



10575 - Lyman alpha morphology of local starburst galaxies

Cycle: 14, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Goran Ostlin (PI)	Stockholm University	
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Dr. Daniel Kunth (CoI)	CNRS, Institute d'Astrophysique de Paris	
Dr. Claus Leitherer (CoI)	Space Telescope Science Institute	
Dr. Miguel Mas-Hesse (CoI)	INTA, Lab. de Astrofisica Espacial y Fisica Fundamental	
Dr. Artashes Petrosian (CoI)	Armenian Academy of Sciences	

VISITS

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(2) ESO350-IG038	ACS/HRC ACS/WFC	2	10-Feb-2006 21:01:27.0	yes
02	(3) NGC6090	ACS/HRC ACS/WFC	2	10-Feb-2006 21:01:38.0	yes
03	(5) SBS0335-052	ACS/HRC ACS/WFC	2	10-Feb-2006 21:01:50.0	yes
04	(1) TOLOLO65	ACS/HRC ACS/WFC	2	10-Feb-2006 21:01:58.0	yes

Proposal 10575 - Overview

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
05	(4) IRAS08339+6517	ACS/HRC	1	10-Feb-2006 21:02:06.0	yes
06	(6) ESO338-IG004	ACS/WFC	1	10-Feb-2006 21:02:10.0	yes

10 Total Orbits Used

ABSTRACT

Our pilot imaging study of 6 local galaxies using ACS/SBC in the cosmologically important Lyman-alpha line has begun to reveal intriguing results. Here we propose ACS/HRC imaging of this sample, the approval of which will allow for a significant increase in the impact of the original study and extend the limits of current understanding of Lyman-alpha escape. With this data we can accurately calibrate our Lyman-alpha line-only images and explore for the first time Lyman-alpha fluxes and equivalent widths in spatially resolved systems. These data would also allow us to test the current models of Lyman-alpha escape mechanisms and investigate possible correlations between Lyman-alpha emission and other local parameters such as age and internal reddening. The addition of high-resolution H-alpha data allows us to quantitatively study the decoupling of Lyman-alpha from non-resonant radiation and spatially explore the destruction and attenuation of Lyman-alpha. The study will go a long way towards resolving the outstanding issues complicating the interpretation of high redshift studies and the use of Lyman-alpha to quantitatively study the distant universe.

OBSERVING DESCRIPTION

To match our ACS/SBC data we need to reach S/N of at least 5 per 2x2 pixel resolution element for a blue surface brightness of 20 mag/arcsec² and an assumed continuum spectral slope of $\beta = -1$. This will insure that in diffuse regions we can reach levels 3 magnitudes fainter by smoothing over regions up to 1x1 arcsec, and allow us to detect extended diffuse Lyman alpha as we did in our study of ESO338-IG04.

The crucial filters for modeling the continuum slope in the UV are F220W, F330W and F435W which combined with our SBC/F140LP data, will allow us to fully exploit our SBC Lyman alpha data for the sample. We then use FR656N to observe the H-alpha emission line with F550M to determine the nearby continuum. A short F814W image is then used to find the continuum slope between F550M and the I-band.

The optimal ACS observing strategy to fully exploit the sensitivity of the WFC, and the UV and high-resolution capabilities of the HRC is to assign

Proposal 10575 - Overview

the observations as follows:

- * HRC: F220W; F330W
- * WFC: F435W; F550M; FR656N

In addition, a short F814W exposure is included in the HRC observations for targets where no I-band image is available in the archive

We assume H α equivalent widths of 100 Angstroms. To reach the required sensitivities as outlined above and in our phase I proposal, we require the following observations (all split observations are dithered using POS-TARG to reduce the overhead of re-pointing the telescope when using patterns):

- * F220W: 1800s (3 x 600s)
- * F330W: 800s (2 x 400s)
- * F435W: 400s (2 x 200s)
- * FR656N: 1200s (2 x 600s)
- * F550M: 600s (2 x 300s)
- * F814W: 100s (1 x 100s)

This can easily be accommodated by 2 orbits: the first using the HRC, obtaining F220W, F330W and F814W; the second using the WFC and obtaining the rest. This is the approach implemented for two targets: ESO350-IG38 (Visit 1) and NGC6090 (Visit 2).

For two other targets (SBS0335-052, visit 3; and Tololo65, visit 4), archival I-band data exist. The 100 second F814W exposure is therefore removed and the time dedicated to the F220W observations.

For one target (IRAS08339+6517, visit 5) a schedulable CVZ exists which we have exploited and included all our observations in the one orbit. Since we cannot change camera, all our observations are performed using the HRC -- exposure times are slightly reduced. (During phase I we found a possible CVZ for NGC6090 but according to the visit planner this is not schedulable.)

The remaining target (ESO338-IG04, visit 6) the UV and I-band data have already been obtained with the ACS and WFPC2. All that remains is to

Proposal 10575 - Overview

obtain H α online (FR656N) and continuum (F550M). We will use the WFC to obtain these images in one orbit.

For all galaxies we have ground-based long-slit spectra covering H α , allowing us to constrain the [NII] contribution within the FR656N bandpass.

Due to the fact that the NGC6090 CVZ could not be scheduled, we require 10 orbits (as was stated in our phase I proposal).

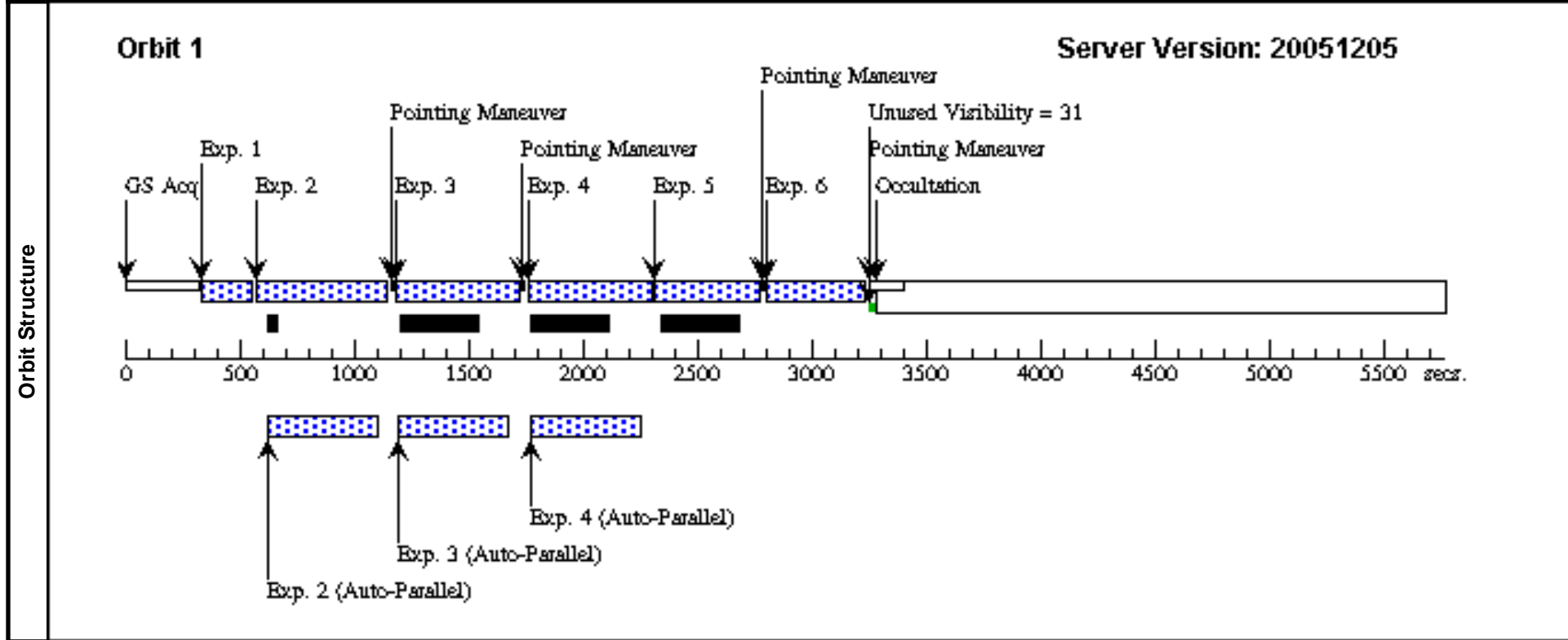
Proposal 10575 - Visit 01 - Lyman alpha morphology of local starburst galaxies

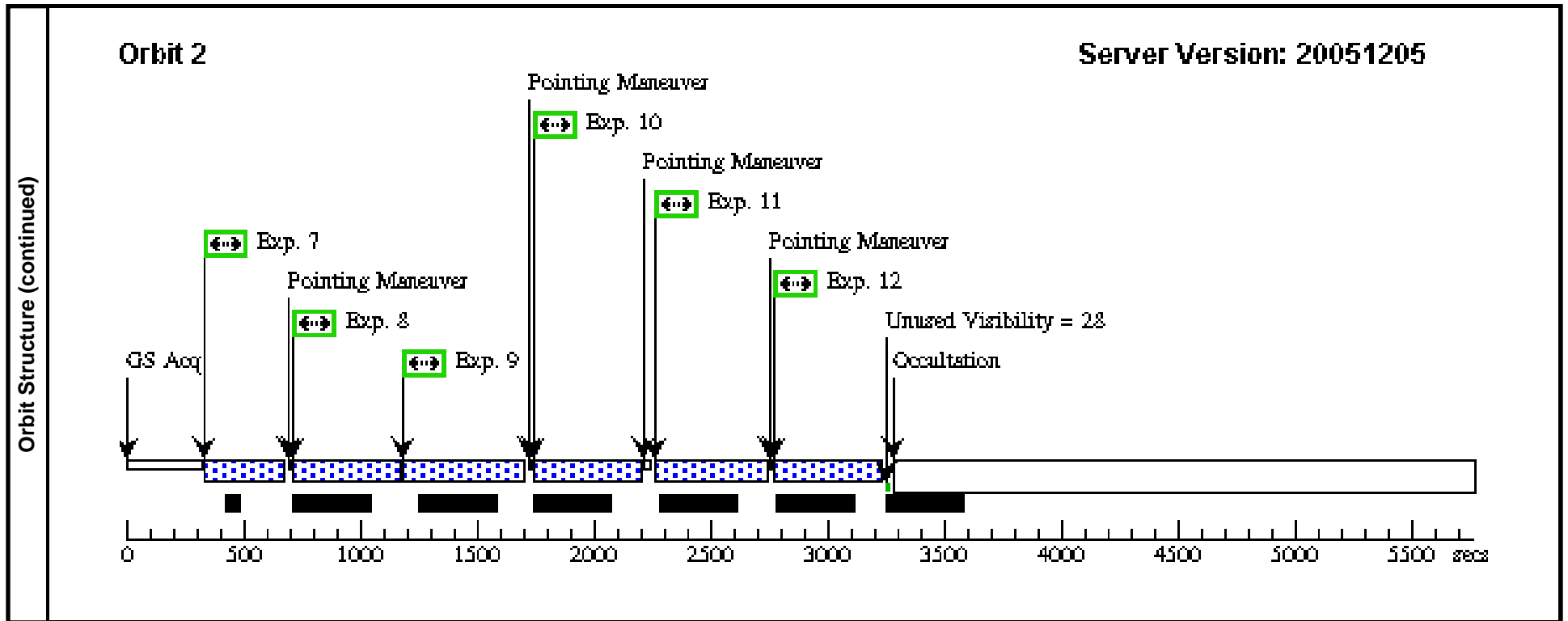
Sat Feb 11 02:02:12 GMT 2006

Visit	Proposal 10575, Visit 01 Diagnostic Status: Warning Scientific Instruments: ACS/WFC, ACS/HRC Special Requirements: (none) Comments: ESO350 -- 2 ORBITS ===== ORBIT 1: ACS/HRC F814W 100s F220W 505+505+506s F330W 400+400s ORBIT 2: ACS/WFC F550M 131+340s F435W 340+340s FR656N 340+340s at 6698Angstroms										
	(Exposure 12 (Visit 01)) Warning: POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(2)	ESO350-IG038	RA: 00 36 52.5000 (9.2187500d) Dec: -33 33 19.00 (-33.55528d) Equinox: J2000 Plate Id: (?)		V=13.5+/-0.1	Coordinate Source: NED					
Comments: This object was generated by the targetselector and retrieved from the NED database.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(2) ESO350-IG038	ACS/HRC, ACCUM, HRC	F814W	CR-SPLIT=NO			100.0 Secs [==>]	[1]	
	2		(2) ESO350-IG038	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO			505.0 Secs [==>]	[1]	
	3		(2) ESO350-IG038	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO	POS TARG -1.89,-0.194			505.0 Secs [==>]	[1]
	4		(2) ESO350-IG038	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO	POS TARG 1.89,0.194			503.0 Secs [==>]	[1]
	5		(2) ESO350-IG038	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO	SAME POS AS 4			400.0 Secs [==>]	[1]
	6		(2) ESO350-IG038	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO	SAME POS AS 1			400.0 Secs [==>]	[1]
	7		(2) ESO350-IG038	ACS/WFC, ACCUM, WFC1	F550M	CR-SPLIT=NO				131.0 Secs [==>]	[2]

Proposal 10575 - Visit 01 - Lyman alpha morphology of local starburst galaxies

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
8	(2) ESO350-IG038	(2) ESO350-IG038	ACS/WFC, ACCUM, WFC1	F550M	CR-SPLIT=NO	POS TARG 0.124,0.084		340.0 Secs [==>]	[2]
9	(2) ESO350-IG038	(2) ESO350-IG038	ACS/WFC, ACCUM, WFC1	F435W	CR-SPLIT=NO	SAME POS AS 8		340.0 Secs [==>]	[2]
10	(2) ESO350-IG038	(2) ESO350-IG038	ACS/WFC, ACCUM, WFC1	F435W	CR-SPLIT=NO	SAME POS AS 7		340.0 Secs [==>]	[2]
11	(2) ESO350-IG038	(2) ESO350-IG038	ACS/WFC, ACCUM, WFC1-MRAMP	FR656N 6698.0 A	CR-SPLIT=NO			340.0 Secs [==>]	[2]
12	(2) ESO350-IG038	(2) ESO350-IG038	ACS/WFC, ACCUM, WFC1-MRAMP	FR656N 6698.0 A	CR-SPLIT=NO	POS TARG 0.124,0.084		340.0 Secs [==>]	[2]





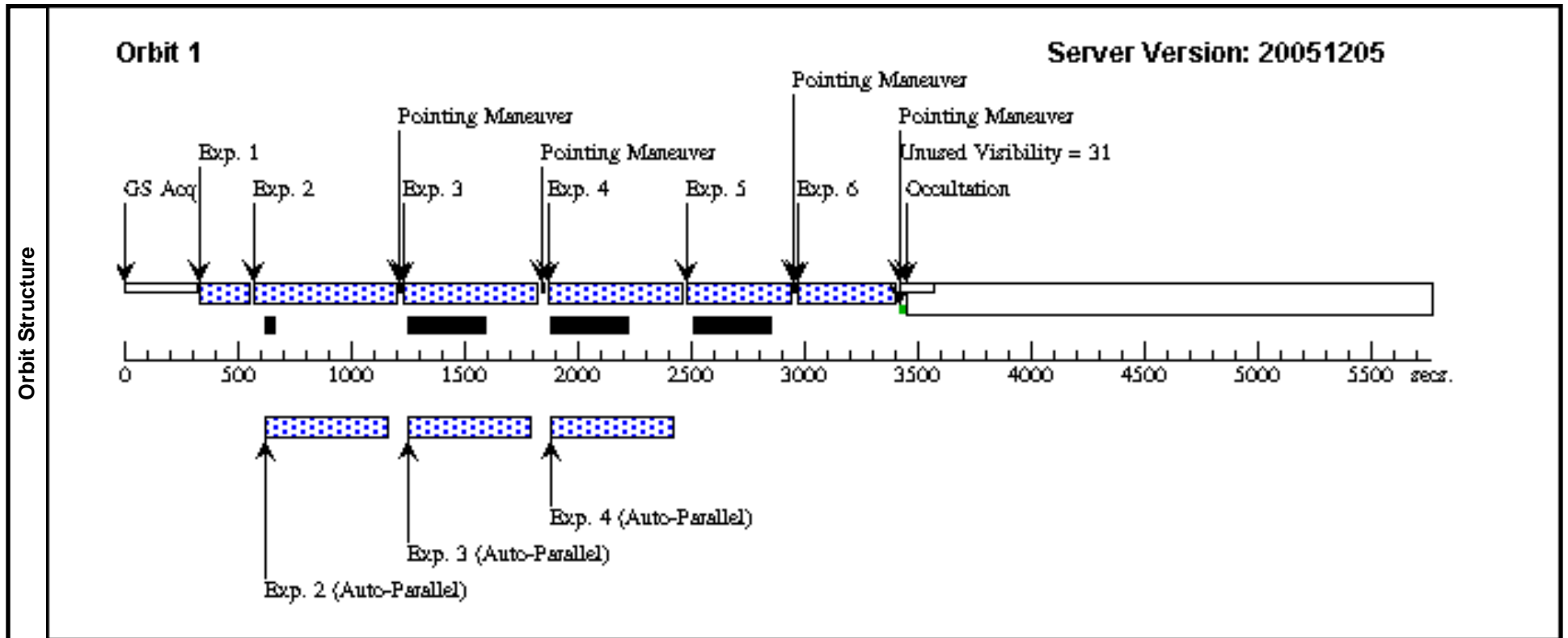
Proposal 10575 - Visit 02 - Lyman alpha morphology of local starburst galaxies

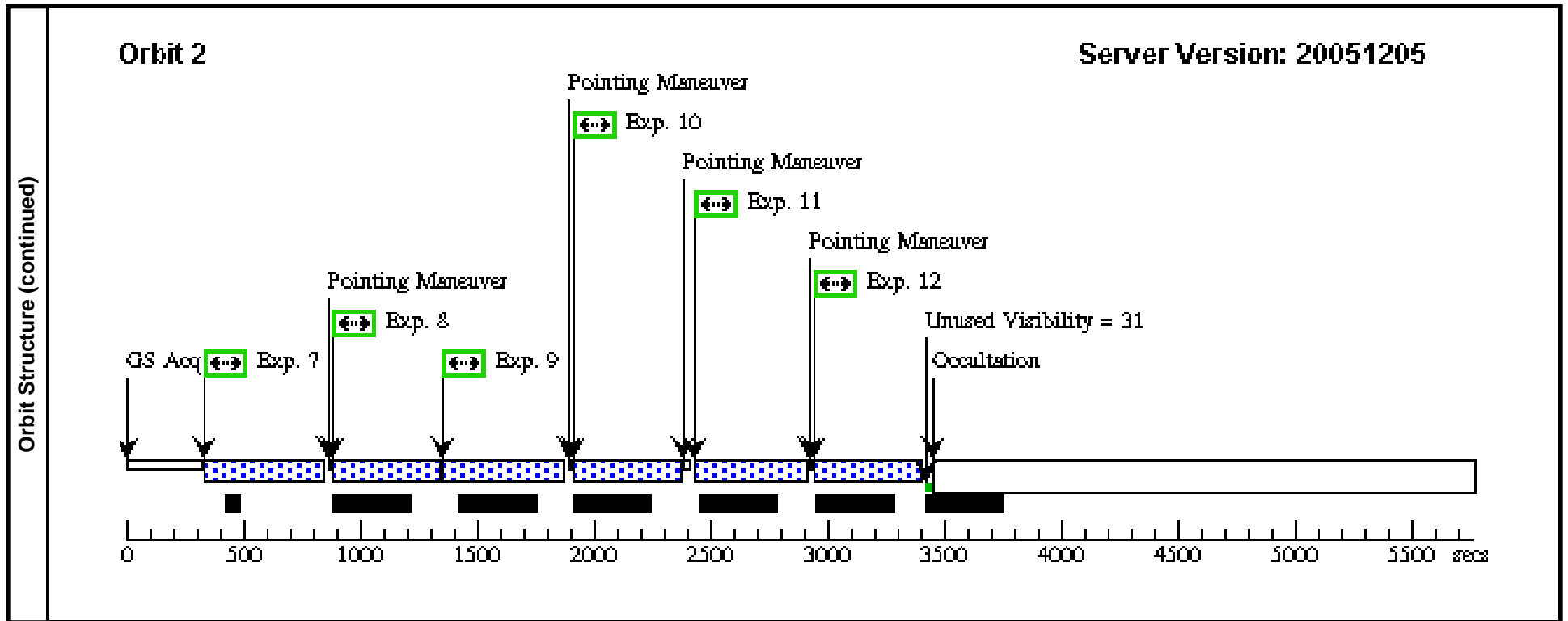
Sat Feb 11 02:02:13 GMT 2006

Visit	<p>Proposal 10575, Visit 02</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: ACS/WFC, ACS/HRC</p> <p>Special Requirements: (none)</p> <p>Comments: NGC6090 -- 2 ORBITS</p> <p>=====</p> <p>ORBIT 1: ACS/HRC F814W 100s F220W 561+561+561s F330W 400+400s</p> <p>ORBIT 2: ACS/WFC F550M 305+340s F435W 340+340s FR656N 340+340s at 6755Angstroms</p>																
	Diagnostics	<p>(Exposure 11 (Visit 02)) Error: WFC is not a valid selection</p> <p>(Exposure 11 (Visit 02)) Error: FR656N is not a valid selection</p> <p>(Exposure 11 (Visit 02)) Error: This attribute cannot have this value due to other choices: Config=ACS/WFC The combination of attributes chosen is illegal.</p> <p>(Exposure 11 (Visit 02)) Error: ACCUM is not a valid selection</p> <p>(Exposure 11 (Visit 02)) Error: This attribute cannot have this value due to other choices: Aperture=WFC This value is by default illegal.</p> <p>(Exposure 11 (Visit 02)) Error: This attribute cannot have this value due to other choices: Spectral_Element=FR656N The combination of attributes chosen is illegal.</p> <p>(Exposure 11 (Visit 02)) Error: This attribute cannot have this value due to other choices: Mode=ACCUM The combination of attributes chosen is illegal.</p> <p>(Exposure 12 (Visit 02)) Error: This attribute cannot have this value due to other choices: Aperture=WFC This value is by default illegal.</p> <p>(Exposure 12 (Visit 02)) Error: FR656N is not a valid selection</p> <p>(Exposure 12 (Visit 02)) Error: This attribute cannot have this value due to other choices: Config=ACS/WFC The combination of attributes chosen is illegal.</p> <p>(Exposure 12 (Visit 02)) Error: WFC is not a valid selection</p> <p>(Exposure 12 (Visit 02)) Error: This attribute cannot have this value due to other choices: Spectral_Element=FR656N The combination of attributes chosen is illegal.</p> <p>(Exposure 12 (Visit 02)) Error: This attribute cannot have this value due to other choices: Mode=ACCUM The combination of attributes chosen is illegal.</p> <p>(Exposure 12 (Visit 02)) Error: ACCUM is not a valid selection</p> <p>(Exposure 12 (Visit 02)) Warning: POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.</p>															
Fixed Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>NGC6090</td> <td>RA: 16 11 40.7000 (242.9195833d) Dec: +52 27 24.00 (52.45667d) Equinox: J2000 Plate Id: (?)</td> <td></td> <td>V=14.6+/-0.1</td> <td>Coordinate Source: NED</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	NGC6090	RA: 16 11 40.7000 (242.9195833d) Dec: +52 27 24.00 (52.45667d) Equinox: J2000 Plate Id: (?)		V=14.6+/-0.1
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<p>Comments: This object was generated by the targetselector and retrieved from the NED database.</p>																	

Proposal 10575 - Visit 02 - Lyman alpha morphology of local starburst galaxies

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
Exposures	1		(3) NGC6090	ACS/HRC, ACCUM, HRC	F814W	CR-SPLIT=NO			100.0 Secs	[==>]	[1]
	2		(3) NGC6090	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO			561.0 Secs	[==>]	[1]
	3		(3) NGC6090	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO	POS TARG -1.89,-0.194		561.0 Secs	[==>]	[1]
	4		(3) NGC6090	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO	POS TARG 1.89,0.194		561.0 Secs	[==>]	[1]
	5		(3) NGC6090	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO	SAME POS AS 4		400.0 Secs	[==>]	[1]
	6		(3) NGC6090	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO	SAME POS AS 1		400.0 Secs	[==>]	[1]
	7		(3) NGC6090	ACS/WFC, ACCUM, WFC1	F550M	CR-SPLIT=NO			305.0 Secs	[==>]	[2]
	8		(3) NGC6090	ACS/WFC, ACCUM, WFC1	F550M	CR-SPLIT=NO	POS TARG 0.124,0.084		340.0 Secs	[==>]	[2]
	9		(3) NGC6090	ACS/WFC, ACCUM, WFC1	F435W	CR-SPLIT=NO	SAME POS AS 8		340.0 Secs	[==>]	[2]
	10		(3) NGC6090	ACS/WFC, ACCUM, WFC1	F435W	CR-SPLIT=NO	SAME POS AS 7		340.0 Secs	[==>]	[2]
	11		(3) NGC6090	ACS/WFC, ACCUM, WFC	FR656N 6755.0 A	CR-SPLIT=NO			340.0 Secs	[==>]	[2]
	12		(3) NGC6090	ACS/WFC, ACCUM, WFC	FR656N 6755.0 A	CR-SPLIT=NO	POS TARG 0.124,0.084		340.0 Secs	[==>]	[2]





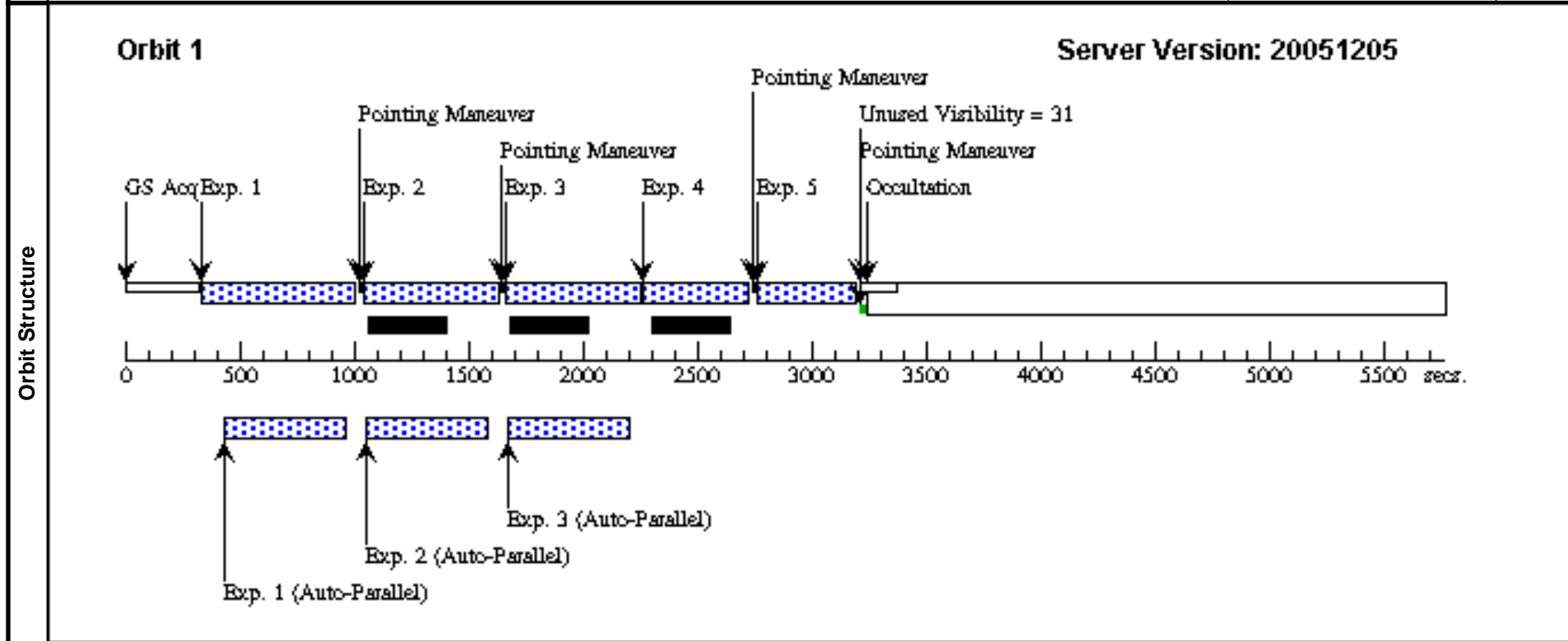
Proposal 10575 - Visit 03 - Lyman alpha morphology of local starburst galaxies

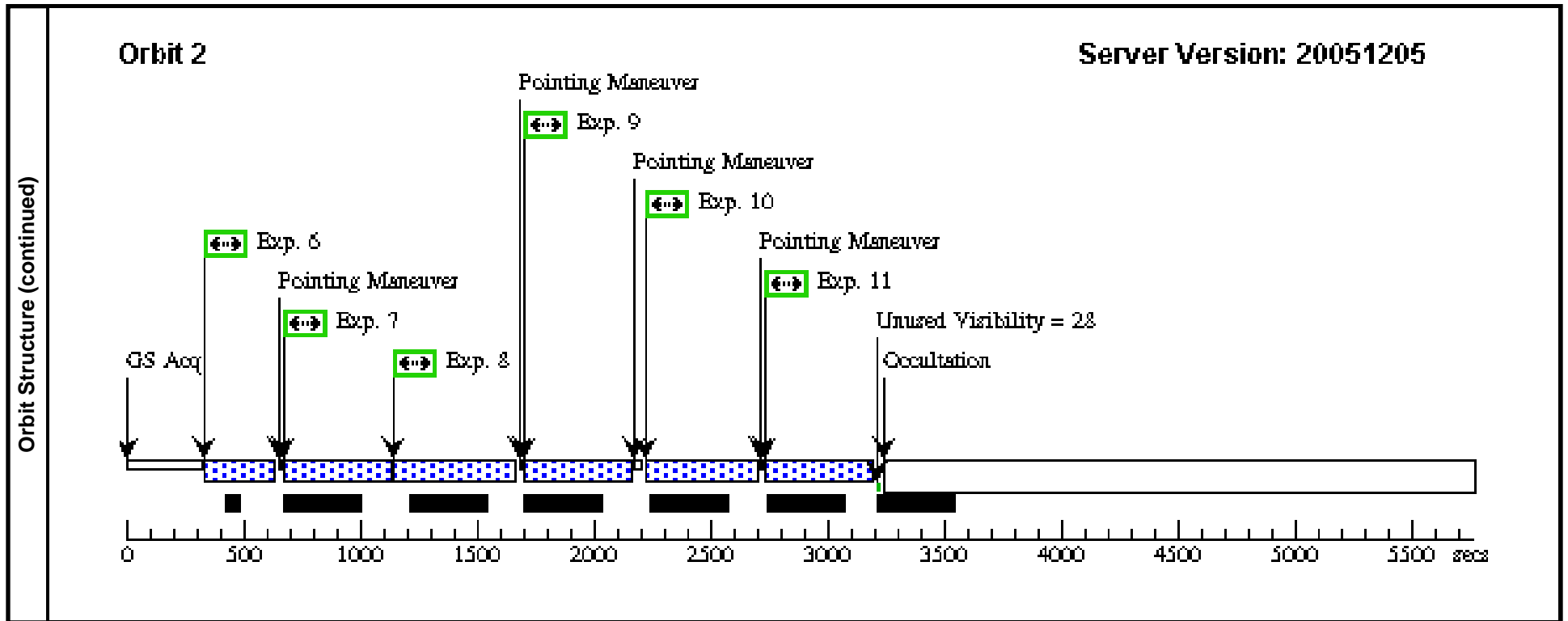
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Visit	<p>Proposal 10575, Visit 03</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC, ACS/HRC</p> <p>Special Requirements: (none)</p> <p>Comments: SBS0335 -- 2 ORBITS =====</p> <p>ORBIT 1: ACS/HRC -- NO F814W observation. F220W 553+553+554s F330W 400+400s</p> <p>ORBIT 2: ACS/WFC F550M 90+340s F435W 340+340s FR656N 340+340s at 6652Angstroms</p>																				
	<p>(Exposure 11 (Visit 03)) Warning: POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.</p>																				
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit											
	1	(5) SBS0335-052	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO				553.0 Secs [=>]	[1]											
	2	(5) SBS0335-052	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO	POS TARG -1.89,-0.194			553.0 Secs [=>]	[1]											
	3	(5) SBS0335-052	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO	POS TARG 1.89,0.194			554.0 Secs [=>]	[1]											
	4	(5) SBS0335-052	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO	SAME POS AS 3			400.0 Secs [=>]	[1]											
	5	(5) SBS0335-052	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO	SAME POS AS 1			400.0 Secs [=>]	[1]											
	6	(5) SBS0335-052	ACS/WFC, ACCUM, WFC1	F550M	CR-SPLIT=NO				90.0 Secs [=>]	[2]											
	7	(5) SBS0335-052	ACS/WFC, ACCUM, WFC1	F550M	CR-SPLIT=NO	POS TARG 0.124,0.084			340.0 Secs [=>]	[2]											

Proposal 10575 - Visit 03 - Lyman alpha morphology of local starburst galaxies

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		8	(5) SBS0335-052	(5) SBS0335-052	ACS/WFC, ACCUM, WFC1	F435W	CR-SPLIT=NO	SAME POS AS 7		340.0 Secs [==>]
	9	(5) SBS0335-052	(5) SBS0335-052	ACS/WFC, ACCUM, WFC1	F435W	CR-SPLIT=NO	SAME POS AS 6		340.0 Secs [==>]	[2]
	10	(5) SBS0335-052	(5) SBS0335-052	ACS/WFC, ACCUM, WFC1-MRAMP	FR656N 6652.0 A	CR-SPLIT=NO			340.0 Secs [==>]	[2]
	11	(5) SBS0335-052	(5) SBS0335-052	ACS/WFC, ACCUM, WFC1-MRAMP	FR656N 6652.0 A	CR-SPLIT=NO	POS TARG 0.124,0.084		340.0 Secs [==>]	[2]

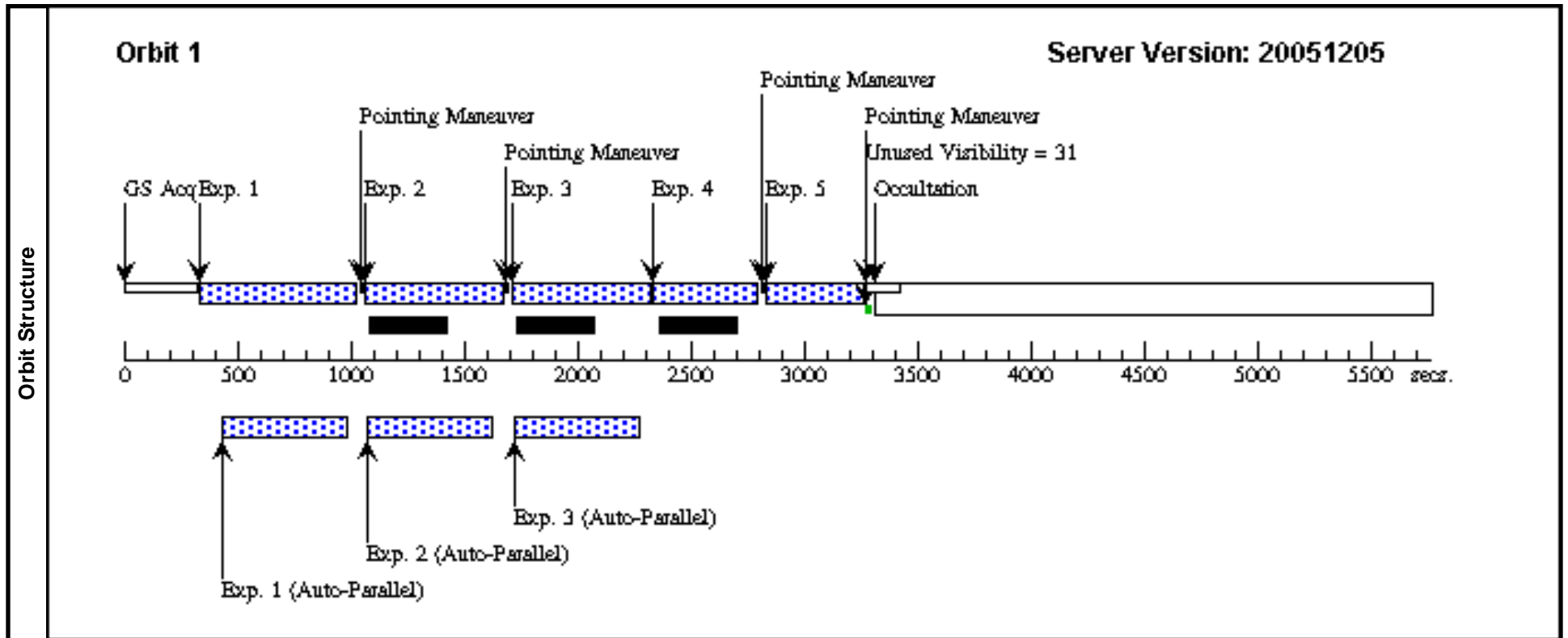


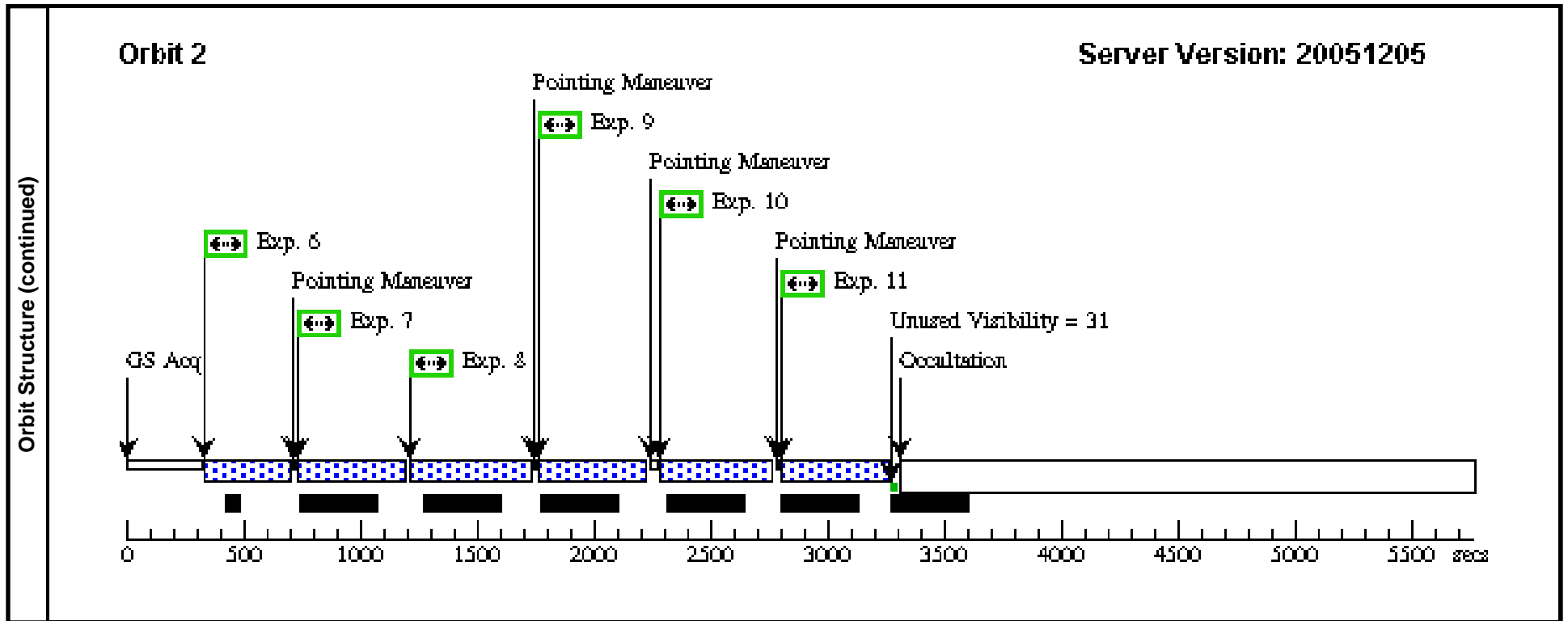


Visit	<p>Proposal 10575, Visit 04</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: ACS/WFC, ACS/HRC</p> <p>Special Requirements: (none)</p> <p>Comments: Tol65 -- 2 ORBITS</p> <p>=====</p> <p>ORBIT 1: ACS/HRC -- NO F814W observation. F220W 576+576+576s F330W 400+400s</p> <p>ORBIT 2: ACS/WFC F550M 158+340s F435W 340+340s FR656N 340+340s at 6622Angstroms</p>																
	<p>(Exposure 10 (Visit 04)) Error: This attribute cannot have this value due to other choices: Spectral_Element=FR656N The combination of attributes chosen is illegal.</p> <p>(Exposure 10 (Visit 04)) Error: FR656N is not a valid selection</p> <p>(Exposure 10 (Visit 04)) Error: This attribute cannot have this value due to other choices: Config=ACS/WFC The combination of attributes chosen is illegal.</p> <p>(Exposure 10 (Visit 04)) Error: This attribute cannot have this value due to other choices: Mode=ACCUM The combination of attributes chosen is illegal.</p> <p>(Exposure 10 (Visit 04)) Error: WFC is not a valid selection</p> <p>(Exposure 10 (Visit 04)) Error: This attribute cannot have this value due to other choices: Aperture=WFC This value is by default illegal.</p> <p>(Exposure 10 (Visit 04)) Error: ACCUM is not a valid selection</p> <p>(Exposure 11 (Visit 04)) Error: This attribute cannot have this value due to other choices: Config=ACS/WFC The combination of attributes chosen is illegal.</p> <p>(Exposure 11 (Visit 04)) Error: WFC is not a valid selection</p> <p>(Exposure 11 (Visit 04)) Error: This attribute cannot have this value due to other choices: Aperture=WFC This value is by default illegal.</p> <p>(Exposure 11 (Visit 04)) Error: This attribute cannot have this value due to other choices: Spectral_Element=FR656N The combination of attributes chosen is illegal.</p> <p>(Exposure 11 (Visit 04)) Error: This attribute cannot have this value due to other choices: Mode=ACCUM The combination of attributes chosen is illegal.</p> <p>(Exposure 11 (Visit 04)) Error: FR656N is not a valid selection</p> <p>(Exposure 11 (Visit 04)) Error: ACCUM is not a valid selection</p> <p>(Exposure 11 (Visit 04)) Warning: POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.</p>																
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<p>Comments: This object was generated by the targetselector and retrieved from the NED database.</p>																	

Proposal 10575 - Visit 04 - Lyman alpha morphology of local starburst galaxies

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) TOLOLO65	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO			576.0 Secs [==>]	[1]
	2		(1) TOLOLO65	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO	POS TARG -1.89,-0.194		576.0 Secs [==>]	[1]
	3		(1) TOLOLO65	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO	POS TARG 1.89,0.194		576.0 Secs [==>]	[1]
	4		(1) TOLOLO65	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO	SAME POS AS 3		400.0 Secs [==>]	[1]
	5		(1) TOLOLO65	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO	SAME POS AS 1		400.0 Secs [==>]	[1]
	6		(1) TOLOLO65	ACS/WFC, ACCUM, WFC1	F550M	CR-SPLIT=NO			158.0 Secs [==>]	[2]
	7		(1) TOLOLO65	ACS/WFC, ACCUM, WFC1	F550M	CR-SPLIT=NO	POS TARG 0.124,0.084		340.0 Secs [==>]	[2]
	8		(1) TOLOLO65	ACS/WFC, ACCUM, WFC1	F435W	CR-SPLIT=NO	SAME POS AS 7		340.0 Secs [==>]	[2]
	9		(1) TOLOLO65	ACS/WFC, ACCUM, WFC1	F435W	CR-SPLIT=NO	SAME POS AS 6		340.0 Secs [==>]	[2]
	10		(1) TOLOLO65	ACS/WFC, ACCUM, WFC	FR656N 6622.0 A	CR-SPLIT=NO			340.0 Secs [==>]	[2]
11		(1) TOLOLO65	ACS/WFC, ACCUM, WFC	FR656N 6622.0 A	CR-SPLIT=NO	POS TARG 0.124,0.084		340.0 Secs [==>]	[2]	





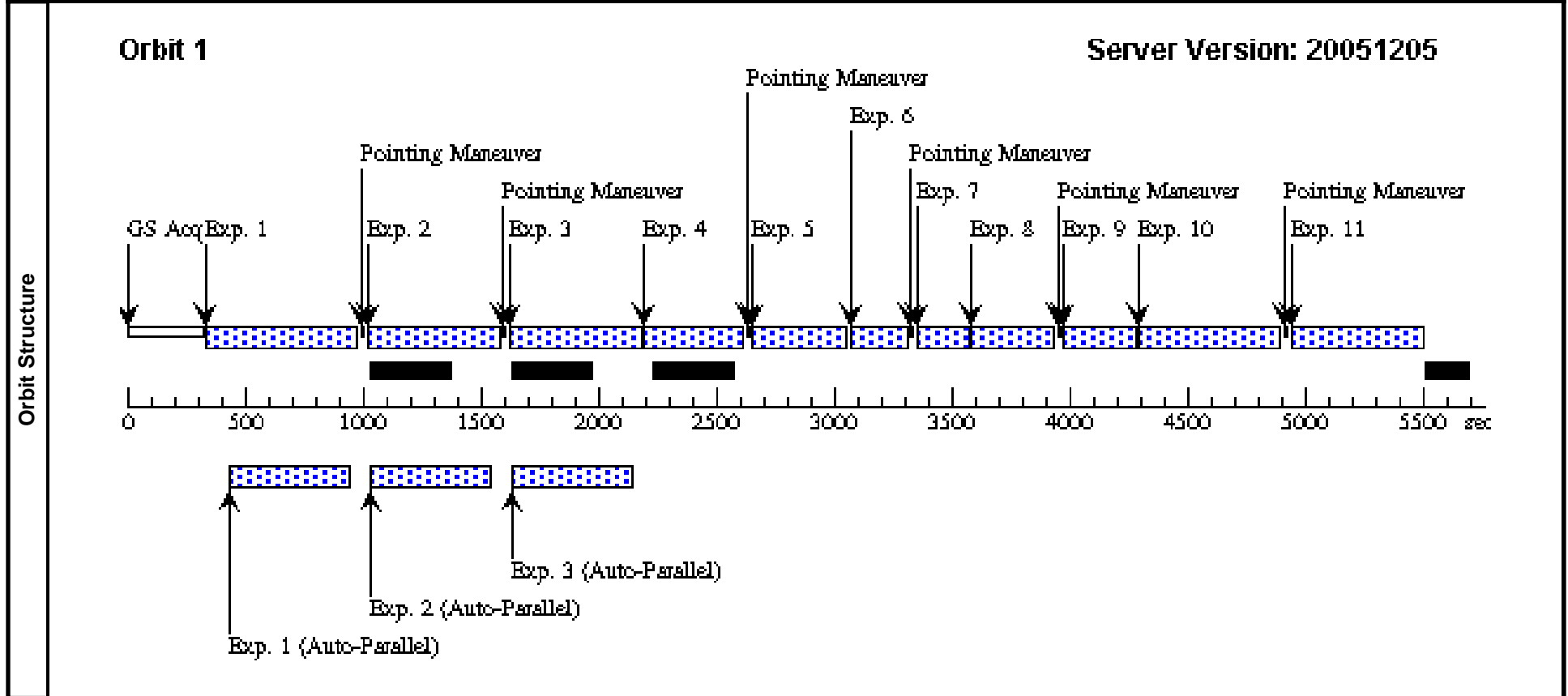
Proposal 10575 - Visit 05 - Lyman alpha morphology of local starburst galaxies

Sat Feb 11 02:02:16 GMT 2006

Visit	Proposal 10575, Visit 05 Diagnostic Status: Warning Scientific Instruments: ACS/HRC Special Requirements: CVZ Comments: IRAS08339 -- 1 ORBIT ***CVZ*** ===== ORBIT 1: ACS/HRC F814W 100s F220W 500+500+500s F330W 380+380s F550M 300+300s F435W 200+200s FR656N 570+570s at 6688Angstroms									
	(Exposure 11 (Visit 05)) Warning: POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
Diagnostics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	IRAS08339+6517	RA: 08 38 23.2000 (129.5966667d) Dec: +65 07 15.00 (65.12083d) Equinox: J2000 Plate Id: (?)		V=14.16+/-0.1	Coordinate Source: NED				
Comments: This object was generated by the targetselector and retrieved from the NED database.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) IRAS08339+6517	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO			530.0 Secs	
			7						[==>]	[1]
	2		(4) IRAS08339+6517	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO	POS TARG -1.89,-0.194		530.0 Secs	
			7						[==>]	[1]
	3		(4) IRAS08339+6517	ACS/HRC, ACCUM, HRC	F220W	CR-SPLIT=NO	POS TARG 1.89,0.194		530.0 Secs	
			7						[==>]	[1]
	4		(4) IRAS08339+6517	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO	SAME POS AS 3		365.0 Secs	
		7						[==>]	[1]	
5		(4) IRAS08339+6517	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO	SAME POS AS 1		365.0 Secs		
		7						[==>]	[1]	
6		(4) IRAS08339+6517	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=NO	SAME POS AS 1		180.0 Secs		
		7						[==>]	[1]	
7		(4) IRAS08339+6517	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=NO	SAME POS AS 3		180.0 Secs		
		7						[==>]	[1]	

Proposal 10575 - Visit 05 - Lyman alpha morphology of local starburst galaxies

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	8		(4) 7	IRAS08339+651	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO	SAME POS AS 3		280.0 Secs [==>]
9		(4) 7	IRAS08339+651	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO	SAME POS AS 1		280.0 Secs [==>]	[1]
10		(4) 7	IRAS08339+651	ACS/HRC, ACCUM, HRC	FR656N 6688.0 A	CR-SPLIT=NO			532.0 Secs [==>]	[1]
11		(4) 7	IRAS08339+651	ACS/HRC, ACCUM, HRC	FR656N 6688.0 A	CR-SPLIT=NO	POS TARG 1.89,0.1 94		532.0 Secs [==>]	[1]



Proposal 10575 - Visit 06 - Lyman alpha morphology of local starburst galaxies

Sat Feb 11 02:02:17 GMT 2006

Visit	Proposal 10575, Visit 06 Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) Comments: ESO338 -- 1 ORBIT ===== ORBIT 1: ACS/WFC F550M 30+400+400s FR656N 607+607s at 6625Angstroms									
	Diagnosics (Exposure 2 (Pattern 2-2)) Warning: POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=34.2 Angle Between Sides= Center Pattern=false				(2)			
(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.149 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=34.2 Angle Between Sides= Center Pattern=false				(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(6)	ESO338-IG004	RA: 19 27 58.2000 (291.9925000d) Dec: -41 34 32.00 (-41.57556d) Equinox: J2000 Plate Id: (?)			V=13.3+/-0.1	Coordinate Source: NED			
Comments: This object was generated by the targetselector and retrieved from the NED database.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(6) ESO338-IG004	ACS/WFC, ACCUM, WFC1	F550M	CR-SPLIT=NO	Pattern 1-1 (2)	400.0 Secs [=>30.0 Secs (Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]		

Proposal 10575 - Visit 06 - Lyman alpha morphology of local starburst galaxies

Exposures (continued)	#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	2	(6) ESO338-IG004	ACS/WFC, ACCUM, WFC1-MRAMP	FR656N 6625.0 A	CR-SPLIT=NO	Pattern 2-2 (1)	607.0 Secs [=>(Pattern 1)] [=>(Pattern 2)]	[1]		

