



11123 - A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster

Cycle: 16, 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) RCW38-1	NIC2	1	17-Jan-2008 21:31:26.0	yes
02	(1) RCW38-1	NIC2	1	17-Jan-2008 21:31:42.0	yes
03	(2) RCW38-2	NIC2	1	17-Jan-2008 21:31:51.0	yes
04	(2) RCW38-2	NIC2	1	17-Jan-2008 21:31:59.0	yes
05	(2) RCW38-2	NIC2	1	17-Jan-2008 21:32:09.0	yes
06	(2) RCW38-2	NIC2	1	17-Jan-2008 21:32:16.0	yes
07	(2) RCW38-2	NIC2	1	17-Jan-2008 21:32:24.0	yes
08	(2) RCW38-2	NIC2	1	17-Jan-2008 21:32:31.0	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>
09	(2) RCW38-2	NIC2	1	17-Jan-2008 21:32:41.0	yes
10	(2) RCW38-2	NIC2	1	17-Jan-2008 21:32:48.0	yes

10 Total Orbits Used

ABSTRACT

We propose a search for line emission from photoevaporating protoplanetary disks in the Massive Embedded Cluster RCW 38. These disks would be analogous to the "proplyds" discovered in the Orion Nebula: disks around young low mass stars which are being photoionized by a nearby O star. We will search for these disks in RCW 38 using narrowband imaging in the lines of Paschen alpha and molecular hydrogen (1-0) S(1) with NICMOS. The RCW 38 region is an excellent target for determining whether proplyds are observable in large numbers outside of Orion. It is a young embedded cluster hosting a few hundred low mass young stars with a large percentage showing infrared excess indicating the presence of disks. About 100 of these stars are found within 0.1 pc of the central O5 star, and the cluster is located within a cleared cavity 0.2 pc in size, embedded within a molecular cloud, exposing the cluster members directly to the UV radiation from the O star. Unlike Orion, but like many other young clusters, RCW 38 is not seen in visible light, and infrared imaging is needed. The best line in the infrared for revealing proplyds is the Paschen alpha line, which is not detectable from the ground. Only HST is able to perform these observations. From these observations we will estimate the lifetime of the evaporating disks, and ascertain whether these disks will survive long enough to form planets.

OBSERVING DESCRIPTION

The region around the central O5 star (RCW 38 IRS 2) containing most of the cluster members will be imaged with NIC2 with a 3 x 2 mosaic in the Pa-alpha line (F187N) and its narrowband continuum (F190N), and with a 2 x 2 mosaic in the H₂ (1-0) S(1) line (F212N) and its narrowband continuum (F215N). With offsets of 17.5" between frames the field-of-view of the final images will be 51.6" x 35.4" (F187N and F190N) and 35.4" (F212N and F215N).

We estimate the sensitivity required for the Pa-alpha observations using the published fluxes of the Orion disks (Churchwell et al. 1987) and estimating the flux of equivalent sources at the distance (1.7 kpc) and extinction ($A_V \sim 10$) of RCW38. The resulting flux for a typical proplyd is $\sim 3.8 \times 10^{-4}$ Jy in Pa-alpha. The 3 x 2 mosaic will be imaged with one mosaic per orbit (55 minutes/orbit, and two filters), with an integration time of 300 seconds per mosaic position per filter, resulting in a sensitivity of S/N ~ 50 for compact sources. We will integrate in both filters before moving to the next position to minimize drift between the Pa-alpha frames and the continuum frames. This will minimize artifacts due to interpixel gain variations in the NICMOS detectors when subtracting the continuum from the line data. Two orbits are required for the observations.

In a similar manner we estimate the flux of a typical proplyd to be $\sim 2 \times 10^{-5}$ Jy in H₂ (Chen et al. 1998). Because it is much fainter than Pa-alpha a longer integration time is required. Hence we

restrict ourselves to imaging the inner region with a 2 x 2 mosaic.

In order to achieve a S/N ~ 16 a total integration time per mosaic position of 35 minutes is required, or 4 orbits per filter (F212N and its continuum filter F215N).

All observations will use the MULTIACCUM readout mode. The 3x2 mosaic has orientation restrictions, but not the 2x2 mosaic. The change in relative orientation between orbits using the same filters need to be small, so that the mosaics can be built.

