



# 12455 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Cycle: 19, Proposal Category: GO

(Treasury)

(Availability Mode: SUPPORTED)

## INVESTIGATORS

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Proposal 12455 (STScI Edit Number: 5, Created: Tuesday, July 3, 2012 9:19:28 PM EST) - Overview

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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>
A0	(1) MACS1720+3536 (3) MACS1720-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:15:48.0	yes
A1	(1) MACS1720+3536 (3) MACS1720-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:16:01.0	yes
A2	(1) MACS1720+3536 (2) MACS1720-ACSPAR1	ACS/WFC WFC3/IR	1	03-Jul-2012 22:16:13.0	yes
A3	(1) MACS1720+3536 (3) MACS1720-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:16:23.0	yes
A4	(1) MACS1720+3536 (2) MACS1720-ACSPAR1	ACS/WFC WFC3/IR	1	03-Jul-2012 22:16:33.0	yes
A5	(1) MACS1720+3536 (3) MACS1720-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:16:43.0	yes

Proposal 12455 (STScI Edit Number: 5, Created: Tuesday, July 3, 2012 9:19:28 PM EST) - Overview

<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>
A6	(1) MACS1720+3536 (2) MACS1720-ACSPAR1	ACS/WFC WFC3/UVIS	2	03-Jul-2012 22:17:02.0	yes
A8	(1) MACS1720+3536 (3) MACS1720-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:17:15.0	yes
A9	(1) MACS1720+3536 (2) MACS1720-ACSPAR1	ACS/WFC WFC3/IR	1	03-Jul-2012 22:17:25.0	yes
B0	(1) MACS1720+3536 (5) MACS1720-WFC3PAR2	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:17:35.0	yes
B1	(1) MACS1720+3536 (4) MACS1720-ACSPAR2	ACS/WFC WFC3/IR	1	03-Jul-2012 22:17:44.0	yes
B2	(1) MACS1720+3536 (5) MACS1720-WFC3PAR2	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:17:57.0	yes
B3	(1) MACS1720+3536 (4) MACS1720-ACSPAR2	ACS/WFC WFC3/UVIS	2	03-Jul-2012 22:18:13.0	yes
B5	(1) MACS1720+3536 (5) MACS1720-WFC3PAR2	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:18:25.0	yes
B6	(1) MACS1720+3536 (4) MACS1720-ACSPAR2	ACS/WFC WFC3/IR WFC3/UVIS	2	03-Jul-2012 22:18:39.0	yes
B7	(1) MACS1720+3536 (5) MACS1720-WFC3PAR2	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:18:51.0	yes
B8	(1) MACS1720+3536 (4) MACS1720-ACSPAR2	ACS/WFC WFC3/IR	1	03-Jul-2012 22:19:00.0	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>
AA	(1) MACS1720+3536 (3) MACS1720-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 22:19:10.0	yes
AB	(1) MACS1720+3536 (2) MACS1720-ACSPAR1	ACS/WFC WFC3/IR	1	03-Jul-2012 22:19:19.0	yes

22 Total Orbits Used

### **ABSTRACT**

As the most massive objects in the universe, galaxy clusters represent important signposts in our story of structure evolution, and are the ultimate telescopic lenses, placing gravitationally lensed galaxies from the earliest epochs in comfortable reach for careful study. We take full advantage of the refurbished ACS and WFC3 cameras to deliver deep 14-filter images of 25 carefully chosen clusters. These will enable us to address timely and substantive questions about dark matter, dark energy, and galaxy evolution well beyond  $z=7$ . These X-ray clusters are chosen to be free of lensing bias and to span a wide range of redshift and mass. By combining strong and weak lensing, we will obtain the definitive mass profile of relaxed clusters to confront the distinctive prediction of the standard LambdaCDM model. Detailed maps of internal structure will be enabled by ~1,000 new multiply-imaged lensed sources to AB=26, all with precise ( $2\% \times (1+z)$ ) photometric redshift measurements, thanks to WFC3's UV and IR coverage. A supernovae search in parallel (with low magnification uncertainties) will extend the Hubble diagram of SN1a to  $z>1.5$ , testing the constancy of dark energy with time and probing progenitor evolution. Our homogeneous panchromatic deep imaging of this cluster sample will constitute a vast legacy archive for studies of the formation and evolution of structure.

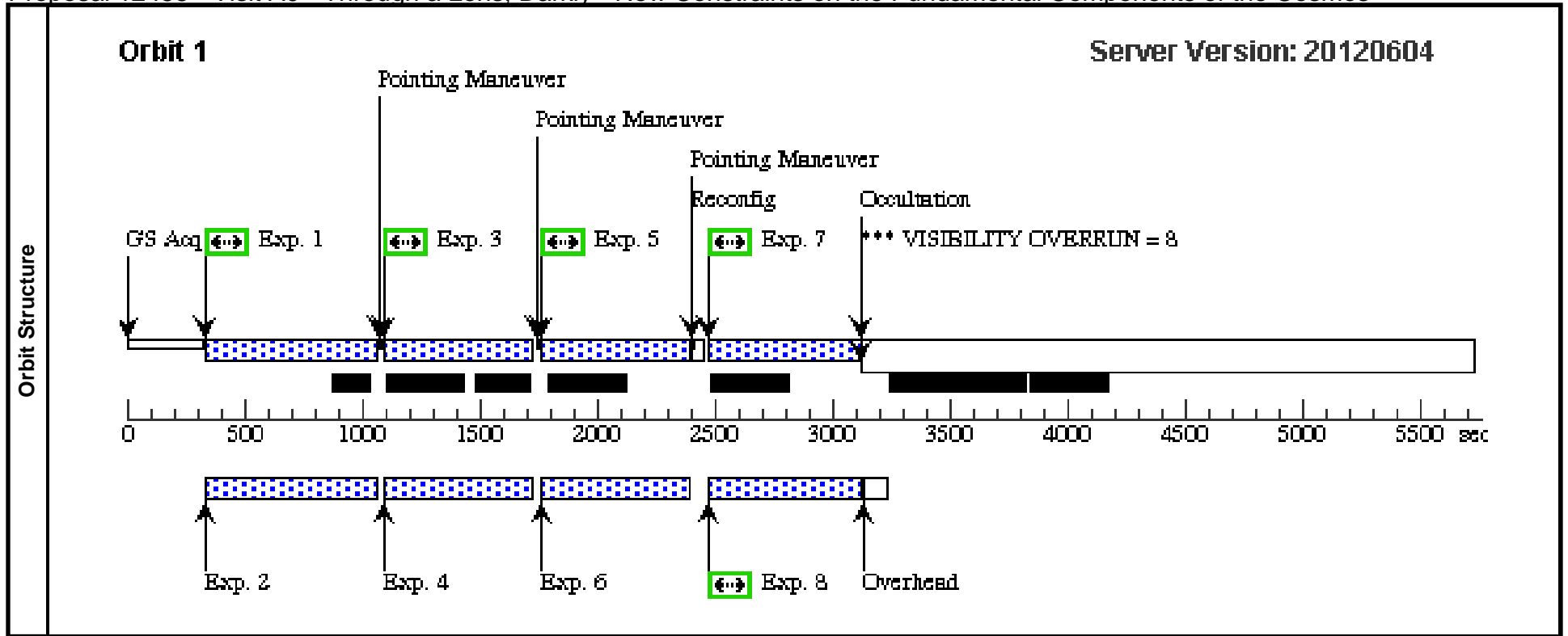
### **OBSERVING DESCRIPTION**

There are two special requirements: orientation and cadence. Four epochs must be executed at the same orientation. Each epoch will be between 10 and 14 days, depending on the roll angle availability for the given target. There will be two orientations selected, which will be approximately 20-30 degrees apart.

Proposal 12455 - Visit A0 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:29 GMT 2012

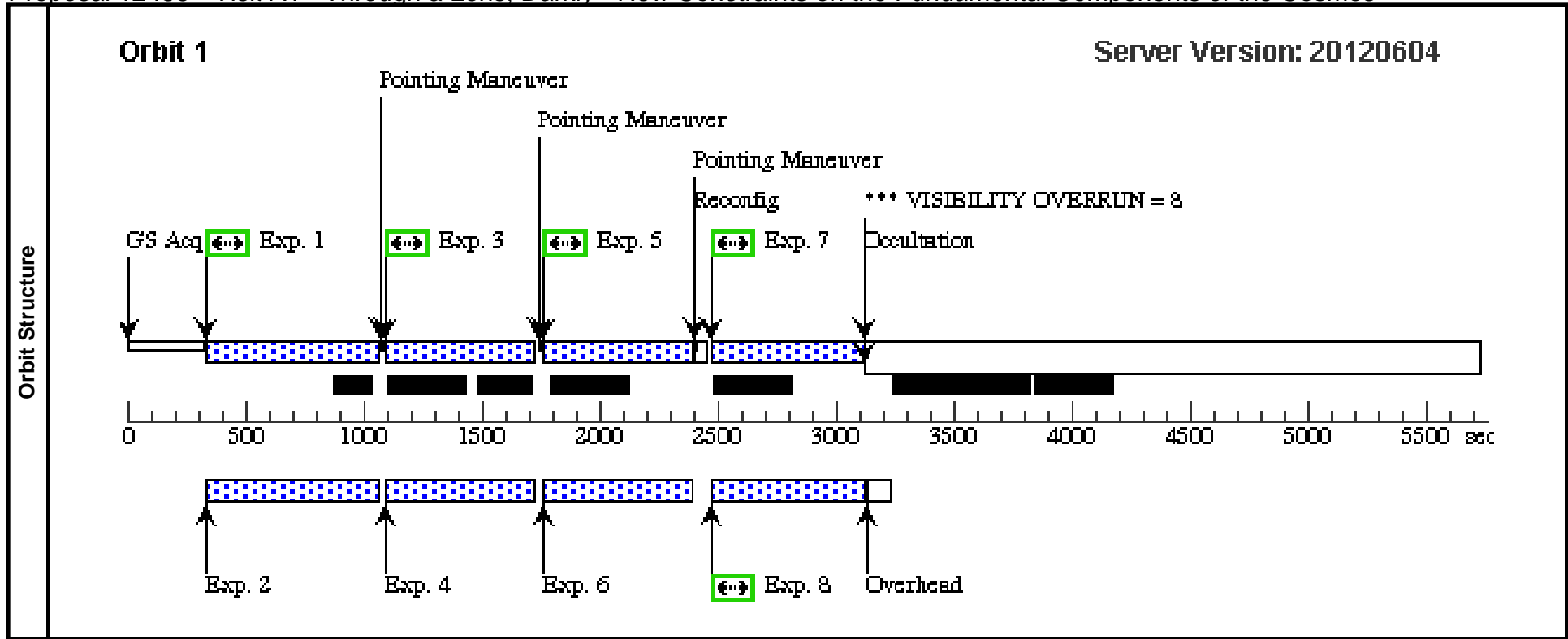
<b>Visit</b>	<b>Proposal 12455, Visit A0, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; ORIENT 131D TO 221 D; ORIENT 311D TO 38 D Comments: Visits A0-A2 represent epoch 1 (at orient 1) and should be taken concurrently. Orient constraints are to avoid placing a bright star in the parallel fields.									
	(Visit A0) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100. (Visit A0) Warning (Orbit Planner): VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
(3)	MACS1720-WFC3PAR1	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS					
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A0	525 Secs [==>525 Secs]	[1]
	2		(3) MACS1720-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=8		Prime + Parallel Group 1-2 in Visit A0	[==>]	[1]
	3		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG 0.0741,0 .1295	Prime + Parallel Group 3-4 in Visit A0	507 Secs [==>507.0 Secs]	[1]
	4		(3) MACS1720-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A0	[==>]	[1]
	5		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.1729,- 0.0848	Prime + Parallel Group 5-6 in Visit A0	551 Secs [==>485 Secs]	[1]
	6		(3) MACS1720-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A0	[==>]	[1]
	7		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.247,0. 2423	Prime + Parallel Group 7-8 in Visit A0	564 Secs [==>522 Secs]	[1]
8		(3) MACS1720-WFC3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A0	400 Secs [==>616 Secs]	[1]	



Proposal 12455 - Visit A1 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:31 GMT 2012

