OTES Observation Timeline

| Epoch | YR | DOY | UTC Date and Time (approx.) | # ifgms | Description |
|---|---|---|---|---|---|
| Launch + 14 day Checkout | 2016 | 264 | 2016-09-20 21:42:00 | 1440 | Instrument functional and radiometric tests at op and non-op set-points |
| Launch + 6 mo. Checkout and Jitter Test | 2017 | 76 | 2017-03-17 19:46:00 | 1880 | Instrument functional and radiometric tests at op and non-op set-points; assess impact of s/c noise sources on OTES data at different servo velocities |
| Launch + 10 mo. Checkout | 2017 | 214 | 2017-08-02 18:24:00 | 1440 | Instrument functional and radiometric tests at op and non-op set-points |
| Earth Gravity Assist + 1 day Observations | 2017 | 265 | 2017-09-22 22:44:00 | 1840 | Earth observations, calibration using deep space and internal cal target |
| Earth Gravity Assist + 3 day Observations - Moon | 2017 | 268 | 2017-09-25 00:00:00 | 1119 | Moon observations, calibration using deep space and internal cal target |
| Earth Gravity Assist + 3 day Observations - Earth | 2017 | 268 | 2017-09-25 04:21:00 | 873 | Earth observations, calibration using deep space and internal cal target |
| Earth Gravity Assist + 6 day Observations | 2017 | 271 | 2017-09-28 00:03:00 | 1173 | Earth observations, calibration using deep space and internal cal target |
| Earth Gravity Assist + 10 day Observations | 2017 | 275 | 2017-10-02 00:00:00 | 3939 | Earth observations, calibration using deep space and internal cal target |
| Launch + 18 mo. Checkout | 2018 | 71 | 2018-03-12 04:02:00 | 1440 | Instrument functional and radiometric tests at op and non-op set-points |
| Launch + 22 mo. Checkout | 2018 | 197 | 2018-07-16 09:03:00 | 720 | Instrument functional and radiometric tests at op and non-op set-points |
| Approach | 2018 | 306 | 2018-11-02 04:00:00 | 8396 | Whole-disk observations, OVIRS-optimized |
| Approach | 2018 | 307 | 2018-11-03 04:00:00 | 8451 | Whole-disk observations, OVIRS-optimized |
| Approach | 2018 | 309 | 2018-11-05 04:00:00 | 8675 | Whole-disk observations, OTES-optimized |
| Approach | 2018 | 312 | 2018-11-08 04:01:00 | 8675 | Whole-disk observations, OTES-optimized |
| Approach | 2018 | 313 | 2018-11-09 04:01:00 | 8675 | Whole-disk observations, OTES-optimized |
| Approach | 2018 | 336 | 2018-12-02 04:35:00 | 8240 | Spatially resolved equatorial observations (OTES ride-along) |
| Preliminary Survey | 2018 | 338 | 2018-12-04 04:21:00 | 8616 | Spatially resolved N. polar observations (OTES ride-along) |
| Preliminary Survey | 2018 | 338 | 2018-12-04 17:54:00 | 17680 | Spatially resolved N. polar observations (OTES ride-along) |
| Preliminary Survey | 2018 | 342 | 2018-12-08 02:24:00 | 8561 | Spatially resolved N. polar observations (OTES ride-along) |
| Preliminary Survey | 2018 | 342 | 2018-12-08 17:55:00 | 8526 | Spatially resolved N. polar observations (OTES ride-along) |
| Preliminary Survey | 2018 | 343 | 2018-12-09 02:26:00 | 8520 | Spatially resolved N. polar observations (OTES ride-along) |
| Preliminary Survey | 2018 | 346 | 2018-12-12 04:15:00 | 8376 | Spatially resolved equatorial observations (OTES ride-along) |
| Preliminary Survey | 2018 | 347 | 2018-12-13 00:14:00 | 8796 | Spatially resolved equatorial observations (OTES ride-along) |
| Preliminary Survey | 2018 | 350 | 2018-12-16 02:20:00 | 8476 | Spatially resolved S. polar observations (OTES ride-along) |
| Preliminary Survey | 2018 | 350 | 2018-12-16 17:55:00 | 8496 | Spatially resolved S. polar observations (OTES ride-along) |
