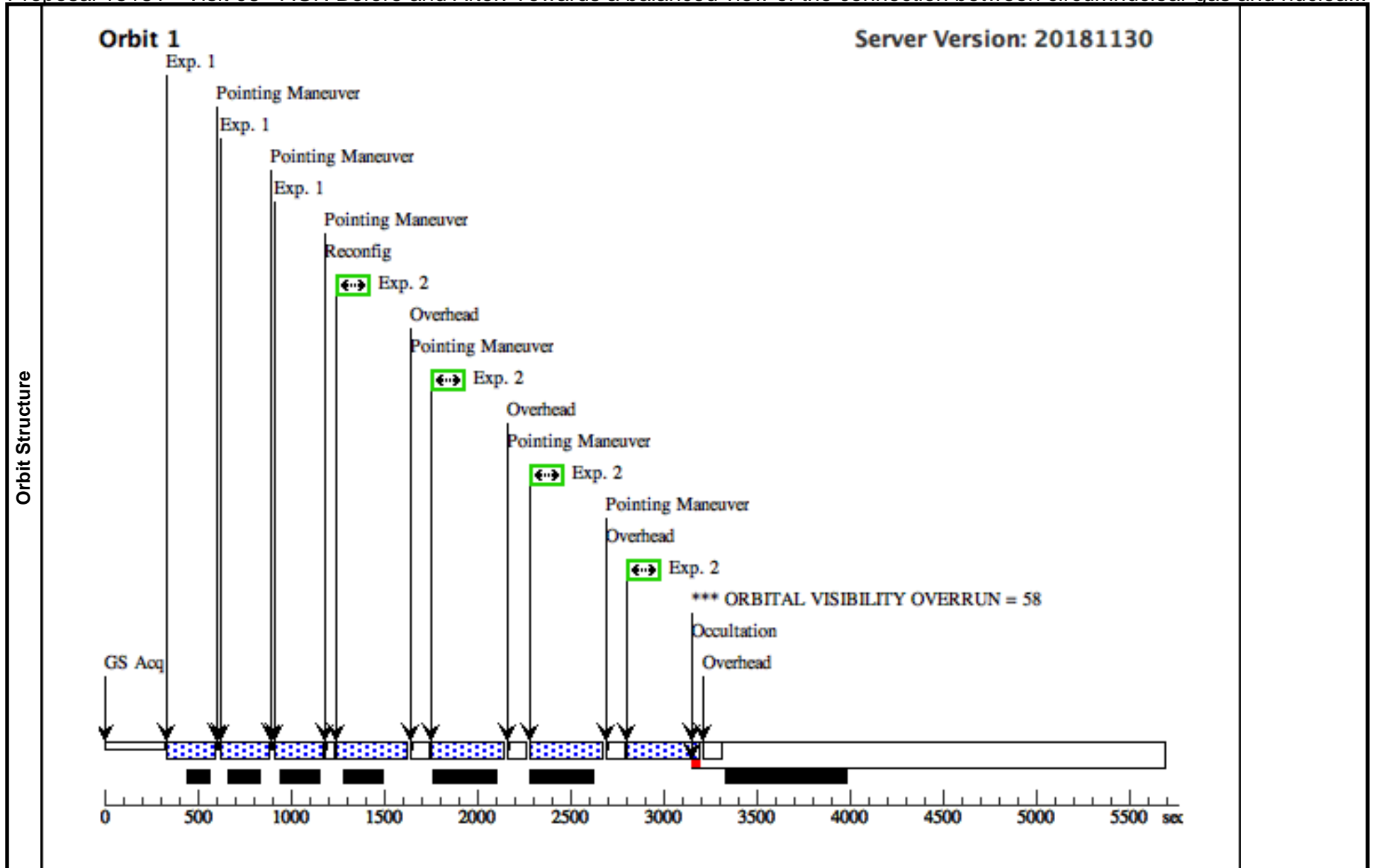
Proposal 15181 - Visit 07 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

<b>Visit</b>	<b>Proposal 15181, Visit 07, completed</b> <span style="float: right;">Tue Jan 15 16:03:09 GMT 2019</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	<b>Diagnostics</b> (Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(2)						
(2)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=41.788 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.605 Line Spacing=		(1)							
<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)	IC4653	RA: 17 27 6.9000 (261.7787500d) Dec: -60 52 45.00 (-60.87917d) Equinox: J2000		V=12.2	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[NUCLEUS]									
<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 (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(7) IC4653	(7) IC4653	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=12; SAMP-SEQ=SPAR S25		Pattern 2, Exps 1-1 i n Visit 07 (2)	277.937956 Secs (833.814 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2	(7) IC4653	(7) IC4653	WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 i n Visit 07 (1)	400 Secs (1643 Secs) [==>377.0 Secs (Pattern 1,1)] [==>422.0 Secs (Pattern 1,2)] [==>422.0 Secs (Pattern 2,1)] [==>422.0 Secs (Pattern 2,2)]	[1]



