



14624 - Taming the Flame: A Near-IR imaging study of the NGC 2024 (Flame Nebula) cluster

Cycle: 24, 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) NGC-2024-T1	WFC3/IR	1	23-Jan-2018 11:01:18.0	yes
02	(2) NGC-2024-T2	WFC3/IR	1	23-Jan-2018 11:01:20.0	yes
03	(3) NGC-2024-T3	WFC3/IR	1	23-Jan-2018 11:01:22.0	yes
04	(4) NGC-2024-T4	WFC3/IR	1	23-Jan-2018 11:01:23.0	yes
05	(5) NGC-2024-T5	WFC3/IR	1	23-Jan-2018 11:01:25.0	yes
06	(6) NGC-2024-T6	WFC3/IR	1	23-Jan-2018 11:01:27.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
56	(6) NGC-2024-T6	WFC3/IR	1	23-Jan-2018 11:01:28.0	yes
07	(7) NGC-2024-T7	WFC3/IR	1	23-Jan-2018 11:01:30.0	yes
08	(8) NGC-2024-T8	WFC3/IR	1	23-Jan-2018 11:01:31.0	yes

9 Total Orbits Used

ABSTRACT

We propose to obtain HST WFC3/IR observations of the young (1 Myr) NGC 2024 (Flame Nebula) cluster in Orion. We will employ a recently developed technique --called the "drift and shift" or DASH method-- to efficiently map large regions with WFC3 in order to map a $\sim 16' \times 16'$ ($\sim 2 \times 2$ pc) area that will cover most of the cluster in only 8 orbits. The proposed observations of the Flame Nebula will provide us with WFC3/IR (F160W) images with a resolution of ~ 80 AU, which we will use to: 1) determine the fraction of multiple systems and their properties in a dense and young environment for comparison to existing HST multiplicity studies of lower density environments in the Orion clouds and the denser Orion Nebula Cluster (ONC); 2) resolve the structure of disks, infalling envelopes and outflow cavities around protostars in a young cluster, and 3) measure the proper motions of stars in the cluster core. NGC 2024 is the second largest and densest cluster in Orion after the ONC. A large number of HST programs have studied the multiple systems, disks, outflows and proper motions of stars in the older (~ 2 -3 Myr), optically visible, ONC. With the new wide-field IR imaging capabilities in HST, it is now the time to study "ONC's younger (and embedded) cousin" NGC 2024, in order to better understand how clusters (and the stars inside them) form and evolve.

OBSERVING DESCRIPTION

This program will use the new "Drift And SHift" (DASH) technique for wide-field NIR imaging, which is available for general use for the first time in this cycle (Cycle 24). With this method one can observe eight (8) adjacent "pointings" (each covering the $\sim 2' \times 2'$ field of view of the WFC3/IR camera) in a single orbit. The high mapping efficiency of the DASH technique relies on having the telescope guiding be mostly done by its three gyroscopes, with the FGS turned off for the vast majority of each orbit (i.e., only turned on for the first of eight pointings per orbit). That is, the first exposure in each orbit is guided (PCS mode = FINE) and observed the conventional way. The second and subsequent exposures are taken in gyro-only mode (PCS mode = GYRO). Turning off the FGS results in a very small drift in the telescope pointing (or exposure) that is about $0.05''$ (i.e., less than half a pixel) for each 25 s individual (non-destructive) read. Each exposure will consist of eleven to twelve independent non-destructive reads, which will be shifted and combined when reducing the data to create an "un-smearred" image.

Proposal 14624 (STScI Edit Number: 4, Created: Tuesday, January 23, 2018 11:01:32 AM EST) - Overview

We will use one orbit per visit, and each visit will be composed of 8 exposures. Each of exposure will be made of eleven to twelve 25 seconds non-destructive read. Hence, once the reads are combined, each exposure be the equivalent of a ~300 seconds image.

In 8 orbits we will cover 64 pointings. We will cover the area of interest, the cluster NGC 2024, with a mosaic of eight by eight pointings.

