



11589 - Hypervelocity Stars as Unique Probes of the Galactic Center and Outer Halo

Cycle: 17, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<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>
01	(1) SDSSJ110557.45+093439.5	WFC3/UVIS	1	23-Oct-2009 21:26:49.0	yes
02	(2) SDSSJ113312.12+010824.9	WFC3/UVIS	1	23-Oct-2009 21:26:54.0	yes
03	(3) SDSSJ094214.04+200322.1	WFC3/UVIS	1	23-Oct-2009 21:26:59.0	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>
04	(4) SDSSJ102137.08-005234.8	WFC3/UVIS	1	23-Oct-2009 21:27:02.0	yes
05	(5) SDSSJ120337.86+180250.4	WFC3/UVIS	1	23-Oct-2009 21:27:06.0	yes
06	(6) SDSSJ105009.60+031550.7	WFC3/UVIS	1	23-Oct-2009 21:27:10.0	yes
07	(7) SDSSJ105248.31-000133.9	WFC3/UVIS	1	23-Oct-2009 21:27:13.0	yes
08	(8) SDSSJ144955.58+310351.4	WFC3/UVIS	1	23-Oct-2009 21:27:16.0	yes
09	(9) SDSSJ101018.83+302028.2	WFC3/UVIS	1	23-Oct-2009 21:27:19.0	yes
10	(10) SDSSJ110224.37+025002.8	WFC3/UVIS	1	23-Oct-2009 21:27:23.0	yes
11	(11) SDSSJ142001.94+124404.8	WFC3/UVIS	1	23-Oct-2009 21:27:26.0	yes

11 Total Orbits Used

ABSTRACT

We propose to obtain high-resolution images of 11 new hypervelocity stars in the Galactic halo in order to establish the first-epoch astrometric frame, as a part of a long-term program to measure precise proper motions in an absolute inertial frame. The origin of these recently discovered stars with extremely large positive radial velocities, in excess of the escape speed from the Galaxy, is consistent only with being ejected from the deep potential well of the massive black hole at the Galactic center. Reconstructing the full three-dimensional space motion of the hypervelocity stars, through astrometric proper motions, provides a unique opportunity to measure the shape and orientation of the triaxial dark matter halo. The hypervelocity stars allow determination of the Galactic potential out to 120 kpc, independently of and at larger distances than is afforded by tidal streams of satellite galaxies such as the Sagittarius dSph galaxy. Proper motions of the full set of hypervelocity stars will provide unique constraints on massive star formation in the environment of the Galactic center and on the history of stellar ejection by the supermassive black hole. We request one orbit with WFC3 for each of the 11 hypervelocity stars to establish their current positions relative to background galaxies. We request a repeated observation of these stars in Cycle 19, which will conclusively measure the astrometric proper motions.

OBSERVING DESCRIPTION

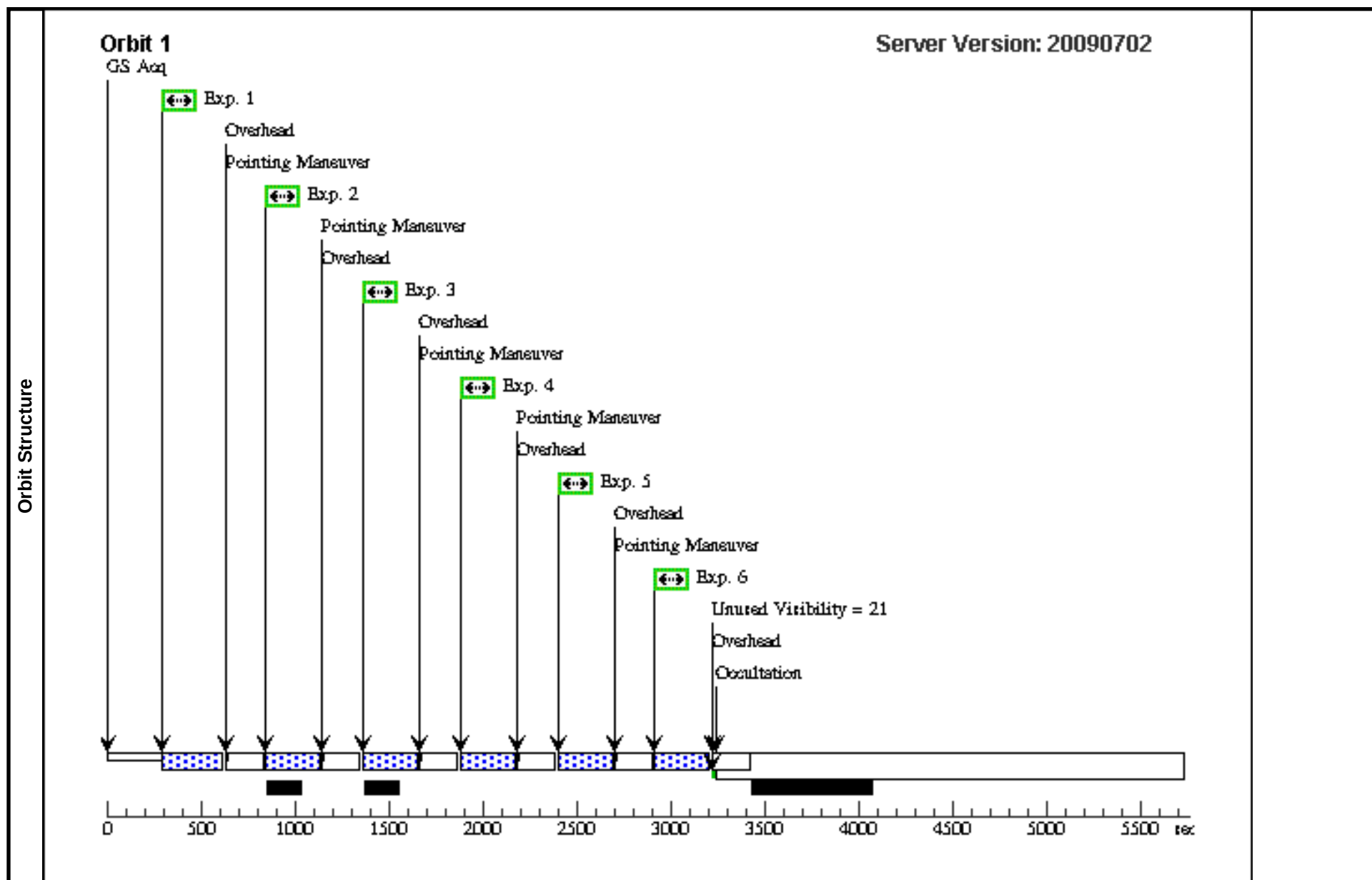
We will obtain dithered WFC3 F606W exposures of each of the 11 targets, with the target star placed in the center of the UVIS1 chip. For the brighter targets, we use the 2kx4k subarray, to improve observing efficiency. For the brightest targets, we alternate short unsaturated exposures with longer saturated ones at the same dither positions that reach the background reference galaxies.

