



16307 - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host stars

Cycle: 28, 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) HD-185603B WAVE	STIS/CCD	5	22-Jul-2021 10:00:18.0	yes
02	(2) HAT-P-70B WAVE	STIS/CCD	5	22-Jul-2021 10:00:23.0	yes
12	(2) HAT-P-70B WAVE	STIS/CCD	5	22-Jul-2021 10:00:28.0	yes
03	(1) HD-185603B	WFC3/IR	5	22-Jul-2021 10:00:52.0	yes
13	(1) HD-185603B	WFC3/IR	5	22-Jul-2021 10:01:18.0	yes
04	(2) HAT-P-70B	WFC3/IR	5	22-Jul-2021 10:01:32.0	yes

30 Total Orbits Used

ABSTRACT

Ultra hot Jupiters are unique planetary objects that have a dayside temperature exceeding 2200K due to intense irradiation from the host star. An important aspect hereby is the spectral type of the host star, which determines the wavelength range at which most of the stellar radiation is emitted. This in turn impacts the efficiency of the planetary atmosphere to absorb the incoming stellar flux. As most of the observed ultra hot Jupiters orbit F/G stars, the parameter space of planets around A-type stars has not been explored sufficiently to be able to empirically verify this theoretical prediction. We propose to observe two recently discovered ultra hot Jupiters that orbit A-type stars to study how hot stars can affect the thermal structure and atmospheric composition of the planet.

OBSERVING DESCRIPTION

Reduced-gyro operations have no impact on this program. Schedulability is higher than 70 for all 4 visits and required spatial scan speed is less than 5 arcsec/sec.

Proposal 16307 - KELT-20b STIS-transit (01) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host st...

Visit	Proposal 16307, KELT-20b STIS-transit (01), completed Thu Jul 22 14:01:33 GMT 2021 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 90%; Period 3.474119 D AND ZERO-PHASE HJD2457909.5906					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		HD-185603B	RA: 19 38 38.7390 (294.6614125d) Dec: +31 13 9.12 (31.21920d) Equinox: J2000	Proper Motion RA: 3.0956278483550275 mas/yr Proper Motion Dec: -6.157331056711856 mas/yr Epoch of Position: 2015.5	V=7.58	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[EXTRA-SOLAR PLANET]						

Proposal 16307 - KELT-20b STIS-transit (01) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host st...

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Stare (STIS.ta.147 2487)	(1) HD-185603B	STIS/CCD, ACQ, F28X500II	MIRROR		PHASE 0.9582026 TO 0.9606013	Sequence 1-3 Non-Int in KELT-20b STIS-transit (01)	1 Secs (1 Secs) [==>]	[1]
2		(1) HD-185603B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128; WAVECAL=NO		Sequence 1-3 Non-Int in KELT-20b STIS-transit (01)	170 Secs X 11 (1903 Secs) [==>173.0 Secs (Copy 1)] [==>173.0 Secs (Copy 2)] [==>173.0 Secs (Copy 3)] [==>173.0 Secs (Copy 4)] [==>173.0 Secs (Copy 5)] [==>173.0 Secs (Copy 6)] [==>173.0 Secs (Copy 7)] [==>173.0 Secs (Copy 8)] [==>173.0 Secs (Copy 9)] [==>173.0 Secs (Copy 10)] [==>173.0 Secs (Copy 11)]	[1]
3	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1	G430M 5216 A			Sequence 1-3 Non-Int in KELT-20b STIS-transit (01)	[==>]	[1]
4		(1) HD-185603B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; WAVECAL=NO; SIZEAXIS2=128		Sequence 4-5 Non-Int in KELT-20b STIS-transit (01)	170 Secs X 13 (2223 Secs) [==>171.0 Secs (Copy 1)] [==>171.0 Secs (Copy 2)] [==>171.0 Secs (Copy 3)] [==>171.0 Secs (Copy 4)] [==>171.0 Secs (Copy 5)] [==>171.0 Secs (Copy 6)] [==>171.0 Secs (Copy 7)] [==>171.0 Secs (Copy 8)] [==>171.0 Secs (Copy 9)] [==>171.0 Secs (Copy 10)] [==>171.0 Secs (Copy 11)] [==>171.0 Secs (Copy 12)] [==>171.0 Secs (Copy 13)]	[2]
5	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1	G430M 5216 A			Sequence 4-5 Non-Int in KELT-20b STIS-transit (01)	[==>]	[2]

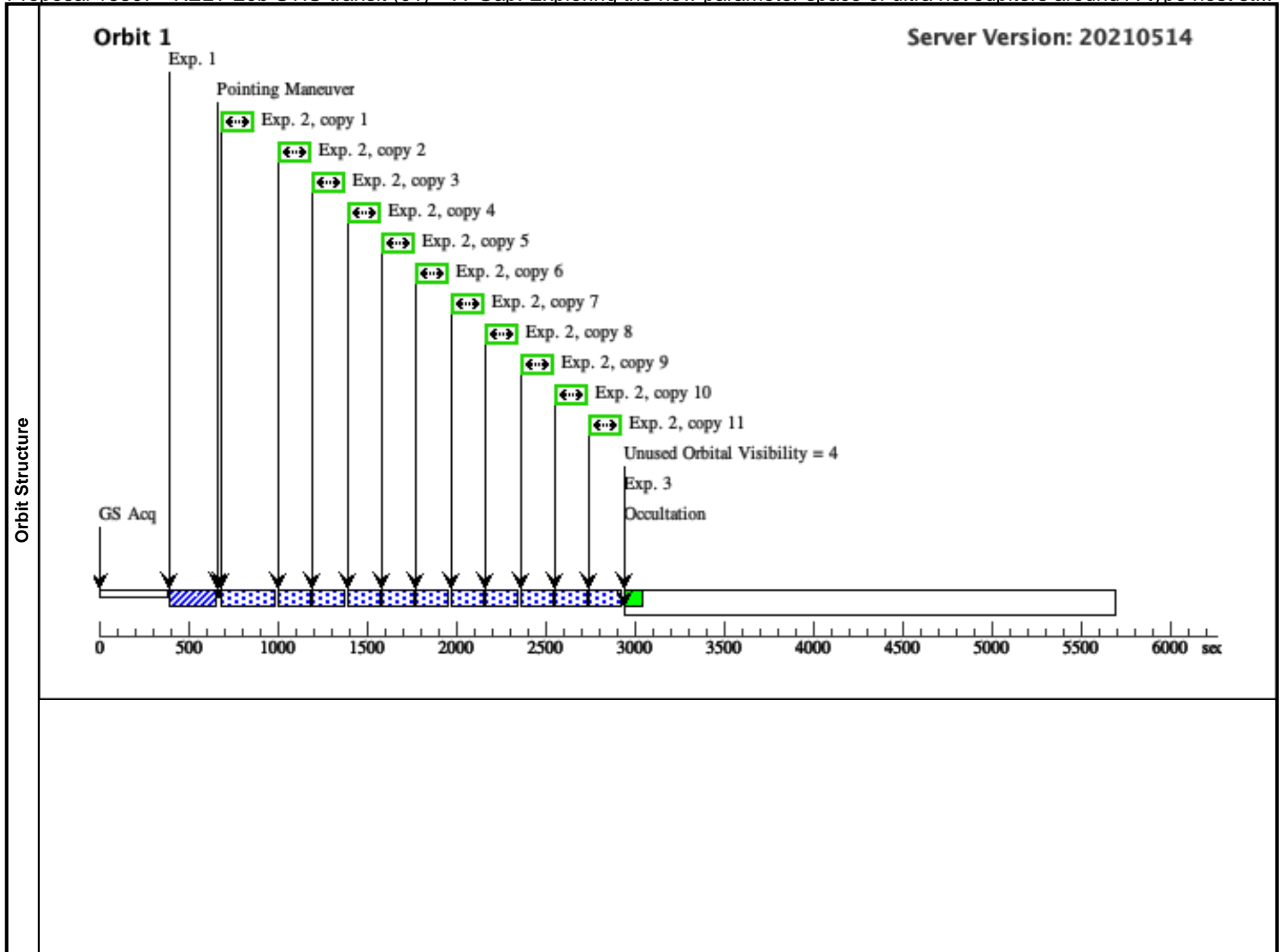
Exposures

Proposal 16307 - KELT-20b STIS-transit (01) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host st...

6	(1) HD-185603B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; WAVECAL=NO; SIZEAXIS2=128	Sequence 6-7 Non-Int in KELT-20b STIS-transit (01)	170 Secs X 13 (2223 Secs) [==>171.0 Secs (Copy 1)] [==>171.0 Secs (Copy 2)] [==>171.0 Secs (Copy 3)] [==>171.0 Secs (Copy 4)] [==>171.0 Secs (Copy 5)] [==>171.0 Secs (Copy 6)] [==>171.0 Secs (Copy 7)] [==>171.0 Secs (Copy 8)] [==>171.0 Secs (Copy 9)] [==>171.0 Secs (Copy 10)] [==>171.0 Secs (Copy 11)] [==>171.0 Secs (Copy 12)] [==>171.0 Secs (Copy 13)]	[3]
7	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1 G430M 5216 A		Sequence 6-7 Non-Int in KELT-20b STIS-transit (01)	[==>]	[3]
8	(1) HD-185603B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; WAVECAL=NO; SIZEAXIS2=128	Sequence 8-9 Non-Int in KELT-20b STIS-transit (01)	170 Secs X 13 (2223 Secs) [==>171.0 Secs (Copy 1)] [==>171.0 Secs (Copy 2)] [==>171.0 Secs (Copy 3)] [==>171.0 Secs (Copy 4)] [==>171.0 Secs (Copy 5)] [==>171.0 Secs (Copy 6)] [==>171.0 Secs (Copy 7)] [==>171.0 Secs (Copy 8)] [==>171.0 Secs (Copy 9)] [==>171.0 Secs (Copy 10)] [==>171.0 Secs (Copy 11)] [==>171.0 Secs (Copy 12)] [==>171.0 Secs (Copy 13)]	[4]
9	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1 G430M 5216 A		Sequence 8-9 Non-Int in KELT-20b STIS-transit (01)	[==>]	[4]

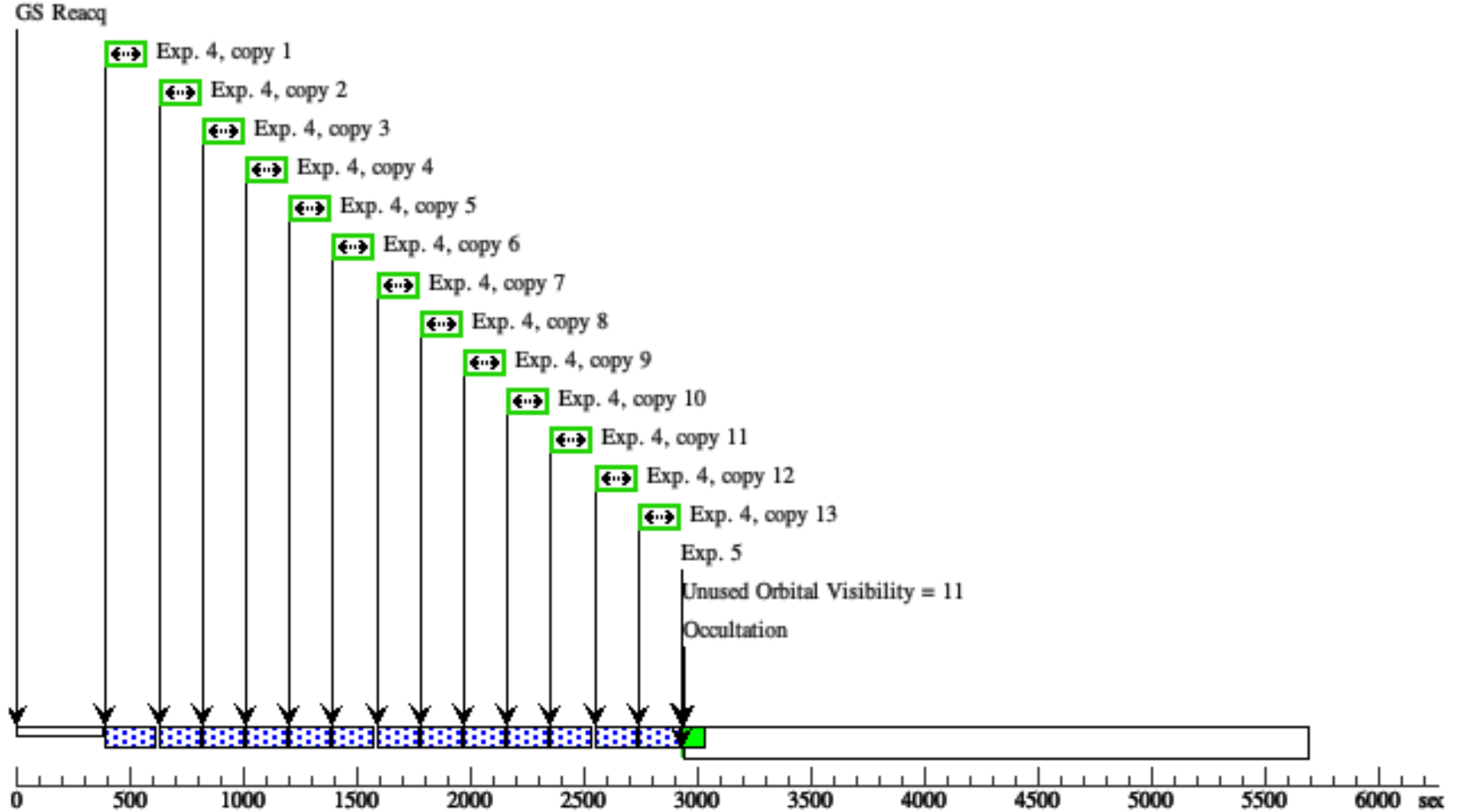
Proposal 16307 - KELT-20b STIS-transit (01) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host st...

