



## 16022 - WFC3 UVIS Grism Wavelength Calibration

Cycle: 27, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Dr. Norbert Pirzkal (PI) (Contact)</b>	<b>Space Telescope Science Institute</b>	<b>npirzkal@stsci.edu</b>
Dr. Marc Rafelski (CoI)	Space Telescope Science Institute	mrafelski@stsci.edu

### 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>
08	(1) WR14	WFC3/UVIS	1	12-Nov-2019 18:01:05.0	yes
09	(1) WR14	WFC3/UVIS	1	12-Nov-2019 18:01:07.0	yes
10	(1) WR14	WFC3/UVIS	1	12-Nov-2019 18:01:09.0	yes

3 Total Orbits Used

### ABSTRACT

Observations of the wavelength calibrator WR-14. The source is put at the center of each CHIP for monitoring purpose and places at different positions on each CHIP in order to provide a complete spatial coverage (when combined with observations from programs 11935, 12359, 13091, 13578, 14025, 14387, 14545, 14995), missing from previous calibration observations. The exposure times are 0.5s for the imaging, 2.5s for the G280 exposures.

Monitoring positions (POSTARGS) are:

[0 30]

[0 -49]

New positions (POSTARGS) are:

[-49 -49]

[ 60 30]

[ 60 -49]

[-49 30]

[-25 30]

[30 30]

[-25 -49]

[30 -49]

### **OBSERVING DESCRIPTION**

Calibrator is moved across the field of view and observed using F200LP, F300X, and G280

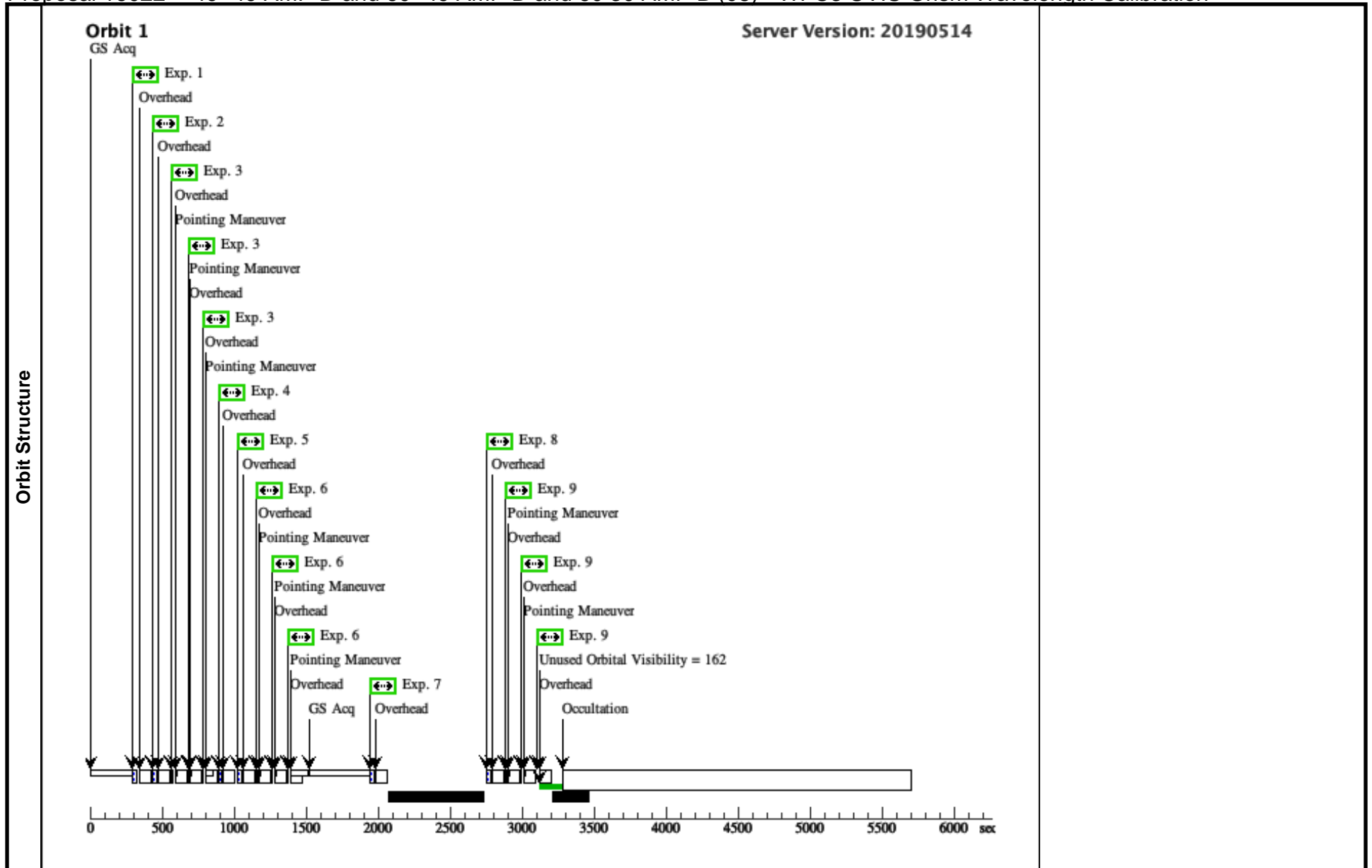
Proposal 16022 - -49 -49 AMP D and 60 -49 AMP D and 60 30 AMP B (08) - WFC3 UVIS Grism Wavelength Calibration

