



16292 - Probing the Sources of Reionization: First Measurement of the Escape Fraction of Ionizing Photons in Dwarf Galaxies Fainter than $M_{UV} = -13$

Cycle: 28, Proposal Category: GO

(UV Initiative)

(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) NAME-CVN-I-DWA	WFC3/UVIS	2	24-Jun-2021 13:00:18.0	yes
02	(1) NAME-CVN-I-DWA	WFC3/UVIS	1	24-Jun-2021 13:00:19.0	yes
03	(1) NAME-CVN-I-DWA	WFC3/UVIS	1	24-Jun-2021 13:00:20.0	yes
04	(1) NAME-CVN-I-DWA	WFC3/IR WFC3/UVIS	1	24-Jun-2021 13:00:20.0	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>
05	(1) NAME-CVN-I-DWA	WFC3/UVIS	1	24-Jun-2021 13:00:21.0	yes
06	(2) UGC-8091	WFC3/UVIS	1	24-Jun-2021 13:00:22.0	yes
07	(2) UGC-8091	WFC3/IR	1	24-Jun-2021 13:00:22.0	yes
57	(2) UGC-8091	WFC3/IR	1	24-Jun-2021 13:00:23.0	yes
08	(2) UGC-8091	WFC3/IR WFC3/UVIS	1	24-Jun-2021 13:00:24.0	yes
58	(2) UGC-8091	WFC3/IR WFC3/UVIS	1	24-Jun-2021 13:00:24.0	yes
09	(2) UGC-8091	WFC3/UVIS	1	24-Jun-2021 13:00:25.0	yes
10	(2) UGC-8091	WFC3/UVIS	1	24-Jun-2021 13:00:26.0	yes
11	(2) UGC-8091	WFC3/UVIS	1	24-Jun-2021 13:00:26.0	yes
61	(2) UGC-8091	WFC3/UVIS	1	24-Jun-2021 13:00:27.0	yes
12	(2) UGC-8091	WFC3/UVIS	1	24-Jun-2021 13:00:27.0	yes

16 Total Orbits Used

ABSTRACT

The observed rest-frame ultraviolet luminosity function (UV LF) of star-forming galaxies at $z > 6$ suggests that numerous low mass galaxies were responsible for reionizing the Universe by $z \sim 6$. In the current reionization models, however, the required escape fraction of ionizing photons (f_{esc}) significantly depends on the faint-end limiting magnitude of the UV LF. Unfortunately, there are no observational constraints on f_{esc} in this UV-faint regime; all galaxies with f_{esc} measurements are brighter than $M_{\text{UV}} = -16$. Thus, constraining f_{esc} for galaxies around the fiducial limiting magnitude ($M_{\text{UV}} = -13$) are crucial to understand the role of faint galaxies in cosmic reionization, but they are too faint to be observed at $z > 7$ even with JWST.

We propose to obtain multi-wavelength HST imaging of two nearby, metal-poor starburst dwarf galaxies (UGC 8091 and UGCA 292) that are fainter than $M_{\text{UV}} = -13$. With these observations, we will: (1) measure the global escape fraction for galaxies below the limiting magnitude for the first time using their resolved stars; (2) map the local escape fraction in each galaxy; and (3) explore the relation between local escape fraction and physical environments. Establishing the relationships between local escape fraction and physical properties will greatly improve our understanding on the mechanisms for escape of ionizing photons. Furthermore, those relationships can be used to infer the escape fractions of high- z galaxies that can not

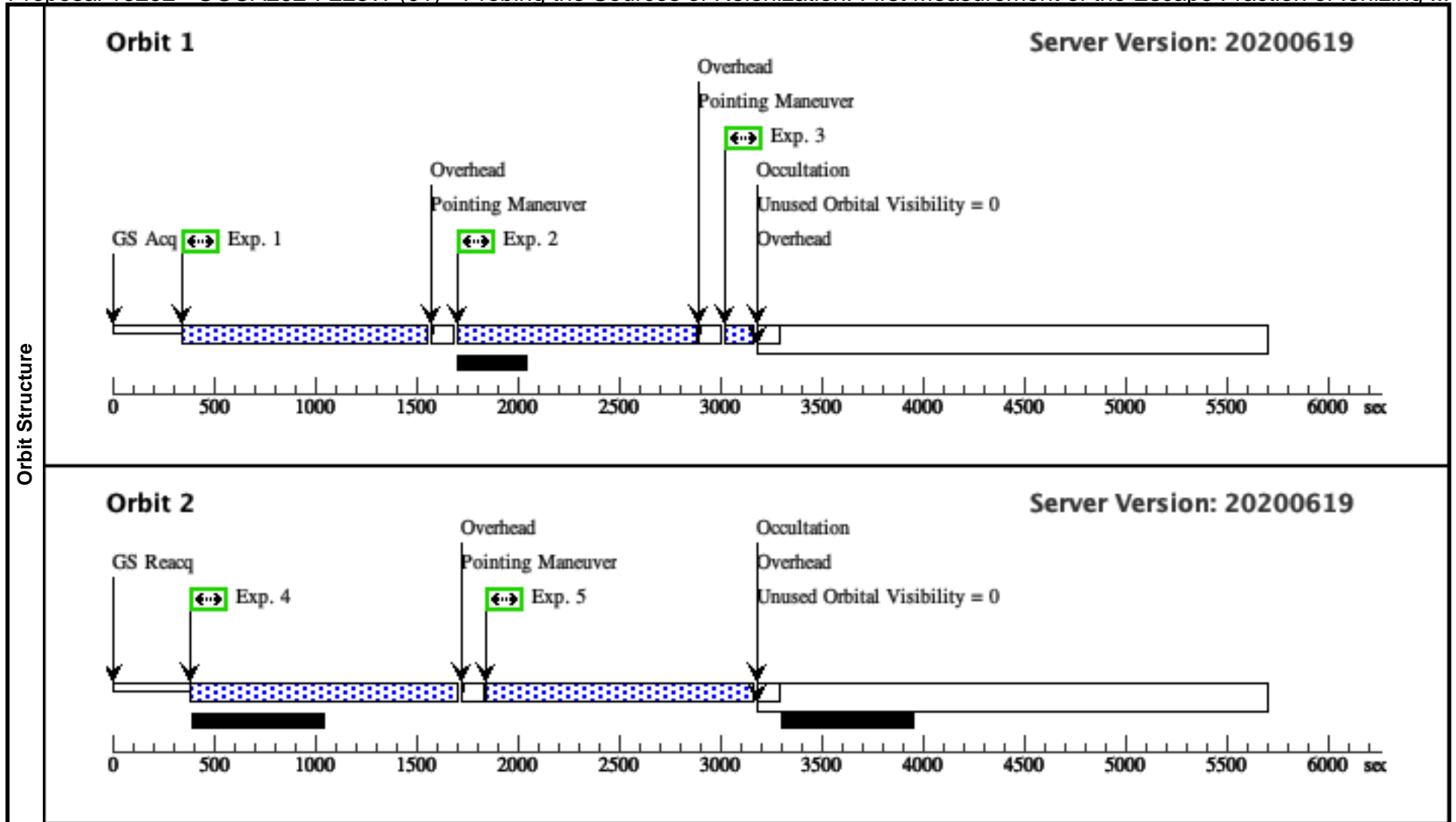
be resolved, but with measured physical galactic properties. As a pilot program, we will pave the way to probe the contribution of extreme UV-faint dwarf galaxies to cosmic reionization.

