



16104 - ULLYSES UV Pre-imaging of Sextans A and NGC 3109 Targets

Cycle: 27, Proposal Category: GO/DD

(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	(10) NGC-3109-V01	WFC3/UVIS	2	15-Mar-2021 17:00:30.0	yes
02	(100) NGC-3109-V02	WFC3/UVIS	2	15-Mar-2021 17:00:32.0	yes
03	(2) SEXTANS-A	WFC3/UVIS	2	15-Mar-2021 17:00:33.0	yes

6 Total Orbits Used

ABSTRACT

The Space Telescope Science Institute (STScI) Director has decided to devote up to 1000 orbits of Director's Discretionary time in observing Cycles 27-29 to a new Hubble Ultraviolet Legacy program focused on star formation and associated stellar physics. This new program, ULLYSES (UV Legacy Library of Young Stars as Essential Standards), will provide a UV spectroscopic reference sample of young (< 10 Myr) high- and low-mass stars. It will target over ~150 OB stars in the Magellanic Clouds and lower metallicity galaxies in the Local Group, and ~40 T Tauri stars and brown dwarfs in the Milky Way. In addition, ULLYSES will monitor 4 typical T Tauri stars over different rotational phases through at least three rotation periods, and over timescales of months to years. The resulting library will provide template spectra of massive stars at metallicities substantially below the well studied, while the low mass sample will cover a wide range of ages, accretion rates, and masses, including objects down to well below 0.5 M_{sun}. The legacy of this large UV dataset on the first 10 Myr of stellar evolution will be enhanced by complementary datasets obtained by the scientific community. In addition to the core goals of the program related to stellar astrophysics of low and high mass stars, this data will also enable exciting science in the fields of ISM, CGM, jets, and exoplanets. ULLYSES will be modeled after the Frontier Fields program: all data obtained will be non-proprietary. The implementation team at STScI is developing high-level science data products and a sophisticated database and website for disseminating data from the ULLYSES program and ancillary datasets for the ULLYSES target sample from space and ground-based facilities.

This specific program is performing WFC3/UVIS pre-imaging of two low-metallicity galaxies, Sextans A and NGC 3109, where 6 of the ULLYSES targets are located. This pre-imaging in several broadband WFC3/UVIS filters will be used to better constrain the reddening towards the ULLYSES targets and more precisely estimate the exposure times for the follow-up UV spectroscopic observations.

OBSERVING DESCRIPTION

This proposal includes pre-imaging of a subset of the massive ULLYSES stars being observed in the low-metallicity nearby galaxies NGC 3109 and Sextans A. The two galaxies will be imaged in 5 filters of WFC3 covering the NUV-NIR. This will allow us to derive stellar photometric catalogs, accurate brightness of the ULLYSES targets in the bluest filter used (F225W) covering the FUV wavelength range and ultimately dust extinction towards the targets.

The actual sources for which follow-on ULLYSES spectroscopy is intended are included as unused targets to allow their locations to be easily visualized.

Observations in each filters will be taken with a 2-point dither pattern to cover the chip gap, mitigate hot/bad pixels, and better sample the point-spread function for more accurate photometry in crowded fields. Due to the distribution of the ULLYSES stars in NGC 3109, this galaxy will be observed with a mosaic of two pointings.

Additional details about the scientific motivation and technical implementation strategy of the ULLYSES observations can be found at <http://www.stsci.edu/stsci-research/research-topics-and-programs/ullyses>. The ULLYSES program is based on the recommendations of a working group led by Sally Oey; the full text of that group's report can be found at http://www.stsci.edu/files/live/sites/www/files/home/stsci-research/research-topics-and-programs/ullyses/_documents/HSTUV-report-ULLYSES.pdf.

