



15271 - Can Low-Luminosity Galaxies Reionize the Universe?

Cycle: 25, Proposal Category: GO

(UV Initiative, JWST Initiative)

(Availability Mode: SUPPORTED)

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VISITS

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
01	(1) DSSJ0851+3331-B	ACS/SBC	2	06-Mar-2019 10:00:30.0	yes
02	(1) DSSJ0851+3331-B	ACS/SBC	2	06-Mar-2019 10:00:31.0	yes
03	(2) DSSJ0915+3826-A	ACS/SBC	2	06-Mar-2019 10:00:32.0	yes
04	(2) DSSJ0915+3826-A	ACS/SBC	1	06-Mar-2019 10:00:32.0	yes
05	(5) DSSJ1138+2754-AC	ACS/SBC	2	06-Mar-2019 10:00:33.0	yes
06	(5) DSSJ1138+2754-AC	ACS/SBC	2	06-Mar-2019 10:00:33.0	yes
07	(5) DSSJ1138+2754-AC	ACS/SBC	2	06-Mar-2019 10:00:34.0	yes
08	(5) DSSJ1138+2754-AC	ACS/SBC	1	06-Mar-2019 10:00:34.0	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	(7) M0329-2556	ACS/SBC	2	06-Mar-2019 10:00:35.0	yes
10	(7) M0329-2556	ACS/SBC	2	06-Mar-2019 10:00:35.0	yes
11	(7) M0329-2556	ACS/SBC	2	06-Mar-2019 10:00:36.0	yes
59	(7) M0329-2556	ACS/SBC	2	06-Mar-2019 10:00:36.0	yes
60	(7) M0329-2556	ACS/SBC	2	06-Mar-2019 10:00:37.0	yes
61	(7) M0329-2556	ACS/SBC	2	06-Mar-2019 10:00:38.0	yes
12	(8) M1115-2511	ACS/SBC	2	06-Mar-2019 10:00:38.0	yes
13	(8) M1115-2511	ACS/SBC	2	06-Mar-2019 10:00:39.0	yes
14	(8) M1115-2511	ACS/SBC	2	06-Mar-2019 10:00:39.0	yes
15	(8) M1115-2511	ACS/SBC	2	06-Mar-2019 10:00:40.0	yes
16	(9) M1206-4340	WFC3/UVIS	2	06-Mar-2019 10:00:40.0	yes
17	(9) M1206-4340	WFC3/UVIS	2	06-Mar-2019 10:00:41.0	yes
18	(9) M1206-4340	WFC3/UVIS	2	06-Mar-2019 10:00:41.0	yes
19	(9) M1206-4340	WFC3/UVIS	2	06-Mar-2019 10:00:41.0	yes
20	(10) DSSJ1439+1208-A	ACS/SBC	3	06-Mar-2019 10:00:42.0	yes

45 Total Orbits Used

ABSTRACT

The prevailing wisdom is that low-luminosity galaxies are responsible for cosmic reionization. If this is true, then low-luminosity galaxies at high redshift have to be different from most of the low-luminosity galaxies studied to date at low redshift, which absorb too much of their ionizing radiation. While it is possible that high- z dwarf galaxies have the same metallicity at fixed mass and star-formation rate as low-redshift galaxies, they are different in one key respect. At fixed dark-halo mass, they are probably much denser (having collapsed earlier). This could lead to higher star-formation surface densities more capable of creating cavities in the ISM. But the denser halos of surrounding gas could be harder to clear.

There is a critical need for further observations to validate and test physical models for the trends of escaping ionizing continuum with redshift, luminosity, and surface density. JWST will not be able to measure ionizing radiation during the epoch of reionization because the IGM absorbs most

Proposal 15271 (STScI Edit Number: 0, Created: Wednesday, March 6, 2019 at 10:00:43 AM Eastern Standard Time) - Overview

of the photons. To prepare for JWST, we need to use the ultraviolet capabilities of HST to measure diverse samples of galaxies at $z < 3$, where we can see the photons and quantify the trends with other galaxy properties.

As a complement to other studies, we propose to constrain the Lyman-continuum emission from 8 relatively low-luminosity strongly-lensed galaxies at $1 < z < 3$. Coupled with ongoing work at $z \sim 0$, this will allow us to test for redshift evolution in the physical observables that can be used to predict Lyman-continuum radiation.

OBSERVING DESCRIPTION

Our targets come from the Sloan Giant Arc Survey (Bayliss et al. 2011) and CLASH (Postman et al. 2012). We will measure the LyC radiation using a broad-band filter sufficiently shortward of the break. We have chosen instrument/filter/redshift combinations to ensure that uncertainties in the redleak will not dominate the uncertainties in the LyC measurement. The ACS SBC/F150LP is used for $z < 1.6$ and F336W for $z > 3.02$. The targets all have images in the HLA and we have used photometry on these images to estimate the AB magnitudes in the WFC3 F390W band. We used an isophotal area measured from the existing images to estimate an aperture radius for the ETC calculations. The objects are expected to be at least two magnitudes fainter in the UV bands with which we are observing them. The BOT tool reveals no sources of concern nearby.

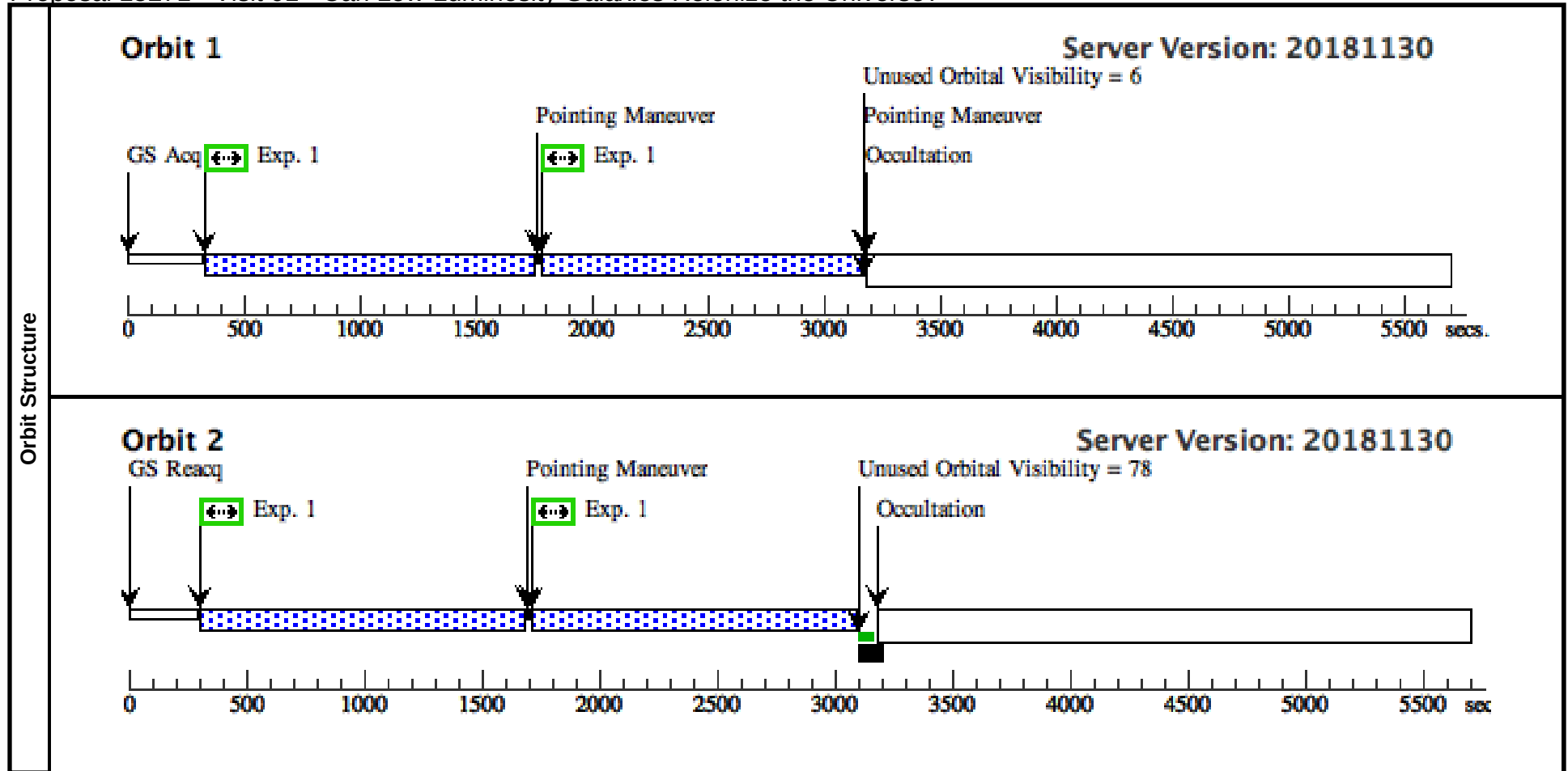
In several of the fields there are nearby arcs that are of secondary interest for the proposal. We have selected orientation ranges to keep the secondary targets in the field along with the primary target, and adjusted the positions for two of the targets to lie between the primary and secondary target so that the orientation ranges can be quite large.

For the target observed with WFC3 UVIS, we have created four 2-orbit visits with full-orbit exposures and preflash to bring the expected background up to 12 electrons. We implement the UVIS box dither pattern using POS TARGs. We use the UVIS2-C1K1C-CTE aperture to mitigate CTE trailing.

For the ACS SBC observations we have planned 2-3 orbit visits. The observations will benefit from having the lowest background. Figure 4.14 of the ACS handbook shows that the dark current increases significantly when the operating temperature gets above 26 C, which happens after the high-voltage has been on for about several hours. We therefore request that our observations not be scheduled right after other SBC observations.

