



11994 - HST Participation in the IYA 100 Hours of Astronomy

Cycle: 16, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

INVESTIGATORS

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|-------------------------------|--|-------------------------|
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VISITS

| <i>Visit</i> | <i>Targets used in Visit</i> | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 01 | (1) NGC-5679 | WFPC2 | 4 | 03-Mar-2009 22:03:31.0 | yes |
| 02 | (1) NGC-5679 | WFPC2 | 4 | 03-Mar-2009 22:03:38.0 | yes |

8 Total Orbits Used

ABSTRACT

As a leader in astronomical imaging and delivering Hubble science to the world, the Office of Public Outreach at Space Telescope Science Institute wishes to organize a Hubble Space Telescope participation in the 2009 International Year of Astronomy (IYA) event entitled “100 Hours of Astronomy.” This cornerstone project, which will be held April 2 – 5, 2009, will bring together observers from all over the world to use and look

through telescopes to admire the heavens. We will have a public voting session that will highlight six astronomical objects that have never been viewed with Hubble. Objects have been preselected to fit in the field of view of the WFPC2 camera, and that are observable during the April viewing window. The voting session will close on March 1st, 2009, and the most popular candidate will be observed and released during the “100 Hours of Astronomy” event. Observations will be made with four filters for a composite press release image. We ask for eight orbits of Hubble time from the Director’s Discretionary pool of orbits. This will allow a modest amount of S/N for the candidate that will be selected. The archive science data products will become public at the time of release.

OBSERVING DESCRIPTION

We will obtain deep and well-sampled exposures of the target voted on by the public. We employ a dither box pattern, with two long exposures per orbit with broadband B, V, I, and redshifted H-alpha (F673N) filters. The data will be drizzled to a smaller output pixel scale to enhance resolution. Our carefully prepared dataset will be ingested into MAST as a High Level Science Product (HLSP), so that it will be accessible via archive searches.

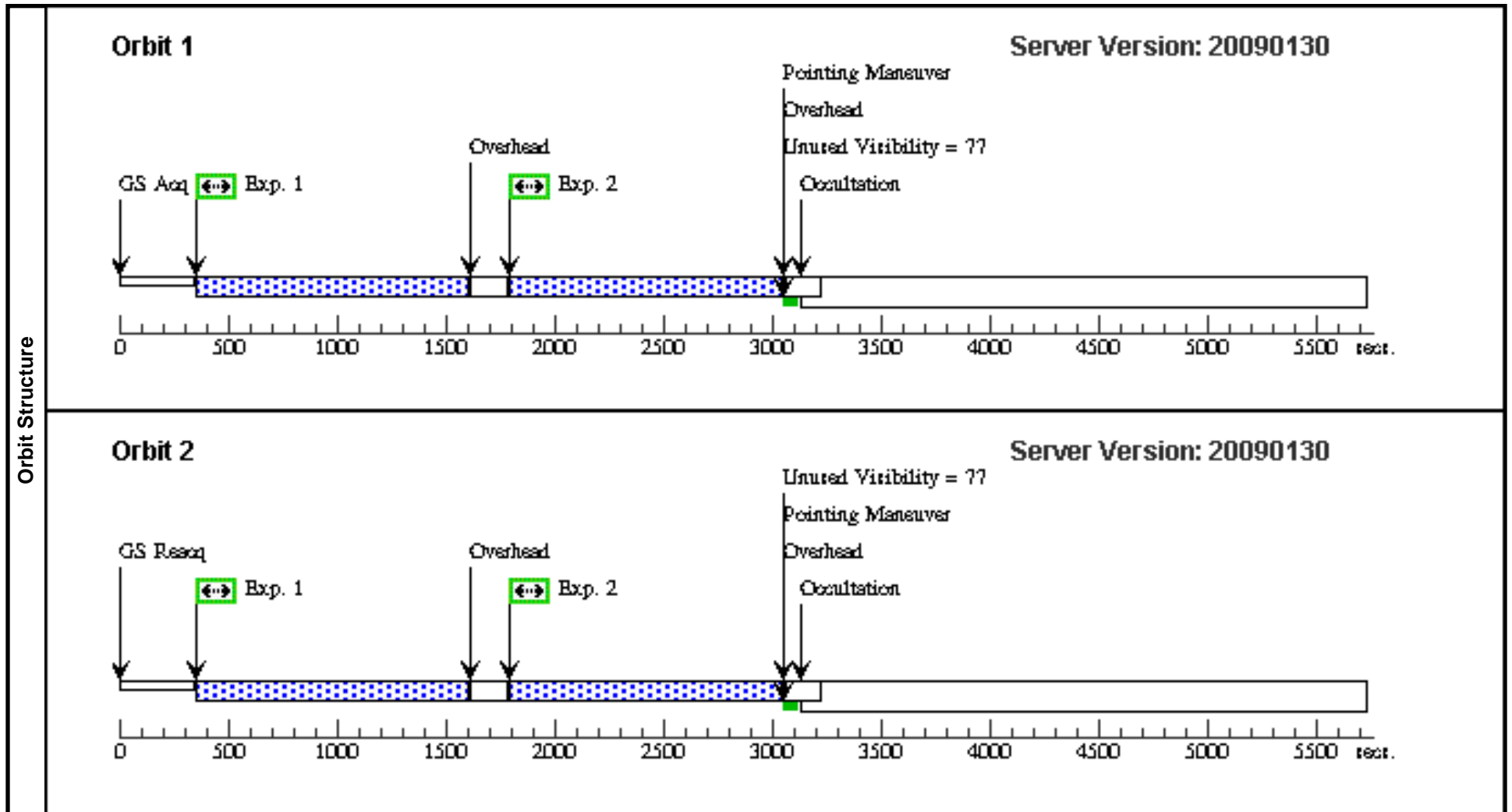
ADDITIONAL COMMENTS

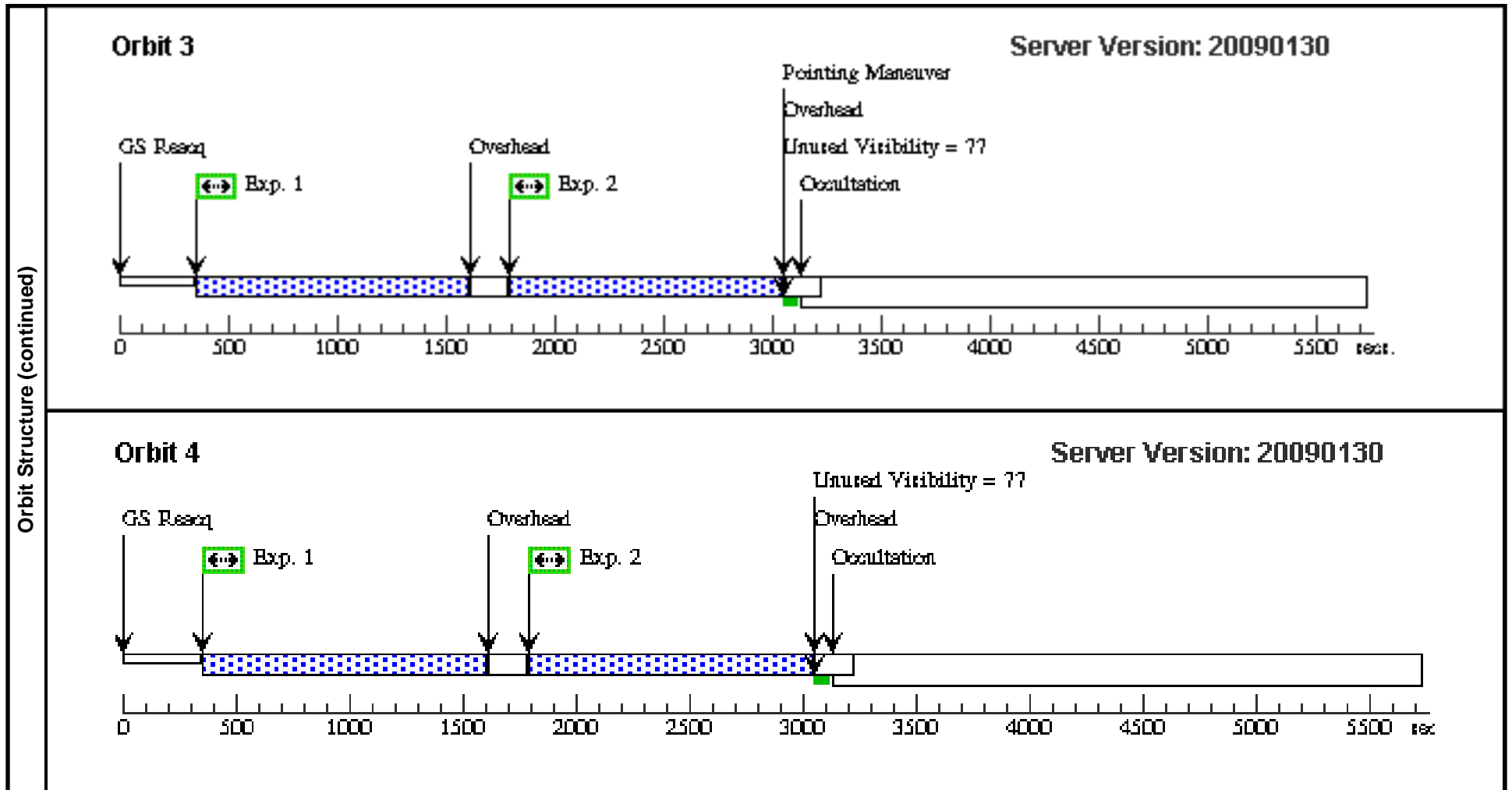
We request that data dumps be scheduled as soon as possible following the completion of our visits, and fast-track data delivery.

Proposal 11994 - Visit 01 - HST Participation in the IYA 100 Hours of Astronomy

Wed Mar 04 03:03:42 GMT 2009

| | | | | | | | | | | | |
|---|--|---|---|-----------------------------|---------------------------------|---------------------|-----------------------------|-----------------------|--------------------------------|------------------|--------------|
| Visit | Proposal 11994, Visit 01, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: ORIENT 225D TO 230 D; BEFORE 03-APR-2009:00:00:00; SEQ 01,02 WITHIN 8 Orbits | | | | | | | | | | |
| | Patterns | # | Primary Pattern | | | | Secondary Pattern | | | Exposures | |
| (1) | | Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017 | Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false | | | | | | (1-2) | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | Fluxes | | Miscellaneous | | | |
| | (1) | NGC-5679 | RA: 14 35 10.9485 (218.7956188d) Dec: +05 21 32.10 (5.35892d) Equinox: J2000 | | | V=12+/-2 | | Reference Frame: ICRS | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | | Orbit |
| | 1 | | (1) NGC-5679 | WFPC2, IMAGE, WF3-FIX | F450W | CR-SPLIT=NO | GS ACQ SCENARI O BASE1T3 | Pattern 1-2 (1) | 1100 Secs | | |
| | | | | | | | | | [=>(Pattern 1)] | | [1] |
| | | | | | | | | | [=>(Pattern 2)] | | [2] |
| | | | | | | | | | [=>(Pattern 3)] | | [3] |
| | | | | | | | | | [=>(Pattern 4)] | | [4] |
| | 2 | | (1) NGC-5679 | WFPC2, IMAGE, WF3-FIX | F606W | CR-SPLIT=NO | | Pattern 1-2 (1) | 1100 Secs | | |
| | | | | | | | | | [=>(Pattern 1)] | | [1] |
| | | | | | | | | | [=>(Pattern 2)] | | [2] |
| | | | | | | | | | [=>(Pattern 3)] | | [3] |
| | | | | | | | | [=>(Pattern 4)] | | [4] | |





Proposal 11994 - Visit 02 - HST Participation in the IYA 100 Hours of Astronomy

Wed Mar 04 03:03:43 GMT 2009

| | | | | | | | | | | | |
|---|--|---|---|-----------------------------|---------------------------------|---------------------|-----------------------------|-----------------------|--------------------------------|-----------------|------------------|
| Visit | Proposal 11994, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SAME ORIENT AS 01; BEFORE 03-APR-2009:00:00:00 | | | | | | | | | | |
| | Patterns | # | Primary Pattern | | | | Secondary Pattern | | | | Exposures |
| (1) | | Pattern Type=WFPC2-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.559017 Line Spacing=0.559017 | Coordinate Frame=POS-TARG Pattern Orientation=26.56505 Angle Between Sides=143.130102 Center Pattern=false | | | | | (1-2) | | | |
| Fixed Targets | # | Name | Target Coordinates | | Targ. Coord. Corrections | | Fluxes | Miscellaneous | | | |
| | (1) | NGC-5679 | RA: 14 35 10.9485 (218.7956188d) Dec: +05 21 32.10 (5.35892d) Equinox: J2000 | | | | V=12+/-2 | Reference Frame: ICRS | | | |
| <i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> | | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | | Orbit |
| | 1 | | (1) NGC-5679 | WFPC2, IMAGE, WF3-FIX | F814W | CR-SPLIT=NO | GS ACQ SCENARI O BASE1T3 | Pattern 1-2 (1) | 1100 Secs | | |
| | | | | | | | | | | [=>(Pattern 1)] | [1] |
| | | | | | | | | | | [=>(Pattern 2)] | [2] |
| | | | | | | | | | | [=>(Pattern 3)] | [3] |
| | | | | | | | | | | [=>(Pattern 4)] | [4] |
| | 2 | | (1) NGC-5679 | WFPC2, IMAGE, WF3-FIX | F673N | CR-SPLIT=NO | | Pattern 1-2 (1) | 1100 Secs | | |
| | | | | | | | | | [=>(Pattern 1)] | [1] | |
| | | | | | | | | | [=>(Pattern 2)] | [2] | |
| | | | | | | | | | [=>(Pattern 3)] | [3] | |
| | | | | | | | | | [=>(Pattern 4)] | [4] | |

