



10594 - The Formation of Spiral Spheroids and Their Globular Cluster Systems

Cycle: 14, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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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	ANY (1) NGC3190-POS1 (6) NGC3190-POS2	ACS/WFC WFPC2	2	13-May-2005 17:09:51.0	yes
02	ANY (2) NGC4710	ACS/WFC WFPC2	1	13-May-2005 17:10:02.0	yes
03	ANY (5) NGC5475	ACS/WFC WFPC2	2	13-May-2005 17:10:22.0	yes
04	ANY (4) NGC5308	ACS/WFC WFPC2	1	20-Jun-2005 11:32:09.0	yes
05	ANY (3) NGC4866	ACS/WFC WFPC2	2	20-Jun-2005 11:32:19.0	yes

8 Total Orbits Used

ABSTRACT

The assembly history of spiral galaxies remains one of the most pressing questions in astrophysics today. In particular, we do not have a clear picture of the formation mechanism for bulges of spiral galaxies. Are bulges of spirals simply "small ellipticals", formed via rapid dissipative collapse during the early universe? Or is bulge building through secular evolution of inner disk stars a more common mechanism? Is there any dependence on bulge mass? A powerful yet relatively simple way to probe these fundamental questions is by studying the properties of globular cluster (GC) systems of spirals. Specifically, bulge formation via secular evolution is expected not to form GCs, whereas bulge formation via dissipative collapse is. We therefore propose to obtain ACS/WFC imaging as well as ground-based, wide-field imaging of five edge-on Sa spirals which cover a factor ~ 15 in luminosity/mass, and for which spectroscopic follow-up is feasible. This constitutes the first luminosity-selected sample of early-type spirals, which will allow us to directly probe the dependence of GC properties on the bulge luminosity. We will detect a minimum of ~ 100 -200 GCs per galaxy in the ACS images, sufficient to reveal GC subpopulations, their relative numbers, sizes, and radial distributions. This study will more than double the number of well-studied early-type spiral systems.

OBSERVING DESCRIPTION

The wide-field channel of the Advanced Camera for Surveys (ACS) is used with the two broad-band filters F475W and F814W for the 5 target Sa galaxies. This filter choice was driven by the wish to strike the happy mean between best sensitivity and longest color baseline. All long exposures will be split into two or three sub-exposures per filter. Short exposures have been added (one for each filter) for two targets for which rather bright stars fall in the field of view of the ACS images. The sub-exposures are positioned so as to allow cosmic-ray removal and two-position dithering. Center coordinates were chosen to ensure a full radial coverage of 4 bulge effective radii.

Coordinated WFPC2 parallels were approved and inserted to provide a measurement of the number density of compact background galaxies as a function of magnitude and color, to be subtracted from the measured luminosity functions of the candidate star clusters in the ACS field. ORIENT constraints for every visit were chosen to avoid stray light due to bright stars near the field of view of the WFPC2 CCDs. Fortunately, these ORIENT constraints do not cause any problems regarding the schedulability of the visits.

Proposal 10594 - Visit 01 - The Formation of Spiral Spheroids and Their Globular Cluster Systems

