



## 12213 - The Stellar Halo Profiles of Massive Disk Galaxies

Cycle: 18, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

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### VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) NGC0253-HALOE1 ANY	ACS/WFC WFC3/UVIS	1	20-Oct-2010 21:11:23.0	yes
02	(2) NGC0253-HALOE2 ANY	ACS/WFC WFC3/UVIS	1	20-Oct-2010 21:11:30.0	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>
03	(3) NGC0253-HALOE3 ANY	ACS/WFC WFC3/UVIS	1	20-Oct-2010 21:11:35.0	yes
04	(4) NGC0253-HALOE4 ANY	ACS/WFC WFC3/UVIS	1	20-Oct-2010 21:11:42.0	yes
11	(11) NGC0891-HALOE1 ANY	ACS/WFC WFC3/UVIS	3	20-Oct-2010 21:11:54.0	yes
12	(12) NGC0891-HALOE2 ANY	ACS/WFC WFC3/UVIS	3	20-Oct-2010 21:12:09.0	yes
21	(21) NGC4565-HALOE1 ANY	ACS/WFC WFC3/UVIS	2	20-Oct-2010 21:12:17.0	yes
22	(21) NGC4565-HALOE1 ANY	ACS/WFC WFC3/UVIS	2	20-Oct-2010 21:12:22.0	yes
23	(21) NGC4565-HALOE1 ANY	ACS/WFC WFC3/UVIS	3	20-Oct-2010 21:12:28.0	yes
31	(31) NGC7814-HALOE1 ANY	ACS/WFC WFC3/UVIS	2	20-Oct-2010 21:12:33.0	yes
32	(31) NGC7814-HALOE1 ANY	ACS/WFC WFC3/UVIS	2	20-Oct-2010 21:12:37.0	yes
33	(31) NGC7814-HALOE1 ANY	ACS/WFC WFC3/UVIS	2	20-Oct-2010 21:12:42.0	yes
34	(31) NGC7814-HALOE1 ANY	ACS/WFC WFC3/UVIS	2	20-Oct-2010 21:12:46.0	yes

25 Total Orbits Used

### **ABSTRACT**

Stellar halos surrounding massive galaxies are of prime interest in hierarchical galaxy formation models: most of the halo is formed by the very early accretion of small, metal poor satellite galaxies each with their independent evolution history. As such, halos

contain the fossil remnants of the earliest star formation and accretion phases of a galaxy in formation. The resulting size, shape, age, and metallicity of stellar halos provide therefore a direct test of the basic ingredients (reionization, feedback from star formation, density fluctuation power spectrum) of hierarchical galaxy formation models.

In our GHOSTS survey we have sampled the principle axes of a sample of 11 nearby galaxies with  $V_{rot} > 100$  km/s. Our detection of resolved stellar halo populations  $\sim 1.5$  mag below the tip of the Red Giant Branch has revealed halos that extend as far as 30 kpc around the most massive galaxies in our sample. Those extended stellar halos seem more compact than current model predictions, they have unexpectedly high metallicity up to the last detected point, and have a luminosity that is more closely related to the bulge luminosity than to the galaxy mass. We propose to extend the light profiles of 4 massive galaxies with a range in bulge-to-disk ratio to the background limit at  $\sim 70$  kpc. This will enable us to:

- confirm the stellar halo shape (compactness) and assess with confidence any conflict with models using these very extended and accurate halo profile characterizations;
- establish whether stellar envelopes beyond 30 kpc are still morphologically connected to inner bulges, or whether a break occurs at larger radii revealing a distinct new component;
- determine whether every massive galaxy has an old, metal-poor halo at large radius like the Milky Way and M31; if not, constrain for the first time the range of stellar metallicity gradients in extended stellar halos.

## **OBSERVING DESCRIPTION**

To measure metallicities from the RGB colors, we need to reach 1.0 mag below the tip of the RGB, which occurs almost independent of metallicity at  $m_I = 4$  mag and with  $V_I \sim 1$ . We have used the ETC and our GHOSTS experience to calculate the required exposure times for optimal PSF fit photometry in Low Sky conditions, based on GHOSTS TRGB distances. Dithering between orbits, we will typically expose 800s and 1400s per orbit

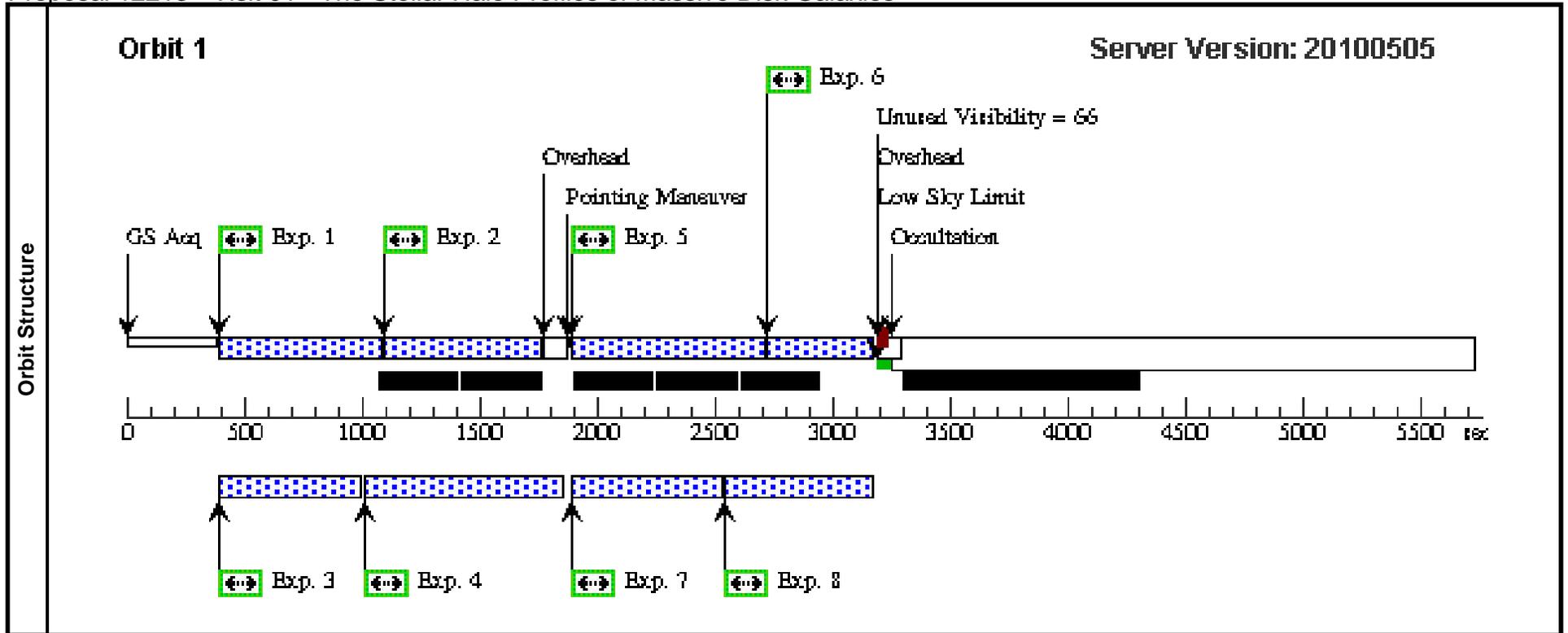
in F606W and F814W with WFC3, and 1100s and 1000s with ACS.

We use POSTARGS to do the dithering, as this gives us the largest flexibility to determine offsets and to pack the orbits efficiently with the ACS & WFC3 parallels. The POSTARGS also put the apertures outside the target position, but this is done on purpose such that the rotation point where the ACS and WFC3 parallel rotate around is in between the two cameras and the positional shift remains small for both cameras independent of the final ORIENT chosen.

Proposal 12213 (STScI Edit Number: 5, Created: Wednesday, October 20, 2010 8:12:50 PM EST) - Overview

Thu Oct 21 01:12:50 GMT 2010

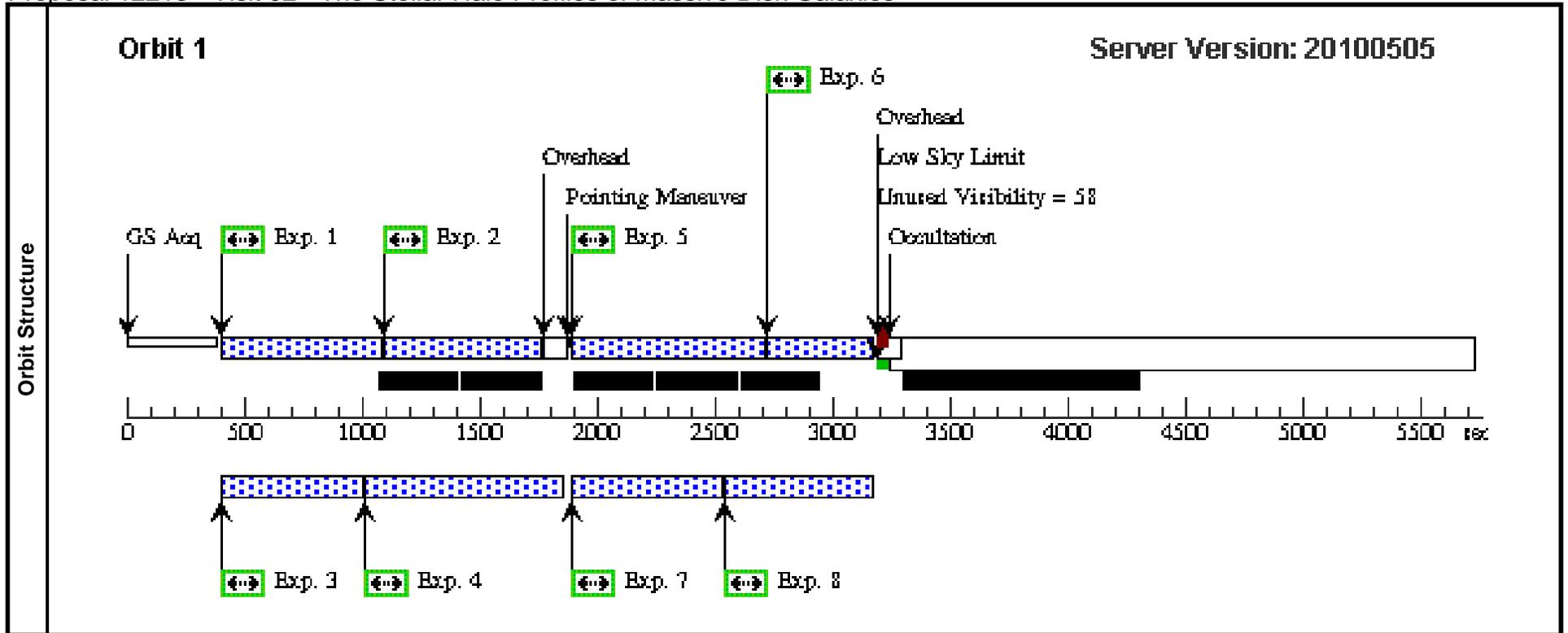
Visit	<b>Proposal 12213, Visit 01, scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 55.0D TO 110.0 D									
	(Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(1)	NGC0253-HALOE1	RA: 00 46 32.9458 (11.6372742d) Dec: -25 00 2.73 (-25.00076d) Equinox: J2000		V=(?) 26 I-mag	Reference Frame: ICRS			
<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		(1) NGC0253-HALOE1	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG -1.3692 204682661728,208.9 621597123066; LOW-SKY	Prime + Parallel Group up 1-4	540 Secs [==>]	[1]
	2		(1) NGC0253-HALOE1	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 1; LOW-SKY	Prime + Parallel Group up 1-4	645 Secs [==>]	[1]
	3		ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Group up 1-4	394 Secs [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Group up 1-4	666 Secs [==>]	[1]
	5		(1) NGC0253-HALOE1	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG 0.63077 95317338272,210.46 21597123066; LOW-SKY	Prime + Parallel Group up 5-8	679 Secs [==>]	[1]
	6		(1) NGC0253-HALOE1	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 5; LOW-SKY	Prime + Parallel Group up 5-8	431 Secs [==>]	[1]
	7		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Group up 5-8	516 Secs [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Group up 5-8	449 Secs [==>]	[1]



