



10497 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Cycle: 14, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Adam Riess (PI)	Space Telescope Science Institute	ariess@stsci.edu
Dr. Peter B. Stetson (CoI)	Dominion Astrophysical Observatory	stetson@nrc-cnrc.gc.ca
Prof. Alex V. Filippenko (CoI)	University of California - Berkeley	alex@astro.berkeley.edu
Dr. Lincoln J. Greenhill (CoI)	Smithsonian Institution Astrophysical Observatory	greenhill@cfa.harvard.edu
Dr. Weidong Li (CoI)	University of California - Berkeley	wli@astro.berkeley.edu
Dr. Saurabh Jha (CoI)	University of California - Berkeley	saurabh@astron.berkeley.edu

VISITS

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(2) NGC-1309	ACS/WFC	4	20-Jun-2005 14:06:24.0	yes
02	(2) NGC-1309	ACS/WFC	2	20-Jun-2005 14:06:41.0	yes
03	(2) NGC-1309	ACS/WFC	4	20-Jun-2005 14:06:59.0	yes
04	(2) NGC-1309	ACS/WFC	2	20-Jun-2005 14:07:21.0	yes
05	(2) NGC-1309	ACS/WFC	2	20-Jun-2005 14:07:32.0	yes
06	(2) NGC-1309	ACS/WFC	2	20-Jun-2005 14:07:41.0	yes
07	(2) NGC-1309	ACS/WFC	4	20-Jun-2005 14:07:57.0	yes

Proposal 10497 - Overview

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
08	(2) NGC-1309	ACS/WFC	2	20-Jun-2005 14:08:10.0	yes
09	(2) NGC-1309	ACS/WFC	2	20-Jun-2005 14:08:19.0	yes
10	(2) NGC-1309	ACS/WFC	4	20-Jun-2005 14:08:35.0	yes
11	(2) NGC-1309	ACS/WFC	2	20-Jun-2005 14:08:48.0	yes
12	(2) NGC-1309	ACS/WFC	4	20-Jun-2005 14:09:03.0	yes
13	(1) NGC-3021	ACS/WFC	4	20-Jun-2005 14:09:22.0	yes
14	(1) NGC-3021	ACS/WFC	2	20-Jun-2005 14:09:35.0	yes
15	(1) NGC-3021	ACS/WFC	4	20-Jun-2005 14:09:59.0	yes
16	(1) NGC-3021	ACS/WFC	2	20-Jun-2005 14:10:12.0	yes
17	(1) NGC-3021	ACS/WFC	2	20-Jun-2005 14:10:21.0	yes
18	(1) NGC-3021	ACS/WFC	2	20-Jun-2005 14:10:30.0	yes
19	(1) NGC-3021	ACS/WFC	4	20-Jun-2005 14:10:46.0	yes
20	(1) NGC-3021	ACS/WFC	2	20-Jun-2005 14:10:59.0	yes
21	(1) NGC-3021	ACS/WFC	2	20-Jun-2005 14:11:10.0	yes
22	(1) NGC-3021	ACS/WFC	4	20-Jun-2005 14:11:25.0	yes
23	(1) NGC-3021	ACS/WFC	2	20-Jun-2005 14:11:39.0	yes
24	(1) NGC-3021	ACS/WFC	4	20-Jun-2005 14:11:54.0	yes

68 Total Orbits Used

ABSTRACT

We propose to determine the luminosity of two type Ia supernovae (SNe Ia), 1995al in NGC 3021 and SN 2002fk in NGC 1309,

Proposal 10497 - Overview

by observing Cepheids in their spiral hosts. Modern CCD photometry yields an extremely tight Hubble diagram for SNe Ia with a precisely determined intercept (i.e., $\Delta H_0/H_0$). Yet, the measurement of the true Hubble constant via SNe Ia is limited by the calibration derived from problematic and unreliable SN data. Most of the SNe Ia calibrated by HST to date are significantly compromised by the systematics of photographic photometry, high reddening and SN peculiarity, and by the photometric anomalies associated with WFPC2. The extended reach of ACS now provides opportunities to more reliably calibrate SNe Ia and H_0 . Our Cepheid calibration of a reliable SN Ia dataset, SN 1994ae, using ACS in Cycle 11 resulted in a 15% increase in H_0 from the value derived by the HST SN Ia Calibration Program. Yet, there remains a terribly small sample of reliable SN Ia data sets on which to base such a crucial cosmological result. SN 1995al and SN 2002fk are two of the best observed SNe Ia both with little reddening. They provide two opportunities to use ACS for placing the calibration of H_0 via SN Ia on firmer footing and potentially improve its precision.

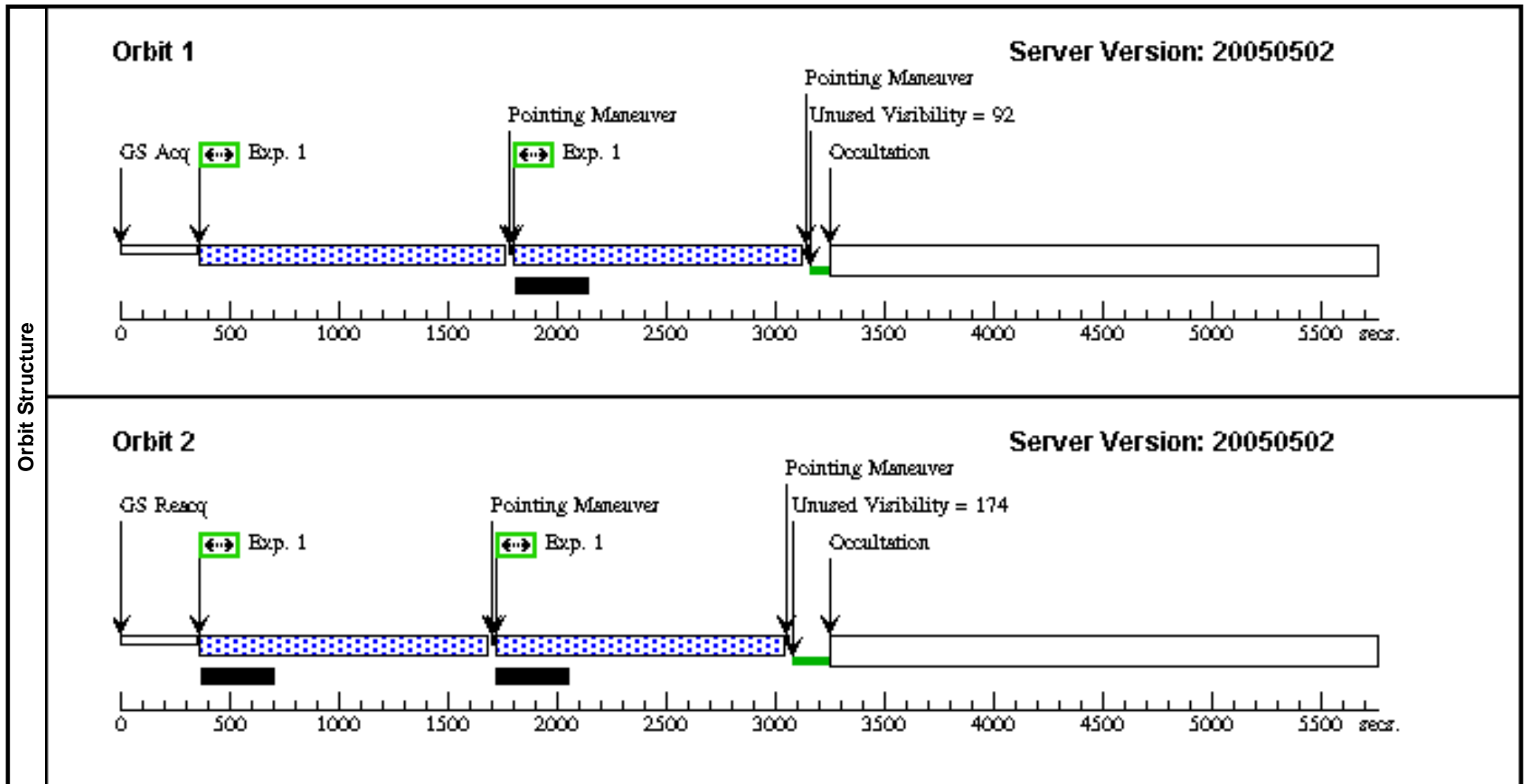
OBSERVING DESCRIPTION

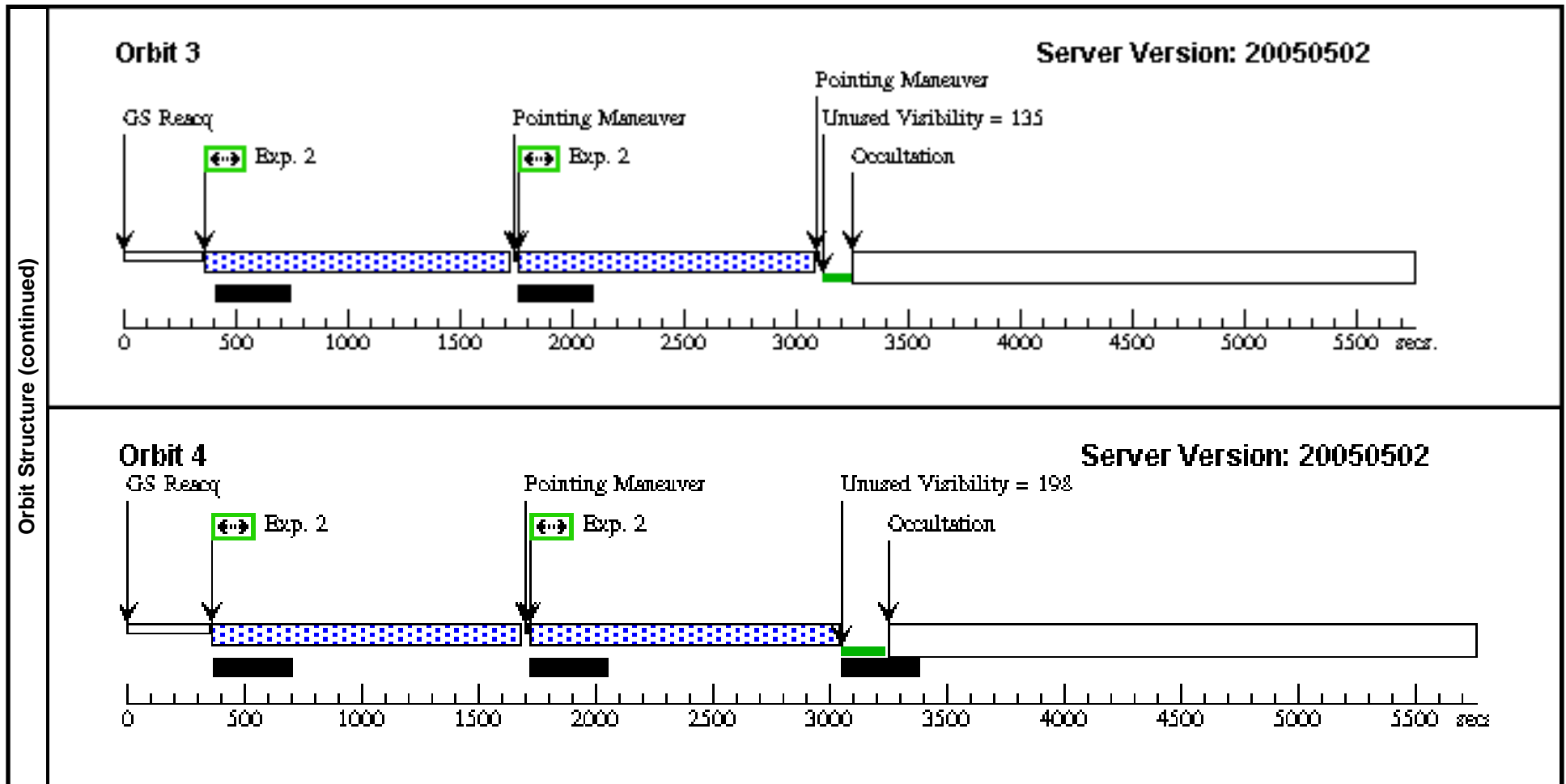
Observe Cepheid light curve to calibrate SN Ia, H_0

Proposal 10497 - Visit 01 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Mon Jun 20 18:12:02 GMT 2005

Visit	Proposal 10497, Visit 01 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 267.0D TO 267.0 D; BETWEEN 06-AUG-2005:00:00:00 AND 07-AUG-2005:00:00:00									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false	(1), (2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1309	RA: 03 22 5.2880 (50.5220333d) Dec: -15 23 49.34 (-15.39704d) Equinox: J2000 Plate Id: (?)		V=12.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
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									[=>(Pattern 1,2)]	[2]
									[=>(Pattern 2,1)]	[3]
									[=>(Pattern 2,2)]	[4]
2		(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	1200.0 Secs		
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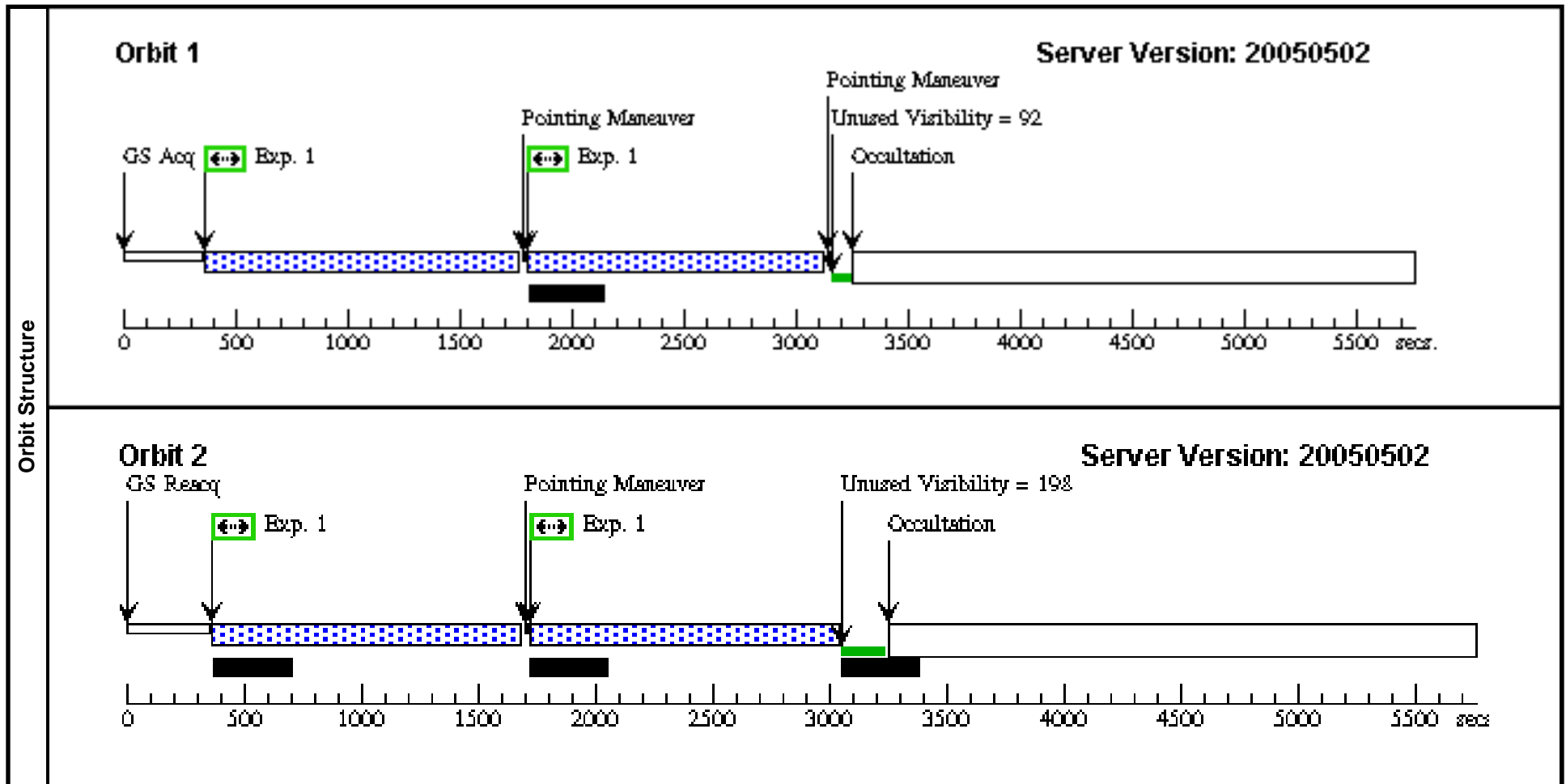




Proposal 10497 - Visit 02 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Mon Jun 20 18:12:06 GMT 2005

