

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 3529 - L2 Version 001
Chandra X-Ray Center

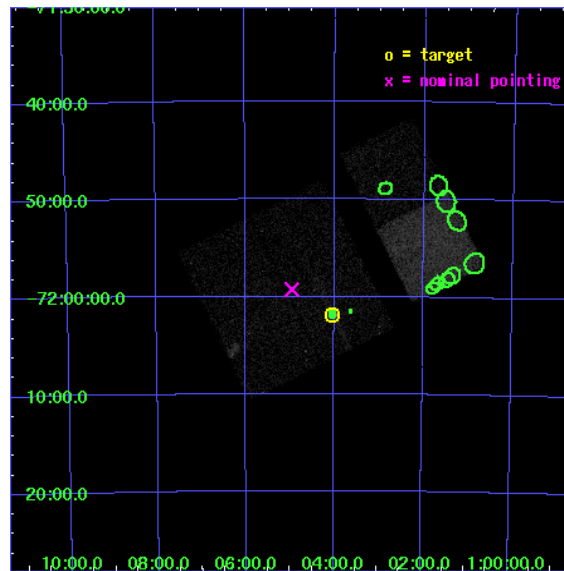
L2 Processing Date : Jul 11 2006

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1 Front

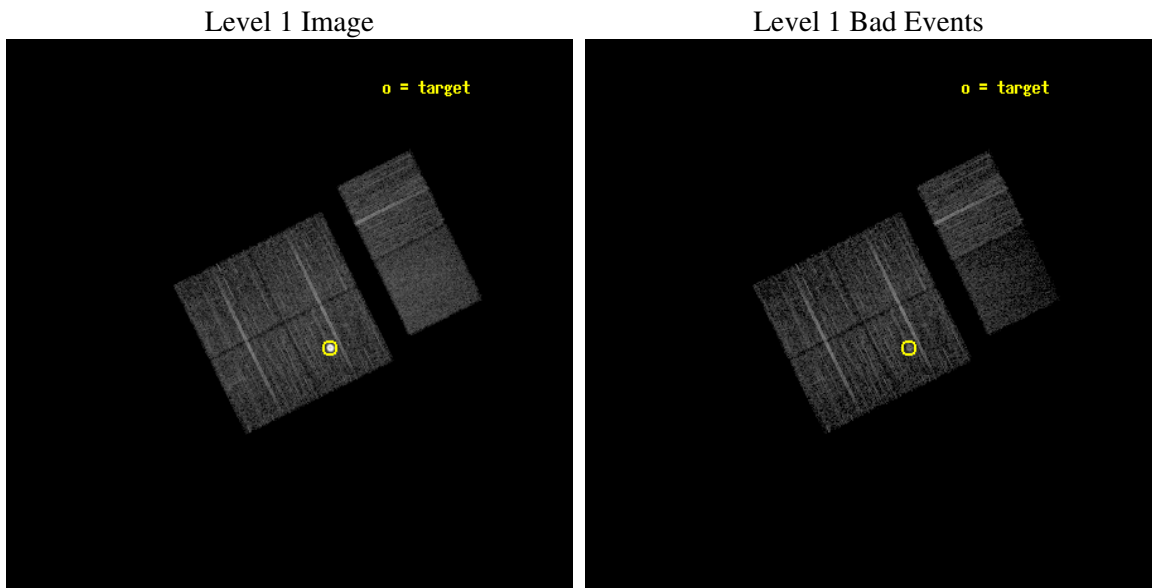
| | |
|----------|--|
| seq_num | 590284 |
| obs_id | 3529 |
| title | AO4B ACIS-I CALIBRATION OBSERVATIONS OF E0102-72 |
| observer | Dr. CXC Calibration |
| object | E0102-72[I3,-120,-4.0,2.5,0] |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 16.01 |
| dec_targ | -72.032028 |
| ra_nom | 16.238598439386 |
| dec_nom | -71.988050826081 |
| roll_nom | 63.762427504564 |
| revision | 3 |
| ontime | 7750.3590008616 |
| livetime | 7652.2192884868 |
| ontime0 | 7753.5999711156 |
| ontime1 | 7753.5999711156 |
| ontime2 | 7753.5999711156 |
| ontime3 | 7750.3590008616 |
| ontime6 | 7753.5999711156 |
| ontime7 | 7753.5999711156 |
| l2events | 58916 |



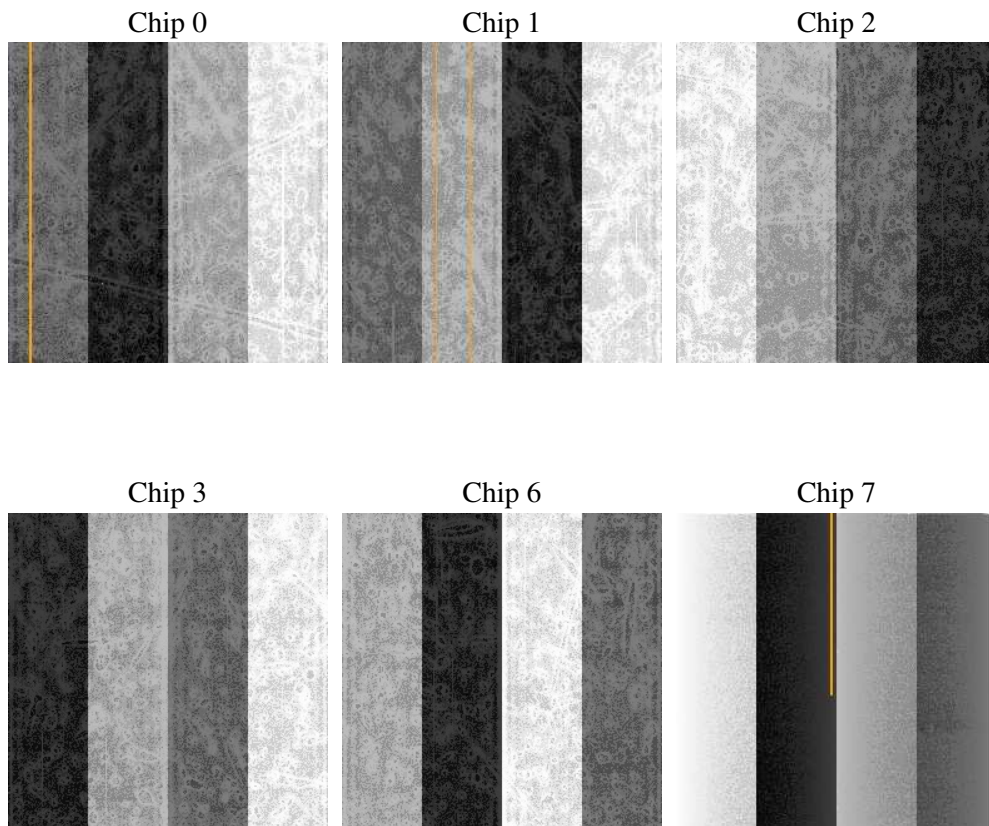
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.8 |
| caldbver | 3.2.2 |
| date | 2006-07-11T16:02:10 |
| revision | 3 |

