



14224 - The lowest mass galaxies with extended star formation history: a new cosmological challenge

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	(1) LEO-T ANY	ACS/WFC WFC3/UVIS	3	24-Jul-2015 22:45:31.0	yes
02	(1) LEO-T ANY	ACS/WFC WFC3/UVIS	3	24-Jul-2015 22:45:34.0	yes
03	(2) ERIDANUS2 ANY	ACS/WFC WFC3/UVIS	3	24-Jul-2015 22:45:37.0	yes
04	(2) ERIDANUS2 ANY	ACS/WFC WFC3/UVIS	3	24-Jul-2015 22:45:41.0	yes
05	(3) HYDRA2 ANY	ACS/WFC WFC3/UVIS	1	24-Jul-2015 22:45:43.0	yes

13 Total Orbits Used

ABSTRACT

Dwarf galaxies are the most numerous type of galaxies in the present-day Universe. They are thought to be the first galaxies to form and the basic building-blocks of larger galaxies. They are thus, key astrophysical objects for understanding the most common mode of galaxy formation and how they relate to the build-up of larger structures in the Universe.

The faintest dwarf galaxies that have been discovered in the Local Group (the so-called ultra-faint dwarfs, UFD) have been shown to contain similar ancient populations, which could indicate that star formation in the smallest sub-halos was suppressed by a global outside influence such as cosmic reionization. This conclusion, however, is severely challenged by the recently discovered Hydra II and Eridanus II UFD, which ground-based color-

magnitude diagrams show clear indications of the presence of an intermediate-age, or even, young population, like in a third UFD, Leo T. The goal of this proposal is to determine the complete star formation history of the only three (known so far) UFD galaxies that present an extended period of star formation. We will determine whether they began forming stars before or after the reionization. For that we will obtain deep color-magnitude diagrams and derive star formation histories with an exquisite age resolution (< 1 Gyr at old ages).

The proposed observations will place strong constraints on the formation mechanisms of the faintest galaxies in the Universe, on their subsequent evolution, and on the conditions of the early Universe. This will have important implications for our understanding of galaxy formation and evolution in general.

OBSERVING DESCRIPTION

For this project, three galaxies are observed in both ACS and WFPC3/UVIS

Leo T is observed for 6 orbits, all time is spent in F814W in both cameras. This is because there is the necessary amount of F606W exposure time in the archive, for program 12914, and more exposure time in the same band will be added for program 13770. In this case, we intend to match closely the observing strategy of that program, in terms of central pointing, orientation angle, and some of the dithers. Each orbit is split in two exposures with each camera, organized in two visits of three orbits each. We obtain only long exposures because some short exposures in F814W have been obtained in program 12914, and even the brightest stars in the galaxy are not saturated in the long exposures available for F606W in program 12914.

For Eridanus II, we divide the total available exposure time almost evenly in F475W and F814W. The 6 available orbits are organized in 2 visits of 3 orbits each. We require the same orient in all the orbits. In orbit 1 of each visit, we obtain one long exposure in each filter. In orbits two and three, we obtain one long exposure in one of the filters and one short and one long in the other, in order to be able to obtain photometry of the brightest stars in the RGB.

For Hydra II we have only one orbit available. Two dithered images of the same length are taken in each F475W and F814W.

Proposal 14224 - Leo T-visit 1 (01) - The lowest mass galaxies with extended star formation history: a new cosmological challenge

Sat Jul 25 02:45:44 GMT 2015

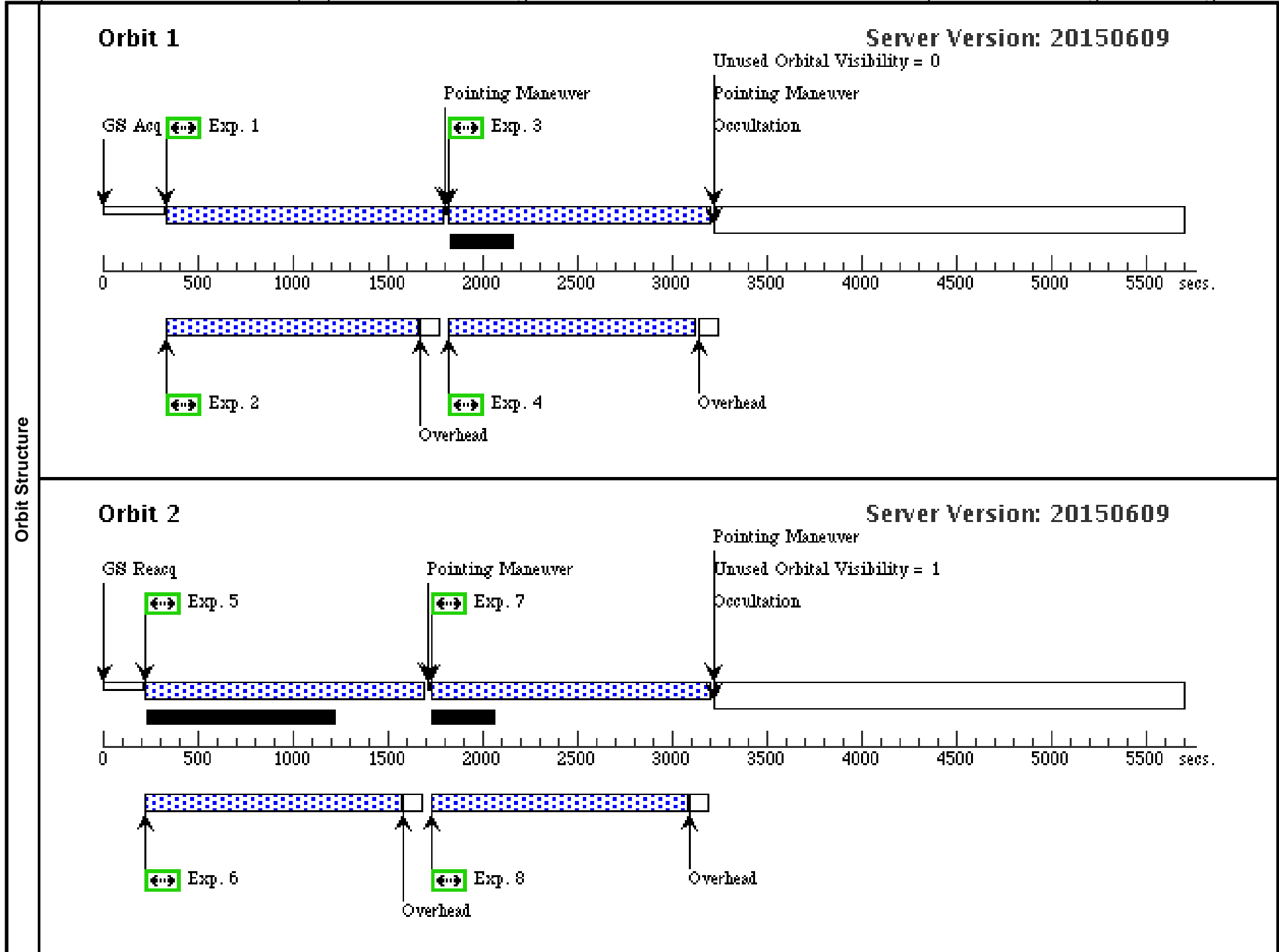
Visit	<p>Proposal 14224, Leo T-visit 1 (01)</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: ORIENT 278.982D TO 278.982 D</p> <p><i>Comments: We are requesting the same orientation angle as the one in which observations of program 12914 have been taken (278.982 degrees, which is also the same orientation in which observations of program 13770 will be taken) in order to match the fields as closely as possible.</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(1)	LEO-T	RA: 09 34 53.6100 (143.7233750d) Dec: +17 02 43.01 (17.04528d) Equinox: J2000	Epoch of Position: 2000.0	V=15.1	Reference Frame: ICRS
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Extended=YES</p>					