We are putting BEFORE requirements on the observations due to the need for a maximal time baseline for the proper-motion measurements. Ideally, observations should be obtained as soon as possible after the instrument has stabilized following SM4--but not TOO soon, since we have exacting astrometric requirements. In each case we have allowed about a 2-month window reasonably early in Cycle 17, generally April-May 2009 for most targets.

These are the first-epoch observations, to be repeated in Cycle 19 in order to determine absolute proper motions with respect to the background galaxies.

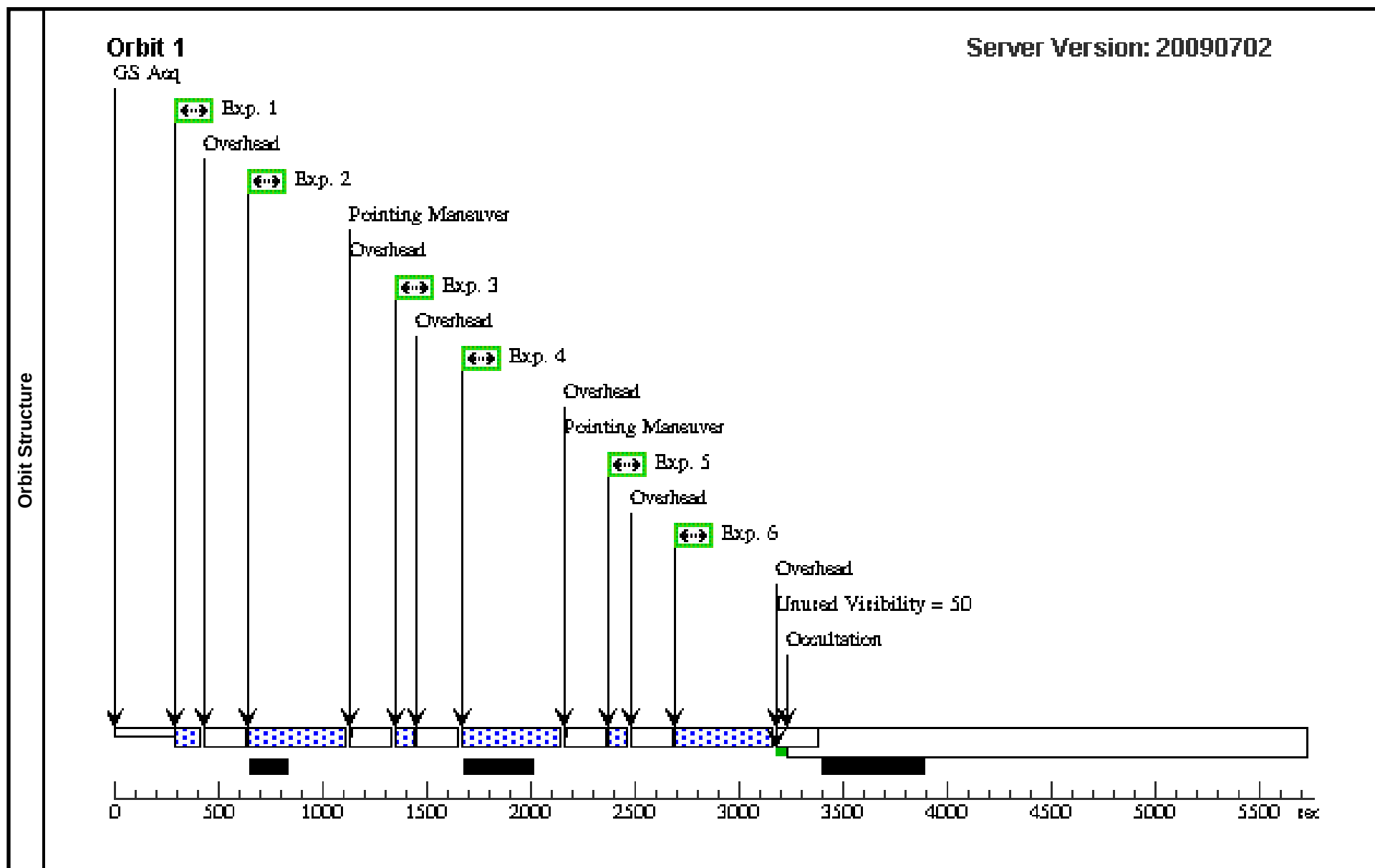
Proposal 11589 - Visit 01 - Hypervelocity Stars as Unique Probes of the Galactic Center and Outer Halo

Visit	Proposal 11589, Visit 01, scheduling Sat Oct 24 01:27:29 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 27-NOV-2009:00:00:00									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	SDSSJ110557.45+093439.5	RA: 11 05 57.4500 (166.4893750d) Dec: +09 34 39.47 (9.57763d) Equinox: J2000			V=19.1+/-0.2		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) SDSSJ110557.45+093439.5	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.3950 4,-0.10622		300 Secs [==>290 Secs]	[1]
	2		(1) SDSSJ110557.45+093439.5	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.2370 2,0.38951		300 Secs [==>290 Secs]	[1]
	3		(1) SDSSJ110557.45+093439.5	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.0790 1,-0.37235		300 Secs [==>290 Secs]	[1]
	4		(1) SDSSJ110557.45+093439.5	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.09876, 0.08551		300 Secs [==>290 Secs]	[1]
	5		(1) SDSSJ110557.45+093439.5	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.25677, -0.20476		300 Secs [==>290 Secs]	[1]
	6		(1) SDSSJ110557.45+093439.5	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.41479, null		300 Secs [==>290 Secs]	[1]



