



14644 - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects in Dragonfly fields

Cycle: 24, 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) NGC1052-DF1	ACS/WFC	2	09-Nov-2016 11:32:23.0	yes
02	(2) NGC1052-DF2	ACS/WFC	2	09-Nov-2016 11:32:24.0	yes
03	(3) NGC1052-DF4+DF5	ACS/WFC	2	09-Nov-2016 11:32:25.0	yes
04	(4) NGC1052-DF7	ACS/WFC	2	09-Nov-2016 11:32:27.0	yes
05	(5) NGC1052-DF8	ACS/WFC	2	09-Nov-2016 11:32:28.0	yes
06	(6) NGC1084-DF1	ACS/WFC	2	09-Nov-2016 11:32:29.0	yes
07	(7) NGC3384-DF1	ACS/WFC	1	09-Nov-2016 11:32:30.0	yes
08	(8) NGC3384-DF2	ACS/WFC	1	09-Nov-2016 11:32:31.0	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>
09	(9) NGC3384-DF3	ACS/WFC	1	09-Nov-2016 11:32:31.0	yes
10	(10) NGC3384-DF4	ACS/WFC	1	09-Nov-2016 11:32:32.0	yes
11	(11) NGC3384-DF5	ACS/WFC	1	09-Nov-2016 11:32:33.0	yes
12	(12) NGC3384-DF6	ACS/WFC	1	09-Nov-2016 11:32:33.0	yes
13	(13) NGC3384-DF7	ACS/WFC	1	09-Nov-2016 11:32:34.0	yes
14	(14) NGC3384-DF8	ACS/WFC	1	09-Nov-2016 11:32:35.0	yes
15	(15) NGC3384-DF9	ACS/WFC	1	09-Nov-2016 11:32:35.0	yes
16	(16) NGC3384-DF10	ACS/WFC	1	09-Nov-2016 11:32:36.0	yes
17	(17) NGC3384-DF11	ACS/WFC	1	09-Nov-2016 11:32:37.0	yes
18	(18) NGC4258-DF1	ACS/WFC	1	09-Nov-2016 11:32:37.0	yes
19	(19) NGC4258-DF2	ACS/WFC	1	09-Nov-2016 11:32:38.0	yes
20	(20) NGC4258-DF3	ACS/WFC	1	09-Nov-2016 11:32:39.0	yes
21	(21) NGC4258-DF5	ACS/WFC	1	09-Nov-2016 11:32:39.0	yes
22	(22) NGC4258-DF6	ACS/WFC	1	09-Nov-2016 11:32:40.0	yes

28 Total Orbits Used

ABSTRACT

We are obtaining deep, wide field images of nearby galaxies with the Dragonfly Telephoto Array. This telescope is optimized for low surface brightness imaging, and we are finding many low surface brightness objects in the Dragonfly fields. In Cycle 22 we obtained ACS imaging for 7 galaxies that we had discovered in a Dragonfly image of the galaxy M101. Unexpectedly, the ACS data show that only 3 of the galaxies are members of the M101 group, and the other 4 are very large "Ultra Diffuse Galaxies" (UDGs) at much greater distance. Building on our Cycle 22 program, here we request ACS imaging for 23 newly discovered low surface brightness objects in four Dragonfly fields centered on the galaxies NGC 1052, NGC 1084, NGC 3384, and NGC 4258. The immediate goals are to construct the satellite luminosity functions in these four fields and to constrain the number density of UDGs that are not in rich clusters. More generally, this complete sample of extremely low surface brightness objects provides the first systematic insight into galaxies whose brightness peaks at $>25 \text{ mag/arcsec}^2$.

OBSERVING DESCRIPTION

For each target, dithered exposures in F606W and F814W are obtained with the WFC camera. Six targets are observed for 2 orbits. For these, a line dither pattern is used to dither over the chip gap, in addition to a subpattern, generating 4 exposures in F606W in the 1st orbit and 4 exposures in F814W in the 2nd orbit.

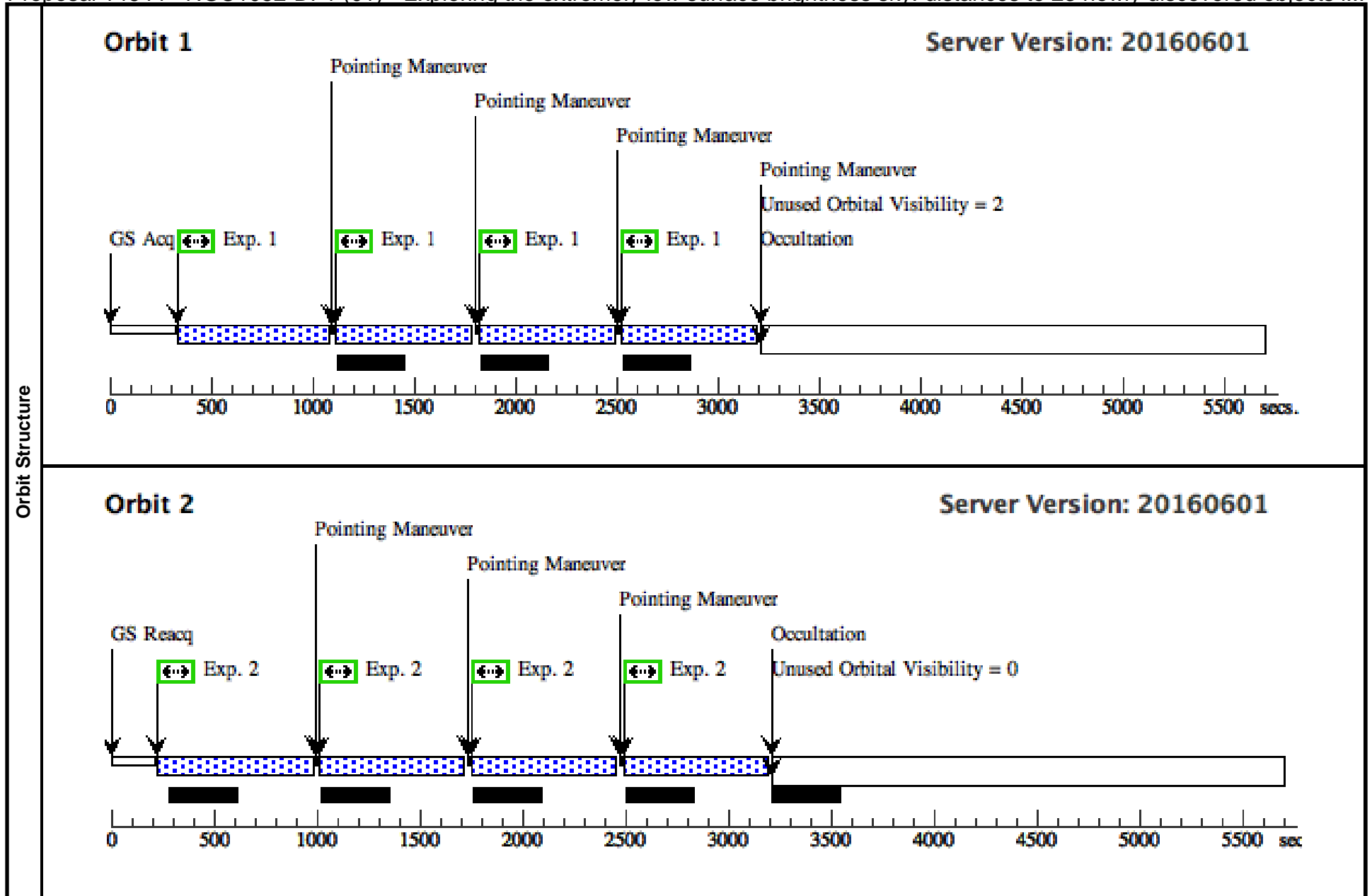
The remaining 16 targets are observed in a single orbit. For these, the line dither pattern is used without a subpattern, generating 2 exposures in F606W and 2 exposures in F814W in the orbit.

The apertures and POSTARGs vary from object to object, as they depend on the size: small objects are observed on or near WFC1, large objects that fill the entire field of view are observed near WFC. One target is at WFCENTER, as 2 objects can be observed in a single pointing (NGC1052-DF4+DF5). One target is observed on WFC2, to avoid very bright stars. This is also the only target with an ORIENT constraint (again to avoid the bright stars).

Proposal 14644 - NGC1052-DF1 (01) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

