



# 12514 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Cycle: 19, Proposal Category: GO

(Availability Mode: SUPPORTED)

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Dr. Karl Stapelfeldt (PI)</b>	<b>NASA Goddard Space Flight Center</b>	<b>karl.r.stapelfeldt@nasa.gov</b>
Dr. Gaspard Duchene (CoI)	University of California - Berkeley	gduchene@berkeley.edu
Dr. Caer-Eve McCabe (CoI)	Eureka Scientific Inc.	caereve@gmail.com
Mr. John Krist (CoI)	Jet Propulsion Laboratory	john.e.krist@jpl.nasa.gov
Dr. Francois Menard (CoI) (ESA Member)	Universite de Grenoble I	francois.menard@obs.ujf-grenoble.fr
Dr. Deborah Padgett (CoI)	NASA Goddard Space Flight Center	dlp@ipac.caltech.edu
Dr. Marshall Perrin (CoI)	Space Telescope Science Institute	mperrin@stsci.edu

## 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) SSTC2DJ032857.0+311622	ACS/WFC	1	28-Sep-2011 21:07:24.0	yes
02	(2) SSTC2DJ032924.1+311957	ACS/WFC	1	28-Sep-2011 21:07:28.0	yes
03	(3) SSTC2DJ033027.1+302829	ACS/WFC	1	28-Sep-2011 21:07:30.0	yes
04	(4) SSTC2DJ033038.2+303211	ACS/WFC	1	28-Sep-2011 21:07:33.0	yes
05	(5) SSTTAUJ041941.4+271607	ACS/WFC	1	28-Sep-2011 21:07:36.0	yes
06	(6) SSTTAUJ042021.4+281349	ACS/WFC	1	28-Sep-2011 21:07:38.0	yes
07	(7) SSTTAUJ042215.6+265706	ACS/WFC	1	28-Sep-2011 21:07:41.0	yes

Proposal 12514 (STScI Edit Number: 5, Created: Wednesday, September 28, 2011 8:08:27 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>
08	(8) SSTTAUJ042307.7+280557	ACS/WFC	1	28-Sep-2011 21:07:43.0	yes
09	(9) SSTGBSJ043004.3+352223	ACS/WFC	1	28-Sep-2011 21:07:46.0	yes
10	(10) SSTGBSJ043032.4+353613	ACS/WFC	1	28-Sep-2011 21:07:49.0	yes
11	(11) SSTTAUJ043314.3+261423	ACS/WFC	1	28-Sep-2011 21:07:51.0	yes
12	(12) SSTTAUJ043905.2+233745	ACS/WFC	1	28-Sep-2011 21:07:54.0	yes
13	(13) SSTGBSJ110422.7-771808	ACS/WFC	1	28-Sep-2011 21:07:56.0	yes
14	(14) SSTGBSJ110824.1-774407	ACS/WFC	1	28-Sep-2011 21:07:59.0	yes
15	(15) SSTGBSJ110926.1-763333	ACS/WFC	1	28-Sep-2011 21:08:01.0	yes
16	(16) SSTGBSJ111110.7-764157	ACS/WFC	1	28-Sep-2011 21:08:03.0	yes
17	(17) WISEJ111602.8-762452	ACS/WFC	1	28-Sep-2011 21:08:06.0	yes
18	(18) SSTC2DJ160851.4-390530	ACS/WFC	1	28-Sep-2011 21:08:08.0	yes
19	(19) SSTC2DJ163131.2-242627	ACS/WFC	1	28-Sep-2011 21:08:11.0	yes
20	(20) SSTC2DJ163136.8-240419	ACS/WFC	1	28-Sep-2011 21:08:13.0	yes
21	(21) SSTGBSJ191043.4-365909	ACS/WFC	1	28-Sep-2011 21:08:16.0	yes
54	(4) SSTC2DJ033038.2+303211	ACS/WFC	1	28-Sep-2011 21:08:18.0	yes
55	(5) SSTTAUJ041941.4+271607	ACS/WFC	1	28-Sep-2011 21:08:21.0	yes
57	(7) SSTTAUJ042215.6+265706	ACS/WFC	1	28-Sep-2011 21:08:23.0	yes

24 Total Orbits Used

### ABSTRACT

Edge-on, optically thick circumstellar disks have been imaged at subarcsecond resolution around about a dozen nearby young stellar objects (YSOs). In these systems the central star is occulted from direct view, bright star image artifacts are absent, and the disk reflected light is clearly seen. Comparison of HST edge-on disk images with scattered light models has allowed key structural parameters such as the disk outer radius, vertical scale height, radial flaring profile, total mass, and dust grain properties to be determined. Edge-on disks have been systematically undercounted to date: although 15% of young stars should statistically be occulted by their disk, the observed frequency is < 2%. The Spitzer Space Telescope has provided the first good measurements of the spectral energy distributions for the currently known edge-on disks, finding a characteristic double-peak

morphology and showing the sources to be strongly underluminous at wavelengths  $< 3$  microns. Using these as templates, we have identified 70 new edge-on disk candidates among more than 2000 YSOs cataloged in Spitzer legacy surveys of nearby molecular clouds. Twenty-one of these sources are high-confidence identifications with spectroscopic confirmation as YSOs and are optically visible. We propose an R and I band imaging survey of this sample to reveal their disk and jet structures. Image modeling will reveal the full diversity of disk vertical structures that trace the settling of dust grains to the disk midplane - the key first step on the road to planet formation. This program will more than double the number of edge-on disk sources with high-fidelity images suitable for scattered light modeling.

### **OBSERVING DESCRIPTION**

The observations will be made using the ACS/WFC, as it provides better red sensitivity than WFC3/UVIS. I band (F814W) is relatively free of emission lines from Herbig-Haro jets and thus serves as our primary bandpass for imaging scattered light structures. Since some of our sources are likely to possess HH jets, all the targets will also be imaged on ACS/WFC in the F606W (broad V) filter that captures the H $\alpha$ , [S~II], and [O~I] emission lines. In the sources lacking jets, the F606W filter will provide a measurement of dust lane chromaticity that is diagnostic of the grain size. All of our targets are visible in optical DSS images. As all our targets are red, we baseline a CR-SPLIT 1300 second exposure in F606W and a CR-SPLIT 800 second exposure in F814W. Exposure times have been adjusted slightly from these values to fill the target visibility windows that are available with 50% schedulability. Two targets (SSTGBS110926.1-763333 and SSTC2D163136.8-240419) are sufficiently red that we forego the F606W images and spend the full orbit imaging in F814W. One object (SSTGBSJ191043.4-365909) is in a binary system with a bright primary star; in this case, we have reduced the long integrations somewhat to make room for short (unsaturated) images of the primary in both filters. There will be a single one-orbit visit for each target. We choose not to dither the CR-SPLIT images, as this would produce slight blurring of the resulting mosaics and hamper our ability to resolve the disk scale heights. Hot pixels will be removed by a local median in our data analysis.

Our targets are widely distributed around the sky in the star-forming regions of Perseus (RA= 3h), Taurus-Auriga (4h), Chamaeleon (11h), Lupus (15h), Ophiuchus (16h), and Corona Australis (17h). The target declinations range from -77 to +35. Our sample is thus "snapshot-like" and should be easy to schedule. ORIENTS and POS TARGS have been specified for 8 of the visits, in order to place adjacent outflow features on the ACS field of view and to keep diffraction spikes from bright stars off the science targets.

### **REAL TIME JUSTIFICATION**

N/A

**CALIBRATION JUSTIFICATION**

N/A

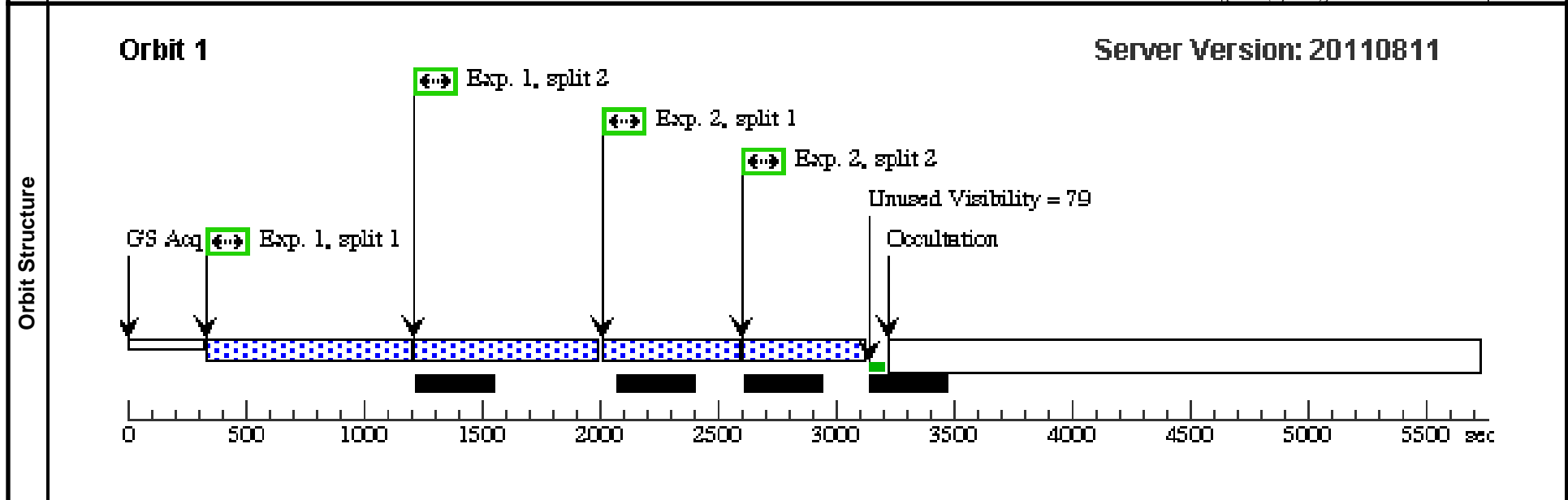
Proposal 12514 - Visit 01 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:28 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 01, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%; ORIENT 50.0D TO 73.0 D				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	SSTC2DJ032857.0+311622	RA: 03 28 57.0000 (52.2375000d) Dec: +31 16 22.00 (31.27278d) Equinox: J2000		V=19 R= 18.2	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) SSTC2DJ032857.0+311622	ACS/WFC, ACCUM, WFC2	F606W	CR-SPLIT=2	POS TARG 54.2531 18143295204,18.881 89617028865; GS ACQ SCENARI O BASE1B3		1320 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	2		(1) SSTC2DJ032857.0+311622	ACS/WFC, ACCUM, WFC2	F814W	CR-SPLIT=2	SAME POS AS 1		800 Secs [==>(Split 1)] [==>(Split 2)]	[1]



