



17013 - WFC3 IR Gain Monitor

Cycle: 30, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Mr. Harish Khandrika (PI) (Contact)	Space Telescope Science Institute	hkhandrika@stsci.edu
Dr. Joel David Green (CoI) (Contact)	Space Telescope Science Institute	jgreen@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>
01	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:13.0	yes
02	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:14.0	yes
03	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:14.0	yes
04	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:15.0	yes
05	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:15.0	yes

Proposal 17013 (STScI Edit Number: 0, Created: Friday, July 8, 2022 at 1:00:21 PM Eastern Standard Time) - Overview

<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>
06	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:16.0	yes
07	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:16.0	yes
08	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:17.0	yes
09	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:17.0	yes
10	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:18.0	yes
11	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:18.0	yes
12	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:19.0	yes
13	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:19.0	yes
14	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:20.0	yes
15	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:20.0	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>
16	DARK DARK-NM TUNGSTEN	WFC3/IR	1	08-Jul-2022 14:00:21.0	yes

16 Total Orbits Used

ABSTRACT

The gain is the conversion factor from electronic analog digital units (ADUs) to electrons and so is a fundamental parameter needed to characterize the WFC3 IR detector. In order to ensure that the true value in each quadrant does not deviate significantly from the nominal gain setting of 2.5 e-/ADU within the WFC3/IR data reduction pipeline, the gain must be monitored each cycle. We propose an observing program for the IR channel of WFC3 that will measure the gain in each of the four quadrants of the detector with a series of flat field pairs taken no more than a week apart, performed first in winter 2021-22 and again in summer 2022. For each quadrant of each ramp pair, the measured mean signal is plotted against the variance. The gain is the inverse of the slope of the best fit line. This proposal is an identical continuation of Cycle 29's program 16577. Ramp pairs are taken twice a year, providing two separate calculations of gain each cycle.

OBSERVING DESCRIPTION

The gain is the conversion factor from electronic analog digital units (ADUs) to electrons and so is a fundamental parameter needed to characterize the WFC3 IR detector. In order to ensure that the true value in each quadrant does not deviate significantly from the nominal gain setting of 2.5 e-/ADU within the WFC3/IR data reduction pipeline, the gain must be monitored each cycle. We propose an observing program for the IR channel of WFC3 that will measure the gain in each of the four quadrants of the detector with a series of flat field pairs taken no more than a week apart, performed first in winter 2022-23 and again in summer 2023. For each quadrant of each ramp pair, the measured mean signal is plotted against the variance. The gain is the inverse of the slope of the best fit line. This proposal is an identical continuation of Cycle 29's program 16577. Ramp pairs are taken twice a year, providing two separate calculations of gain each cycle.

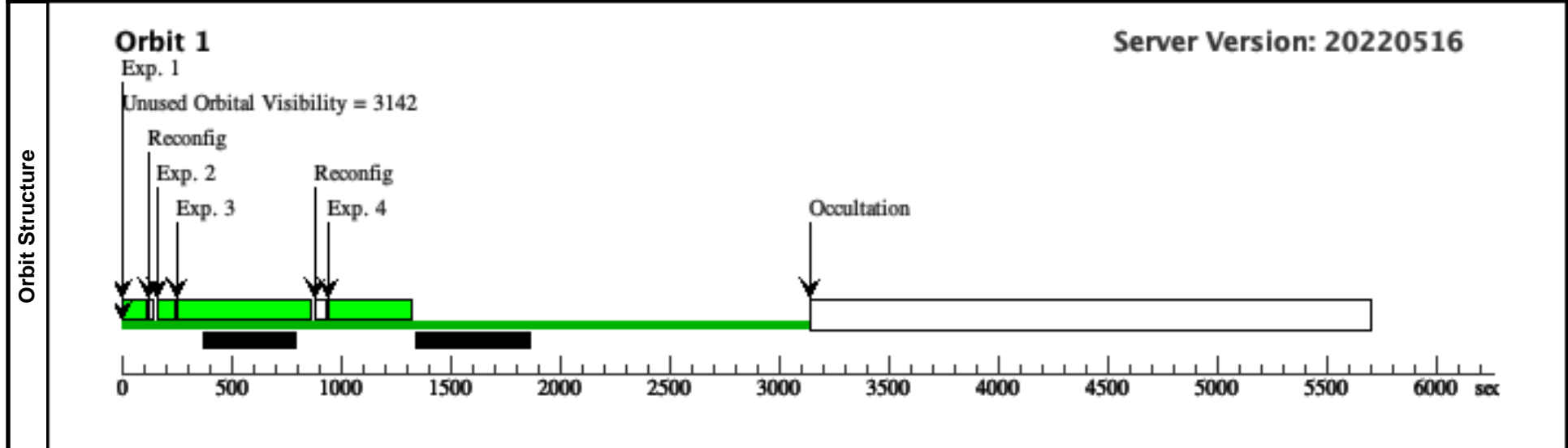
Proposal 17013 - epoch 1 (01) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:21 GMT 2022

Visit	Proposal 17013, epoch 1 (01) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 05-NOV-2022 AND 05-FEB-2023:00:00:00
	(epoch 1 (01)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Diagnostics	(epoch 1 (01)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	Warm-up Fl at	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
	4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



