



13641 - A Detailed Dynamical And Morphological Study Of $5 < z < 6$ Star, Dust, and Galaxy Formation With ALMA And HST

Cycle: 22, 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) HZ1 ANY	ACS/WFC WFC3/IR	3	25-Jul-2014 21:01:20.0	yes
02	(2) HZ2 ANY	ACS/WFC WFC3/IR	3	25-Jul-2014 21:01:26.0	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>
03	(3) HZ3 ANY	ACS/WFC WFC3/IR	3	25-Jul-2014 21:01:30.0	yes
04	(4) HZ4 ANY	ACS/WFC WFC3/IR	3	25-Jul-2014 21:01:35.0	yes
05	(5) HZ5 ANY	ACS/WFC WFC3/IR	3	25-Jul-2014 21:01:38.0	yes
06	(6) HZ6 ANY	ACS/WFC WFC3/IR	1	25-Jul-2014 21:01:40.0	yes
07	(7) HZ7 ANY	ACS/WFC WFC3/IR	3	25-Jul-2014 21:01:43.0	yes
08	(8) HZ8 ANY	ACS/WFC WFC3/IR	3	25-Jul-2014 21:01:47.0	yes
09	(9) HZ9 ANY	ACS/WFC WFC3/IR	3	25-Jul-2014 21:01:51.0	yes
10	(10) HZ10 ANY	ACS/WFC WFC3/IR	3	25-Jul-2014 21:01:55.0	yes

28 Total Orbits Used

ABSTRACT

We propose WFC3-IR imaging for a unique sample of $10 \sim L^*$ "normal" $5 < z < 6$ galaxies for which direct dust continuum emission and dynamical measurements from the CII 158 μ m line obtained with ALMA. This is the first, and currently only sample of $z \sim 5-6$ "normal" galaxies with direct and robust measurements of their dust content, star formation rates, and dynamics. These objects will provide a representative sample of galaxies in the primordial universe that will be used for a wide range of studies. Furthermore, the dense spectroscopic sampling at $z > 5$ from Keck and VLT along with the wealth of multi-wavelength data in the proposed COSMOS field ensure the physical properties and local environment of these sources is known.

Immediate studies with the proposed WFC3-IR data include: 1) Measuring the rest-frame Ultraviolet (UV) spectral slopes to calibrate the infrared-excess - UV-slope (IRX-beta) relation which is an essential ingredient in estimating star formation rates at $z > 5$ (e.g. Bouwens et al. 2012, Finkelstein

et al. 2012), but is currently determined at $z \sim 0-2$ and expected to strongly evolve at higher redshift (Meurer et al. 1999, Reddy et al. 2010, 2012). 2) Compare quantitative morphologies with the ALMA dynamical measurements, constraining the formation mechanisms of these galaxies. 3) Significantly improve the spectra-energy distribution fits used to estimate stellar masses, which when combined with the dynamical mass estimates and atomic line data will test for biases in the mass estimates.

OBSERVING DESCRIPTION

We are aiming to image 10 $z \sim 5-6$ galaxies that have dust continuum and dynamical measurements from ALMA. The primary goal is to obtain WFC3-IR images in F105W, F125W and F160W to create resolved color maps of the galaxies in the rest frame UV. For Object 6 we are relying on existing observations in F125W and F160W from program 13641 and changed the position of the F105W observations in this program by a few arc-seconds to match those.

We set up the observations to provide 4 dithered images so that Drizzel can better recover the galaxy morphology. A custom pattern was used so that we could optimize the exposure time within each orbit.

The parallel observations with ACS are designed to match similar data in the field obtained by CANDELS and COSMOS. These consist of 1 orbit of F475W, 5/4 orbit of F606W, and 3/4 orbit of F814W to select dropout galaxies. In three cases (Visit 1, 3, and 6) it is possible to constrain the roll angle of the WFC3 observations such that the ACS FOV covers another object of interest. In these cases we took 1 orbit of F850LP which gives us an additional data point for our morphological constraint, an orbit of F814W to get a better Ly-alpha morphology, and the usual F606W which lets us select faint high- z objects at redshifts similar to our targets in the fields.

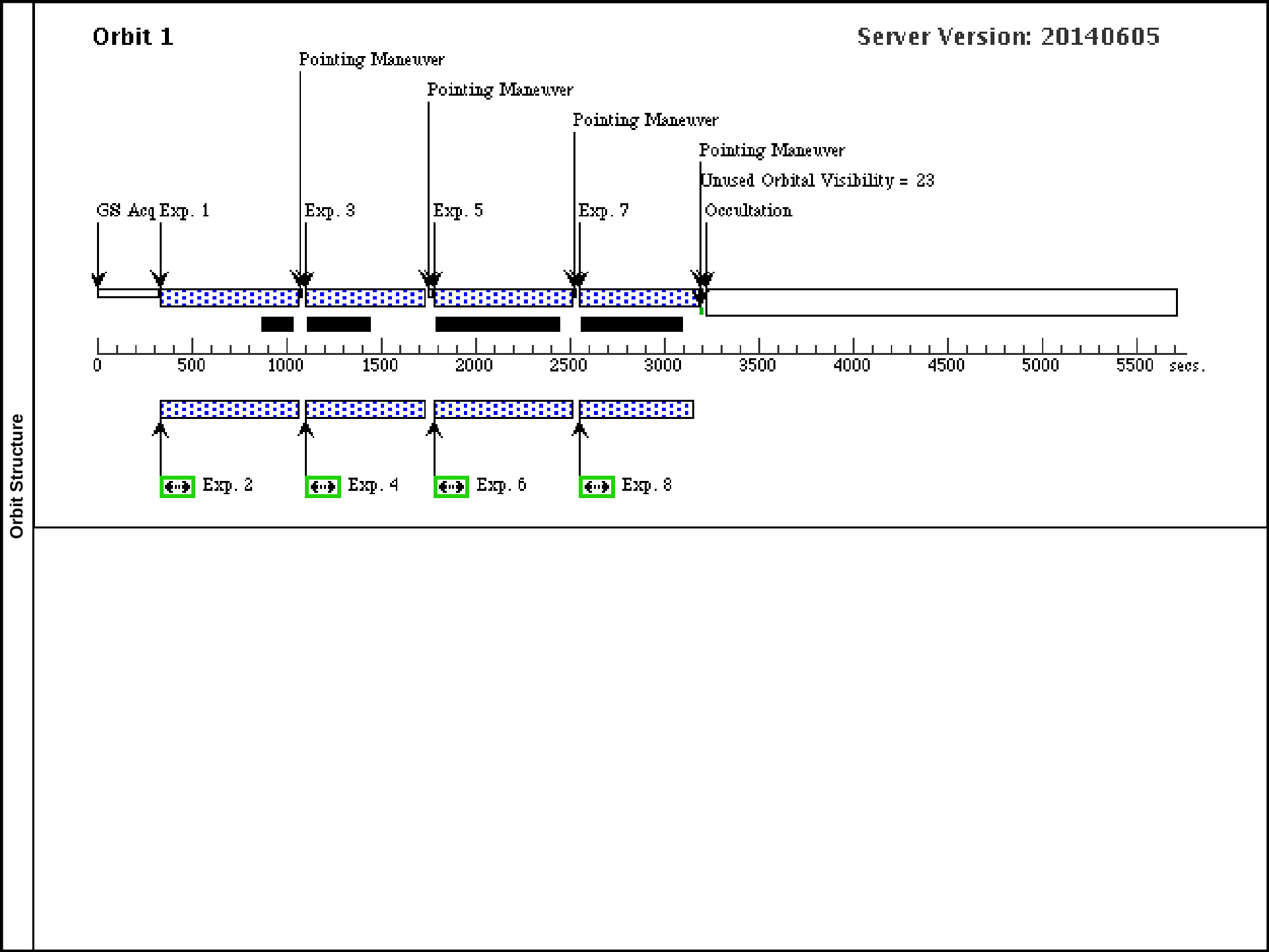
Visit	Proposal 13641, Visit 01					Sat Jul 26 01:01:57 GMT 2014
	Diagnostic Status: No Diagnostics					
Fixed Targets	Scientific Instruments: WFC3/IR, ACS/WFC					
	Special Requirements: ORIENT 53D TO 58 D					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	HZ1	RA: 09 59 53.0000 (149.9708333d) Dec: +02 07 5.00 (2.11806d) Equinox: J2000		V=(?) z=24.6, H=24.2	Reference Frame: ICRS

Proposal 13641 - Visit 01 - A Detailed Dynamical And Morphological Study Of 5<z<6 Star, Dust, and Galaxy Formation With ALMA An...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) HZ1	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 1-2 in Visit 01	702.934552 Secs (702.935 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 1-2 in Visit 01	525 Secs (525 Secs) [==>]	[1]
	3		(1) HZ1	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 3-4 in Visit 01	602.934229 Secs (602.934 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 3-4 in Visit 01	507 Secs (507 Secs) [==>]	[1]
	5		(1) HZ1	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 5-6 in Visit 01	702.934552 Secs (702.935 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 5-6 in Visit 01	607 Secs (607 Secs) [==>]	[1]
	7		(1) HZ1	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 7-8 in Visit 01	602.934229 Secs (602.934 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 7-8 in Visit 01	475 Secs (475 Secs) [==>]	[1]
	9		(1) HZ1	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit 01	702.934552 Secs (702.935 Secs) [==>]	[2]
	10		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 9-10 in Visit 01	552 Secs (552 Secs) [==>]	[2]
	11		(1) HZ1	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 11-12 in Visit 01	602.934229 Secs (602.934 Secs) [==>]	[2]
	12		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 11-12 in Visit 01	507 Secs (507 Secs) [==>]	[2]
	13		(1) HZ1	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 13-14 in Visit 01	702.934552 Secs (702.935 Secs) [==>]	[2]
	14		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 13-14 in Visit 01	607 Secs (607 Secs) [==>]	[2]
	15		(1) HZ1	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 15-16 in Visit 01	702.934552 Secs (702.935 Secs) [==>]	[2]
	16		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 15-16 in Visit 01	641 Secs (641 Secs) [==>]	[2]
	17		(1) HZ1	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 17-18 in Visit 01	702.934552 Secs (702.935 Secs) [==>]	[3]
	18		ANY	ACS/WFC, ACCUM, WFC	F850LP			Prime + Parallel Gro up 17-18 in Visit 01	607 Secs (607 Secs) [==>]	[3]

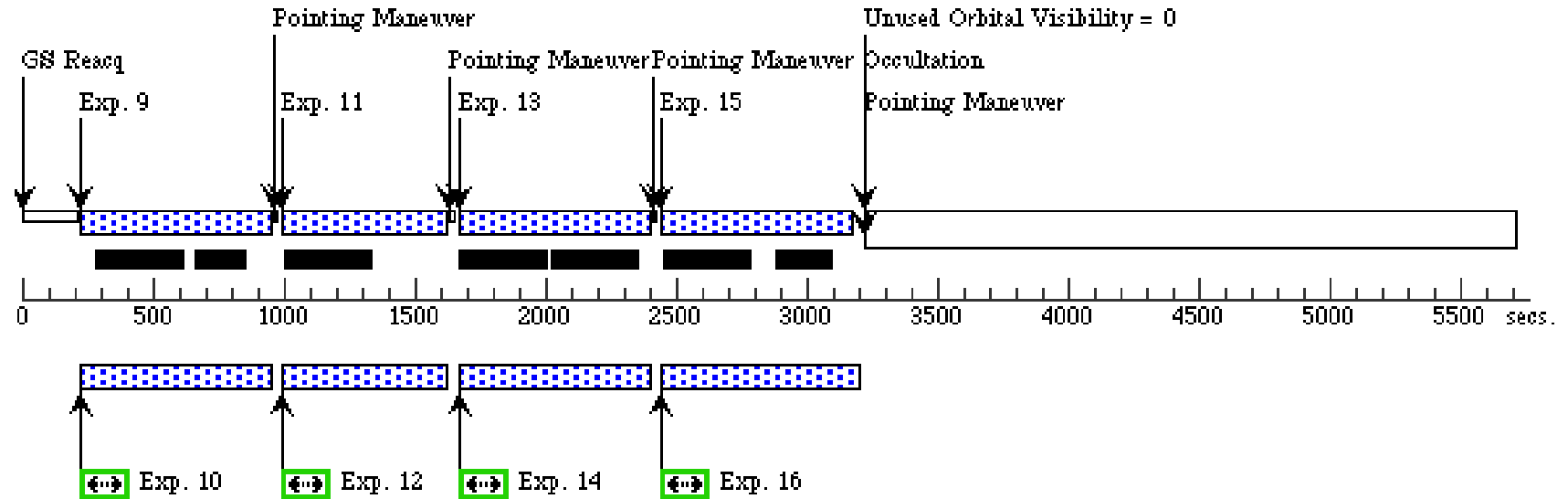
Proposal 13641 - Visit 01 - A Detailed Dynamical And Morphological Study Of $5 < z < 6$ Star, Dust, and Galaxy Formation With ALMA An...