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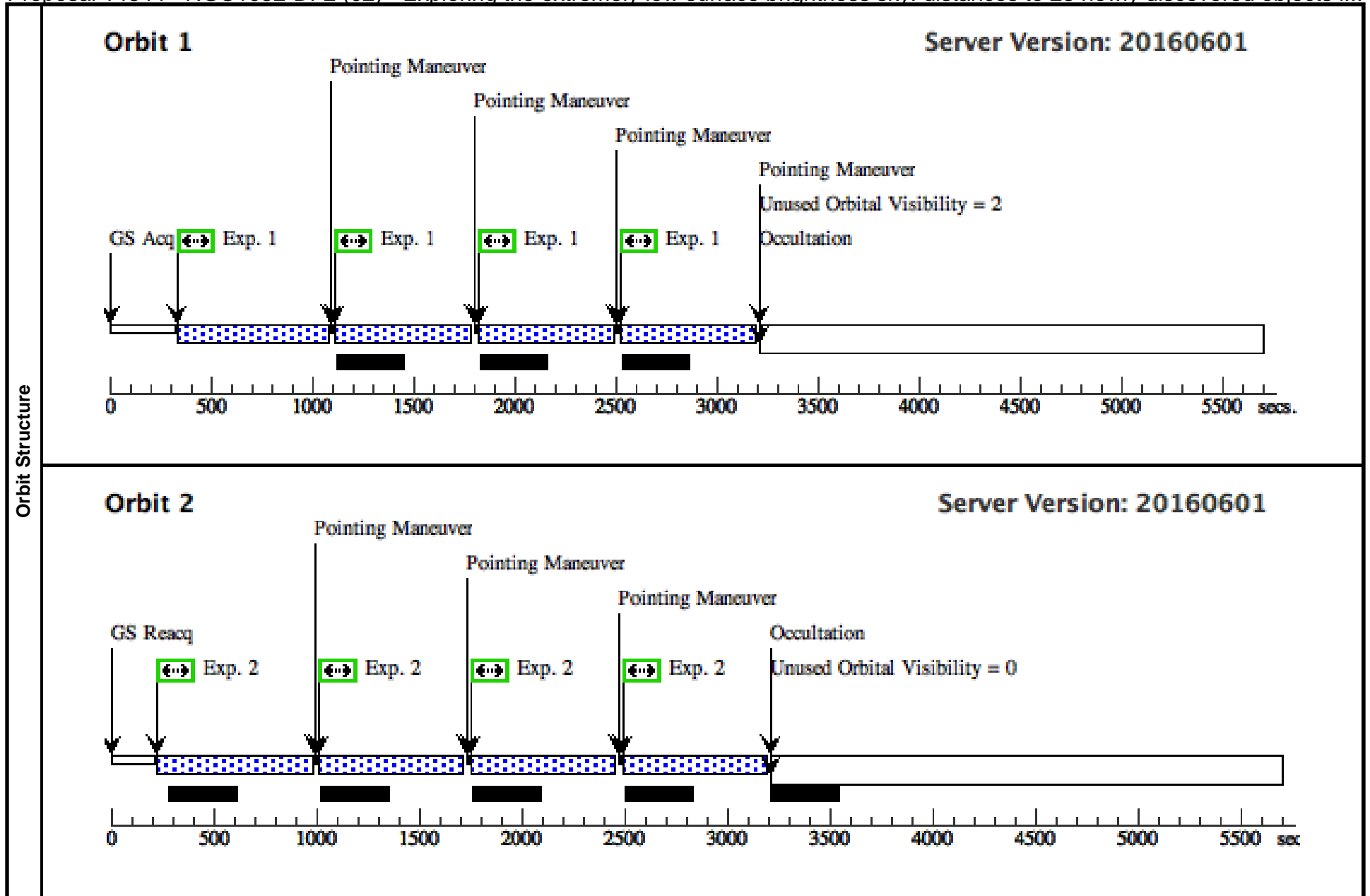
Visit	Proposal 14644, NGC1052-DF1 (01), implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC1052-DF1	RA: 02 40 4.4800 (40.0186667d) Dec: -08 26 42.85 (-8.44524d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) NGC1052-DF1	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,-15	Pattern 1, Exps 1-1 in NGC1052-DF1 (01) (1)	500 Secs (2180 Secs) [==>545.0 Secs (Pattern 1,1)] [==>545.0 Secs (Pattern 1,2)] [==>545.0 Secs (Pattern 2,1)] [==>545.0 Secs (Pattern 2,2)]	[1]	
2	(1) NGC1052-DF1	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,-15	Pattern 1, Exps 2-2 in NGC1052-DF1 (01) (1)	500 Secs (2320 Secs) [==>580.0 Secs (Pattern 1,1)] [==>580.0 Secs (Pattern 1,2)] [==>580.0 Secs (Pattern 2,1)] [==>580.0 Secs (Pattern 2,2)]	[2]		



Proposal 14644 - NGC1052-DF2 (02) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

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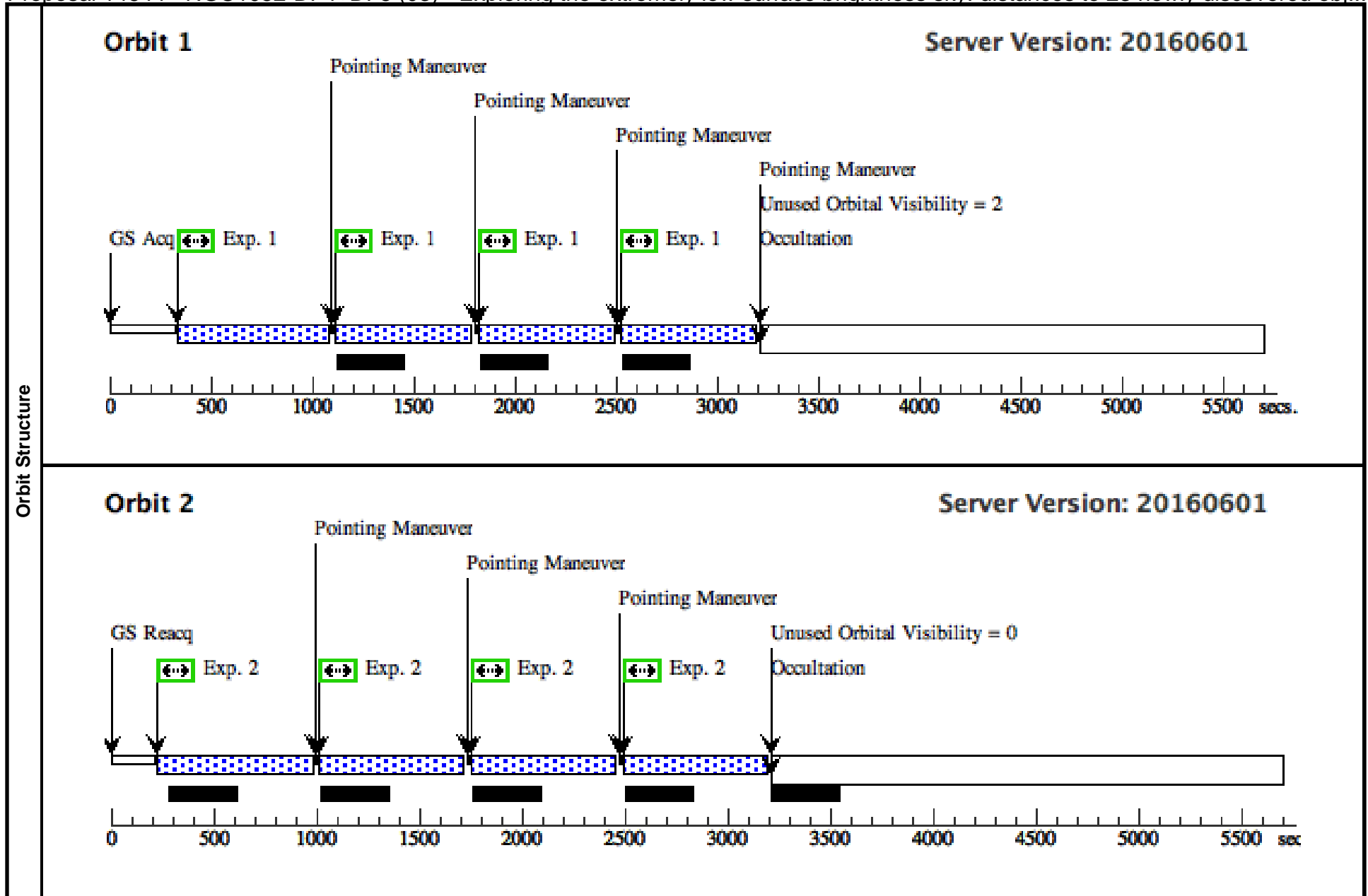
Visit	Proposal 14644, NGC1052-DF2 (02), implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC1052-DF2	RA: 02 41 46.7200 (40.4446667d) Dec: -08 24 10.80 (-8.40300d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) NGC1052-DF2	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0,20	Pattern 1, Exps 1-1 in NGC1052-DF2 (02) (1)	500 Secs (2180 Secs) [=>545.0 Secs (Pattern 1,1)] [=>545.0 Secs (Pattern 1,2)] [=>545.0 Secs (Pattern 2,1)] [=>545.0 Secs (Pattern 2,2)]	[1]
2		(2) NGC1052-DF2	ACS/WFC, ACCUM, WFC	F814W		POS TARG 0,20	Pattern 1, Exps 2-2 in NGC1052-DF2 (02) (1)	500 Secs (2320 Secs) [=>580.0 Secs (Pattern 1,1)] [=>580.0 Secs (Pattern 1,2)] [=>580.0 Secs (Pattern 2,1)] [=>580.0 Secs (Pattern 2,2)]	[2]	



Proposal 14644 - NGC1052-DF4+DF5 (03) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered obj...

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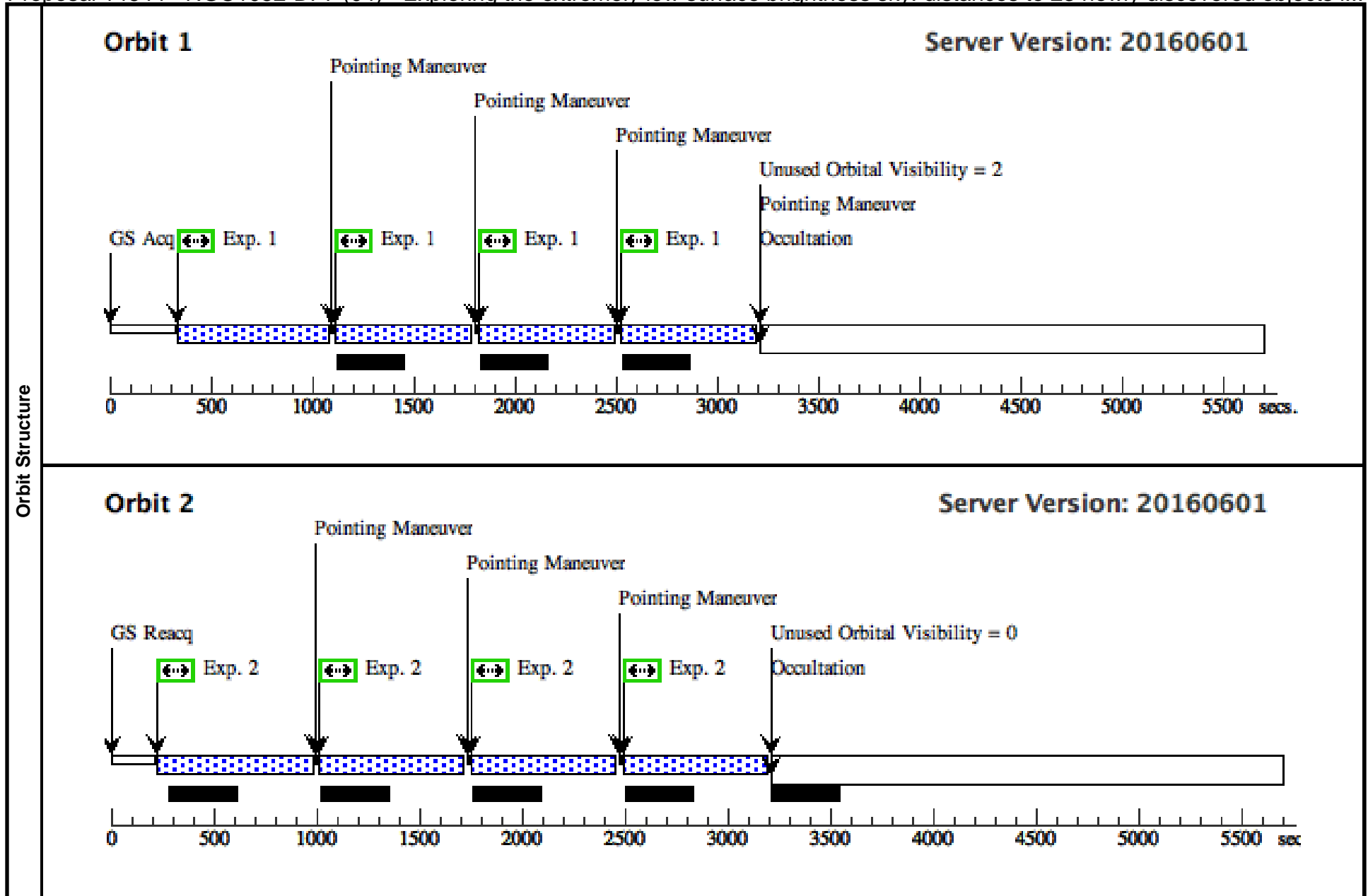
Visit	Proposal 14644, NGC1052-DF4+DF5 (03), implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	Pattern Type=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)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC1052-DF4+DF5	RA: 02 39 14.0000 (39.8083333d) Dec: -08 07 39.50 (-8.12764d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) NGC1052-DF4+DF5	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0,0	Pattern 1, Exps 1-1 in NGC1052-DF4+DF5 (03) (1)	500 Secs (2180 Secs) [=>545.0 Secs (Pattern 1,1)] [=>545.0 Secs (Pattern 1,2)] [=>545.0 Secs (Pattern 2,1)] [=>545.0 Secs (Pattern 2,2)]	[1]
2		(3) NGC1052-DF4+DF5	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0,0	Pattern 1, Exps 2-2 in NGC1052-DF4+DF5 (03) (1)	500 Secs (2320 Secs) [=>580.0 Secs (Pattern 1,1)] [=>580.0 Secs (Pattern 1,2)] [=>580.0 Secs (Pattern 2,1)] [=>580.0 Secs (Pattern 2,2)]	[2]	