Proposal 15181 - Visit 08 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

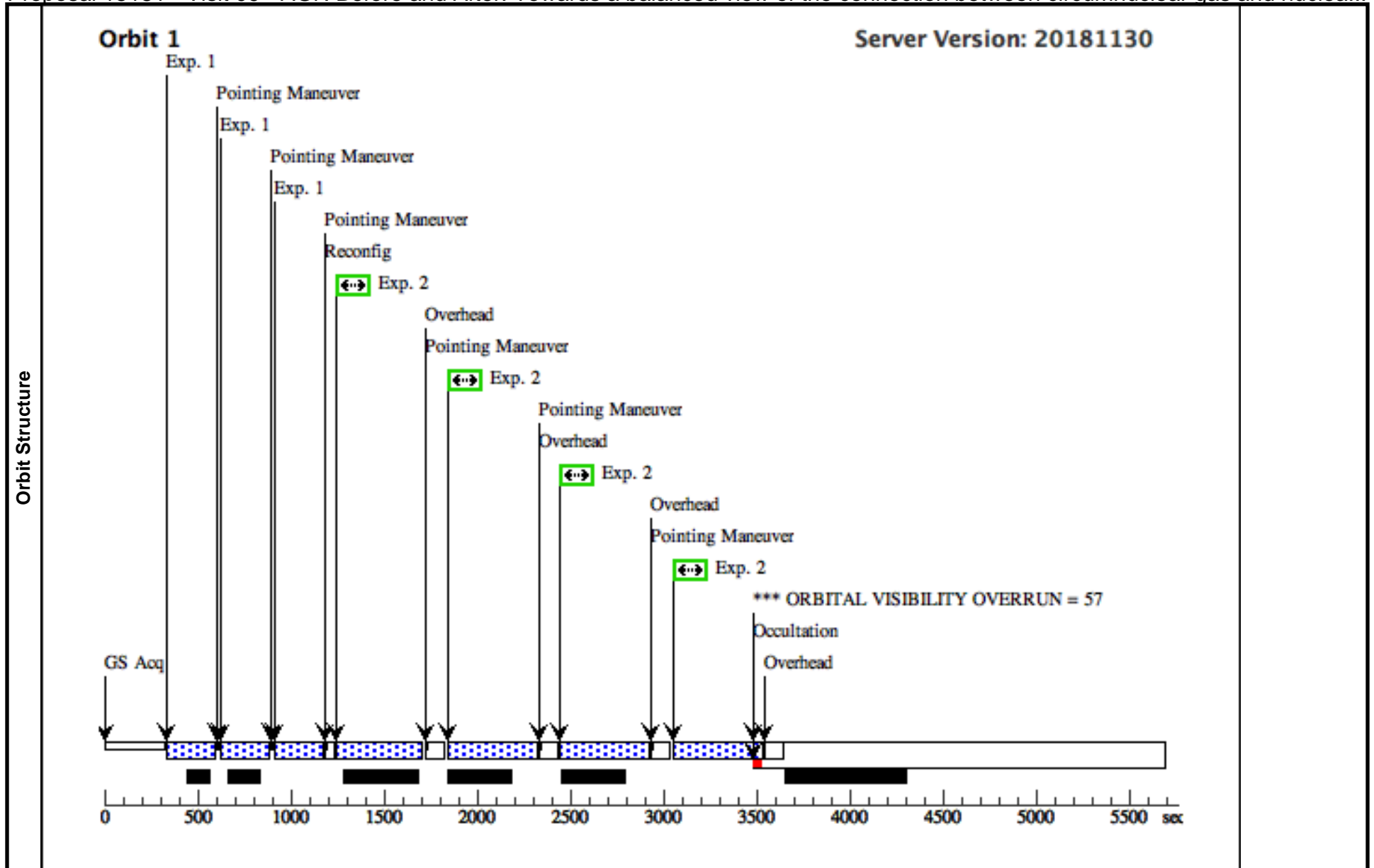
<b>Visit</b>	<b>Proposal 15181, Visit 08, completed</b> <span style="float: right;">Tue Jan 15 16:03:09 GMT 2019</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	<b>Diagnosics</b> (Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- LINE    Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2    Center Pattern=false Point Spacing=0.145 Line Spacing=	(2)						
(2)	Pattern Type=WFC3-IR-DITHER- LINE-3PT    Coordinate Frame=POS-TARG Pattern Orientation=41.788 Purpose=DITHER Angle Between Sides= Number Of Points=3    Center Pattern=false Point Spacing=0.605 Line Spacing=		(1)							
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(8)	NGC1315	RA: 03 23 6.6000 (50.7775000d) Dec: -21 22 31.00 (-21.37528d) Equinox: J2000		V=13.0	Reference Frame: ICRS				
<i>Comments:                  Category=GALAXY                  Description=[NUCLEUS]</i>										
<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 (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(8) NGC1315	(8) NGC1315	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 1-1 i n Visit 08 (2)	227.936926 Secs (683.811 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2	(8) NGC1315	(8) NGC1315	WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 i n Visit 08 (1) 400 Secs (1539 Secs) [==>351.0 Secs (Pattern 1,1)] [==>396.0 Secs (Pattern 1,2)] [==>396.0 Secs (Pattern 2,1)] [==>396.0 Secs (Pattern 2,2)]	[1]	



Proposal 15181 - Visit 09 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

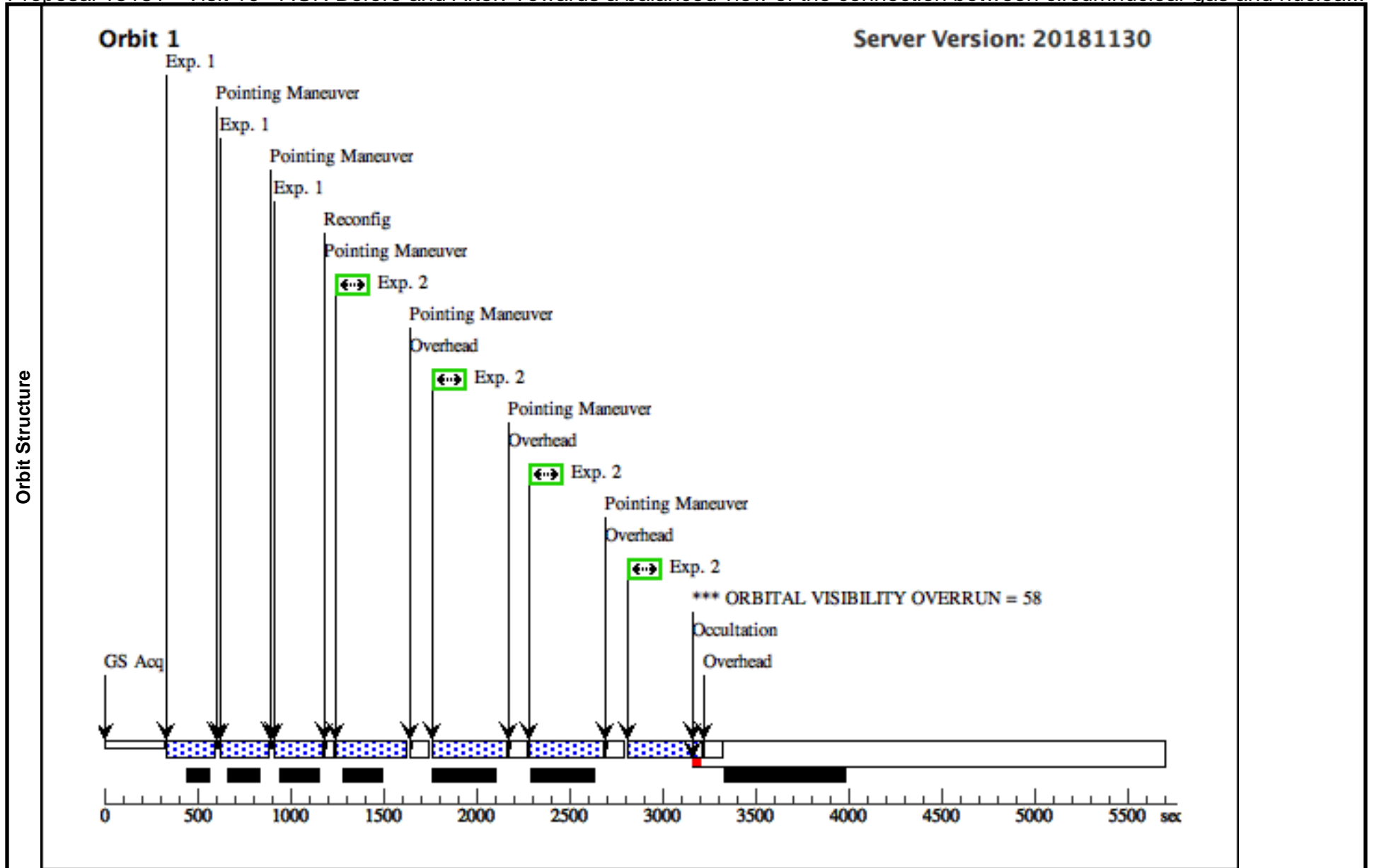
Tue Jan 15 16:03:09 GMT 2019

<b>Visit</b>	<b>Proposal 15181, Visit 09, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- LINE    Coordinate Frame=POS-TARG Purpose=DITHER                            Pattern Orientation=46.84 Number Of Points=2                        Angle Between Sides= Point Spacing=0.145                        Center Pattern=false Line Spacing=	(2)						
(2)	Pattern Type=WFC3-IR-DITHER- LINE-3PT                                    Coordinate Frame=POS-TARG Purpose=DITHER                            Pattern Orientation=41.788 Number Of Points=3                        Angle Between Sides= Point Spacing=0.605                        Center Pattern=false Line Spacing=		(1)							
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(9)	ESO093-G003	RA: 10 59 26.0000 (164.8583333d) Dec: -66 19 58.00 (-66.33278d) Equinox: J2000		V=13.5	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[NUCLEUS]										
<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 (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(9) ESO093-G003	(9) ESO093-G003	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 1-1 i n Visit 09 (2)	227.936926 Secs (683.811 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2	(9) ESO093-G003	(9) ESO093-G003	WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 i n Visit 09 (1)	400 Secs (1867 Secs) [==>433.0 Secs (Pattern 1,1)] [==>478.0 Secs (Pattern 1,2)] [==>478.0 Secs (Pattern 2,1)] [==>478.0 Secs (Pattern 2,2)]	[1]