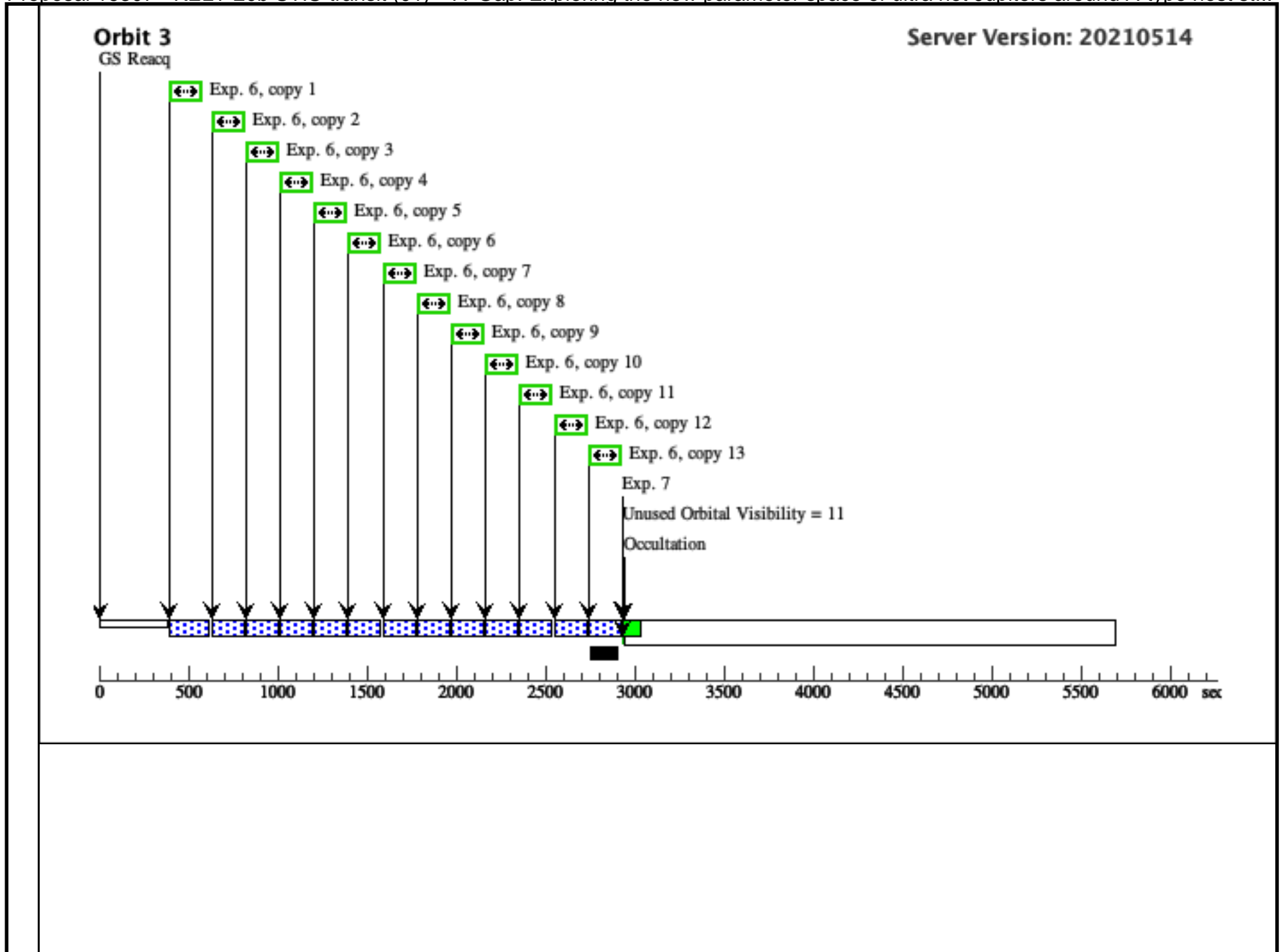
10	(1) HD-185603B	STIS/CCD, ACCUM, 52X2	G430M	GAIN=4; CR-SPLIT=NO; WAVECAL=NO; SIZEAXIS2=128	Sequence 10-11 Non -Int in KELT-20b ST IS-transit (01)	170 Secs X 13 (2223 Secs) [==>171.0 Secs (Copy 1)] [==>171.0 Secs (Copy 2)] [==>171.0 Secs (Copy 3)] [==>171.0 Secs (Copy 4)] [==>171.0 Secs (Copy 5)] [==>171.0 Secs (Copy 6)] [==>171.0 Secs (Copy 7)] [==>171.0 Secs (Copy 8)] [==>171.0 Secs (Copy 9)] [==>171.0 Secs (Copy 10)] [==>171.0 Secs (Copy 11)] [==>171.0 Secs (Copy 12)] [==>171.0 Secs (Copy 13)]	[5]
11	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1	G430M 5216 A	Sequence 10-11 Non -Int in KELT-20b ST IS-transit (01)	[==>]	[5]



Orbit 2

Server Version: 20210514

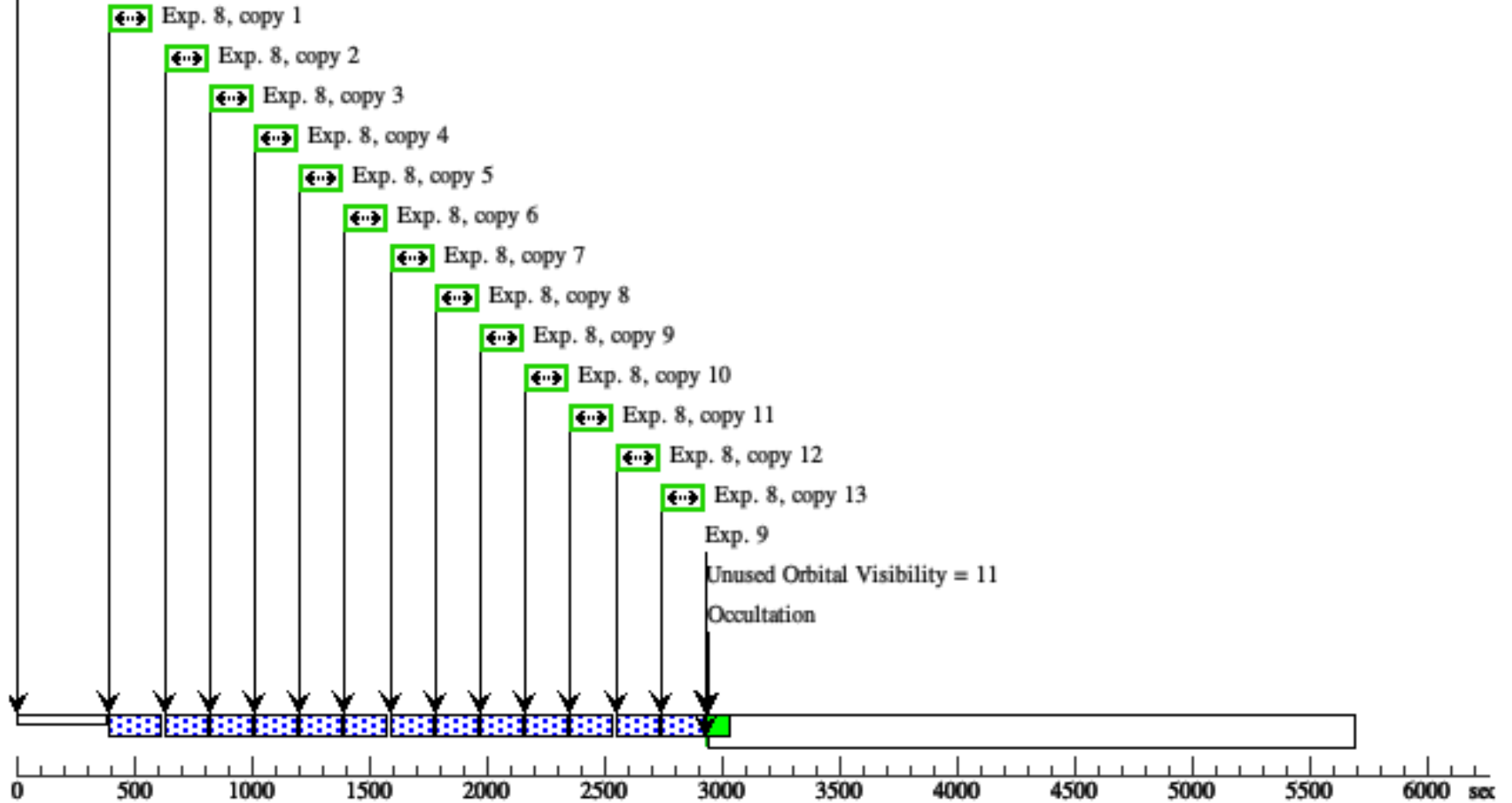


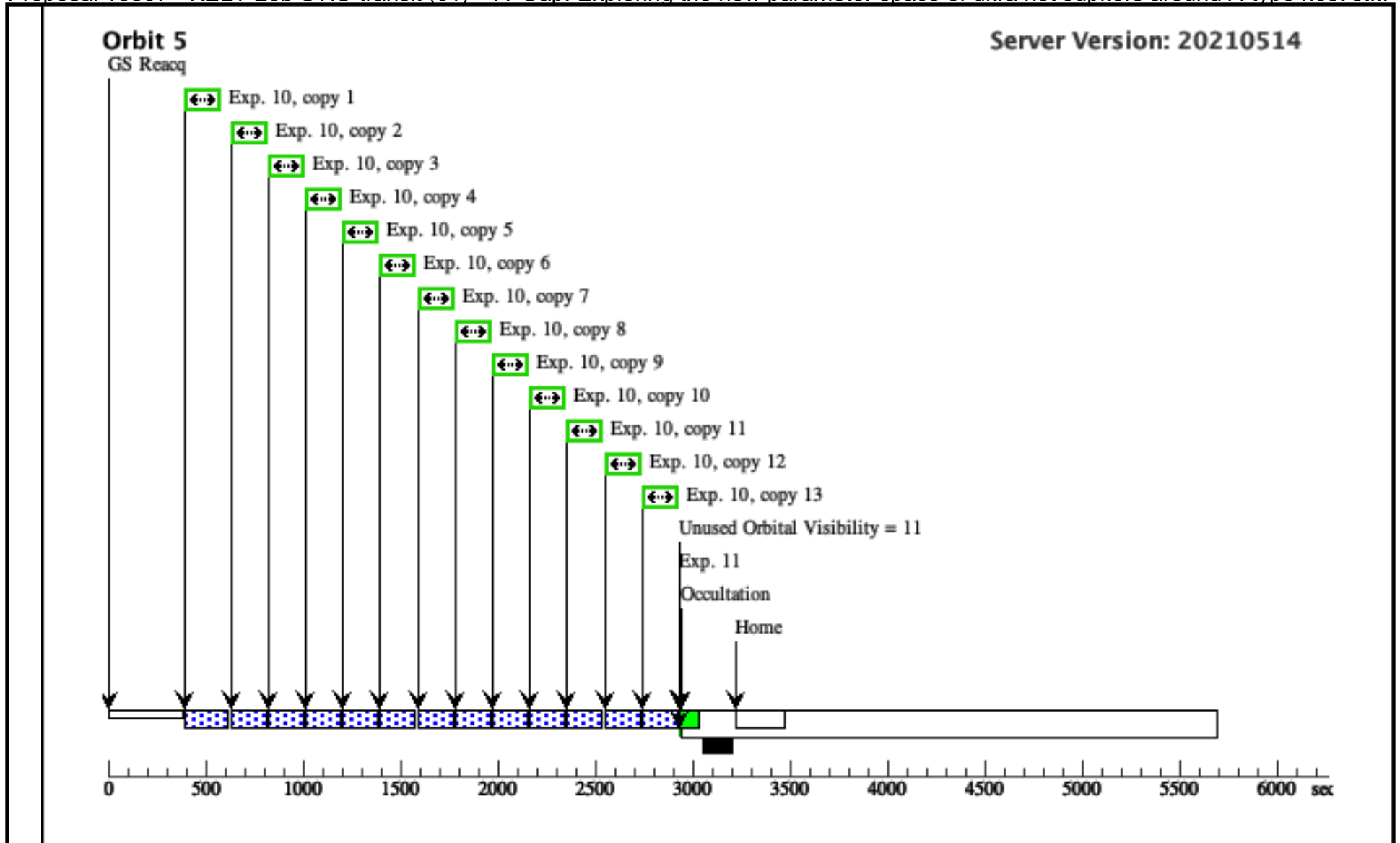


Orbit 4

Server Version: 20210514

GS Reacq





Proposal 16307 - HAT-P-70b STIS-transit (02) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host s...

Visit	Proposal 16307, HAT-P-70b STIS-transit (02), failed Thu Jul 22 14:01:34 GMT 2021 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 70%; Period 2.74432452 D AND ZERO-PHASE HJD2458439.57519				
	Fixed Targets	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous			
(2) HAT-P-70B RA: 04 58 12.5627 (74.5523446d) Dec: +09 59 52.80 (9.99800d) Equinox: J2000		Proper Motion RA: -2.6574487073233404 mas/yr Proper Motion Dec: -4.9963436266385814 mas/yr Epoch of Position: 2015.5	V=9.5	Reference Frame: ICRS	
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[EXTRA-SOLAR PLANET]					

Proposal 16307 - HAT-P-70b STIS-transit (02) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host s...

