11956 - Hubble Heritage: Side B

Cycle: 16, Proposal Category: GO/DD

(Availability Mode: AVAILABLE)

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?*
1A	(1) ARP239	WFPC2	4	22-Apr-2009 21:40:41.0	yes
1B	(1) ARP239	WFPC2	6	22-Apr-2009 21:40:50.0	yes
2A	(2) ARP194	WFPC2	4	22-Apr-2009 21:41:01.0	yes
2B	(2) ARP194	WFPC2	4	22-Apr-2009 21:41:07.0	yes
3A	(3) NGC4911	WFPC2	4	22-Apr-2009 21:41:12.0	yes
3B	(3) NGC4911	WFPC2	2	22-Apr-2009 21:41:15.0	yes
3C	(7) NGC4911-REPEAT	WFPC2	4	22-Apr-2009 21:41:18.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
04	(4) IC289	WFPC2	5	22-Apr-2009 21:41:25.0	yes
05	(5) NGC1501	WFPC2	5	22-Apr-2009 21:41:36.0	yes
06	(6) NGC2818	WFPC2	5	22-Apr-2009 21:41:44.0	yes
31	(8) SATURN-TITAN	WFPC2	1	22-Apr-2009 21:41:51.0	yes
32	(8) SATURN-TITAN	WFPC2	1	22-Apr-2009 21:41:56.0	yes
33	(8) SATURN-TITAN	WFPC2	1	22-Apr-2009 21:42:03.0	yes
91	(9) K4-55 DARK	WFPC2	4	22-Apr-2009 21:42:11.0	yes

50 Total Orbits Used

ABSTRACT

We propose a program of 39 orbits to observe 6 targets with WFPC2 following a successful return to science using side B electronics. These observations will be used for Hubble Heritage releases in the months leading up to servicing mission 4. Because of launch delays, our reserve of releasable images is growing dangerously slim. We are proposing here to replenish one of our important lines of communication with the public.

We have carefully chosen targets that can efficiently use single pointings of WFPC2 to obtain images of visually striking and astrophysically interesting targets. Observations will reach high S/N and will be dithered and subsampled to improve the resolution and pixel scale to near ACS/WFC3 quality at a modest cost in exposure time. Most of the observations will schedule in the interim between a return to science and the availability of new science proposals that may be selected in response to an interim call for proposals.

OBSERVING DESCRIPTION

We will observe six different targets, 3 interacting galaxies and 3 planetary nebulae, with WFPC2. Observations will be made in a variety of filters with an emphasis on obtaining high S/N. Dithering will be used where appropriate.

Visit

Proposal 11956, Visit 1A, withdrawn Thu Apr 23 01:42:15 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: ORIENT 260D TO 260 D

Patterns

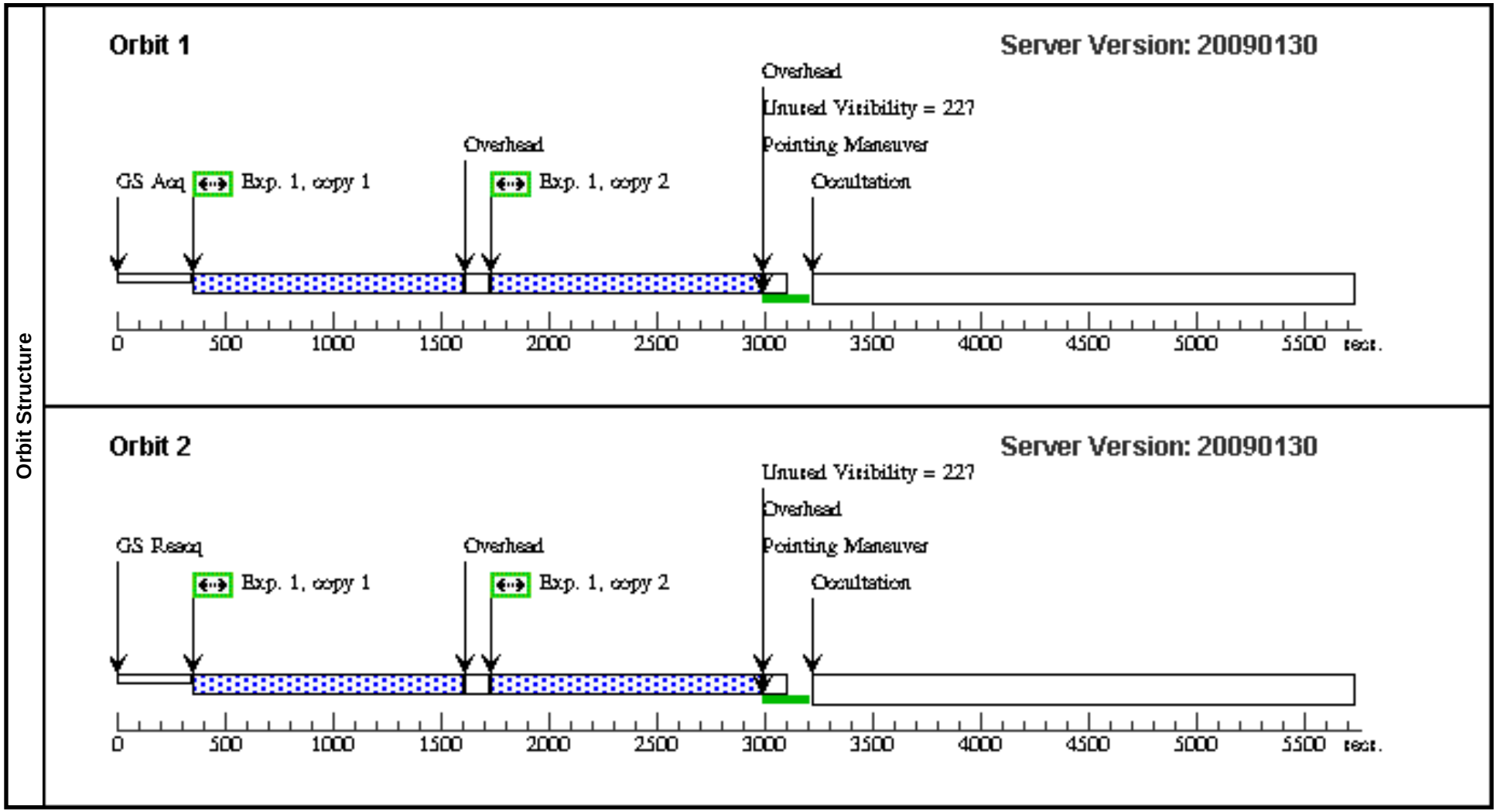
#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)

Fixed Targets

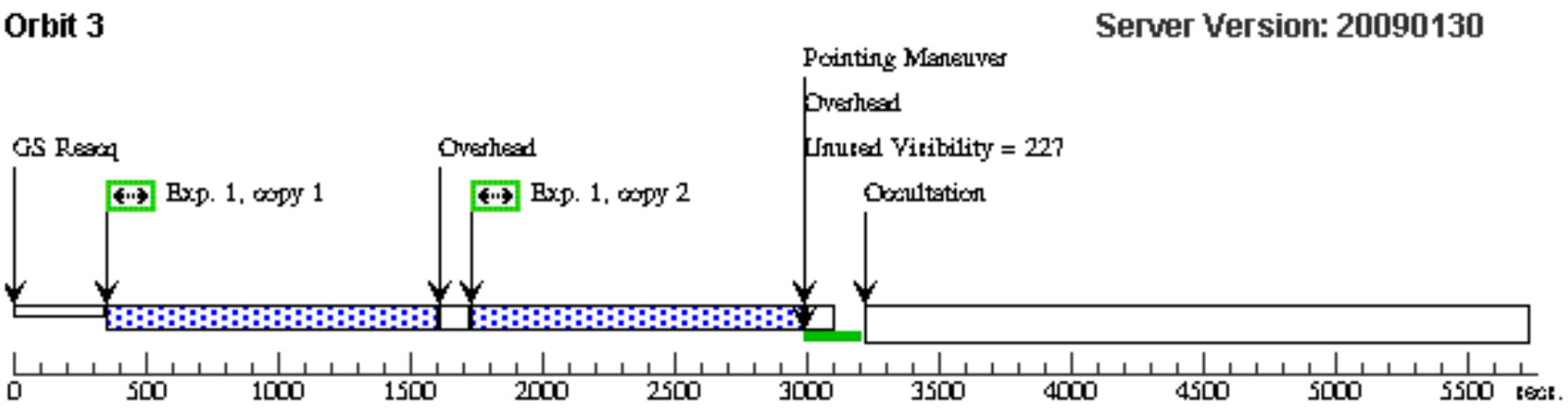
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	ARP239	RA: 13 41 41.7000 (205.4237500d) Dec: +55 40 20.00 (55.67222d) Equinox: J2000		V=13.6+/-0.2	Reference Frame: ICRS

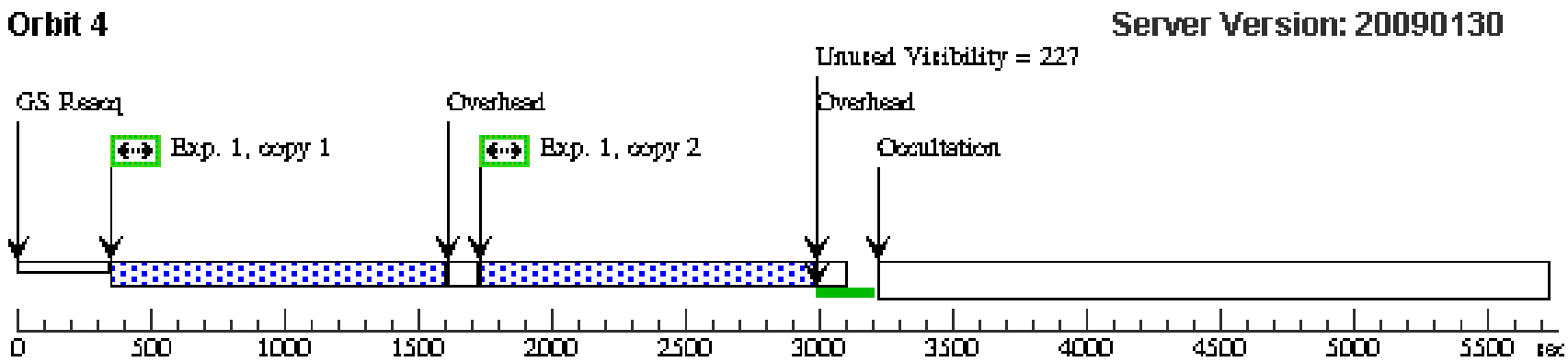
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) ARP239	WFPC2, IMAGE, WF3-FIX	F450W	CLOCKS=YES; CR-SPLIT=NO	GS ACQ SCENARIO BASE1T3	Pattern 3, Exps 1-1 (3)	1100 Secs X 2	
								[==>(Pattern 1, Copy 1)] *[==>(Pattern 1, Copy 2)]*	***[1]***
								[==>(Pattern 2, Copy 1)] *[==>(Pattern 2, Copy 2)]*	***[2]***
								[==>(Pattern 3, Copy 1)] *[==>(Pattern 3, Copy 2)]*	***[3]***
								[==>(Pattern 4, Copy 1)] *[==>(Pattern 4, Copy 2)]*	***[4]***


Orbit Structure
Orbit 1
Server Version: 20090130
Overhead
Unused Visibility = 227
Pointing Maneuver
Overhead
GS Acq
Exp. 1, copy 1
Exp. 1, copy 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.
Orbit 2
Server Version: 20090130
Unused Visibility = 227
Overhead
Pointing Maneuver
GS Reacq
Overhead
Exp. 1, copy 1
Exp. 1, copy 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.

Orbit Structure (continued)





Visit

Proposal 11956, Visit 1B, withdrawn Thu Apr 23 01:42:16 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: SAME ORIENT AS 1A

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1), (2), (3)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	ARP239	RA: 13 41 41.7000 (205.4237500d) Dec: +55 40 20.00 (55.67222d) Equinox: J2000		V=13.6+/-0.2	Reference Frame: ICRS

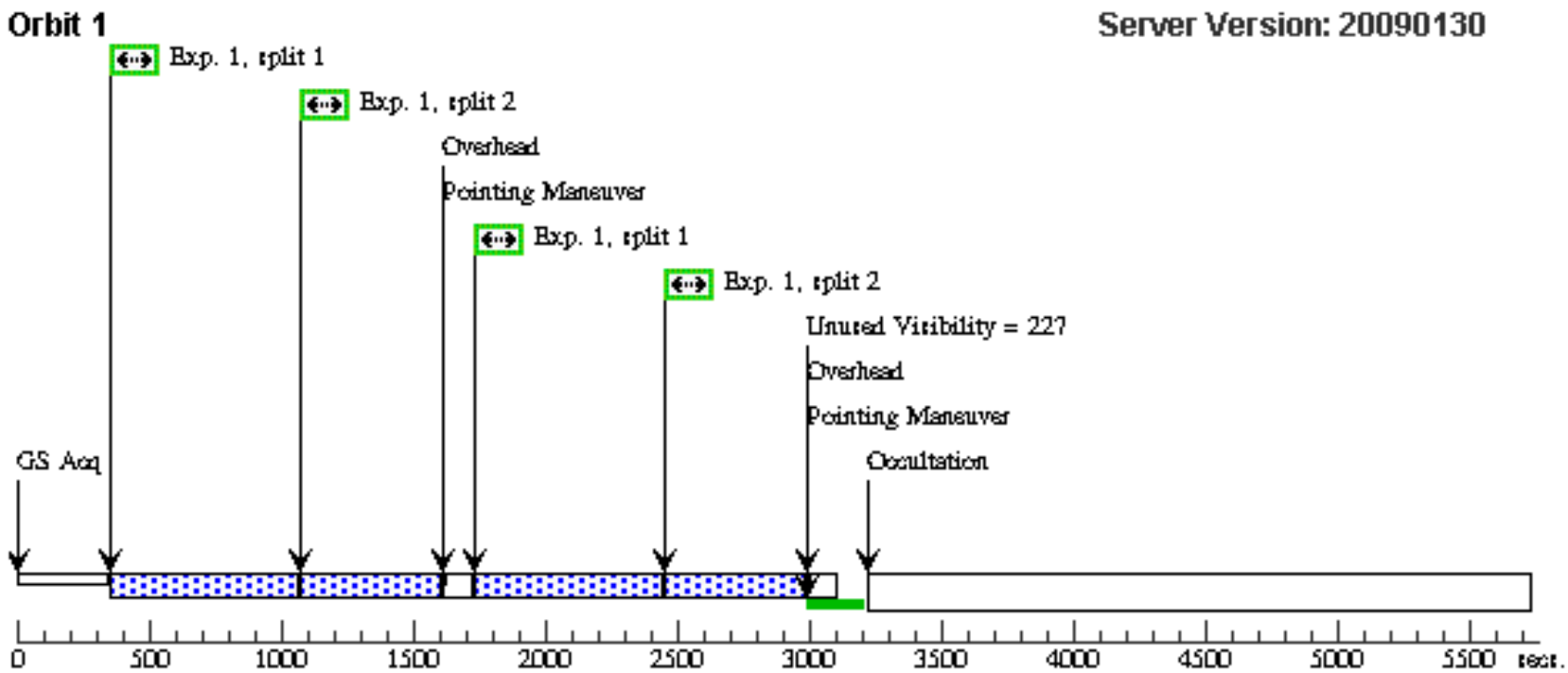
Exposures

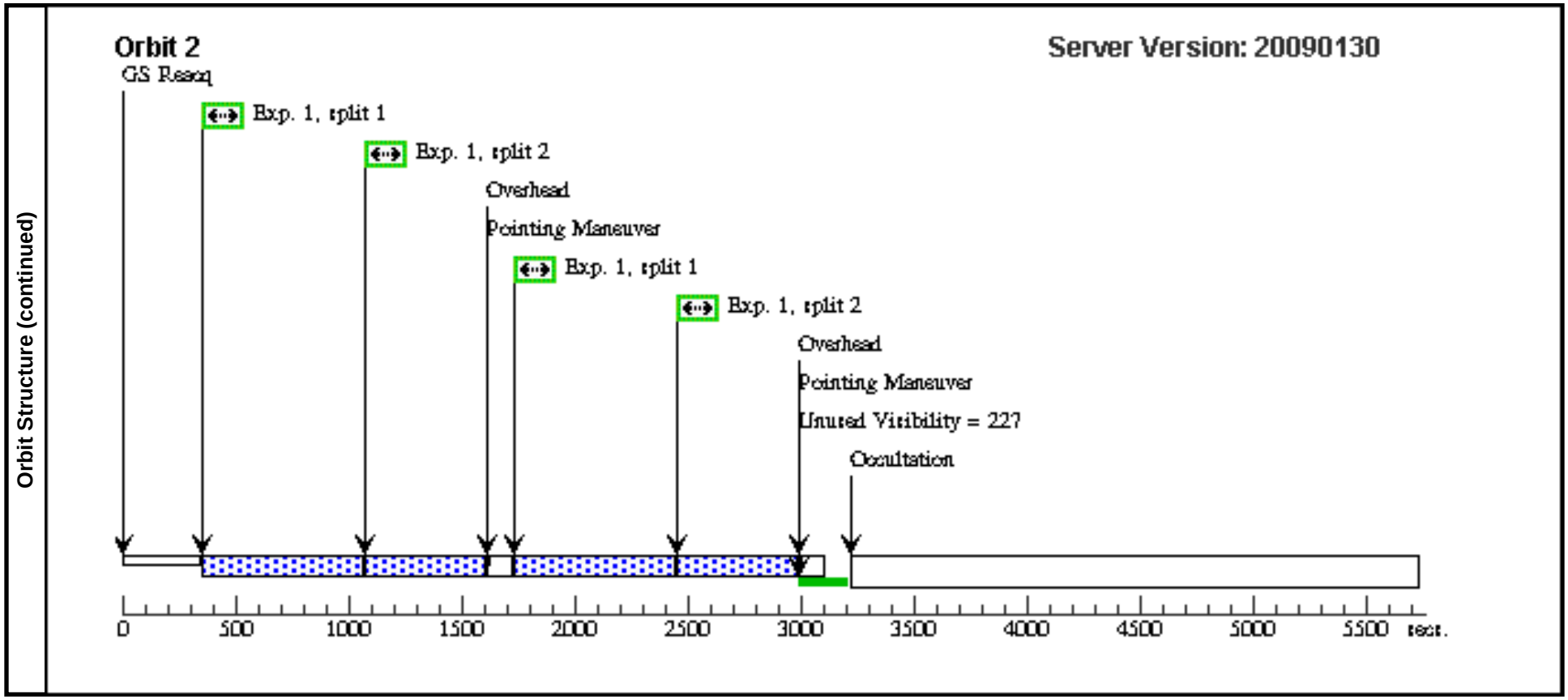
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) ARP239	WFPC2, IMAGE, WF3-FIX	F606W	CLOCKS=YES; CR-SPLIT=DEF	GS ACQ SCENARIO BASE1T3	Pattern 3, Exps 1-1 (3)	1000 Secs	
								[==>(Pattern 1, Split 1)] *[==>(Pattern 1, Split 2)]* *[==>(Pattern 2, Split 1)]* *[==>(Pattern 2, Split 2)]*	***[1]***
								[==>(Pattern 3, Split 1)] *[==>(Pattern 3, Split 2)]* *[==>(Pattern 4, Split 1)]* *[==>(Pattern 4, Split 2)]*	***[2]***
2		(1) ARP239	WFPC2, IMAGE, WF3-FIX	F673N	CLOCKS=YES; CR-SPLIT=DEF		Pattern 3, Exps 2-2 (3)	1000 Secs	
								[==>(Pattern 1, Split 1)] *[==>(Pattern 1, Split 2)]* *[==>(Pattern 2, Split 1)]* *[==>(Pattern 2, Split 2)]*	***[3]***
								[==>(Pattern 3, Split 1)] *[==>(Pattern 3, Split 2)]* *[==>(Pattern 4, Split 1)]* *[==>(Pattern 4, Split 2)]*	***[4]***