OBSERVING DESCRIPTION

The archival UV imaging with WFC3/UVIS (from GO-15275) for both galaxies have depth to detect intermediate B-type main-sequence (MS) stars ($M_V = -0.5$) with signal-to-noise ratio (SNR) > 5 in F275W and F336W. Since 99% of ionizing photons are produced by MS stars hotter than early B-type, requesting the same depth in new F225W observations to detect intermediate B-type stars with SNR > 5 will assure detection of most hot ionizing stars even if some of them suffer from significant amount of dust extinction. We also request to obtain WFC3/IR observations of UGC 8091 for directly observing intermediate B-type stars with SNR > 5 in F110W and F160W. Our narrow-band observations (Ha, Hb, [OIII], and [OII]) to study the ISM are designed to produce compatible SNRs to those for NGC 4214 from the previous program (GO-11360). We take medium-band imaging in F621M for continuum subtraction at Ha.

Proposal 16292 - UGCA292-F225W (01) - Probing the Sources of Reionization: First Measurement of the Escape Fraction of Ionizing ...

Visit	Proposal 16292, UGCA292-F225W (01), completed Thu Jun 24 17:00:28 GMT 2021 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 274D TO 274 D; ORIENT 94D TO 94 D																																																																
	Diagnosics (UGCA292-F225W-1 (01.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F225W-2 (01.002)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F225W-3 (01.003)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F225W-4 (01.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F225W-5 (01.005)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser																																																																
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>(1)</td> <td>NAME-CVN-I-DWA</td> <td>RA: 12 38 43.1237 (189.6796821d) Dec: +32 45 31.53 (32.75876d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td>V=16.73</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[STARBURST]</i></p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	NAME-CVN-I-DWA	RA: 12 38 43.1237 (189.6796821d) Dec: +32 45 31.53 (32.75876d) Equinox: J2000	Epoch of Position: 2015.5	V=16.73	Reference Frame: SIMBAD																																															
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1	UGCA292-F225W-1	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F225W	FLASH=17; CR-SPLIT=NO	POS TARG 0,0		1100 Secs (1183 Secs) [=>1183.0 Secs]	[1]																																																								
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3	UGCA292-F225W-3	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F225W	FLASH=20	POS TARG 0.099,0.165		60 Secs (144 Secs) [=>144.0 Secs]	[1]																																																								
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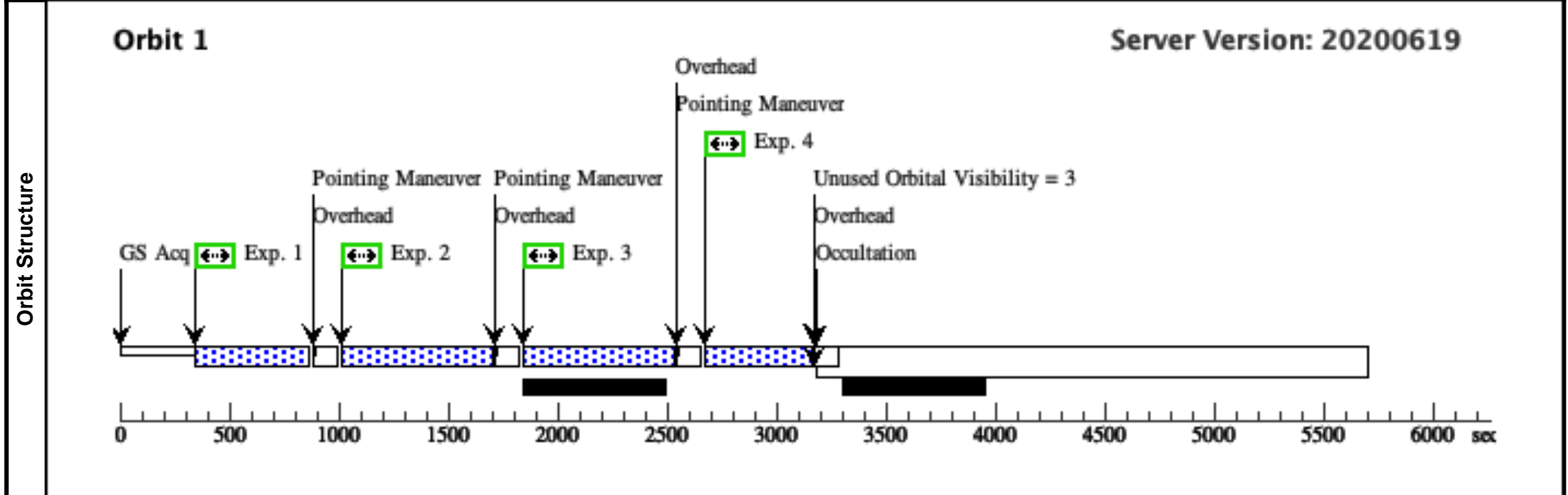
Visit	Proposal 16292, UGCA292-F373N-F621M (02), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 01									
	(UGCA292-F621M-1 (02.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F373N-1 (02.002)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F373N-2 (02.003)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F621M-2 (02.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NAME-CVN-I-DWA	RA: 12 38 43.1237 (189.6796821d) Dec: +32 45 31.53 (32.75876d) Equinox: J2000	Epoch of Position: 2015.5	V=16.73	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[STARBURST]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	UGCA292-F621M-1	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F621M	FLASH=17	POS TARG 0,0		350 Secs (307 Secs) [=>307.0 Secs]	[1]
	2	UGCA292-F373N-1	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F373N	FLASH=19	POS TARG 0,0		900 Secs (857 Secs) [=>857.0 Secs]	[1]
	3	UGCA292-F373N-2	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F373N	FLASH=19	POS TARG 0.099,0.106		900 Secs (857 Secs) [=>857.0 Secs]	[1]
	4	UGCA292-F621M-2	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F621M	FLASH=17	POS TARG 0.099,0.106		350 Secs (307 Secs) [=>307.0 Secs]	[1]
Orbit Structure	Server Version: 20200619									
	<p>The diagram illustrates the orbit structure over a 6000-second period. Key events include:</p> <ul style="list-style-type: none"> GS Acq: Ground Station Acquisition at approximately 100 seconds. Exp. 1: Exposure 1 starting at ~350s, with overhead at ~450s. Exp. 2: Exposure 2 starting at ~850s, with overhead at ~950s. Exp. 3: Exposure 3 starting at ~1850s, with overhead at ~1950s. Pointing Maneuver: Occurs between 1950s and 2050s. Exp. 4: Exposure 4 starting at ~2850s, with overhead at ~2950s. Occultation: A period of unusable orbital visibility from approximately 3200s to 4000s. 									

