



## 11970 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

Cycle: 16, Proposal Category: GO  
(Availability Mode: SUPPORTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Prof. John T. Clarke (PI)</b>	<b>Boston University</b>	<b>jclarke@bu.edu</b>
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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	(2) TITAN-TRANSIT	ACS/SBC	3	12-Jan-2009 21:21:40.0	yes
02	(3) TITAN-POST-INF-CONJ (4) SKY-NEAR-TITAN	ACS/SBC	5	12-Jan-2009 21:22:00.0	yes
03	(3) TITAN-POST-INF-CONJ	ACS/SBC	5	12-Jan-2009 21:22:20.0	yes
04	(1) TITAN-PRE-INF-CONJ	ACS/SBC	5	12-Jan-2009 21:22:37.0	yes
05	(2) TITAN-TRANSIT	ACS/SBC	3	12-Jan-2009 21:22:51.0	yes
06	(3) TITAN-POST-INF-CONJ	ACS/SBC	5	12-Jan-2009 21:23:03.0	yes

26 Total Orbits Used

**ABSTRACT**

We propose UV observations using the ACS/SBC of Titan's extended escaping atmosphere for the Jan/Feb 2009 period of transits of Titan across Saturn. A combination of absorption of Saturn's reflected solar UV emission in transit, and extended emissions primarily from H atoms away from transit, will yield new information about the structure of Titan's extended upper atmosphere. These observations are expected to provide new constraints on theoretical models for a hydrodynamic flow of species through Titan's exobase level, resulting from the interpretation of recent Cassini measurements at Titan.

**OBSERVING DESCRIPTION**

tbd

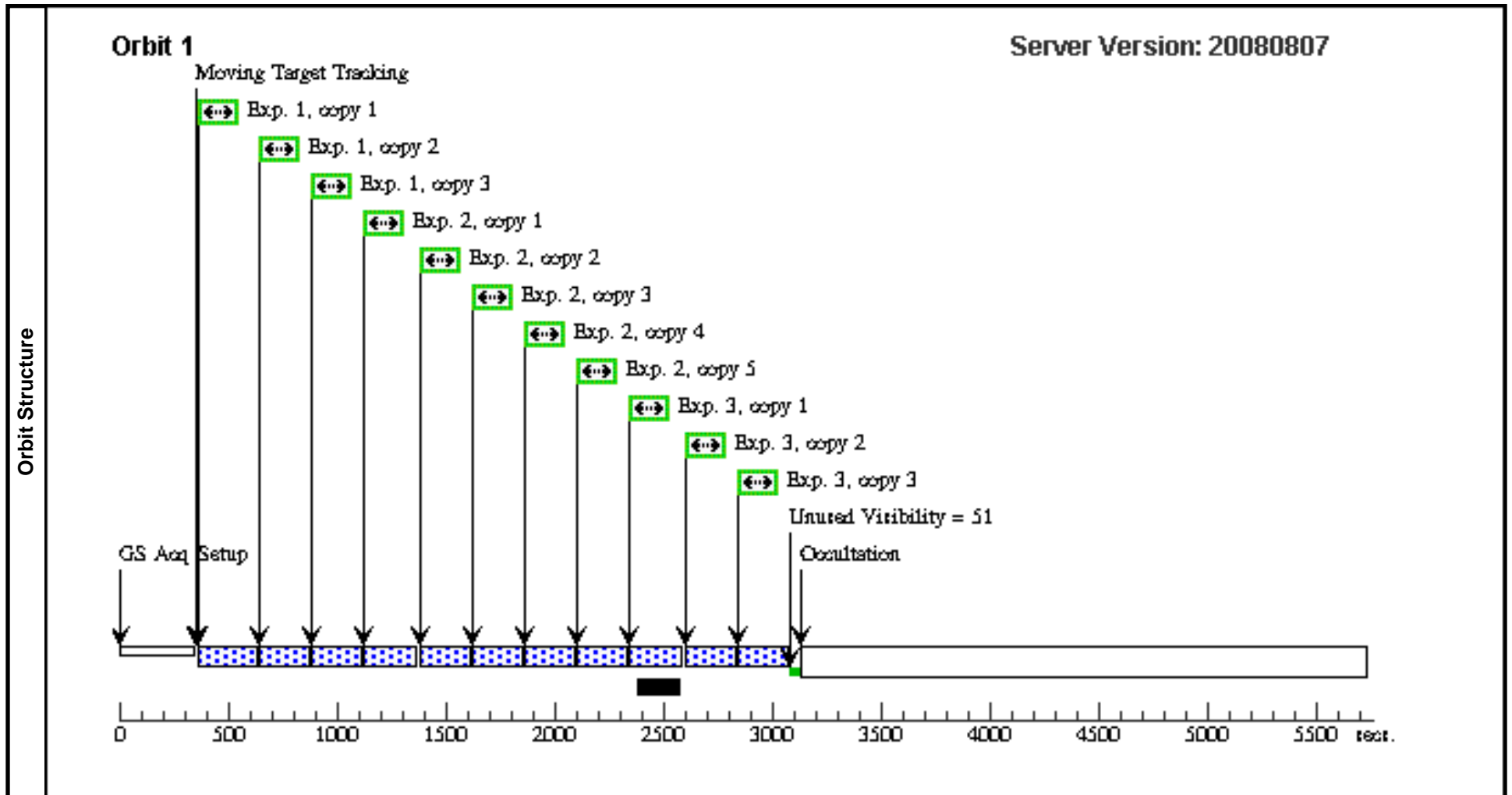
Proposal 11970 - Visit 01 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

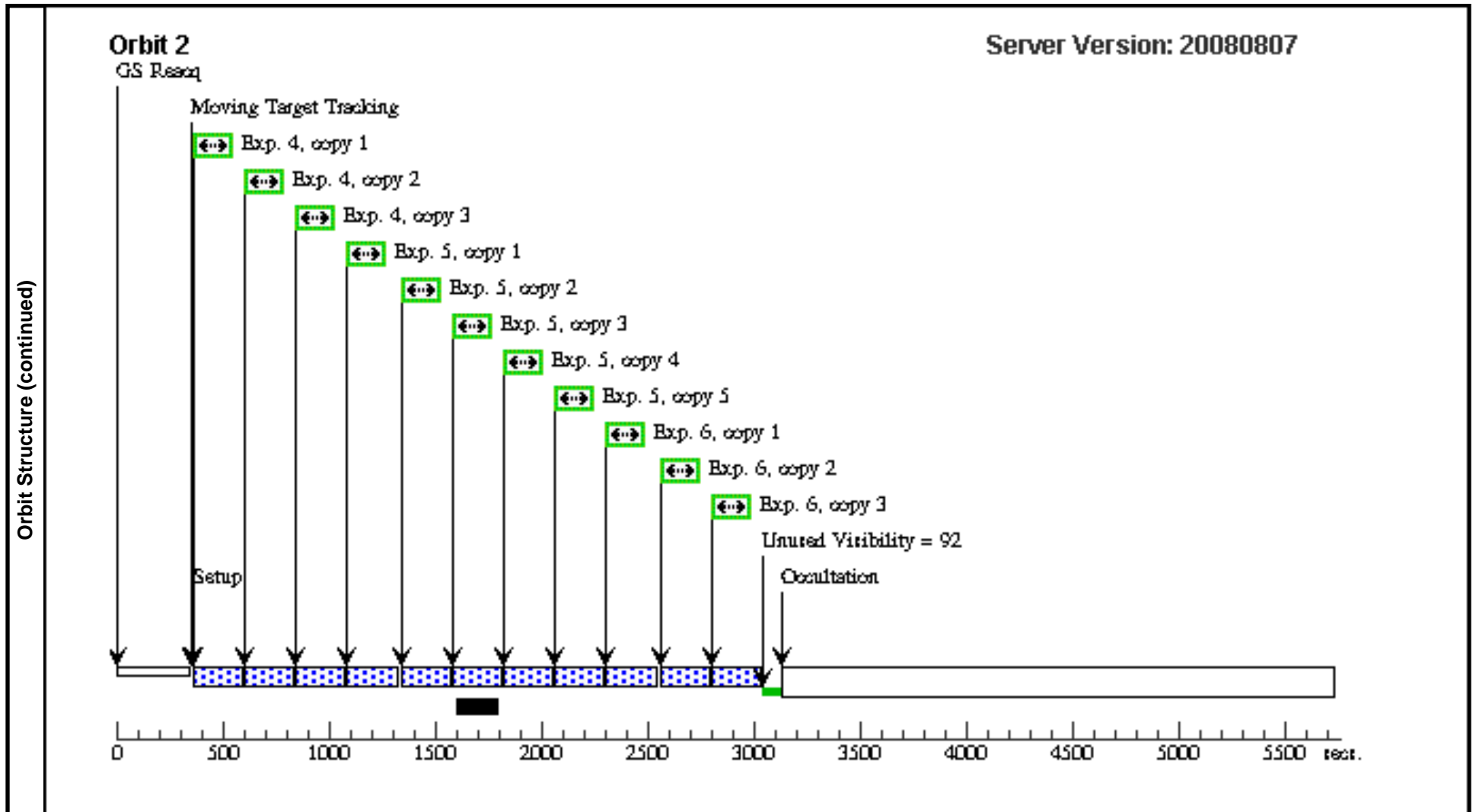
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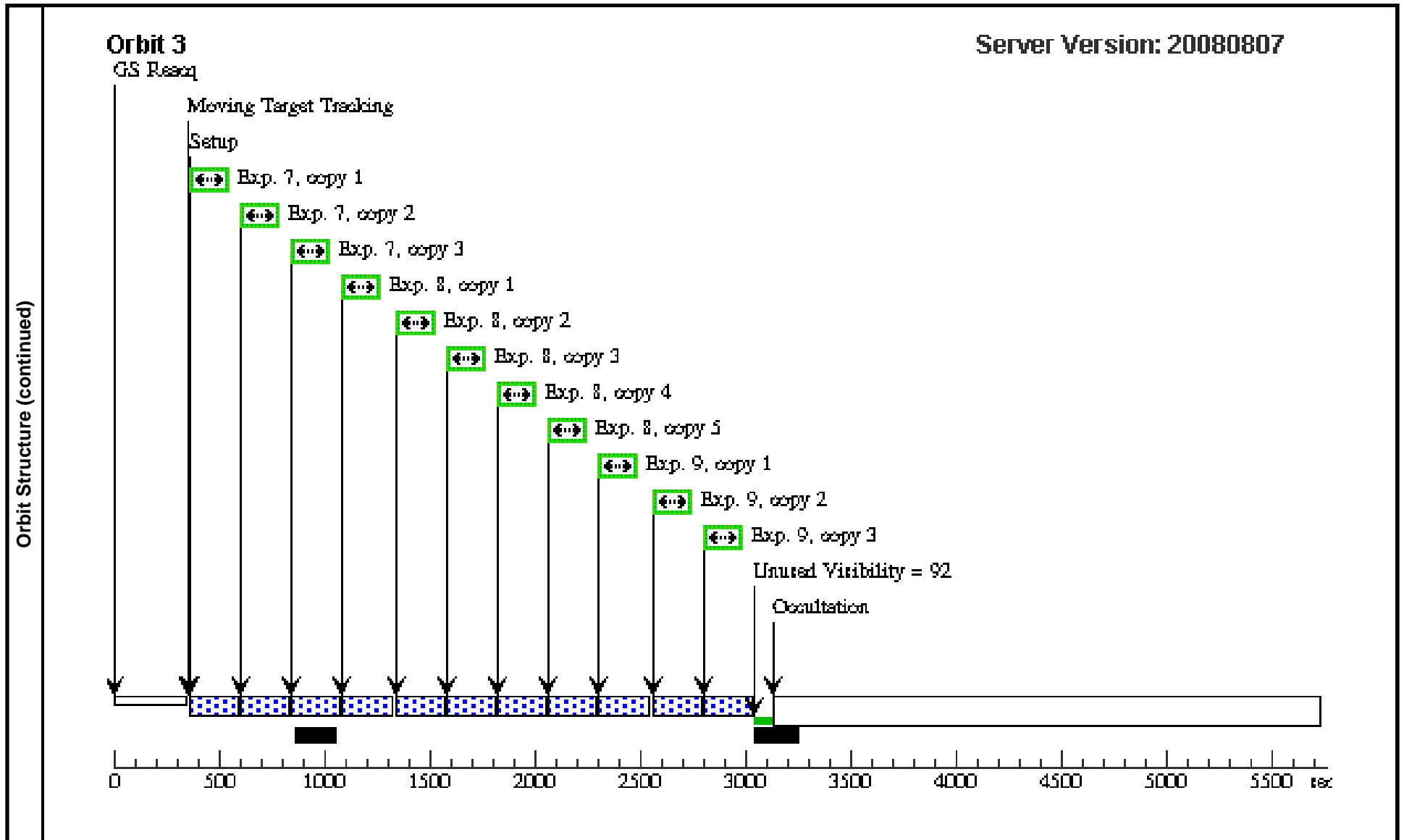
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	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center		
	(2)	TITAN-TRANSIT	STD=SATURN	STD=TITAN				EARTH		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	2		(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 5 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)]	[1]
	3		(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	4		(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[2]
	5		(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 5 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)]	[2]

