11664 - The WFC3 Galactic Bulge Treasury Program: Populations, Formation History, and Planets

Cycle: 17, Proposal Category: GO

(Treasury)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) BULGE-SWEEPS	WFC3/UVIS	2	16-Mar-2010 21:02:00.0	yes
02	(1) BULGE-SWEEPS	WFC3/UVIS	2	16-Mar-2010 21:02:06.0	yes
03	(1) BULGE-SWEEPS	WFC3/UVIS	2	16-Mar-2010 21:02:14.0	yes
04	(1) BULGE-SWEEPS	WFC3/IR	2	16-Mar-2010 21:02:35.0	yes
11	(2) BULGE-STANEK	WFC3/UVIS	2	16-Mar-2010 21:02:43.0	yes
12	(2) BULGE-STANEK	WFC3/UVIS	2	16-Mar-2010 21:02:46.0	yes
13	(2) BULGE-STANEK	WFC3/UVIS	2	16-Mar-2010 21:02:55.0	yes
14	(2) BULGE-STANEK	WFC3/IR	2	16-Mar-2010 21:03:13.0	yes
21	(3) BULGE-OGLE29	WFC3/UVIS	2	16-Mar-2010 21:03:21.0	yes
22	(3) BULGE-OGLE29	WFC3/UVIS	2	16-Mar-2010 21:03:24.0	yes
27	(3) BULGE-OGLE29	WFC3/UVIS	2	16-Mar-2010 21:03:26.0	yes
23	(3) BULGE-OGLE29	WFC3/UVIS	2	16-Mar-2010 21:03:34.0	yes
24	(3) BULGE-OGLE29	WFC3/IR	2	16-Mar-2010 21:03:52.0	yes
29	(3) BULGE-OGLE29	WFC3/IR	2	16-Mar-2010 21:04:12.0	yes
31	(4) BULGE-BAADE	WFC3/UVIS	2	16-Mar-2010 21:04:19.0	yes
32	(4) BULGE-BAADE	WFC3/UVIS	2	16-Mar-2010 21:04:22.0	yes
33	(4) BULGE-BAADE	WFC3/UVIS	2	16-Mar-2010 21:04:30.0	yes
34	(4) BULGE-BAADE	WFC3/IR	2	16-Mar-2010 21:04:45.0	yes
41	(5) DISK	WFC3/IR WFC3/UVIS	3	16-Mar-2010 21:05:12.0	yes
51	(6) NGC6528	WFC3/IR WFC3/UVIS	3	16-Mar-2010 21:05:29.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
52	(7) NGC5927	WFC3/IR WFC3/UVIS	3	16-Mar-2010 21:05:46.0	yes
53	(8) NGC104	WFC3/IR WFC3/UVIS	3	16-Mar-2010 21:06:02.0	yes
54	(9) NGC6752	WFC3/IR WFC3/UVIS	3	16-Mar-2010 21:06:20.0	yes
55	(10) NGC6341	WFC3/IR WFC3/UVIS	3	16-Mar-2010 21:06:36.0	yes
56	(11) NGC6791	WFC3/IR WFC3/UVIS	3	16-Mar-2010 21:06:52.0	yes

57 Total Orbits Used

ABSTRACT

Exploiting the full power of the Wide Field Camera 3 (WFC3), we propose deep panchromatic imaging of four fields in the Galactic bulge. These data will enable a sensitive dissection of its stellar populations, using a new set of reddening-free photometric indices we have constructed from broad-band filters across UV, optical, and near-IR wavelengths. These indices will provide accurate temperatures and metallicities for hundreds of thousands of individual bulge stars. Proper motions of these stars derived from multi-epoch observations will allow separation of pure bulge samples from foreground disk contamination. Our catalogs of proper motions and panchromatic photometry will support a wide range of bulge studies.

Using these photometric and astrometric tools, we will reconstruct the detailed star-formation history as a function of position within the bulge, and thus differentiate between rapid- and extended-formation scenarios. We will also measure the dependence of the stellar mass function on metallicity, revealing how the characteristic mass of star formation varies with chemistry. Our sample of bulge stars with accurate metallicities will include 12 candidate hosts of extrasolar planets. Planet frequency is correlated with metallicity in the solar neighborhood; our measurements will extend this knowledge to a remote environment with a very distinct chemistry.

Our proposal also includes observations of six well-studied globular and open star clusters; these observations will serve to calibrate our photometric indices, provide empirical population templates, and transform the theoretical isochrone libraries into the WFC3 filter system. Besides enabling our own program, these products will provide powerful new tools for a host of other stellar-population investigations with HST/WFC3. We will deliver all of the products from this Treasury Program to the community in a timely fashion.

OBSERVING DESCRIPTION

The program is straightforward. We will image 4 fields in the bulge with 5 WFC3 filters (UVIS/F390W, UVIS/F555W, UVIS/F814W, IR/F110W, IR/F160W), 6 Galactic star clusters with the same filters, and a disk field with 3 filters (UVIS/F555W, IR/F110W, IR/F160W). We spend 8 orbits on each of the bulge fields, 3 orbits on each of the clusters, and 3 orbits on the disk. Exposure times are staggered to increase dynamic range. Orientation is constrained for the BULGE-SWEEPS field, due to existing extrasolar planet hosts in this field that must fit within the WFC3 FOV; these hosts were originally discovered in the larger ACS/WFC FOV.

ADDITIONAL COMMENTS

Five of the six star clusters in GO-11664 are also being imaged with WFC3 in program GO-11729. These star clusters are intended as population templates to the community, and the data are non-proprietary in each program. To maximize the scientific return to the community, it would be useful to schedule these visits at the same orientation, although there is no formal mechanism in the APT to designate "SAME ORIENT AS..." with a pointer to a visit in another program. Although the two programs could agree upon arbitrary orients for each cluster, designating such orients up front would introduce significant scheduling constraints. Instead, we are requesting here that these visits be scheduled at the same orient. The two programs are already using the same target coordinates for the clusters in common.

The visits that should be paired at the same orient are:

TARGET.....GO-11664 VISIT.....GO-11729 VISIT
NGC5927.....52.....5

Visit

Proposal 11664, Visit 01, scheduling Wed Mar 17 01:07:00 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 28D TO 31 D; ORIENT 114D TO 116.5 D; ORIENT 122D TO 127 D; ORIENT 206D TO 212 D; ORIENT 290D TO 298.5 D; ORIENT 303D TO 305 D

Comments: F390W (C) visit
1 short exposure offset by (+0.75,-20) pixels
4 long exposures in a 4-point dither pattern to resample the PSF, but offset by (0,-20) pixels.

Diagnostics

(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN

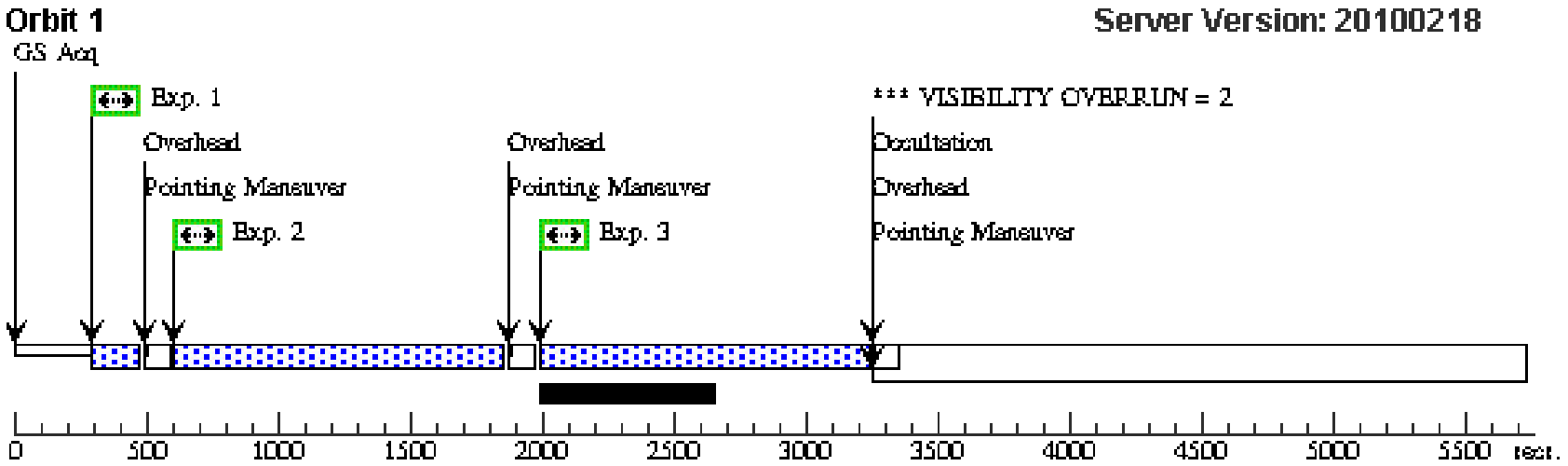
Fixed Targets

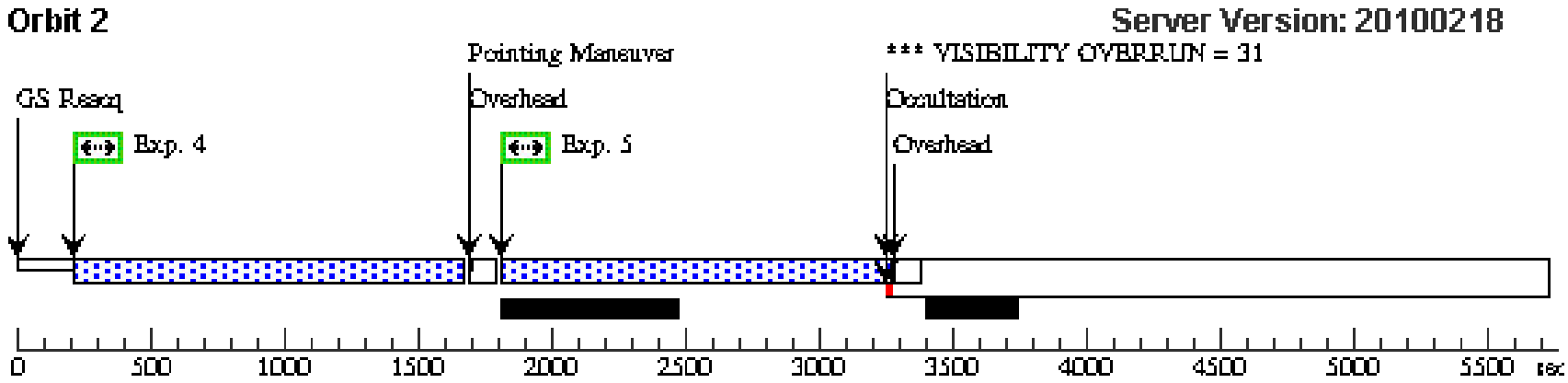
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	BULGE-SWEEPS	RA: 17 58 59.1716 (269.7465483d) Dec: -29 12 17.73 (-29.20493d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	short1c	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.0297,-0.7886		150 Secs *[==>]*	*[1]*
2	long1c	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297,-0.7926		1255 Secs *[==>]*	*[1]*
3	long2c	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1288,-0.7225		1255 Secs *[==>]*	*[1]*
4	long3c	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.0693,-0.6277		1465 Secs *[==>]*	*[2]*
5	long4c	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0891,-0.6979		1465 Secs *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 11664, Visit 02, scheduling Wed Mar 17 01:07:02 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SAME ORIENT AS 01

Comments: F390W (C) visit
1 short exposure offset by (-0.75,+20) pixels
4 long exposures in a 4-point dither pattern to resample the PSF, but offset by (0,+20) pixels.

Diagnostics

(Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN

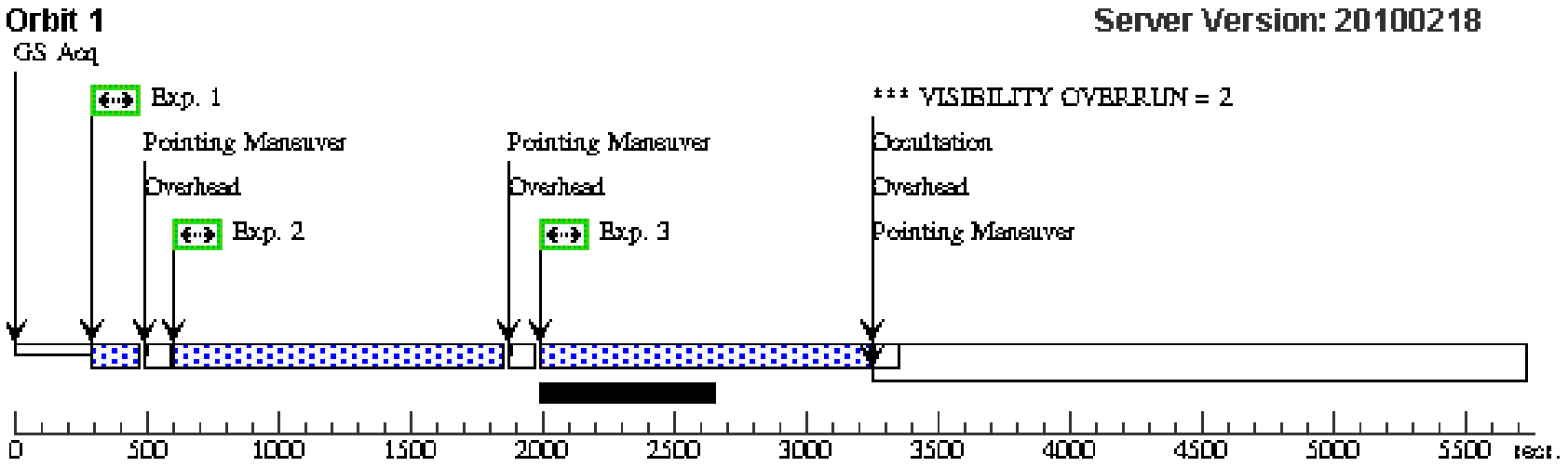
Fixed Targets

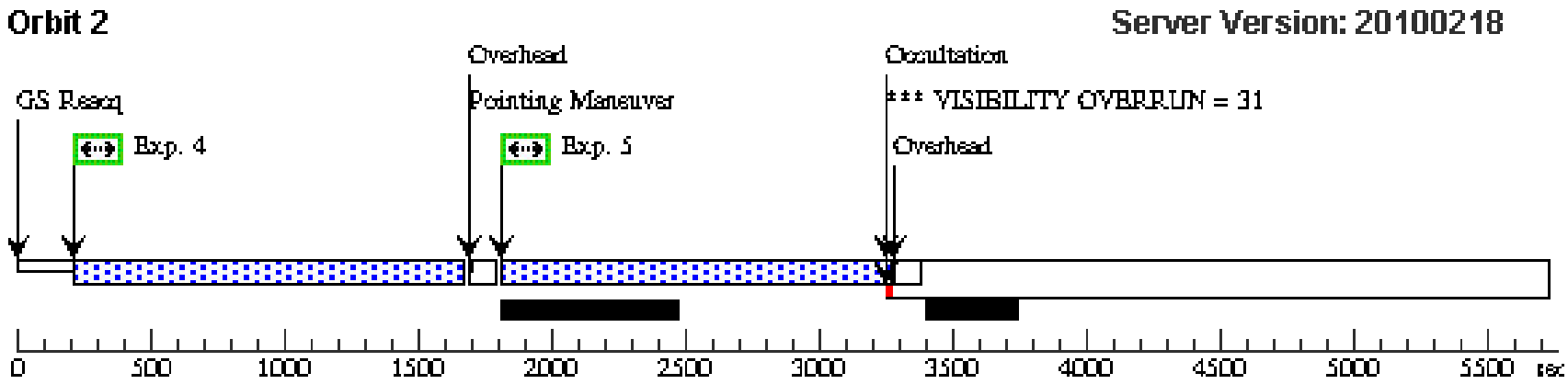
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	BULGE-SWEEPS	RA: 17 58 59.1716 (269.7465483d) Dec: -29 12 17.73 (-29.20493d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	short1c	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297, 0.7886		150 Secs *[==>]*	 ***[1]***
2	long1c	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.0297,0.7926		1255 Secs *[==>]*	 ***[1]***
3	long2c	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1882,0.8628		1255 Secs *[==>]*	 ***[1]***
4	long3c	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1288,0.9576		1465 Secs *[==>]*	 ***[2]***
5	long4c	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297, 0.8874		1465 Secs *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 11664, Visit 03, scheduling Wed Mar 17 01:07:03 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SAME ORIENT AS 01

Comments: F814W (I; orbit 1) and F555W (V; orbit 2).
7 exposures per orbit.
2 short exposures at (+0.75,-20) and (-0.75,+20), with exposure times of 1 sec and 10 sec, respectively.
4 medium exposures (348 sec each) in a 4-point dither pattern to resample the PSF, but with the first two offset by (0,-40) and the second two offset by (0,0).
1 long exposure (740 sec in orbit 1, 880 sec in orbit 2) offset by (0,+40).

Diagnostics

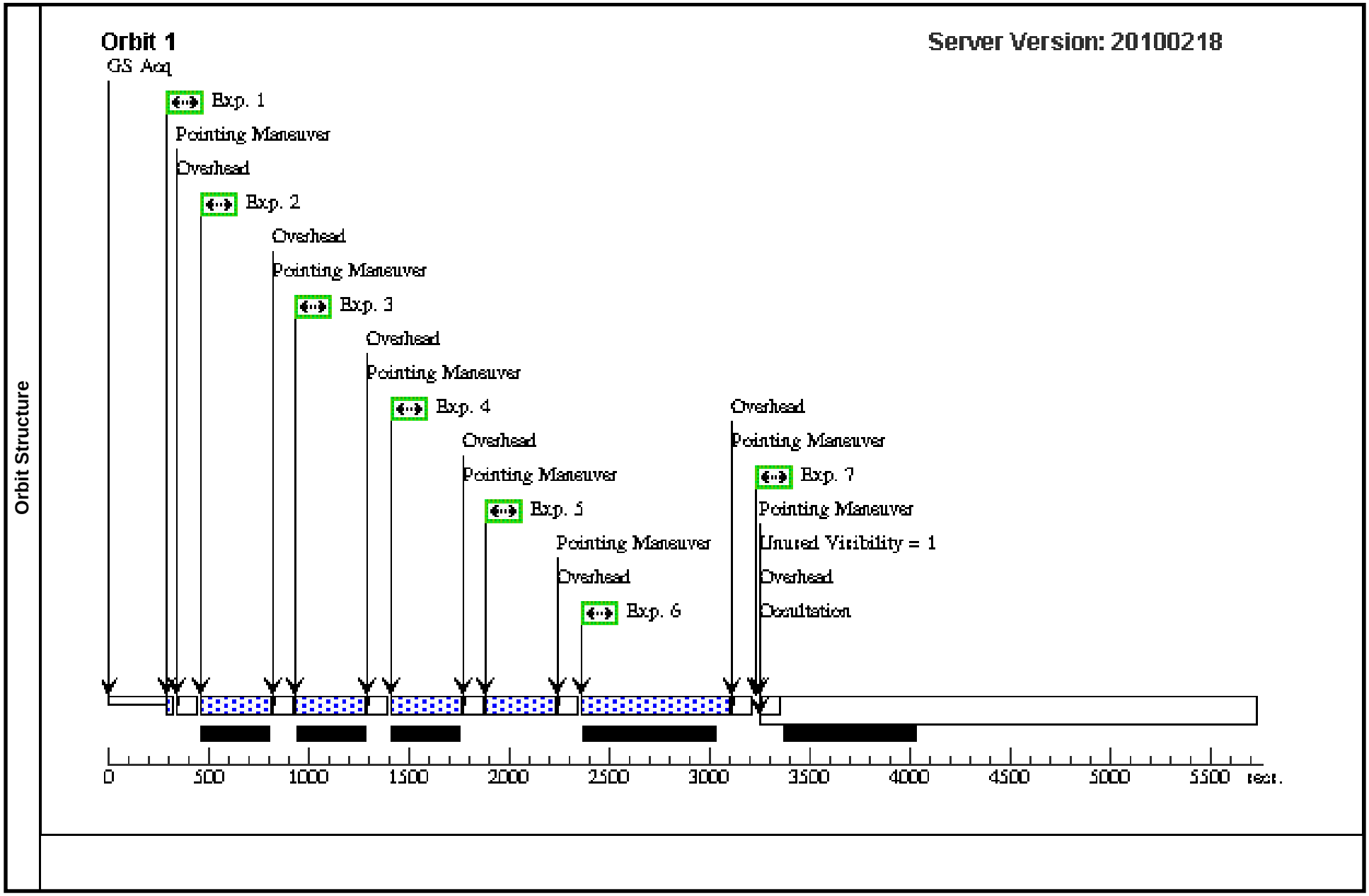
(Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN

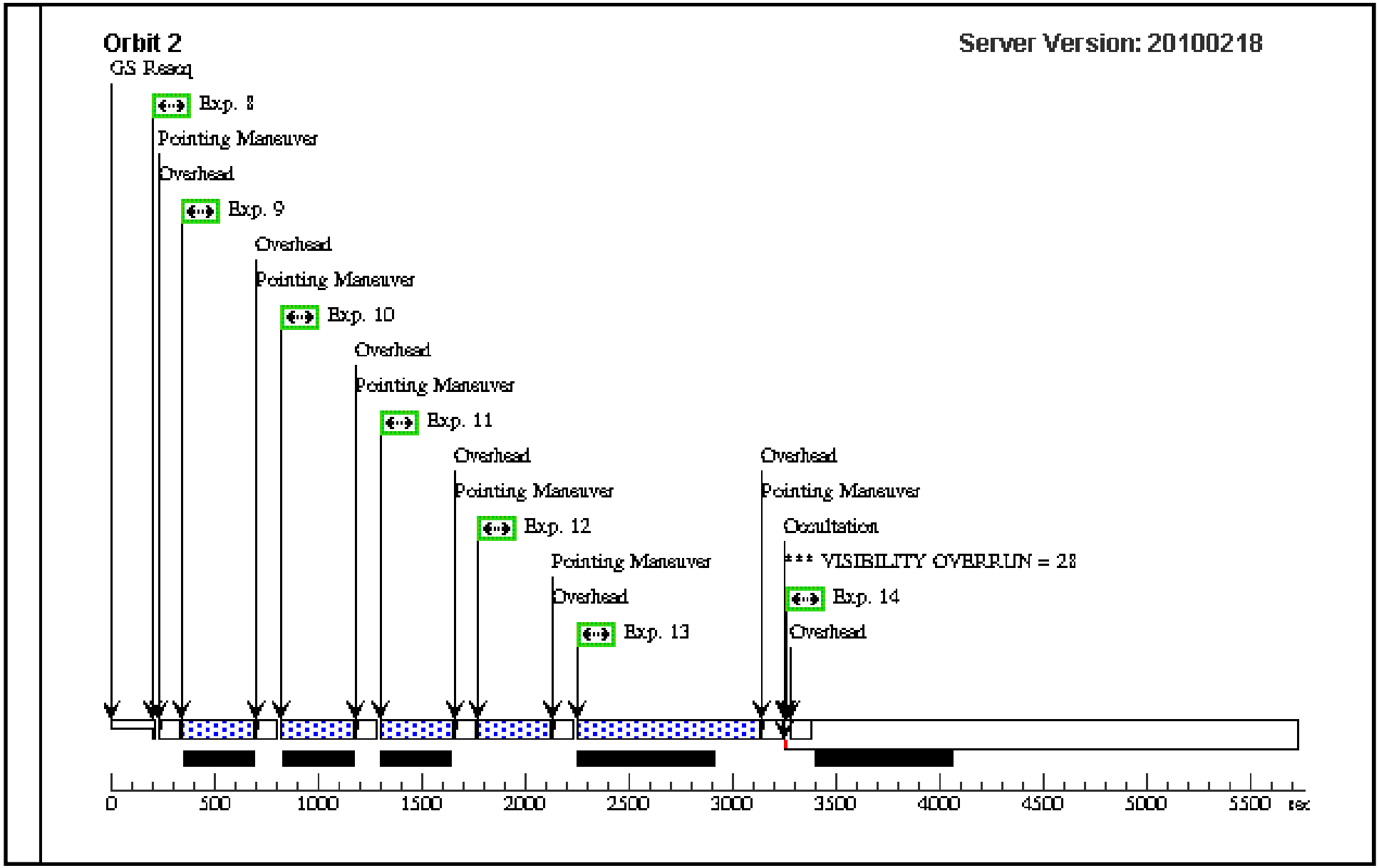
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	BULGE-SWEEPS	RA: 17 58 59.1716 (269.7465483d) Dec: -29 12 17.73 (-29.20493d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	short1i	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0297,-0.7886		1 Secs	
								[==>]	***[1]***
2	medium1i	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0000,-1.5812		348 Secs	
								[==>]	***[1]***
3	medium2i	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.1585,-1.5110		348 Secs	
								[==>]	***[1]***
4	medium3i	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0991,0.1649		348 Secs	
								[==>]	***[1]***
5	medium4i	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG -0.0594,0.0947		348 Secs	
								[==>]	***[1]***
6	long1i	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0000,1.5812		740 Secs	
								[==>]	***[1]***
7	short2i	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG -0.0297,0.7886		10 Secs	
								[==>]	***[1]***
8	short1v	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0297,-0.7886		1 Secs	
								[==>]	***[2]***
9	medium1v	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0000,-1.5812		348 Secs	
								[==>]	***[2]***
10	medium2v	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.1585,-1.5110		348 Secs	
								[==>]	***[2]***
11	medium3v	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0991,0.1649		348 Secs	
								[==>]	***[2]***
12	medium4v	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG -0.0594,0.0947		348 Secs	
								[==>]	***[2]***
13	long1v	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0000,1.5812		880 Secs	
								[==>]	***[2]***
14	short2v	(1) BULGE-SWEEPS	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG -0.0297,0.7886		10 Secs	
								[==>]	***[2]***


Orbit Structure
Orbit 1
Server Version: 20100218
GS Acq
Exp. 1
Pointing Maneuver
Overhead
Exp. 2
Overhead
Pointing Maneuver
Exp. 3
Overhead
Pointing Maneuver
Exp. 4
Overhead
Pointing Maneuver
Exp. 5
Pointing Maneuver
Overhead
Exp. 6
Overhead
Pointing Maneuver
Exp. 7
Pointing Maneuver
Unused Visibility = 1
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 2
Server Version: 20100218
GS Reacq
Exp. 8
Pointing Maneuver
Overhead
Exp. 9
Overhead
Pointing Maneuver
Exp. 10
Overhead
Pointing Maneuver
Exp. 11
Overhead
Pointing Maneuver
Exp. 12
Pointing Maneuver
Overhead
Exp. 13
Overhead
Pointing Maneuver
Occultation
*** VISIBILITY OVERRUN = 28
Exp. 14
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 04, scheduling Wed Mar 17 01:07:04 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: SAME ORIENT AS 01

Comments: F110W (J) and F160W (H).
Two full-frame tiles and two 512x512 subarray tiles to mosaic the UVIS.
Each IR tile is dithered 2x2 for PSF resampling, so 16 images per filter in this visit.
A full-frame tile is paired to its nearest subarray tile in each orbit to avoid multiple GS-ACQs within a given orbit, but note that the 2nd orbit has a GS-ACQ instead of a GS-REACQ because of the distance between the right-hand and left-hand pairs of IR tiles.
STEP sample sequences are used in both subarray and full-frame tiles because this increases dynamic range.*
The large distances between the centers of the IR tiles causes an APT warning, but this is not a problem.
The dither sequence hits every position twice (once per filter), and does so in consecutive exposures to reduce pointing maneuver overheads.
Filter switching is done H1-J1-J2-H2-H3-J3-J4-H4 in each tile to minimize filter wheel motions.

