



10456 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Cycle: 14, Proposal Category: GO
(Availability Mode: AVAILABLE)

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> | <i>E-Mail</i> |
|---------------------------------|---|-------------------------------|
| Dr. Paul D. Feldman (PI) | The Johns Hopkins University | pdf@pha.jhu.edu |
| Dr. Michael F. A'Hearn (CoI) | University of Maryland | ma@astro.umd.edu |
| Dr. Harold A. Weaver (CoI) | The Johns Hopkins University Applied Physics Laboratory | hal.weaver@jhuapl.edu |
| Dr. Michael J. Belton (CoI) | Belton Space Exploration Initiatives | michaelbelton@beltonspace.com |
| Dr. Karen J. Meech (CoI) | University of Hawaii | meech@ifa.hawaii.edu |

VISITS

| <i>Visit</i> | <i>Targets</i> | <i>Configurations</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|--------------------|-----------------------|--------------------|-------------------------------|-------------------------------|
| 01 | (1) COMET-TEMPEL-1 | ACS/HRC | 1 | 05-Jul-2005 21:32:16.0 | yes |
| 02 | (1) COMET-TEMPEL-1 | ACS/SBC | 1 | 05-Jul-2005 21:32:21.0 | yes |
| 03 | (1) COMET-TEMPEL-1 | ACS/HRC | 1 | 05-Jul-2005 21:32:27.0 | yes |
| 04 | (1) COMET-TEMPEL-1 | ACS/SBC | 1 | 05-Jul-2005 21:32:30.0 | yes |
| 05 | (1) COMET-TEMPEL-1 | ACS/HRC | 1 | 16-Jun-2005 16:56:40.0 | yes |
| 06 | (1) COMET-TEMPEL-1 | ACS/HRC | 1 | 05-Jul-2005 21:32:38.0 | yes |

Proposal 10456 - Overview

| <i>Visit</i> | <i>Targets</i> | <i>Configurations</i> | <i>Orbits Used</i> | <i>Last Orbit Planner Run</i> | <i>OP Current with Visit?</i> |
|--------------|----------------------------|-----------------------|--------------------|-------------------------------|-------------------------------|
| 07 | (1) COMET-TEMPEL-1 DARK | ACS/SBC S/C | 1 | 05-Jul-2005 21:32:42.0 | yes |
| 08 | (1) COMET-TEMPEL-1 | ACS/HRC | 1 | 05-Jul-2005 21:32:48.0 | yes |
| 09 | (1) COMET-TEMPEL-1 DARK | ACS/SBC S/C | 1 | 05-Jul-2005 21:32:55.0 | yes |
| 10 | (1) COMET-TEMPEL-1 | ACS/HRC | 1 | 05-Jul-2005 21:33:00.0 | yes |
| 11 | (1) COMET-TEMPEL-1 | ACS/SBC | 1 | 05-Jul-2005 21:33:03.0 | yes |
| 12 | (1) COMET-TEMPEL-1 | ACS/HRC | 1 | 05-Jul-2005 21:33:08.0 | yes |
| 13 | (1) COMET-TEMPEL-1 | ACS/SBC | 1 | 05-Jul-2005 21:33:11.0 | yes |
| 22 | (1) COMET-TEMPEL-1 | ACS/HRC | 1 | 05-Jul-2005 21:33:16.0 | yes |
| A5 | (1) COMET-TEMPEL-1 | ACS/HRC | 1 | 05-Jul-2005 21:33:42.0 | yes |

15 Total Orbits Used

ABSTRACT

This program consists of a series of observations of periodic comet 9P/Tempel 1 in conjunction with NASA's Deep Impact mission. This mission is a spacecraft that will release a 360 kg impactor into the nucleus of the comet on July 4, 2005. Our primary objective is to study the generation and evolution of the gaseous coma resulting from this impact. We had planned to obtain ultraviolet spectra with STIS before, during, and following the impact. A secondary objective was to obtain wide-band images of the visual outburst resulting from the impact. With STIS now unavailable, the requisite images can be taken

with the ACS/HRC. In addition, the spectroscopic data can be obtained using two of the prism modes of the ACS; HRC/PR200L can replace STIS/G230L and SBC/PR130L can replace G140L.

OBSERVING DESCRIPTION

The primary objective of this program will be to observe comet 9P/Tempel 1 at the time of the Deep Impact mission delivery of the impactor to the surface of the comet. This event occurs on July 4, 2005. For measurements of the evolution of the gaseous coma, we require 13 orbits. These will be performed in visits of contiguous orbits on 4 separate days: prior to impact within one rotation period (42 hours) (4 orbits); impact (or as close as possible in time - 5 orbits); one day after impact (2 orbits); and one week after impact (2 orbits). Each orbit, with the exception of the impact orbit, will consist of both images and prism spectra, alternating HRC and SBC cameras to cover the entire ultraviolet spectral range. The impact orbit will consist solely of HRC imaging, which will give us the highest spatial resolution images of the comet possible from Earth.

At the time of impact, which is one day before perihelion, the comet will have a heliocentric distance, r , of 1.506 AU, and a geocentric distance, Δ , of 0.894 AU. Based on previous apparitions, the total V magnitude will be ~ 10 while the nuclear V magnitude, based on an estimated effective radius of 2.5-3.0 km, will be between 17 and 18. From the ACS Exposure Time Calculator, for $V=17.5$ the full well of

Proposal 10456 - Overview

the HRC CCD will be reached in an exposure time of 390 seconds. At this time it is not possible to assess the brightness of any jets that may be present. However, jets or coma structure with surface brightness 10^{-4} per pixel of the nucleus will easily be detectable above the sky background and detector dark levels.

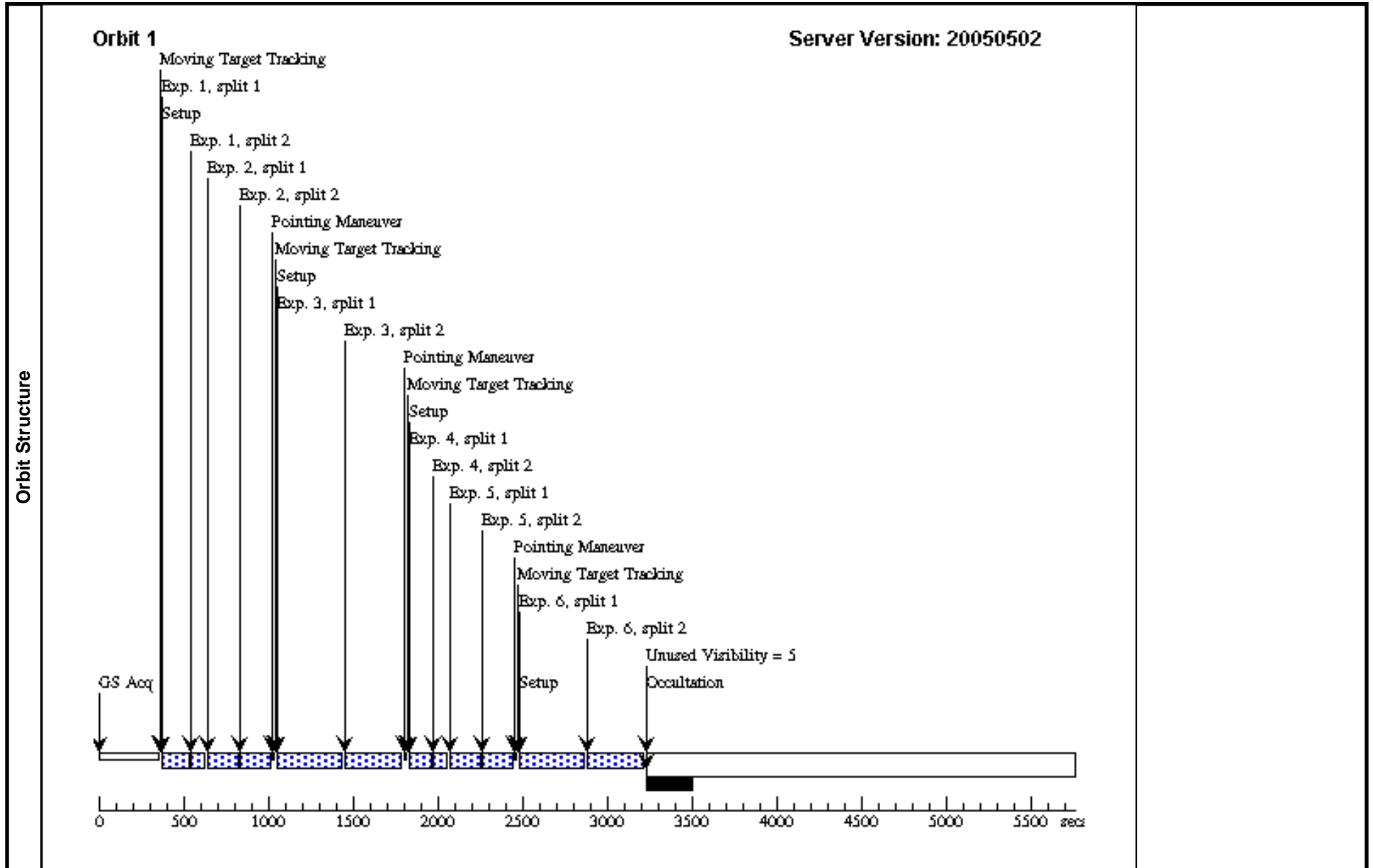
REAL TIME JUSTIFICATION

As described above, these observations are being coordinated with and need to be made at the time of the active phase of the Deep Impact mission in early July 2005.

