



## 14234 - The Lowest Luminosity Star-Forming Galaxy

Cycle: 23, 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	(6) ERIDANUS-II ANY	ACS/WFC WFC3/UVIS	2	24-Jul-2015 22:50:04.0	yes
02	(6) ERIDANUS-II ANY	ACS/WFC WFC3/UVIS	2	24-Jul-2015 22:50:06.0	yes
03	(6) ERIDANUS-II ANY	ACS/WFC WFC3/UVIS	2	24-Jul-2015 22:50:08.0	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>
04	(6) ERIDANUS-II ANY	ACS/WFC WFC3/UVIS	2	24-Jul-2015 22:50:10.0	yes
05	(6) ERIDANUS-II ANY	ACS/WFC WFC3/UVIS	2	24-Jul-2015 22:50:12.0	yes
06	(6) ERIDANUS-II ANY	ACS/WFC WFC3/UVIS	1	24-Jul-2015 22:50:13.0	yes
07	(6) ERIDANUS-II ANY	ACS/WFC WFC3/UVIS	2	24-Jul-2015 22:50:14.0	yes

13 Total Orbits Used

## **ABSTRACT**

We propose ACS/WFC imaging of the newly discovered Milky Way satellite galaxy Eridanus II. Eri II is unique among nearby dwarfs in that it appears to contain young stars but has no detected gas, and it is located just beyond the transition radius around the Milky Way inside of which star formation is rapidly quenched. With a luminosity of only 54000 Lsun, Eri II is likely the lowest luminosity star-forming galaxy yet found, surpassing Leo T. This combination of properties makes Eri II a key target for studying the mechanisms by which low-mass galaxies are quenched, and it will provide new insight into why some dwarfs are able to continue forming stars for a Hubble time while other seemingly similar objects are not. We will use a deep HST color-magnitude diagram to derive the star formation history of the galaxy, confirming the existence of its young population, measuring the age of its oldest stars, and determining whether its star formation has been continuous or episodic.

## **OBSERVING DESCRIPTION**

This program will obtain straightforward deep imaging with one ACS tile on the galaxy and one parallel WFC3 tile just outside the galaxy. The individual exposures will be dithered to resample the PSF, reduce detector artifacts, and dither the gap.

The 4 2-orbit F814W visits each contain a 2x2 resampling of the PSF, with each visit stepping by 40% of the detector gap in ACS.