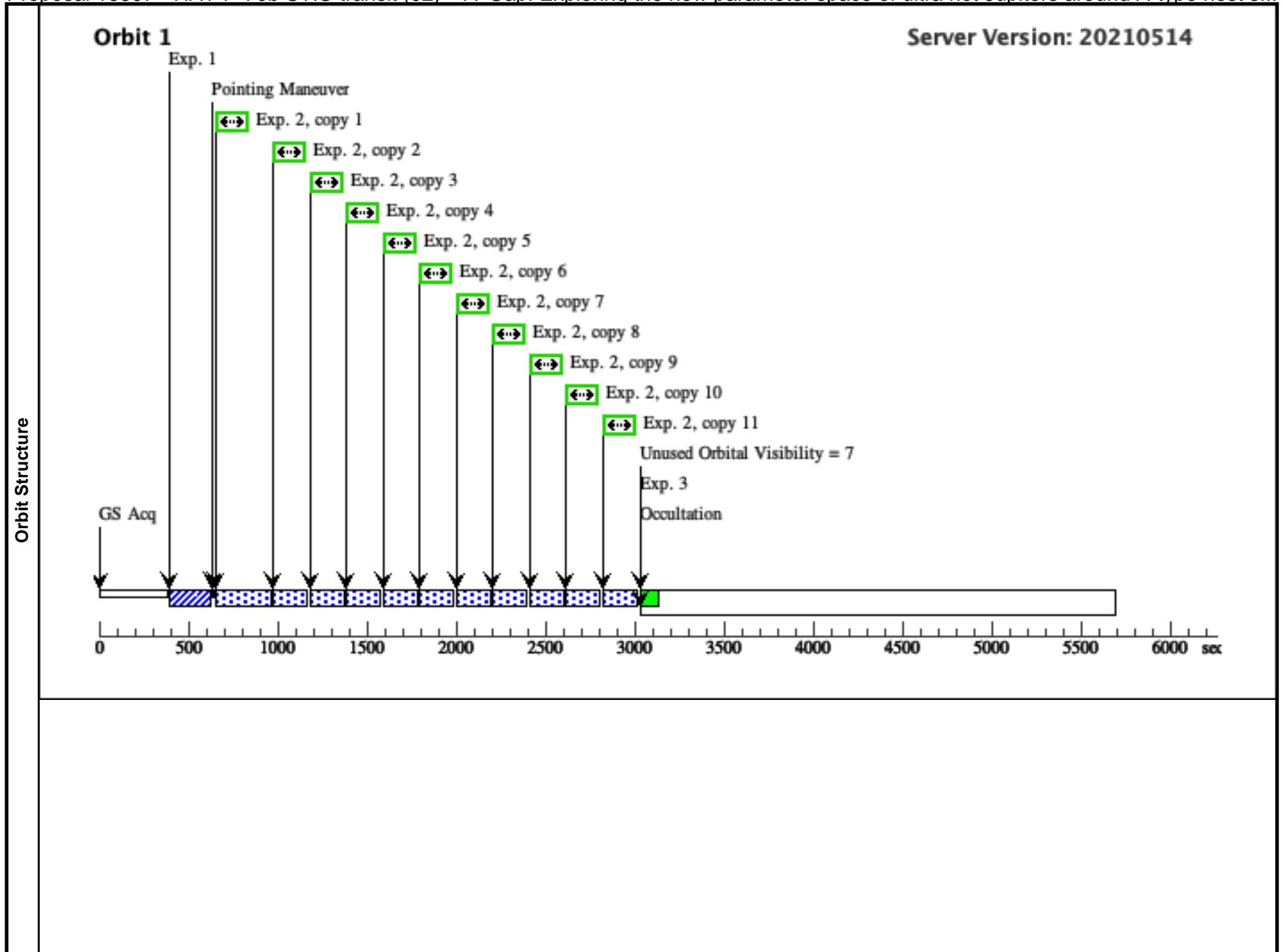
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	Stare (STIS.ta.145 2697)	(2) HAT-P-70B	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.9462527 T O 0.9508076	Sequence 1-3 Non-Int in HAT-P-70b STIS-transit (02)	0.1 Secs (0.1 Secs) [==>]	[1]
	2		(2) HAT-P-70B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128		Sequence 1-3 Non-Int in HAT-P-70b STIS-transit (02)	170 Secs X 11 (2024 Secs) [==>184.0 Secs (Copy 1)] [==>184.0 Secs (Copy 2)] [==>184.0 Secs (Copy 3)] [==>184.0 Secs (Copy 4)] [==>184.0 Secs (Copy 5)] [==>184.0 Secs (Copy 6)] [==>184.0 Secs (Copy 7)] [==>184.0 Secs (Copy 8)] [==>184.0 Secs (Copy 9)] [==>184.0 Secs (Copy 10)] [==>184.0 Secs (Copy 11)]	[1]
	3	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1	G430M 5216 A			Sequence 1-3 Non-Int in HAT-P-70b STIS-transit (02)	[==>]	[1]
	4		(2) HAT-P-70B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; WAVECAL=NO; SIZEAXIS2=128		Sequence 4-5 Non-Int in HAT-P-70b STIS-transit (02)	170 Secs X 13 (2314 Secs) [==>178.0 Secs (Copy 1)] [==>178.0 Secs (Copy 2)] [==>178.0 Secs (Copy 3)] [==>178.0 Secs (Copy 4)] [==>178.0 Secs (Copy 5)] [==>178.0 Secs (Copy 6)] [==>178.0 Secs (Copy 7)] [==>178.0 Secs (Copy 8)] [==>178.0 Secs (Copy 9)] [==>178.0 Secs (Copy 10)] [==>178.0 Secs (Copy 11)] [==>178.0 Secs (Copy 12)] [==>178.0 Secs (Copy 13)]	[2]
	5	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1	G430M 5216 A			Sequence 4-5 Non-Int in HAT-P-70b STIS-transit (02)	[==>]	[2]

Proposal 16307 - HAT-P-70b STIS-transit (02) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host s...

6	(2) HAT-P-70B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; WAVECAL=NO; SIZEAXIS2=128	Sequence 6-7 Non-Int in HAT-P-70b STIS-transit (02)	170 Secs X 13 (2314 Secs) [==>178.0 Secs (Copy 1)] [==>178.0 Secs (Copy 2)] [==>178.0 Secs (Copy 3)] [==>178.0 Secs (Copy 4)] [==>178.0 Secs (Copy 5)] [==>178.0 Secs (Copy 6)] [==>178.0 Secs (Copy 7)] [==>178.0 Secs (Copy 8)] [==>178.0 Secs (Copy 9)] [==>178.0 Secs (Copy 10)] [==>178.0 Secs (Copy 11)] [==>178.0 Secs (Copy 12)] [==>178.0 Secs (Copy 13)]	[3]
7	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1 G430M 5216 A		Sequence 6-7 Non-Int in HAT-P-70b STIS-transit (02)	[==>]	[3]
8	(2) HAT-P-70B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; WAVECAL=NO; SIZEAXIS2=128	Sequence 8-9 Non-Int in HAT-P-70b STIS-transit (02)	170 Secs X 13 (2314 Secs) [==>178.0 Secs (Copy 1)] [==>178.0 Secs (Copy 2)] [==>178.0 Secs (Copy 3)] [==>178.0 Secs (Copy 4)] [==>178.0 Secs (Copy 5)] [==>178.0 Secs (Copy 6)] [==>178.0 Secs (Copy 7)] [==>178.0 Secs (Copy 8)] [==>178.0 Secs (Copy 9)] [==>178.0 Secs (Copy 10)] [==>178.0 Secs (Copy 11)] [==>178.0 Secs (Copy 12)] [==>178.0 Secs (Copy 13)]	[4]
9	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1 G430M 5216 A		Sequence 8-9 Non-Int in HAT-P-70b STIS-transit (02)	[==>]	[4]

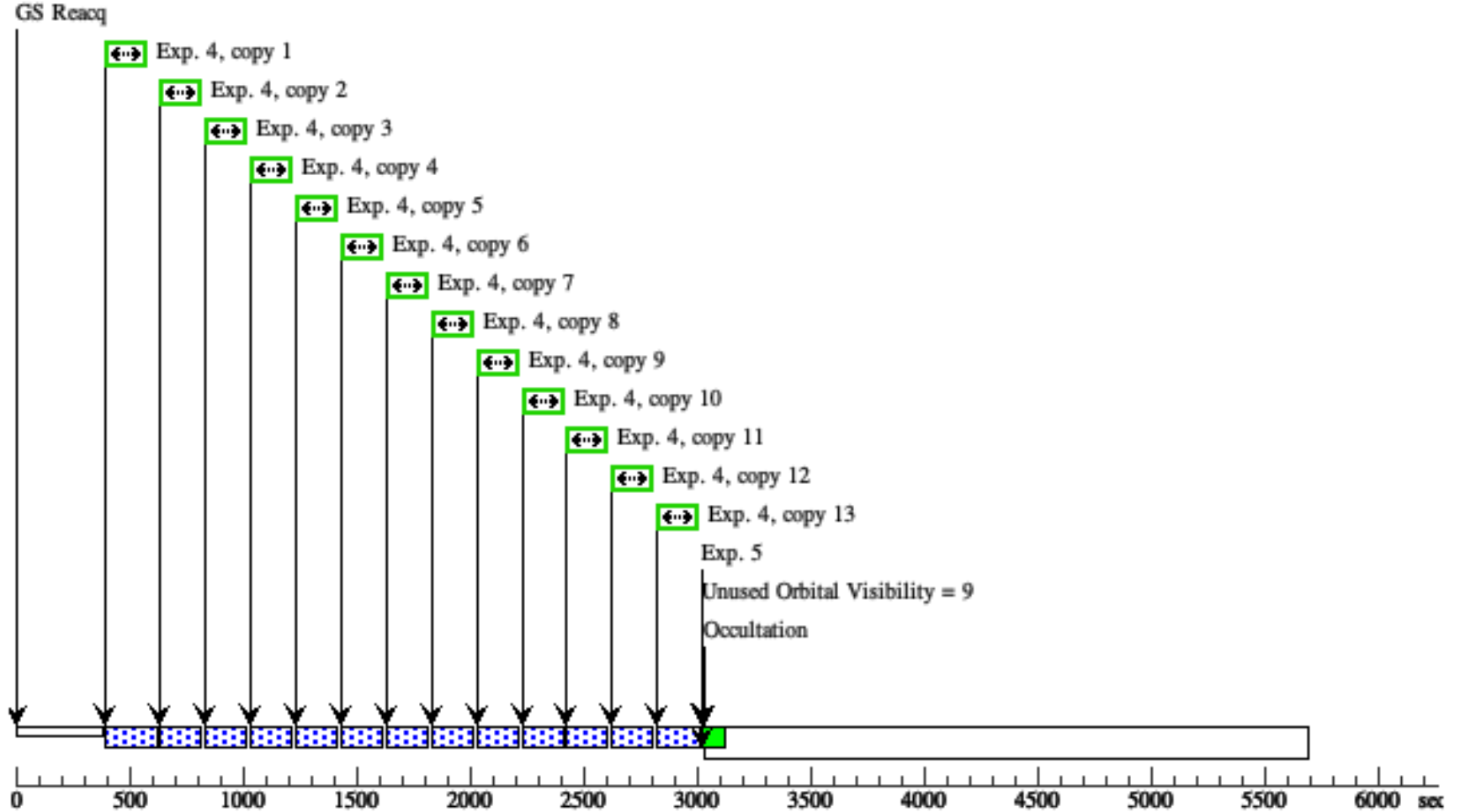
Proposal 16307 - HAT-P-70b STIS-transit (02) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host s...

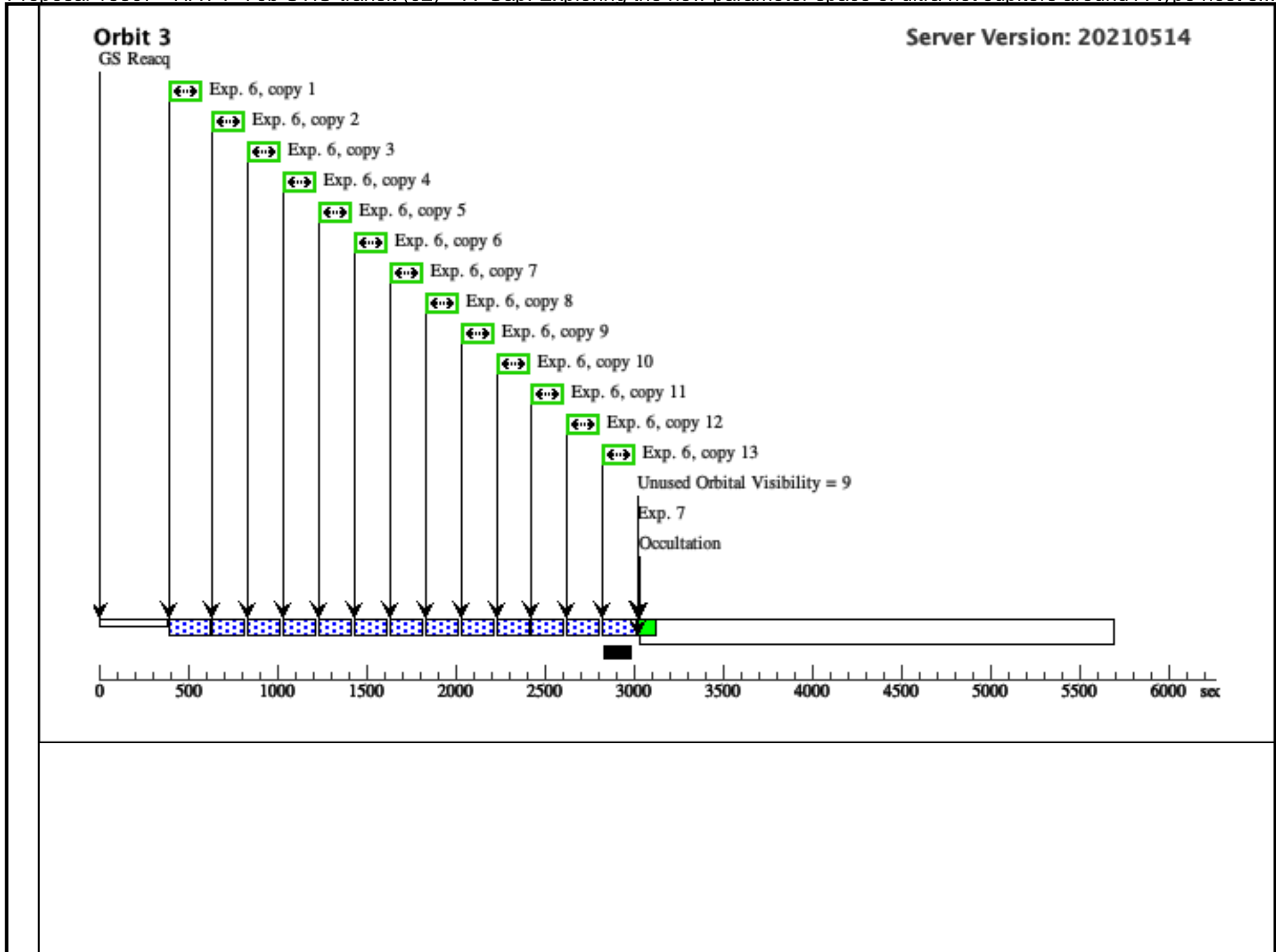
10	(2) HAT-P-70B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; WAVECAL=NO; SIZEAXIS2=128	Sequence 10-11 Non-Int in HAT-P-70b S TIS-transit (02)	170 Secs X 13 (2314 Secs) [==>178.0 Secs (Copy 1)] [==>178.0 Secs (Copy 2)] [==>178.0 Secs (Copy 3)] [==>178.0 Secs (Copy 4)] [==>178.0 Secs (Copy 5)] [==>178.0 Secs (Copy 6)] [==>178.0 Secs (Copy 7)] [==>178.0 Secs (Copy 8)] [==>178.0 Secs (Copy 9)] [==>178.0 Secs (Copy 10)] [==>178.0 Secs (Copy 11)] [==>178.0 Secs (Copy 12)] [==>178.0 Secs (Copy 13)]	[5]
11	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1 G430M 5216 A		Sequence 10-11 Non-Int in HAT-P-70b S TIS-transit (02)	[==>]	[5]