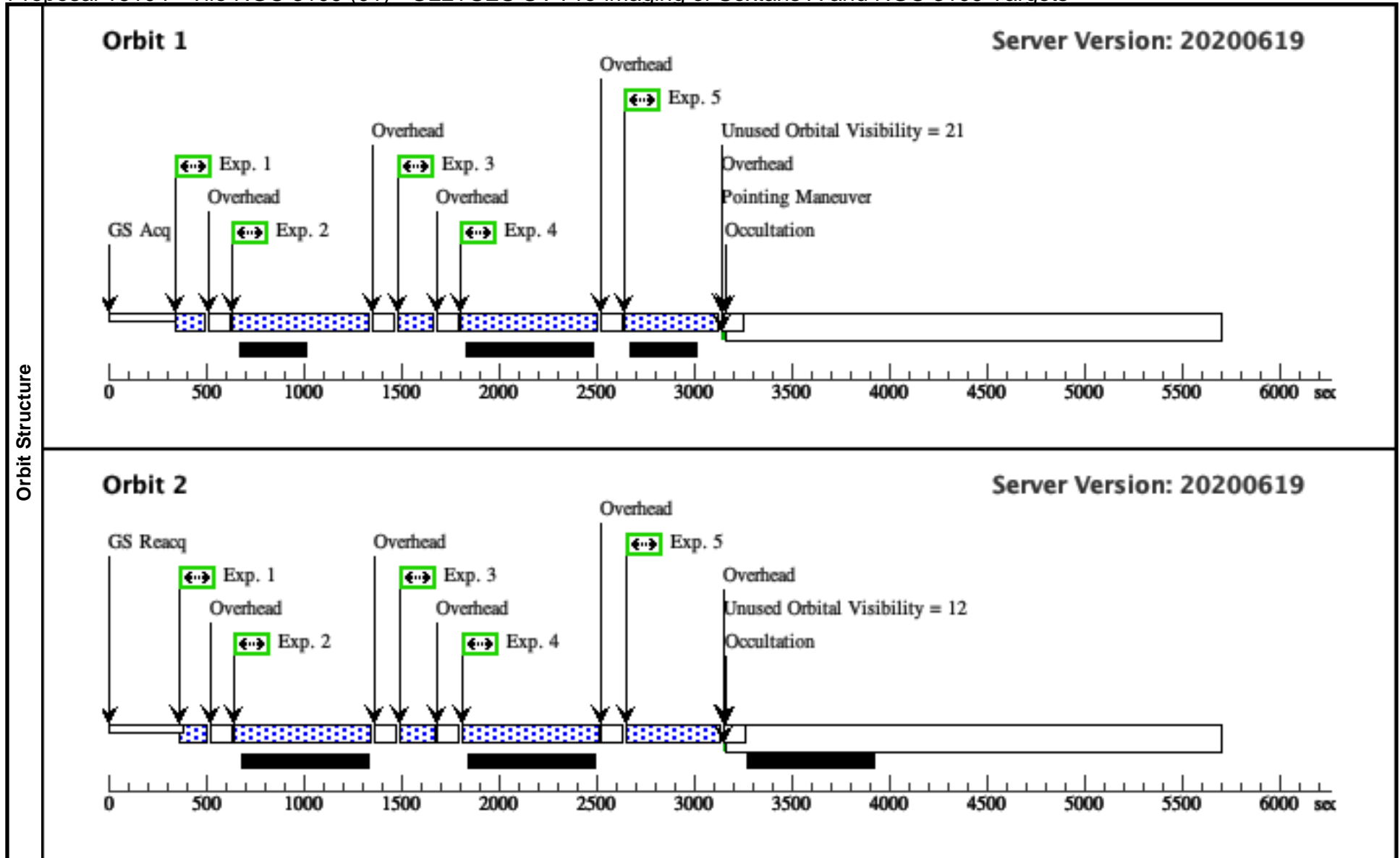
Proposal 16104 - Tile NGC 3109 (01) - ULLYSES UV Pre-imaging of Sextans A and NGC 3109 Targets