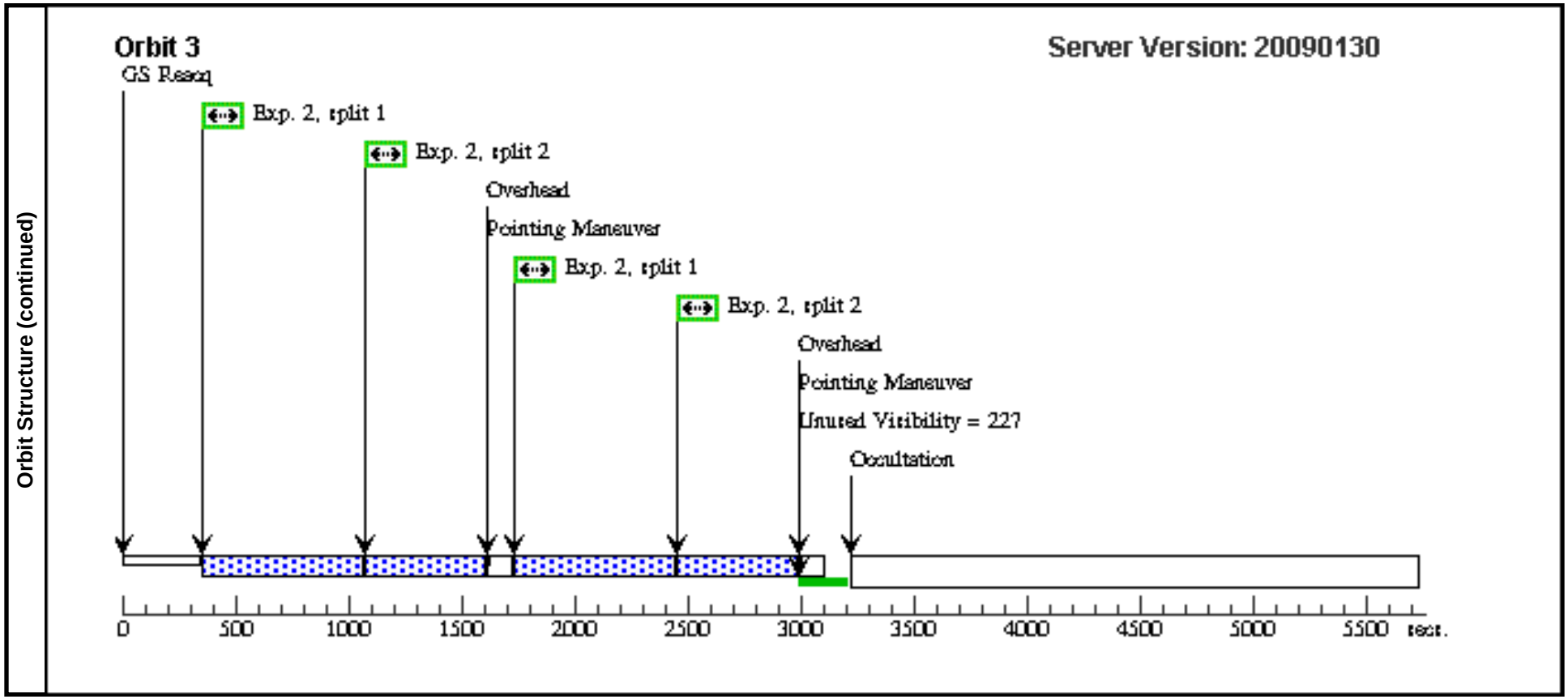
Exposures (continued)

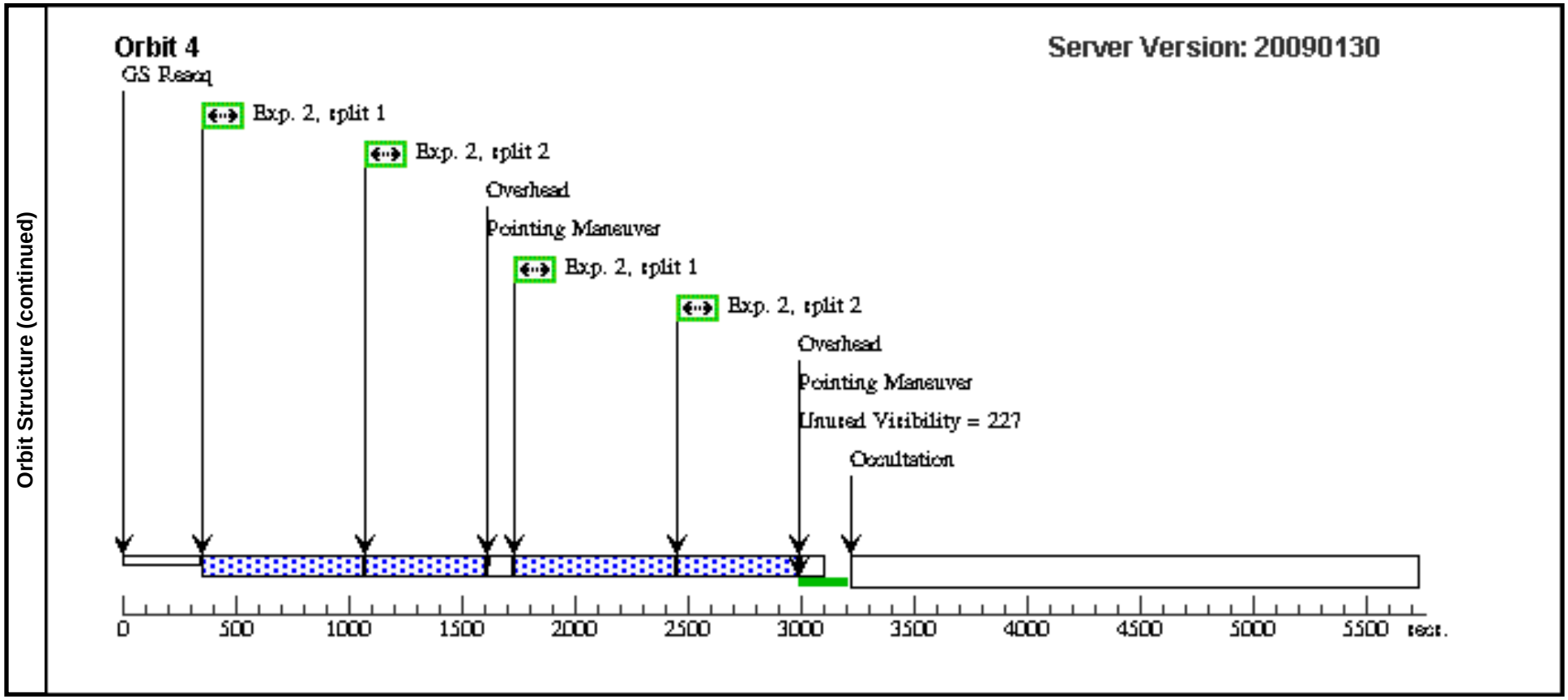
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
3		(1) ARP239	WFPC2, IMAGE, WF3-FIX	F814W	CLOCKS=YES; CR-SPLIT=DEF		Pattern 3, Exps 3-3 (3)	1000 Secs	
								[==>(Pattern 1, Split 1)] *[==>(Pattern 1, Split 2)]* *[==>(Pattern 2, Split 1)]* *[==>(Pattern 2, Split 2)]*	***[5]***
								[==>(Pattern 3, Split 1)] *[==>(Pattern 3, Split 2)]* *[==>(Pattern 4, Split 1)]* *[==>(Pattern 4, Split 2)]*	***[6]***

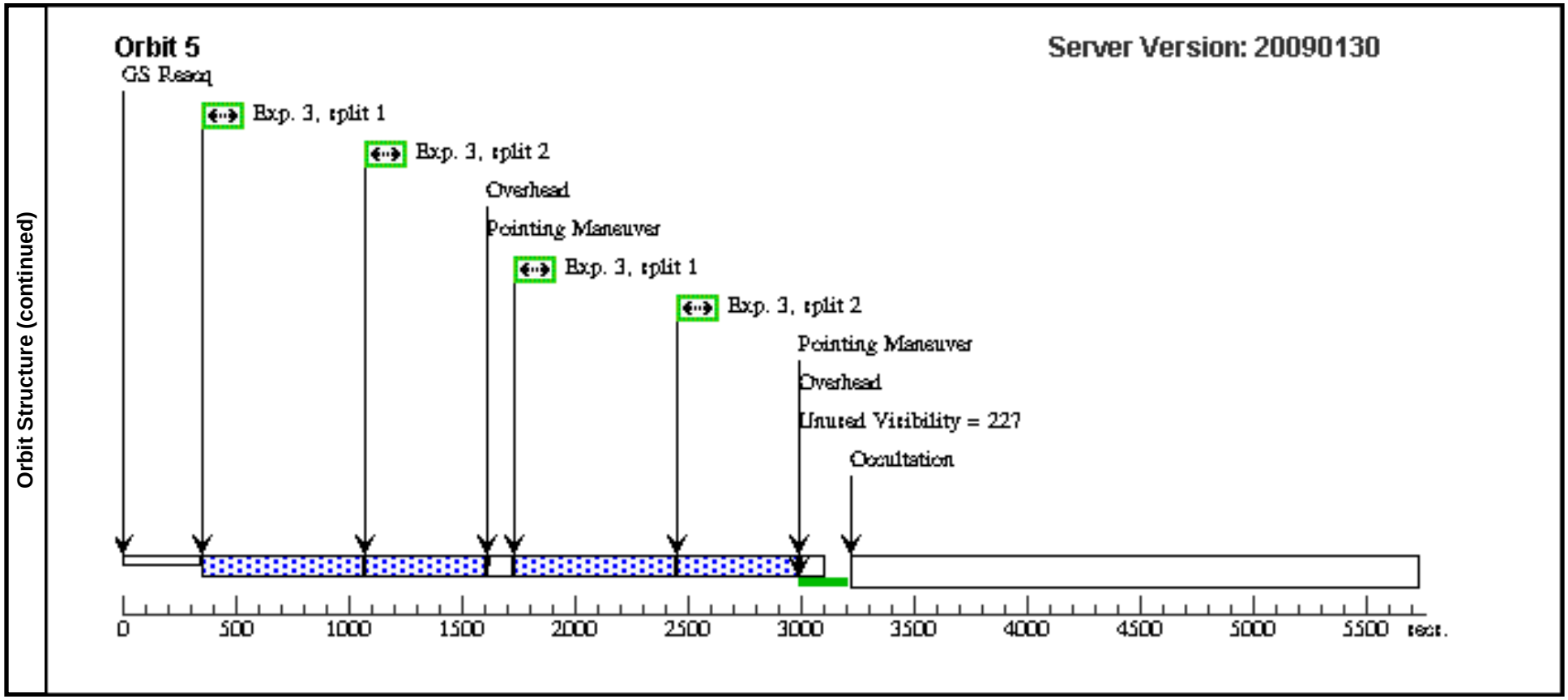
Orbit Structure

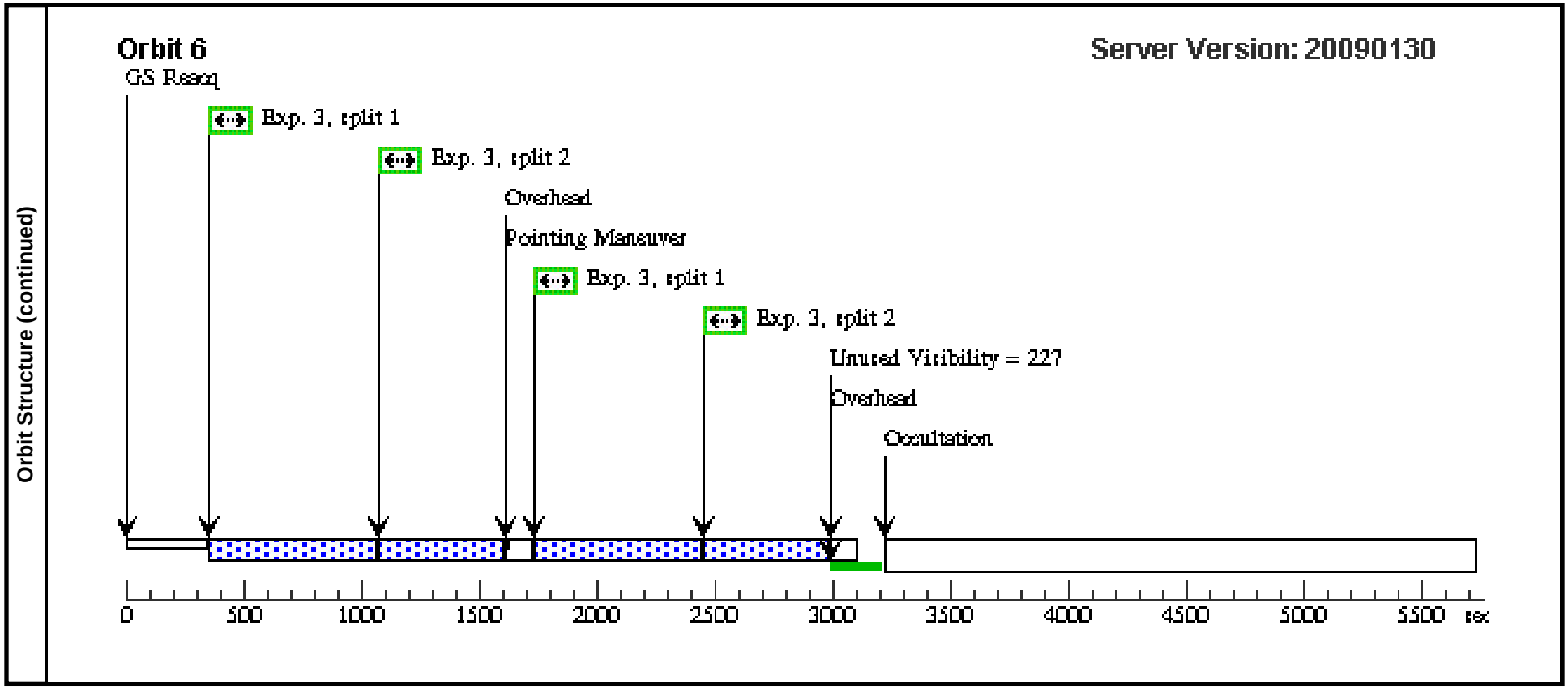



Orbit Structure (continued)
Orbit 2
Server Version: 20090130
GS Reacq
Exp. 1, split 1
Exp. 1, split 2
Overhead
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
Overhead
Pointing Maneuver
Unused Visibility = 227
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit Structure (continued)
Orbit 3
Server Version: 20090130
GS Reacq
Exp. 2, split 1
Exp. 2, split 2
Overhead
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Overhead
Pointing Maneuver
Unused Visibility = 227
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit Structure (continued)
Orbit 4
Server Version: 20090130
GS Reacq
Exp. 2, split 1
Exp. 2, split 2
Overhead
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Overhead
Pointing Maneuver
Unused Visibility = 227
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit Structure (continued)
Orbit 5
Server Version: 20090130
GS Reacq
Exp. 3, split 1
Exp. 3, split 2
Overhead
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Pointing Maneuver
Overhead
Unused Visibility = 227
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit Structure (continued)
Orbit 6
Server Version: 20090130
GS Reacq
Exp. 3, split 1
Exp. 3, split 2
Overhead
Pointing Maneuver
Exp. 3, split 1
Exp. 3, split 2
Unused Visibility = 227
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11956, Visit 2A, completed Thu Apr 23 01:42:17 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: ORIENT 280D TO 280 D

Patterns

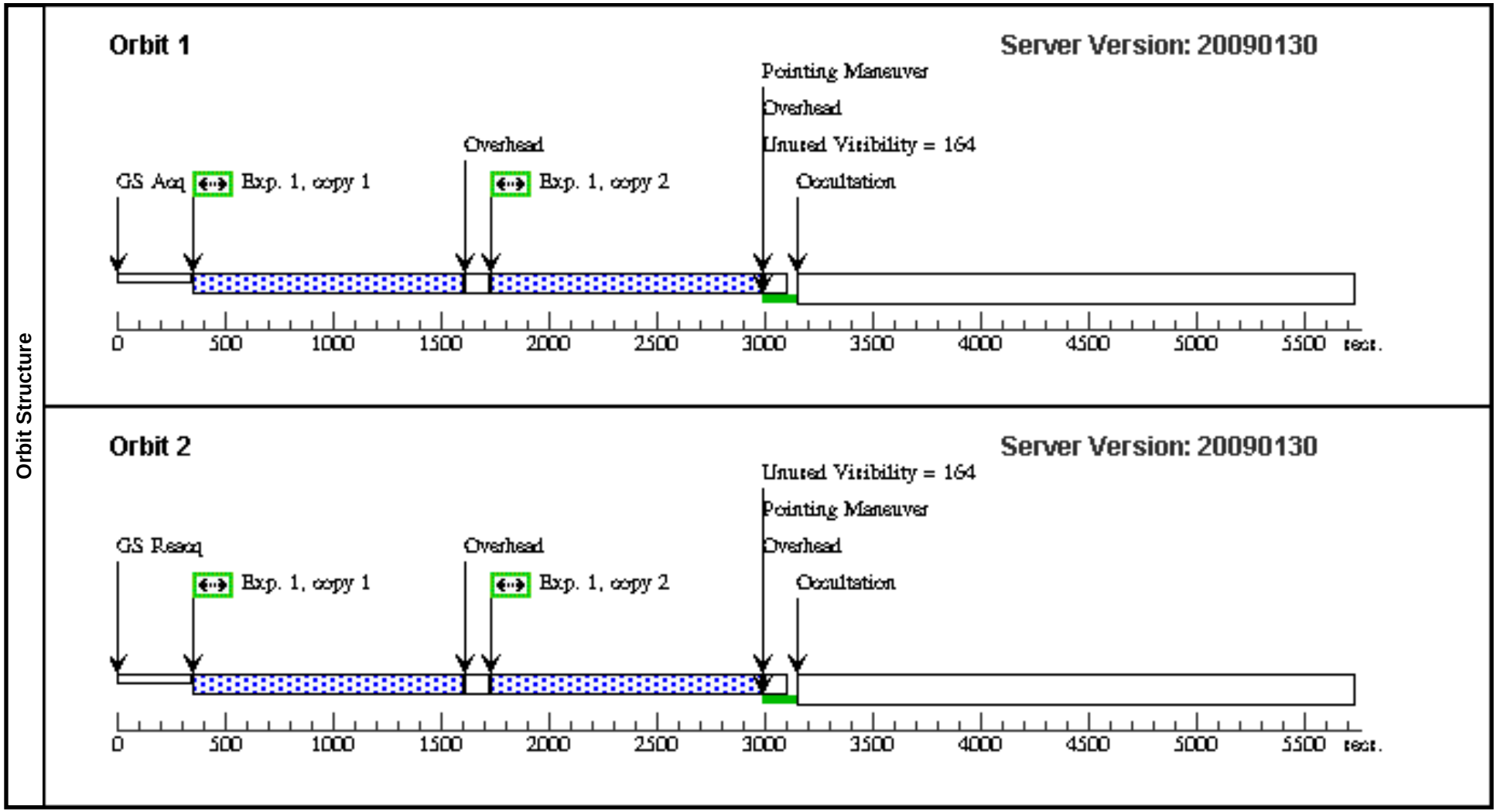
#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)