19	(1) HZ1	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 19-20 in Visit 01	602.934229 Secs (602.934 Secs) [==>]	[3]
20	ANY	ACS/WFC, ACCUM, WFC	F850LP			Prime + Parallel Gro up 19-20 in Visit 01	507 Secs (507 Secs) [==>]	[3]
21	(1) HZ1	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 21-22 in Visit 01	702.934552 Secs (702.935 Secs) [==>]	[3]
22	ANY	ACS/WFC, ACCUM, WFC	F850LP			Prime + Parallel Gro up 21-22 in Visit 01	607 Secs (607 Secs) [==>]	[3]
23	(1) HZ1	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 23-24 in Visit 01	702.934552 Secs (702.935 Secs) [==>]	[3]
24	ANY	ACS/WFC, ACCUM, WFC	F850LP			Prime + Parallel Gro up 23-24 in Visit 01	611 Secs (611 Secs) [==>]	[3]



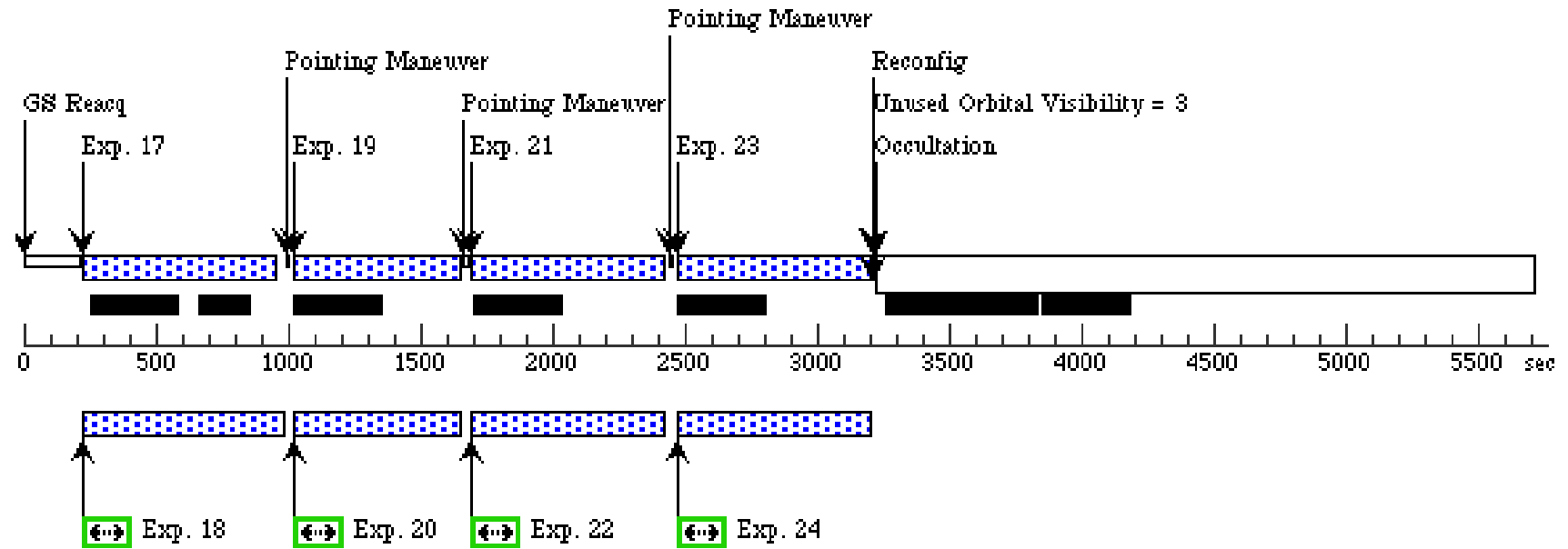
Orbit 2

Server Version: 20140605



Orbit 3

Server Version: 20140605



Proposal 13641 - Visit 02 - A Detailed Dynamical And Morphological Study Of $5 < z < 6$ Star, Dust, and Galaxy Formation With ALMA An...

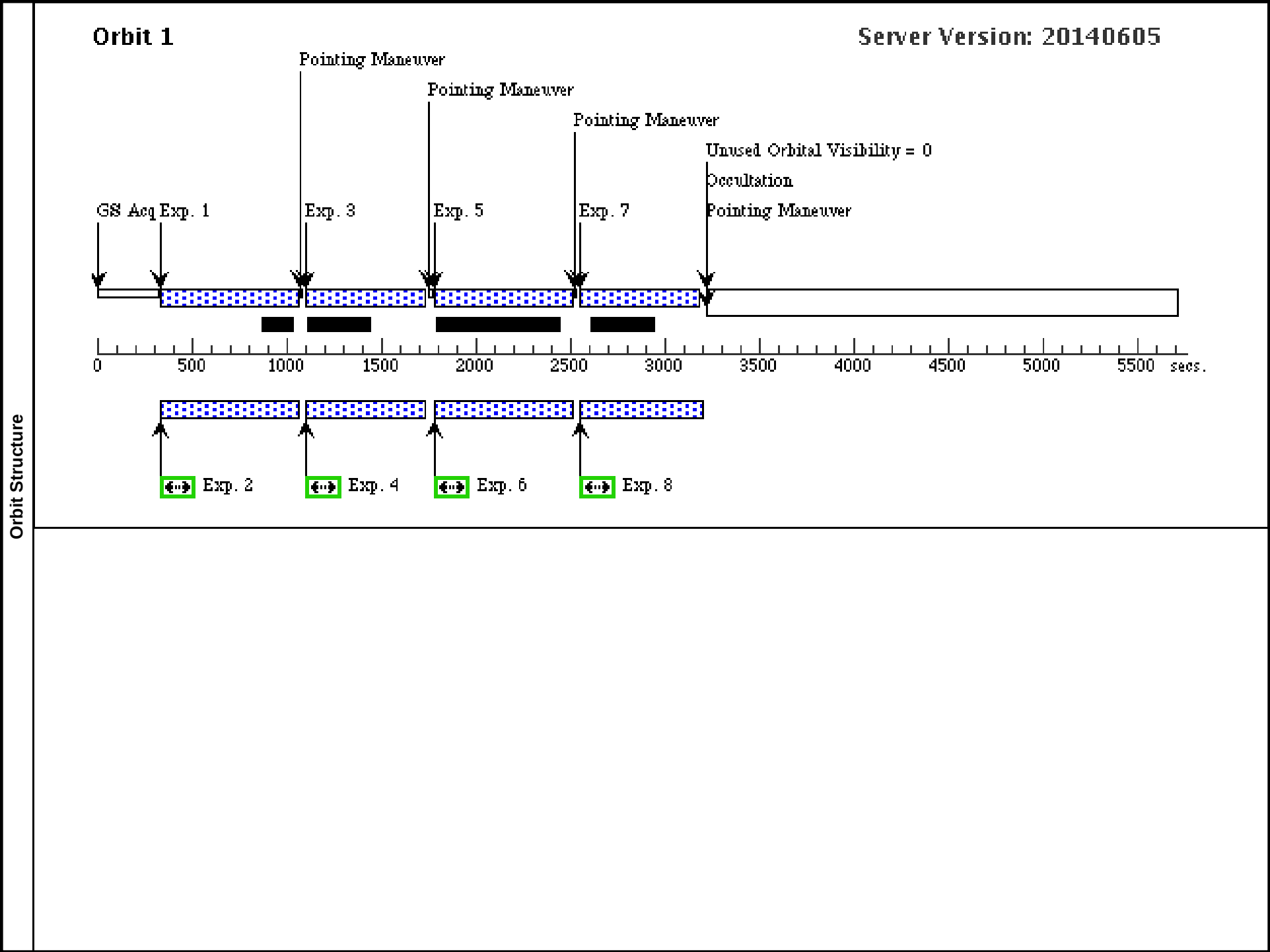
Visit	Proposal 13641, Visit 02 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: (none)					Sat Jul 26 01:01:57 GMT 2014
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	HZ2	RA: 10 02 4.0000 (150.5166667d) Dec: +01 55 44.00 (1.92889d) Equinox: J2000		V=(?) z=24.8 H=24.2	Reference Frame: IRCS

Proposal 13641 - Visit 02 - A Detailed Dynamical And Morphological Study Of 5<z<6 Star, Dust, and Galaxy Formation With ALMA An...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) HZ2	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 1-2 in Visit 02	702.934552 Secs (702.935 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 1-2 in Visit 02	525 Secs (525 Secs) [==>]	[1]
	3		(2) HZ2	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 3-4 in Visit 02	602.934229 Secs (602.934 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 3-4 in Visit 02	507 Secs (507 Secs) [==>]	[1]
	5		(2) HZ2	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 5-6 in Visit 02	702.934552 Secs (702.935 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 5-6 in Visit 02	607 Secs (607 Secs) [==>]	[1]
	7		(2) HZ2	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 7-8 in Visit 02	602.934229 Secs (602.934 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 7-8 in Visit 02	475 Secs (475 Secs) [==>]	[1]
	9		(2) HZ2	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit 02	702.934552 Secs (702.935 Secs) [==>]	[2]
	10		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 9-10 in Visit 02	607 Secs (607 Secs) [==>]	[2]
	11		(2) HZ2	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 11-12 in Visit 02	602.934229 Secs (602.934 Secs) [==>]	[2]
	12		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 11-12 in Visit 02	507 Secs (507 Secs) [==>]	[2]
	13		(2) HZ2	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 13-14 in Visit 02	702.934552 Secs (702.935 Secs) [==>]	[2]
	14		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 13-14 in Visit 02	607 Secs (607 Secs) [==>]	[2]
	15		(2) HZ2	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 15-16 in Visit 02	702.934552 Secs (702.935 Secs) [==>]	[2]
	16		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 15-16 in Visit 02	641 Secs (641 Secs) [==>]	[2]
	17		(2) HZ2	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 17-18 in Visit 02	702.934552 Secs (702.935 Secs) [==>]	[3]
	18		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 17-18 in Visit 02	607 Secs (607 Secs) [==>]	[3]

Proposal 13641 - Visit 02 - A Detailed Dynamical And Morphological Study Of $5 < z < 6$ Star, Dust, and Galaxy Formation With ALMA An...

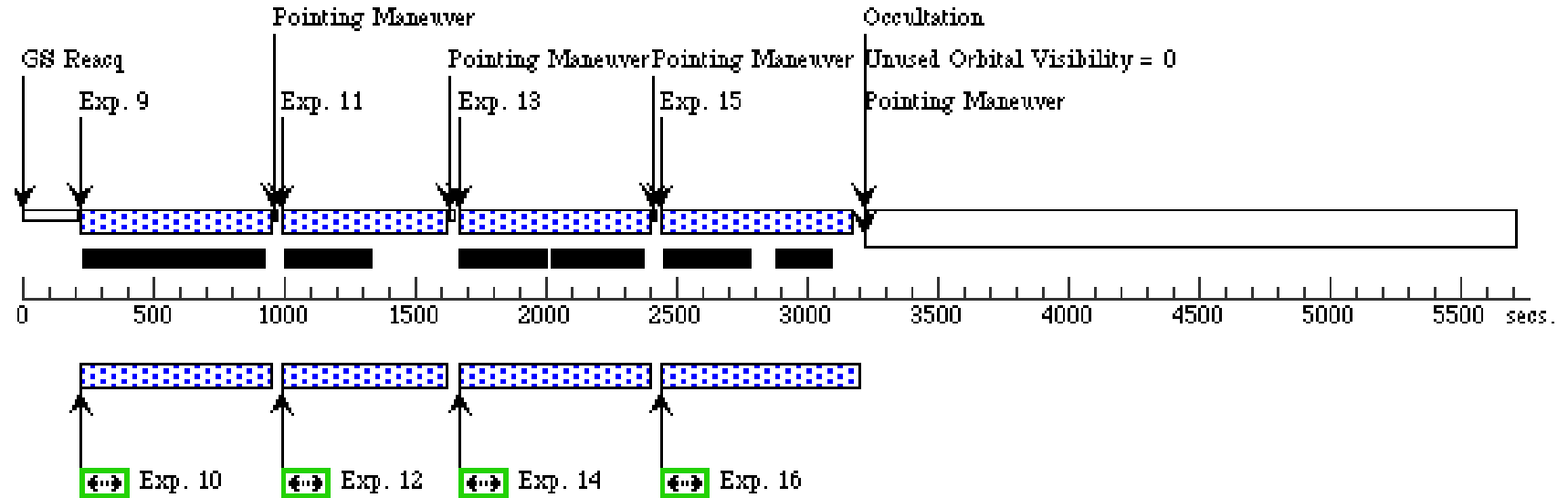
19	(2) HZ2	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 19-20 in Visit 02	602.934229 Secs (602.934 Secs) [==>]	[3]
20	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 19-20 in Visit 02	507 Secs (507 Secs) [==>]	[3]
21	(2) HZ2	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 21-22 in Visit 02	702.934552 Secs (702.935 Secs) [==>]	[3]
22	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 21-22 in Visit 02	607 Secs (607 Secs) [==>]	[3]
23	(2) HZ2	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 23-24 in Visit 02	702.934552 Secs (702.935 Secs) [==>]	[3]
24	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 23-24 in Visit 02	611 Secs (611 Secs) [==>]	[3]



12

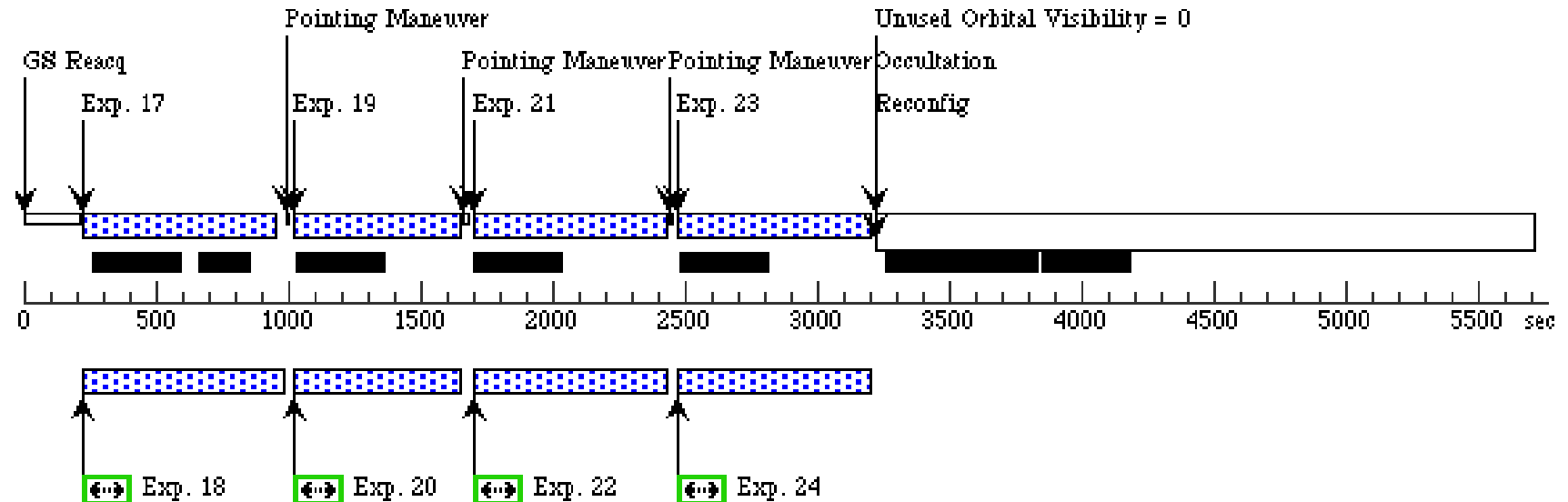
Orbit 2

Server Version: 20140605



Orbit 3

Server Version: 20140605



Visit	Proposal 13641, Visit 03					Sat Jul 26 01:01:57 GMT 2014
	Diagnostic Status: No Diagnostics					
Fixed Targets	Scientific Instruments: WFC3/IR, ACS/WFC					
	Special Requirements: ORIENT 70D TO 72 D					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
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Proposal 13641 - Visit 03 - A Detailed Dynamical And Morphological Study Of 5<z<6 Star, Dust, and Galaxy Formation With ALMA An...