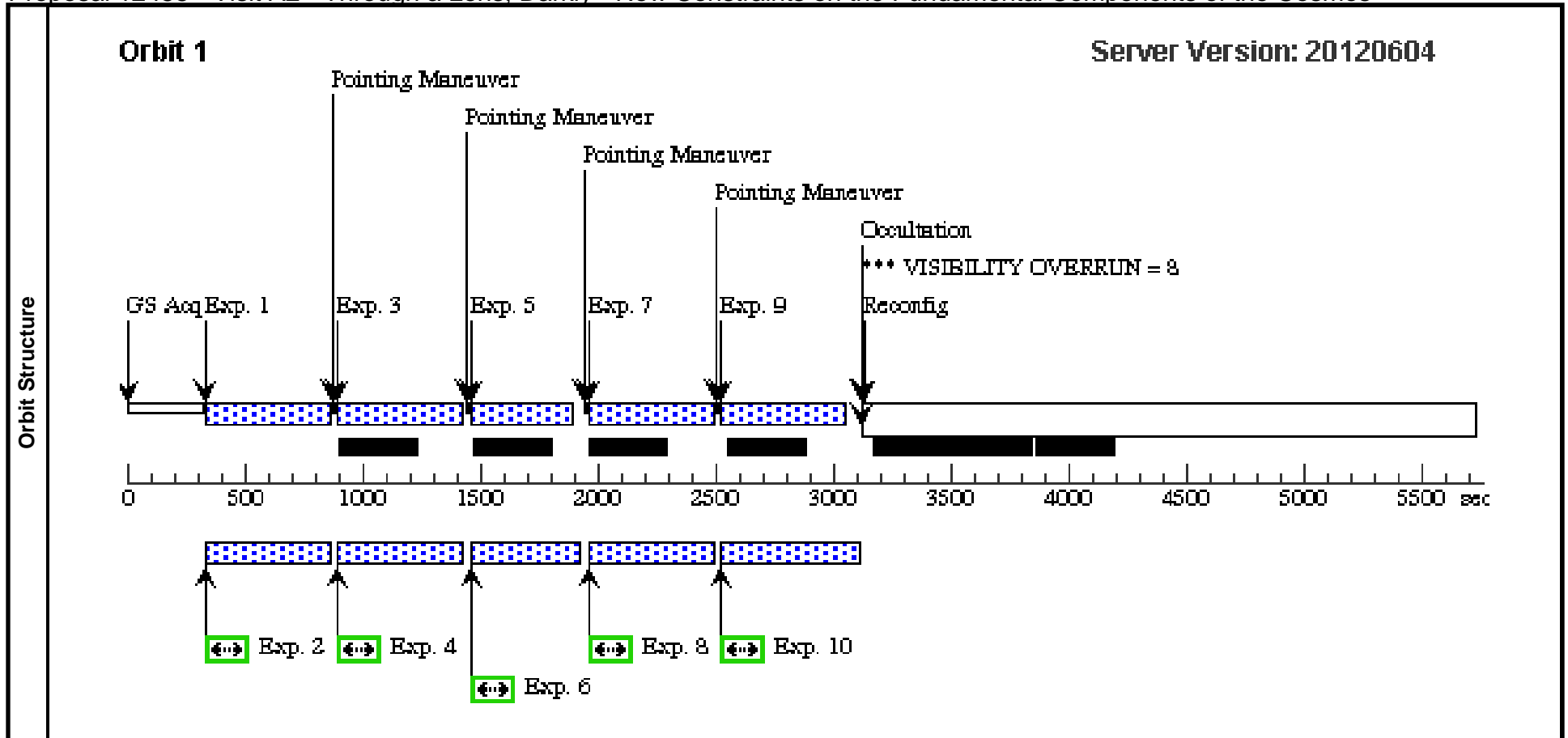
<b>Visit</b>	<b>Proposal 12455, Visit A1, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; SEQ A0,A1 WITHIN 1.2 Orbits <i>Comments: Visits A0-A2 represent epoch 1 (at orient 1) and should be taken concurrently</i>									
	(Visit A1) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100. (Visit A1) Warning (Orbit Planner): VISIBILITY OVERRUN									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
(3)	MACS1720-WFC3PAR1	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS					
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F475W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A1	525 Secs [==>525 Secs ]	[1]
	2		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=8		Prime + Parallel Group 1-2 in Visit A1	[==>]	[1]
	3		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F475W		POS TARG 0.0741,0 .1295	Prime + Parallel Group 3-4 in Visit A1	507 Secs [==>507.0 Secs ]	[1]
	4		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A1	[==>]	[1]
	5		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0.1729,- 0.0848	Prime + Parallel Group 5-6 in Visit A1	551 Secs [==>481 Secs ]	[1]
	6		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A1	[==>]	[1]
	7		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0.247,0. 2423	Prime + Parallel Group 7-8 in Visit A1	564 Secs [==>522.0 Secs ]	[1]
	8		(3) MACS1720-WF C3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A1	400 Secs [==>616.0 Secs ]	[1]



Proposal 12455 - Visit A2 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:32 GMT 2012

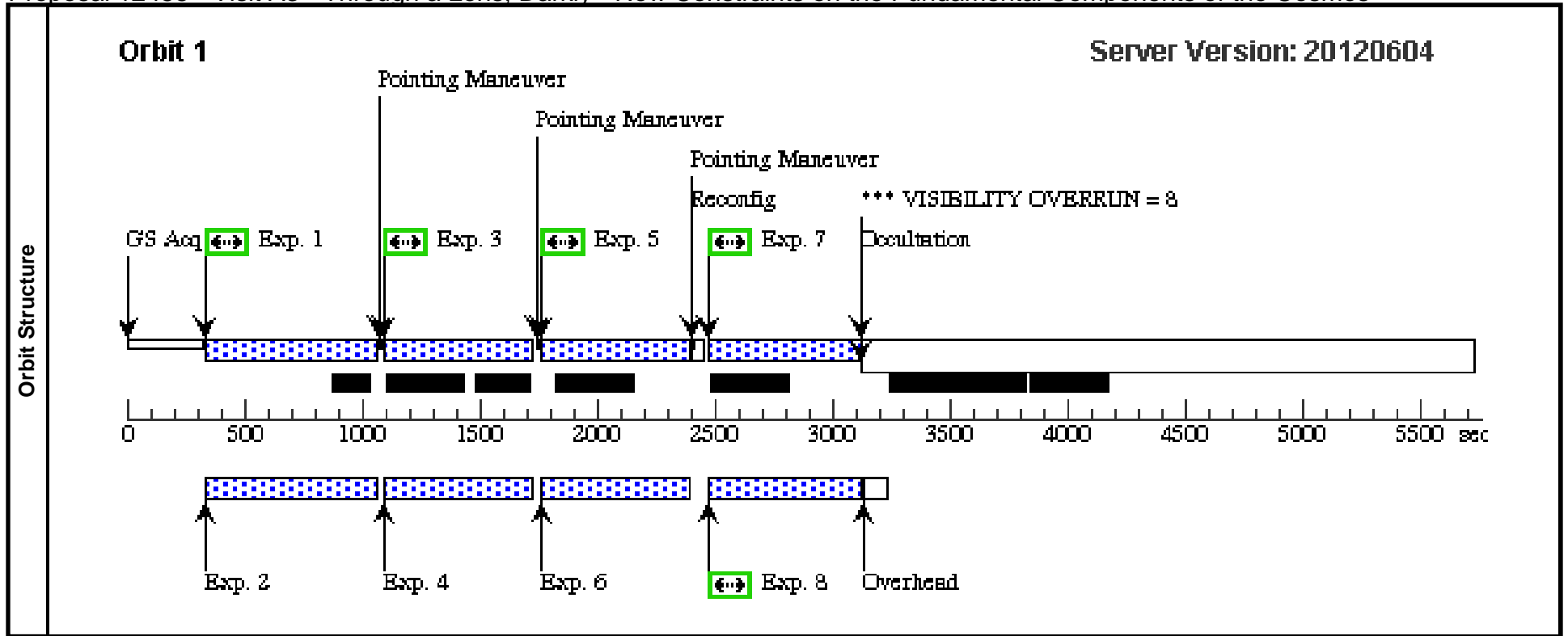
<b>Visit</b>	<b>Proposal 12455, Visit A2, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; SEQ A1,A2 WITHIN 1.2 Orbits <i>Comments: Visits A0-A2 represent epoch 1 (at orient 1) and should be taken concurrently</i>									
	(Visit A2) Warning (Orbit Planner): PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME (Visit A2) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100. (Visit A2) Warning (Orbit Planner): VISIBILITY OVERRUN									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
(2)	MACS1720-ACSPAR1	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS					
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A2	[==>]	[1]
	2		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit A2	525 Secs [==>325.0 Secs]	[1]
	3		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.20325, -0.18165	Prime + Parallel Group 3-4 in Visit A2	[==>]	[1]
	4		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit A2	607 Secs [==>407.0 Secs]	[1]
	5		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG 0.47425, 0.6055	Prime + Parallel Group 5-6 in Visit A2	[==>]	[1]
	6		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit A2	582 Secs [==>339.0 Secs]	[1]
	7		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.271,0 .42385	Prime + Parallel Group 7-8 in Visit A2	[==>]	[1]
	8		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit A2	587 Secs [==>407.0 Secs]	[1]
	9		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.47425, 0.6055	Prime + Parallel Group 9-10 in Visit A2	[==>]	[1]
10		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit A2	587 Secs [==>445.0 Secs]	[1]	



Proposal 12455 - Visit A3 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:34 GMT 2012

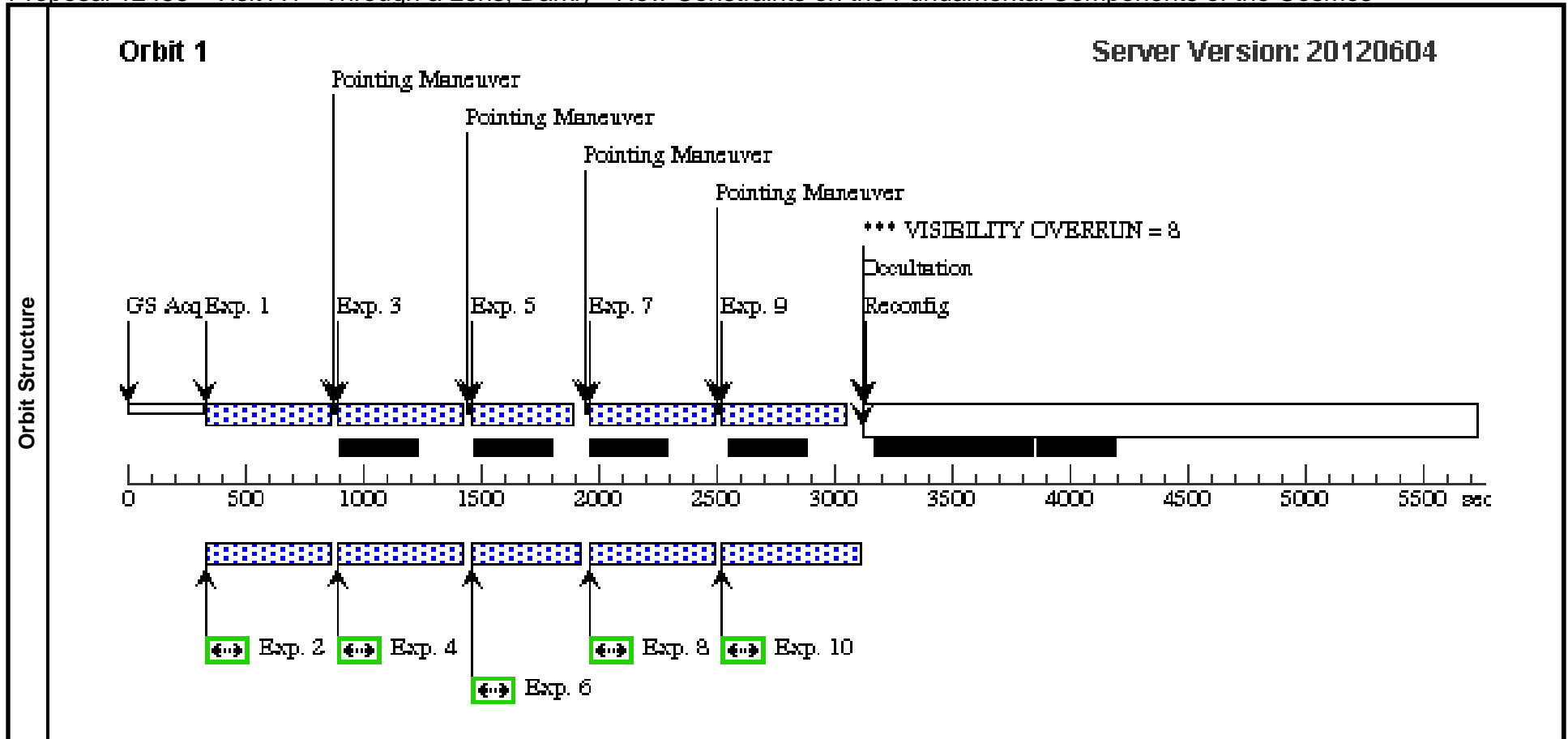
Visit	<b>Proposal 12455, Visit A3, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; AFTER A0 BY 12 D TO 14 D <i>Comments: Visits A3-A4 represent epoch 2 (at orient 1) and should be taken concurrently</i>									
	Diagnostics	(Visit A3) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100. (Visit A3) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
(3)	MACS1720-WFC3PAR1	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F606W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A3	525 Secs [==>525 Secs ]	[1]
	2		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=8		Prime + Parallel Group 1-2 in Visit A3	[==>]	[1]
	3		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F606W		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit A3	507 Secs [==>507.0 Secs ]	[1]
	4		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A3	[==>]	[1]
	5		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit A3	551 Secs [==>452.0 Secs ]	[1]
	6		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A3	[==>]	[1]
	7		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit A3	564 Secs [==>522 Secs ]	[1]
	8		(3) MACS1720-WF C3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A3	400 Secs [==>616 Secs ]	[1]