Proposal 12213 - Visit 01 - The Stellar Halo Profiles of Massive Disk Galaxies

Thu Oct 21 01:12:51 GMT 2010

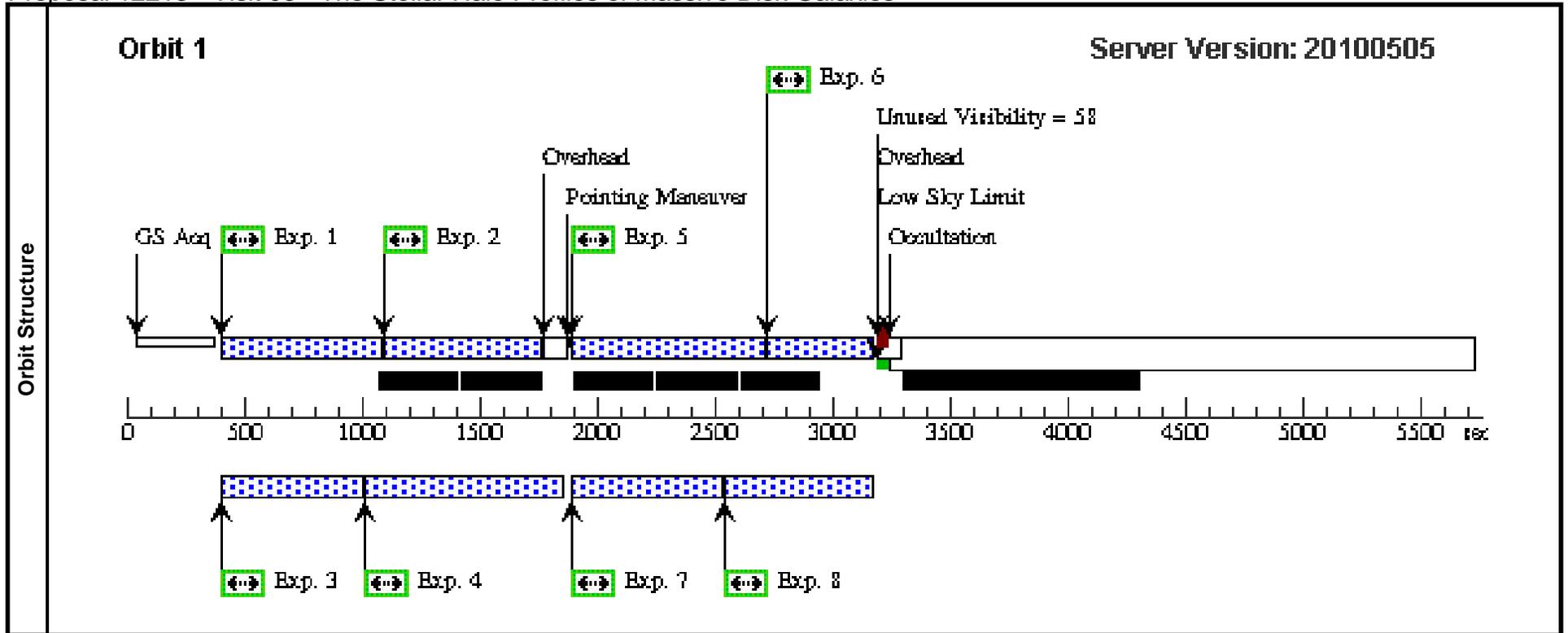
Visit	<b>Proposal 12213, Visit 02, scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 55.0D TO 110.0 D									
	(Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 02) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC0253-HALOE2	RA: 00 45 23.5168 (11.3479867d) Dec: -24 40 51.60 (-24.68100d) Equinox: J2000		V=(?) 26 I-mag	Reference Frame: ICRS				
<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		(2) NGC0253-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG -1.3692 204682661728,208.9 621597123066; LOW-SKY	Prime + Parallel Group up 1-4	539 Secs [==>]	[1]
	2		(2) NGC0253-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 1; LOW-SKY	Prime + Parallel Group up 1-4	645 Secs [==>]	[1]
	3		ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Group up 1-4	393 Secs [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Group up 1-4	666 Secs [==>]	[1]
	5		(2) NGC0253-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG 0.63077 95317338272,210.46 21597123066; LOW-SKY	Prime + Parallel Group up 5-8	679 Secs [==>]	[1]
	6		(2) NGC0253-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 5; LOW-SKY	Prime + Parallel Group up 5-8	431 Secs [==>]	[1]
	7		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Group up 5-8	516 Secs [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Group up 5-8	449 Secs [==>]	[1]



Proposal 12213 - Visit 02 - The Stellar Halo Profiles of Massive Disk Galaxies

Thu Oct 21 01:12:52 GMT 2010

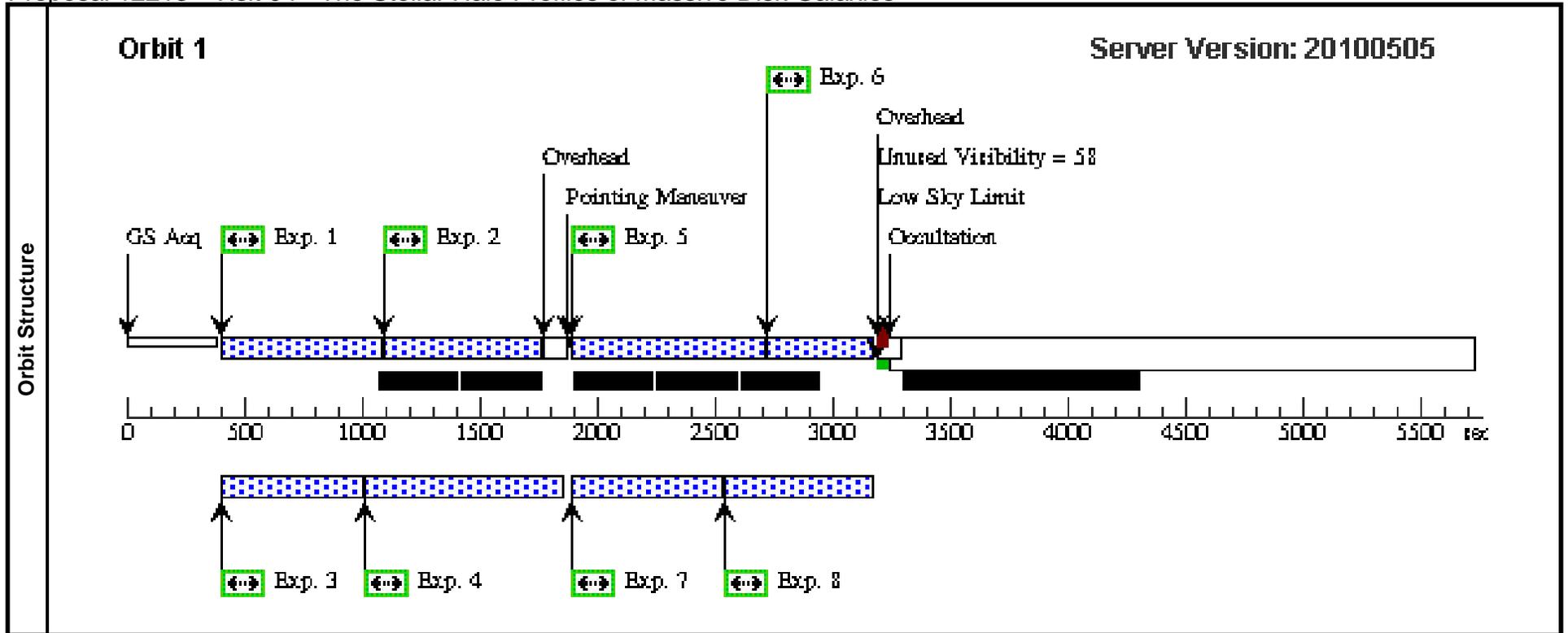
Visit	<b>Proposal 12213, Visit 03, scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 55.0D TO 110.0 D									
	(Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(3)	NGC0253-HALOE3	RA: 00 44 54.9886 (11.2291192d) Dec: -24 34 57.09 (-24.58252d) Equinox: J2000		V=(?) 26 I-mag	Reference Frame: ICRS			
	<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		(3) NGC0253-HAL OE3	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG -1.3692 204682661728,208.9 621597123066; LOW-SKY; GS ACQ SCENARI O SINGLE	Prime + Parallel Group up 1-4	539 Secs [==>]	[1]
	2		(3) NGC0253-HAL OE3	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 1; LOW-SKY	Prime + Parallel Group up 1-4	645 Secs [==>]	[1]
	3		ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Group up 1-4	393 Secs [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Group up 1-4	666 Secs [==>]	[1]
	5		(3) NGC0253-HAL OE3	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG 0.63077 95317338272,210.46 21597123066; LOW-SKY	Prime + Parallel Group up 5-8	679 Secs [==>]	[1]
	6		(3) NGC0253-HAL OE3	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 5; LOW-SKY	Prime + Parallel Group up 5-8	431 Secs [==>]	[1]
	7		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Group up 5-8	516 Secs [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Group up 5-8	449 Secs [==>]	[1]