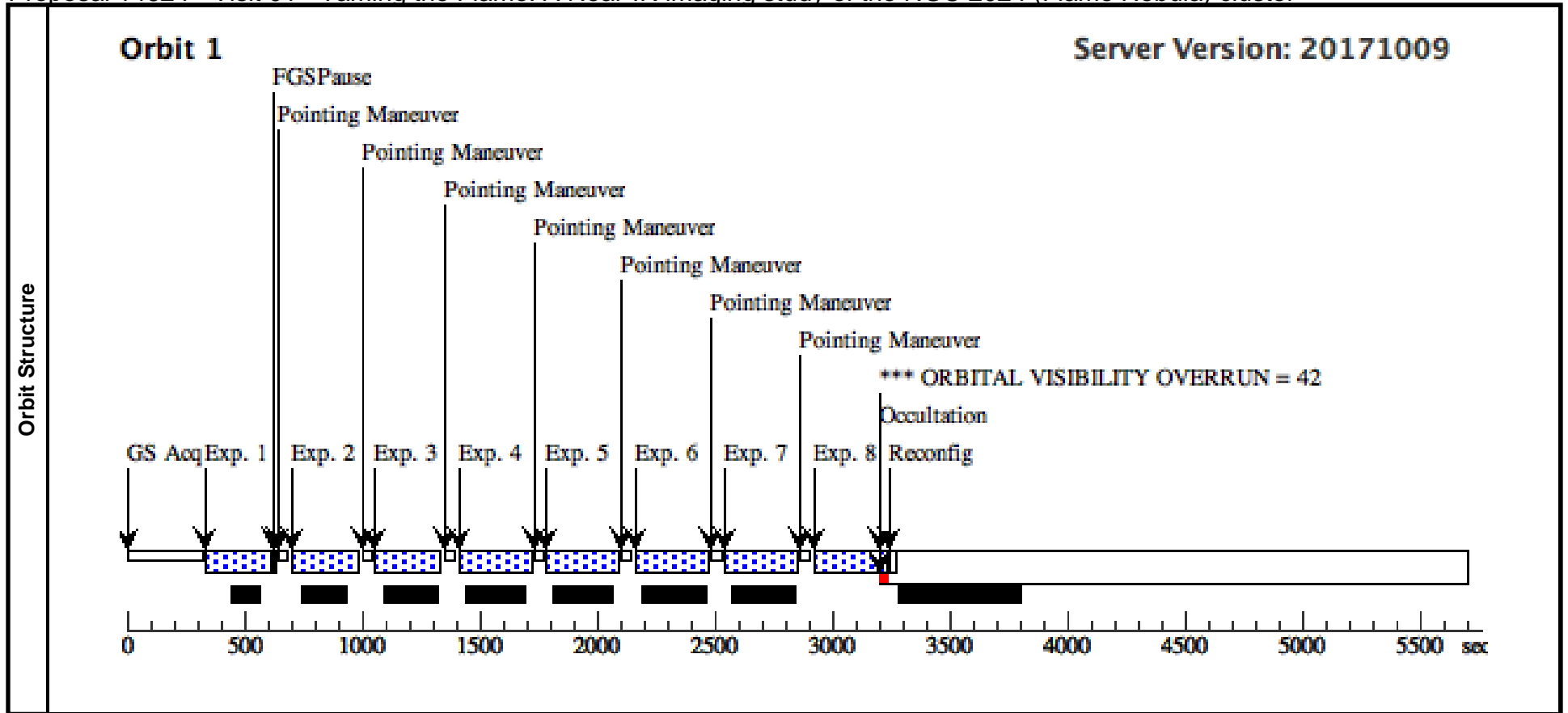
The cluster we plan to observe has an approximately round shape. Hence, in principle we do not have any constrains on the orient angle other than that all pointings should be taken with the same orientation. However, in order to be able to give precise positions of the different pointings we need to chose a particular orient angle in this phase 2 submission. We therefore chose an orientation that has a large range of available days (about 100) and all those days are available after Dec. 29, 2016 (in case there are still projects from the previous cycle still being observed in the fall of 2016). If this orient falls in an area where there is substantial oversubscription, we could then change the orient angle and re-do the phase 2 submission with the new pointings (if that is an option).

We request that the sequences of 8 exposures are not interrupted due to SAA avoidance. Hence, for each visit we have grouped all eight exposures into a non-interruptable sequence.

Proposal 14624 - Visit 01 - Taming the Flame: A Near-IR imaging study of the NGC 2024 (Flame Nebula) cluster

Tue Jan 23 16:01:33 GMT 2018

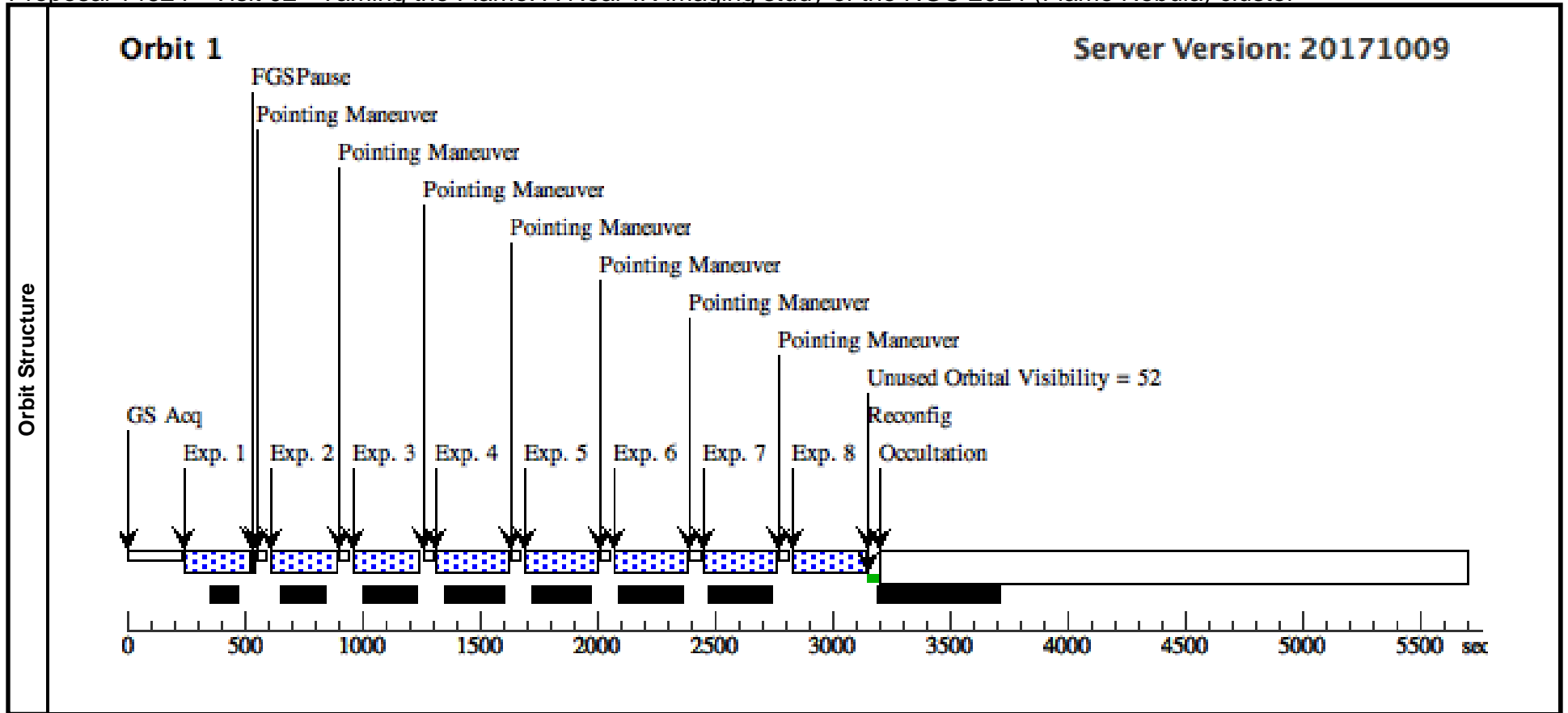
Visit	Proposal 14624, Visit 01, completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 52D TO 52 D																	
	Diagnostics	(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 01) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE																
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		1	(1) NGC-2024-T1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG 0,0; EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3	Sequence 1-8 Non-Int in Visit 01	252.937441 Secs (252.937 Secs) [==>]	[1]								
		2	(1) NGC-2024-T1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG -126,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 01	252.937441 Secs (252.937 Secs) [==>]	[1]								
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	7	(1) NGC-2024-T1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 252,113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 01	277.937956 Secs (277.938 Secs) [==>]	[1]									
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Proposal 14624 - Visit 02 - Taming the Flame: A Near-IR imaging study of the NGC 2024 (Flame Nebula) cluster