Diagnostics

(Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
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(Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	BULGE-SWEEPS	RA: 17 58 59.1716 (269.7465483d) Dec: -29 12 17.73 (-29.20493d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

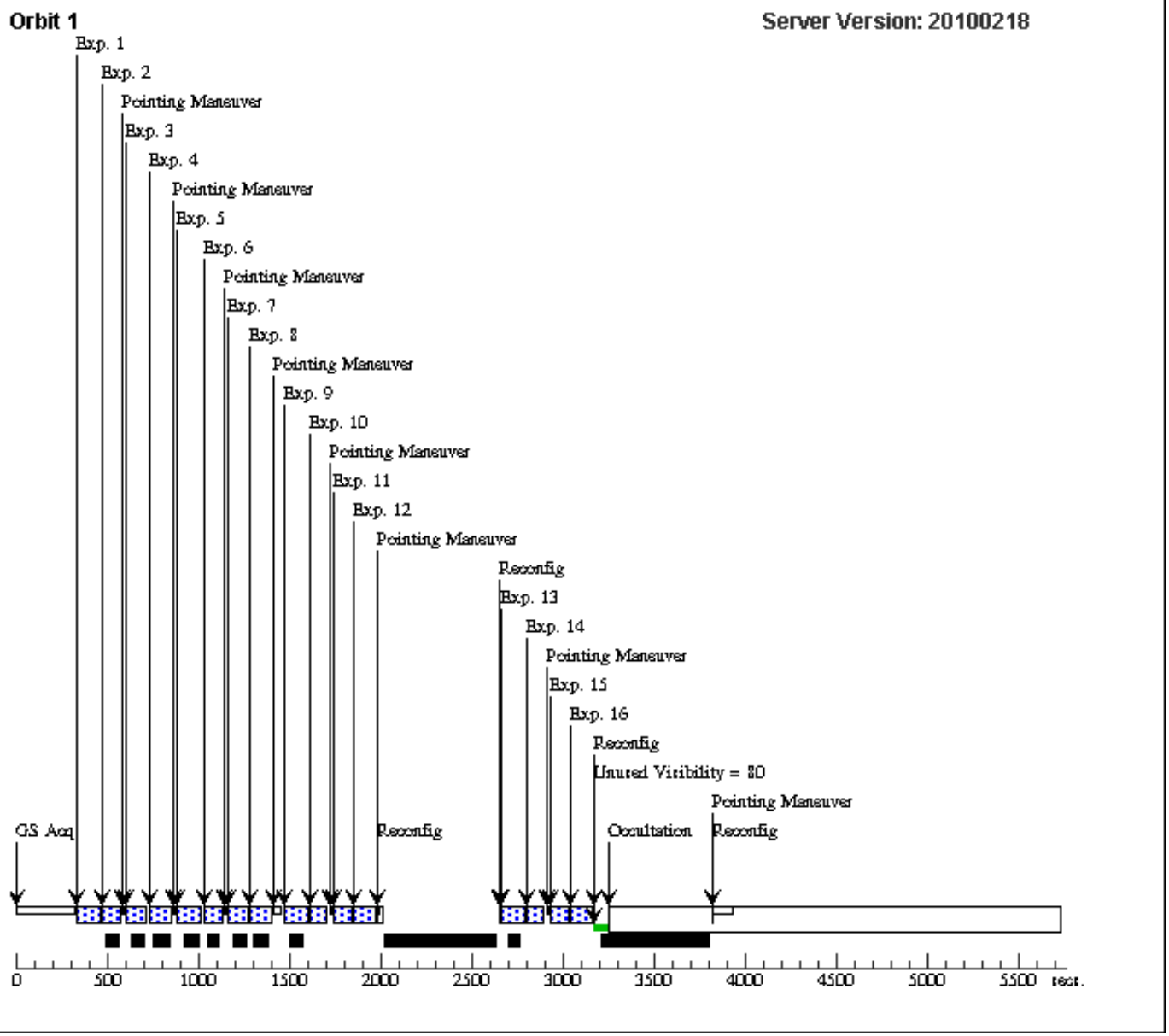
Exposures

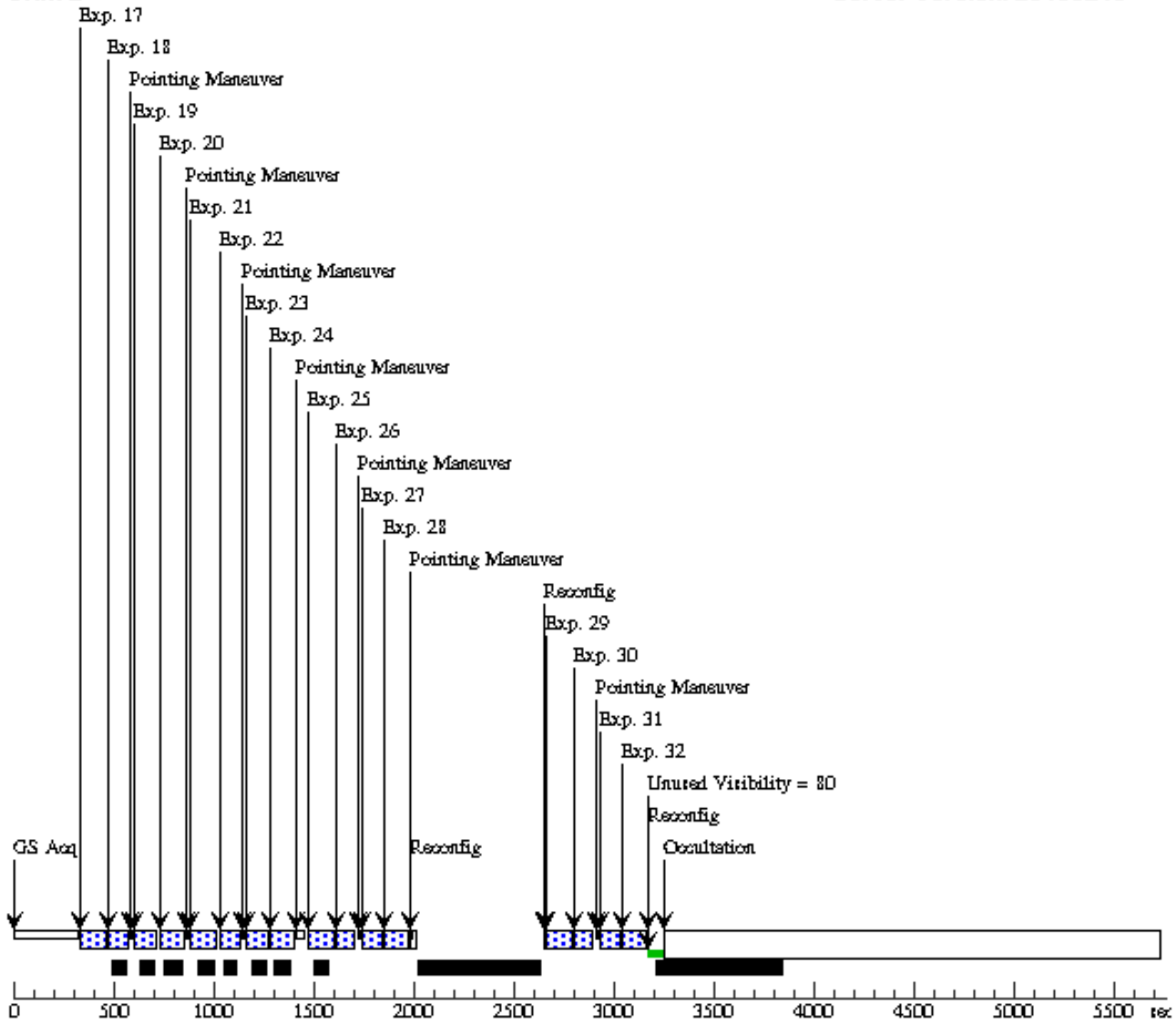
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	subLR1h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 47.8,-51.5		*[==>]*	***[1]***
2	subLR1j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 47.8,-51.5		*[==>]*	***[1]***
3	subLR2j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 48.3420, -51.3184		*[==>]*	***[1]***
4	subLR2h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 48.3420, -51.3184		*[==>]*	***[1]***
5	subLR3h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 48.1387, -51.0156		*[==>]*	***[1]***
6	subLR3j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 48.1387, -51.0156		*[==>]*	***[1]***
7	subLR4j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 47.5967, -51.1973		*[==>]*	***[1]***
8	subLR4h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 47.5967, -51.1973		*[==>]*	***[1]***
9	fullUR1h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 15,26		*[==>]*	***[1]***
10	fullUR1j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 15,26		*[==>]*	***[1]***
11	fullUR2j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 15.5420, 26.1817		*[==>]*	***[1]***
12	fullUR2h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 15.5420, 26.1817		*[==>]*	***[1]***
13	fullUR3h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 15.3387, 26.4844		*[==>]*	***[1]***
14	fullUR3j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 15.3387, 26.4844		*[==>]*	***[1]***

	15	fullUR4j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 14.7968, 26.3027	*[==>]*	***[1]***
	16	fullUR4h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 14.7968, 26.3027	*[==>]*	***[1]***
	17	subUL1h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -47.2,50.5	*[==>]*	***[2]***
	18	subUL1j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -47.2,50.5	*[==>]*	***[2]***
	19	subUL2j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -46.658, 50.6816	*[==>]*	***[2]***
	20	subUL2h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -46.658, 50.6816	*[==>]*	***[2]***
	21	subUL3h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -46.861 3,50.9844	*[==>]*	***[2]***
	22	subUL3j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -46.861 3,50.9844	*[==>]*	***[2]***
	23	subUL4j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -47.403 3,50.8027	*[==>]*	***[2]***
	24	subUL4h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -47.403 3,50.8027	*[==>]*	***[2]***
	25	fullLL1h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -13.50,-26.70	*[==>]*	***[2]***
	26	fullLL1j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -13.50,-26.70	*[==>]*	***[2]***
	27	fullLL2j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -12.958, -26.5184	*[==>]*	***[2]***
	28	fullLL2h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -12.958, -26.5184	*[==>]*	***[2]***

	29	fullLL3h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -13.1613,-26.2156	*[==>]*	***[2]***
	30	fullLL3j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -13.1613,-26.2156	*[==>]*	***[2]***
	31	fullLL4j	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -13.7032,-26.3973	*[==>]*	***[2]***
	32	fullLL4h	(1) BULGE-SWEEPS	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -13.7032,-26.3973	*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20100218
Exp. 17
Exp. 18
Pointing Maneuver
Exp. 19
Exp. 20
Pointing Maneuver
Exp. 21
Exp. 22
Pointing Maneuver
Exp. 23
Exp. 24
Pointing Maneuver
Exp. 25
Exp. 26
Pointing Maneuver
Exp. 27
Exp. 28
Pointing Maneuver
Reconfig
Exp. 29
Exp. 30
Pointing Maneuver
Exp. 31
Exp. 32
Unused Visibility = 80
Reconfig
Occultation
GS Acq
Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 11, scheduling Wed Mar 17 01:07:09 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Comments: F390W (C) visit
1 short exposure offset by (+0.75,-20) pixels
4 long exposures in a 4-point dither pattern to resample the PSF, but offset by (0,-20) pixels.

Diagnostics

(Visit 11) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 11) Warning (Orbit Planner): VISIBILITY OVERRUN

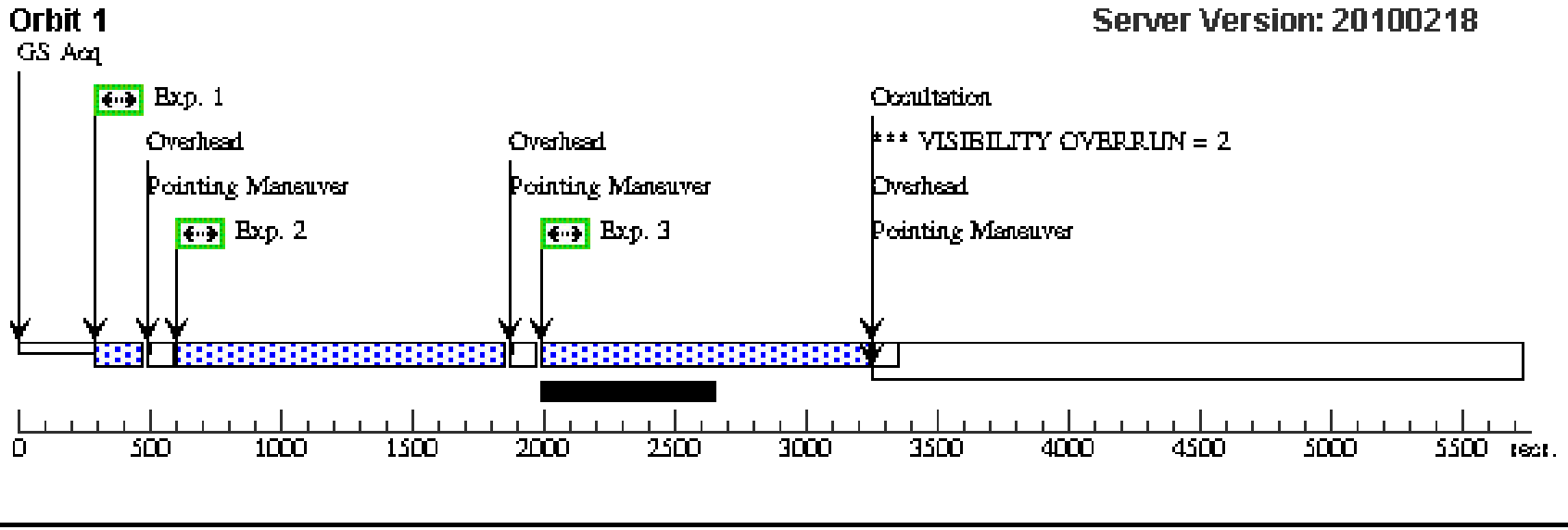
Fixed Targets

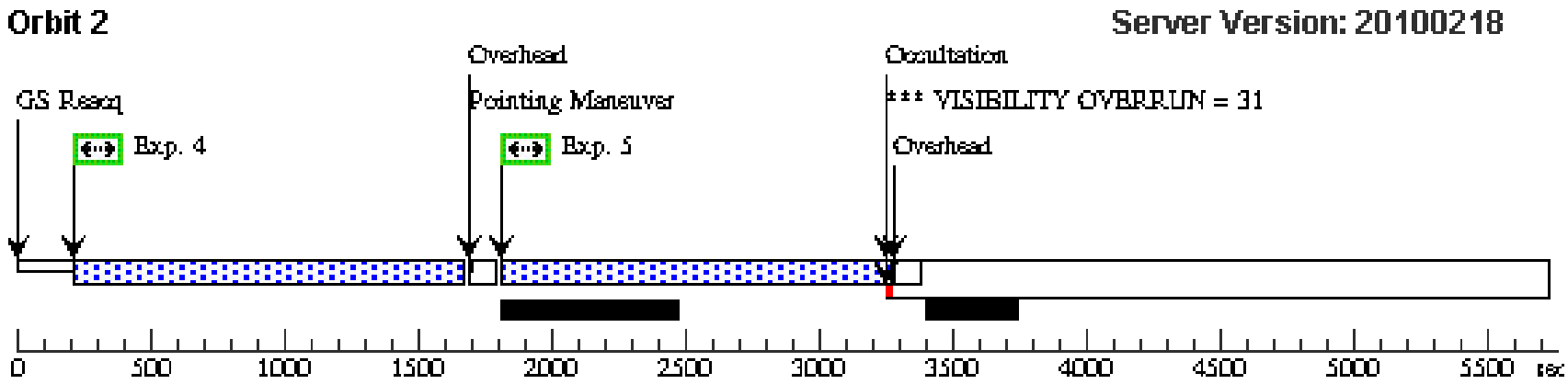
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	BULGE-STANEK	RA: 17 54 41.7100 (268.6737917d) Dec: -29 49 30.00 (-29.82500d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	short1c	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.0297,-0.7886		150 Secs *[==>]*	 ***[1]***
2	long1c	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297,-0.7926		1255 Secs *[==>]*	 ***[1]***
3	long2c	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1288,-0.7225		1255 Secs *[==>]*	 ***[1]***
4	long3c	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.0693,-0.6277		1465 Secs *[==>]*	 ***[2]***
5	long4c	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0891,-0.6979		1465 Secs *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 11664, Visit 12, scheduling Wed Mar 17 01:07:10 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SAME ORIENT AS 11

Comments: F390W (C) visit
1 short exposure offset by (-0.75,+20) pixels
4 long exposures in a 4-point dither pattern to resample the PSF, but offset by (0,+20) pixels.

Diagnostics

(Visit 12) Warning (Orbit Planner): VISIBILITY OVERRUN

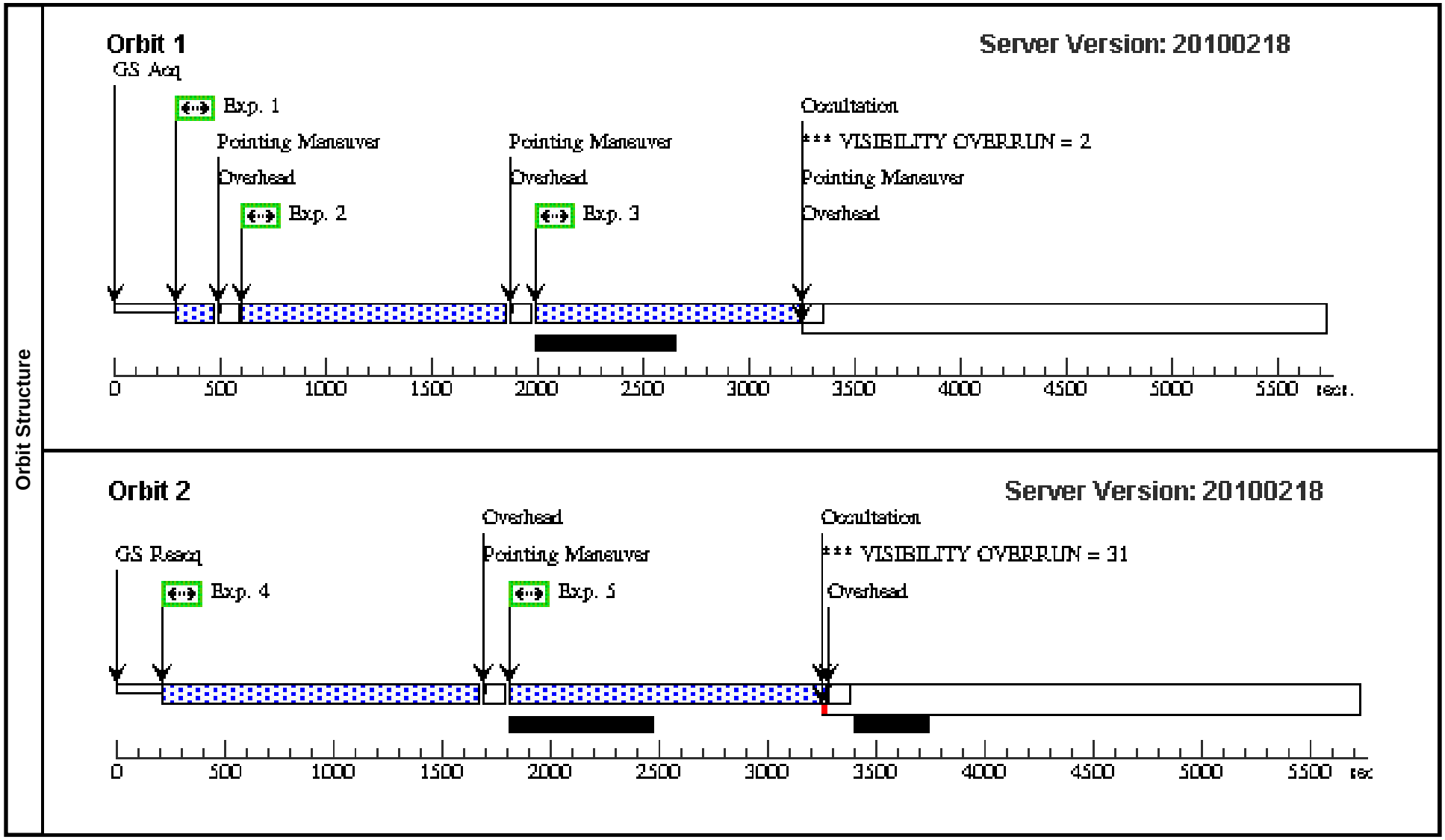
(Visit 12) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	BULGE-STANEK	RA: 17 54 41.7100 (268.6737917d) Dec: -29 49 30.00 (-29.82500d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	short1c	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297, 0.7886		150 Secs *[==>]*	 ***[1]***
2	long1c	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.0297,0.7926		1255 Secs *[==>]*	 ***[1]***
3	long2c	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1882,0.8628		1255 Secs *[==>]*	 ***[1]***
4	long3c	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1288,0.9576		1465 Secs *[==>]*	 ***[2]***
5	long4c	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297, 0.8874		1465 Secs *[==>]*	 ***[2]***


Orbit Structure
Orbit 1
Server Version: 20100218
GS Acq
Exp. 1
Pointing Maneuver
Overhead
Exp. 2
Pointing Maneuver
Overhead
Exp. 3
Occultation
*** VISIBILITY OVERRUN = 2
Pointing Maneuver
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.
Orbit 2
Server Version: 20100218
GS Reacq
Exp. 4
Overhead
Pointing Maneuver
Exp. 5
Occultation
*** VISIBILITY OVERRUN = 31
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 13, scheduling Wed Mar 17 01:07:11 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SAME ORIENT AS 11

Comments: F814W (I; orbit 1) and F555W (V; orbit 2).
7 exposures per orbit.
2 short exposures at (+0.75,-20) and (-0.75,+20), with exposure times of 1 sec and 10 sec, respectively.
4 medium exposures (348 sec each) in a 4-point dither pattern to resample the PSF, but with the first two offset by (0,-40) and the second two offset by (0,0).
1 long exposure (740 sec in orbit 1, 880 sec in orbit 2) offset by (0,+40).

Diagnostics

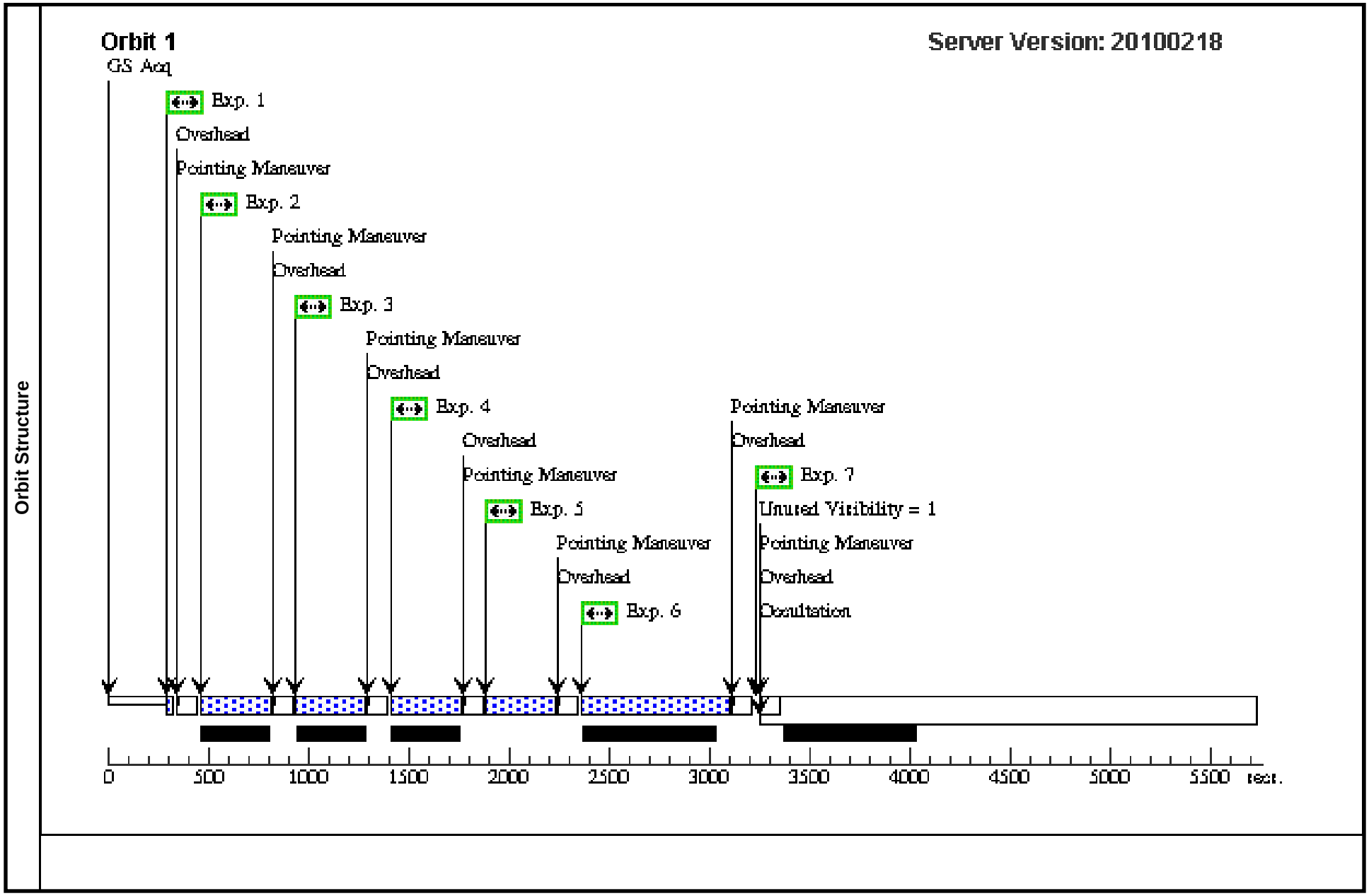
(Visit 13) Warning (Orbit Planner): VISIBILITY OVERRUN

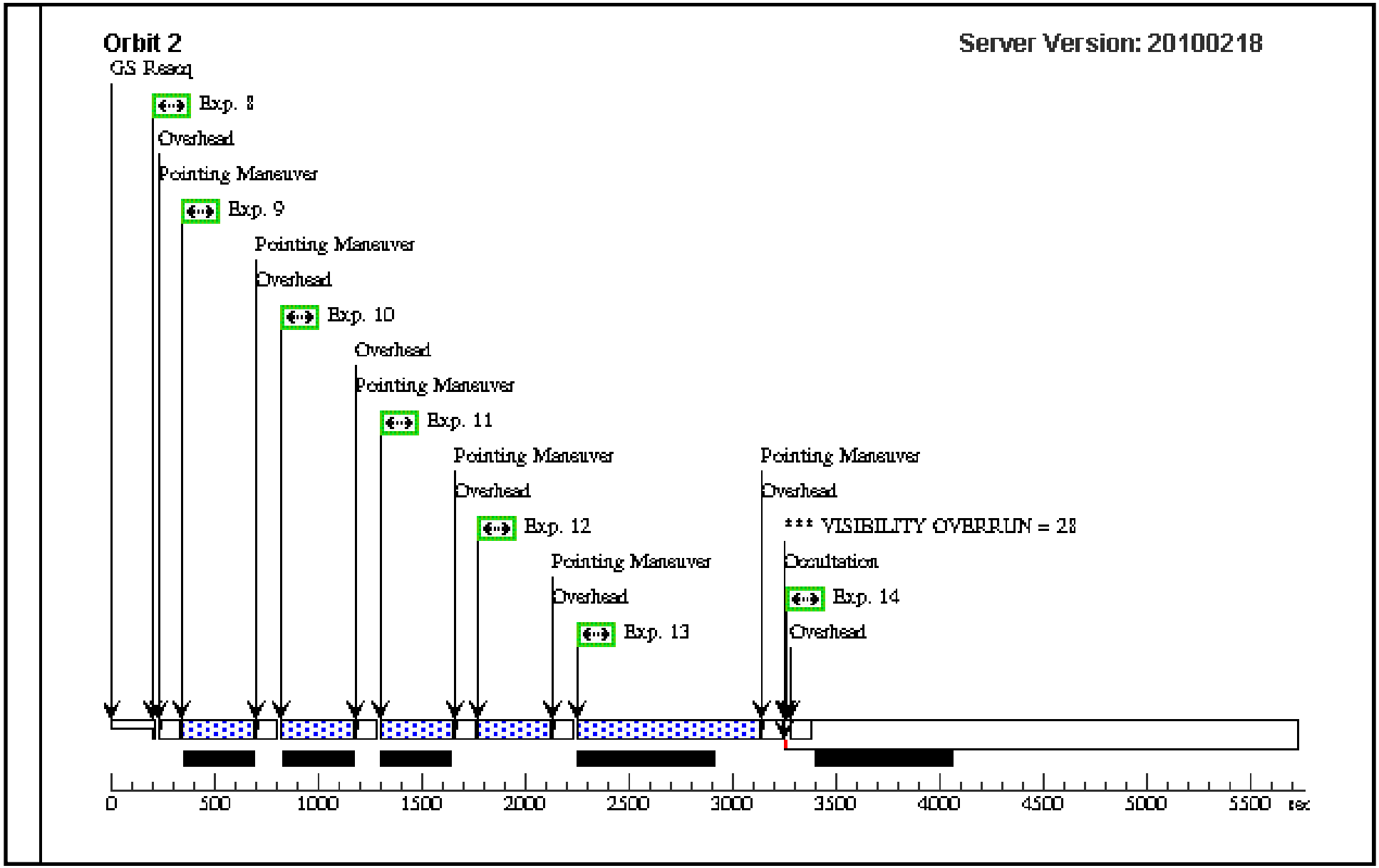
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	BULGE-STANEK	RA: 17 54 41.7100 (268.6737917d) Dec: -29 49 30.00 (-29.82500d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	short1i	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0297,-0.7886		1 Secs	
								[==>]	***[1]***
2	medium1i	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0000,-1.5812		348 Secs	
								[==>]	***[1]***
3	medium2i	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.1585,-1.5110		348 Secs	
								[==>]	***[1]***
4	medium3i	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0991,0.1649		348 Secs	
								[==>]	***[1]***
5	medium4i	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG -0.0594,0.0947		348 Secs	
								[==>]	***[1]***
6	long1i	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0000,1.5812		740 Secs	
								[==>]	***[1]***
7	short2i	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG -0.0297,0.7886		10 Secs	
								[==>]	***[1]***
8	short1v	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0297,-0.7886		1 Secs	
								[==>]	***[2]***
9	medium1v	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0000,-1.5812		348 Secs	
								[==>]	***[2]***
10	medium2v	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.1585,-1.5110		348 Secs	
								[==>]	***[2]***
11	medium3v	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0991,0.1649		348 Secs	
								[==>]	***[2]***
12	medium4v	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG -0.0594,0.0947		348 Secs	
								[==>]	***[2]***
13	long1v	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0000,1.5812		880 Secs	
								[==>]	***[2]***
14	short2v	(2) BULGE-STANEK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG -0.0297,0.7886		10 Secs	
								[==>]	***[2]***


Orbit Structure
Orbit 1
Server Version: 20100218
GS Acq
Exp. 1
Overhead
Pointing Maneuver
Exp. 2
Pointing Maneuver
Overhead
Exp. 3
Pointing Maneuver
Overhead
Exp. 4
Overhead
Pointing Maneuver
Exp. 5
Pointing Maneuver
Overhead
Exp. 6
Pointing Maneuver
Overhead
Exp. 7
Unused Visibility = 1
Pointing Maneuver
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 2
Server Version: 20100218
GS Reacq
Exp. 8
Overhead
Pointing Maneuver
Exp. 9
Pointing Maneuver
Overhead
Exp. 10
Overhead
Pointing Maneuver
Exp. 11
Pointing Maneuver
Overhead
Exp. 12
Pointing Maneuver
Overhead
Exp. 13
Pointing Maneuver
Overhead
*** VISIBILITY OVERRUN = 28
Occultation
Exp. 14
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 14, scheduling Wed Mar 17 01:07:12 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: SAME ORIENT AS 11

Comments: F110W (J) and F160W (H).
Two full-frame tiles and two 512x512 subarray tiles to mosaic the UVIS.
Each IR tile is dithered 2x2 for PSF resampling, so 16 images per filter in this visit.
A full-frame tile is paired to its nearest subarray tile in each orbit to avoid multiple GS-ACQs within a given orbit, but note that the 2nd orbit has a GS-ACQ instead of a GS-REACQ because of the distance between the right-hand and left-hand pairs of IR tiles.
STEP sample sequences are used in both subarray and full-frame tiles because this increases dynamic range.*
The large distances between the centers of the IR tiles causes an APT warning, but this is not a problem.
The dither sequence hits every position twice (once per filter), and does so in consecutive exposures to reduce pointing maneuver overheads.
Filter switching is done H1-J1-J2-H2-H3-J3-J4-H4 in each tile to minimize filter wheel motions.