Mon Jun 20 15:32:26 GMT 2005

Visit	Proposal 10594, Visit 01									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: ACS/WFC, WFPC2									
	Special Requirements: ORIENT 285.0D TO 293.0 D									
	<i>Comments: NGC 3190 visit. ORIENT range to avoid stray light *and* positioning of WFPC2 parallels onto nearby galaxy.</i>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC3190-POS1	RA: 10 18 1.3500 (154.5056250d) Dec: +21 51 38.00 (21.86056d) Equinox: J2000 Plate Id: 027Z		V=11.15+/-0.1	Coordinate Source: GSC_SURVEY_PLATE				
	(6)	NGC3190-POS2	RA: 10 18 13.5600 (154.5565000d) Dec: +21 50 25.50 (21.84042d) Equinox: J2000 Plate Id: 027Z		V=11.15+/-0.1	Coordinate Source: GSC_SURVEY_PLATE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N3190/F814 W	(1) NGC3190-POS1	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	430.0 Secs [==>]	[1]
	2		ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 1-2	260.0 Secs [==>]	[1]
	3	N3190/F814 W	(1) NGC3190-POS1	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2	POS TARG 0.27335, 0.13375	Prime + Parallel Group 3-4	570.0 Secs [==>]	[1]
	4		ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 3-4	400.0 Secs [==>]	[1]
	5	N3190/F475 W	(1) NGC3190-POS1	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 5-6	560.0 Secs [==>582.0 Secs]	[1]
	6		ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 5-6	400.0 Secs [==>]	[1]
	7	N3190/F475 W	(1) NGC3190-POS1	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO; GAIN=2	POS TARG 0.27335, 0.13375	Prime + Parallel Group 7-8	560.0 Secs [==>582.0 Secs]	[1]
	8		ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 7-8	400.0 Secs [==>500.0 Secs]	[1]
	9	N3190/F814 W	(6) NGC3190-POS2	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 9-10	430.0 Secs [==>]	[2]
	10		ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 9-10	260.0 Secs [==>]	[2]
	11	N3190/F814 W	(6) NGC3190-POS2	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2	POS TARG 0.27335, 0.13375	Prime + Parallel Group 11-12	570.0 Secs [==>]	[2]
	12		ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 11-12	400.0 Secs [==>]	[2]

Proposal 10594 - Visit 01 - The Formation of Spiral Spheroids and Their Globular Cluster Systems

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	13	N3190/F475 W	(6) NGC3190-POS2	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group up 13-14	560.0 Secs [=>582.0 Secs]	[2]
	14		ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group up 13-14	400.0 Secs [=>]	[2]
	15	N3190/F475 W	(6) NGC3190-POS2	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO; GAIN=2	POS TARG 0.27335, 0.13375	Prime + Parallel Group up 15-16	560.0 Secs [=>582.0 Secs]	[2]
	16		ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group up 15-16	400.0 Secs [=>500.0 Secs]	[2]

Proposal 10594 - Visit 02 - The Formation of Spiral Spheroids and Their Globular Cluster Systems

Mon Jun 20 15:32:27 GMT 2005

Visit	Proposal 10594, Visit 02 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFPC2 Special Requirements: (none) Comments: NGC 4710 visit.									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	NGC4710	RA: 12 49 34.3400 (192.3930833d) Dec: +15 10 34.00 (15.17611d) Equinox: J2000 Plate Id: 01PP			V=11.02+/-0.1	Coordinate Source: GSC_SURVEY_PLATE			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N4710/F814 W	(2) NGC4710	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	430.0 Secs [==>]	[1]
	2		ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 1-2	260.0 Secs [==>]	[1]
	3	N4710/F814 W	(2) NGC4710	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2	POS TARG 0.27335, 0.13375	Prime + Parallel Group 3-4	570.0 Secs [==>]	[1]
	4		ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 3-4	400.0 Secs [==>]	[1]
	5	N4710/F475 W	(2) NGC4710	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 5-6	560.0 Secs [==>582.0 Secs]	[1]
	6		ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 5-6	400.0 Secs [==>]	[1]
	7	N4710/F475 W	(2) NGC4710	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO; GAIN=2	POS TARG 0.27335, 0.13375	Prime + Parallel Group 7-8	560.0 Secs [==>582.0 Secs]	[1]
	8		ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 7-8	400.0 Secs [==>500.0 Secs]	[1]

Proposal 10594 - Visit 03 - The Formation of Spiral Spheroids and Their Globular Cluster Systems

