



11449 - IR SAA Passage Behavior

Cycle: 17, Proposal Category: SM4/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Andre Martel (PI)	Space Telescope Science Institute	martel@pha.jhu.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	WFC3/IR	1	21-Apr-2008 21:12:45.0	yes
02	DARK	WFC3/IR	1	21-Apr-2008 21:13:08.0	yes
03	DARK	WFC3/IR	1	21-Apr-2008 21:13:25.0	yes

3 Total Orbits Used

ABSTRACT

In this program, the behavior of the WFC3 IR FPA through the Southern Atlantic Anomaly (SAA) as well as following the SAA crossing will be characterized. Short and long term residual effects may consist of high cosmic ray (CR) hit rates, high dark and background levels, residual glow and count rates, flip memory bits, etc.... The data will help refine the shape of the SAA contours for WFC3 (the initial SAA model for WFC3 IR is 30 which is the same as the ACS CCDs and WFPC2, as well as WFC3 UVIS (but labeled 29)).

This proposal corresponds to activity ID WFC3-36.

OBSERVING DESCRIPTION

A series of short WFC3 IR darks will be acquired internally and without interruption before, during, and after the SAA passage. One orbit will cross the deepest part of the SAA for maximum impact, and two additional orbits skirting the inner edges of the northwest and northeast sections of the SAA will help map the true extent of the appropriate contours for WFC3 IR. All frames will be acquired in the default readout mode of the IR FPA (four amplifier readout, gain of 2.5 e-/DN, and no binning). The integration time of each dark must be long enough to efficiently dump the WFC3 buffer without any breaks in the sequence of images.

ADDITIONAL COMMENTS

No other WFC3 IR visits should be scheduled between the visits in the proposal. Any WFC3 IR visits should be scheduled more than 3 orbits after the visits in this proposal.

Proposal 11449 - Visit 01 - IR SAA Passage Behavior

Tue Apr 22 01:13:31 GMT 2008

Visit	<p>Proposal 11449, Visit 01, implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: GYRO MODE 3GOBAD</p> <p><i>Comments: First of three SAA-impacted orbits : HST skirts the inner edge of the northwest section of the SAA model 30. A series of darks is taken before, throughout, and after the SAA passage. Note : In this region, model 30 matches well with the NICMOS contour 23.</i></p>									
	Diagnostics	(Visit 01) Warning (OP): EXPOSURE WITH SAA CONTOUR 11 WILL EXECUTE ON GYRO								
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Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]
	1	Dark 1	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]

Proposal 11449 - Visit 01 - IR SAA Passage Behavior

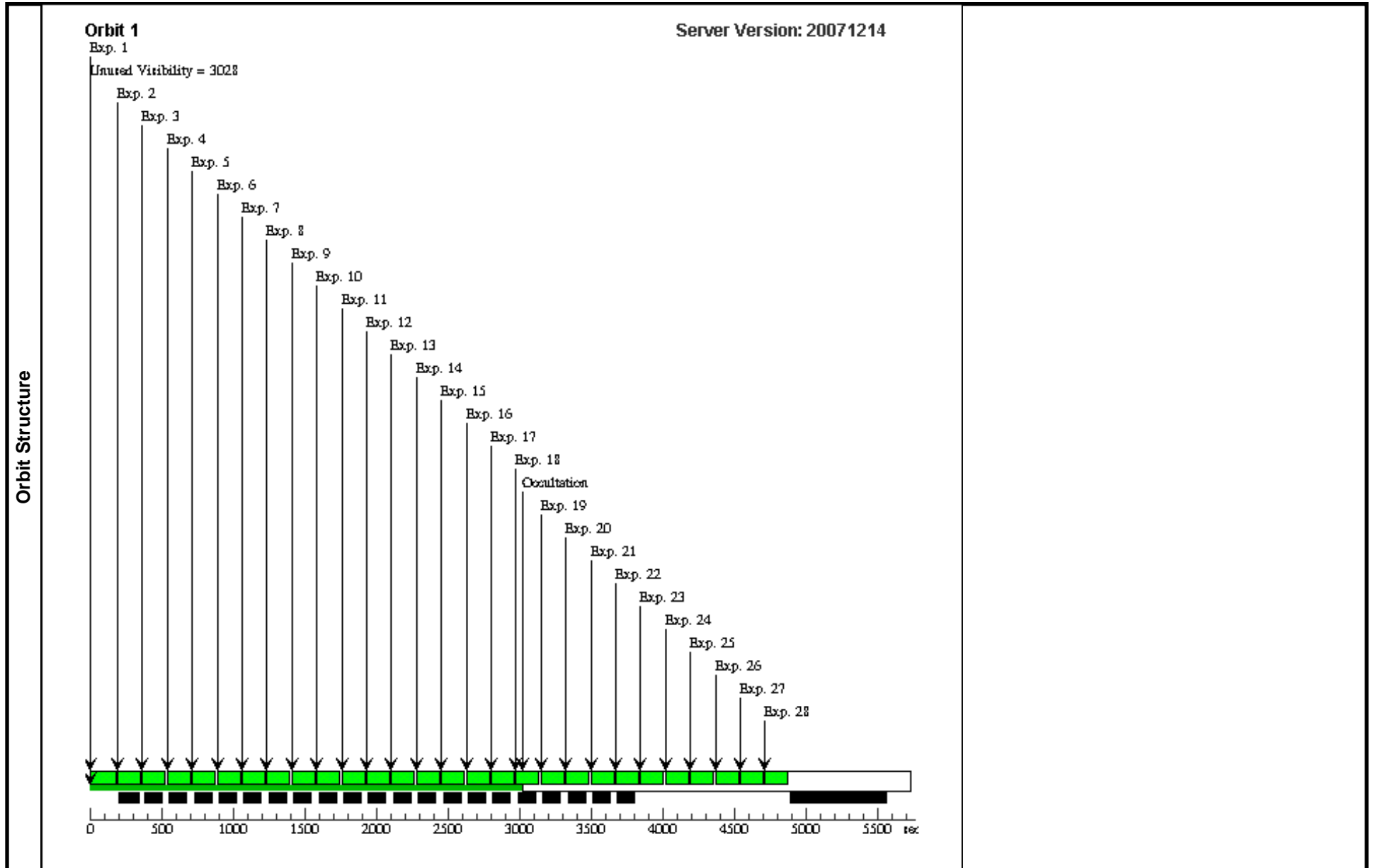
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
2	Dark 2	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
3	Dark 3	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
4	Dark 4	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
5	Dark 5	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
6	Dark 6	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
7	Dark 7	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
8	Dark 8	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
9	Dark 9	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
10	Dark 10	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
11	Dark 11	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
12	Dark 12	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
13	Dark 13	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
14	Dark 14	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
15	Dark 15	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]