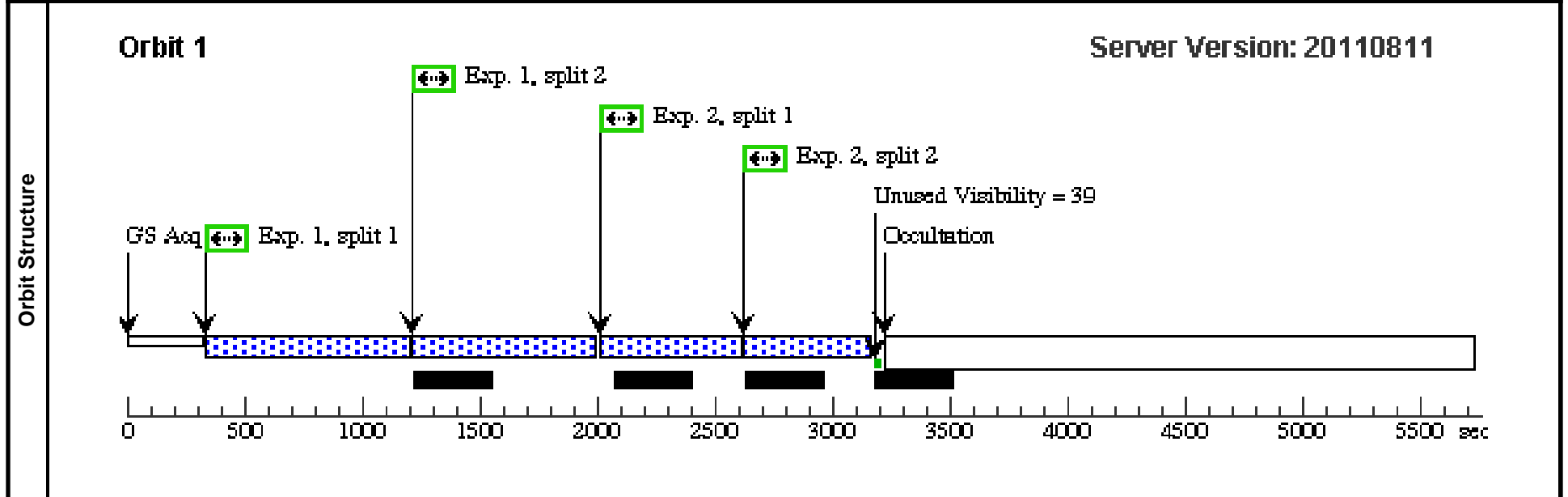
Proposal 12514 - Visit 02 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:29 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 02, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	SSTC2DJ032924.1+311957	RA: 03 29 24.1000 (52.3504167d) Dec: +31 19 57.00 (31.33250d) Equinox: J2000		V=19 J= 15.5	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) SSTC2DJ032924.1+311957	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2			1320 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(2) SSTC2DJ032924.1+311957	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		840 Secs [=>(Split 1)] [=>(Split 2)]	[1]



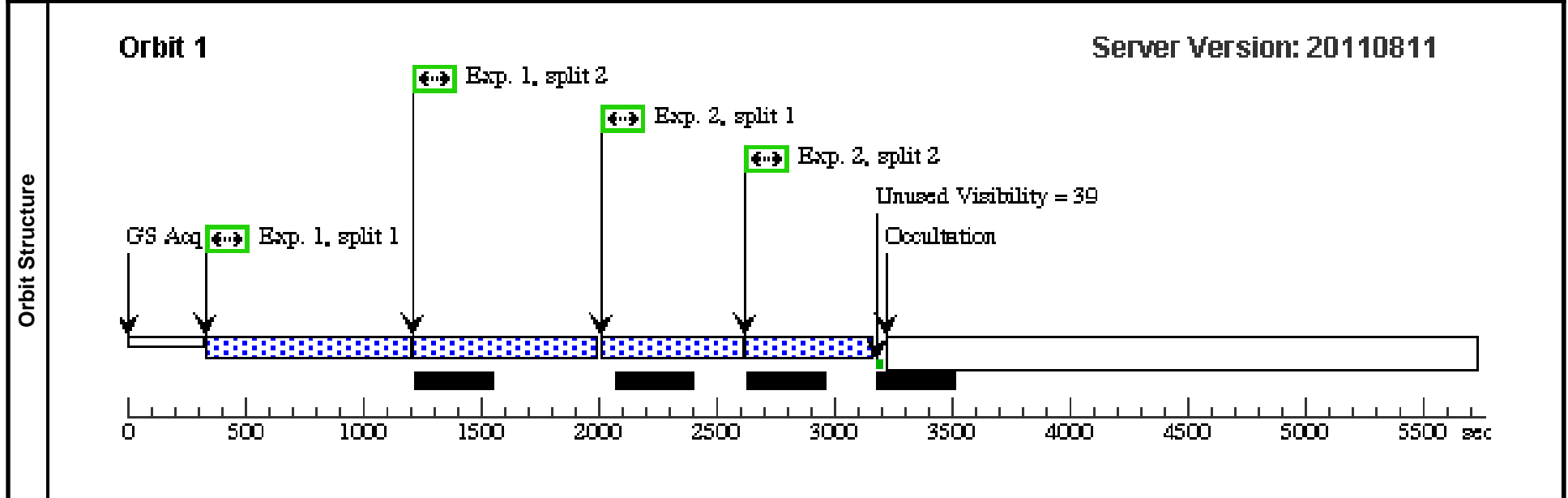
Proposal 12514 - Visit 03 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:29 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 03, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	SSTC2DJ033027.1+302829	RA: 03 30 27.1000 (52.6129167d) Dec: +30 28 29.00 (30.47472d) Equinox: J2000		V=19 J= 15	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) SSTC2DJ033027.1+302829	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2			1320 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(3) SSTC2DJ033027.1+302829	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		840 Secs [=>(Split 1)] [=>(Split 2)]	[1]



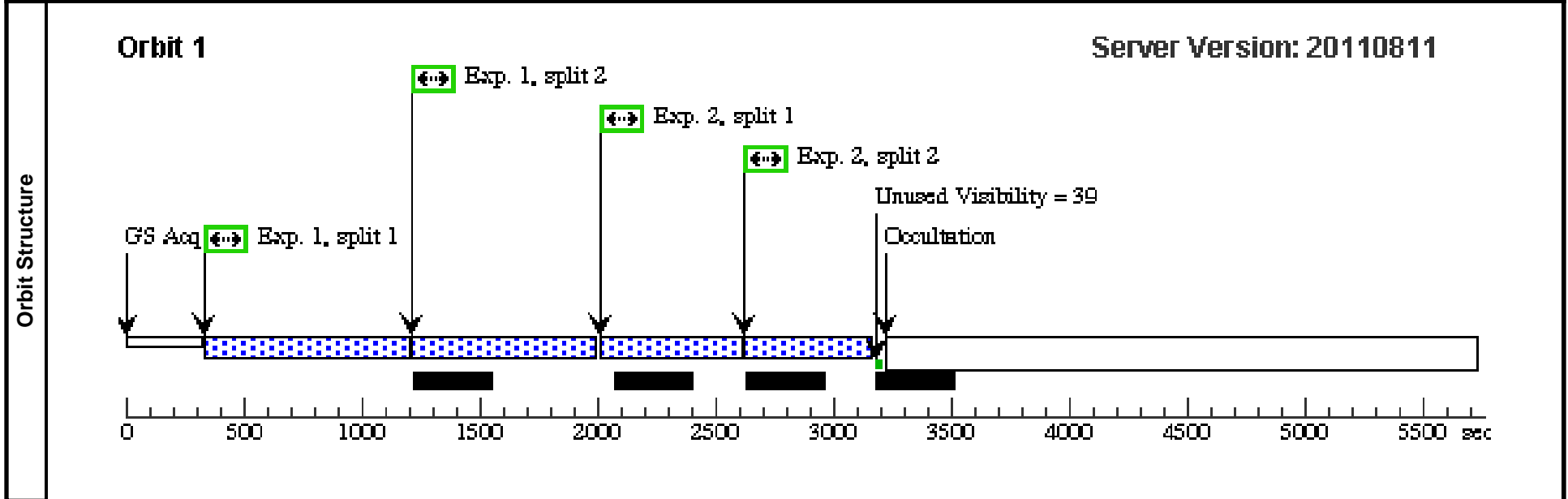
Proposal 12514 - Visit 04 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:30 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 04, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%; ORIENT 230D TO 260 D				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	SSTC2DJ033038.2+303211	RA: 03 30 38.2000 (52.6591667d) Dec: +30 32 11.80 (30.53661d) Equinox: J2000		V=20 R= 19.1	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) SSTC2DJ033038.2+303211	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2	POS TARG -3.0197 550094281334,-18.2 96417254261243; GS ACQ SCENARI O BASE1B3		1320 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	2		(4) SSTC2DJ033038.2+303211	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		840 Secs [==>(Split 1)] [==>(Split 2)]	[1]