Diagnostics

(Visit 14) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 14) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 14) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
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(Visit 14) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	BULGE-STANEK	RA: 17 54 41.7100 (268.6737917d) Dec: -29 49 30.00 (-29.82500d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

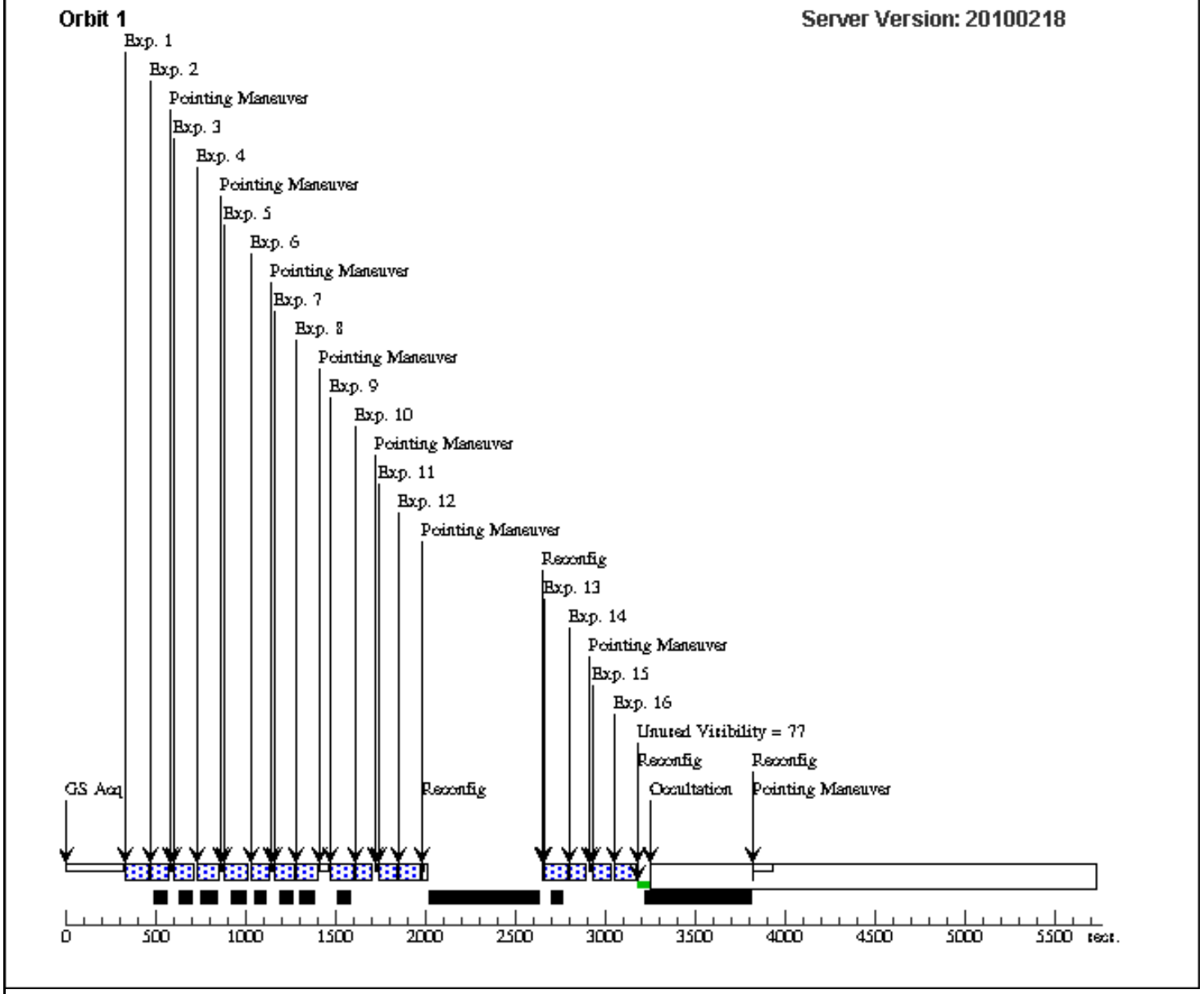
Exposures

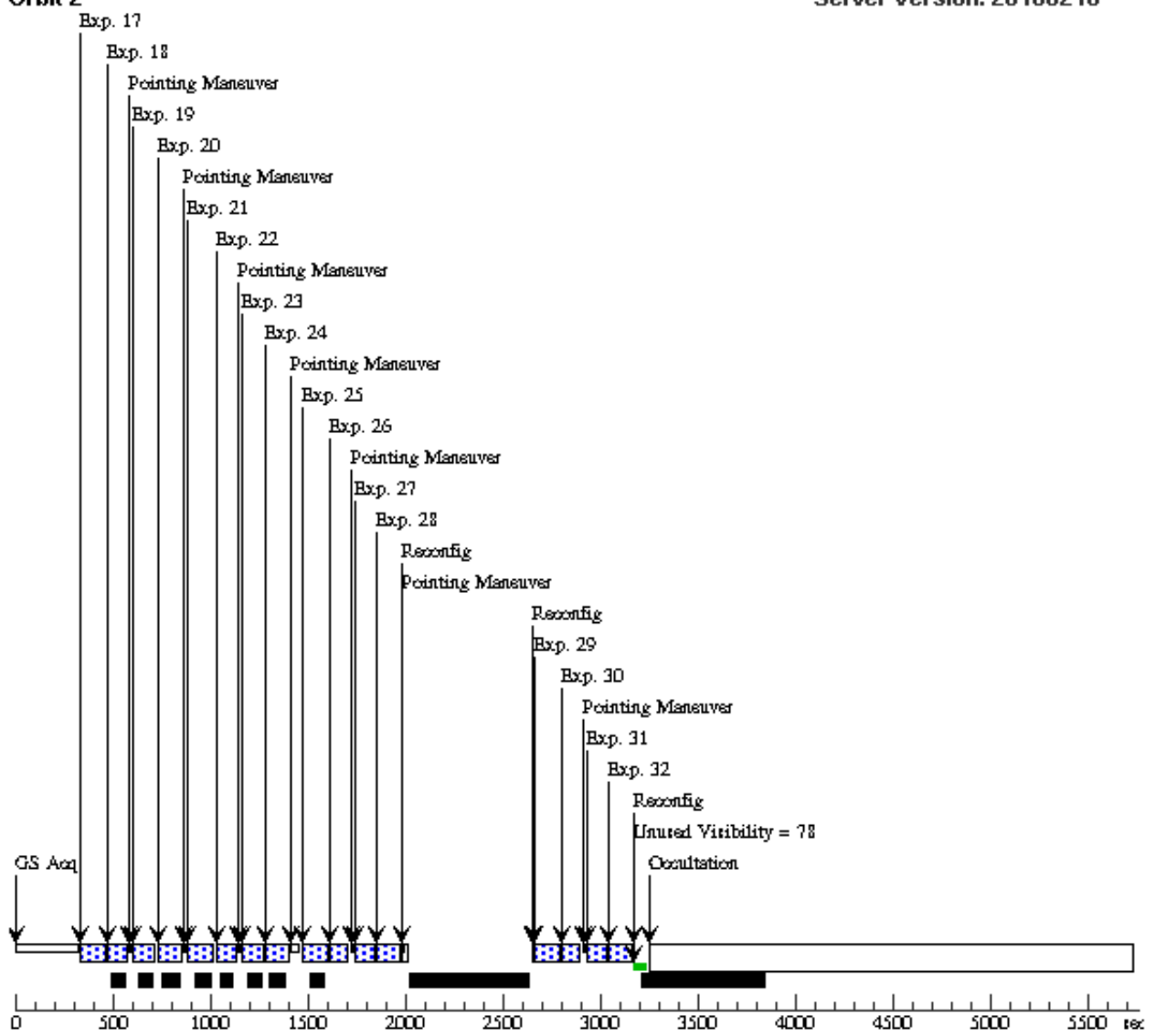
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	subLR1h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 52.70,-60.90		*[==>]*	***[1]***
2	subLR1j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 52.70,-60.90		*[==>]*	***[1]***
3	subLR2j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 53.242,-60.7184		*[==>]*	***[1]***
4	subLR2h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 53.2420, -60.7184		*[==>]*	***[1]***
5	subLR3h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 53.0387, -60.4156		*[==>]*	***[1]***
6	subLR3j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 53.0387, -60.4156		*[==>]*	***[1]***
7	subLR4j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 52.4967, -60.5973		*[==>]*	***[1]***
8	subLR4h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 52.4967, -60.5973		*[==>]*	***[1]***
9	fullUR1h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 17.9,29.1		*[==>]*	***[1]***
10	fullUR1j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 17.9,29.1		*[==>]*	***[1]***
11	fullUR2j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 18.4420, 29.2817		*[==>]*	***[1]***
12	fullUR2h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 18.4420, 29.2817		*[==>]*	***[1]***
13	fullUR3h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 18.2388, 29.5844		*[==>]*	***[1]***
14	fullUR3j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 18.2388, 29.5844		*[==>]*	***[1]***

	15	fullUR4j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 17.6967, 29.4028	*[==>]*	***[1]***
	16	fullUR4h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 17.6967, 29.4028	*[==>]*	***[1]***
	17	subUL1h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -51.5,58.6	*[==>]*	***[2]***
	18	subUL1j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -51.5,58.6	*[==>]*	***[2]***
	19	subUL2j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -50.958, 58.7816	*[==>]*	***[2]***
	20	subUL2h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -50.958, 58.7816	*[==>]*	***[2]***
	21	subUL3h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -51.161 3,59.0844	*[==>]*	***[2]***
	22	subUL3j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -51.161 3,59.0844	*[==>]*	***[2]***
	23	subUL4j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -51.703 3,58.9027	*[==>]*	***[2]***
	24	subUL4h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -51.703 3,58.9027	*[==>]*	***[2]***
	25	fullLL1h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.40,-29.80	*[==>]*	***[2]***
	26	fullLL1j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.40,-29.80	*[==>]*	***[2]***
	27	fullLL2j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -17.858, -29.6183	*[==>]*	***[2]***
	28	fullLL2h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -17.858, -29.6183	*[==>]*	***[2]***

	29	fullLL3h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.0612,-29.3156	*[==>]*	***[2]***
	30	fullLL3j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.0612,-29.3156	*[==>]*	***[2]***
	31	fullLL4j	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.6033,-29.4972	*[==>]*	***[2]***
	32	fullLL4h	(2) BULGE-STANEK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.6033,-29.4972	*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20100218
Exp. 17
Exp. 18
Pointing Maneuver
Exp. 19
Exp. 20
Pointing Maneuver
Exp. 21
Exp. 22
Pointing Maneuver
Exp. 23
Exp. 24
Pointing Maneuver
Exp. 25
Exp. 26
Pointing Maneuver
Exp. 27
Exp. 28
Reconfig
Pointing Maneuver
Reconfig
Exp. 29
Exp. 30
Pointing Maneuver
Exp. 31
Exp. 32
Reconfig
Unused Visibility = 78
Occultation
GS Acq
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 21, completed Wed Mar 17 01:07:17 GMT 2010

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

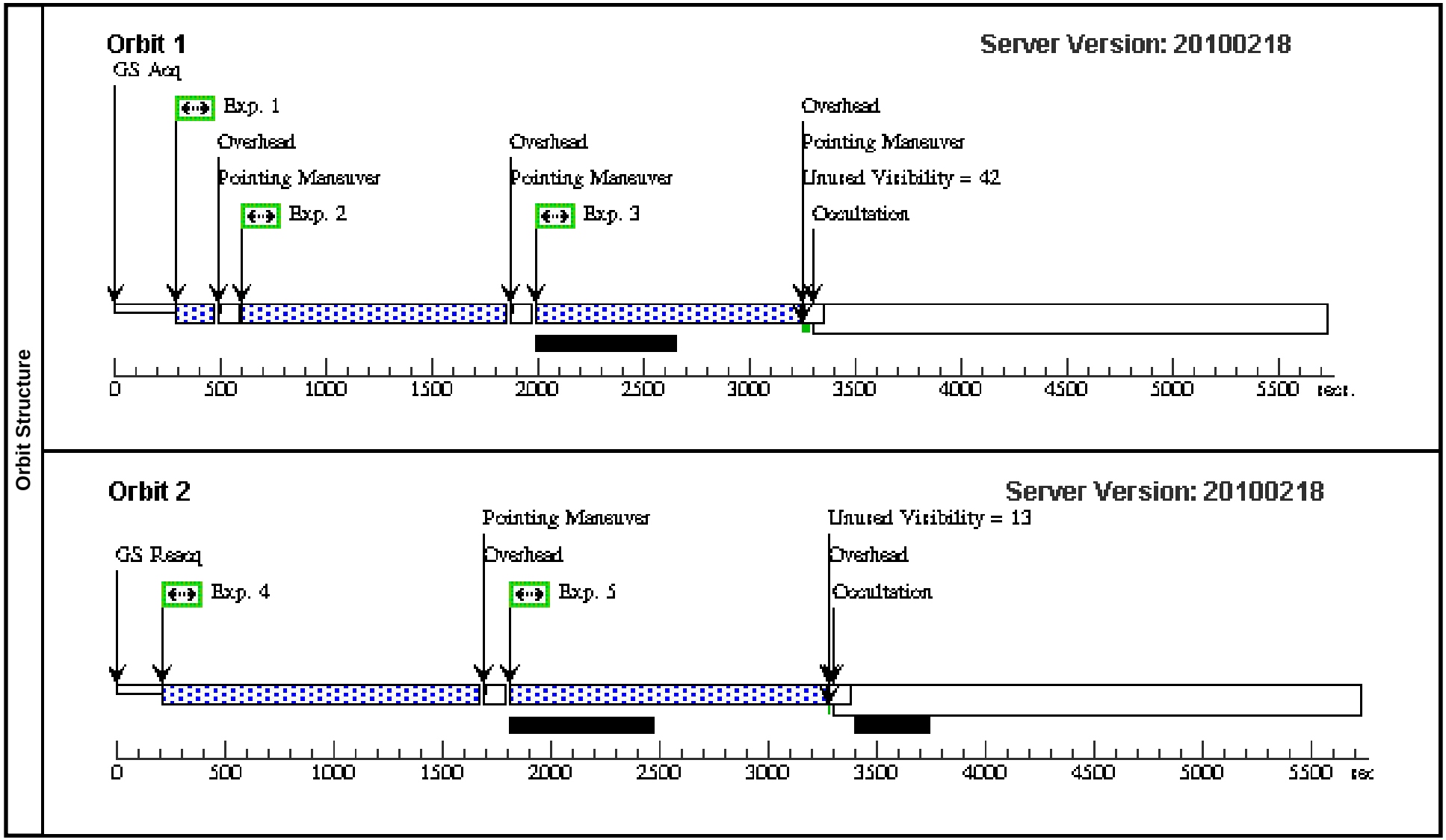
Comments: F390W (C) visit
1 short exposure offset by (+0.75,-20) pixels
4 long exposures in a 4-point dither pattern to resample the PSF, but offset by (0,-20) pixels.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	BULGE-OGLE29	RA: 17 48 15.3000 (267.0637500d) Dec: -37 09 1.40 (-37.15039d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	short1c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.0297,-0.7886		150 Secs *[==>]*	 ***[1]***
2	long1c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297,-0.7926		1255 Secs *[==>]*	 ***[1]***
3	long2c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1288,-0.7225		1255 Secs *[==>]*	 ***[1]***
4	long3c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.0693,-0.6277		1465 Secs *[==>]*	 ***[2]***
5	long4c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0891,-0.6979		1465 Secs *[==>]*	 ***[2]***


Orbit Structure
Orbit 1
Server Version: 20100218
GS Acq
Exp. 1
Overhead
Pointing Maneuver
Exp. 2
Overhead
Pointing Maneuver
Exp. 3
Overhead
Pointing Maneuver
Unused Visibility = 42
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.
Orbit 2
Server Version: 20100218
Pointing Maneuver
Unused Visibility = 13
GS Reacq
Overhead
Exp. 4
Exp. 5
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 22, failed Wed Mar 17 01:07:17 GMT 2010

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SAME ORIENT AS 21

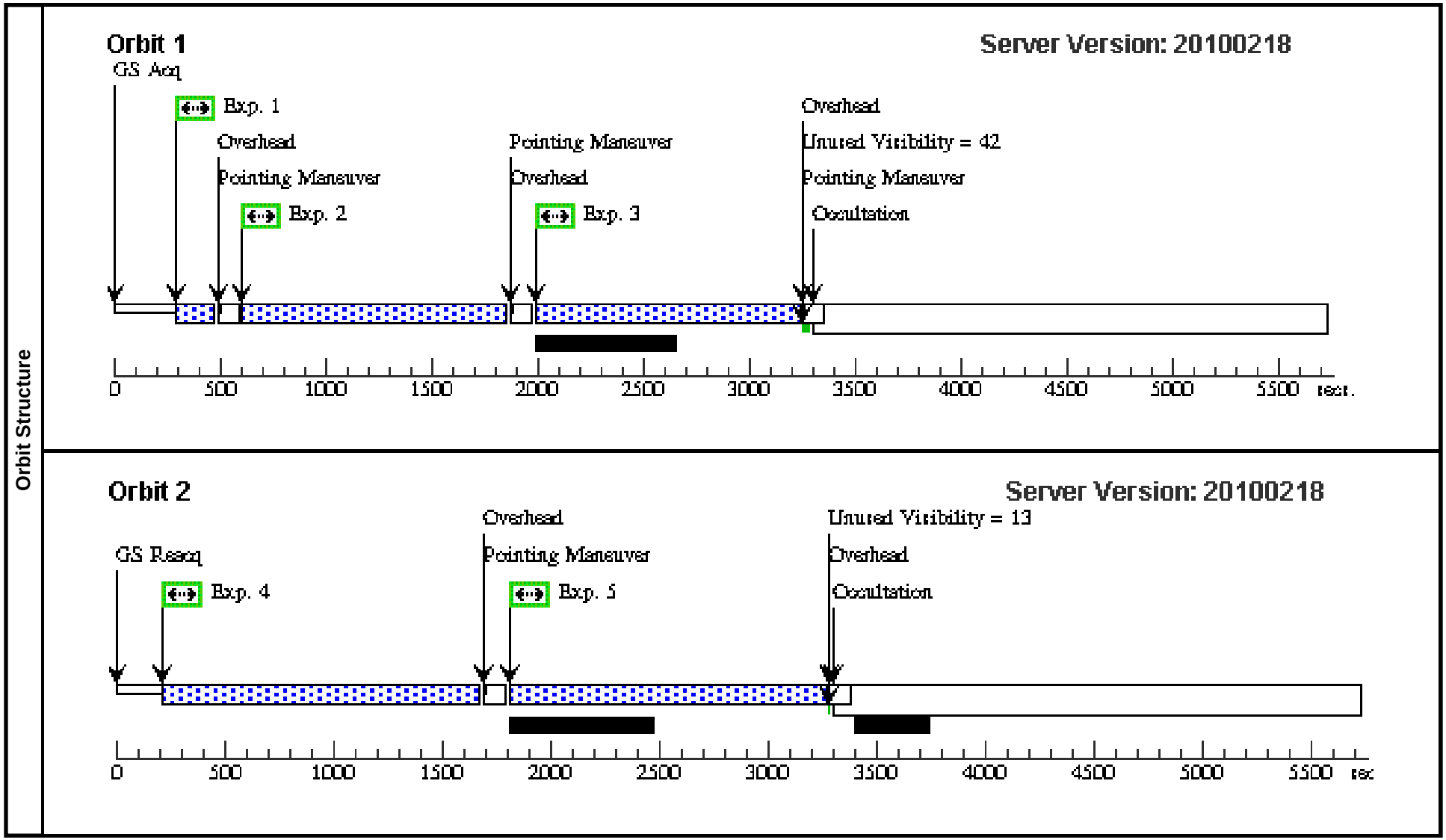
Comments: F390W (C) visit
1 short exposure offset by (-0.75,+20) pixels
4 long exposures in a 4-point dither pattern to resample the PSF, but offset by (0,+20) pixels.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	BULGE-OGLE29	RA: 17 48 15.3000 (267.0637500d) Dec: -37 09 1.40 (-37.15039d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	short1c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297, 0.7886		150 Secs *[==>]*	 ***[1]***
2	long1c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.0297,0.7926		1255 Secs *[==>]*	 ***[1]***
3	long2c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1882,0.8628		1255 Secs *[==>]*	 ***[1]***
4	long3c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1288,0.9576		1465 Secs *[==>]*	 ***[2]***
5	long4c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297, 0.8874		1465 Secs *[==>]*	 ***[2]***


Orbit Structure
Orbit 1
Server Version: 20100218
GS Acq
Exp. 1
Overhead
Pointing Maneuver
Exp. 2
Pointing Maneuver
Overhead
Exp. 3
Overhead
Unused Visibility = 42
Pointing Maneuver
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.
Orbit 2
Server Version: 20100218
GS Reacq
Exp. 4
Overhead
Pointing Maneuver
Exp. 5
Unused Visibility = 13
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 27 Wed Mar 17 01:07:17 GMT 2010

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SAME ORIENT AS 21; BEFORE 01-JAN-2011:00:00:00

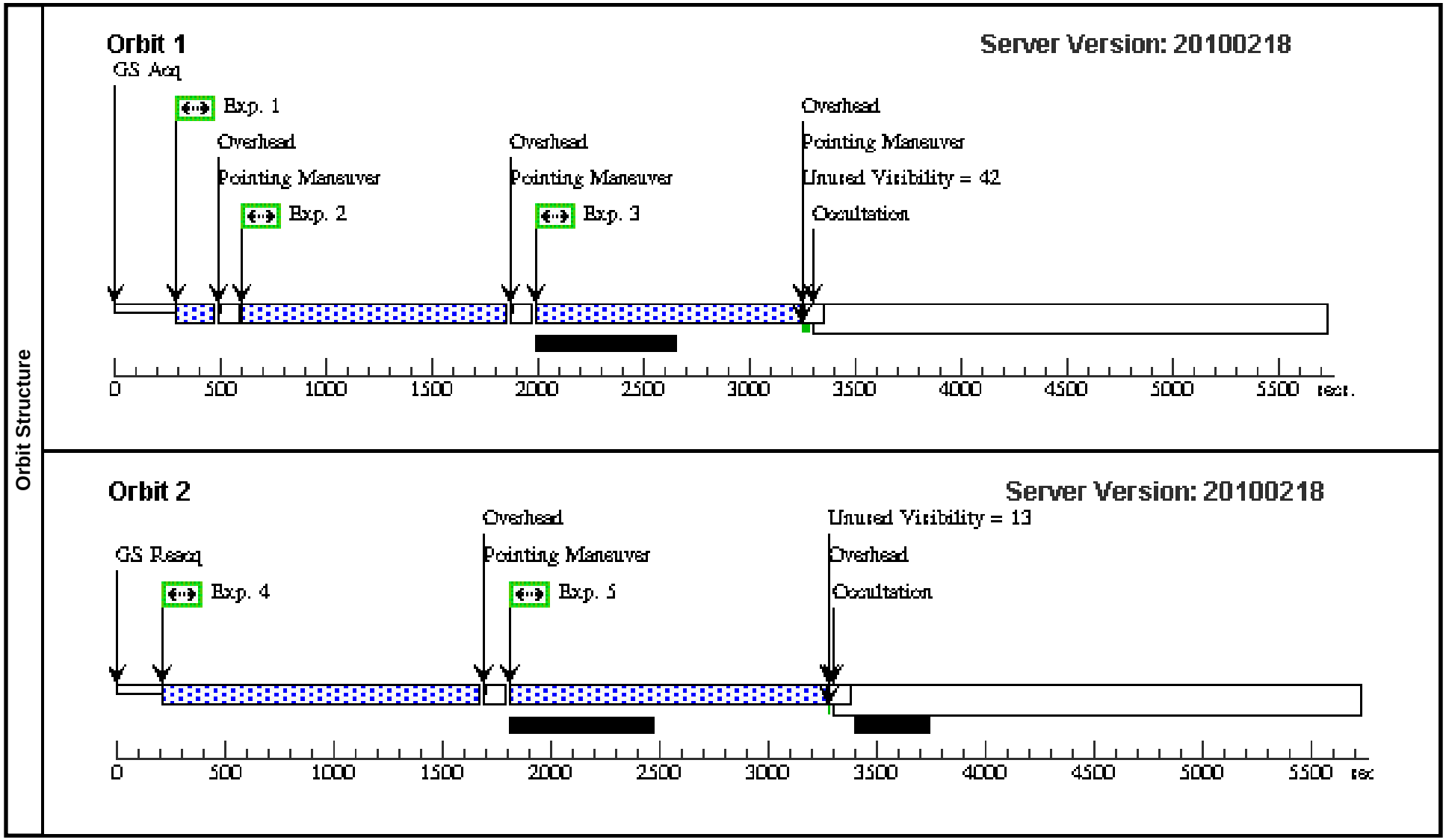
Comments: F390W (C) visit
1 short exposure offset by (-0.75,+20) pixels
4 long exposures in a 4-point dither pattern to resample the PSF, but offset by (0,+20) pixels.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	BULGE-OGLE29	RA: 17 48 15.3000 (267.0637500d) Dec: -37 09 1.40 (-37.15039d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	short1c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297, 0.7886		150 Secs *[==>]*	 ***[1]***
2	long1c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.0297,0.7926		1255 Secs *[==>]*	 ***[1]***
3	long2c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1882,0.8628		1255 Secs *[==>]*	 ***[1]***
4	long3c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1288,0.9576		1465 Secs *[==>]*	 ***[2]***
5	long4c	(3) BULGE-OGLE29	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297, 0.8874		1465 Secs *[==>]*	 ***[2]***


Orbit Structure
Orbit 1
Server Version: 20100218
GS Acq
Exp. 1
Overhead
Pointing Maneuver
Exp. 2
Overhead
Pointing Maneuver
Exp. 3
Overhead
Pointing Maneuver
Unused Visibility = 42
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.
Orbit 2
Server Version: 20100218
GS Reacq
Exp. 4
Overhead
Pointing Maneuver
Exp. 5
Unused Visibility = 13
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 23, completed Wed Mar 17 01:07:17 GMT 2010

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SAME ORIENT AS 21

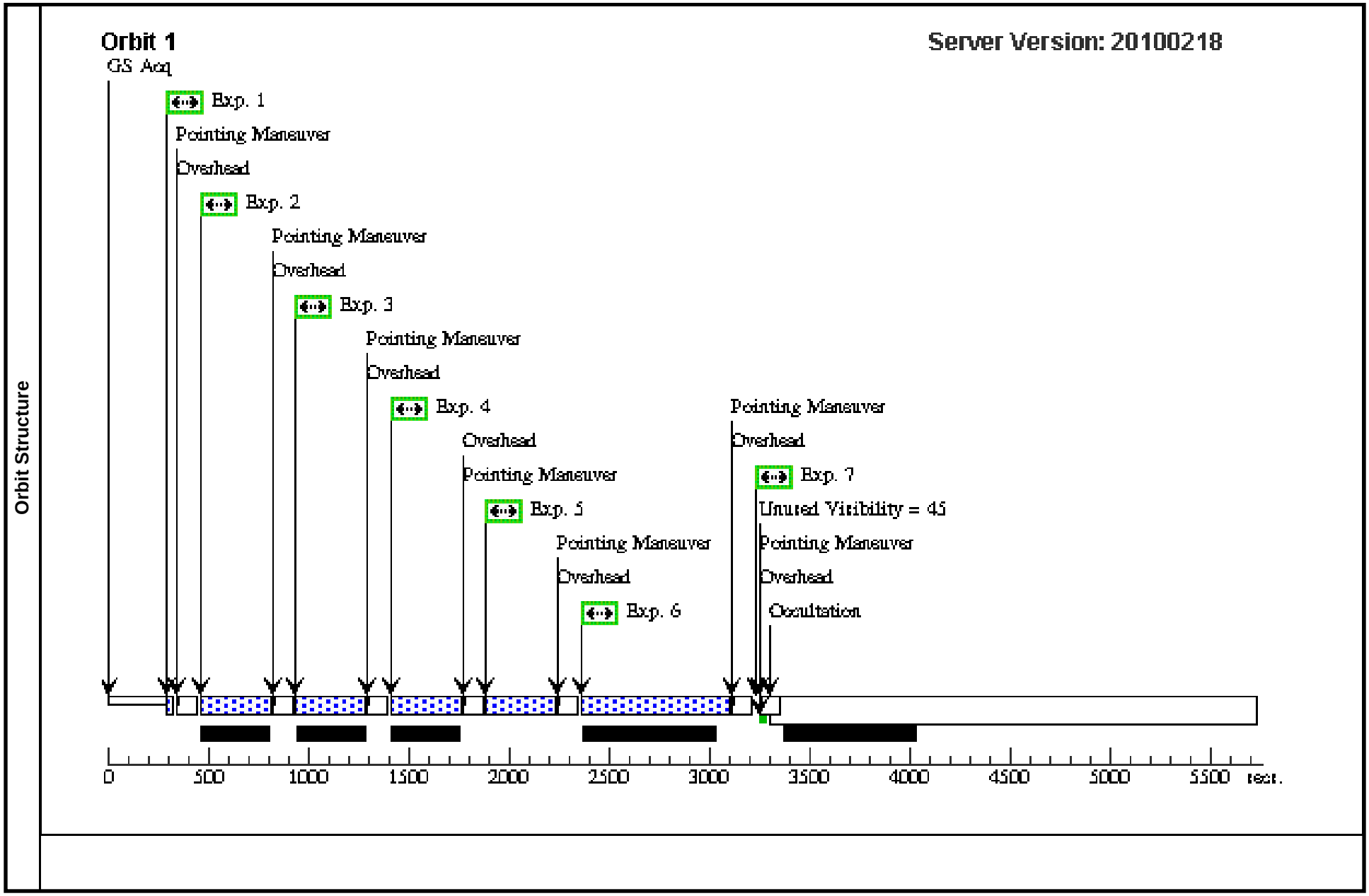
Comments: F814W (I; orbit 1) and F555W (V; orbit 2).
7 exposures per orbit.
2 short exposures at (+0.75,-20) and (-0.75,+20), with exposure times of 1 sec and 10 sec, respectively.
4 medium exposures (348 sec each) in a 4-point dither pattern to resample the PSF, but with the first two offset by (0,-40) and the second two offset by (0,0).
1 long exposure (740 sec in orbit 1, 880 sec in orbit 2) offset by (0,+40).

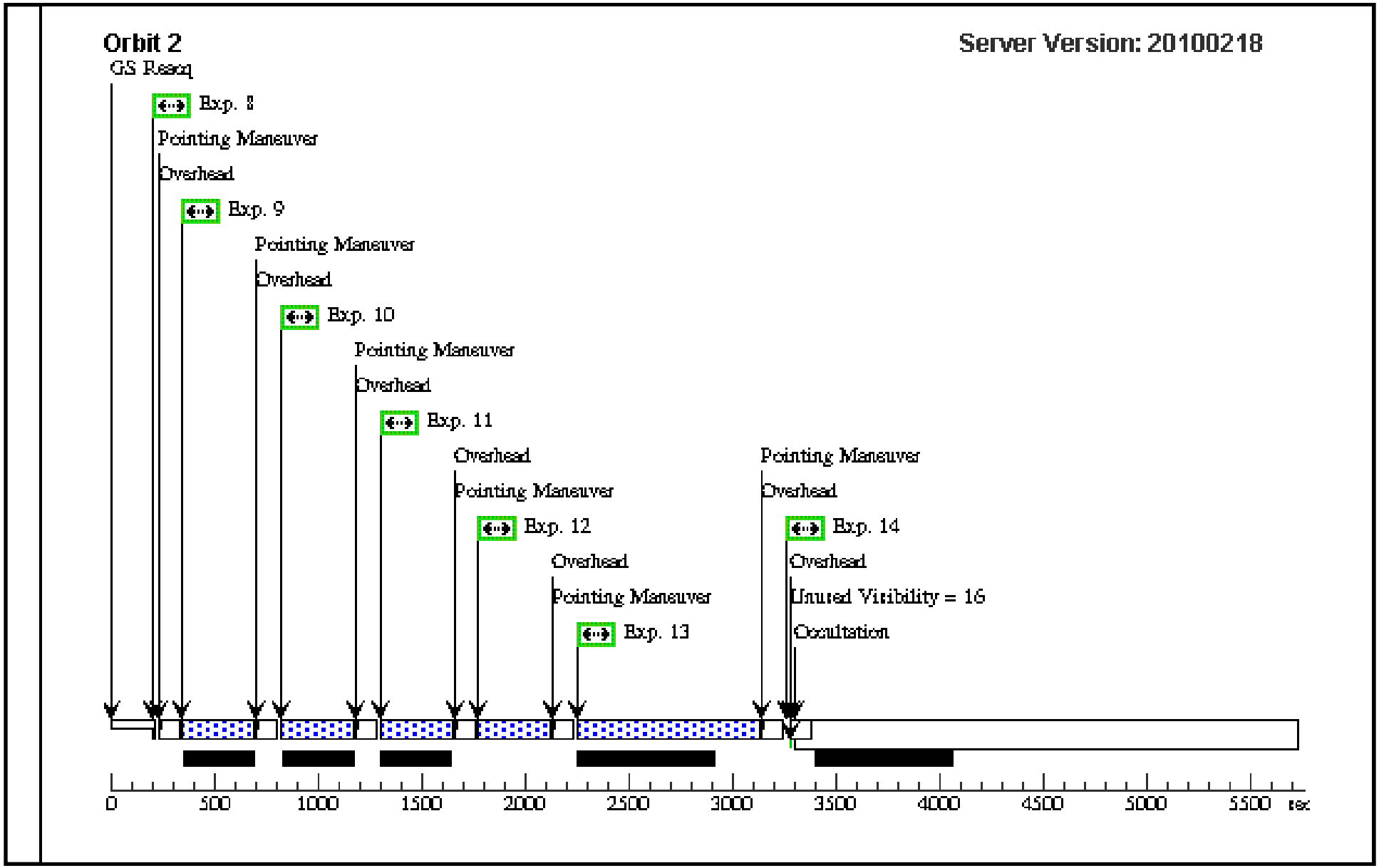
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	BULGE-OGLE29	RA: 17 48 15.3000 (267.0637500d) Dec: -37 09 1.40 (-37.15039d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	short1i	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0297,-0.7886		1 Secs	
								[==>]	***[1]***
2	medium1i	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0000,-1.5812		348 Secs	
								[==>]	***[1]***
3	medium2i	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.1585,-1.5110		348 Secs	
								[==>]	***[1]***
4	medium3i	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0991,0.1649		348 Secs	
								[==>]	***[1]***
5	medium4i	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG -0.0594,0.0947		348 Secs	
								[==>]	***[1]***
6	long1i	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0000,1.5812		740 Secs	
								[==>]	***[1]***
7	short2i	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG -0.0297,0.7886		10 Secs	
								[==>]	***[1]***
8	short1v	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0297,-0.7886		1 Secs	
								[==>]	***[2]***
9	medium1v	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0000,-1.5812		348 Secs	
								[==>]	***[2]***
10	medium2v	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.1585,-1.5110		348 Secs	
								[==>]	***[2]***
11	medium3v	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0991,0.1649		348 Secs	
								[==>]	***[2]***
12	medium4v	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG -0.0594,0.0947		348 Secs	
								[==>]	***[2]***
13	long1v	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0000,1.5812		880 Secs	
								[==>]	***[2]***
14	short2v	(3) BULGE-OGLE2 9	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG -0.0297,0.7886		10 Secs	
								[==>]	***[2]***


Orbit Structure
Orbit 1
Server Version: 20100218
GS Acq
Exp. 1
Pointing Maneuver
Overhead
Exp. 2
Pointing Maneuver
Overhead
Exp. 3
Pointing Maneuver
Overhead
Exp. 4
Overhead
Pointing Maneuver
Exp. 5
Pointing Maneuver
Overhead
Exp. 6
Pointing Maneuver
Overhead
Exp. 7
Unused Visibility = 45
Pointing Maneuver
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 2
Server Version: 20100218
GS Reacq
Exp. 8
Pointing Maneuver
Overhead
Exp. 9
Pointing Maneuver
Overhead
Exp. 10
Pointing Maneuver
Overhead
Exp. 11
Overhead
Pointing Maneuver
Exp. 12
Overhead
Pointing Maneuver
Exp. 13
Pointing Maneuver
Overhead
Exp. 14
Overhead
Unused Visibility = 16
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 24, failed

Wed Mar 17 01:07:18 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: SAME ORIENT AS 21

Comments: F110W (J) and F160W (H).
Two full-frame tiles and two 512x512 subarray tiles to mosaic the UVIS.
Each IR tile is dithered 2x2 for PSF resampling, so 16 images per filter in this visit.
A full-frame tile is paired to its nearest subarray tile in each orbit to avoid multiple GS-ACQs within a given orbit, but note that the 2nd orbit has a GS-ACQ instead of a GS-REACQ because of the distance between the right-hand and left-hand pairs of IR tiles.
STEP sample sequences are used in both subarray and full-frame tiles because this increases dynamic range.*
The large distances between the centers of the IR tiles causes an APT warning, but this is not a problem.
The dither sequence hits every position twice (once per filter), and does so in consecutive exposures to reduce pointing maneuver overheads.
Filter switching is done H1-J1-J2-H2-H3-J3-J4-H4 in each tile to minimize filter wheel motions.

Diagnostics

(Visit 24) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 24) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 24) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 24) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 24) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
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(Visit 24) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 24) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 24) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 24) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	BULGE-OGLE29	RA: 17 48 15.3000 (267.0637500d) Dec: -37 09 1.40 (-37.15039d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

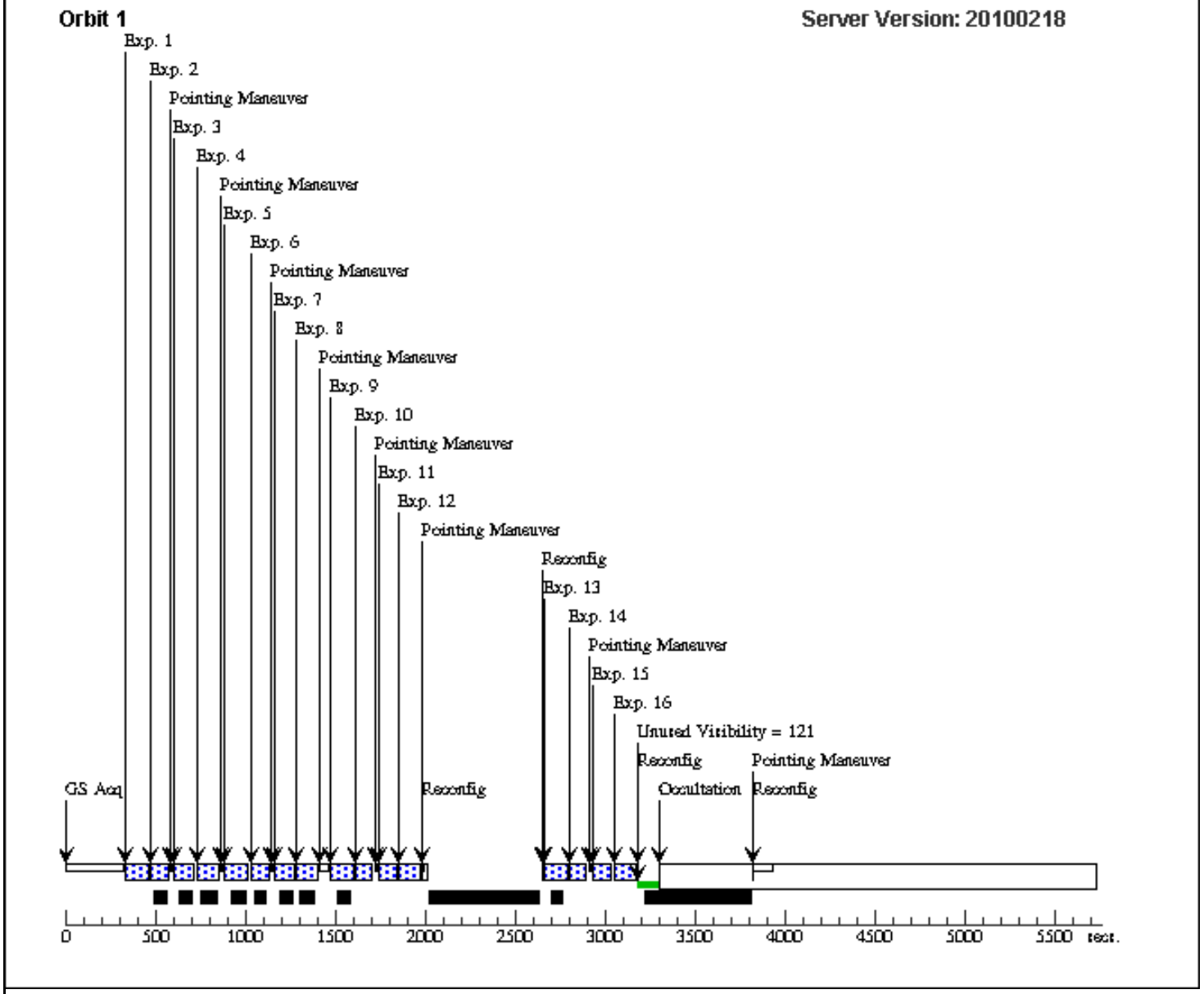
Exposures

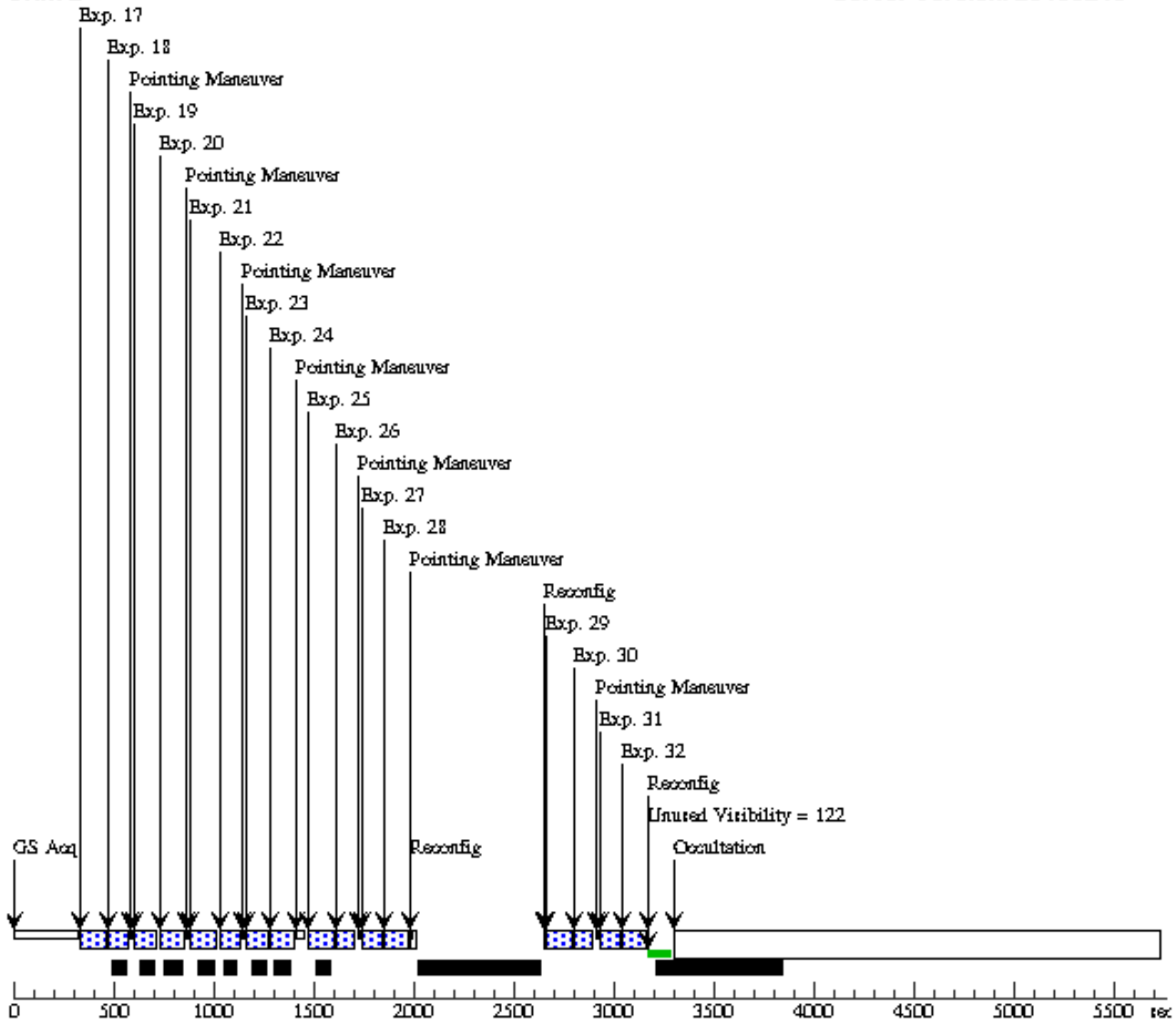
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	subLR1h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP2 5	POS TARG 52.70,-6 0.90		*[==>]*	***[1]***
2	subLR1j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP2 5	POS TARG 52.70,-6 0.90		*[==>]*	***[1]***
3	subLR2j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP2 5	POS TARG 53.242,- 60.7184		*[==>]*	***[1]***
4	subLR2h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP2 5	POS TARG 53.2420, -60.7184		*[==>]*	***[1]***
5	subLR3h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP2 5	POS TARG 53.0387, -60.4156		*[==>]*	***[1]***
6	subLR3j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP2 5	POS TARG 53.0387, -60.4156		*[==>]*	***[1]***
7	subLR4j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP2 5	POS TARG 52.4967, -60.5973		*[==>]*	***[1]***
8	subLR4h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP2 5	POS TARG 52.4967, -60.5973		*[==>]*	***[1]***
9	fullUR1h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=7	POS TARG 17.9,29. 1		*[==>]*	***[1]***
10	fullUR1j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP2 5; NSAMP=7	POS TARG 17.9,29. 1		*[==>]*	***[1]***
11	fullUR2j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP2 5; NSAMP=7	POS TARG 18.4420, 29.2817		*[==>]*	***[1]***
12	fullUR2h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=7	POS TARG 18.4420, 29.2817		*[==>]*	***[1]***
13	fullUR3h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=7	POS TARG 18.2388, 29.5844		*[==>]*	***[1]***
14	fullUR3j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP2 5; NSAMP=7	POS TARG 18.2388, 29.5844		*[==>]*	***[1]***

	15	fullUR4j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 17.6967, 29.4028	*[==>]*	***[1]***
	16	fullUR4h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 17.6967, 29.4028	*[==>]*	***[1]***
	17	subUL1h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -51.5,58.6	*[==>]*	***[2]***
	18	subUL1j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -51.5,58.6	*[==>]*	***[2]***
	19	subUL2j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -50.958, 58.7816	*[==>]*	***[2]***
	20	subUL2h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -50.958, 58.7816	*[==>]*	***[2]***
	21	subUL3h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -51.161 3,59.0844	*[==>]*	***[2]***
	22	subUL3j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -51.161 3,59.0844	*[==>]*	***[2]***
	23	subUL4j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -51.703 3,58.9027	*[==>]*	***[2]***
	24	subUL4h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -51.703 3,58.9027	*[==>]*	***[2]***
	25	fullLL1h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.40,-29.80	*[==>]*	***[2]***
	26	fullLL1j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.40,-29.80	*[==>]*	***[2]***
	27	fullLL2j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -17.858, -29.6183	*[==>]*	***[2]***
	28	fullLL2h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -17.858, -29.6183	*[==>]*	***[2]***

	29	fullLL3h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.0612,-29.3156	*[==>]*	***[2]***
	30	fullLL3j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.0612,-29.3156	*[==>]*	***[2]***
	31	fullLL4j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.6033,-29.4972	*[==>]*	***[2]***
	32	fullLL4h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.6033,-29.4972	*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20100218
Exp. 17
Exp. 18
Pointing Maneuver
Exp. 19
Exp. 20
Pointing Maneuver
Exp. 21
Exp. 22
Pointing Maneuver
Exp. 23
Exp. 24
Pointing Maneuver
Exp. 25
Exp. 26
Pointing Maneuver
Exp. 27
Exp. 28
Pointing Maneuver
Reconfig
Exp. 29
Exp. 30
Pointing Maneuver
Exp. 31
Exp. 32
Reconfig
Unused Visibility = 122
GS Acq
Reconfig
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 29 Wed Mar 17 01:07:22 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: SAME ORIENT AS 21; BEFORE 01-JAN-2011:00:00:00

Comments: F110W (J) and F160W (H).
Two full-frame tiles and two 512x512 subarray tiles to mosaic the UVIS.
Each IR tile is dithered 2x2 for PSF resampling, so 16 images per filter in this visit.
A full-frame tile is paired to its nearest subarray tile in each orbit to avoid multiple GS-ACQs within a given orbit, but note that the 2nd orbit has a GS-ACQ instead of a GS-REACQ because of the distance between the right-hand and left-hand pairs of IR tiles.
STEP sample sequences are used in both subarray and full-frame tiles because this increases dynamic range.*
The large distances between the centers of the IR tiles causes an APT warning, but this is not a problem.
The dither sequence hits every position twice (once per filter), and does so in consecutive exposures to reduce pointing maneuver overheads.
Filter switching is done H1-J1-J2-H2-H3-J3-J4-H4 in each tile to minimize filter wheel motions.

Diagnostics

(Visit 29) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 29) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 29) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 29) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
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(Visit 29) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 29) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 29) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 29) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	BULGE-OGLE29	RA: 17 48 15.3000 (267.0637500d) Dec: -37 09 1.40 (-37.15039d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

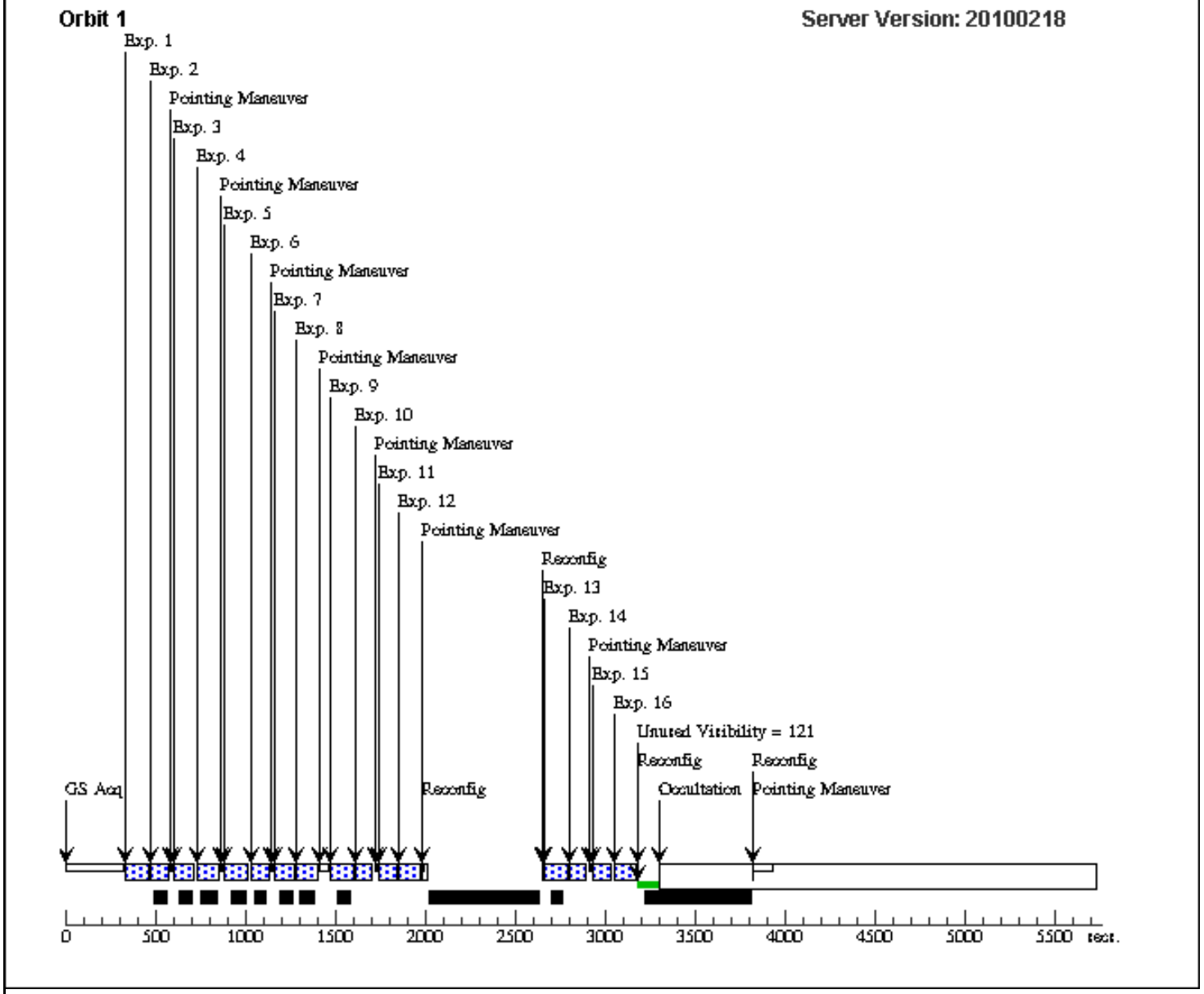
Exposures

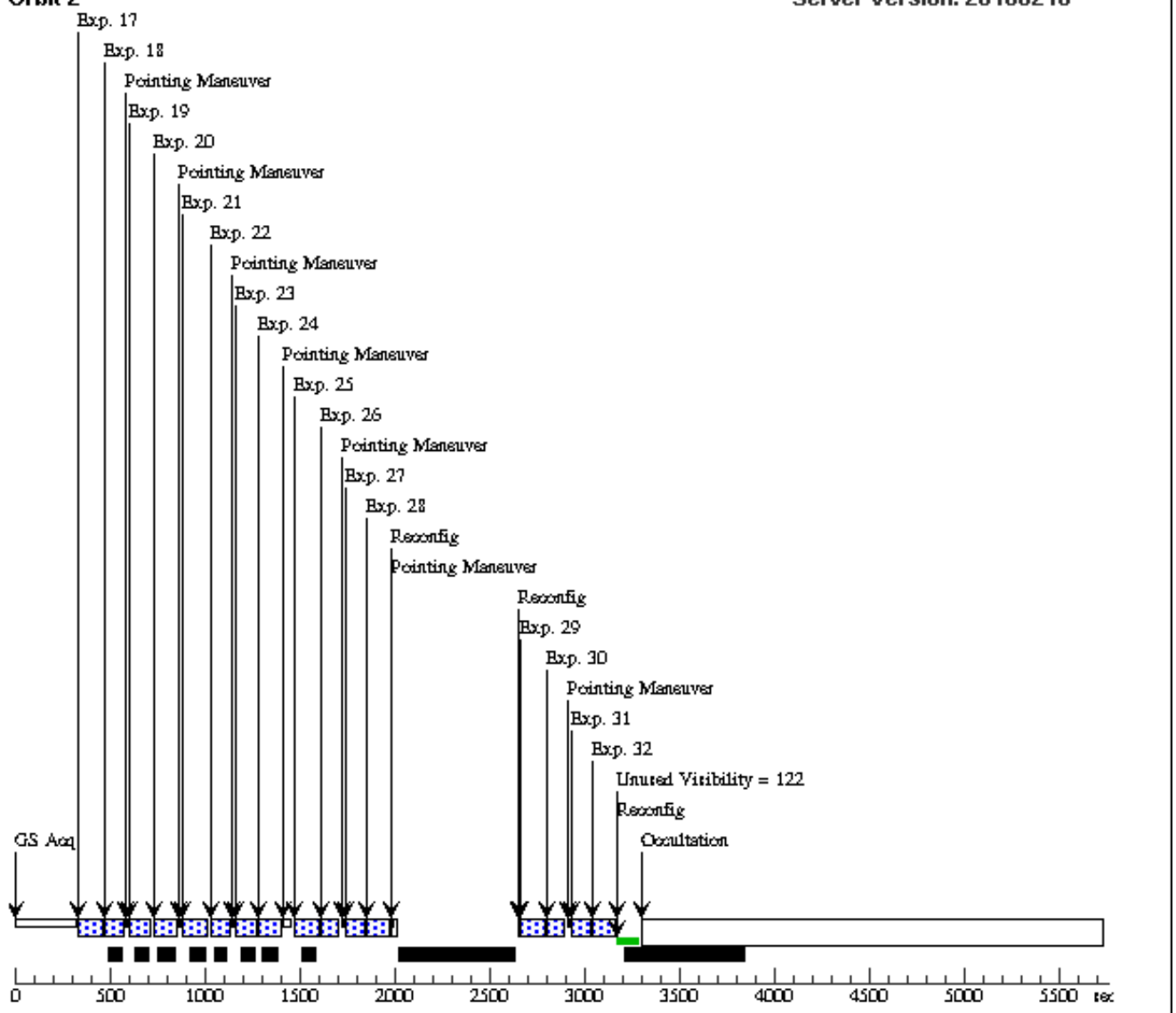
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	subLR1h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP2 5	POS TARG 52.70,-6 0.90		*[==>]*	***[1]***
2	subLR1j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP2 5	POS TARG 52.70,-6 0.90		*[==>]*	***[1]***
3	subLR2j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP2 5	POS TARG 53.242,- 60.7184		*[==>]*	***[1]***
4	subLR2h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP2 5	POS TARG 53.2420, -60.7184		*[==>]*	***[1]***
5	subLR3h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP2 5	POS TARG 53.0387, -60.4156		*[==>]*	***[1]***
6	subLR3j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP2 5	POS TARG 53.0387, -60.4156		*[==>]*	***[1]***
7	subLR4j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP2 5	POS TARG 52.4967, -60.5973		*[==>]*	***[1]***
8	subLR4h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP2 5	POS TARG 52.4967, -60.5973		*[==>]*	***[1]***
9	fullUR1h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=7	POS TARG 17.9,29. 1		*[==>]*	***[1]***
10	fullUR1j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP2 5; NSAMP=7	POS TARG 17.9,29. 1		*[==>]*	***[1]***
11	fullUR2j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP2 5; NSAMP=7	POS TARG 18.4420, 29.2817		*[==>]*	***[1]***
12	fullUR2h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=7	POS TARG 18.4420, 29.2817		*[==>]*	***[1]***
13	fullUR3h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=7	POS TARG 18.2388, 29.5844		*[==>]*	***[1]***
14	fullUR3j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP2 5; NSAMP=7	POS TARG 18.2388, 29.5844		*[==>]*	***[1]***

	15	fullUR4j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP2 5; NSAMP=7	POS TARG 17.6967, 29.4028	*[==>]*	***[1]***
	16	fullUR4h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=7	POS TARG 17.6967, 29.4028	*[==>]*	***[1]***
	17	subUL1h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP2 5	POS TARG -51.5,58 .6	*[==>]*	***[2]***
	18	subUL1j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP2 5	POS TARG -51.5,58 .6	*[==>]*	***[2]***
	19	subUL2j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP2 5	POS TARG -50.958, 58.7816	*[==>]*	***[2]***
	20	subUL2h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP2 5	POS TARG -50.958, 58.7816	*[==>]*	***[2]***
	21	subUL3h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP2 5	POS TARG -51.161 3,59.0844	*[==>]*	***[2]***
	22	subUL3j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP2 5	POS TARG -51.161 3,59.0844	*[==>]*	***[2]***
	23	subUL4j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP2 5	POS TARG -51.703 3,58.9027	*[==>]*	***[2]***
	24	subUL4h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP2 5	POS TARG -51.703 3,58.9027	*[==>]*	***[2]***
	25	fullLL1h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=7	POS TARG -18.40,-29.80	*[==>]*	***[2]***
	26	fullLL1j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP2 5; NSAMP=7	POS TARG -18.40,-29.80	*[==>]*	***[2]***
	27	fullLL2j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP2 5; NSAMP=7	POS TARG -17.858, -29.6183	*[==>]*	***[2]***
	28	fullLL2h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=7	POS TARG -17.858, -29.6183	*[==>]*	***[2]***

	29	fullLL3h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.0612,-29.3156	*[==>]*	***[2]***
	30	fullLL3j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.0612,-29.3156	*[==>]*	***[2]***
	31	fullLL4j	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.6033,-29.4972	*[==>]*	***[2]***
	32	fullLL4h	(3) BULGE-OGLE2 9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.6033,-29.4972	*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20100218
Exp. 17
Exp. 18
Pointing Maneuver
Exp. 19
Exp. 20
Pointing Maneuver
Exp. 21
Exp. 22
Pointing Maneuver
Exp. 23
Exp. 24
Pointing Maneuver
Exp. 25
Exp. 26
Pointing Maneuver
Exp. 27
Exp. 28
Reconfig
Pointing Maneuver
Reconfig
Exp. 29
Exp. 30
Pointing Maneuver
Exp. 31
Exp. 32
Unused Visibility = 122
Reconfig
Occultation
GS Acq
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 31, completed Wed Mar 17 01:07:26 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: (none)

Comments: F390W (C) visit
1 short exposure offset by (+0.75,-20) pixels
4 long exposures in a 4-point dither pattern to resample the PSF, but offset by (0,-20) pixels.

Diagnostics

(Visit 31) Warning (Orbit Planner): VISIBILITY OVERRUN

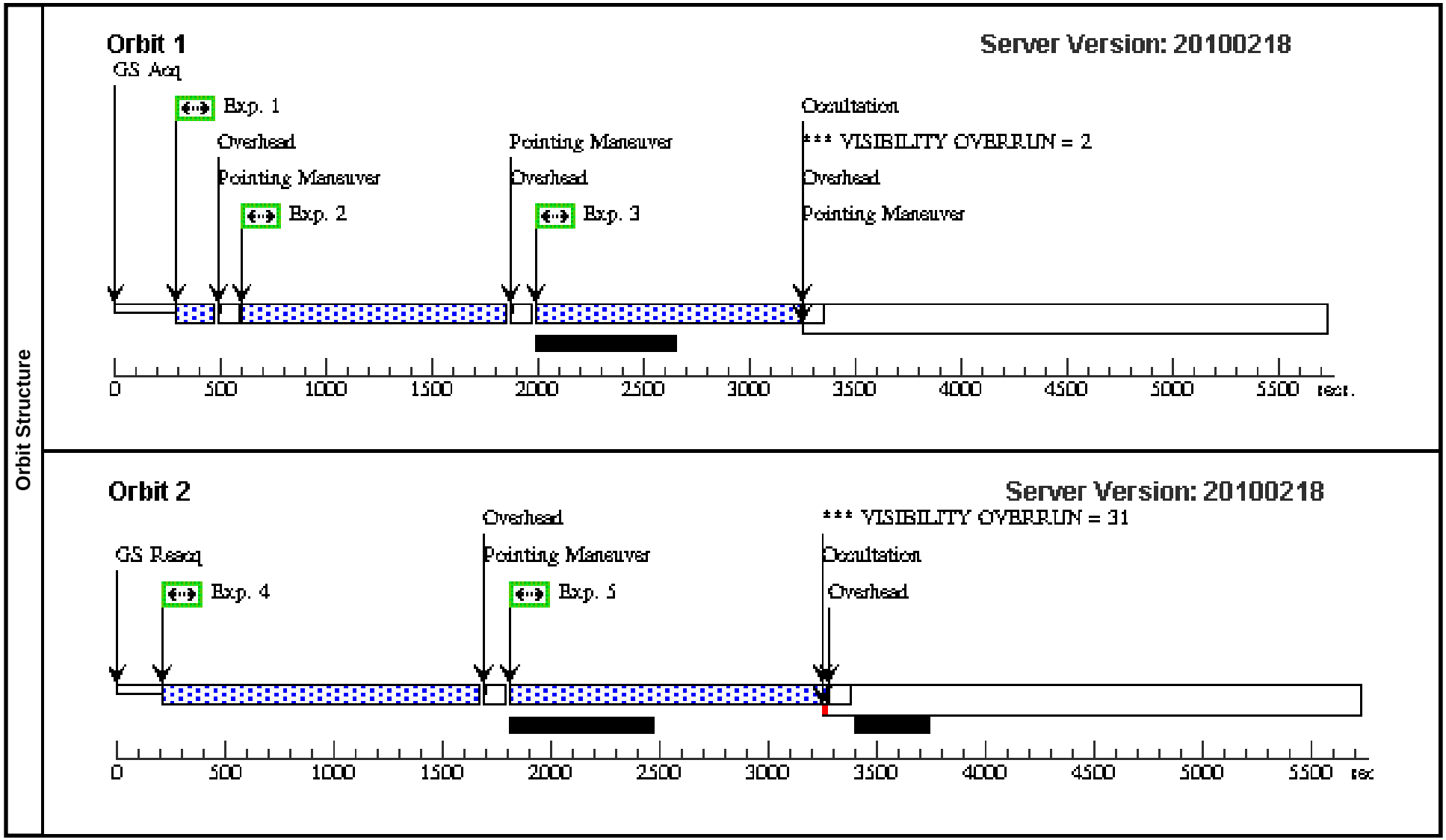
(Visit 31) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	BULGE-BAADE	RA: 18 03 10.2300 (270.7926250d) Dec: -29 56 33.60 (-29.94267d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	short1c	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.0297,-0.7886		150 Secs *[==>]*	 ***[1]***
2	long1c	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297, -0.7926		1255 Secs *[==>]*	 ***[1]***
3	long2c	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1288,-0.7225		1255 Secs *[==>]*	 ***[1]***
4	long3c	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.0693,-0.6277		1465 Secs *[==>]*	 ***[2]***
5	long4c	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0891, -0.6979		1465 Secs *[==>]*	 ***[2]***


Orbit Structure
Orbit 1
Server Version: 20100218
GS Acq
Exp. 1
Overhead
Pointing Maneuver
Exp. 2
Pointing Maneuver
Overhead
Exp. 3
Occultation
*** VISIBILITY OVERRUN = 2
Overhead
Pointing Maneuver
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.
Orbit 2
Server Version: 20100218
Overhead
Pointing Maneuver
Exp. 5
*** VISIBILITY OVERRUN = 31
GS Reacq
Exp. 4
Occultation
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 32, completed Wed Mar 17 01:07:27 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SAME ORIENT AS 31

Comments: F390W (C) visit
1 short exposure offset by (-0.75,+20) pixels
4 long exposures in a 4-point dither pattern to resample the PSF, but offset by (0,+20) pixels.