Orbit 2

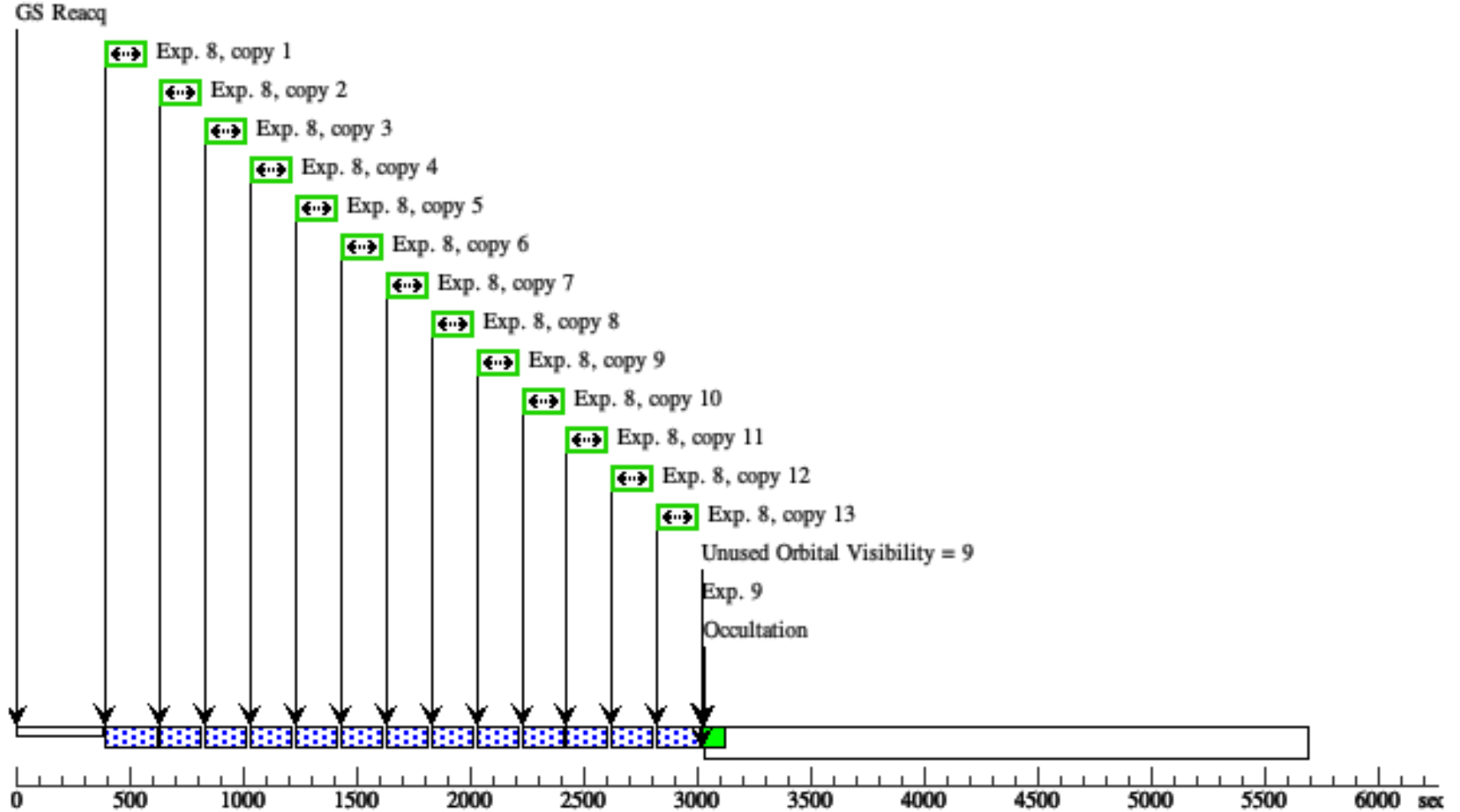
Server Version: 20210514

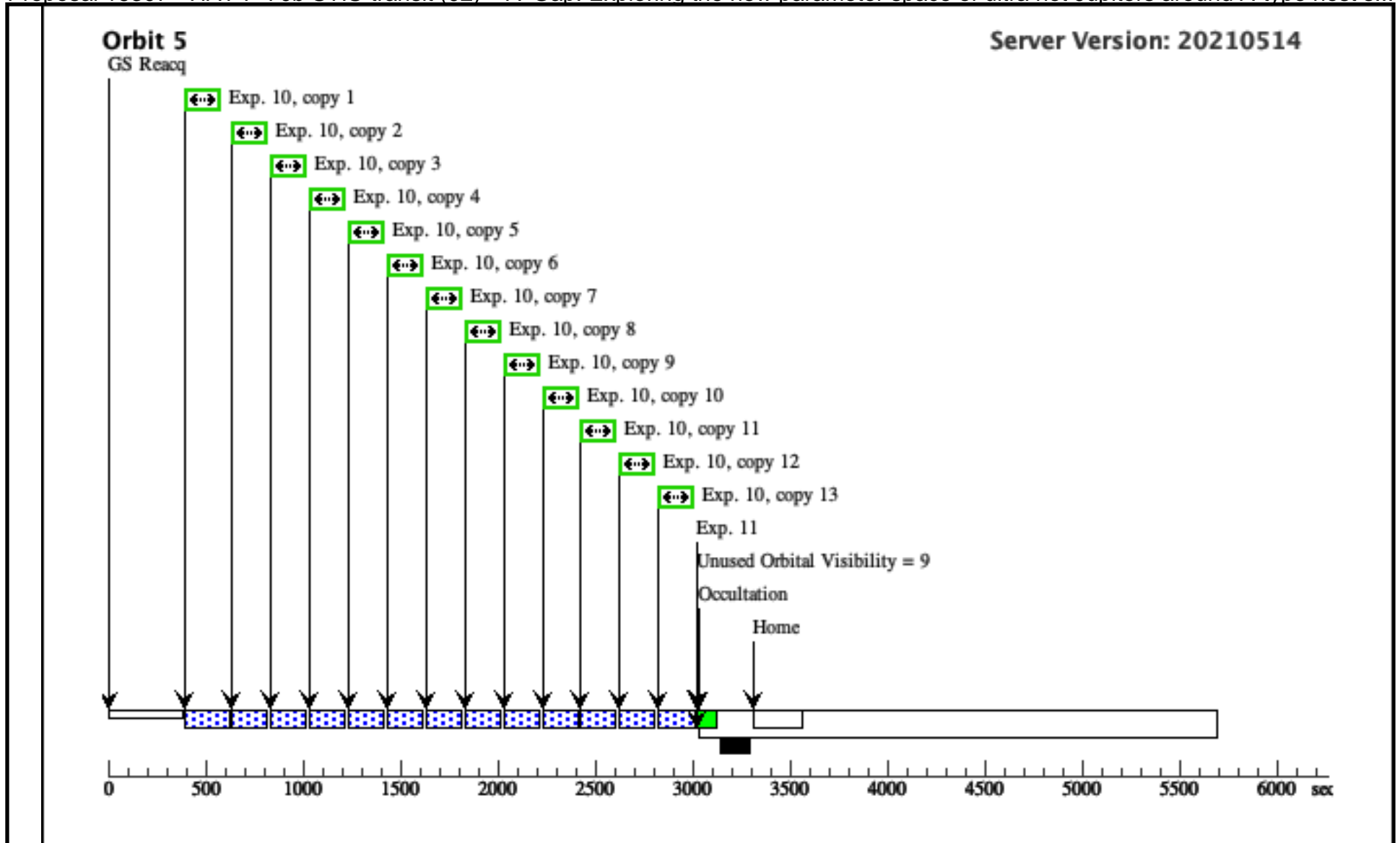




Orbit 4

Server Version: 20210514





Proposal 16307 - HAT-P-70b STIS-transit (12) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host s...

Visit	Proposal 16307, HAT-P-70b STIS-transit (12), implementation Thu Jul 22 14:01:34 GMT 2021					
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 70%; Period 2.74432452 D AND ZERO-PHASE HJD2458439.57519 Comments: HOPR repeat of visit 2					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	HAT-P-70B	RA: 04 58 12.5627 (74.5523446d) Dec: +09 59 52.80 (9.99800d) Equinox: J2000	Proper Motion RA: -2.6574487073233404 mas/yr Proper Motion Dec: -4.9963436266385814 mas/yr Epoch of Position: 2015.5	V=9.5	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[EXTRA-SOLAR PLANET]						

Proposal 16307 - HAT-P-70b STIS-transit (12) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host s...

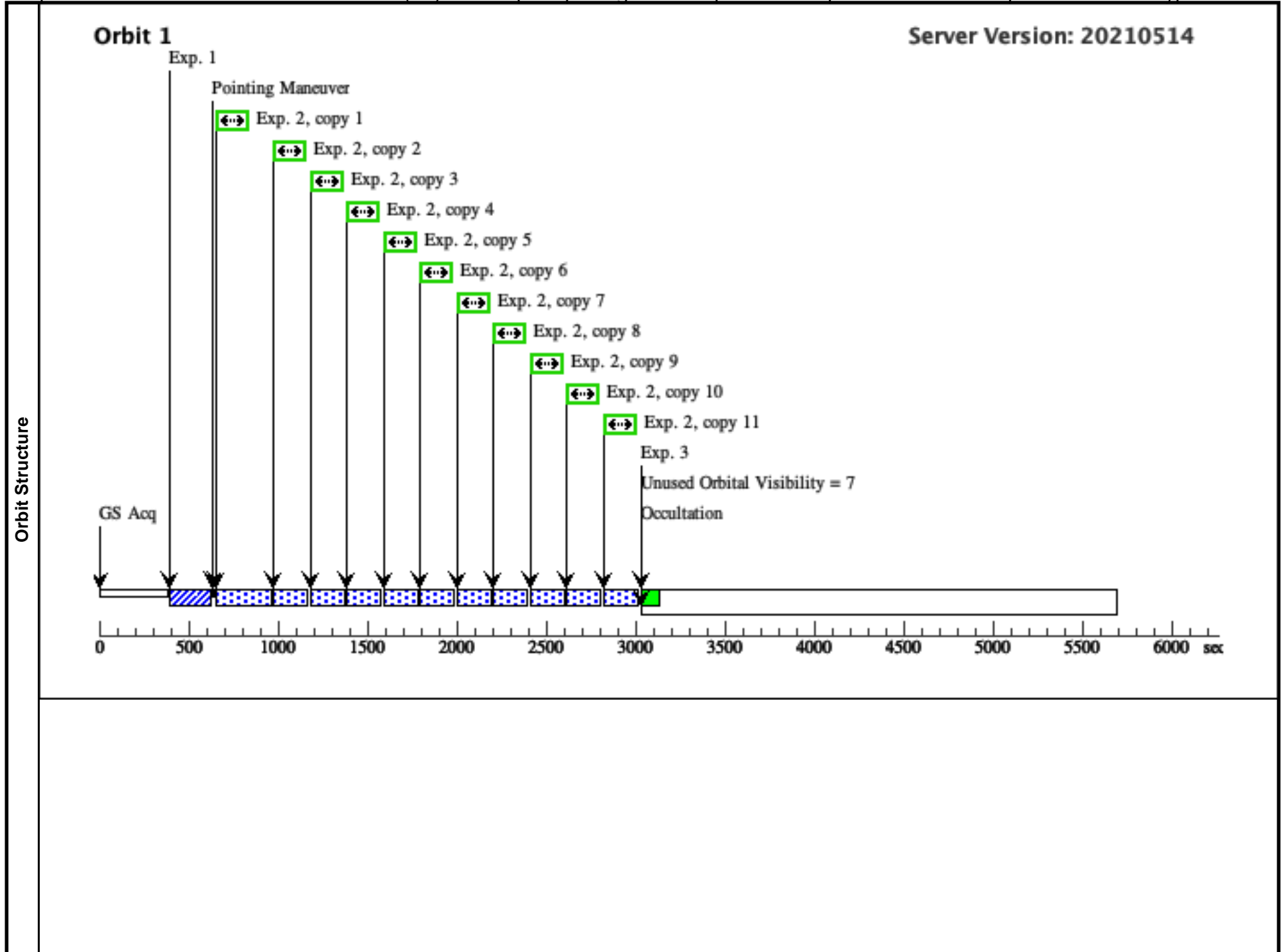
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	Stare (STIS.ta.145 2697)	(2) HAT-P-70B	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.9462527 T O 0.9508076	Sequence 1-3 Non-Int in HAT-P-70b STIS-transit (12)	0.1 Secs (0.1 Secs) [==>]	[1]
	2		(2) HAT-P-70B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; SIZEAXIS2=128		Sequence 1-3 Non-Int in HAT-P-70b STIS-transit (12)	170 Secs X 11 (2024 Secs) [==>184.0 Secs (Copy 1)] [==>184.0 Secs (Copy 2)] [==>184.0 Secs (Copy 3)] [==>184.0 Secs (Copy 4)] [==>184.0 Secs (Copy 5)] [==>184.0 Secs (Copy 6)] [==>184.0 Secs (Copy 7)] [==>184.0 Secs (Copy 8)] [==>184.0 Secs (Copy 9)] [==>184.0 Secs (Copy 10)] [==>184.0 Secs (Copy 11)]	[1]
	3	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1	G430M 5216 A			Sequence 1-3 Non-Int in HAT-P-70b STIS-transit (12)	[==>]	[1]
	4		(2) HAT-P-70B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; WAVECAL=NO; SIZEAXIS2=128		Sequence 4-5 Non-Int in HAT-P-70b STIS-transit (12)	170 Secs X 13 (2314 Secs) [==>178.0 Secs (Copy 1)] [==>178.0 Secs (Copy 2)] [==>178.0 Secs (Copy 3)] [==>178.0 Secs (Copy 4)] [==>178.0 Secs (Copy 5)] [==>178.0 Secs (Copy 6)] [==>178.0 Secs (Copy 7)] [==>178.0 Secs (Copy 8)] [==>178.0 Secs (Copy 9)] [==>178.0 Secs (Copy 10)] [==>178.0 Secs (Copy 11)] [==>178.0 Secs (Copy 12)] [==>178.0 Secs (Copy 13)]	[2]
	5	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1	G430M 5216 A			Sequence 4-5 Non-Int in HAT-P-70b STIS-transit (12)	[==>]	[2]

Proposal 16307 - HAT-P-70b STIS-transit (12) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host s...

