



13742 - Kinematics of a Massive Star Cluster in Formation

Cycle: 22, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Prof. Jonathan Charles Tan (PI) (Contact)	University of Florida	jt@astro.ufl.edu
Dr. Jessica R. Lu (CoI)	University of Hawaii	jlu@ifa.hawaii.edu
Dr. Morten Andersen (CoI) (ESA Member)	Laboratoire d'Astrophysique de Marseille	morten.andersen@lam.fr
Dr. Nicola Da Rio (CoI) (Contact)	University of Florida	ndario@ufl.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) BYF73A	WFC3/IR	2	19-Nov-2014 21:05:44.0	yes
02	(2) BYF73B	WFC3/IR	2	19-Nov-2014 21:05:49.0	yes
03	(3) BYF73C	WFC3/IR	2	19-Nov-2014 21:05:54.0	yes
53	(3) BYF73C	WFC3/IR	2	19-Nov-2014 21:06:01.0	yes
04	(4) BYF73D	WFC3/IR	2	19-Nov-2014 21:06:05.0	yes
05	(5) BYF73E	WFC3/IR	2	19-Nov-2014 21:06:09.0	yes
06	(6) BYF73F	WFC3/IR	2	19-Nov-2014 21:06:14.0	yes
07	(7) BYF73G	WFC3/IR	2	19-Nov-2014 21:06:18.0	yes
08	(8) BYF73H	WFC3/IR	2	19-Nov-2014 21:06:23.0	yes
09	(9) BYF73I	WFC3/IR	2	19-Nov-2014 21:06:27.0	yes

20 Total Orbits Used

ABSTRACT

We propose to measure the proper motion stellar kinematics of a massive ($\sim 10^4 M_{\text{sun}}$), forming proto-star-cluster to test basic theoretical models of formation. This will be the first time such a measurement has been performed. It requires HST-WFC3/IR and is beyond the practical capabilities of ground-based adaptive optics (AO) observations. In contrast to previously-studied massive, young (< 10 Myr-old), already-formed clusters, such as NGC3603, Westerlund 1 or the Arches, our target protocluster, G286.21+0.17 (hereafter G286), is still gas-dominated and undergoing active star formation. It has been carefully selected from a complete survey of ~ 300 dense molecular gas clumps in a 120 sq. deg. region of the Galactic plane. The cluster is also relatively nearby (~ 2.5 kpc), but not too close that it would span a prohibitively large angular area or suffer from significant saturation problems. Such massive systems are rare and indeed we are unaware of any equivalent, early-stage (i.e., gas dominated) cluster that is closer. Given the depth of its gravitational potential based on its mass and size, the expected proper motions of many independent sub-clusters of stars are detectable at the ~ 5 sigma level over a 2-year baseline and global contraction of the cluster can be seen if it is happening even at just $\sim 10\%$ of the free-fall rate.

OBSERVING DESCRIPTION

IMPORTANT NOTES ABOUT SCHEDULING

This program is the first epoch of a multi-cycle program to derive astrometric proper motions.

As such, it is critical for us that the visits are scheduled as close as possible to the beginning of Cycle 22.

Our constraints to match the same FOV of ground based AO K-band observations already in our hands requires us to use a given orientation of our 3x3 mosaic, or rotations of it of multiples of 90 degrees.

Thus, the best solution for our science case is, as we have specified in this Phase II, to constrain the ORIENT angle such that the observations will be scheduled in October 2014.

We understand that this period has lower schedulability than other periods of the cycle.

IN CASE OF SCHEDULING CONFLICTS, HOWEVER, WE COULD ALSO ROTATE THE ORIENT 90 DEGREES, and have the observations taken in January 2015.

Such modification, although not optimal, would still be acceptable for us. Note that it would require a small modification of the target coordinates,

in order to preserve the overlap between the individual pointings given that WFC3/IR has a rectangular FOV in the sky.

Please inform us if any schedulability problems will occur.

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Additional summary on the program.

This is a 3x3 mosaic of 9 pointings. Each pointing is a visit. Each visit 2 orbits. The same setup of exposures in 3 filters, dithering, etc is identical for all the 9 visits.

We have allowed a 20 degrees range of the orient angle, and constrained all visits to share the same orient as the first visit.

For practical reasons, instead of using the mosaic tool of the APT phase II, we have manually defined 9 targets, one for each tile of the mosaics. Similarly, in each exposure we have manually defined the dithering patterns through the POS ARG keywords.

Proposal 13742 - Visit 01 - Kinematics of a Massive Star Cluster in Formation

Thu Nov 20 02:06:29 GMT 2014

Visit	Proposal 13742, Visit 01, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 215D TO 235 D; BEFORE 01-MAR-2015:00:00:00 Comments: -					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(1)	BYF73A	RA: 10 38 20.3223 (159.5846762d) Dec: -58 17 30.72 (-58.29187d) Equinox: J2000		V=9.0+/-0.5	Reference Frame: ICRS

Proposal 13742 - Visit 01 - Kinematics of a Massive Star Cluster in Formation

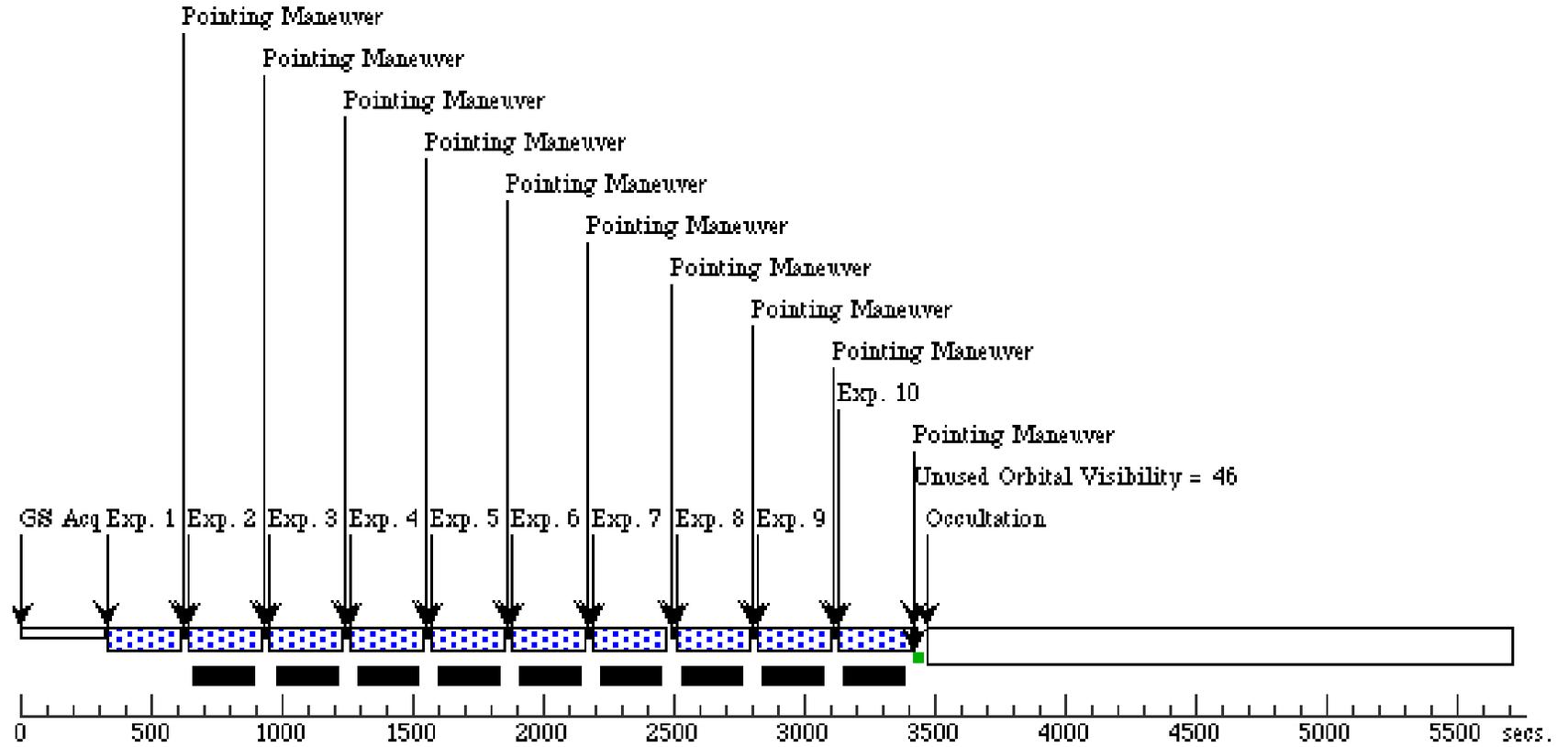
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F167N exp0 1	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0,0		249.23203 Secs (249.232 Secs)	[1]
	2	F167N exp0 2	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.15808 2,0.201825		249.23203 Secs (249.232 Secs)	[1]
	3	F167N exp0 3	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.2032 50,0.484400		249.23203 Secs (249.232 Secs)	[1]
	4	F167N exp0 4	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.4742 50 ,0.242200		249.23203 Secs (249.232 Secs)	[1]
	5	F167N exp0 5	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.6323 38 ,-0.0807374		249.23203 Secs (249.232 Secs)	[1]
	6	F167N exp0 6	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.7791 25,-0.635775		249.23203 Secs (249.232 Secs)	[1]
	7	F167N exp0 7	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -1.2195 0,-1.02935		249.23203 Secs (249.232 Secs)	[1]
	8	F167N exp0 8	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.0225 879 ,-0.565137		249.23203 Secs (249.232 Secs)	[1]
	9	F167N exp0 9	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.33875 0 ,-0.423850		249.23203 Secs (249.232 Secs)	[1]
	10	F167N exp1 0	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.54200 0 ,-0.242200		249.23203 Secs (249.232 Secs)	[1]
	11	F167N exp1 1	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.13550 00000000003,1.2715 55		249.23203 Secs (249.232 Secs)	[2]
	12	F167N exp1 2	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.91462 5 ,0.454125		249.23203 Secs (249.232 Secs)	[2]
	13	F167N exp1 3	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.03882 ,0.928425		249.23203 Secs (249.232 Secs)	[2]
	14	F167N exp1 4	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018		249.23203 Secs (249.232 Secs)	[2]
	15	F160W exp1 0	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 1.25337 ,1.12018		299.232481 Secs (299.232 Secs)	[2]
16	F160W exp2 0	(1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 0.93725 3,0.837649		299.232481 Secs (299.232 Secs)	[2]	

Proposal 13742 - Visit 01 - Kinematics of a Massive Star Cluster in Formation

17	F160W exp3 (1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2,0.555122	249.23203 Secs (249.232 Secs)	[==>]	[2]
18	F110W exp1 (1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2 ,0.555122	249.23203 Secs (249.232 Secs)	[==>]	[2]
19	F110W exp2 (1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.93725 3,0.837649	249.23203 Secs (249.232 Secs)	[==>]	[2]
20	F110W exp3 (1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018	249.23203 Secs (249.232 Secs)	[==>]	[2]
21	F110W exp short (1) BYF73A	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 1.25337 , 1.12018	43.984365 Secs (43.984 Secs)	[==>]	[2]

