

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1688 - L2 Version 001
Chandra X-Ray Center

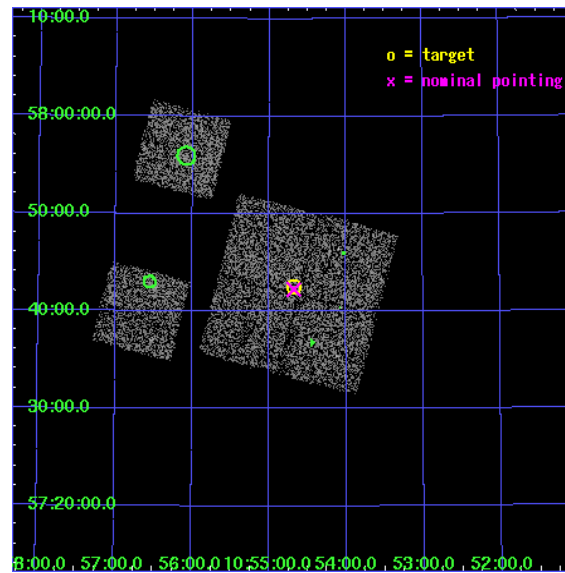
L2 Processing Date : Dec 11 2006

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1 Front

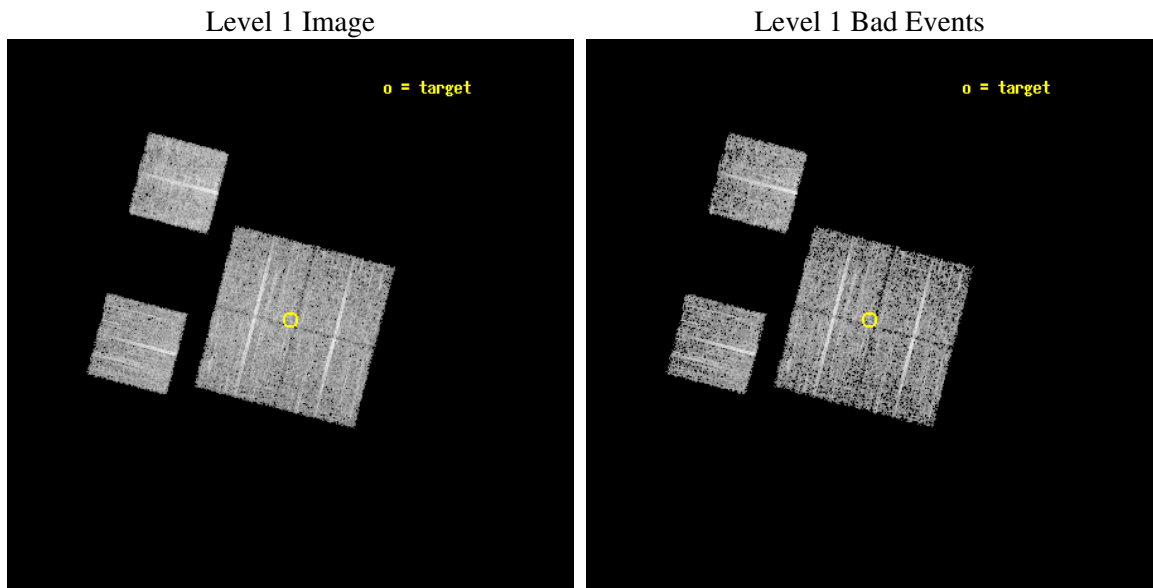
| | |
|----------|-----------------------------|
| seq_num | 900047 |
| obs_id | 1688 |
| title | LOCKMAN HOLE SHALLOW SURVEY |
| observer | Dr. Stephen Murray |
| object | LOCKMAN HOLE #17 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 163.670833 |
| dec_targ | 57.708889 |
| ra_nom | 163.66961868383 |
| dec_nom | 57.704242515145 |
| roll_nom | 284.53843138329 |
| revision | 2 |
| ontime | 4758.4000044316 |
| livetime | 4698.146278411 |
| ontime0 | 4758.4000044316 |
| ontime1 | 4758.4000044316 |
| ontime2 | 4758.4000044316 |
| ontime3 | 4758.4000044316 |
| ontime6 | 4758.4000044316 |
| ontime8 | 4758.4000044316 |
| l2events | 18141 |



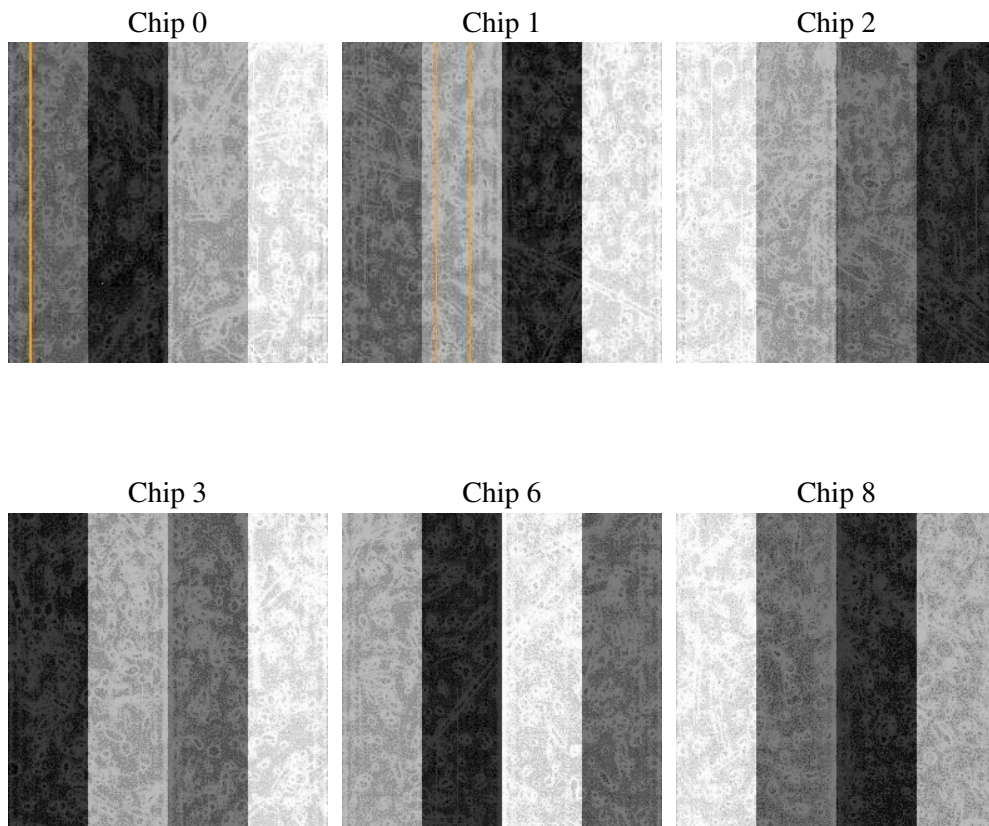
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.9 |
| caldsver | 3.2.4 |
| date | 2006-12-11T18:37:46 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 5000.000000 |
| ontime | 4764.2655661553 |
| ontime0 | 4764.2655661553 |
| ontime1 | 4764.2655661553 |
| ontime2 | 4764.2655960768 |
| ontime3 | 4764.2655661553 |
| ontime6 | 4764.2655661553 |
| ontime8 | 4764.2655960768 |
| l1events | 192339 |