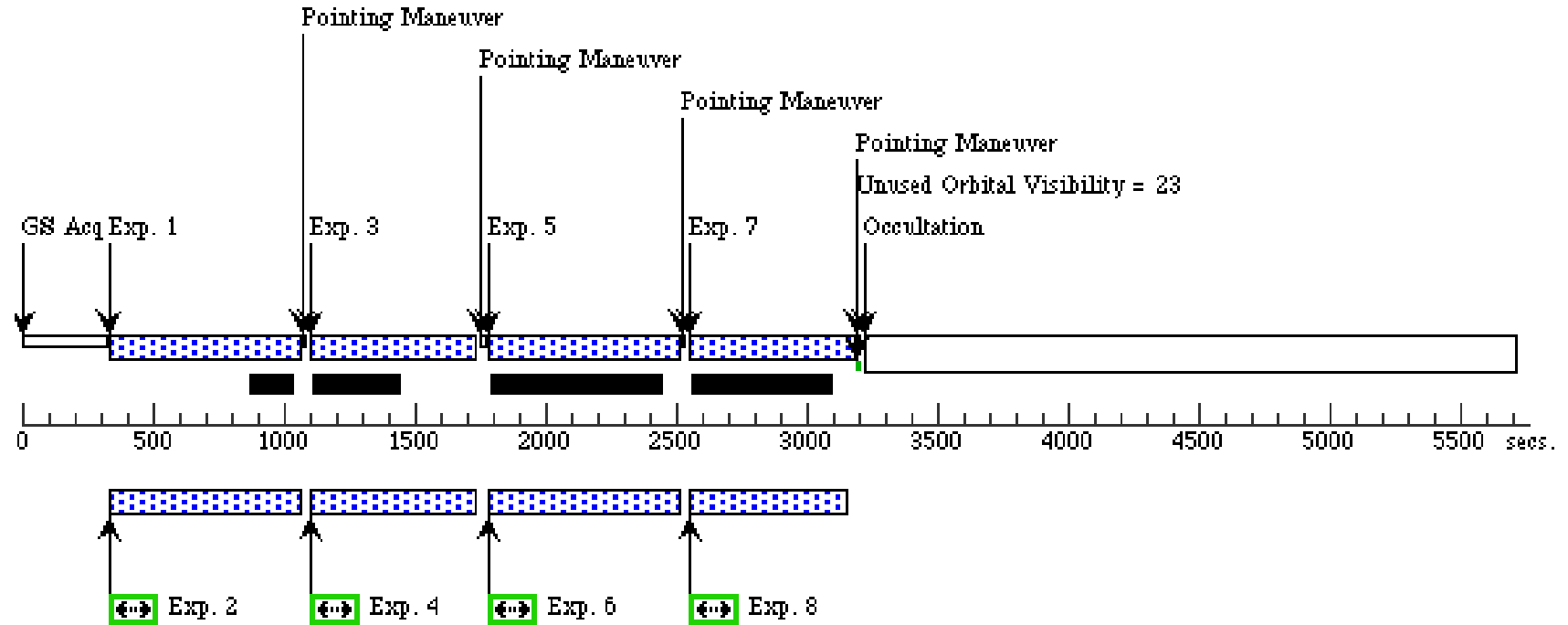
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) HZ3	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 1-2 in Visit 03	702.934552 Secs (702.935 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 1-2 in Visit 03	525 Secs (525 Secs) [==>]	[1]
	3		(3) HZ3	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 3-4 in Visit 03	602.934229 Secs (602.934 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 3-4 in Visit 03	507 Secs (507 Secs) [==>]	[1]
	5		(3) HZ3	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 5-6 in Visit 03	702.934552 Secs (702.935 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 5-6 in Visit 03	607 Secs (607 Secs) [==>]	[1]
	7		(3) HZ3	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 7-8 in Visit 03	602.934229 Secs (602.934 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 7-8 in Visit 03	475 Secs (475 Secs) [==>]	[1]
	9		(3) HZ3	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit 03	702.934552 Secs (702.935 Secs) [==>]	[2]
	10		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 9-10 in Visit 03	552 Secs (552 Secs) [==>]	[2]
	11		(3) HZ3	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 11-12 in Visit 03	602.934229 Secs (602.934 Secs) [==>]	[2]
	12		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 11-12 in Visit 03	507 Secs (507 Secs) [==>]	[2]
	13		(3) HZ3	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 13-14 in Visit 03	702.934552 Secs (702.935 Secs) [==>]	[2]
	14		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 13-14 in Visit 03	607 Secs (607 Secs) [==>]	[2]
	15		(3) HZ3	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 15-16 in Visit 03	702.934552 Secs (702.935 Secs) [==>]	[2]
	16		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 15-16 in Visit 03	641 Secs (641 Secs) [==>]	[2]
	17		(3) HZ3	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 17-18 in Visit 03	702.934552 Secs (702.935 Secs) [==>]	[3]
	18		ANY	ACS/WFC, ACCUM, WFC	F850LP			Prime + Parallel Gro up 17-18 in Visit 03	607 Secs (607 Secs) [==>]	[3]

Proposal 13641 - Visit 03 - A Detailed Dynamical And Morphological Study Of $5 < z < 6$ Star, Dust, and Galaxy Formation With ALMA An...

19	(3) HZ3	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Group 19-20 in Visit 03	602.934229 Secs (602.934 Secs) [==>]	[3]
20	ANY	ACS/WFC, ACCUM, WFC	F850LP			Prime + Parallel Group 19-20 in Visit 03	507 Secs (507 Secs) [==>]	[3]
21	(3) HZ3	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Group 21-22 in Visit 03	702.934552 Secs (702.935 Secs) [==>]	[3]
22	ANY	ACS/WFC, ACCUM, WFC	F850LP			Prime + Parallel Group 21-22 in Visit 03	607 Secs (607 Secs) [==>]	[3]
23	(3) HZ3	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Group 23-24 in Visit 03	702.934552 Secs (702.935 Secs) [==>]	[3]
24	ANY	ACS/WFC, ACCUM, WFC	F850LP			Prime + Parallel Group 23-24 in Visit 03	611 Secs (611 Secs) [==>]	[3]

Orbit 1

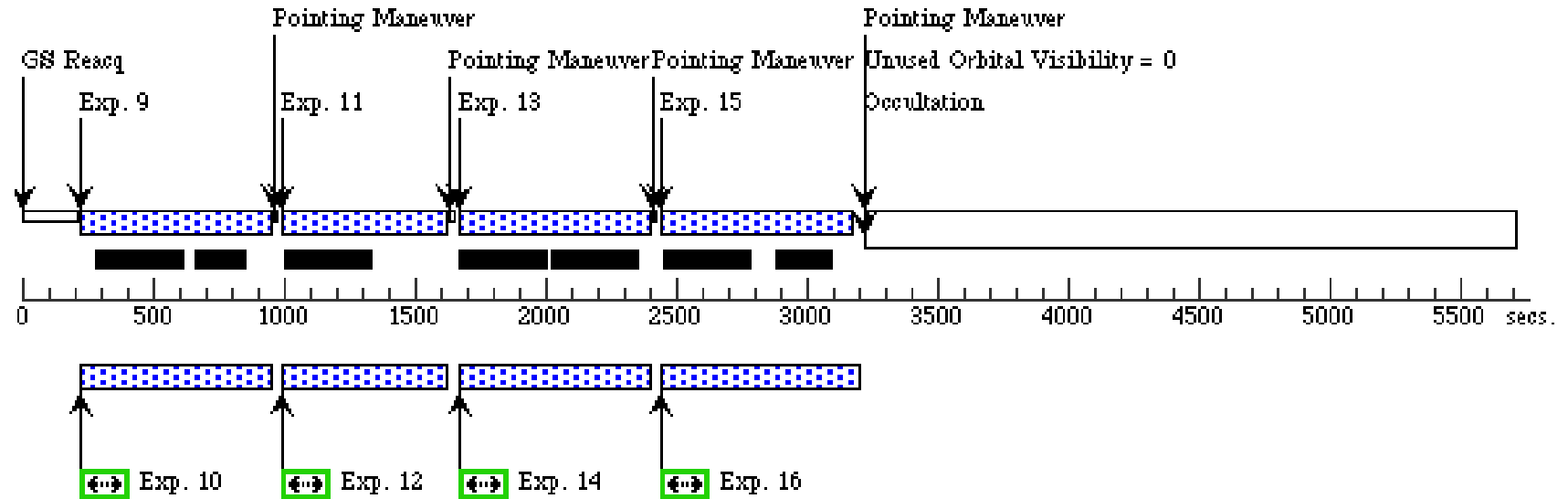
Server Version: 20140605



Orbit Structure

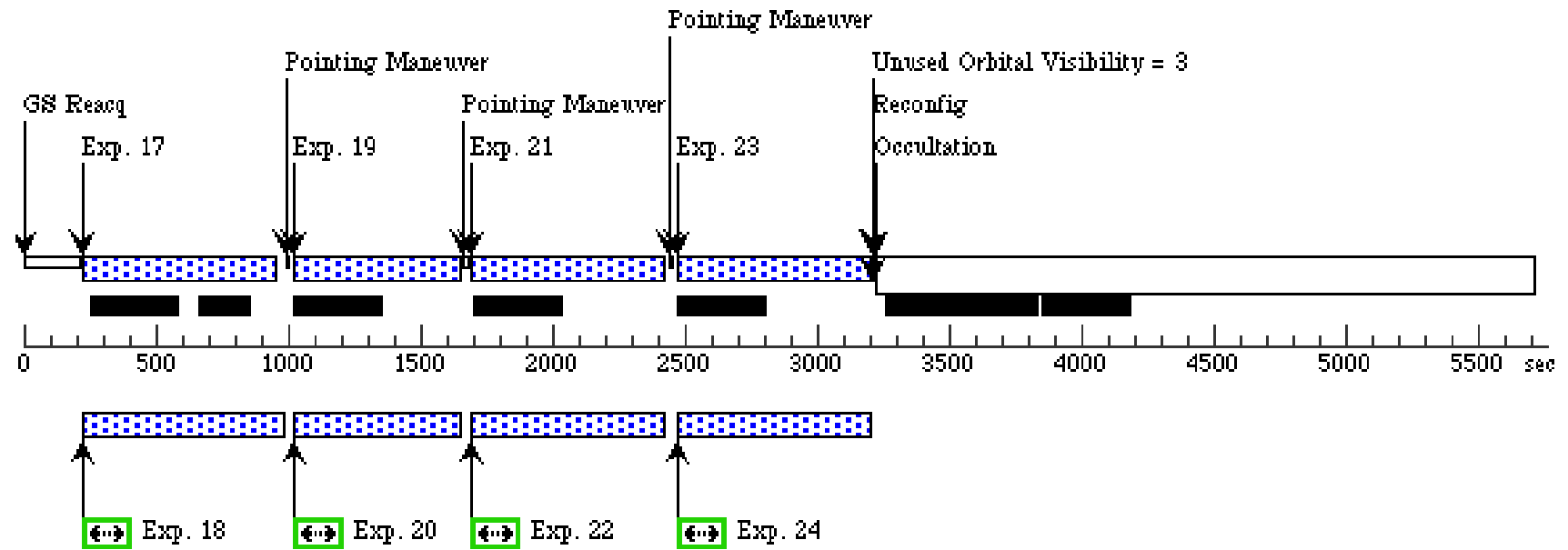
Orbit 2

Server Version: 20140605



Orbit 3

Server Version: 20140605



Proposal 13641 - Visit 04 - A Detailed Dynamical And Morphological Study Of $5 < z < 6$ Star, Dust, and Galaxy Formation With ALMA An...

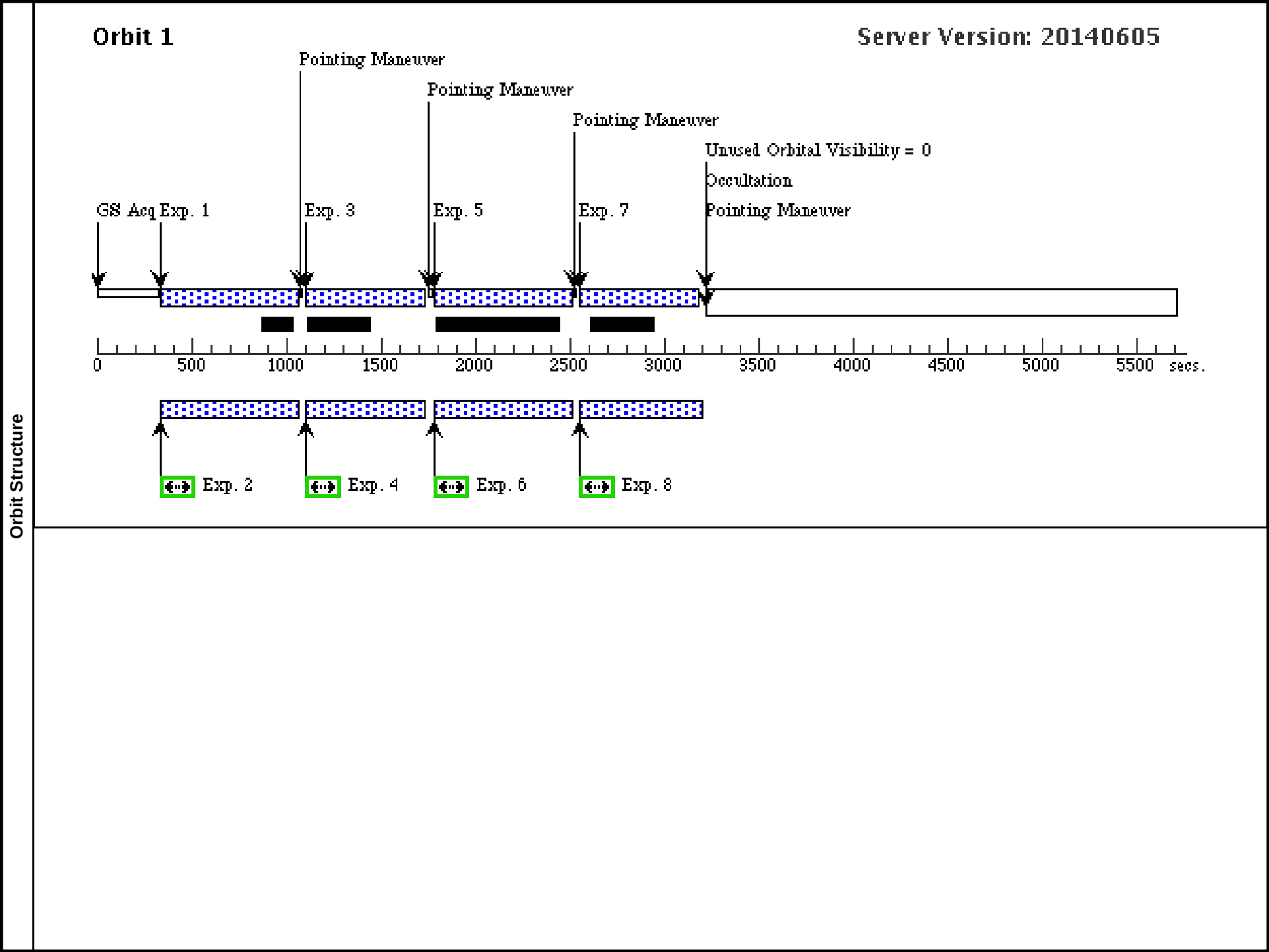
Visit	Proposal 13641, Visit 04 Sat Jul 26 01:01:58 GMT 2014				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: (none)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(4)	HZ4	RA: 09 58 28.5200 (149.6188333d) Dec: +02 03 6.74 (2.05187d) Equinox: J2000		V=(?) z=24.5 H=23.8
					Miscellaneous
					Reference Frame: IRCS