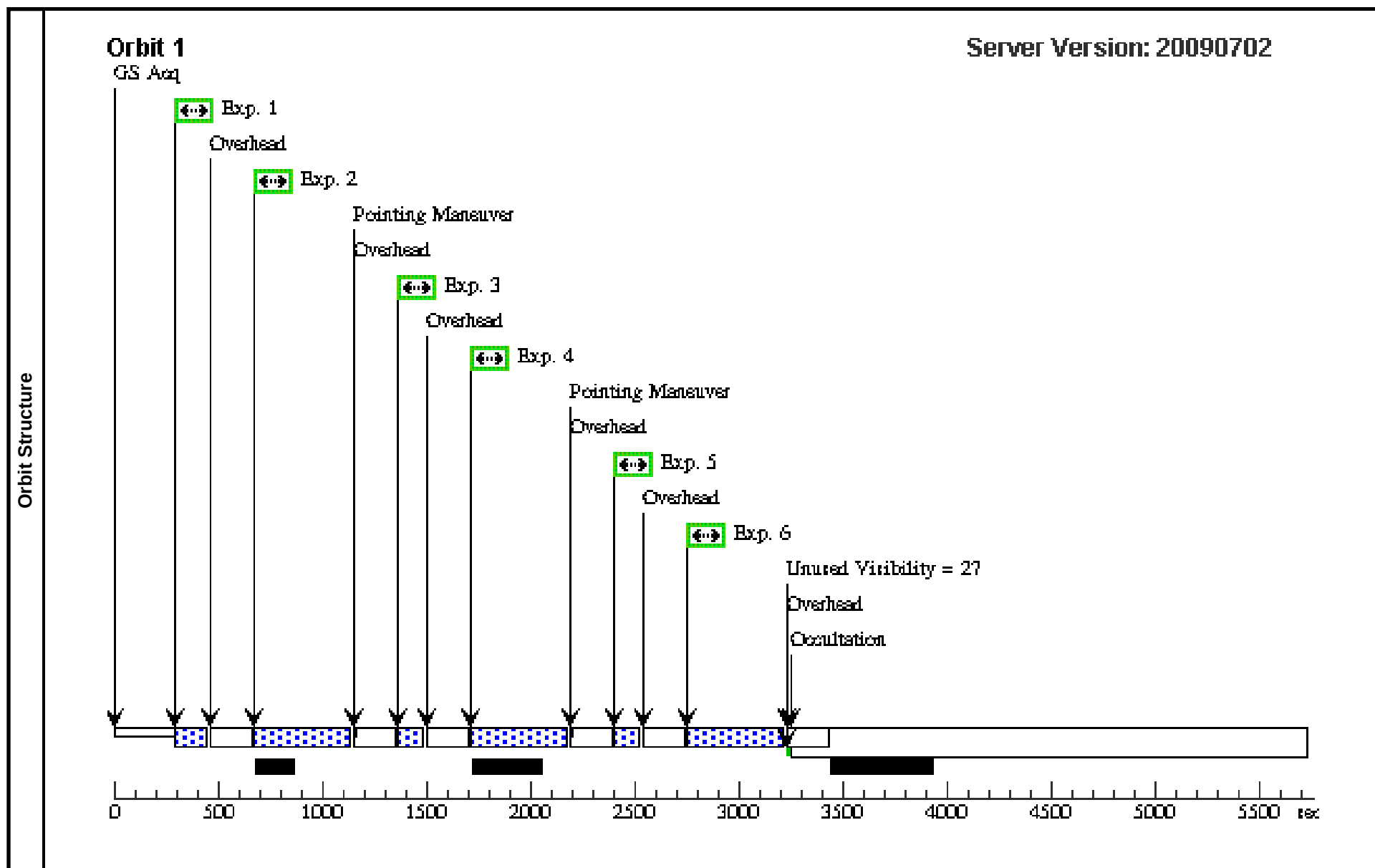
Proposal 11589 - Visit 02 - Hypervelocity Stars as Unique Probes of the Galactic Center and Outer Halo

Visit	Proposal 11589, Visit 02, scheduling Sat Oct 24 01:27:30 GMT 2009 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 05-DEC-2009:00:00:00									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	SDSSJ113312.12+010824.9	RA: 11 33 12.1230 (173.3005125d) Dec: +01 08 24.87 (1.14024d) Equinox: J2000			V=17.7+/-0.2		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) SDSSJ113312.12+010824.9	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.0098 8,-0.00069		90 Secs [==>]	[1]
	2		(2) SDSSJ113312.12+010824.9	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 1		475 Secs [==>475.0 Secs]	[1]
	3		(2) SDSSJ113312.12+010824.9	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.1876 4,0.17355		90 Secs [==>]	[1]
	4		(2) SDSSJ113312.12+010824.9	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 3		475 Secs [==>475.0 Secs]	[1]
	5		(2) SDSSJ113312.12+010824.9	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.20739, -0.17217		90 Secs [==>]	[1]
	6		(2) SDSSJ113312.12+010824.9	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 5		475 Secs [==>475.0 Secs]	[1]



