



## 10574 - Witnessing Galaxy Transformation in Galaxy Groups at $z > 1$

Cycle: 14, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

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|-------------------------------------|---|--------------------------|
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### 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           | ANY<br>(1) GROUP1 | ACS/WFC<br>WFPC2      | 3                  | 23-Nov-2005 21:22:43.0        | yes                           |

Proposal 10574 - 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> |
|--------------|-------------------|-----------------------|--------------------|-------------------------------|-------------------------------|
| 02           | ANY<br>(1) GROUP1 | ACS/WFC<br>WFPC2      | 5                  | 23-Nov-2005 21:23:01.0        | yes                           |
| 03           | (2) GROUP3<br>ANY | ACS/WFC<br>WFPC2      | 3                  | 23-Nov-2005 21:23:12.0        | yes                           |
| 04           | (2) GROUP3<br>ANY | ACS/WFC<br>WFPC2      | 5                  | 23-Nov-2005 21:23:26.0        | yes                           |
| 05           | (3) GROUP2<br>ANY | ACS/WFC<br>WFPC2      | 3                  | 23-Nov-2005 21:23:36.0        | yes                           |
| 06           | (3) GROUP2<br>ANY | ACS/WFC<br>WFPC2      | 5                  | 23-Nov-2005 21:23:48.0        | yes                           |
| 07           | (4) GROUP6<br>ANY | ACS/WFC<br>WFPC2      | 3                  | 23-Nov-2005 21:24:01.0        | yes                           |
| 08           | (4) GROUP6<br>ANY | ACS/WFC<br>WFPC2      | 5                  | 23-Nov-2005 21:24:13.0        | yes                           |
| 09           | (5) GROUP7<br>ANY | ACS/WFC<br>WFPC2      | 3                  | 23-Nov-2005 21:24:25.0        | yes                           |
| 10           | (5) GROUP7<br>ANY | ACS/WFC<br>WFPC2      | 5                  | 23-Nov-2005 21:24:37.0        | yes                           |

40 Total Orbits Used

**ABSTRACT**

The recent discover of five galaxy groups in the Lynx supercluster region offers us the exciting opportunity to observe for the first time groups in the process of collapsing into a merging pair of clusters at  $z > 1$ .

Our current picture of structure formation suggests that substantial evolution of galaxy properties can occur in groups and filaments well before they

## Proposal 10574 - Overview

enter the environs of massive clusters. However, neither current theoretical models nor observations give us a complete understanding of the relative importance of the different physical processes that control the structural and spectral transformations that occur prior to, during, and after infall into a dense environment.

We propose direct observation of these newly discovered dynamically young structures in the Lynx region, in order to provide a critical benchmark in testing not only whether galaxy evolution occurs mostly prior to entry into the densest regions but will also constrain the relative importance of initial conditions in determining the fate of galaxy systems.

Our analysis of these proposed ACS measurements will be complemented with an unique dataset we have already in the optical, infrared, mid-infrared, and X-ray.

### **OBSERVING DESCRIPTION**

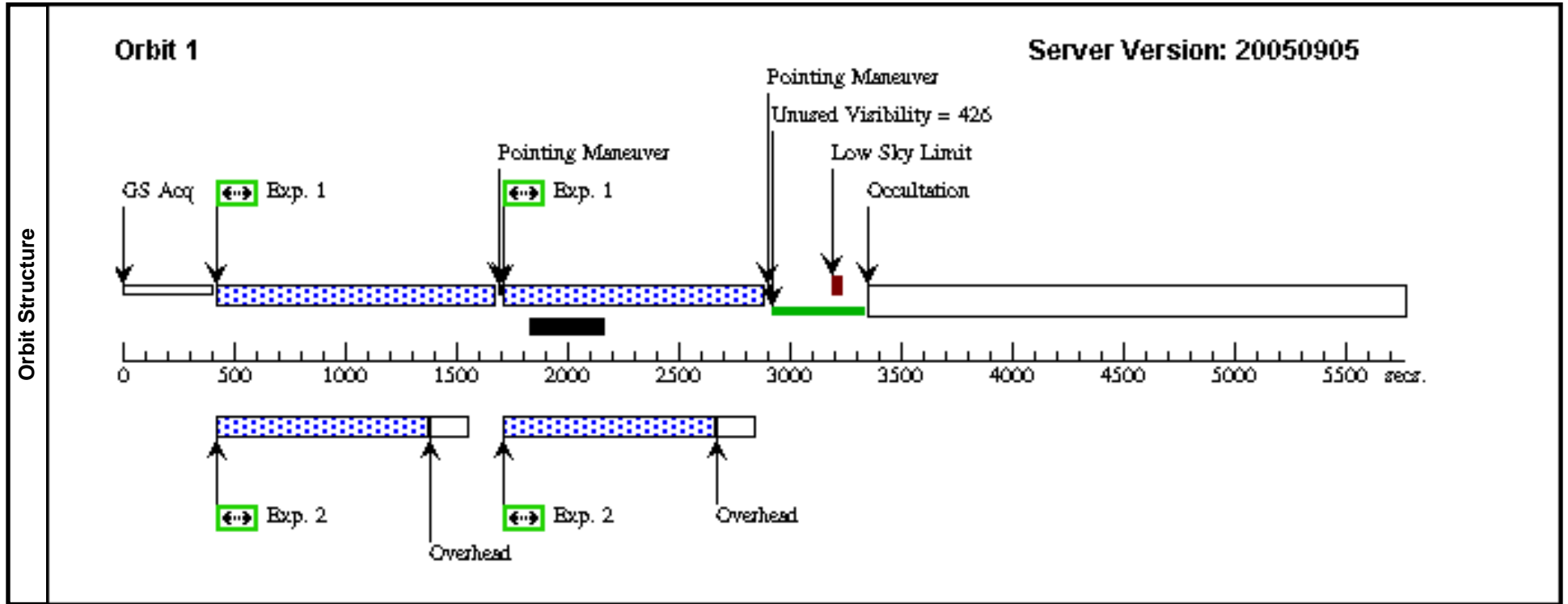
Two color imaging of five high redshift groups in eight pointings each.

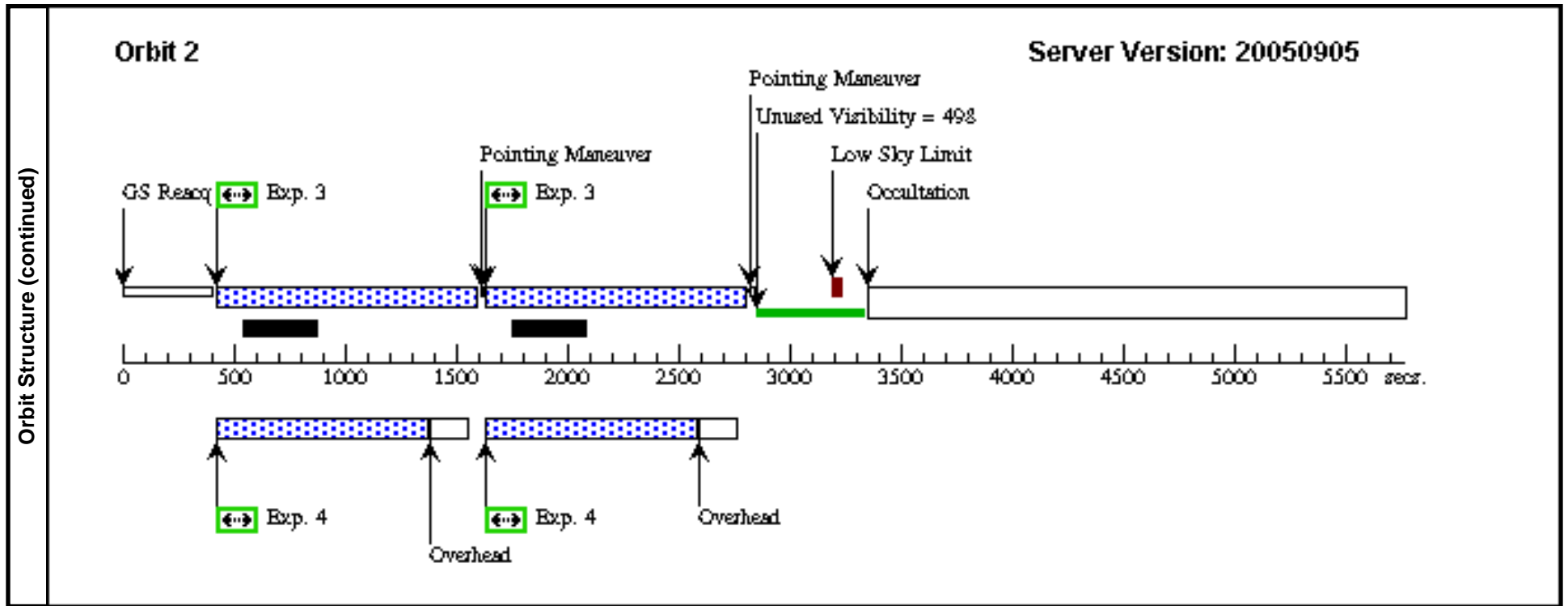
Parallels requested for each pointing

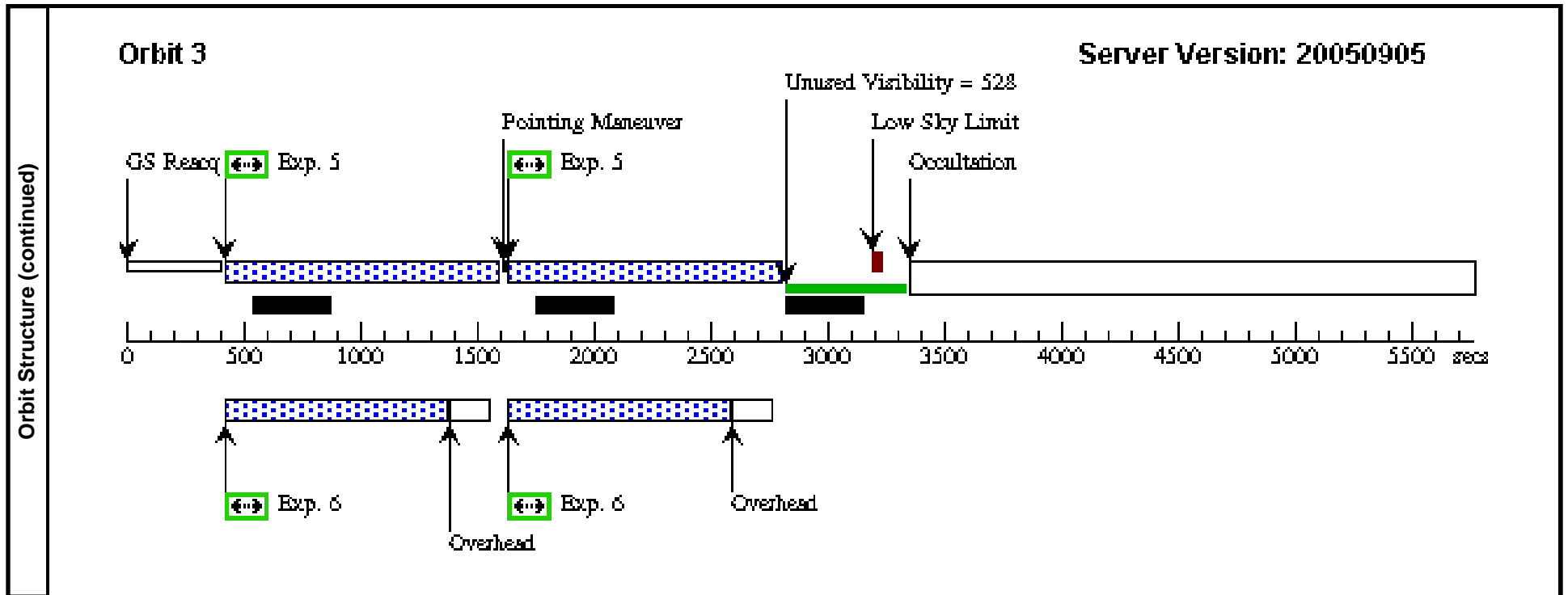
Proposal 10574 - Visit 01 - Witnessing Galaxy Transformation in Galaxy Groups at z > 1

Thu Nov 24 02:24:41 GMT 2005

| Visit         | <b>Proposal 10574, Visit 01</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: ACS/WFC, WFPC2<br>Special Requirements: (none)<br>Comments: Group 1 i-band sequence |  |   |                          |                     |                                       |                               |   |   |       |
|---------------|--|--|---|--------------------------|---------------------|---------------------------------------|-------------------------------|---|---|-------|
|               | Patterns   | #  | Primary Pattern   | Secondary Pattern        | Exposures           |                                       |                               |   |   |       |
|               | (1)  | Pattern Type=ACS-WFC-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=3.011<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=85.3<br>Angle Between Sides=<br>Center Pattern=false |                          | (1-2), (3-4), (5-6) |                                       |                               |   |   |       |
| Fixed Targets | #  | Name   | Target Coordinates  | Targ. Coord. Corrections | Fluxes              | Miscellaneous                         |                               |   |   |       |
|               | (1)  | GROUP1   | RA: 08 49 11.4350 (132.2976458d)<br>Dec: +44 52 34.86 (44.87635d)<br>Equinox: J2000<br>Plate Id: (?)  |                          | V=24.0              | Coordinate Source: Nakata et al. 2005 |                               |   |   |       |
| Exposures     | #  | Label  | Target  | Config,Mode,Aperture     | Spectral Els.       | Opt. Params.                          | Special Reqs.                 | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|               | 1  | group1-iban<br>d-orbit1  | (1) GROUP1  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG 0,0;<br>LOW-SKY      | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 1000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [1]   |
|               | 2  | wfc2par-g1-<br>i-o1  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 800.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]    | [1]   |
|               | 3  | group1-iban<br>d-orbit2  | (1) GROUP1  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG 0.25,-3;<br>LOW-SKY  | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 1000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [2]   |
|               | 4  | wfc2par-g1-<br>i-o2  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 800.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]    | [2]   |
|               | 5  | group1-iban<br>d-orbit3  | (1) GROUP1  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG -0.25,-3;<br>LOW-SKY | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 1000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [3]   |
|               | 6  | wfc2par-g1-<br>i-o3  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 800.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]    | [3]   |







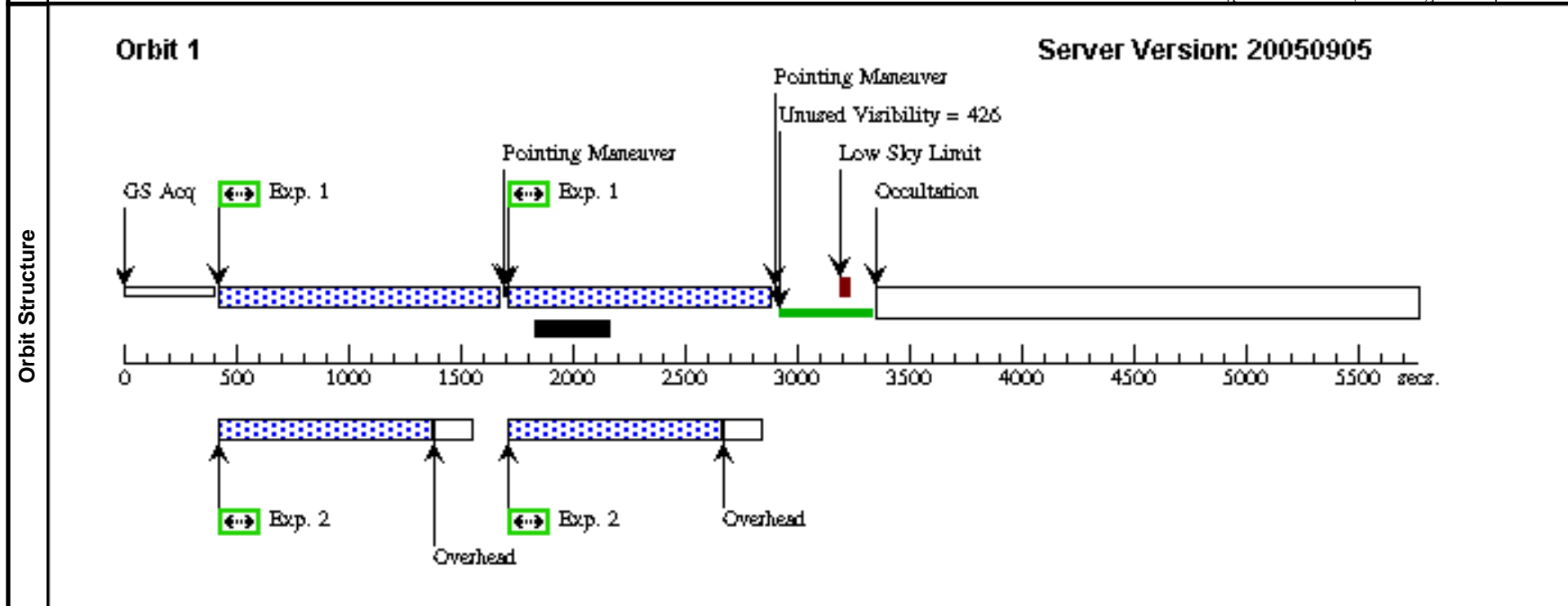
Proposal 10574 - Visit 02 - Witnessing Galaxy Transformation in Galaxy Groups at z > 1

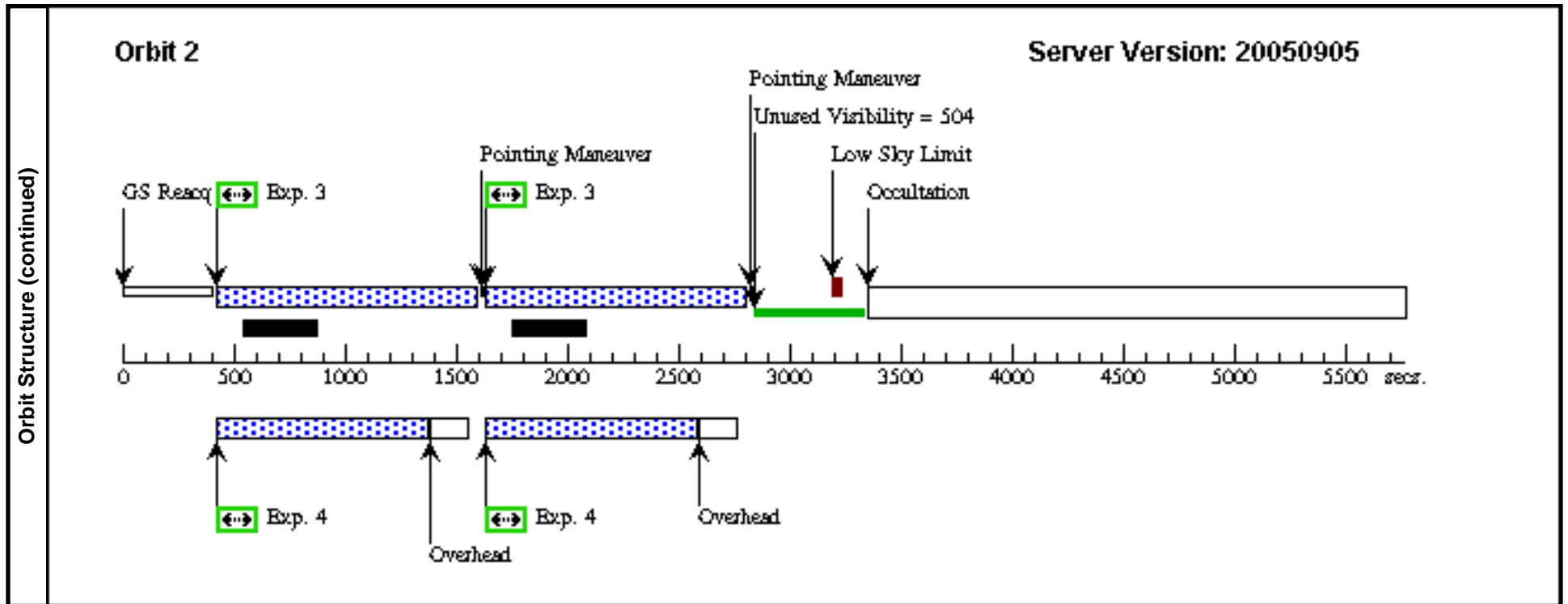
Thu Nov 24 02:24:44 GMT 2005

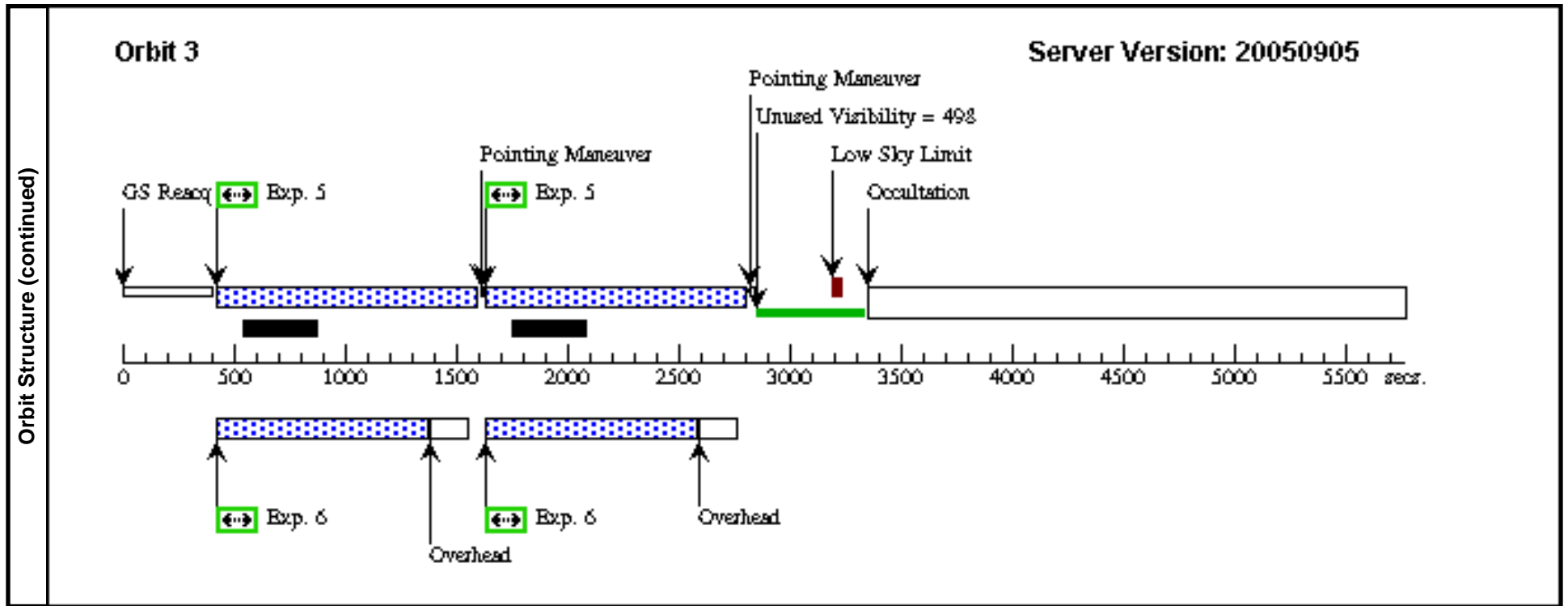
| Visit         | <b>Proposal 10574, Visit 02</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: ACS/WFC, WFPC2<br>Special Requirements: SAME ORIENT AS 01<br>Comments: Group 1 z-band sequence |  |   |                          |                                    |                                       |                             |   |   |       |
|---------------|---|--|---|--------------------------|------------------------------------|---------------------------------------|-----------------------------|---|---|-------|
|               | Patterns  | #  | Primary Pattern   | Secondary Pattern        | Exposures                          |                                       |                             |   |   |       |
|               | (1)   | Pattern Type=ACS-WFC-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=3.011<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=85.3<br>Angle Between Sides=<br>Center Pattern=false |                          | (1-2), (3-4), (5-6), (7-8), (9-10) |                                       |                             |   |   |       |
| Fixed Targets | #   | Name   | Target Coordinates  | Targ. Coord. Corrections | Fluxes                             | Miscellaneous                         |                             |   |   |       |
|               | (1)   | GROUP1   | RA: 08 49 11.4350 (132.2976458d)<br>Dec: +44 52 34.86 (44.87635d)<br>Equinox: J2000<br>Plate Id: (?)  |                          | V=24.0                             | Coordinate Source: Nakata et al. 2005 |                             |   |   |       |
| Exposures     | #   | Label  | Target  | Config,Mode,Aperture     | Spectral Els.                      | Opt. Params.                          | Special Reqs.               | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|               | 1   | group1-zband-orbit1  | (1) GROUP1  | ACS/WFC, ACCUM, WFC      | F850LP                             | CR-SPLIT=NO                           | POS TARG 0,0;<br>LOW-SKY    | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [1]   |
|               | 2   | wfc2par-g1-z-01  | ANY   | WFPC2, IMAGE, PC1        | F814W                              | CR-SPLIT=NO                           |                             | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [1]   |
|               | 3   | group1-zband-orbit2  | (1) GROUP1  | ACS/WFC, ACCUM, WFC      | F850LP                             | CR-SPLIT=NO                           | POS TARG 0.25,3;<br>LOW-SKY | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [2]   |
|               | 4   | wfc2par-g1-z-02  | ANY   | WFPC2, IMAGE, PC1        | F814W                              | CR-SPLIT=NO                           |                             | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [2]   |
|               | 5   | group1-zband-orbit3  | (1) GROUP1  | ACS/WFC, ACCUM, WFC      | F850LP                             | CR-SPLIT=NO                           | POS TARG 0.5,3;<br>LOW-SKY  | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [3]   |
|               | 6   | wfc2par-g1-z-03  | ANY   | WFPC2, IMAGE, PC1        | F814W                              | CR-SPLIT=NO                           |                             | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [3]   |

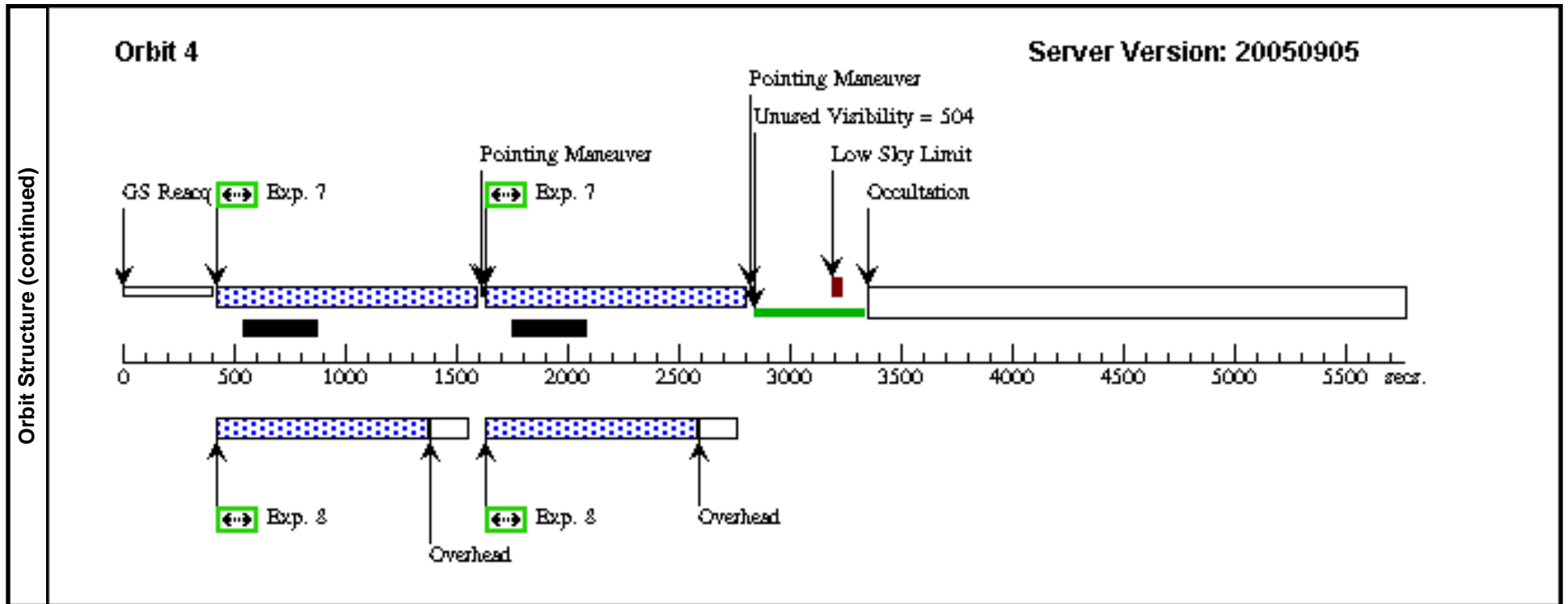
Proposal 10574 - Visit 02 - Witnessing Galaxy Transformation in Galaxy Groups at  $z > 1$

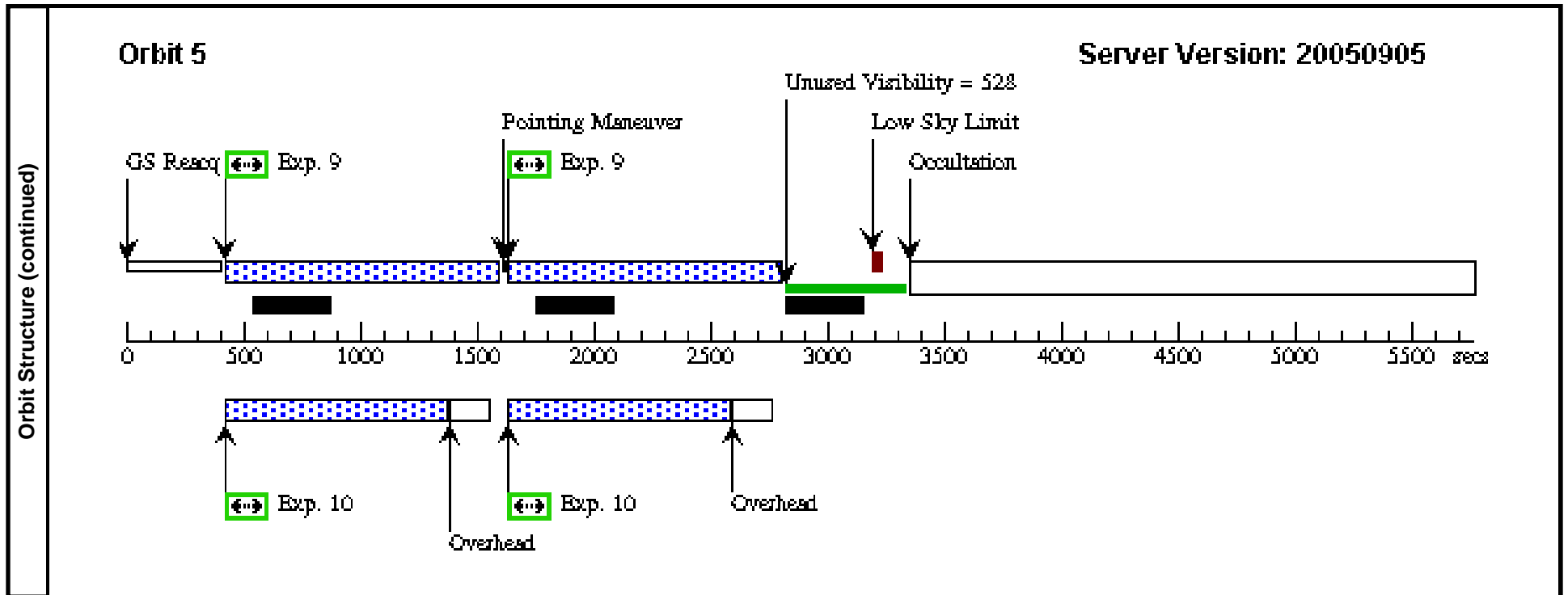
| #                     | Label | Target                  | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.                 | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|-----------------------|-------|-------------------------|-----------------------------------|---------------|--------------|-------------------------------|---|---|-------|
| Exposures (continued) | 7     | group1-zban<br>d-orbit4 | (1) GROUP1<br>ACS/WFC, ACCUM, WFC | F850LP        | CR-SPLIT=NO  | POS TARG -0.25,-3;<br>LOW-SKY | Pattern 7-8 (1)<br>Prime + Parallel Gro<br>up 7-8   | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [4]   |
|                       | 8     | wfc2par-g1-<br>z-o4     | ANY<br>WFPC2, IMAGE, PC1          | F814W         | CR-SPLIT=NO  |                               | Pattern 7-8 (1)<br>Prime + Parallel Gro<br>up 7-8   | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [4]   |
|                       | 9     | group1-zban<br>d-orbit5 | (1) GROUP1<br>ACS/WFC, ACCUM, WFC | F850LP        | CR-SPLIT=NO  | POS TARG -0.5,-3;<br>LOW-SKY  | Pattern 9-10 (1)<br>Prime + Parallel Gro<br>up 9-10 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [5]   |
|                       | 10    | wfc2par-g1-<br>z-o5     | ANY<br>WFPC2, IMAGE, PC1          | F814W         | CR-SPLIT=NO  |                               | Pattern 9-10 (1)<br>Prime + Parallel Gro<br>up 9-10 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [5]   |







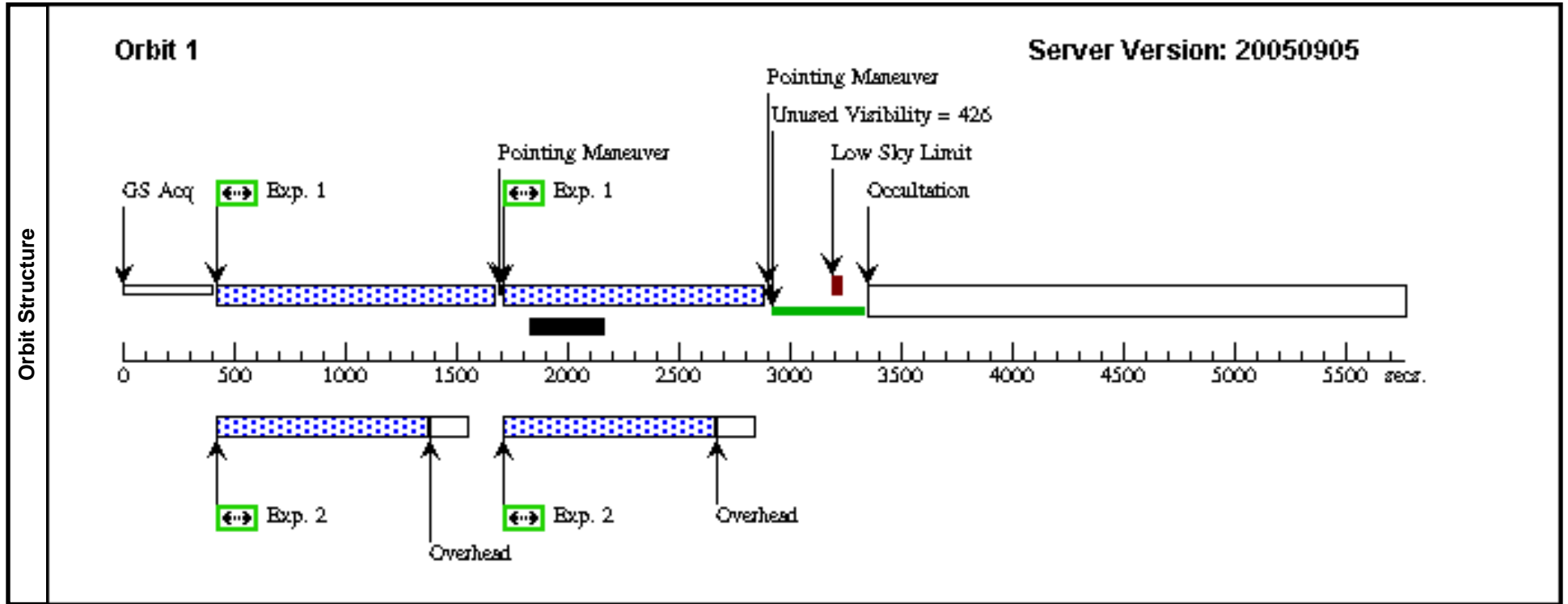


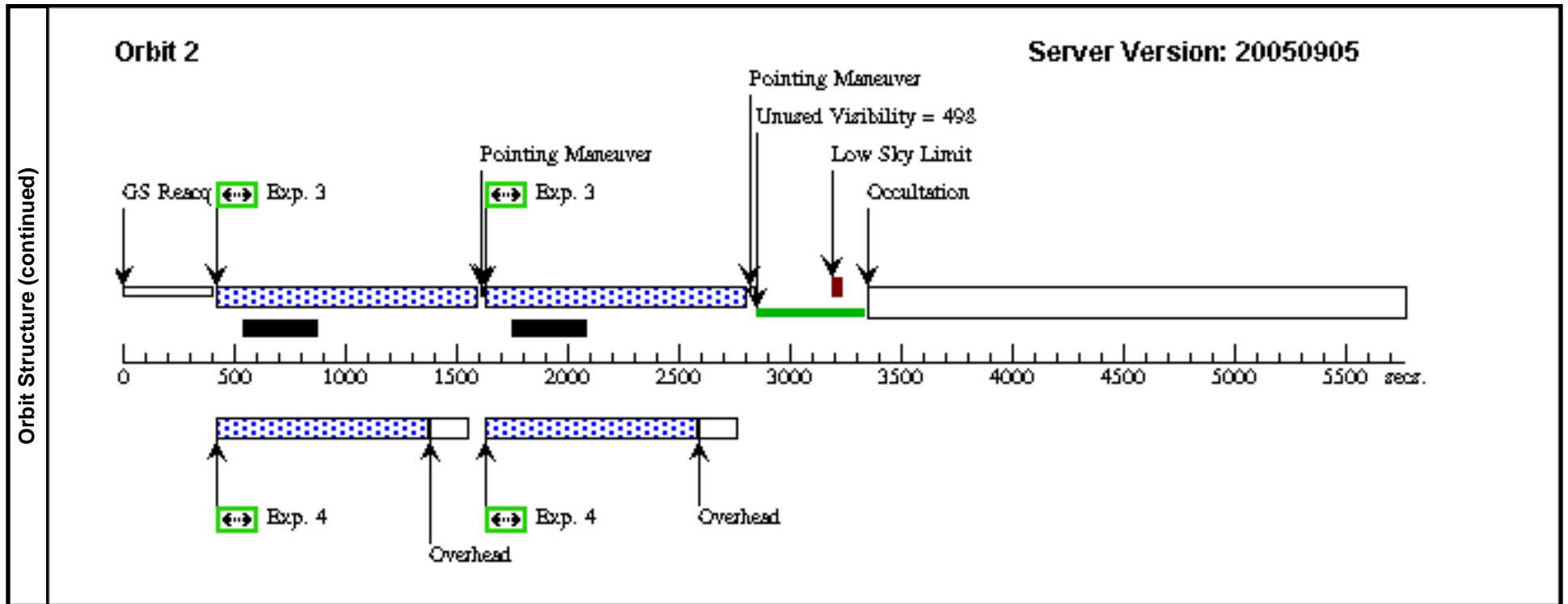


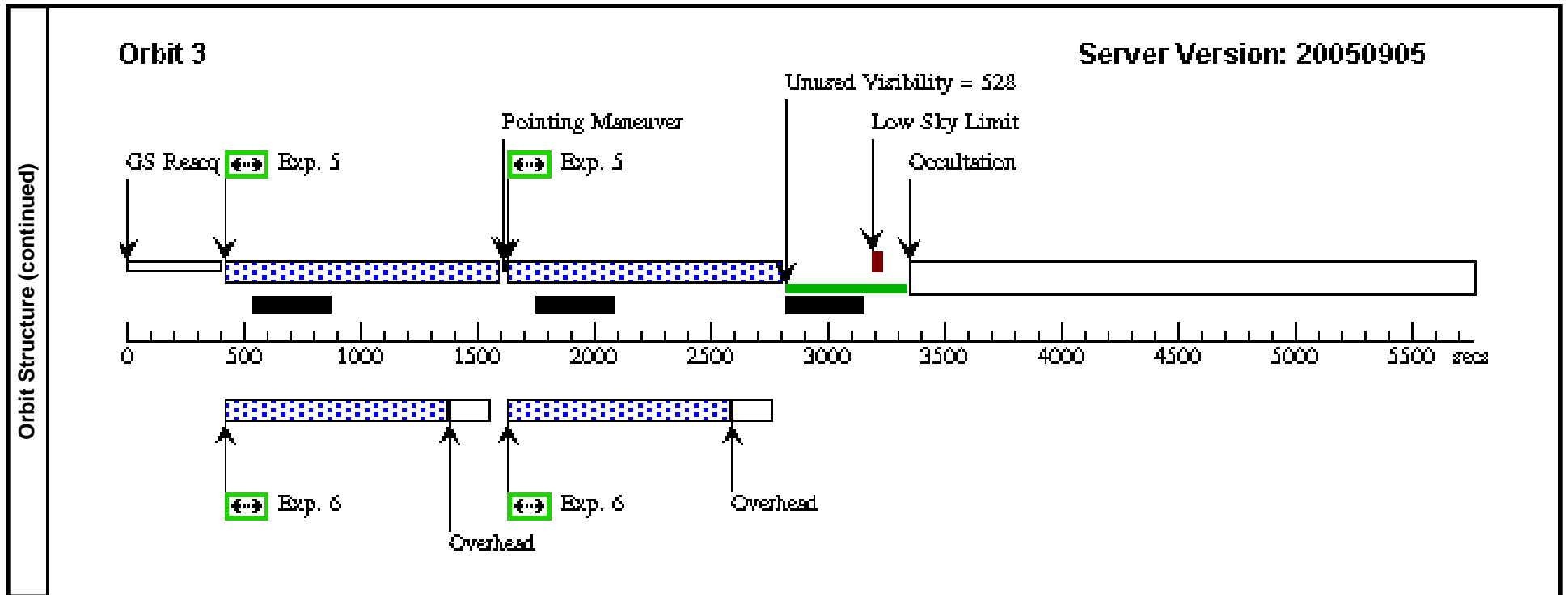
Proposal 10574 - Visit 03 - Witnessing Galaxy Transformation in Galaxy Groups at z > 1

Thu Nov 24 02:24:45 GMT 2005

| Visit         | <b>Proposal 10574, Visit 03</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: ACS/WFC, WFPC2<br>Special Requirements: (none)<br>Comments: Group 3 i-band sequence |  |   |                          |                     |                                       |                               |   |   |       |
|---------------|--|--|---|--------------------------|---------------------|---------------------------------------|-------------------------------|---|---|-------|
|               | Patterns   | #  | Primary Pattern   | Secondary Pattern        | Exposures           |                                       |                               |   |   |       |
|               | (1)  | Pattern Type=ACS-WFC-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=3.011<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=85.3<br>Angle Between Sides=<br>Center Pattern=false |                          | (1-2), (3-4), (5-6) |                                       |                               |   |   |       |
| Fixed Targets | #  | Name   | Target Coordinates  | Targ. Coord. Corrections | Fluxes              | Miscellaneous                         |                               |   |   |       |
|               | (2)  | GROUP3   | RA: 08 48 57.6410 (132.2401708d)<br>Dec: +44 45 48.14 (44.76337d)<br>Equinox: J2000<br>Plate Id: (?)  |                          | V=24.0              | Coordinate Source: Nakata et al. 2005 |                               |   |   |       |
| Exposures     | #  | Label  | Target  | Config,Mode,Aperture     | Spectral Els.       | Opt. Params.                          | Special Reqs.                 | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|               | 1  | group3-iband-orbit1  | (2) GROUP3  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG 0,0;<br>LOW-SKY      | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [1]   |
|               | 2  | wfc2par-g3-i-01  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [1]   |
|               | 3  | group3-iband-orbit2  | (2) GROUP3  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG 0.25,-3;<br>LOW-SKY  | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [2]   |
|               | 4  | wfc2par-g3-i-02  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [2]   |
|               | 5  | group3-iband-orbit3  | (2) GROUP3  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG -0.25,-3;<br>LOW-SKY | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [3]   |
|               | 6  | wfc2par-g3-i-03  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [3]   |







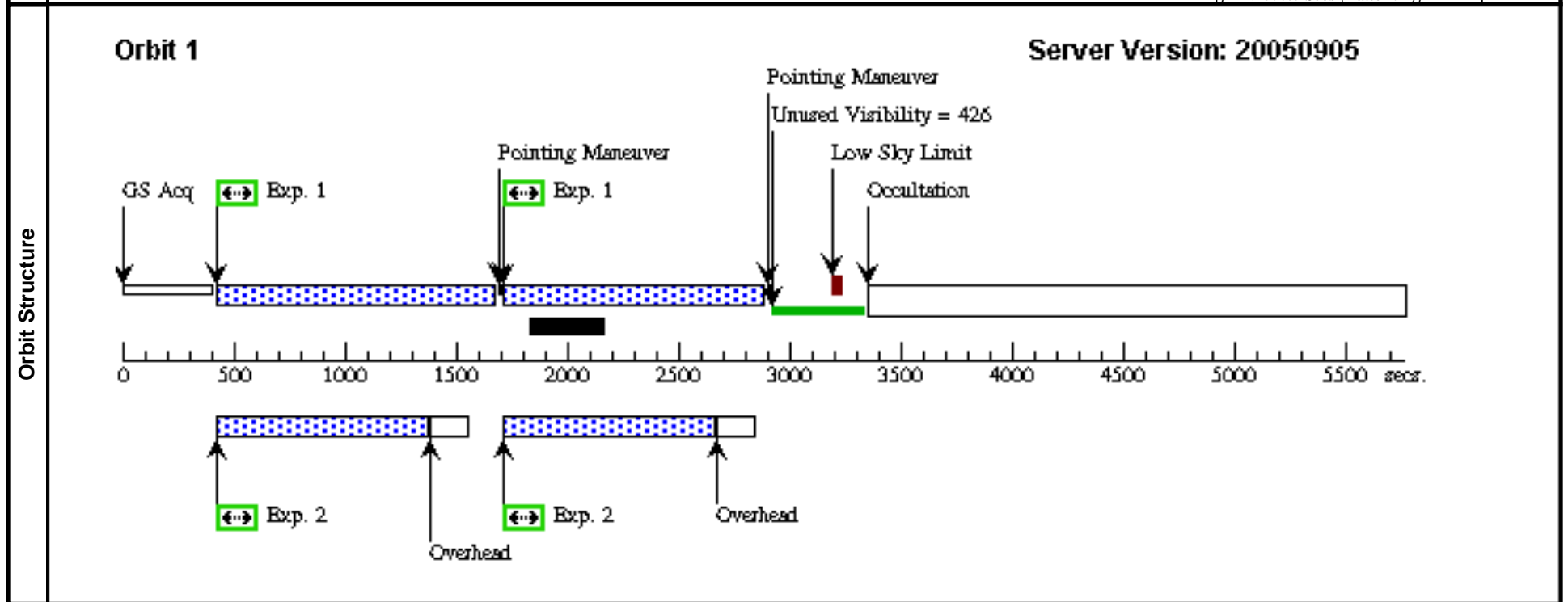
Proposal 10574 - Visit 04 - Witnessing Galaxy Transformation in Galaxy Groups at z > 1

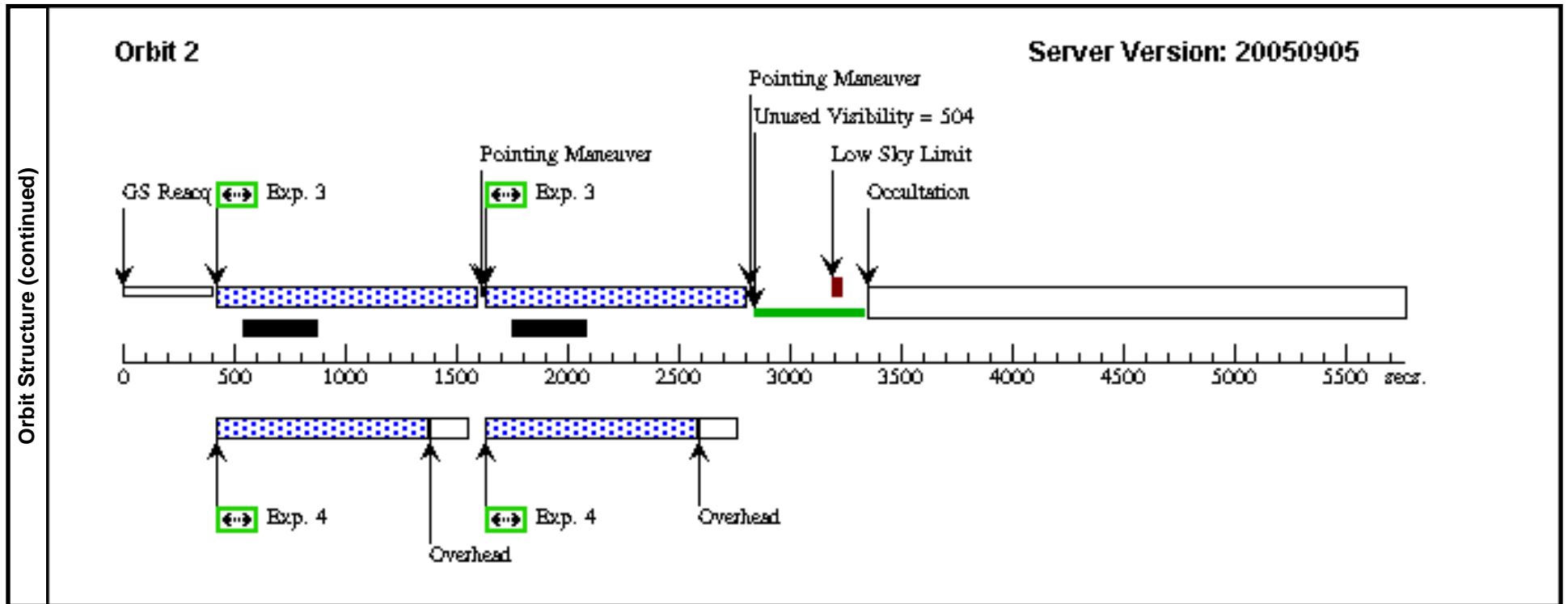
Thu Nov 24 02:24:46 GMT 2005

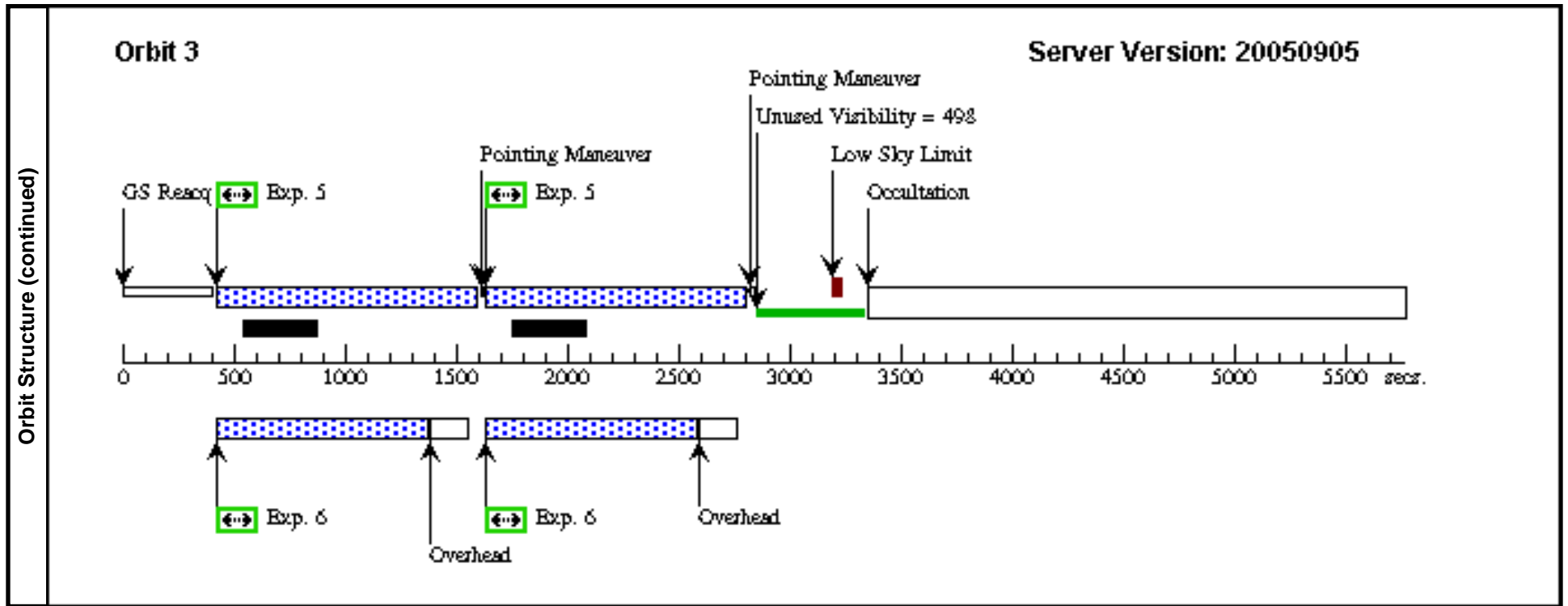
| Visit         | <b>Proposal 10574, Visit 04</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: ACS/WFC, WFPC2<br>Special Requirements: SAME ORIENT AS 03<br>Comments: Group 3 z-band sequence |  |   |                          |               |                                       |                             |   |   |       |
|---------------|---|--|---|--------------------------|---------------|---------------------------------------|-----------------------------|---|---|-------|
|               | Patterns  | #  | Primary Pattern   |                          |               | Secondary Pattern                     |                             |   | Exposures   |       |
|               | (1)   | Pattern Type=ACS-WFC-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=3.011<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=85.3<br>Angle Between Sides=<br>Center Pattern=false |                          |               |                                       |                             | (1-2), (3-4), (5-6), (7-8), (9-10)            |   |       |
| Fixed Targets | #   | Name   | Target Coordinates  | Targ. Coord. Corrections | Fluxes        | Miscellaneous                         |                             |   |   |       |
|               | (2)   | GROUP3   | RA: 08 48 57.6410 (132.2401708d)<br>Dec: +44 45 48.14 (44.76337d)<br>Equinox: J2000<br>Plate Id: (?)  |                          | V=24.0        | Coordinate Source: Nakata et al. 2005 |                             |   |   |       |
| Exposures     | #   | Label  | Target  | Config,Mode,Aperture     | Spectral Els. | Opt. Params.                          | Special Reqs.               | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|               | 1   | group3-zband-orbit1  | (2) GROUP3  | ACS/WFC, ACCUM, WFC      | F850LP        | CR-SPLIT=NO                           | POS TARG 0,0;<br>LOW-SKY    | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 2000.0 Secs<br>[=>1050.0 Secs (Pattern 1)]<br>[=>1050.0 Secs (Pattern 2)] | [1]   |
|               | 2   | wfc2par-g3-z-01  | ANY   | WFPC2, IMAGE, PC1        | F814W         | CR-SPLIT=NO                           |                             | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 1100.0 Secs<br>[=>800.0 Secs (Pattern 1)]<br>[=>800.0 Secs (Pattern 2)]   | [1]   |
|               | 3   | group3-zband-orbit2  | (2) GROUP3  | ACS/WFC, ACCUM, WFC      | F850LP        | CR-SPLIT=NO                           | POS TARG 0.25,3;<br>LOW-SKY | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 2000.0 Secs<br>[=>1050.0 Secs (Pattern 1)]<br>[=>1050.0 Secs (Pattern 2)] | [2]   |
|               | 4   | wfc2par-g3-z-02  | ANY   | WFPC2, IMAGE, PC1        | F814W         | CR-SPLIT=NO                           |                             | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 1100.0 Secs<br>[=>800.0 Secs (Pattern 1)]<br>[=>800.0 Secs (Pattern 2)]   | [2]   |
|               | 5   | group3-zband-orbit3  | (2) GROUP3  | ACS/WFC, ACCUM, WFC      | F850LP        | CR-SPLIT=NO                           | POS TARG 0.5,3;<br>LOW-SKY  | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 2000.0 Secs<br>[=>1050.0 Secs (Pattern 1)]<br>[=>1050.0 Secs (Pattern 2)] | [3]   |
|               | 6   | wfc2par-g3-z-03  | ANY   | WFPC2, IMAGE, PC1        | F814W         | CR-SPLIT=NO                           |                             | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 1100.0 Secs<br>[=>800.0 Secs (Pattern 1)]<br>[=>800.0 Secs (Pattern 2)]   | [3]   |

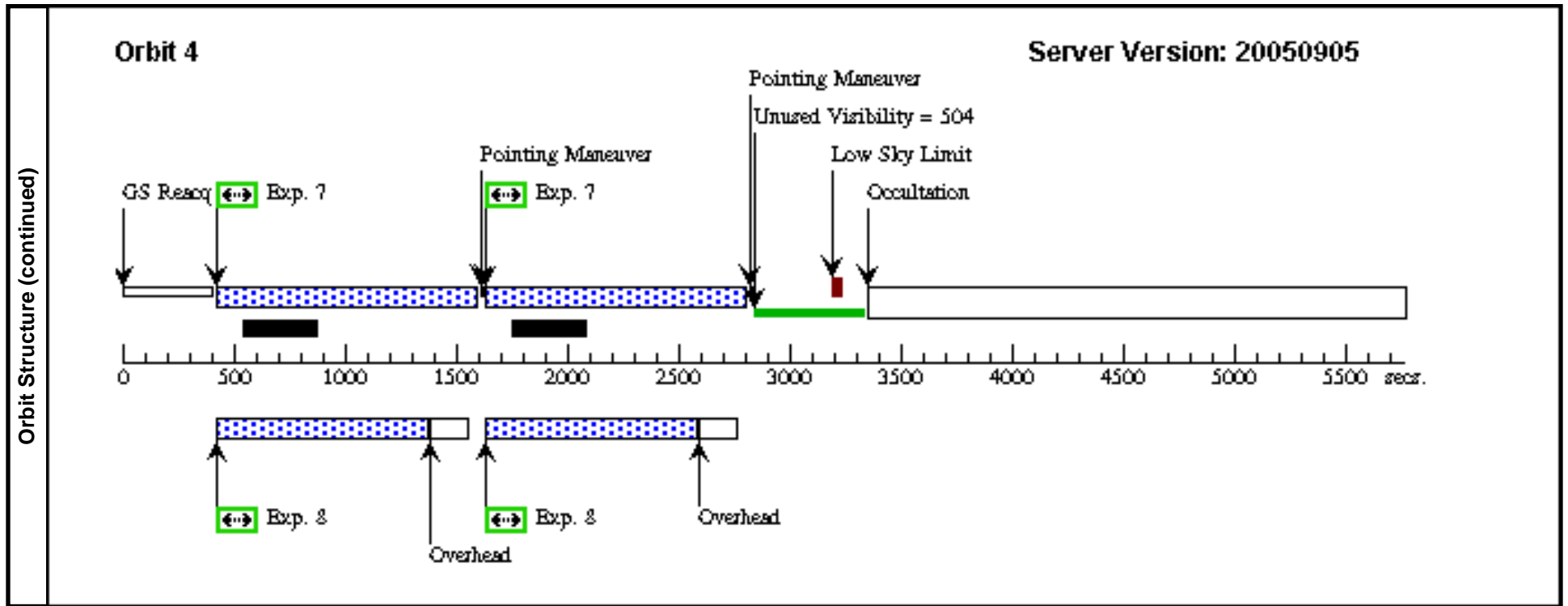
Proposal 10574 - Visit 04 - Witnessing Galaxy Transformation in Galaxy Groups at  $z > 1$

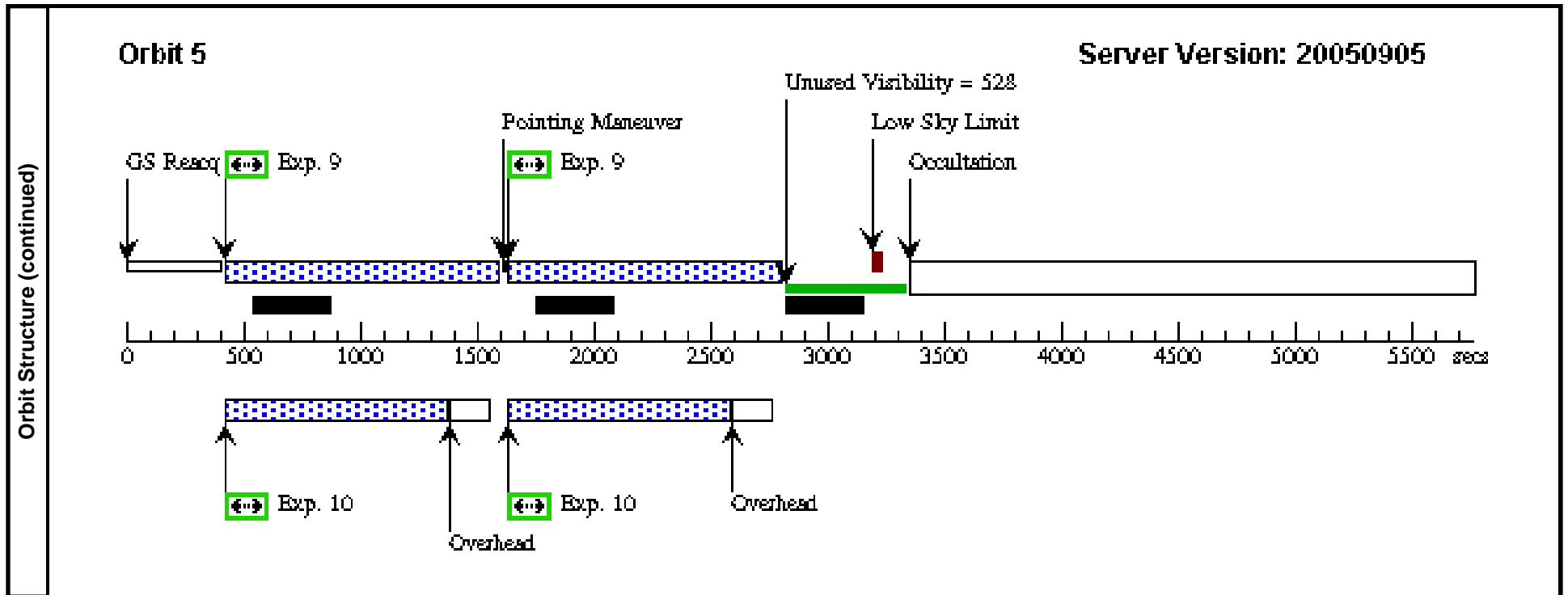
| #                     | Label | Target                  | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.                 | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|-----------------------|-------|-------------------------|-----------------------------------|---------------|--------------|-------------------------------|---|---|-------|
| Exposures (continued) | 7     | group3-zban<br>d-orbit4 | (2) GROUP3<br>ACS/WFC, ACCUM, WFC | F850LP        | CR-SPLIT=NO  | POS TARG -0.25,-3;<br>LOW-SKY | Pattern 7-8 (1)<br>Prime + Parallel Gro<br>up 7-8   | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [4]   |
|                       | 8     | wfc2par-g3-<br>z-o4     | ANY<br>WFPC2, IMAGE, PC1          | F814W         | CR-SPLIT=NO  |                               | Pattern 7-8 (1)<br>Prime + Parallel Gro<br>up 7-8   | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [4]   |
|                       | 9     | group3-zban<br>d-orbit5 | (2) GROUP3<br>ACS/WFC, ACCUM, WFC | F850LP        | CR-SPLIT=NO  | POS TARG -0.5,-3;<br>LOW-SKY  | Pattern 9-10 (1)<br>Prime + Parallel Gro<br>up 9-10 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [5]   |
|                       | 10    | wfc2par-g3-<br>z-o5     | ANY<br>WFPC2, IMAGE, PC1          | F814W         | CR-SPLIT=NO  |                               | Pattern 9-10 (1)<br>Prime + Parallel Gro<br>up 9-10 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [5]   |







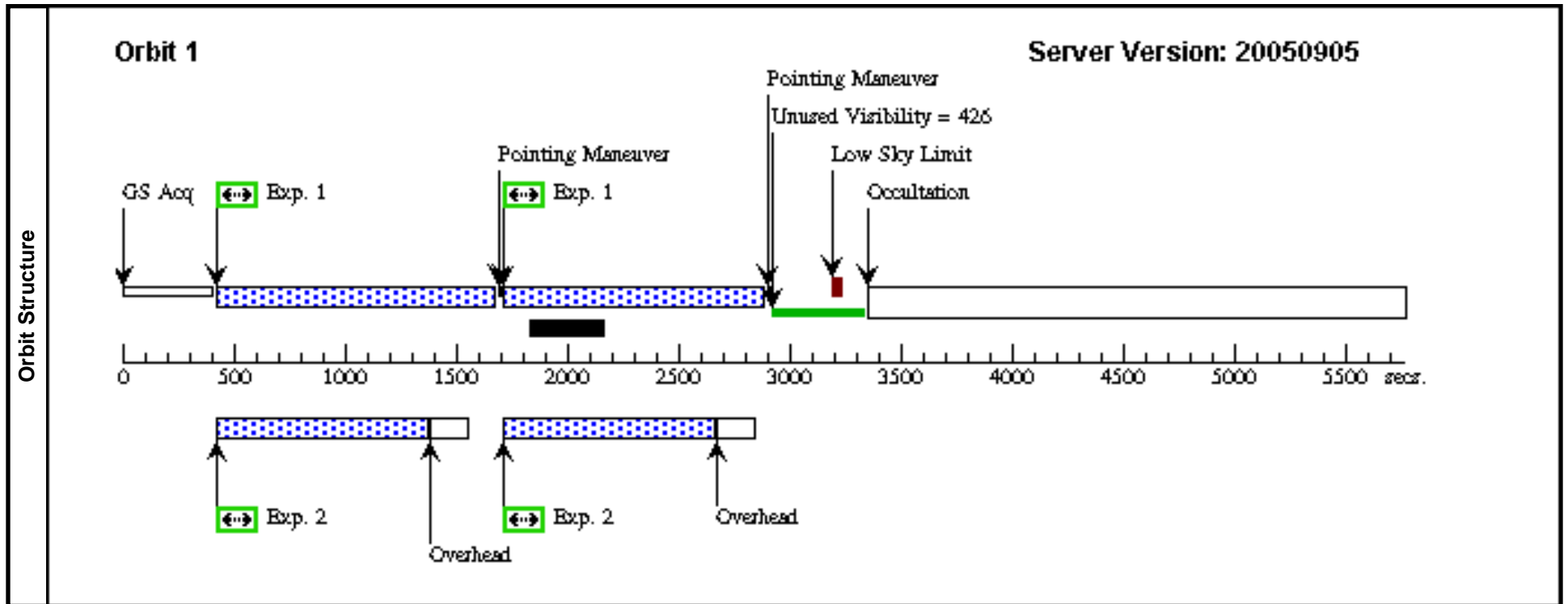


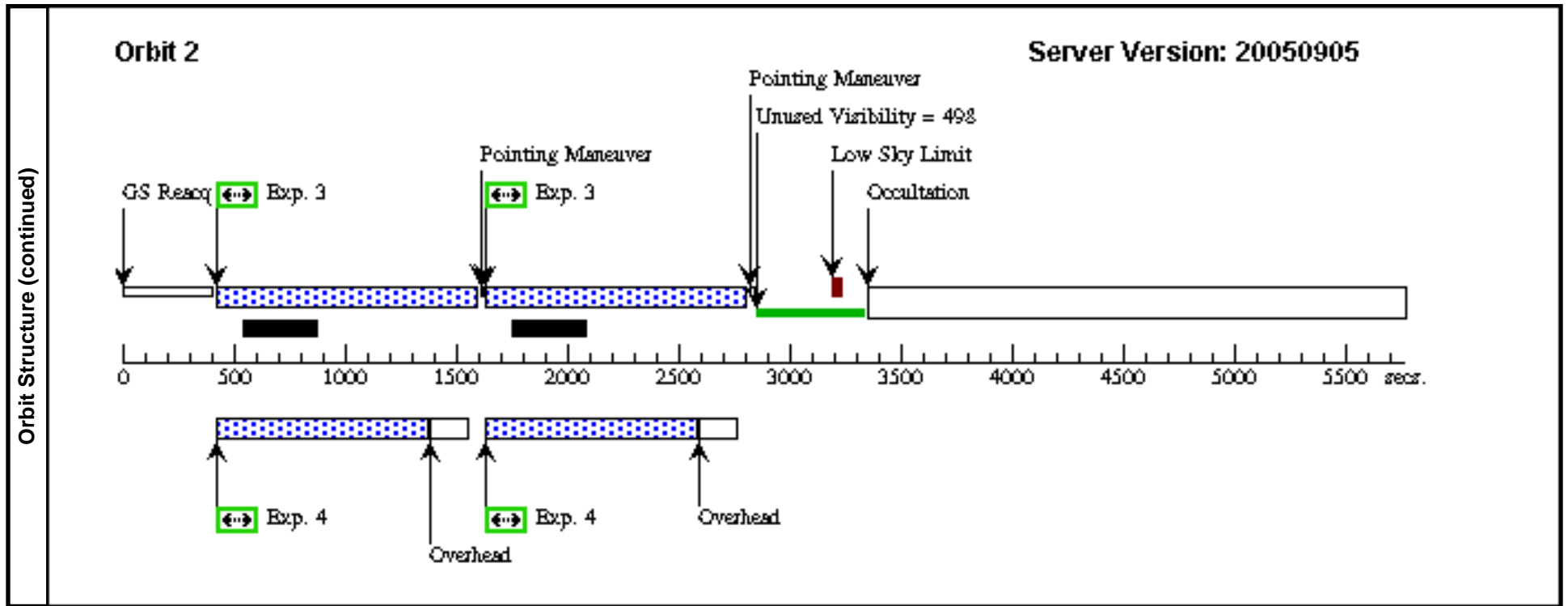


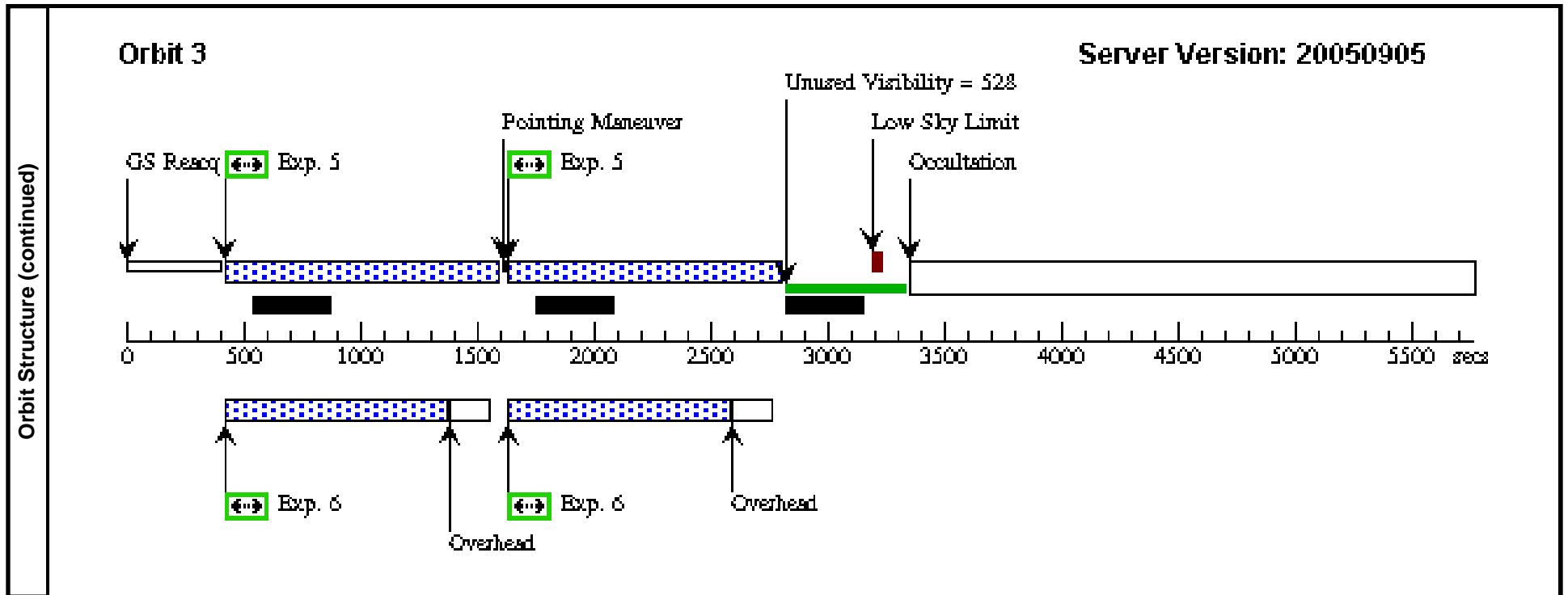
Proposal 10574 - Visit 05 - Witnessing Galaxy Transformation in Galaxy Groups at z > 1

Thu Nov 24 02:24:47 GMT 2005

| Visit         | <b>Proposal 10574, Visit 05</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: ACS/WFC, WFPC2<br>Special Requirements: (none)<br>Comments: Group 2 i-band sequence |  |   |                          |                     |                                       |                               |   |   |       |
|---------------|--|--|---|--------------------------|---------------------|---------------------------------------|-------------------------------|---|---|-------|
|               | Patterns   | #  | Primary Pattern   | Secondary Pattern        | Exposures           |                                       |                               |   |   |       |
|               | (1)  | Pattern Type=ACS-WFC-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=3.011<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=85.3<br>Angle Between Sides=<br>Center Pattern=false |                          | (1-2), (3-4), (5-6) |                                       |                               |   |   |       |
| Fixed Targets | #  | Name   | Target Coordinates  | Targ. Coord. Corrections | Fluxes              | Miscellaneous                         |                               |   |   |       |
|               | (3)  | GROUP2   | RA: 08 49 3.8500 (132.2660417d)<br>Dec: +44 57 13.54 (44.95376d)<br>Equinox: J2000<br>Plate Id: (?)   |                          | V=24.0              | Coordinate Source: Nakata et al. 2005 |                               |   |   |       |
| Exposures     | #  | Label  | Target  | Config,Mode,Aperture     | Spectral Els.       | Opt. Params.                          | Special Reqs.                 | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|               | 1  | group2-iban-d-orbit1   | (3) GROUP2  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG 0,0;<br>LOW-SKY      | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [1]   |
|               | 2  | wfc2par-g2-i-o1  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [1]   |
|               | 3  | group2-iban-d-orbit2   | (3) GROUP2  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG 0.25,3;<br>LOW-SKY   | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [2]   |
|               | 4  | wfc2par-g2-i-o2  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [2]   |
|               | 5  | group2-iban-d-orbit3   | (3) GROUP2  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG -0.25,-3;<br>LOW-SKY | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [3]   |
|               | 6  | wfc2par-g2-i-o3  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [3]   |







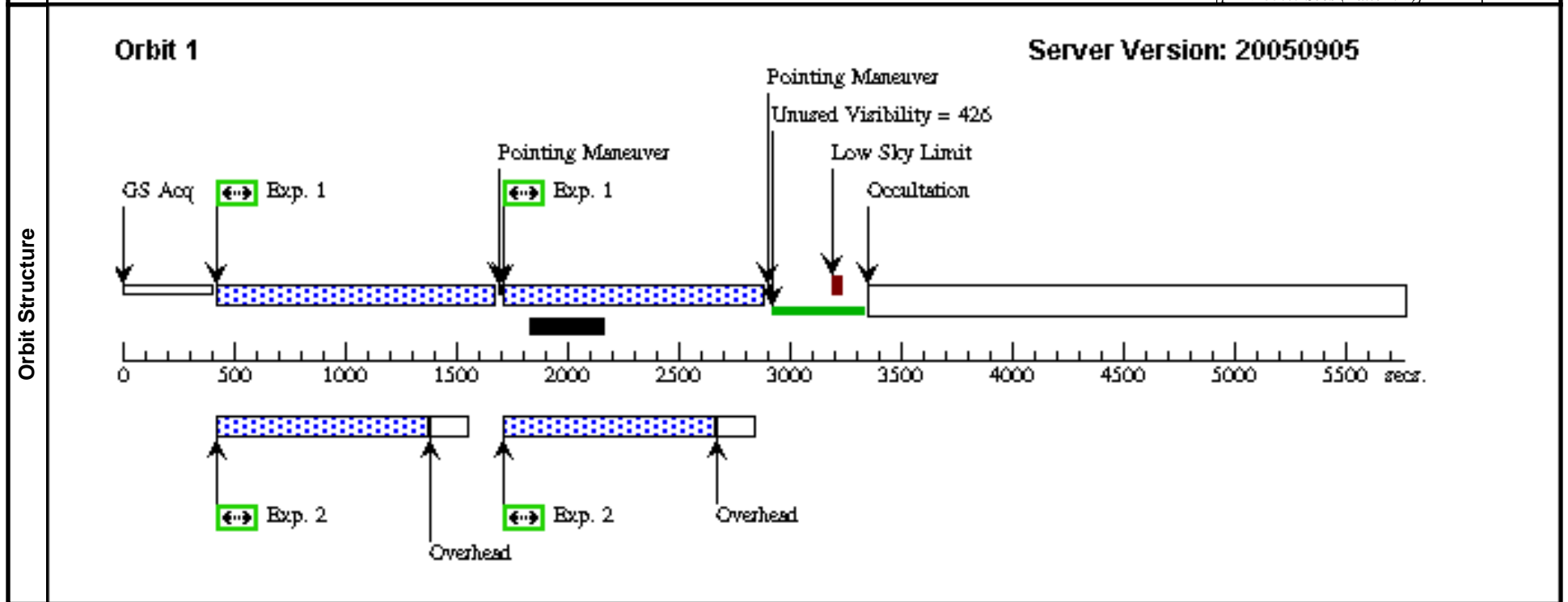
Proposal 10574 - Visit 06 - Witnessing Galaxy Transformation in Galaxy Groups at z > 1

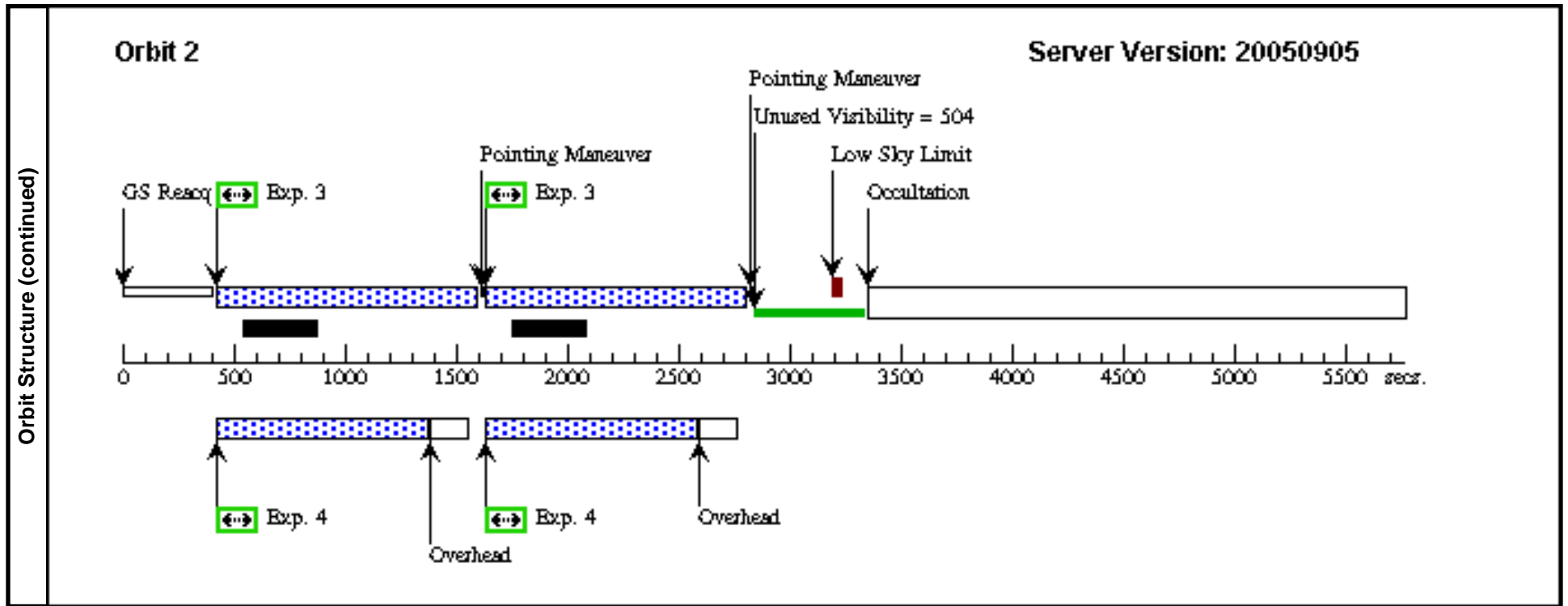
Thu Nov 24 02:24:48 GMT 2005

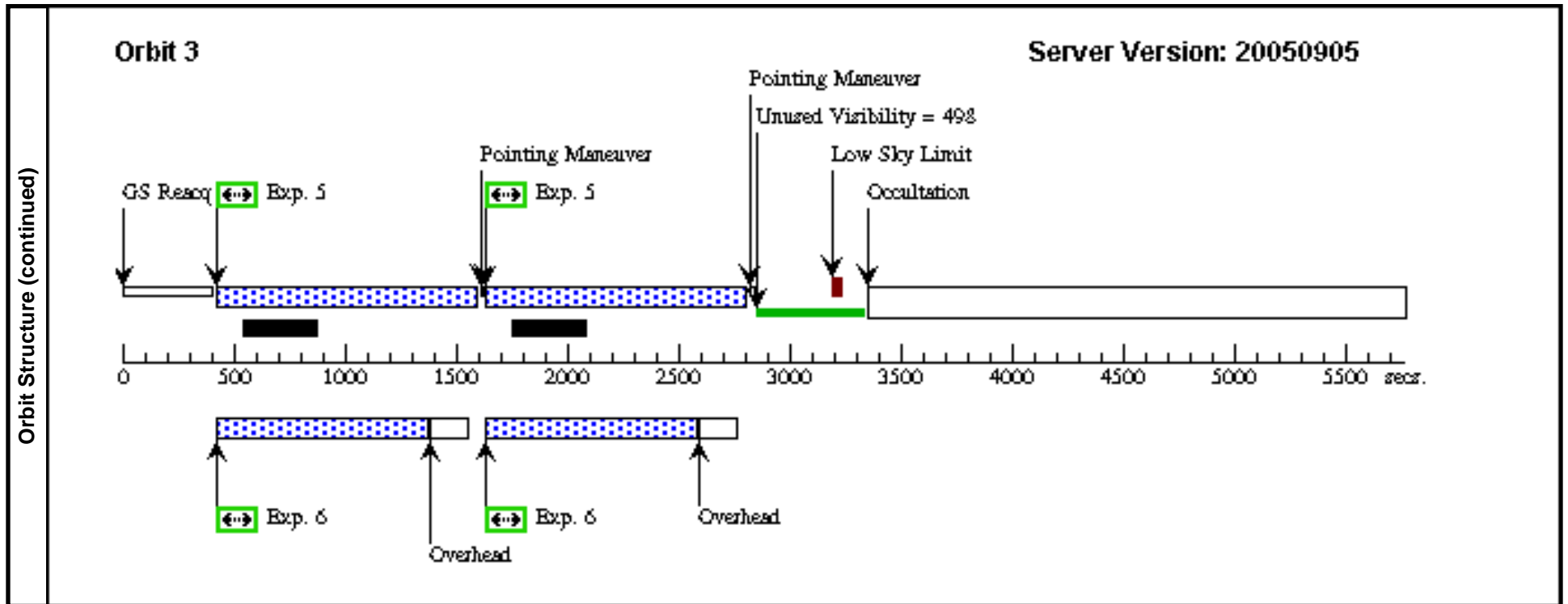
| Visit         | <b>Proposal 10574, Visit 06</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: ACS/WFC, WFPC2<br>Special Requirements: SAME ORIENT AS 05<br>Comments: Group 2 z-band sequence |                     |  |   |               |                                       |                             |   |   |       |
|---------------|---|---------------------|--|---|---------------|---------------------------------------|-----------------------------|---|---|-------|
|               | Patterns  | #                   | Primary Pattern  |   |               | Secondary Pattern                     |                             |   | Exposures   |       |
|               |   | (1)                 | Pattern Type=ACS-WFC-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=3.011<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=85.3<br>Angle Between Sides=<br>Center Pattern=false |               |                                       |                             |   | (1-2), (3-4), (5-6), (7-8), (9-10)  |       |
| Fixed Targets | #   | Name                | Target Coordinates   | Targ. Coord. Corrections  | Fluxes        | Miscellaneous                         |                             |   |   |       |
|               | (3)   | GROUP2              | RA: 08 49 3.8500 (132.2660417d)<br>Dec: +44 57 13.54 (44.95376d)<br>Equinox: J2000<br>Plate Id: (?)              |   | V=24.0        | Coordinate Source: Nakata et al. 2005 |                             |   |   |       |
| Exposures     | #   | Label               | Target   | Config,Mode,Aperture  | Spectral Els. | Opt. Params.                          | Special Reqs.               | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|               | 1   | group2-zband-orbit1 | (3) GROUP2   | ACS/WFC, ACCUM, WFC   | F850LP        | CR-SPLIT=NO                           | POS TARG 0,0;<br>LOW-SKY    | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 2000.0 Secs<br>[=>1050.0 Secs (Pattern 1)]<br>[=>1050.0 Secs (Pattern 2)] | [1]   |
|               | 2   | wfc2par-g2-z-01     | ANY  | WFPC2, IMAGE, PC1   | F814W         | CR-SPLIT=NO                           |                             | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 1100.0 Secs<br>[=>800.0 Secs (Pattern 1)]<br>[=>800.0 Secs (Pattern 2)]   | [1]   |
|               | 3   | group2-zband-orbit2 | (3) GROUP2   | ACS/WFC, ACCUM, WFC   | F850LP        | CR-SPLIT=NO                           | POS TARG 0.25,3;<br>LOW-SKY | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 2000.0 Secs<br>[=>1050.0 Secs (Pattern 1)]<br>[=>1050.0 Secs (Pattern 2)] | [2]   |
|               | 4   | wfc2par-g2-z-02     | ANY  | WFPC2, IMAGE, PC1   | F814W         | CR-SPLIT=NO                           |                             | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 1100.0 Secs<br>[=>800.0 Secs (Pattern 1)]<br>[=>800.0 Secs (Pattern 2)]   | [2]   |
|               | 5   | group2-zband-orbit3 | (3) GROUP2   | ACS/WFC, ACCUM, WFC   | F850LP        | CR-SPLIT=NO                           | POS TARG 0.5,3;<br>LOW-SKY  | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 2000.0 Secs<br>[=>1050.0 Secs (Pattern 1)]<br>[=>1050.0 Secs (Pattern 2)] | [3]   |
|               | 6   | wfc2par-g2-z-03     | ANY  | WFPC2, IMAGE, PC1   | F814W         | CR-SPLIT=NO                           |                             | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 1100.0 Secs<br>[=>800.0 Secs (Pattern 1)]<br>[=>800.0 Secs (Pattern 2)]   | [3]   |

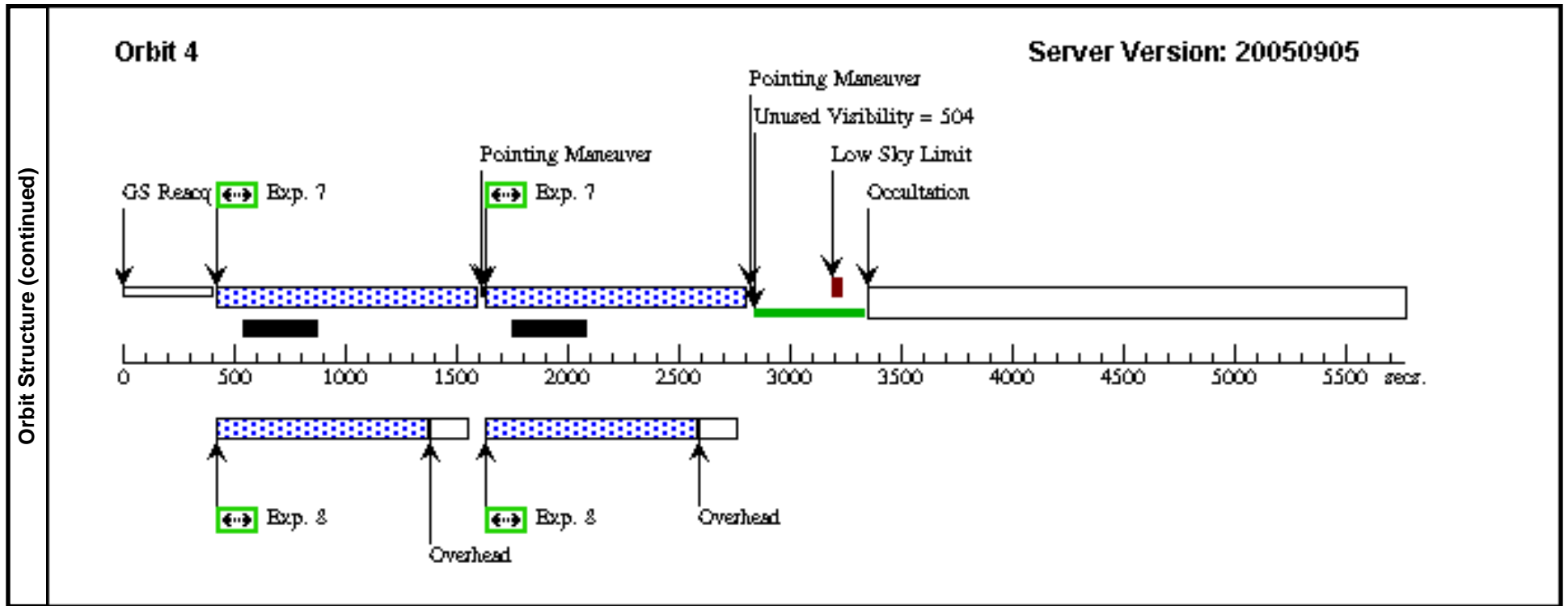
Proposal 10574 - Visit 06 - Witnessing Galaxy Transformation in Galaxy Groups at  $z > 1$

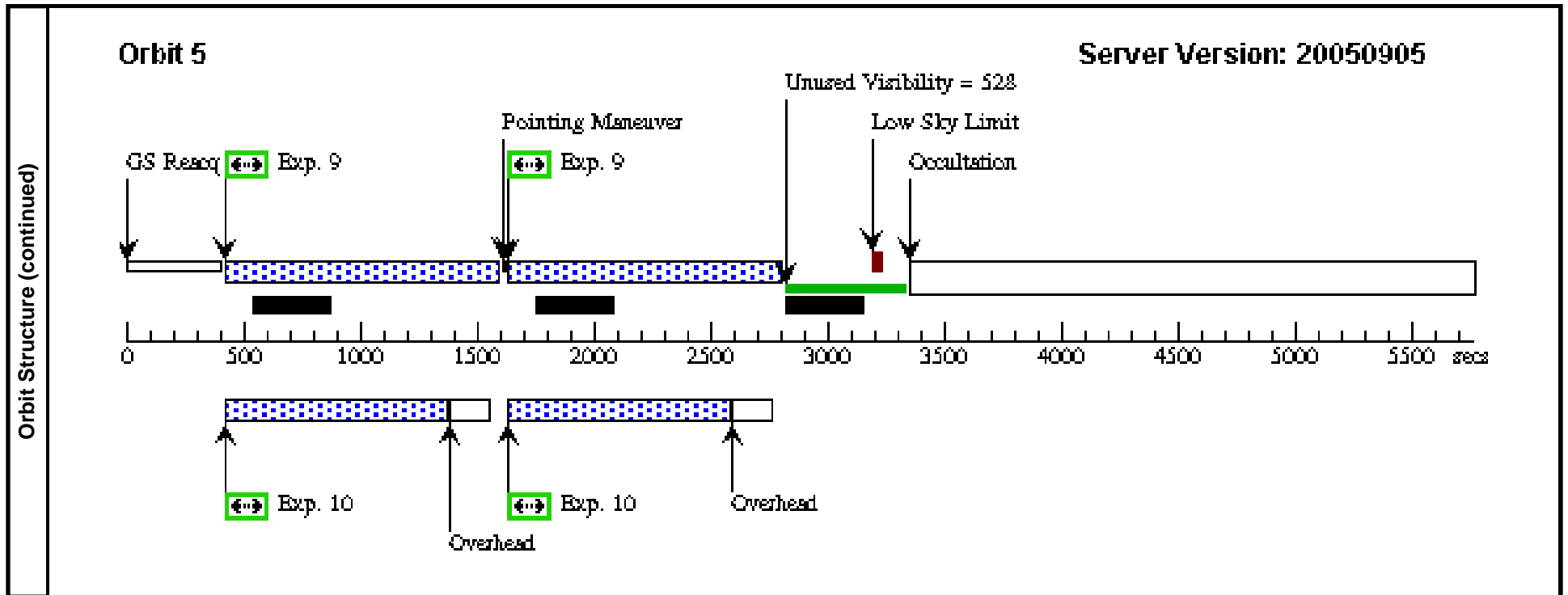
| #                     | Label | Target                  | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.                 | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|-----------------------|-------|-------------------------|-----------------------------------|---------------|--------------|-------------------------------|---|---|-------|
| Exposures (continued) | 7     | group2-zban<br>d-orbit4 | (3) GROUP2<br>ACS/WFC, ACCUM, WFC | F850LP        | CR-SPLIT=NO  | POS TARG -0.25,-3;<br>LOW-SKY | Pattern 7-8 (1)<br>Prime + Parallel Gro<br>up 7-8   | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [4]   |
|                       | 8     | wfc2par-g2-<br>z-o4     | ANY<br>WFPC2, IMAGE, PC1          | F814W         | CR-SPLIT=NO  |                               | Pattern 7-8 (1)<br>Prime + Parallel Gro<br>up 7-8   | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [4]   |
|                       | 9     | group2-zban<br>d-orbit5 | (3) GROUP2<br>ACS/WFC, ACCUM, WFC | F850LP        | CR-SPLIT=NO  | POS TARG -0.5,-3;<br>LOW-SKY  | Pattern 9-10 (1)<br>Prime + Parallel Gro<br>up 9-10 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [5]   |
|                       | 10    | wfc2par-g2-<br>z-o5     | ANY<br>WFPC2, IMAGE, PC1          | F814W         | CR-SPLIT=NO  |                               | Pattern 9-10 (1)<br>Prime + Parallel Gro<br>up 9-10 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [5]   |







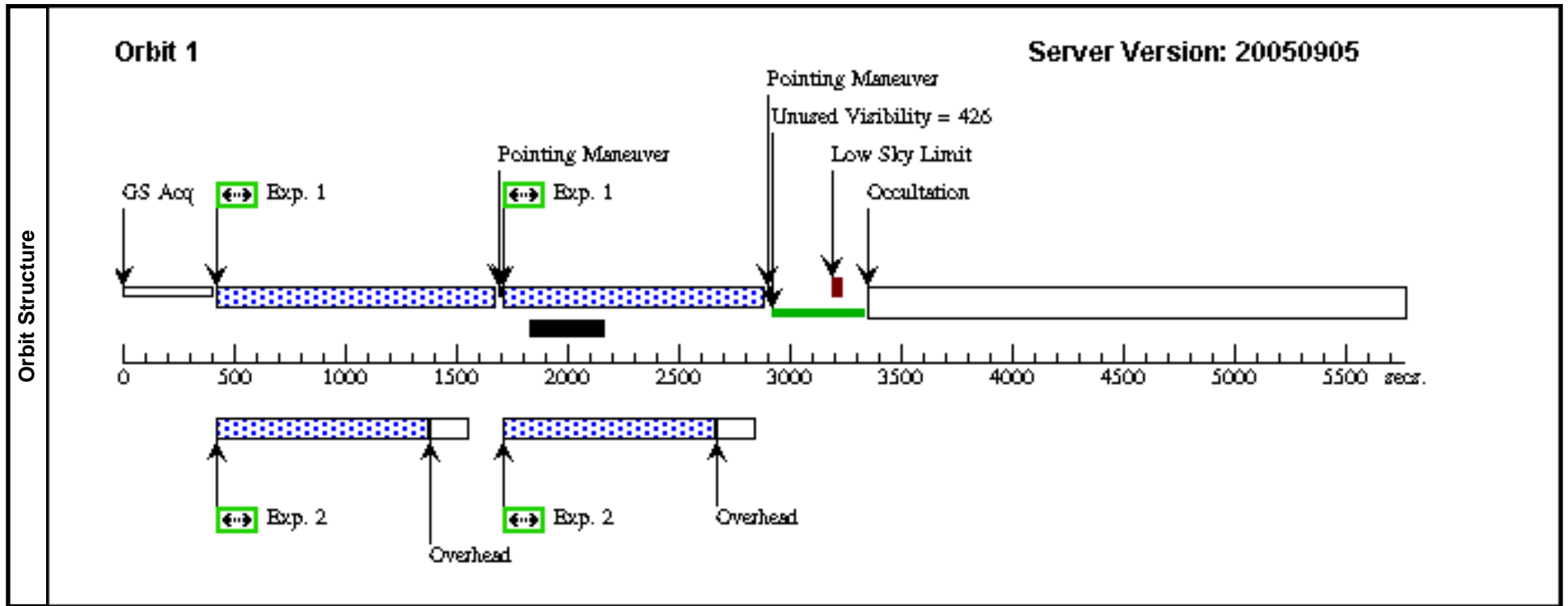


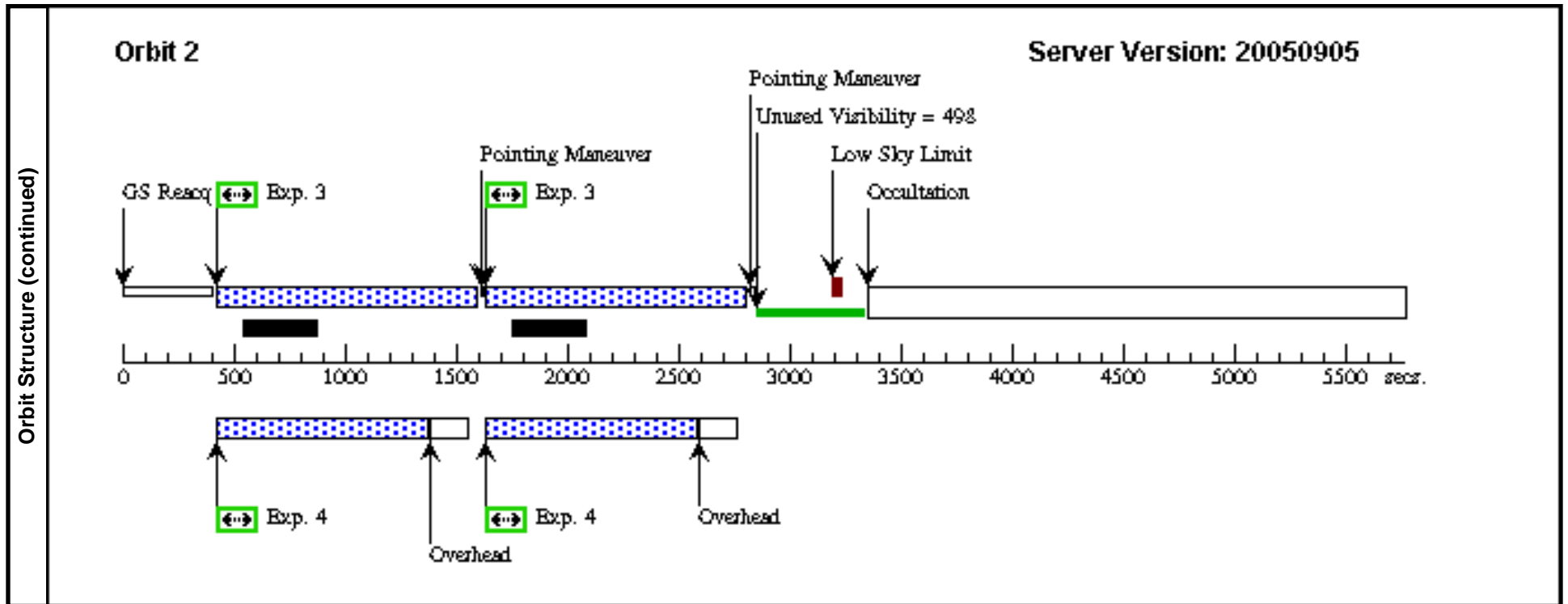


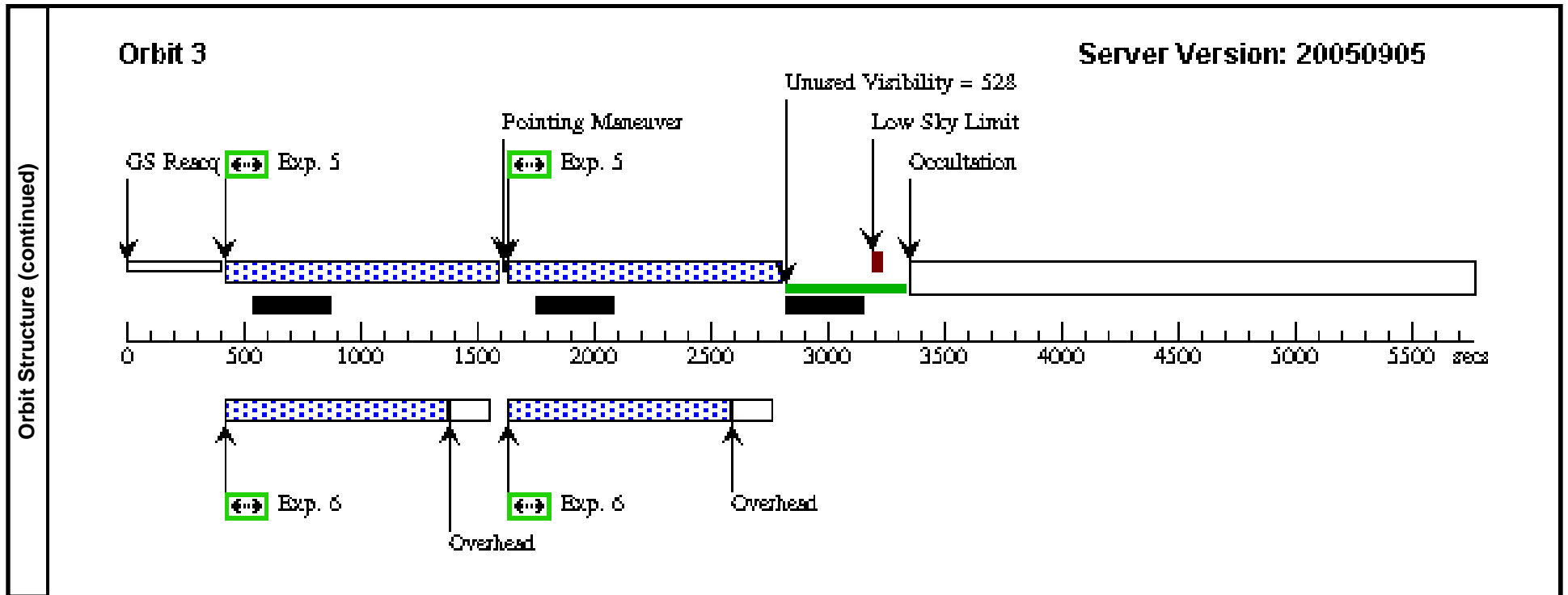
Proposal 10574 - Visit 07 - Witnessing Galaxy Transformation in Galaxy Groups at z > 1

Thu Nov 24 02:24:50 GMT 2005

| Visit         | <b>Proposal 10574, Visit 07</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: ACS/WFC, WFPC2<br>Special Requirements: (none)<br>Comments: Group 6 i-band sequence |  |   |                          |                     |                                       |                               |   |   |       |
|---------------|--|--|---|--------------------------|---------------------|---------------------------------------|-------------------------------|---|---|-------|
|               | Patterns   | #  | Primary Pattern   | Secondary Pattern        | Exposures           |                                       |                               |   |   |       |
|               | (1)  | Pattern Type=ACS-WFC-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=3.011<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=85.3<br>Angle Between Sides=<br>Center Pattern=false |                          | (1-2), (3-4), (5-6) |                                       |                               |   |   |       |
| Fixed Targets | #  | Name   | Target Coordinates  | Targ. Coord. Corrections | Fluxes              | Miscellaneous                         |                               |   |   |       |
|               | (4)  | GROUP6   | RA: 08 48 5.1080 (132.0212833d)<br>Dec: +44 46 23.82 (44.77328d)<br>Equinox: J2000<br>Plate Id: (?)   |                          | V=24.0              | Coordinate Source: Nakata et al. 2005 |                               |   |   |       |
| Exposures     | #  | Label  | Target  | Config,Mode,Aperture     | Spectral Els.       | Opt. Params.                          | Special Reqs.                 | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|               | 1  | group6-iban<br>d-orbit1  | (4) GROUP6  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG 0,0;<br>LOW-SKY      | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [1]   |
|               | 2  | wfc2par-g6-<br>i-o1  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [1]   |
|               | 3  | group6-iban<br>d-orbit2  | (4) GROUP6  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG 0.25,-3;<br>LOW-SKY  | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [2]   |
|               | 4  | wfc2par-g6-<br>i-o2  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [2]   |
|               | 5  | group6-iban<br>d-orbit3  | (4) GROUP6  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG -0.25,-3;<br>LOW-SKY | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [3]   |
|               | 6  | wfc2par-g6-<br>i-o3  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [3]   |







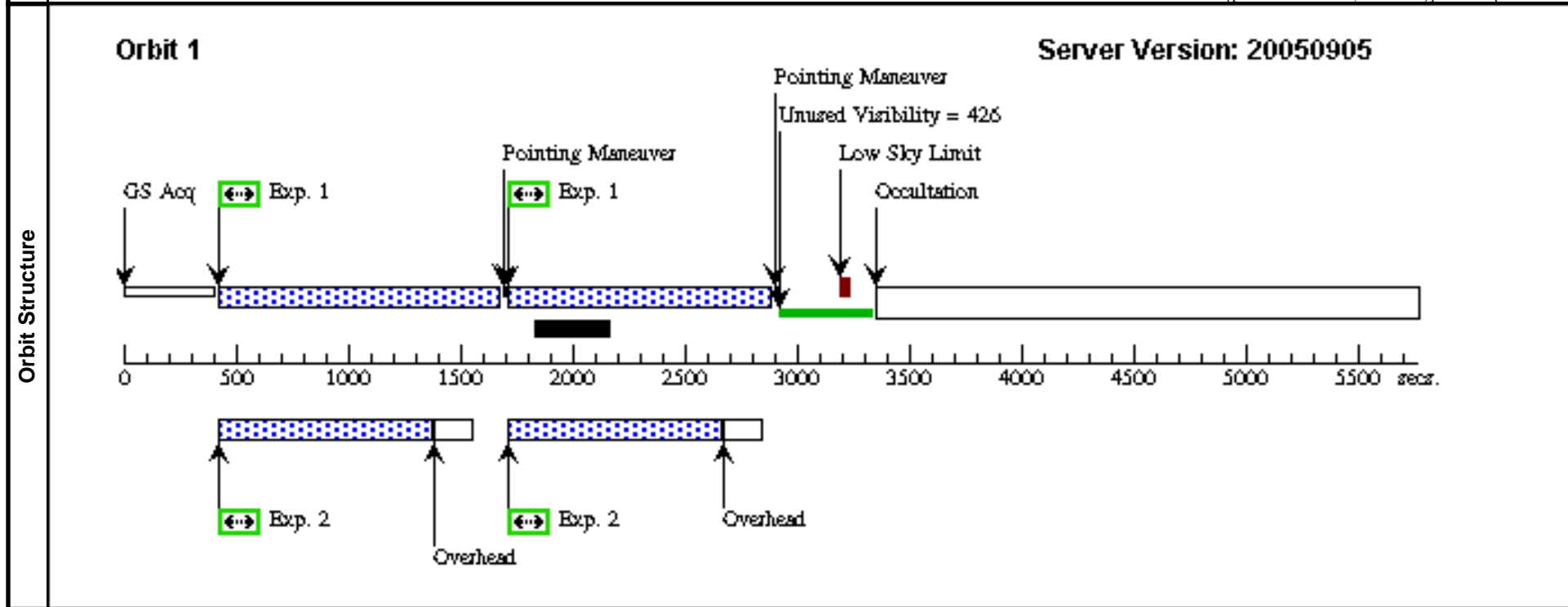
Proposal 10574 - Visit 08 - Witnessing Galaxy Transformation in Galaxy Groups at z > 1

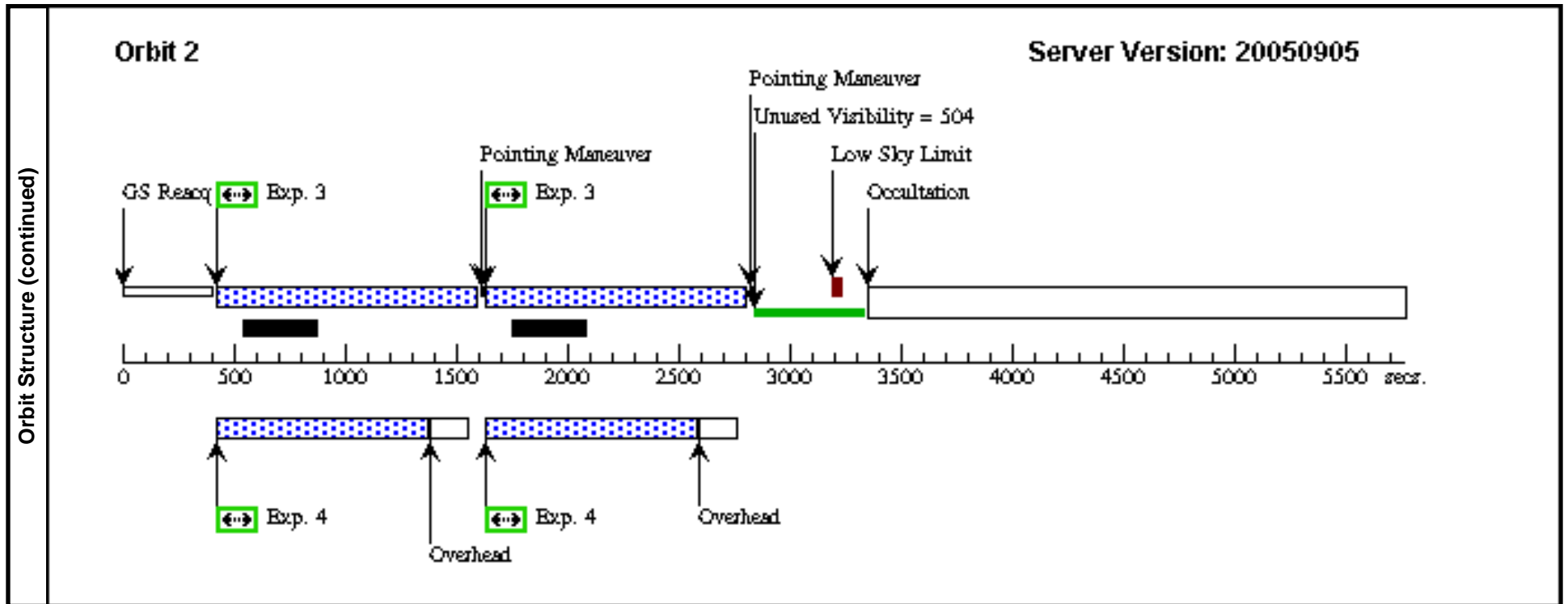
Thu Nov 24 02:24:51 GMT 2005

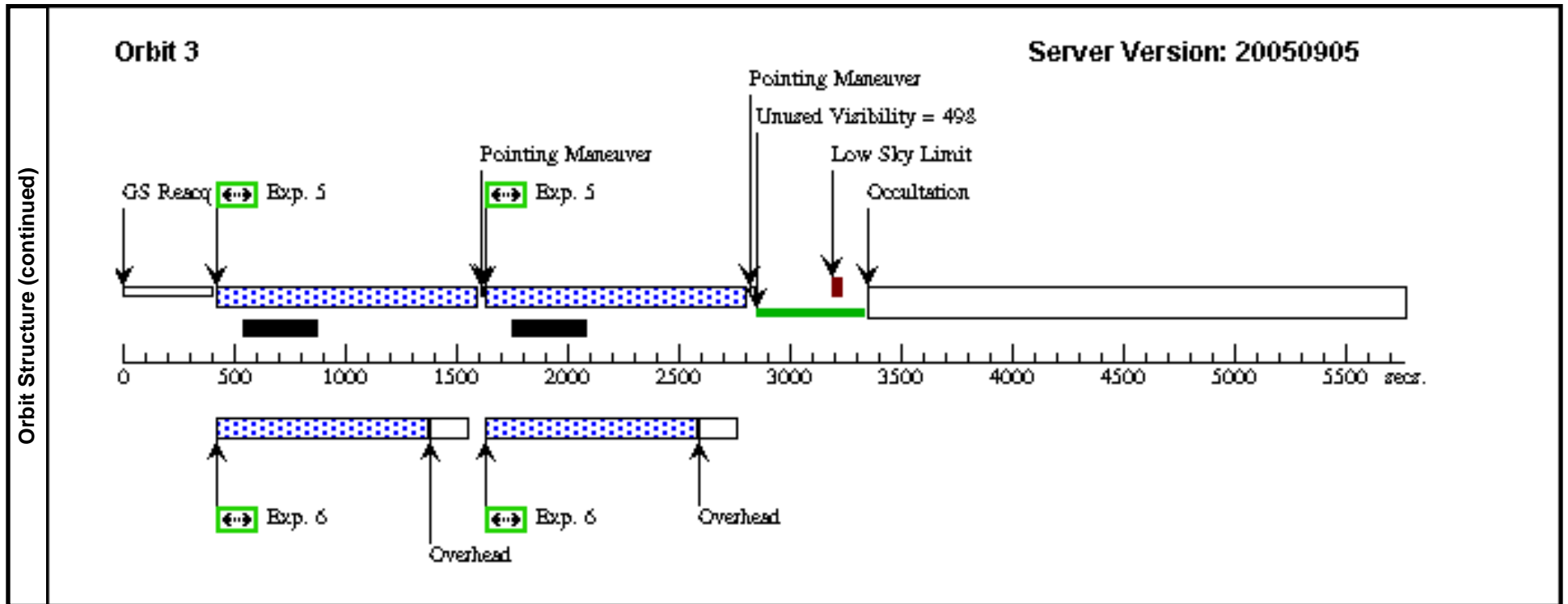
| Visit         | <b>Proposal 10574, Visit 08</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: ACS/WFC, WFPC2<br>Special Requirements: SAME ORIENT AS 07<br>Comments: Group 6 z-band sequence |                     |  |   |               |                                       |                             |   |   |       |
|---------------|---|---------------------|--|---|---------------|---------------------------------------|-----------------------------|---|---|-------|
|               | Patterns  | #                   | Primary Pattern  |   |               | Secondary Pattern                     |                             |   | Exposures   |       |
|               |   | (1)                 | Pattern Type=ACS-WFC-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=3.011<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=85.3<br>Angle Between Sides=<br>Center Pattern=false |               |                                       |                             |   | (1-2), (3-4), (5-6), (7-8), (9-10)  |       |
| Fixed Targets | #   | Name                | Target Coordinates   | Targ. Coord. Corrections  | Fluxes        | Miscellaneous                         |                             |   |   |       |
|               | (4)   | GROUP6              | RA: 08 48 5.1080 (132.0212833d)<br>Dec: +44 46 23.82 (44.77328d)<br>Equinox: J2000<br>Plate Id: (?)              |   | V=24.0        | Coordinate Source: Nakata et al. 2005 |                             |   |   |       |
| Exposures     | #   | Label               | Target   | Config,Mode,Aperture  | Spectral Els. | Opt. Params.                          | Special Reqs.               | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|               | 1   | group6-zband-orbit1 | (4) GROUP6   | ACS/WFC, ACCUM, WFC   | F850LP        | CR-SPLIT=NO                           | POS TARG 0,0;<br>LOW-SKY    | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 2000.0 Secs<br>[=>1050.0 Secs (Pattern 1)]<br>[=>1050.0 Secs (Pattern 2)] | [1]   |
|               | 2   | wfc2par-g6-z-01     | ANY  | WFPC2, IMAGE, PC1   | F814W         | CR-SPLIT=NO                           |                             | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 1100.0 Secs<br>[=>800.0 Secs (Pattern 1)]<br>[=>800.0 Secs (Pattern 2)]   | [1]   |
|               | 3   | group6-zband-orbit2 | (4) GROUP6   | ACS/WFC, ACCUM, WFC   | F850LP        | CR-SPLIT=NO                           | POS TARG 0.25,3;<br>LOW-SKY | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 2000.0 Secs<br>[=>1050.0 Secs (Pattern 1)]<br>[=>1050.0 Secs (Pattern 2)] | [2]   |
|               | 4   | wfc2par-g6-z-02     | ANY  | WFPC2, IMAGE, PC1   | F814W         | CR-SPLIT=NO                           |                             | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 1100.0 Secs<br>[=>800.0 Secs (Pattern 1)]<br>[=>800.0 Secs (Pattern 2)]   | [2]   |
|               | 5   | group6-zband-orbit3 | (4) GROUP6   | ACS/WFC, ACCUM, WFC   | F850LP        | CR-SPLIT=NO                           | POS TARG 0.5,3;<br>LOW-SKY  | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 2000.0 Secs<br>[=>1050.0 Secs (Pattern 1)]<br>[=>1050.0 Secs (Pattern 2)] | [3]   |
|               | 6   | wfc2par-g6-z-03     | ANY  | WFPC2, IMAGE, PC1   | F814W         | CR-SPLIT=NO                           |                             | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 1100.0 Secs<br>[=>800.0 Secs (Pattern 1)]<br>[=>800.0 Secs (Pattern 2)]   | [3]   |

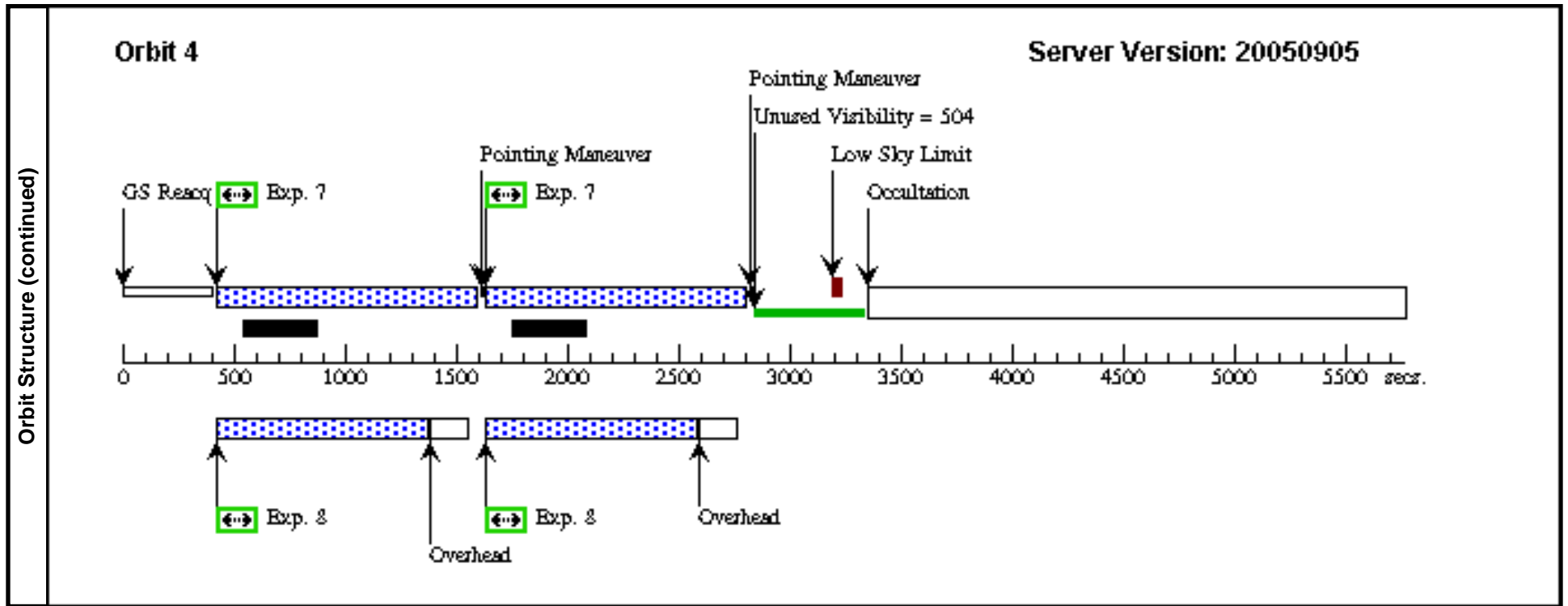
Proposal 10574 - Visit 08 - Witnessing Galaxy Transformation in Galaxy Groups at  $z > 1$

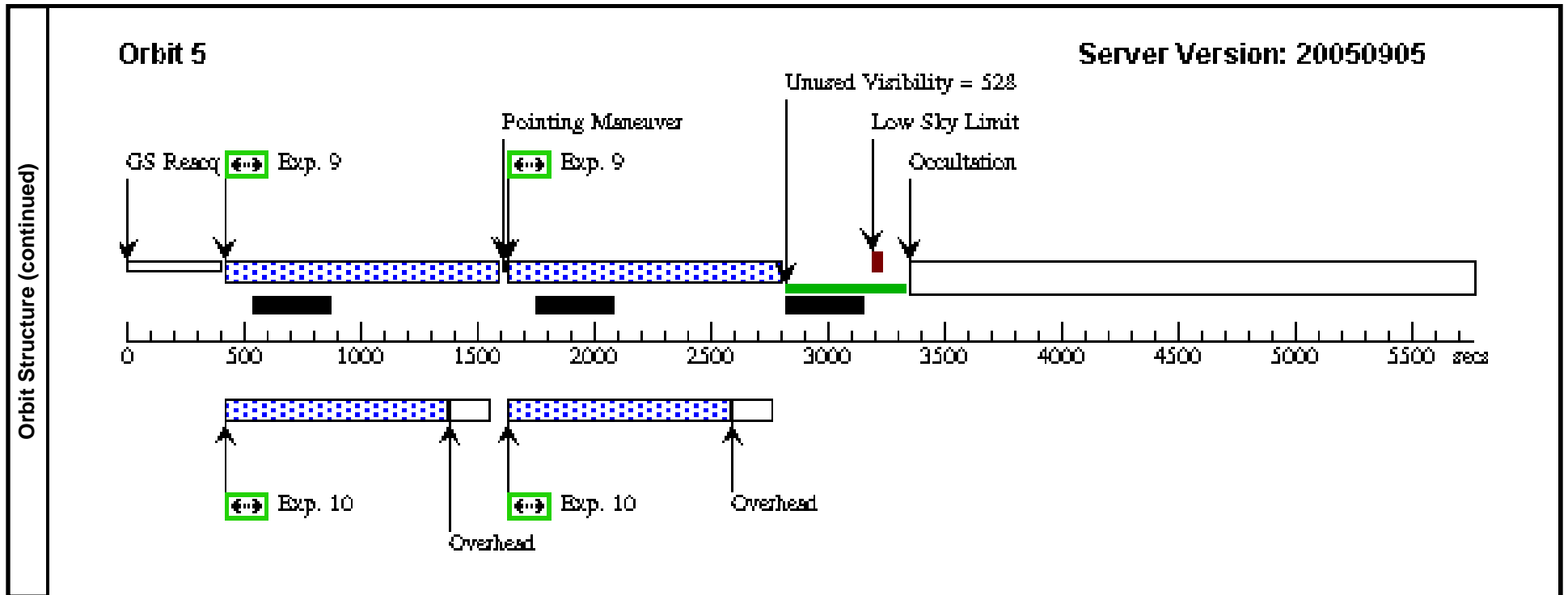
| #                     | Label | Target                  | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.                 | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|-----------------------|-------|-------------------------|-----------------------------------|---------------|--------------|-------------------------------|---|---|-------|
| Exposures (continued) | 7     | group6-zban<br>d-orbit4 | (4) GROUP6<br>ACS/WFC, ACCUM, WFC | F850LP        | CR-SPLIT=NO  | POS TARG -0.25,-3;<br>LOW-SKY | Pattern 7-8 (1)<br>Prime + Parallel Gro<br>up 7-8   | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [4]   |
|                       | 8     | wfc2par-g6-<br>z-o4     | ANY<br>WFPC2, IMAGE, PC1          | F814W         | CR-SPLIT=NO  |                               | Pattern 7-8 (1)<br>Prime + Parallel Gro<br>up 7-8   | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [4]   |
|                       | 9     | group6-zban<br>d-orbit5 | (4) GROUP6<br>ACS/WFC, ACCUM, WFC | F850LP        | CR-SPLIT=NO  | POS TARG -0.5,-3;<br>LOW-SKY  | Pattern 9-10 (1)<br>Prime + Parallel Gro<br>up 9-10 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [5]   |
|                       | 10    | wfc2par-g6-<br>z-o5     | ANY<br>WFPC2, IMAGE, PC1          | F814W         | CR-SPLIT=NO  |                               | Pattern 9-10 (1)<br>Prime + Parallel Gro<br>up 9-10 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [5]   |







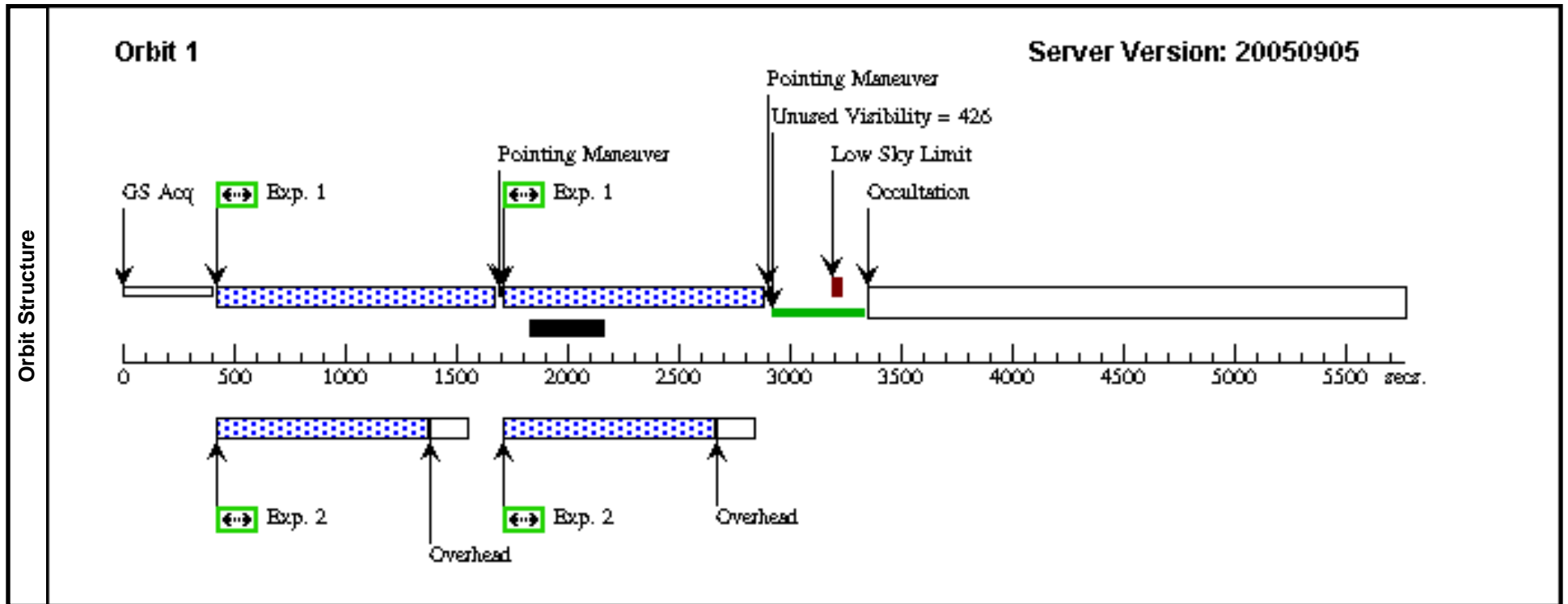


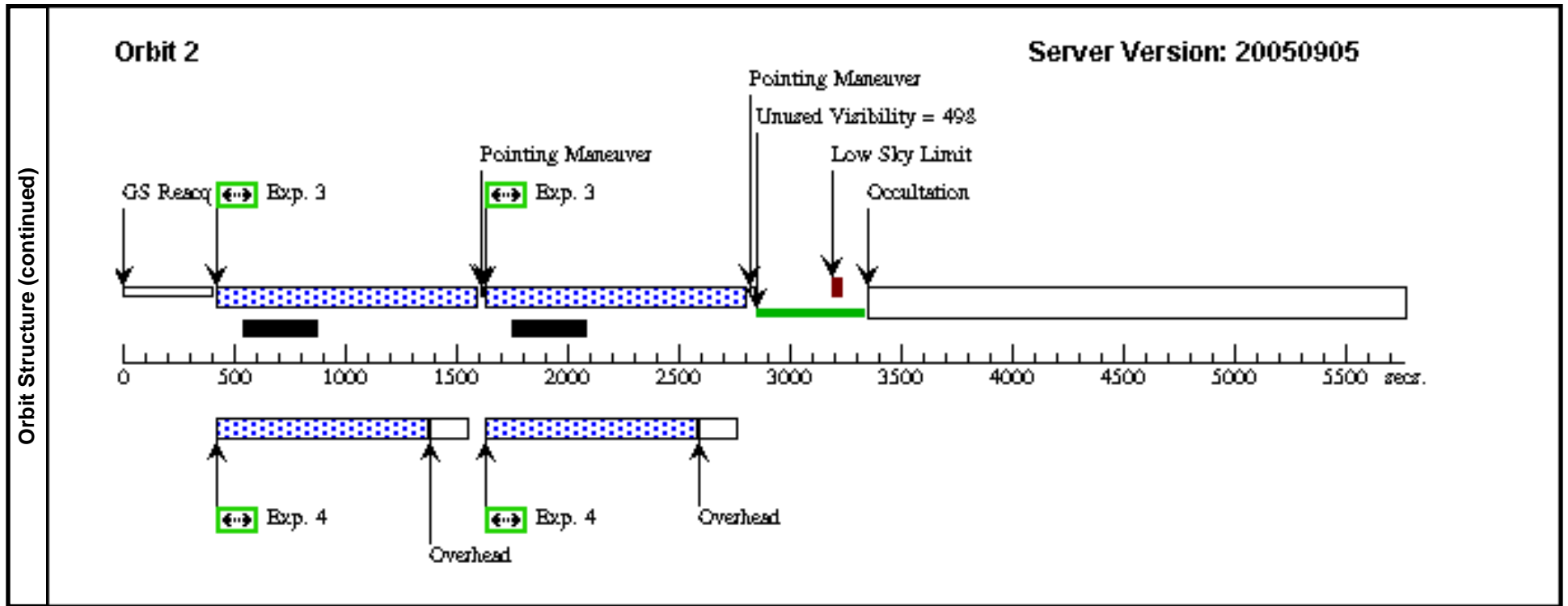


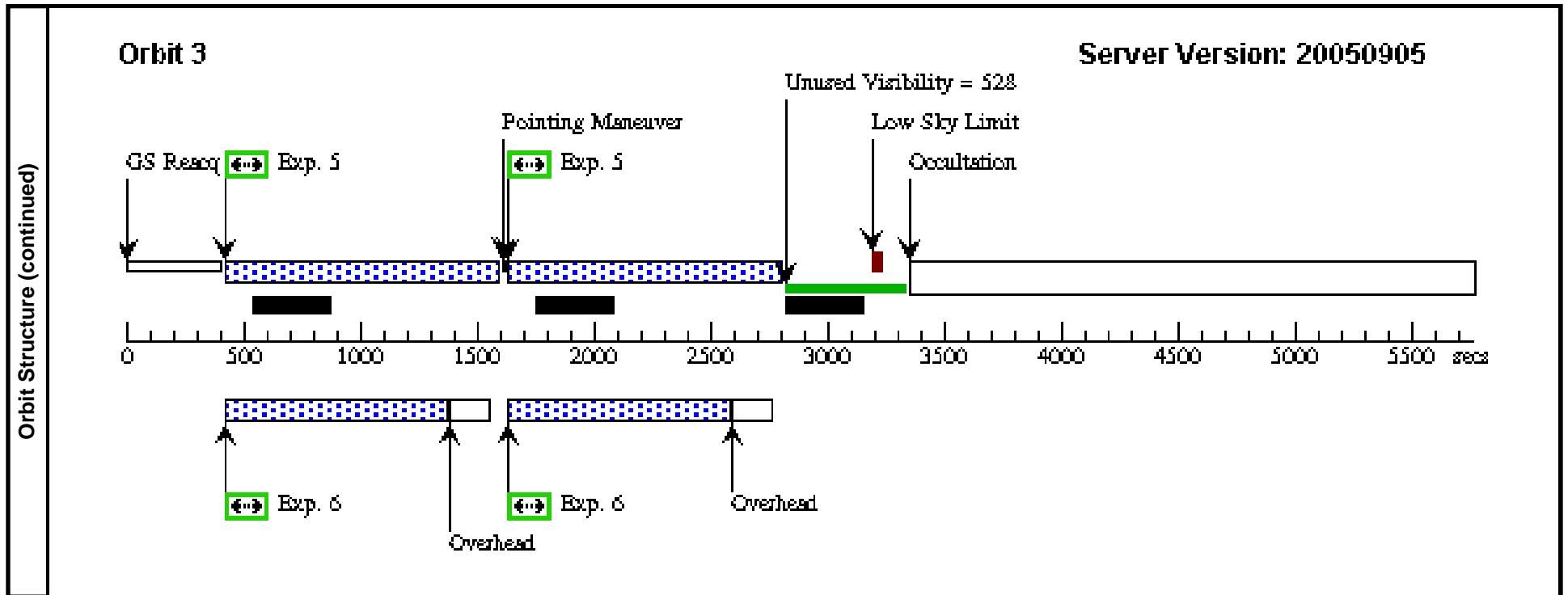
Proposal 10574 - Visit 09 - Witnessing Galaxy Transformation in Galaxy Groups at z > 1

Thu Nov 24 02:24:52 GMT 2005

| Visit         | <b>Proposal 10574, Visit 09</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: ACS/WFC, WFPC2<br>Special Requirements: (none)<br>Comments: Group 7 i-band sequence |  |   |                          |                     |                                       |                               |   |   |       |
|---------------|--|--|---|--------------------------|---------------------|---------------------------------------|-------------------------------|---|---|-------|
|               | Patterns   | #  | Primary Pattern   | Secondary Pattern        | Exposures           |                                       |                               |   |   |       |
|               | (1)  | Pattern Type=ACS-WFC-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=3.011<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=85.3<br>Angle Between Sides=<br>Center Pattern=false |                          | (1-2), (3-4), (5-6) |                                       |                               |   |   |       |
| Fixed Targets | #  | Name   | Target Coordinates  | Targ. Coord. Corrections | Fluxes              | Miscellaneous                         |                               |   |   |       |
|               | (5)  | GROUP7   | RA: 08 47 48.6090 (131.9525375d)<br>Dec: +44 44 12.40 (44.73678d)<br>Equinox: J2000<br>Plate Id: (?)  |                          | V=24.0              | Coordinate Source: Nakata et al. 2005 |                               |   |   |       |
| Exposures     | #  | Label  | Target  | Config,Mode,Aperture     | Spectral Els.       | Opt. Params.                          | Special Reqs.                 | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|               | 1  | group7-iban<br>d-orbit1  | (5) GROUP7  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG 0,0;<br>LOW-SKY      | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [1]   |
|               | 2  | wfc2par-g7-<br>i-o1  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [1]   |
|               | 3  | group7-iban<br>d-orbit2  | (5) GROUP7  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG 0.25,-3;<br>LOW-SKY  | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [2]   |
|               | 4  | wfc2par-g7-<br>i-o2  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [2]   |
|               | 5  | group7-iban<br>d-orbit3  | (5) GROUP7  | ACS/WFC, ACCUM, WFC      | F775W               | CR-SPLIT=NO                           | POS TARG -0.25,-3;<br>LOW-SKY | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [3]   |
|               | 6  | wfc2par-g7-<br>i-o3  | ANY   | WFPC2, IMAGE, PC1        | F814W               | CR-SPLIT=NO                           |                               | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [3]   |







Proposal 10574 - Visit 10 - Witnessing Galaxy Transformation in Galaxy Groups at z > 1

Thu Nov 24 02:24:53 GMT 2005

| Visit         | <b>Proposal 10574, Visit 10</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: ACS/WFC, WFPC2<br>Special Requirements: SAME ORIENT AS 09<br>Comments: Group 7 z-band sequence |                     |  |   |                          |                   |                             |   |   |       |
|---------------|---|---------------------|--|---|--------------------------|-------------------|-----------------------------|---|---|-------|
|               | Patterns  | #                   | Primary Pattern  |   |                          | Secondary Pattern |                             |   | Exposures   |       |
|               |   | (1)                 | Pattern Type=ACS-WFC-DITHER-LINE<br>Purpose=DITHER<br>Number Of Points=2<br>Point Spacing=3.011<br>Line Spacing= | Coordinate Frame=POS-TARG<br>Pattern Orientation=85.3<br>Angle Between Sides=<br>Center Pattern=false |                          |                   |                             |   | (1-2), (3-4), (5-6), (7-8), (9-10)  |       |
| Fixed Targets | #   | Name                | Target Coordinates   |   | Targ. Coord. Corrections |                   | Fluxes                      | Miscellaneous                                 |   |       |
|               | (5)   | GROUP7              | RA: 08 47 48.6090 (131.9525375d)<br>Dec: +44 44 12.40 (44.73678d)<br>Equinox: J2000<br>Plate Id: (?)             |   |                          |                   | V=24.0                      | Coordinate Source: Nakata et al. 2005         |   |       |
| Exposures     | #   | Label               | Target   | Config,Mode,Aperture  | Spectral Els.            | Opt. Params.      | Special Reqs.               | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|               | 1   | group7-zband-orbit1 | (5) GROUP7   | ACS/WFC, ACCUM, WFC   | F850LP                   | CR-SPLIT=NO       | POS TARG 0,0;<br>LOW-SKY    | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [1]   |
|               | 2   | wfc2par-g7-z-01     | ANY  | WFPC2, IMAGE, PC1   | F814W                    | CR-SPLIT=NO       |                             | Pattern 1-2 (1)<br>Prime + Parallel Group 1-2 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [1]   |
|               | 3   | group7-zband-orbit2 | (5) GROUP7   | ACS/WFC, ACCUM, WFC   | F850LP                   | CR-SPLIT=NO       | POS TARG 0.25,3;<br>LOW-SKY | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [2]   |
|               | 4   | wfc2par-g7-z-02     | ANY  | WFPC2, IMAGE, PC1   | F814W                    | CR-SPLIT=NO       |                             | Pattern 3-4 (1)<br>Prime + Parallel Group 3-4 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [2]   |
|               | 5   | group7-zband-orbit3 | (5) GROUP7   | ACS/WFC, ACCUM, WFC   | F850LP                   | CR-SPLIT=NO       | POS TARG 0.5,3;<br>LOW-SKY  | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [3]   |
|               | 6   | wfc2par-g7-z-03     | ANY  | WFPC2, IMAGE, PC1   | F814W                    | CR-SPLIT=NO       |                             | Pattern 5-6 (1)<br>Prime + Parallel Group 5-6 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [3]   |

Proposal 10574 - Visit 10 - Witnessing Galaxy Transformation in Galaxy Groups at  $z > 1$

| #                     | Label | Target                  | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.                 | Groups  | Exp. Time/[Actual Dur.]   | Orbit |
|-----------------------|-------|-------------------------|-----------------------------------|---------------|--------------|-------------------------------|---|---|-------|
| Exposures (continued) | 7     | group7-zban<br>d-orbit4 | (5) GROUP7<br>ACS/WFC, ACCUM, WFC | F850LP        | CR-SPLIT=NO  | POS TARG -0.25,-3;<br>LOW-SKY | Pattern 7-8 (1)<br>Prime + Parallel Gro<br>up 7-8   | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [4]   |
|                       | 8     | wfc2par-g7-<br>z-o4     | ANY<br>WFPC2, IMAGE, PC1          | F814W         | CR-SPLIT=NO  |                               | Pattern 7-8 (1)<br>Prime + Parallel Gro<br>up 7-8   | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [4]   |
|                       | 9     | group7-zban<br>d-orbit5 | (5) GROUP7<br>ACS/WFC, ACCUM, WFC | F850LP        | CR-SPLIT=NO  | POS TARG -0.5,-3;<br>LOW-SKY  | Pattern 9-10 (1)<br>Prime + Parallel Gro<br>up 9-10 | 2000.0 Secs<br>[==>1050.0 Secs (Pattern 1)]<br>[==>1050.0 Secs (Pattern 2)] | [5]   |
|                       | 10    | wfc2par-g7-<br>z-o5     | ANY<br>WFPC2, IMAGE, PC1          | F814W         | CR-SPLIT=NO  |                               | Pattern 9-10 (1)<br>Prime + Parallel Gro<br>up 9-10 | 1100.0 Secs<br>[==>800.0 Secs (Pattern 1)]<br>[==>800.0 Secs (Pattern 2)]   | [5]   |