Proposal 13641 - Visit 04 - A Detailed Dynamical And Morphological Study Of 5<z<6 Star, Dust, and Galaxy Formation With ALMA An...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) HZ4	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 1-2 in Visit 04	702.934552 Secs (702.935 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 1-2 in Visit 04	525 Secs (525 Secs) [==>]	[1]
	3		(4) HZ4	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 3-4 in Visit 04	602.934229 Secs (602.934 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 3-4 in Visit 04	507 Secs (507 Secs) [==>]	[1]
	5		(4) HZ4	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 5-6 in Visit 04	702.934552 Secs (702.935 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 5-6 in Visit 04	607 Secs (607 Secs) [==>]	[1]
	7		(4) HZ4	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 7-8 in Visit 04	602.934229 Secs (602.934 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 7-8 in Visit 04	475 Secs (475 Secs) [==>]	[1]
	9		(4) HZ4	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit 04	702.934552 Secs (702.935 Secs) [==>]	[2]
	10		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 9-10 in Visit 04	607 Secs (607 Secs) [==>]	[2]
	11		(4) HZ4	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 11-12 in Visit 04	602.934229 Secs (602.934 Secs) [==>]	[2]
	12		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 11-12 in Visit 04	507 Secs (507 Secs) [==>]	[2]
	13		(4) HZ4	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 13-14 in Visit 04	702.934552 Secs (702.935 Secs) [==>]	[2]
	14		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 13-14 in Visit 04	607 Secs (607 Secs) [==>]	[2]
	15		(4) HZ4	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 15-16 in Visit 04	702.934552 Secs (702.935 Secs) [==>]	[2]
	16		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 15-16 in Visit 04	641 Secs (641 Secs) [==>]	[2]
	17		(4) HZ4	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 17-18 in Visit 04	702.934552 Secs (702.935 Secs) [==>]	[3]
	18		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 17-18 in Visit 04	607 Secs (607 Secs) [==>]	[3]

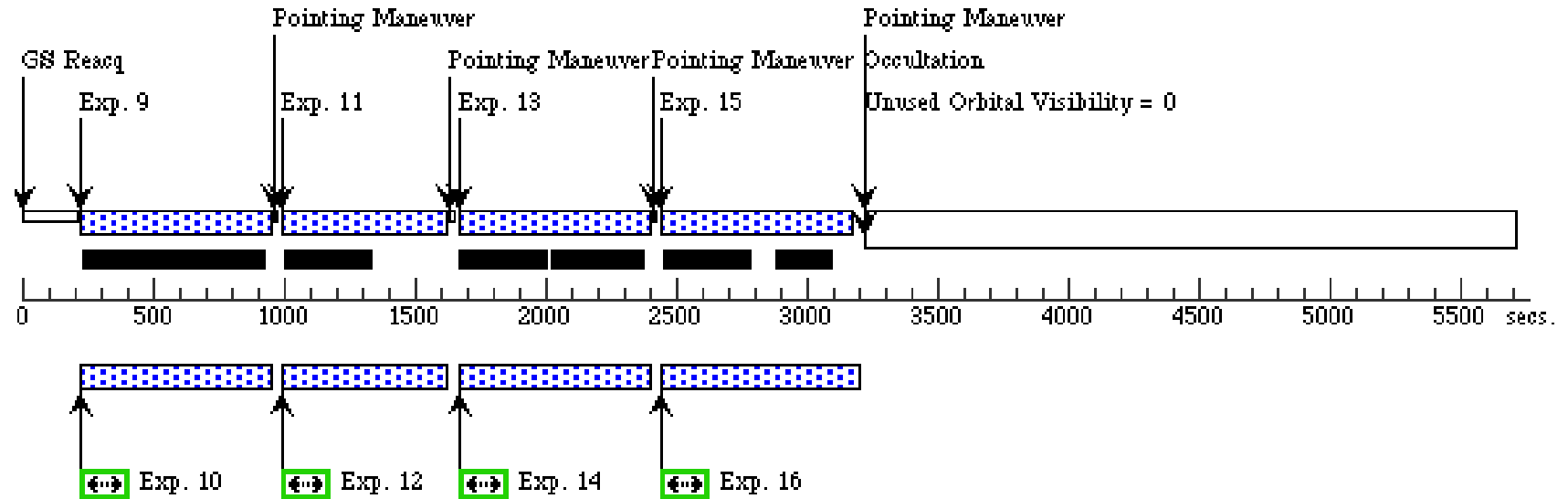
Proposal 13641 - Visit 04 - A Detailed Dynamical And Morphological Study Of $5 < z < 6$ Star, Dust, and Galaxy Formation With ALMA An...

19	(4) HZ4	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 19-20 in Visit 04	602.934229 Secs (602.934 Secs) [==>]	[3]
20	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 19-20 in Visit 04	507 Secs (507 Secs) [==>]	[3]
21	(4) HZ4	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 21-22 in Visit 04	702.934552 Secs (702.935 Secs) [==>]	[3]
22	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 21-22 in Visit 04	607 Secs (607 Secs) [==>]	[3]
23	(4) HZ4	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 23-24 in Visit 04	702.934552 Secs (702.935 Secs) [==>]	[3]
24	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 23-24 in Visit 04	611 Secs (611 Secs) [==>]	[3]



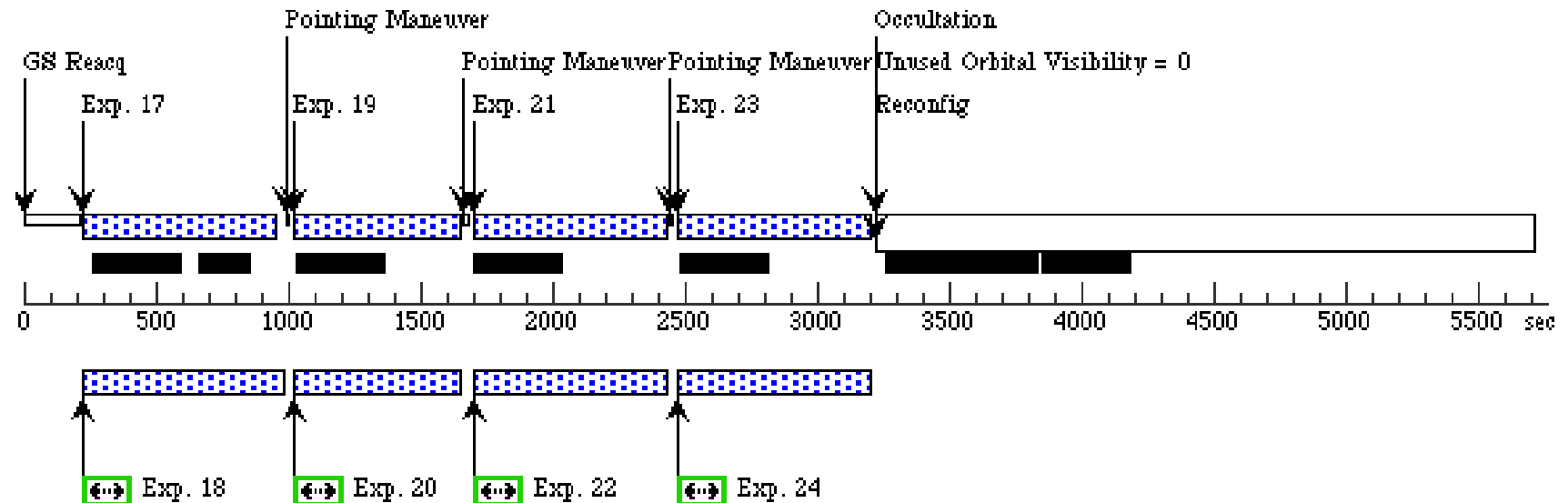
Orbit 2

Server Version: 20140605



Orbit 3

Server Version: 20140605



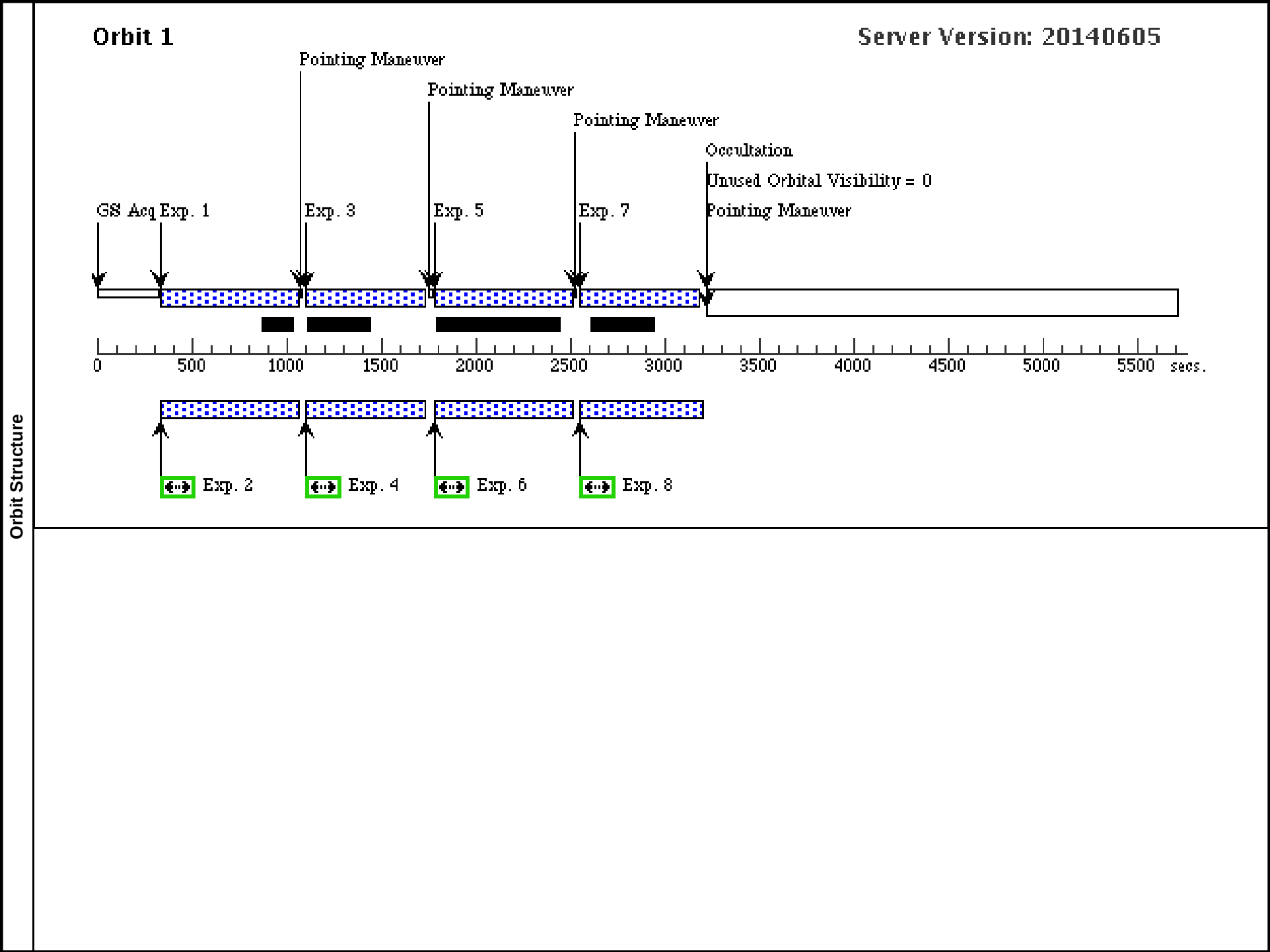
Visit	Proposal 13641, Visit 05					Sat Jul 26 01:01:58 GMT 2014
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/IR, ACS/WFC					
	Special Requirements: ORIENT 57D TO 58 D					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	HZ5	RA: 10 00 51.6000 (150.2150000d) Dec: +02 34 57.60 (2.58267d) Equinox: J2000		V=(?) z=23.8 H=22.9	Reference Frame: IRCS

Proposal 13641 - Visit 05 - A Detailed Dynamical And Morphological Study Of 5<z<6 Star, Dust, and Galaxy Formation With ALMA An...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) HZ5	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 1-2 in Visit 05	702.934552 Secs (702.935 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 1-2 in Visit 05	525 Secs (525 Secs) [==>]	[1]
	3		(5) HZ5	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 3-4 in Visit 05	602.934229 Secs (602.934 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 3-4 in Visit 05	507 Secs (507 Secs) [==>]	[1]
	5		(5) HZ5	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 5-6 in Visit 05	702.934552 Secs (702.935 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 5-6 in Visit 05	607 Secs (607 Secs) [==>]	[1]
	7		(5) HZ5	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 7-8 in Visit 05	602.934229 Secs (602.934 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 7-8 in Visit 05	475 Secs (475 Secs) [==>]	[1]
	9		(5) HZ5	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit 05	702.934552 Secs (702.935 Secs) [==>]	[2]
	10		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 9-10 in Visit 05	607 Secs (607 Secs) [==>]	[2]
	11		(5) HZ5	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 11-12 in Visit 05	602.934229 Secs (602.934 Secs) [==>]	[2]
	12		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 11-12 in Visit 05	507 Secs (507 Secs) [==>]	[2]
	13		(5) HZ5	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 13-14 in Visit 05	702.934552 Secs (702.935 Secs) [==>]	[2]
	14		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 13-14 in Visit 05	607 Secs (607 Secs) [==>]	[2]
	15		(5) HZ5	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 15-16 in Visit 05	702.934552 Secs (702.935 Secs) [==>]	[2]
	16		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 15-16 in Visit 05	641 Secs (641 Secs) [==>]	[2]
	17		(5) HZ5	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 17-18 in Visit 05	702.934552 Secs (702.935 Secs) [==>]	[3]
	18		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 17-18 in Visit 05	607 Secs (607 Secs) [==>]	[3]