Proposal 11970 - Visit 01 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
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	7	(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F125LP					200 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[3]
	8	(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F115LP					200 Secs X 5 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)]	[3]
	9	(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F125LP					200 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[3]







Proposal 11970 - Visit 02 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

Tue Jan 13 02:23:12 GMT 2009

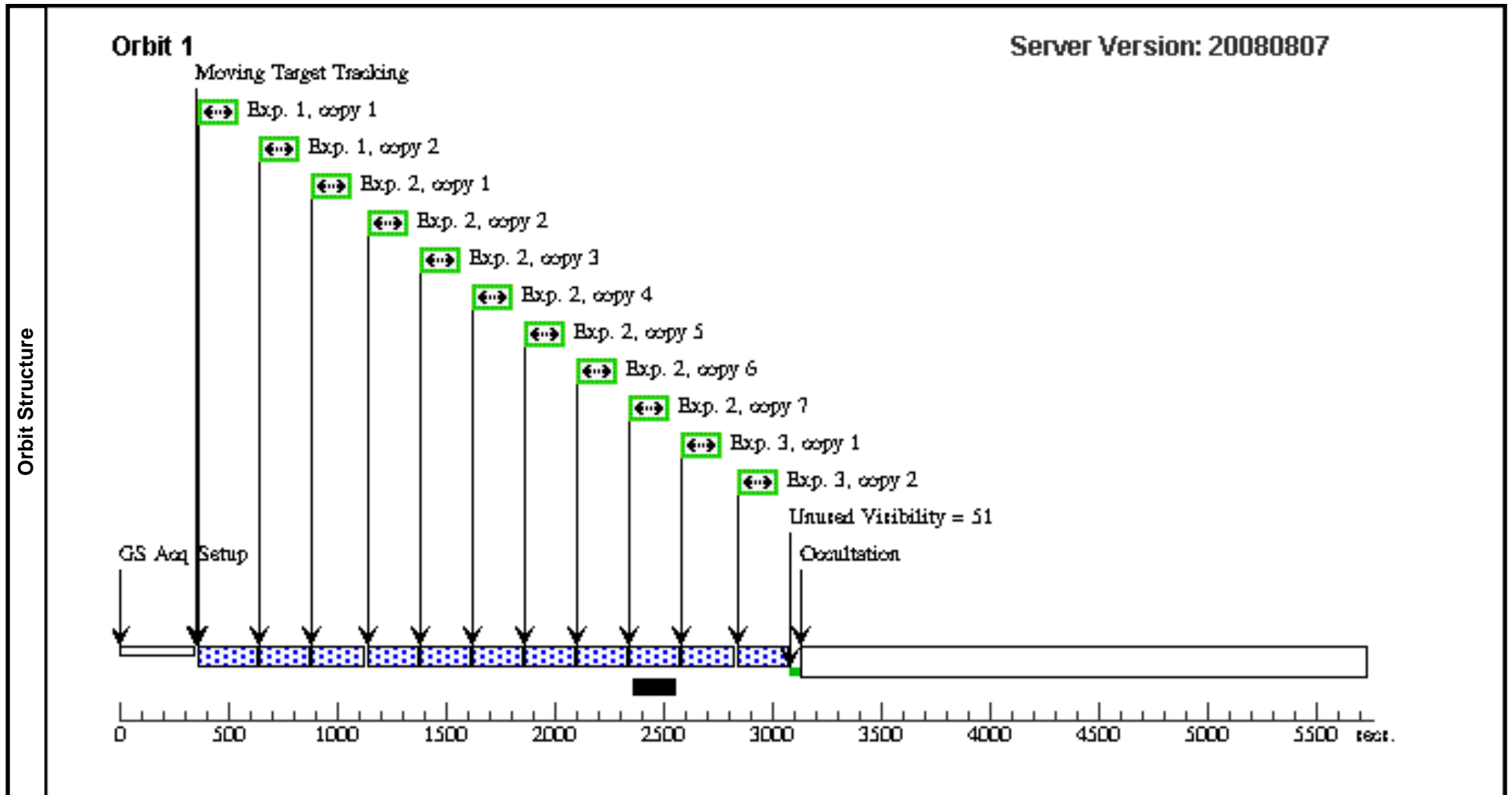
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	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center		
	(3)	TITAN-POST-INF-CONJ	STD=SATURN	STD=TITAN				EARTH		
	(4)	SKY-NEAR-TITAN	STD=SATURN	STD=TITAN	TYPE=POS_ANGLE,RAD=300.,ANG=0.,REF=NORTH			EARTH		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP		GS ACQ SCENARI O BASE1TN3		200 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[1]
	2		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 7 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[1]
	3		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[1]
	4		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[2]