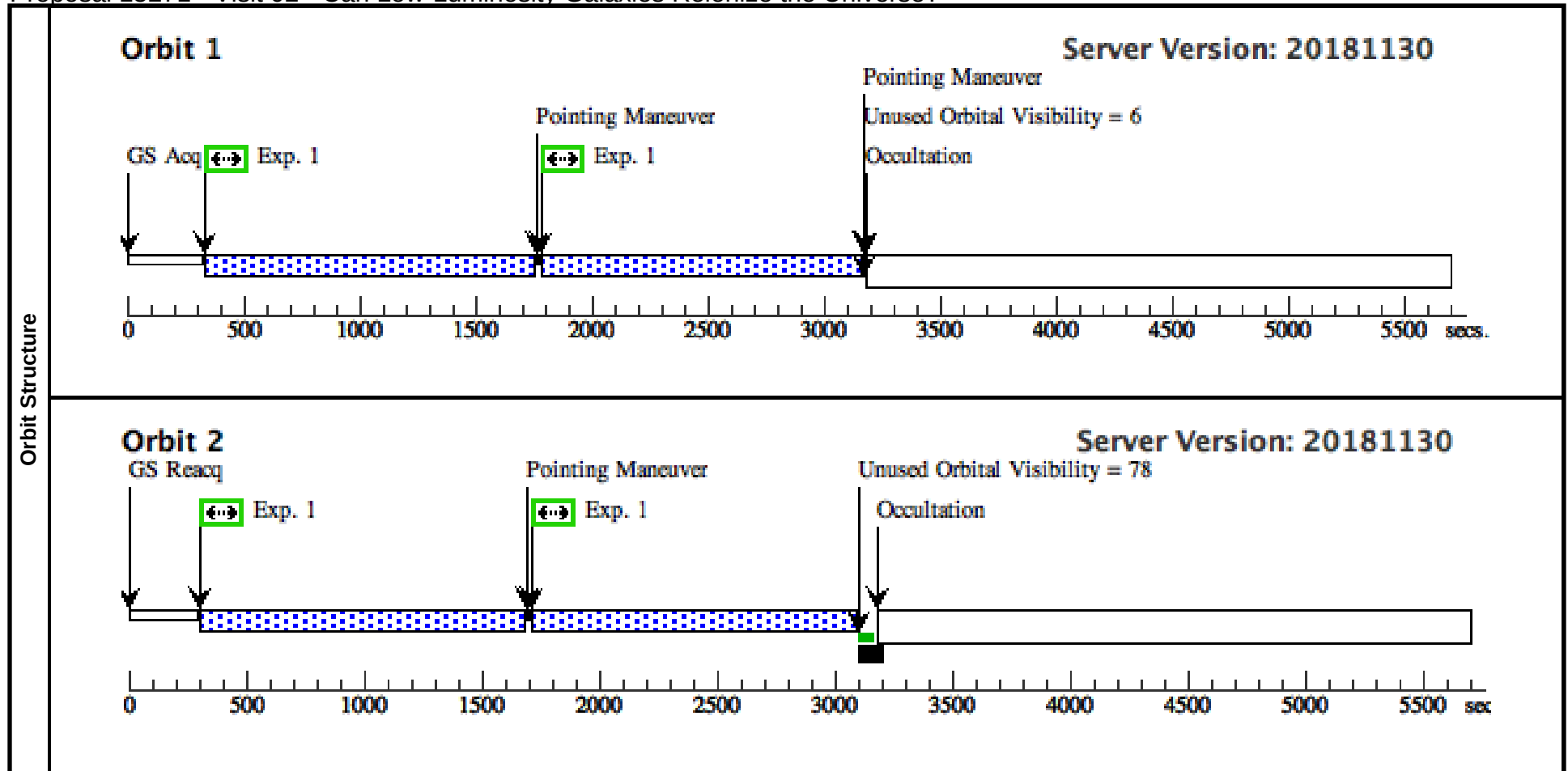
Proposal 15271 - Visit 01 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 01, completed										Wed Mar 06 15:00:43 GMT 2019		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: ACS/SBC												
	Special Requirements: (none)												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.179 Line Spacing=0.116			Coordinate Frame=POS-TARG Pattern Orientation=20.02 Angle Between Sides=63.65 Center Pattern=true							(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	DSSJ0851+3331-B		RA: 08 51 37.9870 (132.9082792d) Dec: +33 31 6.88 (33.51858d) Equinox: J2000				V=24.4+/-1.0 F390W_AB = 24.72		Reference Frame: ICRS			
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups		Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(ACS.im.10 13489)	(1) DSSJ0851+3331-B	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Visit 01 (1)		1350 Secs (5400 Secs)		
											[=>(Pattern 1)]		
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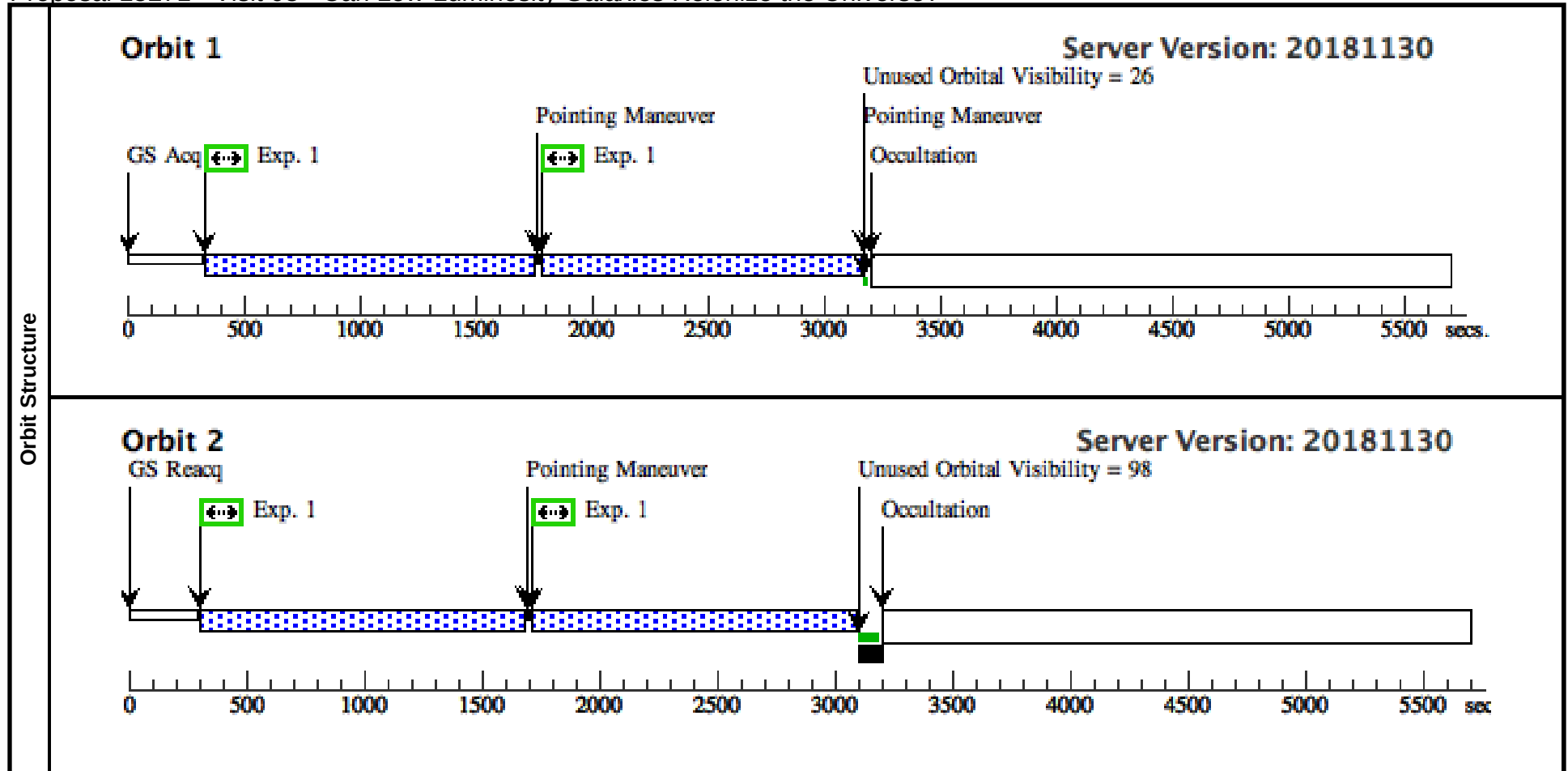
Proposal 15271 - Visit 02 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 02, scheduling										Wed Mar 06 15:00:43 GMT 2019		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: ACS/SBC												
	Special Requirements: (none)												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.179 Line Spacing=0.116			Coordinate Frame=POS-TARG Pattern Orientation=20.02 Angle Between Sides=63.65 Center Pattern=true							(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	DSSJ0851+3331-B		RA: 08 51 37.9870 (132.9082792d) Dec: +33 31 6.88 (33.51858d) Equinox: J2000				V=24.4+/-1.0 F390W_AB = 24.72		Reference Frame: ICRS			
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups		Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(ACS.im.10 13489)	(1) DSSJ0851+3331-B	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Visit 02 (1)		1350 Secs (5400 Secs)		
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											[=>(Pattern 3)]		
										[=>(Pattern 4)]		[2]	



Proposal 15271 - Visit 03 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 03, scheduling										Wed Mar 06 15:00:43 GMT 2019		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: ACS/SBC												
	Special Requirements: ORIENT 62D TO 159 D; ORIENT 275D TO 304 D												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Patterns	#	Primary Pattern				Secondary Pattern				Exposures			
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.179 Line Spacing=0.116		Coordinate Frame=POS-TARG Pattern Orientation=20.02 Angle Between Sides=63.65 Center Pattern=true						(1)			
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(2)	DSSJ0915+3826-A	RA: 09 15 38.1470 (138.9089458d) Dec: +38 27 4.62 (38.45128d) Equinox: J2000				V=22.4+/-1.0 F390W_AB = 22.78		Reference Frame: ICRS				
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(ACS.im.10 13492)	(2) DSSJ0915+3826-A	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Visit 03 (1)	1350 Secs (5400 Secs)			
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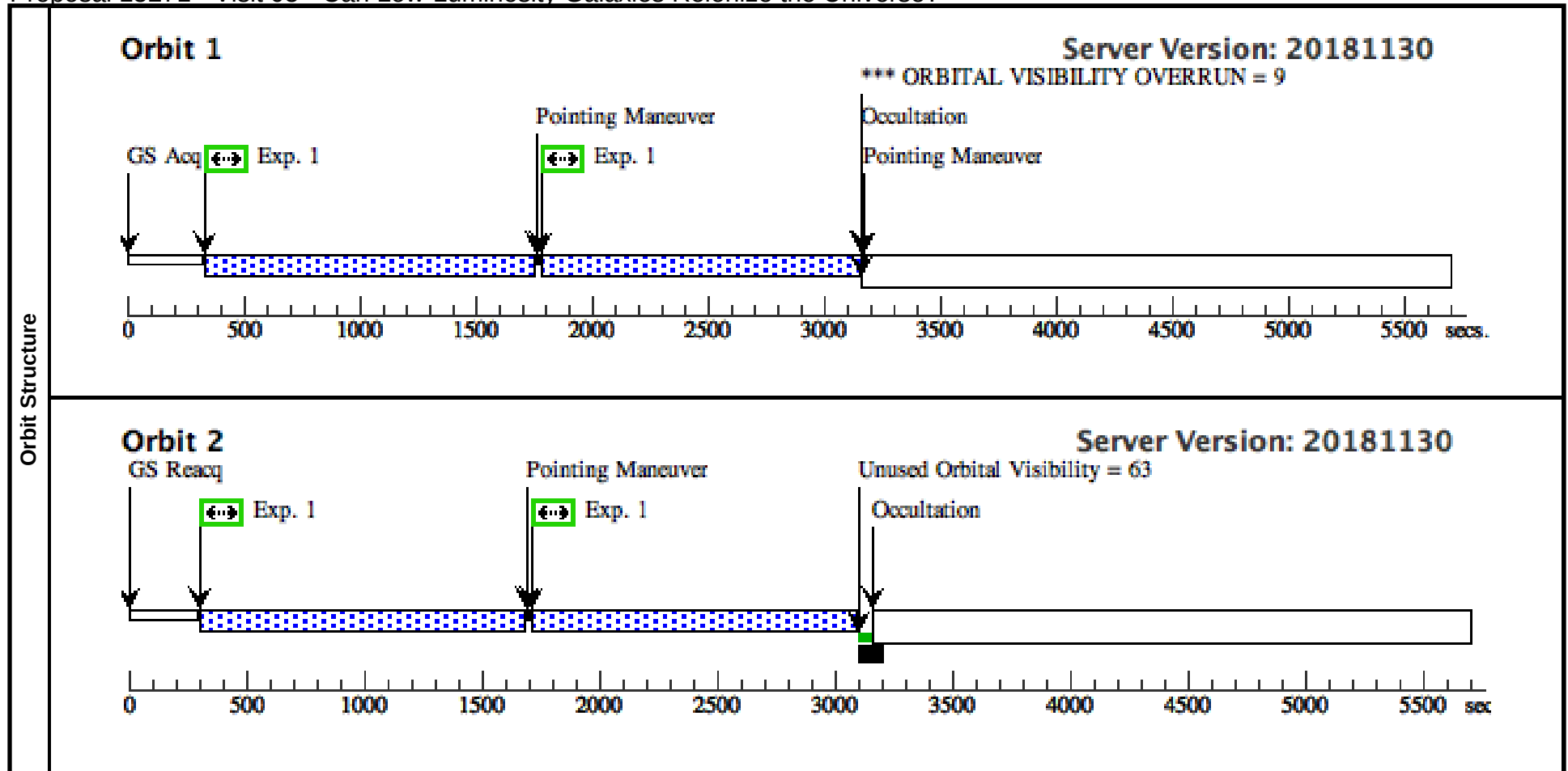