Proposal 12455 - Visit A4 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:35 GMT 2012

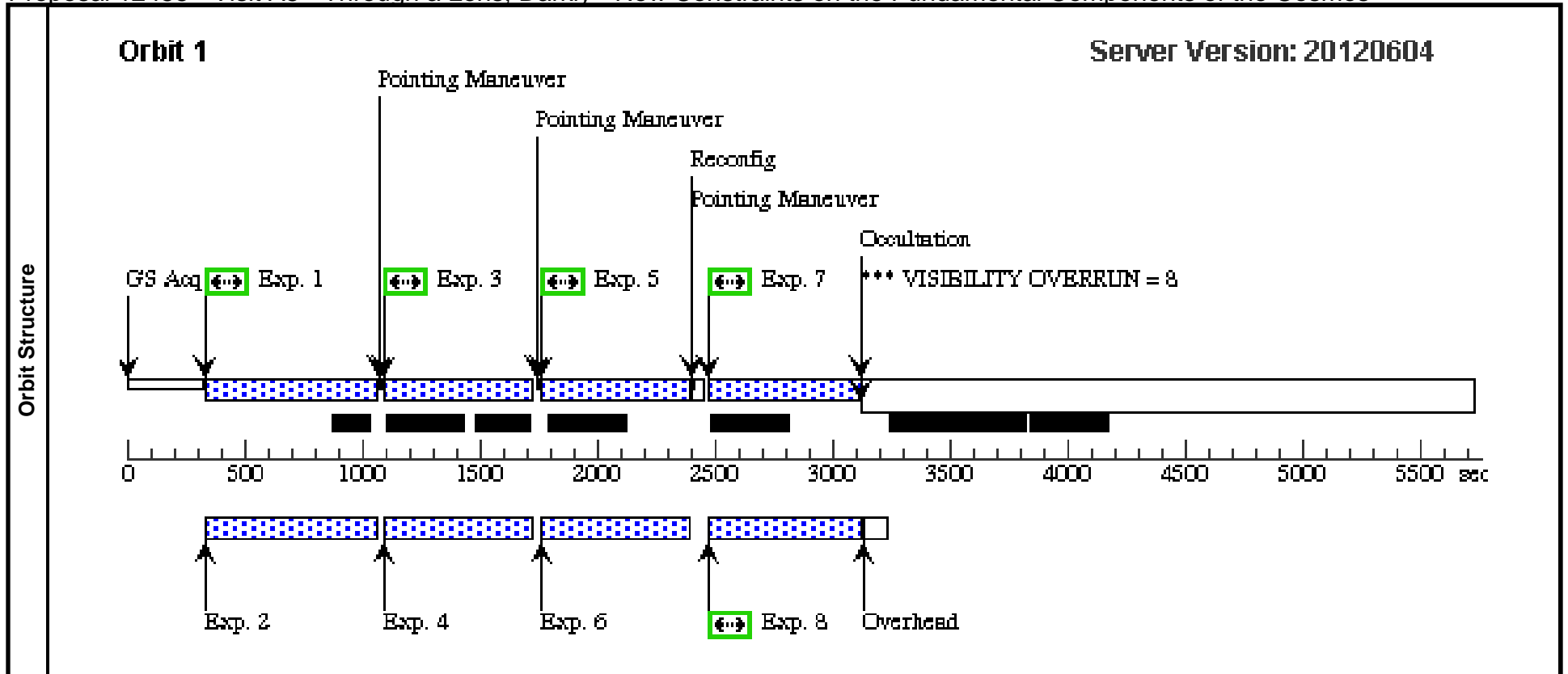
Visit	<b>Proposal 12455, Visit A4, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; SEQ A3,A4 WITHIN 1.2 Orbits <i>Comments: Visits A3-A4 represent epoch 2 (at orient 1) and should be taken concurrently</i>									
	Diagnostics	(Visit A4) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit A4) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100. (Visit A4) Warning (Orbit Planner): PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS			
	(2)	MACS1720-ACSPAR1	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A4	[==>]	[1]
	2		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit A4	525 Secs [==>325.0 Secs ]	[1]
	3		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -1.1517 5,0.42385	Prime + Parallel Group 3-4 in Visit A4	[==>]	[1]
	4		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit A4	607 Secs [==>407 Secs ]	[1]
	5		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG -0.813,- 0.30275	Prime + Parallel Group 5-6 in Visit A4	[==>]	[1]
	6		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit A4	582 Secs [==>339 Secs ]	[1]
	7		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.33875, -0.1211	Prime + Parallel Group 7-8 in Visit A4	[==>]	[1]
	8		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit A4	587 Secs [==>407.0 Secs ]	[1]
	9		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.813,- 0.30275	Prime + Parallel Group 9-10 in Visit A4	[==>]	[1]
10		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit A4	587 Secs [==>445 Secs ]	[1]	



Proposal 12455 - Visit A5 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:36 GMT 2012

Visit	<b>Proposal 12455, Visit A5, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; AFTER A0 BY 26 D TO 28 D <i>Comments: Visits A5-A6 represent epoch 3 (at orient 1) and should be taken concurrently</i>									
	Diagnostics	(Visit A5) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100. (Visit A5) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
(3)	MACS1720-WFC3PAR1	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A5	525 Secs [==>525 Secs ]	[1]
	2		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=8		Prime + Parallel Group 1-2 in Visit A5	[==>]	[1]
	3		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit A5	507 Secs [==>507.0 Secs ]	[1]
	4		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A5	[==>]	[1]
	5		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit A5	551 Secs [==>485 Secs ]	[1]
	6		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A5	[==>]	[1]
	7		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit A5	564 Secs [==>522 Secs ]	[1]
	8		(3) MACS1720-WF C3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A5	400 Secs [==>616 Secs ]	[1]



Proposal 12455 - Visit A6 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:37 GMT 2012

<b>Visit</b>	<p><b>Proposal 12455, Visit A6, completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SCHED 80%; SAME ORIENT AS A0; SEQ A5,A6 WITHIN 1.2 Orbits</p> <p><i>Comments: Visits A5-A6 represent epoch 3 (at orient 1) and should be taken concurrently</i></p>					
	<p>(Visit A6) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.</p> <p>(Visit A6) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit A6) Warning (Orbit Planner): VISIBILITY OVERRUN</p>					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS
	(2)	MACS1720-ACSPAR1	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS

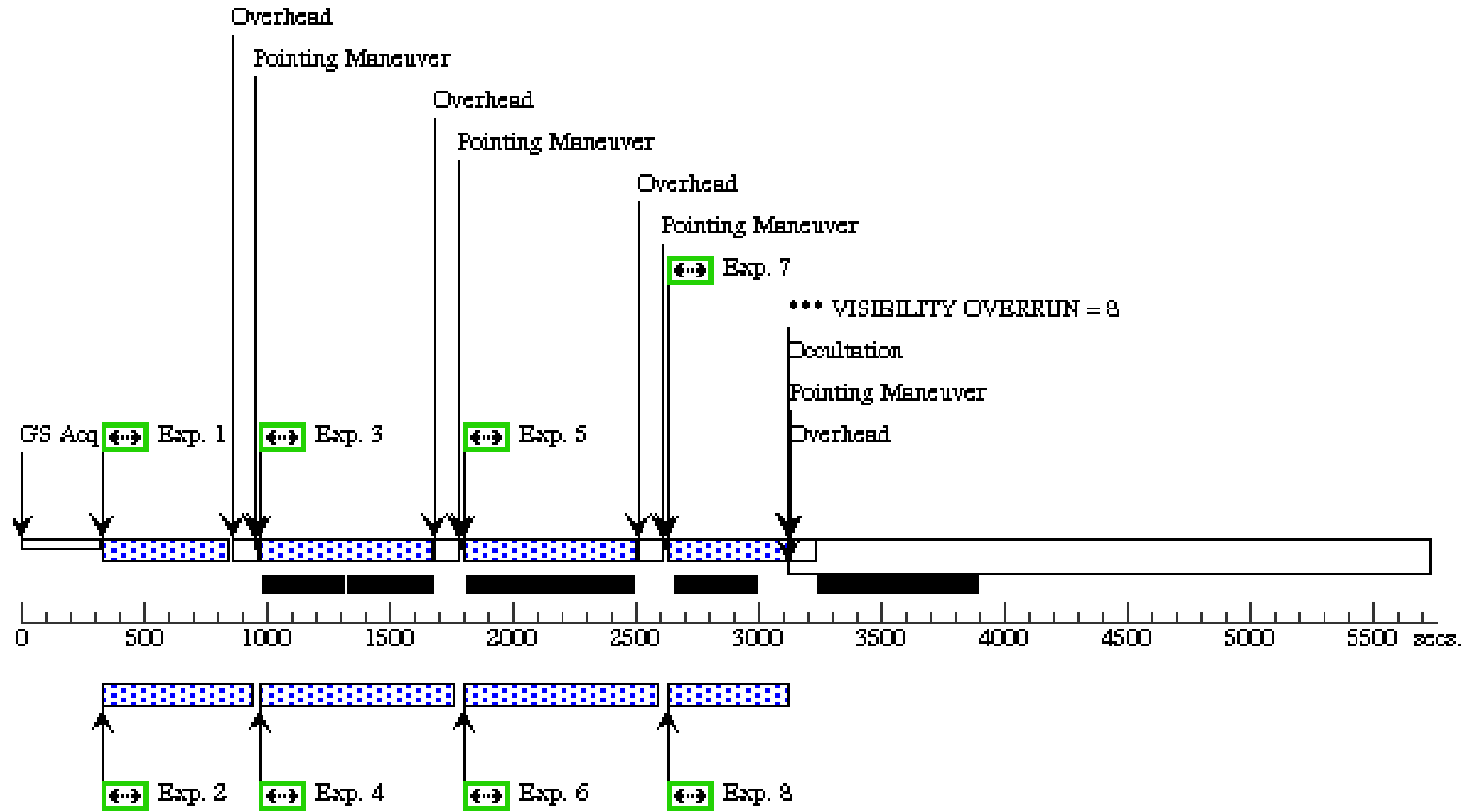
Proposal 12455 - Visit A6 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

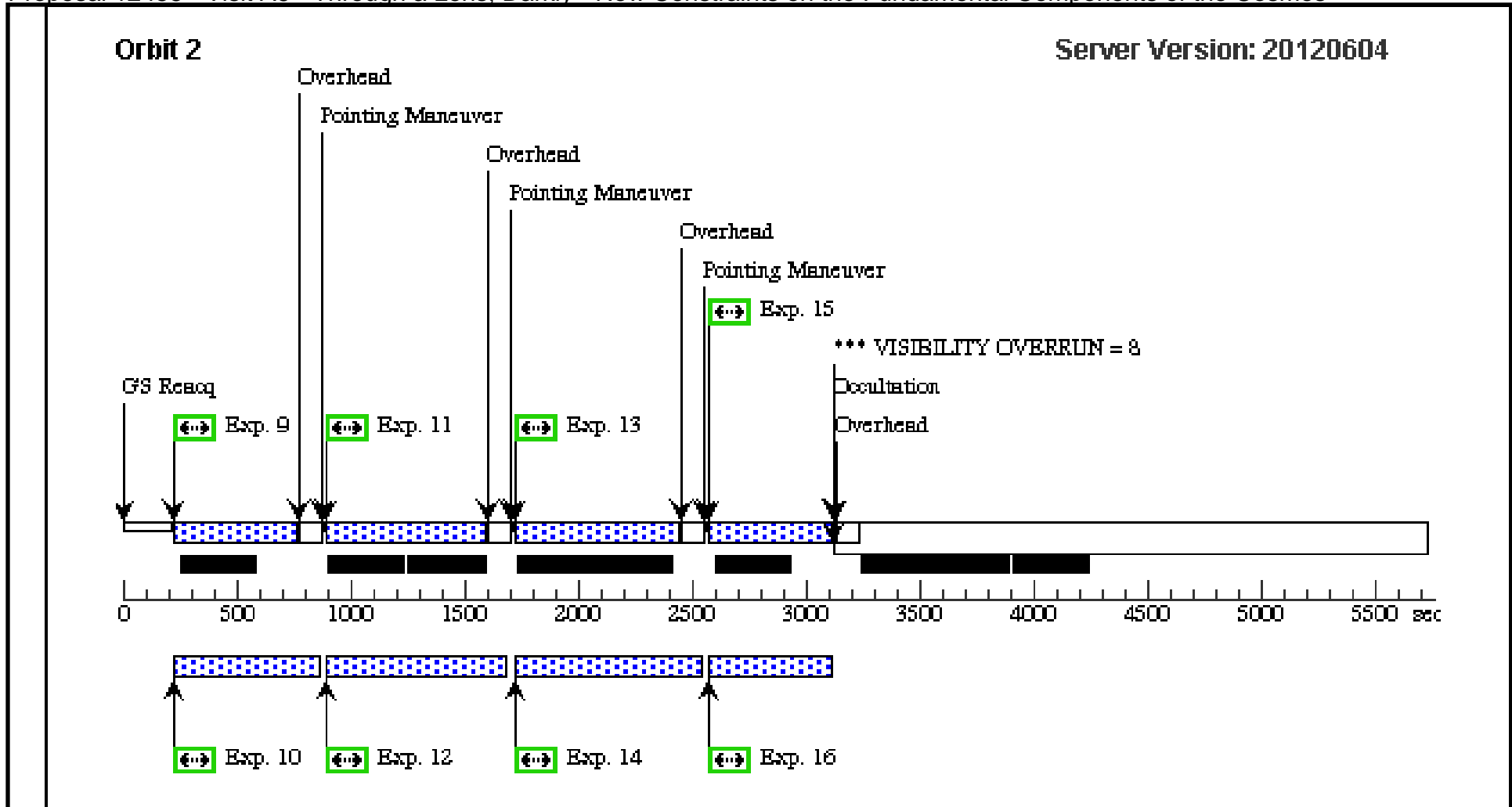
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0,0; GS ACQ SCENARI O.BASE1B3	Prime + Parallel Gro up 1-2 in Visit A6	600 Secs [==>484 Secs ]	[1]
	2		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 1-2 in Visit A6	600 Secs [==>404 Secs ]	[1]
	3		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Gro up 3-4 in Visit A6	600 Secs [==>699.0 Secs ]	[1]
	4		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 3-4 in Visit A6	600 Secs [==>669.0 Secs ]	[1]
	5		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Gro up 5-6 in Visit A6	600 Secs [==>699.0 Secs ]	[1]
	6		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 5-6 in Visit A6	600 Secs [==>669 Secs ]	[1]
	7		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Gro up 7-8 in Visit A6	600 Secs [==>490 Secs ]	[1]
	8		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Gro up 7-8 in Visit A6	600 Secs [==>339 Secs ]	[1]
	9		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit A6	600 Secs [==>545 Secs ]	[2]
	10		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 9-10 in Visit A6	600 Secs [==>489 Secs ]	[2]
	11		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Gro up 11-12 in Visit A6	600 Secs [==>699.0 Secs ]	[2]
	12		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 11-12 in Visit A6	600 Secs [==>669.0 Secs ]	[2]
	13		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Gro up 13-14 in Visit A6	600 Secs [==>699.0 Secs ]	[2]
	14		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 13-14 in Visit A6	600 Secs [==>695.0 Secs ]	[2]
	15		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Gro up 15-16 in Visit A6	600 Secs [==>546 Secs ]	[2]
16		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Gro up 15-16 in Visit A6	600 Secs [==>395 Secs ]	[2]	

