



12896 - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galaxy Clusters at $z \sim 2$

Cycle: 20, 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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 13 | (1) IRC0222A | WFC3/IR | 5 | 15-Aug-2012 21:15:35.0 | yes |
| 09 | (1) IRC0222A | WFC3/IR | 5 | 15-Aug-2012 21:15:59.0 | yes |
| 03 | (1) IRC0222A | WFC3/IR | 1 | 15-Aug-2012 21:16:14.0 | yes |
| 04 | (1) IRC0222A | WFC3/IR | 2 | 15-Aug-2012 21:16:33.0 | 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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 05 | (2) IRC0222B | WFC3/IR | 4 | 15-Aug-2012 21:16:48.0 | yes |
| 10 | (2) IRC0222B | WFC3/IR | 4 | 15-Aug-2012 21:17:03.0 | yes |
| 11 | (2) IRC0222B | WFC3/IR | 1 | 15-Aug-2012 21:17:15.0 | yes |
| 12 | (2) IRC0222B | WFC3/IR | 2 | 15-Aug-2012 21:17:34.0 | yes |

24 Total Orbits Used

ABSTRACT

We propose WFC3/IR imaging and grism spectroscopy of two newly discovered galaxy clusters at $z \sim 2$, both of which are independently identified using Spitzer/IRAC colors and accurate photometric redshifts from medium-band near-infrared filters. Only with WFC/IR can we obtain the ~hundreds of spectra needed to separate both active and quiescent cluster galaxies from the field. We will combine the grism spectroscopy with our multi-wavelength data to measure redshifts for ~30 massive members and push down the luminosity function to $L \sim 0.3L^*$ with an accuracy of $\sigma(z)/(1+z) = 0.0034$. The spectra also provide D4000 to measure stellar ages and oxygen emission to track star formation. The WFC3/IR imaging provides resolution of ~2 kpc to measure the physical properties of individual members and classify fainter members and their companions to $H(160) \sim 25.5$. We will combine these WFC3/IR observations with public CANDELS and 3D-HST datasets of field galaxies to: (1) Compare the morphologies, sizes, stellar masses, luminosities, color maps, and star formation histories of cluster galaxies at $z \sim 2$ to well-studied relations at lower redshift to determine how cluster galaxies evolve; (2) Compare to the field at $z \sim 2$ to test for accelerated evolution in the clusters; (3) Measure the minor/major merger fraction to determine if cluster galaxies grow by accretion or in-situ star formation; and (4) Determine why cluster galaxies stop forming stars, i.e. via "mass-quenching" or "environment-quenching". We will effectively double our cluster sample at this pivotal epoch when members are transitioning from intensely star-forming systems to the passive galaxies that dominate local clusters.

OBSERVING DESCRIPTION

Obtain WFC3/IR imaging and grism spectroscopy of two galaxy clusters at $z \sim 2$

For IRC0222A ($z \sim 1.6$), we require 10 orbits with the G102 grism and for IRC0222B ($z \sim 2$), we require 8 orbits with the G141 grism. Each set of orbits will be divided into two visits separated by ORIENT of ~10 degrees to minimize overlap of spectra. To maximize the scheduling window, we have selected the primary roll angle to be ~60 degrees and the second roll angle to be ~70 degrees.

Each galaxy cluster will also be imaged with WFC3/IR for 3 orbits: F105W (1 orbit), F125W (2/3rd orbits), and F160W (4/3rd orbits).

Proposal 12896 - IRC0222A: Grism Visit 1 (5 orbits) (13) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galaxy...

| | | | | | | |
|--------------|---|----------|--|---------------------------|---------------------------------|-----------------------|
| Visit | <p>Proposal 12896, IRC0222A: Grism Visit 1 (5 orbits) (13), implementation Thu Aug 16 01:17:44 GMT 2012</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: SCHED 100%; ORIENT 76D TO 76 D</p> <p><i>Comments: Direct imaging of high redshift galaxy cluster using F105W, then multiple exposures using Grism 102W. Second visit of 2 where each visit contains 5 orbits. The visits are separated by ORIENT of ~10 degrees to minimize overlapping spectra.</i></p> | | | | | |
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes |
| | (1) | IRC0222A | RA: 02 22 3.5000 (35.5145833d) Dec: -04 12 6.00 (-4.20167d) Equinox: J2000 | | V=25.0 redshift=1.6 | Reference Frame: ICRS |

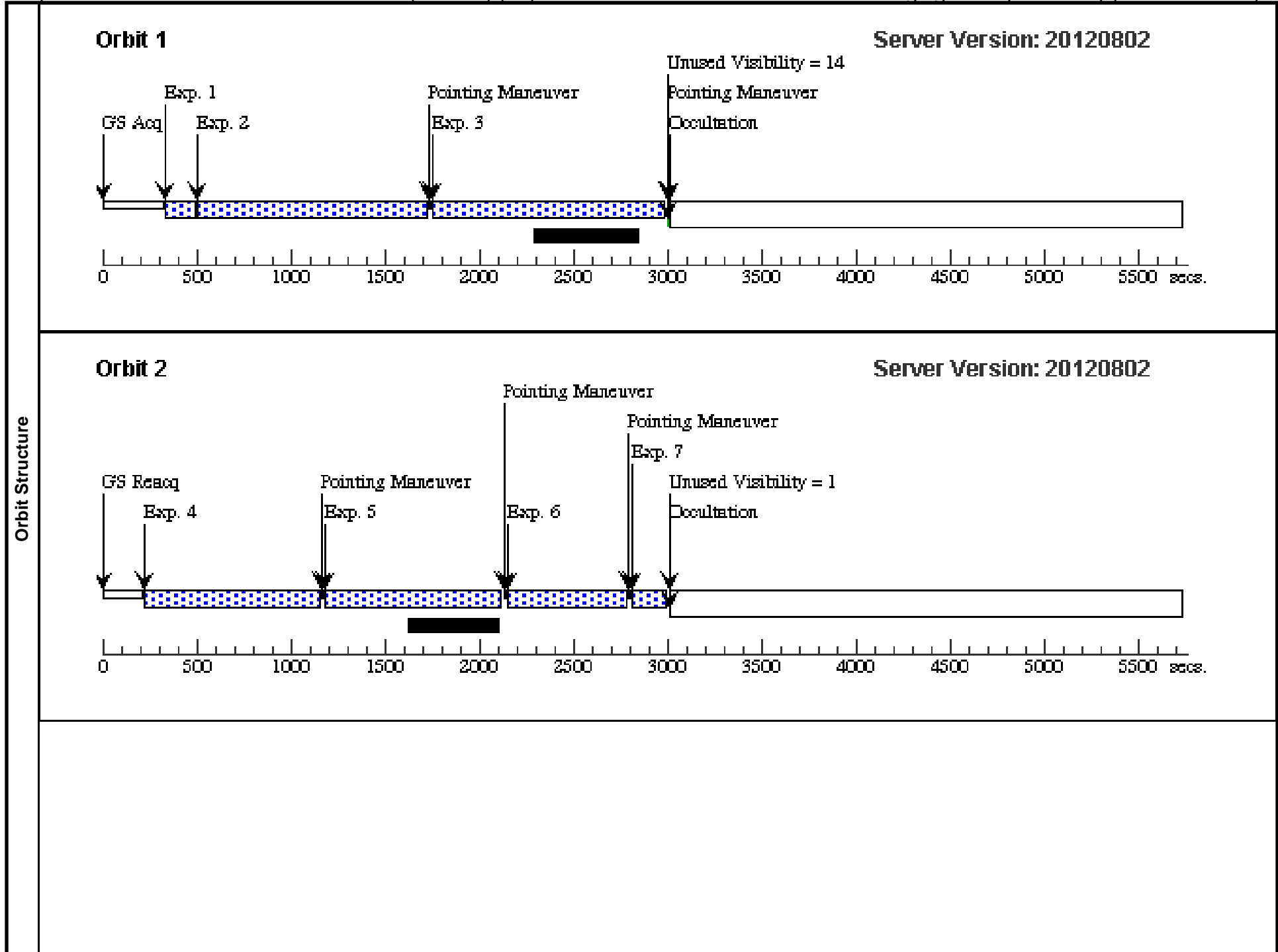
Proposal 12896 - IRC0222A: Grism Visit 1 (5 orbits) (13) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galaxy...

| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
|----|--------------------|--------------|--------------------------------|---------------|---------------------------------|--------------------------|---|-------------------------|-------|
| 1 | Direct F105 W-1.1a | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | F105W | NSAMP=6; SAMP-SEQ=SPAR S25 | GS ACQ SCENARI O BASE1B3 | Sequence 1-3 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [1] |
| 2 | Grism G102 W-1.1 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG 0,0 | Sequence 1-3 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [1] |
| 3 | Grism G102 W-1.2 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG +1.355,+0.424 | Sequence 1-3 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [1] |
| 4 | Grism G102 W-1.3 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=10; SAMP-SEQ=SPAR S100 | POS TARG +0.881,+1.212 | Sequence 4-7 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [2] |
| 5 | Grism G102 W-1.4 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=10; SAMP-SEQ=SPAR S100 | POS TARG -0.474,+0.788 | Sequence 4-7 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [2] |
| 6 | Grism G102 W-1.5 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=7; SAMP-SEQ=SPAR S100 | POS TARG 0,0 | Sequence 4-7 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [2] |
| 7 | Direct F105 W-1.2 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | F105W | NSAMP=7; SAMP-SEQ=SPAR S25 | POS TARG 1.355,+0.424 | Sequence 4-7 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [2] |
| 8 | Grism G102 W-1.6 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=7; SAMP-SEQ=SPAR S100 | POS TARG +1.355,+0.424 | Sequence 8-11 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [3] |
| 9 | Grism G102 W-1.7 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=10; SAMP-SEQ=SPAR S100 | POS TARG +0.881,+1.212 | Sequence 8-11 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [3] |
| 10 | Grism G102 W-1.8 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=10; SAMP-SEQ=SPAR S100 | POS TARG -0.474,+0.788 | Sequence 8-11 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [3] |
| 11 | Direct F105 W-1.3 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | F105W | NSAMP=7; SAMP-SEQ=SPAR S25 | POS TARG +0.881,+1.212 | Sequence 8-11 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [3] |
| 12 | Grism G102 W-1.9 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG +0.881,+1.212 | Sequence 12-14 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [4] |
| 13 | Grism G102 W-1.10 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG -0.474,+0.788 | Sequence 12-14 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [4] |
| 14 | Direct F105 W-1.4 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | F105W | NSAMP=11; SAMP-SEQ=SPAR S25 | POS TARG -0.474,+0.788 | Sequence 12-14 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [4] |