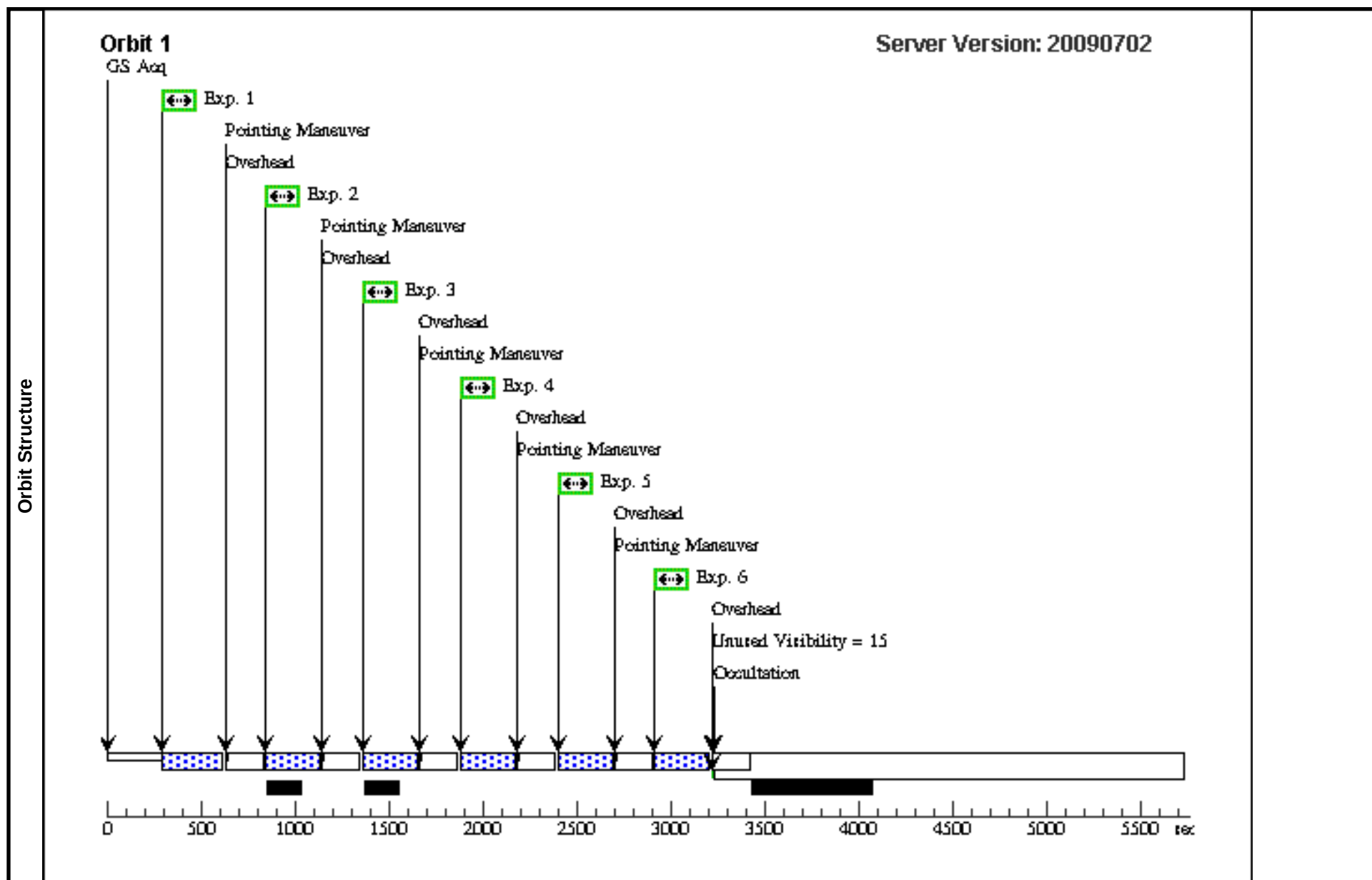
Proposal 11589 - Visit 03 - Hypervelocity Stars as Unique Probes of the Galactic Center and Outer Halo

Visit	Proposal 11589, Visit 03, implementation Sat Oct 24 01:27:30 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 22-NOV-2009:00:00:00									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	SDSSJ094214.04+200322.1	RA: 09 42 14.0380 (145.5584917d) Dec: +20 03 22.07 (20.05613d) Equinox: J2000			V=18.1+/-0.2		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) SDSSJ094214.04+200322.1	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.0098 8,-0.00069		120 Secs	
									[==>]	[1]
	2		(3) SDSSJ094214.04+200322.1	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 1		460 Secs	
									[==>]	[1]
	3		(3) SDSSJ094214.04+200322.1	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.1876 4,0.17355		120 Secs	
									[==>]	[1]
	4		(3) SDSSJ094214.04+200322.1	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 3		460 Secs	
									[==>]	[1]
	5		(3) SDSSJ094214.04+200322.1	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.20739, -0.17217		120 Secs	
									[==>]	[1]
	6		(3) SDSSJ094214.04+200322.1	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 5		460 Secs	
									[==>]	[1]



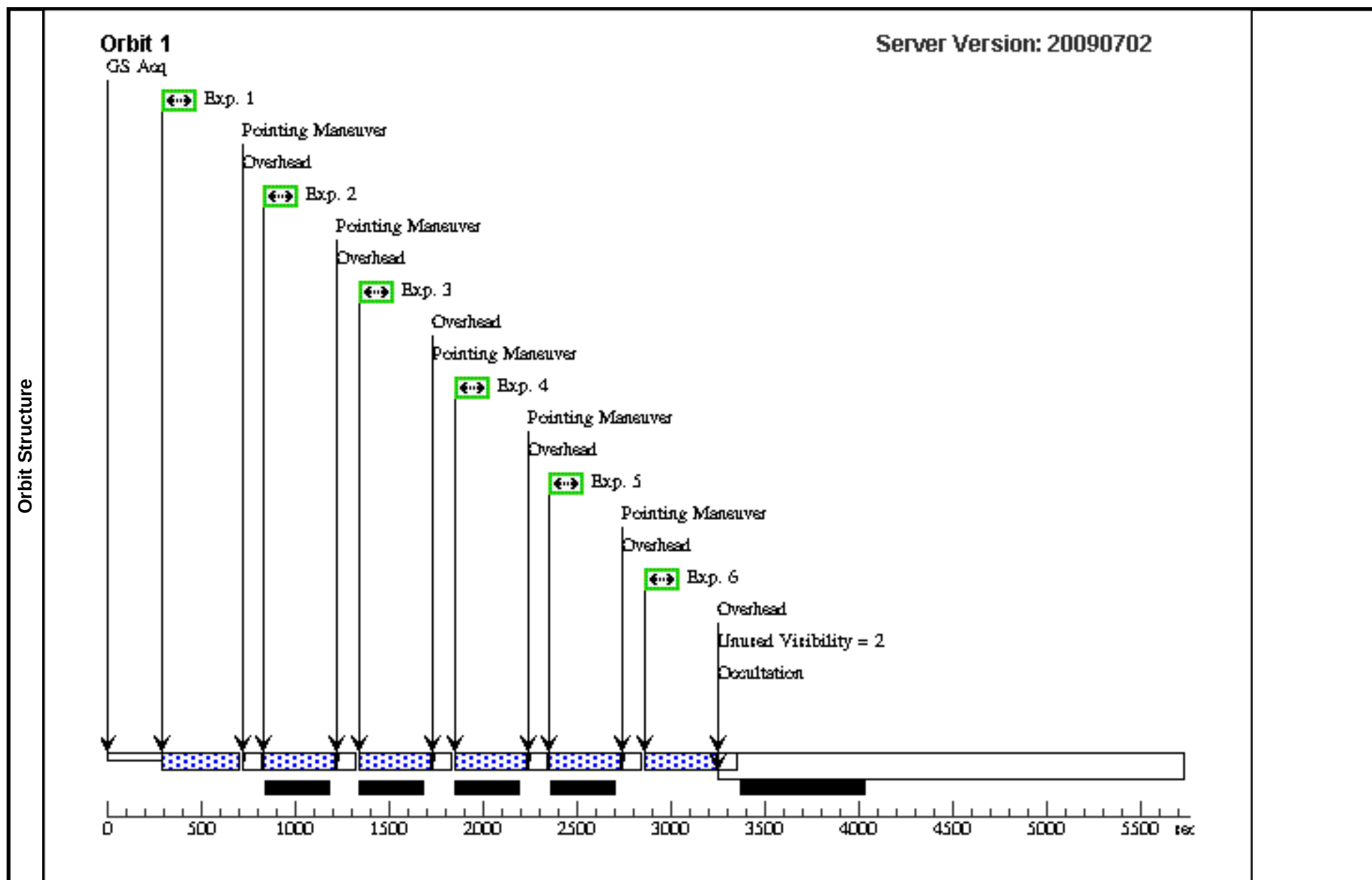
Proposal 11589 - Visit 04 - Hypervelocity Stars as Unique Probes of the Galactic Center and Outer Halo