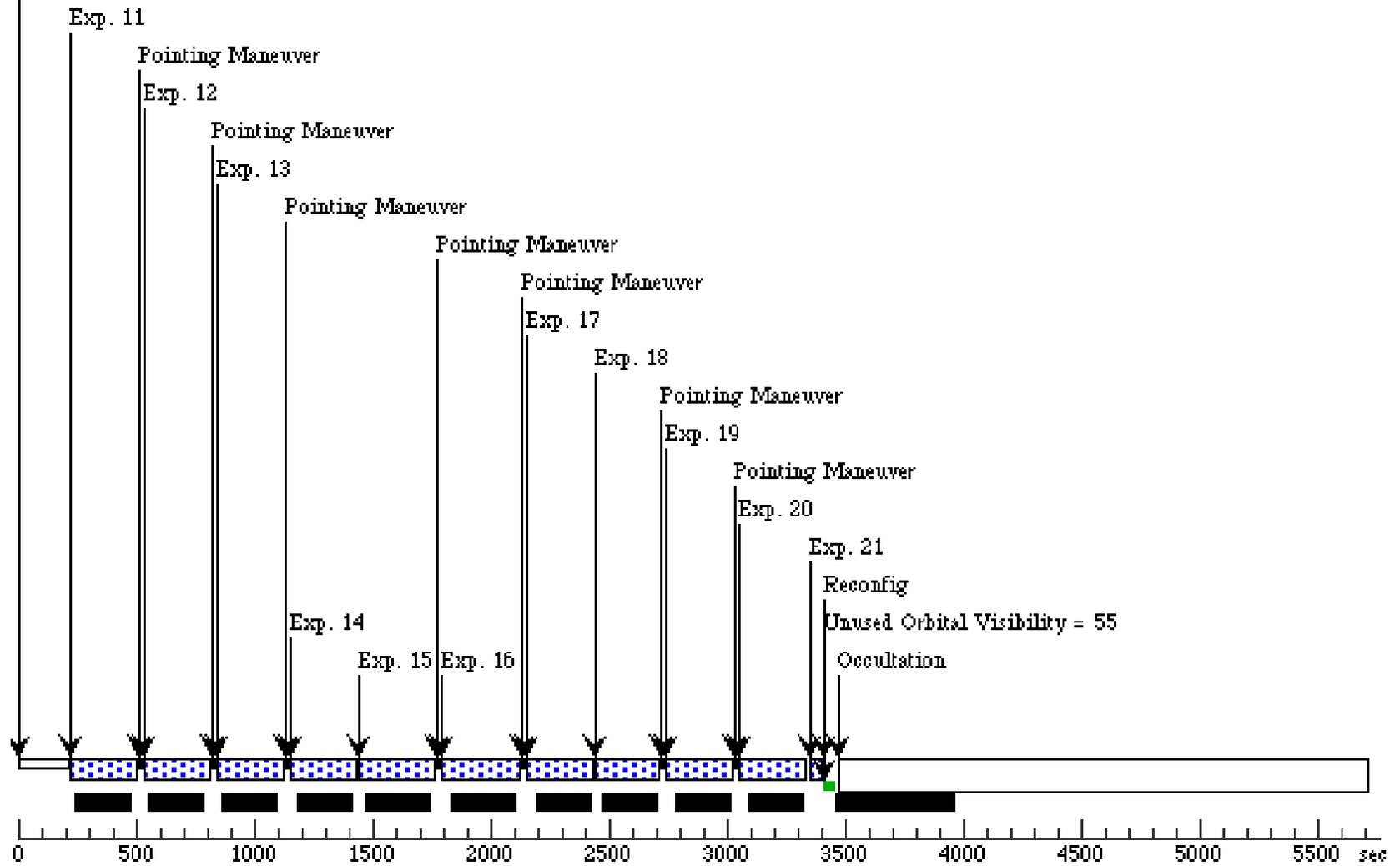
Orbit 1

Orbit Structure



Orbit 2

GS Reacq



Proposal 13742 - Visit 02 - Kinematics of a Massive Star Cluster in Formation

Thu Nov 20 02:06:29 GMT 2014

Visit	Proposal 13742, Visit 02, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01; BEFORE 01-MAR-2015:00:00:00 Comments: -					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(2)	BYF73B	RA: 10 38 33.1267 (159.6380279d) Dec: -58 17 30.72 (-58.29187d) Equinox: J2000		V=9.0+/-0.5	Reference Frame: ICRS

Proposal 13742 - Visit 02 - Kinematics of a Massive Star Cluster in Formation

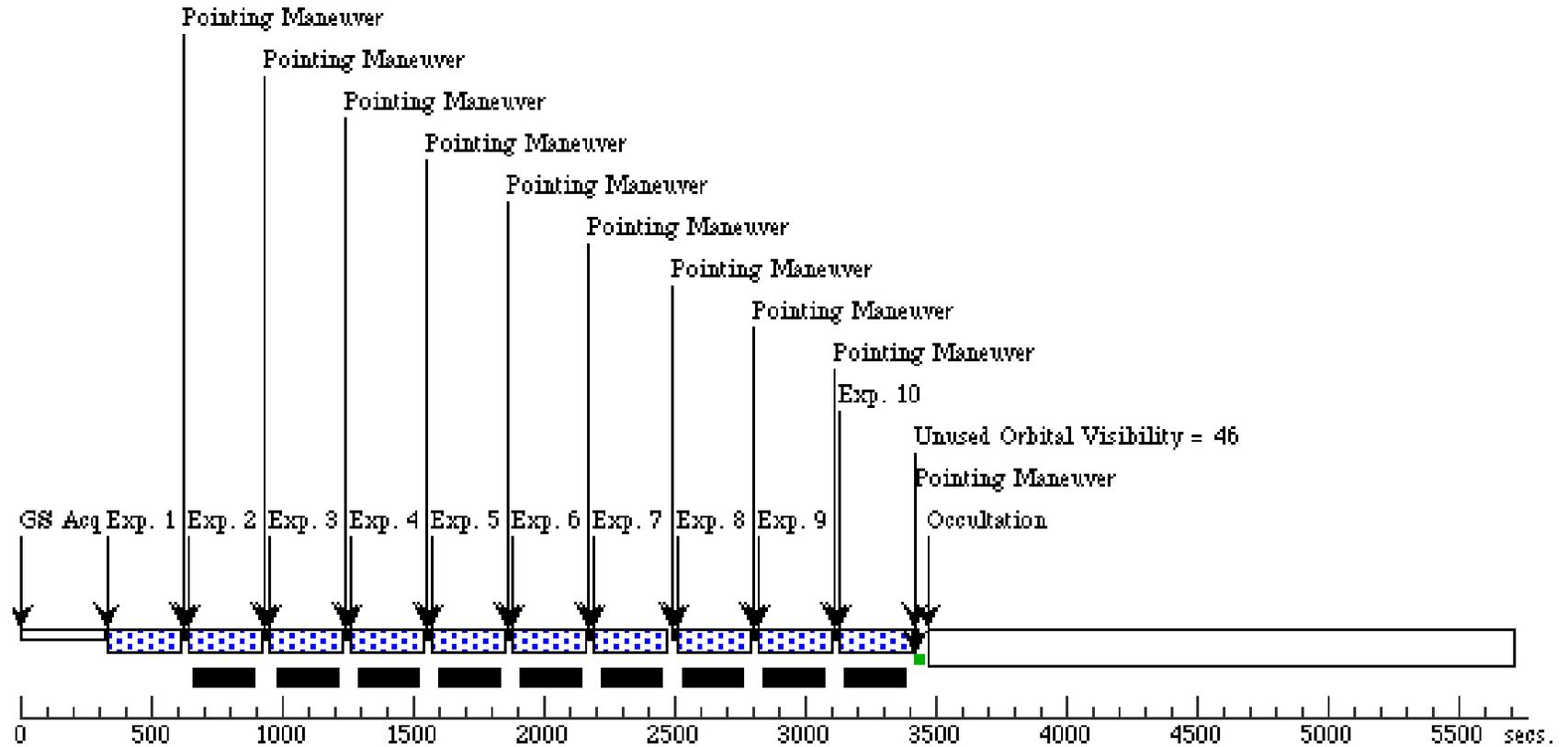
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F167N exp0 1	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0,0		249.23203 Secs (249.232 Secs)	[1]
	2	F167N exp0 2	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.15808 2,0.201825		249.23203 Secs (249.232 Secs)	[1]
	3	F167N exp0 3	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.2032 50,0.484400		249.23203 Secs (249.232 Secs)	[1]
	4	F167N exp0 4	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.4742 50 ,0.242200		249.23203 Secs (249.232 Secs)	[1]
	5	F167N exp0 5	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.6323 38 ,-0.0807374		249.23203 Secs (249.232 Secs)	[1]
	6	F167N exp0 6	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.7791 25,-0.635775		249.23203 Secs (249.232 Secs)	[1]
	7	F167N exp0 7	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -1.2195 0,-1.02935		249.23203 Secs (249.232 Secs)	[1]
	8	F167N exp0 8	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.0225 879 ,-0.565137		249.23203 Secs (249.232 Secs)	[1]
	9	F167N exp0 9	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.33875 0 ,-0.423850		249.23203 Secs (249.232 Secs)	[1]
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	12	F167N exp1 2	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.91462 5 ,0.454125		249.23203 Secs (249.232 Secs)	[2]
	13	F167N exp1 3	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.03882 ,0.928425		249.23203 Secs (249.232 Secs)	[2]
	14	F167N exp1 4	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018		249.23203 Secs (249.232 Secs)	[2]
	15	F160W exp1 0	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 1.25337 ,1.12018		299.232481 Secs (299.232 Secs)	[2]
16	F160W exp2 0	(2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 0.93725 3,0.837649		299.232481 Secs (299.232 Secs)	[2]	

Proposal 13742 - Visit 02 - Kinematics of a Massive Star Cluster in Formation

17	F160W exp3 (2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2,0.555122	249.23203 Secs (249.232 Secs) [==>]	[2]
18	F110W exp1 (2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2 ,0.555122	249.23203 Secs (249.232 Secs) [==>]	[2]
19	F110W exp2 (2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.93725 3,0.837649	249.23203 Secs (249.232 Secs) [==>]	[2]
20	F110W exp3 (2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018	249.23203 Secs (249.232 Secs) [==>]	[2]
21	F110W exp short (2) BYF73B	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 1.25337 , 1.12018	43.984365 Secs (43.984 Secs) [==>]	[2]

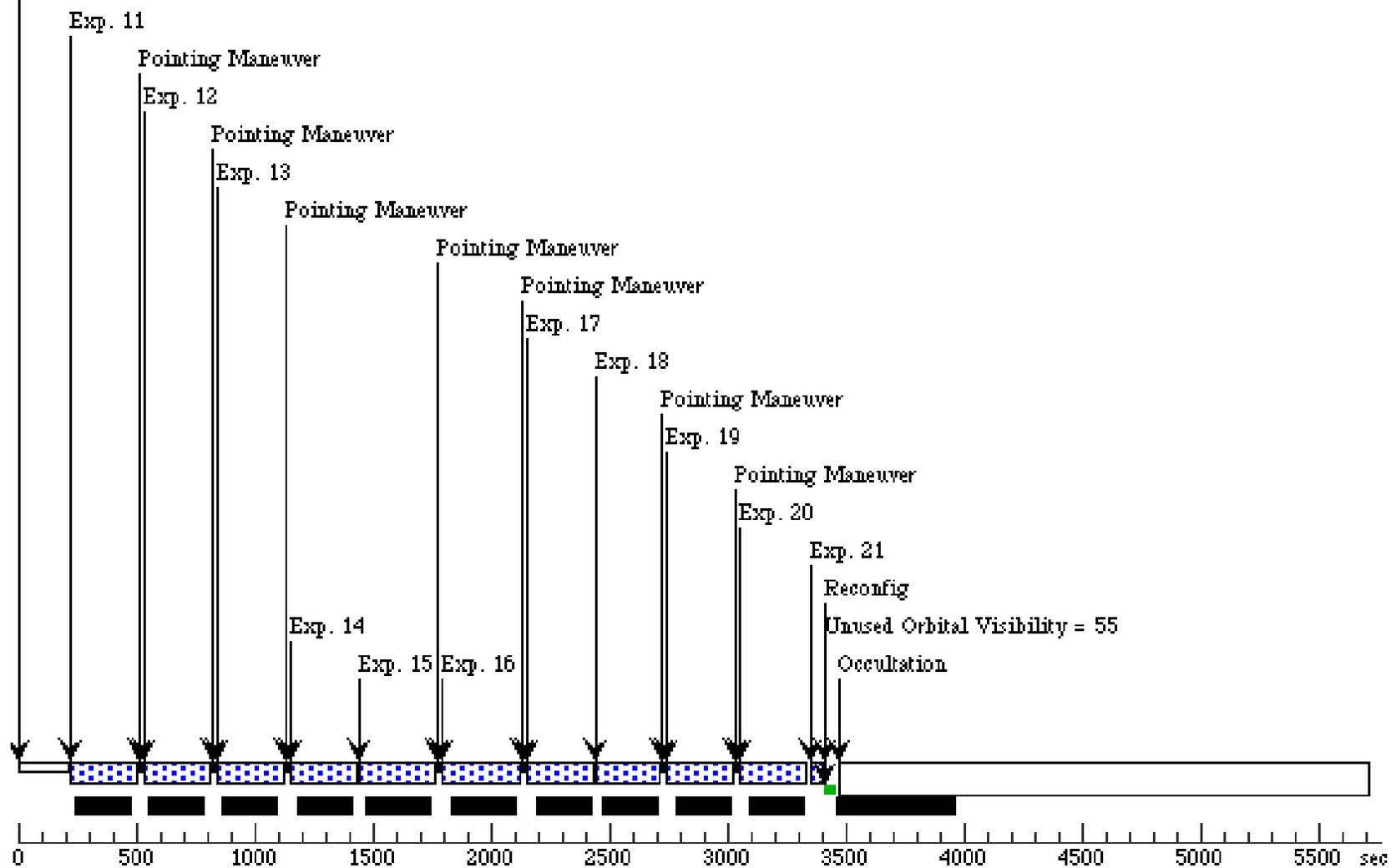
Orbit 1

Orbit Structure



Orbit 2

GS Reacq



Proposal 13742 - Visit 03 - Kinematics of a Massive Star Cluster in Formation

Thu Nov 20 02:06:30 GMT 2014

Visit	<p>Proposal 13742, Visit 03, failed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: SAME ORIENT AS 01; BEFORE 01-MAR-2015:00:00:00</p> <p><i>Comments: -</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(3)		BYF73C	RA: 10 38 45.9311 (159.6913796d) Dec: -58 17 30.72 (-58.29187d) Equinox: J2000		V=9.0+/-0.5	Reference Frame: ICRS