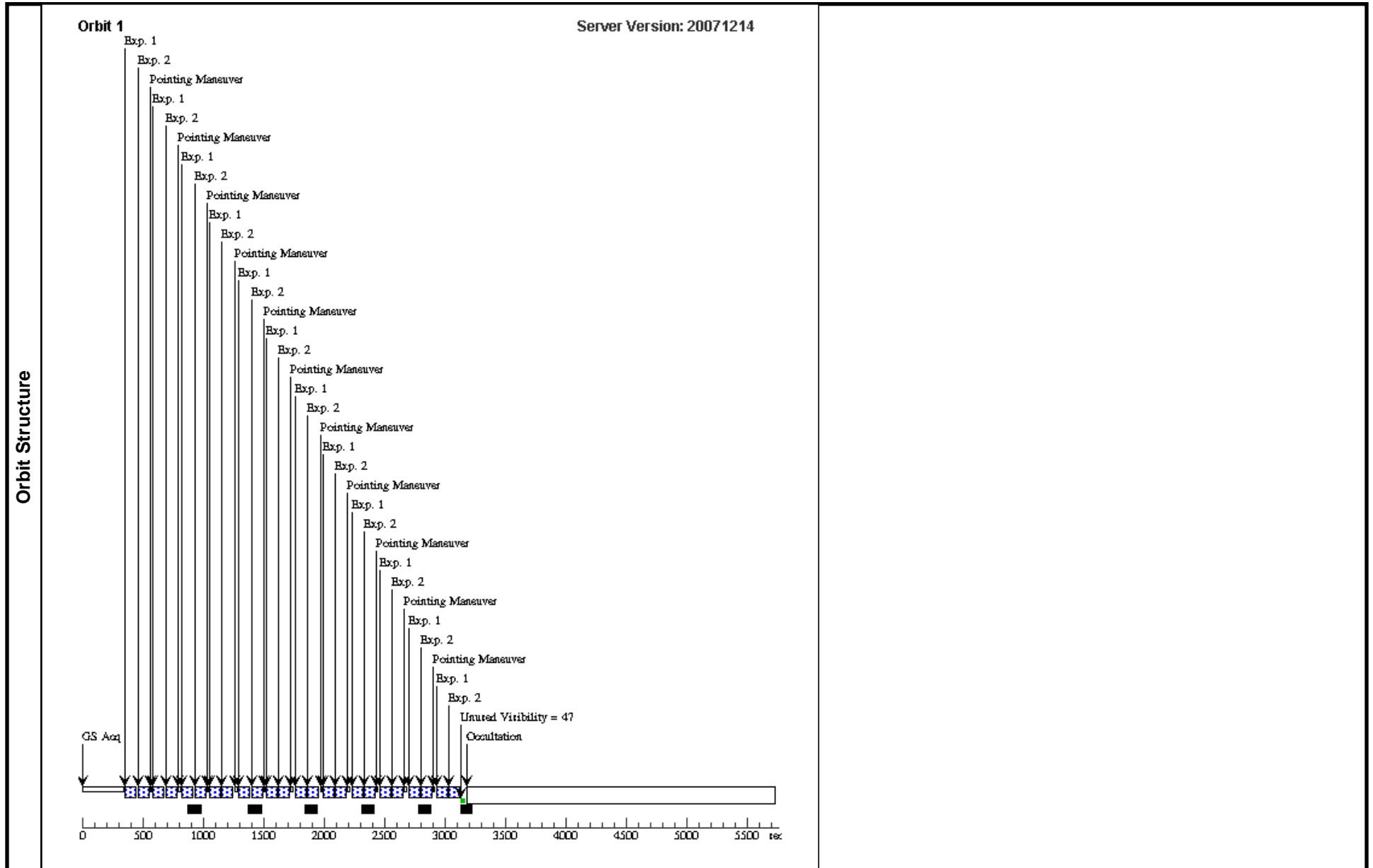
Proposal 11123 - Visit 01 - A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster

Fri Jan 18 02:32:52 GMT 2008

Visit	Proposal 11123, Visit 01 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: ORIENT 295.0D TO 335.0 D; ORIENT 25.0D TO 65.0 D; ORIENT 115.0D TO 155.0 D; ORIENT 205.0D TO 245.0 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=NIC-SPIRAL-MAP Purpose=MOSAIC Number Of Points=6 Point Spacing=16.0 Line Spacing=	Coordinate Frame=CELESTIAL Pattern Orientation=270.0 Angle Between Sides= Center Pattern=false	Pattern Type=NIC-XSTRIP-DITH Purpose=DITHER Number Of Points=2 Point Spacing=2.0 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false	(1-2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	RCW38-1	RA: 08 59 5.2090 (134.7717042d) Dec: -47 30 50.93 (-47.51415d) Equinox: J2000		V=? m_K = 6.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	C-F187N	(1) RCW38-1	NIC2, MULTIACCUM, NIC2	F187N	SAMP-SEQ=STEP8 ; NSAMP=15	POS TARG -1.575,- 2.4	Pattern 1-2 (1)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)] [==>(Pattern 5,1)] [==>(Pattern 5,2)] [==>(Pattern 6,1)] [==>(Pattern 6,2)]	[1]

Proposal 11123 - Visit 01 - A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		2	C-F190N	(1) RCW38-1	NIC2, MULTIACCUM, NIC2	F190N	SAMP-SEQ=STEP8 ; NSAMP=15	POS TARG -1.575,- 2.4	Pattern 1-2 (1)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)] [==>(Pattern 5,1)] [==>(Pattern 5,2)] [==>(Pattern 6,1)] [==>(Pattern 6,2)]



Proposal 11123 - Visit 02 - A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster

Fri Jan 18 02:32:54 GMT 2008

Visit	Proposal 11123, Visit 02 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: SAME ORIENT AS 01; AFTER 01									
	Patterns	#	Primary Pattern				Secondary Pattern			
		(1)	Pattern Type=NIC-SPIRAL-MAP Purpose=MOSAIC Number Of Points=6 Point Spacing=16.0 Line Spacing=	Coordinate Frame=CELESTIAL Pattern Orientation=270.0 Angle Between Sides= Center Pattern=false	Pattern Type=NIC-XSTRIP-DITH Purpose=DITHER Number Of Points=2 Point Spacing=2.0 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false	(1-2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	RCW38-1	RA: 08 59 5.2090 (134.7717042d) Dec: -47 30 50.93 (-47.51415d) Equinox: J2000		V=(?) m_K = 6.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	C-F187N	(1) RCW38-1	NIC2, MULTIACCUM, NIC2	F187N	SAMP-SEQ=STEP8 ; NSAMP=15	POS TARG -1.575,- 2.4	Pattern 1-2 (1)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)] [==>(Pattern 5,1)] [==>(Pattern 5,2)] [==>(Pattern 6,1)] [==>(Pattern 6,2)]	[1]