Mon Jun 20 15:32:27 GMT 2005

Visit	Proposal 10594, Visit 03 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFPC2 Special Requirements: ORIENT 0.0D TO 51.0 D; ORIENT 58.0D TO 66.0 D; ORIENT 86.0D TO 108.0 D; ORIENT 118.0D TO 199.0 D; ORIENT 206.0D TO 213.0 D; ORIENT 227.0D TO 359.9 D; VISIBILITY INTERVAL 4200 S Comments: NGC 5475 visit. ORIENTs chosen to avoid scattered light problems in WFPC2 images.									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.304 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=26.1 Angle Between Sides= Center Pattern=false		(5-6), (9-10), (11-12)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	NGC5475	RA: 14 05 16.2730 (211.3178042d) Dec: +55 44 45.87 (55.74608d) Equinox: J2000 Plate Id: 003A		V=(?) B = 13.70 +/- 0.10	Coordinate Source: GSC_SURVEY_PLATE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N5475/F814 W/560	(5) NGC5475	ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO; GAIN=2	POS TARG 0,0	Prime + Parallel Group 1-2	560.0 Secs [==>]	[1]
	2	N5475/F555 W/400	ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 1-2	400.0 Secs [==>]	[1]
	3	N5475/F814 W	(5) NGC5475	ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO; GAIN=2	POS TARG 0.27335, 0.13375	Prime + Parallel Group 3-4	560.0 Secs [==>]	[1]
	4	N5475/F555 W/400	ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 3-4	400.0 Secs [==>]	[1]
	5	N5475/F814 W	(5) NGC5475	ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO; GAIN=2	POS TARG 0.248, 0.001	Pattern 5-6 (1) Prime + Parallel Group 5-6	600.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	6	N5475/F555 W/400	ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Pattern 5-6 (1) Prime + Parallel Group 5-6	400.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	N5475/F475 W/600	(5) NGC5475	ACS/WFC, ACCUM, WFC-FIX	F475W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 7-8	600.0 Secs [==>]	[1]
	8	N5475/F814 W/400+	ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 7-8	400.0 Secs [==>500.0 Secs]	[1]

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Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	9	N5475/F475 W/600	(5) NGC5475	ACS/WFC, ACCUM, WFC-FIX	F475W	CR-SPLIT=NO; GAIN=2	POS TARG 0.27335, 0.13375	Pattern 9-10 (1) Prime + Parallel Gro up 9-10	560.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	10	N5475/F814 W/400+	ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Pattern 9-10 (1) Prime + Parallel Gro up 9-10	400.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	11	N5475/F475 W/1100	(5) NGC5475	ACS/WFC, ACCUM, WFC-FIX	F475W	CR-SPLIT=NO; GAIN=2	POS TARG 0.248,3. 001	Pattern 11-12 (1) Prime + Parallel Gro up 11-12	1040.0 Secs [==>1050.0 Secs (Pattern 1)] [==>1050.0 Secs (Pattern 2)]	[2]
	12	N5475/F814 W/900	ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Pattern 11-12 (1) Prime + Parallel Gro up 11-12	800.0 Secs [==>800.0 Secs (Pattern 1)] [==>1000.0 Secs (Pattern 2)]	[2]