Proposal 13742 - Visit 03 - Kinematics of a Massive Star Cluster in Formation

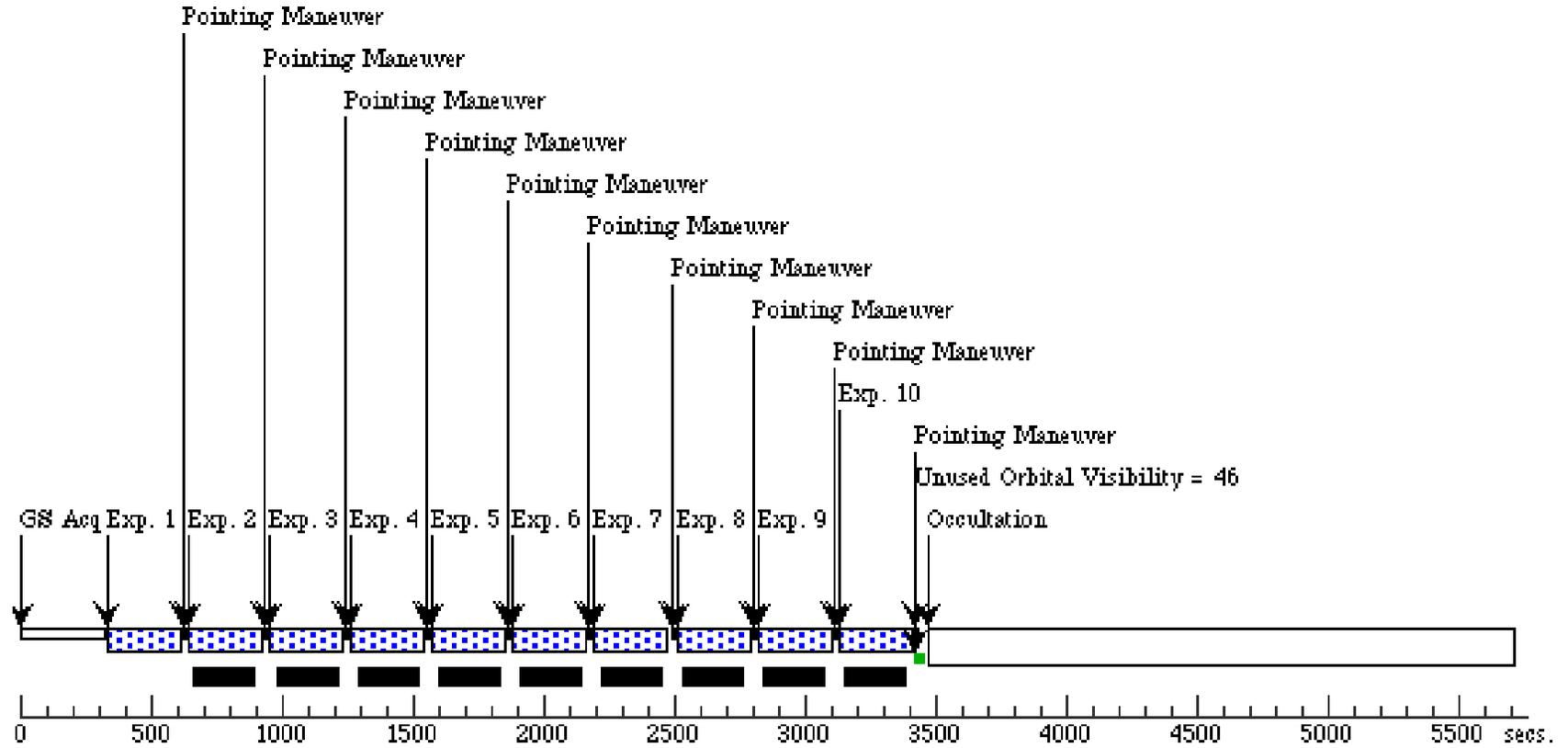
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F167N exp0 1	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0,0		249.23203 Secs (249.232 Secs)	[1]
	2	F167N exp0 2	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.15808 2,0.201825		249.23203 Secs (249.232 Secs)	[1]
	3	F167N exp0 3	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.2032 50,0.484400		249.23203 Secs (249.232 Secs)	[1]
	4	F167N exp0 4	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.4742 50 ,0.242200		249.23203 Secs (249.232 Secs)	[1]
	5	F167N exp0 5	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.6323 38 ,-0.0807374		249.23203 Secs (249.232 Secs)	[1]
	6	F167N exp0 6	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.7791 25,-0.635775		249.23203 Secs (249.232 Secs)	[1]
	7	F167N exp0 7	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -1.2195 0,-1.02935		249.23203 Secs (249.232 Secs)	[1]
	8	F167N exp0 8	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.0225 879 ,-0.565137		249.23203 Secs (249.232 Secs)	[1]
	9	F167N exp0 9	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.33875 0 ,-0.423850		249.23203 Secs (249.232 Secs)	[1]
	10	F167N exp1 0	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.54200 0 ,-0.242200		249.23203 Secs (249.232 Secs)	[1]
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	12	F167N exp1 2	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.91462 5 ,0.454125		249.23203 Secs (249.232 Secs)	[2]
	13	F167N exp1 3	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.03882 ,0.928425		249.23203 Secs (249.232 Secs)	[2]
	14	F167N exp1 4	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018		249.23203 Secs (249.232 Secs)	[2]
	15	F160W exp1 0	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 1.25337 ,1.12018		299.232481 Secs (299.232 Secs)	[2]
16	F160W exp2 0	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 0.93725 3,0.837649		299.232481 Secs (299.232 Secs)	[2]	

Proposal 13742 - Visit 03 - Kinematics of a Massive Star Cluster in Formation

17	F160W exp3 (3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2,0.555122	249.23203 Secs (249.232 Secs)	[==>]	[2]
18	F110W exp1 (3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2 ,0.555122	249.23203 Secs (249.232 Secs)	[==>]	[2]
19	F110W exp2 (3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.93725 3,0.837649	249.23203 Secs (249.232 Secs)	[==>]	[2]
20	F110W exp3 (3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018	249.23203 Secs (249.232 Secs)	[==>]	[2]
21	F110W exp short (3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 1.25337 , 1.12018	43.984365 Secs (43.984 Secs)	[==>]	[2]

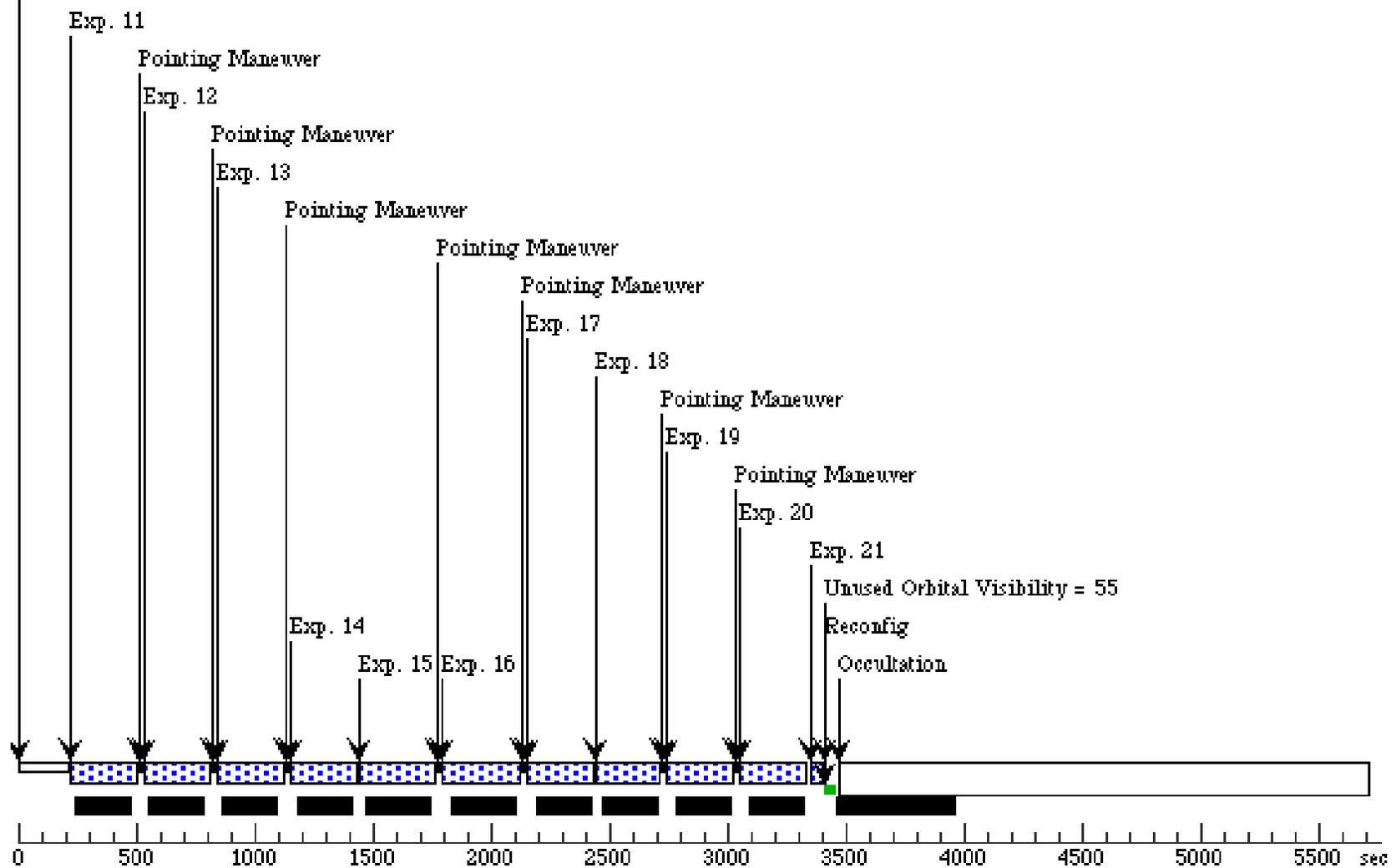
Orbit 1

Orbit Structure



Orbit 2

GS Reacq



Proposal 13742 - Visit 53 - Kinematics of a Massive Star Cluster in Formation

Thu Nov 20 02:06:30 GMT 2014

Visit	Proposal 13742, Visit 53, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 305D TO 305 D; BEFORE 01-MAR-2015:00:00:00 Comments: -					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(3)	BYF73C	RA: 10 38 45.9311 (159.6913796d) Dec: -58 17 30.72 (-58.29187d) Equinox: J2000		V=9.0+/-0.5	Reference Frame: ICRS

Proposal 13742 - Visit 53 - Kinematics of a Massive Star Cluster in Formation

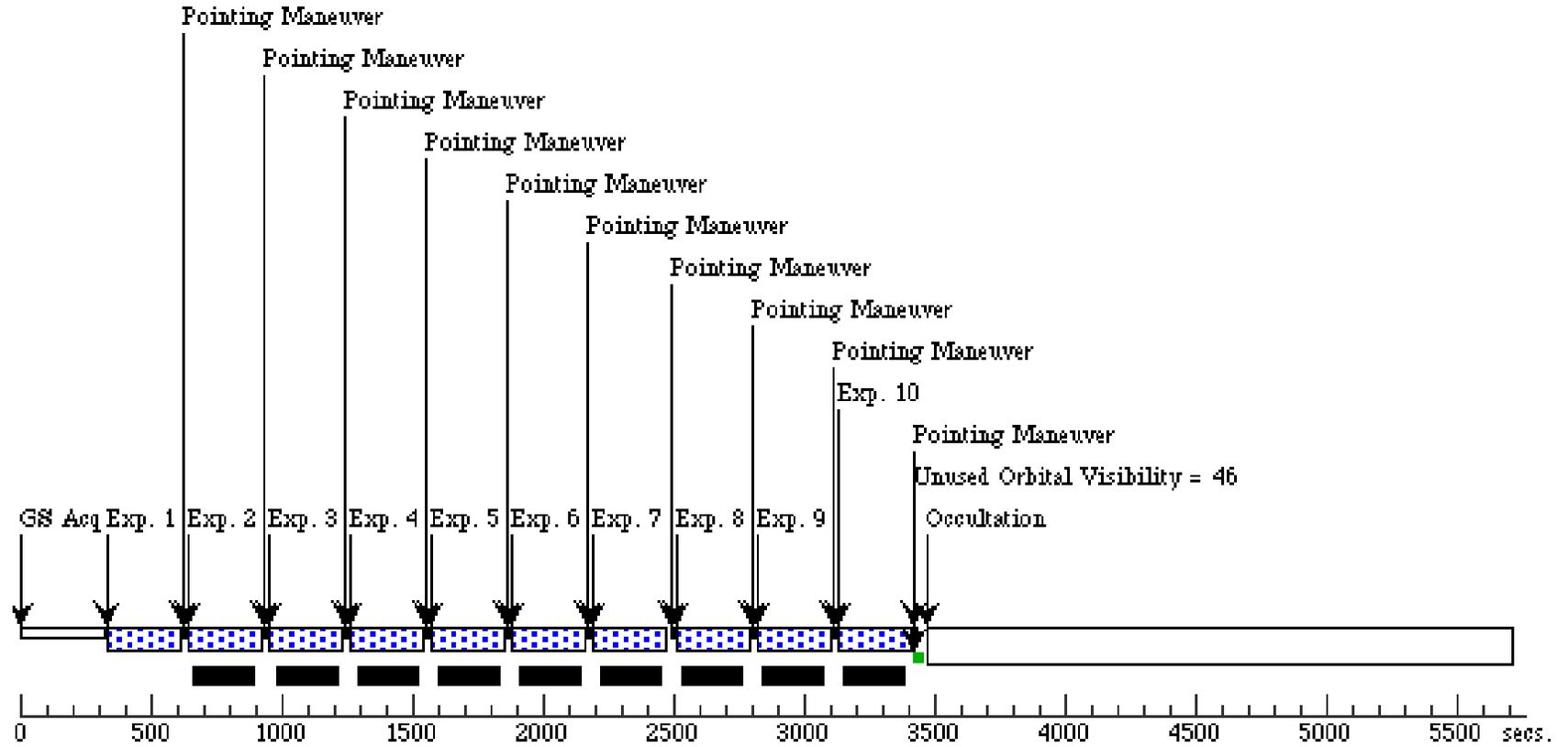
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F167N exp0 1	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0,0		249.23203 Secs (249.232 Secs)	[1]
	2	F167N exp0 2	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.15808 2,0.201825		249.23203 Secs (249.232 Secs)	[1]
	3	F167N exp0 3	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.2032 50,0.484400		249.23203 Secs (249.232 Secs)	[1]
	4	F167N exp0 4	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.4742 50 ,0.242200		249.23203 Secs (249.232 Secs)	[1]
	5	F167N exp0 5	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.6323 38 ,-0.0807374		249.23203 Secs (249.232 Secs)	[1]
	6	F167N exp0 6	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.7791 25,-0.635775		249.23203 Secs (249.232 Secs)	[1]
	7	F167N exp0 7	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -1.2195 0,-1.02935		249.23203 Secs (249.232 Secs)	[1]
	8	F167N exp0 8	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.0225 879 ,-0.565137		249.23203 Secs (249.232 Secs)	[1]
	9	F167N exp0 9	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.33875 0 ,-0.423850		249.23203 Secs (249.232 Secs)	[1]
	10	F167N exp1 0	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.54200 0 ,-0.242200		249.23203 Secs (249.232 Secs)	[1]
	11	F167N exp1 1	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.13550 00000000003,1.2715 55		249.23203 Secs (249.232 Secs)	[2]
	12	F167N exp1 2	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.91462 5 ,0.454125		249.23203 Secs (249.232 Secs)	[2]
	13	F167N exp1 3	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.03882 ,0.928425		249.23203 Secs (249.232 Secs)	[2]
	14	F167N exp1 4	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018		249.23203 Secs (249.232 Secs)	[2]
	15	F160W exp1 0	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 1.25337 ,1.12018		299.232481 Secs (299.232 Secs)	[2]
16	F160W exp2 0	(3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 0.93725 3,0.837649		299.232481 Secs (299.232 Secs)	[2]	