Visit	Proposal 11589, Visit 04, scheduling										Sat Oct 24 01:27:31 GMT 2009
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: BEFORE 20-NOV-2009:00:00:00										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	SDSSJ102137.08-005234.8	RA: 10 21 37.0800 (155.4045000d) Dec: -00 52 34.77 (-.87633d) Equinox: J2000				V=18.8+/-0.2		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(4) SDSSJ102137.08-005234.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.3950 4,-0.10622		260 Secs		
									[==>290 Secs]		[1]
	2		(4) SDSSJ102137.08-005234.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.2370 2,0.38951		260 Secs		
									[==>290 Secs]		[1]
	3		(4) SDSSJ102137.08-005234.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.0790 1,-0.37235		260 Secs		
									[==>290 Secs]		[1]
	4		(4) SDSSJ102137.08-005234.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.09876, 0.08551		260 Secs		
									[==>290 Secs]		[1]
	5		(4) SDSSJ102137.08-005234.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.25677, -0.20476		260 Secs		
									[==>290 Secs]		[1]
	6		(4) SDSSJ102137.08-005234.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.41479, 0.29098		260 Secs		
									[==>290 Secs]		[1]



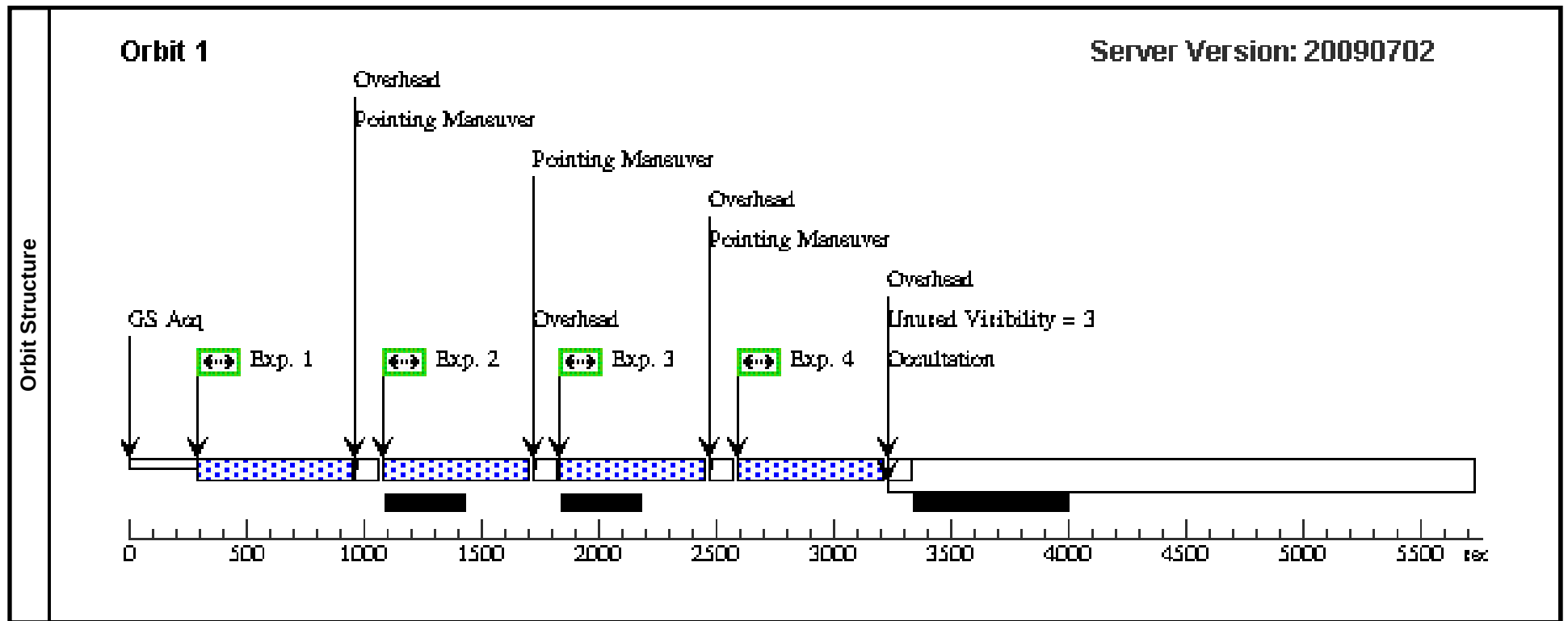
Proposal 11589 - Visit 05 - Hypervelocity Stars as Unique Probes of the Galactic Center and Outer Halo

Visit	Proposal 11589, Visit 05, scheduling Sat Oct 24 01:27:31 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 02-MAR-2010:00:00:00									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord.	Corrections	Fluxes	Miscellaneous			
	(5)	SDSSJ120337.86+180250.4	RA: 12 03 37.8550 (180.9077292d) Dec: +18 02 50.35 (18.04732d) Equinox: J2000			V=19.3+/-0.2	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) SDSSJ120337.86 +180250.4	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG -0.3950 4,-0.10622		370 Secs [==>379.0 Secs]	[1]
	2		(5) SDSSJ120337.86 +180250.4	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG -0.2370 2,0.38951		370 Secs [==>379.0 Secs]	[1]
	3		(5) SDSSJ120337.86 +180250.4	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG -0.0790 1,-0.37235		370 Secs [==>379.0 Secs]	[1]
	4		(5) SDSSJ120337.86 +180250.4	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG 0.09876, 0.08551		370 Secs [==>379.0 Secs]	[1]
	5		(5) SDSSJ120337.86 +180250.4	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG 0.25677, -0.20476		370 Secs [==>379.0 Secs]	[1]
	6		(5) SDSSJ120337.86 +180250.4	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG 0.41479, 0.29098		370 Secs [==>379.0 Secs]	[1]



