



14913 - WFC3 imaging of galaxy pair NGC 4298 and NGC 4302

Cycle: 24, Proposal Category: GO/DD

(Availability Mode: AVAILABLE)

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	(17) NGC-4302-IR	WFC3/IR	1	27-Dec-2016 21:00:13.0	yes
15	(17) NGC-4302-IR	WFC3/IR	1	27-Dec-2016 21:00:15.0	yes
11	(16) NGC-4302-UVIS ANY	ACS/WFC WFC3/UVIS	3	27-Dec-2016 21:00:16.0	yes
12	(16) NGC-4302-UVIS ANY	ACS/WFC WFC3/UVIS	3	27-Dec-2016 21:00:18.0	yes
13	(16) NGC-4302-UVIS ANY	ACS/WFC WFC3/UVIS	3	27-Dec-2016 21:00:20.0	yes
14	(16) NGC-4302-UVIS ANY	ACS/WFC WFC3/UVIS	3	27-Dec-2016 21:00:21.0	yes

14 Total Orbits Used

ABSTRACT

NGC 4298 is a face-on spiral galaxy and NGC 4302 is an edge-on galaxy. They are a close galaxy pair in the Virgo Cluster which may be lightly interacting. We will perform optical imaging with WFC3/UVIS in a 2x2 mosaic, plus ACS parallel exposures. We will perform infrared imaging with WFC3/IR in a 2x3 mosaic. Our IR mosaic will be executed with maximum efficiency using the drift-and-shift (DASH) gyro-mode pointing strategy.

OBSERVING DESCRIPTION

For the optical imaging we will execute a 2x2 mosaic with WFC3/UVIS in three broadband filters (g, V, and r). We will also obtain broad V imaging of the parallel ACS field. For the infrared imaging we will execute a 2x3 mosaic with WFC3/IR in two filters (J and H). For maximum efficiency we will utilize the gyro-mode pointing strategy known as DASH (and no ACS parallel exposures, due to buffer limitations). The following is adapted from the WFC3 STAN article issued 23 June 2016 by Ivelina Momcheva, Pieter van Dokkum, Gabriel Brammer, and John MacKenty:

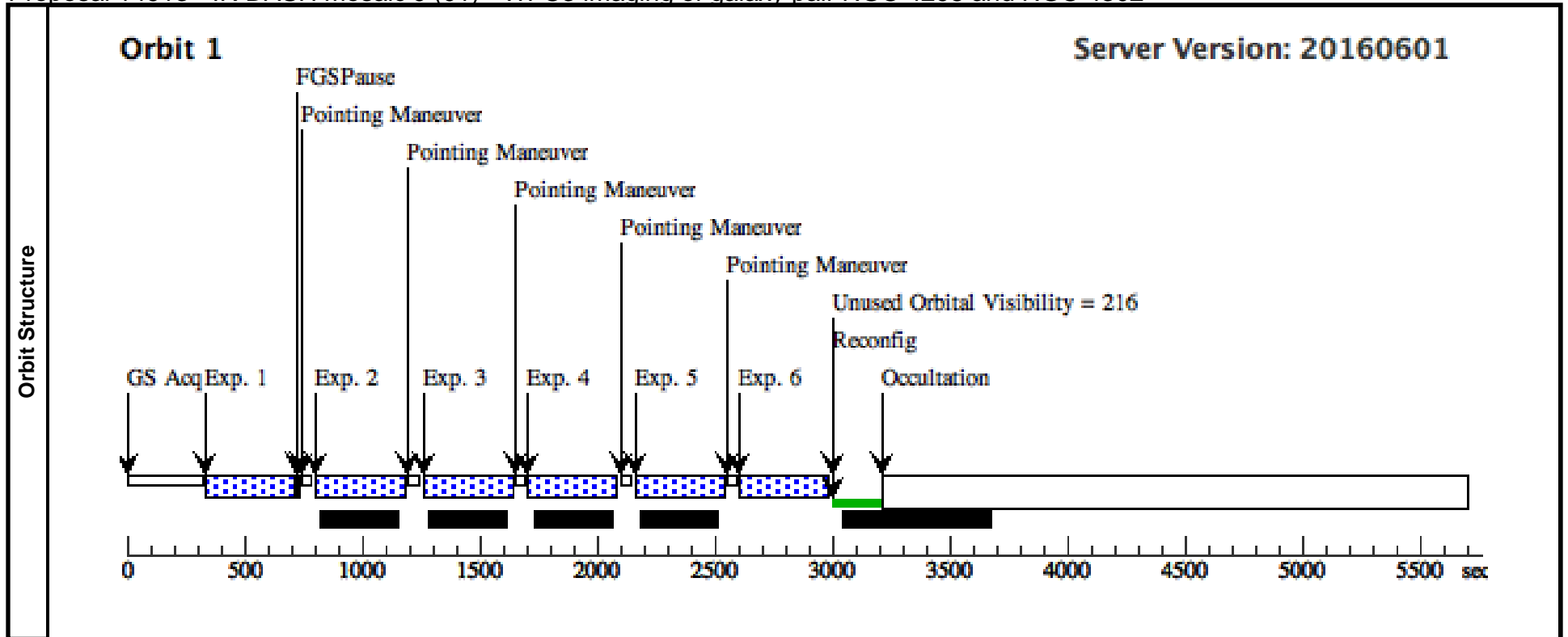
The drift-and-shift (DASH) method of observations, introduced in Cycle 24 (Momcheva et al. 2016), allows users to carry out wide-shallow observations with the WFC3/IR camera on the Hubble Space Telescope (HST) by guiding on gyros alone. The DASH observing strategy must balance between the amount of data that can be stored in memory during the exposure, the drift rate, and the sampling frequency. It also depends on the target position in the sky, as that determines the orbital visibility period. We selected a read-out mode that matched the drift rate. With SPARS25 mode (25-second reads), the drift is only about one quarter of a WFC3/IR pixel between consecutive non-destructive reads. The maximum number of pointings that fit within an orbit with this readout mode is eight, four with NSAMP=11 and four with NSAMP=12, with total exposure times of 253 and 278 seconds, respectively. No modifications to APT are needed to plan these observations. To implement DASH observations in APT, on the Proposal Information page, select the Program Coordinator Use Only box. This option allows users to manually specify the Pointing Control System (PCS) mode. Each tile of the mosaic is defined as an exposure within a visit. The first target within a visit is a Fixed Target. Subsequent targets can be specified either as Fixed Target or as POS TARG offsets relative to the first target (when the observations are carried out, the telescope will step from one pointing to the next, without returning to the starting position). The two methods of specifying the positions of the exposures are equivalent. The POS TARG warning that the offset is larger than the instrument field of view can be ignored. The guiding mode is set by Exp PCS Mode. This option is in the Form Editor Exposure section Implementation Requirements (only visible if PC Use Only is checked). Set this option to Fine for the first exposure and Gyro for subsequent exposures. The same can be done in the lowest table panel (Exp PCS Mode is the ninth field from the right). A guide-star acquisition is required at the beginning of each orbit. Observers should carefully consider the offset pattern to minimize the length of