Proposal 12213 - Visit 03 - The Stellar Halo Profiles of Massive Disk Galaxies

Thu Oct 21 01:12:53 GMT 2010

Visit	<b>Proposal 12213, Visit 04, scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 55.0D TO 110.0 D									
	(Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(4)	NGC0253-HALOE4	RA: 00 44 10.7033 (11.0445971d) Dec: -24 21 8.04 (-24.35223d) Equinox: J2000		V=(?) 26 I-mag	Reference Frame: ICRS			
<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		(4) NGC0253-HAL OE4	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG -1.3692 204682661728,208.9 621597123066; LOW-SKY; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group up 1-4	539 Secs [==>]	[1]
	2		(4) NGC0253-HAL OE4	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 1; LOW-SKY	Prime + Parallel Group up 1-4	645 Secs [==>]	[1]
	3		ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Group up 1-4	393 Secs [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Group up 1-4	666 Secs [==>]	[1]
	5		(4) NGC0253-HAL OE4	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG 0.63077 95317338272,210.46 21597123066; LOW-SKY	Prime + Parallel Group up 5-8	679 Secs [==>]	[1]
	6		(4) NGC0253-HAL OE4	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 5; LOW-SKY	Prime + Parallel Group up 5-8	431 Secs [==>]	[1]
	7		ANY	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Prime + Parallel Group up 5-8	516 Secs [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F606W	CR-SPLIT=NO		Prime + Parallel Group up 5-8	449 Secs [==>]	[1]



# Proposal 12213 - Visit 04 - The Stellar Halo Profiles of Massive Disk Galaxies

<b>Visit</b>	<b>Proposal 12213, Visit 11, scheduling</b> <span style="float: right;">Thu Oct 21 01:12:53 GMT 2010</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 50D TO 74 D												
	<b>Diagnostics</b>	(Visit 11) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE											
(Visit 11) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE													
(Visit 11) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE													
(Visit 11) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE													
(Visit 11) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE													
(Visit 11) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE													
<b>Fixed Targets</b>	<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>(11)</td> <td>NGC0891-HALOE1</td> <td>RA: 02 23 18.6781 (35.8278254d) Dec: +42 17 49.50 (42.29708d) Equinox: J2000</td> <td></td> <td>V=(?) 26 I-mag</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(11)	NGC0891-HALOE1	RA: 02 23 18.6781 (35.8278254d) Dec: +42 17 49.50 (42.29708d) Equinox: J2000		V=(?) 26 I-mag	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(11)	NGC0891-HALOE1	RA: 02 23 18.6781 (35.8278254d) Dec: +42 17 49.50 (42.29708d) Equinox: J2000		V=(?) 26 I-mag	Reference Frame: ICRS								
<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i></p>													

Proposal 12213 - Visit 04 - The Stellar Halo Profiles of Massive Disk Galaxies

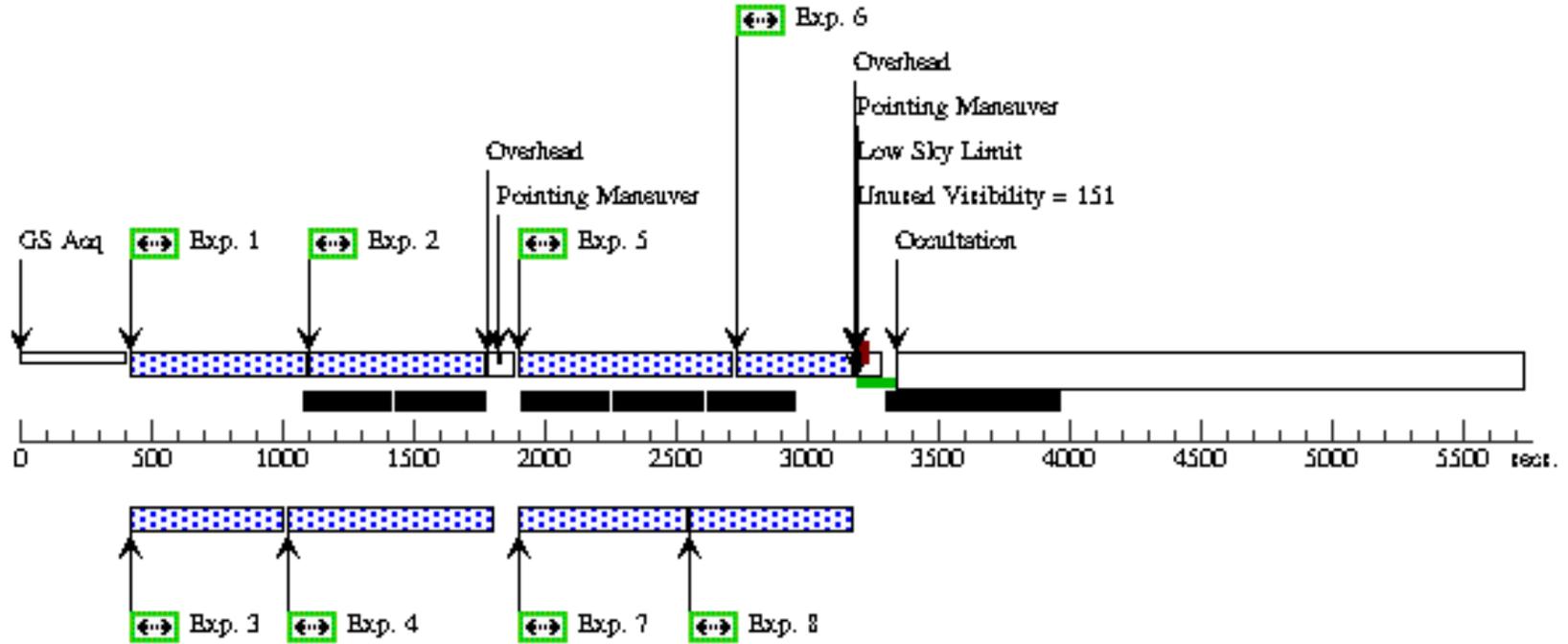
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures	1	WFC3-F606 W	(11) NGC0891-HAL OE1	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	POS TARG -19.830 805871313768,236.5 732326471626; LOW-SKY	Prime + Parallel Gro up 1-4	520 Secs [==>]	[1]
	2	WFC3-F814 W	(11) NGC0891-HAL OE1	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	SAME POS AS 1; LOW-SKY	Prime + Parallel Gro up 1-4	645 Secs [==>]	[1]
	3	ACS-F606 W	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Gro up 1-4	374 Secs [==>]	[1]
	4	ACS-F814 W	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 1-4	606 Secs [==>]	[1]
	5	WFC3-F814 W	(11) NGC0891-HAL OE1	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG -19.617 805871313767,236.4 102326471626; LOW-SKY	Prime + Parallel Gro up 5-8	699 Secs [==>]	[1]
	6	WFC3-F606 W	(11) NGC0891-HAL OE1	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 5; LOW-SKY	Prime + Parallel Gro up 5-8	422 Secs [==>]	[1]
	7	ACS-F814 W	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 5-8	516 Secs [==>]	[1]
	8	ACS-F606 W	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Gro up 5-8	440 Secs [==>]	[1]
	9	WFC3-F606 W	(11) NGC0891-HAL OE1	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	POS TARG -19.404 80587131377,236.35 32326471626; LOW-SKY	Prime + Parallel Gro up 9-12	552 Secs [==>]	[2]
	10	WFC3-F814 W	(11) NGC0891-HAL OE1	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	SAME POS AS 9; LOW-SKY	Prime + Parallel Gro up 9-12	645 Secs [==>]	[2]
	11	ACS-F606 W	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Gro up 9-12	406 Secs [==>]	[2]
	12	ACS-F814 W	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 9-12	606 Secs [==>]	[2]
	13	WFC3-F814 W	(11) NGC0891-HAL OE1	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG -19.191 80587131377,236.93 62326471626; LOW-SKY	Prime + Parallel Gro up 13-16	699 Secs [==>]	[2]
	14	WFC3-F606 W	(11) NGC0891-HAL OE1	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 13; LOW-SKY	Prime + Parallel Gro up 13-16	422 Secs [==>]	[2]
	15	ACS-F814 W	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 13-16	516 Secs [==>]	[2]
	16	ACS-F606 W	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Gro up 13-16	440 Secs [==>]	[2]
	17	WFC3-F606 W	(11) NGC0891-HAL OE1	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	POS TARG -18.960 805871313767,237.2 232326471626; LOW-SKY	Prime + Parallel Gro up 17-20	552 Secs [==>]	[3]
	18	WFC3-F814 W	(11) NGC0891-HAL OE1	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	SAME POS AS 17; LOW-SKY	Prime + Parallel Gro up 17-20	645 Secs [==>]	[3]

Proposal 12213 - Visit 04 - The Stellar Halo Profiles of Massive Disk Galaxies

19	ACS-F606 W	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group up 17-20	406 Secs	[3]
20	ACS-F814 W	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group up 17-20	606 Secs	[3]
21	WFC3-F814 W	(11) NGC0891-HAL OE1	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG -18.740 805871313768,237.1 532326471626; LOW-SKY	Prime + Parallel Group up 21-24	699 Secs	[3]
22	WFC3-F606 W	(11) NGC0891-HAL OE1	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 21; LOW-SKY	Prime + Parallel Group up 21-24	422 Secs	[3]
23	ACS-F814 W	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group up 21-24	516 Secs	[3]
24	ACS-F606 W	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group up 21-24	440 Secs	[3]