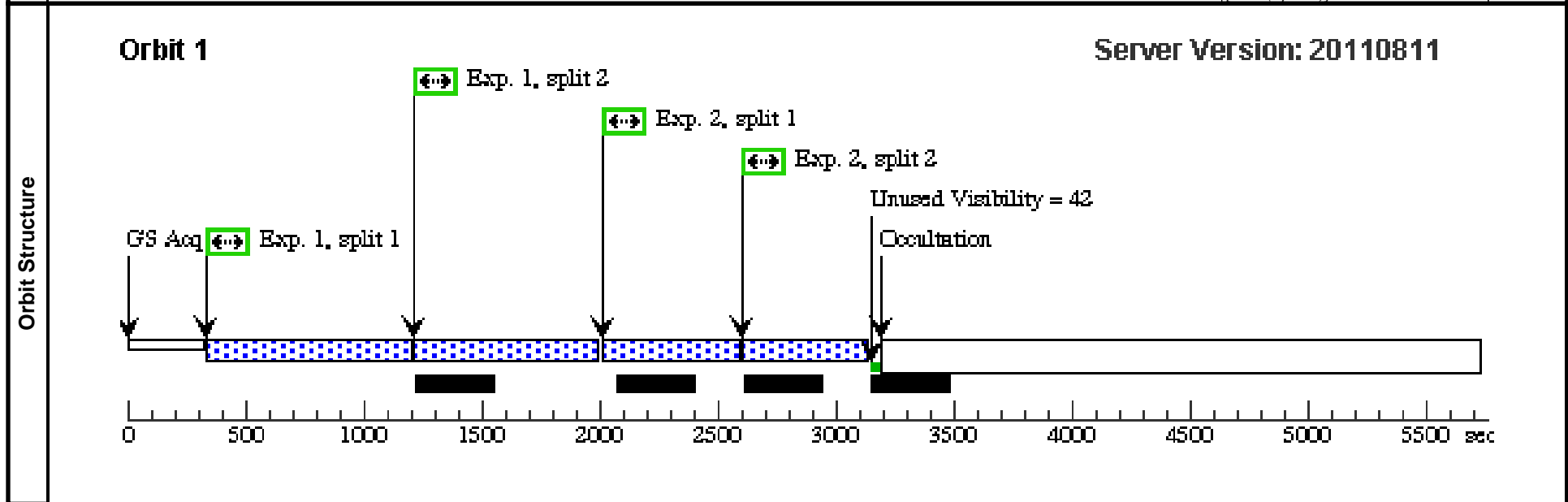
Proposal 12514 - Visit 05 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:31 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 05, scheduled				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%; ORIENT 225D TO 260 D				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	SSTTAUJ041941.4+271607	RA: 04 19 41.4000 (64.9225000d) Dec: +27 16 7.00 (27.26861d) Equinox: J2000		V=19 J= 14.7	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) SSTTAUJ041941.4+271607	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2	POS TARG 41.3371 3914013029,25.2479 750252636; GS ACQ SCENARI O BASE1B3		1320 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	2		(5) SSTTAUJ041941.4+271607	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		810 Secs [==>(Split 1)] [==>(Split 2)]	[1]



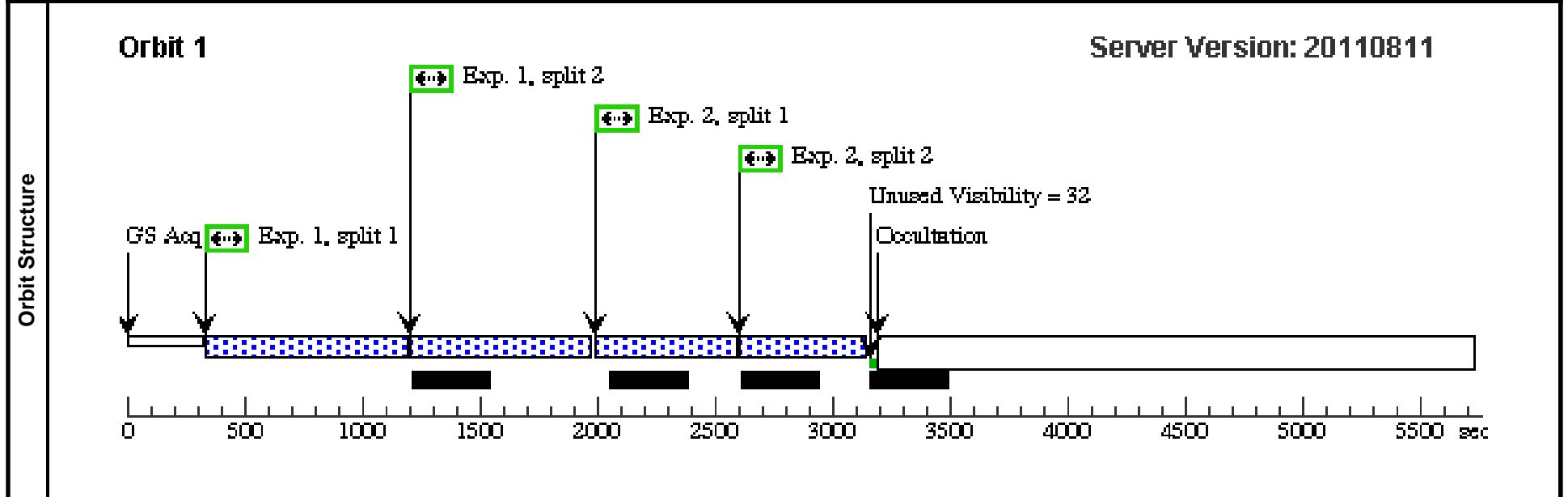
Proposal 12514 - Visit 06 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:31 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 06, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	SSTTAUJ042021.4+281349	RA: 04 20 21.4000 (65.0891667d) Dec: +28 13 49.00 (28.23028d) Equinox: J2000		V=17.2 J= 15.8	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) SSTTAUJ042021.4+281349	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2			1300 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(6) SSTTAUJ042021.4+281349	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		840 Secs [=>(Split 1)] [=>(Split 2)]	[1]



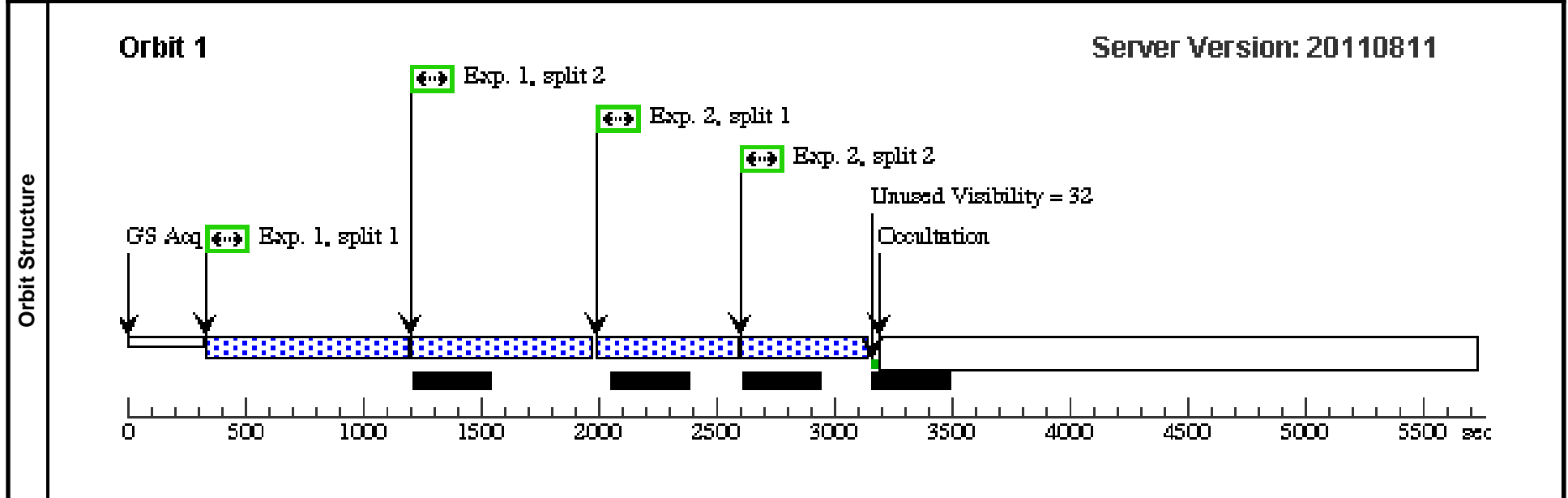
Proposal 12514 - Visit 07 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:31 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 07, scheduled				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%; ORIENT 226D TO 241.0 D				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	SSTTAUJ042215.6+265706	RA: 04 22 15.6000 (65.5650000d) Dec: +26 57 6.00 (26.95167d) Equinox: J2000		V=18 R= 17.1	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) SSTTAUJ042215.6+265706	ACS/WFC, ACCUM, WFC2	F606W	CR-SPLIT=2	POS TARG 74.9343 905271763,-23.8343 1541770812		1300 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(7) SSTTAUJ042215.6+265706	ACS/WFC, ACCUM, WFC2	F814W	CR-SPLIT=2	SAME POS AS 1		840 Secs [=>(Split 1)] [=>(Split 2)]	[1]