moves. Offsets up to 1.0 degree are possible with a small angle maneuver (SAM); however, the repositioning overheads increase with the offset size.

Proposal 14913 - IR DASH mosaic J (01) - WFC3 imaging of galaxy pair NGC 4298 and NGC 4302

Wed Dec 28 02:00:22 GMT 2016

Visit	Proposal 14913, IR DASH mosaic J (01), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 11; BEFORE 06-FEB-2017:00:00:00										
	Diagnostics	(IR DASH mosaic J (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (IR DASH mosaic J (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (IR DASH mosaic J (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (IR DASH mosaic J (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (IR DASH mosaic J (01)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE									
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(17)	NGC-4302-IR	RA: 12 21 43.8795 (185.4328312d) Dec: +14 34 18.33 (14.57176d) Equinox: J2000		V=11.61	Reference Frame: SIMBAD				
		<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=YES									
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(17) NGC-4302-IR	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=15; SAMP-SEQ=SPAR S25	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3	Sequence 1-6 Non-Int in IR DASH mosaic J (01)	352.939501 Secs (352.94 Secs) [==>]	[1]		
	2	(17) NGC-4302-IR	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=15; SAMP-SEQ=SPAR S25	POS TARG 130,0; EXP PCS MODE G YRO	Sequence 1-6 Non-Int in IR DASH mosaic J (01)	352.939501 Secs (352.94 Secs) [==>]	[1]		
	3	(17) NGC-4302-IR	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=15; SAMP-SEQ=SPAR S25	POS TARG 0,224; EXP PCS MODE G YRO	Sequence 1-6 Non-Int in IR DASH mosaic J (01)	352.939501 Secs (352.94 Secs) [==>]	[1]		
	4	(17) NGC-4302-IR	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=15; SAMP-SEQ=SPAR S25	POS TARG 130,224; EXP PCS MODE G YRO	Sequence 1-6 Non-Int in IR DASH mosaic J (01)	352.939501 Secs (352.94 Secs) [==>]	[1]		
	5	(17) NGC-4302-IR	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=15; SAMP-SEQ=SPAR S25	POS TARG 0,112; EXP PCS MODE G YRO	Sequence 1-6 Non-Int in IR DASH mosaic J (01)	352.939501 Secs (352.94 Secs) [==>]	[1]		
	6	(17) NGC-4302-IR	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=15; SAMP-SEQ=SPAR S25	POS TARG 130,112; EXP PCS MODE G YRO	Sequence 1-6 Non-Int in IR DASH mosaic J (01)	352.939501 Secs (352.94 Secs) [==>]	[1]		



Proposal 14913 - IR DASH mosaic H (15) - WFC3 imaging of galaxy pair NGC 4298 and NGC 4302

