

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 5760 - L2 Version 3
Chandra X-Ray Center

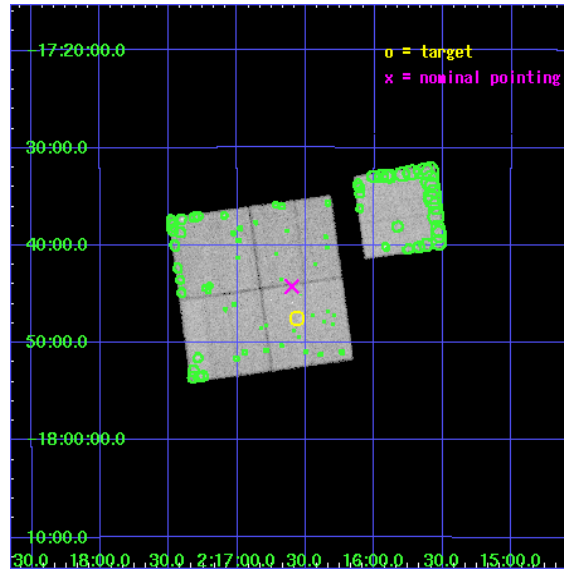
L2 Processing Date : Jan 14 2009

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1 Front

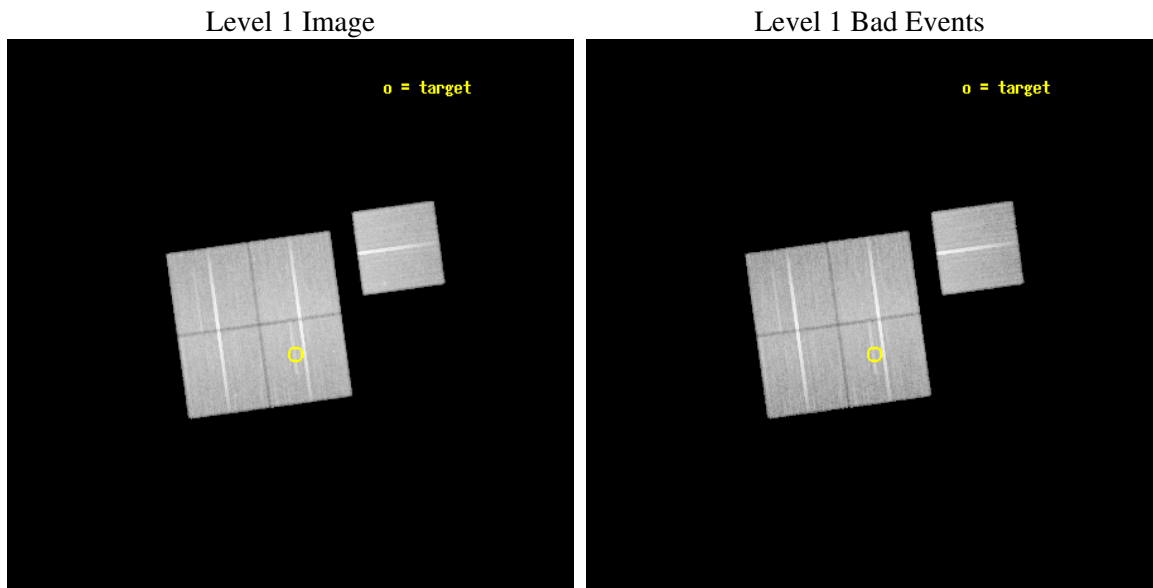
| | |
|----------|---|
| seq_num | 800473 |
| obs_id | 5760 |
| title | DARK ENERGY WITH X-RAY CLUSTERS: CHANDRA OBSERVATIONS OF 41 HIGH-REDSHIFT CLUSTERS FROM THE 400 deg^2 ROSAT PSPC SURVEY |
| observer | Dr Alexey Vikhlinin |
| object | cl0216-1747 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 34.140417 |
| dec_targ | -17.790833 |
| ra_nom | 34.15030985044 |
| dec_nom | -17.737352756396 |
| roll_nom | 82.117005749933 |
| revision | 3 |
| ontime | 40573.974458516 |
| livetime | 40043.84561209 |
| ontime0 | 40611.666460633 |
| ontime1 | 40605.384530067 |
| ontime2 | 40517.435957074 |
| ontime3 | 40573.974458516 |
| ontime6 | 40617.9483518 |
| l2events | 277490 |



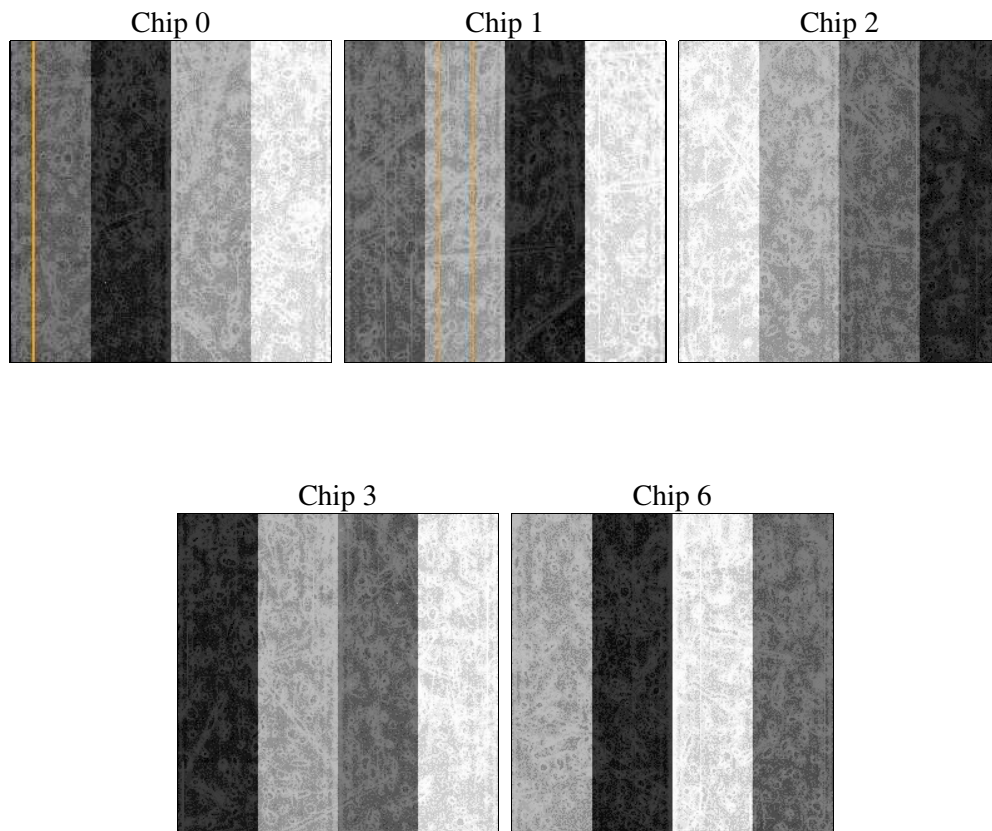
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.11.10 |
| caldbver | 3.5.1 |
| date | 2009-01-14T05:08:09 |
| revision | 3 |

| | |
|----------------|-----------------|
| sched_exp_time | 62000.000000 |
| ontime | 40573.974458516 |
| ontime0 | 40611.666460633 |
| ontime1 | 40605.384530067 |
| ontime2 | 40517.435957074 |
| ontime3 | 40573.974458516 |
| ontime6 | 40617.9483518 |
| l1events | 1641365 |