Visit	Proposal 16292, UGCA292-F487N (03), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 01
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Diagnostics	(UGCA292-F487N-1 (03.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser
	(UGCA292-F487N-2 (03.002)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser
	(UGCA292-F487N-3 (03.003)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser
	(UGCA292-F487N-4 (03.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser

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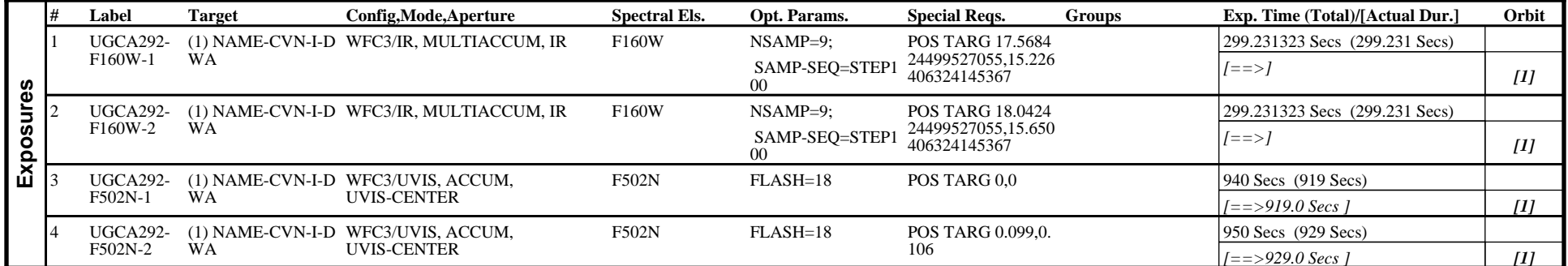
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	UGCA292-F487N-1	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F487N	FLASH=19	POS TARG 0,0		500 Secs (493 Secs) [=>493.0 Secs]	[1]
2	UGCA292-F487N-2	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F487N	FLASH=19	POS TARG 0.158,0.07		700 Secs (693 Secs) [=>693.0 Secs]	[1]	
3	UGCA292-F487N-3	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F487N	FLASH=19	POS TARG 0.099,0.165		700 Secs (693 Secs) [=>693.0 Secs]	[1]	
4	UGCA292-F487N-4	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F487N	FLASH=19	POS TARG -0.06,0.095		500 Secs (493 Secs) [=>493.0 Secs]	[1]	



Visit	Proposal 16292, UGCA292-F502N-F160W (04), completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ORIENT 274D TO 274 D
	(UGCA292-F502N-1 (04.003)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F502N-2 (04.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser

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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	UGCA292-F160W-1	(1) NAME-CVN-I-DWA	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=9; SAMP-SEQ=STEP100	POS TARG 17.5684 24499527055,15.226 406324145367		299.231323 Secs (299.231 Secs) [==>]	[1]
2	UGCA292-F160W-2	(1) NAME-CVN-I-DWA	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=9; SAMP-SEQ=STEP100	POS TARG 18.0424 24499527055,15.650 406324145367		299.231323 Secs (299.231 Secs) [==>]	[1]
3	UGCA292-F502N-1	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F502N	FLASH=18	POS TARG 0,0		940 Secs (919 Secs) [==>919.0 Secs]	[1]
4	UGCA292-F502N-2	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F502N	FLASH=18	POS TARG 0.099,0.106		950 Secs (929 Secs) [==>929.0 Secs]	[1]

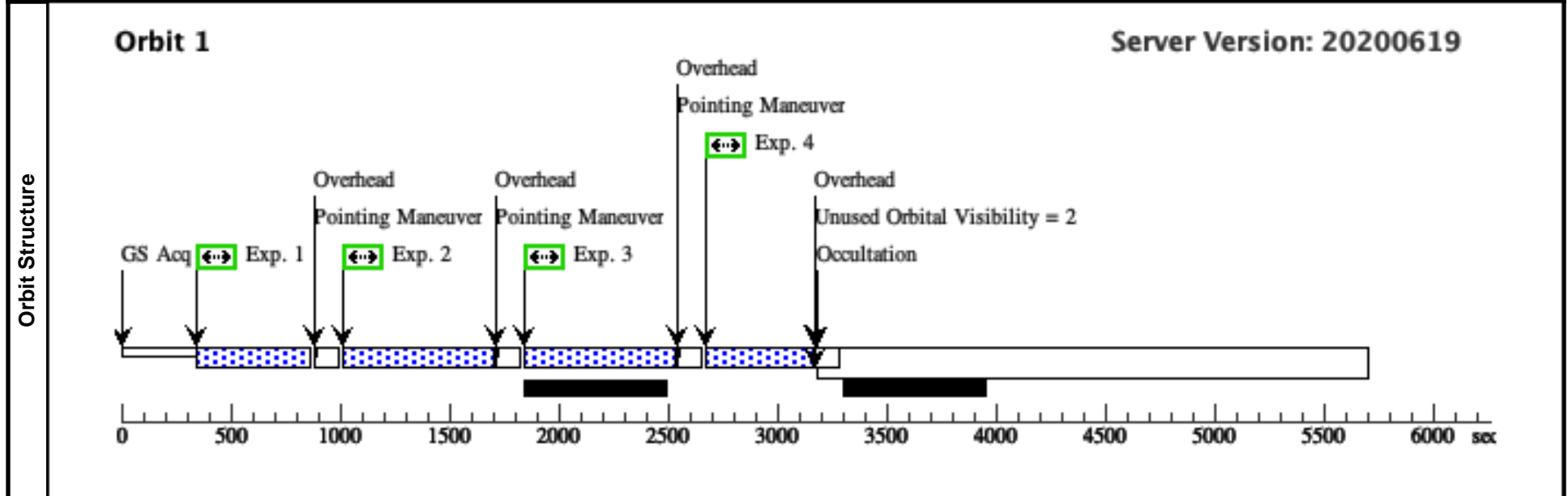


Visit	Proposal 16292, UGCA292-F656N (05), completed
	Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 01
	(UGCA292-F656N-1 (05.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F656N-2 (05.002)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F656N-3 (05.003)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F656N-4 (05.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser

Diagnosics	(UGCA292-F656N-1 (05.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F656N-2 (05.002)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F656N-3 (05.003)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGCA292-F656N-4 (05.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser
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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>(1)</td> <td>NAME-CVN-I-DWA</td> <td>RA: 12 38 43.1237 (189.6796821d) Dec: +32 45 31.53 (32.75876d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td>V=16.73</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	NAME-CVN-I-DWA	RA: 12 38 43.1237 (189.6796821d) Dec: +32 45 31.53 (32.75876d) Equinox: J2000	Epoch of Position: 2015.5	V=16.73	Reference Frame: SIMBAD
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(1)	NAME-CVN-I-DWA	RA: 12 38 43.1237 (189.6796821d) Dec: +32 45 31.53 (32.75876d) Equinox: J2000	Epoch of Position: 2015.5	V=16.73	Reference Frame: SIMBAD								
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[STARBURST]													