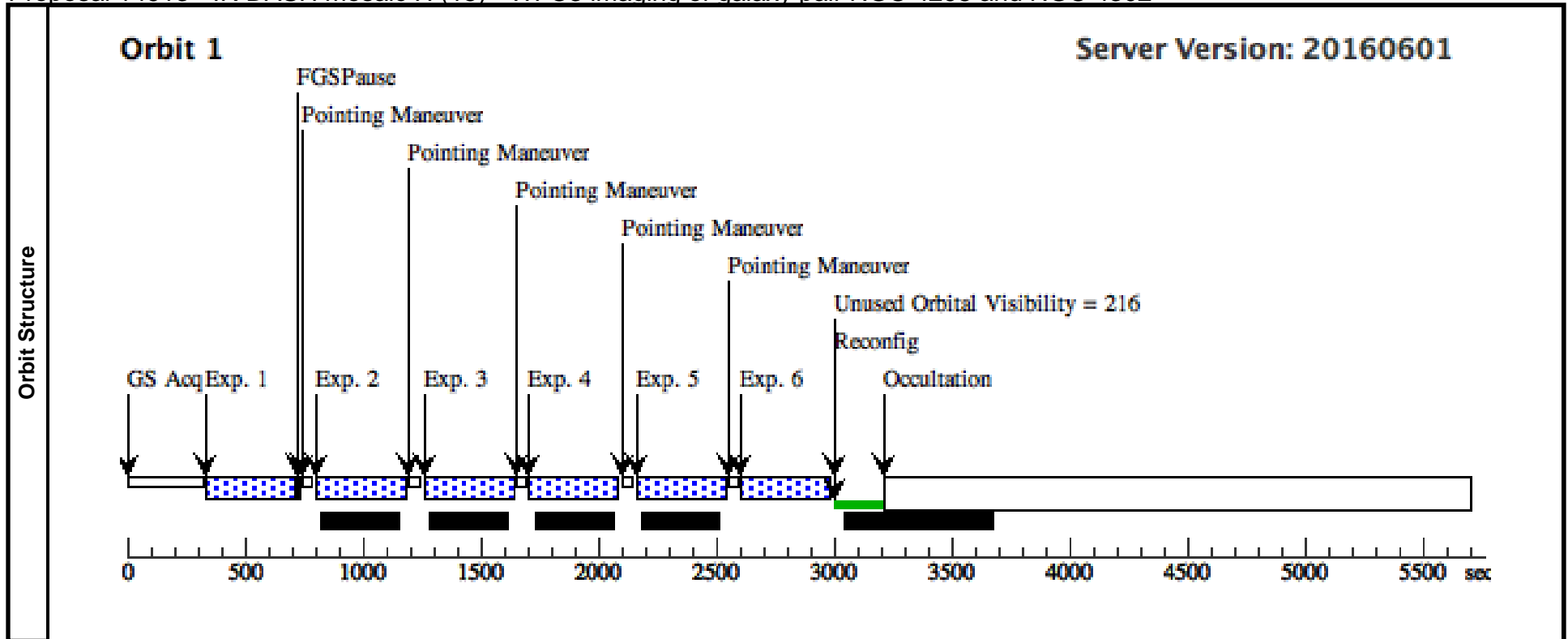
Wed Dec 28 02:00:22 GMT 2016

Visit	Proposal 14913, IR DASH mosaic H (15) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 11; BEFORE 06-FEB-2017:00:00:00

Diagnostics	(IR DASH mosaic H (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
	(IR DASH mosaic H (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
	(IR DASH mosaic H (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
	(IR DASH mosaic H (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
	(IR DASH mosaic H (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

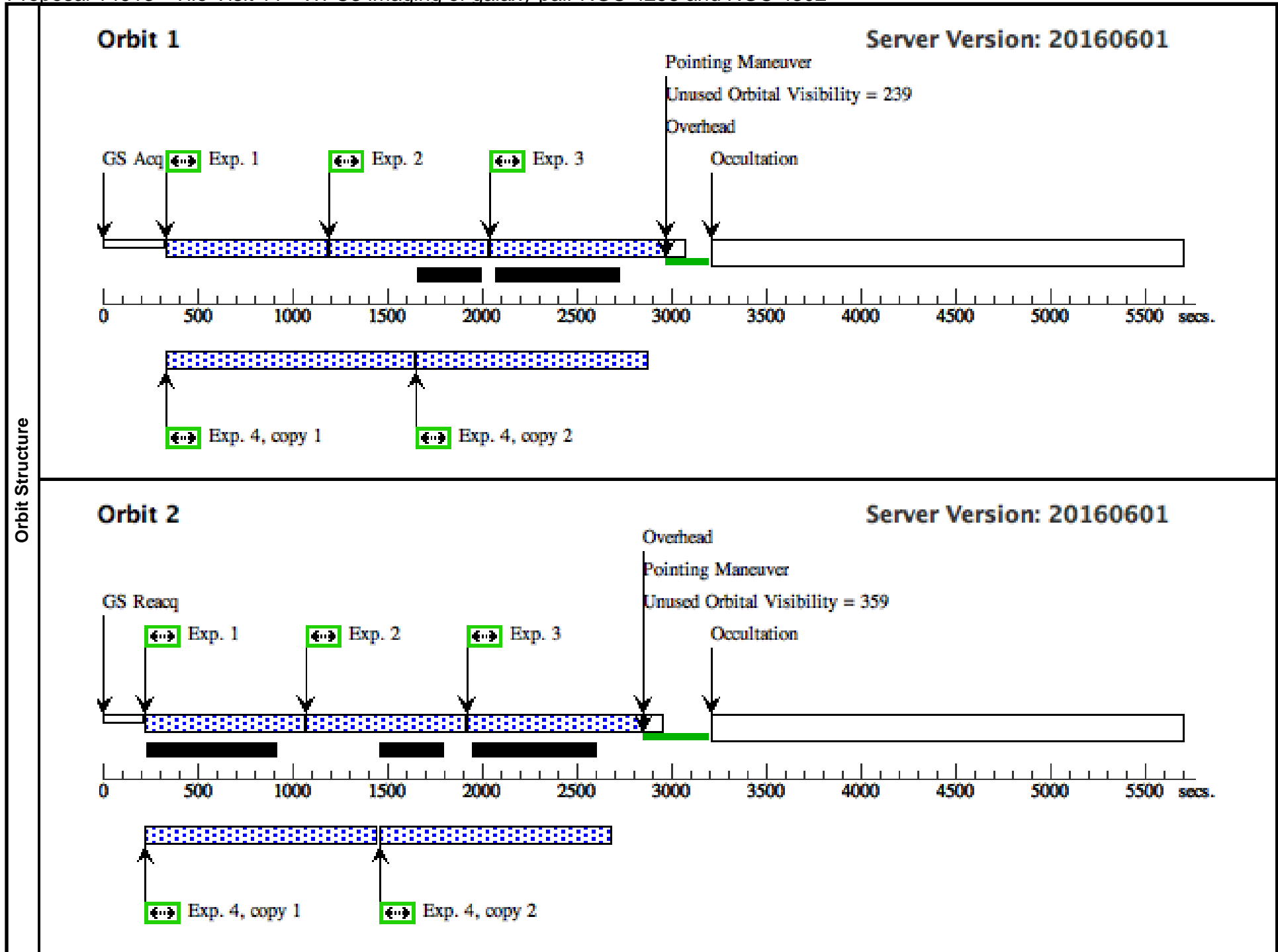
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(17)</td> <td>NGC-4302-IR</td> <td>RA: 12 21 43.8795 (185.4328312d) Dec: +14 34 18.33 (14.57176d) Equinox: J2000</td> <td></td> <td>V=11.61</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(17)	NGC-4302-IR	RA: 12 21 43.8795 (185.4328312d) Dec: +14 34 18.33 (14.57176d) Equinox: J2000		V=11.61	Reference Frame: SIMBAD
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(17)	NGC-4302-IR	RA: 12 21 43.8795 (185.4328312d) Dec: +14 34 18.33 (14.57176d) Equinox: J2000		V=11.61	Reference Frame: SIMBAD								
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Extended=YES													