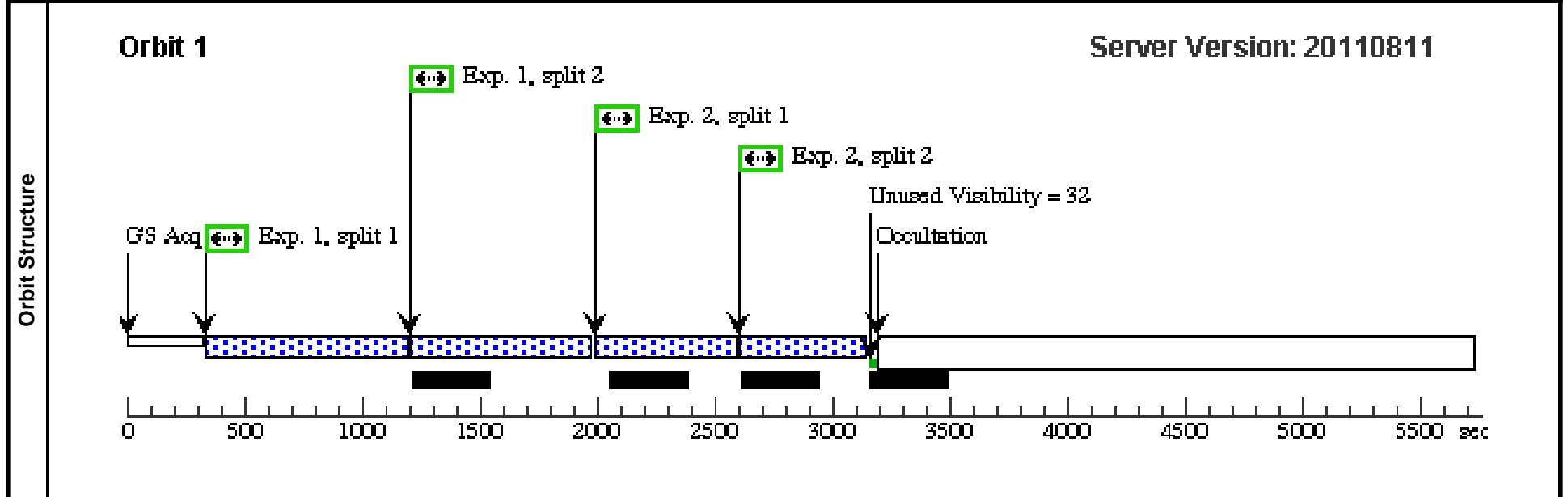
Proposal 12514 - Visit 08 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:32 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 08, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	SSTTAUJ042307.7+280557	RA: 04 23 7.7000 (65.7820833d) Dec: +28 05 57.00 (28.09917d) Equinox: J2000		V=17.5 R= 16.2	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) SSTTAUJ042307.7+280557	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2			1300 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(8) SSTTAUJ042307.7+280557	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		840 Secs [=>(Split 1)] [=>(Split 2)]	[1]



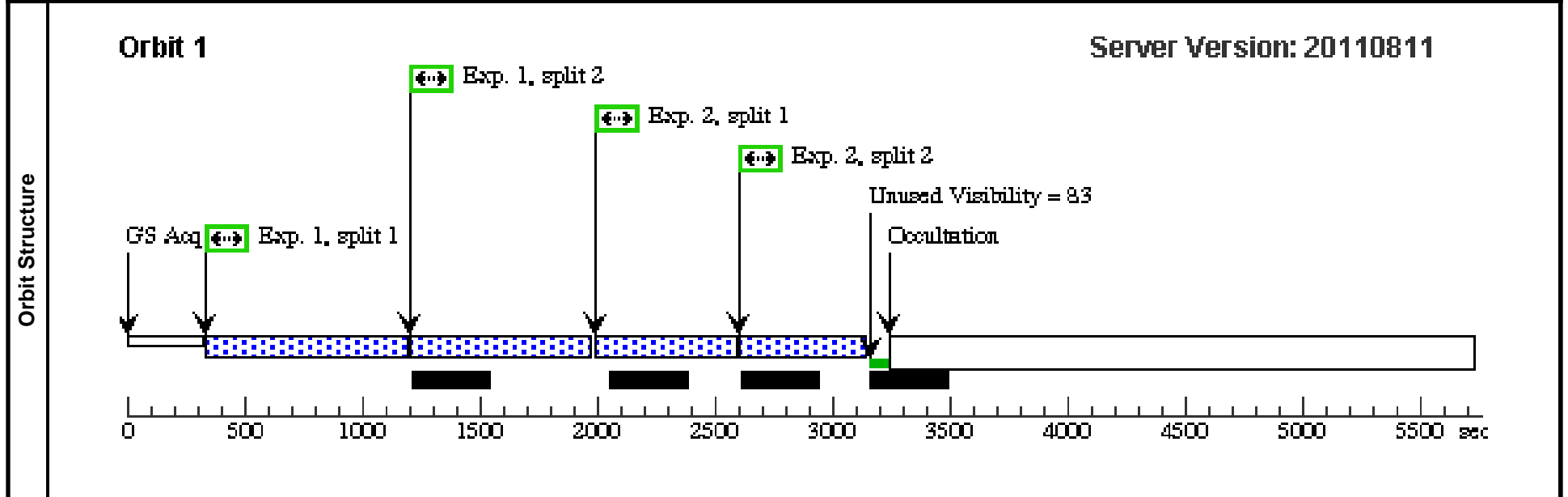
Proposal 12514 - Visit 09 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:32 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 09, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	SSTGBSJ043004.3+352223	RA: 04 30 4.3000 (67.5179167d) Dec: +35 22 23.00 (35.37306d) Equinox: J2000		V=15	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) SSTGBSJ043004.3+352223	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2			1300 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(9) SSTGBSJ043004.3+352223	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		840 Secs [=>(Split 1)] [=>(Split 2)]	[1]



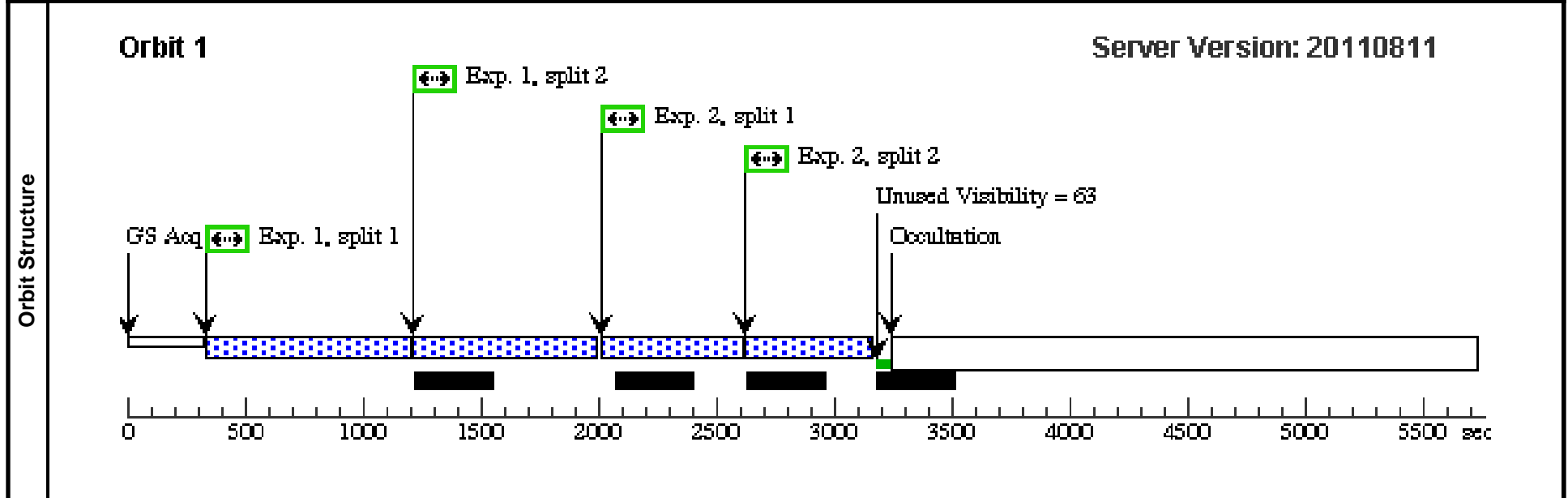
Proposal 12514 - Visit 10 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:32 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 10, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	SSTGBSJ043032.4+353613	RA: 04 30 32.4000 (67.6350000d) Dec: +35 36 13.00 (35.60361d) Equinox: J2000		V=18	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(10) SSTGBSJ043032.4+353613	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2			1320 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(10) SSTGBSJ043032.4+353613	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		840 Secs [=>(Split 1)] [=>(Split 2)]	[1]