| | |
|----------------|-----------------|
| sched_exp_time | 8000.000000 |
| ontime | 7755.7228811383 |
| ontime0 | 7758.9638513923 |
| ontime1 | 7758.9638513923 |
| ontime2 | 7758.963881284 |
| ontime3 | 7755.7228811383 |
| ontime6 | 7758.9638513923 |
| ontime7 | 7758.96387133 |
| l1events | 250500 |

2.1.4 Events

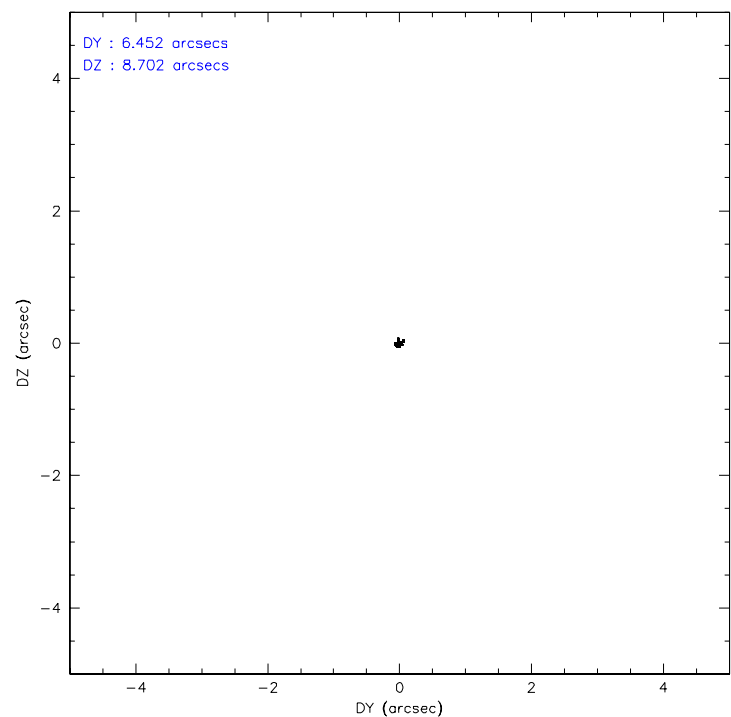
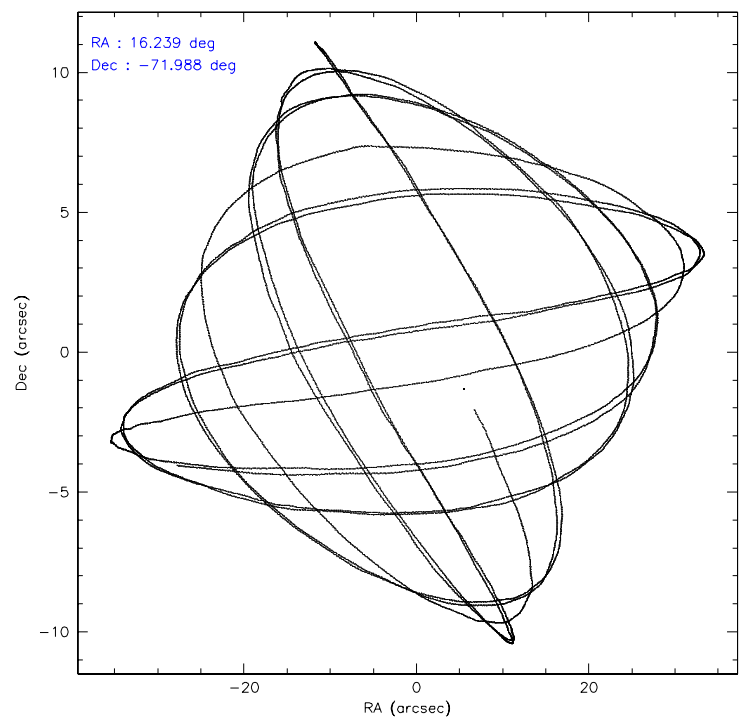
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 34728 | 35852 | 38283 | 62417 | 40636 | 38584 |
| rejected events | 30904 | 31253 | 34586 | 33883 | 36598 | 19089 |
| rejected % | 88% | 87% | 90% | 54% | 90% | 49% |

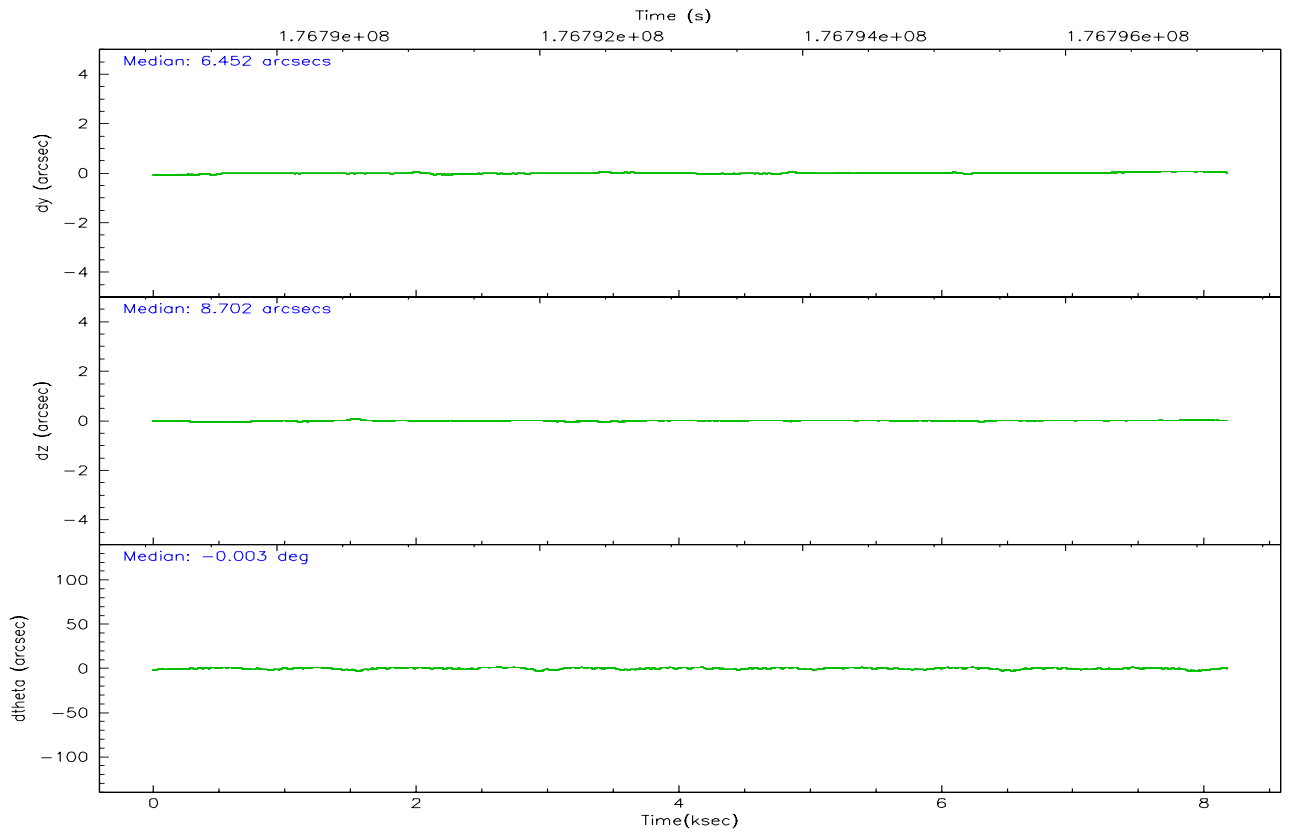
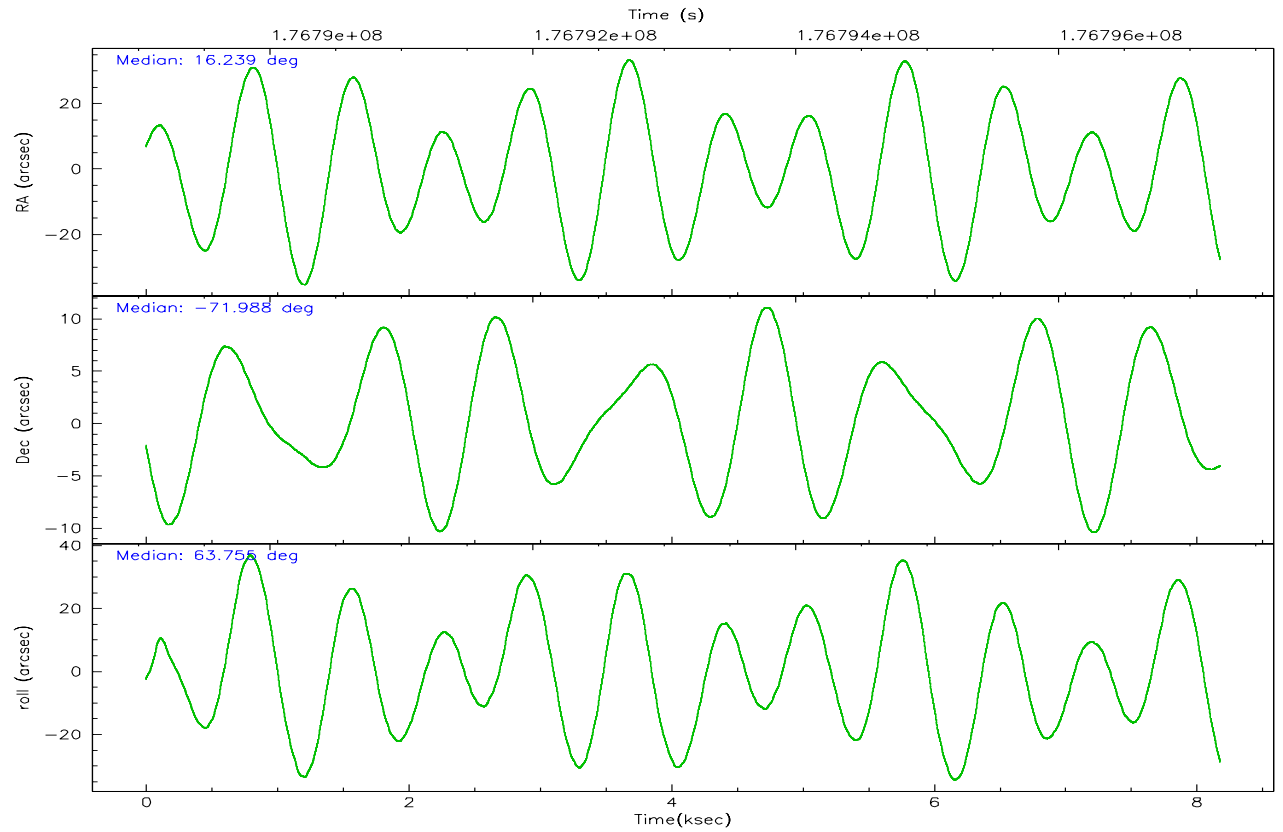
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 1438 | 1988 | 1469 | 23586 | 1538 | 1638 |
| | 4% | 5% | 3% | 37% | 3% | 4% |
| grade 1 events | 16 | 23 | 18 | 192 | 14 | 25 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 846 | 834 | 832 | 2532 | 877 | 4923 |
| | 2% | 2% | 2% | 4% | 2% | 12% |
| grade 3 events | 465 | 481 | 392 | 812 | 431 | 1246 |
| | 1% | 1% | 1% | 1% | 1% | 3% |
| grade 4 events | 410 | 482 | 392 | 803 | 409 | 1290 |
| | 1% | 1% | 1% | 1% | 1% | 3% |
| grade 5 events | 1130 | 1227 | 1056 | 1334 | 1257 | 2860 |
| | 3% | 3% | 2% | 2% | 3% | 7% |
| grade 6 events | 667 | 818 | 615 | 810 | 786 | 10408 |
| | 1% | 2% | 1% | 1% | 1% | 26% |
| grade 7 events | 29756 | 29999 | 33509 | 32348 | 35324 | 16194 |
| | 85% | 83% | 87% | 51% | 86% | 41% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-012367 | ACIS-012367 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | NONE | NONE |
| Pointing RA | 16.244752 | 16.23859843938585 | Alternating exposures requested | N | N |
| Pointing Dec | -72.015302 | -71.98805082608121 | Primary exposure time | 0.000000 | 3.2 |
| Pointing Roll | 63.559589 | 63.76242750456392 | | | |
| Window start time | 174614464.184000 | 174614464.184000 | | | |
| Window stop time | 177292864.184000 | 177292864.184000 | | | |
| 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 | 176789233.184000 | 176788857.29611 | | | |
| Observation start date | 2003-08-09T04:06:09 | 2003-08-09T04:00:57 | | | |
| Observation end time | 176797233.184000 | 176797367.35898 | | | |
| Observation end date | 2003-08-09T06:19:29 | 2003-08-09T06:22:47 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