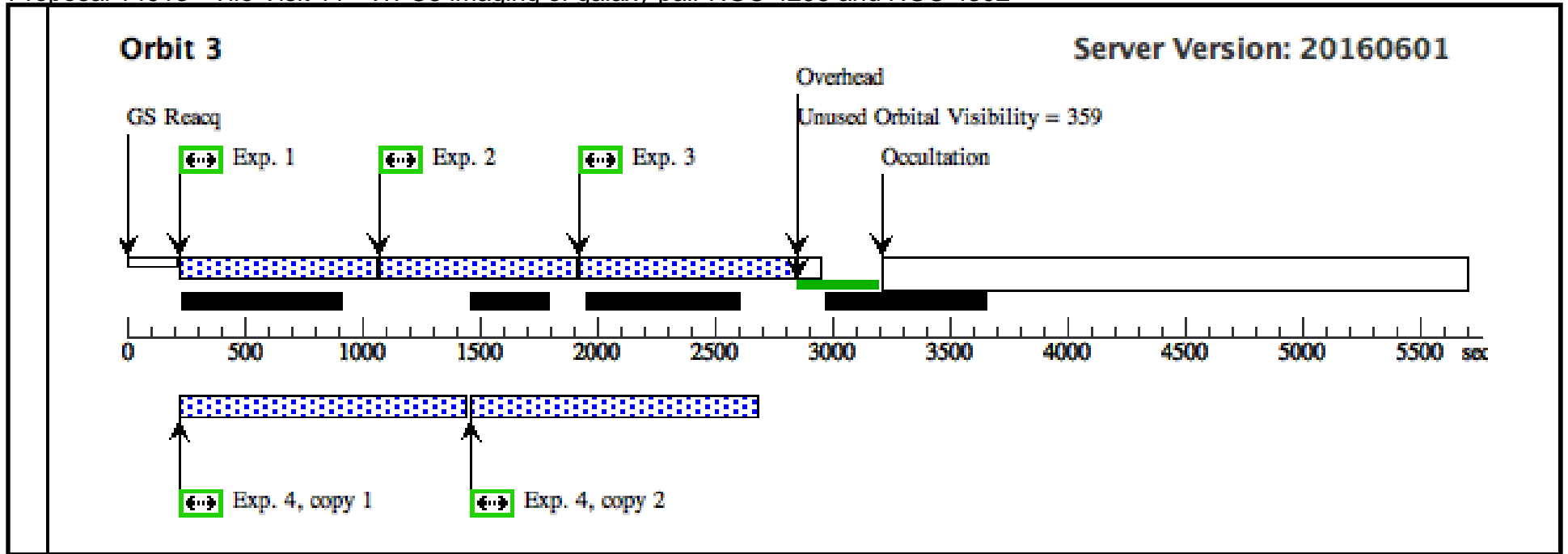
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(17) NGC-4302-IR	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S25	EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3	Sequence 1-6 Non-Int in IR DASH mosaic H (15)	352.939501 Secs (352.94 Secs) [==>]	[1]	
	2	(17) NGC-4302-IR	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S25	POS TARG 130,0; EXP PCS MODE G YRO	Sequence 1-6 Non-Int in IR DASH mosaic H (15)	352.939501 Secs (352.94 Secs) [==>]	[1]	
	3	(17) NGC-4302-IR	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S25	POS TARG 0,224; EXP PCS MODE G YRO	Sequence 1-6 Non-Int in IR DASH mosaic H (15)	352.939501 Secs (352.94 Secs) [==>]	[1]	
	4	(17) NGC-4302-IR	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S25	POS TARG 130,224; EXP PCS MODE G YRO	Sequence 1-6 Non-Int in IR DASH mosaic H (15)	352.939501 Secs (352.94 Secs) [==>]	[1]	
	5	(17) NGC-4302-IR	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S25	POS TARG 0,112; EXP PCS MODE G YRO	Sequence 1-6 Non-Int in IR DASH mosaic H (15)	352.939501 Secs (352.94 Secs) [==>]	[1]	
	6	(17) NGC-4302-IR	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S25	POS TARG 130,112; EXP PCS MODE G YRO	Sequence 1-6 Non-Int in IR DASH mosaic H (15)	352.939501 Secs (352.94 Secs) [==>]	[1]	