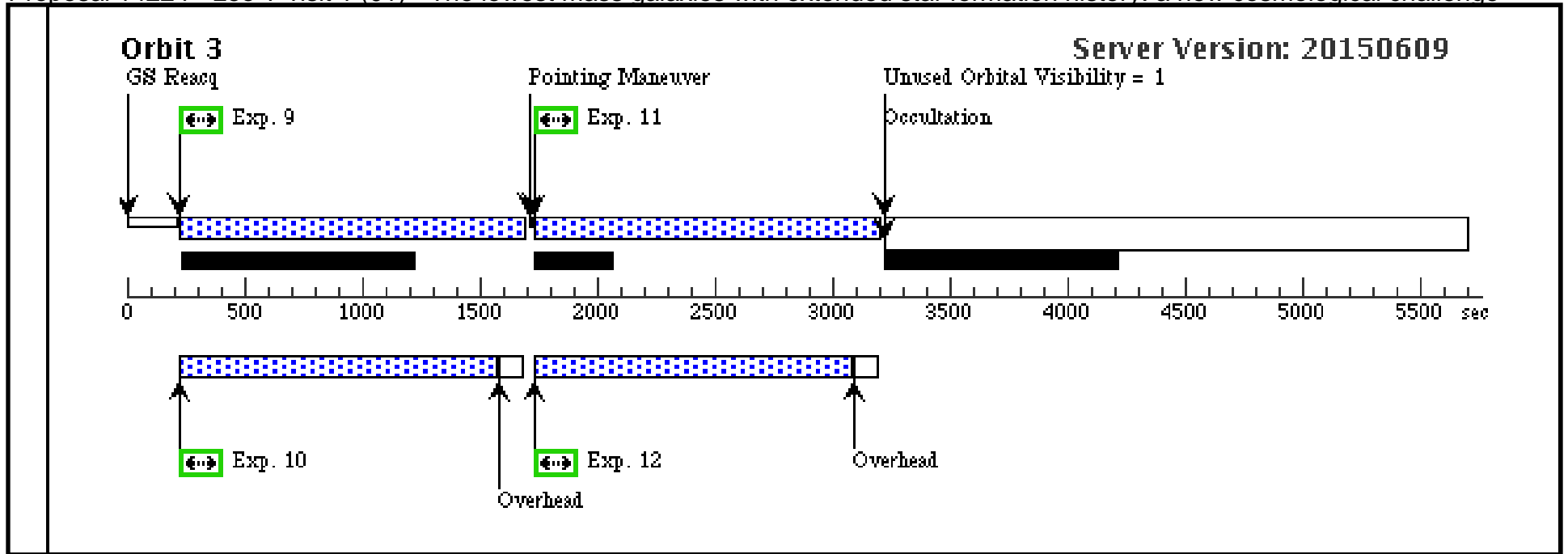
Proposal 14224 - Leo T-visit 1 (01) - The lowest mass galaxies with extended star formation history: a new cosmological challenge

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	LeoT-acsc-dit (1) LEO-T her0	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.0,0.0	Sequence 1-4 Non-Int in Leo T-visit 1 (01) Prime + Parallel Group 1-2 in Sequence 1-4 Non-Int in Leo T-visit 1 (01)	1255 Secs (1255 Secs) [==>]	[1]
	2	LeoT-wfc3-dither0	ANY WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int in Leo T-visit 1 (01) Prime + Parallel Group 1-2 in Sequence 1-4 Non-Int in Leo T-visit 1 (01)	1300 Secs (1300 Secs) [==>]	[1]
	3	LeoT-acsc-dit (1) LEO-T her1	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.1740,0.1850	Sequence 1-4 Non-Int in Leo T-visit 1 (01) Prime + Parallel Group 3-4 in Sequence 1-4 Non-Int in Leo T-visit 1 (01)	1255 Secs (1255 Secs) [==>]	[1]
	4	LeoT-wfc3-dither2	ANY WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int in Leo T-visit 1 (01) Prime + Parallel Group 3-4 in Sequence 1-4 Non-Int in Leo T-visit 1 (01)	1300 Secs (1300 Secs) [==>]	[1]
	5	LeoT-acsc-dit (1) LEO-T her3	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.3232,0.1235	Sequence 5-8 Non-Int in Leo T-visit 1 (01) Prime + Parallel Group 5-6 in Sequence 5-8 Non-Int in Leo T-visit 1 (01)	1351 Secs (1351 Secs) [==>]	[2]
	6	LeoT-wfc3-dither3	ANY WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 5-8 Non-Int in Leo T-visit 1 (01) Prime + Parallel Group 5-6 in Sequence 5-8 Non-Int in Leo T-visit 1 (01)	1350 Secs (1350 Secs) [==>]	[2]
	7	LeoT-acsc-dit (1) LEO-T her4	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.1005,0.3305	Sequence 5-8 Non-Int in Leo T-visit 1 (01) Prime + Parallel Group 7-8 in Sequence 5-8 Non-Int in Leo T-visit 1 (01)	1351 Secs (1351 Secs) [==>]	[2]
	8	LeoT-wfc3-dither4	ANY WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 5-8 Non-Int in Leo T-visit 1 (01) Prime + Parallel Group 7-8 in Sequence 5-8 Non-Int in Leo T-visit 1 (01)	1350 Secs (1350 Secs) [==>]	[2]