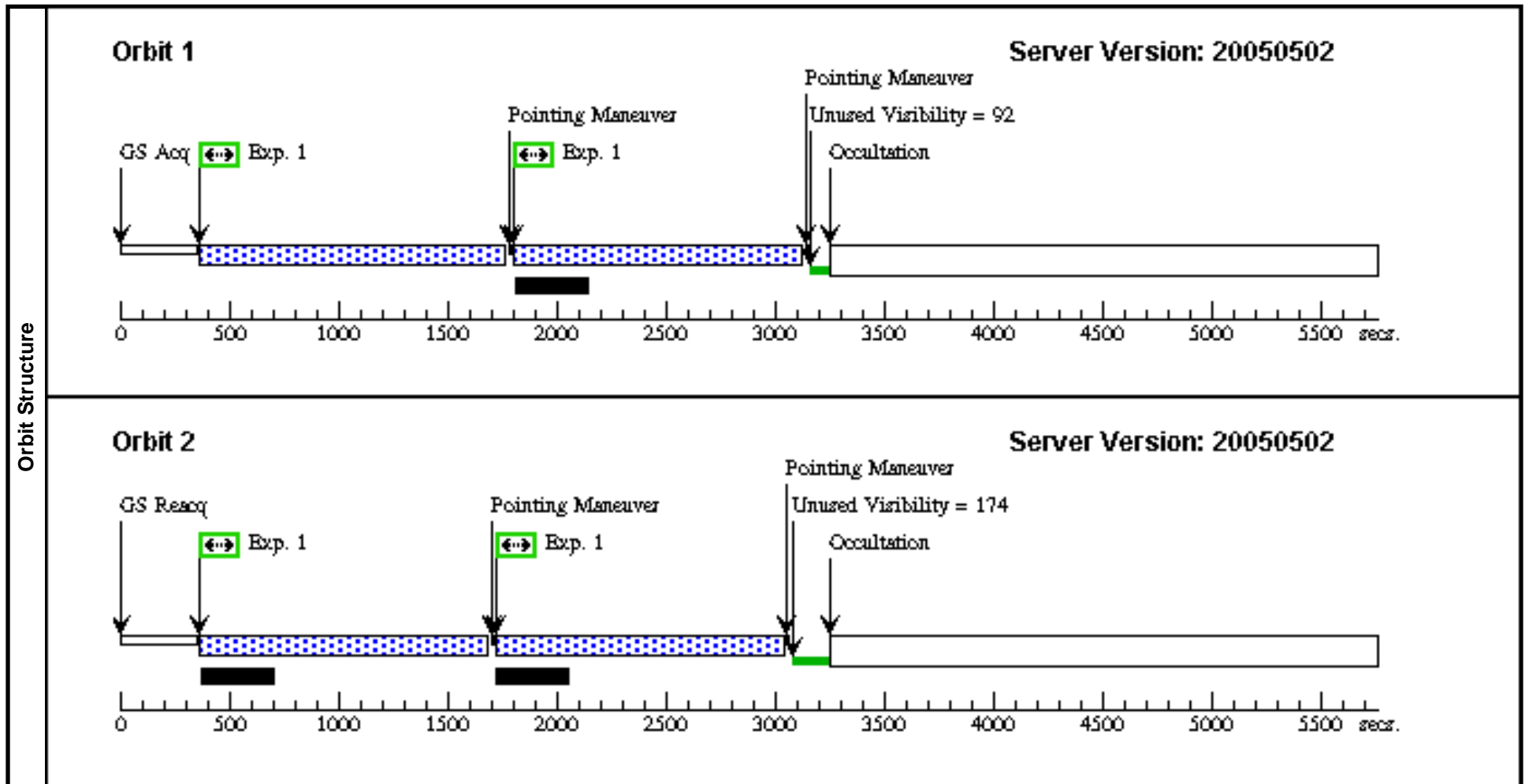
Visit	Proposal 10497, Visit 02 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 267.0D TO 267.0 D; AFTER 01 BY 10 D TO 12 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false		(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1309	RA: 03 22 5.2880 (50.5220333d) Dec: -15 23 49.34 (-15.39704d) Equinox: J2000 Plate Id: (?)		V=12.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
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									[=>(Pattern 1,2)]	
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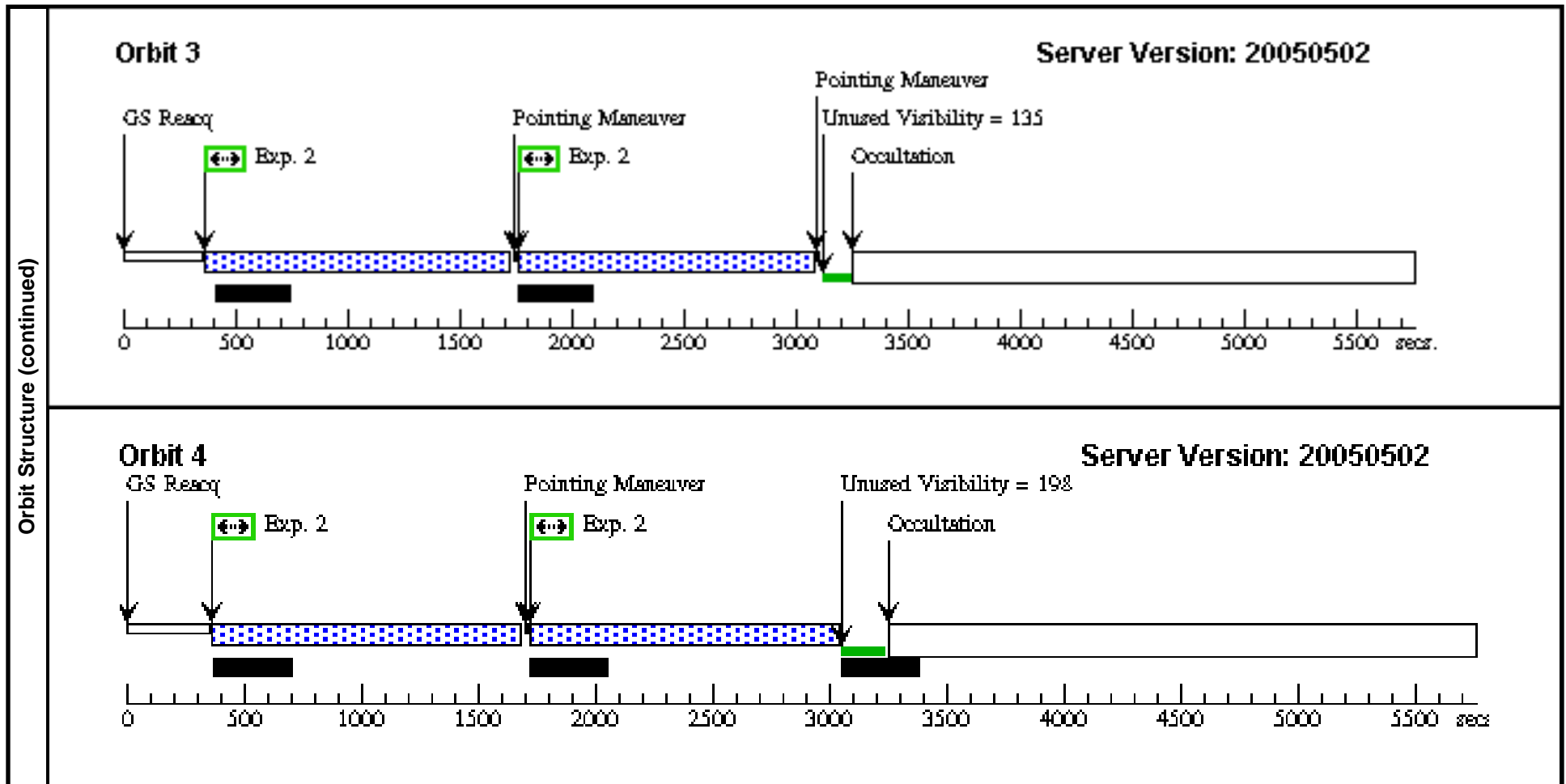


Proposal 10497 - Visit 03 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Mon Jun 20 18:12:07 GMT 2005

Visit	Proposal 10497, Visit 03 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 267.0D TO 267.0 D; AFTER 01 BY 16.6 D TO 18.6 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false		(1), (2)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1309	RA: 03 22 5.2880 (50.5220333d) Dec: -15 23 49.34 (-15.39704d) Equinox: J2000 Plate Id: (?)		V=12.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) NGC-1309	(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
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									[==>(Pattern 1,2)]	
									[==>(Pattern 2,1)]	[2]
									[==>(Pattern 2,2)]	
2	(2) NGC-1309	(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	1200.0 Secs		
								[==>(Pattern 1,1)]	[3]	
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								[==>(Pattern 2,1)]	[4]	
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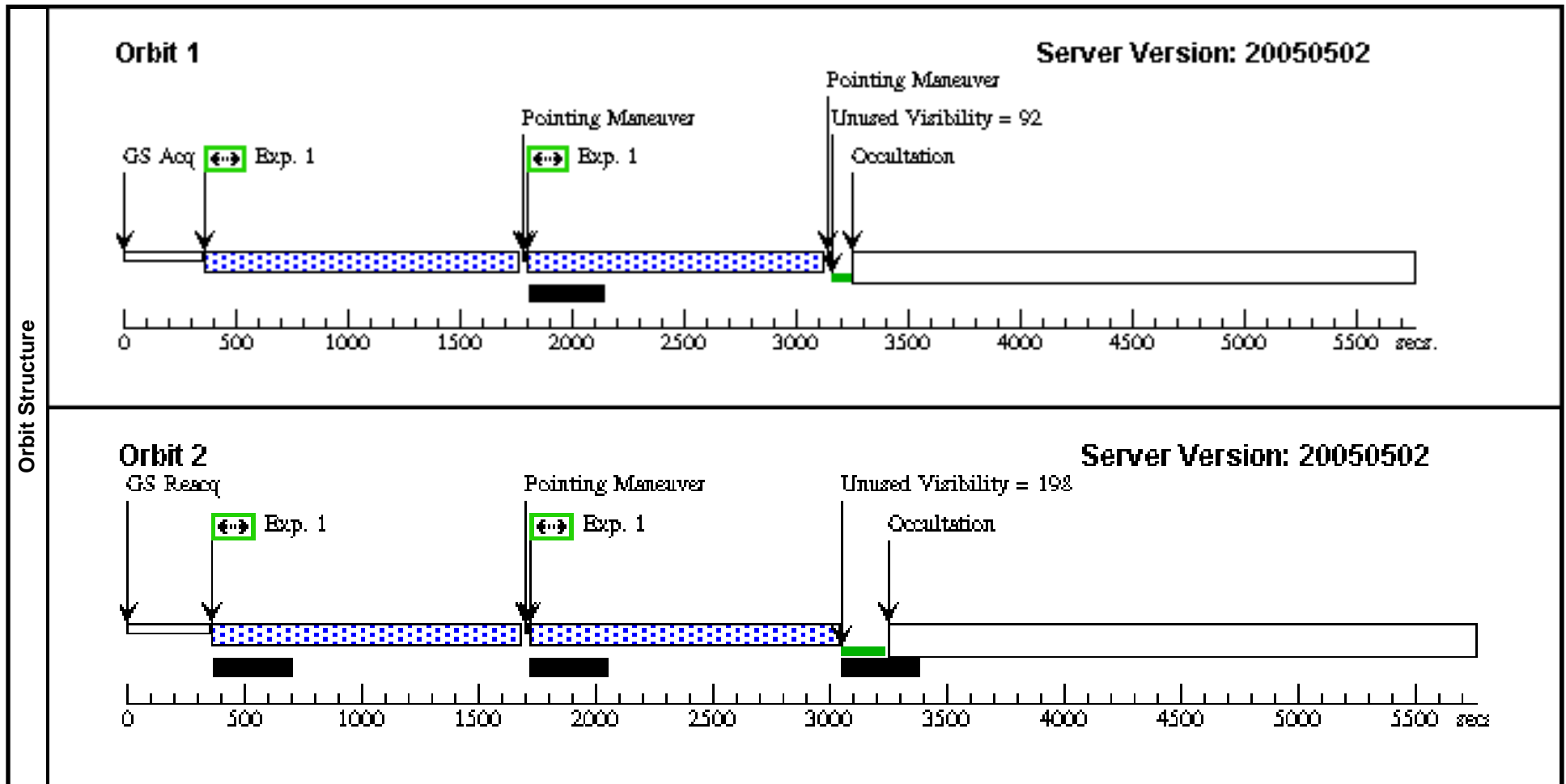




Proposal 10497 - Visit 04 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Mon Jun 20 18:12:11 GMT 2005

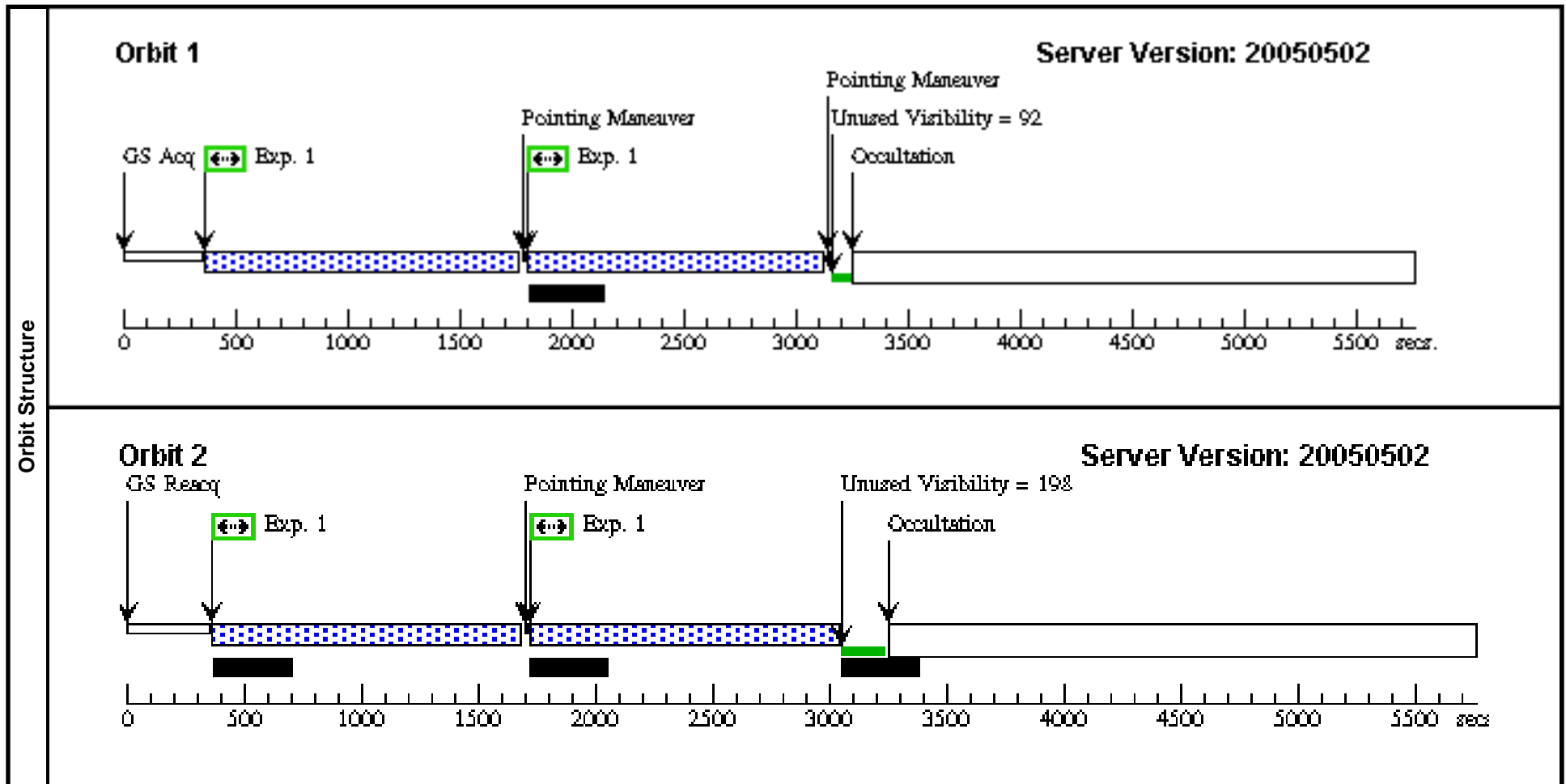
Visit	Proposal 10497, Visit 04 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 267.0D TO 267.0 D; AFTER 01 BY 21 D TO 23 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false		(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1309	RA: 03 22 5.2880 (50.5220333d) Dec: -15 23 49.34 (-15.39704d) Equinox: J2000 Plate Id: (?)		V=12.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
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Proposal 10497 - Visit 05 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Mon Jun 20 18:12:13 GMT 2005