Proposal 15271 - Visit 04 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 04, completed										Wed Mar 06 15:00:43 GMT 2019	
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC Special Requirements: ORIENT 62D TO 159 D; ORIENT 275D TO 304 D Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures		
	(2)	Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.472 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false				(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	DSSJ0915+3826-A	RA: 09 15 38.1470 (138.9089458d) Dec: +38 27 4.62 (38.45128d) Equinox: J2000				V=22.4+/-1.0 F390W_AB = 22.78		Reference Frame: ICRS			
Exposures	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]											
	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(ACS.im.10 13492)	(2) DSSJ0915+3826-A	ACS/SBC, ACCUM, SBC		F150LP			Pattern 2, Exps 1-1 in Visit 04 (2)	1350 Secs (2700 Secs)		
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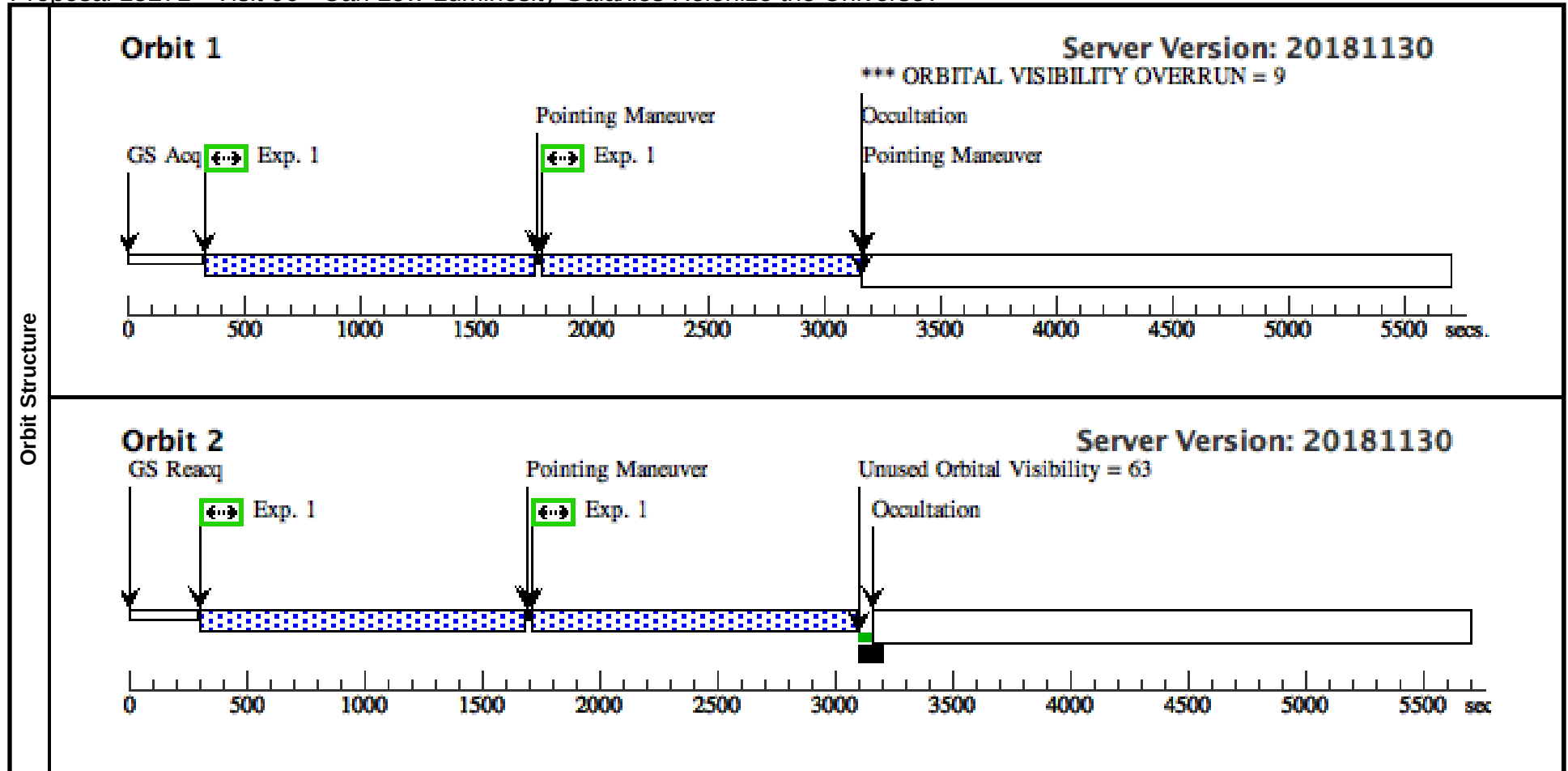
Proposal 15271 - Visit 05 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 05, scheduling										Wed Mar 06 15:00:43 GMT 2019	
	Diagnostic Status: Warning											
	Scientific Instruments: ACS/SBC											
	Special Requirements: ORIENT 343D TO 101 D; ORIENT 159D TO 182 D											
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.												
Diagnostics	(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.02 Purpose=DITHER Angle Between Sides=63.65 Number Of Points=4 Center Pattern=true Point Spacing=0.179 Line Spacing=0.116									(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(5)	DSSJ1138+2754-AC		RA: 11 38 8.7768 (174.5365700d) Dec: +27 54 42.91 (27.91192d) Equinox: J2000				V=24.5+/-1.0 F390W_AB=24.58		Reference Frame: ICRS		
Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(ACS.im.10 13494)	(5) DSSJ1138+2754- AC	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 i n Visit 05 (1)	1350 Secs (5400 Secs)		
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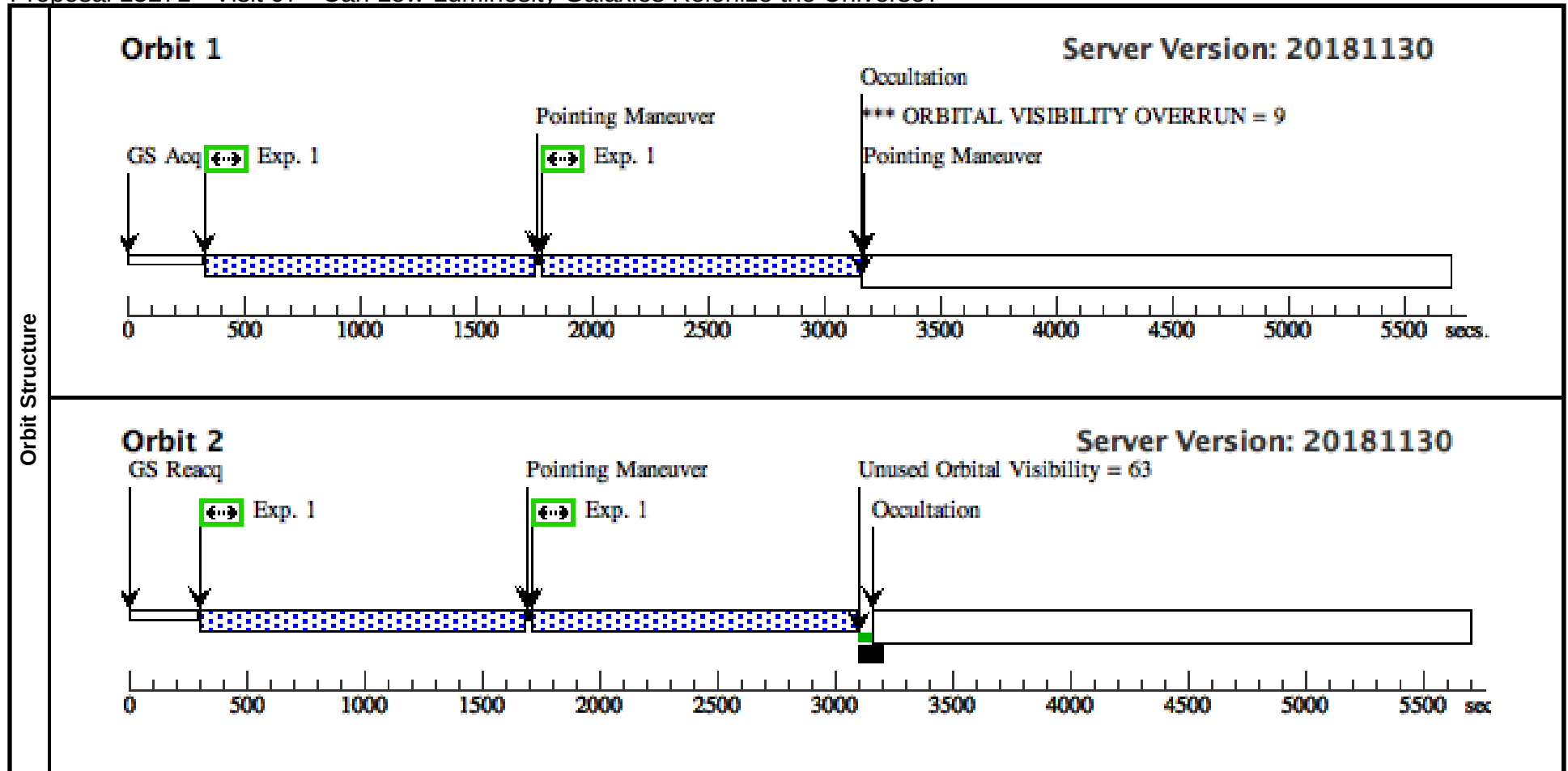
Proposal 15271 - Visit 06 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 06, scheduling										Wed Mar 06 15:00:43 GMT 2019		
	Diagnostic Status: Warning												
	Scientific Instruments: ACS/SBC												
	Special Requirements: ORIENT 343D TO 101 D; ORIENT 159D TO 182 D												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Diagnostics	(Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
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Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(5)	DSSJ1138+2754-AC		RA: 11 38 8.7768 (174.5365700d) Dec: +27 54 42.91 (27.91192d) Equinox: J2000				V=24.5+/-1.0 F390W_AB=24.58		Reference Frame: ICRS			
Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(ACS.im.10 13494)	(5) DSSJ1138+2754- AC	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 i n Visit 06 (1)	1350 Secs (5400 Secs)			
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										[==>(Pattern 3)] [==>(Pattern 4)]		[2]	



Proposal 15271 - Visit 07 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 07, scheduling										Wed Mar 06 15:00:43 GMT 2019		
	Diagnostic Status: Warning												
	Scientific Instruments: ACS/SBC												
	Special Requirements: ORIENT 343D TO 101 D; ORIENT 159D TO 182 D												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Diagnostics	(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
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Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(5)	DSSJ1138+2754-AC		RA: 11 38 8.7768 (174.5365700d) Dec: +27 54 42.91 (27.91192d) Equinox: J2000				V=24.5+/-1.0 F390W_AB=24.58		Reference Frame: ICRS			
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(ACS.im.10 13494)	(5) DSSJ1138+2754-AC	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Visit 07 (1)	1350 Secs (5400 Secs)			
										[==>(Pattern 1)]		[1]	
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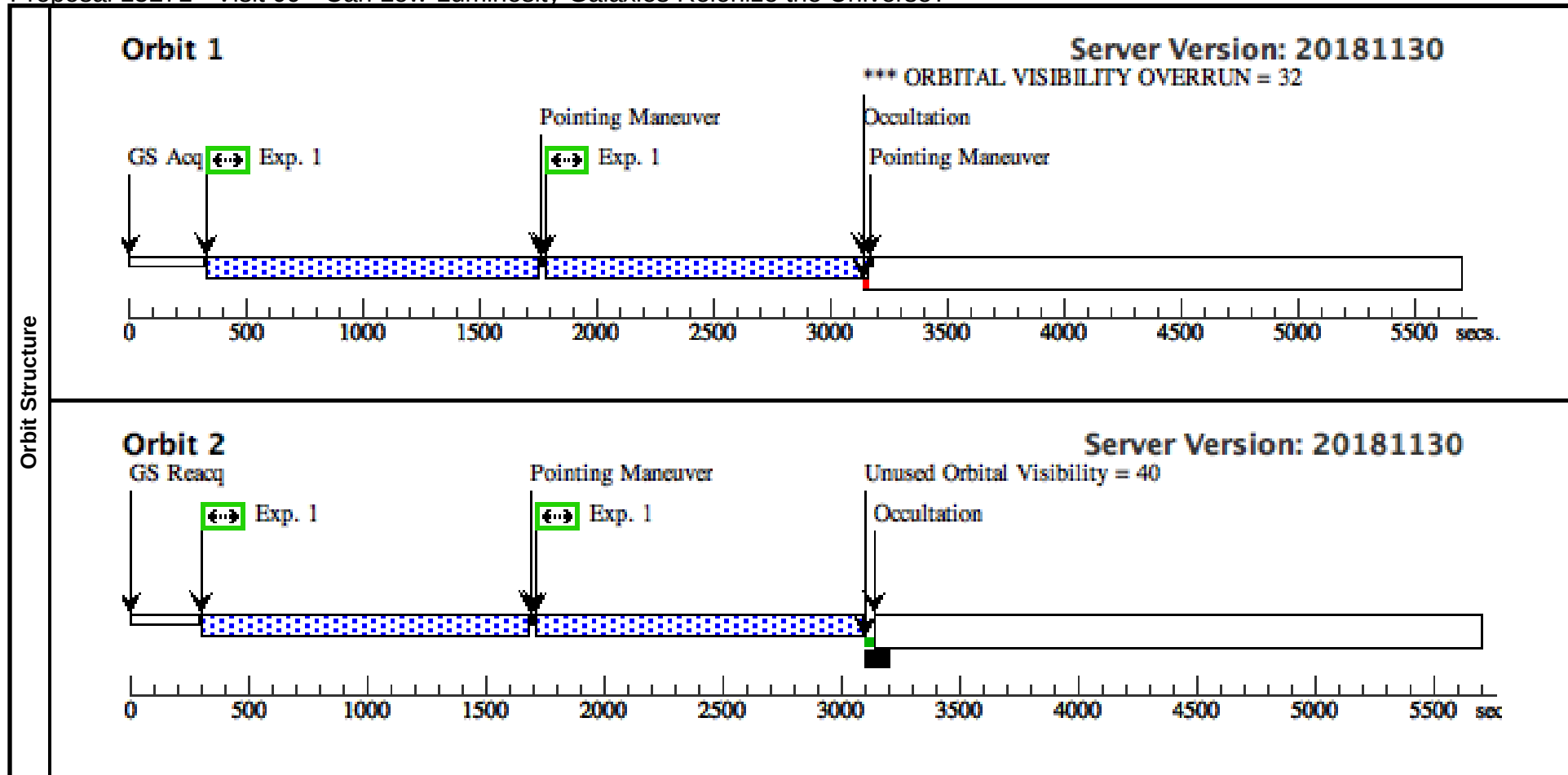