2.1.4 Events

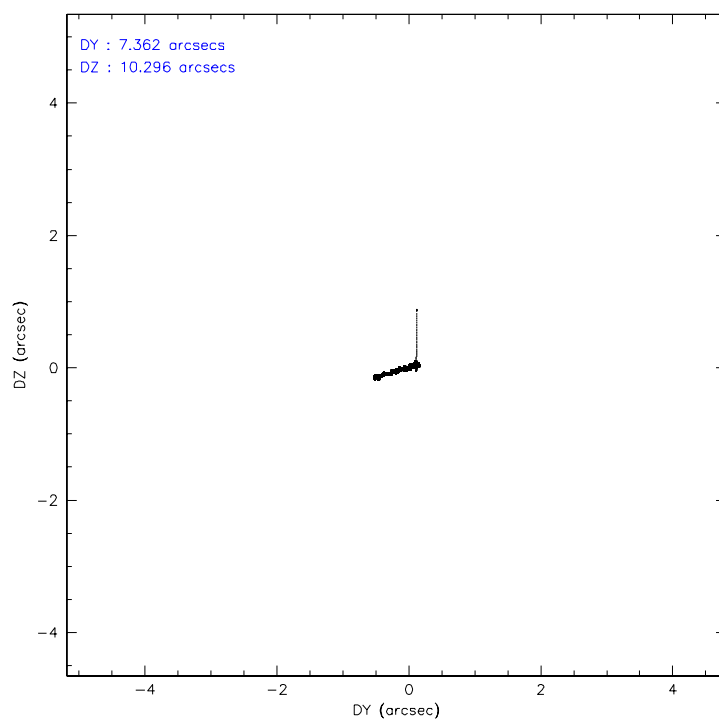
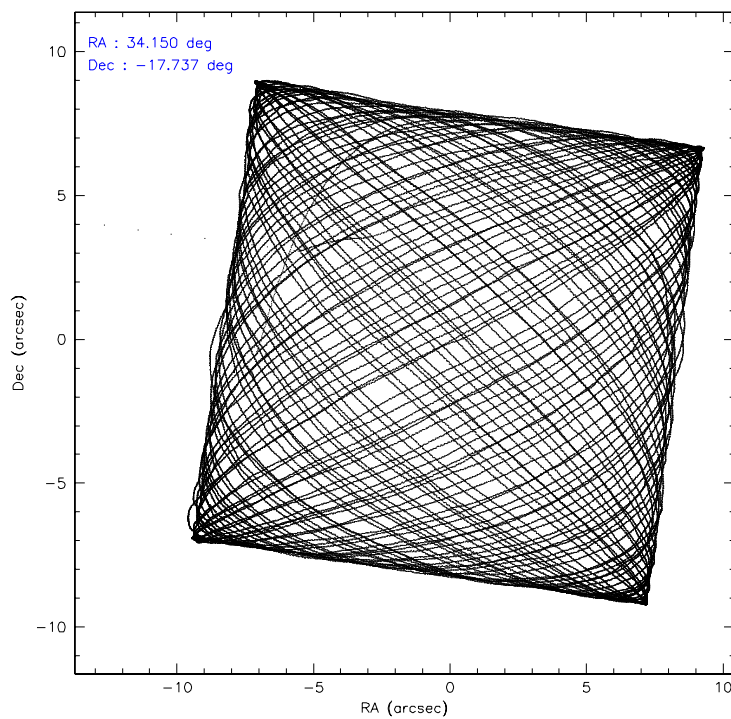
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|--------|--------|--------|--------|--------|
| level 1 events | 314159 | 313179 | 347286 | 328324 | 338417 |
| rejected events | 254191 | 248763 | 287841 | 267251 | 270845 |
| rejected % | 80% | 79% | 82% | 81% | 80% |