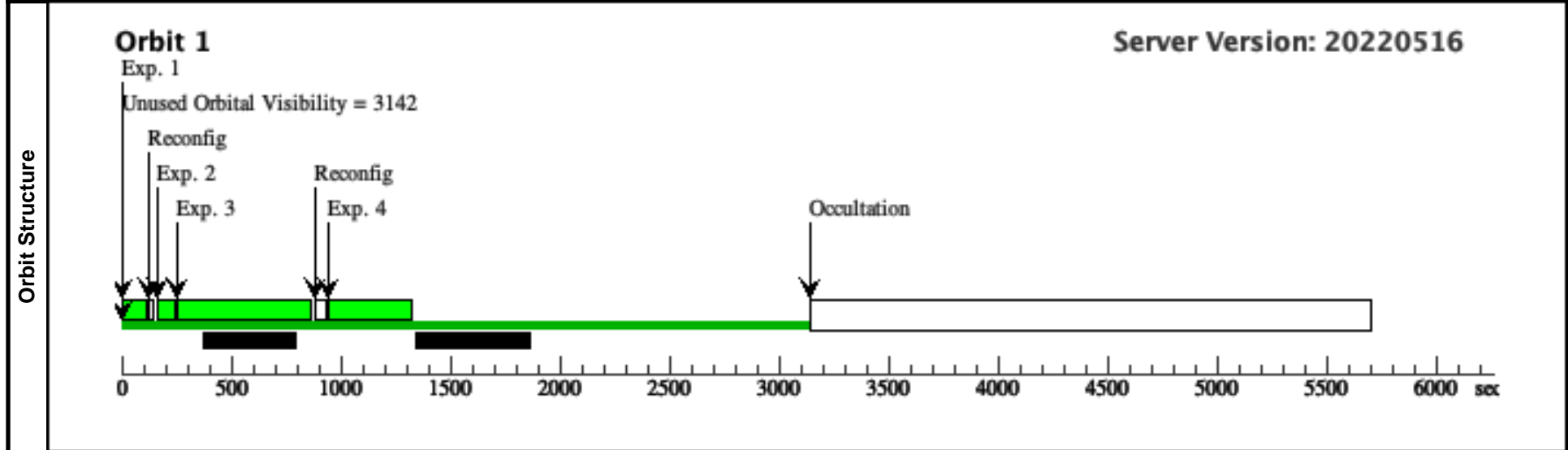
Proposal 17013 - epoch 1 (02) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:21 GMT 2022

Visit	Proposal 17013, epoch 1 (02) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: AFTER 01 BY 5 H TO 24 H; BETWEEN 05-NOV-2022 AND 05-FEB-2023:00:00:00
	(epoch 1 (02)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Diagnostics	(epoch 1 (02)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	Warm-up Flat at	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
	4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



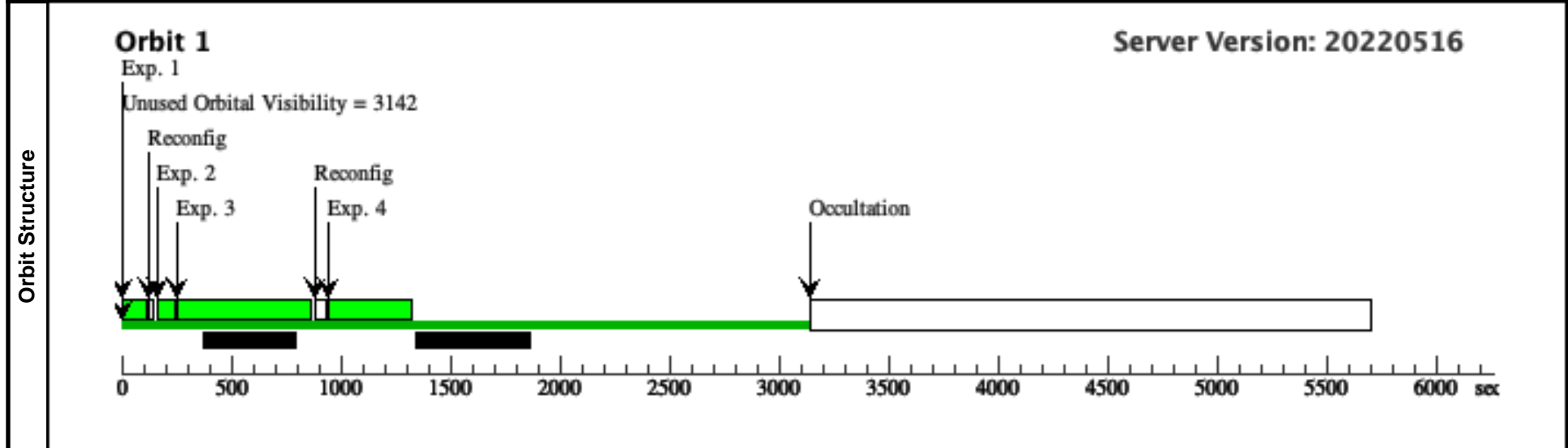
Proposal 17013 - epoch 1 (03) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:21 GMT 2022

Visit	Proposal 17013, epoch 1 (03) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 05-NOV-2022 AND 05-FEB-2023:00:00:00
	(epoch 1 (03)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Diagnostics	(epoch 1 (03)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	Warm-up Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
	4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