6	(2) HAT-P-70B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; WAVECAL=NO; SIZEAXIS2=128	Sequence 6-7 Non-Int in HAT-P-70b STIS-transit (12)	170 Secs X 13 (2314 Secs) [==>178.0 Secs (Copy 1)] [==>178.0 Secs (Copy 2)] [==>178.0 Secs (Copy 3)] [==>178.0 Secs (Copy 4)] [==>178.0 Secs (Copy 5)] [==>178.0 Secs (Copy 6)] [==>178.0 Secs (Copy 7)] [==>178.0 Secs (Copy 8)] [==>178.0 Secs (Copy 9)] [==>178.0 Secs (Copy 10)] [==>178.0 Secs (Copy 11)] [==>178.0 Secs (Copy 12)] [==>178.0 Secs (Copy 13)]	[3]
7	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1 G430M 5216 A		Sequence 6-7 Non-Int in HAT-P-70b STIS-transit (12)	[==>]	[3]
8	(2) HAT-P-70B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; WAVECAL=NO; SIZEAXIS2=128	Sequence 8-9 Non-Int in HAT-P-70b STIS-transit (12)	170 Secs X 13 (2314 Secs) [==>178.0 Secs (Copy 1)] [==>178.0 Secs (Copy 2)] [==>178.0 Secs (Copy 3)] [==>178.0 Secs (Copy 4)] [==>178.0 Secs (Copy 5)] [==>178.0 Secs (Copy 6)] [==>178.0 Secs (Copy 7)] [==>178.0 Secs (Copy 8)] [==>178.0 Secs (Copy 9)] [==>178.0 Secs (Copy 10)] [==>178.0 Secs (Copy 11)] [==>178.0 Secs (Copy 12)] [==>178.0 Secs (Copy 13)]	[4]
9	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1 G430M 5216 A		Sequence 8-9 Non-Int in HAT-P-70b STIS-transit (12)	[==>]	[4]

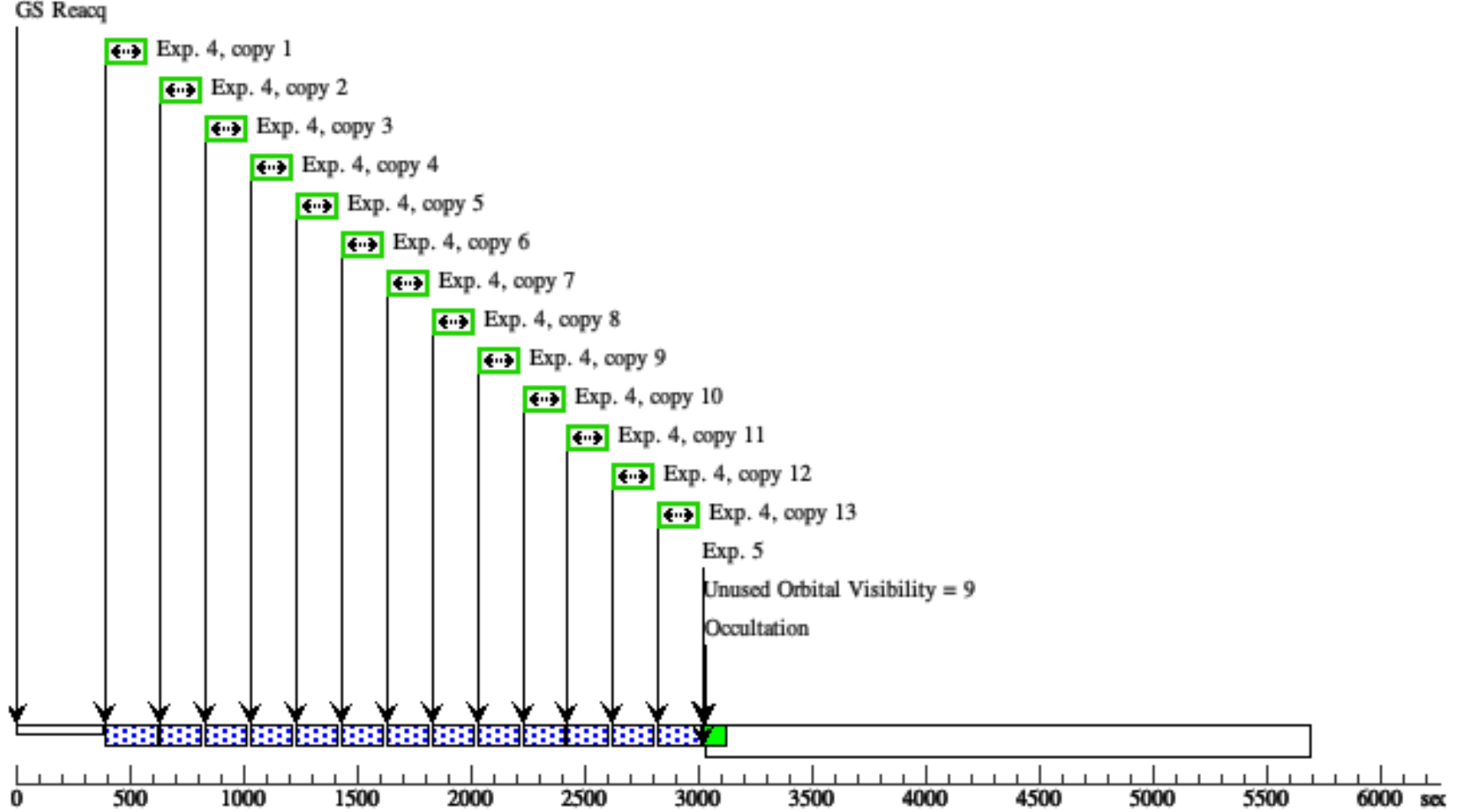
Proposal 16307 - HAT-P-70b STIS-transit (12) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host s...

10	(2) HAT-P-70B	STIS/CCD, ACCUM, 52X2	G430M 5216 A	GAIN=4; CR-SPLIT=NO; WAVECAL=NO; SIZEAXIS2=128	Sequence 10-11 Non-Int in HAT-P-70b S TIS-transit (12)	170 Secs X 13 (2314 Secs) [==>178.0 Secs (Copy 1)] [==>178.0 Secs (Copy 2)] [==>178.0 Secs (Copy 3)] [==>178.0 Secs (Copy 4)] [==>178.0 Secs (Copy 5)] [==>178.0 Secs (Copy 6)] [==>178.0 Secs (Copy 7)] [==>178.0 Secs (Copy 8)] [==>178.0 Secs (Copy 9)] [==>178.0 Secs (Copy 10)] [==>178.0 Secs (Copy 11)] [==>178.0 Secs (Copy 12)] [==>178.0 Secs (Copy 13)]	[5]
11	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.1 G430M 5216 A		Sequence 10-11 Non-Int in HAT-P-70b S TIS-transit (12)	[==>]	[5]



