



10794 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Cycle: 15, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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VISITS

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:03:33.0	yes
02	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:03:38.0	yes
03	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:03:42.0	yes
04	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:03:45.0	yes
05	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:03:48.0	yes
06	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:03:51.0	yes
07	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:03:55.0	yes
08	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:03:58.0	yes
09	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:04:02.0	yes
10	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:04:06.0	yes

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<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
11	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:04:09.0	yes
12	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:04:12.0	yes
13	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:04:15.0	yes
14	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:04:18.0	yes
15	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:04:22.0	yes
16	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:04:25.0	yes
17	(1) NGC-0147	ACS/WFC	2	15-Aug-2006 21:04:29.0	yes
18	(2) NGC-0185	ACS/WFC	2	15-Aug-2006 21:04:32.0	yes
19	(3) NGC-0185A	ACS/WFC	2	15-Aug-2006 21:04:35.0	yes
20	(3) NGC-0185A	ACS/WFC	2	15-Aug-2006 21:04:38.0	yes
21	(3) NGC-0185A	ACS/WFC	2	15-Aug-2006 21:04:41.0	yes
22	(3) NGC-0185A	ACS/WFC	2	15-Aug-2006 21:04:45.0	yes
23	(3) NGC-0185A	ACS/WFC	2	15-Aug-2006 21:04:48.0	yes
24	(3) NGC-0185A	ACS/WFC	2	15-Aug-2006 21:04:52.0	yes
25	(3) NGC-0185A	ACS/WFC	2	15-Aug-2006 21:04:56.0	yes
26	(3) NGC-0185A	ACS/WFC	2	15-Aug-2006 21:04:59.0	yes
27	(3) NGC-0185A	ACS/WFC	2	15-Aug-2006 21:05:02.0	yes
28	(3) NGC-0185A	ACS/WFC	2	15-Aug-2006 21:05:06.0	yes
29	(3) NGC-0185A	ACS/WFC	2	15-Aug-2006 21:05:11.0	yes
30	(3) NGC-0185A	ACS/WFC	2	15-Aug-2006 21:05:14.0	yes

60 Total Orbits Used

ABSTRACT

Dwarf elliptical (dE) galaxies form some of the most numerous galaxies in the universe, yet their origins remain a mystery. The most popular formation scenarios are that dEs are either ancient, primordial objects, or the recent remnants of disrupted progenitor galaxies. These scenarios predict significantly different ratios of old and intermediate age stars. Stellar population characteristics can therefore discriminate between these scenarios. Previous spectroscopic work based on line strengths has had too many uncertainties to uniquely infer the stellar populations. Resolved color magnitude diagrams are needed instead. Since dE galaxies generally do not have stars younger than 1 Gyr, resolving the main sequence turnoff is required to directly quantify the star formation histories. Only ACS on HST can reach this depth, and it can only do so for the nearest two dE galaxies in the Local Group: the M31 dE satellites NGC 147 and NGC 185. Their main sequence turnoffs are expected to be at an apparent magnitude of $V=29$; we request F606W/F814W imaging one half magnitude fainter than this limit (and more than four magnitudes fainter than the deepest previous dE observations). This will quantify the ratio of old to intermediate-age stars and will allow us to discriminate between the competing models of dE formation. On-going Keck/DEIMOS spectroscopy of several hundred red giant stars in each of these two dE galaxies, coupled with dynamical modeling and spectral synthesis, will complement the ACS measurement by providing information on chemical abundance patterns, dark matter content and internal dynamics. The proposed ACS data will be the first to directly quantify the onset and duration of star formation episodes in any dE galaxy. This measurement can only be done with HST/ACS, and it can only be done for these two galaxies in the dE class. This project will therefore be unique, and will be the most comprehensive study to date of any dE galaxy.

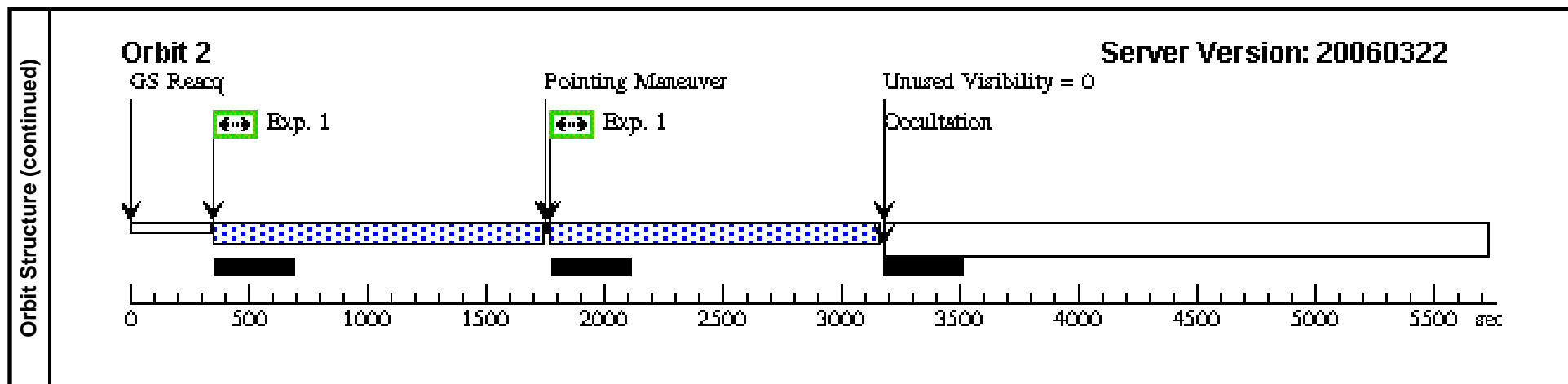
OBSERVING DESCRIPTION

We will obtain a total of 60 orbits of deep ACS/WFC imaging in F606W (V-band) and F814W (I-band) in the Local Group dE galaxies NGC 147 and 185 with the goal of resolving stars below the main sequence turnoff ($V\sim 29.5$). We will obtain a single pointing in each galaxy. The fields are placed ~ 9 arcmin from the galaxy center to achieve an acceptable level of stellar crowding. We do not request a specific orient angle, however all visits for a single galaxy should be

Proposal 10794 - Overview

scheduled at the same orient to to maximize the sky coverage at the required depth. Most visits will consist of 4 exposures spanning 2 orbits in a single filter. Within a visit, each of the 4 exposures will be dithered to obtain good PSF sampling, with larger positional offsets between visits to dither the gap between the chips. In addition, we will obtain 4x30s dithered images in each filter for each galaxy in order to obtain photometry for stars which will be saturated in the deep exposures. None of the exposures in any visit in this program are CR-SPLIT.

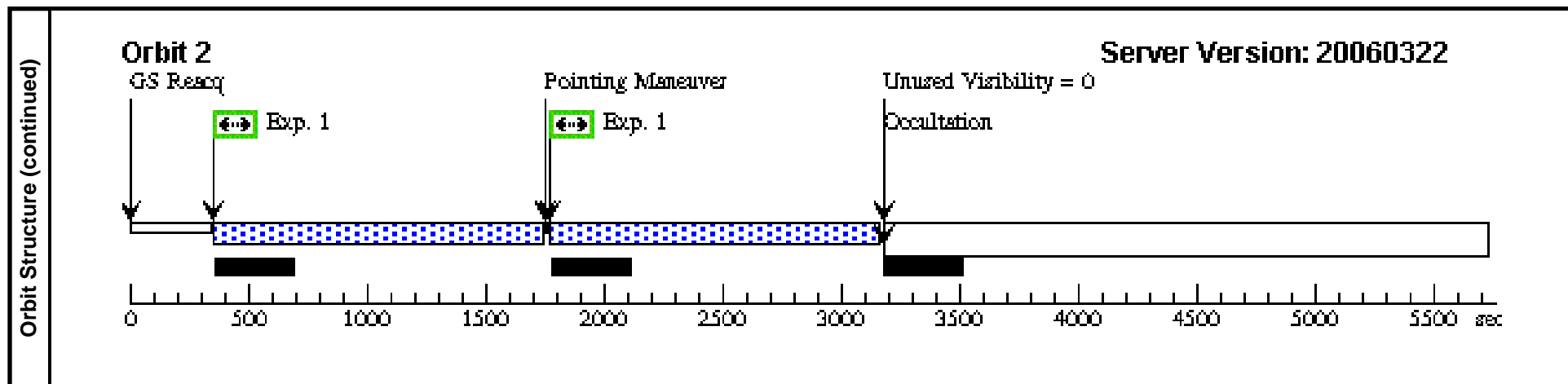
Visit	Proposal 10794, Visit 01 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: BEFORE 01-FEB-2007:00:00:00									
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Fixed Targets	# (1)	Name NGC-0147	Target Coordinates RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000	Targ. Coord. Corrections	Fluxes V=9.5 surf(V) = 26.0	Miscellaneous Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	# 1	Label N147-F606 W-1	Target (1) NGC-0147	Config,Mode,Aperture ACS/WFC, ACCUM, WFC	Spectral Els. F606W	Opt. Params. CR-SPLIT=NO; GAIN=1	Special Reqs.	Groups Pattern 1-1 (2)	Exp. Time/[Actual Dur.] 1200.0 Secs [=>1217.0 Secs (Pattern 1)] [=>1217.0 Secs (Pattern 2)] [=>1268.0 Secs (Pattern 3)] [=>1268.0 Secs (Pattern 4)]	Orbit [1] [2]
Orbit Structure	<div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20060322 </div> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with vertical arrows: GS Acq at ~200s, Exp. 1 (green box) at ~400s, Pointing Maneuver at ~1800s, Exp. 1 (green box) at ~1900s, Pointing Maneuver at ~3200s, Occultation at ~3300s, and Unused Visibility = 0 at ~3400s. A blue checkered bar spans from approximately 400s to 3200s, representing the observation period. A solid black bar is located below the timeline between 1800s and 2100s.</p>									



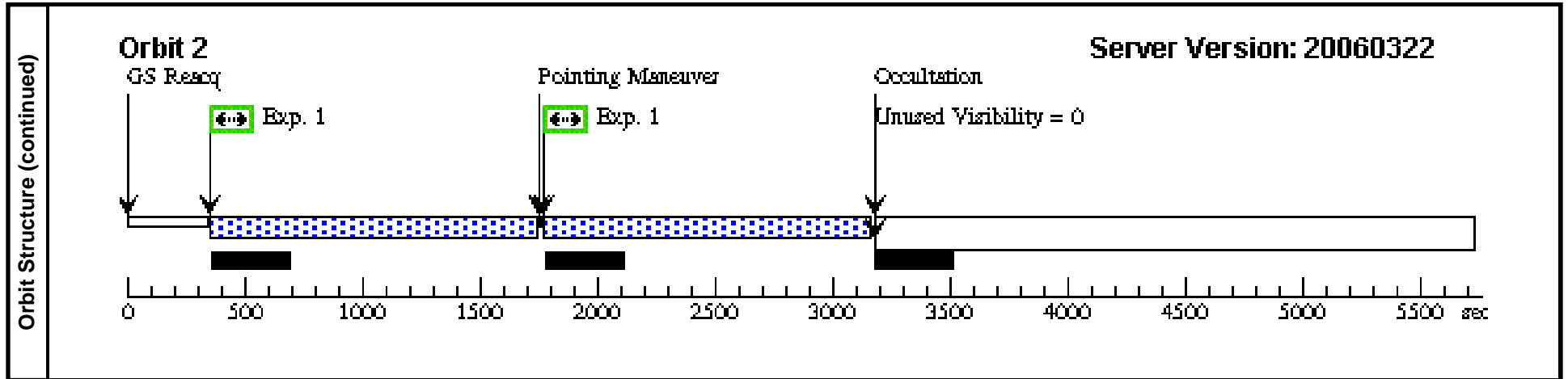
Proposal 10794 - Visit 02 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:17 GMT 2006

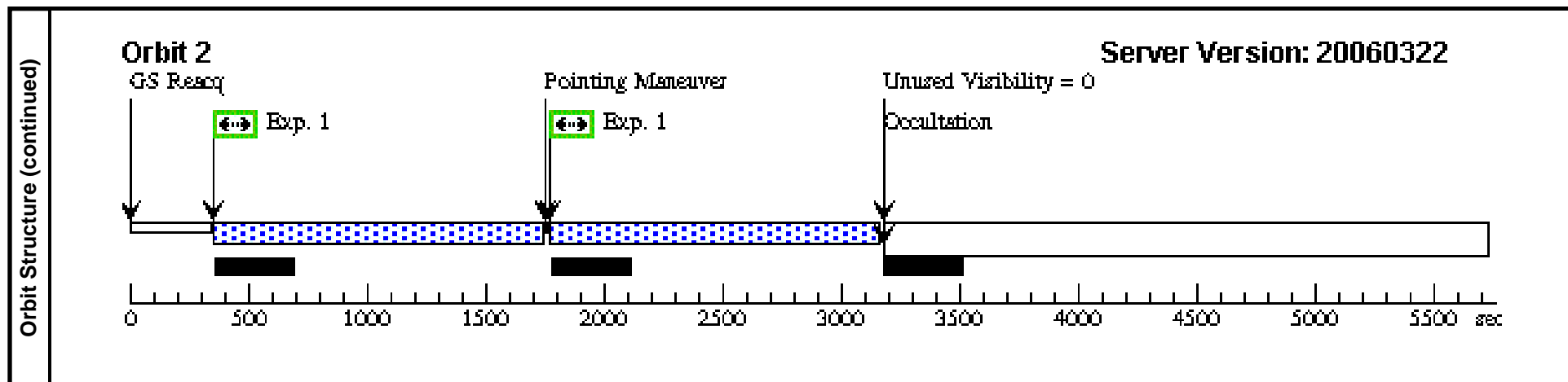
Visit	Proposal 10794, Visit 02 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Patterns	# (2) Primary Pattern Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false	Secondary Pattern	Exposures (1)					
Fixed Targets	# (1)	Name NGC-0147	Target Coordinates RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000	Targ. Coord. Corrections	Fluxes V=9.5 surf(V) = 26.0	Miscellaneous Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	# 1	Label N147-F606 W-2	Target (1) NGC-0147	Config,Mode,Aperture ACS/WFC, ACCUM, WFC	Spectral Els. F606W	Opt. Params. CR-SPLIT=NO; GAIN=1	Special Reqs. POS TARG 0.2393,- 0.0002	Groups Pattern 1-1 (2)	Exp. Time/[Actual Dur.]	Orbit
									1200.0 Secs	
									[==>1217.0 Secs (Pattern 1)]	[1]
									[==>1217.0 Secs (Pattern 2)]	
									[==>1268.0 Secs (Pattern 3)]	[2]
									[==>1268.0 Secs (Pattern 4)]	
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p> <p>The diagram illustrates the orbit structure over a 5500-second period. It shows the timing of various activities: GS Acq (Green Start Acquisition) at approximately 30 seconds, followed by the first exposure (Exp. 1) at 40 seconds. A pointing maneuver occurs at 1800 seconds, followed by a second exposure (Exp. 1) at 1900 seconds. Another pointing maneuver is scheduled at 3200 seconds. From 3200 seconds to the end of the orbit at 5500 seconds, the system is in an occultation state, resulting in zero unused visibility.</p>									