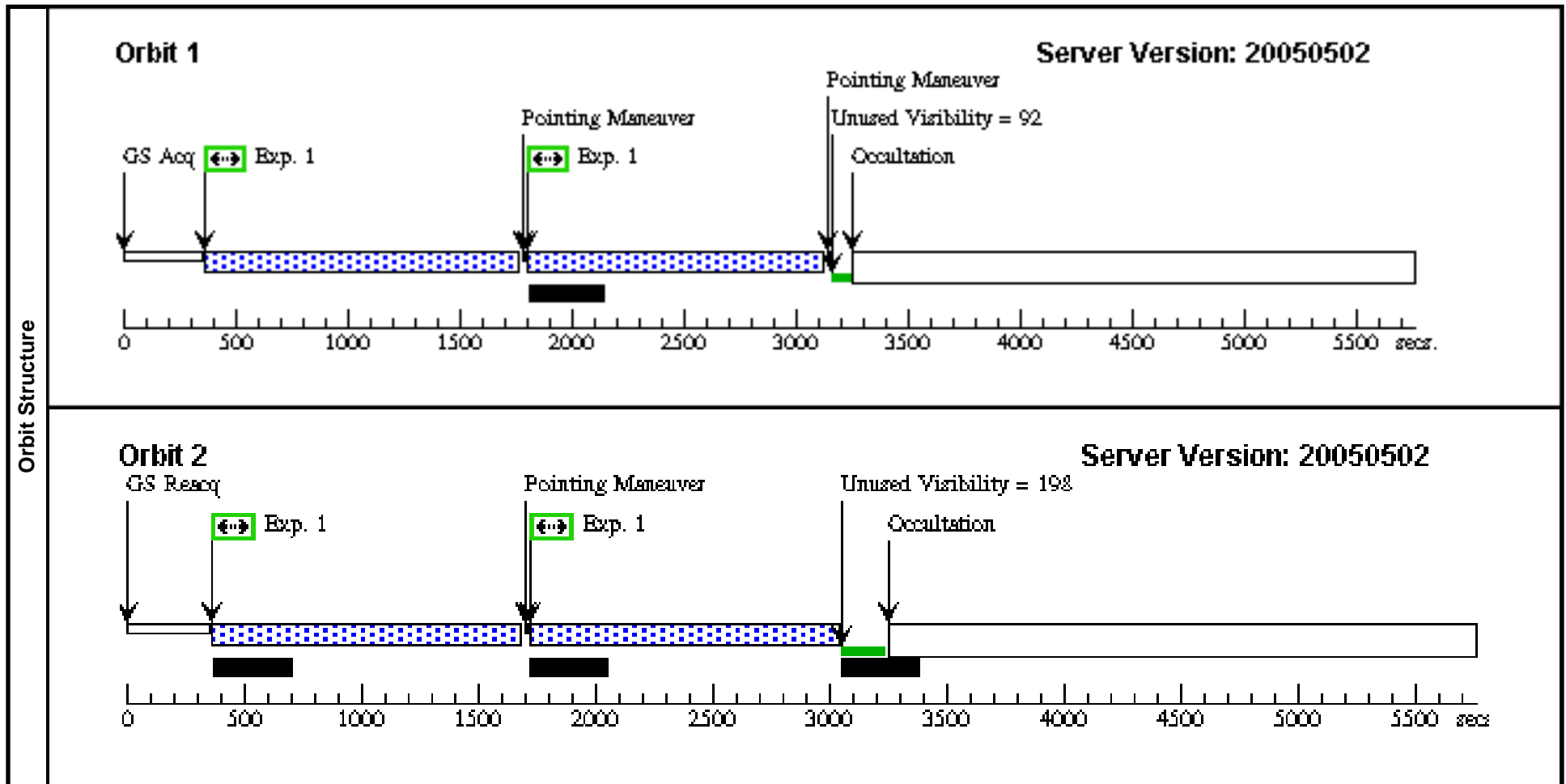
Visit	Proposal 10497, Visit 05 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 267.0D TO 267.0 D; AFTER 01 BY 25.1 D TO 27.1 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false		(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1309	RA: 03 22 5.2880 (50.5220333d) Dec: -15 23 49.34 (-15.39704d) Equinox: J2000 Plate Id: (?)		V=12.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
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Proposal 10497 - Visit 06 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

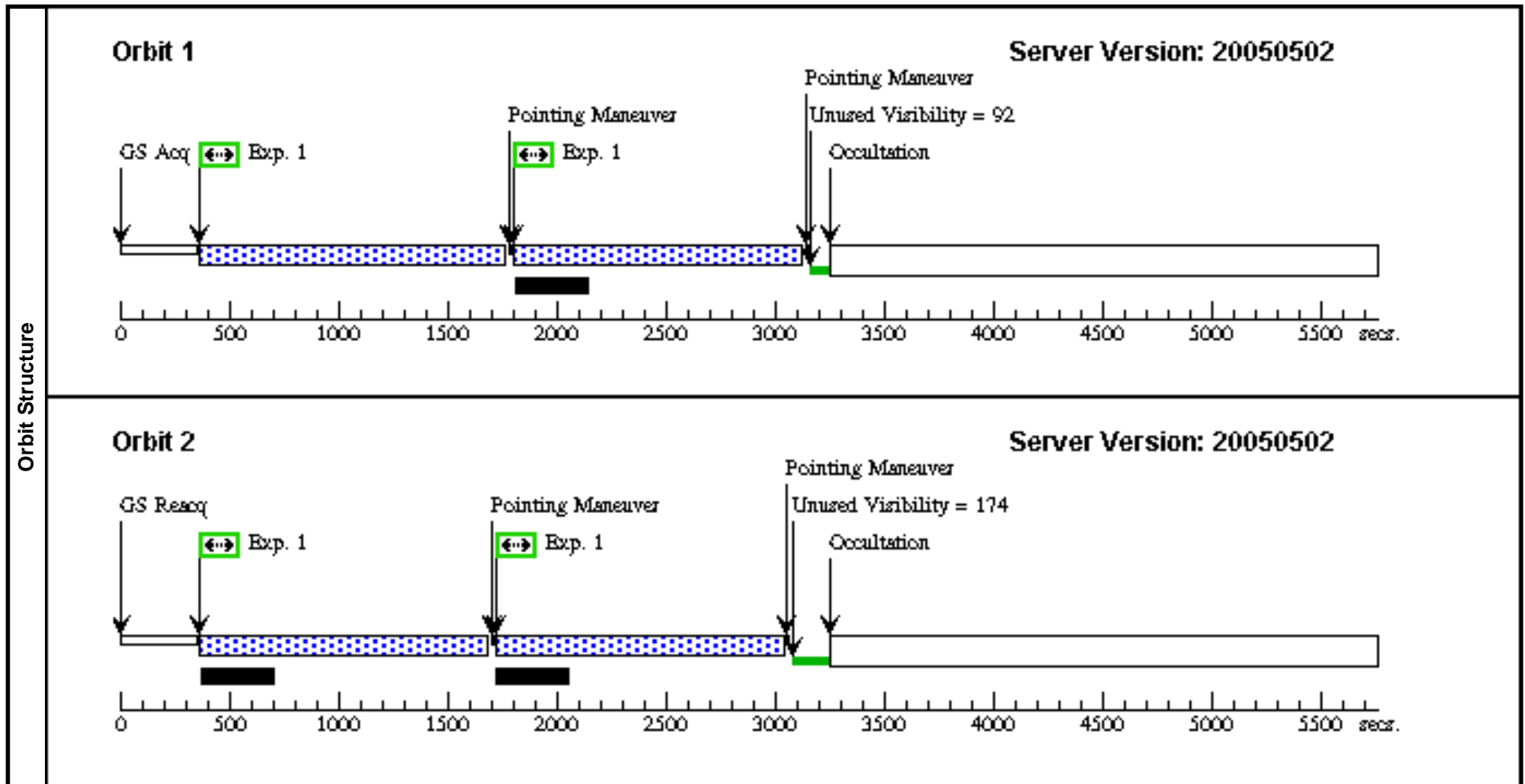
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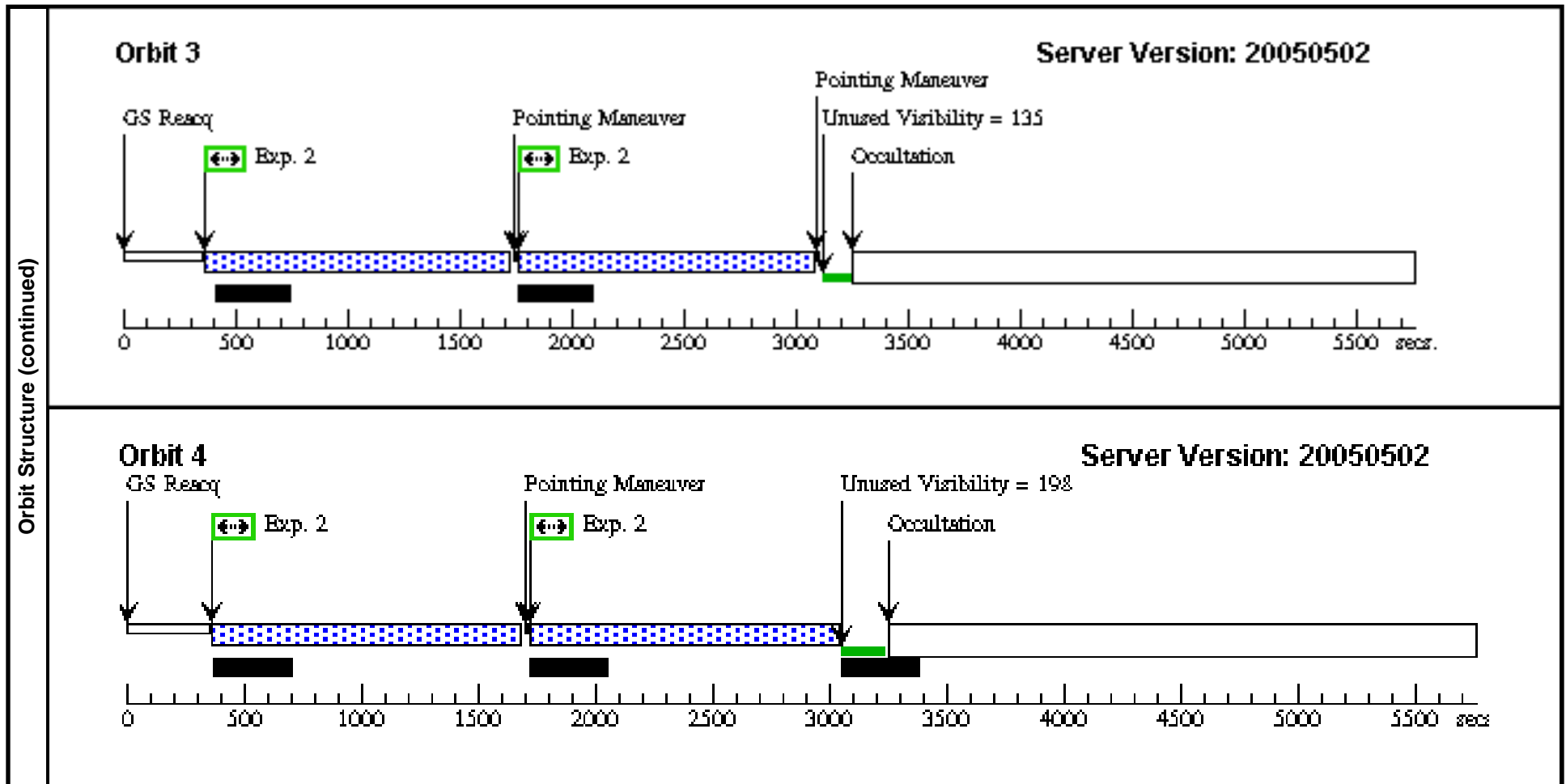
Visit	Proposal 10497, Visit 06 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 267.0D TO 267.0 D; AFTER 01 BY 27.8 D TO 29.8 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false		(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1309	RA: 03 22 5.2880 (50.5220333d) Dec: -15 23 49.34 (-15.39704d) Equinox: J2000 Plate Id: (?)		V=12.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) NGC-1309		ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
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Proposal 10497 - Visit 07 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Visit	Proposal 10497, Visit 07 Mon Jun 20 18:12:16 GMT 2005 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 267.0D TO 267.0 D; AFTER 01 BY 29.8 D TO 31.8 D Comments: try to do in the middle of after dates same guide stars as visit 1 same orient as visit 1									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false	(1), (2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1309	RA: 03 22 5.2880 (50.5220333d) Dec: -15 23 49.34 (-15.39704d) Equinox: J2000 Plate Id: (?)		V=12.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2			Pattern 1-1 (1)	1200.0 Secs	
									[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	
									[==>(Pattern 2,1)]	[2]
									[==>(Pattern 2,2)]	
2	(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2				Pattern 2-2 (1)	1200.0 Secs	
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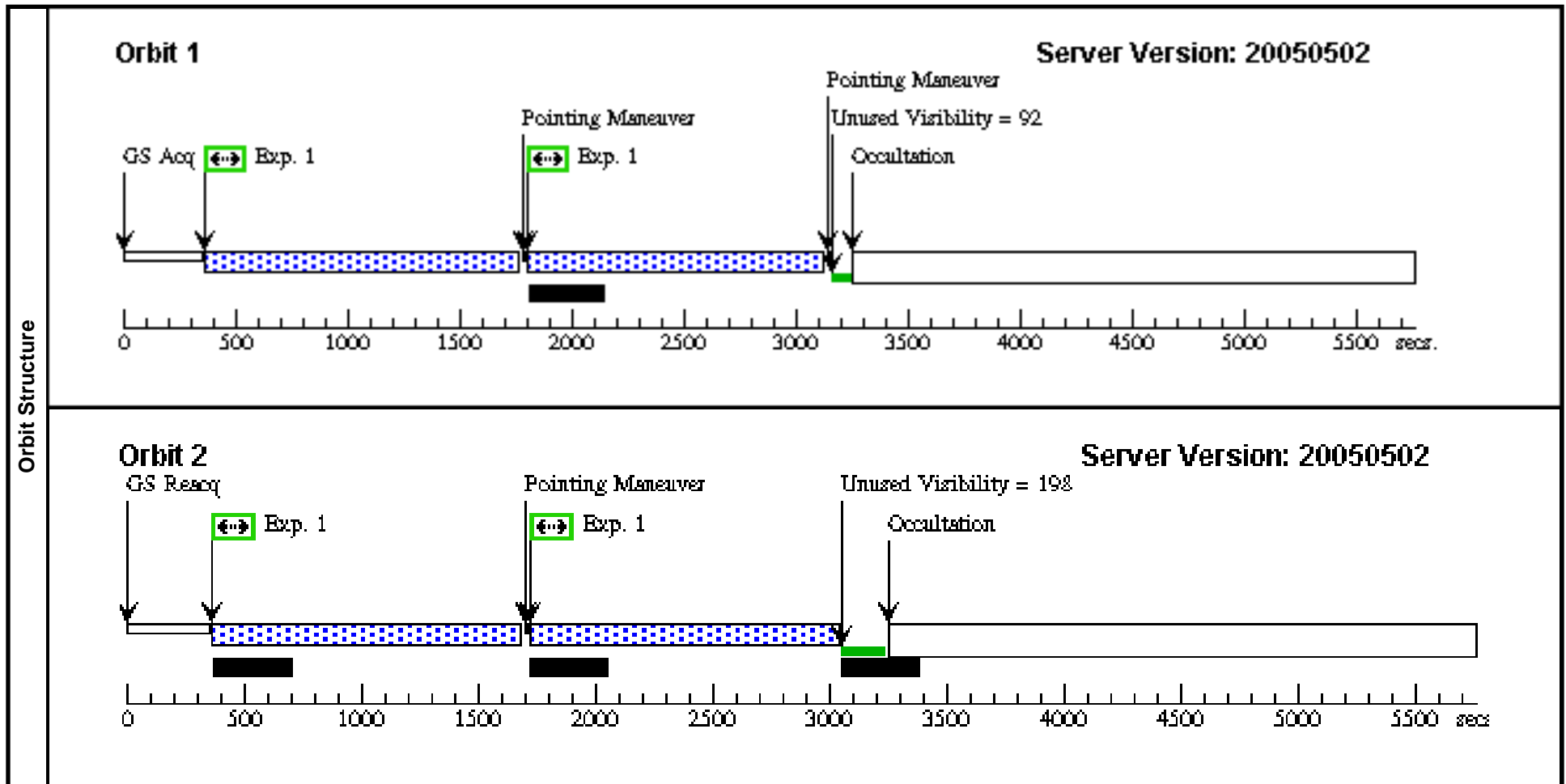




Proposal 10497 - Visit 08 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Mon Jun 20 18:12:22 GMT 2005

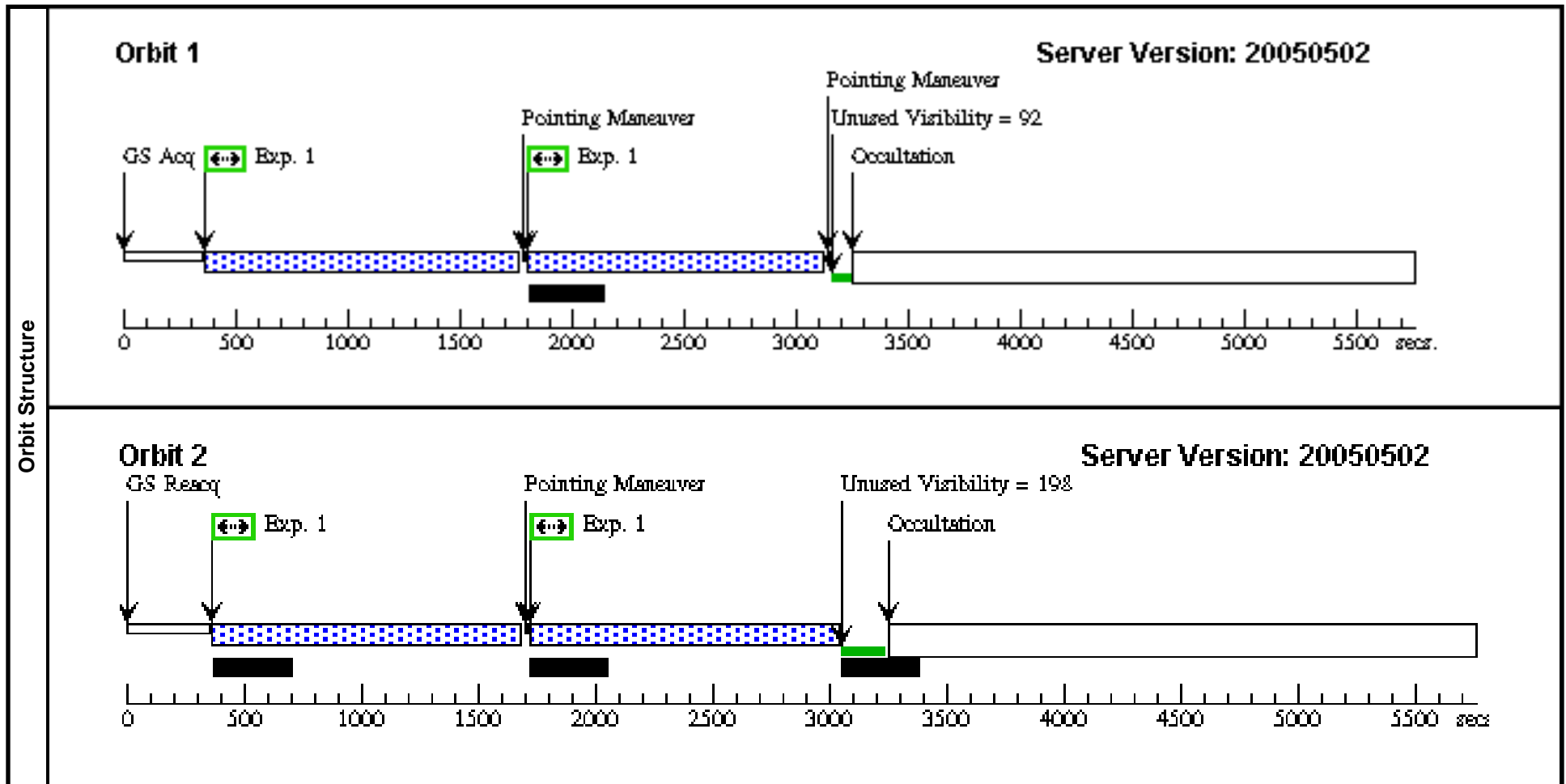
Visit	Proposal 10497, Visit 08 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 267.0D TO 267.0 D; AFTER 01 BY 32.1 D TO 34.1 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false		(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1309	RA: 03 22 5.2880 (50.5220333d) Dec: -15 23 49.34 (-15.39704d) Equinox: J2000 Plate Id: (?)		V=12.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
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Proposal 10497 - Visit 09 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Mon Jun 20 18:12:25 GMT 2005