Fixed Targets

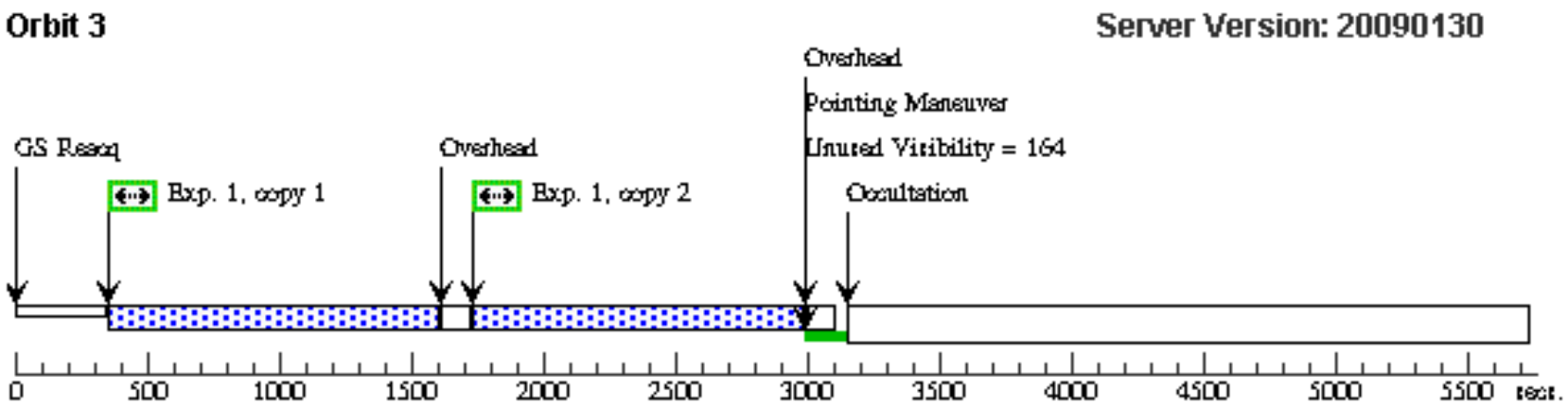
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	ARP194	RA: 11 57 57.2045 (179.4883521d) Dec: +36 22 46.98 (36.37972d) Equinox: J2000		V=15.1+/-0.2	Reference Frame: ICRS

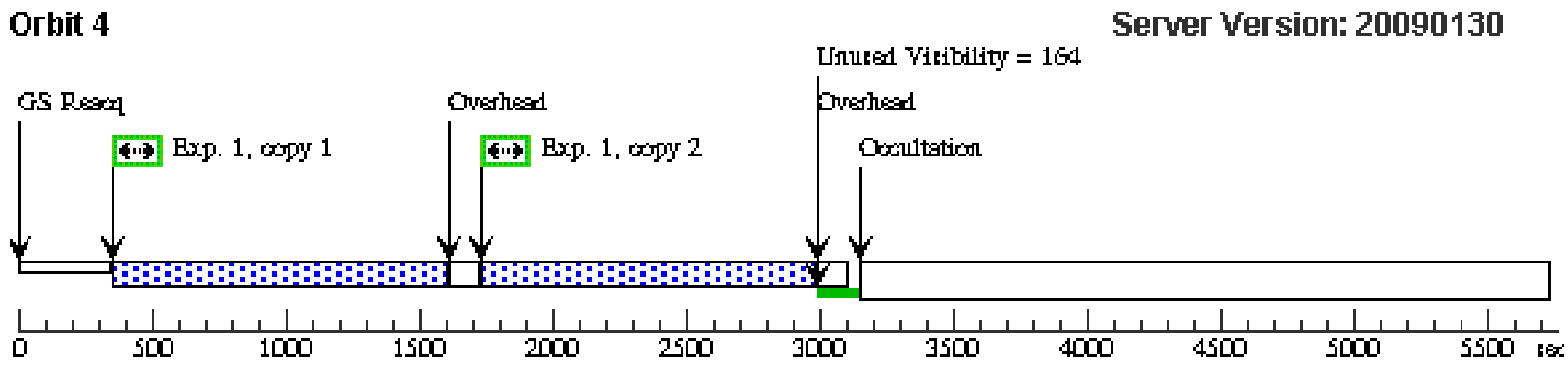
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(2) ARP194	WFPC2, IMAGE, WF3-FIX	F450W	CLOCKS=YES; CR-SPLIT=NO	GS ACQ SCENARIO BASE1T3	Pattern 3, Exps 1-1 (3)	1100 Secs X 2	
								[==>(Pattern 1, Copy 1)] *[==>(Pattern 1, Copy 2)]*	***[1]***
								[==>(Pattern 2, Copy 1)] *[==>(Pattern 2, Copy 2)]*	***[2]***
								[==>(Pattern 3, Copy 1)] *[==>(Pattern 3, Copy 2)]*	***[3]***
								[==>(Pattern 4, Copy 1)] *[==>(Pattern 4, Copy 2)]*	***[4]***


Orbit Structure
Orbit 1
Server Version: 20090130
Pointing Maneuver
Overhead
Unused Visibility = 164
Overhead
GS Acq
Exp. 1, copy 1
Exp. 1, copy 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.
Orbit 2
Server Version: 20090130
Unused Visibility = 164
Pointing Maneuver
Overhead
GS Reacq
Overhead
Exp. 1, copy 1
Exp. 1, copy 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.

Orbit Structure (continued)





Visit

Proposal 11956, Visit 2B, completed Thu Apr 23 01:42:18 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: ORIENT 280D TO 280 D

Patterns

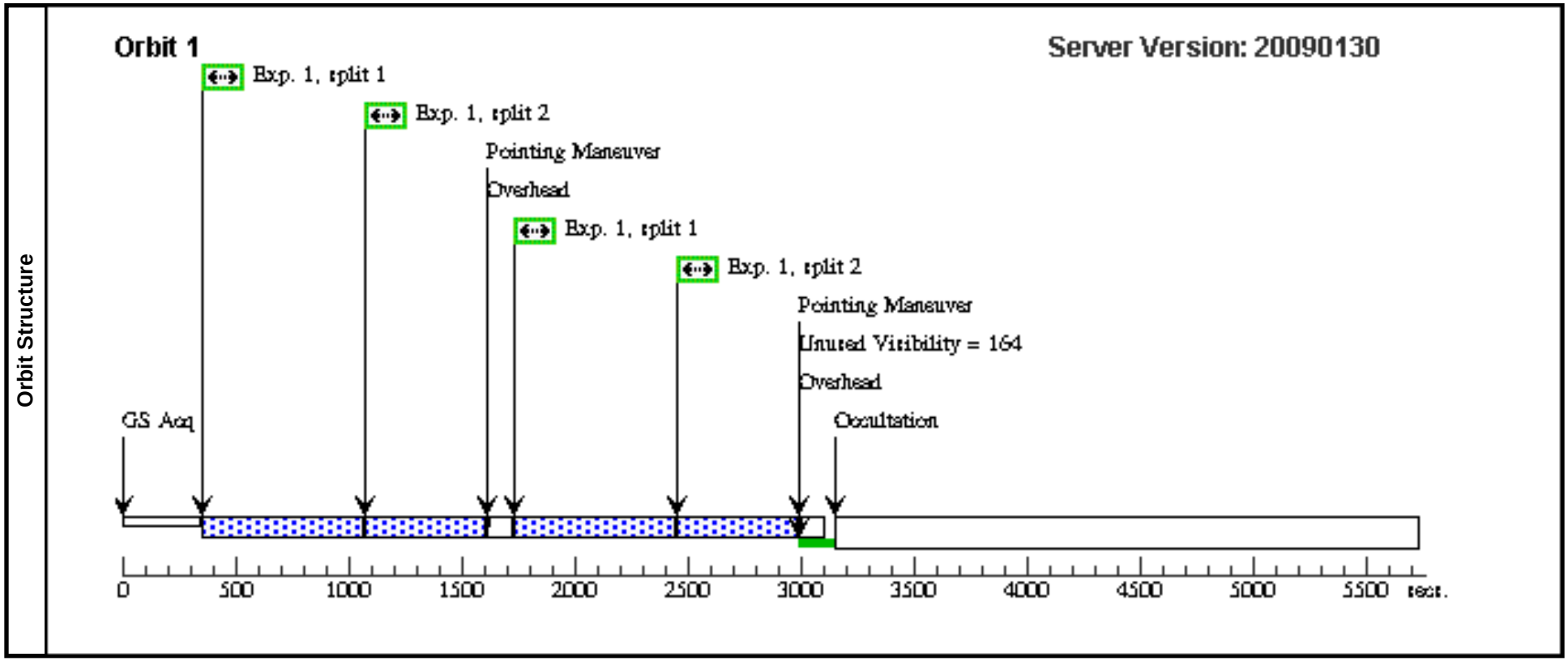
#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1), (2)

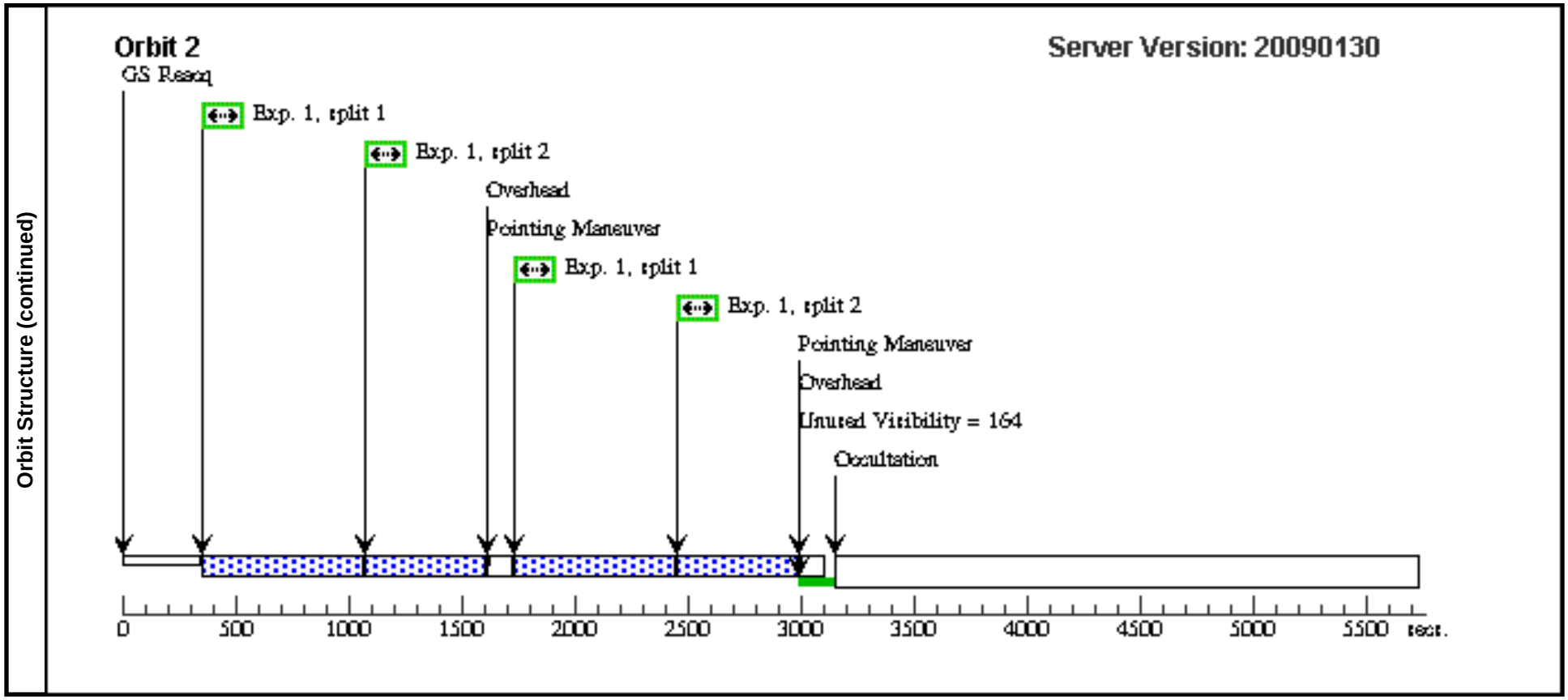
Fixed Targets

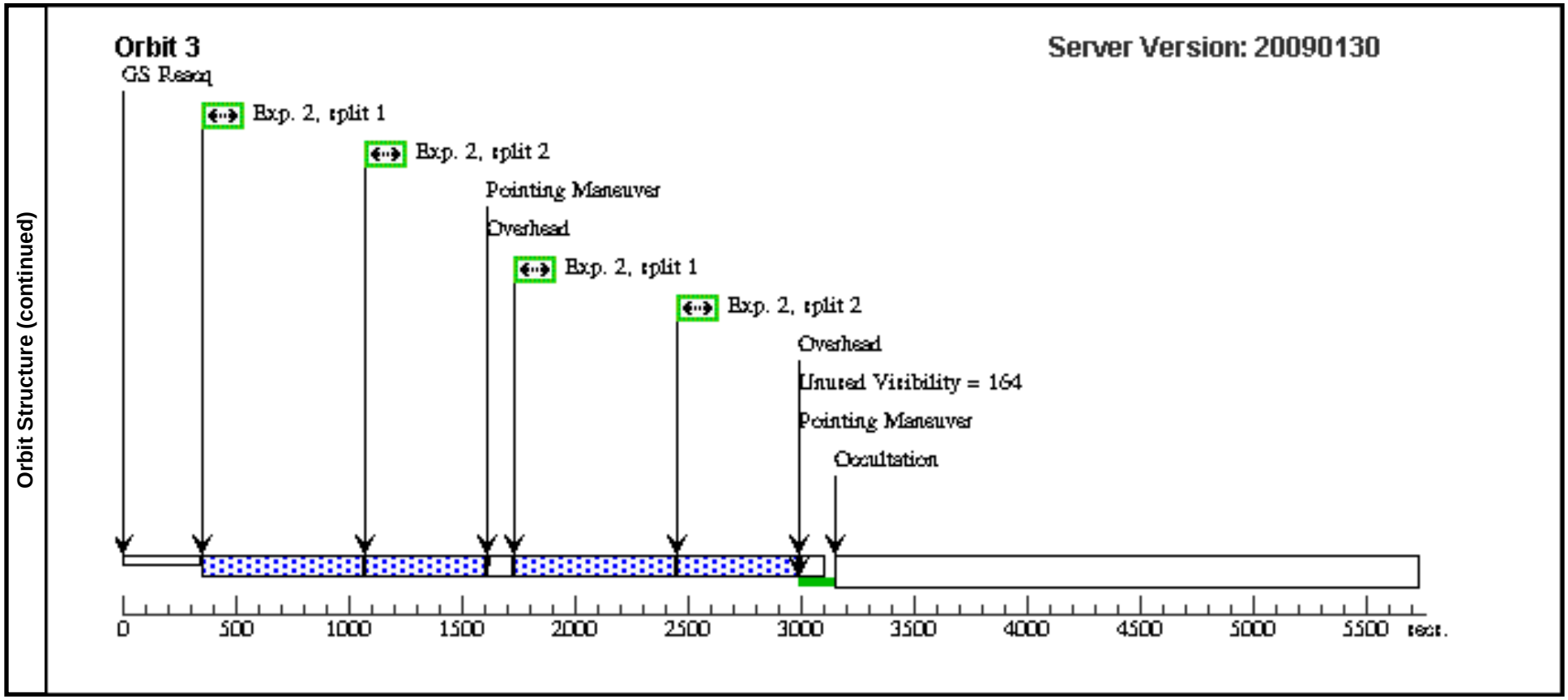
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	ARP194	RA: 11 57 57.2045 (179.4883521d) Dec: +36 22 46.98 (36.37972d) Equinox: J2000		V=15.1+/-0.2	Reference Frame: ICRS