Tue Jan 23 16:01:33 GMT 2018

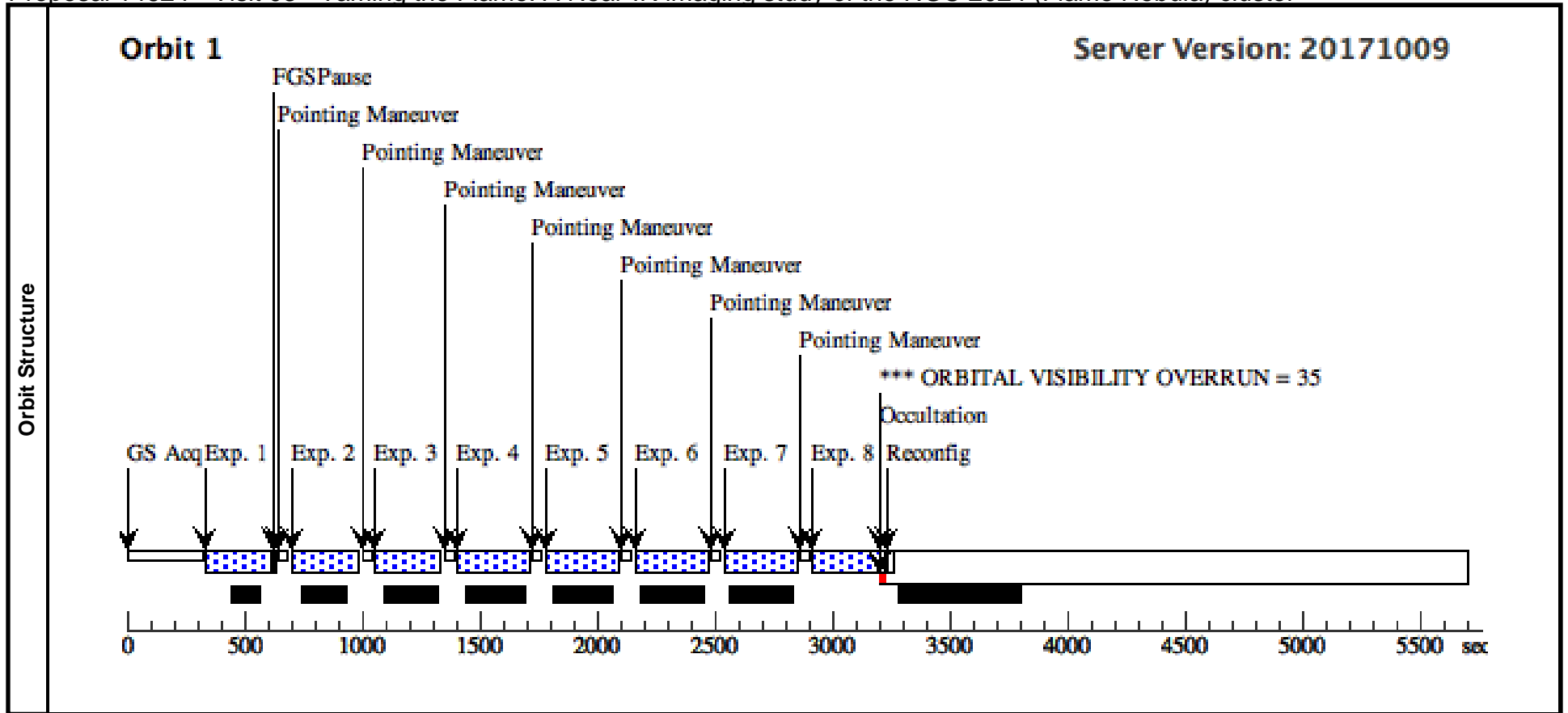
Visit	Proposal 14624, Visit 02, completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 52D TO 52 D																																																																																							
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Proposal 14624 - Visit 03 - Taming the Flame: A Near-IR imaging study of the NGC 2024 (Flame Nebula) cluster