Proposal 13742 - Visit 53 - Kinematics of a Massive Star Cluster in Formation

17	F160W exp3 (3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2,0.555122	249.23203 Secs (249.232 Secs) [==>]	[2]
18	F110W exp1 (3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2 ,0.555122	249.23203 Secs (249.232 Secs) [==>]	[2]
19	F110W exp2 (3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.93725 3,0.837649	249.23203 Secs (249.232 Secs) [==>]	[2]
20	F110W exp3 (3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018	249.23203 Secs (249.232 Secs) [==>]	[2]
21	F110W exp short (3) BYF73C	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 1.25337 , 1.12018	43.984365 Secs (43.984 Secs) [==>]	[2]

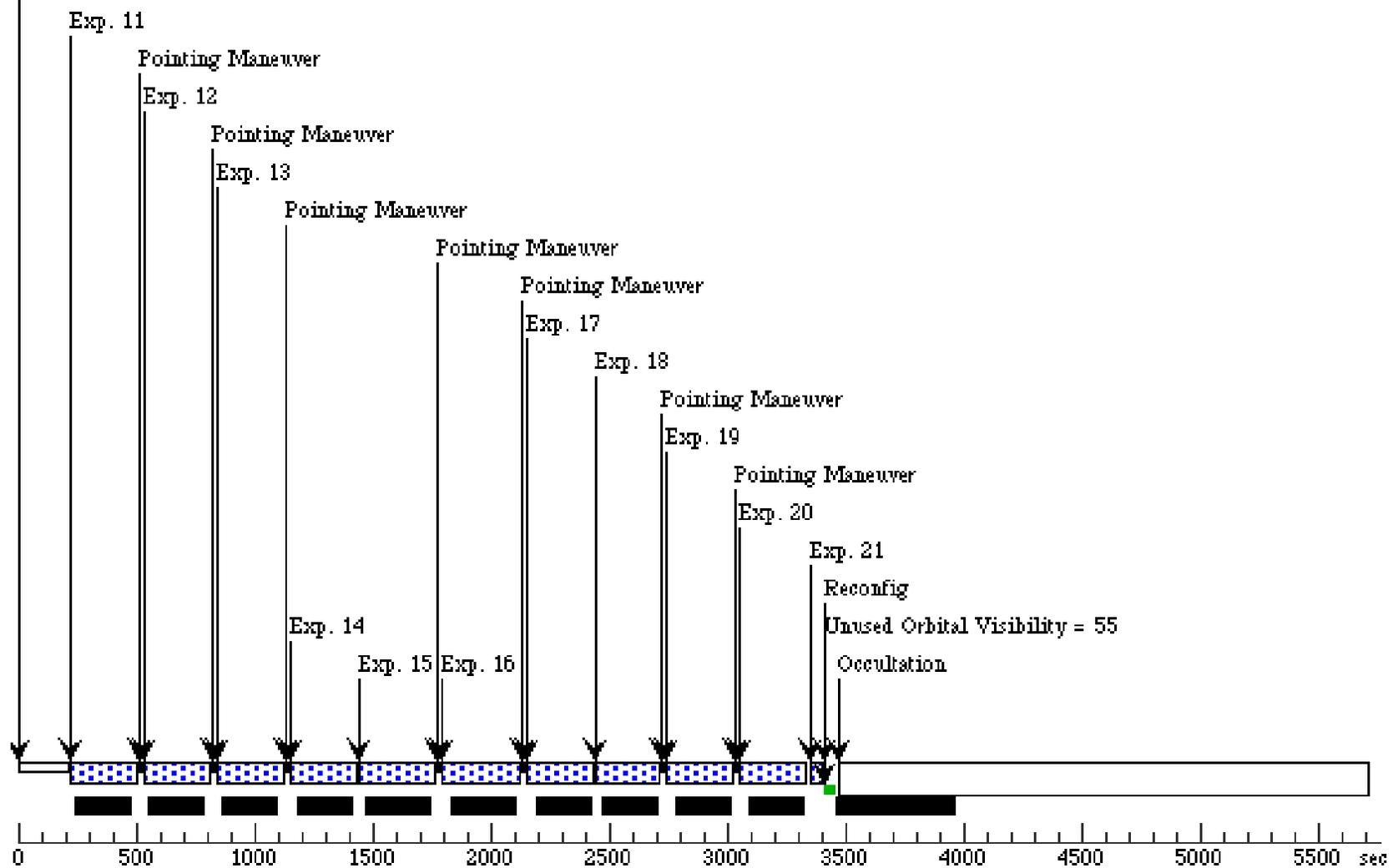
Orbit 1

Orbit Structure



Orbit 2

GS Reacq



Proposal 13742 - Visit 04 - Kinematics of a Massive Star Cluster in Formation

Thu Nov 20 02:06:30 GMT 2014

Visit	Proposal 13742, Visit 04, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01; BEFORE 01-MAR-2015:00:00:00 Comments: -					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(4)	BYF73D	RA: 10 38 20.3223 (159.5846762d) Dec: -58 19 22.24 (-58.32284d) Equinox: J2000		V=9.0+/-0.5	Reference Frame: ICRS

Proposal 13742 - Visit 04 - Kinematics of a Massive Star Cluster in Formation

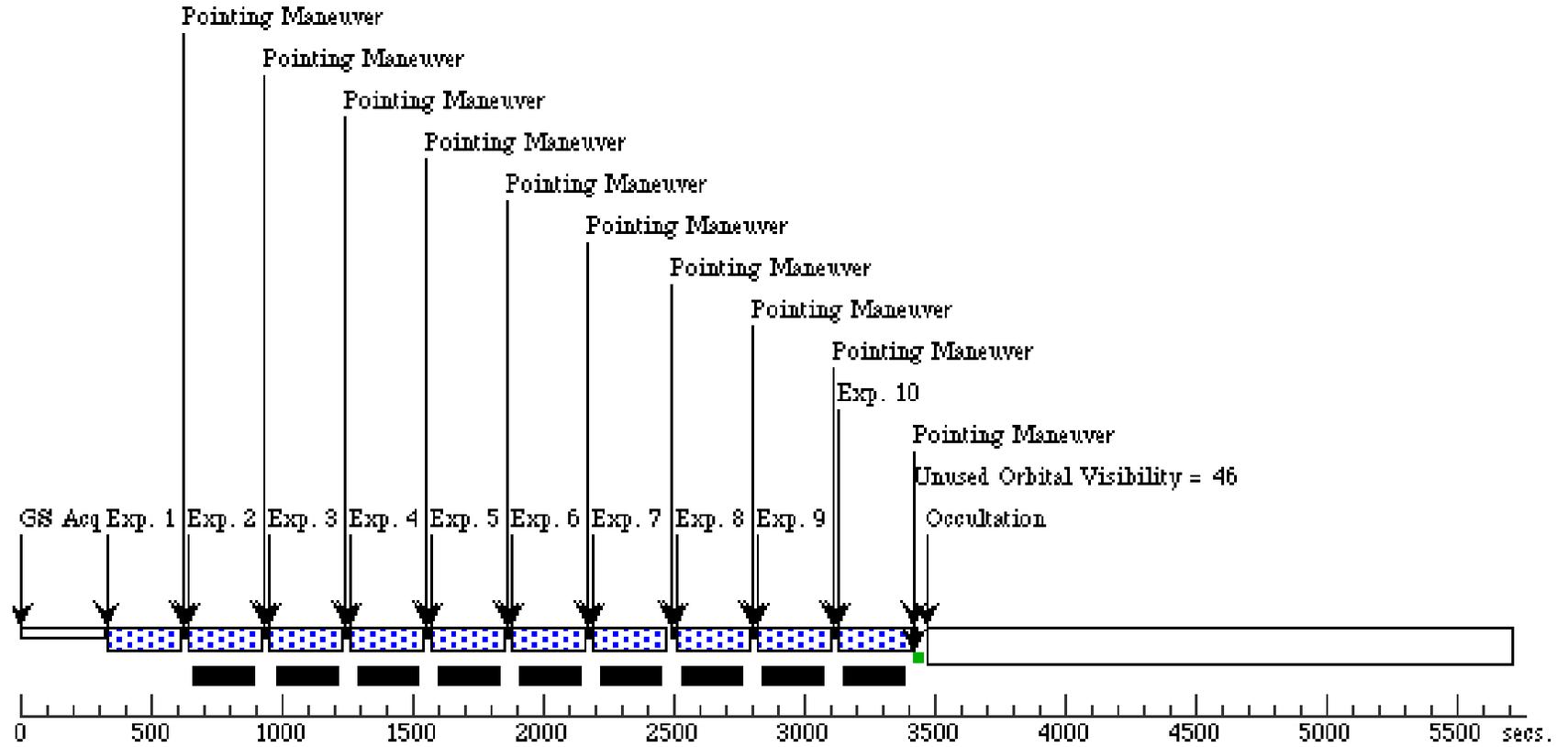
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F167N exp0 1	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0,0		249.23203 Secs (249.232 Secs)	[1]
	2	F167N exp0 2	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.15808 2,0.201825		249.23203 Secs (249.232 Secs)	[1]
	3	F167N exp0 3	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.2032 50,0.484400		249.23203 Secs (249.232 Secs)	[1]
	4	F167N exp0 4	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.4742 50 ,0.242200		249.23203 Secs (249.232 Secs)	[1]
	5	F167N exp0 5	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.6323 38 ,-0.0807374		249.23203 Secs (249.232 Secs)	[1]
	6	F167N exp0 6	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.7791 25,-0.635775		249.23203 Secs (249.232 Secs)	[1]
	7	F167N exp0 7	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -1.2195 0,-1.02935		249.23203 Secs (249.232 Secs)	[1]
	8	F167N exp0 8	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.0225 879 ,-0.565137		249.23203 Secs (249.232 Secs)	[1]
	9	F167N exp0 9	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.33875 0 ,-0.423850		249.23203 Secs (249.232 Secs)	[1]
	10	F167N exp1 0	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.54200 0 ,-0.242200		249.23203 Secs (249.232 Secs)	[1]
	11	F167N exp1 1	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.13550 00000000003,1.2715 55		249.23203 Secs (249.232 Secs)	[2]
	12	F167N exp1 2	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.91462 5 ,0.454125		249.23203 Secs (249.232 Secs)	[2]
	13	F167N exp1 3	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.03882 ,0.928425		249.23203 Secs (249.232 Secs)	[2]
	14	F167N exp1 4	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018		249.23203 Secs (249.232 Secs)	[2]
	15	F160W exp1 0	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 1.25337 ,1.12018		299.232481 Secs (299.232 Secs)	[2]
16	F160W exp2 0	(4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 0.93725 3,0.837649		299.232481 Secs (299.232 Secs)	[2]	

Proposal 13742 - Visit 04 - Kinematics of a Massive Star Cluster in Formation

17	F160W exp3 (4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2,0.555122	249.23203 Secs (249.232 Secs)	[==>]	[2]
18	F110W exp1 (4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2 ,0.555122	249.23203 Secs (249.232 Secs)	[==>]	[2]
19	F110W exp2 (4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.93725 3,0.837649	249.23203 Secs (249.232 Secs)	[==>]	[2]
20	F110W exp3 (4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018	249.23203 Secs (249.232 Secs)	[==>]	[2]
21	F110W exp short (4) BYF73D	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 1.25337 , 1.12018	43.984365 Secs (43.984 Secs)	[==>]	[2]