Mon Mar 15 21:00:33 GMT 2021

Visit	Proposal 16104, Tile NGC 3109 (01), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 270D TO 275 D <i>Comments: vstatus: 01; NGC-3109-V01; P/WFC3 Approved for Submission;P/AA 20/07/20 ; intrev: Complete ; P/TS 08/13/20</i>														
	Diagnosics (NGC3109_1_F814W (01.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (NGC3109_1_F814W (01.001) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (NGC3109_1_F275W (01.002)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (NGC3109_1_F275W (01.002) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (NGC3109_1_F475W (01.003)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (NGC3109_1_F475W (01.003) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (NGC3109_1_F225W (01.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (NGC3109_1_F225W (01.004) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (NGC3109_1_F336W (01.005)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (NGC3109_1_F336W (01.005) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes														
Patterns	<table border="1"> <thead> <tr> <th>#</th> <th>Primary Pattern</th> <th>Secondary Pattern</th> <th>Exposures</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td> Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing= </td> <td></td> <td>(1-5)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1-5)						
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Proposal 16104 - Tile NGC 3109 (01) - ULLYSES UV Pre-imaging of Sextans A and NGC 3109 Targets

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	NGC3109_1 (10) _F814W (WFC3UVI S.im.145649 2)	NGC-3109-V01 WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=17.0	POS TARG 0.0,0.0	Pattern 1, Exps 1-5 in Tile NGC 3109 (01) (1)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456487 WFC3UVIS.im.1456492 WFC3UVIS.im.1456497</i>								
	2	NGC3109_1 (10) _F275W (WFC3UVI S.im.145648 9)	NGC-3109-V01 WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=19.0	POS TARG 0.0,0.0	Pattern 1, Exps 1-5 in Tile NGC 3109 (01) (1)	680 Secs (1360 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456484 WFC3UVIS.im.1456489 WFC3UVIS.im.1456494</i>								
	3	NGC3109_1 (10) _F475W (WFC3UVI S.im.145649 1)	NGC-3109-V01 WFC3/UVIS, ACCUM, UVIS-CENTER	F475W	FLASH=17.0	POS TARG 0.0,0.0	Pattern 1, Exps 1-5 in Tile NGC 3109 (01) (1)	160 Secs (320 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456486 WFC3UVIS.im.1456491 WFC3UVIS.im.1456496</i>								
	4	NGC3109_1 (10) _F225W (WFC3UVI S.im.145648 8)	NGC-3109-V01 WFC3/UVIS, ACCUM, UVIS-CENTER	F225W	FLASH=19.0	POS TARG 0.0,0.0	Pattern 1, Exps 1-5 in Tile NGC 3109 (01) (1)	680 Secs (1360 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456483 WFC3UVIS.im.1456488 WFC3UVIS.im.1456493</i>								
	5	NGC3109_1 (10) _F336W (WFC3UVI S.im.145649 0)	NGC-3109-V01 WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=19.0	POS TARG 0.0,0.0	Pattern 1, Exps 1-5 in Tile NGC 3109 (01) (1)	460 Secs (920 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456485 WFC3UVIS.im.1456490 WFC3UVIS.im.1456495</i>								