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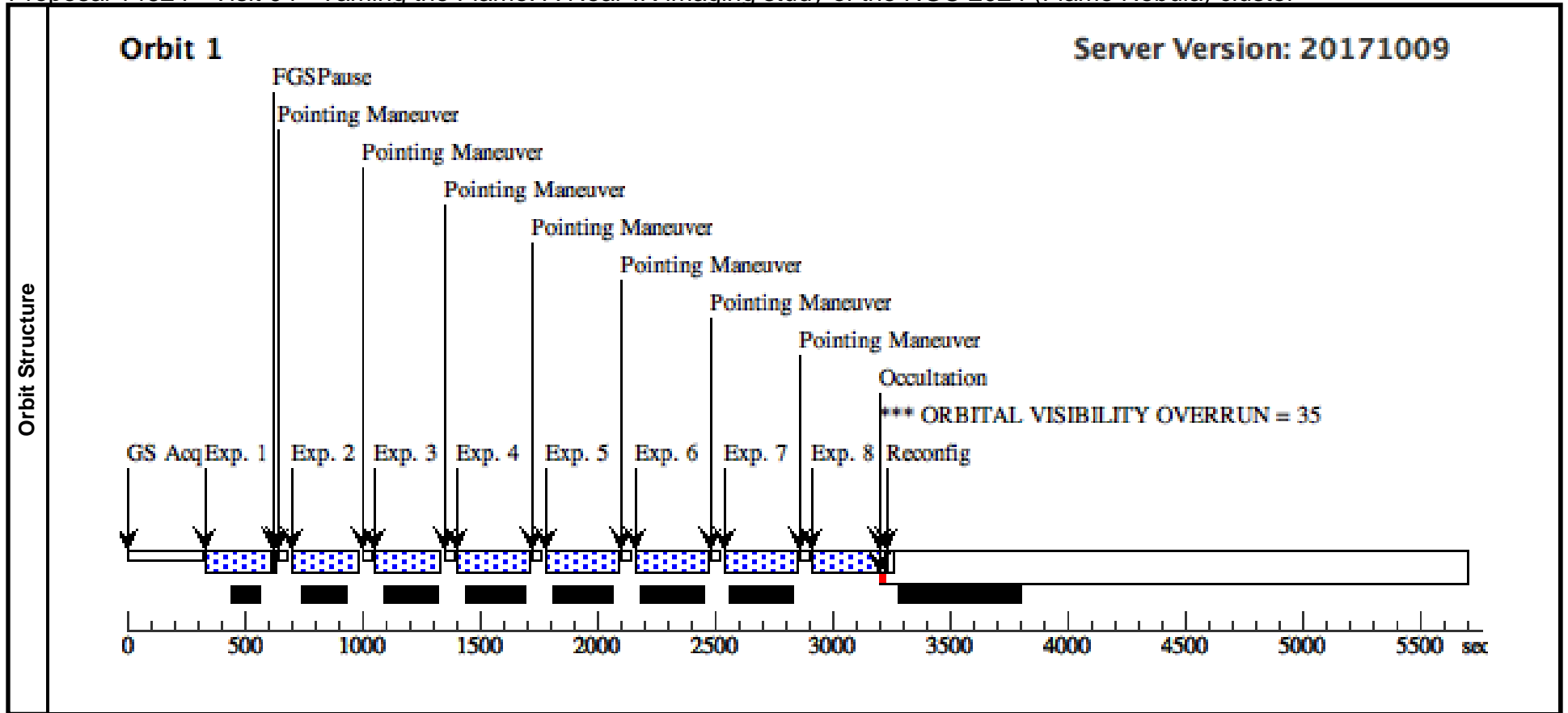
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		2	(3) NGC-2024-T3	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG 0,-113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 03	252.937441 Secs (252.937 Secs) [==>]	[1]																																																																														
	3	(3) NGC-2024-T3	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG 126,-113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 03	252.937441 Secs (252.937 Secs) [==>]	[1]																																																																															
	4	(3) NGC-2024-T3	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 126,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 03	277.937956 Secs (277.938 Secs) [==>]	[1]																																																																															
	5	(3) NGC-2024-T3	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 252,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 03	277.937956 Secs (277.938 Secs) [==>]	[1]																																																																															
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	7	(3) NGC-2024-T3	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 378,-113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 03	277.937956 Secs (277.938 Secs) [==>]	[1]																																																																															
8	(3) NGC-2024-T3	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 378,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 03	277.937956 Secs (277.938 Secs) [==>]	[1]																																																																																



Proposal 14624 - Visit 04 - Taming the Flame: A Near-IR imaging study of the NGC 2024 (Flame Nebula) cluster