Diagnostics

(Visit 32) Warning (Orbit Planner): VISIBILITY OVERRUN

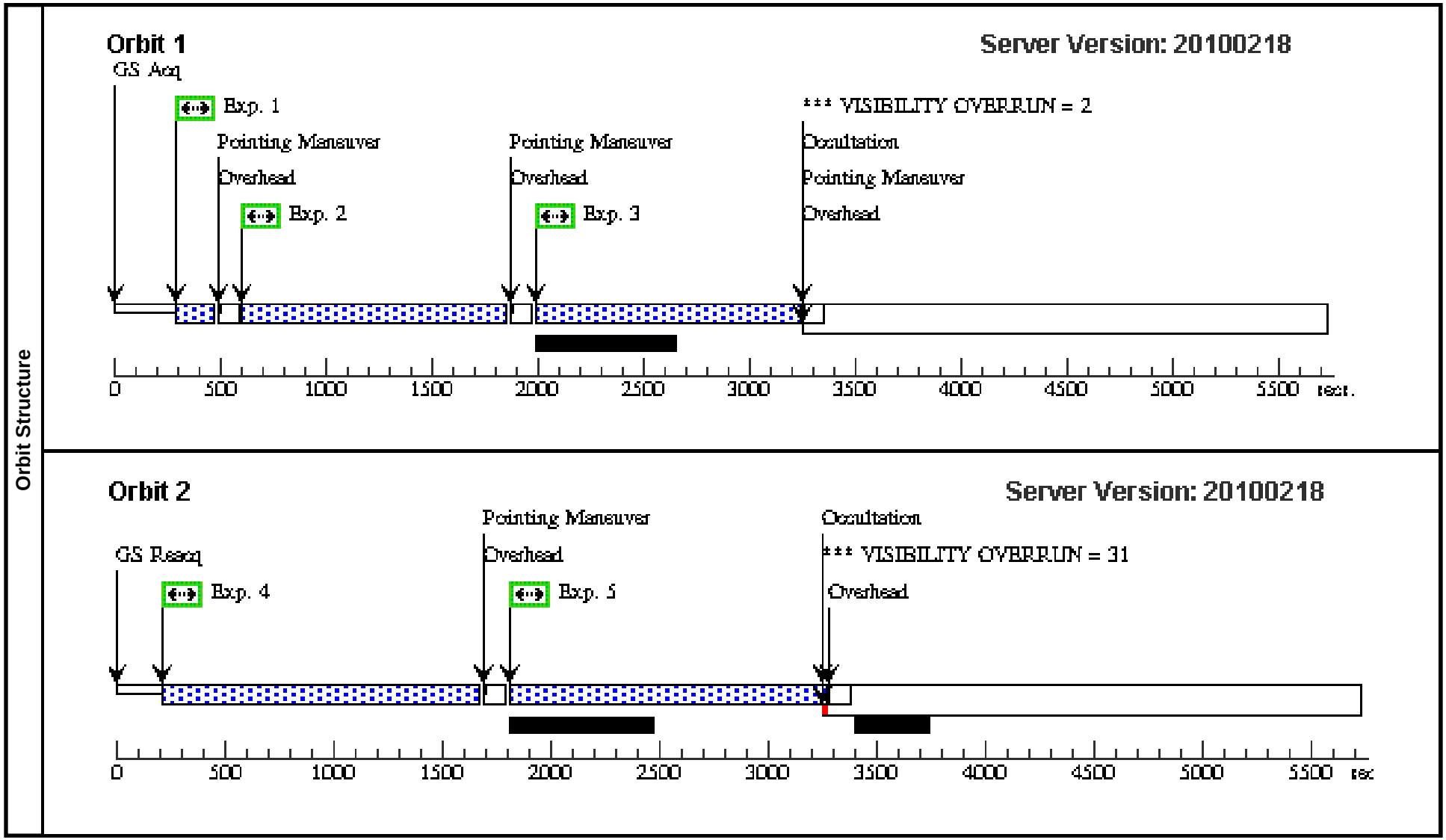
(Visit 32) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	BULGE-BAADE	RA: 18 03 10.2300 (270.7926250d) Dec: -29 56 33.60 (-29.94267d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	short1c	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297, 0.7886		150 Secs *[==>]*	 ***[1]***
2	long1c	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.0297,0 .7926		1255 Secs *[==>]*	 ***[1]***
3	long2c	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1882,0 .8628		1255 Secs *[==>]*	 ***[1]***
4	long3c	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.1288,0 .9576		1465 Secs *[==>]*	 ***[2]***
5	long4c	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG -0.0297, 0.8874		1465 Secs *[==>]*	 ***[2]***


Orbit Structure
Orbit 1
Server Version: 20100218
GS Acq
Exp. 1
Pointing Maneuver
Overhead
Exp. 2
Pointing Maneuver
Overhead
Exp. 3
*** VISIBILITY OVERRUN = 2
Occultation
Pointing Maneuver
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.
Orbit 2
Server Version: 20100218
GS Reacq
Exp. 4
Pointing Maneuver
Overhead
Exp. 5
Occultation
*** VISIBILITY OVERRUN = 31
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 33, completed Wed Mar 17 01:07:28 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SAME ORIENT AS 31

Comments: F814W (I; orbit 1) and F555W (V; orbit 2).
7 exposures per orbit.
2 short exposures at (+0.75,-20) and (-0.75,+20), with exposure times of 1 sec and 10 sec, respectively.
4 medium exposures (348 sec each) in a 4-point dither pattern to resample the PSF, but with the first two offset by (0,-40) and the second two offset by (0,0).
1 long exposure (740 sec in orbit 1, 880 sec in orbit 2) offset by (0,+40).

Diagnostics

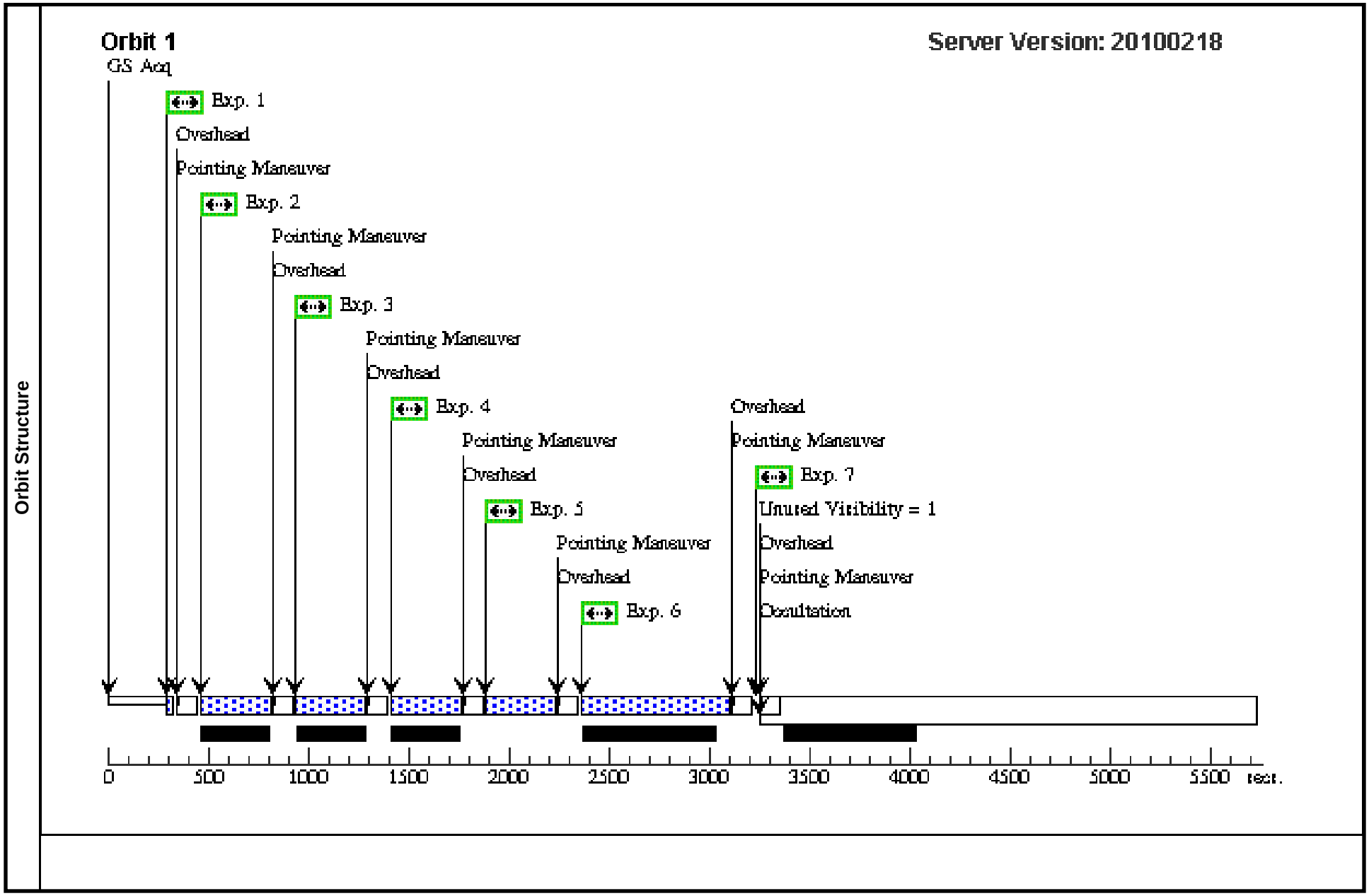
(Visit 33) Warning (Orbit Planner): VISIBILITY OVERRUN

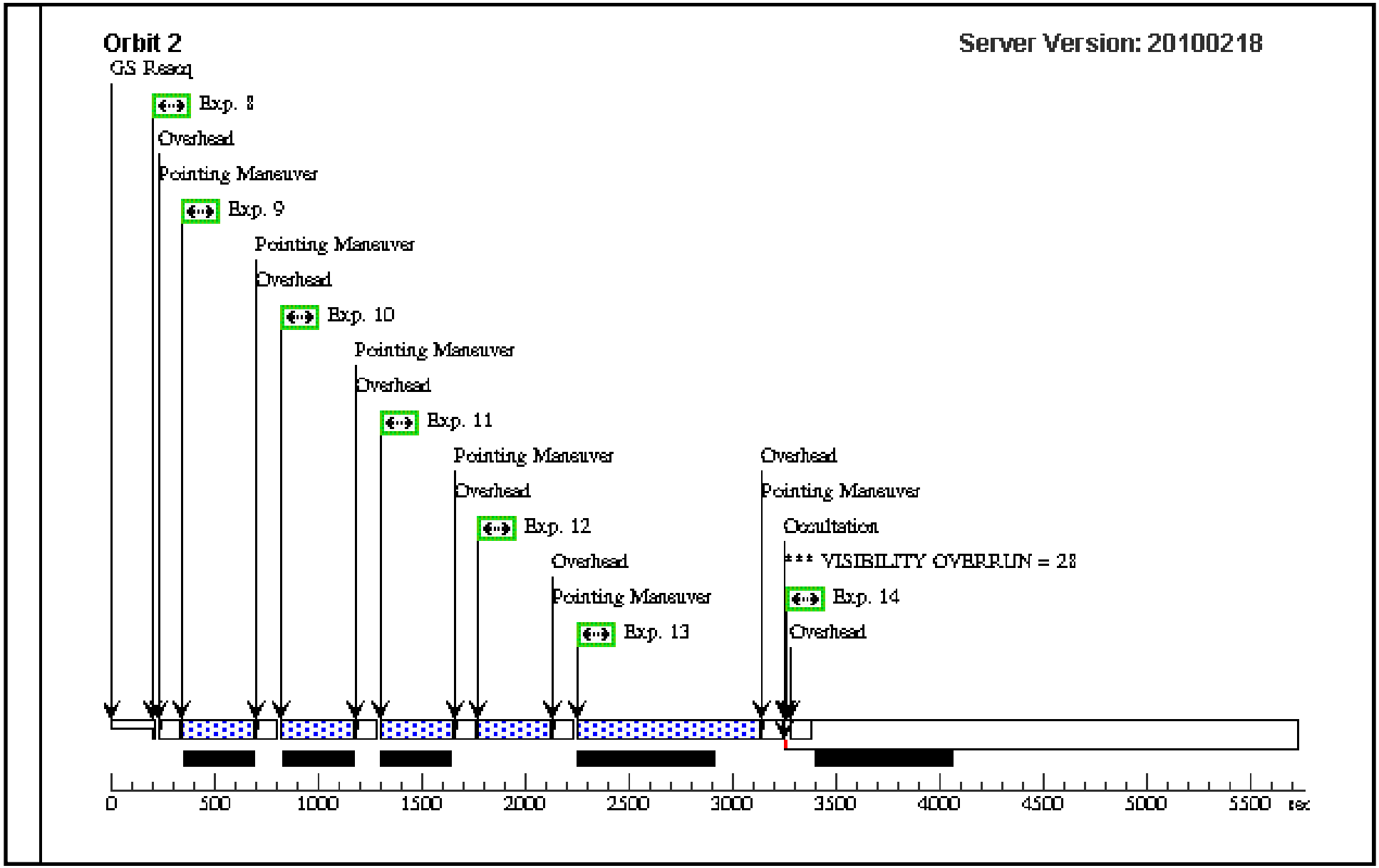
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	BULGE-BAADE	RA: 18 03 10.2300 (270.7926250d) Dec: -29 56 33.60 (-29.94267d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	short1i	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0297,-0.7886		1 Secs	
								[==>]	***[1]***
2	medium1i	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0000,-1.5812		348 Secs	
								[==>]	***[1]***
3	medium2i	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.1585,-1.5110		348 Secs	
								[==>]	***[1]***
4	medium3i	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0991,0.1649		348 Secs	
								[==>]	***[1]***
5	medium4i	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG -0.0594,0.0947		348 Secs	
								[==>]	***[1]***
6	long1i	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.0000,1.5812		740 Secs	
								[==>]	***[1]***
7	short2i	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG -0.0297,0.7886		10 Secs	
								[==>]	***[1]***
8	short1v	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0297,-0.7886		1 Secs	
								[==>]	***[2]***
9	medium1v	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0000,-1.5812		348 Secs	
								[==>]	***[2]***
10	medium2v	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.1585,-1.5110		348 Secs	
								[==>]	***[2]***
11	medium3v	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0991,0.1649		348 Secs	
								[==>]	***[2]***
12	medium4v	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG -0.0594,0.0947		348 Secs	
								[==>]	***[2]***
13	long1v	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0000,1.5812		880 Secs	
								[==>]	***[2]***
14	short2v	(4) BULGE-BAADE	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG -0.0297,0.7886		10 Secs	
								[==>]	***[2]***


Orbit Structure
Orbit 1
Server Version: 20100218
GS Acq
Exp. 1
Overhead
Pointing Maneuver
Exp. 2
Pointing Maneuver
Overhead
Exp. 3
Pointing Maneuver
Overhead
Exp. 4
Pointing Maneuver
Overhead
Exp. 5
Pointing Maneuver
Overhead
Exp. 6
Overhead
Pointing Maneuver
Exp. 7
Unused Visibility = 1
Overhead
Pointing Maneuver
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 2
Server Version: 20100218
GS Reacq
Exp. 8
Overhead
Pointing Maneuver
Exp. 9
Pointing Maneuver
Overhead
Exp. 10
Pointing Maneuver
Overhead
Exp. 11
Pointing Maneuver
Overhead
Exp. 12
Overhead
Pointing Maneuver
Exp. 13
Overhead
Pointing Maneuver
Occultation
*** VISIBILITY OVERRUN = 28
Exp. 14
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 34, completed Wed Mar 17 01:07:29 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR

Special Requirements: SAME ORIENT AS 31

Comments: F110W (J) and F160W (H).
Two full-frame tiles and two 512x512 subarray tiles to mosaic the UVIS.
Each IR tile is dithered 2x2 for PSF resampling, so 16 images per filter in this visit.
A full-frame tile is paired to its nearest subarray tile in each orbit to avoid multiple GS-ACQs within a given orbit, but note that the 2nd orbit has a GS-ACQ instead of a GS-REACQ because of the distance between the right-hand and left-hand pairs of IR tiles.
STEP sample sequences are used in both subarray and full-frame tiles because this increases dynamic range.*
The large distances between the centers of the IR tiles causes an APT warning, but this is not a problem.
The dither sequence hits every position twice (once per filter), and does so in consecutive exposures to reduce pointing maneuver overheads.
Filter switching is done H1-J1-J2-H2-H3-J3-J4-H4 in each tile to minimize filter wheel motions.

Diagnostics

(Visit 34) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 34) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 34) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
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(Visit 34) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 34) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	BULGE-BAADE	RA: 18 03 10.2300 (270.7926250d) Dec: -29 56 33.60 (-29.94267d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

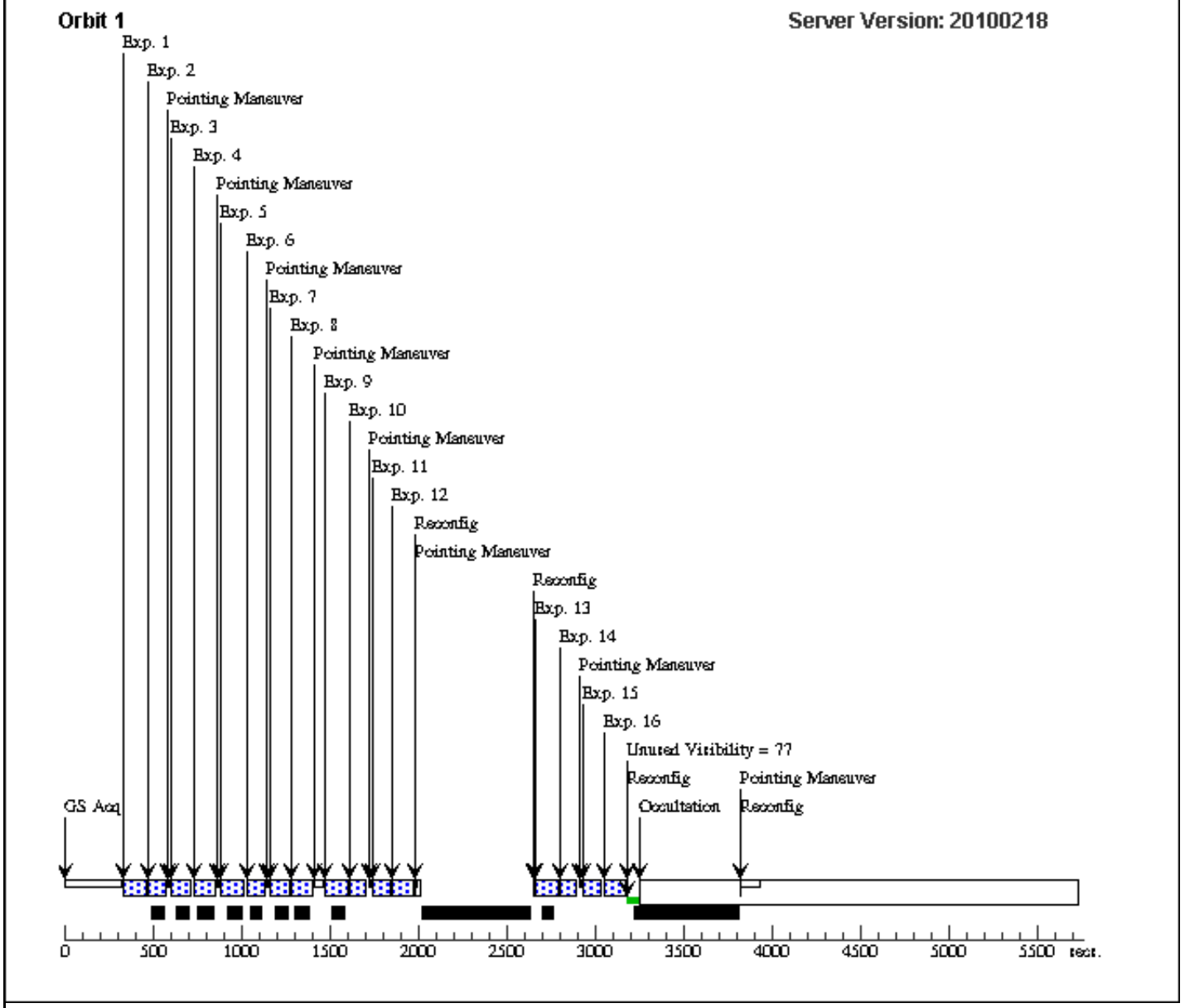
Exposures

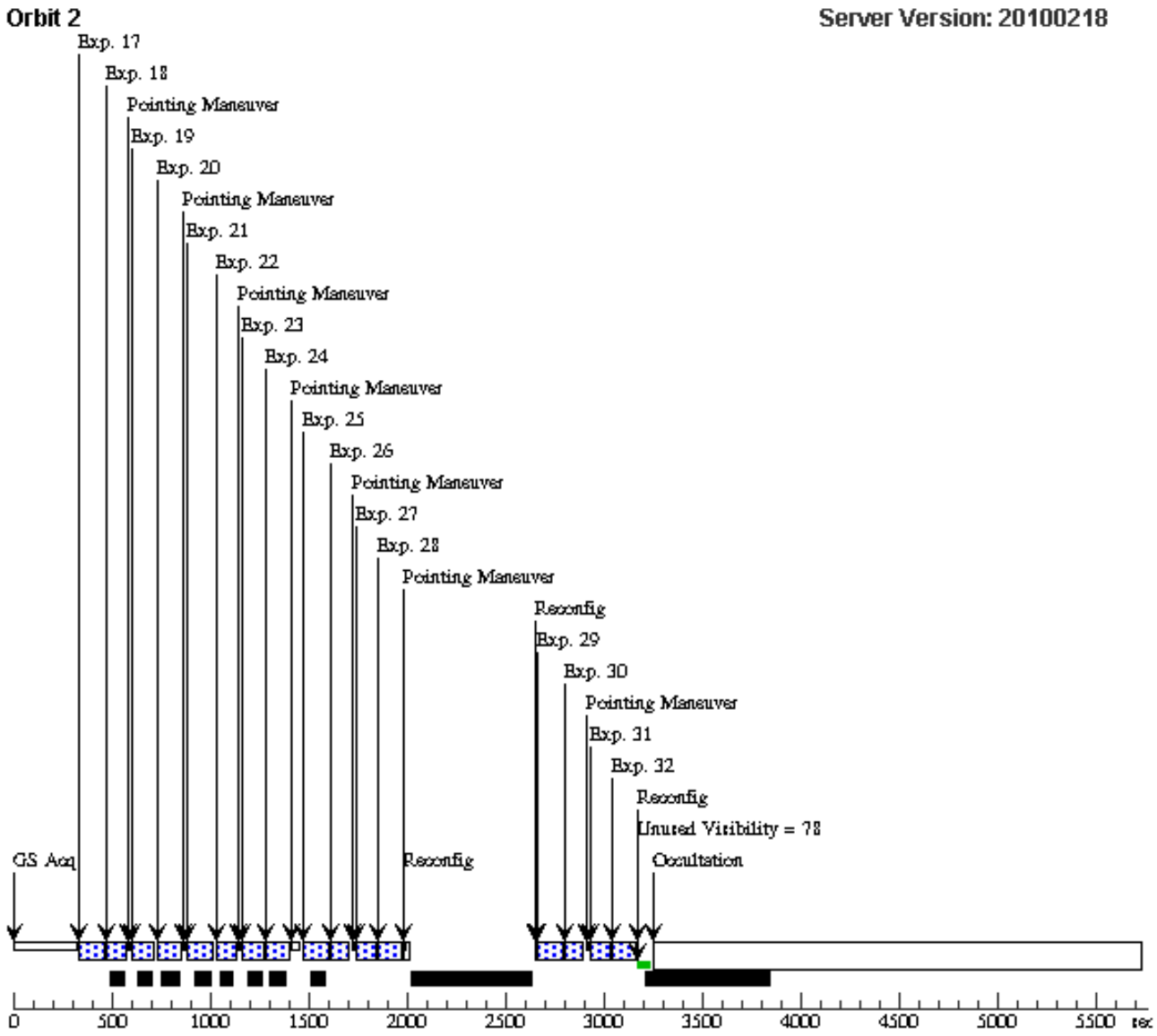
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	subLR1h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 52.70,-60.90		*[==>]*	***[1]***
2	subLR1j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 52.70,-60.90		*[==>]*	***[1]***
3	subLR2j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 53.242,-60.7184		*[==>]*	***[1]***
4	subLR2h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 53.2420, -60.7184		*[==>]*	***[1]***
5	subLR3h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 53.0387, -60.4156		*[==>]*	***[1]***
6	subLR3j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 53.0387, -60.4156		*[==>]*	***[1]***
7	subLR4j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 52.4967, -60.5973		*[==>]*	***[1]***
8	subLR4h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 52.4967, -60.5973		*[==>]*	***[1]***
9	fullUR1h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 17.9,29.1		*[==>]*	***[1]***
10	fullUR1j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 17.9,29.1		*[==>]*	***[1]***
11	fullUR2j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 18.4420, 29.2817		*[==>]*	***[1]***
12	fullUR2h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 18.4420, 29.2817		*[==>]*	***[1]***
13	fullUR3h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 18.2388, 29.5844		*[==>]*	***[1]***
14	fullUR3j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 18.2388, 29.5844		*[==>]*	***[1]***

	15	fullUR4j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 17.6967, 29.4028	*[==>]*	***[1]***
	16	fullUR4h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 17.6967, 29.4028	*[==>]*	***[1]***
	17	subUL1h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -51.5,58.6	*[==>]*	***[2]***
	18	subUL1j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -51.5,58.6	*[==>]*	***[2]***
	19	subUL2j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -50.958, 58.7816	*[==>]*	***[2]***
	20	subUL2h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -50.958, 58.7816	*[==>]*	***[2]***
	21	subUL3h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -51.161 3,59.0844	*[==>]*	***[2]***
	22	subUL3j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -51.161 3,59.0844	*[==>]*	***[2]***
	23	subUL4j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -51.703 3,58.9027	*[==>]*	***[2]***
	24	subUL4h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -51.703 3,58.9027	*[==>]*	***[2]***
	25	fullLL1h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.40,-29.80	*[==>]*	***[2]***
	26	fullLL1j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.40,-29.80	*[==>]*	***[2]***
	27	fullLL2j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -17.858, -29.6183	*[==>]*	***[2]***
	28	fullLL2h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -17.858, -29.6183	*[==>]*	***[2]***

	29	fullLL3h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.0612,-29.3156	*[==>]*	***[2]***
	30	fullLL3j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.0612,-29.3156	*[==>]*	***[2]***
	31	fullLL4j	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.6033,-29.4972	*[==>]*	***[2]***
	32	fullLL4h	(4) BULGE-BAADE	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.6033,-29.4972	*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20100218
Exp. 17
Exp. 18
Pointing Maneuver
Exp. 19
Exp. 20
Pointing Maneuver
Exp. 21
Exp. 22
Pointing Maneuver
Exp. 23
Exp. 24
Pointing Maneuver
Exp. 25
Exp. 26
Pointing Maneuver
Exp. 27
Exp. 28
Pointing Maneuver
Reconfig
Exp. 29
Exp. 30
Pointing Maneuver
Exp. 31
Exp. 32
Reconfig
Unused Visibility = 78
GS Acq
Reconfig
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500

Visit

Proposal 11664, Visit 41, completed Wed Mar 17 01:07:33 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Comments: F110W (J), F160W (H), and F555W (V).
Two full-frame IR tiles and two 512x512 subarray IR tiles to mosaic the UVIS.
Each IR tile is dithered 2x2 for PSF resampling, so 16 images per filter in this visit.
A full-frame tile is paired to its nearest subarray tile in each orbit to avoid multiple GS-ACQs within a given orbit, but note that the 2nd orbit has a GS-ACQ instead of a GS-REACQ because of the distance between the right-hand and left-hand pairs of IR tiles.
STEP sample sequences are used in both subarray and full-frame tiles because this increases dynamic range.*
The large distances between the centers of the IR tiles causes an APT warning, but this is not a problem.
The dither sequence hits every position twice (once per filter), and does so in consecutive exposures to reduce pointing maneuver overheads.
Filter switching is done H1-J1-J2-H2-H3-J3-J4-H4 in each tile to minimize filter wheel motions.
7 F555W exposures in orbit 3.
2 short exposures at (+0.75,-20) and (-0.75,+20), with exposure times of 1 sec and 10 sec, respectively.
4 medium exposures (348 sec each) in a 4-point dither pattern to resample the PSF, but with the first two offset by (0,-40) and the second two offset by (0,0).
1 long exposure (880 sec) offset by (0,+40).

Diagnostics

(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): VISIBILITY OVERRUN
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 41) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	DISK	RA: 18 59 45.0000 (284.9375000d) Dec: -04 26 8.40 (-4.43567d) Equinox: J2000		V=25+/-0.1	Reference Frame: ICRS

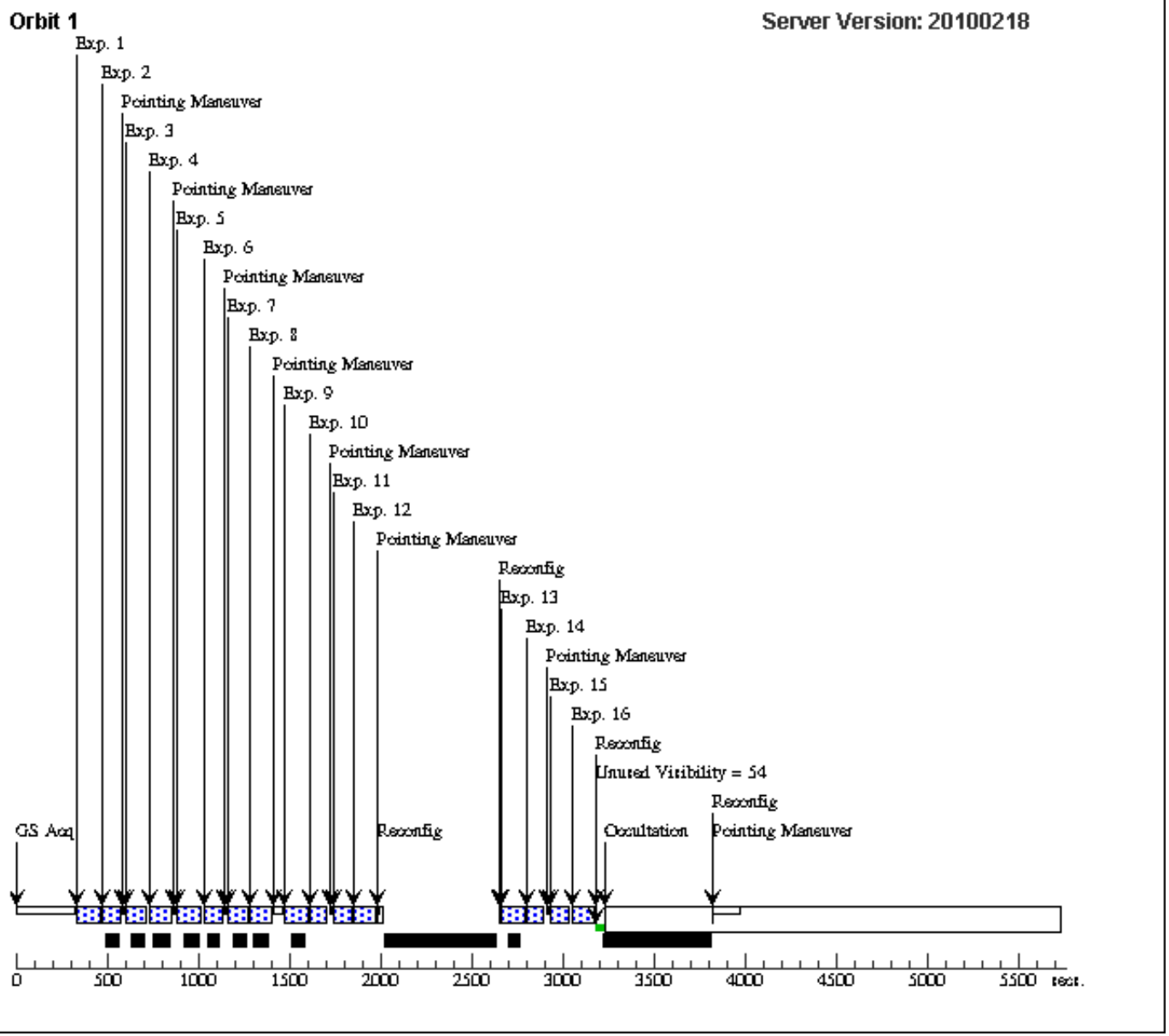
Exposures

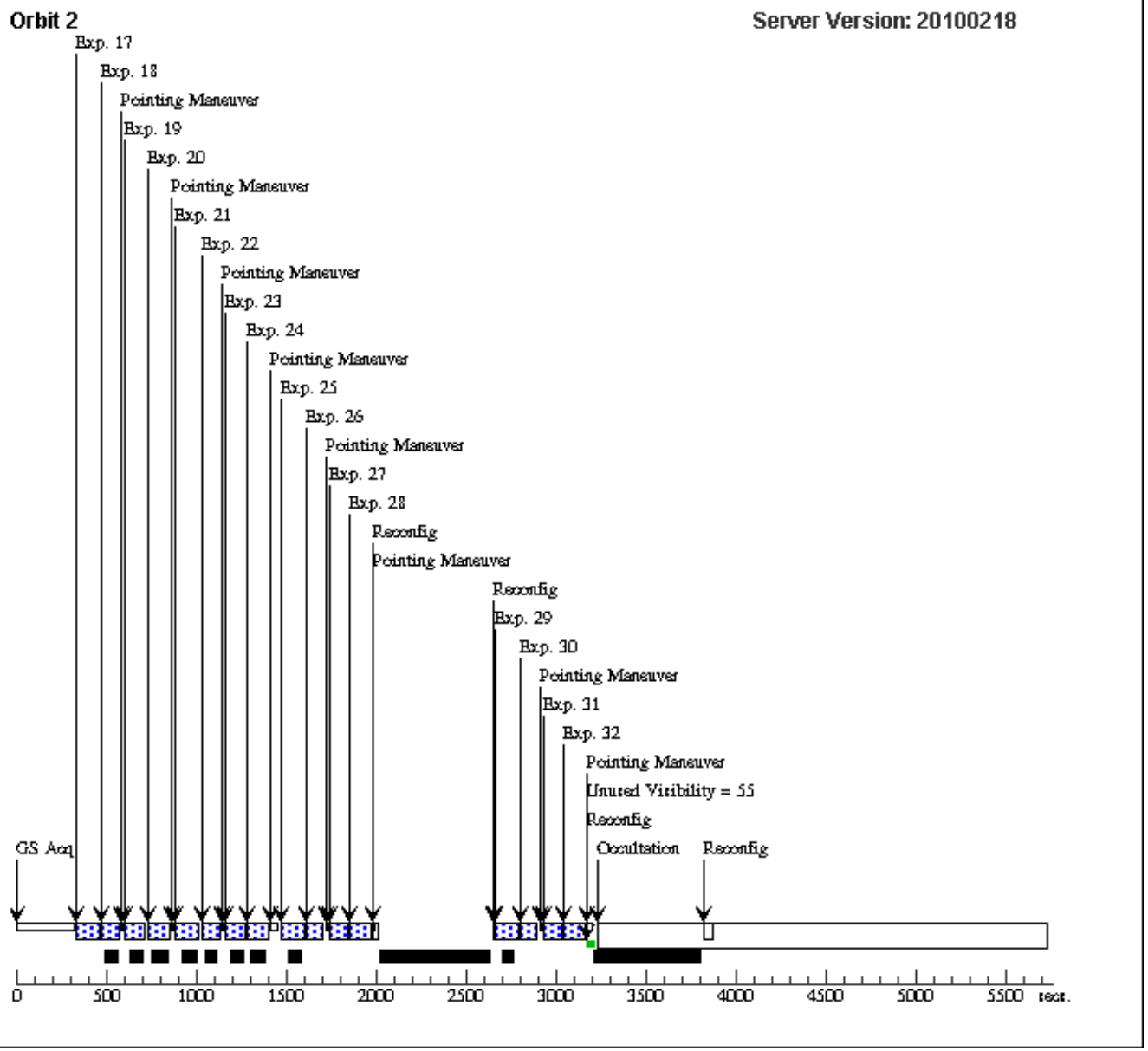
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	subLR1h	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 52.70,-60.90		*[==>]*	***[1]***
2	subLR1j	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 52.70,-60.90		*[==>]*	***[1]***
3	subLR2j	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 53.242,-60.7184		*[==>]*	***[1]***
4	subLR2h	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 53.2420, -60.7184		*[==>]*	***[1]***
5	subLR3h	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 53.0387, -60.4156		*[==>]*	***[1]***
6	subLR3j	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 53.0387, -60.4156		*[==>]*	***[1]***
7	subLR4j	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG 52.4967, -60.5973		*[==>]*	***[1]***
8	subLR4h	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG 52.4967, -60.5973		*[==>]*	***[1]***
9	fullUR1h	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 17.9,29.1		*[==>]*	***[1]***
10	fullUR1j	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 17.9,29.1		*[==>]*	***[1]***
11	fullUR2j	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 18.4420, 29.2817		*[==>]*	***[1]***
12	fullUR2h	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 18.4420, 29.2817		*[==>]*	***[1]***
13	fullUR3h	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 18.2388, 29.5844		*[==>]*	***[1]***
14	fullUR3j	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 18.2388, 29.5844		*[==>]*	***[1]***

