



12246 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Cycle: 18, Proposal Category: GO

(Availability Mode: SUPPORTED)

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Proposal 12246 (STScI Edit Number: 1, Created: Thursday, August 19, 2010 8:24:40 PM EST) - Overview

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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) SPTCLJ0000-5748	ACS/WFC	1	19-Aug-2010 21:22:48.0	yes
02	(1) SPTCLJ0000-5748	ACS/WFC	1	19-Aug-2010 21:22:53.0	yes
03	(1) SPTCLJ0000-5748	ACS/WFC	1	19-Aug-2010 21:22:56.0	yes
04	(1) SPTCLJ0000-5748	ACS/WFC	1	19-Aug-2010 21:23:00.0	yes
05	(1) SPTCLJ0000-5748	ACS/WFC	1	19-Aug-2010 21:23:03.0	yes
06	(2) SPTCLJ2341-5119	ACS/WFC	1	19-Aug-2010 21:23:06.0	yes
07	(2) SPTCLJ2341-5119	ACS/WFC	1	19-Aug-2010 21:23:10.0	yes
08	(2) SPTCLJ2341-5119	ACS/WFC	1	19-Aug-2010 21:23:13.0	yes
09	(2) SPTCLJ2341-5119	ACS/WFC	1	19-Aug-2010 21:23:16.0	yes
10	(2) SPTCLJ2341-5119	ACS/WFC	1	19-Aug-2010 21:23:19.0	yes
11	(3) SPTCLJ0533-5005	ACS/WFC	1	19-Aug-2010 21:23:22.0	yes
12	(3) SPTCLJ0533-5005	ACS/WFC	1	19-Aug-2010 21:23:25.0	yes
13	(3) SPTCLJ0533-5005	ACS/WFC	1	19-Aug-2010 21:23:28.0	yes
14	(3) SPTCLJ0533-5005	ACS/WFC	1	19-Aug-2010 21:23:31.0	yes
15	(3) SPTCLJ0533-5005	ACS/WFC	1	19-Aug-2010 21:23:35.0	yes
16	(4) SPTCLJ0559-5249	ACS/WFC	1	19-Aug-2010 21:23:38.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
17	(4) SPTCLJ0559-5249	ACS/WFC	1	19-Aug-2010 21:23:43.0	yes
18	(4) SPTCLJ0559-5249	ACS/WFC	1	19-Aug-2010 21:23:46.0	yes
19	(4) SPTCLJ0559-5249	ACS/WFC	1	19-Aug-2010 21:23:49.0	yes
20	(4) SPTCLJ0559-5249	ACS/WFC	1	19-Aug-2010 21:23:52.0	yes
21	(5) SPTCLJ2331-5051	ACS/WFC	1	19-Aug-2010 21:23:55.0	yes
22	(5) SPTCLJ2331-5051	ACS/WFC	1	19-Aug-2010 21:23:58.0	yes
23	(5) SPTCLJ2331-5051	ACS/WFC	1	19-Aug-2010 21:24:01.0	yes
24	(5) SPTCLJ2331-5051	ACS/WFC	1	19-Aug-2010 21:24:04.0	yes
25	(5) SPTCLJ2331-5051	ACS/WFC	1	19-Aug-2010 21:24:07.0	yes
26	(6) SPTCLJ2337-5942	ACS/WFC	1	19-Aug-2010 21:24:10.0	yes
27	(6) SPTCLJ2337-5942	ACS/WFC	1	19-Aug-2010 21:24:14.0	yes
28	(6) SPTCLJ2337-5942	ACS/WFC	1	19-Aug-2010 21:24:17.0	yes
29	(6) SPTCLJ2337-5942	ACS/WFC	1	19-Aug-2010 21:24:19.0	yes
30	(6) SPTCLJ2337-5942	ACS/WFC	1	19-Aug-2010 21:24:22.0	yes
31	(7) SPTCLJ2359-5009	ACS/WFC	1	19-Aug-2010 21:24:25.0	yes
32	(7) SPTCLJ2359-5009	ACS/WFC	1	19-Aug-2010 21:24:28.0	yes
33	(7) SPTCLJ2359-5009	ACS/WFC	1	19-Aug-2010 21:24:31.0	yes
34	(7) SPTCLJ2359-5009	ACS/WFC	1	19-Aug-2010 21:24:34.0	yes
35	(7) SPTCLJ2359-5009	ACS/WFC	1	19-Aug-2010 21:24:36.0	yes

35 Total Orbits Used

ABSTRACT

We request observations of a uniformly selected sample of high mass galaxy clusters at redshift $0.58 < z < 0.88$, in order to obtain weak lensing mass measurements of these systems. The clusters are drawn from the sample detected by the South Pole Telescope using the spectral distortion that high mass clusters impose on the Cosmic Microwave Background, the Sunyaev-Zeldovich effect. These clusters comprise a nearly mass-limited sample, which is an unprecedented resource for constraining cosmological parameters and for studying galaxy populations in these extreme environments.

The weak lensing mass estimates will be used in conjunction with existing data sets (X-ray, infrared, and optical) to establish an accurate overall mass normalization. Uncertainty in the overall mass scale has not been previously determined for this combination of masses and redshifts, and is the dominant uncertainty in extracting constraints on cosmological parameters from cluster abundance studies. We are undertaking a coordinated program of weak lensing measurements, using ground-based telescopes for clusters at redshift $z < 0.55$, and HST, as requested here, for higher redshifts.

OBSERVING DESCRIPTION

For each cluster, we have specified a simple 2x2 mosaic pattern for the ACS/WFC through the F606W filter, with (10%, 5%) overlap of the (rows, columns). Each of the tiles employs the default, 4-point box dither pattern. We require these 4 visits to be within 4 orbits of one another and at the same orientation, but the order of the visits, as well as the orientation of the first visit, are left unconstrained. We specify this constraint because our weak lensing shape measurements require maximum PSF stability. LOW SKY is required for all exposures because we need the greatest density of lensed background galaxies possible.