Tue Jan 23 16:01:33 GMT 2018

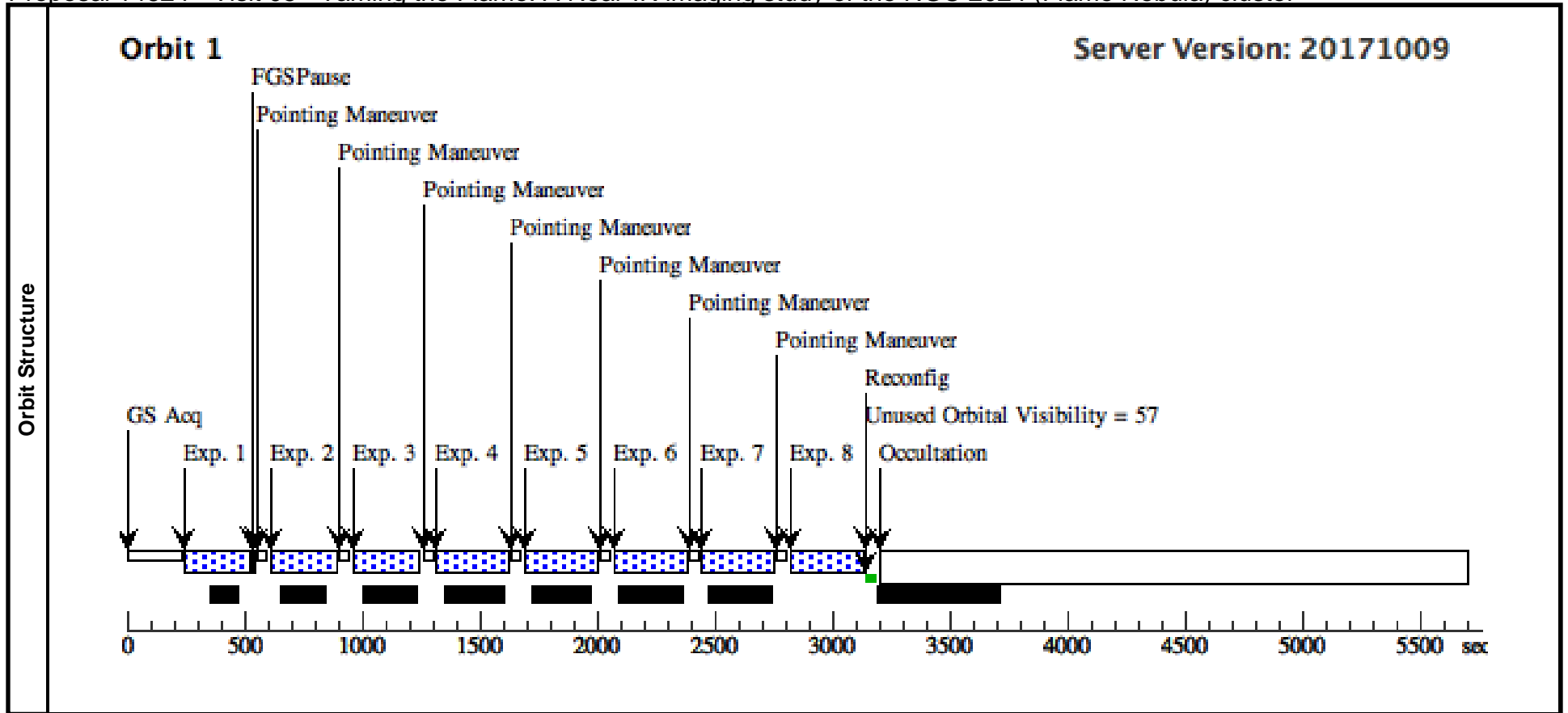
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Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(4)	NGC-2024-T4	RA: 05 41 27.6000 (85.3650000d) Dec: -01 46 36.00 (-1.77667d) Equinox: J2000		V=(?) Brightest star H = 11.8 mag	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STELLAR CLUSTER Description=[STAR FORMING REGION]											
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	(4) NGC-2024-T4	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG 0,0; EXP PCS MODE FI NE	Sequence 1-8 Non-Int in Visit 04	252.937441 Secs (252.937 Secs)	[==>]	[1]
		2	(4) NGC-2024-T4	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG 0,-113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 04	252.937441 Secs (252.937 Secs)	[==>]	[1]
		3	(4) NGC-2024-T4	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG -126,-113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 04	252.937441 Secs (252.937 Secs)	[==>]	[1]
	4	(4) NGC-2024-T4	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG -126,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 04	277.937956 Secs (277.938 Secs)	[==>]	[1]	
	5	(4) NGC-2024-T4	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG -252,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 04	277.937956 Secs (277.938 Secs)	[==>]	[1]	
	6	(4) NGC-2024-T4	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG -252,-113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 04	277.937956 Secs (277.938 Secs)	[==>]	[1]	
	7	(4) NGC-2024-T4	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG -378,-113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 04	277.937956 Secs (277.938 Secs)	[==>]	[1]	
	8	(4) NGC-2024-T4	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG -378,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 04	277.937956 Secs (277.938 Secs)	[==>]	[1]	



Proposal 14624 - Visit 05 - Taming the Flame: A Near-IR imaging study of the NGC 2024 (Flame Nebula) cluster