Proposal 11970 - Visit 02 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

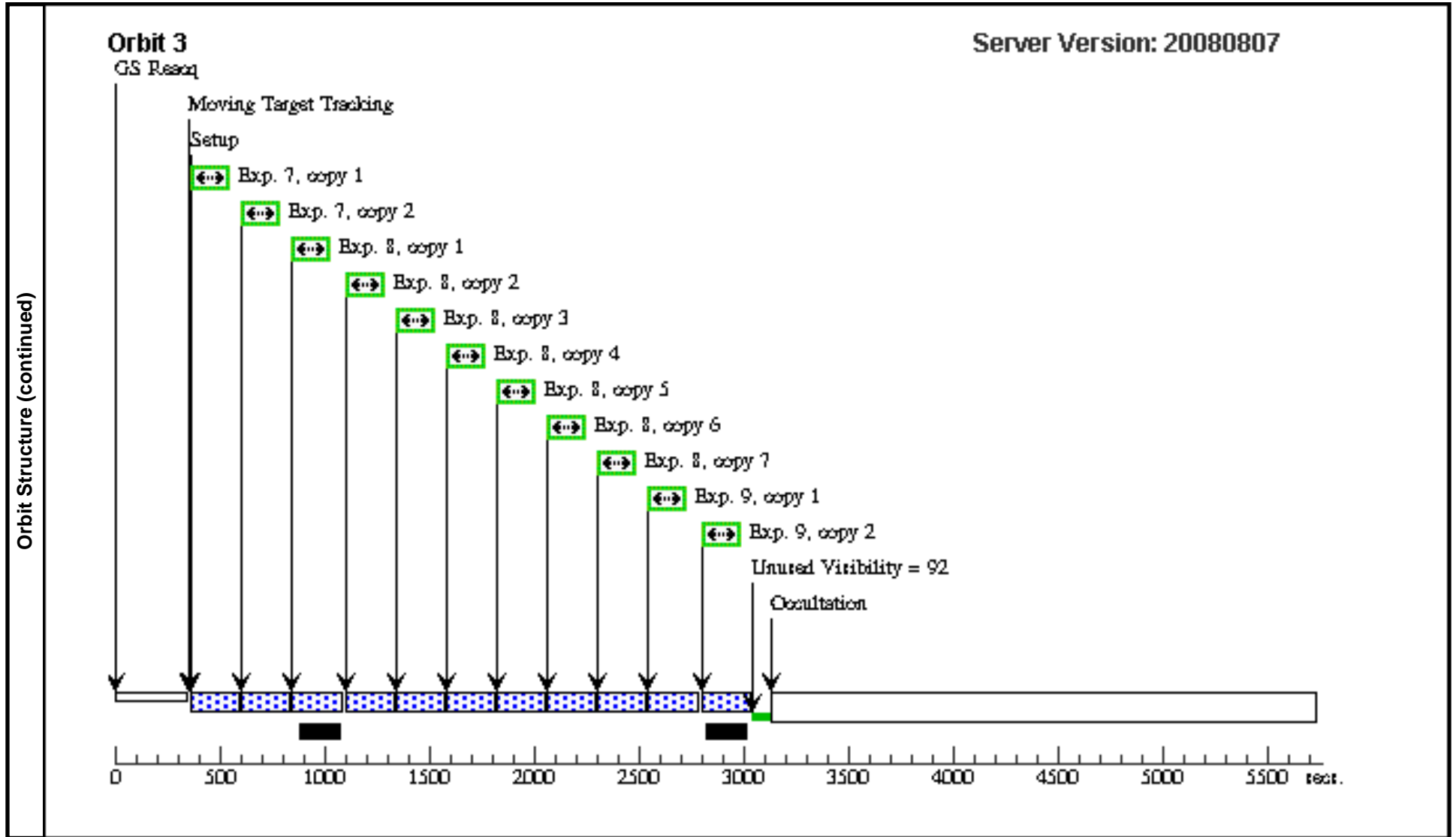
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								[==>(Copy 5)]	
								[==>(Copy 6)]	
[==>(Copy 7)]									
6		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[2]
								[==>(Copy 1)]	
								[==>(Copy 2)]	
7		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[3]
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8		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 7	[3]
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								[==>(Copy 5)]	
								[==>(Copy 6)]	
[==>(Copy 7)]									
9		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[3]
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10		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[4]
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11		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 7	[4]
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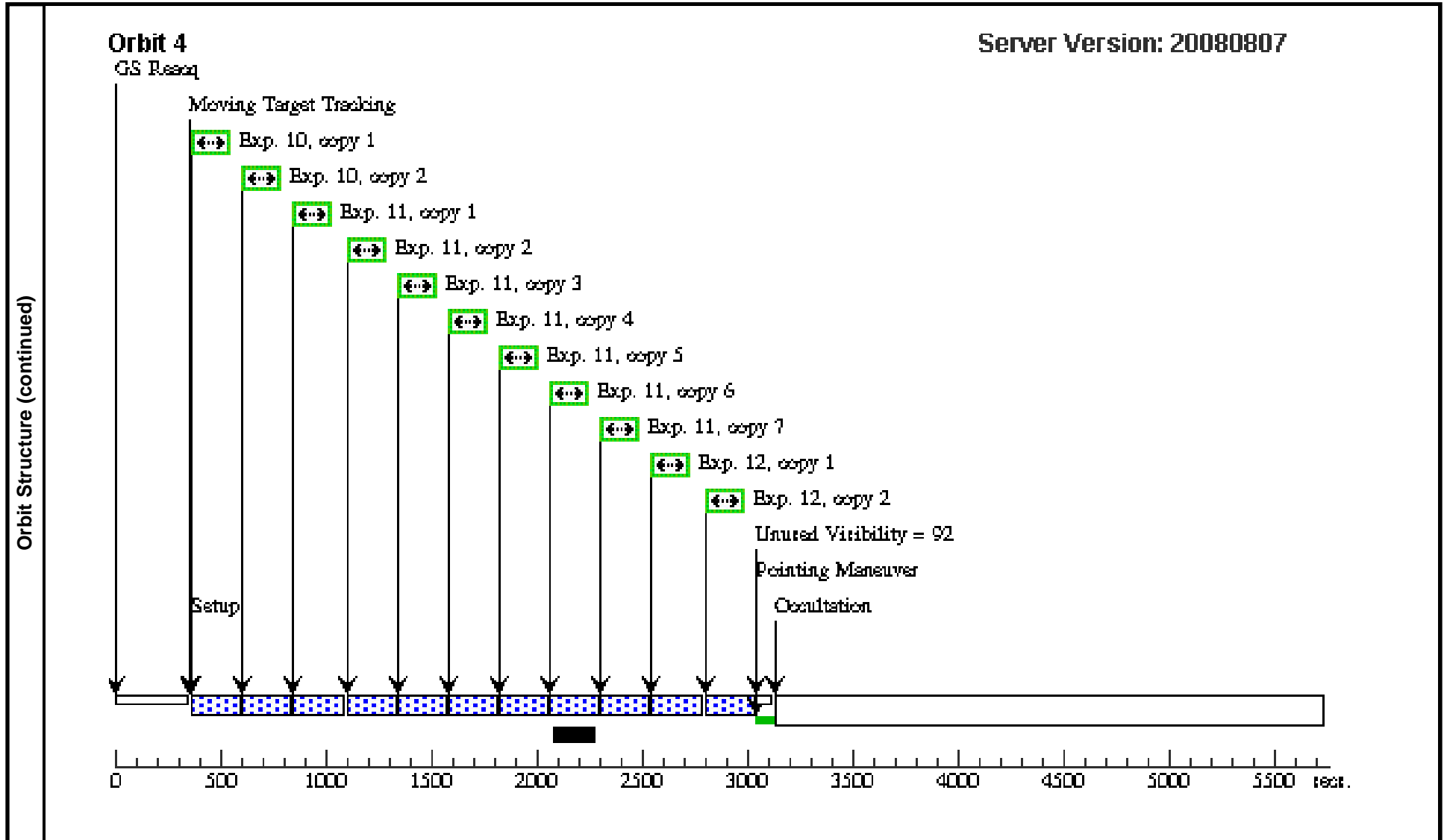
Proposal 11970 - Visit 02 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

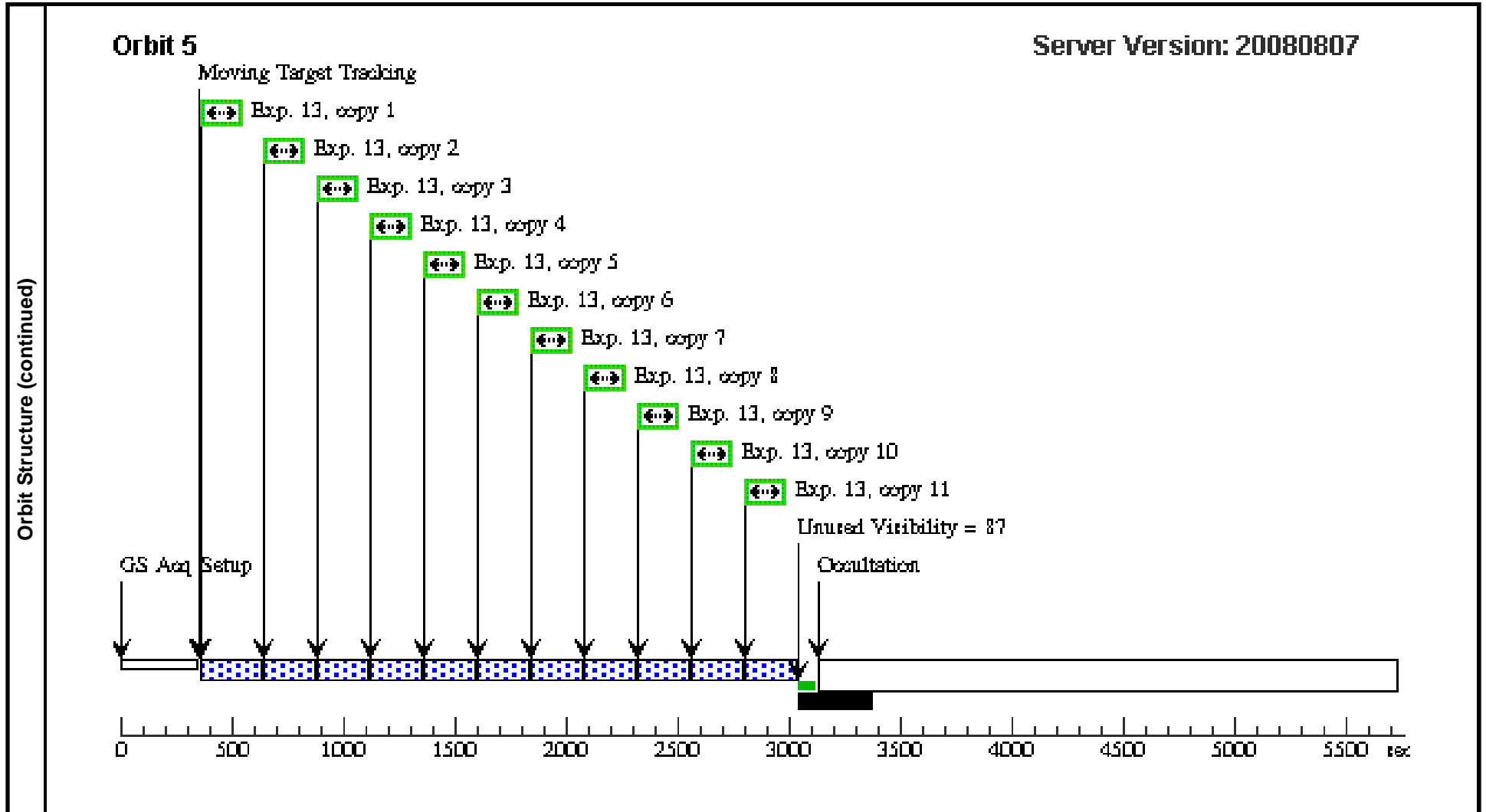
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Exposures (continued)	12	(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[4]
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Exposures (continued)	13	(4) SKY-NEAR-TIT AN	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 11	[5]
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Proposal 11970 - Visit 03 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