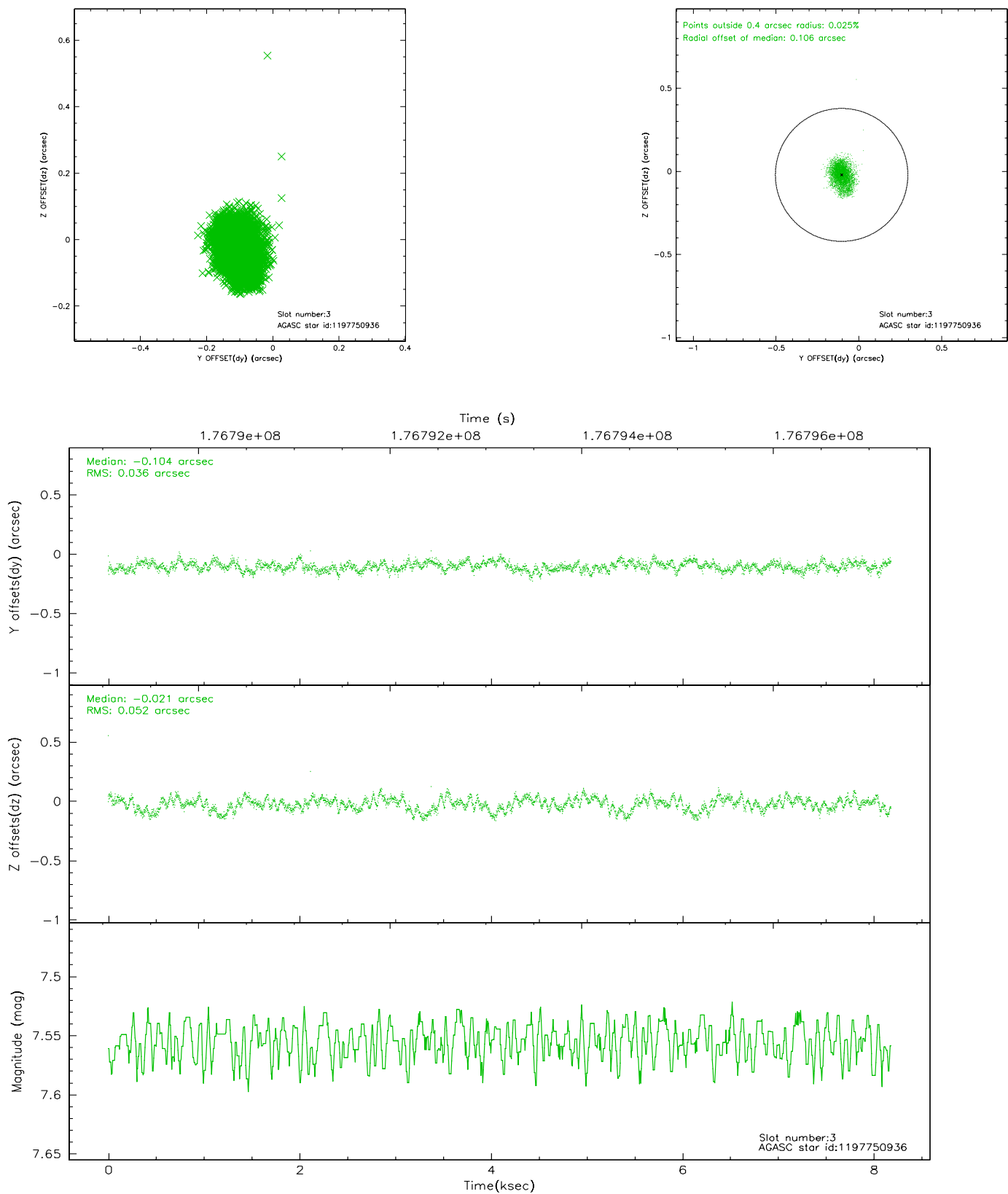


Slot Statistics

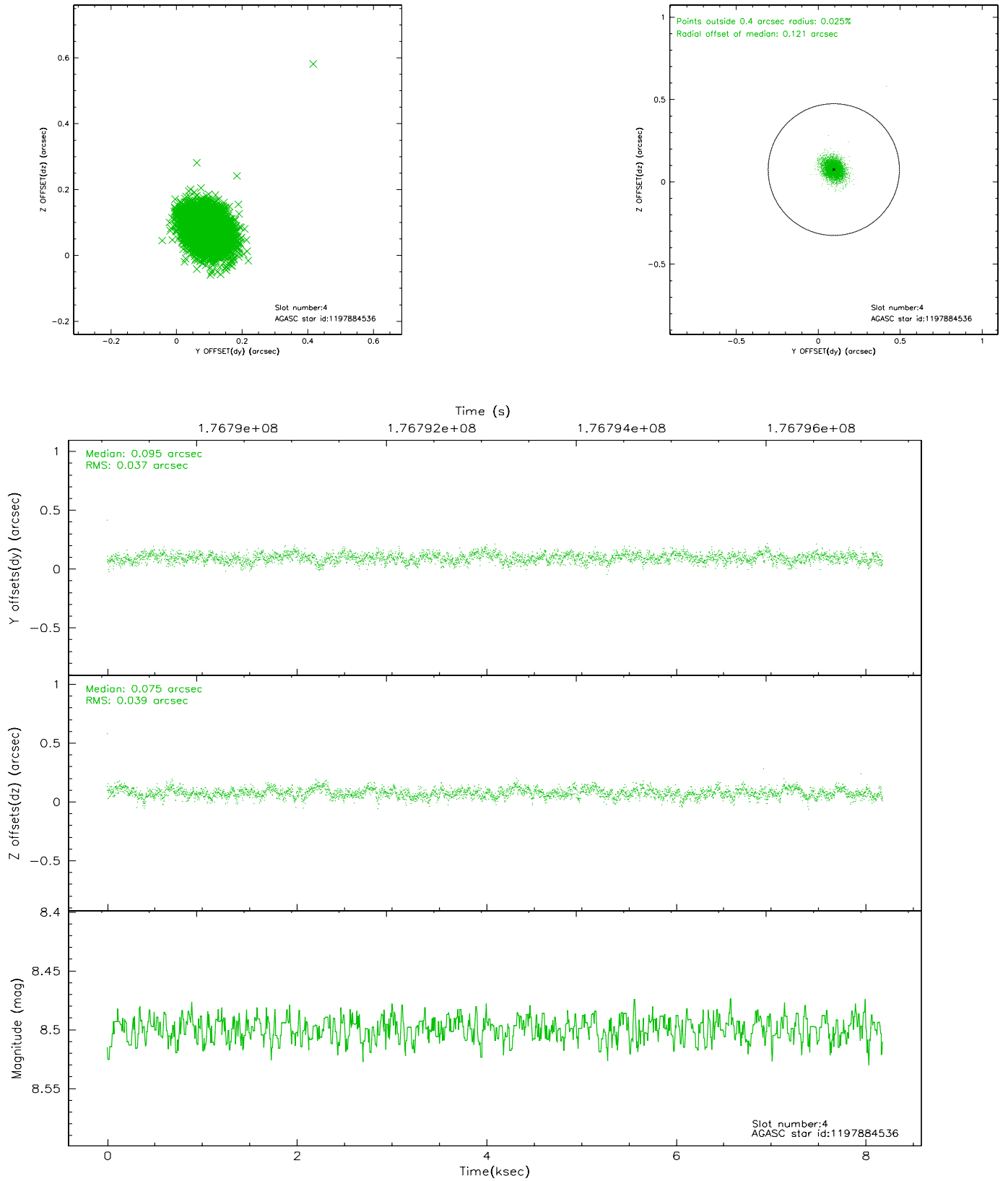
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|---------|------------|-------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.24 | 1996 | -0.009 | 0.010 | 0.007 | 0.017 | 0.000000 | 0.000000 | 933.26 | -832.10 |
| 1 | FID | ACIS-I-5 | 7.23 | 1996 | -0.051 | 0.039 | 0.007 | 0.017 | 0.000000 | 0.000000 | -1814.56 | 1065.00 |
| 2 | OMITTED | | 0.00 | 0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000000 | 0.000000 | 0.00 | 0.00 |
| 3 | GUIDE | 1197750936 | 7.55 | 3991 | -0.104 | -0.021 | 0.066 | 0.109 | 15.387940 | -71.549550 | 1060.39 | 1617.84 |
| 4 | GUIDE | 1197884536 | 8.50 | 3992 | 0.095 | 0.075 | 0.056 | 0.090 | 17.160729 | -71.835289 | 1031.78 | -634.49 |
| 5 | GUIDE | 1197885104 | 9.33 | 3991 | -0.028 | 0.009 | 0.123 | 0.199 | 17.845067 | -72.189368 | 203.05 | -1866.94 |
| 6 | GUIDE | 1197885328 | 7.22 | 3992 | -0.055 | -0.145 | 0.054 | 0.082 | 16.283090 | -71.733943 | 926.81 | 411.78 |
| 7 | GUIDE | 1198190968 | 10.01 | 3988 | 0.093 | 0.074 | 0.114 | 0.192 | 15.749622 | -72.545972 | -1949.88 | -372.74 |