Exposures (continued)

Proposal 11449 - Visit 01 - IR SAA Passage Behavior

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
16	Dark 16	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
17	Dark 17	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
18	Dark 18	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
19	Dark 19	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
20	Dark 20	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
21	Dark 21	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
22	Dark 22	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
23	Dark 23	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
24	Dark 24	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
25	Dark 25	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
26	Dark 26	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
27	Dark 27	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
28	Dark 28	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]

Exposures (continued)



Proposal 11449 - Visit 02 - IR SAA Passage Behavior

Tue Apr 22 01:13:34 GMT 2008

Visit	Proposal 11449, Visit 02, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: GYRO MODE 3GOBAD <i>Comments: Second of three SAA-impacted orbits : HST crosses the deepest part of the SAA model 30. A series of darks is taken before, throughout, and after the SAA passage.</i>										
	Diagnostics	(Visit 02) Warning (OP): EXPOSURE WITH SAA CONTOUR 11 WILL EXECUTE ON GYRO									
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Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1	Dark 1	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]

Proposal 11449 - Visit 02 - IR SAA Passage Behavior

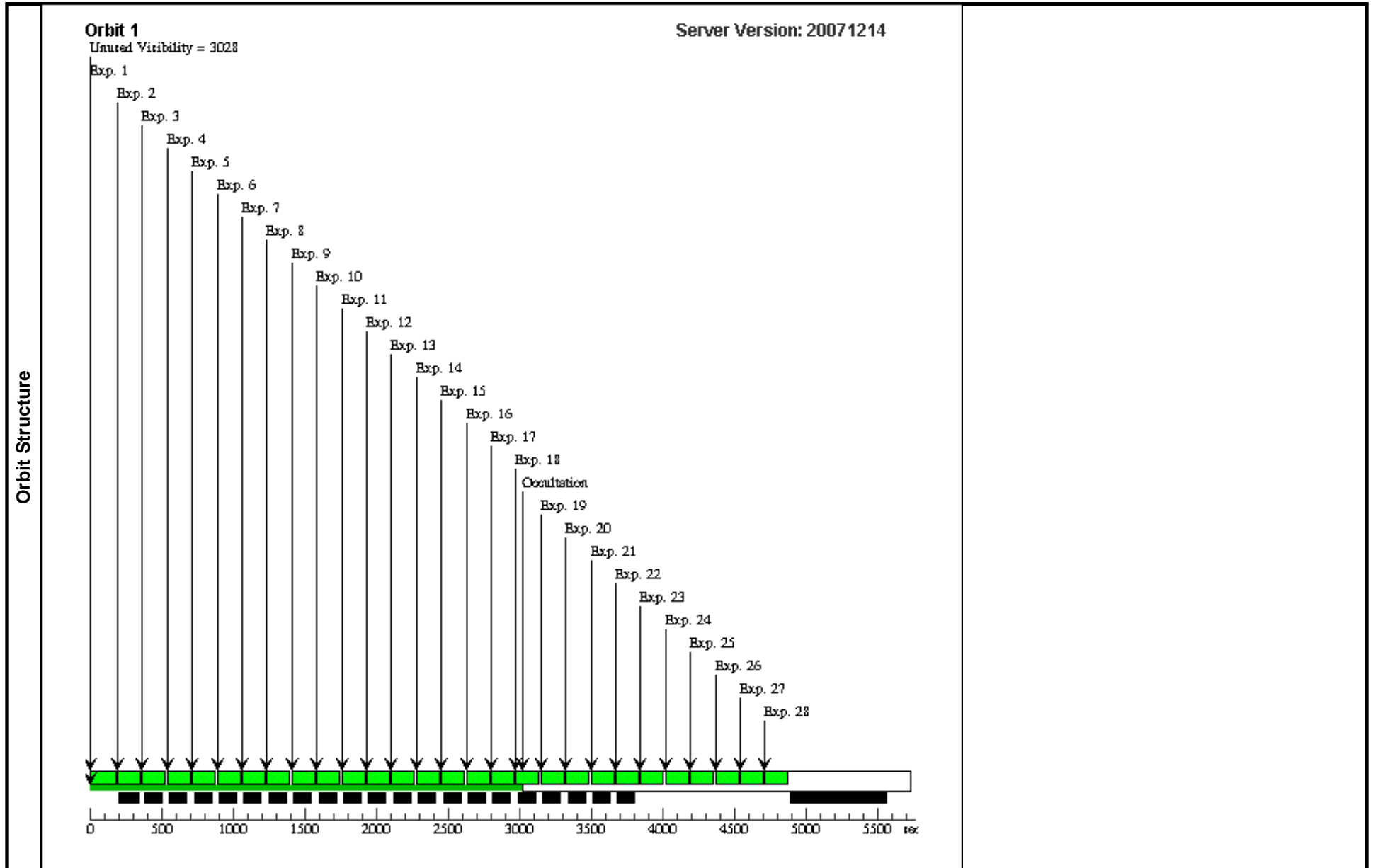
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
2	Dark 2	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
3	Dark 3	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
4	Dark 4	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
5	Dark 5	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
6	Dark 6	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
7	Dark 7	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
8	Dark 8	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
9	Dark 9	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
10	Dark 10	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
11	Dark 11	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
12	Dark 12	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
13	Dark 13	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
14	Dark 14	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
15	Dark 15	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]

Exposures (continued)

Proposal 11449 - Visit 02 - IR SAA Passage Behavior

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
16	Dark 16	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
17	Dark 17	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
18	Dark 18	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
19	Dark 19	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
20	Dark 20	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
21	Dark 21	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
22	Dark 22	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
23	Dark 23	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