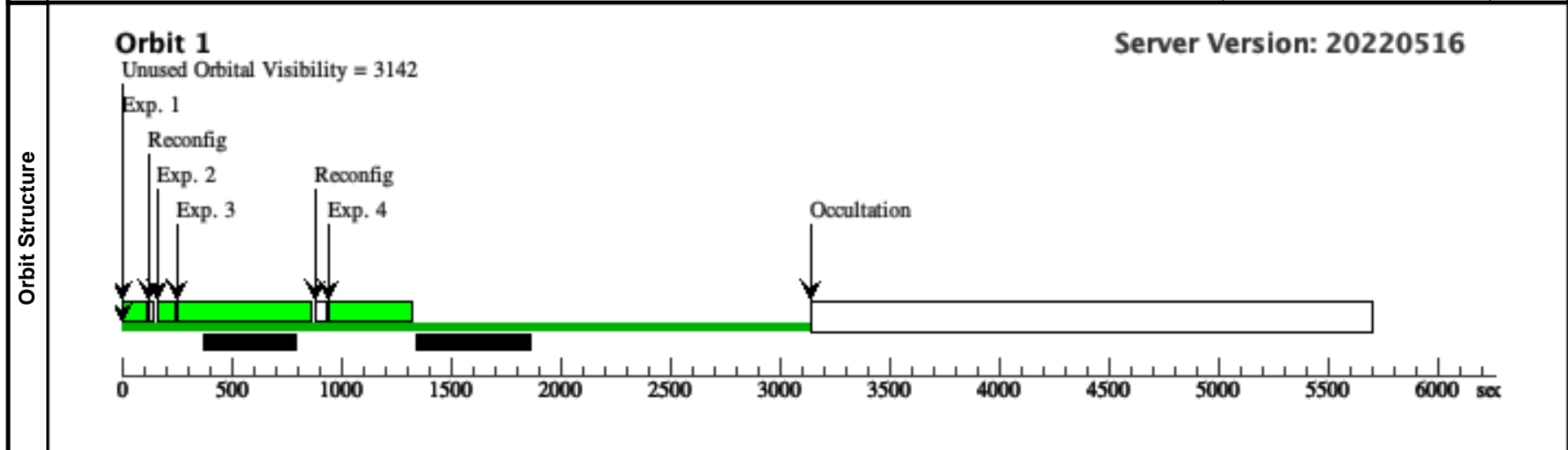
Proposal 17013 - epoch 1 (04) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:22 GMT 2022

Visit	Proposal 17013, epoch 1 (04) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: AFTER 03 BY 5 H TO 24 H; BETWEEN 05-NOV-2022 AND 05-FEB-2023:00:00:00
	(epoch 1 (04)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Diagnostics	(epoch 1 (04)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	Warm-up Fl at	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
	4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



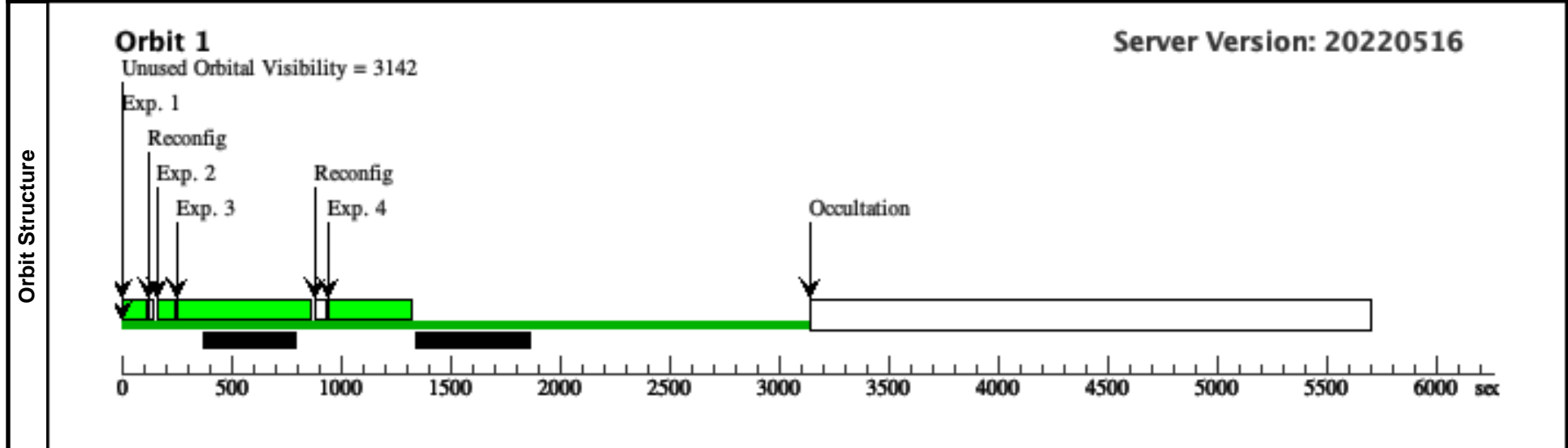
Proposal 17013 - epoch 1 (05) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:22 GMT 2022

Visit	Proposal 17013, epoch 1 (05) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 05-NOV-2022 AND 05-FEB-2023:00:00:00
	(epoch 1 (05)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Diagnostics	(epoch 1 (05)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
	(epoch 1 (05)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]
	2	Warm-up Fl at	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
	4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