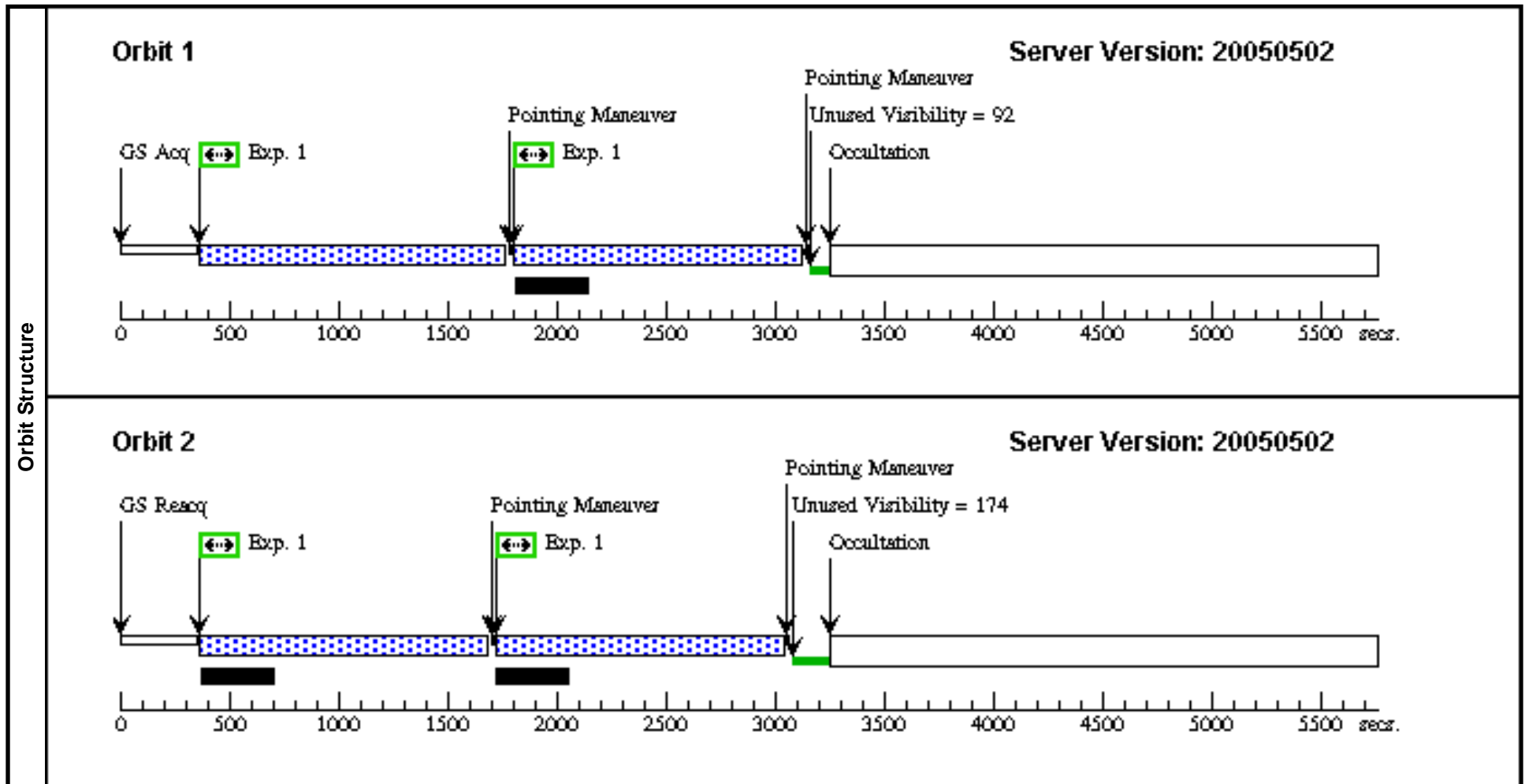
Visit	Proposal 10497, Visit 09 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 267.0D TO 267.0 D; AFTER 01 BY 35.2 D TO 37.2 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false		(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1309	RA: 03 22 5.2880 (50.5220333d) Dec: -15 23 49.34 (-15.39704d) Equinox: J2000 Plate Id: (?)		V=12.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
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									[=>(Pattern 2,1)]	[2]
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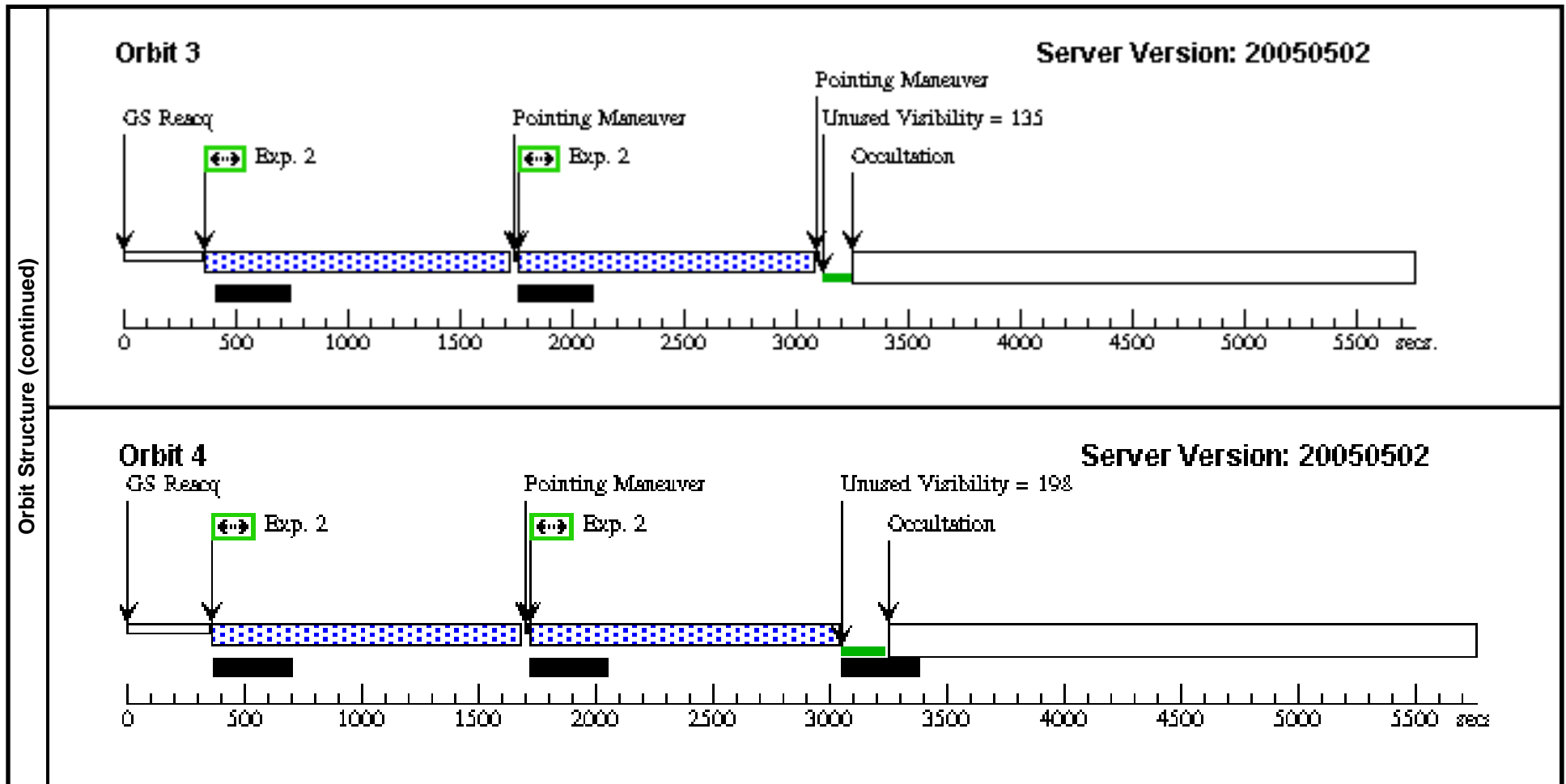


Proposal 10497 - Visit 10 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Mon Jun 20 18:12:26 GMT 2005

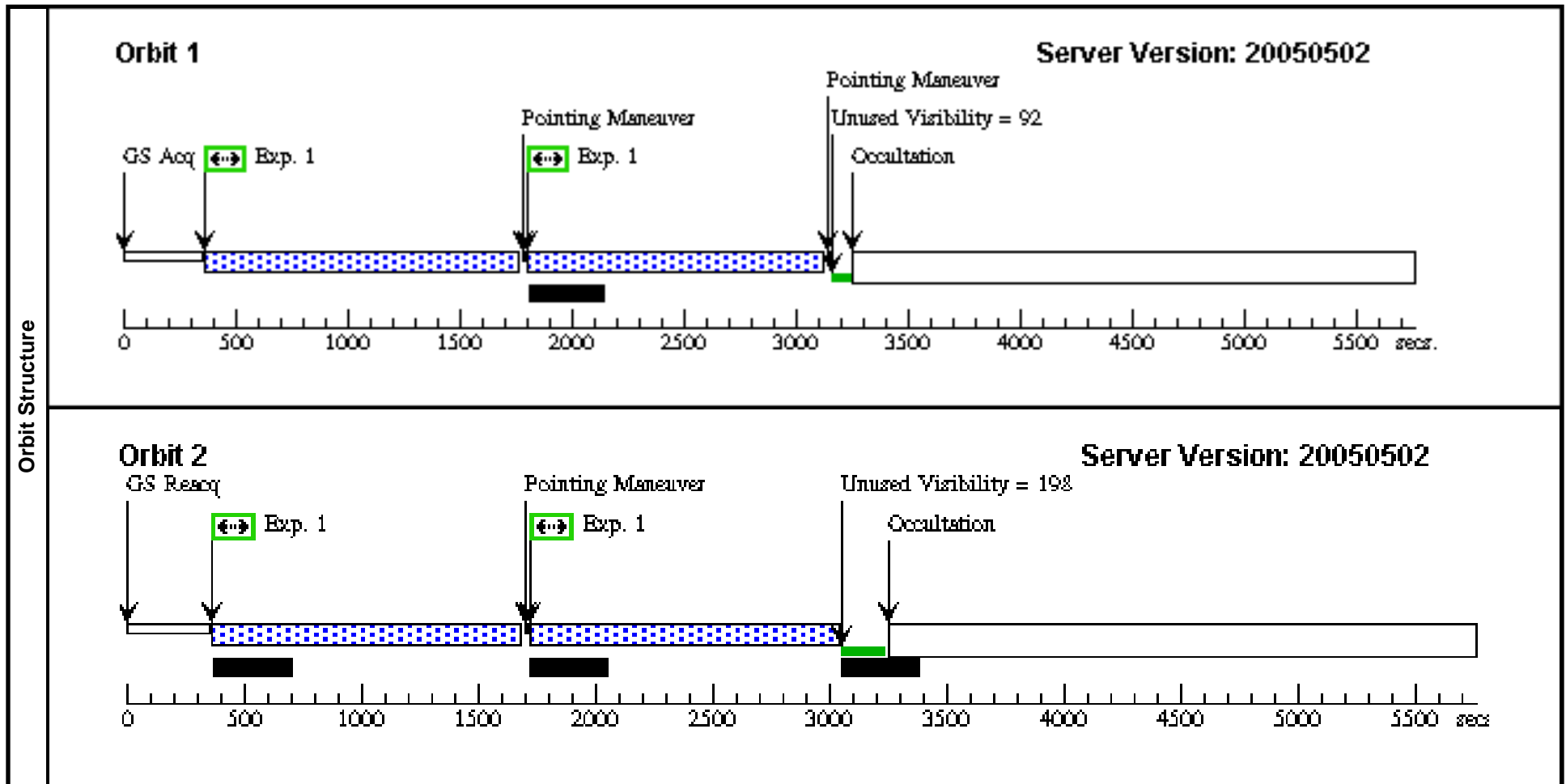
Visit	Proposal 10497, Visit 10 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 267.0D TO 267.0 D; AFTER 01 BY 39.4 D TO 41.4 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false		(1), (2)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1309	RA: 03 22 5.2880 (50.5220333d) Dec: -15 23 49.34 (-15.39704d) Equinox: J2000 Plate Id: (?)		V=12.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) NGC-1309	(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
									[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	
									[==>(Pattern 2,1)]	[2]
									[==>(Pattern 2,2)]	
2	(2) NGC-1309	(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	1200.0 Secs		
								[==>(Pattern 1,1)]	[3]	
								[==>(Pattern 1,2)]		
								[==>(Pattern 2,1)]	[4]	
								[==>(Pattern 2,2)]		





Proposal 10497 - Visit 11 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

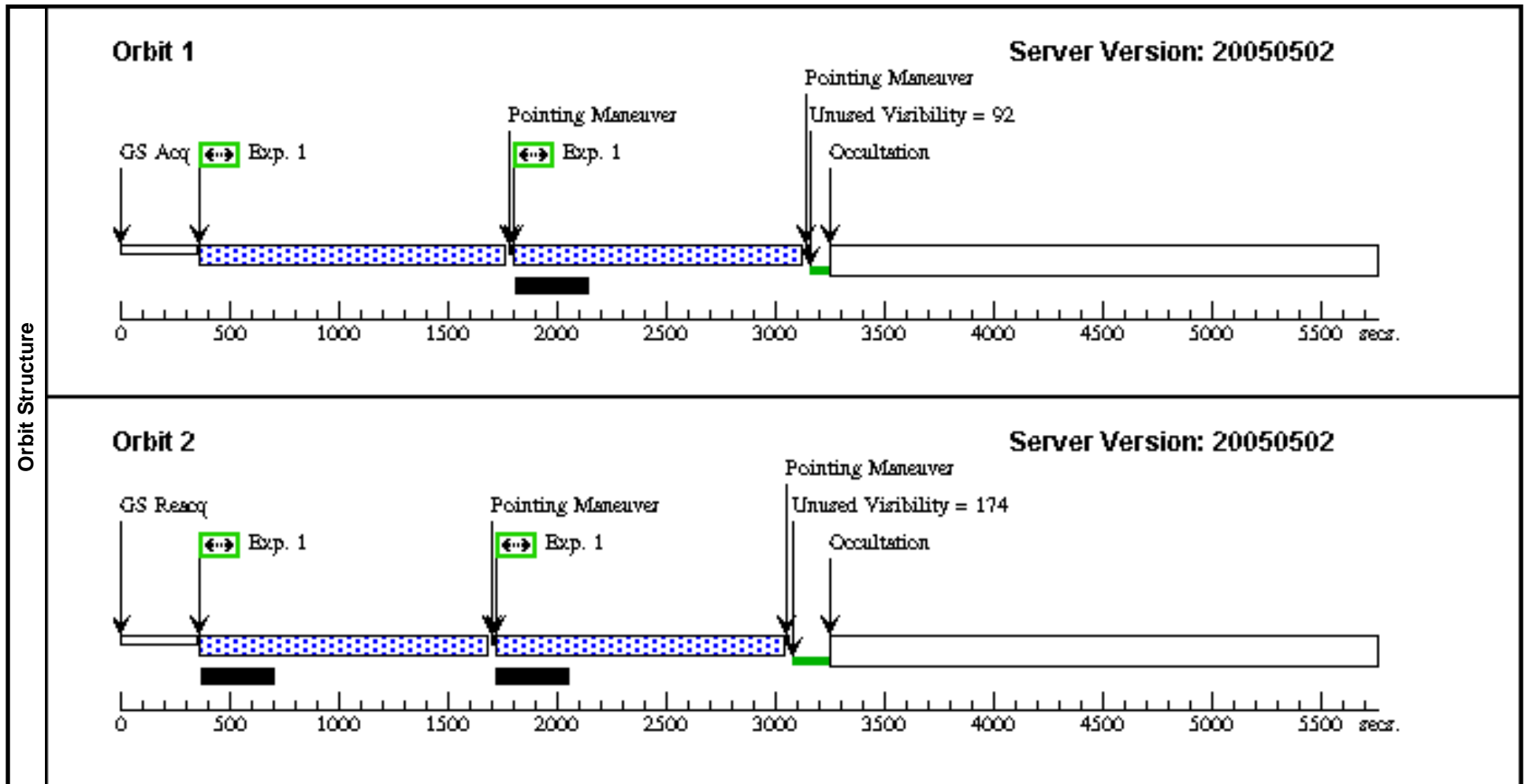
Visit	Proposal 10497, Visit 11 Mon Jun 20 18:12:29 GMT 2005 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 267.0D TO 267.0 D; AFTER 01 BY 44.2 D TO 46.2 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1309	RA: 03 22 5.2880 (50.5220333d) Dec: -15 23 49.34 (-15.39704d) Equinox: J2000 Plate Id: (?)		V=12.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	
									[=>(Pattern 2,1)]	[2]
									[=>(Pattern 2,2)]	