Proposal 14644 - NGC1052-DF7 (04) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

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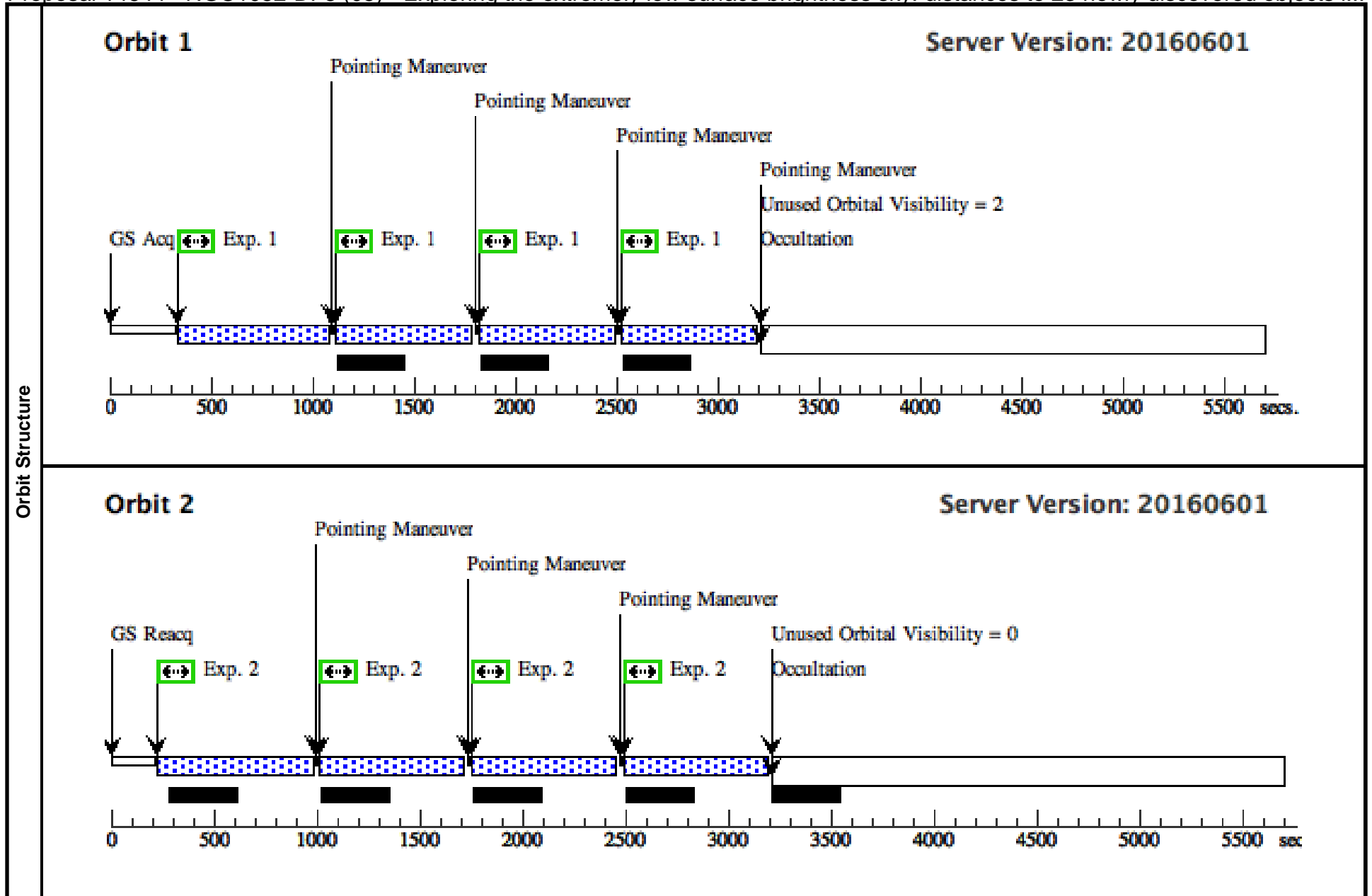
Visit	Proposal 14644, NGC1052-DF7 (04), implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	(1), (2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	NGC1052-DF7	RA: 02 38 29.8400 (39.6243333d) Dec: -07 55 28.59 (-7.92461d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) NGC1052-DF7	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,-15	Pattern 1, Exps 1-1 in NGC1052-DF7 (04) (1)	500 Secs (2180 Secs) [==>545.0 Secs (Pattern 1,1)] [==>545.0 Secs (Pattern 1,2)] [==>545.0 Secs (Pattern 2,1)] [==>545.0 Secs (Pattern 2,2)]	[1]
2		(4) NGC1052-DF7	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,-15	Pattern 1, Exps 2-2 in NGC1052-DF7 (04) (1)	500 Secs (2320 Secs) [==>580.0 Secs (Pattern 1,1)] [==>580.0 Secs (Pattern 1,2)] [==>580.0 Secs (Pattern 2,1)] [==>580.0 Secs (Pattern 2,2)]	[2]	



Proposal 14644 - NGC1052-DF8 (05) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

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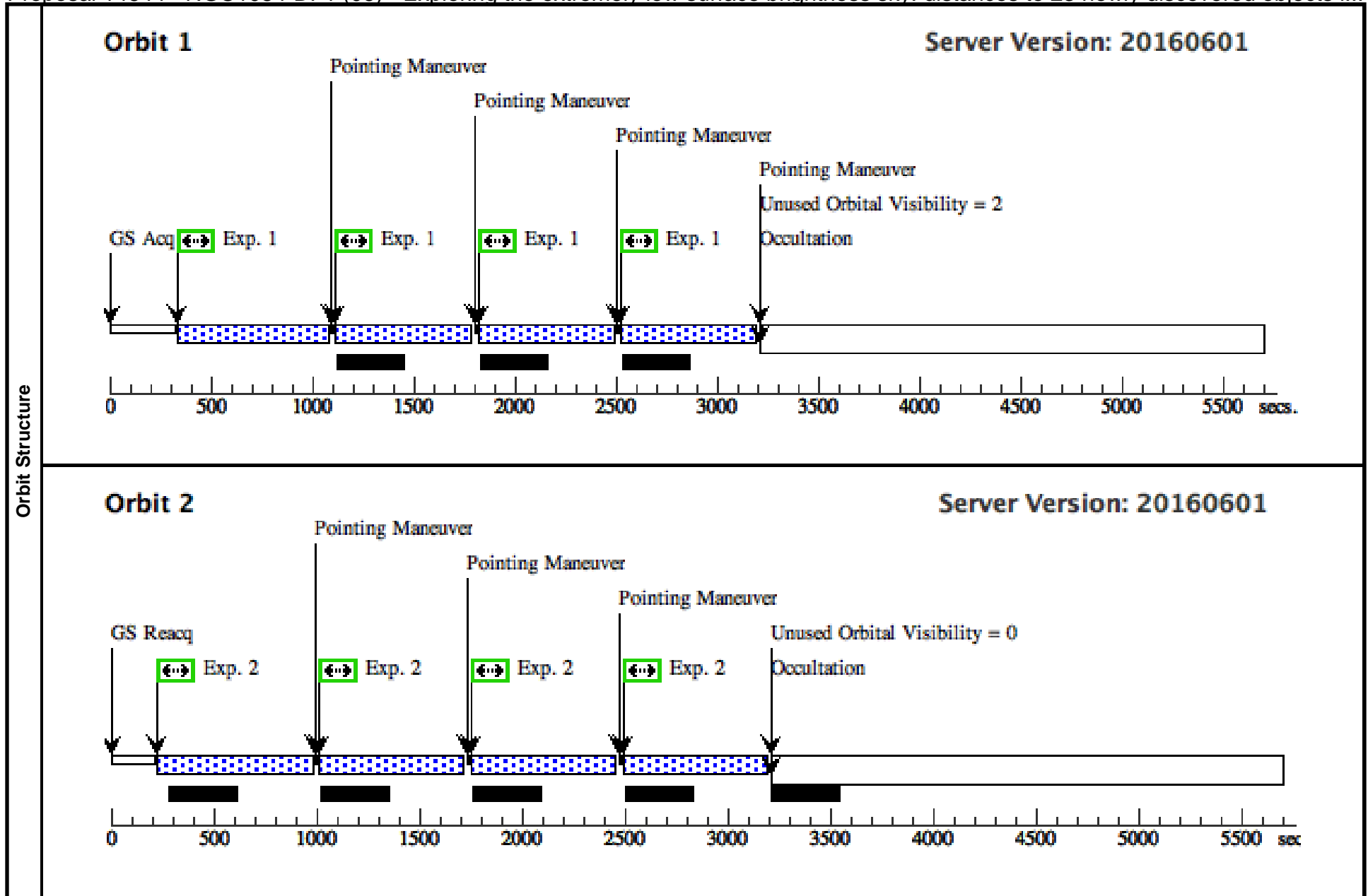
Visit	Proposal 14644, NGC1052-DF8 (05), implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	(1), (2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	NGC1052-DF8	RA: 02 40 45.5500 (40.1897917d) Dec: -07 38 44.92 (-7.64581d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(5) NGC1052-DF8	ACS/WFC, ACCUM, WFC1	F606W			POS TARG 0,-15	Pattern 1, Exps 1-1 in NGC1052-DF8 (05) (1)	500 Secs (2180 Secs) [==>545.0 Secs (Pattern 1,1)] [==>545.0 Secs (Pattern 1,2)] [==>545.0 Secs (Pattern 2,1)] [==>545.0 Secs (Pattern 2,2)]	[1]
2	(5) NGC1052-DF8	ACS/WFC, ACCUM, WFC1	F814W			POS TARG 0,-15	Pattern 1, Exps 2-2 in NGC1052-DF8 (05) (1)	500 Secs (2320 Secs) [==>580.0 Secs (Pattern 1,1)] [==>580.0 Secs (Pattern 1,2)] [==>580.0 Secs (Pattern 2,1)] [==>580.0 Secs (Pattern 2,2)]	[2]	