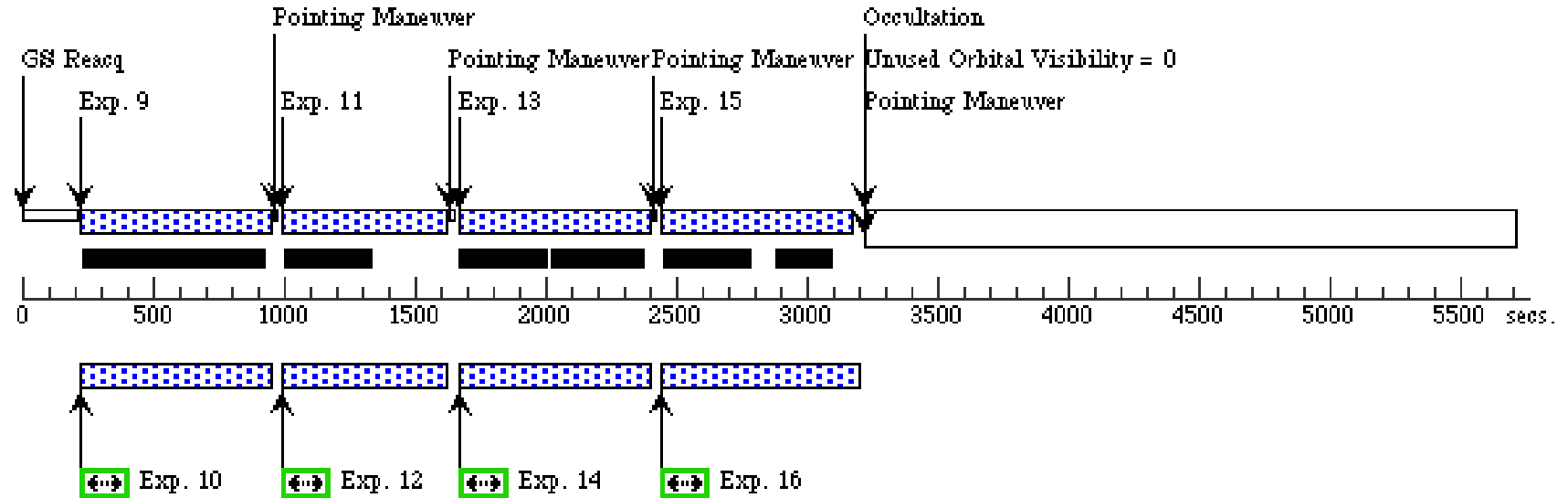
Proposal 13641 - Visit 05 - A Detailed Dynamical And Morphological Study Of $5 < z < 6$ Star, Dust, and Galaxy Formation With ALMA An...

19	(5) HZ5	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 19-20 in Visit 05	602.934229 Secs (602.934 Secs) [==>]	[3]
20	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 19-20 in Visit 05	507 Secs (507 Secs) [==>]	[3]
21	(5) HZ5	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 21-22 in Visit 05	702.934552 Secs (702.935 Secs) [==>]	[3]
22	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 21-22 in Visit 05	607 Secs (607 Secs) [==>]	[3]
23	(5) HZ5	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 23-24 in Visit 05	702.934552 Secs (702.935 Secs) [==>]	[3]
24	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 23-24 in Visit 05	611 Secs (611 Secs) [==>]	[3]



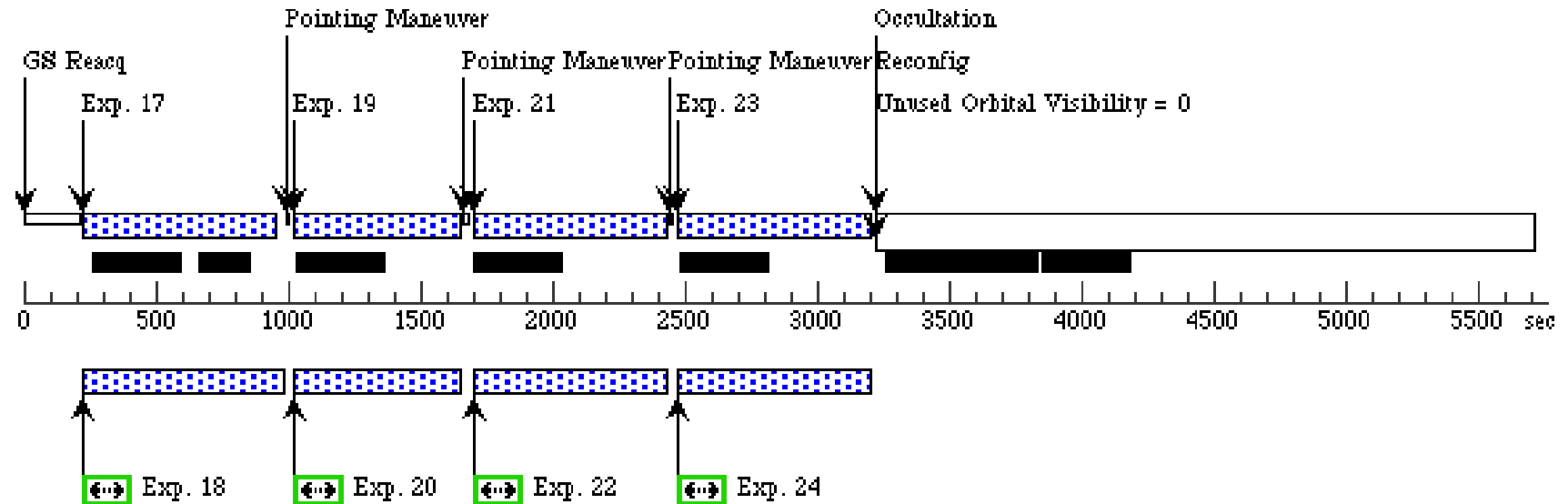
Orbit 2

Server Version: 20140605



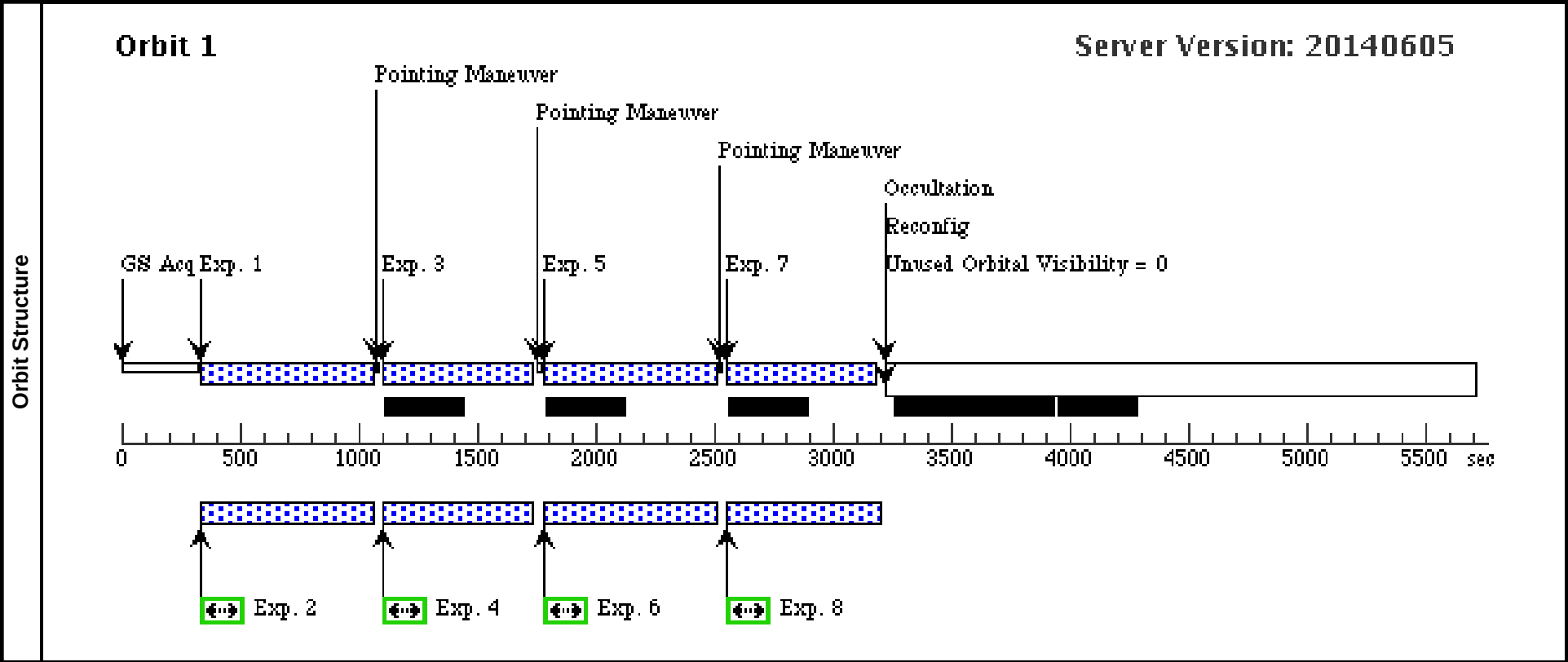
Orbit 3

Server Version: 20140605



Proposal 13641 - Visit 06 - A Detailed Dynamical And Morphological Study Of 5<z<6 Star, Dust, and Galaxy Formation With ALMA An...

Visit	Proposal 13641, Visit 06								Sat Jul 26 01:01:58 GMT 2014	
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR, ACS/WFC									
	Special Requirements: ORIENT 71D TO 73 D									
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(6)	HZ6	RA: 10 00 20.3000 (150.0845833d)				V=(?)		Reference Frame: IRCS	
			Dec: +02 35 20.50 (2.58903d)				z=25.4 H=25.1			
			Equinox: J2000							
	Comments: Original Co-ordinates were 10:00:21.51, 2:35:10.90 changed to 10:00:20.3 , 2:35:20.5 to match previous deep observations from program 13384 in F125W and F160W and to obtain a second candiate in the field of view. Note this is not an exact match to the 13384 co-orinates of 10:00:20.7 , 2:35:20.5 due to the slightly different dither patern.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(6) HZ6	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8;	POS TARG 0,0	Prime + Parallel Gro up 1-2 in Visit 06	702.934552 Secs (702.935 Secs)	
						SAMP-SEQ=SPAR S100			[==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F850LP			Prime + Parallel Gro up 1-2 in Visit 06	525 Secs (525 Secs)	
									[==>]	[1]
	3		(6) HZ6	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7;	POS TARG 0,6	Prime + Parallel Gro up 3-4 in Visit 06	602.934229 Secs (602.934 Secs)	
						SAMP-SEQ=SPAR S100			[==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F850LP			Prime + Parallel Gro up 3-4 in Visit 06	507 Secs (507 Secs)	
									[==>]	[1]
	5		(6) HZ6	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8;	POS TARG -3,-5.2	Prime + Parallel Gro up 5-6 in Visit 06	702.934552 Secs (702.935 Secs)	
						SAMP-SEQ=SPAR S100			[==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F850LP			Prime + Parallel Gro up 5-6 in Visit 06	607 Secs (607 Secs)	
									[==>]	[1]
	7		(6) HZ6	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7;	POS TARG 3,-5.2	Prime + Parallel Gro up 7-8 in Visit 06	602.934229 Secs (602.934 Secs)	
						SAMP-SEQ=SPAR S100			[==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F850LP			Prime + Parallel Gro up 7-8 in Visit 06	530 Secs (530 Secs)	
									[==>]	[1]



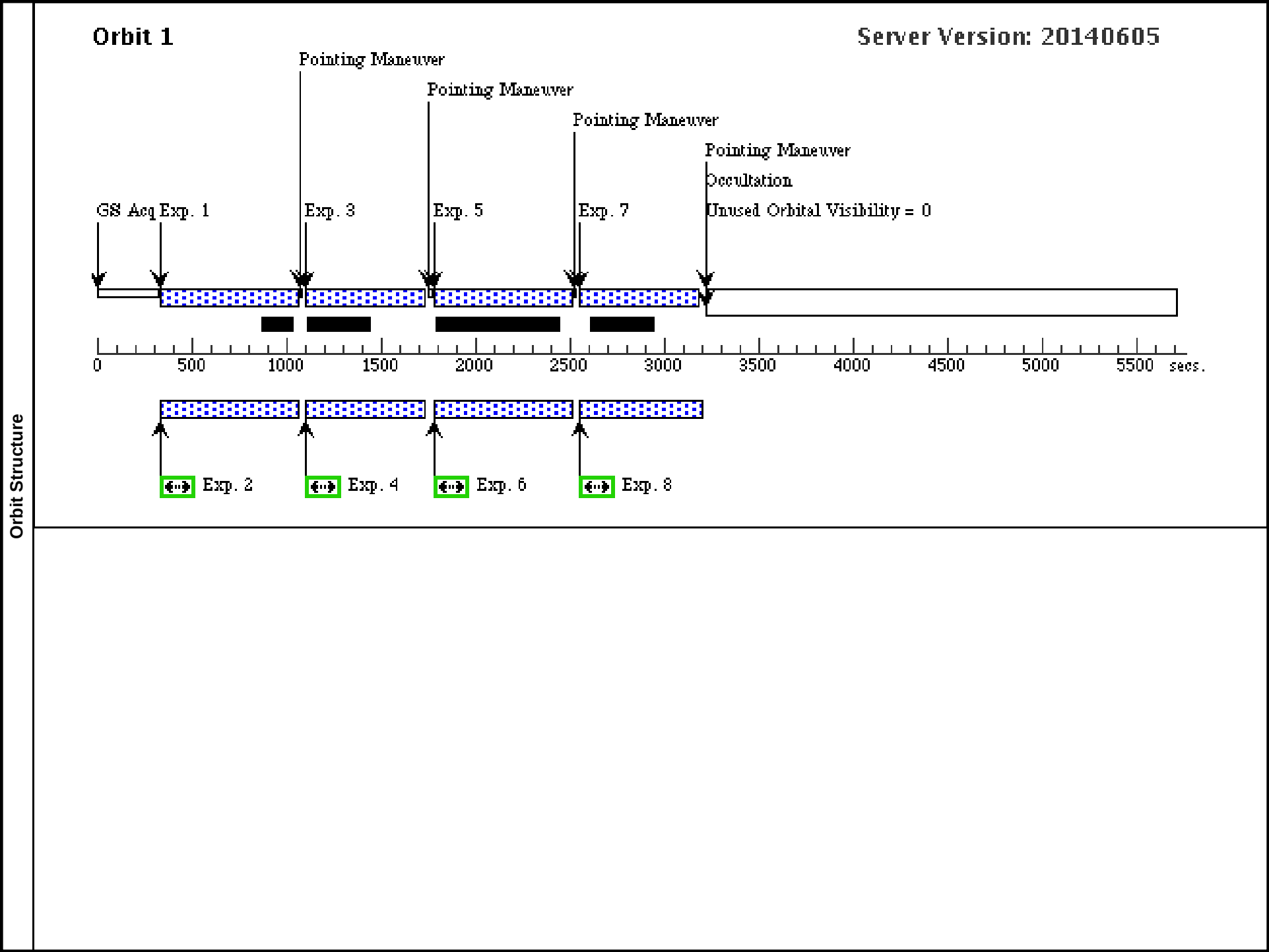
Visit	Proposal 13641, Visit 07					Sat Jul 26 01:01:58 GMT 2014
	Diagnostic Status: No Diagnostics					
Fixed Targets	Scientific Instruments: WFC3/IR, ACS/WFC					
	Special Requirements: (none)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	HZ7	RA: 09 59 30.5000 (149.8770833d) Dec: +02 08 2.80 (2.13411d) Equinox: J2000		V=(?) z=24.6 H=24.1	Reference Frame: IRCS