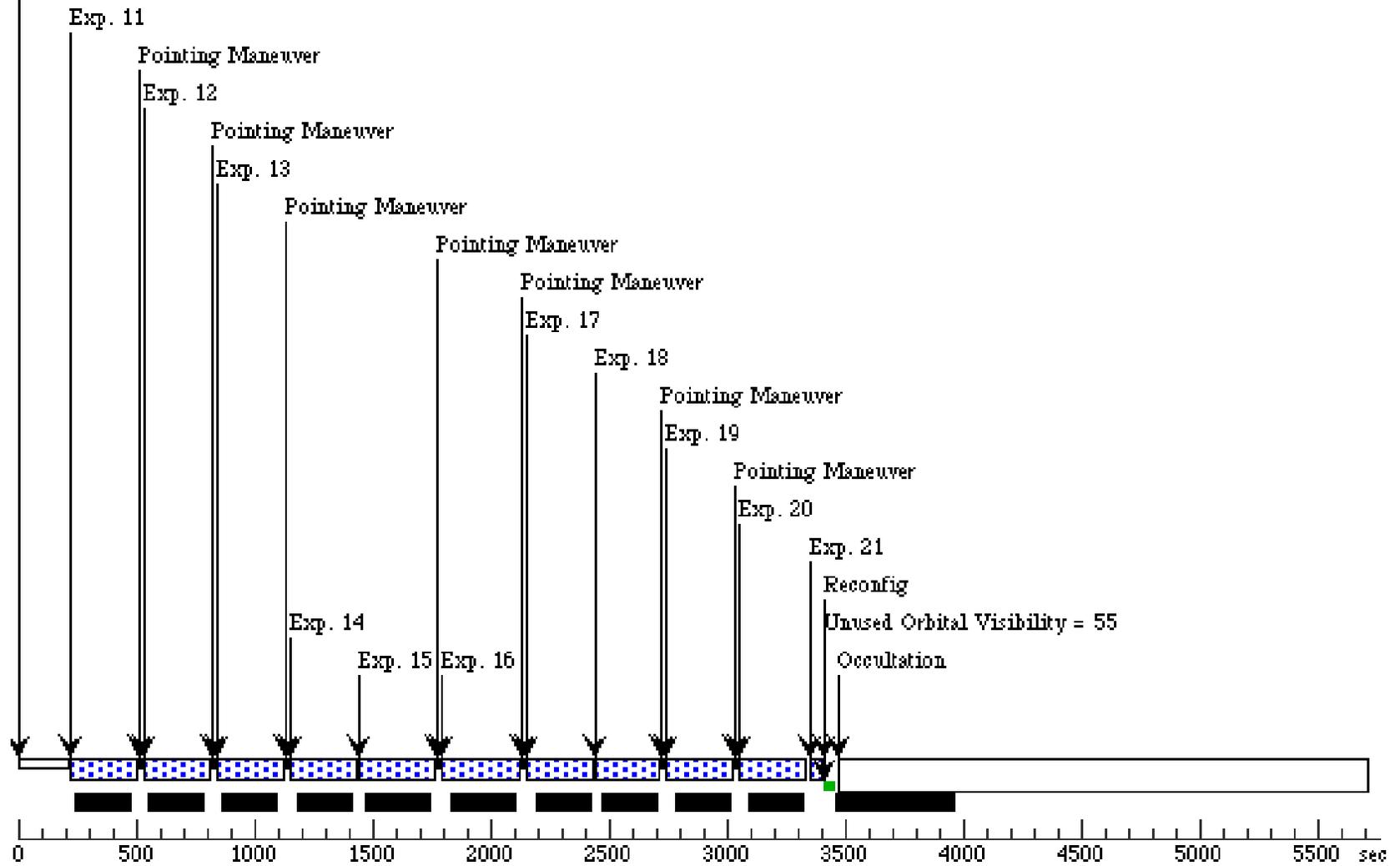
Orbit 1

Orbit Structure



Orbit 2

GS Reacq



Proposal 13742 - Visit 05 - Kinematics of a Massive Star Cluster in Formation

Visit	Proposal 13742, Visit 05, completed Thu Nov 20 02:06:30 GMT 2014 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01; BEFORE 01-MAR-2015:00:00:00 Comments: -					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(5)		BYF73E	RA: 10 38 33.1267 (159.6380279d) Dec: -58 19 22.24 (-58.32284d) Equinox: J2000		V=9.0+/-0.5	Reference Frame: ICRS

Proposal 13742 - Visit 05 - Kinematics of a Massive Star Cluster in Formation

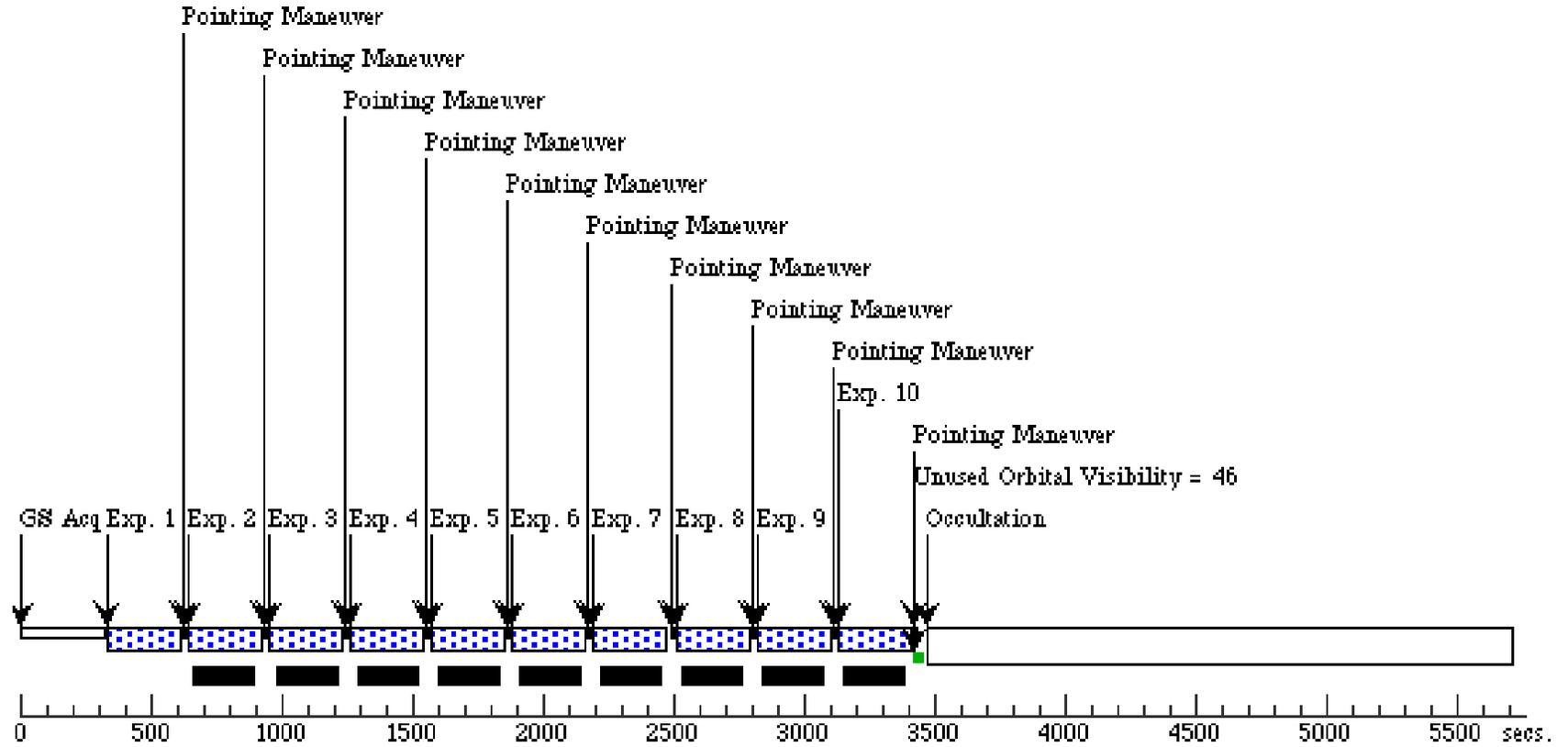
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F167N exp0 1	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0,0		249.23203 Secs (249.232 Secs)	[1]
	2	F167N exp0 2	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.15808 2,0.201825		249.23203 Secs (249.232 Secs)	[1]
	3	F167N exp0 3	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.2032 50,0.484400		249.23203 Secs (249.232 Secs)	[1]
	4	F167N exp0 4	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.4742 50 ,0.242200		249.23203 Secs (249.232 Secs)	[1]
	5	F167N exp0 5	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.6323 38 ,-0.0807374		249.23203 Secs (249.232 Secs)	[1]
	6	F167N exp0 6	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.7791 25,-0.635775		249.23203 Secs (249.232 Secs)	[1]
	7	F167N exp0 7	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -1.2195 0,-1.02935		249.23203 Secs (249.232 Secs)	[1]
	8	F167N exp0 8	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.0225 879 ,-0.565137		249.23203 Secs (249.232 Secs)	[1]
	9	F167N exp0 9	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.33875 0 ,-0.423850		249.23203 Secs (249.232 Secs)	[1]
	10	F167N exp1 0	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.54200 0 ,-0.242200		249.23203 Secs (249.232 Secs)	[1]
	11	F167N exp1 1	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.13550 00000000003,1.2715 55		249.23203 Secs (249.232 Secs)	[2]
	12	F167N exp1 2	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.91462 5 ,0.454125		249.23203 Secs (249.232 Secs)	[2]
	13	F167N exp1 3	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.03882 ,0.928425		249.23203 Secs (249.232 Secs)	[2]
	14	F167N exp1 4	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018		249.23203 Secs (249.232 Secs)	[2]
	15	F160W exp1 0	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 1.25337 ,1.12018		299.232481 Secs (299.232 Secs)	[2]
16	F160W exp2 0	(5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 0.93725 3,0.837649		299.232481 Secs (299.232 Secs)	[2]	

Proposal 13742 - Visit 05 - Kinematics of a Massive Star Cluster in Formation

17	F160W exp3 (5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2,0.555122	249.23203 Secs (249.232 Secs) [==>]	[2]
18	F110W exp1 (5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2 ,0.555122	249.23203 Secs (249.232 Secs) [==>]	[2]
19	F110W exp2 (5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.93725 3,0.837649	249.23203 Secs (249.232 Secs) [==>]	[2]
20	F110W exp3 (5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018	249.23203 Secs (249.232 Secs) [==>]	[2]
21	F110W exp short (5) BYF73E	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 1.25337 , 1.12018	43.984365 Secs (43.984 Secs) [==>]	[2]

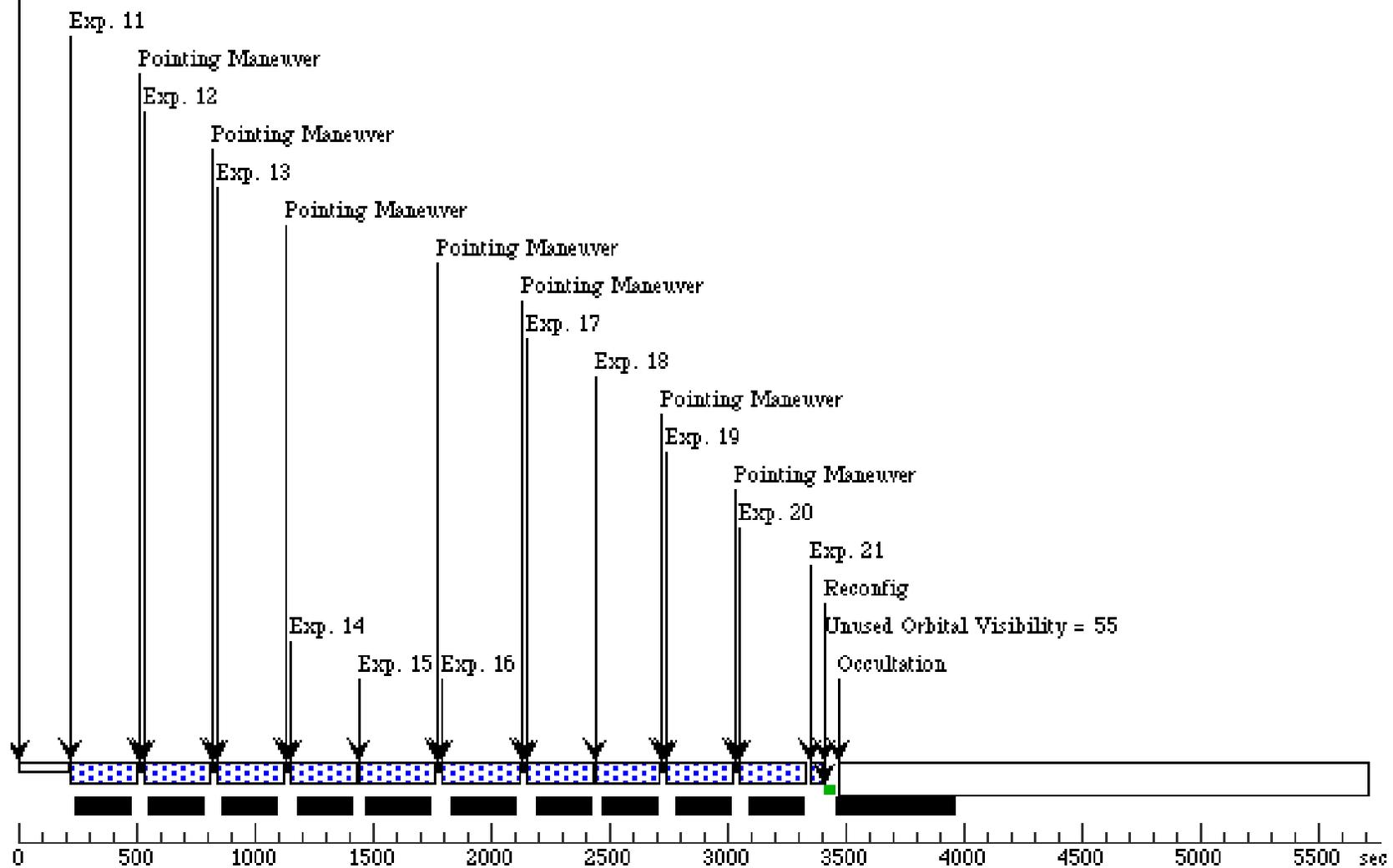
Orbit 1

Orbit Structure



Orbit 2

GS Reacq



Proposal 13742 - Visit 06 - Kinematics of a Massive Star Cluster in Formation

Thu Nov 20 02:06:31 GMT 2014

Visit	Proposal 13742, Visit 06, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01; BEFORE 01-MAR-2015:00:00:00 Comments: -					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	BYF73F	RA: 10 38 45.9311 (159.6913796d) Dec: -58 19 22.24 (-58.32284d) Equinox: J2000		V=9.0+/-0.5	Reference Frame: ICRS