Tue Nov 12 23:01:10 GMT 2019

<b>Visit</b>	<b>Proposal 16022, -49 -49 AMP D and 60 -49 AMP D and 60 30 AMP B (08)</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)					
	<b>Diagnostics</b>	(Chip 1 UC F200LP (08.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser				
(Chip 1 UC F300X (08.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
(Chip 1 UC G280 (08.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
(Chip 1 UC F200LP (08.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
(Chip 1 UC F300X (08.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
(Chip 1 UC G280 (08.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
(Chip 1 UC F200LP (08.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
(Chip 1 UC F300X (08.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
(Chip 1 UC G280 (08.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser						
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3), (6), (9)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	WR14 Alt Name1: HD76536	RA: 08 54 59.1681 (133.7465337d) Dec: -47 35 32.67 (-47.59241d) Equinox: J2000		V=8.93	Reference Frame: ICRS
Comments: Category=STAR Description=[WOLF RAYET - WC]						

Proposal 16022 - -49 -49 AMP D and 60 -49 AMP D and 60 30 AMP B (08) - WFC3 UVIS Grism Wavelength Calibration

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	Chip 1 UC F (1) WR14 200LP	WFC3/UVIS, ACCUM, G280-REF	F200LP	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG -49,-49		0.5 Secs (0.5 Secs) [==>]	[1]
	2	Chip 1 UC F (1) WR14 300X	WFC3/UVIS, ACCUM, G280-REF	F300X	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG -49,-49		0.5 Secs (0.5 Secs) [==>]	[1]
	3	Chip 1 UC (1) WR14 G280	WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG -49,-49	Pattern 1, Exps 3-3 i n -49 -49 AMP D and 60 -49 AMP D and 60 30 AMP B (08) (1 )	2.5 Secs (7.5 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	4	Chip 1 UC F (1) WR14 200LP	WFC3/UVIS, ACCUM, G280-REF	F200LP	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG 60,-49		0.5 Secs (0.5 Secs) [==>]	[1]
	5	Chip 1 UC F (1) WR14 300X	WFC3/UVIS, ACCUM, G280-REF	F300X	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG 60,-49		0.5 Secs (0.5 Secs) [==>]	[1]
	6	Chip 1 UC (1) WR14 G280	WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG 60,-49	Pattern 1, Exps 6-6 i n -49 -49 AMP D and 60 -49 AMP D and 60 30 AMP B (08) (1 )	2.5 Secs (7.5 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	7	Chip 1 UC F (1) WR14 200LP	WFC3/UVIS, ACCUM, G280-REF	F200LP	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=B	POS TARG 60,30		0.5 Secs (0.5 Secs) [==>]	[1]
	8	Chip 1 UC F (1) WR14 300X	WFC3/UVIS, ACCUM, G280-REF	F300X	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=B	POS TARG 60,30		0.5 Secs (0.5 Secs) [==>]	[1]
	9	Chip 1 UC (1) WR14 G280	WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=B	POS TARG 60,30	Pattern 1, Exps 9-9 i n -49 -49 AMP D and 60 -49 AMP D and 60 30 AMP B (08) (1 )	2.5 Secs (7.5 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