| Preliminary Survey | 2018 | 351 | 2018-12-17 02:30:00 | 8390 | Spatially resolved S. polar observations (OTES ride-along) |
| Orbital A | 2019 | 53 | 2019-02-22 19:19:00 | 31669 | Orbital imaging (OTES ride-along) |
| Orbital A | 2019 | 54 | 2019-02-23 19:19:00 | 31669 | Orbital imaging (OTES ride-along) |
| Orbital A | 2019 | 55 | 2019-02-24 19:19:00 | 31669 | Orbital imaging (OTES ride-along) |
| Orbital A | 2019 | 56 | 2019-02-25 19:19:00 | 31669 | Orbital imaging (OTES ride-along) |
| Orbital A | 2019 | 57 | 2019-02-26 19:19:00 | 31669 | Orbital imaging (OTES ride-along) |
| Orbital A | 2019 | 58 | 2019-02-27 19:19:00 | 31669 | Orbital imaging (OTES ride-along) |
| Detailed Survey - Baseball Diamond #1 | 2019 | 66 | 2019-03-07 16:59:00 | 8469 | 12:30 pm rectangular raster scan (equatorial) (OTES ride-along) |
| Detailed Survey - Baseball Diamond #2 | 2019 | 73 | 2019-03-14 17:23:00 | 8723 | 12:30 pm point and stare (equatorial) (OTES ride-along) |
| Detailed Survey - Baseball Diamond #3 | 2019 | 80 | 2019-03-21 17:23:00 | 8363 | 10:00 am linear scan (OTES ride-along) |
| Detailed Survey - Baseball Diamond #4a | 2019 | 87 | 2019-03-28 17:09:00 | 8355 | 10:00 am linear scan (S. hemisphere) (OTES ride-along) |
| Detailed Survey - Baseball Diamond #4b | 2019 | 88 | 2019-03-29 17:19:00 | 8356 | 10:00 am linear scan (N. hemisphere) (OTES ride-along) |
| Launch +30 mo. Checkout | 2019 | 91 | 2019-04-01 14:35:00 | 1581 | Instrument functional and radiometric tests at op and non-op set-points |
| Launch +30 mo. Checkout | 2019 | 93 | 2019-04-03 14:00:00 | 1710 | Instrument functional and radiometric tests at op and non-op set-points |
| Detailed Survey - Baseball Diamond #5a | 2019 | 94 | 2019-04-04 17:36:00 | 8491 | 12:30 pm rectangular raster scan (N. hemisphere) (OTES ride-along) |
| Detailed Survey - Baseball Diamond #5b | 2019 | 95 | 2019-04-05 17:14:00 | 8364 | 12:30 pm pointing to 10:30 am sun line scan (S. hemisphere) (OTES ride-along) |
| Launch +30 mo. Checkout | 2019 | 97 | 2019-04-07 14:00:00 | 3499 | Instrument functional and radiometric tests at op and non-op set-points |
| Detailed Survey - Baseball Diamond #6a | 2019 | 101 | 2019-04-11 17:34:00 | 8493 | 12:30 pm rectangular raster scan (S. hemisphere) (OTES ride-along) |
| Detailed Survey - Baseball Diamond #6b | 2019 | 102 | 2019-04-12 17:07:00 | 8369 | 12:30 pm pointing to 10:30 am sun line scan (N. hemisphere) (OTES ride-along) |
| Detailed Survey - Baseball Diamond #7a | 2019 | 108 | 2019-04-18 16:38:00 | 8663 | 12:30 pm point and stare (N. hemisphere) (OTES ride-along) |
| Detailed Survey - Baseball Diamond #7b | 2019 | 109 | 2019-04-19 16:53:00 | 8663 | 12:30 pm point and stare (S. hemisphere) (OTES ride-along) |
| Detailed Survey - Equatorial Station #1 | 2019 | 115 | 2019-04-25 17:19:00 | 10493 | 3:00 pm linear and zig-zag scans |
| Detailed Survey - Equatorial Station #2 | 2019 | 122 | 2019-05-02 17:41:00 | 10660 | 3:20 am nadir and off-nadir linear scans |
| Detailed Survey - Equatorial Station #2 | 2019 | 123 | 2019-05-03 05:00:00 | 5600 | 3:20 am annulus/point and stare hybrid |
| Detailed Survey - Equatorial Station #3 | 2019 | 129 | 2019-05-09 15:45:00 | 9315 | 12:30 pm linear scans |
| Detailed Survey - Equatorial Station #3 | 2019 | 131 | 2019-05-11 02:01:00 | 8834 | 12:30 pm zig-zag scans |
| Detailed Survey - Equatorial Station #4 | 2019 | 136 | 2019-05-16 17:22:00 | 10556 | 10:00 am linear and zig-zag scans |