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9	LeoT-acs-dit (1) LEO-T her5	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.5030,0 .0460	Sequence 9-12 Non-Int in Leo T-visit 1 (01) Prime + Parallel Group 9-10 in Sequence 9-12 Non-Int in Leo T-visit 1 (01)	1351 Secs (1351 Secs) [==>]	[3]
10	LeoT-wfc3-dither5	ANY WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 9-12 Non-Int in Leo T-visit 1 (01) Prime + Parallel Group 9-10 in Sequence 9-12 Non-Int in Leo T-visit 1 (01)	1350 Secs (1350 Secs) [==>]	[3]
11	LeoT-acs-dit (1) LEO-T her6	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.6770,0 .2310	Sequence 9-12 Non-Int in Leo T-visit 1 (01) Prime + Parallel Group 11-12 in Sequence 9-12 Non-Int in Leo T-visit 1 (01)	1351 Secs (1351 Secs) [==>]	[3]
12	LeoT-wfc3-dither6	ANY WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 9-12 Non-Int in Leo T-visit 1 (01) Prime + Parallel Group 11-12 in Sequence 9-12 Non-Int in Leo T-visit 1 (01)	1350 Secs (1350 Secs) [==>]	[3]





Proposal 14224 - Leo T visit 2 (02) - The lowest mass galaxies with extended star formation history: a new cosmological challenge

Sat Jul 25 02:45:45 GMT 2015

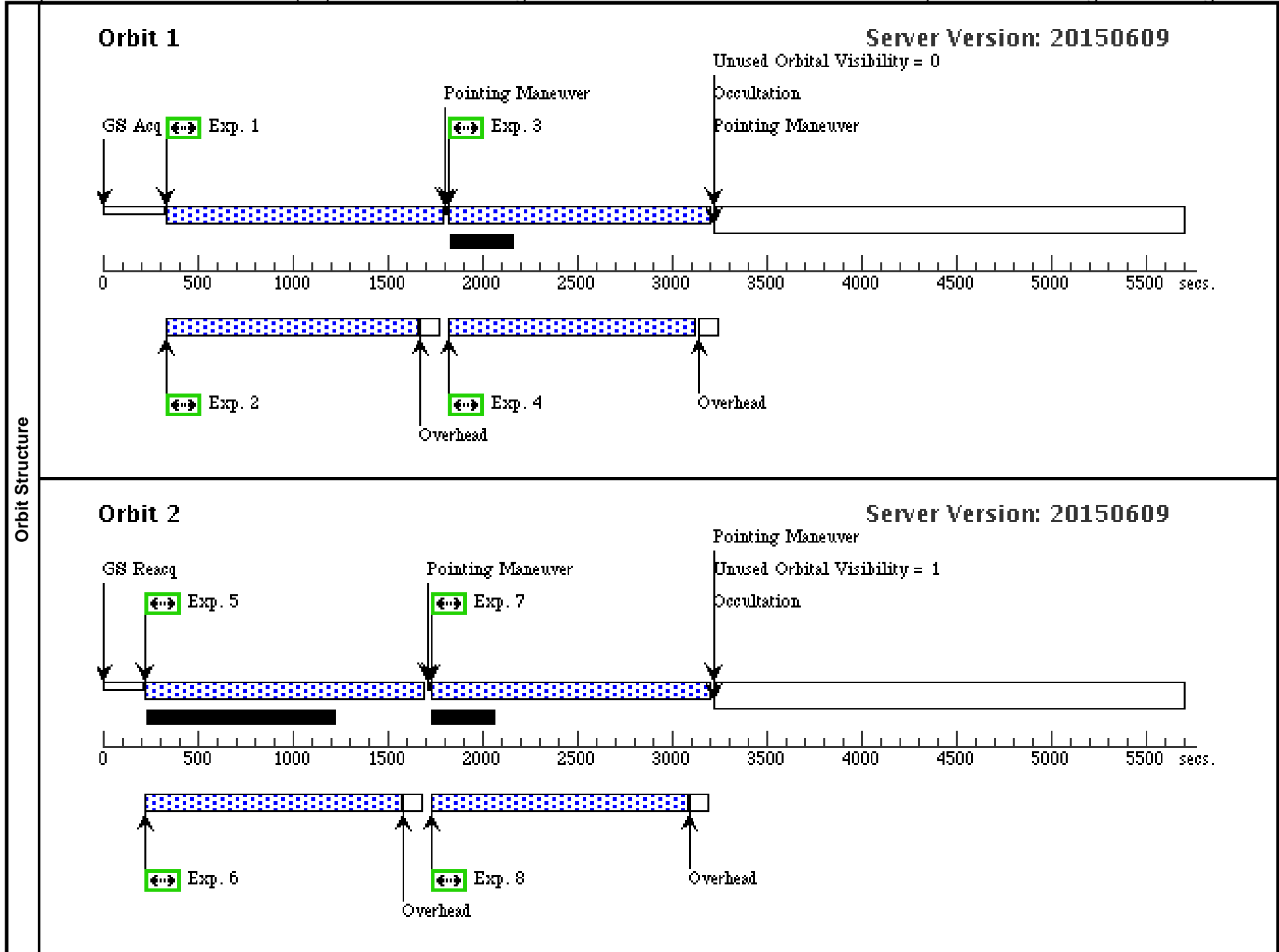
Visit	<p>Proposal 14224, Leo T visit 2 (02)</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: ORIENT 278.982D TO 278.982 D</p> <p><i>Comments: We are requesting the same orientation angle as the one in which observations of program 12914 have been taken (278.982 degrees) which is also the same orientation in which observations of program 13770 will be taken) in order to match the fields as closely as possible.</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		LEO-T	RA: 09 34 53.6100 (143.7233750d) Dec: +17 02 43.01 (17.04528d) Equinox: J2000	Epoch of Position: 2000.0	V=15.1	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p>Extended=YES</p>						