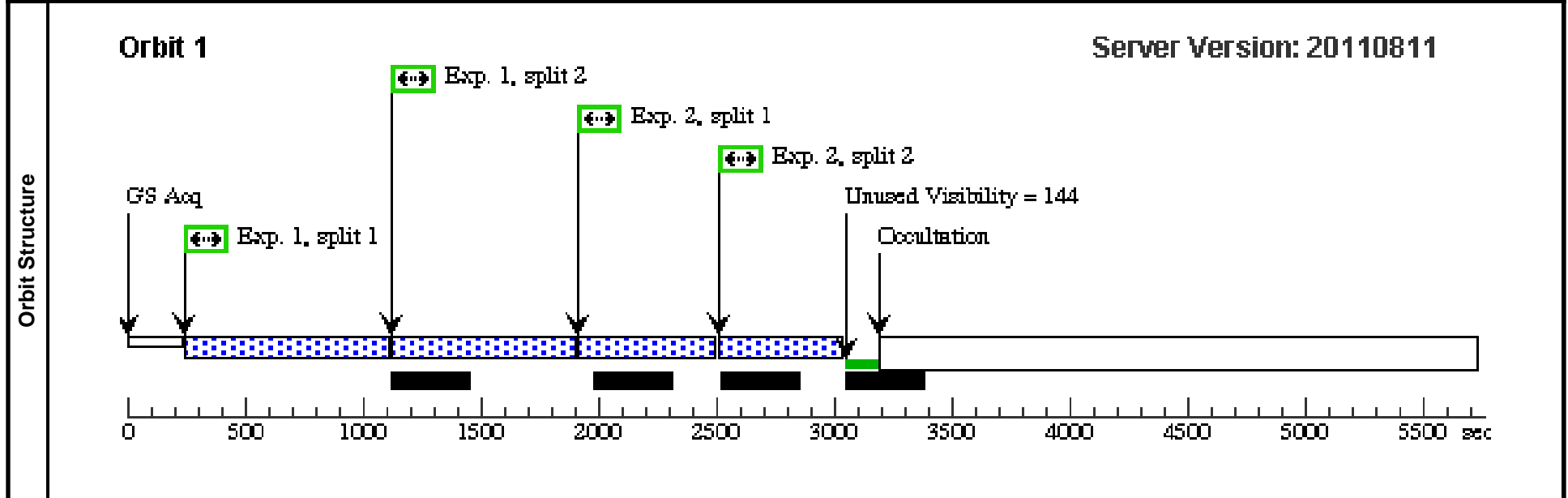
Proposal 12514 - Visit 11 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:32 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 11, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	SSTTAUJ043314.3+261423	RA: 04 33 14.3000 (68.3095833d) Dec: +26 14 23.00 (26.23972d) Equinox: J2000		V=18 J= 14.6	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(11) SSTTAUJ043314.3+261423	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2	GS ACQ SCENARI O SINGLE		1320 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(11) SSTTAUJ043314.3+261423	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		800 Secs [=>(Split 1)] [=>(Split 2)]	[1]



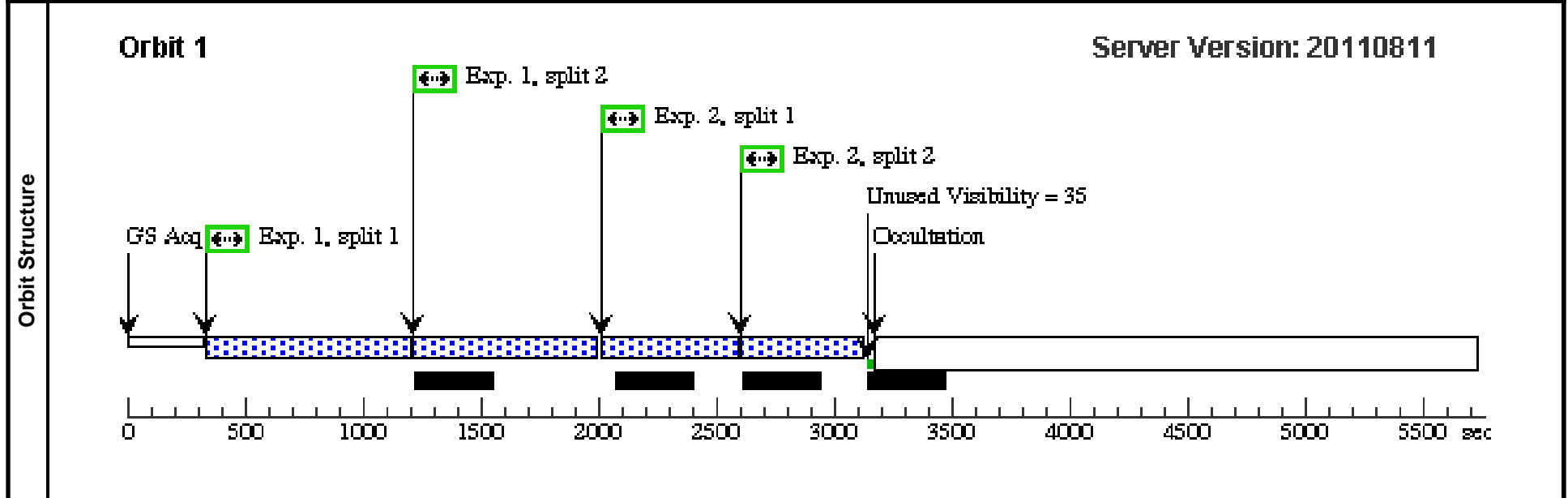
Proposal 12514 - Visit 12 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:33 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 12, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	SSTTAUJ043905.2+233745	RA: 04 39 5.2000 (69.7716667d) Dec: +23 37 45.00 (23.62917d) Equinox: J2000		V=17 J= 13.4	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(12) SSTTAUJ043905.2+233745	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2			1320 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(12) SSTTAUJ043905.2+233745	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		800 Secs [=>(Split 1)] [=>(Split 2)]	[1]



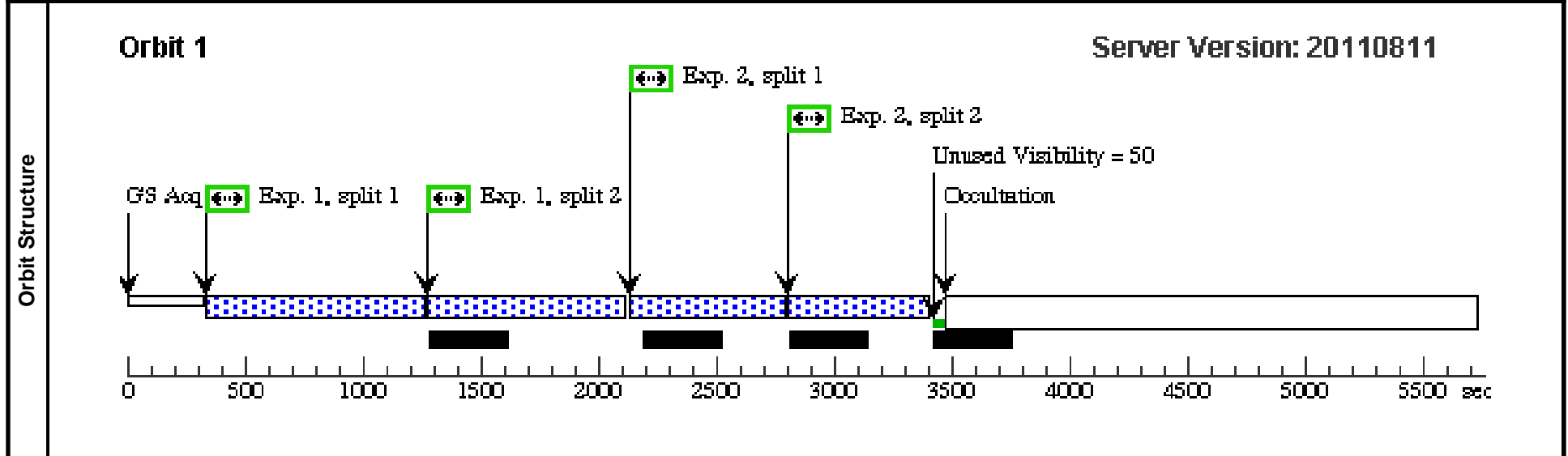
Proposal 12514 - Visit 13 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:33 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 13, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(13)	SSTGBSJ110422.7-771808 Alt Name1: HH48	RA: 11 04 22.7000 (166.0945833d) Dec: -77 18 8.00 (-77.30222d) Equinox: J2000		V=18 R= 16	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(13) SSTGBSJ110422.7-771808	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2			1440 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(13) SSTGBSJ110422.7-771808	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		960 Secs [=>(Split 1)] [=>(Split 2)]	[1]



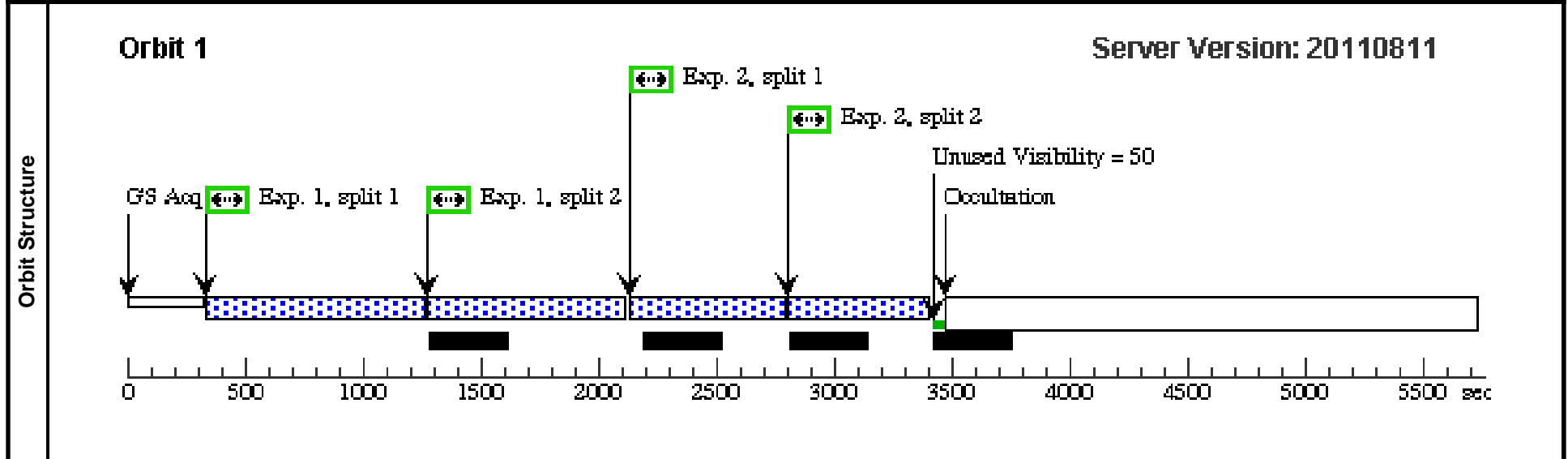
Proposal 12514 - Visit 14 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:34 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 14, scheduling			
	Diagnostic Status: No Diagnostics			
	Scientific Instruments: ACS/WFC			
	Special Requirements: SCHED 50%; ORIENT 330D TO 8.0 D			

