



15372 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

Cycle: 25, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> | <i>E-Mail</i> |
|---|------------------------------|-----------------------------------|
| Dr. Dennis Bodewits (PI) (Contact) | Auburn University | dennis@auburn.edu |
| Dr. Damian Christian (CoI) | The University Corporation | damian.christian@csun.edu |
| Dr. Dimitra Koutroumpa (CoI) (ESA Member) | LATMOS | dimitra.koutroumpa@latmos.ipsl.fr |
| Dr. Kip Kuntz (CoI) | The Johns Hopkins University | kuntz@pha.jhu.edu |
| Dr. Jian-Yang Li (CoI) (Contact) | Planetary Science Institute | jyli@psi.edu |
| Tony L. Farnham (CoI) | University of Maryland | farnham@astro.umd.edu |
| Dr. Michael S Kelley (CoI) | University of Maryland | msk@astro.umd.edu |
| Dr. Silvia Protopapa (CoI) | Southwest Research Institute | sprotopapa@boulder.swri.edu |
| Dr. Jenny Carter (CoI) (ESA Member) | University of Leicester | jac48@leicester.ac.uk |

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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 81 | (1) 46P-WIRTANEN-V11-14 | S/C WFC3/UVIS | 1 | 11-Dec-2018 08:00:18.0 | yes |
| 82 | (1) 46P-WIRTANEN-V11-14 | S/C WFC3/UVIS | 1 | 11-Dec-2018 08:00:20.0 | yes |
| 83 | (1) 46P-WIRTANEN-V11-14 | S/C WFC3/UVIS | 1 | 11-Dec-2018 08:00:21.0 | yes |
| 84 | (1) 46P-WIRTANEN-V11-14 | S/C WFC3/UVIS | 1 | 11-Dec-2018 08:00:23.0 | 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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| 91 | (2) 46P-WIRTANEN-V21-24 | S/C WFC3/UVIS | 1 | 11-Dec-2018 08:00:24.0 | yes |
| 92 | (2) 46P-WIRTANEN-V21-24 | S/C WFC3/UVIS | 1 | 11-Dec-2018 08:00:25.0 | yes |
| 93 | (2) 46P-WIRTANEN-V21-24 | S/C WFC3/UVIS | 1 | 11-Dec-2018 08:00:27.0 | yes |
| 94 | (2) 46P-WIRTANEN-V21-24 | S/C WFC3/UVIS | 1 | 11-Dec-2018 08:00:28.0 | yes |
| 95 | (3) 46P-WIRTANEN-V95-88 | S/C WFC3/UVIS | 1 | 11-Dec-2018 08:00:29.0 | yes |
| 96 | (3) 46P-WIRTANEN-V95-88 | S/C WFC3/UVIS | 1 | 11-Dec-2018 08:00:31.0 | yes |
| 97 | (3) 46P-WIRTANEN-V95-88 | S/C WFC3/UVIS | 1 | 11-Dec-2018 08:00:32.0 | yes |
| 98 | (3) 46P-WIRTANEN-V95-88 | S/C WFC3/UVIS | 1 | 11-Dec-2018 08:00:34.0 | yes |

12 Total Orbits Used

ABSTRACT

We request simultaneous observations with Chandra/ACIS and HST/WFC3 to characterize the neutral gas and plasma around comet 46P/Wirtanen. We will use the comet's historic close approach to Earth as a natural laboratory to study charge exchange emission processes. First, we will combine x-ray and visible imaging to map the distribution and variability of gas in the coma. Second, the comet's close proximity allows us to investigate the emission mechanism responsible for faint >1 keV features previously seen in other comets. Third, we will compare the interactions of the solar wind with the gas molecules surrounding the comet and with local interstellar neutral atoms sweeping through the heliosphere.

OBSERVING DESCRIPTION

The HST observations are separated into two epochs, corresponding to the two epochs of Chandra observations. The first epoch is between December 1 and 5, 2018, and the second epoch is between December 13 and 14, 2018. Each epoch contains four orbits, to be executed consecutively.

The preliminary exposure time calculation for 46P is based on the images of Comet C/2013 A1 (Siding Spring) through the same filters (GO-13675 and GO-13934) and the brightness prediction from JPL Horizons for both comets. For C/2013 A1, the peak count rates for F689M, F845M, and FQ387N are 56, 35, and 0.3 DN/s, respectively. Scaling these rates to the conditions of comet 46P requires multiplying by a factor of 9 for December 3, and a factor of 18 for December 13 based on JPL/Horizons. Therefore, the predicted peak count rates for 46P are 300-600, 500-1000, and 2.7-5.4 DN/s in F689M, F845M, and FQ387N filters, respectively. For an exposure level of 10,000 DN (UVIS saturates at ~64,000 DN), the nominal exposure times are 20, 33, 3700 s for December 3, and 10, 16, and 3700 s for December 13 through the three filters F689M, F845M, and FQ387N. Since the nominal exposure time for FQ387N is too long, we break it into pairs of shorter exposures to be bracketed by the medium band filter exposures to allow for continuum removal and to facilitate cosmic ray removal. The FQ387N exposure time we used here is 275 and 290 s. For all exposures, we plan to use 2k-by-2k subframes at the same UVIS chip (UVIS1) as the FQ387N quad filter to save overhead from readout and repointing the telescope, and avoid filling up the camera memory during the target visibility.

For each orbit, we take two sets of back-to-back FQ387N exposures, bracketed by the two medium band filter exposures for continuum removal. A small dither of 0.5" in both x and y detector directions is inserted in the middle of each orbit to mitigate bad pixels and bad columns on the detector.

Comets are notoriously hard to predict. As with all other cometary observations by HST, this is a preliminary observing plan, and will be updated near the actual observations based on the new information of the comet collected as well as the schedule of Chandra observations. The update will include target ephemeris, exposure time, and subframe setting (based on new ephemeris uncertainty). We will work closely with our PC and CS to schedule the observations as close in time as the Chandra observations, ideally simultaneously.

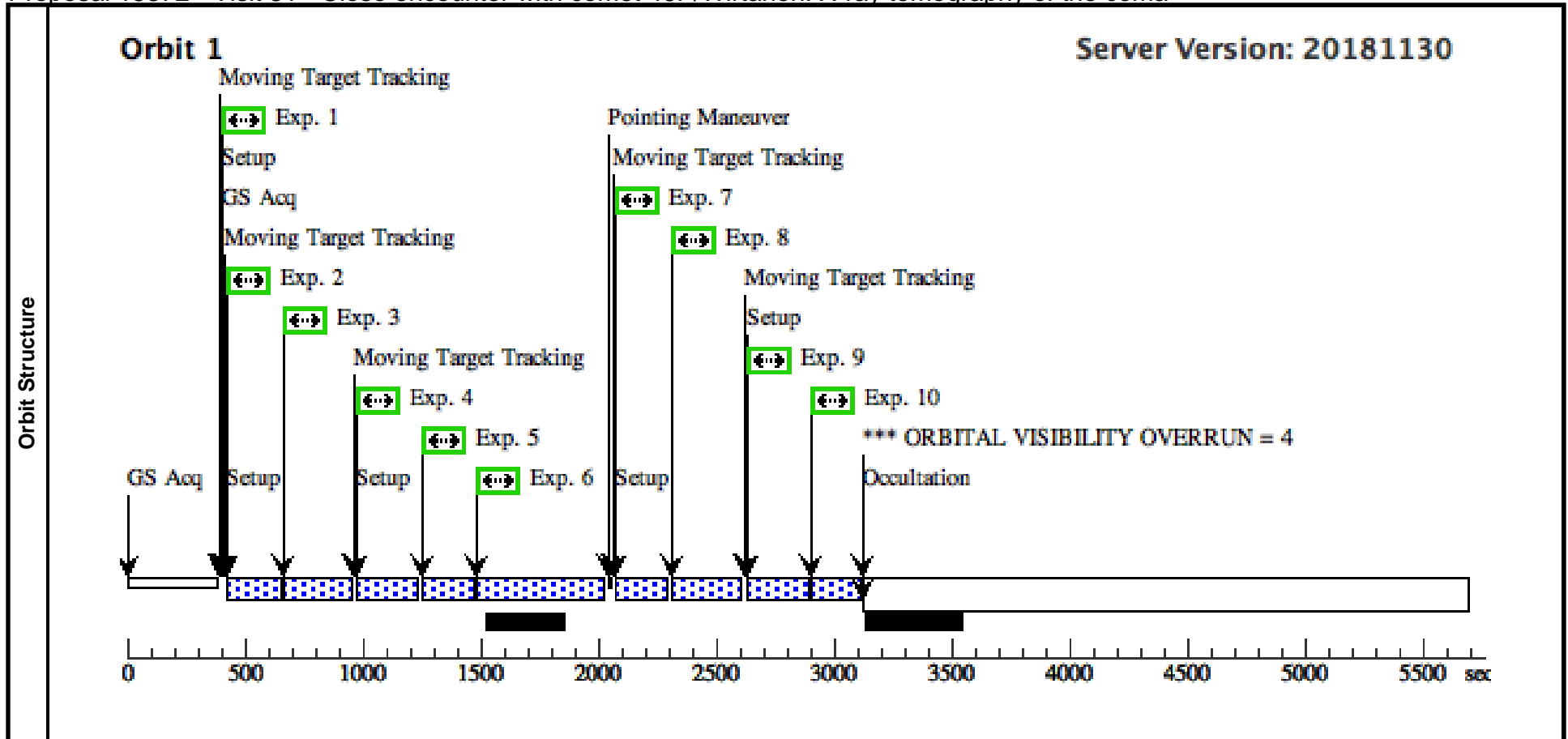
Proposal 15372 - Visit 81 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

Tue Dec 11 13:00:34 GMT 2018

| Visit | <p>Proposal 15372, Visit 81, failed</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: WFC3/UVIS, S/C</p> <p>Special Requirements: BETWEEN 01-DEC-2018:00:00:00 AND 05-DEC-2018:00:00:00; VISIBILITY INTERVAL 52.1 M</p> | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|---|---------|---------|---------|--------|--------------|--|---|------|---------|---------|---------|--------|--------------|-----|---------------------|---|--|--|--|
| | Diagnostics | <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 81)) Error (Form): Illegal selection: S/C.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 81)) Error (Form): POINTING is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 81)) Error (Form): This attribute is not allowed to have this value: Aperture = V1 It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 81)) Error (Form): This attribute is not allowed to have this value: Config = S/C It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 81)) Error (Form): This attribute is not allowed to have this value: Mode = POINTING It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 81)) Error (Form): V1 is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 81) special requirements) Error (Form): Special Requirement SAA CONTOUR is not allowed for this exposure.</p> <p>(Visit 81) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 8 (Sequence 1-10 Non-Int in Visit 81)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(Exposure 9 (Sequence 1-10 Non-Int in Visit 81)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> | | | | | | | | | | | | | | | | | | | |
| Solar System Targets | | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>46P-WIRTANEN-V11-14</td> <td>TYPE=COMET,Q=1.0553581556603 78,E=0.6586722871766302,I=11.7468 657252554 ,O=82.1584356714464,W=356.335363 8179405,T=12-DEC- 2018:22:14:54,TimeScale=TDB,EQ UINOX=J2000,EPOCH=03-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=3.318435549736E-9,A2=- 1.256386339664E-9,A3=0.</td> <td></td> <td></td> <td></td> <td>HUBBLE</td> </tr> </tbody> </table> <p>Comments: Description=Comet 46P/Wirtanen Extended=YES</p> | | | | | | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | (1) | 46P-WIRTANEN-V11-14 | TYPE=COMET,Q=1.0553581556603 78,E=0.6586722871766302,I=11.7468 657252554 ,O=82.1584356714464,W=356.335363 8179405,T=12-DEC- 2018:22:14:54,TimeScale=TDB,EQ UINOX=J2000,EPOCH=03-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=3.318435549736E-9,A2=- 1.256386339664E-9,A3=0. | | | |
| | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | |

Proposal 15372 - Visit 81 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|--|---|---------------------------------------|---------------------------------|-------|
| | 1 | | (1) 46P-WIRTANE N-V11-14 | S/C, POINTING, V1 | | | POS TARG 71.6242, -4.8821; SAA CONTOUR 29; GS ACQ SCENARI O BASE1BE | Sequence 1-10 Non-I nt in Visit 81 | 1 Secs (1 Secs) [==>] | [1] |
| | 2 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | NEW OBSET; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 81 | 20 Secs (20 Secs) [==>] | [1] |
| | 3 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 81 | 85 Secs (85 Secs) [==>] | [1] |
| | 4 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 81 | 85 Secs (85 Secs) [==>] | [1] |
| | 5 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 81 | 33 Secs (33 Secs) [==>] | [1] |
| | 6 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 81 | 340 Secs (340 Secs) [==>] | [1] |
| | 7 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 81 | 33 Secs (33 Secs) [==>] | [1] |
| | 8 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 81 | 85 Secs (85 Secs) [==>] | [1] |
| | 9 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 81 | 85 Secs (85 Secs) [==>] | [1] |
| 10 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 81 | 20 Secs (20 Secs) [==>] | [1] | |



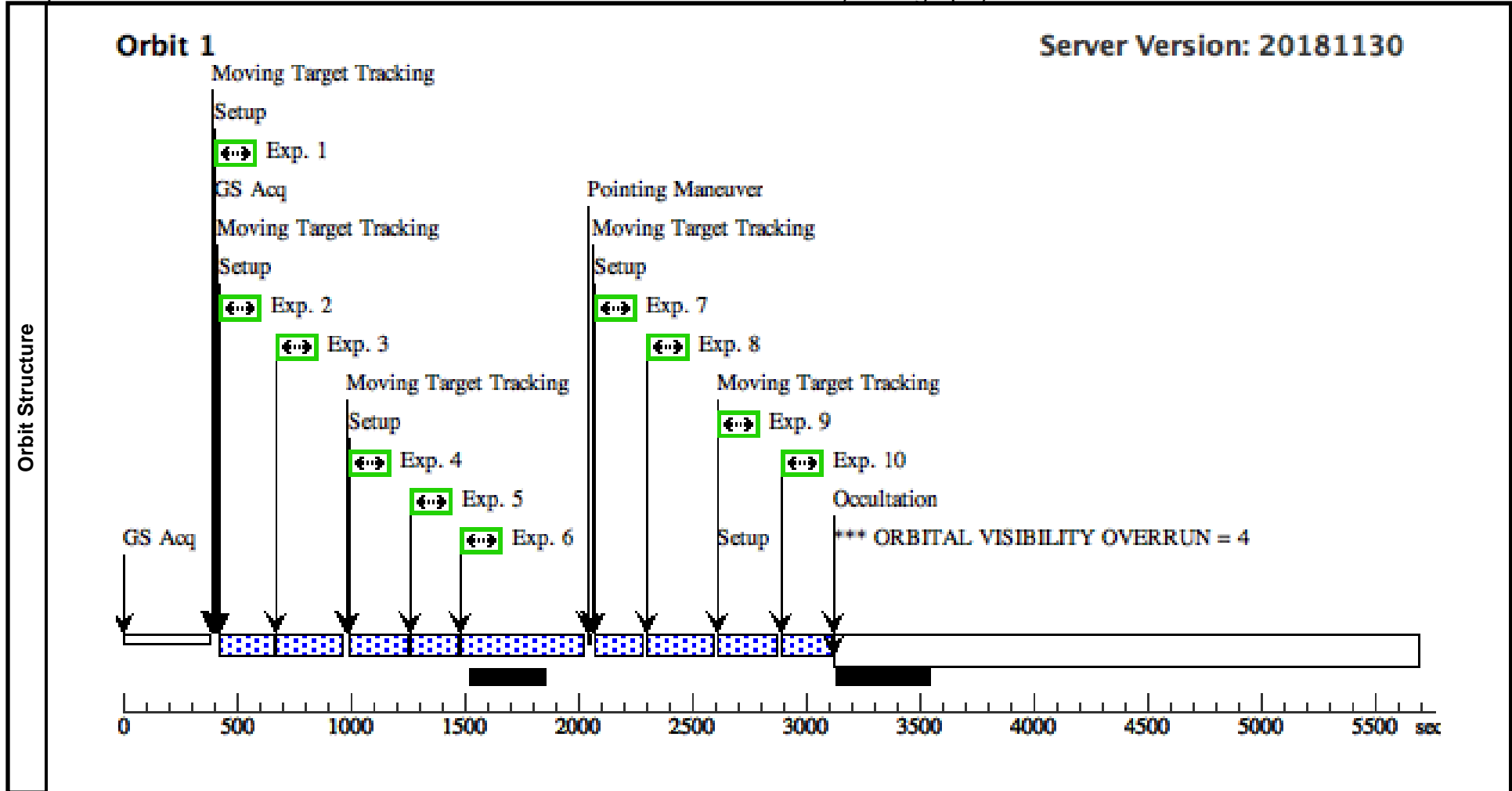
Proposal 15372 - Visit 82 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

Tue Dec 11 13:00:35 GMT 2018

| Visit | <p>Proposal 15372, Visit 82, failed</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: WFC3/UVIS, S/C</p> <p>Special Requirements: AFTER 81 BY 0.8 Orbits TO 1.2 Orbits; VISIBILITY INTERVAL 52.1 M</p> | | | | | | | | | | | | | | | | | | | |
|--|---|---|---------|---------|---------|--------|--------------|---|------|---------|---------|---------|--------|--------------|-----|---------------------|---|--|--|--|
| | Diagnostics | <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 82)) Error (Form): Illegal selection: S/C.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 82)) Error (Form): POINTING is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 82)) Error (Form): This attribute is not allowed to have this value: Aperture = V1 It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 82)) Error (Form): This attribute is not allowed to have this value: Config = S/C It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 82)) Error (Form): This attribute is not allowed to have this value: Mode = POINTING It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 82)) Error (Form): V1 is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 82) special requirements) Error (Form): Special Requirement SAA CONTOUR is not allowed for this exposure.</p> <p>(Visit 82) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 8 (Sequence 1-10 Non-Int in Visit 82)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(Exposure 9 (Sequence 1-10 Non-Int in Visit 82)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> | | | | | | | | | | | | | | | | | | |
| Solar System Targets | | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>46P-WIRTANEN-V11-14</td> <td>TYPE=COMET,Q=1.0553581556603 78,E=0.6586722871766302,I=11.7468 657252554 ,O=82.1584356714464,W=356.335363 8179405,T=12-DEC- 2018:22:14:54,TimeScale=TDB,EQ UINOX=J2000,EPOCH=03-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=3.318435549736E-9,A2=- 1.256386339664E-9,A3=0.</td> <td></td> <td></td> <td></td> <td>HUBBLE</td> </tr> </tbody> </table> | | | | | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | (1) | 46P-WIRTANEN-V11-14 | TYPE=COMET,Q=1.0553581556603 78,E=0.6586722871766302,I=11.7468 657252554 ,O=82.1584356714464,W=356.335363 8179405,T=12-DEC- 2018:22:14:54,TimeScale=TDB,EQ UINOX=J2000,EPOCH=03-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=3.318435549736E-9,A2=- 1.256386339664E-9,A3=0. | | | |
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| <p>Comments: Description=Comet 46P/Wirtanen Extended=YES</p> | | | | | | | | | | | | | | | | | | | | |

Proposal 15372 - Visit 82 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|---|---|---------------------------------------|---------------------------------|-------|
| | 1 | | (1) 46P-WIRTANE N-V11-14 | S/C, POINTING, V1 | | | POS TARG 71.6242, -4.8821; SAA CONTOUR 29; GS ACQ SCENARI O BASE1BE | Sequence 1-10 Non-I nt in Visit 82 | 1 Secs (1 Secs) [==>] | [1] |
| | 2 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | NEW OBSET; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 82 | 33 Secs (33 Secs) [==>] | [1] |
| | 3 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 82 | 85 Secs (85 Secs) [==>] | [1] |
| | 4 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 82 | 85 Secs (85 Secs) [==>] | [1] |
| | 5 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 82 | 20 Secs (20 Secs) [==>] | [1] |
| | 6 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 82 | 340 Secs (340 Secs) [==>] | [1] |
| | 7 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,-0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 82 | 20 Secs (20 Secs) [==>] | [1] |
| | 8 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,-0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 82 | 85 Secs (85 Secs) [==>] | [1] |
| | 9 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,-0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 82 | 85 Secs (85 Secs) [==>] | [1] |
| 10 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,-0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 82 | 33 Secs (33 Secs) [==>] | [1] | |



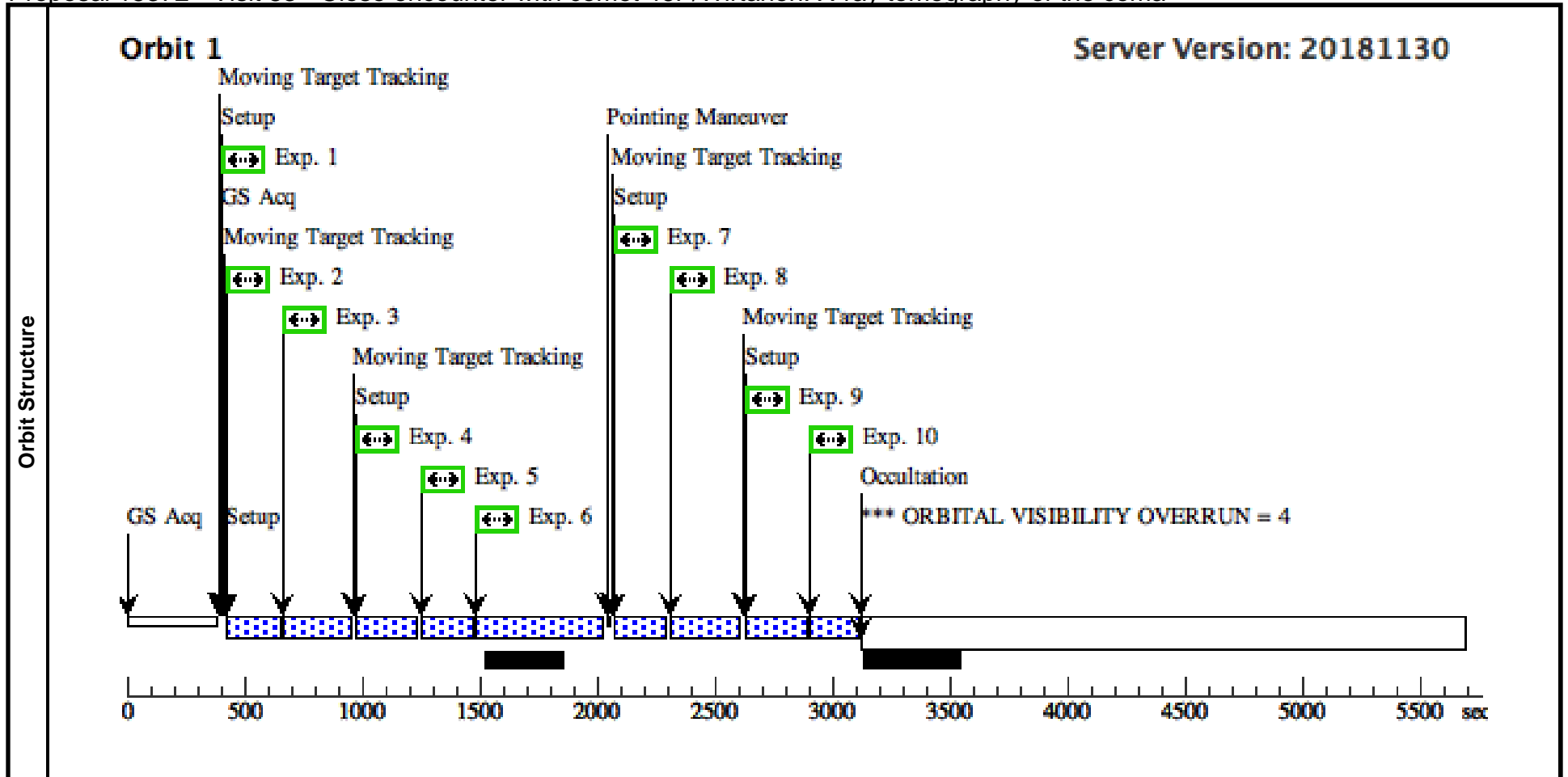
Proposal 15372 - Visit 83 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

Tue Dec 11 13:00:35 GMT 2018

| Visit | <p>Proposal 15372, Visit 83, failed</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: WFC3/UVIS, S/C</p> <p>Special Requirements: AFTER 82 BY 1.8 Orbits TO 2.2 Orbits; VISIBILITY INTERVAL 52.1 M</p> | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---------|---------|---------|--------|--------------|--|---|------|---------|---------|---------|--------|--------------|-----|---------------------|--|--|--|--|
| | Diagnostics | <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 83)) Error (Form): Illegal selection: S/C.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 83)) Error (Form): POINTING is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 83)) Error (Form): This attribute is not allowed to have this value: Aperture = V1 It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 83)) Error (Form): This attribute is not allowed to have this value: Config = S/C It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 83)) Error (Form): This attribute is not allowed to have this value: Mode = POINTING It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 83)) Error (Form): V1 is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 83) special requirements) Error (Form): Special Requirement SAA CONTOUR is not allowed for this exposure.</p> <p>(Visit 83) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 8 (Sequence 1-10 Non-Int in Visit 83)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(Exposure 9 (Sequence 1-10 Non-Int in Visit 83)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> | | | | | | | | | | | | | | | | | | | |
| Solar System Targets | | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>46P-WIRTANEN-V11-14</td> <td>TYPE=COMET,Q=1.0553581556603 78,E=0.6586722871766302,I=11.7468 657252554 ,O=82.1584356714464,W=356.335363 8179405,T=12-DEC- 2018:22:14:54,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=03-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=3.318435549736E-9,A2=- 1.256386339664E-9,A3=0.</td> <td></td> <td></td> <td></td> <td>HUBBLE</td> </tr> </tbody> </table> <p><i>Comments: Description=Comet 46P/Wirtanen</i> <i>Extended=YES</i></p> | | | | | | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | (1) | 46P-WIRTANEN-V11-14 | TYPE=COMET,Q=1.0553581556603 78,E=0.6586722871766302,I=11.7468 657252554 ,O=82.1584356714464,W=356.335363 8179405,T=12-DEC- 2018:22:14:54,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=03-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=3.318435549736E-9,A2=- 1.256386339664E-9,A3=0. | | | |
| | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | | | | | | | | | | | | |
| (1) | 46P-WIRTANEN-V11-14 | TYPE=COMET,Q=1.0553581556603 78,E=0.6586722871766302,I=11.7468 657252554 ,O=82.1584356714464,W=356.335363 8179405,T=12-DEC- 2018:22:14:54,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=03-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=3.318435549736E-9,A2=- 1.256386339664E-9,A3=0. | | | | HUBBLE | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

Proposal 15372 - Visit 83 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|---|---|---------------------------------------|---------------------------------|-------|
| | 1 | | (1) 46P-WIRTANE N-V11-14 | S/C, POINTING, V1 | | | POS TARG 71.6242, -4.8821; SAA CONTOUR 29; GS ACQ SCENARI O BASE1BE | Sequence 1-10 Non-I nt in Visit 83 | 1 Secs (1 Secs) [==>] | [1] |
| | 2 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | NEW OBSET; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 83 | 20 Secs (20 Secs) [==>] | [1] |
| | 3 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 83 | 85 Secs (85 Secs) [==>] | [1] |
| | 4 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 83 | 85 Secs (85 Secs) [==>] | [1] |
| | 5 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 83 | 33 Secs (33 Secs) [==>] | [1] |
| | 6 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 83 | 340 Secs (340 Secs) [==>] | [1] |
| | 7 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 83 | 33 Secs (33 Secs) [==>] | [1] |
| | 8 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 83 | 85 Secs (85 Secs) [==>] | [1] |
| | 9 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 83 | 85 Secs (85 Secs) [==>] | [1] |
| 10 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 83 | 20 Secs (20 Secs) [==>] | [1] | |



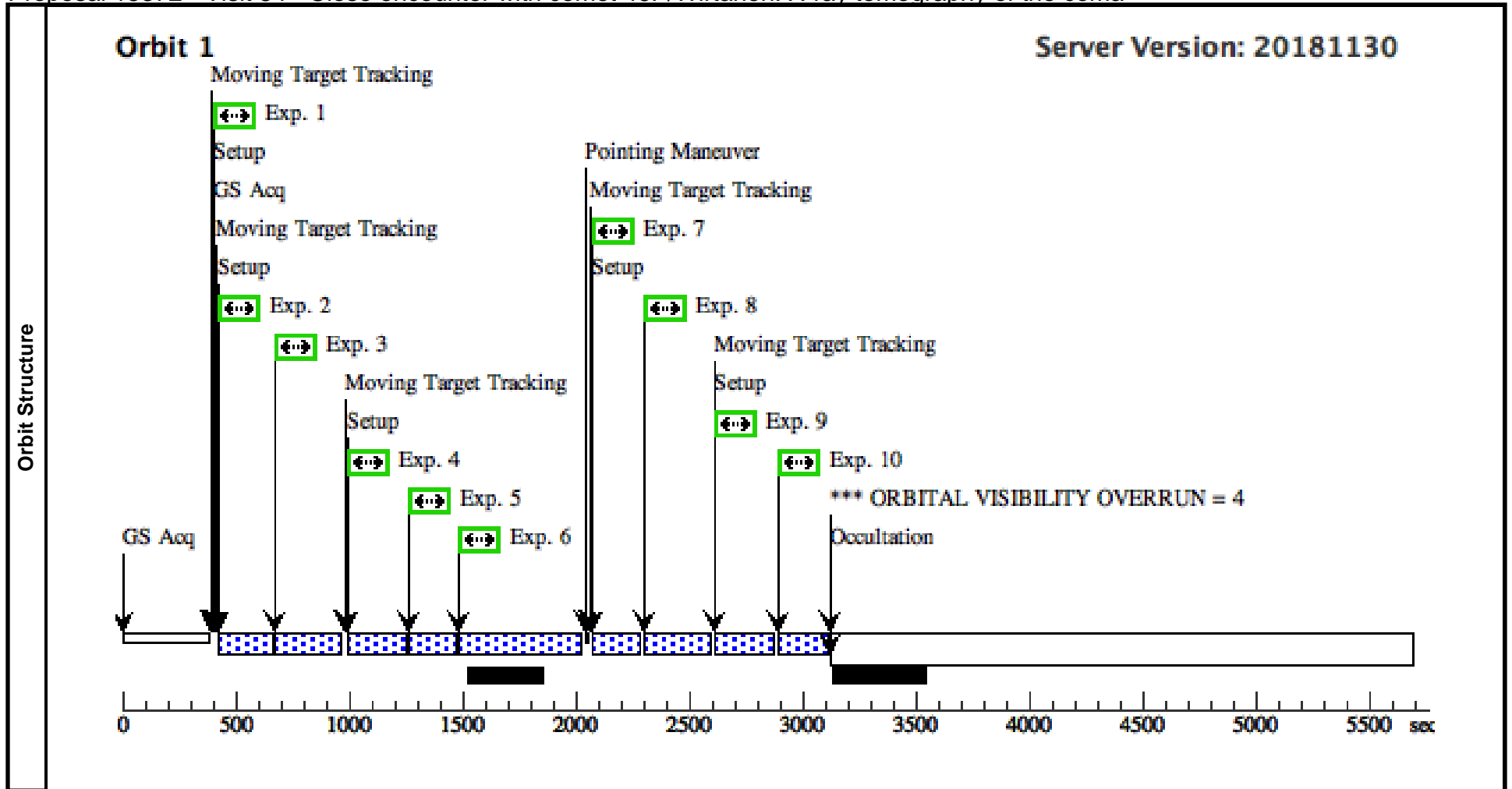
Proposal 15372 - Visit 84 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

Tue Dec 11 13:00:35 GMT 2018

| Visit | <p>Proposal 15372, Visit 84, failed</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: WFC3/UVIS, S/C</p> <p>Special Requirements: AFTER 83 BY 0.8 Orbits TO 1.2 Orbits; VISIBILITY INTERVAL 52.1 M</p> | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|---|---------|---------|---------|--------|--------------|--|---|------|---------|---------|---------|--------|--------------|-----|---------------------|--|--|--|--|
| | Diagnostics | <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 84)) Error (Form): Illegal selection: S/C.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 84)) Error (Form): POINTING is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 84)) Error (Form): This attribute is not allowed to have this value: Aperture = V1 It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 84)) Error (Form): This attribute is not allowed to have this value: Config = S/C It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 84)) Error (Form): This attribute is not allowed to have this value: Mode = POINTING It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 84)) Error (Form): V1 is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 84) special requirements) Error (Form): Special Requirement SAA CONTOUR is not allowed for this exposure.</p> <p>(Visit 84) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 8 (Sequence 1-10 Non-Int in Visit 84)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(Exposure 9 (Sequence 1-10 Non-Int in Visit 84)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> | | | | | | | | | | | | | | | | | | | |
| Solar System Targets | | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>46P-WIRTANEN-V11-14</td> <td>TYPE=COMET,Q=1.0553581556603 78,E=0.6586722871766302,I=11.7468 657252554 ,O=82.1584356714464,W=356.335363 8179405,T=12-DEC- 2018:22:14:54,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=03-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=3.318435549736E-9,A2=- 1.256386339664E-9,A3=0.</td> <td></td> <td></td> <td></td> <td>HUBBLE</td> </tr> </tbody> </table> <p><i>Comments: Description=Comet 46P/Wirtanen</i> <i>Extended=YES</i></p> | | | | | | | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | (1) | 46P-WIRTANEN-V11-14 | TYPE=COMET,Q=1.0553581556603 78,E=0.6586722871766302,I=11.7468 657252554 ,O=82.1584356714464,W=356.335363 8179405,T=12-DEC- 2018:22:14:54,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=03-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=3.318435549736E-9,A2=- 1.256386339664E-9,A3=0. | | | |
| | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | | | | | | | | | | | | |
| (1) | 46P-WIRTANEN-V11-14 | TYPE=COMET,Q=1.0553581556603 78,E=0.6586722871766302,I=11.7468 657252554 ,O=82.1584356714464,W=356.335363 8179405,T=12-DEC- 2018:22:14:54,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=03-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=3.318435549736E-9,A2=- 1.256386339664E-9,A3=0. | | | | HUBBLE | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

Proposal 15372 - Visit 84 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|--|---|---------------------------------------|---------------------------------|-------|
| | 1 | | (1) 46P-WIRTANE N-V11-14 | S/C, POINTING, V1 | | | POS TARG 71.6242, -4.8821; SAA CONTOUR 29; GS ACQ SCENARI O BASE1BE | Sequence 1-10 Non-I nt in Visit 84 | 1 Secs (1 Secs) [==>] | [1] |
| | 2 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | NEW OBSET; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 84 | 33 Secs (33 Secs) [==>] | [1] |
| | 3 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 84 | 85 Secs (85 Secs) [==>] | [1] |
| | 4 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 84 | 85 Secs (85 Secs) [==>] | [1] |
| | 5 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 84 | 20 Secs (20 Secs) [==>] | [1] |
| | 6 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 84 | 340 Secs (340 Secs) [==>] | [1] |
| | 7 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,-0.5 ; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 84 | 20 Secs (20 Secs) [==>] | [1] |
| | 8 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,-0.5 ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 84 | 85 Secs (85 Secs) [==>] | [1] |
| | 9 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,-0.5 ; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 84 | 85 Secs (85 Secs) [==>] | [1] |
| 10 | | (1) 46P-WIRTANE N-V11-14 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,-0.5 ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 84 | 33 Secs (33 Secs) [==>] | [1] | |



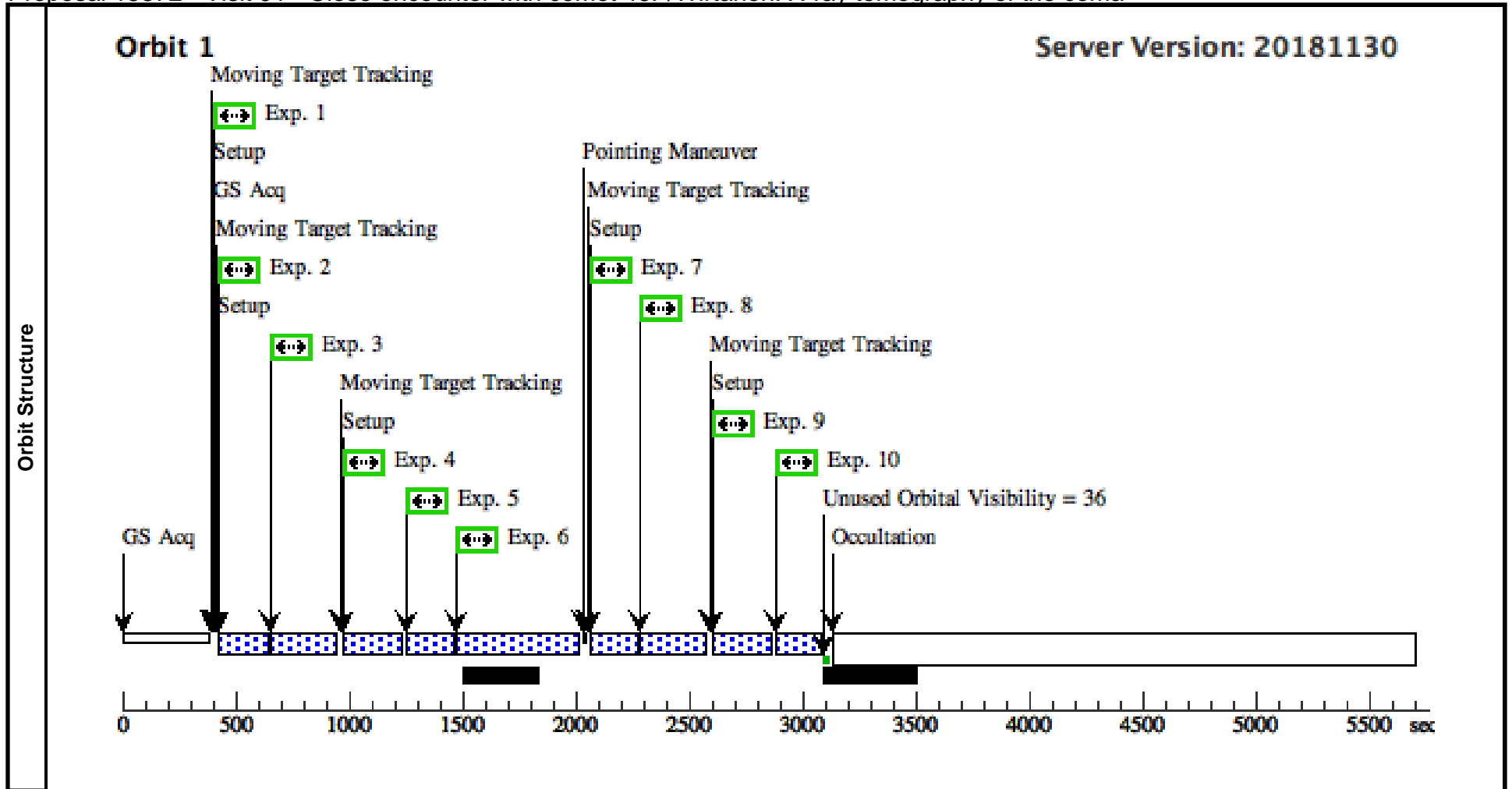
Proposal 15372 - Visit 91 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

Tue Dec 11 13:00:35 GMT 2018

| Visit | <p>Proposal 15372, Visit 91, scheduled</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: WFC3/UVIS, S/C</p> <p>Special Requirements: BETWEEN 13-DEC-2018:00:00:00 AND 14-DEC-2018:00:00:00; VISIBILITY INTERVAL 52.2 M</p> | | | | | | | | | | | | | |
|---|---|---|---------|---------|---------|--------------|--------------|-----|---------------------|---|--|--|--|--------|
| | Diagnostics | | | | | | | | | | | | | |
| Solar System Targets | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>46P-WIRTANEN-V21-24</td> <td>TYPE=COMET,Q=1.055351216826601,E=0.6587666506584203,I=11.74779039480346,O=82.15669237920194,W=356.3426966605966,T=12-DEC-2018:22:21:23,TTimeScale=TDB,EQUINOX=J2000,EPOCH=13-DEC-2018:00:00:00,EpochTimeScale=TDB,A1=2.151896506548E-9,A2=-1.977165043354E-9,A3=2.400804460049E-9</td> <td></td> <td></td> <td></td> <td>HUBBLE</td> </tr> </tbody> </table> <p><i>Comments: Description=Comet 46P/Wirtanen</i> <i>Extended=YES</i></p> | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | (2) | 46P-WIRTANEN-V21-24 | TYPE=COMET,Q=1.055351216826601,E=0.6587666506584203,I=11.74779039480346,O=82.15669237920194,W=356.3426966605966,T=12-DEC-2018:22:21:23,TTimeScale=TDB,EQUINOX=J2000,EPOCH=13-DEC-2018:00:00:00,EpochTimeScale=TDB,A1=2.151896506548E-9,A2=-1.977165043354E-9,A3=2.400804460049E-9 | | | | HUBBLE |
| # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | | | | | | |
| (2) | 46P-WIRTANEN-V21-24 | TYPE=COMET,Q=1.055351216826601,E=0.6587666506584203,I=11.74779039480346,O=82.15669237920194,W=356.3426966605966,T=12-DEC-2018:22:21:23,TTimeScale=TDB,EQUINOX=J2000,EPOCH=13-DEC-2018:00:00:00,EpochTimeScale=TDB,A1=2.151896506548E-9,A2=-1.977165043354E-9,A3=2.400804460049E-9 | | | | HUBBLE | | | | | | | | |

Proposal 15372 - Visit 91 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|--|--|---|---------------------------------------|---------------------------------|-------|
| | 1 | (2) 46P-WIRTANE N-V21-24 | S/C, POINTING, V1 | | | | POS TARG 71.6242, -4.8821; SAA CONTOUR 29; GS ACQ SCENARI O BASE1BE | Sequence 1-10 Non-I nt in Visit 91 | 1 Secs (1 Secs) [==>] | [1] |
| | 2 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | NEW OBSET; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 91 | 10 Secs (10 Secs) [==>] | [1] | |
| | 3 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 91 | 90 Secs (90 Secs) [==>] | [1] | |
| | 4 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 91 | 90 Secs (90 Secs) [==>] | [1] | |
| | 5 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 91 | 16 Secs (16 Secs) [==>] | [1] | |
| | 6 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 91 | 340 Secs (340 Secs) [==>] | [1] | |
| | 7 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 91 | 16 Secs (16 Secs) [==>] | [1] | |
| | 8 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 91 | 90 Secs (90 Secs) [==>] | [1] | |
| | 9 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 91 | 90 Secs (90 Secs) [==>] | [1] | |
| 10 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 91 | 10 Secs (10 Secs) [==>] | [1] | | |



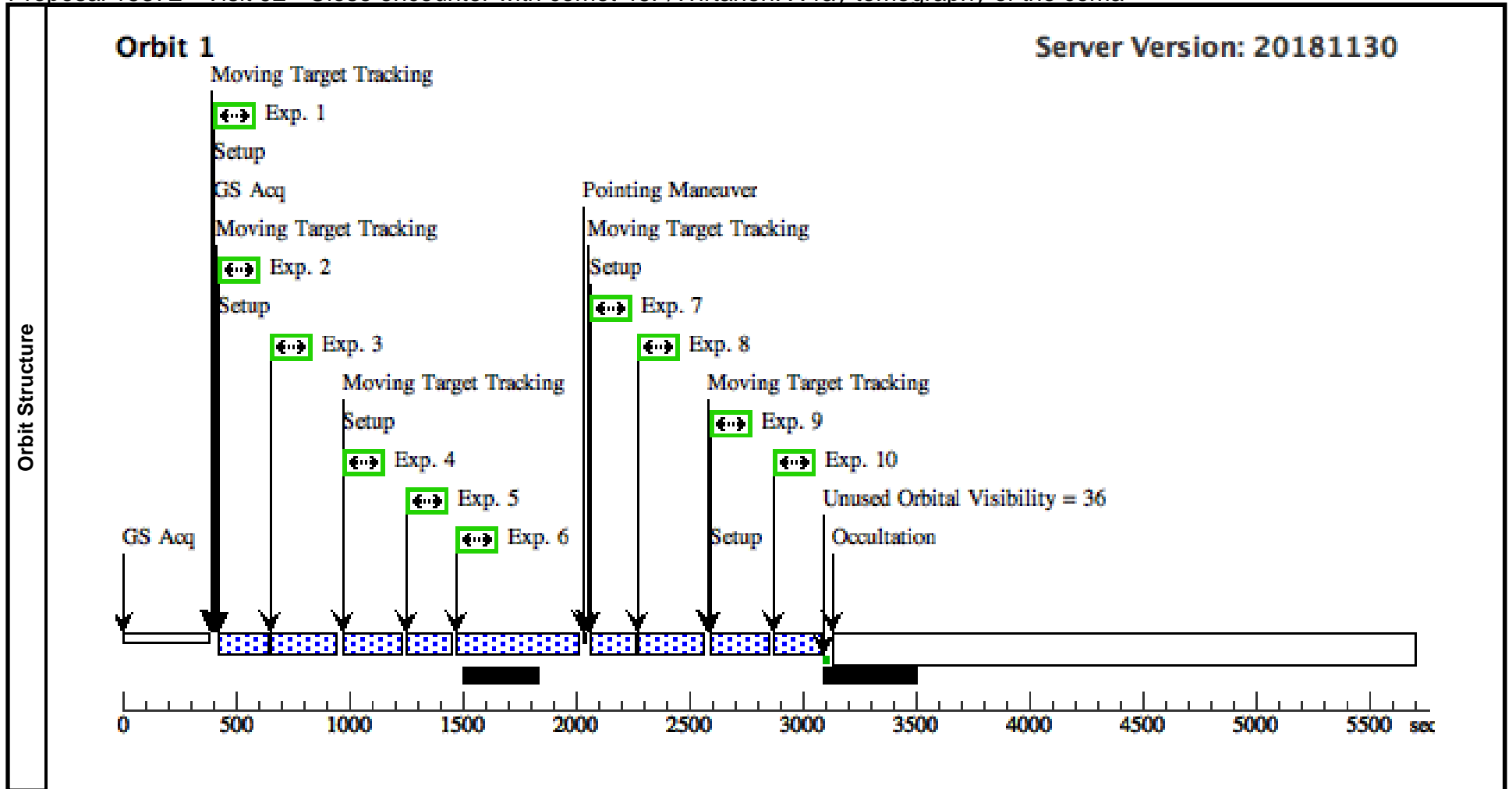
Proposal 15372 - Visit 92 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

Tue Dec 11 13:00:35 GMT 2018

| | | | | | | | |
|--|--|---|---------------------|---|----------------|----------------|---------------|
| Visit | <p>Proposal 15372, Visit 92, scheduled</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: WFC3/UVIS, S/C</p> <p>Special Requirements: AFTER 91 BY 0.8 Orbits TO 1.2 Orbits; VISIBILITY INTERVAL 52.2 M</p> | | | | | | |
| | Diagnostics | <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 92)) Error (Form): Illegal selection: S/C.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 92)) Error (Form): POINTING is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 92)) Error (Form): This attribute is not allowed to have this value: Aperture = V1 It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 92)) Error (Form): This attribute is not allowed to have this value: Config = S/C It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 92)) Error (Form): This attribute is not allowed to have this value: Mode = POINTING It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 92)) Error (Form): V1 is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 92) special requirements) Error (Form): Special Requirement SAA CONTOUR is not allowed for this exposure.</p> <p>(Exposure 8 (Sequence 1-10 Non-Int in Visit 92)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(Exposure 9 (Sequence 1-10 Non-Int in Visit 92)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> | | | | | |
| Solar System Targets | | # | Name | Level 1 | Level 2 | Level 3 | Window |
| | | (2) | 46P-WIRTANEN-V21-24 | TYPE=COMET,Q=1.055351216826601,E=0.6587666506584203,I=11.74779039480346,O=82.15669237920194,W=356.3426966605966,T=12-DEC-2018:22:21:23,TTimeScale=TDB,EQUINOX=J2000,EPOCH=13-DEC-2018:00:00:00,EpochTimeScale=TDB,A1=2.151896506548E-9,A2=-1.977165043354E-9,A3=2.400804460049E-9 | | | HUBBLE |
| <p>Comments: Description=Comet 46P/Wirtanen Extended=YES</p> | | | | | | | |

Proposal 15372 - Visit 92 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|---|---|---------------------------------------|---------------------------------|-------|
| | 1 | | (2) 46P-WIRTANE N-V21-24 | S/C, POINTING, V1 | | | POS TARG 71.6242, -4.8821; SAA CONTOUR 29; GS ACQ SCENARI O BASE1BE | Sequence 1-10 Non-I nt in Visit 92 | 1 Secs (1 Secs) [==>] | [1] |
| | 2 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | NEW OBSET; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 92 | 16 Secs (16 Secs) [==>] | [1] |
| | 3 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 92 | 90 Secs (90 Secs) [==>] | [1] |
| | 4 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 92 | 90 Secs (90 Secs) [==>] | [1] |
| | 5 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 92 | 10 Secs (10 Secs) [==>] | [1] |
| | 6 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 92 | 340 Secs (340 Secs) [==>] | [1] |
| | 7 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,-0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 92 | 10 Secs (10 Secs) [==>] | [1] |
| | 8 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,-0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 92 | 90 Secs (90 Secs) [==>] | [1] |
| | 9 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,-0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 92 | 90 Secs (90 Secs) [==>] | [1] |
| 10 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,-0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 92 | 16 Secs (16 Secs) [==>] | [1] | |



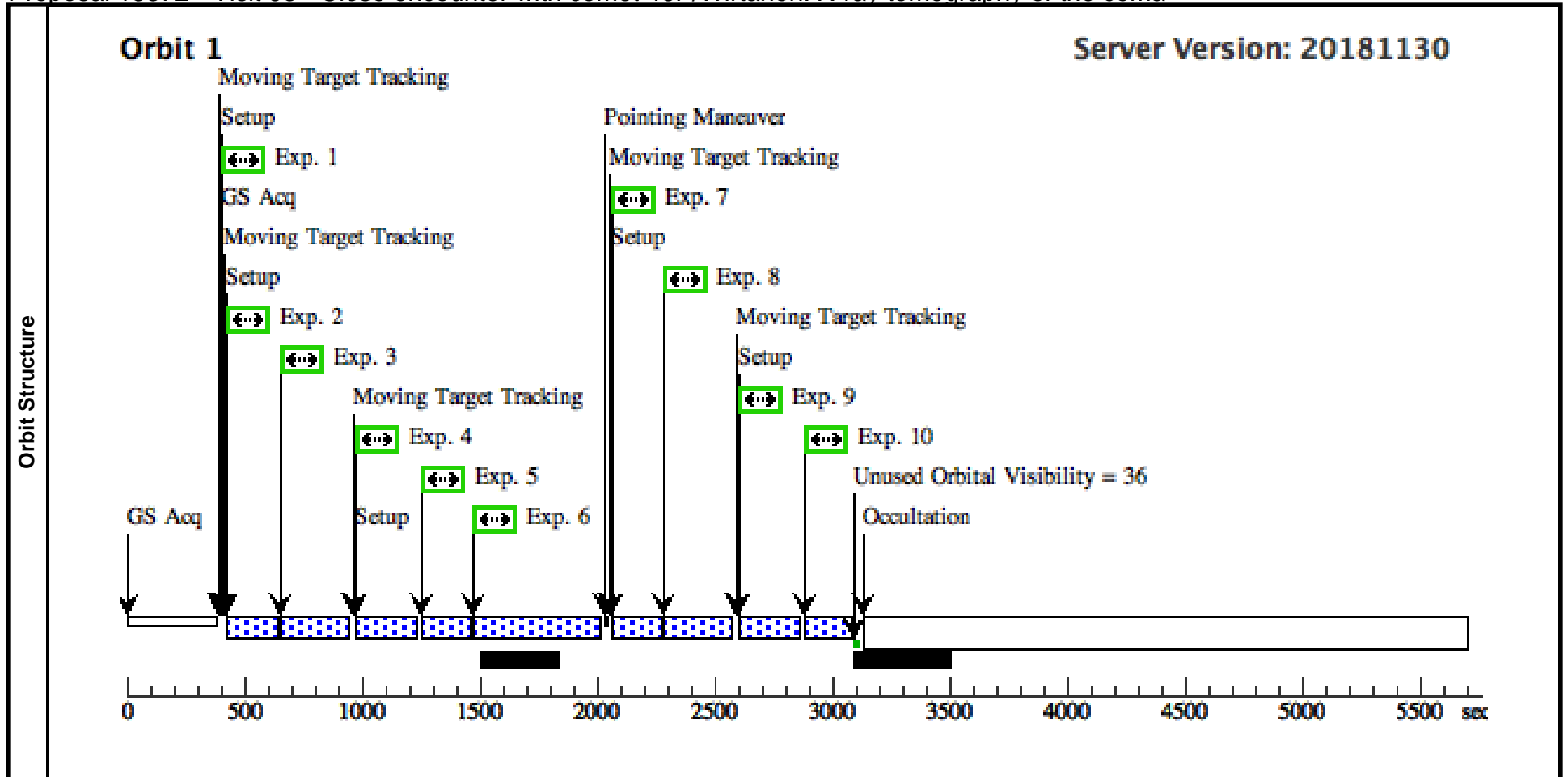
Proposal 15372 - Visit 93 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

Tue Dec 11 13:00:35 GMT 2018

| | | | | | | | |
|--|--|---|---------------------|--|----------------|----------------|---------------|
| Visit | <p>Proposal 15372, Visit 93, scheduled</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: WFC3/UVIS, S/C</p> <p>Special Requirements: AFTER 92 BY 1.8 Orbits TO 2.2 Orbits; VISIBILITY INTERVAL 52.2 M</p> | | | | | | |
| | Diagnostics | <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 93)) Error (Form): Illegal selection: S/C.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 93)) Error (Form): POINTING is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 93)) Error (Form): This attribute is not allowed to have this value: Aperture = V1 It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 93)) Error (Form): This attribute is not allowed to have this value: Config = S/C It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 93)) Error (Form): This attribute is not allowed to have this value: Mode = POINTING It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 93)) Error (Form): V1 is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 93) special requirements) Error (Form): Special Requirement SAA CONTOUR is not allowed for this exposure.</p> <p>(Exposure 8 (Sequence 1-10 Non-Int in Visit 93)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(Exposure 9 (Sequence 1-10 Non-Int in Visit 93)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> | | | | | |
| Solar System Targets | | # | Name | Level 1 | Level 2 | Level 3 | Window |
| | | (2) | 46P-WIRTANEN-V21-24 | TYPE=COMET,Q=1.055351216826601,E=0.6587666506584203,I=11.74779039480346,O=82.15669237920194,W=356.3426966605966,T=12-DEC-2018:22:21:23,TimeScale=TDB,EQUINOX=J2000,EPOCH=13-DEC-2018:00:00:00,EpochTimeScale=TDB,A1=2.151896506548E-9,A2=-1.977165043354E-9,A3=2.400804460049E-9 | | | HUBBLE |
| <p>Comments: Description=Comet 46P/Wirtanen Extended=YES</p> | | | | | | | |

Proposal 15372 - Visit 93 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|---|---|---|---------------------------------------|---------------------------------|-------|
| | 1 | (2) 46P-WIRTANE N-V21-24 | S/C, POINTING, V1 | | | | POS TARG 71.6242, -4.8821; SAA CONTOUR 29; GS ACQ SCENARI O BASE1BE | Sequence 1-10 Non-I nt in Visit 93 | 1 Secs (1 Secs) [==>] | [1] |
| | 2 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | NEW OBSET; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 93 | 10 Secs (10 Secs) [==>] | [1] | |
| | 3 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 93 | 90 Secs (90 Secs) [==>] | [1] | |
| | 4 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 93 | 90 Secs (90 Secs) [==>] | [1] | |
| | 5 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 93 | 16 Secs (16 Secs) [==>] | [1] | |
| | 6 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 93 | 340 Secs (340 Secs) [==>] | [1] | |
| | 7 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 93 | 16 Secs (16 Secs) [==>] | [1] | |
| | 8 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 93 | 90 Secs (90 Secs) [==>] | [1] | |
| | 9 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 93 | 90 Secs (90 Secs) [==>] | [1] | |
| 10 | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 93 | 10 Secs (10 Secs) [==>] | [1] | | |



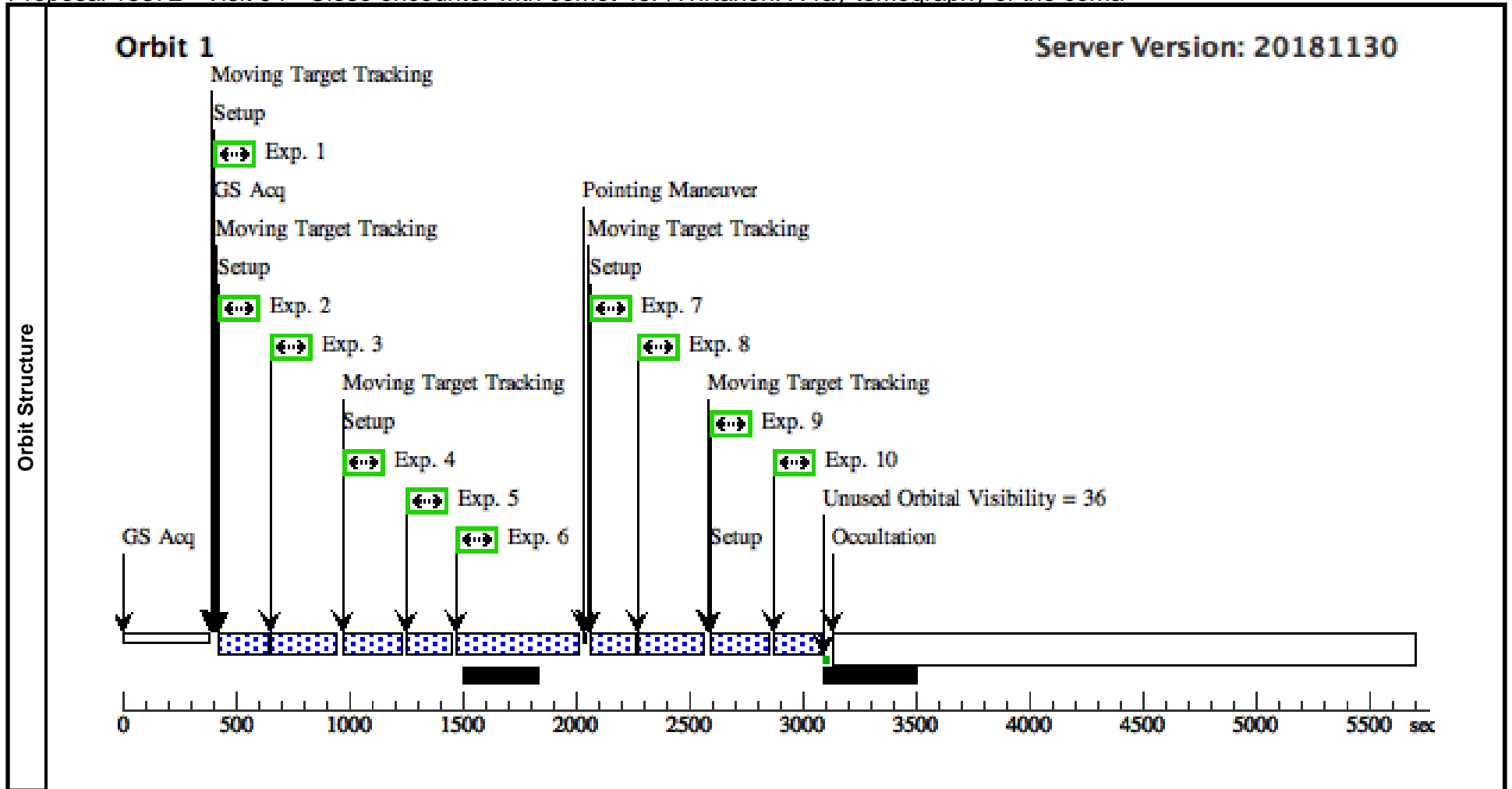
Proposal 15372 - Visit 94 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

Tue Dec 11 13:00:35 GMT 2018

| | | | | | | | |
|--|--|---|---------------------|--|----------------|----------------|---------------|
| Visit | <p>Proposal 15372, Visit 94, scheduled</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: WFC3/UVIS, S/C</p> <p>Special Requirements: AFTER 93 BY 0.8 Orbits TO 1.2 Orbits; VISIBILITY INTERVAL 52.2 M</p> | | | | | | |
| | Diagnostics | <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 94)) Error (Form): Illegal selection: S/C.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 94)) Error (Form): POINTING is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 94)) Error (Form): This attribute is not allowed to have this value: Aperture = V1 It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 94)) Error (Form): This attribute is not allowed to have this value: Config = S/C It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 94)) Error (Form): This attribute is not allowed to have this value: Mode = POINTING It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 94)) Error (Form): V1 is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 94) special requirements) Error (Form): Special Requirement SAA CONTOUR is not allowed for this exposure.</p> <p>(Exposure 8 (Sequence 1-10 Non-Int in Visit 94)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(Exposure 9 (Sequence 1-10 Non-Int in Visit 94)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> | | | | | |
| Solar System Targets | | # | Name | Level 1 | Level 2 | Level 3 | Window |
| | | (2) | 46P-WIRTANEN-V21-24 | TYPE=COMET,Q=1.0553512168266 01,E=0.6587666506584203,I=11.7477 9039480346 ,O=82.15669237920194,W=356.34269 66605966,T=12-DEC- 2018:22:21:23,TimeScale=TDB,EQ UINOX=J2000,EPOCH=13-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=2.151896506548E-9,A2=- 1.977165043354E- 9,A3=2.400804460049E-9 | | | HUBBLE |
| <p>Comments: Description=Comet 46P/Wirtanen Extended=YES</p> | | | | | | | |

Proposal 15372 - Visit 94 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|---|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|--|---|---------------------------------------|---------------------------------|-------|
| | 1 | | (2) 46P-WIRTANE N-V21-24 | S/C, POINTING, V1 | | | POS TARG 71.6242, -4.8821; SAA CONTOUR 29; GS ACQ SCENARI O BASE1BE | Sequence 1-10 Non-I nt in Visit 94 | 1 Secs (1 Secs) [==>] | [1] |
| | 2 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | NEW OBSET; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 94 | 16 Secs (16 Secs) [==>] | [1] |
| | 3 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 94 | 90 Secs (90 Secs) [==>] | [1] |
| | 4 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 94 | 90 Secs (90 Secs) [==>] | [1] |
| | 5 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 94 | 10 Secs (10 Secs) [==>] | [1] |
| | 6 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 94 | 340 Secs (340 Secs) [==>] | [1] |
| | 7 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,-0.5 ; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 94 | 10 Secs (10 Secs) [==>] | [1] |
| | 8 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,-0.5 ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 94 | 90 Secs (90 Secs) [==>] | [1] |
| | 9 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,-0.5 ; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 94 | 90 Secs (90 Secs) [==>] | [1] |
| 10 | | (2) 46P-WIRTANE N-V21-24 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,-0.5 ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 94 | 16 Secs (16 Secs) [==>] | [1] | |



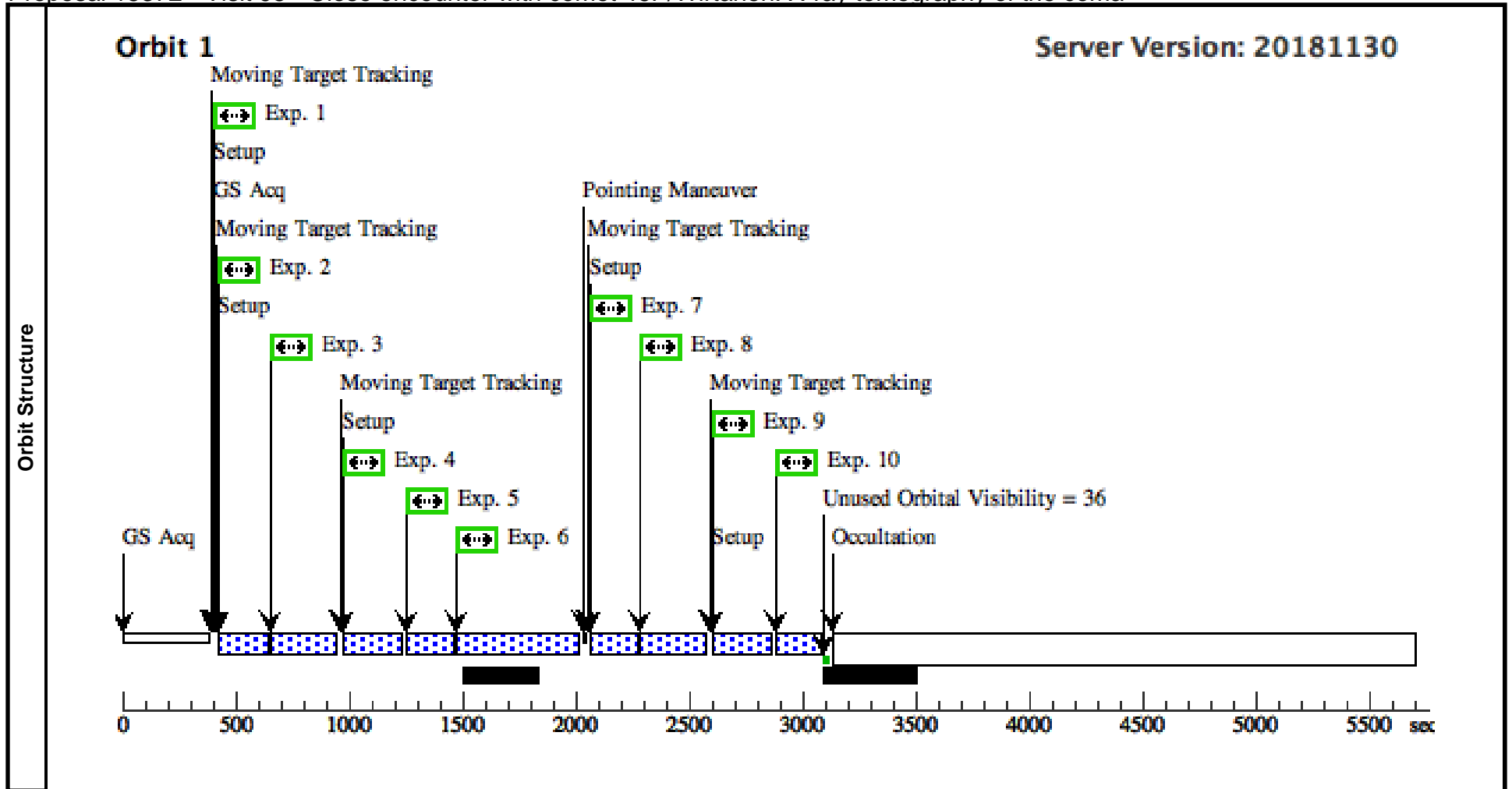
Proposal 15372 - Visit 95 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

Tue Dec 11 13:00:35 GMT 2018

| Visit | <p>Proposal 15372, Visit 95, implementation</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: WFC3/UVIS, S/C</p> <p>Special Requirements: BETWEEN 24-DEC-2018:00:00:00 AND 31-DEC-2018:00:00:00; VISIBILITY INTERVAL 52.2 M</p> | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|--|---------|---------|---------|---------|--------------|--------------|-----|---------------------|--|--|--|--|-------|---|--|--|--|--|
| | <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 95)) Error (Form): Illegal selection: S/C.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 95)) Error (Form): POINTING is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 95)) Error (Form): This attribute is not allowed to have this value: Aperture = V1 It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 95)) Error (Form): This attribute is not allowed to have this value: Config = S/C It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 95)) Error (Form): This attribute is not allowed to have this value: Mode = POINTING It is an Available option and cannot normally be used in a GO proposal.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 95)) Error (Form): V1 is not a valid selection.</p> <p>(Exposure 1 (Sequence 1-10 Non-Int in Visit 95) special requirements) Error (Form): Special Requirement SAA CONTOUR is not allowed for this exposure.</p> <p>(Exposure 8 (Sequence 1-10 Non-Int in Visit 95)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> <p>(Exposure 9 (Sequence 1-10 Non-Int in Visit 95)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant.</p> | | | | | | | | | | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Solar System Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>46P-WIRTANEN-V95-88</td> <td>TYPE=COMET,Q=1.055363077493166,E=0.6588037968649246,I=11.74704707224198,O=82.15726140588575,W=356.3511839946604,T=12-DEC-2018:22:32:54,TTimeScale=TDB,EQUINOX=J2000,EPOCH=24-DEC-2018:00:00:00,EpochTimeScale=TDB,A1=4.413849486972766E-9,A2=-2.468375212501156E-9,A3=1.314459236229123E-9</td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | (3) | 46P-WIRTANEN-V95-88 | TYPE=COMET,Q=1.055363077493166,E=0.6588037968649246,I=11.74704707224198,O=82.15726140588575,W=356.3511839946604,T=12-DEC-2018:22:32:54,TTimeScale=TDB,EQUINOX=J2000,EPOCH=24-DEC-2018:00:00:00,EpochTimeScale=TDB,A1=4.413849486972766E-9,A2=-2.468375212501156E-9,A3=1.314459236229123E-9 | | | | EARTH | <p><i>Comments: not ground based parallax since the target is further away.</i></p> <p><i>Description=Comet 46P/Wirtanen</i></p> <p><i>Extended=YES</i></p> | | | | |
| | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | | | | | | | | | | | |
| (3) | 46P-WIRTANEN-V95-88 | TYPE=COMET,Q=1.055363077493166,E=0.6588037968649246,I=11.74704707224198,O=82.15726140588575,W=356.3511839946604,T=12-DEC-2018:22:32:54,TTimeScale=TDB,EQUINOX=J2000,EPOCH=24-DEC-2018:00:00:00,EpochTimeScale=TDB,A1=4.413849486972766E-9,A2=-2.468375212501156E-9,A3=1.314459236229123E-9 | | | | EARTH | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

Proposal 15372 - Visit 95 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|--|--|---|---------------------------------------|---------------------------------|-------|
| | 1 | (3) 46P-WIRTANE N-V95-88 | S/C, POINTING, V1 | | | | POS TARG 71.6242, -4.8821; SAA CONTOUR 29; GS ACQ SCENARI O BASE1BE | Sequence 1-10 Non-I nt in Visit 95 | 1 Secs (1 Secs) [==>] | [1] |
| | 2 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | NEW OBSET; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 95 | 10 Secs (10 Secs) [==>] | [1] | |
| | 3 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 95 | 90 Secs (90 Secs) [==>] | [1] | |
| | 4 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 95 | 90 Secs (90 Secs) [==>] | [1] | |
| | 5 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 95 | 16 Secs (16 Secs) [==>] | [1] | |
| | 6 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 95 | 340 Secs (340 Secs) [==>] | [1] | |
| | 7 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 95 | 16 Secs (16 Secs) [==>] | [1] | |
| | 8 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 95 | 90 Secs (90 Secs) [==>] | [1] | |
| | 9 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 95 | 90 Secs (90 Secs) [==>] | [1] | |
| 10 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 95 | 10 Secs (10 Secs) [==>] | [1] | | |



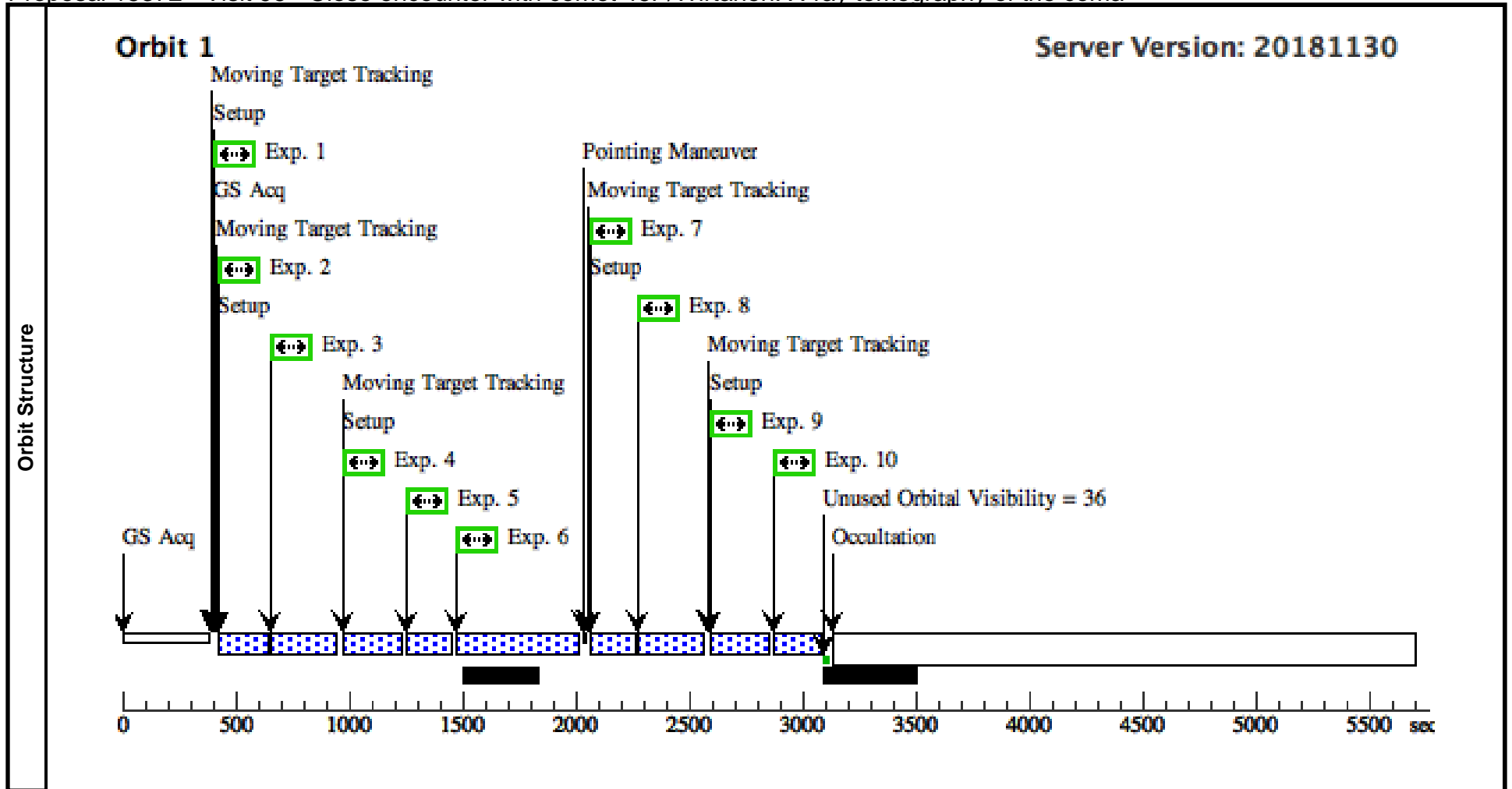
Proposal 15372 - Visit 96 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

Tue Dec 11 13:00:35 GMT 2018

| | | | | | | |
|---|---|---------------------|--|----------------|----------------|---------------|
| Visit | Proposal 15372, Visit 96, implementation Diagnostic Status: Error Scientific Instruments: WFC3/UVIS, S/C Special Requirements: AFTER 95 BY 0.8 Orbits TO 1.2 Orbits; VISIBILITY INTERVAL 52.2 M | | | | | |
| | (Exposure 1 (Sequence 1-10 Non-Int in Visit 96)) Error (Form): Illegal selection: S/C. (Exposure 1 (Sequence 1-10 Non-Int in Visit 96)) Error (Form): POINTING is not a valid selection. (Exposure 1 (Sequence 1-10 Non-Int in Visit 96)) Error (Form): This attribute is not allowed to have this value: Aperture = V1 It is an Available option and cannot normally be used in a GO proposal. (Exposure 1 (Sequence 1-10 Non-Int in Visit 96)) Error (Form): This attribute is not allowed to have this value: Config = S/C It is an Available option and cannot normally be used in a GO proposal. (Exposure 1 (Sequence 1-10 Non-Int in Visit 96)) Error (Form): This attribute is not allowed to have this value: Mode = POINTING It is an Available option and cannot normally be used in a GO proposal. (Exposure 1 (Sequence 1-10 Non-Int in Visit 96)) Error (Form): V1 is not a valid selection. (Exposure 1 (Sequence 1-10 Non-Int in Visit 96) special requirements) Error (Form): Special Requirement SAA CONTOUR is not allowed for this exposure. (Exposure 8 (Sequence 1-10 Non-Int in Visit 96)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (Exposure 9 (Sequence 1-10 Non-Int in Visit 96)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. | | | | | |
| Diagnostics | | | | | | |
| | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window |
| | (3) | 46P-WIRTANEN-V95-88 | TYPE=COMET,Q=1.0553630774931 66,E=0.6588037968649246,I=11.7470 4707224198,O=82.15726140588575, W=356.3511839946604,T=12-DEC- 2018:22:32:54,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=4.413849486972766E-9,A2=- 2.468375212501156E- 9,A3=1.314459236229123E-9 | | | |
| Comments: not ground based parallax since the target is further away. Description=Comet 46P/Wirtanen Extended=YES | | | | | | |

Proposal 15372 - Visit 96 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|---|---|---|---------------------------------------|---------------------------------|-------|
| | 1 | (3) 46P-WIRTANE N-V95-88 | S/C, POINTING, V1 | | | | POS TARG 71.6242, -4.8821; SAA CONTOUR 29; GS ACQ SCENARI O BASE1BE | Sequence 1-10 Non-I nt in Visit 96 | 1 Secs (1 Secs) [==>] | [1] |
| | 2 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | NEW OBSET; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 96 | 16 Secs (16 Secs) [==>] | [1] | |
| | 3 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 96 | 90 Secs (90 Secs) [==>] | [1] | |
| | 4 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 96 | 90 Secs (90 Secs) [==>] | [1] | |
| | 5 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 96 | 10 Secs (10 Secs) [==>] | [1] | |
| | 6 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 96 | 340 Secs (340 Secs) [==>] | [1] | |
| | 7 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,-0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 96 | 10 Secs (10 Secs) [==>] | [1] | |
| | 8 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,-0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 96 | 90 Secs (90 Secs) [==>] | [1] | |
| | 9 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,-0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 96 | 90 Secs (90 Secs) [==>] | [1] | |
| 10 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | POS TARG 0.5,-0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 96 | 16 Secs (16 Secs) [==>] | [1] | | |



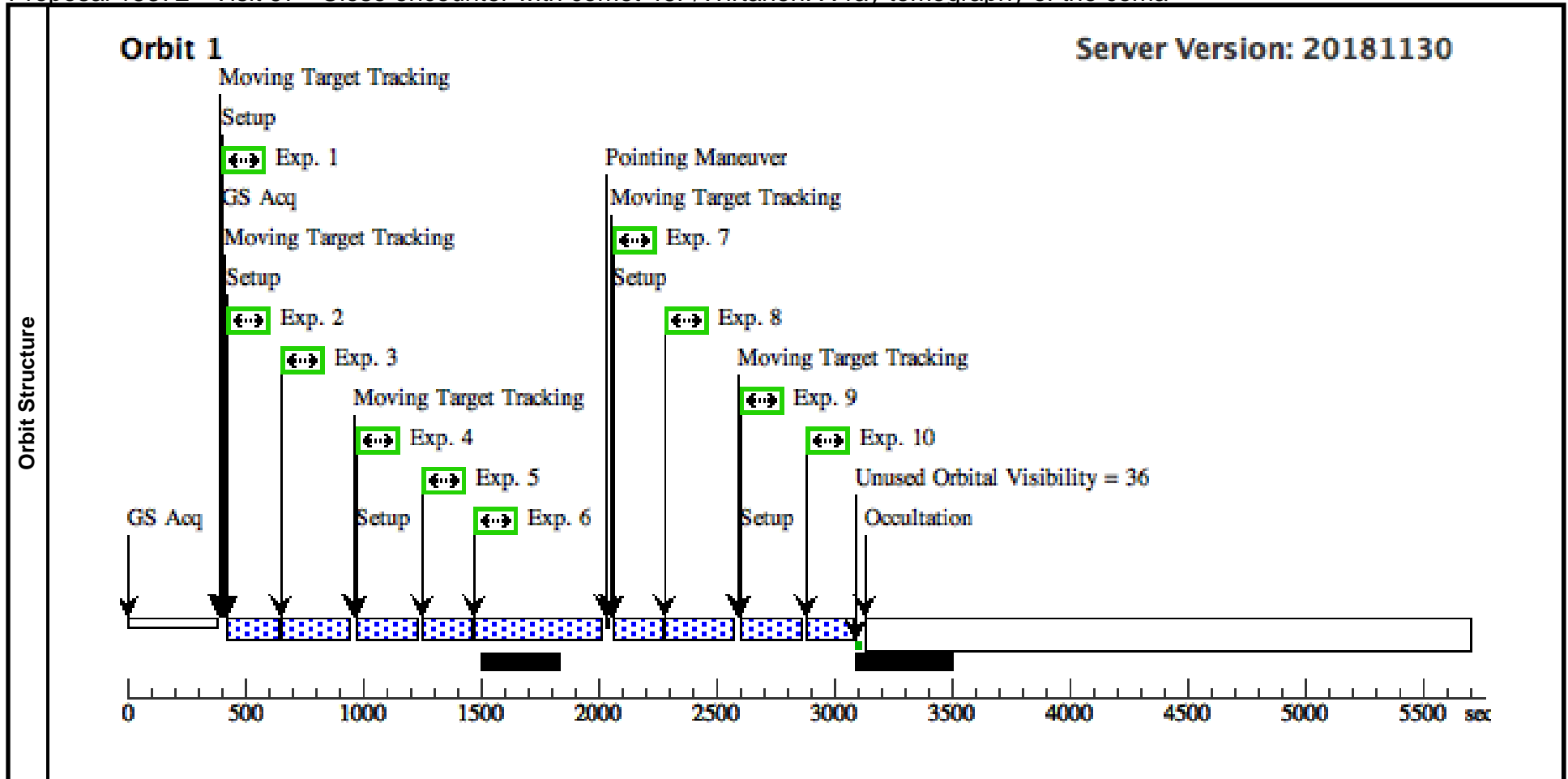
Proposal 15372 - Visit 97 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

Tue Dec 11 13:00:35 GMT 2018

| Visit | Proposal 15372, Visit 97, implementation Diagnostic Status: Error Scientific Instruments: WFC3/UVIS, S/C Special Requirements: AFTER 96 BY 1.8 Orbits TO 2.2 Orbits; VISIBILITY INTERVAL 52.2 M | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|--|---------|---------|---------|---------|--------------|--------------|-----|---------------------|--|--|--|--|--|-------|---|--|--|--|--|
| | (Exposure 1 (Sequence 1-10 Non-Int in Visit 97)) Error (Form): Illegal selection: S/C. (Exposure 1 (Sequence 1-10 Non-Int in Visit 97)) Error (Form): POINTING is not a valid selection. (Exposure 1 (Sequence 1-10 Non-Int in Visit 97)) Error (Form): This attribute is not allowed to have this value: Aperture = V1 It is an Available option and cannot normally be used in a GO proposal. (Exposure 1 (Sequence 1-10 Non-Int in Visit 97)) Error (Form): This attribute is not allowed to have this value: Config = S/C It is an Available option and cannot normally be used in a GO proposal. (Exposure 1 (Sequence 1-10 Non-Int in Visit 97)) Error (Form): This attribute is not allowed to have this value: Mode = POINTING It is an Available option and cannot normally be used in a GO proposal. (Exposure 1 (Sequence 1-10 Non-Int in Visit 97)) Error (Form): V1 is not a valid selection. (Exposure 1 (Sequence 1-10 Non-Int in Visit 97) special requirements) Error (Form): Special Requirement SAA CONTOUR is not allowed for this exposure. (Exposure 8 (Sequence 1-10 Non-Int in Visit 97)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (Exposure 9 (Sequence 1-10 Non-Int in Visit 97)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. | | | | | | | | | | | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Solar System Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>46P-WIRTANEN-V95-88</td> <td>TYPE=COMET,Q=1.0553630774931 66,E=0.6588037968649246,I=11.7470 4707224198,O=82.15726140588575, W=356.3511839946604,T=12-DEC- 2018:22:32:54,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=4.413849486972766E-9,A2=- 2.468375212501156E- 9,A3=1.314459236229123E-9</td> <td></td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | (3) | 46P-WIRTANEN-V95-88 | TYPE=COMET,Q=1.0553630774931 66,E=0.6588037968649246,I=11.7470 4707224198,O=82.15726140588575, W=356.3511839946604,T=12-DEC- 2018:22:32:54,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=4.413849486972766E-9,A2=- 2.468375212501156E- 9,A3=1.314459236229123E-9 | | | | | EARTH | Comments: not ground based parallax since the target is further away. Description=Comet 46P/Wirtanen Extended=YES | | | | |
| | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | | | | | | | | | | | | |
| (3) | 46P-WIRTANEN-V95-88 | TYPE=COMET,Q=1.0553630774931 66,E=0.6588037968649246,I=11.7470 4707224198,O=82.15726140588575, W=356.3511839946604,T=12-DEC- 2018:22:32:54,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=4.413849486972766E-9,A2=- 2.468375212501156E- 9,A3=1.314459236229123E-9 | | | | | EARTH | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

Proposal 15372 - Visit 97 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|---|---|---|---------------------------------------|---------------------------------|-------|
| | 1 | (3) 46P-WIRTANE N-V95-88 | S/C, POINTING, V1 | | | | POS TARG 71.6242, -4.8821; SAA CONTOUR 29; GS ACQ SCENARI O BASE1BE | Sequence 1-10 Non-I nt in Visit 97 | 1 Secs (1 Secs) [==>] | [1] |
| | 2 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | NEW OBSET; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 97 | 10 Secs (10 Secs) [==>] | [1] | |
| | 3 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 97 | 90 Secs (90 Secs) [==>] | [1] | |
| | 4 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 97 | 90 Secs (90 Secs) [==>] | [1] | |
| | 5 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 97 | 16 Secs (16 Secs) [==>] | [1] | |
| | 6 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 97 | 340 Secs (340 Secs) [==>] | [1] | |
| | 7 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 97 | 16 Secs (16 Secs) [==>] | [1] | |
| | 8 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 97 | 90 Secs (90 Secs) [==>] | [1] | |
| | 9 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,0.5; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 97 | 90 Secs (90 Secs) [==>] | [1] | |
| 10 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,0.5; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 97 | 10 Secs (10 Secs) [==>] | [1] | | |



Proposal 15372 - Visit 98 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

Tue Dec 11 13:00:35 GMT 2018

| Visit | Proposal 15372, Visit 98, implementation Diagnostic Status: Error Scientific Instruments: WFC3/UVIS, S/C Special Requirements: AFTER 97 BY 0.8 Orbits TO 1.2 Orbits; VISIBILITY INTERVAL 52.2 M | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|---|--|---------|---------|---------|---------|--------------|--------------|-----|---------------------|--|--|--|--|--|-------|---|--|--|--|--|
| | (Exposure 1 (Sequence 1-10 Non-Int in Visit 98)) Error (Form): Illegal selection: S/C. (Exposure 1 (Sequence 1-10 Non-Int in Visit 98)) Error (Form): POINTING is not a valid selection. (Exposure 1 (Sequence 1-10 Non-Int in Visit 98)) Error (Form): This attribute is not allowed to have this value: Aperture = V1 It is an Available option and cannot normally be used in a GO proposal. (Exposure 1 (Sequence 1-10 Non-Int in Visit 98)) Error (Form): This attribute is not allowed to have this value: Config = S/C It is an Available option and cannot normally be used in a GO proposal. (Exposure 1 (Sequence 1-10 Non-Int in Visit 98)) Error (Form): This attribute is not allowed to have this value: Mode = POINTING It is an Available option and cannot normally be used in a GO proposal. (Exposure 1 (Sequence 1-10 Non-Int in Visit 98)) Error (Form): V1 is not a valid selection. (Exposure 1 (Sequence 1-10 Non-Int in Visit 98) special requirements) Error (Form): Special Requirement SAA CONTOUR is not allowed for this exposure. (Exposure 8 (Sequence 1-10 Non-Int in Visit 98)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (Exposure 9 (Sequence 1-10 Non-Int in Visit 98)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. | | | | | | | | | | | | | | | | | | | | |
| Diagnostics | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| Solar System Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(3)</td> <td>46P-WIRTANEN-V95-88</td> <td>TYPE=COMET,Q=1.0553630774931 66,E=0.6588037968649246,I=11.7470 4707224198,O=82.15726140588575, W=356.3511839946604,T=12-DEC- 2018:22:32:54,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=4.413849486972766E-9,A2=- 2.468375212501156E- 9,A3=1.314459236229123E-9</td> <td></td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table> | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | (3) | 46P-WIRTANEN-V95-88 | TYPE=COMET,Q=1.0553630774931 66,E=0.6588037968649246,I=11.7470 4707224198,O=82.15726140588575, W=356.3511839946604,T=12-DEC- 2018:22:32:54,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=4.413849486972766E-9,A2=- 2.468375212501156E- 9,A3=1.314459236229123E-9 | | | | | EARTH | Comments: not ground based parallax since the target is further away. Description=Comet 46P/Wirtanen Extended=YES | | | | |
| | # | Name | Level 1 | Level 2 | Level 3 | Window | Ephem Center | | | | | | | | | | | | | | |
| (3) | 46P-WIRTANEN-V95-88 | TYPE=COMET,Q=1.0553630774931 66,E=0.6588037968649246,I=11.7470 4707224198,O=82.15726140588575, W=356.3511839946604,T=12-DEC- 2018:22:32:54,TTimeScale=TDB,EQ UINOX=J2000,EPOCH=24-DEC- 2018:00:00:00,EpochTimeScale=TDB, A1=4.413849486972766E-9,A2=- 2.468375212501156E- 9,A3=1.314459236229123E-9 | | | | | EARTH | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

Proposal 15372 - Visit 98 - Close encounter with comet 46P/Wirtanen: X-ray tomography of the coma

| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time (Total)/[Actual Dur.] | Orbit |
|-----------|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|--|--|---|---------------------------------------|---------------------------------|-------|
| | 1 | (3) 46P-WIRTANE N-V95-88 | S/C, POINTING, V1 | | | | POS TARG 71.6242, -4.8821; SAA CONTOUR 29; GS ACQ SCENARI O BASE1BE | Sequence 1-10 Non-I nt in Visit 98 | 1 Secs (1 Secs) [==>] | [1] |
| | 2 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | NEW OBSET; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 98 | 16 Secs (16 Secs) [==>] | [1] | |
| | 3 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 98 | 90 Secs (90 Secs) [==>] | [1] | |
| | 4 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 98 | 90 Secs (90 Secs) [==>] | [1] | |
| | 5 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 98 | 10 Secs (10 Secs) [==>] | [1] | |
| | 6 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 98 | 340 Secs (340 Secs) [==>] | [1] | |
| | 7 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F689M | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,-0.5 ; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 98 | 10 Secs (10 Secs) [==>] | [1] | |
| | 8 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,-0.5 ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 98 | 90 Secs (90 Secs) [==>] | [1] | |
| | 9 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS-QUAD-SUB | FQ387N | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,-0.5 ; NEW ALIGNMENT ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 98 | 90 Secs (90 Secs) [==>] | [1] | |
| 10 | (3) 46P-WIRTANE N-V95-88 | WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB | F845M | CR-SPLIT=NO; FLASH=12 | POS TARG -0.5,-0.5 ; EXP PCS MODE G YRO | Sequence 1-10 Non-I nt in Visit 98 | 16 Secs (16 Secs) [==>] | [1] | | |