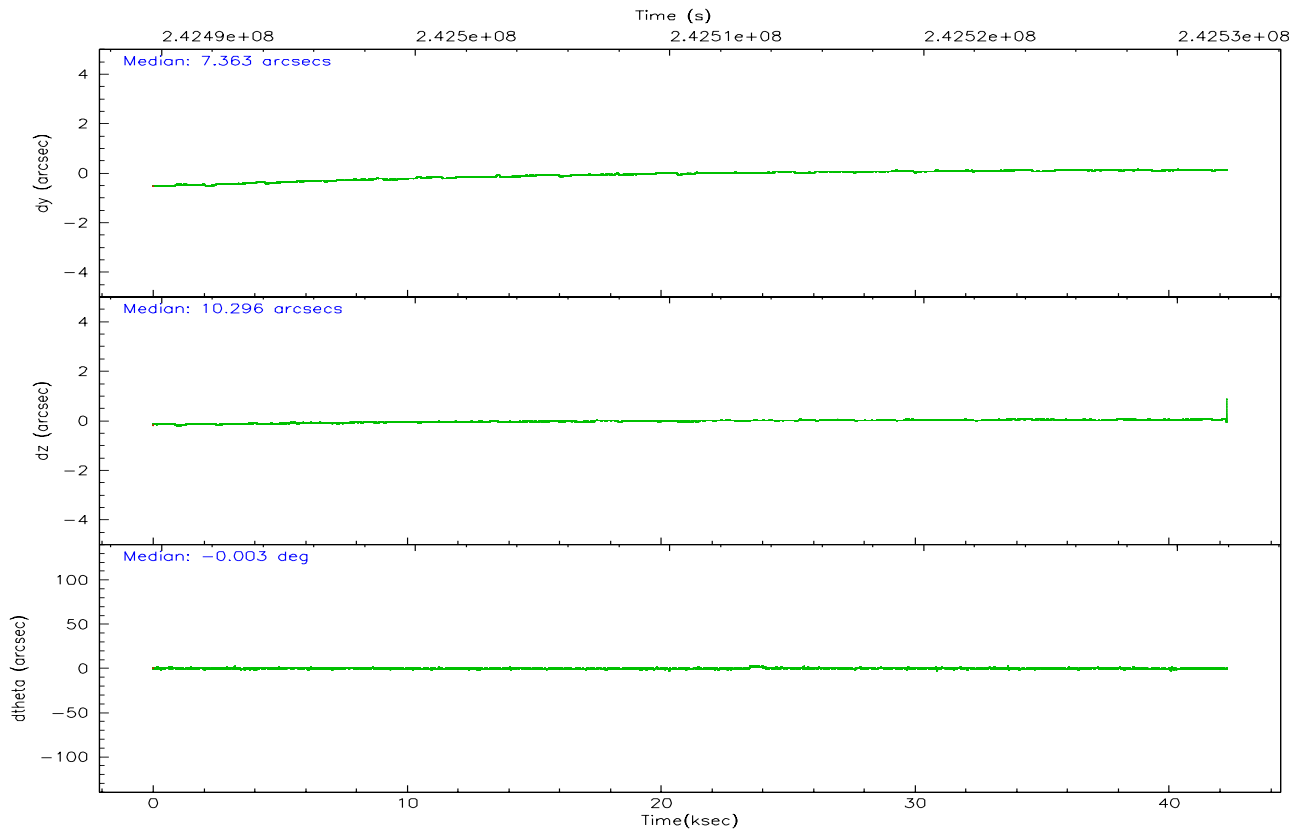
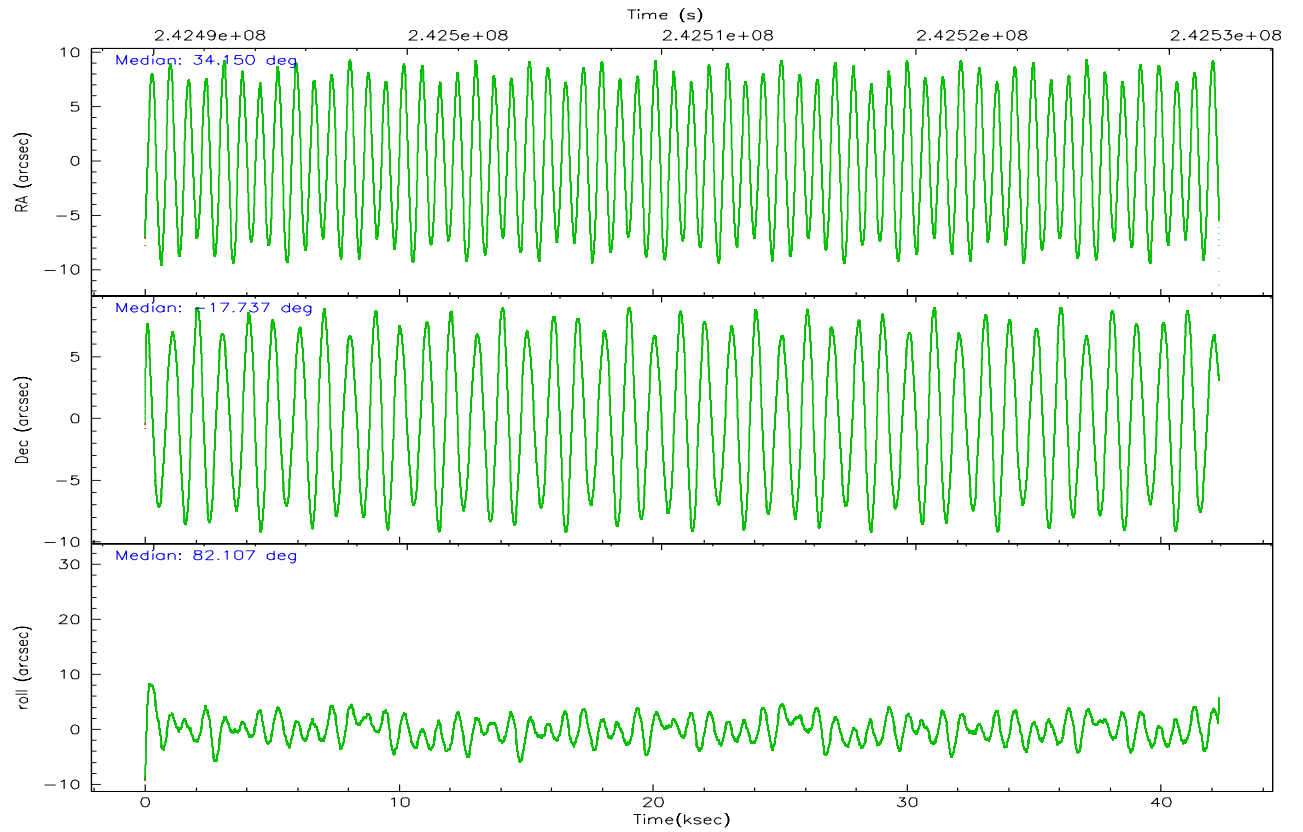
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|--------|--------|--------|--------|--------|
| grade 0 events | 21399 | 23377 | 22332 | 22477 | 23323 |
| | 6% | 7% | 6% | 6% | 6% |
| grade 1 events | 247 | 199 | 279 | 257 | 231 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 12305 | 12876 | 11437 | 11626 | 12418 |
| | 3% | 4% | 3% | 3% | 3% |
| grade 3 events | 5431 | 5604 | 5281 | 5540 | 5598 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 4 events | 5236 | 5599 | 5382 | 5437 | 5702 |
| | 1% | 1% | 1% | 1% | 1% |
| grade 5 events | 8919 | 10245 | 8525 | 10433 | 10708 |
| | 2% | 3% | 2% | 3% | 3% |
| grade 6 events | 15635 | 17013 | 15059 | 16033 | 20576 |
| | 4% | 5% | 4% | 4% | 6% |
| grade 7 events | 244987 | 238266 | 278991 | 256521 | 259861 |
| | 77% | 76% | 80% | 78% | 76% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-01236 | ACIS-01236 | 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 | 34.161237 | 34.1503098504397 | Alternating exposures requested | N | N |
| Pointing Dec | -17.762676 | -17.73735275639622 | Primary exposure time | 0.000000 | 3.1 |
| Pointing Roll | 81.911653 | 82.1170057499327 | | | |
| SIM focus pos (mm) | -0.782348 | -0.7809083437167272 | | | |
| SIM defocus (mm) | 0 | 0.001439871863259334 | | | |
| SIM translation stage pos (mm) | -225.840463 | -225.8458576473255 | | | |
| SIM translation stage offset (mm) | -7.752 | -7.746595355604228 | | | |
| Observation start time | 242489787.184000 | 242488223.71846 | | | |
| Observation start date | 2005-09-07T14:15:23 | 2005-09-07T13:50:23 | | | |
| Observation end time | 242551787.184000 | 242531962.52047 | | | |
| Observation end date | 2005-09-08T07:28:43 | 2005-09-08T01:59:22 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



