



11552 - Characterization of the WFC3 IR Grisms

Cycle: 17, Proposal Category: SM4/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Howard A. Bushouse (PI)	Space Telescope Science Institute	bushouse@stsci.edu
Dr. Harald Kuntschner (CoI) (ESA Member)	Space Telescope - European Coordinating Facility	hkuntsch@eso.org
Dr. Jeremy R. Walsh (CoI) (ESA Member)	Space Telescope - European Coordinating Facility	jwalsh@eso.org
Dr. Martin Kuemmel (CoI) (ESA Member)	Space Telescope - European Coordinating Facility	mkuemmel@eso.org

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) GD-153	WFC3/IR	1	13-Jul-2009 21:17:19.0	yes
02	(1) GD-153	WFC3/IR	1	13-Jul-2009 21:17:23.0	yes
04	(1) GD-153	WFC3/IR	1	13-Jul-2009 21:17:28.0	yes
05	(1) GD-153	WFC3/IR	1	13-Jul-2009 21:17:32.0	yes
07	(2) PN-G111.8-02.8	WFC3/IR	1	13-Jul-2009 21:17:38.0	yes
08	(2) PN-G111.8-02.8	WFC3/IR	1	13-Jul-2009 21:17:51.0	yes

6 Total Orbits Used

ABSTRACT

Image displacement, spectral trace and dispersion, and throughput of the IR G102 and G141 gratings will be verified. The HST flux standard GD 153 will be observed in a 5-point pattern in the IR field of view, which will provide image displacement, spectral trace, and throughput measurements as a function of location within the FOV. Similarly, the planetary nebula PN HB12 will be observed in a 9-point pattern in the IR field of view, which will provide dispersion measurements as a function of FOV position.

OBSERVING DESCRIPTION

The HST flux standard GD 153 will be observed in the G102 and G141 gratings, at 5 different positions in the field-of-view for each grating. In addition, direct images will be obtained to measure the spatial displacement of the source between direct and dispersed modes. The planetary nebula PN HB12 will be also be observed in both the G102 and G141 gratings, at 9 different positions in the field-of-view. Dispersed exposures will be preceded by a direct image, in order to measure the source offsets between direct and dispersed modes. For G102 observations, the F098M and F105W filters will be used for accompanying direct exposures. For G141 observations, the F140W and F160W filters will be used for accompanying direct exposures. The number of FPA readouts (nsamp) is minimized for each exposure in order to avoid as much visibility time lost to buffer dumps as possible. POSTARGs are used to produce the 5-point and 9-point exposure patterns within the FOV. POSTARGs are also used for the central exposure of each pattern in order to shift the location of the first-order spectrum so that it is near the center of the FOV.

ADDITIONAL COMMENTS

This proposal should execute after the WFC3 IR Fine Alignment proposal (11435).