Orbit 1

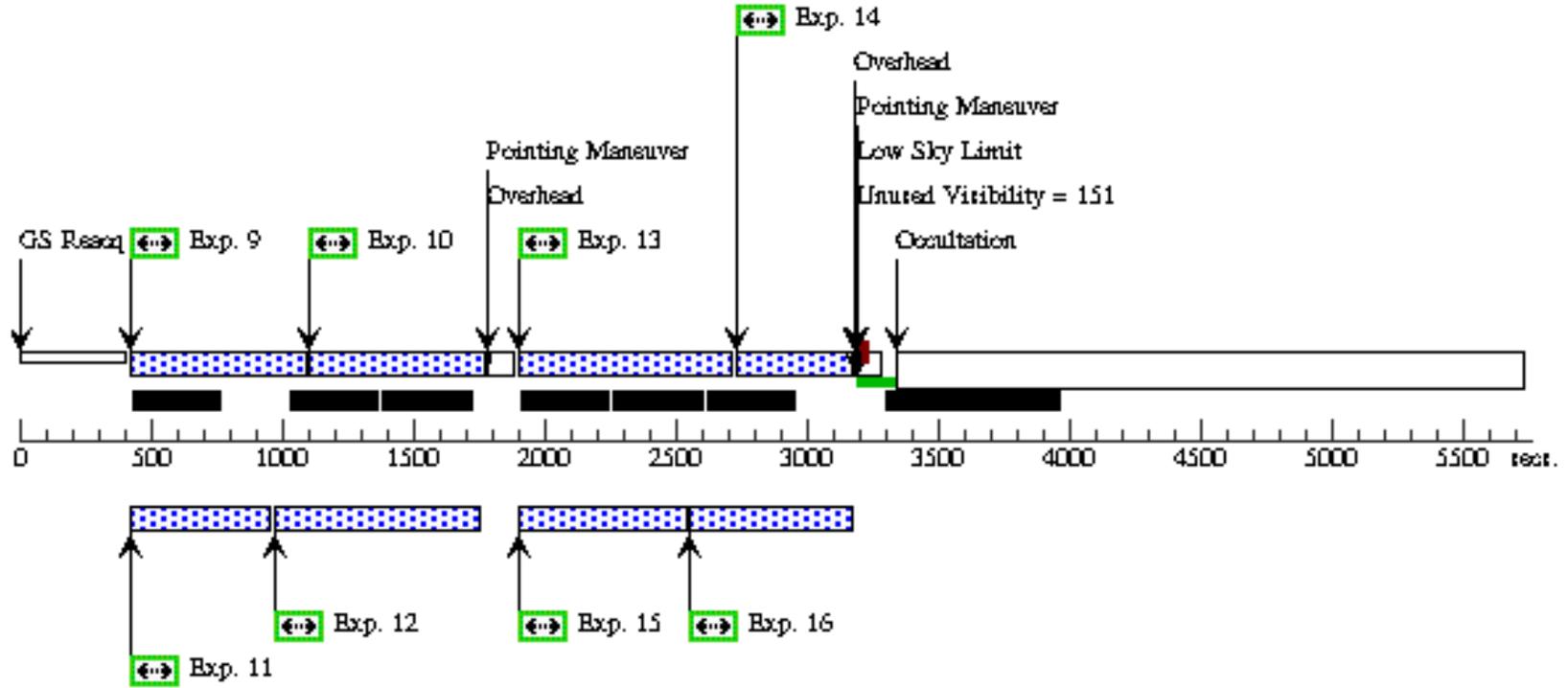
Server Version: 20100505

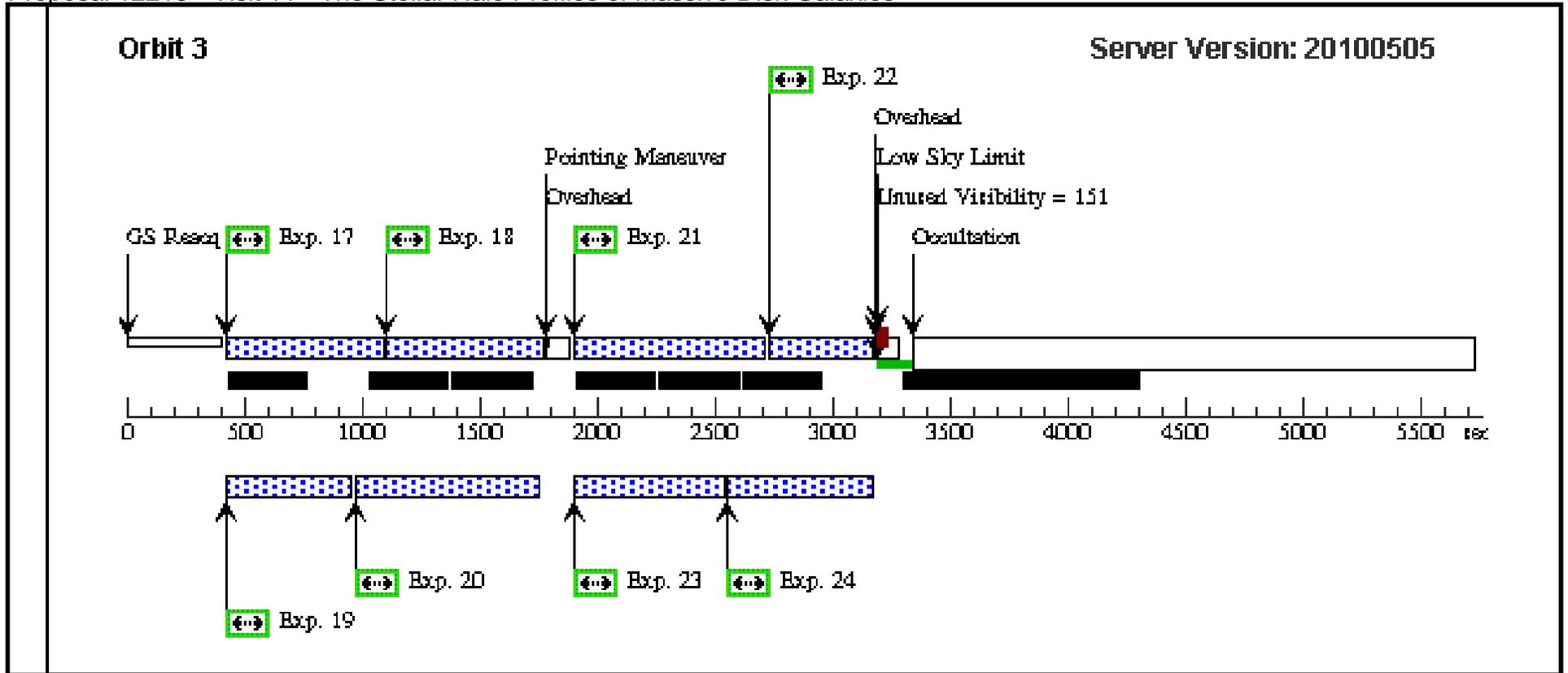


Orbit Structure

Orbit 2

Server Version: 20100505





# Proposal 12213 - Visit 11 - The Stellar Halo Profiles of Massive Disk Galaxies

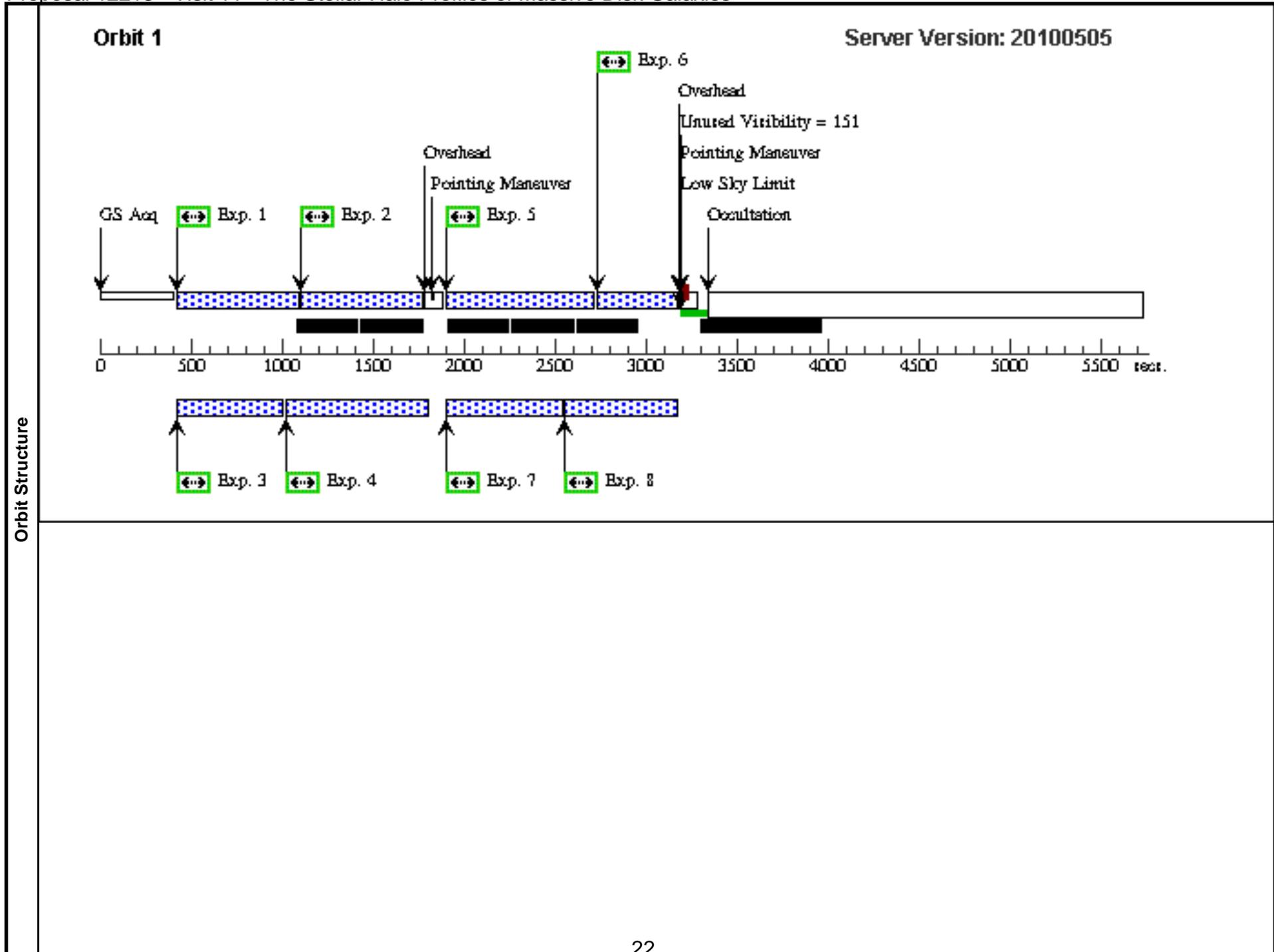
<b>Visit</b>	<b>Proposal 12213, Visit 12, scheduling</b> <span style="float: right;">Thu Oct 21 01:12:55 GMT 2010</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 50D TO 74 D												
	<b>Diagnostics</b>	(Visit 12) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE											
(Visit 12) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE													
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(Visit 12) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE													
(Visit 12) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE													
<b>Fixed Targets</b>	<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>(12)</td> <td>NGC0891-HALOE2</td> <td>RA: 02 24 18.4119 (36.0767163d) Dec: +42 13 40.07 (42.22780d) Equinox: J2000</td> <td></td> <td>V=(?) 26 I-mag</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(12)	NGC0891-HALOE2	RA: 02 24 18.4119 (36.0767163d) Dec: +42 13 40.07 (42.22780d) Equinox: J2000		V=(?) 26 I-mag	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(12)	NGC0891-HALOE2	RA: 02 24 18.4119 (36.0767163d) Dec: +42 13 40.07 (42.22780d) Equinox: J2000		V=(?) 26 I-mag	Reference Frame: ICRS								
<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i></p>													