Proposal 15271 - Visit 08 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 08, scheduling					Wed Mar 06 15:00:43 GMT 2019					
	Diagnostic Status: Warning Scientific Instruments: ACS/SBC Special Requirements: ORIENT 343D TO 101 D; ORIENT 159D TO 182 D Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.										
Diagnostics	(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(2)	Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.472 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false								(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(5)	DSSJ1138+2754-AC		RA: 11 38 8.7768 (174.5365700d) Dec: +27 54 42.91 (27.91192d) Equinox: J2000				V=24.5+/-1.0 F390W_AB=24.58		Reference Frame: ICRS	
Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	
	1	(ACS.im.10 13494)	(5) DSSJ1138+2754-AC	ACS/SBC, ACCUM, SBC		F150LP			Pattern 2, Exps 1-1 i n Visit 08 (2)	1350 Secs (2700 Secs)	
										[==>(Pattern 1)] [==>(Pattern 2)]	
Orbit Structure	Orbit 1 Server Version: 20181130 GS Acq Exp. 1 Pointing Maneuver Exp. 1 *** ORBITAL VISIBILITY OVERRUN = 9 Occultation <										

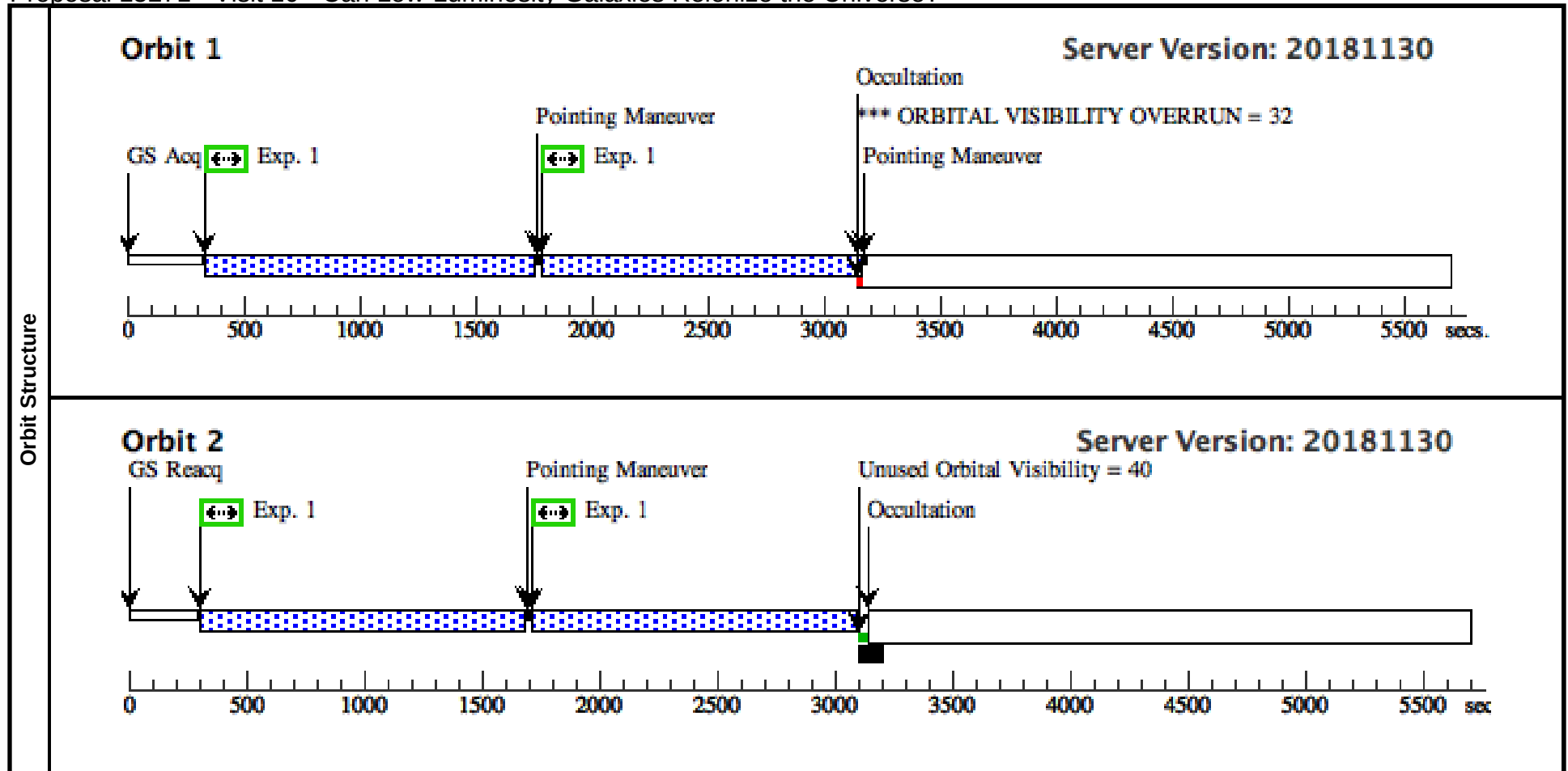
Proposal 15271 - Visit 09 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 09, failed										Wed Mar 06 15:00:43 GMT 2019		
	Diagnostic Status: Warning												
	Scientific Instruments: ACS/SBC												
	Special Requirements: (none)												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Diagnostics	(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.02 Purpose=DITHER Angle Between Sides=63.65 Number Of Points=4 Center Pattern=true Point Spacing=0.179 Line Spacing=0.116										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(7)	M0329-2556		RA: 03 29 43.0570 (52.4294042d) Dec: -02 11 38.53 (-2.19404d) Equinox: J2000				V=23.1+/-1.0 F390W_AB=23.0		Reference Frame: ICRS			
Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(ACS.im.10 13525)	(7) M0329-2556	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Visit 09 (1)	1350 Secs (5400 Secs)			
										[==>(Pattern 1)]			
										[==>(Pattern 2)]		[1]	
										[==>(Pattern 3)]			
										[==>(Pattern 4)]		[2]	



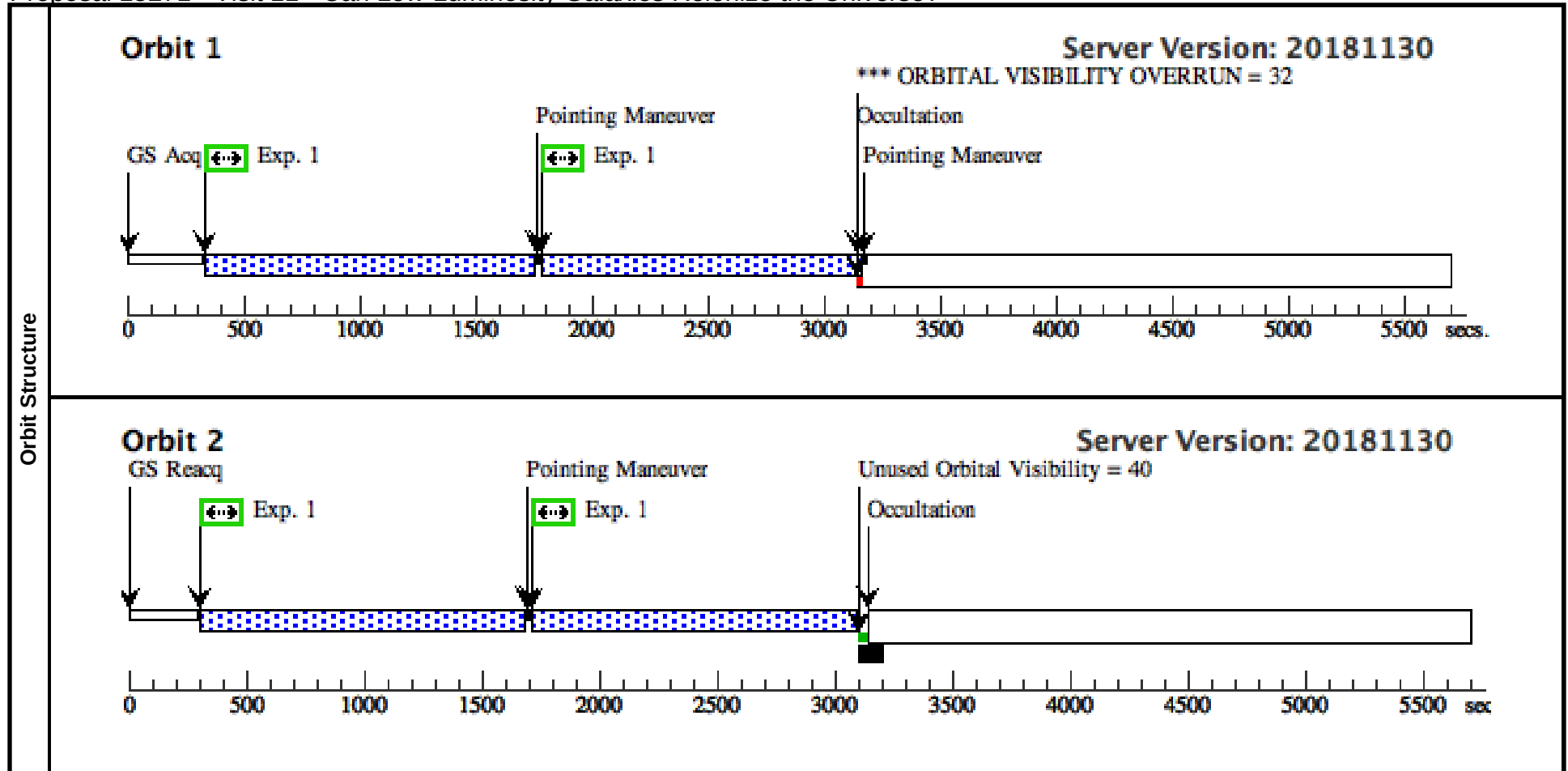
Proposal 15271 - Visit 10 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 10, failed										Wed Mar 06 15:00:43 GMT 2019		
	Diagnostic Status: Warning												
	Scientific Instruments: ACS/SBC												
	Special Requirements: (none)												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Diagnostics	(Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.02 Purpose=DITHER Angle Between Sides=63.65 Number Of Points=4 Center Pattern=true Point Spacing=0.179 Line Spacing=0.116										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(7)	M0329-2556		RA: 03 29 43.0570 (52.4294042d) Dec: -02 11 38.53 (-2.19404d) Equinox: J2000				V=23.1+/-1.0 F390W_AB=23.0		Reference Frame: ICRS			
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(ACS.im.10 13525)	(7) M0329-2556	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Visit 10 (1)	1350 Secs (5400 Secs)			
										[==>(Pattern 1)]		[1]	
										[==>(Pattern 2)]			
										[==>(Pattern 3)]			
										[==>(Pattern 4)]		[2]	



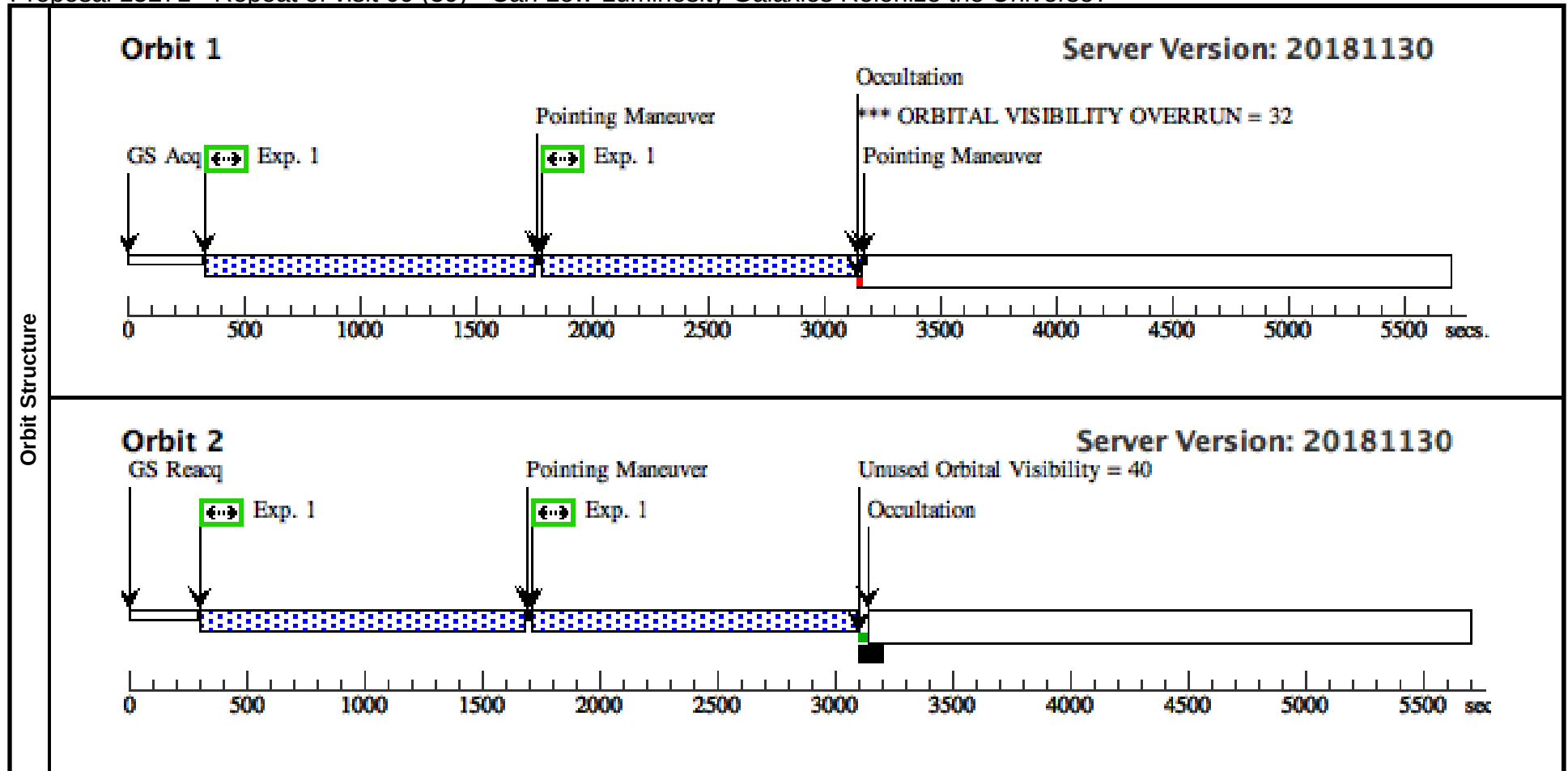
Proposal 15271 - Visit 11 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 11, failed										Wed Mar 06 15:00:43 GMT 2019		
	Diagnostic Status: Warning												
	Scientific Instruments: ACS/SBC												
	Special Requirements: (none)												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Diagnostics	(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.02 Purpose=DITHER Angle Between Sides=63.65 Number Of Points=4 Center Pattern=true Point Spacing=0.179 Line Spacing=0.116										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(7)	M0329-2556		RA: 03 29 43.0570 (52.4294042d) Dec: -02 11 38.53 (-2.19404d) Equinox: J2000				V=23.1+/-1.0 F390W_AB=23.0		Reference Frame: ICRS			
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(ACS.im.10 13525)	(7) M0329-2556	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Visit 11 (1)	1350 Secs (5400 Secs)			
										[==>(Pattern 1)]		[1]	
										[==>(Pattern 2)]			
										[==>(Pattern 3)]			
										[==>(Pattern 4)]		[2]	