Tue Jan 23 16:01:33 GMT 2018

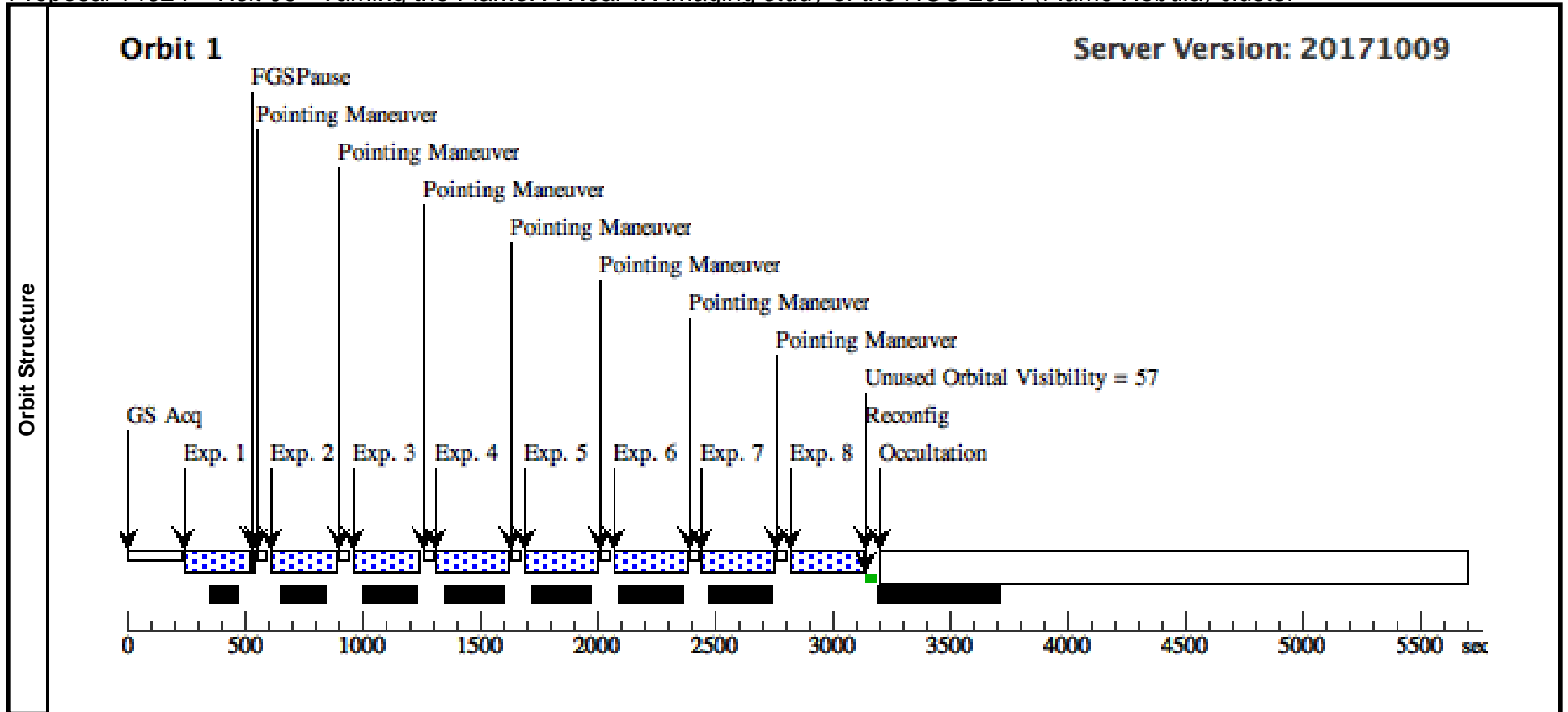
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	Diagnostics	(Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 05) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE																
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		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(5)		NGC-2024-T5	RA: 05 41 50.0000 (85.4583333d) Dec: -01 47 15.00 (-1.78750d) Equinox: J2000		V=(?) Brightest star H = 10.5 mag	Reference Frame: SIMBAD												
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit							
		1	(5) NGC-2024-T5	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG 0,0; EXP PCS MODE FI NE; GS ACQ SCENARI O SINGLE	Sequence 1-8 Non-Int in Visit 05	252.937441 Secs (252.937 Secs) [==>]	[1]								
		2	(5) NGC-2024-T5	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG 0,113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 05	252.937441 Secs (252.937 Secs) [==>]	[1]								
	3	(5) NGC-2024-T5	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG -126,11 3; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 05	252.937441 Secs (252.937 Secs) [==>]	[1]									
	4	(5) NGC-2024-T5	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG -126,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 05	277.937956 Secs (277.938 Secs) [==>]	[1]									
	5	(5) NGC-2024-T5	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG -252,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 05	277.937956 Secs (277.938 Secs) [==>]	[1]									
	6	(5) NGC-2024-T5	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG -252,11 3; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 05	277.937956 Secs (277.938 Secs) [==>]	[1]									
	7	(5) NGC-2024-T5	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG -378,11 3; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 05	277.937956 Secs (277.938 Secs) [==>]	[1]									
8	(5) NGC-2024-T5	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG -378,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 05	277.937956 Secs (277.938 Secs) [==>]	[1]										



Proposal 14624 - Visit 06 - Taming the Flame: A Near-IR imaging study of the NGC 2024 (Flame Nebula) cluster