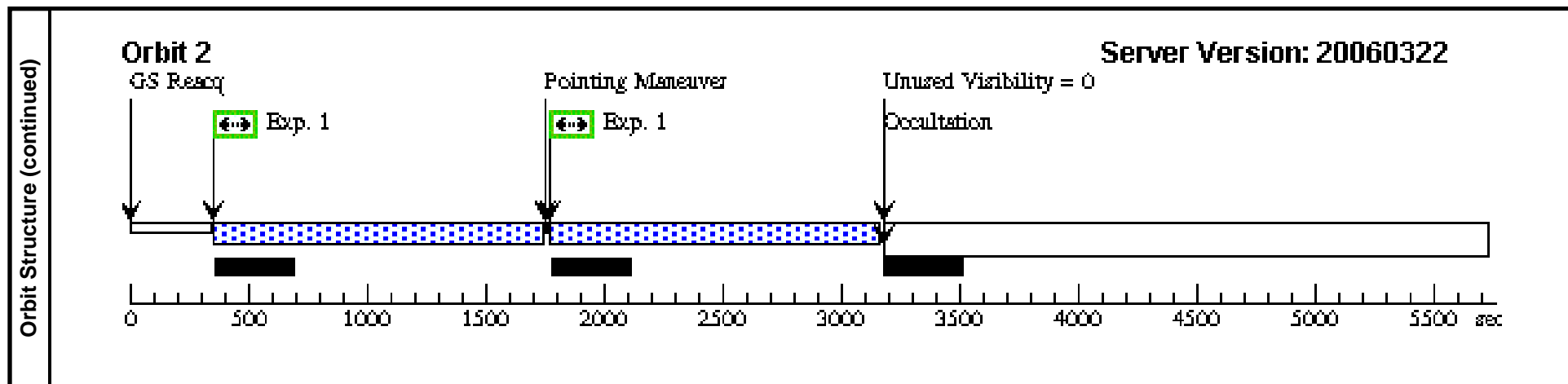
Visit	Proposal 10794, Visit 03 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02									
	Patterns	# (2) Primary Pattern Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false	Secondary Pattern	Exposures (1)					
Fixed Targets	# (1)	Name NGC-0147	Target Coordinates RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000	Targ. Coord. Corrections	Fluxes V=9.5 surf(V) = 26.0	Miscellaneous Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	# 1	Label N147-F606 W-3	Target (1) NGC-0147	Config,Mode,Aperture ACS/WFC, ACCUM, WFC	Spectral Els. F606W	Opt. Params. CR-SPLIT=NO; GAIN=1	Special Reqs. POS TARG -0.0178, 0.2433	Groups Pattern 1-1 (2)	Exp. Time/[Actual Dur.] 1200.0 Secs [==>1217.0 Secs (Pattern 1)] [==>1217.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	Orbit [1] [2]
Orbit Structure	<div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20060322 </div> <p>The diagram illustrates the orbit structure over a 5500-second period. It shows two exposure periods (Exp. 1) and two pointing maneuvers. A significant portion of the orbit (from approximately 3200 to 5500 seconds) is marked as 'Occultation' with 'Unused Visibility = 0'.</p>									



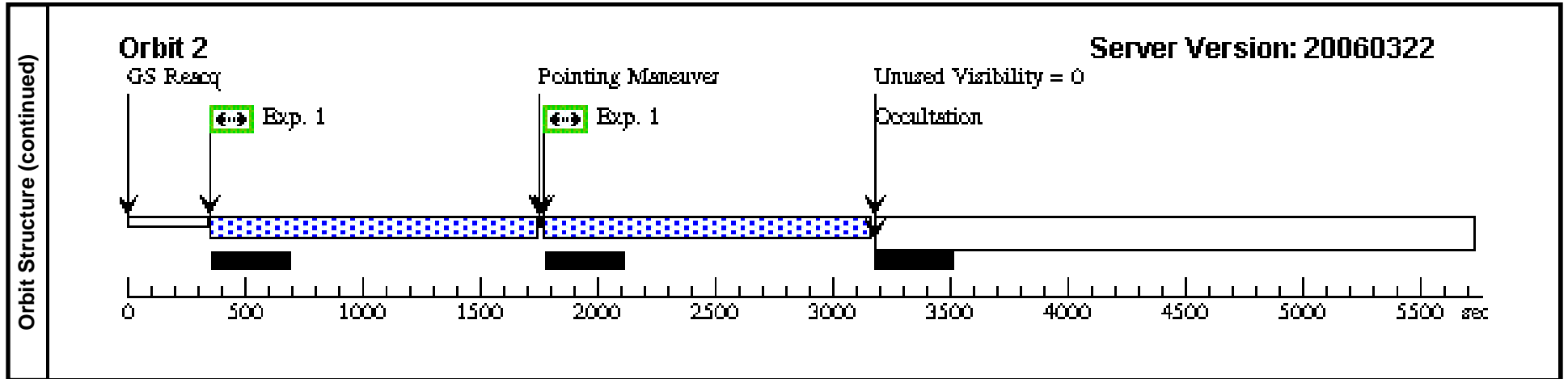
Visit	Proposal 10794, Visit 04 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02									
	Patterns	# (2) Primary Pattern Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false	Secondary Pattern	Exposures (1)					
Fixed Targets	# (1)	Name NGC-0147	Target Coordinates RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000	Targ. Coord. Corrections	Fluxes V=9.5 surf(V) = 26.0	Miscellaneous Reference Frame: NED				
Comments: This object was generated by the targetselector and retrieved from the NED database.										
Exposures	# 1	Label N147-F606 W-4	Target (1) NGC-0147	Config,Mode,Aperture ACS/WFC, ACCUM, WFC	Spectral Els. F606W	Opt. Params. CR-SPLIT=NO; GAIN=1	Special Reqs. POS TARG -0.2512, 0.0061	Groups Pattern 1-1 (2)	Exp. Time/[Actual Dur.] 1200.0 Secs [==>1217.0 Secs (Pattern 1)] [==>1217.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	Orbit [1] [2]
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p> <p>The diagram illustrates the timeline for Orbit 1. It starts at 0 seconds and ends at 5500 seconds. Key events are marked with arrows: GS Acq at approximately 300 seconds, followed by Exp. 1 at 400 seconds. A blue checkered bar indicates the observation period from 400 to 3200 seconds. A Pointing Maneuver occurs at 1800 seconds, followed by another Exp. 1 at 1900 seconds. A second Pointing Maneuver occurs at 3200 seconds, leading to Occultation at 3300 seconds. From 3300 to 5500 seconds, the system is in a state of Unused Visibility = 0.</p>									



Visit	Proposal 10794, Visit 05 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02							
	Patterns	# (2) Primary Pattern Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false	Secondary Pattern	Exposures (1)			
Fixed Targets	# (1) Name NGC-0147 Target Coordinates RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000 Comments: This object was generated by the targetselector and retrieved from the NED database.	Targ. Coord. Corrections	Fluxes V=9.5 surf(V) = 26.0	Miscellaneous Reference Frame: NED				
Exposures	# 1 Label N147-F606 W-5 Target (1) NGC-0147	Config,Mode,Aperture ACS/WFC, ACCUM, WFC	Spectral Els. F606W	Opt. Params. CR-SPLIT=NO; GAIN=1	Special Reqs. POS TARG -0.0105, -0.2345	Groups Pattern 1-1 (2)	Exp. Time/[Actual Dur.] 1200.0 Secs [=>1217.0 Secs (Pattern 1)] [=>1217.0 Secs (Pattern 2)] [=>1268.0 Secs (Pattern 3)] [=>1268.0 Secs (Pattern 4)]	Orbit [1] [2]
Orbit Structure	<p style="text-align: right;">Server Version: 20060322</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. At approximately 300 seconds, 'GS Acq' is indicated. At 400 seconds, 'Exp. 1' is shown with a green double-headed arrow. A shaded region with a blue and white checkered pattern extends from 400 seconds to 3100 seconds. At 1800 seconds, a 'Pointing Maneuver' is indicated with a green double-headed arrow, followed by another 'Exp. 1' at 1900 seconds. A second 'Pointing Maneuver' occurs at 3100 seconds. From 3200 seconds onwards, the timeline is labeled 'Occultation' and 'Unused Visibility = 0'. A solid black bar at the bottom of the timeline indicates the occultation period from 1800 to 2100 seconds.</p>							



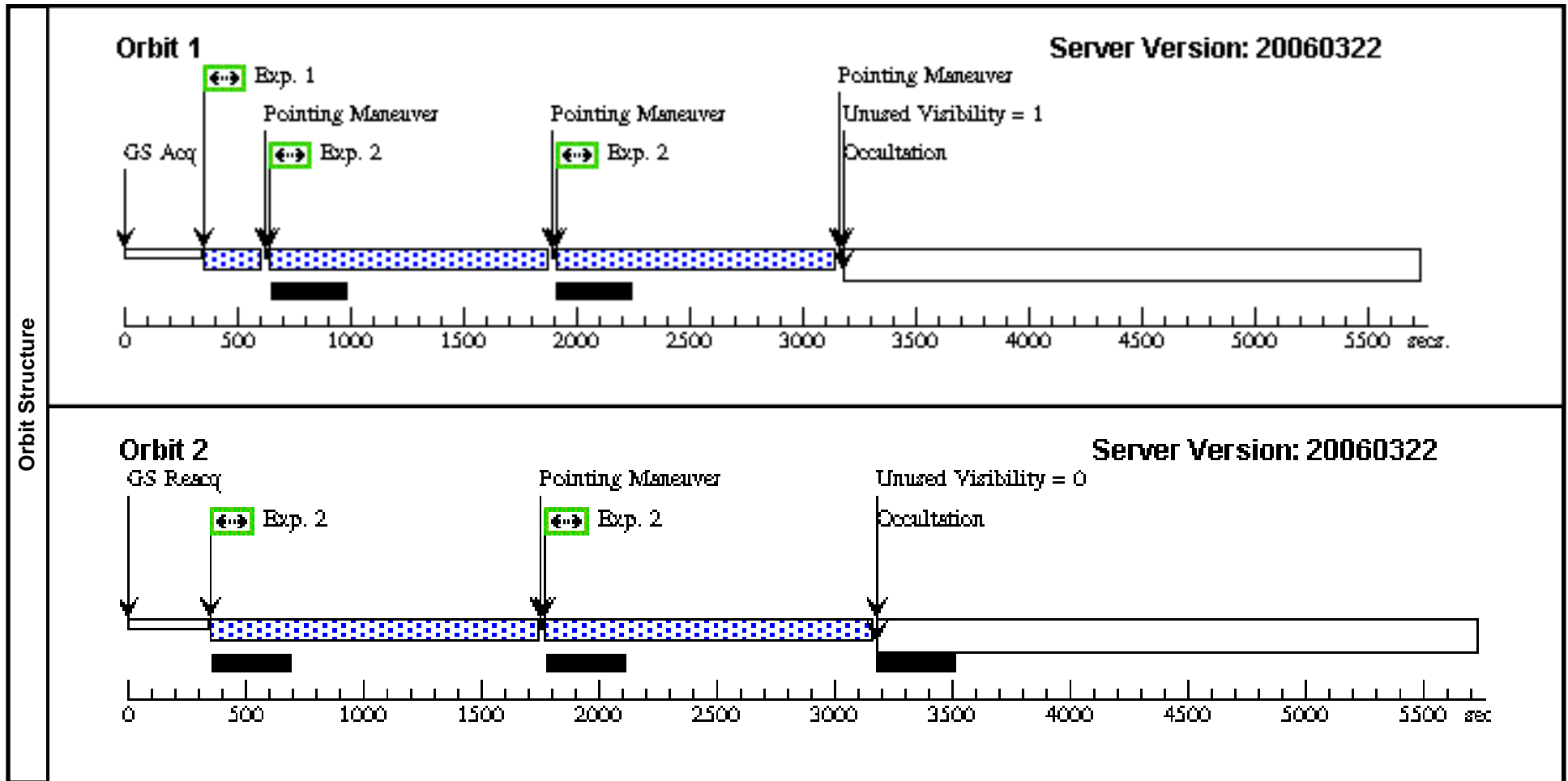
Visit	Proposal 10794, Visit 06 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02									
	Patterns	#	Primary Pattern				Secondary Pattern			
(2)		Pattern Type=BOX	Coordinate Frame=POS-TARG							(1)
		Purpose=DITHER	Pattern Orientation=18.3							
		Number Of Points=4	Angle Between Sides=80.8							
		Point Spacing=0.104	Center Pattern=false							
		Line Spacing=0.053								
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	NGC-0147	RA: 00 32 51.3849 (8.2141038d)	Dec: +48 22 39.97 (48.37777d)			V=9.5	Reference Frame: NED		
			Equinox: J2000			surf(V) = 26.0				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N147-F606 W-6	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.2415,2 .9803	Pattern 1-1 (2)	1200.0 Secs	
								[==>1217.0 Secs (Pattern 1)]	[1]	
								[==>1217.0 Secs (Pattern 2)]		
								[==>1268.0 Secs (Pattern 3)]	[2]	
								[==>1268.0 Secs (Pattern 4)]		
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p> <p>The diagram illustrates the timeline for Orbit 1. It starts at 0 seconds and ends at 5500 seconds. Key events are marked with arrows: GS Acq at approximately 300 seconds, followed by Exp. 1 at 400 seconds. A blue checkered bar indicates the observation period from 400 to 3200 seconds. A Pointing Maneuver occurs at 1800 seconds, followed by another Exp. 1 at 1900 seconds. A second Pointing Maneuver occurs at 3200 seconds, leading to Occultation at 3300 seconds. From 3300 seconds to the end of the orbit at 5500 seconds, the visibility is unused (Unused Visibility = 0).</p>									



Proposal 10794 - Visit 07 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:19 GMT 2006