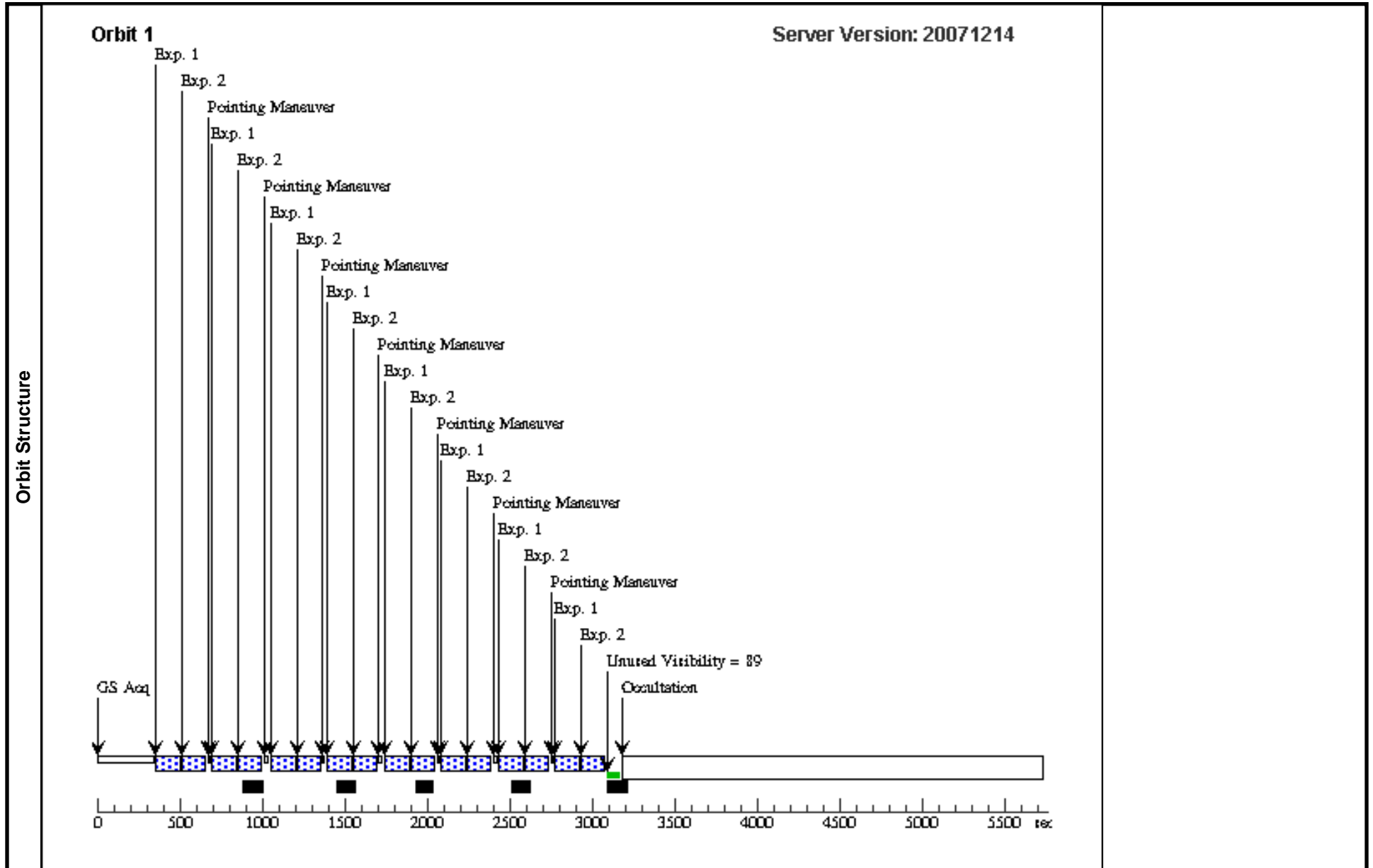
Proposal 11123 - Visit 02 - A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		2	C-F190N	(1) RCW38-1	NIC2, MULTIACCUM, NIC2	F190N	SAMP-SEQ=STEP8 ; NSAMP=15	POS TARG -1.575,- 2.4	Pattern 1-2 (1)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)] [==>(Pattern 5,1)] [==>(Pattern 5,2)] [==>(Pattern 6,1)] [==>(Pattern 6,2)]

Proposal 11123 - Visit 03 - A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster

Fri Jan 18 02:32:54 GMT 2008

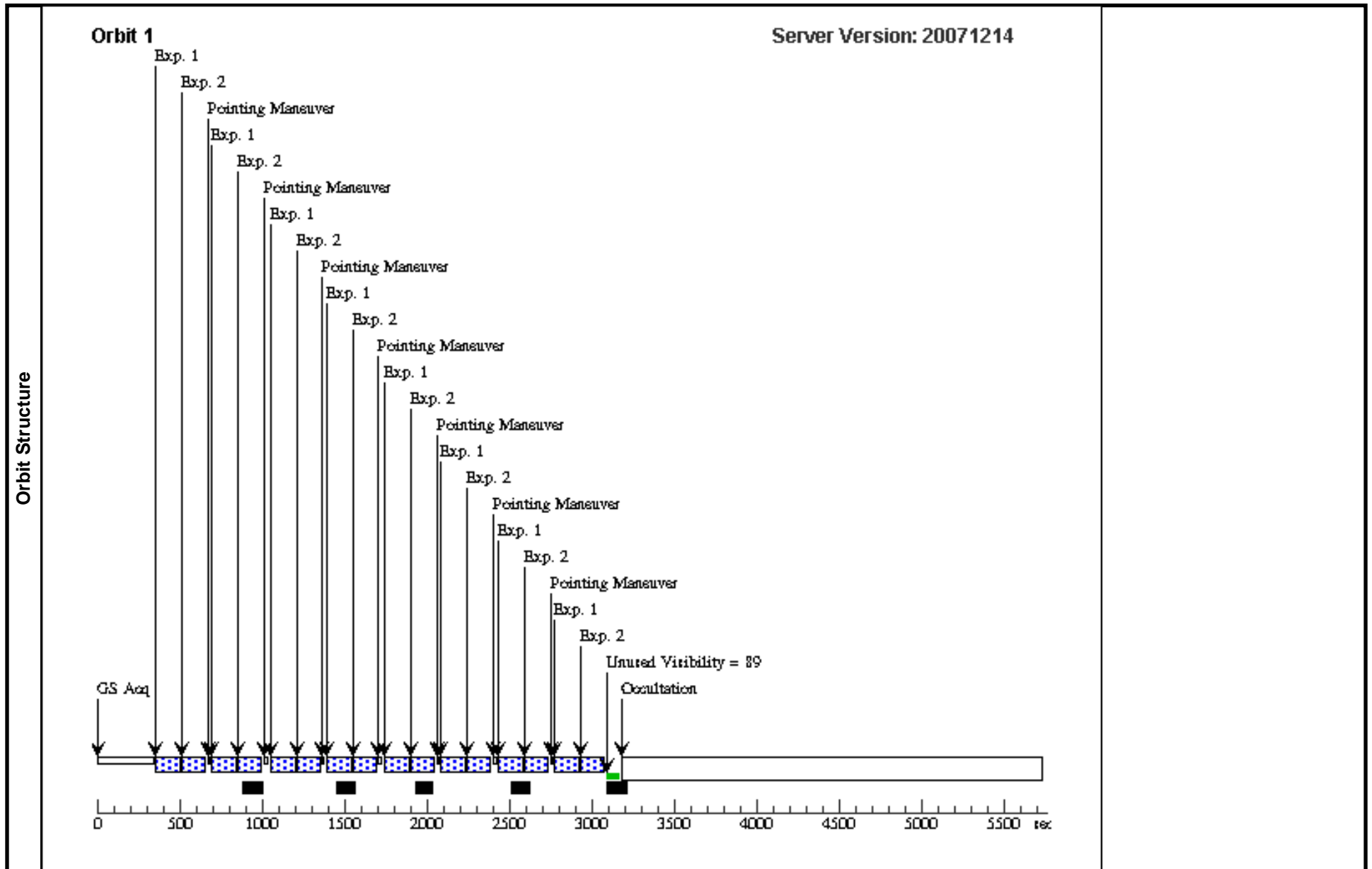
Visit	Proposal 11123, Visit 03 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: ORIENT 115.0D TO 155.0 D; ORIENT 205.0D TO 245.0 D; ORIENT 295.0D TO 335.0 D; ORIENT 25.0D TO 65.0 D									
	Patterns	#	Primary Pattern				Secondary Pattern			
		(2)	Pattern Type=NIC-SPIRAL-MAP Purpose=MOSAIC Number Of Points=4 Point Spacing=16.0 Line Spacing=	Coordinate Frame=CELESTIAL Pattern Orientation=270.0 Angle Between Sides= Center Pattern=false	Pattern Type=NIC-XSTRIP-DITH Purpose=DITHER Number Of Points=2 Point Spacing=2.0 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false	(1-2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	RCW38-2	RA: 08 59 5.9340 (134.7747250d) Dec: -47 30 51.11 (-47.51420d) Equinox: J2000		V=(?) m_K = 6.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	C-F212N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F212N	SAMP-SEQ=STEP8 ; NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]
2	C-F215N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F215N	SAMP-SEQ=STEP8 ; NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]	



Proposal 11123 - Visit 04 - A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster

Fri Jan 18 02:32:55 GMT 2008

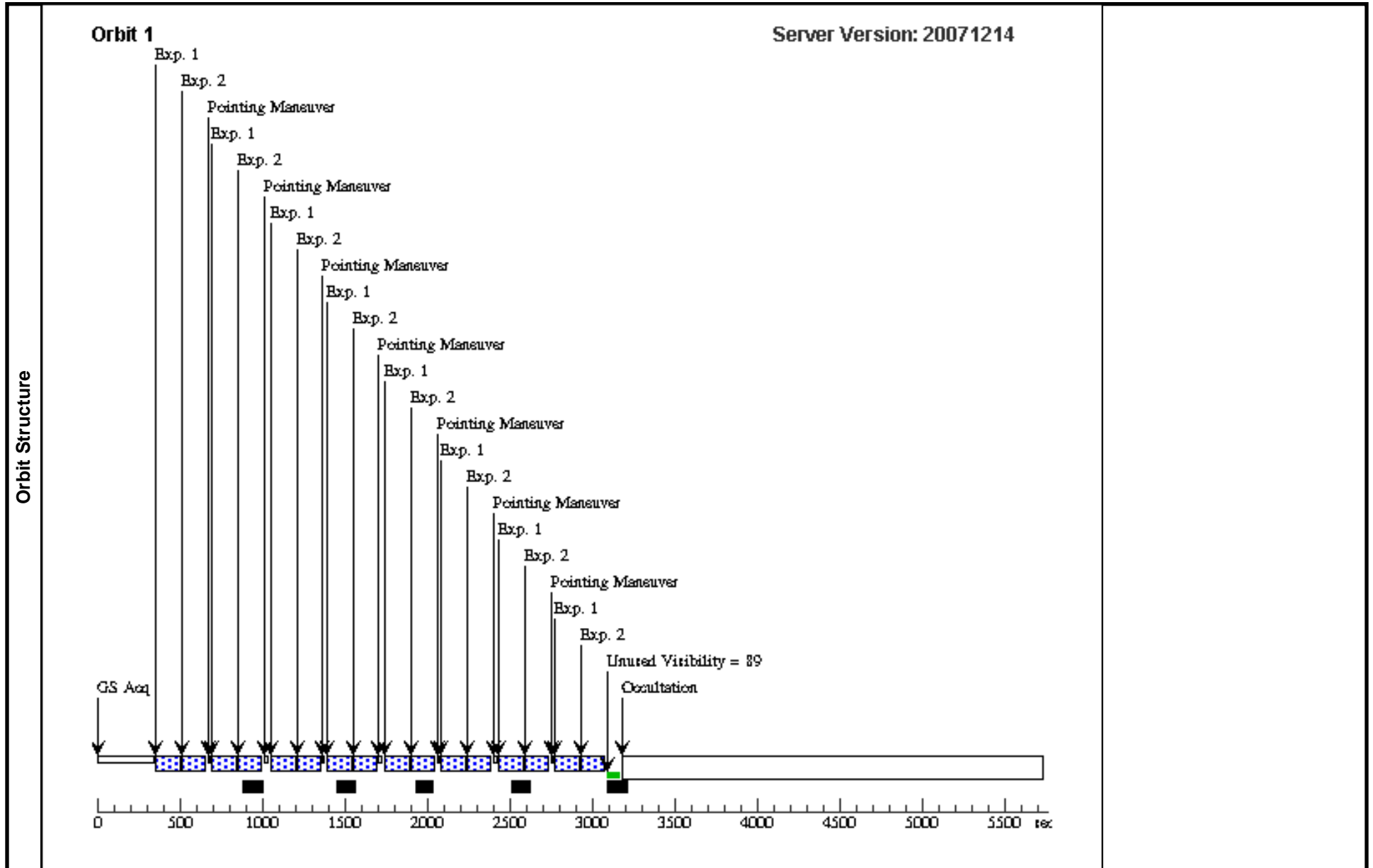
Visit	Proposal 11123, Visit 04 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: SAME ORIENT AS 03; AFTER 03									
	Patterns	#	Primary Pattern				Secondary Pattern			
		(2)	Pattern Type=NIC-SPIRAL-MAP	Coordinate Frame=CELESTIAL	Purpose=MOSAIC	Pattern Orientation=270.0	Pattern Type=NIC-XSTRIP-DITH	Coordinate Frame=POS-TARG	Purpose=DITHER	Pattern Orientation=0.0
		Number Of Points=4	Angle Between Sides=	Point Spacing=16.0	Center Pattern=false	Number Of Points=2	Angle Between Sides=	Point Spacing=2.0	Center Pattern=false	
		Line Spacing=				Line Spacing=				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	RCW38-2	RA: 08 59 5.9340 (134.7747250d) Dec: -47 30 51.11 (-47.51420d) Equinox: J2000		V=(?) m_K = 6.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	C-F212N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F212N	SAMP-SEQ=STEP8 ; NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]
	2	C-F215N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F215N	SAMP-SEQ=STEP8 ; NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]