Proposal 13742 - Visit 06 - Kinematics of a Massive Star Cluster in Formation

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F167N exp0 1	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0,0		249.23203 Secs (249.232 Secs)	[1]
	2	F167N exp0 2	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.15808 2,0.201825		249.23203 Secs (249.232 Secs)	[1]
	3	F167N exp0 3	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.2032 50,0.484400		249.23203 Secs (249.232 Secs)	[1]
	4	F167N exp0 4	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.4742 50 ,0.242200		249.23203 Secs (249.232 Secs)	[1]
	5	F167N exp0 5	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.6323 38 ,-0.0807374		249.23203 Secs (249.232 Secs)	[1]
	6	F167N exp0 6	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.7791 25,-0.635775		249.23203 Secs (249.232 Secs)	[1]
	7	F167N exp0 7	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -1.2195 0,-1.02935		249.23203 Secs (249.232 Secs)	[1]
	8	F167N exp0 8	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.0225 879 ,-0.565137		249.23203 Secs (249.232 Secs)	[1]
	9	F167N exp0 9	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.33875 0 ,-0.423850		249.23203 Secs (249.232 Secs)	[1]
	10	F167N exp1 0	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.54200 0 ,-0.242200		249.23203 Secs (249.232 Secs)	[1]
	11	F167N exp1 1	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.13550 00000000003,1.2715 55		249.23203 Secs (249.232 Secs)	[2]
	12	F167N exp1 2	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.91462 5 ,0.454125		249.23203 Secs (249.232 Secs)	[2]
	13	F167N exp1 3	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.03882 ,0.928425		249.23203 Secs (249.232 Secs)	[2]
	14	F167N exp1 4	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018		249.23203 Secs (249.232 Secs)	[2]
	15	F160W exp1 0	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 1.25337 ,1.12018		299.232481 Secs (299.232 Secs)	[2]
	16	F160W exp2 0	(6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 0.93725 3,0.837649		299.232481 Secs (299.232 Secs)	[2]

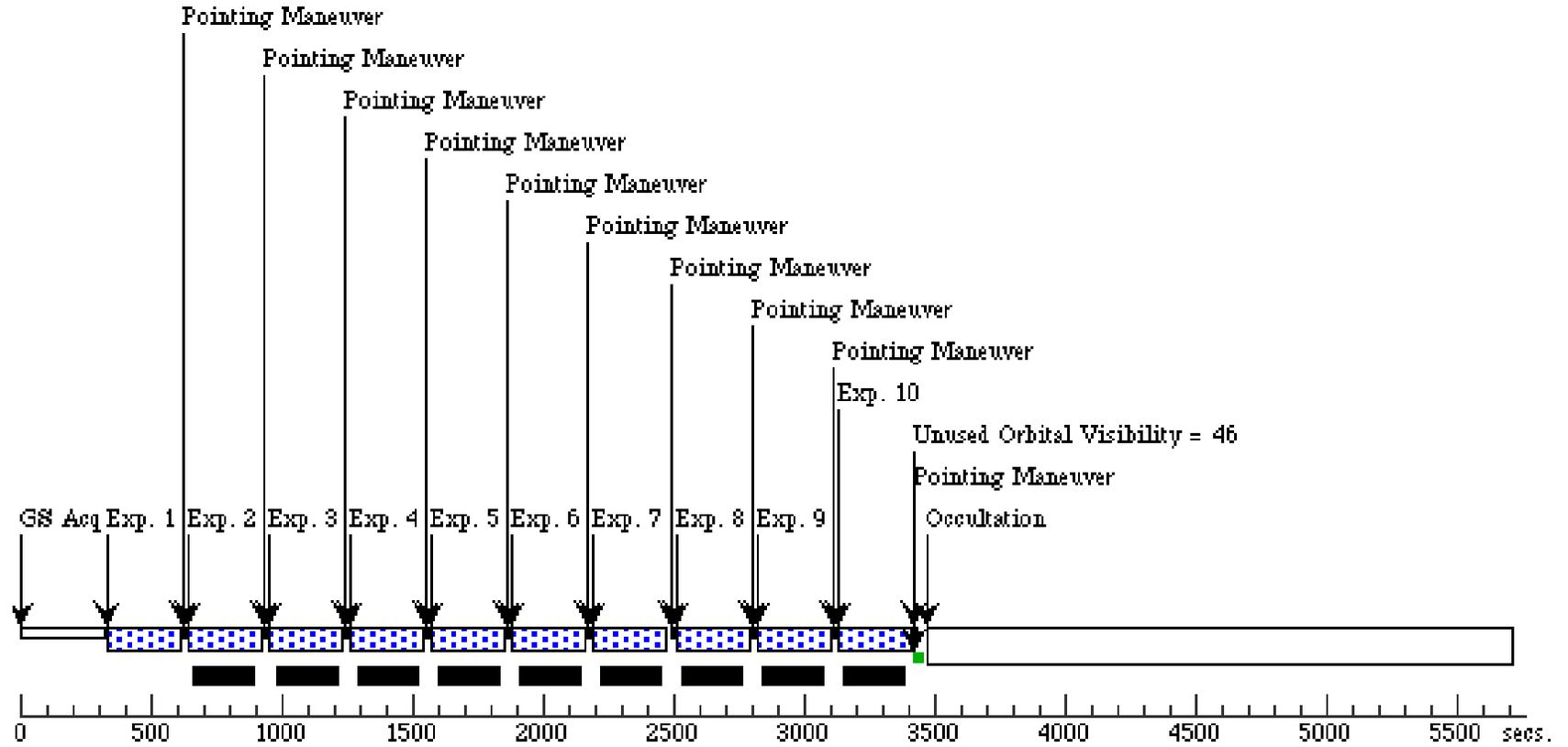
Proposal 13742 - Visit 06 - Kinematics of a Massive Star Cluster in Formation

17	F160W exp3 (6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2,0.555122	249.23203 Secs (249.232 Secs) [==>]	[2]
18	F110W exp1 (6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2 ,0.555122	249.23203 Secs (249.232 Secs) [==>]	[2]
19	F110W exp2 (6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.93725 3,0.837649	249.23203 Secs (249.232 Secs) [==>]	[2]
20	F110W exp3 (6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018	249.23203 Secs (249.232 Secs) [==>]	[2]
21	F110W exp short (6) BYF73F	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 1.25337 , 1.12018	43.984365 Secs (43.984 Secs) [==>]	[2]

Orbit 1

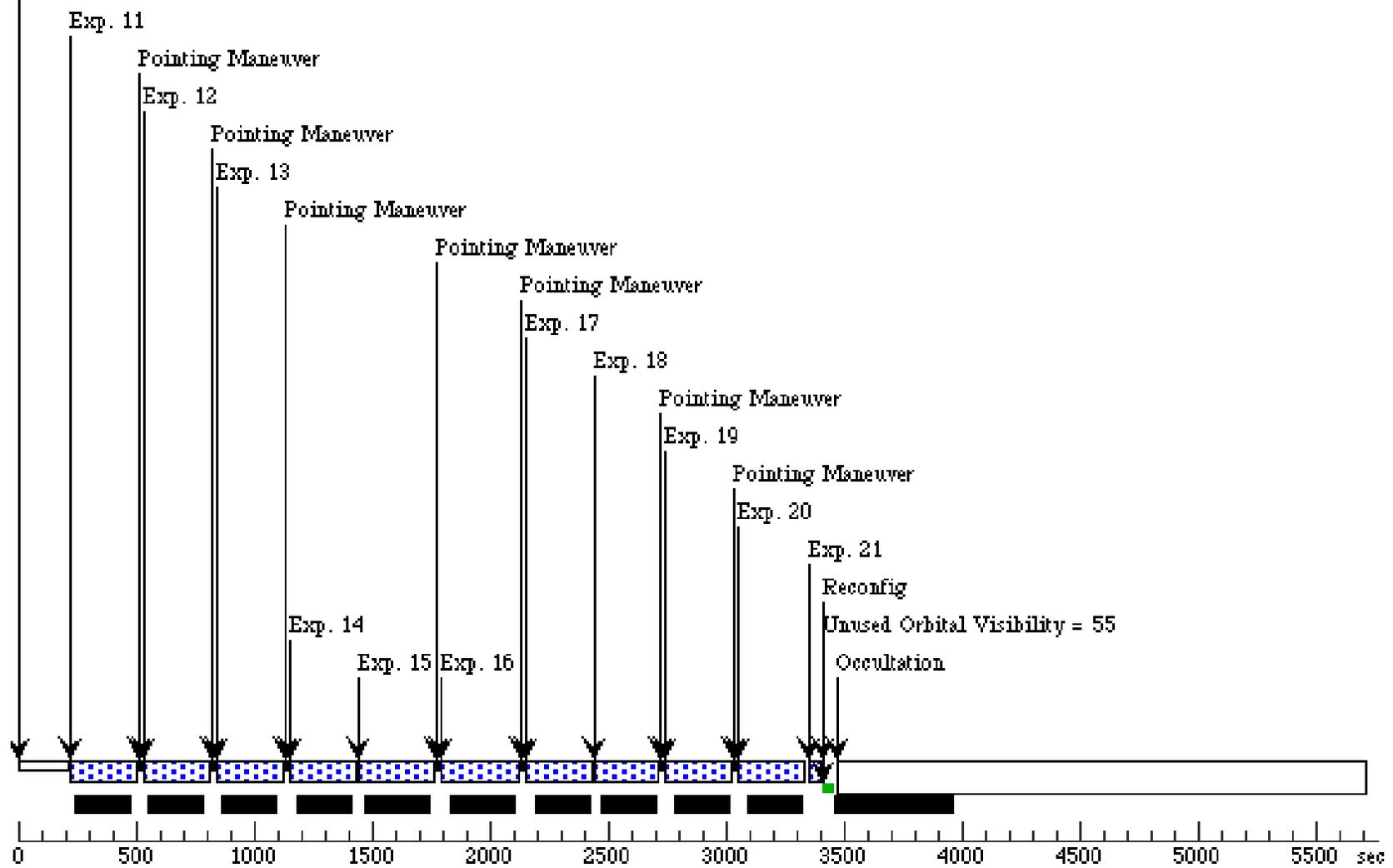
Server Version: 20140605

Orbit Structure



Orbit 2

GS Reacq



Proposal 13742 - Visit 07 - Kinematics of a Massive Star Cluster in Formation

Visit	Proposal 13742, Visit 07, completed Thu Nov 20 02:06:31 GMT 2014 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01; BEFORE 01-MAR-2015:00:00:00 Comments: -					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(7)		BYF73G	RA: 10 38 20.3223 (159.5846762d) Dec: -58 21 13.76 (-58.35382d) Equinox: J2000		V=9.0+/-0.5	Reference Frame: ICRS