2.1.4 Events

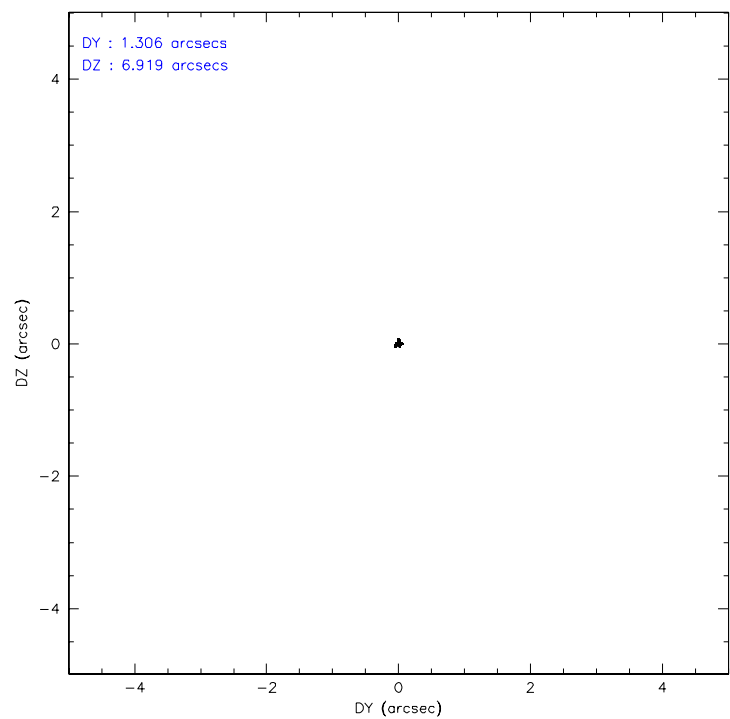
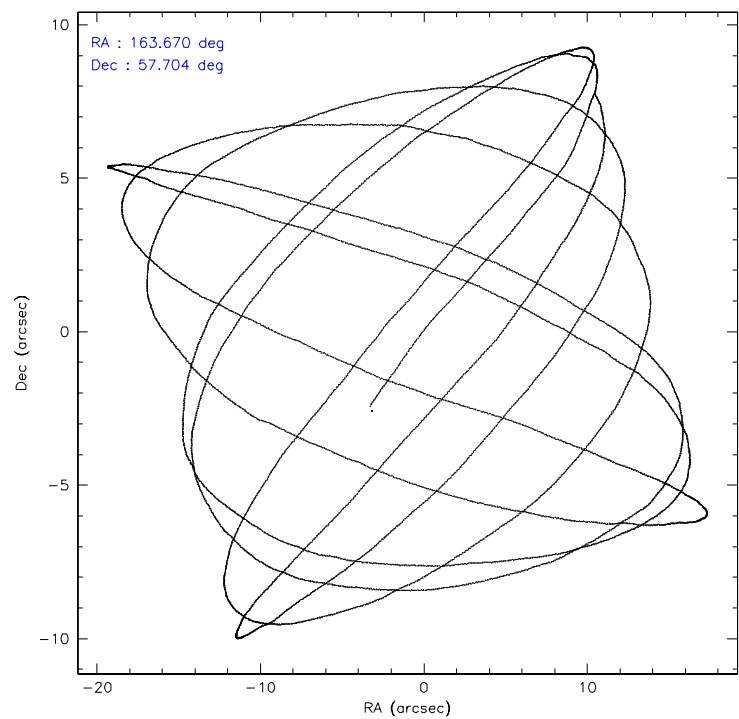
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 8 |
|-----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 28095 | 28170 | 31479 | 30981 | 32034 | 41580 |
| rejected events | 24540 | 24530 | 28175 | 27556 | 28658 | 33139 |
| rejected % | 87% | 87% | 89% | 88% | 89% | 79% |