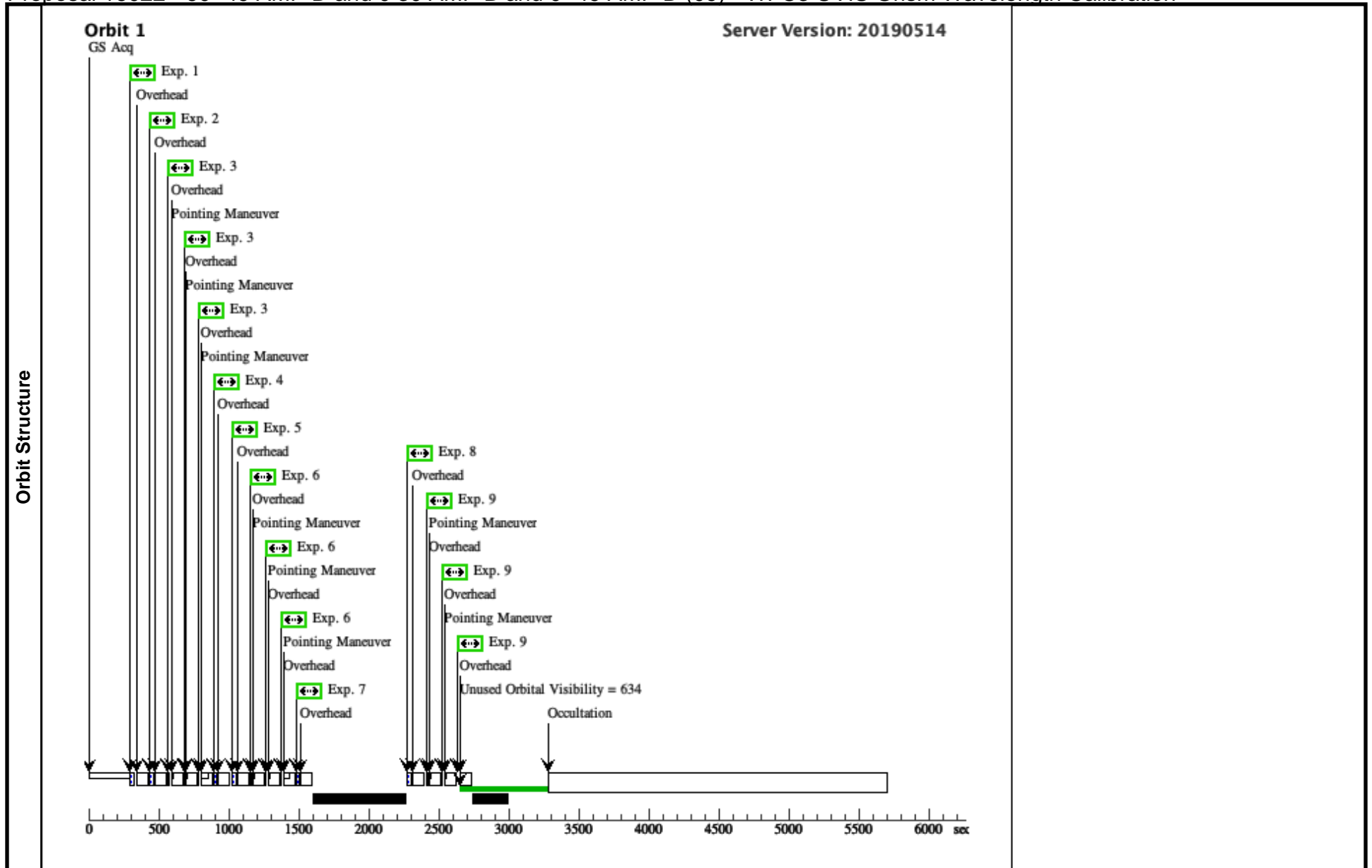
Proposal 16022 - 60 -49 AMP D and 0 30 AMP B and 0 -49 AMP D (09) - WFC3 UVIS Grism Wavelength Calibration