Orbit 1

Server Version: 20120604

Orbit Structure

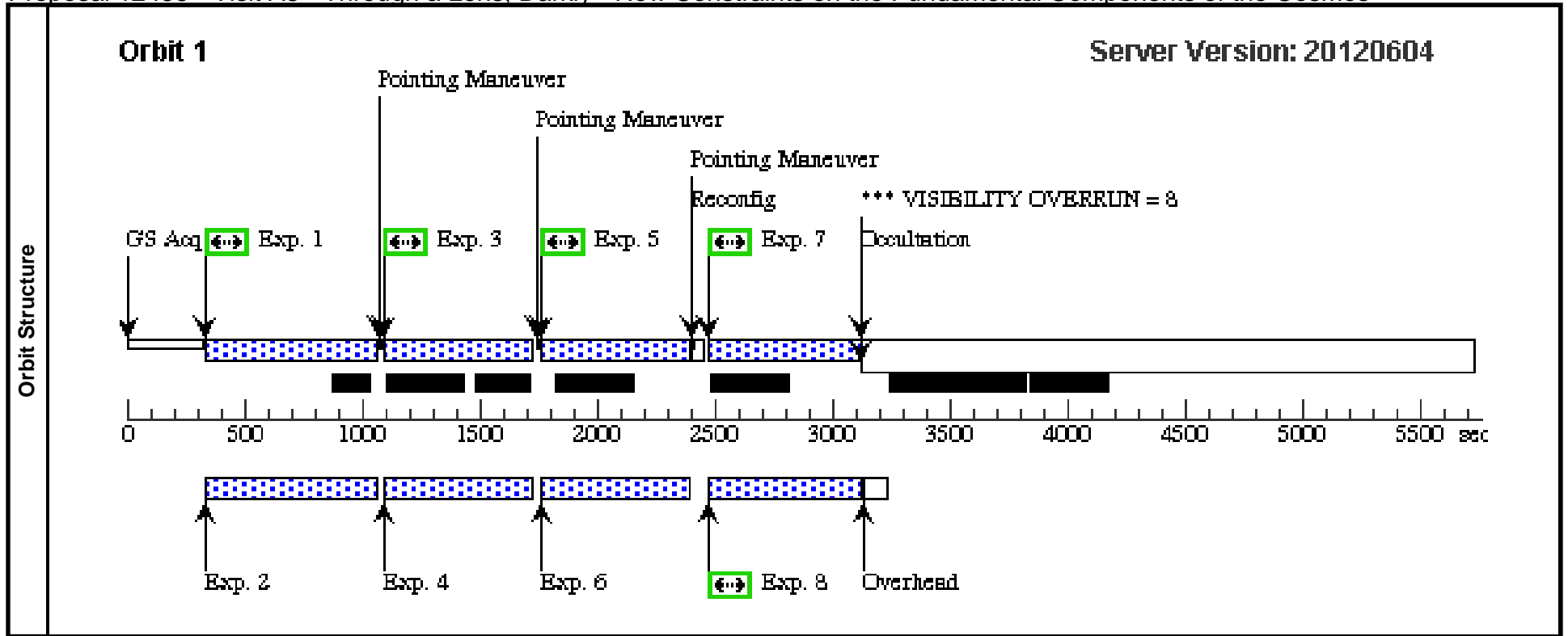




Proposal 12455 - Visit A8 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:40 GMT 2012

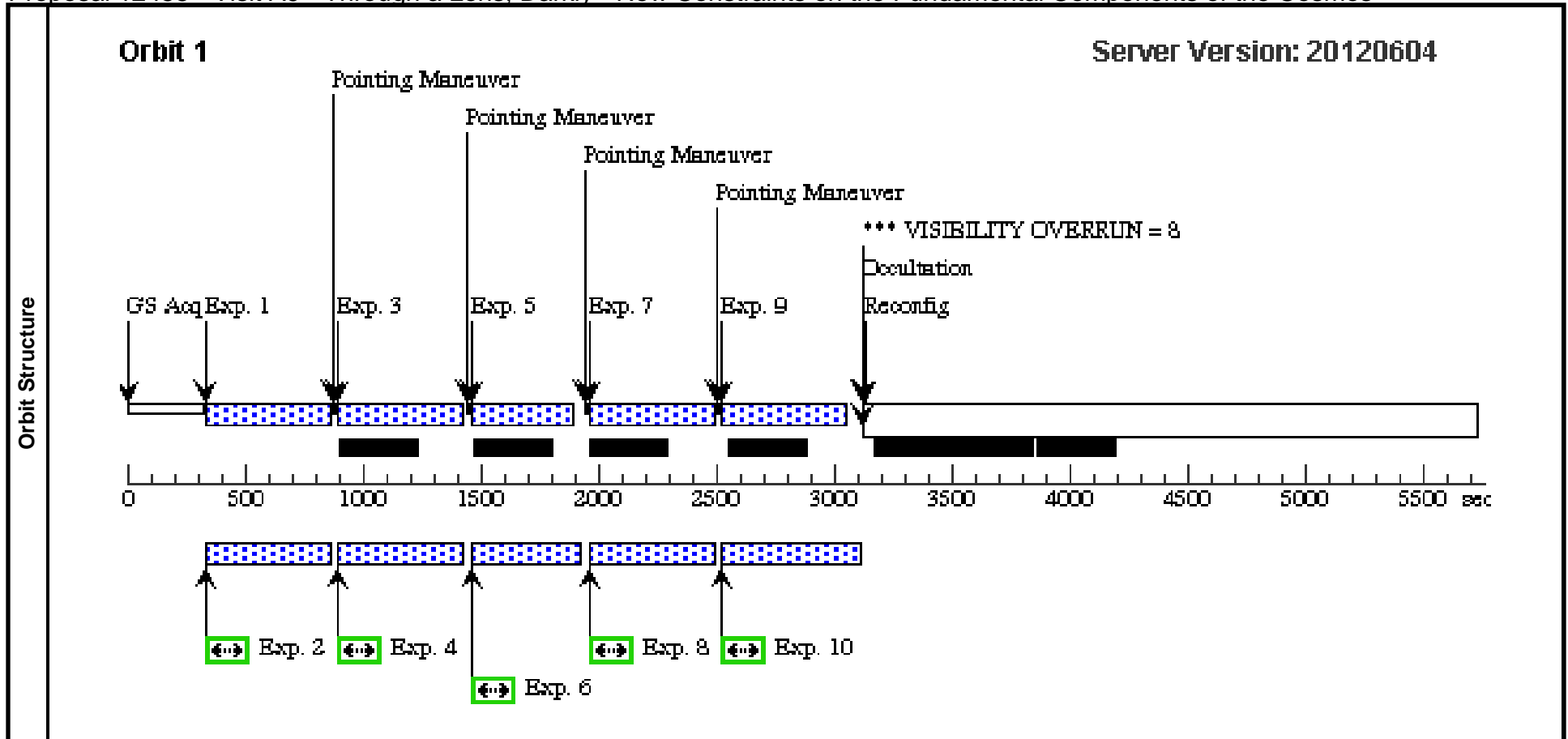
Visit	<b>Proposal 12455, Visit A8, failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; AFTER A0 BY 38 D TO 41 D <i>Comments: Visits A8-A9 represent epoch 4 (at orient 1) and should be taken concurrently</i>									
	Diagnostics	(Visit A8) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit A8) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
(3)	MACS1720-WFC3PAR1	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A8	525 Secs [==>525 Secs ]	[1]
	2		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=8		Prime + Parallel Group 1-2 in Visit A8	[==>]	[1]
	3		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit A8	507 Secs [==>507.0 Secs ]	[1]
	4		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A8	[==>]	[1]
	5		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit A8	551 Secs [==>453.0 Secs ]	[1]
	6		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A8	[==>]	[1]
	7		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit A8	564 Secs [==>522 Secs ]	[1]
	8		(3) MACS1720-WF C3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A8	400 Secs [==>616 Secs ]	[1]



Proposal 12455 - Visit A9 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:41 GMT 2012

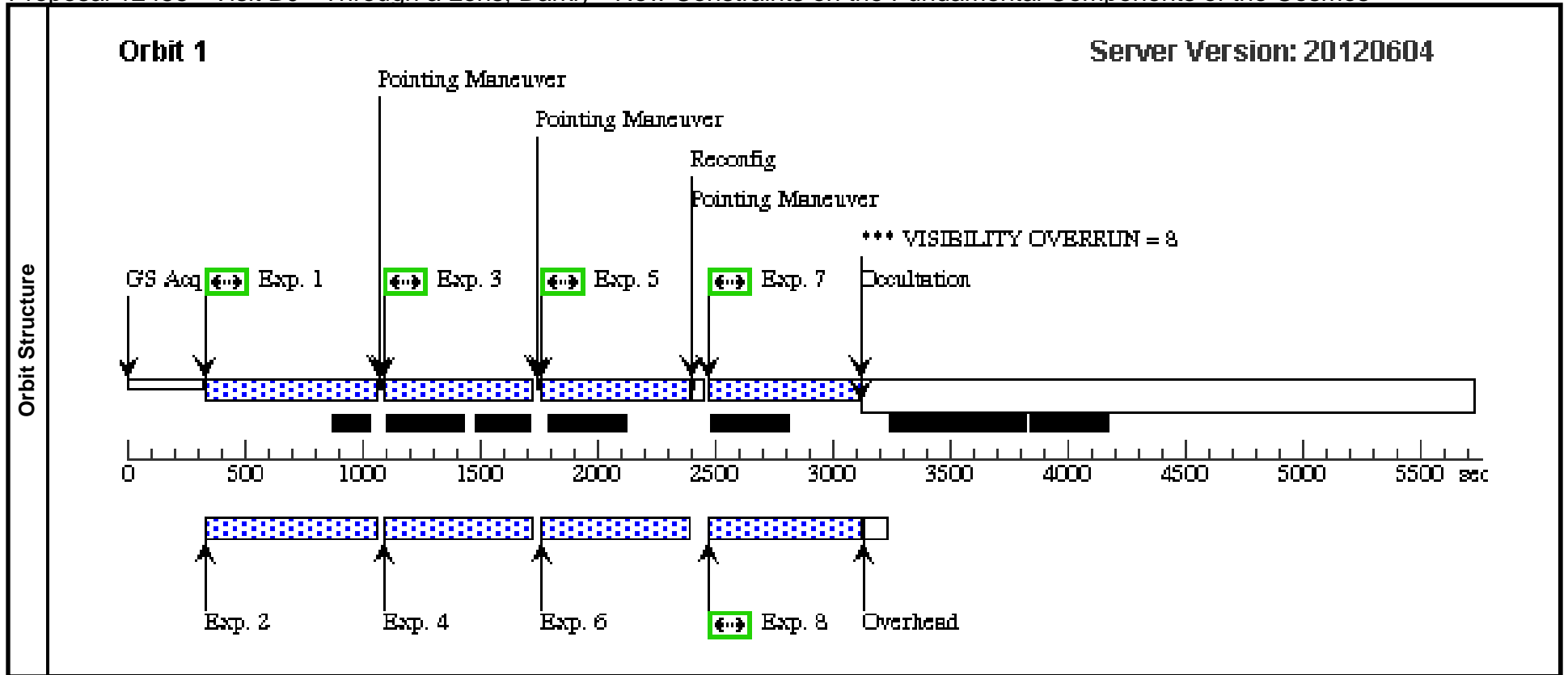
Visit	<b>Proposal 12455, Visit A9, failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS A0; SEQ A8,A9 WITHIN 1.2 Orbits <i>Comments: Visits A8-A9 represent epoch 4 (at orient 1) and should be taken concurrently</i>									
	Diagnostics	(Visit A9) Warning (Orbit Planner): PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME (Visit A9) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit A9) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS			
	(2)	MACS1720-ACSPAR1	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit A9	[==>]	[1]
	2		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit A9	525 Secs [==>325.0 Secs ]	[1]
	3		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -1.1517 5,0.42385	Prime + Parallel Group 3-4 in Visit A9	[==>]	[1]
	4		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit A9	607 Secs [==>407 Secs ]	[1]
	5		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG -0.813,- 0.30275	Prime + Parallel Group 5-6 in Visit A9	[==>]	[1]
	6		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit A9	582 Secs [==>339 Secs ]	[1]
	7		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.33875, -0.1211	Prime + Parallel Group 7-8 in Visit A9	[==>]	[1]
	8		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit A9	587 Secs [==>407.0 Secs ]	[1]
	9		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.813,- 0.30275	Prime + Parallel Group 9-10 in Visit A9	[==>]	[1]
10		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit A9	587 Secs [==>445 Secs ]	[1]	