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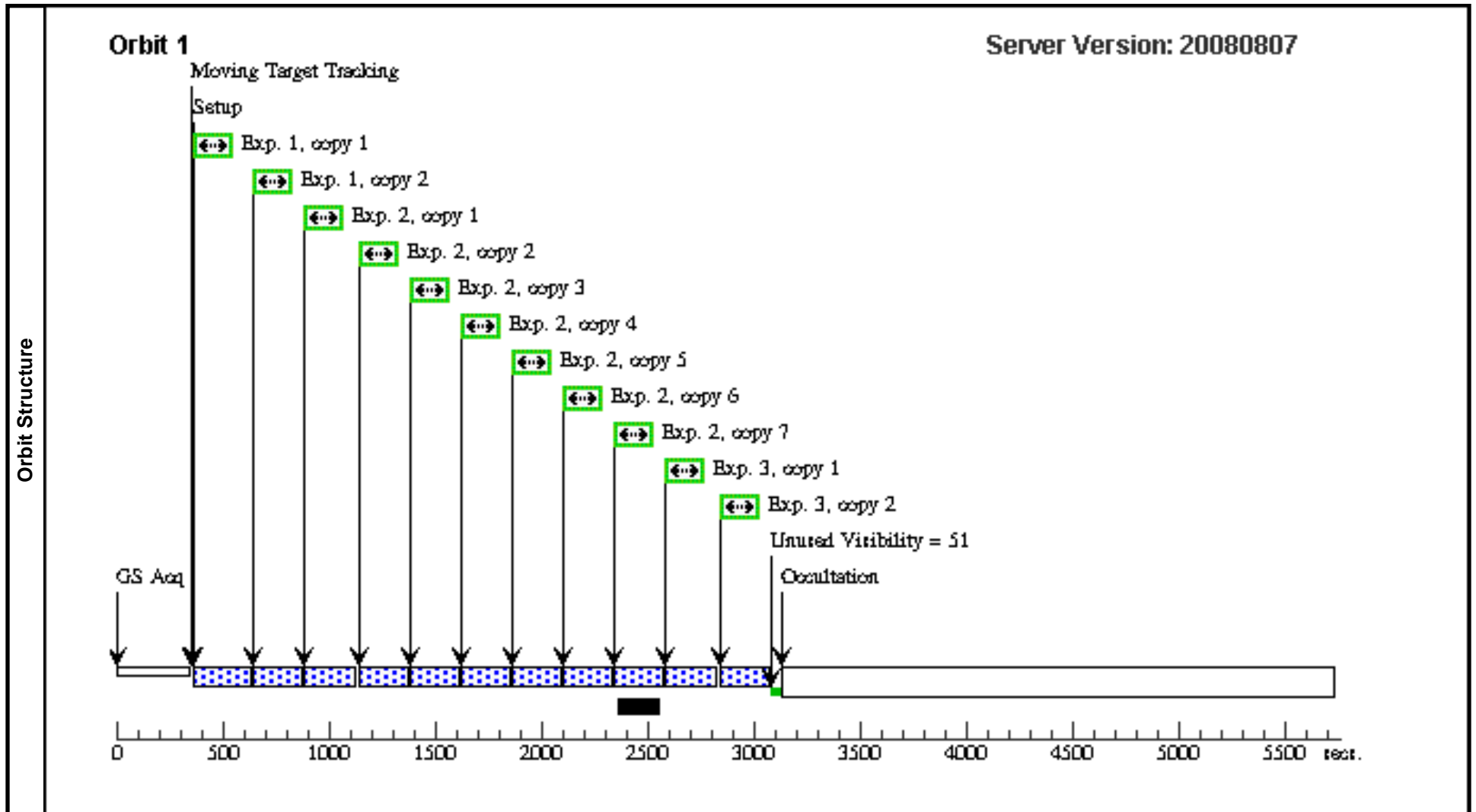
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	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center		
	(3)	TITAN-POST-INF-CONJ	STD=SATURN	STD=TITAN				EARTH		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP					200 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[1]
	2	(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP					200 Secs X 7 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[1]
	3	(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP					200 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[1]
	4	(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP					200 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[2]

Proposal 11970 - Visit 03 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

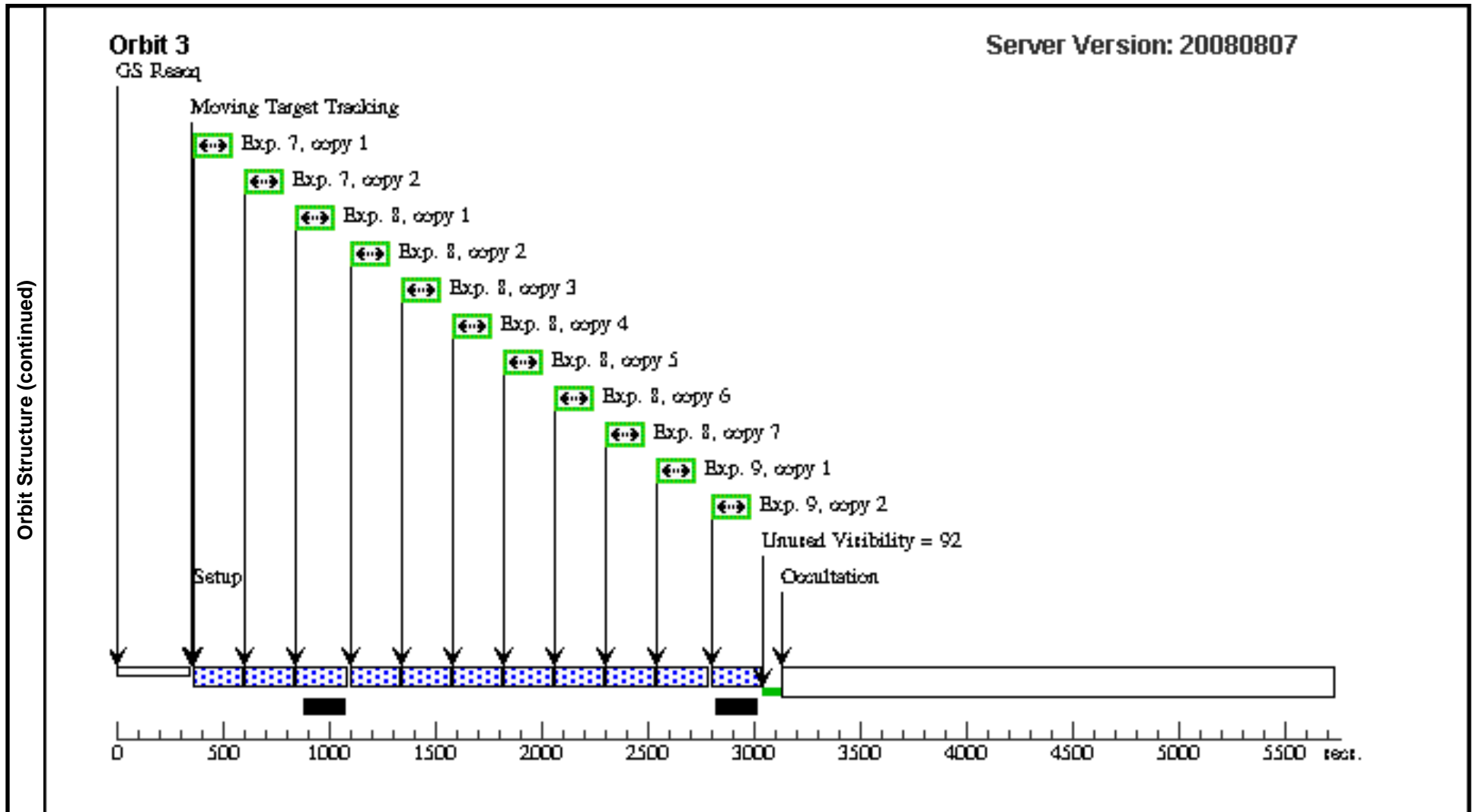
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5		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 7	[2]
								[==>(Copy 1)]	
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								[==>(Copy 3)]	
								[==>(Copy 4)]	
								[==>(Copy 5)]	
								[==>(Copy 6)]	
[==>(Copy 7)]									
6		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[2]
								[==>(Copy 1)]	
								[==>(Copy 2)]	
7		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[3]
								[==>(Copy 1)]	
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8		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 7	[3]
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								[==>(Copy 3)]	
								[==>(Copy 4)]	
								[==>(Copy 5)]	
								[==>(Copy 6)]	
[==>(Copy 7)]									
9		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[3]
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10		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[4]
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11		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 7	[4]
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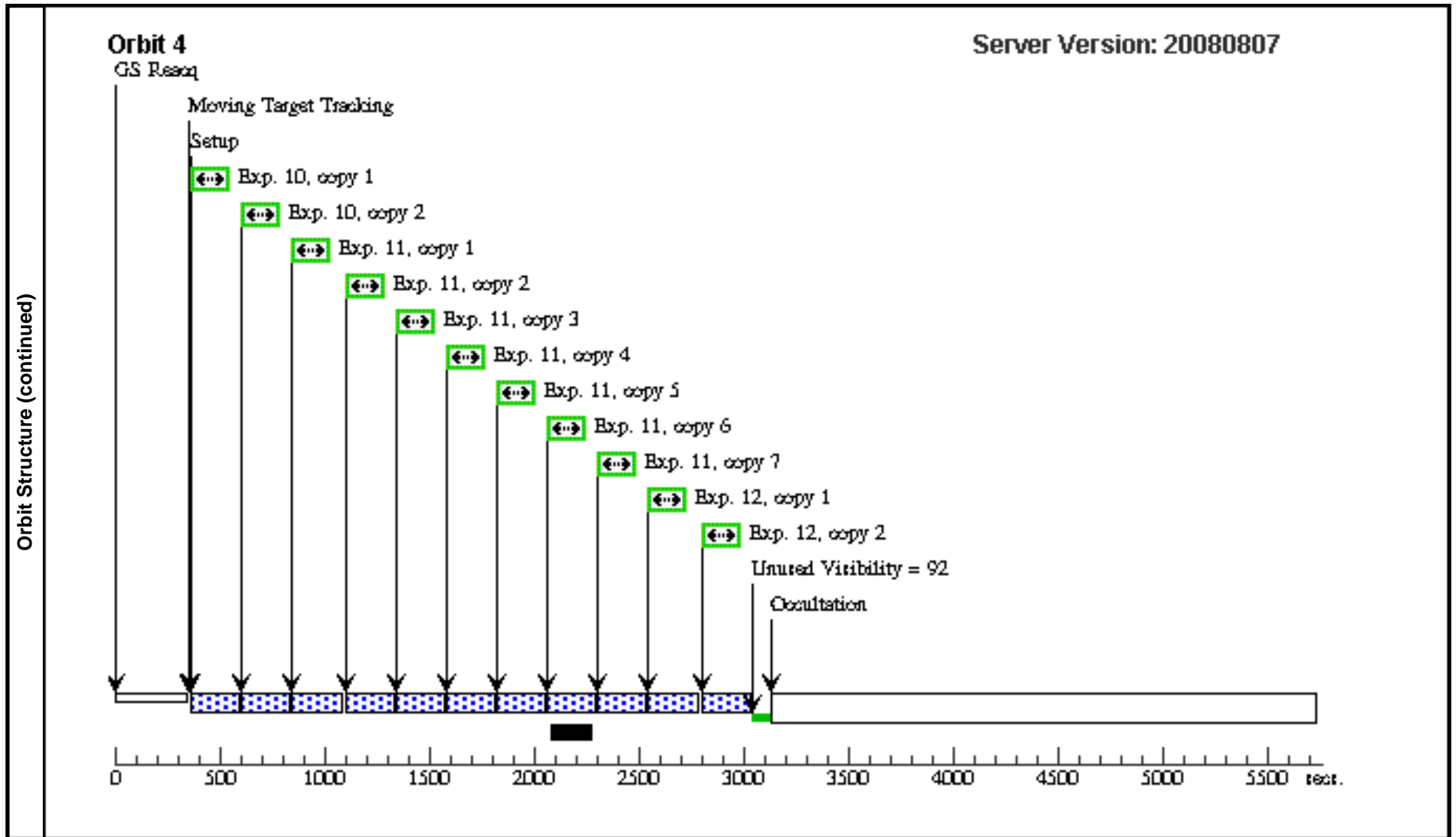
Proposal 11970 - Visit 03 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