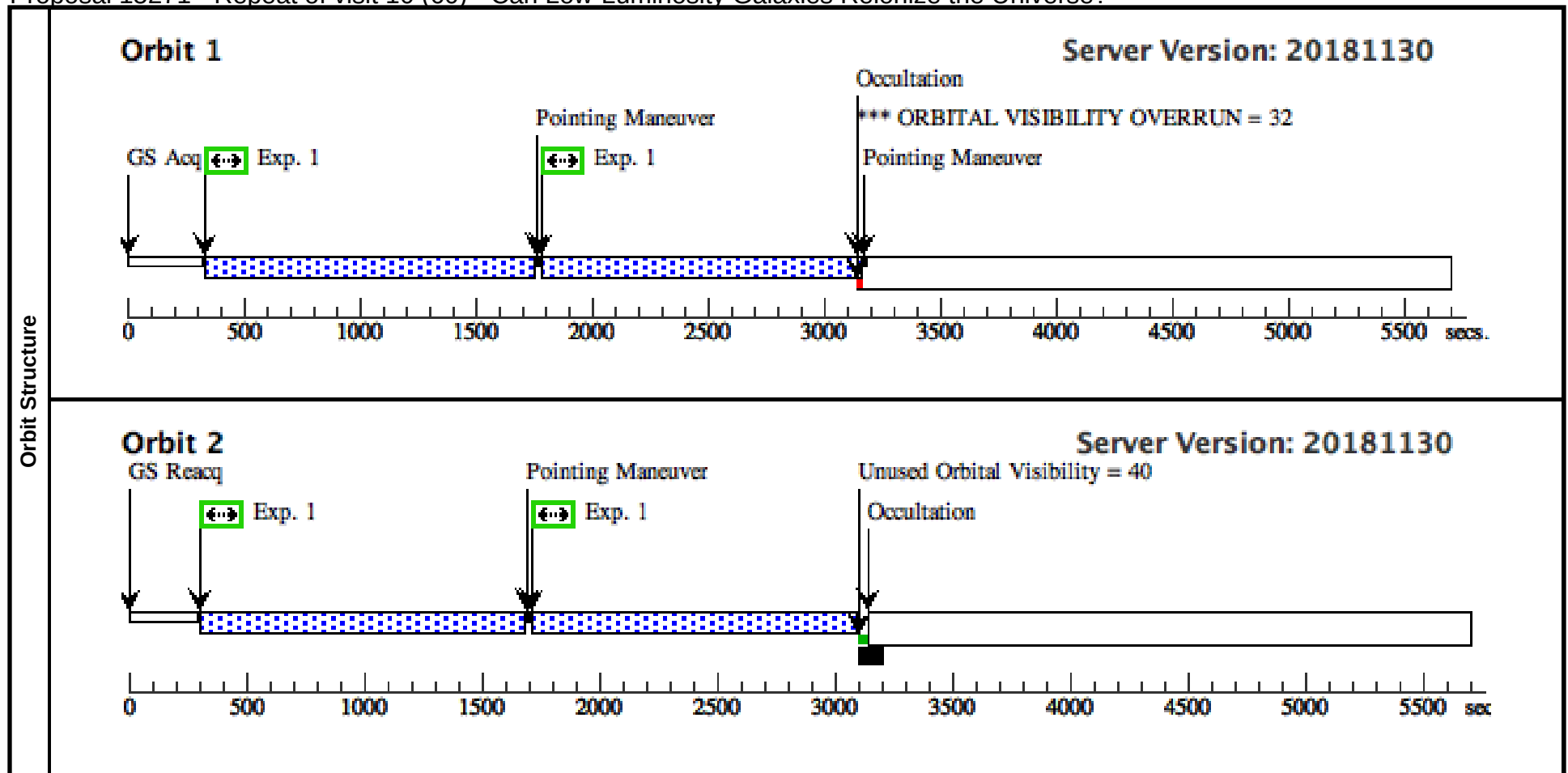
Proposal 15271 - Repeat of visit 09 (59) - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Repeat of visit 09 (59)										Wed Mar 06 15:00:43 GMT 2019		
	Diagnostic Status: Warning												
	Scientific Instruments: ACS/SBC												
	Special Requirements: (none)												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Diagnostics	(Repeat of visit 09 (59)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.02 Purpose=DITHER Angle Between Sides=63.65 Number Of Points=4 Center Pattern=true Point Spacing=0.179 Line Spacing=0.116										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(7)	M0329-2556		RA: 03 29 43.0570 (52.4294042d) Dec: -02 11 38.53 (-2.19404d) Equinox: J2000				V=23.1+/-1.0 F390W_AB=23.0		Reference Frame: ICRS			
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(ACS.im.10 13525)	(7) M0329-2556	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Repeat of visit 09 (59) (1)	1350 Secs (5400 Secs)			
										[==>(Pattern 1)]		[1]	
										[==>(Pattern 2)]			
										[==>(Pattern 3)]			
										[==>(Pattern 4)]		[2]	



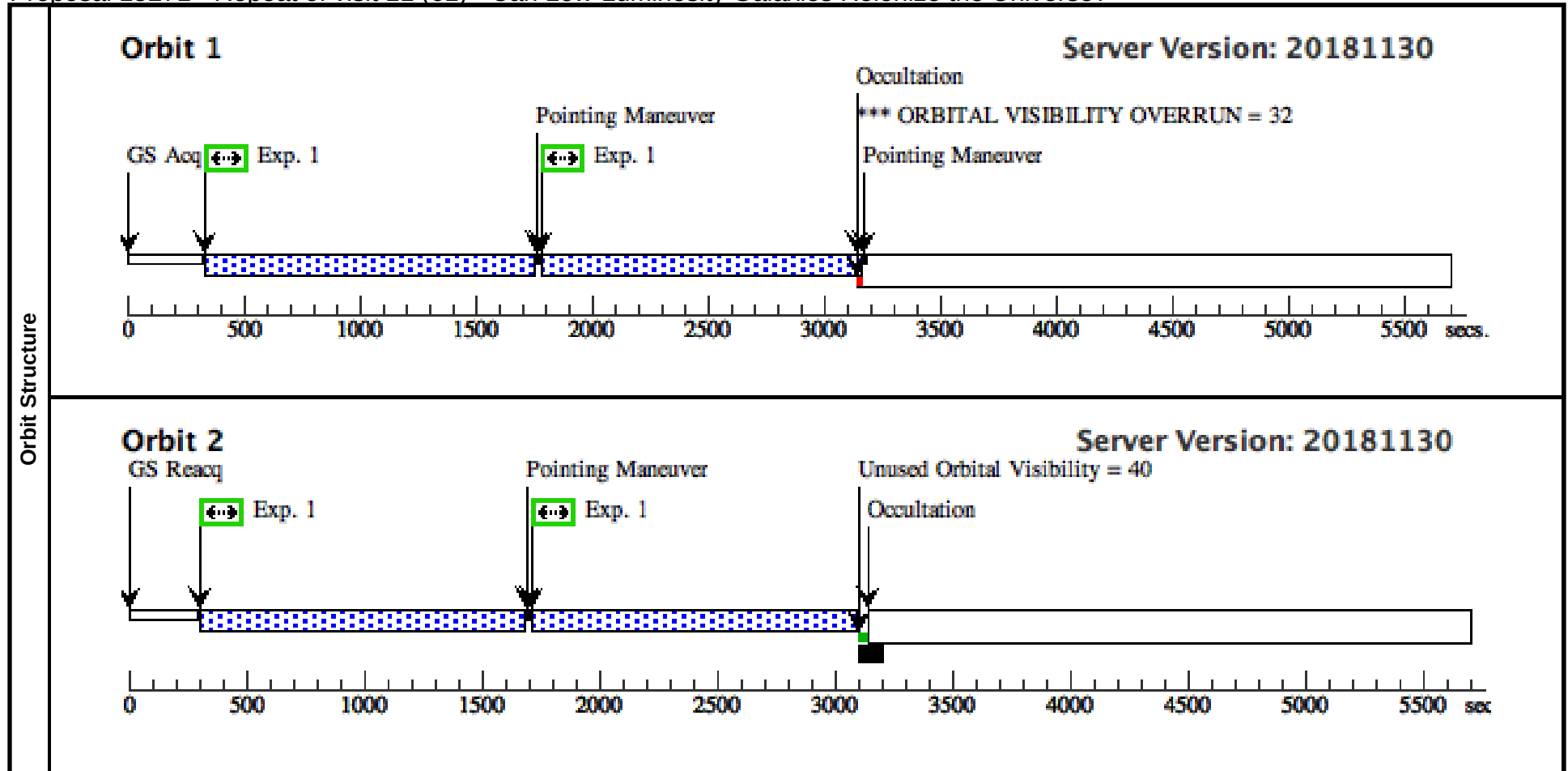
Proposal 15271 - Repeat of visit 10 (60) - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Repeat of visit 10 (60)										Wed Mar 06 15:00:44 GMT 2019		
	Diagnostic Status: Warning												
	Scientific Instruments: ACS/SBC												
	Special Requirements: (none)												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Diagnostics	(Repeat of visit 10 (60)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.02 Purpose=DITHER Angle Between Sides=63.65 Number Of Points=4 Center Pattern=true Point Spacing=0.179 Line Spacing=0.116										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(7)	M0329-2556		RA: 03 29 43.0570 (52.4294042d) Dec: -02 11 38.53 (-2.19404d) Equinox: J2000				V=23.1+/-1.0 F390W_AB=23.0		Reference Frame: ICRS			
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(ACS.im.10 13525)	(7) M0329-2556	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Repeat of visit 10 (60) (1)	1350 Secs (5400 Secs)			
										[==>(Pattern 1)]		[1]	
										[==>(Pattern 2)]			
										[==>(Pattern 3)]			
										[==>(Pattern 4)]		[2]	