Proposal 14644 - NGC1084-DF1 (06) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

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Visit	Proposal 14644, NGC1084-DF1 (06), implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	Pattern Type=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)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	NGC1084-DF1	RA: 02 42 38.0300 (40.6584583d) Dec: -07 20 19.06 (-7.33863d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(6) NGC1084-DF1	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,-15	Pattern 1, Exps 1-1 in NGC1084-DF1 (06) (1)	500 Secs (2180 Secs) [==>545.0 Secs (Pattern 1,1)] [==>545.0 Secs (Pattern 1,2)] [==>545.0 Secs (Pattern 2,1)] [==>545.0 Secs (Pattern 2,2)]	[1]
2		(6) NGC1084-DF1	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,-15	Pattern 1, Exps 2-2 in NGC1084-DF1 (06) (1)	500 Secs (2320 Secs) [==>580.0 Secs (Pattern 1,1)] [==>580.0 Secs (Pattern 1,2)] [==>580.0 Secs (Pattern 2,1)] [==>580.0 Secs (Pattern 2,2)]	[2]	



Proposal 14644 - NGC3384-DF1 (07) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

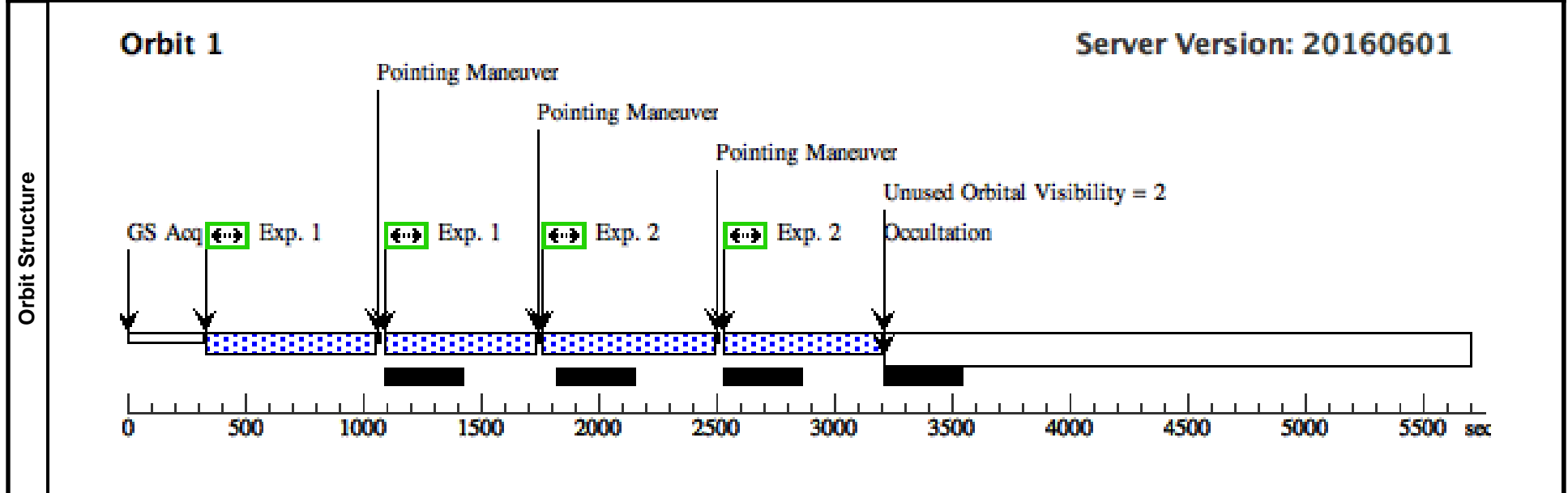
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Visit	Proposal 14644, NGC3384-DF1 (07), implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	NGC3384-DF1	RA: 10 48 13.0400 (162.0543333d) Dec: +11 58 7.32 (11.96870d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) NGC3384-DF1	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,0	Pattern 2, Exps 1-1 in NGC3384-DF1 (07) (2)	500 Secs (1026 Secs) [=>513.0 Secs (Pattern 1)] [=>513.0 Secs (Pattern 2)]	[1]
	2		(7) NGC3384-DF1	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,0	Pattern 2, Exps 2-2 in NGC3384-DF1 (07) (2)	500 Secs (1096 Secs) [=>548.0 Secs (Pattern 1)] [=>548.0 Secs (Pattern 2)]	[1]



Proposal 14644 - NGC3384-DF2 (08) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

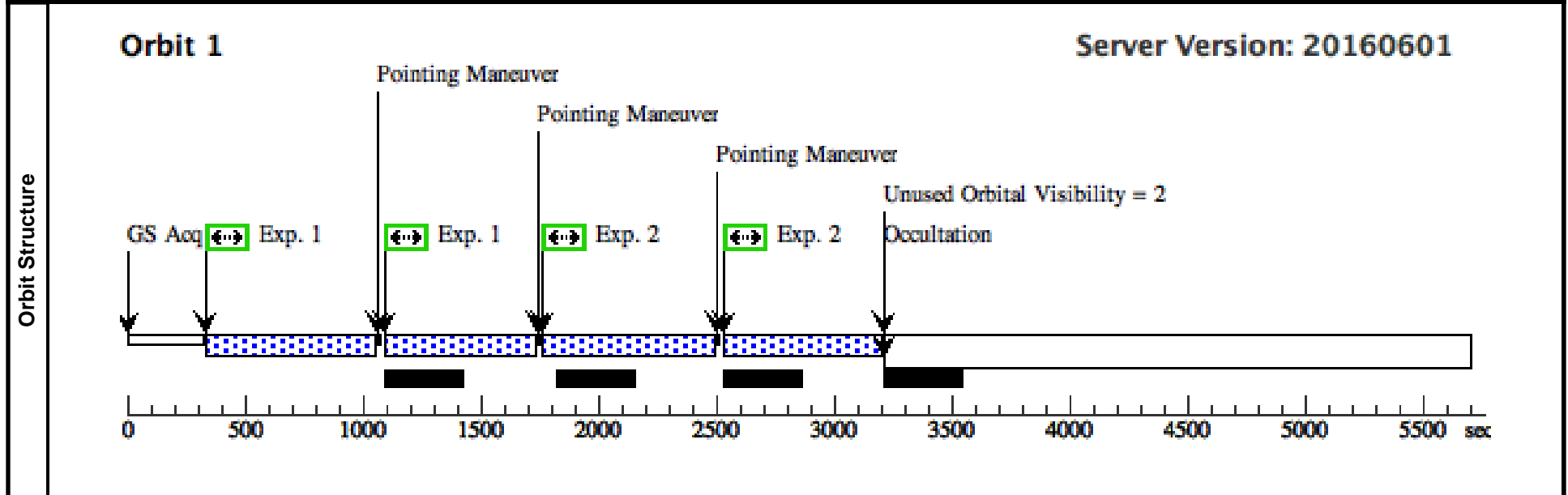
Wed Nov 09 16:32:41 GMT 2016

Visit	Proposal 14644, NGC3384-DF2 (08), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	NGC3384-DF2	RA: 10 47 40.4900 (161.9187083d) Dec: +12 03 1.17 (12.05033d) Equinox: J2000			V=25

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(8) NGC3384-DF2	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,0	Pattern 2, Exps 1-1 in NGC3384-DF2 (08) (2)	500 Secs (1026 Secs) [=>513.0 Secs (Pattern 1)] [=>513.0 Secs (Pattern 2)]	[1]
	2		(8) NGC3384-DF2	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,0	Pattern 2, Exps 2-2 in NGC3384-DF2 (08) (2)	500 Secs (1096 Secs) [=>548.0 Secs (Pattern 1)] [=>548.0 Secs (Pattern 2)]	[1]



Proposal 14644 - NGC3384-DF3 (09) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