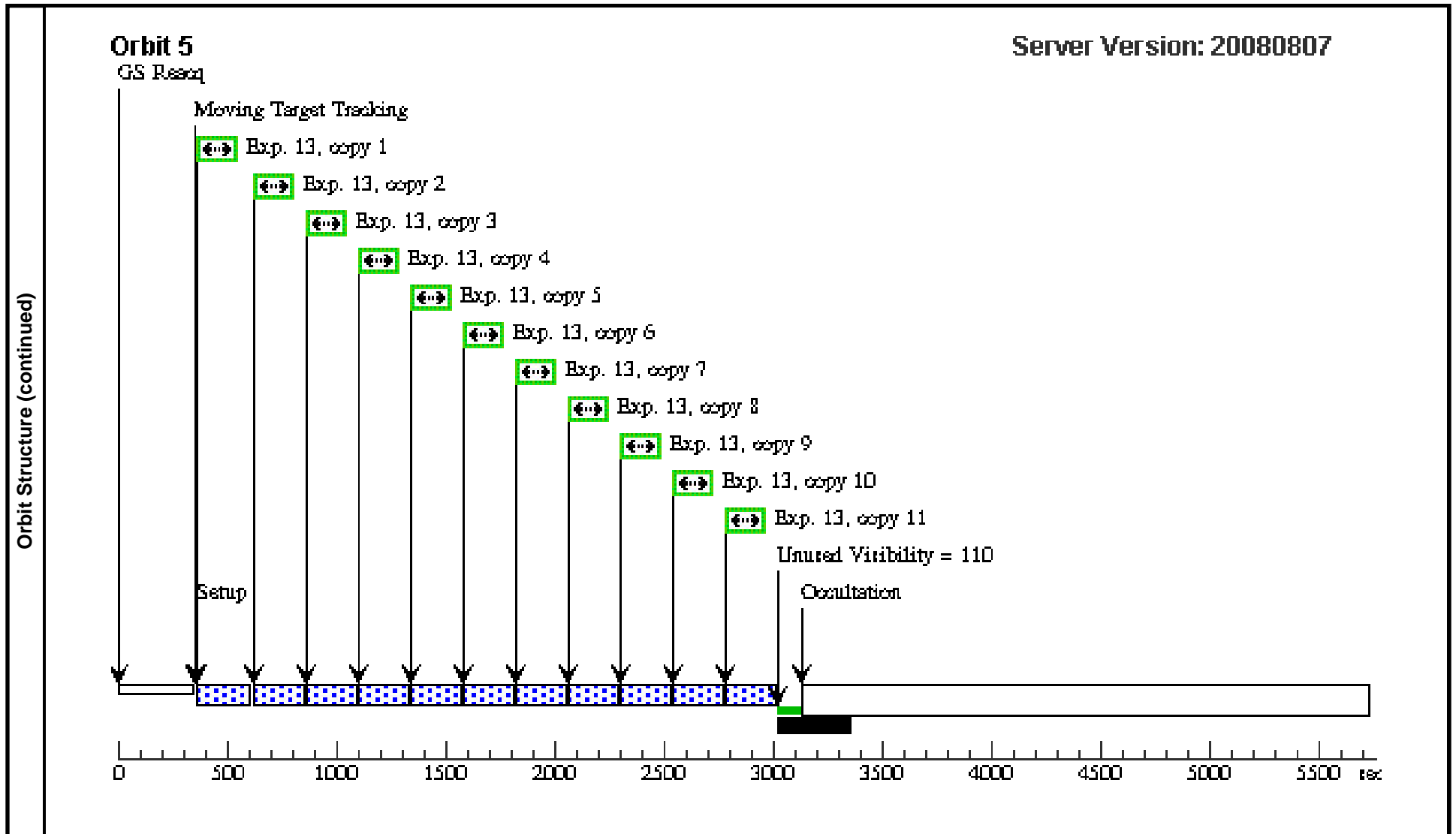
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13	(3) TITAN-POST-IN F-CONJ	(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 11 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)]	[5]	











Proposal 11970 - Visit 04 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

Tue Jan 13 02:23:15 GMT 2009

Visit	<b>Proposal 11970, Visit 04, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: BETWEEN 04-FEB-2009:00:00:00 AND 08-FEB-2009:10:00:00 <i>Comments: Titan away from Saturn pre-transit.</i>									
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center		
	(1)	TITAN-PRE-INF-CONJ	STD=SATURN	STD=TITAN				EARTH		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) TITAN-PRE-INF-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[1]
	2		(1) TITAN-PRE-INF-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 7 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[1]
	3		(1) TITAN-PRE-INF-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[1]
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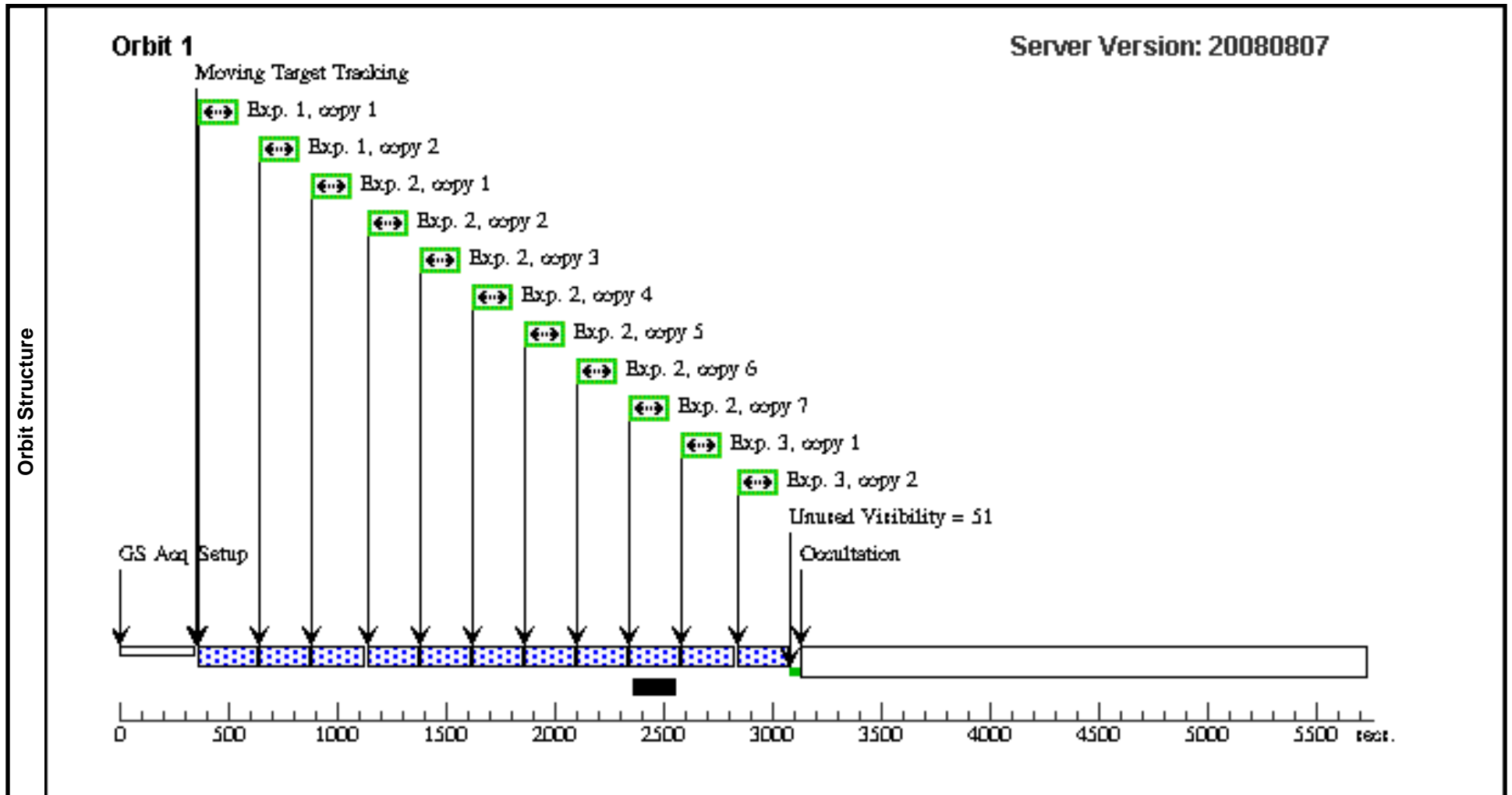
Proposal 11970 - Visit 04 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