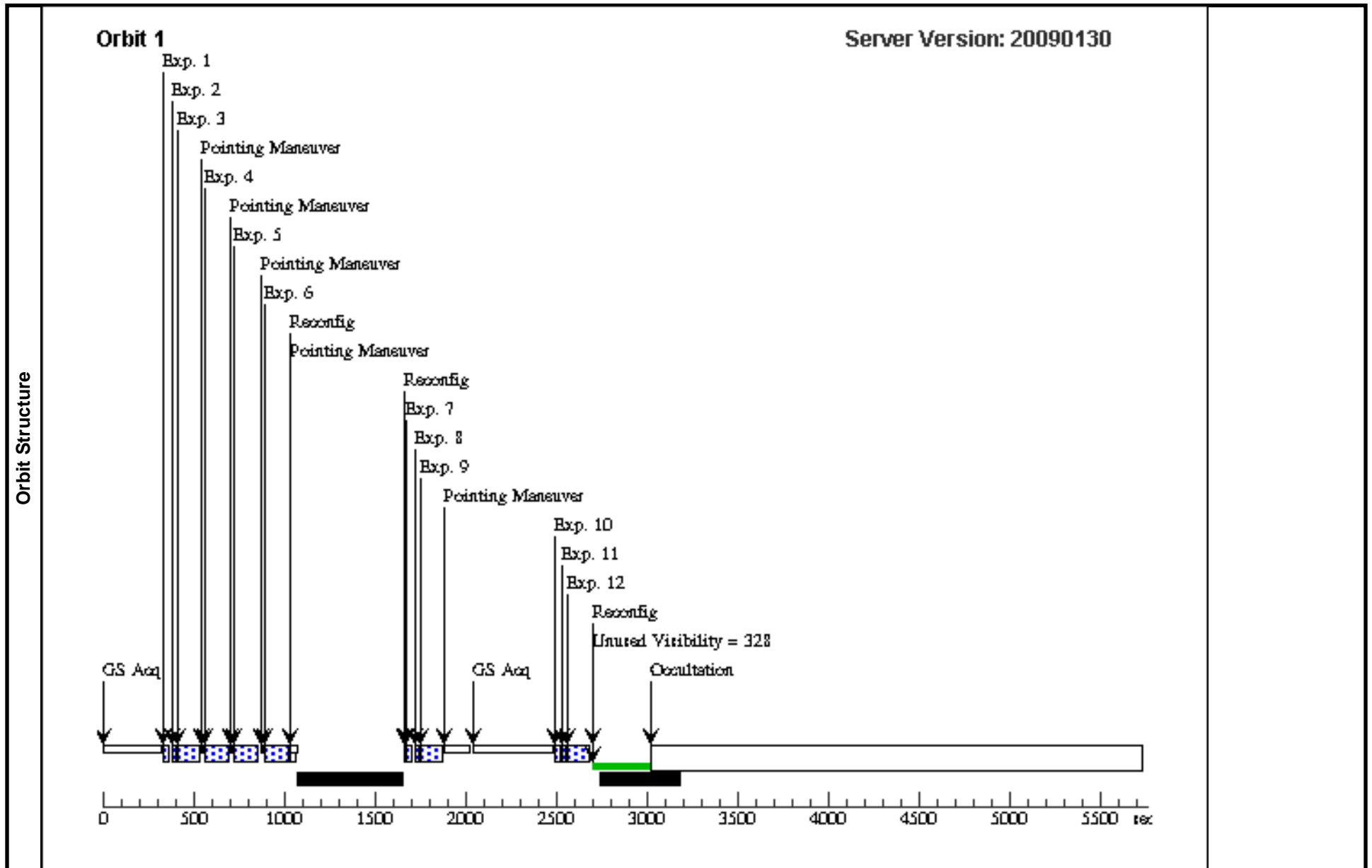
Proposal 11552 - Visit 01 - Characterization of the WFC3 IR Grisms

Tue Jul 14 01:17:55 GMT 2009

Visit	Proposal 11552, Visit 01, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: GD153 for flux calibration of G102; 5-point pattern to fill FoV. The observations at each field point consist of exposures in F098M, F105W, and G102. Four G102 exposures are obtained at the central FOV position, using postargs to manually create a small dither pattern. Single exposures in each spectral element are used at the other field points.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	GD-153	RA: 12 57 2.3200 (194.2596667d) Dec: +22 01 52.50 (22.03125d) Equinox: J2000		V=13.4	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Center F098 M	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=2; SAMP-SEQ=RAPID	POS TARG -20.0,0.0; GS ACQ SCENARIO BASE1B3		[==>]	[1]
	2	Center F105 W	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F105W	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -20.0,0.0		[==>]	[1]
	3	Center G102	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPARS25	POS TARG -20.0,0.0		[==>]	[1]
	4	Center G102	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPARS25	POS TARG -20.5,0.5		[==>]	[1]
	5	Center G102	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPARS25	POS TARG -21.0,1.0		[==>]	[1]
	6	Center G102	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPARS25	POS TARG -21.2,1.2		[==>]	[1]
	7	Lower right F098M	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=2; SAMP-SEQ=RAPID	POS TARG 23.0,-45.0		[==>]	[1]
	8	Lower right F105W	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F105W	NSAMP=1; SAMP-SEQ=RAPID	POS TARG 23.0,-45.0		[==>]	[1]
	9	Lower right G102	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPARS25	POS TARG 23.0,-45.0		[==>]	[1]