Proposal 10456 - Visit 01 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:46 GMT 2005

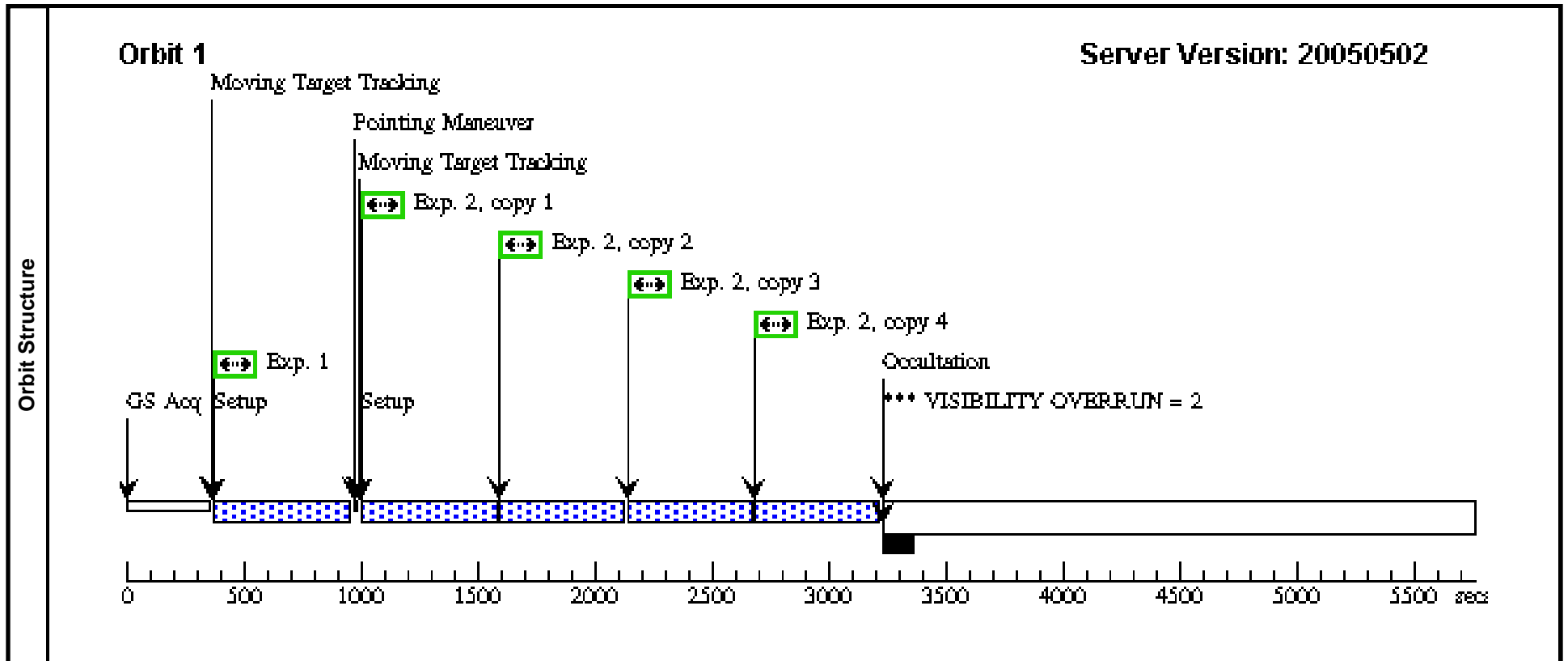
| Visit | Proposal 10456, Visit 01 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: PCS MODE FINE; ORIENT 124.4D TO 124.4 D; BETWEEN 01-JUL-2005:18:00:00 AND 03-JUL-2005:06:00:00; GROUP 01,02,03,04 WITHIN 36.0H Comments: Visits 1-4 should be scheduled 24 to 48 hours before the encounter of Deep Impact with comet 9P/Tempel 1. They provide a baseline for the change in activity produced by the impact of the spacecraft impactor with the comet. Orient 304.4 added w/ guide star pair 0554500783F30554500362F1. | | | | | | | | | |
|-----------|--|-------------------------|---|----------------------|---------------|--------------|--|--------|--|-------|
| | Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | | | |
| | (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.52959823731397,O=68.94087646342231,W=178.8383777556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06. | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | short image, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0; GSPAIR 0554500783F30554500362F1 | | 80.0 Secs [=>(Split 1)] [=>(Split 2)] | [1] |
| | 2 | long image, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0 | | 280.0 Secs [=>(Split 1)] [=>(Split 2)] | [1] |
| | 3 | spectrum, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0,0 | | 600.0 Secs [=>(Split 1)] [=>(Split 2)] | [1] |
| | 4 | short image, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 80.0 Secs [=>(Split 1)] [=>(Split 2)] | [1] |
| | 5 | long image, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 280.0 Secs [=>(Split 1)] [=>(Split 2)] | [1] |
| | 6 | spectrum, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0.5,0 | | 600.0 Secs [=>(Split 1)] [=>(Split 2)] | [1] |



Proposal 10456 - Visit 02 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:47 GMT 2005

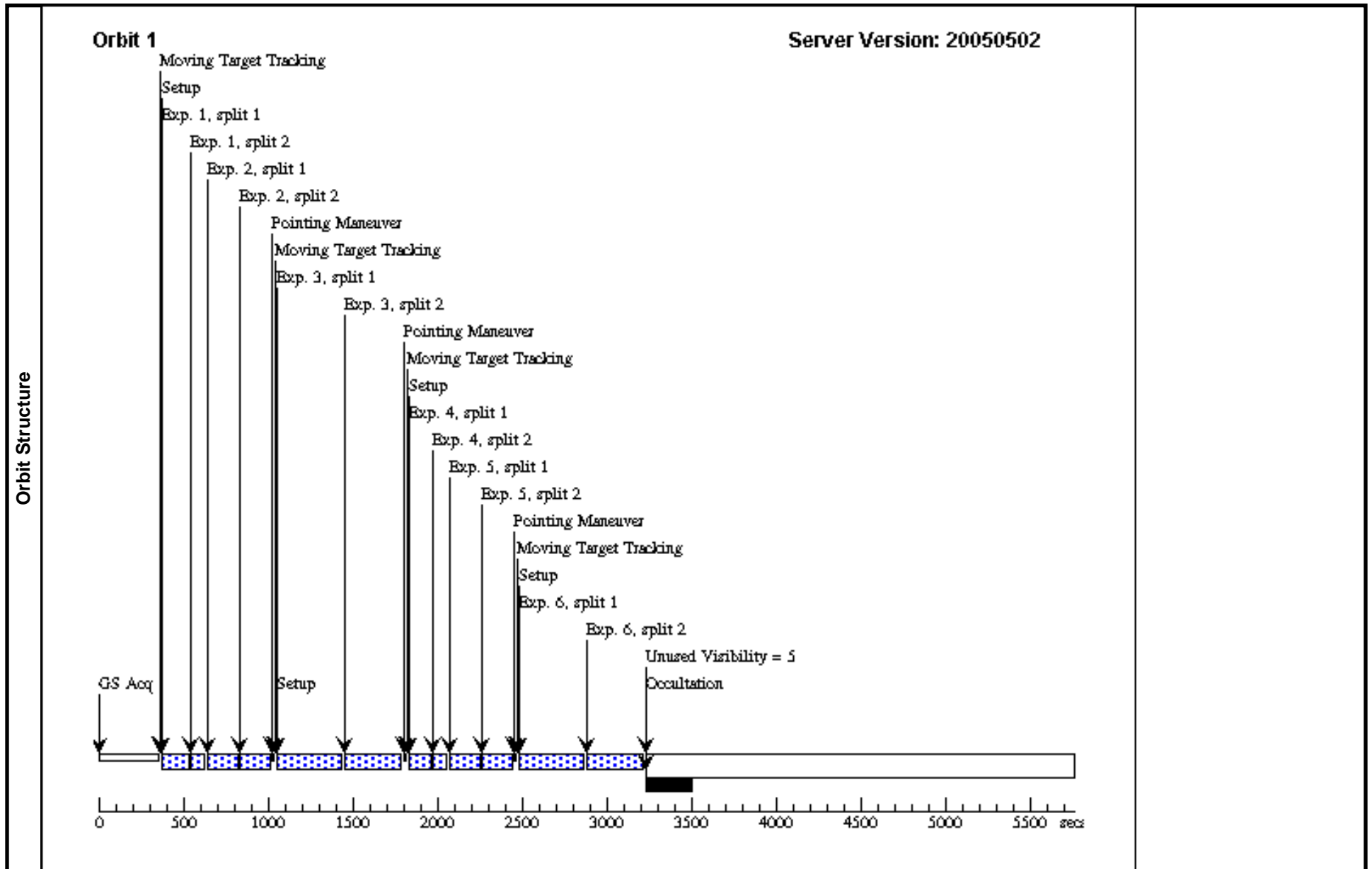
| | | | | | | | | | | |
|--|--|--------------------|---|-----------------------------|----------------------|---------------------|-------------------------------------|---------------|--|--------------|
| Visit | Proposal 10456, Visit 02 Diagnostic Status: Warning Scientific Instruments: ACS/SBC Special Requirements: PCS MODE FINE; ORIENT 125.609D TO 125.609 D; BETWEEN 01-JUL-2005:18:00:00 AND 03-JUL-2005:06:00:00; GROUP 02,01,03,04 WITHIN 36.0H <i>Comments: Visits 1-4 should be scheduled 24 to 48 hours before the encounter of Deep Impact with comet 9P/Tempel 1. They provide a baseline for the change in activity produced by the impact of the spacecraft impactor with the comet. Orient 125.609 w/ guide star pair 0554500783F30554500362F1 added.</i> | | | | | | | | | |
| | (Visit 02) Warning: VISIBILITY OVERRUN | | | | | | | | | |
| Diagnostics | | | | | | | | | | |
| | | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | | | | |
| | (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | | | | |
| <i>Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06</i> | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | SBC image | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | F140LP | | GSPAIR 055450078 3F30554500362F1 | | 500.0 Secs [=>509.0 Secs] | [1] |
| 2 | spectrum | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | | PR130L | | | | 500.0 Secs X 4 [=>509.0 Secs (Copy 1)] [=>509.0 Secs (Copy 2)] [=>509.0 Secs (Copy 3)] [=>509.0 Secs (Copy 4)] | [1] |



Proposal 10456 - Visit 03 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:48 GMT 2005