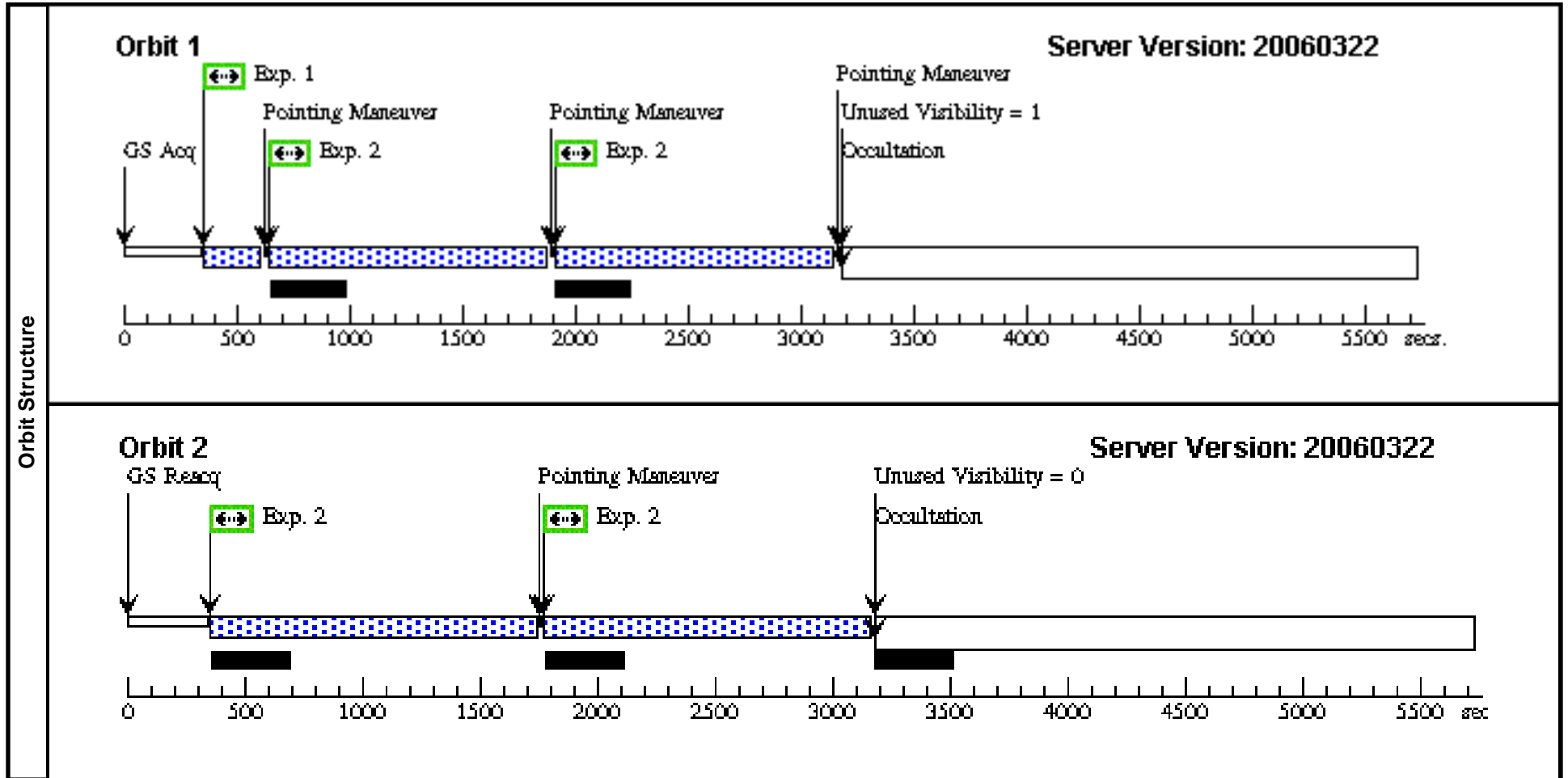
Visit		Proposal 10794, Visit 07 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02								
Patterns	#	Primary Pattern			Secondary Pattern		Exposures			
	(2)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false				(2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-0147	RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000		V=9.5 surf(V) = 26.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N147-short-F606W-1	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1			43.0 Secs [==>]	[1]
	2	N147-F606W-7	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.4712,3 .0254	Pattern 2-2 (2)	1200.0 Secs [==>1113.0 Secs (Pattern 1)] [==>1113.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]



Proposal 10794 - Visit 08 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:19 GMT 2006

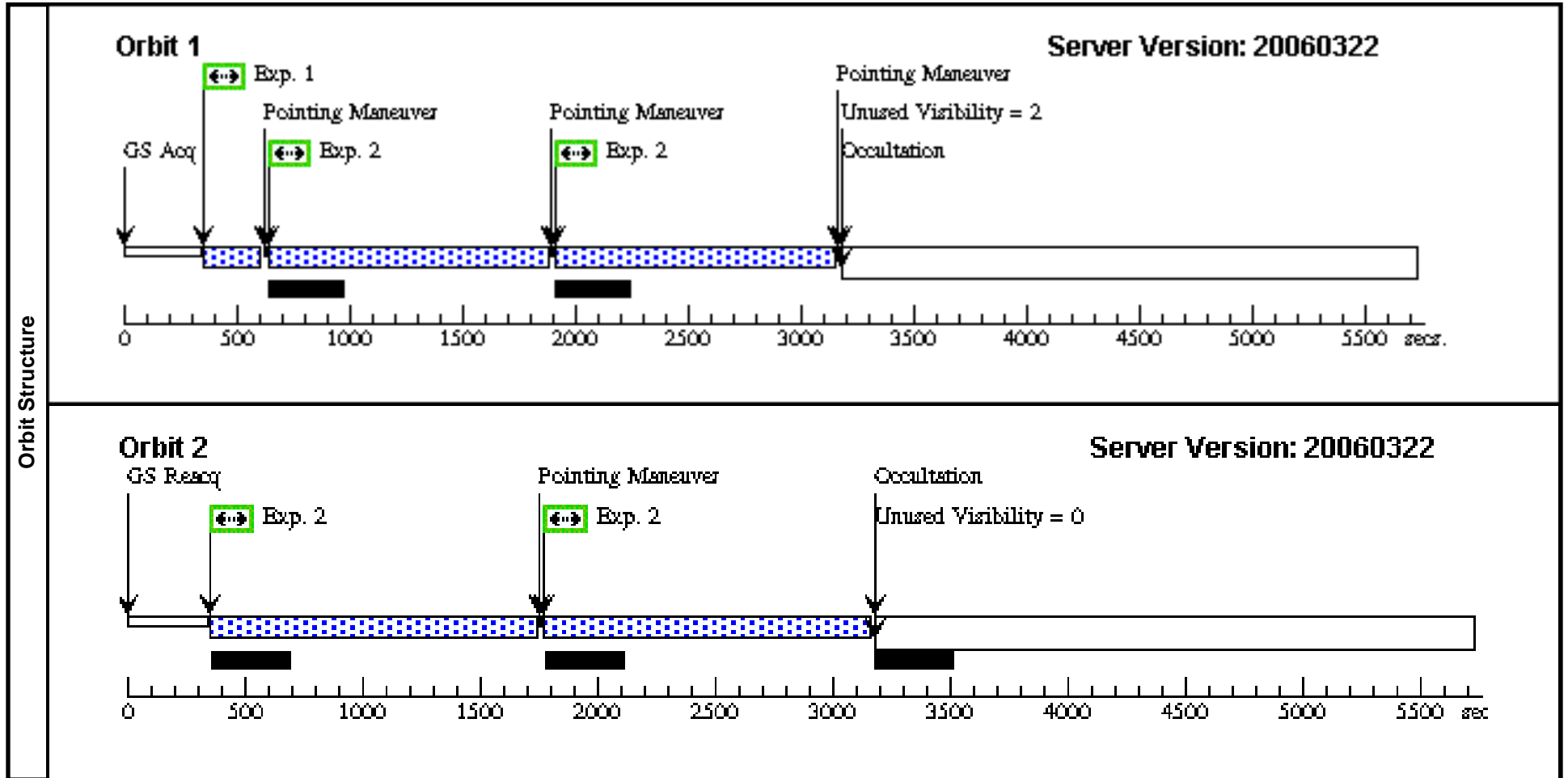
Visit		Proposal 10794, Visit 08 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02								
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-0147	RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000		V=9.5 surf(V) = 26.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N147-short-F606W-2	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.1235,0 .0841		43.0 Secs [==>]	[1]
	2	N147-F606W-8	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.2253,3 .2058	Pattern 2-2 (2)	1200.0 Secs [==>1113.0 Secs (Pattern 1)] [==>1113.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]



Proposal 10794 - Visit 09 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:20 GMT 2006

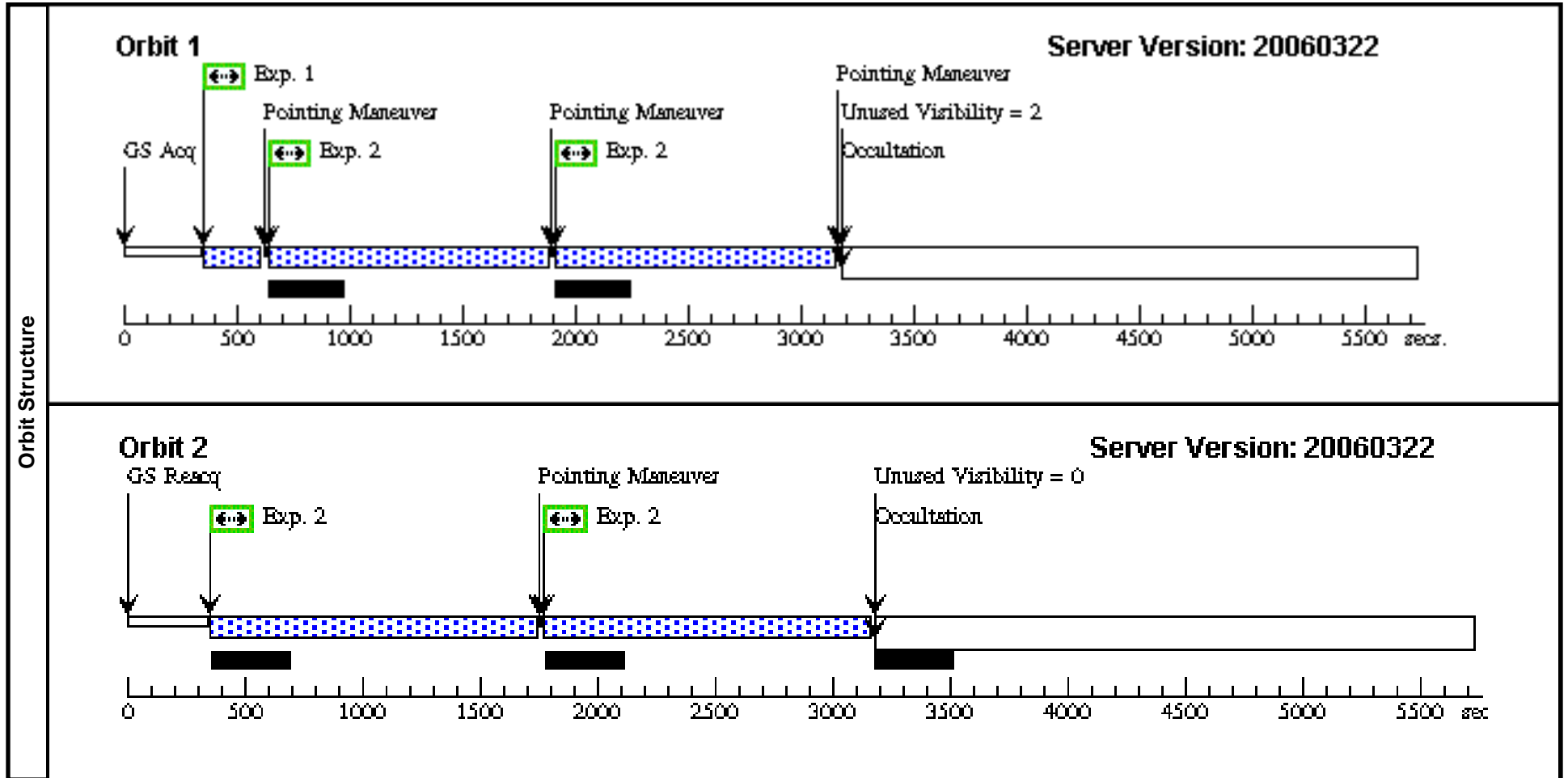
Visit	Proposal 10794, Visit 09 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(2)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false					(2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-0147	RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000		V=9.5 surf(V) = 26.0	Reference Frame: NED				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N147-short-F606W-3	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.247,2.984			44.0 Secs [==>]
	2	N147-F606W-9	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.023,2.9803	Pattern 2-2 (2)	1200.0 Secs [==>1114.0 Secs (Pattern 1)] [==>1114.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]



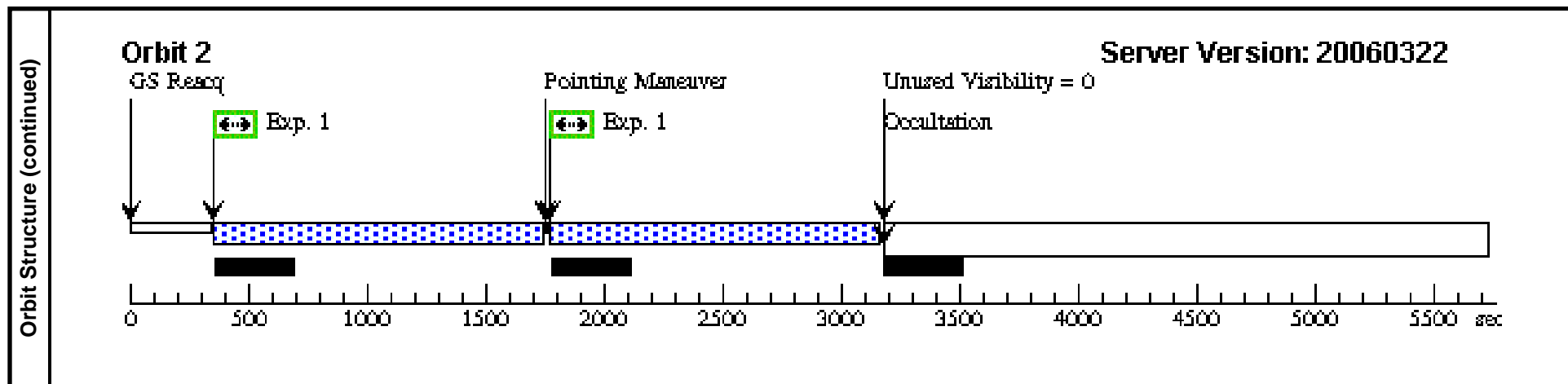
Proposal 10794 - Visit 10 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:20 GMT 2006