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(14)	SSTGBSJ110824.1-774407	RA: 11 08 24.1000 (167.1004167d) Dec: -77 44 7.00 (-77.73528d) Equinox: J2000		V=20	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(14) SSTGBSJ110824.1-774407	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2	POS TARG 53.5015 9198160122,-3.4080 931805505132; GS ACQ SCENARI O BASE1B3		1440 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	2		(14) SSTGBSJ110824.1-774407	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		960 Secs [==>(Split 1)] [==>(Split 2)]	[1]



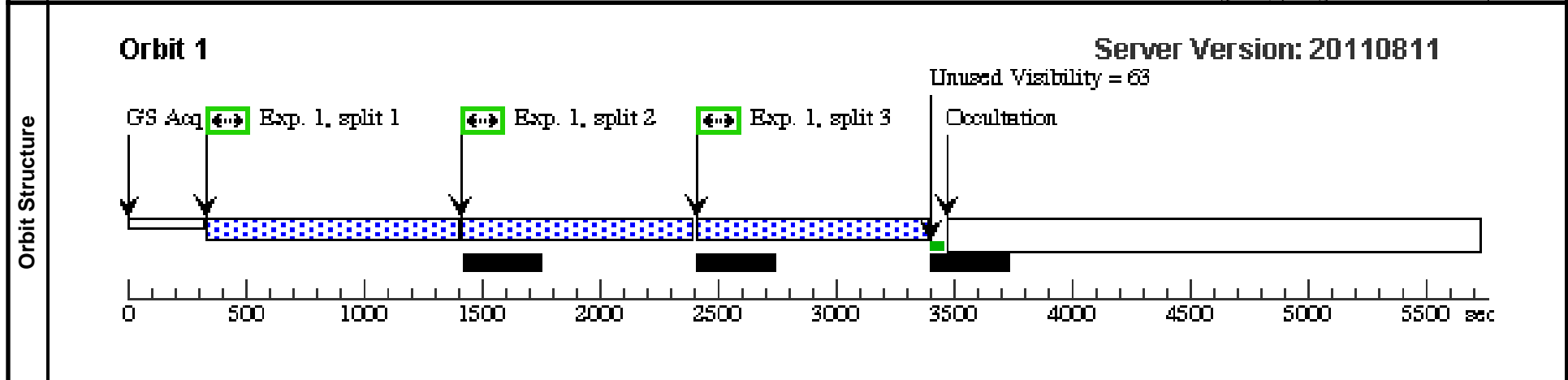
Proposal 12514 - Visit 15 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:34 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 15, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%; ORIENT 341D TO 359.0 D				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(15)	SSTGBSJ110926.1-763333	RA: 11 09 26.1000 (167.3587500d) Dec: -76 33 33.00 (-76.55917d) Equinox: J2000		V=20	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(15) SSTGBSJ110926.1-763333	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=3	POS TARG 56.6682 2760911351,24.1473 63702707693		2580 Secs [=>(Split 1)] [=>(Split 2)] [=>(Split 3)]	[1]



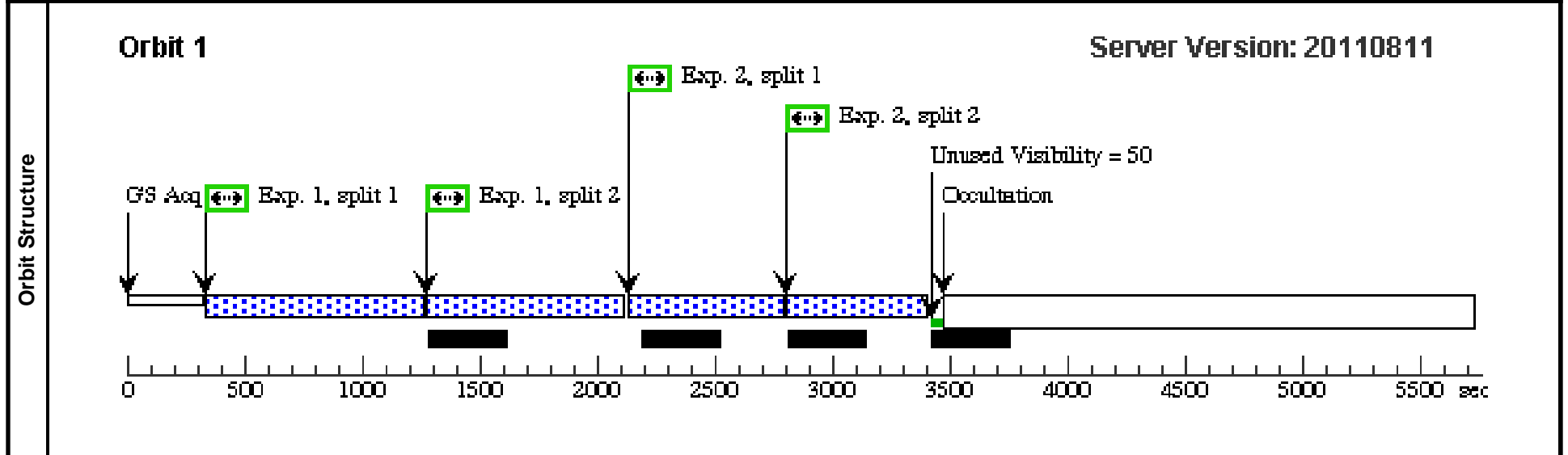
Proposal 12514 - Visit 16 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:34 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 16, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	SSTGBSJ111110.7-764157	RA: 11 11 10.7000 (167.7945833d) Dec: -76 41 57.00 (-76.69917d) Equinox: J2000		V=19.1	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(16) SSTGBSJ11111 0.7-764157	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2			1440 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(16) SSTGBSJ11111 0.7-764157	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		960 Secs [=>(Split 1)] [=>(Split 2)]	[1]



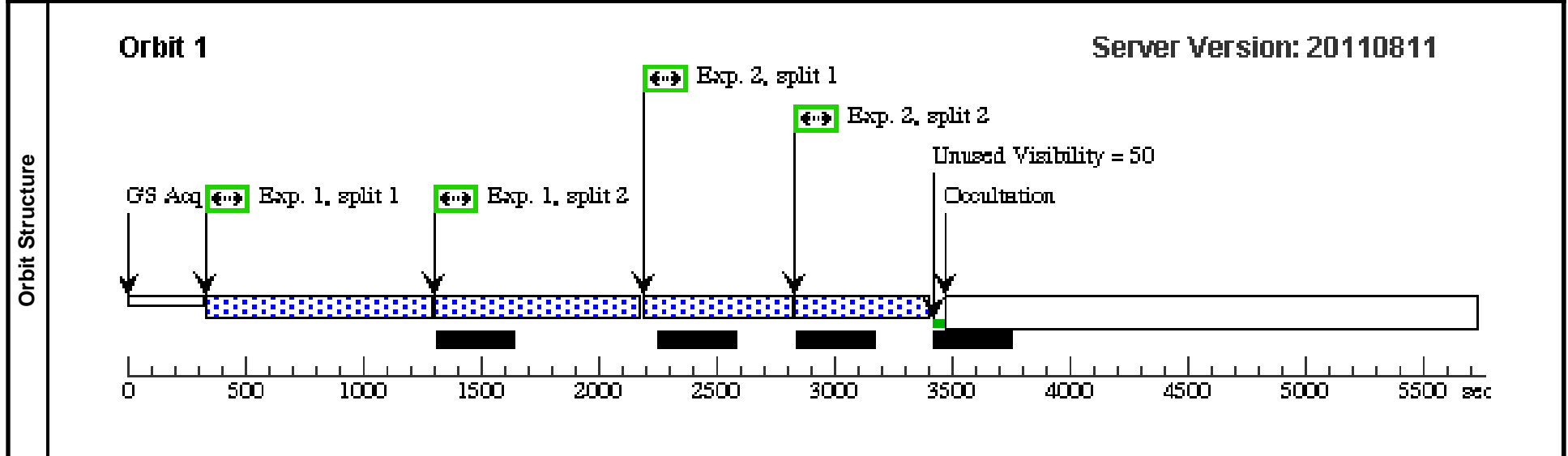
Proposal 12514 - Visit 17 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:34 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 17, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(17)	WISEJ111602.8-762452	RA: 11 16 2.8000 (169.0116667d)		V=19	Reference Frame: FK5
		Alt Name1: HH872	Dec: -76 24 52.00 (-76.41444d)		J= 15.6	
			Equinox: J2000			

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(17) WISEJ111602.8-762452	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2			1500 Secs	
									[==>(Split 1)]	[1]
	2		(17) WISEJ111602.8-762452	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		900 Secs	
									[==>(Split 1)]	[1]
								[==>(Split 2)]		