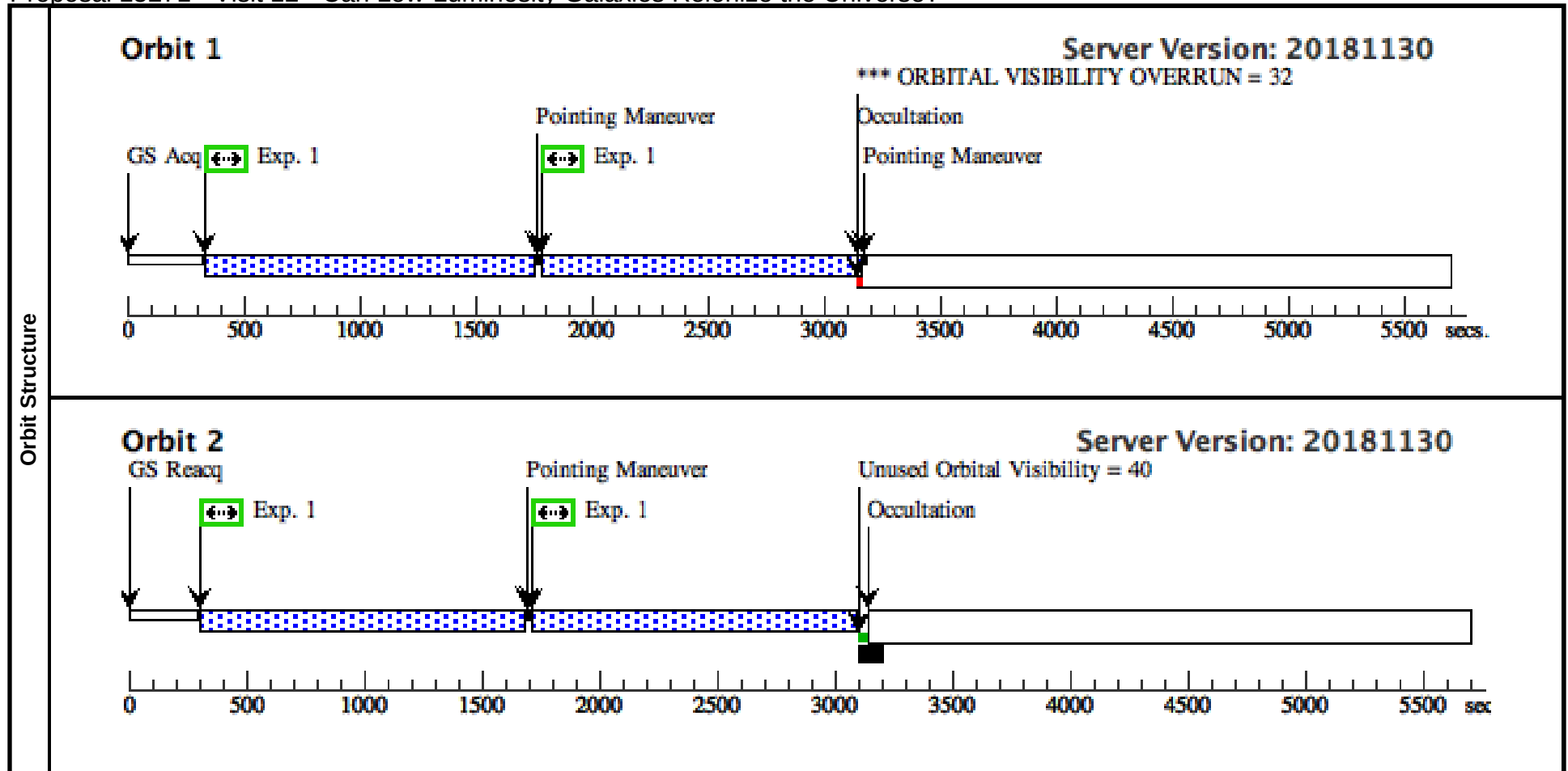
Proposal 15271 - Repeat of visit 11 (61) - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Repeat of visit 11 (61)										Wed Mar 06 15:00:44 GMT 2019				
	Diagnostic Status: Warning														
	Scientific Instruments: ACS/SBC														
	Special Requirements: (none)														
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.															
Diagnostics	(Repeat of visit 11 (61)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN														
Patterns	#	Primary Pattern					Secondary Pattern					Exposures			
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.02 Purpose=DITHER Angle Between Sides=63.65 Number Of Points=4 Center Pattern=true Point Spacing=0.179 Line Spacing=0.116										(1)			
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections			Fluxes			Miscellaneous			
	(7)	M0329-2556		RA: 03 29 43.0570 (52.4294042d) Dec: -02 11 38.53 (-2.19404d) Equinox: J2000					V=23.1+/-1.0 F390W_AB=23.0			Reference Frame: ICRS			
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]														
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups		Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(ACS.im.10 13525)	(7) M0329-2556	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Repeat of visit 11 (61) (1)		1350 Secs (5400 Secs)				
											[==>(Pattern 1)]		[1]		
											[==>(Pattern 2)]				
										[==>(Pattern 3)]		[2]			
										[==>(Pattern 4)]					



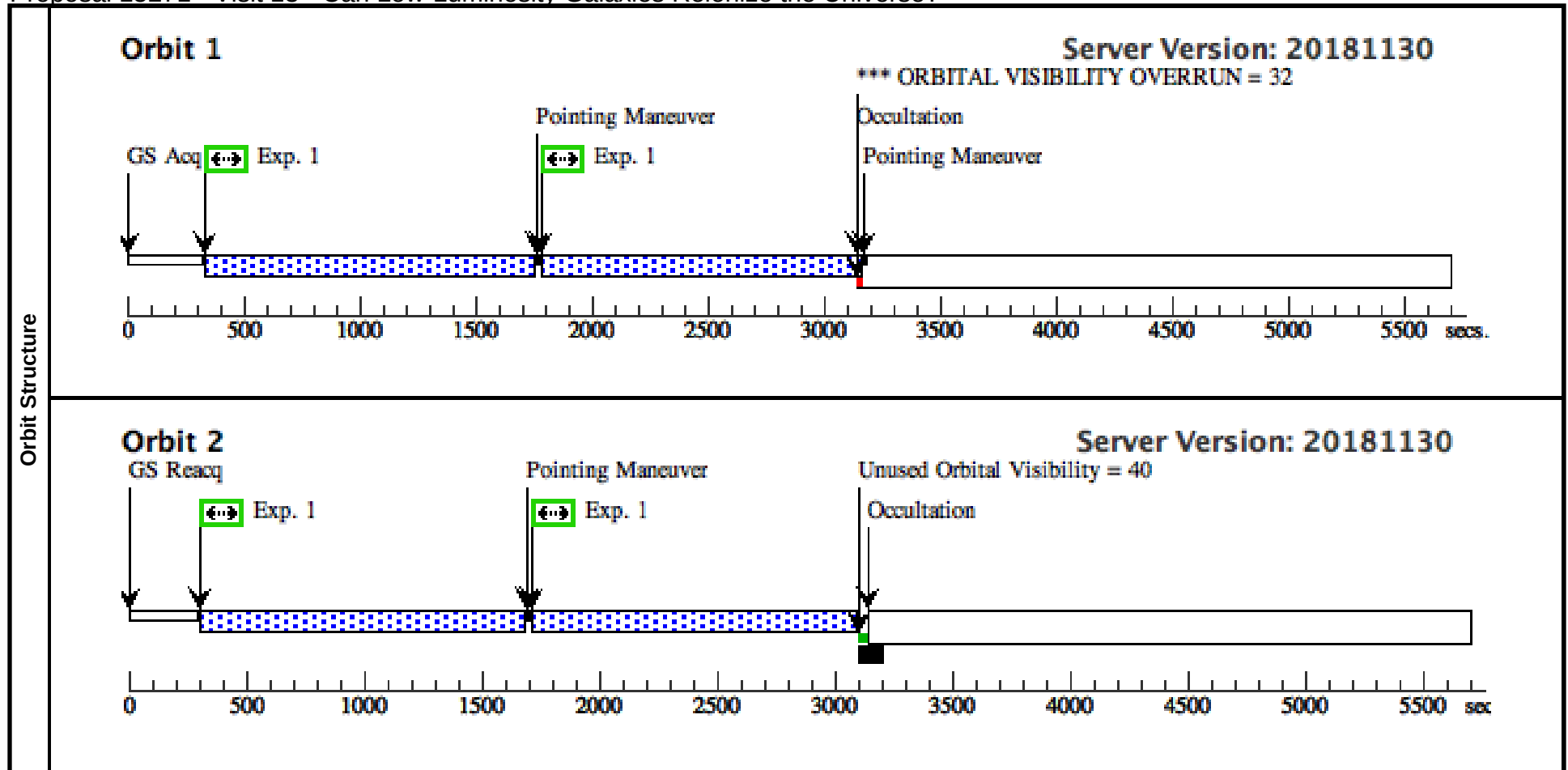
Proposal 15271 - Visit 12 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 12, scheduling										Wed Mar 06 15:00:44 GMT 2019		
	Diagnostic Status: Warning												
	Scientific Instruments: ACS/SBC												
	Special Requirements: (none)												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Diagnostics	(Visit 12) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.02 Purpose=DITHER Angle Between Sides=63.65 Number Of Points=4 Center Pattern=true Point Spacing=0.179 Line Spacing=0.116										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(8)	M1115-2511		RA: 11 15 49.4081 (168.9558671d) Dec: +01 29 52.74 (1.49798d) Equinox: J2000				V=23.7+/-1.0 F390W_AB = 23.74		Reference Frame: ICRS			
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(ACS.im.10 13528)	(8) M1115-2511	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Visit 12 (1)	1350 Secs (5400 Secs)			
										[==>(Pattern 1)]		[1]	
										[==>(Pattern 2)]			
										[==>(Pattern 3)]			
										[==>(Pattern 4)]		[2]	



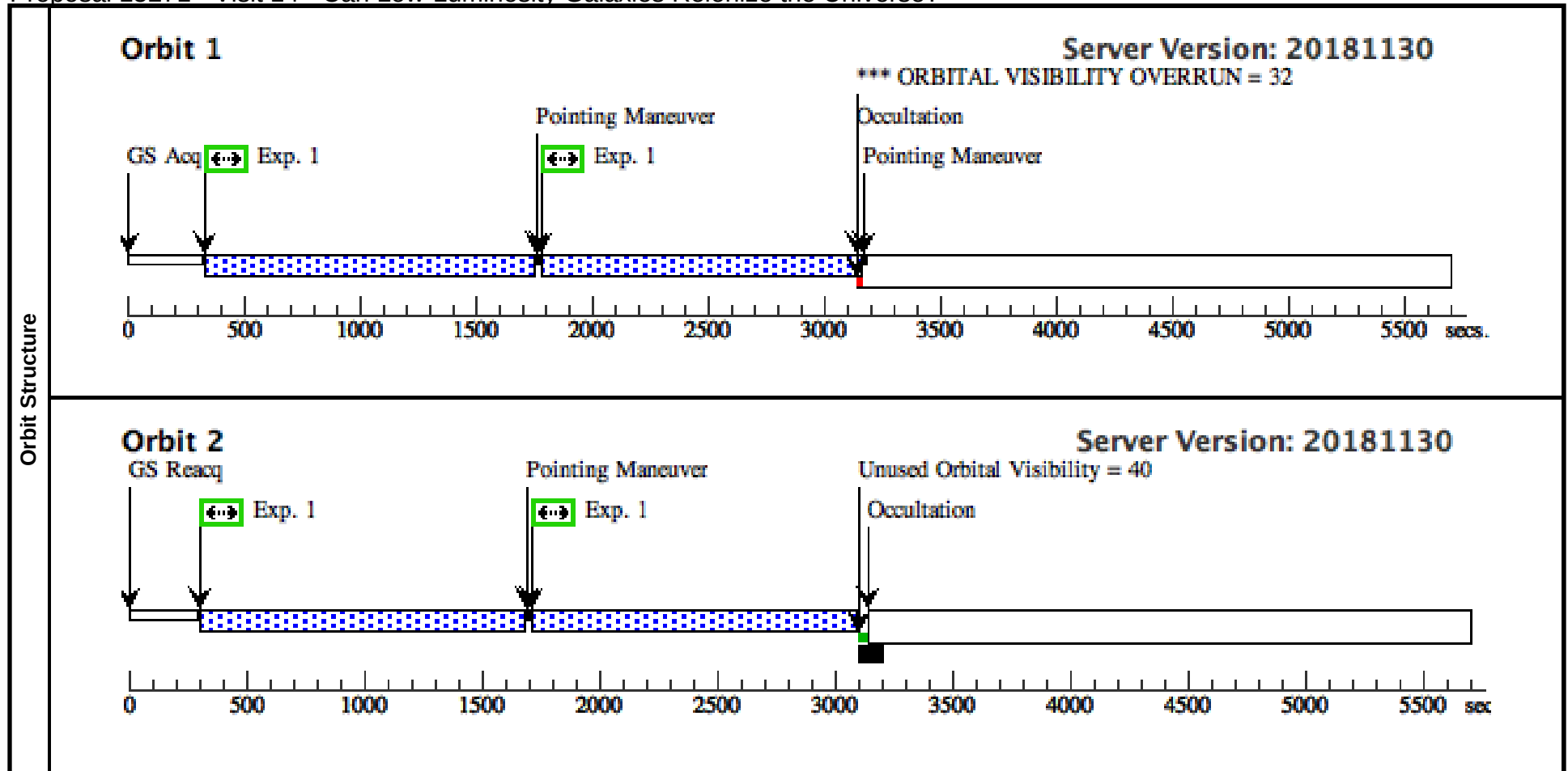
Proposal 15271 - Visit 13 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 13, scheduling										Wed Mar 06 15:00:44 GMT 2019		
	Diagnostic Status: Warning												
	Scientific Instruments: ACS/SBC												
	Special Requirements: (none)												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Diagnostics	(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.02 Purpose=DITHER Angle Between Sides=63.65 Number Of Points=4 Center Pattern=true Point Spacing=0.179 Line Spacing=0.116										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(8)	M1115-2511		RA: 11 15 49.4081 (168.9558671d) Dec: +01 29 52.74 (1.49798d) Equinox: J2000				V=23.7+/-1.0 F390W_AB = 23.74		Reference Frame: ICRS			
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(ACS.im.10 13528)	(8) M1115-2511	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Visit 13 (1)	1350 Secs (5400 Secs)			
										[==>(Pattern 1)]			
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										[==>(Pattern 3)]			
										[==>(Pattern 4)]		[2]	