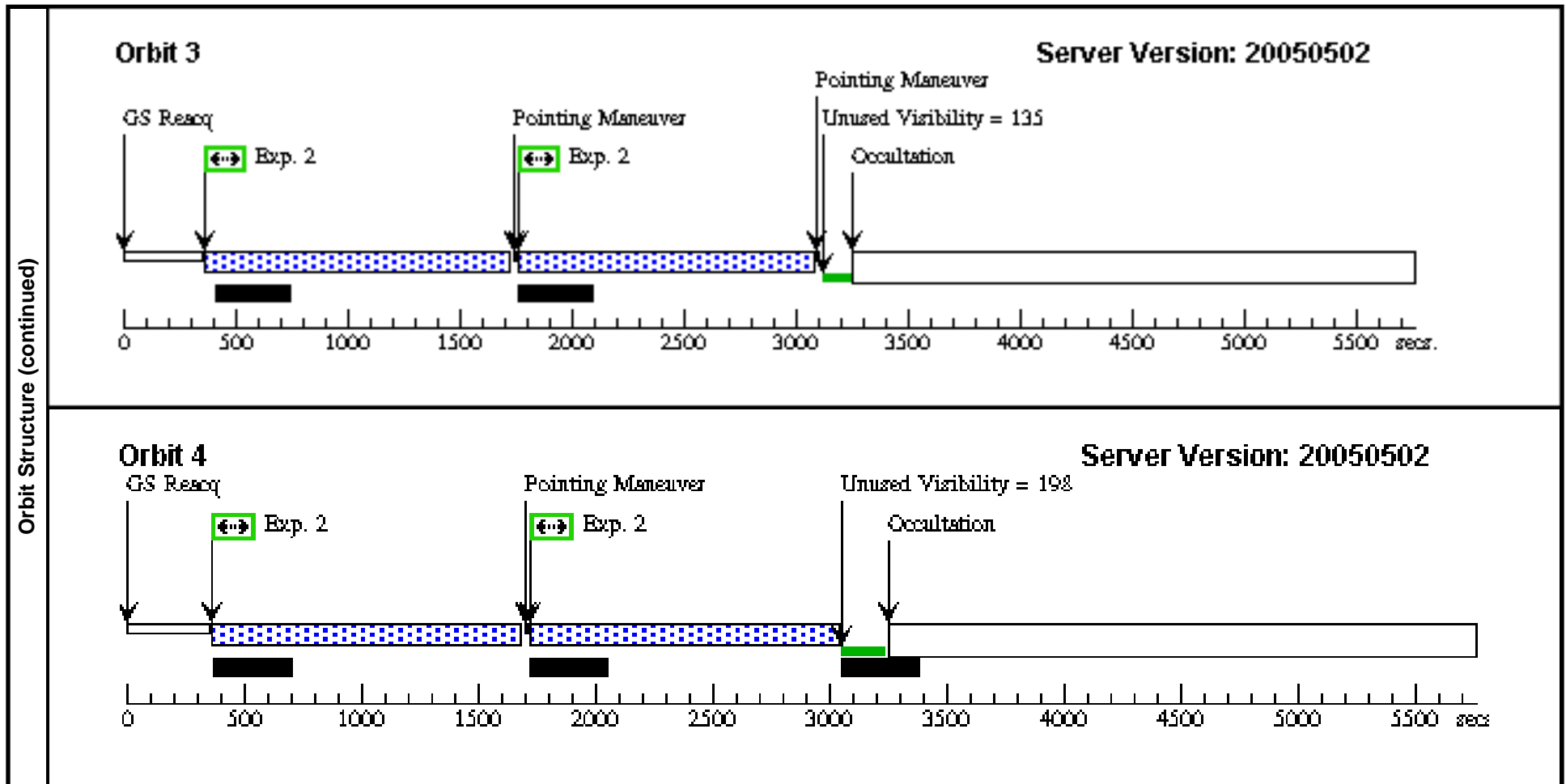


Proposal 10497 - Visit 12 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Mon Jun 20 18:12:30 GMT 2005

Visit	Proposal 10497, Visit 12 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 267.0D TO 267.0 D; AFTER 01 BY 51.5 D TO 53.5 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false		(1), (2)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-1309	RA: 03 22 5.2880 (50.5220333d) Dec: -15 23 49.34 (-15.39704d) Equinox: J2000 Plate Id: (?)		V=12.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) NGC-1309	(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
									[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	
									[==>(Pattern 2,1)]	[2]
									[==>(Pattern 2,2)]	
2	(2) NGC-1309	(2) NGC-1309	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	1200.0 Secs		
								[==>(Pattern 1,1)]	[3]	
								[==>(Pattern 1,2)]		
								[==>(Pattern 2,1)]	[4]	
								[==>(Pattern 2,2)]		

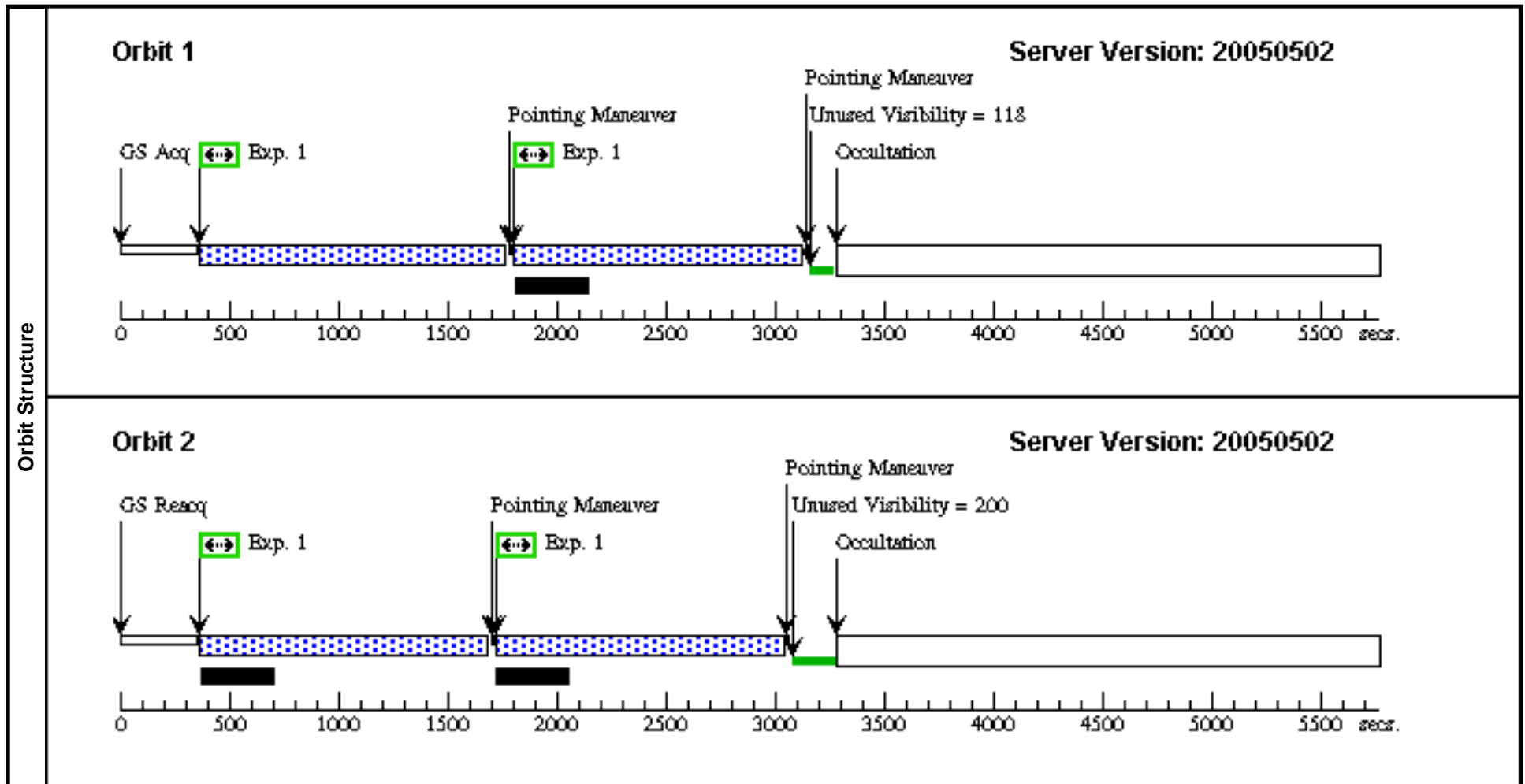


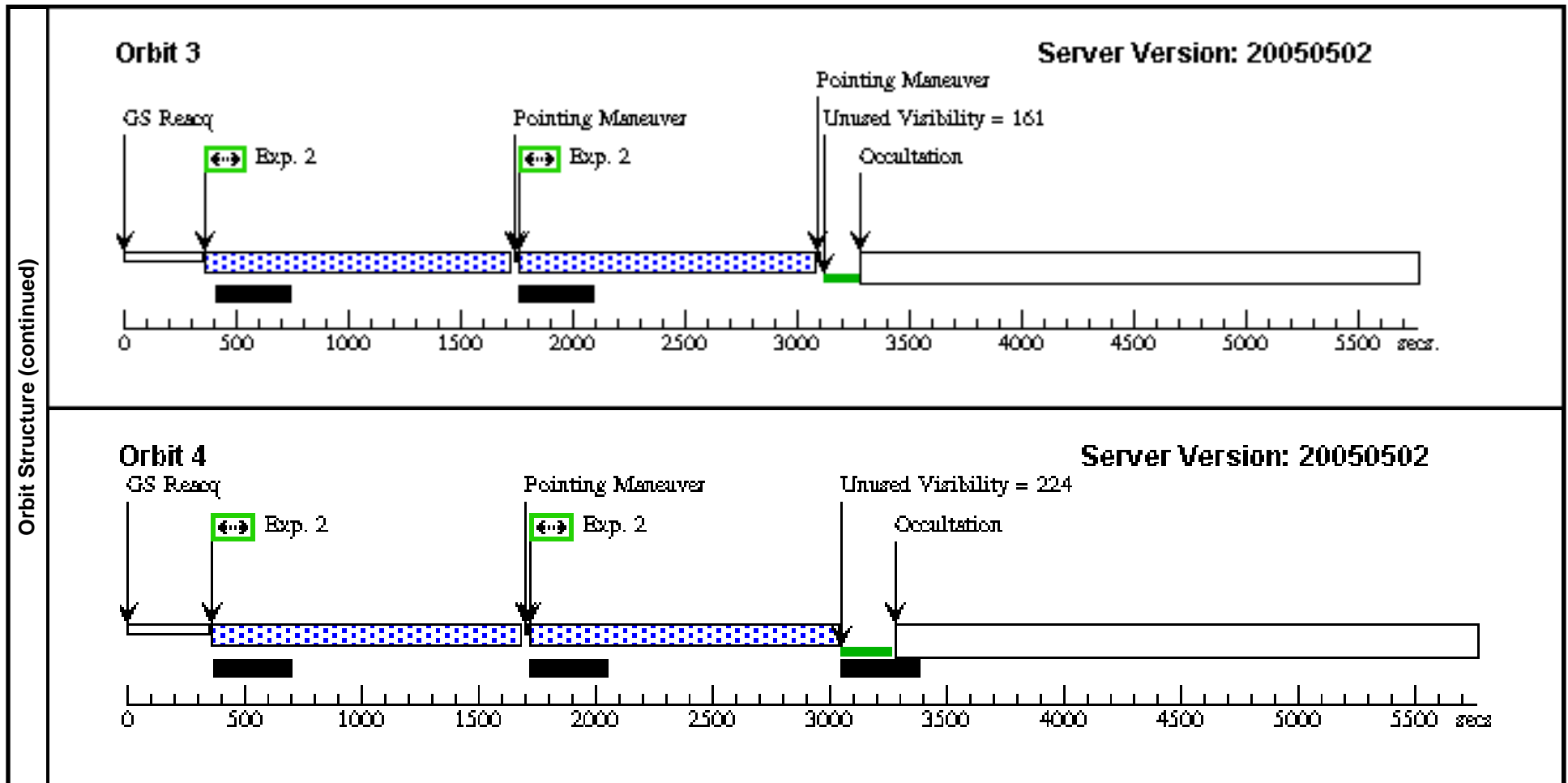


Proposal 10497 - Visit 13 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Mon Jun 20 18:12:33 GMT 2005

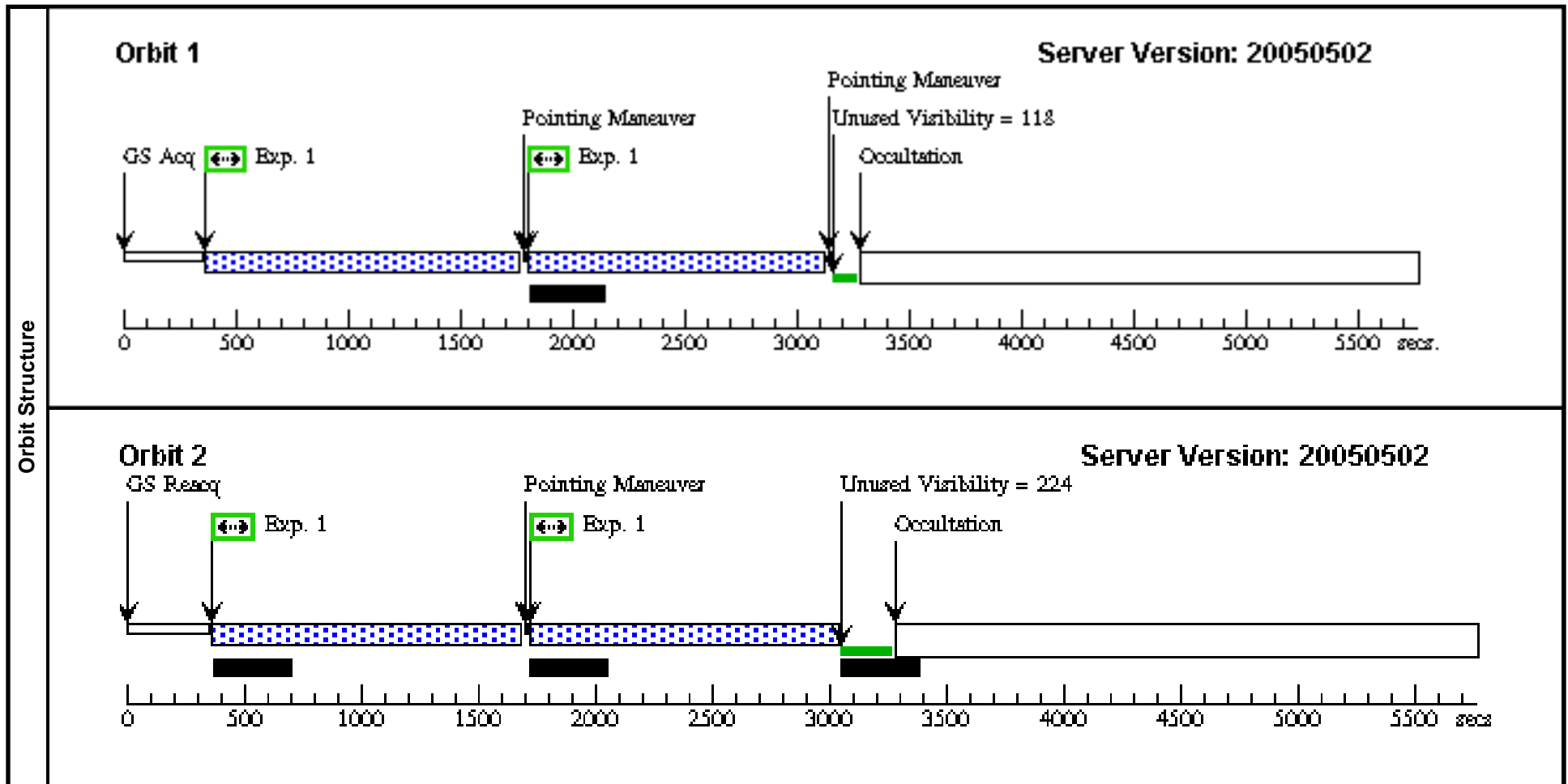
Visit	Proposal 10497, Visit 13 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 277.0D TO 277.0 D; BETWEEN 12-NOV-2005:00:00:00 AND 15-NOV-2005:00:00:00									
	Patterns	#	Primary Pattern				Secondary Pattern			
		(1)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false	(1), (2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-3021	RA: 09 51 0.6644 (147.7527683d) Dec: +33 33 22.51 (33.55625d) Equinox: J2000 Plate Id: (?)		V=13.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	[2]
									[=>(Pattern 2,1)]	[3]
									[=>(Pattern 2,2)]	[4]
2		(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	1200.0 Secs		
								[=>(Pattern 1,1)]	[3]	
								[=>(Pattern 1,2)]	[4]	
								[=>(Pattern 2,1)]	[3]	
								[=>(Pattern 2,2)]	[4]	