Proposal 14913 - Tile Visit 11 - WFC3 imaging of galaxy pair NGC 4298 and NGC 4302

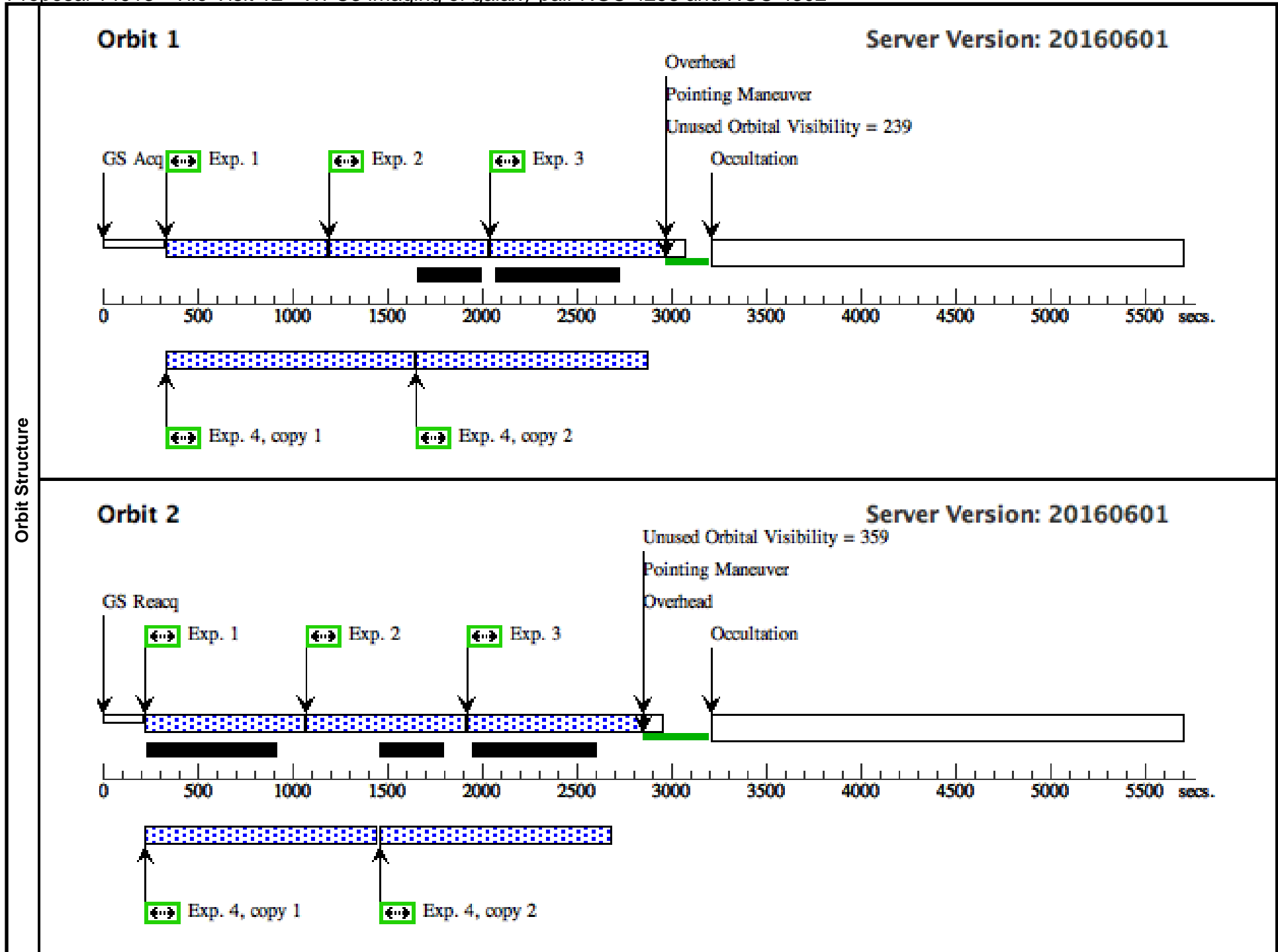
Visit		Proposal 14913, Tile Visit 11, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 303D TO 305 D; BEFORE 06-FEB-2017:00:00:00				Wed Dec 28 02:00:22 GMT 2016				
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(1)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=2.0 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=86 Angle Between Sides= Center Pattern=false			(1-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(16)	NGC-4302-UVIS	RA: 12 21 38.2032 (185.4091800d) Dec: +14 35 45.78 (14.59605d) Equinox: J2000		V=11.61	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Extended=YES</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(16) NGC-4302-UVIS	UVIS-CENTER	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG -73.554 87747622574,-83.74 666808480798; GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-4 in Tile Visit 11 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 11	700 Secs (2100 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1] [2] [3]
	2	(16) NGC-4302-UVIS	UVIS-CENTER	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W		POS TARG -73.554 87747622574,-83.74 666808480798	Pattern 1, Exps 1-4 in Tile Visit 11 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 11	700 Secs (2100 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1] [2] [3]
	3	(16) NGC-4302-UVIS	UVIS-CENTER	WFC3/UVIS, ACCUM, UVIS-CENTER	F475W		POS TARG -73.554 87747622574,-83.74 666808480798	Pattern 1, Exps 1-4 in Tile Visit 11 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 11	900 Secs (2700 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1] [2] [3]
	4	ANY		ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-4 in Tile Visit 11 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 11	1100 Secs X 2 (6600 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)]	[1] [2] [3]