Proposal 13641 - Visit 07 - A Detailed Dynamical And Morphological Study Of 5<z<6 Star, Dust, and Galaxy Formation With ALMA An...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) HZ7	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 1-2 in Visit 07	702.934552 Secs (702.935 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 1-2 in Visit 07	525 Secs (525 Secs) [==>]	[1]
	3		(7) HZ7	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 3-4 in Visit 07	602.934229 Secs (602.934 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 3-4 in Visit 07	507 Secs (507 Secs) [==>]	[1]
	5		(7) HZ7	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 5-6 in Visit 07	702.934552 Secs (702.935 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 5-6 in Visit 07	607 Secs (607 Secs) [==>]	[1]
	7		(7) HZ7	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 7-8 in Visit 07	602.934229 Secs (602.934 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 7-8 in Visit 07	475 Secs (475 Secs) [==>]	[1]
	9		(7) HZ7	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit 07	702.934552 Secs (702.935 Secs) [==>]	[2]
	10		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 9-10 in Visit 07	607 Secs (607 Secs) [==>]	[2]
	11		(7) HZ7	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 11-12 in Visit 07	602.934229 Secs (602.934 Secs) [==>]	[2]
	12		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 11-12 in Visit 07	507 Secs (507 Secs) [==>]	[2]
	13		(7) HZ7	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 13-14 in Visit 07	702.934552 Secs (702.935 Secs) [==>]	[2]
	14		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 13-14 in Visit 07	607 Secs (607 Secs) [==>]	[2]
	15		(7) HZ7	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 15-16 in Visit 07	702.934552 Secs (702.935 Secs) [==>]	[2]
	16		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 15-16 in Visit 07	641 Secs (641 Secs) [==>]	[2]
	17		(7) HZ7	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 17-18 in Visit 07	702.934552 Secs (702.935 Secs) [==>]	[3]
	18		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 17-18 in Visit 07	607 Secs (607 Secs) [==>]	[3]

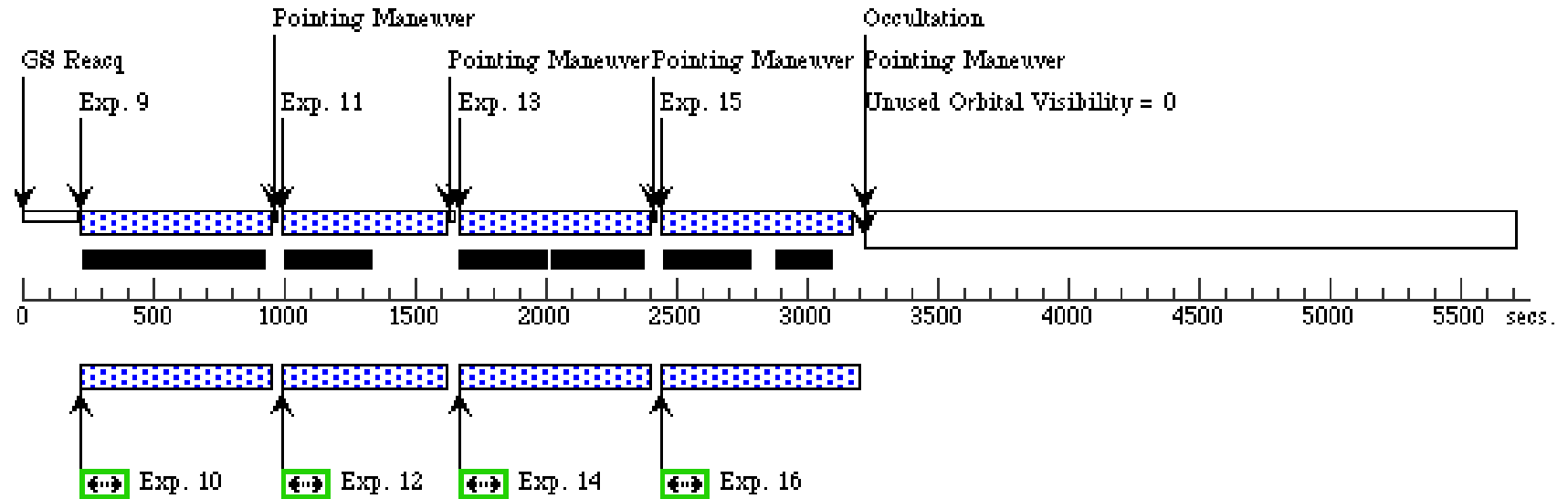
Proposal 13641 - Visit 07 - A Detailed Dynamical And Morphological Study Of $5 < z < 6$ Star, Dust, and Galaxy Formation With ALMA An...

19	(7) HZ7	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 19-20 in Visit 07	602.934229 Secs (602.934 Secs) [==>]	[3]
20	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 19-20 in Visit 07	507 Secs (507 Secs) [==>]	[3]
21	(7) HZ7	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 21-22 in Visit 07	702.934552 Secs (702.935 Secs) [==>]	[3]
22	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 21-22 in Visit 07	607 Secs (607 Secs) [==>]	[3]
23	(7) HZ7	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 23-24 in Visit 07	702.934552 Secs (702.935 Secs) [==>]	[3]
24	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 23-24 in Visit 07	611 Secs (611 Secs) [==>]	[3]



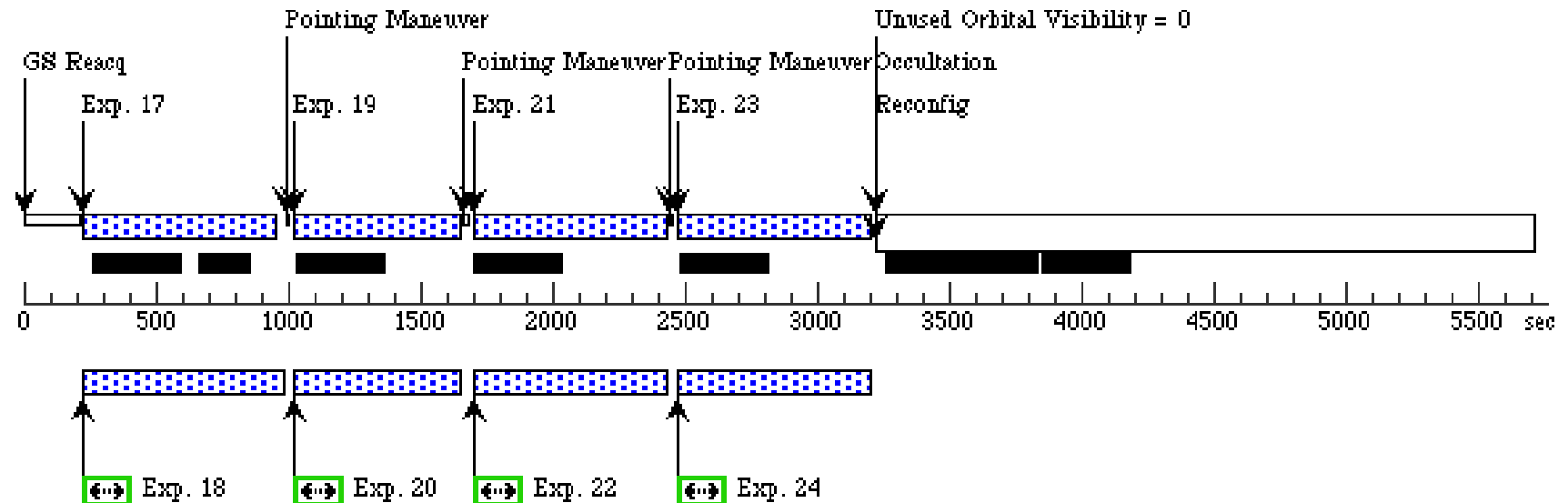
Orbit 2

Server Version: 20140605



Orbit 3

Server Version: 20140605



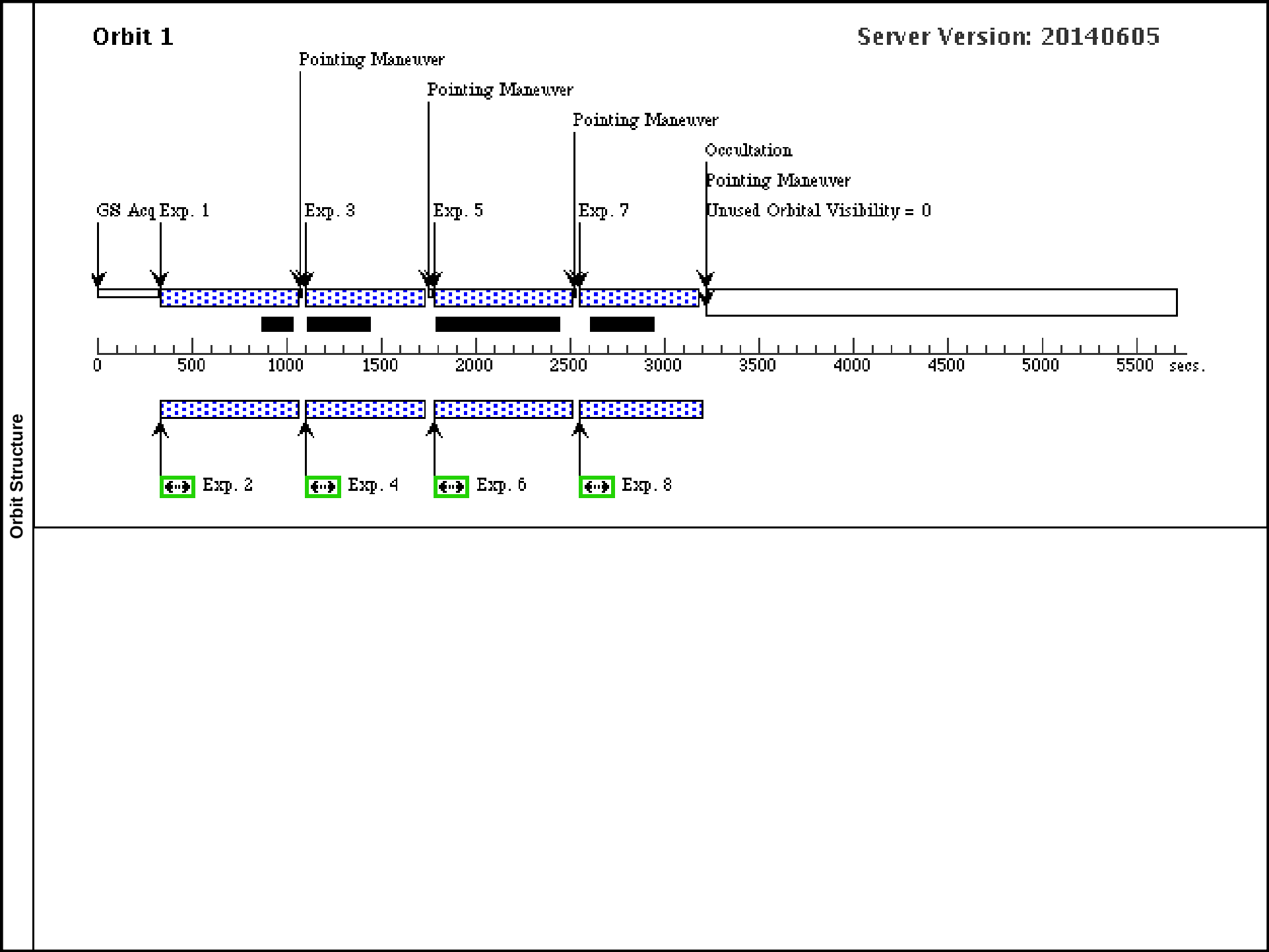
Visit	Proposal 13641, Visit 08					Sat Jul 26 01:01:58 GMT 2014
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/IR, ACS/WFC					
	Special Requirements: (none)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	HZ8	RA: 10 00 4.0000 (150.0166667d) Dec: +02 37 36.00 (2.62667d) Equinox: J2000		V=(?) z=24.4 H=24.1	Reference Frame: IRCS

Proposal 13641 - Visit 08 - A Detailed Dynamical And Morphological Study Of 5<z<6 Star, Dust, and Galaxy Formation With ALMA An...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(8) HZ8	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 1-2 in Visit 08	702.934552 Secs (702.935 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 1-2 in Visit 08	525 Secs (525 Secs) [==>]	[1]
	3		(8) HZ8	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 3-4 in Visit 08	602.934229 Secs (602.934 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 3-4 in Visit 08	507 Secs (507 Secs) [==>]	[1]
	5		(8) HZ8	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 5-6 in Visit 08	702.934552 Secs (702.935 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 5-6 in Visit 08	607 Secs (607 Secs) [==>]	[1]
	7		(8) HZ8	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 7-8 in Visit 08	602.934229 Secs (602.934 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 7-8 in Visit 08	475 Secs (475 Secs) [==>]	[1]
	9		(8) HZ8	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit 08	702.934552 Secs (702.935 Secs) [==>]	[2]
	10		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 9-10 in Visit 08	607 Secs (607 Secs) [==>]	[2]
	11		(8) HZ8	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 11-12 in Visit 08	602.934229 Secs (602.934 Secs) [==>]	[2]
	12		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 11-12 in Visit 08	507 Secs (507 Secs) [==>]	[2]
	13		(8) HZ8	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 13-14 in Visit 08	702.934552 Secs (702.935 Secs) [==>]	[2]
	14		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 13-14 in Visit 08	607 Secs (607 Secs) [==>]	[2]
	15		(8) HZ8	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 15-16 in Visit 08	702.934552 Secs (702.935 Secs) [==>]	[2]
	16		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 15-16 in Visit 08	641 Secs (641 Secs) [==>]	[2]
	17		(8) HZ8	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 17-18 in Visit 08	702.934552 Secs (702.935 Secs) [==>]	[3]
	18		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 17-18 in Visit 08	607 Secs (607 Secs) [==>]	[3]

Proposal 13641 - Visit 08 - A Detailed Dynamical And Morphological Study Of $5 < z < 6$ Star, Dust, and Galaxy Formation With ALMA An...