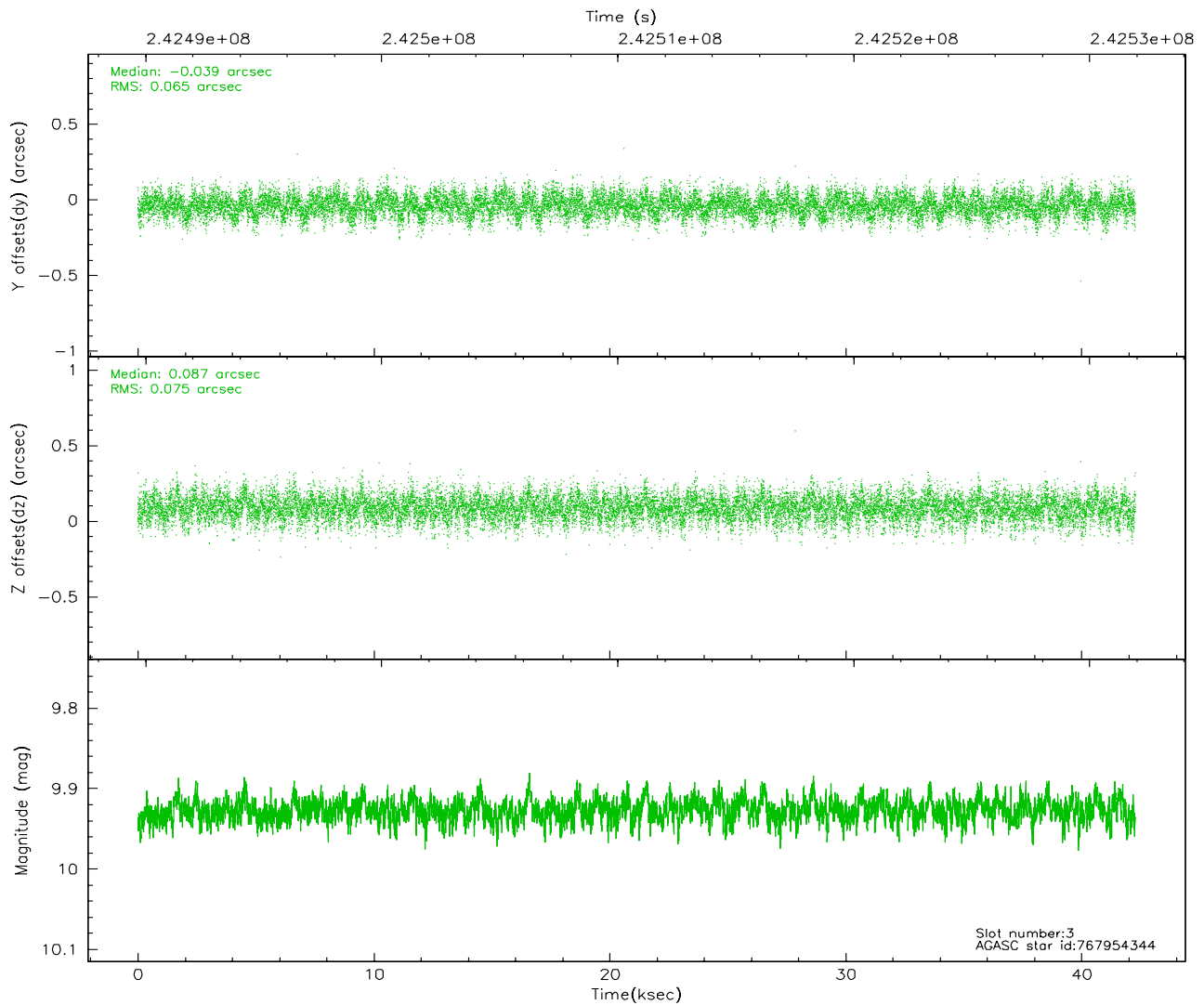
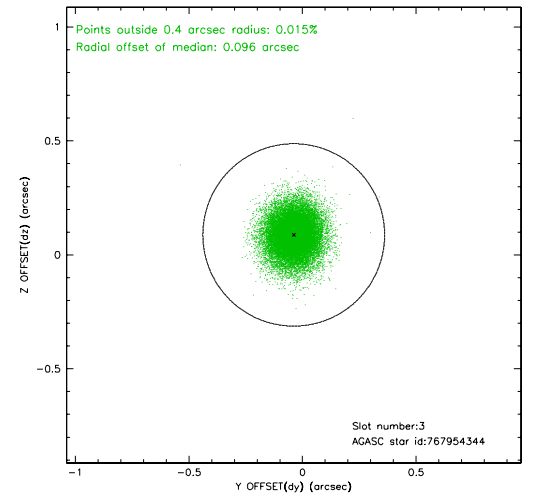
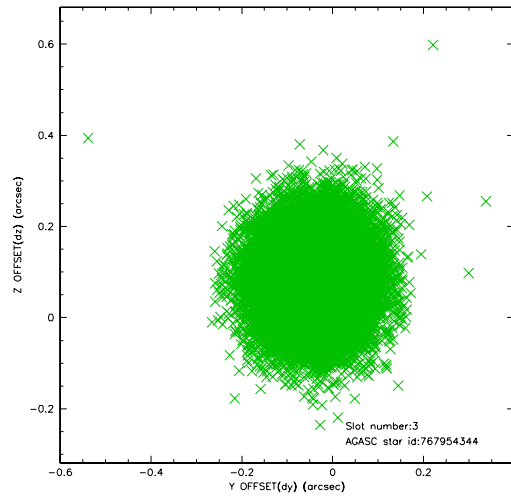