Proposal 11552 - Visit 01 - Characterization of the WFC3 IR Grisms

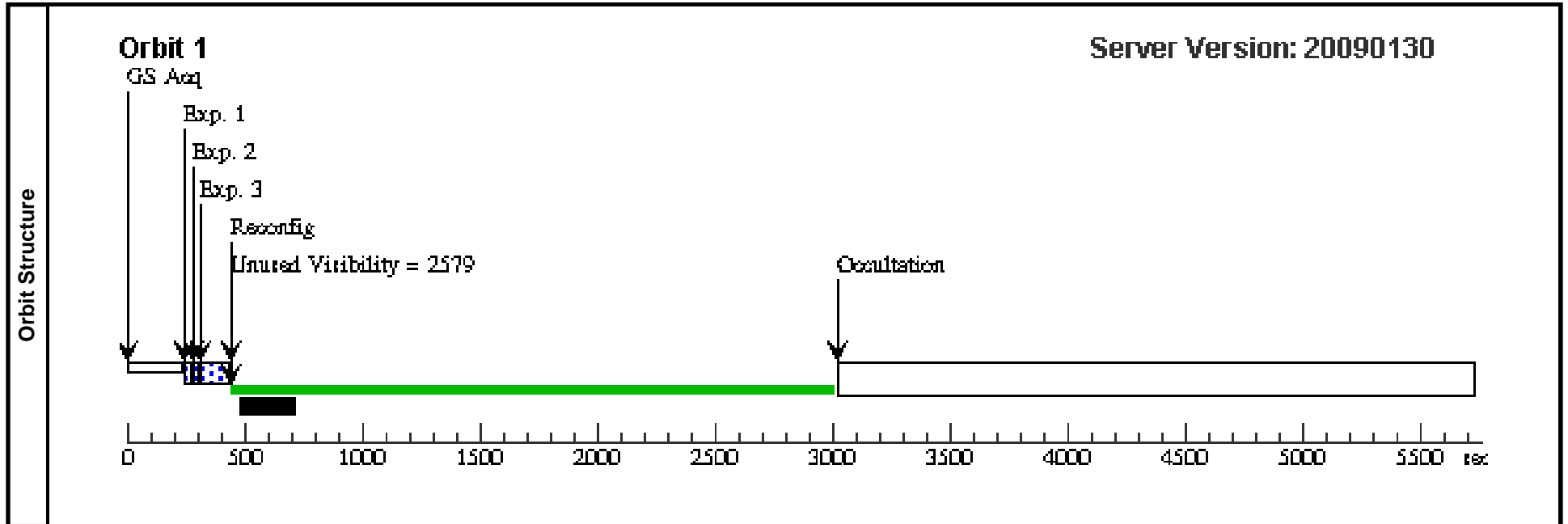
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10	Upper left F 098M	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=2; SAMP-SEQ=RAPID	POS TARG -50.0,+45.0; NEW OBSET FULL ACQ; GS ACQ SCENARIO BASE1B3		[==>]	[1]
	11	Upper left F 105W	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F105W	NSAMP=1; SAMP-SEQ=RAPID	POS TARG -50.0,45.0		[==>]	[1]
	12	Upper left G 102	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPARS25	POS TARG -50.0,45.0		[==>]	[1]