Tue Jan 23 16:01:33 GMT 2018

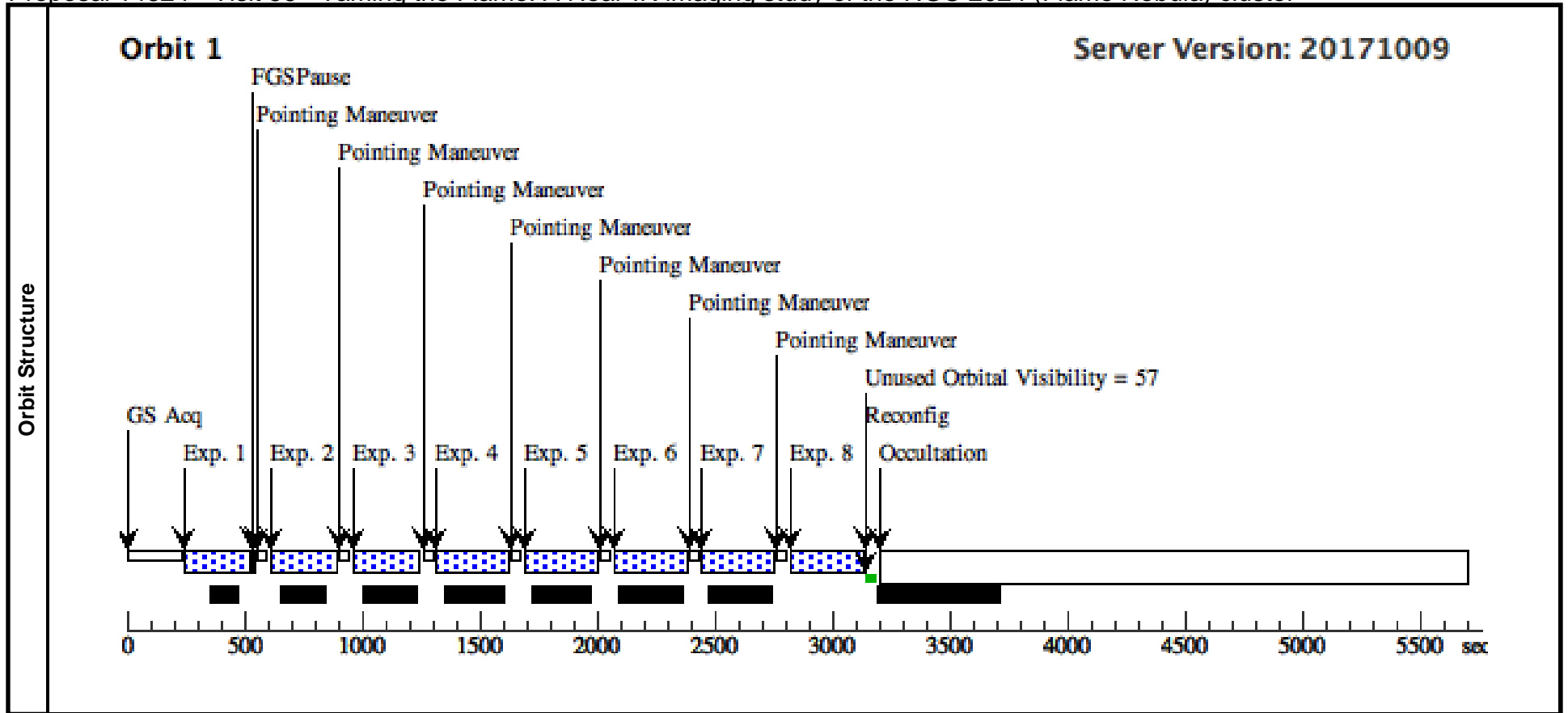
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Proposal 14624 - Visit 56 - Taming the Flame: A Near-IR imaging study of the NGC 2024 (Flame Nebula) cluster