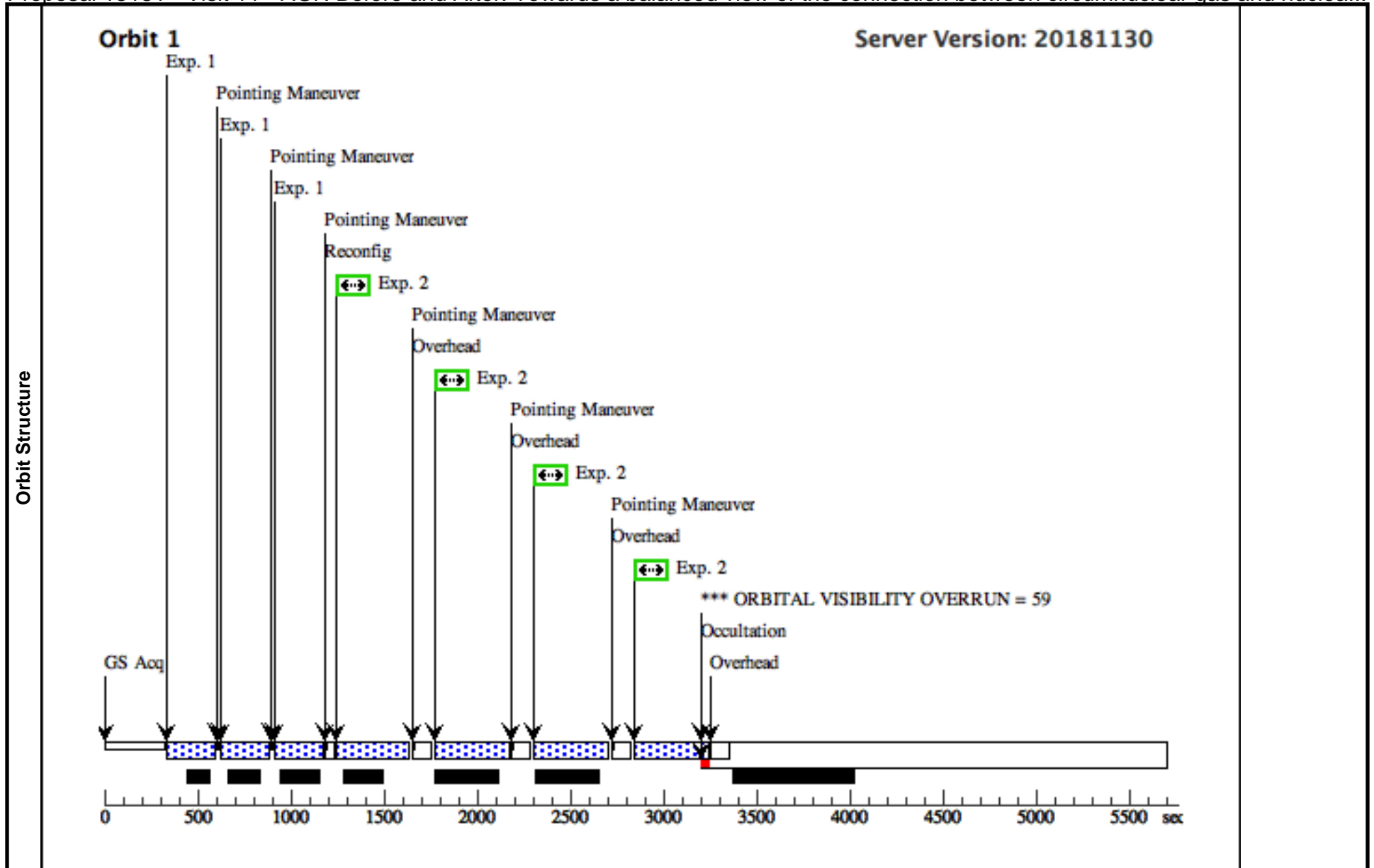
Proposal 15181 - Visit 10 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

Visit	<b>Proposal 15181, Visit 10, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					Tue Jan 15 16:03:09 GMT 2019				
Diagnostics	(Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(2)						
	(2)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=41.788 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.605 Line Spacing=		(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	NGC3175	RA: 10 14 42.1000 (153.6754167d) Dec: -28 52 19.00 (-28.87194d) Equinox: J2000		V=11.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(10) NGC3175	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S25			Pattern 2, Exps 1-1 i n Visit 10 (2)	227.936926 Secs (683.811 Secs)	
	2	(10) NGC3175	WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 i n Visit 10 (1)	400 Secs (1547 Secs)	[1]
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
								[==>353.0 Secs (Pattern 1,1)] [==>398.0 Secs (Pattern 1,2)] [==>398.0 Secs (Pattern 2,1)] [==>398.0 Secs (Pattern 2,2)]	[1]	



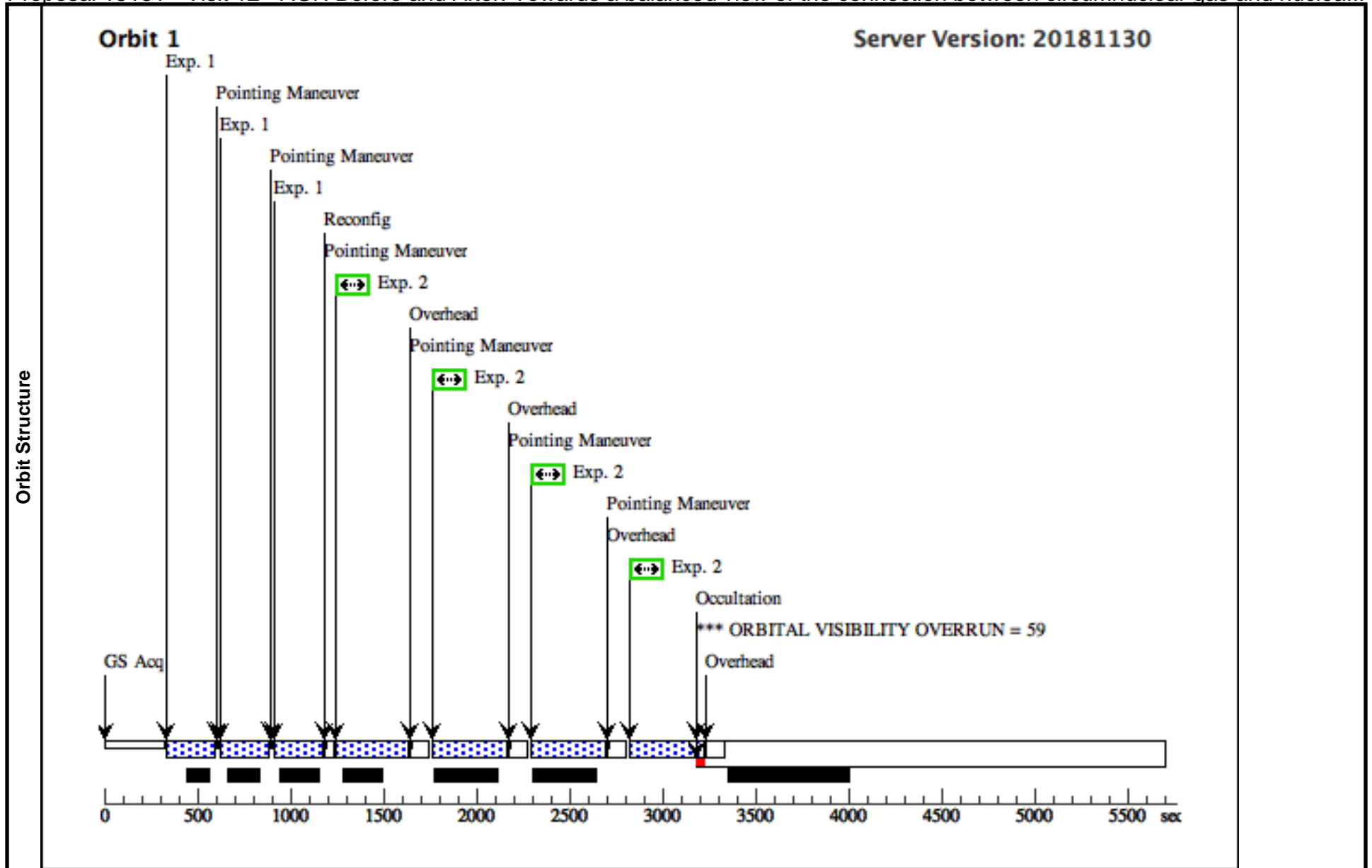
Proposal 15181 - Visit 11 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