2.4 Star Slots

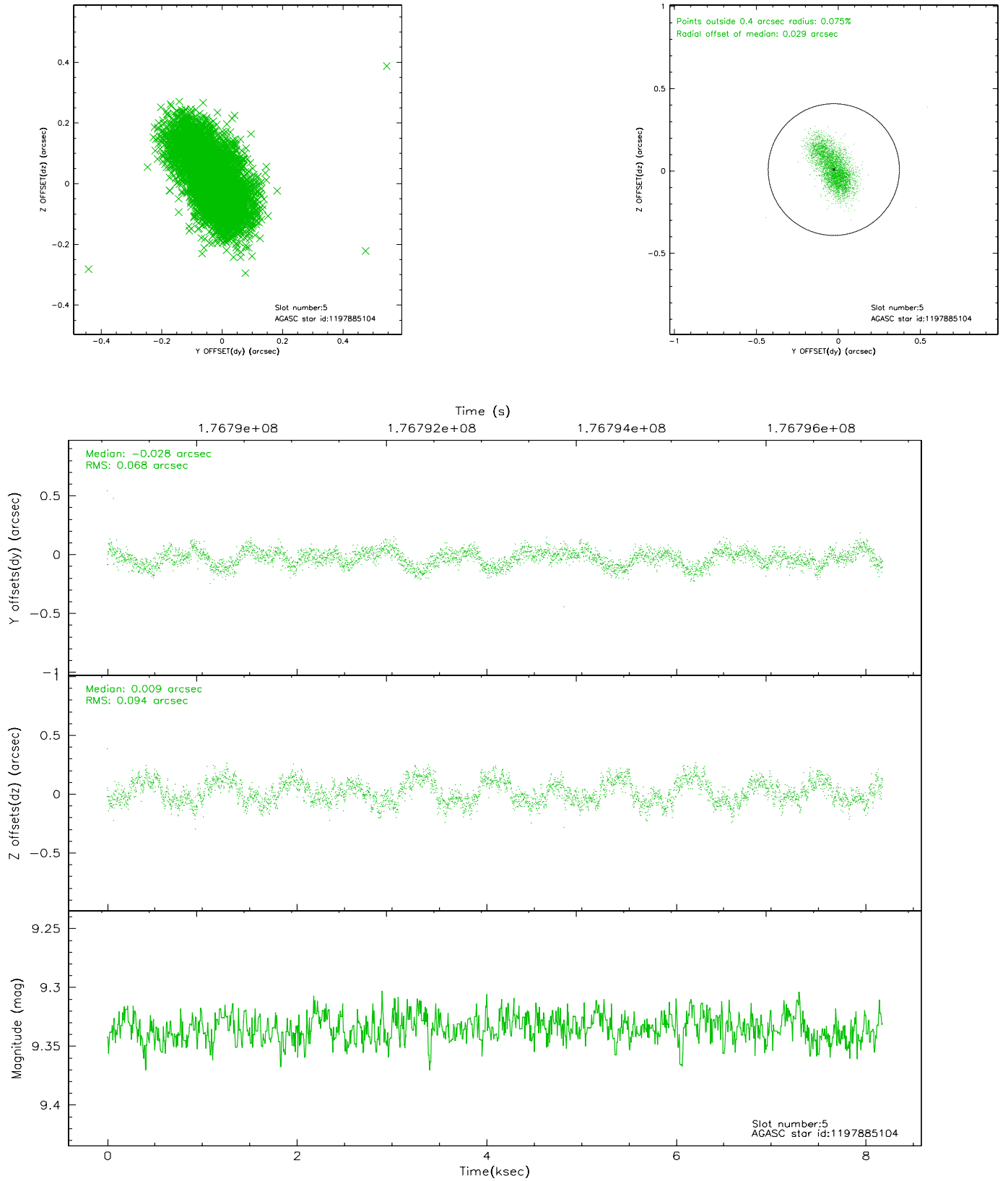
2.4.1 Slot 3



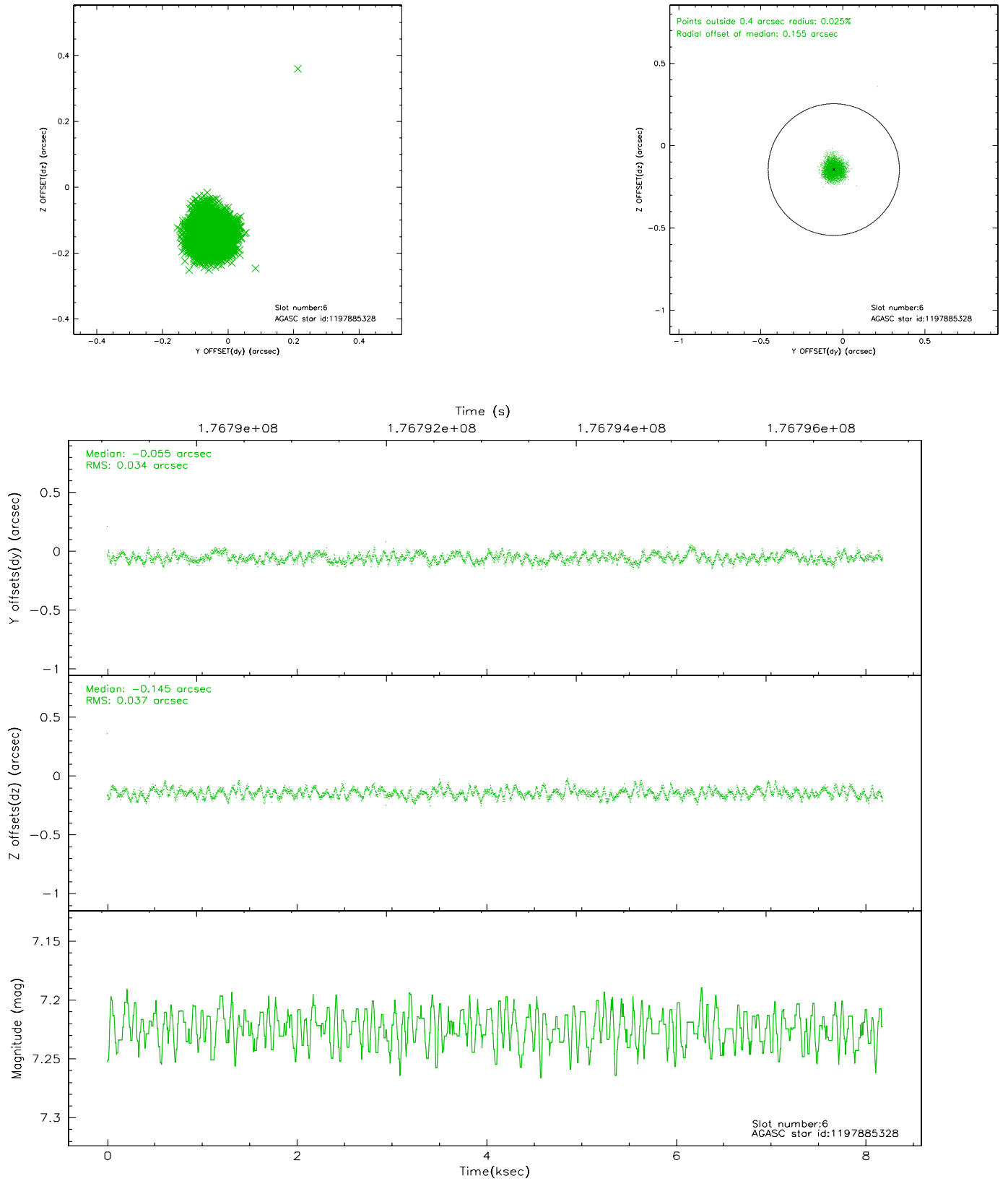
2.4.2 Slot 4



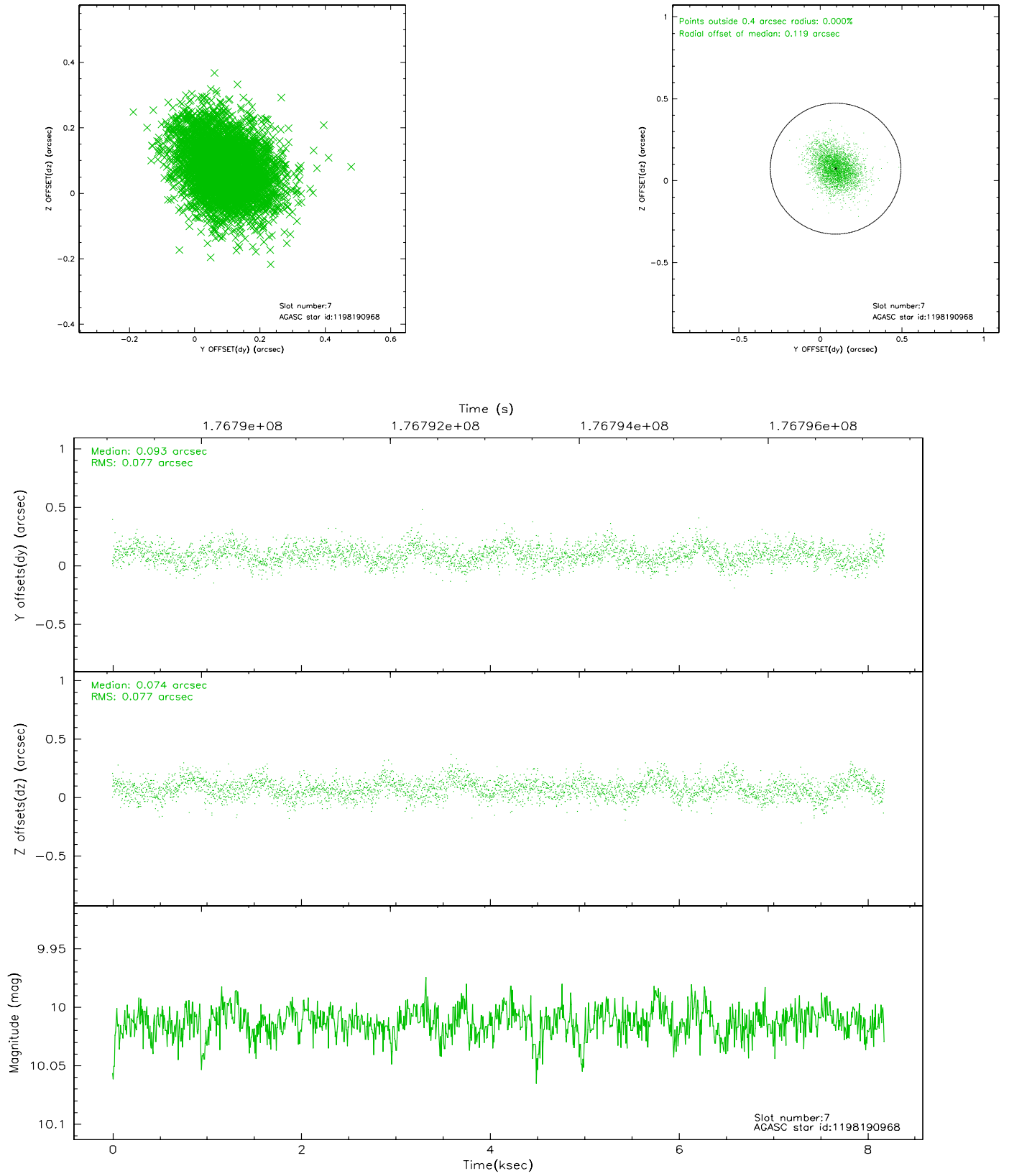
2.4.3 Slot 5



2.4.4 Slot 6