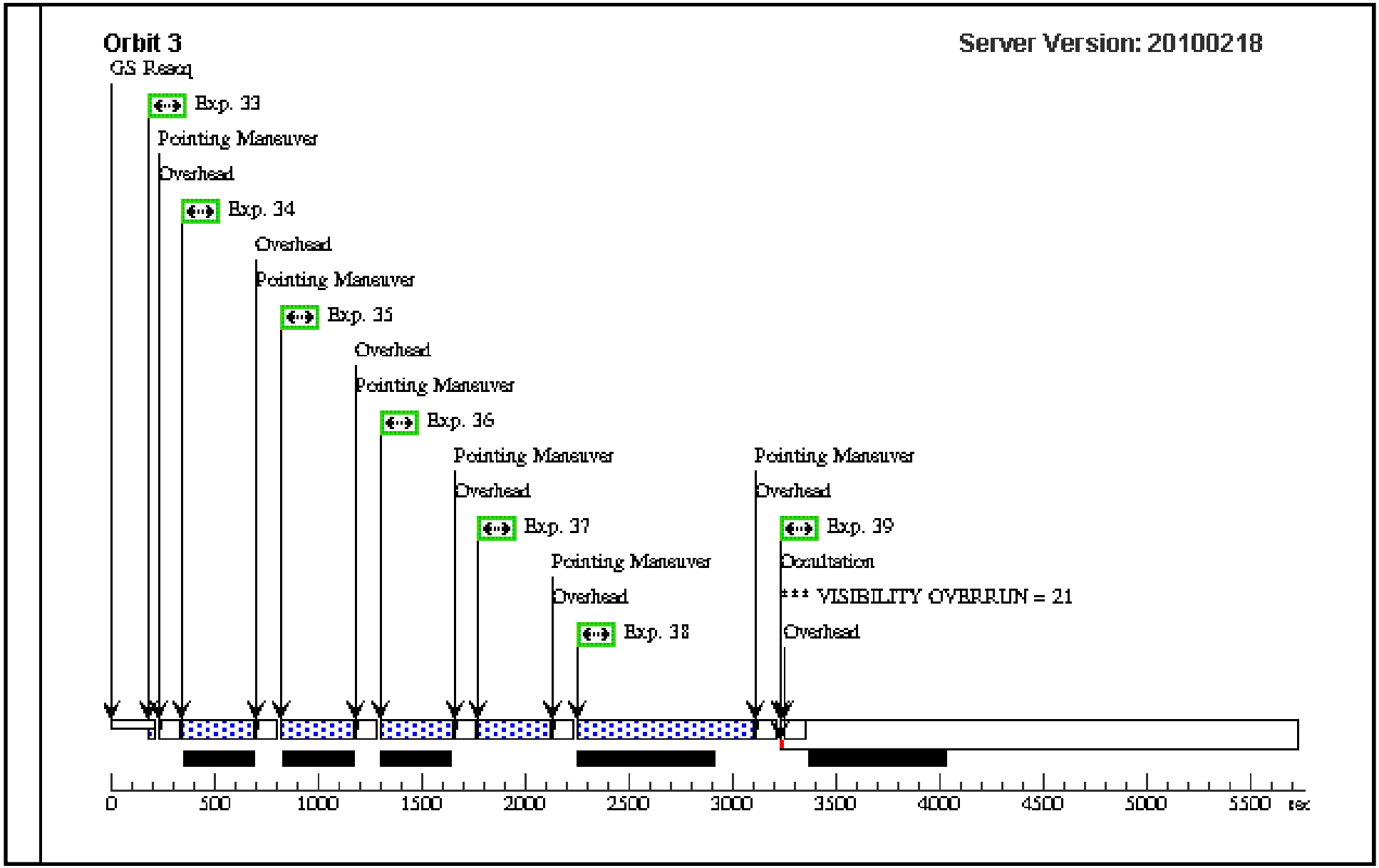
	15	fullUR4j	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG 17.6967, 29.4028	*[==>]*	***[1]***
	16	fullUR4h	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG 17.6967, 29.4028	*[==>]*	***[1]***
	17	subUL1h	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -51.5,58.6	*[==>]*	***[2]***
	18	subUL1j	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -51.5,58.6	*[==>]*	***[2]***
	19	subUL2j	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -50.958, 58.7816	*[==>]*	***[2]***
	20	subUL2h	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -50.958, 58.7816	*[==>]*	***[2]***
	21	subUL3h	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -51.161 3,59.0844	*[==>]*	***[2]***
	22	subUL3j	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -51.161 3,59.0844	*[==>]*	***[2]***
	23	subUL4j	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F110W	NSAMP=8; SAMP-SEQ=STEP25	POS TARG -51.703 3,58.9027	*[==>]*	***[2]***
	24	subUL4h	(5) DISK	WFC3/IR, MULTIACCUM, IRSUB512-FIX	F160W	NSAMP=9; SAMP-SEQ=STEP25	POS TARG -51.703 3,58.9027	*[==>]*	***[2]***
	25	fullLL1h	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.40,-29.80	*[==>]*	***[2]***
	26	fullLL1j	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.40,-29.80	*[==>]*	***[2]***
	27	fullLL2j	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -17.858, -29.6183	*[==>]*	***[2]***
	28	fullLL2h	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -17.858, -29.6183	*[==>]*	***[2]***

	29	fullLL3h	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.0612,-29.3156	*[==>]*	***[2]***
	30	fullLL3j	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.0612,-29.3156	*[==>]*	***[2]***
	31	fullLL4j	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP25; NSAMP=7	POS TARG -18.6033,-29.4972	*[==>]*	***[2]***
	32	fullLL4h	(5) DISK	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP50; NSAMP=7	POS TARG -18.6033,-29.4972	*[==>]*	***[2]***
	33	short1v	(5) DISK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0297,-0.7886	1 Secs *[==>]*	 ***[3]***
	34	medium1v	(5) DISK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0000,-1.5812	348 Secs *[==>]*	 ***[3]***
	35	medium2v	(5) DISK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.1585,-1.5110	348 Secs *[==>]*	 ***[3]***
	36	medium3v	(5) DISK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0991,0.1649	348 Secs *[==>]*	 ***[3]***
	37	medium4v	(5) DISK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG -0.0594,0.0947	348 Secs *[==>]*	 ***[3]***
	38	long1v	(5) DISK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.0000,1.5812	850 Secs *[==>]*	 ***[3]***
	39	short2v	(5) DISK	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG -0.0297,0.7886	10 Secs *[==>]*	 ***[3]***

Orbit Structure




Orbit 2
Server Version: 20100218
Exp. 17
Exp. 18
Pointing Maneuver
Exp. 19
Exp. 20
Pointing Maneuver
Exp. 21
Exp. 22
Pointing Maneuver
Exp. 23
Exp. 24
Pointing Maneuver
Exp. 25
Exp. 26
Pointing Maneuver
Exp. 27
Exp. 28
Reconfig
Pointing Maneuver
Reconfig
Exp. 29
Exp. 30
Pointing Maneuver
Exp. 31
Exp. 32
Pointing Maneuver
Unused Vitibility = 55
Reconfig
GS Acq
Occultation
Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100218
GS Reacq
Exp. 33
Pointing Maneuver
Overhead
Exp. 34
Overhead
Pointing Maneuver
Exp. 35
Overhead
Pointing Maneuver
Exp. 36
Pointing Maneuver
Overhead
Exp. 37
Pointing Maneuver
Overhead
Exp. 38
Pointing Maneuver
Overhead
Exp. 39
Occultation
*** VISIBILITY OVERRUN = 21
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 51, scheduling Wed Mar 17 01:07:38 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: (none)

Comments: 6 F390W exposures: 2x 40 sec, 2x 348 sec, 2x 715 sec, at postargs of (0,0) and (+2,+2) pixels.
4 F555W exposures: 1 sec at (0,0) pixels, 50 sec at (+2,+2) pixels, 2x 665 sec at (0,0) and (+2,+2) pixels.
4 F814W exposures: 1 sec at (0,0) pixels, 50 sec at (+2,+2) pixels, 2x 370 sec at (0,0) and (+2,+2) pixels.
In each IR filter, there are 4 exposures in a 2x2 PSF-resampling dither pattern in one corner of the UVIS field, and 2 in a 1x2 dither pattern at the other corner.
The exposures in the 1x2 dither pattern will not go as deep but will increase the number of bright stars, which are relatively rare. In the significant overlap between the two IR tiles, the total exposure time will be 1246 sec in each IR filter.

Diagnostics

(Visit 51) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 51) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

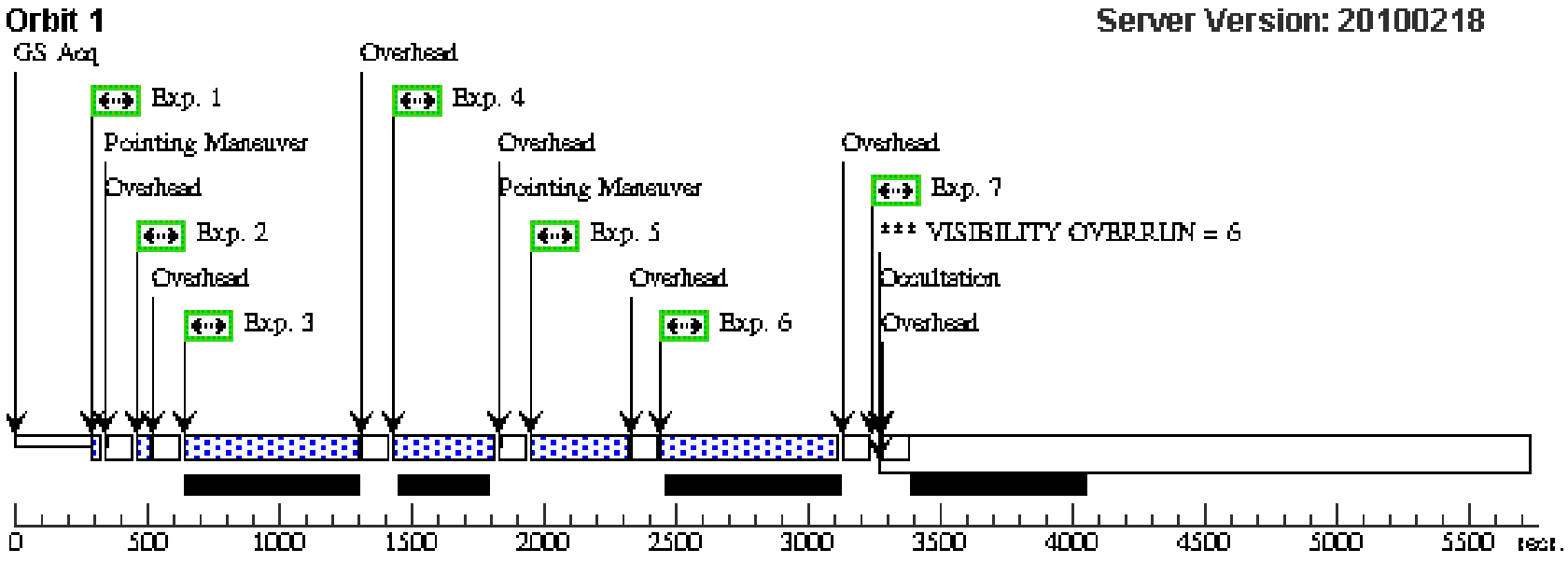
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	NGC6528	RA: 18 04 49.9200 (271.2080000d) Dec: -30 03 22.18 (-30.05616d) Equinox: J2000		V=10.7+/-0.1	Reference Frame: ICRS

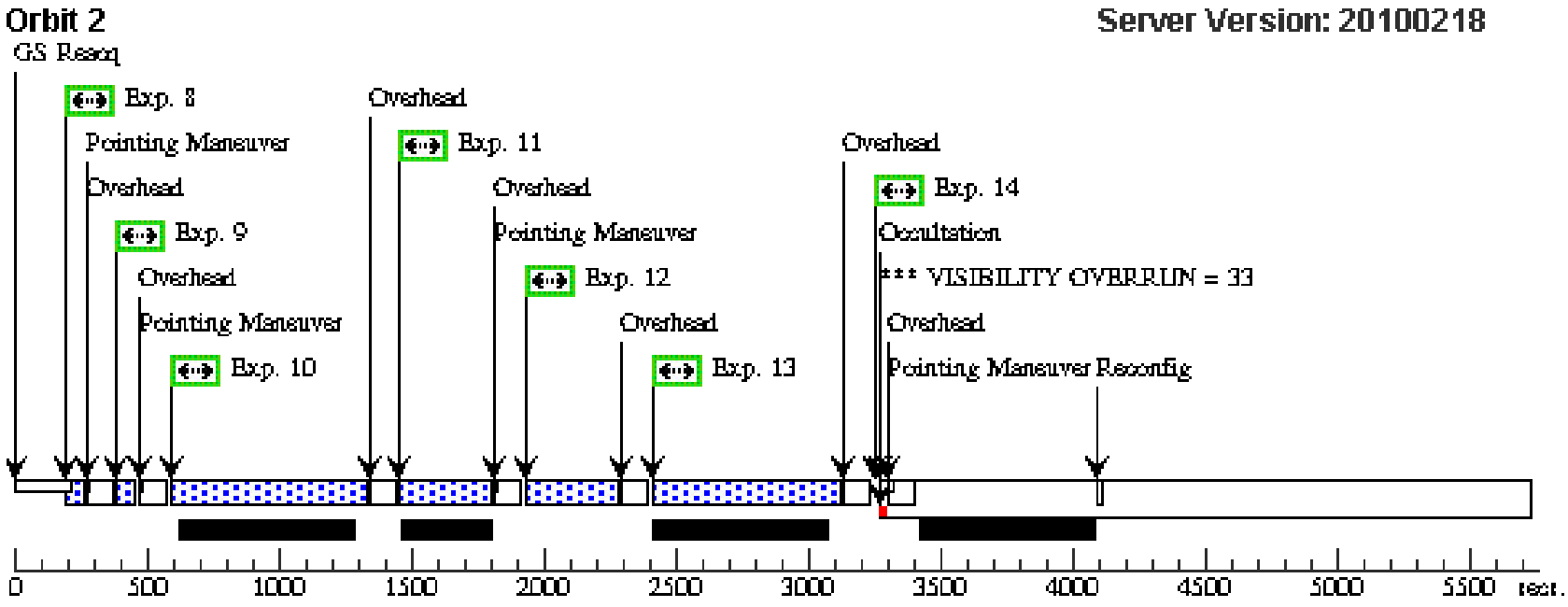
Exposures

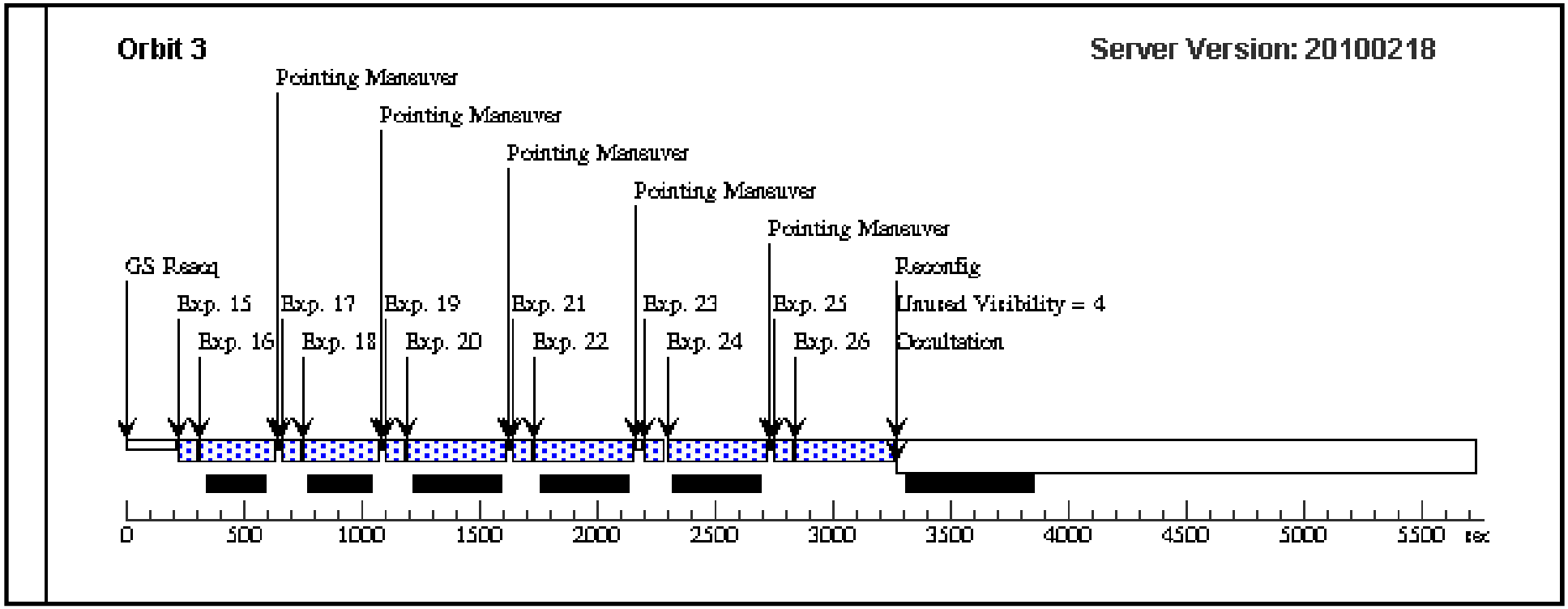
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	shortv1	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0,0		1 Secs	
								[==>]	***[1]***
2	mediumv2	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		50 Secs	
								[==>]	***[1]***
3	longv2	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		665 Secs	
								[==>]	***[1]***
4	longi2	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		370 Secs	
								[==>]	***[1]***
5	longi1	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0,0		370 Secs	
								[==>]	***[1]***
6	longv1	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0,0		665 Secs	
								[==>]	***[1]***
7	shorti1	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0,0		1 Secs	
								[==>]	***[1]***
8	shortc1	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		40 Secs	
								[==>]	***[2]***
9	mediumi2	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		50 Secs	
								[==>]	***[2]***
10	longc1	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		715 Secs	
								[==>]	***[2]***
11	mediumc1	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		348 Secs	
								[==>]	***[2]***
12	mediumc2	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		348 Secs	
								[==>]	***[2]***
13	longc2	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		715 Secs	
								[==>]	***[2]***
14	shortc2	(6) NGC6528	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		40 Secs	
								[==>]	***[2]***
15	fullUR1h	(6) NGC6528	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.20,15.70		*[==>]*	***[3]***
16	fullUR1j	(6) NGC6528	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=9	POS TARG 11.20,15.70		*[==>]*	***[3]***
17	fullUR2j	(6) NGC6528	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.742,15.8816		*[==>]*	***[3]***

	18	fullUR2h	(6) NGC6528	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=9	POS TARG 11.742,15.8816	*[==>]*	***[3]***
	19	fullUR3h	(6) NGC6528	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.5387, 16.1844	*[==>]*	***[3]***
	20	fullUR3j	(6) NGC6528	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG 11.5387, 16.1844	*[==>]*	***[3]***
	21	fullUR4j	(6) NGC6528	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	22	fullUR4h	(6) NGC6528	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	23	fullLL1h	(6) NGC6528	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG -9.3,-14.1	*[==>]*	***[3]***
	24	fullLL1j	(6) NGC6528	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG -9.3,-14.1	*[==>]*	***[3]***
	25	fullLL2j	(6) NGC6528	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	26	fullLL2h	(6) NGC6528	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***

Orbit Structure




Orbit 2
Server Version: 20100218
GS Reacq
Exp. 8
Pointing Maneuver
Overhead
Exp. 9
Overhead
Pointing Maneuver
Exp. 10
Overhead
Exp. 11
Overhead
Pointing Maneuver
Exp. 12
Overhead
Exp. 13
Overhead
Exp. 14
Occultation
*** VISIBILITY OVERRUN = 33
Overhead
Pointing Maneuver Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100218
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
GS Reacq
Exp. 15
Exp. 16
Exp. 17
Exp. 18
Exp. 19
Exp. 20
Exp. 21
Exp. 22
Exp. 23
Exp. 24
Exp. 25
Exp. 26
Reconfig
Unused Visibility = 4
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 52, scheduling Wed Mar 17 01:07:39 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: ORIENT 0.0D TO 0.0 D; ORIENT 77D TO 77 D; ORIENT 111D TO 111 D; ORIENT 130D TO 130 D; ORIENT 270D TO 270 D; ORIENT 281D TO 281 D; ORIENT 310D TO 310 D

*Comments: ***Please schedule at same orient as Visit 5 in GO-11729 if possible.****
6 F390W exposures: 2x 40 sec, 2x 348 sec, 2x 800 sec, at postargs of (0,0) and (+2,+2) pixels.
4 F555W exposures: 1 sec at (0,0) pixels, 50 sec at (+2,+2) pixels, 2x 665 sec at (0,0) and (+2,+2) pixels.
4 F814W exposures: 1 sec at (0,0) pixels, 50 sec at (+2,+2) pixels, 2x 455 sec at (0,0) and (+2,+2) pixels.
In each IR filter, there are 4 exposures in a 2x2 PSF-resampling dither pattern in one corner of the UVIS field, and 2 in a 1x2 dither pattern at the other corner.
The exposures in the 1x2 dither pattern will not go as deep but will increase the number of bright stars, which are relatively rare. In the significant overlap between the two IR tiles, the total exposure time will be 1246 sec in each IR filter.
In addition, there are 3 256x256 subarray exposures in each filter, using 15-read RAPID sequences, tiling a small region to obtain photometry of the brighter stars that will saturate immediately in the full-frame IR exposures.

Diagnostics

(Visit 52) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 52) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 52) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 52) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 52) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 52) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 52) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	NGC5927	RA: 15 28 0.2000 (232.0008333d) Dec: -50 40 26.20 (-50.67394d) Equinox: J2000		V=8.9+/-0.1	Reference Frame: ICRS

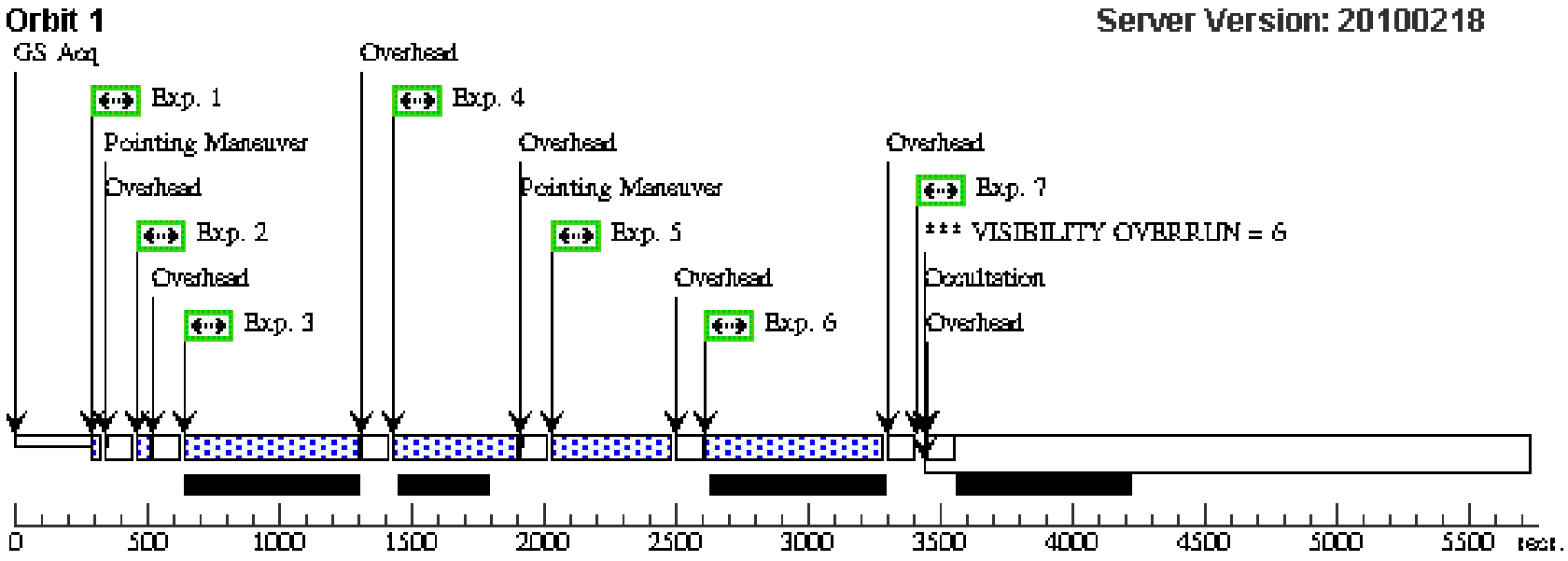
Exposures

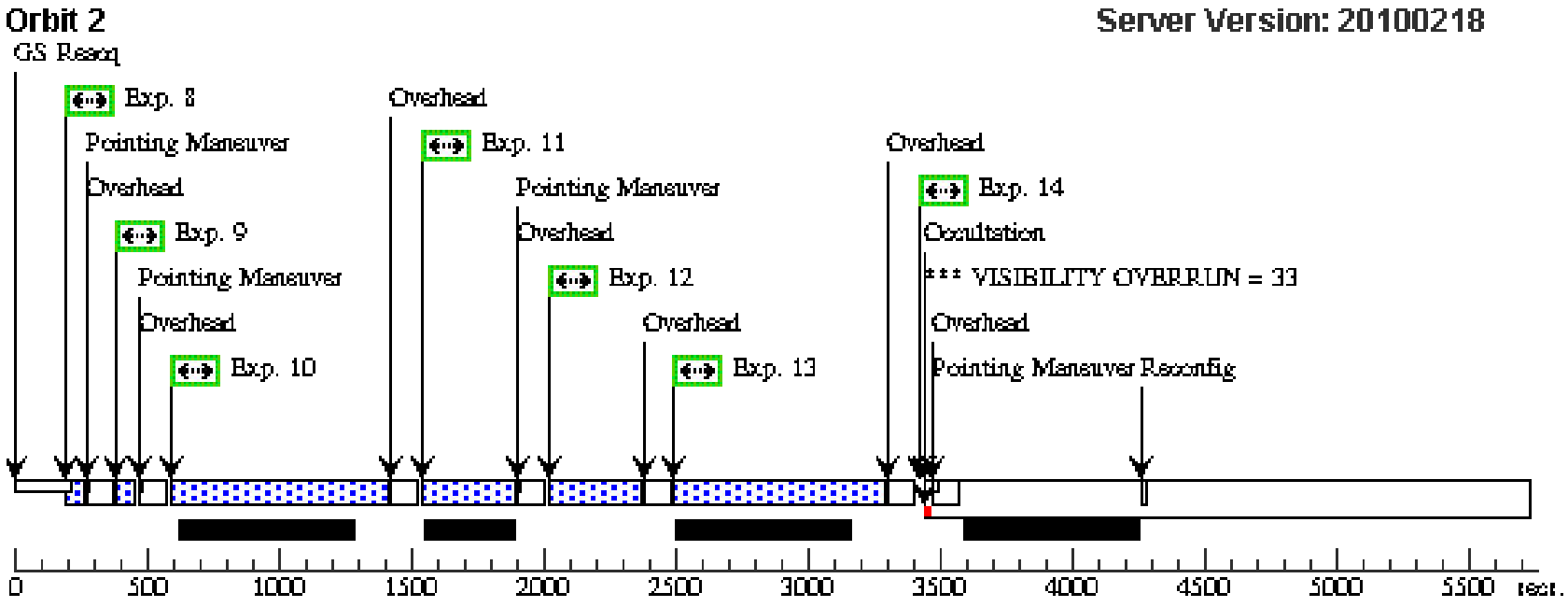
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	shortv1	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0,0		1 Secs	
								[==>]	***[1]***
2	mediumv2	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		50 Secs	
								[==>]	***[1]***
3	longv2	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		665 Secs	
								[==>]	***[1]***
4	longi2	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		455 Secs	
								[==>]	***[1]***
5	longi1	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0,0		455 Secs	
								[==>]	***[1]***
6	longv1	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0,0		665 Secs	
								[==>]	***[1]***
7	shorti1	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0,0		1 Secs	
								[==>]	***[1]***
8	shortc1	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		40 Secs	
								[==>]	***[2]***
9	mediumi2	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		50 Secs	
								[==>]	***[2]***
10	longc1	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		800 Secs	
								[==>]	***[2]***
11	mediumc1	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		348 Secs	
								[==>]	***[2]***
12	mediumc2	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		348 Secs	
								[==>]	***[2]***
13	longc2	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		800 Secs	
								[==>]	***[2]***
14	shortc2	(7) NGC5927	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		40 Secs	
								[==>]	***[2]***
15	fullUR1h	(7) NGC5927	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.20,15.70		*[==>]*	***[3]***
16	fullUR1j	(7) NGC5927	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=9	POS TARG 11.20,15.70		*[==>]*	***[3]***
17	fullUR2j	(7) NGC5927	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.742,15.8816		*[==>]*	***[3]***