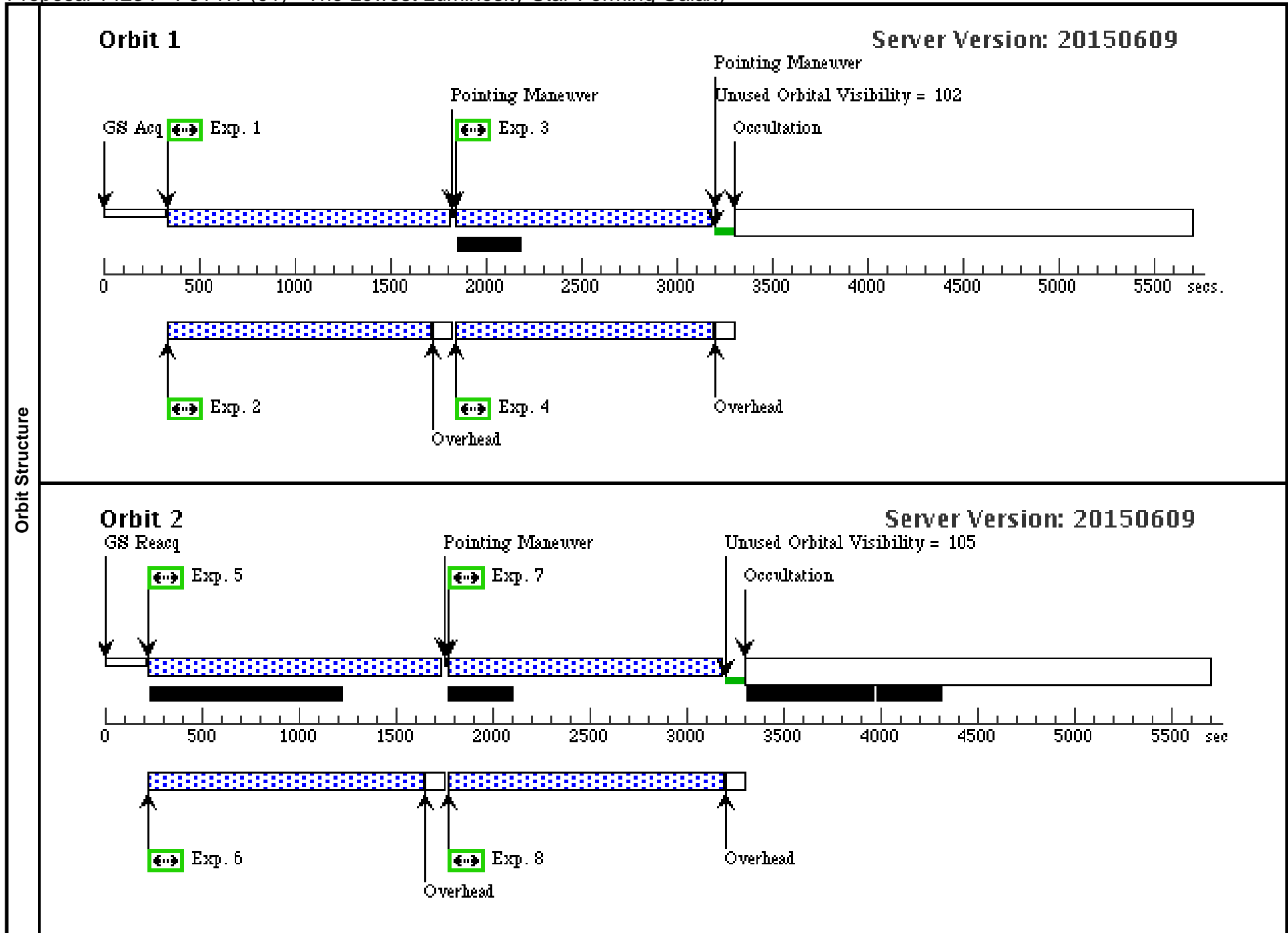
The 2 2-orbit F606W visits each contain a 2x2 resampling of the PSF, with each visit offset stepping by 120% of the detector gap in ACS. A 5th 1-orbit F606W visit obtains the 1st and 3rd steps in the PSF resampling, and falls between the two larger offsets of the detector gap.

All visits should execute at the same orient to maximize the field coverage obtained at the greatest depth.