Tue Jan 23 16:01:33 GMT 2018

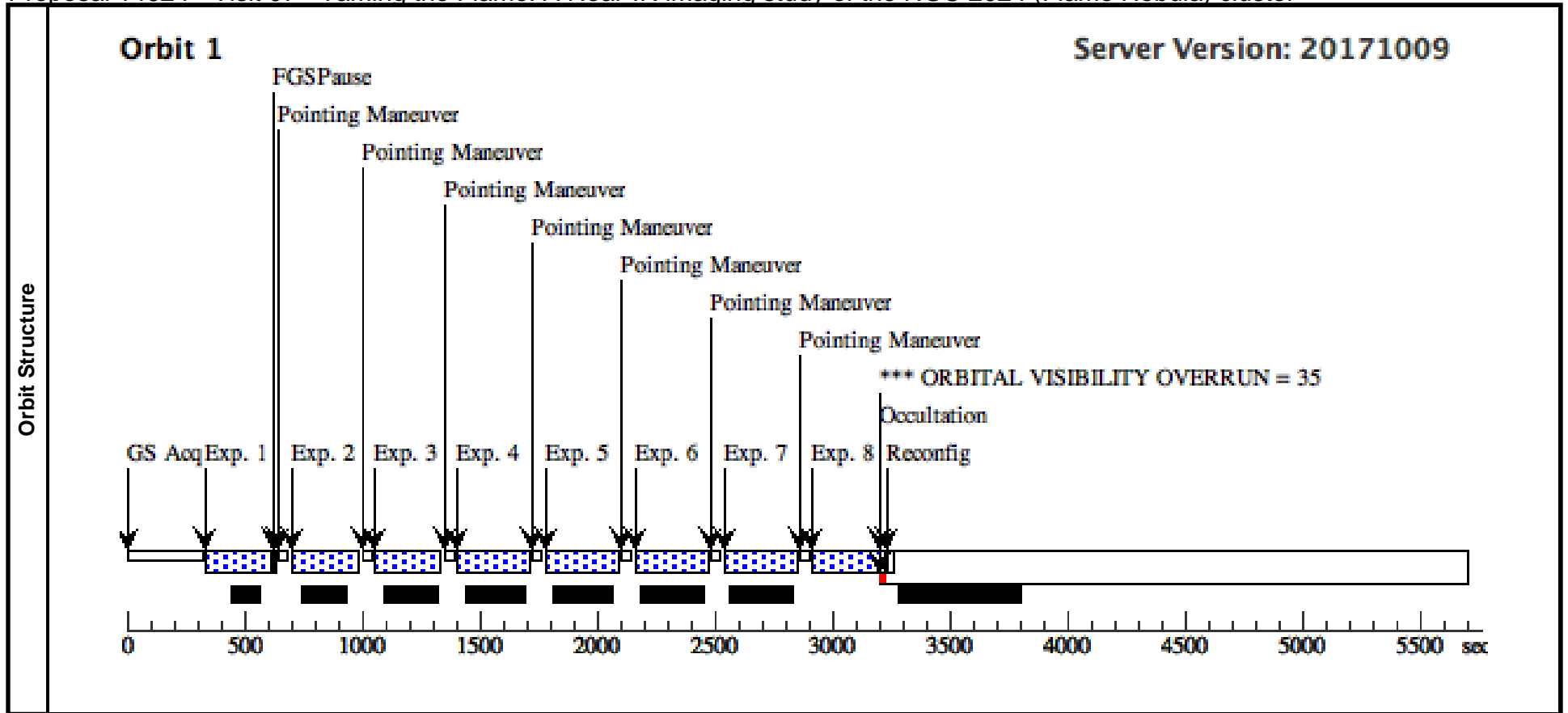
Visit	Proposal 14624, Visit 56 Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 52D TO 52 D																																																																																							
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Proposal 14624 - Visit 07 - Taming the Flame: A Near-IR imaging study of the NGC 2024 (Flame Nebula) cluster

Tue Jan 23 16:01:33 GMT 2018

Visit	Proposal 14624, Visit 07, scheduled Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 52D TO 52 D																	
	Diagnostics	(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 07) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 07) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 07) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 07) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 07) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 07) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 07) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE																
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		2	(7) NGC-2024-T7	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG 0,113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 07	252.937441 Secs (252.937 Secs) [==>]	[1]								
		3	(7) NGC-2024-T7	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG 126,113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 07	252.937441 Secs (252.937 Secs) [==>]	[1]								
	4	(7) NGC-2024-T7	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 126,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 07	277.937956 Secs (277.938 Secs) [==>]	[1]									
	5	(7) NGC-2024-T7	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 252,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 07	277.937956 Secs (277.938 Secs) [==>]	[1]									
	6	(7) NGC-2024-T7	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 252,113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 07	277.937956 Secs (277.938 Secs) [==>]	[1]									
	7	(7) NGC-2024-T7	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 378,113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 07	277.937956 Secs (277.938 Secs) [==>]	[1]									
	8	(7) NGC-2024-T7	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 378,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 07	277.937956 Secs (277.938 Secs) [==>]	[1]									



Proposal 14624 - Visit 08 - Taming the Flame: A Near-IR imaging study of the NGC 2024 (Flame Nebula) cluster

Tue Jan 23 16:01:33 GMT 2018

Visit	Proposal 14624, Visit 08, scheduled Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 52D TO 52 D																	
	Diagnostics	(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 08) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 08) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 08) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 08) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 08) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 08) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE																
Fixed Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(8)</td> <td>NGC-2024-T8</td> <td>RA: 05 41 35.7500 (85.3989583d) Dec: -02 01 38.00 (-2.02722d) Equinox: J2000</td> <td></td> <td>V=(?) Brightest star H = 6.5 mag</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STELLAR CLUSTER Description=[STAR FORMING REGION]</i></p>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(8)	NGC-2024-T8	RA: 05 41 35.7500 (85.3989583d) Dec: -02 01 38.00 (-2.02722d) Equinox: J2000		V=(?) Brightest star H = 6.5 mag	Reference Frame: SIMBAD
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Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit							
		1	(8) NGC-2024-T8	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG 0,0; EXP PCS MODE FI NE; GS ACQ SCENARI O BASE1B3	Sequence 1-8 Non-Int in Visit 08	252.937441 Secs (252.937 Secs) [==>]	[1]								
		2	(8) NGC-2024-T8	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG 0,-113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 08	252.937441 Secs (252.937 Secs) [==>]	[1]								
	3	(8) NGC-2024-T8	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=11	POS TARG 126,-113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 08	252.937441 Secs (252.937 Secs) [==>]	[1]									
	4	(8) NGC-2024-T8	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 126,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 08	277.937956 Secs (277.938 Secs) [==>]	[1]									
	5	(8) NGC-2024-T8	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 252,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 08	277.937956 Secs (277.938 Secs) [==>]	[1]									
	6	(8) NGC-2024-T8	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 252,-113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 08	277.937956 Secs (277.938 Secs) [==>]	[1]									
	7	(8) NGC-2024-T8	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 378,-113; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 08	277.937956 Secs (277.938 Secs) [==>]	[1]									
8	(8) NGC-2024-T8	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 25; NSAMP=12	POS TARG 378,0; EXP PCS MODE G YRO	Sequence 1-8 Non-Int in Visit 08	277.937956 Secs (277.938 Secs) [==>]	[1]										