<b>Visit</b>	<b>Proposal 15181, Visit 11, completed</b> <span style="float: right;">Tue Jan 15 16:03:09 GMT 2019</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
	<b>Diagnosics</b> (Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(2)						
(2)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=41.788 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.605 Line Spacing=		(1)							
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(11)	NGC3749	RA: 11 35 53.2000 (173.9716667d) Dec: -37 59 50.00 (-37.99722d) Equinox: J2000		V=12.0	Reference Frame: ICRS				
<i>Comments:</i> Category=GALAXY Description=[NUCLEUS]										
<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 (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(11) NGC3749		WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S25		Pattern 2, Exps 1-1 i n Visit 11 (2)	227.936926 Secs (683.811 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2	(11) NGC3749		WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 i n Visit 11 (1)	400 Secs (1583 Secs) [==>362.0 Secs (Pattern 1,1)] [==>407.0 Secs (Pattern 1,2)] [==>407.0 Secs (Pattern 2,1)] [==>407.0 Secs (Pattern 2,2)]	[1]



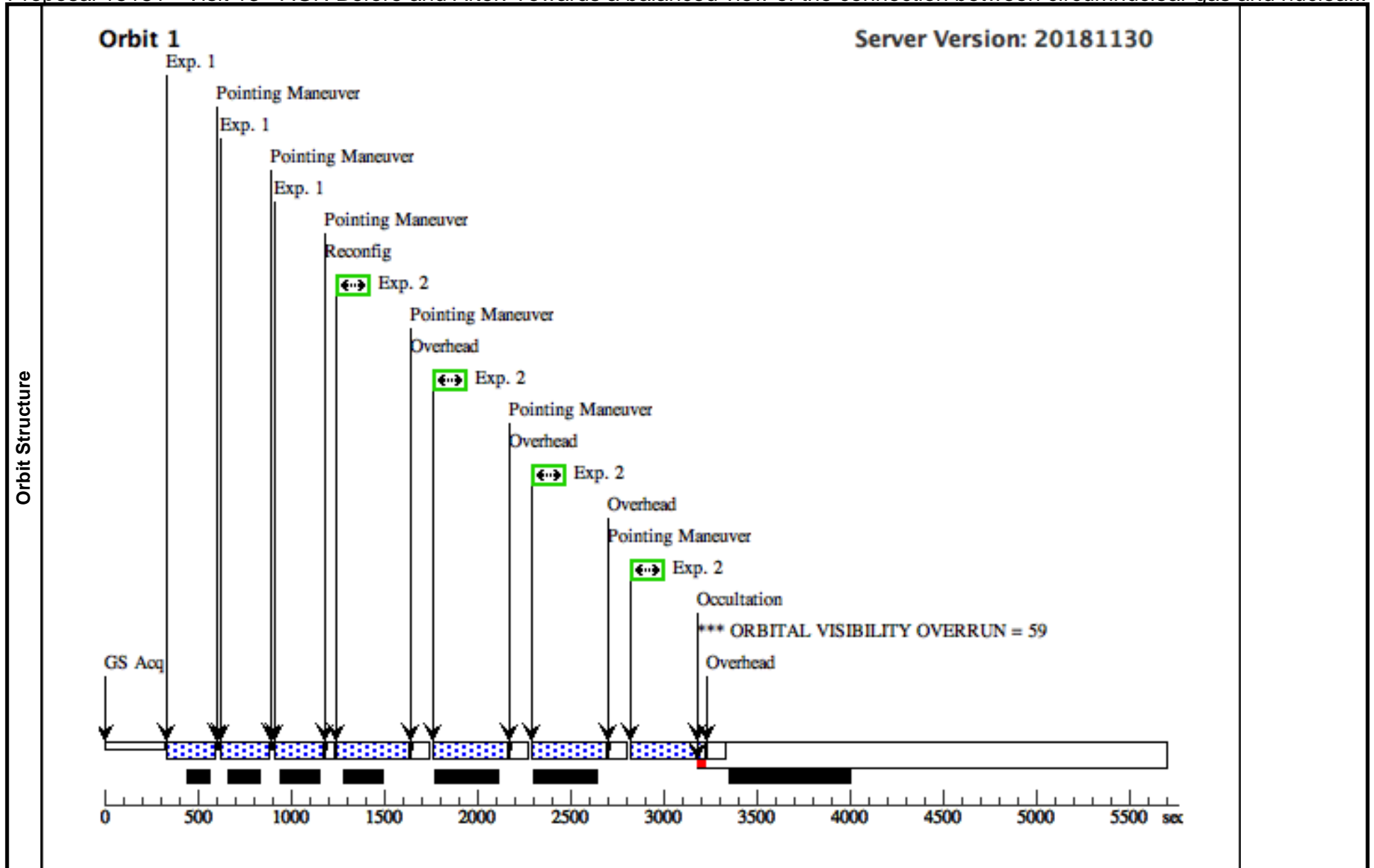
Proposal 15181 - Visit 12 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

Visit	<b>Proposal 15181, Visit 12, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					Tue Jan 15 16:03:10 GMT 2019				
Diagnostics	(Visit 12) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=	(2)						
(2)	Pattern Type=WFC3-IR-DITHER- LINE-3PT Coordinate Frame=POS-TARG Pattern Orientation=41.788 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.605 Line Spacing=		(1)							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	NGC3717	RA: 11 31 32.0000 (172.8833333d) Dec: -30 18 28.00 (-30.30778d) Equinox: J2000		V=11.2	Reference Frame: ICRS				
<i>Comments:</i> Category=GALAXY Description=[NUCLEUS]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(12) NGC3717	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S25			Pattern 2, Exps 1-1 i n Visit 12 (2)	227.936926 Secs (683.811 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2	(12) NGC3717	WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 i n Visit 12 (1)	400 Secs (1563 Secs) [==>357.0 Secs (Pattern 1,1)] [==>402.0 Secs (Pattern 1,2)] [==>402.0 Secs (Pattern 2,1)] [==>402.0 Secs (Pattern 2,2)]	[1]	