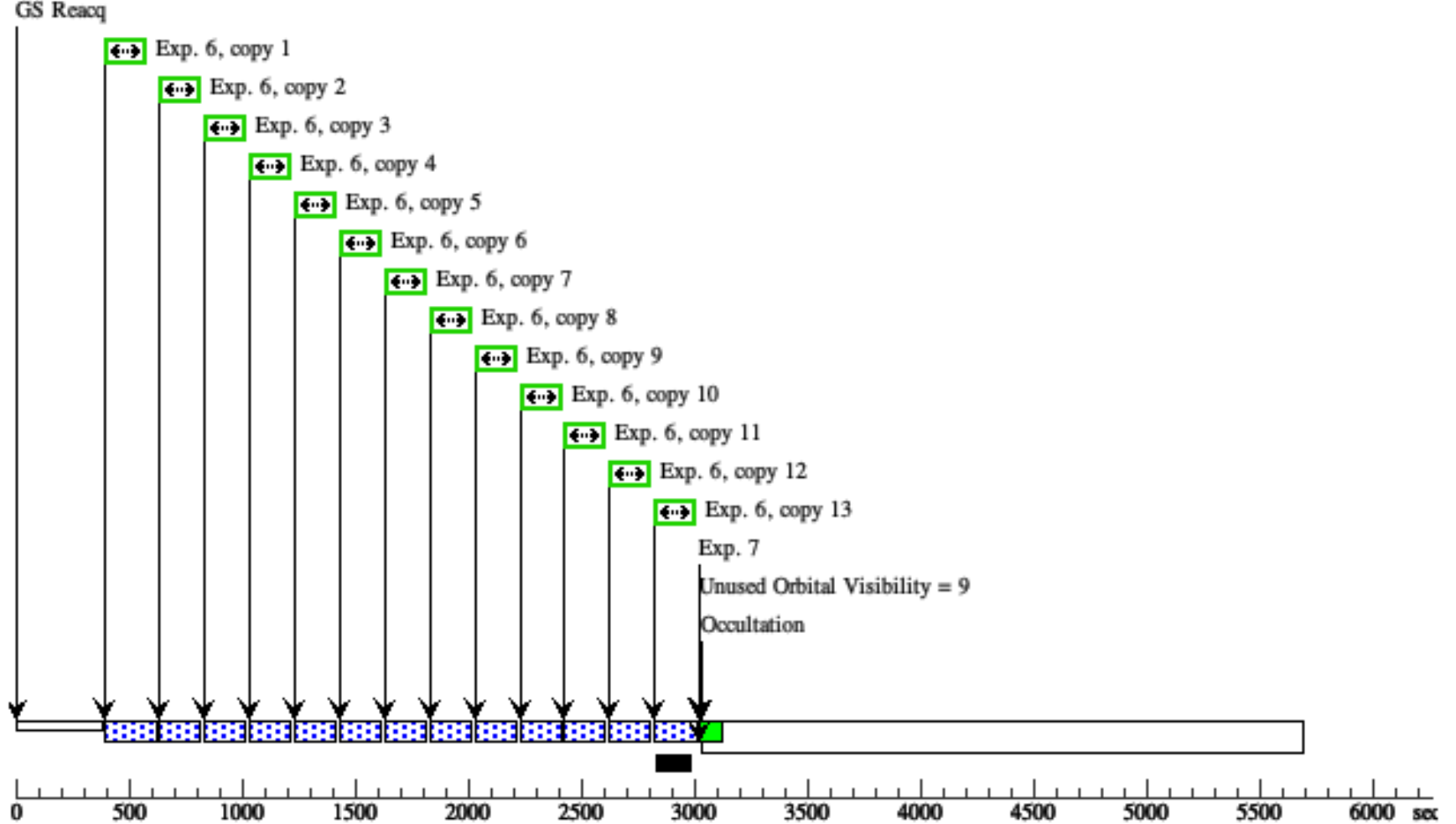
Orbit 2

Server Version: 20210514



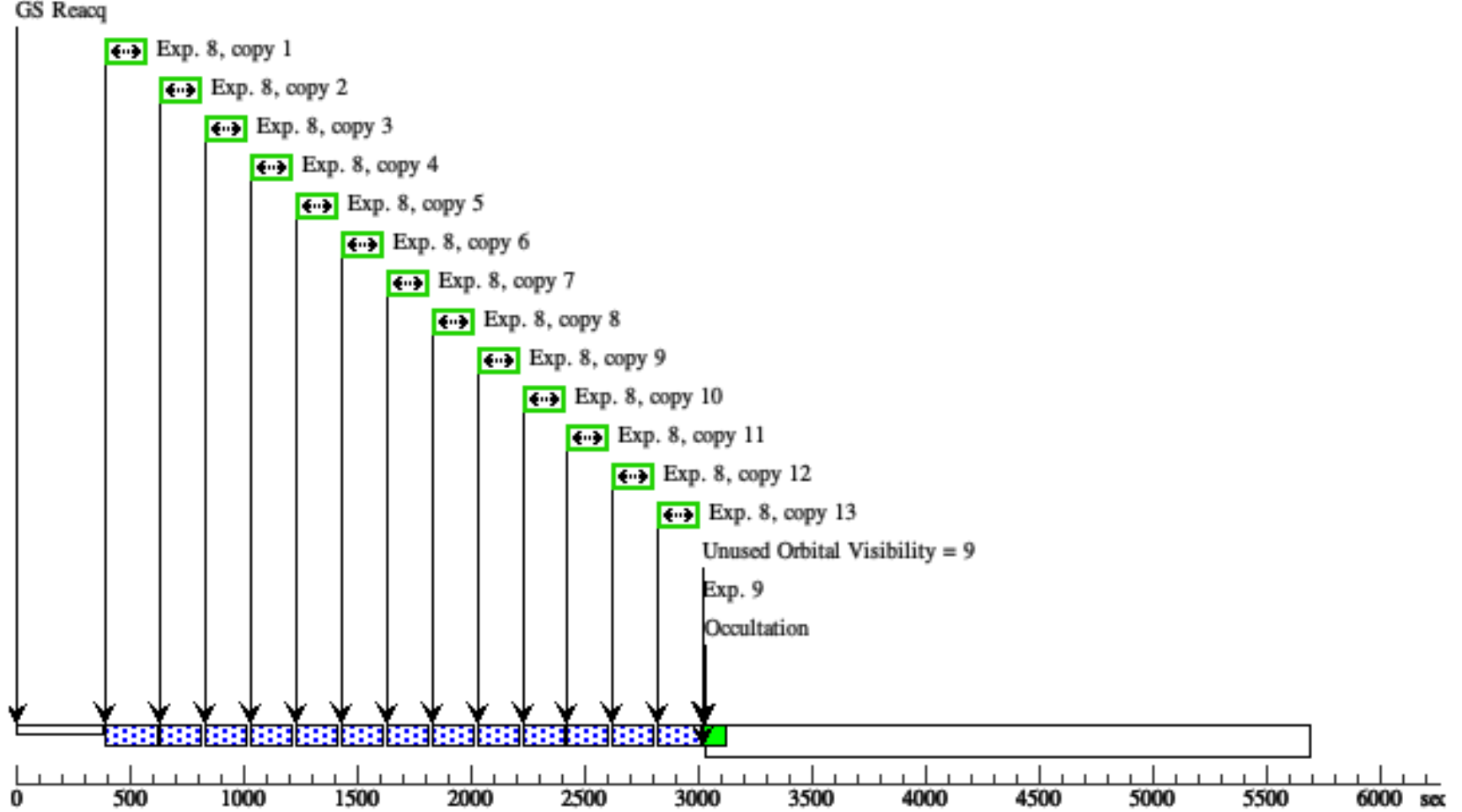
Orbit 3

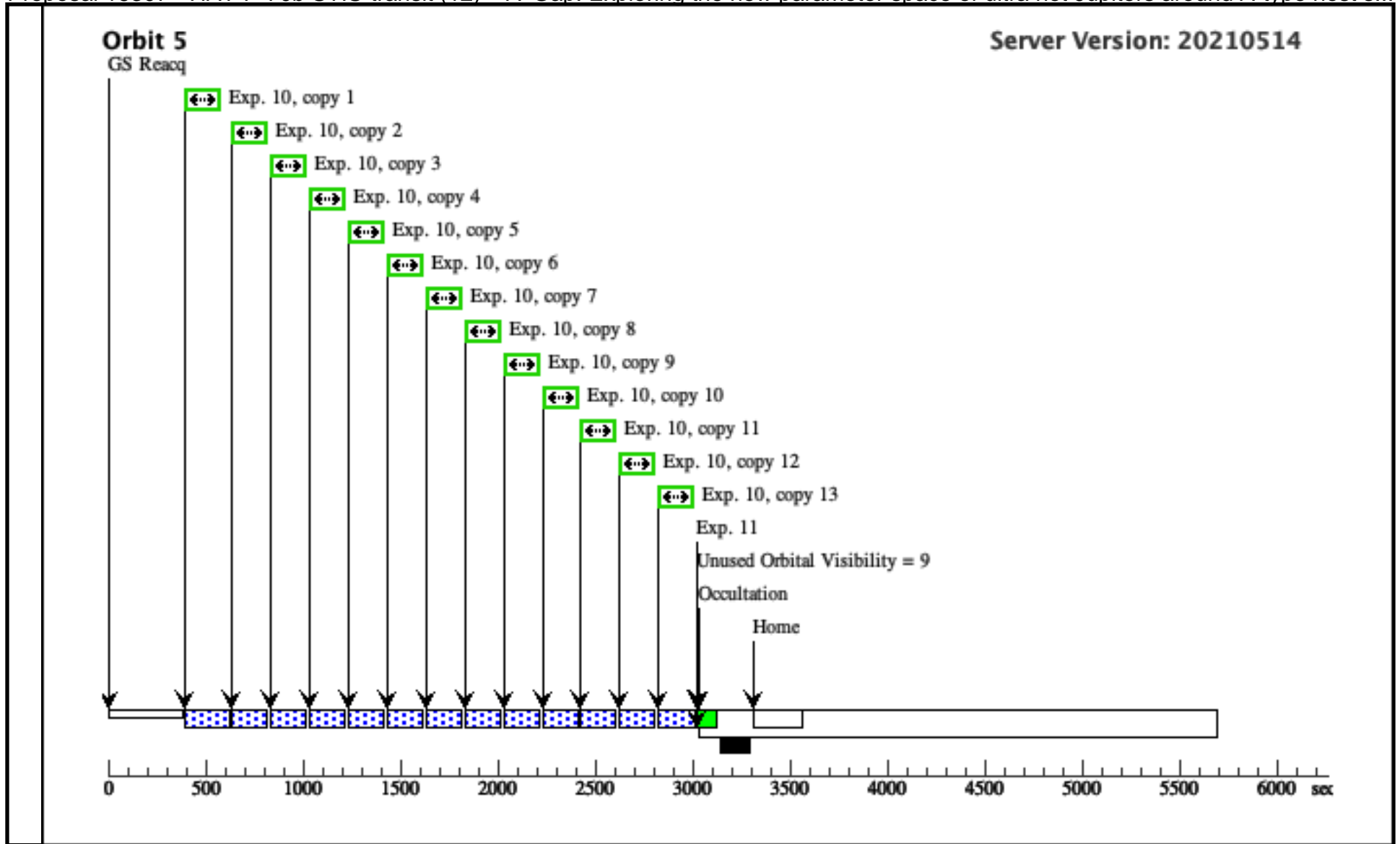
Server Version: 20210514



Orbit 4

Server Version: 20210514





Proposal 16307 - KELT-20b WFC3-eclipse (03) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host ...

Visit	Proposal 16307, KELT-20b WFC3-eclipse (03), failed Thu Jul 22 14:01:34 GMT 2021 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 80%; Period 3.474119 D AND ZERO-PHASE HJD2457909.5906					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		HD-185603B	RA: 19 38 38.7390 (294.6614125d) Dec: +31 13 9.12 (31.21920d) Equinox: J2000	Proper Motion RA: 3.0956278483550275 mas/yr Proper Motion Dec: -6.157331056711856 mas/yr Epoch of Position: 2015.5	V=7.58	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[EXTRA-SOLAR PLANET]						

Proposal 16307 - KELT-20b WFC3-eclipse (03) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host ...

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	(WFC3IR.im.1472494)	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	F164N	NSAMP=1; SAMP-SEQ=RAPID	PHASE 0.45482454 14774914 TO 0.4588 2236966532397	Sequence 1-3 Non-Int in KELT-20b WFC3-eclipse (03)	0.853027 Secs (0.853 Secs) [==>]	[1]
	2		(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPARS25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Round trip	Sequence 1-3 Non-Int in KELT-20b WFC3-eclipse (03)	69.61678 Secs X 10 (1392.336 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)]	[1]
	3		(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPARS25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Forward	Sequence 1-3 Non-Int in KELT-20b WFC3-eclipse (03)	69.61678 Secs (69.617 Secs) [==>]	[1]

Proposal 16307 - KELT-20b WFC3-eclipse (03) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host ...

4	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Round trip	Sequence 4-5 Non-Int in KELT-20b WFC 3-eclipse (03)	69.61678 Secs X 10 (1392.336 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)]	[2]
5	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Forward	Sequence 4-5 Non-Int in KELT-20b WFC 3-eclipse (03)	69.61678 Secs (69.617 Secs) [==>]	[2]

Proposal 16307 - KELT-20b WFC3-eclipse (03) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host ...

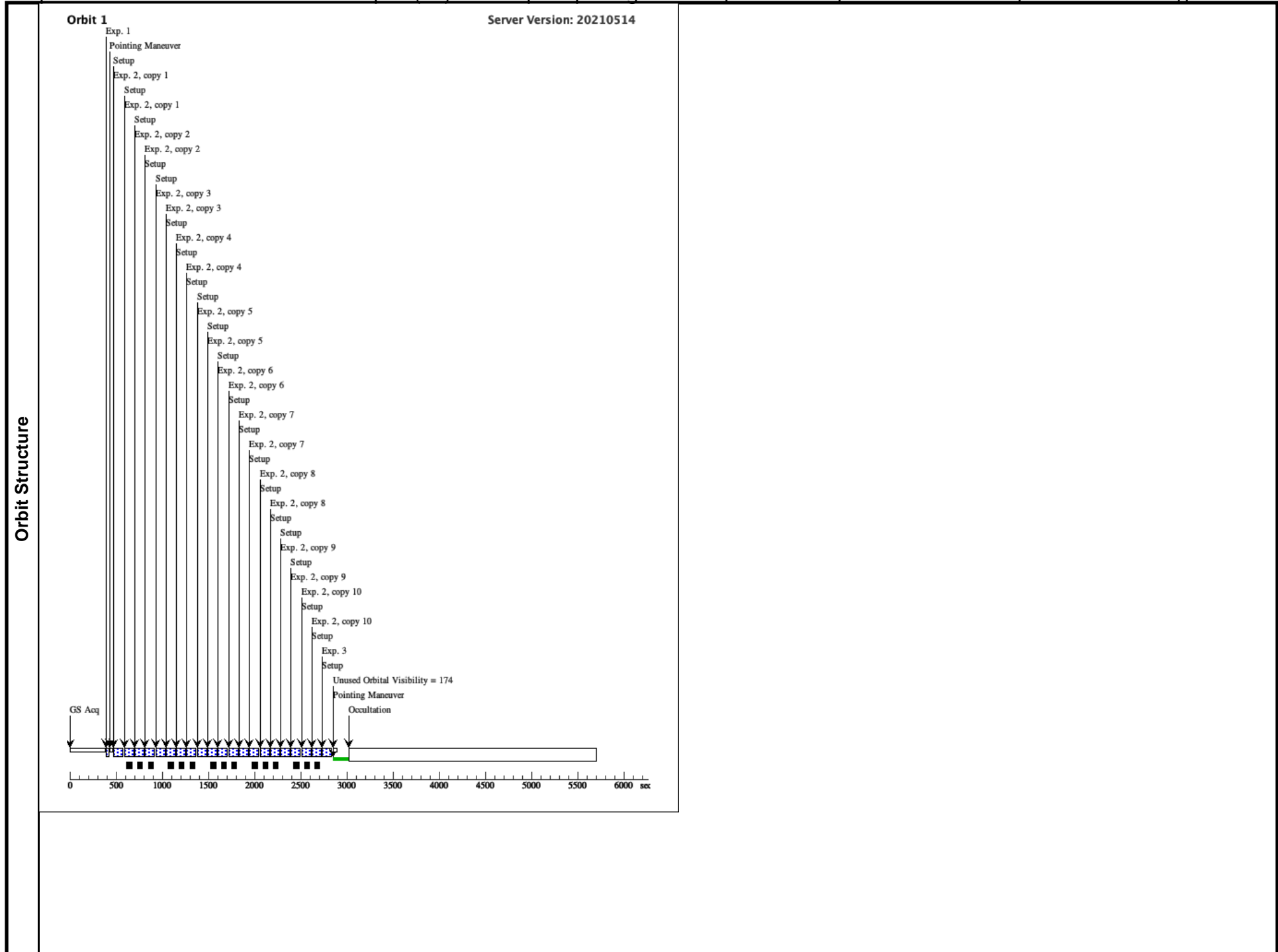
6	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Round trip	Sequence 6-7 Non-Int in KELT-20b WFC 3-eclipse (03)	69.61678 Secs X 10 (1392.336 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)]	[3]
7	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Forward	Sequence 6-7 Non-Int in KELT-20b WFC 3-eclipse (03)	69.61678 Secs (69.617 Secs) [==>]	[3]

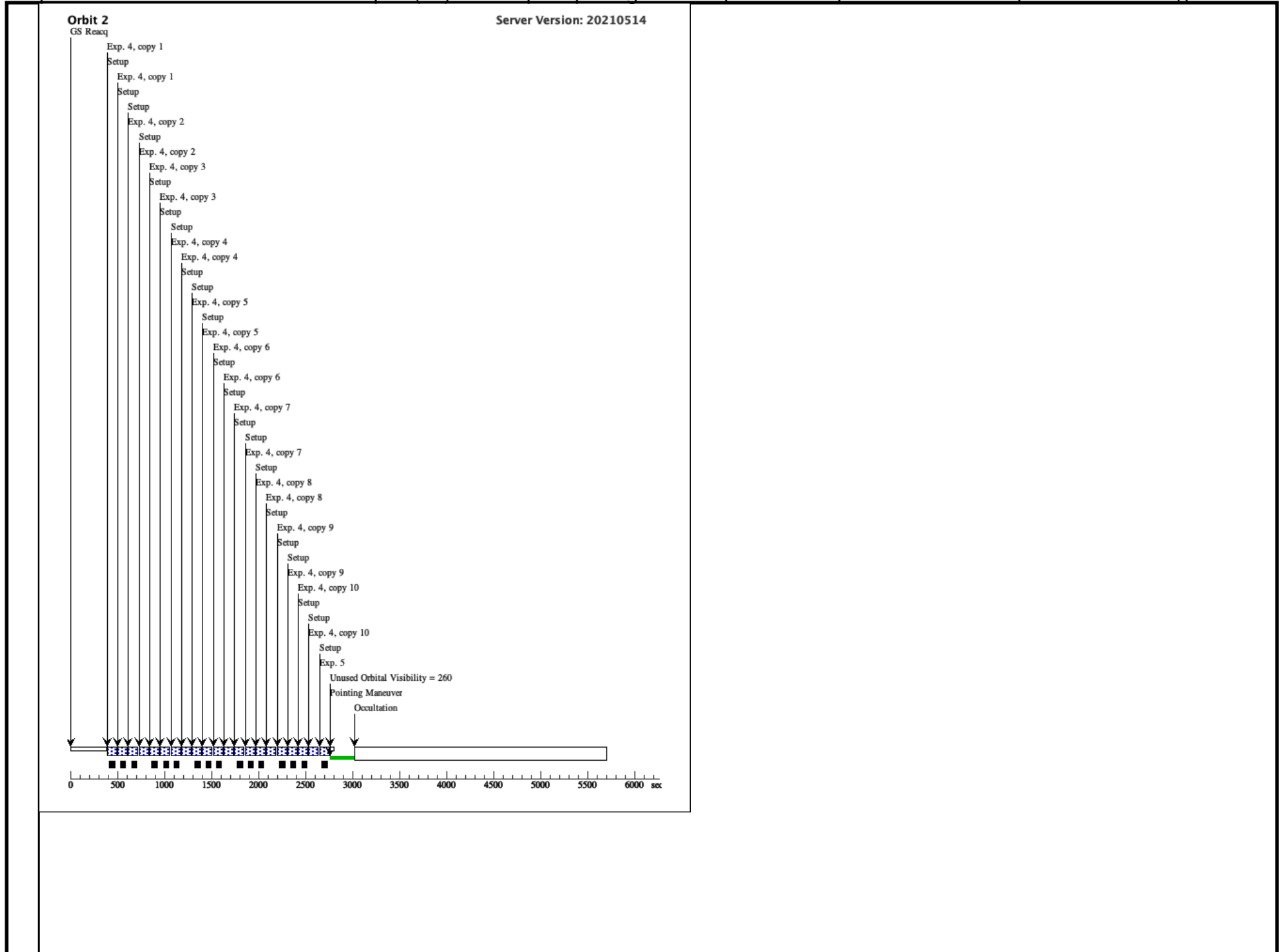
Proposal 16307 - KELT-20b WFC3-eclipse (03) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host ...

8	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Round trip	Sequence 8-9 Non-Int in KELT-20b WFC 3-eclipse (03)	69.61678 Secs X 10 (1392.336 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)]	[4]
9	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Forward	Sequence 8-9 Non-Int in KELT-20b WFC 3-eclipse (03)	69.61678 Secs (69.617 Secs) [==>]	[4]

Proposal 16307 - KELT-20b WFC3-eclipse (03) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host ...