Slot Statistics

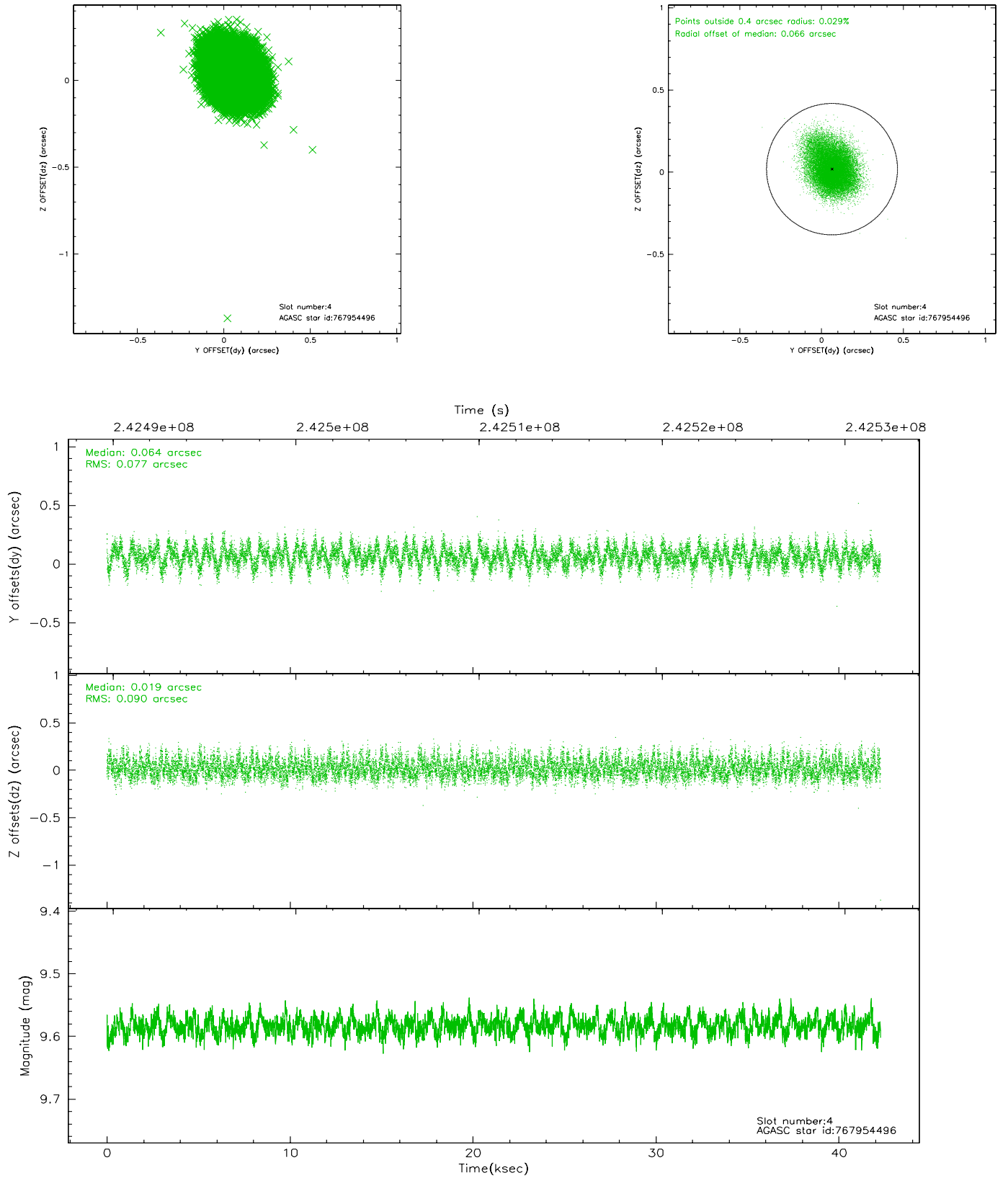
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0 | FID | ACIS-I-2 | 7.18 | 10311 | -0.067 | -0.052 | 0.012 | 0.020 | 0.000000 | 0.000000 | -762.40 | -998.17 |
| 1 | FID | ACIS-I-4 | 7.14 | 10311 | 0.091 | 0.058 | 0.012 | 0.026 | 0.000000 | 0.000000 | 2151.77 | 908.05 |
| 2 | FID | ACIS-I-5 | 7.22 | 10314 | -0.123 | 0.063 | 0.013 | 0.021 | 0.000000 | 0.000000 | -1815.88 | 904.91 |
| 3 | GUIDE | 767954344 | 9.93 | 20586 | -0.039 | 0.087 | 0.106 | 0.171 | 34.586205 | -18.281873 | -1647.42 | -1701.24 |
| 4 | GUIDE | 767954496 | 9.58 | 20594 | 0.064 | 0.019 | 0.126 | 0.204 | 34.611505 | -18.207511 | -1370.48 | -1749.86 |
| 5 | GUIDE | 767955344 | 10.18 | 20518 | 0.071 | 0.055 | 0.148 | 0.241 | 34.625163 | -17.912842 | -313.39 | -1649.14 |
| 6 | GUIDE | 767955440 | 9.87 | 20574 | -0.071 | 0.017 | 0.109 | 0.177 | 34.470038 | -17.879304 | -267.46 | -1106.33 |
| 7 | GUIDE | 767957440 | 9.16 | 20604 | -0.026 | -0.181 | 0.081 | 0.132 | 33.627958 | -17.789270 | -354.80 | 1795.80 |