Exposures

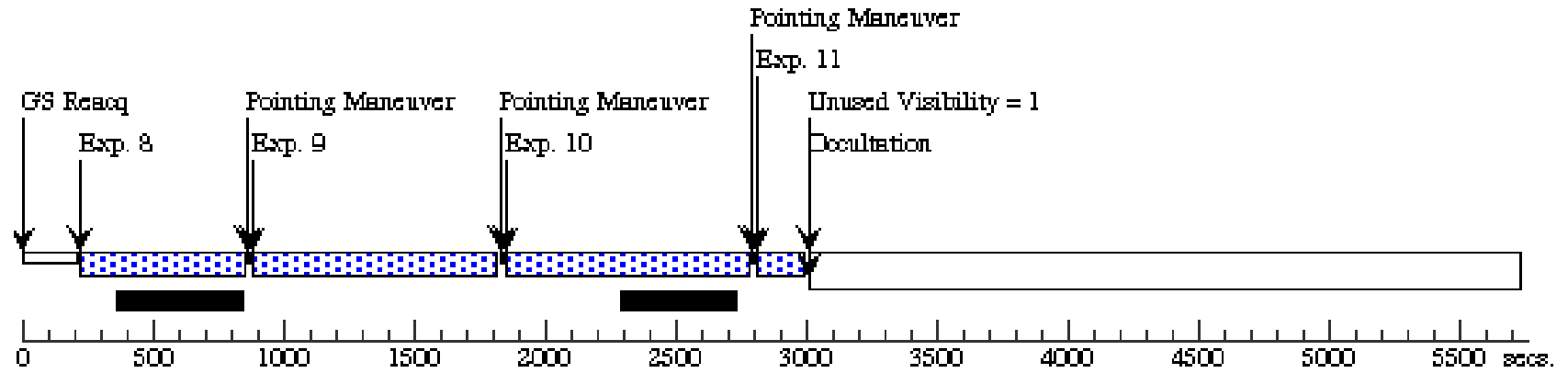
Proposal 12896 - IRC0222A: Grism Visit 1 (5 orbits) (13) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galaxy...

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|----|--------------------|--------------|--------------------------------|-------|------------------------------|-------------------------|---|-------|-----|
| 15 | Grism G102 W-1.11 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG 0,null | Sequence 15-17 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [5] |
| 16 | Grism G102 W-1.12 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG +1.355, +0.424 | Sequence 15-17 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [5] |
| 17 | Direct F105 W-1.1b | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | F105W | NSAMP=9; SAMP-SEQ=SPAR S25 | | Sequence 15-17 Non-Int in IRC0222A: Grism Visit 1 (5 orbits) (13) | [==>] | [5] |



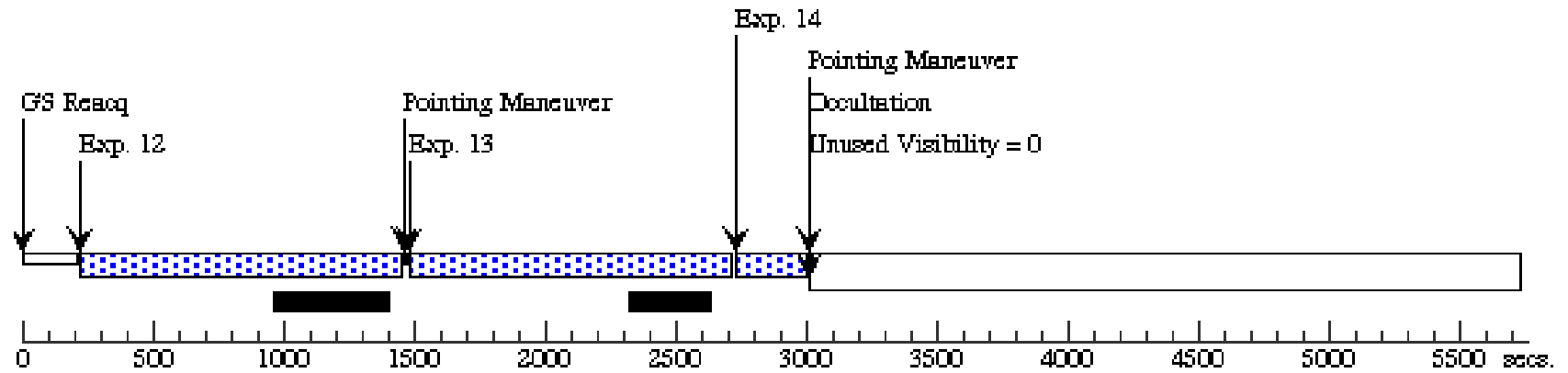
Orbit 3

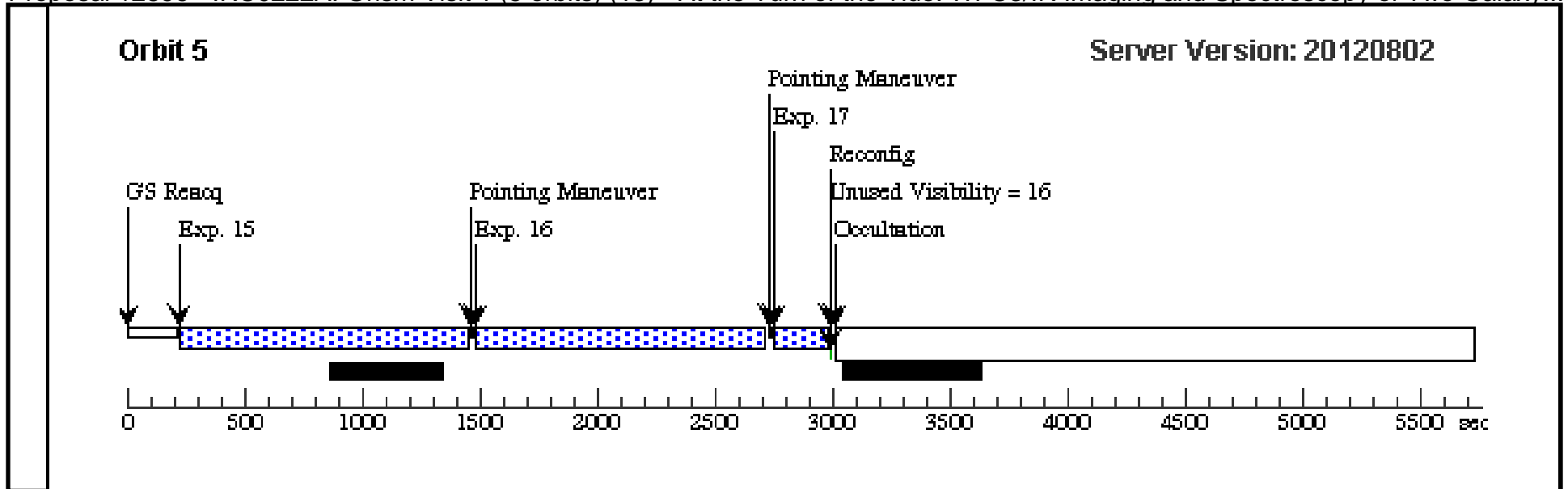
Server Version: 20120802



Orbit 4

Server Version: 20120802





Proposal 12896 - IRC0222A: Grism Visit 2 (5 orbits) (09) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galaxy...

| | | | | | | |
|--------------|---|----------|--|---------------------------|---------------------------------|-----------------------|
| Visit | <p>Proposal 12896, IRC0222A: Grism Visit 2 (5 orbits) (09), implementation Thu Aug 16 01:17:50 GMT 2012</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: SCHED 100%; ORIENT 86D TO 86 D</p> <p><i>Comments: Direct imaging of high redshift galaxy cluster using F105W, then multiple exposures using Grism 102W. Second visit of 2 where each visit contains 5 orbits. The visits are separated by ORIENT of ~10 degrees to minimize overlapping spectra.</i></p> | | | | | |
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes |
| (1) | | IRC0222A | RA: 02 22 3.5000 (35.5145833d) Dec: -04 12 6.00 (-4.20167d) Equinox: J2000 | | V=25.0 redshift=1.6 | Reference Frame: ICRS |

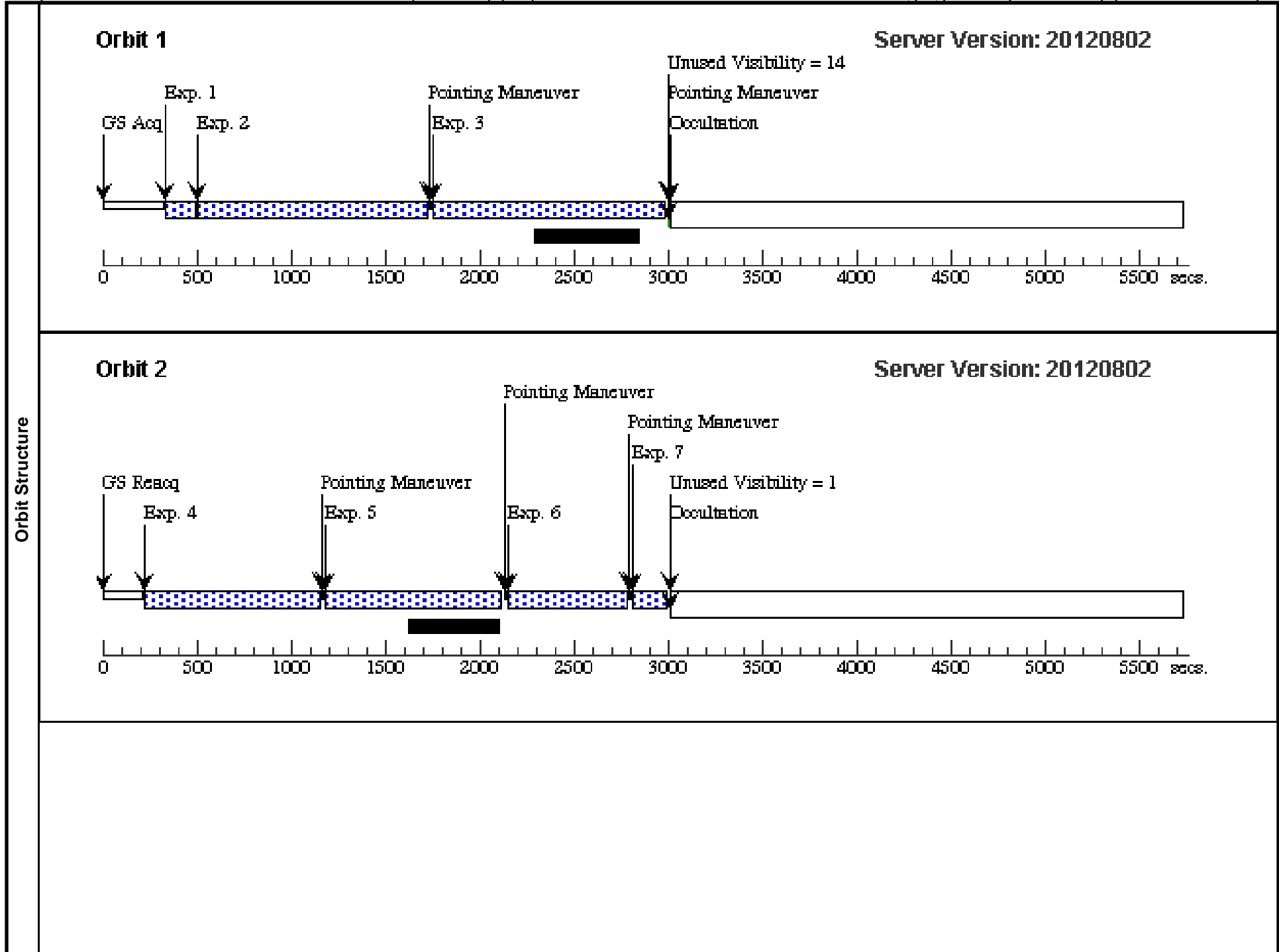
Proposal 12896 - IRC0222A: Grism Visit 2 (5 orbits) (09) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galaxy...

| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
|----|--------------------|--------------|--------------------------------|---------------|------------------------------------|------------------------|---|-------------------------|-------|
| 1 | Direct F105 W-2.1a | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | F105W | NSAMP=6; SAMP-SEQ=SPAR S25 | | Sequence 1-3 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [1] |
| 2 | Grism G102 W-2.1 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG 0,0 | Sequence 1-3 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [1] |
| 3 | Grism G102 W-2.2 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG +1.355,+0.424 | Sequence 1-3 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [1] |
| 4 | Grism G102 W-2.3 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=10; SAMP-SEQ=SPAR S100 | POS TARG +0.881,+1.212 | Sequence 4-7 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [2] |
| 5 | Grism G102 W-2.4 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=10; SAMP-SEQ=SPAR S100 | POS TARG -0.474,+0.788 | Sequence 4-7 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [2] |
| 6 | Grism G102 W-2.5 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=7; SAMP-SEQ=SPAR S100 | POS TARG 0,0 | Sequence 4-7 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [2] |
| 7 | Direct F105 W-2.2 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | F105W | NSAMP=7; SAMP-SEQ=SPAR S25 | POS TARG 1.355,+0.424 | Sequence 4-7 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [2] |
| 8 | Grism G102 W-2.6 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=7; SAMP-SEQ=SPAR S100 | POS TARG +1.355,+0.424 | Sequence 8-11 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [3] |
| 9 | Grism G102 W-2.7 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=10; SAMP-SEQ=SPAR S100 | POS TARG +0.881,+1.212 | Sequence 8-11 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [3] |
| 10 | Grism G102 W-2.8 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=10; SAMP-SEQ=SPAR S100 | POS TARG -0.474,+0.788 | Sequence 8-11 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [3] |
| 11 | Direct F105 W-2.3 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | F105W | NSAMP=7; SAMP-SEQ=SPAR S25 | POS TARG +0.881,+1.212 | Sequence 8-11 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [3] |
| 12 | Grism G102 W-2.9 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG +0.881,+1.212 | Sequence 12-14 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [4] |
| 13 | Grism G102 W-2.10 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG -0.474,+0.788 | Sequence 12-14 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [4] |
| 14 | Direct F105 W-2.4 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | F105W | NSAMP=11; SAMP-SEQ=SPAR S25 | POS TARG -0.474,+0.788 | Sequence 12-14 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [4] |

Exposures

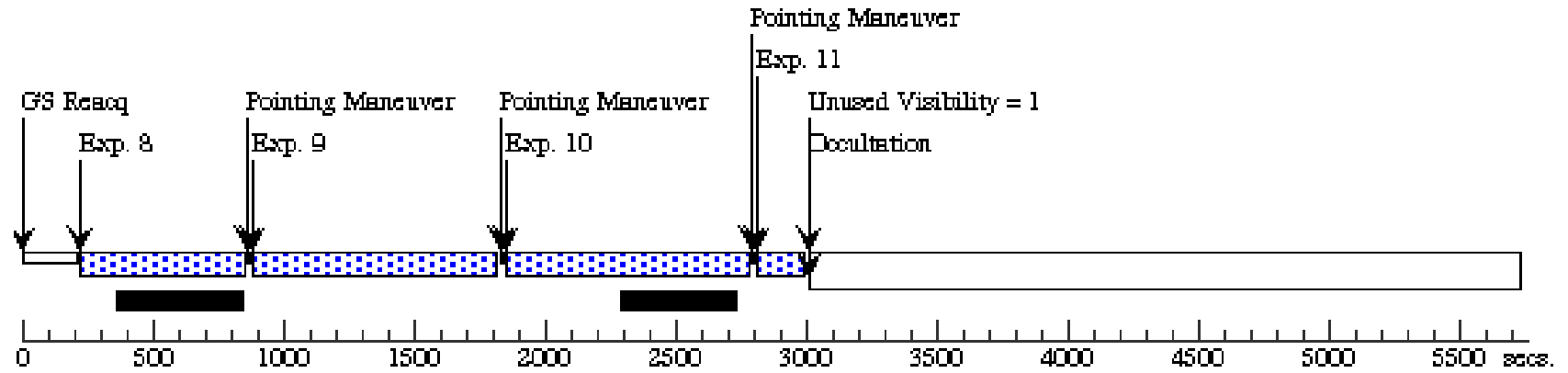
Proposal 12896 - IRC0222A: Grism Visit 2 (5 orbits) (09) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galaxy...

| | | | | | | | | | |
|----|--------------------|--------------|--------------------------------|-------|------------------------------------|----------------------------|---|-------|-----|
| 15 | Grism G102 W-2.11 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG 0,null | Sequence 15-17 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [5] |
| 16 | Grism G102 W-2.12 | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | G102 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG +1.355, +0.424 | Sequence 15-17 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [5] |
| 17 | Direct F105 W-2.1b | (1) IRC0222A | WFC3/IR, MULTIACCUM, GRISM1024 | F105W | NSAMP=9; SAMP-SEQ=SPAR S25 | | Sequence 15-17 Non-Int in IRC0222A: Grism Visit 2 (5 orbits) (09) | [==>] | [5] |