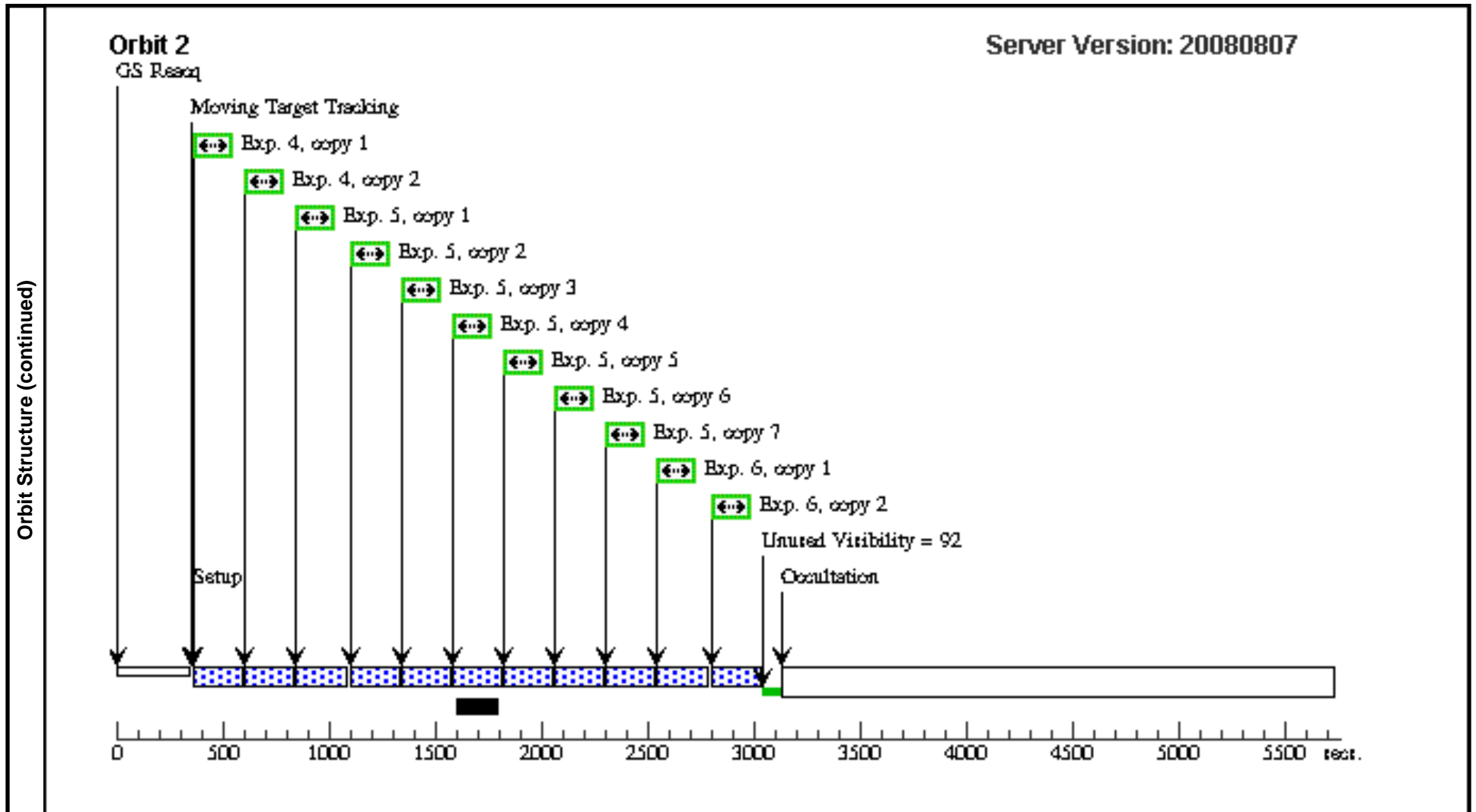
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
5		(1) TITAN-PRE-INF -CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 7	[2]
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								[==>(Copy 3)]	
								[==>(Copy 4)]	
								[==>(Copy 5)]	
								[==>(Copy 6)]	
[==>(Copy 7)]									
6		(1) TITAN-PRE-INF -CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[2]
								[==>(Copy 1)]	
7		(1) TITAN-PRE-INF -CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[3]
								[==>(Copy 1)]	
8		(1) TITAN-PRE-INF -CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 7	[3]
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9		(1) TITAN-PRE-INF -CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[3]
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10		(1) TITAN-PRE-INF -CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[4]
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11		(1) TITAN-PRE-INF -CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 7	[4]
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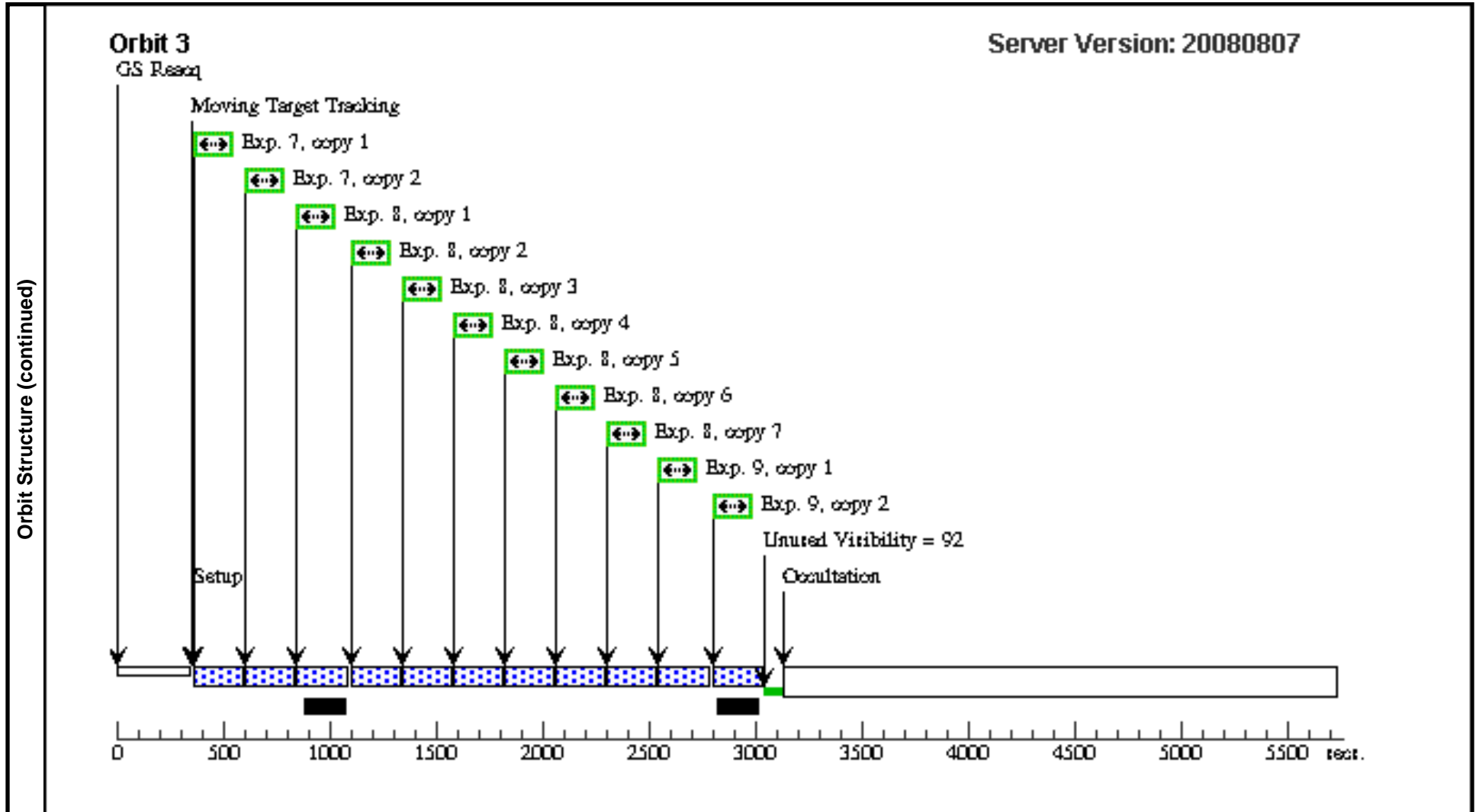
Exposures (continued)

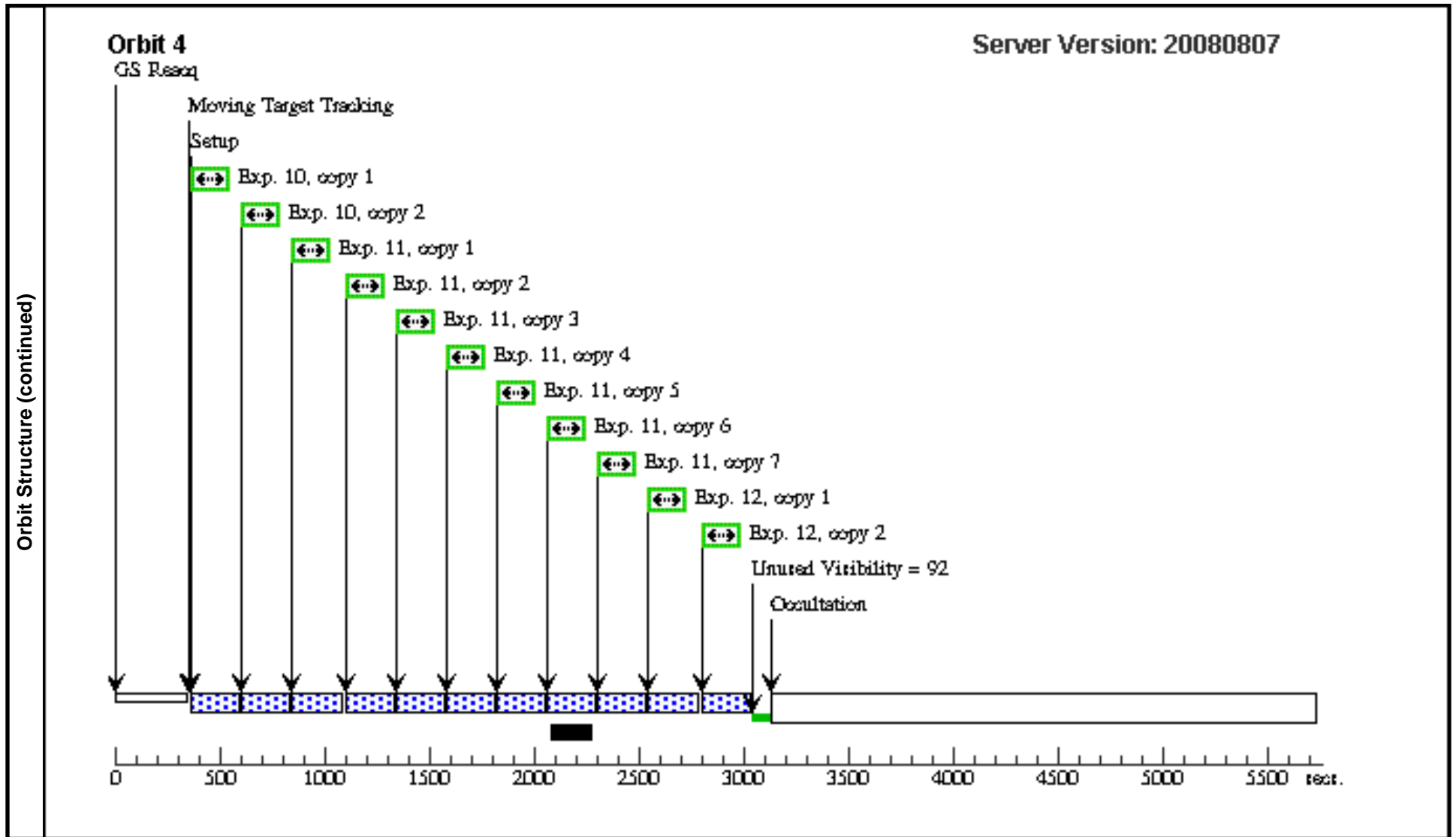
Proposal 11970 - Visit 04 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