2.4 Star Slots

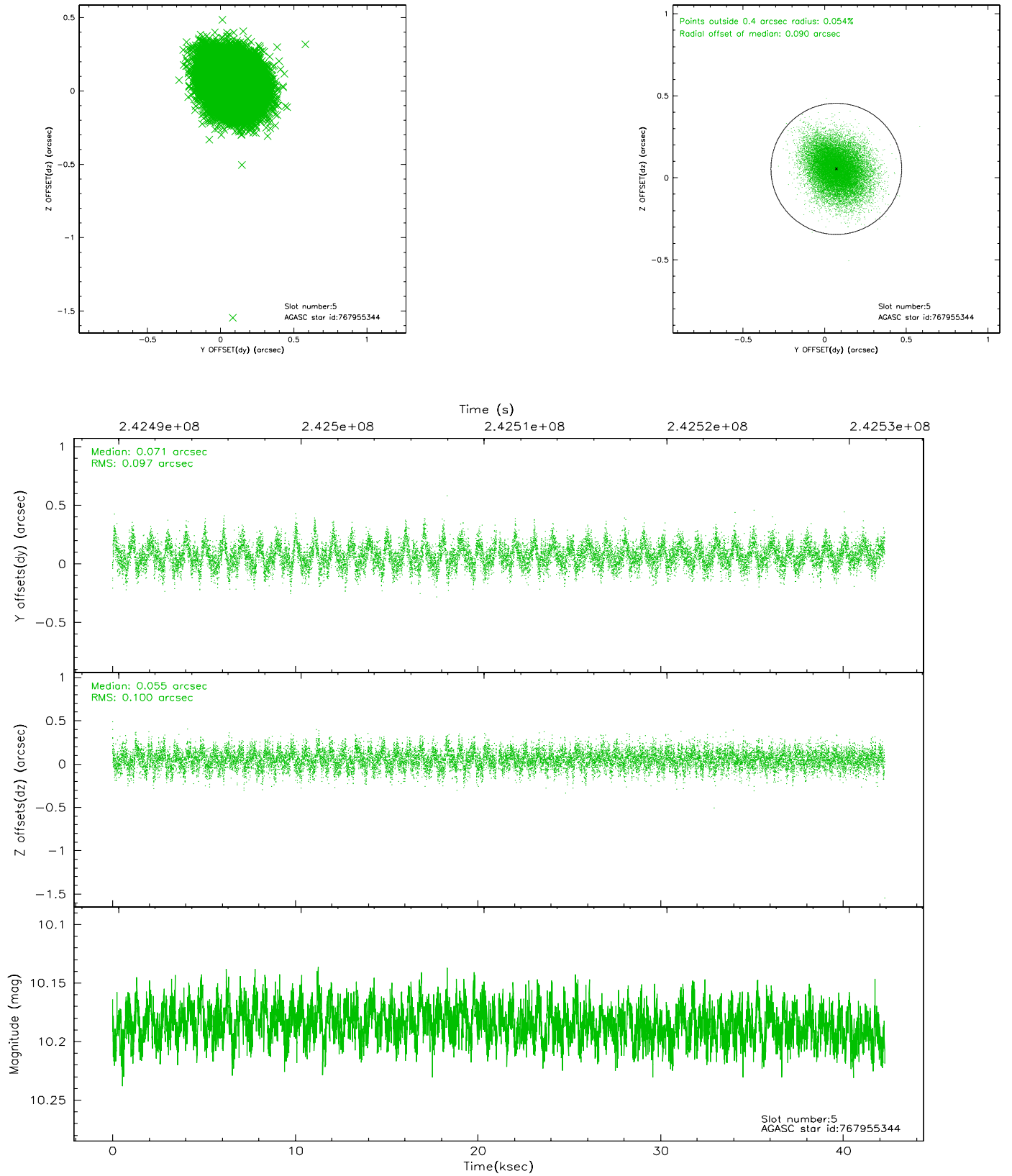
2.4.1 Slot 3



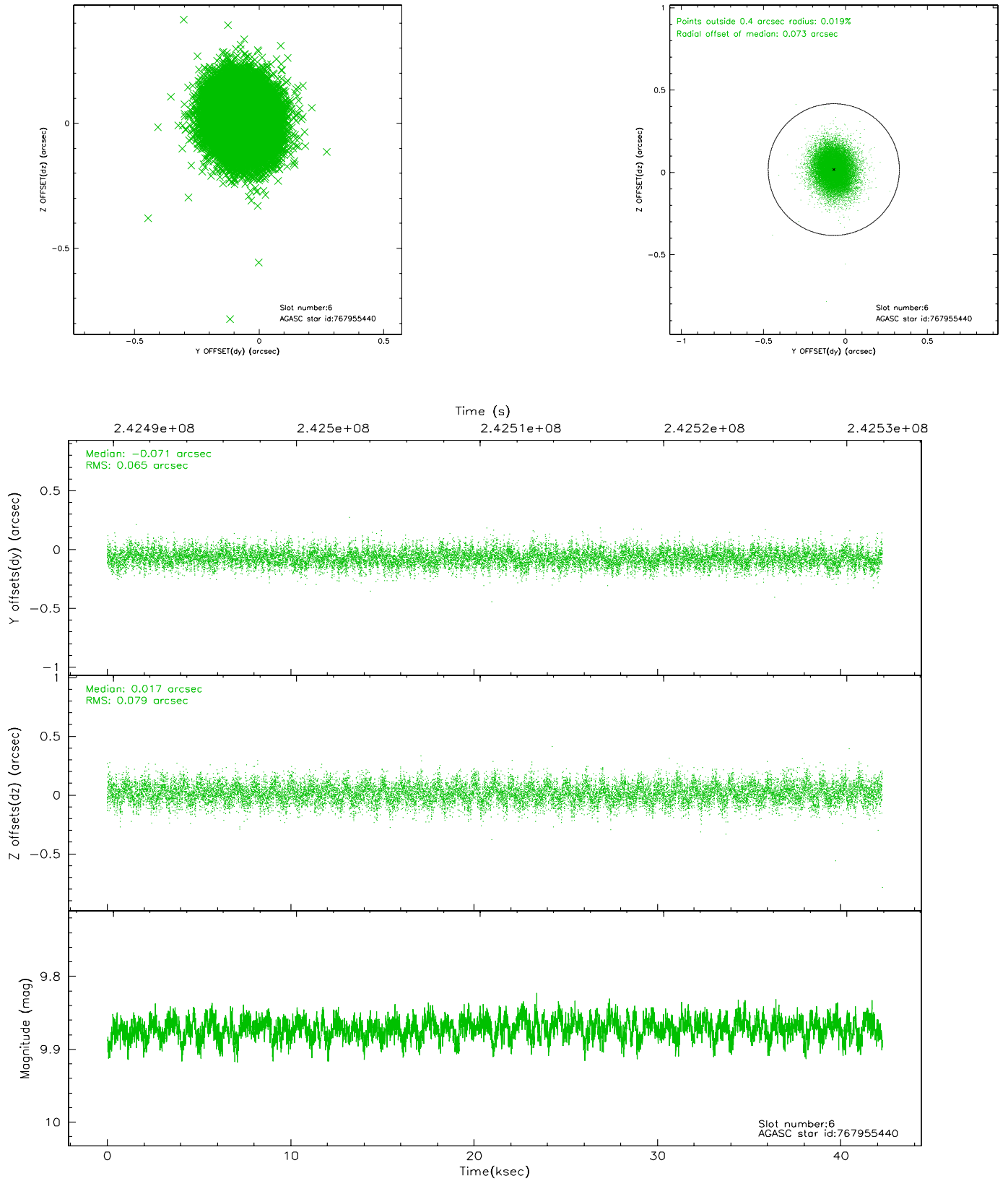
2.4.2 Slot 4



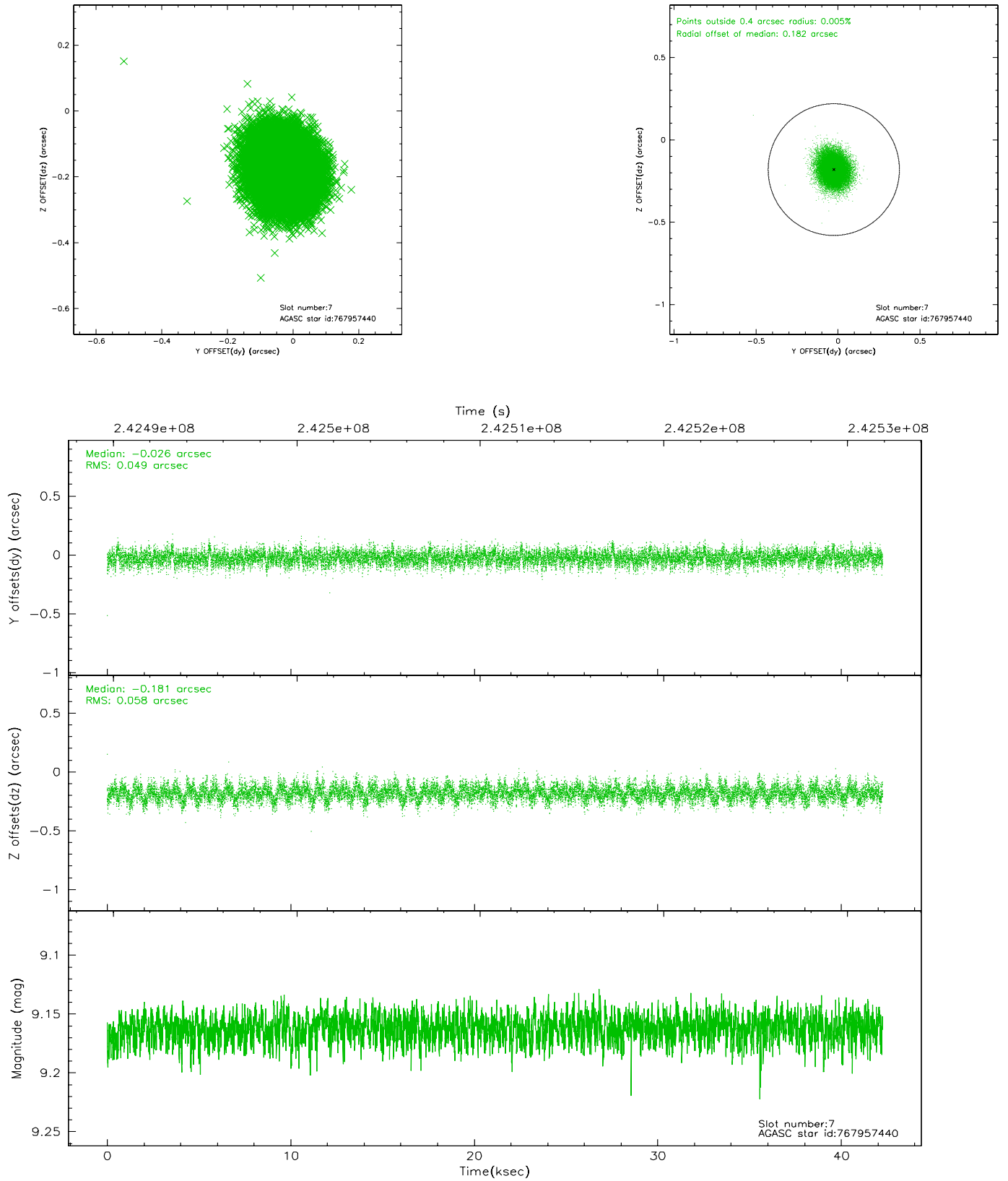
2.4.3 Slot 5



2.4.4 Slot 6

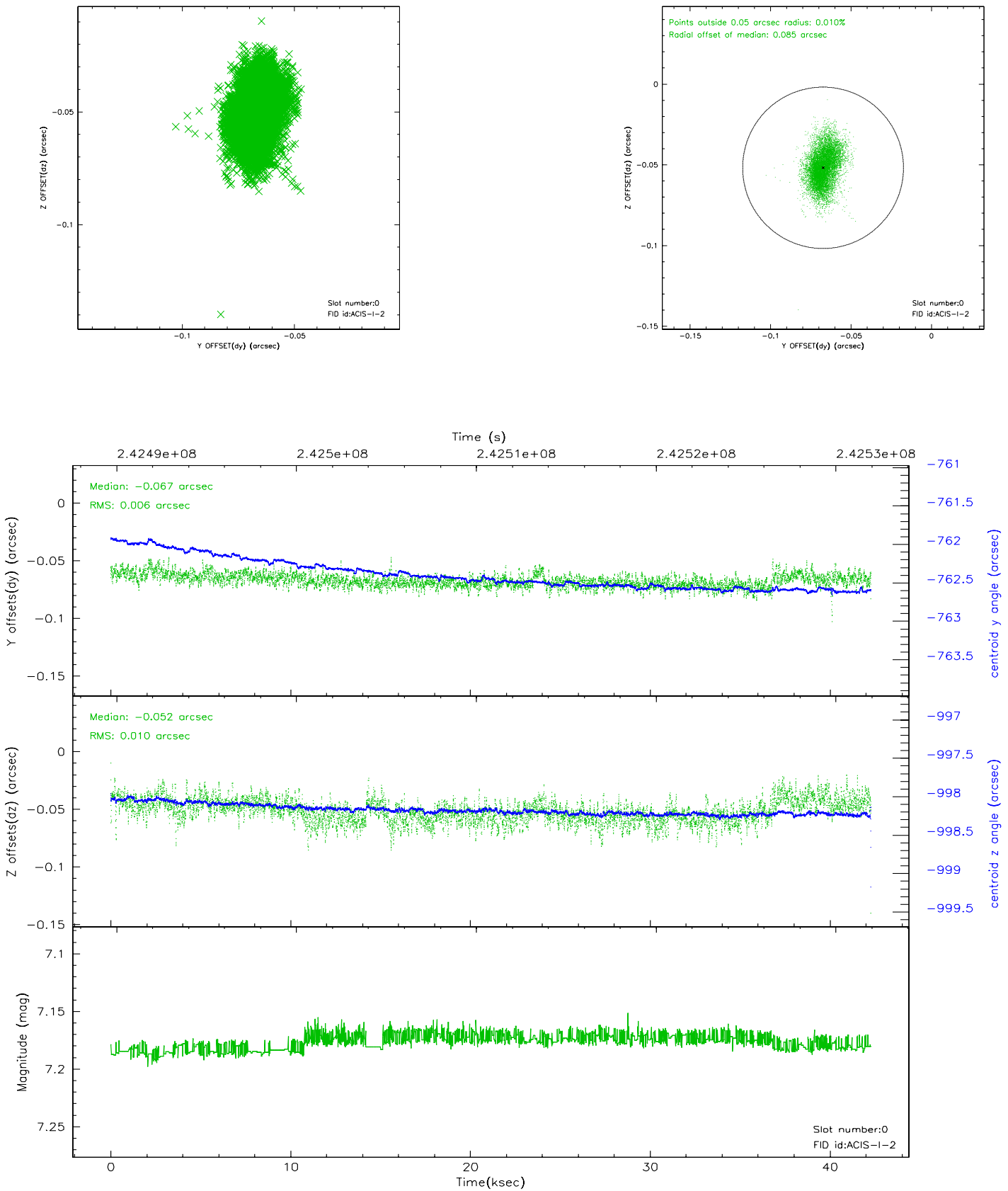


