



# 15146 - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

Cycle: 25, Proposal Category: GO

(Availability Mode: SUPPORTED)

## INVESTIGATORS

| <i>Name</i>                          | <i>Institution</i>                  | <i>E-Mail</i>           |
|--------------------------------------|-------------------------------------|-------------------------|
| <b>Dr. Adam Riess (PI) (Contact)</b> | <b>The Johns Hopkins University</b> | <b>ariess@stsci.edu</b> |
| Dr. Stefano Casertano (CoI)          | Space Telescope Science Institute   | stefano@stsci.edu       |
| Dr. Thomas M. Brown (CoI)            | Space Telescope Science Institute   | tbrown@stsci.edu        |
| Dr. Samantha Hoffmann (CoI)          | Space Telescope Science Institute   | slhoffmann@stsci.edu    |
| Prof. Lucas M. Macri (CoI)           | Texas A & M University              | lmacri@tamu.edu         |
| Caroline Huang (CoI)                 | The Johns Hopkins University        | chuang64@jhu.edu        |
| Dr. Wenlong Yuan (CoI)               | The Johns Hopkins University        | yuanwenlong@tamu.edu    |

## 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) CEPH-11.27654+41.69484<br>(2) GRP-11.29561+41.60411<br>(3) CEPH-11.06418+41.56925<br>(4) CEPH-11.09119+41.37223<br>(5) CEPH-11.02407+41.34854<br>(6) CEPH-11.02103+41.31618<br>(7) GRP-11.01944+41.23304 | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:00:49.0        | yes                           |

| <b>Visit</b> | <b>Targets used in Visit</b>                                                                                                                                                                                                                      | <b>Configurations used in Visit</b> | <b>Orbits Used</b> | <b>Last Orbit Planner Run</b> | <b>OP Current with Visit?</b> |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 02           | (1) CEPH-11.27654+41.69484<br>(2) GRP-11.29561+41.60411<br>(3) CEPH-11.06418+41.56925<br>(4) CEPH-11.09119+41.37223<br>(5) CEPH-11.02407+41.34854<br>(6) CEPH-11.02103+41.31618<br>(7) GRP-11.01944+41.23304                                      | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:00:52.0        | yes                           |
| 03           | (8) CEPH-11.39343+41.93733<br>(9) GRP-11.41291+41.90711<br>(10) CEPH-11.45542+41.86441<br>(11) CEPH-11.34599+41.84588<br>(12) CEPH-11.36712+41.83738<br>(13) GRP-11.41161+41.80854<br>(14) CEPH-11.35106+41.73513<br>(15) GRP-11.32917+41.65060   | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:00:56.0        | yes                           |
| 04           | (8) CEPH-11.39343+41.93733<br>(9) GRP-11.41291+41.90711<br>(10) CEPH-11.45542+41.86441<br>(11) CEPH-11.34599+41.84588<br>(12) CEPH-11.36712+41.83738<br>(13) GRP-11.41161+41.80854<br>(14) CEPH-11.35106+41.73513<br>(15) GRP-11.32917+41.65060   | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:00:59.0        | yes                           |
| 05           | (16) CEPH-11.35459+41.70886<br>(17) CEPH-11.36335+41.69985<br>(18) GRP-11.37299+41.65862<br>(19) CEPH-11.26353+41.60053<br>(20) CEPH-11.28144+41.58776<br>(21) GRP-11.25609+41.56927<br>(22) CEPH-11.12919+41.61338<br>(23) GRP-11.13498+41.62908 | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:03.0        | yes                           |

| <b>Visit</b> | <b>Targets used in Visit</b>                                                                                                                                                                                                                      | <b>Configurations used in Visit</b> | <b>Orbits Used</b> | <b>Last Orbit Planner Run</b> | <b>OP Current with Visit?</b> |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 06           | (16) CEPH-11.35459+41.70886<br>(17) CEPH-11.36335+41.69985<br>(18) GRP-11.37299+41.65862<br>(19) CEPH-11.26353+41.60053<br>(20) CEPH-11.28144+41.58776<br>(21) GRP-11.25609+41.56927<br>(22) CEPH-11.12919+41.61338<br>(23) GRP-11.13498+41.62908 | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:06.0        | yes                           |
| 07           | (24) CEPH-10.91809+41.18565<br>(25) GRP-10.90530+41.24005<br>(26) GRP-10.92725+41.24822<br>(27) CEPH-11.05340+41.30685<br>(28) GRP-11.09581+41.35417<br>(29) GRP-11.17066+41.40333<br>(30) CEPH-11.23543+41.47288<br>(31) GRP-11.24332+41.50926   | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:09.0        | yes                           |
| 08           | (24) CEPH-10.91809+41.18565<br>(25) GRP-10.90530+41.24005<br>(26) GRP-10.92725+41.24822<br>(27) CEPH-11.05340+41.30685<br>(28) GRP-11.09581+41.35417<br>(29) GRP-11.17066+41.40333<br>(30) CEPH-11.23543+41.47288<br>(31) GRP-11.24332+41.50926   | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:12.0        | yes                           |
| 09           | (32) GRP-11.03915+41.30692<br>(33) GRP-11.09177+41.32170<br>(34) GRP-11.13381+41.40984<br>(35) GRP-11.19786+41.44792<br>(36) GRP-11.20822+41.44917<br>(37) CEPH-11.21898+41.47505<br>(38) CEPH-11.01715+41.46200<br>(39) CEPH-11.00794+41.50202   | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:15.0        | yes                           |

| <b>Visit</b> | <b>Targets used in Visit</b>                                                                                                                                                                                                                    | <b>Configurations used in Visit</b> | <b>Orbits Used</b> | <b>Last Orbit Planner Run</b> | <b>OP Current with Visit?</b> |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 10           | (32) GRP-11.03915+41.30692<br>(33) GRP-11.09177+41.32170<br>(34) GRP-11.13381+41.40984<br>(35) GRP-11.19786+41.44792<br>(36) GRP-11.20822+41.44917<br>(37) CEPH-11.21898+41.47505<br>(38) CEPH-11.01715+41.46200<br>(39) CEPH-11.00794+41.50202 | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:18.0        | yes                           |
| 11           | (40) OGL1862<br>(41) OGL1994<br>(42) OGL2012<br>(43) OGL1939<br>(44) OGL1941<br>(45) OGL2043<br>(46) OGL2019<br>(47) OGL1940<br>(48) OGL1945                                                                                                    | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:21.0        | yes                           |
| 12           | (49) OGL1677<br>(50) OGL1637<br>(51) OGL1641<br>(52) OGL1616<br>(53) OGL1539<br>(54) OGL1466<br>(55) OGL1374<br>(56) OGL1424<br>(57) OGL1389                                                                                                    | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:25.0        | yes                           |

Proposal 15146 (STScI Edit Number: 13, Created: Monday, November 5, 2018 at 1:01:58 PM Eastern Standard Time) - Overview

| <b>Visit</b> | <b>Targets used in Visit</b>                                                                                                                                                 | <b>Configurations used in Visit</b> | <b>Orbits Used</b> | <b>Last Orbit Planner Run</b> | <b>OP Current with Visit?</b> |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 13           | (58) OGL1442<br>(59) OGL1404<br>(60) OGL1313<br>(61) OGL1353<br>(62) OGL1417<br>(63) OGL1463<br>(64) OGL1364<br>(65) OGL1262                                                 | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:27.0        | yes                           |
| 20           | (49) OGL1677<br>(50) OGL1637<br>(51) OGL1641<br>(52) OGL1616<br>(58) OGL1442<br>(59) OGL1404<br>(60) OGL1313<br>(61) OGL1353<br>(62) OGL1417<br>(63) OGL1463<br>(64) OGL1364 | WFC3/UVIS                           | 1                  | 05-Nov-2018 13:01:30.0        | yes                           |
| 14           | (67) OGL2812<br>(68) OGL2775<br>(69) OGL2694<br>(70) OGL2762<br>(71) OGL2765<br>(72) OGL2866<br>(73) OGL2805                                                                 | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:32.0        | yes                           |

Proposal 15146 (STScI Edit Number: 13, Created: Monday, November 5, 2018 at 1:01:58 PM Eastern Standard Time) - Overview

| <b>Visit</b> | <b>Targets used in Visit</b>                                                                                                  | <b>Configurations used in Visit</b> | <b>Orbits Used</b> | <b>Last Orbit Planner Run</b> | <b>OP Current with Visit?</b> |
|--------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 21           | (67) OGL2812<br>(68) OGL2775<br>(69) OGL2694<br>(70) OGL2762<br>(71) OGL2765<br>(72) OGL2866<br>(73) OGL2805                  | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:35.0        | yes                           |
| 15           | (40) OGL1862<br>(41) OGL1994<br>(53) OGL1539<br>(58) OGL1442<br>(59) OGL1404<br>(60) OGL1313<br>(61) OGL1353<br>(108) OGL2176 | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:37.0        | yes                           |
| 30           | (111) OGL501<br>(112) OGL512<br>(113) OGL528<br>(114) OGL545<br>(115) OGL683                                                  | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:39.0        | yes                           |
| 31           | (117) OGL787<br>(118) OGL801<br>(119) OGL986<br>(121) OGL1031                                                                 | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:40.0        | yes                           |
| 34           | (41) OGL1994<br>(53) OGL1539<br>(119) OGL986<br>(122) OGL1080                                                                 | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:42.0        | yes                           |

Proposal 15146 (STScI Edit Number: 13, Created: Monday, November 5, 2018 at 1:01:58 PM Eastern Standard Time) - Overview

| <b>Visit</b> | <b>Targets used in Visit</b>                                                                                                         | <b>Configurations used in Visit</b> | <b>Orbits Used</b> | <b>Last Orbit Planner Run</b> | <b>OP Current with Visit?</b> |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 32           | (101) OGL0510<br>(102) OGL0594<br>(103) OGL0648<br>(109) OGL590<br>(110) OGL434<br>(116) OGL727                                      | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:43.0        | yes                           |
| 16           | (83) OGL1411<br>(84) OGL1431<br>(85) OGL1490<br>(86) OGL1526<br>(87) OGL1587<br>(88) OGL1578<br>(89) OGL1647                         | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:46.0        | yes                           |
| 17           | (92) OGL1112<br>(93) OGL1001<br>(94) OGL0963<br>(95) OGL0871<br>(96) OGL0846<br>(97) OGL0776<br>(98) OGL0833                         | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:49.0        | yes                           |
| 18           | (100) OGL0434<br>(101) OGL0510<br>(102) OGL0594<br>(103) OGL0648<br>(104) OGL0757<br>(105) OGL0741<br>(106) OGL0884<br>(107) OGL0787 | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:51.0        | yes                           |

| <b>Visit</b> | <b>Targets used in Visit</b>                                                                                       | <b>Configurations used in Visit</b> | <b>Orbits Used</b> | <b>Last Orbit Planner Run</b> | <b>OP Current with Visit?</b> |
|--------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 19           | (100) OGL0434<br>(101) OGL0510<br>(102) OGL0594<br>(103) OGL0648<br>(104) OGL0757<br>(107) OGL0787<br>(109) OGL590 | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:53.0        | yes                           |
| 33           | (53) OGL1539<br>(111) OGL501<br>(112) OGL512<br>(115) OGL683<br>(121) OGL1031<br>(123) OGL0966                     | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:55.0        | yes                           |
| 35           | (111) OGL501<br>(112) OGL512<br>(113) OGL528<br>(115) OGL683<br>(121) OGL1031<br>(123) OGL0966                     | WFC3/IR<br>WFC3/UVIS                | 1                  | 05-Nov-2018 13:01:57.0        | yes                           |
| 36           | (40) OGL1862<br>(58) OGL1442<br>(60) OGL1313<br>(61) OGL1353                                                       | WFC3/UVIS                           | 1                  | 05-Nov-2018 13:01:58.0        | yes                           |

28 Total Orbits Used

## ABSTRACT

The star formation histories of our nearest neighbors, M31 and the LMC, have been the subjects of intensive study but the 3% to 5% uncertainty in their distance limits knowledge of the ages of their structures to 0.6 to 1.0 Gyr. Two recent developments make it possible



to reach the previously unimaginable precision in distance of 1%. The first is the development of DASH, which allows HST and WFC3 to slew tens of arcminutes between exposures within an orbit under gyro control with enough precision to efficiently observe widely distributed Cepheids. The second is the arrival of parallax measurements from Gaia which are calibrating the individual distances of long period Cepheids in the Milky Way to 2%. However, bandpass and zeropoint differences between ground and space observations would compromise the precision of the Gaia parallaxes when building a Cepheid bridge to our neighbors. We propose to dash around the LMC and M31 with WFC3 to rapidly collect 3 band photometry of over 70 long period Cepheids using the same photometric system as a calibration set of Cepheids in the Milky Way. These will nullify otherwise systematic errors to extend the precision of Gaia beyond the Milky Way and clock the formation of structures in M31 and the LMC to 100 Myr.

## **OBSERVING DESCRIPTION**

TBD

| Visit         | Proposal 15146, M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 1 (01), completed                                                               |                        |                                                                                    |                          |                                     | Mon Nov 05 18:01:58 GMT 2018 |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------|--------------------------|-------------------------------------|------------------------------|
|               | Diagnostic Status: No Diagnostics<br>Scientific Instruments: WFC3/IR, WFC3/UVIS<br>Special Requirements: (none)                                                        |                        |                                                                                    |                          |                                     |                              |
| Fixed Targets | #                                                                                                                                                                      | Name                   | Target Coordinates                                                                 | Targ. Coord. Corrections | Fluxes                              | Miscellaneous                |
|               | (1)                                                                                                                                                                    | CEPH-11.27654+41.69484 | RA: 00 45 6.3696 (11.2765400d)<br>Dec: +41 41 41.42 (41.69484d)<br>Equinox: J2000  |                          | V=(?)<br>H= 18.78 I = 19.8 V = 20.8 | Reference Frame: SIMBAD      |
|               | Comments: M31 Cepheid: 11.27654 +41.69484 P= 10.050d, F160W= 18.78<br>Category=STAR<br>Description=[CEPHEID]                                                           |                        |                                                                                    |                          |                                     |                              |
|               | (2)                                                                                                                                                                    | GRP-11.29561+41.60411  | RA: 00 45 10.9476 (11.2956150d)<br>Dec: +41 36 14.80 (41.60411d)<br>Equinox: J2000 |                          | V=(?)<br>H= 17.45 I = 18.5 V = 19.5 | Reference Frame: SIMBAD      |
|               | Comments: Grouping of 2 M31 Cepheids: 11.29563 +41.60412 P= 48.472d, F160W= 17.45 11.29560 +41.60410 P= 48.447d, F160W= 17.4<br>Category=STAR<br>Description=[CEPHEID] |                        |                                                                                    |                          |                                     |                              |
|               | (3)                                                                                                                                                                    | CEPH-11.06418+41.56925 | RA: 00 44 15.4032 (11.0641800d)<br>Dec: +41 34 9.30 (41.56925d)<br>Equinox: J2000  |                          | V=(?)<br>H= 16.04 I = 17.0 V = 18.0 | Reference Frame: SIMBAD      |
|               | Comments: M31 Cepheid: 11.06418 +41.56925 P= 78.000d, F160W= 16.04<br>Category=STAR<br>Description=[CEPHEID]                                                           |                        |                                                                                    |                          |                                     |                              |
|               | (4)                                                                                                                                                                    | CEPH-11.09119+41.37223 | RA: 00 44 21.8856 (11.0911900d)<br>Dec: +41 22 20.03 (41.37223d)<br>Equinox: J2000 |                          | V=(?)<br>H= 18.62 I = 19.6 V = 20.6 | Reference Frame: SIMBAD      |
|               | Comments: M31 Cepheid: 11.09119 +41.37223 P= 13.155d, F160W= 18.62<br>Category=STAR<br>Description=[CEPHEID]                                                           |                        |                                                                                    |                          |                                     |                              |
|               | (5)                                                                                                                                                                    | CEPH-11.02407+41.34854 | RA: 00 44 5.7768 (11.0240700d)<br>Dec: +41 20 54.74 (41.34854d)<br>Equinox: J2000  |                          | V=(?)<br>H= 18.24 I = 19.2 V = 20.2 | Reference Frame: SIMBAD      |
|               | Comments: M31 Cepheid: 11.02407 +41.34854 P= 17.587d, F160W= 18.24<br>Category=STAR<br>Description=[CEPHEID]                                                           |                        |                                                                                    |                          |                                     |                              |
|               | (6)                                                                                                                                                                    | CEPH-11.02103+41.31618 | RA: 00 44 5.0472 (11.0210300d)<br>Dec: +41 18 58.25 (41.31618d)<br>Equinox: J2000  |                          | V=(?)<br>H= 18.02 I = 19.0 V = 20.0 | Reference Frame: SIMBAD      |
|               | Comments: M31 Cepheid: 11.02103 +41.31618 P= 19.566d, F160W= 18.02<br>Category=STAR<br>Description=[CEPHEID]                                                           |                        |                                                                                    |                          |                                     |                              |
|               | (7)                                                                                                                                                                    | GRP-11.01944+41.23304  | RA: 00 44 4.6668 (11.0194450d)<br>Dec: +41 13 58.94 (41.23304d)<br>Equinox: J2000  |                          | V=(?)<br>H= 19.09 I = 20.1 V = 21.1 | Reference Frame: SIMBAD      |
|               | Comments: Grouping of 2 M31 Cepheids: 11.01686 +41.23157 P= 13.557d, F160W= 18.55 11.02203 +41.23451 P= 10.290d, F160W= 19.0<br>Category=STAR<br>Description=[CEPHEID] |                        |                                                                                    |                          |                                     |                              |

Proposal 15146 - M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 1 (01) - A New Threshold of Preci...

| Exposures                                                                                                                    | #                                                                                                                            | Label                           | Target                         | Config,Mode,Aperture                 | Spectral Els. | Opt. Params. | Special Reqs.         | Groups                                                                                                                     | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------|--------------------------------------|---------------|--------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------|
|                                                                                                                              | 1                                                                                                                            | CEPH-11.27<br>654+41.694<br>84I | (1) CEPH-11.27654<br>+41.69484 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE FI<br>NE | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|                                                                                                                              | Comments: M31 Cepheid: 11.27654 +41.69484 P= 10.050d, F160W= 18.78                                                           |                                 |                                |                                      |               |              |                       |                                                                                                                            |                                 |       |
|                                                                                                                              | 2                                                                                                                            | CEPH-11.27<br>654+41.694<br>84I | (1) CEPH-11.27654<br>+41.69484 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE FI<br>NE | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 5.0 Secs (5 Secs)<br>[==>]      | [1]   |
|                                                                                                                              | Comments: M31 Cepheid: 11.27654 +41.69484 P= 10.050d, F160W= 18.78                                                           |                                 |                                |                                      |               |              |                       |                                                                                                                            |                                 |       |
|                                                                                                                              | 3                                                                                                                            | CEPH-11.27<br>654+41.694<br>84V | (1) CEPH-11.27654<br>+41.69484 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|                                                                                                                              | Comments: M31 Cepheid: 11.27654 +41.69484 P= 10.050d, F160W= 18.78                                                           |                                 |                                |                                      |               |              |                       |                                                                                                                            |                                 |       |
|                                                                                                                              | 4                                                                                                                            | CEPH-11.27<br>654+41.694<br>84V | (1) CEPH-11.27654<br>+41.69484 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 5.0 Secs (5 Secs)<br>[==>]      | [1]   |
|                                                                                                                              | Comments: M31 Cepheid: 11.27654 +41.69484 P= 10.050d, F160W= 18.78                                                           |                                 |                                |                                      |               |              |                       |                                                                                                                            |                                 |       |
|                                                                                                                              | 5                                                                                                                            | GRP-11.295<br>61+41.6041<br>1V  | (2) GRP-11.29561+4<br>1.60411  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
| Comments: Grouping of 2 M31 Cepheids: 11.29563 +41.60412 P= 48.472d, F160W= 17.45 11.29560 +41.60410 P= 48.447d, F160W= 17.4 |                                                                                                                              |                                 |                                |                                      |               |              |                       |                                                                                                                            |                                 |       |
|                                                                                                                              | 6                                                                                                                            | GRP-11.295<br>61+41.6041<br>1I  | (2) GRP-11.29561+4<br>1.60411  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|                                                                                                                              | Comments: Grouping of 2 M31 Cepheids: 11.29563 +41.60412 P= 48.472d, F160W= 17.45 11.29560 +41.60410 P= 48.447d, F160W= 17.4 |                                 |                                |                                      |               |              |                       |                                                                                                                            |                                 |       |
|                                                                                                                              | 7                                                                                                                            | CEPH-11.06<br>418+41.569<br>25I | (3) CEPH-11.06418<br>+41.56925 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|                                                                                                                              | Comments: M31 Cepheid: 11.06418 +41.56925 P= 78.000d, F160W= 16.04                                                           |                                 |                                |                                      |               |              |                       |                                                                                                                            |                                 |       |
|                                                                                                                              | 8                                                                                                                            | CEPH-11.06<br>418+41.569<br>25V | (3) CEPH-11.06418<br>+41.56925 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|                                                                                                                              | Comments: M31 Cepheid: 11.06418 +41.56925 P= 78.000d, F160W= 16.04                                                           |                                 |                                |                                      |               |              |                       |                                                                                                                            |                                 |       |

# Proposal 15146 - M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 1 (01) - A New Threshold of Preci...

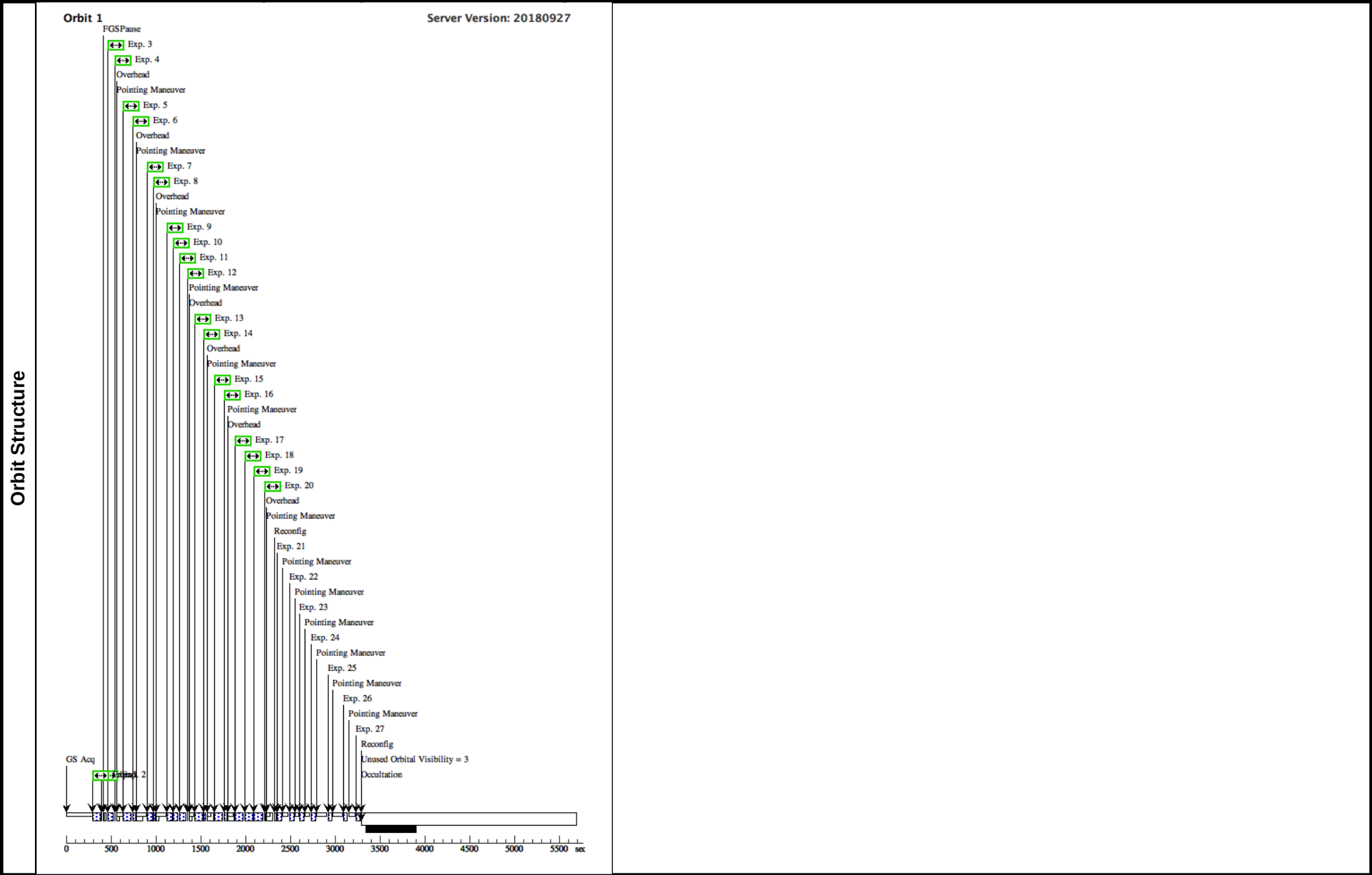
|                                                                    |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
|--------------------------------------------------------------------|---------------------------|-----------------------------|-----------------------------------|-------|----------|--------------------|--------------------------------------------------------------------------------------------------------|-------------------------------|-----|
| 9                                                                  | CEPH-11.09 119+41.372 23V | (4) CEPH-11.09119 +41.37223 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 1 (01) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.09119 +41.37223 P= 13.155d, F160W= 18.62 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 10                                                                 | CEPH-11.09 119+41.372 23V | (4) CEPH-11.09119 +41.37223 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 1 (01) | 5.0 Secs (5 Secs)<br>[==>]    | [1] |
| Comments: M31 Cepheid: 11.09119 +41.37223 P= 13.155d, F160W= 18.62 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 11                                                                 | CEPH-11.09 119+41.372 23I | (4) CEPH-11.09119 +41.37223 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 1 (01) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.09119 +41.37223 P= 13.155d, F160W= 18.62 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 12                                                                 | CEPH-11.09 119+41.372 23I | (4) CEPH-11.09119 +41.37223 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 1 (01) | 5.0 Secs (5 Secs)<br>[==>]    | [1] |
| Comments: M31 Cepheid: 11.09119 +41.37223 P= 13.155d, F160W= 18.62 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 13                                                                 | CEPH-11.02 407+41.348 54I | (5) CEPH-11.02407 +41.34854 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 1 (01) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.02407 +41.34854 P= 17.587d, F160W= 18.24 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 14                                                                 | CEPH-11.02 407+41.348 54V | (5) CEPH-11.02407 +41.34854 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 1 (01) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.02407 +41.34854 P= 17.587d, F160W= 18.24 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 15                                                                 | CEPH-11.02 103+41.316 18V | (6) CEPH-11.02103 +41.31618 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 1 (01) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.02103 +41.31618 P= 19.566d, F160W= 18.02 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 16                                                                 | CEPH-11.02 103+41.316 18I | (6) CEPH-11.02103 +41.31618 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 1 (01) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.02103 +41.31618 P= 19.566d, F160W= 18.02 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |

# Proposal 15146 - M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 1 (01) - A New Threshold of Preci...

|                                                                                                                              |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------|--------------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 17                                                                                                                           | GRP-11.019<br>44+41.2330<br>4I  | (7) GRP-11.01944+4<br>1.23304  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.01686 +41.23157 P= 13.557d, F160W= 18.55 11.02203 +41.23451 P= 10.290d, F160W= 19.0 |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 18                                                                                                                           | GRP-11.019<br>44+41.2330<br>4I  | (7) GRP-11.01944+4<br>1.23304  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.01686 +41.23157 P= 13.557d, F160W= 18.55 11.02203 +41.23451 P= 10.290d, F160W= 19.0 |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 19                                                                                                                           | GRP-11.019<br>44+41.2330<br>4V  | (7) GRP-11.01944+4<br>1.23304  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.01686 +41.23157 P= 13.557d, F160W= 18.55 11.02203 +41.23451 P= 10.290d, F160W= 19.0 |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 20                                                                                                                           | GRP-11.019<br>44+41.2330<br>4V  | (7) GRP-11.01944+4<br>1.23304  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.01686 +41.23157 P= 13.557d, F160W= 18.55 11.02203 +41.23451 P= 10.290d, F160W= 19.0 |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 21                                                                                                                           | GRP-11.019<br>44+41.2330<br>4H  | (7) GRP-11.01944+4<br>1.23304  | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.01686 +41.23157 P= 13.557d, F160W= 18.55 11.02203 +41.23451 P= 10.290d, F160W= 19.0 |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 22                                                                                                                           | CEPH-11.02<br>103+41.316<br>18H | (6) CEPH-11.02103<br>+41.31618 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.02103 +41.31618 P= 19.566d, F160W= 18.02                                                           |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 23                                                                                                                           | CEPH-11.02<br>407+41.348<br>54H | (5) CEPH-11.02407<br>+41.34854 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.02407 +41.34854 P= 17.587d, F160W= 18.24                                                           |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 24                                                                                                                           | CEPH-11.09<br>119+41.372<br>23H | (4) CEPH-11.09119<br>+41.37223 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.09119 +41.37223 P= 13.155d, F160W= 18.62                                                           |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |

Proposal 15146 - M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 1 (01) - A New Threshold of Preci...

|                                                                                                                              |                                 |                                |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------|----------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 25                                                                                                                           | CEPH-11.06<br>418+41.569<br>25H | (3) CEPH-11.06418<br>+41.56925 | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=6;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 15.460562 Secs (15.461 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.06418 +41.56925 P= 78.000d, F160W= 16.04                                                           |                                 |                                |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 26                                                                                                                           | GRP-11.295<br>61+41.6041<br>1H  | (2) GRP-11.29561+4<br>1.60411  | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=6;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 15.460562 Secs (15.461 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.29563 +41.60412 P= 48.472d, F160W= 17.45 11.29560 +41.60410 P= 48.447d, F160W= 17.4 |                                 |                                |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 27                                                                                                                           | CEPH-11.27<br>654+41.694<br>84H | (1) CEPH-11.27654<br>+41.69484 | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 1 (01) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.27654 +41.69484 P= 10.050d, F160W= 18.78                                                           |                                 |                                |                                  |       |                                 |                       |                                                                                                                            |                                       |     |



| Visit         | Proposal 15146, M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02), completed                                                               |                        |                                                                                    |                          |                                     | Mon Nov 05 18:01:59 GMT 2018 |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------|--------------------------|-------------------------------------|------------------------------|
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS<br>Special Requirements: SAME ORIENT AS 01; AFTER 01 BY 6 D TO 8 D              |                        |                                                                                    |                          |                                     |                              |
| Fixed Targets | #                                                                                                                                                                      | Name                   | Target Coordinates                                                                 | Targ. Coord. Corrections | Fluxes                              | Miscellaneous                |
|               | (1)                                                                                                                                                                    | CEPH-11.27654+41.69484 | RA: 00 45 6.3696 (11.2765400d)<br>Dec: +41 41 41.42 (41.69484d)<br>Equinox: J2000  |                          | V=(?)<br>H= 18.78 I = 19.8 V = 20.8 | Reference Frame: SIMBAD      |
|               | Comments: M31 Cepheid: 11.27654 +41.69484 P= 10.050d, F160W= 18.78<br>Category=STAR<br>Description=[CEPHEID]                                                           |                        |                                                                                    |                          |                                     |                              |
|               | (2)                                                                                                                                                                    | GRP-11.29561+41.60411  | RA: 00 45 10.9476 (11.2956150d)<br>Dec: +41 36 14.80 (41.60411d)<br>Equinox: J2000 |                          | V=(?)<br>H= 17.45 I = 18.5 V = 19.5 | Reference Frame: SIMBAD      |
|               | Comments: Grouping of 2 M31 Cepheids: 11.29563 +41.60412 P= 48.472d, F160W= 17.45 11.29560 +41.60410 P= 48.447d, F160W= 17.4<br>Category=STAR<br>Description=[CEPHEID] |                        |                                                                                    |                          |                                     |                              |
|               | (3)                                                                                                                                                                    | CEPH-11.06418+41.56925 | RA: 00 44 15.4032 (11.0641800d)<br>Dec: +41 34 9.30 (41.56925d)<br>Equinox: J2000  |                          | V=(?)<br>H= 16.04 I = 17.0 V = 18.0 | Reference Frame: SIMBAD      |
|               | Comments: M31 Cepheid: 11.06418 +41.56925 P= 78.000d, F160W= 16.04<br>Category=STAR<br>Description=[CEPHEID]                                                           |                        |                                                                                    |                          |                                     |                              |
|               | (4)                                                                                                                                                                    | CEPH-11.09119+41.37223 | RA: 00 44 21.8856 (11.0911900d)<br>Dec: +41 22 20.03 (41.37223d)<br>Equinox: J2000 |                          | V=(?)<br>H= 18.62 I = 19.6 V = 20.6 | Reference Frame: SIMBAD      |
|               | Comments: M31 Cepheid: 11.09119 +41.37223 P= 13.155d, F160W= 18.62<br>Category=STAR<br>Description=[CEPHEID]                                                           |                        |                                                                                    |                          |                                     |                              |
|               | (5)                                                                                                                                                                    | CEPH-11.02407+41.34854 | RA: 00 44 5.7768 (11.0240700d)<br>Dec: +41 20 54.74 (41.34854d)<br>Equinox: J2000  |                          | V=(?)<br>H= 18.24 I = 19.2 V = 20.2 | Reference Frame: SIMBAD      |
|               | Comments: M31 Cepheid: 11.02407 +41.34854 P= 17.587d, F160W= 18.24<br>Category=STAR<br>Description=[CEPHEID]                                                           |                        |                                                                                    |                          |                                     |                              |
|               | (6)                                                                                                                                                                    | CEPH-11.02103+41.31618 | RA: 00 44 5.0472 (11.0210300d)<br>Dec: +41 18 58.25 (41.31618d)<br>Equinox: J2000  |                          | V=(?)<br>H= 18.02 I = 19.0 V = 20.0 | Reference Frame: SIMBAD      |
|               | Comments: M31 Cepheid: 11.02103 +41.31618 P= 19.566d, F160W= 18.02<br>Category=STAR<br>Description=[CEPHEID]                                                           |                        |                                                                                    |                          |                                     |                              |
|               | (7)                                                                                                                                                                    | GRP-11.01944+41.23304  | RA: 00 44 4.6668 (11.0194450d)<br>Dec: +41 13 58.94 (41.23304d)<br>Equinox: J2000  |                          | V=(?)<br>H= 19.09 I = 20.1 V = 21.1 | Reference Frame: SIMBAD      |
|               | Comments: Grouping of 2 M31 Cepheids: 11.01686 +41.23157 P= 13.557d, F160W= 18.55 11.02203 +41.23451 P= 10.290d, F160W= 19.0<br>Category=STAR<br>Description=[CEPHEID] |                        |                                                                                    |                          |                                     |                              |



Proposal 15146 - M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) - A New Threshold of Preci...

| Exposures                                                                                                                    | #                                                                                                                            | Label                  | Target             | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.     | Groups                                                                                                 | Exp. Time (Total)/[Actual Dur.] | Orbit |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------|-----------------------------------|---------------|--------------|-------------------|--------------------------------------------------------------------------------------------------------|---------------------------------|-------|
|                                                                                                                              | 1                                                                                                                            | CEPH-11.27654+41.69484 | (1) CEPH-11.27654  | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE FINE | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|                                                                                                                              | Comments: M31 Cepheid: 11.27654 +41.69484 P= 10.050d, F160W= 18.78                                                           |                        |                    |                                   |               |              |                   |                                                                                                        |                                 |       |
|                                                                                                                              | 2                                                                                                                            | CEPH-11.27654+41.69484 | (1) CEPH-11.27654  | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE FINE | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 5.0 Secs (5 Secs)<br>[==>]      | [1]   |
|                                                                                                                              | Comments: M31 Cepheid: 11.27654 +41.69484 P= 10.050d, F160W= 18.78                                                           |                        |                    |                                   |               |              |                   |                                                                                                        |                                 |       |
|                                                                                                                              | 3                                                                                                                            | CEPH-11.27654+41.69484 | (1) CEPH-11.27654  | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|                                                                                                                              | Comments: M31 Cepheid: 11.27654 +41.69484 P= 10.050d, F160W= 18.78                                                           |                        |                    |                                   |               |              |                   |                                                                                                        |                                 |       |
|                                                                                                                              | 4                                                                                                                            | CEPH-11.27654+41.69484 | (1) CEPH-11.27654  | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 5.0 Secs (5 Secs)<br>[==>]      | [1]   |
|                                                                                                                              | Comments: M31 Cepheid: 11.27654 +41.69484 P= 10.050d, F160W= 18.78                                                           |                        |                    |                                   |               |              |                   |                                                                                                        |                                 |       |
|                                                                                                                              | 5                                                                                                                            | GRP-11.29561+41.60411  | (2) GRP-11.29561+4 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
| Comments: Grouping of 2 M31 Cepheids: 11.29563 +41.60412 P= 48.472d, F160W= 17.45 11.29560 +41.60410 P= 48.447d, F160W= 17.4 |                                                                                                                              |                        |                    |                                   |               |              |                   |                                                                                                        |                                 |       |
|                                                                                                                              | 6                                                                                                                            | GRP-11.29561+41.60411  | (2) GRP-11.29561+4 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|                                                                                                                              | Comments: Grouping of 2 M31 Cepheids: 11.29563 +41.60412 P= 48.472d, F160W= 17.45 11.29560 +41.60410 P= 48.447d, F160W= 17.4 |                        |                    |                                   |               |              |                   |                                                                                                        |                                 |       |
|                                                                                                                              | 7                                                                                                                            | CEPH-11.06418+41.56925 | (3) CEPH-11.06418  | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
| Comments: M31 Cepheid: 11.06418 +41.56925 P= 78.000d, F160W= 16.04                                                           |                                                                                                                              |                        |                    |                                   |               |              |                   |                                                                                                        |                                 |       |
|                                                                                                                              | 8                                                                                                                            | CEPH-11.06418+41.56925 | (3) CEPH-11.06418  | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|                                                                                                                              | Comments: M31 Cepheid: 11.06418 +41.56925 P= 78.000d, F160W= 16.04                                                           |                        |                    |                                   |               |              |                   |                                                                                                        |                                 |       |

Proposal 15146 - M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) - A New Threshold of Preci...

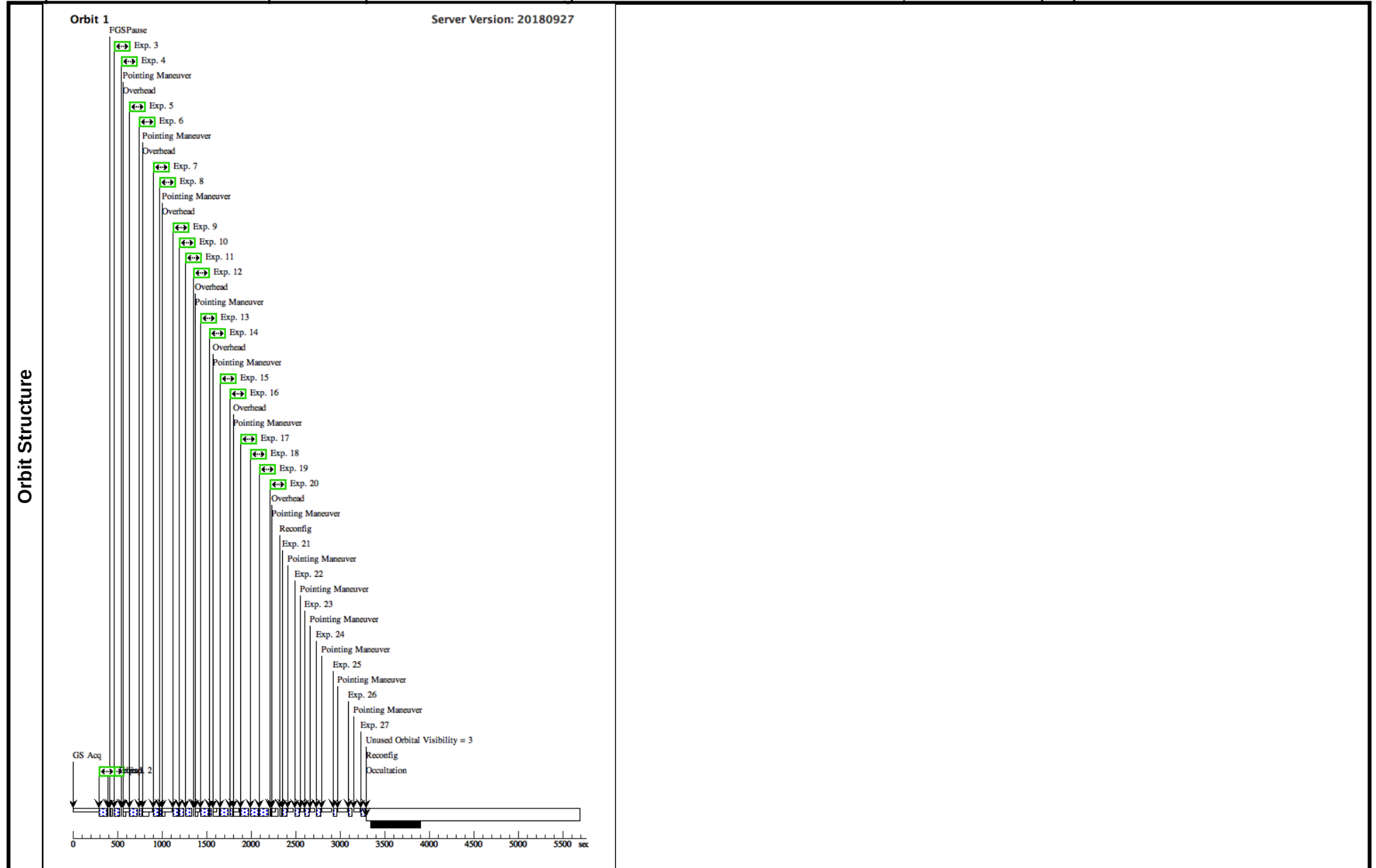
|                                                                    |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
|--------------------------------------------------------------------|---------------------------|-----------------------------|-----------------------------------|-------|----------|--------------------|--------------------------------------------------------------------------------------------------------|-------------------------------|-----|
| 9                                                                  | CEPH-11.09 119+41.372 23V | (4) CEPH-11.09119 +41.37223 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.09119 +41.37223 P= 13.155d, F160W= 18.62 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 10                                                                 | CEPH-11.09 119+41.372 23V | (4) CEPH-11.09119 +41.37223 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 5.0 Secs (5 Secs)<br>[==>]    | [1] |
| Comments: M31 Cepheid: 11.09119 +41.37223 P= 13.155d, F160W= 18.62 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 11                                                                 | CEPH-11.09 119+41.372 23I | (4) CEPH-11.09119 +41.37223 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.09119 +41.37223 P= 13.155d, F160W= 18.62 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 12                                                                 | CEPH-11.09 119+41.372 23I | (4) CEPH-11.09119 +41.37223 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 5.0 Secs (5 Secs)<br>[==>]    | [1] |
| Comments: M31 Cepheid: 11.09119 +41.37223 P= 13.155d, F160W= 18.62 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 13                                                                 | CEPH-11.02 407+41.348 54I | (5) CEPH-11.02407 +41.34854 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.02407 +41.34854 P= 17.587d, F160W= 18.24 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 14                                                                 | CEPH-11.02 407+41.348 54V | (5) CEPH-11.02407 +41.34854 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.02407 +41.34854 P= 17.587d, F160W= 18.24 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 15                                                                 | CEPH-11.02 103+41.316 18V | (6) CEPH-11.02103 +41.31618 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.02103 +41.31618 P= 19.566d, F160W= 18.02 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |
| 16                                                                 | CEPH-11.02 103+41.316 18I | (6) CEPH-11.02103 +41.31618 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.02103 +41.31618 P= 19.566d, F160W= 18.02 |                           |                             |                                   |       |          |                    |                                                                                                        |                               |     |

# Proposal 15146 - M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) - A New Threshold of Preci...

|                                                                                                                              |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------|--------------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 17                                                                                                                           | GRP-11.019<br>44+41.2330<br>4I  | (7) GRP-11.01944+4<br>1.23304  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 2 (02) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.01686 +41.23157 P= 13.557d, F160W= 18.55 11.02203 +41.23451 P= 10.290d, F160W= 19.0 |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 18                                                                                                                           | GRP-11.019<br>44+41.2330<br>4I  | (7) GRP-11.01944+4<br>1.23304  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 2 (02) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.01686 +41.23157 P= 13.557d, F160W= 18.55 11.02203 +41.23451 P= 10.290d, F160W= 19.0 |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 19                                                                                                                           | GRP-11.019<br>44+41.2330<br>4V  | (7) GRP-11.01944+4<br>1.23304  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 2 (02) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.01686 +41.23157 P= 13.557d, F160W= 18.55 11.02203 +41.23451 P= 10.290d, F160W= 19.0 |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 20                                                                                                                           | GRP-11.019<br>44+41.2330<br>4V  | (7) GRP-11.01944+4<br>1.23304  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 2 (02) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.01686 +41.23157 P= 13.557d, F160W= 18.55 11.02203 +41.23451 P= 10.290d, F160W= 19.0 |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 21                                                                                                                           | GRP-11.019<br>44+41.2330<br>4H  | (7) GRP-11.01944+4<br>1.23304  | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 2 (02) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.01686 +41.23157 P= 13.557d, F160W= 18.55 11.02203 +41.23451 P= 10.290d, F160W= 19.0 |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 22                                                                                                                           | CEPH-11.02<br>103+41.316<br>18H | (6) CEPH-11.02103<br>+41.31618 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 2 (02) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.02103 +41.31618 P= 19.566d, F160W= 18.02                                                           |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 23                                                                                                                           | CEPH-11.02<br>407+41.348<br>54H | (5) CEPH-11.02407<br>+41.34854 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 2 (02) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.02407 +41.34854 P= 17.587d, F160W= 18.24                                                           |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 24                                                                                                                           | CEPH-11.09<br>119+41.372<br>23H | (4) CEPH-11.09119<br>+41.37223 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 2 (02) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.09119 +41.37223 P= 13.155d, F160W= 18.62                                                           |                                 |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |

Proposal 15146 - M31 Cepheid Sequence 1 starting with CEPH-11.27654+41.69484; Execution 2 (02) - A New Threshold of Preci...

|                                                                                                                              |                                 |                                |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------|----------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 25                                                                                                                           | CEPH-11.06<br>418+41.569<br>25H | (3) CEPH-11.06418<br>+41.56925 | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=6;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 2 (02) | 15.460562 Secs (15.461 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.06418 +41.56925 P= 78.000d, F160W= 16.04                                                           |                                 |                                |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 26                                                                                                                           | GRP-11.295<br>61+41.6041<br>1H  | (2) GRP-11.29561+4<br>1.60411  | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=6;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 2 (02) | 15.460562 Secs (15.461 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.29563 +41.60412 P= 48.472d, F160W= 17.45 11.29560 +41.60410 P= 48.447d, F160W= 17.4 |                                 |                                |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 27                                                                                                                           | CEPH-11.27<br>654+41.694<br>84H | (1) CEPH-11.27654<br>+41.69484 | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 1 startin<br>g with CEPH-11.276<br>54+41.69484; Execu<br>tion 2 (02) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.27654 +41.69484 P= 10.050d, F160W= 18.78                                                           |                                 |                                |                                  |       |                                 |                       |                                                                                                                            |                                       |     |



|       |                                                                                                                                                                                                                                                |                              |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Visit | <p>Proposal 15146, M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: (none)</p> | Mon Nov 05 18:01:59 GMT 2018 |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|



Proposal 15146 - M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) - A New Threshold of Preci...

| Exposures | #                                                                                                                            | Label                  | Target                       | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.      | Groups                                                                                                 | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------|-----------------------------------|---------------|--------------|--------------------|--------------------------------------------------------------------------------------------------------|---------------------------------|-------|
|           | 1                                                                                                                            | CEPH-11.39343+41.93733 | (8) CEPH-11.39343 +41.93733  | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE FI NE | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.39343 +41.93733 P= 15.418d, F160W= 18.30                                                           |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 2                                                                                                                            | CEPH-11.39333V         | (8) CEPH-11.39343 +41.93733  | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.39343 +41.93733 P= 15.418d, F160W= 18.30                                                           |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 3                                                                                                                            | GRP-11.41291+41.90711V | (9) GRP-11.41291+4 1.90711   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 11.41028 +41.90369 P= 10.958d, F160W= 19.08 11.41555 +41.91052 P= 11.167d, F160W= 18.7 |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 4                                                                                                                            | GRP-11.41291+41.90711V | (9) GRP-11.41291+4 1.90711   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 11.41028 +41.90369 P= 10.958d, F160W= 19.08 11.41555 +41.91052 P= 11.167d, F160W= 18.7 |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 5                                                                                                                            | GRP-11.41291+41.90711I | (9) GRP-11.41291+4 1.90711   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 11.41028 +41.90369 P= 10.958d, F160W= 19.08 11.41555 +41.91052 P= 11.167d, F160W= 18.7 |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 6                                                                                                                            | GRP-11.41291+41.90711I | (9) GRP-11.41291+4 1.90711   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 11.41028 +41.90369 P= 10.958d, F160W= 19.08 11.41555 +41.91052 P= 11.167d, F160W= 18.7 |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 7                                                                                                                            | CEPH-11.45441          | (10) CEPH-11.45542 +41.86441 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.45542 +41.86441 P= 16.101d, F160W= 18.46                                                           |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 8                                                                                                                            | CEPH-11.4541V          | (10) CEPH-11.45542 +41.86441 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.45542 +41.86441 P= 16.101d, F160W= 18.46                                                           |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |



# Proposal 15146 - M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) - A New Threshold of Preci...

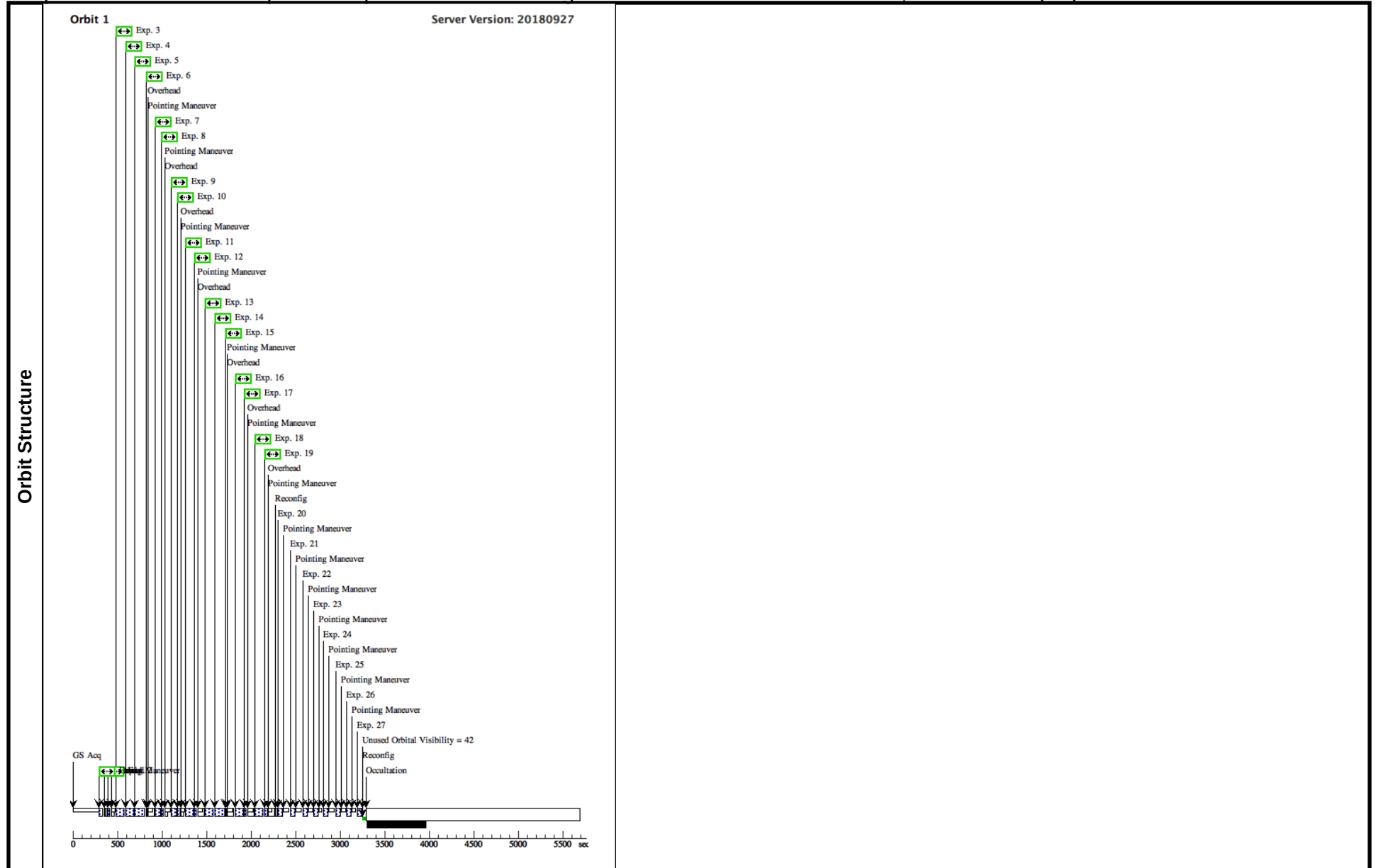
|                                                                                                                              |                                                                                          |       |          |                    |                                                                                                        |                               |     |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------|----------|--------------------|--------------------------------------------------------------------------------------------------------|-------------------------------|-----|
| 9                                                                                                                            | CEPH-11.34 (11) CEPH-11.34599 WFC3/UVIS, ACCUM, 599+41.845 +41.84588 UVIS2-C512C-SUB 88V | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.34599 +41.84588 P= 16.458d, F160W= 18.36                                                           |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 10                                                                                                                           | CEPH-11.34 (11) CEPH-11.34599 WFC3/UVIS, ACCUM, 599+41.845 +41.84588 UVIS2-C512C-SUB 88I | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.34599 +41.84588 P= 16.458d, F160W= 18.36                                                           |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 11                                                                                                                           | CEPH-11.36 (12) CEPH-11.36712 WFC3/UVIS, ACCUM, 712+41.837 +41.83738 UVIS2-C1K1C-SUB 38I | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.36712 +41.83738 P= 24.200d, F160W= 17.65                                                           |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 12                                                                                                                           | CEPH-11.36 (12) CEPH-11.36712 WFC3/UVIS, ACCUM, 712+41.837 +41.83738 UVIS2-C1K1C-SUB 38V | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.36712 +41.83738 P= 24.200d, F160W= 17.65                                                           |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 13                                                                                                                           | GRP-11.411 (13) GRP-11.41161+ WFC3/UVIS, ACCUM, 61+41.8085 41.80854 UVIS2-C1K1C-SUB 4V   | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.40777 +41.80889 P= 12.809d, F160W= 18.55 11.41544 +41.80819 P= 13.097d, F160W= 18.6 |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 14                                                                                                                           | GRP-11.411 (13) GRP-11.41161+ WFC3/UVIS, ACCUM, 61+41.8085 41.80854 UVIS2-C1K1C-SUB 4I   | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.40777 +41.80889 P= 12.809d, F160W= 18.55 11.41544 +41.80819 P= 13.097d, F160W= 18.6 |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 15                                                                                                                           | GRP-11.411 (13) GRP-11.41161+ WFC3/UVIS, ACCUM, 61+41.8085 41.80854 UVIS2-C1K1C-SUB 4I   | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.40777 +41.80889 P= 12.809d, F160W= 18.55 11.41544 +41.80819 P= 13.097d, F160W= 18.6 |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 16                                                                                                                           | CEPH-11.35 (14) CEPH-11.35106 WFC3/UVIS, ACCUM, 106+41.735 +41.73513 UVIS2-C1K1C-SUB 13I | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.35106 +41.73513 P= 20.226d, F160W= 18.00                                                           |                                                                                          |       |          |                    |                                                                                                        |                               |     |

# Proposal 15146 - M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) - A New Threshold of Preci...

|                                                                                                                              |                                                        |                                   |       |                           |                    |                                                                                                        |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------|-------|---------------------------|--------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 17                                                                                                                           | CEPH-11.35 106+41.735 13V (14) CEPH-11.35106 +41.73513 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W | FLASH=12                  | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: M31 Cepheid: 11.35106 +41.73513 P= 20.226d, F160W= 18.00                                                           |                                                        |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 18                                                                                                                           | GRP-11.329 17+41.6506 0V (15) GRP-11.32917+ 41.65060   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W | FLASH=12                  | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.32627 +41.65058 P= 12.547d, F160W= 18.96 11.33207 +41.65061 P= 26.590d, F160W= 17.8 |                                                        |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 19                                                                                                                           | GRP-11.329 17+41.6506 0I (15) GRP-11.32917+ 41.65060   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W | FLASH=12                  | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.32627 +41.65058 P= 12.547d, F160W= 18.96 11.33207 +41.65061 P= 26.590d, F160W= 17.8 |                                                        |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 20                                                                                                                           | GRP-11.329 17+41.6506 0H (15) GRP-11.32917+ 41.65060   | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.32627 +41.65058 P= 12.547d, F160W= 18.96 11.33207 +41.65061 P= 26.590d, F160W= 17.8 |                                                        |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 21                                                                                                                           | CEPH-11.35 106+41.735 13H (14) CEPH-11.35106 +41.73513 | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.35106 +41.73513 P= 20.226d, F160W= 18.00                                                           |                                                        |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 22                                                                                                                           | GRP-11.411 61+41.8085 4H (13) GRP-11.41161+ 41.80854   | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.40777 +41.80889 P= 12.809d, F160W= 18.55 11.41544 +41.80819 P= 13.097d, F160W= 18.6 |                                                        |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 23                                                                                                                           | CEPH-11.36 712+41.837 38H (12) CEPH-11.36712 +41.83738 | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.36712 +41.83738 P= 24.200d, F160W= 17.65                                                           |                                                        |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 24                                                                                                                           | CEPH-11.34 599+41.845 88H (11) CEPH-11.34599 +41.84588 | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.34599 +41.84588 P= 16.458d, F160W= 18.36                                                           |                                                        |                                   |       |                           |                    |                                                                                                        |                                       |     |

Proposal 15146 - M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 1 (03) - A New Threshold of Preci...

|                                                                                                                              |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 25                                                                                                                           | CEPH-11.45<br>542+41.864<br>41H | (10) CEPH-11.45542<br>+41.86441 | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 2 startin<br>g with CEPH-11.393<br>43+41.93733; Execu<br>tion 1 (03) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.45542 +41.86441 P= 16.101d, F160W= 18.46                                                           |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 26                                                                                                                           | GRP-11.412<br>91+41.9071<br>1H  | (9) GRP-11.41291+4<br>1.90711   | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 2 startin<br>g with CEPH-11.393<br>43+41.93733; Execu<br>tion 1 (03) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.41028 +41.90369 P= 10.958d, F160W= 19.08 11.41555 +41.91052 P= 11.167d, F160W= 18.7 |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 27                                                                                                                           | CEPH-11.39<br>343+41.937<br>33H | (8) CEPH-11.39343<br>+41.93733  | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 2 startin<br>g with CEPH-11.393<br>43+41.93733; Execu<br>tion 1 (03) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.39343 +41.93733 P= 15.418d, F160W= 18.30                                                           |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |



|       |                                                                                                                                                                                                                                                                                   |                              |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Visit | <p>Proposal 15146, M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: SAME ORIENT AS 03; AFTER 03 BY 6 D TO 8 D</p> | Mon Nov 05 18:01:59 GMT 2018 |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|



Proposal 15146 - M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) - A New Threshold of Preci...

| Exposures | #                                                                                                                            | Label                  | Target                       | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.      | Groups                                                                                                 | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------|-----------------------------------|---------------|--------------|--------------------|--------------------------------------------------------------------------------------------------------|---------------------------------|-------|
|           | 1                                                                                                                            | CEPH-11.39343+41.93733 | (8) CEPH-11.39343 +41.93733  | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE FI NE | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.39343 +41.93733 P= 15.418d, F160W= 18.30                                                           |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 2                                                                                                                            | CEPH-11.39333V         | (8) CEPH-11.39343 +41.93733  | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.39343 +41.93733 P= 15.418d, F160W= 18.30                                                           |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 3                                                                                                                            | GRP-11.41291+41.90711V | (9) GRP-11.41291+4 1.90711   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 11.41028 +41.90369 P= 10.958d, F160W= 19.08 11.41555 +41.91052 P= 11.167d, F160W= 18.7 |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 4                                                                                                                            | GRP-11.41291+41.90711V | (9) GRP-11.41291+4 1.90711   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 11.41028 +41.90369 P= 10.958d, F160W= 19.08 11.41555 +41.91052 P= 11.167d, F160W= 18.7 |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 5                                                                                                                            | GRP-11.41291+41.90711I | (9) GRP-11.41291+4 1.90711   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 11.41028 +41.90369 P= 10.958d, F160W= 19.08 11.41555 +41.91052 P= 11.167d, F160W= 18.7 |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 6                                                                                                                            | GRP-11.41291+41.90711I | (9) GRP-11.41291+4 1.90711   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 11.41028 +41.90369 P= 10.958d, F160W= 19.08 11.41555 +41.91052 P= 11.167d, F160W= 18.7 |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 7                                                                                                                            | CEPH-11.45441          | (10) CEPH-11.45542 +41.86441 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.45542 +41.86441 P= 16.101d, F160W= 18.46                                                           |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 8                                                                                                                            | CEPH-11.4541V          | (10) CEPH-11.45542 +41.86441 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.45542 +41.86441 P= 16.101d, F160W= 18.46                                                           |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |

# Proposal 15146 - M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) - A New Threshold of Preci...

|                                                                                                                              |                                                                                          |       |          |                    |                                                                                                        |                               |     |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------|----------|--------------------|--------------------------------------------------------------------------------------------------------|-------------------------------|-----|
| 9                                                                                                                            | CEPH-11.34 (11) CEPH-11.34599 WFC3/UVIS, ACCUM, 599+41.845 +41.84588 UVIS2-C512C-SUB 88V | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.34599 +41.84588 P= 16.458d, F160W= 18.36                                                           |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 10                                                                                                                           | CEPH-11.34 (11) CEPH-11.34599 WFC3/UVIS, ACCUM, 599+41.845 +41.84588 UVIS2-C512C-SUB 88I | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.34599 +41.84588 P= 16.458d, F160W= 18.36                                                           |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 11                                                                                                                           | CEPH-11.36 (12) CEPH-11.36712 WFC3/UVIS, ACCUM, 712+41.837 +41.83738 UVIS2-C1K1C-SUB 38I | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.36712 +41.83738 P= 24.200d, F160W= 17.65                                                           |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 12                                                                                                                           | CEPH-11.36 (12) CEPH-11.36712 WFC3/UVIS, ACCUM, 712+41.837 +41.83738 UVIS2-C1K1C-SUB 38V | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.36712 +41.83738 P= 24.200d, F160W= 17.65                                                           |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 13                                                                                                                           | GRP-11.411 (13) GRP-11.41161+ WFC3/UVIS, ACCUM, 61+41.8085 41.80854 UVIS2-C1K1C-SUB 4V   | F555W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.40777 +41.80889 P= 12.809d, F160W= 18.55 11.41544 +41.80819 P= 13.097d, F160W= 18.6 |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 14                                                                                                                           | GRP-11.411 (13) GRP-11.41161+ WFC3/UVIS, ACCUM, 61+41.8085 41.80854 UVIS2-C1K1C-SUB 4I   | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.40777 +41.80889 P= 12.809d, F160W= 18.55 11.41544 +41.80819 P= 13.097d, F160W= 18.6 |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 15                                                                                                                           | GRP-11.411 (13) GRP-11.41161+ WFC3/UVIS, ACCUM, 61+41.8085 41.80854 UVIS2-C1K1C-SUB 4I   | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.40777 +41.80889 P= 12.809d, F160W= 18.55 11.41544 +41.80819 P= 13.097d, F160W= 18.6 |                                                                                          |       |          |                    |                                                                                                        |                               |     |
| 16                                                                                                                           | CEPH-11.35 (14) CEPH-11.35106 WFC3/UVIS, ACCUM, 106+41.735 +41.73513 UVIS2-C1K1C-SUB 13I | F814W | FLASH=12 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.35106 +41.73513 P= 20.226d, F160W= 18.00                                                           |                                                                                          |       |          |                    |                                                                                                        |                               |     |

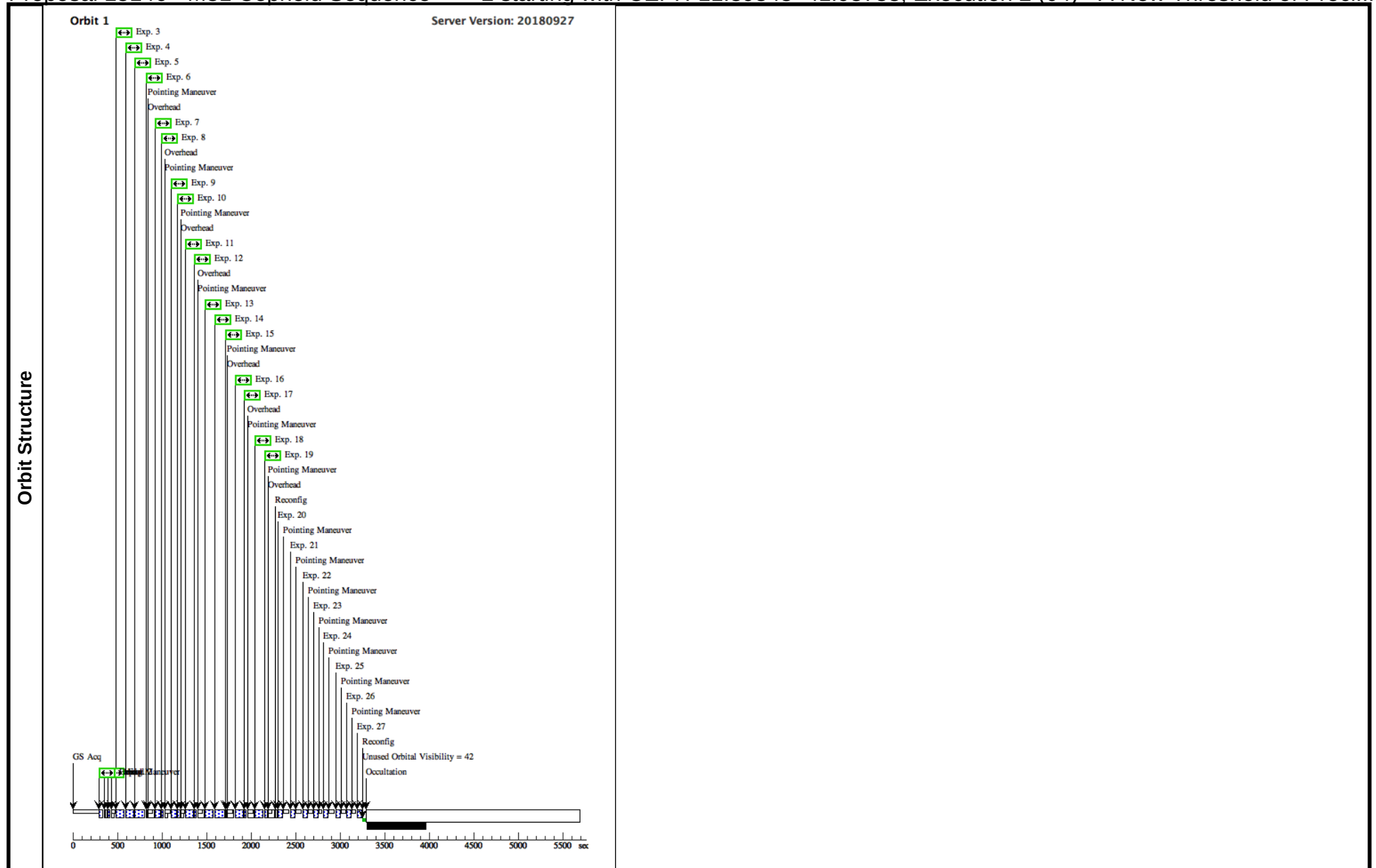


# Proposal 15146 - M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) - A New Threshold of Preci...

|                                                                                                                              |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------|-----------------------------------|-------|---------------------------|--------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 17                                                                                                                           | CEPH-11.35 106+41.735 13V | (14) CEPH-11.35106 +41.73513 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W | FLASH=12                  | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: M31 Cepheid: 11.35106 +41.73513 P= 20.226d, F160W= 18.00                                                           |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 18                                                                                                                           | GRP-11.329 17+41.6506 0V  | (15) GRP-11.32917+ 41.65060  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W | FLASH=12                  | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.32627 +41.65058 P= 12.547d, F160W= 18.96 11.33207 +41.65061 P= 26.590d, F160W= 17.8 |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 19                                                                                                                           | GRP-11.329 17+41.6506 0I  | (15) GRP-11.32917+ 41.65060  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W | FLASH=12                  | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.32627 +41.65058 P= 12.547d, F160W= 18.96 11.33207 +41.65061 P= 26.590d, F160W= 17.8 |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 20                                                                                                                           | GRP-11.329 17+41.6506 0H  | (15) GRP-11.32917+ 41.65060  | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.32627 +41.65058 P= 12.547d, F160W= 18.96 11.33207 +41.65061 P= 26.590d, F160W= 17.8 |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 21                                                                                                                           | CEPH-11.35 106+41.735 13H | (14) CEPH-11.35106 +41.73513 | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.35106 +41.73513 P= 20.226d, F160W= 18.00                                                           |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 22                                                                                                                           | GRP-11.411 61+41.8085 4H  | (13) GRP-11.41161+ 41.80854  | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.40777 +41.80889 P= 12.809d, F160W= 18.55 11.41544 +41.80819 P= 13.097d, F160W= 18.6 |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 23                                                                                                                           | CEPH-11.36 712+41.837 38H | (12) CEPH-11.36712 +41.83738 | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.36712 +41.83738 P= 24.200d, F160W= 17.65                                                           |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 24                                                                                                                           | CEPH-11.34 599+41.845 88H | (11) CEPH-11.34599 +41.84588 | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.34599 +41.84588 P= 16.458d, F160W= 18.36                                                           |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |

Proposal 15146 - M31 Cepheid Sequence 2 starting with CEPH-11.39343+41.93733; Execution 2 (04) - A New Threshold of Preci...

|                                                                                                                              |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 25                                                                                                                           | CEPH-11.45<br>542+41.864<br>41H | (10) CEPH-11.45542<br>+41.86441 | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 2 startin<br>g with CEPH-11.393<br>43+41.93733; Execu<br>tion 2 (04) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.45542 +41.86441 P= 16.101d, F160W= 18.46                                                           |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 26                                                                                                                           | GRP-11.412<br>91+41.9071<br>1H  | (9) GRP-11.41291+4<br>1.90711   | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 2 startin<br>g with CEPH-11.393<br>43+41.93733; Execu<br>tion 2 (04) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.41028 +41.90369 P= 10.958d, F160W= 19.08 11.41555 +41.91052 P= 11.167d, F160W= 18.7 |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 27                                                                                                                           | CEPH-11.39<br>343+41.937<br>33H | (8) CEPH-11.39343<br>+41.93733  | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 2 startin<br>g with CEPH-11.393<br>43+41.93733; Execu<br>tion 2 (04) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.39343 +41.93733 P= 15.418d, F160W= 18.30                                                           |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |



|       |                                                                                                                                                                                                                                                                                                                                                                                                              |                              |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Visit | <div data-bbox="142 100 2005 129"><div>Proposal 15146, M31 Cepheid Sequence      3 starting with CEPH-11.35459+41.70886; Execution 1</div><div>(05), completed</div></div> <div data-bbox="142 154 2005 183">Diagnostic Status: No Diagnostics</div> <div data-bbox="142 183 2005 212">Scientific Instruments: WFC3/IR, WFC3/UVIS</div> <div data-bbox="142 212 2005 241">Special Requirements: (none)</div> | Mon Nov 05 18:01:59 GMT 2018 |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|



Proposal 15146 - M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) - A New Threshold of Preci...

| Exposures | #                                                                                                                            | Label                  | Target                       | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.     | Groups                                                                                                 | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------|-----------------------------------|---------------|--------------|-------------------|--------------------------------------------------------------------------------------------------------|---------------------------------|-------|
|           | 1                                                                                                                            | CEPH-11.35459+41.70886 | (16) CEPH-11.35459 +41.70886 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE FINE | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.35459 +41.70886 P= 16.576d, F160W= 18.45                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 2                                                                                                                            | CEPH-11.35459+41.70886 | (16) CEPH-11.35459 +41.70886 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.35459 +41.70886 P= 16.576d, F160W= 18.45                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 3                                                                                                                            | CEPH-11.36335+41.69985 | (17) CEPH-11.36335 +41.69985 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.36335 +41.69985 P= 28.719d, F160W= 17.81                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 4                                                                                                                            | CEPH-11.36335+41.69985 | (17) CEPH-11.36335 +41.69985 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.36335 +41.69985 P= 28.719d, F160W= 17.81                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 5                                                                                                                            | GRP-11.37299+41.65862  | (18) GRP-11.37299+41.65862   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 11.36857 +41.65954 P= 10.582d, F160W= 19.20 11.37741 +41.65770 P= 15.577d, F160W= 18.2 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 6                                                                                                                            | GRP-11.37299+41.65862  | (18) GRP-11.37299+41.65862   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 11.36857 +41.65954 P= 10.582d, F160W= 19.20 11.37741 +41.65770 P= 15.577d, F160W= 18.2 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 7                                                                                                                            | CEPH-11.26353+41.60053 | (19) CEPH-11.26353 +41.60053 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.26353 +41.60053 P= 20.171d, F160W= 18.02                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 8                                                                                                                            | CEPH-11.26353+41.60053 | (19) CEPH-11.26353 +41.60053 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.26353 +41.60053 P= 20.171d, F160W= 18.02                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |

# Proposal 15146 - M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) - A New Threshold of Preci...

|                                                                                                                             |                                                                                                                                  |                                                                                                                            |                               |     |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----|
| 9                                                                                                                           | CEPH-11.28 (20) CEPH-11.28144 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>144+41.587 +41.58776 UVIS2-C1K1C-SUB YRO<br>76I | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 1 (05) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.28144 +41.58776 P= 21.305d, F160W= 18.23                                                          |                                                                                                                                  |                                                                                                                            |                               |     |
| 10                                                                                                                          | CEPH-11.28 (20) CEPH-11.28144 WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>144+41.587 +41.58776 UVIS2-C1K1C-SUB YRO<br>76V | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 1 (05) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.28144 +41.58776 P= 21.305d, F160W= 18.23                                                          |                                                                                                                                  |                                                                                                                            |                               |     |
| 11                                                                                                                          | GRP-11.256 (21) GRP-11.25609+ WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>09+41.5692 41.56927 UVIS2-C1K1C-SUB YRO<br>7V   | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 1 (05) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.25860 +41.56573 P= 14.587d, F160W= 18.57 11.25357 +41.57281 P= 6.850d, F160W= 19.4 |                                                                                                                                  |                                                                                                                            |                               |     |
| 12                                                                                                                          | GRP-11.256 (21) GRP-11.25609+ WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>09+41.5692 41.56927 UVIS2-C1K1C-SUB YRO<br>7I   | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 1 (05) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.25860 +41.56573 P= 14.587d, F160W= 18.57 11.25357 +41.57281 P= 6.850d, F160W= 19.4 |                                                                                                                                  |                                                                                                                            |                               |     |
| 13                                                                                                                          | GRP-11.256 (21) GRP-11.25609+ WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>09+41.5692 41.56927 UVIS2-C1K1C-SUB YRO<br>7I   | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 1 (05) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.25860 +41.56573 P= 14.587d, F160W= 18.57 11.25357 +41.57281 P= 6.850d, F160W= 19.4 |                                                                                                                                  |                                                                                                                            |                               |     |
| 14                                                                                                                          | CEPH-11.12 (22) CEPH-11.12919 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>919+41.613 +41.61338 UVIS2-C1K1C-SUB YRO<br>38I | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 1 (05) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.12919 +41.61338 P= 12.349d, F160W= 18.45                                                          |                                                                                                                                  |                                                                                                                            |                               |     |
| 15                                                                                                                          | CEPH-11.12 (22) CEPH-11.12919 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>919+41.613 +41.61338 UVIS2-C1K1C-SUB YRO<br>38I | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 1 (05) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.12919 +41.61338 P= 12.349d, F160W= 18.45                                                          |                                                                                                                                  |                                                                                                                            |                               |     |
| 16                                                                                                                          | CEPH-11.12 (22) CEPH-11.12919 WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>919+41.613 +41.61338 UVIS2-C1K1C-SUB YRO<br>38V | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 1 (05) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.12919 +41.61338 P= 12.349d, F160W= 18.45                                                          |                                                                                                                                  |                                                                                                                            |                               |     |

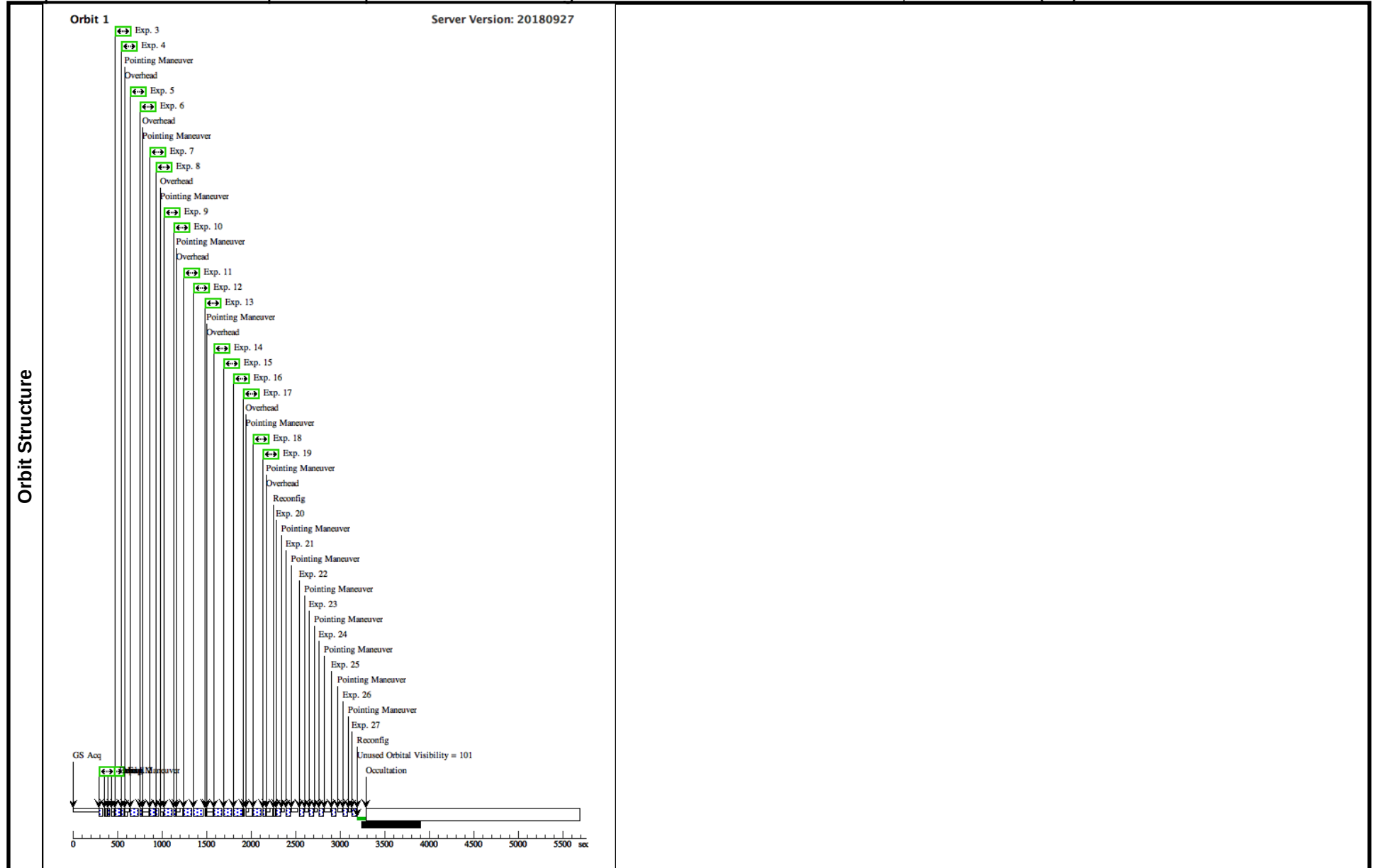
# Proposal 15146 - M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) - A New Threshold of Preci...

|                                                                                                                              |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------|-----------------------------------|-------|---------------------------|--------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 17                                                                                                                           | CEPH-11.12 919+41.613 38V | (22) CEPH-11.12919 +41.61338 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W | FLASH=12                  | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: M31 Cepheid: 11.12919 +41.61338 P= 12.349d, F160W= 18.45                                                           |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 18                                                                                                                           | GRP-11.134 98+41.6290 8V  | (23) GRP-11.13498+ 41.62908  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W | FLASH=12                  | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.13846 +41.62605 P= 10.567d, F160W= 18.58 11.13150 +41.63210 P= 13.273d, F160W= 18.5 |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 19                                                                                                                           | GRP-11.134 8I             | (23) GRP-11.13498+ 41.62908  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W | FLASH=12                  | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.13846 +41.62605 P= 10.567d, F160W= 18.58 11.13150 +41.63210 P= 13.273d, F160W= 18.5 |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 20                                                                                                                           | GRP-11.134 98+41.6290 8H  | (23) GRP-11.13498+ 41.62908  | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.13846 +41.62605 P= 10.567d, F160W= 18.58 11.13150 +41.63210 P= 13.273d, F160W= 18.5 |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 21                                                                                                                           | CEPH-11.12 919+41.613 38H | (22) CEPH-11.12919 +41.61338 | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.12919 +41.61338 P= 12.349d, F160W= 18.45                                                           |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 22                                                                                                                           | GRP-11.256 09+41.5692 7H  | (21) GRP-11.25609+ 41.56927  | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.25860 +41.56573 P= 14.587d, F160W= 18.57 11.25357 +41.57281 P= 6.850d, F160W= 19.4  |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 23                                                                                                                           | CEPH-11.28 144+41.587 76H | (20) CEPH-11.28144 +41.58776 | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.28144 +41.58776 P= 21.305d, F160W= 18.23                                                           |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 24                                                                                                                           | CEPH-11.26 353+41.600 53H | (19) CEPH-11.26353 +41.60053 | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.26353 +41.60053 P= 20.171d, F160W= 18.02                                                           |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |



Proposal 15146 - M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 1 (05) - A New Threshold of Preci...

|                                                                                                                              |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 25                                                                                                                           | GRP-11.372 (18) GRP-11.37299+<br>99+41.6586 41.65862<br>2H   | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 1 (05) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.36857 +41.65954 P= 10.582d, F160W= 19.20 11.37741 +41.65770 P= 15.577d, F160W= 18.2 |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 26                                                                                                                           | CEPH-11.36 (17) CEPH-11.36335<br>335+41.699 +41.69985<br>85H | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 1 (05) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.36335 +41.69985 P= 28.719d, F160W= 17.81                                                           |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 27                                                                                                                           | CEPH-11.35 (16) CEPH-11.35459<br>459+41.708 +41.70886<br>86H | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 1 (05) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.35459 +41.70886 P= 16.576d, F160W= 18.45                                                           |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |



|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Visit | <div data-bbox="142 100 2005 129"><div>Proposal 15146, M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2</div><div>(06), completed</div></div> <div data-bbox="142 129 2005 162"><div>Diagnostic Status: No Diagnostics</div></div> <div data-bbox="142 162 2005 194"><div>Scientific Instruments: WFC3/IR, WFC3/UVIS</div></div> <div data-bbox="142 194 2005 237"><div>Special Requirements: SAME ORIENT AS 05; AFTER 05 BY 6 D TO 8 D</div></div> | Mon Nov 05 18:01:59 GMT 2018 |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|



Proposal 15146 - M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) - A New Threshold of Preci...

| Exposures | #                                                                                                                            | Label                  | Target                       | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.     | Groups                                                                                                 | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------|-----------------------------------|---------------|--------------|-------------------|--------------------------------------------------------------------------------------------------------|---------------------------------|-------|
|           | 1                                                                                                                            | CEPH-11.35459+41.70886 | (16) CEPH-11.35459 +41.70886 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE FINE | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.35459 +41.70886 P= 16.576d, F160W= 18.45                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 2                                                                                                                            | CEPH-11.35459+41.70886 | (16) CEPH-11.35459 +41.70886 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.35459 +41.70886 P= 16.576d, F160W= 18.45                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 3                                                                                                                            | CEPH-11.36335+41.69985 | (17) CEPH-11.36335 +41.69985 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.36335 +41.69985 P= 28.719d, F160W= 17.81                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 4                                                                                                                            | CEPH-11.36335+41.69985 | (17) CEPH-11.36335 +41.69985 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.36335 +41.69985 P= 28.719d, F160W= 17.81                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 5                                                                                                                            | GRP-11.37299+41.65862  | (18) GRP-11.37299+41.65862   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 11.36857 +41.65954 P= 10.582d, F160W= 19.20 11.37741 +41.65770 P= 15.577d, F160W= 18.2 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 6                                                                                                                            | GRP-11.37299+41.65862  | (18) GRP-11.37299+41.65862   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 11.36857 +41.65954 P= 10.582d, F160W= 19.20 11.37741 +41.65770 P= 15.577d, F160W= 18.2 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 7                                                                                                                            | CEPH-11.26353+41.60053 | (19) CEPH-11.26353 +41.60053 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.26353 +41.60053 P= 20.171d, F160W= 18.02                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 8                                                                                                                            | CEPH-11.26353+41.60053 | (19) CEPH-11.26353 +41.60053 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.26353 +41.60053 P= 20.171d, F160W= 18.02                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |

# Proposal 15146 - M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) - A New Threshold of Preci...

|                                                                                                                             |                                                                                                                           |                                                                                                                            |                      |       |     |
|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------|-------|-----|
| 9                                                                                                                           | CEPH-11.28 (20) CEPH-11.28144 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>144+41.587 +41.58776 UVIS2-C1K1C-SUB YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 2 (06) | 10.00 Secs (10 Secs) | [==>] | [1] |
| Comments: M31 Cepheid: 11.28144 +41.58776 P= 21.305d, F160W= 18.23                                                          |                                                                                                                           |                                                                                                                            |                      |       |     |
| 10                                                                                                                          | CEPH-11.28 (20) CEPH-11.28144 WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>144+41.587 +41.58776 UVIS2-C1K1C-SUB YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 2 (06) | 10.00 Secs (10 Secs) | [==>] | [1] |
| Comments: M31 Cepheid: 11.28144 +41.58776 P= 21.305d, F160W= 18.23                                                          |                                                                                                                           |                                                                                                                            |                      |       |     |
| 11                                                                                                                          | GRP-11.256 (21) GRP-11.25609+ WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>09+41.5692 41.56927 UVIS2-C1K1C-SUB YRO  | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 2 (06) | 10.00 Secs (10 Secs) | [==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.25860 +41.56573 P= 14.587d, F160W= 18.57 11.25357 +41.57281 P= 6.850d, F160W= 19.4 |                                                                                                                           |                                                                                                                            |                      |       |     |
| 12                                                                                                                          | GRP-11.256 (21) GRP-11.25609+ WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>09+41.5692 41.56927 UVIS2-C1K1C-SUB YRO  | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 2 (06) | 10.00 Secs (10 Secs) | [==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.25860 +41.56573 P= 14.587d, F160W= 18.57 11.25357 +41.57281 P= 6.850d, F160W= 19.4 |                                                                                                                           |                                                                                                                            |                      |       |     |
| 13                                                                                                                          | GRP-11.256 (21) GRP-11.25609+ WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>09+41.5692 41.56927 UVIS2-C1K1C-SUB YRO  | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 2 (06) | 10.00 Secs (10 Secs) | [==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.25860 +41.56573 P= 14.587d, F160W= 18.57 11.25357 +41.57281 P= 6.850d, F160W= 19.4 |                                                                                                                           |                                                                                                                            |                      |       |     |
| 14                                                                                                                          | CEPH-11.12 (22) CEPH-11.12919 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>919+41.613 +41.61338 UVIS2-C1K1C-SUB YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 2 (06) | 10.00 Secs (10 Secs) | [==>] | [1] |
| Comments: M31 Cepheid: 11.12919 +41.61338 P= 12.349d, F160W= 18.45                                                          |                                                                                                                           |                                                                                                                            |                      |       |     |
| 15                                                                                                                          | CEPH-11.12 (22) CEPH-11.12919 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>919+41.613 +41.61338 UVIS2-C1K1C-SUB YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 2 (06) | 10.00 Secs (10 Secs) | [==>] | [1] |
| Comments: M31 Cepheid: 11.12919 +41.61338 P= 12.349d, F160W= 18.45                                                          |                                                                                                                           |                                                                                                                            |                      |       |     |
| 16                                                                                                                          | CEPH-11.12 (22) CEPH-11.12919 WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>919+41.613 +41.61338 UVIS2-C1K1C-SUB YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 2 (06) | 10.00 Secs (10 Secs) | [==>] | [1] |
| Comments: M31 Cepheid: 11.12919 +41.61338 P= 12.349d, F160W= 18.45                                                          |                                                                                                                           |                                                                                                                            |                      |       |     |

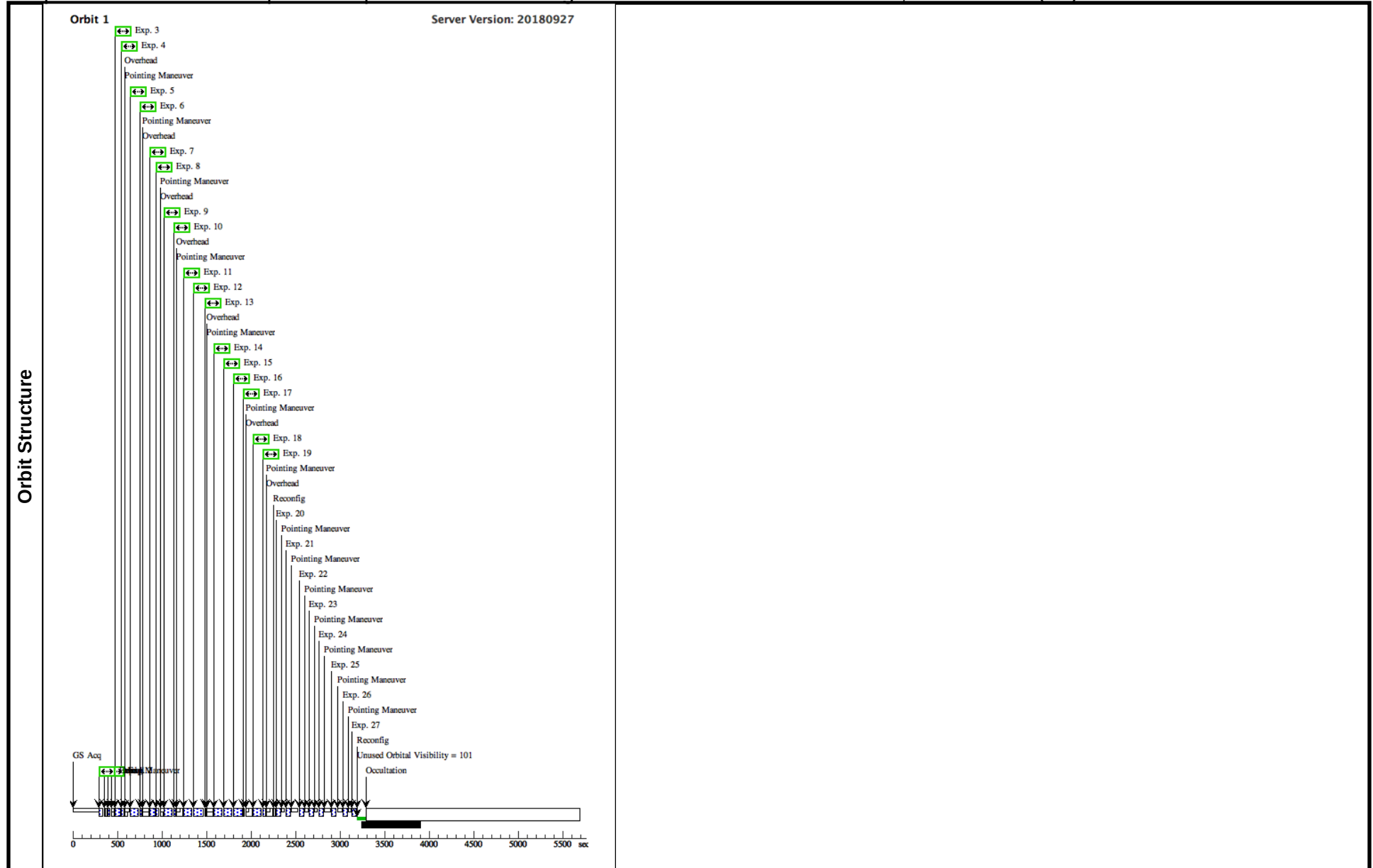
# Proposal 15146 - M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) - A New Threshold of Preci...

|                                                                                                                              |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------|-----------------------------------|-------|---------------------------|--------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 17                                                                                                                           | CEPH-11.12 919+41.613 38V | (22) CEPH-11.12919 +41.61338 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W | FLASH=12                  | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: M31 Cepheid: 11.12919 +41.61338 P= 12.349d, F160W= 18.45                                                           |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 18                                                                                                                           | GRP-11.134 98+41.6290 8V  | (23) GRP-11.13498+ 41.62908  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W | FLASH=12                  | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.13846 +41.62605 P= 10.567d, F160W= 18.58 11.13150 +41.63210 P= 13.273d, F160W= 18.5 |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 19                                                                                                                           | GRP-11.134 8I             | (23) GRP-11.13498+ 41.62908  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W | FLASH=12                  | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.13846 +41.62605 P= 10.567d, F160W= 18.58 11.13150 +41.63210 P= 13.273d, F160W= 18.5 |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 20                                                                                                                           | GRP-11.134 98+41.6290 8H  | (23) GRP-11.13498+ 41.62908  | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.13846 +41.62605 P= 10.567d, F160W= 18.58 11.13150 +41.63210 P= 13.273d, F160W= 18.5 |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 21                                                                                                                           | CEPH-11.12 919+41.613 38H | (22) CEPH-11.12919 +41.61338 | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.12919 +41.61338 P= 12.349d, F160W= 18.45                                                           |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 22                                                                                                                           | GRP-11.256 09+41.5692 7H  | (21) GRP-11.25609+ 41.56927  | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.25860 +41.56573 P= 14.587d, F160W= 18.57 11.25357 +41.57281 P= 6.850d, F160W= 19.4  |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 23                                                                                                                           | CEPH-11.28 144+41.587 76H | (20) CEPH-11.28144 +41.58776 | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.28144 +41.58776 P= 21.305d, F160W= 18.23                                                           |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |
| 24                                                                                                                           | CEPH-11.26 353+41.600 53H | (19) CEPH-11.26353 +41.60053 | WFC3/IR, MULTIACCUM, IRSUB512     | F160W | NSAMP=8; SAMP-SEQ=SPAR S5 | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.26353 +41.60053 P= 20.171d, F160W= 18.02                                                           |                           |                              |                                   |       |                           |                    |                                                                                                        |                                       |     |

Proposal 15146 - M31 Cepheid Sequence 3 starting with CEPH-11.35459+41.70886; Execution 2 (06) - A New Threshold of Preci...

|                                                                                                                              |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 25                                                                                                                           | GRP-11.372 (18) GRP-11.37299+<br>99+41.6586 41.65862<br>2H   | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 2 (06) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.36857 +41.65954 P= 10.582d, F160W= 19.20 11.37741 +41.65770 P= 15.577d, F160W= 18.2 |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 26                                                                                                                           | CEPH-11.36 (17) CEPH-11.36335<br>335+41.699 +41.69985<br>85H | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 2 (06) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.36335 +41.69985 P= 28.719d, F160W= 17.81                                                           |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 27                                                                                                                           | CEPH-11.35 (16) CEPH-11.35459<br>459+41.708 +41.70886<br>86H | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 3 startin<br>g with CEPH-11.354<br>59+41.70886; Execu<br>tion 2 (06) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.35459 +41.70886 P= 16.576d, F160W= 18.45                                                           |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |





|       |                                                                                                                                                                                                                                                |                              |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Visit | <p>Proposal 15146, M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 1 (07), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: (none)</p> | Mon Nov 05 18:02:00 GMT 2018 |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|



Proposal 15146 - M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 1 (07) - A New Threshold of Preci...

| Exposures | #                                                                                                                            | Label                  | Target                       | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.      | Groups                                                                                                 | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------|-----------------------------------|---------------|--------------|--------------------|--------------------------------------------------------------------------------------------------------|---------------------------------|-------|
|           | 1                                                                                                                            | CEPH-10.91809+41.18565 | (24) CEPH-10.91809 +41.18565 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE FI NE | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 1 (07) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 10.91809 +41.18565 P= 56.245d, F160W= 17.02                                                           |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 2                                                                                                                            | CEPH-10.91809+41.18565 | (24) CEPH-10.91809 +41.18565 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 1 (07) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 10.91809 +41.18565 P= 56.245d, F160W= 17.02                                                           |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 3                                                                                                                            | GRP-10.90530+41.24005  | (25) GRP-10.90530+41.24005   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 1 (07) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 10.90482 +41.24201 P= 15.913d, F160W= 18.25 10.90577 +41.23809 P= 28.905d, F160W= 17.7 |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 4                                                                                                                            | GRP-10.90530+41.24005  | (25) GRP-10.90530+41.24005   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 1 (07) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 10.90482 +41.24201 P= 15.913d, F160W= 18.25 10.90577 +41.23809 P= 28.905d, F160W= 17.7 |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 5                                                                                                                            | GRP-10.92725+41.24822  | (26) GRP-10.92725+41.24822   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 1 (07) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 10.92532 +41.24889 P= 15.255d, F160W= 18.55 10.92917 +41.24755 P= 43.054d, F160W= 16.8 |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 6                                                                                                                            | GRP-10.92725+41.24822  | (26) GRP-10.92725+41.24822   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 1 (07) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 10.92532 +41.24889 P= 15.255d, F160W= 18.55 10.92917 +41.24755 P= 43.054d, F160W= 16.8 |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 7                                                                                                                            | CEPH-11.05340+41.30685 | (27) CEPH-11.05340 +41.30685 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 1 (07) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.05340 +41.30685 P= 10.627d, F160W= 19.08                                                           |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |
|           | 8                                                                                                                            | CEPH-11.05340+41.30685 | (27) CEPH-11.05340 +41.30685 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 1 (07) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.05340 +41.30685 P= 10.627d, F160W= 19.08                                                           |                        |                              |                                   |               |              |                    |                                                                                                        |                                 |       |

Proposal 15146 - M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 1 (07) - A New Threshold of Preci...

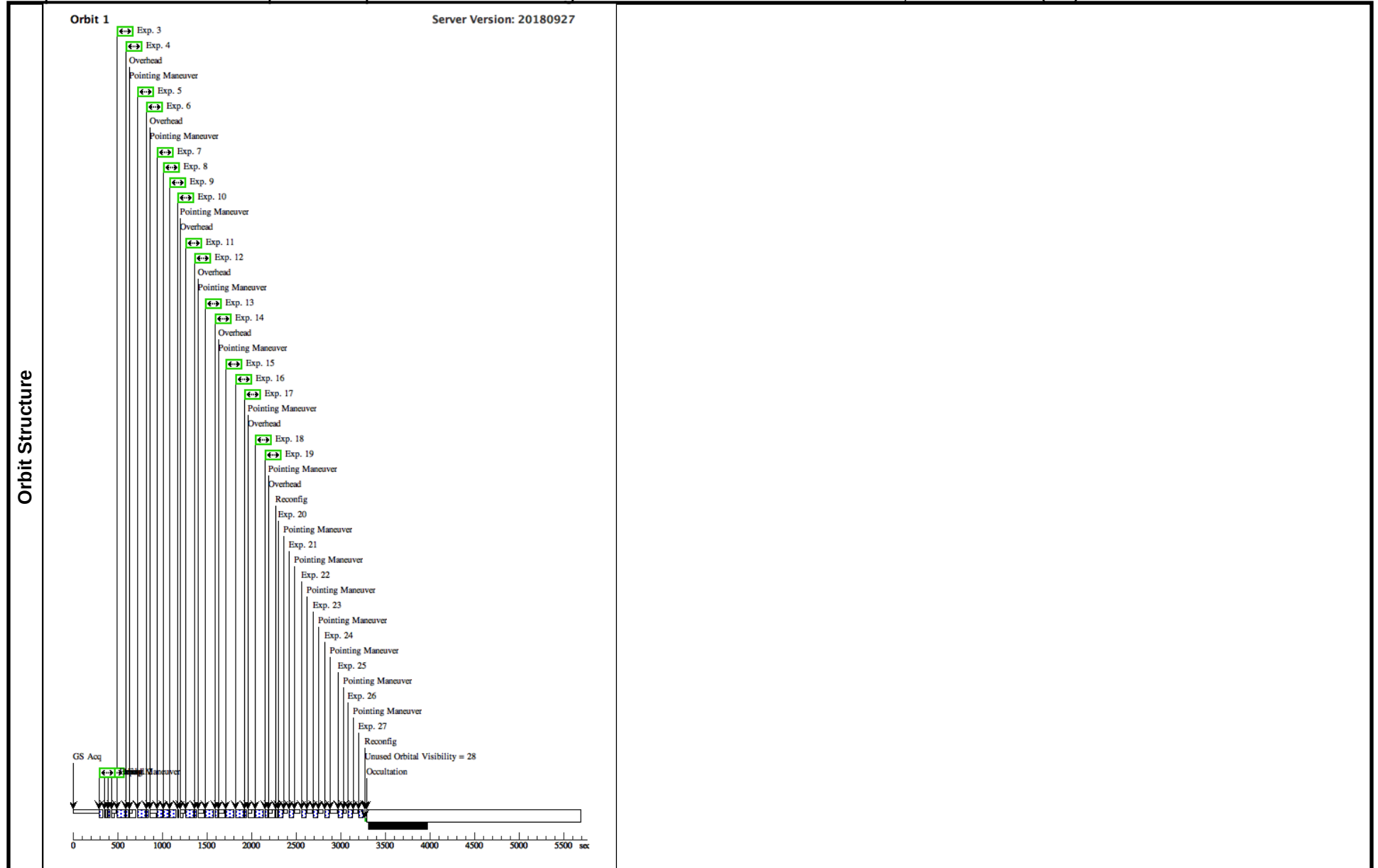
|                                                                                                                                                                          |                                                                                                                           |                                                                                                                            |                               |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----|
| 9                                                                                                                                                                        | CEPH-11.05 (27) CEPH-11.05340 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>340+41.306 +41.30685 UVIS2-C512C-SUB YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.05340 +41.30685 P= 10.627d, F160W= 19.08                                                                                                       |                                                                                                                           |                                                                                                                            |                               |     |
| 10                                                                                                                                                                       | CEPH-11.05 (27) CEPH-11.05340 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>340+41.306 +41.30685 UVIS2-C512C-SUB YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.05340 +41.30685 P= 10.627d, F160W= 19.08                                                                                                       |                                                                                                                           |                                                                                                                            |                               |     |
| 11                                                                                                                                                                       | GRP-11.095 (28) GRP-11.09581+ WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>81+41.3541 41.35417 UVIS2-C1K1C-SUB YRO  | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 3 M31 Cepheids: 11.09181 +41.35497 P= 10.297d, F160W= 18.96 11.09983 +41.35339 P= 36.106d, F160W= 17.17 11.09981 +41.35337 P= 36.154d, F160W= 17.1 |                                                                                                                           |                                                                                                                            |                               |     |
| 12                                                                                                                                                                       | GRP-11.095 (28) GRP-11.09581+ WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>81+41.3541 41.35417 UVIS2-C1K1C-SUB YRO  | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 3 M31 Cepheids: 11.09181 +41.35497 P= 10.297d, F160W= 18.96 11.09983 +41.35339 P= 36.106d, F160W= 17.17 11.09981 +41.35337 P= 36.154d, F160W= 17.1 |                                                                                                                           |                                                                                                                            |                               |     |
| 13                                                                                                                                                                       | GRP-11.170 (29) GRP-11.17066+ WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>66+41.4033 41.40333 UVIS2-C1K1C-SUB YRO  | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.17153 +41.40722 P= 10.350d, F160W= 18.82 11.16980 +41.39944 P= 10.847d, F160W= 18.9                                             |                                                                                                                           |                                                                                                                            |                               |     |
| 14                                                                                                                                                                       | GRP-11.170 (29) GRP-11.17066+ WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>66+41.4033 41.40333 UVIS2-C1K1C-SUB YRO  | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.17153 +41.40722 P= 10.350d, F160W= 18.82 11.16980 +41.39944 P= 10.847d, F160W= 18.9                                             |                                                                                                                           |                                                                                                                            |                               |     |
| 15                                                                                                                                                                       | CEPH-11.23 (30) CEPH-11.23543 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>543+41.472 +41.47288 UVIS2-C1K1C-SUB YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.23543 +41.47288 P= 21.885d, F160W= 18.14                                                                                                       |                                                                                                                           |                                                                                                                            |                               |     |
| 16                                                                                                                                                                       | CEPH-11.23 (30) CEPH-11.23543 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>543+41.472 +41.47288 UVIS2-C1K1C-SUB YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.23543 +41.47288 P= 21.885d, F160W= 18.14                                                                                                       |                                                                                                                           |                                                                                                                            |                               |     |

# Proposal 15146 - M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 1 (07) - A New Threshold of Preci...

|                                                                                                                                                                          |                                                                                                                                               |                                                                                                                            |                                       |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 17                                                                                                                                                                       | CEPH-11.23 (30) CEPH-11.23543 WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>543+41.472 +41.47288 UVIS2-C1K1C-SUB YRO<br>88V              | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: M31 Cepheid: 11.23543 +41.47288 P= 21.885d, F160W= 18.14                                                                                                       |                                                                                                                                               |                                                                                                                            |                                       |     |
| 18                                                                                                                                                                       | GRP-11.243 (31) GRP-11.24332+ WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>32+41.5092 41.50926 UVIS2-C1K1C-SUB YRO<br>6V                | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.24152 +41.50936 P= 23.298d, F160W= 18.25 11.24511 +41.50915 P= 5.751d, F160W= 19.8                                              |                                                                                                                                               |                                                                                                                            |                                       |     |
| 19                                                                                                                                                                       | GRP-11.243 (31) GRP-11.24332+ WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>6I 41.50926 UVIS2-C1K1C-SUB YRO                              | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.24152 +41.50936 P= 23.298d, F160W= 18.25 11.24511 +41.50915 P= 5.751d, F160W= 19.8                                              |                                                                                                                                               |                                                                                                                            |                                       |     |
| 20                                                                                                                                                                       | GRP-11.243 (31) GRP-11.24332+ WFC3/IR, MULTIACCUM, F160W NSAMP=8; EXP PCS MODE G<br>32+41.5092 41.50926 IRSUB512 SAMP-SEQ=SPAR YRO<br>6H S5   | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.24152 +41.50936 P= 23.298d, F160W= 18.25 11.24511 +41.50915 P= 5.751d, F160W= 19.8                                              |                                                                                                                                               |                                                                                                                            |                                       |     |
| 21                                                                                                                                                                       | CEPH-11.23 (30) CEPH-11.23543 WFC3/IR, MULTIACCUM, F160W NSAMP=8; EXP PCS MODE G<br>543+41.472 +41.47288 IRSUB512 SAMP-SEQ=SPAR YRO<br>88H S5 | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.23543 +41.47288 P= 21.885d, F160W= 18.14                                                                                                       |                                                                                                                                               |                                                                                                                            |                                       |     |
| 22                                                                                                                                                                       | GRP-11.170 (29) GRP-11.17066+ WFC3/IR, MULTIACCUM, F160W NSAMP=8; EXP PCS MODE G<br>66+41.4033 41.40333 IRSUB512 SAMP-SEQ=SPAR YRO<br>3H S5   | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.17153 +41.40722 P= 10.350d, F160W= 18.82 11.16980 +41.39944 P= 10.847d, F160W= 18.9                                             |                                                                                                                                               |                                                                                                                            |                                       |     |
| 23                                                                                                                                                                       | GRP-11.095 (28) GRP-11.09581+ WFC3/IR, MULTIACCUM, F160W NSAMP=8; EXP PCS MODE G<br>81+41.3541 41.35417 IRSUB512 SAMP-SEQ=SPAR YRO<br>7H S5   | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 3 M31 Cepheids: 11.09181 +41.35497 P= 10.297d, F160W= 18.96 11.09983 +41.35339 P= 36.106d, F160W= 17.17 11.09981 +41.35337 P= 36.154d, F160W= 17.1 |                                                                                                                                               |                                                                                                                            |                                       |     |
| 24                                                                                                                                                                       | CEPH-11.05 (27) CEPH-11.05340 WFC3/IR, MULTIACCUM, F160W NSAMP=8; EXP PCS MODE G<br>340+41.306 +41.30685 IRSUB512 SAMP-SEQ=SPAR YRO<br>85H S5 | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.05340 +41.30685 P= 10.627d, F160W= 19.08                                                                                                       |                                                                                                                                               |                                                                                                                            |                                       |     |

Proposal 15146 - M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 1 (07) - A New Threshold of Preci...

|                                                                                                                              |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 25                                                                                                                           | GRP-10.927<br>25+41.2482<br>2H  | (26) GRP-10.92725+<br>41.24822  | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 10.92532 +41.24889 P= 15.255d, F160W= 18.55 10.92917 +41.24755 P= 43.054d, F160W= 16.8 |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 26                                                                                                                           | GRP-10.905<br>30+41.2400<br>5H  | (25) GRP-10.90530+<br>41.24005  | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 10.90482 +41.24201 P= 15.913d, F160W= 18.25 10.90577 +41.23809 P= 28.905d, F160W= 17.7 |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 27                                                                                                                           | CEPH-10.91<br>809+41.185<br>65H | (24) CEPH-10.91809<br>+41.18565 | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 1 (07) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 10.91809 +41.18565 P= 56.245d, F160W= 17.02                                                           |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |





|       |                                                                                          |                              |
|-------|------------------------------------------------------------------------------------------|------------------------------|
| Visit | Proposal 15146, M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 | Mon Nov 05 18:02:00 GMT 2018 |
|       | (08), completed                                                                          |                              |
|       | Diagnostic Status: No Diagnostics                                                        |                              |
|       | Scientific Instruments: WFC3/IR, WFC3/UVIS                                               |                              |
|       | Special Requirements: SAME ORIENT AS 07; AFTER 07 BY 6 D TO 8 D                          |                              |



Proposal 15146 - M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) - A New Threshold of Preci...

| Exposures | #                                                                                                                            | Label                  | Target                       | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.     | Groups                                                                                                 | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------|-----------------------------------|---------------|--------------|-------------------|--------------------------------------------------------------------------------------------------------|---------------------------------|-------|
|           | 1                                                                                                                            | CEPH-10.91809+41.18565 | (24) CEPH-10.91809 +41.18565 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE FINE | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 10.91809 +41.18565 P= 56.245d, F160W= 17.02                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 2                                                                                                                            | CEPH-10.91809+41.18565 | (24) CEPH-10.91809 +41.18565 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 10.91809 +41.18565 P= 56.245d, F160W= 17.02                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 3                                                                                                                            | GRP-10.90530+41.24005  | (25) GRP-10.90530+41.24005   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 10.90482 +41.24201 P= 15.913d, F160W= 18.25 10.90577 +41.23809 P= 28.905d, F160W= 17.7 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 4                                                                                                                            | GRP-10.90530+41.24005  | (25) GRP-10.90530+41.24005   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 10.90482 +41.24201 P= 15.913d, F160W= 18.25 10.90577 +41.23809 P= 28.905d, F160W= 17.7 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 5                                                                                                                            | GRP-10.92725+41.24822  | (26) GRP-10.92725+41.24822   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 10.92532 +41.24889 P= 15.255d, F160W= 18.55 10.92917 +41.24755 P= 43.054d, F160W= 16.8 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 6                                                                                                                            | GRP-10.92725+41.24822  | (26) GRP-10.92725+41.24822   | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: Grouping of 2 M31 Cepheids: 10.92532 +41.24889 P= 15.255d, F160W= 18.55 10.92917 +41.24755 P= 43.054d, F160W= 16.8 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 7                                                                                                                            | CEPH-11.05340+41.30685 | (27) CEPH-11.05340 +41.30685 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.05340 +41.30685 P= 10.627d, F160W= 19.08                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 8                                                                                                                            | CEPH-11.05340+41.30685 | (27) CEPH-11.05340 +41.30685 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.05340 +41.30685 P= 10.627d, F160W= 19.08                                                           |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |

Proposal 15146 - M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) - A New Threshold of Preci...

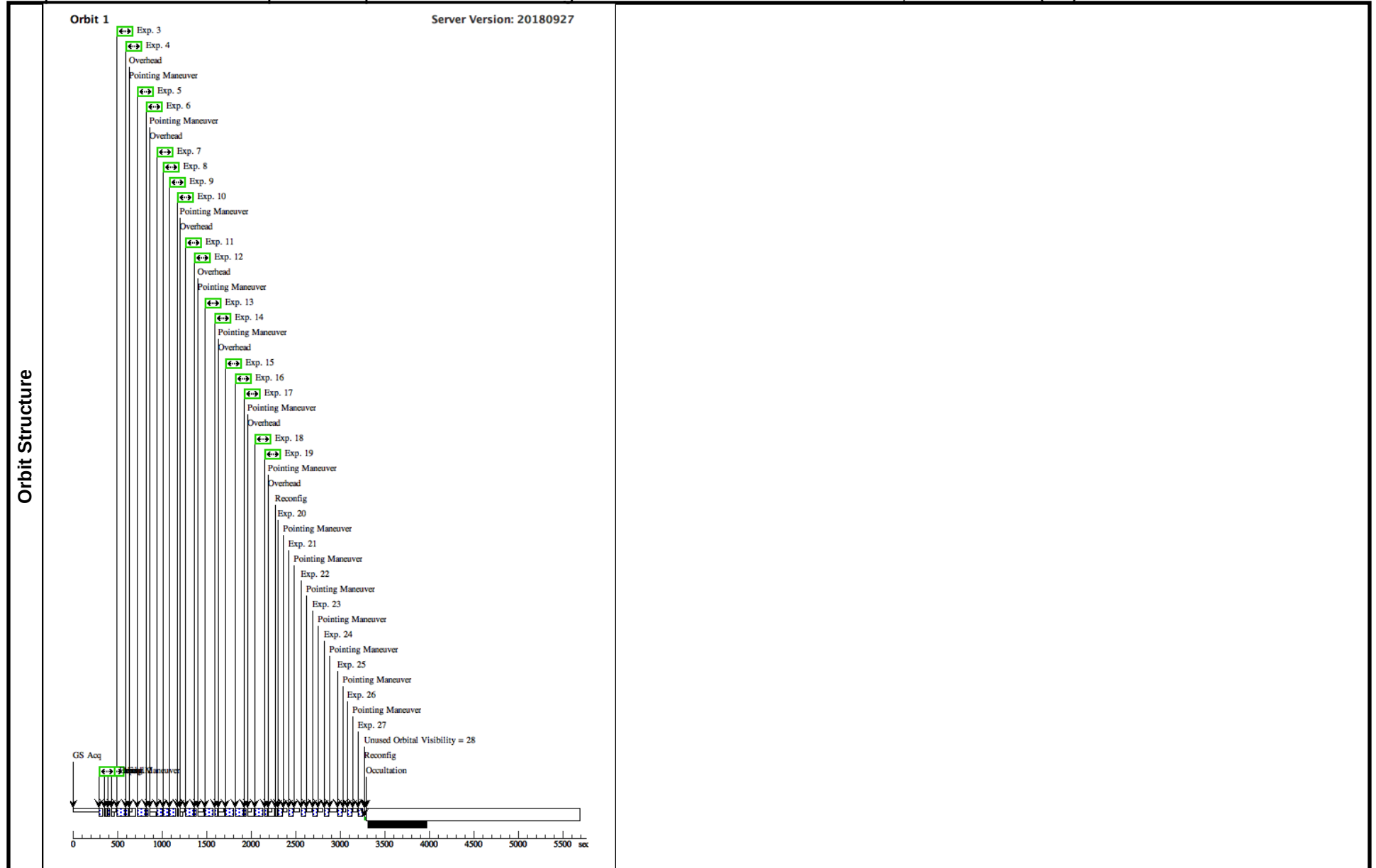
|                                                                                                                                                                          |                                                                                                                           |                                                                                                        |                               |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------|-----|
| 9                                                                                                                                                                        | CEPH-11.05 (27) CEPH-11.05340 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>340+41.306 +41.30685 UVIS2-C512C-SUB YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.05340 +41.30685 P= 10.627d, F160W= 19.08                                                                                                       |                                                                                                                           |                                                                                                        |                               |     |
| 10                                                                                                                                                                       | CEPH-11.05 (27) CEPH-11.05340 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>340+41.306 +41.30685 UVIS2-C512C-SUB YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.05340 +41.30685 P= 10.627d, F160W= 19.08                                                                                                       |                                                                                                                           |                                                                                                        |                               |     |
| 11                                                                                                                                                                       | GRP-11.095 (28) GRP-11.09581+ WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>81+41.3541 41.35417 UVIS2-C1K1C-SUB YRO  | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 3 M31 Cepheids: 11.09181 +41.35497 P= 10.297d, F160W= 18.96 11.09983 +41.35339 P= 36.106d, F160W= 17.17 11.09981 +41.35337 P= 36.154d, F160W= 17.1 |                                                                                                                           |                                                                                                        |                               |     |
| 12                                                                                                                                                                       | GRP-11.095 (28) GRP-11.09581+ WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>81+41.3541 41.35417 UVIS2-C1K1C-SUB YRO  | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 3 M31 Cepheids: 11.09181 +41.35497 P= 10.297d, F160W= 18.96 11.09983 +41.35339 P= 36.106d, F160W= 17.17 11.09981 +41.35337 P= 36.154d, F160W= 17.1 |                                                                                                                           |                                                                                                        |                               |     |
| 13                                                                                                                                                                       | GRP-11.170 (29) GRP-11.17066+ WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>66+41.4033 41.40333 UVIS2-C1K1C-SUB YRO  | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.17153 +41.40722 P= 10.350d, F160W= 18.82 11.16980 +41.39944 P= 10.847d, F160W= 18.9                                             |                                                                                                                           |                                                                                                        |                               |     |
| 14                                                                                                                                                                       | GRP-11.170 (29) GRP-11.17066+ WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>66+41.4033 41.40333 UVIS2-C1K1C-SUB YRO  | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.17153 +41.40722 P= 10.350d, F160W= 18.82 11.16980 +41.39944 P= 10.847d, F160W= 18.9                                             |                                                                                                                           |                                                                                                        |                               |     |
| 15                                                                                                                                                                       | CEPH-11.23 (30) CEPH-11.23543 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>543+41.472 +41.47288 UVIS2-C1K1C-SUB YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.23543 +41.47288 P= 21.885d, F160W= 18.14                                                                                                       |                                                                                                                           |                                                                                                        |                               |     |
| 16                                                                                                                                                                       | CEPH-11.23 (30) CEPH-11.23543 WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>543+41.472 +41.47288 UVIS2-C1K1C-SUB YRO | Sequence 1-27 Non-Int in M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.23543 +41.47288 P= 21.885d, F160W= 18.14                                                                                                       |                                                                                                                           |                                                                                                        |                               |     |

# Proposal 15146 - M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) - A New Threshold of Preci...

|                                                                                                                                                                          |                                                                                                                                               |                                                                                                                            |                                       |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 17                                                                                                                                                                       | CEPH-11.23 (30) CEPH-11.23543 WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>543+41.472 +41.47288 UVIS2-C1K1C-SUB YRO<br>88V              | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 2 (08) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: M31 Cepheid: 11.23543 +41.47288 P= 21.885d, F160W= 18.14                                                                                                       |                                                                                                                                               |                                                                                                                            |                                       |     |
| 18                                                                                                                                                                       | GRP-11.243 (31) GRP-11.24332+ WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>32+41.5092 41.50926 UVIS2-C1K1C-SUB YRO<br>6V                | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 2 (08) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.24152 +41.50936 P= 23.298d, F160W= 18.25 11.24511 +41.50915 P= 5.751d, F160W= 19.8                                              |                                                                                                                                               |                                                                                                                            |                                       |     |
| 19                                                                                                                                                                       | GRP-11.243 (31) GRP-11.24332+ WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>6I 41.50926 UVIS2-C1K1C-SUB YRO                              | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 2 (08) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.24152 +41.50936 P= 23.298d, F160W= 18.25 11.24511 +41.50915 P= 5.751d, F160W= 19.8                                              |                                                                                                                                               |                                                                                                                            |                                       |     |
| 20                                                                                                                                                                       | GRP-11.243 (31) GRP-11.24332+ WFC3/IR, MULTIACCUM, F160W NSAMP=8; EXP PCS MODE G<br>32+41.5092 41.50926 IRSUB512 SAMP-SEQ=SPAR YRO<br>6H S5   | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 2 (08) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.24152 +41.50936 P= 23.298d, F160W= 18.25 11.24511 +41.50915 P= 5.751d, F160W= 19.8                                              |                                                                                                                                               |                                                                                                                            |                                       |     |
| 21                                                                                                                                                                       | CEPH-11.23 (30) CEPH-11.23543 WFC3/IR, MULTIACCUM, F160W NSAMP=8; EXP PCS MODE G<br>543+41.472 +41.47288 IRSUB512 SAMP-SEQ=SPAR YRO<br>88H S5 | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 2 (08) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.23543 +41.47288 P= 21.885d, F160W= 18.14                                                                                                       |                                                                                                                                               |                                                                                                                            |                                       |     |
| 22                                                                                                                                                                       | GRP-11.170 (29) GRP-11.17066+ WFC3/IR, MULTIACCUM, F160W NSAMP=8; EXP PCS MODE G<br>66+41.4033 41.40333 IRSUB512 SAMP-SEQ=SPAR YRO<br>3H S5   | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 2 (08) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.17153 +41.40722 P= 10.350d, F160W= 18.82 11.16980 +41.39944 P= 10.847d, F160W= 18.9                                             |                                                                                                                                               |                                                                                                                            |                                       |     |
| 23                                                                                                                                                                       | GRP-11.095 (28) GRP-11.09581+ WFC3/IR, MULTIACCUM, F160W NSAMP=8; EXP PCS MODE G<br>81+41.3541 41.35417 IRSUB512 SAMP-SEQ=SPAR YRO<br>7H S5   | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 2 (08) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 3 M31 Cepheids: 11.09181 +41.35497 P= 10.297d, F160W= 18.96 11.09983 +41.35339 P= 36.106d, F160W= 17.17 11.09981 +41.35337 P= 36.154d, F160W= 17.1 |                                                                                                                                               |                                                                                                                            |                                       |     |
| 24                                                                                                                                                                       | CEPH-11.05 (27) CEPH-11.05340 WFC3/IR, MULTIACCUM, F160W NSAMP=8; EXP PCS MODE G<br>340+41.306 +41.30685 IRSUB512 SAMP-SEQ=SPAR YRO<br>85H S5 | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 2 (08) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.05340 +41.30685 P= 10.627d, F160W= 19.08                                                                                                       |                                                                                                                                               |                                                                                                                            |                                       |     |

Proposal 15146 - M31 Cepheid Sequence 4 starting with CEPH-10.91809+41.18565; Execution 2 (08) - A New Threshold of Preci...

|                                                                                                                              |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 25                                                                                                                           | GRP-10.927<br>25+41.2482<br>2H  | (26) GRP-10.92725+<br>41.24822  | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 2 (08) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 10.92532 +41.24889 P= 15.255d, F160W= 18.55 10.92917 +41.24755 P= 43.054d, F160W= 16.8 |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 26                                                                                                                           | GRP-10.905<br>30+41.2400<br>5H  | (25) GRP-10.90530+<br>41.24005  | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 2 (08) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 10.90482 +41.24201 P= 15.913d, F160W= 18.25 10.90577 +41.23809 P= 28.905d, F160W= 17.7 |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 27                                                                                                                           | CEPH-10.91<br>809+41.185<br>65H | (24) CEPH-10.91809<br>+41.18565 | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in M31 Cepheid S<br>equence 4 startin<br>g with CEPH-10.918<br>09+41.18565; Execu<br>tion 2 (08) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 10.91809 +41.18565 P= 56.245d, F160W= 17.02                                                           |                                 |                                 |                                  |       |                                 |                       |                                                                                                                            |                                       |     |



|       |                                                                                                                                                                                                                                                                |                              |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Visit | <div>Proposal 15146, M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 1 (09), completed</div> <div>Diagnostic Status: No Diagnostics</div> <div>Scientific Instruments: WFC3/IR, WFC3/UVIS</div> <div>Special Requirements: (none)</div> | Mon Nov 05 18:02:00 GMT 2018 |
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Proposal 15146 - M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 1 (09) - A New Threshold of Preci...

| Exposures | #                                                                  | Label                           | Target                          | Config,Mode,Aperture                 | Spectral Els. | Opt. Params. | Special Reqs.         | Groups                                                                                                                     | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|--------------------------------------------------------------------|---------------------------------|---------------------------------|--------------------------------------|---------------|--------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------|
|           | 1                                                                  | CEPH-11.00<br>794+41.502<br>02I | (39) CEPH-11.00794<br>+41.50202 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE FI<br>NE | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.00794 +41.50202 P= 22.192d, F160W= 17.81 |                                 |                                 |                                      |               |              |                       |                                                                                                                            |                                 |       |
|           | 2                                                                  | CEPH-11.00<br>794+41.502<br>02V | (39) CEPH-11.00794<br>+41.50202 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.00794 +41.50202 P= 22.192d, F160W= 17.81 |                                 |                                 |                                      |               |              |                       |                                                                                                                            |                                 |       |
|           | 3                                                                  | CEPH-11.01<br>715+41.462<br>00V | (38) CEPH-11.01715<br>+41.46200 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.01715 +41.46200 P= 11.695d, F160W= 18.94 |                                 |                                 |                                      |               |              |                       |                                                                                                                            |                                 |       |
|           | 4                                                                  | CEPH-11.01<br>715+41.462<br>00V | (38) CEPH-11.01715<br>+41.46200 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.01715 +41.46200 P= 11.695d, F160W= 18.94 |                                 |                                 |                                      |               |              |                       |                                                                                                                            |                                 |       |
|           | 5                                                                  | CEPH-11.01<br>715+41.462<br>00I | (38) CEPH-11.01715<br>+41.46200 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.01715 +41.46200 P= 11.695d, F160W= 18.94 |                                 |                                 |                                      |               |              |                       |                                                                                                                            |                                 |       |
|           | 6                                                                  | CEPH-11.01<br>715+41.462<br>00I | (38) CEPH-11.01715<br>+41.46200 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.01715 +41.46200 P= 11.695d, F160W= 18.94 |                                 |                                 |                                      |               |              |                       |                                                                                                                            |                                 |       |
|           | 7                                                                  | CEPH-11.21<br>898+41.475<br>05I | (37) CEPH-11.21898<br>+41.47505 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.21898 +41.47505 P= 18.698d, F160W= 18.39 |                                 |                                 |                                      |               |              |                       |                                                                                                                            |                                 |       |
|           | 8                                                                  | CEPH-11.21<br>898+41.475<br>05I | (37) CEPH-11.21898<br>+41.47505 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.21898 +41.47505 P= 18.698d, F160W= 18.39 |                                 |                                 |                                      |               |              |                       |                                                                                                                            |                                 |       |

# Proposal 15146 - M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 1 (09) - A New Threshold of Preci...

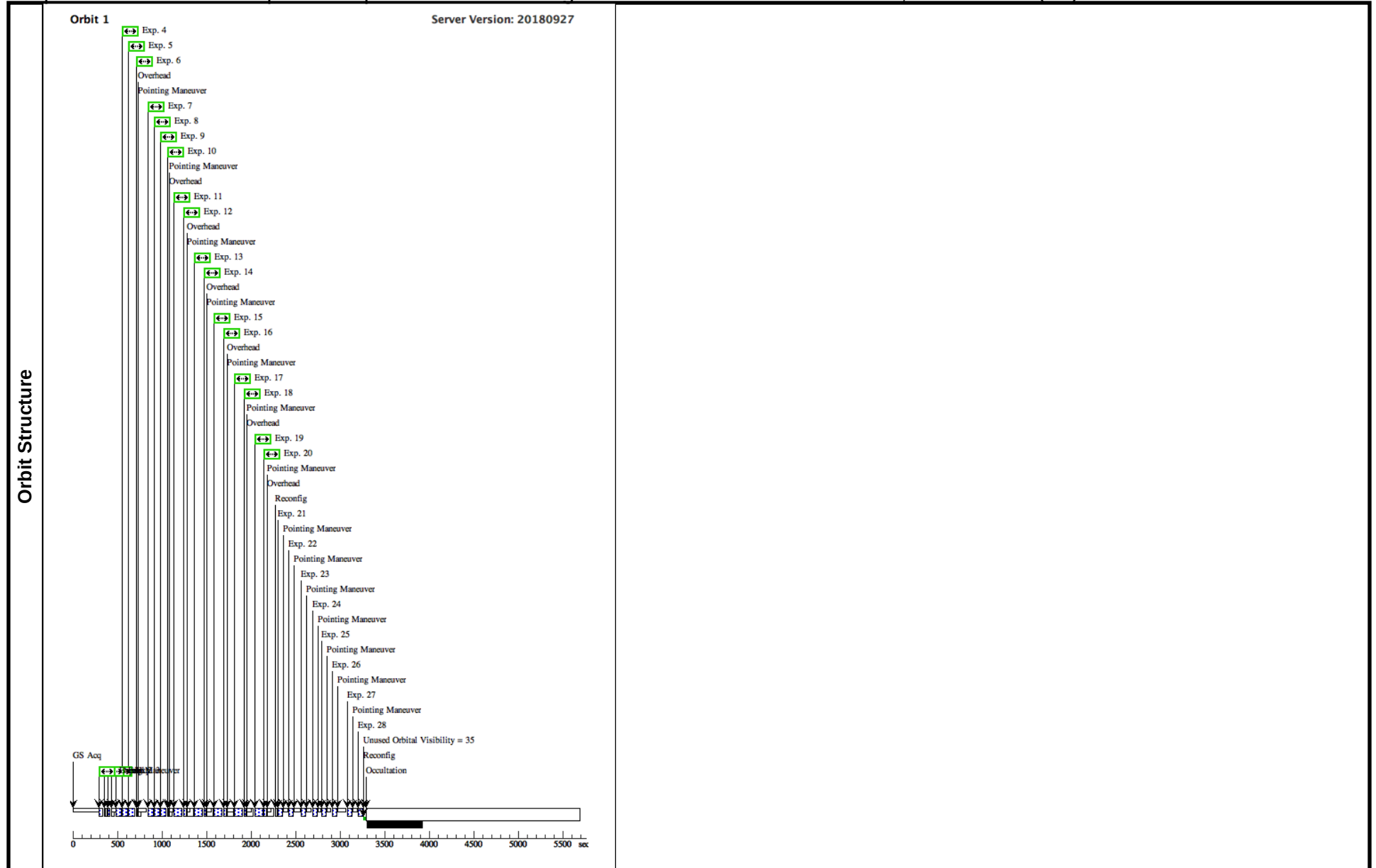
|                                                                                                                              |                                 |                                 |                                      |       |          |                       |                                                                                                                            |                               |     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|--------------------------------------|-------|----------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----|
| 9                                                                                                                            | CEPH-11.21<br>898+41.475<br>05V | (37) CEPH-11.21898<br>+41.47505 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.21898 +41.47505 P= 18.698d, F160W= 18.39                                                           |                                 |                                 |                                      |       |          |                       |                                                                                                                            |                               |     |
| 10                                                                                                                           | CEPH-11.21<br>898+41.475<br>05V | (37) CEPH-11.21898<br>+41.47505 | WFC3/UVIS, ACCUM,<br>UVIS2-C512C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.21898 +41.47505 P= 18.698d, F160W= 18.39                                                           |                                 |                                 |                                      |       |          |                       |                                                                                                                            |                               |     |
| 11                                                                                                                           | GRP-11.208<br>22+41.4491<br>7V  | (36) GRP-11.20822+<br>41.44917  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.20933 +41.45267 P= 15.510d, F160W= 18.46 11.20711 +41.44567 P= 4.133d, F160W= 20.1  |                                 |                                 |                                      |       |          |                       |                                                                                                                            |                               |     |
| 12                                                                                                                           | GRP-11.208<br>22+41.4491<br>7I  | (36) GRP-11.20822+<br>41.44917  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.20933 +41.45267 P= 15.510d, F160W= 18.46 11.20711 +41.44567 P= 4.133d, F160W= 20.1  |                                 |                                 |                                      |       |          |                       |                                                                                                                            |                               |     |
| 13                                                                                                                           | GRP-11.197<br>86+41.4479<br>2I  | (35) GRP-11.19786+<br>41.44792  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.19510 +41.44651 P= 25.577d, F160W= 17.88 11.20063 +41.44933 P= 21.201d, F160W= 18.0 |                                 |                                 |                                      |       |          |                       |                                                                                                                            |                               |     |
| 14                                                                                                                           | GRP-11.197<br>86+41.4479<br>2V  | (35) GRP-11.19786+<br>41.44792  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.19510 +41.44651 P= 25.577d, F160W= 17.88 11.20063 +41.44933 P= 21.201d, F160W= 18.0 |                                 |                                 |                                      |       |          |                       |                                                                                                                            |                               |     |
| 15                                                                                                                           | GRP-11.133<br>81+41.4098<br>4V  | (34) GRP-11.13381+<br>41.40984  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.13180 +41.41359 P= 12.773d, F160W= 18.61 11.13581 +41.40609 P= 19.780d, F160W= 18.5 |                                 |                                 |                                      |       |          |                       |                                                                                                                            |                               |     |
| 16                                                                                                                           | GRP-11.133<br>81+41.4098<br>4I  | (34) GRP-11.13381+<br>41.40984  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.13180 +41.41359 P= 12.773d, F160W= 18.61 11.13581 +41.40609 P= 19.780d, F160W= 18.5 |                                 |                                 |                                      |       |          |                       |                                                                                                                            |                               |     |

# Proposal 15146 - M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 1 (09) - A New Threshold of Preci...

|                                                                                                                              |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|--------------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 17                                                                                                                           | GRP-11.091<br>77+41.3217<br>0I | (33) GRP-11.09177+<br>41.32170 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.09090 +41.32205 P= 13.653d, F160W= 18.65 11.09263 +41.32135 P= 10.943d, F160W= 18.7 |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 18                                                                                                                           | GRP-11.091<br>77+41.3217<br>0V | (33) GRP-11.09177+<br>41.32170 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.09090 +41.32205 P= 13.653d, F160W= 18.65 11.09263 +41.32135 P= 10.943d, F160W= 18.7 |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 19                                                                                                                           | GRP-11.039<br>15+41.3069<br>2V | (32) GRP-11.03915+<br>41.30692 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.04021 +41.31038 P= 14.911d, F160W= 18.73 11.03809 +41.30346 P= 9.362d, F160W= 19.2  |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 20                                                                                                                           | GRP-11.039<br>15+41.3069<br>2I | (32) GRP-11.03915+<br>41.30692 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.04021 +41.31038 P= 14.911d, F160W= 18.73 11.03809 +41.30346 P= 9.362d, F160W= 19.2  |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 21                                                                                                                           | GRP-11.039<br>15+41.3069<br>2H | (32) GRP-11.03915+<br>41.30692 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.04021 +41.31038 P= 14.911d, F160W= 18.73 11.03809 +41.30346 P= 9.362d, F160W= 19.2  |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 22                                                                                                                           | GRP-11.091<br>77+41.3217<br>0H | (33) GRP-11.09177+<br>41.32170 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.09090 +41.32205 P= 13.653d, F160W= 18.65 11.09263 +41.32135 P= 10.943d, F160W= 18.7 |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 23                                                                                                                           | GRP-11.133<br>81+41.4098<br>4H | (34) GRP-11.13381+<br>41.40984 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.13180 +41.41359 P= 12.773d, F160W= 18.61 11.13581 +41.40609 P= 19.780d, F160W= 18.5 |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 24                                                                                                                           | GRP-11.197<br>86+41.4479<br>2H | (35) GRP-11.19786+<br>41.44792 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.19510 +41.44651 P= 25.577d, F160W= 17.88 11.20063 +41.44933 P= 21.201d, F160W= 18.0 |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |

Proposal 15146 - M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 1 (09) - A New Threshold of Preci...

|                                                                                                                             |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 25                                                                                                                          | GRP-11.208 (36) GRP-11.20822+<br>22+41.4491 41.44917<br>7H   | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.20933 +41.45267 P= 15.510d, F160W= 18.46 11.20711 +41.44567 P= 4.133d, F160W= 20.1 |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 26                                                                                                                          | CEPH-11.21 (37) CEPH-11.21898<br>898+41.475 +41.47505<br>05H | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.21898 +41.47505 P= 18.698d, F160W= 18.39                                                          |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 27                                                                                                                          | CEPH-11.01 (38) CEPH-11.01715<br>715+41.462 +41.46200<br>00H | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.01715 +41.46200 P= 11.695d, F160W= 18.94                                                          |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 28                                                                                                                          | CEPH-11.00 (39) CEPH-11.00794<br>794+41.502 +41.50202<br>02H | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 1 (09) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.00794 +41.50202 P= 22.192d, F160W= 17.81                                                          |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |



|       |                                                                                          |                              |
|-------|------------------------------------------------------------------------------------------|------------------------------|
| Visit | Proposal 15146, M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 2 | Mon Nov 05 18:02:00 GMT 2018 |
|       | (10), completed                                                                          |                              |
|       | Diagnostic Status: No Diagnostics                                                        |                              |
|       | Scientific Instruments: WFC3/IR, WFC3/UVIS                                               |                              |
|       | Special Requirements: SAME ORIENT AS 09; AFTER 09 BY 6 D TO 8 D                          |                              |





Proposal 15146 - M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 2 (10) - A New Threshold of Preci...

| Exposures | #                                                                  | Label                  | Target                       | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.     | Groups                                                                                                 | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|--------------------------------------------------------------------|------------------------|------------------------------|-----------------------------------|---------------|--------------|-------------------|--------------------------------------------------------------------------------------------------------|---------------------------------|-------|
|           | 1                                                                  | CEPH-11.00794+41.50202 | (39) CEPH-11.00794 +41.50202 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE FINE | Sequence 1-28 Non-Int in M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 2 (10) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.00794 +41.50202 P= 22.192d, F160W= 17.81 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 2                                                                  | CEPH-11.00794+41.50202 | (39) CEPH-11.00794 +41.50202 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-28 Non-Int in M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 2 (10) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.00794 +41.50202 P= 22.192d, F160W= 17.81 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 3                                                                  | CEPH-11.01715+41.46200 | (38) CEPH-11.01715 +41.46200 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-28 Non-Int in M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 2 (10) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.01715 +41.46200 P= 11.695d, F160W= 18.94 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 4                                                                  | CEPH-11.01715+41.46200 | (38) CEPH-11.01715 +41.46200 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-28 Non-Int in M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 2 (10) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.01715 +41.46200 P= 11.695d, F160W= 18.94 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 5                                                                  | CEPH-11.01715+41.46200 | (38) CEPH-11.01715 +41.46200 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-28 Non-Int in M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 2 (10) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.01715 +41.46200 P= 11.695d, F160W= 18.94 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 6                                                                  | CEPH-11.01715+41.46200 | (38) CEPH-11.01715 +41.46200 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-28 Non-Int in M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 2 (10) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.01715 +41.46200 P= 11.695d, F160W= 18.94 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 7                                                                  | CEPH-11.21898+41.47505 | (37) CEPH-11.21898 +41.47505 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-28 Non-Int in M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 2 (10) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.21898 +41.47505 P= 18.698d, F160W= 18.39 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |
|           | 8                                                                  | CEPH-11.21898+41.47505 | (37) CEPH-11.21898 +41.47505 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE GYRO | Sequence 1-28 Non-Int in M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 2 (10) | 10.00 Secs (10 Secs)<br>[==>]   | [1]   |
|           | Comments: M31 Cepheid: 11.21898 +41.47505 P= 18.698d, F160W= 18.39 |                        |                              |                                   |               |              |                   |                                                                                                        |                                 |       |

# Proposal 15146 - M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 2 (10) - A New Threshold of Preci...

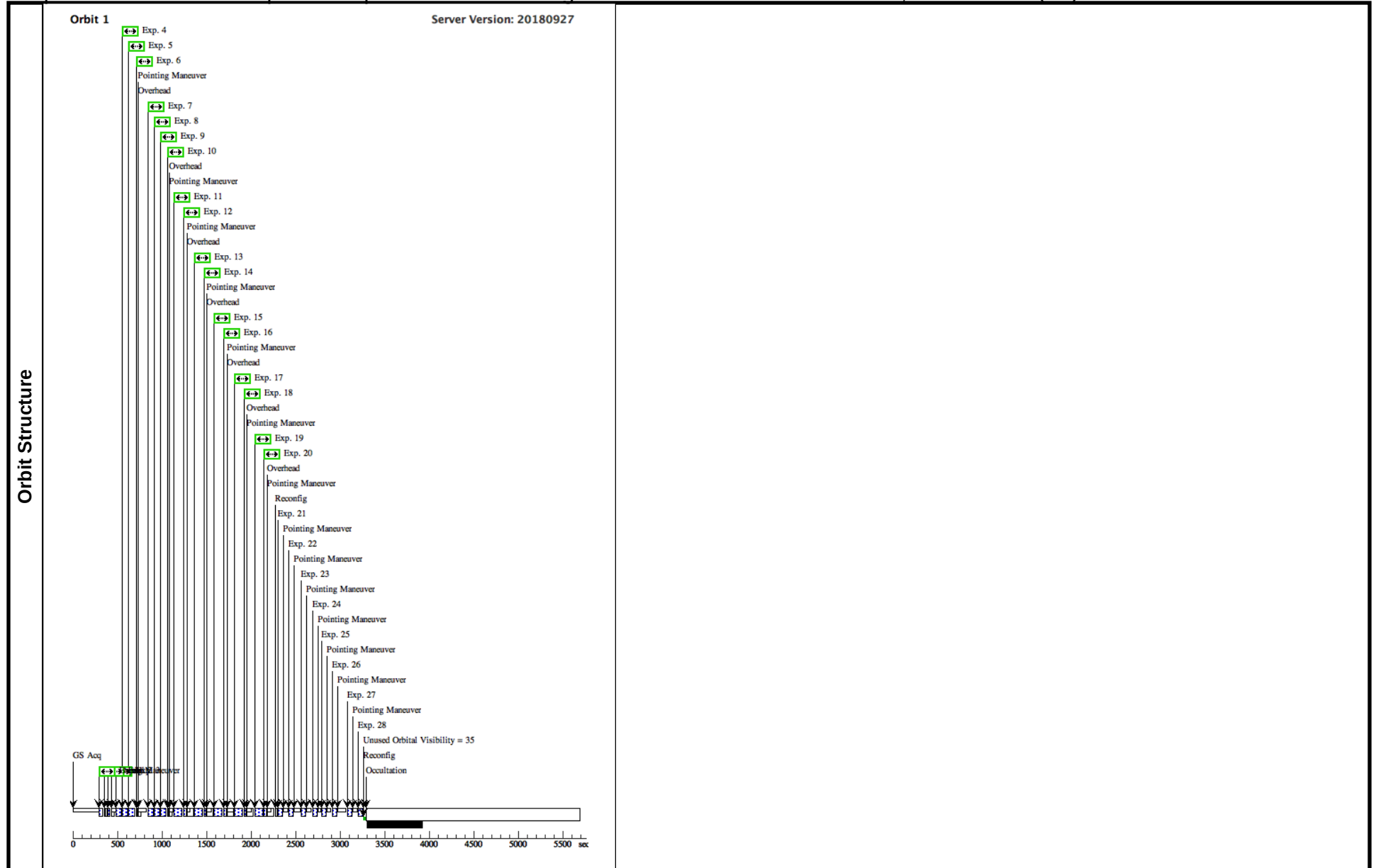
|                                                                                                                              |                                                                                                                           |                                                                                                                            |                      |     |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------|-----|
| 9                                                                                                                            | CEPH-11.21 (37) CEPH-11.21898 WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>898+41.475 +41.47505 UVIS2-C512C-SUB YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 10.00 Secs (10 Secs) | [1] |
| Comments: M31 Cepheid: 11.21898 +41.47505 P= 18.698d, F160W= 18.39                                                           |                                                                                                                           |                                                                                                                            |                      |     |
| 10                                                                                                                           | CEPH-11.21 (37) CEPH-11.21898 WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>898+41.475 +41.47505 UVIS2-C512C-SUB YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 10.00 Secs (10 Secs) | [1] |
| Comments: M31 Cepheid: 11.21898 +41.47505 P= 18.698d, F160W= 18.39                                                           |                                                                                                                           |                                                                                                                            |                      |     |
| 11                                                                                                                           | GRP-11.208 (36) GRP-11.20822+ WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>22+41.4491 41.44917 UVIS2-C1K1C-SUB YRO  | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 10.00 Secs (10 Secs) | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.20933 +41.45267 P= 15.510d, F160W= 18.46 11.20711 +41.44567 P= 4.133d, F160W= 20.1  |                                                                                                                           |                                                                                                                            |                      |     |
| 12                                                                                                                           | GRP-11.208 (36) GRP-11.20822+ WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>22+41.4491 41.44917 UVIS2-C1K1C-SUB YRO  | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 10.00 Secs (10 Secs) | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.20933 +41.45267 P= 15.510d, F160W= 18.46 11.20711 +41.44567 P= 4.133d, F160W= 20.1  |                                                                                                                           |                                                                                                                            |                      |     |
| 13                                                                                                                           | GRP-11.197 (35) GRP-11.19786+ WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>86+41.4479 41.44792 UVIS2-C1K1C-SUB YRO  | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 10.00 Secs (10 Secs) | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.19510 +41.44651 P= 25.577d, F160W= 17.88 11.20063 +41.44933 P= 21.201d, F160W= 18.0 |                                                                                                                           |                                                                                                                            |                      |     |
| 14                                                                                                                           | GRP-11.197 (35) GRP-11.19786+ WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>86+41.4479 41.44792 UVIS2-C1K1C-SUB YRO  | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 10.00 Secs (10 Secs) | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.19510 +41.44651 P= 25.577d, F160W= 17.88 11.20063 +41.44933 P= 21.201d, F160W= 18.0 |                                                                                                                           |                                                                                                                            |                      |     |
| 15                                                                                                                           | GRP-11.133 (34) GRP-11.13381+ WFC3/UVIS, ACCUM, F555W FLASH=12 EXP PCS MODE G<br>81+41.4098 41.40984 UVIS2-C1K1C-SUB YRO  | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 10.00 Secs (10 Secs) | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.13180 +41.41359 P= 12.773d, F160W= 18.61 11.13581 +41.40609 P= 19.780d, F160W= 18.5 |                                                                                                                           |                                                                                                                            |                      |     |
| 16                                                                                                                           | GRP-11.133 (34) GRP-11.13381+ WFC3/UVIS, ACCUM, F814W FLASH=12 EXP PCS MODE G<br>81+41.4098 41.40984 UVIS2-C1K1C-SUB YRO  | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 10.00 Secs (10 Secs) | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.13180 +41.41359 P= 12.773d, F160W= 18.61 11.13581 +41.40609 P= 19.780d, F160W= 18.5 |                                                                                                                           |                                                                                                                            |                      |     |

# Proposal 15146 - M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 2 (10) - A New Threshold of Preci...

|                                                                                                                              |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|--------------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 17                                                                                                                           | GRP-11.091<br>77+41.3217<br>0I | (33) GRP-11.09177+<br>41.32170 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.09090 +41.32205 P= 13.653d, F160W= 18.65 11.09263 +41.32135 P= 10.943d, F160W= 18.7 |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 18                                                                                                                           | GRP-11.091<br>77+41.3217<br>0V | (33) GRP-11.09177+<br>41.32170 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.09090 +41.32205 P= 13.653d, F160W= 18.65 11.09263 +41.32135 P= 10.943d, F160W= 18.7 |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 19                                                                                                                           | GRP-11.039<br>15+41.3069<br>2V | (32) GRP-11.03915+<br>41.30692 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.04021 +41.31038 P= 14.911d, F160W= 18.73 11.03809 +41.30346 P= 9.362d, F160W= 19.2  |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 20                                                                                                                           | GRP-11.039<br>15+41.3069<br>2I | (32) GRP-11.03915+<br>41.30692 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12                        | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 10.00 Secs (10 Secs)<br>[==>]         | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.04021 +41.31038 P= 14.911d, F160W= 18.73 11.03809 +41.30346 P= 9.362d, F160W= 19.2  |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 21                                                                                                                           | GRP-11.039<br>15+41.3069<br>2H | (32) GRP-11.03915+<br>41.30692 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.04021 +41.31038 P= 14.911d, F160W= 18.73 11.03809 +41.30346 P= 9.362d, F160W= 19.2  |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 22                                                                                                                           | GRP-11.091<br>77+41.3217<br>0H | (33) GRP-11.09177+<br>41.32170 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.09090 +41.32205 P= 13.653d, F160W= 18.65 11.09263 +41.32135 P= 10.943d, F160W= 18.7 |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 23                                                                                                                           | GRP-11.133<br>81+41.4098<br>4H | (34) GRP-11.13381+<br>41.40984 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.13180 +41.41359 P= 12.773d, F160W= 18.61 11.13581 +41.40609 P= 19.780d, F160W= 18.5 |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |
| 24                                                                                                                           | GRP-11.197<br>86+41.4479<br>2H | (35) GRP-11.19786+<br>41.44792 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.19510 +41.44651 P= 25.577d, F160W= 17.88 11.20063 +41.44933 P= 21.201d, F160W= 18.0 |                                |                                |                                      |       |                                 |                       |                                                                                                                            |                                       |     |

Proposal 15146 - M31 Cepheid Sequence 5 starting with CEPH-11.00794+41.50202; Execution 2 (10) - A New Threshold of Preci...

|                                                                                                                             |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------|-------|---------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----|
| 25                                                                                                                          | GRP-11.208 (36) GRP-11.20822+<br>22+41.4491 41.44917<br>7H   | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: Grouping of 2 M31 Cepheids: 11.20933 +41.45267 P= 15.510d, F160W= 18.46 11.20711 +41.44567 P= 4.133d, F160W= 20.1 |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 26                                                                                                                          | CEPH-11.21 (37) CEPH-11.21898<br>898+41.475 +41.47505<br>05H | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.21898 +41.47505 P= 18.698d, F160W= 18.39                                                          |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 27                                                                                                                          | CEPH-11.01 (38) CEPH-11.01715<br>715+41.462 +41.46200<br>00H | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.01715 +41.46200 P= 11.695d, F160W= 18.94                                                          |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |
| 28                                                                                                                          | CEPH-11.00 (39) CEPH-11.00794<br>794+41.502 +41.50202<br>02H | WFC3/IR, MULTIACCUM,<br>IRSUB512 | F160W | NSAMP=8;<br>SAMP-SEQ=SPAR<br>S5 | EXP PCS MODE G<br>YRO | Sequence 1-28 Non-I<br>nt in M31 Cepheid S<br>equence 5 startin<br>g with CEPH-11.007<br>94+41.50202; Execu<br>tion 2 (10) | 21.303576 Secs (21.304 Secs)<br>[==>] | [1] |
| Comments: M31 Cepheid: 11.00794 +41.50202 P= 22.192d, F160W= 17.81                                                          |                                                              |                                  |       |                                 |                       |                                                                                                                            |                                       |     |



|       |                                                                           |                              |
|-------|---------------------------------------------------------------------------|------------------------------|
| Visit | Proposal 15146, LMC Sequence      0 starting with OGL1862 (11), completed | Mon Nov 05 18:02:00 GMT 2018 |
|       | Diagnostic Status: No Diagnostics                                         |                              |
|       | Scientific Instruments: WFC3/IR, WFC3/UVIS                                |                              |
|       | Special Requirements: (none)                                              |                              |



Proposal 15146 - LMC Sequence 0 starting with OGL1862 (11) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

|                                                                                                                                                    |         |                                                                                    |                   |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------|-------------------|-------------------------|
| (48)                                                                                                                                               | OGL1945 | RA: 05 25 31.4496 (81.3810400d)<br>Dec: -69 50 3.70 (-69.83436d)<br>Equinox: J2000 | V=(?)<br>H= 13.54 | Reference Frame: SIMBAD |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i><br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                    |                   |                         |

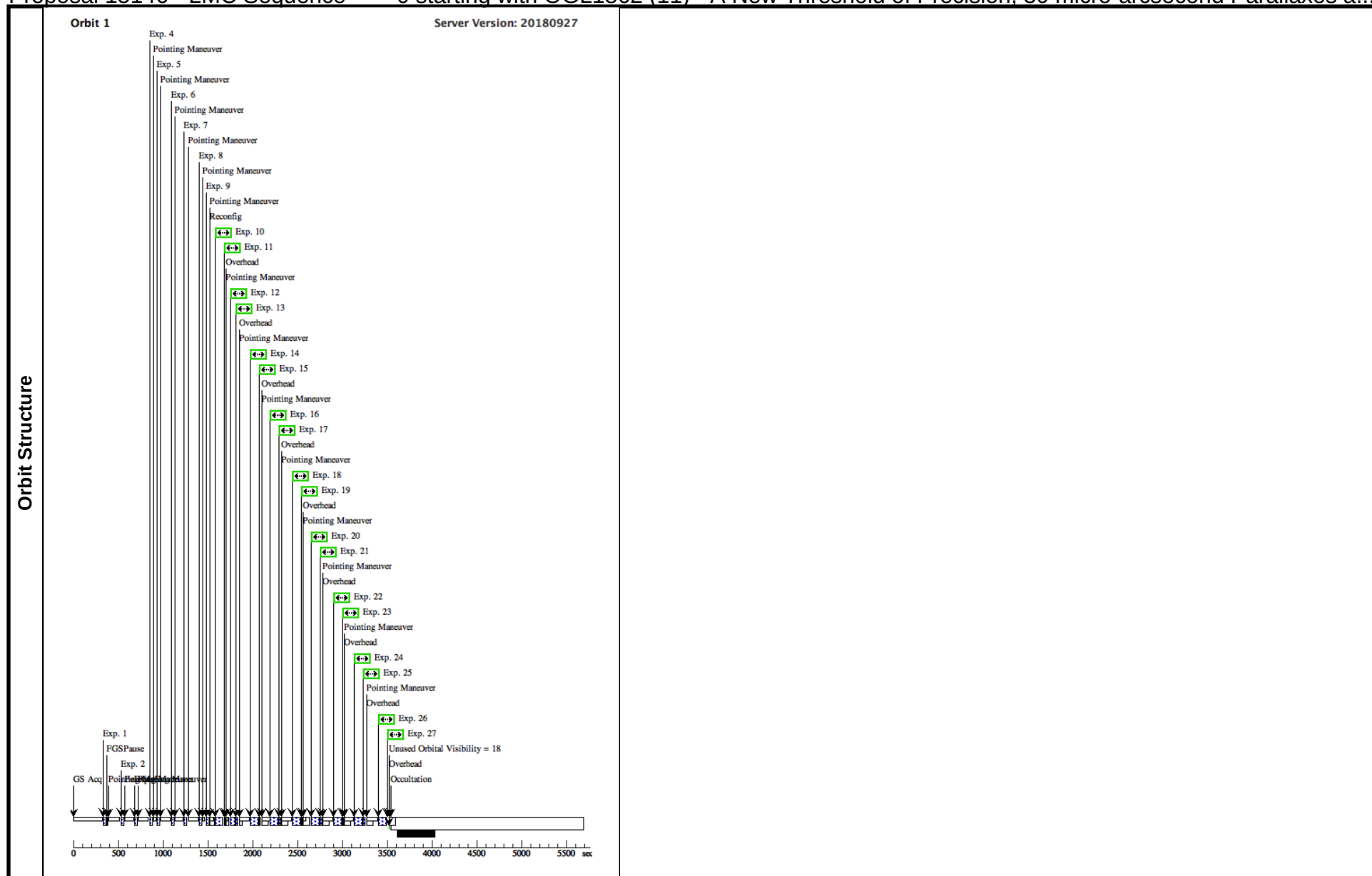


Proposal 15146 - LMC Sequence 0 starting with OGL1862 (11) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

| Exposures | #  | Label    | Target       | Config,Mode,Aperture              | Spectral Els. | Opt. Params.               | Special Reqs.         | Groups                                                                        | Exp. Time (Total)/[Actual Dur.]    | Orbit |
|-----------|----|----------|--------------|-----------------------------------|---------------|----------------------------|-----------------------|-------------------------------------------------------------------------------|------------------------------------|-------|
|           | 1  | OGL1862H | (40) OGL1862 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE FI<br>NE | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 2  | OGL1994H | (41) OGL1994 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 3  | OGL2012H | (42) OGL2012 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 4  | OGL1939H | (43) OGL1939 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 5  | OGL1941H | (44) OGL1941 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 6  | OGL2043H | (45) OGL2043 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 7  | OGL2019H | (46) OGL2019 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 8  | OGL1940H | (47) OGL1940 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 9  | OGL1945H | (48) OGL1945 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 10 | OGL1945I | (48) OGL1945 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 11 | OGL1945V | (48) OGL1945 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 12 | OGL1940V | (47) OGL1940 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 13 | OGL1940I | (47) OGL1940 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 14 | OGL2019I | (46) OGL2019 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |

Proposal 15146 - LMC Sequence 0 starting with OGL1862 (11) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

|    |          |              |                                      |       |          |                       |                                                                               |                              |     |
|----|----------|--------------|--------------------------------------|-------|----------|-----------------------|-------------------------------------------------------------------------------|------------------------------|-----|
| 15 | OGL2019V | (46) OGL2019 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 16 | OGL2043V | (45) OGL2043 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 17 | OGL2043I | (45) OGL2043 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 18 | OGL1941I | (44) OGL1941 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 19 | OGL1941V | (44) OGL1941 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 20 | OGL1939V | (43) OGL1939 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 21 | OGL1939I | (43) OGL1939 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 22 | OGL2012I | (42) OGL2012 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 23 | OGL2012V | (42) OGL2012 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 24 | OGL1994V | (41) OGL1994 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 25 | OGL1994I | (41) OGL1994 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 26 | OGL1862I | (40) OGL1862 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 27 | OGL1862V | (40) OGL1862 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>0 starting with OGL1<br>862 (11) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |



|       |                                                                      |                              |
|-------|----------------------------------------------------------------------|------------------------------|
| Visit | Proposal 15146, LMC Sequence 1 starting with OGL1677 (12), completed | Mon Nov 05 18:02:00 GMT 2018 |
|       | Diagnostic Status: No Diagnostics                                    |                              |
|       | Scientific Instruments: WFC3/IR, WFC3/UVIS                           |                              |
|       | Special Requirements: (none)                                         |                              |

# Proposal 15146 - LMC Sequence 1 starting with OGL1677 (12) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

| Fixed Targets | #                                                                                                                                           | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes            | Miscellaneous           |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|-------------------|-------------------------|
|               | (49)                                                                                                                                        | OGL1677 | RA: 05 21 12.4704 (80.3019600d)<br>Dec: -69 03 7.60 (-69.05211d)<br>Equinox: J2000  |                          | V=(?)<br>H= 11.62 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (50)                                                                                                                                        | OGL1637 | RA: 05 20 22.9992 (80.0958300d)<br>Dec: -69 02 17.48 (-69.03819d)<br>Equinox: J2000 |                          | V=(?)<br>H= 11.24 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (51)                                                                                                                                        | OGL1641 | RA: 05 20 28.6296 (80.1192900d)<br>Dec: -69 01 31.80 (-69.02550d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.31 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (52)                                                                                                                                        | OGL1616 | RA: 05 19 59.9304 (79.9997100d)<br>Dec: -69 10 25.50 (-69.17375d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.44 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (53)                                                                                                                                        | OGL1539 | RA: 05 18 22.0992 (79.5920800d)<br>Dec: -69 21 47.41 (-69.36317d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.35 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (54)                                                                                                                                        | OGL1466 | RA: 05 16 58.6488 (79.2443700d)<br>Dec: -69 23 38.11 (-69.39392d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.61 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (55)                                                                                                                                        | OGL1374 | RA: 05 15 25.7304 (78.8572100d)<br>Dec: -69 20 27.31 (-69.34092d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.48 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (56)                                                                                                                                        | OGL1424 | RA: 05 16 3.8400 (79.0160000d)<br>Dec: -69 14 52.40 (-69.24789d)<br>Equinox: J2000  |                          | V=(?)<br>H= 13.62 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |

Proposal 15146 - LMC Sequence 1 starting with OGL1677 (12) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

|                                                                                                                                                    |         |                                                                                     |                   |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-------------------|-------------------------|
| (57)                                                                                                                                               | OGL1389 | RA: 05 15 38.3688 (78.9098700d)<br>Dec: -69 15 19.80 (-69.25550d)<br>Equinox: J2000 | V=(?)<br>H= 13.19 | Reference Frame: SIMBAD |
| <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i><br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                   |                         |

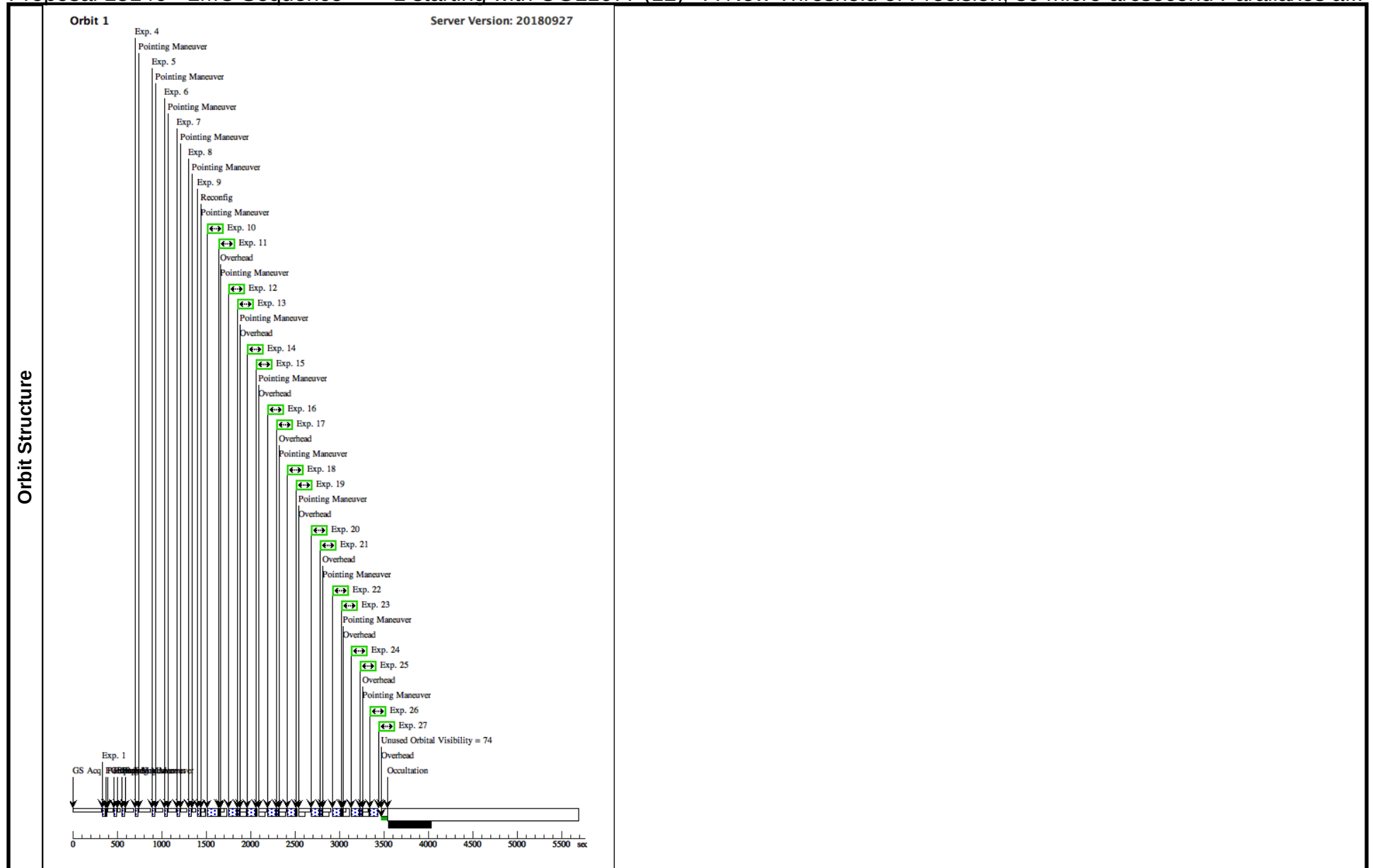
Proposal 15146 - LMC Sequence 1 starting with OGL1677 (12) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

| Exposures | #  | Label    | Target       | Config,Mode,Aperture              | Spectral Els. | Opt. Params.               | Special Reqs.                                         | Groups                                                                        | Exp. Time (Total)/[Actual Dur.]    | Orbit |
|-----------|----|----------|--------------|-----------------------------------|---------------|----------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------|-------|
|           | 1  | OGL1677H | (49) OGL1677 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE FI<br>NE;<br>GS ACQ SCENARI<br>O BASE1B3 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 2  | OGL1637H | (50) OGL1637 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO                                 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 3  | OGL1641H | (51) OGL1641 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO                                 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 4  | OGL1616H | (52) OGL1616 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO                                 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 5  | OGL1539H | (53) OGL1539 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO                                 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 6  | OGL1466H | (54) OGL1466 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO                                 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 7  | OGL1374H | (55) OGL1374 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO                                 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 8  | OGL1424H | (56) OGL1424 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO                                 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 9  | OGL1389H | (57) OGL1389 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO                                 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 10 | OGL1389I | (57) OGL1389 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO                                 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 11 | OGL1389V | (57) OGL1389 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO                                 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 12 | OGL1424V | (56) OGL1424 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO                                 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 13 | OGL1424I | (56) OGL1424 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO                                 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 14 | OGL1374I | (55) OGL1374 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO                                 | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |

Proposal 15146 - LMC Sequence 1 starting with OGL1677 (12) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

|    |          |              |                                      |       |          |                       |                                                                               |                              |     |
|----|----------|--------------|--------------------------------------|-------|----------|-----------------------|-------------------------------------------------------------------------------|------------------------------|-----|
| 15 | OGL1374V | (55) OGL1374 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 16 | OGL1466V | (54) OGL1466 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 17 | OGL1466I | (54) OGL1466 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 18 | OGL1539I | (53) OGL1539 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 19 | OGL1539V | (53) OGL1539 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 20 | OGL1616V | (52) OGL1616 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 21 | OGL1616I | (52) OGL1616 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 22 | OGL1641I | (51) OGL1641 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 23 | OGL1641V | (51) OGL1641 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 24 | OGL1637V | (50) OGL1637 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 25 | OGL1637I | (50) OGL1637 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 26 | OGL1677I | (49) OGL1677 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 27 | OGL1677V | (49) OGL1677 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-27 Non-I<br>nt in LMC Sequence<br>1 starting with OGL1<br>677 (12) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |





|       |                                                                   |                              |
|-------|-------------------------------------------------------------------|------------------------------|
| Visit | Proposal 15146, LMC Sequence 2 starting with OGL1442 (13), failed | Mon Nov 05 18:02:00 GMT 2018 |
|       | Diagnostic Status: No Diagnostics                                 |                              |
|       | Scientific Instruments: WFC3/IR, WFC3/UVIS                        |                              |
|       | Special Requirements: (none)                                      |                              |

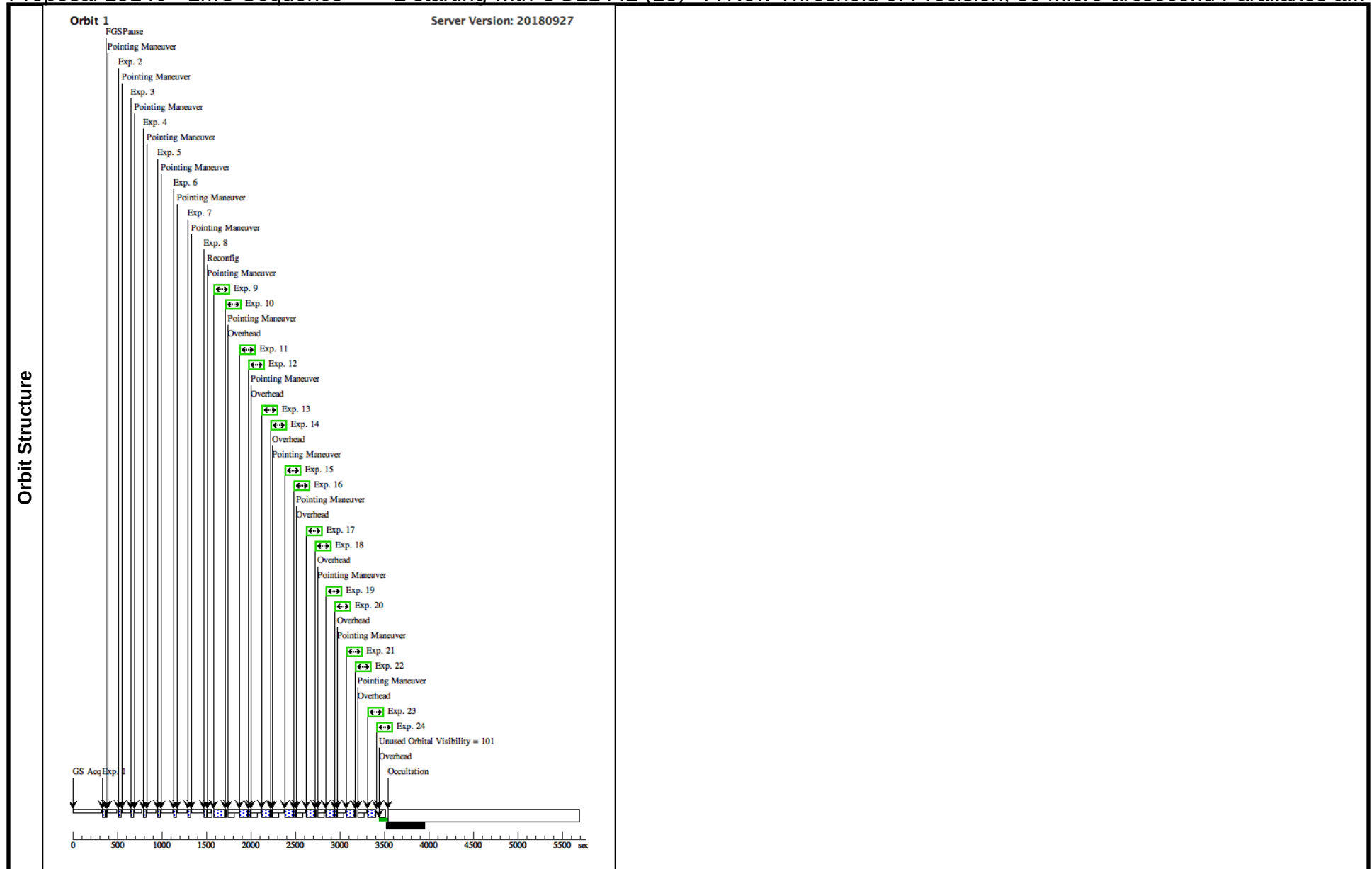


Proposal 15146 - LMC Sequence 2 starting with OGL1442 (13) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

| Exposures | #  | Label    | Target       | Config,Mode,Aperture              | Spectral Els. | Opt. Params.               | Special Reqs.         | Groups                                                                        | Exp. Time (Total)/[Actual Dur.]    | Orbit |
|-----------|----|----------|--------------|-----------------------------------|---------------|----------------------------|-----------------------|-------------------------------------------------------------------------------|------------------------------------|-------|
|           | 1  | OGL1442H | (58) OGL1442 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE FI<br>NE | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 2  | OGL1404H | (59) OGL1404 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 3  | OGL1313H | (60) OGL1313 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 4  | OGL1353H | (61) OGL1353 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 5  | OGL1417H | (62) OGL1417 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 6  | OGL1463H | (63) OGL1463 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 7  | OGL1364H | (64) OGL1364 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 8  | OGL1262H | (65) OGL1262 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 9  | OGL1262I | (65) OGL1262 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 10 | OGL1262V | (65) OGL1262 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 11 | OGL1364V | (64) OGL1364 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 12 | OGL1364I | (64) OGL1364 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 13 | OGL1463I | (63) OGL1463 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 14 | OGL1463V | (63) OGL1463 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |

Proposal 15146 - LMC Sequence 2 starting with OGL1442 (13) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

|    |          |              |                                      |       |          |                       |                                                                               |                              |     |
|----|----------|--------------|--------------------------------------|-------|----------|-----------------------|-------------------------------------------------------------------------------|------------------------------|-----|
| 15 | OGL1417V | (62) OGL1417 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 16 | OGL1417I | (62) OGL1417 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 17 | OGL1353I | (61) OGL1353 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 18 | OGL1353V | (61) OGL1353 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 19 | OGL1313V | (60) OGL1313 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 20 | OGL1313I | (60) OGL1313 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 21 | OGL1404I | (59) OGL1404 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 22 | OGL1404V | (59) OGL1404 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 23 | OGL1442V | (58) OGL1442 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 24 | OGL1442I | (58) OGL1442 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>2 starting with OGL1<br>442 (13) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |



Proposal 15146 - revisit 12,13 targets (20) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

|             |                                                                                                                                                                                             |                              |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Visit       | <div>Proposal 15146, revisit 12,13 targets (20), completed</div> <div>Diagnostic Status: Warning</div> <div>Scientific Instruments: WFC3/UVIS</div> <div>Special Requirements: (none)</div> | Mon Nov 05 18:02:00 GMT 2018 |
| Diagnostics | (OGL1364V (20.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser                                 |                              |

# Proposal 15146 - revisit 12,13 targets (20) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

| Fixed Targets | #                                                                                                                                           | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes            | Miscellaneous           |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|-------------------|-------------------------|
|               | (49)                                                                                                                                        | OGL1677 | RA: 05 21 12.4704 (80.3019600d)<br>Dec: -69 03 7.60 (-69.05211d)<br>Equinox: J2000  |                          | V=(?)<br>H= 11.62 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (50)                                                                                                                                        | OGL1637 | RA: 05 20 22.9992 (80.0958300d)<br>Dec: -69 02 17.48 (-69.03819d)<br>Equinox: J2000 |                          | V=(?)<br>H= 11.24 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (51)                                                                                                                                        | OGL1641 | RA: 05 20 28.6296 (80.1192900d)<br>Dec: -69 01 31.80 (-69.02550d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.31 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (52)                                                                                                                                        | OGL1616 | RA: 05 19 59.9304 (79.9997100d)<br>Dec: -69 10 25.50 (-69.17375d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.44 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (58)                                                                                                                                        | OGL1442 | RA: 05 16 19.6296 (79.0817900d)<br>Dec: -69 18 20.20 (-69.30561d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.19 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (59)                                                                                                                                        | OGL1404 | RA: 05 15 52.4304 (78.9684600d)<br>Dec: -69 28 16.00 (-69.47111d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.47 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (60)                                                                                                                                        | OGL1313 | RA: 05 14 19.3800 (78.5807500d)<br>Dec: -69 29 24.22 (-69.49006d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.40 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (61)                                                                                                                                        | OGL1353 | RA: 05 15 10.4208 (78.7934200d)<br>Dec: -69 22 58.01 (-69.38278d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.15 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |



# Proposal 15146 - revisit 12,13 targets (20) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

|                                                                                                                                             |         |                                                                                     |                   |                         |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-------------------|-------------------------|
| (62)                                                                                                                                        | OGL1417 | RA: 05 16 0.2208 (79.0009200d)<br>Dec: -69 32 17.41 (-69.53817d)<br>Equinox: J2000  | V=(?)<br>H= 13.03 | Reference Frame: SIMBAD |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                   |                         |
| (63)                                                                                                                                        | OGL1463 | RA: 05 16 54.8904 (79.2287100d)<br>Dec: -69 19 50.41 (-69.33067d)<br>Equinox: J2000 | V=(?)<br>H= 13.18 | Reference Frame: SIMBAD |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                   |                         |
| (64)                                                                                                                                        | OGL1364 | RA: 05 15 18.7800 (78.8282500d)<br>Dec: -69 13 31.91 (-69.22553d)<br>Equinox: J2000 | V=(?)<br>H= 13.13 | Reference Frame: SIMBAD |
| Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                   |                         |

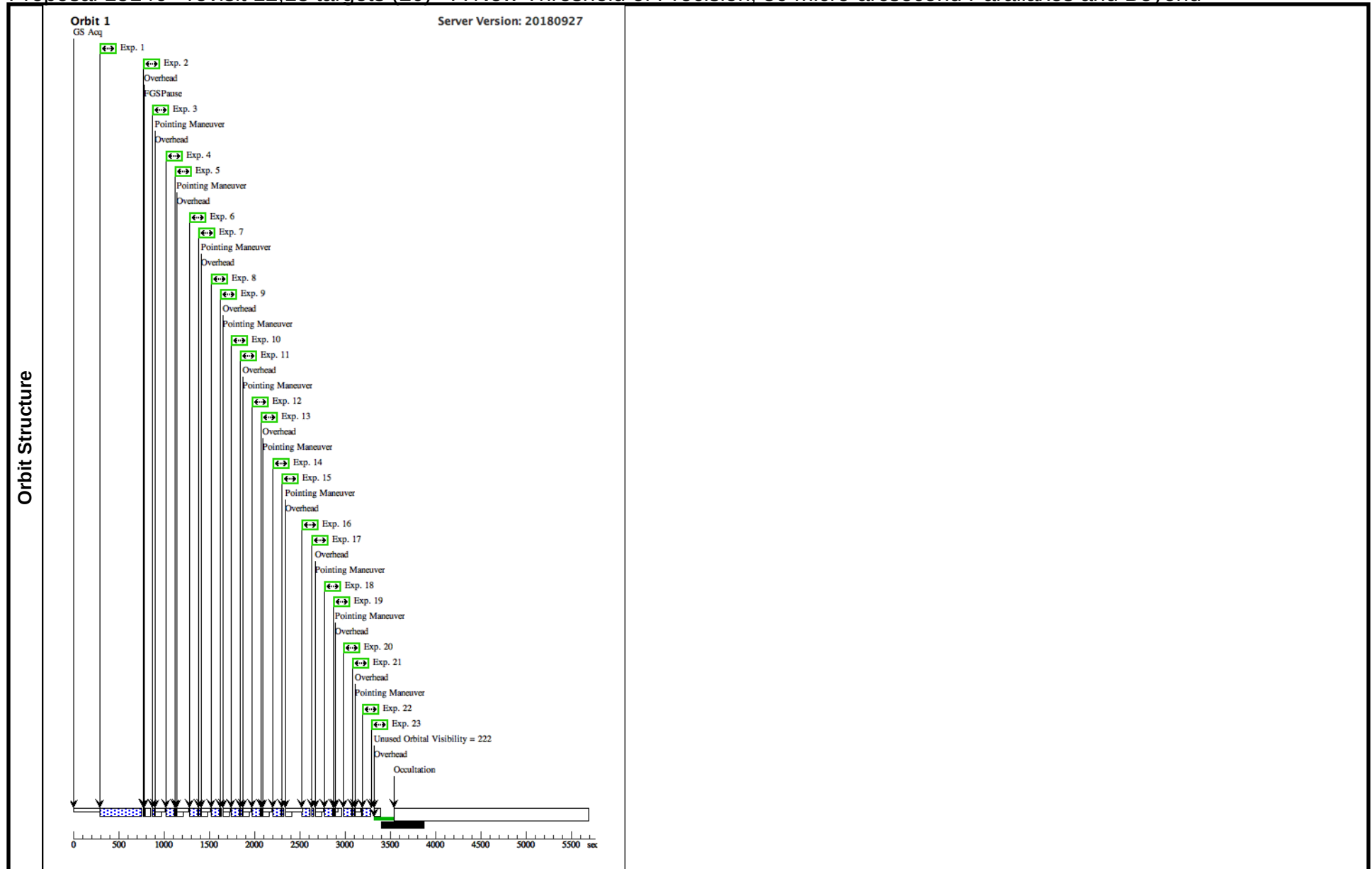
# Proposal 15146 - revisit 12,13 targets (20) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

| Exposures | #  | Label    | Target       | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.      | Groups                                                | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|----|----------|--------------|-----------------------------------|---------------|--------------|--------------------|-------------------------------------------------------|---------------------------------|-------|
|           | 1  | OGL1364V | (64) OGL1364 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE FI NE | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 350 Secs (350 Secs)<br>[==>]    | [1]   |
|           | 2  | OGL1364V | (64) OGL1364 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE FI NE | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 3  | OGL1364I | (64) OGL1364 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 4  | OGL1463I | (63) OGL1463 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 5  | OGL1463V | (63) OGL1463 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 6  | OGL1417V | (62) OGL1417 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 7  | OGL1417I | (62) OGL1417 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 8  | OGL1353I | (61) OGL1353 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 9  | OGL1353V | (61) OGL1353 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 10 | OGL1313V | (60) OGL1313 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 11 | OGL1313I | (60) OGL1313 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 12 | OGL1404I | (59) OGL1404 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 13 | OGL1404V | (59) OGL1404 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 14 | OGL1442V | (58) OGL1442 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 15 | OGL1442I | (58) OGL1442 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 16 | OGL1616V | (52) OGL1616 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 17 | OGL1616I | (52) OGL1616 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 18 | OGL1641I | (51) OGL1641 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-23 Non-I nt in revisit 12,13 tar gets (20) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |

# Proposal 15146 - revisit 12,13 targets (20) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

|  |    |          |              |                                      |       |          |                       |                                                             |                              |     |
|--|----|----------|--------------|--------------------------------------|-------|----------|-----------------------|-------------------------------------------------------------|------------------------------|-----|
|  | 19 | OGL1641V | (51) OGL1641 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-23 Non-I<br>nt in revisit 12,13 tar<br>gets (20) | 2.5 Secs (2.5 Secs)<br>[==>] |     |
|  | 20 | OGL1637V | (50) OGL1637 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-23 Non-I<br>nt in revisit 12,13 tar<br>gets (20) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
|  | 21 | OGL1637I | (50) OGL1637 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-23 Non-I<br>nt in revisit 12,13 tar<br>gets (20) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
|  | 22 | OGL1677I | (49) OGL1677 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-23 Non-I<br>nt in revisit 12,13 tar<br>gets (20) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
|  | 23 | OGL1677V | (49) OGL1677 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-23 Non-I<br>nt in revisit 12,13 tar<br>gets (20) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
|  |    |          |              |                                      |       |          |                       |                                                             |                              |     |
|  |    |          |              |                                      |       |          |                       |                                                             |                              |     |
|  |    |          |              |                                      |       |          |                       |                                                             |                              |     |
|  |    |          |              |                                      |       |          |                       |                                                             |                              |     |
|  |    |          |              |                                      |       |          |                       |                                                             |                              |     |

# Proposal 15146 - revisit 12,13 targets (20) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond



# Proposal 15146 - LMC Sequence 3 starting with OGL2795 (14) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

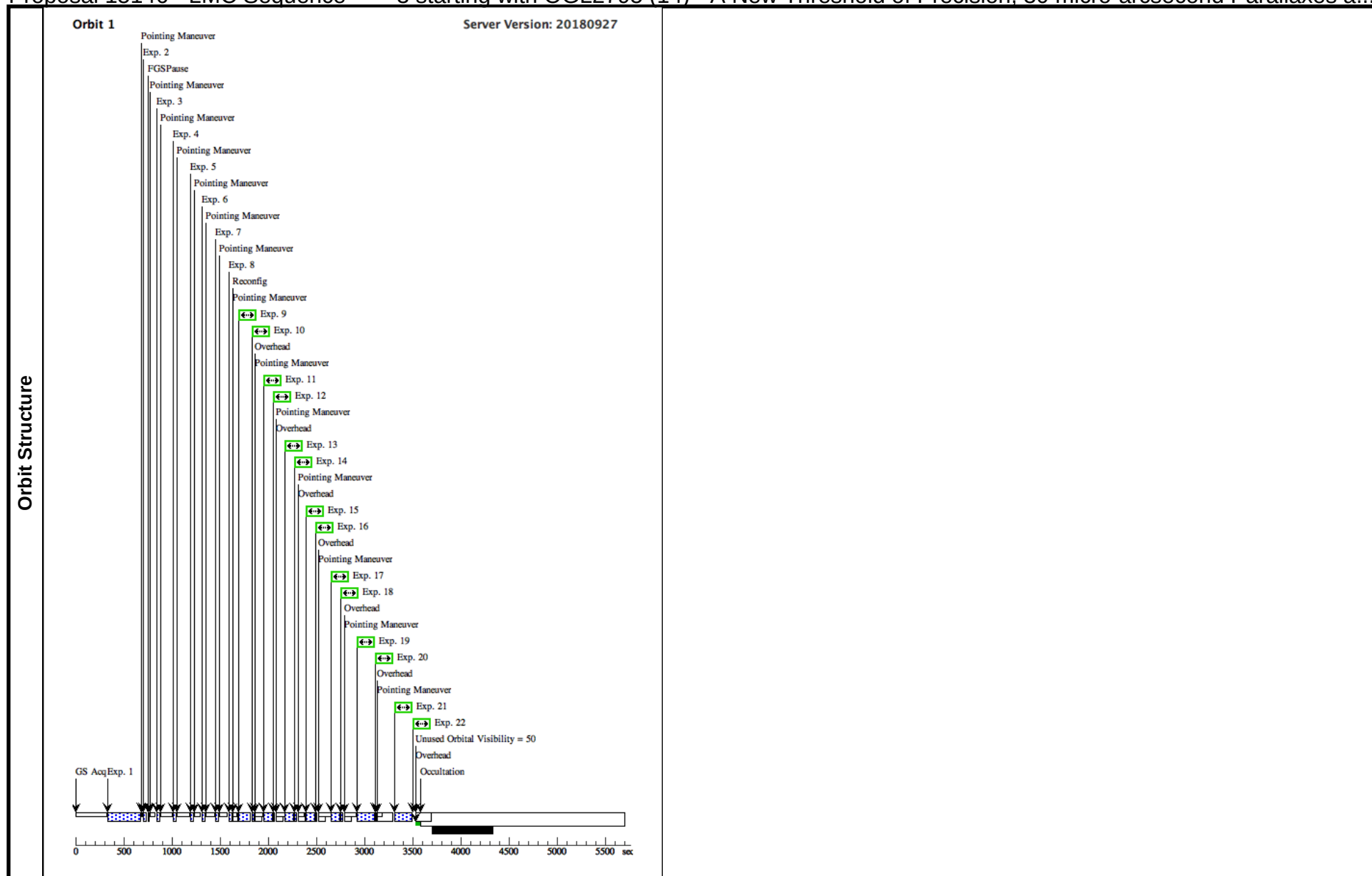
|               |                                                                                                                                                                                      |         |                                                                                     |                          |                   |                              |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|-------------------|------------------------------|
| Visit         | Proposal 15146, LMC Sequence 3 starting with OGL2795 (14), failed<br>Diagnostic Status: No Diagnostics<br>Scientific Instruments: WFC3/IR, WFC3/UVIS<br>Special Requirements: (none) |         |                                                                                     |                          |                   | Mon Nov 05 18:02:00 GMT 2018 |
|               |                                                                                                                                                                                      |         |                                                                                     |                          |                   |                              |
| Fixed Targets | #                                                                                                                                                                                    | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes            | Miscellaneous                |
|               | (67)                                                                                                                                                                                 | OGL2812 | RA: 05 39 38.3592 (84.9098300d)<br>Dec: -70 23 19.28 (-70.38869d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.06 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |
|               | (68)                                                                                                                                                                                 | OGL2775 | RA: 05 39 8.0592 (84.7835800d)<br>Dec: -70 20 16.58 (-70.33794d)<br>Equinox: J2000  |                          | V=(?)<br>H= 13.11 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |
|               | (69)                                                                                                                                                                                 | OGL2694 | RA: 05 38 3.6696 (84.5152900d)<br>Dec: -70 31 31.80 (-70.52550d)<br>Equinox: J2000  |                          | V=(?)<br>H= 13.60 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |
|               | (70)                                                                                                                                                                                 | OGL2762 | RA: 05 38 54.6384 (84.7276600d)<br>Dec: -70 18 42.48 (-70.31180d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.80 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |
|               | (71)                                                                                                                                                                                 | OGL2765 | RA: 05 38 56.2512 (84.7343800d)<br>Dec: -70 23 2.04 (-70.38390d)<br>Equinox: J2000  |                          | V=(?)<br>H= 13.15 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |
|               | (72)                                                                                                                                                                                 | OGL2866 | RA: 05 40 26.6688 (85.1111200d)<br>Dec: -70 19 57.79 (-70.33272d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.55 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |
|               | (73)                                                                                                                                                                                 | OGL2805 | RA: 05 39 32.3496 (84.8847900d)<br>Dec: -70 26 28.28 (-70.44119d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.47 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |

Proposal 15146 - LMC Sequence 3 starting with OGL2795 (14) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

| Exposures | #  | Label    | Target       | Config,Mode,Aperture              | Spectral Els. | Opt. Params.                  | Special Reqs.                          | Groups                                                             | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|----------|--------------|-----------------------------------|---------------|-------------------------------|----------------------------------------|--------------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  | OGL2812H | (67) OGL2812 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=15;<br>SAMP-SEQ=SPARS25 | POS TARG 2,2;<br>EXP PCS MODE FI<br>NE | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 313.122361 Secs (313.122 Secs)<br>[==>] | [1]   |
|           | 2  | OGL2812H | (67) OGL2812 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE FI<br>NE                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 3  | OGL2775H | (68) OGL2775 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE G<br>YRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 4  | OGL2694H | (69) OGL2694 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE G<br>YRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 5  | OGL2762H | (70) OGL2762 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE G<br>YRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 6  | OGL2765H | (71) OGL2765 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE G<br>YRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 7  | OGL2866H | (72) OGL2866 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE G<br>YRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 8  | OGL2805H | (73) OGL2805 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE G<br>YRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 9  | OGL2805V | (73) OGL2805 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                      | EXP PCS MODE G<br>YRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 10 | OGL2805I | (73) OGL2805 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                      | EXP PCS MODE G<br>YRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 11 | OGL2866I | (72) OGL2866 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                      | EXP PCS MODE G<br>YRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 12 | OGL2866V | (72) OGL2866 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                      | EXP PCS MODE G<br>YRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 13 | OGL2765V | (71) OGL2765 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                      | EXP PCS MODE G<br>YRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 14 | OGL2765I | (71) OGL2765 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                      | EXP PCS MODE G<br>YRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (14) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |

Proposal 15146 - LMC Sequence 3 starting with OGL2795 (14) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

|    |          |              |                                      |       |          |                       |                                                                               |                              |     |
|----|----------|--------------|--------------------------------------|-------|----------|-----------------------|-------------------------------------------------------------------------------|------------------------------|-----|
| 15 | OGL2762I | (70) OGL2762 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (14) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 16 | OGL2762V | (70) OGL2762 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (14) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 17 | OGL2694V | (69) OGL2694 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (14) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 18 | OGL2694I | (69) OGL2694 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (14) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 19 | OGL2775I | (68) OGL2775 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (14) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 20 | OGL2775V | (68) OGL2775 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (14) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 21 | OGL2812V | (67) OGL2812 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (14) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 22 | OGL2812I | (67) OGL2812 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (14) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |





# Proposal 15146 - LMC Sequence 3 starting with OGL2795 (21) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

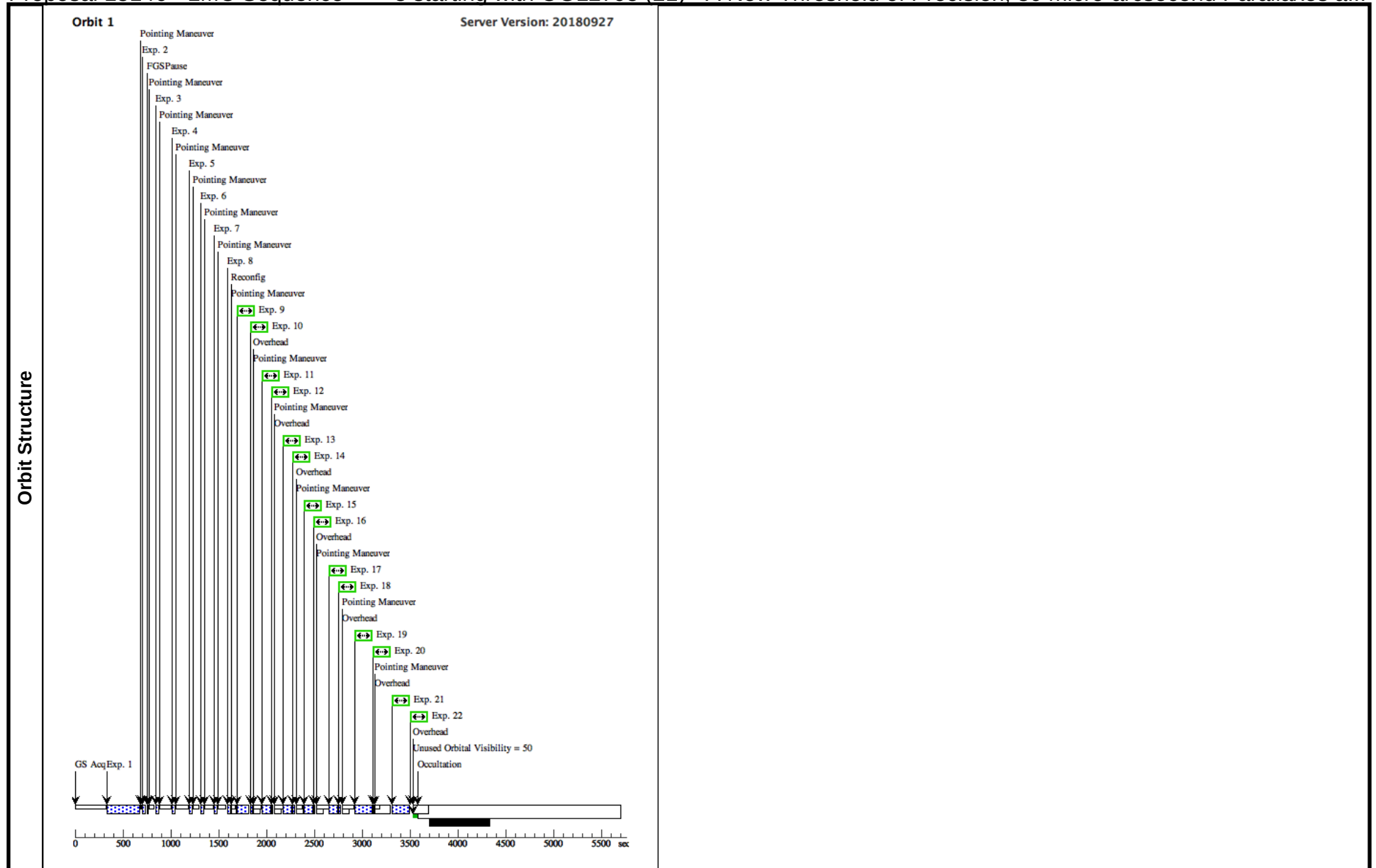
|               |                                                                                                                                             |         |                                                                                     |                          |                   |                              |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|-------------------|------------------------------|
| Visit         | Proposal 15146, LMC Sequence 3 starting with OGL2795 (21), withdrawn                                                                        |         |                                                                                     |                          |                   | Mon Nov 05 18:02:00 GMT 2018 |
|               | Diagnostic Status: No Diagnostics                                                                                                           |         |                                                                                     |                          |                   |                              |
|               | Scientific Instruments: WFC3/IR, WFC3/UVIS                                                                                                  |         |                                                                                     |                          |                   |                              |
|               | Special Requirements: ON HOLD                                                                                                               |         |                                                                                     |                          |                   |                              |
|               | Comments: HOPR repeat of visit 14.<br>On Hold Comments: Waiting on outcome of visits 30 - 32.                                               |         |                                                                                     |                          |                   |                              |
| Fixed Targets | #                                                                                                                                           | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes            | Miscellaneous                |
|               | (67)                                                                                                                                        | OGL2812 | RA: 05 39 38.3592 (84.9098300d)<br>Dec: -70 23 19.28 (-70.38869d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.06 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |
|               | (68)                                                                                                                                        | OGL2775 | RA: 05 39 8.0592 (84.7835800d)<br>Dec: -70 20 16.58 (-70.33794d)<br>Equinox: J2000  |                          | V=(?)<br>H= 13.11 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |
|               | (69)                                                                                                                                        | OGL2694 | RA: 05 38 3.6696 (84.5152900d)<br>Dec: -70 31 31.80 (-70.52550d)<br>Equinox: J2000  |                          | V=(?)<br>H= 13.60 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |
|               | (70)                                                                                                                                        | OGL2762 | RA: 05 38 54.6384 (84.7276600d)<br>Dec: -70 18 42.48 (-70.31180d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.80 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |
|               | (71)                                                                                                                                        | OGL2765 | RA: 05 38 56.2512 (84.7343800d)<br>Dec: -70 23 2.04 (-70.38390d)<br>Equinox: J2000  |                          | V=(?)<br>H= 13.15 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |
|               | (72)                                                                                                                                        | OGL2866 | RA: 05 40 26.6688 (85.1111200d)<br>Dec: -70 19 57.79 (-70.33272d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.55 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |
|               | (73)                                                                                                                                        | OGL2805 | RA: 05 39 32.3496 (84.8847900d)<br>Dec: -70 26 28.28 (-70.44119d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.47 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |

Proposal 15146 - LMC Sequence 3 starting with OGL2795 (21) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

| Exposures | #  | Label    | Target       | Config,Mode,Aperture              | Spectral Els. | Opt. Params.                  | Special Reqs.                      | Groups                                                             | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|----------|--------------|-----------------------------------|---------------|-------------------------------|------------------------------------|--------------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  | OGL2812H | (67) OGL2812 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=15;<br>SAMP-SEQ=SPARS25 | POS TARG 2,2;<br>EXP PCS MODE FINE | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 313.122361 Secs (313.122 Secs)<br>[==>] | [1]   |
|           | 2  | OGL2812H | (67) OGL2812 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE FINE                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 3  | OGL2775H | (68) OGL2775 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 4  | OGL2694H | (69) OGL2694 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 5  | OGL2762H | (70) OGL2762 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 6  | OGL2765H | (71) OGL2765 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 7  | OGL2866H | (72) OGL2866 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 8  | OGL2805H | (73) OGL2805 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 9  | OGL2805V | (73) OGL2805 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 10 | OGL2805I | (73) OGL2805 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 11 | OGL2866I | (72) OGL2866 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 12 | OGL2866V | (72) OGL2866 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 13 | OGL2765V | (71) OGL2765 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 14 | OGL2765I | (71) OGL2765 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 3 starting with OGL2795 (21) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |

Proposal 15146 - LMC Sequence 3 starting with OGL2795 (21) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

|    |          |              |                                      |       |          |                       |                                                                               |                              |     |
|----|----------|--------------|--------------------------------------|-------|----------|-----------------------|-------------------------------------------------------------------------------|------------------------------|-----|
| 15 | OGL2762I | (70) OGL2762 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (21) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 16 | OGL2762V | (70) OGL2762 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (21) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 17 | OGL2694V | (69) OGL2694 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (21) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 18 | OGL2694I | (69) OGL2694 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (21) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 19 | OGL2775I | (68) OGL2775 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (21) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 20 | OGL2775V | (68) OGL2775 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (21) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 21 | OGL2812V | (67) OGL2812 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (21) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 22 | OGL2812I | (67) OGL2812 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>3 starting with OGL2<br>795 (21) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |



Proposal 15146 - LMC Sequence Plan to replace 1262 (P=9) with 2176 (P=23 days) 82.55617 -69.43764 (15) - A New Threshold of ...

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Visit       | <p>Proposal 15146, LMC Sequence Plan to replace 1262 (P=9) with 2176 (P=23 days) 82.55617 - 69.43764 (15), withdrawn</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: ON HOLD</p> <p>On Hold Comments: Waiting on outcome of visits 30 - 32.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mon Nov 05 18:02:00 GMT 2018 |
| Diagnostics | <p>(LMC Sequence Plan to replace 1262 (P=9) with 2176 (P=23 days) 82.55617 -69.43764 (15)) Warning (Orbit Planner): POINTING DIFFERENCE EXCEEDS LIMIT</p> <p>(LMC Sequence Plan to replace 1262 (P=9) with 2176 (P=23 days) 82.55617 -69.43764 (15)) Warning (Orbit Planner): POINTING DIFFERENCE EXCEEDS LIMIT</p> <p>(LMC Sequence Plan to replace 1262 (P=9) with 2176 (P=23 days) 82.55617 -69.43764 (15)) Warning (Orbit Planner): POINTING DIFFERENCE EXCEEDS LIMIT</p> <p>(LMC Sequence Plan to replace 1262 (P=9) with 2176 (P=23 days) 82.55617 -69.43764 (15)) Warning (Orbit Planner): POINTING DIFFERENCE EXCEEDS LIMIT</p> <p>(LMC Sequence Plan to replace 1262 (P=9) with 2176 (P=23 days) 82.55617 -69.43764 (15)) Warning (Orbit Planner): POINTING DIFFERENCE EXCEEDS LIMIT</p> |                              |

# Proposal 15146 - LMC Sequence Plan to replace 1262 (P=9) with 2176 (P=23 days) 82.55617 -69.43764 (15) - A New Threshold of ...

| Fixed Targets | #                                                                                                                                           | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes            | Miscellaneous           |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|-------------------|-------------------------|
|               | (40)                                                                                                                                        | OGL1862 | RA: 05 24 13.4496 (81.0560400d)<br>Dec: -69 30 1.58 (-69.50044d)<br>Equinox: J2000  |                          | V=(?)<br>H= 12.64 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (41)                                                                                                                                        | OGL1994 | RA: 05 26 22.5792 (81.5940800d)<br>Dec: -69 36 7.42 (-69.60206d)<br>Equinox: J2000  |                          | V=(?)<br>H= 13.12 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (53)                                                                                                                                        | OGL1539 | RA: 05 18 22.0992 (79.5920800d)<br>Dec: -69 21 47.41 (-69.36317d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.35 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (58)                                                                                                                                        | OGL1442 | RA: 05 16 19.6296 (79.0817900d)<br>Dec: -69 18 20.20 (-69.30561d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.19 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (59)                                                                                                                                        | OGL1404 | RA: 05 15 52.4304 (78.9684600d)<br>Dec: -69 28 16.00 (-69.47111d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.47 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (60)                                                                                                                                        | OGL1313 | RA: 05 14 19.3800 (78.5807500d)<br>Dec: -69 29 24.22 (-69.49006d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.40 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (61)                                                                                                                                        | OGL1353 | RA: 05 15 10.4208 (78.7934200d)<br>Dec: -69 22 58.01 (-69.38278d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.15 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (108)                                                                                                                                       | OGL2176 | RA: 05 30 13.4808 (82.5561700d)<br>Dec: -69 26 15.50 (-69.43764d)<br>Equinox: J2000 |                          | V=13.0            | Reference Frame: ICRS   |
|               | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                                         |         |                                                                                     |                          |                   |                         |

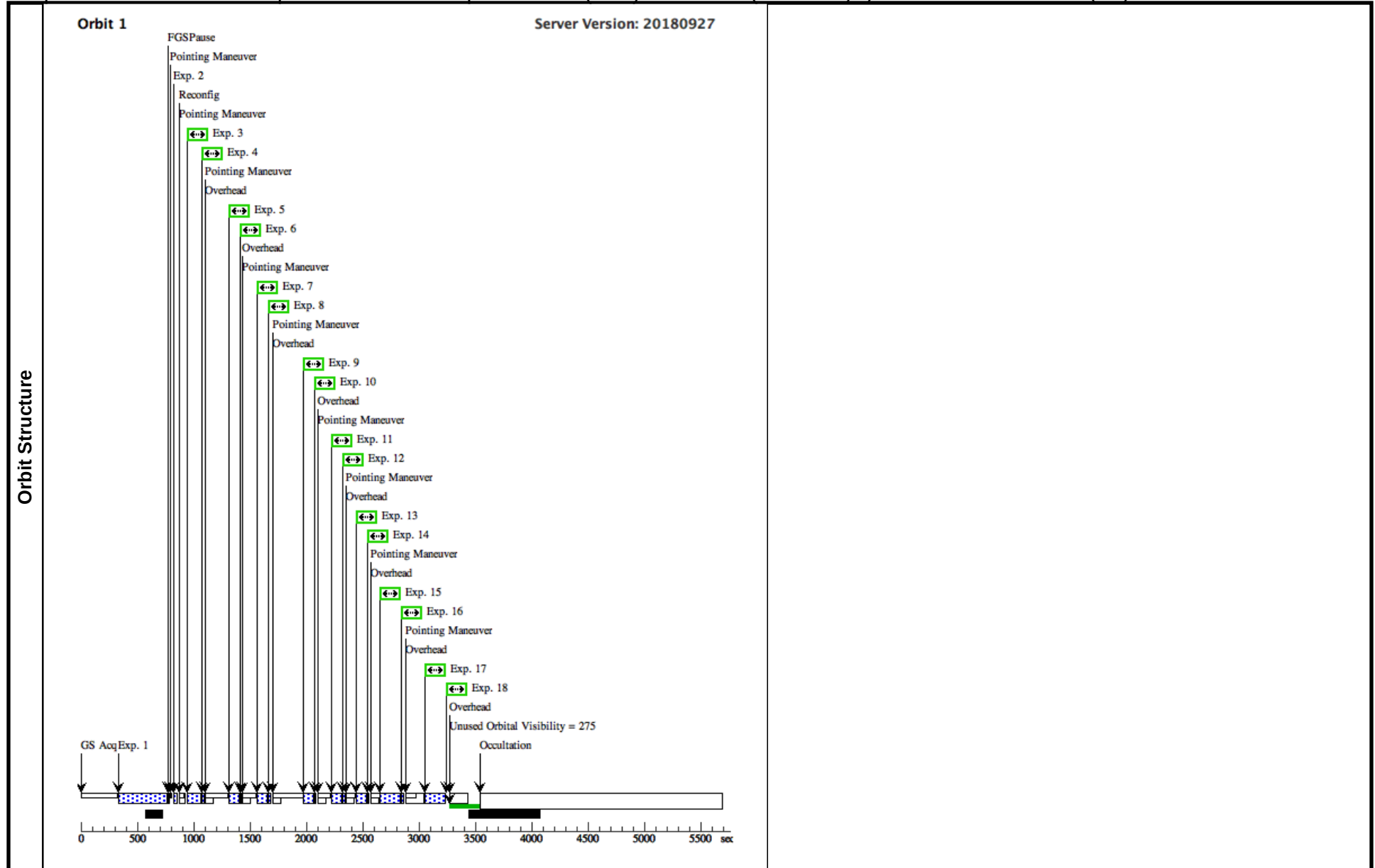
Proposal 15146 - LMC Sequence Plan to replace 1262 (P=9) with 2176 (P=23 days) 82.55617 -69.43764 (15) - A New Threshold of ...

| Exposures | #  | Label    | Target        | Config,Mode,Aperture                 | Spectral Els. | Opt. Params.                      | Special Reqs.                                         | Groups                                                                                                                           | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|----------|---------------|--------------------------------------|---------------|-----------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  | OGL2176H | (108) OGL2176 | WFC3/IR, MULTIACCUM, IR              | F160W         | NSAMP=5;<br>SAMP-SEQ=SPAR<br>S100 | EXP PCS MODE FI<br>NE;<br>GS ACQ SCENARI<br>O BASE1B3 | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 402.933583 Secs (402.934 Secs)<br>[==>] | [1]   |
|           | 2  | OGL2176H | (108) OGL2176 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPI<br>D    | EXP PCS MODE G<br>YRO                                 | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 6.824216 Secs (6.824 Secs)<br>[==>]     | [1]   |
|           | 3  | OGL2176V | (108) OGL2176 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W         | FLASH=12                          | EXP PCS MODE G<br>YRO                                 | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 4  | OGL2176I | (108) OGL2176 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W         | FLASH=12                          | EXP PCS MODE G<br>YRO                                 | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 5  | OGL1994I | (41) OGL1994  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W         | FLASH=12                          | EXP PCS MODE G<br>YRO                                 | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 6  | OGL1994V | (41) OGL1994  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W         | FLASH=12                          | EXP PCS MODE G<br>YRO                                 | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 7  | OGL1862V | (40) OGL1862  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W         | FLASH=12                          | EXP PCS MODE G<br>YRO                                 | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 8  | OGL1862I | (40) OGL1862  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W         | FLASH=12                          | EXP PCS MODE G<br>YRO                                 | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 9  | OGL1539I | (53) OGL1539  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W         | FLASH=12                          | EXP PCS MODE G<br>YRO                                 | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 10 | OGL1539V | (53) OGL1539  | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W         | FLASH=12                          | EXP PCS MODE G<br>YRO                                 | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |

Proposal 15146 - LMC Sequence Plan to replace 1262 (P=9) with 2176 (P=23 days) 82.55617 -69.43764 (15) - A New Threshold of ...

|    |          |              |                                      |       |          |                       |                                                                                                                                  |                              |     |
|----|----------|--------------|--------------------------------------|-------|----------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----|
| 11 | OGL1442V | (58) OGL1442 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 12 | OGL1442I | (58) OGL1442 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 13 | OGL1353I | (61) OGL1353 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 14 | OGL1353V | (61) OGL1353 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 15 | OGL1404V | (59) OGL1404 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 16 | OGL1404I | (59) OGL1404 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 17 | OGL1313I | (60) OGL1313 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 18 | OGL1313V | (60) OGL1313 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in LMC Sequence<br>Plan to replace 1262<br>(P=9) with 2176 (P=<br>23 days) 82.55617 -6<br>9.43764 (15) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |



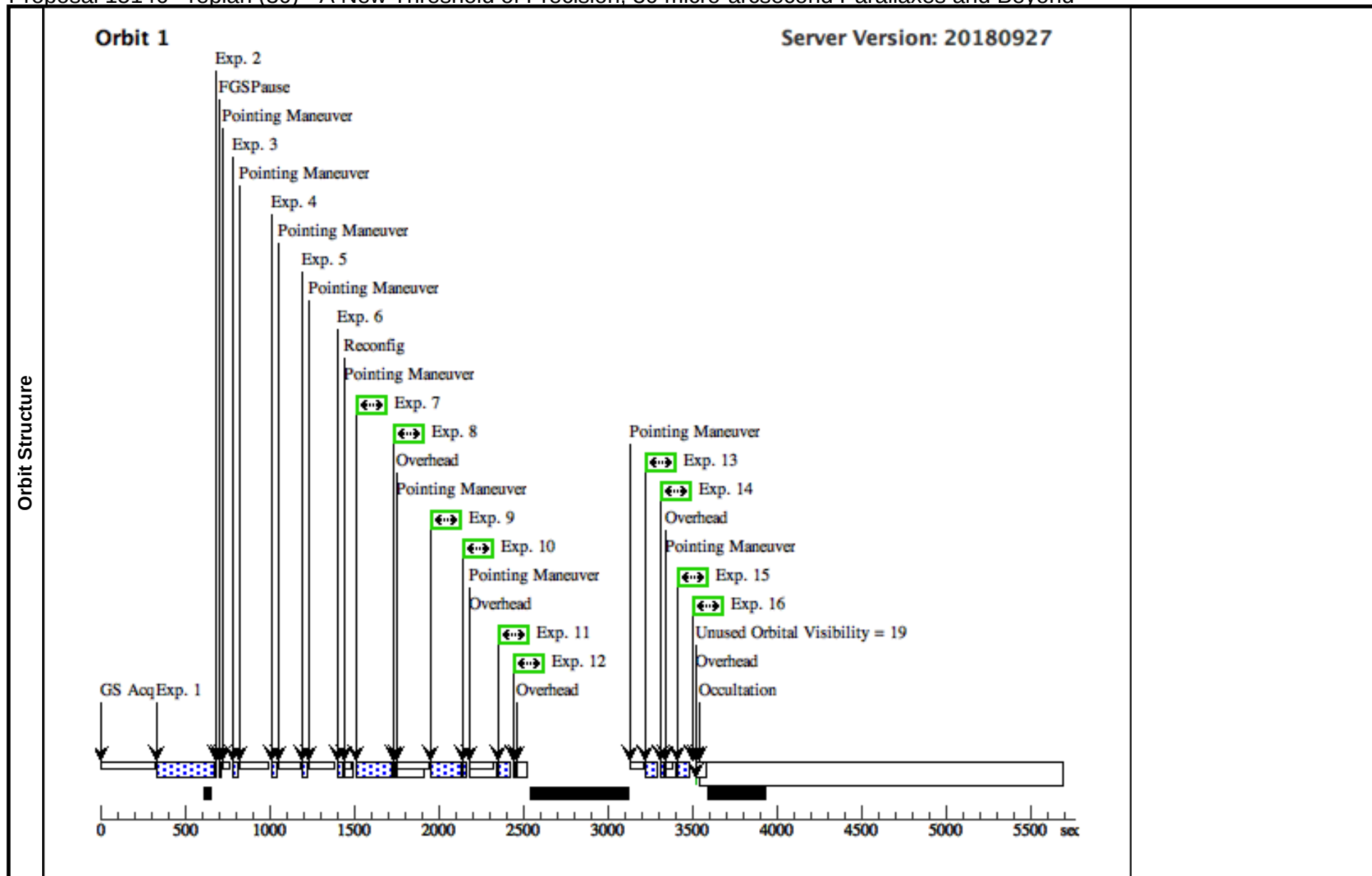


# Proposal 15146 - replan (30) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

|               |                                                                                                                                                                      |        |                                                                                                                                                |                          |        |                              |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------|------------------------------|
| Visit         | <b>Proposal 15146, replan (30), failed</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS<br>Special Requirements: (none) |        |                                                                                                                                                |                          |        | Mon Nov 05 18:02:01 GMT 2018 |
|               |                                                                                                                                                                      |        |                                                                                                                                                |                          |        |                              |
| Fixed Targets | #                                                                                                                                                                    | Name   | Target Coordinates                                                                                                                             | Targ. Coord. Corrections | Fluxes | Miscellaneous                |
|               | (111)                                                                                                                                                                | OGL501 | RA: 04 57 51.0384 (74.4626600d)<br>Dec: -69 57 29.56 (-69.95821d)<br>Equinox: J2000<br><br>Comments:<br>Category=STAR<br>Description=[CEPHEID] |                          | V=13.0 | Reference Frame: ICRS        |
|               | (112)                                                                                                                                                                | OGL512 | RA: 04 58 10.8048 (74.5450200d)<br>Dec: -69 56 58.96 (-69.94971d)<br>Equinox: J2000<br><br>Comments:<br>Category=STAR<br>Description=[CEPHEID] |                          | V=13.0 | Reference Frame: ICRS        |
|               | (113)                                                                                                                                                                | OGL528 | RA: 04 58 32.7792 (74.6365800d)<br>Dec: -70 20 45.71 (-70.34603d)<br>Equinox: J2000<br><br>Comments:<br>Category=STAR<br>Description=[CEPHEID] |                          | V=13.0 | Reference Frame: ICRS        |
|               | (114)                                                                                                                                                                | OGL545 | RA: 04 58 47.1000 (74.6962500d)<br>Dec: -70 03 41.69 (-70.06158d)<br>Equinox: J2000<br><br>Comments:<br>Category=STAR<br>Description=[CEPHEID] |                          | V=13.0 | Reference Frame: ICRS        |
|               | (115)                                                                                                                                                                | OGL683 | RA: 05 01 24.9408 (75.3539200d)<br>Dec: -70 04 18.41 (-70.07178d)<br>Equinox: J2000<br><br>Comments:<br>Category=STAR<br>Description=[CEPHEID] |                          | V=13.0 | Reference Frame: ICRS        |

# Proposal 15146 - replan (30) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

| Exposures | #  | Label   | Target       | Config,Mode,Aperture             | Spectral Els. | Opt. Params.                  | Special Reqs.     | Groups                               | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|---------|--------------|----------------------------------|---------------|-------------------------------|-------------------|--------------------------------------|-----------------------------------------|-------|
|           | 1  | OGL512H | (112) OGL512 | WFC3/IR, MULTIACCUM, IRSUB256    | F160W         | NSAMP=15;<br>SAMP-SEQ=SPARS25 | EXP PCS MODE FINE | Sequence 1-16 Non-Int in replan (30) | 313.122361 Secs (313.122 Secs)<br>[==>] | [1]   |
|           | 2  | OGL512H | (112) OGL512 | WFC3/IR, MULTIACCUM, IRSUB256    | F160W         | NSAMP=3;<br>SAMP-SEQ=RAPID    | EXP PCS MODE FINE | Sequence 1-16 Non-Int in replan (30) | 0.833445 Secs (0.833 Secs)<br>[==>]     | [1]   |
|           | 3  | OGL501H | (111) OGL501 | WFC3/IR, MULTIACCUM, IRSUB512    | F160W         | NSAMP=3;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.559081 Secs (2.559 Secs)<br>[==>]     | [1]   |
|           | 4  | OGL683H | (115) OGL683 | WFC3/IR, MULTIACCUM, IRSUB512    | F160W         | NSAMP=3;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.559081 Secs (2.559 Secs)<br>[==>]     | [1]   |
|           | 5  | OGL545H | (114) OGL545 | WFC3/IR, MULTIACCUM, IRSUB512    | F160W         | NSAMP=3;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.559081 Secs (2.559 Secs)<br>[==>]     | [1]   |
|           | 6  | OGL528H | (113) OGL528 | WFC3/IR, MULTIACCUM, IRSUB512    | F160W         | NSAMP=3;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.559081 Secs (2.559 Secs)<br>[==>]     | [1]   |
|           | 7  | OGL528I | (113) OGL528 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F814W         | FLASH=12                      | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.0 Secs (2 Secs)<br>[==>]              | [1]   |
|           | 8  | OGL528V | (113) OGL528 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F555W         | FLASH=12                      | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.0 Secs (2 Secs)<br>[==>]              | [1]   |
|           | 9  | OGL683V | (115) OGL683 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F555W         | FLASH=12                      | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.0 Secs (2 Secs)<br>[==>]              | [1]   |
|           | 10 | OGL683I | (115) OGL683 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F814W         | FLASH=12                      | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.0 Secs (2 Secs)<br>[==>]              | [1]   |
|           | 11 | OGL545I | (114) OGL545 | WFC3/UVIS, ACCUM, UVIS           | F814W         | FLASH=12;<br>BIN=2            | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.0 Secs (2 Secs)<br>[==>]              | [1]   |
|           | 12 | OGL545V | (114) OGL545 | WFC3/UVIS, ACCUM, UVIS           | F555W         | FLASH=12;<br>BIN=2            | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.0 Secs (2 Secs)<br>[==>]              | [1]   |
|           | 13 | OGL501V | (111) OGL501 | WFC3/UVIS, ACCUM, UVIS           | F555W         | FLASH=12;<br>BIN=2            | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.0 Secs (2 Secs)<br>[==>]              | [1]   |
|           | 14 | OGL501I | (111) OGL501 | WFC3/UVIS, ACCUM, UVIS           | F814W         | FLASH=12;<br>BIN=2            | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.0 Secs (2 Secs)<br>[==>]              | [1]   |
|           | 15 | OGL512I | (112) OGL512 | WFC3/UVIS, ACCUM, UVIS           | F814W         | FLASH=12;<br>BIN=2            | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.0 Secs (2 Secs)<br>[==>]              | [1]   |
|           | 16 | OGL512V | (112) OGL512 | WFC3/UVIS, ACCUM, UVIS           | F555W         | FLASH=12;<br>BIN=2            | EXP PCS MODE GYRO | Sequence 1-16 Non-Int in replan (30) | 2.0 Secs (2 Secs)<br>[==>]              | [1]   |

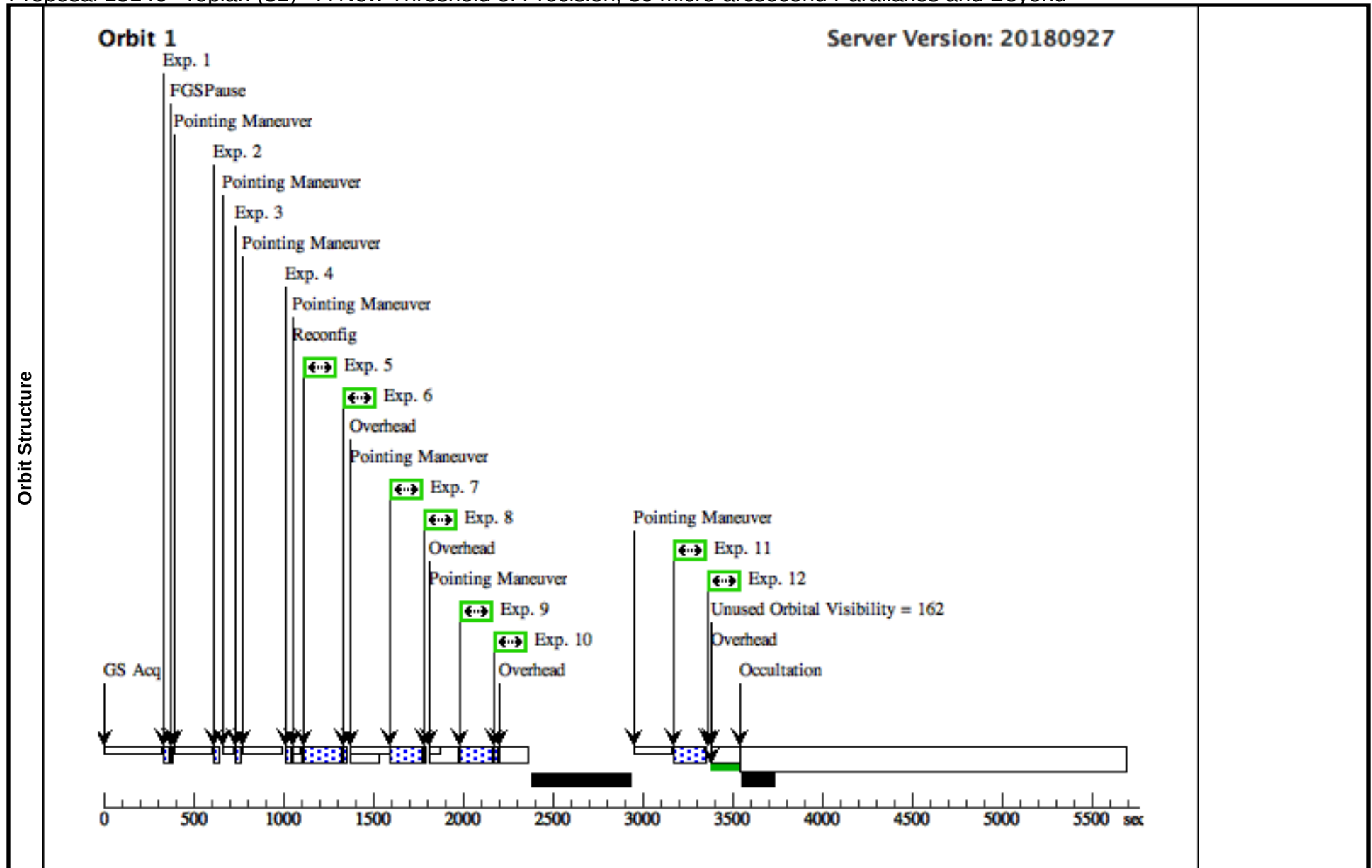


# Proposal 15146 - replan (31) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

|               |                                                                                                                                                                      |         |                                                                                     |                          |        |                              |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|--------|------------------------------|
| Visit         | <b>Proposal 15146, replan (31), failed</b><br><b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS<br>Special Requirements: (none) |         |                                                                                     |                          |        | Mon Nov 05 18:02:01 GMT 2018 |
|               |                                                                                                                                                                      |         |                                                                                     |                          |        |                              |
| Fixed Targets | #                                                                                                                                                                    | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes | Miscellaneous                |
|               | (117)                                                                                                                                                                | OGL787  | RA: 05 03 9.0600 (75.7877500d)<br>Dec: -69 13 23.99 (-69.22333d)<br>Equinox: J2000  |                          | V=13.0 | Reference Frame: ICRS        |
|               | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                                                                  |         |                                                                                     |                          |        |                              |
|               | (118)                                                                                                                                                                | OGL801  | RA: 05 03 26.4888 (75.8603700d)<br>Dec: -69 08 56.18 (-69.14894d)<br>Equinox: J2000 |                          | V=13.0 | Reference Frame: ICRS        |
|               | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                                                                  |         |                                                                                     |                          |        |                              |
|               | (119)                                                                                                                                                                | OGL986  | RA: 05 07 7.8096 (76.7825400d)<br>Dec: -68 53 19.50 (-68.88875d)<br>Equinox: J2000  |                          | V=13.0 | Reference Frame: ICRS        |
|               | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                                                                  |         |                                                                                     |                          |        |                              |
|               | (121)                                                                                                                                                                | OGL1031 | RA: 05 07 42.1296 (76.9255400d)<br>Dec: -69 14 48.08 (-69.24669d)<br>Equinox: J2000 |                          | V=13.0 | Reference Frame: ICRS        |
|               | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                                                                  |         |                                                                                     |                          |        |                              |

# Proposal 15146 - replan (31) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

| Exposures | #  | Label    | Target        | Config,Mode,Aperture             | Spectral Els. | Opt. Params.               | Special Reqs.         | Groups                                   | Exp. Time (Total)/[Actual Dur.]     | Orbit |
|-----------|----|----------|---------------|----------------------------------|---------------|----------------------------|-----------------------|------------------------------------------|-------------------------------------|-------|
|           | 1  | OGL1031H | (121) OGL1031 | WFC3/IR, MULTIACCUM, IRSUB256    | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE FI<br>NE | Sequence 1-12 Non-I<br>nt in replan (31) | 2.22252 Secs (2.223 Secs)<br>[==>]  | [1]   |
|           | 2  | OGL787H  | (117) OGL787  | WFC3/IR, MULTIACCUM, IRSUB512    | F160W         | NSAMP=3;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replan (31) | 2.559081 Secs (2.559 Secs)<br>[==>] | [1]   |
|           | 3  | OGL801H  | (118) OGL801  | WFC3/IR, MULTIACCUM, IRSUB512    | F160W         | NSAMP=3;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replan (31) | 2.559081 Secs (2.559 Secs)<br>[==>] | [1]   |
|           | 4  | OGL986H  | (119) OGL986  | WFC3/IR, MULTIACCUM, IRSUB512    | F160W         | NSAMP=3;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replan (31) | 2.559081 Secs (2.559 Secs)<br>[==>] | [1]   |
|           | 5  | OGL986V  | (119) OGL986  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replan (31) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 6  | OGL986I  | (119) OGL986  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replan (31) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 7  | OGL801I  | (118) OGL801  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replan (31) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 8  | OGL801V  | (118) OGL801  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replan (31) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 9  | OGL787V  | (117) OGL787  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replan (31) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 10 | OGL787I  | (117) OGL787  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replan (31) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 11 | OGL1031I | (121) OGL1031 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replan (31) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 12 | OGL1031V | (121) OGL1031 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replan (31) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |



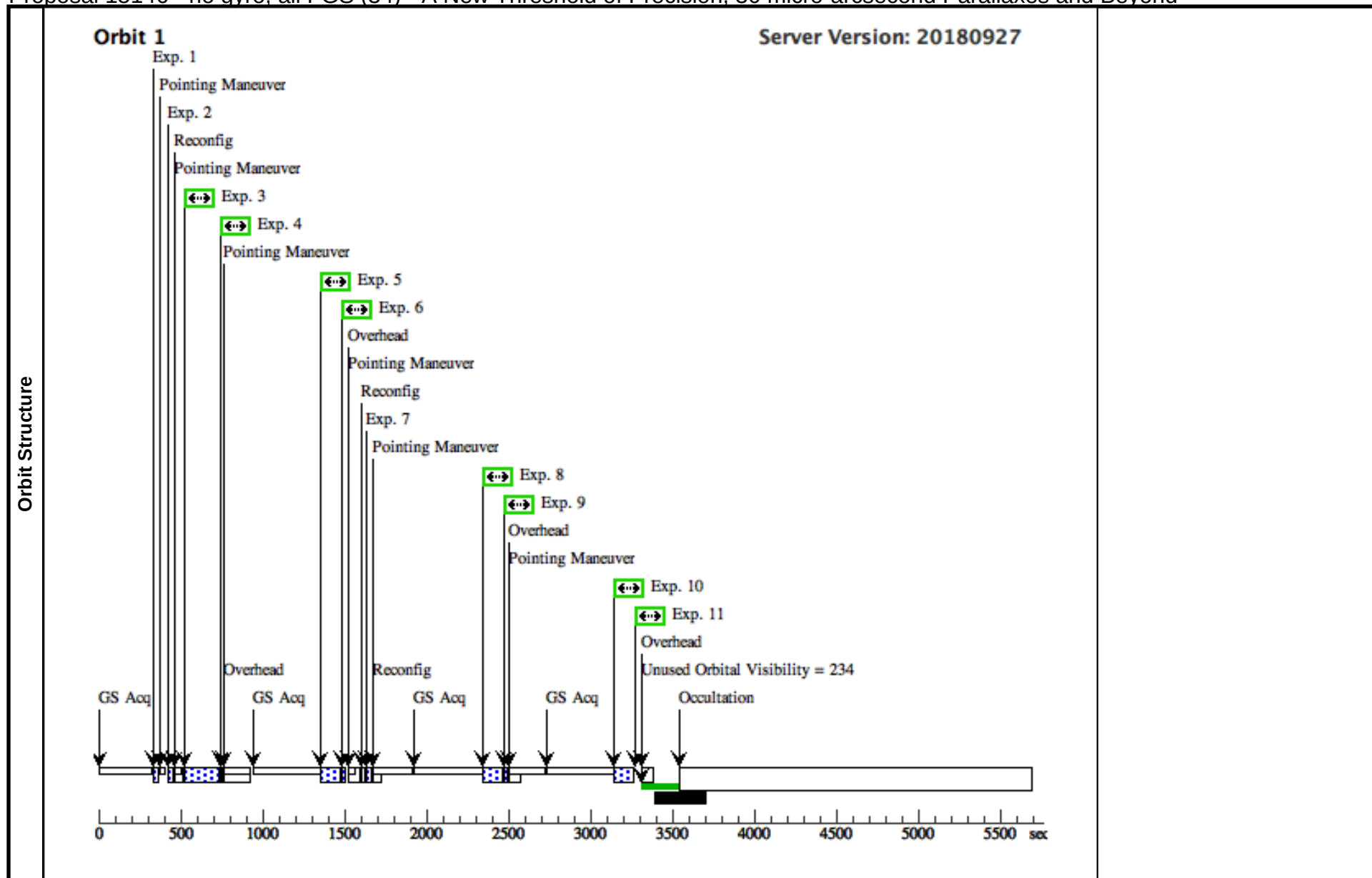
# Proposal 15146 - no gyro, all FGS (34) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

|               |                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                     |                          |                   |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|-------------------|
| Visit         | <b>Proposal 15146, no gyro, all FGS (34), scheduling</b> <span>Mon Nov 05 18:02:01 GMT 2018</span>                                                                                                                                                                                                                                                   |         |                                                                                     |                          |                   |
|               | <b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS<br>Special Requirements: (none)                                                                                                                                                                                                                                      |         |                                                                                     |                          |                   |
| Diagnostics   | (no gyro, all FGS (34)) Warning (Orbit Planner): POINTING DIFFERENCE EXCEEDS LIMIT<br>(no gyro, all FGS (34)) Warning (Orbit Planner): POINTING DIFFERENCE EXCEEDS LIMIT<br>(no gyro, all FGS (34)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE<br>(no gyro, all FGS (34)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE NO ORIENT |         |                                                                                     |                          |                   |
|               |                                                                                                                                                                                                                                                                                                                                                      |         |                                                                                     |                          |                   |
| Fixed Targets | #                                                                                                                                                                                                                                                                                                                                                    | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes            |
|               | (41)                                                                                                                                                                                                                                                                                                                                                 | OGL1994 | RA: 05 26 22.5792 (81.5940800d)<br>Dec: -69 36 7.42 (-69.60206d)<br>Equinox: J2000  |                          | V=(?)<br>H= 13.12 |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                                                                                                                                                                                          |         |                                                                                     |                          |                   |
|               | (53)                                                                                                                                                                                                                                                                                                                                                 | OGL1539 | RA: 05 18 22.0992 (79.5920800d)<br>Dec: -69 21 47.41 (-69.36317d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.35 |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                                                                                                                                                                                          |         |                                                                                     |                          |                   |
| Fixed Targets | (119)                                                                                                                                                                                                                                                                                                                                                | OGL986  | RA: 05 07 7.8096 (76.7825400d)<br>Dec: -68 53 19.50 (-68.88875d)<br>Equinox: J2000  |                          | V=13.0            |
|               | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                                                                                                                                                                                                                                                  |         |                                                                                     |                          |                   |
|               | (122)                                                                                                                                                                                                                                                                                                                                                | OGL1080 | RA: 05 08 43.9896 (77.1832900d)<br>Dec: -68 45 28.01 (-68.75778d)<br>Equinox: J2000 |                          | V=13.0            |
| Fixed Targets | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                                                                                                                                                                                                                                                  |         |                                                                                     |                          |                   |
|               | Reference Frame: ICRS                                                                                                                                                                                                                                                                                                                                |         |                                                                                     |                          |                   |



# Proposal 15146 - no gyro, all FGS (34) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

| Exposures | #  | Label    | Target        | Config,Mode,Aperture              | Spectral Els. | Opt. Params.               | Special Reqs.                         | Groups                                         | Exp. Time (Total)/[Actual Dur.]    | Orbit |
|-----------|----|----------|---------------|-----------------------------------|---------------|----------------------------|---------------------------------------|------------------------------------------------|------------------------------------|-------|
|           | 1  | OGL986H  | (119) OGL986  | WFC3/IR, MULTIACCUM, IRSUB128     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE FINE                     | Sequence 1-11 Non-Int in no gyro, all FGS (34) | 0.90164 Secs (0.902 Secs)<br>[==>] | [1]   |
|           | 2  | OGL986H  | (119) OGL986  | WFC3/IR, MULTIACCUM, IRSUB128     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | POS TARG -19,44;<br>EXP PCS MODE FINE | Sequence 1-11 Non-Int in no gyro, all FGS (34) | 0.90164 Secs (0.902 Secs)<br>[==>] | [1]   |
|           | 3  | OGL986I  | (119) OGL986  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB  | F814W         | FLASH=12                   | POS TARG -5,25;<br>EXP PCS MODE FINE  | Sequence 1-11 Non-Int in no gyro, all FGS (34) | 1.0 Secs (1 Secs)<br>[==>]         | [1]   |
|           | 4  | OGL986V  | (119) OGL986  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB  | F555W         | FLASH=12                   | POS TARG -5,25;<br>EXP PCS MODE FINE  | Sequence 1-11 Non-Int in no gyro, all FGS (34) | 1.0 Secs (1 Secs)<br>[==>]         | [1]   |
|           | 5  | OGL1080V | (122) OGL1080 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                   | EXP PCS MODE FINE                     | Sequence 1-11 Non-Int in no gyro, all FGS (34) | 2.0 Secs (2 Secs)<br>[==>]         | [1]   |
|           | 6  | OGL1080I | (122) OGL1080 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE FINE                     | Sequence 1-11 Non-Int in no gyro, all FGS (34) | 2.0 Secs (2 Secs)<br>[==>]         | [1]   |
|           | 7  | OGL1080H | (122) OGL1080 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE FINE                     | Sequence 1-11 Non-Int in no gyro, all FGS (34) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 8  | OGL1539V | (53) OGL1539  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                   | EXP PCS MODE FINE                     | Sequence 1-11 Non-Int in no gyro, all FGS (34) | 2.0 Secs (2 Secs)<br>[==>]         | [1]   |
|           | 9  | OGL1539  | (53) OGL1539  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE FINE                     | Sequence 1-11 Non-Int in no gyro, all FGS (34) | 2.0 Secs (2 Secs)<br>[==>]         | [1]   |
|           | 10 | OGL1994V | (41) OGL1994  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                   | EXP PCS MODE FINE                     | Sequence 1-11 Non-Int in no gyro, all FGS (34) | 2.0 Secs (2 Secs)<br>[==>]         | [1]   |
|           | 11 | OGL1994I | (41) OGL1994  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE FINE                     | Sequence 1-11 Non-Int in no gyro, all FGS (34) | 2.0 Secs (2 Secs)<br>[==>]         | [1]   |

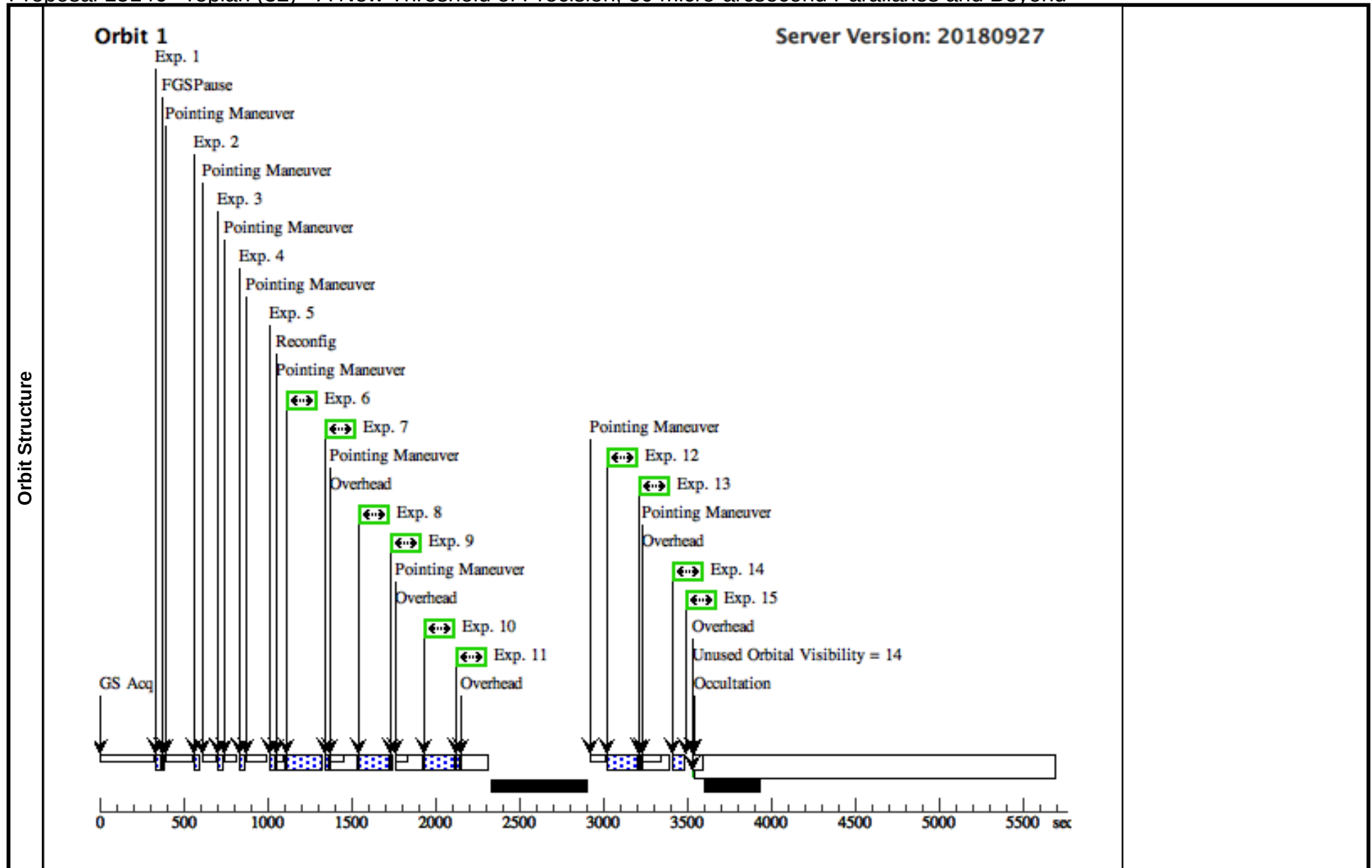


# Proposal 15146 - replan (32) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

|                                                     |                                                                                                                                             |         |                                                                                     |                          |                   |                              |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|-------------------|------------------------------|
| Visit                                               | Proposal 15146, replan (32), completed                                                                                                      |         |                                                                                     |                          |                   | Mon Nov 05 18:02:01 GMT 2018 |
|                                                     | Diagnostic Status: No Diagnostics                                                                                                           |         |                                                                                     |                          |                   |                              |
|                                                     | Scientific Instruments: WFC3/IR, WFC3/UVIS                                                                                                  |         |                                                                                     |                          |                   |                              |
|                                                     | Special Requirements: (none)                                                                                                                |         |                                                                                     |                          |                   |                              |
| Fixed Targets                                       | #                                                                                                                                           | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes            | Miscellaneous                |
|                                                     | (101)                                                                                                                                       | OGL0510 | RA: 04 58 5.5704 (74.5232100d)<br>Dec: -69 27 15.59 (-69.45433d)<br>Equinox: J2000  |                          | V=(?)<br>H= 11.16 | Reference Frame: SIMBAD      |
|                                                     | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |
|                                                     | (102)                                                                                                                                       | OGL0594 | RA: 04 59 45.0768 (74.9378200d)<br>Dec: -69 29 35.52 (-69.49320d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.39 | Reference Frame: SIMBAD      |
|                                                     | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |
|                                                     | (103)                                                                                                                                       | OGL0648 | RA: 05 00 48.3600 (75.2015000d)<br>Dec: -69 31 54.70 (-69.53186d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.57 | Reference Frame: SIMBAD      |
|                                                     | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |
|                                                     | (109)                                                                                                                                       | OGL590  | RA: 04 59 41.1408 (74.9214200d)<br>Dec: -69 27 22.00 (-69.45611d)<br>Equinox: J2000 |                          | V=13.0            | Reference Frame: ICRS        |
|                                                     | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                                         |         |                                                                                     |                          |                   |                              |
|                                                     | (110)                                                                                                                                       | OGL434  | RA: 04 56 27.4992 (74.1145800d)<br>Dec: -69 22 46.60 (-69.37961d)<br>Equinox: J2000 |                          | V=13.0            | Reference Frame: ICRS        |
| Comments:<br>Category=STAR<br>Description=[CEPHEID] |                                                                                                                                             |         |                                                                                     |                          |                   |                              |
|                                                     | (116)                                                                                                                                       | OGL727  | RA: 05 02 10.2408 (75.5426700d)<br>Dec: -69 32 23.78 (-69.53994d)<br>Equinox: J2000 |                          | V=13.0            | Reference Frame: ICRS        |
| Comments:<br>Category=STAR<br>Description=[CEPHEID] |                                                                                                                                             |         |                                                                                     |                          |                   |                              |

# Proposal 15146 - replan (32) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

| Exposures | #  | Label   | Target        | Config,Mode,Aperture             | Spectral Els. | Opt. Params.               | Special Reqs.         | Groups                                   | Exp. Time (Total)/[Actual Dur.]     | Orbit |
|-----------|----|---------|---------------|----------------------------------|---------------|----------------------------|-----------------------|------------------------------------------|-------------------------------------|-------|
|           | 1  | OGL434H | (110) OGL434  | WFC3/IR, MULTIACCUM, IRSUB256    | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE FI<br>NE | Sequence 1-15 Non-I<br>nt in replan (32) | 2.22252 Secs (2.223 Secs)<br>[==>]  | [1]   |
|           | 2  | OGL590H | (109) OGL590  | WFC3/IR, MULTIACCUM, IRSUB512    | F160W         | NSAMP=3;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.559081 Secs (2.559 Secs)<br>[==>] | [1]   |
|           | 3  | OGL648H | (103) OGL0648 | WFC3/IR, MULTIACCUM, IRSUB512    | F160W         | NSAMP=3;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.559081 Secs (2.559 Secs)<br>[==>] | [1]   |
|           | 4  | OGL594H | (102) OGL0594 | WFC3/IR, MULTIACCUM, IRSUB512    | F160W         | NSAMP=3;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.559081 Secs (2.559 Secs)<br>[==>] | [1]   |
|           | 5  | OGL727H | (116) OGL727  | WFC3/IR, MULTIACCUM, IRSUB512    | F160W         | NSAMP=3;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.559081 Secs (2.559 Secs)<br>[==>] | [1]   |
|           | 6  | OGL727V | (116) OGL727  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 7  | OGL727I | (116) OGL727  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 8  | OGL648I | (103) OGL0648 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 9  | OGL648V | (103) OGL0648 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 10 | OGL594V | (102) OGL0594 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 11 | OGL594I | (102) OGL0594 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 12 | OGL510I | (101) OGL0510 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 13 | OGL510V | (101) OGL0510 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 14 | OGL434V | (110) OGL434  | WFC3/UVIS, ACCUM, UVIS           | F555W         | FLASH=12;<br>BIN=2         | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |
|           | 15 | OGL434I | (110) OGL434  | WFC3/UVIS, ACCUM, UVIS           | F814W         | FLASH=12;<br>BIN=2         | EXP PCS MODE G<br>YRO | Sequence 1-15 Non-I<br>nt in replan (32) | 2.0 Secs (2 Secs)<br>[==>]          | [1]   |



# Proposal 15146 - LMC Sequence 5 starting with OGL1411 (16) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

|               |                                                                                                                                                                                         |         |                                                                                     |                          |                   |                              |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|-------------------|------------------------------|
| Visit         | Proposal 15146, LMC Sequence 5 starting with OGL1411 (16), completed<br>Diagnostic Status: No Diagnostics<br>Scientific Instruments: WFC3/IR, WFC3/UVIS<br>Special Requirements: (none) |         |                                                                                     |                          |                   | Mon Nov 05 18:02:01 GMT 2018 |
|               |                                                                                                                                                                                         |         |                                                                                     |                          |                   |                              |
| Fixed Targets | #                                                                                                                                                                                       | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes            | Miscellaneous                |
|               | (83)                                                                                                                                                                                    | OGL1411 | RA: 05 15 58.0392 (78.9918300d)<br>Dec: -69 42 43.49 (-69.71208d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.27 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                             |         |                                                                                     |                          |                   |                              |
|               | (84)                                                                                                                                                                                    | OGL1431 | RA: 05 16 9.8592 (79.0410800d)<br>Dec: -69 32 39.52 (-69.54431d)<br>Equinox: J2000  |                          | V=(?)<br>H= 12.85 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                             |         |                                                                                     |                          |                   |                              |
|               | (85)                                                                                                                                                                                    | OGL1490 | RA: 05 17 24.7392 (79.3530800d)<br>Dec: -69 20 57.59 (-69.34933d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.02 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                             |         |                                                                                     |                          |                   |                              |
|               | (86)                                                                                                                                                                                    | OGL1526 | RA: 05 18 3.7800 (79.5157500d)<br>Dec: -69 25 36.01 (-69.42667d)<br>Equinox: J2000  |                          | V=(?)<br>H= 13.36 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                             |         |                                                                                     |                          |                   |                              |
|               | (87)                                                                                                                                                                                    | OGL1587 | RA: 05 19 27.7800 (79.8657500d)<br>Dec: -69 30 30.20 (-69.50839d)<br>Equinox: J2000 |                          | V=(?)<br>H= 11.78 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                             |         |                                                                                     |                          |                   |                              |
|               | (88)                                                                                                                                                                                    | OGL1578 | RA: 05 19 14.8008 (79.8116700d)<br>Dec: -69 36 18.11 (-69.60503d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.47 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                             |         |                                                                                     |                          |                   |                              |
|               | (89)                                                                                                                                                                                    | OGL1647 | RA: 05 20 37.3992 (80.1558300d)<br>Dec: -69 30 56.52 (-69.51570d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.06 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                             |         |                                                                                     |                          |                   |                              |

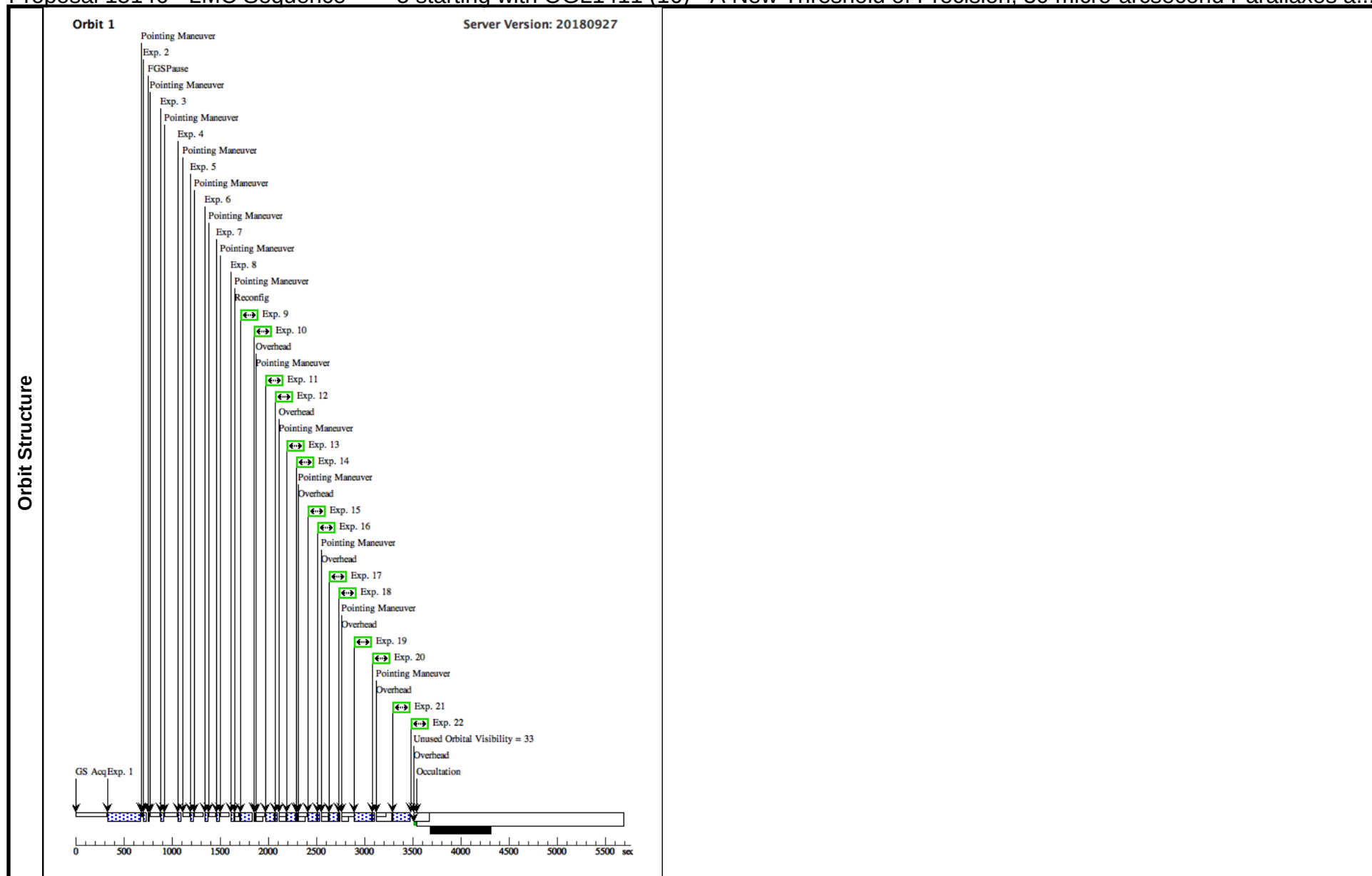
Proposal 15146 - LMC Sequence 5 starting with OGL1411 (16) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

| Exposures | #  | Label    | Target       | Config,Mode,Aperture              | Spectral Els. | Opt. Params.                  | Special Reqs.                      | Groups                                                             | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|----------|--------------|-----------------------------------|---------------|-------------------------------|------------------------------------|--------------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  | OGL1411H | (83) OGL1411 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=15;<br>SAMP-SEQ=SPARS25 | POS TARG 2,2;<br>EXP PCS MODE FINE | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 313.122361 Secs (313.122 Secs)<br>[==>] | [1]   |
|           | 2  | OGL1411H | (83) OGL1411 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE FINE                  | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 3  | OGL1431H | (84) OGL1431 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 4  | OGL1490H | (85) OGL1490 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 5  | OGL1526H | (86) OGL1526 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 6  | OGL1587H | (87) OGL1587 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 7  | OGL1578H | (88) OGL1578 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 8  | OGL1647H | (89) OGL1647 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 9  | OGL1647I | (89) OGL1647 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 10 | OGL1647V | (89) OGL1647 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 11 | OGL1578V | (88) OGL1578 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 12 | OGL1578I | (88) OGL1578 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 13 | OGL1587I | (87) OGL1587 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 14 | OGL1587V | (87) OGL1587 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 5 starting with OGL1411 (16) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |

Proposal 15146 - LMC Sequence 5 starting with OGL1411 (16) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

|    |          |              |                                      |       |          |                       |                                                                               |                              |     |
|----|----------|--------------|--------------------------------------|-------|----------|-----------------------|-------------------------------------------------------------------------------|------------------------------|-----|
| 15 | OGL1526V | (86) OGL1526 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>5 starting with OGL1<br>411 (16) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 16 | OGL1526I | (86) OGL1526 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>5 starting with OGL1<br>411 (16) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 17 | OGL1490I | (85) OGL1490 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>5 starting with OGL1<br>411 (16) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 18 | OGL1490V | (85) OGL1490 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>5 starting with OGL1<br>411 (16) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 19 | OGL1431V | (84) OGL1431 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>5 starting with OGL1<br>411 (16) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 20 | OGL1431I | (84) OGL1431 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>5 starting with OGL1<br>411 (16) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 21 | OGL1411I | (83) OGL1411 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>5 starting with OGL1<br>411 (16) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 22 | OGL1411V | (83) OGL1411 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>5 starting with OGL1<br>411 (16) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |





# Proposal 15146 - LMC Sequence 6 starting with OGL1112 (17) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

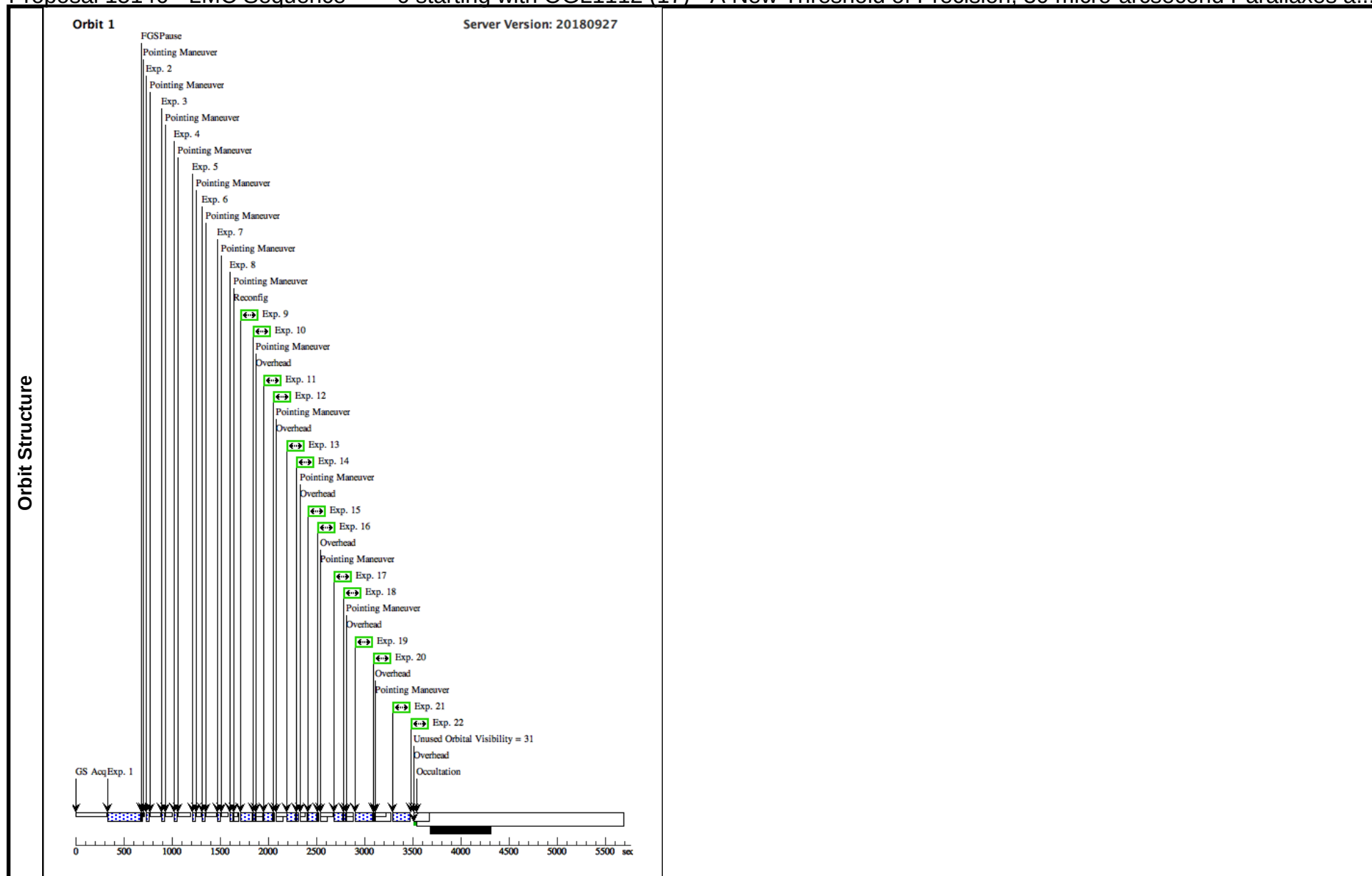
|               |                                                                                                                                                                                      |         |                                                                                     |                          |                   |                              |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|-------------------|------------------------------|
| Visit         | Proposal 15146, LMC Sequence 6 starting with OGL1112 (17), failed<br>Diagnostic Status: No Diagnostics<br>Scientific Instruments: WFC3/IR, WFC3/UVIS<br>Special Requirements: (none) |         |                                                                                     |                          |                   | Mon Nov 05 18:02:01 GMT 2018 |
|               |                                                                                                                                                                                      |         |                                                                                     |                          |                   |                              |
| Fixed Targets | #                                                                                                                                                                                    | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes            | Miscellaneous                |
|               | (92)                                                                                                                                                                                 | OGL1112 | RA: 05 09 18.3432 (77.3264300d)<br>Dec: -68 17 58.38 (-68.29955d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.08 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |
|               | (93)                                                                                                                                                                                 | OGL1001 | RA: 05 07 21.7008 (76.8404200d)<br>Dec: -68 20 18.38 (-68.33844d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.35 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |
|               | (94)                                                                                                                                                                                 | OGL0963 | RA: 05 06 39.8880 (76.6662000d)<br>Dec: -68 25 12.68 (-68.42019d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.97 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |
|               | (95)                                                                                                                                                                                 | OGL0871 | RA: 05 04 47.6424 (76.1985100d)<br>Dec: -68 35 22.74 (-68.58965d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.17 | Reference Frame: SIMBAD      |
| Fixed Targets | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |
|               | (96)                                                                                                                                                                                 | OGL0846 | RA: 05 04 18.1200 (76.0755000d)<br>Dec: -68 33 59.80 (-68.56661d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.99 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |
|               | (97)                                                                                                                                                                                 | OGL0776 | RA: 05 02 57.2400 (75.7385000d)<br>Dec: -68 41 43.19 (-68.69533d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.24 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |
|               | (98)                                                                                                                                                                                 | OGL0833 | RA: 05 04 0.0792 (76.0003300d)<br>Dec: -68 38 54.71 (-68.64853d)<br>Equinox: J2000  |                          | V=(?)<br>H= 13.39 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID]                                          |         |                                                                                     |                          |                   |                              |
|               |                                                                                                                                                                                      |         |                                                                                     |                          |                   |                              |

Proposal 15146 - LMC Sequence 6 starting with OGL1112 (17) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

| Exposures | #  | Label    | Target       | Config,Mode,Aperture              | Spectral Els. | Opt. Params.                  | Special Reqs.                      | Groups                                                             | Exp. Time (Total)/[Actual Dur.]         | Orbit |
|-----------|----|----------|--------------|-----------------------------------|---------------|-------------------------------|------------------------------------|--------------------------------------------------------------------|-----------------------------------------|-------|
|           | 1  | OGL1112H | (92) OGL1112 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=15;<br>SAMP-SEQ=SPARS25 | POS TARG 2,2;<br>EXP PCS MODE FINE | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 313.122361 Secs (313.122 Secs)<br>[==>] | [1]   |
|           | 2  | OGL1112H | (92) OGL1112 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 3  | OGL1001H | (93) OGL1001 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 4  | OGL0963H | (94) OGL0963 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 5  | OGL0871H | (95) OGL0871 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 6  | OGL0846H | (96) OGL0846 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 7  | OGL0776H | (97) OGL0776 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 8  | OGL0833H | (98) OGL0833 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID    | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 2.22252 Secs (2.223 Secs)<br>[==>]      | [1]   |
|           | 9  | OGL0833V | (98) OGL0833 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 10 | OGL0833I | (98) OGL0833 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 11 | OGL0776I | (97) OGL0776 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 12 | OGL0776V | (97) OGL0776 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 13 | OGL0846V | (96) OGL0846 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |
|           | 14 | OGL0846I | (96) OGL0846 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                      | EXP PCS MODE GYRO                  | Sequence 1-22 Non-Int in LMC Sequence 6 starting with OGL1112 (17) | 2.5 Secs (2.5 Secs)<br>[==>]            | [1]   |

Proposal 15146 - LMC Sequence 6 starting with OGL1112 (17) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

|    |          |              |                                      |       |          |                       |                                                                               |                              |     |
|----|----------|--------------|--------------------------------------|-------|----------|-----------------------|-------------------------------------------------------------------------------|------------------------------|-----|
| 15 | OGL0871I | (95) OGL0871 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>6 starting with OGL1<br>112 (17) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 16 | OGL0871V | (95) OGL0871 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>6 starting with OGL1<br>112 (17) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 17 | OGL0963V | (94) OGL0963 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>6 starting with OGL1<br>112 (17) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 18 | OGL0963I | (94) OGL0963 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>6 starting with OGL1<br>112 (17) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 19 | OGL1001I | (93) OGL1001 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>6 starting with OGL1<br>112 (17) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 20 | OGL1001V | (93) OGL1001 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>6 starting with OGL1<br>112 (17) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 21 | OGL1112V | (92) OGL1112 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>6 starting with OGL1<br>112 (17) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 22 | OGL1112I | (92) OGL1112 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-22 Non-I<br>nt in LMC Sequence<br>6 starting with OGL1<br>112 (17) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |



|       |                                                                   |                              |
|-------|-------------------------------------------------------------------|------------------------------|
| Visit | Proposal 15146, LMC Sequence 7 starting with OGL0434 (18), failed | Mon Nov 05 18:02:01 GMT 2018 |
|       | Diagnostic Status: No Diagnostics                                 |                              |
|       | Scientific Instruments: WFC3/IR, WFC3/UVIS                        |                              |
|       | Special Requirements: SCHED 30%                                   |                              |



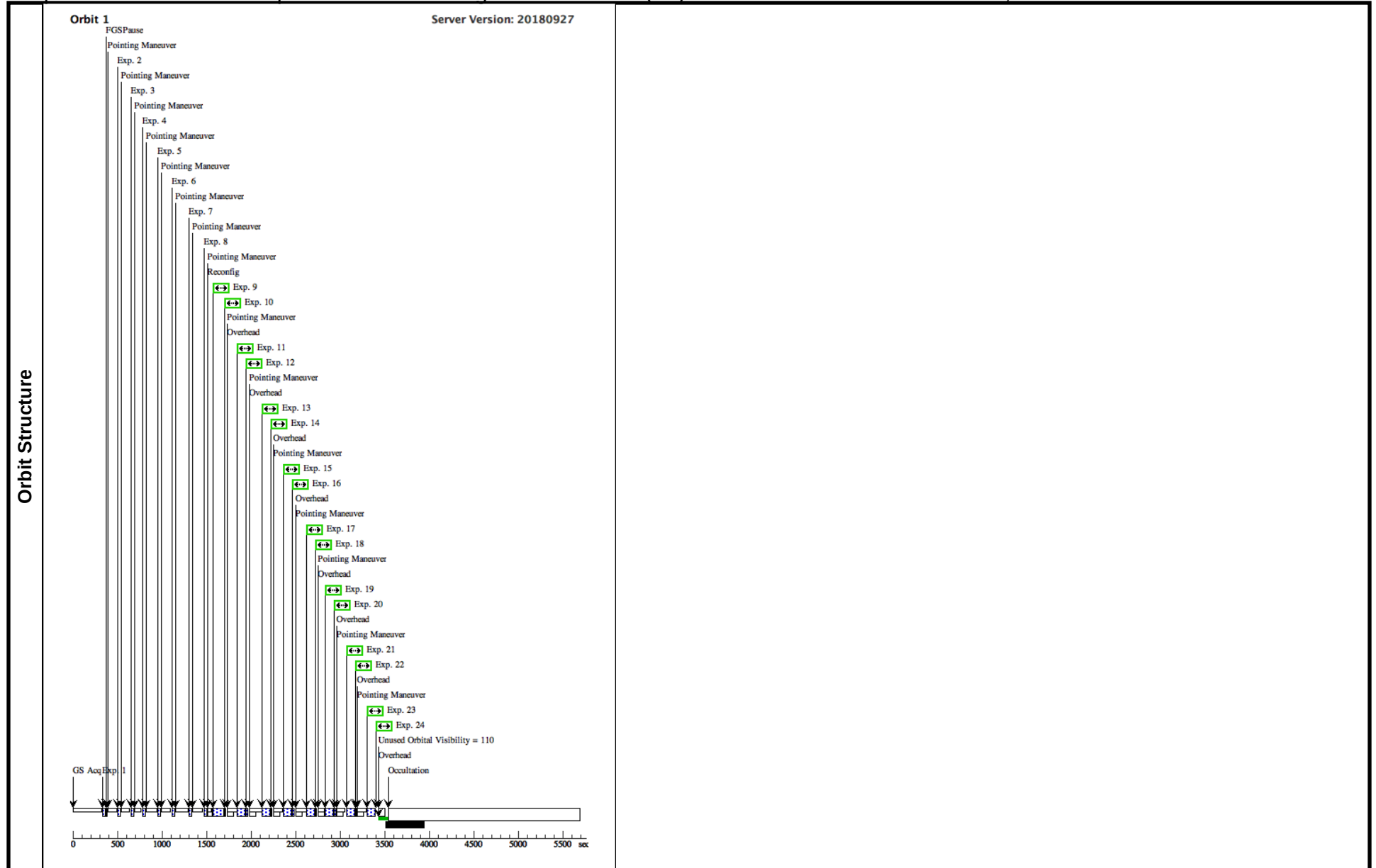
Proposal 15146 - LMC Sequence 7 starting with OGL0434 (18) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

| Exposures | #  | Label    | Target        | Config,Mode,Aperture              | Spectral Els. | Opt. Params.               | Special Reqs.         | Groups                                                                        | Exp. Time (Total)/[Actual Dur.]    | Orbit |
|-----------|----|----------|---------------|-----------------------------------|---------------|----------------------------|-----------------------|-------------------------------------------------------------------------------|------------------------------------|-------|
|           | 1  | OGL0434H | (100) OGL0434 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE FI<br>NE | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 2  | OGL0510H | (101) OGL0510 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 3  | OGL0594H | (102) OGL0594 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 4  | OGL0648H | (103) OGL0648 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 5  | OGL0757H | (104) OGL0757 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 6  | OGL0741H | (105) OGL0741 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 7  | OGL0884H | (106) OGL0884 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 8  | OGL0787H | (107) OGL0787 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 9  | OGL0787I | (107) OGL0787 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 10 | OGL0787V | (107) OGL0787 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 11 | OGL0884V | (106) OGL0884 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 12 | OGL0884I | (106) OGL0884 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 13 | OGL0741I | (105) OGL0741 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 14 | OGL0741V | (105) OGL0741 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |



Proposal 15146 - LMC Sequence 7 starting with OGL0434 (18) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes a...

|    |          |               |                                      |       |          |                       |                                                                               |                              |     |
|----|----------|---------------|--------------------------------------|-------|----------|-----------------------|-------------------------------------------------------------------------------|------------------------------|-----|
| 15 | OGL0757V | (104) OGL0757 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 16 | OGL0757I | (104) OGL0757 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 17 | OGL0648I | (103) OGL0648 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 18 | OGL0648V | (103) OGL0648 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 19 | OGL0594V | (102) OGL0594 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 20 | OGL0594I | (102) OGL0594 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 21 | OGL0510I | (101) OGL0510 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 22 | OGL0510V | (101) OGL0510 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 23 | OGL0434V | (100) OGL0434 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |
| 24 | OGL0434I | (100) OGL0434 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12 | EXP PCS MODE G<br>YRO | Sequence 1-24 Non-I<br>nt in LMC Sequence<br>7 starting with OGL0<br>434 (18) | 2.5 Secs (2.5 Secs)<br>[==>] | [1] |



Proposal 15146 - HOPR for 18, Plan to remove 884 (P=8) or 741 (P=11) in V,I,H add in 590 (P=32) 74.92142 -69.45611 (19) - A New ...

|             |                                                                                                                                                                                                                                                                  |                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| Visit       | <p>Proposal 15146, HOPR for 18, Plan to remove 884 (P=8) or 741 (P=11) in V,I,H add in 590 (P=32) 74.92142 -69.45611 (19), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR, WFC3/UVIS</p> <p>Special Requirements: SCHED 30%</p> | Mon Nov 05 18:02:01 GMT 2018 |
| Diagnostics | (OGL0590V (19.001)) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser                                                                                                      |                              |

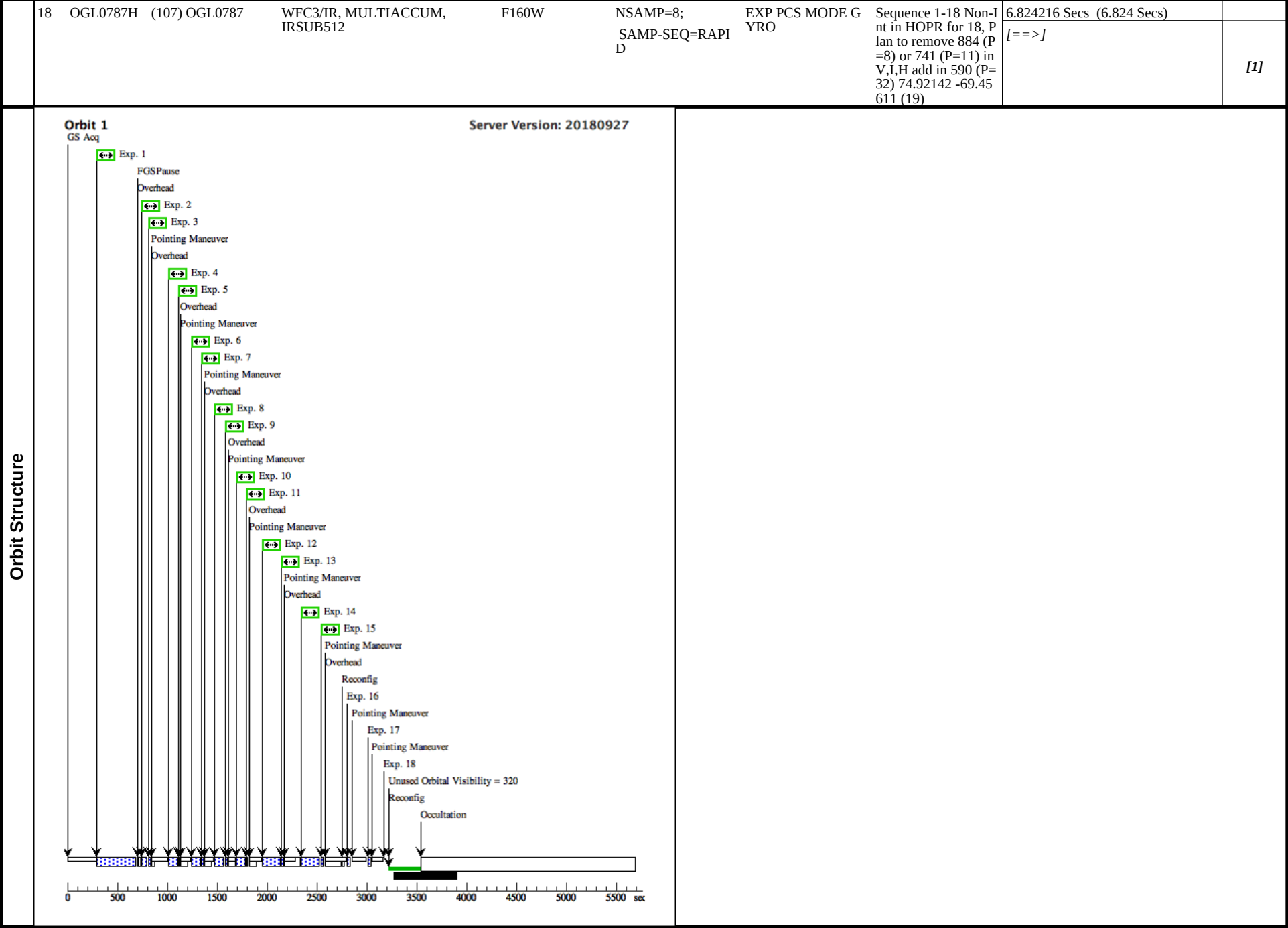
| Fixed Targets | #                                                                                                                                           | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes            | Miscellaneous           |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|-------------------|-------------------------|
|               | (100)                                                                                                                                       | OGL0434 | RA: 04 56 27.4992 (74.1145800d)<br>Dec: -69 22 46.60 (-69.37961d)<br>Equinox: J2000 |                          | V=(?)<br>H= 11.25 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (101)                                                                                                                                       | OGL0510 | RA: 04 58 5.5704 (74.5232100d)<br>Dec: -69 27 15.59 (-69.45433d)<br>Equinox: J2000  |                          | V=(?)<br>H= 11.16 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (102)                                                                                                                                       | OGL0594 | RA: 04 59 45.0768 (74.9378200d)<br>Dec: -69 29 35.52 (-69.49320d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.39 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (103)                                                                                                                                       | OGL0648 | RA: 05 00 48.3600 (75.2015000d)<br>Dec: -69 31 54.70 (-69.53186d)<br>Equinox: J2000 |                          | V=(?)<br>H= 12.57 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (104)                                                                                                                                       | OGL0757 | RA: 05 02 31.0536 (75.6293900d)<br>Dec: -69 23 49.31 (-69.39703d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.30 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (107)                                                                                                                                       | OGL0787 | RA: 05 03 9.0600 (75.7877500d)<br>Dec: -69 13 23.99 (-69.22333d)<br>Equinox: J2000  |                          | V=(?)<br>H= 12.16 | Reference Frame: SIMBAD |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                         |
|               | (109)                                                                                                                                       | OGL590  | RA: 04 59 41.1408 (74.9214200d)<br>Dec: -69 27 22.00 (-69.45611d)<br>Equinox: J2000 |                          | V=13.0            | Reference Frame: ICRS   |
|               | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                                         |         |                                                                                     |                          |                   |                         |

Proposal 15146 - HOPR for 18, Plan to remove 884 (P=8) or 741 (P=11) in V,I,H add in 590 (P=32) 74.92142 -69.45611 (19) - A New ...

| Exposures | # | Label    | Target        | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.      | Groups                                                                                                                          | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|----------|---------------|-----------------------------------|---------------|--------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------|
|           | 1 | OGL0590V | (109) OGL590  | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE FI NE | Sequence 1-18 Non-Int in HOPR for 18, Plan to remove 884 (P=8) or 741 (P=11) in V,I,H add in 590 (P=32) 74.92142 -69.45611 (19) | 360 Secs (360 Secs)<br>[==>]    | [1]   |
|           | 2 | OGL0590V | (109) OGL590  | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-18 Non-Int in HOPR for 18, Plan to remove 884 (P=8) or 741 (P=11) in V,I,H add in 590 (P=32) 74.92142 -69.45611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 3 | OGL0590I | (109) OGL590  | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-18 Non-Int in HOPR for 18, Plan to remove 884 (P=8) or 741 (P=11) in V,I,H add in 590 (P=32) 74.92142 -69.45611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 4 | OGL0434I | (100) OGL0434 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-18 Non-Int in HOPR for 18, Plan to remove 884 (P=8) or 741 (P=11) in V,I,H add in 590 (P=32) 74.92142 -69.45611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 5 | OGL0434V | (100) OGL0434 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-18 Non-Int in HOPR for 18, Plan to remove 884 (P=8) or 741 (P=11) in V,I,H add in 590 (P=32) 74.92142 -69.45611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 6 | OGL0510V | (101) OGL0510 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-18 Non-Int in HOPR for 18, Plan to remove 884 (P=8) or 741 (P=11) in V,I,H add in 590 (P=32) 74.92142 -69.45611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 7 | OGL0510I | (101) OGL0510 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-18 Non-Int in HOPR for 18, Plan to remove 884 (P=8) or 741 (P=11) in V,I,H add in 590 (P=32) 74.92142 -69.45611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 8 | OGL0594V | (102) OGL0594 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE G YRO | Sequence 1-18 Non-Int in HOPR for 18, Plan to remove 884 (P=8) or 741 (P=11) in V,I,H add in 590 (P=32) 74.92142 -69.45611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |

Proposal 15146 - HOPR for 18, Plan to remove 884 (P=8) or 741 (P=11) in V,I,H add in 590 (P=32) 74.92142 -69.45611 (19) - A New ...

|    |          |               |                                      |       |                                |                       |                                                                                                                                                        |                                     |     |
|----|----------|---------------|--------------------------------------|-------|--------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----|
| 9  | OGL0594I | (102) OGL0594 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12                       | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in HOPR for 18, P<br>lan to remove 884 (P<br>=8) or 741 (P=11) in<br>V,I,H add in 590 (P=<br>32) 74.92142 -69.45<br>611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]        | [1] |
| 10 | OGL0648I | (103) OGL0648 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F814W | FLASH=12                       | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in HOPR for 18, P<br>lan to remove 884 (P<br>=8) or 741 (P=11) in<br>V,I,H add in 590 (P=<br>32) 74.92142 -69.45<br>611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]        | [1] |
| 11 | OGL0648V | (103) OGL0648 | WFC3/UVIS, ACCUM,<br>UVIS2-C1K1C-SUB | F555W | FLASH=12                       | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in HOPR for 18, P<br>lan to remove 884 (P<br>=8) or 741 (P=11) in<br>V,I,H add in 590 (P=<br>32) 74.92142 -69.45<br>611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]        | [1] |
| 12 | OGL0757V | (104) OGL0757 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F555W | FLASH=12                       | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in HOPR for 18, P<br>lan to remove 884 (P<br>=8) or 741 (P=11) in<br>V,I,H add in 590 (P=<br>32) 74.92142 -69.45<br>611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]        | [1] |
| 13 | OGL0757I | (104) OGL0757 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F814W | FLASH=12                       | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in HOPR for 18, P<br>lan to remove 884 (P<br>=8) or 741 (P=11) in<br>V,I,H add in 590 (P=<br>32) 74.92142 -69.45<br>611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]        | [1] |
| 14 | OGL0787V | (107) OGL0787 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F555W | FLASH=12                       | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in HOPR for 18, P<br>lan to remove 884 (P<br>=8) or 741 (P=11) in<br>V,I,H add in 590 (P=<br>32) 74.92142 -69.45<br>611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]        | [1] |
| 15 | OGL0787I | (107) OGL0787 | WFC3/UVIS, ACCUM,<br>UVIS2-2K2C-SUB  | F814W | FLASH=12                       | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in HOPR for 18, P<br>lan to remove 884 (P<br>=8) or 741 (P=11) in<br>V,I,H add in 590 (P=<br>32) 74.92142 -69.45<br>611 (19) | 2.5 Secs (2.5 Secs)<br>[==>]        | [1] |
| 16 | OGL0590H | (109) OGL590  | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=RAPI<br>D | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in HOPR for 18, P<br>lan to remove 884 (P<br>=8) or 741 (P=11) in<br>V,I,H add in 590 (P=<br>32) 74.92142 -69.45<br>611 (19) | 6.824216 Secs (6.824 Secs)<br>[==>] | [1] |
| 17 | OGL0757H | (104) OGL0757 | WFC3/IR, MULTIACCUM,<br>IRSUB512     | F160W | NSAMP=8;<br>SAMP-SEQ=RAPI<br>D | EXP PCS MODE G<br>YRO | Sequence 1-18 Non-I<br>nt in HOPR for 18, P<br>lan to remove 884 (P<br>=8) or 741 (P=11) in<br>V,I,H add in 590 (P=<br>32) 74.92142 -69.45<br>611 (19) | 6.824216 Secs (6.824 Secs)<br>[==>] | [1] |



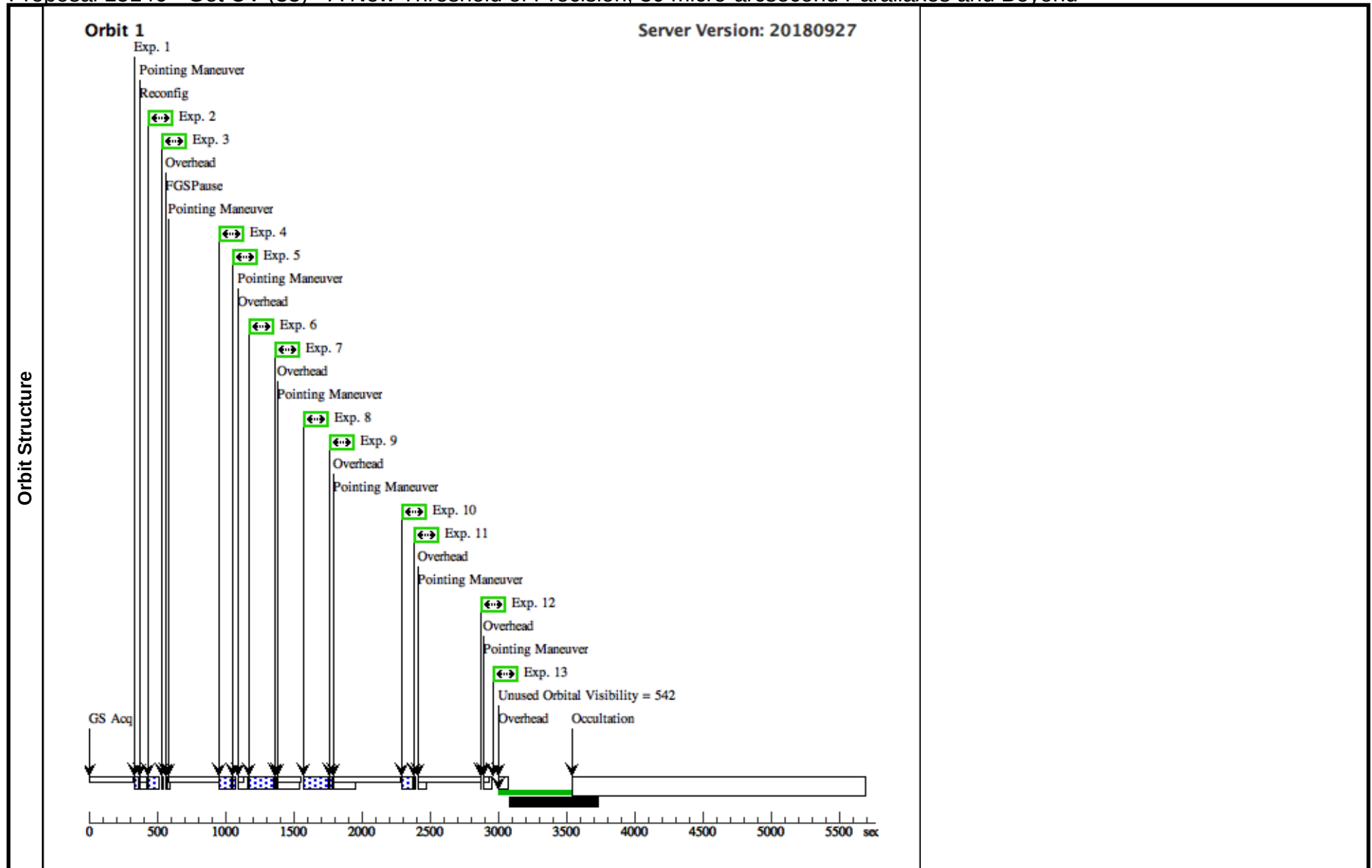
# Proposal 15146 - Get UV (33) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

|               |                                                                                                                                                                                                                                                        |         |                                                                                                                                                                                                                                                             |                          |                   |                              |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------------|------------------------------|
| Visit         | <b>Proposal 15146, Get UV (33), implementation</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS<br>Special Requirements: SCHED 30%; ON HOLD<br><i>On Hold Comments: Waiting for outcome of visits 34 and 35.</i> |         |                                                                                                                                                                                                                                                             |                          |                   | Mon Nov 05 18:02:01 GMT 2018 |
|               | <b>Diagnostics</b><br>(Get UV (33)) Warning (Orbit Planner): POINTING DIFFERENCE EXCEEDS LIMIT<br>(Get UV (33)) Warning (Orbit Planner): POINTING DIFFERENCE EXCEEDS LIMIT                                                                             |         |                                                                                                                                                                                                                                                             |                          |                   |                              |
| Fixed Targets | #                                                                                                                                                                                                                                                      | Name    | Target Coordinates                                                                                                                                                                                                                                          | Targ. Coord. Corrections | Fluxes            | Miscellaneous                |
|               | (53)                                                                                                                                                                                                                                                   | OGL1539 | RA: 05 18 22.0992 (79.5920800d)<br>Dec: -69 21 47.41 (-69.36317d)<br>Equinox: J2000<br><br><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i><br><i>Category=STAR</i><br><i>Description=[CEPHEID]</i> |                          | V=(?)<br>H= 12.35 | Reference Frame: SIMBAD      |
|               | (111)                                                                                                                                                                                                                                                  | OGL501  | RA: 04 57 51.0384 (74.4626600d)<br>Dec: -69 57 29.56 (-69.95821d)<br>Equinox: J2000<br><br><i>Comments:</i><br><i>Category=STAR</i><br><i>Description=[CEPHEID]</i>                                                                                         |                          | V=13.0            | Reference Frame: ICRS        |
|               | (112)                                                                                                                                                                                                                                                  | OGL512  | RA: 04 58 10.8048 (74.5450200d)<br>Dec: -69 56 58.96 (-69.94971d)<br>Equinox: J2000<br><br><i>Comments:</i><br><i>Category=STAR</i><br><i>Description=[CEPHEID]</i>                                                                                         |                          | V=13.0            | Reference Frame: ICRS        |
|               | (115)                                                                                                                                                                                                                                                  | OGL683  | RA: 05 01 24.9408 (75.3539200d)<br>Dec: -70 04 18.41 (-70.07178d)<br>Equinox: J2000<br><br><i>Comments:</i><br><i>Category=STAR</i><br><i>Description=[CEPHEID]</i>                                                                                         |                          | V=13.0            | Reference Frame: ICRS        |
|               | (121)                                                                                                                                                                                                                                                  | OGL1031 | RA: 05 07 42.1296 (76.9255400d)<br>Dec: -69 14 48.08 (-69.24669d)<br>Equinox: J2000<br><br><i>Comments:</i><br><i>Category=STAR</i><br><i>Description=[CEPHEID]</i>                                                                                         |                          | V=13.0            | Reference Frame: ICRS        |
|               | (123)                                                                                                                                                                                                                                                  | OGL0966 | RA: 05 06 47.9688 (76.6998700d)<br>Dec: -70 02 13.42 (-70.03706d)<br>Equinox: J2000<br><br><i>Comments:</i><br><i>Category=STAR</i><br><i>Description=[CEPHEID]</i>                                                                                         |                          | V=13.0            | Reference Frame: ICRS        |



# Proposal 15146 - Get UV (33) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

| Exposures | #  | Label     | Target        | Config,Mode,Aperture              | Spectral Els. | Opt. Params.               | Special Reqs.         | Groups                                   | Exp. Time (Total)/[Actual Dur.]    | Orbit |
|-----------|----|-----------|---------------|-----------------------------------|---------------|----------------------------|-----------------------|------------------------------------------|------------------------------------|-------|
|           | 1  | OGL0966H  | (123) OGL0966 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPID | EXP PCS MODE FI<br>NE | Sequence 1-13 Non-I<br>nt in Get UV (33) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 2  | OGL0966I  | (123) OGL0966 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12                   | EXP PCS MODE FI<br>NE | Sequence 1-13 Non-I<br>nt in Get UV (33) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 3  | OGL0966V  | (123) OGL0966 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12                   | EXP PCS MODE FI<br>NE | Sequence 1-13 Non-I<br>nt in Get UV (33) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 4  | OGL0512V  | (112) OGL512  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-13 Non-I<br>nt in Get UV (33) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 5  | OGL0512I  | (112) OGL512  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-13 Non-I<br>nt in Get UV (33) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 6  | OGL0501I  | (111) OGL501  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB  | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-13 Non-I<br>nt in Get UV (33) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 7  | OGL0501V  | (111) OGL501  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB  | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-13 Non-I<br>nt in Get UV (33) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 8  | OGL0683V  | (115) OGL683  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB  | F555W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-13 Non-I<br>nt in Get UV (33) | 4 Secs (4 Secs)<br>[==>]           | [1]   |
|           | 9  | OGL0683I  | (115) OGL683  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB  | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-13 Non-I<br>nt in Get UV (33) | 4 Secs (4 Secs)<br>[==>]           | [1]   |
|           | 10 | OGL01031I | (121) OGL1031 | WFC3/UVIS, ACCUM, UVIS            | F814W         | FLASH=12;<br>BIN=2         | EXP PCS MODE G<br>YRO | Sequence 1-13 Non-I<br>nt in Get UV (33) | 4 Secs (4 Secs)<br>[==>]           | [1]   |
|           | 11 | OGL01031V | (121) OGL1031 | WFC3/UVIS, ACCUM, UVIS            | F555W         | FLASH=12;<br>BIN=2         | EXP PCS MODE G<br>YRO | Sequence 1-13 Non-I<br>nt in Get UV (33) | 4 Secs (4 Secs)<br>[==>]           | [1]   |
|           | 12 | OGL01539V | (53) OGL1539  | WFC3/UVIS, ACCUM, UVIS            | F555W         | FLASH=12;<br>BIN=2         | EXP PCS MODE G<br>YRO | Sequence 1-13 Non-I<br>nt in Get UV (33) | 4 Secs (4 Secs)<br>[==>]           | [1]   |
|           | 13 | OGL01539I | (53) OGL1539  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                   | EXP PCS MODE G<br>YRO | Sequence 1-13 Non-I<br>nt in Get UV (33) | 4 Secs (4 Secs)<br>[==>]           | [1]   |

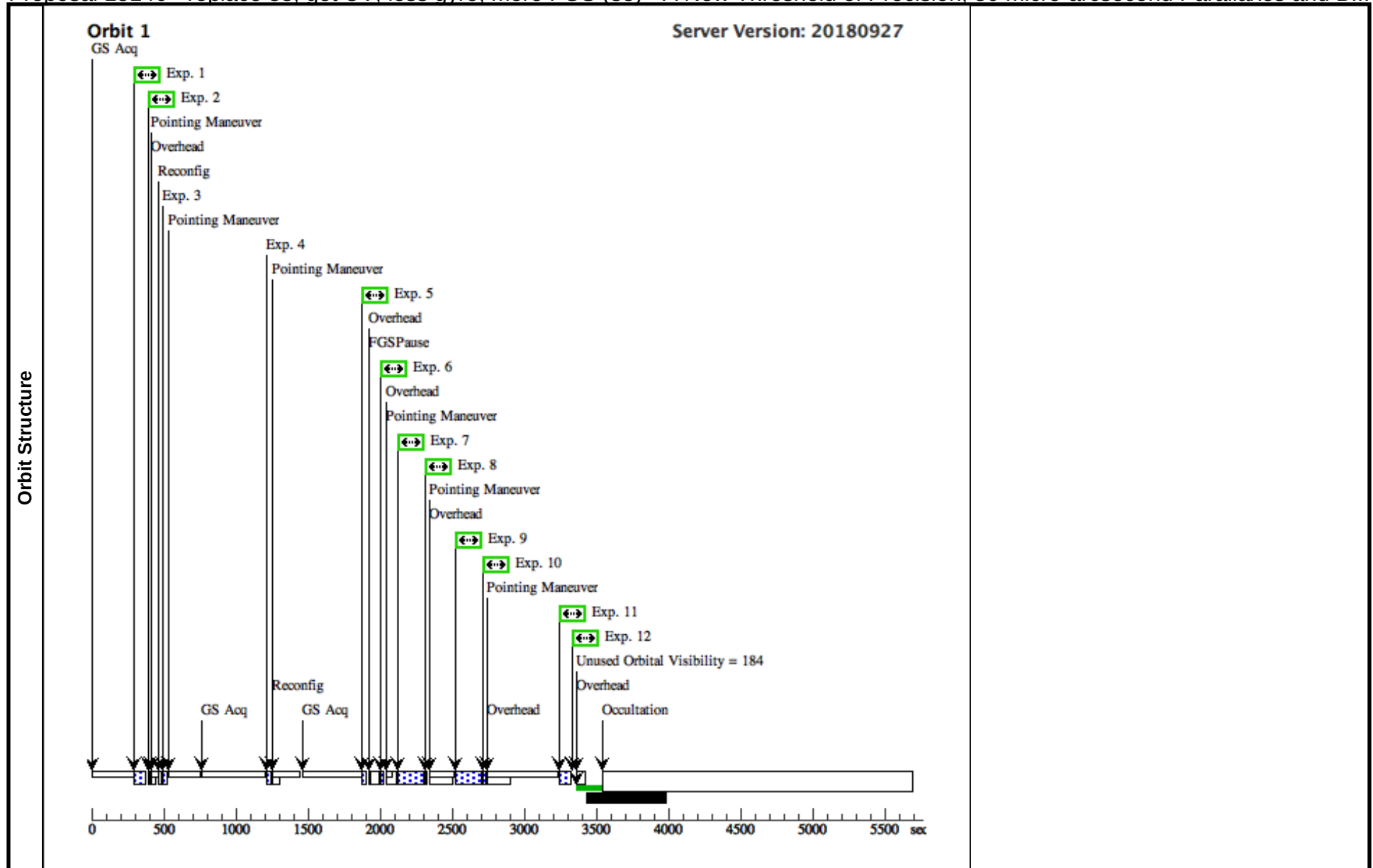


# Proposal 15146 - replace 33, get UV, less gyro, more FGS (35) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and B...

| Visit         | Proposal 15146, replace 33, get UV, less gyro, more FGS (35), scheduling                                                  |         |                                                                                     |                          |        | Mon Nov 05 18:02:01 GMT 2018 |
|---------------|---------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|--------|------------------------------|
|               | <b>Diagnostic Status: No Diagnostics</b><br>Scientific Instruments: WFC3/IR, WFC3/UVIS<br>Special Requirements: SCHED 30% |         |                                                                                     |                          |        |                              |
| Fixed Targets | #                                                                                                                         | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes | Miscellaneous                |
|               | (111)                                                                                                                     | OGL501  | RA: 04 57 51.0384 (74.4626600d)<br>Dec: -69 57 29.56 (-69.95821d)<br>Equinox: J2000 |                          | V=13.0 | Reference Frame: ICRS        |
|               | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                       |         |                                                                                     |                          |        |                              |
|               | (112)                                                                                                                     | OGL512  | RA: 04 58 10.8048 (74.5450200d)<br>Dec: -69 56 58.96 (-69.94971d)<br>Equinox: J2000 |                          | V=13.0 | Reference Frame: ICRS        |
|               | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                       |         |                                                                                     |                          |        |                              |
|               | (113)                                                                                                                     | OGL528  | RA: 04 58 32.7792 (74.6365800d)<br>Dec: -70 20 45.71 (-70.34603d)<br>Equinox: J2000 |                          | V=13.0 | Reference Frame: ICRS        |
|               | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                       |         |                                                                                     |                          |        |                              |
| Fixed Targets | (115)                                                                                                                     | OGL683  | RA: 05 01 24.9408 (75.3539200d)<br>Dec: -70 04 18.41 (-70.07178d)<br>Equinox: J2000 |                          | V=13.0 | Reference Frame: ICRS        |
|               | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                       |         |                                                                                     |                          |        |                              |
|               | (121)                                                                                                                     | OGL1031 | RA: 05 07 42.1296 (76.9255400d)<br>Dec: -69 14 48.08 (-69.24669d)<br>Equinox: J2000 |                          | V=13.0 | Reference Frame: ICRS        |
|               | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                       |         |                                                                                     |                          |        |                              |
|               | (123)                                                                                                                     | OGL0966 | RA: 05 06 47.9688 (76.6998700d)<br>Dec: -70 02 13.42 (-70.03706d)<br>Equinox: J2000 |                          | V=13.0 | Reference Frame: ICRS        |
|               | Comments:<br>Category=STAR<br>Description=[CEPHEID]                                                                       |         |                                                                                     |                          |        |                              |

Proposal 15146 - replace 33, get UV, less gyro, more FGS (35) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and B...

| Exposures | #  | Label         | Target        | Config,Mode,Aperture              | Spectral Els. | Opt. Params.                   | Special Reqs.         | Groups                                                                          | Exp. Time (Total)/[Actual Dur.]    | Orbit |
|-----------|----|---------------|---------------|-----------------------------------|---------------|--------------------------------|-----------------------|---------------------------------------------------------------------------------|------------------------------------|-------|
|           | 1  | OGL0966I      | (123) OGL0966 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F814W         | FLASH=12                       | EXP PCS MODE FI<br>NE | Sequence 1-12 Non-I<br>nt in replace 33, get<br>UV, less gyro, more<br>FGS (35) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 2  | OGL0966V      | (123) OGL0966 | WFC3/UVIS, ACCUM, UVIS2-C512C-SUB | F555W         | FLASH=12                       | EXP PCS MODE FI<br>NE | Sequence 1-12 Non-I<br>nt in replace 33, get<br>UV, less gyro, more<br>FGS (35) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 3  | OGL0966H      | (123) OGL0966 | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=8;<br>SAMP-SEQ=RAPI<br>D | EXP PCS MODE FI<br>NE | Sequence 1-12 Non-I<br>nt in replace 33, get<br>UV, less gyro, more<br>FGS (35) | 2.22252 Secs (2.223 Secs)<br>[==>] | [1]   |
|           | 4  | OGL0528H      | (113) OGL528  | WFC3/IR, MULTIACCUM, IRSUB256     | F160W         | NSAMP=4;<br>SAMP-SEQ=RAPI<br>D | EXP PCS MODE FI<br>NE | Sequence 1-12 Non-I<br>nt in replace 33, get<br>UV, less gyro, more<br>FGS (35) | 1.11126 Secs (1.111 Secs)<br>[==>] | [1]   |
|           | 5  | OGL0512V      | (112) OGL512  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12                       | EXP PCS MODE FI<br>NE | Sequence 1-12 Non-I<br>nt in replace 33, get<br>UV, less gyro, more<br>FGS (35) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 6  | OGL0512I      | (112) OGL512  | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12                       | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replace 33, get<br>UV, less gyro, more<br>FGS (35) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 7  | OGL0501I      | (111) OGL501  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB  | F814W         | FLASH=12                       | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replace 33, get<br>UV, less gyro, more<br>FGS (35) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 8  | OGL0501V      | (111) OGL501  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB  | F555W         | FLASH=12                       | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replace 33, get<br>UV, less gyro, more<br>FGS (35) | 2.5 Secs (2.5 Secs)<br>[==>]       | [1]   |
|           | 9  | OGL0683V      | (115) OGL683  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB  | F555W         | FLASH=12                       | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replace 33, get<br>UV, less gyro, more<br>FGS (35) | 4 Secs (4 Secs)<br>[==>]           | [1]   |
|           | 10 | OGL0683I      | (115) OGL683  | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB  | F814W         | FLASH=12                       | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replace 33, get<br>UV, less gyro, more<br>FGS (35) | 4 Secs (4 Secs)<br>[==>]           | [1]   |
|           | 11 | OGL01031I     | (121) OGL1031 | WFC3/UVIS, ACCUM, UVIS            | F814W         | FLASH=12;<br>BIN=2             | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replace 33, get<br>UV, less gyro, more<br>FGS (35) | 4 Secs (4 Secs)<br>[==>]           | [1]   |
|           | 12 | OGL01031<br>V | (121) OGL1031 | WFC3/UVIS, ACCUM, UVIS            | F555W         | FLASH=12;<br>BIN=2             | EXP PCS MODE G<br>YRO | Sequence 1-12 Non-I<br>nt in replace 33, get<br>UV, less gyro, more<br>FGS (35) | 4 Secs (4 Secs)<br>[==>]           | [1]   |



# Proposal 15146 - Get UV, no gyro, all FGS (36) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

|               |                                                                                                                                             |         |                                                                                     |                          |                   |                              |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|--------------------------|-------------------|------------------------------|
| Visit         | Proposal 15146, Get UV, no gyro, all FGS (36), implementation                                                                               |         |                                                                                     |                          |                   | Mon Nov 05 18:02:01 GMT 2018 |
|               | Diagnostic Status: No Diagnostics                                                                                                           |         |                                                                                     |                          |                   |                              |
|               | Scientific Instruments: WFC3/UVIS                                                                                                           |         |                                                                                     |                          |                   |                              |
|               | Special Requirements: SCHED 30%                                                                                                             |         |                                                                                     |                          |                   |                              |
| Fixed Targets | #                                                                                                                                           | Name    | Target Coordinates                                                                  | Targ. Coord. Corrections | Fluxes            | Miscellaneous                |
|               | (40)                                                                                                                                        | OGL1862 | RA: 05 24 13.4496 (81.0560400d)<br>Dec: -69 30 1.58 (-69.50044d)<br>Equinox: J2000  |                          | V=(?)<br>H= 12.64 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |
|               | (58)                                                                                                                                        | OGL1442 | RA: 05 16 19.6296 (79.0817900d)<br>Dec: -69 18 20.20 (-69.30561d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.19 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |
|               | (60)                                                                                                                                        | OGL1313 | RA: 05 14 19.3800 (78.5807500d)<br>Dec: -69 29 24.22 (-69.49006d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.40 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |
|               | (61)                                                                                                                                        | OGL1353 | RA: 05 15 10.4208 (78.7934200d)<br>Dec: -69 22 58.01 (-69.38278d)<br>Equinox: J2000 |                          | V=(?)<br>H= 13.15 | Reference Frame: SIMBAD      |
|               | Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.<br>Category=STAR<br>Description=[CEPHEID] |         |                                                                                     |                          |                   |                              |

# Proposal 15146 - Get UV, no gyro, all FGS (36) - A New Threshold of Precision, 30 micro-arcsecond Parallaxes and Beyond

| Exposures | # | Label    | Target       | Config,Mode,Aperture              | Spectral Els. | Opt. Params. | Special Reqs.                                                                   | Groups                                                       | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|----------|--------------|-----------------------------------|---------------|--------------|---------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------|-------|
|           | 1 | OGL1442I | (58) OGL1442 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE FI<br>NE;<br>GS ACQ SCENARI<br>O BASE1B3                           | Sequence 1-8 Non-In<br>t in Get UV, no gyro,<br>all FGS (36) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 2 | OGL1442V | (58) OGL1442 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE FI<br>NE                                                           | Sequence 1-8 Non-In<br>t in Get UV, no gyro,<br>all FGS (36) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 3 | OGL1353V | (61) OGL1353 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB  | F555W         | FLASH=12     | NEW OBSET;<br>EXP PCS MODE G<br>YRO                                             | Sequence 1-8 Non-In<br>t in Get UV, no gyro,<br>all FGS (36) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 4 | OGL1353I | (61) OGL1353 | WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB  | F814W         | FLASH=12     | EXP PCS MODE G<br>YRO                                                           | Sequence 1-8 Non-In<br>t in Get UV, no gyro,<br>all FGS (36) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 5 | OGL1313V | (60) OGL1313 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | NEW OBSET FULL<br>ACQ;<br>EXP PCS MODE FI<br>NE;<br>GS ACQ SCENARI<br>O BASE1B3 | Sequence 1-8 Non-In<br>t in Get UV, no gyro,<br>all FGS (36) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 6 | OGL1313I | (60) OGL1313 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | EXP PCS MODE FI<br>NE                                                           | Sequence 1-8 Non-In<br>t in Get UV, no gyro,<br>all FGS (36) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 7 | OGL1862I | (40) OGL1862 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F814W         | FLASH=12     | NEW OBSET FULL<br>ACQ;<br>EXP PCS MODE FI<br>NE;<br>GS ACQ SCENARI<br>O BASE1B3 | Sequence 1-8 Non-In<br>t in Get UV, no gyro,<br>all FGS (36) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |
|           | 8 | OGL1862V | (40) OGL1862 | WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB | F555W         | FLASH=12     | EXP PCS MODE FI<br>NE                                                           | Sequence 1-8 Non-In<br>t in Get UV, no gyro,<br>all FGS (36) | 2.5 Secs (2.5 Secs)<br>[==>]    | [1]   |