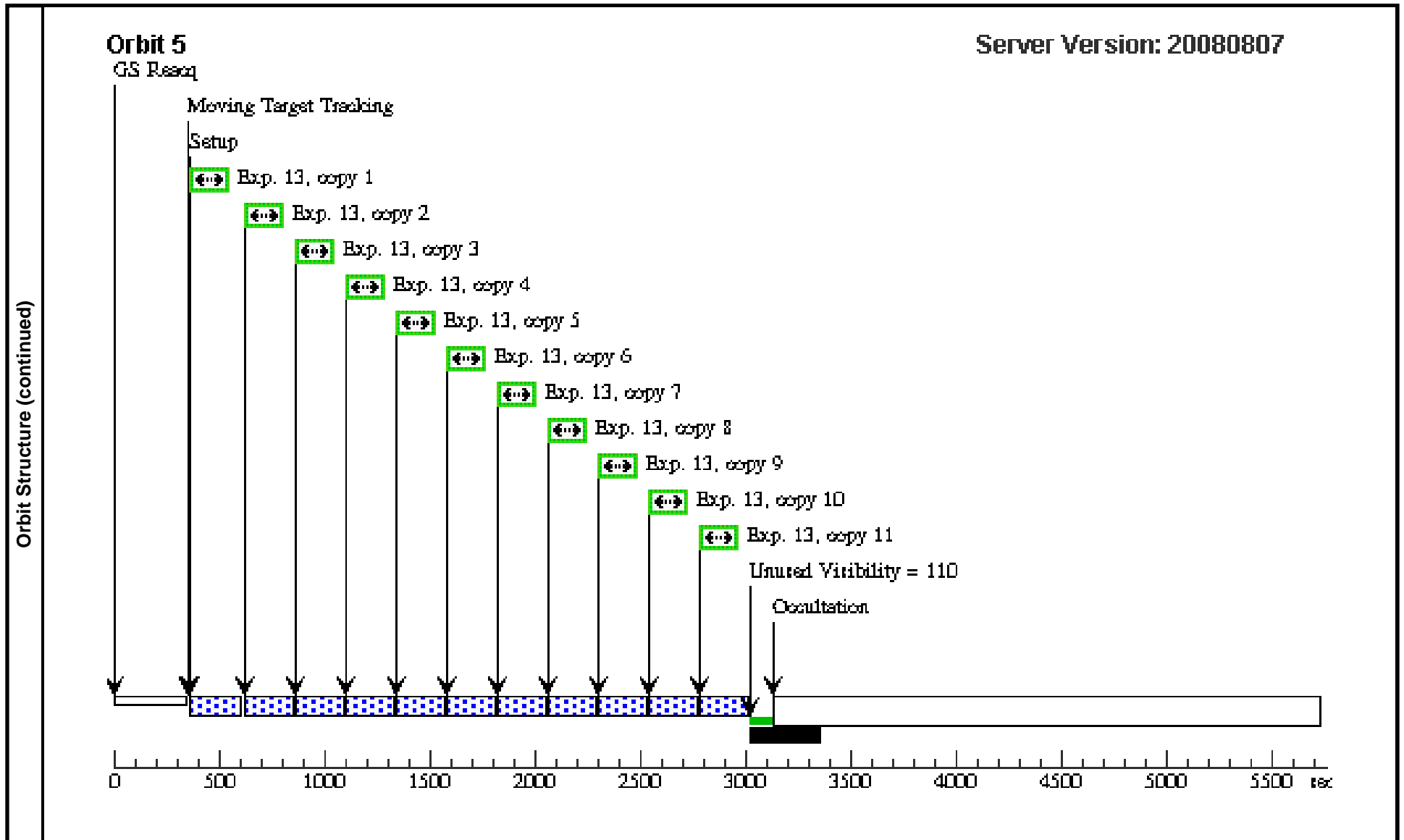
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Exposures (continued)	12	(1) TITAN-PRE-INF -CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[4]
	13	(1) TITAN-PRE-INF -CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 11 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)]	[5]











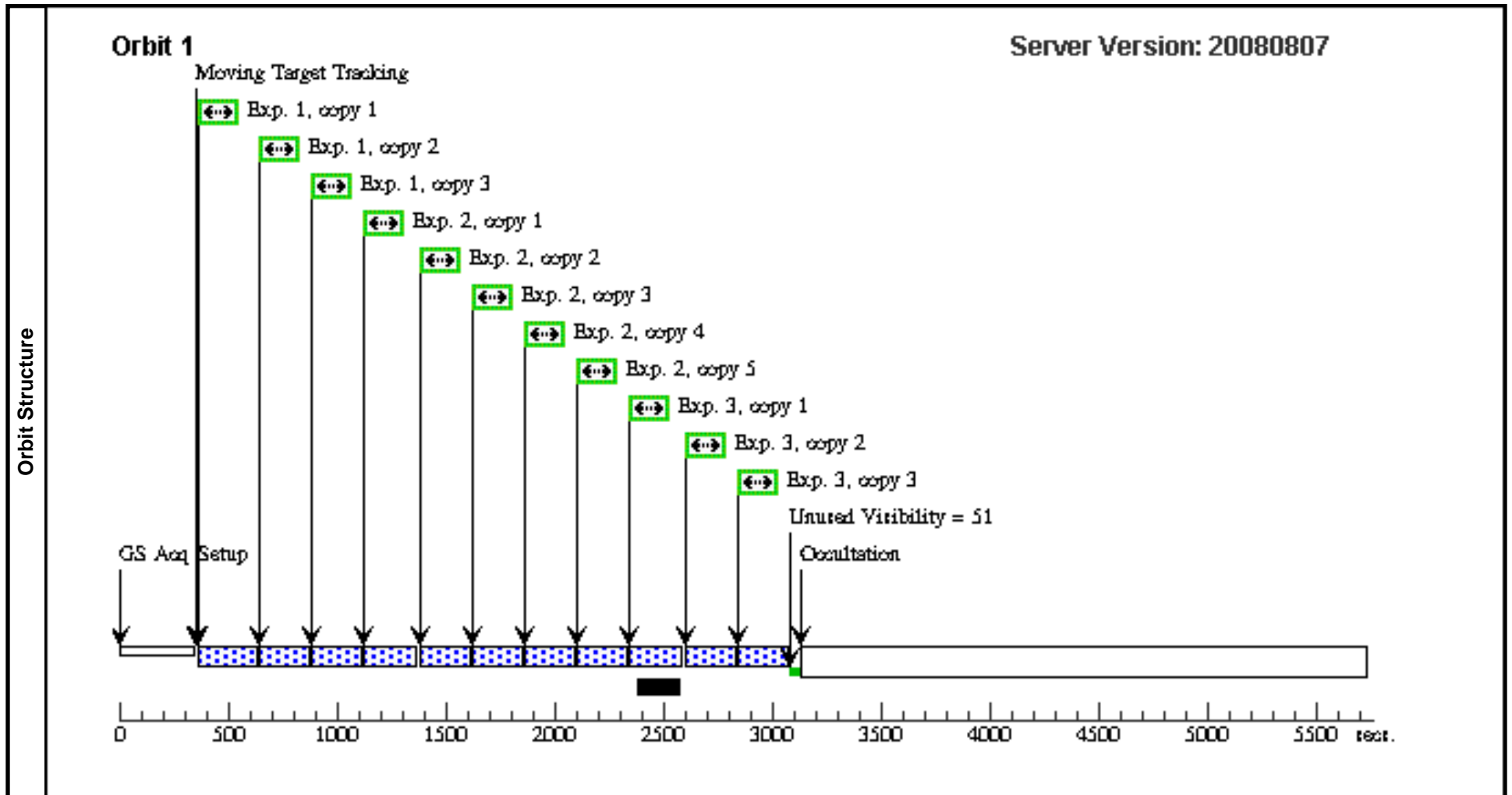
Proposal 11970 - Visit 05 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