Proposal 12455 - Visit B0 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:42 GMT 2012

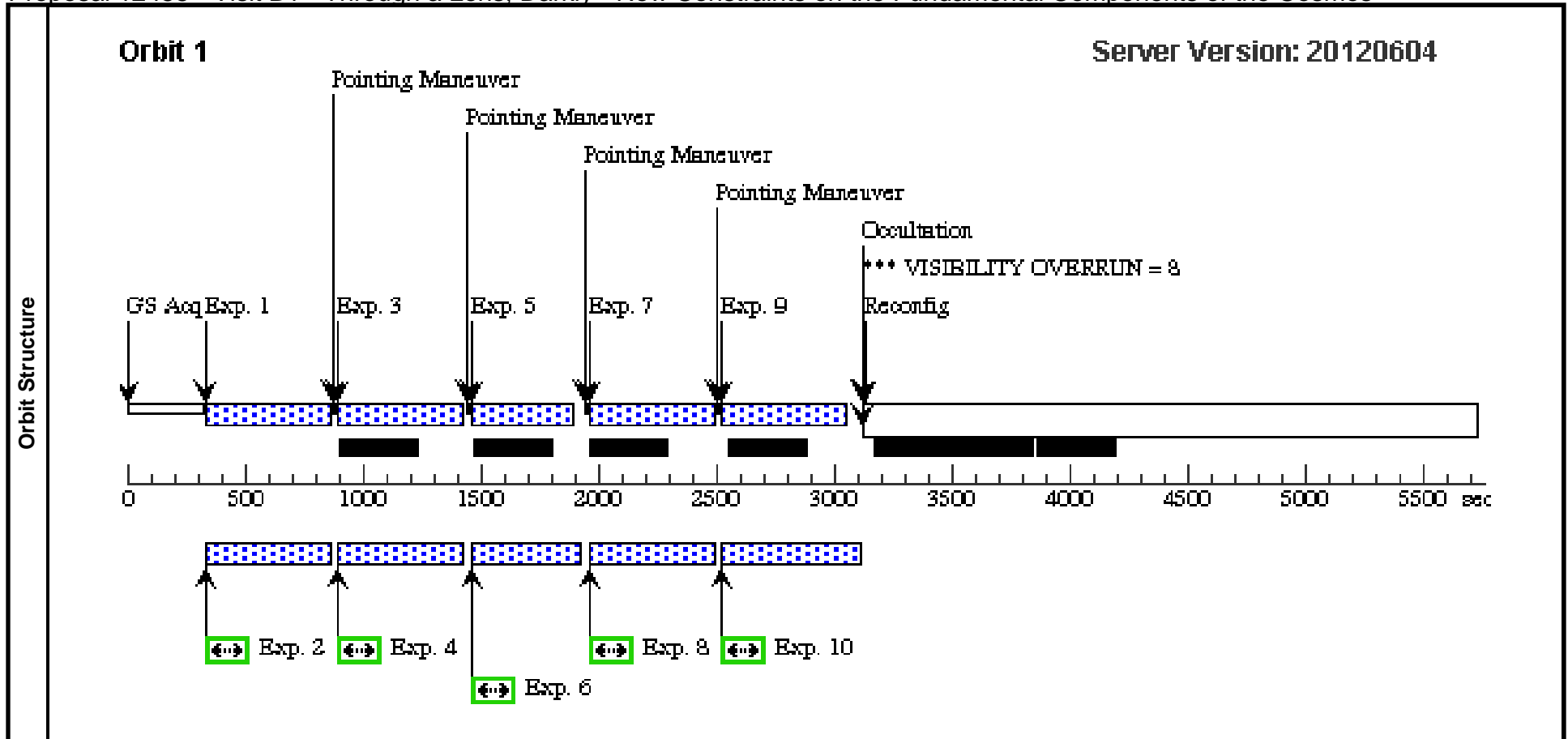
Visit	<b>Proposal 12455, Visit B0, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; ORIENT 29D TO 31D FROM A0 <i>Comments: Visits B0-B1 represent epoch 1 (at orient 2) and should be taken concurrently</i>									
	Diagnostics	(Visit B0) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit B0) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
(5)	MACS1720-WFC3PAR2	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit B0	525 Secs [==>525 Secs ]	[1]
	2		(5) MACS1720-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=8		Prime + Parallel Group 1-2 in Visit B0	[==>]	[1]
	3		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG 0.0741,0.1295	Prime + Parallel Group 3-4 in Visit B0	507 Secs [==>507.0 Secs ]	[1]
	4		(5) MACS1720-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B0	[==>]	[1]
	5		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.1729,-0.0848	Prime + Parallel Group 5-6 in Visit B0	551 Secs [==>485 Secs ]	[1]
	6		(5) MACS1720-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit B0	[==>]	[1]
	7		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.247,0.2423	Prime + Parallel Group 7-8 in Visit B0	564 Secs [==>522 Secs ]	[1]
	8		(5) MACS1720-WF C3PAR2	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit B0	400 Secs [==>616 Secs ]	[1]



Proposal 12455 - Visit B1 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:43 GMT 2012

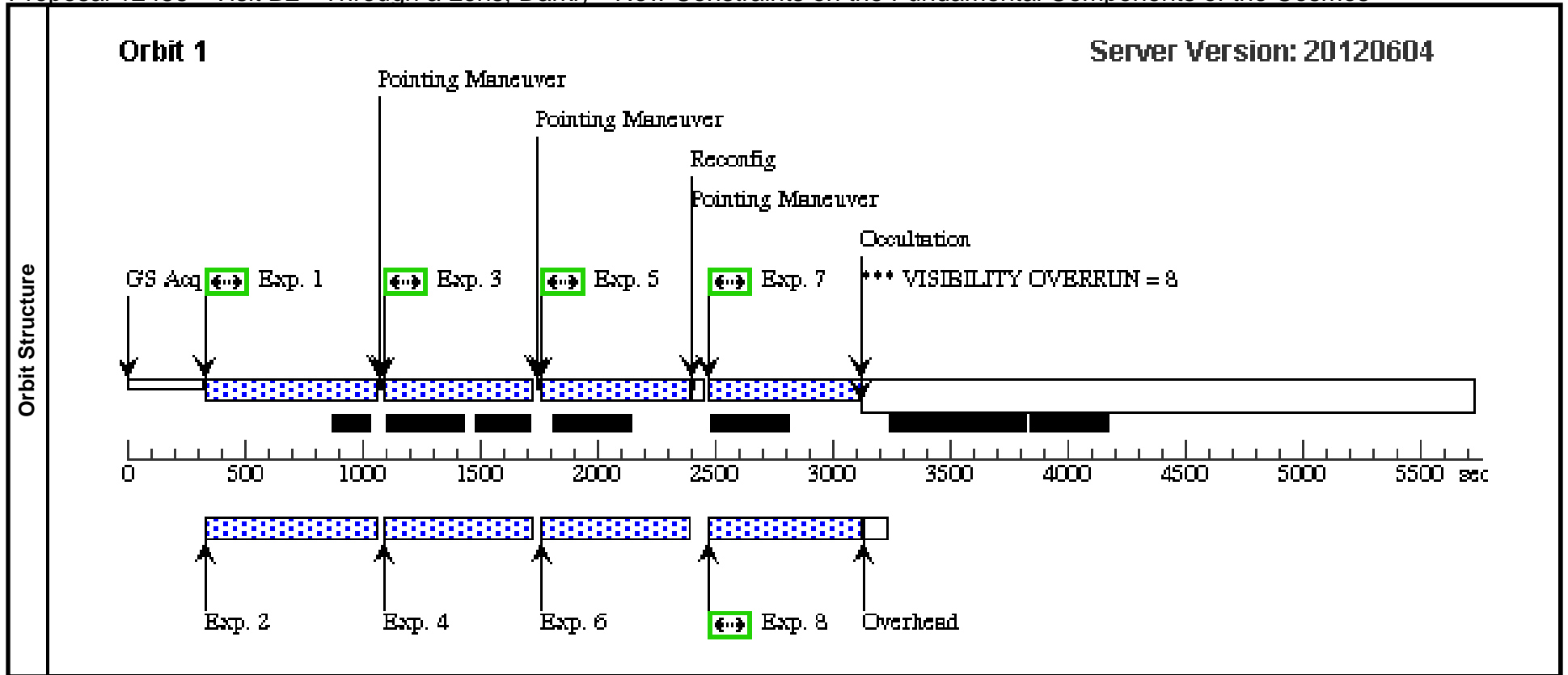
Visit	<b>Proposal 12455, Visit B1, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS B0; SEQ B0,B1 WITHIN 1.2 Orbits <i>Comments: Visits B0-B1 represent epoch 1 (at orient 2) and should be taken concurrently</i>									
	Diagnostics	(Visit B1) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit B1) Warning (Orbit Planner): PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME (Visit B1) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
(4)	MACS1720-ACSPAR2	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit B1	[==>]	[1]
	2		(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit B1	525 Secs [==>325.0 Secs ]	[1]
	3		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.20325, -0.18165	Prime + Parallel Group 3-4 in Visit B1	[==>]	[1]
	4		(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit B1	607 Secs [==>407 Secs ]	[1]
	5		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG 0.47425, 0.6055	Prime + Parallel Group 5-6 in Visit B1	[==>]	[1]
	6		(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit B1	582 Secs [==>339 Secs ]	[1]
	7		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.271,0 .42385	Prime + Parallel Group 7-8 in Visit B1	[==>]	[1]
	8		(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit B1	587 Secs [==>407.0 Secs ]	[1]
	9		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.47425, 0.6055	Prime + Parallel Group 9-10 in Visit B1	[==>]	[1]
10		(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit B1	587 Secs [==>445 Secs ]	[1]	



Proposal 12455 - Visit B2 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:45 GMT 2012

Visit	<b>Proposal 12455, Visit B2, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS B0; AFTER B0 BY 12 D TO 14 D <i>Comments: Visits B2-B3 represent epoch 2 (at orient 2) and should be taken concurrently</i>									
	Diagnostics	(Visit B2) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100. (Visit B2) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
(5)	MACS1720-WFC3PAR2	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit B2	525 Secs [==>525 Secs ]	[1]
	2		(5) MACS1720-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=8		Prime + Parallel Group 1-2 in Visit B2	[==>]	[1]
	3		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit B2	507 Secs [==>507.0 Secs ]	[1]
	4		(5) MACS1720-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B2	[==>]	[1]
	5		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F606W		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit B2	551 Secs [==>466 Secs ]	[1]
	6		(5) MACS1720-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit B2	[==>]	[1]
	7		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F606W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit B2	564 Secs [==>522 Secs ]	[1]
	8		(5) MACS1720-WF C3PAR2	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit B2	400 Secs [==>616 Secs ]	[1]