10	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Round trip	Sequence 10-11 Non -Int in KELT-20b W FC3-eclipse (03)	69.61678 Secs X 10 (1392.336 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)]	[5]
11	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Forward	Sequence 10-11 Non -Int in KELT-20b W FC3-eclipse (03)	69.61678 Secs (69.617 Secs) [==>]	[5]





Orbit 3

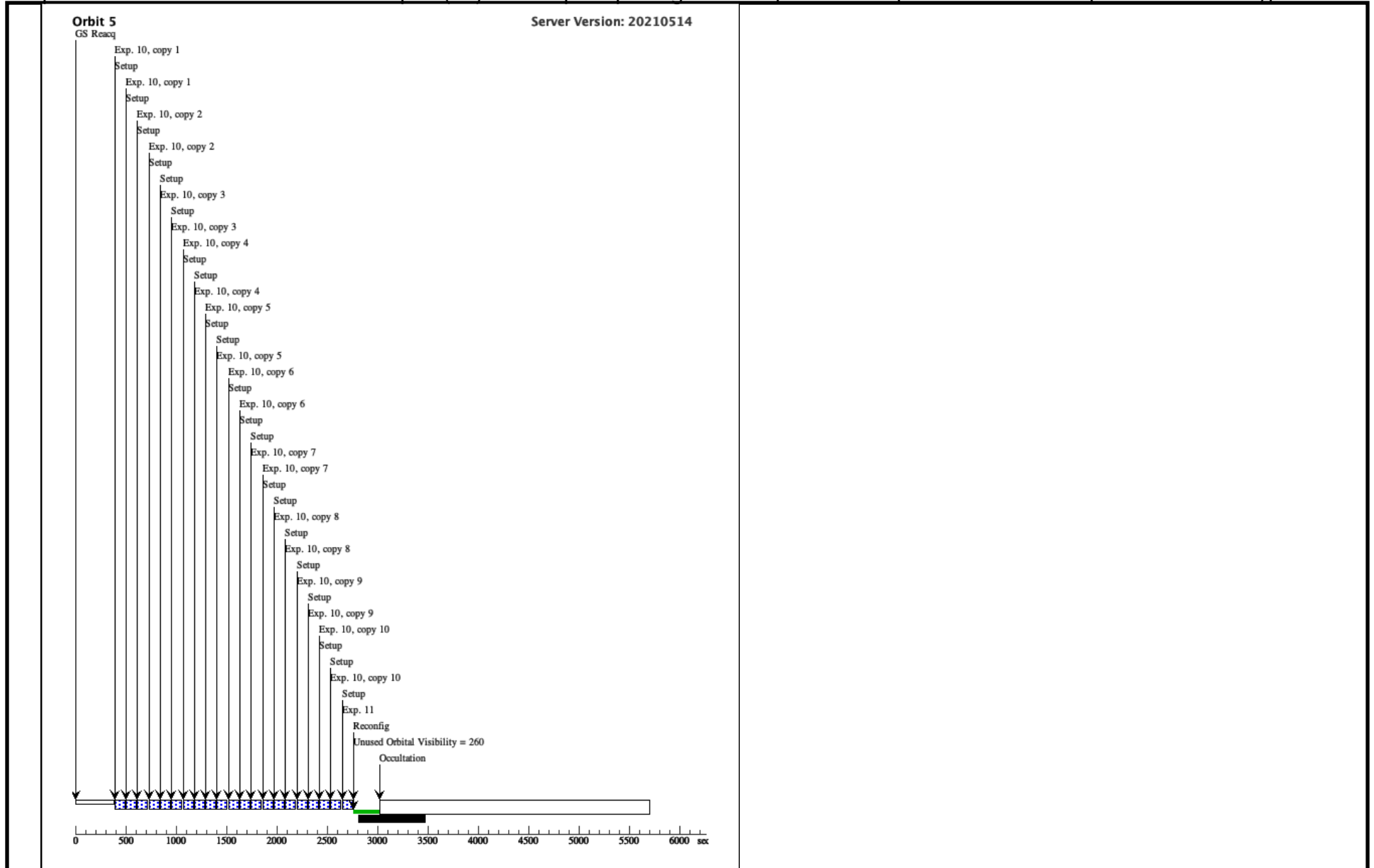
Server Version: 20210514



Orbit 4

Server Version: 20210514





Proposal 16307 - KELT-20b WFC3-eclipse (13) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host ...

Visit	Proposal 16307, KELT-20b WFC3-eclipse (13) Thu Jul 22 14:01:35 GMT 2021 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 80%; Period 3.474119 D AND ZERO-PHASE HJD2457909.5906 <i>Comments: HOPR copy of visit 03</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		HD-185603B	RA: 19 38 38.7390 (294.6614125d) Dec: +31 13 9.12 (31.21920d) Equinox: J2000	Proper Motion RA: 3.0956278483550275 mas/yr Proper Motion Dec: -6.157331056711856 mas/yr Epoch of Position: 2015.5	V=7.58	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=EXT-STAR Description=[EXTRA-SOLAR PLANET]						

Proposal 16307 - KELT-20b WFC3-eclipse (13) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host ...

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	(WFC3IR.im.1472494)	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	F164N	NSAMP=1; SAMP-SEQ=RAPID	PHASE 0.45482454 14774914 TO 0.4588 2236966532397	Sequence 1-3 Non-Int in KELT-20b WFC3-eclipse (13)	0.853027 Secs (0.853 Secs) [==>]	[1]
	2		(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPARS25	POS TARG -25,-27; SPATIAL SCAN 0.701903,90.0 Degrees, Round trip	Sequence 1-3 Non-Int in KELT-20b WFC3-eclipse (13)	69.61678 Secs X 10 (1392.336 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)]	[1]
	3		(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPARS25	POS TARG -25,-27; SPATIAL SCAN 0.701903,90.0 Degrees, Forward	Sequence 1-3 Non-Int in KELT-20b WFC3-eclipse (13)	69.61678 Secs (69.617 Secs) [==>]	[1]

Proposal 16307 - KELT-20b WFC3-eclipse (13) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host ...

4	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Round trip	Sequence 4-5 Non-Int in KELT-20b WFC 3-eclipse (13)	69.61678 Secs X 10 (1392.336 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)]	[2]
5	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Forward	Sequence 4-5 Non-Int in KELT-20b WFC 3-eclipse (13)	69.61678 Secs (69.617 Secs) [==>]	[2]

Proposal 16307 - KELT-20b WFC3-eclipse (13) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host ...

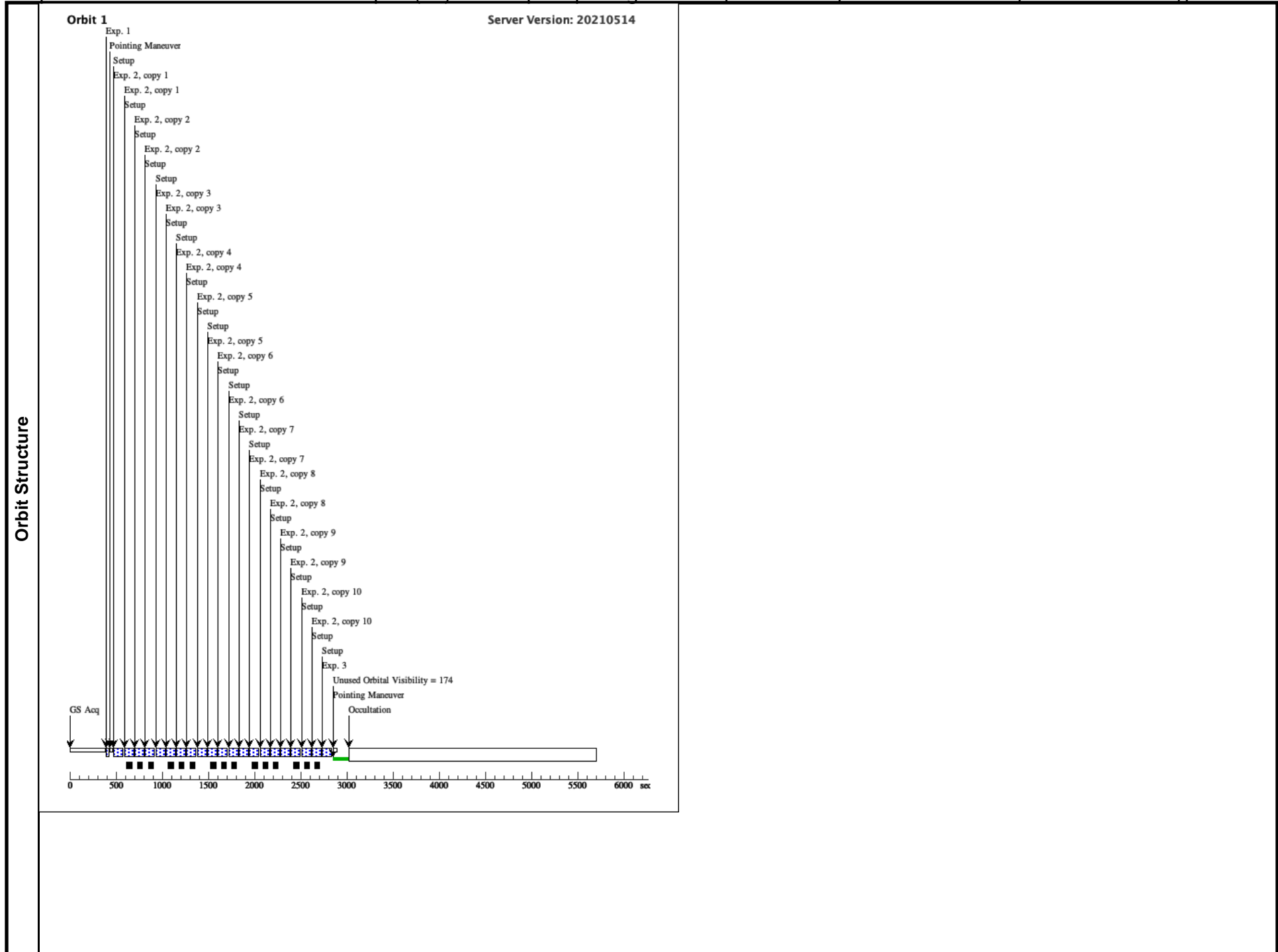
6	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Round trip	Sequence 6-7 Non-Int in KELT-20b WFC 3-eclipse (13)	69.61678 Secs X 10 (1392.336 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)]	[3]
7	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Forward	Sequence 6-7 Non-Int in KELT-20b WFC 3-eclipse (13)	69.61678 Secs (69.617 Secs) [==>]	[3]

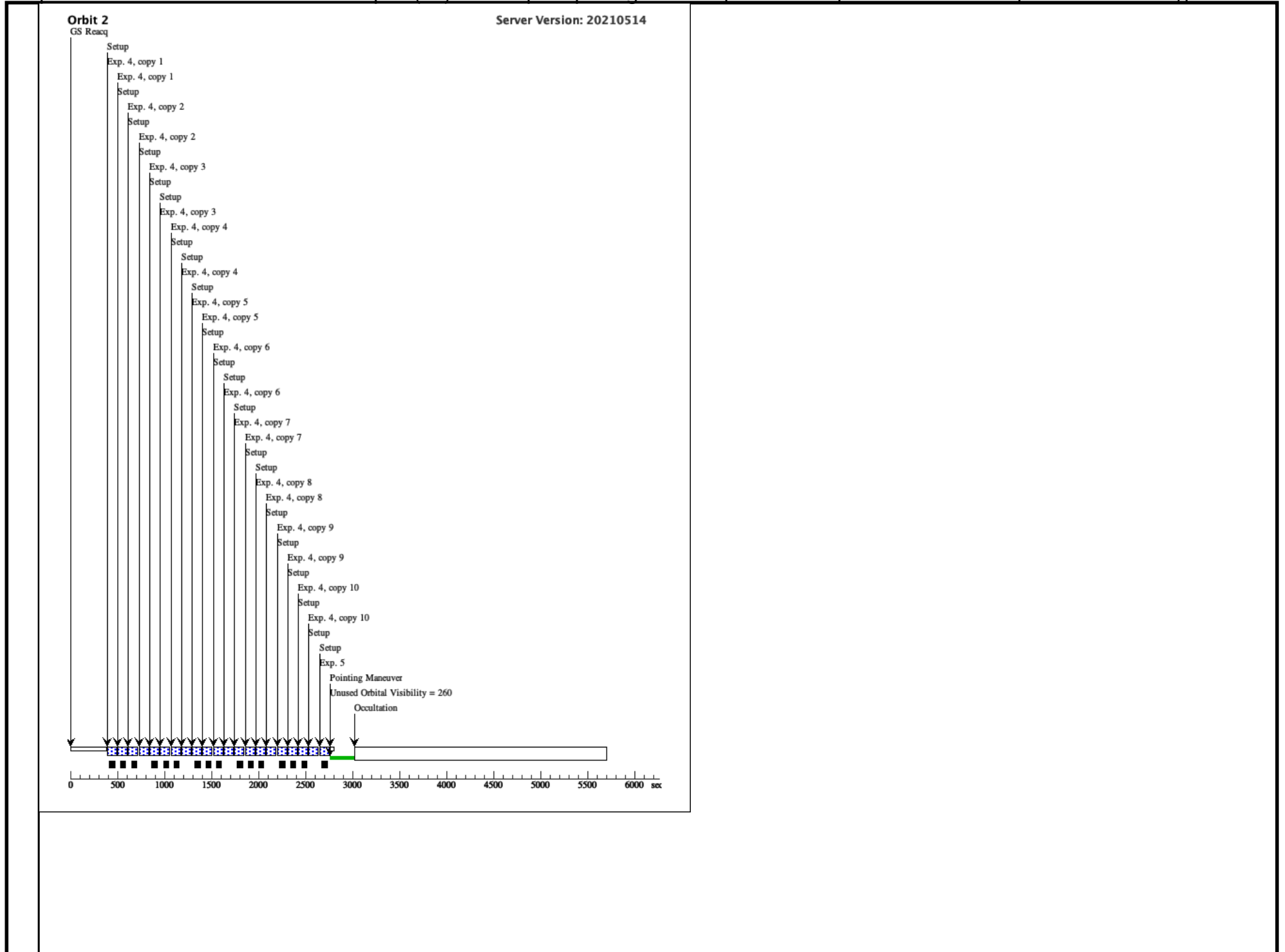
Proposal 16307 - KELT-20b WFC3-eclipse (13) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host ...

8	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Round trip	Sequence 8-9 Non-Int in KELT-20b WFC 3-eclipse (13)	69.61678 Secs X 10 (1392.336 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)]	[4]
9	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Forward	Sequence 8-9 Non-Int in KELT-20b WFC 3-eclipse (13)	69.61678 Secs (69.617 Secs) [==>]	[4]

Proposal 16307 - KELT-20b WFC3-eclipse (13) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host ...