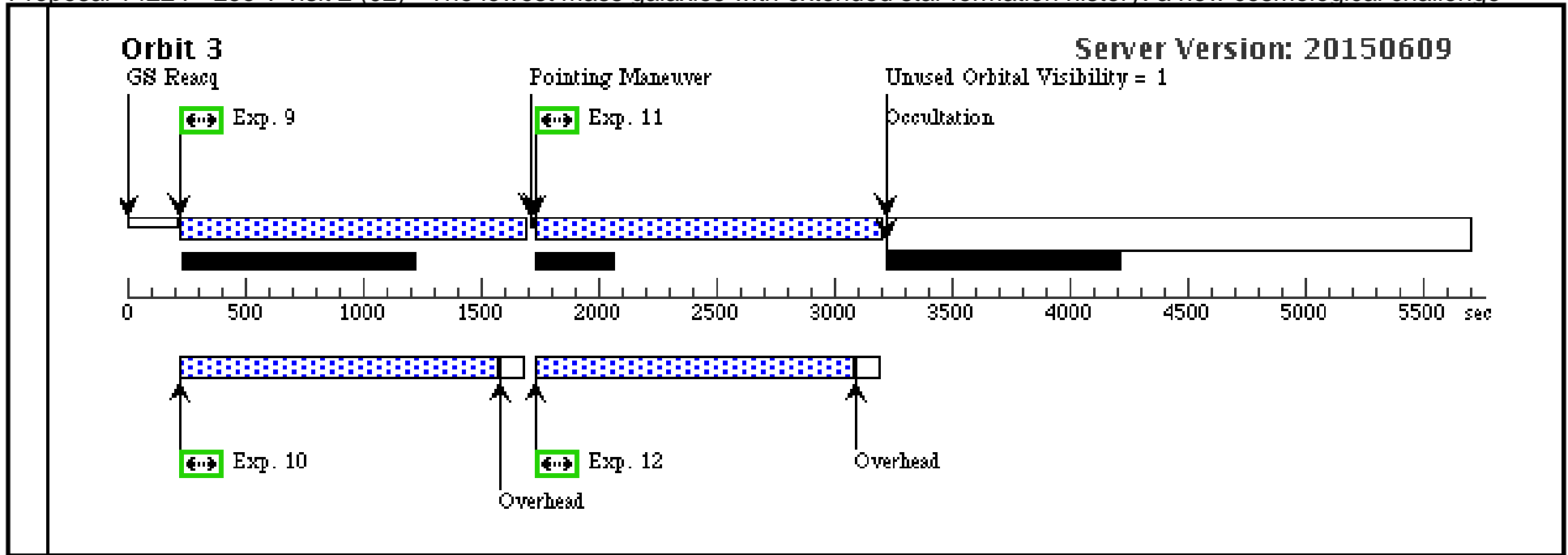
Proposal 14224 - Leo T visit 2 (02) - The lowest mass galaxies with extended star formation history: a new cosmological challenge

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	LeoT-acs-dit her7	(1) LEO-T	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.2470,2 .9840	Sequence 1-4 Non-Int in Leo T visit 2 (02) Prime + Parallel Group 1-2 in Sequence 1-4 Non-Int in Leo T visit 2 (02)	1255 Secs (1255 Secs) [==>]	[1]
	2	LeoT-wfc3-dither7	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int in Leo T visit 2 (02) Prime + Parallel Group 1-2 in Sequence 1-4 Non-Int in Leo T visit 2 (02)	1300 Secs (1300 Secs) [==>]	[1]
	3	LeoT-acs-dit her8	(1) LEO-T	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.4210,3 .1690	Sequence 1-4 Non-Int in Leo T visit 2 (02) Prime + Parallel Group 3-4 in Sequence 1-4 Non-Int in Leo T visit 2 (02)	1255 Secs (1255 Secs) [==>]	[1]
	4	LeoT-wfc3-dither8	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int in Leo T visit 2 (02) Prime + Parallel Group 3-4 in Sequence 1-4 Non-Int in Leo T visit 2 (02)	1300 Secs (1300 Secs) [==>]	[1]
	5	LeoT-acs-dit her9	(1) LEO-T	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.5702,3 .1075	Sequence 5-8 Non-Int in Leo T visit 2 (02) Prime + Parallel Group 5-6 in Sequence 5-8 Non-Int in Leo T visit 2 (02)	1351 Secs (1351 Secs) [==>]	[2]
	6	LeoT-wfc3-dither9	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 5-8 Non-Int in Leo T visit 2 (02) Prime + Parallel Group 5-6 in Sequence 5-8 Non-Int in Leo T visit 2 (02)	1350 Secs (1350 Secs) [==>]	[2]
	7	LeoT-acs-dit her10	(1) LEO-T	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.3475,3 .3145	Sequence 5-8 Non-Int in Leo T visit 2 (02) Prime + Parallel Group 7-8 in Sequence 5-8 Non-Int in Leo T visit 2 (02)	1351 Secs (1351 Secs) [==>]	[2]
	8	LeoT-wfc3-dither10	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 5-8 Non-Int in Leo T visit 2 (02) Prime + Parallel Group 7-8 in Sequence 5-8 Non-Int in Leo T visit 2 (02)	1350 Secs (1350 Secs) [==>]	[2]
	9	LeoT-acs-dit her11	(1) LEO-T	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.7500,3 .0300	Sequence 9-12 Non-Int in Leo T visit 2 (02) Prime + Parallel Group 9-10 in Sequence 9-12 Non-Int in Leo T visit 2 (02)	1351 Secs (1351 Secs) [==>]	[3]

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10	LeoT-wfc3-dither11	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 9-12 Non-Int in Leo T visit 2 (02) Prime + Parallel Group 9-10 in Sequence 9-12 Non-Int in Leo T visit 2 (02)	1350 Secs (1350 Secs) [==>]	[3]
11	LeoT-acs-dither12	(1) LEO-T	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.9240,3 .2150	Sequence 9-12 Non-Int in Leo T visit 2 (02) Prime + Parallel Group 11-12 in Sequence 9-12 Non-Int in Leo T visit 2 (02)	1351 Secs (1351 Secs) [==>]	[3]
12	LeoT-wfc3-dither12	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 9-12 Non-Int in Leo T visit 2 (02) Prime + Parallel Group 11-12 in Sequence 9-12 Non-Int in Leo T visit 2 (02)	1350 Secs (1350 Secs) [==>]	[3]





Proposal 14224 - Erill-visit 1 (03) - The lowest mass galaxies with extended star formation history: a new cosmological challenge

Sat Jul 25 02:45:45 GMT 2015

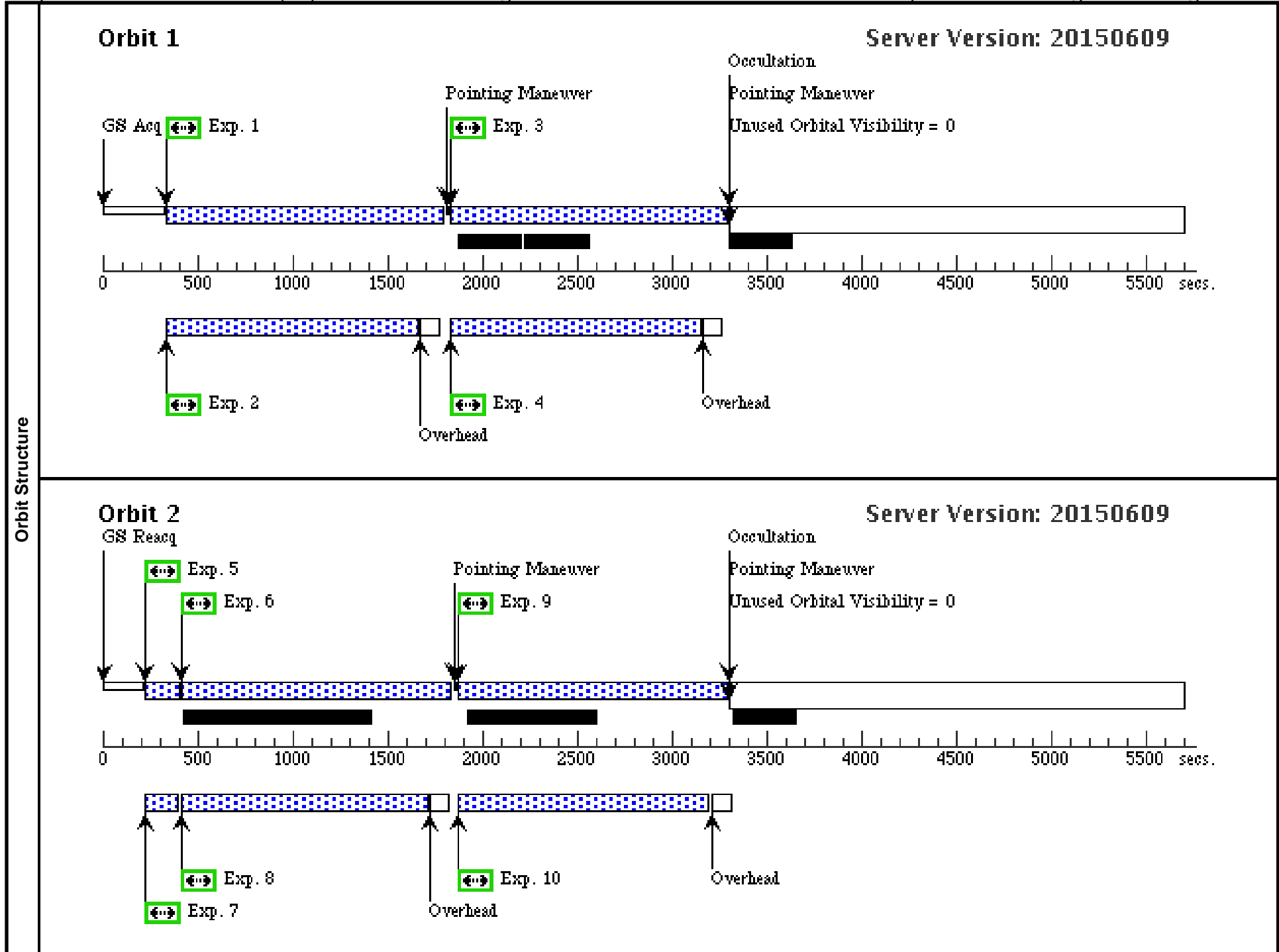
Visit	<p>Proposal 14224, Erill-visit 1 (03)</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: ORIENT 107D TO 67 D</p> <p><i>Comments: In this visit, we apply a small dither pattern.</i></p> <p><i>Orbit 1: For both cameras, one long exposure in each filter is obtained for F475W and F814W. Dither is applied between the two exposures.</i></p> <p><i>Orbit 2: For both cameras, short+long exposure in F814W and long exposure in F475W. Short and long F814W exposures are at the same pointing, F475W exposure is dithered.</i></p> <p><i>Orbit 3: For both cameras, short+long exposure in F475W and long exposure in F814W. Short and long F475W exposures are at the same pointing, F814W exposure is dithered.</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(2)		ERIDANUS2	RA: 03 44 21.0000 (56.0875000d) Dec: -43 31 59.52 (-43.53320d) Equinox: J2000		V=16.3	Reference Frame: ICRS

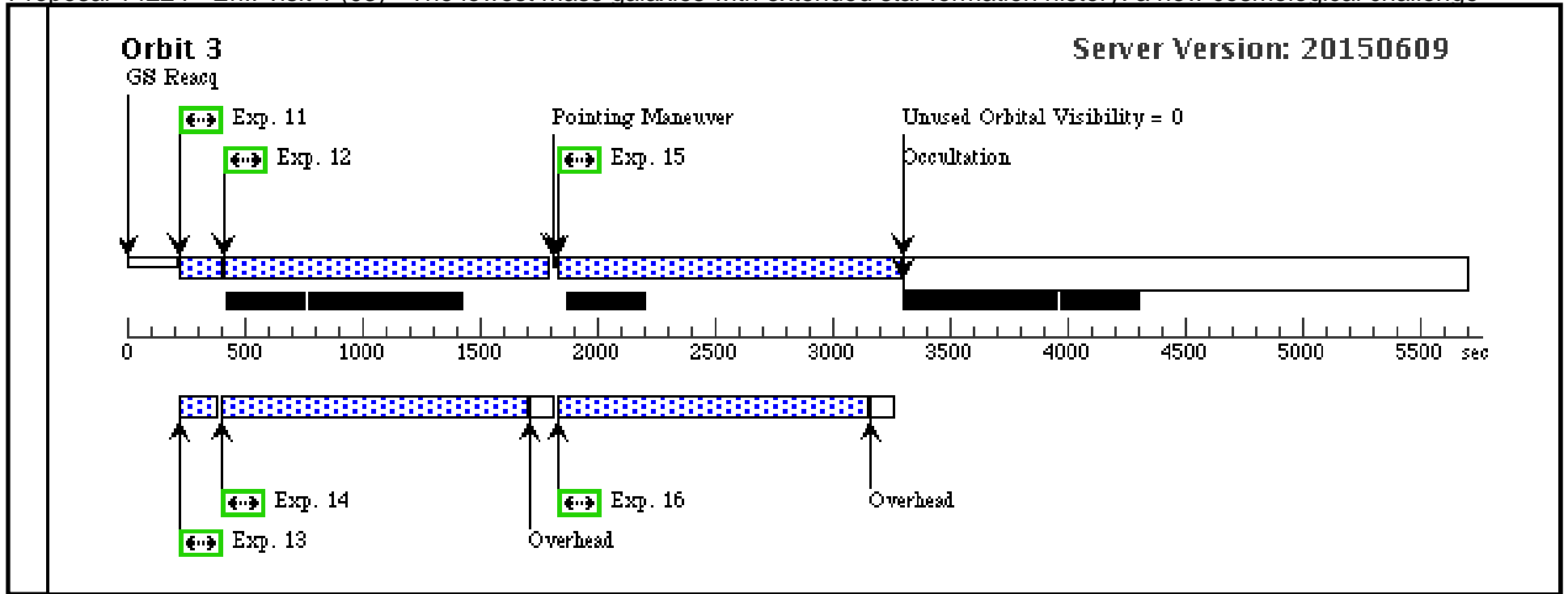
Proposal 14224 - Erill-visit 1 (03) - The lowest mass galaxies with extended star formation history: a new cosmological challenge

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	EriII-acs-47 5-dither1	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 0.0,0.0	Sequence 1-4 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 1-2 in Sequence 1-4 Non-Int in EriII-visit 1 (03)	1257 Secs (1257 Secs) [==>]	[1]
	2	EriII-wfc3-4 75-dither1	ANY	WFC3/UVIS, ACCUM, UVIS	F475W	CR-SPLIT=NO		Sequence 1-4 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 1-2 in Sequence 1-4 Non-Int in EriII-visit 1 (03)	1300 Secs (1300 Secs) [==>]	[1]
	3	EriII-acs-81 4-dither2	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.1740,0.1850	Sequence 1-4 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 3-4 in Sequence 1-4 Non-Int in EriII-visit 1 (03)	1300 Secs (1300 Secs) [==>]	[1]
	4	EriII-wfc3-8 14-dither2	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 3-4 in Sequence 1-4 Non-Int in EriII-visit 1 (03)	1300 Secs (1300 Secs) [==>]	[1]
	5	EriII-acs-81 4s-dither3	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.3232,0.1235	Sequence 5-10 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 5-8 in Sequence 5-10 Non-Int in EriII-visit 1 (03)	50 Secs (50 Secs) [==>]	[2]
	6	EriII-acs-81 4-dither3	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.3232,0.1235	Sequence 5-10 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 5-8 in Sequence 5-10 Non-Int in EriII-visit 1 (03)	1300 Secs (1300 Secs) [==>]	[2]
	7	EriII-wfc3-8 14s-dither3	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO; FLASH=10		Sequence 5-10 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 5-8 in Sequence 5-10 Non-Int in EriII-visit 1 (03)	50 Secs (50 Secs) [==>]	[2]
	8	EriII-wfc3-8 14-dither3	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 5-10 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 5-8 in Sequence 5-10 Non-Int in EriII-visit 1 (03)	1300 Secs (1300 Secs) [==>]	[2]

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9	EriII-acs-47 5-dither4	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 0.1005,0 .3305	Sequence 5-10 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 9-10 in Sequence 5-10 Non-Int in EriII-visit 1 (03)	1257 Secs (1257 Secs) [==>]	[2]
10	EriII-wfc3-4 75-dither4	ANY	WFC3/UVIS, ACCUM, UVIS	F475W	CR-SPLIT=NO		Sequence 5-10 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 9-10 in Sequence 5-10 Non-Int in EriII-visit 1 (03)	1300 Secs (1300 Secs) [==>]	[2]
11	EriII-acs-47 5s-dither5	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 0.5030,0 .0460	Sequence 11-16 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 11-14 in Sequence 11-16 Non-Int in EriII-visit 1 (03)	51 Secs (51 Secs) [==>]	[3]
12	EriII-acs-47 5-dither5	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 0.5030,0 .0460	Sequence 11-16 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 11-14 in Sequence 11-16 Non-Int in EriII-visit 1 (03)	1257 Secs (1257 Secs) [==>]	[3]
13	EriII-wfc3-4 75s-dither5	ANY	WFC3/UVIS, ACCUM, UVIS	F475W	CR-SPLIT=NO; FLASH=11		Sequence 11-16 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 11-14 in Sequence 11-16 Non-Int in EriII-visit 1 (03)	40 Secs (40 Secs) [==>]	[3]
14	EriII-wfc3-4 75-dither5	ANY	WFC3/UVIS, ACCUM, UVIS	F475W	CR-SPLIT=NO		Sequence 11-16 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 11-14 in Sequence 11-16 Non-Int in EriII-visit 1 (03)	1300 Secs (1300 Secs) [==>]	[3]
15	EriII-acs-81 4-dither6	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.6770,0 .2310	Sequence 11-16 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 15-16 in Sequence 11-16 Non-Int in EriII-visit 1 (03)	1300 Secs (1300 Secs) [==>]	[3]
16	EriII-wfc3-8 14-dither6	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 11-16 Non-Int in EriII-visit 1 (03) Prime + Parallel Group 15-16 in Sequence 11-16 Non-Int in EriII-visit 1 (03)	1300 Secs (1300 Secs) [==>]	[3]





Proposal 14224 - Erill-visit 2 (04) - The lowest mass galaxies with extended star formation history: a new cosmological challenge

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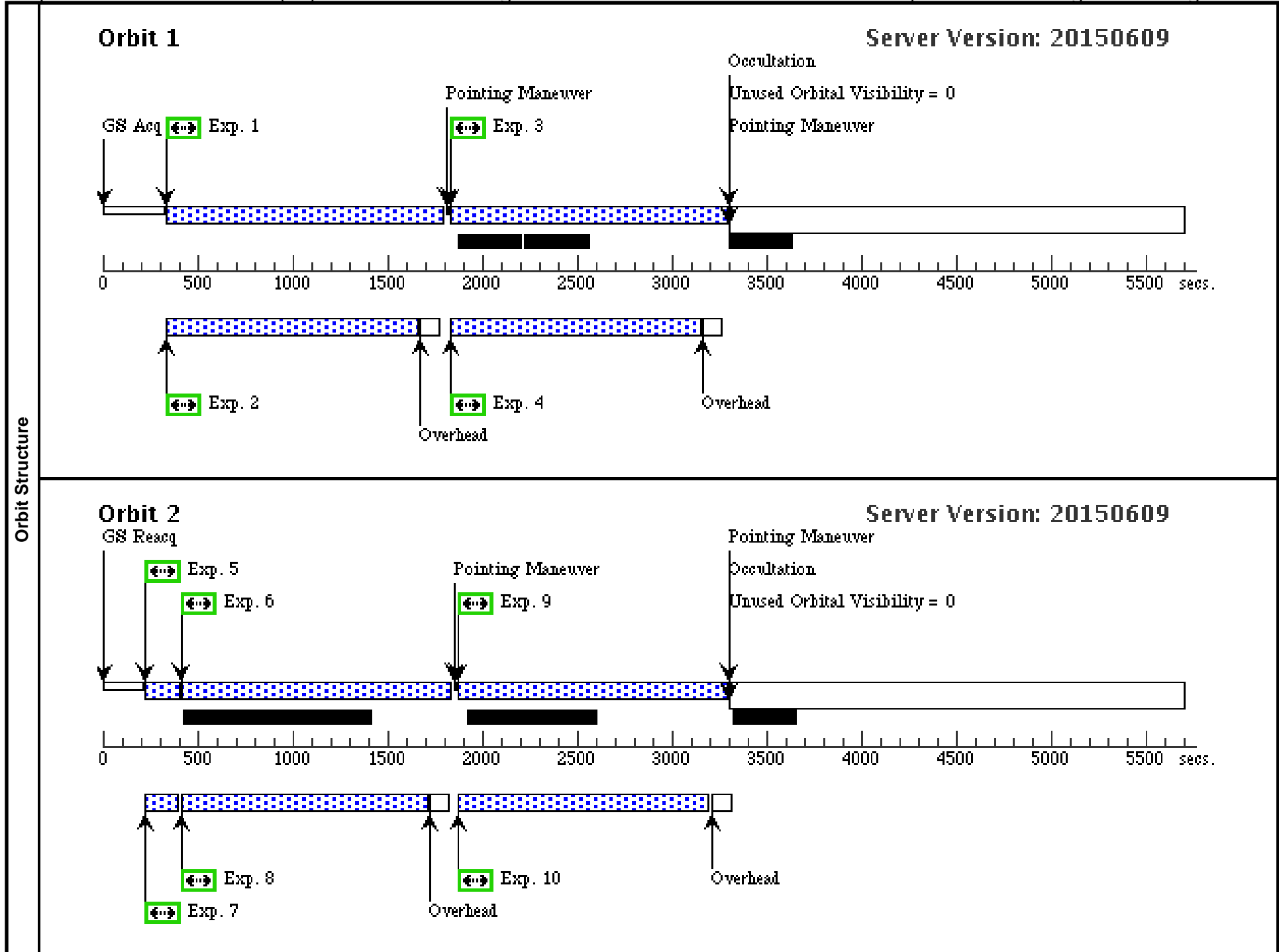
Visit	<p>Proposal 14224, Erill-visit 2 (04)</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SAME ORIENT AS 03</p> <p><i>Comments: In this visit, we apply a small dither pattern.</i></p> <p><i>Orbit 1: For both cameras, one long exposure in each filter is obtained for F475W and F814W. Dither is applied between the two exposures.</i></p> <p><i>Orbit 2: For both cameras, short+long exposure in F814W and long exposure in F475W. Short and long F814W exposures are at the same pointing, F475W exposure is dithered.</i></p> <p><i>Orbit 3: For both cameras, short+long exposure in F475W and long exposure in F814W. Short and long F475W exposures are at the same pointing, F814W exposure is dithered.</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(2)		ERIDANUS2	RA: 03 44 21.0000 (56.0875000d) Dec: -43 31 59.52 (-43.53320d) Equinox: J2000		V=16.3	Reference Frame: ICRS

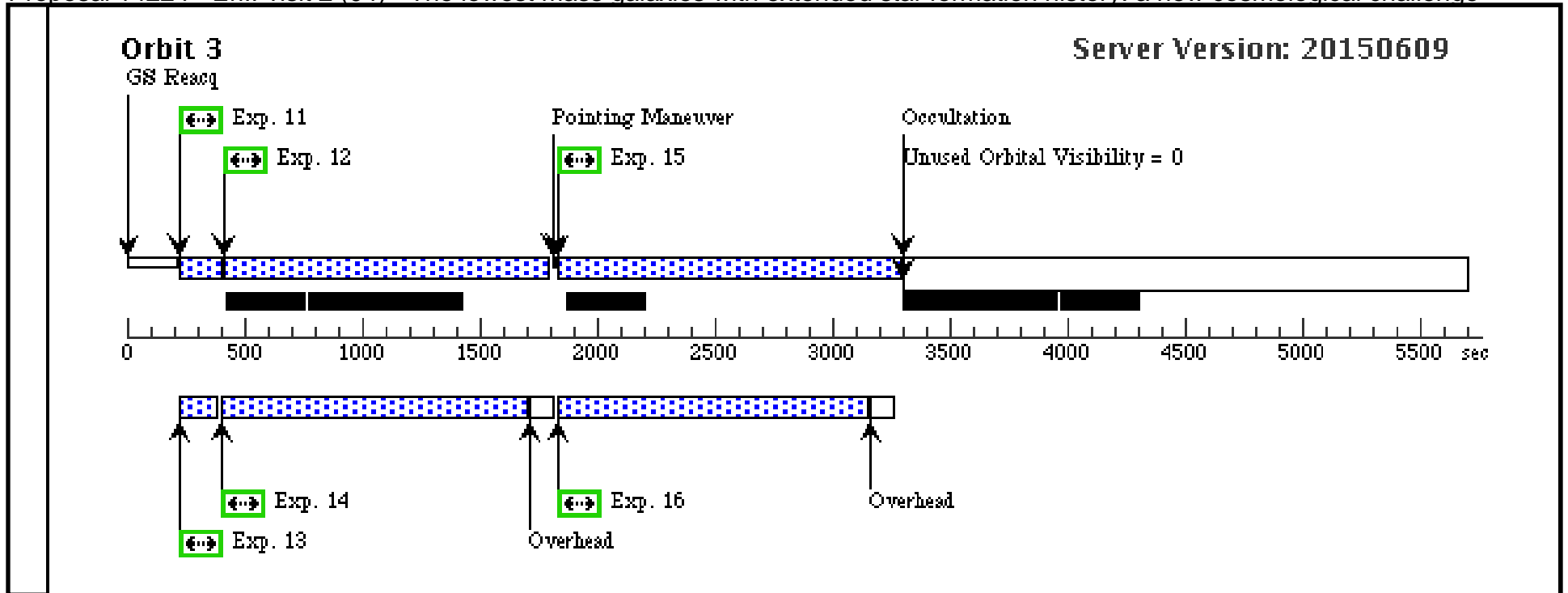
Proposal 14224 - Erill-visit 2 (04) - The lowest mass galaxies with extended star formation history: a new cosmological challenge