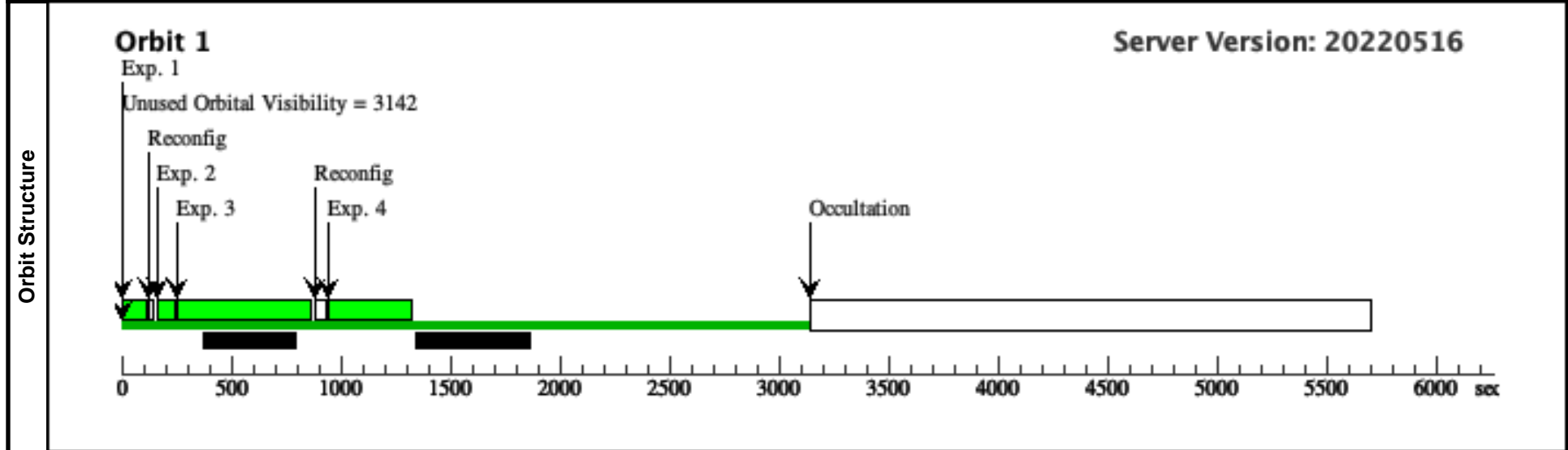
Proposal 17013 - epoch 1 (06) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:22 GMT 2022

Visit	Proposal 17013, epoch 1 (06) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: AFTER 05 BY 5 H TO 24 H; BETWEEN 05-NOV-2022 AND 05-FEB-2023:00:00:00
	(epoch 1 (06)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Diagnostics	(epoch 1 (06)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	Warm-up Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
	4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



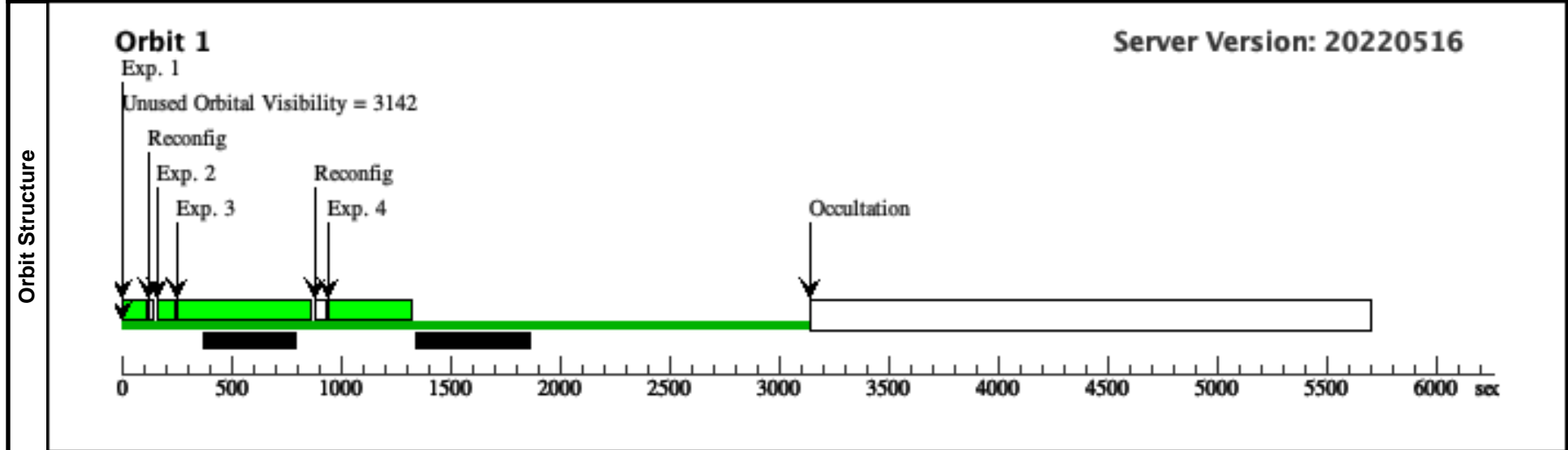
Proposal 17013 - epoch 1 (07) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:22 GMT 2022

Visit	Proposal 17013, epoch 1 (07) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 05-NOV-2022 AND 05-FEB-2023:00:00:00

Diagnostics	(epoch 1 (07)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
2	Warm-up Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