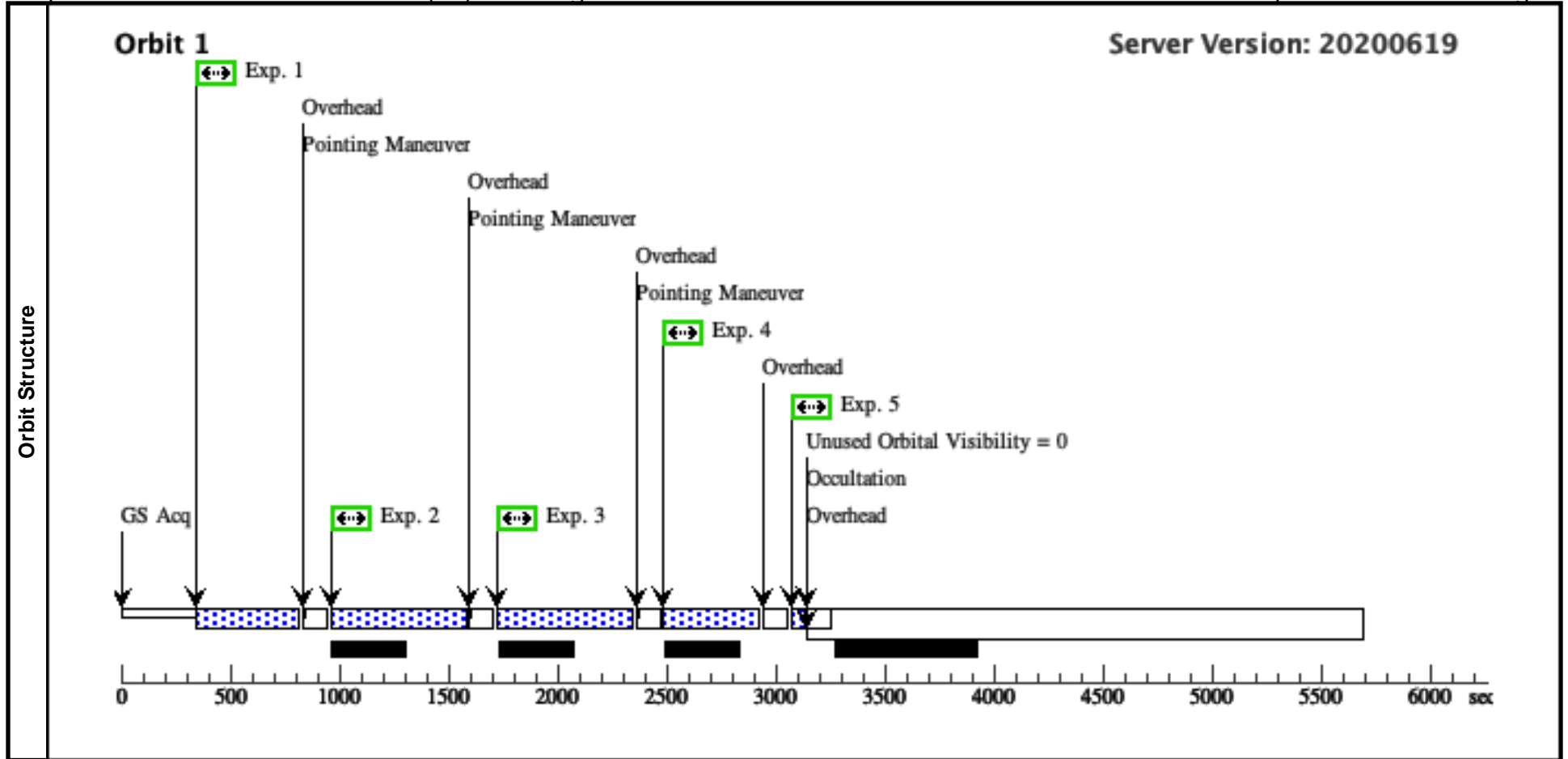
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	UGCA292-F656N-1	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=20	POS TARG 0,0			500 Secs (493 Secs) [=>493.0 Secs]
2	UGCA292-F656N-2	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=19	POS TARG 0.158,0.07			700 Secs (693 Secs) [=>693.0 Secs]	[1]
3	UGCA292-F656N-3	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=19	POS TARG 0.099,0.165			700 Secs (693 Secs) [=>693.0 Secs]	[1]
4	UGCA292-F656N-4	(1) NAME-CVN-I-DWA	WFC3/UVIS, ACCUM, UVIS-CENTER	F656N	FLASH=20	POS TARG -0.060,0.095			500 Secs (493 Secs) [=>493.0 Secs]	[1]



Proposal 16292 - UGC8091-F225W (06) - Probing the Sources of Reionization: First Measurement of the Escape Fraction of Ionizing ...

Thu Jun 24 17:00:28 GMT 2021

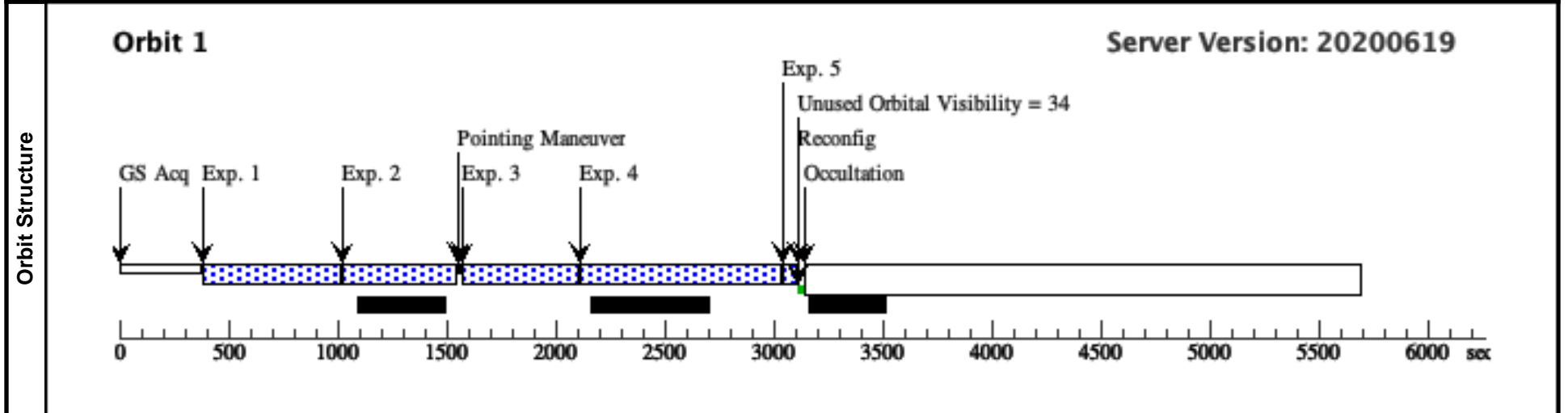
Visit	Proposal 16292, UGC8091-F225W (06), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 100D TO 115 D									
	(Exposure 1 (UGC8091-F225W (06))) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 2 (UGC8091-F225W (06))) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 3 (UGC8091-F225W (06))) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 4 (UGC8091-F225W (06))) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (Exposure 5 (UGC8091-F225W (06))) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	UGC-8091	RA: 12 58 42.3170 (194.6763208d) Dec: +14 12 51.20 (14.21422d) Equinox: J2000	Proper Motion RA: -1.1416313097548816E-4 sec of time/yr Proper Motion Dec: -6.799999027862214E-4 arcsec/yr Epoch of Position: 2015.5	V=14.98	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[STARBURST]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) UGC-8091	(2) UGC-8091	WFC3/UVIS, ACCUM, UVIS-CENTER	F225W	FLASH=19	POS TARG -1.3962 15680130411,7.2596 72902060886		501 Secs (445 Secs) [=>445.0 Secs]	[1]
	2	(2) UGC-8091	(2) UGC-8091	WFC3/UVIS, ACCUM, UVIS-CENTER	F225W	FLASH=19	POS TARG -1.2382 156801304112,7.329 672902060886		681 Secs (625 Secs) [=>625.0 Secs]	[1]
	3	(2) UGC-8091	(2) UGC-8091	WFC3/UVIS, ACCUM, UVIS-CENTER	F225W	FLASH=19	POS TARG -1.2972 15680130411,7.4246 72902060886		681 Secs (625 Secs) [=>625.0 Secs]	[1]
	4	(2) UGC-8091	(2) UGC-8091	WFC3/UVIS, ACCUM, UVIS-CENTER	F225W	FLASH=19	POS TARG -1.4562 156801304111,7.354 672902060885		501 Secs (445 Secs) [=>445.0 Secs]	[1]
	5	(2) UGC-8091	(2) UGC-8091	WFC3/UVIS, ACCUM, UVIS-CENTER	F225W	FLASH=20	POS TARG -1.4562 156801304111,7.354 672902060885		120 Secs (64 Secs) [=>64.0 Secs]	[1]