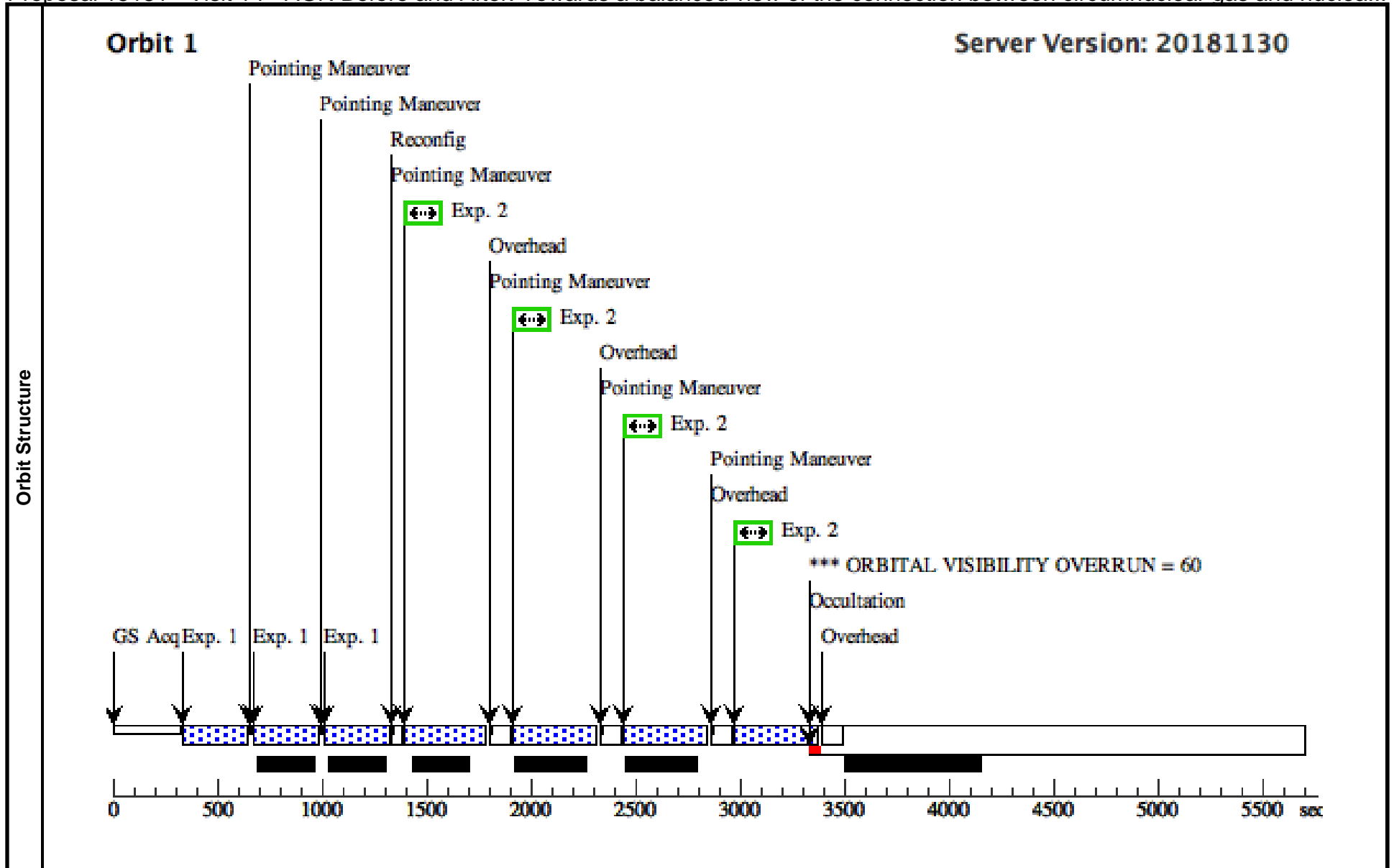
Proposal 15181 - Visit 13 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

Visit	<b>Proposal 15181, Visit 13, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					Tue Jan 15 16:03:10 GMT 2019				
Diagnostics	(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- Coordinate Frame=POS-TARG LINE Pattern Orientation=46.84 Purpose=DITHER Number Of Points=2 Angle Between Sides= Point Spacing=0.145 Center Pattern=false Line Spacing=	(2)						
(2)	Pattern Type=WFC3-IR-DITHER- Coordinate Frame=POS-TARG LINE-3PT Pattern Orientation=41.788 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.605 Line Spacing=		(1)							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(13)	MCG-05-23-016	RA: 09 47 40.2000 (146.9175000d) Dec: -30 56 56.00 (-30.94889d) Equinox: J2000		V=13.2	Reference Frame: ICRS				
<i>Comments:</i> Category=GALAXY Description=[NUCLEUS, SEYFERT]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(13) MCG-05-23-016	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S25			Pattern 2, Exps 1-1 in Visit 13 (2)	227.936926 Secs (683.811 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2	(13) MCG-05-23-016	WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 in Visit 13 (1)	400 Secs (1563 Secs) [==>357.0 Secs (Pattern 1,1)] [==>402.0 Secs (Pattern 1,2)] [==>402.0 Secs (Pattern 2,1)] [==>402.0 Secs (Pattern 2,2)]	[1]	