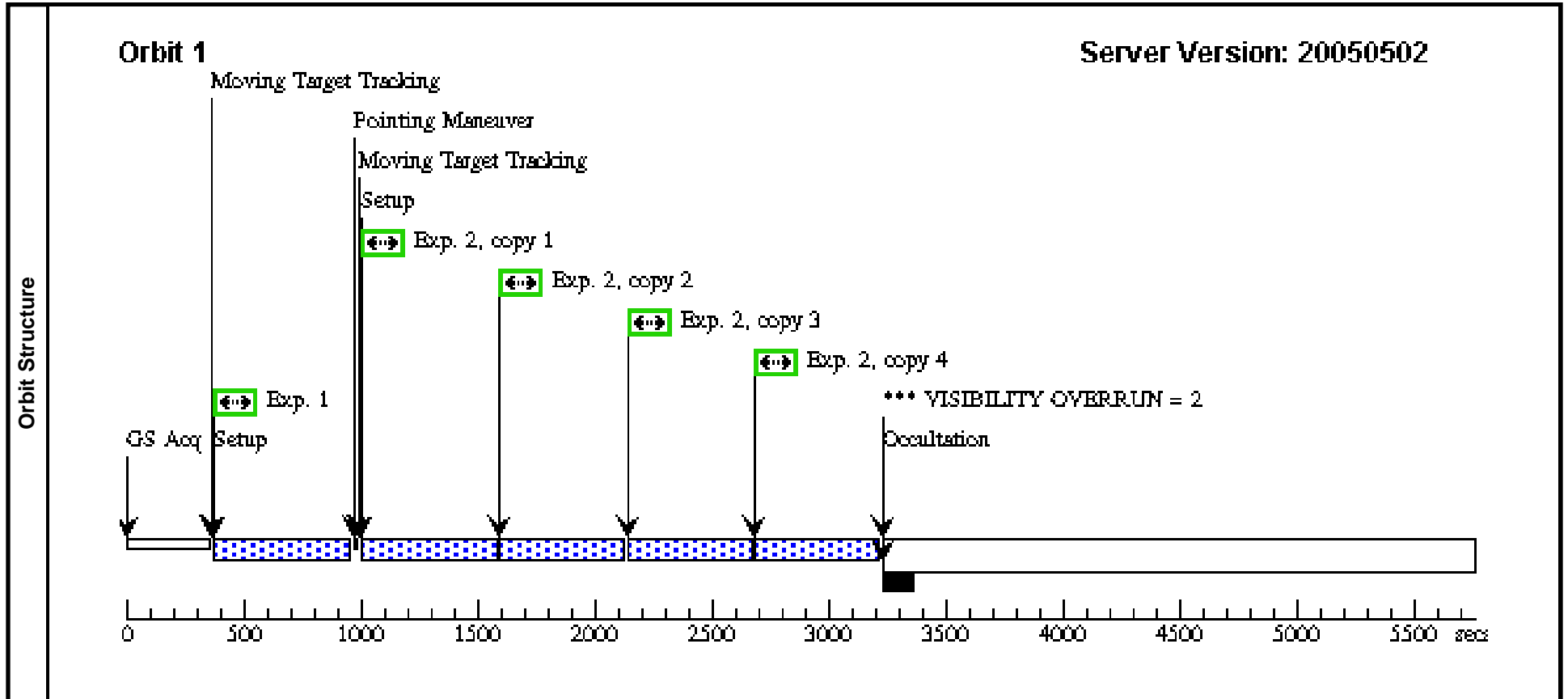
| Visit | Proposal 10456, Visit 03 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: PCS MODE FINE; ORIENT 111.555D TO 111.555 D; BETWEEN 01-JUL-2005:18:00:00 AND 03-JUL-2005:06:00:00; GROUP 03,01,02,04 WITHIN 36.0H Comments: Visits 1-4 should be scheduled 24 to 48 hours before the encounter of Deep Impact with comet 9P/Tempel 1. They provide a baseline for the change in activity produced by the impact of the spacecraft impactor with the comet. | | | | | | | | | |
|-----------|--|-------------------------|---|----------------------|---------------|--------------|--|--------|--|-------|
| | Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | | | |
| | (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.52959823731397,O=68.94087646342231,W=178.8383777556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06. | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | short image, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0; GSPAIR 055450135 3F20554501301F1 | | 80.0 Secs [=>(Split 1)] [=>(Split 2)] | [1] |
| | 2 | long image, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0 | | 280.0 Secs [=>(Split 1)] [=>(Split 2)] | [1] |
| | 3 | spectrum, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0,0 | | 600.0 Secs [=>(Split 1)] [=>(Split 2)] | [1] |
| | 4 | short image, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 80.0 Secs [=>(Split 1)] [=>(Split 2)] | [1] |
| | 5 | long image, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 280.0 Secs [=>(Split 1)] [=>(Split 2)] | [1] |
| | 6 | spectrum, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0.5,0 | | 600.0 Secs [=>(Split 1)] [=>(Split 2)] | [1] |



Proposal 10456 - Visit 04 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:49 GMT 2005

| | | | | | | | | | | |
|---|---|----------------|---|-----------------------------|----------------------|---------------------|-------------------------------------|---------------|--|--------------|
| Visit | Proposal 10456, Visit 04 Diagnostic Status: Warning Scientific Instruments: ACS/SBC Special Requirements: PCS MODE FINE; ORIENT 96.9D TO 96.9 D; BETWEEN 01-JUL-2005:18:00:00 AND 03-JUL-2005:06:00:00; GROUP 04,01,02,03 WITHIN 36.0H Comments: Visits 1-4 should be scheduled 24 to 48 hours before the encounter of Deep Impact with comet 9P/Tempel 1. They provide a baseline for the change in activity produced by the impact of the spacecraft impactor with the comet. Orient 111.5-111.555 for gspair 0554501353F20554501301F1 added by PC. | | | | | | | | | |
| | (Visit 04) Warning: VISIBILITY OVERRUN | | | | | | | | | |
| Diagnostics | | | | | | | | | | |
| | | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | | | | |
| | (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | | | | |
| Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06 | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | SBC image | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | F140LP | | GSPAIR 055450130 1F10554501231F3 | | 500.0 Secs [=>509.0 Secs] | [1] |
| | 2 | spectrum | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | PR130L | | | | 500.0 Secs X 4 [=>509.0 Secs (Copy 1)] [=>509.0 Secs (Copy 2)] [=>509.0 Secs (Copy 3)] [=>509.0 Secs (Copy 4)] | [1] |



Proposal 10456 - Visit 05 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:49 GMT 2005

| Visit | Proposal 10456, Visit 05 | | | | | | | | | |
|----------------------|---|-------------------------|---|-------------------------|---------------|--------------|---|--------|---|-------|
| | Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: PCS MODE FINE; ORIENT 104.43D TO 104.43 D; BETWEEN 04-JUL-2005:05:00:00 AND 04-JUL-2005:07:00:00; VISIBILITY INTERVAL 3360 S Comments: This set of observations must take place during the HST orbit when the impactor of Deep Impact is expected to hit comet 9P/Tempel 1. Orient 104.43 with gspair 0554601273F10554600926F3 added by pc; visibility = 3360. Changed visit to remove POS TARGs--now 19 CR-SPLIT pairs at same position. | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | | | | |
| | (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,1=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06 | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | | POS TARG 0,0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 2 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | | POS TARG 0,0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 3 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | | POS TARG 0,0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 4 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | | POS TARG 0,0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 5 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | | POS TARG 0,0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 6 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | | POS TARG 0,0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 7 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | | POS TARG 0,0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |

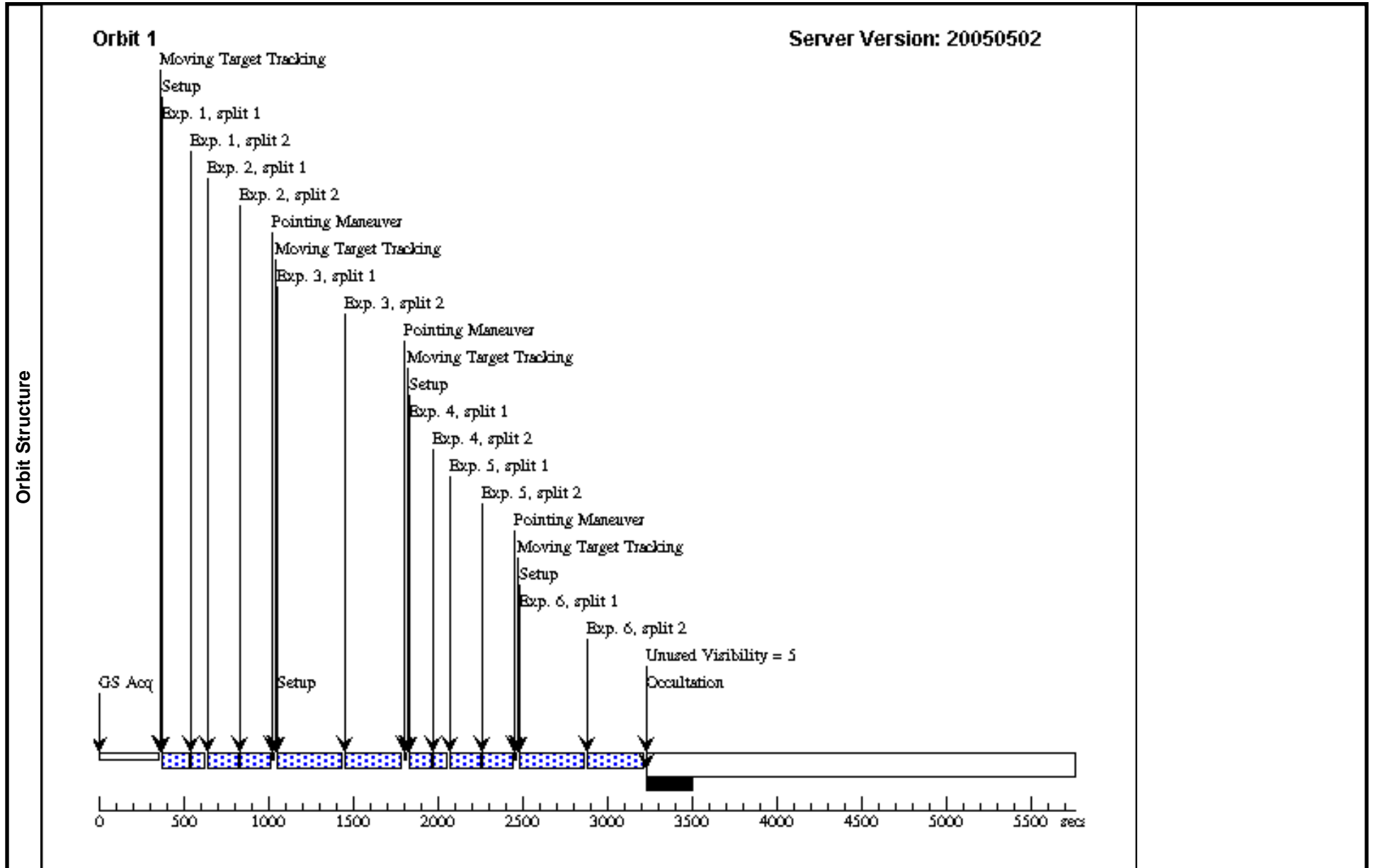
Proposal 10456 - Visit 05 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
|-----------------------|-------|-------------------------|----------------------|-------------------------|--------------|--|--------|---|-------|
| Exposures (continued) | 8 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0.0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 9 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0.0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 10 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0.0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 11 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0.0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 12 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0.0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 13 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0.0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 14 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0.0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 15 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0.0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 16 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0.0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 17 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0.0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 18 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0.0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 19 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0.0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |

Proposal 10456 - Visit 06 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:50 GMT 2005

| | | | | | | | | | | |
|------------------|---|-------------------------|---|-----------------------------|----------------------|---------------------|---|---------------|--|--------------|
| Visit | Proposal 10456, Visit 06 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: PCS MODE FINE; ORIENT 108.5D TO 110.9 D; BETWEEN 04-JUL-2005:06:30:00 AND 04-JUL-2005:08:00:00 Comments: Visits 6-9 should immediately follow the impact orbit (Visit 5). Added on-orbit tested roll and gs-pair: 0554600926F30554601372F1. Four different tested rolls for the two guide stars: 110.0 (1372 no double seen), 108.5 (pairs, double detected both stars), 104.43 (star 926--no double seen), and 97.0 (1372 double detected). Roll range of 108.5-110.9 is a compromise to ensure selection and minimize double detection probability on secondary star 1372, which had the widest binary, but was not seen at roll 110.0. Star 0926 had a companion at 5mas which is evaluated as less significant. | | | | | | | | | |
| | Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | | | |
| (1) | | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06 | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | short image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0; GSPAIR 055460092 6F30554601372F1 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 2 | long image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0 | | 280.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 3 | spectrum, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0,0 | | 600.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 4 | short image, position 2 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 5 | long image, position 2 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 280.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 6 | spectrum, position 2 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0.5,0 | | 600.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |



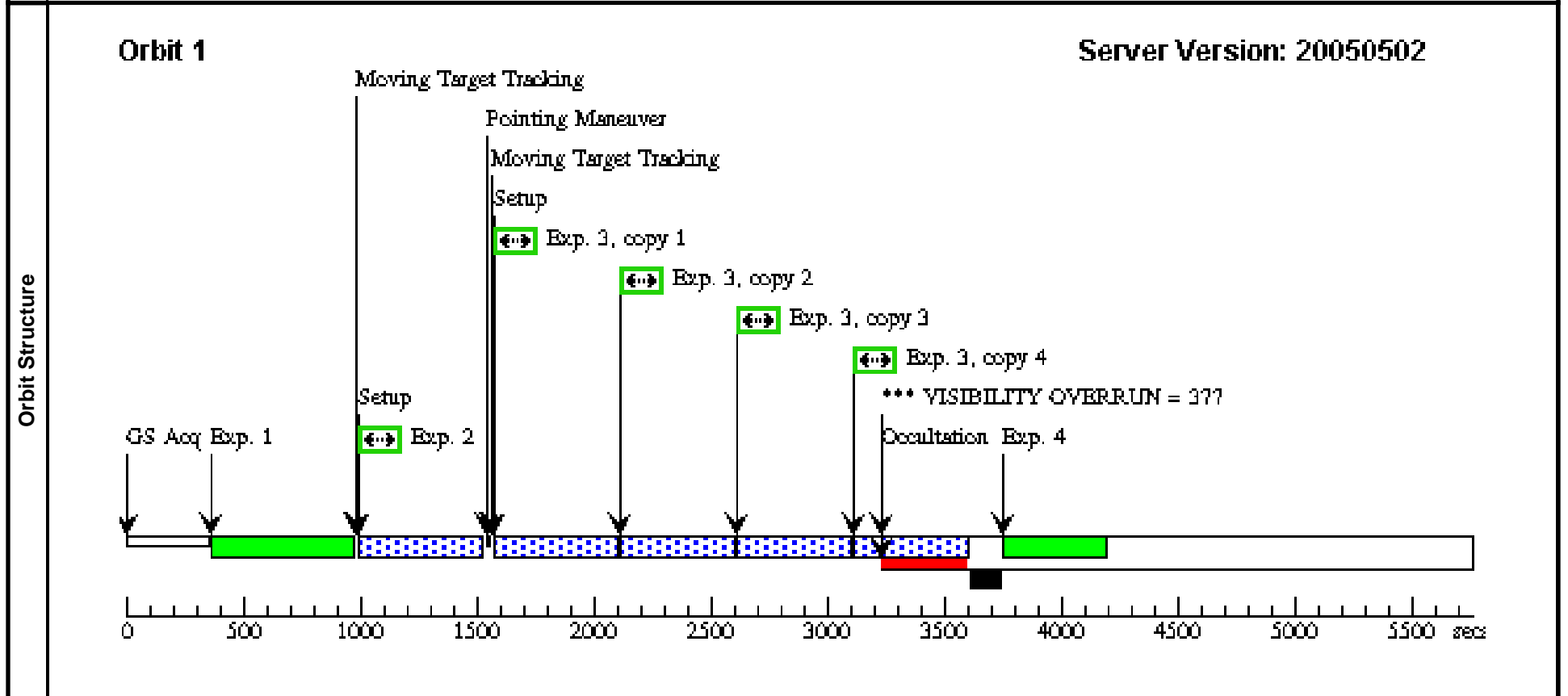
Proposal 10456 - Visit 07 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:50 GMT 2005

| Visit | Proposal 10456, Visit 07 Diagnostic Status: Error Scientific Instruments: ACS/SBC, S/C Special Requirements: PCS MODE FINE; ORIENT 104.973D TO 104.973 D; BETWEEN 04-JUL-2005:08:00:00 AND 04-JUL-2005:09:30:00 Comments: Visits 6-9 should immediately follow the impact orbit (Visit 5). PC added gspair 0554601411F10554601319F3 at orient 104.973. PC added spec-com for SBC operation; reduced exposure time to accommodate spec-com. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|---|----------------------|---------------|--------------|--|----------------------|--|-------|---|-------|--------|----------------------|---------------|--------------|---------------|--------|-------------------------|---|---|--------------------|------|-----------------|--|--|--|----------------------|---------------------|-----|--|--|--|--|--|--|--|--|--|--|---|-----------|--------------------|---------------------|--------|--|---------------------------------|----------------------|---------------------|-----|---|--|--|--|--|--|--|--|--|--|---|----------|--------------------|---------------------|--------|--|--|----------------------|--|-----|---|--|--|--|--|--|--|--|--|--|
| | Diagnosics (SpecCom EJ10456UP (07.001) special requirements) Error: Special Requirement SAA CONTOUR is not allowed for this exposure. (SpecCom EJ10456DOWN (07.004) special requirements) Error: Special Requirement SAA CONTOUR is not allowed for this exposure. (Visit 07) Warning: VISIBILITY OVERRUN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>COMET-TEMPEL-1</td> <td>TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,1=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06. | | | | | | | | | | # | Name | Level 1 | Level 2 | Level 3 | Window | (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,1=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Name | Level 1 | Level 2 | Level 3 | Window | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,1=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>#</th> <th>Label</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/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SpecCom EJ 10456UP</td> <td>DARK</td> <td>S/C, DATA, NONE</td> <td></td> <td></td> <td>SAA CONTOUR 28; SPEC COM INSTR EJ10456UP</td> <td>Sequence 1-4 Non-Int</td> <td>620.0 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> Comments: Exp. time = 60 (OP->LV) + 560 (LV->HV). SQL for ACS: SI start = WFHROPER, end=WFHROBS; DOOR start/end = OPEN; HCOR start/end = HOLD; WCOR start/end = HOLD; LAMP start/end = HOLD. </td> </tr> <tr> <td>2</td> <td>SBC image</td> <td>(1) COMET-TEMPEL-1</td> <td>ACS/SBC, ACCUM, SBC</td> <td>F140LP</td> <td></td> <td>GSPAIR 0554601411F10554601319F3</td> <td>Sequence 1-4 Non-Int</td> <td>460.0 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> Comments: Exposure time reduced from 500 s to accommodate spec-com. </td> </tr> <tr> <td>3</td> <td>spectrum</td> <td>(1) COMET-TEMPEL-1</td> <td>ACS/SBC, ACCUM, SBC</td> <td>PR130L</td> <td></td> <td></td> <td>Sequence 1-4 Non-Int</td> <td>460.0 Secs X 4 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)]</td> <td>[1]</td> </tr> <tr> <td colspan="10"> Comments: Exposure time reduced from 500 s to accommodate spec-com. </td> </tr> </tbody> </table> | | | | | | | | | | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | 1 | SpecCom EJ 10456UP | DARK | S/C, DATA, NONE | | | SAA CONTOUR 28; SPEC COM INSTR EJ10456UP | Sequence 1-4 Non-Int | 620.0 Secs [==>] | [1] | Comments: Exp. time = 60 (OP->LV) + 560 (LV->HV). SQL for ACS: SI start = WFHROPER, end=WFHROBS; DOOR start/end = OPEN; HCOR start/end = HOLD; WCOR start/end = HOLD; LAMP start/end = HOLD. | | | | | | | | | | 2 | SBC image | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | F140LP | | GSPAIR 0554601411F10554601319F3 | Sequence 1-4 Non-Int | 460.0 Secs [==>] | [1] | Comments: Exposure time reduced from 500 s to accommodate spec-com. | | | | | | | | | | 3 | spectrum | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | PR130L | | | Sequence 1-4 Non-Int | 460.0 Secs X 4 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] | [1] | Comments: Exposure time reduced from 500 s to accommodate spec-com. | | | | | | | | | |
| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SpecCom EJ 10456UP | DARK | S/C, DATA, NONE | | | SAA CONTOUR 28; SPEC COM INSTR EJ10456UP | Sequence 1-4 Non-Int | 620.0 Secs [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: Exp. time = 60 (OP->LV) + 560 (LV->HV). SQL for ACS: SI start = WFHROPER, end=WFHROBS; DOOR start/end = OPEN; HCOR start/end = HOLD; WCOR start/end = HOLD; LAMP start/end = HOLD. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SBC image | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | F140LP | | GSPAIR 0554601411F10554601319F3 | Sequence 1-4 Non-Int | 460.0 Secs [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: Exposure time reduced from 500 s to accommodate spec-com. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | spectrum | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | PR130L | | | Sequence 1-4 Non-Int | 460.0 Secs X 4 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: Exposure time reduced from 500 s to accommodate spec-com. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exposures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Proposal 10456 - Visit 07 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