Proposal 11552 - Visit 02 - Characterization of the WFC3 IR Grisms

Tue Jul 14 01:17:56 GMT 2009

Visit	Proposal 11552, Visit 02, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: GD153 for flux calibration of G102; 5-point pattern to fill FoV. The observations at each field point consist of exposures in F098M, F105W, and G102. Four G102 exposures are obtained at the central FOV position, using postargs to manually create a small dither pattern. Single exposures in each spectral element are used at the other field points.</i>																																																	
	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>GD-153</td> <td>RA: 12 57 2.3200 (194.2596667d) Dec: +22 01 52.50 (22.03125d) Equinox: J2000</td> <td></td> <td>V=13.4</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	GD-153	RA: 12 57 2.3200 (194.2596667d) Dec: +22 01 52.50 (22.03125d) Equinox: J2000		V=13.4	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>																																			
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																													
(1)	GD-153	RA: 12 57 2.3200 (194.2596667d) Dec: +22 01 52.50 (22.03125d) Equinox: J2000		V=13.4	Reference Frame: ICRS																																													
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>																																																		
Exposures	<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/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Upper right F105W</td> <td>(1) GD-153</td> <td>WFC3/IR, MULTIACCUM, G102-REF</td> <td>F105W</td> <td>NSAMP=1; SAMP-SEQ=RAPID</td> <td>POS TARG 23.0,45.0; NEW OBSET FULL ACQ; GS ACQ SCENARIO SINGLE</td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>Upper right F098M</td> <td>(1) GD-153</td> <td>WFC3/IR, MULTIACCUM, G102-REF</td> <td>F098M</td> <td>NSAMP=2; SAMP-SEQ=RAPID</td> <td>POS TARG 23.0,45.0</td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>Upper right G102</td> <td>(1) GD-153</td> <td>WFC3/IR, MULTIACCUM, IR</td> <td>G102</td> <td>NSAMP=5; SAMP-SEQ=SPARS25</td> <td>POS TARG 23.0,45.0</td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> </tbody> </table>										#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	Upper right F105W	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F105W	NSAMP=1; SAMP-SEQ=RAPID	POS TARG 23.0,45.0; NEW OBSET FULL ACQ; GS ACQ SCENARIO SINGLE		[==>]	[1]	2	Upper right F098M	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=2; SAMP-SEQ=RAPID	POS TARG 23.0,45.0		[==>]	[1]	3	Upper right G102	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPARS25	POS TARG 23.0,45.0		[==>]	[1]
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																								
	1	Upper right F105W	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F105W	NSAMP=1; SAMP-SEQ=RAPID	POS TARG 23.0,45.0; NEW OBSET FULL ACQ; GS ACQ SCENARIO SINGLE		[==>]	[1]																																								
	2	Upper right F098M	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=2; SAMP-SEQ=RAPID	POS TARG 23.0,45.0		[==>]	[1]																																								
3	Upper right G102	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPARS25	POS TARG 23.0,45.0		[==>]	[1]																																									



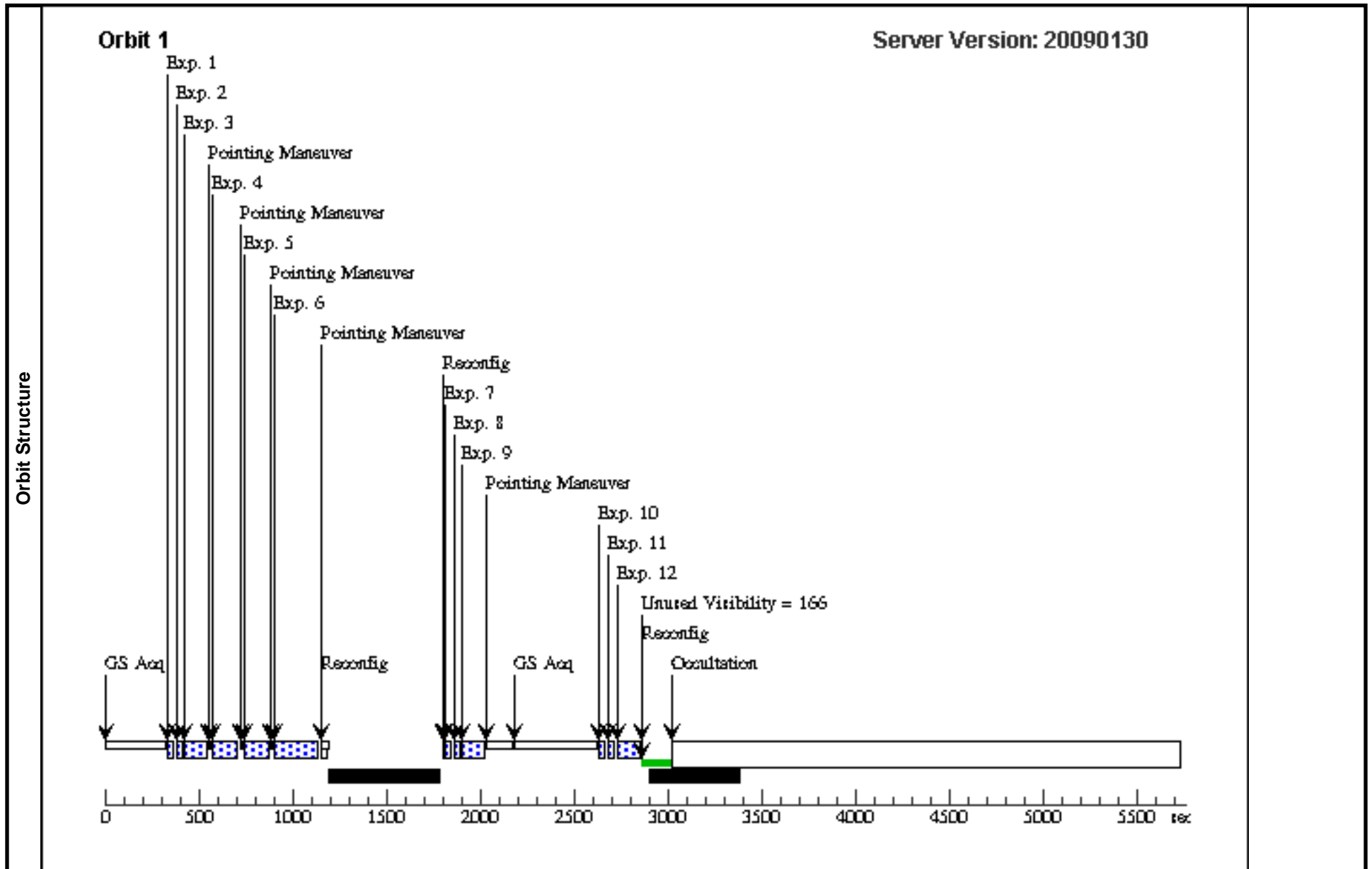
Proposal 11552 - Visit 04 - Characterization of the WFC3 IR Grisms