Proposal 15181 - Visit 14 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

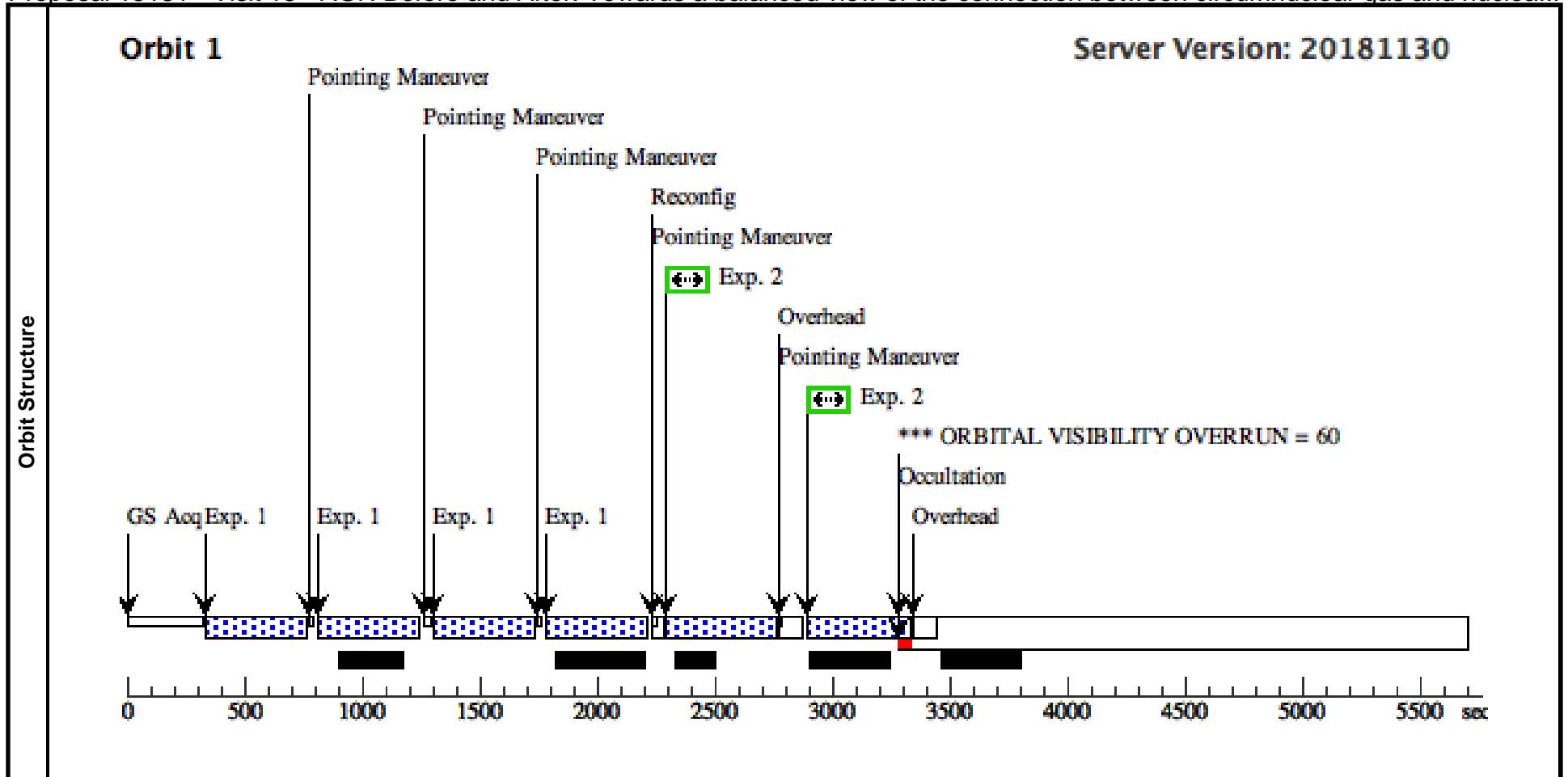
Visit	<b>Proposal 15181, Visit 14, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					Tue Jan 15 16:03:10 GMT 2019				
Diagnostics	(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	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=	Pattern Type=WFC3-UVIS-DITHER- Coordinate Frame=POS-TARG LINE Pattern Orientation=46.84 Purpose=DITHER Number Of Points=2 Angle Between Sides= Point Spacing=0.145 Center Pattern=false Line Spacing=	(2)						
(2)	Pattern Type=WFC3-IR-DITHER- Coordinate Frame=POS-TARG LINE-3PT Pattern Orientation=41.788 Purpose=DITHER Angle Between Sides= Number Of Points=3 Center Pattern=false Point Spacing=0.605 Line Spacing=		(1)							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	ESO208-G021	RA: 07 33 56.2000 (113.4841667d) Dec: -50 26 35.00 (-50.44306d) Equinox: J2000		V=11.2	Reference Frame: ICRS				
<i>Comments:</i> Category=GALAXY Description=[ELLIPTICAL, NUCLEUS]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(14) ESO208-G021	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=12; SAMP-SEQ=SPAR S25			Pattern 2, Exps 1-1 in Visit 14 (2)	277.937956 Secs (833.814 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2	(14) ESO208-G021	WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 1, Exps 2-2 in Visit 14 (1)	400 Secs (1567 Secs) [=>358.0 Secs (Pattern 1,1)] [=>403.0 Secs (Pattern 1,2)] [=>403.0 Secs (Pattern 2,1)] [=>403.0 Secs (Pattern 2,2)]	[1]	