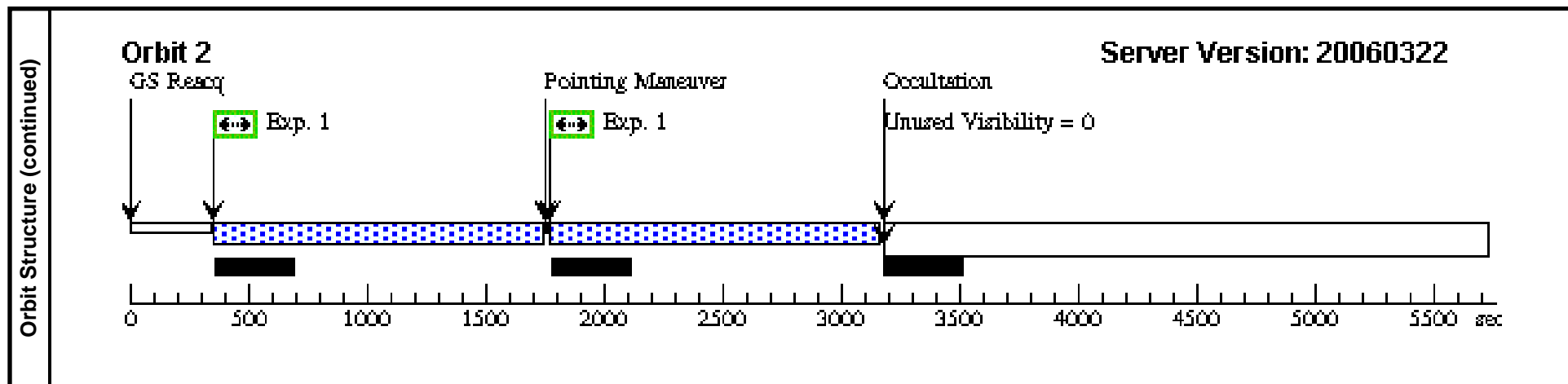
Visit	Proposal 10794, Visit 10 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(2)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false					(2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-0147	RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000		V=9.5 surf(V) = 26.0	Reference Frame: NED				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N147-short-F606W-4	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.3705,3 .0681		44.0 Secs [==>]	[1]
	2	N147-F606W-10	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.2497,2 .7265	Pattern 2-2 (2)	1200.0 Secs [==>1114.0 Secs (Pattern 1)] [==>1114.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]



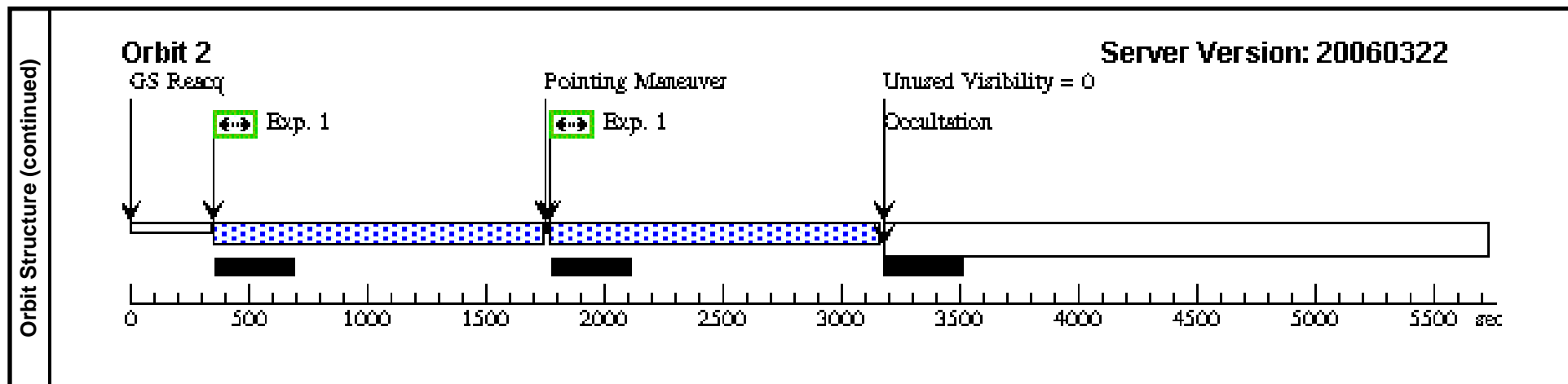
Visit	Proposal 10794, Visit 11 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02									
	Patterns	#	Primary Pattern				Secondary Pattern			
(2)		Pattern Type=BOX	Coordinate Frame=POS-TARG							(1)
		Purpose=DITHER	Pattern Orientation=18.3							
		Number Of Points=4	Angle Between Sides=80.8							
		Point Spacing=0.104	Center Pattern=false							
		Line Spacing=0.053								
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	NGC-0147	RA: 00 32 51.3849 (8.2141038d)	Dec: +48 22 39.97 (48.37777d)	Equinox: J2000		V=9.5	surf(V) = 26.0	Reference Frame: NED	
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N147-F814 W-1	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1		Pattern 1-1 (2)	1200.0 Secs	
								[=>1217.0 Secs (Pattern 1)]		[1]
								[=>1217.0 Secs (Pattern 2)]		
								[=>1268.0 Secs (Pattern 3)]		[2]
								[=>1268.0 Secs (Pattern 4)]		
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with arrows and labels: 'GS Acq' at ~300s, 'Exp. 1' at ~400s, 'Pointing Maneuver' at ~1800s, 'Exp. 1' at ~1900s, and 'Pointing Maneuver' at ~3200s. A shaded region from ~3200s to ~5500s is labeled 'Occultation' and 'Unused Visibility = 0'. The timeline is divided into segments by these events.</p>									
		<p>Timeline labels: GS Acq, Exp. 1, Pointing Maneuver, Exp. 1, Pointing Maneuver, Unused Visibility = 0, Occultation.</p> <p>Timeline axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 secr.</p>								



Visit	Proposal 10794, Visit 12 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02									
	Patterns	#	Primary Pattern				Secondary Pattern			
(2)		Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NGC-0147	RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000				V=9.5 surf(V) = 26.0	Reference Frame: NED		
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N147-F814 W-2	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG 0.2695,0 .0025	Pattern 1-1 (2)	1200.0 Secs [=>1217.0 Secs (Pattern 1)] [=>1217.0 Secs (Pattern 2)] [=>1268.0 Secs (Pattern 3)] [=>1268.0 Secs (Pattern 4)]	[1] [2]
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with vertical arrows: GS Acq at ~300s, Exp. 1 at ~400s, Pointing Maneuver at ~1800s, Exp. 1 at ~1900s, another Pointing Maneuver at ~3200s, and Occultation starting at ~3300s. A shaded region from ~400s to ~3200s indicates the observation period. Unused visibility is 0 during the occultation phase.</p>									
	<p>Timeline labels: GS Acq, Exp. 1, Pointing Maneuver, Exp. 1, Pointing Maneuver, Unused Visibility = 0, Occultation.</p> <p>X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 secr.</p>									



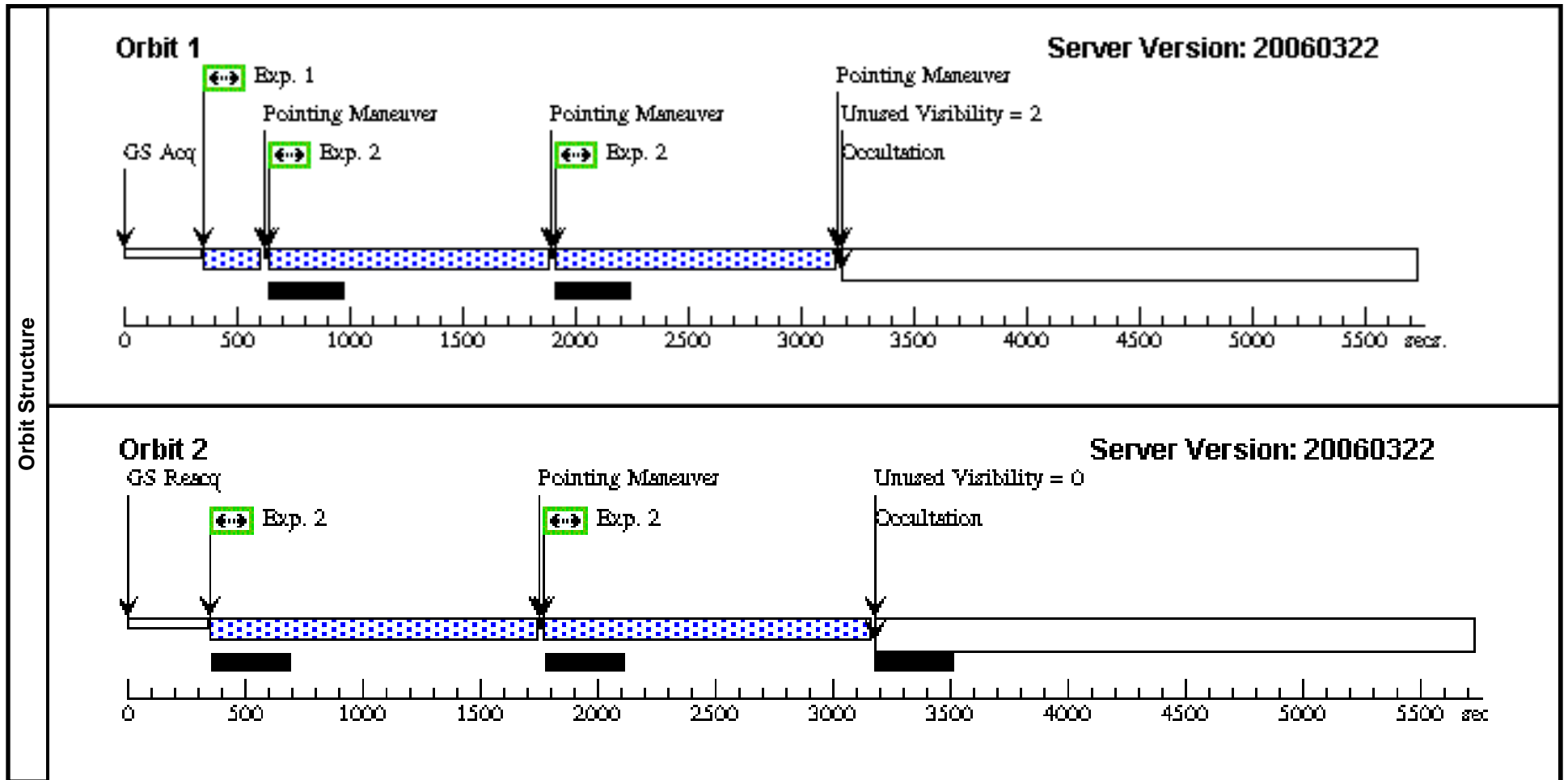
Visit	Proposal 10794, Visit 13 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
(2)		Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-0147	RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000		V=9.5 surf(V) = 26.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N147-F814 W-3	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG -0.0084, 0.2516	Pattern 1-1 (2)	1200.0 Secs [==>1217.0 Secs (Pattern 1)] [==>1217.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with vertical arrows: GS Acq at ~300s, Exp. 1 at ~400s, Pointing Maneuver at ~1800s, Exp. 1 at ~1900s, Pointing Maneuver at ~3200s, and Occultation at ~3300s. A blue checkered bar represents the observation period from ~400s to ~3200s. A black bar is shown below the timeline between 1800s and 2100s. The text 'Unused Visibility = 0' is shown from 3300s to 5500s.</p>									



Proposal 10794 - Visit 14 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:22 GMT 2006

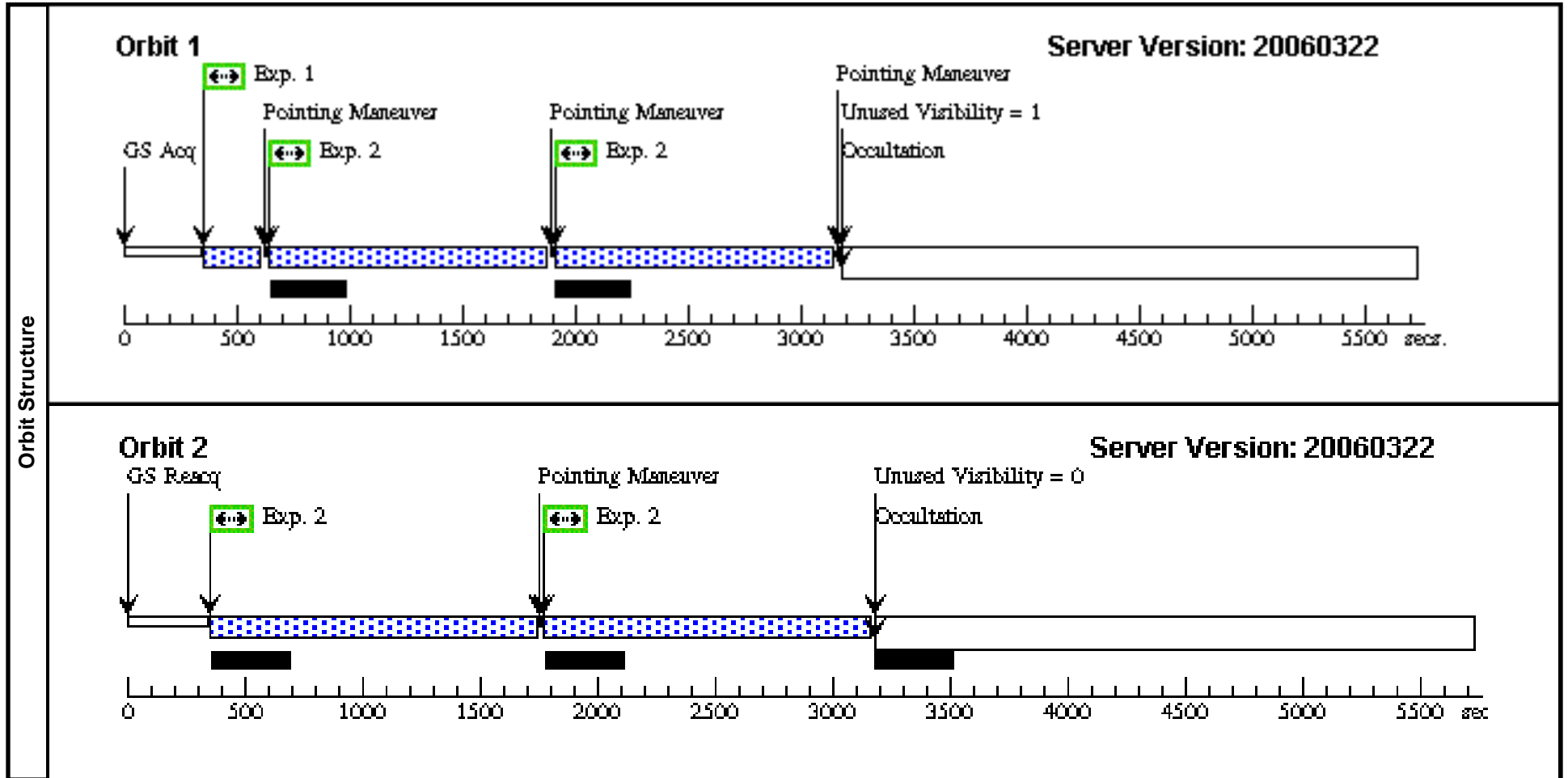
Visit	Proposal 10794, Visit 14 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(2)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false					(2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-0147	RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000		V=9.5 surf(V) = 26.0	Reference Frame: NED				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N147-short-F814W-1	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1			44.0 Secs [==>]	[1]
	2	N147-F814W-4	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG -0.2706, -0.0322	Pattern 2-2 (2)	1200.0 Secs [==>1114.0 Secs (Pattern 1)] [==>1114.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]



Proposal 10794 - Visit 15 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:22 GMT 2006

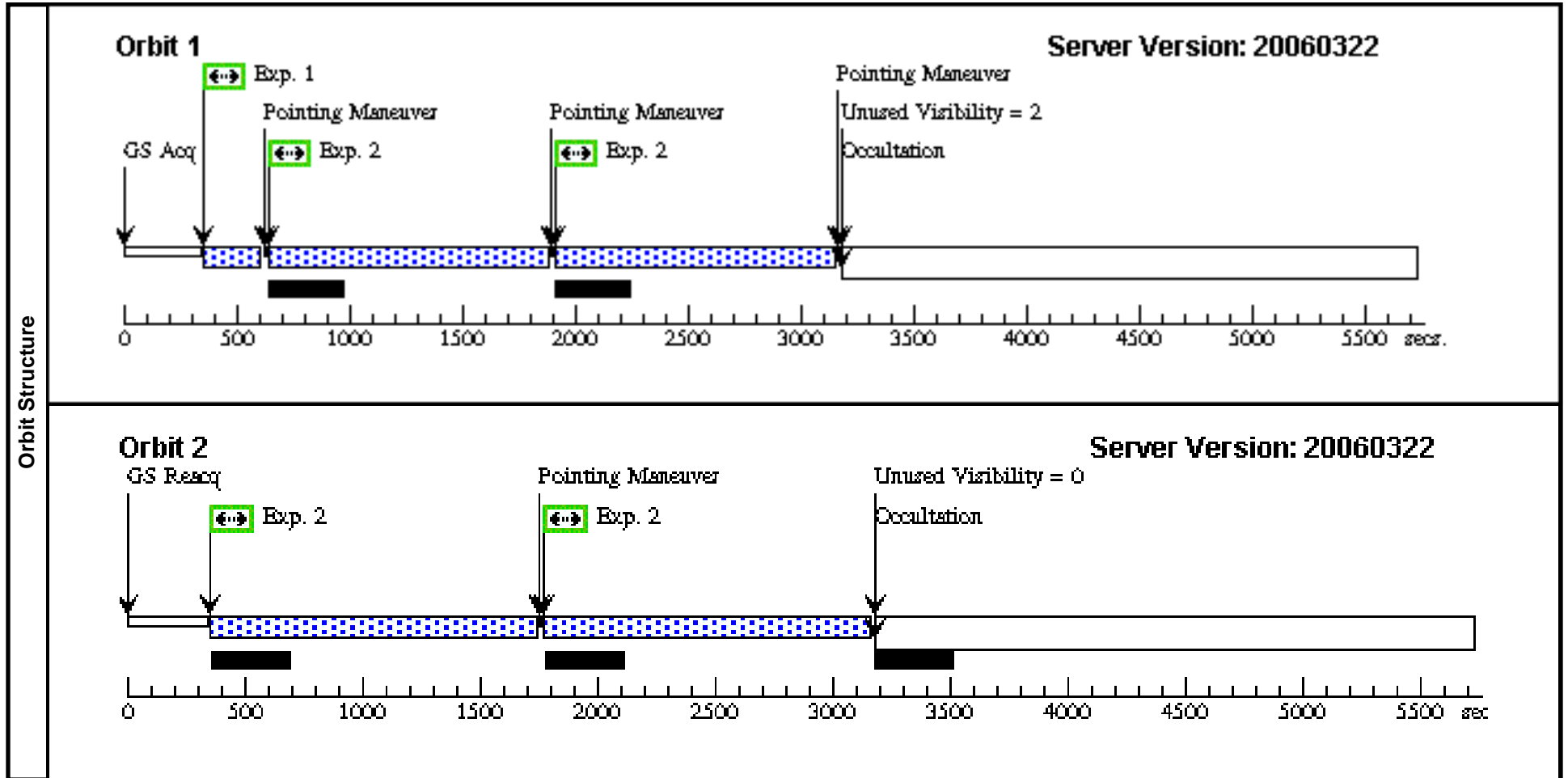
Visit		Proposal 10794, Visit 15 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02								
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-0147	RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000		V=9.5 surf(V) = 26.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N147-short-F814W-2	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG 0.1235,0 .0841		43.0 Secs [==>]	[1]
	2	N147-F814W-5	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG 0.2459,2 .9705	Pattern 2-2 (2)	1200.0 Secs [==>1113.0 Secs (Pattern 1)] [==>1113.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]



Proposal 10794 - Visit 16 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:23 GMT 2006

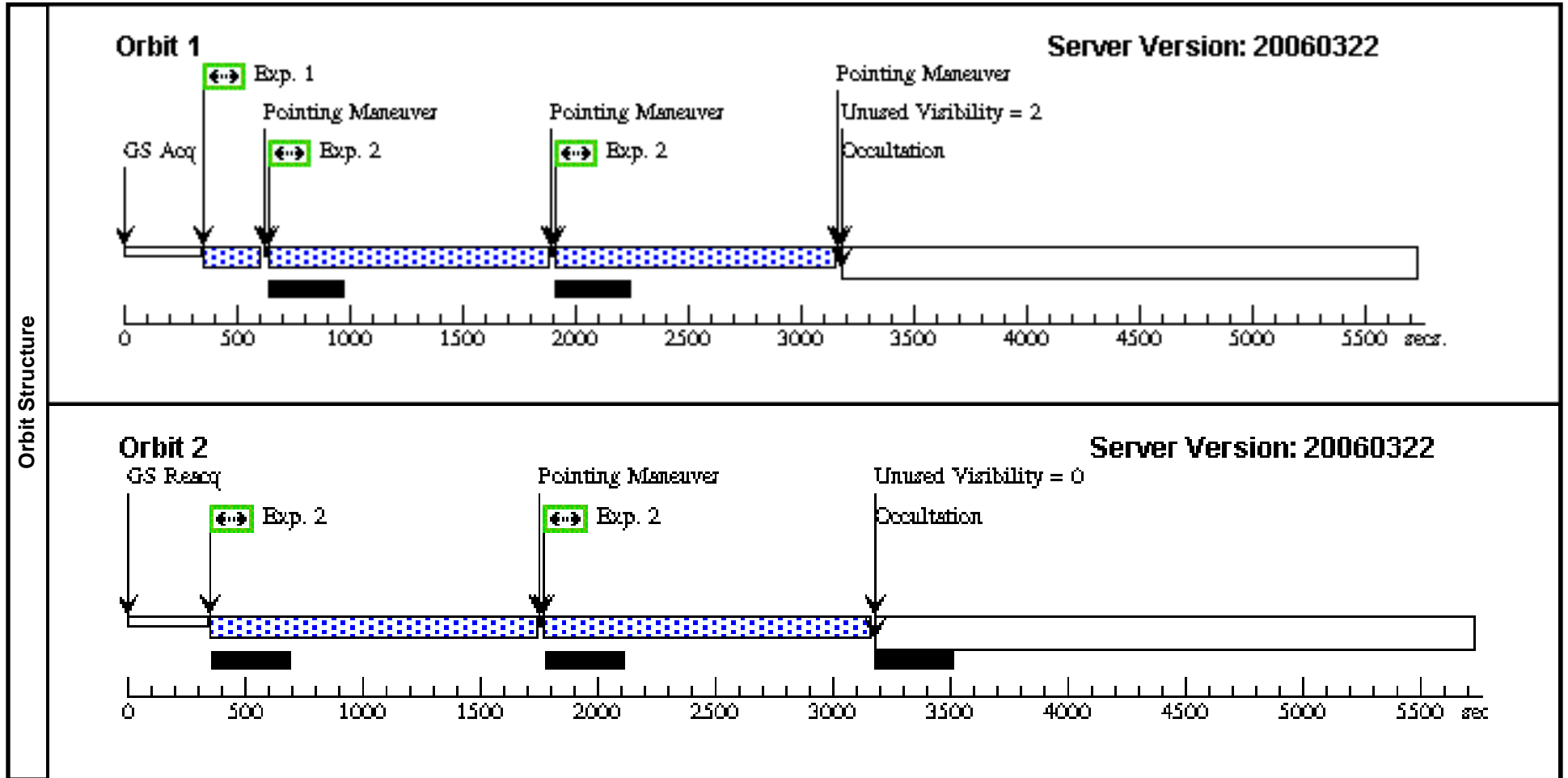
Visit		Proposal 10794, Visit 16 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02								
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(2)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false			(2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-0147	RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000		V=9.5 surf(V) = 26.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N147-short-F814W-3	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG 0.247,2.984		44.0 Secs [==>]	[1]
	2	N147-F814W-6	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG 0.5047,3.0227	Pattern 2-2 (2)	1200.0 Secs [==>1114.0 Secs (Pattern 1)] [==>1114.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]



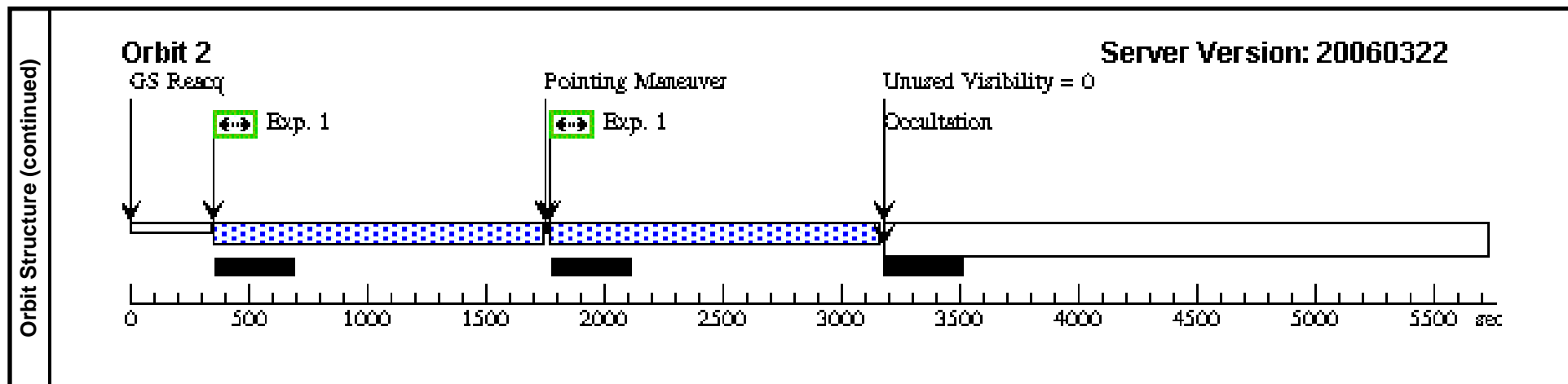
Proposal 10794 - Visit 17 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:24 GMT 2006

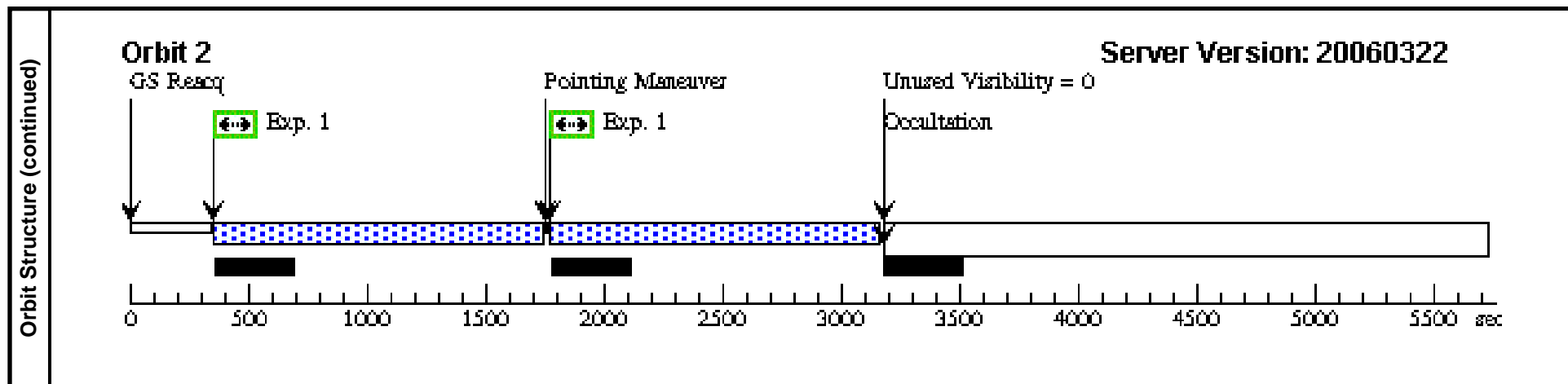
Visit	Proposal 10794, Visit 17 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(2)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false					(2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-0147	RA: 00 32 51.3849 (8.2141038d) Dec: +48 22 39.97 (48.37777d) Equinox: J2000		V=9.5 surf(V) = 26.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N147-short-F814W-4	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG 0.3705,3 .0681		44.0 Secs [==>]	[1]
	2	N147-F814W-7	(1) NGC-0147	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG 0.2513,3 .216	Pattern 2-2 (2)	1200.0 Secs [==>1114.0 Secs (Pattern 1)] [==>1114.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]



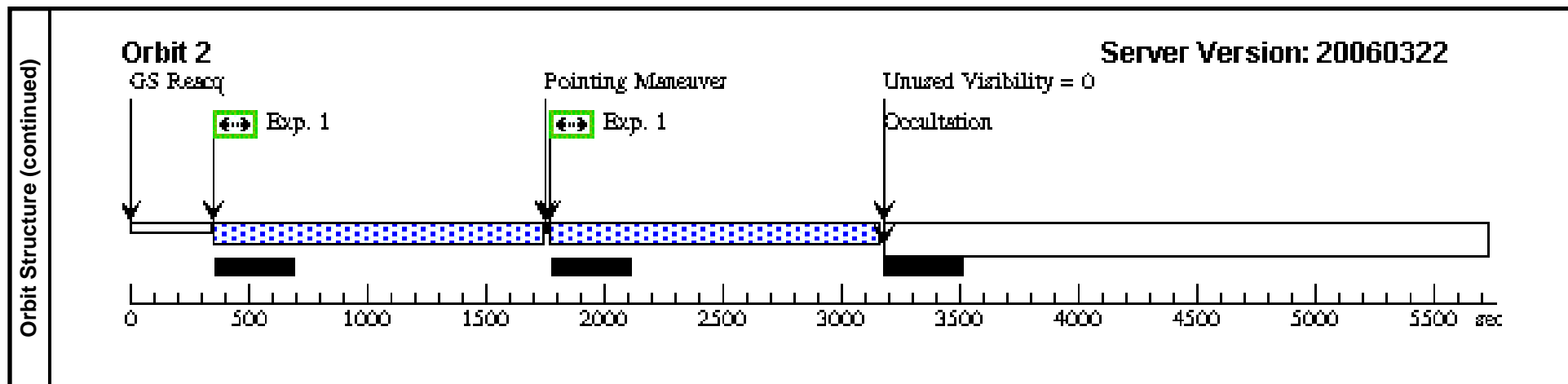
Visit	Proposal 10794, Visit 18 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: BEFORE 01-FEB-2007:00:00:00										
	Patterns	#	Primary Pattern				Secondary Pattern				Exposures
(1)		Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.073 Line Spacing=0.073	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides=90 Center Pattern=false							(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	NGC-0185	RA: 00 39 10.6604 (9.7944183d) Dec: +48 26 37.75 (48.44382d) Equinox: J2000					V=9.2 surf(V) = 26.0	Reference Frame: NED		
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	N185-F606 W-1	(2) NGC-0185	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Pattern 1-1 (1)	1200.0 Secs [=>1217.0 Secs (Pattern 1)] [=>1217.0 Secs (Pattern 2)] [=>1268.0 Secs (Pattern 3)] [=>1268.0 Secs (Pattern 4)]	[1] [2]	
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. At approximately 30 seconds, 'GS Acq' is indicated. At 40 seconds, 'Exp. 1' is shown with a green double-headed arrow. At approximately 1800 seconds, a 'Pointing Maneuver' is indicated. At approximately 1900 seconds, another 'Exp. 1' is shown with a green double-headed arrow. At approximately 3200 seconds, a 'Pointing Maneuver' is indicated. From 3200 seconds to the end of the timeline at 5500 seconds, the area is shaded and labeled 'Occultation' and 'Unused Visibility = 0'.</p>										



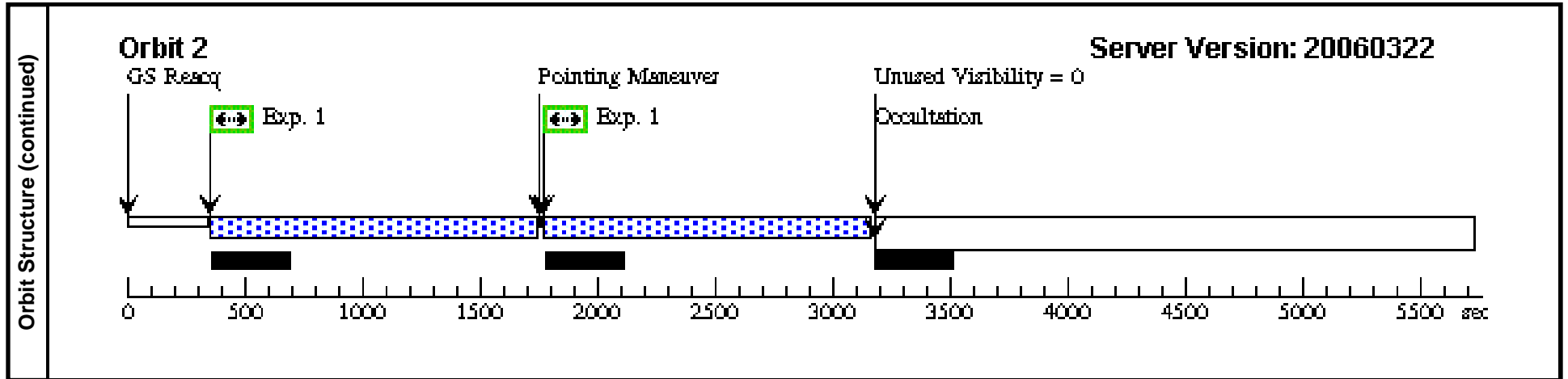
Visit	Proposal 10794, Visit 19 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(2)		Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false						(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(3)	NGC-0185A	RA: 00 39 11.2262 (9.7967758d) Dec: +48 27 6.84 (48.45190d) Equinox: J2000					V=9.2 surf(V) = 26.0	Reference Frame: NED	
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N185-F606 W-2	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.2607,0 .0236	Pattern 1-1 (2)	1200.0 Secs [=>1217.0 Secs (Pattern 1)] [=>1217.0 Secs (Pattern 2)] [=>1268.0 Secs (Pattern 3)] [=>1268.0 Secs (Pattern 4)]	[1] [2]
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p> <p>The diagram illustrates the orbit structure for Orbit 1. The x-axis represents time in seconds, ranging from 0 to 5500. Key events are marked with arrows: GS Acq at approximately 300 seconds, followed by Exp. 1 at 400 seconds. A blue checkered bar indicates the observation period from 400 to 3100 seconds. A Pointing Maneuver occurs at 1800 seconds, followed by another Exp. 1 at 1900 seconds. A second Pointing Maneuver occurs at 3100 seconds, followed by Occultation at 3200 seconds. The period from 3200 to 5500 seconds is labeled as Unused Visibility = 0.</p>									



Visit	Proposal 10794, Visit 20 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 19									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(2)		Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false						(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes		Miscellaneous		
	(3)	NGC-0185A	RA: 00 39 11.2262 (9.7967758d) Dec: +48 27 6.84 (48.45190d) Equinox: J2000			V=9.2 surf(V) = 26.0		Reference Frame: NED		
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N185-F606 W-3	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0,0.2518	Pattern 1-1 (2)	1200.0 Secs [=>1217.0 Secs (Pattern 1)] [=>1217.0 Secs (Pattern 2)] [=>1268.0 Secs (Pattern 3)] [=>1268.0 Secs (Pattern 4)]	[1] [2]
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with vertical arrows: GS Acq at ~300s, Exp. 1 at ~400s, Pointing Maneuver at ~1800s, Exp. 1 at ~1900s, Occultation at ~3200s, and another Pointing Maneuver at ~3300s. A blue and white checkered shaded region from ~400s to ~3200s represents the observation period. A solid black bar is shown below the timeline between ~1800s and ~2100s. Text on the right indicates 'Unused Visibility = 0' for the period after the occultation.</p>									



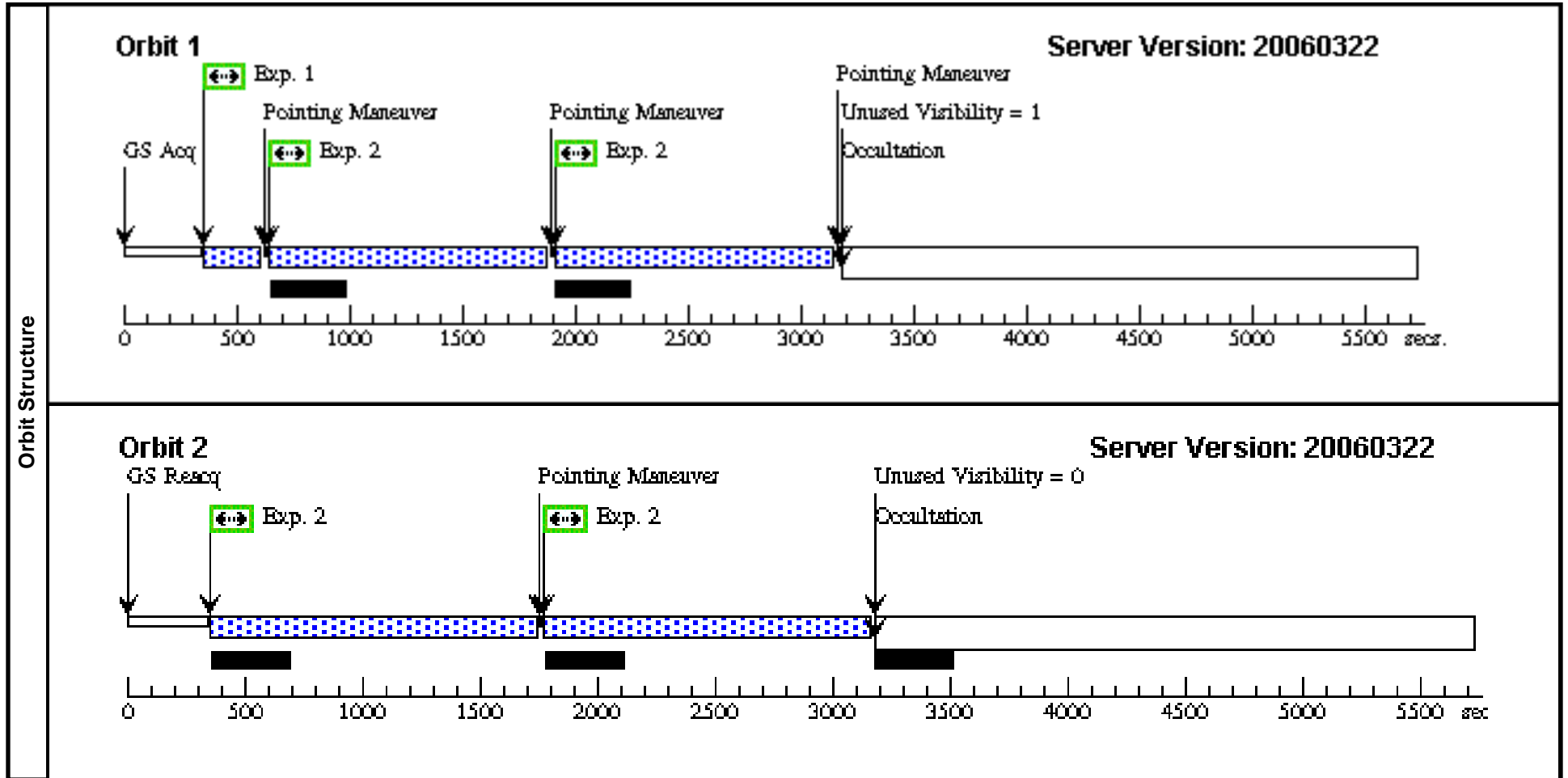
Visit	Proposal 10794, Visit 21 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 19										
	Patterns	#	Primary Pattern				Secondary Pattern				Exposures
(2)		Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false					(1)			
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-0185A	RA: 00 39 11.2262 (9.7967758d) Dec: +48 27 6.84 (48.45190d) Equinox: J2000					V=9.2 surf(V) = 26.0	Reference Frame: NED		
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	N185-F606 W-4	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG -0.2309, -0.0171	Pattern 1-1 (2)	1200.0 Secs		
									[==>1217.0 Secs (Pattern 1)]		[1]
									[==>1217.0 Secs (Pattern 2)]		
									[==>1268.0 Secs (Pattern 3)]		[2]
									[==>1268.0 Secs (Pattern 4)]		
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. At approximately 300 seconds, 'GS Acq' is indicated. At 400 seconds, 'Exp. 1' is shown with a green double-headed arrow. A blue checkered bar representing the observation period extends from 400 to 3200 seconds. At 1800 seconds, a 'Pointing Maneuver' is indicated. At 1900 seconds, another 'Exp. 1' is shown with a green double-headed arrow. At 3200 seconds, 'Occultation' begins, and 'Unused Visibility = 0' is noted for the remainder of the orbit.</p>										
	<p>Timeline labels: GS Acq, Exp. 1, Pointing Maneuver, Exp. 1, Occultation, Unused Visibility = 0</p> <p>Time axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 secr.</p>										



Proposal 10794 - Visit 22 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:25 GMT 2006

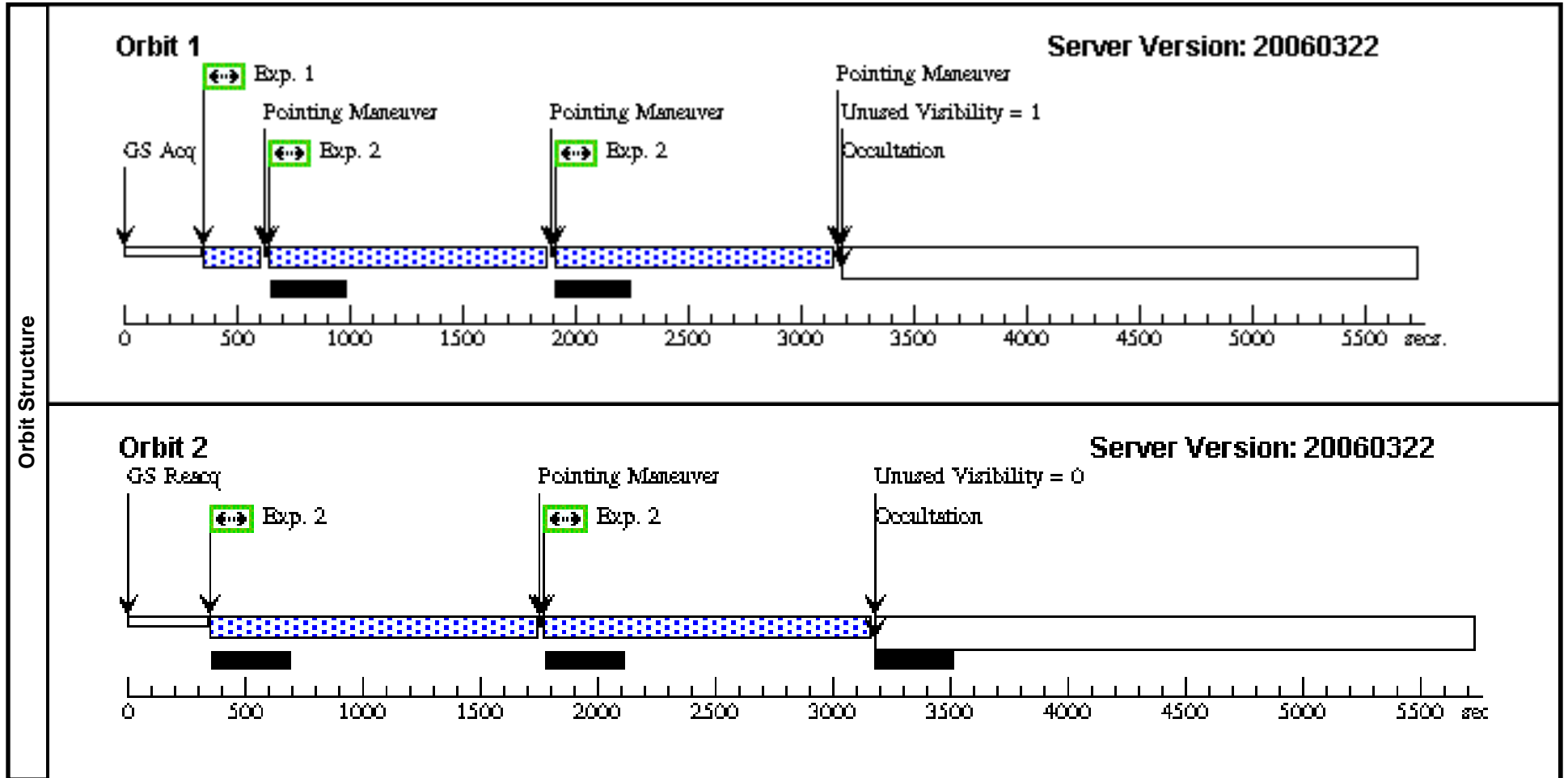
Visit	Proposal 10794, Visit 22 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 19										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(2)		Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false						(2)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes		Miscellaneous			
	(3)	NGC-0185A	RA: 00 39 11.2262 (9.7967758d) Dec: +48 27 6.84 (48.45190d) Equinox: J2000				V=9.2 surf(V) = 26.0	Reference Frame: NED			
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	N185-short-F606W-1	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1			43.0 Secs [==>]		[1]
	2	N185-F606W-5	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.229,2.9882	Pattern 2-2 (2)	1200.0 Secs [==>1113.0 Secs (Pattern 1)] [==>1113.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]		[1] [2]