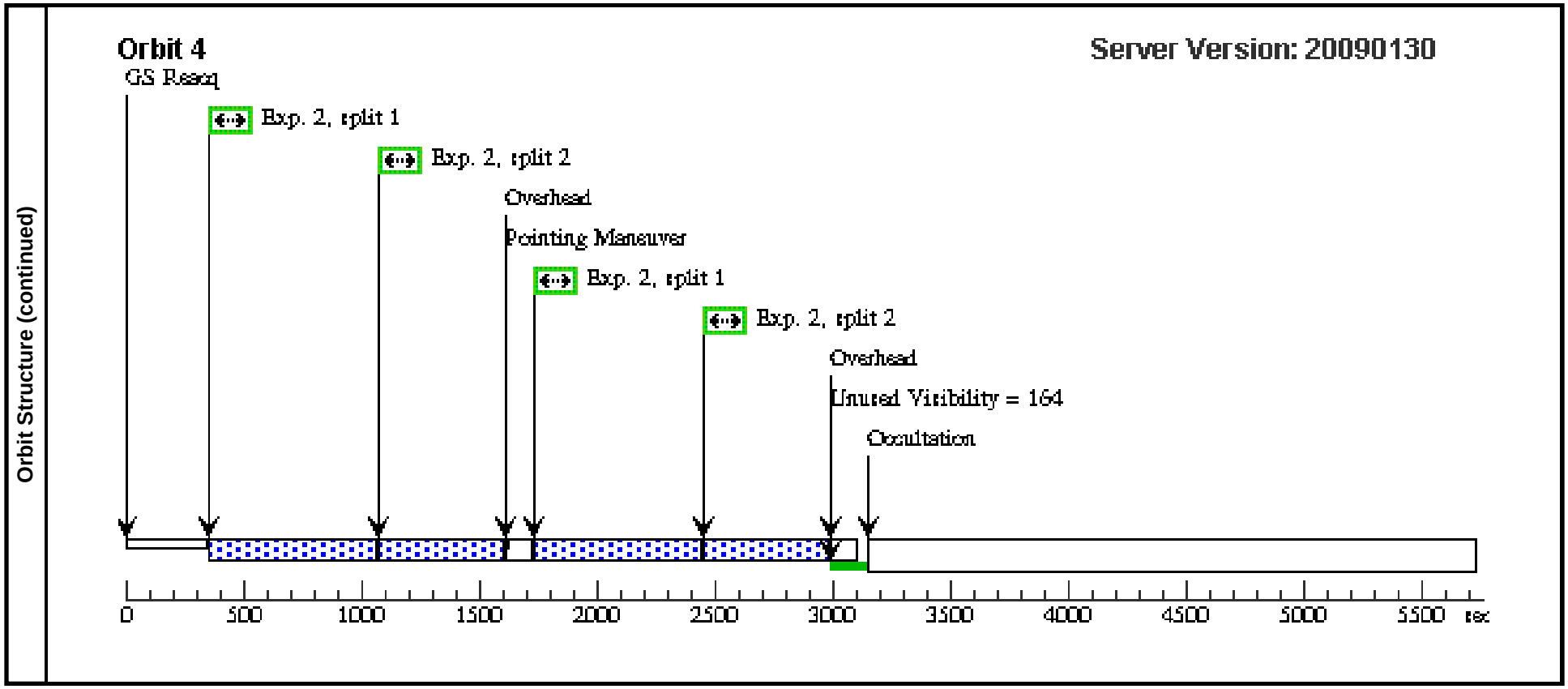
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(2) ARP194	WFPC2, IMAGE, WF3-FIX	F606W	CLOCKS=YES; CR-SPLIT=DEF	GS ACQ SCENARIO BASE1T3	Pattern 3, Exps 1-1 (3)	1000 Secs	
								[==>(Pattern 1, Split 1)] *[==>(Pattern 1, Split 2)]* *[==>(Pattern 2, Split 1)]* *[==>(Pattern 2, Split 2)]*	***[1]***
								[==>(Pattern 3, Split 1)] *[==>(Pattern 3, Split 2)]* *[==>(Pattern 4, Split 1)]* *[==>(Pattern 4, Split 2)]*	***[2]***
2		(2) ARP194	WFPC2, IMAGE, WF3-FIX	F814W	CLOCKS=YES; CR-SPLIT=DEF		Pattern 3, Exps 2-2 (3)	1000 Secs	
								[==>(Pattern 1, Split 1)] *[==>(Pattern 1, Split 2)]* *[==>(Pattern 2, Split 1)]* *[==>(Pattern 2, Split 2)]*	***[3]***
								[==>(Pattern 3, Split 1)] *[==>(Pattern 3, Split 2)]* *[==>(Pattern 4, Split 1)]* *[==>(Pattern 4, Split 2)]*	***[4]***


Orbit Structure
Orbit 1
Server Version: 20090130
Exp. 1, split 1
Exp. 1, split 2
Pointing Maneuver
Overhead
Exp. 1, split 1
Exp. 1, split 2
Pointing Maneuver
Unused Visibility = 164
Overhead
GS Acq
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit Structure (continued)
Orbit 2
Server Version: 20090130
GS Reacq
Exp. 1, split 1
Exp. 1, split 2
Overhead
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
Pointing Maneuver
Overhead
Unused Visibility = 164
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit Structure (continued)
Orbit 3
Server Version: 20090130
GS Reacq
Exp. 2, split 1
Exp. 2, split 2
Pointing Maneuver
Overhead
Exp. 2, split 1
Exp. 2, split 2
Overhead
Unused Visibility = 164
Pointing Maneuver
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit Structure (continued)
Orbit 4
Server Version: 20090130
GS Reacq
Exp. 2, split 1
Exp. 2, split 2
Overhead
Pointing Maneuver
Exp. 2, split 1
Exp. 2, split 2
Overhead
Unused Visibility = 164
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11956, Visit 3A, failed Thu Apr 23 01:42:19 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: ORIENT 280D TO 280 D

Patterns

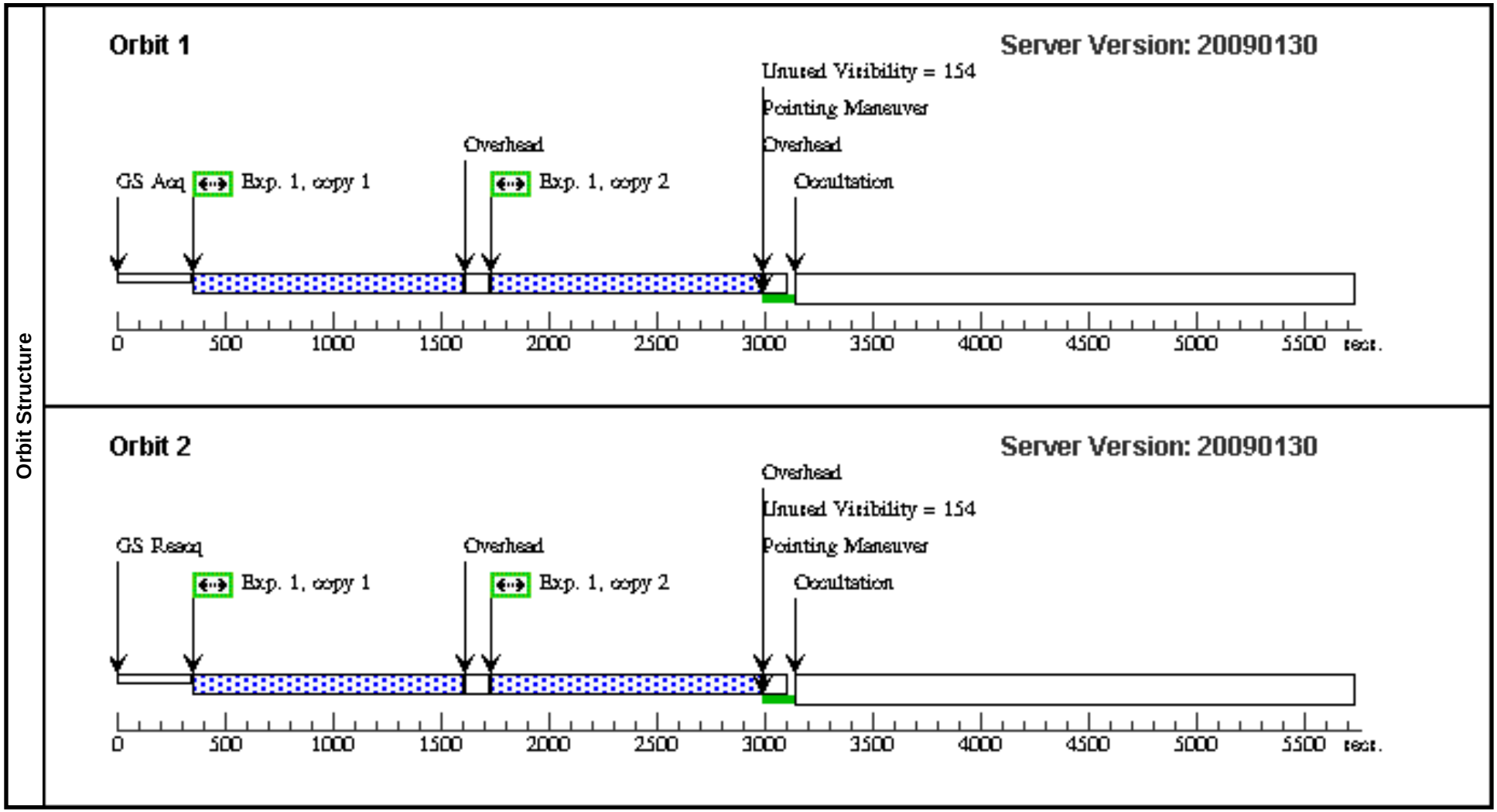
#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)

Fixed Targets

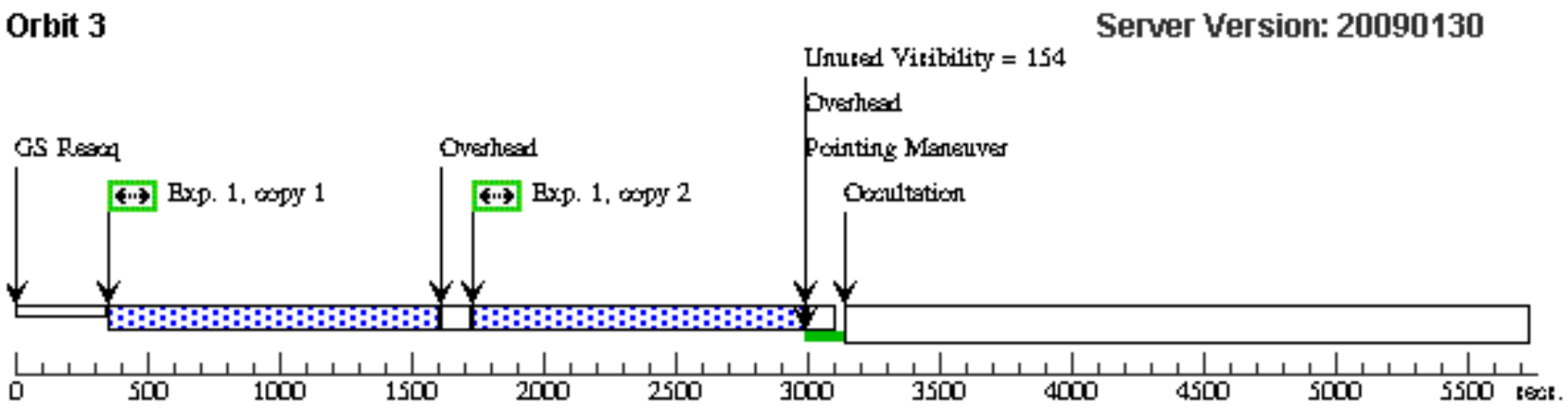
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	NGC4911	RA: 13 00 57.2175 (195.2384062d) Dec: +27 47 31.97 (27.79221d) Equinox: J2000		V=13.55+/-0.2	Reference Frame: ICRS

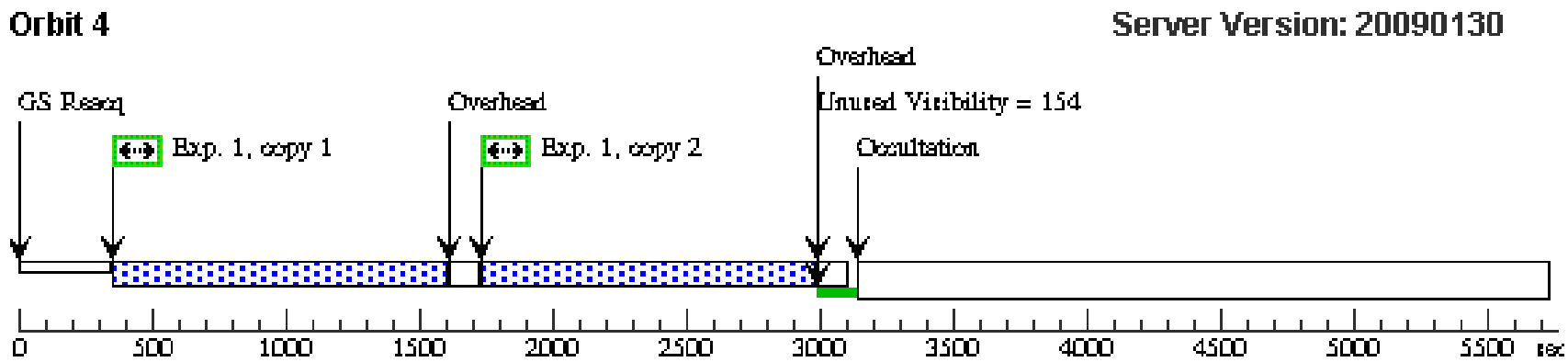
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(3) NGC4911	WFPC2, IMAGE, WF3-FIX	F450W	CLOCKS=YES; CR-SPLIT=NO	GS ACQ SCENARIO BASE1T3	Pattern 3, Exps 1-1 (3)	1100 Secs X 2	
								[==>(Pattern 1, Copy 1)] *[==>(Pattern 1, Copy 2)]*	***[1]***
								[==>(Pattern 2, Copy 1)] *[==>(Pattern 2, Copy 2)]*	***[2]***
								[==>(Pattern 3, Copy 1)] *[==>(Pattern 3, Copy 2)]*	***[3]***
								[==>(Pattern 4, Copy 1)] *[==>(Pattern 4, Copy 2)]*	***[4]***


Orbit Structure
Orbit 1
Server Version: 20090130
Unused Visibility = 154
Pointing Maneuver
Overhead
Overhead
GS Acq
Exp. 1, copy 1
Exp. 1, copy 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.
Orbit 2
Server Version: 20090130
Overhead
Unused Visibility = 154
Pointing Maneuver
GS Reacq
Overhead
Exp. 1, copy 1
Exp. 1, copy 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.

Orbit Structure (continued)





Visit

Proposal 11956, Visit 3B, completed Thu Apr 23 01:42:19 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: ORIENT 280D TO 280 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)

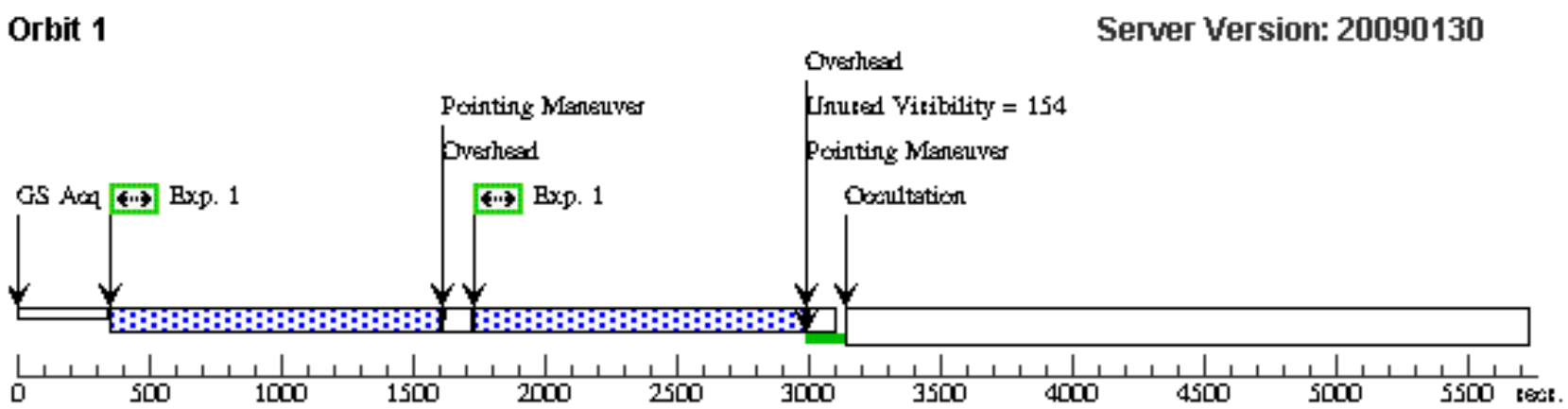
Fixed Targets

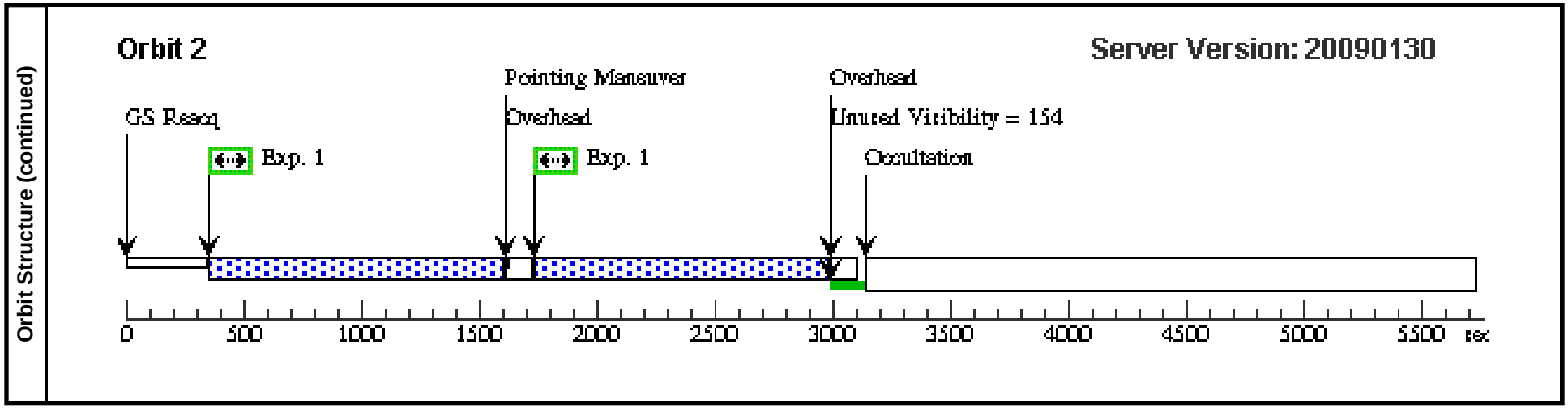
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	NGC4911	RA: 13 00 57.2175 (195.2384062d) Dec: +27 47 31.97 (27.79221d) Equinox: J2000		V=13.55+/-0.2	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(3) NGC4911	WFPC2, IMAGE, WF3-FIX	F673N	CLOCKS=YES; CR-SPLIT=NO	GS ACQ SCENARIO BASE1T3	Pattern 3, Exps 1-1 (3)	1100 Secs	
								[==>(Pattern 1)] *[==>(Pattern 2)]*	*[1]*
								[==>(Pattern 3)] *[==>(Pattern 4)]*	*[2]*

Orbit Structure




Orbit Structure (continued)
Orbit 2
Server Version: 20090130
Pointing Maneuver
Overhead
GS Reacq
Overhead
Unused Visibility = 154
Exp. 1
Exp. 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11956, Visit 3C, completed Thu Apr 23 01:42:20 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: ORIENT 260D TO 268 D