Tue Nov 12 23:01:10 GMT 2019

<b>Visit</b>	<b>Proposal 16022, 60 -49 AMP D and 0 30 AMP B and 0 -49 AMP D (09)</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)					
	<b>Diagnosics</b> (Chip 1 UC F200LP (09.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Chip 1 UC F300X (09.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Chip 1 UC G280 (09.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Chip 1 UC F200LP (09.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Chip 1 UC F300X (09.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Chip 1 UC G280 (09.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Chip 1 UC F200LP (09.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Chip 1 UC F300X (09.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Chip 1 UC G280 (09.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser					
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3), (6), (9)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	WR14 Alt Name1: HD76536	RA: 08 54 59.1681 (133.7465337d) Dec: -47 35 32.67 (-47.59241d) Equinox: J2000		V=8.93	Reference Frame: ICRS
Comments: Category=STAR Description=[WOLF RAYET - WC]						

Proposal 16022 - 60 -49 AMP D and 0 30 AMP B and 0 -49 AMP D (09) - WFC3 UVIS Grism Wavelength Calibration

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	Chip 1 UC F (1) WR14 200LP	WFC3/UVIS, ACCUM, G280-REF	F200LP	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG 60,-49		0.5 Secs (0.5 Secs) [==>]	[1]
	2	Chip 1 UC F (1) WR14 300X	WFC3/UVIS, ACCUM, G280-REF	F300X	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG 60,-49		0.5 Secs (0.5 Secs) [==>]	[1]
	3	Chip 1 UC (1) WR14 G280	WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG 60,-49	Pattern 1, Exps 3-3 i n 60 -49 AMP D and 0 30 AMP B and 0 -4 9 AMP D (09) (1)	2.5 Secs (7.5 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	4	Chip 1 UC F (1) WR14 200LP	WFC3/UVIS, ACCUM, G280-REF	F200LP	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=B	POS TARG 0,30		0.5 Secs (0.5 Secs) [==>]	[1]
	5	Chip 1 UC F (1) WR14 300X	WFC3/UVIS, ACCUM, G280-REF	F300X	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=B	POS TARG 0,30		0.5 Secs (0.5 Secs) [==>]	[1]
	6	Chip 1 UC (1) WR14 G280	WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=B	POS TARG 0,30	Pattern 1, Exps 6-6 i n 60 -49 AMP D and 0 30 AMP B and 0 -4 9 AMP D (09) (1)	2.5 Secs (7.5 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	7	Chip 1 UC F (1) WR14 200LP	WFC3/UVIS, ACCUM, G280-REF	F200LP	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG 0,-49		0.5 Secs (0.5 Secs) [==>]	[1]
	8	Chip 1 UC F (1) WR14 300X	WFC3/UVIS, ACCUM, G280-REF	F300X	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG 0,-49		0.5 Secs (0.5 Secs) [==>]	[1]
	9	Chip 1 UC (1) WR14 G280	WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG 0,-49	Pattern 1, Exps 9-9 i n 60 -49 AMP D and 0 30 AMP B and 0 -4 9 AMP D (09) (1)	2.5 Secs (7.5 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]