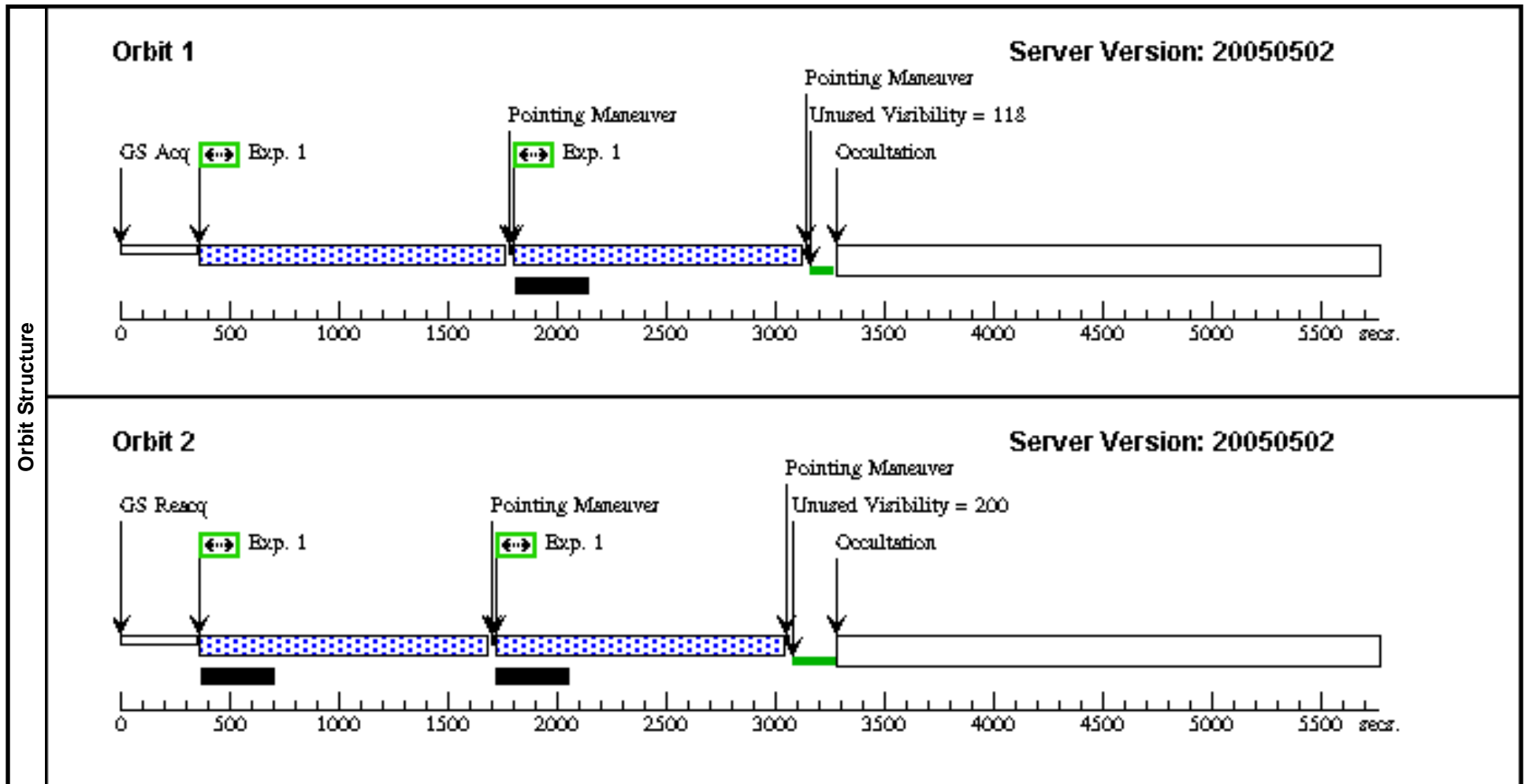
Proposal 10497 - Visit 14 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

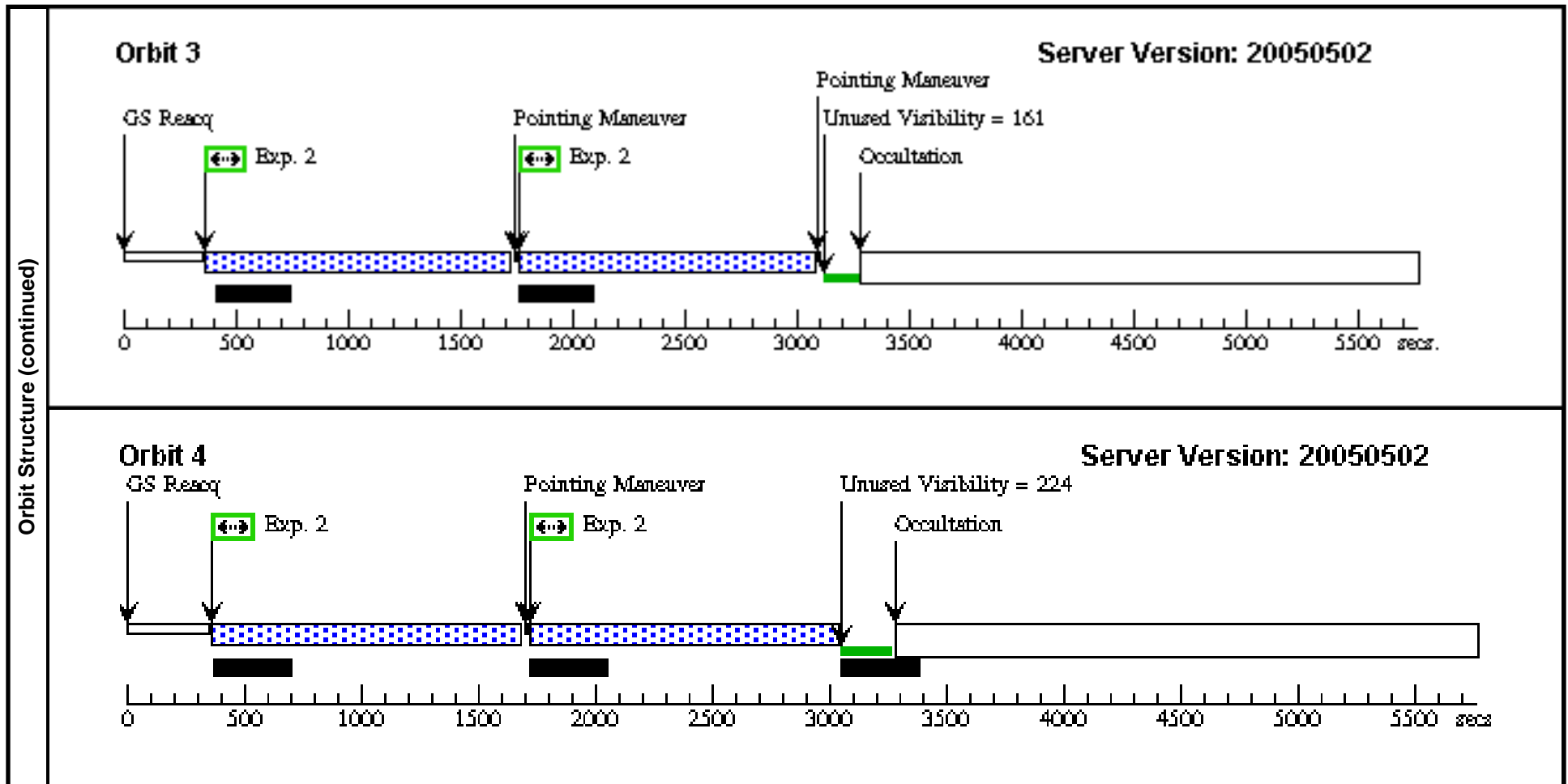
Visit	Proposal 10497, Visit 14 Mon Jun 20 18:12:37 GMT 2005 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 277.0D TO 277.0 D; AFTER 13 BY 10 D TO 12 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-3021	RA: 09 51 0.6644 (147.7527683d) Dec: +33 33 22.51 (33.55625d) Equinox: J2000 Plate Id: (?)		V=13.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	
									[=>(Pattern 2,1)]	[2]
									[=>(Pattern 2,2)]	



Proposal 10497 - Visit 15 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Visit	Proposal 10497, Visit 15 Mon Jun 20 18:12:38 GMT 2005 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 277.0D TO 277.0 D; AFTER 13 BY 16.6 D TO 18.6 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false	(1), (2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-3021	RA: 09 51 0.6644 (147.7527683d) Dec: +33 33 22.51 (33.55625d) Equinox: J2000 Plate Id: (?)		V=13.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) NGC-3021	(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
									[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	
									[==>(Pattern 2,1)]	[2]
									[==>(Pattern 2,2)]	
2	(1) NGC-3021	(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	1200.0 Secs		
								[==>(Pattern 1,1)]	[3]	
								[==>(Pattern 1,2)]		
								[==>(Pattern 2,1)]	[4]	
								[==>(Pattern 2,2)]		

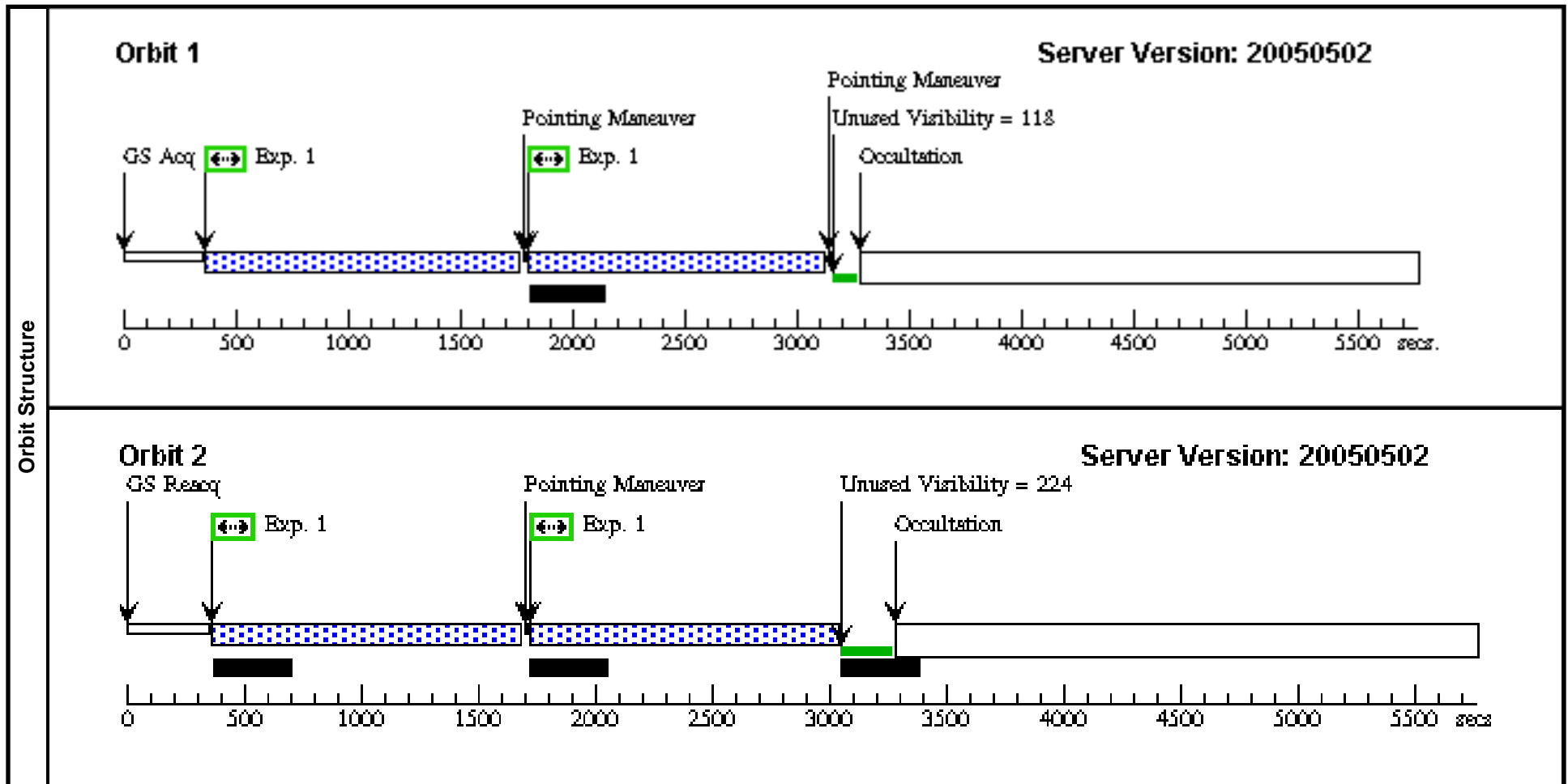




Proposal 10497 - Visit 16 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

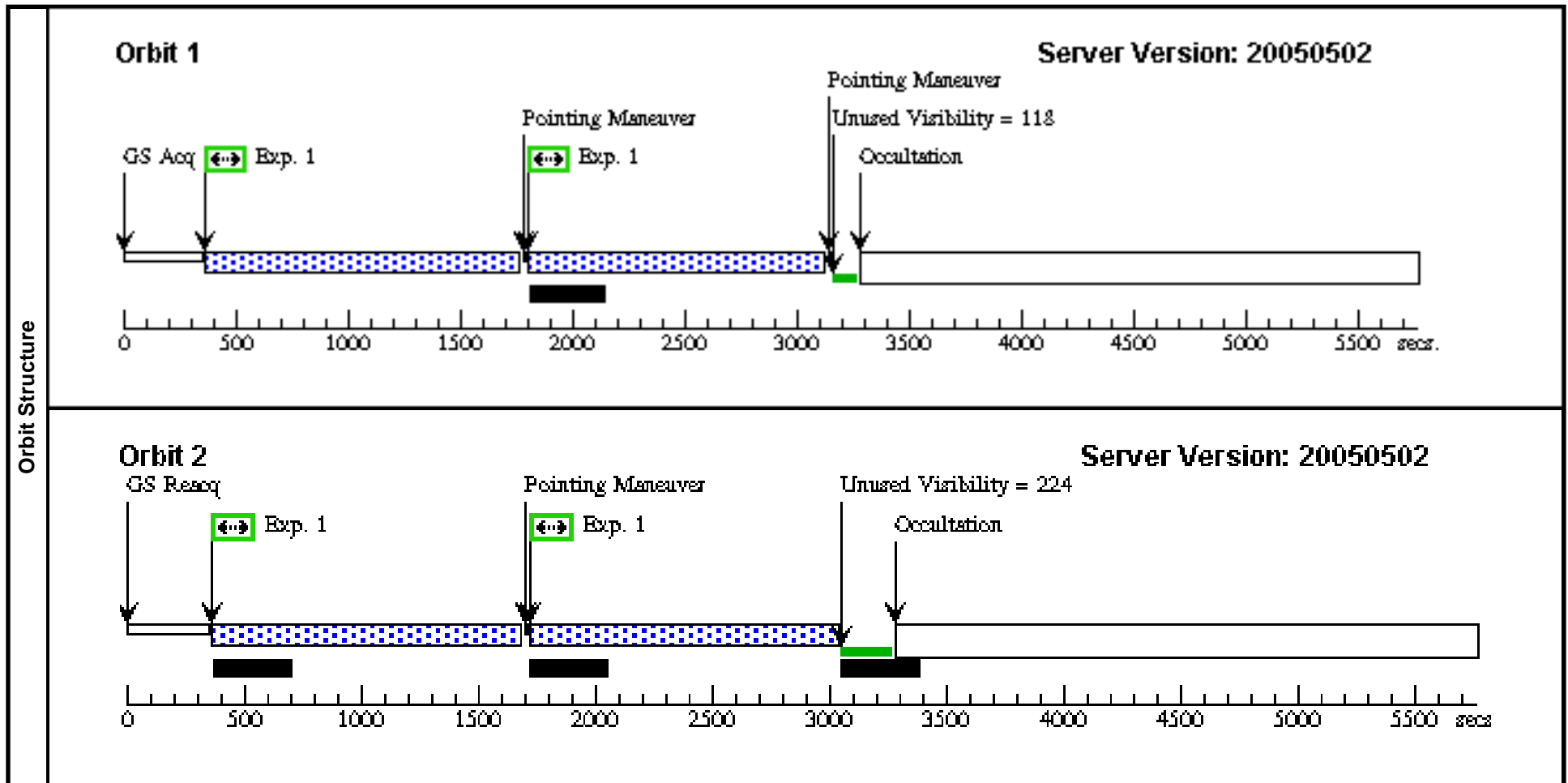
Mon Jun 20 18:12:41 GMT 2005

Visit	Proposal 10497, Visit 16 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 277.0D TO 277.0 D; AFTER 13 BY 21 D TO 23 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-3021	RA: 09 51 0.6644 (147.7527683d) Dec: +33 33 22.51 (33.55625d) Equinox: J2000 Plate Id: (?)		V=13.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) NGC-3021		ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	
								[=>(Pattern 2,1)]		[2]
								[=>(Pattern 2,2)]		