Patterns

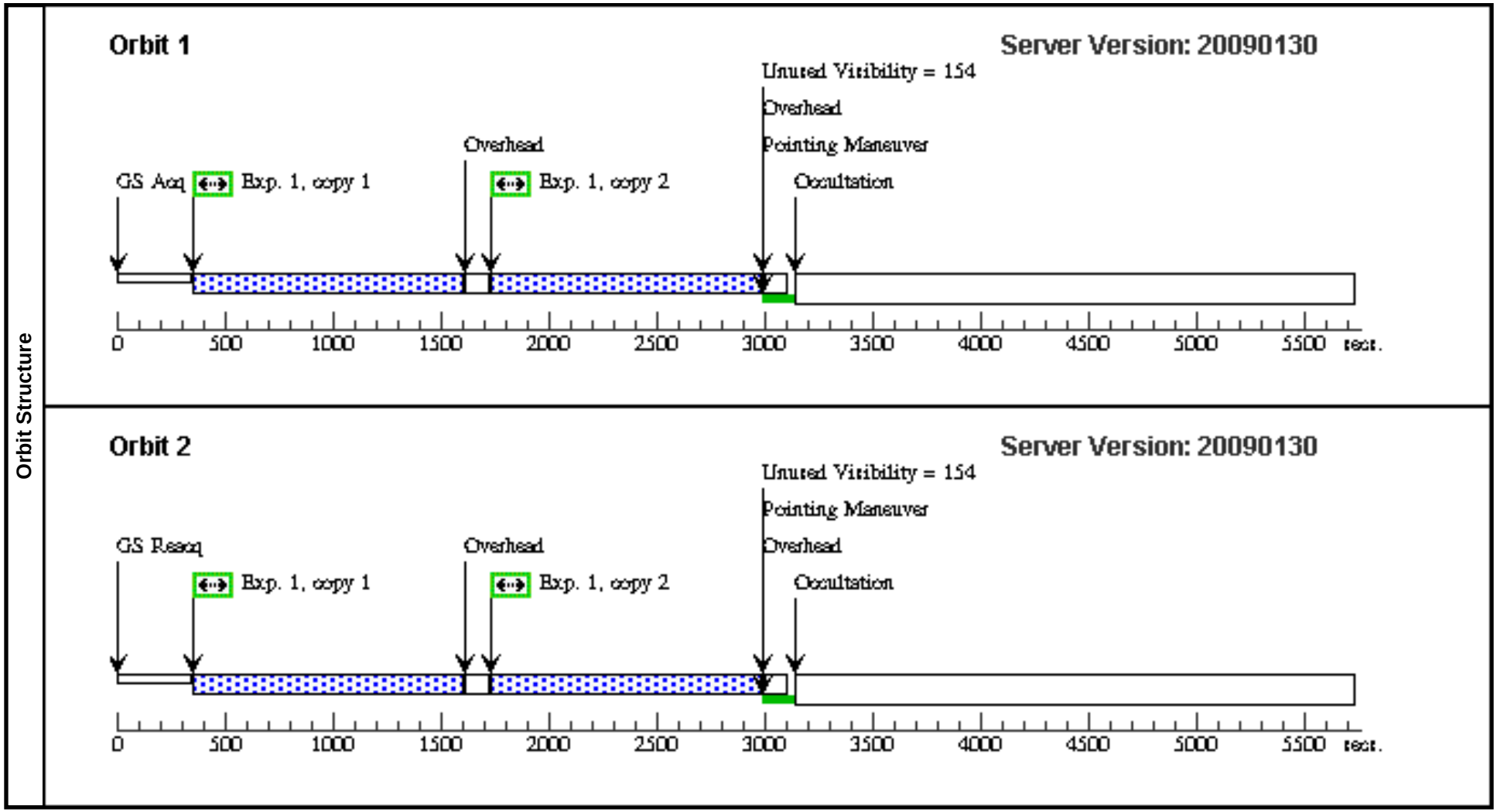
#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1)

Fixed Targets

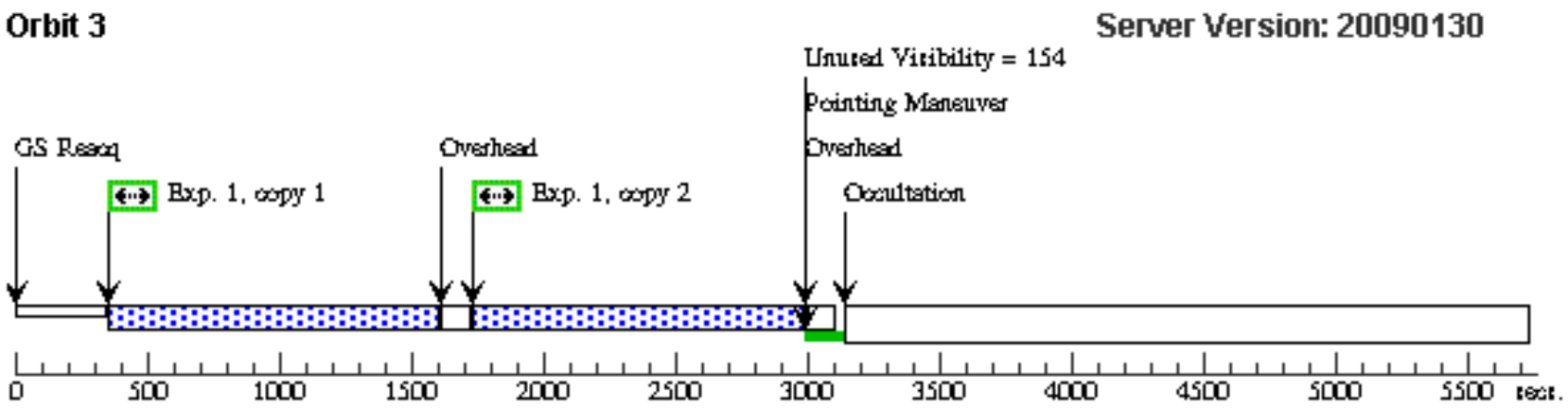
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	NGC4911-REPEAT	RA: 13 00 57.5208 (195.2396700d) Dec: +27 47 33.02 (27.79251d) Equinox: J2000		V=13.55+/-0.2	Reference Frame: ICRS

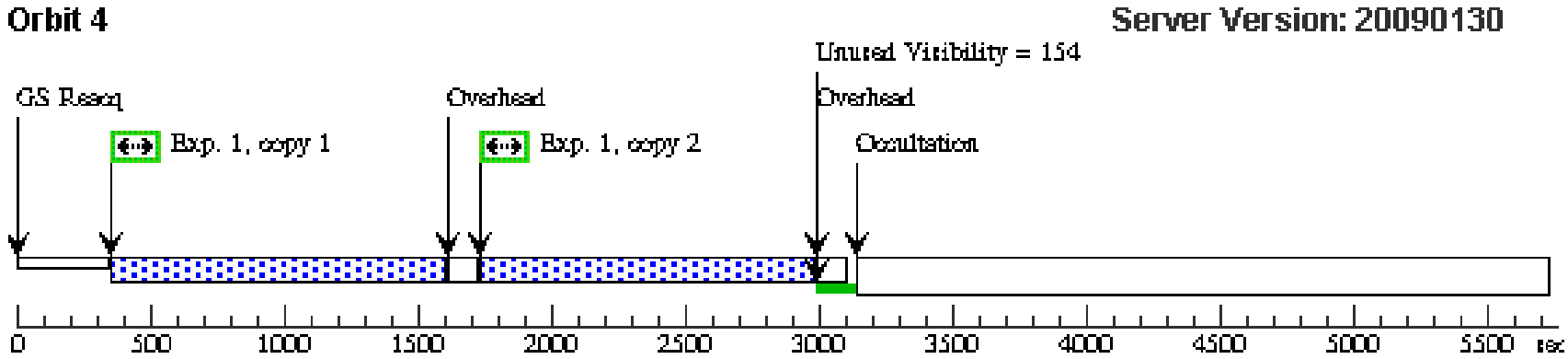
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(7) NGC4911-REPEAT	WFPC2, IMAGE, WF3-FIX	F450W	CLOCKS=YES; CR-SPLIT=NO	GS ACQ SCENARIO BASE1T3	Pattern 3, Exps 1-1 (3)	1100 Secs X 2	
								[==>(Pattern 1, Copy 1)] *[==>(Pattern 1, Copy 2)]*	***[1]***
								[==>(Pattern 2, Copy 1)] *[==>(Pattern 2, Copy 2)]*	***[2]***
								[==>(Pattern 3, Copy 1)] *[==>(Pattern 3, Copy 2)]*	***[3]***
								[==>(Pattern 4, Copy 1)] *[==>(Pattern 4, Copy 2)]*	***[4]***


Orbit Structure
Orbit 1
Server Version: 20090130
Unused Visibility = 154
Overhead
Pointing Maneuver
Overhead
GS Acq
Exp. 1, copy 1
Exp. 1, copy 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.
Orbit 2
Server Version: 20090130
Unused Visibility = 154
Pointing Maneuver
Overhead
GS Reacq
Overhead
Exp. 1, copy 1
Exp. 1, copy 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.

Orbit Structure (continued)





Visit

Proposal 11956, Visit 04, completed Thu Apr 23 01:42:20 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.704 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false		(5)
(3)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1-4)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	IC289	RA: 03 10 19.2600 (47.5802500d) Dec: +61 19 0.40 (61.31678d) Equinox: J2000		V=15	Reference Frame: ICRS

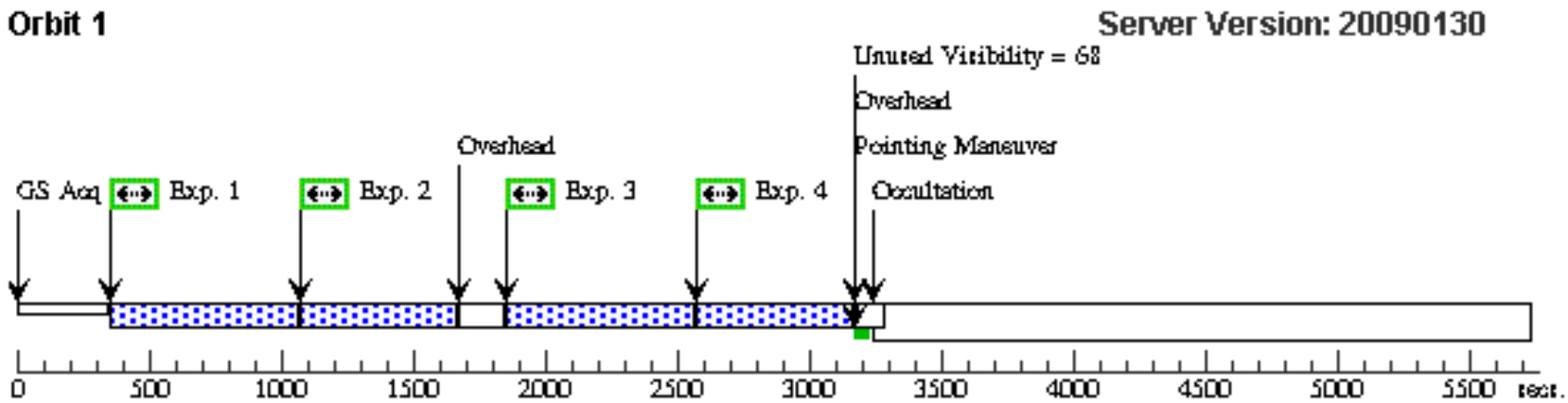
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(4) IC289	WFPC2, IMAGE, WF3-FIX	F502N	CR-SPLIT=NO; CLOCKS=YES		Pattern 3, Exps 1-4 (3)	500 Secs	
								[==>(Pattern 1)]	***[1]***
								[==>(Pattern 2)]	***[2]***
								[==>(Pattern 3)]	***[3]***
								[==>(Pattern 4)]	***[4]***
2		(4) IC289	WFPC2, IMAGE, WF3-FIX	F656N			Pattern 3, Exps 1-4 (3)	500 Secs	
								[==>(Pattern 1)]	***[1]***
								[==>(Pattern 2)]	***[2]***
								[==>(Pattern 3)]	***[3]***
								[==>(Pattern 4)]	***[4]***
3		(4) IC289	WFPC2, IMAGE, WF3-FIX	F658N	CR-SPLIT=NO; CLOCKS=YES		Pattern 3, Exps 1-4 (3)	500 Secs	
								[==>(Pattern 1)]	***[1]***
								[==>(Pattern 2)]	***[2]***
								[==>(Pattern 3)]	***[3]***
								[==>(Pattern 4)]	***[4]***

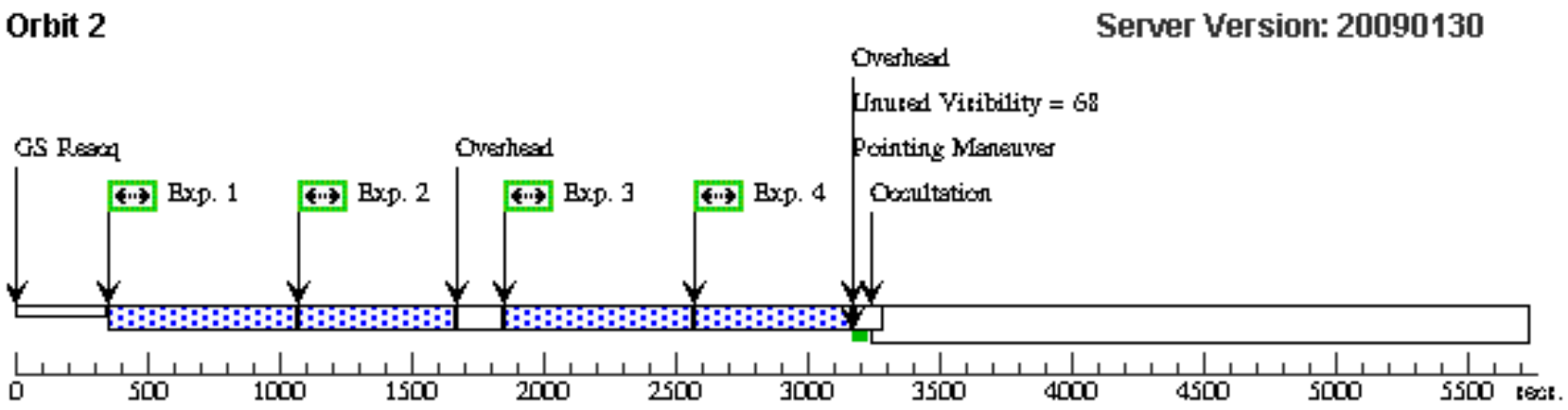
Exposures (continued)

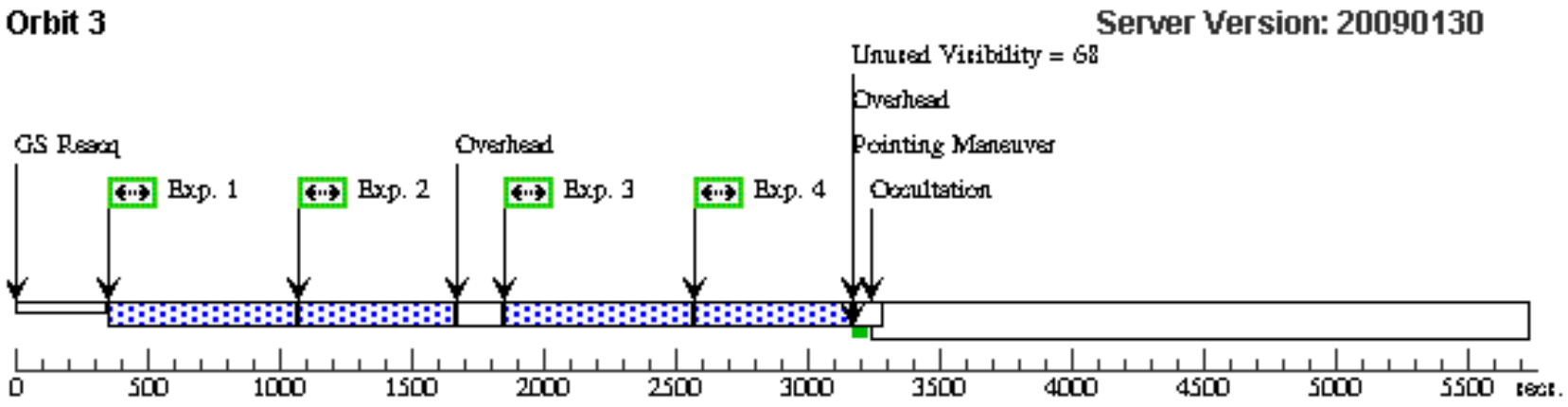
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
4		(4) IC289	WFPC2, IMAGE, WF3-FIX	F673N	CR-SPLIT=NO; CLOCKS=YES		Pattern 3, Exps 1-4 (3)	500 Secs	
								[==>(Pattern 1)]	***[1]***
								[==>(Pattern 2)]	***[2]***
								[==>(Pattern 3)]	***[3]***
								[==>(Pattern 4)]	***[4]***
5		(4) IC289	WFPC2, IMAGE, WF3-FIX	F469N	CR-SPLIT=NO		Pattern 2, Exps 5-5 (2)	500 Secs X 2	
								[==>(Pattern 1, Copy 1)] *[==>(Pattern 1, Copy 2)]* *[==>(Pattern 2, Copy 1)]* *[==>(Pattern 2, Copy 2)]*	***[5]***

Orbit Structure

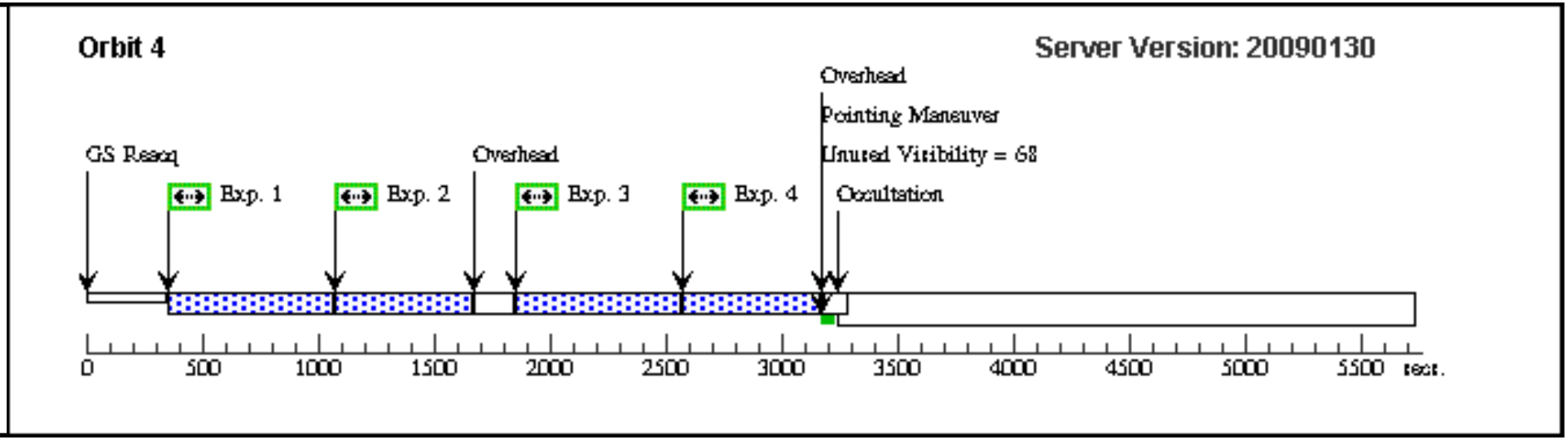


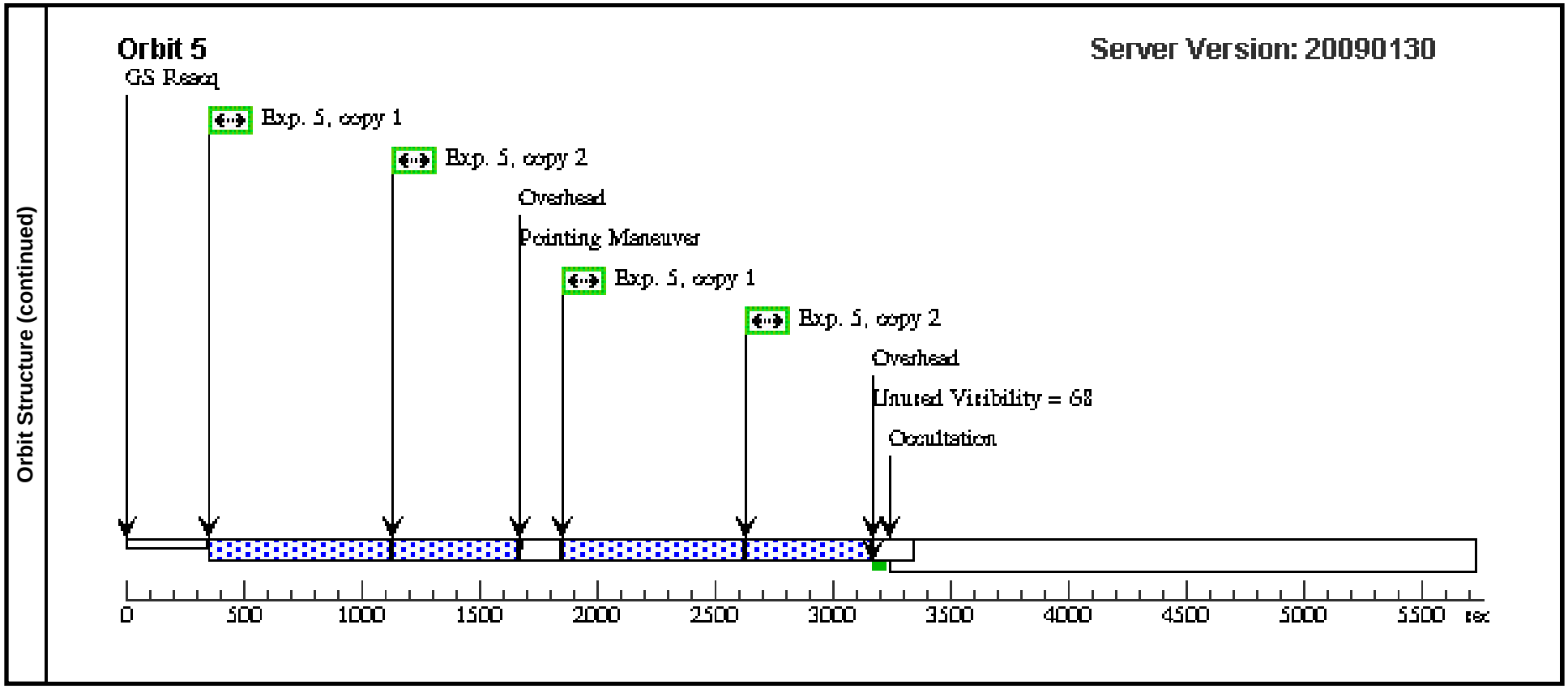
Orbit Structure (continued)