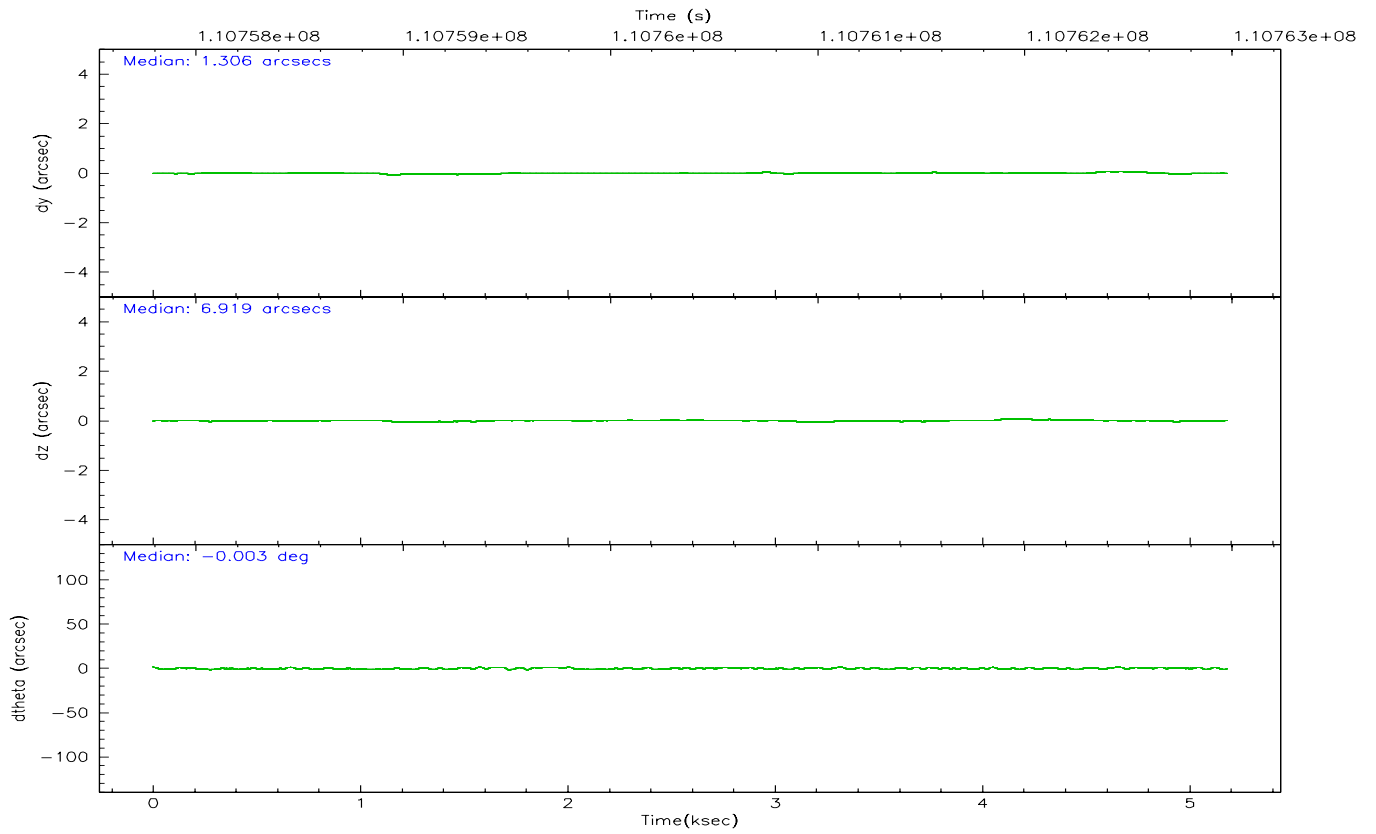
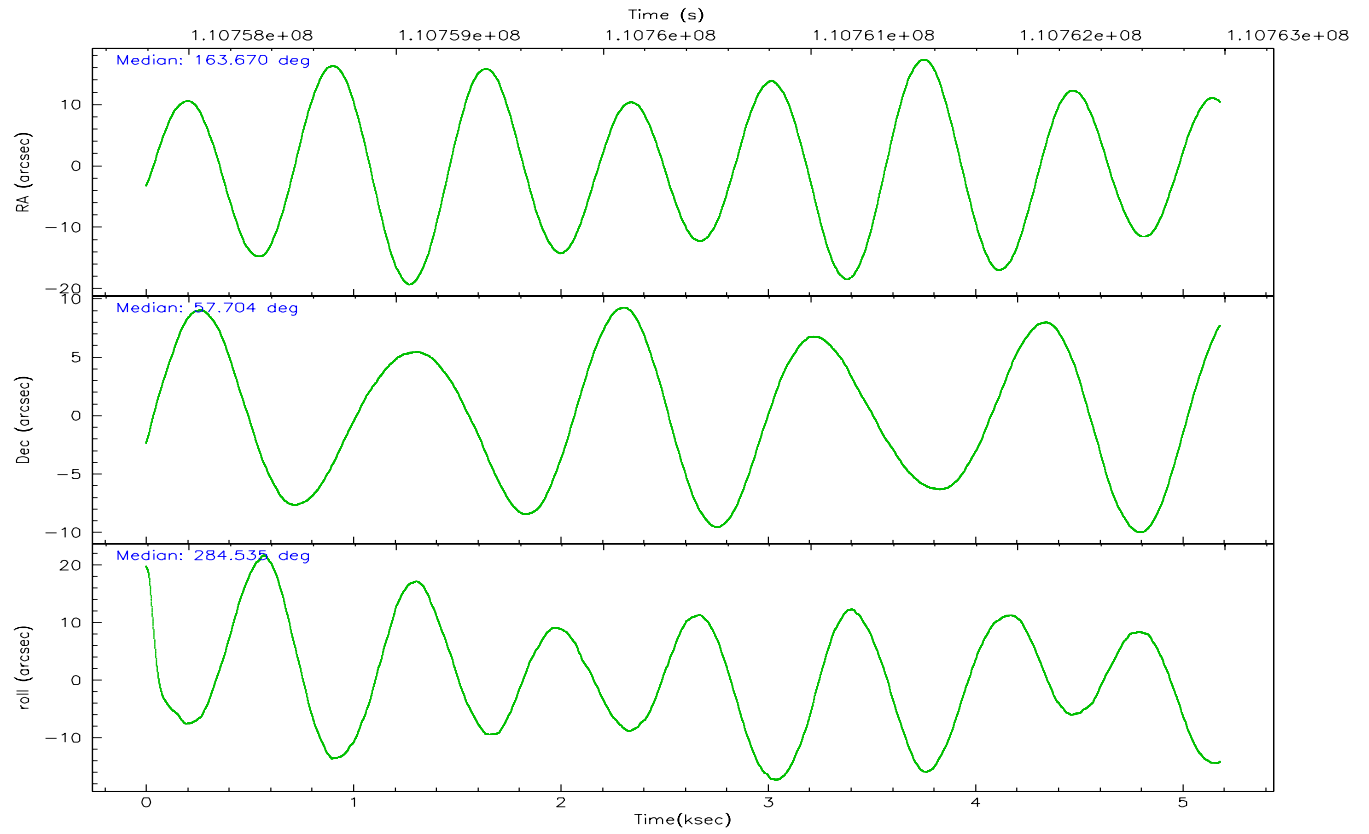
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 8 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 1521 | 1467 | 1370 | 1455 | 1330 | 2622 |
| | 5% | 5% | 4% | 4% | 4% | 6% |
| grade 1 events | 10 | 16 | 19 | 17 | 10 | 18 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 768 | 759 | 714 | 667 | 660 | 1776 |
| | 2% | 2% | 2% | 2% | 2% | 4% |
| grade 3 events | 344 | 372 | 315 | 341 | 356 | 967 |
| | 1% | 1% | 1% | 1% | 1% | 2% |
| grade 4 events | 337 | 377 | 332 | 346 | 356 | 844 |
| | 1% | 1% | 1% | 1% | 1% | 2% |
| grade 5 events | 1107 | 1222 | 1044 | 1158 | 1290 | 1688 |
| | 3% | 4% | 3% | 3% | 4% | 4% |
| grade 6 events | 587 | 675 | 578 | 620 | 677 | 2234 |
| | 2% | 2% | 1% | 2% | 2% | 5% |
| grade 7 events | 23421 | 23282 | 27107 | 26377 | 27355 | 31431 |
| | 83% | 82% | 86% | 85% | 85% | 75% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-012368 | ACIS-012368 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| Pointing RA | 163.633449 | 163.6696186838308 | Subarray requested | NONE | NONE |
| Pointing Dec | 57.723733 | 57.70424251514532 | Alternating exposures requested | N | N |
| Pointing Roll | 284.360315 | 284.5384313832887 | Primary exposure time | 0.000000 | 3.2 |
| SIM focus pos (mm) | -0.782348 | -0.7809083437167272 | | | |
| SIM defocus (mm) | 0 | 0.001439871863259334 | | | |
| SIM translation stage pos (mm) | -233.592463 | -233.5874344608287 | | | |
| SIM translation stage offset (mm) | 0 | -0.005018542100998502 | | | |
| Observation start time | 110757973.184000 | 110757596.59827 | | | |
| Observation start date | 2001-07-05T22:05:09 | 2001-07-05T21:59:56 | | | |
| Observation end time | 110762973.184000 | 110763106.99848 | | | |
| Observation end date | 2001-07-05T23:28:29 | 2001-07-05T23:31:46 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