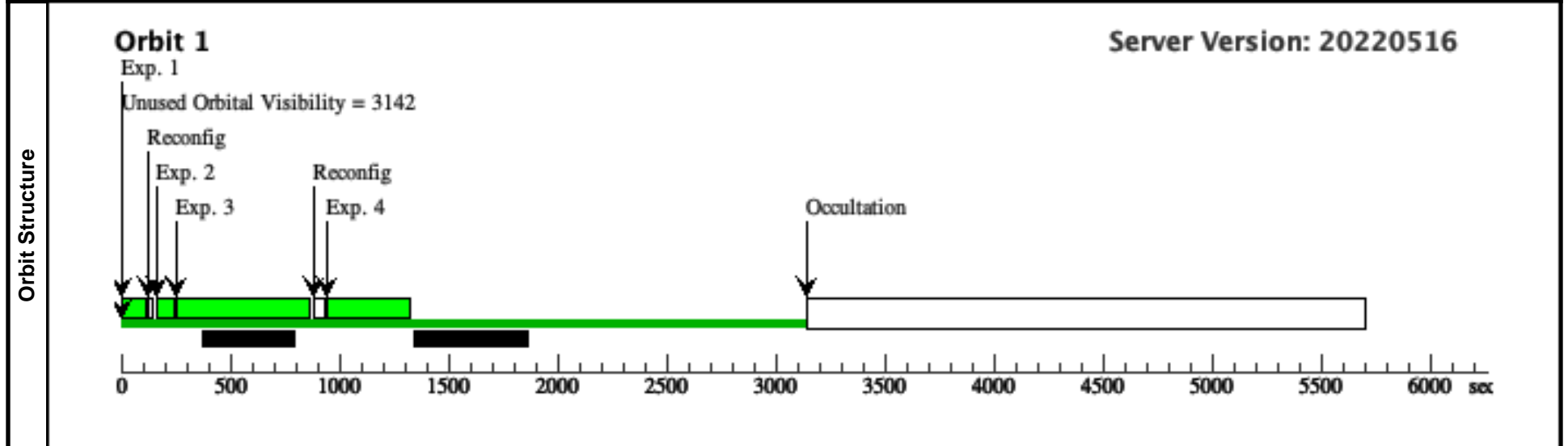
Proposal 17013 - epoch 1 (08) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:22 GMT 2022

Visit	Proposal 17013, epoch 1 (08) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: AFTER 07 BY 5 H TO 24 H; BETWEEN 05-NOV-2022 AND 05-FEB-2023:00:00:00
	(epoch 1 (08)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Diagnostics	(epoch 1 (08)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	Warm-up Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
	4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



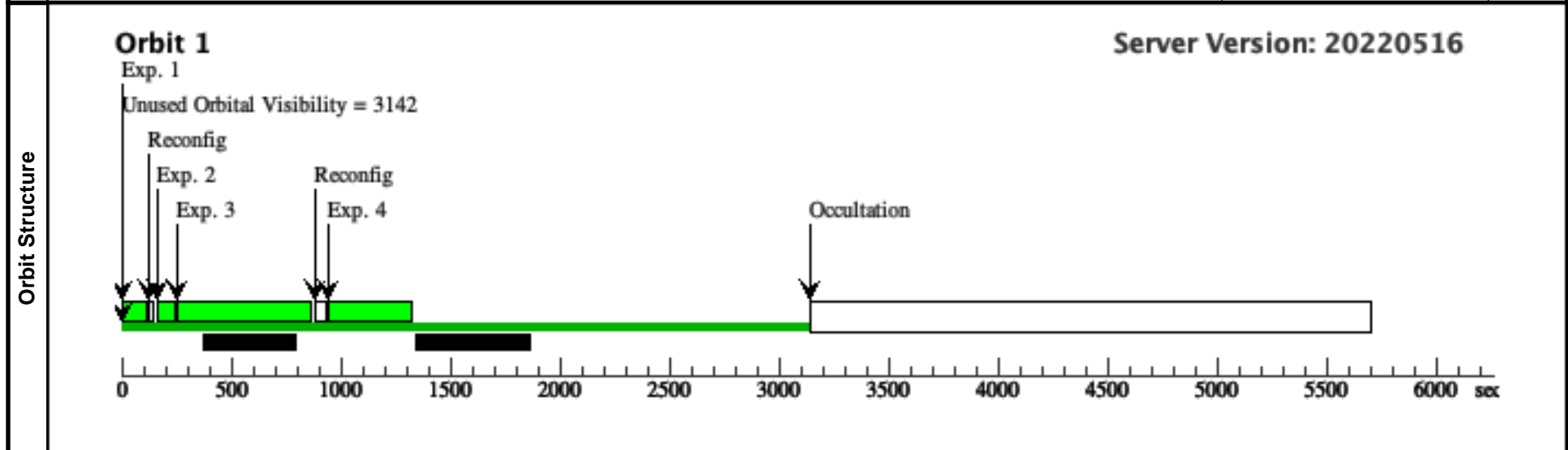
Proposal 17013 - epoch 2 (09) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:22 GMT 2022

Visit	Proposal 17013, epoch 2 (09) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 01-JUN-2023 AND 01-SEP-2023

Diagnostics	(epoch 2 (09)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	Warm-up Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
	4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