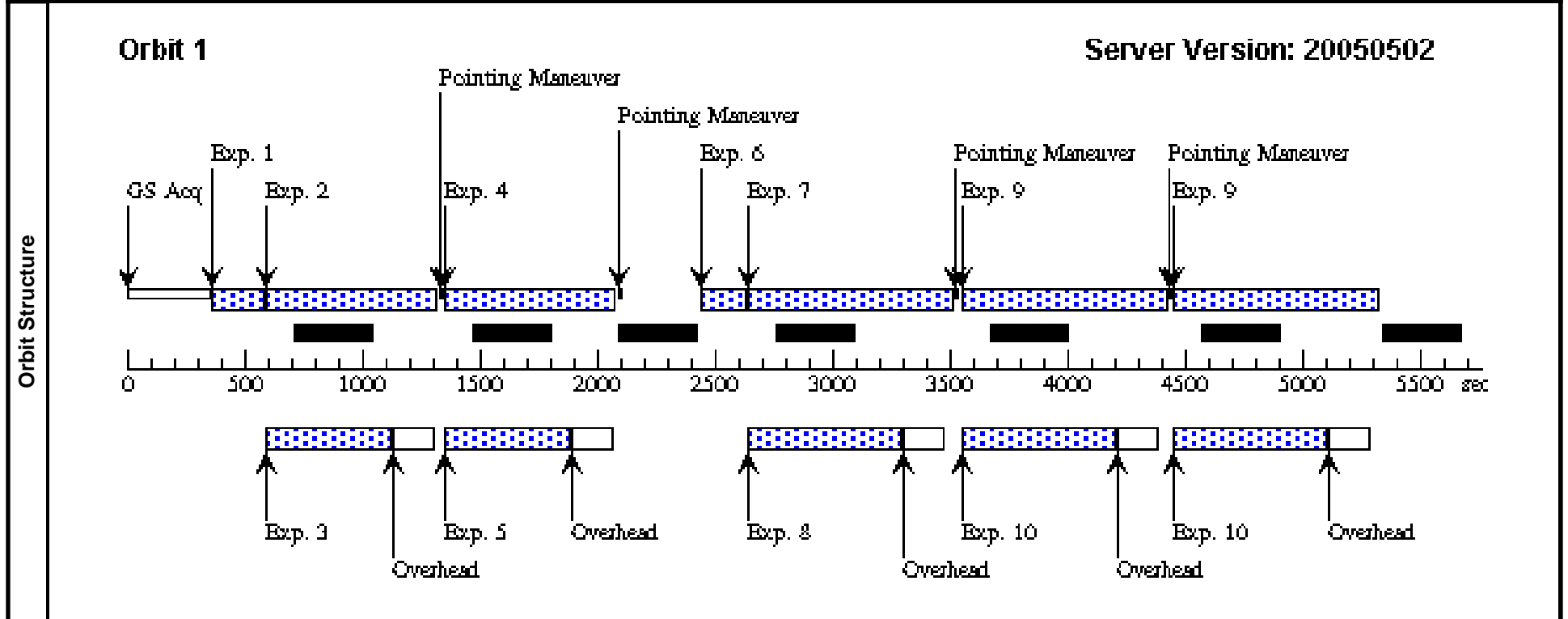
Proposal 10594 - Visit 04 - The Formation of Spiral Spheroids and Their Globular Cluster Systems

Mon Jun 20 15:32:27 GMT 2005

Visit	Proposal 10594, Visit 04 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFPC2 Special Requirements: CVZ; ORIENT 0.1D TO 7.0 D; ORIENT 11.5D TO 25.0 D; ORIENT 36.0D TO 107.0 D; ORIENT 141.0D TO 148.0 D; ORIENT 160.0D TO 210.0 D; ORIENT 216.0D TO 229.0 D; ORIENT 283.0D TO 286.0 D; ORIENT 291.0D TO 300.0 D; ORIENT 310.0D TO 313.0 D; ORIENT 345.0D TO 360.0 D Comments: NGC 5308 visit. ORIENTs chosen to avoid stray light in WFPC2 parallels.									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.304 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=26.1 Angle Between Sides= Center Pattern=false		(9-10)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	NGC5308	RA: 13 46 55.7958 (206.7324825d) Dec: +60 58 39.39 (60.97761d) Equinox: J2000 Plate Id: 01R0		V=11.39+/-0.1	Coordinate Source: GSC_SURVEY_PLATE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N5308/F814 W/short	(4) NGC5308	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2			10.0 Secs [==>]	[1]
	2	N5308/F814 W/600	(4) NGC5308	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 2-3	600.0 Secs [==>]	[1]
	3	N5308/F555 W/400	ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 2-3	400.0 Secs [==>]	[1]
	4	N5308/F814 W/600	(4) NGC5308	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO; GAIN=2	POS TARG 0.27335, 0.13375	Prime + Parallel Group 4-5	600.0 Secs [==>]	[1]
	5	N5308/F555 W/400	ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 4-5	400.0 Secs [==>]	[1]
	6	N5308/F475 W/short	(4) NGC5308	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO; GAIN=2			20.0 Secs [==>]	[1]
	7	N5308/F475 W/750	(4) NGC5308	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 7-8	750.0 Secs [==>]	[1]
	8	N5308/F814 W/500	ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 7-8	500.0 Secs [==>]	[1]
9	N5308/F475 W/750	(4) NGC5308	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO; GAIN=2	POS TARG 0.248,3.001	Pattern 9-10 (1) Prime + Parallel Group 9-10	750.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]	

Proposal 10594 - Visit 04 - The Formation of Spiral Spheroids and Their Globular Cluster Systems