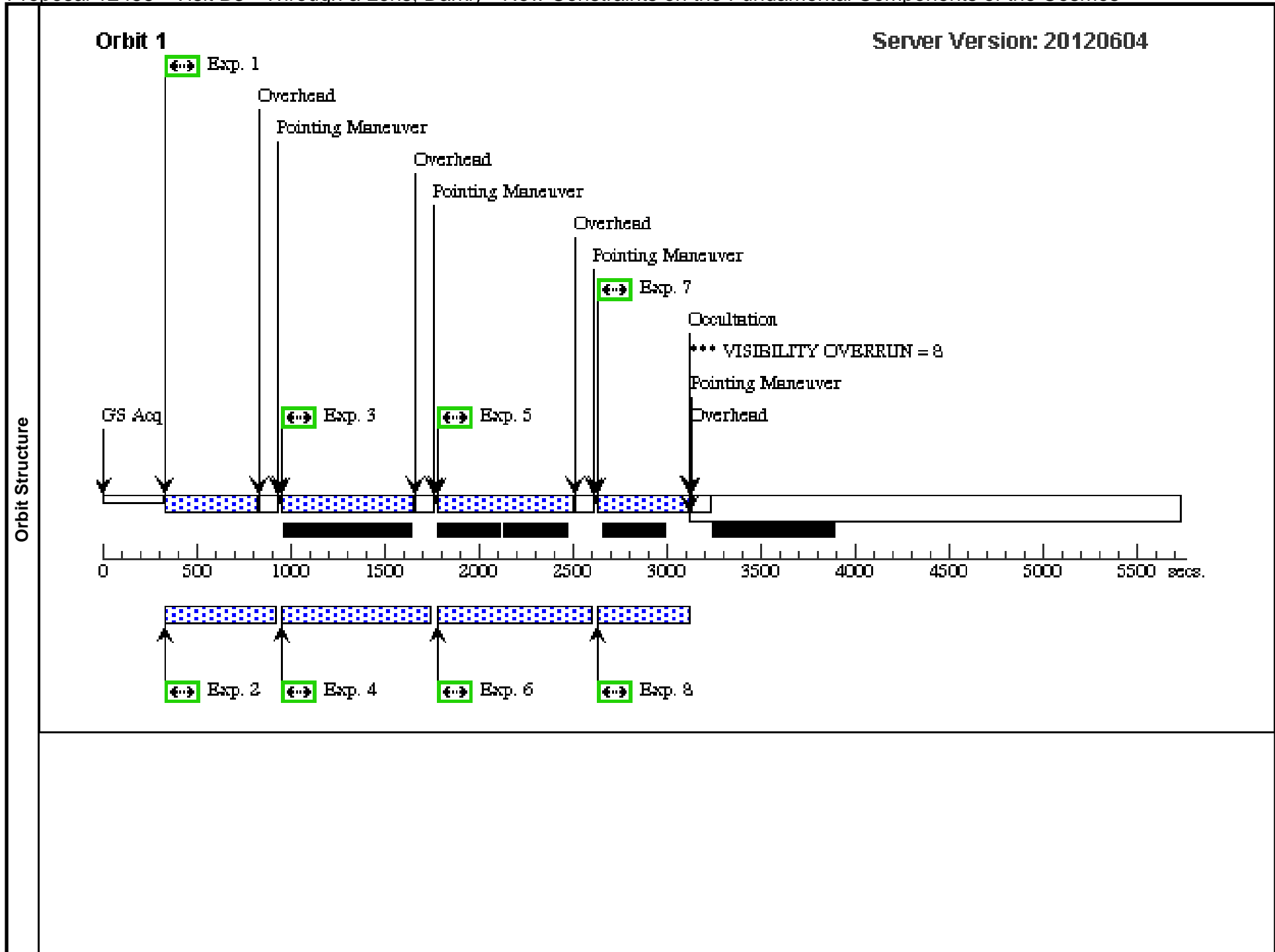
Proposal 12455 - Visit B3 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:46 GMT 2012

<b>Visit</b>	<p><b>Proposal 12455, Visit B3, completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SCHED 80%; SAME ORIENT AS B0; SEQ B2,B3 WITHIN 1.2 Orbits</p> <p><i>Comments: Visits B2-B3 represent epoch 2 (at orient 2) and should be taken concurrently</i></p>					
	<p>(Visit B3) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.</p> <p>(Visit B3) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit B3) Warning (Orbit Planner): VISIBILITY OVERRUN</p>					
<b>Diagnosics</b>						
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS
	(4)	MACS1720-ACSPAR2	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS

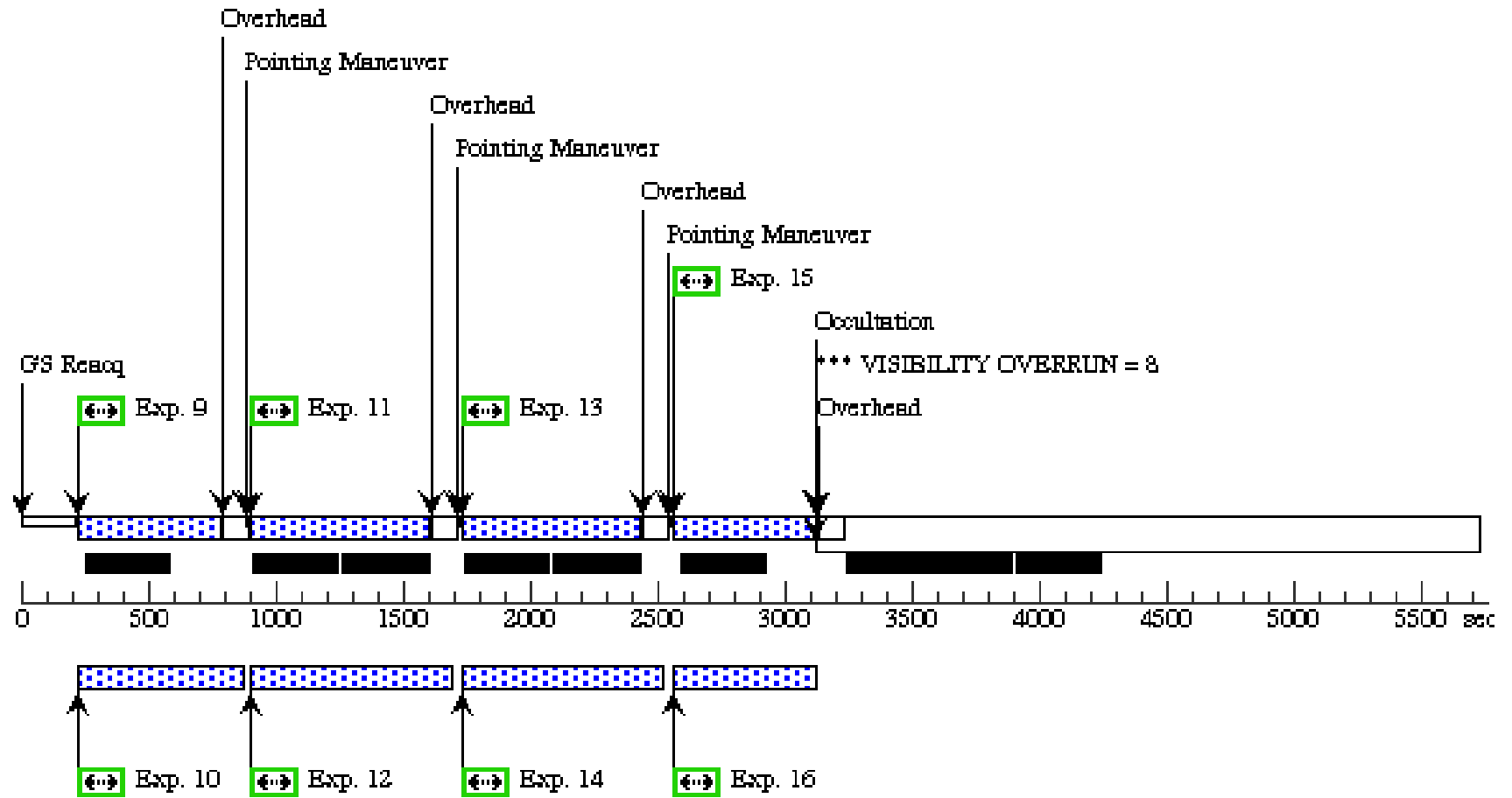
Proposal 12455 - Visit B3 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG 0,0; GS ACQ SCENARI O.BASE1B3	Prime + Parallel Gro up 1-2 in Visit B3	600 Secs [==>461 Secs ]	[1]
	2		(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 1-2 in Visit B3	600 Secs [==>381 Secs ]	[1]
	3		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Gro up 3-4 in Visit B3	600 Secs [==>699.0 Secs ]	[1]
	4		(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 3-4 in Visit B3	600 Secs [==>669 Secs ]	[1]
	5		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Gro up 5-6 in Visit B3	600 Secs [==>699.0 Secs ]	[1]
	6		(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 5-6 in Visit B3	600 Secs [==>692 Secs ]	[1]
	7		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Gro up 7-8 in Visit B3	600 Secs [==>490 Secs ]	[1]
	8		(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Gro up 7-8 in Visit B3	600 Secs [==>339 Secs ]	[1]
	9		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit B3	600 Secs [==>558 Secs ]	[2]
	10		(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 9-10 in Visit B3	600 Secs [==>502 Secs ]	[2]
	11		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Gro up 11-12 in Visit B3	600 Secs [==>699.0 Secs ]	[2]
	12		(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 11-12 in Visit B3	600 Secs [==>669.0 Secs ]	[2]
	13		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Gro up 13-14 in Visit B3	600 Secs [==>699.0 Secs ]	[2]
	14		(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 13-14 in Visit B3	600 Secs [==>669.0 Secs ]	[2]
	15		(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Gro up 15-16 in Visit B3	600 Secs [==>559 Secs ]	[2]
16		(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Gro up 15-16 in Visit B3	600 Secs [==>408 Secs ]	[2]	



Orbit 2

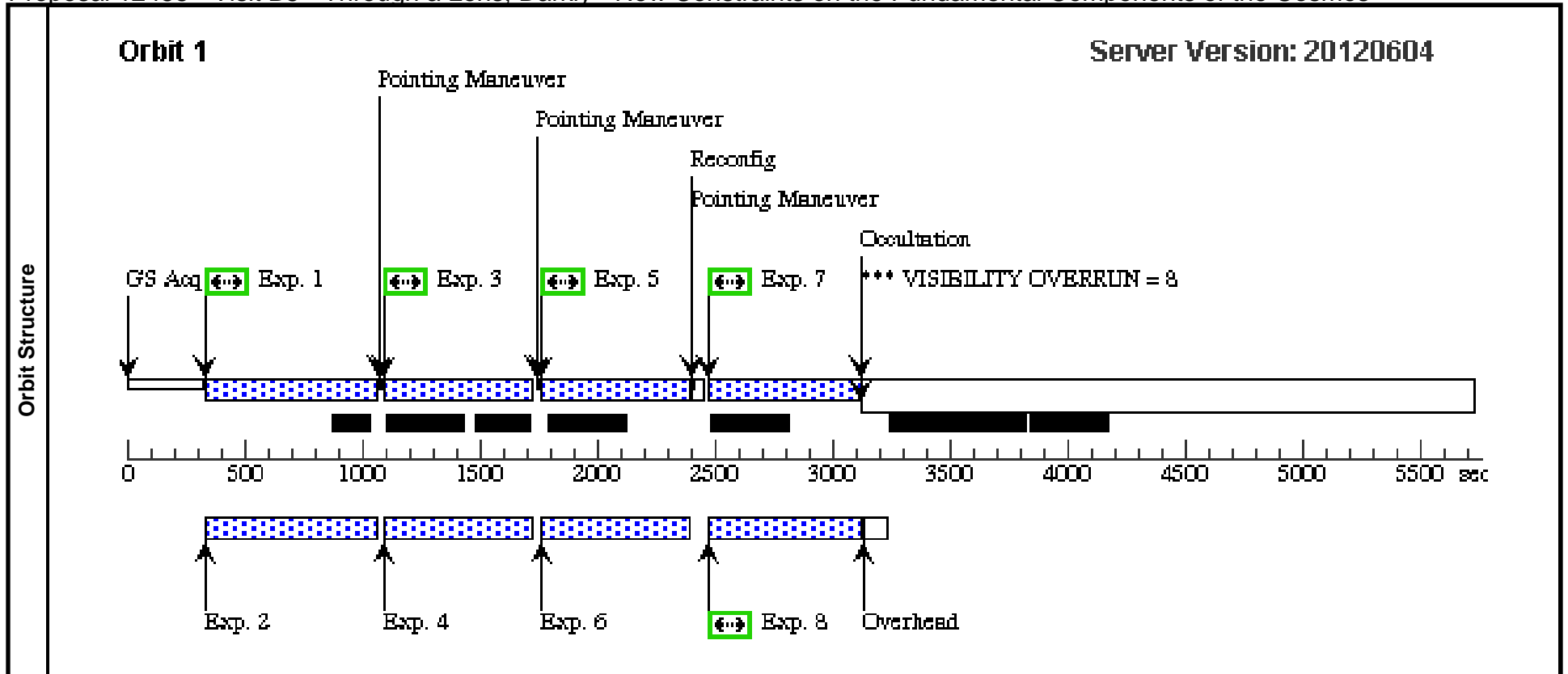
Server Version: 20120604



Proposal 12455 - Visit B5 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:48 GMT 2012