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	EriII-acs-47 5-dither7	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 0.2470,2 .9840	Sequence 1-4 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 1-2 in Sequence 1-4 Non-Int in EriII-visit 2 (04)	1257 Secs (1257 Secs) [==>]	[1]
	2	EriII-wfc3-4 75-dither7	ANY	WFC3/UVIS, ACCUM, UVIS	F475W	CR-SPLIT=NO		Sequence 1-4 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 1-2 in Sequence 1-4 Non-Int in EriII-visit 2 (04)	1300 Secs (1300 Secs) [==>]	[1]
	3	EriII-acs-81 4-dither8	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.4210,3 .1690	Sequence 1-4 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 3-4 in Sequence 1-4 Non-Int in EriII-visit 2 (04)	1300 Secs (1300 Secs) [==>]	[1]
	4	EriII-wfc3-8 14-dither8	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 3-4 in Sequence 1-4 Non-Int in EriII-visit 2 (04)	1300 Secs (1300 Secs) [==>]	[1]
	5	EriII-acs-81 4s-dither9	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.5702,3 .1075	Sequence 5-10 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 5-8 in Sequence 5-10 Non-Int in EriII-visit 2 (04)	50 Secs (50 Secs) [==>]	[2]
	6	EriII-acs-81 4-dither9	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.5702,3 .1075	Sequence 5-10 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 5-8 in Sequence 5-10 Non-Int in EriII-visit 2 (04)	1300 Secs (1300 Secs) [==>]	[2]
	7	EriII-wfc3-8 14s-dither9	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO; FLASH=10		Sequence 5-10 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 5-8 in Sequence 5-10 Non-Int in EriII-visit 2 (04)	50 Secs (50 Secs) [==>]	[2]
	8	EriII-wfc3-8 14-dither9	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 5-10 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 5-8 in Sequence 5-10 Non-Int in EriII-visit 2 (04)	1300 Secs (1300 Secs) [==>]	[2]

Proposal 14224 - Erill-visit 2 (04) - The lowest mass galaxies with extended star formation history: a new cosmological challenge

9	EriII-acs-47 5-dither10	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 0.3475,3 .3145	Sequence 5-10 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 9-10 in Sequence 5-10 Non-Int in EriII-visit 2 (04)	1257 Secs (1257 Secs) [==>]	[2]
10	EriII-wfc3-4 75-dither10	ANY	WFC3/UVIS, ACCUM, UVIS	F475W	CR-SPLIT=NO		Sequence 5-10 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 9-10 in Sequence 5-10 Non-Int in EriII-visit 2 (04)	1300 Secs (1300 Secs) [==>]	[2]
11	EriII-acs-47 5s-dither11	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 0.7500,3 .0300	Sequence 11-16 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 11-14 in Sequence 11-16 Non-Int in EriII-visit 2 (04)	51 Secs (51 Secs) [==>]	[3]
12	EriII-acs-47 5-dither11	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 0.7500,3 .0300	Sequence 11-16 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 11-14 in Sequence 11-16 Non-Int in EriII-visit 2 (04)	1257 Secs (1257 Secs) [==>]	[3]
13	EriII-wfc3-4 75s-dither11	ANY	WFC3/UVIS, ACCUM, UVIS	F475W	CR-SPLIT=NO; FLASH=11.0		Sequence 11-16 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 11-14 in Sequence 11-16 Non-Int in EriII-visit 2 (04)	40 Secs (40 Secs) [==>]	[3]
14	EriII-wfc3-4 75-dither11	ANY	WFC3/UVIS, ACCUM, UVIS	F475W	CR-SPLIT=NO		Sequence 11-16 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 11-14 in Sequence 11-16 Non-Int in EriII-visit 2 (04)	1300 Secs (1300 Secs) [==>]	[3]
15	EriII-acs-81 4-dither12	(2) ERIDANUS2	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.9240,3 .2150	Sequence 11-16 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 15-16 in Sequence 11-16 Non-Int in EriII-visit 2 (04)	1300 Secs (1300 Secs) [==>]	[3]
16	EriII-wfc3-8 14-dither12	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 11-16 Non-Int in EriII-visit 2 (04) Prime + Parallel Group 15-16 in Sequence 11-16 Non-Int in EriII-visit 2 (04)	1300 Secs (1300 Secs) [==>]	[3]





Proposal 14224 - Hydrall (05) - The lowest mass galaxies with extended star formation history: a new cosmological challenge

Sat Jul 25 02:45:46 GMT 2015

Visit	Proposal 14224, HydraII (05) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none) <i>Comments: The orbit is organized as two prime + parallel groups. There is a dither between the two groups. Each group has one exposure in each F475W and F814W bands, of equal duration, for the ACS, and a single exposure for the WFC3 in parallel. In the first group the filter for the parallel is F814W and in the second group it is F475W. This visit can have any orientation.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	HYDRA2	RA: 12 21 42.1000 (185.4254167d) Dec: -31 59 7.00 (-31.98528d) Equinox: J2000		V=15.8	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HydraII	(3) HYDRA2	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.0,0.0	Sequence 1-6 Non-Int in HydraII (05) Prime + Parallel Group 1-3 in Sequence 1-6 Non-Int in HydraII (05)	535 Secs (535 Secs) [==>]	[1]
	2	HydraII	(3) HYDRA2	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 0.0,0.0	Sequence 1-6 Non-Int in HydraII (05) Prime + Parallel Group 1-3 in Sequence 1-6 Non-Int in HydraII (05)	535 Secs (535 Secs) [==>]	[1]
	3	HydraII	ANY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Sequence 1-6 Non-Int in HydraII (05) Prime + Parallel Group 1-3 in Sequence 1-6 Non-Int in HydraII (05)	1300 Secs (1300 Secs) [==>]	[1]
	4	HydraII_dither	(3) HYDRA2	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 0.1740,0.1850	Sequence 1-6 Non-Int in HydraII (05) Prime + Parallel Group 4-6 in Sequence 1-6 Non-Int in HydraII (05)	535 Secs (535 Secs) [==>]	[1]
	5	HydraII_dither	(3) HYDRA2	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 0.1740,0.1850	Sequence 1-6 Non-Int in HydraII (05) Prime + Parallel Group 4-6 in Sequence 1-6 Non-Int in HydraII (05)	534 Secs (534 Secs) [==>]	[1]
6	HydraII_dither	ANY	WFC3/UVIS, ACCUM, UVIS	F475W	CR-SPLIT=NO		Sequence 1-6 Non-Int in HydraII (05) Prime + Parallel Group 4-6 in Sequence 1-6 Non-Int in HydraII (05)	1300 Secs (1300 Secs) [==>]	[1]	

