



15885 - Skewered: A Census of the Circumgalactic Medium of NGC 4565 from 13 QSO Sightlines Within its Virial Radius

Cycle: 27, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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

| <i>Visit</i> | <i>Targets used in Visit</i> | <i>Configurations used in Visit</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 01 | (1) SDSSJ123415.58+253552.2 | COS/FUV COS/NUV | 3 | 26-Nov-2019 14:00:13.0 | yes |
| 02 | (1) SDSSJ123415.58+253552.2 | COS/FUV COS/NUV | 3 | 26-Nov-2019 14:00:15.0 | yes |
| 03 | (2) SDSSJ123923.28+253900.9 | COS/FUV COS/NUV | 3 | 26-Nov-2019 14:00:16.0 | yes |
| 04 | (2) SDSSJ123923.28+253900.9 | COS/FUV COS/NUV | 2 | 26-Nov-2019 14:00:17.0 | yes |

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| 05 | (2) SDSSJ123923.28+253900.9 | COS/FUV COS/NUV | 2 | 26-Nov-2019 14:00:18.0 | yes |
| 06 | (3) IC3599 | COS/FUV COS/NUV | 1 | 26-Nov-2019 14:00:19.0 | yes |
| 07 | (4) SDSSJ123657.20+265701.2 | COS/FUV COS/NUV | 2 | 26-Nov-2019 14:00:20.0 | yes |
| 08 | (5) SDSSJ124135.99+255250.9 | COS/FUV COS/NUV | 3 | 26-Nov-2019 14:00:21.0 | yes |
| 09 | (6) SDSSJ123210.30+264434.6 | COS/FUV COS/NUV | 3 | 26-Nov-2019 14:00:22.0 | yes |
| 10 | (6) SDSSJ123210.30+264434.6 | COS/FUV COS/NUV | 2 | 26-Nov-2019 14:00:23.0 | yes |

24 Total Orbits Used

ABSTRACT

We propose using COS to observe 6 new QSO sightlines within a virial radius R_v of 0.5 - 1.0 of NGC 4565 in order to probe its circumgalactic medium (CGM) at multiple positions. NGC 4565 (the Needle Galaxy) is a highly inclined ($i=86$ degrees) spiral galaxy, and its orientation makes it an ideal target for looking for kinematic and metallicity signatures from outflows along its minor axis, or inflows into the disk along its major axis. NGC4565 is currently part of a COS program to probe the inner CGM below 0.5 R_v with 7 QSO lines-of-sight (GO-15196), and this proposal is designed to extend the map of HI and metals into the outer CGM beyond 0.5 R_v . Our data will enable us to measure how HI and metal line column densities change with galactocentric radius. They will also allow us to investigate how the properties of the absorbing gas, including its column density, multi-component structure, and bulk velocity, change with position relative to the major and minor axes of the galaxy. For example, two of the new sightlines lie close (within ± 20 degrees) to the major axis of the galaxy's disk, and absorption along their sightlines will test whether the decline in velocity relative to the systemic velocity seen at small distances from the center of NGC 4565 continues into the outer halo.

OBSERVING DESCRIPTION

Proposal 15885 (STScI Edit Number: 0, Created: Tuesday, November 26, 2019 at 2:00:23 PM Eastern Standard Time) - Overview

These are G130M observations of mostly faint QSOs. The most important absorption lines from the intervening galaxy is Lyman-alpha and SiIII 1206. As the foreground galaxy is at low redshift, these lines remain near geocoronal Lyman-alpha. We therefore need to use the remaining G130M-1291 grating setting. We utilize the 2 remaining FP-POS positions to mitigate the effects of large-scale defects. There will be a gap left between 1274-1294A which can no longer be filled using a different grating setting, but few absorption lines from the intervening galaxies are expected at these wavelengths.

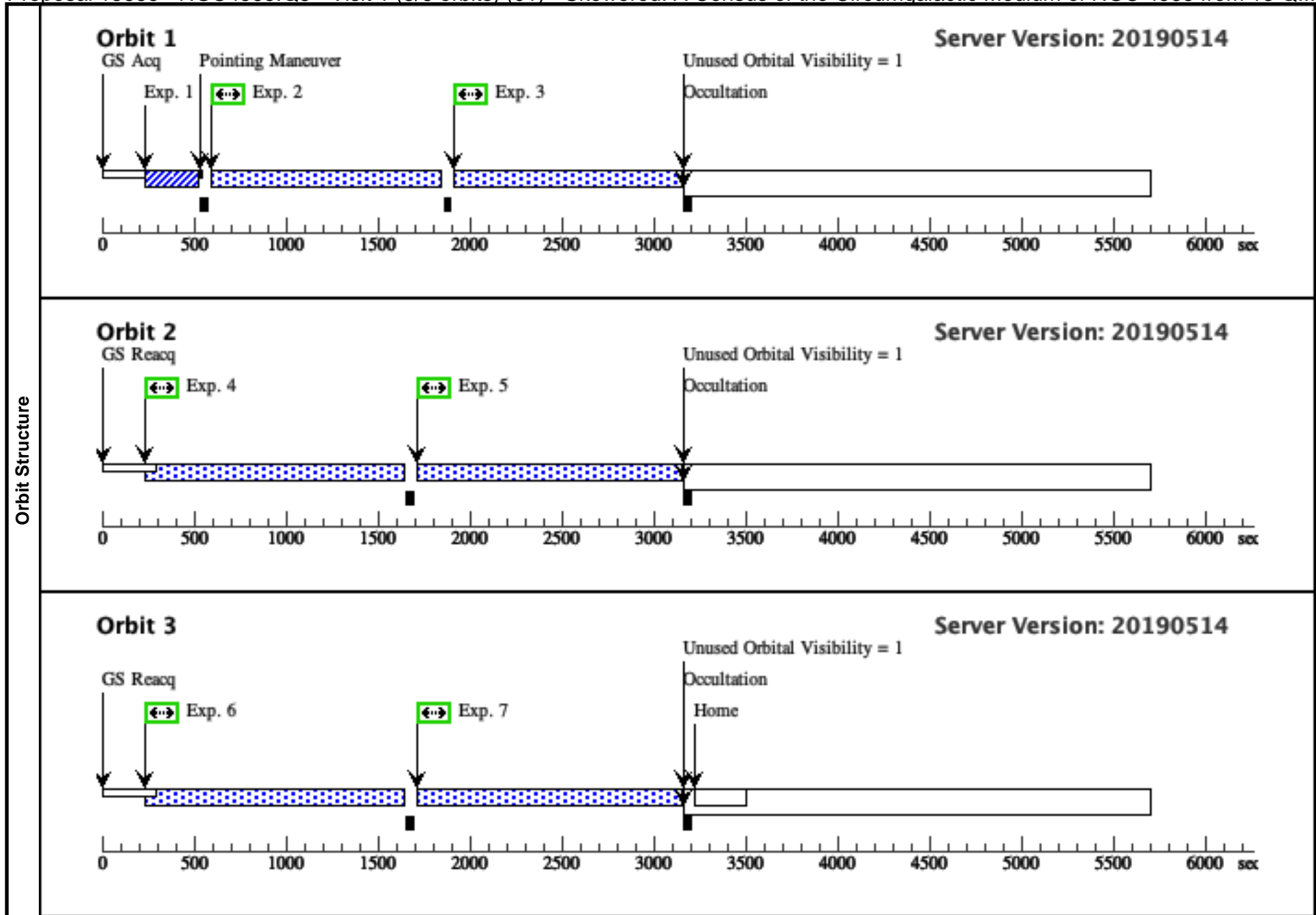
Target ACQs: exposure times set by assuming half the cataloged FUV GALEX flux (to account for variability), and assuming a flat spectrum.

Observations are not affected by RGM, except for access to the sightlines because of a reduced Field of Regard. Since the main science goal is to sample the halo of NGC4565 using as many background QSO sightlines as possible, it remains important to observe as many of the probes as possible, despite their concentration in one area of the sky.

Proposal 15885 - NGC4565.Q8 - Visit 1 (3/6 orbits) (01) - Skewed: A Census of the Circumgalactic Medium of NGC 4565 from 13 Q...

Tue Nov 26 19:00:24 GMT 2019

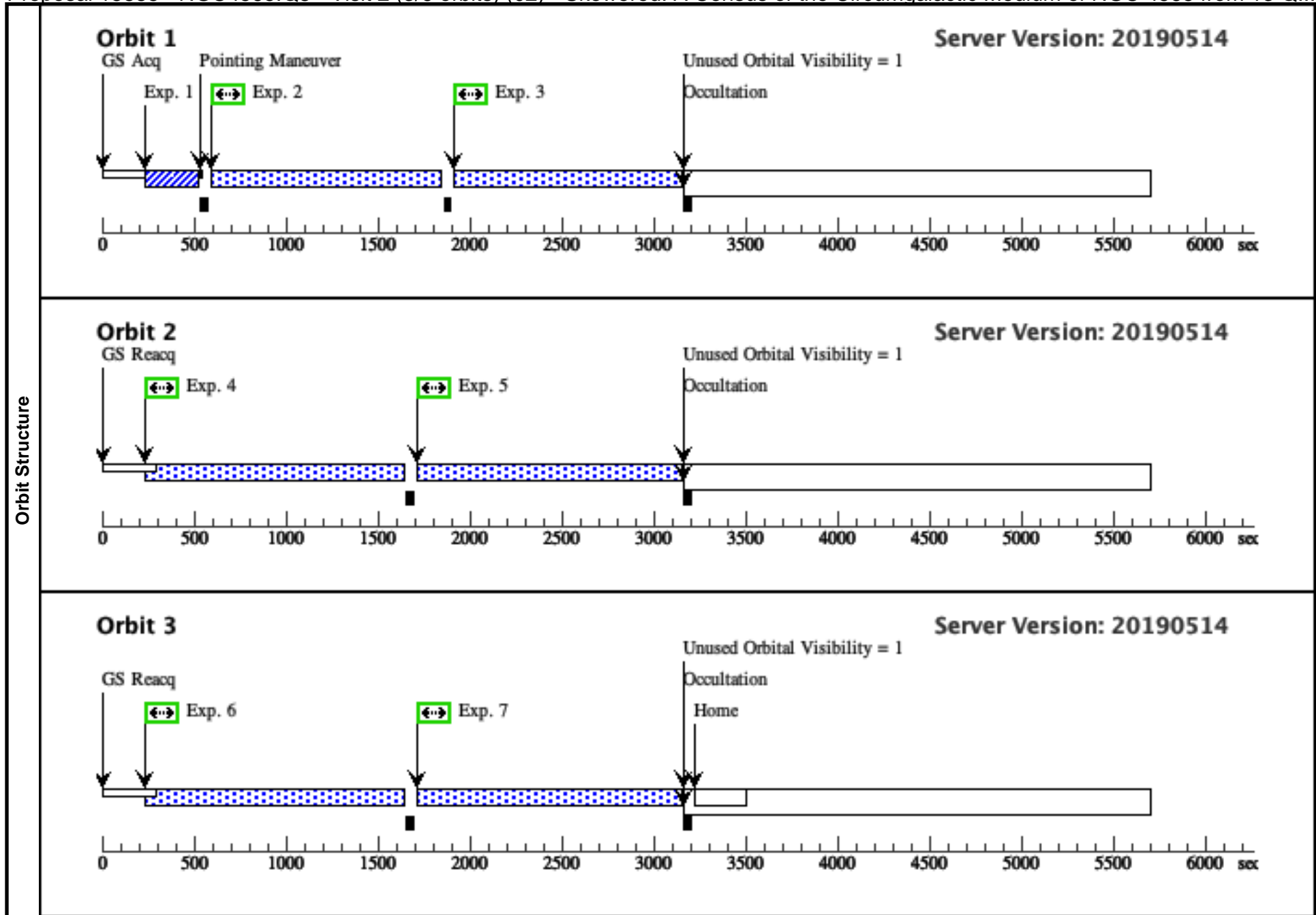
| Visit | Proposal 15885, NGC4565.Q8 - Visit 1 (3/6 orbits) (01), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: First of 2 visits, 3 orbits of 6</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Fixed Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>SDSSJ123415.58+253552.2</td> <td>RA: 12 34 15.5800 (188.5649167d) Dec: +25 35 52.20 (25.59783d) Equinox: J2000</td> <td>Redshift: 0.998</td> <td>V=18.9+/-0.1 GALEX FUV = 34 micro-Jy</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (1) | SDSSJ123415.58+253552.2 | RA: 12 34 15.5800 (188.5649167d) Dec: +25 35 52.20 (25.59783d) Equinox: J2000 | Redshift: 0.998 | V=18.9+/-0.1 GALEX FUV = 34 micro-Jy | Reference Frame: ICRS | <i>Comments:</i> Category=GALAXY Description=[QSO] Extended=NO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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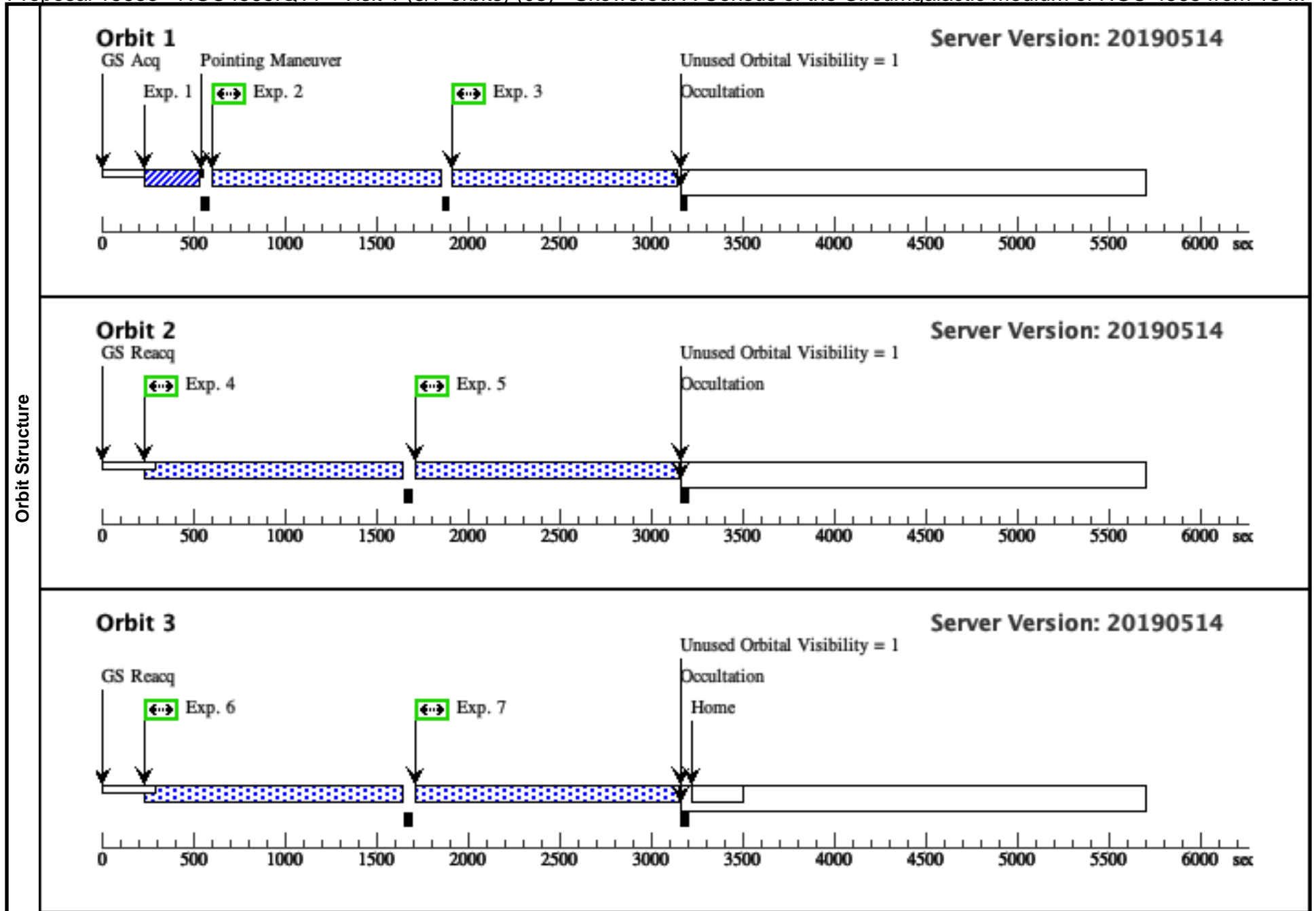
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|--|--|---|-------------------------|---|--|---------------|-----------------|--|-------------------------|---|-----------------|---|-----------------------|---|-------|---|---------------------------------|---------------------------------|-------------------------|---------|--|--|--|----------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|
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| # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | V2- ACQ (COS.ta.136 7108) | (1) SDSSJ123415.58 +253552.2 | COS/NUV, ACQ/IMAGE, PSA | MIRRORA | | | | 36 Secs (36 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments: Exposure time for SNR=40, assuming 50% of GALEX FUV</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | V2 - Orbit 1 - FP-POS=3 (COS.sp.136 7115) | (1) SDSSJ123415.58 +253552.2 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=51 62 | | | 1000 Secs (1086 Secs) [==>1086.0 Secs] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | V2 - Orbit 1 - FP-POS=4 (COS.sp.136 7115) | (1) SDSSJ123415.58 +253552.2 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=51 21 | | | 1100 Secs (1186 Secs) [==>1186.0 Secs] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | V2 - Orbit 2 - FP-POS=3 (COS.sp.136 7116) | (1) SDSSJ123415.58 +253552.2 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=51 21 | | | 1200 Secs (1287 Secs) [==>1287.0 Secs] | [2] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | V2 - Orbit 2 - FP-POS=4 (COS.sp.136 7115) | (1) SDSSJ123415.58 +253552.2 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=51 21 | | | 1300 Secs (1387 Secs) [==>1387.0 Secs] | [2] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | V2 - Orbit 3 - FP-POS=3 (COS.sp.136 7115) | (1) SDSSJ123415.58 +253552.2 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=51 21 | | | 1200 Secs (1287 Secs) [==>1287.0 Secs] | [3] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | V2 - Orbit 3 - FP-POS=4 (COS.sp.136 7115) | (1) SDSSJ123415.58 +253552.2 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=51 21 | | | 1300 Secs (1387 Secs) [==>1387.0 Secs] | [3] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Proposal 15885 - NGC4565.Q11 - Visit 1 (3/7 orbits) (03) - Skewed: A Census of the Circumgalactic Medium of NGC 4565 from 13 ...

Tue Nov 26 19:00:24 GMT 2019

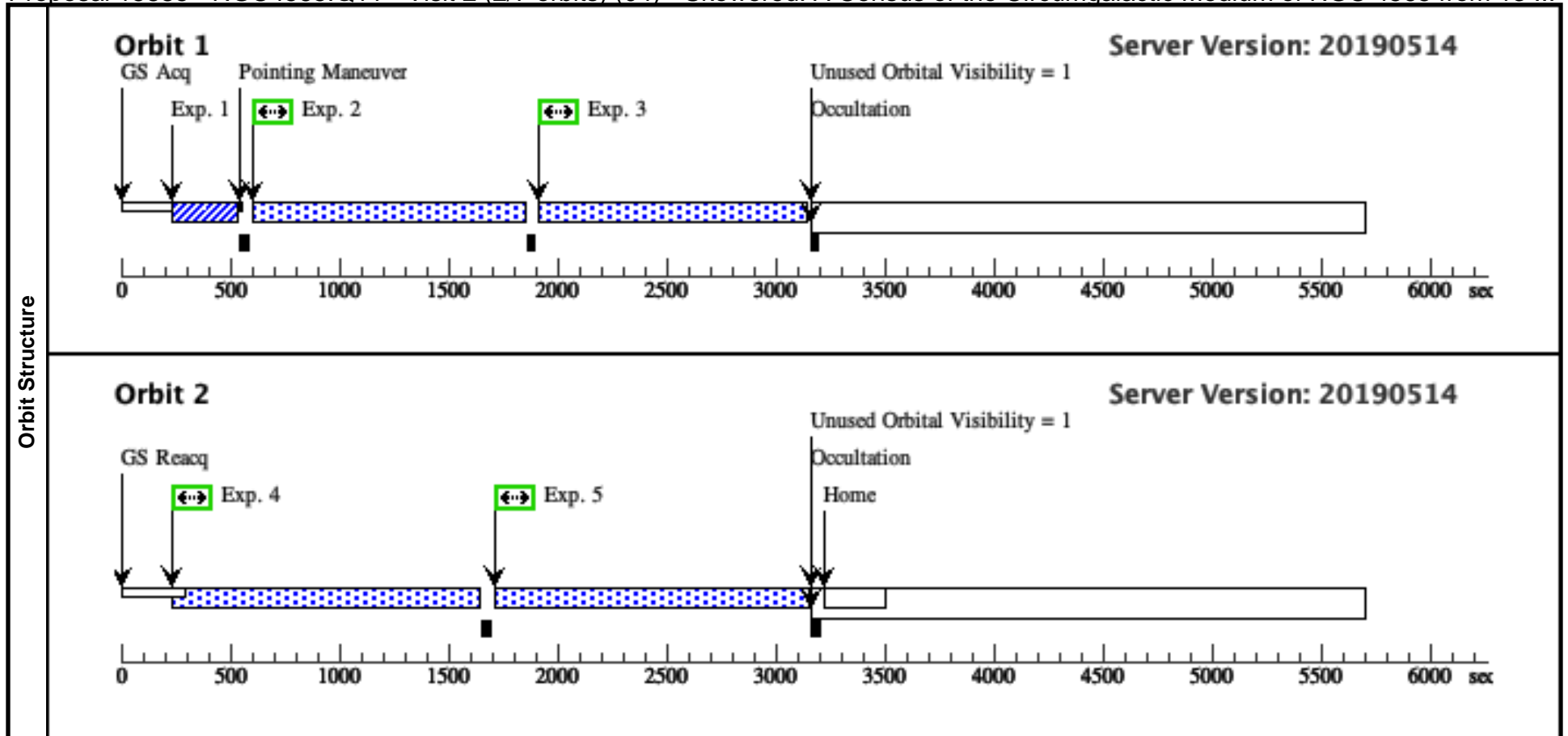
| | | | | | | |
|----------------------|---|---|--|-----------------------|--|--|
| Visit | Proposal 15885, NGC4565.Q11 - Visit 1 (3/7 orbits) (03), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: First visit of 3 visits, 3 orbits of 7</i> | | | | | |
| | Diagnosics (NGC4565.Q11 - Visit 1 (3/7 orbits) (03)) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (NGC4565.Q11 - Visit 1 (3/7 orbits) (03)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (NGC4565.Q11 - Visit 1 (3/7 orbits) (03)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS | | | | | |
| Fixed Targets | # Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous | (2) SDSSJ123923.28+253900.9 0.9 RA: 12 39 23.2800 (189.8470000d) Dec: +25 39 0.90 (25.65025d) Equinox: J2000 | Redshift: 1.0 V=18.9+/-0.1 GALEX FUV = 29 micro-Jy | Reference Frame: ICRS | | |
| | <i>Comments: Category=GALAXY Description=[QSO] Extended=NO</i> | | | | | |
| Exposures | # Label (ETC Run) Target Config,Mode,Aperture Spectral Els. Opt. Params. Special Reqs. Groups Exp. Time (Total)/[Actual Dur.] Orbit | 1 V1 - ACQ (2) SDSSJ123923.28 COS/NUV, ACQ/IMAGE, PSA MIRRORA (COS.ta.136 +253900.9 7109) | 41 Secs (41 Secs) [==>] | [1] | | |
| | <i>Comments: Exposure time for SNR=40, assuming 50% of GALEX FUV</i> | | | | | |
| | 2 V1 - Orbit 1 (2) SDSSJ123923.28 COS/FUV, TIME-TAG, PSA G130M - FP-POS=3 +253900.9 1291 A FP-POS=3; (COS.sp.136 7120) SEGMENT=BOTH; BUFFER-TIME=51 49 | 1000 Secs (1081 Secs) [==>1081.0 Secs] | [1] | | | |
| | 3 V1 - Orbit 1 (2) SDSSJ123923.28 COS/FUV, TIME-TAG, PSA G130M - FP-POS=4 +253900.9 1291 A FP-POS=4; (COS.sp.136 7120) SEGMENT=BOTH; BUFFER-TIME=54 19 | 1100 Secs (1181 Secs) [==>1181.0 Secs] | [1] | | | |
| | 4 V1 - Orbit 2 (2) SDSSJ123923.28 COS/FUV, TIME-TAG, PSA G130M - FP-POS=3 +253900.9 1291 A FP-POS=3; (COS.sp.136 7120) SEGMENT=BOTH; BUFFER-TIME=51 49 | 1200 Secs (1287 Secs) [==>1287.0 Secs] | [2] | | | |
| | 5 V1 - Orbit 2 (2) SDSSJ123923.28 COS/FUV, TIME-TAG, PSA G130M - FP-POS=4 +253900.9 1291 A FP-POS=4; (COS.sp.136 7120) SEGMENT=BOTH; BUFFER-TIME=51 49 | 1300 Secs (1387 Secs) [==>1387.0 Secs] | [2] | | | |
| | 6 V1 - Orbit 3 (2) SDSSJ123923.28 COS/FUV, TIME-TAG, PSA G130M - FP-POS=3 +253900.9 1291 A FP-POS=3; (COS.sp.136 7120) SEGMENT=BOTH; BUFFER-TIME=51 49 | 1200 Secs (1287 Secs) [==>1287.0 Secs] | [3] | | | |
| | 7 V1 - Orbit 3 (2) SDSSJ123923.28 COS/FUV, TIME-TAG, PSA G130M - FP-POS=4 +253900.9 1291 A FP-POS=4; (COS.sp.136 7120) SEGMENT=BOTH; BUFFER-TIME=51 49 | 1300 Secs (1387 Secs) [==>1387.0 Secs] | [3] | | | |



Proposal 15885 - NGC4565.Q11 - Visit 2 (2/7 orbits) (04) - Skewed: A Census of the Circumgalactic Medium of NGC 4565 from 13 ...

Tue Nov 26 19:00:24 GMT 2019

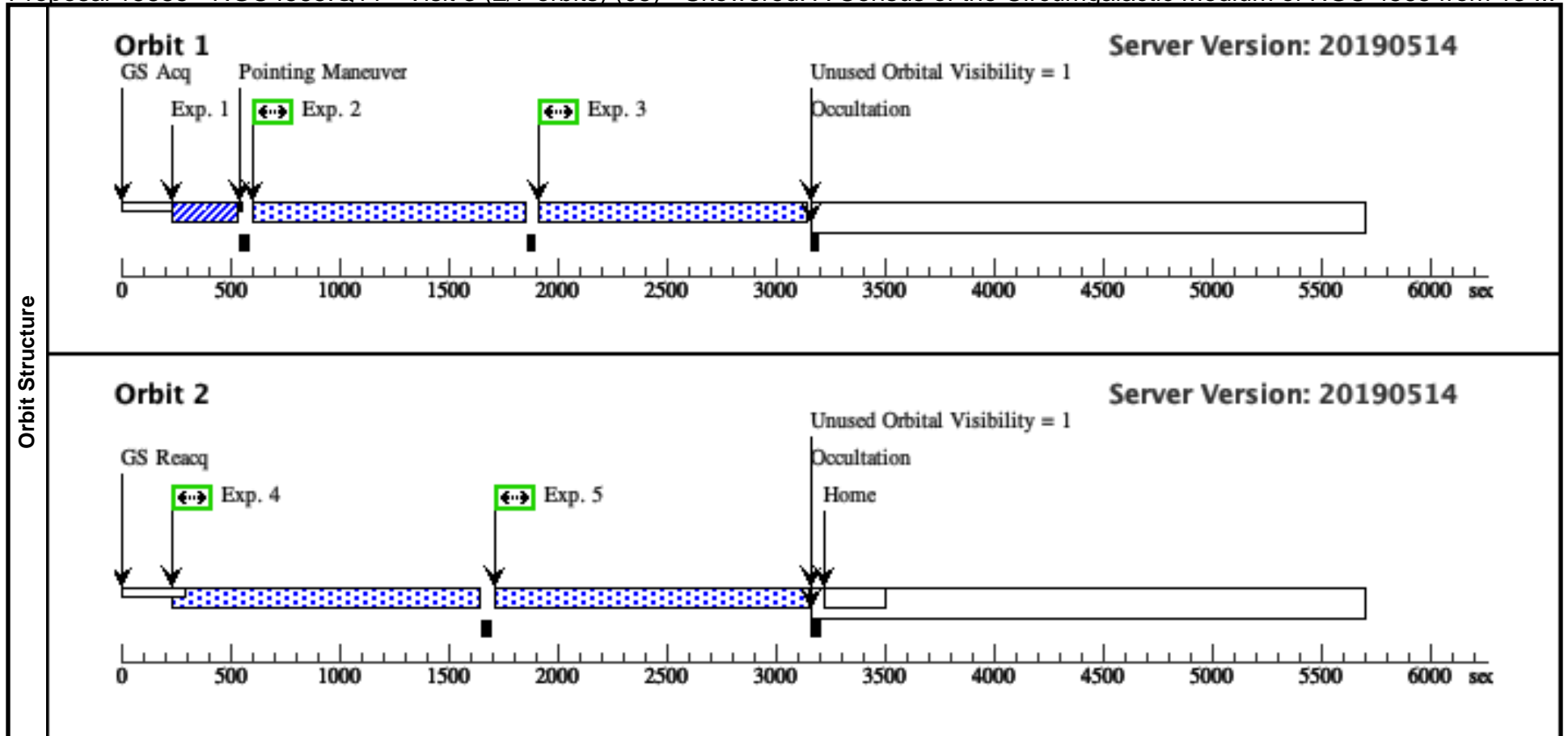
| Visit | Proposal 15885, NGC4565.Q11 - Visit 2 (2/7 orbits) (04), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: Second visit of 3 visits, 2 orbits of 7</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|-------------------------|---|--|---------------|-----------------|--|-------------------------|--|---------------|---|-----------------------|---|-------|---|----------------------------------|---------------------------------|-------------------------|---------|--|--|--|----------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|
| | Diagnosics (NGC4565.Q11 - Visit 2 (2/7 orbits) (04)) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (NGC4565.Q11 - Visit 2 (2/7 orbits) (04)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (2) | SDSSJ123923.28+253900.9 | RA: 12 39 23.2800 (189.8470000d) Dec: +25 39 0.90 (25.65025d) Equinox: J2000 | Redshift: 1.0 | V=18.9+/-0.1 GALEX FUV = 29 micro-Jy | Reference Frame: ICRS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2 | V2 - Orbit 1 - FP-POS=3 (COS.sp.136 7120) | (2) SDSSJ123923.28 +253900.9 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=51 49 | | | 1000 Secs (1081 Secs) [==>1081.0 Secs] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Proposal 15885 - NGC4565.Q11 - Visit 3 (2/7 orbits) (05) - Skewered: A Census of the Circumgalactic Medium of NGC 4565 from 13 ...

Tue Nov 26 19:00:24 GMT 2019

| Visit | Proposal 15885, NGC4565.Q11 - Visit 3 (2/7 orbits) (05), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: Second visit of 3 visits, 2 orbits of 7</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|-------------------------|---|--|---------------|-----------------|--|-------------------------|--|---------------|---|-----------------------|---|-------|---|----------------------------------|---------------------------------|-------------------------|---------|--|--|--|----------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|
| | Diagnosics (NGC4565.Q11 - Visit 3 (2/7 orbits) (05)) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (NGC4565.Q11 - Visit 3 (2/7 orbits) (05)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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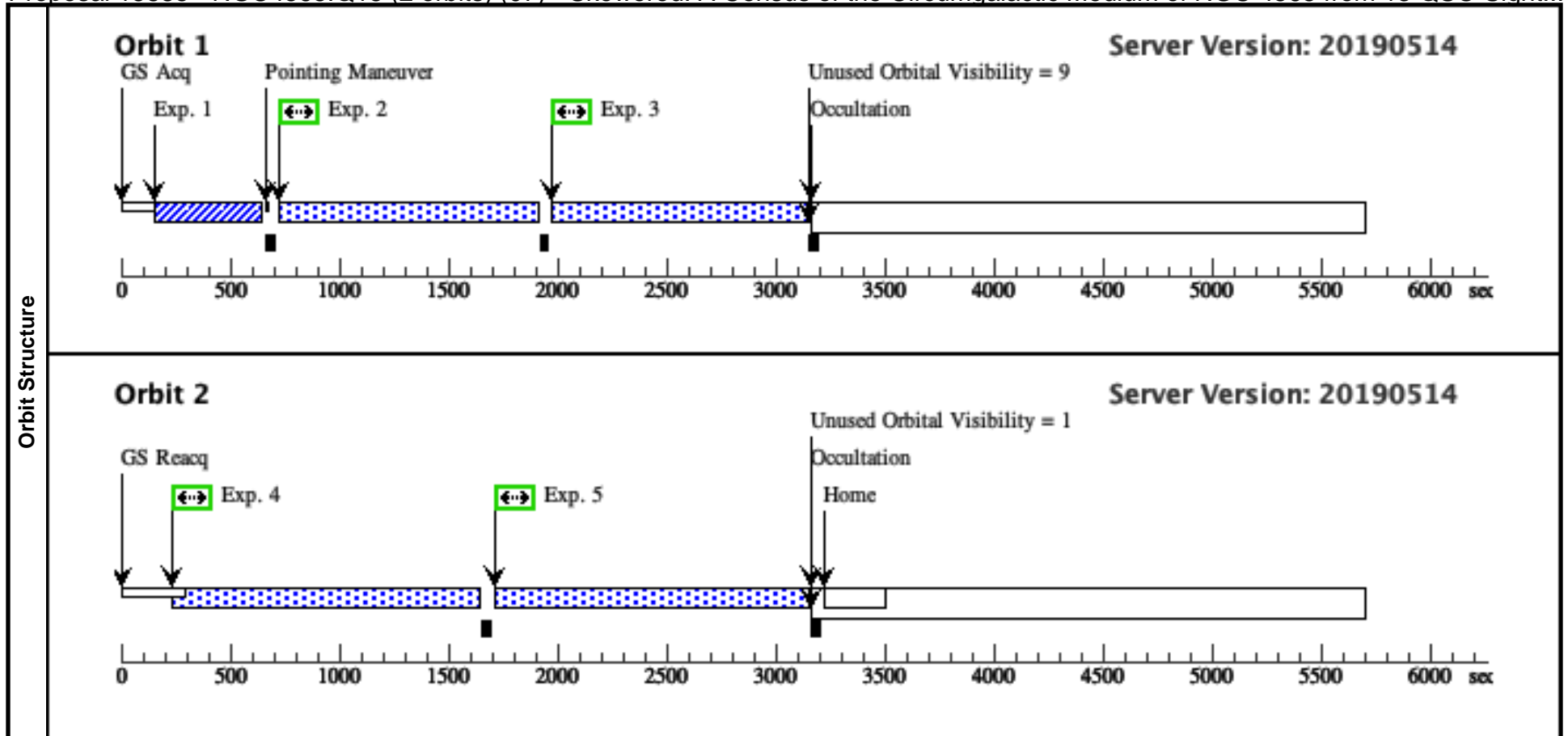


| Visit | Proposal 15885, NGC4565.Q13 (single orbit) (06), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: 1 orbit</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|------------------------|--|--|---------------|---------------|--|---------------------------------|--------|---------------|-----------------|--------|---|-----------------|--|-----------------------|--------|---------------------------------|-------|---|-----------------------|------------|-------------------------|---------|--|--|--|----------------------------|-----|---|--|--|--|--|--|--|--|--|--|---|----------------------------|------------|------------------------|-----------------|--|--|--|--|-----|---|----------------------------|------------|------------------------|-----------------|--|--|--|--|-----|
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| (3) | IC3599 | RA: 12 37 41.1800 (189.4215833d) Dec: +26 42 27.40 (26.70761d) Equinox: J2000 | Redshift: 0.021 | V=15.3+/-0.1 GALEX FUV = 269 micro-Jy | Reference Frame: ICRS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments:</i> Category=GALAXY Description=[SEYFERT] Extended=YES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exposures | <table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ (COS.ta.136 7138)</td> <td>(3) IC3599</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>18 Secs (18 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> <i>Comments: Exposure time for SNR=30, switching from MIRROR-A to MIRROR-B to avoid a "exceeds bright limit" warning.</i> </td> </tr> <tr> <td>2</td> <td>FP-POS=3 (COS.sp.136 7121)</td> <td>(3) IC3599</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=39 07</td> <td></td> <td></td> <td>1000 Secs (1100 Secs) [==>1100.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>FP-POS=4 (COS.sp.136 7120)</td> <td>(3) IC3599</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=39 07</td> <td></td> <td></td> <td>1100 Secs (1200 Secs) [==>1200.0 Secs]</td> <td>[1]</td> </tr> </tbody> </table> | | | | | | | | | | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | 1 | ACQ (COS.ta.136 7138) | (3) IC3599 | COS/NUV, ACQ/IMAGE, PSA | MIRRORB | | | | 18 Secs (18 Secs) [==>] | [1] | <i>Comments: Exposure time for SNR=30, switching from MIRROR-A to MIRROR-B to avoid a "exceeds bright limit" warning.</i> | | | | | | | | | | 2 | FP-POS=3 (COS.sp.136 7121) | (3) IC3599 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=39 07 | | | 1000 Secs (1100 Secs) [==>1100.0 Secs] | [1] | 3 | FP-POS=4 (COS.sp.136 7120) | (3) IC3599 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=39 07 | | | 1100 Secs (1200 Secs) [==>1200.0 Secs] | [1] |
| | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | ACQ (COS.ta.136 7138) | (3) IC3599 | COS/NUV, ACQ/IMAGE, PSA | MIRRORB | | | | 18 Secs (18 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <i>Comments: Exposure time for SNR=30, switching from MIRROR-A to MIRROR-B to avoid a "exceeds bright limit" warning.</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | FP-POS=3 (COS.sp.136 7121) | (3) IC3599 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=39 07 | | | 1000 Secs (1100 Secs) [==>1100.0 Secs] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | FP-POS=4 (COS.sp.136 7120) | (3) IC3599 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=39 07 | | | 1100 Secs (1200 Secs) [==>1200.0 Secs] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Orbit Structure | <p>Orbit 1 Server Version: 20190514</p> <p>Unused Orbital Visibility = 0</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <p>Timeline labels: GS Acq, Exp. 1, Pointing Maneuver, Exp. 2, Exp. 3, Home, Occultation.</p> <p>X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 sec</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 15885 - NGC4565.Q15 (2 orbits) (07) - Skewed: A Census of the Circumgalactic Medium of NGC 4565 from 13 QSO Sight...

Tue Nov 26 19:00:24 GMT 2019

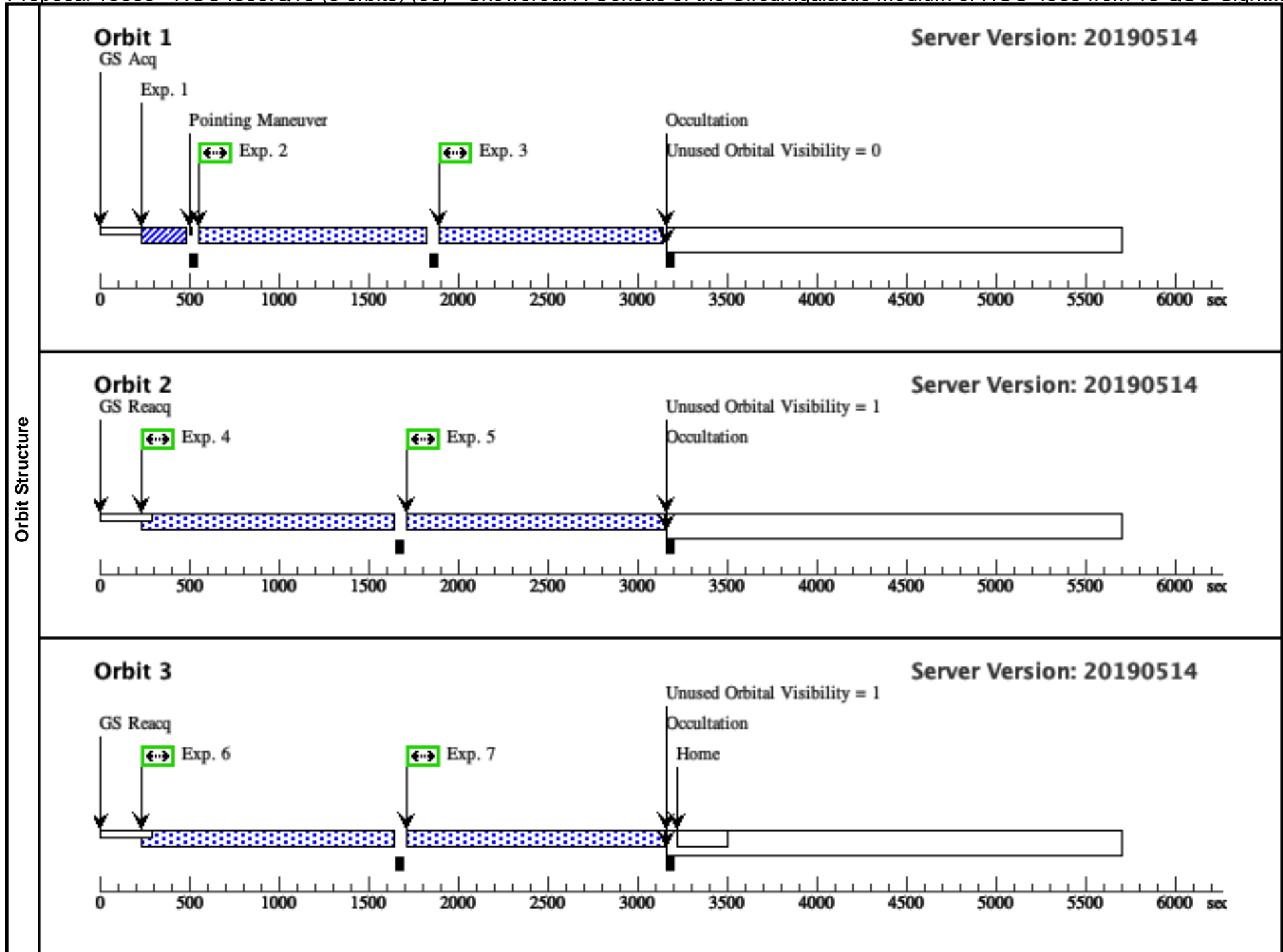
| | | | | | | | | | | |
|---|---|--|--|---------------------------------|--|--|----------------------|--|--|--------------|
| Visit | Proposal 15885, NGC4565.Q15 (2 orbits) (07), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: 2 orbits</i> | | | | | | | | | |
| | (NGC4565.Q15 (2 orbits) (07)) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (NGC4565.Q15 (2 orbits) (07)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS | | | | | | | | | |
| Diagnosics | | | | | | | | | | |
| | | | | | | | | | | |
| Fixed Targets | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | |
| | (4) | SDSSJ123657.20+265701.2 | RA: 12 36 57.2000 (189.2383333d) Dec: +26 57 1.20 (26.95033d) Equinox: J2000 | Redshift: 0.227 | V=17.6+/-0.1 GALEX FUV = 118 micro-Jy | Reference Frame: ICRS | | | | |
| <i>Comments:</i> Category=GALAXY Description=[QSO] Extended=NO | | | | | | | | | | |
| Exposures | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
| | 1 | ACQ (COS.ta.136 7111) | (4) SDSSJ123657.20 +265701.2 | COS/NUV, ACQ/IMAGE, PSA | MIRRORB | | | | 100 Secs (100 Secs) [==>] | [1] |
| | <i>Comments: Exposure time for SNR=40, assuming 100% of GALEX FUV.</i> Nov 2019: change from MIRROR-A to MIRROR-B at request of COS contact scientist | | | | | | | | | |
| | 2 | Orbit 1 - FP- POS=3 (COS.sp.136 7122) | (4) SDSSJ123657.20 +265701.2 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=46 06 | | | 1000 Secs (1018 Secs) [==>1018.0 Secs] | [1] |
| | 3 | Orbit 1 - FP- POS=4 (COS.sp.136 7122) | (4) SDSSJ123657.20 +265701.2 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=46 06 | | | 1100 Secs (1118 Secs) [==>1118.0 Secs] | [1] |
| | 4 | Orbit 2 - FP- POS=3 (COS.sp.136 7122) | (4) SDSSJ123657.20 +265701.2 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=46 06 | | | 1000 Secs (1287 Secs) [==>1287.0 Secs] | [2] |
| 5 | Orbit 2 - FP- POS=4 (COS.sp.136 7122) | (4) SDSSJ123657.20 +265701.2 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=46 06 | | | 1100 Secs (1387 Secs) [==>1387.0 Secs] | [2] | |



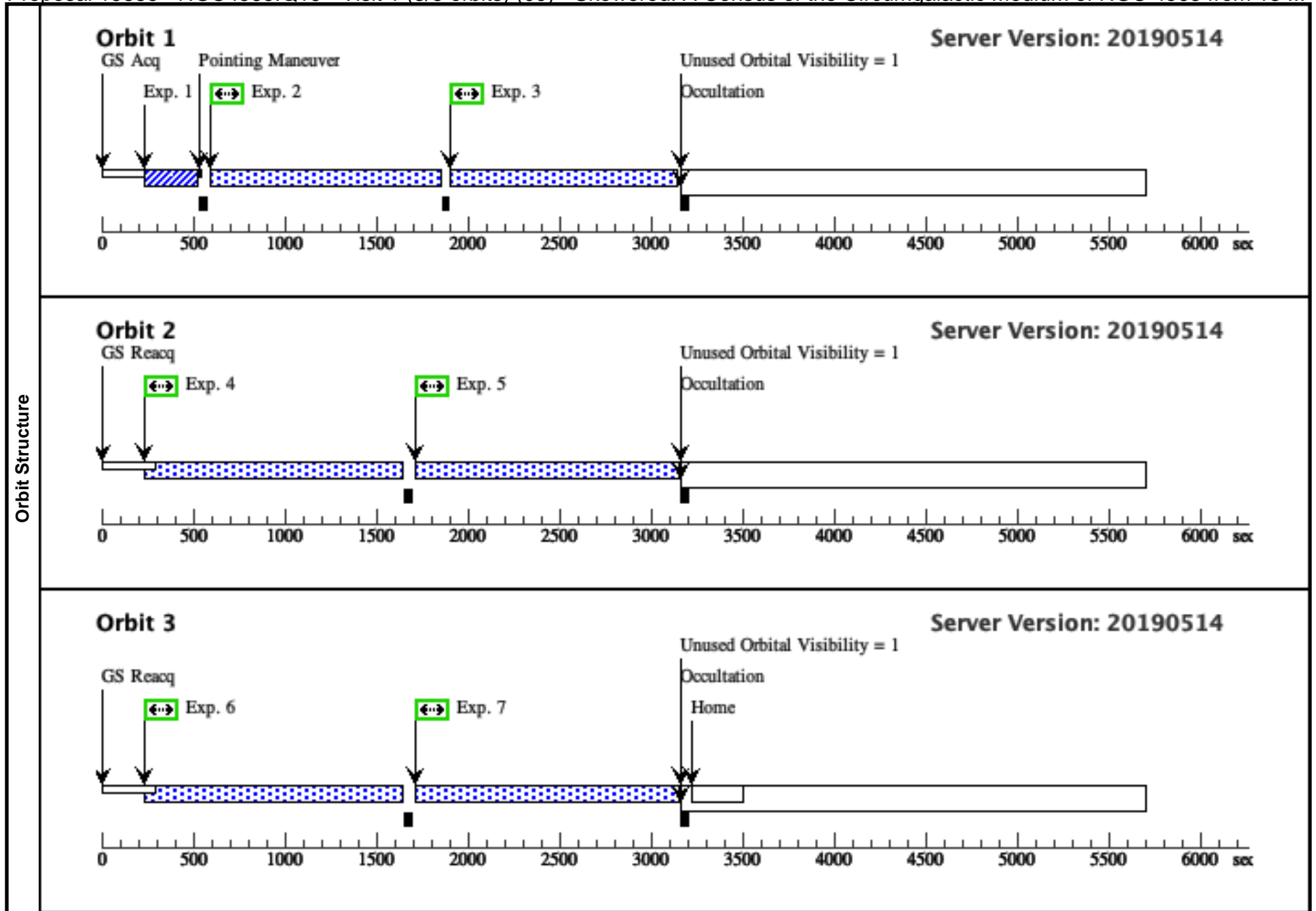
Proposal 15885 - NGC4565.Q18 (3 orbits) (08) - Skewed: A Census of the Circumgalactic Medium of NGC 4565 from 13 QSO Sight...

Tue Nov 26 19:00:24 GMT 2019

| Visit | Proposal 15885, NGC4565.Q18 (3 orbits) (08), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: 3 orbits</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|-------------------------|---|--|---------------|---------------|--|-------------------------|---|-----------------|---|-----------------------------|---|-------------------------|---------|--|--|--|----------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|---|--|---------------------------------|------------------------|-----------------|--|--|--|--|-----|
| | (NGC4565.Q18 (3 orbits) (08)) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (NGC4565.Q18 (3 orbits) (08)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (NGC4565.Q18 (3 orbits) (08)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(5)</td> <td>SDSSJ124135.99+255250.9</td> <td>RA: 12 41 35.9900 (190.3999583d) Dec: +25 52 50.90 (25.88081d) Equinox: J2000</td> <td>Redshift: 0.670</td> <td>V=18.2+/-0.1 GALEX FUV = 72 micro-Jy</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (5) | SDSSJ124135.99+255250.9 | RA: 12 41 35.9900 (190.3999583d) Dec: +25 52 50.90 (25.88081d) Equinox: J2000 | Redshift: 0.670 | V=18.2+/-0.1 GALEX FUV = 72 micro-Jy | Reference Frame: ICRS | <i>Comments:</i> Category=GALAXY Description=[QSO] Extended=NO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (5) | SDSSJ124135.99+255250.9 | RA: 12 41 35.9900 (190.3999583d) Dec: +25 52 50.90 (25.88081d) Equinox: J2000 | Redshift: 0.670 | V=18.2+/-0.1 GALEX FUV = 72 micro-Jy | Reference Frame: ICRS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | ACQ (COS.ta.136 7112) | (5) SDSSJ124135.99 +255250.9 | COS/NUV, ACQ/IMAGE, PSA | MIRRORA | | | | 17 Secs (17 Secs) [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>Comments: Exposure time for SNR=40, assuming 50% of GALEX FUV</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Orbit 1 - FP- POS=3 (COS.sp.136 7123) | (5) SDSSJ124135.99 +255250.9 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=48 72 | | | 1000 Secs (1101 Secs) [==>1101.0 Secs] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Orbit 1 - FP- POS=4 (COS.sp.136 7123) | (5) SDSSJ124135.99 +255250.9 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=48 72 | | | 1100 Secs (1201 Secs) [==>1201.0 Secs] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Orbit 2 - FP- POS=3 (COS.sp.136 7123) | (5) SDSSJ124135.99 +255250.9 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=48 72 | | | 1000 Secs (1287 Secs) [==>1287.0 Secs] | [2] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Orbit 2 - FP- POS=4 (COS.sp.136 7123) | (5) SDSSJ124135.99 +255250.9 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=48 72 | | | 1100 Secs (1387 Secs) [==>1387.0 Secs] | [2] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Orbit 3 - FP- POS=3 (COS.sp.136 7123) | (5) SDSSJ124135.99 +255250.9 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=48 72 | | | 1000 Secs (1287 Secs) [==>1287.0 Secs] | [3] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Orbit 4 - FP- POS=4 (COS.sp.136 7123) | (5) SDSSJ124135.99 +255250.9 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=48 72 | | | 1100 Secs (1387 Secs) [==>1387.0 Secs] | [3] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Orbit Structure



Proposal 15885 - NGC4565.Q19 - Visit 2 (2/5 orbits) (10) - Skewed: A Census of the Circumgalactic Medium of NGC 4565 from 13 ...

Tue Nov 26 19:00:24 GMT 2019

| Visit | Proposal 15885, NGC4565.Q19 - Visit 2 (2/5 orbits) (10), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: Second visit of two visits, 2 orbits of 5</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|------------------------------|---|--|--|---------------|--|--|-------|---|-----------------|--------------------|--------------------------|---------------|---------------|---------------|-------------------------|---|-----------------|---|-------------------------------|------------------------------|-------------------------|---------|--|--|--|----------------------------|-----|--|--|--|--|--|--|--|--|--|--|---|---|------------------------------|------------------------|-----------------|--|--|--|--|-----|---|---|------------------------------|------------------------|-----------------|--|--|--|--|-----|---|---|------------------------------|------------------------|-----------------|--|--|--|--|-----|---|---|------------------------------|------------------------|-----------------|--|--|--|--|-----|
| | Diagnosics (NGC4565.Q19 - Visit 2 (2/5 orbits) (10)) Warning (Form): If the target position is not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (NGC4565.Q19 - Visit 2 (2/5 orbits) (10)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fixed Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>SDSSJ123210.30+264434.6</td> <td>RA: 12 32 10.3000 (188.0429167d) Dec: +26 44 34.60 (26.74294d) Equinox: J2000</td> <td>Redshift: 0.986</td> <td>V=19.2+/-0.1 GALEX FUV = 36 micro-Jy</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> | | | | | | | | | | # | Name | Target Coordinates | Targ. Coord. Corrections | Fluxes | Miscellaneous | (6) | SDSSJ123210.30+264434.6 | RA: 12 32 10.3000 (188.0429167d) Dec: +26 44 34.60 (26.74294d) Equinox: J2000 | Redshift: 0.986 | V=19.2+/-0.1 GALEX FUV = 36 micro-Jy | Reference Frame: ICRS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <i>Comments: Category=GALAXY Description=[QSO] Extended=NO</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exposures | <table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>V2 - ACQ (COS.ta.136 7113)</td> <td>(6) SDSSJ123210.30 +264434.6</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORA</td> <td></td> <td></td> <td></td> <td>34 Secs (34 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: Exposure time for SNR=40, assuming 50% of GALEX FUV</i></td> </tr> <tr> <td>2</td> <td>V2 - Orbit 1 - FP-POS=3 (COS.sp.136 7124)</td> <td>(6) SDSSJ123210.30 +264434.6</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=51 01</td> <td></td> <td></td> <td>1000 Secs (1088 Secs) [==>1088.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>V2 - Orbit 1 - FP-POS=4 (COS.sp.136 7124)</td> <td>(6) SDSSJ123210.30 +264434.6</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=51 01</td> <td></td> <td></td> <td>1100 Secs (1188 Secs) [==>1188.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>V2 - Orbit 2 - FP-POS=3 (COS.sp.136 7124)</td> <td>(6) SDSSJ123210.30 +264434.6</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=51 01</td> <td></td> <td></td> <td>1000 Secs (1287 Secs) [==>1287.0 Secs]</td> <td>[2]</td> </tr> <tr> <td>5</td> <td>V2 - Orbit 2 - FP-POS=4 (COS.sp.136 7124)</td> <td>(6) SDSSJ123210.30 +264434.6</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=51 01</td> <td></td> <td></td> <td>1100 Secs (1387 Secs) [==>1387.0 Secs]</td> <td>[2]</td> </tr> </tbody> </table> | | | | | | | | | | # | Label (ETC Run) | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit | 1 | V2 - ACQ (COS.ta.136 7113) | (6) SDSSJ123210.30 +264434.6 | COS/NUV, ACQ/IMAGE, PSA | MIRRORA | | | | 34 Secs (34 Secs) [==>] | [1] | <i>Comments: Exposure time for SNR=40, assuming 50% of GALEX FUV</i> | | | | | | | | | | 2 | V2 - Orbit 1 - FP-POS=3 (COS.sp.136 7124) | (6) SDSSJ123210.30 +264434.6 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=51 01 | | | 1000 Secs (1088 Secs) [==>1088.0 Secs] | [1] | 3 | V2 - Orbit 1 - FP-POS=4 (COS.sp.136 7124) | (6) SDSSJ123210.30 +264434.6 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=51 01 | | | 1100 Secs (1188 Secs) [==>1188.0 Secs] | [1] | 4 | V2 - Orbit 2 - FP-POS=3 (COS.sp.136 7124) | (6) SDSSJ123210.30 +264434.6 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=51 01 | | | 1000 Secs (1287 Secs) [==>1287.0 Secs] | [2] | 5 | V2 - Orbit 2 - FP-POS=4 (COS.sp.136 7124) | (6) SDSSJ123210.30 +264434.6 | COS/FUV, TIME-TAG, PSA | G130M 1291 A | FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=51 01 | | | 1100 Secs (1387 Secs) [==>1387.0 Secs] | [2] |
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