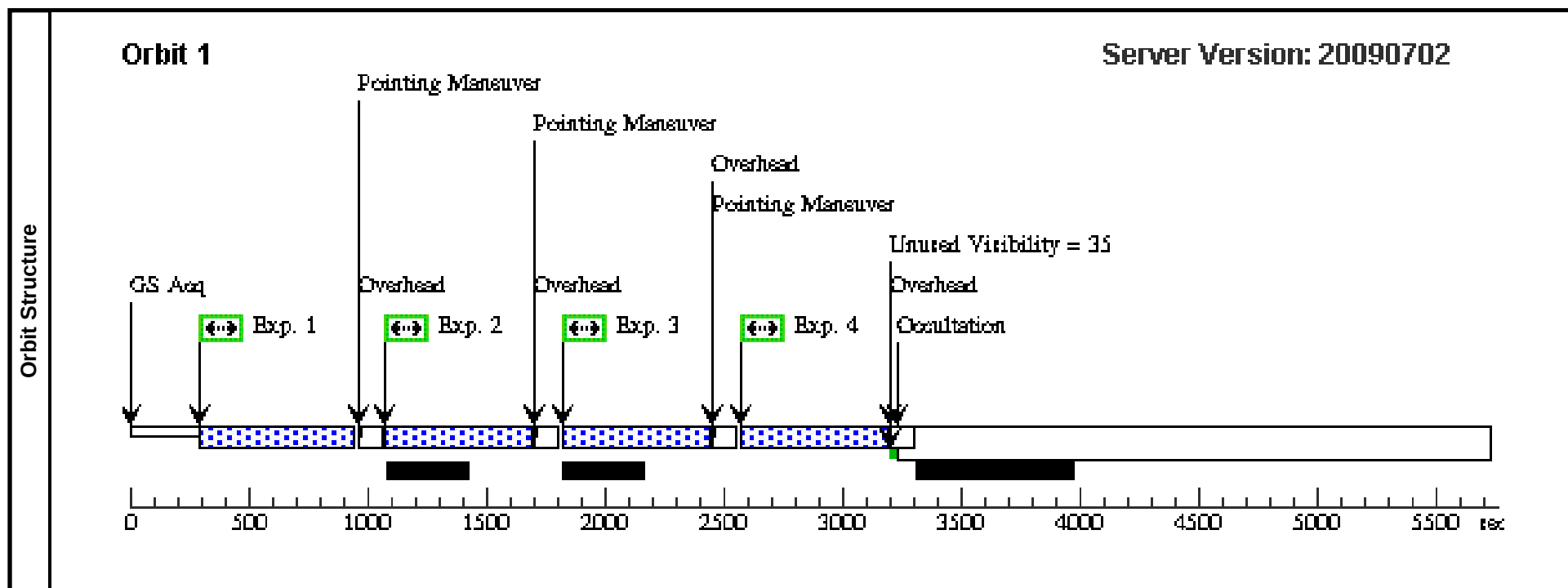
Proposal 11589 - Visit 06 - Hypervelocity Stars as Unique Probes of the Galactic Center and Outer Halo

Visit	Proposal 11589, Visit 06, scheduling Sat Oct 24 01:27:32 GMT 2009 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 26-NOV-2009:00:00:00									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	SDSSJ105009.60+031550.7	RA: 10 50 9.5950 (162.5399792d) Dec: +03 15 50.67 (3.26408d) Equinox: J2000		V=19.8+/-0.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) SDSSJ105009.60+031550.7	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG -0.2370 2,-0.13447		600 Secs [==>627.0 Secs]	[1]
	2		(6) SDSSJ105009.60+031550.7	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG 0.11851, -0.20786		600 Secs [==>627.0 Secs]	[1]
	3		(6) SDSSJ105009.60+031550.7	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG 0.25677, 0.13586		600 Secs [==>627.0 Secs]	[1]
	4		(6) SDSSJ105009.60+031550.7	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG -0.0987 6,0.24854		600 Secs [==>627.0 Secs]	[1]



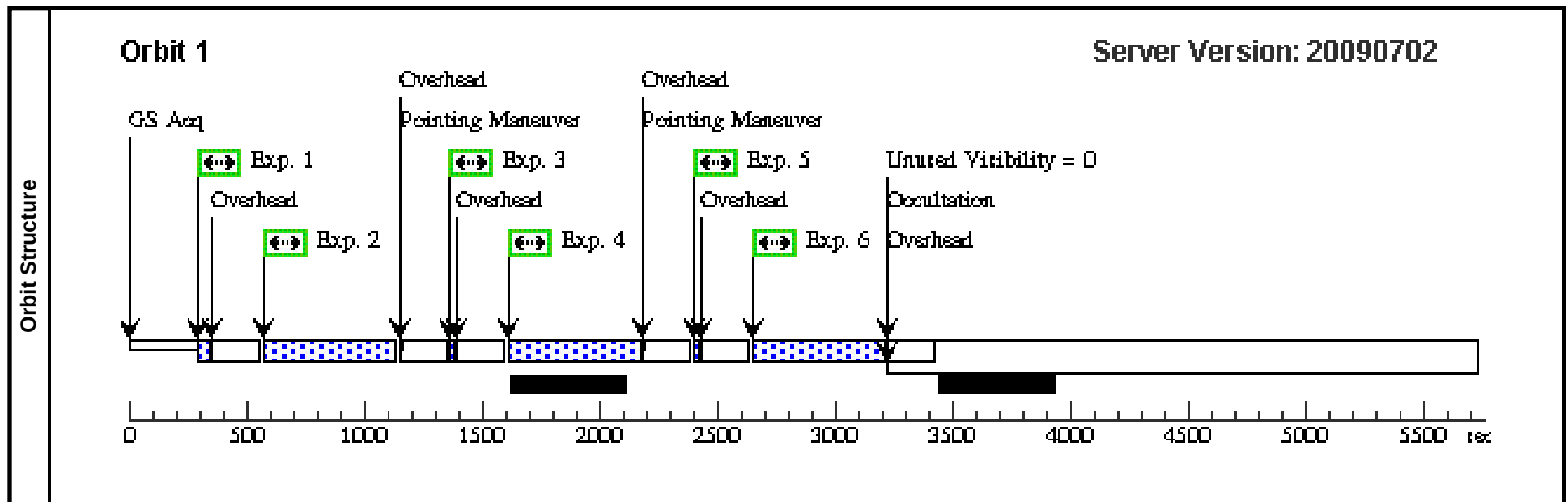
Proposal 11589 - Visit 07 - Hypervelocity Stars as Unique Probes of the Galactic Center and Outer Halo