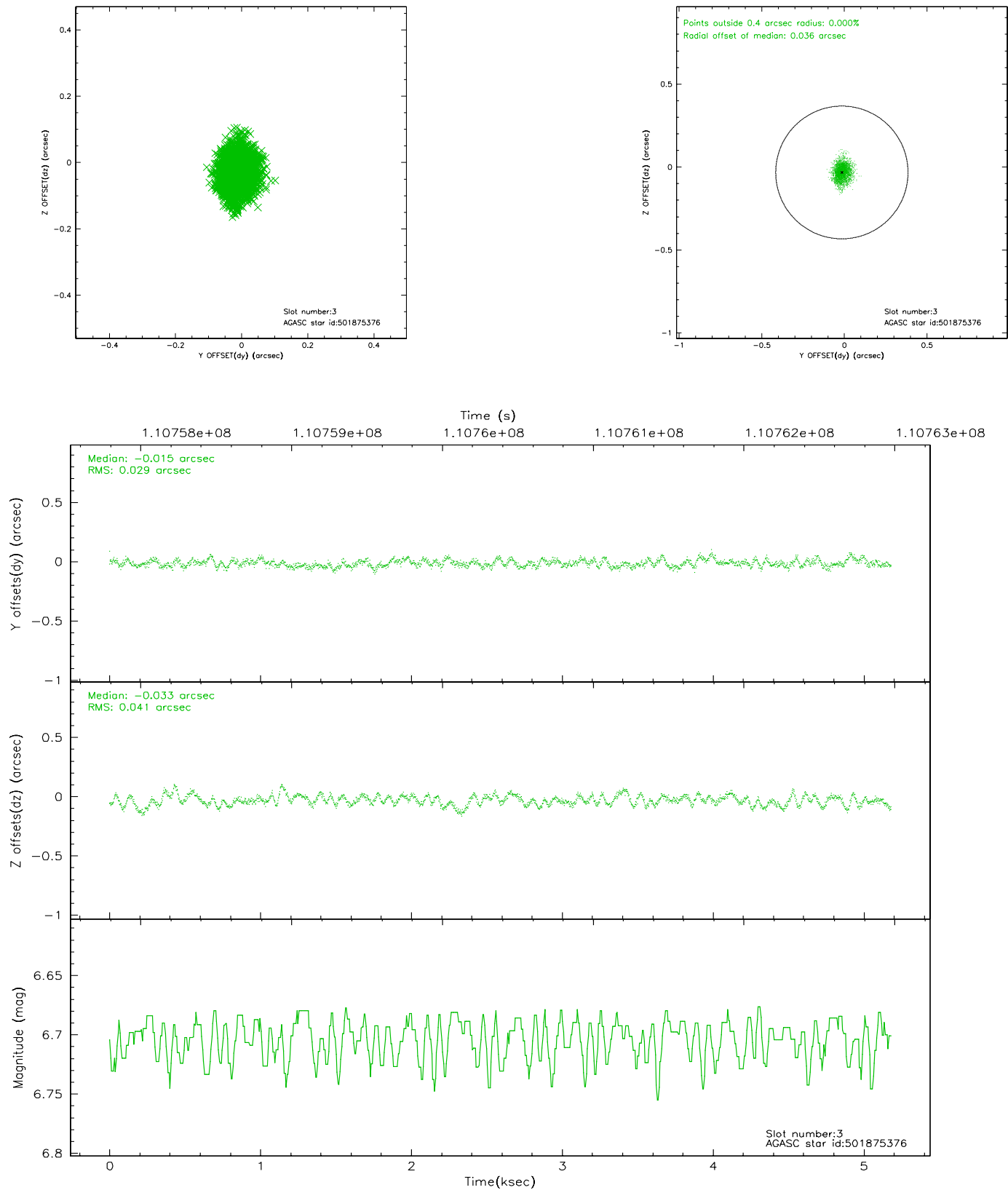


Slot Statistics

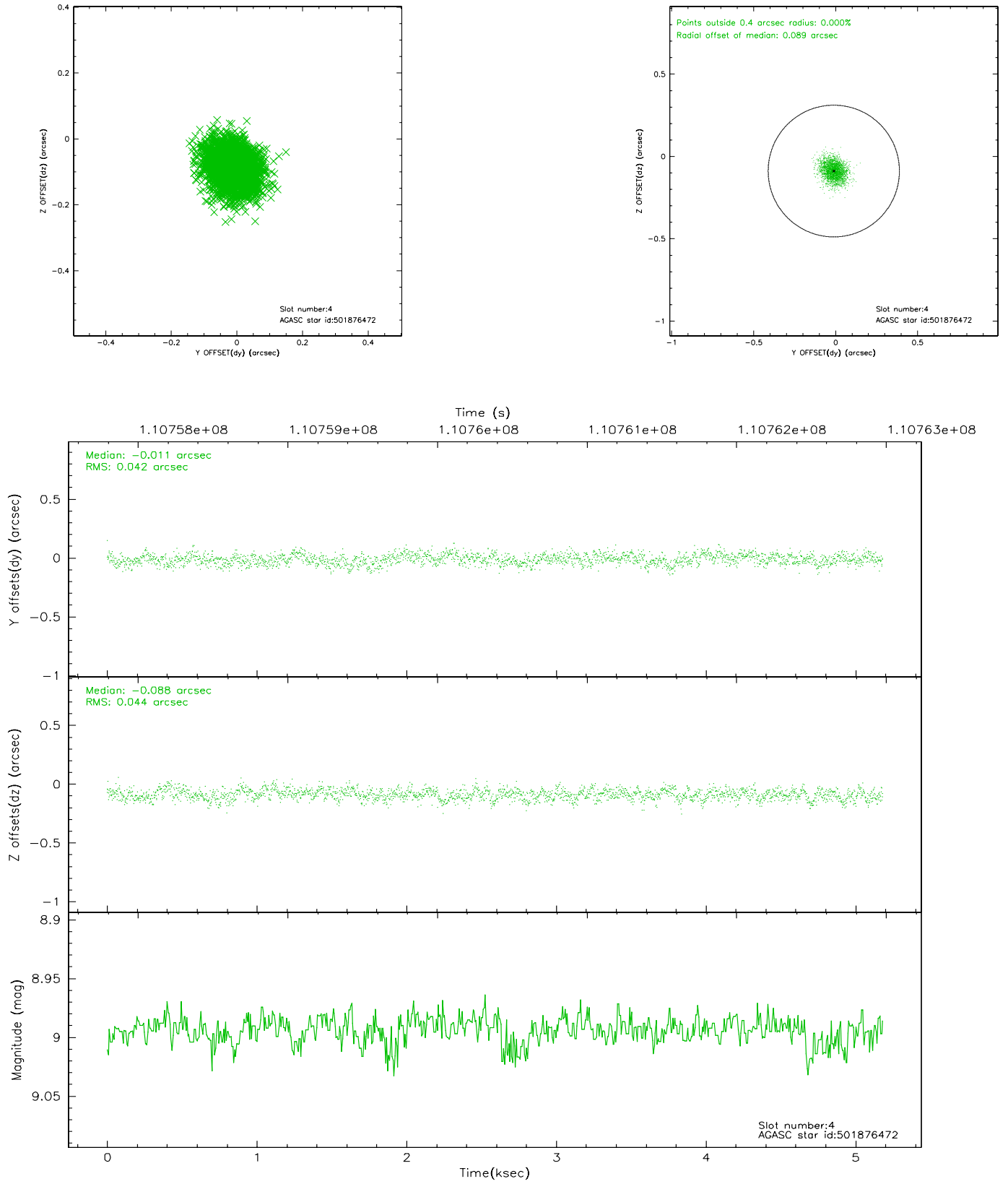
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|---------|
| 0 | FID | ACIS-I-2 | 7.16 | 1264 | -0.023 | -0.043 | 0.009 | 0.015 | 0.000000 | 0.000000 | -755.65 | -836.73 |
| 1 | FID | ACIS-I-4 | 7.18 | 1264 | -0.093 | 0.034 | 0.005 | 0.009 | 0.000000 | 0.000000 | 2157.79 | 1068.97 |
| 2 | FID | ACIS-I-5 | 7.23 | 1264 | 0.015 | 0.078 | 0.009 | 0.014 | 0.000000 | 0.000000 | -1807.96 | 1068.15 |
| 3 | GUIDE | 501875376 | 6.70 | 2529 | -0.015 | -0.033 | 0.054 | 0.088 | 164.111621 | 57.502963 | 996.37 | 698.92 |
| 4 | GUIDE | 501876472 | 8.99 | 2528 | -0.011 | -0.088 | 0.065 | 0.106 | 163.621724 | 57.867447 | -506.14 | 105.86 |
| 5 | GUIDE | 501874936 | 9.95 | 2529 | 0.108 | -0.047 | 0.139 | 0.233 | 164.170577 | 58.432800 | -2225.71 | 1614.00 |
| 6 | GUIDE | 501877264 | 9.31 | 2529 | -0.023 | 0.139 | 0.088 | 0.146 | 163.254394 | 57.702218 | -108.41 | -724.94 |
| 7 | GUIDE | 501877056 | 9.69 | 2526 | -0.061 | 0.028 | 0.101 | 0.170 | 164.433826 | 58.166965 | -1177.58 | 1869.18 |