<b>Visit</b>	<b>Proposal 16022, -25 30 AMP B and 30 30 AMP B and -25 -49 AMP D and 30 -49 AMP D (10)</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)															
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<b>Diagnosics</b>																
<b>Patterns</b>	<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-DITHER-                      LINE                      Purpose=DITHER                      Number Of Points=3                      Point Spacing=0.145                      Line Spacing=                      Coordinate Frame=POS-TARG                      Pattern Orientation=46.84                      Angle Between Sides=                      Center Pattern=false                 </td> <td></td> <td>(3), (6), (9), (12)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(3), (6), (9), (12)							
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Comments: Category=STAR Description=[WOLF RAYET - WC]																

Proposal 16022 - -25 30 AMP B and 30 30 AMP B and -25 -49 AMP D and 30 -49 AMP D (10) - WFC3 UVIS Grism Wavelength Calibr...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	Chip 1 UC F (1) WR14 200LP	WFC3/UVIS, ACCUM, G280-REF	F200LP	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=B	POS TARG -25,30		0.5 Secs (0.5 Secs) [==>]	[1]
	2	Chip 1 UC F (1) WR14 300X	WFC3/UVIS, ACCUM, G280-REF	F300X	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=B	POS TARG -25,30		0.5 Secs (0.5 Secs) [==>]	[1]
	3	Chip 1 UC (1) WR14 G280	WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=B	POS TARG -25,30	Pattern 1, Exps 3-3 i n -25 30 AMP B and 30 30 AMP B and -2 5 -49 AMP D and 30 -49 AMP D (10) (1)	2.5 Secs (7.5 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	4	Chip 1 UC F (1) WR14 200LP	WFC3/UVIS, ACCUM, G280-REF	F200LP	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=B	POS TARG 30,30		0.5 Secs (0.5 Secs) [==>]	[1]
	5	Chip 1 UC F (1) WR14 300X	WFC3/UVIS, ACCUM, G280-REF	F300X	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=B	POS TARG 30,30		0.5 Secs (0.5 Secs) [==>]	[1]
	6	Chip 1 UC (1) WR14 G280	WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=B	POS TARG 30,30	Pattern 1, Exps 6-6 i n -25 30 AMP B and 30 30 AMP B and -2 5 -49 AMP D and 30 -49 AMP D (10) (1)	2.5 Secs (7.5 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	7	Chip 1 UC F (1) WR14 200LP	WFC3/UVIS, ACCUM, G280-REF	F200LP	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG -25,-49		0.5 Secs (0.5 Secs) [==>]	[1]
	8	Chip 1 UC F (1) WR14 300X	WFC3/UVIS, ACCUM, G280-REF	F300X	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG -25,-49		0.5 Secs (0.5 Secs) [==>]	[1]
	9	Chip 1 UC (1) WR14 G280	WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG -25,-49	Pattern 1, Exps 9-9 i n -25 30 AMP B and 30 30 AMP B and -2 5 -49 AMP D and 30 -49 AMP D (10) (1)	2.5 Secs (7.5 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]

Proposal 16022 - -25 30 AMP B and 30 30 AMP B and -25 -49 AMP D and 30 -49 AMP D (10) - WFC3 UVIS Grism Wavelength Calibr...

10	Chip 1 UC F (1) WR14 200LP	WFC3/UVIS, ACCUM, G280-REF	F200LP	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG 30,-49		0.5 Secs (0.5 Secs) [==>]	[1]
11	Chip 1 UC F (1) WR14 300X	WFC3/UVIS, ACCUM, G280-REF	F300X	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG 30,-49		0.5 Secs (0.5 Secs) [==>]	[1]
12	Chip 1 UC (1) WR14 G280	WFC3/UVIS, ACCUM, UVIS	G280	CR-SPLIT=NO; SIZEAXIS2=768; CENTERAXIS2=T ARGET; AMP=D	POS TARG 30,-49	Pattern 1, Exps 12-1 2 in -25 30 AMP B a nd 30 30 AMP B and -25 -49 AMP D and 30 -49 AMP D (10) ( 1)	2.5 Secs (7.5 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]