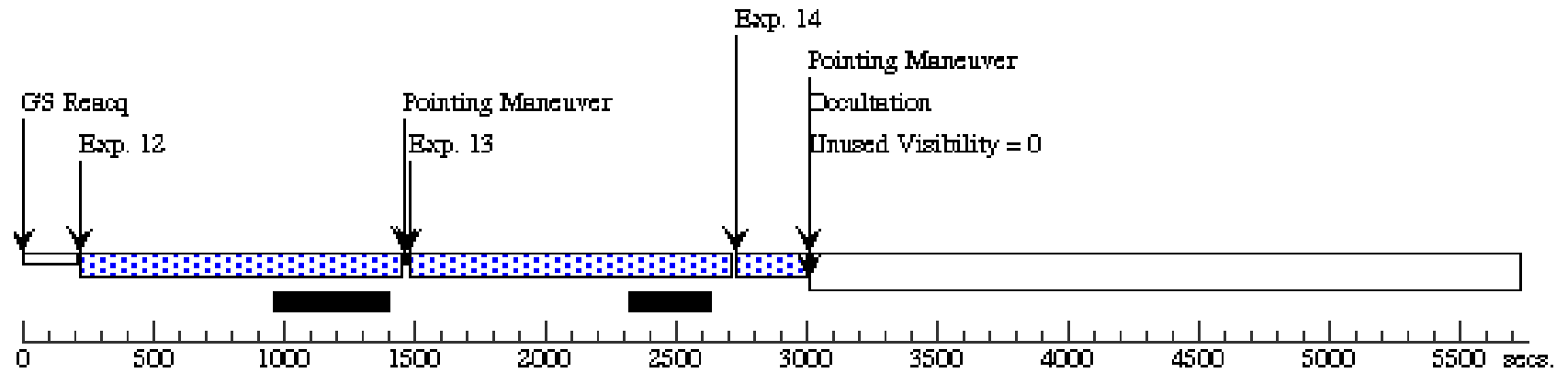
Orbit 3

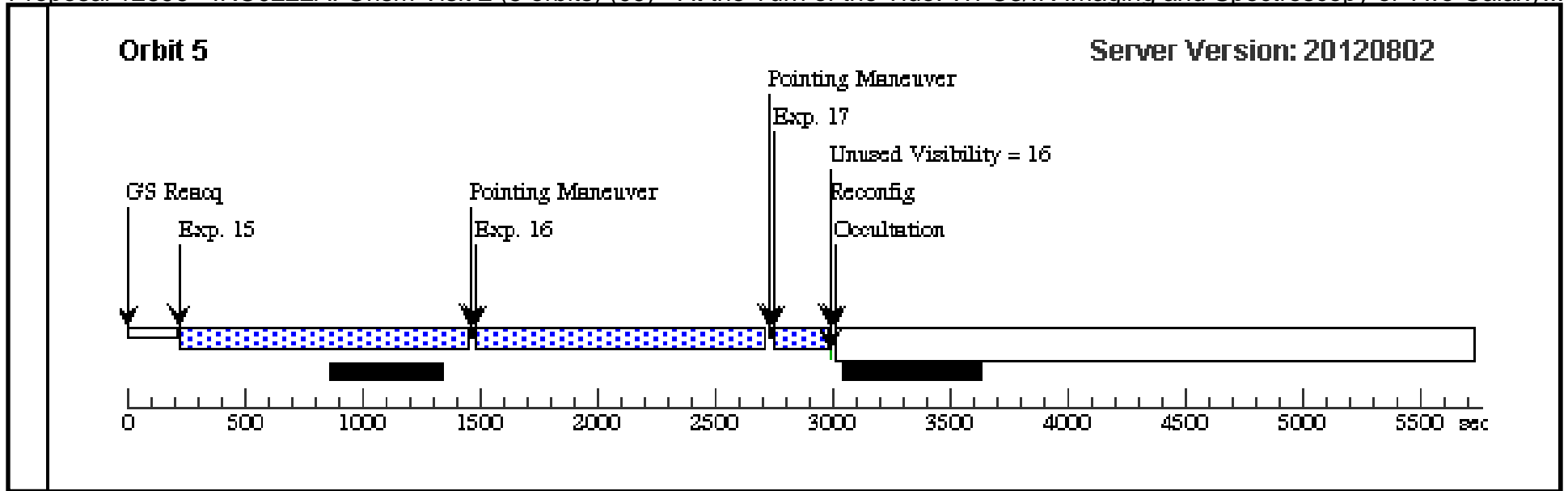
Server Version: 20120802



Orbit 4

Server Version: 20120802

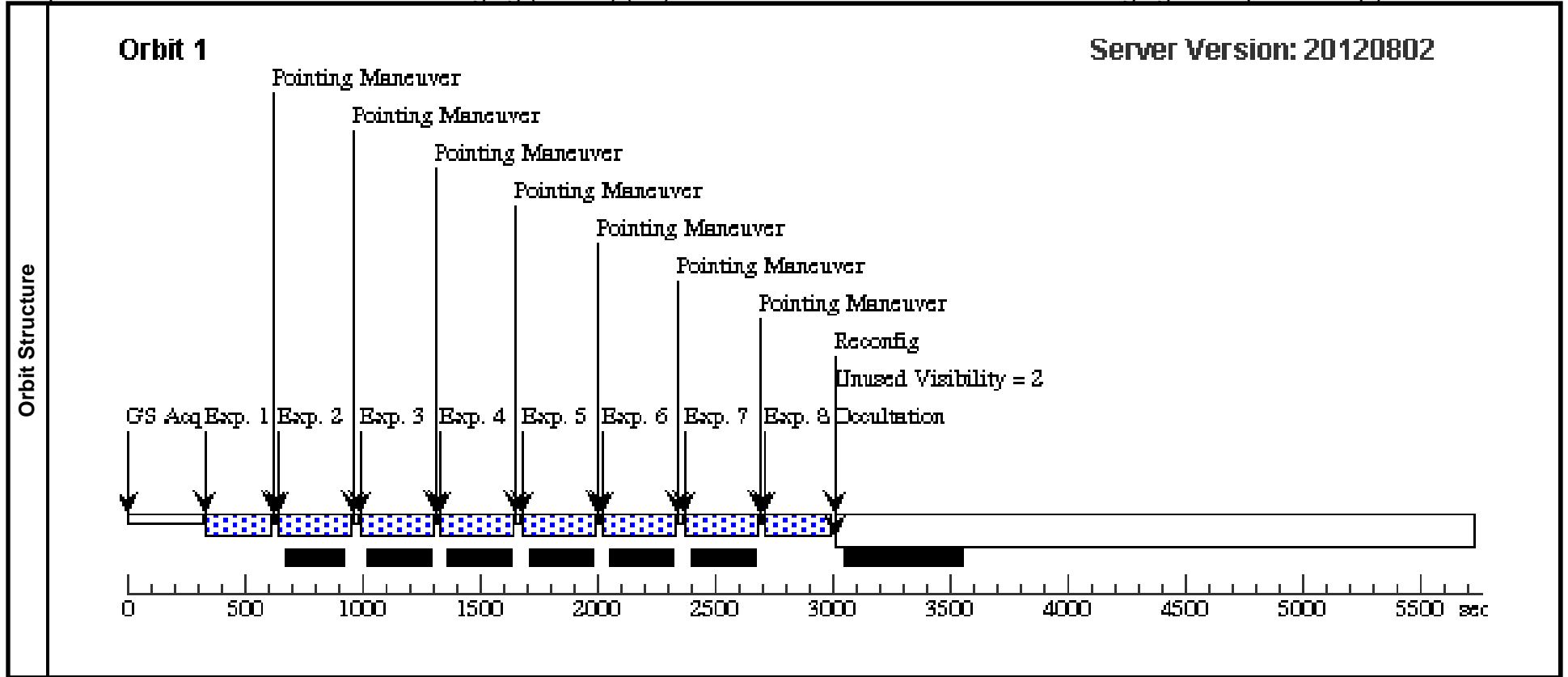




Proposal 12896 - IRC0222A F105W Imaging (1 orbit) (03) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galax...

Thu Aug 16 01:17:55 GMT 2012

| Visit | Proposal 12896, IRC0222A F105W Imaging (1 orbit) (03), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ORIENT 76D TO 86 D Comments: Imaging of high redshift cluster in 3 orbits split between F105W (1 orbit), F125W (2/3 orbit), and F160W (4/3 orbit) | | | | | | | | | |
|-----------|---|--------------|--|-------------------------|-----------------------------------|-----------------------------------|---|---|-------------------------|-------|
| | Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | |
| | (1) | IRC0222A | RA: 02 22 3.5000 (35.5145833d) Dec: -04 12 6.00 (-4.20167d) Equinox: J2000 | | V=25.0 redshift=1.6 | Reference Frame: ICRS | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | F105W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=11; SAMP-SEQ=SPAR S25 | POS TARG 0,0 | Sequence 1-4 Non-Int in IRC0222A F105W Imaging (1 orbit) (03) | [==>] | [1] |
| | 2 | F105W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=12; SAMP-SEQ=SPAR S25 | POS TARG -0.3387, +0.1816 | Sequence 1-4 Non-Int in IRC0222A F105W Imaging (1 orbit) (03) | [==>] | [1] |
| | 3 | F105W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=12; SAMP-SEQ=SPAR S25 | POS TARG -6.666,+ 6.0187 | Sequence 1-4 Non-Int in IRC0222A F105W Imaging (1 orbit) (03) | [==>] | [1] |
| | 4 | F105W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=12; SAMP-SEQ=SPAR S25 | POS TARG -7.0054, +6.2003 | Sequence 1-4 Non-Int in IRC0222A F105W Imaging (1 orbit) (03) | [==>] | [1] |
| | 5 | F105W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=12; SAMP-SEQ=SPAR S25 | POS TARG 0,0 | Sequence 5-8 Non-Int in IRC0222A F105W Imaging (1 orbit) (03) | [==>] | [1] |
| | 6 | F105W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=12; SAMP-SEQ=SPAR S25 | POS TARG -0.3387, +0.1816 | Sequence 5-8 Non-Int in IRC0222A F105W Imaging (1 orbit) (03) | [==>] | [1] |
| | 7 | F105W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=12; SAMP-SEQ=SPAR S25 | POS TARG -6.666,+ 6.0187 | Sequence 5-8 Non-Int in IRC0222A F105W Imaging (1 orbit) (03) | [==>] | [1] |
| 8 | F105W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=11; SAMP-SEQ=SPAR S25 | POS TARG -7.0054, +6.2003 | Sequence 5-8 Non-Int in IRC0222A F105W Imaging (1 orbit) (03) | [==>] | [1] | |



Proposal 12896 - IRC0222A F125W & F160W Imaging (2 orbits) (04) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of...

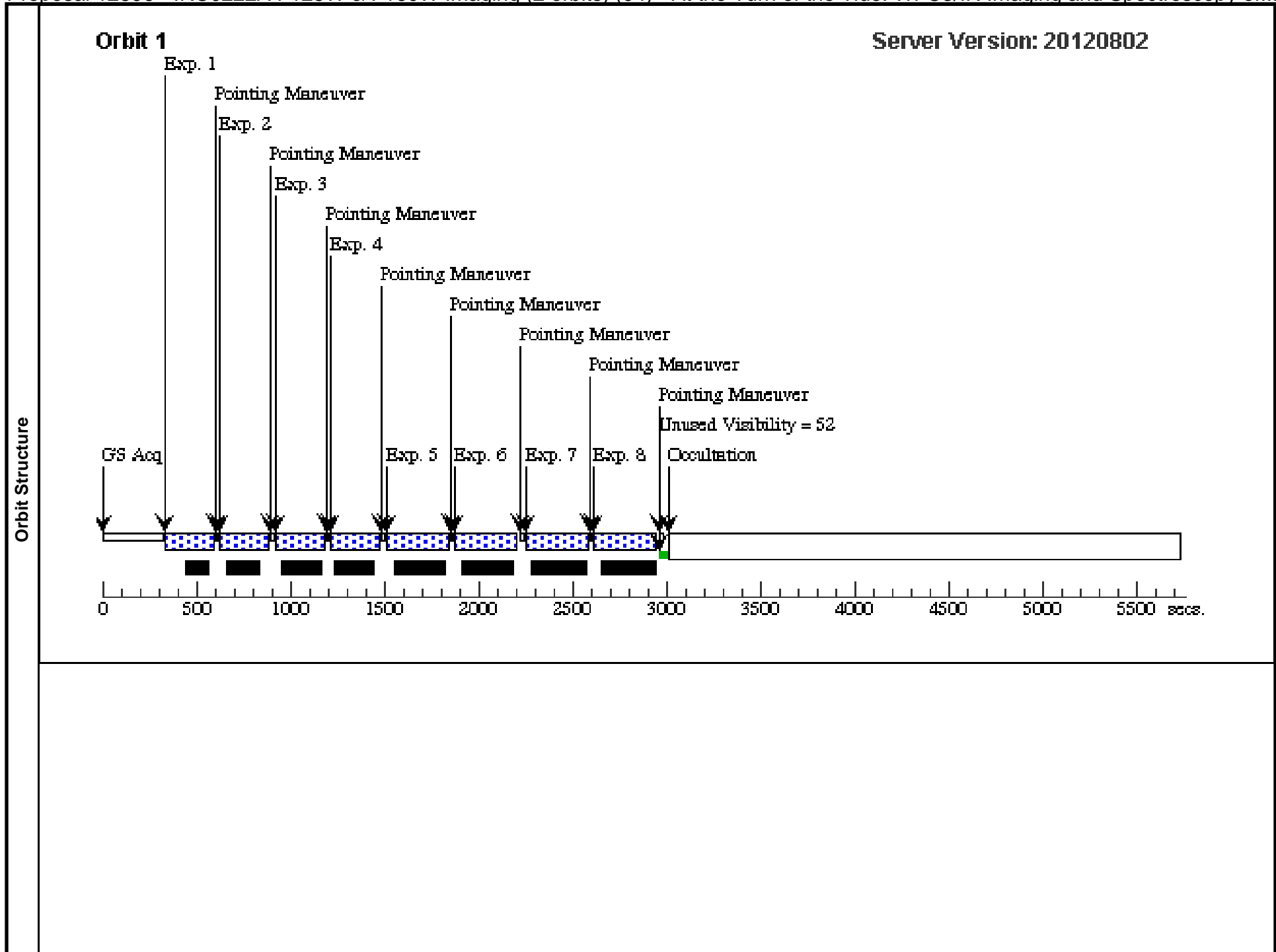
| | | | | | | |
|----------------------|--|-------------|--|---------------------------------|------------------------|-----------------------|
| Visit | Proposal 12896, IRC0222A F125W & F160W Imaging (2 orbits) (04), implementation Thu Aug 16 01:17:56 GMT 2012 | | | | | |
| | Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ORIENT 76D TO 86 D <i>Comments: Imaging of high redshift cluster in 3 orbits split between F105W (1 orbit), F125W (2/3 orbit), and F160W (4/3 orbit)</i> | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
| | (1) | IRC0222A | RA: 02 22 3.5000 (35.5145833d) Dec: -04 12 6.00 (-4.20167d) Equinox: J2000 | | V=25.0 redshift=1.6 | Reference Frame: ICRS |