Proposal 12213 - Visit 11 - The Stellar Halo Profiles of Massive Disk Galaxies

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures	1	WFC3-F606 W	(12) NGC0891-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	POS TARG -19.830 805871313768,236.5 732326471626; LOW-SKY	Prime + Parallel Gro up 1-4	520 Secs [==>]	[1]
	2	WFC3-F814 W	(12) NGC0891-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	SAME POS AS 1; LOW-SKY	Prime + Parallel Gro up 1-4	645 Secs [==>]	[1]
	3	ACS-F606 W	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Gro up 1-4	374 Secs [==>]	[1]
	4	ACS-F814 W	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 1-4	606 Secs [==>]	[1]
	5	WFC3-F814 W	(12) NGC0891-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG -19.617 805871313767,236.4 102326471626; LOW-SKY	Prime + Parallel Gro up 5-8	699 Secs [==>]	[1]
	6	WFC3-F606 W	(12) NGC0891-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 5; LOW-SKY	Prime + Parallel Gro up 5-8	422 Secs [==>]	[1]
	7	ACS-F814 W	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 5-8	516 Secs [==>]	[1]
	8	ACS-F606 W	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Gro up 5-8	440 Secs [==>]	[1]
	9	WFC3-F606 W	(12) NGC0891-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	POS TARG -19.404 80587131377,236.35 32326471626; LOW-SKY	Prime + Parallel Gro up 9-12	552 Secs [==>]	[2]
	10	WFC3-F814 W	(12) NGC0891-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	SAME POS AS 9; LOW-SKY	Prime + Parallel Gro up 9-12	645 Secs [==>]	[2]
	11	ACS-F606 W	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Gro up 9-12	406 Secs [==>]	[2]
	12	ACS-F814 W	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 9-12	606 Secs [==>]	[2]
	13	WFC3-F814 W	(12) NGC0891-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG -19.191 80587131377,236.93 62326471626; LOW-SKY	Prime + Parallel Gro up 13-16	699 Secs [==>]	[2]
	14	WFC3-F606 W	(12) NGC0891-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 13; LOW-SKY	Prime + Parallel Gro up 13-16	422 Secs [==>]	[2]
	15	ACS-F814 W	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 13-16	516 Secs [==>]	[2]
	16	ACS-F606 W	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Gro up 13-16	440 Secs [==>]	[2]
	17	WFC3-F606 W	(12) NGC0891-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	POS TARG -18.960 805871313767,237.2 232326471626; LOW-SKY	Prime + Parallel Gro up 17-20	552 Secs [==>]	[3]
	18	WFC3-F814 W	(12) NGC0891-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	SAME POS AS 17; LOW-SKY	Prime + Parallel Gro up 17-20	645 Secs [==>]	[3]

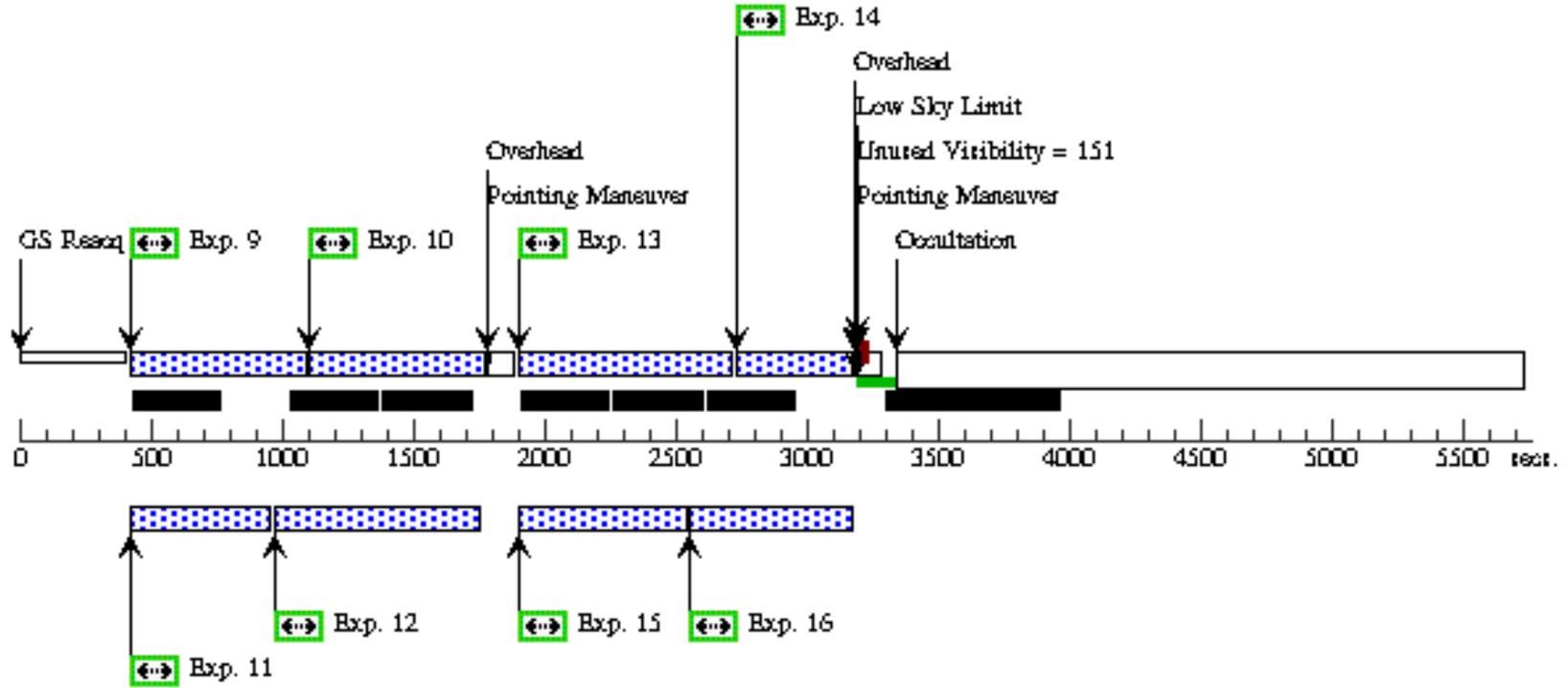
Proposal 12213 - Visit 11 - The Stellar Halo Profiles of Massive Disk Galaxies

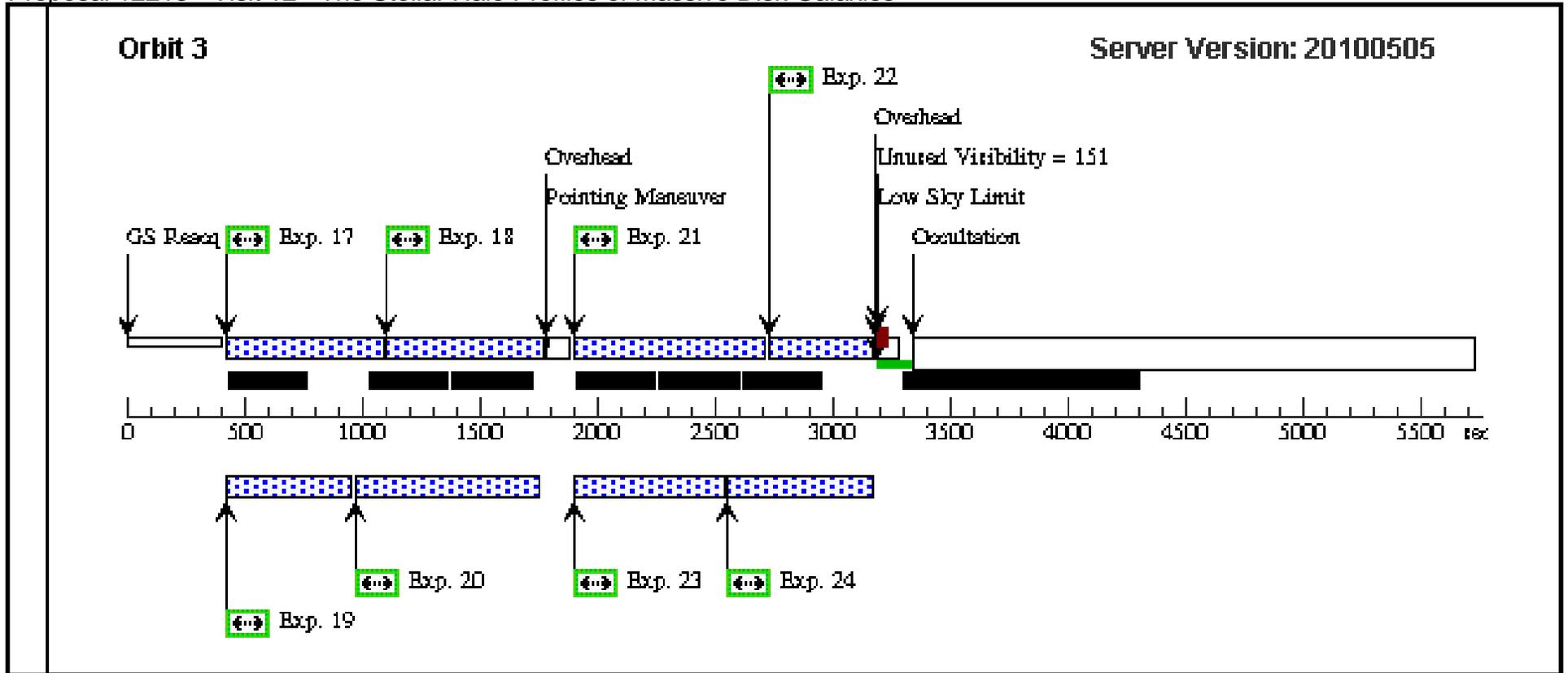
19	ACS-F606 W	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group up 17-20	406 Secs	[3]
20	ACS-F814 W	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group up 17-20	606 Secs	[3]
21	WFC3-F814 W	(12) NGC0891-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO	POS TARG -18.740 805871313768,237.1 532326471626; LOW-SKY	Prime + Parallel Group up 21-24	699 Secs	[3]
22	WFC3-F606 W	(12) NGC0891-HAL OE2	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	CR-SPLIT=NO	SAME POS AS 21; LOW-SKY	Prime + Parallel Group up 21-24	422 Secs	[3]
23	ACS-F814 W	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group up 21-24	516 Secs	[3]
24	ACS-F606 W	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group up 21-24	440 Secs	[3]