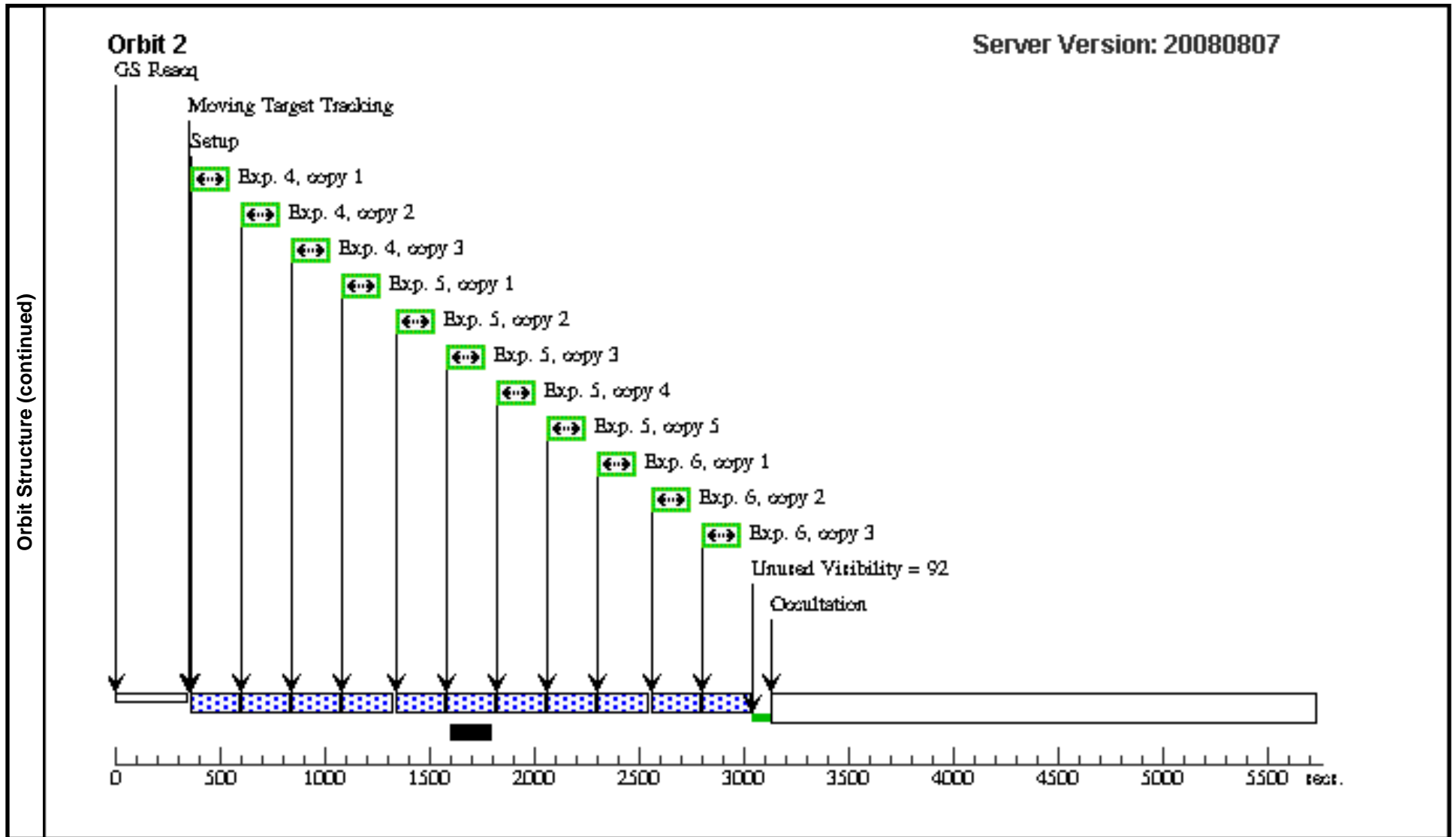
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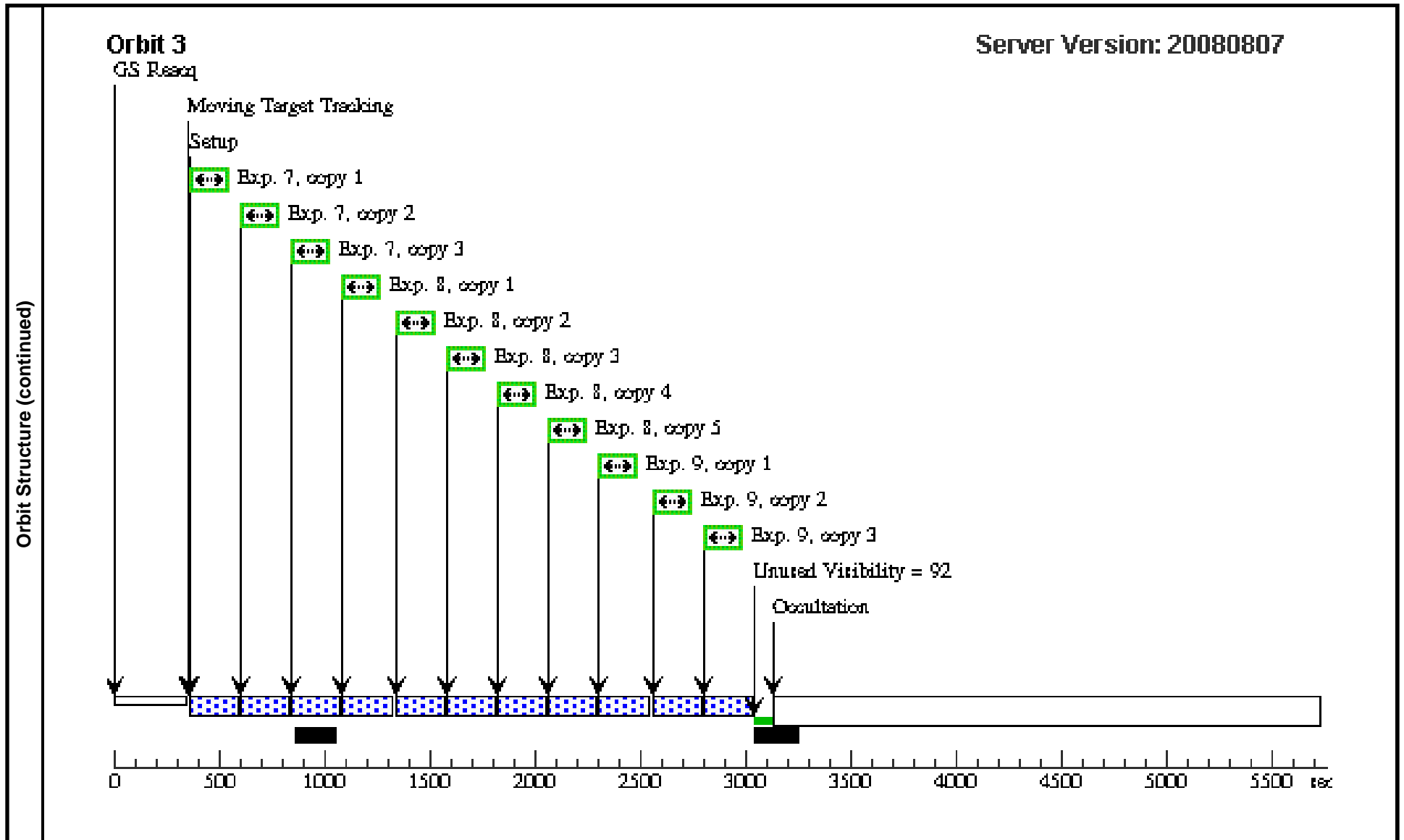
Visit	<b>Proposal 11970, Visit 05, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: BETWEEN 08-FEB-2009:13:00:00 AND 08-FEB-2009:18:24:00 Comments: Titan in transit of Saturn disc on 8 Feb 2009. Track on Titan, not Saturn.									
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center		
	(2)	TITAN-TRANSIT	STD=SATURN	STD=TITAN				EARTH		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F125LP		GS ACQ SCENARI O BASE1T3		200 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	2		(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 5 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)]	[1]
	3		(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	4		(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[2]
	5		(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 5 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)]	[2]

Proposal 11970 - Visit 05 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	6	(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F125LP					200 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[2]
	7	(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F125LP					200 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[3]
	8	(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F115LP					200 Secs X 5 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)]	[3]
	9	(2) TITAN-TRANSIT	ACS/SBC, ACCUM, SBC-FIX	F125LP					200 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[3]







Proposal 11970 - Visit 06 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

Tue Jan 13 02:23:18 GMT 2009

Visit	<b>Proposal 11970, Visit 06, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: BETWEEN 08-FEB-2009:22:00:00 AND 13-FEB-2009:00:00:00 <i>Comments: Titan away from Saturn post-transit.</i>									
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center		
	(3)	TITAN-POST-INF-CONJ	STD=SATURN	STD=TITAN				EARTH		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP					200 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[1]
	2	(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP					200 Secs X 7 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[1]
	3	(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP					200 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[1]
	4	(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP					200 Secs X 2 [==>(Copy 1)] [==>(Copy 2)]	[2]

Proposal 11970 - Visit 06 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
5		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 7	[2]
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	
								[==>(Copy 5)]	
								[==>(Copy 6)]	
[==>(Copy 7)]									
6		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[2]
								[==>(Copy 1)]	
7		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[3]
								[==>(Copy 1)]	
8		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 7	[3]
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	
								[==>(Copy 5)]	
								[==>(Copy 6)]	
[==>(Copy 7)]									
9		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[3]
								[==>(Copy 1)]	
10		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2	[4]
								[==>(Copy 1)]	
11		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 7	[4]
								[==>(Copy 1)]	
								[==>(Copy 2)]	
								[==>(Copy 3)]	
								[==>(Copy 4)]	
								[==>(Copy 5)]	
								[==>(Copy 6)]	
[==>(Copy 7)]									

Exposures (continued)

Proposal 11970 - Visit 06 - HST Observations of Titan's Escaping Atmosphere in Transit and in Emission

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit		
<b>Exposures (continued)</b>	12		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F125LP				200 Secs X 2			
									[==>(Copy 1)]	[4]		
									[==>(Copy 2)]			
		13		(3) TITAN-POST-IN F-CONJ	ACS/SBC, ACCUM, SBC-FIX	F115LP				200 Secs X 11		
										[==>(Copy 1)]	[5]	
										[==>(Copy 2)]		
										[==>(Copy 3)]		
										[==>(Copy 4)]		
										[==>(Copy 5)]		
										[==>(Copy 6)]		
										[==>(Copy 7)]		
									[==>(Copy 8)]			
									[==>(Copy 9)]			
									[==>(Copy 10)]			
									[==>(Copy 11)]			