2.4.5 Slot 7

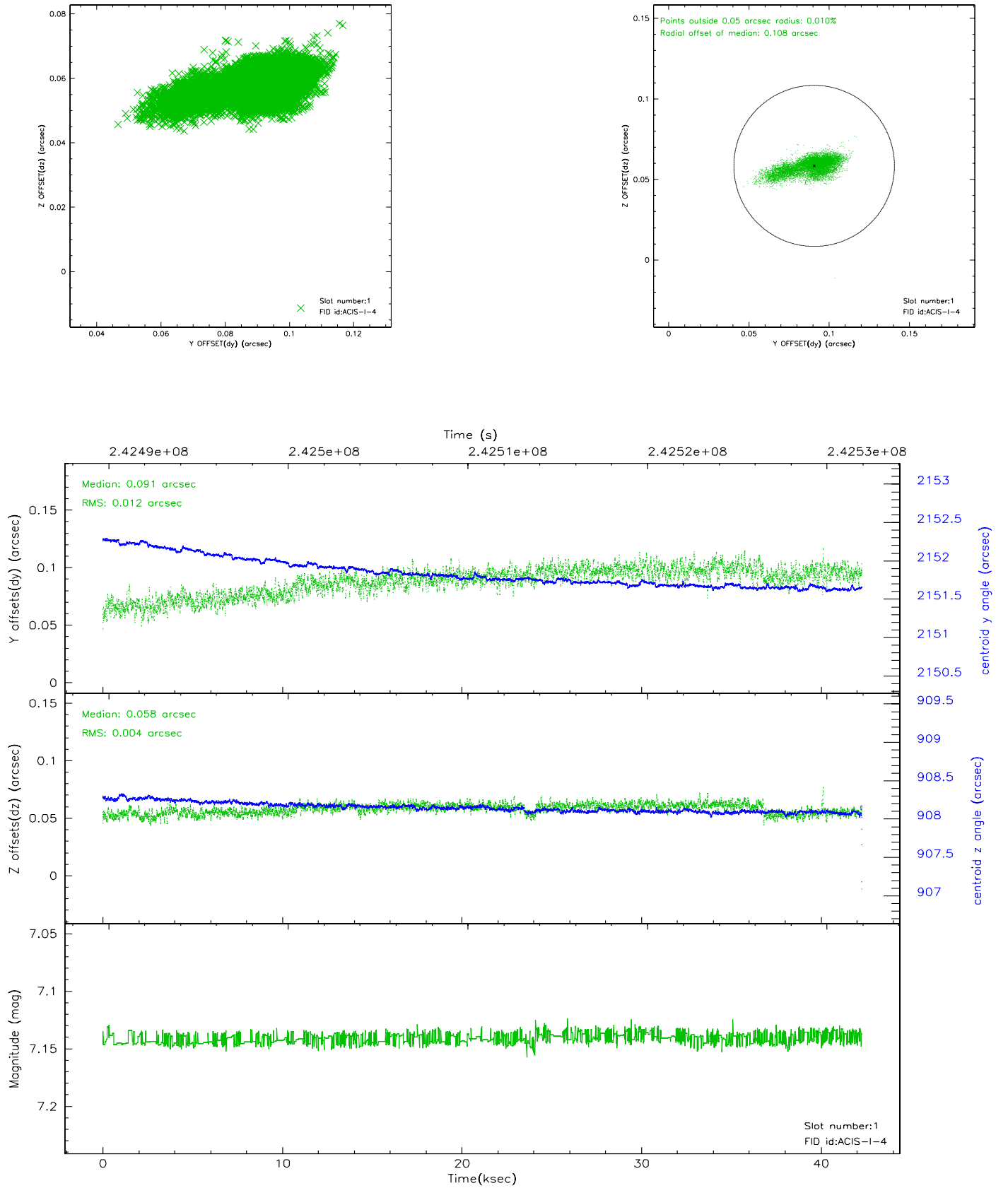


2.5 FID Slots

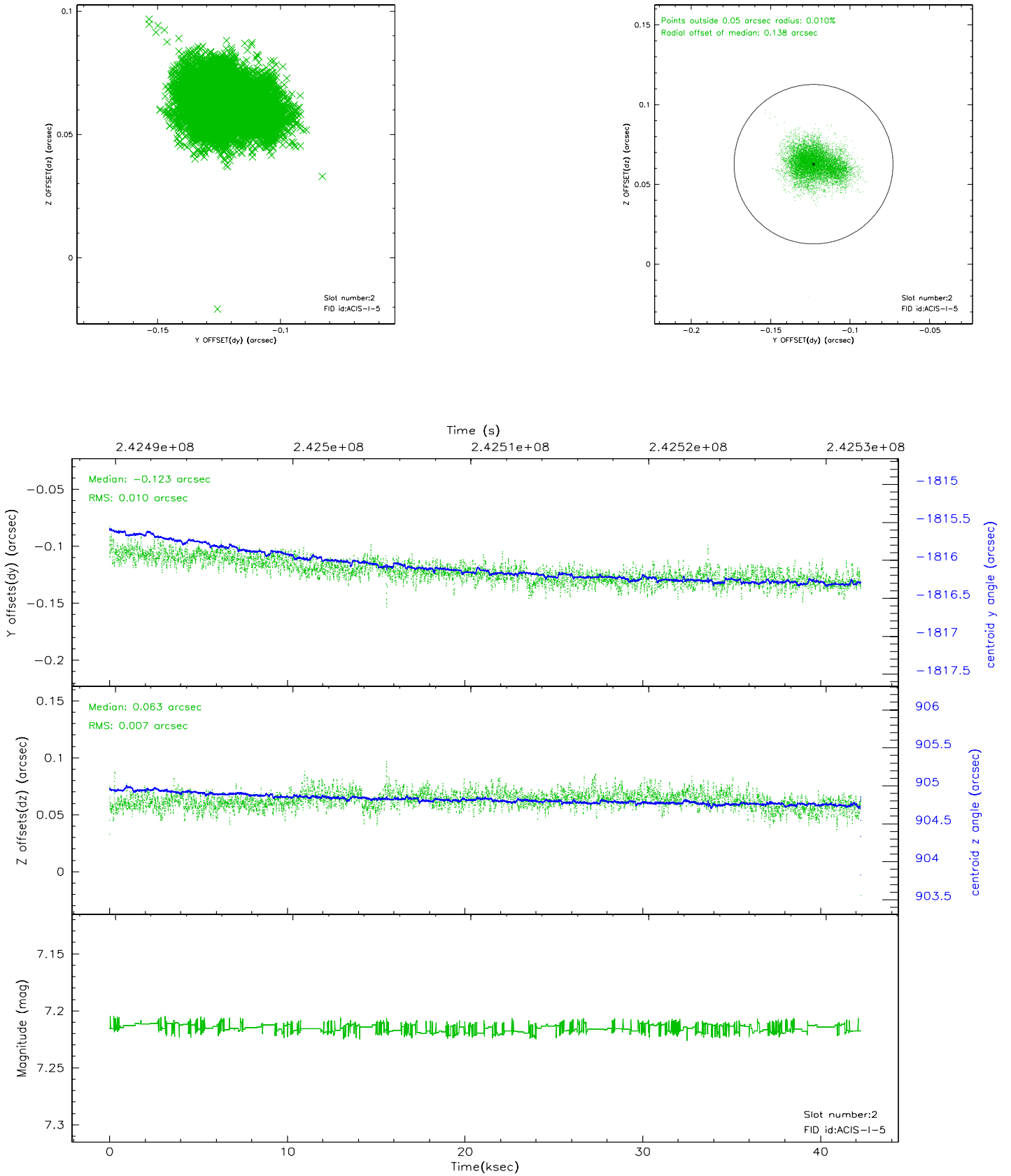
2.5.1 Slot 0



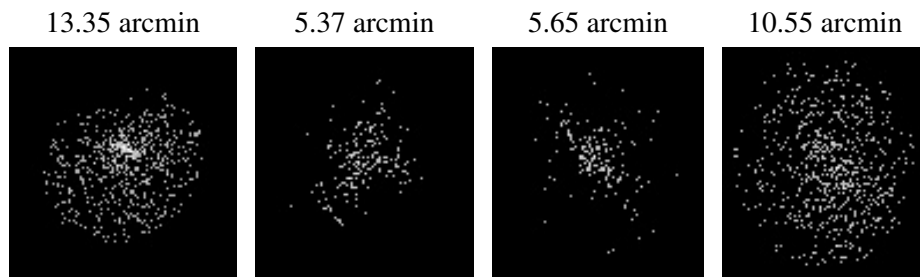
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2009.01.15 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 40.57397 |

A.2 Comments

This observation was interrupted by safing of the science instruments due to high solar radiation environment. The observation was interrupted at 2005:251:01:57:56.