Proposal 10794 - Visit 23 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:26 GMT 2006

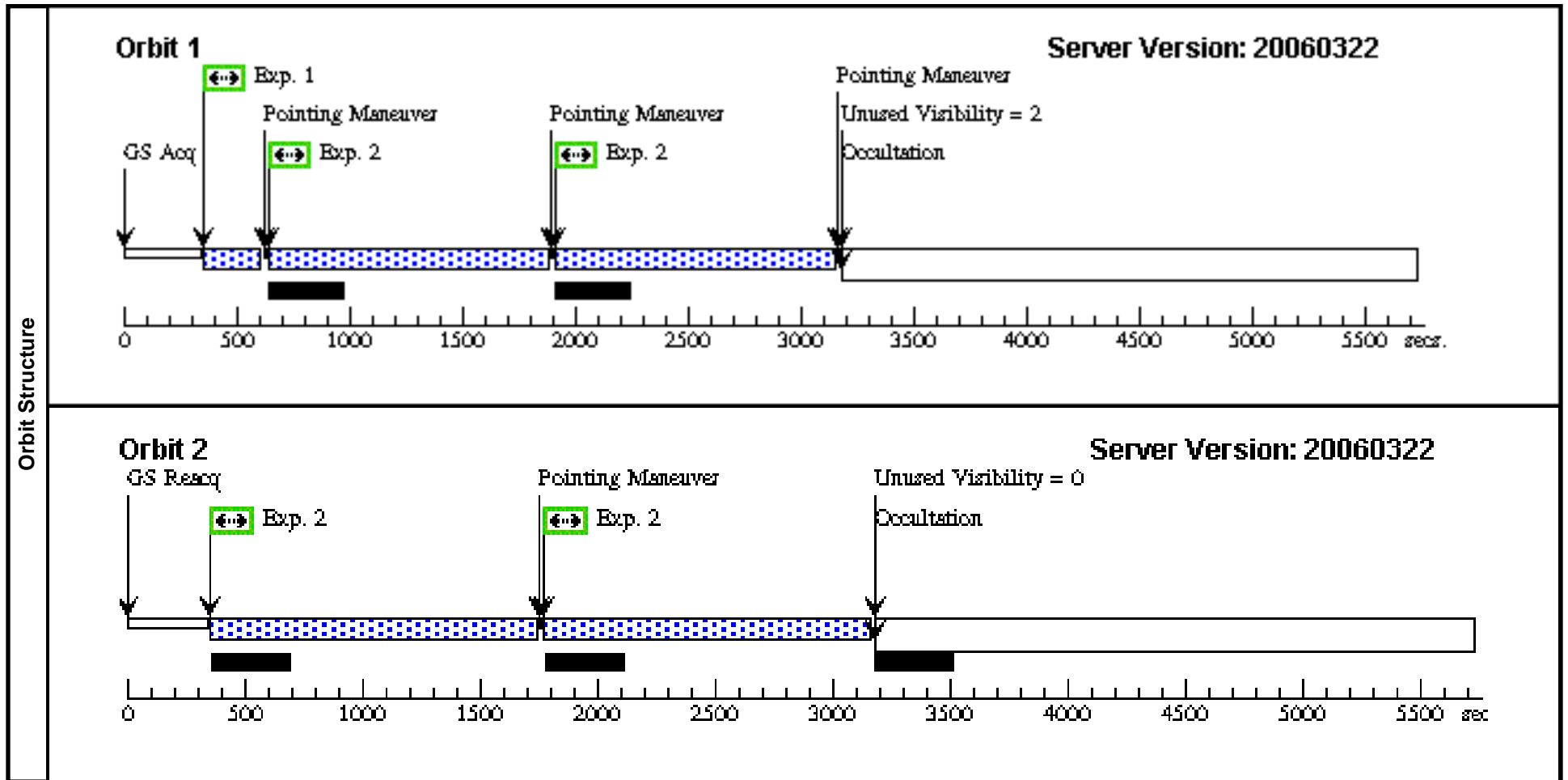
Visit		Proposal 10794, Visit 23 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 19								
Patterns	#	Primary Pattern			Secondary Pattern		Exposures			
	(2)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false				(2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-0185A	RA: 00 39 11.2262 (9.7967758d) Dec: +48 27 6.84 (48.45190d) Equinox: J2000		V=9.2 surf(V) = 26.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N185-short-F606W-2	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.1235,0 .0841		43.0 Secs [==>]	[1]
	2	N185-F606W-6	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.4811,3 .003	Pattern 2-2 (2)	1200.0 Secs [==>1113.0 Secs (Pattern 1)] [==>1113.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]



Proposal 10794 - Visit 24 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:26 GMT 2006

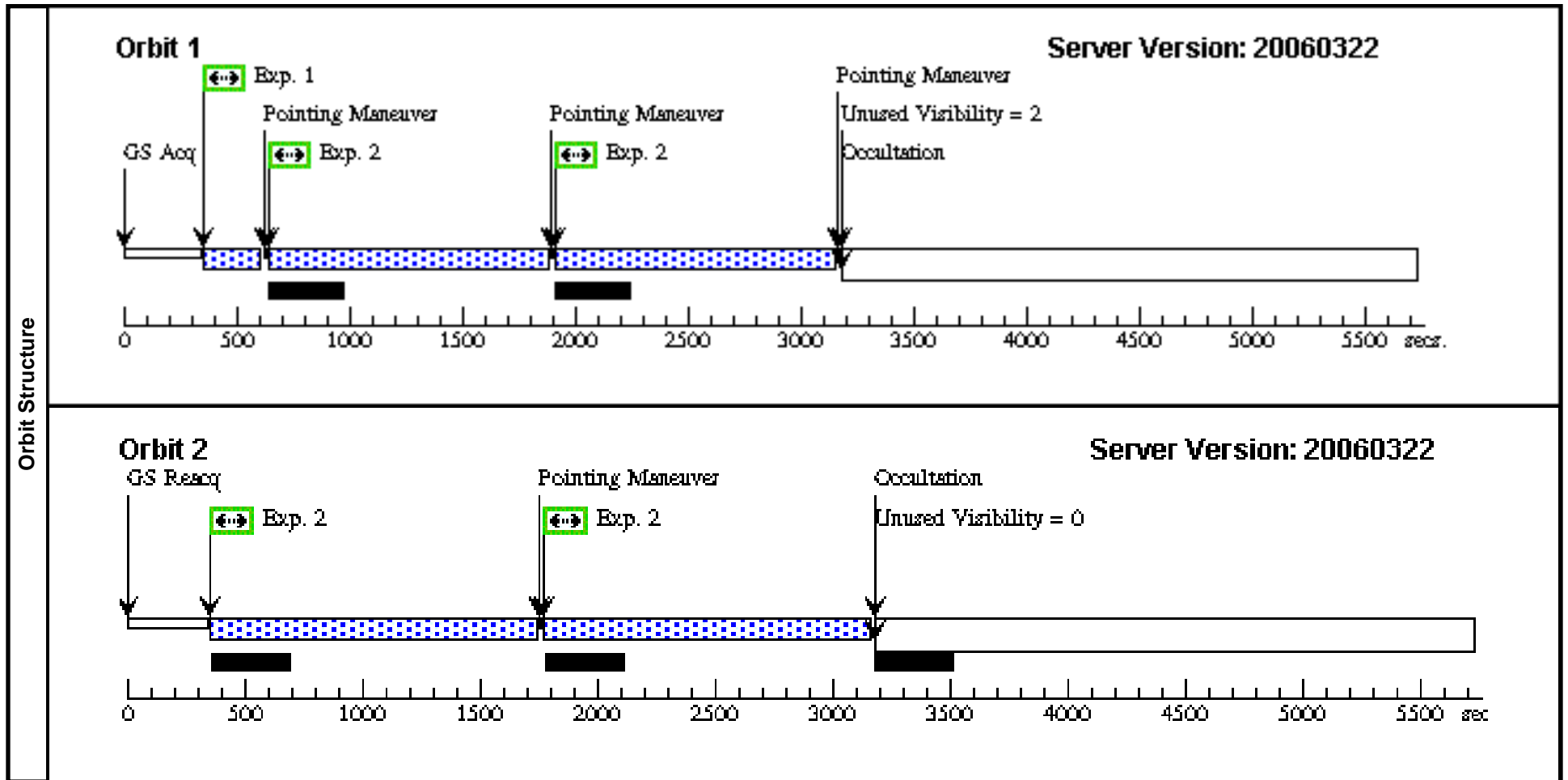
Visit		Proposal 10794, Visit 24 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 19								
Patterns	#	Primary Pattern			Secondary Pattern		Exposures			
	(2)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false				(2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-0185A	RA: 00 39 11.2262 (9.7967758d) Dec: +48 27 6.84 (48.45190d) Equinox: J2000		V=9.2 surf(V) = 26.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N185-short-F606W-3	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.247,2.984		44.0 Secs [==>]	[1]
	2	N185-F606W-7	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.2699,3.2253	Pattern 2-2 (2)	1200.0 Secs [==>1114.0 Secs (Pattern 1)] [==>1114.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]



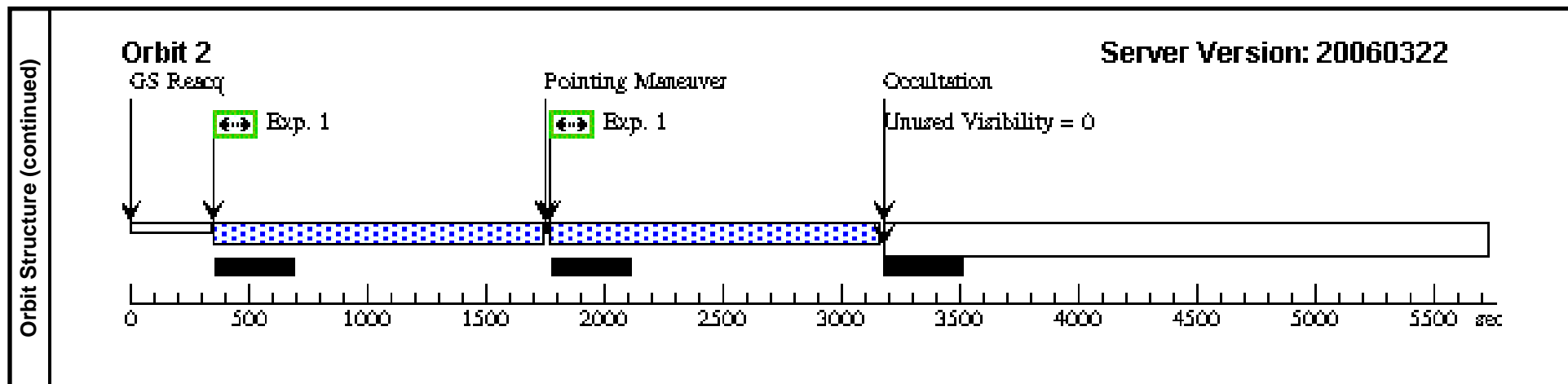
Proposal 10794 - Visit 25 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:26 GMT 2006

Visit	Proposal 10794, Visit 25 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 19									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(2)	Pattern Type=BOX	Coordinate Frame=POS-TARG							(2)
		Purpose=DITHER	Pattern Orientation=18.3							
		Number Of Points=4	Angle Between Sides=80.8							
		Point Spacing=0.104	Center Pattern=false							
		Line Spacing=0.053								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-0185A	RA: 00 39 11.2262 (9.7967758d)		V=9.2	Reference Frame: NED				
			Dec: +48 27 6.84 (48.45190d)		surf(V) = 26.0					
			Equinox: J2000							
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N185-short-F606W-4	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG 0.3705,3 .0681		44.0 Secs	
									[==>]	[1]
	2	N185-F606W-8	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO; GAIN=1	POS TARG -0.0065, 2.9824	Pattern 2-2 (2)	1200.0 Secs	
									[==>1114.0 Secs (Pattern 1)]	[1]
									[==>1114.0 Secs (Pattern 2)]	[1]
									[==>1268.0 Secs (Pattern 3)]	[2]
									[==>1268.0 Secs (Pattern 4)]	[2]