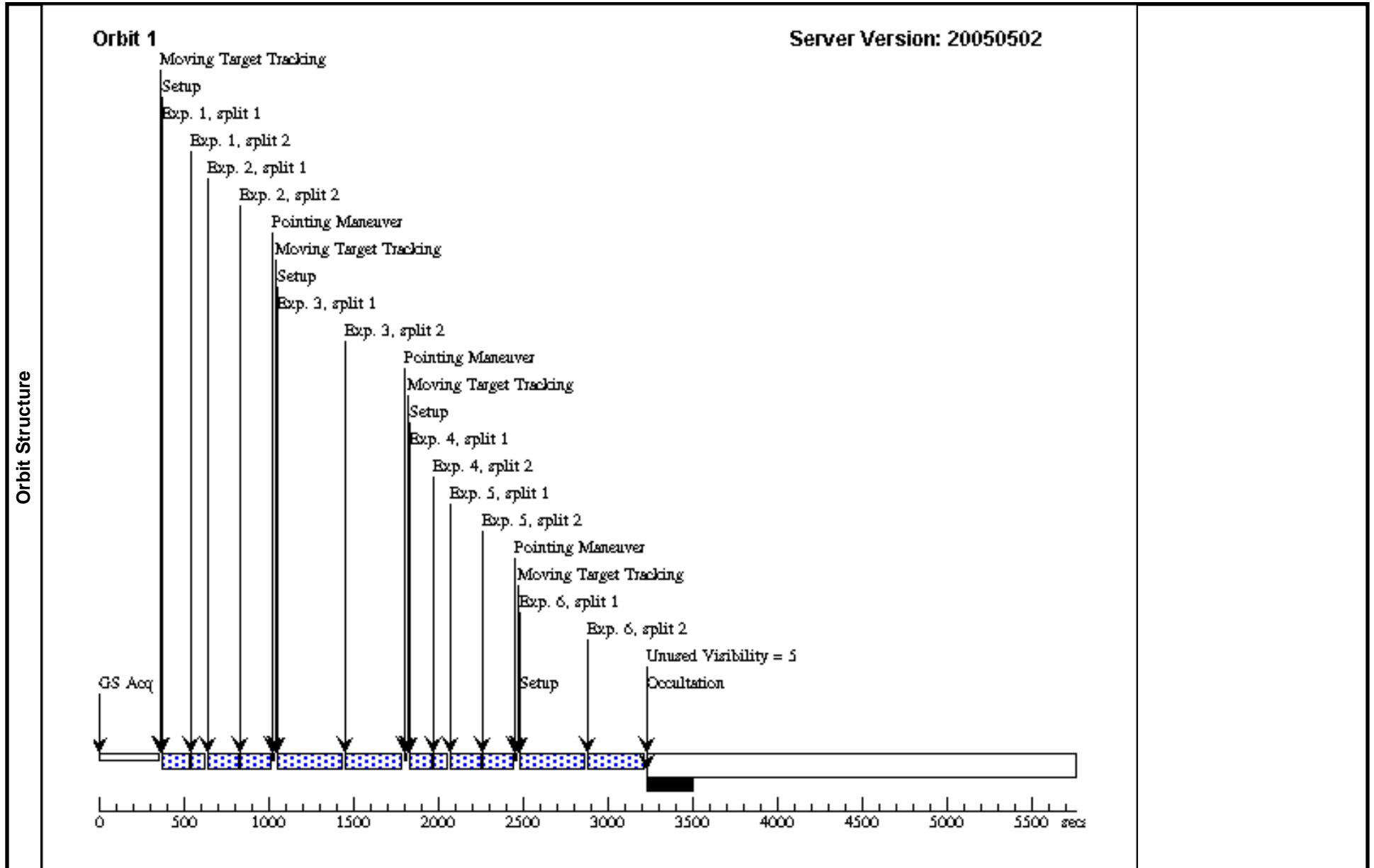
| Exposures (continued) | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
|---|---|-----------------------|--------|----------------------|---------------|--------------|---|--------|-------------------------|-------|
| | 4 | SpecCom EJ 10456DOW N | DARK | S/C, DATA, NONE | | | SAA CONTOUR 28; Sequence 1-4 Non-In SPEC COM INSTR ^t EJ10456DOWN | | 455.0 Secs [==>] | [1] |
| <i>Comments: Exp. time = 405 (HV->LV) + 50 (LV->OP). SQL for ACS: SI start = WFHROBS, end=WFHROPER; DOOR start/end = OPEN; HCOR start/end = HOLD; WCOR start/end = HOLD; LAMP start/end = HOLD.</i> | | | | | | | | | | |



Proposal 10456 - Visit 08 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:51 GMT 2005

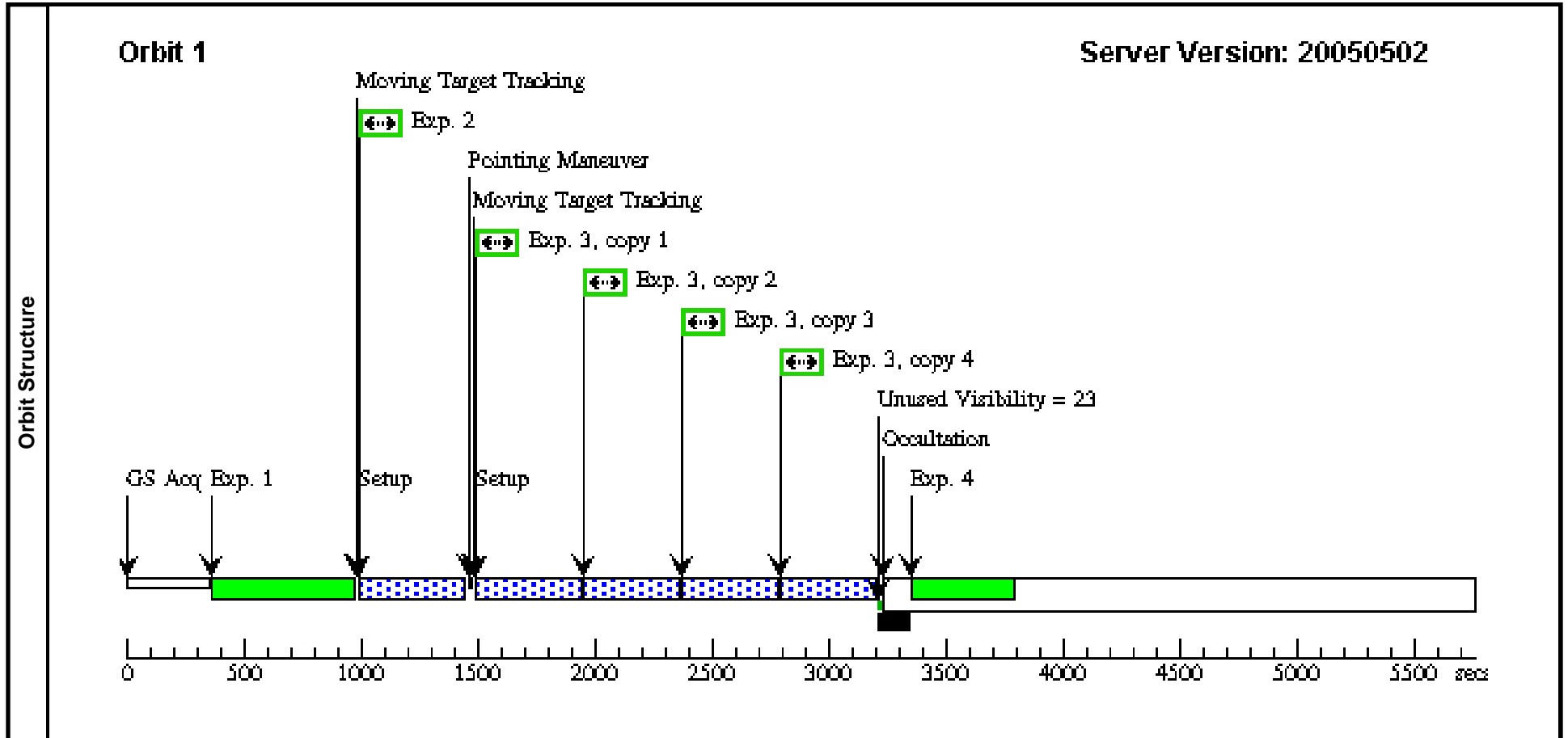
| Visit | Proposal 10456, Visit 08 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: PCS MODE FINE; ORIENT 108.113D TO 108.113 D; BETWEEN 04-JUL-2005:09:45:00 AND 04-JUL-2005:11:15:00 Comments: Visits 6-9 should immediately follow the impact orbit (Visit 5). PC added gs pair 0554601122F20554601151F3 at roll 108.113. | | | | | | | | | |
|-----------|---|---|--------------------|----------------------|---|--------------|--|--------|--|-------|
| | Solar System Targets | | | | | | | | | |
| # | Name | Level 1 | Level 2 | Level 3 | Window | | | | | |
| (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E =0.5175675503080862,I=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL- 2005:07:35:18,EQUINOX=J2000,EPOCH= 11-MAR-2005:00:00:00,A1=5.2733E- 10,A2=-2.2057E-12,A3=1.77644E-10 | | | Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06 | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | short image, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0; GSPAIR 055460112 2F20554601151F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 2 | long image, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0 | | 280.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 3 | spectrum, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0,0 | | 600.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 4 | short image, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 5 | long image, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 280.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 6 | spectrum, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0.5,0 | | 600.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |



Proposal 10456 - Visit 09 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:51 GMT 2005