Orbit Structure (continued)




Orbit Structure (continued)
Orbit 5
Server Version: 20090130
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Overhead
Pointing Maneuver
Exp. 5, copy 1
Exp. 5, copy 2
Overhead
Unused Visibility = 68
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11956, Visit 05, completed Thu Apr 23 01:42:21 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.704 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false		(5)
(3)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1-4)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	NGC1501	RA: 04 06 59.3650 (61.7473542d) Dec: +60 55 14.47 (60.92069d) Equinox: J2000		V=15	Reference Frame: ICRS

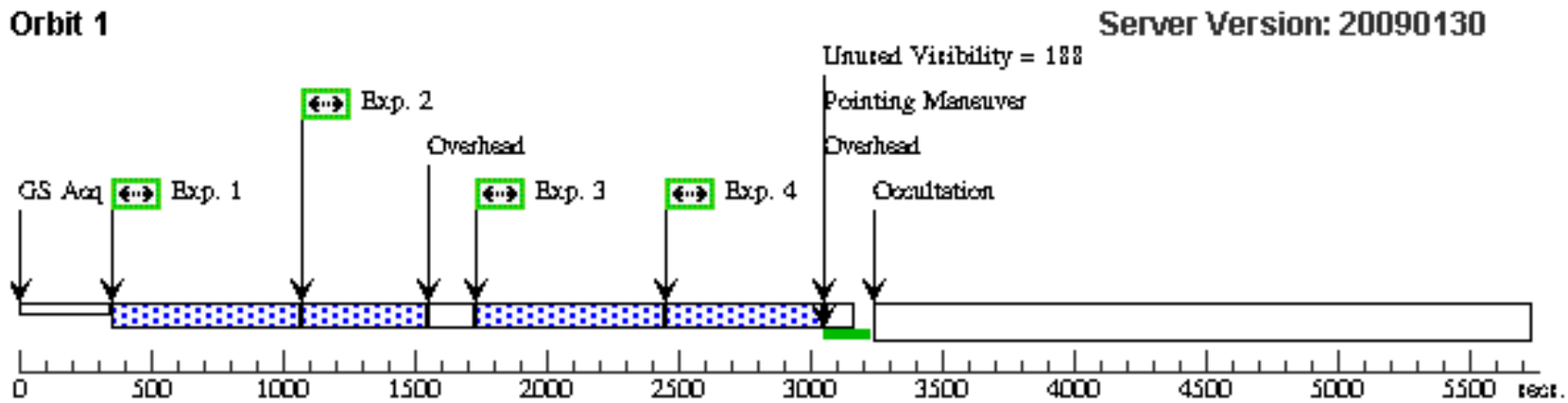
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(5) NGC1501	WFPC2, IMAGE, WF3-FIX	F502N	CR-SPLIT=NO; CLOCKS=YES		Pattern 3, Exps 1-4 (3)	500 Secs	
								[==>(Pattern 1)]	***[1]***
								[==>(Pattern 2)]	***[2]***
								[==>(Pattern 3)]	***[3]***
								[==>(Pattern 4)]	***[4]***
2		(5) NGC1501	WFPC2, IMAGE, WF3-FIX	F656N	CR-SPLIT=NO		Pattern 3, Exps 1-4 (3)	400 Secs	
								[==>(Pattern 1)]	***[1]***
								[==>(Pattern 2)]	***[2]***
								[==>(Pattern 3)]	***[3]***
								[==>(Pattern 4)]	***[4]***
3		(5) NGC1501	WFPC2, IMAGE, WF3-FIX	F658N	CR-SPLIT=NO; CLOCKS=YES		Pattern 3, Exps 1-4 (3)	500 Secs	
								[==>(Pattern 1)]	***[1]***
								[==>(Pattern 2)]	***[2]***
								[==>(Pattern 3)]	***[3]***
								[==>(Pattern 4)]	***[4]***

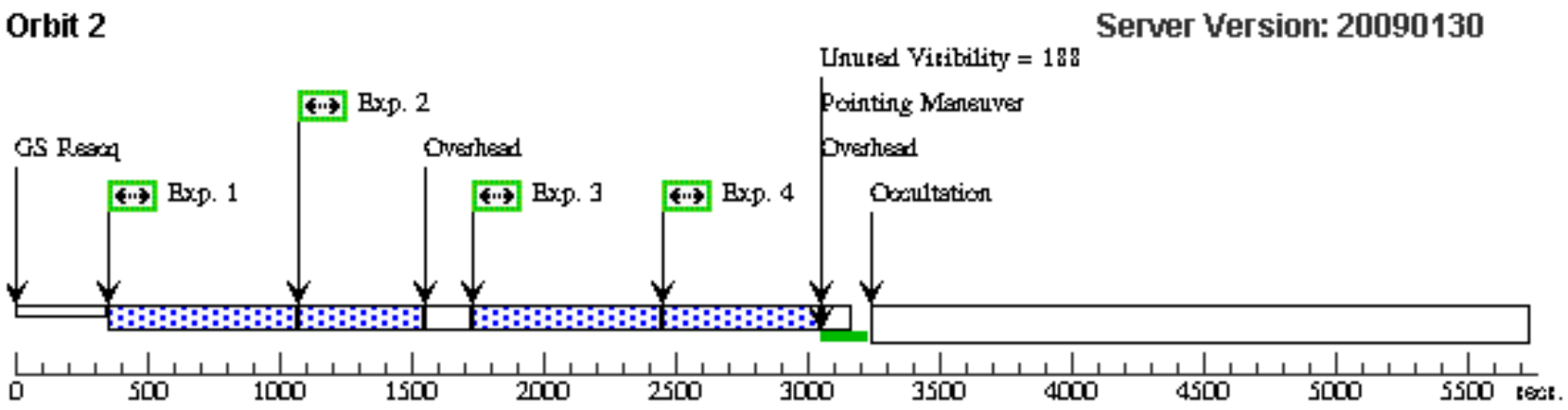
Exposures (continued)

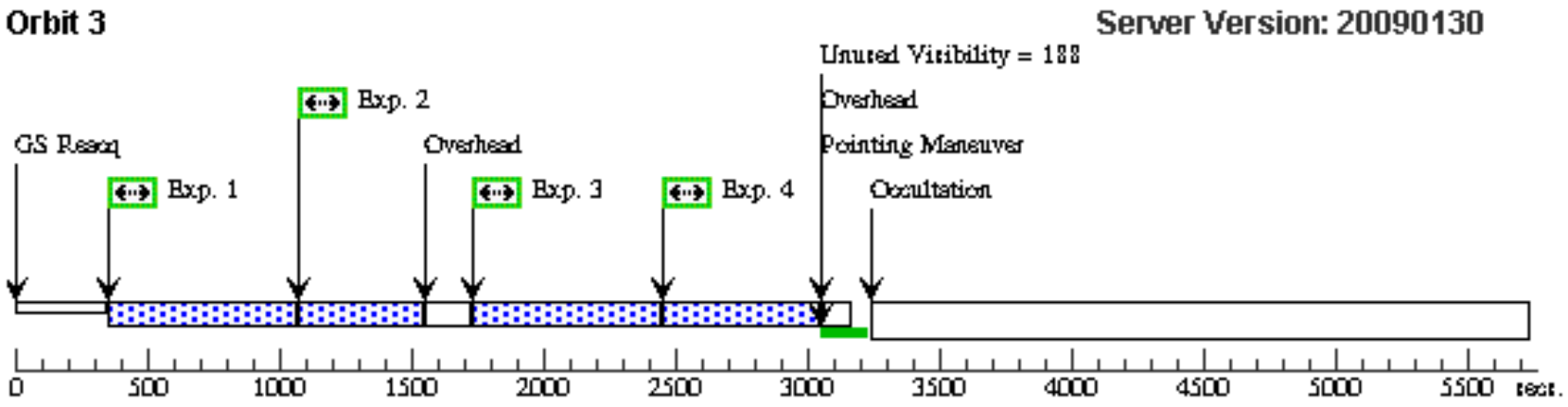
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
4		(5) NGC1501	WFPC2, IMAGE, WF3-FIX	F673N	CR-SPLIT=NO; CLOCKS=YES		Pattern 3, Exps 1-4 (3)	500 Secs	
								[==>(Pattern 1)]	***[1]***
								[==>(Pattern 2)]	***[2]***
								[==>(Pattern 3)]	***[3]***
								[==>(Pattern 4)]	***[4]***
5		(5) NGC1501	WFPC2, IMAGE, WF3-FIX	F469N	CR-SPLIT=NO		Pattern 2, Exps 5-5 (2)	500 Secs X 2	
								[==>(Pattern 1, Copy 1)] *[==>(Pattern 1, Copy 2)]* *[==>(Pattern 2, Copy 1)]* *[==>(Pattern 2, Copy 2)]*	***[5]***

Orbit Structure

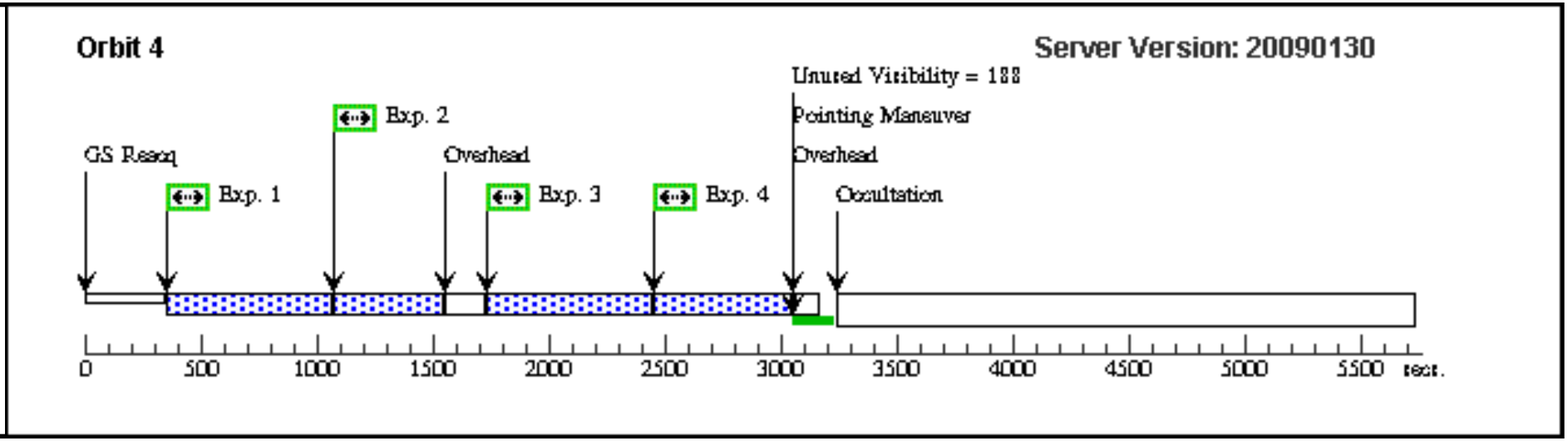


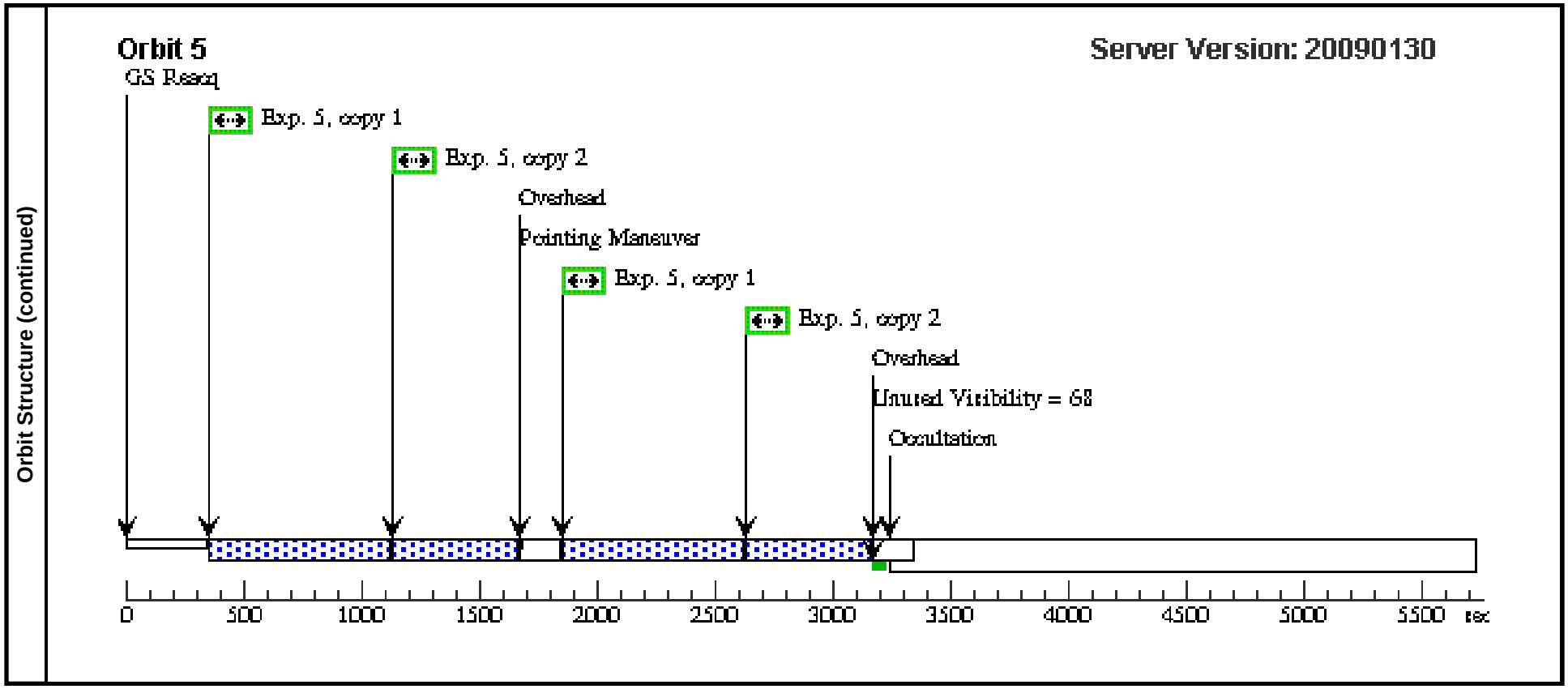
Orbit Structure (continued)





Orbit Structure (continued)




Orbit Structure (continued)
Orbit 5
Server Version: 20090130
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Overhead
Pointing Maneuver
Exp. 5, copy 1
Exp. 5, copy 2
Overhead
Unused Visibility = 68
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11956, Visit 06, completed Thu Apr 23 01:42:22 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: ORIENT 300D TO 325 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.704 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45 Angle Between Sides= Center Pattern=false		(5)
(3)	Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017	Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false		(1-4)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	NGC2818	RA: 09 16 1.5500 (139.0064583d) Dec: -36 37 37.50 (-36.62708d) Equinox: J2000		V=15	Reference Frame: ICRS