<b>Visit</b>	<b>Proposal 12455, Visit B5, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS B0; AFTER B0 BY 26 D TO 28 D <i>Comments: Visits B5-B6 represent epoch 3 (at orient 2) and should be taken concurrently</i>									
	(Visit B5) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit B5) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
(5)	MACS1720-WFC3PAR2	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS					
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit B5	525 Secs [==>525 Secs ]	[1]
	2		(5) MACS1720-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=8		Prime + Parallel Group 1-2 in Visit B5	[==>]	[1]
	3		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit B5	507 Secs [==>507.0 Secs ]	[1]
	4		(5) MACS1720-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B5	[==>]	[1]
	5		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit B5	551 Secs [==>486 Secs ]	[1]
	6		(5) MACS1720-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit B5	[==>]	[1]
	7		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit B5	564 Secs [==>522 Secs ]	[1]
8		(5) MACS1720-WF C3PAR2	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit B5	400 Secs [==>616 Secs ]	[1]	



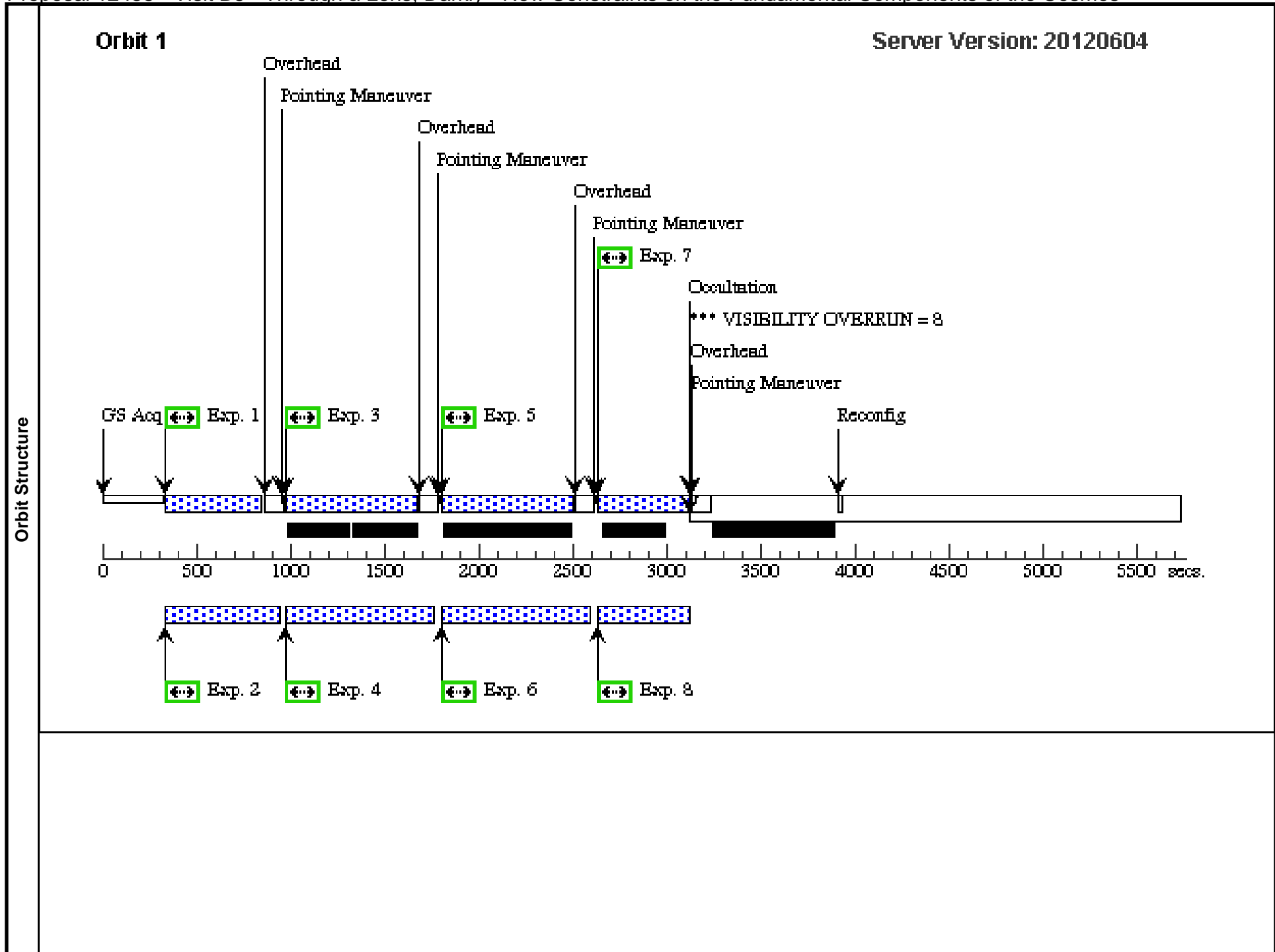
Proposal 12455 - Visit B6 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

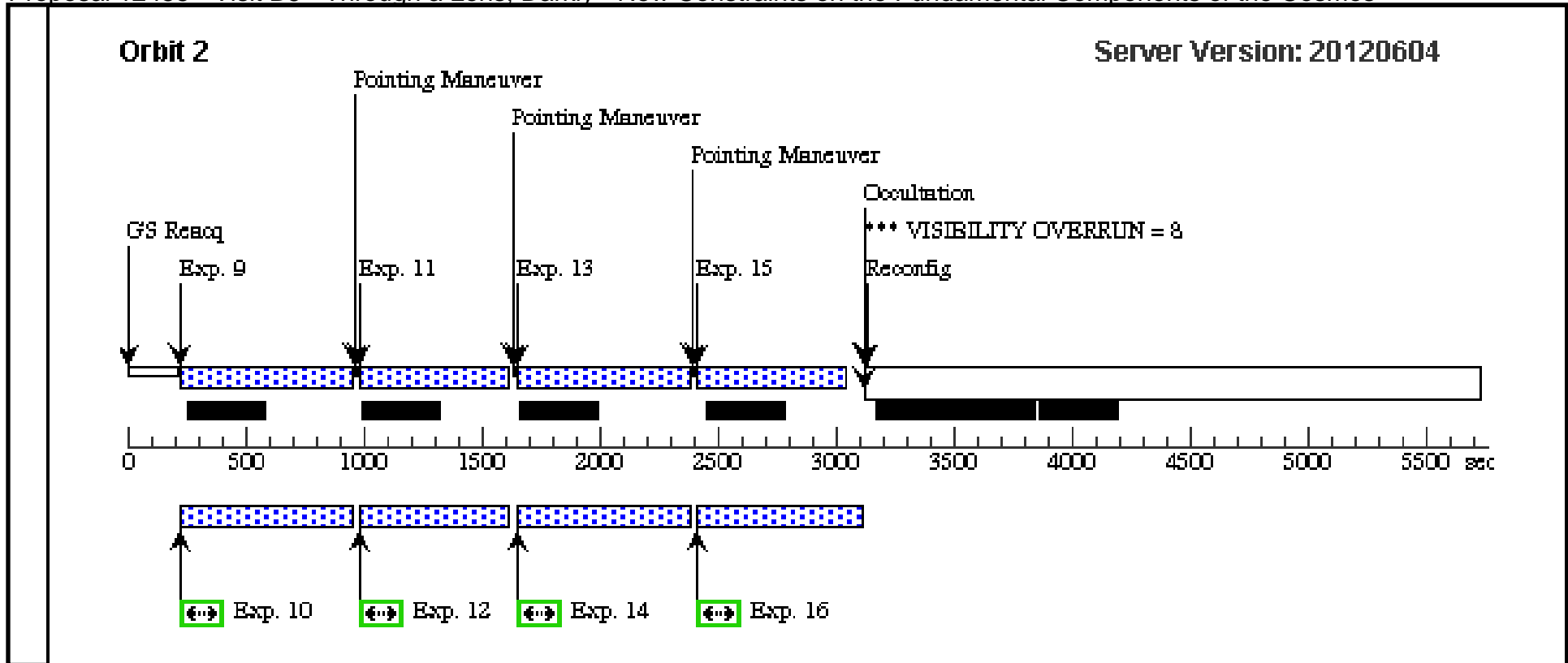
Wed Jul 04 02:19:49 GMT 2012

<b>Visit</b>	<p><b>Proposal 12455, Visit B6, completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC</p> <p>Special Requirements: SCHED 80%; SAME ORIENT AS B0; SEQ B5,B6 WITHIN 1.2 Orbits</p> <p><i>Comments: Visits B5-B6 represent epoch 3 (at orient 2) and should be taken concurrently</i></p>					
	<p>(Visit B6) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit B6) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.</p> <p>(Visit B6) Warning (Orbit Planner): VISIBILITY OVERRUN</p> <p>(Visit B6) Warning (Orbit Planner): PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME</p>					
<b>Diagnosics</b>						
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS
	(4)	MACS1720-ACSPAR2	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS

Proposal 12455 - Visit B6 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Gro up 1-2 in Visit B6	600 Secs [==>484.0 Secs ]	[1]
	2	(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 1-2 in Visit B6	600 Secs [==>404.0 Secs ]	[1]
	3	(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0.0594,- 0.0552	Prime + Parallel Gro up 3-4 in Visit B6	600 Secs [==>699.0 Secs ]	[1]
	4	(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 3-4 in Visit B6	600 Secs [==>669 Secs ]	[1]
	5	(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0.1188,0 .06735	Prime + Parallel Gro up 5-6 in Visit B6	600 Secs [==>699.0 Secs ]	[1]
	6	(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 5-6 in Visit B6	600 Secs [==>669 Secs ]	[1]
	7	(1) MACS1720+353 6	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG -0.0594, 0.15395	Prime + Parallel Gro up 7-8 in Visit B6	600 Secs [==>490 Secs ]	[1]
	8	(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Gro up 7-8 in Visit B6	600 Secs [==>339 Secs ]	[1]
	9	(1) MACS1720+353 6	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0,0	Prime + Parallel Gro up 9-10 in Visit B6	[==>]	[2]
	10	(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 9-10 in Visit B6	525 Secs [==>581.0 Secs ]	[2]
	11	(1) MACS1720+353 6	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG -1.1517 5.042385	Prime + Parallel Gro up 11-12 in Visit B6	[==>]	[2]
	12	(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 11-12 in Visit B6	607 Secs [==>507.0 Secs ]	[2]
	13	(1) MACS1720+353 6	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.813,- 0.30275	Prime + Parallel Gro up 13-14 in Visit B6	[==>]	[2]
	14	(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Gro up 13-14 in Visit B6	481 Secs [==>607 Secs ]	[2]
	15	(1) MACS1720+353 6	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.33875, -0.1211	Prime + Parallel Gro up 15-16 in Visit B6	[==>]	[2]
	16	(4) MACS1720-ACS PAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Gro up 15-16 in Visit B6	576 Secs [==>553 Secs ]	[2]

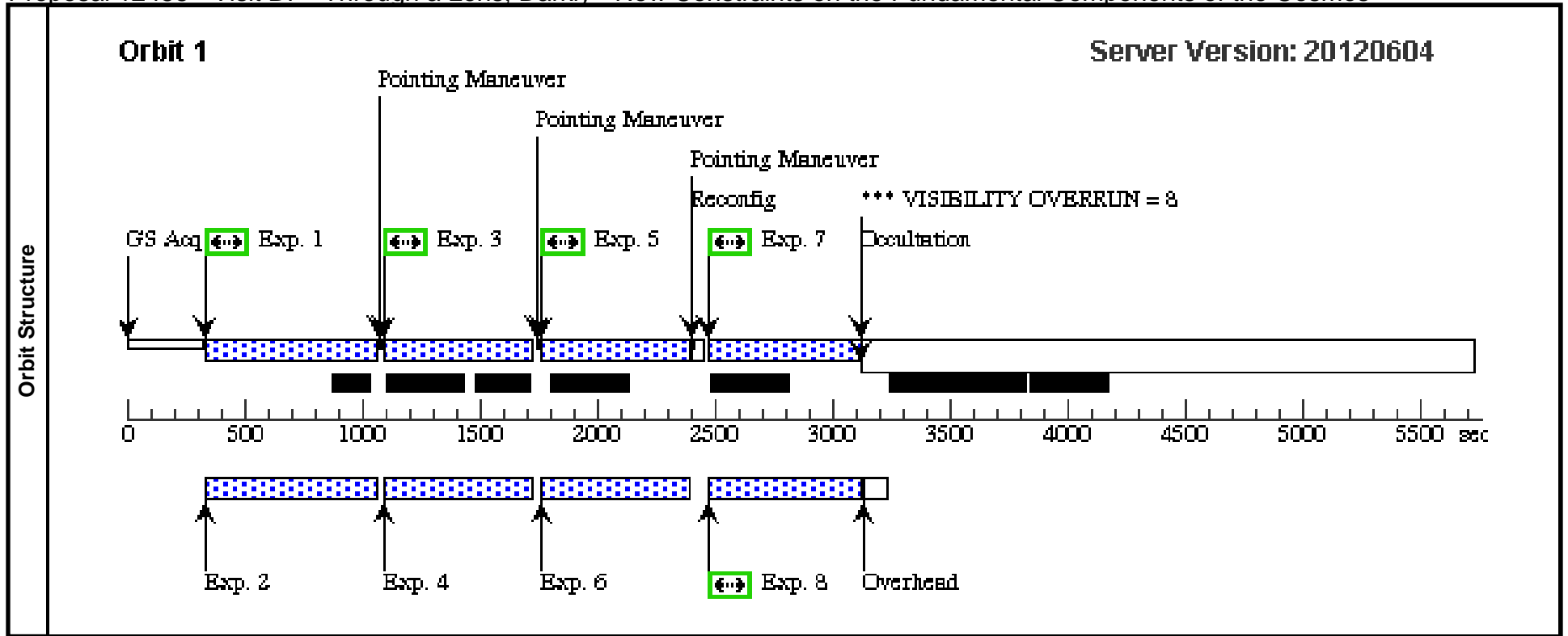




Proposal 12455 - Visit B7 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:52 GMT 2012