Proposal 15181 - Visit 15 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

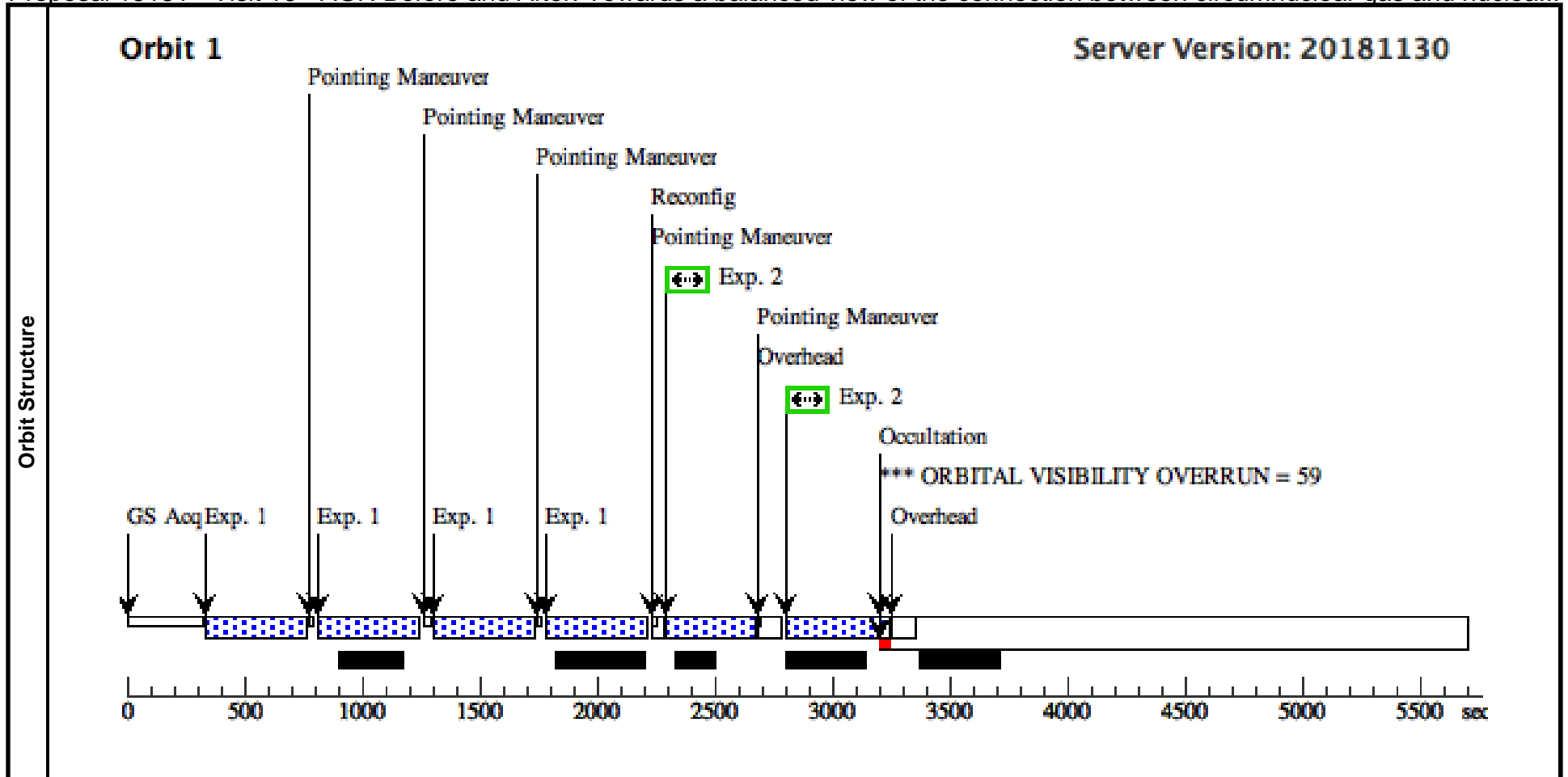
Tue Jan 15 16:03:10 GMT 2019

Visit	<b>Proposal 15181, Visit 15, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
Diagnostics	(Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
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=		(2)						
	(5)	Pattern Type=WFC3-IR-DITHER-BOX-UVIS Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=0.713 Number Of Points=4 Angle Between Sides=89.287 Point Spacing=23.02 Center Pattern=true Line Spacing=35.212		(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	NGC7213	RA: 22 09 16.2600 (332.3177500d) Dec: -47 09 59.95 (-47.16665d) Equinox: J2000  <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[NUCLEUS, SEYFERT]		V=12.08	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(15) NGC7213	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50			Pattern 5, Exps 1-1 i n Visit 15 (5)	402.935899 Secs (1611.744 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
	2	(15) NGC7213	WFC3/UVIS, ACCUM, UVIS-FIX	F606W			Pattern 3, Exps 2-2 i n Visit 15 (3)	400 Secs (876 Secs) [=>438.0 Secs (Pattern 1)] [=>438.0 Secs (Pattern 2)]	[1]	



Proposal 15181 - Visit 16 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

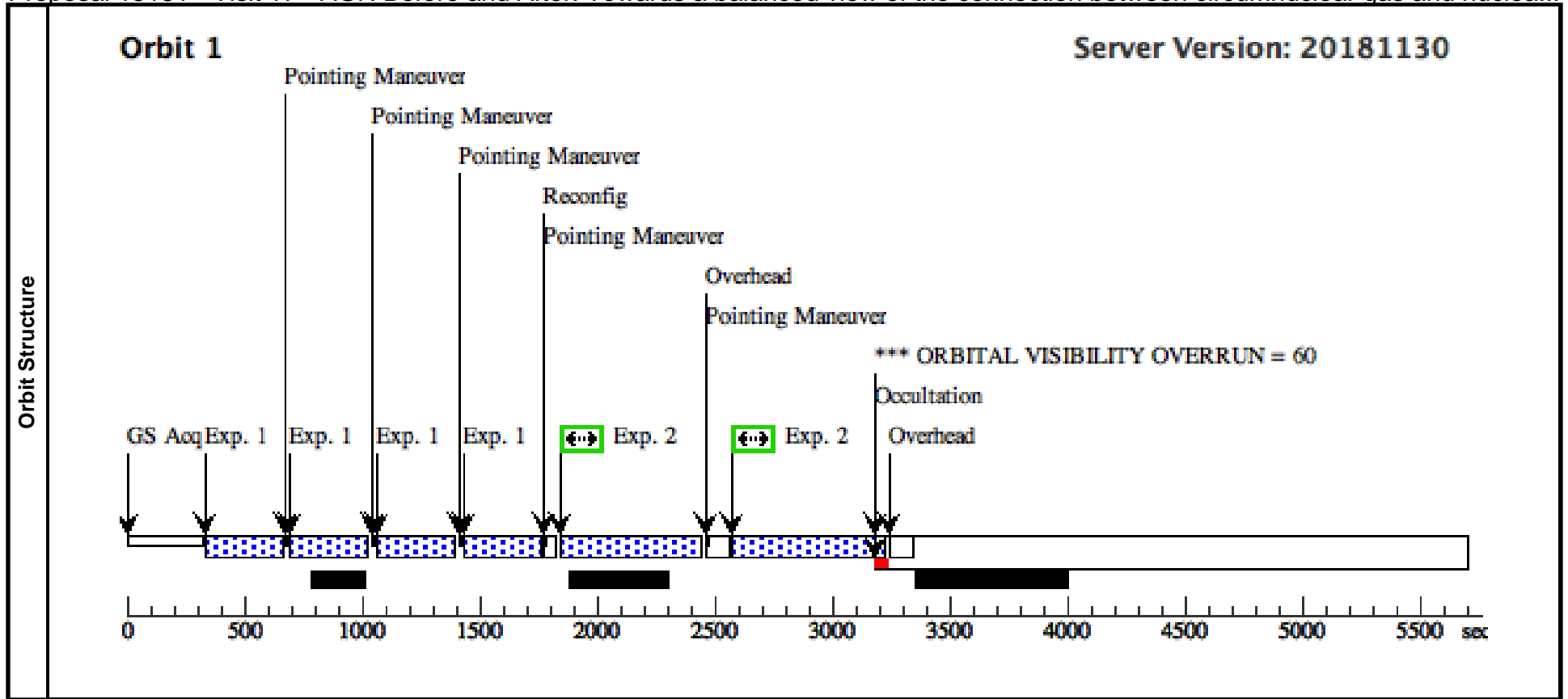
<b>Visit</b>	<b>Proposal 15181, Visit 16, completed</b> <span style="float: right;">Tue Jan 15 16:03:10 GMT 2019</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ORIENT 190D TO 320 D <i>Comments: An offset from the center of the main target (NGC 3783) is used to minimise overlap of the exposures with a bright star that lies SE of the galaxy. An Orientation restriction has been added to ensure that the UVIS chip gap does not overlap with the galaxy nucleus, which requires the deepest coverage.</i>									
	<b>Diagnostics</b> (Visit 16) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>						
	(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=		(2)						
(5)	Pattern Type=WFC3-IR-DITHER-BOX-UVIS    Coordinate Frame=POS-TARG Purpose=DITHER                                Pattern Orientation=0.713 Number Of Points=4                        Angle Between Sides=89.287 Point Spacing=23.02                        Center Pattern=true Line Spacing=35.212		(1)							
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(16)	NGC3783	RA: 11 39 1.7210 (174.7571708d) Dec: -37 44 18.60 (-37.73850d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[NUCLEUS, SEYFERT]		V=13.43	Reference Frame: ICRS				
	(19)	NGC3783-OFFSET	Offset from NGC3783 RA Offset: -1.3 Secs Dec Offset: 10.0 Arcsec <i>Comments: Category=GALAXY Description=[SEYFERT]</i>		V=13.43	Offset Position (NGC3783-OFFSET)				
<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 (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1		(19) NGC3783-OFFSET	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50		Pattern 5, Exps 1-1 in Visit 16 (5)	402.935899 Secs (1611.744 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
2		(19) NGC3783-OFFSET	WFC3/UVIS, ACCUM, UVIS-FIX	F606W				Pattern 3, Exps 2-2 in Visit 16 (3)	400 Secs (790 Secs) [=>346.0 Secs (Pattern 1)] [=>444.0 Secs (Pattern 2)]	[1]