Finally, the 5th visit for each cluster is centered at the cluster center, using the ACS/WFC F814W filter. This visit can be at any orientation w.r.t. the other 4 visits in the F606W mosaic, and so its orientation is left unconstrained. We again require LOW SKY. We use a linear 4 point dither pattern that covers the chip gap and ensures coverage by at least 3 exposures at the chip-gap location, which will be at the cluster center.

The above strategy is repeated for all 7 clusters.

Visit	Proposal 12246, Visit 01, implementation										Fri Aug 20 01:24:41 GMT 2010			
	Diagnostic Status: No Diagnostics													
	Scientific Instruments: ACS/WFC													
	Special Requirements: GROUP 01,02,03,04 WITHIN 4 Orbits													
Patterns	#	Primary Pattern					Secondary Pattern					Exposures		
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.265 Line Spacing=0.187					Coordinate Frame=POS-TARG Pattern Orientation=20.67 Angle Between Sides=69.05 Center Pattern=false					(1)		
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(1)	SPTCLJ0000-5748		RA: 00 01 0.0000 (.2500000d) Dec: -57 48 25.20 (-57.80700d) Equinox: J2000		Redshift: 0.74		V=27		Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit		
	1		(1) SPTCLJ0000-5748	ACS/WFC, ACCUM, WFCENTER		F606W		POS TARG -96.139 23740221945,-106.1 6329118877118; LOW-SKY	Pattern 1, Exps 1-1 (1)	480 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]		
Orbit Structure	Orbit 1												Server Version: 20100505	
	The diagram illustrates the timeline of Orbit 1, spanning from 0 to 5500 seconds. Key events include: GS Acq at ~100s; four exposures (Exp. 1) at ~400s, ~1200s, ~1800s, and ~2400s, each preceded by a Pointing Maneuver; a Low Sky Limit at ~3000s; an Occultation starting at ~3500s; and an Unused Visibility of 470 seconds between the Low Sky Limit and Occultation. The timeline is divided into segments with different patterns: blue checkered for exposures, black for maneuvers, and white for other periods.													

Proposal 12246 - Visit 01 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 02, implementation Fri Aug 20 01:24:42 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 01				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(1)	SPTCLJ0000-5748	RA: 00 01 0.0000 (.2500000d) Dec: -57 48 25.20 (-57.80700d) Equinox: J2000	Redshift: 0.74	V=27
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1		(1) SPTCLJ0000-5748	ACS/WFC, ACCUM, WFCENTER	F606W
					Opt. Params.
					POS TARG 97.8737 8850981789,-92.596 1) 57881122874; LOW-SKY
					Special Reqs.
					Pattern 1, Exps 1-1 (1) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]
					Groups
					Exp. Time/[Actual Dur.] 480 Secs [1]
Orbit Structure	Orbit 1 Server Version: 20100505				
	The diagram illustrates the orbit structure for Orbit 1, showing a timeline from 0 to 5500 seconds. Key events include a Guided Star Acquisition (GS Acq) at the start, followed by four exposures (Exp. 1) marked with green boxes. Pointing maneuvers are indicated by vertical arrows at approximately 1200, 1800, and 2400 seconds. A Low Sky Limit is shown at approximately 3000 seconds, and an occultation occurs at approximately 3500 seconds. The total unused visibility is 470 seconds.				

Proposal 12246 - Visit 02 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 03, implementation Fri Aug 20 01:24:42 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 01				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(1)	SPTCLJ0000-5748	RA: 00 01 0.0000 (.2500000d) Dec: -57 48 25.20 (-57.80700d) Equinox: J2000	Redshift: 0.74	V=27
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(1) SPTCLJ0000-5748	(1) SPTCLJ0000-5748	ACS/WFC, ACCUM, WFCENTER	F606W
					Opt. Params.
					POS TARG -97.873 78850981786,92.596 1) 57881122874; LOW-SKY
					Special Reqs.
					Pattern 1, Exps 1-1 (1) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]
					Groups
					Exp. Time/[Actual Dur.] 480 Secs [1]
Orbit Structure	Orbit 1 Server Version: 20100505				
	The diagram illustrates the orbit structure over a 5500-second period. Key events include: GS Acq: Ground Station Acquisition at the start. Exp. 1: Four exposures of the target, each lasting 480 seconds, separated by pointing maneuvers. Pointing Maneuver: Three maneuvers occurring between the exposures. Unused Visibility = 470: A period of 470 seconds where the target is visible but not observed. Low Sky Limit: A period where the target is below the low sky limit. Occultation: A period where the target is occulted.				

Proposal 12246 - Visit 03 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 04, implementation Fri Aug 20 01:24:43 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 01				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(1)	SPTCLJ0000-5748	RA: 00 01 0.0000 (.2500000d) Dec: -57 48 25.20 (-57.80700d) Equinox: J2000	Redshift: 0.74	V=27
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1		(1) SPTCLJ0000-5748	ACS/WFC, ACCUM, WFCENTER	F606W
					Opt. Params.
					POS TARG 96.1392 3740221948,106.163 1) 29118877118; LOW-SKY
					Special Reqs.
					Pattern 1, Exps 1-1 (1) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]
					Groups
					Exp. Time/[Actual Dur.] 480 Secs Orbit [1]
Orbit Structure	Orbit 1 Server Version: 20100505				
	The diagram illustrates the timeline of Orbit 1. It starts with a GS Acq phase, followed by four exposures (Exp. 1) separated by pointing maneuvers. The timeline ends with an occultation phase. Key parameters include an unused visibility of 470 seconds and a low sky limit.				