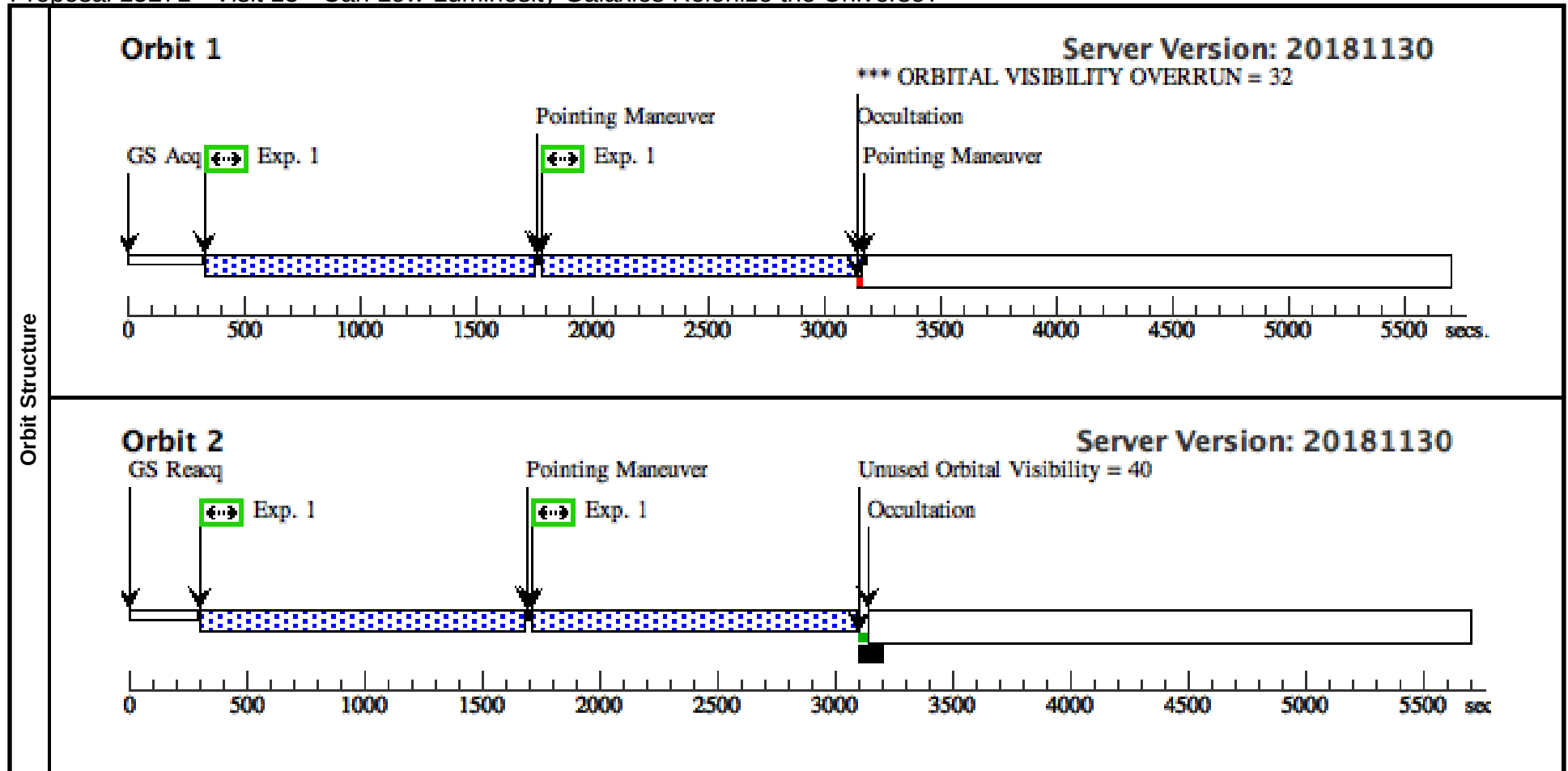
Proposal 15271 - Visit 14 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 14, scheduling										Wed Mar 06 15:00:44 GMT 2019		
	Diagnostic Status: Warning												
	Scientific Instruments: ACS/SBC												
	Special Requirements: (none)												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Diagnostics	(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.02 Purpose=DITHER Angle Between Sides=63.65 Number Of Points=4 Center Pattern=true Point Spacing=0.179 Line Spacing=0.116										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(8)	M1115-2511		RA: 11 15 49.4081 (168.9558671d) Dec: +01 29 52.74 (1.49798d) Equinox: J2000				V=23.7+/-1.0 F390W_AB = 23.74		Reference Frame: ICRS			
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(ACS.im.10 13528)	(8) M1115-2511	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Visit 14 (1)	1350 Secs (5400 Secs)			
										[==>(Pattern 1)]		[1]	
										[==>(Pattern 2)]			
										[==>(Pattern 3)]			
										[==>(Pattern 4)]		[2]	



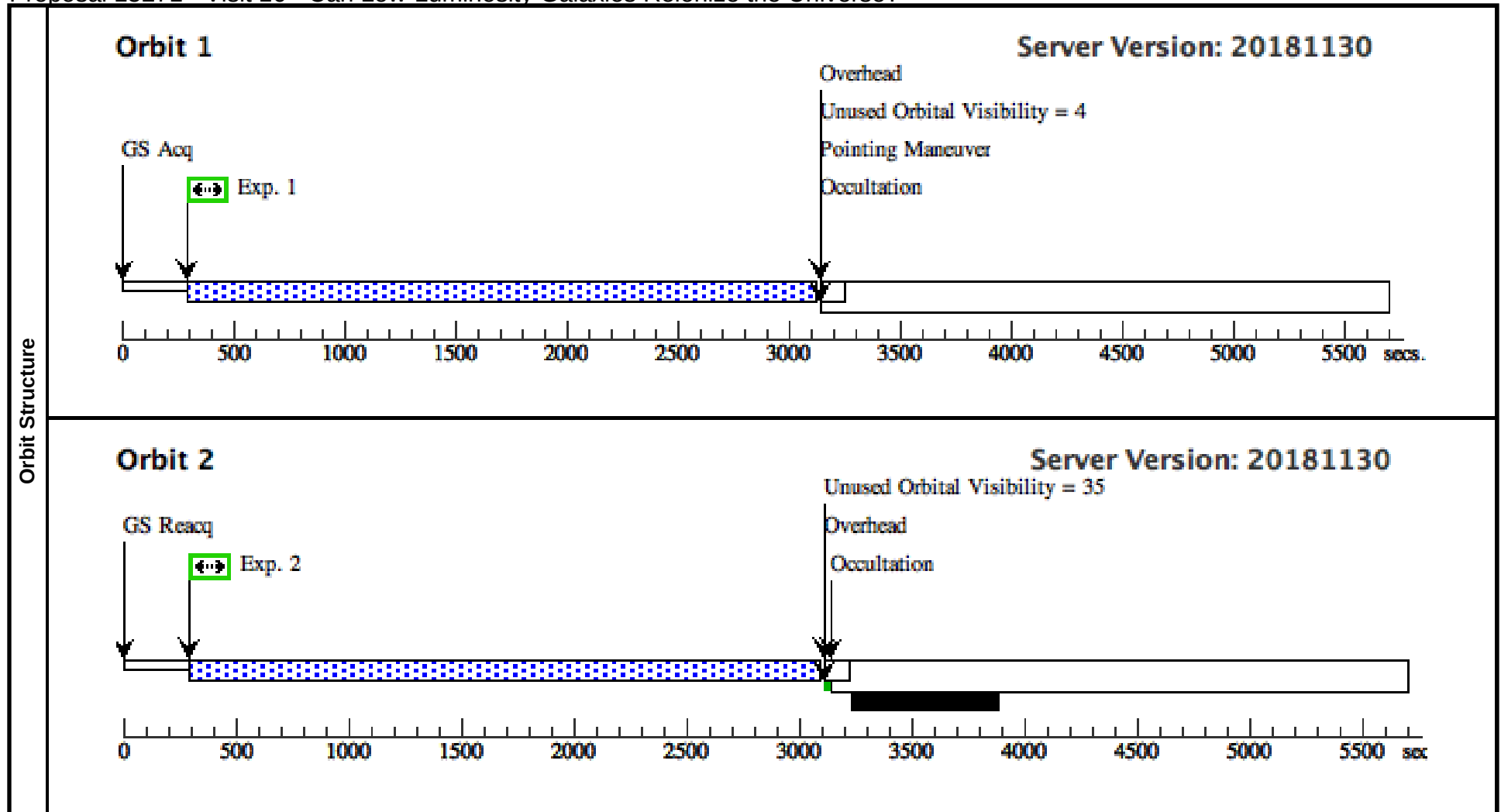
Proposal 15271 - Visit 15 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 15, scheduling										Wed Mar 06 15:00:44 GMT 2019		
	Diagnostic Status: Warning												
	Scientific Instruments: ACS/SBC												
	Special Requirements: (none)												
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.													
Diagnostics	(Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.02 Purpose=DITHER Angle Between Sides=63.65 Number Of Points=4 Center Pattern=true Point Spacing=0.179 Line Spacing=0.116										(1)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(8)	M1115-2511		RA: 11 15 49.4081 (168.9558671d) Dec: +01 29 52.74 (1.49798d) Equinox: J2000				V=23.7+/-1.0 F390W_AB = 23.74		Reference Frame: ICRS			
	Comments:												
	Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(ACS.im.10 13528)	(8) M1115-2511	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Visit 15 (1)	1350 Secs (5400 Secs)			
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										[==>(Pattern 2)]			
										[==>(Pattern 3)]			
										[==>(Pattern 4)]		[2]	



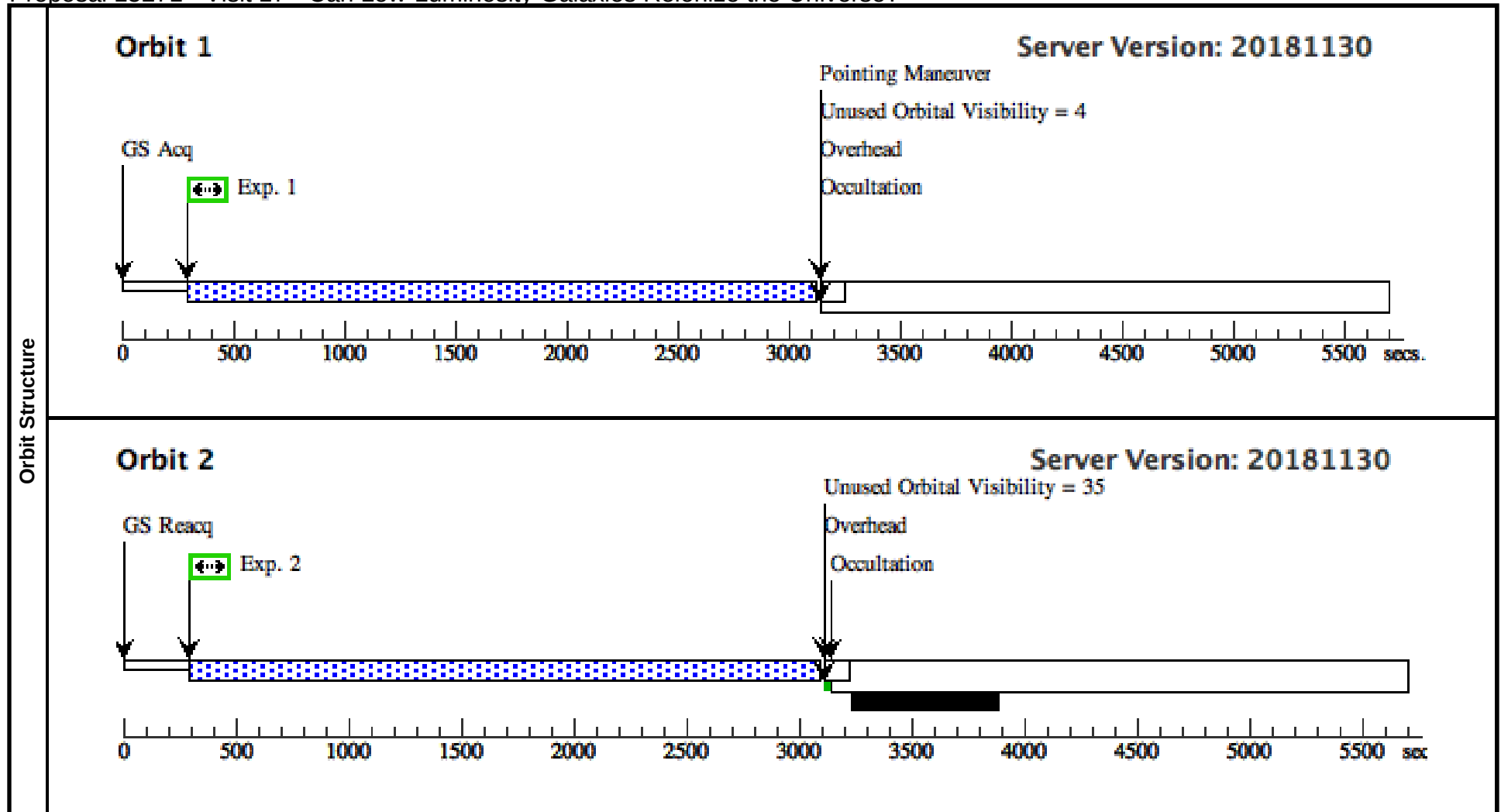
Proposal 15271 - Visit 16 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 16, scheduling										Wed Mar 06 15:00:44 GMT 2019
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: ORIENT 110D TO 170 D										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(9)	M1206-4340	RA: 12 06 14.4480 (181.5602000d) Dec: -08 48 33.90 (-8.80942d) Equinox: J2000				V=24.9+/-1.0 F390W_AB = 25.87		Reference Frame: ICRS		
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(9) M1206-4340	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=4			2800 Secs (2800 Secs)		
									[==>]		[1]
	2		(9) M1206-4340	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=4	POS TARG 0.158,0. 070			2800 Secs (2800 Secs)	
									[==>]		[2]