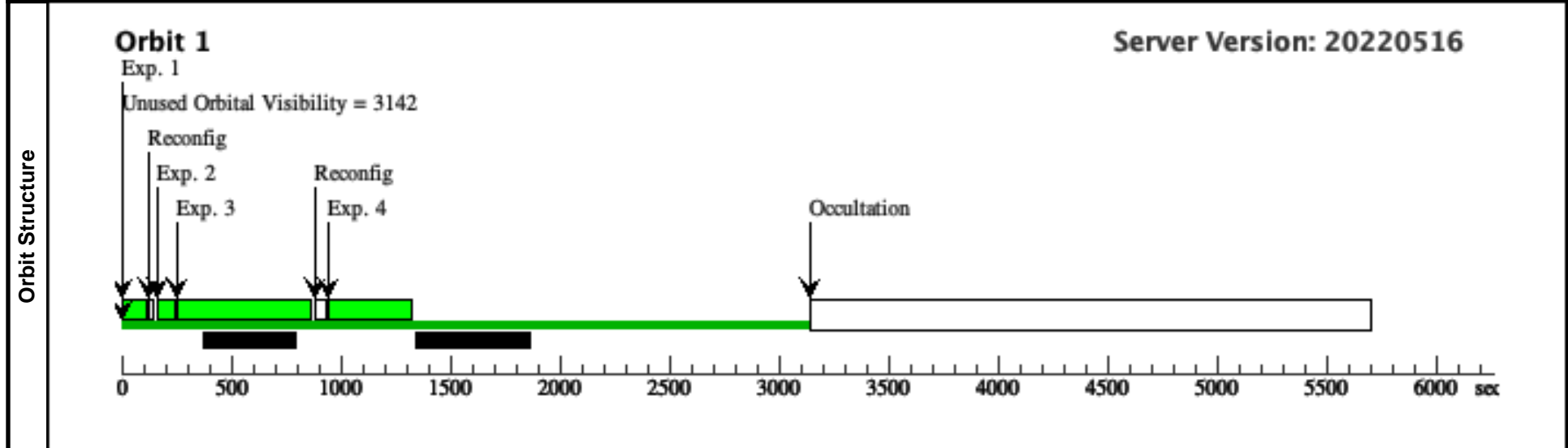
Proposal 17013 - epoch 2 (10) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:22 GMT 2022

Visit	Proposal 17013, epoch 2 (10) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: AFTER 09 BY 5 H TO 24 H; BETWEEN 01-JUN-2023 AND 01-SEP-2023

Diagnostics	(epoch 2 (10)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	Warm-up Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
	4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



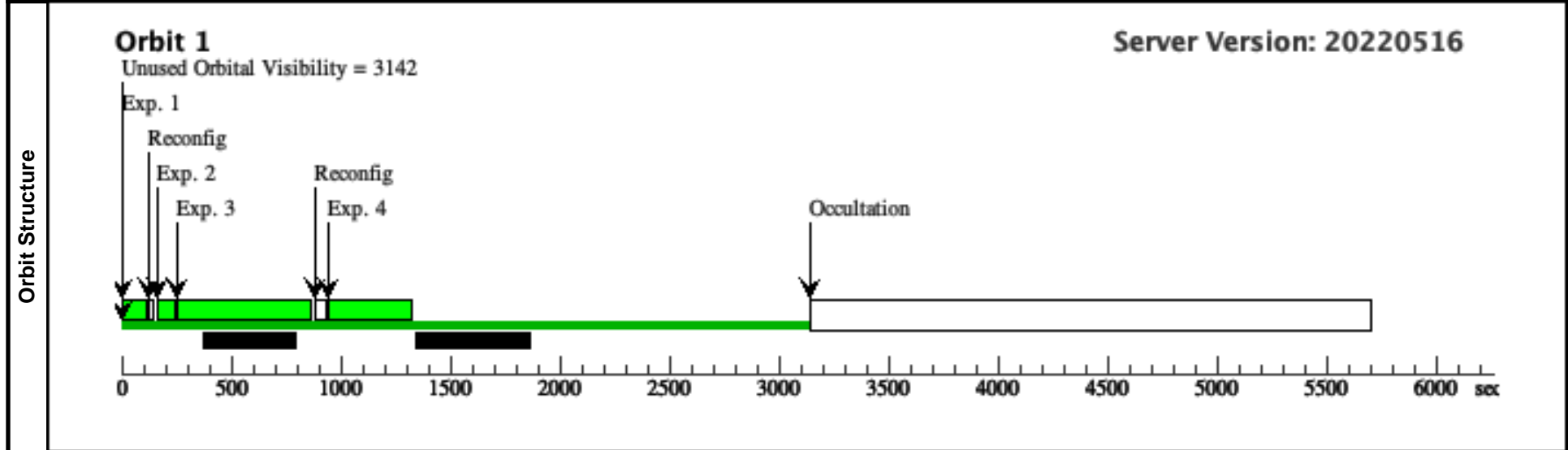
Proposal 17013 - epoch 2 (11) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:22 GMT 2022

Visit	Proposal 17013, epoch 2 (11) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 01-JUN-2023 AND 01-SEP-2023
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Diagnostics	(epoch 2 (11)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
2	Warm-up Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