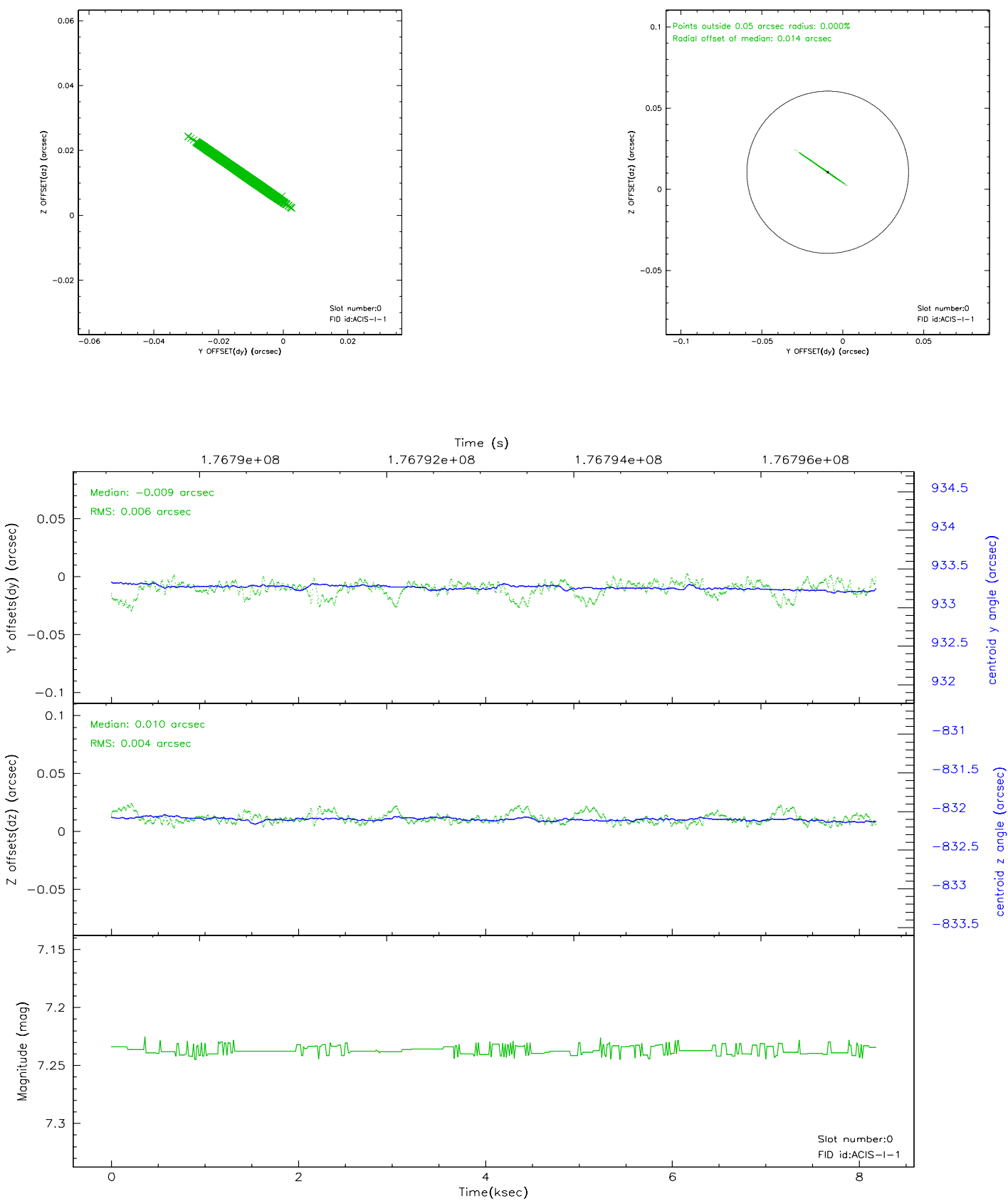


2.4.5 Slot 7

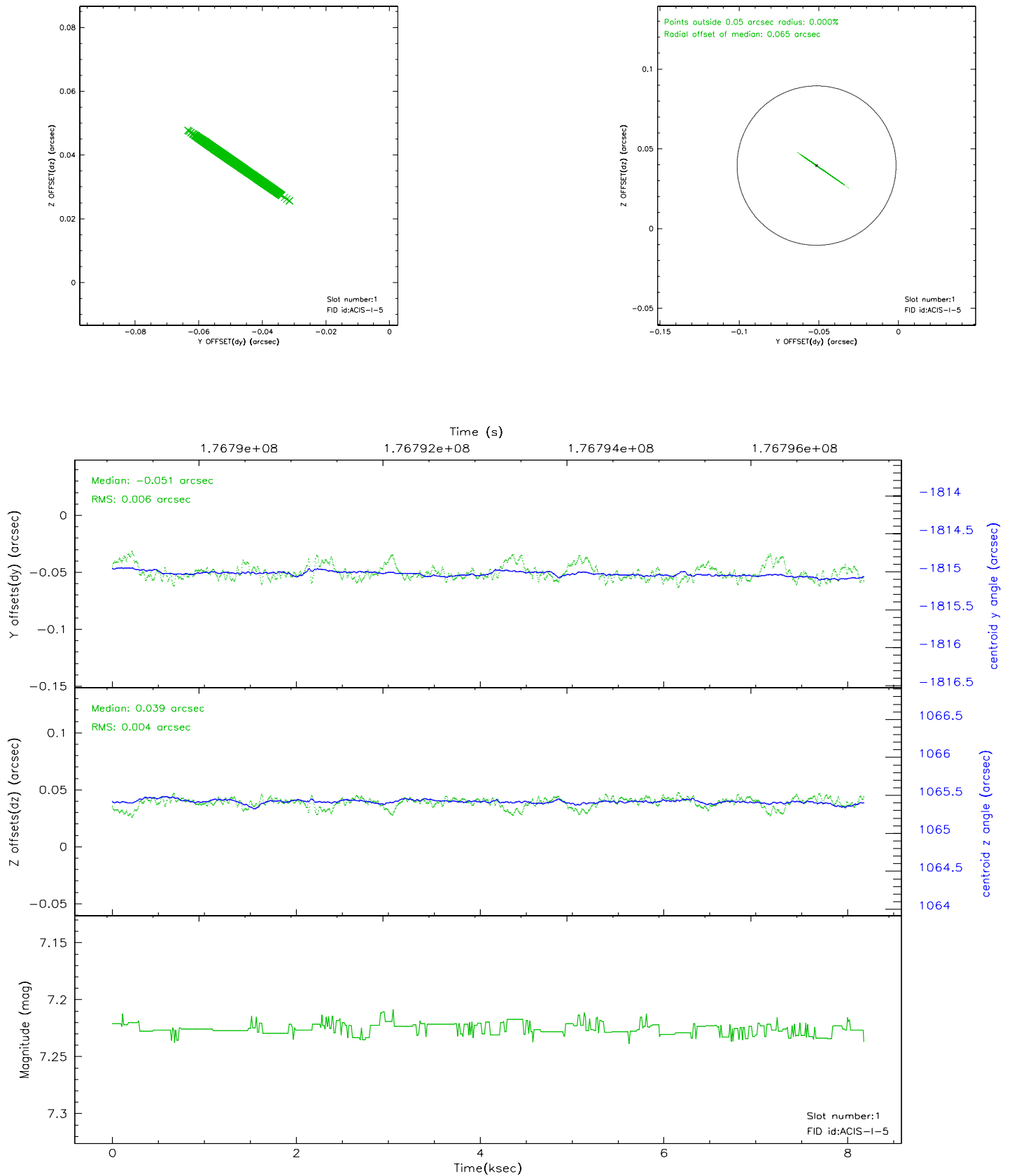


2.5 FID Slots

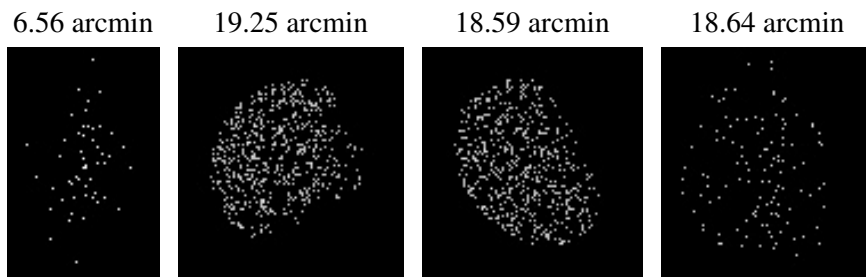
2.5.1 Slot 0



2.5.2 Slot 1



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2010.10.01 |
| V&V Edition | 2 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.75 |

A.2 Comments

The guide star in slot 2 was manually excluded from the processing due to poor data quality.
Window constraint met.