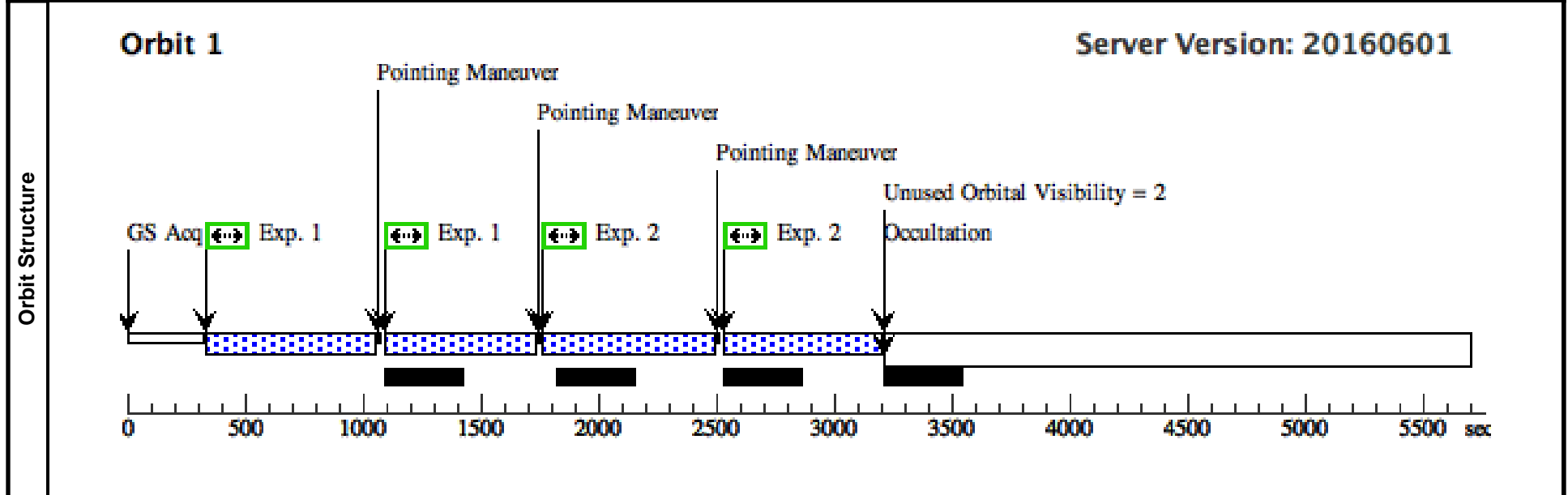
Wed Nov 09 16:32:41 GMT 2016

Visit	Proposal 14644, NGC3384-DF3 (09), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	NGC3384-DF3	RA: 10 42 34.5900 (160.6441250d) Dec: +12 09 2.06 (12.15057d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) NGC3384-DF3	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,-10	Pattern 2, Exps 1-1 in NGC3384-DF3 (09) (2)	500 Secs (1026 Secs) [=>513.0 Secs (Pattern 1)] [=>513.0 Secs (Pattern 2)]	[1]
	2		(9) NGC3384-DF3	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,-10	Pattern 2, Exps 2-2 in NGC3384-DF3 (09) (2)	500 Secs (1096 Secs) [=>548.0 Secs (Pattern 1)] [=>548.0 Secs (Pattern 2)]	[1]



Proposal 14644 - NGC3384-DF4 (10) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

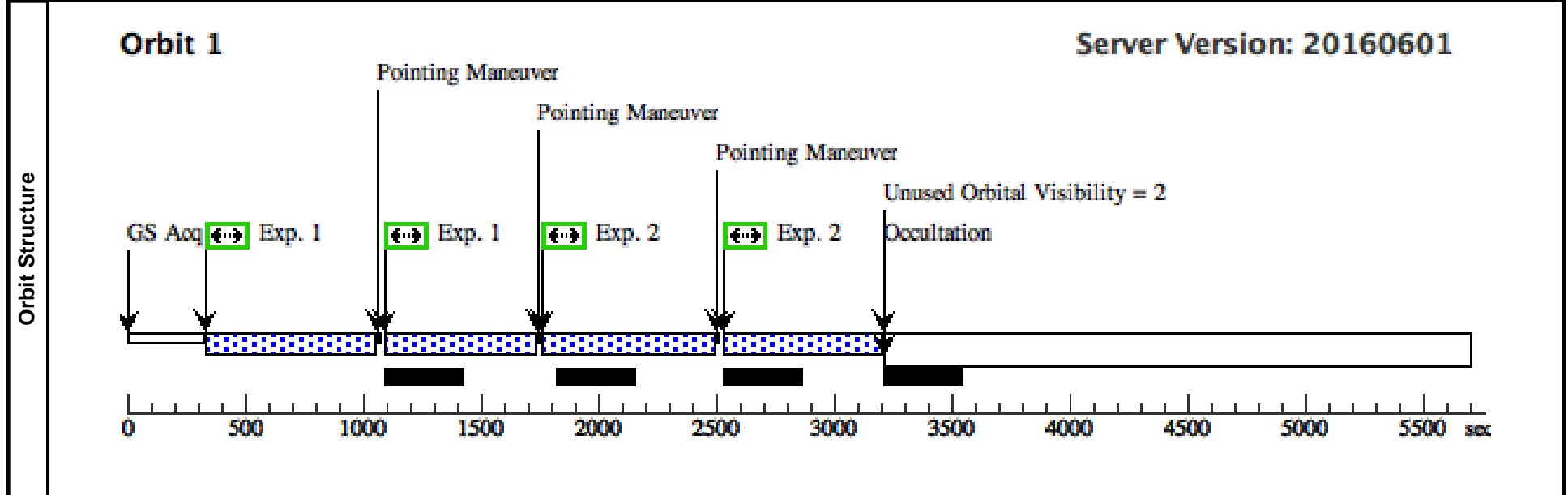
Wed Nov 09 16:32:41 GMT 2016

Visit	Proposal 14644, NGC3384-DF4 (10), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	NGC3384-DF4	RA: 10 50 27.3800 (162.6140833d) Dec: +12 21 40.14 (12.36115d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(10) NGC3384-DF4	ACS/WFC, ACCUM, WFC	F606W		POS TARG 0,20	Pattern 2, Exps 1-1 in NGC3384-DF4 (10) (2)	500 Secs (1026 Secs) [=>513.0 Secs (Pattern 1)] [=>513.0 Secs (Pattern 2)]	[1]
	2		(10) NGC3384-DF4	ACS/WFC, ACCUM, WFC	F814W		POS TARG 0,20	Pattern 2, Exps 2-2 in NGC3384-DF4 (10) (2)	500 Secs (1096 Secs) [=>548.0 Secs (Pattern 1)] [=>548.0 Secs (Pattern 2)]	[1]



Proposal 14644 - NGC3384-DF5 (11) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

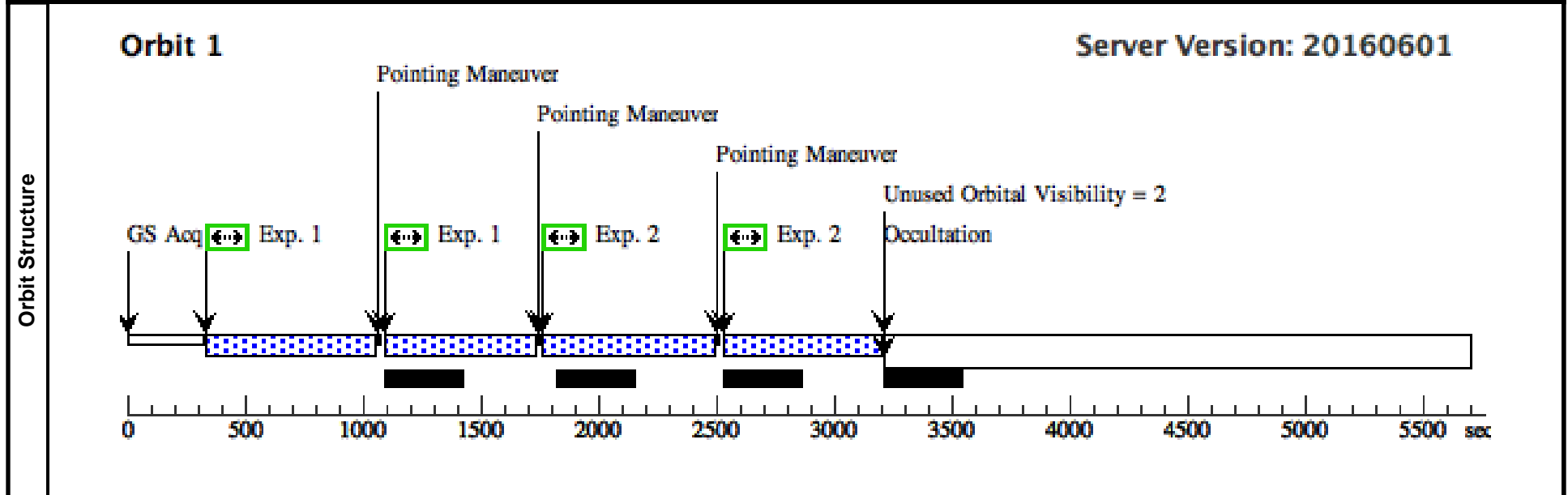
Wed Nov 09 16:32:41 GMT 2016

Visit	Proposal 14644, NGC3384-DF5 (11), implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	(1), (2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	NGC3384-DF5	RA: 10 49 25.9900 (162.3582917d) Dec: +12 33 9.36 (12.55260d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(11) NGC3384-DF5	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,0	Pattern 2, Exps 1-1 in NGC3384-DF5 (11) (2)	500 Secs (1026 Secs) [=>513.0 Secs (Pattern 1)] [=>513.0 Secs (Pattern 2)]	[1]
	2		(11) NGC3384-DF5	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,0	Pattern 2, Exps 2-2 in NGC3384-DF5 (11) (2)	500 Secs (1096 Secs) [=>548.0 Secs (Pattern 1)] [=>548.0 Secs (Pattern 2)]	[1]



Proposal 14644 - NGC3384-DF6 (12) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