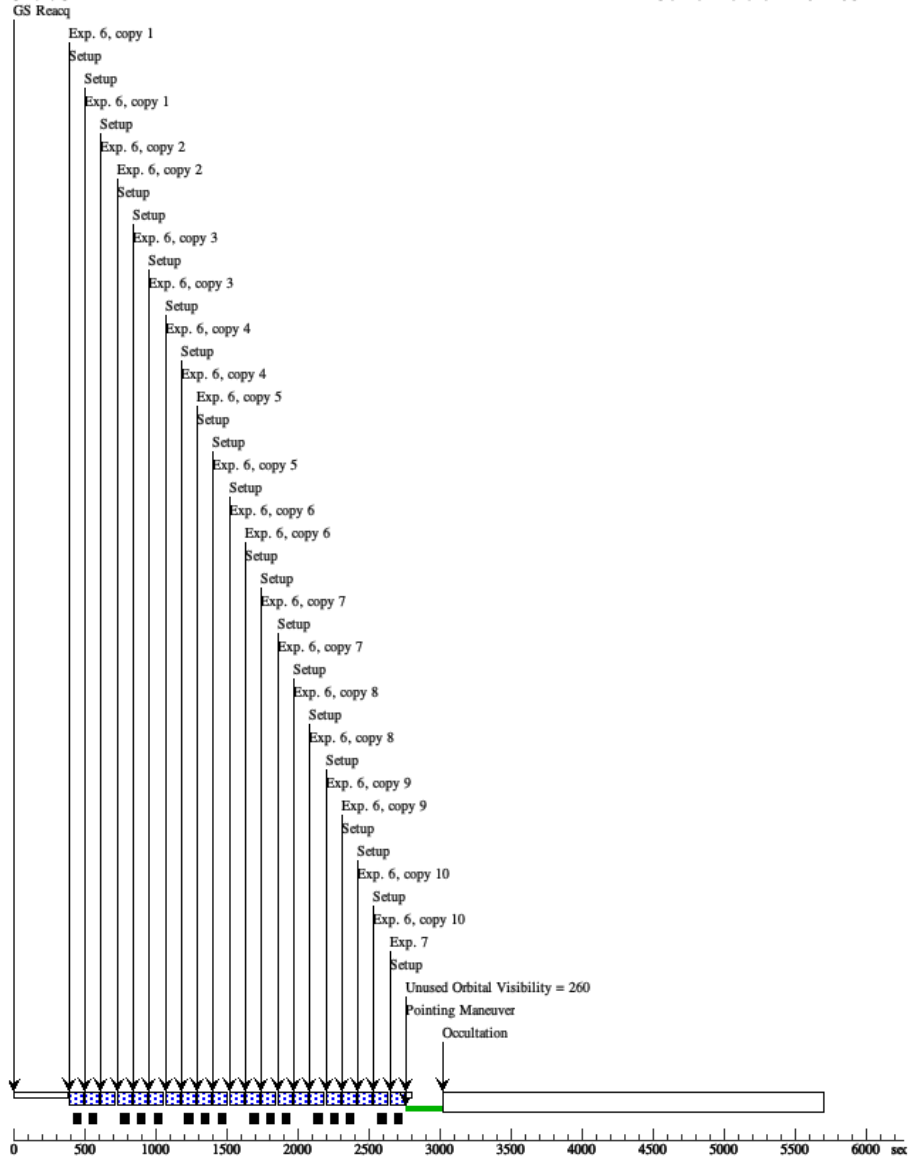
10	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Round trip	Sequence 10-11 Non -Int in KELT-20b W FC3-eclipse (13)	69.61678 Secs X 10 (1392.336 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)] [==>(Copy 8, Forward)] [==>(Copy 8, Reverse)] [==>(Copy 9, Forward)] [==>(Copy 9, Reverse)] [==>(Copy 10, Forward)] [==>(Copy 10, Reverse)]	[5]
11	(1) HD-185603B	WFC3/IR, MULTIACCUM, GRISM512	G141	NSAMP=4; SAMP-SEQ=SPAR S25	POS TARG -25,-27; SPATIAL SCAN 0.7 01903,90.0 Degrees, Forward	Sequence 10-11 Non -Int in KELT-20b W FC3-eclipse (13)	69.61678 Secs (69.617 Secs) [==>]	[5]

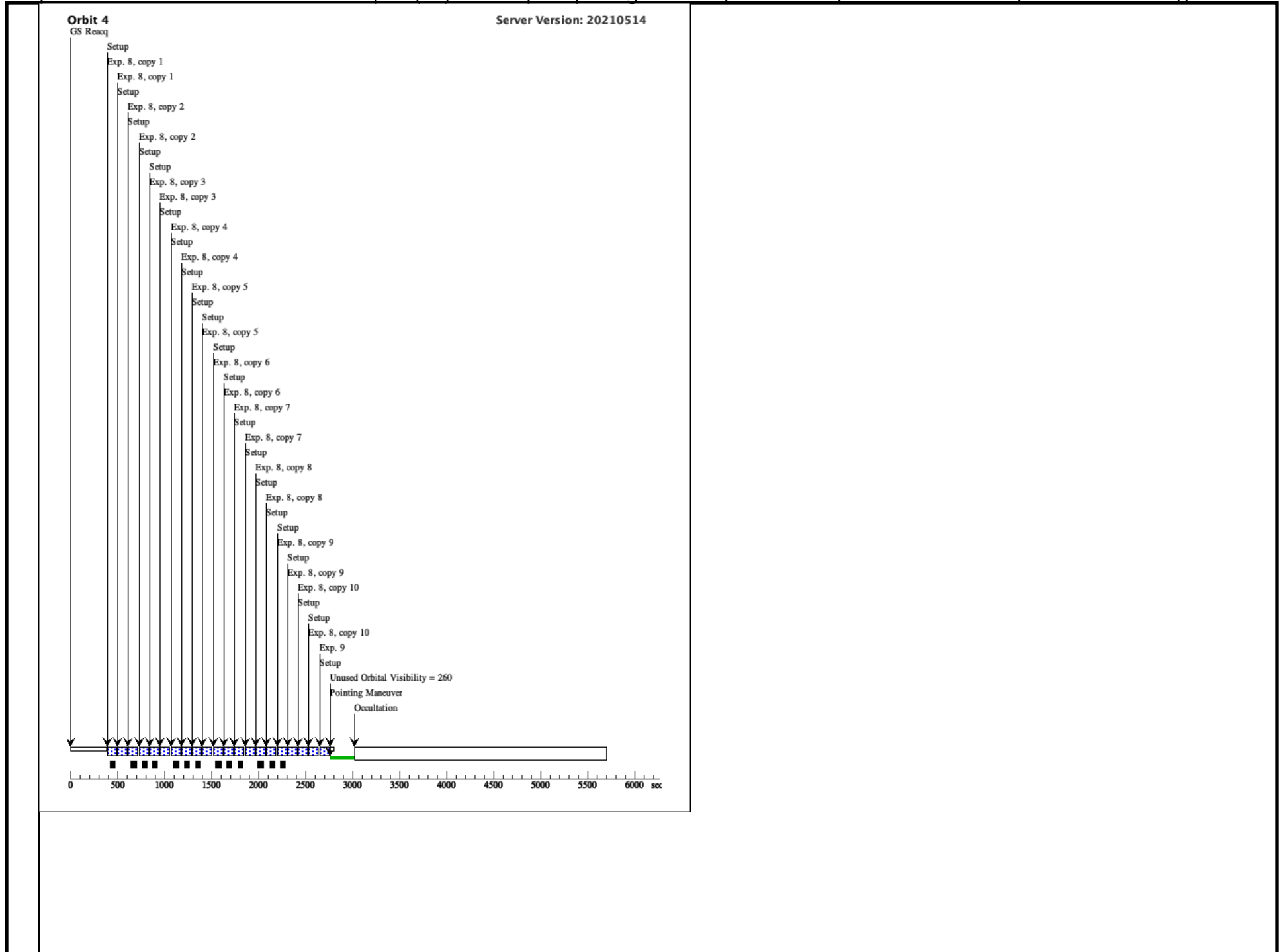


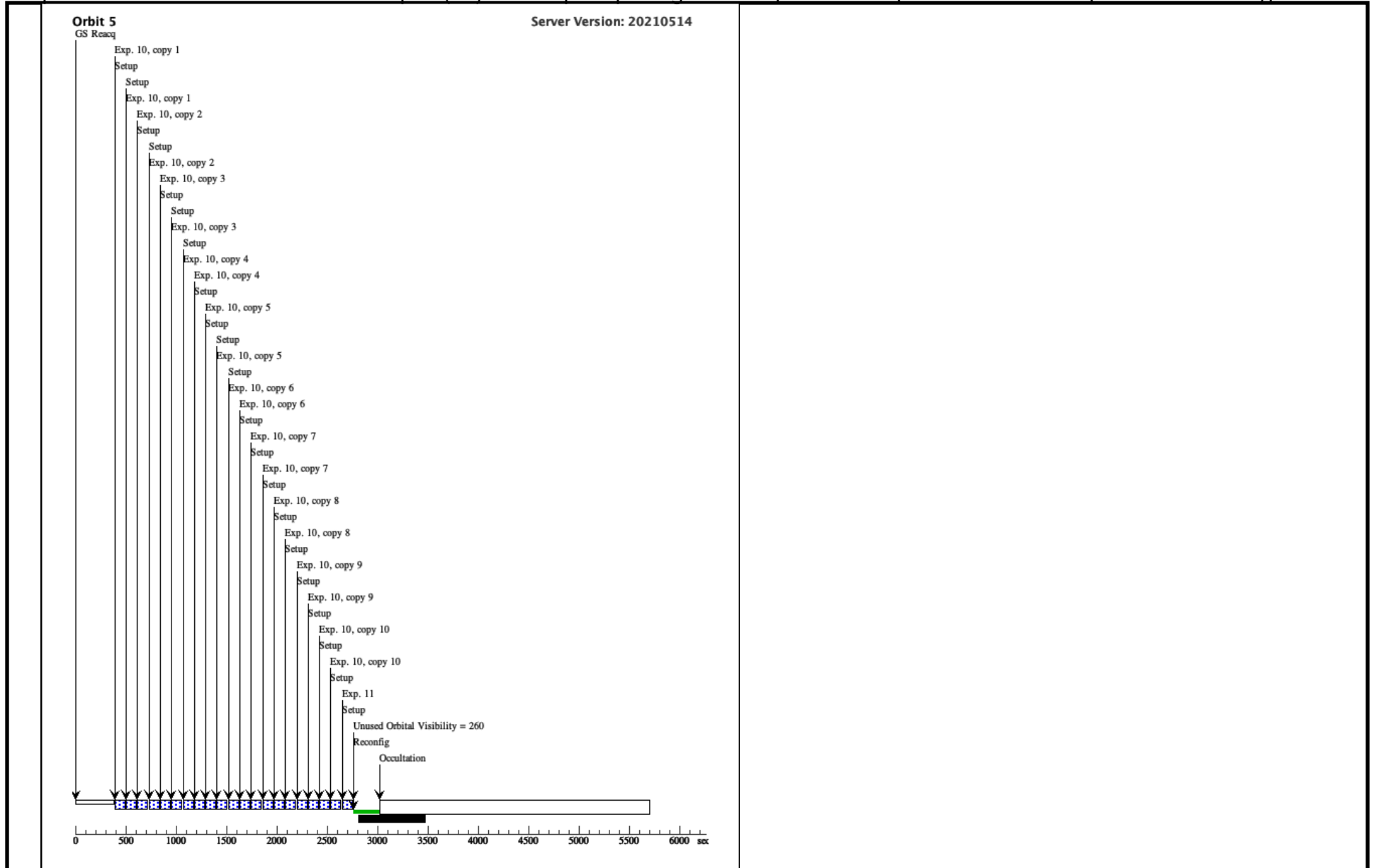


Orbit 3

Server Version: 20210514







Proposal 16307 - HAT-P-70b WFC3-eclipse (04) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host...

Visit	Proposal 16307, HAT-P-70b WFC3-eclipse (04), completed Thu Jul 22 14:01:35 GMT 2021 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 70%; Period 2.74432452 D AND ZERO-PHASE HJD2458439.57519					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(2)		HAT-P-70B	RA: 04 58 12.5627 (74.5523446d) Dec: +09 59 52.80 (9.99800d) Equinox: J2000	Proper Motion RA: -2.6574487073233404 mas/yr Proper Motion Dec: -4.9963436266385814 mas/yr Epoch of Position: 2015.5	V=9.5	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[EXTRA-SOLAR PLANET]						

Proposal 16307 - HAT-P-70b WFC3-eclipse (04) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host...

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	(WFC3IR.im.1452695)	(2) HAT-P-70B	WFC3/IR, MULTIACCUM, GRISM256	F126N	NSAMP=5; SAMP-SEQ=RAPID	PHASE 0.442805 TO 0.447866	Sequence 1-2 Non-Int in HAT-P-70b WFC3-eclipse (04)	1.389075 Secs (1.389 Secs) [==>]	[1]
	2		(2) HAT-P-70B	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=7; SAMP-SEQ=SPARS25	POS TARG 0,-13; SPATIAL SCAN 0.151579,90.0 Degrees, Round trip	Sequence 1-2 Non-Int in HAT-P-70b WFC3-eclipse (04)	134.354049 Secs X 7 (1880.957 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)]	[1]
	3		(2) HAT-P-70B	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=7; SAMP-SEQ=SPARS25	POS TARG 0,-13; SPATIAL SCAN 0.151579,90.0 Degrees, Round trip	Sequence 3-3 Non-Int in HAT-P-70b WFC3-eclipse (04)	134.354049 Secs X 7 (1880.957 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)]	[2]

Proposal 16307 - HAT-P-70b WFC3-eclipse (04) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host...

4	(2) HAT-P-70B	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=7; SAMP-SEQ=SPAR S25	POS TARG 0,-13; SPATIAL SCAN 0.1 51579,90.0 Degrees, Round trip	Sequence 4-4 Non-Int in HAT-P-70b WFC3-eclipse (04)	134.354049 Secs X 7 (1880.957 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)]	[3]
5	(2) HAT-P-70B	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=7; SAMP-SEQ=SPAR S25	POS TARG 0,-13; SPATIAL SCAN 0.1 51579,90.0 Degrees, Round trip	Sequence 5-5 Non-Int in HAT-P-70b WFC3-eclipse (04)	134.354049 Secs X 7 (1880.957 Secs) [==>(Copy 1, Forward)] [==>(Copy 1, Reverse)] [==>(Copy 2, Forward)] [==>(Copy 2, Reverse)] [==>(Copy 3, Forward)] [==>(Copy 3, Reverse)] [==>(Copy 4, Forward)] [==>(Copy 4, Reverse)] [==>(Copy 5, Forward)] [==>(Copy 5, Reverse)] [==>(Copy 6, Forward)] [==>(Copy 6, Reverse)] [==>(Copy 7, Forward)] [==>(Copy 7, Reverse)]	[4]

Proposal 16307 - HAT-P-70b WFC3-eclipse (04) - 'A' Gap: Exploring the new parameter space of ultra hot Jupiters around A-type host...

6	(2) HAT-P-70B	WFC3/IR, MULTIACCUM, GRISM256	G141	NSAMP=7; SAMP-SEQ=SPAR S25	POS TARG 0,-13; SPATIAL SCAN 0.1 51579,90.0 Degrees, Round trip	Sequence 6-6 Non-Int in HAT-P-70b WFC3-eclipse (04)	134.354049 Secs X 7 (1880.957 Secs) [=>(Copy 1, Forward)] [=>(Copy 1, Reverse)] [=>(Copy 2, Forward)] [=>(Copy 2, Reverse)] [=>(Copy 3, Forward)] [=>(Copy 3, Reverse)] [=>(Copy 4, Forward)] [=>(Copy 4, Reverse)] [=>(Copy 5, Forward)] [=>(Copy 5, Reverse)] [=>(Copy 6, Forward)] [=>(Copy 6, Reverse)] [=>(Copy 7, Forward)] [=>(Copy 7, Reverse)]	[5]
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