Tue Jul 14 01:17:56 GMT 2009

Visit	Proposal 11552, Visit 04, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: GD153 for flux calibration of G141; 5-point pattern to fill FoV. The observations at each field point consist of exposures in F140W, F160W, and G141. Four G141 exposures are obtained at the central FOV position, using postargs to manually create a small dither pattern. Single exposures in each spectral element are used at the other field points.</i>																		
	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>GD-153</td> <td>RA: 12 57 2.3200 (194.2596667d) Dec: +22 01 52.50 (22.03125d) Equinox: J2000</td> <td></td> <td>V=13.4</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	GD-153	RA: 12 57 2.3200 (194.2596667d) Dec: +22 01 52.50 (22.03125d) Equinox: J2000		V=13.4	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous														
(1)	GD-153	RA: 12 57 2.3200 (194.2596667d) Dec: +22 01 52.50 (22.03125d) Equinox: J2000		V=13.4	Reference Frame: ICRS														
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>																			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit									
	1	Center F140 W	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F140W	NSAMP=2; SAMP-SEQ=RAPID	POS TARG -20.0,0.0; GS ACQ SCENARIO BASE1B3		[==>]	[1]									
	2	Center F160 W	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F160W	NSAMP=2; SAMP-SEQ=RAPID	POS TARG -20.0,0.0		[==>]	[1]									
	3	Center G141	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPARS25	POS TARG -20.0,0.0		[==>]	[1]									
	4	Center G141	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPARS25	POS TARG -20.5,0.5		[==>]	[1]									
	5	Center G141	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPARS25	POS TARG -21.0,1.0		[==>]	[1]									
	6	Center G141	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPARS50	POS TARG -21.2,1.2		[==>]	[1]									
	7	Lower right F140W	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F140W	NSAMP=2; SAMP-SEQ=RAPID	POS TARG 23.0,-45.0		[==>]	[1]									
	8	Lower right F160W	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F160W	NSAMP=2; SAMP-SEQ=RAPID	POS TARG 23.0,-45.0		[==>]	[1]									
	9	Lower right G141	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPARS25	POS TARG 23.0,-45.0		[==>]	[1]									