Proposal 12246 - Visit 04 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 05, implementation Fri Aug 20 01:24:43 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true	(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(1)	SPTCLJ0000-5748	RA: 00 01 0.0000 (.2500000d) Dec: -57 48 25.20 (-57.80700d) Equinox: J2000	Redshift: 0.74	V=27
Exposures					
	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1		(1) SPTCLJ0000-5748	ACS/WFC, ACCUM, WFCENTER	F814W
Exposures					Opt. Params.
					LOW-SKY
Exposures					Special Reqs.
Exposures					Groups
					Pattern 2, Exps 1-1 (2)
Exposures					Exp. Time/[Actual Dur.]
					479 Secs
Exposures					[==>(Pattern 1)]
					[==>(Pattern 2)]
Exposures					[==>(Pattern 3)]
					[==>(Pattern 4)]
Exposures					Orbit
					[1]
Orbit Structure	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 05 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 06, implementation Fri Aug 20 01:24:43 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: GROUP 06,07,08,09 WITHIN 4 Orbits				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(2)	SPTCLJ2341-5119	RA: 23 41 11.7600 (355.2990000d) Dec: -51 19 58.99 (-51.33305d) Equinox: J2000	Redshift: 0.998	V=27
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(2) SPTCLJ2341-5119	(2) SPTCLJ2341-5119	ACS/WFC, ACCUM, WFCENTER	F606W
					Opt. Params.
					POS TARG -96.139 23740221945,-106.1 6329118877118; LOW-SKY
					Special Reqs.
					Pattern 1, Exps 1-1 (1) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]
					Groups
					Exp. Time/[Actual Dur.] 480 Secs [1]
Orbit Structure	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 06 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 07, implementation Fri Aug 20 01:24:44 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 06				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(2)	SPTCLJ2341-5119	RA: 23 41 11.7600 (355.2990000d) Dec: -51 19 58.99 (-51.33305d) Equinox: J2000	Redshift: 0.998	V=27
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(2) SPTCLJ2341-5119	ACS/WFC, ACCUM, WFCENTER	F606W	POS TARG 97.8737 8850981789,-92.596 57881122874; LOW-SKY
					Groups
					Pattern 1, Exps 1-1 (1)
					Exp. Time/[Actual Dur.]
					480 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]
Orbit Structure					Orbit
					[1]
Orbit Structure	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 07 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 08, implementation Fri Aug 20 01:24:44 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 06				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(2)	SPTCLJ2341-5119	RA: 23 41 11.7600 (355.2990000d) Dec: -51 19 58.99 (-51.33305d) Equinox: J2000	Redshift: 0.998	V=27
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(2) SPTCLJ2341-5119	ACS/WFC, ACCUM, WFCENTER	F606W	POS TARG -97.873 78850981786,92.596 1) 57881122874; LOW-SKY
					Groups
					Pattern 1, Exps 1-1 (1) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]
					Exp. Time/[Actual Dur.]
					480 Secs
					Orbit
					[1]
Orbit Structure	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 08 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 09, implementation Fri Aug 20 01:24:44 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 06				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(2)	SPTCLJ2341-5119	RA: 23 41 11.7600 (355.2990000d) Dec: -51 19 58.99 (-51.33305d) Equinox: J2000	Redshift: 0.998	V=27
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(2) SPTCLJ2341-5119	ACS/WFC, ACCUM, WFCENTER	F606W	POS TARG 96.1392 3740221948,106.163 1) 29118877118; LOW-SKY
					Groups
					Pattern 1, Exps 1-1 (1)
					Exp. Time/[Actual Dur.]
					480 Secs
					[==>(Pattern 1)]
					[==>(Pattern 2)]
					[==>(Pattern 3)]
					[==>(Pattern 4)]
Orbit Structure					Orbit
					[1]
Orbit Structure	Orbit 1 Server Version: 20100505				
	The diagram illustrates the orbit structure for Orbit 1, showing a timeline from 0 to 5500 seconds. Key events and phases are marked: GS Acq: Ground Station Acquisition at the start of the timeline. Exp. 1: Four exposures, each lasting 480 seconds, marked with green boxes and labeled "Exp. 1". Pointing Maneuver: Three maneuvers, each lasting approximately 100 seconds, marked with black boxes and labeled "Pointing Maneuver". Unused Visibility = 404: A period of 404 seconds where the target is not visible, marked with a black box. Low Sky Limit: A period where the target is below the low sky limit, marked with a black box. Occultation: A period where the target is occulted, marked with a black box.				

Proposal 12246 - Visit 09 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 10, implementation Fri Aug 20 01:24:44 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true	(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(2)	SPTCLJ2341-5119	RA: 23 41 11.7600 (355.2990000d) Dec: -51 19 58.99 (-51.33305d) Equinox: J2000	Redshift: 0.998	V=27
Exposures					Miscellaneous
	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(2) SPTCLJ2341-5119	ACS/WFC, ACCUM, WFCENTER	F814W	LOW-SKY
Exposures					Special Reqs.
					Pattern 2, Exps 1-1 (2)
Exposures					Exp. Time/[Actual Dur.]
					480 Secs
Exposures					[==>(Pattern 1)]
					[==>(Pattern 2)]
Exposures					[==>(Pattern 3)]
					[==>(Pattern 4)]
Exposures					[1]
Orbit Structure	Orbit 1 Server Version: 20100505				
	The diagram illustrates the orbit structure over a 5500-second period. Key events include: GS Acq: Ground Station Acquisition at the start. Exp. 1: Four exposures of the target, each lasting 480 seconds, separated by pointing maneuvers. Pointing Maneuver: Three maneuvers occurring between the exposures. Occultation: A period where the target is obscured by the Earth's limb, occurring after the fourth exposure. Unused Visibility = 392: A period of 392 seconds where the target is visible but not observed. Low Sky Limit: A threshold for sky brightness, indicated by a red line.				