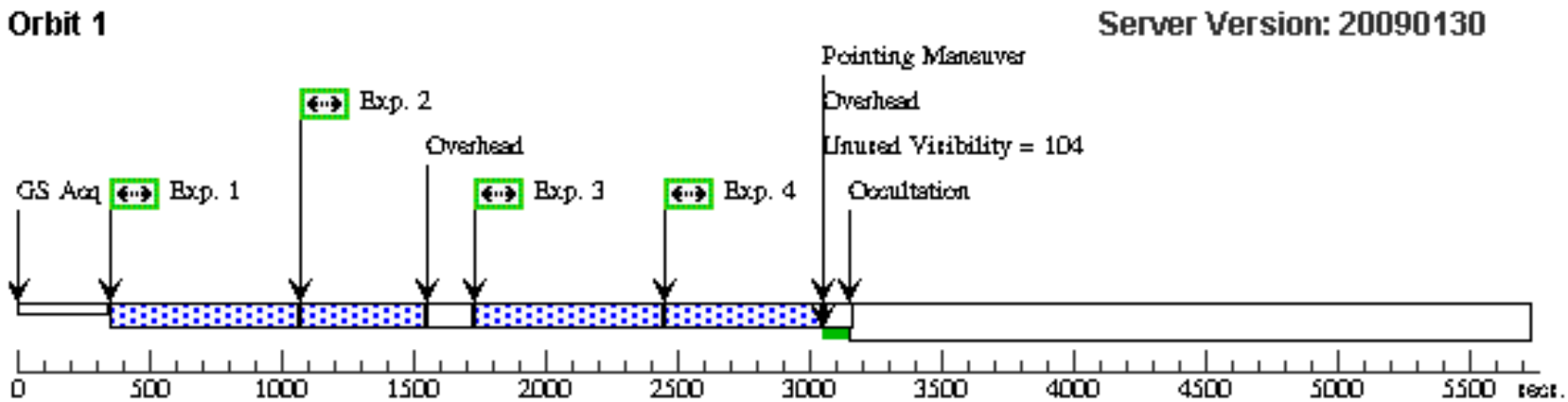
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(6) NGC2818	WFPC2, IMAGE, WF3-FIX	F502N	CR-SPLIT=NO; CLOCKS=YES	POS TARG 37.5,2	Pattern 3, Exps 1-4 (3)	500 Secs	
								[==>(Pattern 1)]	***[1]***
								[==>(Pattern 2)]	***[2]***
								[==>(Pattern 3)]	***[3]***
								[==>(Pattern 4)]	***[4]***
2		(6) NGC2818	WFPC2, IMAGE, WF3-FIX	F656N	CR-SPLIT=NO	POS TARG 37.5,2	Pattern 3, Exps 1-4 (3)	400 Secs	
								[==>(Pattern 1)]	***[1]***
								[==>(Pattern 2)]	***[2]***
								[==>(Pattern 3)]	***[3]***
								[==>(Pattern 4)]	***[4]***
3		(6) NGC2818	WFPC2, IMAGE, WF3-FIX	F658N	CR-SPLIT=NO; CLOCKS=YES	POS TARG 37.5,2	Pattern 3, Exps 1-4 (3)	500 Secs	
								[==>(Pattern 1)]	***[1]***
								[==>(Pattern 2)]	***[2]***
								[==>(Pattern 3)]	***[3]***
								[==>(Pattern 4)]	***[4]***

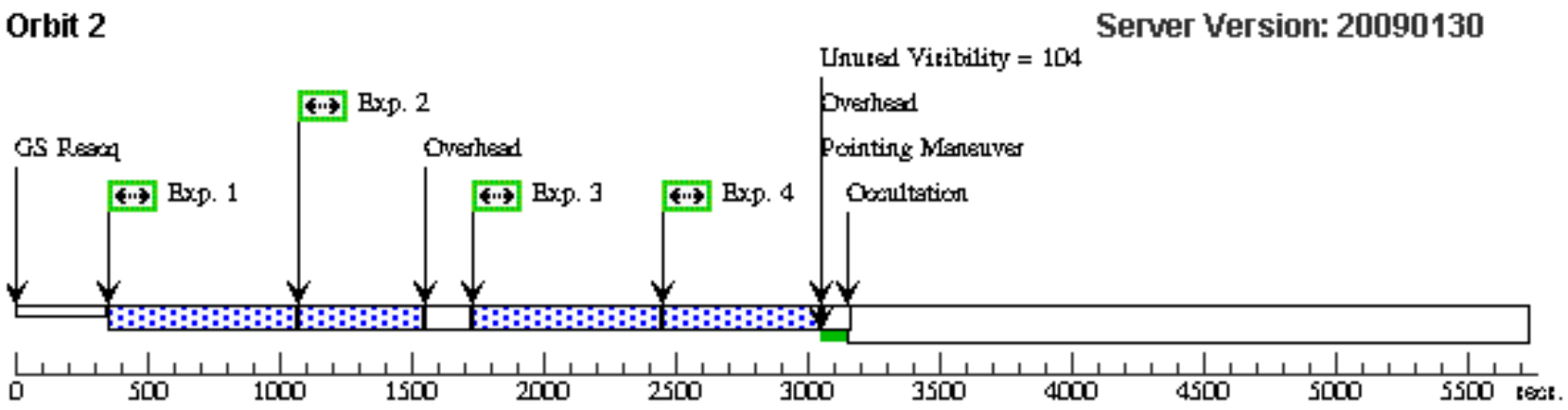
Exposures (continued)

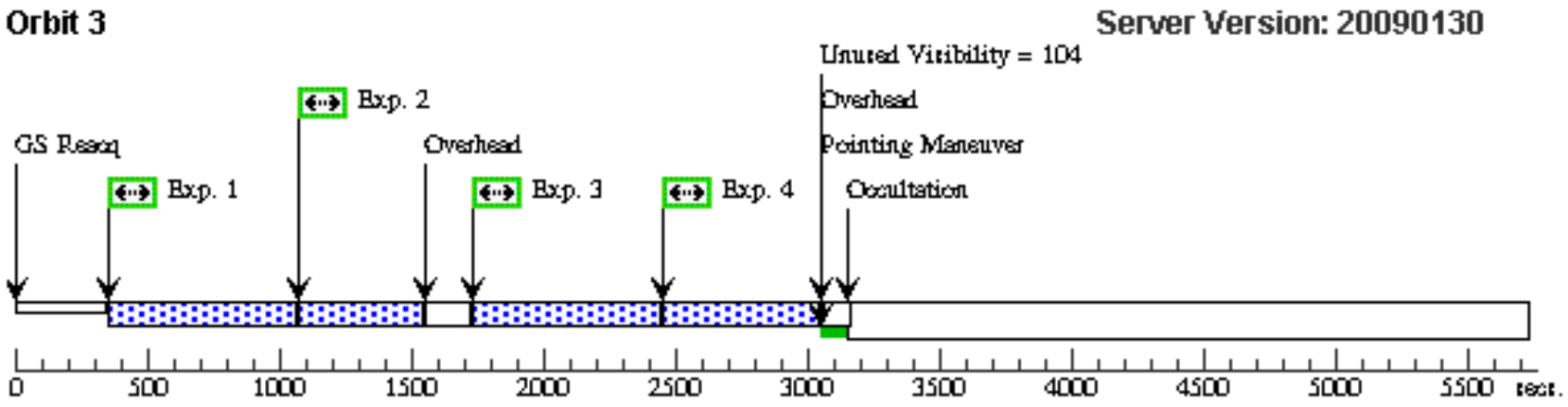
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
4		(6) NGC2818	WFPC2, IMAGE, WF3-FIX	F673N	CR-SPLIT=NO; CLOCKS=YES	POS TARG 37.5,2	Pattern 3, Exps 1-4 (3)	500 Secs	
								[==>(Pattern 1)]	***[1]***
								[==>(Pattern 2)]	***[2]***
								[==>(Pattern 3)]	***[3]***
								[==>(Pattern 4)]	***[4]***
5		(6) NGC2818	WFPC2, IMAGE, WF3-FIX	F469N	CR-SPLIT=NO; CLOCKS=YES	POS TARG 37.5,2	Pattern 2, Exps 5-5 (2)	500 Secs X 2	
								[==>(Pattern 1, Copy 1)] *[==>(Pattern 1, Copy 2)]* *[==>(Pattern 2, Copy 1)]* *[==>(Pattern 2, Copy 2)]*	***[5]***

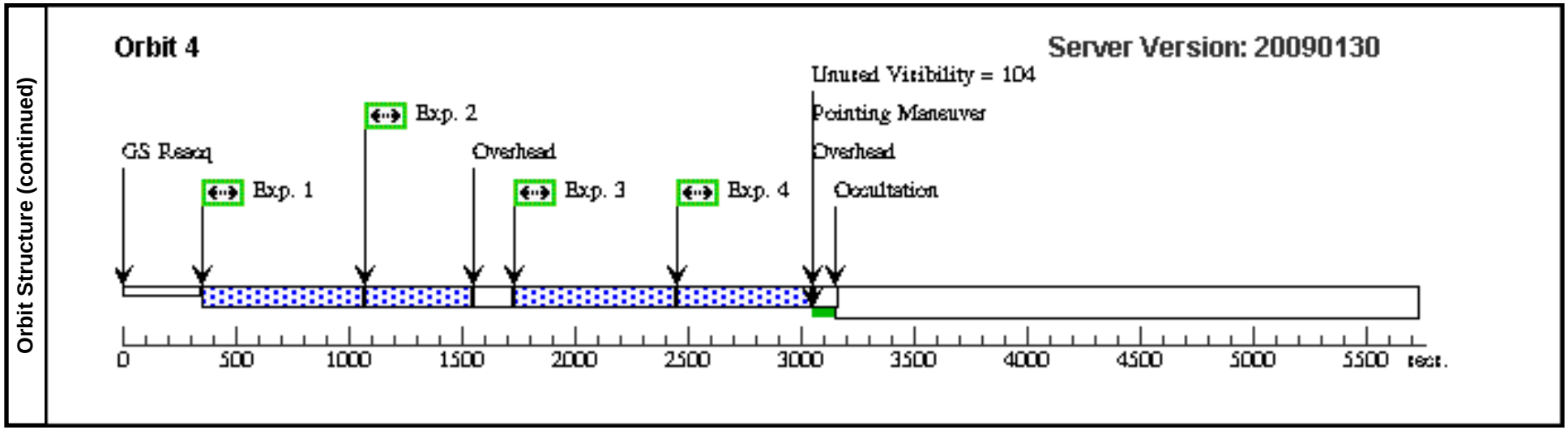
Orbit Structure

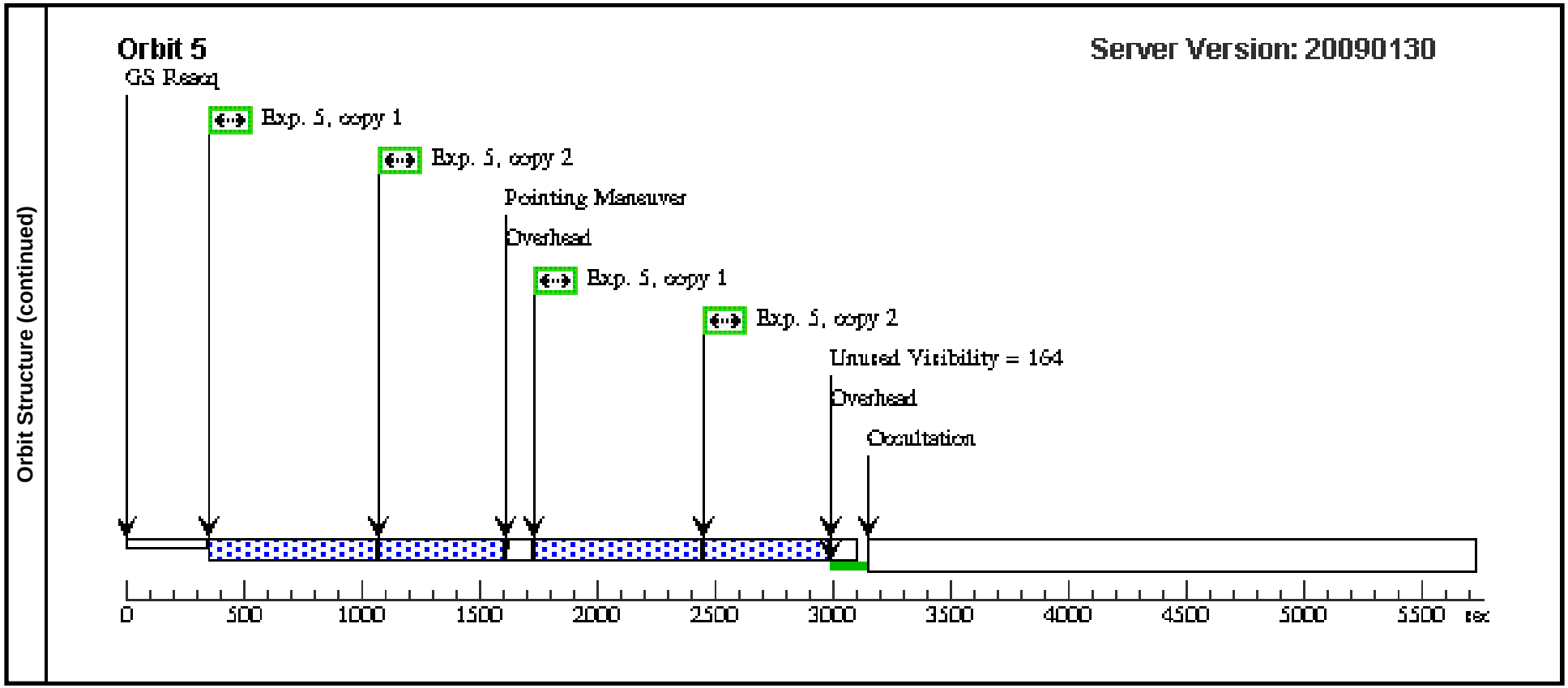


Orbit Structure (continued)






Orbit Structure (continued)
Orbit 4
Server Version: 20090130
Unused Visibility = 104
Pointing Maneuver
Overhead
Occultation
GS Reacq
Exp. 1
Exp. 2
Overhead
Exp. 3
Exp. 4
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec.


Orbit Structure (continued)
Orbit 5
Server Version: 20090130
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Pointing Maneuver
Overhead
Exp. 5, copy 1
Exp. 5, copy 2
Unused Visibility = 164
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 11956, Visit 31, completed Thu Apr 23 01:42:23 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: (none)

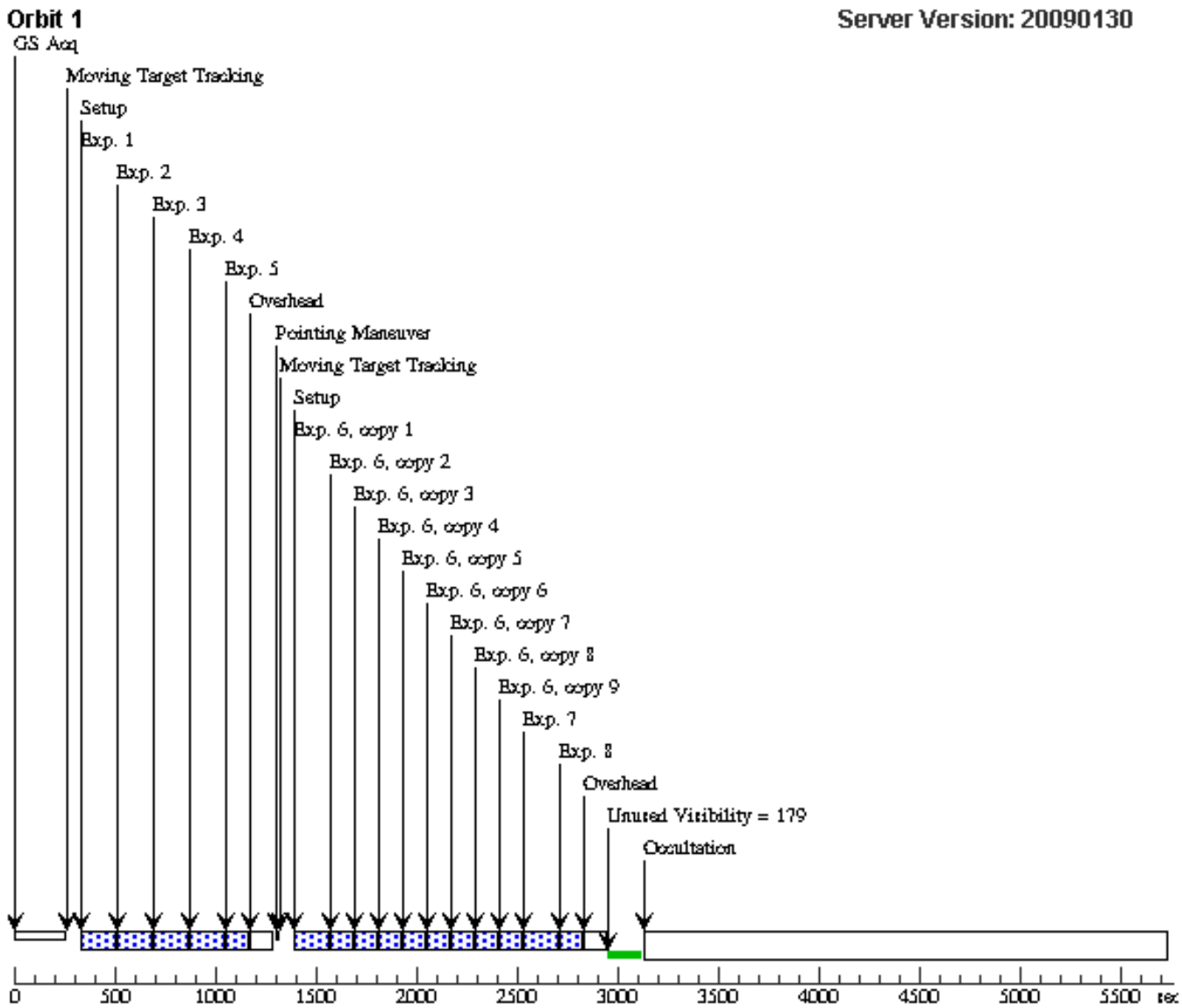
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(8)	SATURN-TITAN	STD=SATURN				EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES	POS TARG 7,5; GS ACQ SCENARIO SINGLE		3 Secs *[==>]*	*[1]*
2		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F555W		POS TARG 7,5		0.3 Secs *[==>]*	*[1]*
3		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F675W		POS TARG 7,5		0.3 Secs *[==>]*	*[1]*
4		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG 7,5		20 Secs *[==>]*	*[1]*
5		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F814W		POS TARG 7,5		0.3 Secs *[==>]*	*[1]*
6		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES	POS TARG -5,2		3 Secs X 9 *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	*[1]*
7		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F555W		POS TARG -5,2		0.3 Secs *[==>]*	*[1]*
8		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F675W		POS TARG -5,2		0.3 Secs *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 11956, Visit 32, completed Thu Apr 23 01:42:24 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: (none)