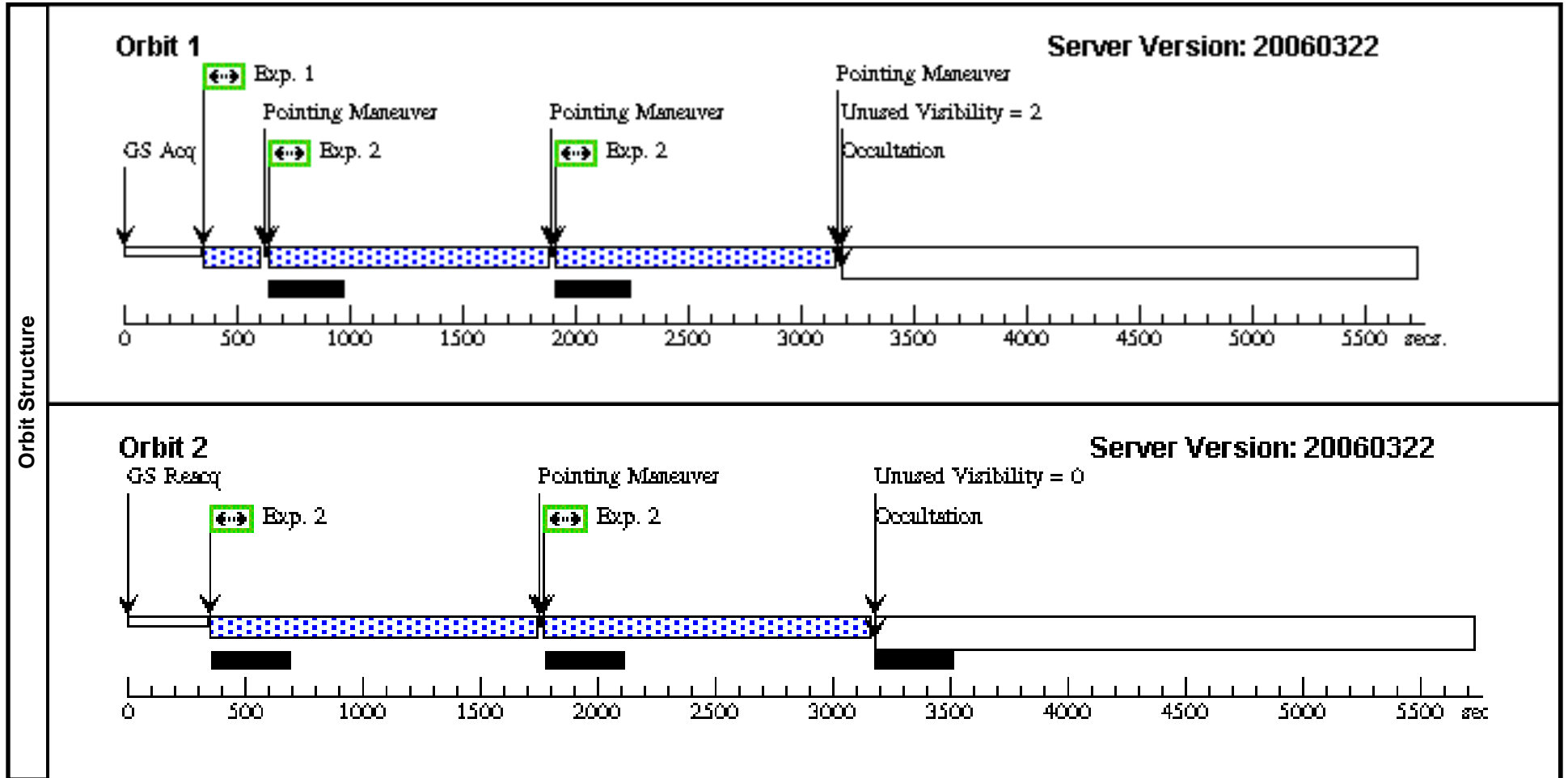
Visit	Proposal 10794, Visit 26 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 19									
	Patterns	#	Primary Pattern				Secondary Pattern			
(2)		Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	NGC-0185A	RA: 00 39 11.2262 (9.7967758d) Dec: +48 27 6.84 (48.45190d) Equinox: J2000				V=9.2 surf(V) = 26.0	Reference Frame: NED		
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N185-F814 W-1	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1		Pattern 1-1 (2)	1200.0 Secs [=>1217.0 Secs (Pattern 1)] [=>1217.0 Secs (Pattern 2)] [=>1268.0 Secs (Pattern 3)] [=>1268.0 Secs (Pattern 4)]	[1] [2]
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with vertical arrows: GS Acq at ~300s, Exp. 1 at ~400s, Pointing Maneuver at ~1800s, Exp. 1 at ~1900s, Occultation at ~3200s, and another Pointing Maneuver at ~3300s. A shaded region from 300s to 3200s is labeled 'Unused Visibility = 0'. The timeline is divided into segments by these events.</p>									
	<p>Timeline labels: GS Acq, Exp. 1, Pointing Maneuver, Occultation, Unused Visibility = 0, Pointing Maneuver.</p>									



Proposal 10794 - Visit 27 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:27 GMT 2006

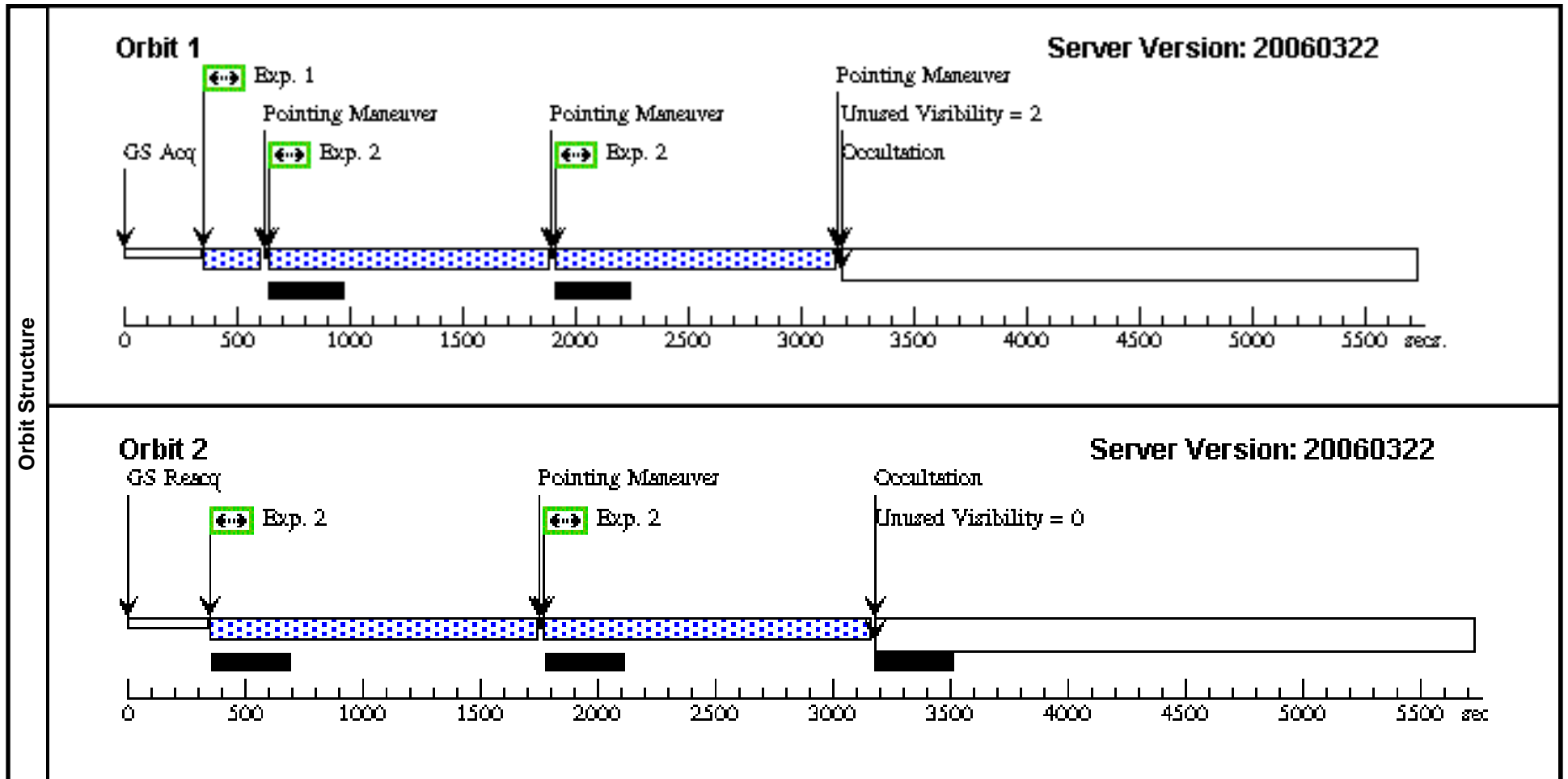
Visit		Proposal 10794, Visit 27 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 19								
Patterns	#	Primary Pattern			Secondary Pattern		Exposures			
	(2)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false				(2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-0185A	RA: 00 39 11.2262 (9.7967758d) Dec: +48 27 6.84 (48.45190d) Equinox: J2000		V=9.2 surf(V) = 26.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N185-short-F814W-1	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1			44.0 Secs [==>]	[1]
	2	N185-F814W-2	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG -0.2537, -0.0334	Pattern 2-2 (2)	1200.0 Secs [==>1114.0 Secs (Pattern 1)] [==>1114.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]



Proposal 10794 - Visit 28 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:27 GMT 2006

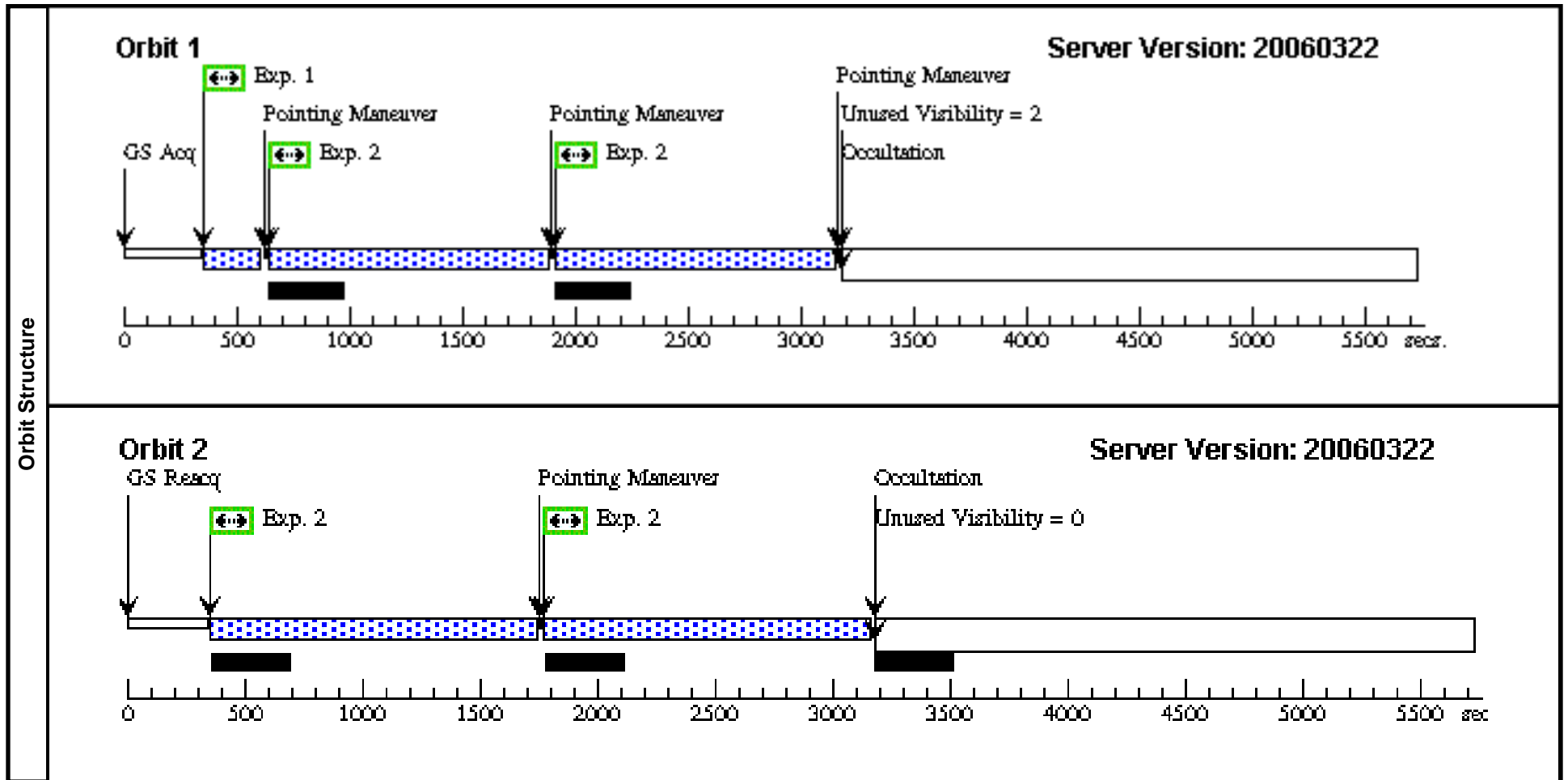
Visit	Proposal 10794, Visit 28 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 19										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(2)		Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false						(2)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes		Miscellaneous			
	(3)	NGC-0185A	RA: 00 39 11.2262 (9.7967758d) Dec: +48 27 6.84 (48.45190d) Equinox: J2000				V=9.2 surf(V) = 26.0	Reference Frame: NED			
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	N185-short-F814W-2	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG 0.1235,0 .0841		44.0 Secs [==>]		[1]
	2	N185-F814W-3	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG -0.0245, 0.2351	Pattern 2-2 (2)	1200.0 Secs [==>1114.0 Secs (Pattern 1)] [==>1114.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]		[1] [2]



Proposal 10794 - Visit 29 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:28 GMT 2006

Visit	Proposal 10794, Visit 29 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 19									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(2)		Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false						(2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-0185A	RA: 00 39 11.2262 (9.7967758d) Dec: +48 27 6.84 (48.45190d) Equinox: J2000		V=9.2 surf(V) = 26.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N185-short-F814W-3	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG 0.247,2.984		44.0 Secs [==>]	[1]
	2	N185-F814W-4	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG 0.2603,2.9731	Pattern 2-2 (2)	1200.0 Secs [==>1114.0 Secs (Pattern 1)] [==>1114.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]



Proposal 10794 - Visit 30 - Direct Age Determination of the dE Galaxies NGC 147 and NGC 185

Wed Aug 16 01:05:28 GMT 2006

Visit		Proposal 10794, Visit 30 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 19								
Patterns	#	Primary Pattern			Secondary Pattern		Exposures			
	(2)	Pattern Type=BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.3 Angle Between Sides=80.8 Center Pattern=false				(2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-0185A	RA: 00 39 11.2262 (9.7967758d) Dec: +48 27 6.84 (48.45190d) Equinox: J2000		V=9.2 surf(V) = 26.0	Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N185-short-F814W-4	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG 0.3705,3 .0681		44.0 Secs [==>]	[1]
	2	N185-F814W-5	(3) NGC-0185A	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO; GAIN=1	POS TARG 0.4802,3 .0007	Pattern 2-2 (2)	1200.0 Secs [==>1114.0 Secs (Pattern 1)] [==>1114.0 Secs (Pattern 2)] [==>1268.0 Secs (Pattern 3)] [==>1268.0 Secs (Pattern 4)]	[1] [2]