Proposal 12246 - Visit 10 - Weak Lensing Mass Calibration of SZ-Selected Clusters

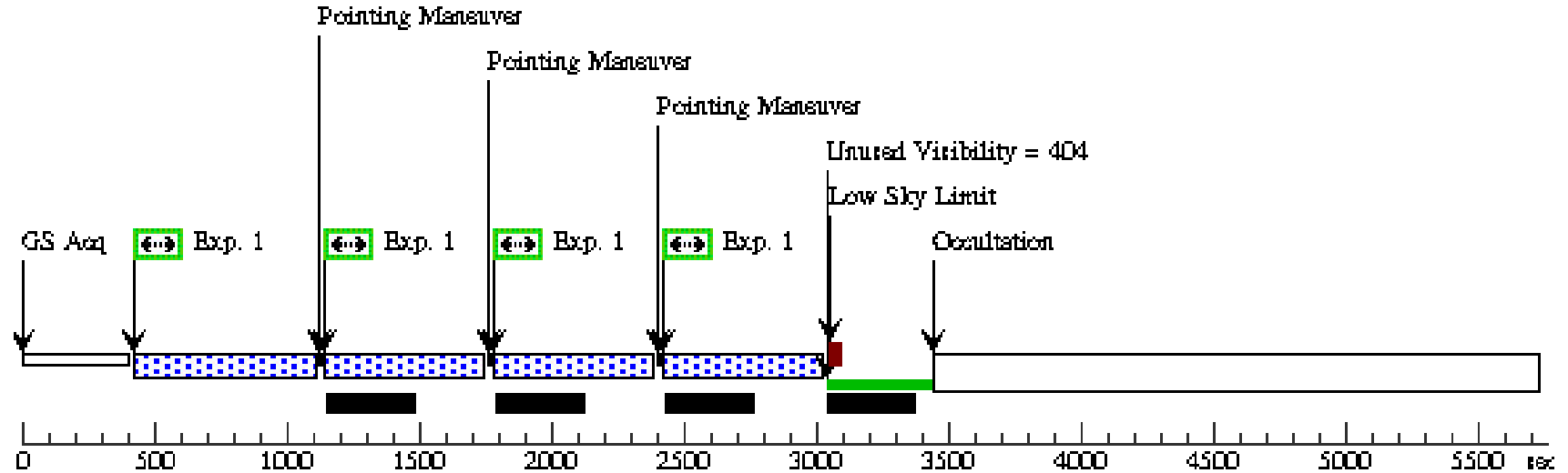
Visit	Proposal 12246, Visit 11, implementation										Fri Aug 20 01:24:45 GMT 2010			
	Diagnostic Status: No Diagnostics													
	Scientific Instruments: ACS/WFC													
	Special Requirements: GROUP 11,12,13,14 WITHIN 4 Orbits													
Patterns	#	Primary Pattern					Secondary Pattern				Exposures			
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187									(1)			
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous					
	(3)	SPTCLJ0533-5005	RA: 05 33 35.5200 (83.3980000d) Dec: -50 05 31.20 (-50.09200d) Equinox: J2000		Redshift: 0.881		V=27		Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit			
	1		(3) SPTCLJ0533-5005	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG -96.139 23740221945,-106.1 6329118877118; LOW-SKY	Pattern 1, Exps 1-1 (1)	480 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]			
Orbit Structure	Orbit 1												Server Version: 20100505	

Proposal 12246 - Visit 11 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 12, implementation Fri Aug 20 01:24:45 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 11				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(3)	SPTCLJ0533-5005	RA: 05 33 35.5200 (83.3980000d) Dec: -50 05 31.20 (-50.09200d) Equinox: J2000	Redshift: 0.881	V=27
Exposures					Miscellaneous
	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(3) SPTCLJ0533-5005	ACS/WFC, ACCUM, WFCENTER	F606W	
Exposures					Opt. Params.
					Special Reqs.
Exposures					Groups
					Exp. Time/[Actual Dur.]
Exposures					Orbit
					[1]
Orbit Structure					

Orbit 1

Server Version: 20100505



Proposal 12246 - Visit 12 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 13, implementation Fri Aug 20 01:24:45 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 11				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(3)	SPTCLJ0533-5005	RA: 05 33 35.5200 (83.3980000d) Dec: -50 05 31.20 (-50.09200d) Equinox: J2000	Redshift: 0.881	V=27
Exposures					
	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(3) SPTCLJ0533-5005	ACS/WFC, ACCUM, WFCENTER	F606W	POS TARG -97.873 78850981786,92.596 1) 57881122874; LOW-SKY
					Pattern 1, Exps 1-1 (480 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]
Orbit Structure					
	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 13 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 14, implementation Fri Aug 20 01:24:45 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 11				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(3)	SPTCLJ0533-5005	RA: 05 33 35.5200 (83.3980000d) Dec: -50 05 31.20 (-50.09200d) Equinox: J2000	Redshift: 0.881	V=27
Exposures					Miscellaneous
	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1		(3) SPTCLJ0533-5005	ACS/WFC, ACCUM, WFCENTER	F606W
Exposures					Opt. Params.
	POS TARG 96.1392 3740221948,106.163 1) 29118877118; LOW-SKY				
Exposures					Special Reqs.
	Pattern 1, Exps 1-1 (1) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]				
Exposures					Groups
	480 Secs [1]				
Exposures					Exp. Time/[Actual Dur.]
Exposures					Orbit
Orbit Structure	Orbit 1 Server Version: 20100505				
	The diagram illustrates the orbit structure for Orbit 1, spanning from 0 to 5500 seconds. Key events include: GS Acq: Ground Station Acquisition at the start. Exp. 1: Four exposures of the target, each lasting 480 seconds, occurring at approximately 400, 1100, 1800, and 2500 seconds. Pointing Maneuver: Three maneuvers occurring between exposures at approximately 1100, 1800, and 2500 seconds. Unused Visibility = 404: A period of unused visibility starting at approximately 3000 seconds. Low Sky Limit: A period of low sky limit starting at approximately 3000 seconds. Occultation: A period of occultation starting at approximately 3000 seconds.				