Proposal 13742 - Visit 07 - Kinematics of a Massive Star Cluster in Formation

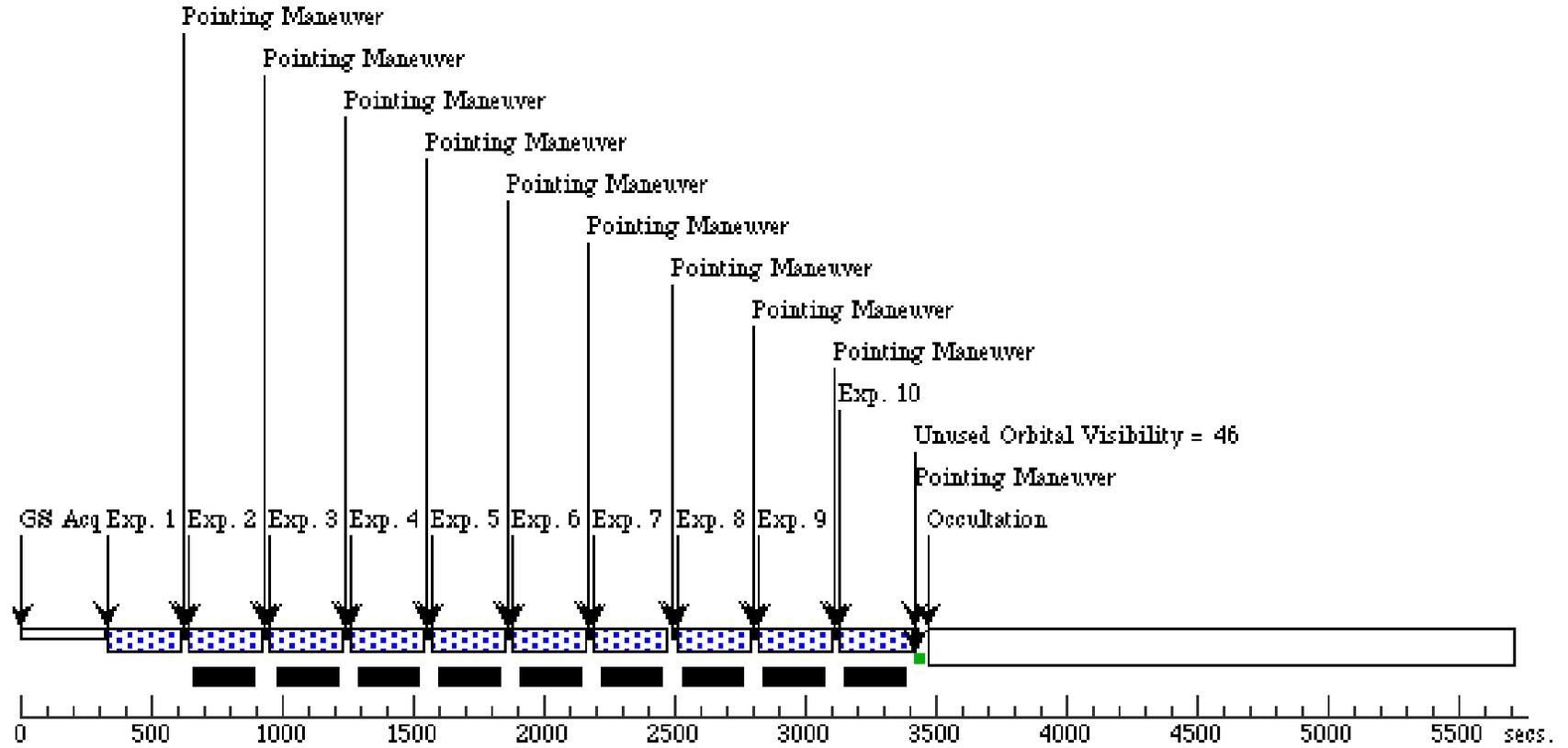
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F167N exp0 1	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0,0		249.23203 Secs (249.232 Secs)	[1]
	2	F167N exp0 2	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.15808 2,0.201825		249.23203 Secs (249.232 Secs)	[1]
	3	F167N exp0 3	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.2032 50,0.484400		249.23203 Secs (249.232 Secs)	[1]
	4	F167N exp0 4	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.4742 50 ,0.242200		249.23203 Secs (249.232 Secs)	[1]
	5	F167N exp0 5	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.6323 38 ,-0.0807374		249.23203 Secs (249.232 Secs)	[1]
	6	F167N exp0 6	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.7791 25,-0.635775		249.23203 Secs (249.232 Secs)	[1]
	7	F167N exp0 7	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -1.2195 0,-1.02935		249.23203 Secs (249.232 Secs)	[1]
	8	F167N exp0 8	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.0225 879 ,-0.565137		249.23203 Secs (249.232 Secs)	[1]
	9	F167N exp0 9	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.33875 0 ,-0.423850		249.23203 Secs (249.232 Secs)	[1]
	10	F167N exp1 0	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.54200 0 ,-0.242200		249.23203 Secs (249.232 Secs)	[1]
	11	F167N exp1 1	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.13550 00000000003,1.2715 55		249.23203 Secs (249.232 Secs)	[2]
	12	F167N exp1 2	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.91462 5 ,0.454125		249.23203 Secs (249.232 Secs)	[2]
	13	F167N exp1 3	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.03882 ,0.928425		249.23203 Secs (249.232 Secs)	[2]
	14	F167N exp1 4	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018		249.23203 Secs (249.232 Secs)	[2]
	15	F160W exp1 0	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 1.25337 ,1.12018		299.232481 Secs (299.232 Secs)	[2]
	16	F160W exp2 0	(7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 0.93725 3,0.837649		299.232481 Secs (299.232 Secs)	[2]

Proposal 13742 - Visit 07 - Kinematics of a Massive Star Cluster in Formation

17	F160W exp3 (7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2,0.555122	249.23203 Secs (249.232 Secs) [==>]	[2]
18	F110W exp1 (7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2 ,0.555122	249.23203 Secs (249.232 Secs) [==>]	[2]
19	F110W exp2 (7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.93725 3,0.837649	249.23203 Secs (249.232 Secs) [==>]	[2]
20	F110W exp3 (7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018	249.23203 Secs (249.232 Secs) [==>]	[2]
21	F110W exp short (7) BYF73G	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 1.25337 , 1.12018	43.984365 Secs (43.984 Secs) [==>]	[2]

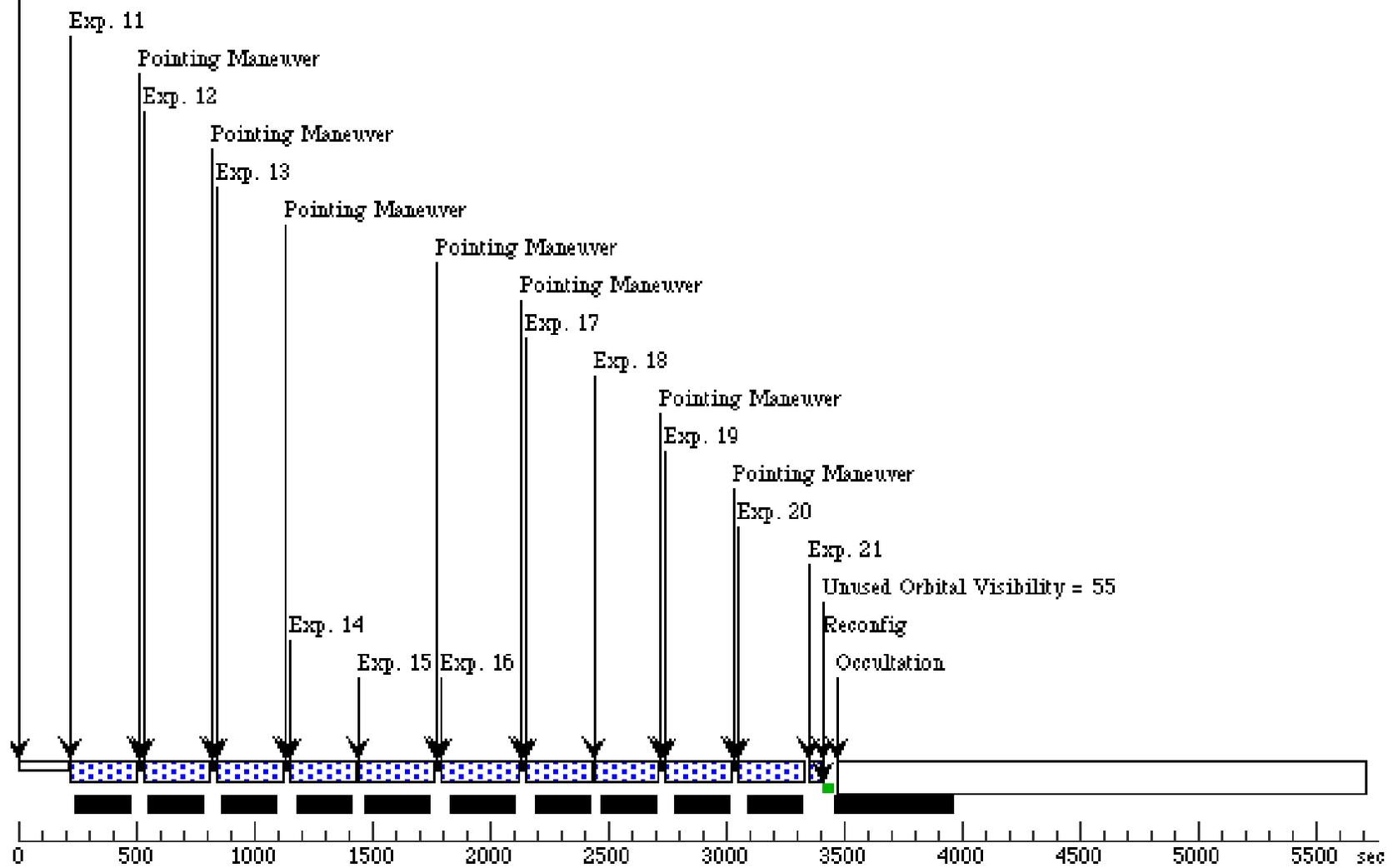
Orbit 1

Orbit Structure



Orbit 2

GS Reacq



Proposal 13742 - Visit 08 - Kinematics of a Massive Star Cluster in Formation

Visit	Proposal 13742, Visit 08, completed Thu Nov 20 02:06:31 GMT 2014 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01; BEFORE 01-MAR-2015:00:00:00 Comments: -					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(8)		BYF73H	RA: 10 38 33.1267 (159.6380279d) Dec: -58 21 13.76 (-58.35382d) Equinox: J2000		V=9.0+/-0.5	Reference Frame: ICRS

Proposal 13742 - Visit 08 - Kinematics of a Massive Star Cluster in Formation

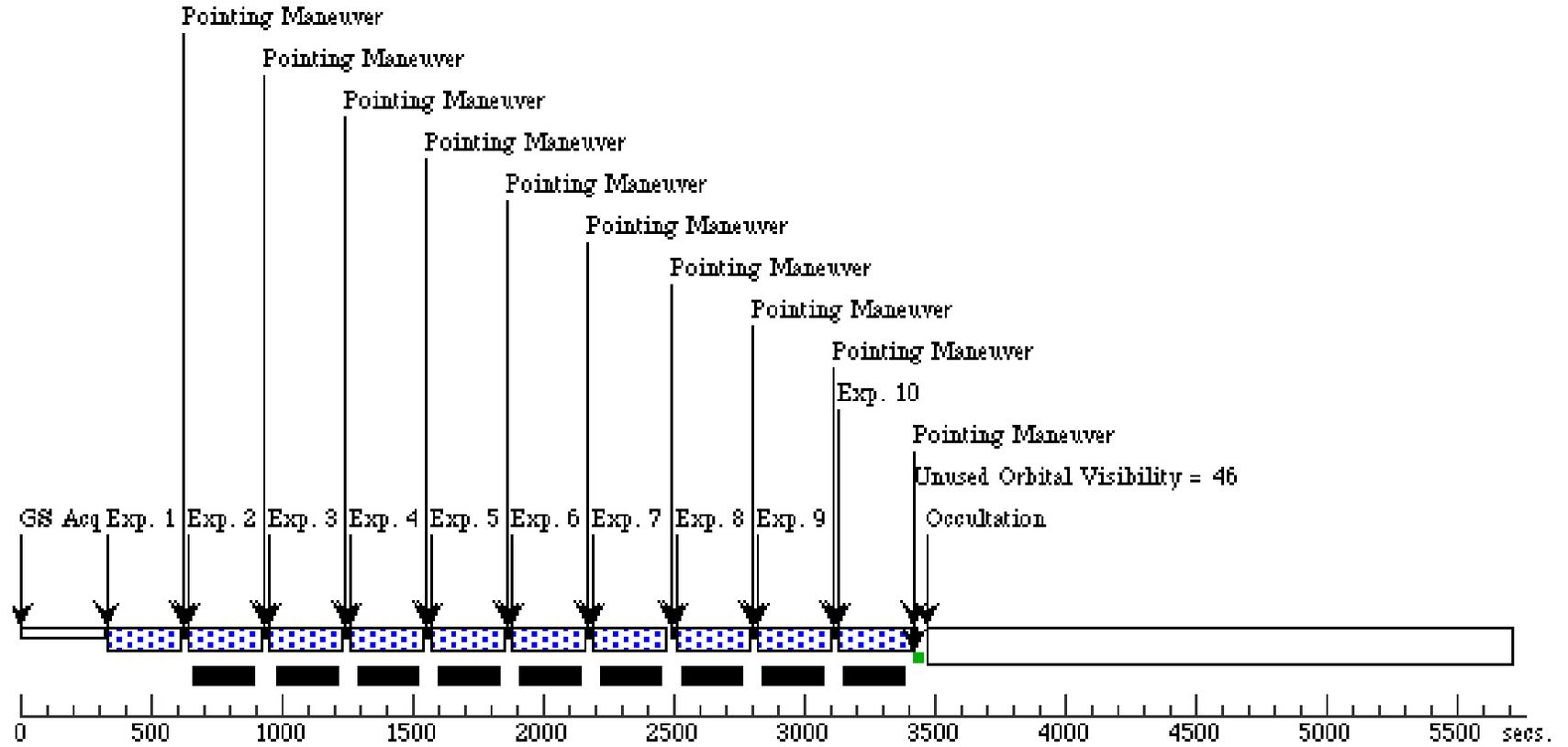
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F167N exp0 1	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0,0		249.23203 Secs (249.232 Secs)	[1]
	2	F167N exp0 2	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.15808 2,0.201825		249.23203 Secs (249.232 Secs)	[1]
	3	F167N exp0 3	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.2032 50,0.484400		249.23203 Secs (249.232 Secs)	[1]
	4	F167N exp0 4	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.4742 50 ,0.242200		249.23203 Secs (249.232 Secs)	[1]
	5	F167N exp0 5	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.6323 38 ,-0.0807374		249.23203 Secs (249.232 Secs)	[1]
	6	F167N exp0 6	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.7791 25,-0.635775		249.23203 Secs (249.232 Secs)	[1]
	7	F167N exp0 7	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -1.2195 0,-1.02935		249.23203 Secs (249.232 Secs)	[1]
	8	F167N exp0 8	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.0225 879 ,-0.565137		249.23203 Secs (249.232 Secs)	[1]
	9	F167N exp0 9	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.33875 0 ,-0.423850		249.23203 Secs (249.232 Secs)	[1]
	10	F167N exp1 0	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.54200 0 ,-0.242200		249.23203 Secs (249.232 Secs)	[1]
	11	F167N exp1 1	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.13550 00000000003,1.2715 55		249.23203 Secs (249.232 Secs)	[2]
	12	F167N exp1 2	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.91462 5 ,0.454125		249.23203 Secs (249.232 Secs)	[2]
	13	F167N exp1 3	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.03882 ,0.928425		249.23203 Secs (249.232 Secs)	[2]
	14	F167N exp1 4	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018		249.23203 Secs (249.232 Secs)	[2]
	15	F160W exp1 0	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 1.25337 ,1.12018		299.232481 Secs (299.232 Secs)	[2]
16	F160W exp2 0	(8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 0.93725 3,0.837649		299.232481 Secs (299.232 Secs)	[2]	