Proposal 14234 - F814W (01) - The Lowest Luminosity Star-Forming Galaxy

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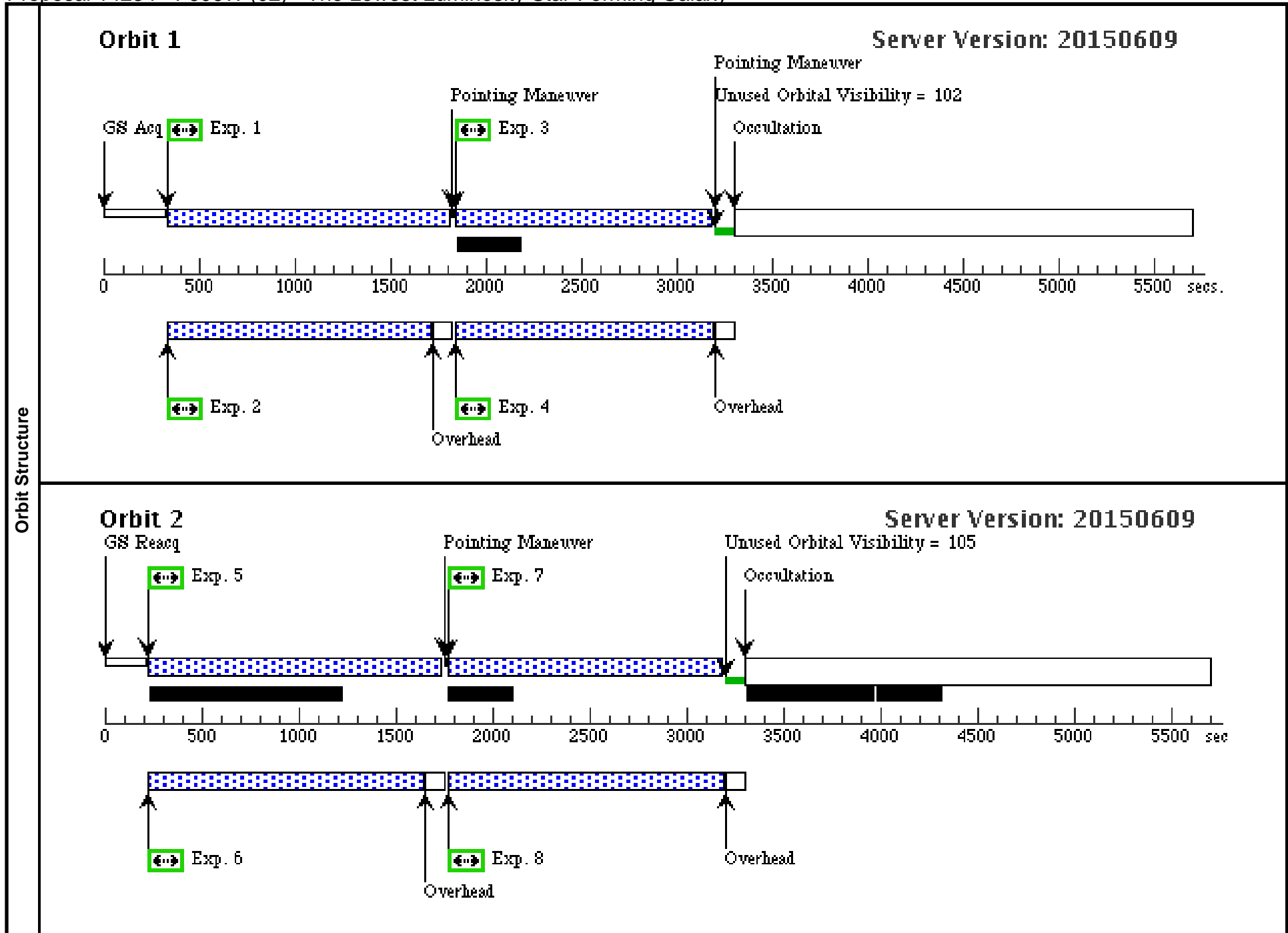
Visit	<b>Proposal 14234, F814W (01)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none) <i>Comments: 4-point dither for PSF combined with larger dither by -0.6 gap</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(6)	ERIDANUS-II	RA: 03 44 21.6000 (56.0900000d) Dec: -43 31 48.00 (-43.53000d) Equinox: J2000		V=16+/-0.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG -0.4050 80,-1.51480	Prime + Parallel Group 1-2 in F814W (01)	1270 Secs (1270 Secs) [==>]	[1]	
	2	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 1-2 in F814W (01)	1350 Secs (1350 Secs) [==>]	[1]	
	3	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.01482 00,-1.48080	Prime + Parallel Group 3-4 in F814W (01)	1220 Secs (1220 Secs) [==>]	[1]	
	4	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 3-4 in F814W (01)	1350 Secs (1350 Secs) [==>]	[1]	
	5	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG -0.0345 800,-1.26250	Prime + Parallel Group 5-6 in F814W (01)	1390 Secs (1390 Secs) [==>]	[2]	
	6	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 5-6 in F814W (01)	1420 Secs (1420 Secs) [==>]	[2]	
	7	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG -0.2074 80,-1.32590	Prime + Parallel Group 7-8 in F814W (01)	1290 Secs (1290 Secs) [==>]	[2]	
8	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 7-8 in F814W (01)	1420 Secs (1420 Secs) [==>]	[2]		