Proposal 11123 - Visit 05 - A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster

Fri Jan 18 02:32:56 GMT 2008

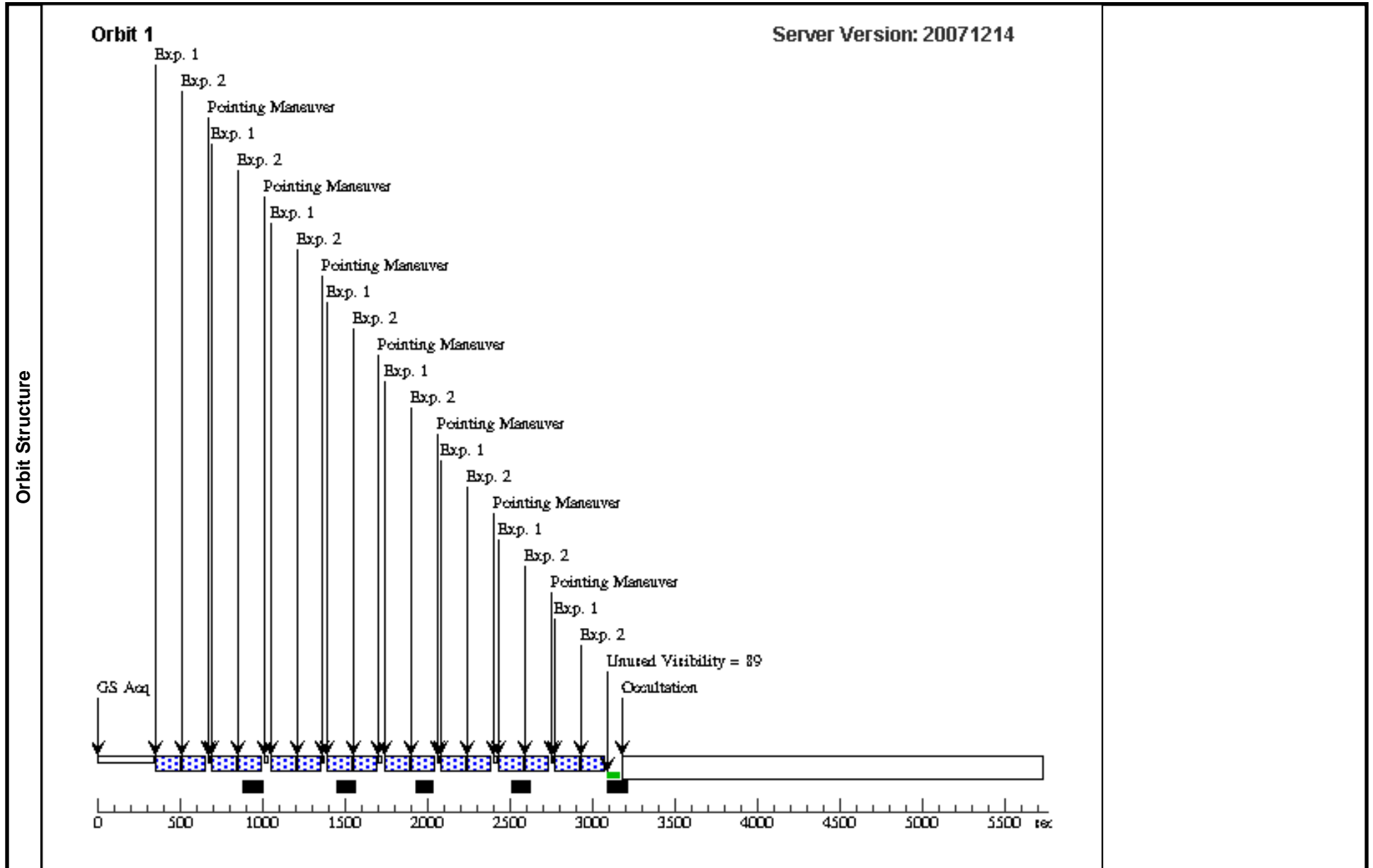
Visit	Proposal 11123, Visit 05 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: SAME ORIENT AS 03; AFTER 03									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(2)	Pattern Type=NIC-SPIRAL-MAP Coordinate Frame=CELESTIAL Purpose=MOSAIC Pattern Orientation=270.0 Number Of Points=4 Angle Between Sides= Point Spacing=16.0 Center Pattern=false Line Spacing=	Pattern Type=NIC-XSTRIP-DITH Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=0.0 Number Of Points=2 Angle Between Sides= Point Spacing=2.0 Center Pattern=false Line Spacing=	(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	RCW38-2	RA: 08 59 5.9340 (134.7747250d) Dec: -47 30 51.11 (-47.51420d) Equinox: J2000		V=(?) m_K = 6.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	C-F212N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F212N	SAMP-SEQ=STEP8 ;	NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]
2	C-F215N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F215N	SAMP-SEQ=STEP8 ;	NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]