Visit	Proposal 11589, Visit 07, scheduling Sat Oct 24 01:27:32 GMT 2009 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 27-NOV-2009:00:00:00									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	SDSSJ105248.31-000133.9	RA: 10 52 48.3060 (163.2012750d) Dec: -00 01 33.94 (-.02609d) Equinox: J2000		V=20.2+/-0.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) SDSSJ105248.31-000133.9	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG -0.2370 2,-0.13447; GS ACQ SCENARI O BASE1B3		600 Secs [==>619.0 Secs]	[1]
	2		(7) SDSSJ105248.31-000133.9	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG 0.11851, -0.20786		600 Secs [==>619.0 Secs]	[1]
	3		(7) SDSSJ105248.31-000133.9	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG 0.25677, 0.13586		600 Secs [==>619.0 Secs]	[1]
	4		(7) SDSSJ105248.31-000133.9	WFC3/UVIS, ACCUM, UVIS1	F606W	CR-SPLIT=NO	POS TARG -0.0987 6,0.24854		600 Secs [==>619.0 Secs]	[1]



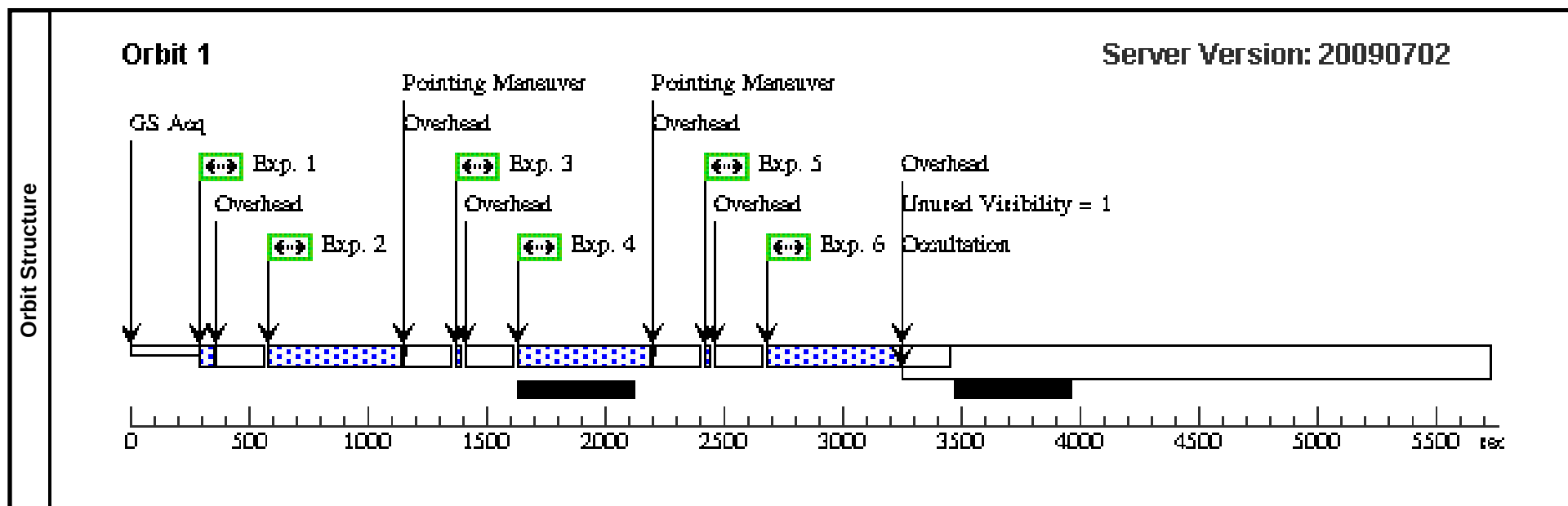
Proposal 11589 - Visit 08 - Hypervelocity Stars as Unique Probes of the Galactic Center and Outer Halo

Visit	Proposal 11589, Visit 08, scheduling Sat Oct 24 01:27:33 GMT 2009 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 50%; BEFORE 01-JAN-2010:00:00:00									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(8)	SDSSJ144955.58+310351.4	RA: 14 49 55.5800 (222.4815833d) Dec: +31 03 51.37 (31.06427d) Equinox: J2000			V=15.8+/-0.2		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) SDSSJ144955.58+310351.4	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.0098 8,-0.00069; GS ACQ SCENARI O BASE1B3		16 Secs [==>]	[1]
	2		(8) SDSSJ144955.58+310351.4	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 1		550 Secs [==>563.0 Secs]	[1]
	3		(8) SDSSJ144955.58+310351.4	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.1876 4,0.17355		16 Secs [==>]	[1]
	4		(8) SDSSJ144955.58+310351.4	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 3		550 Secs [==>563.0 Secs]	[1]
	5		(8) SDSSJ144955.58+310351.4	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.20739, -0.17217		16 Secs [==>]	[1]
	6		(8) SDSSJ144955.58+310351.4	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 5		550 Secs [==>563.0 Secs]	[1]