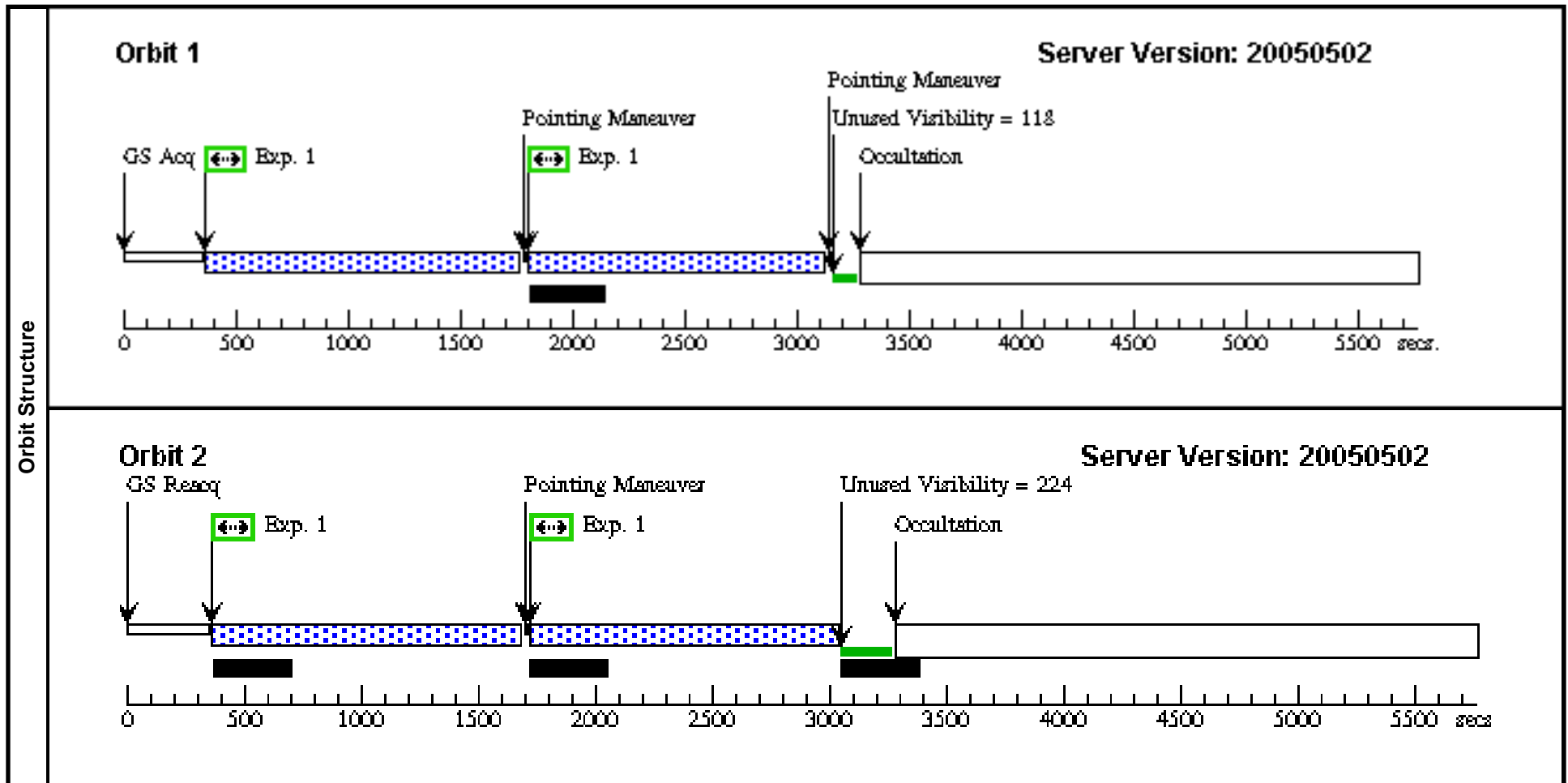
Proposal 10497 - Visit 17 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Visit	Proposal 10497, Visit 17 Mon Jun 20 18:12:42 GMT 2005 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 277.0D TO 277.0 D; AFTER 13 BY 25.1 D TO 27.1 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-3021	RA: 09 51 0.6644 (147.7527683d) Dec: +33 33 22.51 (33.55625d) Equinox: J2000 Plate Id: (?)		V=13.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	
								[=>(Pattern 2,1)]		[2]
								[=>(Pattern 2,2)]		



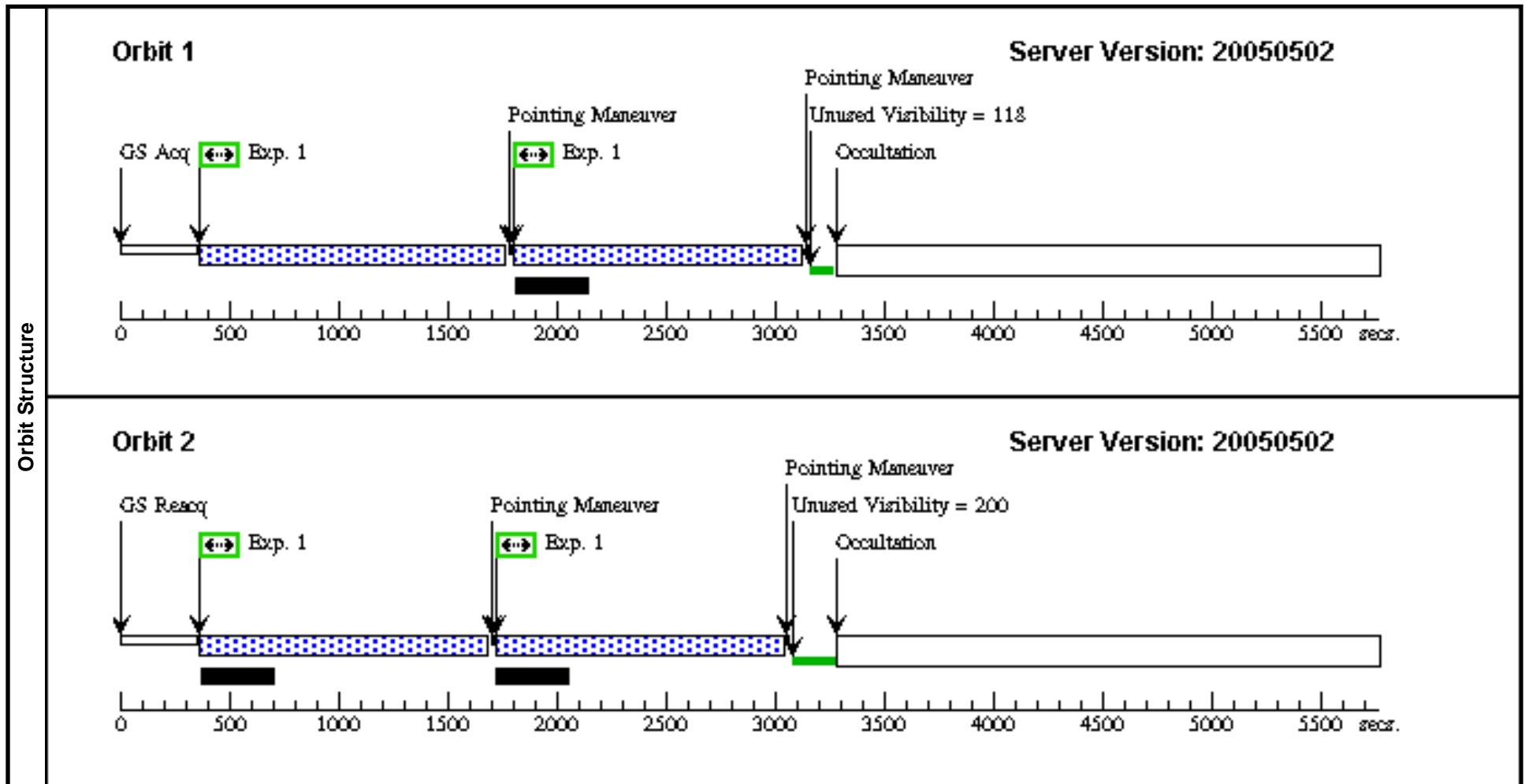
Proposal 10497 - Visit 18 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

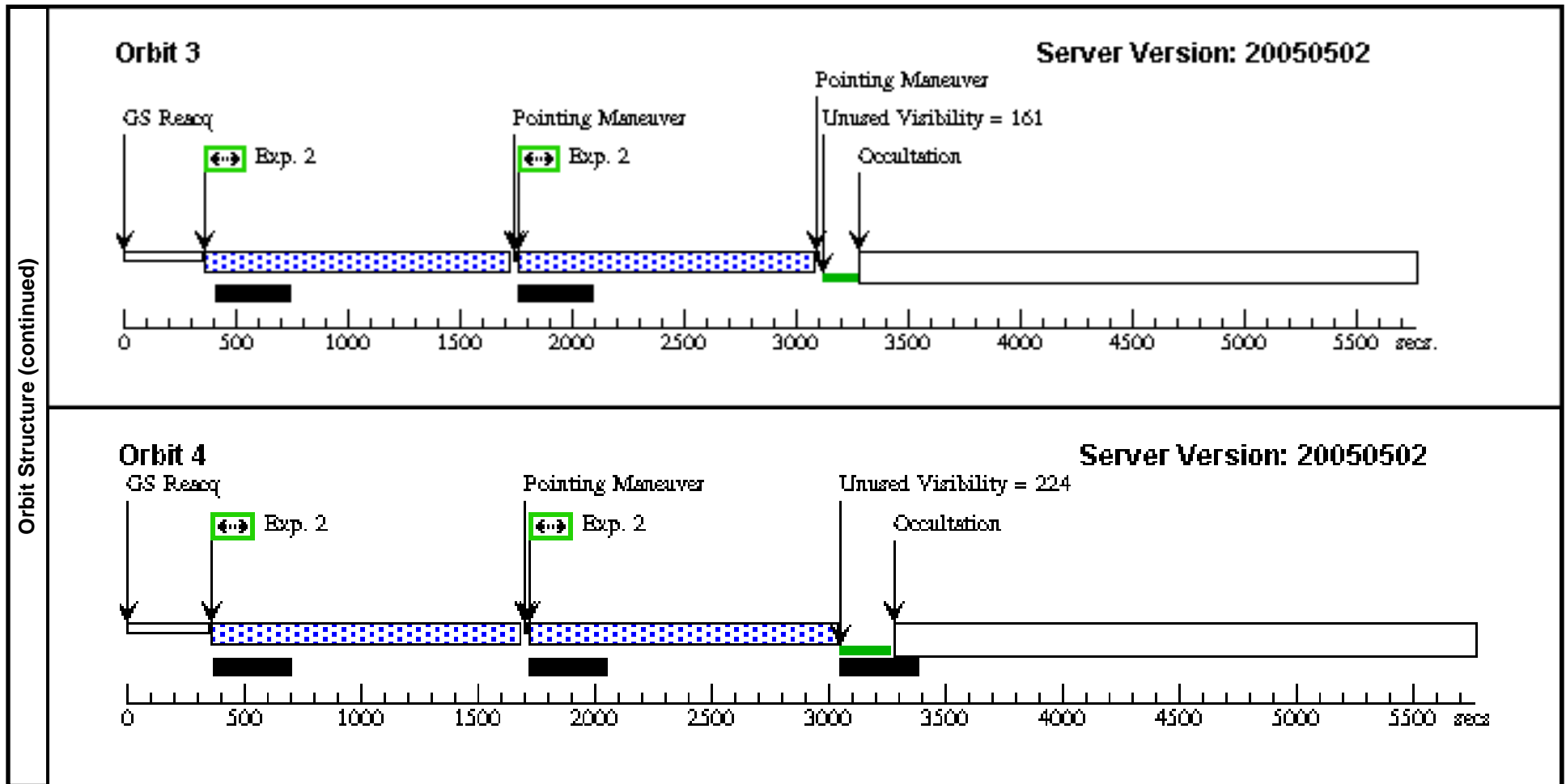
Visit	Proposal 10497, Visit 18 Mon Jun 20 18:12:44 GMT 2005 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 277.0D TO 277.0 D; AFTER 13 BY 27.8 D TO 29.8 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-3021	RA: 09 51 0.6644 (147.7527683d) Dec: +33 33 22.51 (33.55625d) Equinox: J2000 Plate Id: (?)		V=13.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	
								[=>(Pattern 2,1)]		
								[=>(Pattern 2,2)]	[2]	



Proposal 10497 - Visit 19 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

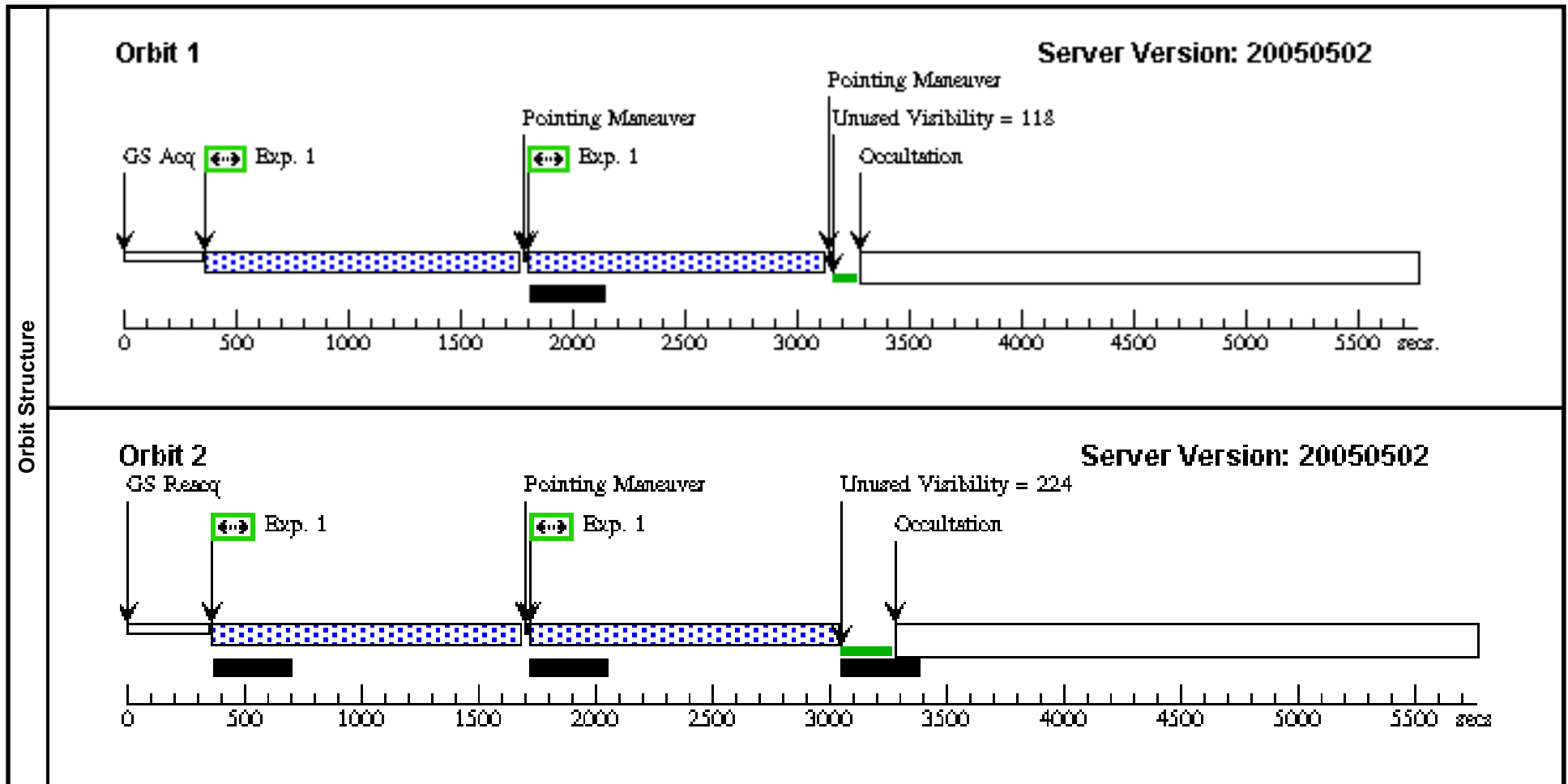
Visit	Proposal 10497, Visit 19 Mon Jun 20 18:12:47 GMT 2005 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 277.0D TO 277.0 D; AFTER 13 BY 29.8 D TO 31.8 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false		(1), (2)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-3021	RA: 09 51 0.6644 (147.7527683d) Dec: +33 33 22.51 (33.55625d) Equinox: J2000 Plate Id: (?)		V=13.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) NGC-3021	(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
									[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	
									[==>(Pattern 2,1)]	[2]
									[==>(Pattern 2,2)]	
2	(1) NGC-3021	(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	1200.0 Secs		
								[==>(Pattern 1,1)]	[3]	
								[==>(Pattern 1,2)]		
								[==>(Pattern 2,1)]	[4]	
								[==>(Pattern 2,2)]		





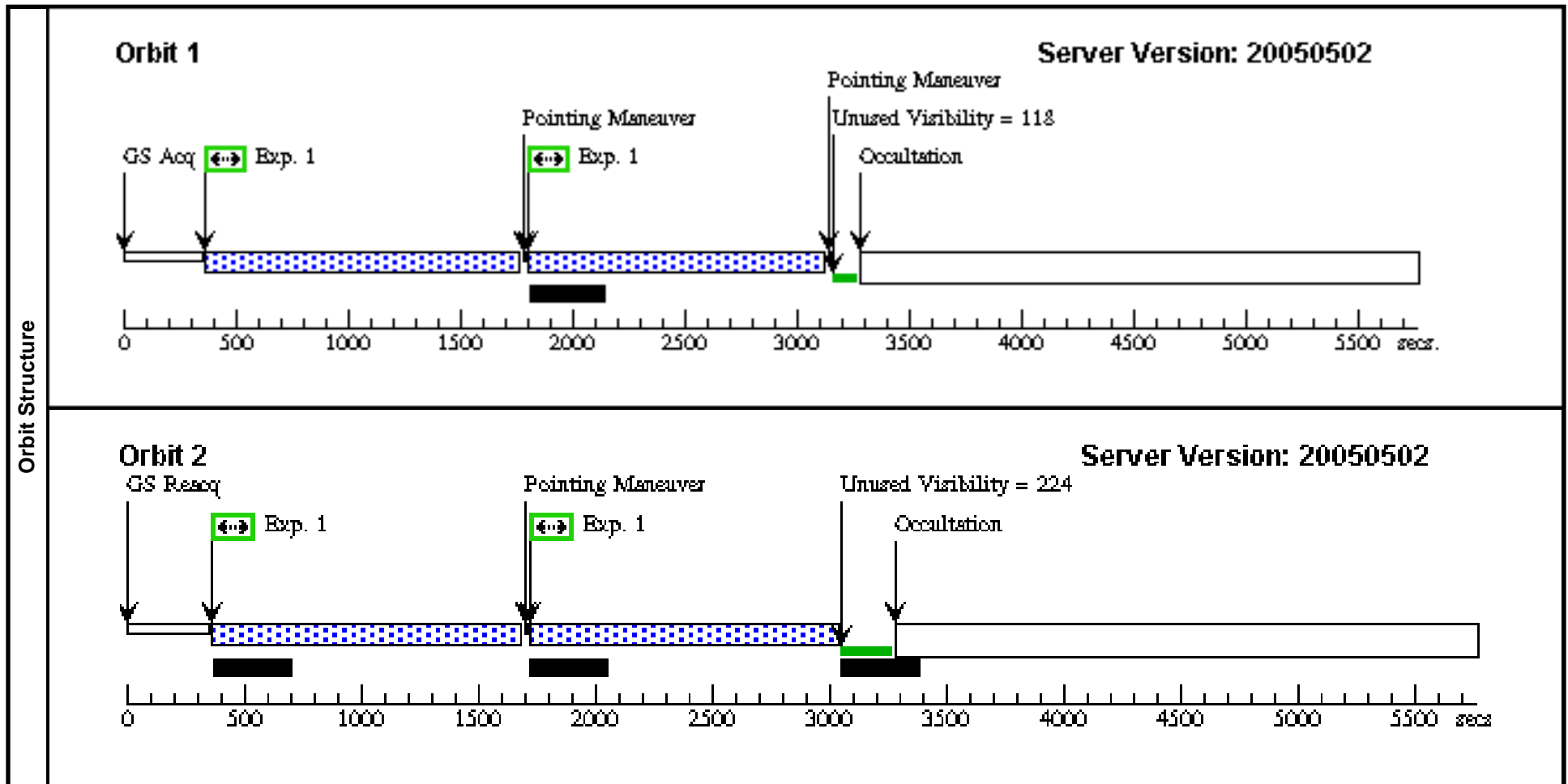
Proposal 10497 - Visit 20 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Visit	Proposal 10497, Visit 20 Mon Jun 20 18:12:50 GMT 2005 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 277.0D TO 277.0 D; AFTER 13 BY 32.1 D TO 34.1 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-3021	RA: 09 51 0.6644 (147.7527683d) Dec: +33 33 22.51 (33.55625d) Equinox: J2000 Plate Id: (?)		V=13.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	
								[=>(Pattern 2,1)]		[2]
								[=>(Pattern 2,2)]		