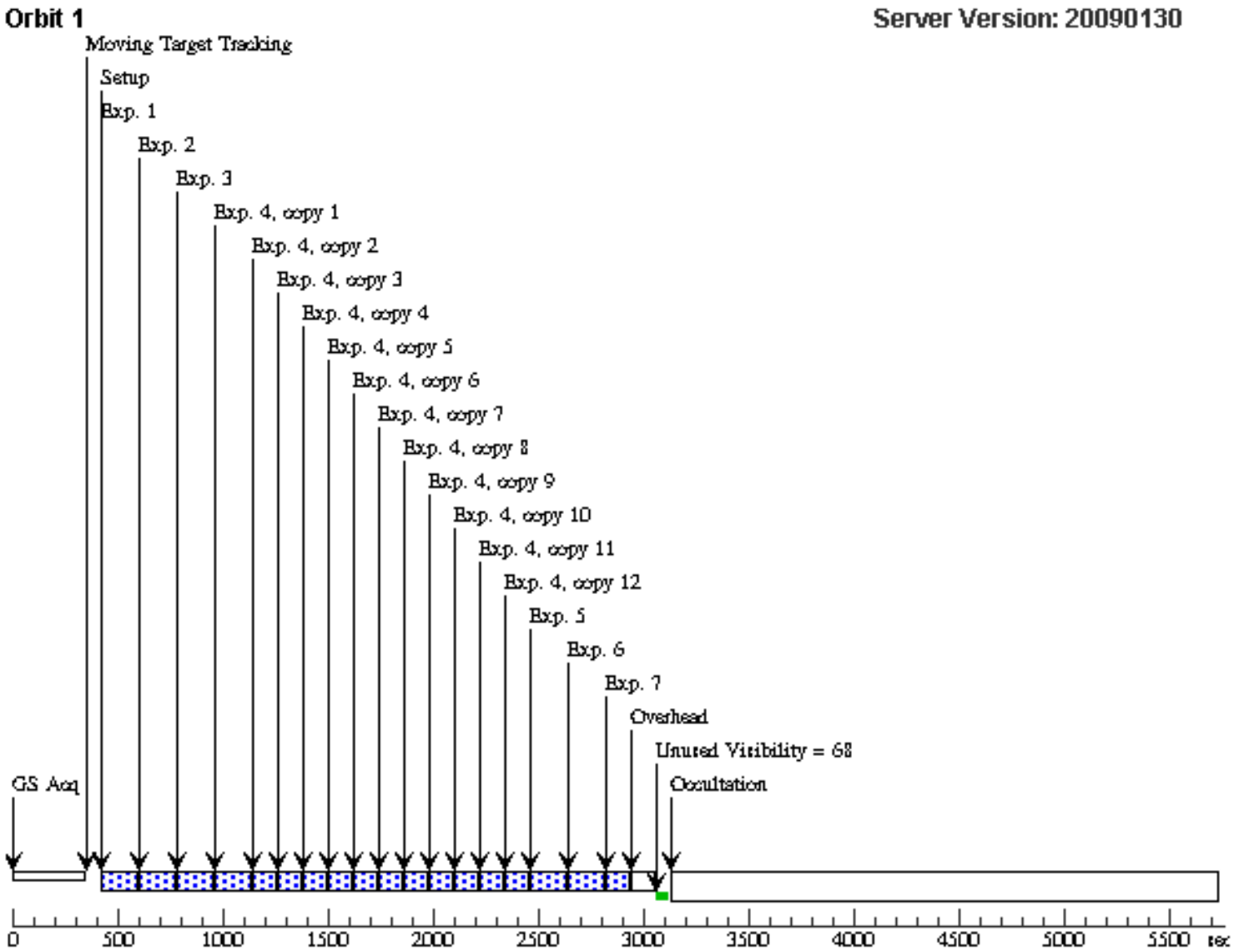
Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(8)	SATURN-TITAN	STD=SATURN				EARTH

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES	POS TARG -5,2		3 Secs	
								[==>]	***[1]***
2		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F555W		POS TARG -5,2		0.3 Secs	
								[==>]	***[1]***
3		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F675W		POS TARG -5,2		0.3 Secs	
								[==>]	***[1]***
4		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES	POS TARG -5,2		3 Secs X 12	
								[==>(Copy 1)]	***[1]***
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	
								[==>(Copy 8)]	
								[==>(Copy 9)]	
								[==>(Copy 10)]	
								[==>(Copy 11)]	
								[==>(Copy 12)]	
5		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F675W		POS TARG -5,2		0.3 Secs	
								[==>]	***[1]***
6		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F555W		POS TARG -5,2		0.3 Secs	
								[==>]	***[1]***
7		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES	POS TARG -5,2		3 Secs	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 11956, Visit 33, completed Thu Apr 23 01:42:24 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: (none)

Solar System Targets

#	Name	Level 1	Level 2	Level 3	Window	Ephem Center
(8)	SATURN-TITAN	STD=SATURN				EARTH

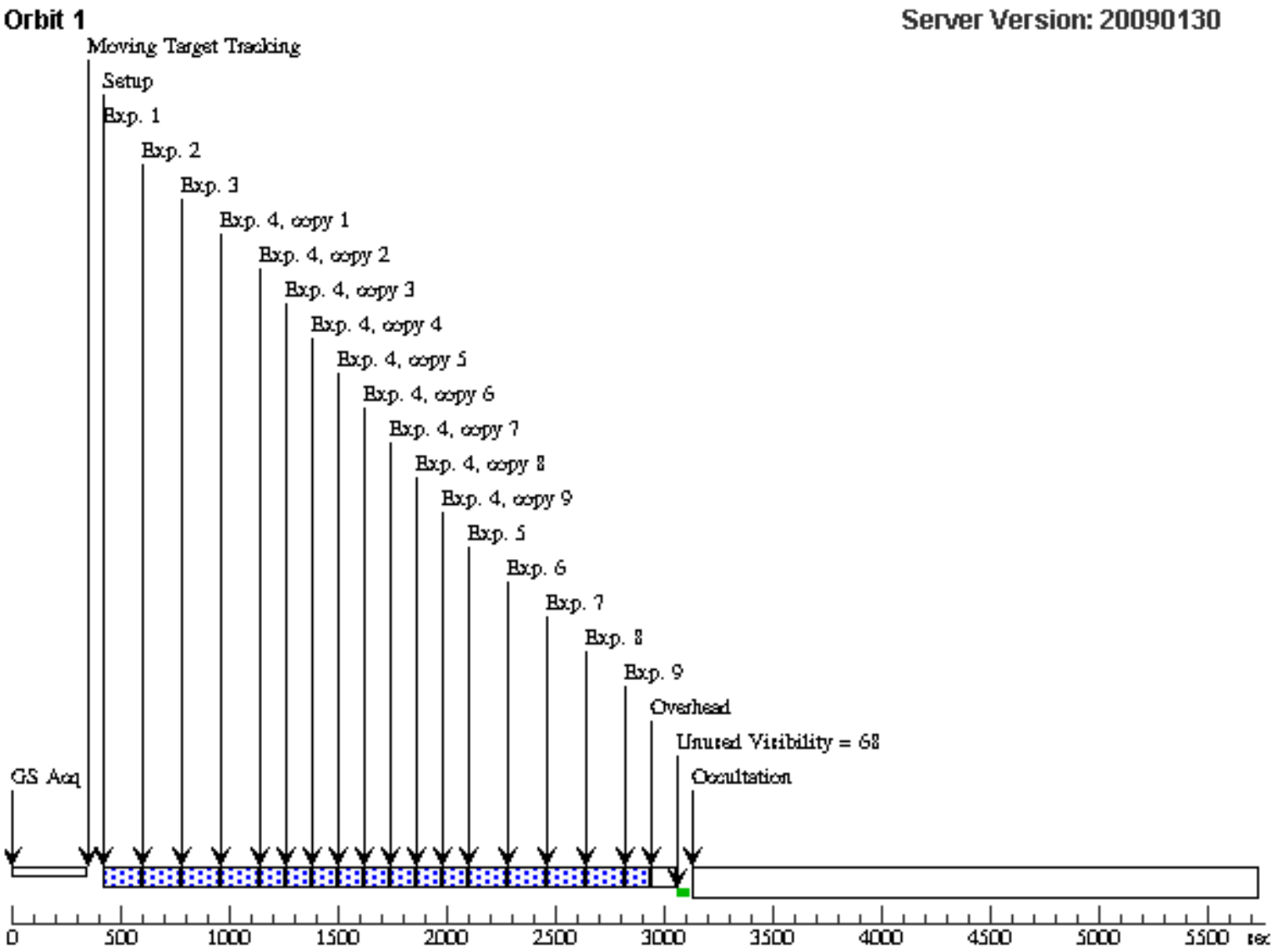
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES	POS TARG -5,2		3 Secs	
								[==>]	***[1]***
2		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F555W		POS TARG -5,2		0.3 Secs	
								[==>]	***[1]***
3		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F675W		POS TARG -5,2		0.3 Secs	
								[==>]	***[1]***
4		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES	POS TARG -5,2		3 Secs X 9	
								[==>(Copy 1)]	***[1]***
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	
								[==>(Copy 5)]	
								[==>(Copy 6)]	
								[==>(Copy 7)]	
								[==>(Copy 8)]	
								[==>(Copy 9)]	
5		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F675W		POS TARG -5,2		0.3 Secs	
								[==>]	***[1]***
6		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F555W		POS TARG -5,2		0.3 Secs	
								[==>]	***[1]***
7		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F336W		POS TARG -5,2		20 Secs	
								[==>]	***[1]***
8		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F814W		POS TARG -5,2		0.3 Secs	
								[==>]	***[1]***

Exposures (continued)

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
9		(8) SATURN-TITAN	WFPC2, IMAGE, PC1-FIX	F439W	CLOCKS=YES	POS TARG -5,2		3 Secs	
								[==>]	*[1]*

Orbit Structure



Visit

Proposal 11956, Visit 91, implementation Thu Apr 23 01:42:24 GMT 2009

Diagnostic Status: No Diagnostics

Scientific Instruments: WFPC2

Special Requirements: ORIENT 245D TO 265 D

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	K4-55	RA: 20 45 9.9454 (311.2914392d) Dec: +44 39 13.75 (44.65382d) Equinox: J2000		V=12.0	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the NED database.

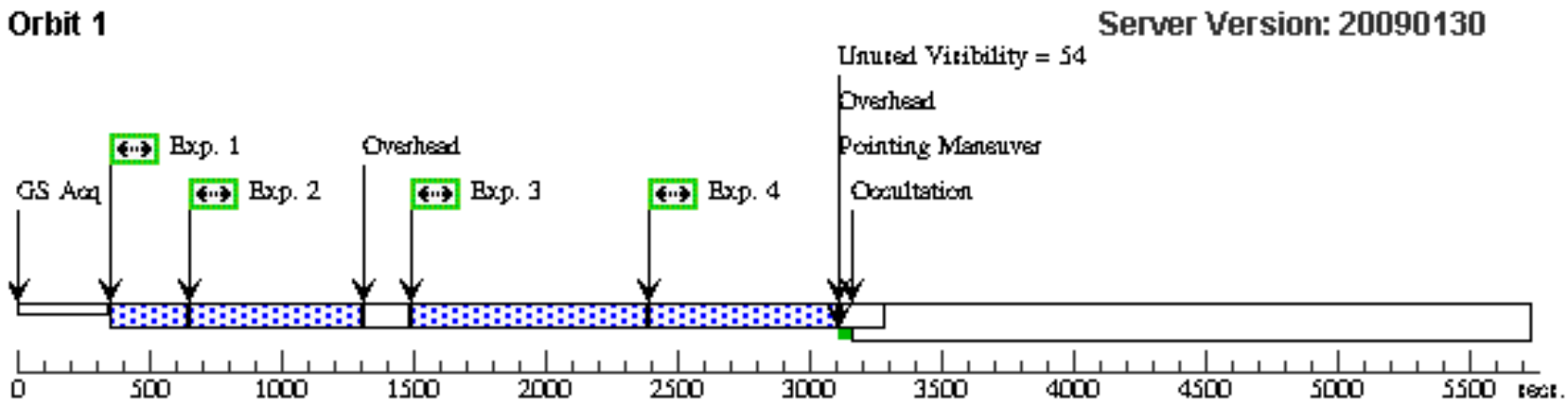
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F502N	CR-SPLIT=NO	POS TARG 8,8		60 Secs *[==>]*	*[1]*
2		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F502N	CR-SPLIT=NO	POS TARG 8,8		600 Secs *[==>]*	*[1]*
3		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F656N	CR-SPLIT=NO	POS TARG 8,8		600 Secs *[==>]*	*[1]*
4		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F658N	CR-SPLIT=NO	POS TARG 8,8		600 Secs *[==>]*	*[1]*
5		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F656N	CR-SPLIT=NO	POS TARG 8.498,8.249		40 Secs *[==>]*	*[2]*
6		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F502N	CR-SPLIT=NO	POS TARG 8.498,8.249		600 Secs *[==>]*	*[2]*
7		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F656N	CR-SPLIT=NO	POS TARG 8.498,8.249		600 Secs *[==>]*	*[2]*
8		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F658N	CR-SPLIT=NO	POS TARG 8.498,8.249		600 Secs *[==>]*	*[2]*
9		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F658N	CR-SPLIT=NO	POS TARG 8.747,8.747		40 Secs *[==>]*	*[3]*
10		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F502N	CR-SPLIT=NO	POS TARG 8.747,8.747		600 Secs *[==>]*	*[3]*
11		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F656N	CR-SPLIT=NO	POS TARG 8.747,8.747		600 Secs *[==>]*	*[3]*
12		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F658N	CR-SPLIT=NO	POS TARG 8.747,8.747		600 Secs *[==>]*	*[3]*
13		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F658N	CR-SPLIT=NO	POS TARG 8.249,8.498		40 Secs *[==>]*	*[4]*
14		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F502N	CR-SPLIT=NO	POS TARG 8.249,8.498		600 Secs *[==>]*	*[4]*

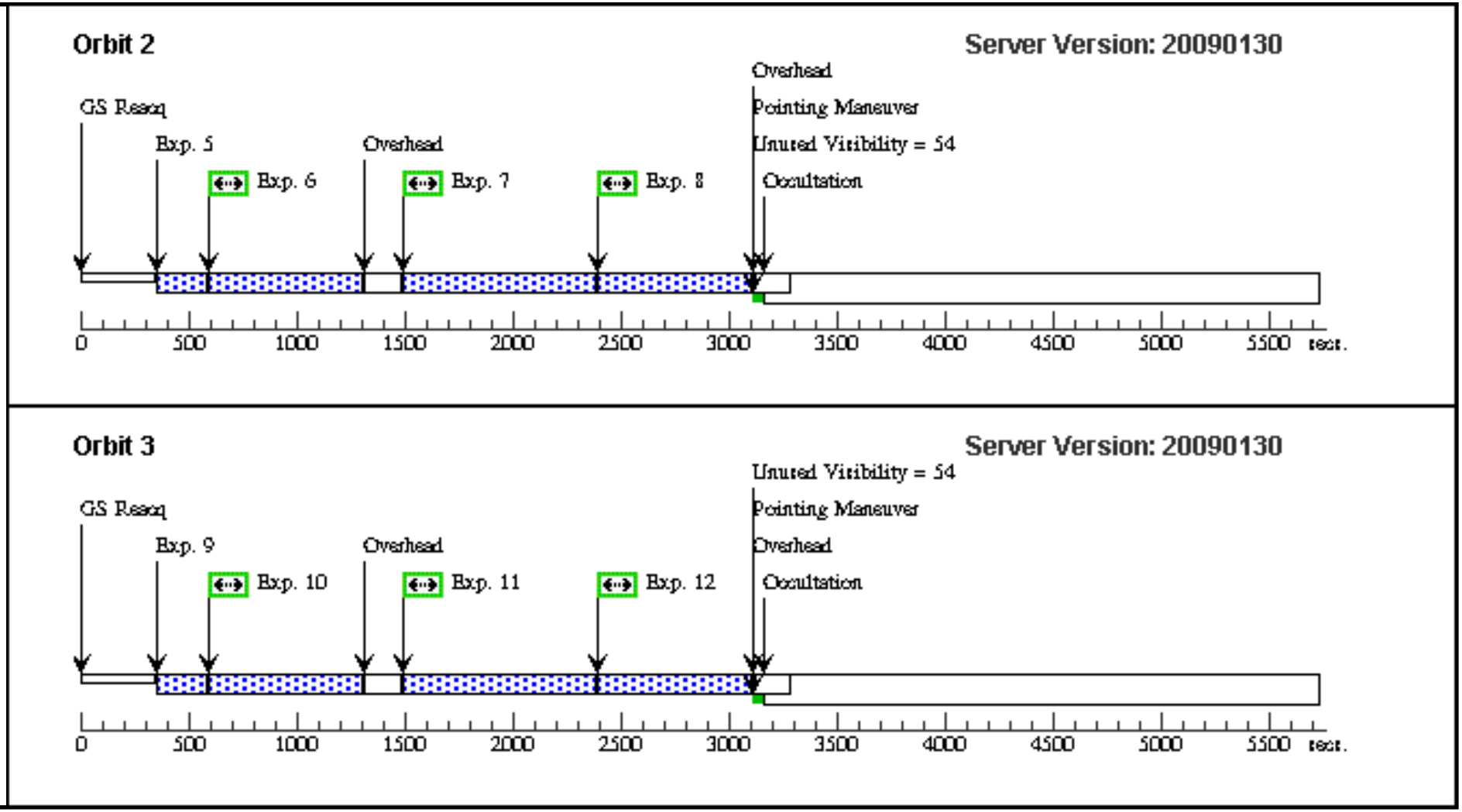
Exposures (continued)

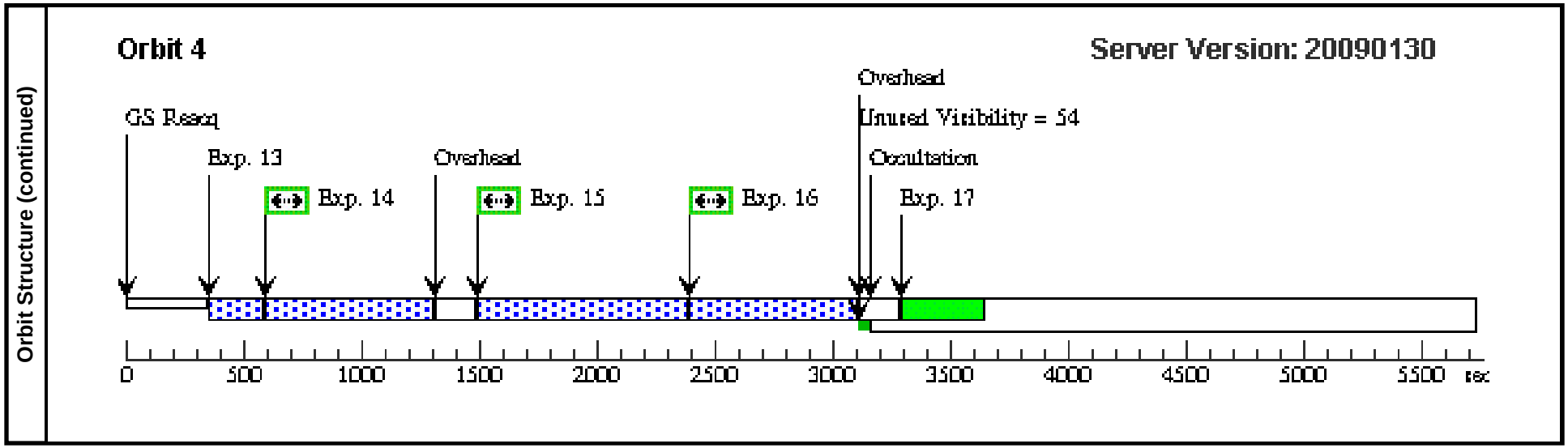
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
15		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F656N	CR-SPLIT=NO	POS TARG 8.249,8.498		600 Secs	
								[==>]	***[4]***
16		(9) K4-55	WFPC2, IMAGE, WF3-FIX	F658N	CR-SPLIT=NO	POS TARG 8.249,8.498		600 Secs	
								[==>]	***[4]***
17		DARK	WFPC2, IMAGE, WF3-FIX	DEF				1 Secs	
								[==>]	***[4]***

Orbit Structure



Orbit Structure (continued)




Orbit Structure (continued)
Orbit 4
Server Version: 20090130
GS Reacq
Exp. 13
Exp. 14
Overhead
Exp. 15
Exp. 16
Overhead
Unused Visibility = 54
Occultation
Exp. 17
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec