



11173 - Completing an Accurate Map of M31 Microlensing

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>
02	(3) M31-MEGA-ML4 (6) M31-MEGA-ML7 ANY	NIC2 WFPC2	1	28-May-2008 21:03:29.0	yes
01	(14) M31-MEGA-ML16 (15) M31-MEGA-ML18	NIC2 WFPC2	1	28-May-2008 21:03:37.0	yes
07	(1) M31-MEGA-ML1-2 (8) M31-MEGA-ML9 ANY	NIC2 WFPC2	1	28-May-2008 21:03:48.0	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>
10	(13) M31-MEGA-ML14 ANY	NIC2 WFPC2	1	28-May-2008 21:03:53.0	yes
09	(12) M31-MEGA-ML13 ANY	NIC2 WFPC2	1	28-May-2008 21:03:58.0	yes
08	(11) M31-MEGA-ML12 ANY	NIC2 WFPC2	1	28-May-2008 21:04:03.0	yes
06	(2) M31-POS18 (7) M31-MEGA-ML8 ANY	NIC2 WFPC2	1	28-May-2008 21:04:08.0	yes
05	(9) M31-MEGA-ML10 (10) M31-MEGA-ML11 ANY	NIC2 WFPC2	1	28-May-2008 21:04:14.0	yes
04	(4) M31-MEGA-ML5 (5) M31-MEGA-ML6 ANY	NIC2 WFPC2	1	28-May-2008 21:04:20.0	yes
03	(2) M31-POS18 (19) M31-POS35	NIC2 WFPC2	1	28-May-2008 21:04:26.0	yes

10 Total Orbits Used

ABSTRACT

The halo microlensing masses detected in the MACHO survey (claimed to compose about 20% of the Galaxy's mass) represent a major enigma in astrophysics, one that must be effectively cross-examined by an independent test. We have completed a large, densely-sampled survey of M31 that can reveal in another galaxy such a halo microlensing signal if it exists. In a previous HST/ACS+WFPC2 program (GO 10273, Cycle 13, 16 orbits) we were able to learn considerably more about a subsample of these M31 microlensing events. We were pleased to find that in most cases we could isolate the source star for each event, find its baseline flux and colors (essential for ruling out classes of confusing variable stars), test for

misidentification of background supernovae, and measure the Einstein parameters, which constrain the range of most likely lens mass. (These Cycle 13 results are published in *The Astrophysical Journal Letters*.) We propose to finish the job, taking a similar series of exposures to more than double the sample of well-constrained microlensing events, which together with the larger ground-based sample for which we are completing our analyses will provide 20-30 M31 bona fide microlensing events observed by HST. This will be done via a series of targeted PC exposures, meant to maximize the number of candidates studied, one (or two) at a time. A sample of this size and quality should be sufficient to settle the issue of a significant contribution to the halos of galaxies by stellar-mass lenses. Furthermore, if there is a surplus of such microlensing events above what might be expected from stars alone, the higher quality of information will allow us to more accurately describe the spatial distribution of these lenses. We will also complete several unique studies of M31 stellar populations, both in support of the microlensing measurement and in their own right.

OBSERVING DESCRIPTION

These consist of ten visits of one orbit apiece consisting of WFC2 prime observations on two targets, some separated by less than 2 arcmin and most by more than 2 arcmin. There are long parallel integrations on NIC2 as proposed to obtain images for faint stellar population studies.

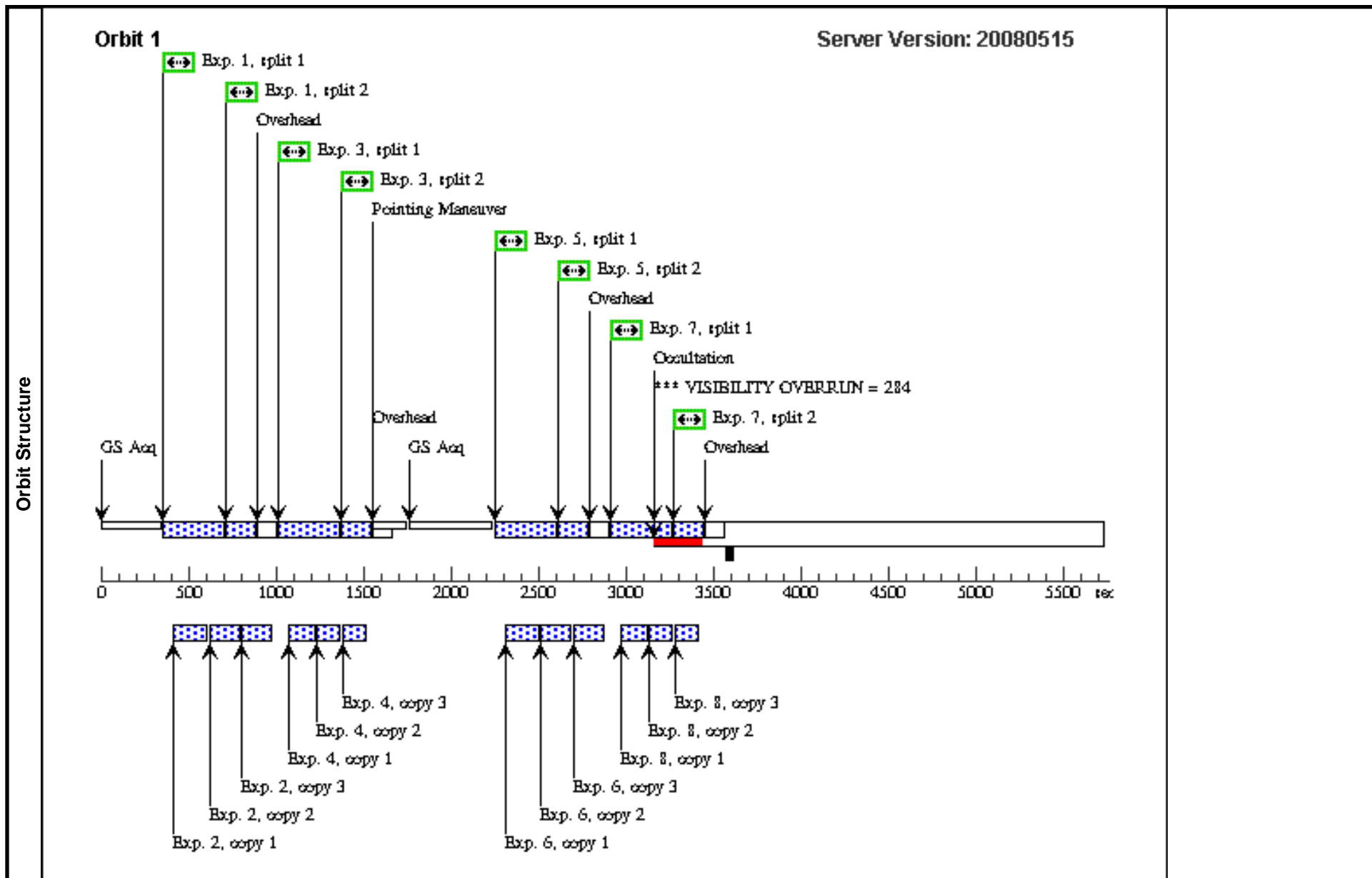
Proposal 11173 - Visit 02 - Completing an Accurate Map of M31 Microlensing

Thu May 29 01:04:30 GMT 2008

Visit	Proposal 11173, Visit 02, implementation Diagnostic Status: Warning Scientific Instruments: NIC2, WFPC2 Special Requirements: (none)									
	Diagnostics	(Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	M31-MEGA-ML4	RA: 00 43 4.0800 (10.7670000d) Dec: +41 26 15.60 (41.43767d) Equinox: J2000		V=23+/-2	Reference Frame: ICRS				
(6)	M31-MEGA-ML7	RA: 00 44 20.8900 (11.0870417d) Dec: +41 28 44.60 (41.47906d) Equinox: J2000		V=23+/-2	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	2.01	(3) M31-MEGA-ML 4	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5		Prime + Parallel Group 1-2	240.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	2	2.0101	ANY	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Group 1-2	191.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	3	2.02	(3) M31-MEGA-ML 4	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 3-4	320.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	4	2.0201	ANY	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 3-4	145.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	5	2.03	(6) M31-MEGA-ML 7	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5		Prime + Parallel Group 5-6	240.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	6	2.0301	ANY	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Group 5-6	191.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]

Proposal 11173 - Visit 02 - Completing an Accurate Map of M31 Microlensing

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	7	2.04	(6) M31-MEGA-ML 7	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 7-8	320.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
8	2.0401	ANY	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 7-8	145.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]	



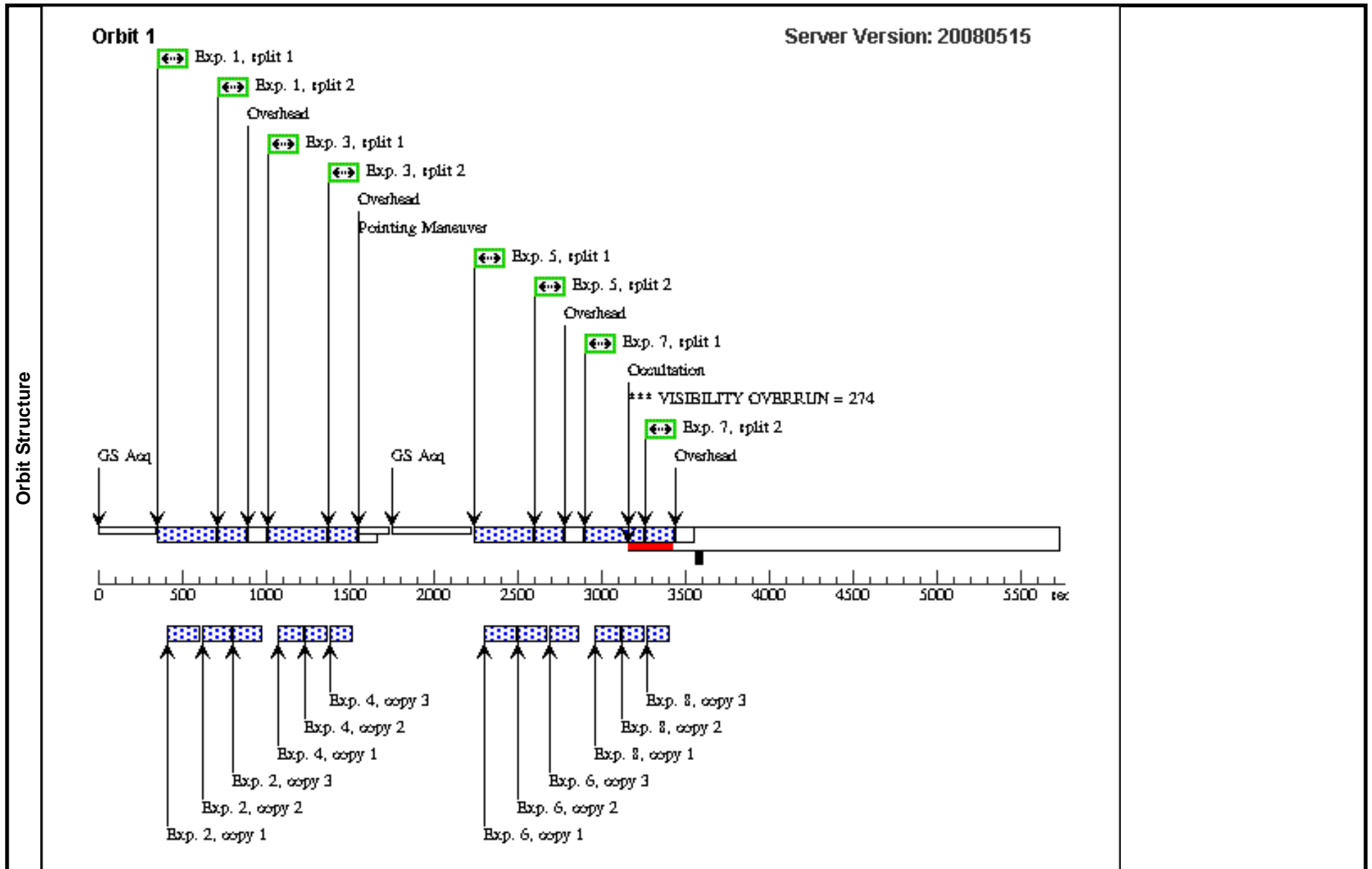
Proposal 11173 - Visit 01 - Completing an Accurate Map of M31 Microlensing

Thu May 29 01:04:31 GMT 2008

Visit	Proposal 11173, Visit 01, implementation Diagnostic Status: Warning Scientific Instruments: NIC2, WFPC2 Special Requirements: ORIENT 0.0D TO 359.9 D									
	(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	M31-MEGA-ML16	RA: 00 42 51.2200 (10.7134167d) Dec: +41 23 55.30 (41.39869d) Equinox: J2000		V=23+/-2	Reference Frame: ICRS				
(15)	M31-MEGA-ML18	RA: 00 43 17.2700 (10.8219583d) Dec: +41 02 13.70 (41.03714d) Equinox: J2000		V=23+/-2	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	2.01	(14) M31-MEGA-M L16	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5	GS ACQ SCENARI O BASE1T3	Prime + Parallel Gro up 1-2	240.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	2	2.0101	(14) M31-MEGA-M L16	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Gro up 1-2	191.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	3	2.02	(14) M31-MEGA-M L16	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Gro up 3-4	320.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	4	2.0201	(14) M31-MEGA-M L16	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Gro up 3-4	145.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	5	2.03	(15) M31-MEGA-M L18	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5	GS ACQ SCENARI O BASE1T3	Prime + Parallel Gro up 5-6	240.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	6	2.0301	(15) M31-MEGA-M L18	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Gro up 5-6	191.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]

Proposal 11173 - Visit 01 - Completing an Accurate Map of M31 Microlensing

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	7	2.04	(15) M31-MEGA-M L18	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 7-8	320.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
8	2.0401	(15) M31-MEGA-M L18	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 7-8	145.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]	



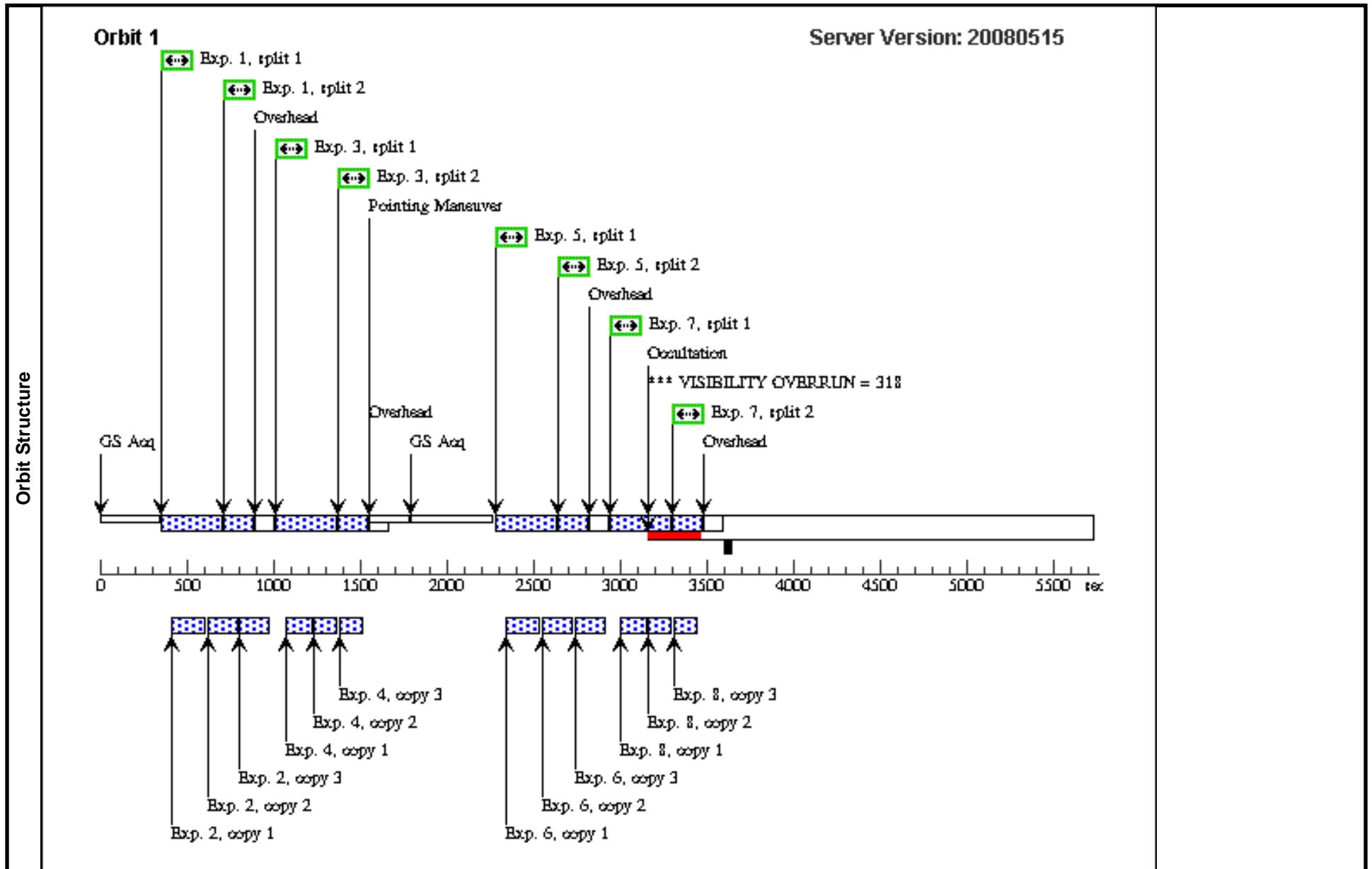
Proposal 11173 - Visit 07 - Completing an Accurate Map of M31 Microlensing

Thu May 29 01:04:32 GMT 2008

Visit	Proposal 11173, Visit 07, implementation Diagnostic Status: Warning Scientific Instruments: NIC2, WFPC2 Special Requirements: (none)									
	(Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(1)	M31-MEGA-ML1-2	RA: 00 43 11.2450 (10.7968542d) Dec: +41 17 45.70 (41.29603d) Equinox: J2000				V=23+/-2	Reference Frame: ICRS		
(8)	M31-MEGA-ML9	RA: 00 44 46.8000 (11.1950000d) Dec: +41 41 6.70 (41.68519d) Equinox: J2000				V=23+/-2	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	2.01	(1) M31-MEGA-ML 1-2	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5	GS ACQ SCENARI O BASE1T3	Prime + Parallel Group 1-2	240 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2	2.0101	ANY	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Group 1-2	191 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	3	2.02	(1) M31-MEGA-ML 1-2	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 3-4	320 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	4	2.0201	ANY	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 3-4	145 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	5	2.01	(8) M31-MEGA-ML 9	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5	GS ACQ SCENARI O BASE1T3	Prime + Parallel Group 5-6	240 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	6	2.0101	ANY	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Group 5-6	191 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]

Proposal 11173 - Visit 07 - Completing an Accurate Map of M31 Microlensing

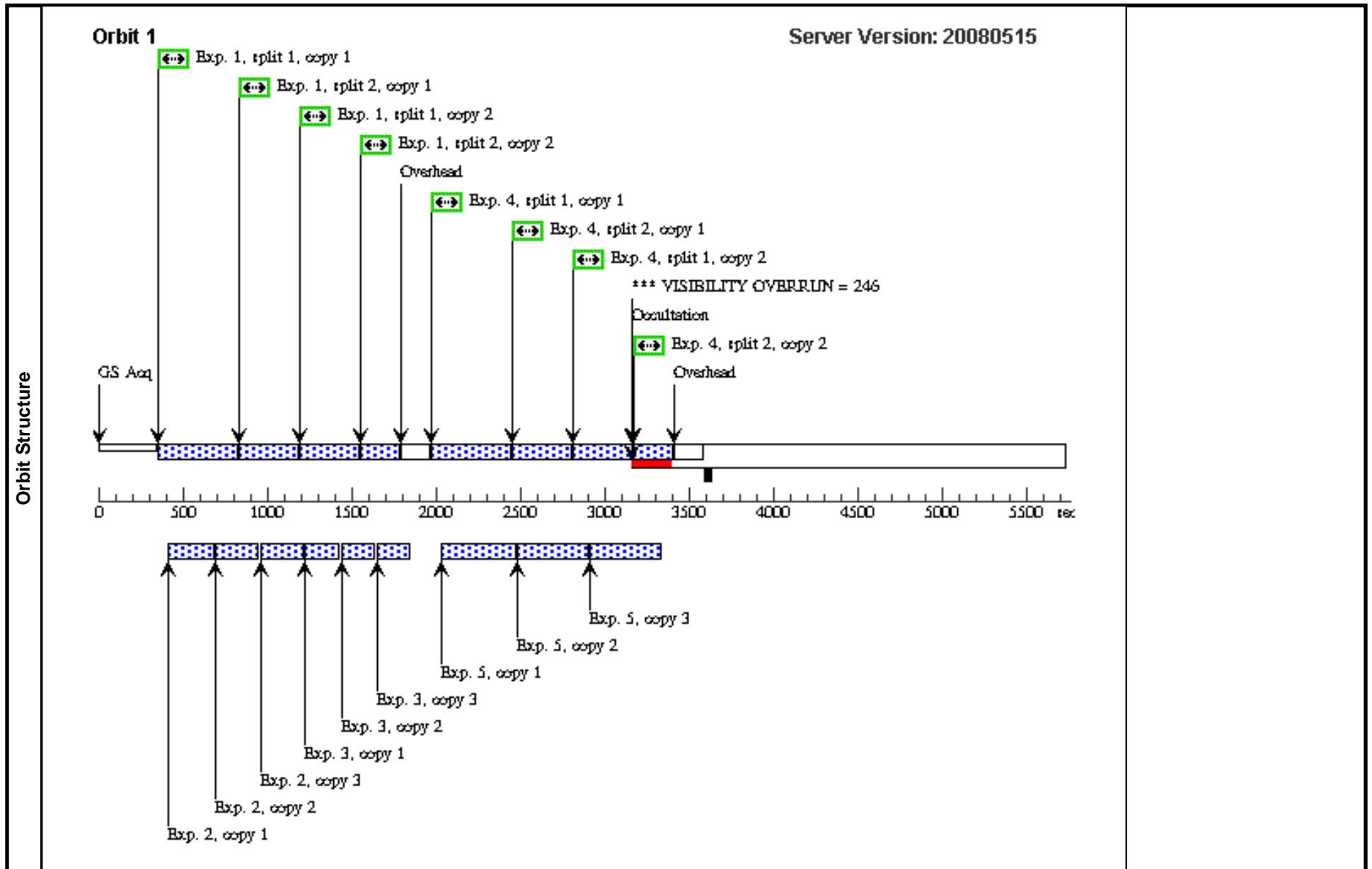
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	7	2.02	(8) M31-MEGA-ML 9	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 7-8	320 Secs [==>(Split 1)] [==>(Split 2)]	[1]
8	2.0201	ANY	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 7-8	145 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]	



Proposal 11173 - Visit 10 - Completing an Accurate Map of M31 Microlensing

Thu May 29 01:04:33 GMT 2008

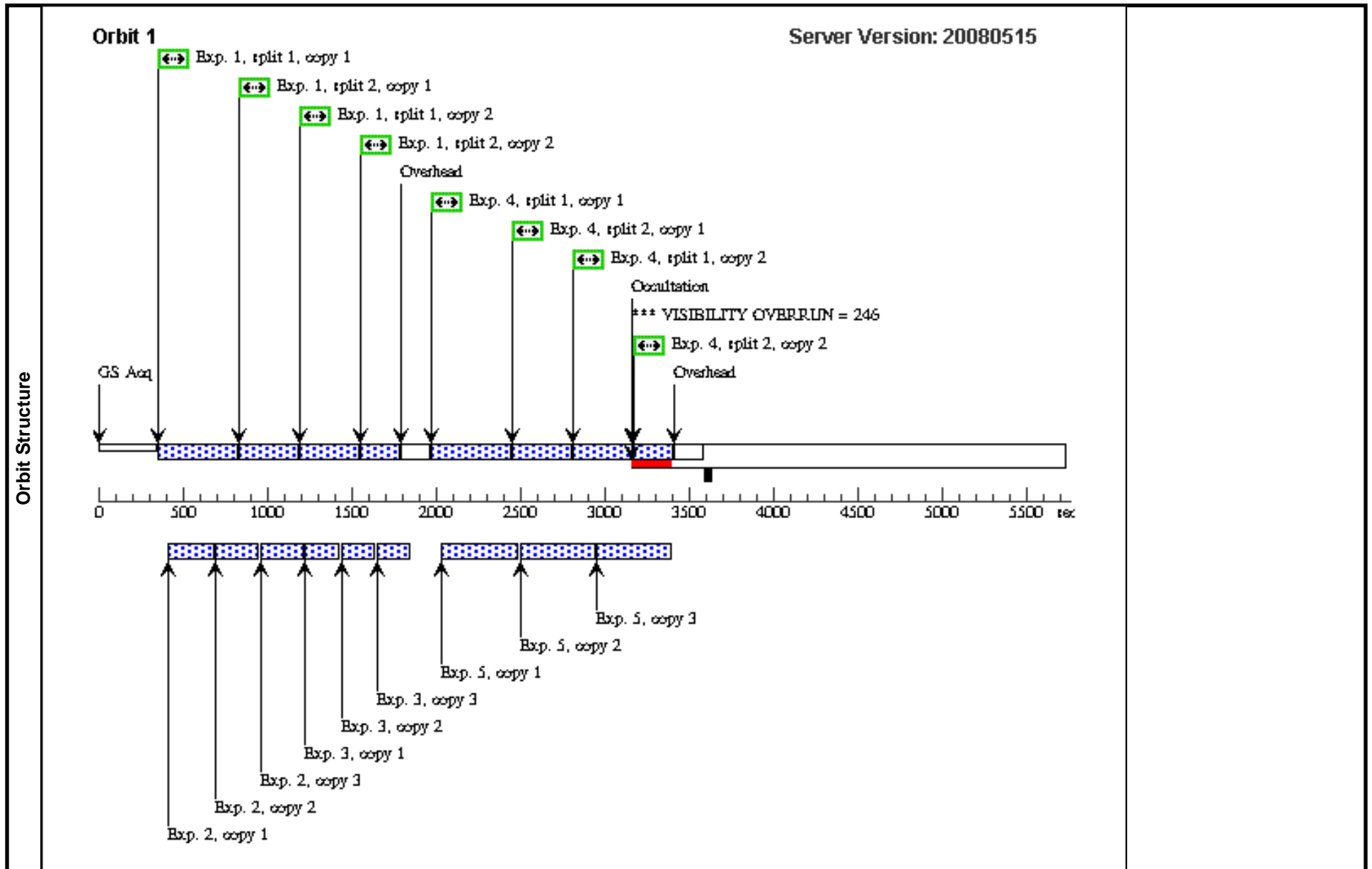
Visit	Proposal 11173, Visit 10, implementation Diagnostic Status: Warning Scientific Instruments: NIC2, WFPC2 Special Requirements: (none)									
	(Visit 10) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(13)	M31-MEGA-ML14	RA: 00 43 42.5300 (10.9272083d) Dec: +40 42 33.90 (40.70942d) Equinox: J2000		V=23+/-2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	2.01	(13) M31-MEGA-M L14	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5		Prime + Parallel Group 1-3	360 Secs X 2 [=>(Copy 1, Split 1)] [=>(Copy 1, Split 2)] [=>(Copy 2, Split 1)] [=>(Copy 2, Split 2)]	[1]
	2	2.0101	ANY	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 1-3	251.8 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	3	2.0101	ANY	NIC2, ACCUM, NIC2	F110W			Prime + Parallel Group 1-3	209.5 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	4	2.02	(13) M31-MEGA-M L14	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 4-5	400 Secs X 2 [=>(Copy 1, Split 1)] [=>(Copy 1, Split 2)] [=>(Copy 2, Split 1)] [=>(Copy 2, Split 2)]	[1]
	5	2.0201	ANY	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Group 4-5	437.1 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]



Proposal 11173 - Visit 09 - Completing an Accurate Map of M31 Microlensing

Thu May 29 01:04:33 GMT 2008

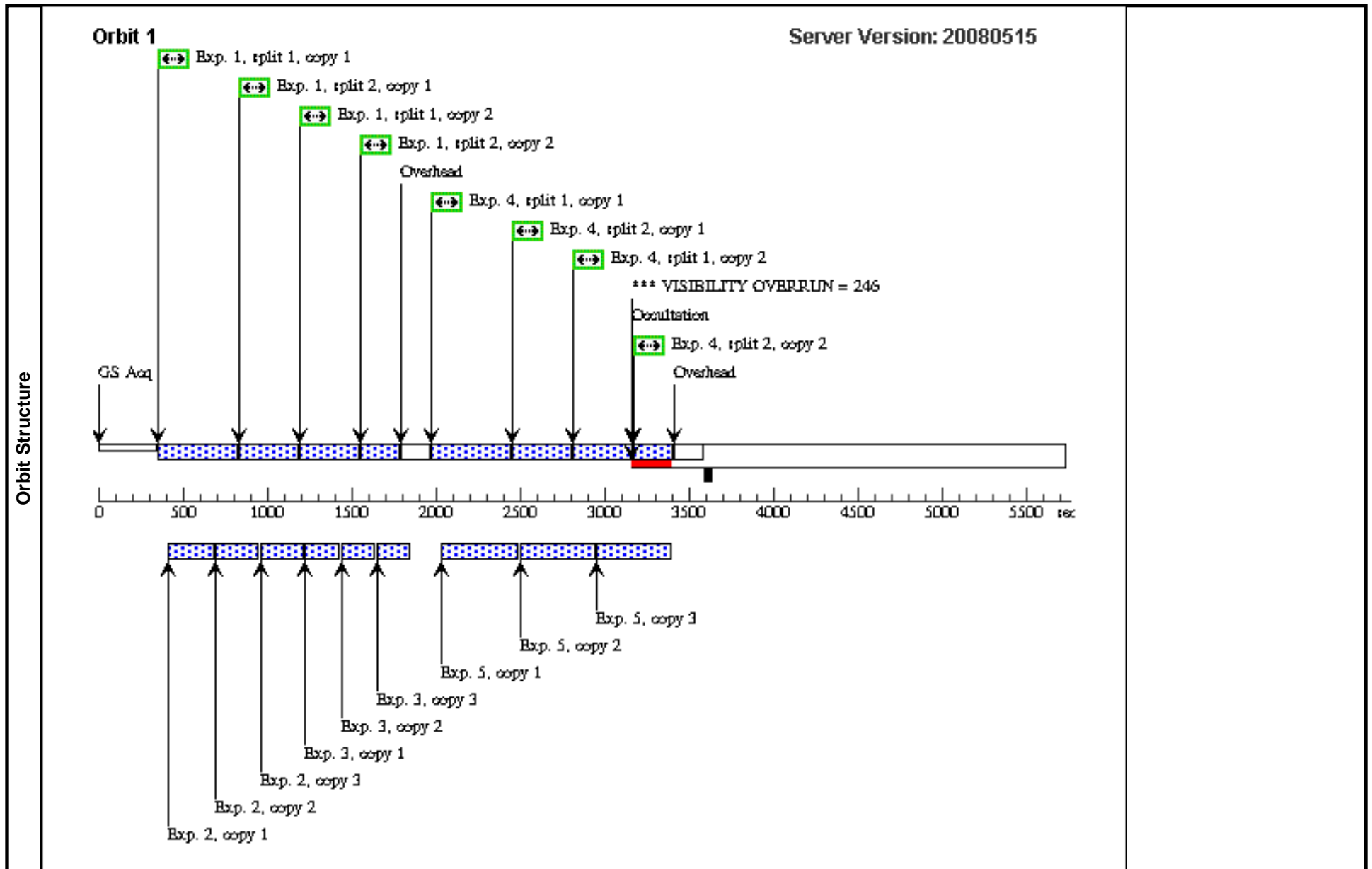
Visit	Proposal 11173, Visit 09, implementation Diagnostic Status: Warning Scientific Instruments: NIC2, WFPC2 Special Requirements: (none)									
	(Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	M31-MEGA-ML13	RA: 00 43 2.4900 (10.7603750d) Dec: +40 45 9.20 (40.75256d) Equinox: J2000		V=23+/-2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	2.01	(12) M31-MEGA-M L13	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5		Prime + Parallel Group 1-3	360 Secs X 2 [=>(Copy 1, Split 1)] [=>(Copy 1, Split 2)] [=>(Copy 2, Split 1)] [=>(Copy 2, Split 2)]	[1]
	2	2.0101	ANY	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 1-3	251.8 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	3	2.0101	ANY	NIC2, ACCUM, NIC2	F110W			Prime + Parallel Group 1-3	209.5 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	4	2.02	(12) M31-MEGA-M L13	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 4-5	400 Secs X 2 [=>(Copy 1, Split 1)] [=>(Copy 1, Split 2)] [=>(Copy 2, Split 1)] [=>(Copy 2, Split 2)]	[1]
	5	2.0201	ANY	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Group 4-5	479 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]



Proposal 11173 - Visit 08 - Completing an Accurate Map of M31 Microlensing

Thu May 29 01:04:33 GMT 2008

Visit	Proposal 11173, Visit 08, implementation Diagnostic Status: Warning Scientific Instruments: NIC2, WFPC2 Special Requirements: (none)									
	(Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	M31-MEGA-ML12	RA: 00 41 26.9000 (10.3620833d) Dec: +40 49 42.10 (40.82836d) Equinox: J2000		V=23+/-2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	2.01	(11) M31-MEGA-M L12	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5		Prime + Parallel Group 1-3	360 Secs X 2 [=>(Copy 1, Split 1)] [=>(Copy 1, Split 2)] [=>(Copy 2, Split 1)] [=>(Copy 2, Split 2)]	[1]
	2	2.0101	ANY	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 1-3	251.8 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	3	2.0101	ANY	NIC2, ACCUM, NIC2	F110W			Prime + Parallel Group 1-3	209.5 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	4	2.02	(11) M31-MEGA-M L12	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 4-5	400 Secs X 2 [=>(Copy 1, Split 1)] [=>(Copy 1, Split 2)] [=>(Copy 2, Split 1)] [=>(Copy 2, Split 2)]	[1]
	5	2.0201	ANY	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Group 4-5	479 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]



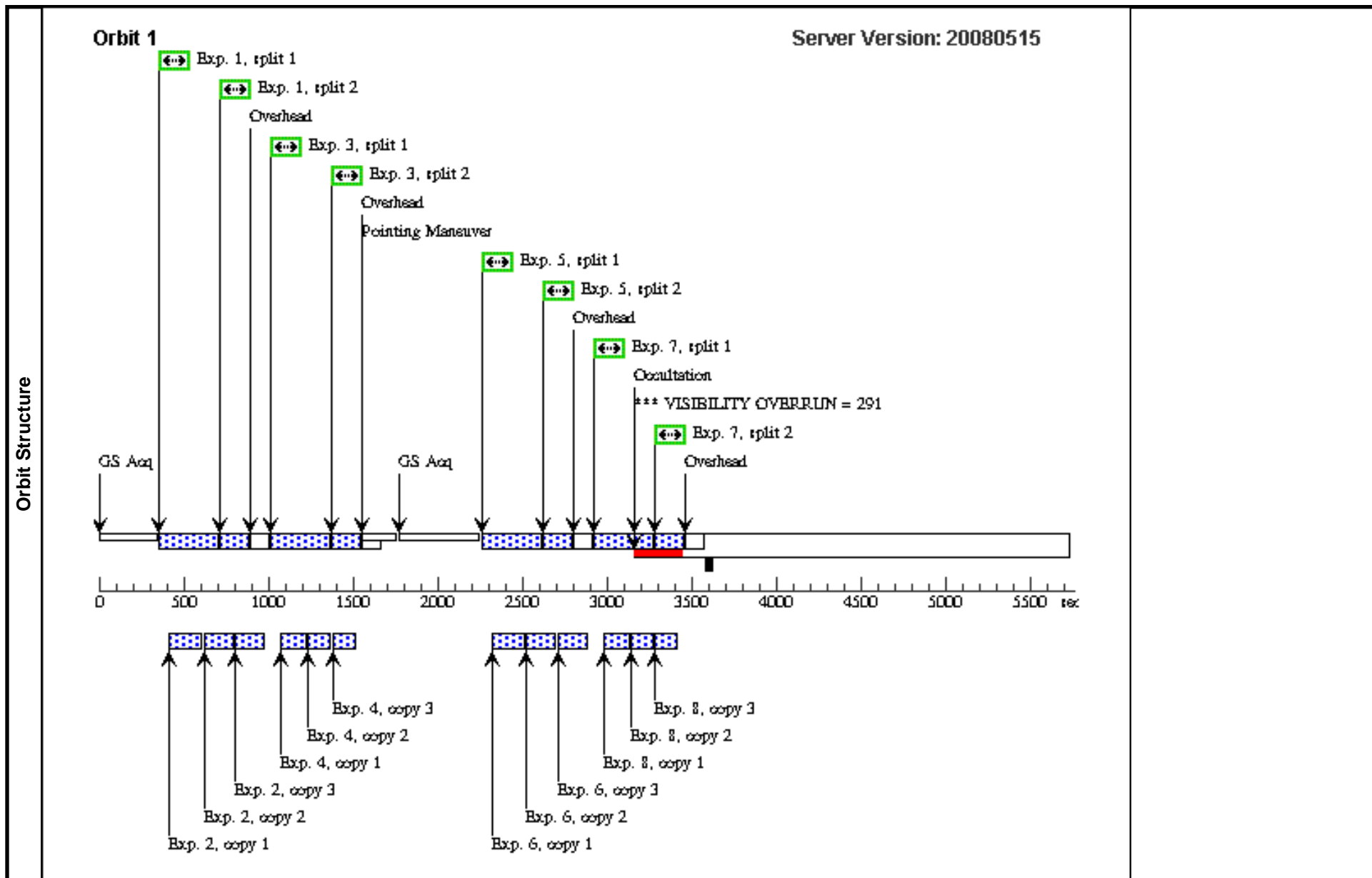
Proposal 11173 - Visit 06 - Completing an Accurate Map of M31 Microlensing

Thu May 29 01:04:34 GMT 2008

Visit	Proposal 11173, Visit 06, implementation Diagnostic Status: Warning Scientific Instruments: NIC2, WFPC2 Special Requirements: (none)									
	Diagnostics	(Visit 06) Warning (Orbit Planner): VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	M31-POS18	RA: 00 43 15.7600 (10.8156667d) Dec: +41 20 52.20 (41.34783d) Equinox: J2000		V=23+/-2	Reference Frame: ICRS				
(7)	M31-MEGA-ML8	RA: 00 43 24.5300 (10.8522083d) Dec: +41 37 50.40 (41.63067d) Equinox: J2000		V=23+/-2	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	2.01	(2) M31-POS18	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5		Prime + Parallel Group 1-2	240.0 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2	2.0101	ANY	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Group 1-2	191.0 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	3	2.02	(2) M31-POS18	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 3-4	320.0 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	4	2.0201	ANY	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 3-4	145.0 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	5	2.03	(7) M31-MEGA-ML8	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5		Prime + Parallel Group 5-6	240.0 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	6	2.0301	ANY	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Group 5-6	191.0 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]

Proposal 11173 - Visit 06 - Completing an Accurate Map of M31 Microlensing

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	7	2.04	(7) M31-MEGA-ML 8	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 7-8	320.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
8	2.0401	ANY	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 7-8	145.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]	



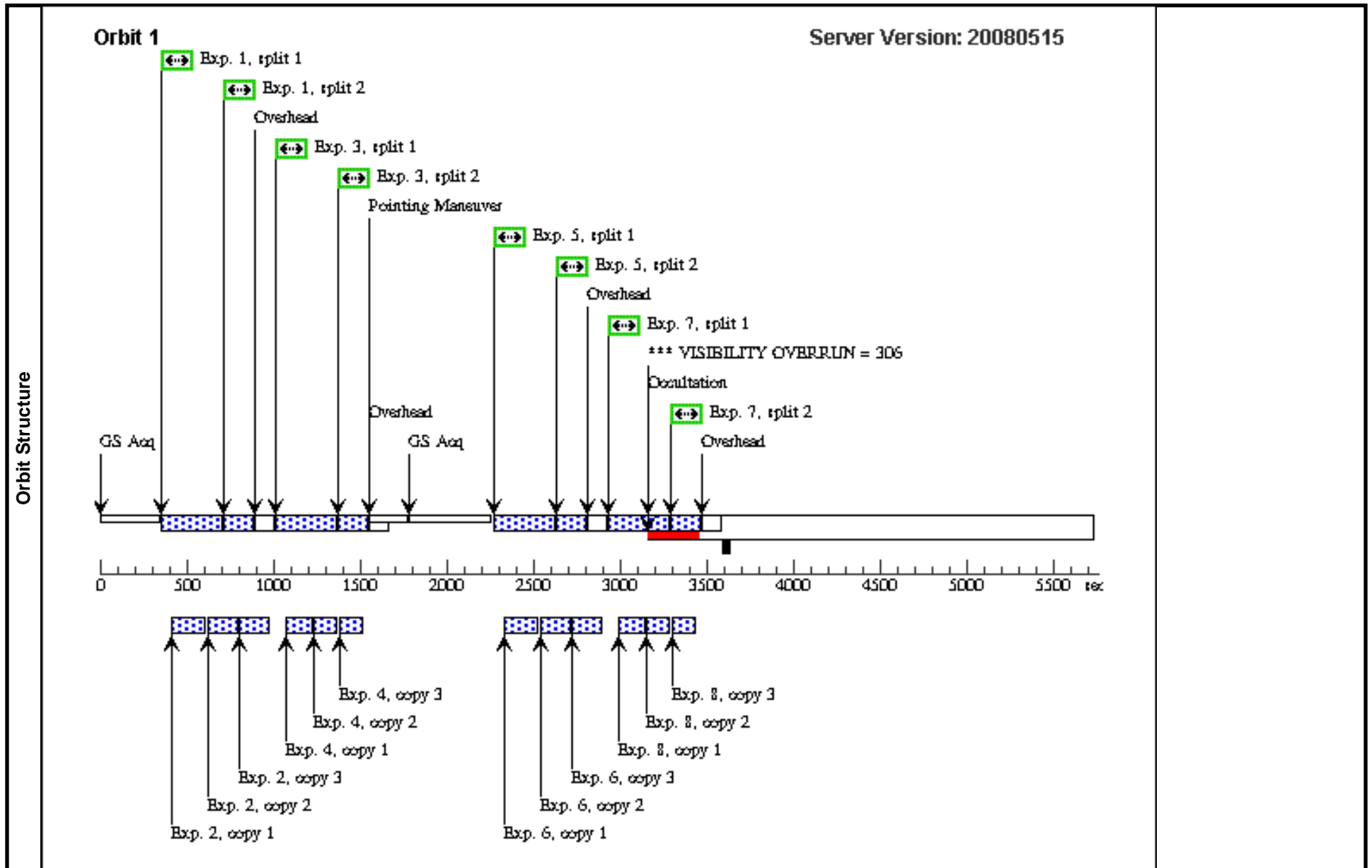
Proposal 11173 - Visit 05 - Completing an Accurate Map of M31 Microlensing

Thu May 29 01:04:34 GMT 2008

Visit	Proposal 11173, Visit 05, implementation Diagnostic Status: Warning Scientific Instruments: NIC2, WFPC2 Special Requirements: (none)									
	Diagnosics (Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(9)	M31-MEGA-ML10	RA: 00 43 54.8700 (10.9786250d) Dec: +41 10 33.30 (41.17592d) Equinox: J2000				V=23+/-2	Reference Frame: ICRS		
(10)	M31-MEGA-ML11	RA: 00 42 29.9000 (10.6245833d) Dec: +40 53 45.60 (40.89600d) Equinox: J2000				V=23+/-2	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	2.01	(9) M31-MEGA-ML10	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5		Prime + Parallel Group 1-2	240.0 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2	2.0101	ANY	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Group 1-2	191.0 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	3	2.02	(9) M31-MEGA-ML10	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 3-4	320.0 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	4	2.0201	ANY	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 3-4	145.0 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	5	2.03	(10) M31-MEGA-ML11	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5		Prime + Parallel Group 5-6	240.0 Secs [=>(Split 1)] [=>(Split 2)]	[1]
6	2.0301	ANY	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Group 5-6	191.0 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]	

Proposal 11173 - Visit 05 - Completing an Accurate Map of M31 Microlensing

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	7	2.04	(10) M31-MEGA-M L11	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 7-8	320.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
8	2.0401	ANY	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 7-8	145.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]	



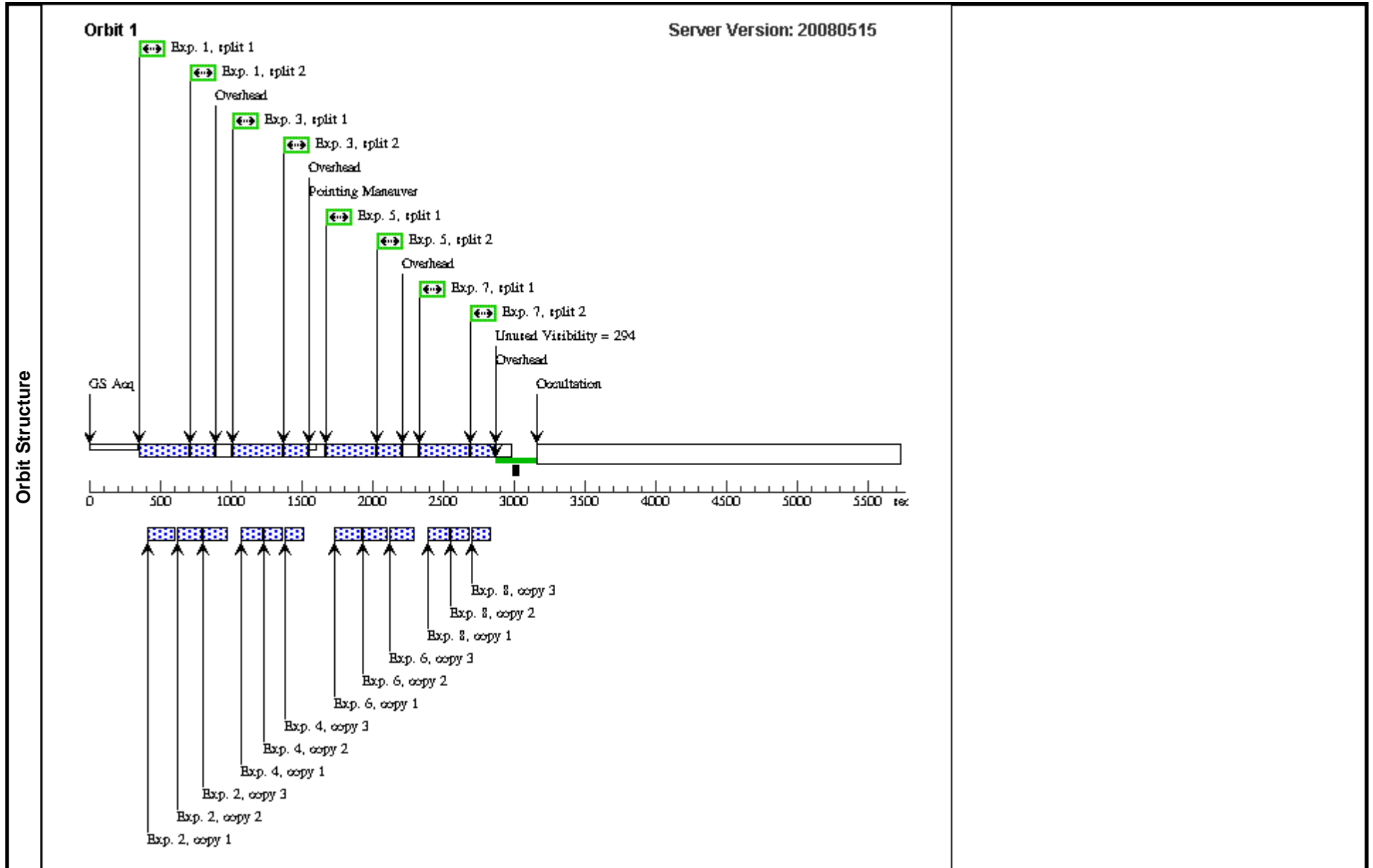
Proposal 11173 - Visit 04 - Completing an Accurate Map of M31 Microlensing

Thu May 29 01:04:35 GMT 2008

Visit	Proposal 11173, Visit 04, implementation									
	Diagnostic Status: No Diagnostics									
Scientific Instruments: NIC2, WFPC2										
Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	M31-MEGA-ML5	RA: 00 44 48.9500 (11.2039583d) Dec: +41 22 59.30 (41.38314d) Equinox: J2000		V=23+/-2	Reference Frame: ICRS				
(5)	M31-MEGA-ML6	RA: 00 44 50.9700 (11.2123750d) Dec: +41 24 42.40 (41.41178d) Equinox: J2000		V=23+/-2	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	2.01	(4) M31-MEGA-ML 5	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5	GS ACQ SCENARI O BASE1T3	Prime + Parallel Gro up 1-2	240.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	2	2.0101	ANY	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Gro up 1-2	191.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	3	2.02	(4) M31-MEGA-ML 5	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Gro up 3-4	320.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	4	2.0201	ANY	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Gro up 3-4	145.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	5	2.03	(5) M31-MEGA-ML 6	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5		Prime + Parallel Gro up 5-6	240.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	6	2.0301	ANY	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Gro up 5-6	191.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
	7	2.04	(5) M31-MEGA-ML 6	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Gro up 7-8	320.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]

Proposal 11173 - Visit 04 - Completing an Accurate Map of M31 Microlensing

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	8	2.0401	ANY	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 7-8	145.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]



Proposal 11173 - Visit 03 - Completing an Accurate Map of M31 Microlensing

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Visit	Proposal 11173, Visit 03, completed Diagnostic Status: Warning Scientific Instruments: NIC2, WFPC2 Special Requirements: (none)									
	Diagnostics	(Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN								
(Visit 03) Warning (Orbit Planner): NO ORIENT FOR COORDINATED PARALLEL										
(Visit 03) Warning (Orbit Planner): NO ORIENT FOR COORDINATED PARALLEL										
(Visit 03) Warning (Orbit Planner): NO ORIENT FOR COORDINATED PARALLEL										
(Visit 03) Warning (Orbit Planner): NO ORIENT FOR COORDINATED PARALLEL										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	M31-POS18	RA: 00 43 15.7600 (10.8156667d) Dec: +41 20 52.20 (41.34783d) Equinox: J2000		V=23+/-2	Reference Frame: ICRS				
	(19)	M31-POS35	RA: 00 43 15.8300 (10.8159583d) Dec: +41 33 3.80 (41.55106d) Equinox: J2000		V=23	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	3.01	(2) M31-POS18	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5		Prime + Parallel Group 1-2	320.0 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	2	3.0101	(2) M31-POS18	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 1-2	191.0 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	3	3.02	(2) M31-POS18	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 3-4	400.0 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	4	3.0202	(2) M31-POS18	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Group 3-4	251.0 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]
	5	3.03	(19) M31-POS35	WFPC2, IMAGE, PC1	F555W	CR-SPLIT=0.5		Prime + Parallel Group 5-6	320.0 Secs [=>(Split 1)] [=>(Split 2)]	[1]
	6	3.0301	(19) M31-POS35	NIC2, ACCUM, NIC2	F160W			Prime + Parallel Group 5-6	191.0 Secs X 3 [=>(Copy 1)] [=>(Copy 2)] [=>(Copy 3)]	[1]

Proposal 11173 - Visit 03 - Completing an Accurate Map of M31 Microlensing

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	7	3.04	(19) M31-POS35	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=0.5		Prime + Parallel Group 7-8	400.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
8	3.0401	(19) M31-POS35	NIC2, ACCUM, NIC2	F205W			Prime + Parallel Group 7-8	209.0 Secs X 3 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]	