Visit	Proposal 16292, UGC8091-F110W-F160W (07), failed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: ORIENT 115D TO 135 D				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	UGC-8091	RA: 12 58 42.3170 (194.6763208d) Dec: +14 12 51.20 (14.21422d) Equinox: J2000	Proper Motion RA: -1.1416313097548816E-4 sec of time/yr Proper Motion Dec: -6.799999027862214E-4 arcsec/yr Epoch of Position: 2015.5	V=14.98	Reference Frame: SIMBAD
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
	Category=GALAXY Description=[STARBURST]					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	UGC8091-F 160W-1	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP100	POS TARG -16.212 47115888405,-20.34 4558580339488		599.232292 Secs (599.232 Secs) [==>]	[1]
	2	UGC8091-F 110W-2	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=STEP50	SAME POS AS 1		499.234285 Secs (499.234 Secs) [==>]	[1]
	3	UGC8091-F 110W-1	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=11; SAMP-SEQ=STEP100	SAME POS AS 4		499.231969 Secs (499.232 Secs) [==>]	[1]
	4	UGC8091-F 160W-2	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=STEP100	POS TARG -15.670 47115888405,-20.16 255858033949		899.233261 Secs (899.233 Secs) [==>]	[1]
	5	UGC8091-F 160W-2.5	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=6; SAMP-SEQ=STEP25	SAME POS AS 4		49.230226 Secs (49.23 Secs) [==>]	[1]



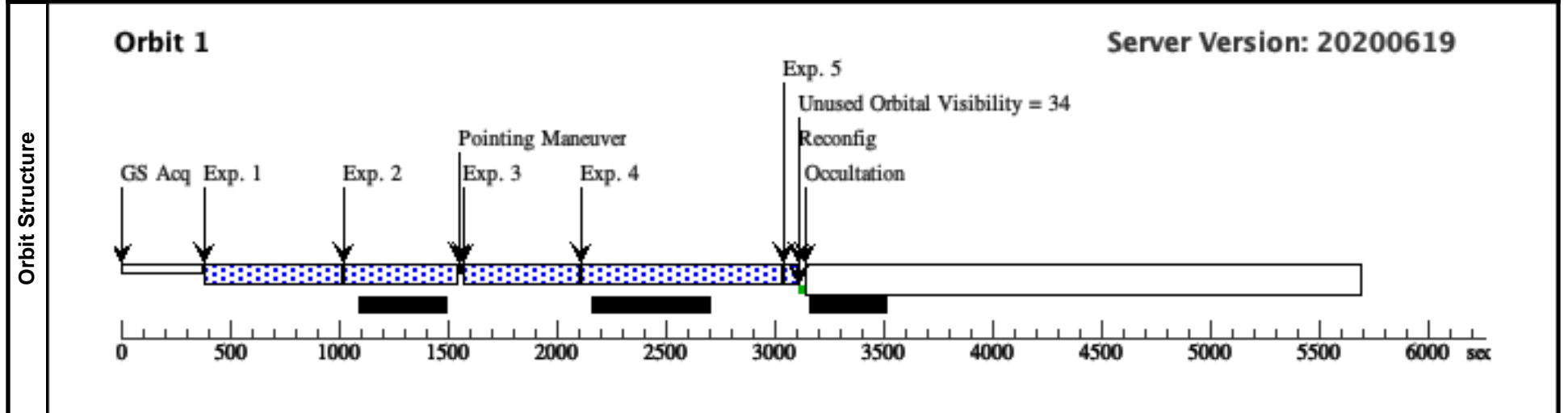
Proposal 16292 - UGC8091-F110W-F160W (57) - Probing the Sources of Reionization: First Measurement of the Escape Fraction of I...

Thu Jun 24 17:00:28 GMT 2021

Visit	Proposal 16292, UGC8091-F110W-F160W (57), scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: WFC3/IR				
	Special Requirements: ORIENT 103D TO 110 D				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	UGC-8091	RA: 12 58 42.3170 (194.6763208d) Dec: +14 12 51.20 (14.21422d) Equinox: J2000	Proper Motion RA: -1.1416313097548816E-4 sec of time/yr Proper Motion Dec: -6.799999027862214E-4 arcsec/yr Epoch of Position: 2015.5	V=14.98	Reference Frame: SIMBAD
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
	Category=GALAXY Description=[STARBURST]					

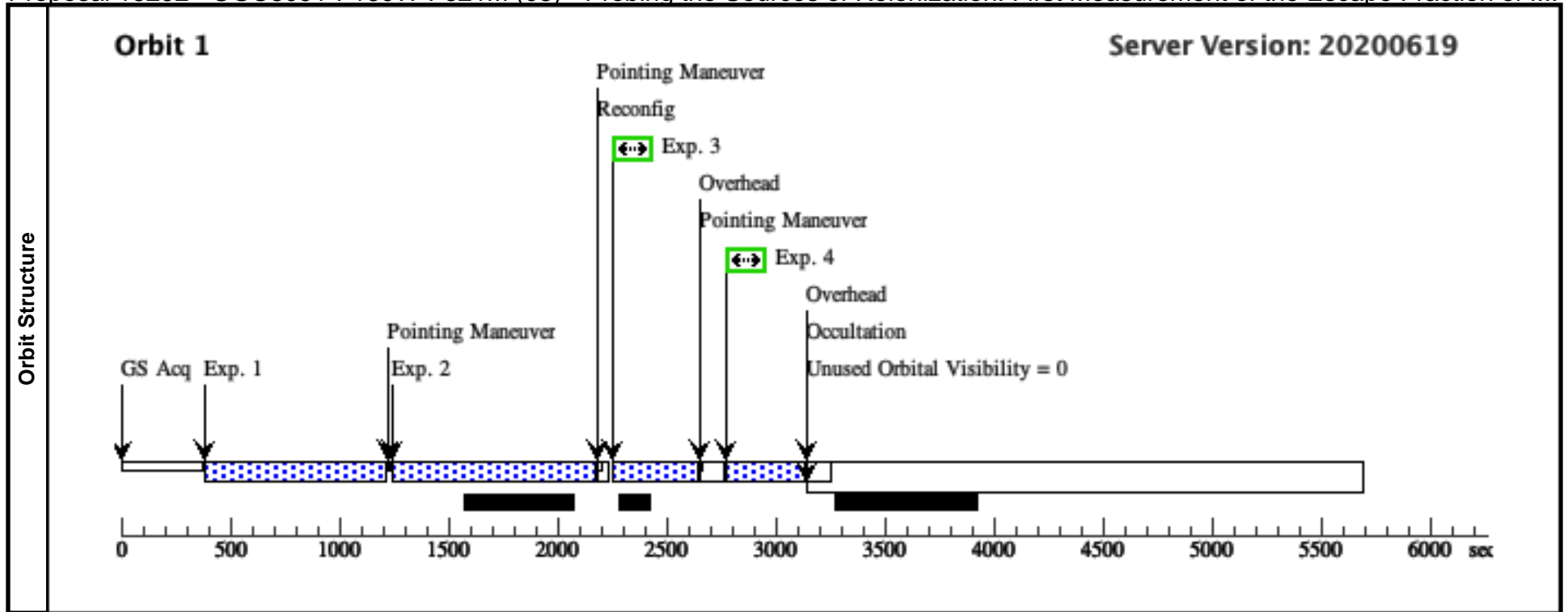
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	UGC8091-F 160W-1	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=12; SAMP-SEQ=STEP100	POS TARG -18.044 708263375867,-13.9 80440810218909		599.232292 Secs (599.232 Secs) [==>]	[1]
	2	UGC8091-F 110W-2	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=15; SAMP-SEQ=STEP50	SAME POS AS 1		499.234285 Secs (499.234 Secs) [==>]	[1]
	3	UGC8091-F 110W-1	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=11; SAMP-SEQ=STEP100	SAME POS AS 4		499.231969 Secs (499.232 Secs) [==>]	[1]
	4	UGC8091-F 160W-2	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=STEP100	POS TARG -17.502 70826337587,-13.79 844081021891		899.233261 Secs (899.233 Secs) [==>]	[1]
	5	UGC8091-F 160W-2.5	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=6; SAMP-SEQ=STEP25	SAME POS AS 4		49.230226 Secs (49.23 Secs) [==>]	[1]



Proposal 16292 - UGC8091-F160W-F621M (08) - Probing the Sources of Reionization: First Measurement of the Escape Fraction of I...

Thu Jun 24 17:00:28 GMT 2021

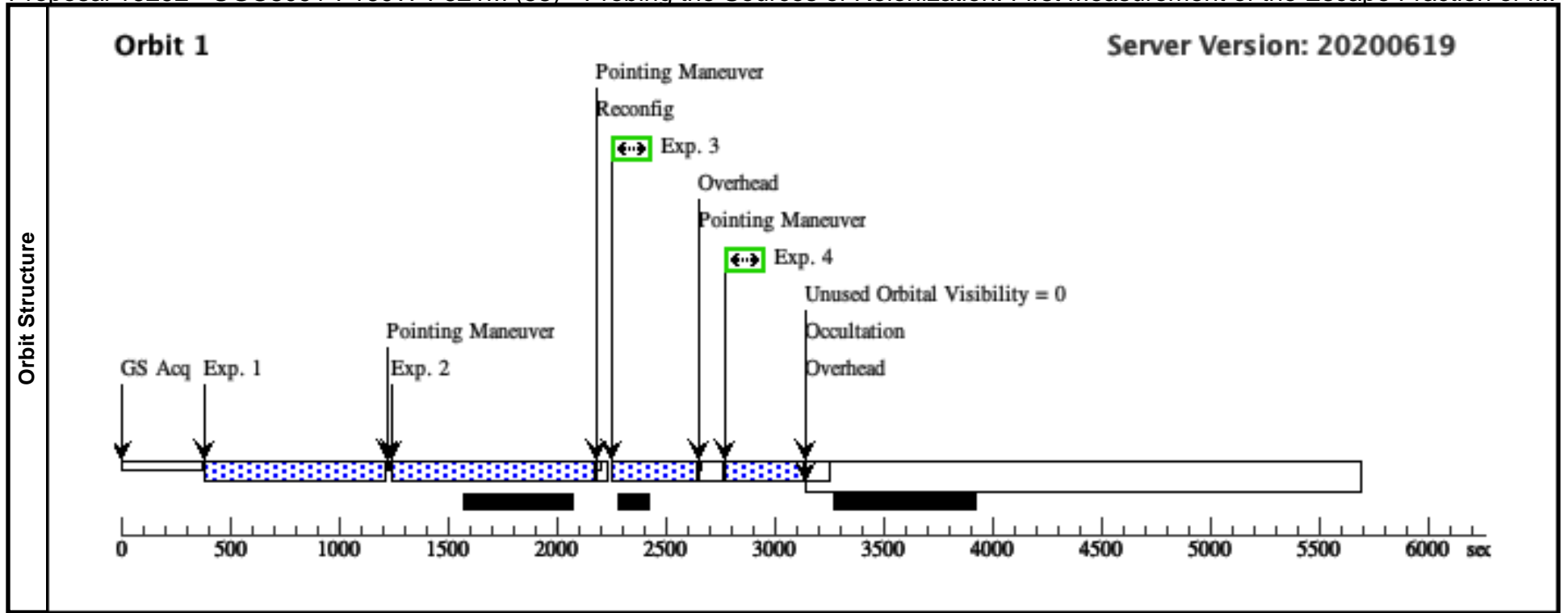
Visit	Proposal 16292, UGC8091-F160W-F621M (08), failed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SAME ORIENT AS 07									
	(UGC8091-F621M-1 (08.003)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGC8091-F621M-2 (08.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	UGC-8091	RA: 12 58 42.3170 (194.6763208d) Dec: +14 12 51.20 (14.21422d) Equinox: J2000	Proper Motion RA: -1.1416313097548816E-4 sec of time/yr Proper Motion Dec: -6.799999027862214E-4 arcsec/yr Epoch of Position: 2015.5	V=14.98	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=GALAXY Description=[STARBURST]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	UGC8091-F 160W-3	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=STEP100	POS TARG -15.873 47115888405,-19.85 955858033949		799.232938 Secs (799.233 Secs) [==>]	[1]
	2	UGC8091-F 160W-4	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=STEP100	POS TARG -16.415 47115888405,-20.04 1558580339487		899.233261 Secs (899.233 Secs) [==>]	[1]
	3	UGC8091-F 621M-1	(2) UGC-8091	WFC3/UVIS, ACCUM, UVIS-CENTER	F621M	FLASH=16	POS TARG 0,0		350 Secs (359 Secs) [==>359.0 Secs]	[1]
	4	UGC8091-F 621M-2	(2) UGC-8091	WFC3/UVIS, ACCUM, UVIS-CENTER	F621M	FLASH=16	POS TARG 0.099,0.106		350 Secs (359 Secs) [==>359.0 Secs]	[1]



Proposal 16292 - UGC8091-F160W-F621M (58) - Probing the Sources of Reionization: First Measurement of the Escape Fraction of I...