24	Dark 24	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
25	Dark 25	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
26	Dark 26	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
27	Dark 27	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
28	Dark 28	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]

Exposures (continued)



Proposal 11449 - Visit 03 - IR SAA Passage Behavior

Tue Apr 22 01:13:36 GMT 2008

Visit	<p>Proposal 11449, Visit 03, implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: GYRO MODE 3GOBAD</p> <p><i>Comments: Third of three SAA-impacted orbits : HST skirts the inner edge of the northeast section of the SAA model 30. A series of darks is taken before, throughout, and after the SAA passage. Note : The "southern" section of this orbit, after exiting the model 30 contours, will still be within the NICMOS contour 23 and so will help compare the extent of the SAA for the WFC3 and NICMOS IR detectors.</i></p>										
	Diagnostics	(Visit 03) Warning (OP): EXPOSURE WITH SAA CONTOUR 11 WILL EXECUTE ON GYRO									
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Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1	Dark 1	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]

Proposal 11449 - Visit 03 - IR SAA Passage Behavior

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
2	Dark 2	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
3	Dark 3	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
4	Dark 4	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
5	Dark 5	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
6	Dark 6	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
7	Dark 7	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
8	Dark 8	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
9	Dark 9	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
10	Dark 10	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
11	Dark 11	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
12	Dark 12	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
13	Dark 13	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
14	Dark 14	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
15	Dark 15	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]

Exposures (continued)

Proposal 11449 - Visit 03 - IR SAA Passage Behavior

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
16	Dark 16	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
17	Dark 17	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
18	Dark 18	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
19	Dark 19	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
20	Dark 20	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
21	Dark 21	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
22	Dark 22	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
23	Dark 23	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
24	Dark 24	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
25	Dark 25	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
26	Dark 26	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
27	Dark 27	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]
28	Dark 28	DARK	WFC3/IR, MULTIACCUM, IR	BLANK	NSAMP=4; SAMP-SEQ=SPAR S50	SAA CONTOUR 11		[==>]	[1]

Exposures (continued)