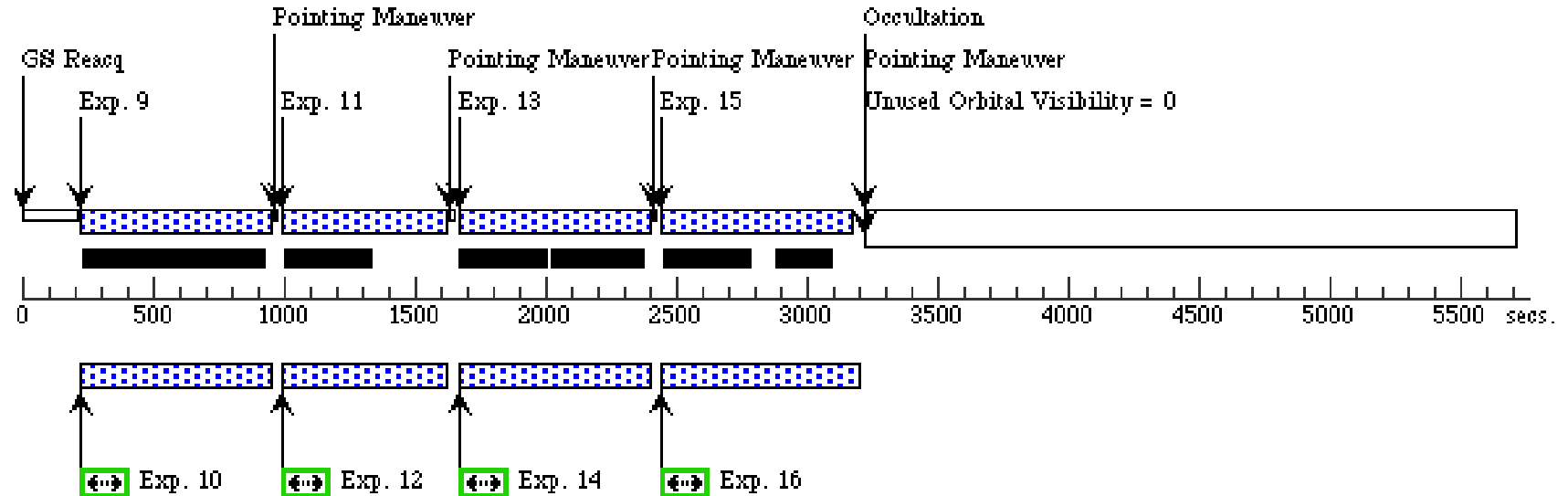
19	(8) HZ8	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 19-20 in Visit 08	602.934229 Secs (602.934 Secs) [==>]	[3]
20	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 19-20 in Visit 08	507 Secs (507 Secs) [==>]	[3]
21	(8) HZ8	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 21-22 in Visit 08	702.934552 Secs (702.935 Secs) [==>]	[3]
22	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 21-22 in Visit 08	607 Secs (607 Secs) [==>]	[3]
23	(8) HZ8	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 23-24 in Visit 08	702.934552 Secs (702.935 Secs) [==>]	[3]
24	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 23-24 in Visit 08	611 Secs (611 Secs) [==>]	[3]



Orbit Structure

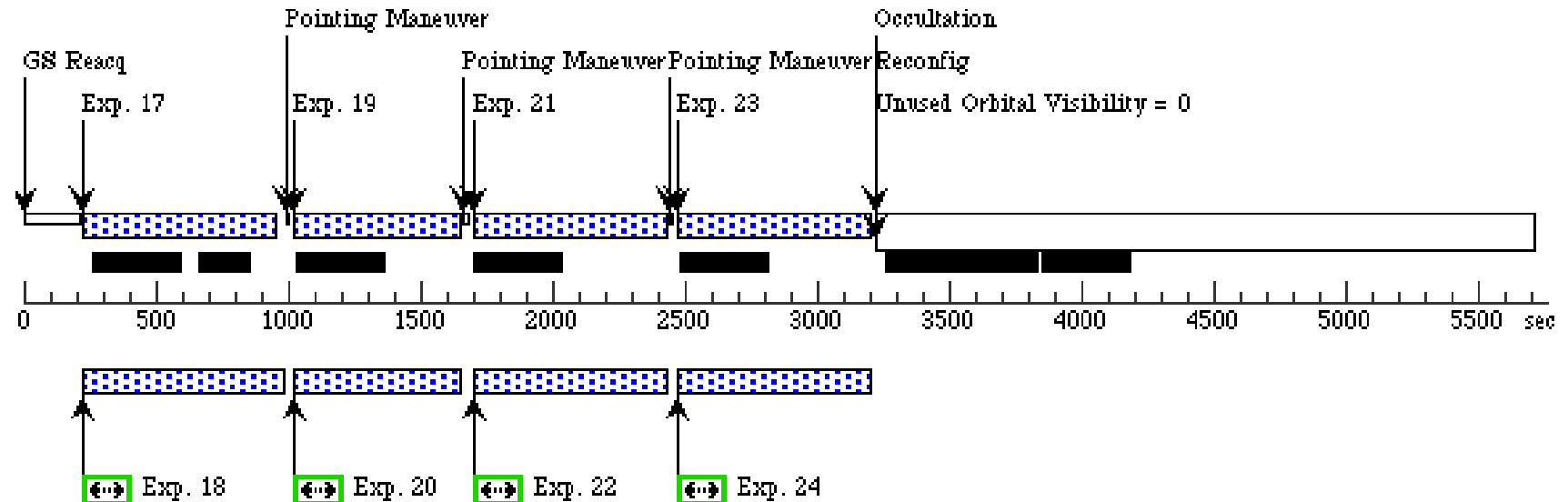
Orbit 2

Server Version: 20140605



Orbit 3

Server Version: 20140605



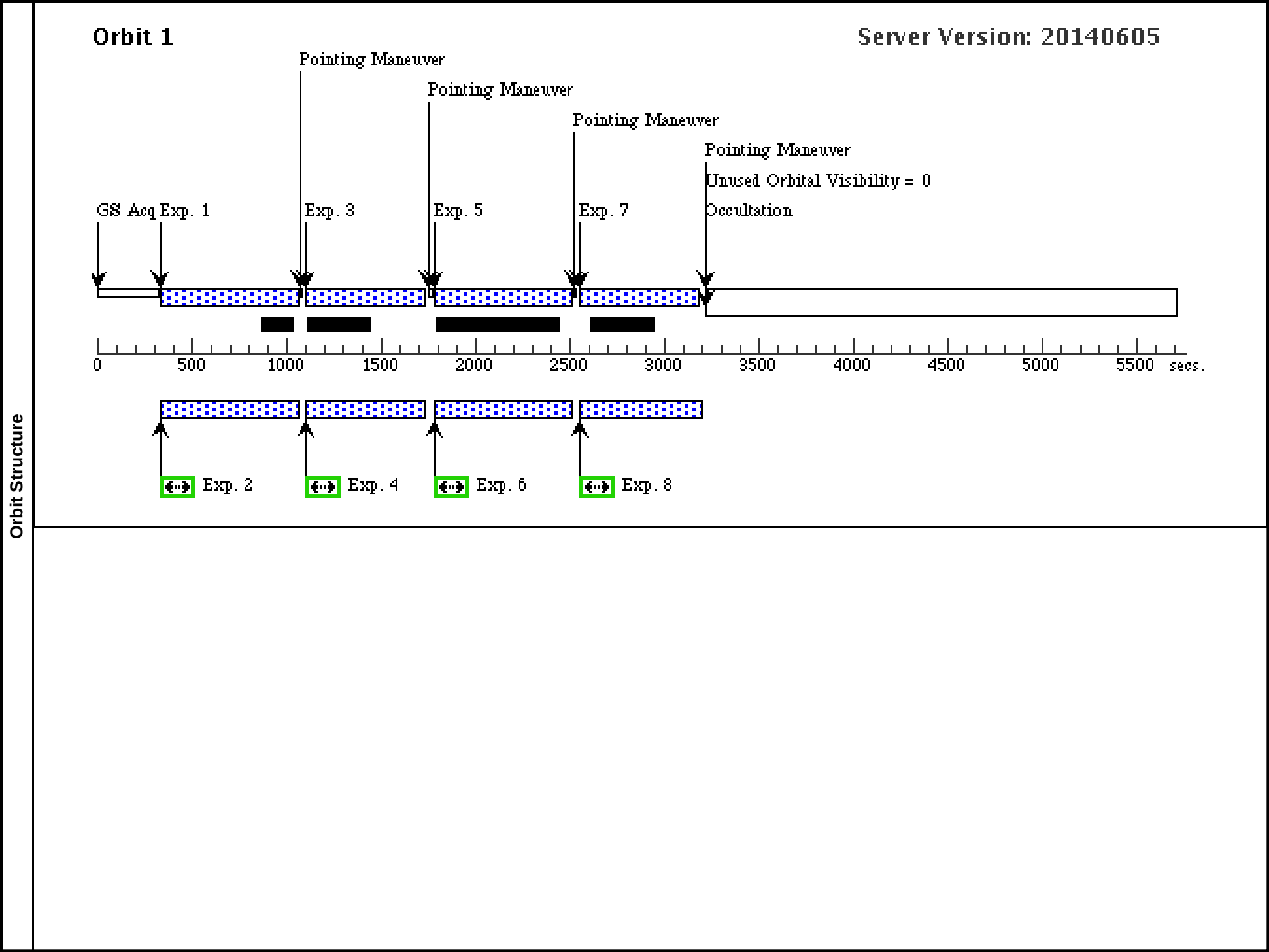
Visit	Proposal 13641, Visit 09					Sat Jul 26 01:01:58 GMT 2014
	Diagnostic Status: No Diagnostics					
Fixed Targets	Scientific Instruments: WFC3/IR, ACS/WFC					
	Special Requirements: (none)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	HZ9	RA: 09 59 51.7000 (149.9654167d) Dec: +02 22 42.20 (2.37839d) Equinox: J2000		V=(?) z=24.9 H=24.3	Reference Frame: IRCS

Proposal 13641 - Visit 09 - A Detailed Dynamical And Morphological Study Of 5<z<6 Star, Dust, and Galaxy Formation With ALMA An...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) HZ9	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 1-2 in Visit 09	702.934552 Secs (702.935 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 1-2 in Visit 09	525 Secs (525 Secs) [==>]	[1]
	3		(9) HZ9	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 3-4 in Visit 09	602.934229 Secs (602.934 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 3-4 in Visit 09	507 Secs (507 Secs) [==>]	[1]
	5		(9) HZ9	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 5-6 in Visit 09	702.934552 Secs (702.935 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 5-6 in Visit 09	607 Secs (607 Secs) [==>]	[1]
	7		(9) HZ9	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 7-8 in Visit 09	602.934229 Secs (602.934 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 7-8 in Visit 09	475 Secs (475 Secs) [==>]	[1]
	9		(9) HZ9	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit 09	702.934552 Secs (702.935 Secs) [==>]	[2]
	10		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 9-10 in Visit 09	607 Secs (607 Secs) [==>]	[2]
	11		(9) HZ9	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 11-12 in Visit 09	602.934229 Secs (602.934 Secs) [==>]	[2]
	12		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 11-12 in Visit 09	507 Secs (507 Secs) [==>]	[2]
	13		(9) HZ9	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 13-14 in Visit 09	702.934552 Secs (702.935 Secs) [==>]	[2]
	14		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 13-14 in Visit 09	607 Secs (607 Secs) [==>]	[2]
	15		(9) HZ9	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 15-16 in Visit 09	702.934552 Secs (702.935 Secs) [==>]	[2]
	16		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 15-16 in Visit 09	641 Secs (641 Secs) [==>]	[2]
	17		(9) HZ9	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 17-18 in Visit 09	702.934552 Secs (702.935 Secs) [==>]	[3]
	18		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 17-18 in Visit 09	607 Secs (607 Secs) [==>]	[3]

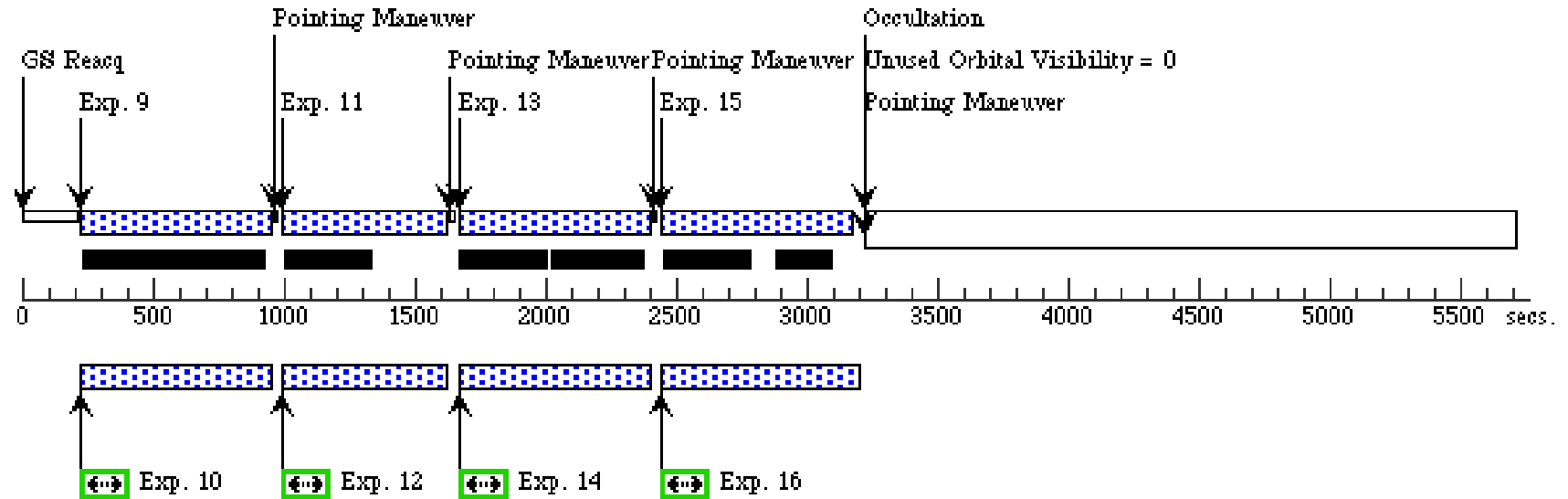
Proposal 13641 - Visit 09 - A Detailed Dynamical And Morphological Study Of $5 < z < 6$ Star, Dust, and Galaxy Formation With ALMA An...