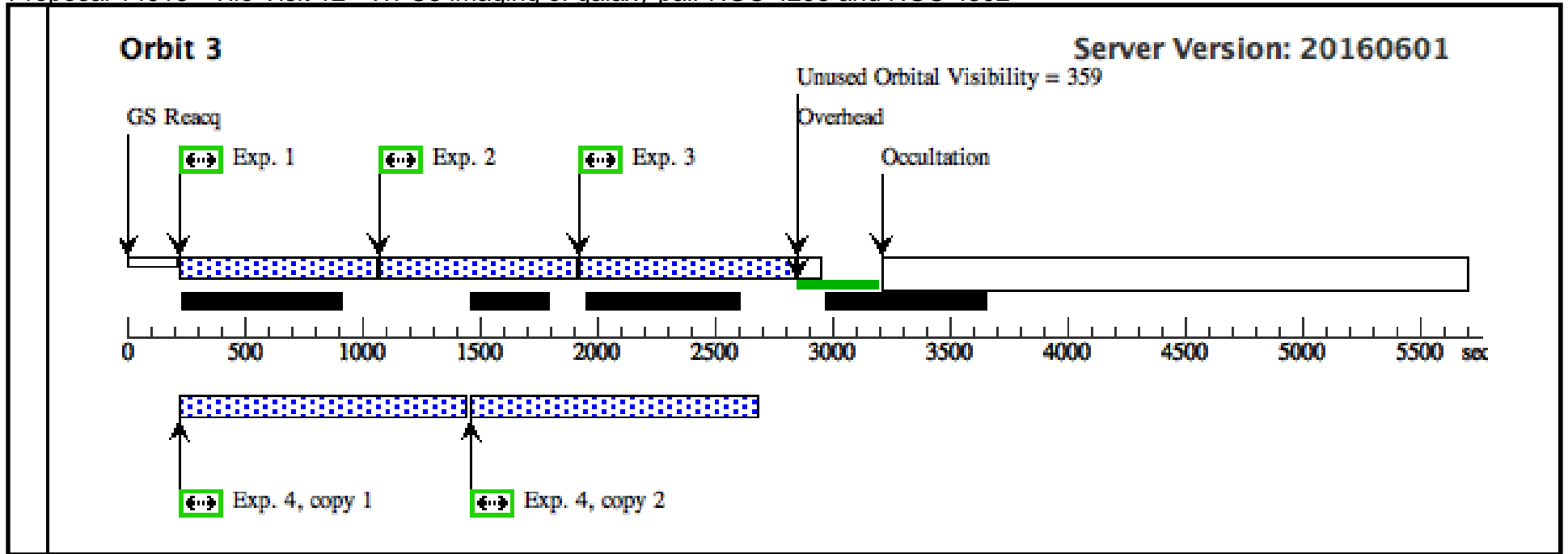




Proposal 14913 - Tile Visit 12 - WFC3 imaging of galaxy pair NGC 4298 and NGC 4302