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	10	N5308/F814 W/500	ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Pattern 9-10 (1) Prime + Parallel Group 9-10	500.0 Secs [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 10594 - Visit 05 - The Formation of Spiral Spheroids and Their Globular Cluster Systems

Mon Jun 20 15:32:28 GMT 2005

Visit	Proposal 10594, Visit 05 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC, WFPC2 Special Requirements: ORIENT 0.1D TO 68.0 D; ORIENT 72.0D TO 94.0 D; ORIENT 97.0D TO 101.0 D; ORIENT 106.0D TO 215.0 D; ORIENT 230.0D TO 271.0 D; ORIENT 277.0D TO 301.0 D; ORIENT 307.0D TO 338.0 D; ORIENT 344.0D TO 360.0 D Comments: NGC 4866 visit. ORIENT ranges to avoid stray light into WFPC2 parallels.									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.304 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=26.1 Angle Between Sides= Center Pattern=false		(13-14)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC4866	RA: 12 59 27.1000 (194.8629167d) Dec: +14 10 16.00 (14.17111d) Equinox: J2000 Plate Id: 01TH		V=11.22+/-0.1	Coordinate Source: GSC_SURVEY_PLATE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N4866/F814 W/250	(3) NGC4866	ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO; GAIN=2		Prime + Parallel Group 1-2	250.0 Secs [==>]	[1]
	2	N4866/F555 W/160	ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 1-2	160.0 Secs [==>]	[1]
	3	N4866/F814 W/570	(3) NGC4866	ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO; GAIN=2	POS TARG 0.27335, 0.13375	Prime + Parallel Group 3-4	570.0 Secs [==>]	[1]
	4	N4866/F555 W/400	ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 3-4	400.0 Secs [==>]	[1]
	5	N4866/F475 W/600	(3) NGC4866	ACS/WFC, ACCUM, WFC-FIX	F475W	CR-SPLIT=NO; GAIN=2	POS TARG 0,0	Prime + Parallel Group 5-6	600.0 Secs [==>657.0 Secs]	[1]
	6	N4866/F814 W/400	ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 5-6	400.0 Secs [==>500.0 Secs]	[1]
	7	N4866/F475 W/600	(3) NGC4866	ACS/WFC, ACCUM, WFC-FIX	F475W	CR-SPLIT=NO; GAIN=2	POS TARG 0.27335, 0.13375	Prime + Parallel Group 7-8	600.0 Secs [==>657.0 Secs]	[1]
	8	N4866/F814 W/400	ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 7-8	400.0 Secs [==>600.0 Secs]	[1]
9	N4866/F814 W/250	(3) NGC4866	ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO; GAIN=2	POS TARG 0.248,3.001	Prime + Parallel Group 9-10	250.0 Secs [==>]	[2]	

Proposal 10594 - Visit 05 - The Formation of Spiral Spheroids and Their Globular Cluster Systems

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
10	N4866/F555 W/160	ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 9-10	160.0 Secs [==>]	[2]
11	N4866/F814 W/570	(3) NGC4866	ACS/WFC, ACCUM, WFC-FIX	F814W	CR-SPLIT=NO; GAIN=2	POS TARG 0.52135, 3.13475	Prime + Parallel Group 11-12	570.0 Secs [==>]	[2]
12	N4866/F555 W/400	ANY	WFPC2, IMAGE, WFALL-FIX	F555W	ATD-GAIN=7; CR-SPLIT=NO		Prime + Parallel Group 11-12	400.0 Secs [==>]	[2]
13	N4866/F475 W/600	(3) NGC4866	ACS/WFC, ACCUM, WFC-FIX	F475W	CR-SPLIT=NO; GAIN=2	POS TARG 0.248,3. 001	Pattern 13-14 (1) Prime + Parallel Group 13-14	600.0 Secs [==>690.0 Secs (Pattern 1)] [==>690.0 Secs (Pattern 2)]	[2]
14	N4866/F814 W/400	ANY	WFPC2, IMAGE, WFALL-FIX	F814W	ATD-GAIN=7; CR-SPLIT=NO		Pattern 13-14 (1) Prime + Parallel Group 13-14	400.0 Secs [==>500.0 Secs (Pattern 1)] [==>600.0 Secs (Pattern 2)]	[2]