Thu Jun 24 17:00:29 GMT 2021

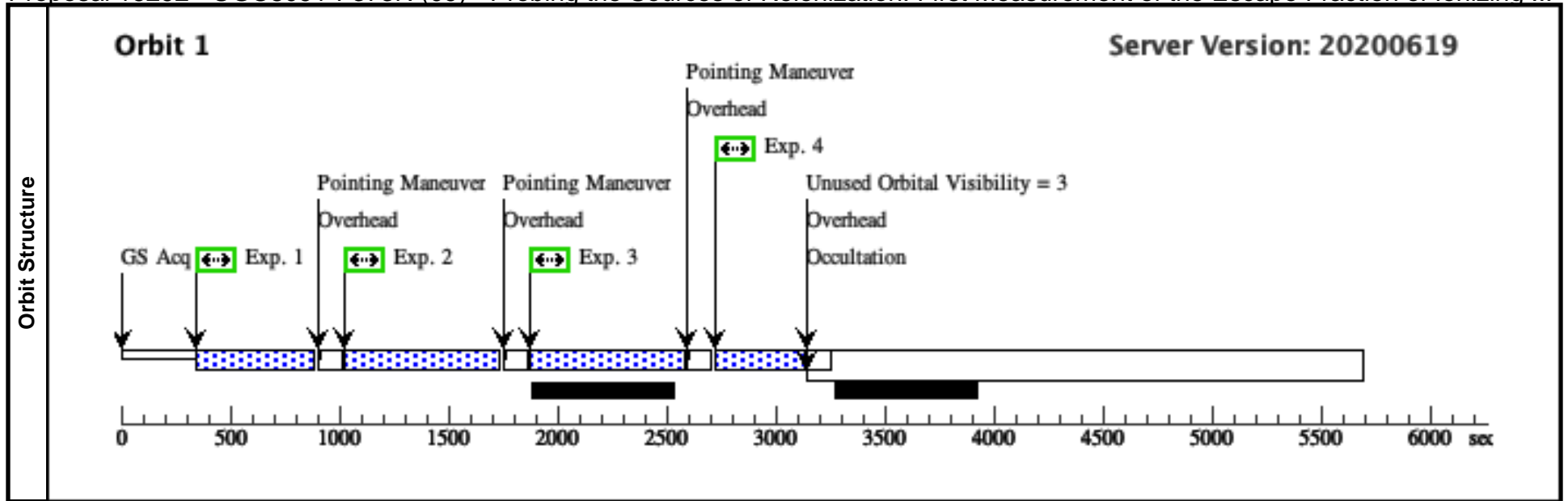
Visit	Proposal 16292, UGC8091-F160W-F621M (58), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SAME ORIENT AS 57																																																									
	(UGC8091-F621M-1 (58.003)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGC8091-F621M-2 (58.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser																																																									
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>(2)</td> <td>UGC-8091</td> <td>RA: 12 58 42.3170 (194.6763208d) Dec: +14 12 51.20 (14.21422d) Equinox: J2000</td> <td>Proper Motion RA: -1.1416313097548816E-4 sec of time/yr Proper Motion Dec: -6.799999027862214E-4 arcsec/yr Epoch of Position: 2015.5</td> <td>V=14.98</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=GALAXY Description=[STARBURST]</p>									#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	UGC-8091	RA: 12 58 42.3170 (194.6763208d) Dec: +14 12 51.20 (14.21422d) Equinox: J2000	Proper Motion RA: -1.1416313097548816E-4 sec of time/yr Proper Motion Dec: -6.799999027862214E-4 arcsec/yr Epoch of Position: 2015.5	V=14.98	Reference Frame: SIMBAD																																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																				
(2)	UGC-8091	RA: 12 58 42.3170 (194.6763208d) Dec: +14 12 51.20 (14.21422d) Equinox: J2000	Proper Motion RA: -1.1416313097548816E-4 sec of time/yr Proper Motion Dec: -6.799999027862214E-4 arcsec/yr Epoch of Position: 2015.5	V=14.98	Reference Frame: SIMBAD																																																					
<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>UGC8091-F 160W-3</td> <td>(2) UGC-8091</td> <td>WFC3/IR, MULTIACCUM, IR</td> <td>F160W</td> <td>NSAMP=14; SAMP-SEQ=STEP100</td> <td>POS TARG -17.706 01685210163,-13.49 552966138329</td> <td></td> <td>799.232938 Secs (799.233 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>UGC8091-F 160W-4</td> <td>(2) UGC-8091</td> <td>WFC3/IR, MULTIACCUM, IR</td> <td>F160W</td> <td>NSAMP=15; SAMP-SEQ=STEP100</td> <td>POS TARG -18.248 016852101628,-13.6 7752966138329</td> <td></td> <td>899.233261 Secs (899.233 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>UGC8091-F 621M-1</td> <td>(2) UGC-8091</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F621M</td> <td>FLASH=16</td> <td>POS TARG -1.8135 551495320983,6.369 466658884926</td> <td></td> <td>350 Secs (359 Secs) [==>359.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>UGC8091-F 621M-2</td> <td>(2) UGC-8091</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F621M</td> <td>FLASH=16</td> <td>POS TARG -1.7145 551495320983,6.475 466658884926</td> <td></td> <td>350 Secs (359 Secs) [==>359.0 Secs]</td> <td>[1]</td> </tr> </tbody> </table>									#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	UGC8091-F 160W-3	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=STEP100	POS TARG -17.706 01685210163,-13.49 552966138329		799.232938 Secs (799.233 Secs) [==>]	[1]	2	UGC8091-F 160W-4	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=STEP100	POS TARG -18.248 016852101628,-13.6 7752966138329		899.233261 Secs (899.233 Secs) [==>]	[1]	3	UGC8091-F 621M-1	(2) UGC-8091	WFC3/UVIS, ACCUM, UVIS-CENTER	F621M	FLASH=16	POS TARG -1.8135 551495320983,6.369 466658884926		350 Secs (359 Secs) [==>359.0 Secs]	[1]	4	UGC8091-F 621M-2	(2) UGC-8091	WFC3/UVIS, ACCUM, UVIS-CENTER	F621M	FLASH=16	POS TARG -1.7145 551495320983,6.475 466658884926		350 Secs (359 Secs) [==>359.0 Secs]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																	
1	UGC8091-F 160W-3	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=STEP100	POS TARG -17.706 01685210163,-13.49 552966138329		799.232938 Secs (799.233 Secs) [==>]	[1]																																																	
2	UGC8091-F 160W-4	(2) UGC-8091	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=STEP100	POS TARG -18.248 016852101628,-13.6 7752966138329		899.233261 Secs (899.233 Secs) [==>]	[1]																																																	
3	UGC8091-F 621M-1	(2) UGC-8091	WFC3/UVIS, ACCUM, UVIS-CENTER	F621M	FLASH=16	POS TARG -1.8135 551495320983,6.369 466658884926		350 Secs (359 Secs) [==>359.0 Secs]	[1]																																																	
4	UGC8091-F 621M-2	(2) UGC-8091	WFC3/UVIS, ACCUM, UVIS-CENTER	F621M	FLASH=16	POS TARG -1.7145 551495320983,6.475 466658884926		350 Secs (359 Secs) [==>359.0 Secs]	[1]																																																	



Proposal 16292 - UGC8091-F373N (09) - Probing the Sources of Reionization: First Measurement of the Escape Fraction of Ionizing ...

Thu Jun 24 17:00:29 GMT 2021

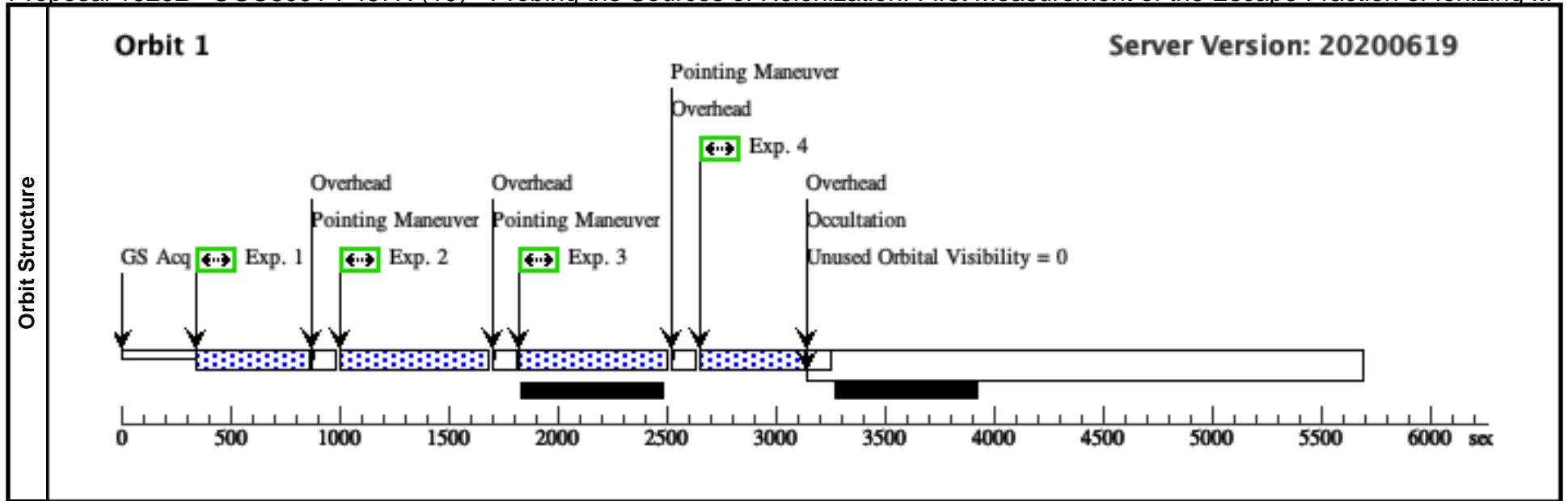
Visit	Proposal 16292, UGC8091-F373N (09), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 06																																																									
	Diagnosics (UGC8091-F373N-1 (09.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGC8091-F373N-2 (09.002)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGC8091-F373N-3 (09.003)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGC8091-F373N-4 (09.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser																																																									
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Proposal 16292 - UGC8091-F487N (10) - Probing the Sources of Reionization: First Measurement of the Escape Fraction of Ionizing ...