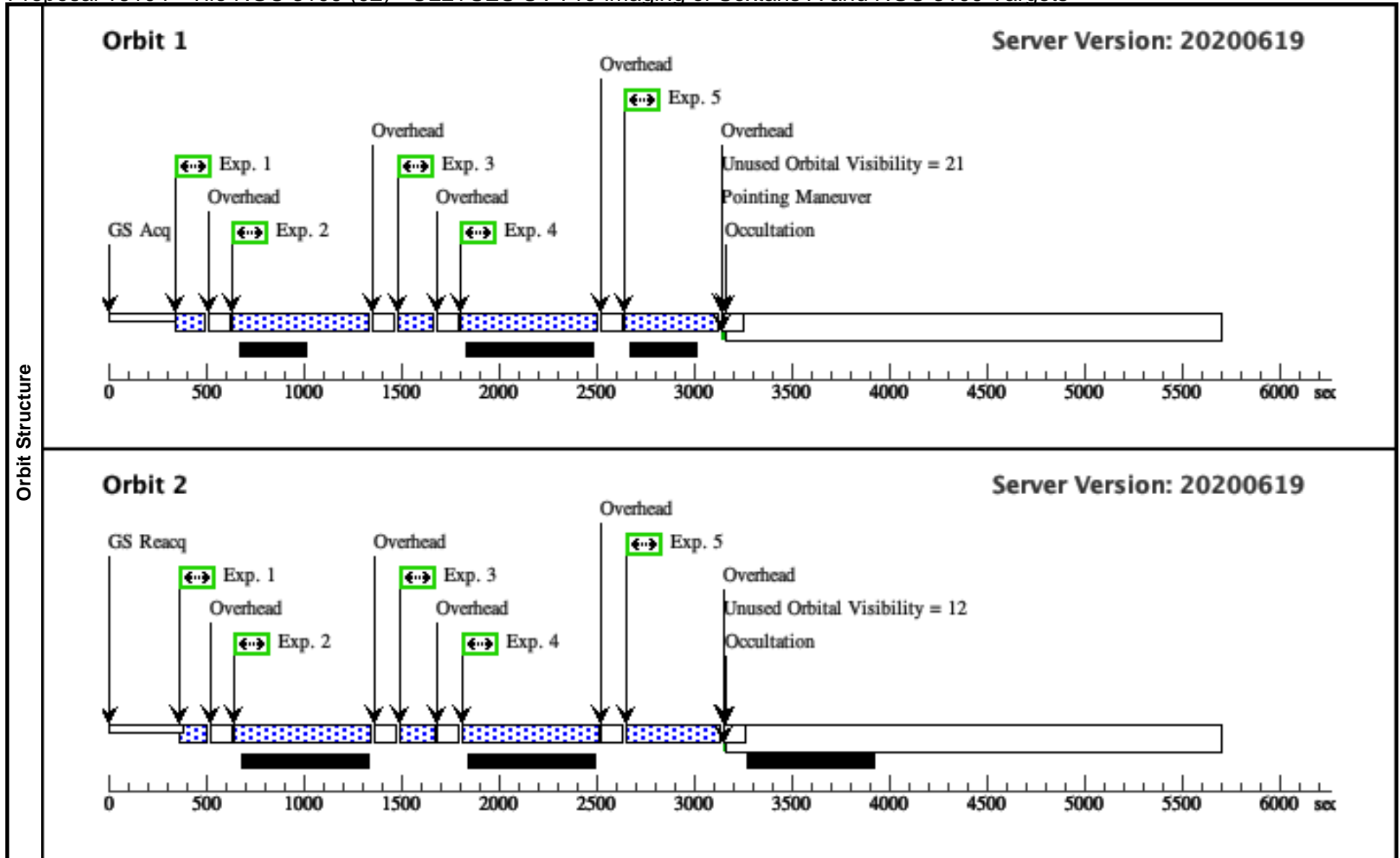
Proposal 16104 - Tile NGC 3109 (02) - ULLYSES UV Pre-imaging of Sextans A and NGC 3109 Targets

