



## 13927 - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

Cycle: 21, Proposal Category: GO/DD

(Availability Mode: AVAILABLE)

### INVESTIGATORS

| <i>Name</i>   | <i>Institution</i>                    | <i>E-Mail</i>              |
|---|---------------------------------------|----------------------------|
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### VISITS

| <i>Visit</i> | <i>Targets used in Visit</i>               | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|--|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 01           | (1) ALPHA-CEN-A<br>(2) ALPHA-CEN-B<br>WAVE | STIS/CCD                            | 9                  | 17-Jul-2014 21:15:33.0        | yes                           |
| 03           | (1) ALPHA-CEN-A<br>(2) ALPHA-CEN-B<br>WAVE | STIS/CCD                            | 9                  | 17-Jul-2014 21:18:19.0        | yes                           |
| 02           | (1) ALPHA-CEN-A<br>(2) ALPHA-CEN-B<br>WAVE | STIS/CCD                            | 9                  | 17-Jul-2014 21:22:37.0        | yes                           |
| 04           | (1) ALPHA-CEN-A<br>(2) ALPHA-CEN-B<br>WAVE | STIS/CCD                            | 9                  | 17-Jul-2014 21:28:32.0        | 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           | (1) ALPHA-CEN-A<br>(2) ALPHA-CEN-B<br>WAVE | STIS/CCD                            | 9                  | 17-Jul-2014 21:35:45.0        | yes                           |

45 Total Orbits Used

## **ABSTRACT**

One of the most fascinating exoplanet findings of the past years is undoubtedly the discovery of an Earth-mass exoplanet orbiting Alpha Centauri B. Alpha Cen Bb orbits one component of the closest stellar system to the Earth and has the potential to become a true Rosetta stone in exoplanet science, if its transiting nature were revealed. In 2013, we observed Alpha Centauri B during 16 orbits with HST/STIS to search for the transit of Alpha Cen Bb. We recently carried out in-depth photometric analyses of this dataset that resulted in the clear detection of a transit-shaped pattern. Several factors, however, prevent us from securing the planetary nature of the signal found in the STIS time-series.

Now that we know where and when to look for, we propose to confirm the repeatability of this signal and to firmly establish Alpha Cen Bb's existence and tighten its physical and orbital properties. We base our observing strategy on the successful approach employed just one year ago with the same instrument. Until Aug 9th 2014, combination of HST available roll angles, Alpha Cen binary separation and position angle will match the nearly-ideal configuration we had in July 2013. It would even be possible to benefit from CVZ status from 24/7/2014 to 28/7/2014, in which one transit of Alpha Centauri Bb is expected. HST/STIS is the only facility able to confirm a transit from such a small planet at a high confidence level.

## **OBSERVING DESCRIPTION**

This is a follow-up of PID13180 targeting Alpha Cen B. The exact same observing strategy is applied. The chosen ORIENT allows us to exclude the brighter Alpha Cen A by placing the slit close to the normal of the binary separation vector. Considering a binary position angle of 282.1 degrees, this translates to an ORIENT of 57 degrees. The next possible window starting from July 14th to August 8th allows ORIENT of ~75 degrees, which is acceptable from our program.

We propose to do the acquisition of Alpha Cen B in the same way as for programs #12374, 12758, 13060 and 13180 where an ACQ exposure is first performed on Alpha Cen A before shifting the pointing to Alpha Cen B, which is defined here as an offset target. ACQ and ACQ/PEAK exposures are then performed on Alpha Cen B, using the narrowest long slit (52"x0.05") in order to obtain the best possible centering of the star in the largest slit (52"x2") that will be used for the science exposures. This choice is made to minimize slit losses while hiding Alpha Cen A (which is also why the

telescope roll angle matters).

For the science exposures, we will use STIS/CCD with G750M (i6094 setting) and an exposure time of 6s with GAIN=4. Alpha Cen B will be saturated with the bleeding extending over  $\sim \pm 30$  pixels from the spectral trace (and would not reach the diffraction spikes from Alpha Cen A for the selected roll angle).

Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

| <b>Visit</b>  | <b>Proposal 13927, Jul-Aug-2014 (01), withdrawn</b> <span style="float: right;">Fri Jul 18 01:36:12 GMT 2014</span><br><b>Diagnostic Status: Error</b><br>Scientific Instruments: STIS/CCD<br>Special Requirements: ORIENT 75D TO 75 D; BETWEEN 28-JUL-2014:11:39:00 AND 29-JUL-2014:01:09:00; BETWEEN 31-JUL-2014:17:19:00 AND 01-AUG-2014:06:49:00; BETWEEN 03-AUG-2014:22:59:00 AND 04-AUG-2014:12:29:00; BETWEEN 07-AUG-2014:04:38:00 AND 07-AUG-2014:18:08:00  |                                |                                    |                                   |                               |                       |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
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|   | <b>Diagnosics</b><br>(Jul-Aug-2014 (01)) Error (Orbit Planner): TOO MANY SUBEXPOSURES IN ONE GROUP (REQUEST HELP FROM YOUR PC)<br>(Jul-Aug-2014 (01)) Warning (Orbit Planner): LONG SU LIKELY TO INTERSECT THE SAA  |                                |                                    |                                   |                               |                       |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| <b>Fixed Targets</b>  | <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>(1)</td> <td>ALPHA-CEN-A</td> <td>RA: 14 39 29.3800 (219.8724167d)</td> <td>Proper Motion RA: -3.82 arcsec/yr</td> <td>V=-0.1+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: HD128620</td> <td>Dec: -60 49 58.40 (-60.83289d)</td> <td>Proper Motion Dec: +0.31 arcsec/yr</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR-5459</td> <td>Equinox: J2000</td> <td>Parallax: 0.747"</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2013.480</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Radial Velocity: 24 km/sec</td> <td></td> <td></td> </tr> <tr> <td colspan="6"><i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i></td> </tr> <tr> <td>(2)</td> <td>ALPHA-CEN-B</td> <td>Offset from ALPHA-CEN-A</td> <td></td> <td>V=1.33+/-0.1</td> <td>Offset Position (ALPHA-CEN-B)</td> </tr> <tr> <td></td> <td>Alt Name1: HD128621</td> <td>RA Offset: -0.558 Secs</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR5460</td> <td>Dec Offset: 0.974 Arcsec</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="6"><i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i></td> </tr> </tbody> </table> | #                              | Name                               | Target Coordinates                | Targ. Coord. Corrections      | Fluxes                | Miscellaneous | (1) | ALPHA-CEN-A | RA: 14 39 29.3800 (219.8724167d) | Proper Motion RA: -3.82 arcsec/yr | V=-0.1+/-0.1 | Reference Frame: ICRS |  | Alt Name1: HD128620 | Dec: -60 49 58.40 (-60.83289d) | Proper Motion Dec: +0.31 arcsec/yr |  |  |  | Alt Name2: HR-5459 | Equinox: J2000 | Parallax: 0.747" |  |  |  |  |  | Epoch of Position: 2013.480 |  |  |  |  |  | Radial Velocity: 24 km/sec |  |  | <i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i> |  |  |  |  |  | (2) | ALPHA-CEN-B | Offset from ALPHA-CEN-A |  | V=1.33+/-0.1 | Offset Position (ALPHA-CEN-B) |  | Alt Name1: HD128621 | RA Offset: -0.558 Secs |  |  |  |  | Alt Name2: HR5460 | Dec Offset: 0.974 Arcsec |  |  |  | <i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i> |  |  |  |  |  |
|   | #   | Name                           | Target Coordinates                 | Targ. Coord. Corrections          | Fluxes                        | Miscellaneous         |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | (1)   | ALPHA-CEN-A                    | RA: 14 39 29.3800 (219.8724167d)   | Proper Motion RA: -3.82 arcsec/yr | V=-0.1+/-0.1                  | Reference Frame: ICRS |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | Alt Name1: HD128620   | Dec: -60 49 58.40 (-60.83289d) | Proper Motion Dec: +0.31 arcsec/yr |                                   |                               |                       |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | Alt Name2: HR-5459  | Equinox: J2000                 | Parallax: 0.747"                   |                                   |                               |                       |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   |                                | Epoch of Position: 2013.480        |                                   |                               |                       |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   |                                | Radial Velocity: 24 km/sec         |                                   |                               |                       |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| <i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i>  |   |                                |                                    |                                   |                               |                       |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| (2)   | ALPHA-CEN-B   | Offset from ALPHA-CEN-A        |                                    | V=1.33+/-0.1                      | Offset Position (ALPHA-CEN-B) |                       |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | Alt Name1: HD128621   | RA Offset: -0.558 Secs         |                                    |                                   |                               |                       |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | Alt Name2: HR5460   | Dec Offset: 0.974 Arcsec       |                                    |                                   |                               |                       |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| <i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i> |   |                                |                                    |                                   |                               |                       |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |

Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

| #  | Label                       | Target          | Config,Mode,Aperture        | Spectral Els.   | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|--|-----------------------------|-----------------|-----------------------------|-----------------|--------------|---------------|--------|---------------------------------|-------|
| 1  | ACQ_ALP<br>HA-CEN-A         | (1) ALPHA-CEN-A | STIS/CCD, ACQ, F25ND5       | MIRROR          |              |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| 2  | ACQ_ALP<br>HA-CEN-B         | (2) ALPHA-CEN-B | STIS/CCD, ACQ, F25ND5       | MIRROR          |              |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| 3  | ACQPEAK<br>_ALPHA-C<br>EN-B | (2) ALPHA-CEN-B | STIS/CCD, ACQ/PEAK, 52X0.05 | G750M<br>6094 A |              |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| <i>Comments: Setting GAIN=4, which needs to be done within the AVAILABLE mode, is required to avoid saturation for this acquisition.</i> |                             |                 |                             |                 |              |               |        |                                 |       |
| 4  | GO-WAVE<br>CAL              | WAVE            | STIS/CCD, ACCUM, 52X0.2     | G750M<br>6094 A |              |               |        | [==>]                           | [1]   |

Exposures

Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |   |                 |  |                          |  |
|---|---|-----------------|--|--------------------------|--|
| 5 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | 6 Secs X 337 (2022 Secs) |  |
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Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| 6 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | 6 Secs X 336 (2016 Secs)<br>[=>(Copy 1)]<br>[=>(Copy 2)]<br>[=>(Copy 3)]<br>[=>(Copy 4)]<br>[=>(Copy 5)]<br>[=>(Copy 6)]<br>[=>(Copy 7)]<br>[=>(Copy 8)]<br>[=>(Copy 9)]<br>[=>(Copy 10)]<br>[=>(Copy 11)]<br>[=>(Copy 12)]<br>[=>(Copy 13)]<br>[=>(Copy 14)]<br>[=>(Copy 15)]<br>[=>(Copy 16)]<br>[=>(Copy 17)]<br>[=>(Copy 18)]<br>[=>(Copy 19)]<br>[=>(Copy 20)] | [5] |
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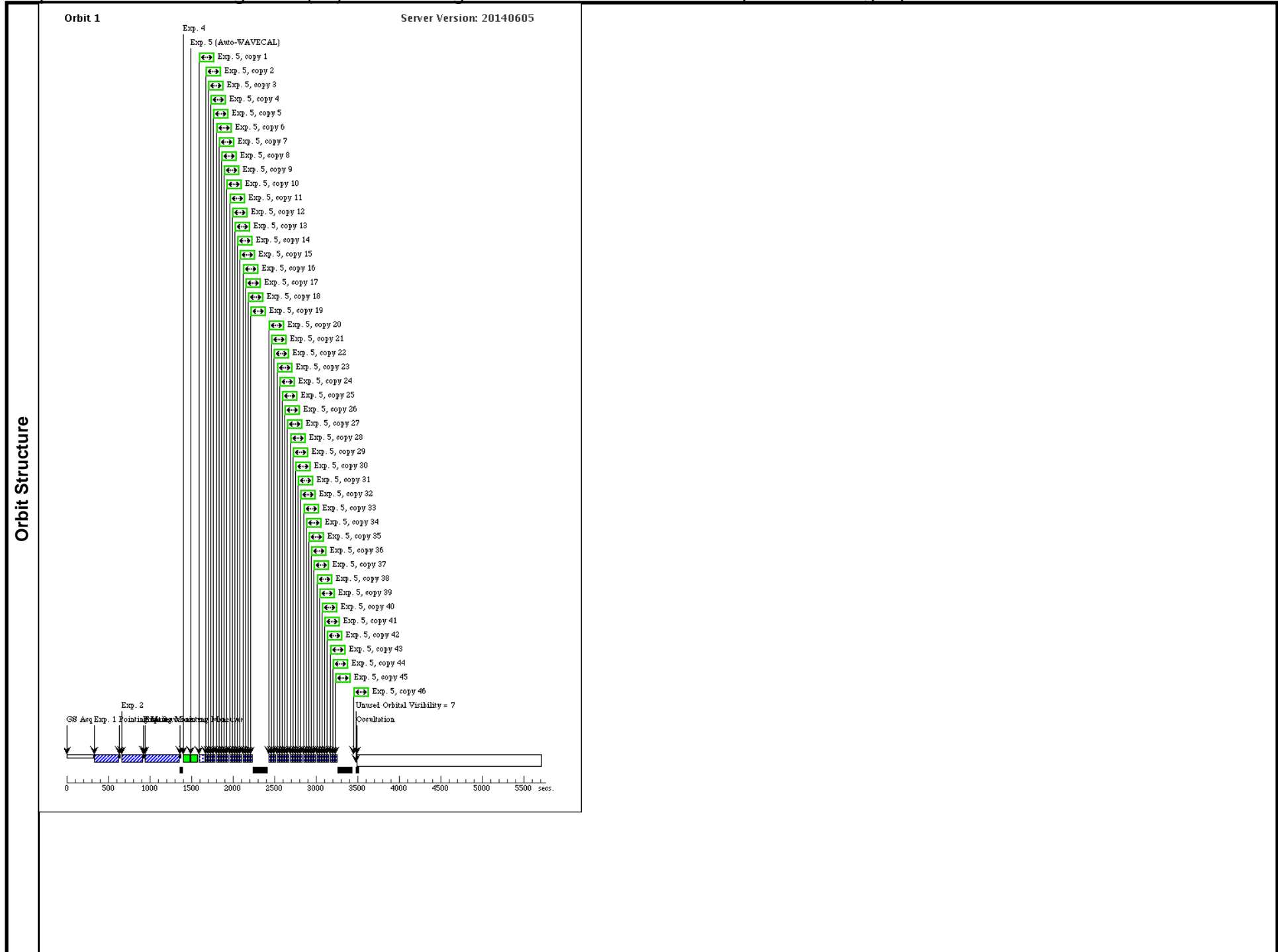
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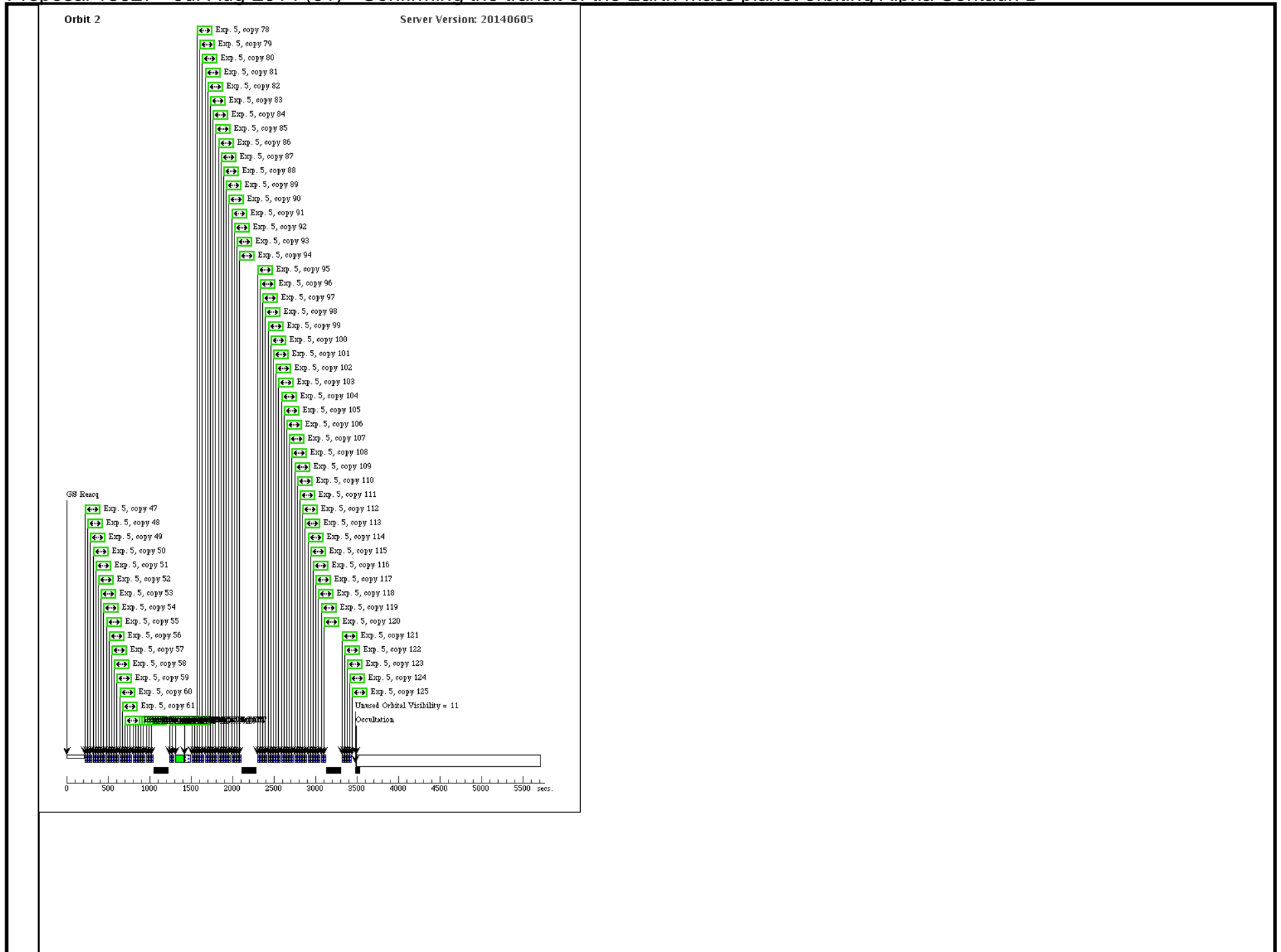
Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i> |   |  |     |
| 7   | GO-WAVE WAVE<br>CAL<br>STIS/CCD, ACCUM, 52X0.2<br>G750M<br>6094 A | [==>]  | [9] |

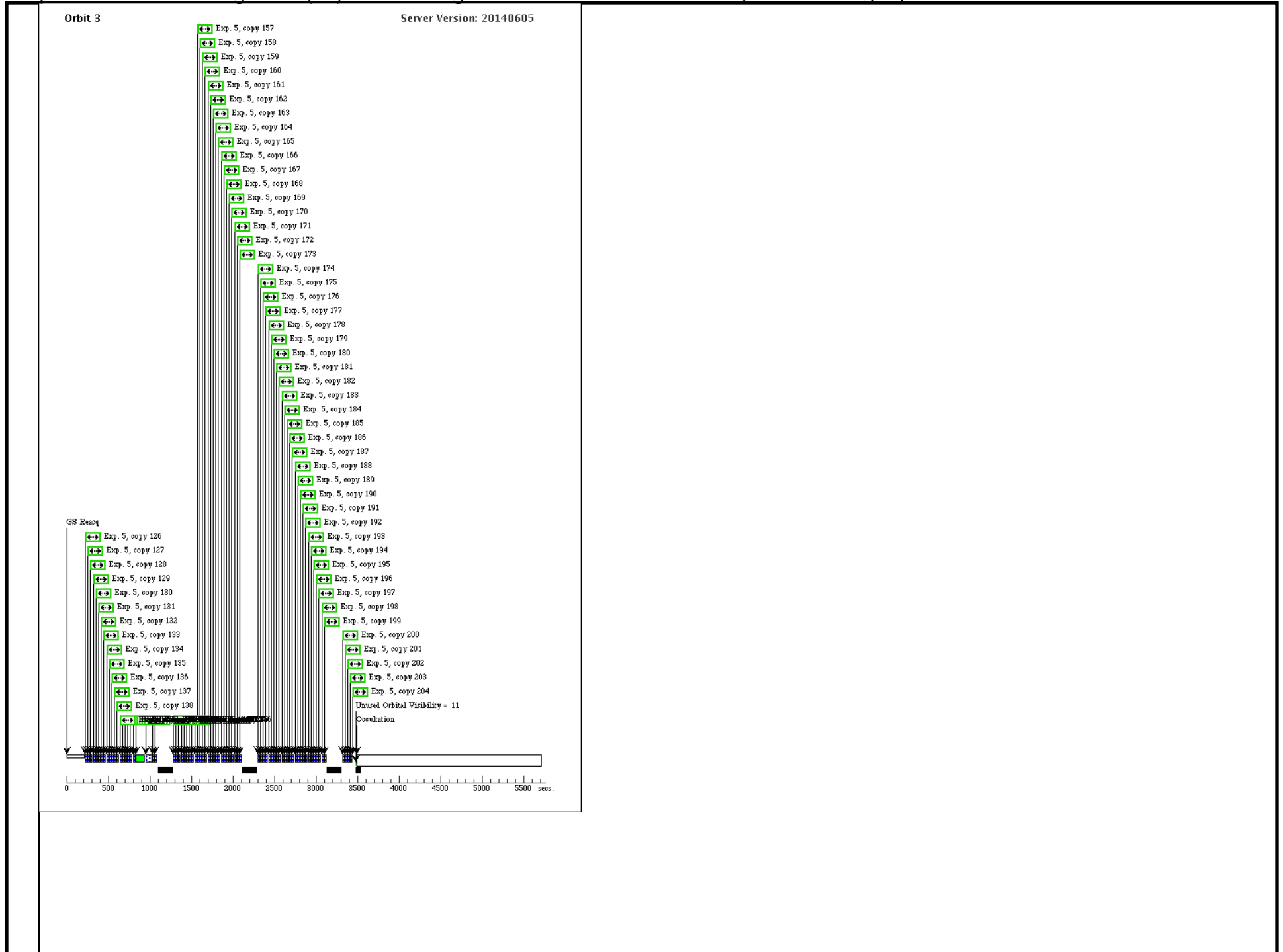
Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



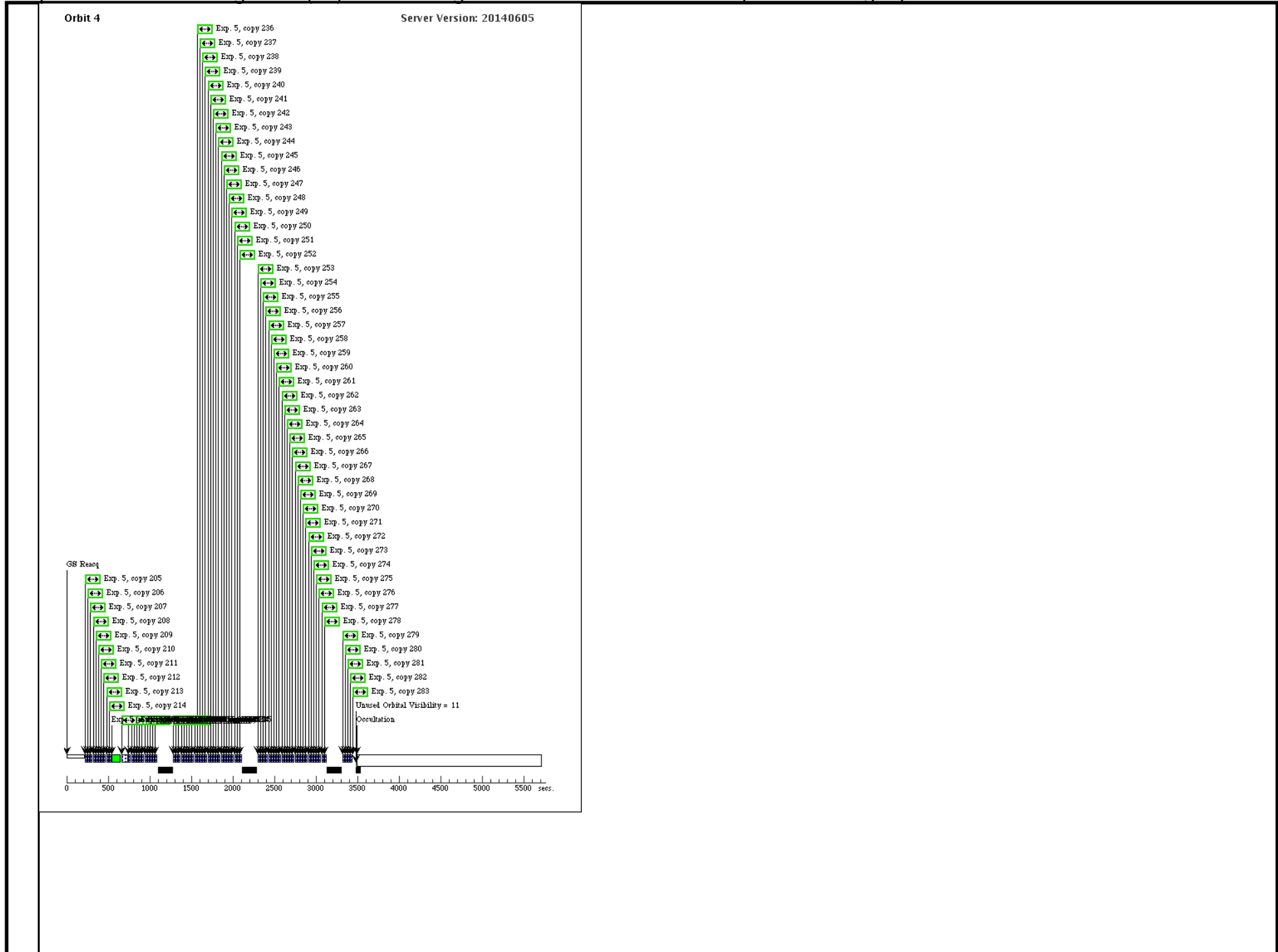
# Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



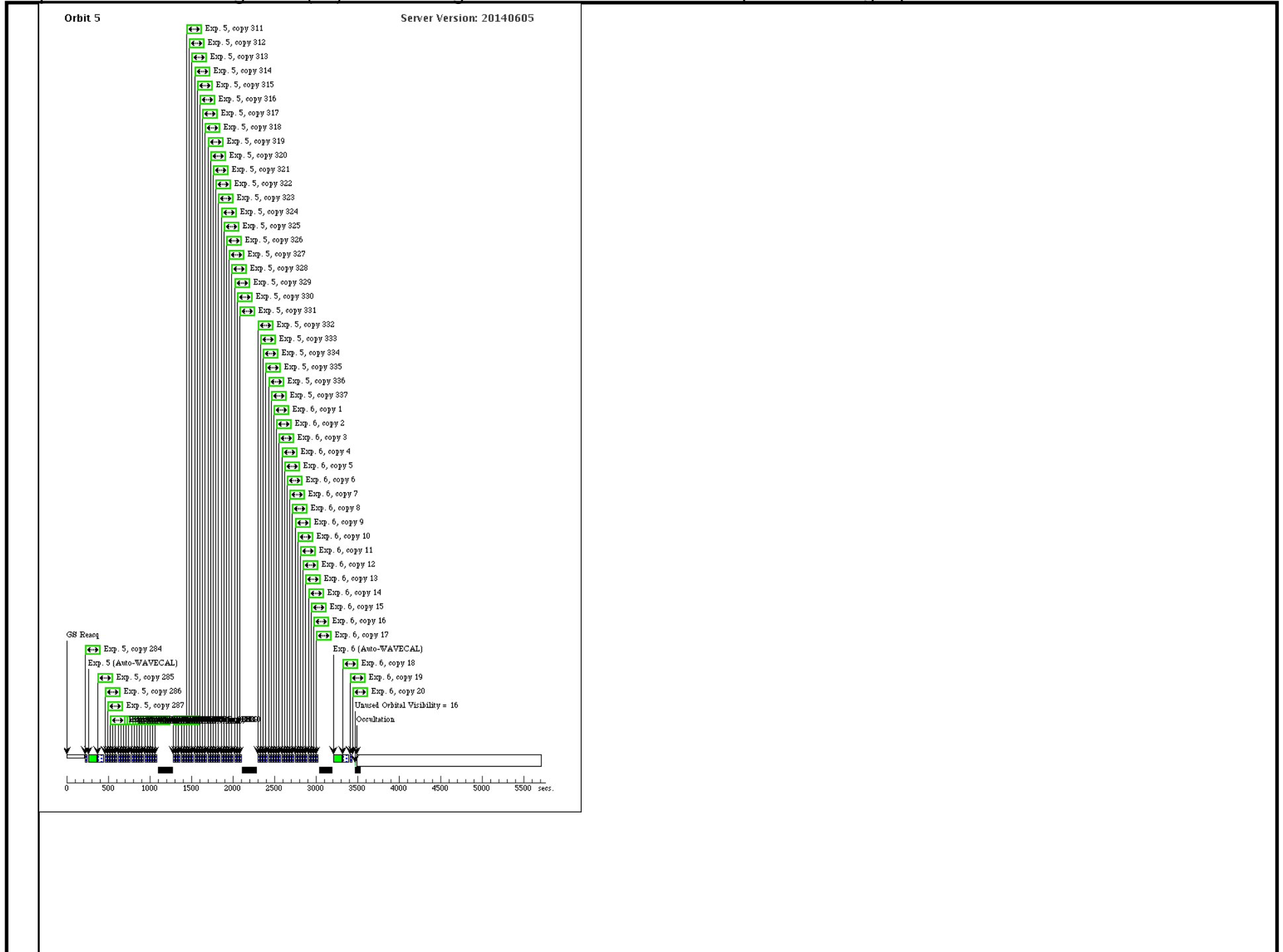
Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



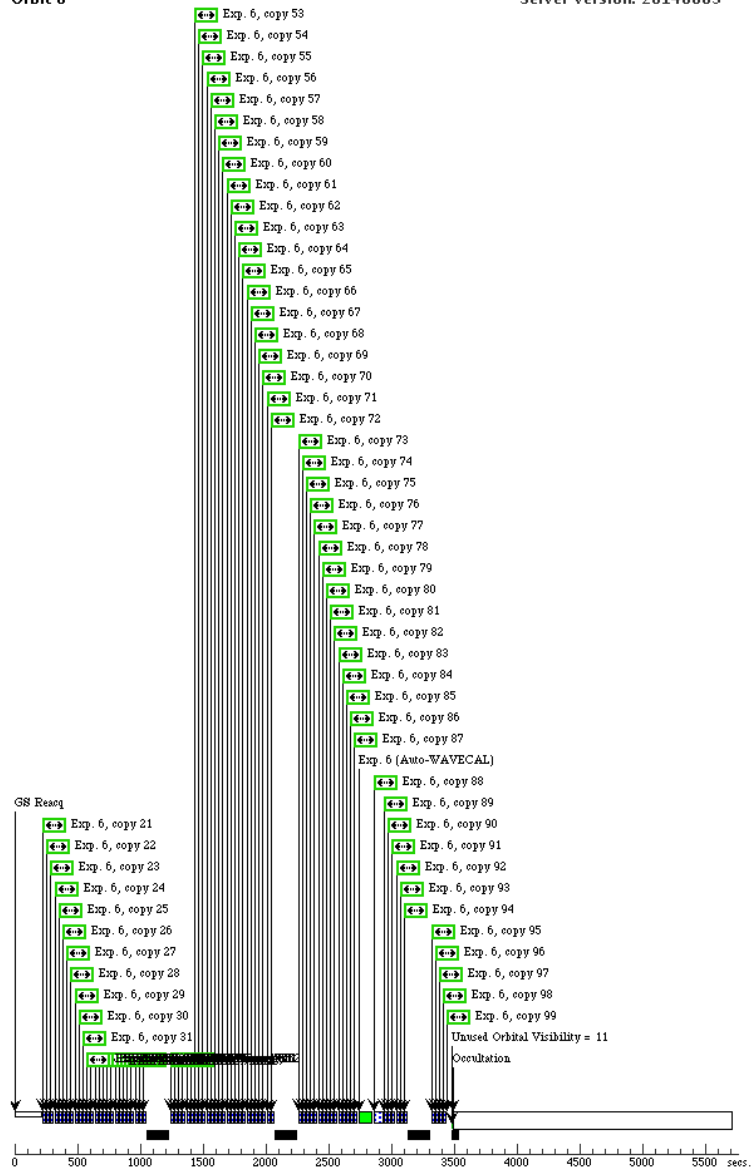
# Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

Orbit 6

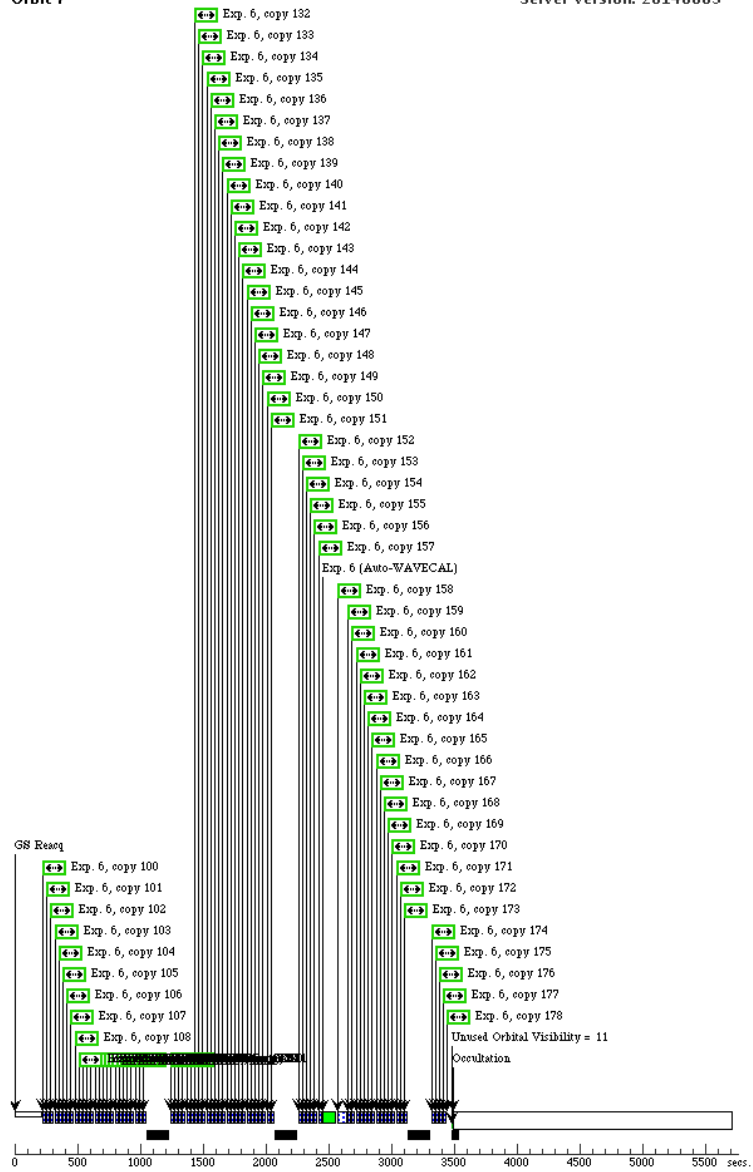
Server Version: 20140605



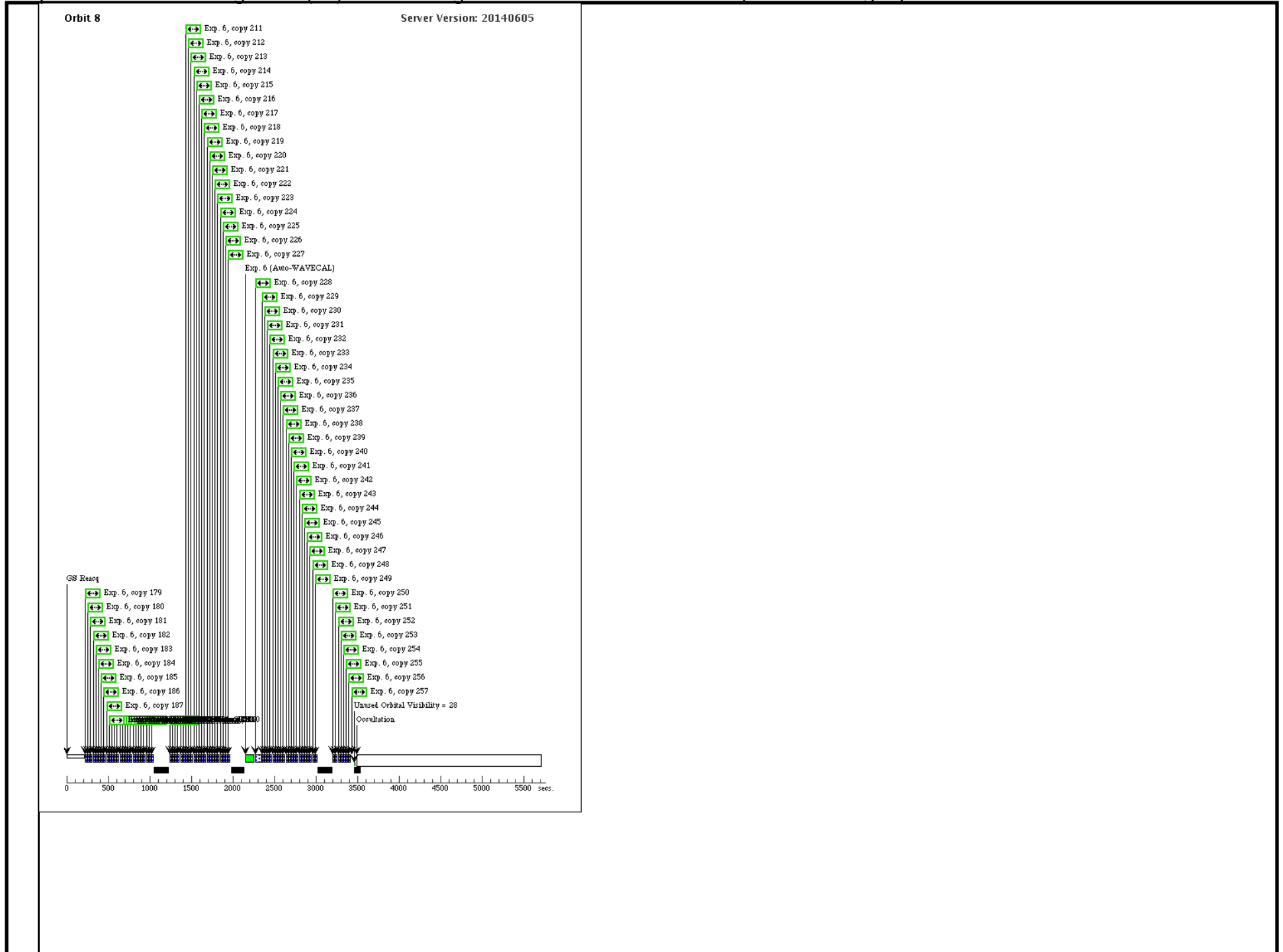
Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

Orbit 7

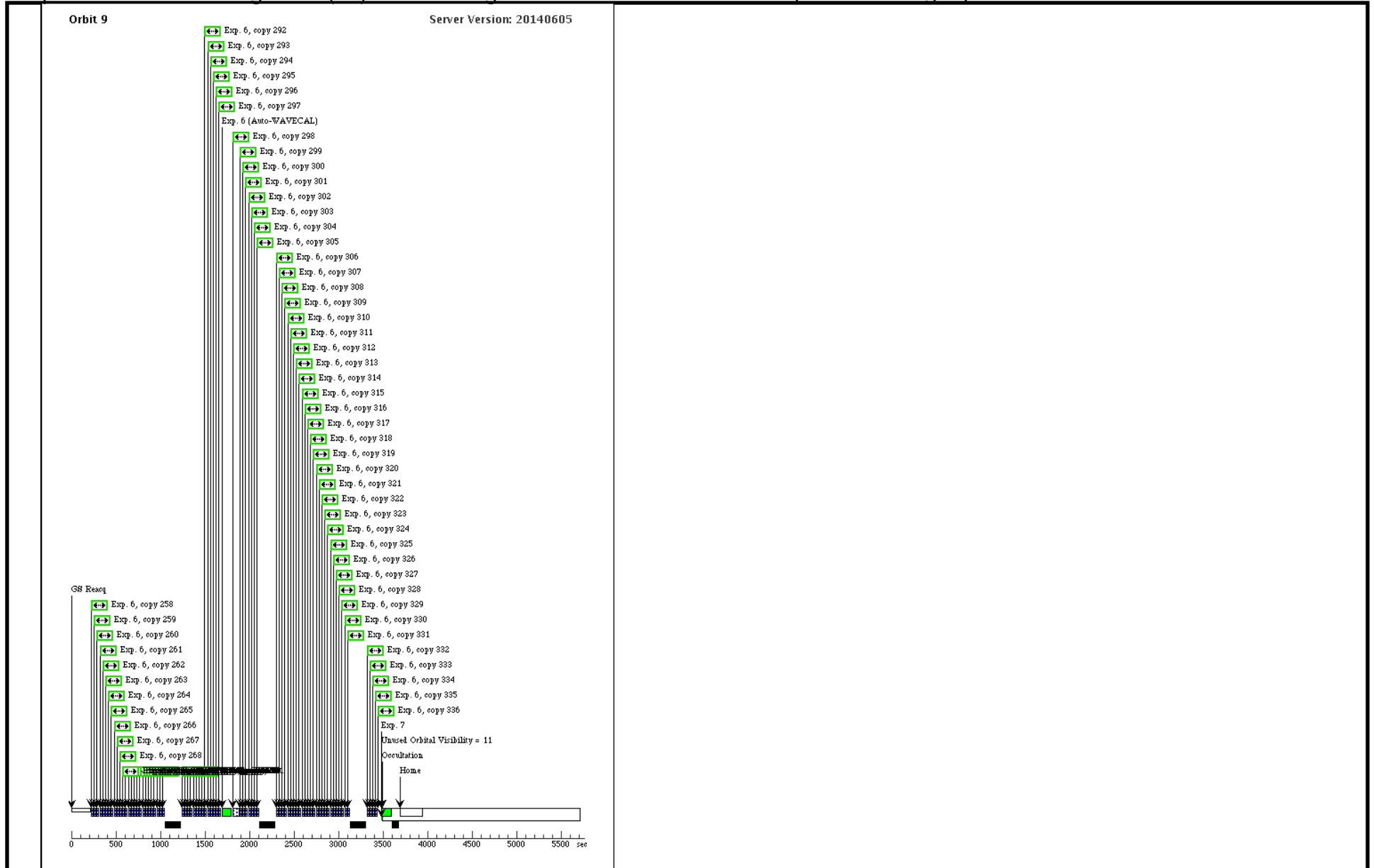
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Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (01) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

| <b>Visit</b>  | <b>Proposal 13927, Jul-Aug-2014 (03), withdrawn</b> <span style="float: right;">Fri Jul 18 01:36:16 GMT 2014</span><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: STIS/CCD<br>Special Requirements: ORIENT 70D TO 85 D; BETWEEN 28-JUL-2014:11:39:00 AND 29-JUL-2014:01:09:00; BETWEEN 31-JUL-2014:17:19:00 AND 01-AUG-2014:06:49:00; BETWEEN 03-AUG-2014:22:59:00 AND 04-AUG-2014:12:29:00; BETWEEN 07-AUG-2014:04:38:00 AND 07-AUG-2014:18:08:00<br><i>Comments: Preferred ORIENT is 75, but opening up the range to check on guide stars and other windows not available at 75 degrees.</i>  |                                  |                                    |                          |                               |               |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|---|---|----------------------------------|------------------------------------|--------------------------|-------------------------------|---------------|------|--------------------|--------------------------|--------|---------------|-----|-------------|----------------------------------|-----------------------------------|--------------|-----------------------|--|---------------------|--------------------------------|------------------------------------|--|--|--|--------------------|----------------|------------------|--|--|--|--|--|-----------------------------|--|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|-----|-------------|-------------------------|--|--------------|-------------------------------|--|---------------------|------------------------|--|--|--|--|-------------------|--------------------------|--|--|--|---|--|--|--|--|--|
|   | <b>Diagnosics</b><br>(Jul-Aug-2014 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Jul-Aug-2014 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Jul-Aug-2014 (03)) Warning (Orbit Planner): LONG SU LIKELY TO INTERSECT THE SAA<br>(Jul-Aug-2014 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Jul-Aug-2014 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |                                  |                                    |                          |                               |               |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| <b>Fixed Targets</b>  | <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>(1)</td> <td>ALPHA-CEN-A</td> <td>RA: 14 39 29.3800 (219.8724167d)</td> <td>Proper Motion RA: -3.82 arcsec/yr</td> <td>V=-0.1+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: HD128620</td> <td>Dec: -60 49 58.40 (-60.83289d)</td> <td>Proper Motion Dec: +0.31 arcsec/yr</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR-5459</td> <td>Equinox: J2000</td> <td>Parallax: 0.747"</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2013.480</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Radial Velocity: 24 km/sec</td> <td></td> <td></td> </tr> <tr> <td colspan="6"><i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i></td> </tr> <tr> <td>(2)</td> <td>ALPHA-CEN-B</td> <td>Offset from ALPHA-CEN-A</td> <td></td> <td>V=1.33+/-0.1</td> <td>Offset Position (ALPHA-CEN-B)</td> </tr> <tr> <td></td> <td>Alt Name1: HD128621</td> <td>RA Offset: -0.558 Secs</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR5460</td> <td>Dec Offset: 0.974 Arcsec</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="6"><i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i></td> </tr> </tbody> </table> |                                  |                                    |                          |                               | #             | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (1) | ALPHA-CEN-A | RA: 14 39 29.3800 (219.8724167d) | Proper Motion RA: -3.82 arcsec/yr | V=-0.1+/-0.1 | Reference Frame: ICRS |  | Alt Name1: HD128620 | Dec: -60 49 58.40 (-60.83289d) | Proper Motion Dec: +0.31 arcsec/yr |  |  |  | Alt Name2: HR-5459 | Equinox: J2000 | Parallax: 0.747" |  |  |  |  |  | Epoch of Position: 2013.480 |  |  |  |  |  | Radial Velocity: 24 km/sec |  |  | <i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i> |  |  |  |  |  | (2) | ALPHA-CEN-B | Offset from ALPHA-CEN-A |  | V=1.33+/-0.1 | Offset Position (ALPHA-CEN-B) |  | Alt Name1: HD128621 | RA Offset: -0.558 Secs |  |  |  |  | Alt Name2: HR5460 | Dec Offset: 0.974 Arcsec |  |  |  | <i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i> |  |  |  |  |  |
|   | #   | Name                             | Target Coordinates                 | Targ. Coord. Corrections | Fluxes                        | Miscellaneous |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| (1)   | ALPHA-CEN-A   | RA: 14 39 29.3800 (219.8724167d) | Proper Motion RA: -3.82 arcsec/yr  | V=-0.1+/-0.1             | Reference Frame: ICRS         |               |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | Alt Name1: HD128620   | Dec: -60 49 58.40 (-60.83289d)   | Proper Motion Dec: +0.31 arcsec/yr |                          |                               |               |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | Alt Name2: HR-5459  | Equinox: J2000                   | Parallax: 0.747"                   |                          |                               |               |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   |                                  | Epoch of Position: 2013.480        |                          |                               |               |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   |                                  | Radial Velocity: 24 km/sec         |                          |                               |               |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| <i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i>  |   |                                  |                                    |                          |                               |               |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| (2)   | ALPHA-CEN-B   | Offset from ALPHA-CEN-A          |                                    | V=1.33+/-0.1             | Offset Position (ALPHA-CEN-B) |               |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | Alt Name1: HD128621   | RA Offset: -0.558 Secs           |                                    |                          |                               |               |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | Alt Name2: HR5460   | Dec Offset: 0.974 Arcsec         |                                    |                          |                               |               |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| <i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i> |   |                                  |                                    |                          |                               |               |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |

Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

| #  | Label                       | Target          | Config,Mode,Aperture        | Spectral Els.   | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|--|-----------------------------|-----------------|-----------------------------|-----------------|--------------|---------------|--------|---------------------------------|-------|
| 1  | ACQ_ALP<br>HA-CEN-A         | (1) ALPHA-CEN-A | STIS/CCD, ACQ, F25ND5       | MIRROR          |              |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| 2  | ACQ_ALP<br>HA-CEN-B         | (2) ALPHA-CEN-B | STIS/CCD, ACQ, F25ND5       | MIRROR          |              |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| 3  | ACQPEAK<br>_ALPHA-C<br>EN-B | (2) ALPHA-CEN-B | STIS/CCD, ACQ/PEAK, 52X0.05 | G750M<br>6094 A |              |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| <i>Comments: Setting GAIN=4, which needs to be done within the AVAILABLE mode, is required to avoid saturation for this acquisition.</i> |                             |                 |                             |                 |              |               |        |                                 |       |
| 4  | GO-WAVE<br>CAL              | WAVE            | STIS/CCD, ACCUM, 52X0.2     | G750M<br>6094 A |              |               |        | [==>]                           | [1]   |

Exposures

Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |   |                 |   |   |                        |
|---|---|-----------------|---|---|------------------------|
| 5 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300;<br>WAVECAL=NO | Sequence 5-5 Non-Int in Jul-Aug-2014 (03) | 6 Secs X 50 (300 Secs) |
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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| 6 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 6-6 Non-Int<br>in Jul-Aug-2014 (03) | 6 Secs X 84 (504 Secs) |
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Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| 7 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 7-7 Non-Int<br>in Jul-Aug-2014 (03) | 6 Secs X 84 (504 Secs) |
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Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |                                     |                       |                 |  |  |                        |
|---|-------------------------------------|-----------------------|-----------------|--|--|------------------------|
| 8 | SCI_ALPH (2) ALPHA-CEN-B<br>A-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 8-8 Non-Int<br>in Jul-Aug-2014 (03) | 6 Secs X 84 (504 Secs) |
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Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |   |                 |  |  |                        |
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| 9 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 9-9 Non-Int<br>in Jul-Aug-2014 (03) | 6 Secs X 75 (450 Secs) |
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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                                     |                       |                 |   |            |  |                        |
|----|-------------------------------------|-----------------------|-----------------|---|------------|--|------------------------|
| 10 | SCI_ALPH (2) ALPHA-CEN-B<br>A-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300;<br>WAVECAL=NO | NEW OBSSET | Sequence 10-10 Non<br>-Int in Jul-Aug-2014<br>(03) | 6 Secs X 80 (480 Secs) |
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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                     |                 |                       |                 |  |  |                        |  |
|----|---------------------|-----------------|-----------------------|-----------------|--|--|------------------------|--|
| 11 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 11-11 Non<br>-Int in Jul-Aug-2014<br>(03) | 6 Secs X 85 (510 Secs) |  |
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Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                     |                 |                       |                 |  |  |                        |  |
|----|---------------------|-----------------|-----------------------|-----------------|--|--|------------------------|--|
| 12 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 12-12 Non<br>-Int in Jul-Aug-2014<br>(03) | 6 Secs X 85 (510 Secs) |  |
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Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                     |                 |                       |                 |  |  |                        |  |
|----|---------------------|-----------------|-----------------------|-----------------|--|--|------------------------|--|
| 13 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 13-13 Non<br>-Int in Jul-Aug-2014<br>(03) | 6 Secs X 80 (480 Secs) |  |
|----|---------------------|-----------------|-----------------------|-----------------|--|--|------------------------|--|

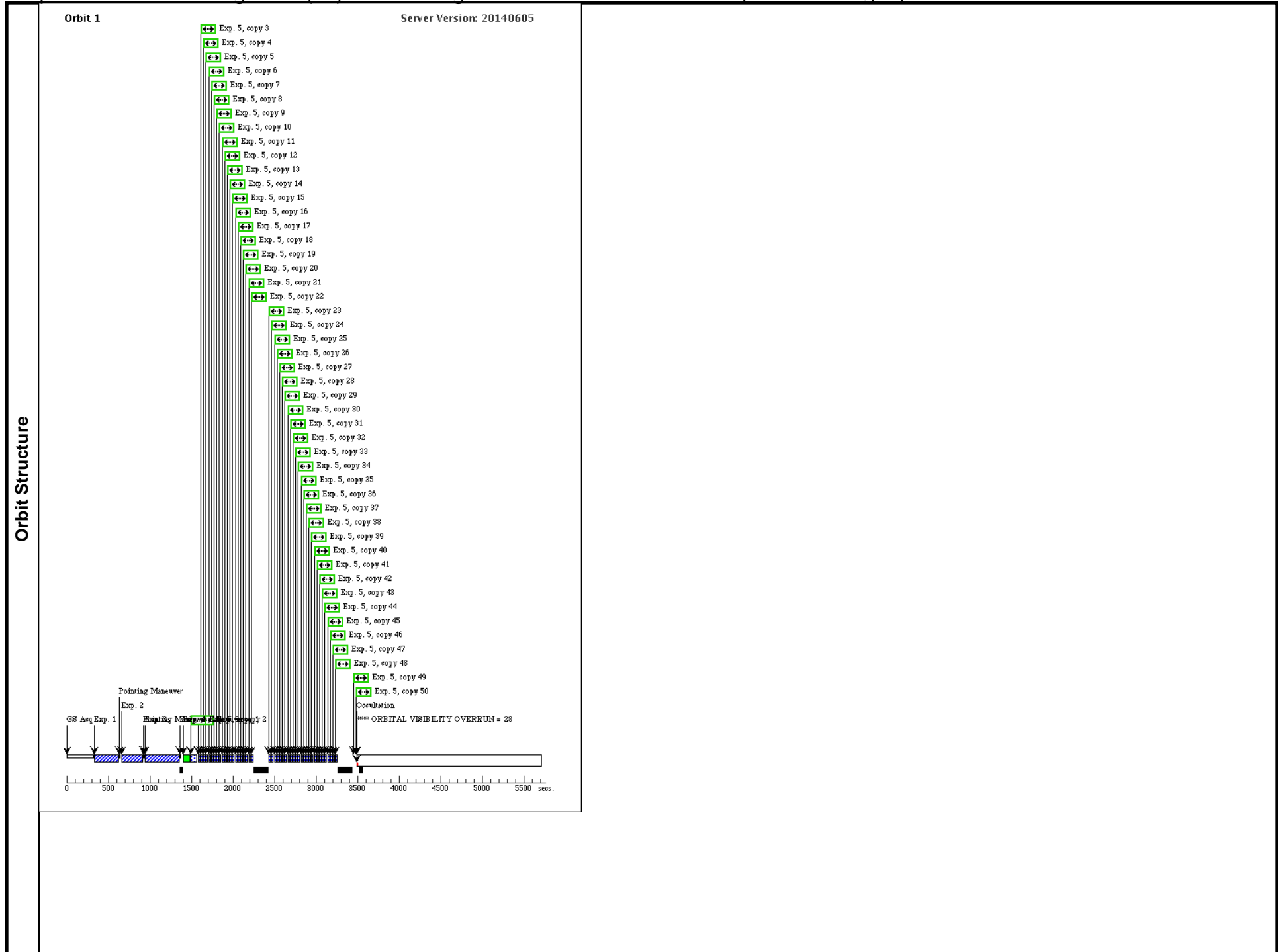
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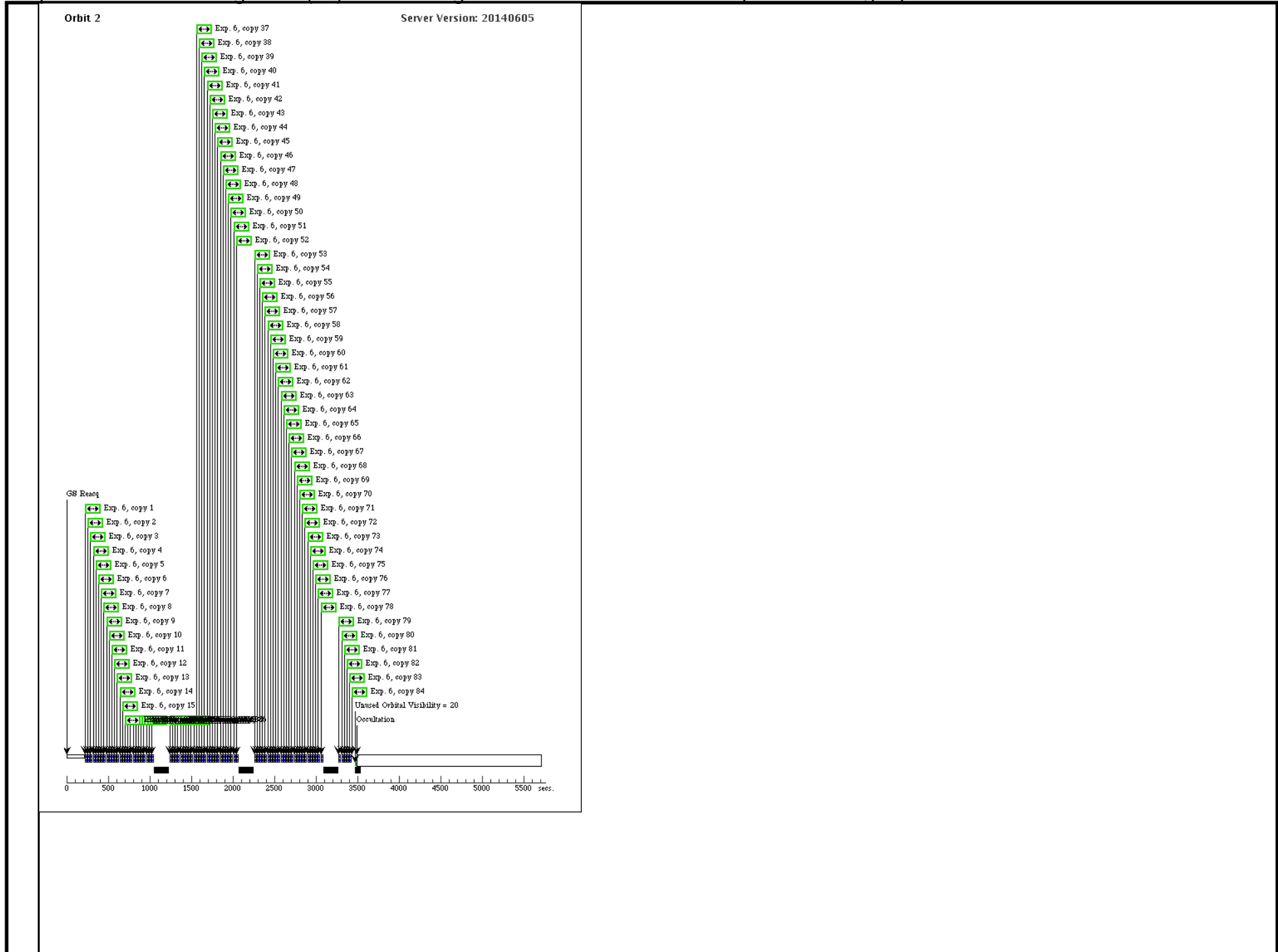
Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i> |                     |                         |                 |                |     |
| 14  | GO-WAVE WAVE<br>CAL | STIS/CCD, ACCUM, 52X0.2 | G750M<br>6094 A | [==>]          | [9] |

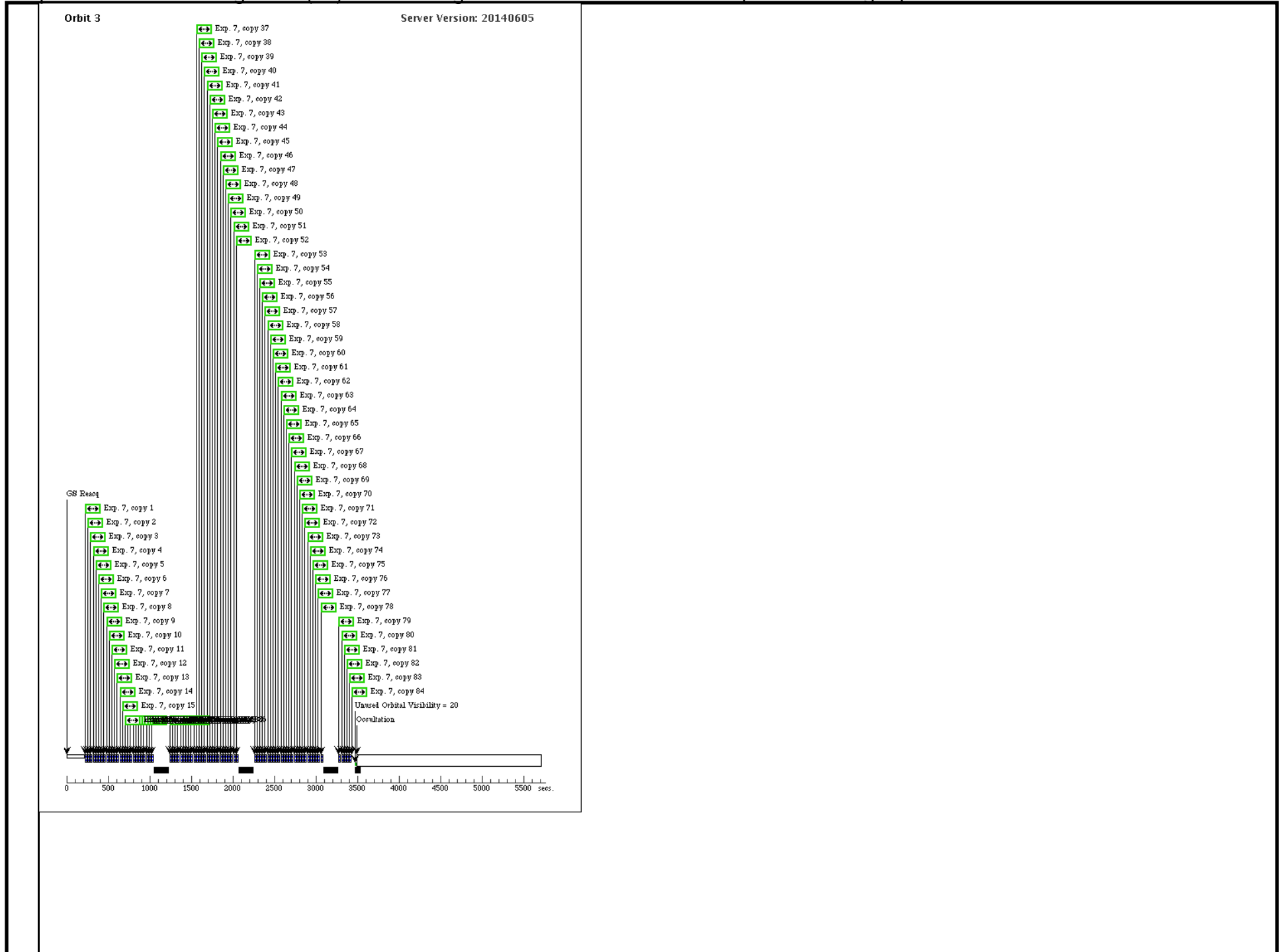
Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



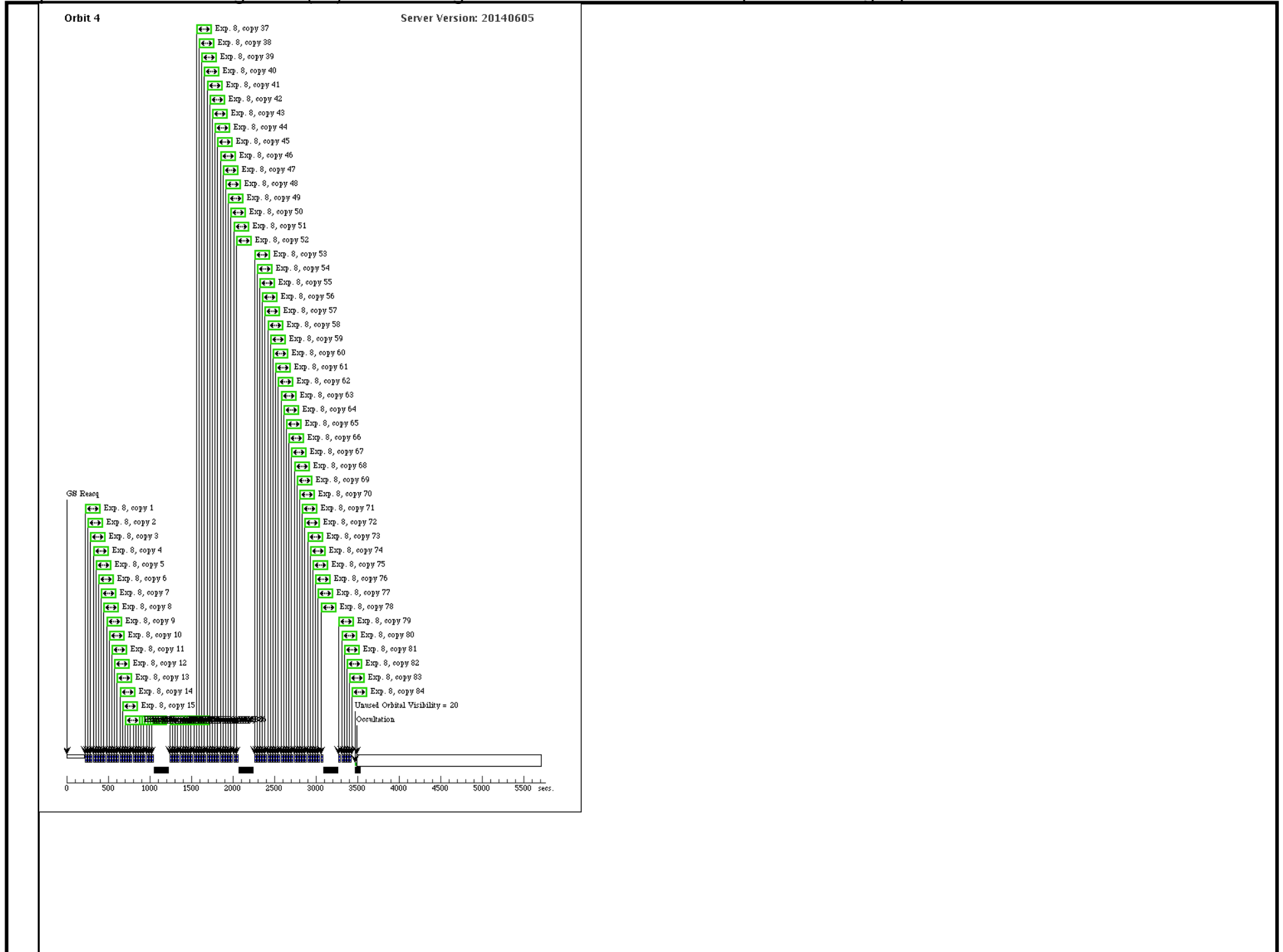
Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



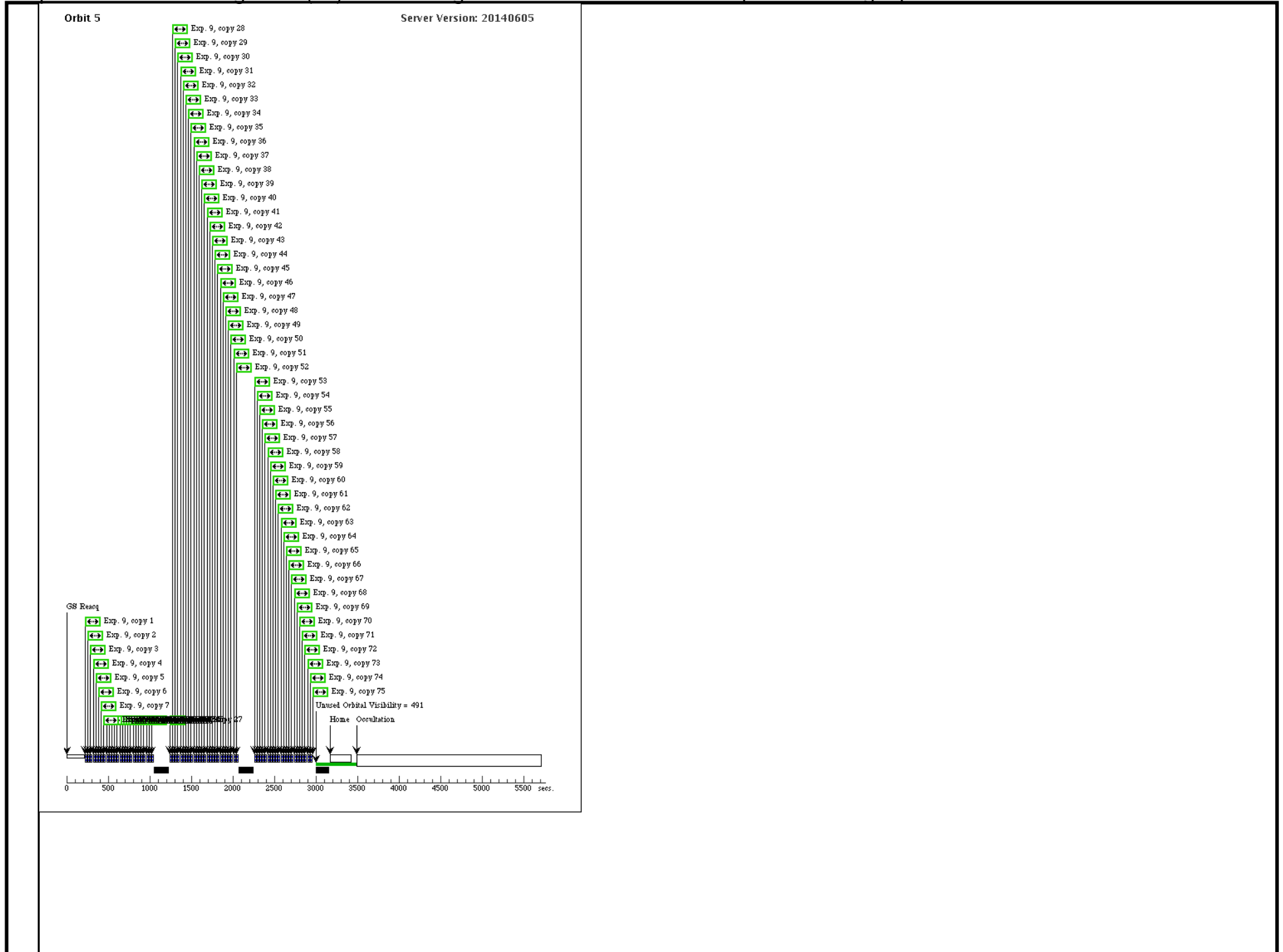
# Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



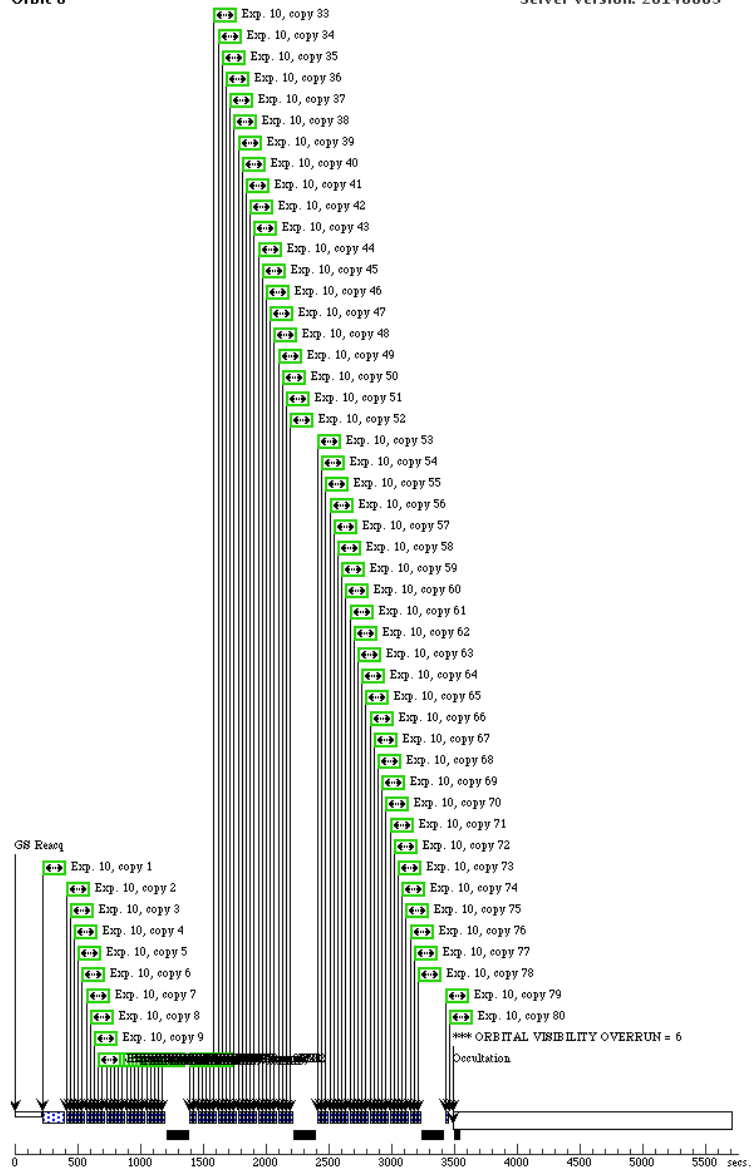
# Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



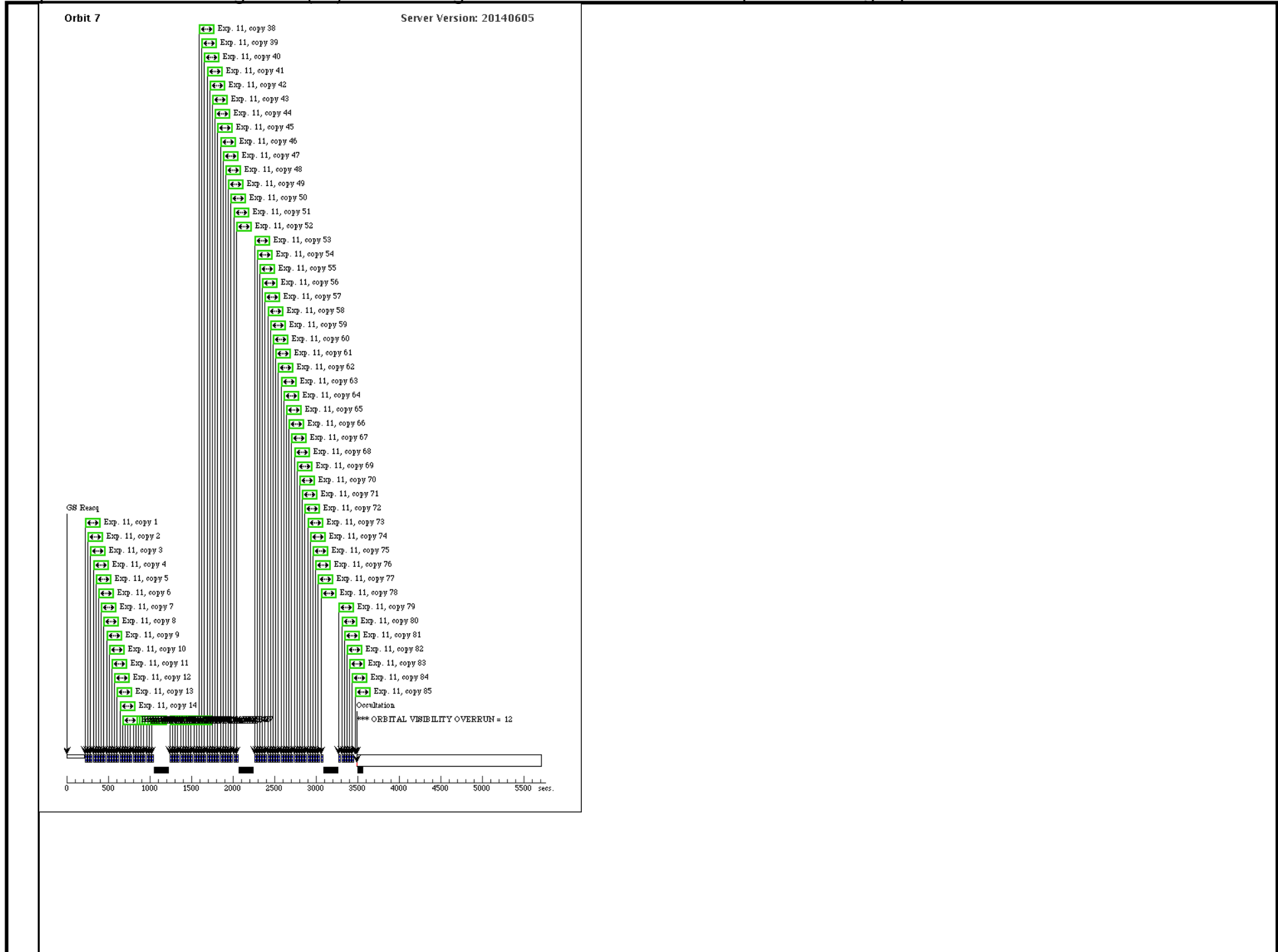
Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

Orbit 6

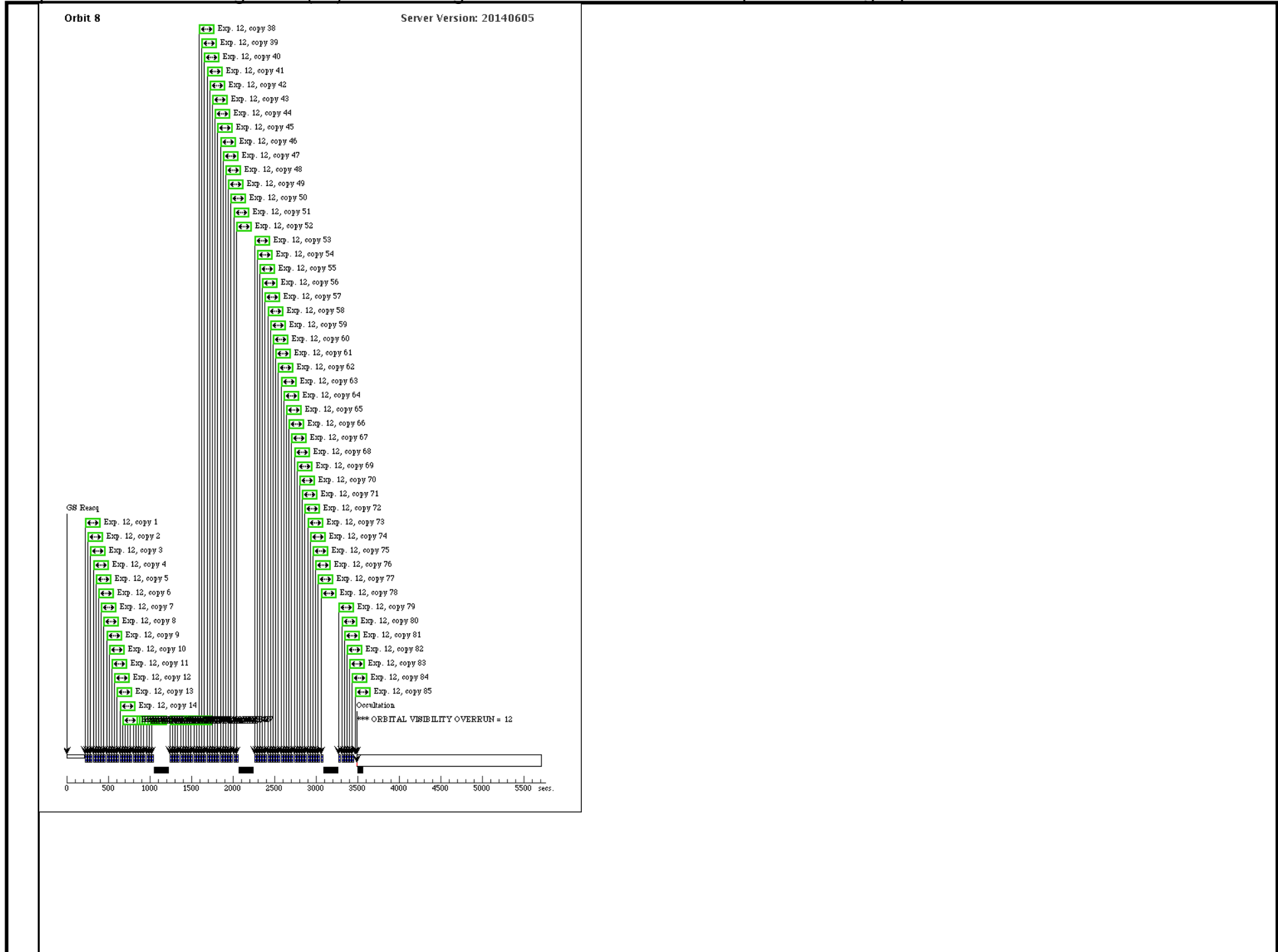
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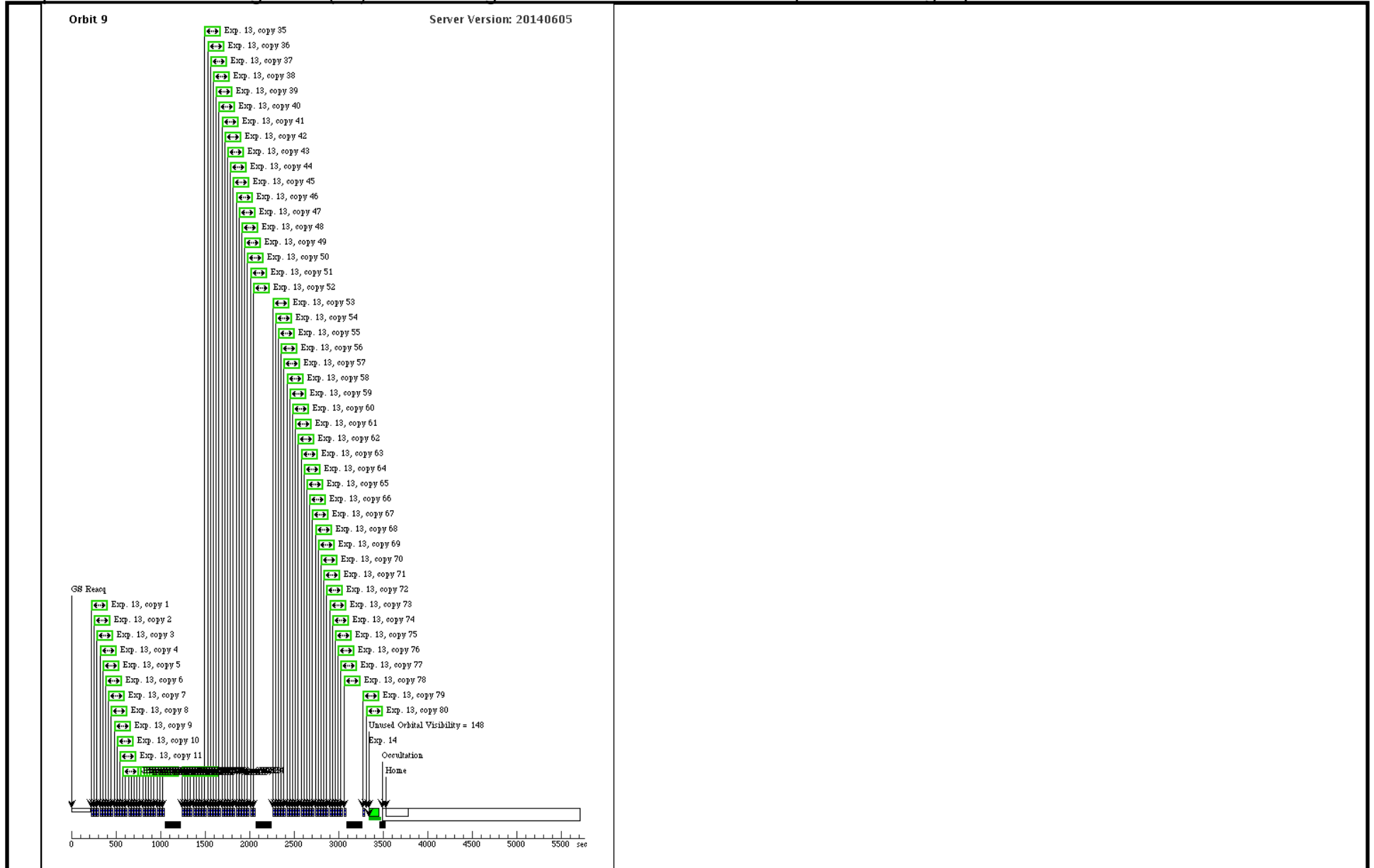
Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (03) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

| <b>Visit</b>   | <b>Proposal 13927, Jul-Aug-2014 (02), withdrawn</b> <span style="float: right;">Fri Jul 18 01:36:18 GMT 2014</span><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: STIS/CCD<br>Special Requirements: ORIENT 57D TO 75 D; BETWEEN 28-JUL-2014:11:39:00 AND 29-JUL-2014:01:09:00; BETWEEN 31-JUL-2014:17:19:00 AND 01-AUG-2014:06:49:00; BETWEEN 03-AUG-2014:22:59:00 AND 04-AUG-2014:12:29:00; BETWEEN 07-AUG-2014:04:38:00 AND 07-AUG-2014:18:08:00<br><i>Comments: Preferred ORIENT is 75, but opening up the range to check on guide stars and other windows not available at 75 degrees.</i>  |                                  |                                    |                          |                               |               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|--|---|----------------------------------|------------------------------------|--------------------------|-------------------------------|---------------|---------------|-----|-------------|----------------------------------|-----------------------------------|--------------|-----------------------|--|---------------------|--------------------------------|------------------------------------|--|--|--|--------------------|----------------|------------------|--|--|--|--|--|-----------------------------|--|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|-----|-------------|-------------------------|--|--------------|-------------------------------|--|---------------------|------------------------|--|--|--|--|-------------------|--------------------------|--|--|--|---|--|--|--|--|--|
|  | <b>Diagnosics</b><br>(Jul-Aug-2014 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Jul-Aug-2014 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Jul-Aug-2014 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Jul-Aug-2014 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Jul-Aug-2014 (02)) Warning (Orbit Planner): LONG SU LIKELY TO INTERSECT THE SAA<br>(Jul-Aug-2014 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Jul-Aug-2014 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Jul-Aug-2014 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN<br>(Jul-Aug-2014 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN   |                                  |                                    |                          |                               |               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| <b>Fixed Targets</b>   | <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>(1)</td> <td>ALPHA-CEN-A</td> <td>RA: 14 39 29.3800 (219.8724167d)</td> <td>Proper Motion RA: -3.82 arcsec/yr</td> <td>V=-0.1+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: HD128620</td> <td>Dec: -60 49 58.40 (-60.83289d)</td> <td>Proper Motion Dec: +0.31 arcsec/yr</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR-5459</td> <td>Equinox: J2000</td> <td>Parallax: 0.747"</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2013.480</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Radial Velocity: 24 km/sec</td> <td></td> <td></td> </tr> <tr> <td colspan="6"><i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i></td> </tr> <tr> <td>(2)</td> <td>ALPHA-CEN-B</td> <td>Offset from ALPHA-CEN-A</td> <td></td> <td>V=1.33+/-0.1</td> <td>Offset Position (ALPHA-CEN-B)</td> </tr> <tr> <td></td> <td>Alt Name1: HD128621</td> <td>RA Offset: -0.558 Secs</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR5460</td> <td>Dec Offset: 0.974 Arcsec</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="6"><i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i></td> </tr> </tbody> </table> | #                                | Name                               | Target Coordinates       | Targ. Coord. Corrections      | Fluxes        | Miscellaneous | (1) | ALPHA-CEN-A | RA: 14 39 29.3800 (219.8724167d) | Proper Motion RA: -3.82 arcsec/yr | V=-0.1+/-0.1 | Reference Frame: ICRS |  | Alt Name1: HD128620 | Dec: -60 49 58.40 (-60.83289d) | Proper Motion Dec: +0.31 arcsec/yr |  |  |  | Alt Name2: HR-5459 | Equinox: J2000 | Parallax: 0.747" |  |  |  |  |  | Epoch of Position: 2013.480 |  |  |  |  |  | Radial Velocity: 24 km/sec |  |  | <i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i> |  |  |  |  |  | (2) | ALPHA-CEN-B | Offset from ALPHA-CEN-A |  | V=1.33+/-0.1 | Offset Position (ALPHA-CEN-B) |  | Alt Name1: HD128621 | RA Offset: -0.558 Secs |  |  |  |  | Alt Name2: HR5460 | Dec Offset: 0.974 Arcsec |  |  |  | <i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i> |  |  |  |  |  |
|  | #   | Name                             | Target Coordinates                 | Targ. Coord. Corrections | Fluxes                        | Miscellaneous |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| (1)  | ALPHA-CEN-A   | RA: 14 39 29.3800 (219.8724167d) | Proper Motion RA: -3.82 arcsec/yr  | V=-0.1+/-0.1             | Reference Frame: ICRS         |               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|  | Alt Name1: HD128620   | Dec: -60 49 58.40 (-60.83289d)   | Proper Motion Dec: +0.31 arcsec/yr |                          |                               |               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|  | Alt Name2: HR-5459  | Equinox: J2000                   | Parallax: 0.747"                   |                          |                               |               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|  |   |                                  | Epoch of Position: 2013.480        |                          |                               |               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|  |   |                                  | Radial Velocity: 24 km/sec         |                          |                               |               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| <i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i>   |   |                                  |                                    |                          |                               |               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| (2)  | ALPHA-CEN-B   | Offset from ALPHA-CEN-A          |                                    | V=1.33+/-0.1             | Offset Position (ALPHA-CEN-B) |               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|  | Alt Name1: HD128621   | RA Offset: -0.558 Secs           |                                    |                          |                               |               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|  | Alt Name2: HR5460   | Dec Offset: 0.974 Arcsec         |                                    |                          |                               |               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| <i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i>  |   |                                  |                                    |                          |                               |               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| (2) ALPHA-CEN-B      Offset from ALPHA-CEN-A      V=1.33+/-0.1      Offset Position (ALPHA-CEN-B)<br>Alt Name1: HD128621      RA Offset: -0.558 Secs<br>Alt Name2: HR5460      Dec Offset: 0.974 Arcsec<br><i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i> |   |                                  |                                    |                          |                               |               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |

Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

| #  | Label                         | Target          | Config,Mode,Aperture        | Spectral Els.   | Opt. Params.  | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|--|-------------------------------|-----------------|-----------------------------|-----------------|---|---------------|--------|---------------------------------|-------|
| 1  | ACQ_ALP<br>HA-CEN-A           | (1) ALPHA-CEN-A | STIS/CCD, ACQ, F25ND5       | MIRROR          |   |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| 2  | ACQPEAK<br>_ALPHA-C<br>EN-B   | (2) ALPHA-CEN-B | STIS/CCD, ACQ/PEAK, 52X0.05 | G750M<br>6094 A |   |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| <i>Comments: Setting GAIN=4, which needs to be done within the AVAILABLE mode, is required to avoid saturation for this acquisition.</i> |                               |                 |                             |                 |   |               |        |                                 |       |
| 3  | GO-WAVE<br>CAL                | WAVE            | STIS/CCD, ACCUM, 52X0.2     | G750M<br>6094 A |   |               |        | [==>]                           | [1]   |
| 4  | SCI_ALPH<br>A-CEN-B_S<br>HORT | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2       | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300;<br>WAVECAL=NO |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| <i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i>                                |                               |                 |                             |                 |   |               |        |                                 |       |

Exposures

Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |   |                 |   |   |                        |
|---|---|-----------------|---|---|------------------------|
| 5 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300;<br>WAVECAL=NO | Sequence 5-5 Non-Int in Jul-Aug-2014 (02) | 6 Secs X 55 (330 Secs) |
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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |   |                 |  |  |                         |
|---|---|-----------------|--|--|-------------------------|
| 6 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 6-6 Non-Int<br>in Jul-Aug-2014 (0<br>2) | 6 Secs X 110 (660 Secs) |
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Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |                                     |                       |                 |  |           |  |                        |
|---|-------------------------------------|-----------------------|-----------------|--|-----------|--|------------------------|
| 7 | SCI_ALPH (2) ALPHA-CEN-B<br>A-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | NEW OBSET | Sequence 7-7 Non-Int<br>in Jul-Aug-2014 (02) | 6 Secs X 90 (540 Secs) |
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Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |   |                 |  |  |                        |
|---|---|-----------------|--|--|------------------------|
| 8 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 8-8 Non-Int<br>in Jul-Aug-2014 (0<br>2) | 6 Secs X 90 (540 Secs) |
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Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |   |                 |  |  |                        |
|---|---|-----------------|--|--|------------------------|
| 9 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 9-9 Non-Int<br>in Jul-Aug-2014 (02) | 6 Secs X 90 (540 Secs) |
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Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

|    |         |      |                         |        |
|----|---------|------|-------------------------|--------|
| 10 | GO-WAVE | WAVE | STIS/CCD, ACCUM, 52X0.2 | G750M  |
|    | CAL     |      |                         | 6094 A |

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Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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|----|---|-----------------|---|--|-------------------------|
| 11 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300;<br>WAVECAL=NO | Sequence 11-11 Non<br>-Int in Jul-Aug-2014<br>(02) | 6 Secs X 110 (660 Secs) |
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Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <p><i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i></p> |   |  |            |
| 12   | <p>GO-WAVE WAVE STIS/CCD, ACCUM, 52X0.2 G750M<br/>                 CAL 6094 A</p> | <p>[==&gt;]</p>  | <p>[6]</p> |

Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                     |                 |                       |                 |  |           |  |                         |  |
|----|---------------------|-----------------|-----------------------|-----------------|--|-----------|--|-------------------------|--|
| 13 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | NEW OBSET | Sequence 13-13 Non<br>-Int in Jul-Aug-2014<br>(02) | 6 Secs X 120 (720 Secs) |  |
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Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i> |   |     |
| 14 GO-WAVE WAVE STIS/CCD, ACCUM, 52X0.2 G750M<br>CAL 6094 A   | [==>]   | [7] |

Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                     |                 |                       |                 |  |  |                         |  |
|----|---------------------|-----------------|-----------------------|-----------------|--|--|-------------------------|--|
| 15 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 15-15 Non<br>-Int in Jul-Aug-2014<br>(02) | 6 Secs X 115 (690 Secs) |  |
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Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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|  | <p>[==&gt;(Copy 91)]<br/>                 [==&gt;(Copy 92)]<br/>                 [==&gt;(Copy 93)]<br/>                 [==&gt;(Copy 94)]<br/>                 [==&gt;(Copy 95)]<br/>                 [==&gt;(Copy 96)]<br/>                 [==&gt;(Copy 97)]<br/>                 [==&gt;(Copy 98)]<br/>                 [==&gt;(Copy 99)]<br/>                 [==&gt;(Copy 100)]<br/>                 [==&gt;(Copy 101)]<br/>                 [==&gt;(Copy 102)]<br/>                 [==&gt;(Copy 103)]<br/>                 [==&gt;(Copy 104)]<br/>                 [==&gt;(Copy 105)]<br/>                 [==&gt;(Copy 106)]<br/>                 [==&gt;(Copy 107)]<br/>                 [==&gt;(Copy 108)]<br/>                 [==&gt;(Copy 109)]<br/>                 [==&gt;(Copy 110)]<br/>                 [==&gt;(Copy 111)]<br/>                 [==&gt;(Copy 112)]<br/>                 [==&gt;(Copy 113)]<br/>                 [==&gt;(Copy 114)]<br/>                 [==&gt;(Copy 115)]</p> |            |
| <p><i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i></p> |  |            |
| <p>16 GO-WAVE WAVE STIS/CCD, ACCUM, 52X0.2 G750M<br/>                 CAL 6094 A</p>                             | <p>[==&gt;]</p>  | <p>[8]</p> |

Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                     |                 |                       |                 |  |  |                         |  |
|----|---------------------|-----------------|-----------------------|-----------------|--|--|-------------------------|--|
| 17 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 17-17 Non<br>-Int in Jul-Aug-2014<br>(02) | 6 Secs X 104 (624 Secs) |  |
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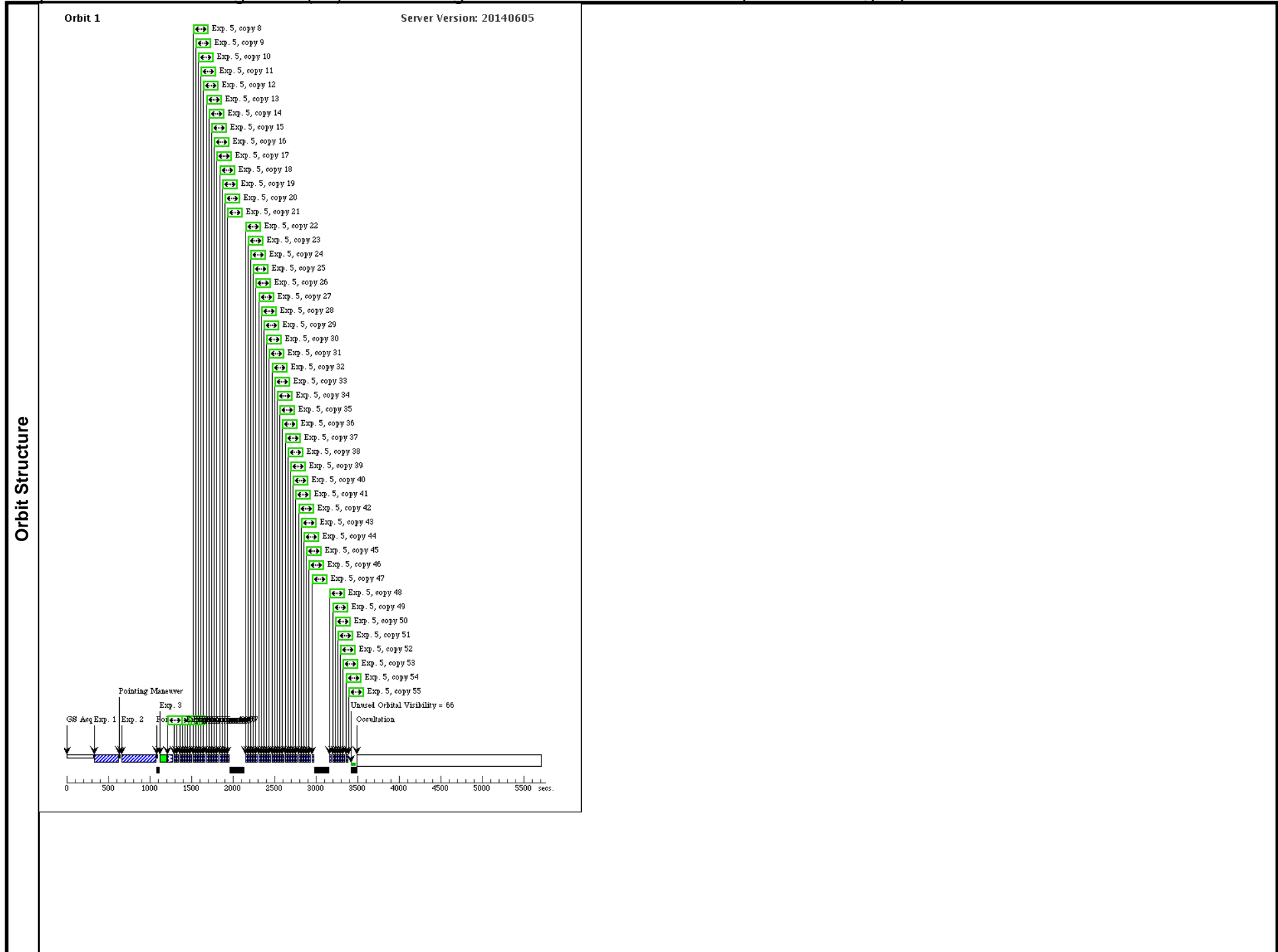
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Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i> |         |      |                         |        |  |   |     |
| 18  | GO-WAVE | WAVE | STIS/CCD, ACCUM, 52X0.2 | G750M  |  | [==>]   | [9] |
|   | CAL     |      |                         | 6094 A |  |   |     |

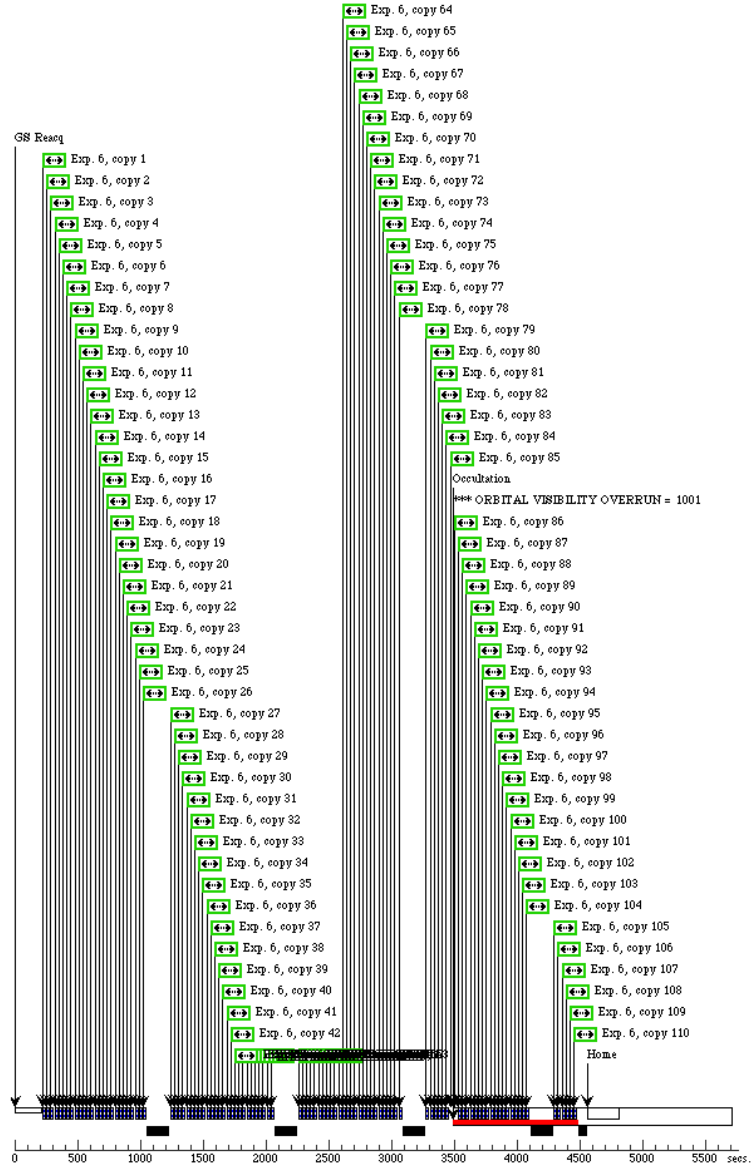
Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



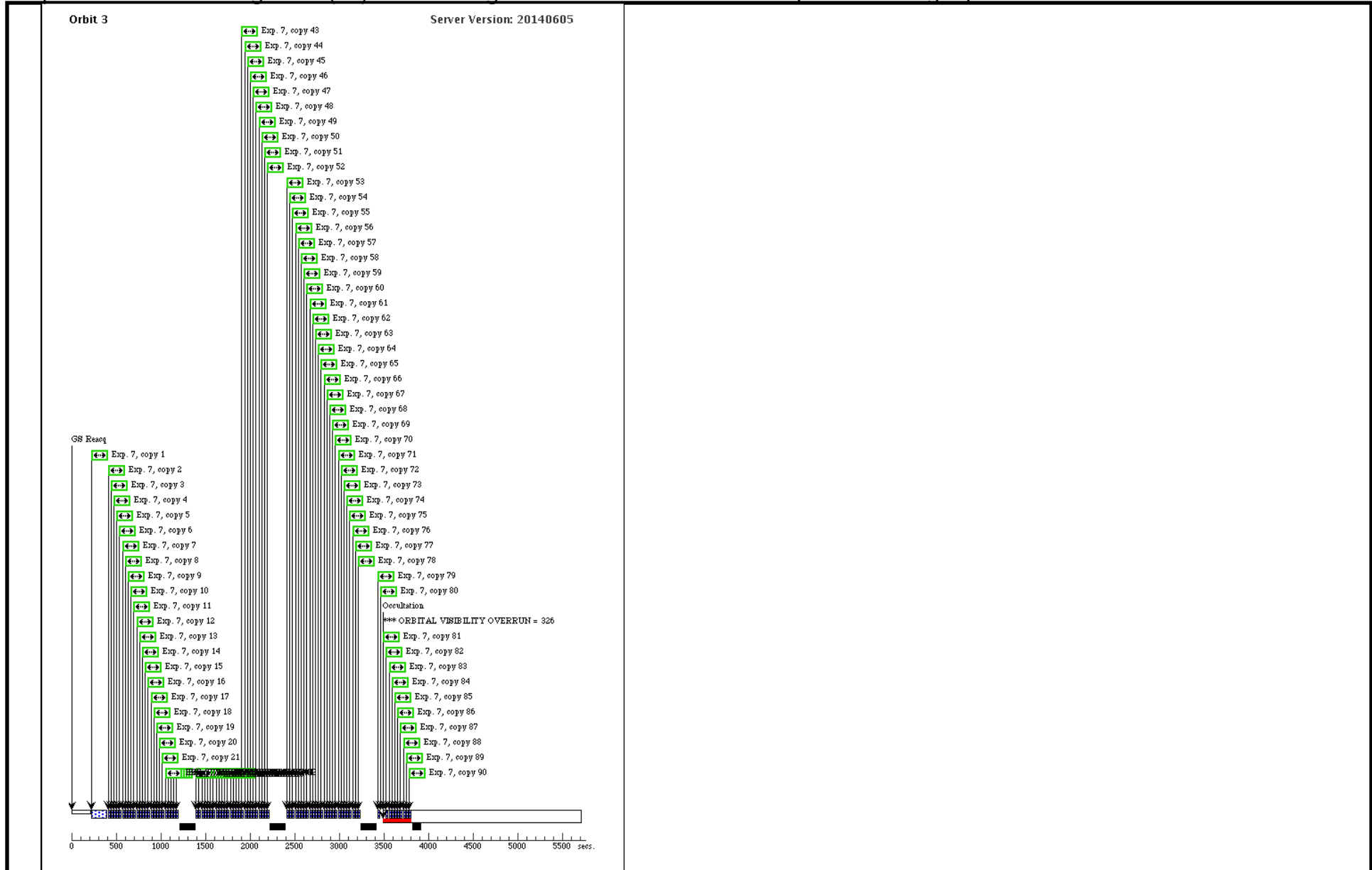
# Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

Orbit 2

Server Version: 20140605



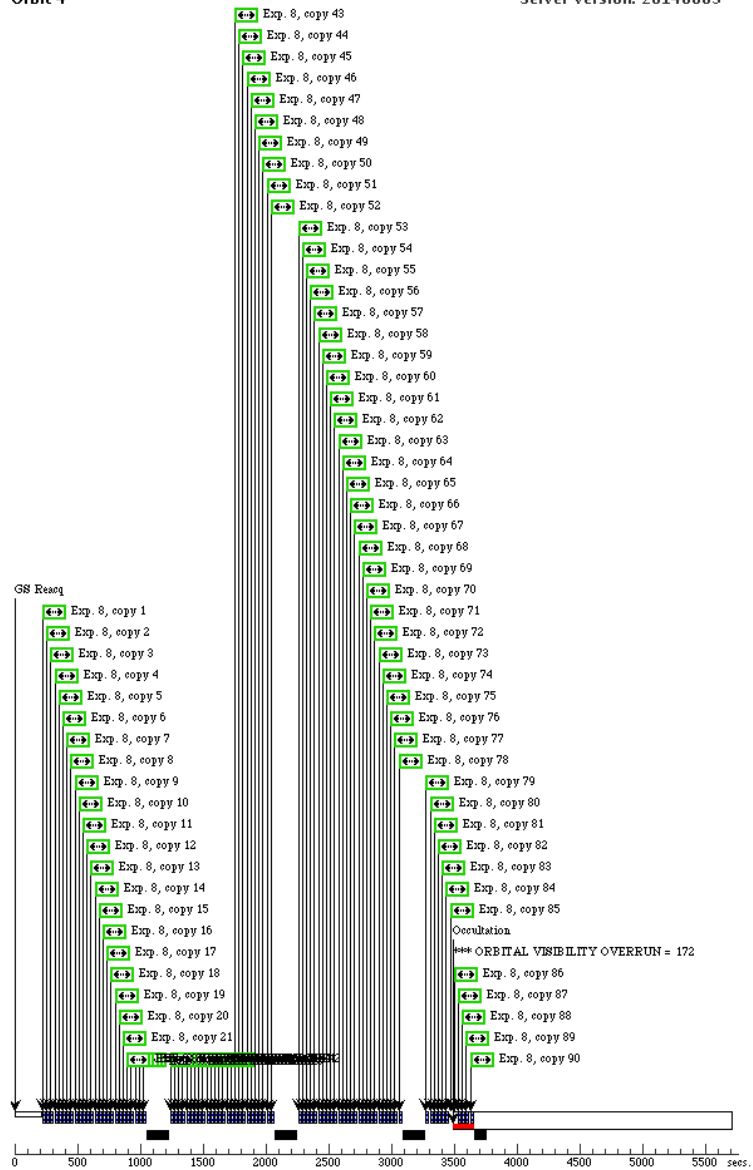
Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



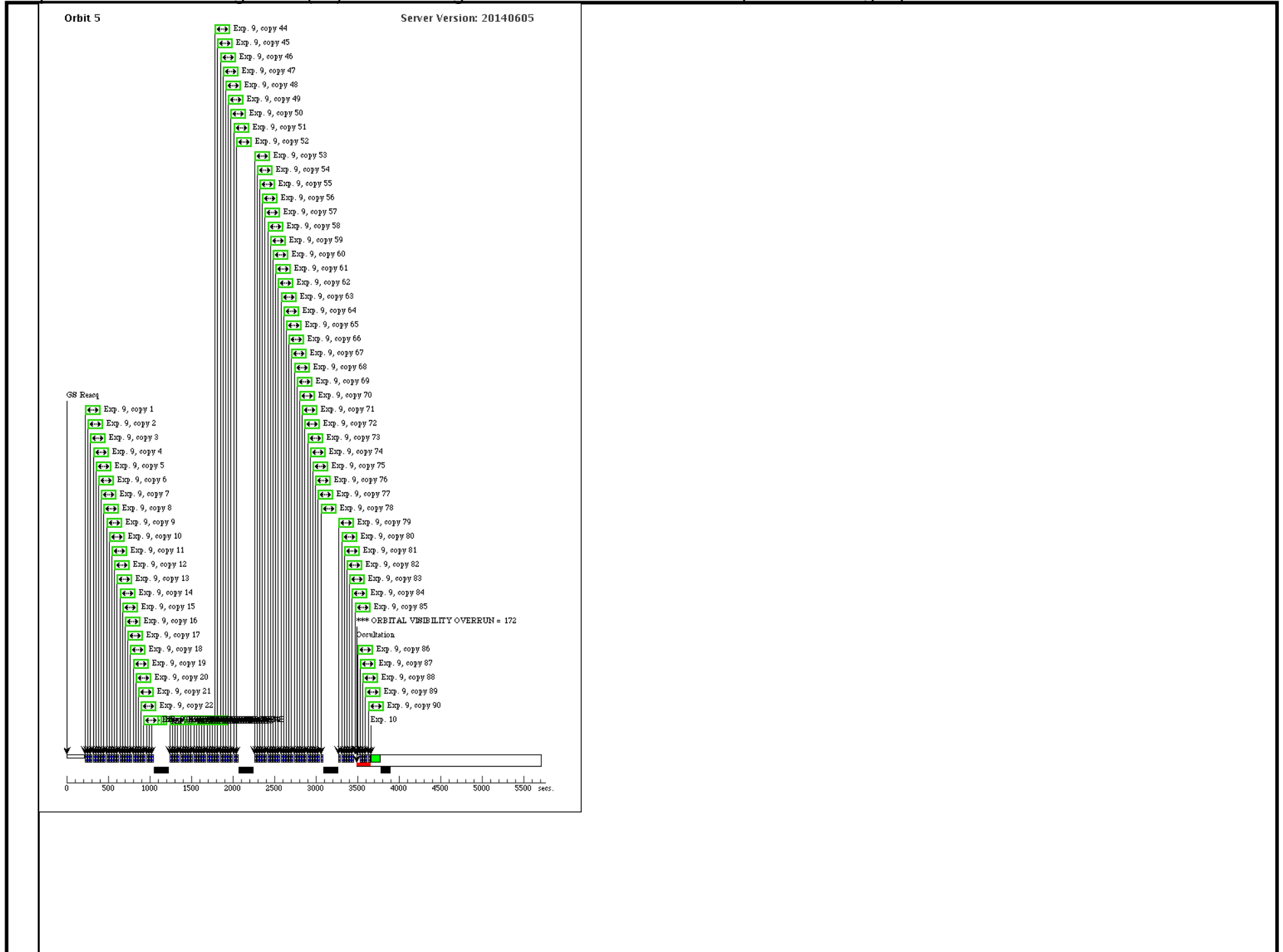
Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

Orbit 4

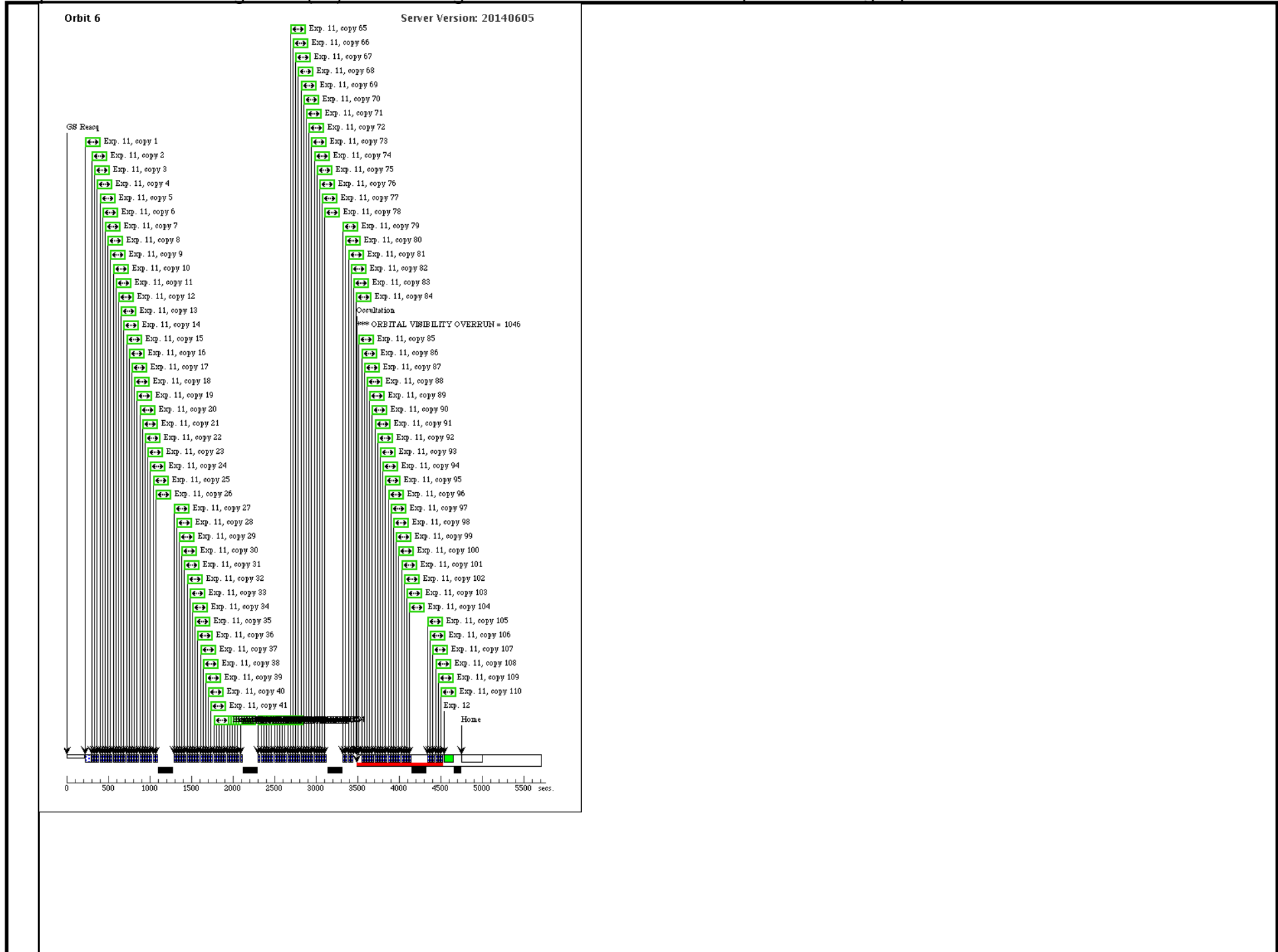
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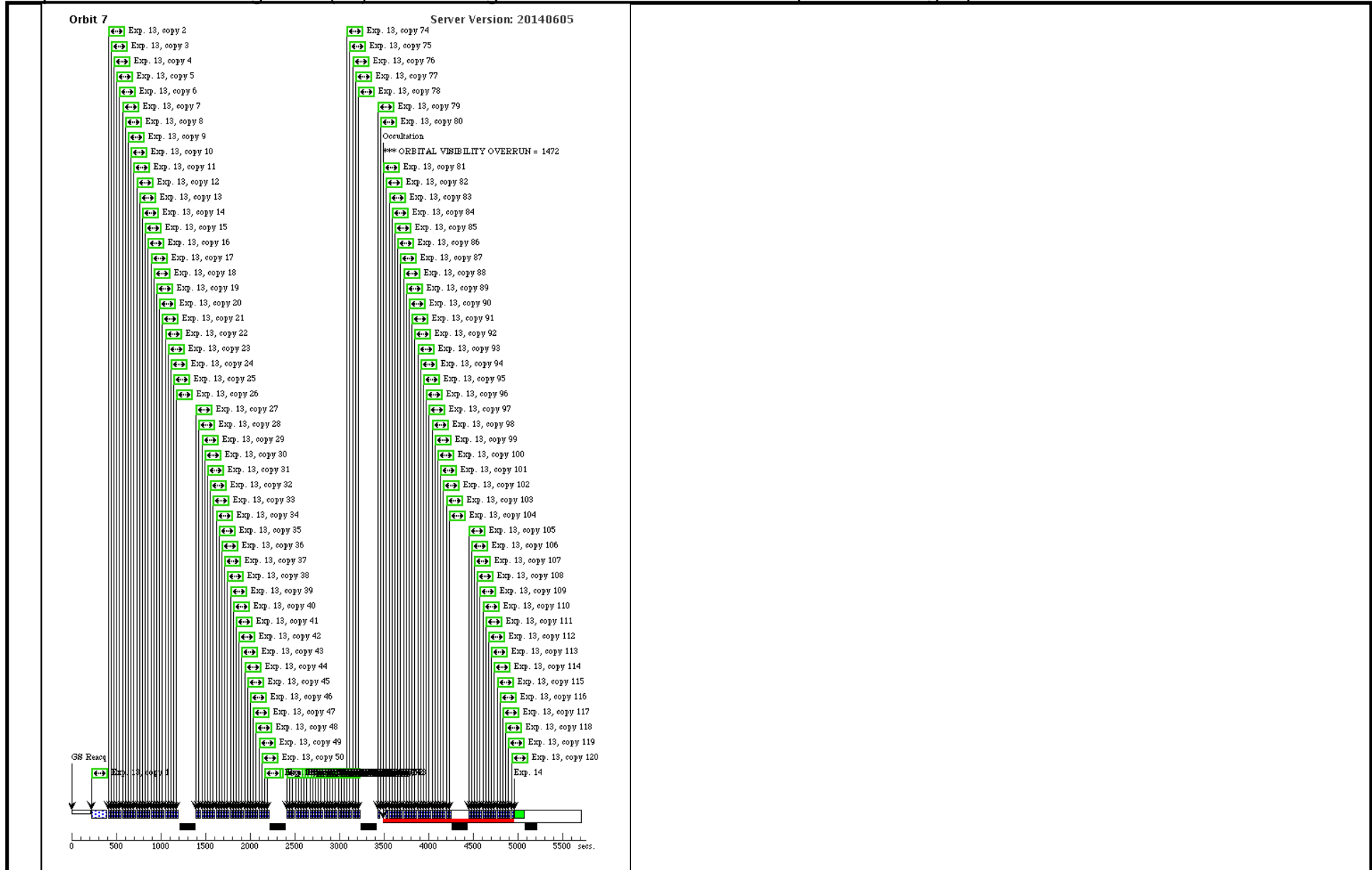
# Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

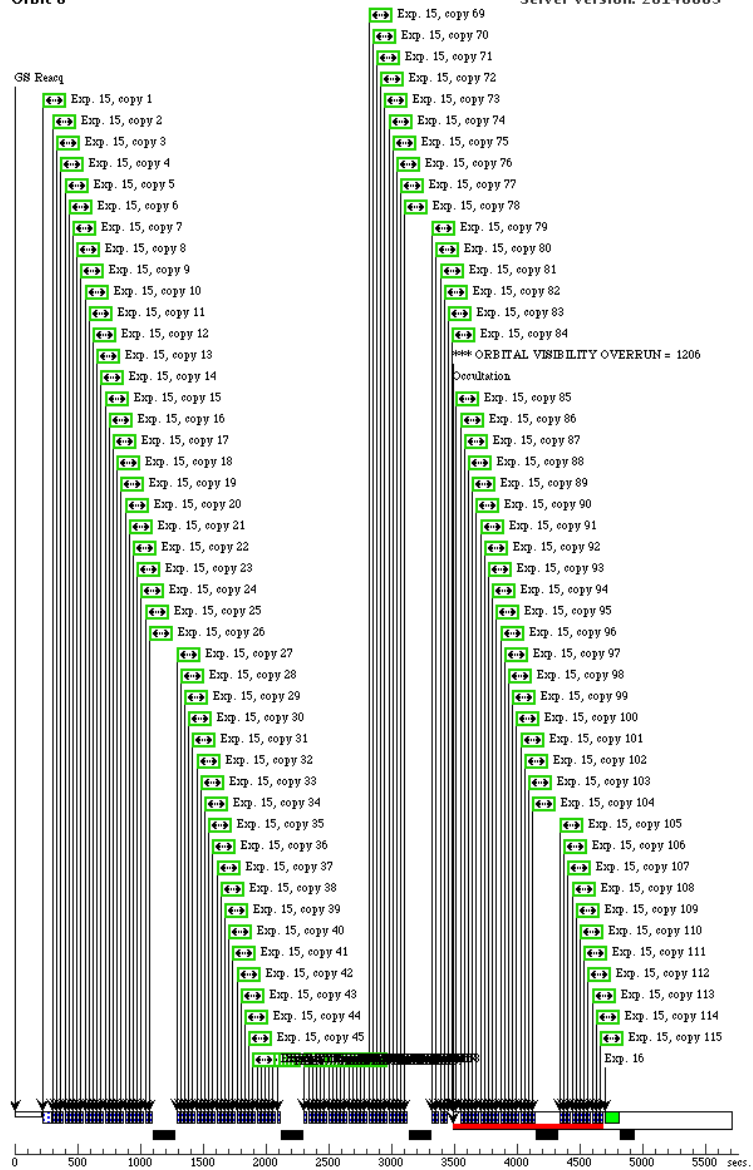


Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

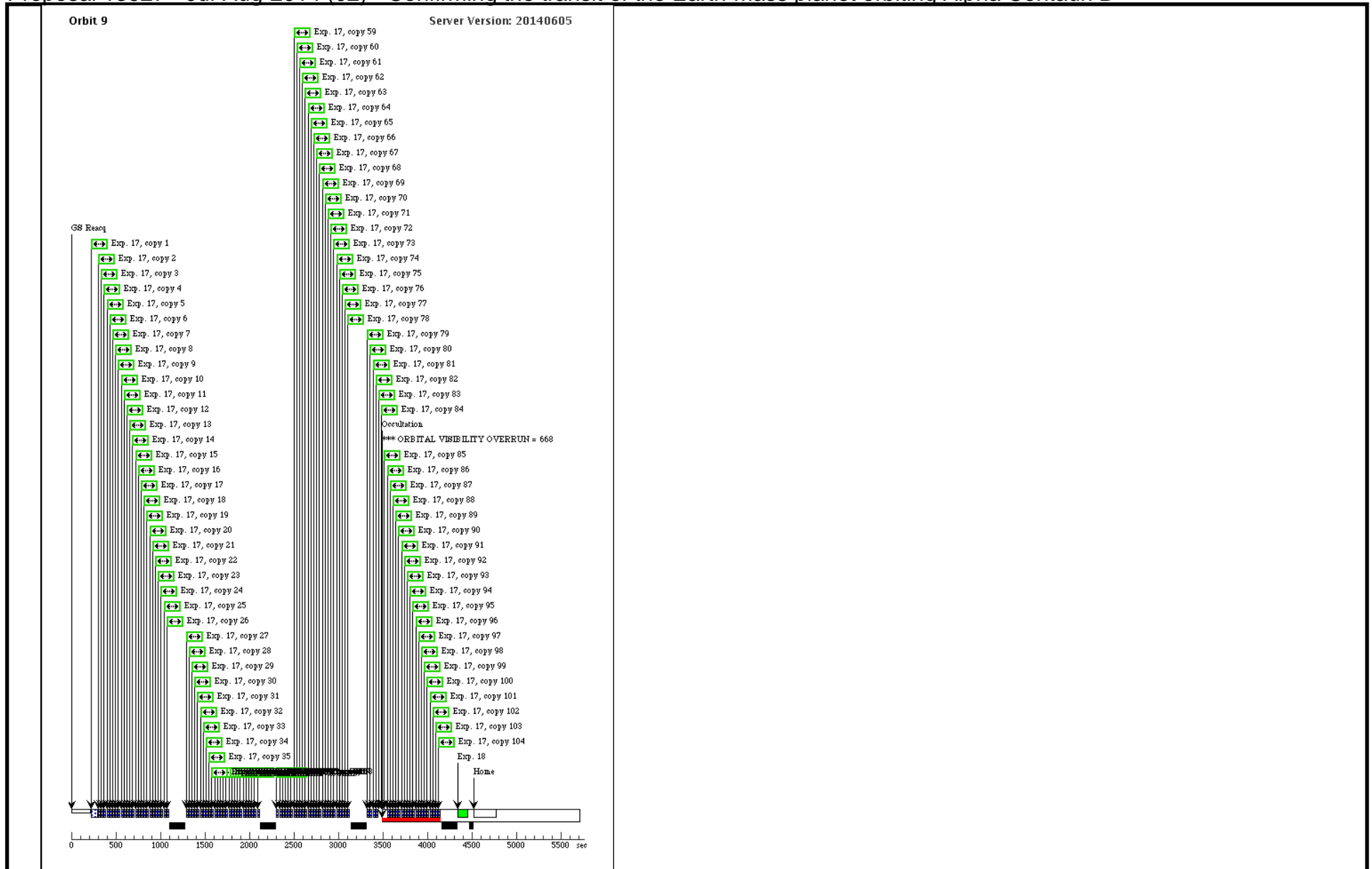
Orbit 8

Server Version: 20140605

GS Req



Proposal 13927 - Jul-Aug-2014 (02) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

| <b>Visit</b>  | <p><b>Proposal 13927, Jul-Aug-2014 (04), withdrawn</b> <span style="float: right;">Fri Jul 18 01:36:21 GMT 2014</span></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: ORIENT 57D TO 75 D; BETWEEN 28-JUL-2014:11:10:00 AND 29-JUL-2014:01:09:00; BETWEEN 31-JUL-2014:17:19:00 AND 01-AUG-2014:06:49:00; BETWEEN 03-AUG-2014:22:59:00 AND 04-AUG-2014:12:29:00; BETWEEN 07-AUG-2014:04:38:00 AND 07-AUG-2014:18:08:00</p> <p><i>Comments: Preferred ORIENT is 75, but opening up the range to check on guide stars and other windows not available at 75 degrees.</i></p> |   |                        |                                  |                                    |                          |                               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|---|---|---|------------------------|----------------------------------|------------------------------------|--------------------------|-------------------------------|---------------|-----|-------------|----------------------------------|-----------------------------------|--------------|-----------------------|--|---------------------|--------------------------------|------------------------------------|--|--|--|--------------------|----------------|------------------|--|--|--|--|--|-----------------------------|--|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|-----|-------------|-------------------------|--|--------------|-------------------------------|--|---------------------|------------------------|--|--|--|--|-------------------|--------------------------|--|--|--|---|--|--|--|--|--|
|   | <b>Diagnostics</b>  | <p>(Jul-Aug-2014 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (04)) Warning (Orbit Planner): EXPOSURE NOT IN REQUESTED ORBIT</p> <p>(Jul-Aug-2014 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (04)) Warning (Orbit Planner): LONG SU LIKELY TO INTERSECT THE SAA</p>  |                        |                                  |                                    |                          |                               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| <b>Fixed Targets</b>  |   | <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>(1)</td> <td>ALPHA-CEN-A</td> <td>RA: 14 39 29.3800 (219.8724167d)</td> <td>Proper Motion RA: -3.82 arcsec/yr</td> <td>V=-0.1+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: HD128620</td> <td>Dec: -60 49 58.40 (-60.83289d)</td> <td>Proper Motion Dec: +0.31 arcsec/yr</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR-5459</td> <td>Equinox: J2000</td> <td>Parallax: 0.747"</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2013.480</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Radial Velocity: 24 km/sec</td> <td></td> <td></td> </tr> <tr> <td colspan="6"><i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i></td> </tr> <tr> <td>(2)</td> <td>ALPHA-CEN-B</td> <td>Offset from ALPHA-CEN-A</td> <td></td> <td>V=1.33+/-0.1</td> <td>Offset Position (ALPHA-CEN-B)</td> </tr> <tr> <td></td> <td>Alt Name1: HD128621</td> <td>RA Offset: -0.558 Secs</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR5460</td> <td>Dec Offset: 0.974 Arcsec</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="6"><i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i></td> </tr> </tbody> </table> | #                      | Name                             | Target Coordinates                 | Targ. Coord. Corrections | Fluxes                        | Miscellaneous | (1) | ALPHA-CEN-A | RA: 14 39 29.3800 (219.8724167d) | Proper Motion RA: -3.82 arcsec/yr | V=-0.1+/-0.1 | Reference Frame: ICRS |  | Alt Name1: HD128620 | Dec: -60 49 58.40 (-60.83289d) | Proper Motion Dec: +0.31 arcsec/yr |  |  |  | Alt Name2: HR-5459 | Equinox: J2000 | Parallax: 0.747" |  |  |  |  |  | Epoch of Position: 2013.480 |  |  |  |  |  | Radial Velocity: 24 km/sec |  |  | <i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i> |  |  |  |  |  | (2) | ALPHA-CEN-B | Offset from ALPHA-CEN-A |  | V=1.33+/-0.1 | Offset Position (ALPHA-CEN-B) |  | Alt Name1: HD128621 | RA Offset: -0.558 Secs |  |  |  |  | Alt Name2: HR5460 | Dec Offset: 0.974 Arcsec |  |  |  | <i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i> |  |  |  |  |  |
|   |   | #   | Name                   | Target Coordinates               | Targ. Coord. Corrections           | Fluxes                   | Miscellaneous                 |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   | (1)   | ALPHA-CEN-A            | RA: 14 39 29.3800 (219.8724167d) | Proper Motion RA: -3.82 arcsec/yr  | V=-0.1+/-0.1             | Reference Frame: ICRS         |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   |   | Alt Name1: HD128620    | Dec: -60 49 58.40 (-60.83289d)   | Proper Motion Dec: +0.31 arcsec/yr |                          |                               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   |   | Alt Name2: HR-5459     | Equinox: J2000                   | Parallax: 0.747"                   |                          |                               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   |   |                        |                                  | Epoch of Position: 2013.480        |                          |                               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   |   |                        |                                  | Radial Velocity: 24 km/sec         |                          |                               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   | <i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i>  |                        |                                  |                                    |                          |                               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   | (2)   | ALPHA-CEN-B            | Offset from ALPHA-CEN-A          |                                    | V=1.33+/-0.1             | Offset Position (ALPHA-CEN-B) |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   | Alt Name1: HD128621   | RA Offset: -0.558 Secs |                                  |                                    |                          |                               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | Alt Name2: HR5460   | Dec Offset: 0.974 Arcsec  |                        |                                  |                                    |                          |                               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| <i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i> |   |   |                        |                                  |                                    |                          |                               |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |

Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

| #  | Label                         | Target          | Config,Mode,Aperture        | Spectral Els.   | Opt. Params.  | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|--|-------------------------------|-----------------|-----------------------------|-----------------|---|---------------|--------|---------------------------------|-------|
| 1  | ACQ_ALP<br>HA-CEN-A           | (1) ALPHA-CEN-A | STIS/CCD, ACQ, F25ND5       | MIRROR          |   |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| 2  | ACQPEAK<br>_ALPHA-C<br>EN-B   | (2) ALPHA-CEN-B | STIS/CCD, ACQ/PEAK, 52X0.05 | G750M<br>6094 A |   |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| <i>Comments: Setting GAIN=4, which needs to be done within the AVAILABLE mode, is required to avoid saturation for this acquisition.</i> |                               |                 |                             |                 |   |               |        |                                 |       |
| 3  | GO-WAVE<br>CAL                | WAVE            | STIS/CCD, ACCUM, 52X0.2     | G750M<br>6094 A |   |               |        | [==>]                           | [1]   |
| 4  | SCI_ALPH<br>A-CEN-B_S<br>HORT | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2       | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300;<br>WAVECAL=NO |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| <i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i>                                |                               |                 |                             |                 |   |               |        |                                 |       |

Exposures

Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |   |                 |   |  |                        |
|---|---|-----------------|---|--|------------------------|
| 5 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300;<br>WAVECAL=NO | Sequence 5-5 Non-Int<br>in Jul-Aug-2014 (04) | 6 Secs X 80 (480 Secs) |
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Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| 6 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 6-6 Non-Int<br>in Jul-Aug-2014 (04) | 6 Secs X 115 (690 Secs) |  |
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Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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|---|-------------------------------------|-----------------------|-----------------|--|-----------|--|-------------------------|
| 7 | SCI_ALPH (2) ALPHA-CEN-B<br>A-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | NEW OBSET | Sequence 7-7 Non-Int<br>in Jul-Aug-2014 (04) | 6 Secs X 135 (810 Secs) |
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Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |   |                 |  |  |                         |
|---|---|-----------------|--|--|-------------------------|
| 8 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 8-8 Non-Int<br>in Jul-Aug-2014 (04) | 6 Secs X 135 (810 Secs) |
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Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

|   |                     |                         |                 |
|---|---------------------|-------------------------|-----------------|
| 9 | GO-WAVE WAVE<br>CAL | STIS/CCD, ACCUM, 52X0.2 | G750M<br>6094 A |
|---|---------------------|-------------------------|-----------------|

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Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                     |                 |                       |                 |  |  |                         |  |
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| 10 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 10-10 Non<br>-Int in Jul-Aug-2014<br>(04) | 6 Secs X 110 (660 Secs) |  |
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Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <p><i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i></p> |  |            |
| <p>11 GO-WAVE WAVE STIS/CCD, ACCUM, 52X0.2 G750M<br/>                 CAL 6094 A</p>                             | <p>[==&gt;]</p>  | <p>[5]</p> |

Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                                     |                       |                 |   |           |  |                         |
|----|-------------------------------------|-----------------------|-----------------|---|-----------|--|-------------------------|
| 12 | SCI_ALPH (2) ALPHA-CEN-B<br>A-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300;<br>WAVECAL=NO | NEW OBSET | Sequence 12-12 Non<br>-Int in Jul-Aug-2014<br>(04) | 6 Secs X 120 (720 Secs) |
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Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i> |   |     |
| 13 GO-WAVE WAVE STIS/CCD, ACCUM, 52X0.2 G750M<br>CAL 6094 A   | [==>]   | [6] |

Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                     |                 |                       |                 |  |  |                         |  |
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| 14 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 14-14 Non<br>-Int in Jul-Aug-2014<br>(04) | 6 Secs X 115 (690 Secs) |  |
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Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <p><i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i></p> |  |            |
| <p>15 GO-WAVE WAVE STIS/CCD, ACCUM, 52X0.2 G750M<br/>                 CAL 6094 A</p>                             | <p>[==&gt;]</p>  | <p>[7]</p> |

Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                     |                 |                       |                 |  |  |                         |  |
|----|---------------------|-----------------|-----------------------|-----------------|--|--|-------------------------|--|
| 16 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 16-16 Non<br>-Int in Jul-Aug-2014<br>(04) | 6 Secs X 105 (630 Secs) |  |
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Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <p><i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i></p> |  |            |
| <p>17 GO-WAVE WAVE STIS/CCD, ACCUM, 52X0.2 G750M<br/>                 CAL 6094 A</p>                             | <p>[==&gt;]</p>  | <p>[8]</p> |

Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                                     |                       |                 |  |           |  |                        |
|----|-------------------------------------|-----------------------|-----------------|--|-----------|--|------------------------|
| 18 | SCI_ALPH (2) ALPHA-CEN-B<br>A-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | NEW OBSET | Sequence 18-18 Non<br>-Int in Jul-Aug-2014<br>(04) | 6 Secs X 90 (540 Secs) |
|----|-------------------------------------|-----------------------|-----------------|--|-----------|--|------------------------|

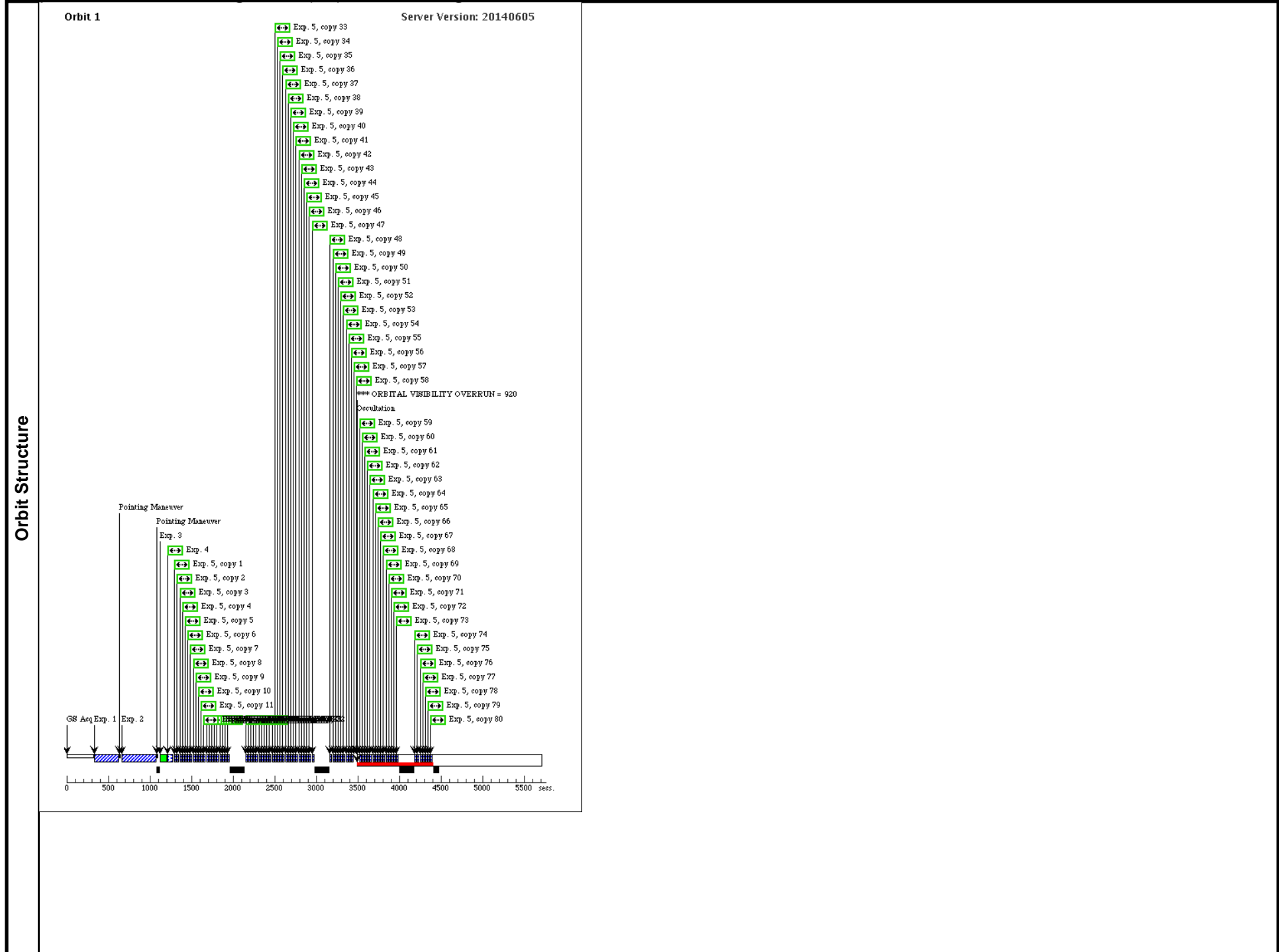
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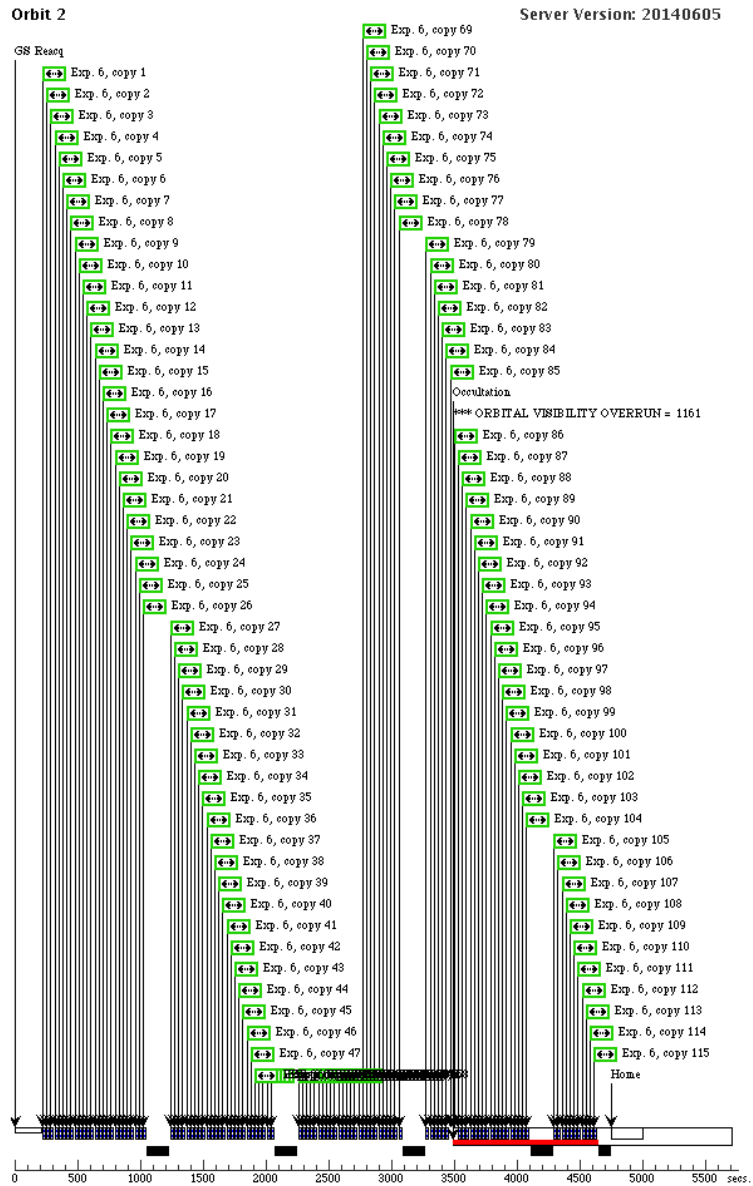
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Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i> |         |      |                         |       |
| 19  | GO-WAVE | WAVE | STIS/CCD, ACCUM, 52X0.2 | G750M |
|   | CAL     |      | 6094 A                  |       |
|   |         |      |                         | [==>] |
|   |         |      |                         | [9]   |



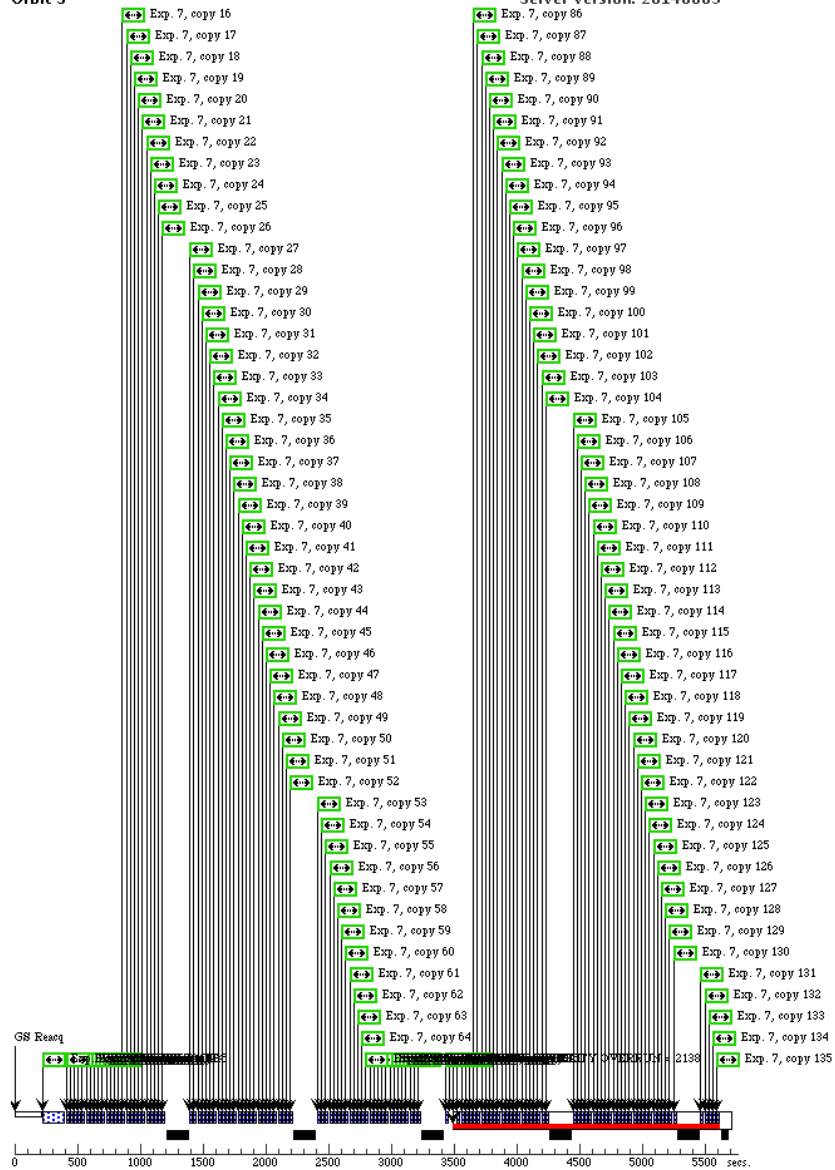
Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



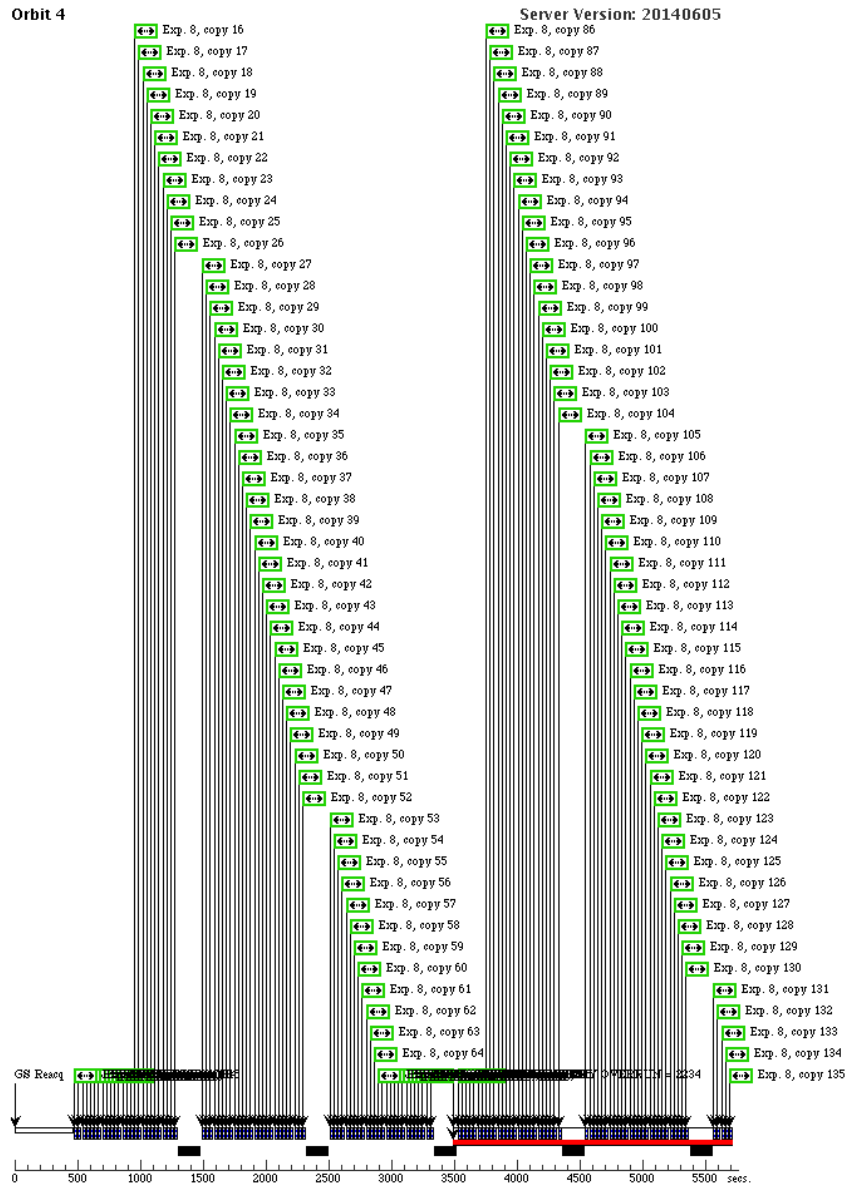
Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

Orbit 3

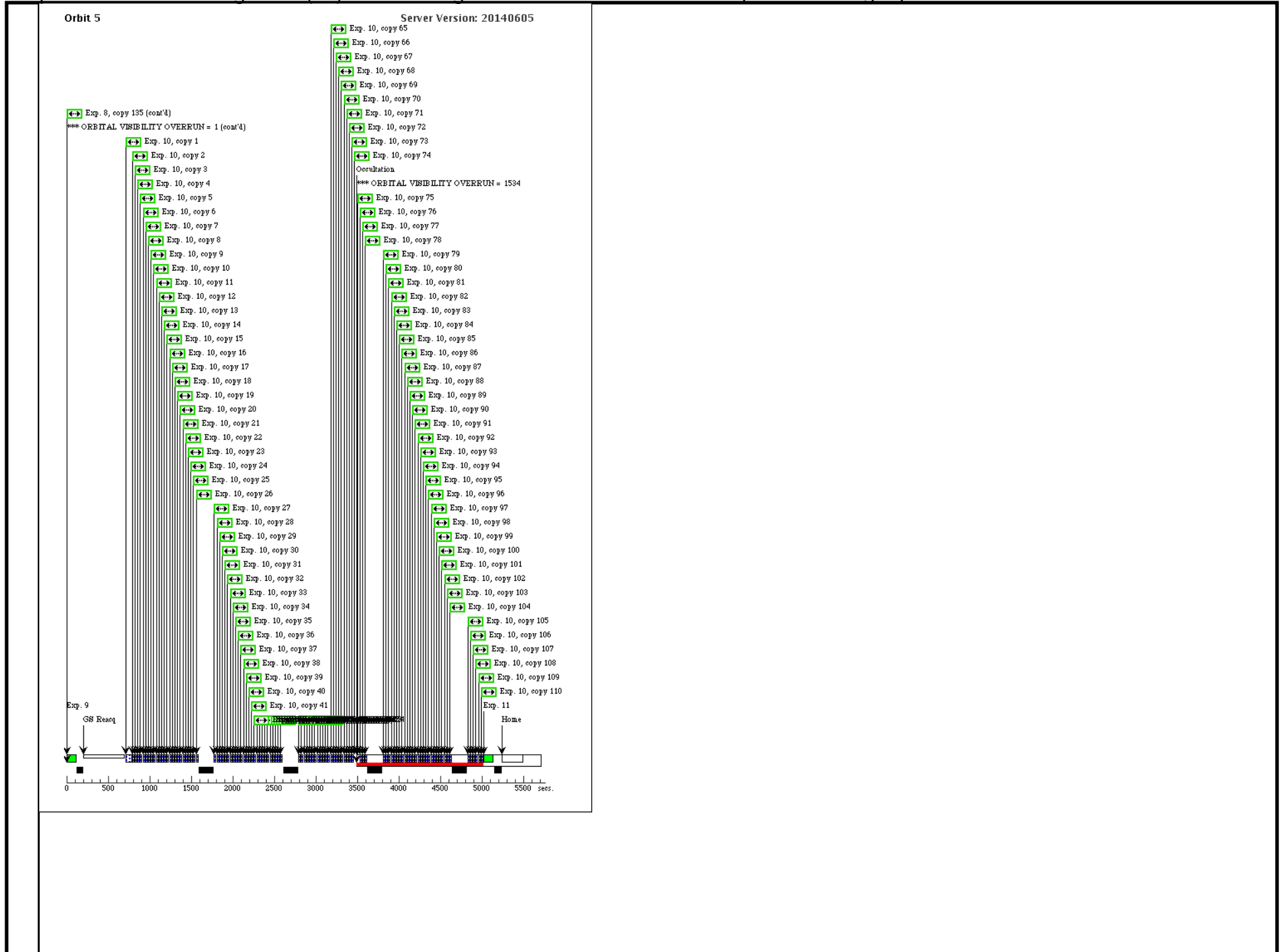
Server Version: 20140605



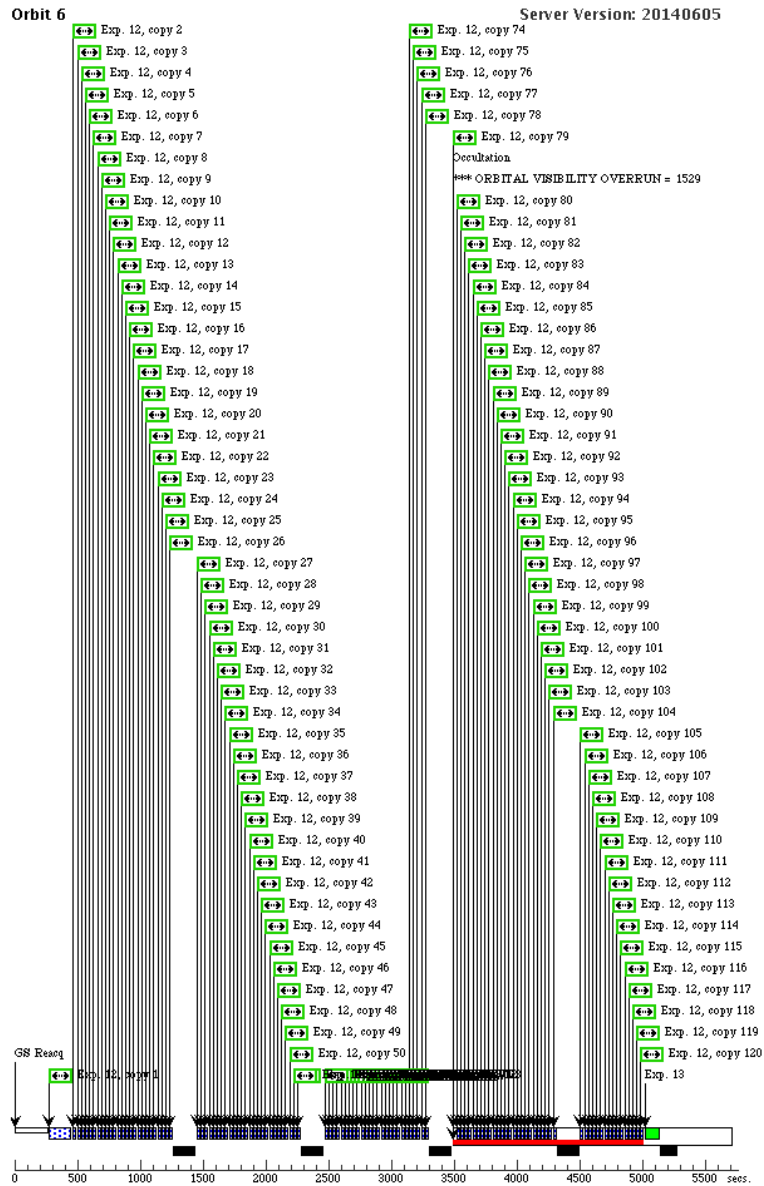
Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

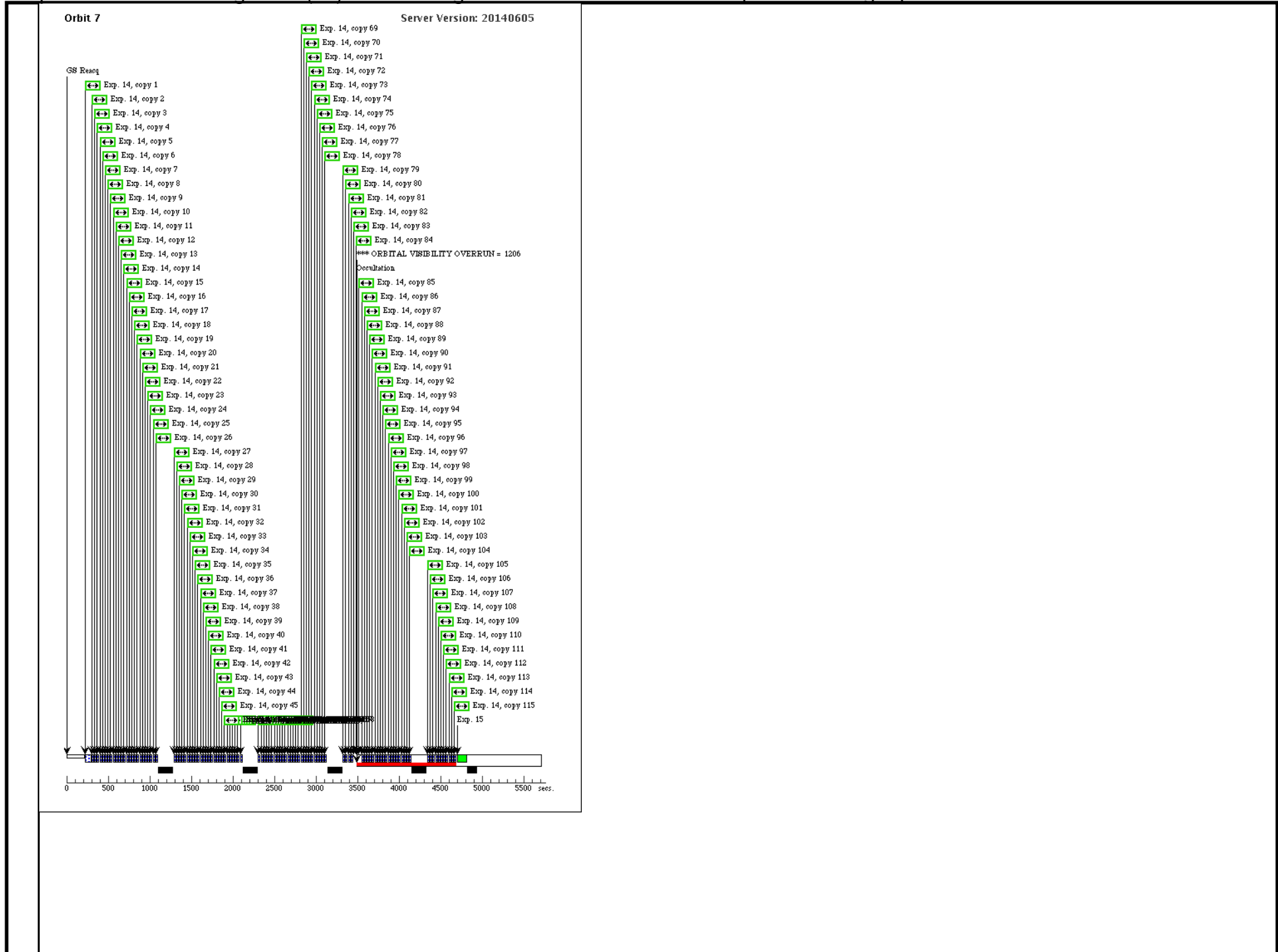


Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

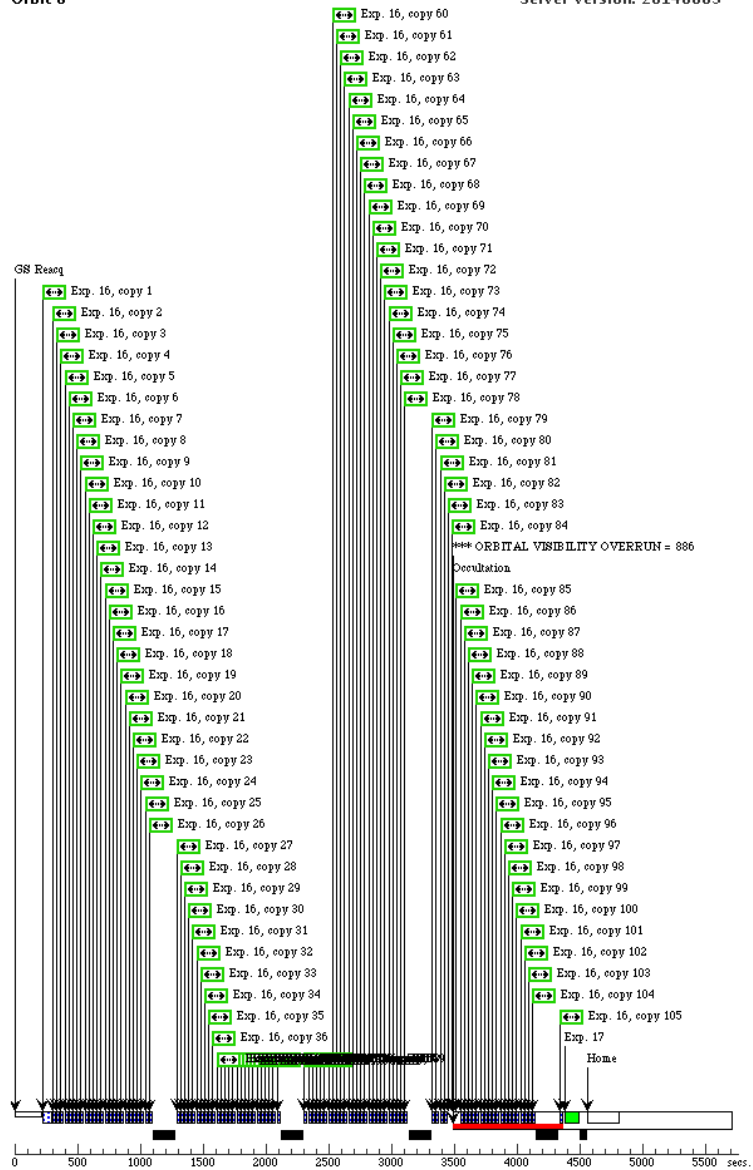




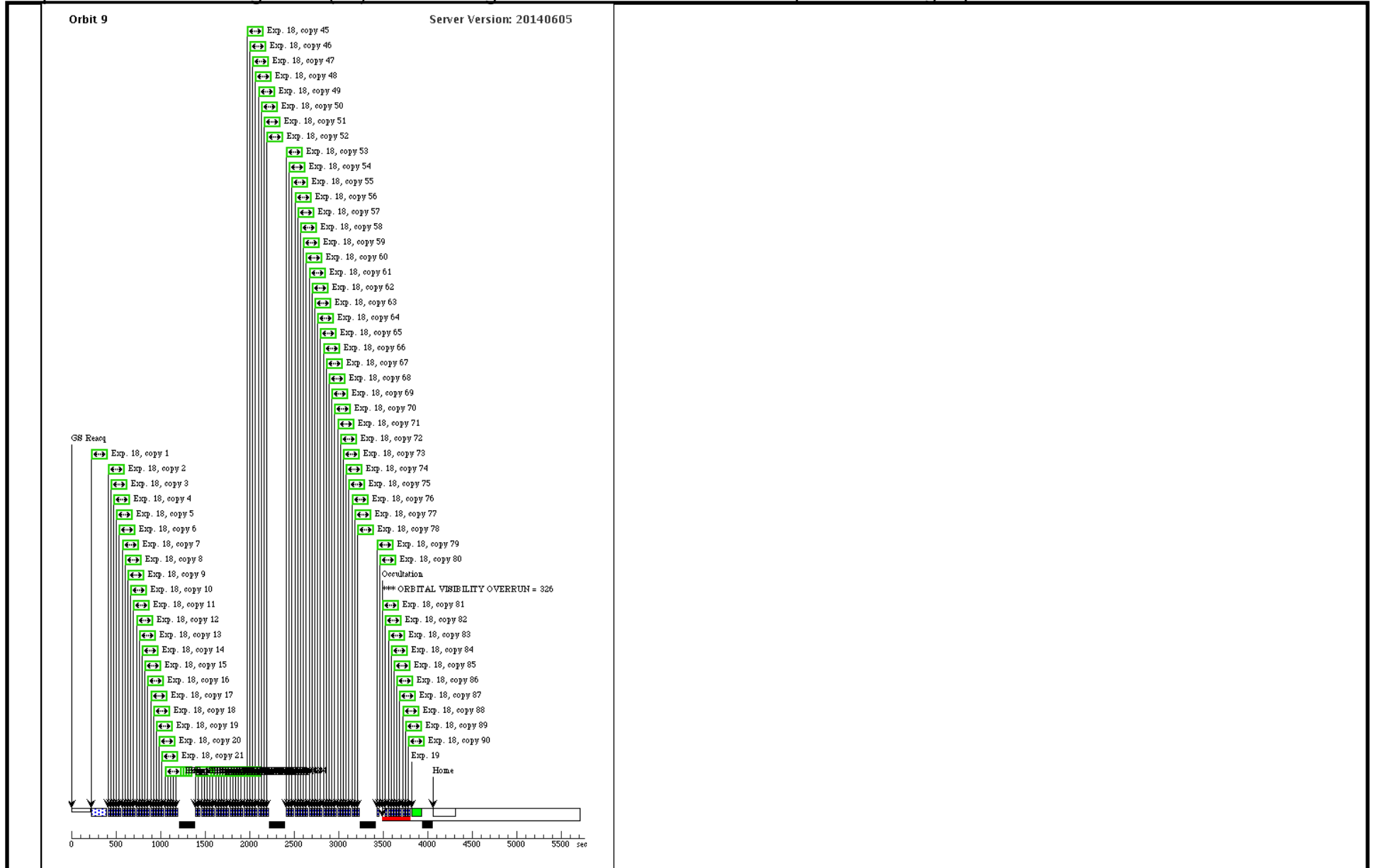
Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

Orbit 8

Server Version: 20140605



Proposal 13927 - Jul-Aug-2014 (04) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

| Visit   | <p><b>Proposal 13927, Jul-Aug-2014 (05), scheduling</b> <span style="float: right;">Fri Jul 18 01:36:24 GMT 2014</span></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: ORIENT 57D TO 75 D; BETWEEN 28-JUL-2014:11:10:00 AND 29-JUL-2014:01:09:00; BETWEEN 31-JUL-2014:17:19:00 AND 01-AUG-2014:06:49:00; BETWEEN 03-AUG-2014:22:59:00 AND 04-AUG-2014:12:29:00; BETWEEN 07-AUG-2014:04:38:00 AND 07-AUG-2014:18:08:00</p> <p><i>Comments: Preferred ORIENT is 75, but opening up the range to check on guide stars and other windows not available at 75 degrees.</i></p>  |                                  |                                    |              |                               |   |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|---|---|----------------------------------|------------------------------------|--------------|-------------------------------|---|------|--------------------|--------------------------|--------|---------------|-----|-------------|----------------------------------|-----------------------------------|--------------|-----------------------|--|---------------------|--------------------------------|------------------------------------|--|--|--|--------------------|----------------|------------------|--|--|--|--|--|-----------------------------|--|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|-----|-------------|-------------------------|--|--------------|-------------------------------|--|---------------------|------------------------|--|--|--|--|-------------------|--------------------------|--|--|--|---|--|--|--|--|--|
| Diagnostics   | <p>(Jul-Aug-2014 (05)) Warning (Orbit Planner): LONG SU LIKELY TO INTERSECT THE SAA</p> <p>(Jul-Aug-2014 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Jul-Aug-2014 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</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>(1)</td> <td>ALPHA-CEN-A</td> <td>RA: 14 39 29.3800 (219.8724167d)</td> <td>Proper Motion RA: -3.82 arcsec/yr</td> <td>V=-0.1+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: HD128620</td> <td>Dec: -60 49 58.40 (-60.83289d)</td> <td>Proper Motion Dec: +0.31 arcsec/yr</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR-5459</td> <td>Equinox: J2000</td> <td>Parallax: 0.747"</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2013.480</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Radial Velocity: 24 km/sec</td> <td></td> <td></td> </tr> <tr> <td colspan="6"><i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i></td> </tr> <tr> <td>(2)</td> <td>ALPHA-CEN-B</td> <td>Offset from ALPHA-CEN-A</td> <td></td> <td>V=1.33+/-0.1</td> <td>Offset Position (ALPHA-CEN-B)</td> </tr> <tr> <td></td> <td>Alt Name1: HD128621</td> <td>RA Offset: -0.558 Secs</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR5460</td> <td>Dec Offset: 0.974 Arcsec</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="6"><i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i></td> </tr> </tbody> </table> |                                  |                                    |              |                               | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (1) | ALPHA-CEN-A | RA: 14 39 29.3800 (219.8724167d) | Proper Motion RA: -3.82 arcsec/yr | V=-0.1+/-0.1 | Reference Frame: ICRS |  | Alt Name1: HD128620 | Dec: -60 49 58.40 (-60.83289d) | Proper Motion Dec: +0.31 arcsec/yr |  |  |  | Alt Name2: HR-5459 | Equinox: J2000 | Parallax: 0.747" |  |  |  |  |  | Epoch of Position: 2013.480 |  |  |  |  |  | Radial Velocity: 24 km/sec |  |  | <i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i> |  |  |  |  |  | (2) | ALPHA-CEN-B | Offset from ALPHA-CEN-A |  | V=1.33+/-0.1 | Offset Position (ALPHA-CEN-B) |  | Alt Name1: HD128621 | RA Offset: -0.558 Secs |  |  |  |  | Alt Name2: HR5460 | Dec Offset: 0.974 Arcsec |  |  |  | <i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i> |  |  |  |  |  |
| #   | Name  | Target Coordinates               | Targ. Coord. Corrections           | Fluxes       | Miscellaneous                 |   |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| (1)   | ALPHA-CEN-A   | RA: 14 39 29.3800 (219.8724167d) | Proper Motion RA: -3.82 arcsec/yr  | V=-0.1+/-0.1 | Reference Frame: ICRS         |   |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | Alt Name1: HD128620   | Dec: -60 49 58.40 (-60.83289d)   | Proper Motion Dec: +0.31 arcsec/yr |              |                               |   |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | Alt Name2: HR-5459  | Equinox: J2000                   | Parallax: 0.747"                   |              |                               |   |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   |                                  | Epoch of Position: 2013.480        |              |                               |   |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   |   |                                  | Radial Velocity: 24 km/sec         |              |                               |   |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| <i>Comments: Target coordinates from PID 13465 (PI T. Ayres)</i>  |   |                                  |                                    |              |                               |   |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| (2)   | ALPHA-CEN-B   | Offset from ALPHA-CEN-A          |                                    | V=1.33+/-0.1 | Offset Position (ALPHA-CEN-B) |   |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | Alt Name1: HD128621   | RA Offset: -0.558 Secs           |                                    |              |                               |   |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
|   | Alt Name2: HR5460   | Dec Offset: 0.974 Arcsec         |                                    |              |                               |   |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |
| <i>Comments: Offsets of B from A resulting from the revised ephemeris of T. Ayres and valid for the mid-July / mid-August period.</i> |   |                                  |                                    |              |                               |   |      |                    |                          |        |               |     |             |                                  |                                   |              |                       |  |                     |                                |                                    |  |  |  |                    |                |                  |  |  |  |  |  |                             |  |  |  |  |  |                            |  |  |  |  |  |  |  |  |     |             |                         |  |              |                               |  |                     |                        |  |  |  |  |                   |                          |  |  |  |   |  |  |  |  |  |

Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

| #  | Label                         | Target          | Config,Mode,Aperture        | Spectral Els.   | Opt. Params.  | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|--|-------------------------------|-----------------|-----------------------------|-----------------|---|---------------|--------|---------------------------------|-------|
| 1  | ACQ_ALP<br>HA-CEN-A           | (1) ALPHA-CEN-A | STIS/CCD, ACQ, F25ND5       | MIRROR          |   |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| 2  | ACQPEAK<br>_ALPHA-C<br>EN-B   | (2) ALPHA-CEN-B | STIS/CCD, ACQ/PEAK, 52X0.05 | G750M<br>6094 A |   |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| <i>Comments: Setting GAIN=4, which needs to be done within the AVAILABLE mode, is required to avoid saturation for this acquisition.</i> |                               |                 |                             |                 |   |               |        |                                 |       |
| 3  | GO-WAVE<br>CAL                | WAVE            | STIS/CCD, ACCUM, 52X0.2     | G750M<br>6094 A |   |               |        | [==>]                           | [1]   |
| 4  | SCI_ALPH<br>A-CEN-B_S<br>HORT | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2       | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300;<br>WAVECAL=NO |               |        | 0.1 Secs (0.1 Secs)<br>[==>]    | [1]   |
| <i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i>                                |                               |                 |                             |                 |   |               |        |                                 |       |

Exposures

Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |   |                 |   |  |                        |
|---|---|-----------------|---|--|------------------------|
| 5 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300;<br>WAVECAL=NO | Sequence 5-5 Non-Int<br>in Jul-Aug-2014 (05) | 6 Secs X 90 (540 Secs) |
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Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |                     |                 |                       |                 |  |  |                         |  |
|---|---------------------|-----------------|-----------------------|-----------------|--|--|-------------------------|--|
| 6 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 6-6 Non-Int<br>in Jul-Aug-2014 (05) | 6 Secs X 119 (714 Secs) |  |
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Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |   |                 |  |           |  |                         |
|---|---|-----------------|--|-----------|--|-------------------------|
| 7 | SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | NEW OBSET | Sequence 7-7 Non-Int<br>in Jul-Aug-2014 (05) | 6 Secs X 135 (810 Secs) |
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Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |                     |                 |                       |                 |  |  |                         |  |
|---|---------------------|-----------------|-----------------------|-----------------|--|--|-------------------------|--|
| 8 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 8-8 Non-Int<br>in Jul-Aug-2014 (05) | 6 Secs X 135 (810 Secs) |  |
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Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

*Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.*

Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|   |                                     |                       |                 |  |           |  |                         |
|---|-------------------------------------|-----------------------|-----------------|--|-----------|--|-------------------------|
| 9 | SCI_ALPH (2) ALPHA-CEN-B<br>A-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | NEW OBSET | Sequence 9-9 Non-Int<br>in Jul-Aug-2014 (05) | 6 Secs X 120 (720 Secs) |
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Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <p><i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i></p> |  |            |
| <p>10 GO-WAVE WAVE STIS/CCD, ACCUM, 52X0.2 G750M<br/>                 CAL 6094 A</p>                             | <p>[==&gt;]</p>  | <p>[5]</p> |

Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|  |  |                 |   |  |                         |
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|  | 11 SCI_ALPH (2) ALPHA-CEN-B STIS/CCD, ACCUM, 52X2<br>A-CEN-B | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300;<br>WAVECAL=NO | Sequence 11-11 Non<br>-Int in Jul-Aug-2014<br>(05) | 6 Secs X 120 (720 Secs) |
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Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i> |   |     |
| 12 GO-WAVE WAVE STIS/CCD, ACCUM, 52X0.2 G750M<br>CAL 6094 A   | [==>]   | [6] |

Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                     |                 |                       |                 |  |  |                         |  |
|----|---------------------|-----------------|-----------------------|-----------------|--|--|-------------------------|--|
| 13 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 13-13 Non<br>-Int in Jul-Aug-2014<br>(05) | 6 Secs X 115 (690 Secs) |  |
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Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <p><i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i></p> |  |            |
| <p>14 GO-WAVE WAVE STIS/CCD, ACCUM, 52X0.2 G750M<br/>                 CAL 6094 A</p>                             | <p>[==&gt;]</p>  | <p>[7]</p> |

Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                     |                 |                       |                 |  |           |  |                         |  |
|----|---------------------|-----------------|-----------------------|-----------------|--|-----------|--|-------------------------|--|
| 15 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | NEW OBSET | Sequence 15-15 Non<br>-Int in Jul-Aug-2014<br>(05) | 6 Secs X 110 (660 Secs) |  |
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Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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| <p><i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i></p> |  |            |
| <p>16 GO-WAVE WAVE STIS/CCD, ACCUM, 52X0.2 G750M<br/>                 CAL 6094 A</p>                             | <p>[==&gt;]</p>  | <p>[8]</p> |

Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

|    |                     |                 |                       |                 |  |  |                         |  |
|----|---------------------|-----------------|-----------------------|-----------------|--|--|-------------------------|--|
| 17 | SCI_ALPH<br>A-CEN-B | (2) ALPHA-CEN-B | STIS/CCD, ACCUM, 52X2 | G750M<br>6094 A | CR-SPLIT=NO;<br>GAIN=4;<br>SIZEAXIS2=300 | Sequence 17-17 Non<br>-Int in Jul-Aug-2014<br>(05) | 6 Secs X 104 (624 Secs) |  |
|----|---------------------|-----------------|-----------------------|-----------------|--|--|-------------------------|--|

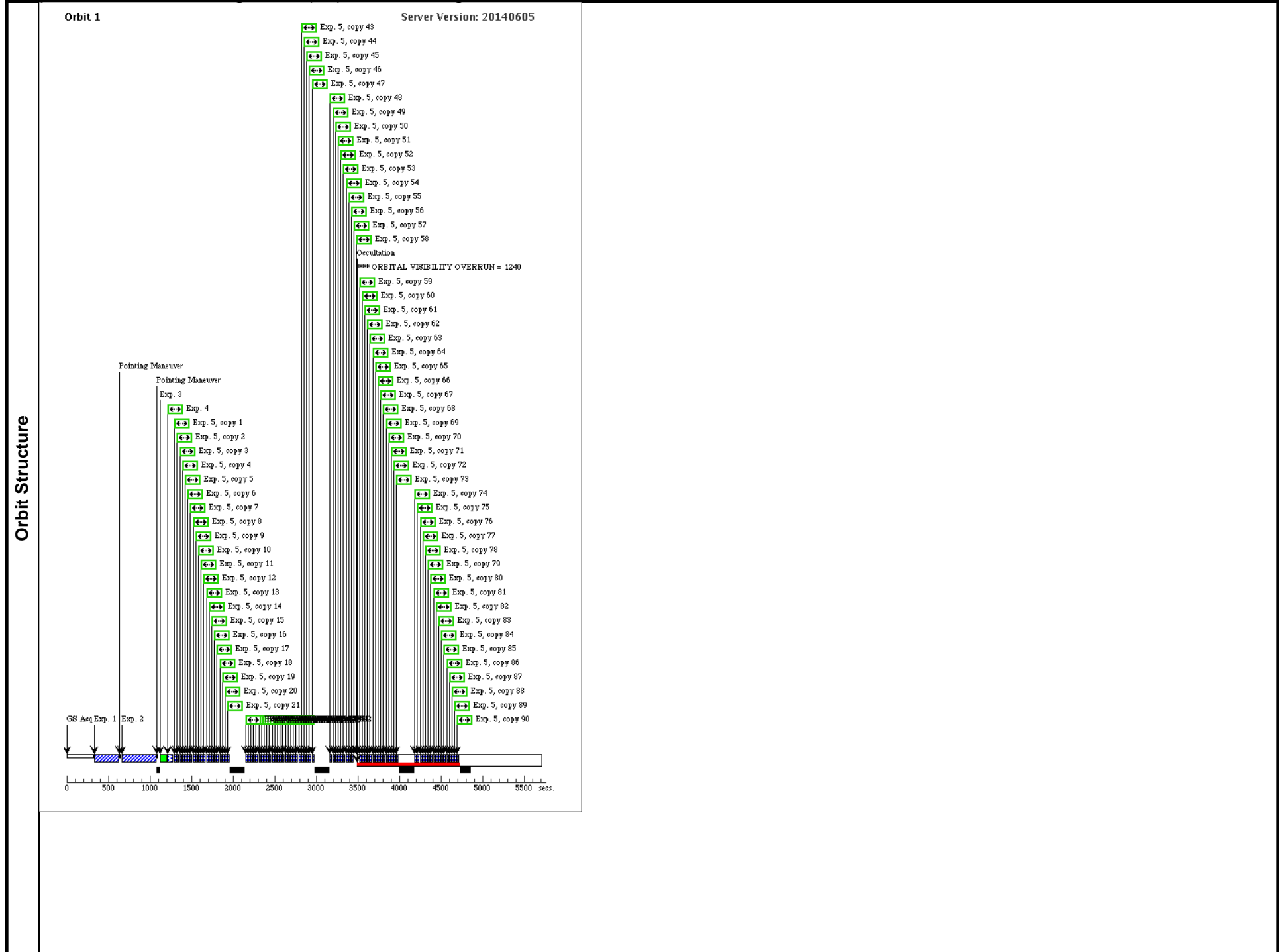
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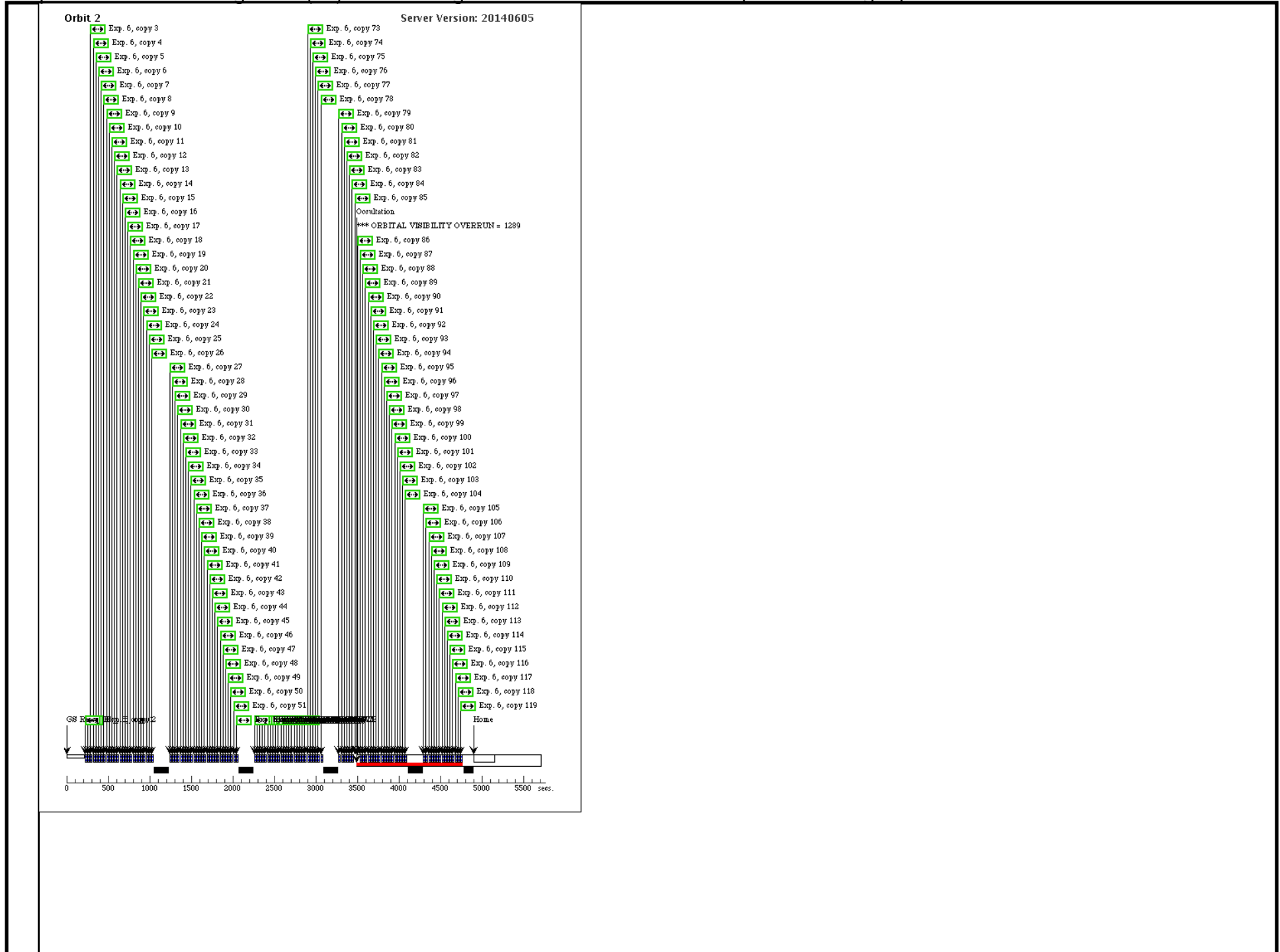
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Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

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|   |         |      |                         |        |  | [==>(Copy 91)]<br>[==>(Copy 92)]<br>[==>(Copy 93)]<br>[==>(Copy 94)]<br>[==>(Copy 95)]<br>[==>(Copy 96)]<br>[==>(Copy 97)]<br>[==>(Copy 98)]<br>[==>(Copy 99)]<br>[==>(Copy 100)]<br>[==>(Copy 101)]<br>[==>(Copy 102)]<br>[==>(Copy 103)]<br>[==>(Copy 104)] |     |
| <i>Comments: This exposure is saturated on purpose. We also require "WAVECAL=NO" for these exposures.</i> |         |      |                         |        |  |   |     |
| 18  | GO-WAVE | WAVE | STIS/CCD, ACCUM, 52X0.2 | G750M  |  | [==>]   | [9] |
|   | CAL     |      |                         | 6094 A |  |   |     |



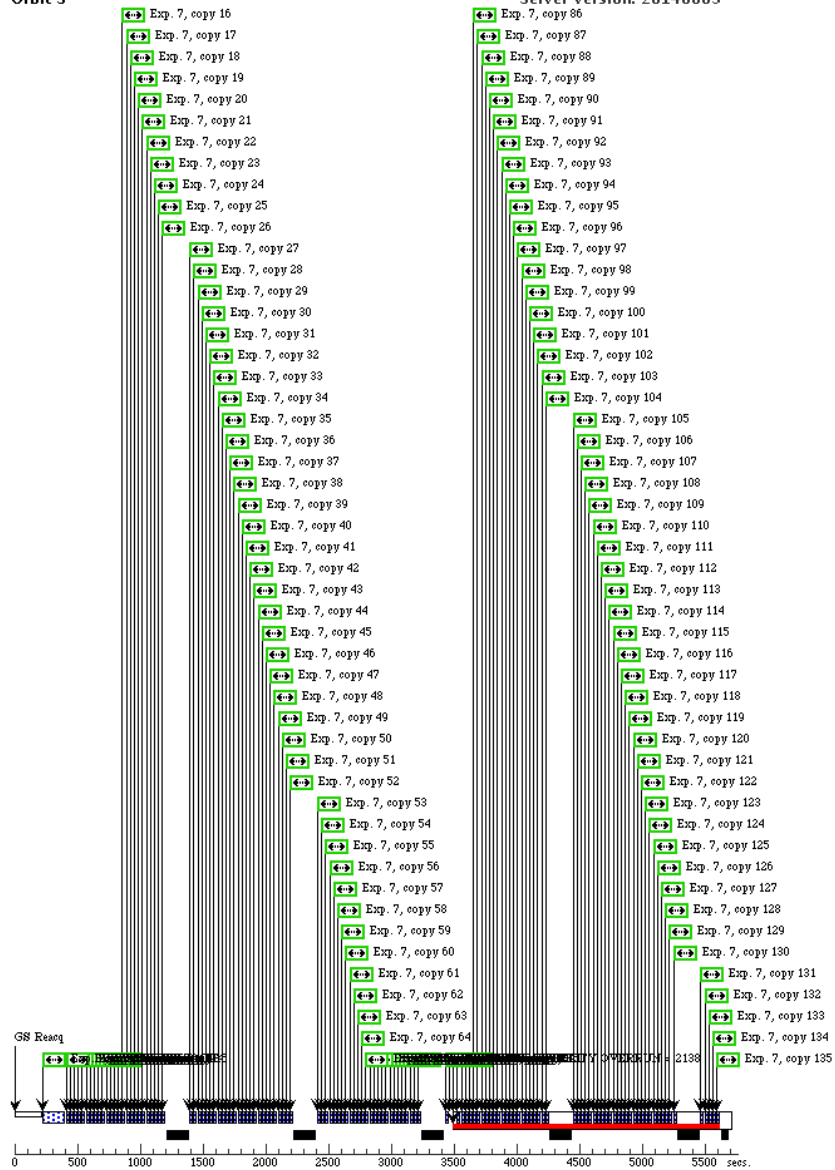
# Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



# Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

Orbit 3

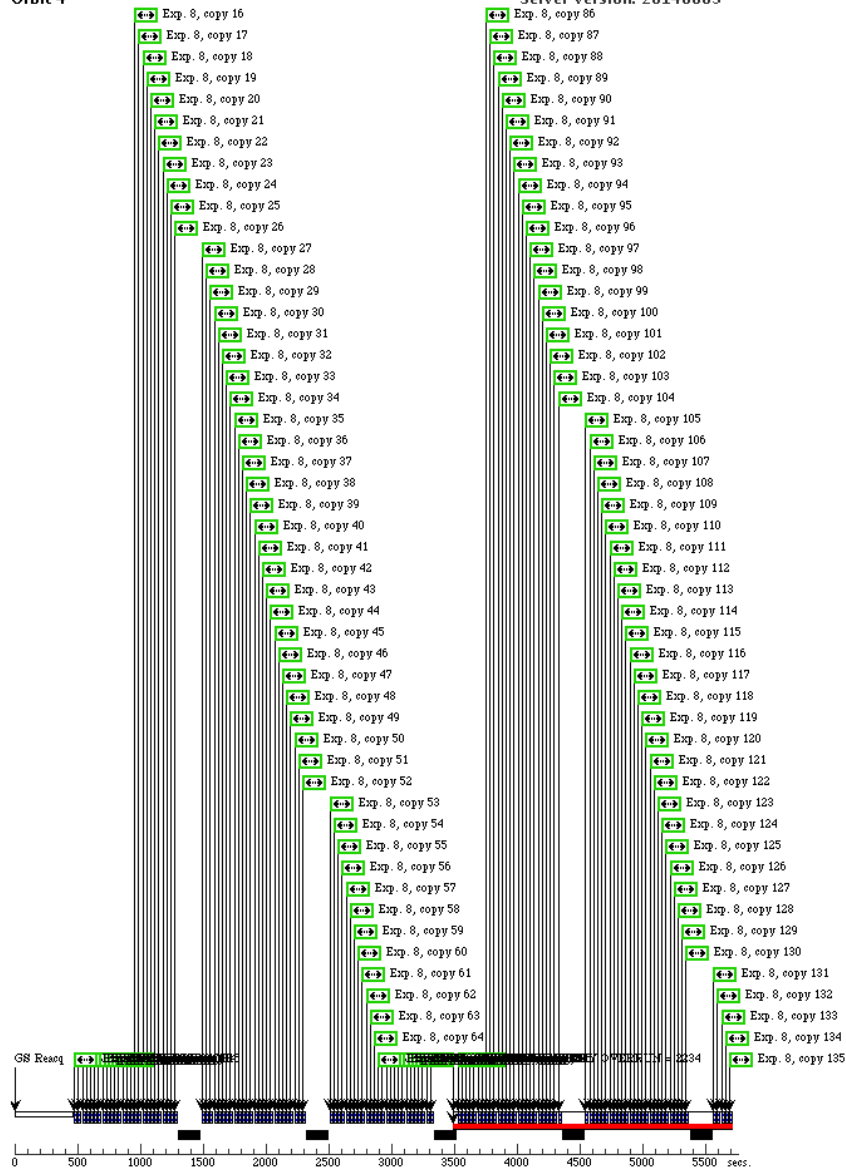
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# Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

Orbit 4

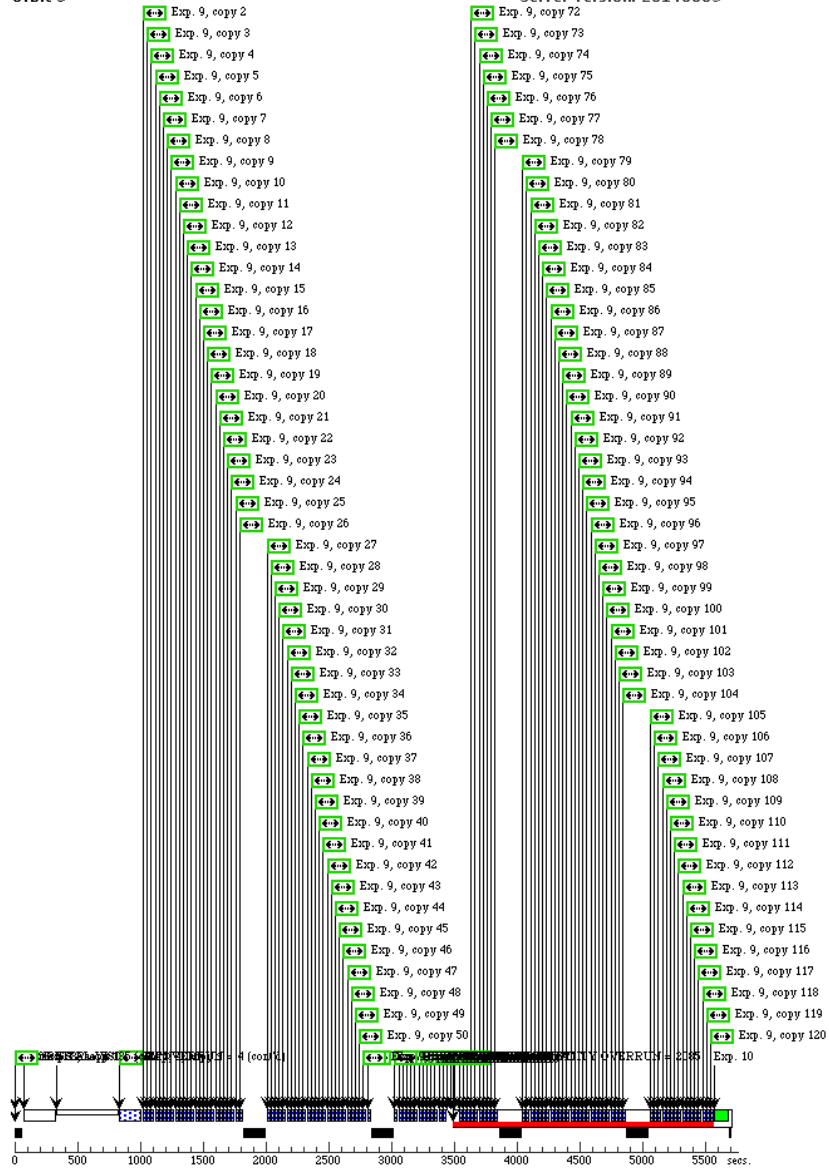
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Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

Orbit 5

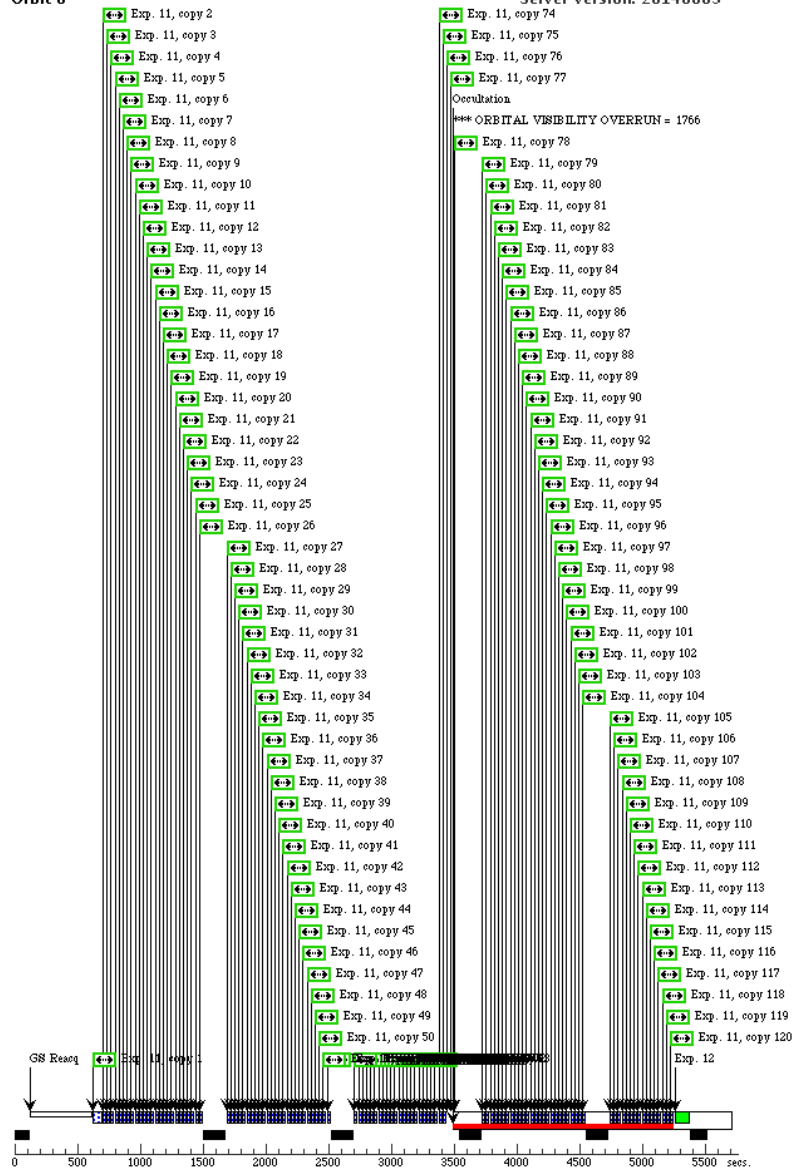
Server Version: 20140605



# Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

Orbit 6

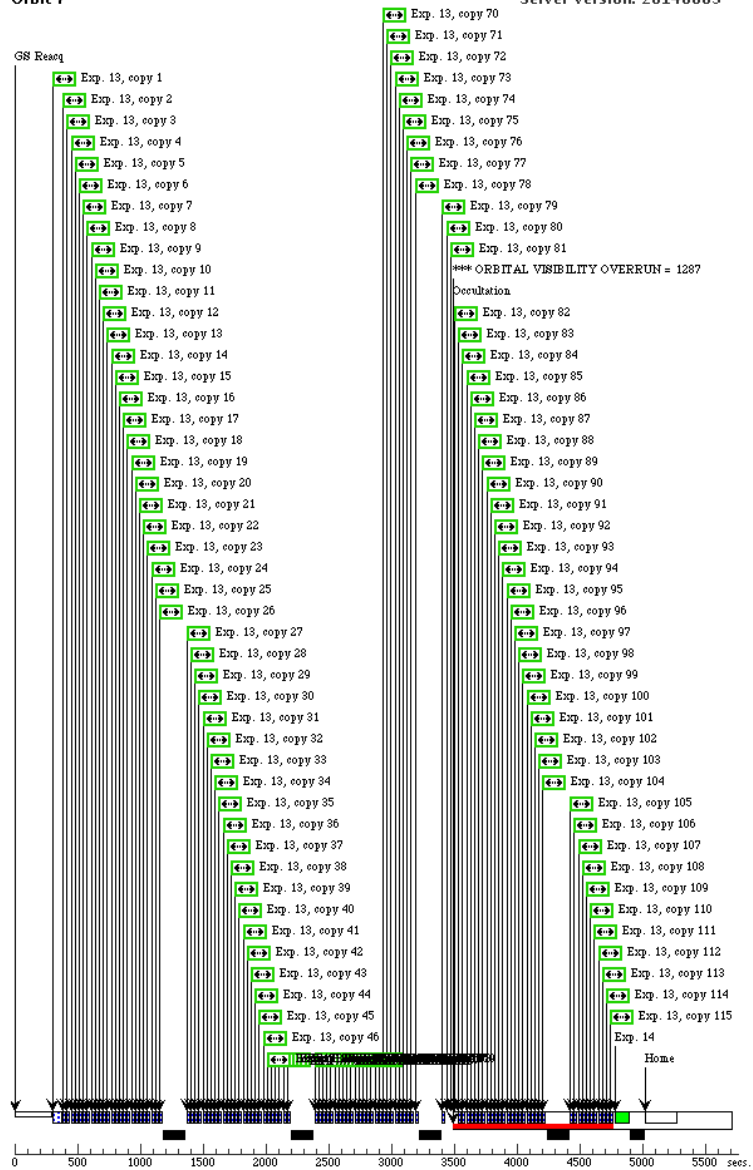
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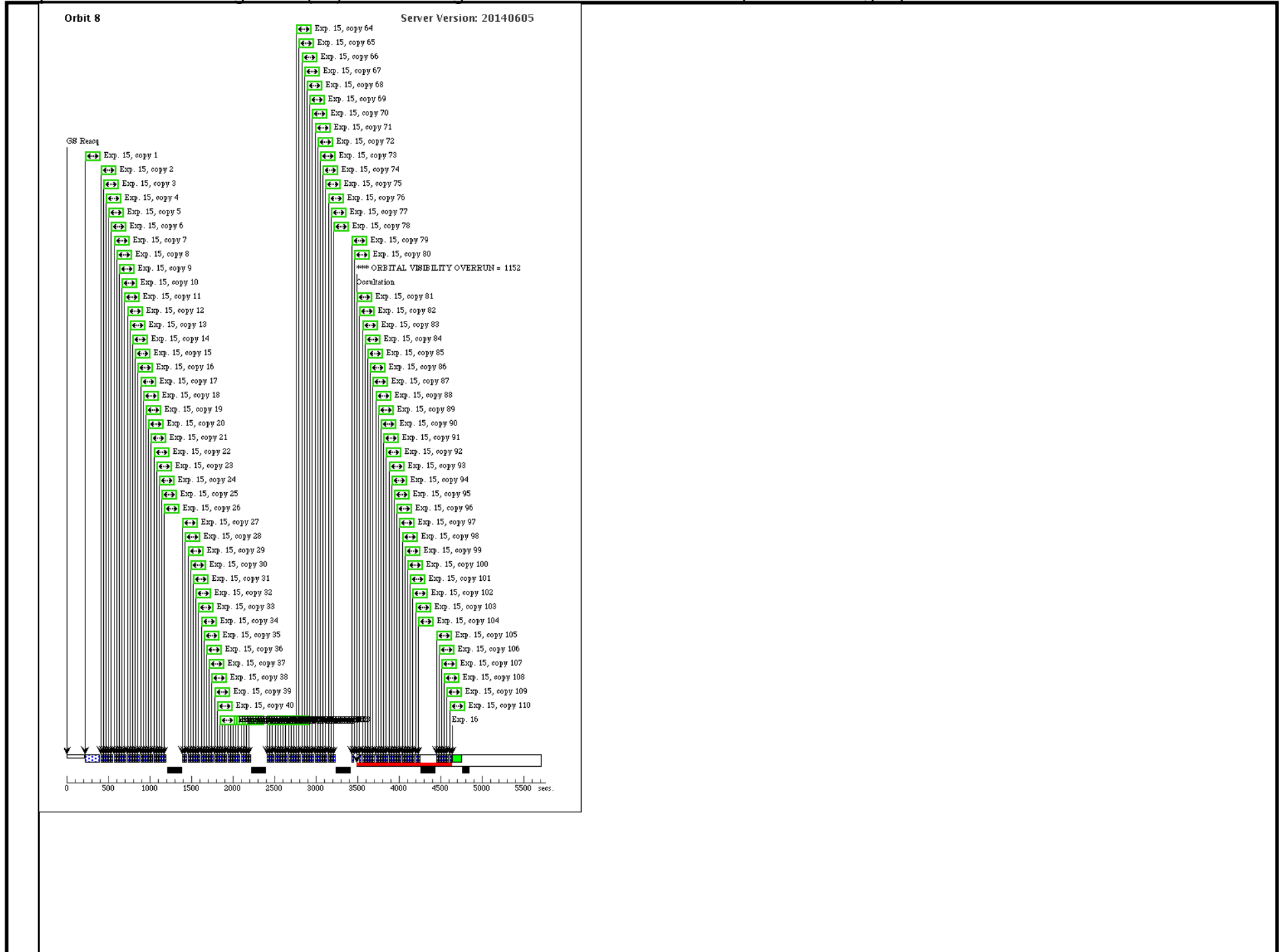
Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

Orbit 7 Server Version: 20140605

GS Req



Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B



Proposal 13927 - Jul-Aug-2014 (05) - Confirming the transit of the Earth-mass planet orbiting Alpha Centauri B