Thu Jun 24 17:00:29 GMT 2021

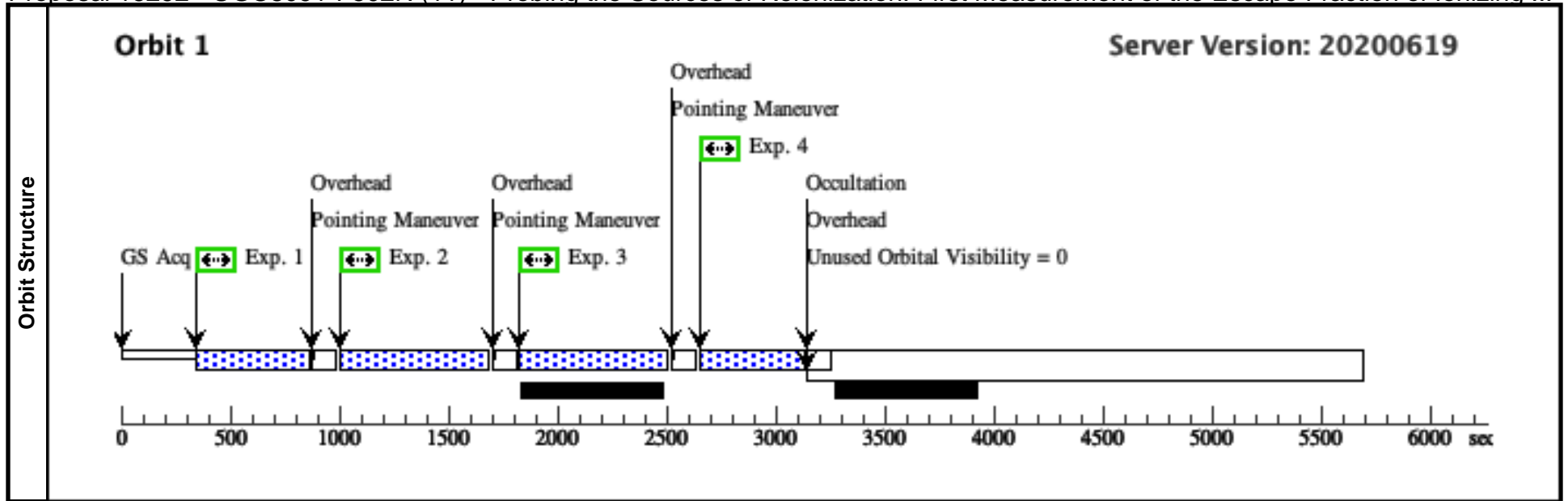
Visit	Proposal 16292, UGC8091-F487N (10), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 06																																																										
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Proposal 16292 - UGC8091-F502N (11) - Probing the Sources of Reionization: First Measurement of the Escape Fraction of Ionizing ...

Thu Jun 24 17:00:29 GMT 2021

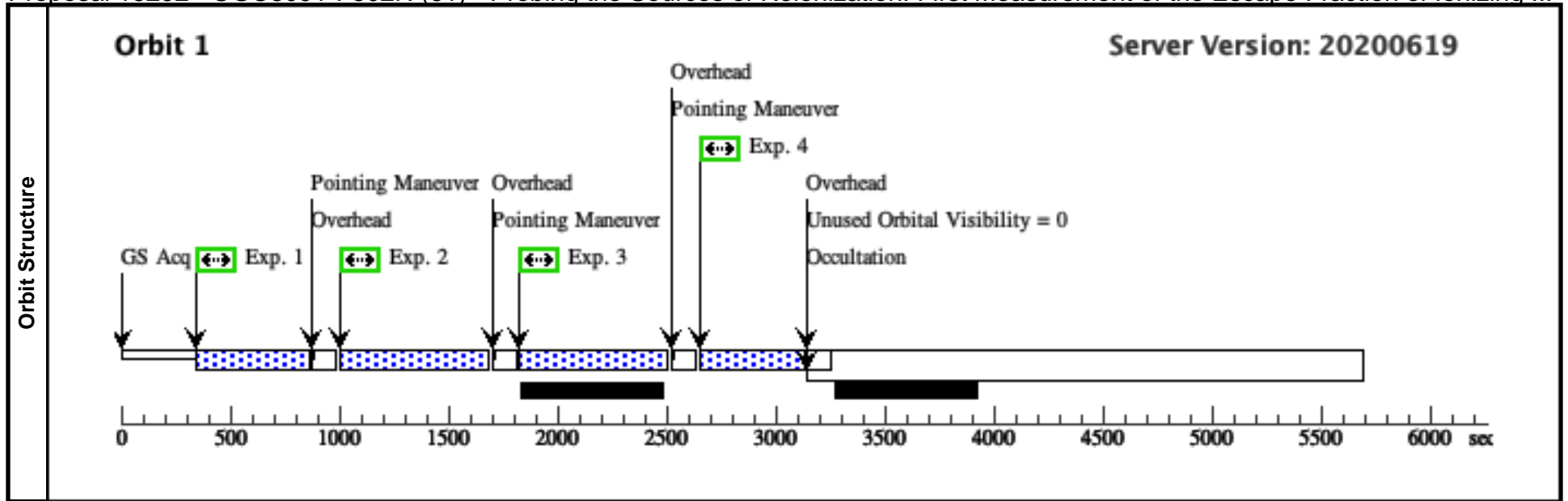
Visit	Proposal 16292, UGC8091-F502N (11), failed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 06																																																										
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Proposal 16292 - UGC8091-F502N (61) - Probing the Sources of Reionization: First Measurement of the Escape Fraction of Ionizing ...

Thu Jun 24 17:00:29 GMT 2021

Visit	Proposal 16292, UGC8091-F502N (61), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 06																																																									
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Proposal 16292 - UGC8091-F656N (12) - Probing the Sources of Reionization: First Measurement of the Escape Fraction of Ionizing ...

Thu Jun 24 17:00:29 GMT 2021

Visit	Proposal 16292, UGC8091-F656N (12), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 06																																																											
	Diagnostics	(UGC8091-F656N-1 (12.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGC8091-F656N-2 (12.002)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGC8091-F656N-3 (12.003)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser (UGC8091-F656N-4 (12.004)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser																																																										
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