Proposal 12246 - Visit 14 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 15, implementation Fri Aug 20 01:24:45 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true	(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(3)	SPTCLJ0533-5005	RA: 05 33 35.5200 (83.3980000d) Dec: -50 05 31.20 (-50.09200d) Equinox: J2000	Redshift: 0.881	V=27
Exposures					Miscellaneous
	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(3) SPTCLJ0533-5005	ACS/WFC, ACCUM, WFCENTER	F814W	LOW-SKY
Exposures					Special Reqs.
					Pattern 2, Exps 1-1 (2)
Exposures					Exp. Time/[Actual Dur.]
					480 Secs
Exposures					[==>(Pattern 1)]
					[==>(Pattern 2)]
Exposures					[==>(Pattern 3)]
					[==>(Pattern 4)]
Exposures					[1]
Orbit Structure	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 15 - Weak Lensing Mass Calibration of SZ-Selected Clusters

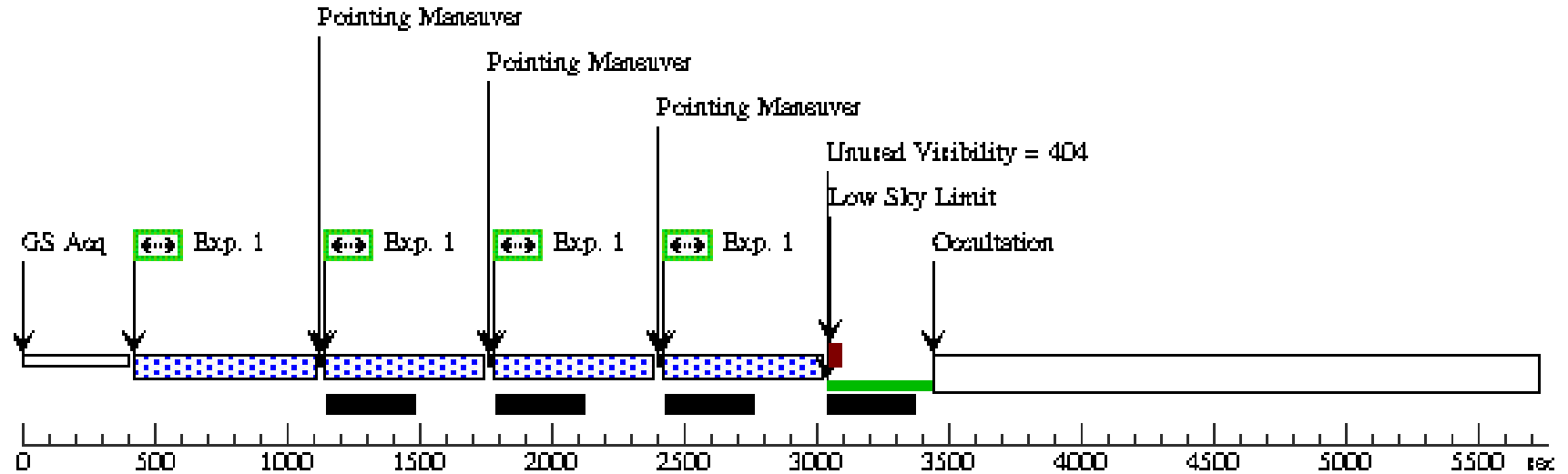
Visit	Proposal 12246, Visit 16, implementation										Fri Aug 20 01:24:46 GMT 2010					
	Diagnostic Status: No Diagnostics															
	Scientific Instruments: ACS/WFC															
	Special Requirements: GROUP 16,17,18,19 WITHIN 4 Orbits															
Patterns	#	Primary Pattern					Secondary Pattern					Exposures				
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187										(1)				
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous						
	(4)	SPTCLJ0559-5249		RA: 05 59 42.0000 (89.9250000d) Dec: -52 49 33.60 (-52.82600d) Equinox: J2000		Redshift: 0.611		V=27		Reference Frame: ICRS						
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.		Opt. Params.		Special Reqs.		Groups	Exp. Time/[Actual Dur.]	Orbit		
	1		(4) SPTCLJ0559-5249	ACS/WFC, ACCUM, WFCENTER		F606W				POS TARG -96.139 23740221945,-106.1 6329118877118; LOW-SKY		Pattern 1, Exps 1-1 (1)	480 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]		
Orbit Structure	Orbit 1														Server Version: 20100505	

Proposal 12246 - Visit 16 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 17, implementation Fri Aug 20 01:24:46 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 16				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(4)	SPTCLJ0559-5249	RA: 05 59 42.0000 (89.9250000d) Dec: -52 49 33.60 (-52.82600d) Equinox: J2000	Redshift: 0.611	V=27
Exposures					Miscellaneous
	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(4) SPTCLJ0559-5249	ACS/WFC, ACCUM, WFCENTER	F606W	
Exposures					Opt. Params.
					Special Reqs.
Exposures					Groups
					Exp. Time/[Actual Dur.]
Exposures					Orbit
Orbit Structure					

Orbit 1

Server Version: 20100505



Proposal 12246 - Visit 17 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 18, implementation Fri Aug 20 01:24:46 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 16				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(4)	SPTCLJ0559-5249	RA: 05 59 42.0000 (89.9250000d) Dec: -52 49 33.60 (-52.82600d) Equinox: J2000	Redshift: 0.611	V=27
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(4) SPTCLJ0559-5249	ACS/WFC, ACCUM, WFCENTER	F606W	POS TARG -97.873 78850981786,92.596 1) 57881122874; LOW-SKY
					Groups
					Pattern 1, Exps 1-1 (1)
					Exp. Time/[Actual Dur.]
					480 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]
					Orbit
					[1]
Orbit Structure	Orbit 1 Server Version: 20100505				
	The diagram illustrates the orbit structure for Orbit 1, spanning from 0 to 5500 seconds. Key events and phases are marked along the timeline: GS Acq: Ground Station Acquisition at the start of the orbit. Exp. 1: Four exposures of the target, each lasting 480 seconds, occurring at approximately 400, 1100, 1800, and 2500 seconds. Pointing Maneuver: Three maneuvers are indicated by vertical arrows at approximately 1100, 1800, and 2500 seconds. Unused Visibility = 404: A period of unused visibility starting at approximately 3000 seconds. Low Sky Limit: A period of low sky limit starting at approximately 3000 seconds. Occultation: A period of occultation starting at approximately 3000 seconds. The timeline is marked with a blue checkered pattern for the main observation period and a green bar for the Low Sky Limit.				