Proposal 14234 - F606W (02) - The Lowest Luminosity Star-Forming Galaxy

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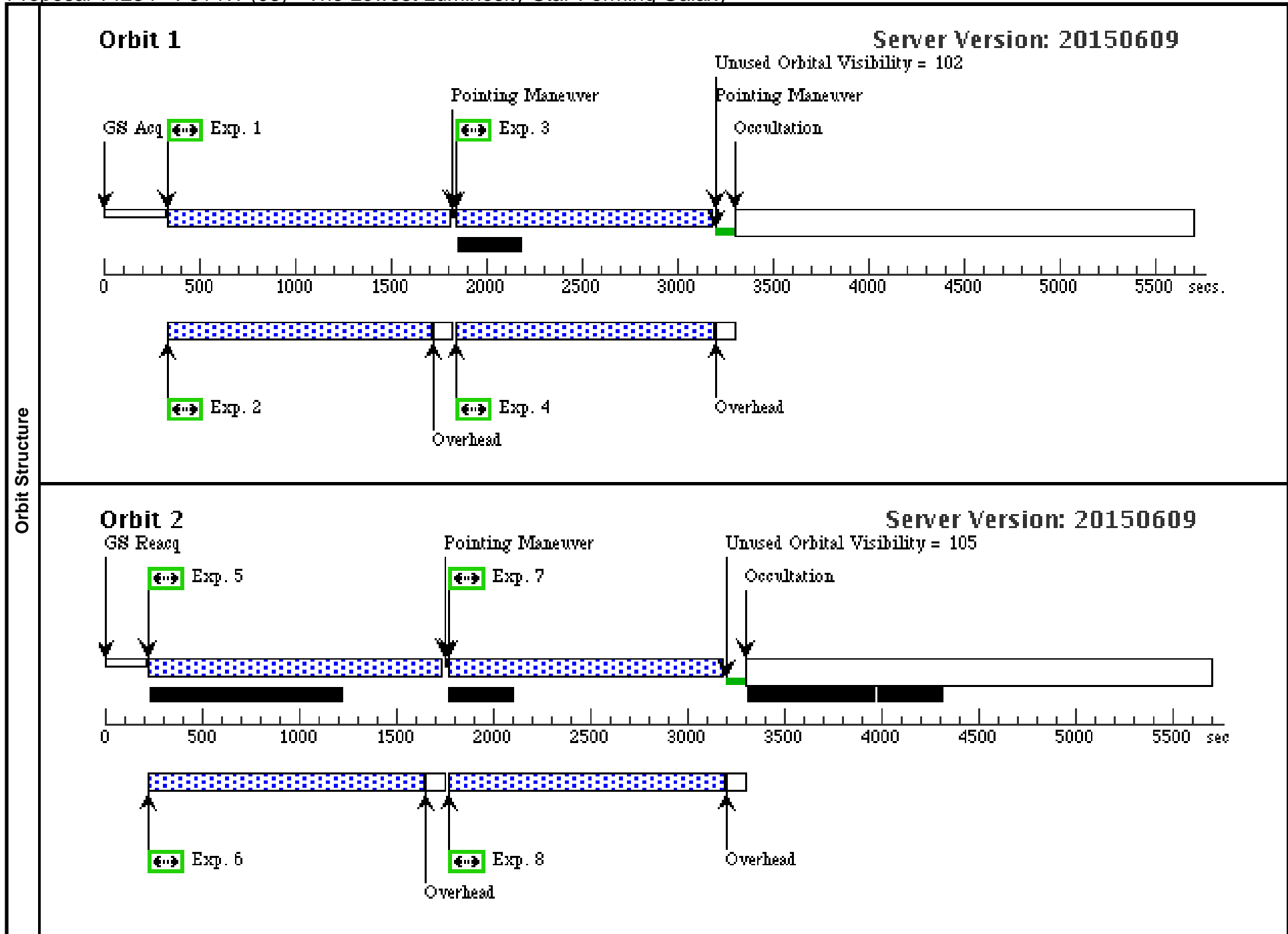
Visit	<b>Proposal 14234, F606W (02)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 01 Comments: 4-point dither for PSF combined with larger dither by -0.6 gap									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(6)	ERIDANUS-II	RA: 03 44 21.6000 (56.0900000d) Dec: -43 31 48.00 (-43.53000d) Equinox: J2000		V=16+/-0.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO	POS TARG -0.4050 80,-1.51480	Prime + Parallel Group 1-2 in F606W (02)	1270 Secs (1270 Secs) [==>]	[1]	
	2	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 1-2 in F606W (02)	1350 Secs (1350 Secs) [==>]	[1]	
	3	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO	POS TARG 0.01482 00,-1.48080	Prime + Parallel Group 3-4 in F606W (02)	1220 Secs (1220 Secs) [==>]	[1]	
	4	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 3-4 in F606W (02)	1350 Secs (1350 Secs) [==>]	[1]	
	5	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO	POS TARG -0.0345 800,-1.26250	Prime + Parallel Group 5-6 in F606W (02)	1390 Secs (1390 Secs) [==>]	[2]	
	6	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 5-6 in F606W (02)	1420 Secs (1420 Secs) [==>]	[2]	
	7	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO	POS TARG -0.2074 80,-1.32590	Prime + Parallel Group 7-8 in F606W (02)	1290 Secs (1290 Secs) [==>]	[2]	
8	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 7-8 in F606W (02)	1420 Secs (1420 Secs) [==>]	[2]		