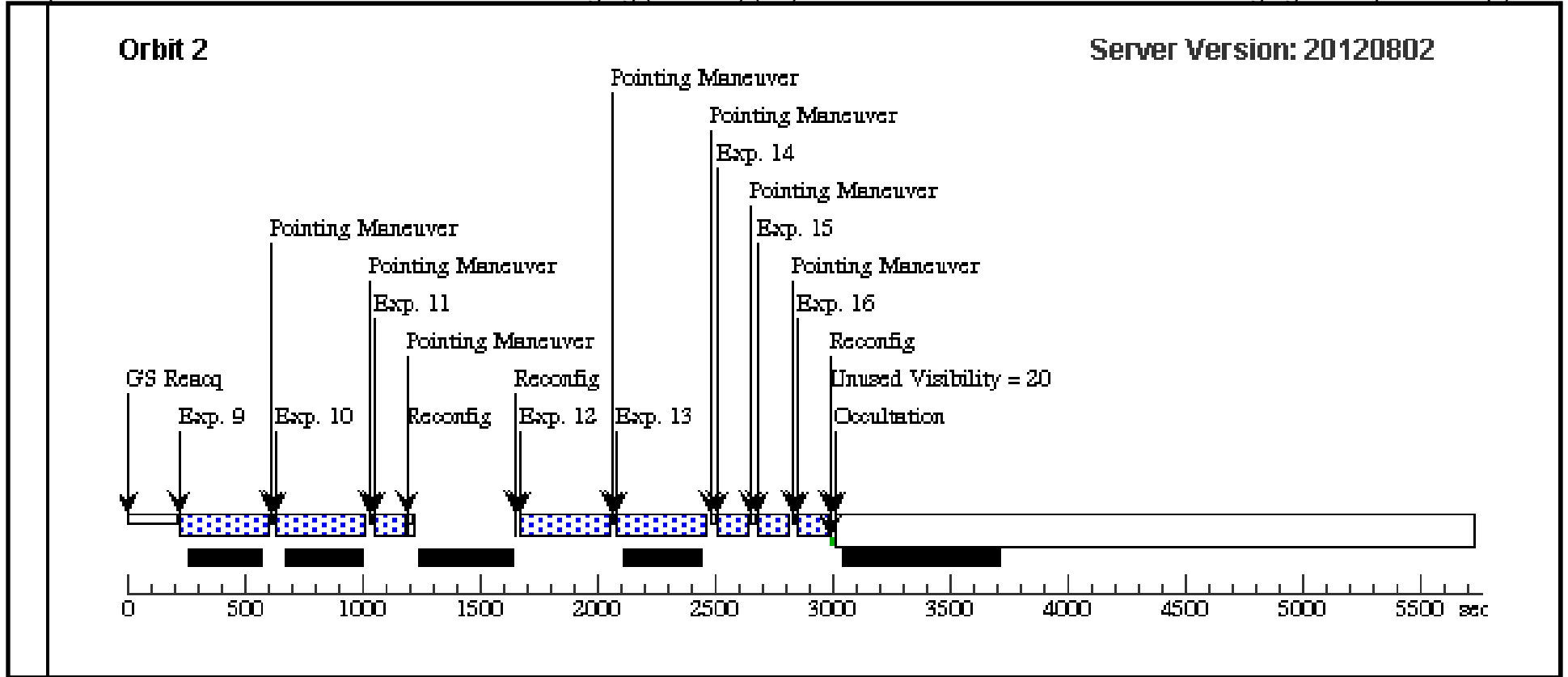
Proposal 12896 - IRC0222A F125W & F160W Imaging (2 orbits) (04) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of...

| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
|----|-------|--------------|-----------------------------|---------------|-----------------------------------|------------------------------|---|-------------------------|-------|
| 1 | F125W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=10; SAMP-SEQ=SPAR S25 | POS TARG 0,0 | Sequence 1-8 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [1] |
| 2 | F125W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=10; SAMP-SEQ=SPAR S25 | POS TARG -0.3387, +0.1816 | Sequence 1-8 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [1] |
| 3 | F125W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=10; SAMP-SEQ=SPAR S25 | POS TARG -6.6666, +6.0187 | Sequence 1-8 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [1] |
| 4 | F125W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=10; SAMP-SEQ=SPAR S25 | POS TARG -7.0054, +6.2003 | Sequence 1-8 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [1] |
| 5 | F160W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=13; SAMP-SEQ=SPAR S25 | POS TARG 0,0 | Sequence 1-8 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [1] |
| 6 | F160W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=13; SAMP-SEQ=SPAR S25 | POS TARG -0.3387, +0.1816 | Sequence 1-8 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [1] |
| 7 | F160W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=13; SAMP-SEQ=SPAR S25 | POS TARG -6.6666, +6.0187 | Sequence 1-8 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [1] |
| 8 | F160W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=13; SAMP-SEQ=SPAR S25 | POS TARG -7.0054, +6.2003 | Sequence 1-8 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [1] |
| 9 | F160W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=15; SAMP-SEQ=SPAR S25 | POS TARG 0,0 | Sequence 9-16 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [2] |
| 10 | F160W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=15; SAMP-SEQ=SPAR S25 | POS TARG -0.3387, +0.1816 | Sequence 9-16 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [2] |
| 11 | F125W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=5; SAMP-SEQ=SPAR S25 | POS TARG 0,0 | Sequence 9-16 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [2] |
| 12 | F160W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=15; SAMP-SEQ=SPAR S25 | POS TARG -6.6666, +6.0187 | Sequence 9-16 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [2] |
| 13 | F160W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=15; SAMP-SEQ=SPAR S25 | POS TARG -7.0054, +6.2003 | Sequence 9-16 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [2] |
| 14 | F125W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=5; SAMP-SEQ=SPAR S25 | POS TARG -0.3387, +0.1816 | Sequence 9-16 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [2] |

Proposal 12896 - IRC0222A F125W & F160W Imaging (2 orbits) (04) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of...

| | | | | | | | | | |
|----|-------|--------------|-----------------------------|-------|----------------------------------|------------------------------|---|-------|-----|
| 15 | F125W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=5; SAMP-SEQ=SPAR S25 | POS TARG -6.6666, +6.0187 | Sequence 9-16 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [2] |
| 16 | F125W | (1) IRC0222A | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=5; SAMP-SEQ=SPAR S25 | POS TARG -7.0054, +6.2003 | Sequence 9-16 Non-Int in IRC0222A F125W & F160W Imaging (2 orbits) (04) | [==>] | [2] |





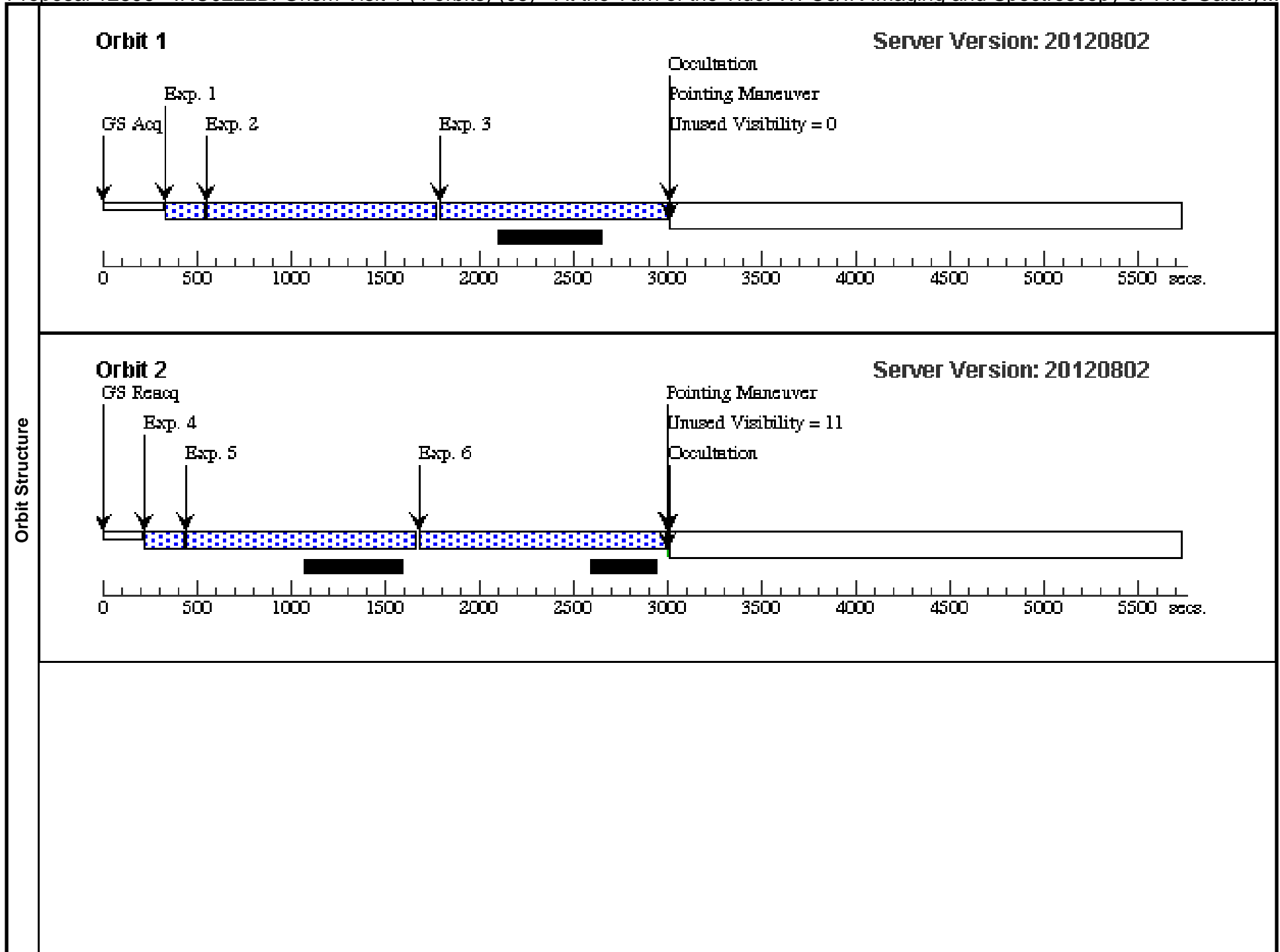
Proposal 12896 - IRC0222B: Grism Visit 1 (4 orbits) (05) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galaxy...

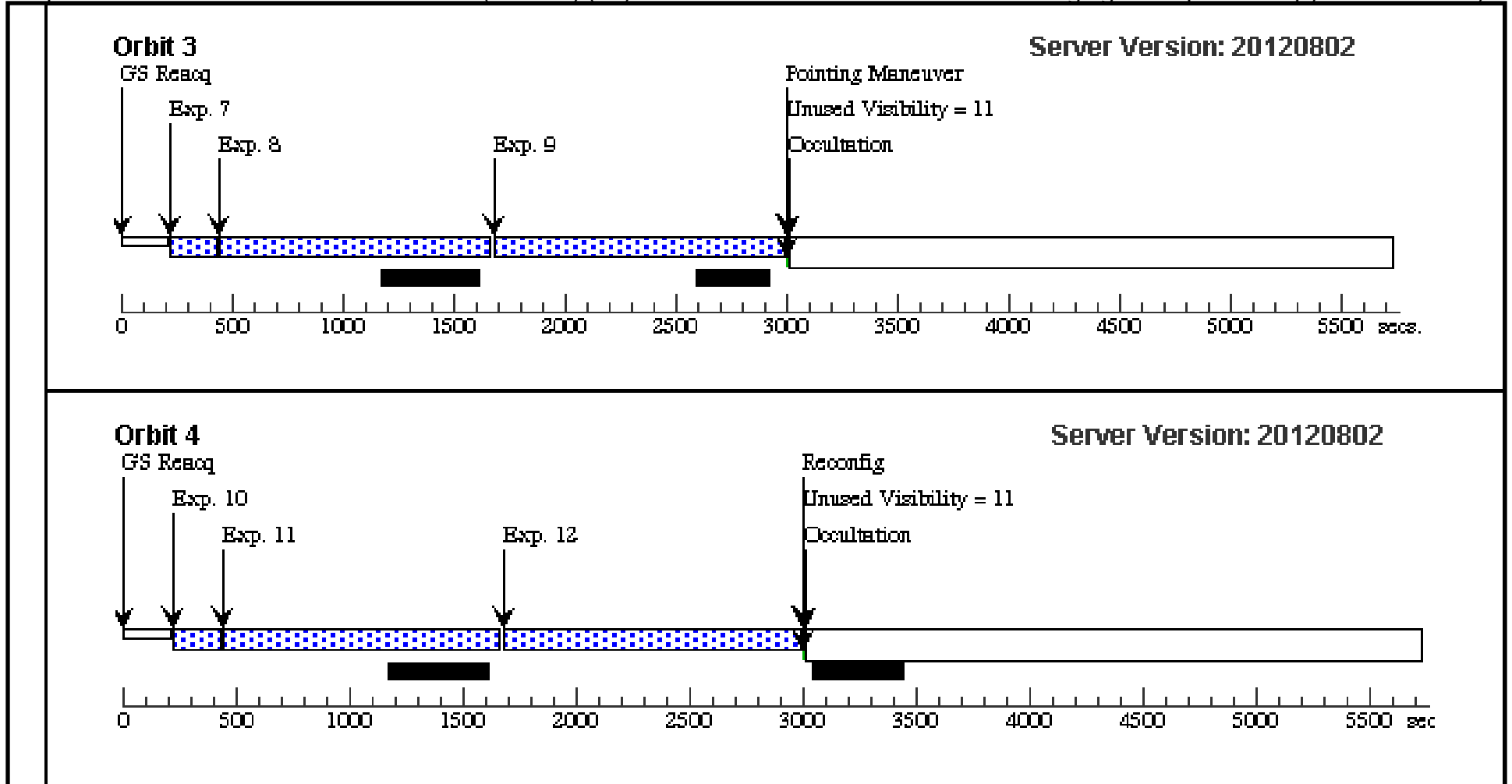
Thu Aug 16 01:17:58 GMT 2012

| Visit | <p>Proposal 12896, IRC0222B: Grism Visit 1 (4 orbits) (05), implementation</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: SCHED 100%; ORIENT 64D TO 64 D</p> <p><i>Comments: Direct imaging of high redshift galaxy cluster using F140W, then multiple exposures using Grism 141. First visit of 2 where each visit contains 4 orbits. The visits are separated by ORIENT of ~10 degrees to minimize overlapping spectra.</i></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>(2)</td> <td>IRC0222B</td> <td>RA: 02 22 17.3000 (35.5720833d) Dec: -04 21 45.00 (-4.36250d) Equinox: J2000</td> <td></td> <td>V=25 redshift=1.95</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Potentially bright star ~1.3 arcmin to Southwest</i></p> | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (2) | IRC0222B | RA: 02 22 17.3000 (35.5720833d) Dec: -04 21 45.00 (-4.36250d) Equinox: J2000 | | V=25 redshift=1.95 |
| # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | | | | |
| (2) | IRC0222B | RA: 02 22 17.3000 (35.5720833d) Dec: -04 21 45.00 (-4.36250d) Equinox: J2000 | | V=25 redshift=1.95 | Reference Frame: ICRS | | | | | | | | |

Proposal 12896 - IRC0222B: Grism Visit 1 (4 orbits) (05) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galaxy...

| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | |
|-----------|-------|-------------------|----------------------|--------------------------------|--------------|---------------------------------|---|---|-------|-----|
| Exposures | 1 | Direct F140 W-1.1 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | F140W | NSAMP=8; SAMP-SEQ=SPAR S25 | POS TARG 0,null; GS ACQ SCENARI O BASE1B3 | Sequence 1-3 Non-Int in IRC0222B: Grism Visit 1 (4 orbits) (05) | [==>] | [1] |
| | 2 | Grism G141 W-1.1 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG 0,0 | Sequence 1-3 Non-Int in IRC0222B: Grism Visit 1 (4 orbits) (05) | [==>] | [1] |
| | 3 | Grism G141 W-1.2 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG 0,0 | Sequence 1-3 Non-Int in IRC0222B: Grism Visit 1 (4 orbits) (05) | [==>] | [1] |
| | 4 | Direct F140 W-1.2 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | F140W | NSAMP=8; SAMP-SEQ=SPAR S25 | POS TARG +1.355, +0.424 | Sequence 4-6 Non-Int in IRC0222B: Grism Visit 1 (4 orbits) (05) | [==>] | [2] |
| | 5 | Grism G141 W-1.3 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG +1.355, +0.424 | Sequence 4-6 Non-Int in IRC0222B: Grism Visit 1 (4 orbits) (05) | [==>] | [2] |
| | 6 | Grism G141 W-1.4 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=14; SAMP-SEQ=SPAR S100 | POS TARG +1.355, +0.424 | Sequence 4-6 Non-Int in IRC0222B: Grism Visit 1 (4 orbits) (05) | [==>] | [2] |
| | 7 | Direct F140 W-1.3 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | F140W | NSAMP=8; SAMP-SEQ=SPAR S25 | POS TARG +0.881, +1.212 | Sequence 7-9 Non-Int in IRC0222B: Grism Visit 1 (4 orbits) (05) | [==>] | [3] |
| | 8 | Grism G141 W-1.5 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG +0.881, +1.212 | Sequence 7-9 Non-Int in IRC0222B: Grism Visit 1 (4 orbits) (05) | [==>] | [3] |
| | 9 | Grism G141 W-1.6 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=14; SAMP-SEQ=SPAR S100 | POS TARG +0.881, 1.212 | Sequence 7-9 Non-Int in IRC0222B: Grism Visit 1 (4 orbits) (05) | [==>] | [3] |
| | 10 | Direct F140 W-1.4 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | F140W | NSAMP=8; SAMP-SEQ=SPAR S25 | POS TARG -0.474,+ 0.788 | Sequence 10-12 Non-Int in IRC0222B: Grism Visit 1 (4 orbits) (05) | [==>] | [4] |
| | 11 | Grism G141 W-1.7 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG -0.474,+ 0.788 | Sequence 10-12 Non-Int in IRC0222B: Grism Visit 1 (4 orbits) (05) | [==>] | [4] |
| | 12 | Grism G141 W-1.8 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=14; SAMP-SEQ=SPAR S100 | POS TARG -0.474,+ 0.788 | Sequence 10-12 Non-Int in IRC0222B: Grism Visit 1 (4 orbits) (05) | [==>] | [4] |





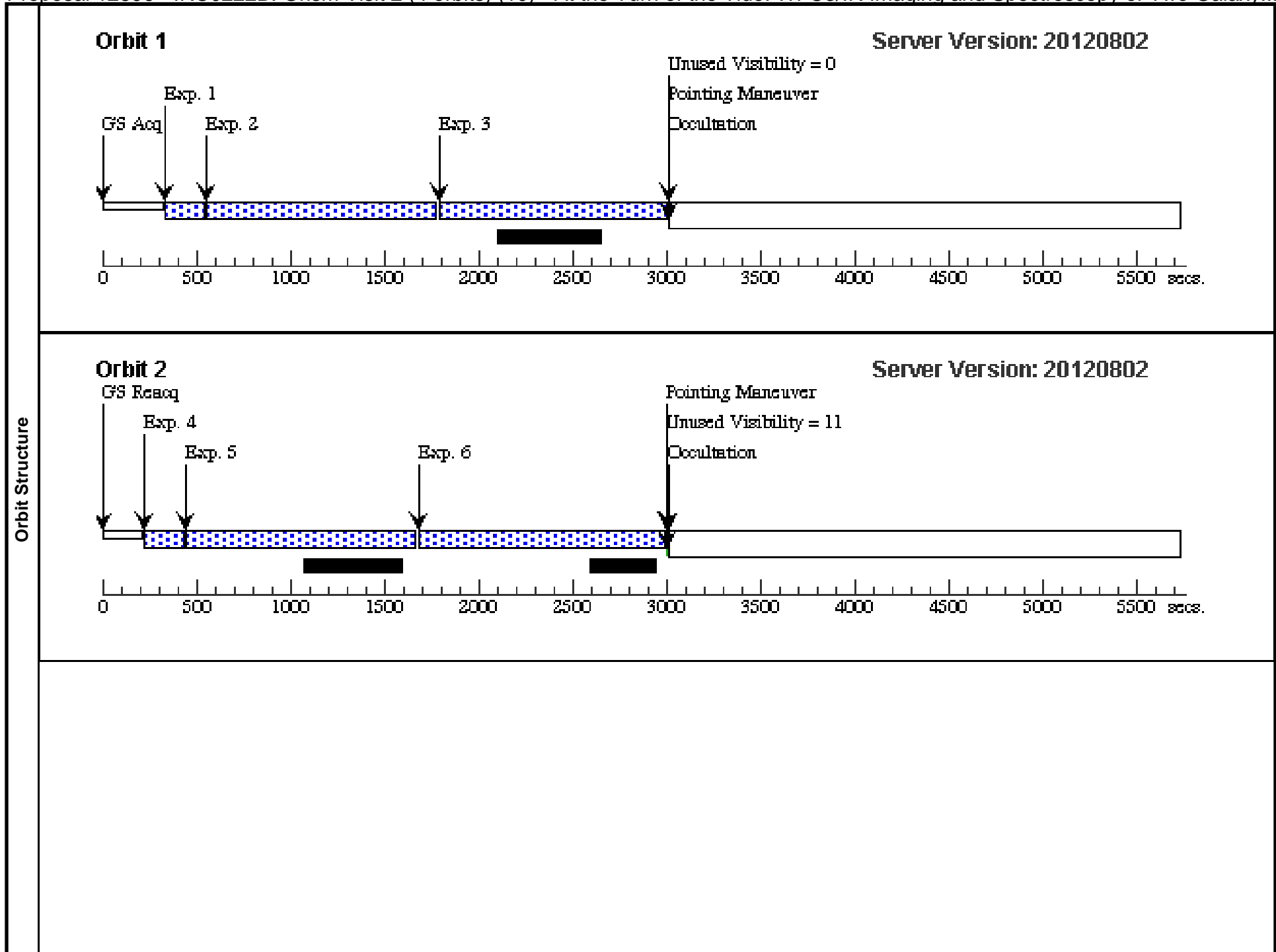
Proposal 12896 - IRC0222B: Grism Visit 2 (4 orbits) (10) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galaxy...

Thu Aug 16 01:18:02 GMT 2012

| Visit | <p>Proposal 12896, IRC0222B: Grism Visit 2 (4 orbits) (10), implementation</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: SCHED 100%; ORIENT 74D TO 74 D</p> <p><i>Comments: Direct imaging of high redshift galaxy cluster using F140W, then multiple exposures using Grism 141. Second visit of 2 where each visit contains 4 orbits. The visits are separated by ORIENT of ~10 degrees to minimize overlapping spectra.</i></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>(2)</td> <td>IRC0222B</td> <td>RA: 02 22 17.3000 (35.5720833d) Dec: -04 21 45.00 (-4.36250d) Equinox: J2000</td> <td></td> <td>V=25 redshift=1.95</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Potentially bright star ~1.3 arcmin to Southwest</i></p> | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (2) | IRC0222B | RA: 02 22 17.3000 (35.5720833d) Dec: -04 21 45.00 (-4.36250d) Equinox: J2000 | | V=25 redshift=1.95 |
| # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | | | | |
| (2) | IRC0222B | RA: 02 22 17.3000 (35.5720833d) Dec: -04 21 45.00 (-4.36250d) Equinox: J2000 | | V=25 redshift=1.95 | Reference Frame: ICRS | | | | | | | | |

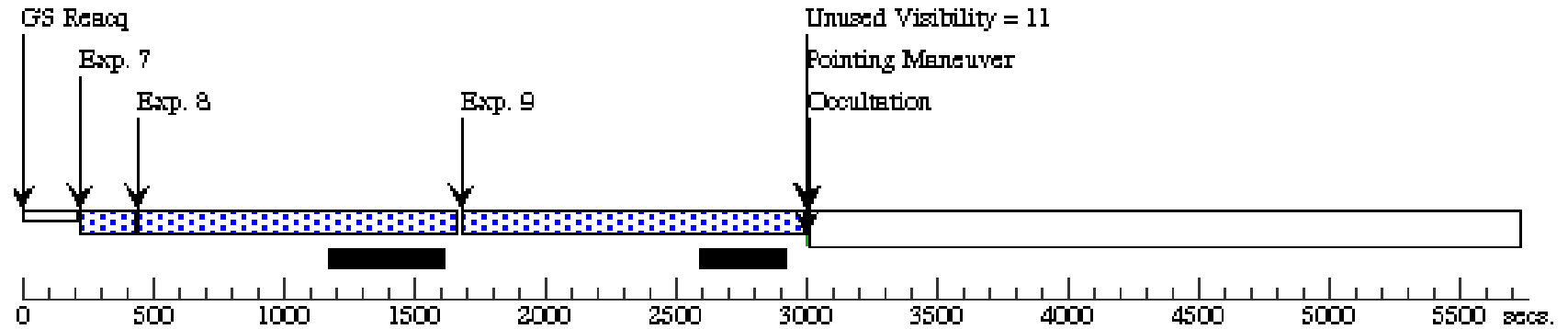
Proposal 12896 - IRC0222B: Grism Visit 2 (4 orbits) (10) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galaxy...

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
|-----------|------------------|-------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|---|---|-------------------------|-------|
| | 1 | Direct F140 W-2.2 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | F140W | NSAMP=8; SAMP-SEQ=SPAR S25 | POS TARG +1.355, +0.424; GS ACQ SCENARIO BASE1B3 | Sequence 1-3 Non-Int in IRC0222B: Grism Visit 2 (4 orbits) (10) | [==>] | [1] |
| | 2 | Grism G141 W-2.3 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG +1.355, +0.424 | Sequence 1-3 Non-Int in IRC0222B: Grism Visit 2 (4 orbits) (10) | [==>] | [1] |
| | 3 | Grism G141 W-2.4 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG +1.355, +0.424 | Sequence 1-3 Non-Int in IRC0222B: Grism Visit 2 (4 orbits) (10) | [==>] | [1] |
| | 4 | Direct F140 W-2.1 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | F140W | NSAMP=8; SAMP-SEQ=SPAR S25 | POS TARG 0,null | Sequence 4-6 Non-Int in IRC0222B: Grism Visit 2 (4 orbits) (10) | [==>] | [2] |
| | 5 | Grism G141 W-2.1 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG 0,0 | Sequence 4-6 Non-Int in IRC0222B: Grism Visit 2 (4 orbits) (10) | [==>] | [2] |
| | 6 | Grism G141 W-2.2 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=14; SAMP-SEQ=SPAR S100 | POS TARG 0,0 | Sequence 4-6 Non-Int in IRC0222B: Grism Visit 2 (4 orbits) (10) | [==>] | [2] |
| | 7 | Direct F140 W-2.3 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | F140W | NSAMP=8; SAMP-SEQ=SPAR S25 | POS TARG +0.881, +1.212 | Sequence 7-9 Non-Int in IRC0222B: Grism Visit 2 (4 orbits) (10) | [==>] | [3] |
| | 8 | Grism G141 W-2.5 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG +0.881, +1.212 | Sequence 7-9 Non-Int in IRC0222B: Grism Visit 2 (4 orbits) (10) | [==>] | [3] |
| | 9 | Grism G141 W-2.6 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=14; SAMP-SEQ=SPAR S100 | POS TARG +0.881, 1.212 | Sequence 7-9 Non-Int in IRC0222B: Grism Visit 2 (4 orbits) (10) | [==>] | [3] |
| | 10 | Direct F140 W-2.4 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | F140W | NSAMP=8; SAMP-SEQ=SPAR S25 | POS TARG -0.474,+0.788 | Sequence 10-12 Non-Int in IRC0222B: Grism Visit 2 (4 orbits) (10) | [==>] | [4] |
| | 11 | Grism G141 W-2.7 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=13; SAMP-SEQ=SPAR S100 | POS TARG -0.474,+0.788 | Sequence 10-12 Non-Int in IRC0222B: Grism Visit 2 (4 orbits) (10) | [==>] | [4] |
| 12 | Grism G141 W-2.8 | (2) IRC0222B | WFC3/IR, MULTIACCUM, GRISM1024 | G141 | NSAMP=14; SAMP-SEQ=SPAR S100 | POS TARG -0.474,+0.788 | Sequence 10-12 Non-Int in IRC0222B: Grism Visit 2 (4 orbits) (10) | [==>] | [4] | |



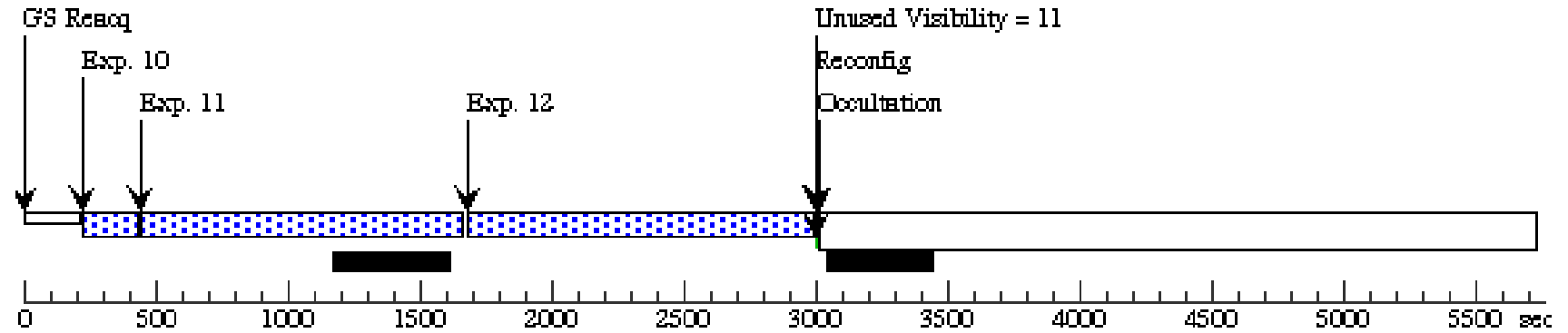
Orbit 3

Server Version: 20120802



Orbit 4

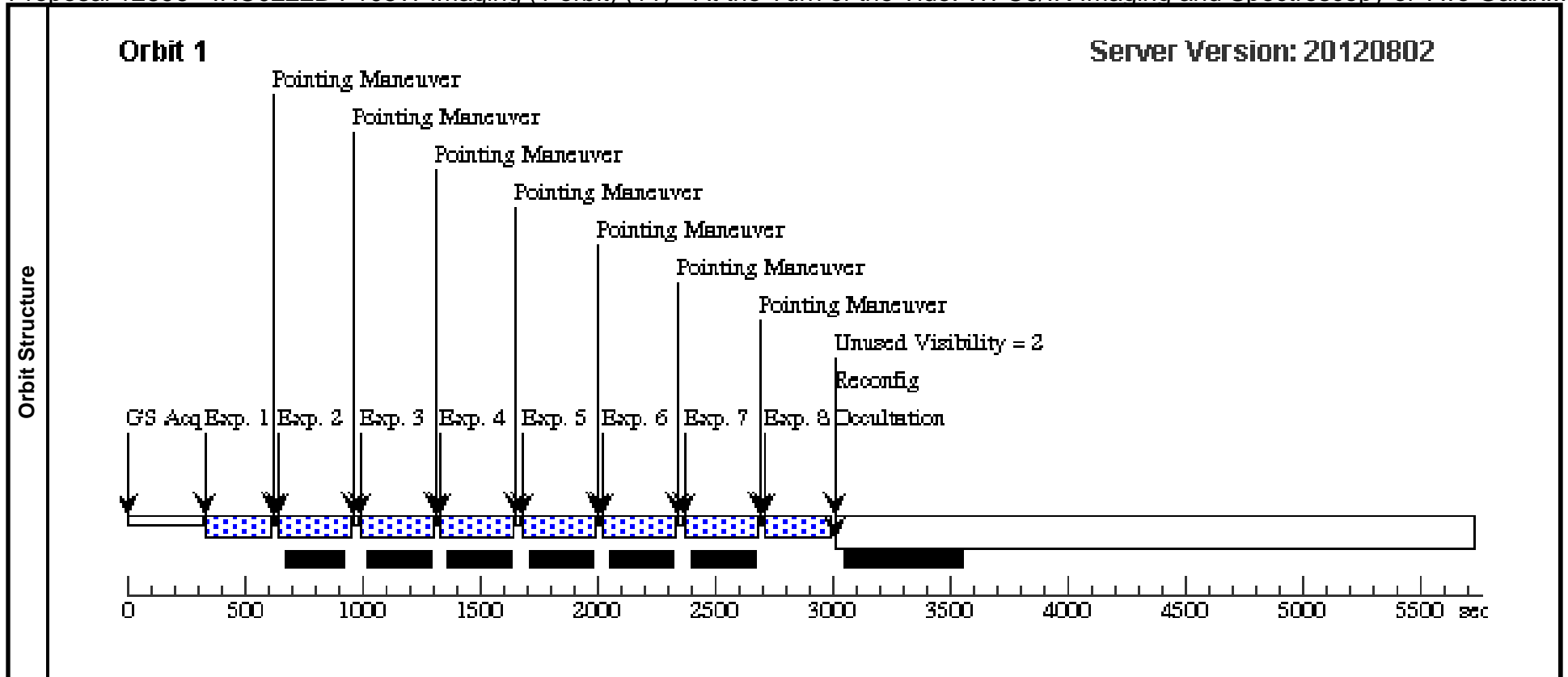
Server Version: 20120802



Proposal 12896 - IRC0222B F105W Imaging (1 orbit) (11) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of Two Galax...

Thu Aug 16 01:18:05 GMT 2012

| Visit | Proposal 12896, IRC0222B F105W Imaging (1 orbit) (11), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ORIENT 64D TO 74 D Comments: <i>Imaging of high redshift cluster in 3 orbits split between F105W (1 orbit), F125W (2/3 orbit), and F160W (4/3 orbit)</i> | | | | | | | | | | | | | | | | | | | | | |
|-----------|--|---|--------------------------|-------------------------|-----------------------|-----------------------------------|--|---|-------------------------|-------|--|---|------|--------------------|--------------------------|--------|---------------|-----|----------|--|--|-----------------------|
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| # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | | | | | | | | | | | | | |
| (2) | IRC0222B | RA: 02 22 17.3000 (35.5720833d) Dec: -04 21 45.00 (-4.36250d) Equinox: J2000 | | V=25 redshift=1.95 | Reference Frame: ICRS | | | | | | | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | | | | | | | | | | | | |
| | 1 | F105W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=11; SAMP-SEQ=SPAR S25 | POS TARG 0,0; GS ACQ SCENARI O BASE1B3 | Sequence 1-4 Non-Int in IRC0222B F105W Imaging (1 orbit) (11) | [==>] | [1] | | | | | | | | | | | | |
| | 2 | F105W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=12; SAMP-SEQ=SPAR S25 | POS TARG -0.3387, +0.1816 | Sequence 1-4 Non-Int in IRC0222B F105W Imaging (1 orbit) (11) | [==>] | [1] | | | | | | | | | | | | |
| | 3 | F105W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=12; SAMP-SEQ=SPAR S25 | POS TARG -6.666,+ 6.0187 | Sequence 1-4 Non-Int in IRC0222B F105W Imaging (1 orbit) (11) | [==>] | [1] | | | | | | | | | | | | |
| | 4 | F105W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=12; SAMP-SEQ=SPAR S25 | POS TARG -7.0054, +6.2003 | Sequence 1-4 Non-Int in IRC0222B F105W Imaging (1 orbit) (11) | [==>] | [1] | | | | | | | | | | | | |
| | 5 | F105W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=12; SAMP-SEQ=SPAR S25 | POS TARG 0,0 | Sequence 5-8 Non-Int in IRC0222B F105W Imaging (1 orbit) (11) | [==>] | [1] | | | | | | | | | | | | |
| | 6 | F105W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=12; SAMP-SEQ=SPAR S25 | POS TARG -0.3387, +0.1816 | Sequence 5-8 Non-Int in IRC0222B F105W Imaging (1 orbit) (11) | [==>] | [1] | | | | | | | | | | | | |
| | 7 | F105W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=12; SAMP-SEQ=SPAR S25 | POS TARG -6.666,+ 6.0187 | Sequence 5-8 Non-Int in IRC0222B F105W Imaging (1 orbit) (11) | [==>] | [1] | | | | | | | | | | | | |
| | 8 | F105W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR | F105W | NSAMP=11; SAMP-SEQ=SPAR S25 | POS TARG -7.0054, +6.2003 | Sequence 5-8 Non-Int in IRC0222B F105W Imaging (1 orbit) (11) | [==>] | [1] | | | | | | | | | | | | |



Proposal 12896 - IRC0222B F125W & F160W Imaging (2 orbits) (12) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of...

| | | | | | | |
|---|--|-------------|--|---------------------------------|-----------------------|-----------------------|
| Visit | Proposal 12896, IRC0222B F125W & F160W Imaging (2 orbits) (12), implementation Thu Aug 16 01:18:06 GMT 2012 | | | | | |
| | Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SCHED 100%; ORIENT 64D TO 74 D <i>Comments: Imaging of high redshift cluster in 3 orbits split between F105W (1 orbit), F125W (2/3 orbit), and F160W (4/3 orbit)</i> | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous |
| | (2) | IRC0222B | RA: 02 22 17.3000 (35.5720833d) Dec: -04 21 45.00 (-4.36250d) Equinox: J2000 | | V=25 redshift=1.95 | Reference Frame: ICRS |
| <i>Comments: Potentially bright star ~1.3 arcmin to Southwest</i> | | | | | | |

Proposal 12896 - IRC0222B F125W & F160W Imaging (2 orbits) (12) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of...

| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
|----|-------|--------------|-----------------------------|---------------|-----------------------------------|--|---|-------------------------|-------|
| 1 | F125W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=10; SAMP-SEQ=SPAR S25 | POS TARG 0,0; GS ACQ SCENARI O BASE1B3 | Sequence 1-8 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [1] |
| 2 | F125W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=10; SAMP-SEQ=SPAR S25 | POS TARG -0.3387, +0.1816 | Sequence 1-8 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [1] |
| 3 | F125W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=10; SAMP-SEQ=SPAR S25 | POS TARG -6.6666, +6.0187 | Sequence 1-8 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [1] |
| 4 | F125W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=10; SAMP-SEQ=SPAR S25 | POS TARG -7.0054, +6.2003 | Sequence 1-8 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [1] |
| 5 | F160W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=13; SAMP-SEQ=SPAR S25 | POS TARG 0,0 | Sequence 1-8 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [1] |
| 6 | F160W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=13; SAMP-SEQ=SPAR S25 | POS TARG -0.3387, +0.1816 | Sequence 1-8 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [1] |
| 7 | F160W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=13; SAMP-SEQ=SPAR S25 | POS TARG -6.6666, +6.0187 | Sequence 1-8 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [1] |
| 8 | F160W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=13; SAMP-SEQ=SPAR S25 | POS TARG -7.0054, +6.2003 | Sequence 1-8 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [1] |
| 9 | F160W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=15; SAMP-SEQ=SPAR S25 | POS TARG 0,0 | Sequence 9-16 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [2] |
| 10 | F160W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=15; SAMP-SEQ=SPAR S25 | POS TARG -0.3387, +0.1816 | Sequence 9-16 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [2] |
| 11 | F125W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=5; SAMP-SEQ=SPAR S25 | POS TARG 0,0 | Sequence 9-16 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [2] |
| 12 | F160W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=15; SAMP-SEQ=SPAR S25 | POS TARG -6.6666, +6.0187 | Sequence 9-16 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [2] |
| 13 | F125W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=5; SAMP-SEQ=SPAR S25 | POS TARG -0.3387, +0.1816 | Sequence 9-16 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [2] |
| 14 | F160W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F160W | NSAMP=15; SAMP-SEQ=SPAR S25 | POS TARG -7.0054, +6.2003 | Sequence 9-16 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [2] |

Proposal 12896 - IRC0222B F125W & F160W Imaging (2 orbits) (12) - At the Turn of the Tide: WFC3/IR Imaging and Spectroscopy of...

| | | | | | | | | | |
|----|-------|--------------|-----------------------------|-------|----------------------------------|------------------------------|---|-------|-----|
| 15 | F125W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=5; SAMP-SEQ=SPAR S25 | POS TARG -6.6666, +6.0187 | Sequence 9-16 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [2] |
| 16 | F125W | (2) IRC0222B | WFC3/IR, MULTIACCUM, IR-FIX | F125W | NSAMP=5; SAMP-SEQ=SPAR S25 | POS TARG -7.0054, +6.2003 | Sequence 9-16 Non-Int in IRC0222B F125W & F160W Imaging (2 orbits) (12) | [==>] | [2] |