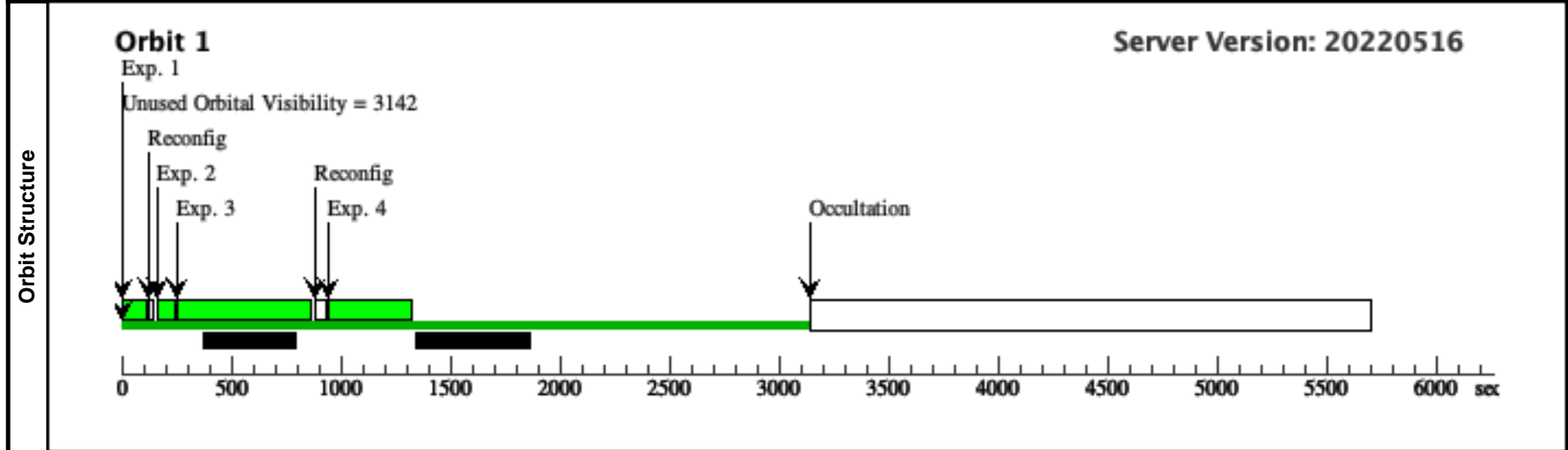
Proposal 17013 - epoch 2 (12) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:22 GMT 2022

Visit	Proposal 17013, epoch 2 (12) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: AFTER 11 BY 5 H TO 24 H; BETWEEN 01-JUN-2023 AND 01-SEP-2023

Diagnostics	(epoch 2 (12)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	Warm-up Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
	4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



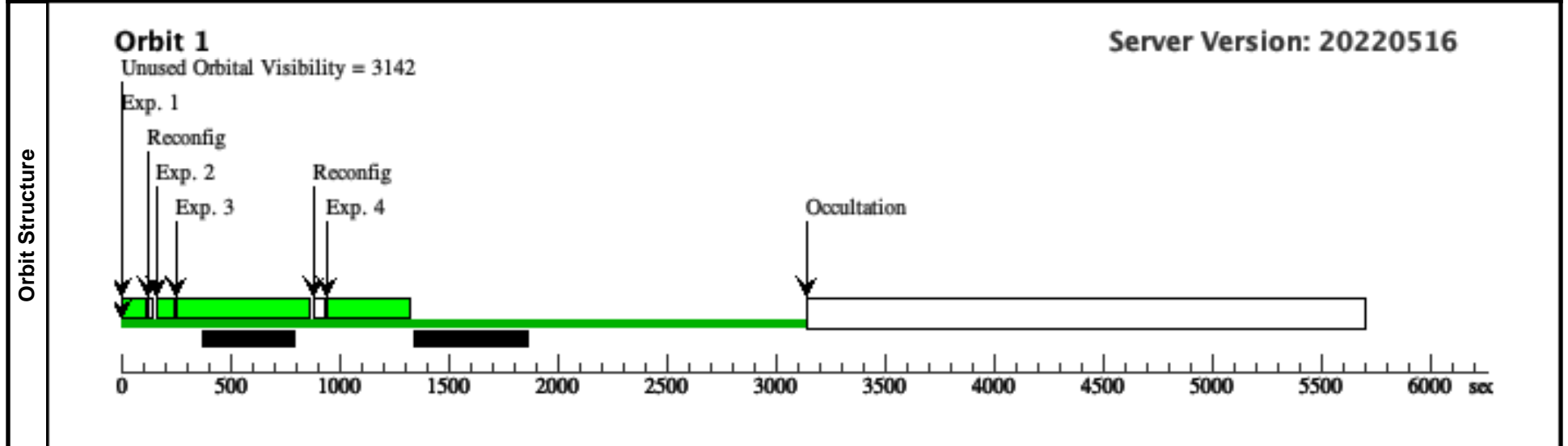
Proposal 17013 - epoch 2 (13) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:22 GMT 2022

Visit	Proposal 17013, epoch 2 (13) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 01-JUN-2023 AND 01-SEP-2023
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Diagnostics	(epoch 2 (13)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
2	Warm-up Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