Proposal 11552 - Visit 04 - Characterization of the WFC3 IR Grisms

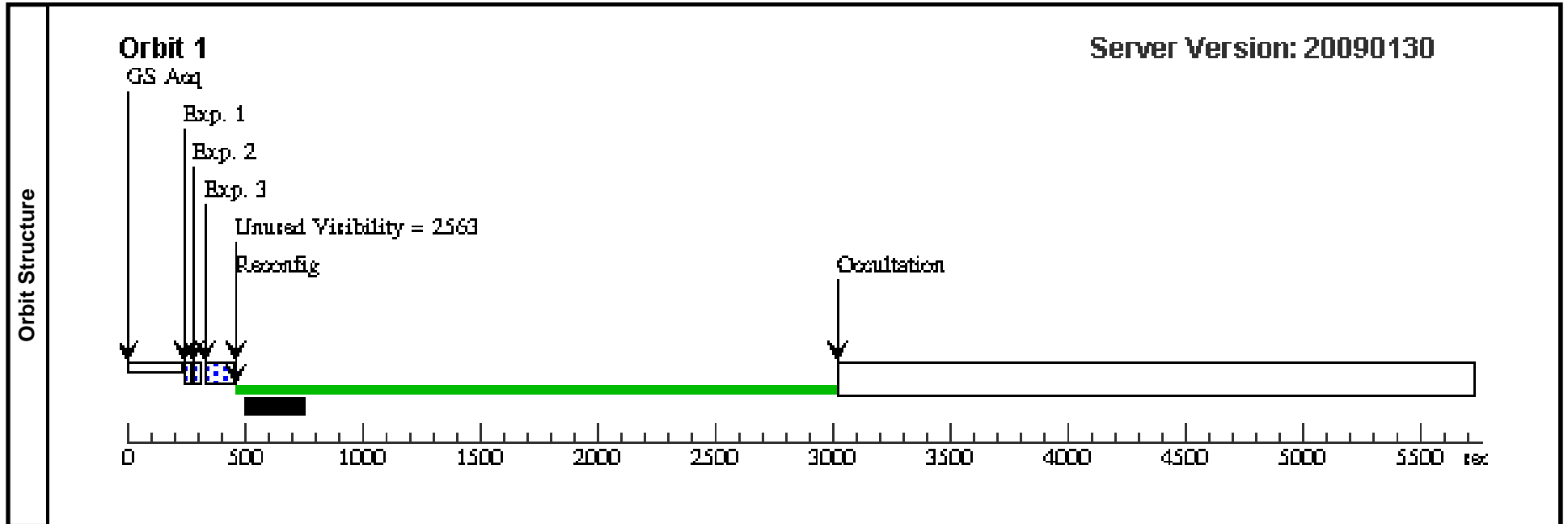
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10	Upper left F 140W	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F140W	NSAMP=2; SAMP-SEQ=RAPI D	POS TARG -50.0,45 .0; NEW OBSET FULL ACQ; GS ACQ SCENARI O BASE1B3		[==>]	[1]
	11	Upper left F 160W	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F160W	NSAMP=2; SAMP-SEQ=RAPI D	POS TARG -50.0,45 .0		[==>]	[1]
	12	Upper left G 141	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPAR S25	POS TARG -50.0,45 .0		[==>]	[1]



Proposal 11552 - Visit 05 - Characterization of the WFC3 IR Grisms

Tue Jul 14 01:17:57 GMT 2009

Visit	Proposal 11552, Visit 05, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: GD153 for flux calibration of G141; 5-point pattern to fill FoV. The observations at each field point consist of exposures in F140W, F160W, and G141. Four G141 exposures are obtained at the central FOV position, using postargs to manually create a small dither pattern. Single exposures in each spectral element are used at the other field points.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	GD-153	RA: 12 57 2.3200 (194.2596667d) Dec: +22 01 52.50 (22.03125d) Equinox: J2000		V=13.4	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Upper right F140W	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F140W	NSAMP=2; SAMP-SEQ=RAPID	POS TARG 23.0,45.0; GS ACQ SCENARIO SINGLE		[==>]	[1]
	2	Upper right F160W	(1) GD-153	WFC3/IR, MULTIACCUM, G102-REF	F160W	NSAMP=2; SAMP-SEQ=RAPID	POS TARG 23.0,45.0		[==>]	[1]
	3	Upper right G141	(1) GD-153	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPARS25	POS TARG 23.0,45.0		[==>]	[1]