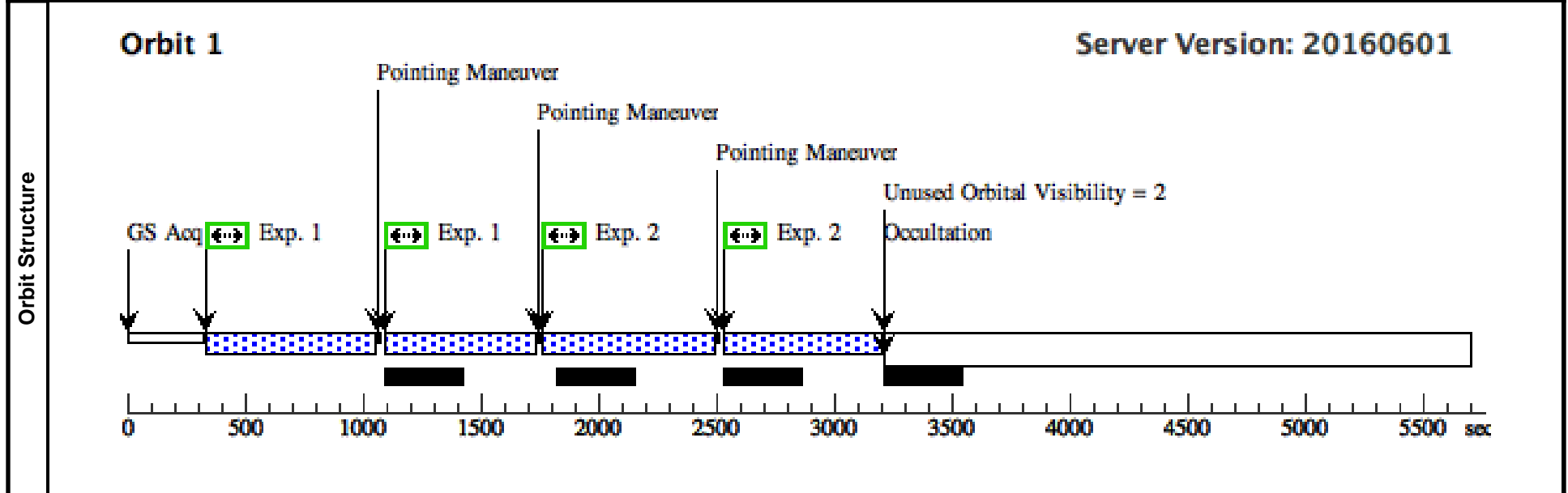
Wed Nov 09 16:32:41 GMT 2016

Visit	Proposal 14644, NGC3384-DF6 (12), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	NGC3384-DF6	RA: 10 46 52.8100 (161.7200417d) Dec: +12 44 28.25 (12.74118d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(12) NGC3384-DF6	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,-10	Pattern 2, Exps 1-1 in NGC3384-DF6 (12) (2)	500 Secs (1026 Secs) [=>513.0 Secs (Pattern 1)] [=>513.0 Secs (Pattern 2)]	[1]
	2		(12) NGC3384-DF6	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,-10	Pattern 2, Exps 2-2 in NGC3384-DF6 (12) (2)	500 Secs (1096 Secs) [=>548.0 Secs (Pattern 1)] [=>548.0 Secs (Pattern 2)]	[1]



Proposal 14644 - NGC3384-DF7 (13) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

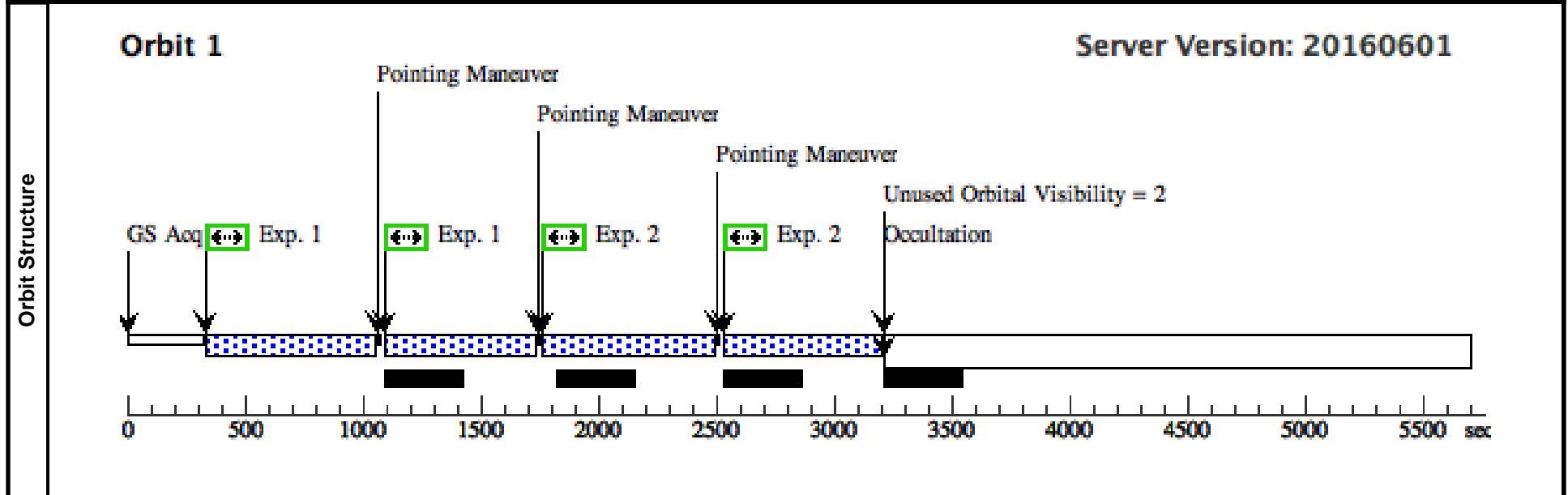
Wed Nov 09 16:32:42 GMT 2016

Visit	Proposal 14644, NGC3384-DF7 (13), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(13)	NGC3384-DF7	RA: 10 47 13.5300 (161.8063750d) Dec: +12 48 6.94 (12.80193d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(13) NGC3384-DF7	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,0	Pattern 2, Exps 1-1 in NGC3384-DF7 (13) (2)	500 Secs (1026 Secs) [=>513.0 Secs (Pattern 1)] [=>513.0 Secs (Pattern 2)]	[1]
	2		(13) NGC3384-DF7	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,0	Pattern 2, Exps 2-2 in NGC3384-DF7 (13) (2)	500 Secs (1096 Secs) [=>548.0 Secs (Pattern 1)] [=>548.0 Secs (Pattern 2)]	[1]

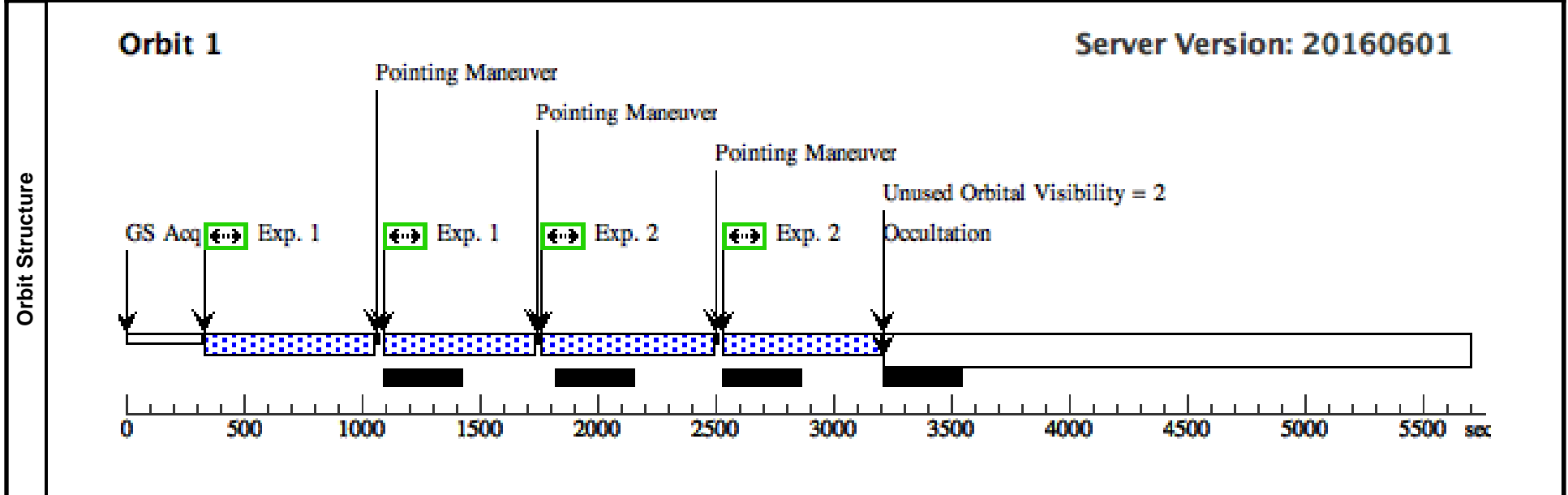


Visit	Proposal 14644, NGC3384-DF8 (14), implementation		
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: ORIENT 275D TO 300 D <i>Comments: ORIENT constraint is to avoid 2 very bright stars.</i>		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(14)	NGC3384-DF8	RA: 10 46 57.1500 (161.7381250d) Dec: +12 59 51.17 (12.99755d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(14) NGC3384-DF8	ACS/WFC, ACCUM, WFC2	F606W		POS TARG 0,0	Pattern 2, Exps 1-1 in NGC3384-DF8 (14) (2)	500 Secs (1026 Secs) [=>513.0 Secs (Pattern 1)] [=>513.0 Secs (Pattern 2)]	[1]
2		(14) NGC3384-DF8	ACS/WFC, ACCUM, WFC2	F814W		POS TARG 0,0	Pattern 2, Exps 2-2 in NGC3384-DF8 (14) (2)	500 Secs (1096 Secs) [=>548.0 Secs (Pattern 1)] [=>548.0 Secs (Pattern 2)]	[1]	



Proposal 14644 - NGC3384-DF9 (15) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