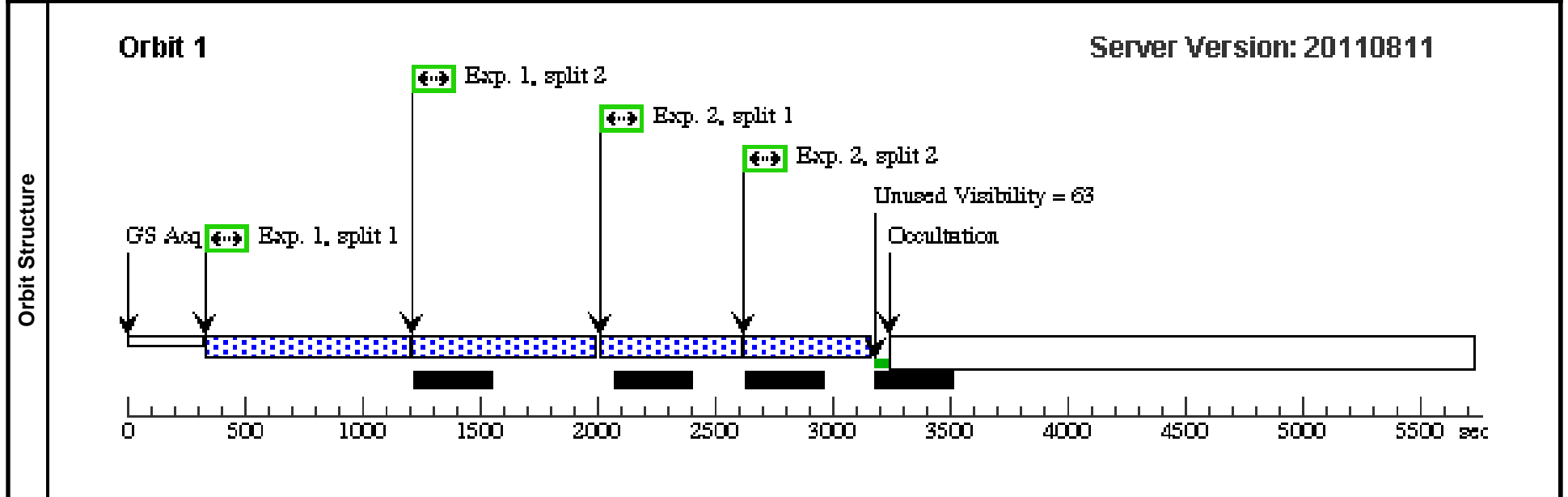
Proposal 12514 - Visit 18 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:34 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 18, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(18)	SSTC2DJ160851.4-390530	RA: 16 08 51.4000 (242.2141667d) Dec: -39 05 30.00 (-39.09167d) Equinox: J2000		V=21.9 I= 18.2	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(18) SSTC2DJ160851.4-390530	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2			1320 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(18) SSTC2DJ160851.4-390530	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		840 Secs [=>(Split 1)] [=>(Split 2)]	[1]



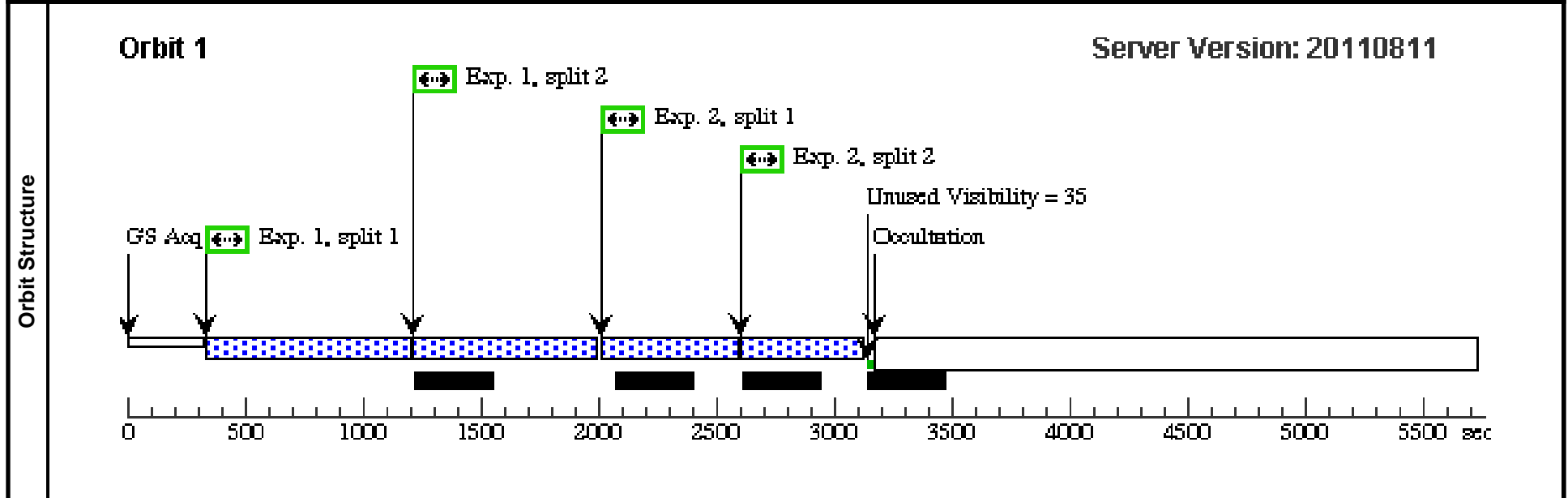
Proposal 12514 - Visit 19 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:35 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 19, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%; ORIENT 285.0D TO 315.0 D				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(19)	SSTC2DJ163131.2-242627	RA: 16 31 31.2000 (247.8800000d) Dec: -24 26 27.00 (-24.44083d) Equinox: J2000		V=22 I= 19.3	Reference Frame: Fk5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(19) SSTC2DJ163131.2-242627	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2	POS TARG 21.5,7.6 1; GS ACQ SCENARI O BASE1B3		1320 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(19) SSTC2DJ163131.2-242627	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		800 Secs [=>(Split 1)] [=>(Split 2)]	[1]



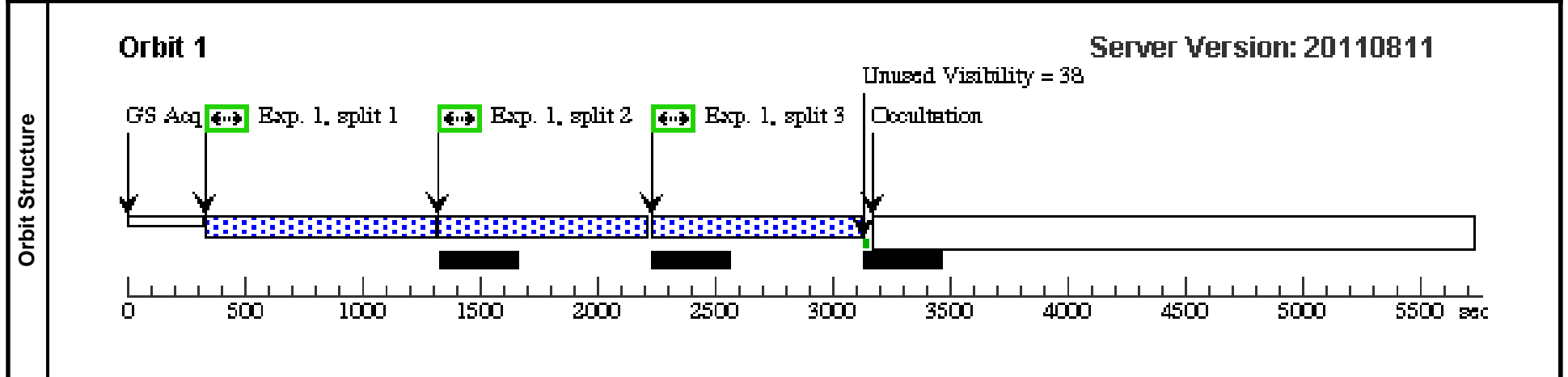
Proposal 12514 - Visit 20 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:35 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 20, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(20)	SSTC2DJ163136.8-240419	RA: 16 31 36.8000 (247.9033333d) Dec: -24 04 19.00 (-24.07194d) Equinox: J2000		V=20 J= 15.7	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(20) SSTC2DJ163136.8-240419	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=3	GS ACQ SCENARI O BASE1B3		2310 Secs [=>(Split 1)] [=>(Split 2)] [=>(Split 3)]	[1]



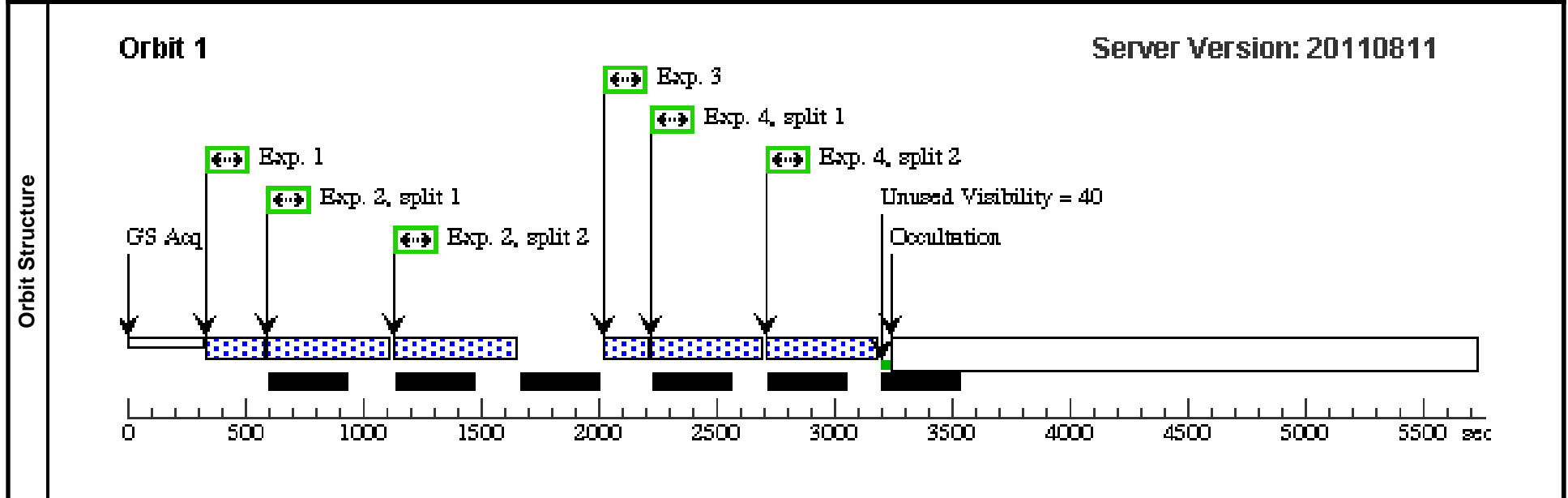
Proposal 12514 - Visit 21 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:35 GMT 2011