Proposal 12246 - Visit 18 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 19, implementation Fri Aug 20 01:24:47 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 16				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(4)	SPTCLJ0559-5249	RA: 05 59 42.0000 (89.9250000d) Dec: -52 49 33.60 (-52.82600d) Equinox: J2000	Redshift: 0.611	V=27
Exposures					
	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(4) SPTCLJ0559-5249	ACS/WFC, ACCUM, WFCENTER	F606W	
					Opt. Params.
					Special Reqs.
					Groups
					Exp. Time/[Actual Dur.]
					Orbit
					[1]
Orbit Structure					
	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 19 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 20, implementation Fri Aug 20 01:24:47 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true	(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(4)	SPTCLJ0559-5249	RA: 05 59 42.0000 (89.9250000d) Dec: -52 49 33.60 (-52.82600d) Equinox: J2000	Redshift: 0.611	V=27
Exposures					Miscellaneous
	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(4) SPTCLJ0559-5249	ACS/WFC, ACCUM, WFCENTER	F814W	LOW-SKY
Exposures					Special Reqs.
					Pattern 2, Exps 1-1 (2)
Exposures					Exp. Time/[Actual Dur.]
					480 Secs
Exposures					[==>(Pattern 1)]
					[==>(Pattern 2)]
Exposures					[==>(Pattern 3)]
					[==>(Pattern 4)]
Exposures					[1]
Orbit Structure	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 20 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 21, implementation Fri Aug 20 01:24:48 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: GROUP 21,22,23,24 WITHIN 4 Orbits				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	SPTCLJ2331-5051	RA: 23 31 49.9200 (352.9580000d) Dec: -50 51 50.40 (-50.86400d) Equinox: J2000	Redshift: 0.571	V=27
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(5) SPTCLJ2331-5051	ACS/WFC, ACCUM, WFCENTER	F606W	POS TARG -96.139 23740221945,-106.1 6329118877118; LOW-SKY
					Groups
					Pattern 1, Exps 1-1 (1)
					Exp. Time/[Actual Dur.]
					480 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]
					Orbit
					[1]
Orbit Structure	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 21 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 22, implementation Fri Aug 20 01:24:48 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 21				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	SPTCLJ2331-5051	RA: 23 31 49.9200 (352.9580000d) Dec: -50 51 50.40 (-50.86400d) Equinox: J2000	Redshift: 0.571	V=27
Exposures					Miscellaneous
	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1		(5) SPTCLJ2331-5051	ACS/WFC, ACCUM, WFCENTER	F606W
Exposures					Opt. Params.
	POS TARG 97.8737 8850981789,-92.596 1) 57881122874; LOW-SKY				
Exposures					Special Reqs.
	Pattern 1, Exps 1-1 (1) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]				
Exposures					Groups
	Exp. Time/[Actual Dur.] 480 Secs [1]				
Orbit Structure					Orbit
					[1]
Orbit Structure					Server Version: 20100505
	Orbit 1				

Proposal 12246 - Visit 22 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 23, implementation Fri Aug 20 01:24:48 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 21				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	SPTCLJ2331-5051	RA: 23 31 49.9200 (352.9580000d) Dec: -50 51 50.40 (-50.86400d) Equinox: J2000	Redshift: 0.571	V=27
Exposures					Miscellaneous
	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1		(5) SPTCLJ2331-5051	ACS/WFC, ACCUM, WFCENTER	F606W
Exposures					Opt. Params.
	POS TARG -97.873 78850981786,92.596 1) 57881122874; LOW-SKY				
Exposures					Special Reqs.
	Pattern 1, Exps 1-1 (1) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]				
Exposures					Groups
	480 Secs [1]				
Exposures					Exp. Time/[Actual Dur.]
Exposures					Orbit
Orbit Structure	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 23 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 24, implementation Fri Aug 20 01:24:49 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 21				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	SPTCLJ2331-5051	RA: 23 31 49.9200 (352.9580000d) Dec: -50 51 50.40 (-50.86400d) Equinox: J2000	Redshift: 0.571	V=27
Exposures					Miscellaneous
	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1		(5) SPTCLJ2331-5051	ACS/WFC, ACCUM, WFCENTER	F606W
Exposures					Opt. Params.
	POS TARG 96.1392 3740221948,106.163 1) 29118877118; LOW-SKY				
Exposures					Special Reqs.
	Pattern 1, Exps 1-1 (1) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]				
Exposures					Groups
	480 Secs [1]				
Exposures					Exp. Time/[Actual Dur.]
Exposures					Orbit
Orbit Structure	Orbit 1 Server Version: 20100505				
	The diagram illustrates the orbit structure for Orbit 1, spanning from 0 to 5500 seconds. Key events and phases are marked along the timeline: GS Acq: Ground Station Acquisition at the start of the orbit. Exp. 1: Four exposures of the target, each lasting 480 seconds, occurring at approximately 400, 1100, 1800, and 2500 seconds. Pointing Maneuver: Three maneuvers are indicated, occurring between the exposures. Unused Visibility = 404: A period of unused visibility occurring after the fourth exposure. Low Sky Limit: A period of low sky limit occurring after the unused visibility. Occultation: A period of occultation occurring at the end of the orbit.				

Proposal 12246 - Visit 24 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 25, implementation Fri Aug 20 01:24:49 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true	(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	SPTCLJ2331-5051	RA: 23 31 49.9200 (352.9580000d) Dec: -50 51 50.40 (-50.86400d) Equinox: J2000	Redshift: 0.571	V=27
Exposures					Miscellaneous
	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1		(5) SPTCLJ2331-5051	ACS/WFC, ACCUM, WFCENTER	F814W
Exposures					Opt. Params.
					LOW-SKY
Exposures					Special Reqs.
Exposures					Groups
					Pattern 2, Exps 1-1 (2)
Exposures					Exp. Time/[Actual Dur.]
					480 Secs
Exposures					[==>(Pattern 1)]
					[==>(Pattern 2)]
Exposures					[==>(Pattern 3)]
					[==>(Pattern 4)]
Exposures					Orbit
					[1]
Orbit Structure	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 25 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 26, implementation										Fri Aug 20 01:24:49 GMT 2010																			
	Diagnostic Status: No Diagnostics																													
	Scientific Instruments: ACS/WFC																													
	Special Requirements: GROUP 26,27,28,29 WITHIN 4 Orbits																													
Patterns	#	Primary Pattern										Secondary Pattern										Exposures								
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.265 Line Spacing=0.187										Coordinate Frame=POS-TARG Pattern Orientation=20.67 Angle Between Sides=69.05 Center Pattern=false										(1)								
Fixed Targets	#	Name		Target Coordinates				Targ. Coord. Corrections				Fluxes				Miscellaneous														
	(6)	SPTCLJ2337-5942		RA: 23 37 24.9600 (354.3540000d) Dec: -59 42 18.00 (-59.70500d) Equinox: J2000				Redshift: 0.781				V=27				Reference Frame: ICRS														
Exposures	#	Label	Target	Config,Mode,Aperture				Spectral Els.		Opt. Params.		Special Reqs.		Groups		Exp. Time/[Actual Dur.]		Orbit												
	1		(6) SPTCLJ2337-5942	ACS/WFC, ACCUM, WFCENTER				F606W				POS TARG -96.139 23740221945,-106.1 6329118877118; LOW-SKY		Pattern 1, Exps 1-1 (1)		480 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]												
Orbit Structure	Orbit 1																				Server Version: 20100505									

Proposal 12246 - Visit 26 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 27, implementation Fri Aug 20 01:24:49 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 26				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	SPTCLJ2337-5942	RA: 23 37 24.9600 (354.3540000d) Dec: -59 42 18.00 (-59.70500d) Equinox: J2000	Redshift: 0.781	V=27
Exposures					
	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1		(6) SPTCLJ2337-5942	ACS/WFC, ACCUM, WFCENTER	F606W
					Special Reqs.
					POS TARG 97.8737 8850981789,-92.596 1) 57881122874; LOW-SKY
					Groups
					Pattern 1, Exps 1-1 (1)
					Exp. Time/[Actual Dur.]
					480 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]
Orbit Structure					Orbit
					[1]
	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 27 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 28, implementation Fri Aug 20 01:24:50 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 26				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	SPTCLJ2337-5942	RA: 23 37 24.9600 (354.3540000d) Dec: -59 42 18.00 (-59.70500d) Equinox: J2000	Redshift: 0.781	V=27
Exposures					
	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(6) SPTCLJ2337-5942	ACS/WFC, ACCUM, WFCENTER	F606W	
Exposures					
	Special Reqs. POS TARG -97.873 78850981786,92.596 1) 57881122874; LOW-SKY Groups Pattern 1, Exps 1-1 (1) Exp. Time/[Actual Dur.] 480 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] Orbit [1]				
Orbit Structure	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 28 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 29, implementation Fri Aug 20 01:24:50 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 26				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	SPTCLJ2337-5942	RA: 23 37 24.9600 (354.3540000d) Dec: -59 42 18.00 (-59.70500d) Equinox: J2000	Redshift: 0.781	V=27
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1		(6) SPTCLJ2337-5942	ACS/WFC, ACCUM, WFCENTER	F606W
					Opt. Params.
					Special Reqs.
					Groups
					Exp. Time/[Actual Dur.]
					Orbit
					[1]
Orbit Structure	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 29 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 30, implementation Fri Aug 20 01:24:50 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true	(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	SPTCLJ2337-5942	RA: 23 37 24.9600 (354.3540000d) Dec: -59 42 18.00 (-59.70500d) Equinox: J2000	Redshift: 0.781	V=27
Exposures					Miscellaneous
	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1		(6) SPTCLJ2337-5942	ACS/WFC, ACCUM, WFCENTER	F814W
Exposures					Opt. Params.
	LOW-SKY				
Exposures					Special Reqs.
	Pattern 2, Exps 1-1 (2)				
Exposures					Groups
	479 Secs				
Exposures					Exp. Time/[Actual Dur.]
	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]				
Exposures					Orbit
	[1]				
Orbit Structure	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 30 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 31, implementation										Fri Aug 20 01:24:50 GMT 2010																			
	Diagnostic Status: No Diagnostics																													
	Scientific Instruments: ACS/WFC																													
	Special Requirements: GROUP 31,32,33,34 WITHIN 4 Orbits																													
Patterns	#	Primary Pattern										Secondary Pattern										Exposures								
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187																				(1)								
Fixed Targets	#	Name		Target Coordinates				Targ. Coord. Corrections				Fluxes				Miscellaneous														
	(7)	SPTCLJ2359-5009		RA: 23 59 41.0400 (359.9210000d) Dec: -50 09 36.00 (-50.16000d) Equinox: J2000				Redshift: 0.76				V=27				Reference Frame: ICRS														
Exposures	#	Label	Target	Config,Mode,Aperture			Spectral Els.		Opt. Params.		Special Reqs.		Groups		Exp. Time/[Actual Dur.]		Orbit													
	1		(7) SPTCLJ2359-5009	ACS/WFC, ACCUM, WFCENTER			F606W				POS TARG -96.139 23740221945,-106.1 6329118877118; LOW-SKY; GS ACQ SCENARI O BASE1B3		Pattern 1, Exps 1-1 (1)		480 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]													
Orbit Structure	Orbit 1																				Server Version: 20100505									