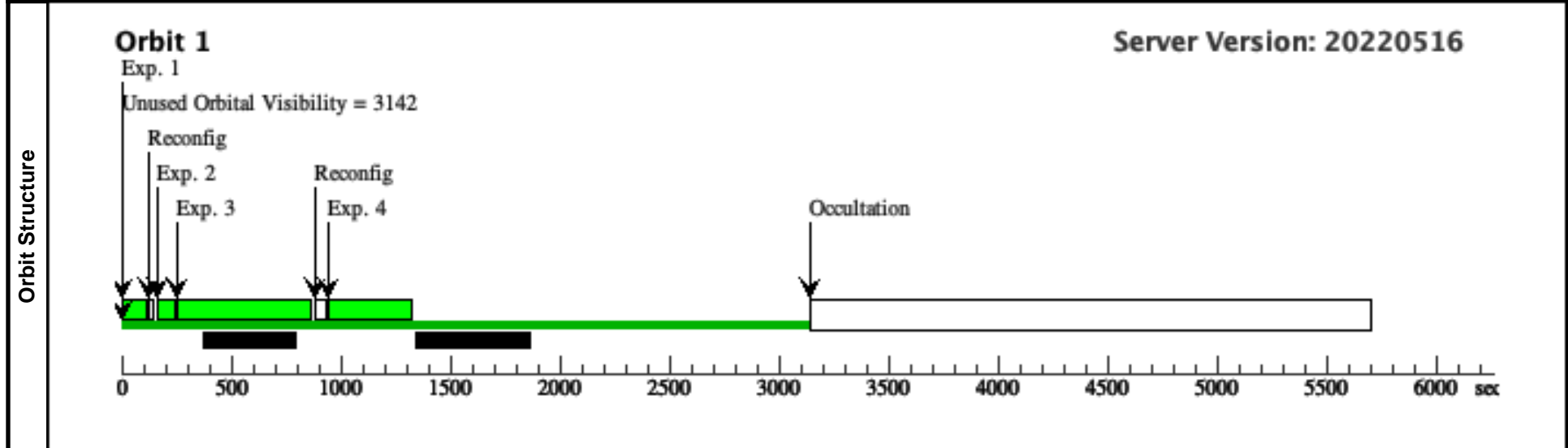
Proposal 17013 - epoch 2 (14) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:22 GMT 2022

Visit	Proposal 17013, epoch 2 (14) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: AFTER 13 BY 5 H TO 24 H; BETWEEN 01-JUN-2023 AND 01-SEP-2023

Diagnostics	(epoch 2 (14)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	Warm-up Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
	4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



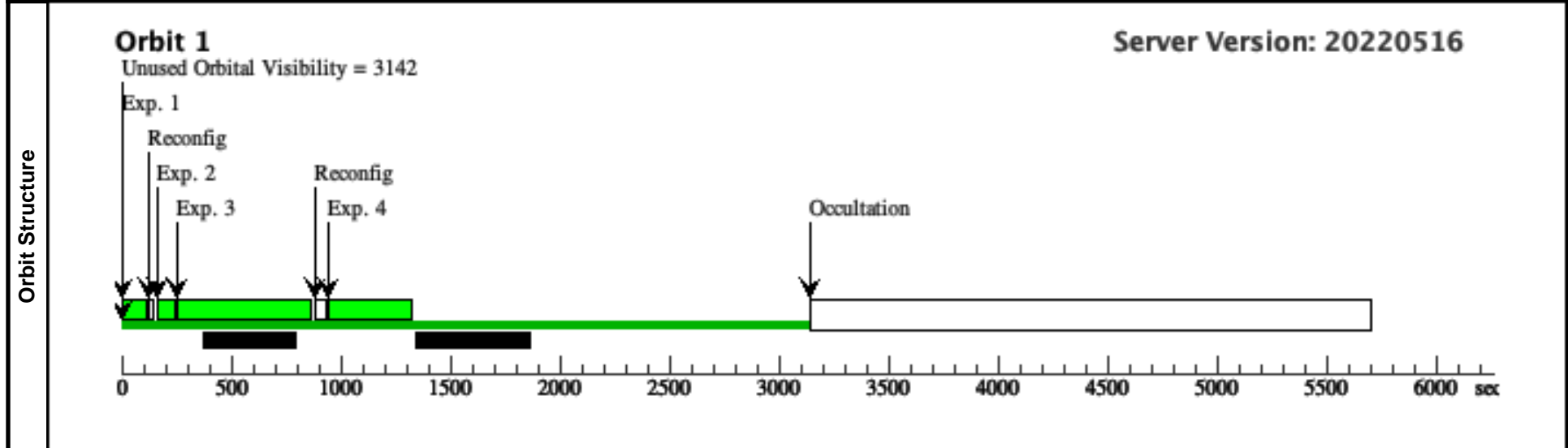
Proposal 17013 - epoch 2 (15) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:22 GMT 2022

Visit	Proposal 17013, epoch 2 (15) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 01-JUN-2023 AND 01-SEP-2023

Diagnostics	(epoch 2 (15)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
2	Warm-up Flat at	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]



Proposal 17013 - epoch 2 (16) - WFC3 IR Gain Monitor

Fri Jul 08 18:00:22 GMT 2022

Visit	Proposal 17013, epoch 2 (16) Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: AFTER 15 BY 5 H TO 24 H; BETWEEN 01-JUN-2023 AND 01-SEP-2023

Diagnostics	(epoch 2 (16)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU
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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Dark	DARK-NM	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
2	Warm-up Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
3	Gain Flat	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=13; SAMP-SEQ=SPAR S50			602.937703 Secs (602.938 Secs) [==>]	[1]
4	Persistence Dark	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=15; SAMP-SEQ=SPAR S25			352.939501 Secs (352.94 Secs) [==>]	[1]