<b>Visit</b>	Proposal 12514, Visit 21, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%; ORIENT 80D TO 90 D				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(21)	SSTGBSJ191043.4-365909	RA: 19 10 43.4000 (287.6808333d) Dec: -36 59 9.00 (-36.98583d) Equinox: J2000		V=18 R= 16.9	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(21) SSTGBSJ19104 3.4-365909	ACS/WFC, ACCUM, WFC1	F606W				30 Secs [==>]	[1]
	2		(21) SSTGBSJ19104 3.4-365909	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2	SAME POS AS 1		800 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	3		(21) SSTGBSJ19104 3.4-365909	ACS/WFC, ACCUM, WFC1	F814W		SAME POS AS 1		8 Secs [==>]	[1]
	4		(21) SSTGBSJ19104 3.4-365909	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		700 Secs [==>(Split 1)] [==>(Split 2)]	[1]



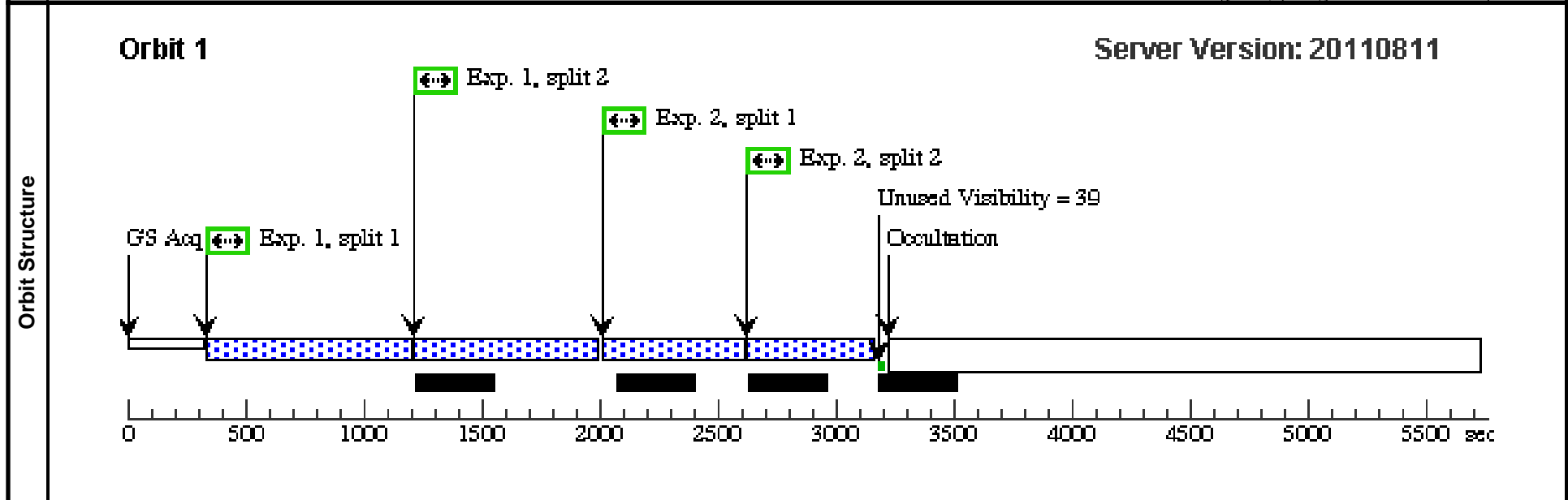
Proposal 12514 - Visit 54 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:36 GMT 2011

<b>Visit</b>	<b>Proposal 12514, Visit 54</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%; ORIENT 230D TO 260 D				
<i>Comments: This is an exact copy of visit 04 which failed.</i>					

<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(4)	SSTC2DJ033038.2+303211	RA: 03 30 38.2000 (52.6591667d) Dec: +30 32 11.80 (30.53661d) Equinox: J2000		V=20 R= 19.1	Reference Frame: FK5

<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		(4) SSTC2DJ033038.2+303211	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2	POS TARG -3.0197 550094281334,-18.2 96417254261243; GS ACQ SCENARI O BASE1B3		1320 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	2		(4) SSTC2DJ033038.2+303211	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		840 Secs [==>(Split 1)] [==>(Split 2)]	[1]



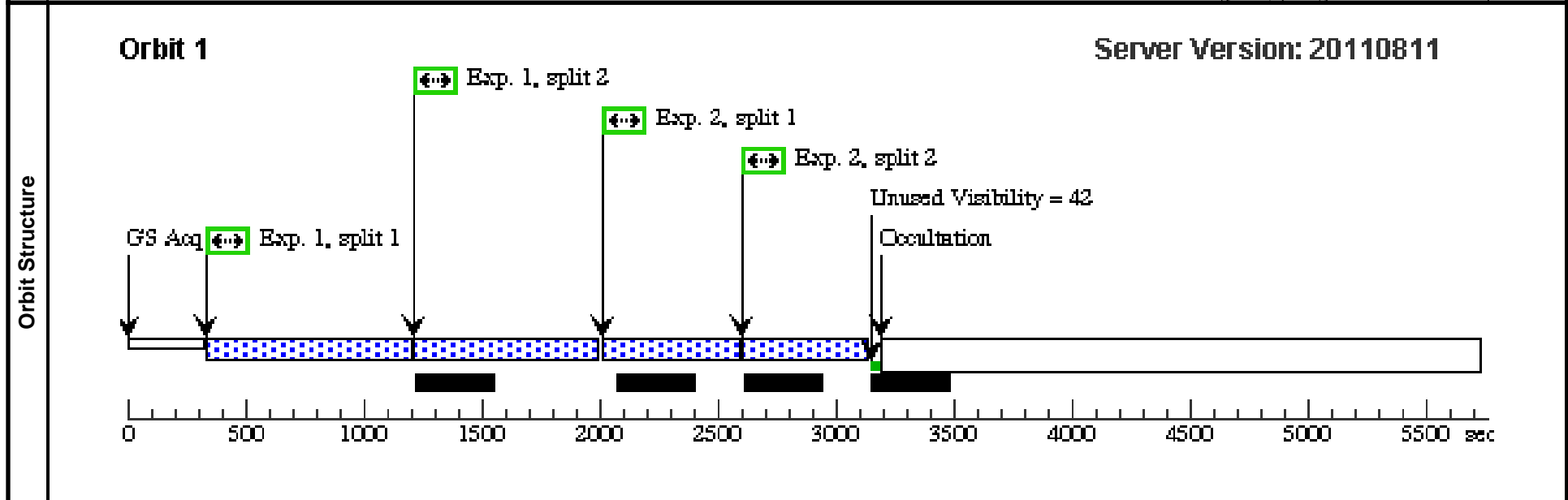
Proposal 12514 - Visit 55 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:36 GMT 2011

<b>Visit</b>	<b>Proposal 12514, Visit 55</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%; ORIENT 225D TO 260 D				
<i>Comments: This is a copy of visit 05 which failed due to a safing.</i>					

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	SSTTAUJ041941.4+271607	RA: 04 19 41.4000 (64.9225000d) Dec: +27 16 7.00 (27.26861d) Equinox: J2000		V=19 J= 14.7	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) SSTTAUJ041941.4+271607	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=2	POS TARG 41.3371 3914013029,25.2479 750252636; GS ACQ SCENARI O BASE1B3		1320 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	2		(5) SSTTAUJ041941.4+271607	ACS/WFC, ACCUM, WFC1	F814W	CR-SPLIT=2	SAME POS AS 1		810 Secs [==>(Split 1)] [==>(Split 2)]	[1]



Proposal 12514 - Visit 57 - Imaging of Newly-identified Edge-on Protoplanetary Disks in Nearby Star-Forming Regions

Thu Sep 29 01:08:36 GMT 2011

<b>Visit</b>	<b>Proposal 12514, Visit 57</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: ACS/WFC				
	Special Requirements: SCHED 50%; ORIENT 226D TO 241.0 D				
<i>Comments: This is a copy of visit 07 which failed due to a safing.</i>					

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	SSTTAUJ042215.6+265706	RA: 04 22 15.6000 (65.5650000d) Dec: +26 57 6.00 (26.95167d) Equinox: J2000		V=18 R= 17.1	Reference Frame: FK5

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) SSTTAUJ042215.6+265706	ACS/WFC, ACCUM, WFC2	F606W	CR-SPLIT=2	POS TARG 74.9343 905271763,-23.8343 1541770812		1300 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2		(7) SSTTAUJ042215.6+265706	ACS/WFC, ACCUM, WFC2	F814W	CR-SPLIT=2	SAME POS AS 1		840 Secs [=>(Split 1)] [=>(Split 2)]	[1]