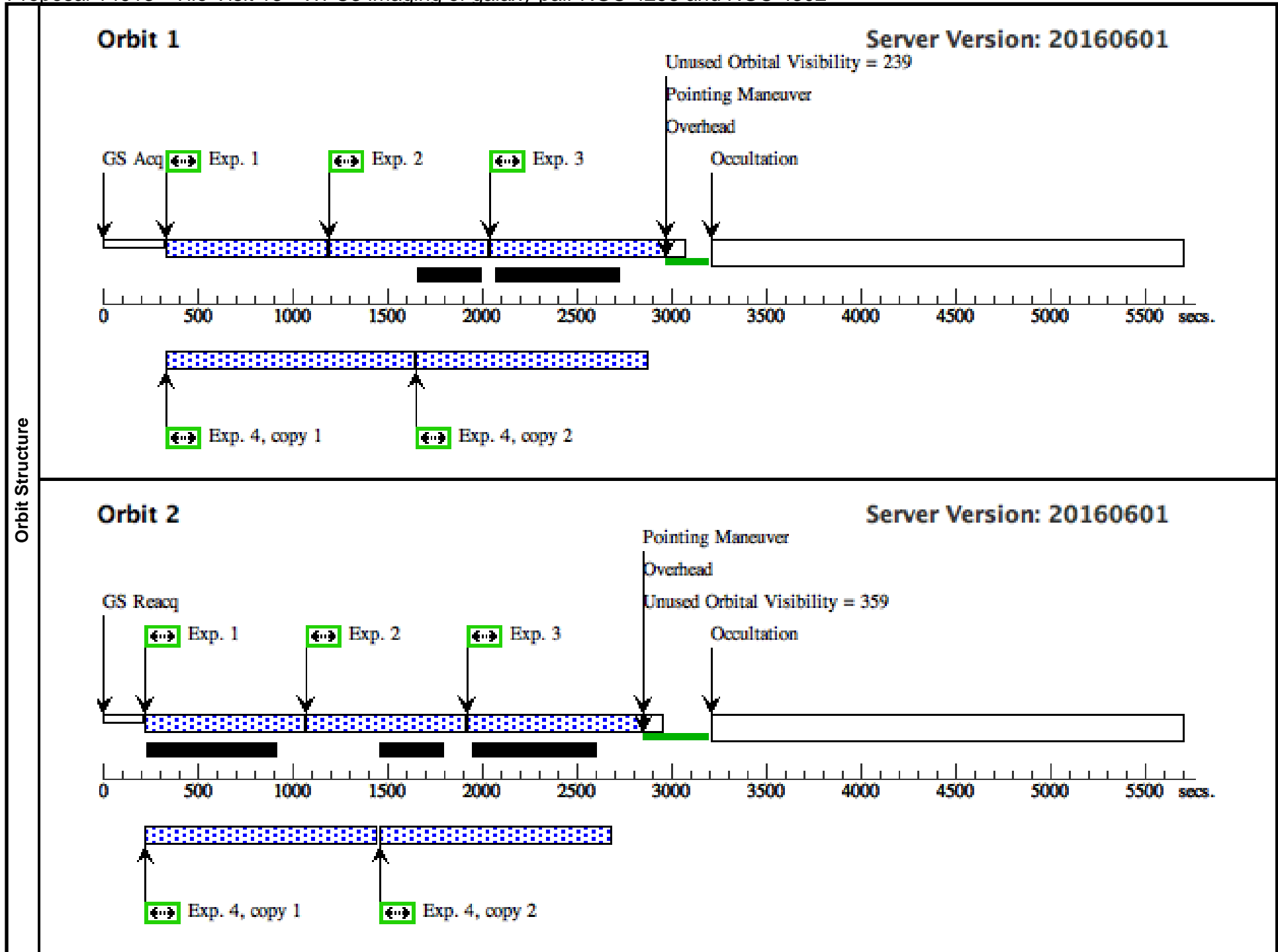
Visit		Proposal 14913, Tile Visit 12, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 11; BEFORE 06-FEB-2017:00:00:00				Wed Dec 28 02:00:22 GMT 2016				
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(1)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=2.0 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=86 Angle Between Sides= Center Pattern=false			(1-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(16)	NGC-4302-UVIS	RA: 12 21 38.2032 (185.4091800d) Dec: +14 35 45.78 (14.59605d) Equinox: J2000		V=11.61	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Extended=YES</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(16) NGC-4302-UVIS	UVIS-CENTER	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG 73.5548 7747622574,-73.459 751915192;	Pattern 1, Exps 1-4 in Tile Visit 12 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 12	700 Secs (2100 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1] [2] [3]
	2	(16) NGC-4302-UVIS	UVIS-CENTER	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W		POS TARG 73.5548 7747622574,-73.459 751915192	Pattern 1, Exps 1-4 in Tile Visit 12 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 12	700 Secs (2100 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1] [2] [3]
	3	(16) NGC-4302-UVIS	UVIS-CENTER	WFC3/UVIS, ACCUM, UVIS-CENTER	F475W		POS TARG 73.5548 7747622574,-73.459 751915192	Pattern 1, Exps 1-4 in Tile Visit 12 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 12	900 Secs (2700 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1] [2] [3]
	4	ANY		ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-4 in Tile Visit 12 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 12	1100 Secs X 2 (6600 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)]	[1] [2] [3]