Orbit 2

Server Version: 20100505

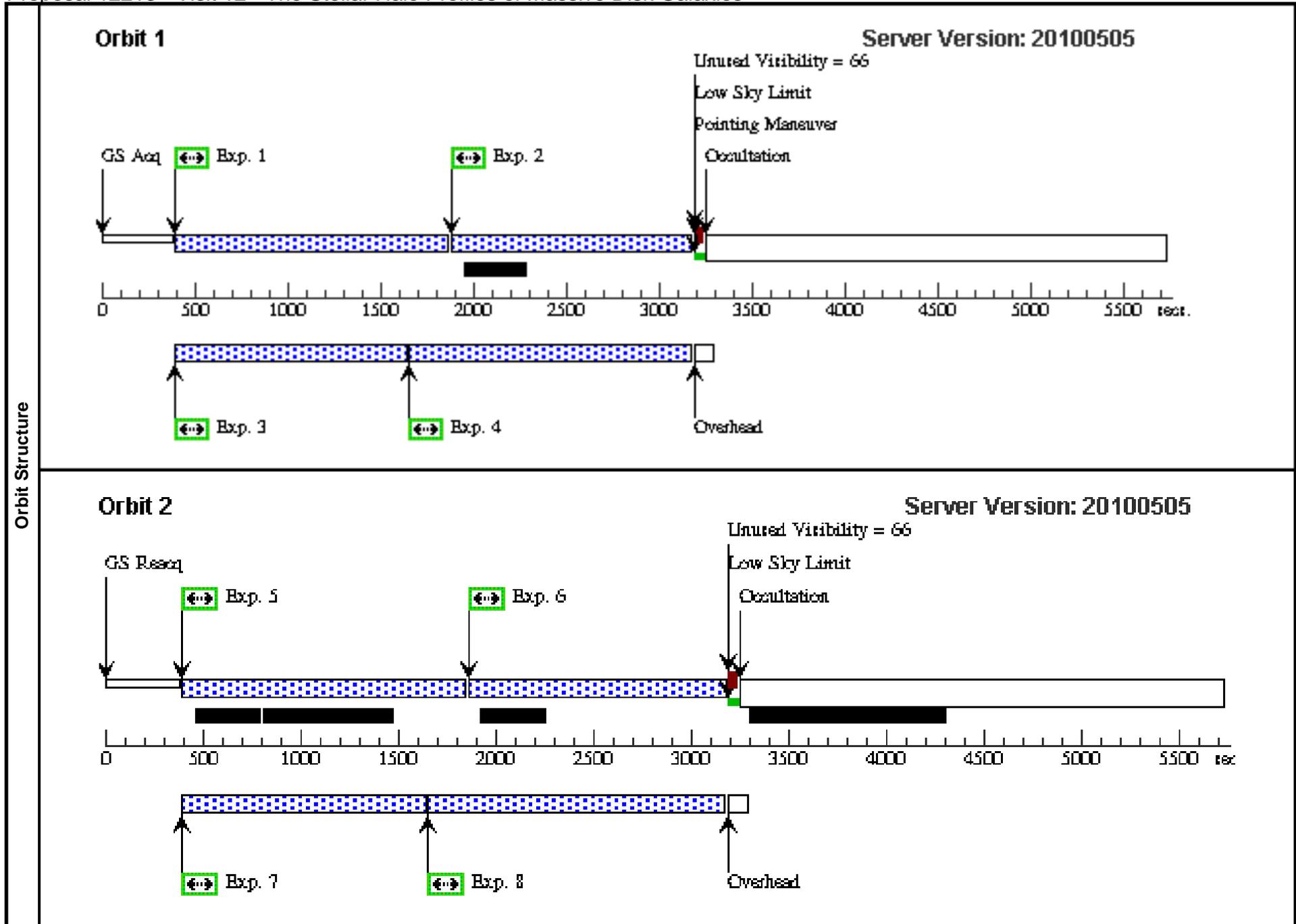




Proposal 12213 - Visit 12 - The Stellar Halo Profiles of Massive Disk Galaxies

Thu Oct 21 01:12:57 GMT 2010

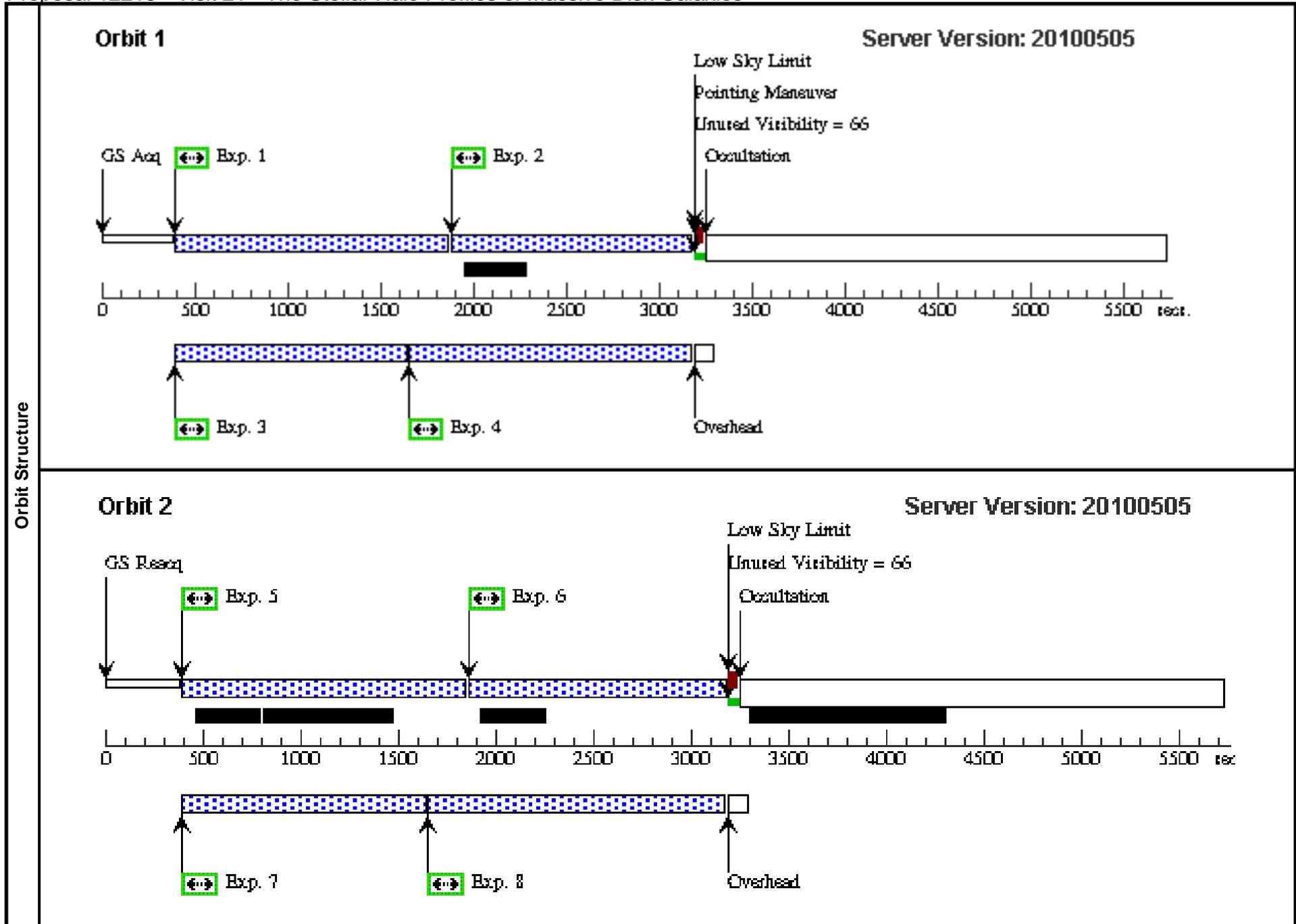
<b>Visit</b>	<b>Proposal 12213, Visit 21, scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 157D TO 190 D <i>Comments: First visit NGC4565</i> <i>POSTARGS 0 0, 2.5 1.5</i>									
	(Visit 21) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 21) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(21)	NGC4565-HALOE1	RA: 12 37 7.4608 (189.2810867d) Dec: +26 09 20.30 (26.15564d) Equinox: J2000		V=(?) 26 I-mag	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(21) NGC4565-HAL OE1	ACS/WFC, ACCUM, WFC	F606W		POS TARG -117.5,15; LOW-SKY	Prime + Parallel Group 1-4	1269 Secs [==>]	[1]
	2		(21) NGC4565-HAL OE1	ACS/WFC, ACCUM, WFC	F814W		SAME POS AS 1; LOW-SKY	Prime + Parallel Group 1-4	1110 Secs [==>]	[1]
	3		ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 1-4	1100 Secs [==>]	[1]
	4		ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 1-4	1497 Secs [==>]	[1]
	5		(21) NGC4565-HAL OE1	ACS/WFC, ACCUM, WFC	F606W		POS TARG -115.,116.5; LOW-SKY	Prime + Parallel Group 5-8	1269 Secs [==>]	[2]
	6		(21) NGC4565-HAL OE1	ACS/WFC, ACCUM, WFC	F814W		SAME POS AS 5; LOW-SKY	Prime + Parallel Group 5-8	1137 Secs [==>]	[2]
	7		ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 5-8	1109 Secs [==>]	[2]
	8		ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 5-8	1497 Secs [==>]	[2]



Proposal 12213 - Visit 21 - The Stellar Halo Profiles of Massive Disk Galaxies

Thu Oct 21 01:12:57 GMT 2010

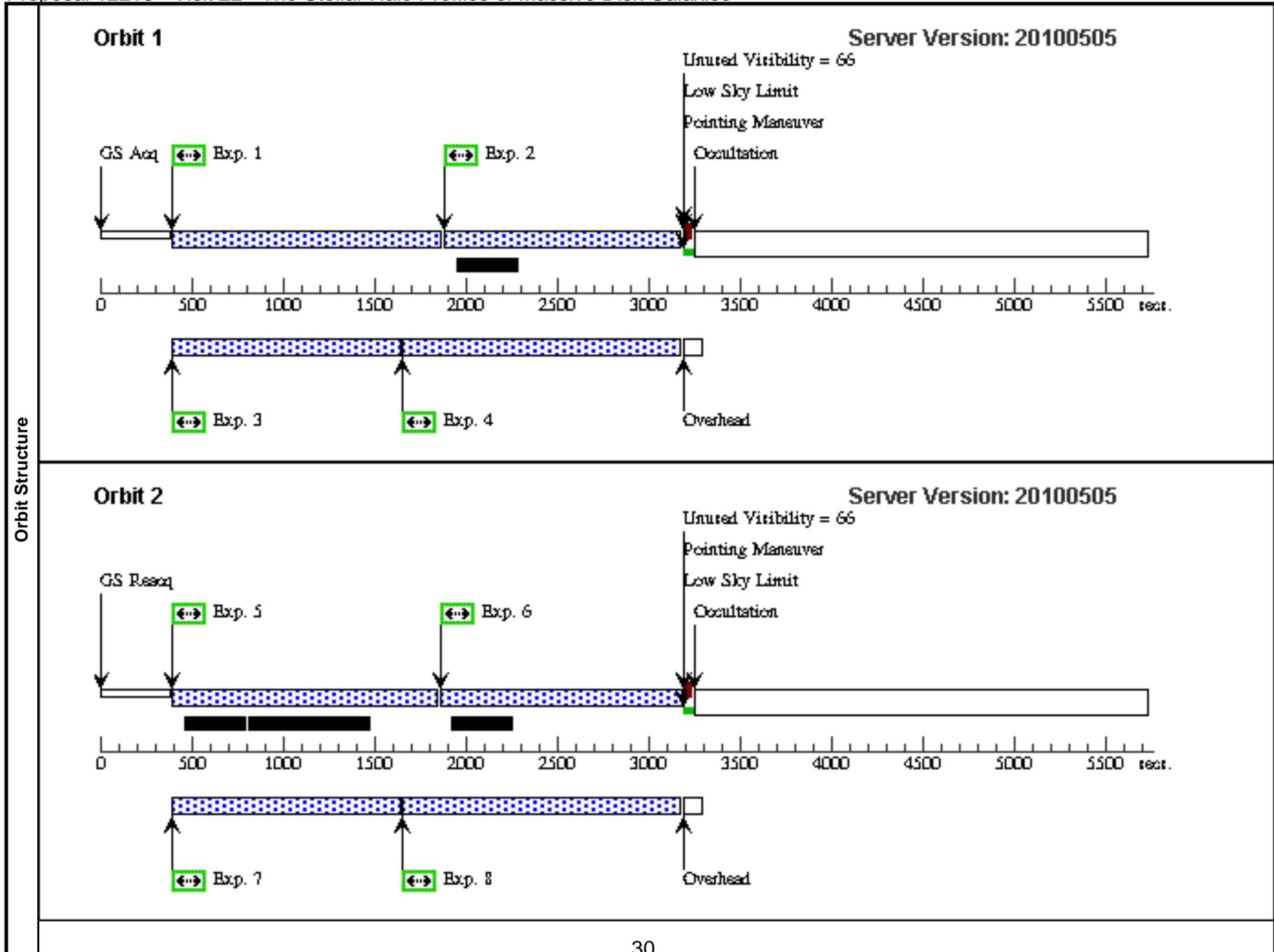
<b>Visit</b>	<b>Proposal 12213, Visit 22, scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: SAME ORIENT AS 21 <i>Comments: Second visit NGC4565</i> <i>POSTARGS 2.25 0.05, 0.25 1.5</i>									
	(Visit 22) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 22) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(21)	NGC4565-HALOE1	RA: 12 37 7.4608 (189.2810867d) Dec: +26 09 20.30 (26.15564d) Equinox: J2000		V=(?) 26 I-mag	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(21) NGC4565-HAL OE1	ACS/WFC, ACCUM, WFC	F606W		POS TARG -115.75, 115.05; LOW-SKY	Prime + Parallel Group 1-4	1269 Secs [==>]	[1]
	2		(21) NGC4565-HAL OE1	ACS/WFC, ACCUM, WFC	F814W		SAME POS AS 1; LOW-SKY	Prime + Parallel Group 1-4	1110 Secs [==>]	[1]
	3		ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 1-4	1100 Secs [==>]	[1]
	4		ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 1-4	1497 Secs [==>]	[1]
	5		(21) NGC4565-HAL OE1	ACS/WFC, ACCUM, WFC	F606W		POS TARG -117.25, 115.25; LOW-SKY	Prime + Parallel Group 5-8	1269 Secs [==>]	[2]
	6		(21) NGC4565-HAL OE1	ACS/WFC, ACCUM, WFC	F814W		SAME POS AS 5; LOW-SKY	Prime + Parallel Group 5-8	1137 Secs [==>]	[2]
	7		ANY	WFC3/UVIS, ACCUM, UVIS	F606W			Prime + Parallel Group 5-8	1109 Secs [==>]	[2]
	8		ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group 5-8	1497 Secs [==>]	[2]



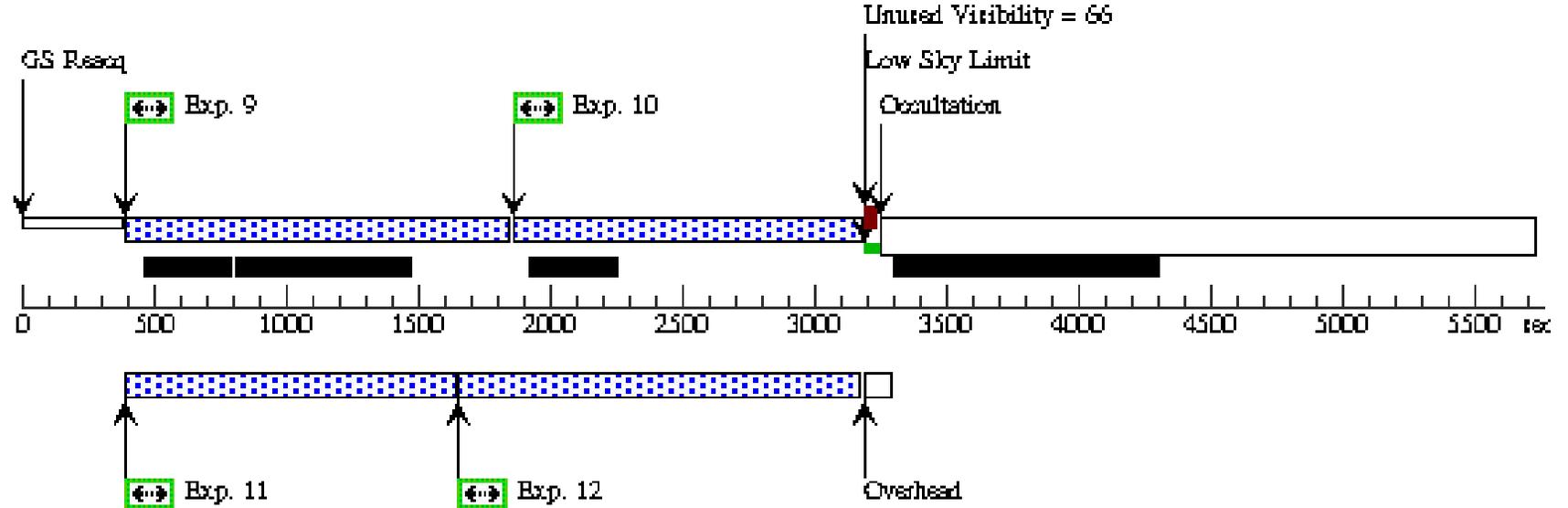
Proposal 12213 - Visit 22 - The Stellar Halo Profiles of Massive Disk Galaxies

Thu Oct 21 01:12:58 GMT 2010

<b>Visit</b>	<b>Proposal 12213, Visit 23, scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: SAME ORIENT AS 21 Comments: Third visit NGC4565 POSTARGS 1.0 0.53, 1.57 1.25, 2.03 0.77																																																																																																																																							
	(Visit 23) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 23) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 23) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE																																																																																																																																							
<b>Diagnosics</b>																																																																																																																																								
<b>Fixed Targets</b>	<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>(21)</td> <td>NGC4565-HALOE1</td> <td>RA: 12 37 7.4608 (189.2810867d) Dec: +26 09 20.30 (26.15564d) Equinox: J2000</td> <td></td> <td>V=(?) 26 I-mag</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(21)	NGC4565-HALOE1	RA: 12 37 7.4608 (189.2810867d) Dec: +26 09 20.30 (26.15564d) Equinox: J2000		V=(?) 26 I-mag	Reference Frame: ICRS	Comments: This object was generated by the targetselector and retrieved from the NED database.																																																																																																																										
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(21)	NGC4565-HALOE1	RA: 12 37 7.4608 (189.2810867d) Dec: +26 09 20.30 (26.15564d) Equinox: J2000		V=(?) 26 I-mag	Reference Frame: ICRS																																																																																																																																			
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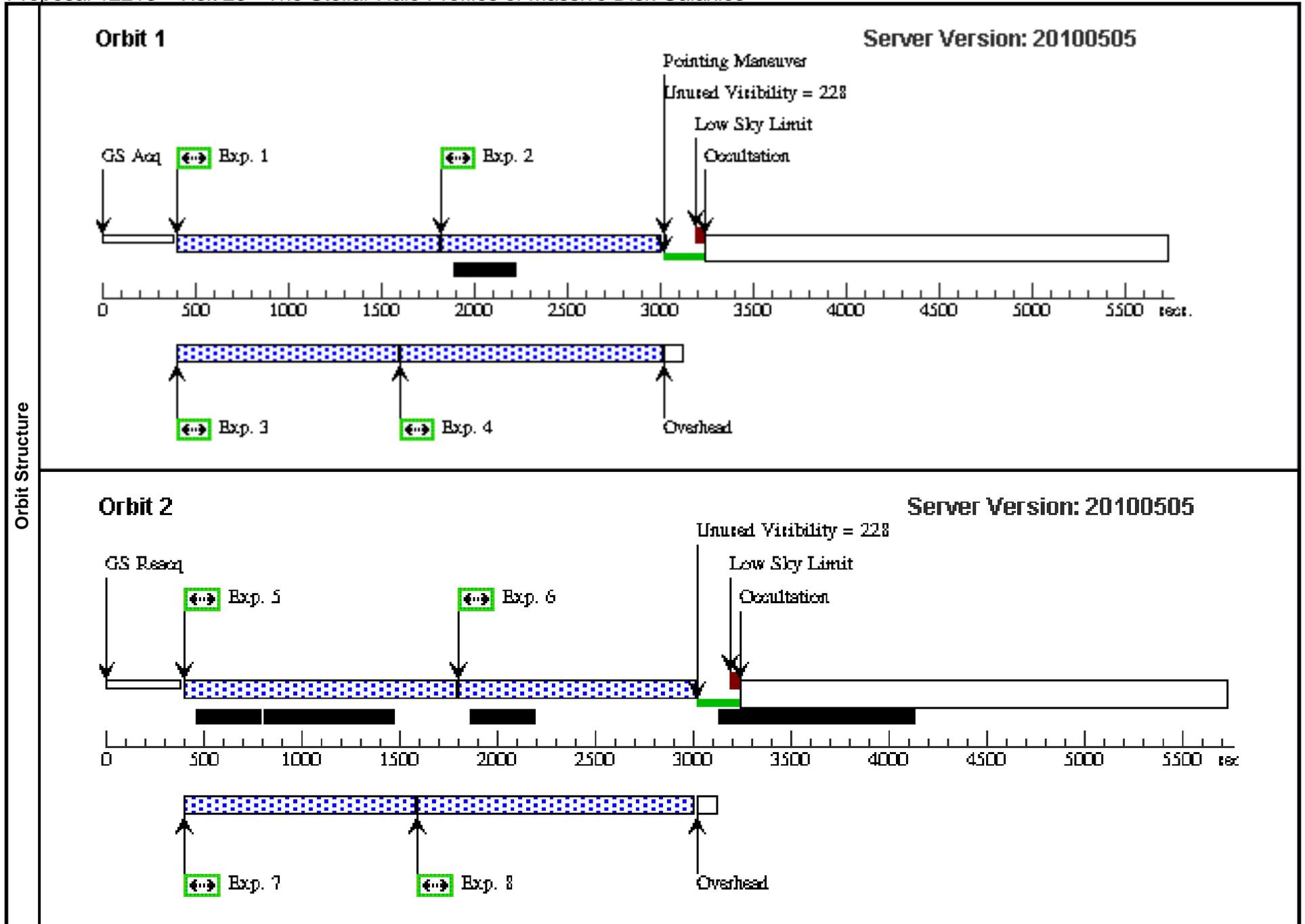
Orbit 3



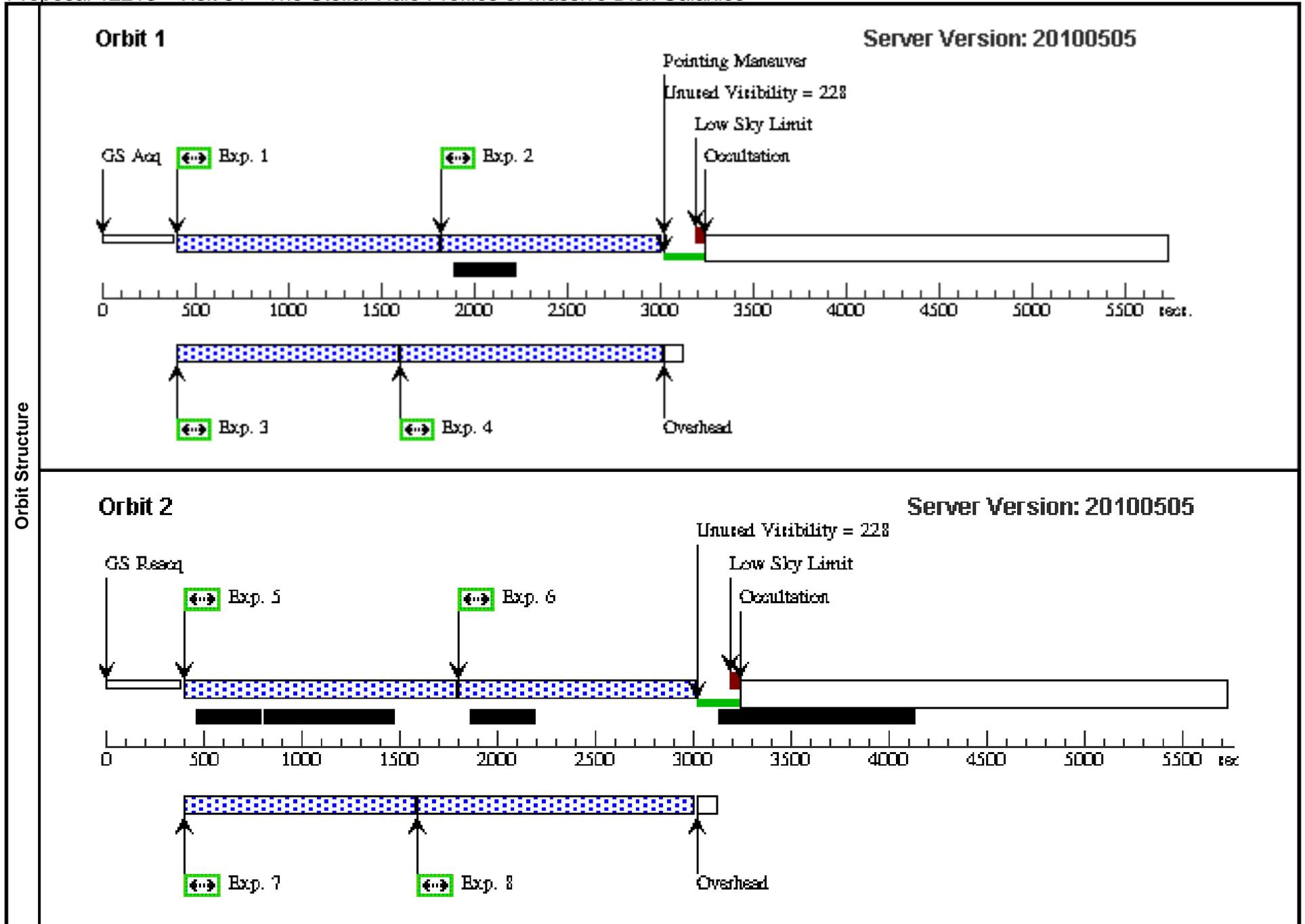
Proposal 12213 - Visit 23 - The Stellar Halo Profiles of Massive Disk Galaxies

Thu Oct 21 01:12:58 GMT 2010

Visit	<b>Proposal 12213, Visit 31, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 160D TO 185 D Comments: First visit NGC7814 POSTARGS 0 0, 2.5 1.5																						
	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>(31)</td> <td>NGC7814-HALOE1</td> <td>RA: 00 02 35.6306 (.6484608d) Dec: +15 59 0.61 (15.98350d) Equinox: J2000</td> <td></td> <td>V=(?) 26 I-mag</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6">Comments: This object was generated by the targetselector and retrieved from the NED database.</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(31)	NGC7814-HALOE1	RA: 00 02 35.6306 (.6484608d) Dec: +15 59 0.61 (15.98350d) Equinox: J2000		V=(?) 26 I-mag	Reference Frame: ICRS	Comments: This object was generated by the targetselector and retrieved from the NED database.				
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	1		(31) NGC7814-HAL OE1	ACS/WFC, ACCUM, WFC	F606W		POS TARG -44.478 799907305074,38.79 0180197804816; LOW-SKY	Prime + Parallel Group up 1-4	1207 Secs [==>]	[1]													
	2		(31) NGC7814-HAL OE1	ACS/WFC, ACCUM, WFC	F814W		SAME POS AS 1; LOW-SKY	Prime + Parallel Group up 1-4	1000 Secs [==>]	[1]													
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	5		(31) NGC7814-HAL OE1	ACS/WFC, ACCUM, WFC	F606W		POS TARG -44.248 496052459586,39.37 913907873484; LOW-SKY	Prime + Parallel Group up 5-8	1207 Secs [==>]	[2]													
	6		(31) NGC7814-HAL OE1	ACS/WFC, ACCUM, WFC	F814W		SAME POS AS 5; LOW-SKY	Prime + Parallel Group up 5-8	1027 Secs [==>]	[2]													
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	8		ANY	WFC3/UVIS, ACCUM, UVIS	F814W			Prime + Parallel Group up 5-8	1387 Secs [==>]	[2]													







Proposal 12213 - Visit 32 - The Stellar Halo Profiles of Massive Disk Galaxies

Thu Oct 21 01:12:59 GMT 2010

Visit	<b>Proposal 12213, Visit 33, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC, WFC3/UVIS Special Requirements: SAME ORIENT AS 31 Comments: Third visit NGC7814 POSTARGS 1.0 0.53, 1.57 1.25																						
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