Proposal 14234 - F814W (03) - The Lowest Luminosity Star-Forming Galaxy

Sat Jul 25 02:50:16 GMT 2015

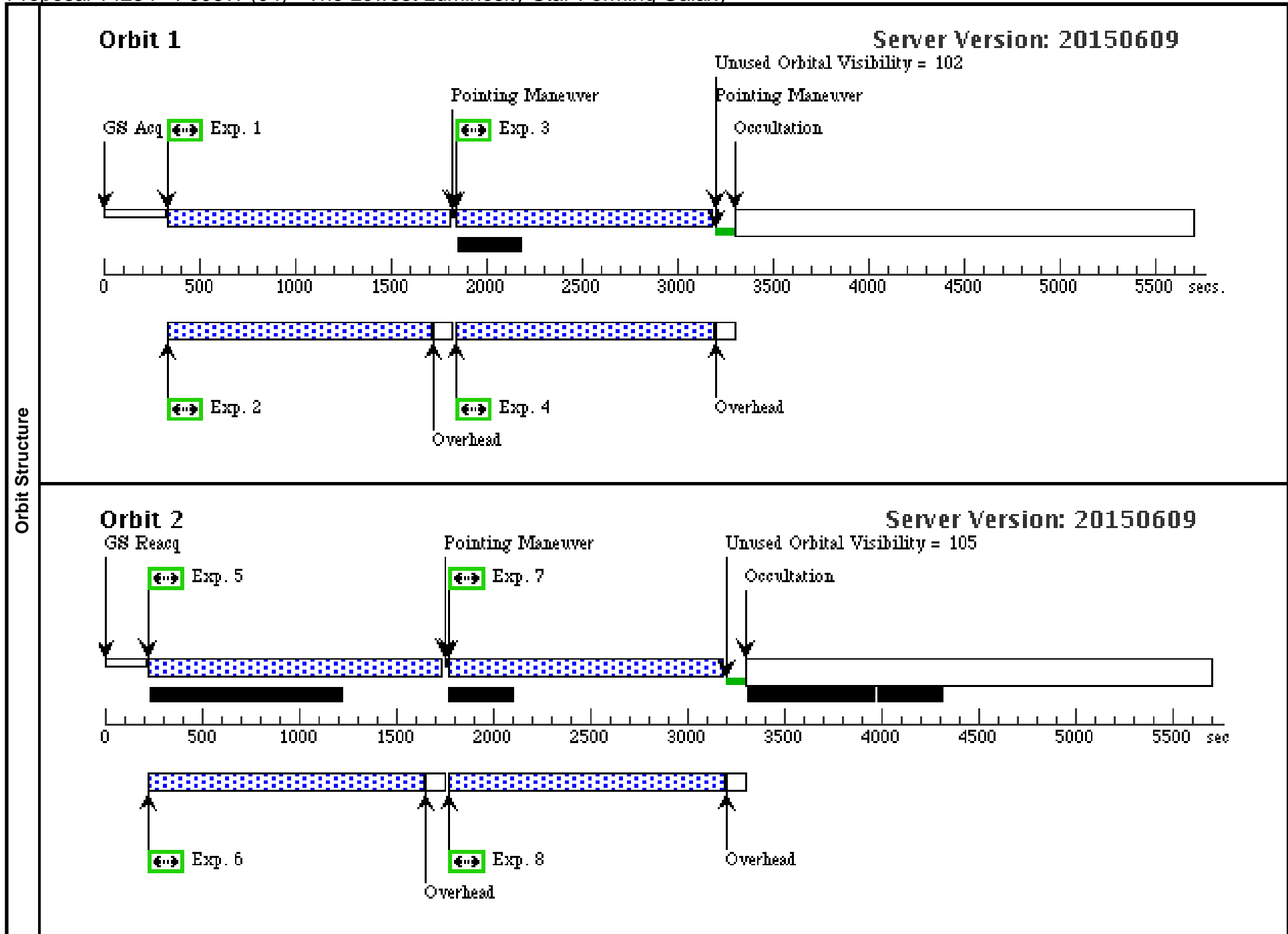
Visit	<b>Proposal 14234, F814W (03)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 01 Comments: 4-point dither for PSF combined with larger dither by -0.2 gap									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(6)	ERIDANUS-II	RA: 03 44 21.6000 (56.0900000d) Dec: -43 31 48.00 (-43.53000d) Equinox: J2000		V=16+/-0.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG -0.2667 60,-0.515600	Prime + Parallel Group 1-2 in F814W (03)	1270 Secs (1270 Secs) [==>]	[1]	
	2	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 1-2 in F814W (03)	1350 Secs (1350 Secs) [==>]	[1]	
	3	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.15314 0,-0.481600	Prime + Parallel Group 3-4 in F814W (03)	1220 Secs (1220 Secs) [==>]	[1]	
	4	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 3-4 in F814W (03)	1350 Secs (1350 Secs) [==>]	[1]	
	5	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.10374 0,-0.263300	Prime + Parallel Group 5-6 in F814W (03)	1390 Secs (1390 Secs) [==>]	[2]	
	6	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 5-6 in F814W (03)	1420 Secs (1420 Secs) [==>]	[2]	
	7	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG -0.0691 600,-0.326700	Prime + Parallel Group 7-8 in F814W (03)	1290 Secs (1290 Secs) [==>]	[2]	
8	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 7-8 in F814W (03)	1420 Secs (1420 Secs) [==>]	[2]		