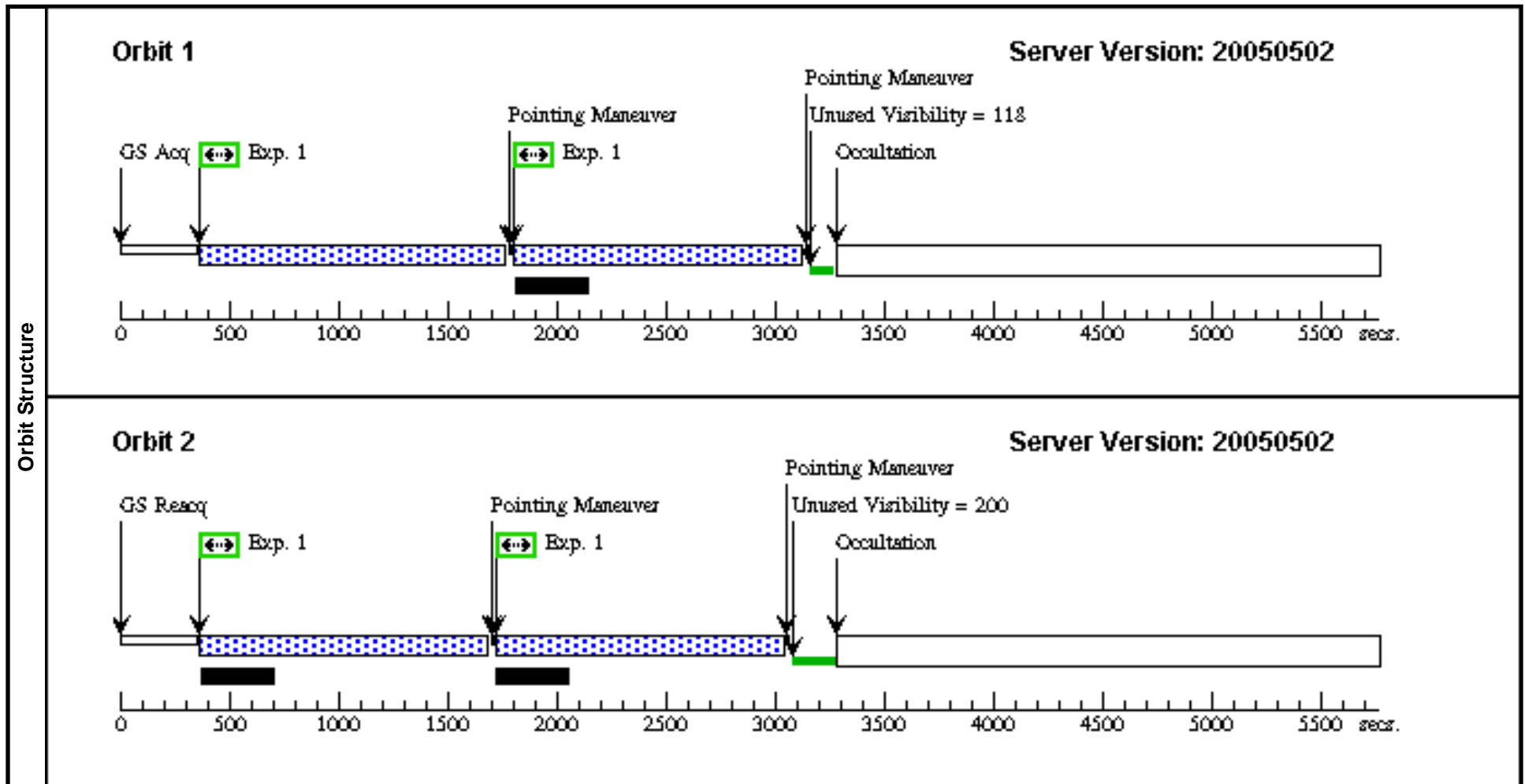
Proposal 10497 - Visit 21 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

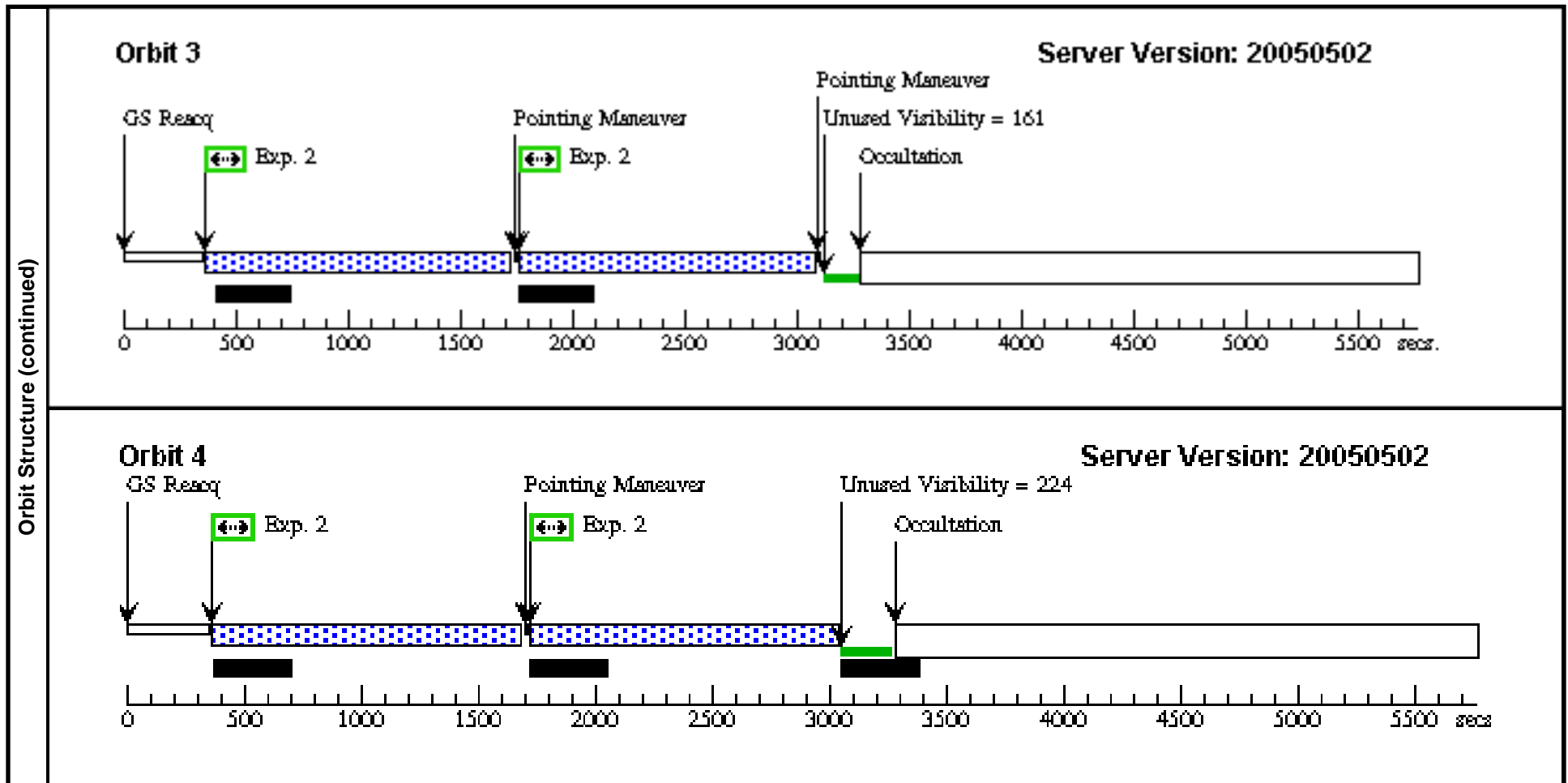
Visit									
<p>Proposal 10497, Visit 21 Mon Jun 20 18:12:51 GMT 2005</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: SCHED 30%; ORIENT 277.0D TO 277.0 D; AFTER 13 BY 35.2 D TO 37.2 D</p> <p><i>Comments: try to do in the middle of after dates</i></p> <p><i>same guide stars as visit 1</i></p> <p><i>same orient as visit 1</i></p>									
Patterns									
#	Primary Pattern			Secondary Pattern			Exposures		
(1)	Pattern Type=ACS-WFC-DITHER-LINE	Coordinate Frame=POS-TARG	Pattern Orientation=85.3	Pattern Type=LINE	Coordinate Frame=POS-TARG		(1)		
	Purpose=DITHER	Angle Between Sides=	Center Pattern=false	Purpose=DITHER	Pattern Orientation=39.6				
	Number Of Points=2	Angle Between Sides=		Number Of Points=2	Angle Between Sides=				
	Point Spacing=3.011	Center Pattern=false		Point Spacing=0.129	Center Pattern=false				
	Line Spacing=			Line Spacing=					
Fixed Targets									
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes		Miscellaneous			
(1)	NGC-3021	RA: 09 51 0.6644 (147.7527683d)		V=13.0		Coordinate Source: HST_IMAGE			
		Dec: +33 33 22.51 (33.55625d)							
		Equinox: J2000							
		Plate Id: (?)							
Exposures									
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO;		Pattern 1-1 (1)	1200.0 Secs	
					GAIN=2			[=>(Pattern 1,1)]	[1]
								[=>(Pattern 1,2)]	
								[=>(Pattern 2,1)]	[2]
								[=>(Pattern 2,2)]	



Proposal 10497 - Visit 22 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

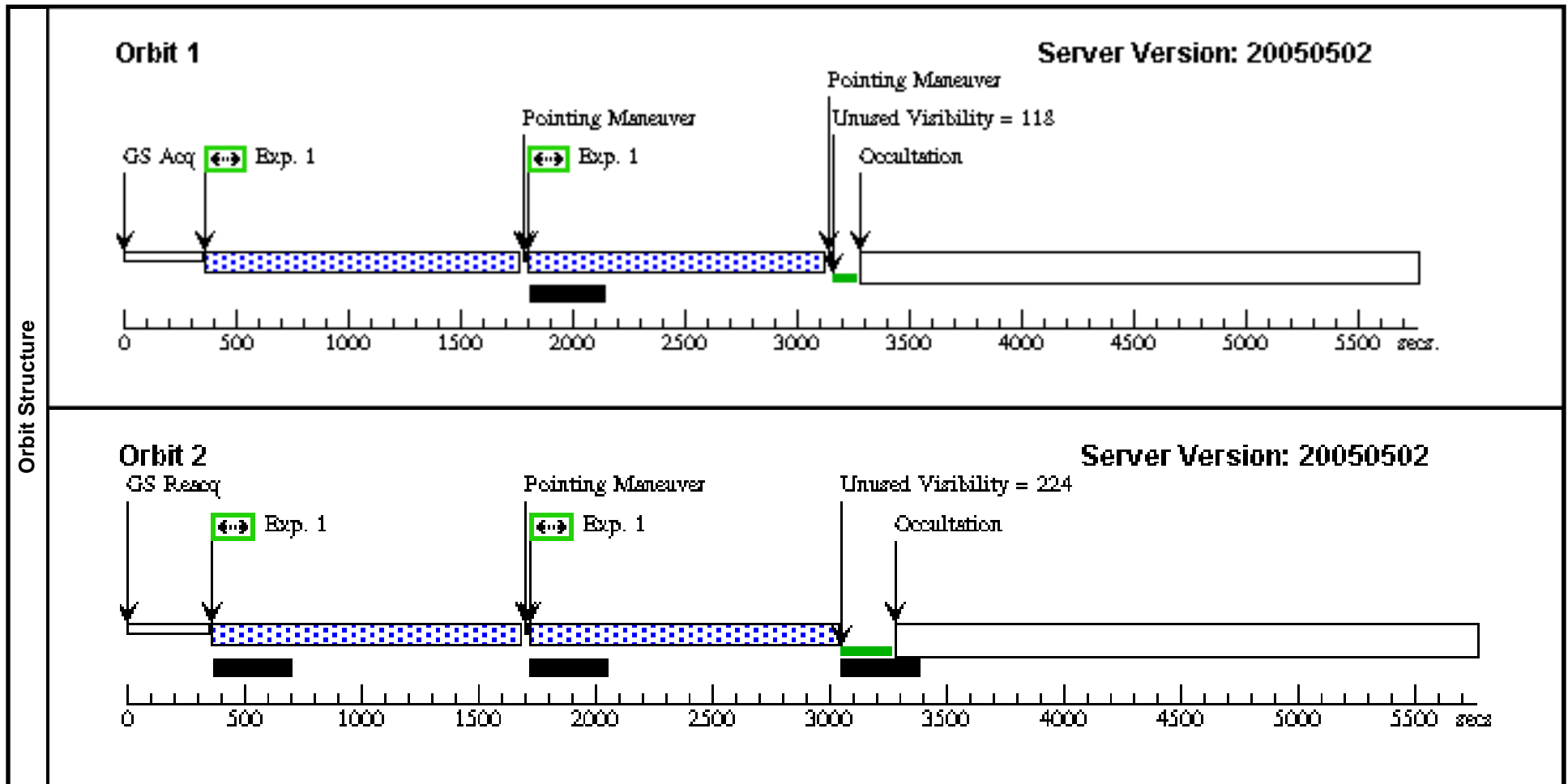
Visit	Proposal 10497, Visit 22 Mon Jun 20 18:12:53 GMT 2005 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 277.0D TO 277.0 D; AFTER 13 BY 39.4 D TO 41.4 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false		(1), (2)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-3021	RA: 09 51 0.6644 (147.7527683d) Dec: +33 33 22.51 (33.55625d) Equinox: J2000 Plate Id: (?)		V=13.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) NGC-3021	(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
									[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	
									[==>(Pattern 2,1)]	[2]
									[==>(Pattern 2,2)]	
2	(1) NGC-3021	(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	1200.0 Secs		
								[==>(Pattern 1,1)]	[3]	
								[==>(Pattern 1,2)]		
								[==>(Pattern 2,1)]	[4]	
								[==>(Pattern 2,2)]		





Proposal 10497 - Visit 23 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Visit	Proposal 10497, Visit 23 Mon Jun 20 18:12:57 GMT 2005 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 277.0D TO 277.0 D; AFTER 13 BY 44.2 D TO 46.2 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-3021	RA: 09 51 0.6644 (147.7527683d) Dec: +33 33 22.51 (33.55625d) Equinox: J2000 Plate Id: (?)		V=13.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) NGC-3021		ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2		Pattern 1-1 (1)	1200.0 Secs	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	
								[=>(Pattern 2,1)]		
								[=>(Pattern 2,2)]	[2]	



Proposal 10497 - Visit 24 - Cepheid Calibrations of the Luminosity of Two Reliable Type Ia Supernovae and a Re-determination of the Hubble Constant

Visit	Proposal 10497, Visit 24 Mon Jun 20 18:12:58 GMT 2005 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SCHED 30%; ORIENT 277.0D TO 277.0 D; AFTER 13 BY 51.5 D TO 53.5 D <i>Comments: try to do in the middle of after dates</i> <i>same guide stars as visit 1</i> <i>same orient as visit 1</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false	Pattern Type=LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.129 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=39.6 Angle Between Sides= Center Pattern=false	(1), (2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-3021	RA: 09 51 0.6644 (147.7527683d) Dec: +33 33 22.51 (33.55625d) Equinox: J2000 Plate Id: (?)		V=13.0	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F555W	CR-SPLIT=NO; GAIN=2			Pattern 1-1 (1)	1200.0 Secs	
									[==>(Pattern 1,1)]	[1]
									[==>(Pattern 1,2)]	
									[==>(Pattern 2,1)]	[2]
									[==>(Pattern 2,2)]	
2	(1) NGC-3021	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2			Pattern 2-2 (1)	1200.0 Secs		
								[==>(Pattern 1,1)]	[3]	
								[==>(Pattern 1,2)]		
								[==>(Pattern 2,1)]	[4]	
								[==>(Pattern 2,2)]		