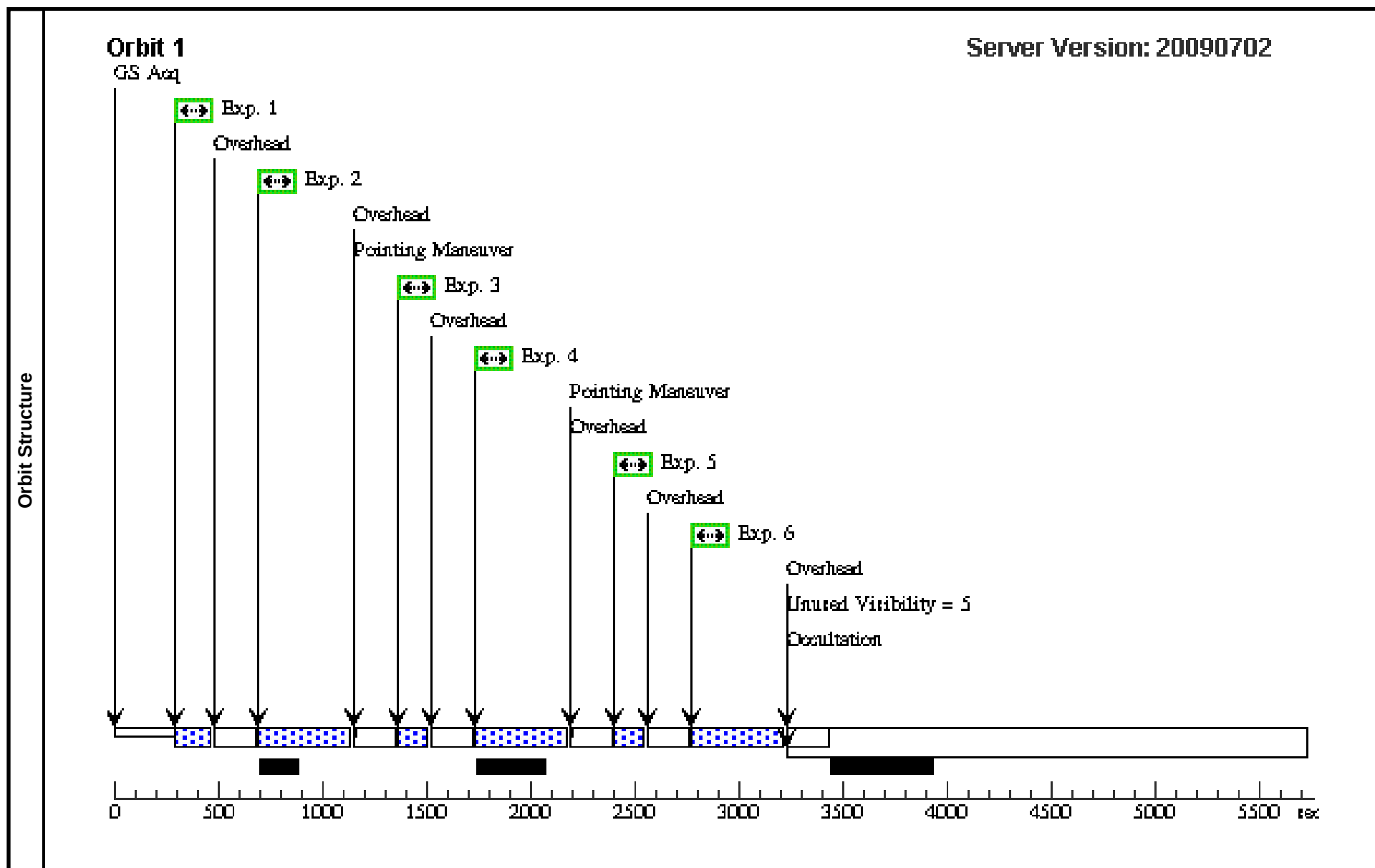
Proposal 11589 - Visit 09 - Hypervelocity Stars as Unique Probes of the Galactic Center and Outer Halo

Visit	Proposal 11589, Visit 09, scheduling Sat Oct 24 01:27:33 GMT 2009 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 40%; BEFORE 04-NOV-2009:00:00:00									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(9)	SDSSJ101018.83+302028.2	RA: 10 10 18.8290 (152.5784542d) Dec: +30 20 28.22 (30.34117d) Equinox: J2000			V=16.2+/-0.2		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) SDSSJ101018.83+302028.2	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.0098 8,-0.00069; GS ACQ SCENARI O BASE1B3		25 Secs [==>]	[1]
	2		(9) SDSSJ101018.83+302028.2	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 1		550 Secs [==>563.0 Secs]	[1]
	3		(9) SDSSJ101018.83+302028.2	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.1876 4,0.17355		25 Secs [==>]	[1]
	4		(9) SDSSJ101018.83+302028.2	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 3		550 Secs [==>563.0 Secs]	[1]
	5		(9) SDSSJ101018.83+302028.2	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.20739, -0.17217		25 Secs [==>]	[1]
	6		(9) SDSSJ101018.83+302028.2	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 5		550 Secs [==>563.0 Secs]	[1]



Proposal 11589 - Visit 10 - Hypervelocity Stars as Unique Probes of the Galactic Center and Outer Halo

Visit	Proposal 11589, Visit 10, scheduling Sat Oct 24 01:27:33 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 29-NOV-2009:00:00:00									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(10)	SDSSJ110224.37+025002.8	RA: 11 02 24.3740 (165.6015583d) Dec: +02 50 2.77 (2.83410d) Equinox: J2000			V=18.1+/-0.2		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(10) SDSSJ110224.37+025002.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.0098 8,-0.00069		140 Secs	
									[==>]	[1]
	2		(10) SDSSJ110224.37+025002.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 1		440 Secs	
									[==>]	[1]
	3		(10) SDSSJ110224.37+025002.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.1876 4,0.17355		140 Secs	
									[==>]	[1]
	4		(10) SDSSJ110224.37+025002.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 3		440 Secs	
									[==>]	[1]
	5		(10) SDSSJ110224.37+025002.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.20739, -0.17217		140 Secs	
									[==>]	[1]
	6		(10) SDSSJ110224.37+025002.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 5		440 Secs	
									[==>]	[1]



Proposal 11589 - Visit 11 - Hypervelocity Stars as Unique Probes of the Galactic Center and Outer Halo

Visit	Proposal 11589, Visit 11, scheduling Sat Oct 24 01:27:34 GMT 2009									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SCHED 40%; BEFORE 01-JAN-2010:00:00:00									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(11)	SDSSJ142001.94+124404.8	RA: 14 20 1.9390 (215.0080792d) Dec: +12 44 4.77 (12.73466d) Equinox: J2000			V=17.0+/-0.2		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(11) SDSSJ142001.94+124404.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.0098 8,-0.00069; GS ACQ SCENARI O BASE1B3		50 Secs [==>]	[1]
	2		(11) SDSSJ142001.94+124404.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 1		520 Secs [==>526.0 Secs]	[1]
	3		(11) SDSSJ142001.94+124404.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG -0.1876 4,null		50 Secs [==>]	[1]
	4		(11) SDSSJ142001.94+124404.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 3		520 Secs [==>526.0 Secs]	[1]
	5		(11) SDSSJ142001.94+124404.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	POS TARG 0.20739, -0.17217		50 Secs [==>]	[1]
	6		(11) SDSSJ142001.94+124404.8	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F606W	CR-SPLIT=NO	SAME POS AS 5		520 Secs [==>526.0 Secs]	[1]