Proposal 14234 - F606W (04) - The Lowest Luminosity Star-Forming Galaxy

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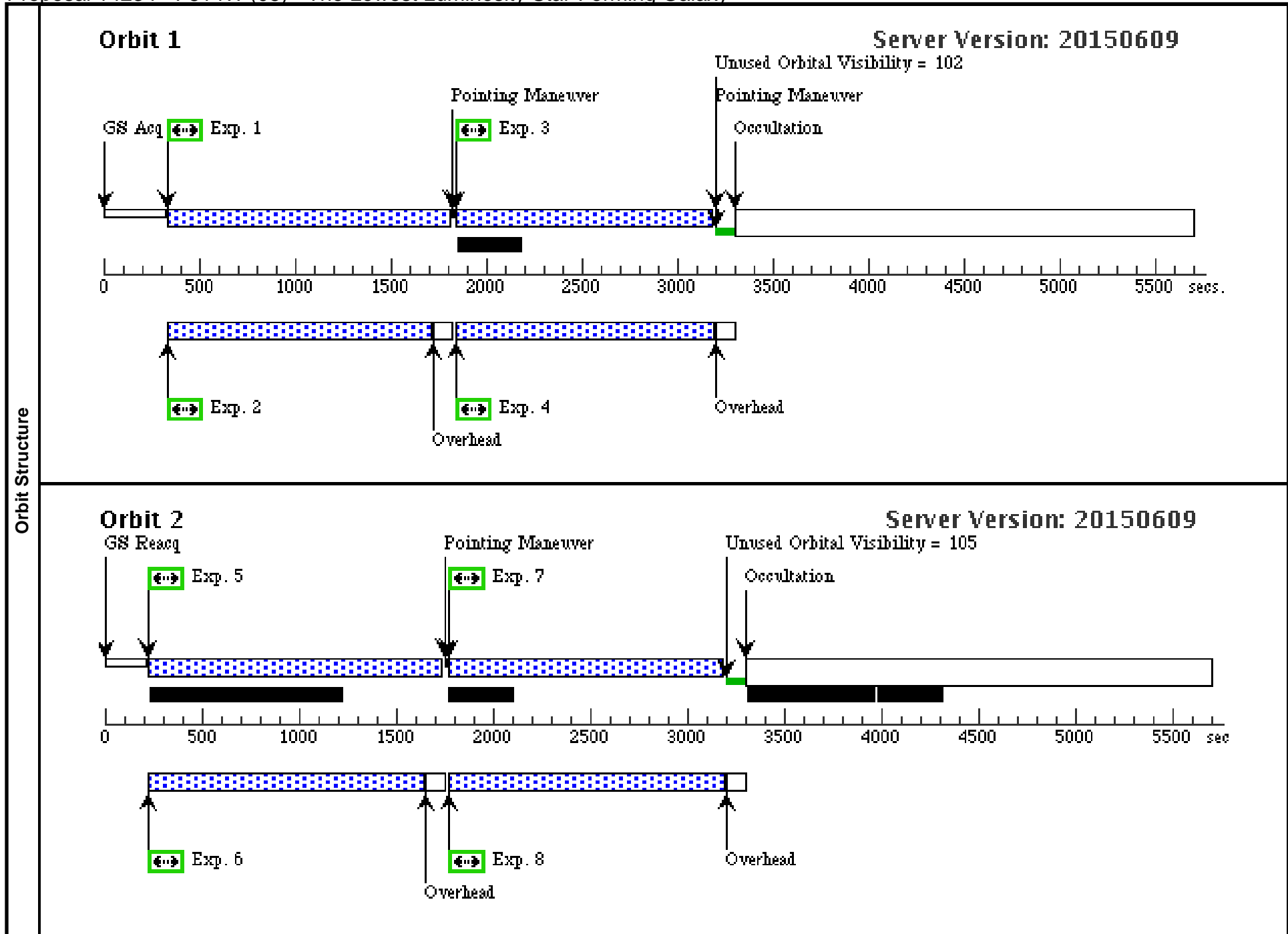
Visit	<b>Proposal 14234, F606W (04)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 01 <i>Comments: 4-point dither for PSF combined with larger dither by +0.6 gap</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(6)	ERIDANUS-II	RA: 03 44 21.6000 (56.0900000d) Dec: -43 31 48.00 (-43.53000d) Equinox: J2000		V=16+/-0.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO	POS TARG 0.00988 001,1.48280	Prime + Parallel Group 1-2 in F606W (04)	1270 Secs (1270 Secs) [==>]	[1]	
	2	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 1-2 in F606W (04)	1350 Secs (1350 Secs) [==>]	[1]	
	3	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO	POS TARG 0.42978 0,1.51680	Prime + Parallel Group 3-4 in F606W (04)	1220 Secs (1220 Secs) [==>]	[1]	
	4	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 3-4 in F606W (04)	1350 Secs (1350 Secs) [==>]	[1]	
	5	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO	POS TARG 0.38038 0,1.73510	Prime + Parallel Group 5-6 in F606W (04)	1390 Secs (1390 Secs) [==>]	[2]	
	6	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 5-6 in F606W (04)	1420 Secs (1420 Secs) [==>]	[2]	
	7	(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO	POS TARG 0.20748 0,1.67170	Prime + Parallel Group 7-8 in F606W (04)	1290 Secs (1290 Secs) [==>]	[2]	
8	ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 7-8 in F606W (04)	1420 Secs (1420 Secs) [==>]	[2]		