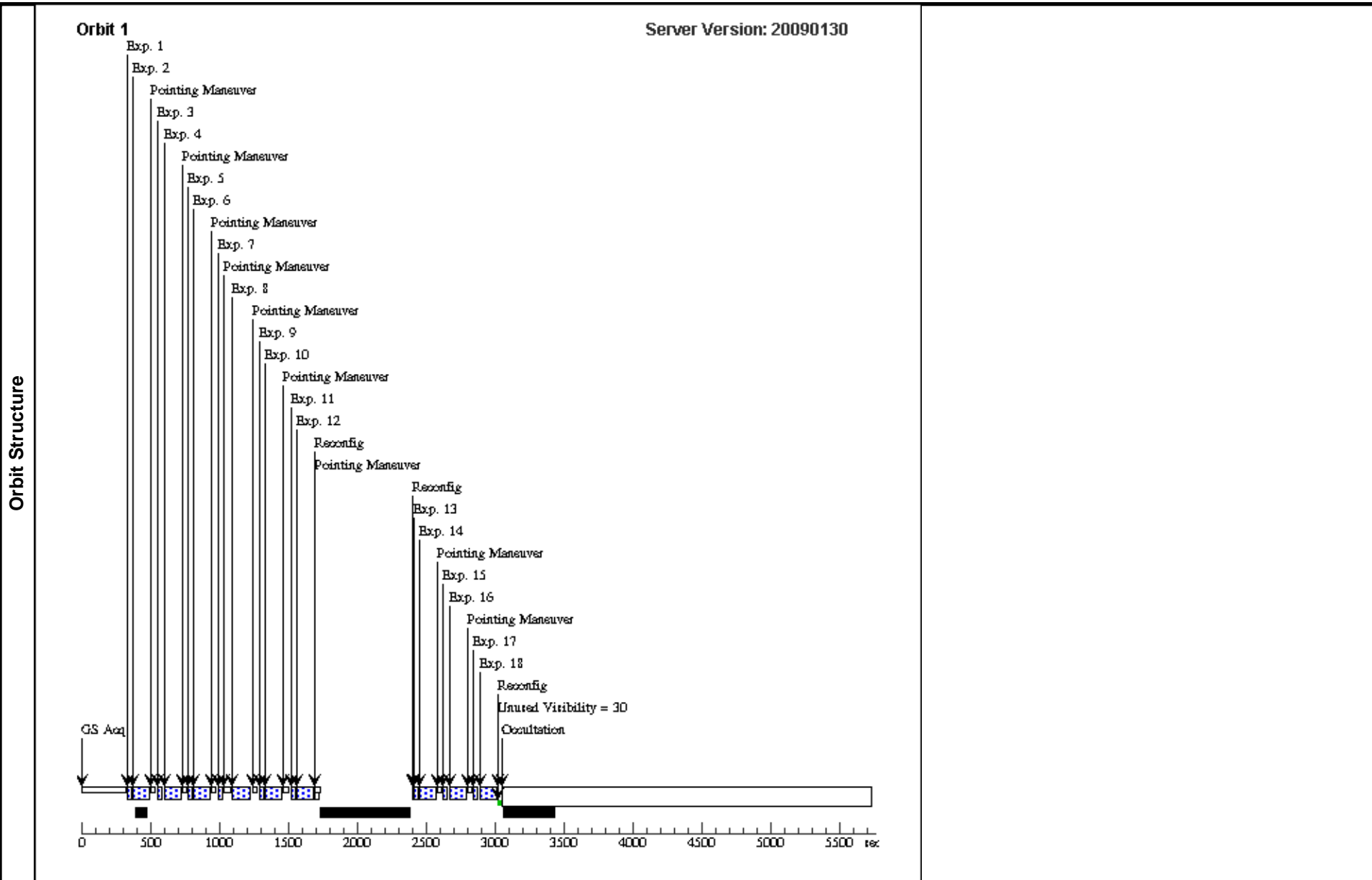
Proposal 11552 - Visit 07 - Characterization of the WFC3 IR Grisms

Tue Jul 14 01:17:57 GMT 2009

Visit	Proposal 11552, Visit 07, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: PN HB 12 for wavelength calibration of G102; 9-point pattern to fill the FoV. Exposures in the F098M and G102 are obtained at each field point.</i>																					
	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>PN-G111.8-02.8 Alt Name1: HB12</td> <td>RA: 23 26 14.8100 (351.5617083d) Dec: +58 10 54.60 (58.18183d) Equinox: J2000</td> <td></td> <td>V=13.8</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	PN-G111.8-02.8 Alt Name1: HB12	RA: 23 26 14.8100 (351.5617083d) Dec: +58 10 54.60 (58.18183d) Equinox: J2000		V=13.8
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																	
(2)	PN-G111.8-02.8 Alt Name1: HB12	RA: 23 26 14.8100 (351.5617083d) Dec: +58 10 54.60 (58.18183d) Equinox: J2000		V=13.8	Reference Frame: ICRS																	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit												
	1	Center F098 M	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG -20.0,0. 0		[==>]	[1]												
	2	Center G102	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG -20.0,0. 0		[==>]	[1]												
	3	Upper left F098M	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG -50.0,45. .0		[==>]	[1]												
	4	Upper left G102	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG -50.0,45. .0		[==>]	[1]												
	5	Upper middle F098M	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG -20.0,45. .0		[==>]	[1]												
	6	Upper middle G102	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG -20.0,45. .0		[==>]	[1]												
	7	Upper right F098M	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG 23.0,45. 0		[==>]	[1]												
	8	Upper right G102	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG -23.0,-45.0 5.0		[==>]	[1]												
	9	Middle left F098M	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG -50.0,0. 0		[==>]	[1]												
10	Middle left G102	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG -50.0,0. 0		[==>]	[1]													

