



16419 - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Cycle: 28, Proposal Category: CAL/ACS

(Availability Mode: RESTRICTED)

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> | <i>E-Mail</i> |
|--------------------------------------|--|-----------------------|
| Dr. Jenna Ryon (PI) (Contact) | Space Telescope Science Institute | ryon@stsci.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 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:13.0 | yes |
| 02 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:14.0 | yes |
| 03 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:14.0 | yes |
| 04 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:15.0 | yes |
| 05 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:15.0 | yes |
| 06 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:15.0 | yes |
| 07 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:16.0 | yes |
| 08 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:16.0 | yes |
| 09 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:17.0 | yes |
| 10 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:17.0 | yes |
| 11 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:17.0 | yes |
| 12 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:18.0 | yes |
| 13 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:18.0 | yes |
| 14 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:18.0 | yes |

Proposal 16419 (STScI Edit Number: 0, Created: Monday, August 24, 2020 at 3:00:31 PM Eastern Standard Time) - Overview

| <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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 15 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:19.0 | yes |
| 16 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:19.0 | yes |
| 17 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:20.0 | yes |
| 18 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:20.0 | yes |
| 19 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:20.0 | yes |
| 20 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:21.0 | yes |
| 21 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:21.0 | yes |
| 22 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:21.0 | yes |
| 23 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:22.0 | yes |
| 24 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:22.0 | yes |
| 25 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:23.0 | yes |
| 26 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:23.0 | yes |
| 27 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:23.0 | yes |
| 28 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:24.0 | yes |
| 29 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:24.0 | yes |
| 30 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:24.0 | yes |
| 31 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:25.0 | yes |
| 32 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:25.0 | yes |
| 33 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:26.0 | yes |
| 34 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:26.0 | yes |
| 35 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:26.0 | yes |
| 36 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:27.0 | yes |
| 37 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:27.0 | yes |
| 38 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:27.0 | yes |
| 39 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:28.0 | yes |

| <i>Visit</i> | <i>Targets used in Visit</i> | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 40 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:28.0 | yes |
| 41 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:29.0 | yes |
| 42 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:29.0 | yes |
| 43 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:29.0 | yes |
| 44 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:30.0 | yes |
| 45 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:30.0 | yes |
| 46 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:30.0 | yes |
| 47 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:31.0 | yes |
| 48 | DARK | ACS/WFC | 1 | 24-Aug-2020 16:00:31.0 | yes |

48 Total Orbits Used

ABSTRACT

The purpose of this program is to obtain a set of calibration dark frames over the course of a single anneal cycle with reduced exposure time and post-flash relative to the CCD Daily Monitor program. This is a follow-up to program 16116, which obtained 340s darks at three flash levels. Analysis of that program found promising results in recovery of warm/hot pixels and reducing saturated pixels. In this program we will obtain 96 long (550s) darks and 24 short (0.5s) darks with 25e- post-flash over the course of an anneal cycle, concurrently with the Daily Monitor. We will compare the 550s superdark from this program to that from the Daily Monitor to study warm/hot pixel recovery and noise properties of each.

OBSERVING DESCRIPTION

This program will obtain 96 long (340s) darks and 24 short (0.5s) darks post-flashed to 25e- over 48 internal orbits. This program must be executed between two consecutive ACS anneals in order to compare the results directly to the Daily Monitor. The period between two consecutive ACS anneals is typically ~28 days, so we created two GROUP WITHIN 28-day special requirements, each containing 24 visits (to get around the 32 visit limit of GROUP WITHIN). Both sets of 24 visits should be executed during the same 28 day period. The latter 2/3 of the Daily Monitor program may need to be modified based on the results of this program, so scheduling this program as early as possible in Cycle 28 would be greatly preferred. We would also prefer if these data could be taken at the same cadence as the Daily Monitor, i.e., 4 orbits on each of 3 days per week, such as Tuesday, Thursday, Saturday. This is reflected in comments of the form "Week 1, Day 1" in each visit. If a 3x per week cadence is too difficult to schedule, spreading the observations evenly over the 28 day period between ACS anneals would be preferred over clustering them at the beginning or

Proposal 16419 (STScI Edit Number: 0, Created: Monday, August 24, 2020 at 3:00:31 PM Eastern Standard Time) - Overview
end of the period.

Proposal 16419 - Short dark, 2 long darks (01) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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|------------------------|--|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (01), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: SEQ 01,02,03,04 WITHIN 1 D <i>Comments: Week 1, Day 1</i> | | | | | | | | | |
| | Diagnostics (Short dark, 2 long darks (01)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| Orbit Structure | <p>Orbit 1 Server Version: 20200619</p> <p>Exp. 1 Unused Orbital Visibility = 3142</p> <p>Exp. 2 Exp. 3 Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p> | | | | | | | | | |
| | | | | | | | | | | |

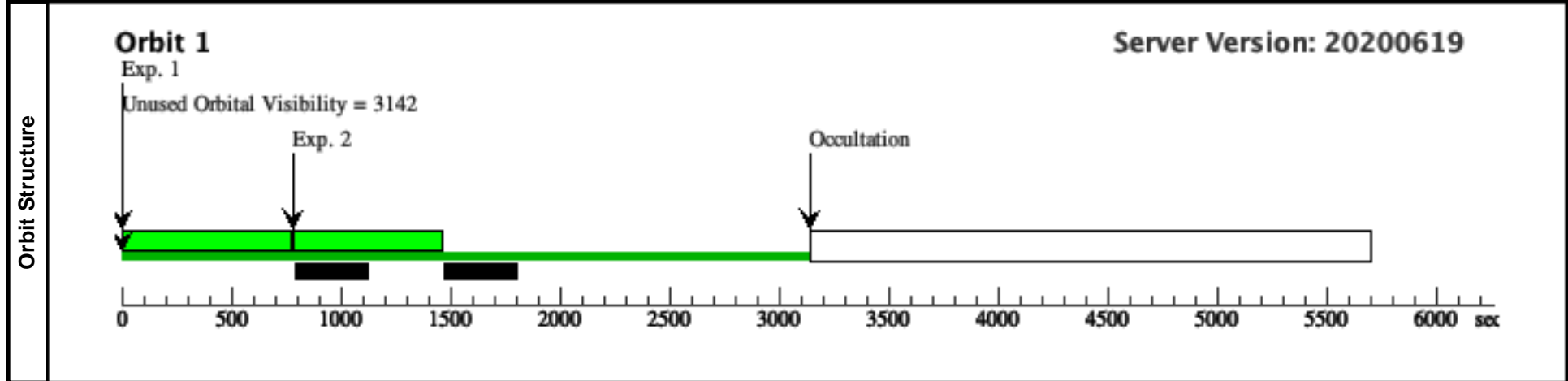
Proposal 16419 - 2 long darks (02) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (02), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 1, Day 1</i></p> |
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| Diagnostics | (2 long darks (02)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |



Server Version: 20200619

Proposal 16419 - Short dark, 2 long darks (03) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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| Visit | Proposal 16419, Short dark, 2 long darks (03), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: Week 1, Day 1</i> | | | | | | | | | |
| | Diagnostics (Short dark, 2 long darks (03)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| Orbit Structure | <div style="display: flex; justify-content: space-between;"> <div> <p>Orbit 1 Unused Orbital Visibility = 3142</p> <p>The timeline shows three exposures (Exp. 1, Exp. 2, Exp. 3) as green bars from 0 to approximately 1650 seconds. Below these are three black bars representing occultations. An 'Occultation' event is marked at approximately 3142 seconds, after which the timeline continues to 6000 seconds.</p> </div> <div> <p>Server Version: 20200619</p> </div> </div> | | | | | | | | | |

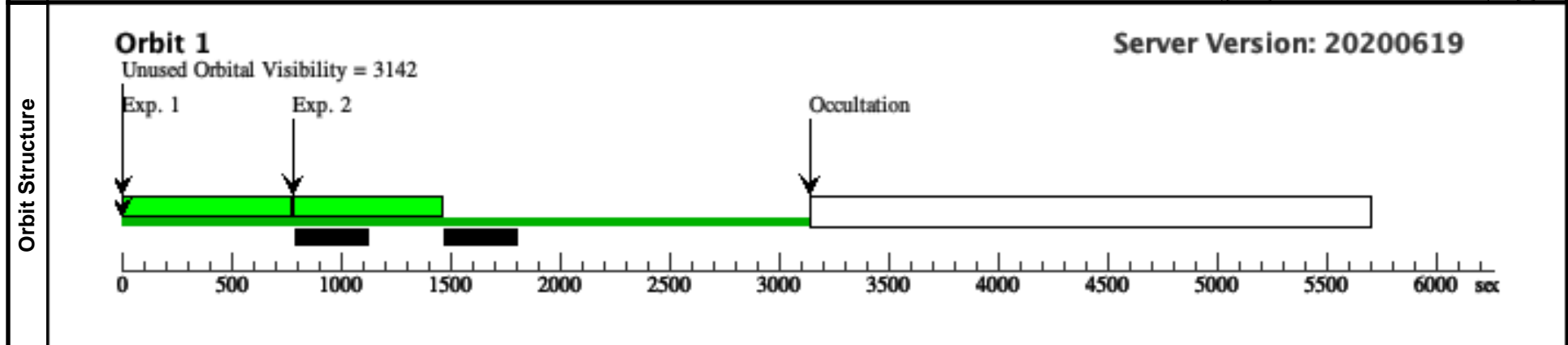
Proposal 16419 - 2 long darks (04) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (04), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 1, Day 1</i></p> |
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| Diagnostics | (2 long darks (04)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|--------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | PAREXP=NONE | | | [==>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | FLASH=25.0 | | | [==>] | [1] |



Proposal 16419 - Short dark, 2 long darks (05) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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|------------------------|--|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (05), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: AFTER 01 BY 1.5 D TO 2.5 D; SEQ 05,06,07,08 WITHIN 1 D <i>Comments: Week 1, Day 2</i> | | | | | | | | | |
| | Diagnostics (Short dark, 2 long darks (05)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [==>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| Orbit Structure | <p>Orbit 1 Server Version: 20200619</p> <p>Exp. 1 Unused Orbital Visibility = 3142</p> <p>Exp. 2 Exp. 3 Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p> | | | | | | | | | |
| | | | | | | | | | | |

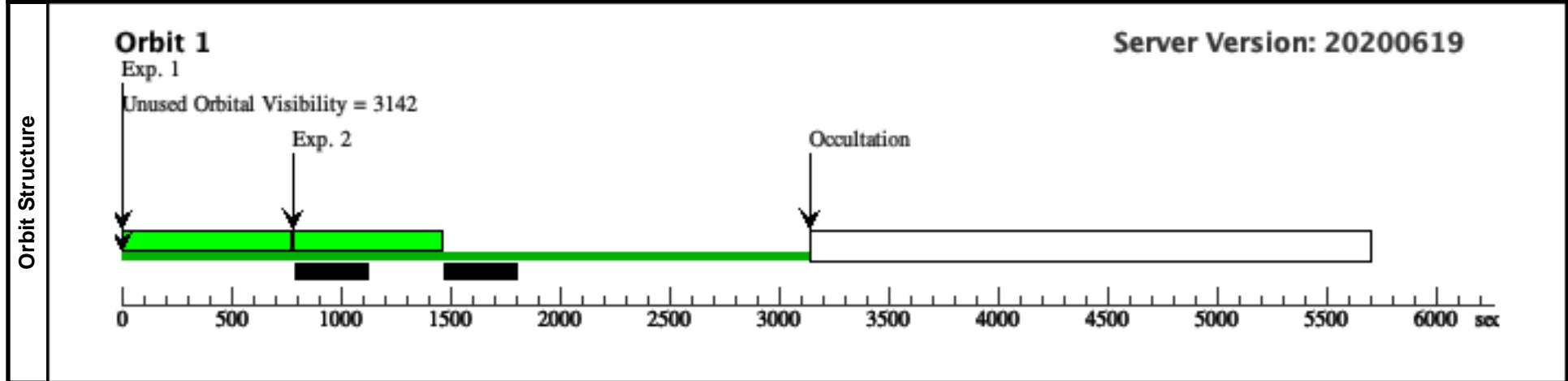
Proposal 16419 - 2 long darks (06) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (06), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 1, Day 2</i></p> |
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| Diagnostics | (2 long darks (06)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |



Proposal 16419 - Short dark, 2 long darks (07) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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|------------------------|---|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (07), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: Week 1, Day 2</i> | | | | | | | | | |
| | (Short dark, 2 long darks (07)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| Orbit Structure | <p>Orbit 1 Server Version: 20200619</p> <p>Exp. 1 Unused Orbital Visibility = 3142</p> <p>Exp. 2 Exp. 3 Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p> | | | | | | | | | |
| | <p>Detailed description of the Orbit Structure diagram: The diagram shows a horizontal timeline from 0 to 6000 seconds. A green bar representing 'Exp. 1' starts at 0 and ends at approximately 1650 seconds. Below this bar, two black bars represent 'Exp. 2' (from ~300s to ~600s) and 'Exp. 3' (from ~1000s to ~1300s). A white bar representing 'Occultation' starts at approximately 3100 seconds and ends at approximately 5700 seconds. The text 'Unused Orbital Visibility = 3142' is shown at the top left, and 'Server Version: 20200619' is at the top right.</p> | | | | | | | | | |

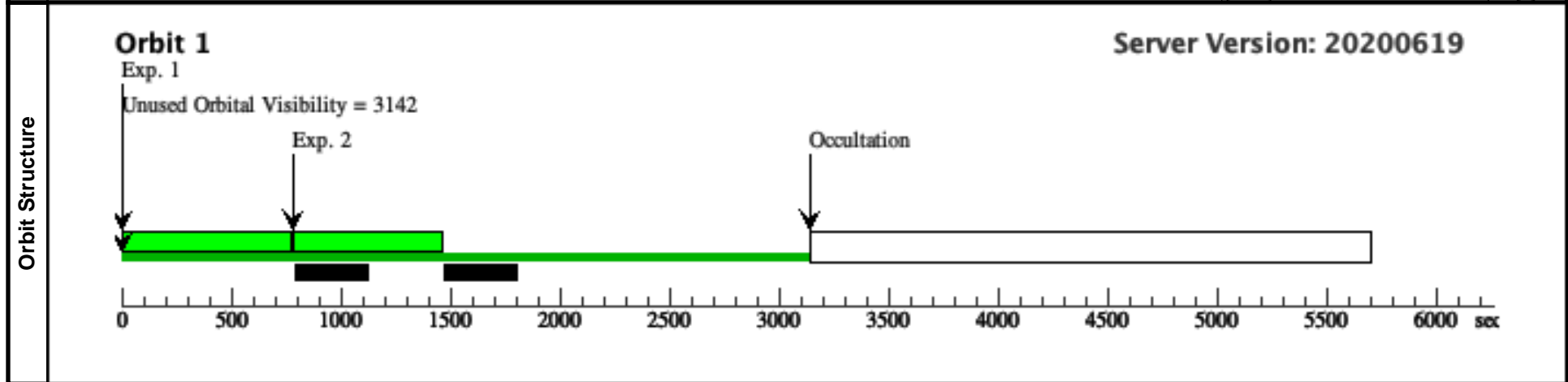
Proposal 16419 - 2 long darks (08) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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|--------------|--|
| Visit | <p>Proposal 16419, 2 long darks (08), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 1, Day 2</i></p> |
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|--------------------|---|
| Diagnostics | (2 long darks (08)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
|--------------------|---|

| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |



Proposal 16419 - Short dark, 2 long darks (09) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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|------------------------|--|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (09), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: AFTER 01 BY 3.5 D TO 4.5 D; SEQ 09,10,11,12 WITHIN 1 D <i>Comments: Week 1, Day 3</i> | | | | | | | | | |
| | Diagnostics (Short dark, 2 long darks (09)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [==>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| Orbit Structure | Orbit 1 Unused Orbital Visibility = 3142 Server Version: 20200619 | | | | | | | | | |
| | <p>The figure is a timeline plot for Orbit 1. The x-axis is labeled 'sec' and ranges from 0 to 6000 with major ticks every 500 seconds. A green horizontal bar represents the total exposure duration, starting at 0 and ending at approximately 3100 seconds. Three vertical arrows point to the start of 'Exp. 1' (at 0s), 'Exp. 2' (at approximately 300s), and 'Exp. 3' (at 1000s). Below the green bar, there are three black rectangular blocks representing dark periods. A white rectangular bar labeled 'Occultation' starts at approximately 3100 seconds and extends to the end of the orbit at 6000 seconds. The text 'Unused Orbital Visibility = 3142' is located at the top left, and 'Server Version: 20200619' is at the top right.</p> | | | | | | | | | |

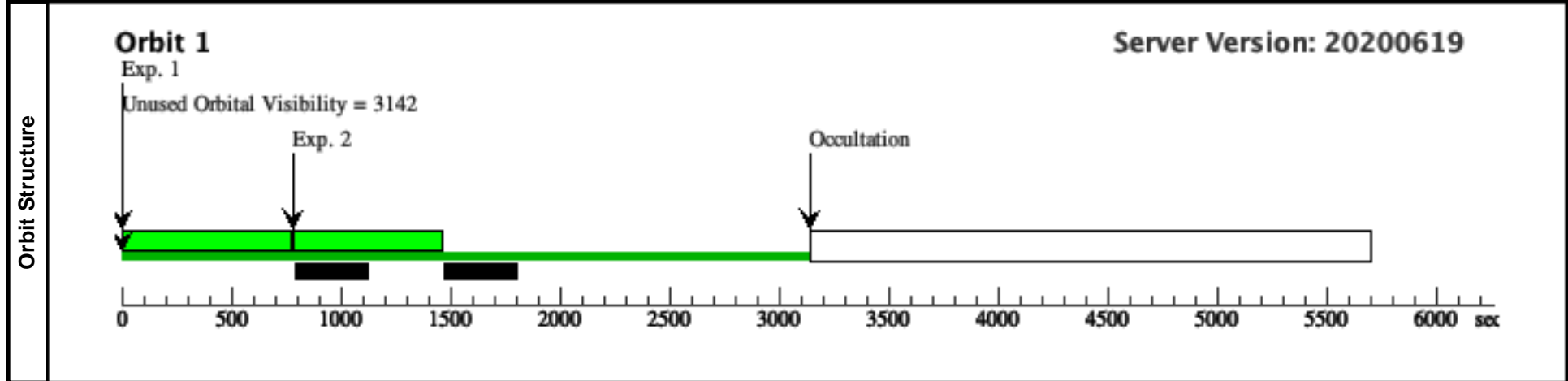
Proposal 16419 - 2 long darks (10) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (10), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 1, Day 3</i></p> |
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| Diagnostics | (2 long darks (10)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |



Proposal 16419 - Short dark, 2 long darks (11) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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|------------------------|---|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (11), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: Week 1, Day 3</i> | | | | | | | | | |
| | (Short dark, 2 long darks (11)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [==>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| Orbit Structure | <p>Orbit 1 Server Version: 20200619</p> <p>Exp. 1 Unused Orbital Visibility = 3142</p> <p>Exp. 2 Exp. 3 Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p> | | | | | | | | | |
| | <p>Diagram description: The orbit structure plot shows a timeline from 0 to 6000 seconds. A green bar representing 'Exp. 1' starts at 0 and ends at approximately 1650 seconds. Two black bars representing 'Exp. 2' and 'Exp. 3' are located below the green bar, with 'Exp. 2' from ~300s to ~600s and 'Exp. 3' from ~1000s to ~1300s. A white bar representing 'Occultation' starts at approximately 3100 seconds and ends at approximately 5700 seconds. The text 'Unused Orbital Visibility = 3142' is shown at the top left of the plot area.</p> | | | | | | | | | |

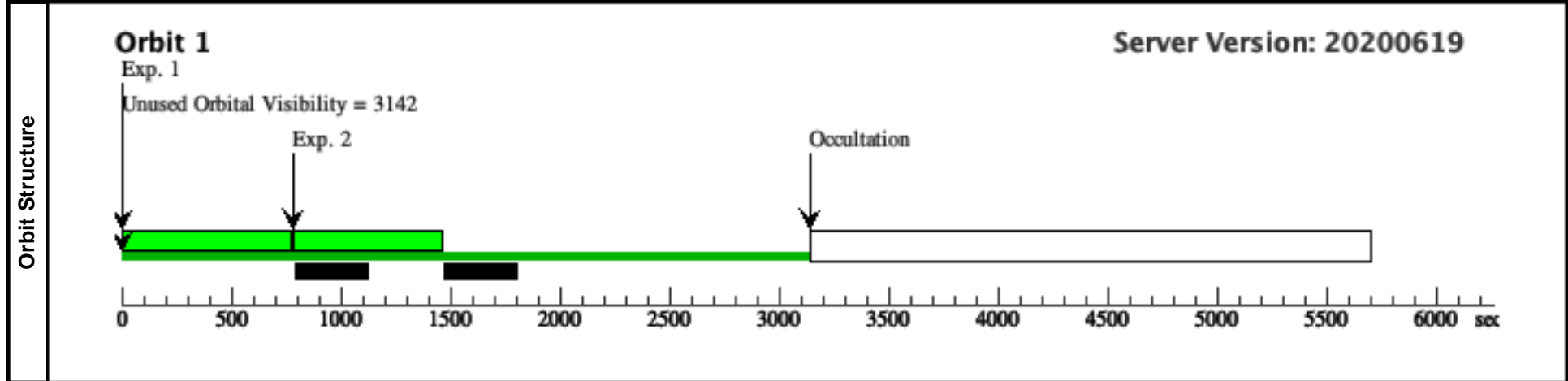
Proposal 16419 - 2 long darks (12) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (12), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 1, Day 3</i></p> |
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| Diagnostics | (2 long darks (12)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |



Proposal 16419 - Short dark, 2 long darks (13) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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|------------------------|---|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (13), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: AFTER 01 BY 6.5 D TO 7.5 D; SEQ 13,14,15,16 WITHIN 1 D <i>Comments: Week 2, Day 1</i> | | | | | | | | | |
| | (Short dark, 2 long darks (13)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| Orbit Structure | <p>Orbit 1 Unused Orbital Visibility = 3142</p> <p>The diagram shows a timeline for Orbit 1. The x-axis represents time in seconds from 0 to 6000. A green bar indicates the total exposure duration, which ends at approximately 3142 seconds. Three specific exposures are marked: Exp. 1 (0-0.5s), Exp. 2 (approx. 250-300s), and Exp. 3 (approx. 1000-1050s). Black bars below the green bar represent occultations. A white bar from 3142s to 5700s represents the occultation period. The text 'Server Version: 20200619' is in the top right.</p> | | | | | | | | | |
| | <p>Server Version: 20200619</p> | | | | | | | | | |

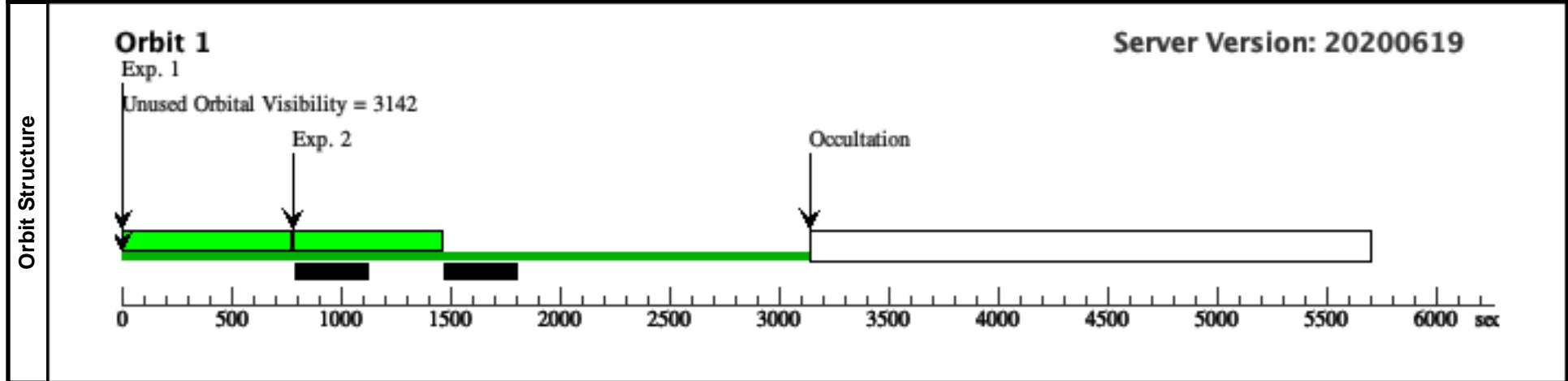
Proposal 16419 - 2 long darks (14) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (14), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 2, Day 1</i></p> |
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| Diagnostics | (2 long darks (14)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |



Proposal 16419 - Short dark, 2 long darks (15) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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|------------------------|--|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (15), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: Week 2, Day 1</i> | | | | | | | | | |
| | (Short dark, 2 long darks (15)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| Orbit Structure | <p>Orbit 1 Server Version: 20200619</p> <p>Exp. 1 Unused Orbital Visibility = 3142</p> <p>Exp. 2 Exp. 3 Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p> | | | | | | | | | |
| | <p>Exp. 1</p> | | | | | | | | | |

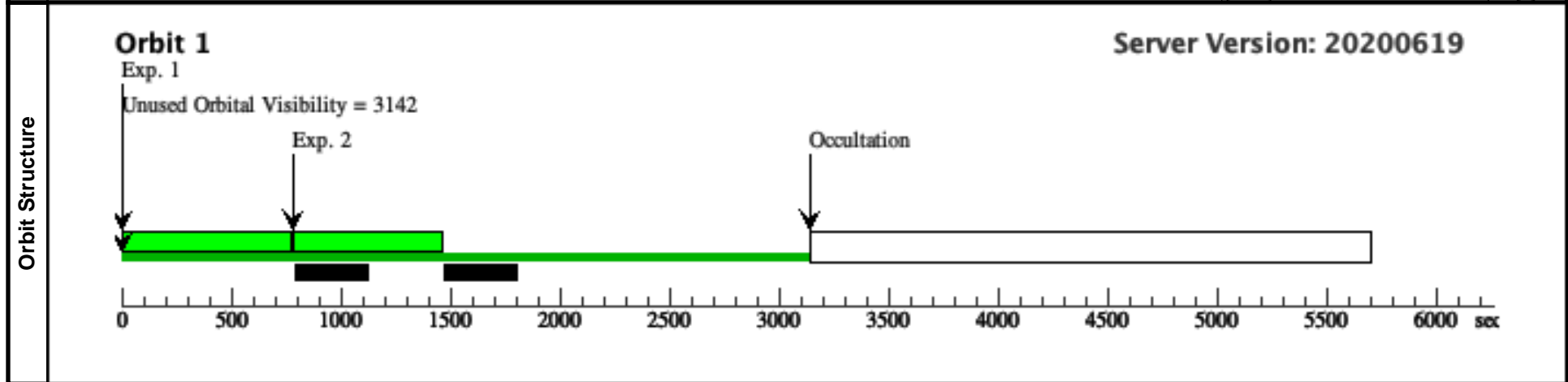
Proposal 16419 - 2 long darks (16) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (16), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 2, Day 1</i></p> |
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| Diagnostics | (2 long darks (16)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |



Proposal 16419 - Short dark, 2 long darks (17) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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|------------------------|--|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (17), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: AFTER 01 BY 8.5 D TO 9.5 D; SEQ 17,18,19,20 WITHIN 1 D <i>Comments: Week 2, Day 2</i> | | | | | | | | | |
| | (Short dark, 2 long darks (17)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| Orbit Structure | <p>Orbit 1 Server Version: 20200619</p> <p>Exp. 1 Unused Orbital Visibility = 3142</p> <p>Exp. 2 Exp. 3 Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p> | | | | | | | | | |

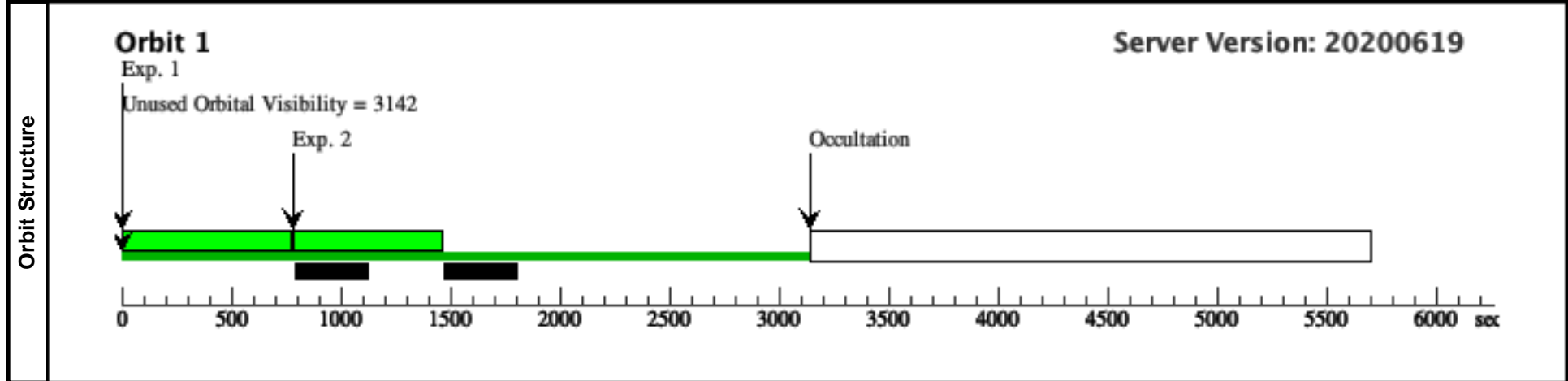
Proposal 16419 - 2 long darks (18) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (18), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 2, Day 2</i></p> |
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| Diagnostics | (2 long darks (18)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |



Proposal 16419 - Short dark, 2 long darks (19) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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| Visit | Proposal 16419, Short dark, 2 long darks (19), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: Week 2, Day 2</i> | | | | | | | | | | |
| | (Short dark, 2 long darks (19)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | | [1] |
| Orbit Structure | <p>Orbit 1 Server Version: 20200619</p> <p>Exp. 1 Unused Orbital Visibility = 3142</p> <p>Exp. 2 Exp. 3 Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p> | | | | | | | | | | |
| | <p>Detailed description of the Orbit Structure diagram: The diagram shows a horizontal timeline for Orbit 1. The x-axis represents time in seconds, ranging from 0 to 6000 with major ticks every 500 seconds. A green bar represents the total orbital visibility, starting at 0 and ending at approximately 1650 seconds. Within this green bar, three exposure periods are marked: Exp. 1 (a green bar from 0 to ~1650s), Exp. 2 (a black bar from ~300s to ~600s), and Exp. 3 (a black bar from ~1000s to ~1300s). A white bar represents the occultation period, starting at approximately 3100 seconds and ending at approximately 5700 seconds. The text 'Unused Orbital Visibility = 3142' is shown at the top left, and 'Server Version: 20200619' is at the top right.</p> | | | | | | | | | | |

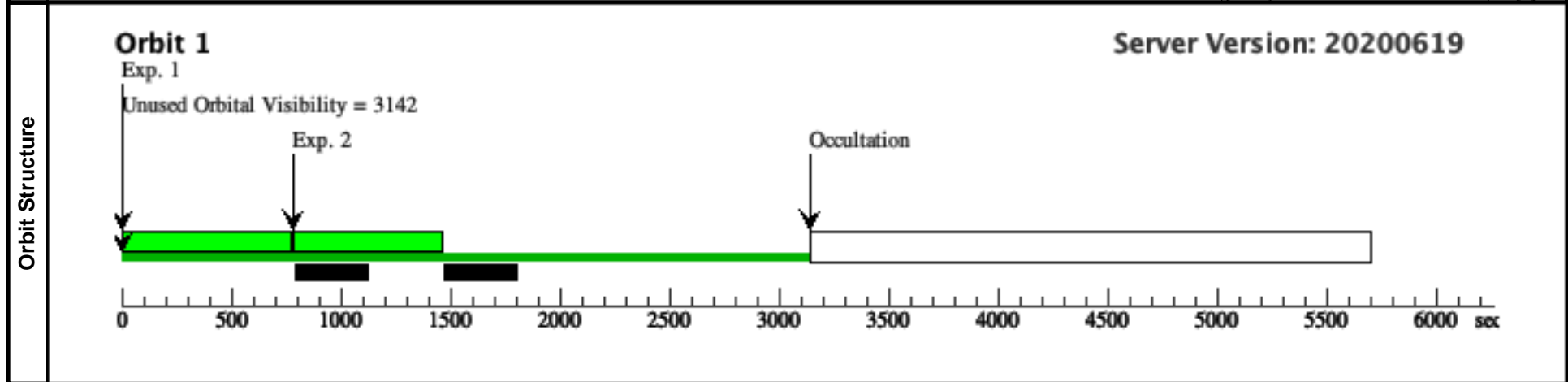
Proposal 16419 - 2 long darks (20) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (20), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 2, Day 2</i></p> |
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| Diagnostics | (2 long darks (20)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |



Proposal 16419 - Short dark, 2 long darks (21) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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|------------------------|--|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (21), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: AFTER 01 BY 10.5 D TO 11.5 D; SEQ 21,22,23,24 WITHIN 1 D <i>Comments: Week 2, Day 3</i> | | | | | | | | | |
| | (Short dark, 2 long darks (21)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| Orbit Structure | <p>Orbit 1 Unused Orbital Visibility = 3142</p> <p>Server Version: 20200619</p> | | | | | | | | | |
| | <p>The diagram shows a horizontal timeline from 0 to 6000 seconds. Three green bars represent exposures: Exp. 1 (0-0.5s), Exp. 2 (~300-350s), and Exp. 3 (~1000-1050s). Black bars below the green bars indicate dark periods. A white bar from ~3100s to ~5700s is labeled 'Occultation'. The x-axis is marked every 500 seconds.</p> | | | | | | | | | |

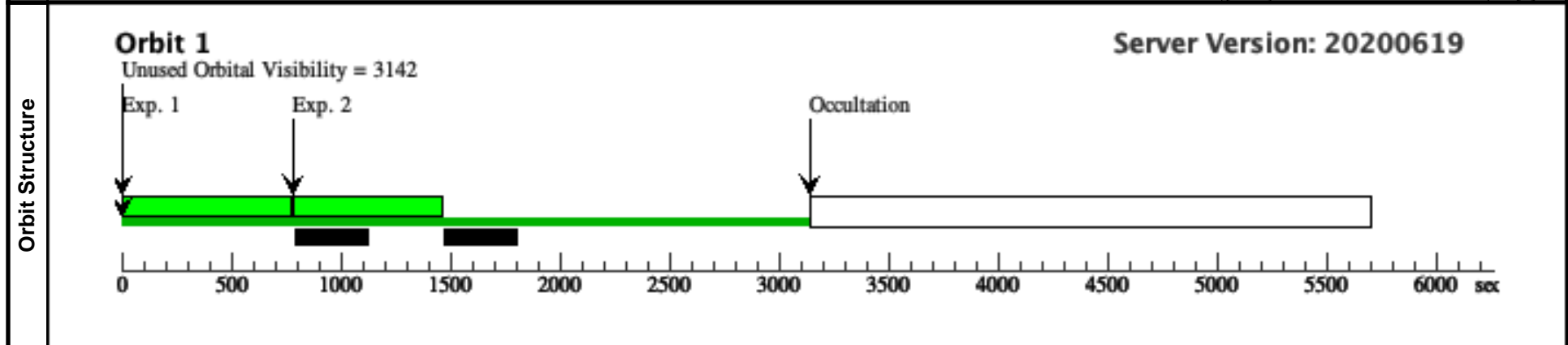
Proposal 16419 - 2 long darks (22) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:32 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (22), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 2, Day 3</i></p> |
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| Diagnostics | (2 long darks (22)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|----------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |



Proposal 16419 - Short dark, 2 long darks (23) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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|------------------------|---|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (23), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: Week 2, Day 3</i> | | | | | | | | | |
| | (Short dark, 2 long darks (23)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| Orbit Structure | <p>Orbit 1 Unused Orbital Visibility = 3142</p> <p>Server Version: 20200619</p> | | | | | | | | | |
| | <p>The diagram illustrates the timing of three exposures (Exp. 1, 2, 3) and an occultation event. The x-axis represents time in seconds, ranging from 0 to 6000. Exp. 1 is a short dark at the beginning. Exp. 2 and Exp. 3 are long darks. The occultation event occurs later in the orbit, during which the instrument is not visible. The total duration of the orbit is approximately 6000 seconds, with 3142 seconds of unused orbital visibility.</p> | | | | | | | | | |

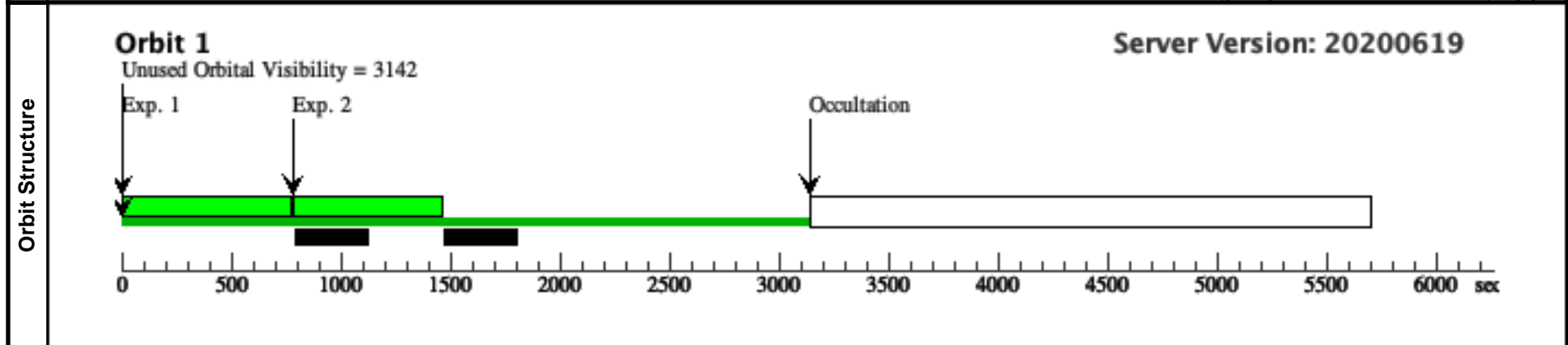
Proposal 16419 - 2 long darks (24) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (24), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 2, Day 3</i></p> |
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| Diagnostics | (2 long darks (24)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|--------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | PAREXP=NONE | | | [==>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | FLASH=25.0 | | | [==>] | [1] |



Proposal 16419 - Short dark, 2 long darks (25) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | Proposal 16419, Short dark, 2 long darks (25), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: AFTER 01 BY 13.5 D TO 14.5 D; SEQ 25,26,27,28 WITHIN 1 D <i>Comments: Week 3, Day 1</i> | | | | | | | | | |
| | (Short dark, 2 long darks (25)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| Orbit Structure | <p>Orbit 1 Unused Orbital Visibility = 3142</p> <p>Server Version: 20200619</p> | | | | | | | | | |
| | <p>Timeline details: The x-axis is labeled 'sec' and ranges from 0 to 6000 with major ticks every 500 units. The green bars represent exposure times: Exp. 1 (0-0.5s), Exp. 2 (~300-350s), and Exp. 3 (~1000-1650s). Black bars below the green bars represent dark periods. A long white bar starting at ~3100s and ending at ~5700s represents the occultation period.</p> | | | | | | | | | |

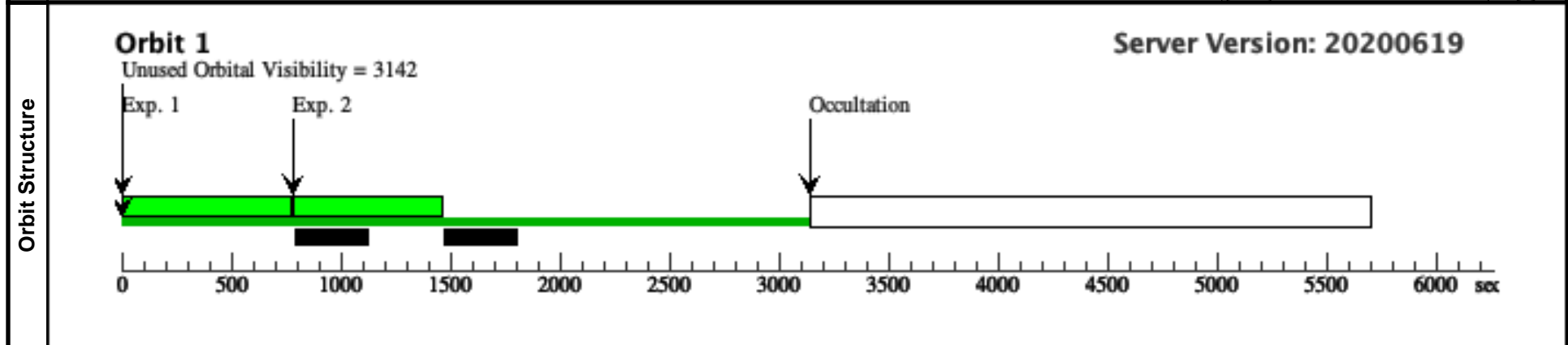
Proposal 16419 - 2 long darks (26) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (26), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 3, Day 1</i></p> |
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| Diagnostics | (2 long darks (26)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|--------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | PAREXP=NONE | | | [==>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | FLASH=25.0 | | | [==>] | [1] |



Proposal 16419 - Short dark, 2 long darks (27) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | Proposal 16419, Short dark, 2 long darks (27), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: Week 3, Day 1</i> | | | | | | | | | |
| | (Short dark, 2 long darks (27)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| Orbit Structure | <p>Orbit 1 Server Version: 20200619</p> <p>Exp. 1 Unused Orbital Visibility = 3142</p> <p>Exp. 2 Exp. 3 Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p> | | | | | | | | | |
| | <p>Detailed description of the Orbit Structure diagram: The diagram shows a horizontal timeline from 0 to 6000 seconds. A green bar representing 'Exp. 1' starts at 0 and ends at approximately 1650 seconds. Below this bar, three black bars represent 'Exp. 2' (from ~300s to ~600s), 'Exp. 3' (from ~1000s to ~1300s), and an unlabeled dark period (from ~1650s to ~2000s). A white bar representing 'Occultation' starts at approximately 3100 seconds and ends at approximately 5700 seconds. The text 'Unused Orbital Visibility = 3142' is shown at the top left of the diagram area.</p> | | | | | | | | | |

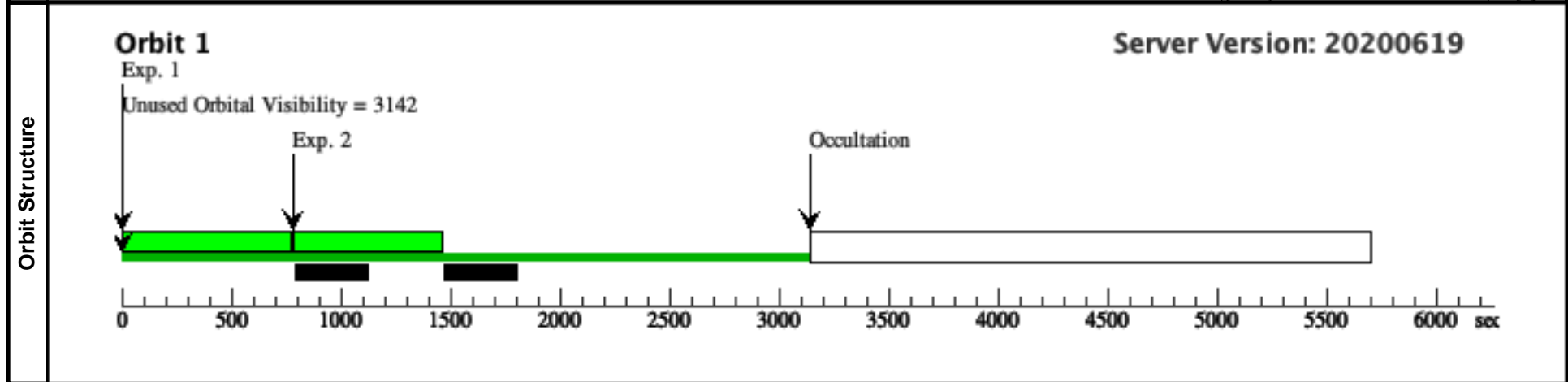
Proposal 16419 - 2 long darks (28) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (28), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 3, Day 1</i></p> |
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| Diagnostics | (2 long darks (28)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |



Proposal 16419 - Short dark, 2 long darks (29) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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|------------------------|--|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (29), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: AFTER 01 BY 15.5 D TO 16.5 D; SEQ 29,30,31,32 WITHIN 1 D <i>Comments: Week 3, Day 2</i> | | | | | | | | | |
| | (Short dark, 2 long darks (29)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [==>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| Orbit Structure | <p>Orbit 1 Server Version: 20200619</p> <p>Exp. 1 Unused Orbital Visibility = 3142</p> <p>Exp. 2 Exp. 3 Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p> | | | | | | | | | |
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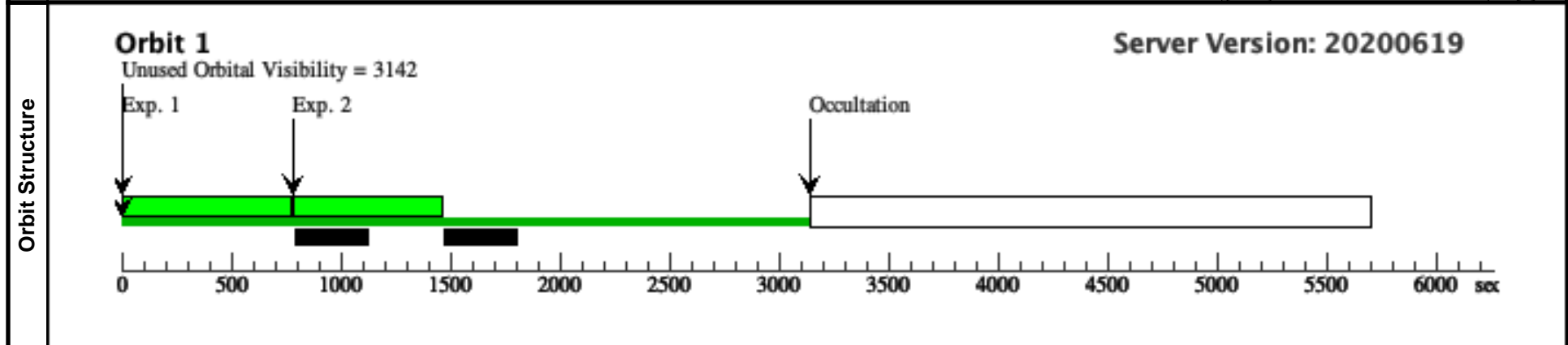
Proposal 16419 - 2 long darks (30) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (30), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 3, Day 2</i></p> |
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| Diagnostics | (2 long darks (30)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|--------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | PAREXP=NONE | | | [==>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | FLASH=25.0 | | | [==>] | [1] |



Proposal 16419 - Short dark, 2 long darks (31) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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|------------------------|---|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (31), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) Comments: Week 3, Day 2 | | | | | | | | | |
| | (Short dark, 2 long darks (31)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| Orbit Structure | <p>Orbit 1 Server Version: 20200619</p> <p>Exp. 1 Unused Orbital Visibility = 3142</p> <p>The diagram shows a timeline from 0 to 6000 seconds. Exp. 1 is a green bar from 0 to ~3142 seconds. Exp. 2 is a black bar from ~3142 to ~3692 seconds. Exp. 3 is a black bar from ~3692 to ~4242 seconds. Occultation is a white bar from ~4242 to ~5792 seconds. The x-axis is labeled 'sec' and has major ticks every 500 units.</p> | | | | | | | | | |
| | <p>Exp. 2 Exp. 3 Occultation</p> | | | | | | | | | |

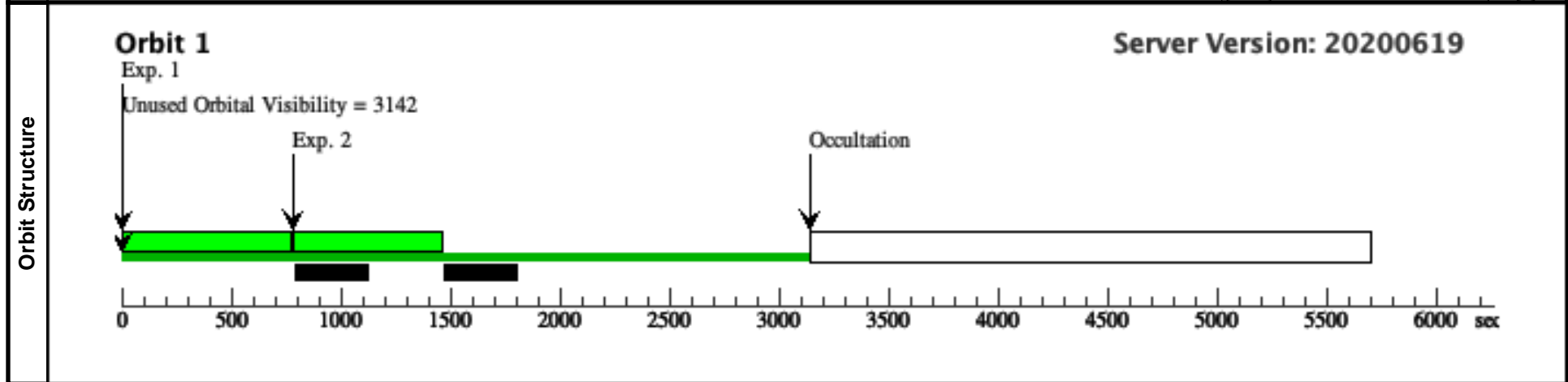
Proposal 16419 - 2 long darks (32) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (32), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 3, Day 2</i></p> |
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| Diagnostics | (2 long darks (32)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|----------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |



Proposal 16419 - Short dark, 2 long darks (33) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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|------------------------|---|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (33), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: AFTER 01 BY 17.5 D TO 18.5 D; SEQ 33,34,35,36 WITHIN 1 D <i>Comments: Week 3, Day 3</i> | | | | | | | | | |
| | (Short dark, 2 long darks (33)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [==>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| Orbit Structure | <p>Orbit 1 Unused Orbital Visibility = 3142</p> <p>The diagram shows a timeline for Orbit 1. The x-axis represents time in seconds from 0 to 6000. A green bar indicates the total exposure duration, which ends at approximately 3142 seconds. Three specific exposures are marked: Exp. 1 (at ~100s), Exp. 2 (at ~400s), and Exp. 3 (at ~1000s). Black bars below the green bar represent occultations. A white bar starting at ~3142s and ending at ~5700s represents the occultation period. The text 'Server Version: 20200619' is displayed in the top right corner of the diagram area.</p> | | | | | | | | | |
| | <p>Server Version: 20200619</p> | | | | | | | | | |

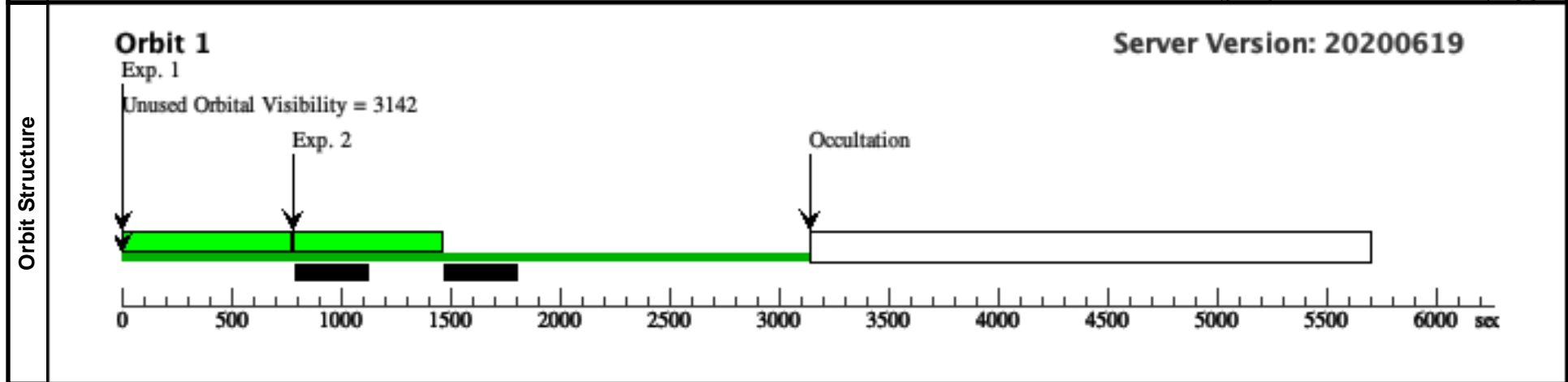
Proposal 16419 - 2 long darks (34) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (34), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 3, Day 3</i></p> |
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| Diagnostics | (2 long darks (34)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|----------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |



Proposal 16419 - Short dark, 2 long darks (35) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

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| Visit | Proposal 16419, Short dark, 2 long darks (35), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) Comments: Week 3, Day 3 | | | | | | | | | |
| | (Short dark, 2 long darks (35)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| Orbit Structure | <p>Orbit 1 Server Version: 20200619</p> <p>Exp. 1 Unused Orbital Visibility = 3142</p> <p>Exp. 2 Exp. 3 Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p> | | | | | | | | | |
| | <p>Exp. 1</p> | | | | | | | | | |

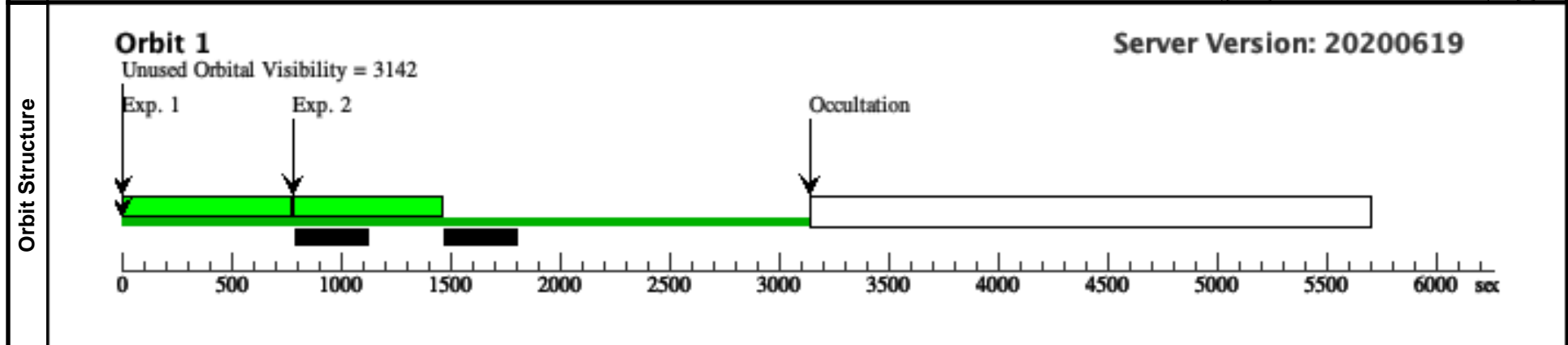
Proposal 16419 - 2 long darks (36) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | Proposal 16419, 2 long darks (36), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: Week 3, Day 3</i> |
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| Diagnostics | (2 long darks (36)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|----------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |



Proposal 16419 - Short dark, 2 long darks (37) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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|------------------------|---|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (37), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: AFTER 01 BY 20.5 D TO 21.5 D; SEQ 37,38,39,40 WITHIN 1 D <i>Comments: Week 4, Day 1</i> | | | | | | | | | |
| | (Short dark, 2 long darks (37)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [==>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| Orbit Structure | <p>Orbit 1 Unused Orbital Visibility = 3142</p> <p>Server Version: 20200619</p> | | | | | | | | | |
| | <p>The diagram illustrates the timing of three exposures (Exp. 1, 2, and 3) relative to the occultation period. The x-axis represents time in seconds, ranging from 0 to 6000. Exp. 1 occurs at the beginning of the orbit (0-0.5s). Exp. 2 occurs at approximately 300-350s. Exp. 3 occurs at approximately 1000-1650s. The occultation period begins at approximately 3100s and ends at approximately 5700s. Black bars below the green exposure bars indicate dark periods. The total unused orbital visibility is 3142 seconds.</p> | | | | | | | | | |

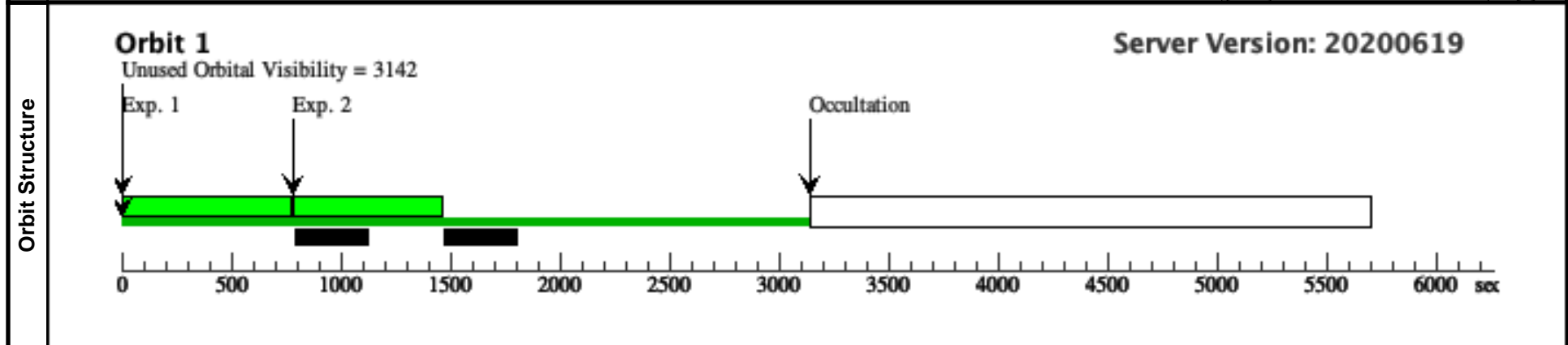
Proposal 16419 - 2 long darks (38) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (38), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 4, Day 1</i></p> |
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| Diagnostics | (2 long darks (38)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|--------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | PAREXP=NONE | | | [==>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | FLASH=25.0 | | | [==>] | [1] |



Proposal 16419 - Short dark, 2 long darks (39) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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|------------------------|---|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (39), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: Week 4, Day 1</i> | | | | | | | | | | |
| | Diagnostics (Short dark, 2 long darks (39)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [==>] | | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | | [1] |
| Orbit Structure | Orbit 1 Unused Orbital Visibility = 3142 Server Version: 20200619 | | | | | | | | | | |
| | <p>The diagram shows a timeline for Orbit 1. The x-axis is labeled 'sec' and ranges from 0 to 6000 with major ticks every 500 seconds. Three exposure periods are shown as green bars: 'Exp. 1' (short dark) from 0 to approximately 100 seconds, 'Exp. 2' (long dark 1) from approximately 100 to 550 seconds, and 'Exp. 3' (long dark 2) from approximately 550 to 1650 seconds. Below these green bars are three black bars representing dark periods. An 'Occultation' period is shown as a white bar starting at approximately 3142 seconds and ending at approximately 5700 seconds. The text 'Unused Orbital Visibility = 3142' is displayed above the timeline.</p> | | | | | | | | | | |

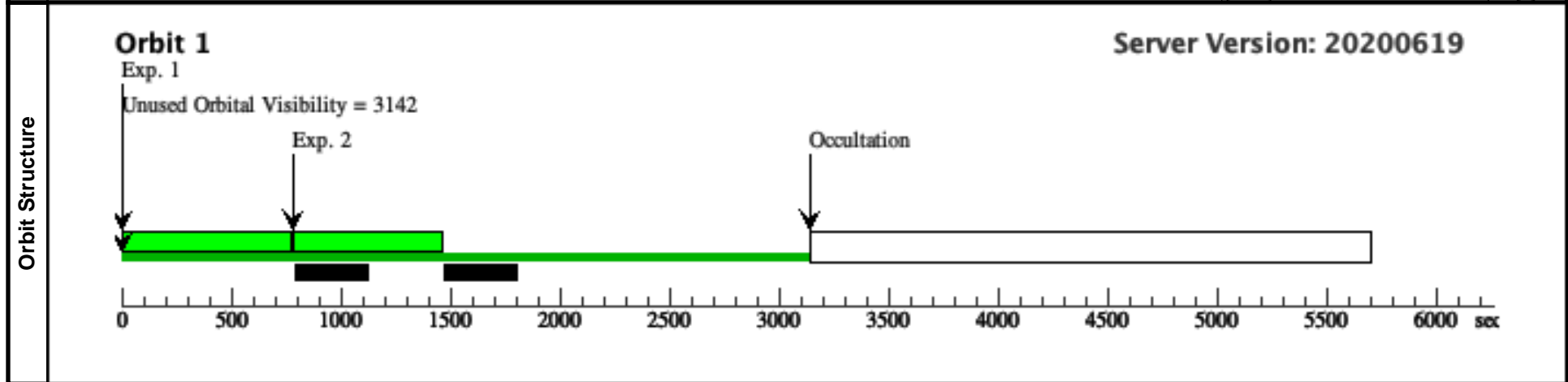
Proposal 16419 - 2 long darks (40) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

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| Visit | <p>Proposal 16419, 2 long darks (40), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 4, Day 1</i></p> |
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| Diagnostics | (2 long darks (40)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |



Proposal 16419 - Short dark, 2 long darks (41) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | Proposal 16419, Short dark, 2 long darks (41), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: AFTER 01 BY 22.5 D TO 23.5 D; SEQ 41,42,43,44 WITHIN 1 D <i>Comments: Week 4, Day 2</i> | | | | | | | | | |
| | Diagnostics (Short dark, 2 long darks (41)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [==>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| Orbit Structure | <div style="display: flex; justify-content: space-between;"> <div> <p>Orbit 1</p> <p>Exp. 1</p> <p>Unused Orbital Visibility = 3142</p> <p>Exp. 2</p> <p>Exp. 3</p> <p>Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p> </div> <div style="text-align: right;"> <p>Server Version: 20200619</p> </div> </div> | | | | | | | | | |

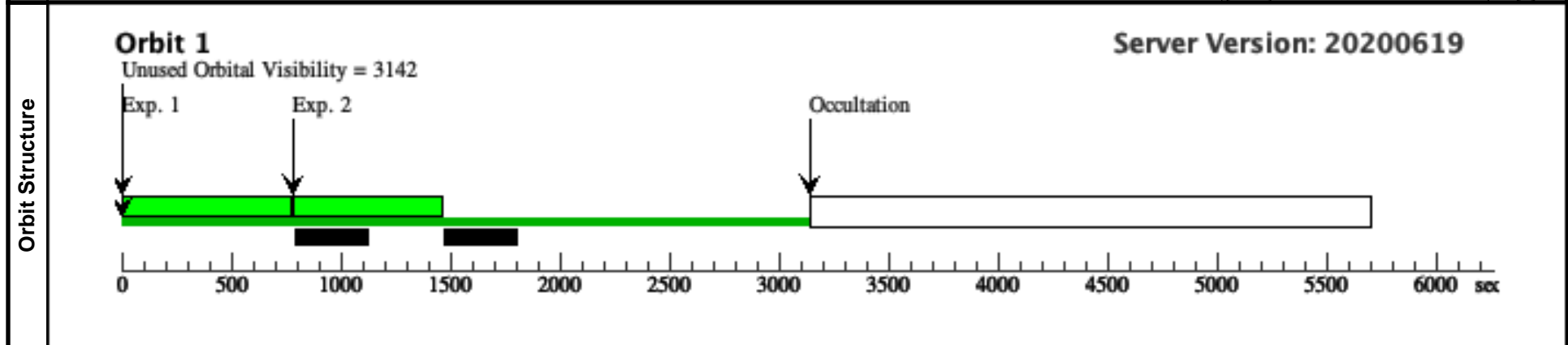
Proposal 16419 - 2 long darks (42) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (42), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 4, Day 2</i></p> |
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| Diagnostics | (2 long darks (42)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|--------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | PAREXP=NONE | | | [==>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | FLASH=25.0 | | | [==>] | [1] |



Proposal 16419 - Short dark, 2 long darks (43) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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|------------------------|--|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (43), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: Week 4, Day 2</i> | | | | | | | | | |
| | Diagnostics (Short dark, 2 long darks (43)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [==>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| Orbit Structure | <div style="display: flex; justify-content: space-between;"> <div> <p>Orbit 1 Unused Orbital Visibility = 3142</p> </div> <div> <p>Server Version: 20200619</p> </div> </div> | | | | | | | | | |

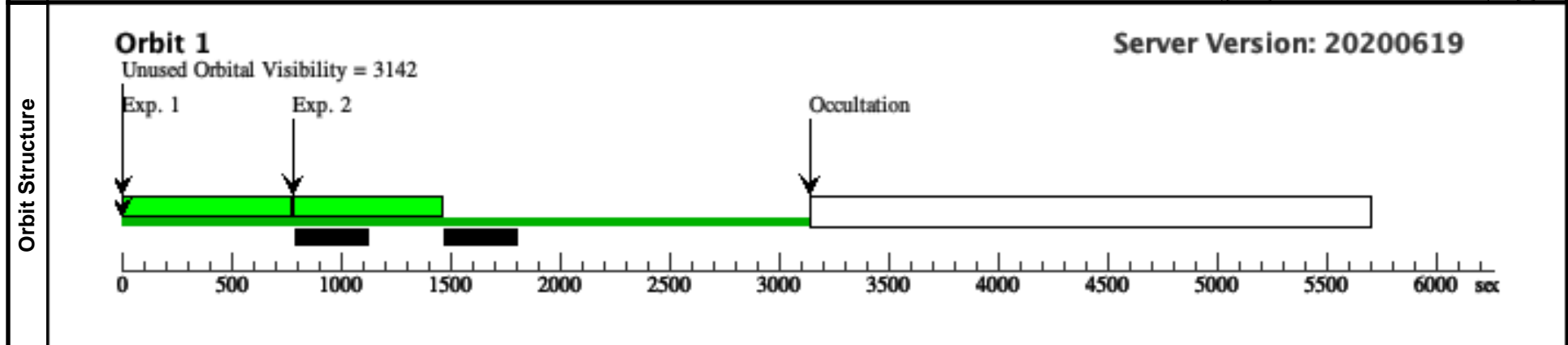
Proposal 16419 - 2 long darks (44) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (44), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 4, Day 2</i></p> |
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| Diagnostics | (2 long darks (44)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|--------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | PAREXP=NONE | | | [=>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | FLASH=25.0 | | | [=>] | [1] |



Proposal 16419 - Short dark, 2 long darks (45) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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|------------------------|--|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (45), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: AFTER 01 BY 24.5 D TO 25.5 D; SEQ 45,46,47,48 WITHIN 1 D <i>Comments: Week 4, Day 3</i> | | | | | | | | | |
| | (Short dark, 2 long darks (45)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [==>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [==>] | [1] |
| Orbit Structure | <p>Orbit 1 Server Version: 20200619</p> <p>Exp. 1 Unused Orbital Visibility = 3142</p> <p>The diagram shows a timeline for Orbit 1. The x-axis represents time in seconds from 0 to 6000. Exp. 1 (short dark) occurs at the beginning. Exp. 2 (long dark 1) and Exp. 3 (long dark 2) are shown as long horizontal bars. An occultation period is indicated by a white bar starting around 3142 seconds. The text 'Unused Orbital Visibility = 3142' is shown at the top left.</p> | | | | | | | | | |
| | <p>Exp. 2 Exp. 3 Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec</p> | | | | | | | | | |

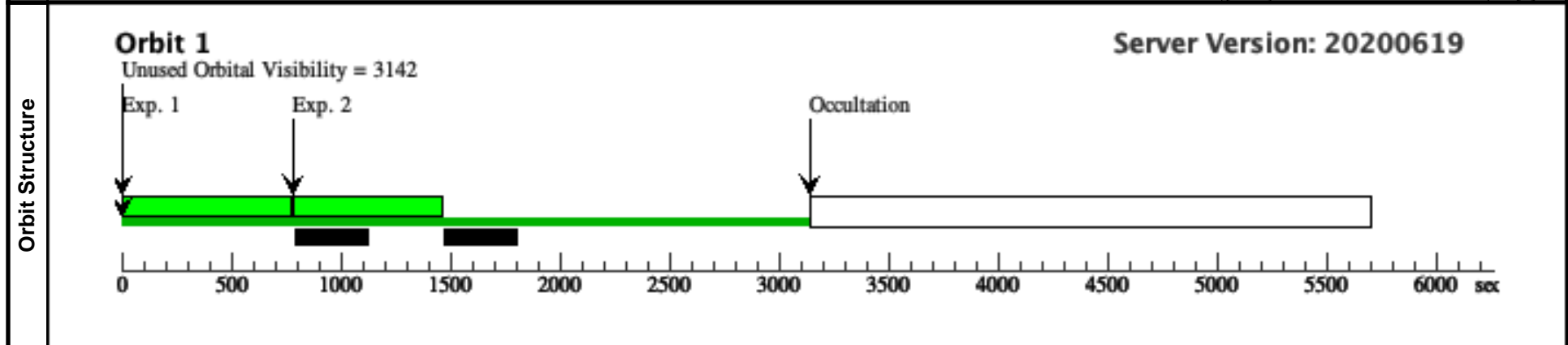
Proposal 16419 - 2 long darks (46) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (46), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 4, Day 3</i></p> |
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| Diagnostics | (2 long darks (46)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
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| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|--------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | PAREXP=NONE | | | [==>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; | | | 550.5 Secs (550.5 Secs) | |
| | | | | | FLASH=25.0 | | | [==>] | [1] |



Proposal 16419 - Short dark, 2 long darks (47) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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|------------------------|---|--------------|---------------|-----------------------------|----------------------|----------------------------|----------------------|---------------|--|--------------|
| Visit | Proposal 16419, Short dark, 2 long darks (47), implementation Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: (none) <i>Comments: Week 4, Day 3</i> | | | | | | | | | |
| | Diagnostics (Short dark, 2 long darks (47)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | short dark | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 0.5 Secs (0.5 Secs) [=>] | [1] |
| | 2 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| | 3 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| Orbit Structure | <p>Orbit 1 Unused Orbital Visibility = 3142</p> <p>Server Version: 20200619</p> | | | | | | | | | |
| | <p>The diagram shows a horizontal timeline from 0 to 6000 seconds. Three exposure periods are highlighted in green: Exp. 1 (0-0.5s), Exp. 2 (~300-350s), and Exp. 3 (~1000-1050s). Black bars below the timeline indicate occultation periods. A long white bar from ~3100s to ~5700s is labeled 'Occultation'. The x-axis is marked every 500 seconds.</p> | | | | | | | | | |

Proposal 16419 - 2 long darks (48) - ACS/WFC Darks with Reduced Exposure Time and Post-Flash

Mon Aug 24 20:00:33 GMT 2020

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| Visit | <p>Proposal 16419, 2 long darks (48), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/WFC</p> <p>Special Requirements: (none)</p> <p><i>Comments: Week 4, Day 3</i></p> |
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| | |
|--------------------|---|
| Diagnostics | (2 long darks (48)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU |
|--------------------|---|

| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|---|-------------|--------|----------------------|---------------|----------------------------|---------------|--------|---------------------------------|-------|
| 1 | long dark 1 | DARK | ACS/WFC, ACCUM, WFC | DEF | FLASH=25.0; PAREXP=NONE | | | 550.5 Secs (550.5 Secs) [=>] | [1] |
| 2 | long dark 2 | DARK | ACS/WFC, ACCUM, WFC | DEF | PAREXP=NONE; FLASH=25.0 | | | 550.5 Secs (550.5 Secs) [=>] | [1] |