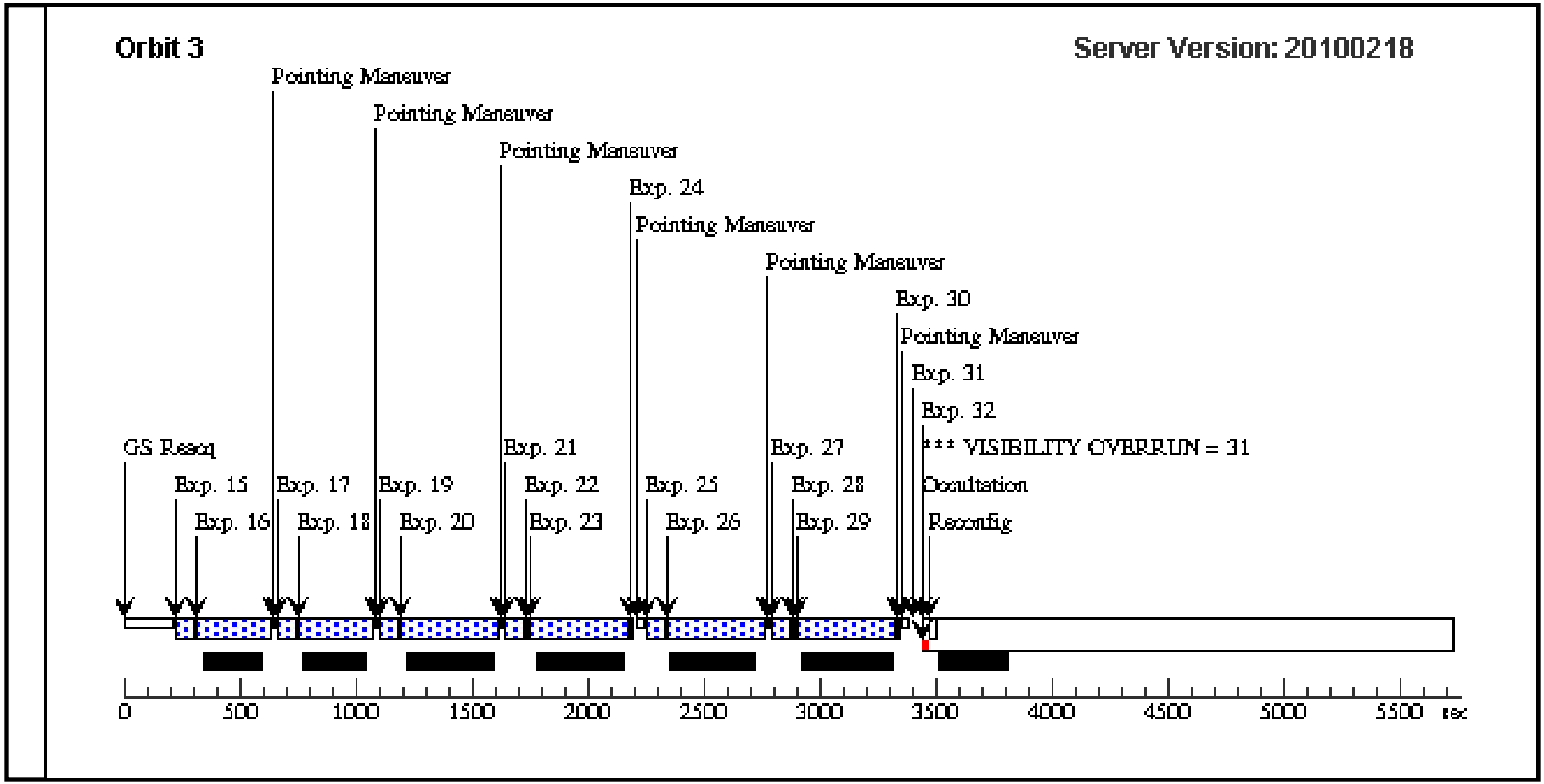
	18	fullUR2h	(7) NGC5927	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=9	POS TARG 11.742,15.8816	*[==>]*	***[3]***
	19	fullUR3h	(7) NGC5927	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.5387, 16.1844	*[==>]*	***[3]***
	20	fullUR3j	(7) NGC5927	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG 11.5387, 16.1844	*[==>]*	***[3]***
	21	fullUR4j	(7) NGC5927	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	22	sub1j	(7) NGC5927	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F110W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	23	fullUR4h	(7) NGC5927	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	24	sub1h	(7) NGC5927	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F160W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	25	fullLL1h	(7) NGC5927	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG -9.3,-14.1	*[==>]*	***[3]***
	26	fullLL1j	(7) NGC5927	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG -9.3,-14.1	*[==>]*	***[3]***
	27	fullLL2j	(7) NGC5927	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	28	sub2j	(7) NGC5927	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F110W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	29	fullLL2h	(7) NGC5927	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	30	sub2h	(7) NGC5927	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F160W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	31	sub3h	(7) NGC5927	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F160W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 24,-14	*[==>]*	***[3]***

	32	sub3j	(7) NGC5927	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F110W	SAMP-SEQ=RAPID POS TARG 24,-14 ; NSAMP=15	*[==>]*	***[3]***

Orbit Structure




Orbit 2
Server Version: 20100218
GS Reacq
Exp. 8
Pointing Maneuver
Overhead
Exp. 9
Pointing Maneuver
Overhead
Exp. 10
Overhead
Exp. 11
Pointing Maneuver
Overhead
Exp. 12
Overhead
Exp. 13
Overhead
Exp. 14
Occultation
*** VISIBILITY OVERRUN = 33
Overhead
Pointing Maneuver Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100218
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Exp. 24
Pointing Maneuver
Pointing Maneuver
Exp. 30
Pointing Maneuver
Exp. 31
Exp. 32
*** VISIBILITY OVERRUN = 31
GS Reacq
Exp. 15
Exp. 16
Exp. 17
Exp. 18
Exp. 19
Exp. 20
Exp. 21
Exp. 22
Exp. 23
Exp. 25
Exp. 26
Exp. 27
Exp. 28
Exp. 29
Occultation
Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 53, scheduling Wed Mar 17 01:07:41 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: ORIENT 0.0D TO 0.0 D; ORIENT 35D TO 35 D; ORIENT 50D TO 50 D; ORIENT 75D TO 75 D; ORIENT 85D TO 85 D; ORIENT 108D TO 108 D; ORIENT 130D TO 130 D; ORIENT 143D TO 143 D; ORIENT 160D TO 160 D; ORIENT 195D TO 195 D; ORIENT 207D TO 207 D; ORIENT 261D TO 261 D; ORIENT 310D TO 310 D

*Comments: ***Please schedule at same orient as Visit 2 in GO-11729 if possible.****
6 F390W exposures: 2x 10 sec, 2x 348 sec, 2x 930 sec, at postargs of (0,0) and (+2,+2) pixels.
4 F555W exposures: 0.5 sec at (0,0) pixels, 50 sec at (+2,+2) pixels, 2x 665 sec at (0,0) and (+2,+2) pixels.
4 F814W exposures: 0.5 sec at (0,0) pixels, 50 sec at (+2,+2) pixels, 2x 555 sec at (0,0) and (+2,+2) pixels.
In each IR filter, there are 4 exposures in a 2x2 PSF-resampling dither pattern in one corner of the UVIS field, and 2 in a 1x2 dither pattern at the other corner.
The exposures in the 1x2 dither pattern will not go as deep but will increase the number of bright stars, which are relatively rare. In the significant overlap between the two IR tiles, the total exposure time will be 1246 sec in each IR filter.
In addition, there are 4 256x256 subarray exposures in each filter, using 15-read RAPID sequences, tiling a small region to obtain photometry of the brighter stars that will saturate immediately in the full-frame IR exposures.

Diagnostics

(Visit 53) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 53) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 53) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 53) Warning (Orbit Planner): VISIBILITY OVERRUN
(Visit 53) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 53) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 53) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Visit 53) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	NGC104	RA: 00 24 15.2600 (6.0635833d) Dec: -72 05 47.93 (-72.09665d) Equinox: J2000		V=4.9+/-0.1	Reference Frame: ICRS

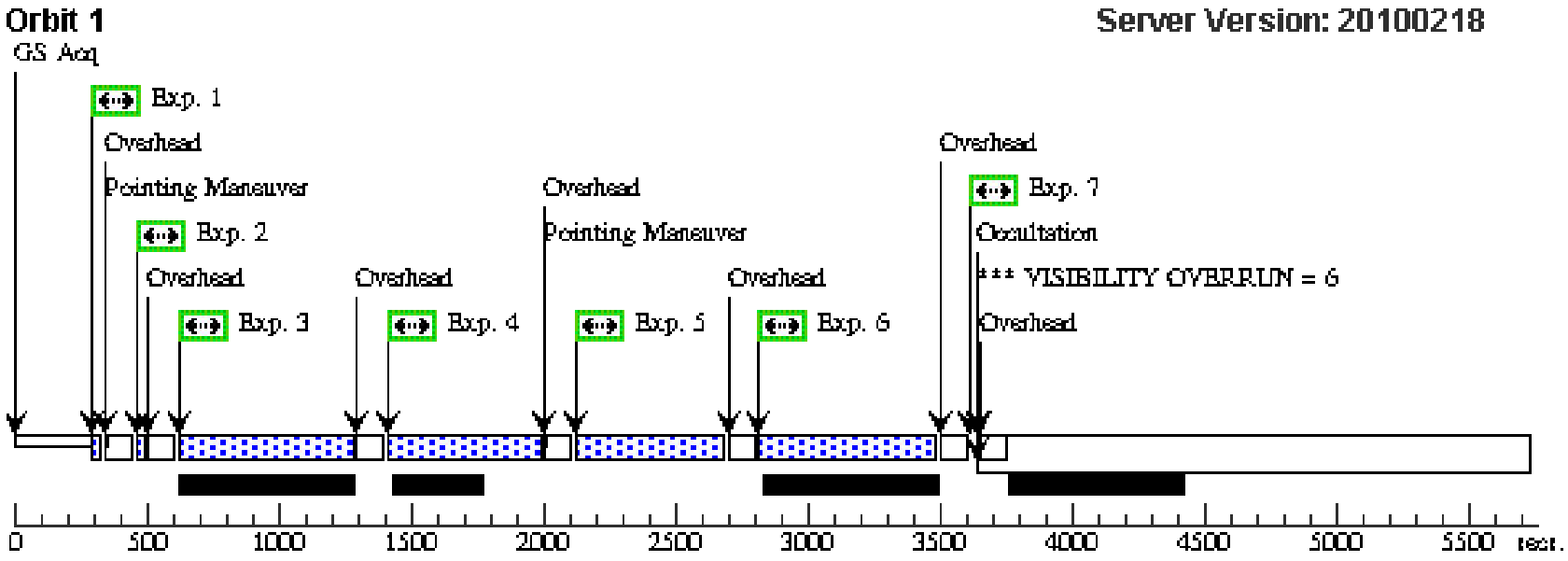
Exposures

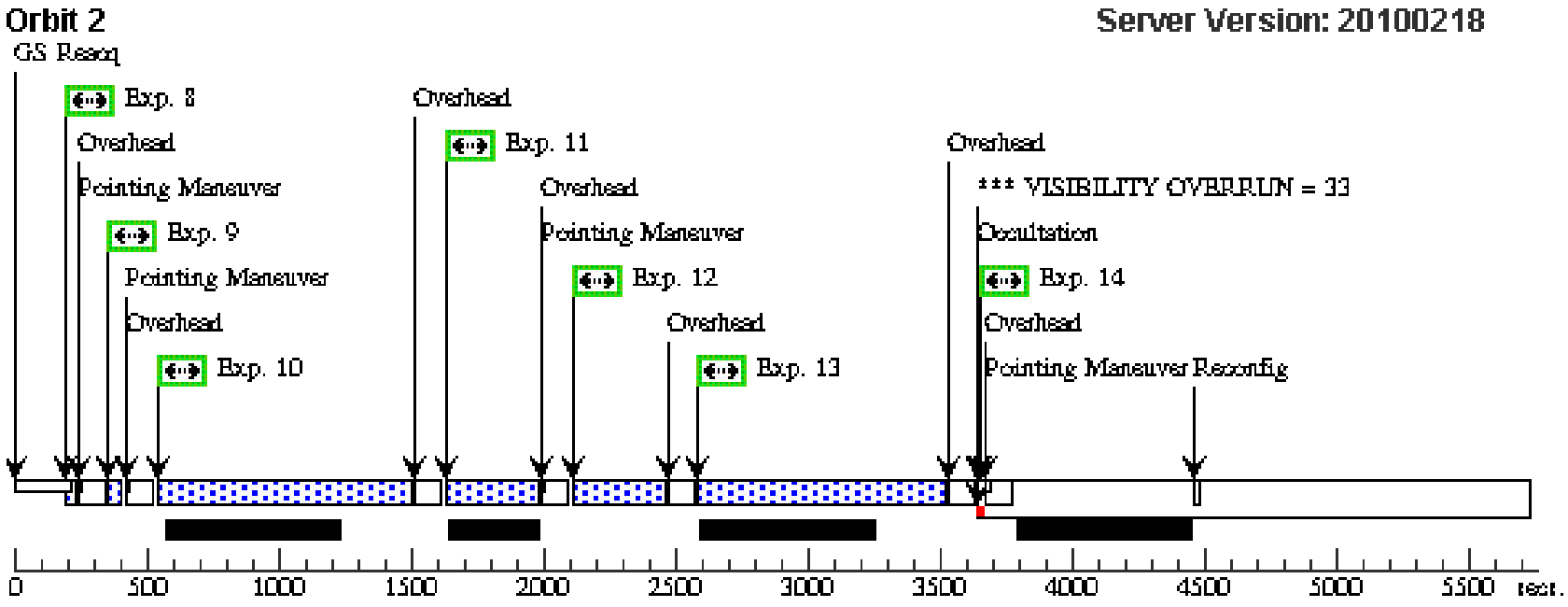
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	shortv1	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0,0		0.5 Secs *[==>]*	 ***[1]***
2	mediumv2	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		30 Secs *[==>]*	 ***[1]***
3	longv2	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		665 Secs *[==>]*	 ***[1]***
4	longi2	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		565 Secs *[==>]*	 ***[1]***
5	longi1	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0,0		565 Secs *[==>]*	 ***[1]***
6	longv1	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0,0		665 Secs *[==>]*	 ***[1]***
7	shorti1	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0,0		0.5 Secs *[==>]*	 ***[1]***
8	shortc1	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		10 Secs *[==>]*	 ***[2]***
9	mediumi2	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		30 Secs *[==>]*	 ***[2]***
10	longc1	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		940 Secs *[==>]*	 ***[2]***
11	mediumc1	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		348 Secs *[==>]*	 ***[2]***
12	mediumc2	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		348 Secs *[==>]*	 ***[2]***
13	longc2	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		940 Secs *[==>]*	 ***[2]***
14	shortc2	(8) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		10 Secs *[==>]*	 ***[2]***
15	fullUR1h	(8) NGC104	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.20,15.70		*[==>]*	***[3]***
16	fullUR1j	(8) NGC104	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=9	POS TARG 11.20,15.70		*[==>]*	***[3]***
17	fullUR2j	(8) NGC104	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.742,15.8816		*[==>]*	***[3]***

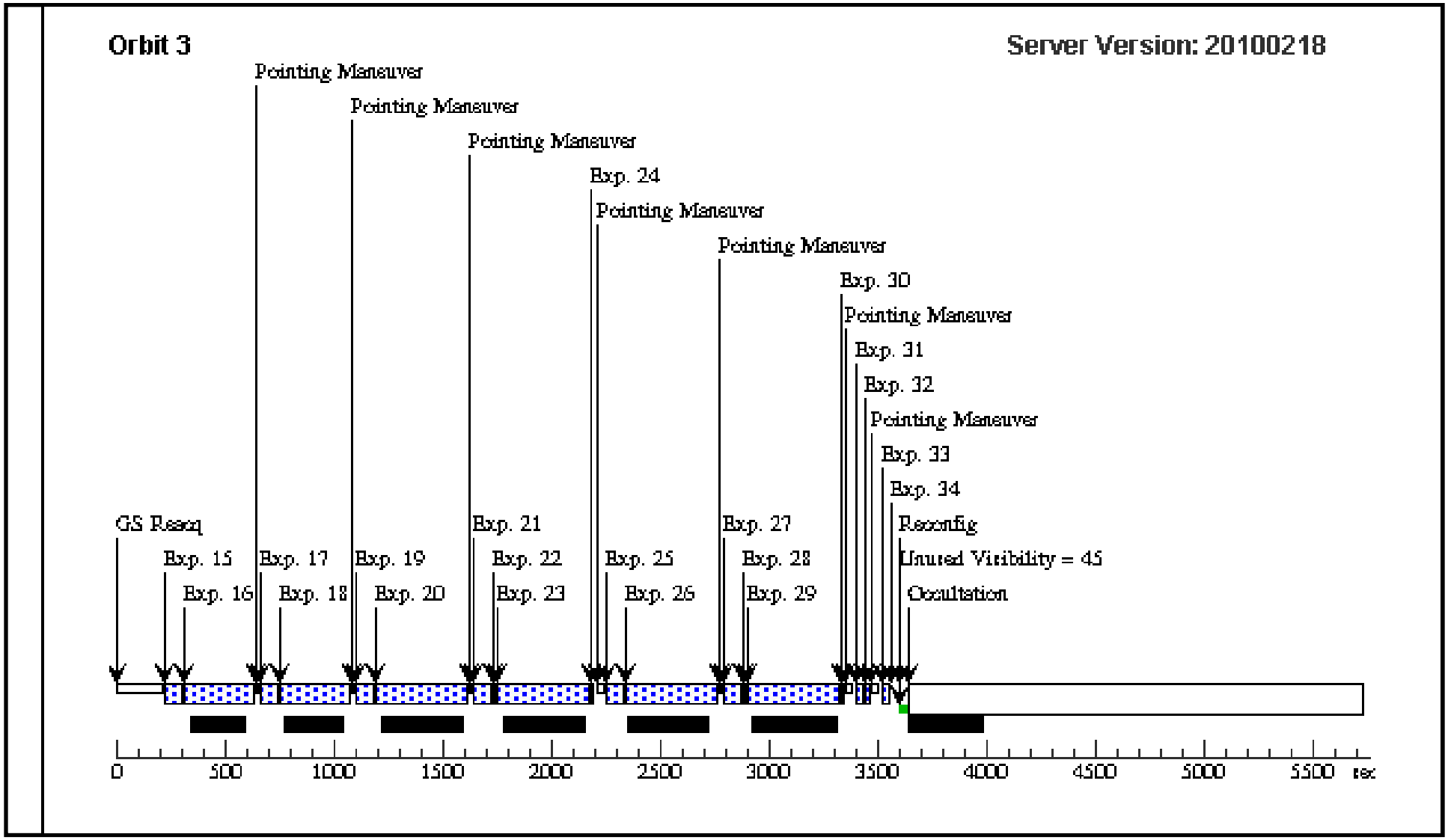
	18	fullUR2h	(8) NGC104	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=9	POS TARG 11.742,15.8816	*[==>]*	***[3]***
	19	fullUR3h	(8) NGC104	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.5387, 16.1844	*[==>]*	***[3]***
	20	fullUR3j	(8) NGC104	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG 11.5387, 16.1844	*[==>]*	***[3]***
	21	fullUR4j	(8) NGC104	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	22	sub1j	(8) NGC104	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F110W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	23	fullUR4h	(8) NGC104	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	24	sub1h	(8) NGC104	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F160W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	25	fullLL1h	(8) NGC104	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG -9.3,-14.1	*[==>]*	***[3]***
	26	fullLL1j	(8) NGC104	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG -9.3,-14.1	*[==>]*	***[3]***
	27	fullLL2j	(8) NGC104	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	28	sub2j	(8) NGC104	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F110W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	29	fullLL2h	(8) NGC104	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	30	sub2h	(8) NGC104	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F160W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	31	sub3h	(8) NGC104	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F160W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 24,-14	*[==>]*	***[3]***

	32	sub3j	(8) NGC104	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F110W	SAMP-SEQ=RAPID POS TARG 24,-14 ; NSAMP=15	*[==>]*	***[3]***
	33	sub4j	(8) NGC104	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F110W	SAMP-SEQ=RAPID POS TARG -23,16 ; NSAMP=15	*[==>]*	***[3]***
	34	sub4h	(8) NGC104	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F160W	SAMP-SEQ=RAPID POS TARG -23,16 ; NSAMP=15	*[==>]*	***[3]***

Orbit Structure




Orbit 2
Server Version: 20100218
GS Reacq
Exp. 8
Overhead
Pointing Maneuver
Exp. 9
Pointing Maneuver
Overhead
Exp. 10
Overhead
Exp. 11
Overhead
Pointing Maneuver
Exp. 12
Overhead
Exp. 13
Overhead
*** VISIBILITY OVERRUN = 33
Occultation
Exp. 14
Overhead
Pointing Maneuver Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100218
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Exp. 24
Pointing Maneuver
Pointing Maneuver
Exp. 30
Pointing Maneuver
Exp. 31
Exp. 32
Pointing Maneuver
Exp. 33
Exp. 34
Reconfig
Unused Visibility = 45
Occultation
GS Reacq
Exp. 15
Exp. 16
Exp. 17
Exp. 18
Exp. 19
Exp. 20
Exp. 21
Exp. 22
Exp. 23
Exp. 25
Exp. 26
Exp. 27
Exp. 28
Exp. 29
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 54, scheduling Wed Mar 17 01:07:44 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: ORIENT 49D TO 49 D; ORIENT 86D TO 86 D; ORIENT 100D TO 100 D; ORIENT 111D TO 111 D; ORIENT 225D TO 225 D; ORIENT 245D TO 245 D; ORIENT 291D TO 291 D; ORIENT 345D TO 345 D

*Comments: ***Please schedule at same orient as Visit 3 in GO-11729 if possible.****
6 F390W exposures: 2x 2 sec, 2x 348 sec, 2x 880 sec, at postargs of (0,0) and (+2,+2) pixels.
4 F555W exposures: 0.5 sec at (0,0) pixels, 30 sec at (+2,+2) pixels, 2x 665 sec at (0,0) and (+2,+2) pixels.
4 F814W exposures: 0.5 sec at (0,0) pixels, 30 sec at (+2,+2) pixels, 2x 495 sec at (0,0) and (+2,+2) pixels.
In each IR filter, there are 4 exposures in a 2x2 PSF-resampling dither pattern in one corner of the UVIS field, and 2 in a 1x2 dither pattern at the other corner.
The exposures in the 1x2 dither pattern will not go as deep but will increase the number of bright stars, which are relatively rare. In the significant overlap between the two IR tiles, the total exposure time will be 1246 sec in each IR filter.
In addition, there are 3 256x256 subarray exposures in each filter, using 15-read RAPID sequences, tiling a small region to obtain photometry of the brighter stars that will saturate immediately in the full-frame IR exposures.

Diagnostics

(Visit 54) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 54) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 54) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 54) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 54) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	NGC6752	RA: 19 10 54.8600 (287.7285833d) Dec: -59 59 11.15 (-59.98643d) Equinox: J2000		V=6.3+/-0.1	Reference Frame: ICRS

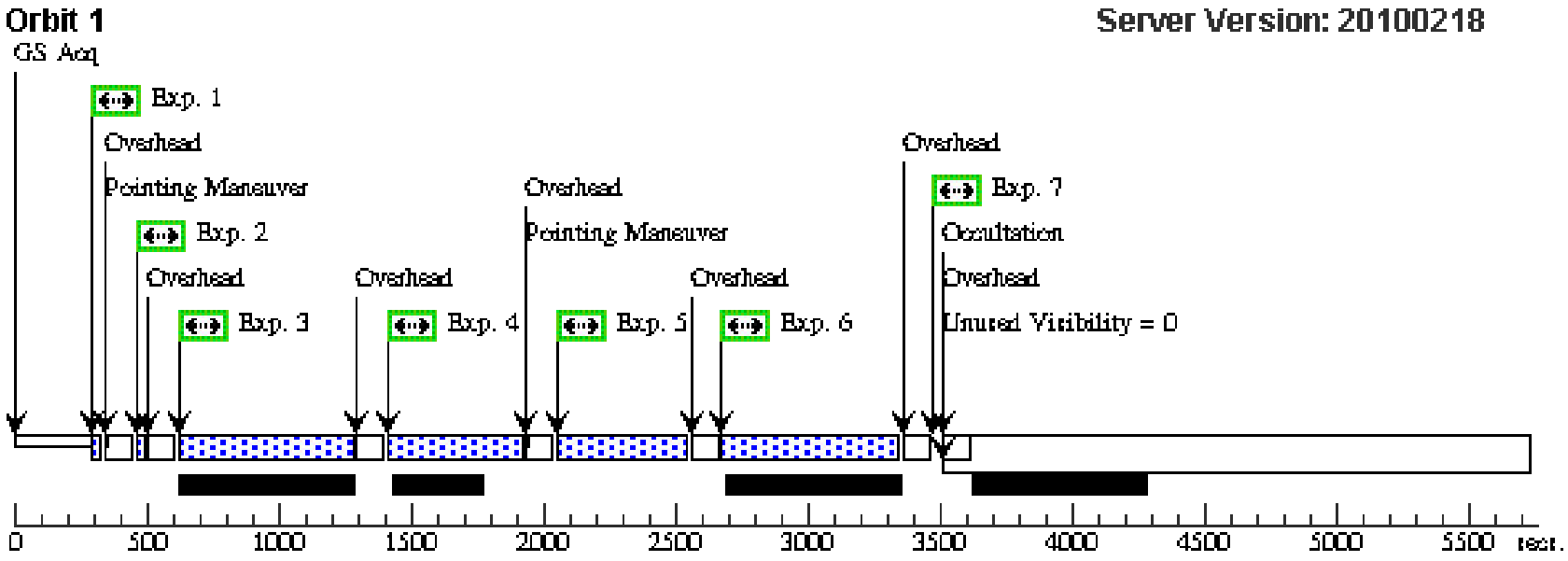
Exposures

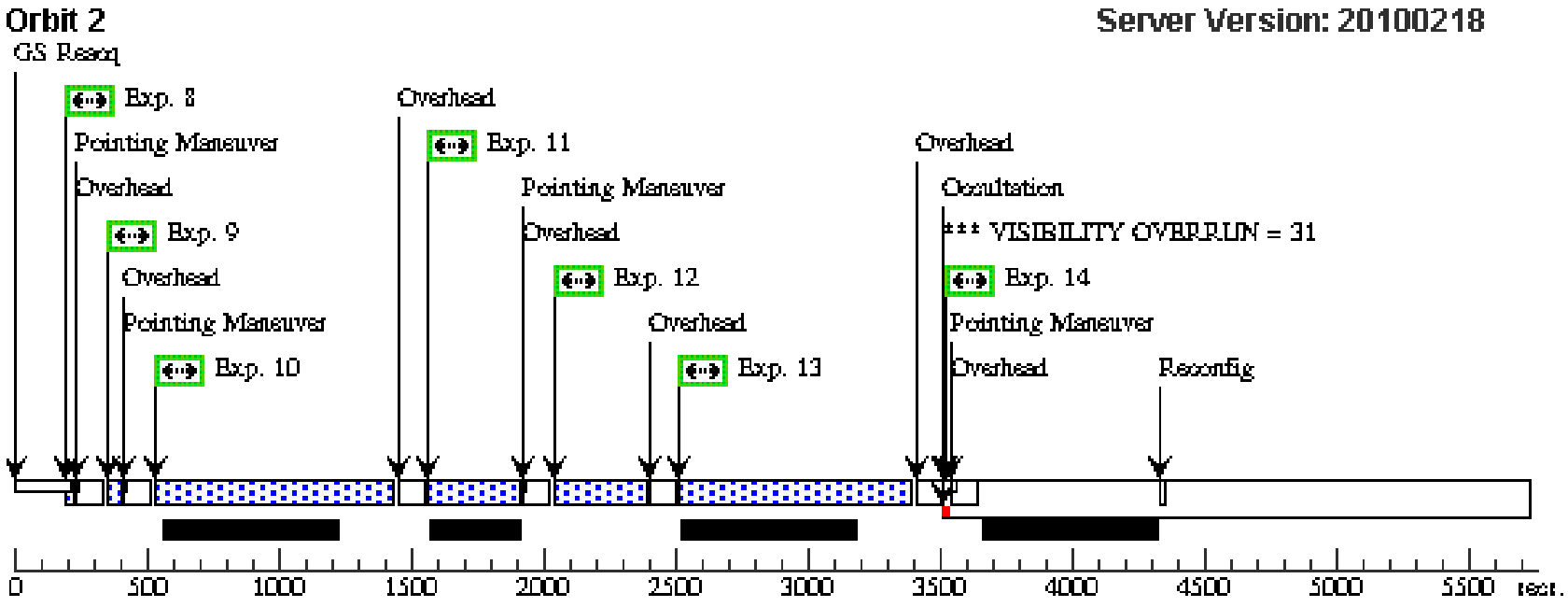
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	shortv1	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0,0		0.5 Secs	
								[==>]	***[1]***
2	mediumv2	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		30 Secs	
								[==>]	***[1]***
3	longv2	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		665 Secs	
								[==>]	***[1]***
4	longi2	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		495 Secs	
								[==>]	***[1]***
5	longi1	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0,0		495 Secs	
								[==>]	***[1]***
6	longv1	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0,0		665 Secs	
								[==>]	***[1]***
7	shorti1	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0,0		0.5 Secs	
								[==>]	***[1]***
8	shortc1	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		2 Secs	
								[==>]	***[2]***
9	mediumi2	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		30 Secs	
								[==>]	***[2]***
10	longc1	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		880 Secs	
								[==>]	***[2]***
11	mediumc1	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		348 Secs	
								[==>]	***[2]***
12	mediumc2	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		348 Secs	
								[==>]	***[2]***
13	longc2	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		880 Secs	
								[==>]	***[2]***
14	shortc2	(9) NGC6752	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		2 Secs	
								[==>]	***[2]***
15	fullUR1h	(9) NGC6752	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.20,15.70		*[==>]*	***[3]***
16	fullUR1j	(9) NGC6752	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=9	POS TARG 11.20,15.70		*[==>]*	***[3]***
17	fullUR2j	(9) NGC6752	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.742,15.8816		*[==>]*	***[3]***