2.4 Star Slots

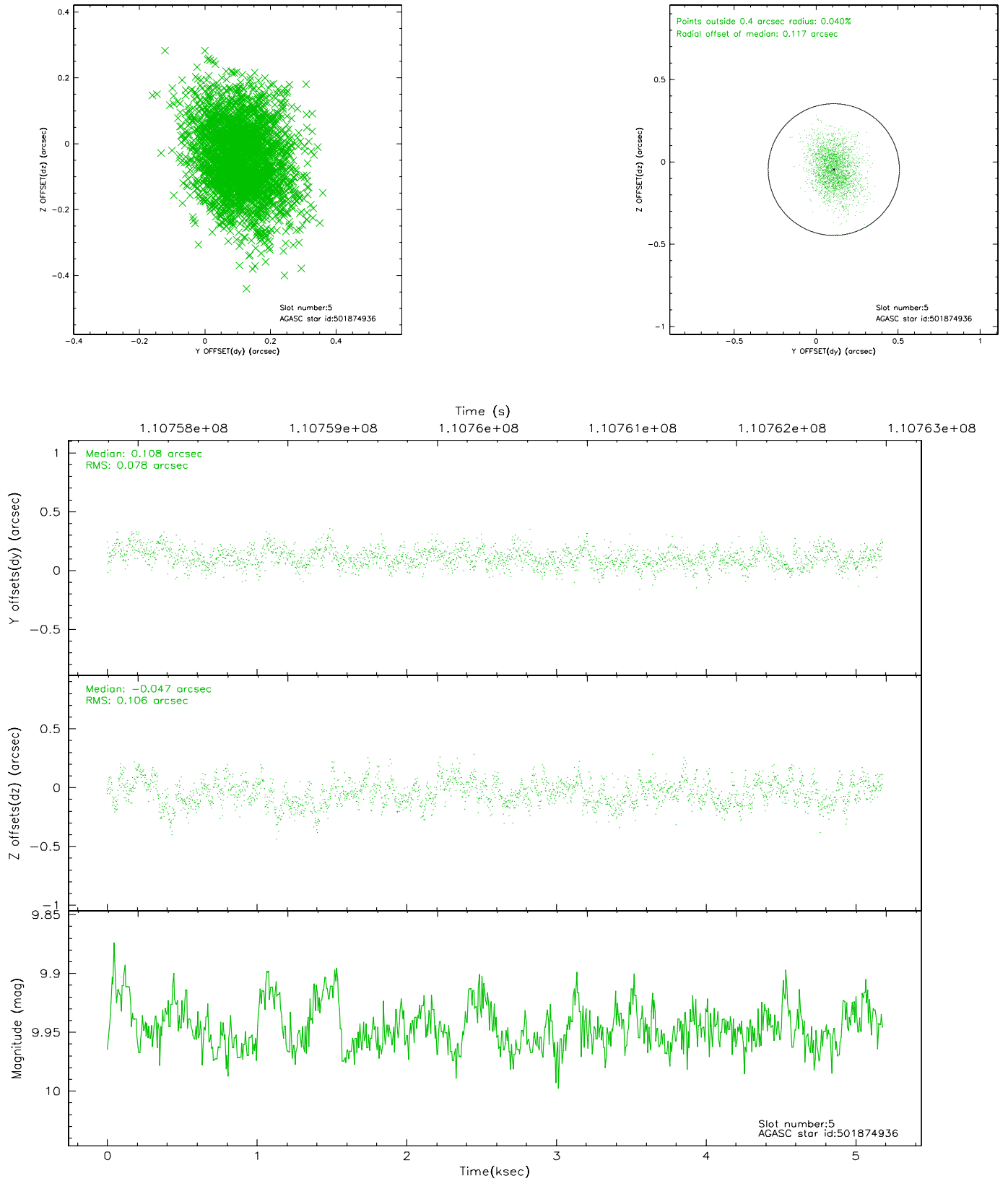
2.4.1 Slot 3



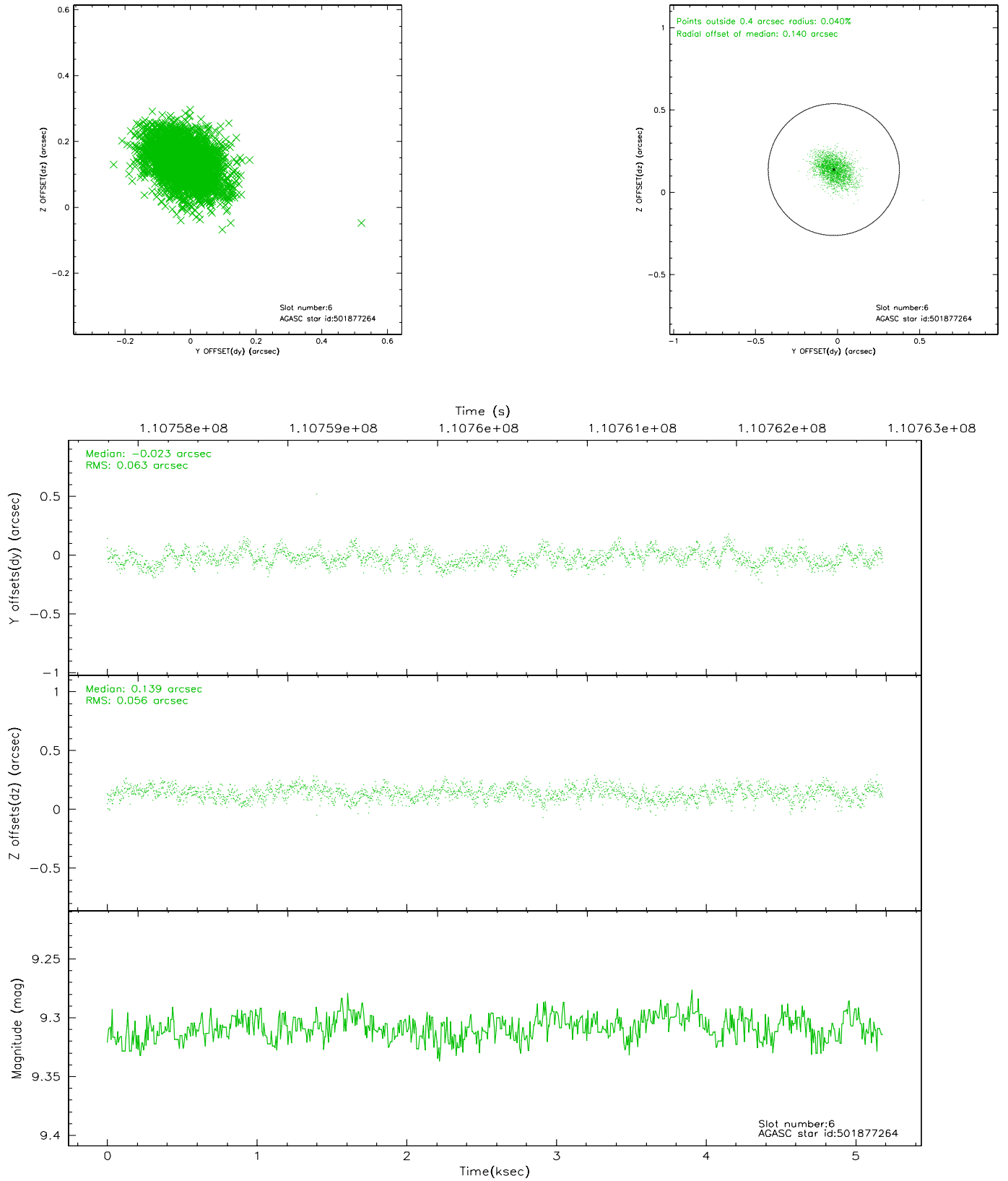
2.4.2 Slot 4