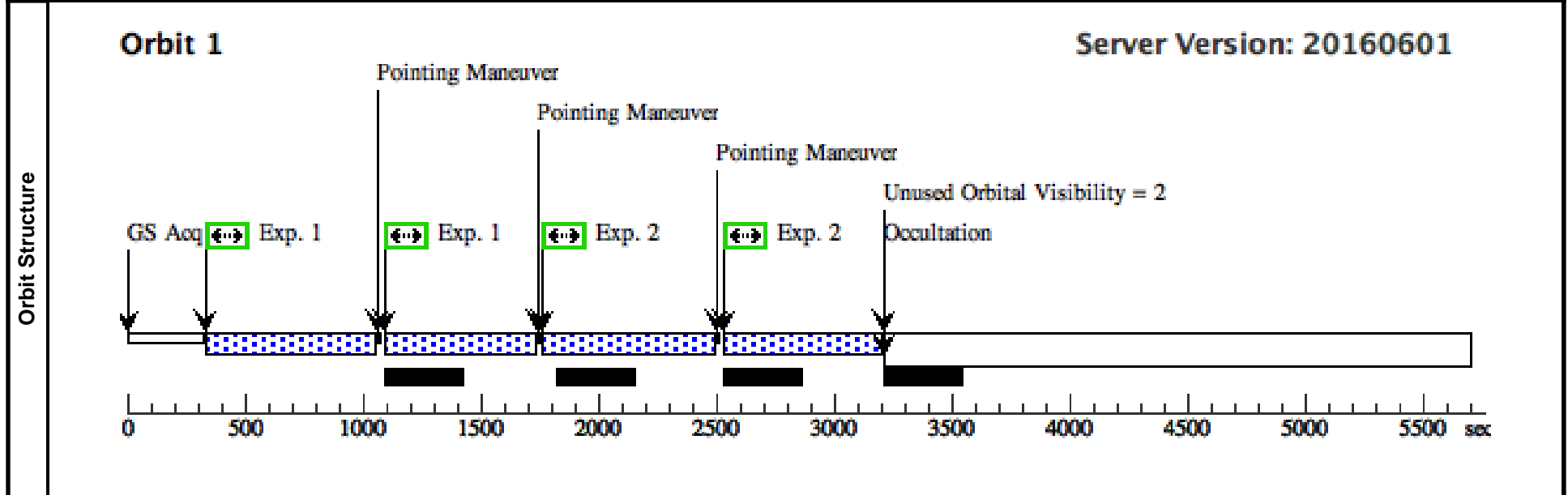
Wed Nov 09 16:32:42 GMT 2016

Visit	Proposal 14644, NGC3384-DF9 (15), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(15)	NGC3384-DF9	RA: 10 46 14.2000 (161.5591667d) Dec: +12 57 39.49 (12.96097d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(15) NGC3384-DF9	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,0	Pattern 2, Exps 1-1 in NGC3384-DF9 (15) (2)	500 Secs (1026 Secs) [=>513.0 Secs (Pattern 1)] [=>513.0 Secs (Pattern 2)]	[1]
	2		(15) NGC3384-DF9	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,0	Pattern 2, Exps 2-2 in NGC3384-DF9 (15) (2)	500 Secs (1096 Secs) [=>548.0 Secs (Pattern 1)] [=>548.0 Secs (Pattern 2)]	[1]



Proposal 14644 - NGC3384-DF10 (16) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects...

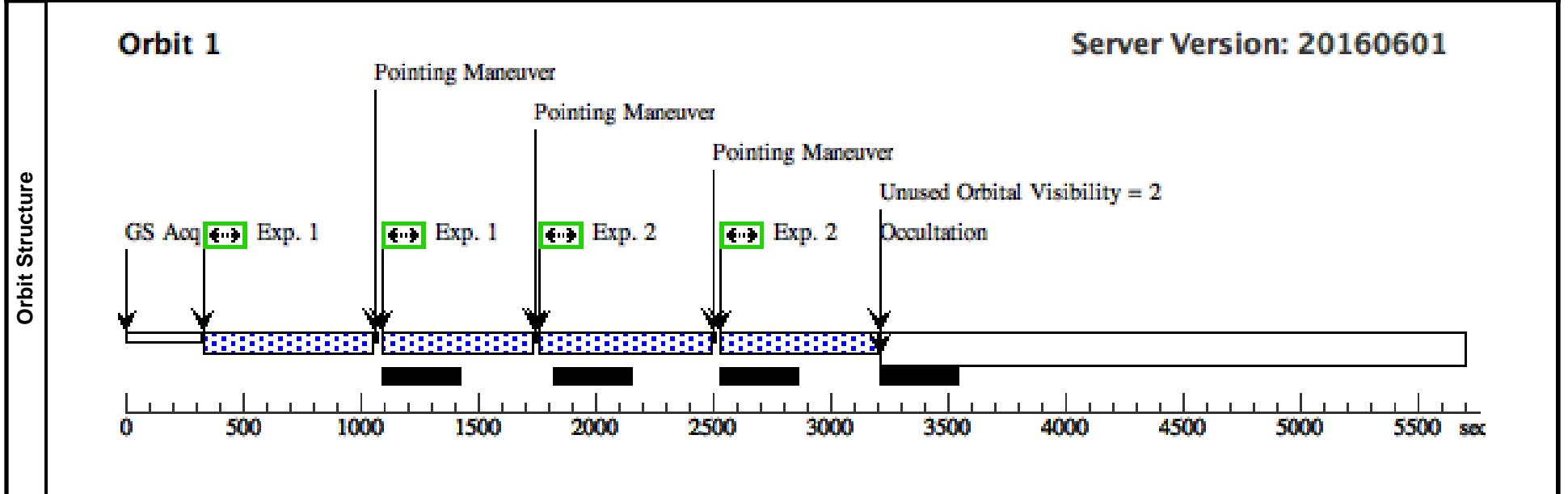
Wed Nov 09 16:32:42 GMT 2016

Visit	Proposal 14644, NGC3384-DF10 (16), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	NGC3384-DF10	RA: 10 48 35.7800 (162.1490833d) Dec: +13 03 38.53 (13.06070d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(16) NGC3384-DF10	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,0	Pattern 2, Exps 1-1 in NGC3384-DF10 (16) (2)	500 Secs (1026 Secs)	
									[=>513.0 Secs (Pattern 1)] [=>513.0 Secs (Pattern 2)]	[1]
2		(16) NGC3384-DF10	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,0	Pattern 2, Exps 2-2 in NGC3384-DF10 (16) (2)	500 Secs (1096 Secs)		
								[=>548.0 Secs (Pattern 1)] [=>548.0 Secs (Pattern 2)]	[1]	



Proposal 14644 - NGC3384-DF11 (17) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects...

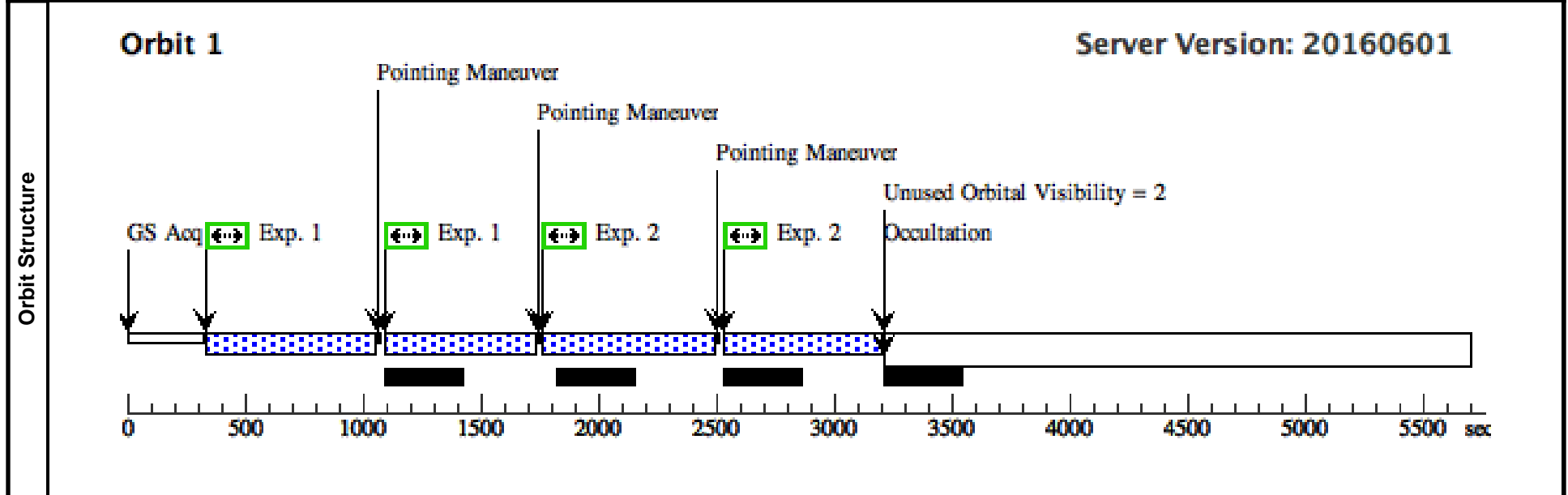
Wed Nov 09 16:32:42 GMT 2016

Visit	Proposal 14644, NGC3384-DF11 (17), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(17)	NGC3384-DF11	RA: 10 46 24.5000 (161.6020833d) Dec: +14 01 27.26 (14.02424d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(17) NGC3384-DF11	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,-15	Pattern 2, Exps 1-1 in NGC3384-DF11 (17) (2)	500 Secs (1026 Secs) [=>513.0 Secs (Pattern 1)] [=>513.0 Secs (Pattern 2)]	[1]
	2		(17) NGC3384-DF11	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,-15	Pattern 2, Exps 2-2 in NGC3384-DF11 (17) (2)	500 Secs (1096 Secs) [=>548.0 Secs (Pattern 1)] [=>548.0 Secs (Pattern 2)]	[1]

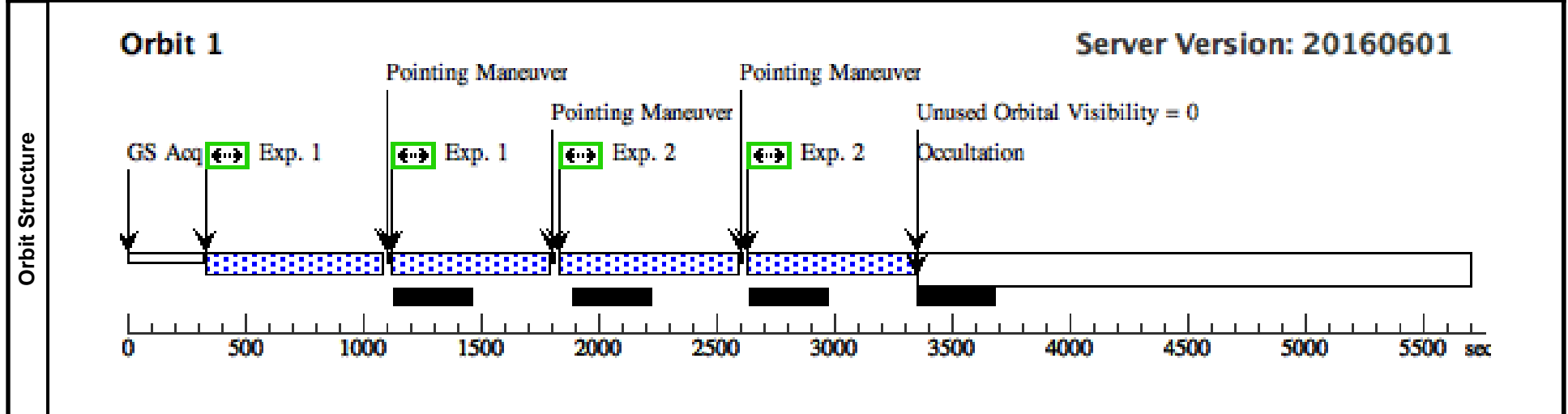


Visit	Proposal 14644, NGC4258-DF1 (18), implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(18)	NGC4258-DF1	RA: 12 20 40.3200 (185.1680000d) Dec: +47 00 1.53 (47.00042d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(18) NGC4258-DF1	ACS/WFC, ACCUM, WFC1	F606W	POS TARG 0,-20	Pattern 2, Exps 1-1 in NGC4258-DF1 (18) (2)	500 Secs (1094 Secs) [=>547.0 Secs (Pattern 1)] [=>547.0 Secs (Pattern 2)]	[1]	
2		(18) NGC4258-DF1	ACS/WFC, ACCUM, WFC1	F814W	POS TARG 0,-20	Pattern 2, Exps 2-2 in NGC4258-DF1 (18) (2)	500 Secs (1164 Secs) [=>582.0 Secs (Pattern 1)] [=>582.0 Secs (Pattern 2)]	[1]		