Proposal 15181 - Visit 17 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

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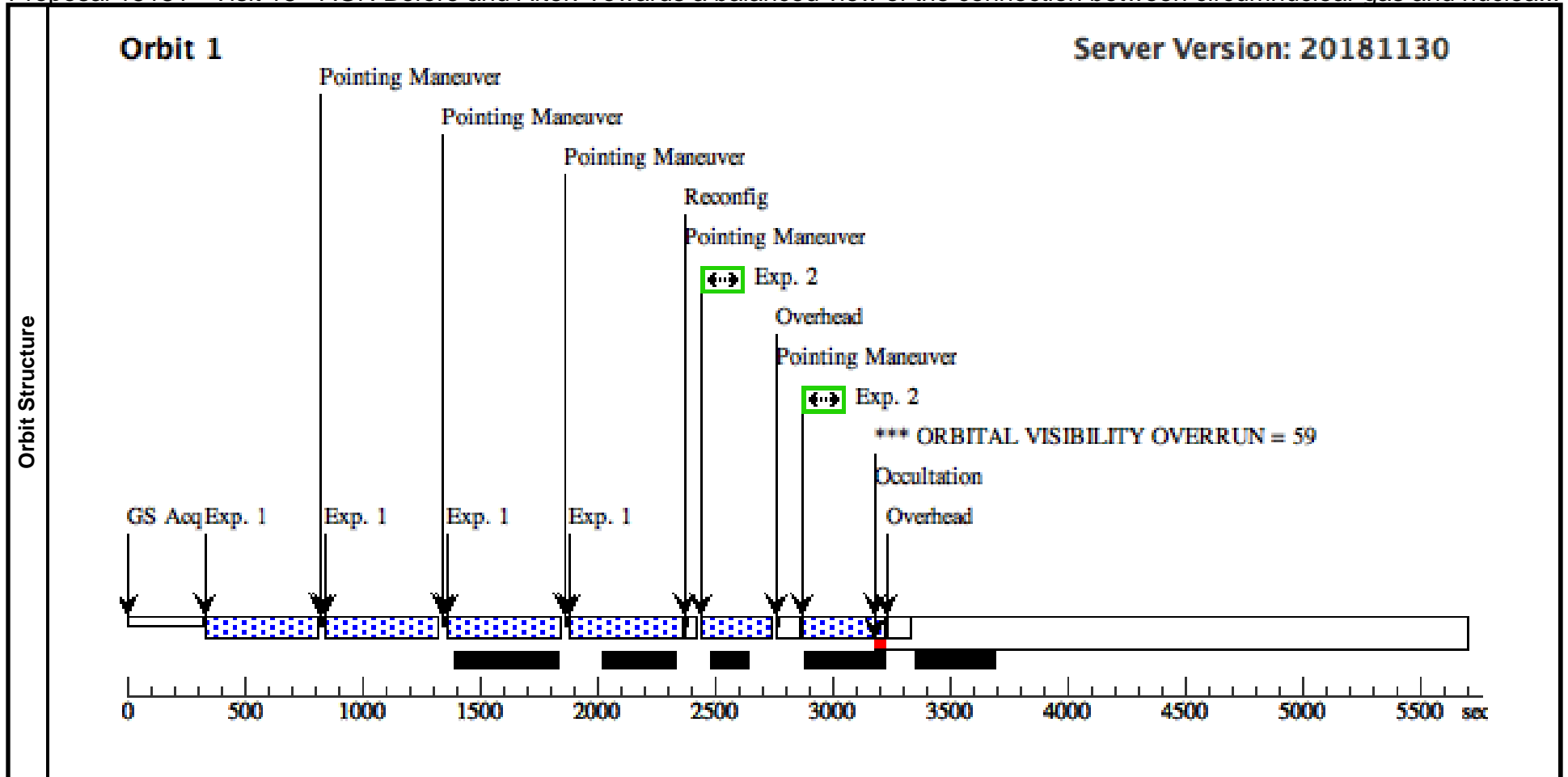
Visit	<b>Proposal 15181, Visit 17, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
Diagnostics	(Visit 17) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(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=		(2)						
	(4)	Pattern Type=WFC3-IR-DITHER-    Coordinate Frame=POS-TARG BLOB    Pattern Orientation=41.859 Purpose=DITHER    Angle Between Sides= Number Of Points=2    Center Pattern=true Point Spacing=5.183 Line Spacing=	Pattern Type=WFC3-IR-DITHER-    Coordinate Frame=POS-TARG LINE    Pattern Orientation=41.788 Purpose=DITHER    Angle Between Sides= Number Of Points=2    Center Pattern=false Point Spacing=0.636 Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(17)	NGC7172	RA: 22 02 1.8970 (330.5079042d) Dec: -31 52 11.60 (-31.86989d) Equinox: J2000		V=13.61	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[NUCLEUS, SEYFERT]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(17) NGC7172	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S50		Pattern 4, Exps 1-1 i n Visit 17 (4)	302.934997 Secs (1211.74 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]
	2		(17) NGC7172	WFC3/UVIS, ACCUM, UVIS-FIX	F606W			Pattern 3, Exps 2-2 i n Visit 17 (3)	400 Secs (1224 Secs) [=>573.0 Secs (Pattern 1)] [=>651.0 Secs (Pattern 2)]	[1]



Proposal 15181 - Visit 18 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

Tue Jan 15 16:03:10 GMT 2019

Visit	<b>Proposal 15181, Visit 18, failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
Diagnostics	(Visit 18) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
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=		(2)						
	(4)	Pattern Type=WFC3-IR-DITHER-BLOB Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=41.859 Number Of Points=2 Angle Between Sides= Point Spacing=5.183 Center Pattern=true Line Spacing=	Pattern Type=WFC3-IR-DITHER-LINE Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=41.788 Number Of Points=2 Angle Between Sides= Point Spacing=0.636 Center Pattern=false Line Spacing=	(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(18)	MCG-06-30-015	RA: 13 35 53.8000 (203.9741667d) Dec: -34 17 43.78 (-34.29549d) Equinox: J2000		V=13.61	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[NUCLEUS, SEYFERT]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(18) MCG-06-30-015	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S50		Pattern 4, Exps 1-1 in Visit 18 (4)	452.93635 Secs (1811.745 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]
	2		(18) MCG-06-30-015	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	FLASH=1		Pattern 3, Exps 2-2 in Visit 18 (3)	400 Secs (620 Secs) [==>272.0 Secs (Pattern 1)] [==>348.0 Secs (Pattern 2)]	[1]



Proposal 15181 - Visit 58 - AGN Before and After: Towards a balanced view of the connection between circumnuclear gas and nuclea...

Visit		<b>Proposal 15181, Visit 58, implementation</b> <span style="float: right;">Tue Jan 15 16:03:10 GMT 2019</span> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)								
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=			(2)					
(4)	Pattern Type=WFC3-IR-DITHER-BLOB    Coordinate Frame=POS-TARG Purpose=DITHER    Pattern Orientation=41.859 Number Of Points=2    Angle Between Sides= Point Spacing=5.183    Center Pattern=true Line Spacing=	Pattern Type=WFC3-IR-DITHER-LINE    Coordinate Frame=POS-TARG Purpose=DITHER    Pattern Orientation=41.788 Number Of Points=2    Angle Between Sides= Point Spacing=0.636    Center Pattern=false Line Spacing=		(1)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(18)	MCG-06-30-015	RA: 13 35 53.8000 (203.9741667d) Dec: -34 17 43.78 (-34.29549d) Equinox: J2000		V=13.61	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[NUCLEUS, SEYFERT]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(18) MCG-06-30-015	WFC3/IR, MULTIACCUM, IR-UVIS-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50		Pattern 4, Exps 1-1 in Visit 58 (4)	402.935899 Secs (1611.744 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]
2		(18) MCG-06-30-015	WFC3/UVIS, ACCUM, UVIS-FIX	F606W			Pattern 3, Exps 2-2 in Visit 58 (3)	350 Secs (760 Secs) [==>380.0 Secs (Pattern 1)] [==>380.0 Secs (Pattern 2)]	[1]	