Proposal 14234 - F814W (05) - The Lowest Luminosity Star-Forming Galaxy

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Visit	<b>Proposal 14234, F814W (05)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 01 <i>Comments: 4-point dither for PSF combined with larger dither by +0.2 gap</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(6)	ERIDANUS-II	RA: 03 44 21.6000 (56.0900000d) Dec: -43 31 48.00 (-43.53000d) Equinox: J2000			V=16+/-0.2	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) ERIDANUS-II		ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG -0.1284 40,0.483600	Prime + Parallel Group 1-2 in F814W (05)	1270 Secs (1270 Secs) [==>]	[1]
	2	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 1-2 in F814W (05)	1350 Secs (1350 Secs) [==>]	[1]
	3	(6) ERIDANUS-II		ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.29146 0,0.517600	Prime + Parallel Group 3-4 in F814W (05)	1220 Secs (1220 Secs) [==>]	[1]
	4	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 3-4 in F814W (05)	1350 Secs (1350 Secs) [==>]	[1]
	5	(6) ERIDANUS-II		ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.24206 0,0.735900	Prime + Parallel Group 5-6 in F814W (05)	1390 Secs (1390 Secs) [==>]	[2]
	6	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 5-6 in F814W (05)	1420 Secs (1420 Secs) [==>]	[2]
	7	(6) ERIDANUS-II		ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.06916 00,0.672500	Prime + Parallel Group 7-8 in F814W (05)	1290 Secs (1290 Secs) [==>]	[2]
8	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 7-8 in F814W (05)	1420 Secs (1420 Secs) [==>]	[2]	