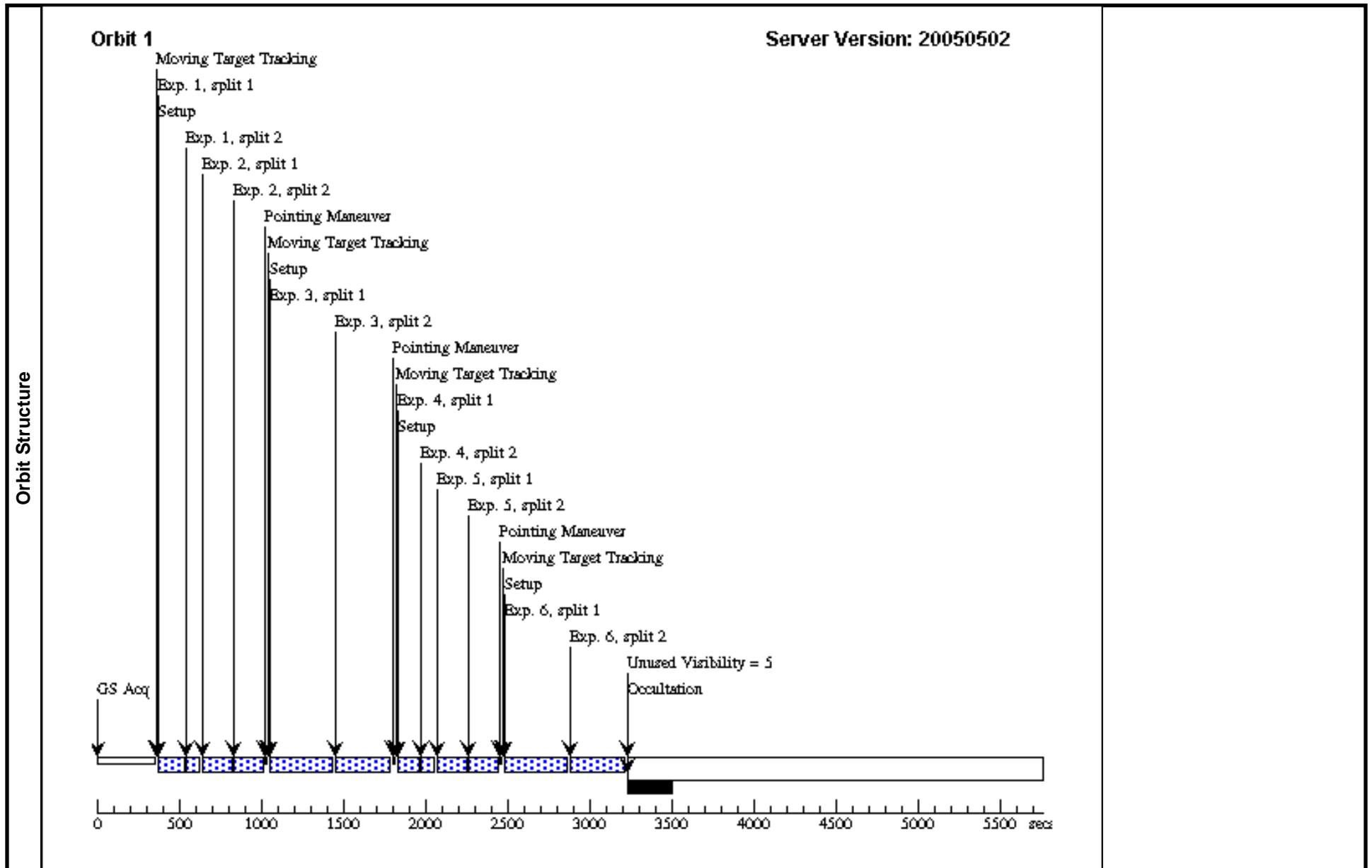
| Visit | Proposal 10456, Visit 09 Diagnostic Status: Error Scientific Instruments: ACS/SBC, S/C Special Requirements: PCS MODE FINE; ORIENT 109.75D TO 109.75 D; BETWEEN 04-JUL-2005:11:15:00 AND 04-JUL-2005:12:45:00 Comments: Visits 6-9 should immediately follow the impact orbit (Visit 5). PC added spec-com for SBC operation. Added on-orbit tested orient and guide star pair 0554601319F3000000000F0 . | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|----------------------|---------------|--------------|---|--------------------------|--|-------|---|-------|--------|----------------------|---------------|--------------|---------------|--------|-------------------------|---|---|--------------------|------|-----------------|--|--|---|---|---------------------|-----|--|--|--|--|--|--|--|--|--|--|---|---------------|--------------------|---------------------|--------|--|---------------------------------|--------------------------|---------------------|-----|--|--|--|--|--|--|--|--|--|--|---|--------------|--------------------|---------------------|--------|--|--|--------------------------|--|-----|--|--|--|--|--|--|--|--|--|--|---|----------------------|------|-----------------|--|--|---|---|---------------------|-----|--|--|--|--|--|--|--|--|--|--|
| | Diagnosics (SpecCom EJ10456UP (09.001) special requirements) Error: Special Requirement SAA CONTOUR is not allowed for this exposure. (SpecCom EJ10456DOWN (09.004) special requirements) Error: Special Requirement SAA CONTOUR is not allowed for this exposure. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>COMET-TEMPEL-1</td> <td>TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06 . | | | | | | | | | | # | Name | Level 1 | Level 2 | Level 3 | Window | (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | # | Name | Level 1 | Level 2 | Level 3 | Window | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>#</th> <th>Label</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/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SpecCom EJ 10456UP</td> <td>DARK</td> <td>S/C, DATA, NONE</td> <td></td> <td></td> <td>SAA CONTOUR 28; Sequence 1-4 Non-In SPEC COM INSTR EJ10456UP</td> <td>t</td> <td>620.0 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10">Comments: Exp. time = 60 (OP->LV) + 560 (LV->HV). SQL for ACS: SI start = WFHROPER, end=WFHROBS; DOOR start/end = OPEN; HCOR start/end = HOLD; WCOR start/end = HOLD; LAMP start/end = HOLD.</td> </tr> <tr> <td>2</td> <td>SBC image L-1</td> <td>(1) COMET-TEMPEL-1</td> <td>ACS/SBC, ACCUM, SBC</td> <td>F140LP</td> <td></td> <td>GSPAIR 055460131 9F3000000000F0</td> <td>Sequence 1-4 Non-In t</td> <td>380.0 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10">Comments: Exposure times reduced from 500s to accommodate SBC transitions.</td> </tr> <tr> <td>3</td> <td>spectrum L-1</td> <td>(1) COMET-TEMPEL-1</td> <td>ACS/SBC, ACCUM, SBC</td> <td>PR130L</td> <td></td> <td></td> <td>Sequence 1-4 Non-In t</td> <td>380.0 Secs X 4 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)]</td> <td>[1]</td> </tr> <tr> <td colspan="10">Comments: Exposure time reduced from 500 s to accommodate SBC transitions.</td> </tr> <tr> <td>4</td> <td>SpecCom EJ 10456DOWN</td> <td>DARK</td> <td>S/C, DATA, NONE</td> <td></td> <td></td> <td>SAA CONTOUR 28; Sequence 1-4 Non-In SPEC COM INSTR EJ10456DOWN</td> <td>t</td> <td>455.0 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10">Comments: Exp. time = 405 (HV->LV) + 50 (LV->OP). SQL for ACS: SI start = WFHROBS, end=WFHROPER; DOOR start/end = OPEN; HCOR start/end = HOLD; WCOR start/end = HOLD; LAMP start/end = HOLD.</td> </tr> </tbody> </table> | | | | | | | | | | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | 1 | SpecCom EJ 10456UP | DARK | S/C, DATA, NONE | | | SAA CONTOUR 28; Sequence 1-4 Non-In SPEC COM INSTR EJ10456UP | t | 620.0 Secs [==>] | [1] | Comments: Exp. time = 60 (OP->LV) + 560 (LV->HV). SQL for ACS: SI start = WFHROPER, end=WFHROBS; DOOR start/end = OPEN; HCOR start/end = HOLD; WCOR start/end = HOLD; LAMP start/end = HOLD. | | | | | | | | | | 2 | SBC image L-1 | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | F140LP | | GSPAIR 055460131 9F3000000000F0 | Sequence 1-4 Non-In t | 380.0 Secs [==>] | [1] | Comments: Exposure times reduced from 500s to accommodate SBC transitions. | | | | | | | | | | 3 | spectrum L-1 | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | PR130L | | | Sequence 1-4 Non-In t | 380.0 Secs X 4 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] | [1] | Comments: Exposure time reduced from 500 s to accommodate SBC transitions. | | | | | | | | | | 4 | SpecCom EJ 10456DOWN | DARK | S/C, DATA, NONE | | | SAA CONTOUR 28; Sequence 1-4 Non-In SPEC COM INSTR EJ10456DOWN | t | 455.0 Secs [==>] | [1] | Comments: Exp. time = 405 (HV->LV) + 50 (LV->OP). SQL for ACS: SI start = WFHROBS, end=WFHROPER; DOOR start/end = OPEN; HCOR start/end = HOLD; WCOR start/end = HOLD; LAMP start/end = HOLD. | | | | | | | | | |
| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | SpecCom EJ 10456UP | DARK | S/C, DATA, NONE | | | SAA CONTOUR 28; Sequence 1-4 Non-In SPEC COM INSTR EJ10456UP | t | 620.0 Secs [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: Exp. time = 60 (OP->LV) + 560 (LV->HV). SQL for ACS: SI start = WFHROPER, end=WFHROBS; DOOR start/end = OPEN; HCOR start/end = HOLD; WCOR start/end = HOLD; LAMP start/end = HOLD. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | SBC image L-1 | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | F140LP | | GSPAIR 055460131 9F3000000000F0 | Sequence 1-4 Non-In t | 380.0 Secs [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: Exposure times reduced from 500s to accommodate SBC transitions. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | spectrum L-1 | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | PR130L | | | Sequence 1-4 Non-In t | 380.0 Secs X 4 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: Exposure time reduced from 500 s to accommodate SBC transitions. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | SpecCom EJ 10456DOWN | DARK | S/C, DATA, NONE | | | SAA CONTOUR 28; Sequence 1-4 Non-In SPEC COM INSTR EJ10456DOWN | t | 455.0 Secs [==>] | [1] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: Exp. time = 405 (HV->LV) + 50 (LV->OP). SQL for ACS: SI start = WFHROBS, end=WFHROPER; DOOR start/end = OPEN; HCOR start/end = HOLD; WCOR start/end = HOLD; LAMP start/end = HOLD. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exposures | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Proposal 10456 - Visit 10 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:51 GMT 2005

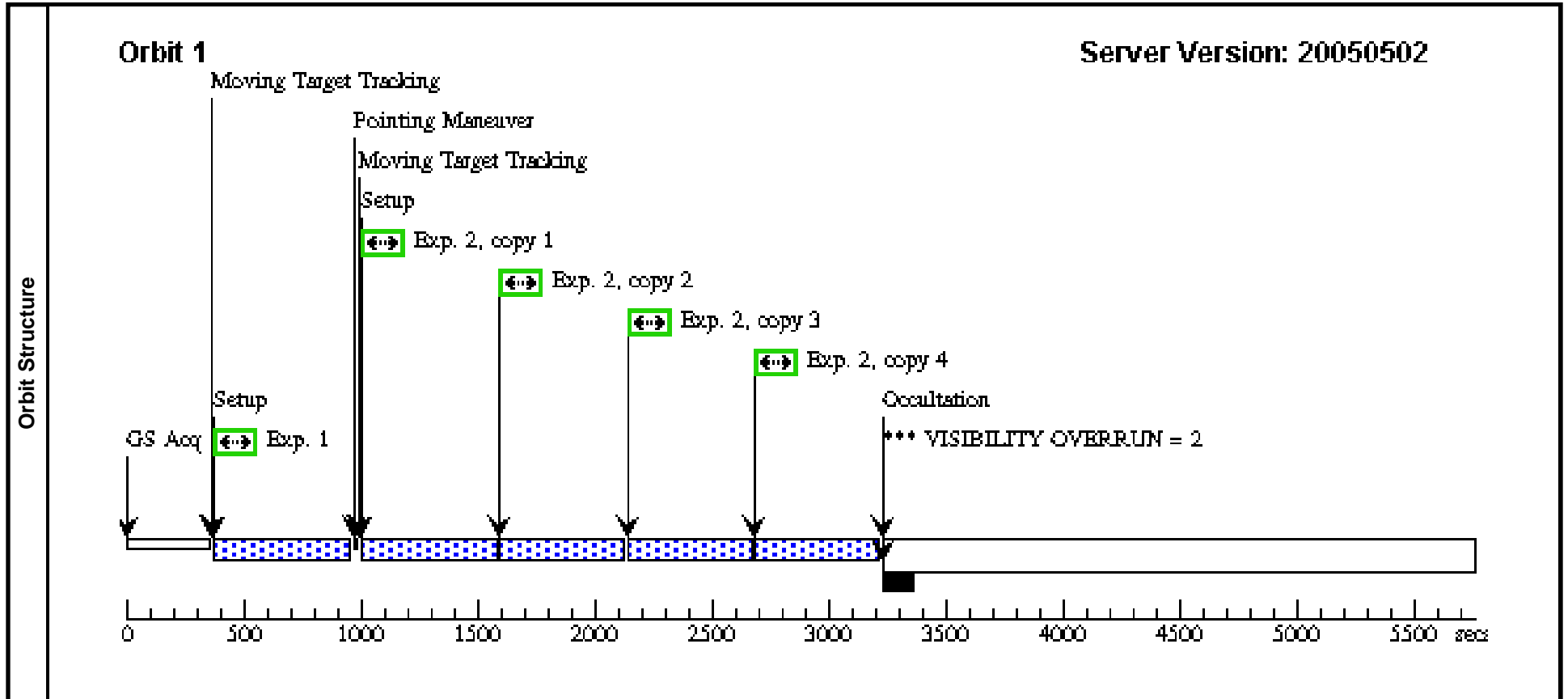
| Visit | Proposal 10456, Visit 10 | | | | | | | | | |
|----------------------|--|-------------------------|---|----------------------|---------------|--------------|---|--------|--|-------|
| | Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: PCS MODE FINE; ORIENT 109.571D TO 109.571 D; BETWEEN 04-JUL-2005:23:00:00 AND 05-JUL-2005:11:00:00 Comments: Visits 10-11 should follow the impact orbit (Visit 5) by approximately 1 day. PC added gs pair 0554601451F10554900965F3 at roll 109.571. | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | | | | |
| | (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06 | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | short image, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0; GSPAIR 055460145 1F10554900965F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 2 | long image, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0 | | 280.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 3 | spectrum, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0,0 | | 600.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 4 | short image, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 5 | long image, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 280.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 6 | spectrum, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0.5,0 | | 600.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |



Proposal 10456 - Visit 11 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:52 GMT 2005

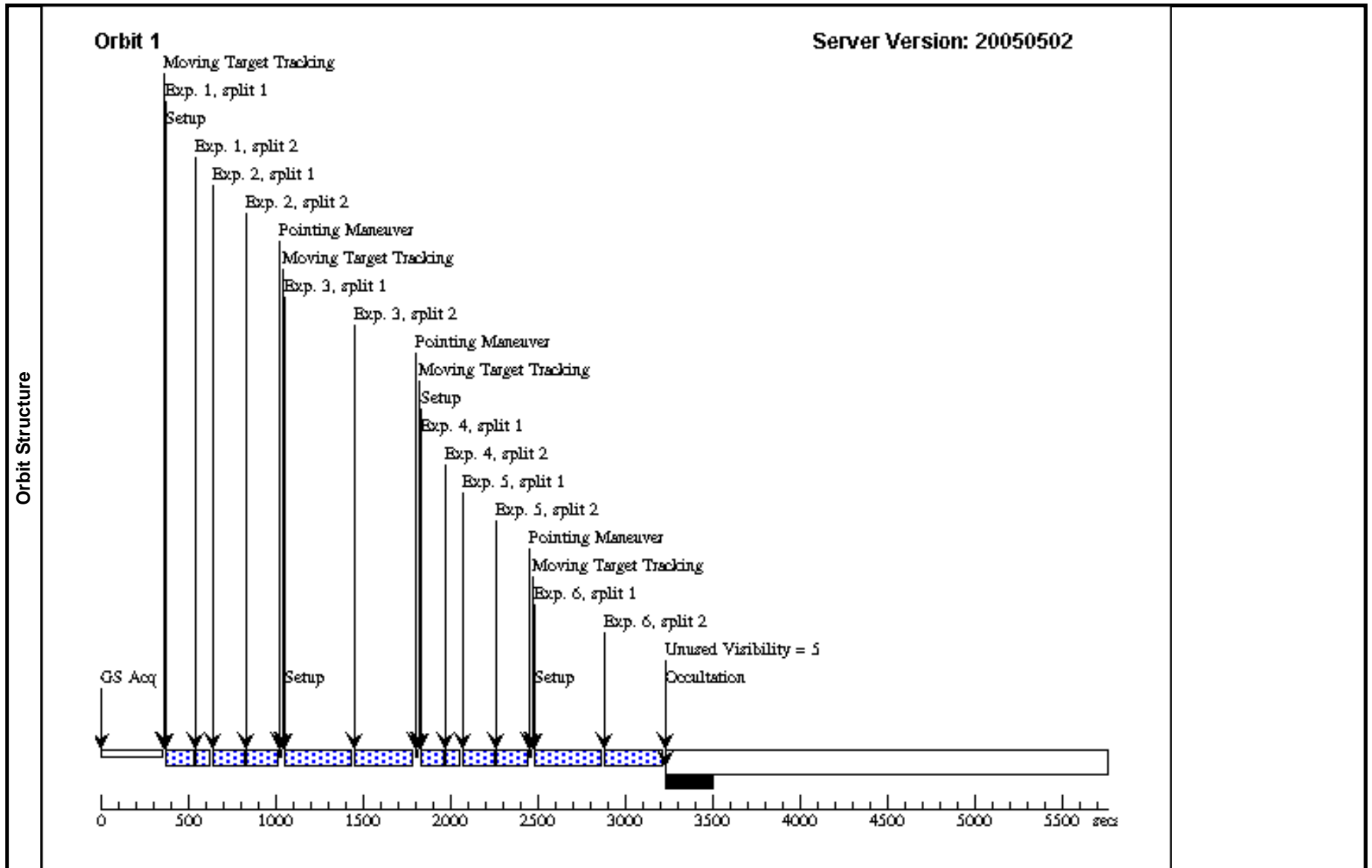
| | | | | | | | | | | |
|---|---|----------------|---|-----------------------------|----------------------|---------------------|-------------------------------------|---------------|--|--------------|
| Visit | <p>Proposal 10456, Visit 11</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/SBC</p> <p>Special Requirements: PCS MODE FINE; ORIENT 103.987D TO 103.987 D; BETWEEN 05-JUL-2005:01:30:00 AND 05-JUL-2005:03:15:00</p> <p><i>Comments: Visits 10-11 should follow the impact orbit (Visit 5) by approximately 1 day. PC added gs pair 0554601287F10554900965F3 at roll 103.987.</i></p> | | | | | | | | | |
| | <p>(Visit 11) Warning: VISIBILITY OVERRUN</p> | | | | | | | | | |
| Diagnostics | | | | | | | | | | |
| | | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | | | | |
| | (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | | | | |
| <p><i>Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06</i></p> | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | SBC image | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | F140LP | | GSPAIR 055460128 7F10554900965F3 | | 500.0 Secs [=>509.0 Secs] | [1] |
| | 2 | spectrum | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | PR130L | | | | 500.0 Secs X 4 [=>509.0 Secs (Copy 1)] [=>509.0 Secs (Copy 2)] [=>509.0 Secs (Copy 3)] [=>509.0 Secs (Copy 4)] | [1] |
| | | | | | | | | | | |



Proposal 10456 - Visit 12 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:52 GMT 2005

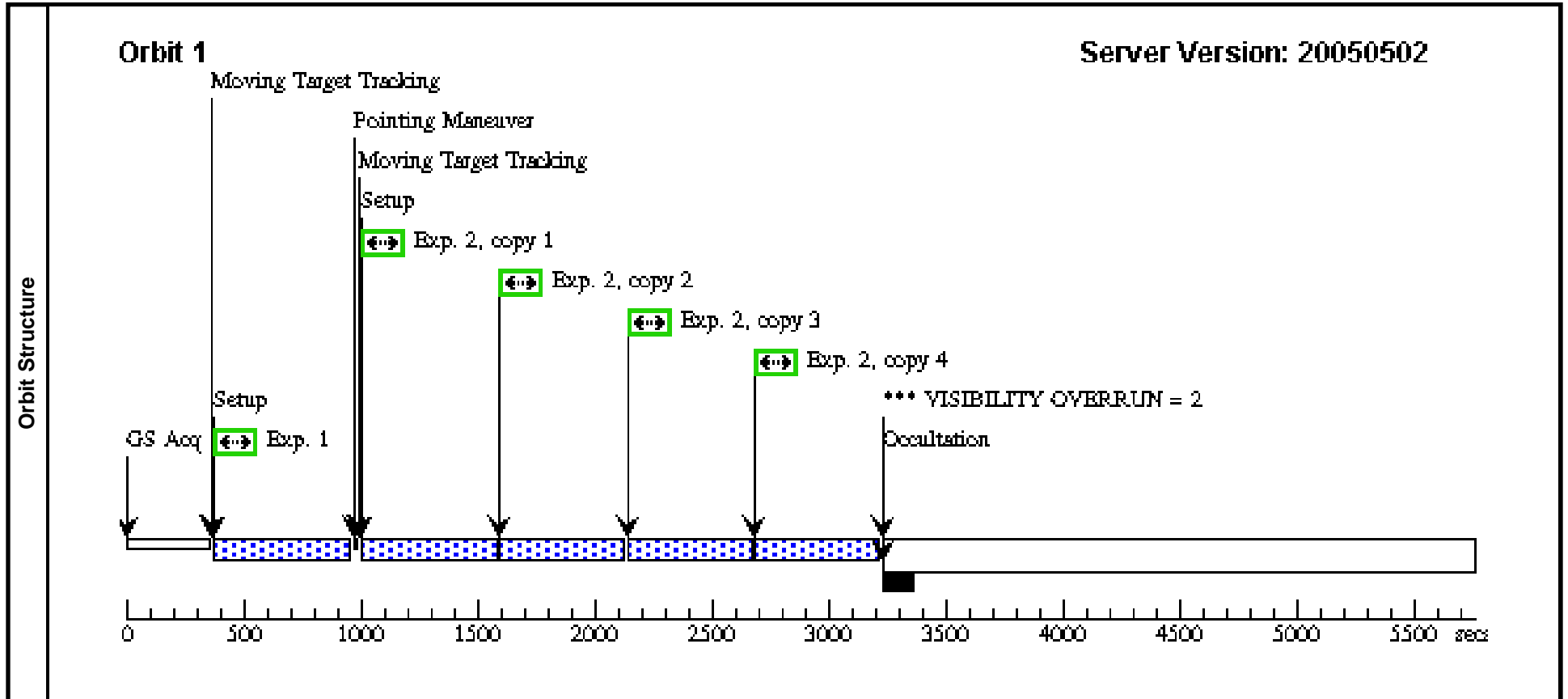
| Visit | Proposal 10456, Visit 12 | | | | | | | | | |
|----------------------|--|-------------------------|---|----------------------|---------------|--------------|---|--------|--|-------|
| | Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: PCS MODE FINE; ORIENT 100.0D TO 100.0 D; BETWEEN 11-JUL-2005:17:00:00 AND 11-JUL-2005:19:00:00 Comments: Visits 12-13 should follow the impact orbit (Visit 5) by approximately 1 week. PC added gs pair 0555900281F20555600071F1 at roll 100.0 | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | | | | |
| | (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06 | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | short image, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0; GSPAIR 055590028 1F20555600071F1 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 2 | long image, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0 | | 280.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 3 | spectrum, position 1 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0,0 | | 600.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 4 | short image, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 5 | long image, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 280.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 6 | spectrum, position 2 | (1) COMET-TEMPEL-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0.5,0 | | 600.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |



Proposal 10456 - Visit 13 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:53 GMT 2005

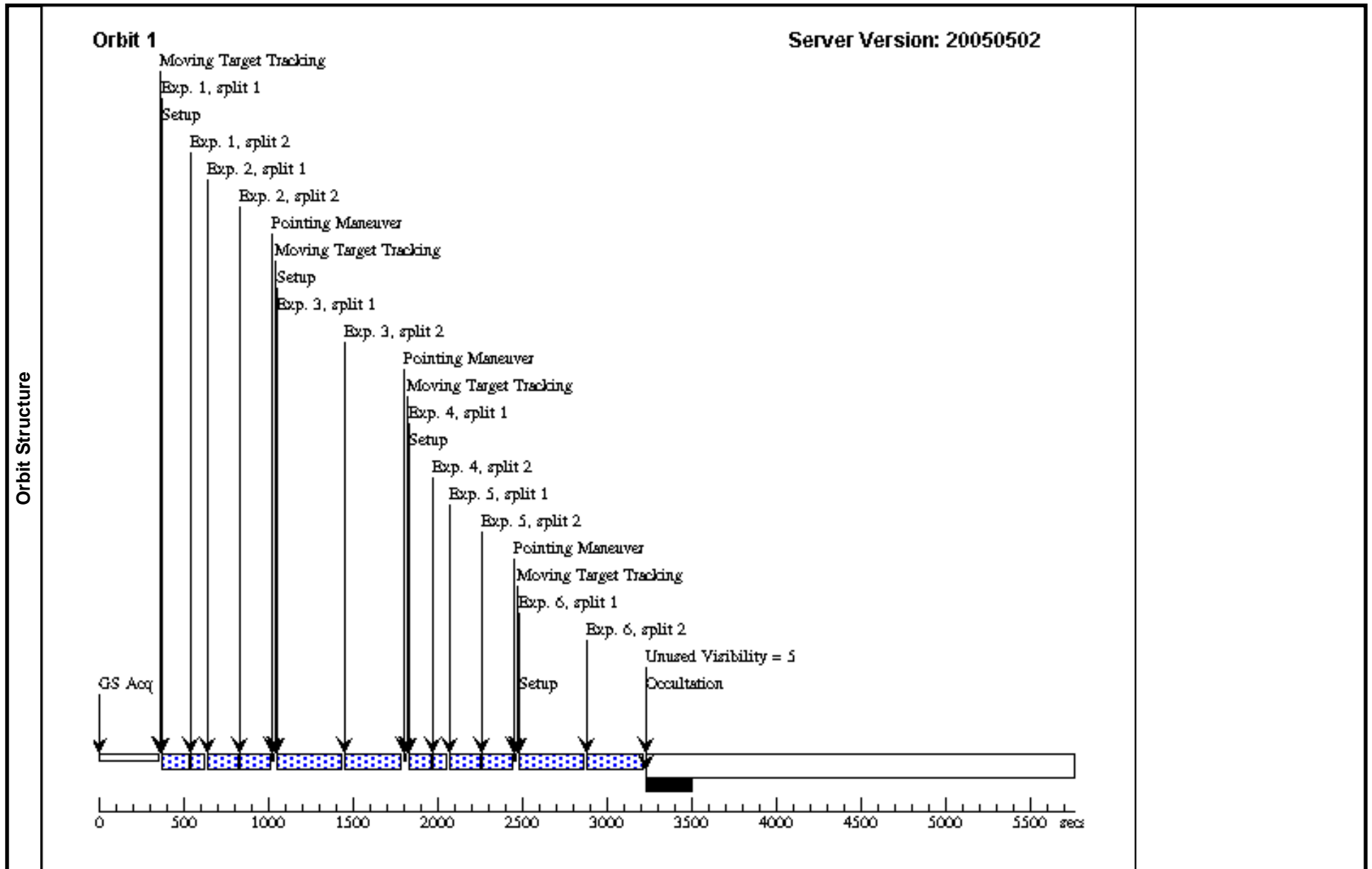
| | | | | | | | | | | |
|---|---|----------------|---|-----------------------------|----------------------|---------------------|-------------------------------------|---------------|--|--------------|
| Visit | <p>Proposal 10456, Visit 13</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: ACS/SBC</p> <p>Special Requirements: PCS MODE FINE; ORIENT 99.0D TO 99.0 D; BETWEEN 11-JUL-2005:19:00:00 AND 11-JUL-2005:21:00:00</p> <p><i>Comments: Visits 12-13 should follow the impact orbit (Visit 5) by approximately 1 week. PC added gs pair 0555900554F20555600026F1 at roll 99.0.</i></p> | | | | | | | | | |
| | <p>(Visit 13) Warning: VISIBILITY OVERRUN</p> | | | | | | | | | |
| Diagnostics | | | | | | | | | | |
| | | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | | | | |
| | (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | | | | |
| <p><i>Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06</i></p> | | | | | | | | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | SBC image | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | F140LP | | GSPAIR 055590055 4F20555600026F1 | | 500.0 Secs [=>509.0 Secs] | [1] |
| | 2 | spectrum | (1) COMET-TEMPEL-1 | ACS/SBC, ACCUM, SBC | PR130L | | | | 500.0 Secs X 4 [=>509.0 Secs (Copy 1)] [=>509.0 Secs (Copy 2)] [=>509.0 Secs (Copy 3)] [=>509.0 Secs (Copy 4)] | [1] |
| | | | | | | | | | | |



Proposal 10456 - Visit 22 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:53 GMT 2005

| Visit | Proposal 10456, Visit 22 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: PCS MODE FINE; BETWEEN 14-JUL-2005:17:00:00 AND 17-JUL-2005:19:00:00 <i>Comments: Visit 22 is intended as a replacement for visit 13 and is a copy of visit 12 (w/ GS and orient removed). It and this are to further constrain timescales for return to quiescence following impact.</i> | | | | | | | | | |
|-----------|--|-------------------------|---|----------------------|---------------|--------------|----------------|--|--|-------|
| | Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | | | |
| | (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.52959823731397,O=68.94087646342231,W=178.8383777556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | | <i>Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06</i> | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | short image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 2 | long image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0,0 | | 280.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 3 | spectrum, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0,0 | | 600.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 4 | short image, position 2 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 5 | long image, position 2 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC | F606W | | POS TARG 0.5,0 | | 280.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 6 | spectrum, position 2 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC | PR200L | AUTOIMAGE=NO | POS TARG 0.5,0 | | 600.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |



Proposal 10456 - Visit A5 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

Wed Jul 06 01:33:53 GMT 2005

| | | | | | | | | | | |
|-----------------------------|---|-------------------------|---|-----------------------------|----------------------|---------------------|--|---------------|---|--------------|
| Visit | Proposal 10456, Visit A5 Diagnostic Status: Warning Scientific Instruments: ACS/HRC Special Requirements: PCS MODE FINE; ORIENT 104.43D TO 104.43 D; BETWEEN 04-JUL-2005:05:00:00 AND 04-JUL-2005:07:00:00; VISIBILITY INTERVAL 3360 S <i>Comments: This set of observations must take place during the HST orbit when the impactor of Deep Impact is expected to hit comet 9P/Tempel 1. Orient 104.43 with gspair 0554601273F10554600926F3 added by pc; visibility = 3360 and extra exposure at position 1 on end.</i> | | | | | | | | | |
| | (Visit A5) Warning: VISIBILITY OVERRUN | | | | | | | | | |
| Diagnostics | | | | | | | | | | |
| | | | | | | | | | | |
| Solar System Targets | # | Name | Level 1 | Level 2 | Level 3 | Window | | | | |
| | (1) | COMET-TEMPEL-1 | TYPE=COMET,Q=1.506123796270703,E=0.5175675503080862,I=10.529598237313 97,O=68.94087646342231,W=178.838377 7556605,T=05-JUL-2005:07:35:18,EQUINOX=J2000,EPOCH=11-MAR-2005:00:00:00,A1=5.2733E-10,A2=-2.2057E-12,A3=1.77644E-10 | | | | <i>Comments: Comet 9P/Tempel 1 is the target of the Deep Impact mission. The elements given below are from JPL#K052/7 using observations through 2005 May 06</i> | | | |
| Exposures | # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
| | 1 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | | POS TARG 0,0; GSPAIR 055460127 3F10554600926F3 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 2 | small image, position 2 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | | POS TARG 0.2,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 3 | small image, position 3 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | | POS TARG 0,0.2 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 4 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | | POS TARG 0,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 5 | small image, position 2 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | | POS TARG 0.2,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |

Proposal 10456 - Visit A5 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

| # | Label | Target | Config,Mode,Aperture | Spectral Els. | Opt. Params. | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
|-----------------------|-------|-------------------------|----------------------|-------------------------|--------------|----------------|--------|---|-------|
| Exposures (continued) | 6 | small image, position 3 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0,0,2 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 7 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 8 | small image, position 2 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0,2,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 9 | small image, position 3 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0,0,2 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 10 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 11 | small image, position 2 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0,2,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 12 | small image, position 3 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0,0,2 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 13 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 14 | small image, position 2 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0,2,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 15 | small image, position 3 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0,0,2 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |
| | 16 | small image, position 1 | (1) COMET-TEMPE L-1 | ACS/HRC, ACCUM, HRC-512 | F606W | POS TARG 0,0 | | 80.0 Secs [==>(Split 1)] [==>(Split 2)] | [1] |

Proposal 10456 - Visit A5 - The Gas Environment of Comet 9P/Tempel 1 During the Deep Impact Encounter