Proposal 11123 - Visit 06 - A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster

Fri Jan 18 02:32:56 GMT 2008

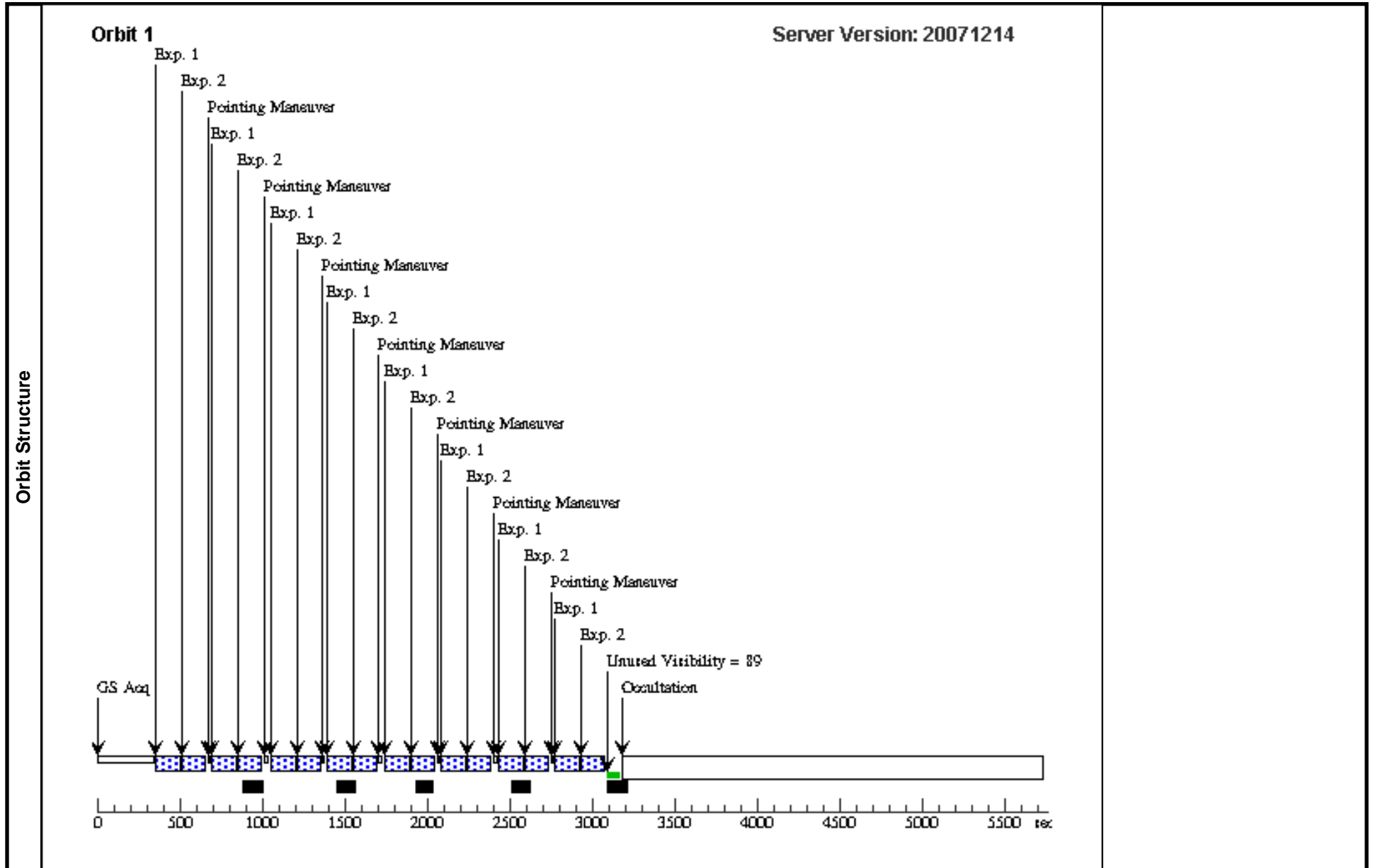
Visit	Proposal 11123, Visit 06 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: SAME ORIENT AS 03; AFTER 03									
	Patterns	#	Primary Pattern				Secondary Pattern			
		(2)	Pattern Type=NIC-SPIRAL-MAP Purpose=MOSAIC Number Of Points=4 Point Spacing=16.0 Line Spacing=	Coordinate Frame=CELESTIAL Pattern Orientation=270.0 Angle Between Sides= Center Pattern=false	Pattern Type=NIC-XSTRIP-DITH Purpose=DITHER Number Of Points=2 Point Spacing=2.0 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false	(1-2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	RCW38-2	RA: 08 59 5.9340 (134.7747250d) Dec: -47 30 51.11 (-47.51420d) Equinox: J2000		V=(?) m_K = 6.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	C-F212N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F212N	SAMP-SEQ=STEP8 ; NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]
	2	C-F215N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F215N	SAMP-SEQ=STEP8 ; NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]



Proposal 11123 - Visit 07 - A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster

Fri Jan 18 02:32:57 GMT 2008

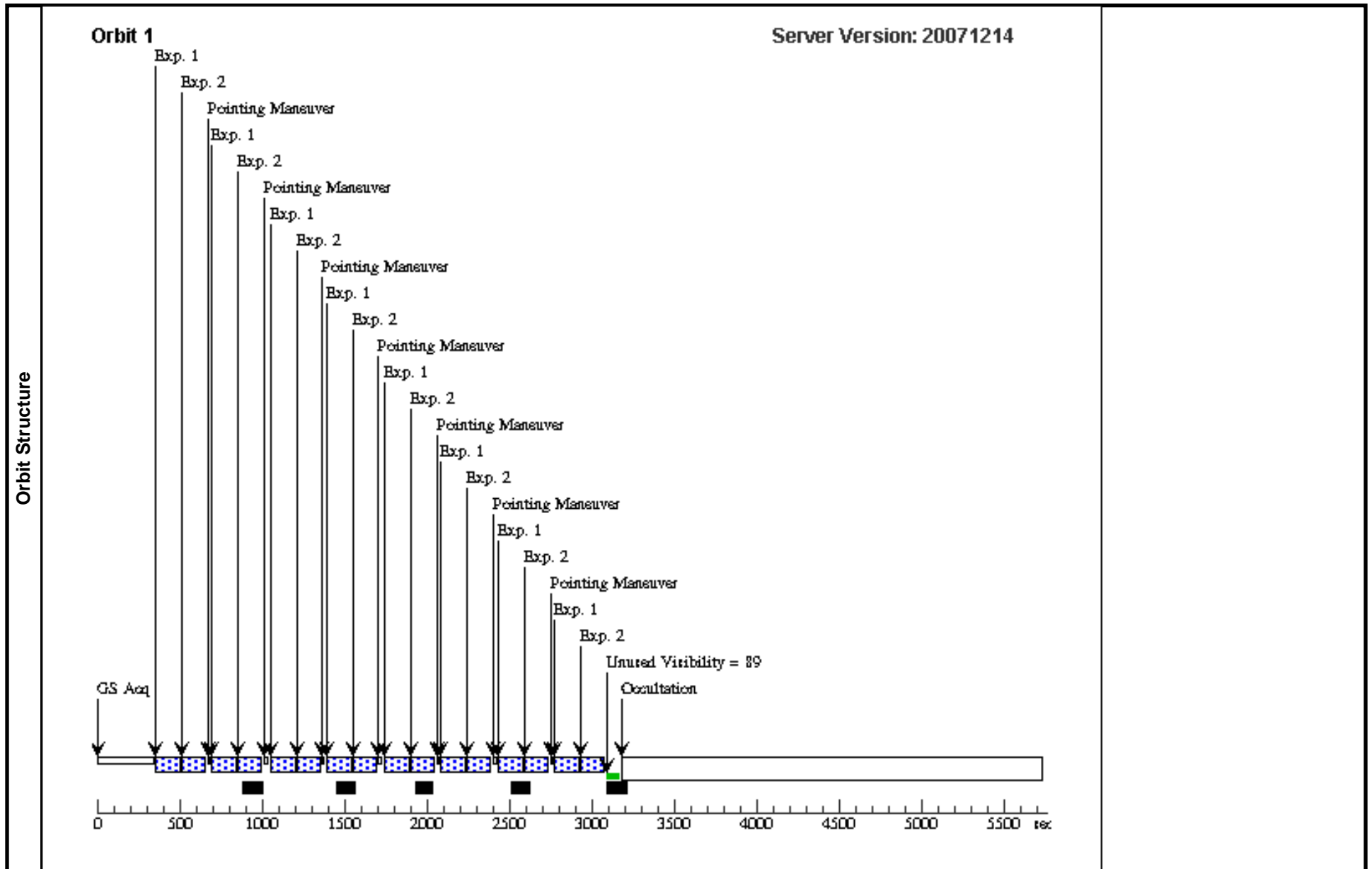
Visit	Proposal 11123, Visit 07 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: SAME ORIENT AS 03; AFTER 03									
	Patterns	#	Primary Pattern				Secondary Pattern			
		(2)	Pattern Type=NIC-SPIRAL-MAP Purpose=MOSAIC Number Of Points=4 Point Spacing=16.0 Line Spacing=	Coordinate Frame=CELESTIAL Pattern Orientation=270.0 Angle Between Sides= Center Pattern=false	Pattern Type=NIC-XSTRIP-DITH Purpose=DITHER Number Of Points=2 Point Spacing=2.0 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false	(1-2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	RCW38-2	RA: 08 59 5.9340 (134.7747250d) Dec: -47 30 51.11 (-47.51420d) Equinox: J2000		V=(?) m_K = 6.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	C-F212N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F212N	SAMP-SEQ=STEP8 ; NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]
	2	C-F215N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F215N	SAMP-SEQ=STEP8 ; NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]



Proposal 11123 - Visit 08 - A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster

Fri Jan 18 02:32:57 GMT 2008

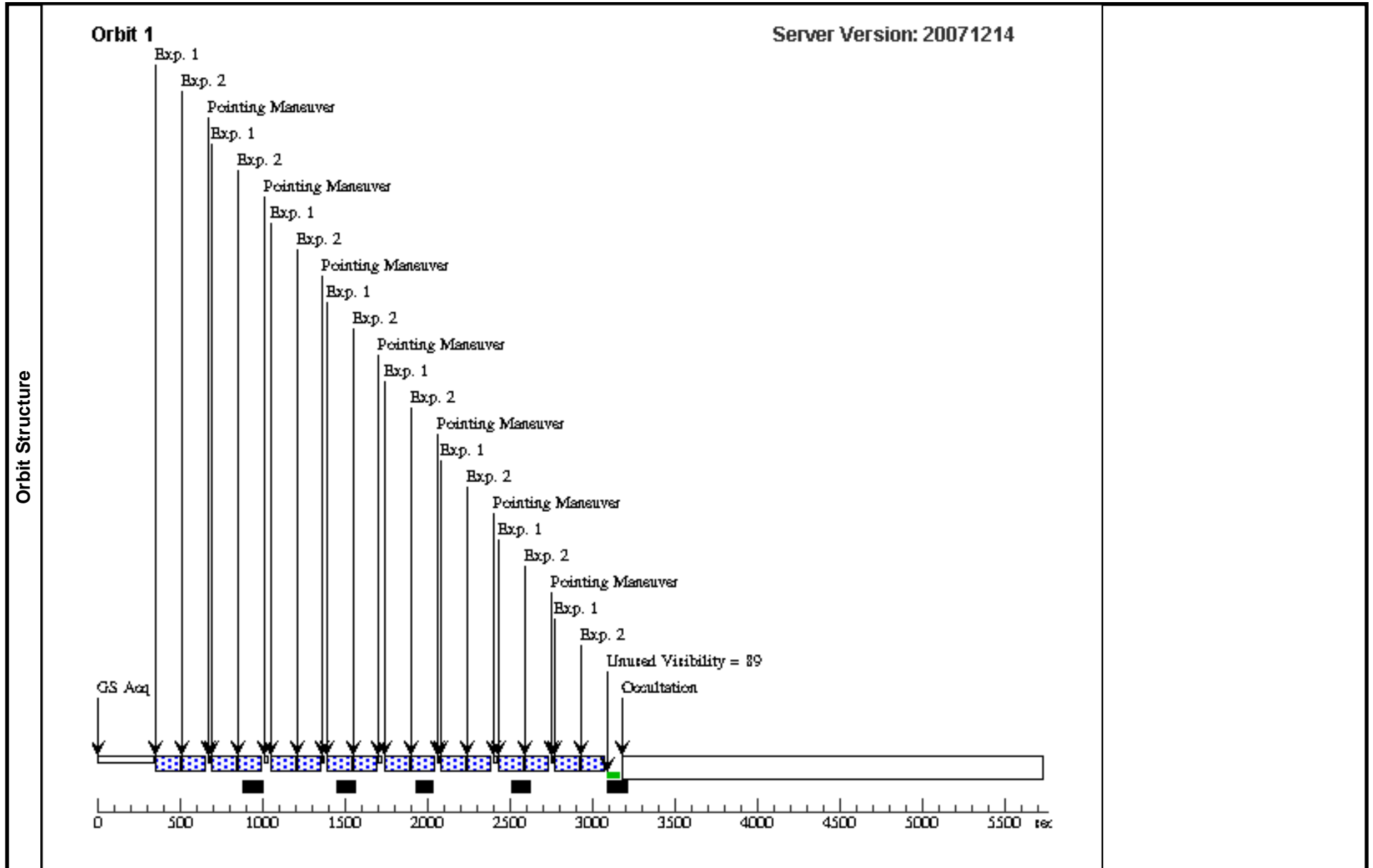
Visit	Proposal 11123, Visit 08 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: SAME ORIENT AS 03; AFTER 03										
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
		(2)	Pattern Type=NIC-SPIRAL-MAP Coordinate Frame=CELESTIAL Purpose=MOSAIC Pattern Orientation=270.0 Number Of Points=4 Angle Between Sides= Point Spacing=16.0 Center Pattern=false Line Spacing=	Pattern Type=NIC-XSTRIP-DITH Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=0.0 Number Of Points=2 Angle Between Sides= Point Spacing=2.0 Center Pattern=false Line Spacing=	(1-2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(2)	RCW38-2	RA: 08 59 5.9340 (134.7747250d) Dec: -47 30 51.11 (-47.51420d) Equinox: J2000		V=? m_K = 6.5	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	C-F212N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F212N	SAMP-SEQ=STEP8 ;	NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]
	2	C-F215N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F215N	SAMP-SEQ=STEP8 ;	NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]



Proposal 11123 - Visit 09 - A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster

Fri Jan 18 02:32:58 GMT 2008

Visit	Proposal 11123, Visit 09 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: SAME ORIENT AS 03; AFTER 03									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(2)	Pattern Type=NIC-SPIRAL-MAP Coordinate Frame=CELESTIAL Purpose=MOSAIC Pattern Orientation=270.0 Number Of Points=4 Angle Between Sides= Point Spacing=16.0 Center Pattern=false Line Spacing=	Pattern Type=NIC-XSTRIP-DITH Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=0.0 Number Of Points=2 Angle Between Sides= Point Spacing=2.0 Center Pattern=false Line Spacing=	(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	RCW38-2	RA: 08 59 5.9340 (134.7747250d) Dec: -47 30 51.11 (-47.51420d) Equinox: J2000		V=? m_K = 6.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	C-F212N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F212N	SAMP-SEQ=STEP8 ;	NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]
2	C-F215N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F215N	SAMP-SEQ=STEP8 ;	NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]



Proposal 11123 - Visit 10 - A NICMOS Survey for Proplyds in the RCW 38 Massive Embedded Cluster

Fri Jan 18 02:32:58 GMT 2008

Visit	Proposal 11123, Visit 10 Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: SAME ORIENT AS 03; AFTER 03									
	Patterns	#	Primary Pattern				Secondary Pattern			
		(2)	Pattern Type=NIC-SPIRAL-MAP	Coordinate Frame=CELESTIAL	Purpose=MOSAIC	Pattern Orientation=270.0	Pattern Type=NIC-XSTRIP-DITH	Coordinate Frame=POS-TARG	Purpose=DITHER	Pattern Orientation=0.0
		Number Of Points=4	Angle Between Sides=	Point Spacing=16.0	Center Pattern=false	Number Of Points=2	Angle Between Sides=	Point Spacing=2.0	Center Pattern=false	
		Line Spacing=				Line Spacing=				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	RCW38-2	RA: 08 59 5.9340 (134.7747250d) Dec: -47 30 51.11 (-47.51420d) Equinox: J2000		V=(?) m_K = 6.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	C-F212N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F212N	SAMP-SEQ=STEP8 ; NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]
	2	C-F215N	(2) RCW38-2	NIC2, MULTIACCUM, NIC2	F215N	SAMP-SEQ=STEP8 ; NSAMP=22	POS TARG -1.575,- 2.4	Pattern 1-2 (2)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 4,1)] [==>(Pattern 4,2)]	[1]