Proposal 13742 - Visit 08 - Kinematics of a Massive Star Cluster in Formation

17	F160W exp3 (8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2,0.555122	249.23203 Secs (249.232 Secs)	[==>]	[2]
18	F110W exp1 (8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2 ,0.555122	249.23203 Secs (249.232 Secs)	[==>]	[2]
19	F110W exp2 (8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.93725 3,0.837649	249.23203 Secs (249.232 Secs)	[==>]	[2]
20	F110W exp3 (8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018	249.23203 Secs (249.232 Secs)	[==>]	[2]
21	F110W exp short (8) BYF73H	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 1.25337 , 1.12018	43.984365 Secs (43.984 Secs)	[==>]	[2]

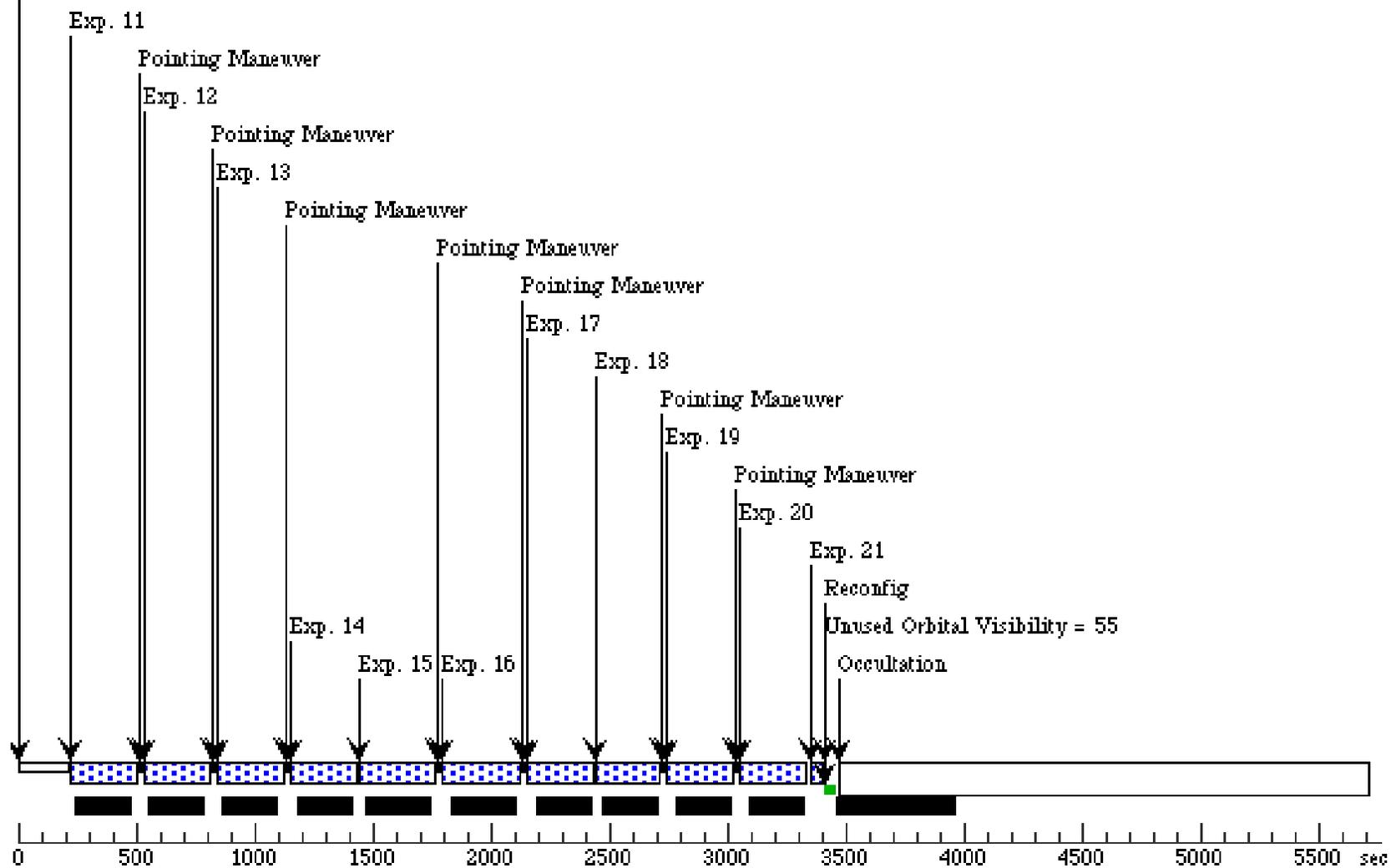
Orbit 1

Orbit Structure



Orbit 2

GS Reacq



Proposal 13742 - Visit 09 - Kinematics of a Massive Star Cluster in Formation

Thu Nov 20 02:06:31 GMT 2014

Visit	Proposal 13742, Visit 09, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01; BEFORE 01-MAR-2015:00:00:00 Comments: -					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(9)	BYF73I	RA: 10 38 45.9311 (159.6913796d) Dec: -58 21 13.76 (-58.35382d) Equinox: J2000		V=9.0+/-0.5	Reference Frame: ICRS

Proposal 13742 - Visit 09 - Kinematics of a Massive Star Cluster in Formation

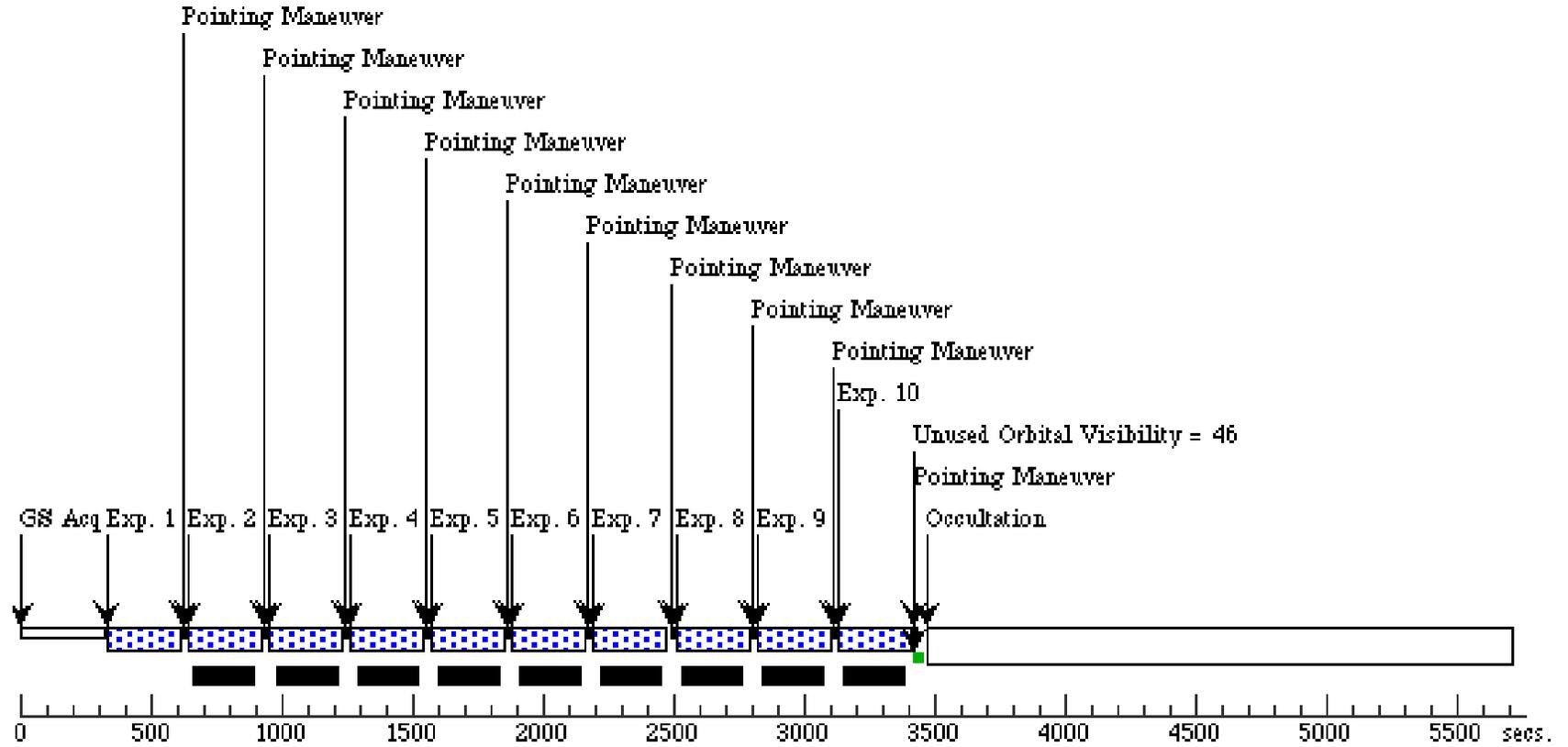
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F167N exp0 1	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0,0		249.23203 Secs (249.232 Secs)	[1]
	2	F167N exp0 2	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.15808 2,0.201825		249.23203 Secs (249.232 Secs)	[1]
	3	F167N exp0 3	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.2032 50,0.484400		249.23203 Secs (249.232 Secs)	[1]
	4	F167N exp0 4	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.4742 50 ,0.242200		249.23203 Secs (249.232 Secs)	[1]
	5	F167N exp0 5	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.6323 38 ,-0.0807374		249.23203 Secs (249.232 Secs)	[1]
	6	F167N exp0 6	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.7791 25,-0.635775		249.23203 Secs (249.232 Secs)	[1]
	7	F167N exp0 7	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -1.2195 0,-1.02935		249.23203 Secs (249.232 Secs)	[1]
	8	F167N exp0 8	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG -0.0225 879 ,-0.565137		249.23203 Secs (249.232 Secs)	[1]
	9	F167N exp0 9	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.33875 0 ,-0.423850		249.23203 Secs (249.232 Secs)	[1]
	10	F167N exp1 0	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.54200 0 ,-0.242200		249.23203 Secs (249.232 Secs)	[1]
	11	F167N exp1 1	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.13550 00000000003,1.2715 55		249.23203 Secs (249.232 Secs)	[2]
	12	F167N exp1 2	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.91462 5 ,0.454125		249.23203 Secs (249.232 Secs)	[2]
	13	F167N exp1 3	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.03882 ,0.928425		249.23203 Secs (249.232 Secs)	[2]
	14	F167N exp1 4	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F167N	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018		249.23203 Secs (249.232 Secs)	[2]
	15	F160W exp1 0	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 1.25337 ,1.12018		299.232481 Secs (299.232 Secs)	[2]
	16	F160W exp2 0	(9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=11	POS TARG 0.93725 3,0.837649		299.232481 Secs (299.232 Secs)	[2]

Proposal 13742 - Visit 09 - Kinematics of a Massive Star Cluster in Formation

17	F160W exp3 (9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2,0.555122	249.23203 Secs (249.232 Secs) [==>]	[2]
18	F110W exp1 (9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.62113 2 ,0.555122	249.23203 Secs (249.232 Secs) [==>]	[2]
19	F110W exp2 (9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 0.93725 3,0.837649	249.23203 Secs (249.232 Secs) [==>]	[2]
20	F110W exp3 (9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=STEP5 0; NSAMP=10	POS TARG 1.25337 ,1.12018	249.23203 Secs (249.232 Secs) [==>]	[2]
21	F110W exp short (9) BYF73I	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=RAPID ; NSAMP=15	POS TARG 1.25337 , 1.12018	43.984365 Secs (43.984 Secs) [==>]	[2]

Orbit 1

Orbit Structure



Orbit 2

GS Reacq