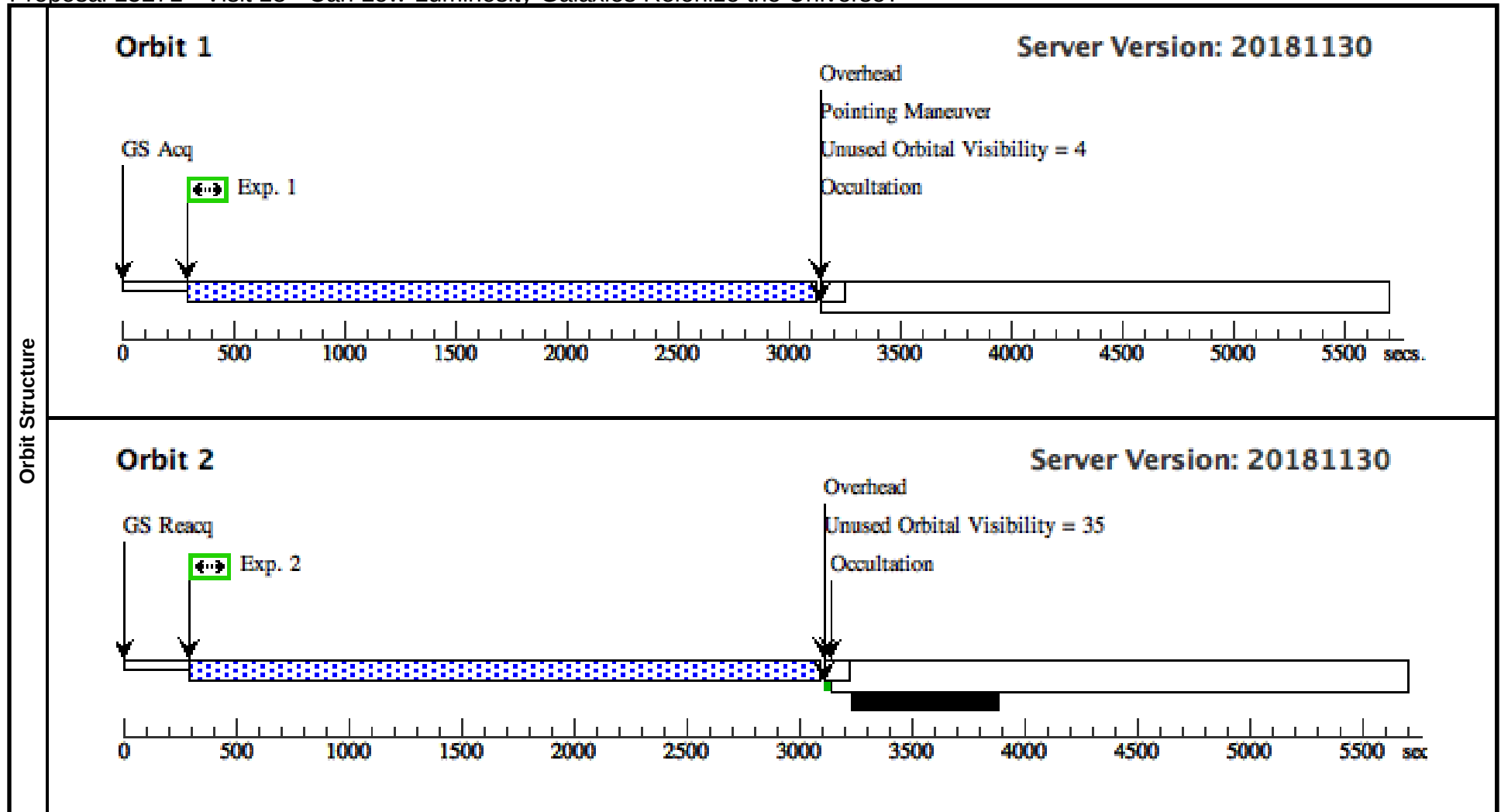
Proposal 15271 - Visit 17 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 17, scheduling										Wed Mar 06 15:00:44 GMT 2019	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: ORIENT 110D TO 170 D											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(9)	M1206-4340	RA: 12 06 14.4480 (181.5602000d)				V=24.9+/-1.0		Reference Frame: ICRS			
			Dec: -08 48 33.90 (-8.80942d)				F390W_AB = 25.87					
			Equinox: J2000									
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(9) M1206-4340	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=4	POS TARG 0.099,0. 165		2800 Secs (2800 Secs)			
									[==>]		[1]	
	2		(9) M1206-4340	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=4	POS TARG -0.060,0 .095		2800 Secs (2800 Secs)			
									[==>]		[2]	



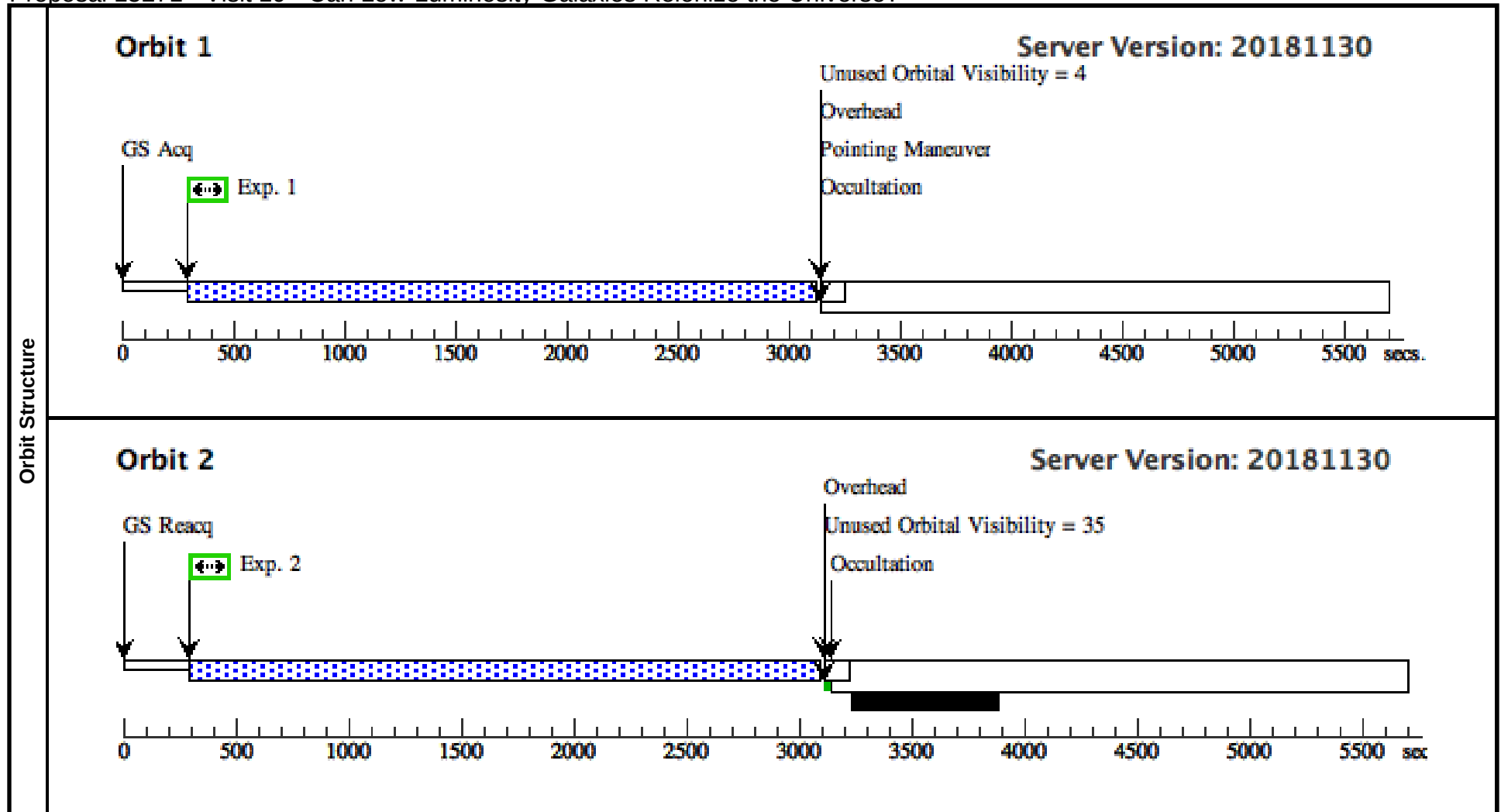
Proposal 15271 - Visit 18 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 18, scheduling										Wed Mar 06 15:00:44 GMT 2019
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: ORIENT 110D TO 170 D										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(9)	M1206-4340	RA: 12 06 14.4480 (181.5602000d)				V=24.9+/-1.0		Reference Frame: ICRS		
			Dec: -08 48 33.90 (-8.80942d)				F390W_AB = 25.87				
			Equinox: J2000								
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(9) M1206-4340	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=4			2800 Secs (2800 Secs)		
									[==>]		[1]
	2		(9) M1206-4340	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=4	POS TARG 0.158,0. 070		2800 Secs (2800 Secs)		
									[==>]		[2]



Proposal 15271 - Visit 19 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 19, completed										Wed Mar 06 15:00:44 GMT 2019	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: ORIENT 110D TO 170 D											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(9)	M1206-4340	RA: 12 06 14.4480 (181.5602000d) Dec: -08 48 33.90 (-8.80942d) Equinox: J2000				V=24.9+/-1.0 F390W_AB = 25.87		Reference Frame: ICRS			
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1		(9) M1206-4340	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=4	POS TARG 0.099,0. 165		2800 Secs (2800 Secs)			
									[==>]		[1]	
	2		(9) M1206-4340	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F336W	FLASH=4	POS TARG -0.060,0 .095		2800 Secs (2800 Secs)			
									[==>]		[2]	



Proposal 15271 - Visit 20 - Can Low-Luminosity Galaxies Reionize the Universe?

Visit	Proposal 15271, Visit 20, completed										Wed Mar 06 15:00:44 GMT 2019			
	Diagnostic Status: Warning													
	Scientific Instruments: ACS/SBC													
	Special Requirements: ORIENT 278D TO 151 D													
Comments: These observations will benefit tremendously from the lowest possible dark current. We would therefore request that these not be scheduled directly after another program so that the SBC HV has been off for a while.														
Diagnostics	(Visit 20) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Patterns	#	Primary Pattern						Secondary Pattern				Exposures		
	(1)	Pattern Type=ACS-SBC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.179 Line Spacing=0.116				Coordinate Frame=POS-TARG Pattern Orientation=20.02 Angle Between Sides=63.65 Center Pattern=true						(1)		
	(2)	Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.472 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false						(2)		
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(10)	DSSJ1439+1208-A		RA: 14 39 10.0985 (219.7920771d) Dec: +12 08 13.02 (12.13695d) Equinox: J2000				V=23.4+/-1.0 F390W_AB =23.43		Reference Frame: ICRS				
	Comments: Category=CLUSTER OF GALAXIES Description=[GRAVITATIONAL LENS]													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(ACS.im.10 13542)	(10) DSSJ1439+1208-A	ACS/SBC, ACCUM, SBC		F150LP			Pattern 1, Exps 1-1 in Visit 20 (1)	1350 Secs (5400 Secs)				
										[==>(Pattern 1)]		[1]		
										[==>(Pattern 2)]				
										[==>(Pattern 3)]		[2]		
										[==>(Pattern 4)]				
	2	(ACS.im.10 13542)	(10) DSSJ1439+1208-A	ACS/SBC, ACCUM, SBC		F150LP			Pattern 2, Exps 2-2 in Visit 20 (2)	1350 Secs (2700 Secs)				
										[==>(Pattern 1)]		[3]		
										[==>(Pattern 2)]				