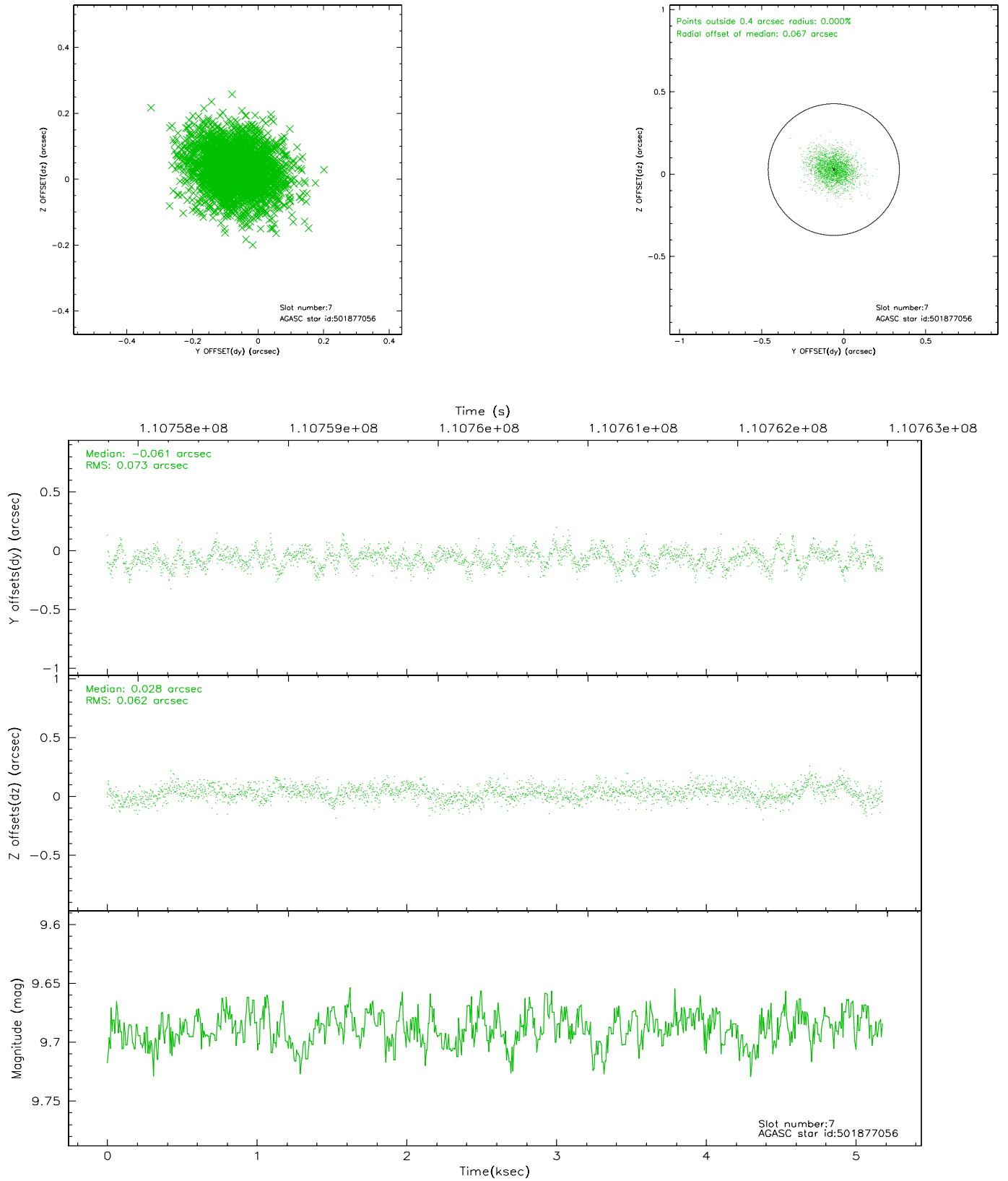
2.4.3 Slot 5



2.4.4 Slot 6

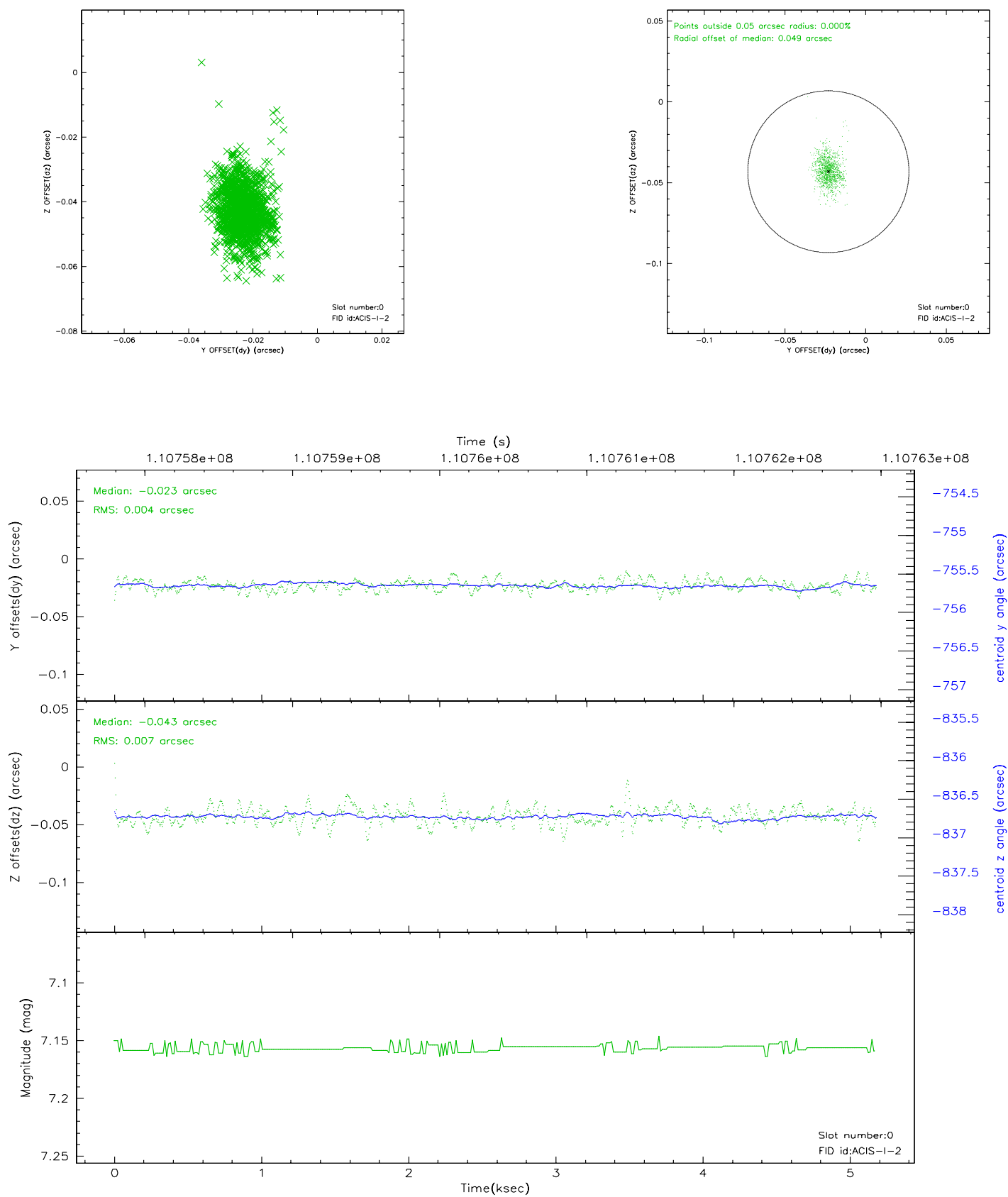


2.4.5 Slot 7

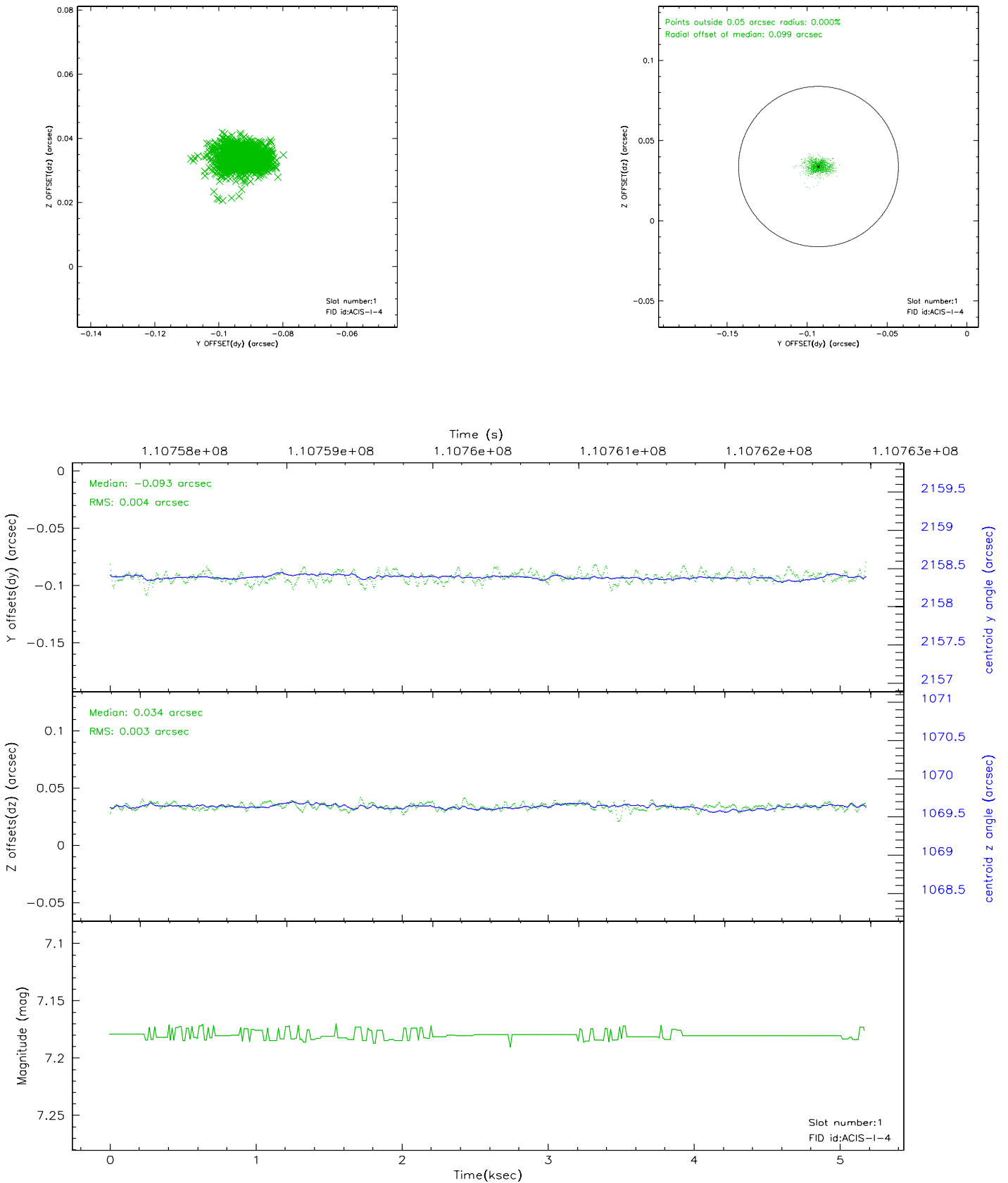


2.5 FID Slots

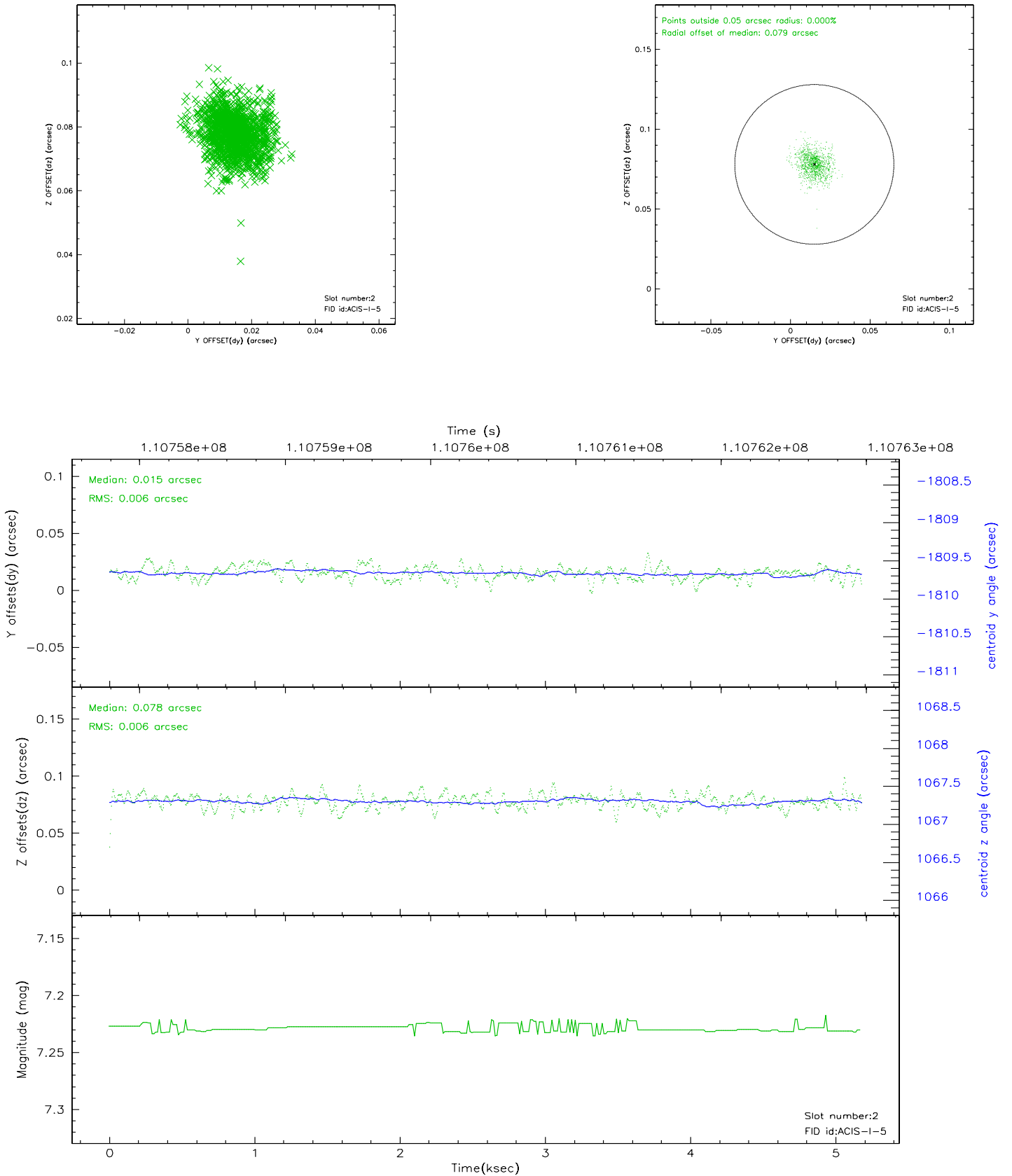
2.5.1 Slot 0



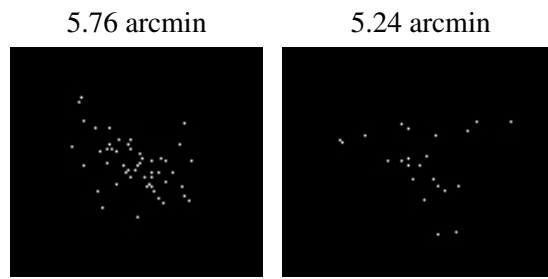
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2006.12.11 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.8 |

A.2 Comments