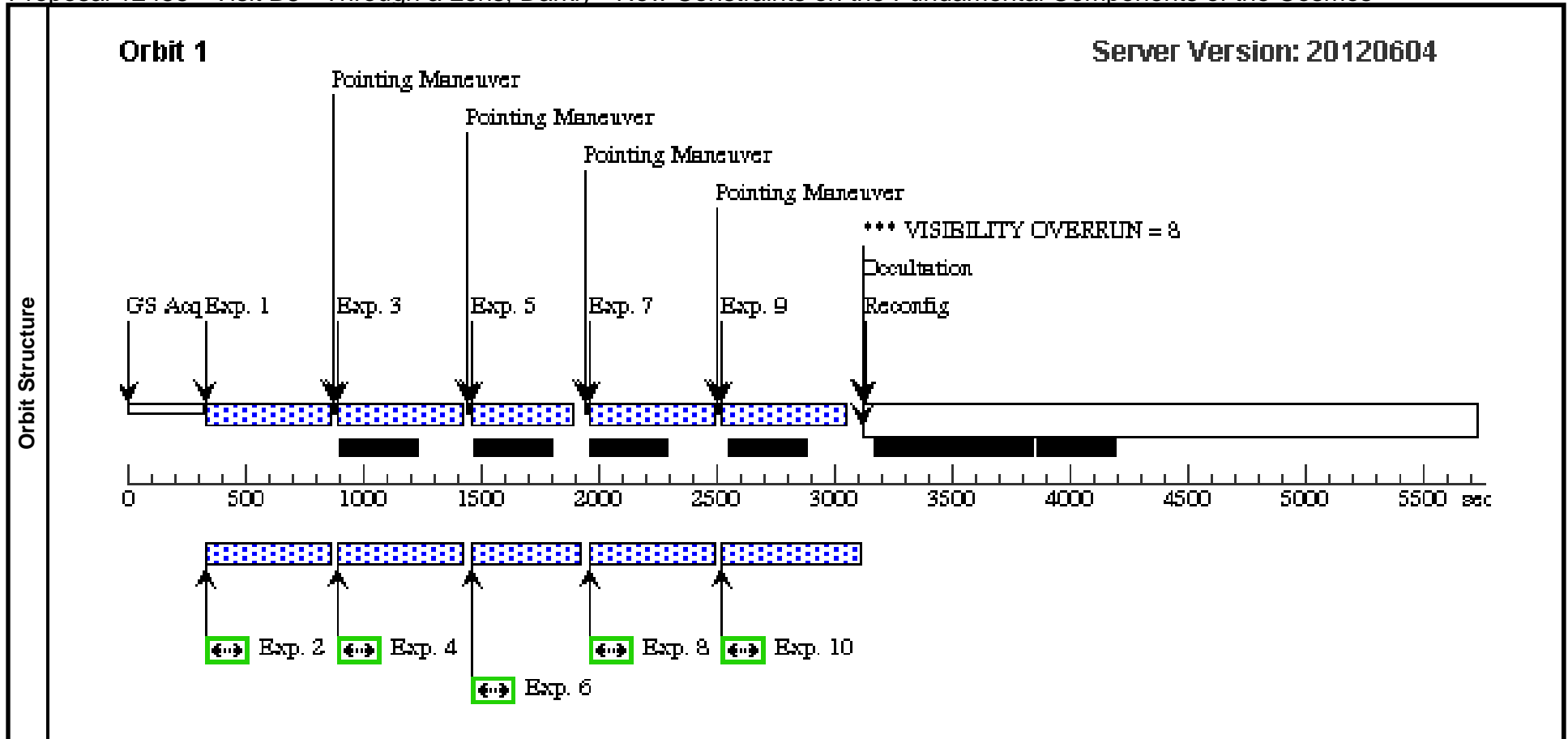
Visit	<b>Proposal 12455, Visit B7, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS B0; AFTER B0 BY 39 D TO 41 D Comments: Visits B7-B8 represent epoch 4 (at orient 2) and should be taken concurrently									
	Diagnostics	(Visit B7) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100. (Visit B7) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
(5)	MACS1720-WFC3PAR2	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F475W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit B7	525 Secs [==>525 Secs ]	[1]
	2		(5) MACS1720-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=8		Prime + Parallel Group 1-2 in Visit B7	[==>]	[1]
	3		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F475W		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit B7	507 Secs [==>507.0 Secs ]	[1]
	4		(5) MACS1720-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B7	[==>]	[1]
	5		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit B7	551 Secs [==>469.0 Secs ]	[1]
	6		(5) MACS1720-WF C3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit B7	[==>]	[1]
	7		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit B7	564 Secs [==>522 Secs ]	[1]
	8		(5) MACS1720-WF C3PAR2	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit B7	400 Secs [==>616 Secs ]	[1]



Proposal 12455 - Visit B8 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:53 GMT 2012

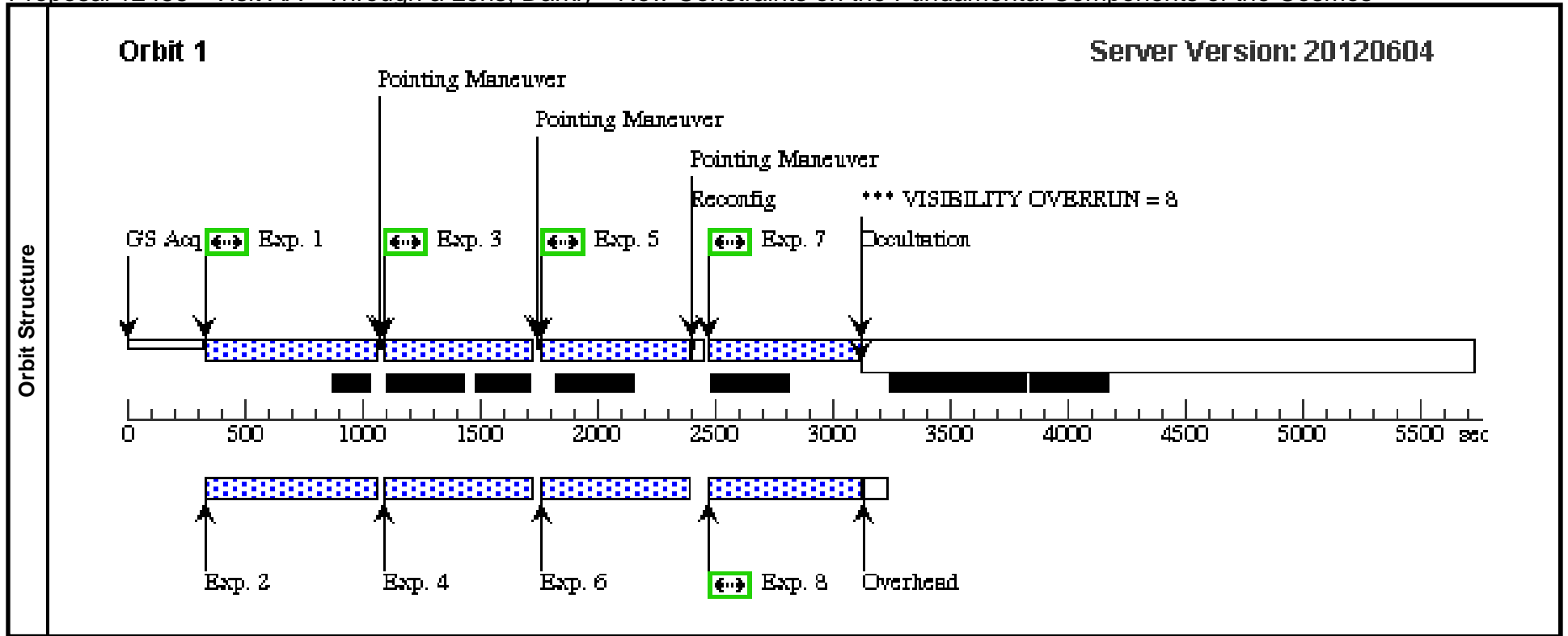
Visit	<b>Proposal 12455, Visit B8, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 80%; SAME ORIENT AS B0; SEQ B7,B8 WITHIN 1.2 Orbits <i>Comments: Visits B7-B8 represent epoch 4 (at orient 2) and should be taken concurrently</i>									
	Diagnostics	(Visit B8) Warning (Orbit Planner): PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME (Visit B8) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit B8) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS			
	(4)	MACS1720-ACSPAR2	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit B8	[==>]	[1]
	2		(4) MACS1720-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit B8	525 Secs [==>325.0 Secs ]	[1]
	3		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -1.1517 5,0.42385	Prime + Parallel Group 3-4 in Visit B8	[==>]	[1]
	4		(4) MACS1720-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit B8	607 Secs [==>407 Secs ]	[1]
	5		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG -0.813,- 0.30275	Prime + Parallel Group 5-6 in Visit B8	[==>]	[1]
	6		(4) MACS1720-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit B8	582 Secs [==>339 Secs ]	[1]
	7		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.33875, -0.1211	Prime + Parallel Group 7-8 in Visit B8	[==>]	[1]
	8		(4) MACS1720-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit B8	587 Secs [==>407.0 Secs ]	[1]
	9		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.813,- 0.30275	Prime + Parallel Group 9-10 in Visit B8	[==>]	[1]
10		(4) MACS1720-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit B8	587 Secs [==>445 Secs ]	[1]	



Proposal 12455 - Visit AA - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:54 GMT 2012

Visit	<b>Proposal 12455, Visit AA, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SCHED 80%; ORIENT 190D TO 190 D <i>Comments: Visits A8-A9 represent epoch 4 (at orient 1) and should be taken concurrently This is a repeat of visit A8 which failed due to a safing.</i>									
	Diagnostics	(Visit AA) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100. (Visit AA) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
(3)	MACS1720-WFC3PAR1	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit AA	525 Secs [==>525 Secs ]	[1]
	2		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS 100; NSAMP=8		Prime + Parallel Group 1-2 in Visit AA	[==>]	[1]
	3		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.3211,0 .7917	Prime + Parallel Group 3-4 in Visit AA	507 Secs [==>507.0 Secs ]	[1]
	4		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 50; NSAMP=13		Prime + Parallel Group 3-4 in Visit AA	[==>]	[1]
	5		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 1.0868,0 .5573	Prime + Parallel Group 5-6 in Visit AA	551 Secs [==>453.0 Secs ]	[1]
	6		(3) MACS1720-WF C3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7		Prime + Parallel Group 5-6 in Visit AA	[==>]	[1]
	7		(1) MACS1720+3536	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG -0.3211, -0.1742	Prime + Parallel Group 7-8 in Visit AA	564 Secs [==>522 Secs ]	[1]
	8		(3) MACS1720-WF C3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit AA	400 Secs [==>616 Secs ]	[1]



Proposal 12455 - Visit AB - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Wed Jul 04 02:19:55 GMT 2012

Visit	<b>Proposal 12455, Visit AB, completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 80%; ORIENT 190D TO 190 D; SEQ AA,AB WITHIN 1.2 Orbits <i>Comments: Visits A8-A9 represent epoch 4 (at orient 1) and should be taken concurrently. This is a copy of visit A9 which failed due to a safing.</i>									
	Diagnostics	(Visit AB) Warning (Orbit Planner): PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME (Visit AB) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit AB) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	MACS1720+3536	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS			
	(2)	MACS1720-ACSPAR1	RA: 17 20 16.7800 (260.0699167d) Dec: +35 36 26.50 (35.60736d) Equinox: J2000		V=15	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in Visit AB	[==>]	[1]
	2		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit AB	525 Secs [==>325.0 Secs ]	[1]
	3		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -1.1517 5,0.42385	Prime + Parallel Group 3-4 in Visit AB	[==>]	[1]
	4		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit AB	607 Secs [==>407 Secs ]	[1]
	5		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=5	POS TARG -0.813,- 0.30275	Prime + Parallel Group 5-6 in Visit AB	[==>]	[1]
	6		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit AB	582 Secs [==>339 Secs ]	[1]
	7		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG 0.33875, -0.1211	Prime + Parallel Group 7-8 in Visit AB	[==>]	[1]
	8		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit AB	587 Secs [==>407.0 Secs ]	[1]
	9		(1) MACS1720+3536	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 100; NSAMP=6	POS TARG -0.813,- 0.30275	Prime + Parallel Group 9-10 in Visit AB	[==>]	[1]
10		(2) MACS1720-ACS PAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit AB	587 Secs [==>445 Secs ]	[1]	