Proposal 12246 - Visit 31 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 32, implementation Fri Aug 20 01:24:50 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 31				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(7)	SPTCLJ2359-5009	RA: 23 59 41.0400 (359.9210000d) Dec: -50 09 36.00 (-50.16000d) Equinox: J2000	Redshift: 0.76	V=27
Exposures					
	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(7) SPTCLJ2359-5009	ACS/WFC, ACCUM, WFCENTER	F606W	
					Opt. Params.
					Special Reqs.
					Groups
					Exp. Time/[Actual Dur.]
					Orbit
					[1]
Orbit Structure					
	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 32 - Weak Lensing Mass Calibration of SZ-Selected Clusters

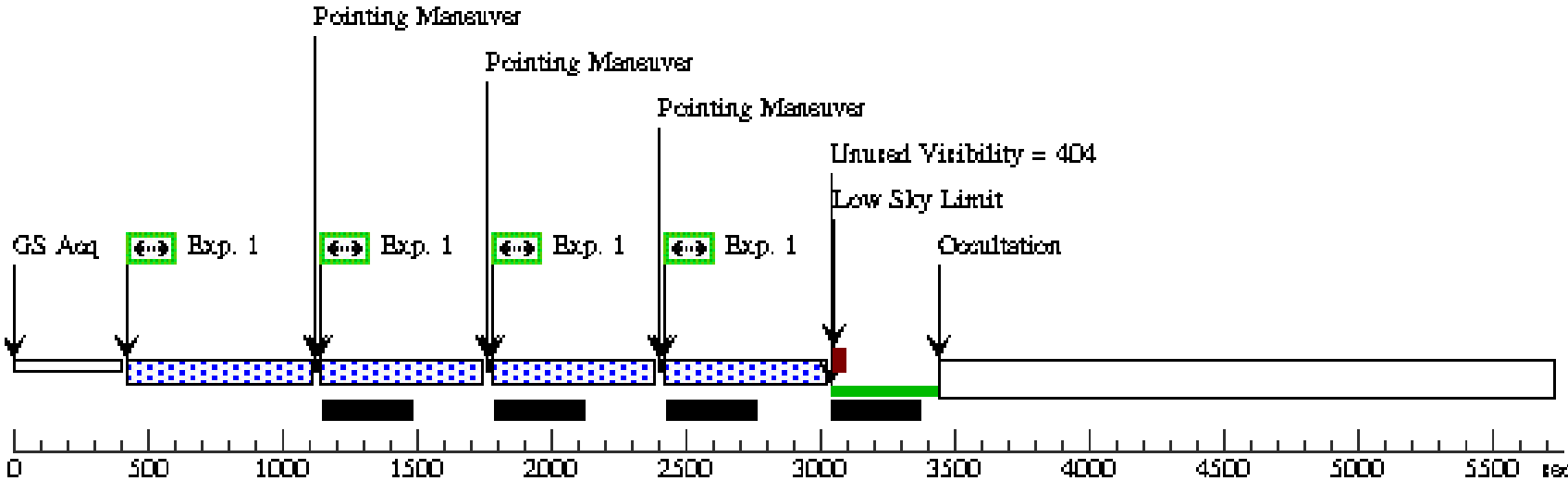
Visit	Proposal 12246, Visit 33, implementation Fri Aug 20 01:24:51 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 31				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(7)	SPTCLJ2359-5009	RA: 23 59 41.0400 (359.9210000d) Dec: -50 09 36.00 (-50.16000d) Equinox: J2000	Redshift: 0.76	V=27
Exposures					
	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1		(7) SPTCLJ2359-5009	ACS/WFC, ACCUM, WFCENTER	F606W
					Opt. Params.
					Special Reqs.
					Groups
					Exp. Time/[Actual Dur.]
					Orbit
					[1]
Orbit Structure					
	Orbit 1 Server Version: 20100505				

Proposal 12246 - Visit 33 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 34, implementation Fri Aug 20 01:24:51 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 31				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Coordinate Frame=POS-TARG Pattern Orientation=20.67 Purpose=DITHER Angle Between Sides=69.05 Number Of Points=4 Center Pattern=false Point Spacing=0.265 Line Spacing=0.187			(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(7)	SPTCLJ2359-5009	RA: 23 59 41.0400 (359.9210000d) Dec: -50 09 36.00 (-50.16000d) Equinox: J2000	Redshift: 0.76	V=27
Exposures					Miscellaneous
	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(7) SPTCLJ2359-5009	ACS/WFC, ACCUM, WFCENTER	F606W	
Exposures					Opt. Params.
					Special Reqs.
Exposures					Groups
					Exp. Time/[Actual Dur.]
Exposures					Orbit
					[1]
Orbit Structure					

Orbit 1

Server Version: 20100505



Proposal 12246 - Visit 34 - Weak Lensing Mass Calibration of SZ-Selected Clusters

Visit	Proposal 12246, Visit 35, implementation Fri Aug 20 01:24:51 GMT 2010				
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)				
Patterns	#	Primary Pattern		Secondary Pattern	Exposures
	(2)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=4 Point Spacing=3.011 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=true	(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(7)	SPTCLJ2359-5009	RA: 23 59 41.0400 (359.9210000d) Dec: -50 09 36.00 (-50.16000d) Equinox: J2000	Redshift: 0.76	V=27
Exposures					Miscellaneous
	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.
	1	(7) SPTCLJ2359-5009	ACS/WFC, ACCUM, WFCENTER	F814W	LOW-SKY
Exposures					Special Reqs.
					Pattern 2, Exps 1-1 (2)
Exposures					Exp. Time/[Actual Dur.]
					480 Secs
Exposures					[==>(Pattern 1)]
					[==>(Pattern 2)]
Exposures					[==>(Pattern 3)]
					[==>(Pattern 4)]
Exposures					[1]
Orbit Structure	Orbit 1 Server Version: 20100505				