19	(9) HZ9	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Group 19-20 in Visit 09	602.934229 Secs (602.934 Secs) [==>]	[3]
20	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 19-20 in Visit 09	507 Secs (507 Secs) [==>]	[3]
21	(9) HZ9	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Group 21-22 in Visit 09	702.934552 Secs (702.935 Secs) [==>]	[3]
22	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 21-22 in Visit 09	607 Secs (607 Secs) [==>]	[3]
23	(9) HZ9	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Group 23-24 in Visit 09	702.934552 Secs (702.935 Secs) [==>]	[3]
24	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 23-24 in Visit 09	611 Secs (611 Secs) [==>]	[3]



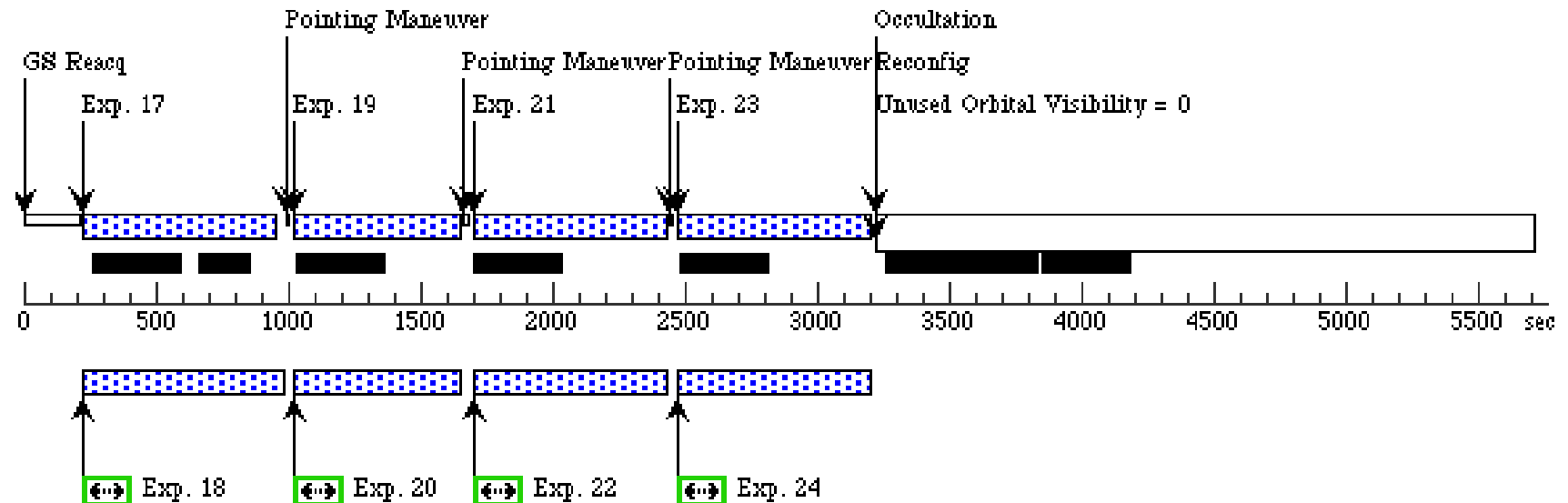
Orbit 2

Server Version: 20140605



Orbit 3

Server Version: 20140605



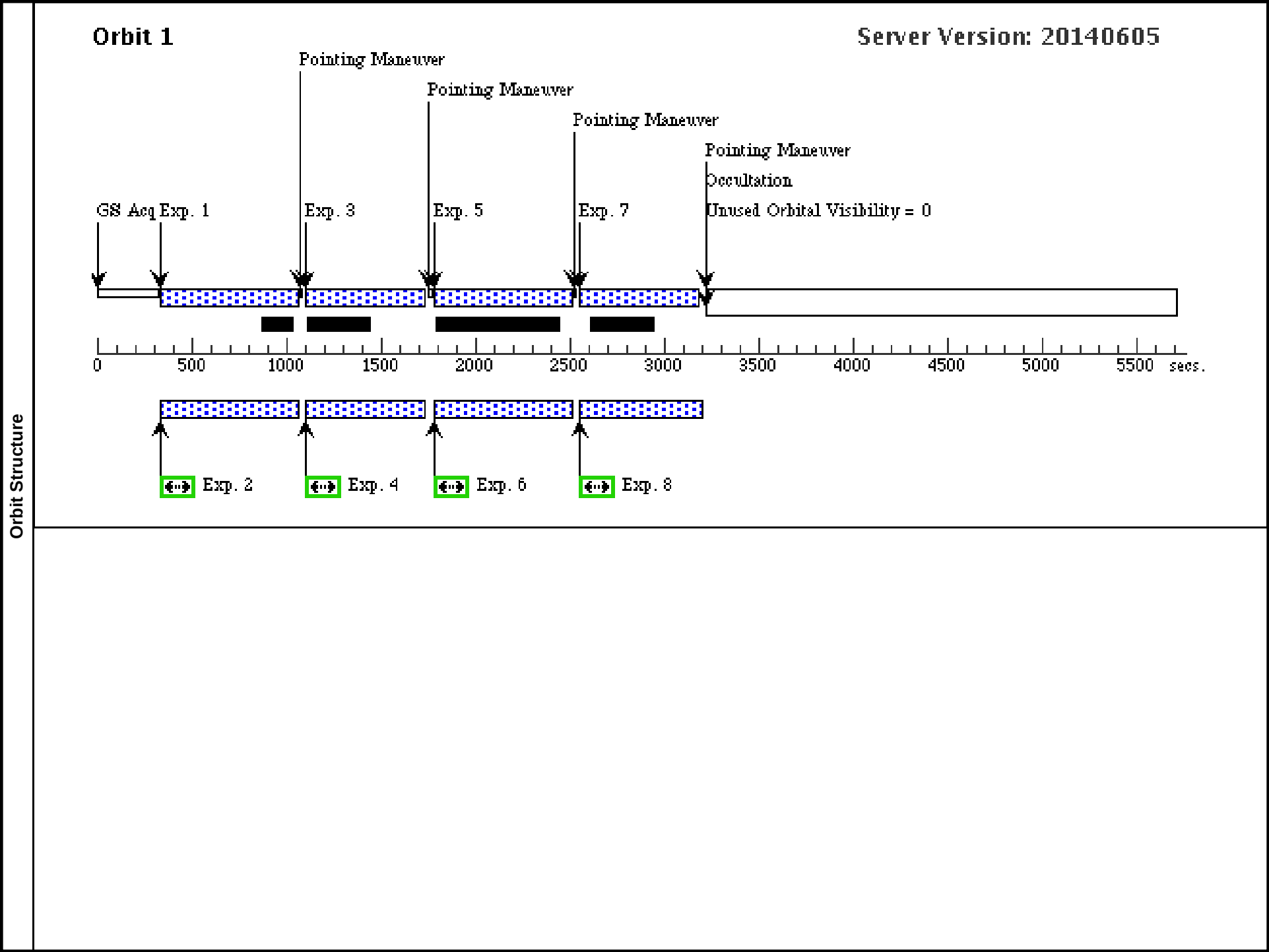
Visit	Proposal 13641, Visit 10					Sat Jul 26 01:01:59 GMT 2014
	Diagnostic Status: No Diagnostics					
Fixed Targets	Scientific Instruments: WFC3/IR, ACS/WFC					
	Special Requirements: (none)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	HZ10	RA: 10 00 59.3000 (150.2470833d) Dec: +01 33 19.50 (1.55542d) Equinox: J2000		V=(?) z=24.8 H>24.5	Reference Frame: IRCS

Proposal 13641 - Visit 10 - A Detailed Dynamical And Morphological Study Of 5<z<6 Star, Dust, and Galaxy Formation With ALMA An...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(10) HZ10	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 1-2 in Visit 10	702.934552 Secs (702.935 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 1-2 in Visit 10	525 Secs (525 Secs) [==>]	[1]
	3		(10) HZ10	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 3-4 in Visit 10	602.934229 Secs (602.934 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 3-4 in Visit 10	507 Secs (507 Secs) [==>]	[1]
	5		(10) HZ10	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 5-6 in Visit 10	702.934552 Secs (702.935 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 5-6 in Visit 10	607 Secs (607 Secs) [==>]	[1]
	7		(10) HZ10	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 7-8 in Visit 10	602.934229 Secs (602.934 Secs) [==>]	[1]
	8		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 7-8 in Visit 10	475 Secs (475 Secs) [==>]	[1]
	9		(10) HZ10	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit 10	702.934552 Secs (702.935 Secs) [==>]	[2]
	10		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 9-10 in Visit 10	607 Secs (607 Secs) [==>]	[2]
	11		(10) HZ10	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Gro up 11-12 in Visit 10	602.934229 Secs (602.934 Secs) [==>]	[2]
	12		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 11-12 in Visit 10	507 Secs (507 Secs) [==>]	[2]
	13		(10) HZ10	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Gro up 13-14 in Visit 10	702.934552 Secs (702.935 Secs) [==>]	[2]
	14		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 13-14 in Visit 10	607 Secs (607 Secs) [==>]	[2]
	15		(10) HZ10	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Gro up 15-16 in Visit 10	702.934552 Secs (702.935 Secs) [==>]	[2]
	16		ANY	ACS/WFC, ACCUM, WFC	F606W			Prime + Parallel Gro up 15-16 in Visit 10	641 Secs (641 Secs) [==>]	[2]
	17		(10) HZ10	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0,0	Prime + Parallel Gro up 17-18 in Visit 10	702.934552 Secs (702.935 Secs) [==>]	[3]
	18		ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Gro up 17-18 in Visit 10	607 Secs (607 Secs) [==>]	[3]

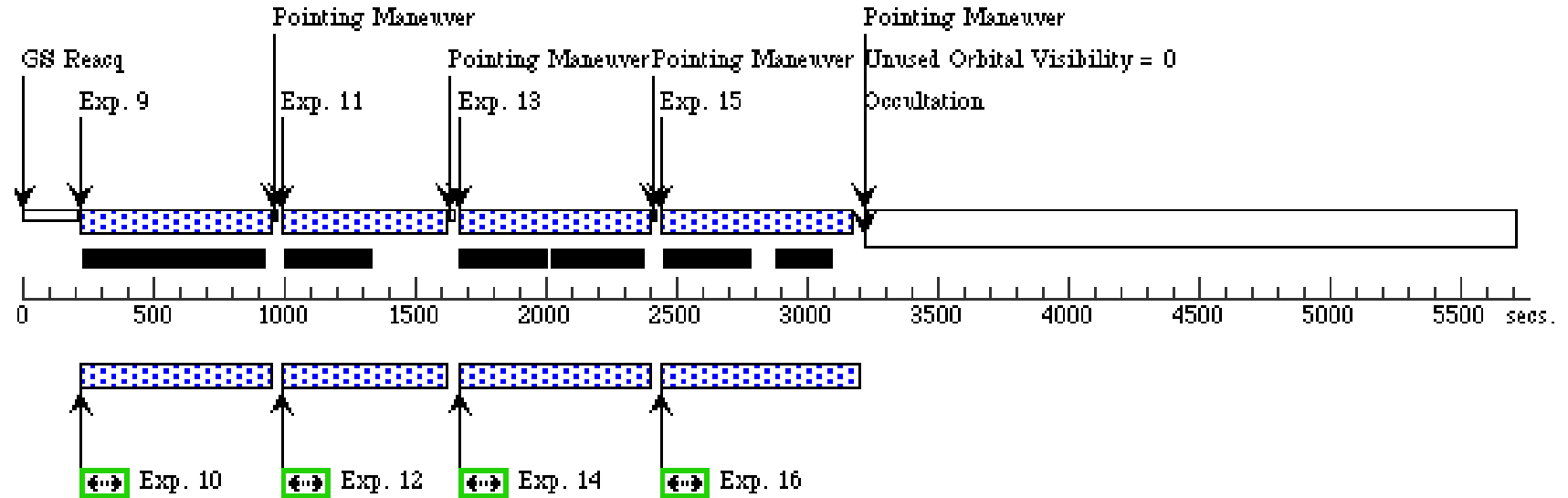
Proposal 13641 - Visit 10 - A Detailed Dynamical And Morphological Study Of $5 < z < 6$ Star, Dust, and Galaxy Formation With ALMA An...

19	(10) HZ10	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0,6	Prime + Parallel Group 19-20 in Visit 10	602.934229 Secs (602.934 Secs) [==>]	[3]
20	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 19-20 in Visit 10	507 Secs (507 Secs) [==>]	[3]
21	(10) HZ10	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG -3,-5.2	Prime + Parallel Group 21-22 in Visit 10	702.934552 Secs (702.935 Secs) [==>]	[3]
22	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 21-22 in Visit 10	607 Secs (607 Secs) [==>]	[3]
23	(10) HZ10	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 3,-5.2	Prime + Parallel Group 23-24 in Visit 10	702.934552 Secs (702.935 Secs) [==>]	[3]
24	ANY	ACS/WFC, ACCUM, WFC	F475W			Prime + Parallel Group 23-24 in Visit 10	611 Secs (611 Secs) [==>]	[3]



Orbit 2

Server Version: 20140605



Orbit 3

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