Proposal 11552 - Visit 07 - Characterization of the WFC3 IR Grisms

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	11	Middle right F098M	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG 23.0,0.0		[==>]	[1]
	12	Middle right G102	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG 23.0,0.0		[==>]	[1]
	13	Lower left F098M	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG -50.0,-4 5.0		[==>]	[1]
	14	Lower left G102	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG -50.0,-4 5.0		[==>]	[1]
	15	Lower middle F098M	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG -20.0,-4 5.0		[==>]	[1]
	16	Lower middle G102	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG -20.0,-4 5.0		[==>]	[1]
	17	Lower right F098M	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F098M	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG 23.0,-45 .0		[==>]	[1]
18	Lower right G102	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG 23.0,-45 .0		[==>]	[1]	



Proposal 11552 - Visit 08 - Characterization of the WFC3 IR Grisms

Tue Jul 14 01:17:58 GMT 2009

Visit	Proposal 11552, Visit 08, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: PN HB 12 for wavelength calibration of G141; 9-point pattern to fill the FoV. Exposures in the F140W and G141 are obtained at each field point.</i>																					
	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>PN-G111.8-02.8 Alt Name1: HB12</td> <td>RA: 23 26 14.8100 (351.5617083d) Dec: +58 10 54.60 (58.18183d) Equinox: J2000</td> <td></td> <td>V=13.8</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	PN-G111.8-02.8 Alt Name1: HB12	RA: 23 26 14.8100 (351.5617083d) Dec: +58 10 54.60 (58.18183d) Equinox: J2000		V=13.8
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																	
(2)	PN-G111.8-02.8 Alt Name1: HB12	RA: 23 26 14.8100 (351.5617083d) Dec: +58 10 54.60 (58.18183d) Equinox: J2000		V=13.8	Reference Frame: ICRS																	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit												
	1	Center F140 W	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F140W	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG -20.0,0.0		[==>]	[1]												
	2	Center G141	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG -20.0,0.0		[==>]	[1]												
	3	Upper left F140W	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F140W	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG -50.0,45.0		[==>]	[1]												
	4	Upper left G141	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG -50.0,45.0		[==>]	[1]												
	5	Upper middle F140W	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F140W	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG -20.0,45.0		[==>]	[1]												
	6	Upper middle G141	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG -20.0,45.0		[==>]	[1]												
	7	Upper right F140W	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F140W	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG 23.0,45.0		[==>]	[1]												
	8	Upper right G141	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG 23.0,45.0		[==>]	[1]												
	9	Middle left F140W	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F140W	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG -50.0,0.0		[==>]	[1]												
10	Middle left G141	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG -50.0,0.0		[==>]	[1]													

Proposal 11552 - Visit 08 - Characterization of the WFC3 IR Grisms

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	11	Middle right F140W	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F140W	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG 23.0,0.0	[==>]	[1]	
	12	Middle right G141	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG 23.0,0.0	[==>]	[1]	
	13	Lower left F140W	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F140W	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG -50.0,-45.0	[==>]	[1]	
	14	Lower left G141	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG -50.0,-45.0	[==>]	[1]	
	15	Lower middle F140W	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F140W	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG -20.0,-45.0	[==>]	[1]	
	16	Lower middle G141	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG -20.0,-45.0	[==>]	[1]	
	17	Lower right F140W	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, G102-REF	F140W	NSAMP=1; SAMP-SEQ=SPAR S50	POS TARG 23.0,-45.0	[==>]	[1]	
18	Lower right G141	(2) PN-G111.8-02.8	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=3; SAMP-SEQ=SPAR S50	POS TARG 23.0,-45.0	[==>]	[1]		