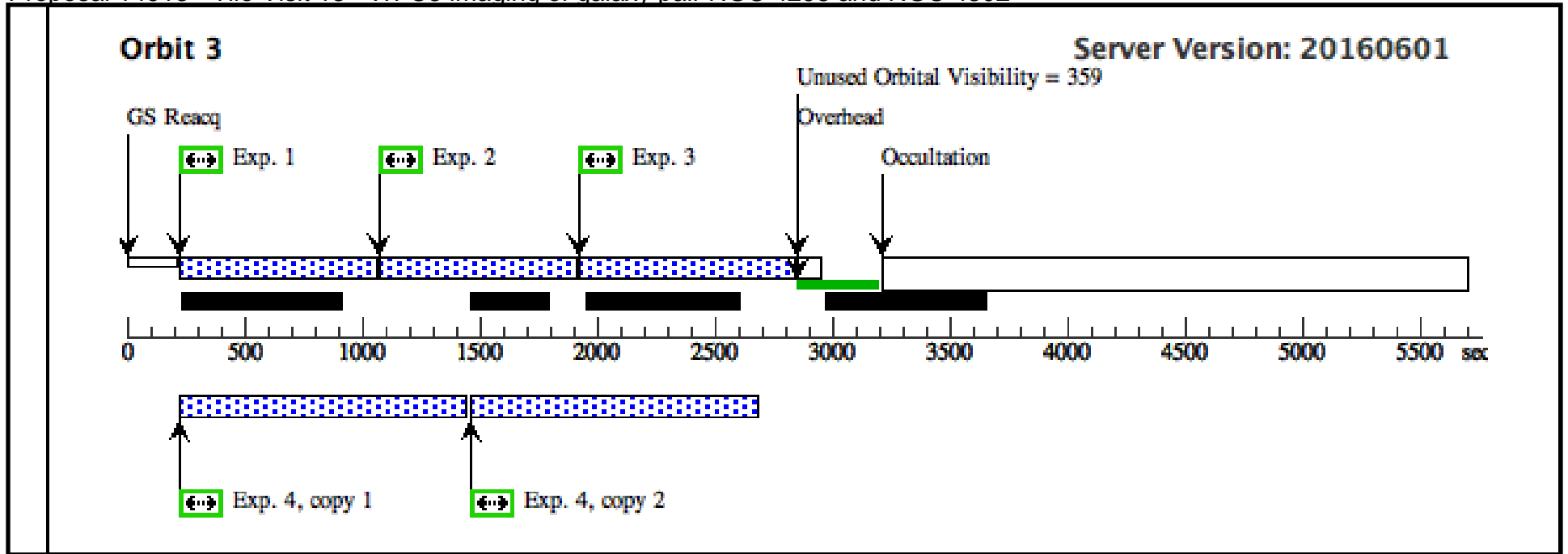




Proposal 14913 - Tile Visit 13 - WFC3 imaging of galaxy pair NGC 4298 and NGC 4302

Visit		Proposal 14913, Tile Visit 13, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 11; BEFORE 06-FEB-2017:00:00:00				Wed Dec 28 02:00:23 GMT 2016				
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(1)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=2.0 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=86 Angle Between Sides= Center Pattern=false			(1-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(16)	NGC-4302-UVIS	RA: 12 21 38.2032 (185.4091800d) Dec: +14 35 45.78 (14.59605d) Equinox: J2000		V=11.61	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(16) NGC-4302-UVIS	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W			POS TARG -73.554 87747622574,73.459 751915192;	Pattern 1, Exps 1-4 in Tile Visit 13 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 13	700 Secs (2100 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1] [2] [3]
	2	(16) NGC-4302-UVIS	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W			POS TARG -73.554 87747622574,73.459 751915192	Pattern 1, Exps 1-4 in Tile Visit 13 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 13	700 Secs (2100 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1] [2] [3]
	3	(16) NGC-4302-UVIS	WFC3/UVIS, ACCUM, UVIS-CENTER	F475W			POS TARG -73.554 87747622574,73.459 751915192	Pattern 1, Exps 1-4 in Tile Visit 13 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 13	900 Secs (2700 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1] [2] [3]
	4	ANY	ACS/WFC, ACCUM, WFCENTER	F606W				Pattern 1, Exps 1-4 in Tile Visit 13 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 13	1100 Secs X 2 (6600 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)]	[1] [2] [3]





Proposal 14913 - Tile Visit 14 - WFC3 imaging of galaxy pair NGC 4298 and NGC 4302

Visit	Proposal 14913, Tile Visit 14, scheduling Wed Dec 28 02:00:23 GMT 2016 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 11; BEFORE 06-FEB-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=LINE Purpose=DITHER Number Of Points=3 Point Spacing=2.0 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=86 Angle Between Sides= Center Pattern=false		(1-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(16)	NGC-4302-UVIS	RA: 12 21 38.2032 (185.4091800d) Dec: +14 35 45.78 (14.59605d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>Extended=YES</i>		V=11.61	Reference Frame: SIMBAD				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(16) NGC-4302-UVIS	S	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG 73.5548 7747622574,83.7466 6808480798;	Pattern 1, Exps 1-4 in Tile Visit 14 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 14	700 Secs (2100 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1] [2] [3]
	2	(16) NGC-4302-UVIS	S	WFC3/UVIS, ACCUM, UVIS-CENTER	F625W		POS TARG 73.5548 7747622574,83.7466 6808480798	Pattern 1, Exps 1-4 in Tile Visit 14 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 14	700 Secs (2100 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1] [2] [3]
	3	(16) NGC-4302-UVIS	S	WFC3/UVIS, ACCUM, UVIS-CENTER	F475W		POS TARG 73.5548 7747622574,83.7466 6808480798	Pattern 1, Exps 1-4 in Tile Visit 14 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 14	900 Secs (2700 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1] [2] [3]
	4	ANY		ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-4 in Tile Visit 14 (1) Prime + Parallel Group 1-4 in Pattern 1, Exps 1-4 in Tile Visit 14	1100 Secs X 2 (6600 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)]	[1] [2] [3]