Mon Mar 15 21:00:34 GMT 2021

Visit	<p>Proposal 16104, Tile NGC 3109 (02), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: SAME ORIENT AS 01</p> <p><i>Comments: vstatus: 02; NGC-3109-V02; P/WFC3 Approved for Submission; P/AA 20/07/20 ; intrev: Complete ; P/TS 08/13/20</i></p>															
	<p>(NGC3109_1_F814W (02.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser</p> <p>(NGC3109_1_F814W (02.001) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes</p> <p>(NGC3109_1_F275W (02.002)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser</p> <p>(NGC3109_1_F275W (02.002) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes</p> <p>(NGC3109_1_F475W (02.003)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser</p> <p>(NGC3109_1_F475W (02.003) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes</p> <p>(NGC3109_1_F225W (02.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser</p> <p>(NGC3109_1_F225W (02.004) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes</p> <p>(NGC3109_1_F336W (02.005)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser</p> <p>(NGC3109_1_F336W (02.005) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes</p>															
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous										
(100)	NGC-3109-V02	RA: 10 03 0.1838 (150.7507658d) Dec: -26 08 55.60 (-26.14878d) Equinox: J2000		V=10.5+/-0.2	Reference Frame: NED											
<p><i>Comments: tstatus; NGC-3109-V02; P/WFC3 Approved for Submission; S/N/A not started; P/AA 20/07/20; S/xx DD/MM/YY</i></p> <p><i>V magnitude was retrieved from the HyperLeda database at:</i></p> <p><i>http://leda.univ-lyon1.fr/ledacat.cgi?PGC+029128++++</i></p> <p><i>This field contains targets:</i></p> <p><i>+++NGC3109-E07 (RA = 10h02m54.69s, DEC = -26d08m59.64s)</i></p> <p><i>E07 is a B0-1 Ia with V = 18.69 and E(B-V) = 0.09</i></p> <p><i>+++NGC3109-E20 (RA = 10h03m03.22s, DEC = -26d09m21.41s)</i></p> <p><i>E20 is an O8I with V = 19.33 and E(B-V) = 0.17</i></p> <p><i>Target information is from Evans+2007 (2007ApJ...659.1198E)</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[MAGELLANIC IRREGULAR, STAR FORMING REGION]</i></p>																

Proposal 16104 - Tile NGC 3109 (02) - ULLYSES UV Pre-imaging of Sextans A and NGC 3109 Targets

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	NGC3109_1 _F814W (WFC3UVI S.im.145649 2)	(100) NGC-3109-V0 2 WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=17.0	POS TARG 0.0,0.0	Pattern 1, Exps 1-5 i n Tile NGC 3109 (02) (1)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]	
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456487 WFC3UVIS.im.1456492 WFC3UVIS.im.1456497</i>									
	2	NGC3109_1 _F275W (WFC3UVI S.im.145648 9)	(100) NGC-3109-V0 2 WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=19.0	POS TARG 0.0,0.0	Pattern 1, Exps 1-5 i n Tile NGC 3109 (02) (1)	680 Secs (1360 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]	
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456484 WFC3UVIS.im.1456489 WFC3UVIS.im.1456494</i>									
	3	NGC3109_1 _F475W (WFC3UVI S.im.145649 1)	(100) NGC-3109-V0 2 WFC3/UVIS, ACCUM, UVIS-CENTER	F475W	FLASH=17.0	POS TARG 0.0,0.0	Pattern 1, Exps 1-5 i n Tile NGC 3109 (02) (1)	160 Secs (320 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]	
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456486 WFC3UVIS.im.1456491 WFC3UVIS.im.1456496</i>									
	4	NGC3109_1 _F225W (WFC3UVI S.im.145648 8)	(100) NGC-3109-V0 2 WFC3/UVIS, ACCUM, UVIS-CENTER	F225W	FLASH=19.0	POS TARG 0.0,0.0	Pattern 1, Exps 1-5 i n Tile NGC 3109 (02) (1)	680 Secs (1360 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]	
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456483 WFC3UVIS.im.1456488 WFC3UVIS.im.1456493</i>									
	5	NGC3109_1 _F336W (WFC3UVI S.im.145649 0)	(100) NGC-3109-V0 2 WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=19.0	POS TARG 0.0,0.0	Pattern 1, Exps 1-5 i n Tile NGC 3109 (02) (1)	460 Secs (920 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]	
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456485 WFC3UVIS.im.1456490 WFC3UVIS.im.1456495</i>									



Proposal 16104 - Sextans A (03) - ULLYSES UV Pre-imaging of Sextans A and NGC 3109 Targets

Mon Mar 15 21:00:34 GMT 2021

Visit	Proposal 16104, Sextans A (03), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 320D TO 60 D; ORIENT 140D TO 240 D <i>Comments: vstatus: 02; SEXTANS-A: P/WFC3 not started;P/AA 20/07/20 ; intrev: Complete ; P/TS 08/13/20</i>					
	Diagnosics (Sextans A (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (SextansA_F814W (03.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (SextansA_F275W (03.002)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (SextansA_F475W (03.003)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (SextansA_F225W (03.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (SextansA_F336W (03.005)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1-5)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	SEXTANS-A	RA: 10 11 2.4256 (152.7601067d) Dec: -04 42 46.35 (-4.71287d) Equinox: J2000 <i>Comments: tstatus; NGC-SEXTANS-A; P/WFC3 Approved for Submission; S/N/A not started; P/AA 20/07/20; S/xx DD/MM/YY</i> V magnitude was retrieved from the HyperLeda database at: http://leda.univ-lyon1.fr/ledacat.cgi?PGC+029653++++ This field contains all 3 Sextans A targets: +++ s2 (RA = 10h10m58.59s, DEC = -04d43m28.9s), O3-5 V, V = 20.8, E(B-V) = 0.22 +++ s4 (RA = 10h10m57.89s, DEC = -04d43m10.2s), O6z, V = 20.9, E(B-V) = 0.05 +++ s8 (RA = 10h11m05.69s, DEC = -04d42m13.6s), B0 I, V = 19.7, E(B-V) = 0.07 s2 and s4 are from Garcia+2019 (2019MNRAS.484..422G). s8 is from SAC member Garcia (priv. com, in prep). Category=GALAXY Description=[AMORPHOUS IRREGULAR, STAR FORMING REGION]		V=11.8+/-0.2	Reference Frame: NED

Proposal 16104 - Sextans A (03) - ULLYSES UV Pre-imaging of Sextans A and NGC 3109 Targets

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	SextansA_F (2) SEXTANS-A 814W (WFC3UVI S.im.145647 1)	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=17.0		Pattern 1, Exps 1-5 i n Sextans A (03) (1)	120 Secs (240 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]	
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456471 WFC3UVIS.im.1456476 WFC3UVIS.im.1456482</i>									
	2	SextansA_F (2) SEXTANS-A 275W (WFC3UVI S.im.145646 4)	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=19.0		Pattern 1, Exps 1-5 i n Sextans A (03) (1)	680 Secs (1360 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]	
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456464 WFC3UVIS.im.1456473 WFC3UVIS.im.1456478</i>									
	3	SextansA_F (2) SEXTANS-A 475W (WFC3UVI S.im.145647 0)	WFC3/UVIS, ACCUM, UVIS-CENTER	F475W	FLASH=17.0		Pattern 1, Exps 1-5 i n Sextans A (03) (1)	160 Secs (320 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]	
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456470 WFC3UVIS.im.1456475 WFC3UVIS.im.1456481</i>									
	4	SextansA_F (2) SEXTANS-A 225W (WFC3UVI S.im.145646 3)	WFC3/UVIS, ACCUM, UVIS-CENTER	F225W	FLASH=19.0		Pattern 1, Exps 1-5 i n Sextans A (03) (1)	680 Secs (1360 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]	
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456463 WFC3UVIS.im.1456472 WFC3UVIS.im.1456477</i>									
	5	SextansA_F (2) SEXTANS-A 336W (WFC3UVI S.im.145646 7)	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=19.0		Pattern 1, Exps 1-5 i n Sextans A (03) (1)	451 Secs (902 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1] [2]	
	<i>Comments: ETCs for all 3 targets: WFC3UVIS.im.1456467 WFC3UVIS.im.1456474 WFC3UVIS.im.1456479</i>									