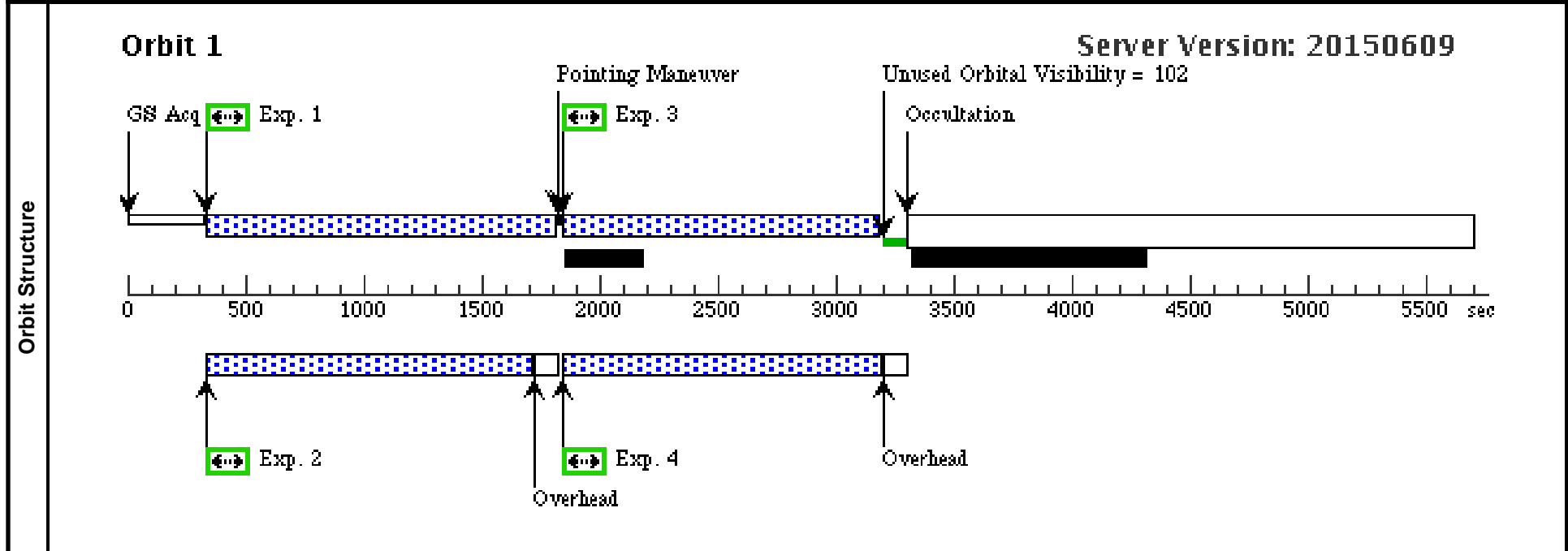
Proposal 14234 - F606W (06) - The Lowest Luminosity Star-Forming Galaxy

Sat Jul 25 02:50:17 GMT 2015

<b>Visit</b>	<b>Proposal 14234, F606W (06)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 01 <i>Comments: Only 2 points in the 4-point dither pattern, at gap offset = 0 (between the other two F606W visits)</i>			

<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(6)	ERIDANUS-II	RA: 03 44 21.6000 (56.0900000d) Dec: -43 31 48.00 (-43.53000d) Equinox: J2000		V=16+/-0.2	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO	POS TARG -0.1976 00,-0.0160000	Prime + Parallel Group 1-2 in F606W (06)	1270 Secs (1270 Secs) [==>]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 1-2 in F606W (06)	1350 Secs (1350 Secs) [==>]	[1]
	3		(6) ERIDANUS-II	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO	POS TARG 0.17290 0,0.236300	Prime + Parallel Group 3-4 in F606W (06)	1220 Secs (1220 Secs) [==>]	[1]
	4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 3-4 in F606W (06)	1350 Secs (1350 Secs) [==>]	[1]



Proposal 14234 - F814W (07) - The Lowest Luminosity Star-Forming Galaxy

Sat Jul 25 02:50:17 GMT 2015

Visit	<b>Proposal 14234, F814W (07)</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 01 <i>Comments: 4-point dither for PSF combined with larger dither by +0.6 gap</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(6)	ERIDANUS-II	RA: 03 44 21.6000 (56.0900000d) Dec: -43 31 48.00 (-43.53000d) Equinox: J2000			V=16+/-0.2	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6) ERIDANUS-II		ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.00988 001,1.48280	Prime + Parallel Group 1-2 in F814W (07)	1270 Secs (1270 Secs) [==>]	[1]
	2	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 1-2 in F814W (07)	1350 Secs (1350 Secs) [==>]	[1]
	3	(6) ERIDANUS-II		ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.42978 0,1.51680	Prime + Parallel Group 3-4 in F814W (07)	1220 Secs (1220 Secs) [==>]	[1]
	4	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 3-4 in F814W (07)	1350 Secs (1350 Secs) [==>]	[1]
	5	(6) ERIDANUS-II		ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.38038 0,1.73510	Prime + Parallel Group 5-6 in F814W (07)	1390 Secs (1390 Secs) [==>]	[2]
	6	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 5-6 in F814W (07)	1420 Secs (1420 Secs) [==>]	[2]
	7	(6) ERIDANUS-II		ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.20748 0,1.67170	Prime + Parallel Group 7-8 in F814W (07)	1290 Secs (1290 Secs) [==>]	[2]
	8	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 7-8 in F814W (07)	1420 Secs (1420 Secs) [==>]	[2]