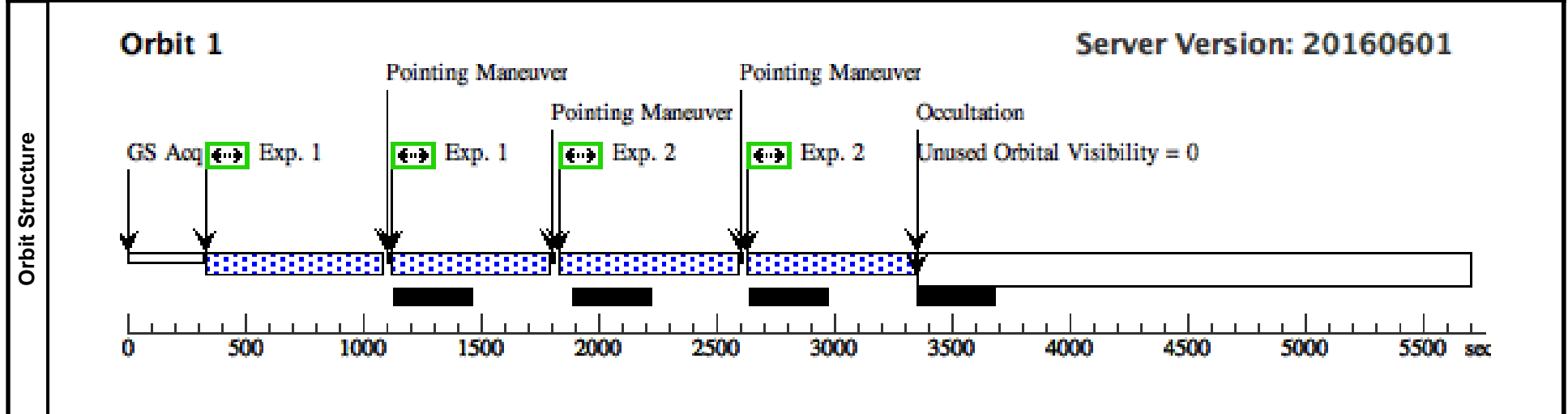


Visit	Proposal 14644, NGC4258-DF2 (19), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(19)	NGC4258-DF2	RA: 12 19 35.9500 (184.8997917d) Dec: +47 05 34.02 (47.09278d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(19) NGC4258-DF2	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,-10	Pattern 2, Exps 1-1 in NGC4258-DF2 (19) (2)	500 Secs (1094 Secs) [=>547.0 Secs (Pattern 1)] [=>547.0 Secs (Pattern 2)]	[1]
	2		(19) NGC4258-DF2	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,-10	Pattern 2, Exps 2-2 in NGC4258-DF2 (19) (2)	500 Secs (1164 Secs) [=>582.0 Secs (Pattern 1)] [=>582.0 Secs (Pattern 2)]	[1]

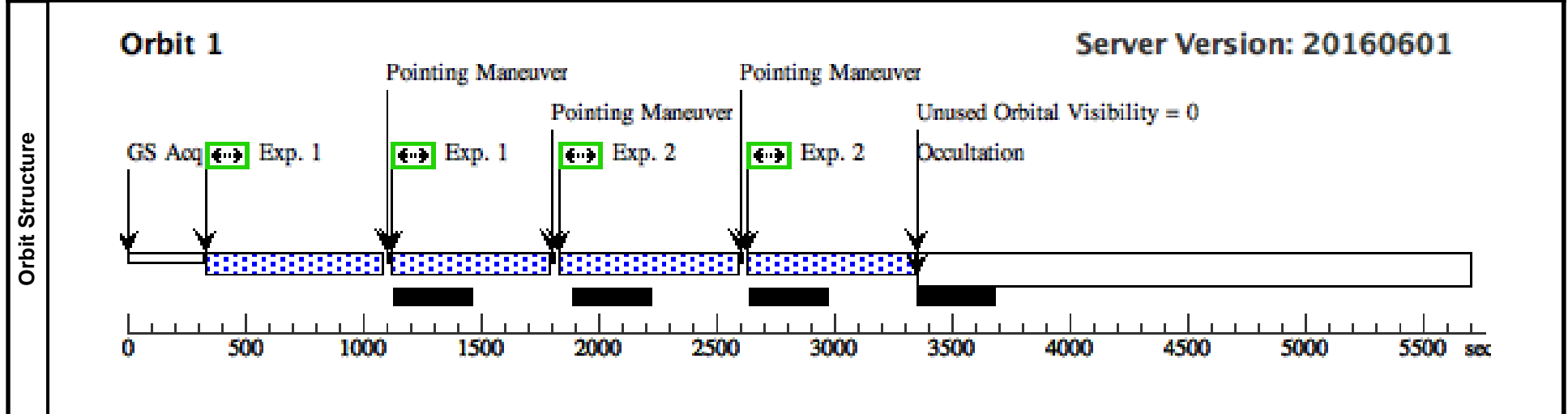


Visit	Proposal 14644, NGC4258-DF3 (20), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(20)	NGC4258-DF3	RA: 12 17 9.3700 (184.2890417d) Dec: +47 03 51.56 (47.06432d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(20) NGC4258-DF3	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,-10	Pattern 2, Exps 1-1 in NGC4258-DF3 (20) (2)	500 Secs (1094 Secs) [=>547.0 Secs (Pattern 1)] [=>547.0 Secs (Pattern 2)]	[1]
	2		(20) NGC4258-DF3	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,-10	Pattern 2, Exps 2-2 in NGC4258-DF3 (20) (2)	500 Secs (1164 Secs) [=>582.0 Secs (Pattern 1)] [=>582.0 Secs (Pattern 2)]	[1]

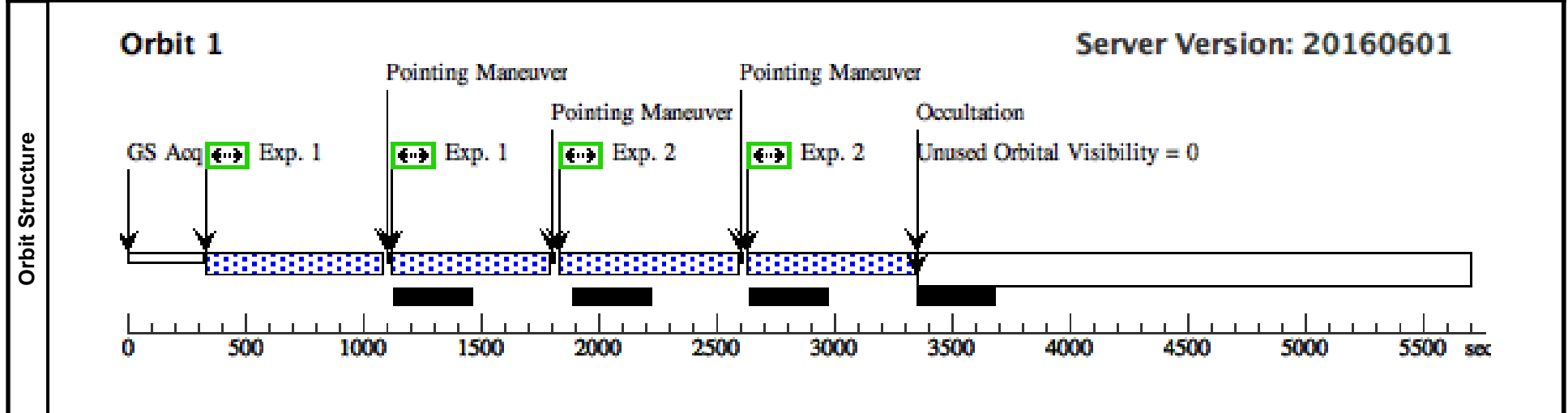


Visit	Proposal 14644, NGC4258-DF5 (21), implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: ORIENT 100D TO 125 D <i>Comments: ORIENTS and position to avoid bright star</i>		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	(1), (2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(21)	NGC4258-DF5	RA: 12 15 47.8000 (183.9491667d) Dec: +47 32 3.90 (47.53442d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(21) NGC4258-DF5	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,-10; GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 1-1 i n NGC4258-DF5 (21)) (2)	500 Secs (1094 Secs) [=>547.0 Secs (Pattern 1)] [=>547.0 Secs (Pattern 2)]	[1]
	2		(21) NGC4258-DF5	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,-10	Pattern 2, Exps 2-2 i n NGC4258-DF5 (21)) (2)	500 Secs (1164 Secs) [=>582.0 Secs (Pattern 1)] [=>582.0 Secs (Pattern 2)]	[1]



Proposal 14644 - NGC4258-DF6 (22) - Exploring the extremely low surface brightness sky: distances to 23 newly discovered objects i...

Wed Nov 09 16:32:42 GMT 2016

Visit	Proposal 14644, NGC4258-DF6 (22), implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: ACS/WFC		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(22)	NGC4258-DF6	RA: 12 19 5.9400 (184.7747500d) Dec: +47 43 50.51 (47.73070d) Equinox: J2000		V=25	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(22) NGC4258-DF6	ACS/WFC, ACCUM, WFC1	F606W		POS TARG 0,-10	Pattern 2, Exps 1-1 in NGC4258-DF6 (22) (2)	500 Secs (1094 Secs) [=>547.0 Secs (Pattern 1)] [=>547.0 Secs (Pattern 2)]	[1]
	2		(22) NGC4258-DF6	ACS/WFC, ACCUM, WFC1	F814W		POS TARG 0,-10	Pattern 2, Exps 2-2 in NGC4258-DF6 (22) (2)	500 Secs (1164 Secs) [=>582.0 Secs (Pattern 1)] [=>582.0 Secs (Pattern 2)]	[1]