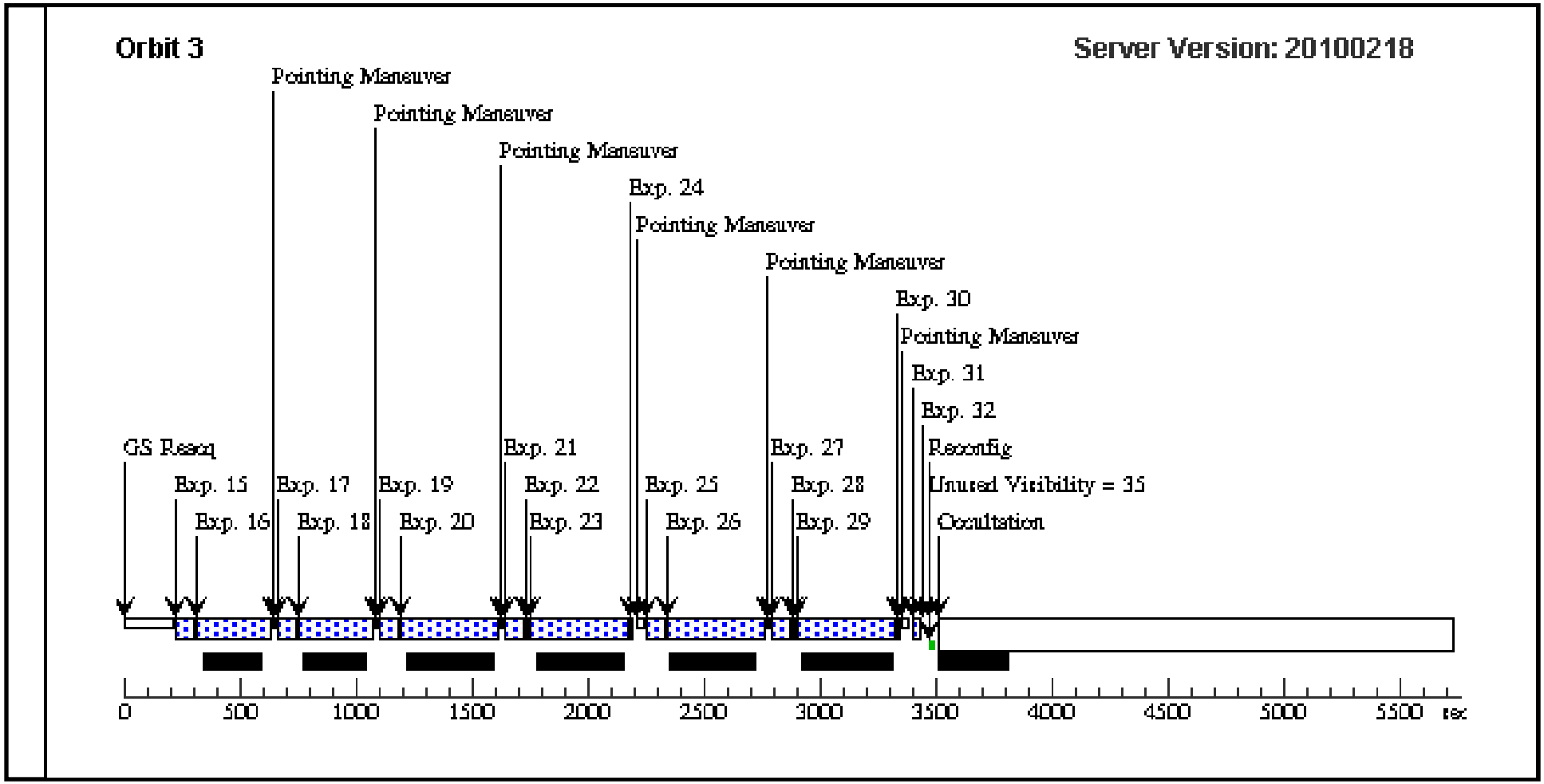
	18	fullUR2h	(9) NGC6752	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=9	POS TARG 11.742,15.8816	*[==>]*	***[3]***
	19	fullUR3h	(9) NGC6752	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.5387, 16.1844	*[==>]*	***[3]***
	20	fullUR3j	(9) NGC6752	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG 11.5387, 16.1844	*[==>]*	***[3]***
	21	fullUR4j	(9) NGC6752	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	22	sub1j	(9) NGC6752	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F110W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	23	fullUR4h	(9) NGC6752	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	24	sub1h	(9) NGC6752	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F160W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	25	fullLL1h	(9) NGC6752	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG -9.3,-14.1	*[==>]*	***[3]***
	26	fullLL1j	(9) NGC6752	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG -9.3,-14.1	*[==>]*	***[3]***
	27	fullLL2j	(9) NGC6752	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	28	sub2j	(9) NGC6752	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F110W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	29	fullLL2h	(9) NGC6752	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	30	sub2h	(9) NGC6752	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F160W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	31	sub3h	(9) NGC6752	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F160W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 24,-14	*[==>]*	***[3]***

	32	sub3j	(9) NGC6752	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F110W	SAMP-SEQ=RAPID POS TARG 24,-14 ; NSAMP=15	*[==>]*	***[3]***

Orbit Structure




Orbit 2
Server Version: 20100218
GS Reacq
Exp. 8
Pointing Maneuver
Overhead
Exp. 9
Overhead
Pointing Maneuver
Exp. 10
Overhead
Exp. 11
Pointing Maneuver
Overhead
Exp. 12
Overhead
Exp. 13
Overhead
Occultation
*** VISIBILITY OVERRUN = 31
Exp. 14
Pointing Maneuver
Overhead
Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100218
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Exp. 24
Pointing Maneuver
Pointing Maneuver
Exp. 30
Pointing Maneuver
Exp. 31
Exp. 32
Reconfig
Unused Visibility = 35
Occultation
GS Reacq
Exp. 15
Exp. 16
Exp. 17
Exp. 18
Exp. 19
Exp. 20
Exp. 21
Exp. 22
Exp. 23
Exp. 25
Exp. 26
Exp. 27
Exp. 28
Exp. 29
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 55, completed Wed Mar 17 01:07:46 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: ORIENT 16D TO 16 D; ORIENT 41D TO 41 D; ORIENT 53D TO 53 D; ORIENT 64D TO 64 D; ORIENT 75D TO 75 D; ORIENT 95D TO 95 D; ORIENT 140D TO 140 D; ORIENT 244D TO 244 D; ORIENT 330D TO 330 D; ORIENT 348D TO 348 D; ORIENT 359D TO 359 D

*Comments: ***Please schedule at same orient as Visit 4 in GO-11729 if possible.****
6 F390W exposures: 2x 2 sec, 2x 348 sec, 2x 805 sec, at postargs of (0,0) and (+2,+2) pixels.
4 F555W exposures: 0.5 sec at (0,0) pixels, 30 sec at (+2,+2) pixels, 2x 665 sec at (0,0) and (+2,+2) pixels.
4 F814W exposures: 0.5 sec at (0,0) pixels, 20 sec at (+2,+2) pixels, 2x 415 sec at (0,0) and (+2,+2) pixels.
In each IR filter, there are 4 exposures in a 2x2 PSF-resampling dither pattern in one corner of the UVIS field, and 2 in a 1x2 dither pattern at the other corner.
The exposures in the 1x2 dither pattern will not go as deep but will increase the number of bright stars, which are relatively rare. In the significant overlap between the two IR tiles, the total exposure time will be 1246 sec in each IR filter.
In addition, there are 2 256x256 subarray exposures in each filter, using 15-read RAPID sequences, tiling a small region to obtain photometry of the brighter stars that will saturate immediately in the full-frame IR exposures.

Diagnostics

(Visit 55) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 55) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 55) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 55) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 55) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

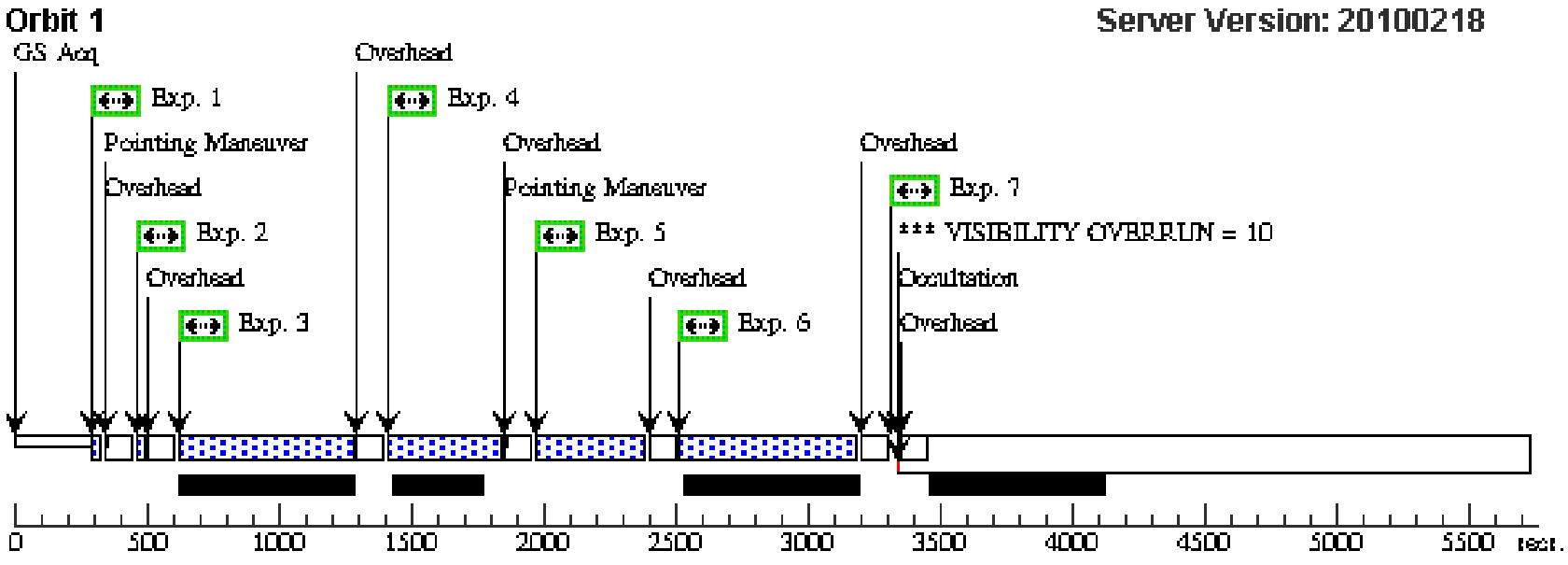
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	NGC6341	RA: 17 17 7.0500 (259.2793750d) Dec: +43 07 58.25 (43.13285d) Equinox: J2000		V=6.3+/-0.1	Reference Frame: ICRS

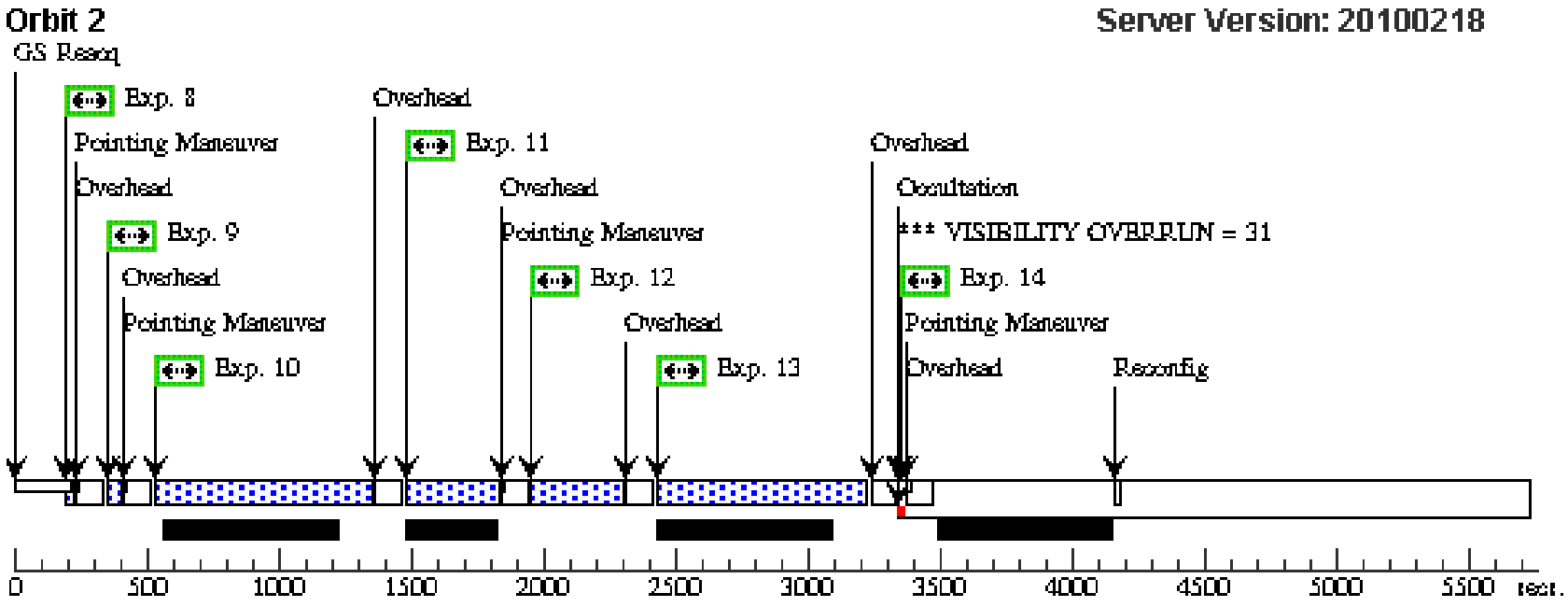
Exposures

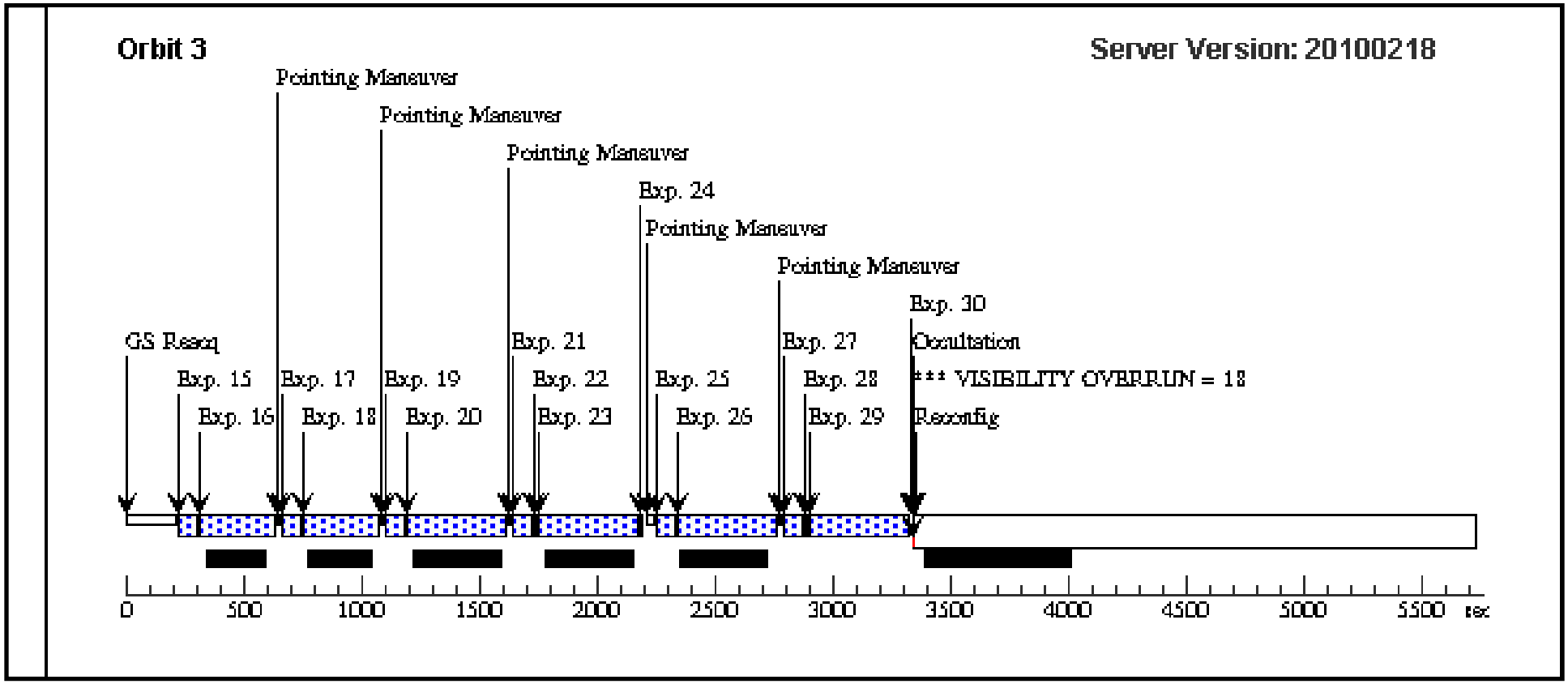
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	shortv1	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0,0		0.5 Secs	
								[==>]	***[1]***
2	mediumv2	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		30 Secs	
								[==>]	***[1]***
3	longv2	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		665 Secs	
								[==>]	***[1]***
4	longi2	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		415 Secs	
								[==>]	***[1]***
5	longi1	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0,0		415 Secs	
								[==>]	***[1]***
6	longv1	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0,0		665 Secs	
								[==>]	***[1]***
7	shorti1	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0,0		0.5 Secs	
								[==>]	***[1]***
8	shortc1	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		2 Secs	
								[==>]	***[2]***
9	mediumi2	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		30 Secs	
								[==>]	***[2]***
10	longc1	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		795 Secs	
								[==>]	***[2]***
11	mediumc1	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		348 Secs	
								[==>]	***[2]***
12	mediumc2	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		348 Secs	
								[==>]	***[2]***
13	longc2	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		795 Secs	
								[==>]	***[2]***
14	shortc2	(10) NGC6341	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		2 Secs	
								[==>]	***[2]***
15	fullUR1h	(10) NGC6341	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.20,15.70		*[==>]*	***[3]***
16	fullUR1j	(10) NGC6341	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=9	POS TARG 11.20,15.70		*[==>]*	***[3]***
17	fullUR2j	(10) NGC6341	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.742,15.8816		*[==>]*	***[3]***

	18	fullUR2h	(10) NGC6341	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=9	POS TARG 11.742,15.8816	*[==>]*	***[3]***
	19	fullUR3h	(10) NGC6341	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.5387, 16.1844	*[==>]*	***[3]***
	20	fullUR3j	(10) NGC6341	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG 11.5387, 16.1844	*[==>]*	***[3]***
	21	fullUR4j	(10) NGC6341	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	22	sub1j	(10) NGC6341	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F110W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	23	fullUR4h	(10) NGC6341	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	24	sub1h	(10) NGC6341	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F160W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	25	fullLL1h	(10) NGC6341	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG -9.3,-14.1	*[==>]*	***[3]***
	26	fullLL1j	(10) NGC6341	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG -9.3,-14.1	*[==>]*	***[3]***
	27	fullLL2j	(10) NGC6341	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	28	sub2j	(10) NGC6341	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F110W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	29	fullLL2h	(10) NGC6341	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	30	sub2h	(10) NGC6341	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F160W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***

Orbit Structure




Orbit 2
Server Version: 20100218
GS Reacq
Exp. 8
Pointing Maneuver
Overhead
Exp. 9
Overhead
Pointing Maneuver
Exp. 10
Overhead
Exp. 11
Overhead
Pointing Maneuver
Exp. 12
Overhead
Exp. 13
Overhead
Occultation
*** VISIBILITY OVERRUN = 31
Exp. 14
Pointing Maneuver
Overhead
Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100218
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Exp. 24
Pointing Maneuver
Pointing Maneuver
Exp. 30
GS Reacq
Exp. 15
Exp. 16
Exp. 17
Exp. 18
Exp. 19
Exp. 20
Exp. 21
Exp. 22
Exp. 23
Exp. 25
Exp. 26
Exp. 27
Exp. 28
Exp. 29
Occultation
*** VISIBILITY OVERRUN = 18
Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11664, Visit 56, completed Wed Mar 17 01:07:47 GMT 2010

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS

Special Requirements: ORIENT 0.0D TO 0.0 D; ORIENT 17D TO 17 D; ORIENT 47D TO 47 D; ORIENT 58D TO 58 D; ORIENT 70D TO 70 D; ORIENT 102D TO 102 D; ORIENT 134D TO 134 D; ORIENT 172D TO 172 D; ORIENT 220D TO 220 D; ORIENT 267D TO 267 D; ORIENT 300D TO 300 D; ORIENT 330D TO 330 D

*Comments: ***Please schedule at same orient as Visit 1 in GO-11729 if possible.***
6 F390W exposures: 2x 2 sec, 2x 348 sec, 2x 775 sec, at postargs of (0,0) and (+2,+2) pixels.
4 F555W exposures: 0.5 sec at (0,0) pixels, 30 sec at (+2,+2) pixels, 2x 665 sec at (0,0) and (+2,+2) pixels.
4 F814W exposures: 0.5 sec at (0,0) pixels, 30 sec at (+2,+2) pixels, 2x 390 sec at (0,0) and (+2,+2) pixels.
In each IR filter, there are 4 exposures in a 2x2 PSF-resampling dither pattern in one corner of the UVIS field, and 2 in a 1x2 dither pattern at the other corner.
The exposures in the 1x2 dither pattern will not go as deep but will increase the number of bright stars, which are relatively rare. In the significant overlap between the two IR tiles, the total exposure time will be 1246 sec in each IR filter.
In addition, there are 2 256x256 subarray exposures in each filter, using 15-read RAPID sequences, tiling a small region to obtain photometry of the brighter stars that will saturate immediately in the full-frame IR exposures.*

Diagnostics

(Visit 56) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 56) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit 56) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Visit 56) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

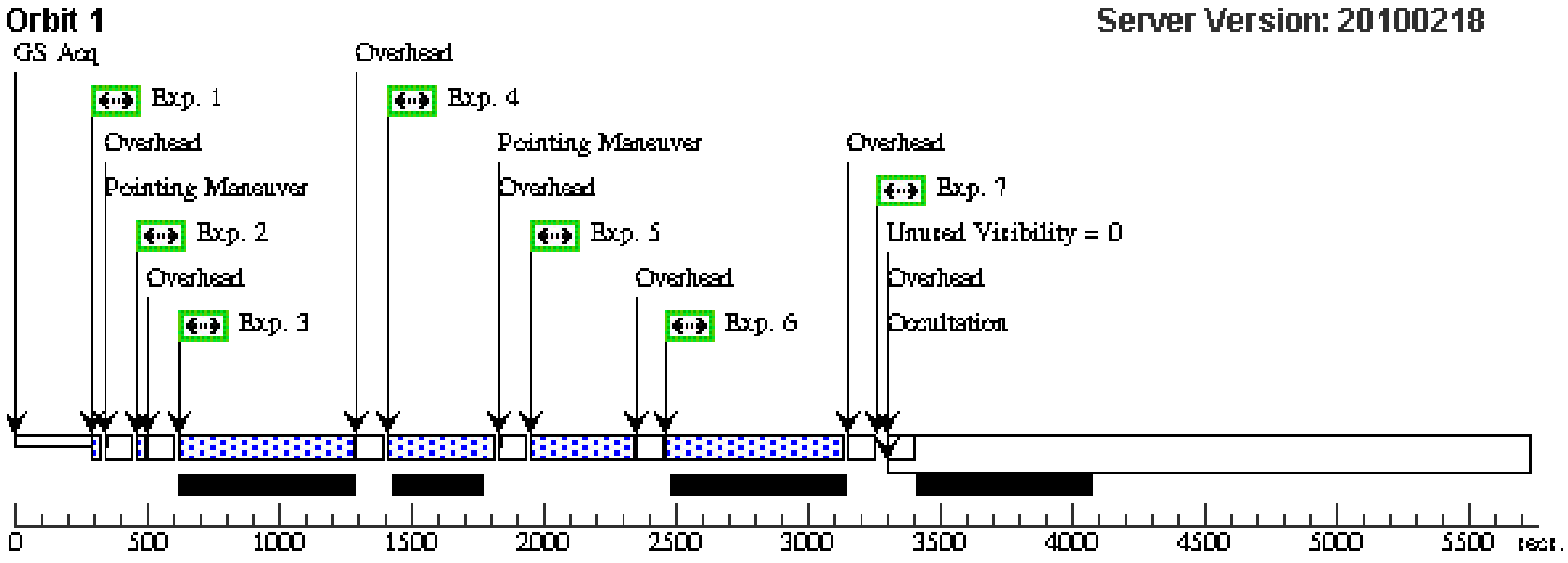
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	NGC6791	RA: 19 20 53.0000 (290.2208333d) Dec: +37 46 30.00 (37.77500d) Equinox: J2000		V=9.5+/-0.1	Reference Frame: ICRS

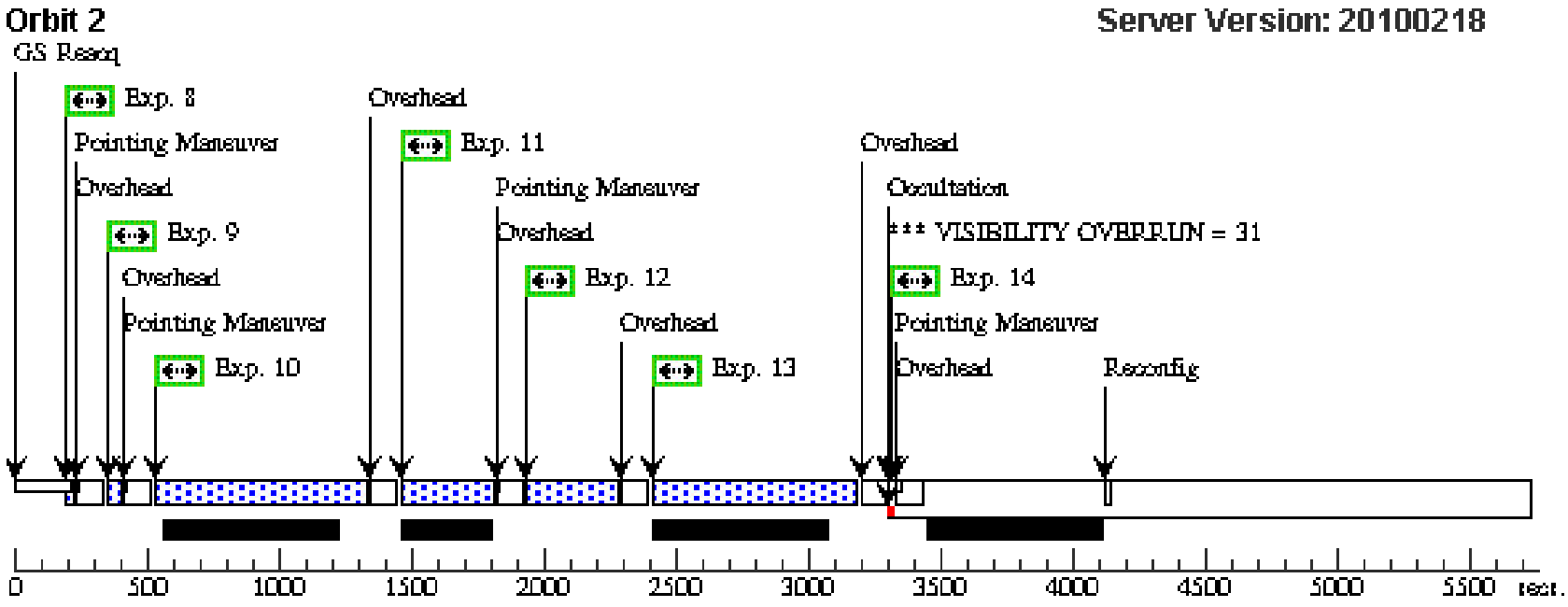
Exposures

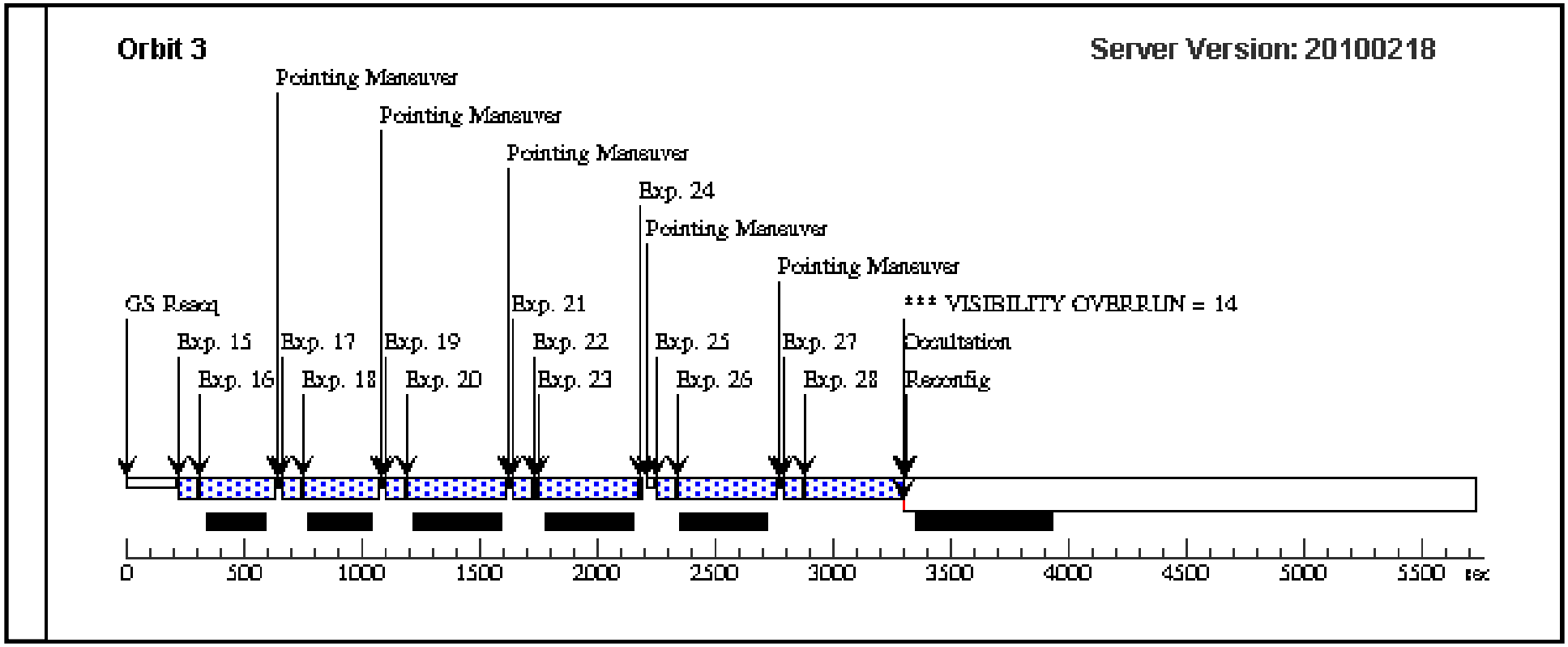
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	shortv1	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0,0		0.5 Secs	
								[==>]	***[1]***
2	mediumv2	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		30 Secs	
								[==>]	***[1]***
3	longv2	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		665 Secs	
								[==>]	***[1]***
4	longi2	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		390 Secs	
								[==>]	***[1]***
5	longi1	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0,0		390 Secs	
								[==>]	***[1]***
6	longv1	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W	CR-SPLIT=NO	POS TARG 0,0		665 Secs	
								[==>]	***[1]***
7	shorti1	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0,0		0.5 Secs	
								[==>]	***[1]***
8	shortc1	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		2 Secs	
								[==>]	***[2]***
9	mediumi2	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		30 Secs	
								[==>]	***[2]***
10	longc1	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		775 Secs	
								[==>]	***[2]***
11	mediumc1	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0,0		348 Secs	
								[==>]	***[2]***
12	mediumc2	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		348 Secs	
								[==>]	***[2]***
13	longc2	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		775 Secs	
								[==>]	***[2]***
14	shortc2	(11) NGC6791	WFC3/UVIS, ACCUM, UVIS-CENTER	F390W	CR-SPLIT=NO	POS TARG 0.07924, 0.08450		2 Secs	
								[==>]	***[2]***
15	fullUR1h	(11) NGC6791	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.20,15.70		*[==>]*	***[3]***
16	fullUR1j	(11) NGC6791	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=9	POS TARG 11.20,15.70		*[==>]*	***[3]***
17	fullUR2j	(11) NGC6791	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.742,15.8816		*[==>]*	***[3]***

	18	fullUR2h	(11) NGC6791	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=9	POS TARG 11.742,15.8816	*[==>]*	***[3]***
	19	fullUR3h	(11) NGC6791	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 11.5387, 16.1844	*[==>]*	***[3]***
	20	fullUR3j	(11) NGC6791	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG 11.5387, 16.1844	*[==>]*	***[3]***
	21	fullUR4j	(11) NGC6791	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	22	sub1j	(11) NGC6791	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F110W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	23	fullUR4h	(11) NGC6791	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	24	sub1h	(11) NGC6791	WFC3/IR, MULTIACCUM, IRSUB256-FIX	F160W	SAMP-SEQ=RAPID; NSAMP=15	POS TARG 10.9967, 16.0028	*[==>]*	***[3]***
	25	fullLL1h	(11) NGC6791	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG -9.3,-14.1	*[==>]*	***[3]***
	26	fullLL1j	(11) NGC6791	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG -9.3,-14.1	*[==>]*	***[3]***
	27	fullLL2j	(11) NGC6791	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP100; NSAMP=6	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***
	28	fullLL2h	(11) NGC6791	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP100; NSAMP=10	POS TARG -9.5033, -13.7973	*[==>]*	***[3]***

Orbit Structure




Orbit 2
Server Version: 20100218
GS Reacq
Exp. 8
Pointing Maneuver
Overhead
Exp. 9
Overhead
Pointing Maneuver
Exp. 10
Overhead
Exp. 11
Pointing Maneuver
Overhead
Exp. 12
Overhead
Exp. 13
Overhead
Occultation
*** VISIBILITY OVERRUN = 31
Exp. 14
Pointing Maneuver
Overhead
Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit 3
Server Version: 20100218
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Exp. 24
Pointing Maneuver
Pointing Maneuver
GS Reacq
Exp. 21
*** VISIBILITY OVERRUN = 14
Exp. 15
Exp. 17
Exp. 19
Exp. 22
Exp. 25
Exp. 27
Occultation
Exp. 16
Exp. 18
Exp. 20
Exp. 23
Exp. 26
Exp. 28
Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec