



12265 - Determining the Physical Nature of a Unique Giant Ly α Emitter at $z=6.595$

Cycle: 18, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> | <i>E-Mail</i> |
|------------------------------|---|--------------------------------------|
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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) Z7-GIANTLAE | WFC3/IR | 3 | 15-Sep-2010 21:04:29.0 | yes |
| 51 | (1) Z7-GIANTLAE | WFC3/IR | 1 | 15-Sep-2010 21:04:40.0 | yes |
| 02 | (1) Z7-GIANTLAE | WFC3/IR | 3 | 15-Sep-2010 21:04:48.0 | yes |
| 52 | (1) Z7-GIANTLAE | WFC3/IR | 3 | 15-Sep-2010 21:04:56.0 | yes |
| 03 | (1) Z7-GIANTLAE | WFC3/IR | 3 | 15-Sep-2010 21:05:11.0 | yes |
| 04 | (1) Z7-GIANTLAE | WFC3/IR | 3 | 15-Sep-2010 21:05:26.0 | yes |
| 05 | (1) Z7-GIANTLAE | WFC3/IR | 3 | 15-Sep-2010 21:05:35.0 | yes |
| 06 | (1) Z7-GIANTLAE | WFC3/IR | 3 | 15-Sep-2010 21:05:48.0 | yes |

22 Total Orbits Used

ABSTRACT

We propose deep WFC3/IR imaging for a giant Ly α emitter (LAE) with a Keck spectroscopic redshift of $z=6.595$ discovered by extensive narrow-band

imaging with Subaru in the SXDS-UKIDSS/UDS field. This remarkable object is unique in many respects including its large stellar mass and luminous nebula which extends over 17 kpc; no equivalent source has been found in other surveys. The nature of this rare object is unclear. Fundamental to progress is determining the origin of star formation in such an early massive object; if the age of the stellar population is short we are likely witnessing a special moment in the formation history of a massive galaxy. The heating source for the nebula is also unclear; options include intense star formation, the infall of cold gas onto a dark halo or shock heating from a merger. We will take deep broad-band (F125W and F160W) images and an intermediate-band (F098M) image which will be analyzed in conjunction with ultra-deep IRAC 3.6 and 4.5 micron data being taken by the Spitzer/SEDS project. These data will enable us to constrain the star formation rate and stellar age. Moreover, the UV continuum morphology and Ly α -line distribution will be investigated for evidence of a major merger, cold accretion, or hot bubbles associated with outflows. We will address the physical origin of the remarkable object observed at an epoch where massive galaxies are thought to begin their assembly.

OBSERVING DESCRIPTION

We will carry out WFC3/IR observations for our giant LAE with F125W, F160W, and F098M filters. With our 18 orbits, we will spend observing time equivalent to 5, 7, and 6 orbits for F125W, F160W, and F098M bands, respectively, which has been approved in the phase I. This 18-orbit program is composed of 6 visits that consist of 3 orbits. Because we aim to obtain deep images with a good PSF resampling, we perform 1 band (2 bands at most) observations in one visit with 4-point dither of WFC3-IR-DITHER-BOX. This strategy will accomplish subpixel sampling accurately without large offsets made by pointing repeatability of different visits. If there are 3 (or 2) orbits repeating the 4-point dither in one visit, we give 1/4-pixel offsets of (+2.75,+2.75)pix for the second orbit, and (-2.75,+2.25)pix for the third orbit. Moreover, if there is another set of the 3-orbit visit for the same band, we provide another set of 1/4-pixel offsets of (+2.75,-2.75)pix and (-2.75,-2.25)pix for the second and third orbits, respectively, in the visit. Although any visit orientations can be taken, but all of our visits should have the same visit orientation to realize a good subpixel sampling. We

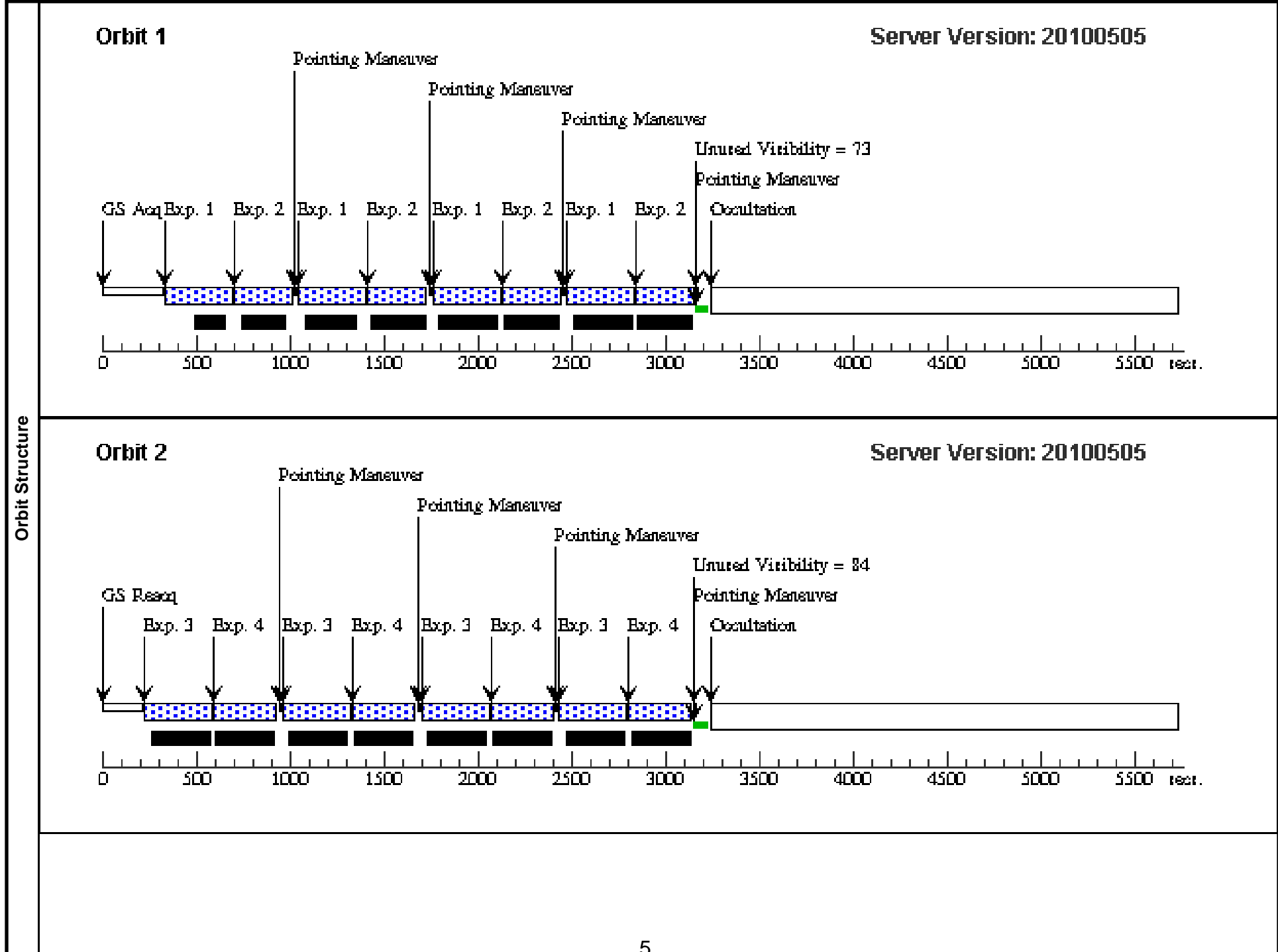
Proposal 12265 (STScI Edit Number: 0, Created: Wednesday, September 15, 2010 8:05:53 PM EST) - Overview

have chosen SPARS25 for F125W and F160W bands and SPARS50 for F098M band, following the WFC3 instrument handbook. To avoid over runs of orbit visibility, NSAMP is not 15, but 13-14. We think that these integration time will provide background limited images. Our field includes a bright star that is located about 48" away from our target. The brightness of the star is $6.8e7$, $4.6e7$, and $1.5e8$ electrons in F125W, F160W, and F098M, respectively. We assume that the bright star gives no serious effects, such as ghost, on our target.

Proposal 12265 (STScI Edit Number: 0, Created: Wednesday, September 15, 2010 8:05:53 PM EST) - Overview

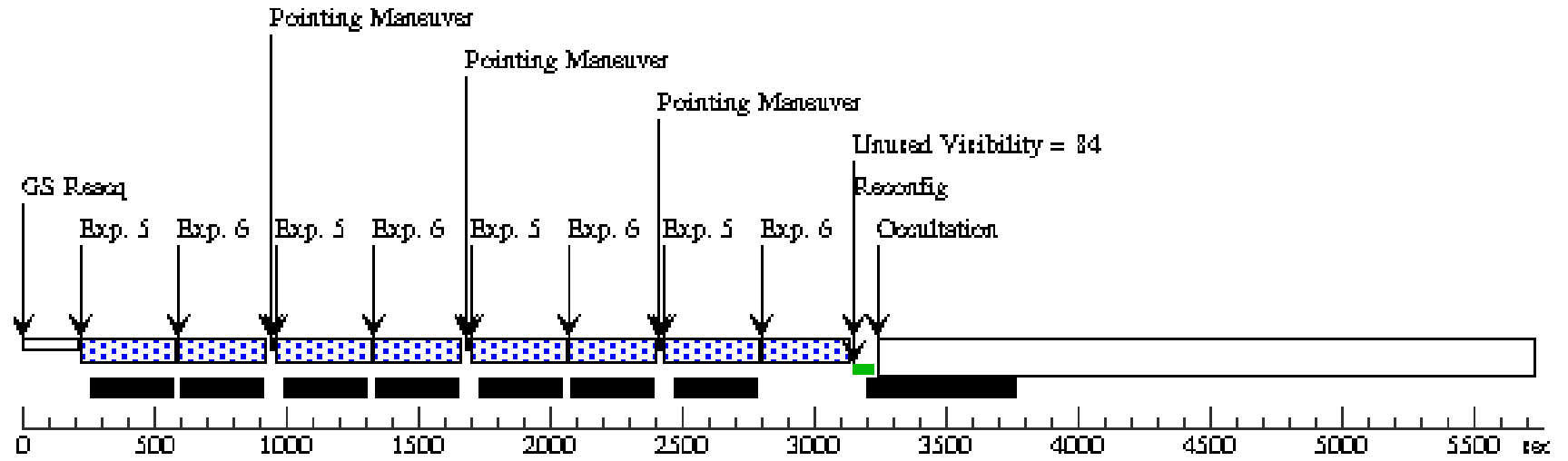
Thu Sep 16 01:05:54 GMT 2010

| Visit | Proposal 12265, Visit 01, failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) Comments: F125Wx3 orbits | | | | | | | | | |
|---------------|--|--|---|--------------------------|--|--------------------------------|------------------------------|-------------------------|--|-------|
| | Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | | | |
| | (1) | Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365 | Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false | | (1-2), (3-4), (5-6) | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (1) | Z7-GIANTLAE | RA: 02 17 57.5630 (34.4898458d) Dec: -05 08 44.45 (-5.14568d) Equinox: J2000 | | V=(?) z'=25.5+/-0.3 (including Ly α emission and Gunn-Peterson trough) | Reference Frame: ICRS | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | F125W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F125W | SAMP-SEQ=SPARS 25; NSAMP=14 | | Pattern 1, Exps 1-2 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [1] |
| | 2 | F125W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F125W | SAMP-SEQ=SPARS 25; NSAMP=13 | | Pattern 1, Exps 1-2 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [1] |
| | 3 | F125W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F125W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG +0.3726 ,+0.3330 | Pattern 1, Exps 3-4 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [2] |
| | 4 | F125W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F125W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG +0.3726 ,+0.3330 | Pattern 1, Exps 3-4 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [2] |
| | 5 | F125W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F125W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG -0.3726 +0.2725 | Pattern 1, Exps 5-6 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [3] |
| | 6 | F125W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F125W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG -0.3726 +0.2725 | Pattern 1, Exps 5-6 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [3] |



Orbit 3

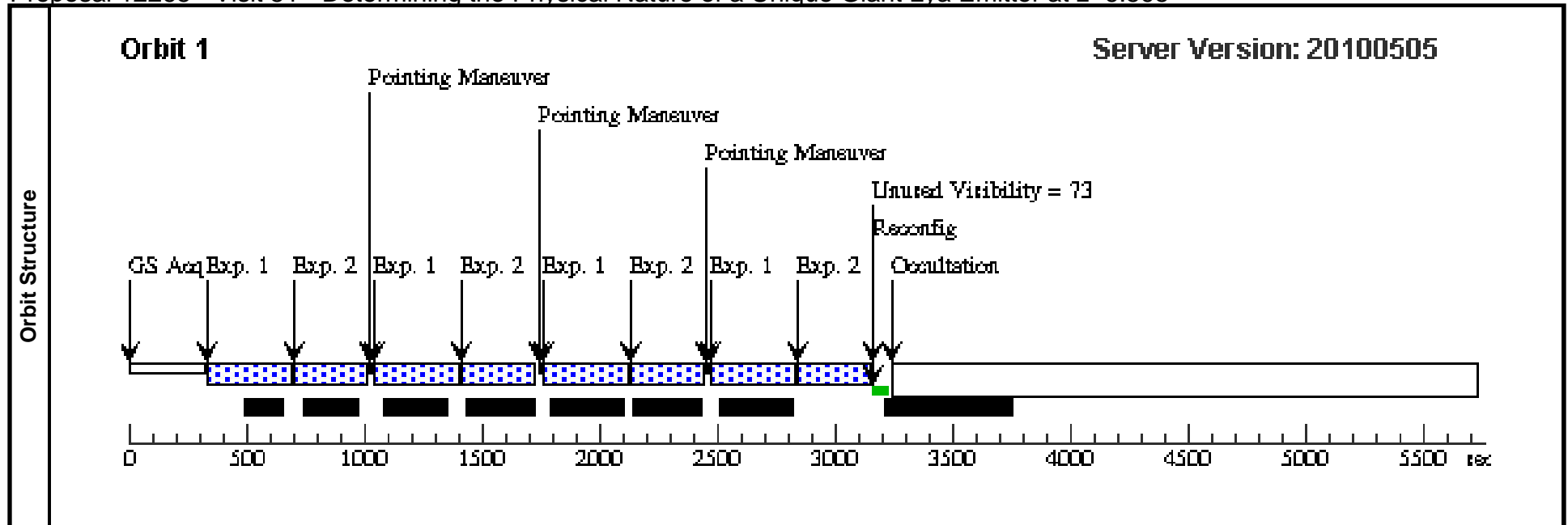
Server Version: 20100505



Proposal 12265 - Visit 01 - Determining the Physical Nature of a Unique Giant Lya Emitter at z=6.595

Thu Sep 16 01:05:55 GMT 2010

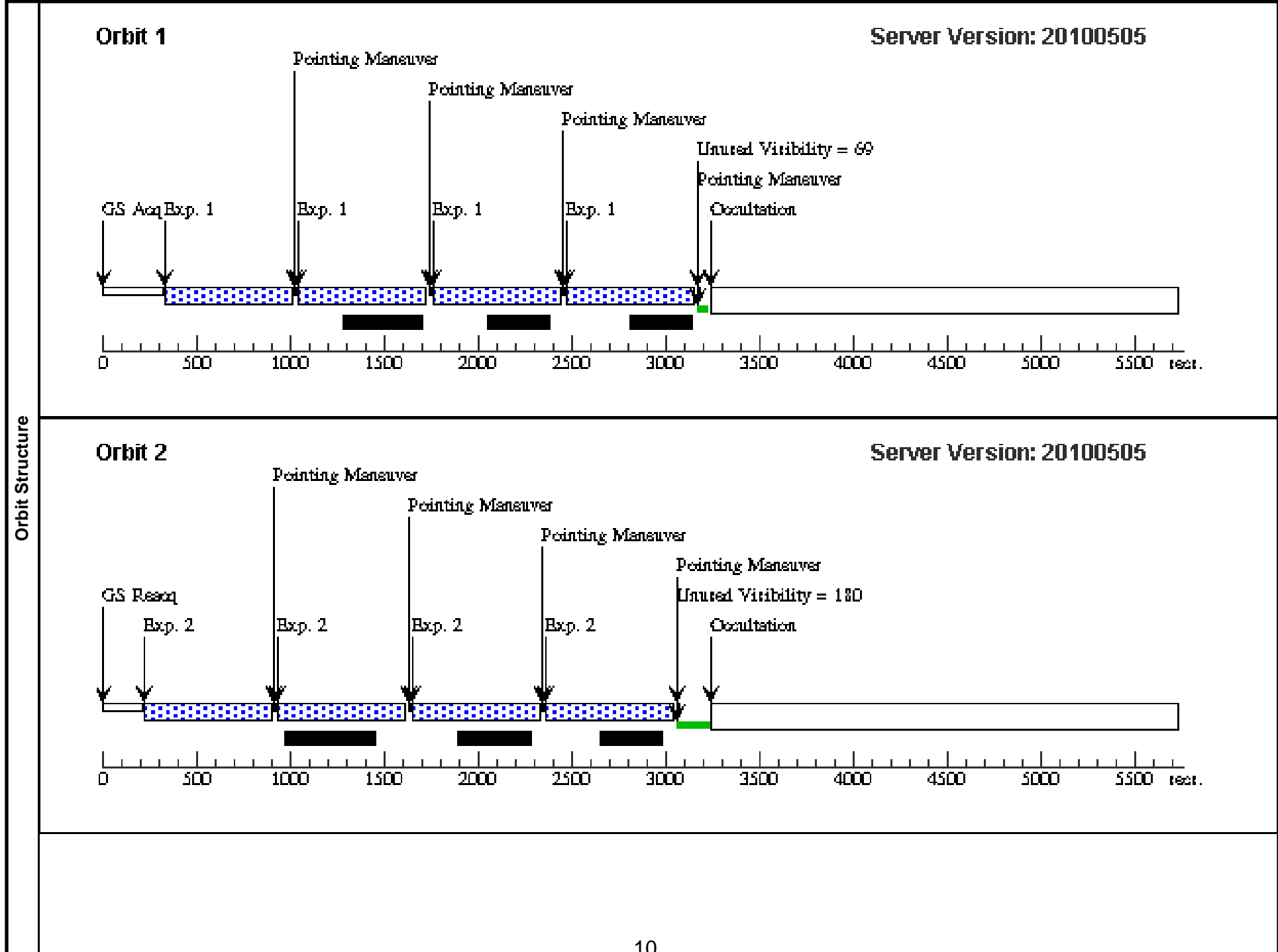
| Visit | Proposal 12265, Visit 51 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01 Comments: F125Wx3 orbits | | | | | | | | | |
|---------------|---|--|---|--------------------------|--|-----------------------------------|------------------------------|--|--|-------|
| | Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | | | |
| | (1) | Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365 | Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false | | (1-2) | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (1) | Z7-GIANTLAE | RA: 02 17 57.5630 (34.4898458d) Dec: -05 08 44.45 (-5.14568d) Equinox: J2000 | | V=(?) z'=25.5+/-0.3 (including Lya emission and Gunn-Peterson trough) | Reference Frame: ICRS | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | F125W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F125W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG -0.3726, +0.2725 | Pattern 1, Exps 1-2 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [1] |
| 2 | F125W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F125W | SAMP-SEQ=SPARS 25; NSAMP=13 | POS TARG -0.3726, +0.2725 | Pattern 1, Exps 1-2 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [1] | |



Proposal 12265 - Visit 51 - Determining the Physical Nature of a Unique Giant Lya Emitter at z=6.595

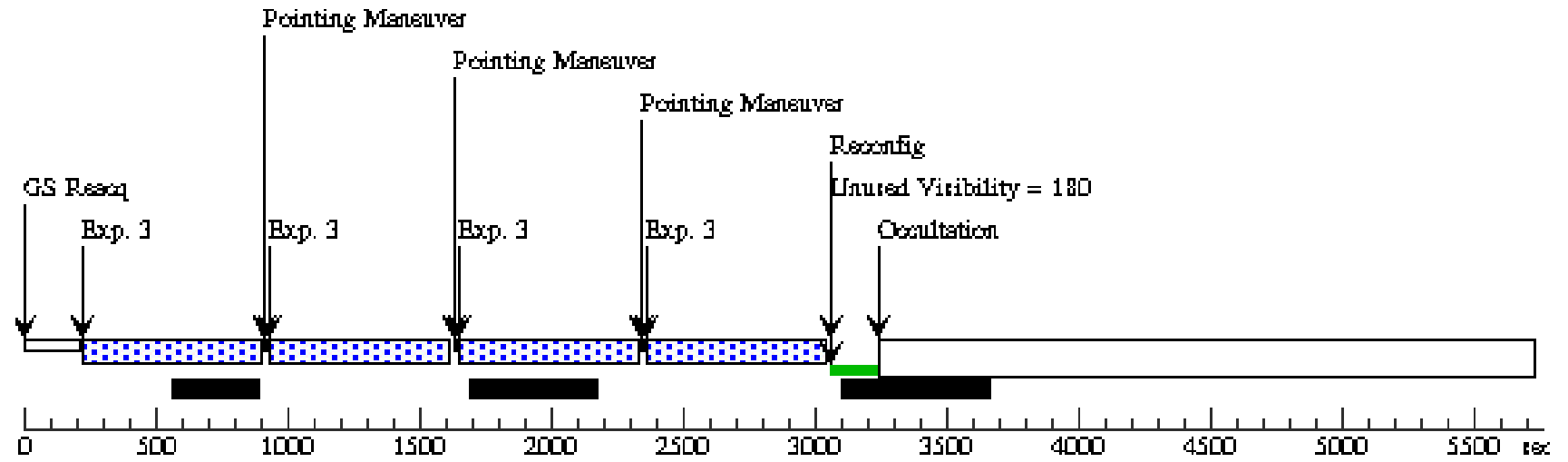
Thu Sep 16 01:05:56 GMT 2010

| Visit | Proposal 12265, Visit 02, failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01 Comments: F098Mx3 orbits | | | | | | | | | |
|---------------|---|-------------|--|---|--|--------------------------------|---------------------------|-------------------------|--|-------|
| | Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | | | |
| | | (1) | Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365 | Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false | | (1), (2), (3) | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (1) | Z7-GIANTLAE | RA: 02 17 57.5630 (34.4898458d) Dec: -05 08 44.45 (-5.14568d) Equinox: J2000 | | V=(?) z'=25.5+/-0.3 (including Lya emission and Gunn-Peterson trough) | Reference Frame: ICRS | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | F098M | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F098M | SAMP-SEQ=SPARS 50; NSAMP=14 | | Pattern 1, Exps 1-1 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [1] |
| | 2 | F098M | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F098M | SAMP-SEQ=SPARS 50; NSAMP=14 | POS TARG +0.3726 ,+0.3330 | Pattern 1, Exps 2-2 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [2] |
| | 3 | F098M | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F098M | SAMP-SEQ=SPARS 50; NSAMP=14 | POS TARG -0.3726 ,+0.2725 | Pattern 1, Exps 3-3 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [3] |



Orbit 3

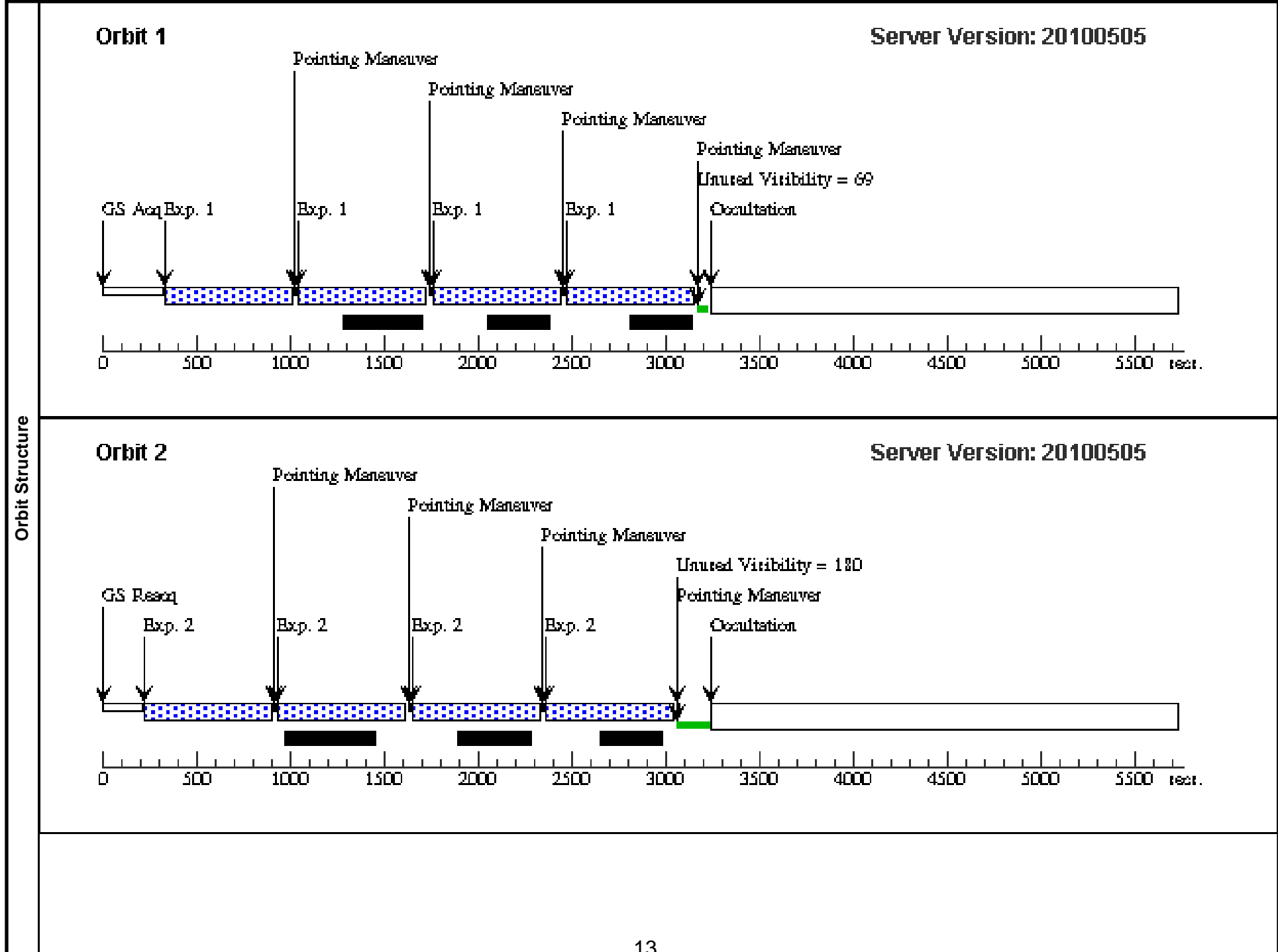
Server Version: 20100505

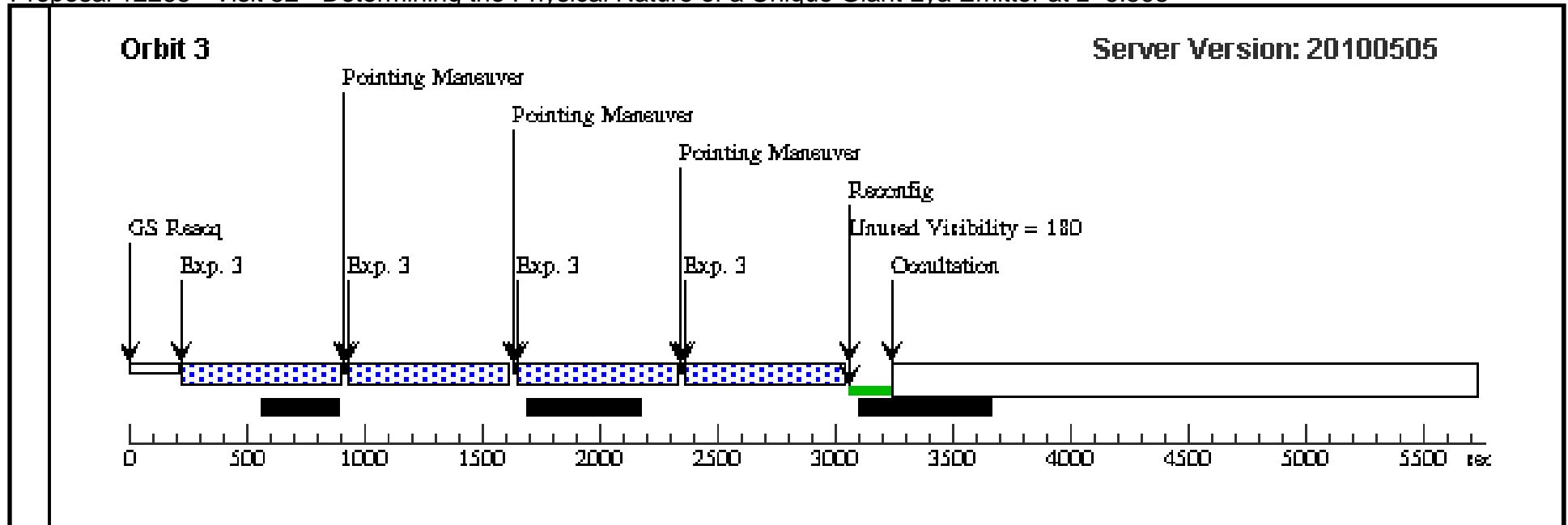


Proposal 12265 - Visit 02 - Determining the Physical Nature of a Unique Giant Lya Emitter at z=6.595

Thu Sep 16 01:05:57 GMT 2010

| | | | | | | | | | | |
|----------------------|---|--|--|---|---------------------------------|--------------------------------|--|-------------------------|--|------------------|
| Visit | Proposal 12265, Visit 52, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01 Comments: F098Mx3 orbits ** Copy of visit 02 lost due to HST safing 9/9/10 ** | | | | | | | | | |
| | Patterns | # | Primary Pattern | | | | Secondary Pattern | | | Exposures |
| (1) | | Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365 | | Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false | | | | | (1), (2), (3) | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | Fluxes | | Miscellaneous | |
| | (1) | Z7-GIANTLAE | RA: 02 17 57.5630 (34.4898458d) Dec: -05 08 44.45 (-5.14568d) Equinox: J2000 | | | | V=(?) z'=25.5+/-0.3 (including Lya emission and Gunn-Peterson trough) | | Reference Frame: ICRS | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | F098M | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F098M | SAMP-SEQ=SPARS 50; NSAMP=14 | | Pattern 1, Exps 1-1 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [1] |
| | 2 | F098M | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F098M | SAMP-SEQ=SPARS 50; NSAMP=14 | POS TARG +0.3726, +0.3330 | Pattern 1, Exps 2-2 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [2] |
| | 3 | F098M | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F098M | SAMP-SEQ=SPARS 50; NSAMP=14 | POS TARG -0.3726, +0.2725 | Pattern 1, Exps 3-3 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [3] |

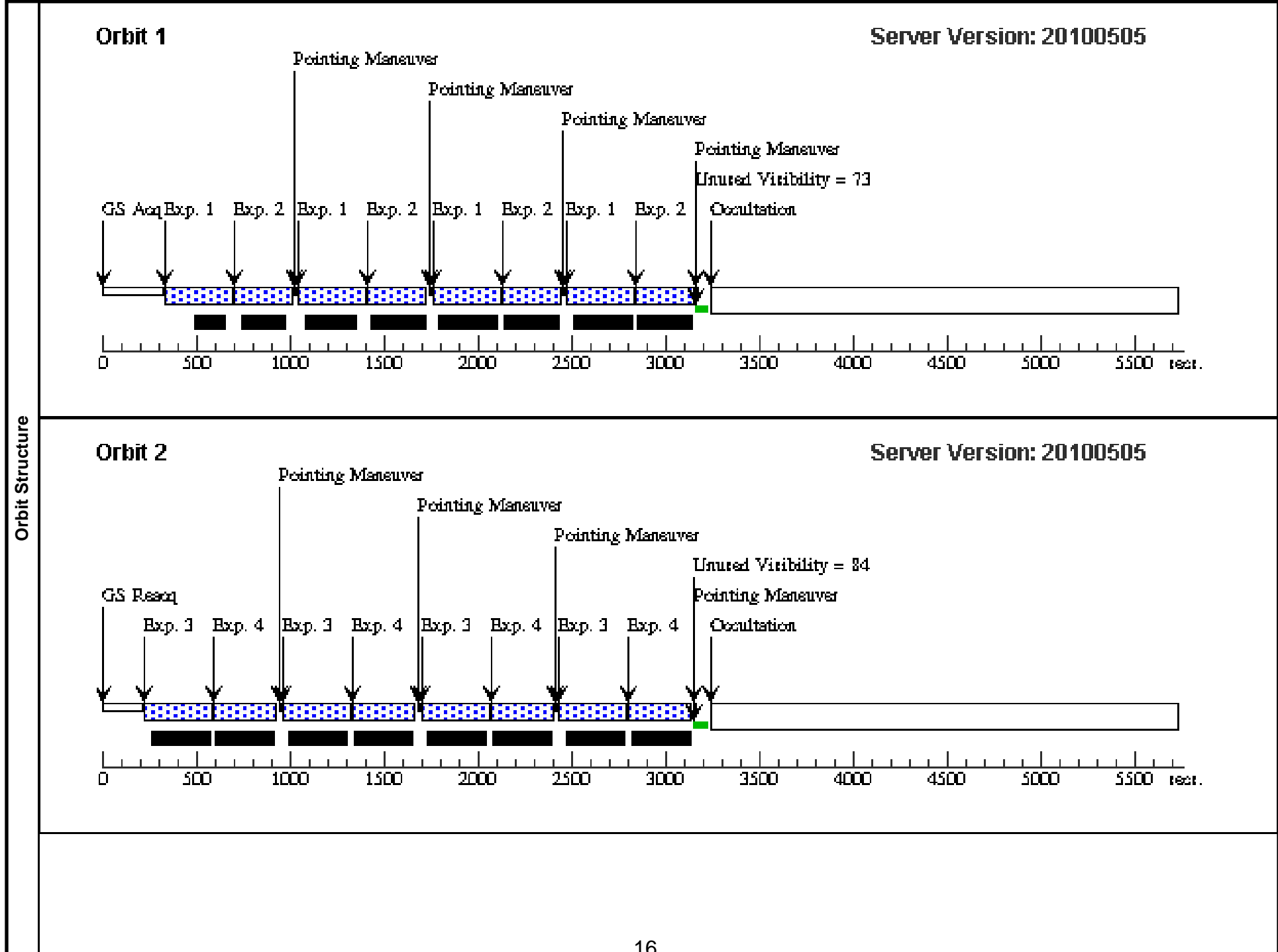




Proposal 12265 - Visit 52 - Determining the Physical Nature of a Unique Giant Lya Emitter at z=6.595

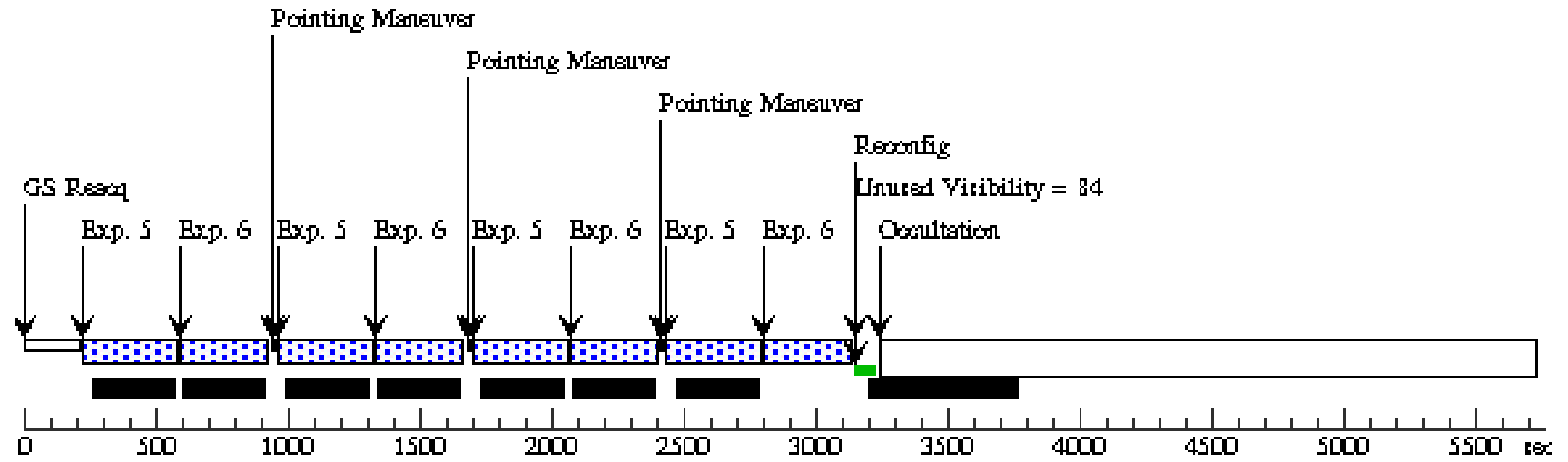
Thu Sep 16 01:05:58 GMT 2010

| Visit | Proposal 12265, Visit 03, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01 <i>Comments: F160Wx3 orbits</i> | | | | | | | | | |
|---------------|---|-------------|--|---|--|--------------------------------|---------------------------|-------------------------|--|-------|
| | Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | | | |
| | | (1) | Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365 | Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false | | (1-2), (3-4), (5-6) | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (1) | Z7-GIANTLAE | RA: 02 17 57.5630 (34.4898458d) Dec: -05 08 44.45 (-5.14568d) Equinox: J2000 | | V=(?) z'=25.5+/-0.3 (including Lya emission and Gunn-Peterson trough) | Reference Frame: ICRS | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=14 | | Pattern 1, Exps 1-2 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [1] |
| | 2 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=13 | | Pattern 1, Exps 1-2 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [1] |
| | 3 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG +0.3726 ,+0.3330 | Pattern 1, Exps 3-4 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [2] |
| | 4 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG +0.3726 ,+0.3330 | Pattern 1, Exps 3-4 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [2] |
| | 5 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG -0.3726 ,+0.2725 | Pattern 1, Exps 5-6 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [3] |
| | 6 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG -0.3726 ,+0.2725 | Pattern 1, Exps 5-6 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [3] |



Orbit 3

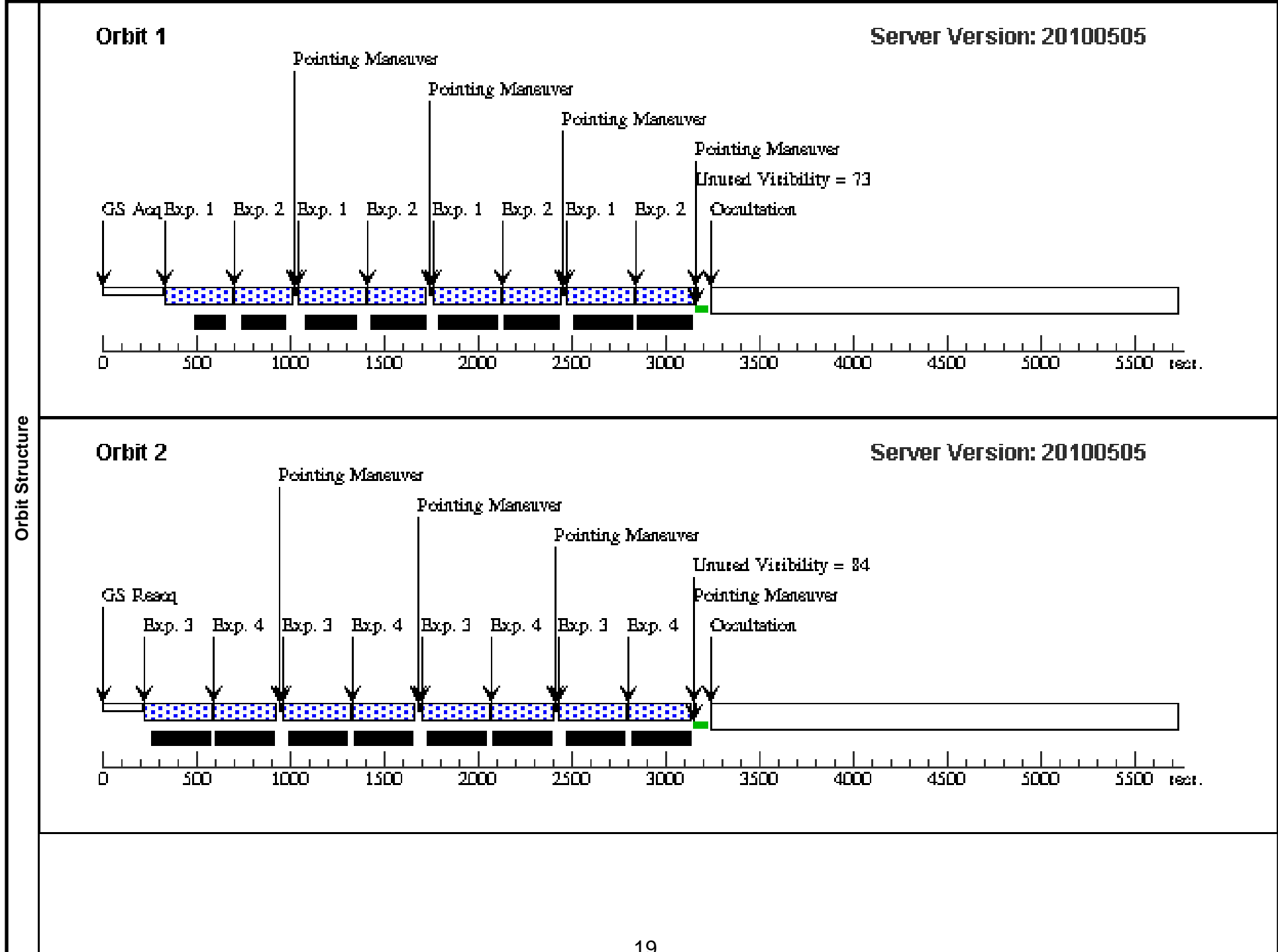
Server Version: 20100505



Proposal 12265 - Visit 03 - Determining the Physical Nature of a Unique Giant Lya Emitter at z=6.595

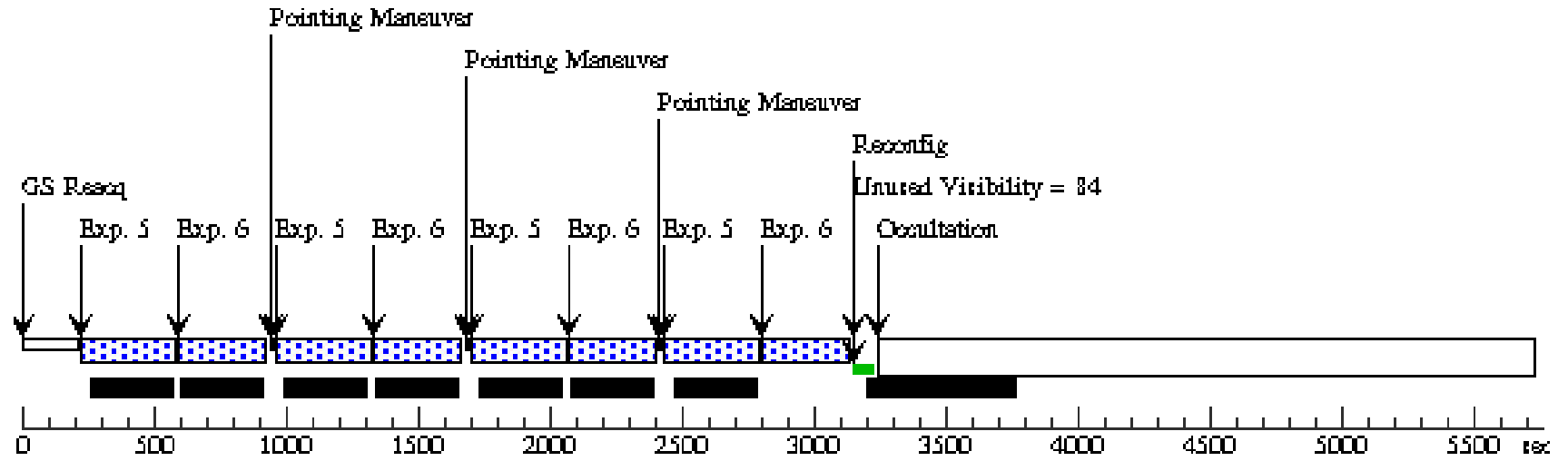
Thu Sep 16 01:05:58 GMT 2010

| Visit | Proposal 12265, Visit 04, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01 Comments: F160Wx1 and F125Wx2 orbits | | | | | | | | | |
|---------------|---|-------------|--|---|--|--------------------------------|------------------------------|-------------------------|--|-------|
| | Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | | | |
| | | (1) | Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365 | Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false | | (1-2), (3-4), (5-6) | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (1) | Z7-GIANTLAE | RA: 02 17 57.5630 (34.4898458d) Dec: -05 08 44.45 (-5.14568d) Equinox: J2000 | | V=(?) z'=25.5+/-0.3 (including Lya emission and Gunn-Peterson trough) | Reference Frame: ICRS | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=14 | | Pattern 1, Exps 1-2 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [1] |
| | 2 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=13 | | Pattern 1, Exps 1-2 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [1] |
| | 3 | F125W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F125W | SAMP-SEQ=SPARS 25; NSAMP=14 | | Pattern 1, Exps 3-4 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [2] |
| | 4 | F125W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F125W | SAMP-SEQ=SPARS 25; NSAMP=14 | | Pattern 1, Exps 3-4 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [2] |
| | 5 | F125W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F125W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG +0.3726 ,-0.3330 | Pattern 1, Exps 5-6 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [3] |
| | 6 | F125W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F125W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG +0.3726 ,-0.3330 | Pattern 1, Exps 5-6 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [3] |



Orbit 3

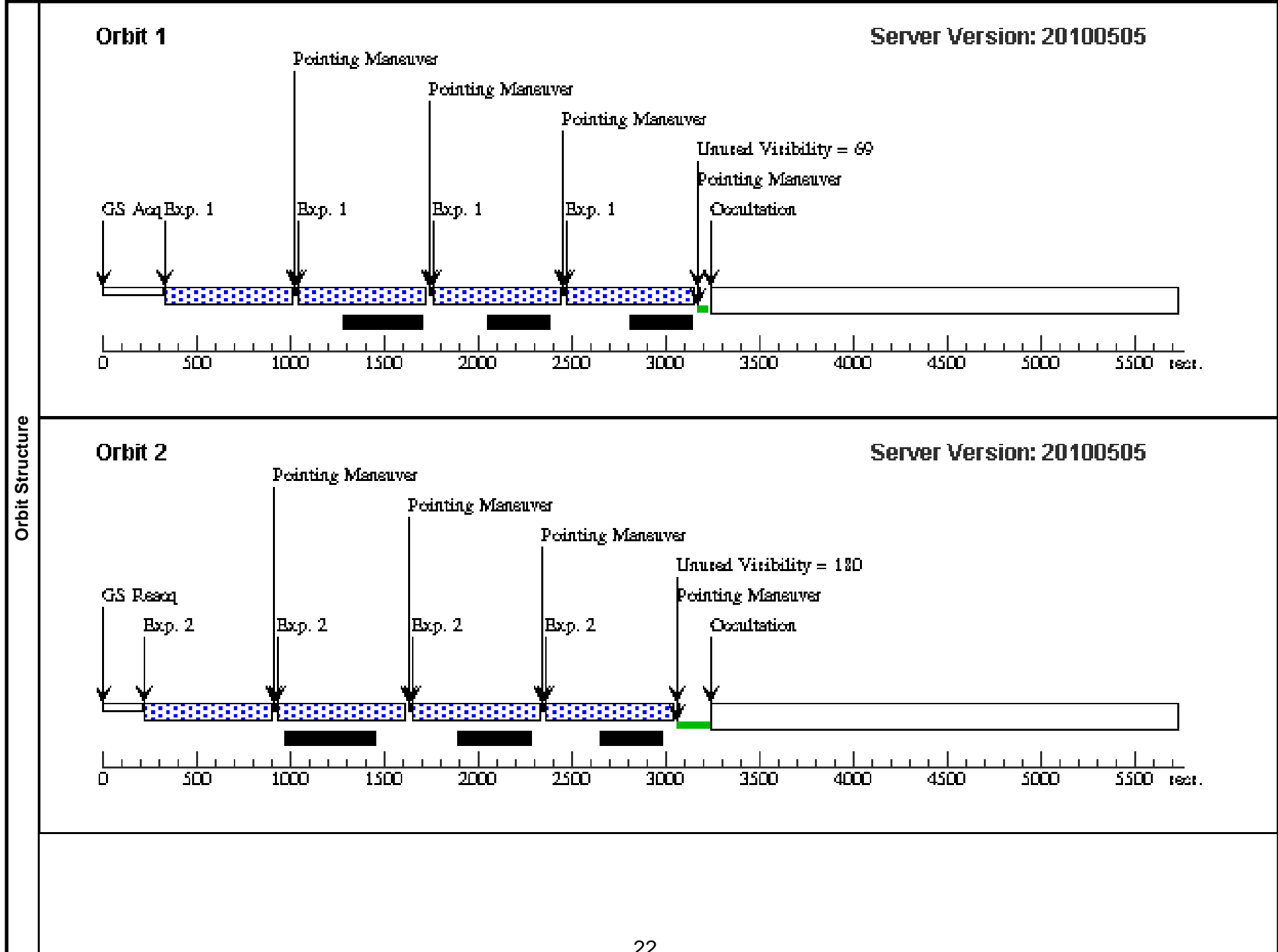
Server Version: 20100505



Proposal 12265 - Visit 04 - Determining the Physical Nature of a Unique Giant Lya Emitter at z=6.595

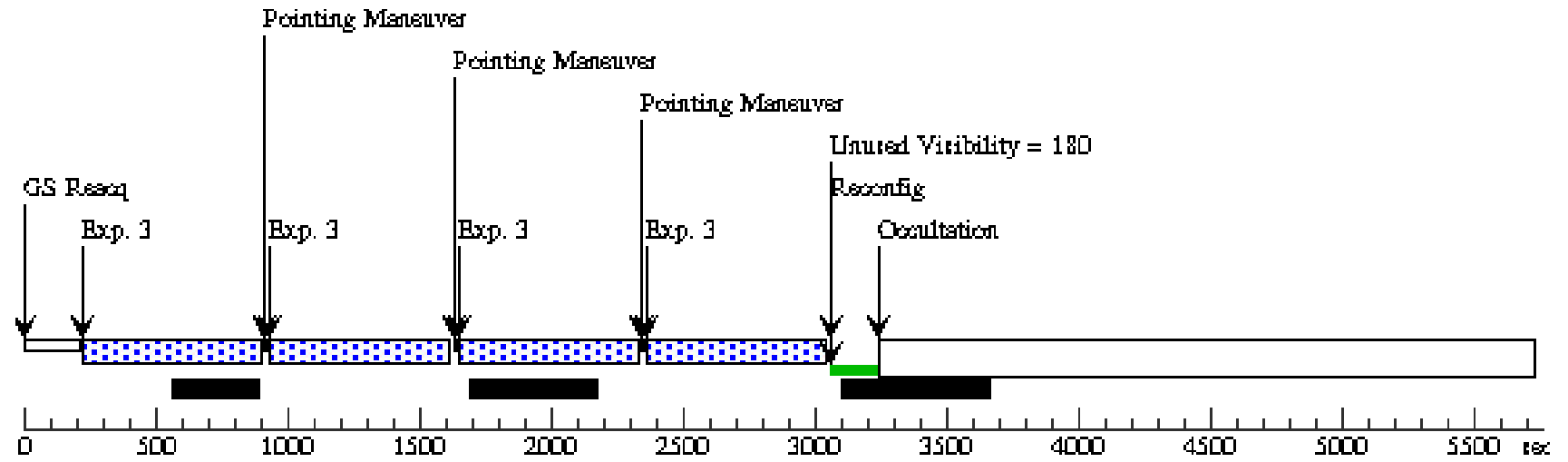
Thu Sep 16 01:05:59 GMT 2010

| Visit | Proposal 12265, Visit 05, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01 Comments: F098Mx3 orbits | | | | | | | | | |
|---------------|---|-------------|--|---|--|--------------------------------|------------------------------|-------------------------|--|-------|
| | Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | | | |
| | | (1) | Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365 | Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false | | (1), (2), (3) | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (1) | Z7-GIANTLAE | RA: 02 17 57.5630 (34.4898458d) Dec: -05 08 44.45 (-5.14568d) Equinox: J2000 | | V=(?) z'=25.5+/-0.3 (including Lya emission and Gunn-Peterson trough) | Reference Frame: ICRS | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | F098M | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F098M | SAMP-SEQ=SPARS 50; NSAMP=14 | | Pattern 1, Exps 1-1 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [1] |
| | 2 | F098M | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F098M | SAMP-SEQ=SPARS 50; NSAMP=14 | POS TARG +0.3726 ,-0.3330 | Pattern 1, Exps 2-2 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [2] |
| | 3 | F098M | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F098M | SAMP-SEQ=SPARS 50; NSAMP=14 | POS TARG -0.3726 -0.2725 | Pattern 1, Exps 3-3 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [3] |



Orbit 3

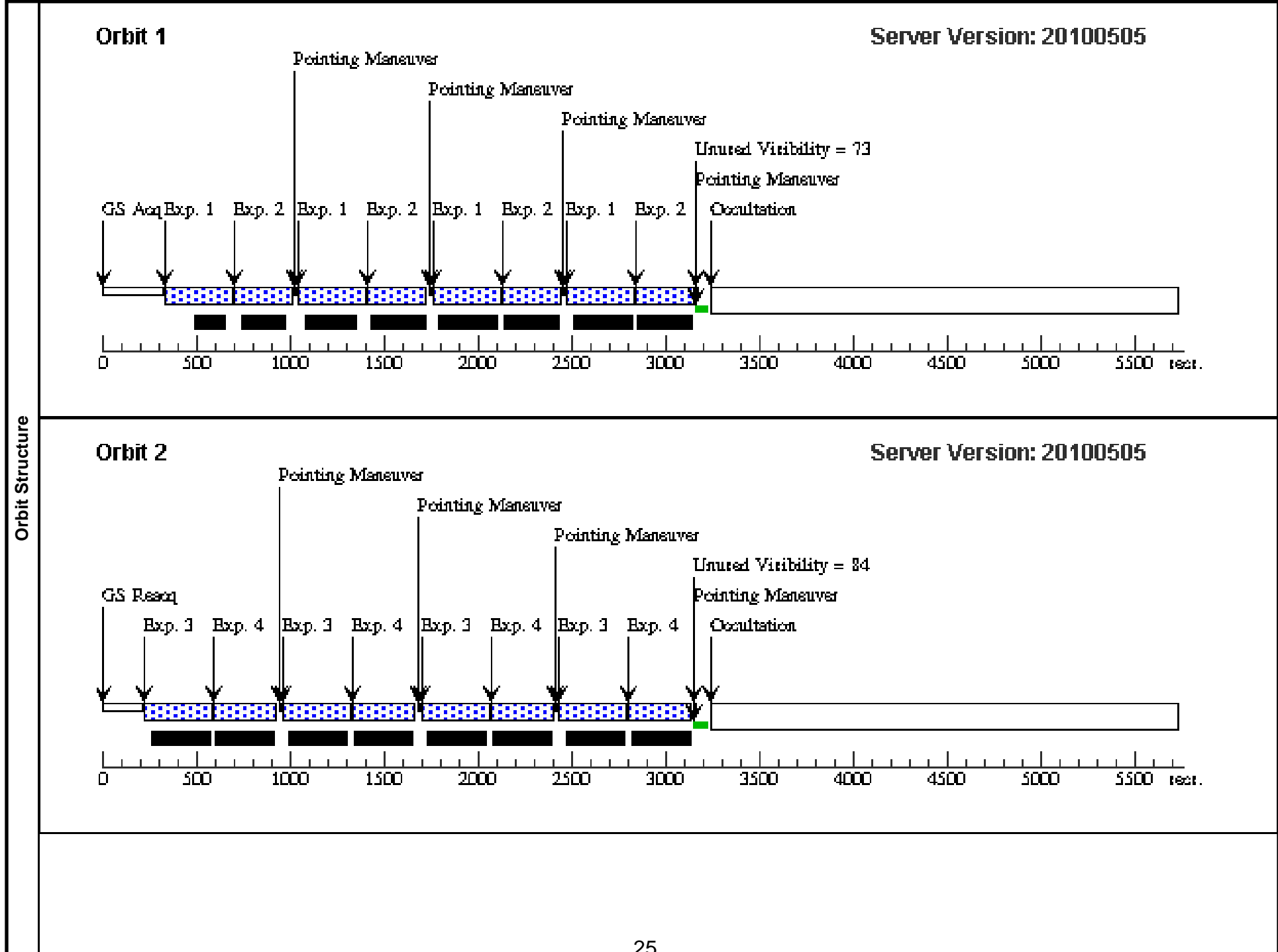
Server Version: 20100505



Proposal 12265 - Visit 05 - Determining the Physical Nature of a Unique Giant Lya Emitter at z=6.595

Thu Sep 16 01:06:00 GMT 2010

| Visit | Proposal 12265, Visit 06, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01 Comments: F160Wx3 orbits | | | | | | | | | |
|---------------|---|--|---|--------------------------|--|--------------------------------|------------------------------|-------------------------|--|-------|
| | Patterns | # | Primary Pattern | Secondary Pattern | Exposures | | | | | |
| | (1) | Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365 | Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false | | (1-2), (3-4), (5-6) | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (1) | Z7-GIANTLAE | RA: 02 17 57.5630 (34.4898458d) Dec: -05 08 44.45 (-5.14568d) Equinox: J2000 | | V=(?) z'=25.5+/-0.3 (including Lya emission and Gunn-Peterson trough) | Reference Frame: ICRS | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=14 | | Pattern 1, Exps 1-2 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [1] |
| | 2 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=13 | | Pattern 1, Exps 1-2 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [1] |
| | 3 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG +0.3726 ,-0.3330 | Pattern 1, Exps 3-4 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [2] |
| | 4 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG +0.3726 ,-0.3330 | Pattern 1, Exps 3-4 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [2] |
| | 5 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG -0.3726 -0.2725 | Pattern 1, Exps 5-6 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [3] |
| | 6 | F160W | (1) Z7-GIANTLAE | WFC3/IR, MULTIACCUM, IR | F160W | SAMP-SEQ=SPARS 25; NSAMP=14 | POS TARG -0.3726 -0.2725 | Pattern 1, Exps 5-6 (1) | [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] | [3] |



Orbit 3

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