

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 6995 - L2 Version 002
Chandra X-Ray Center

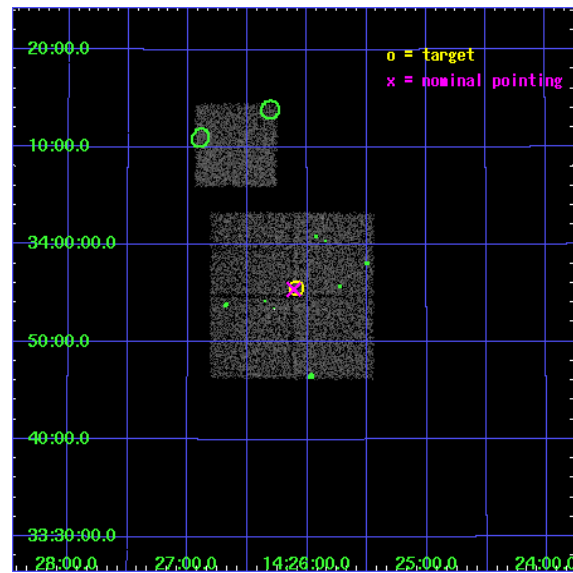
L2 Processing Date : Apr 4 2006

Contents

| | | |
|----------|-------------------------------|-----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Aspect | 6 |
| 2.4 | Star Slots | 9 |
| 2.4.1 | Slot 3 | 9 |
| 2.4.2 | Slot 4 | 10 |
| 2.4.3 | Slot 5 | 11 |
| 2.4.4 | Slot 6 | 12 |
| 2.4.5 | Slot 7 | 13 |
| 2.5 | FID Slots | 14 |
| 2.5.1 | Slot 0 | 14 |
| 2.5.2 | Slot 1 | 15 |
| 2.5.3 | Slot 2 | 16 |
| 3 | Point Sources | 17 |
| A | Summary | 18 |
| A.1 | Status | 18 |
| A.2 | Comments | 18 |

1 Front

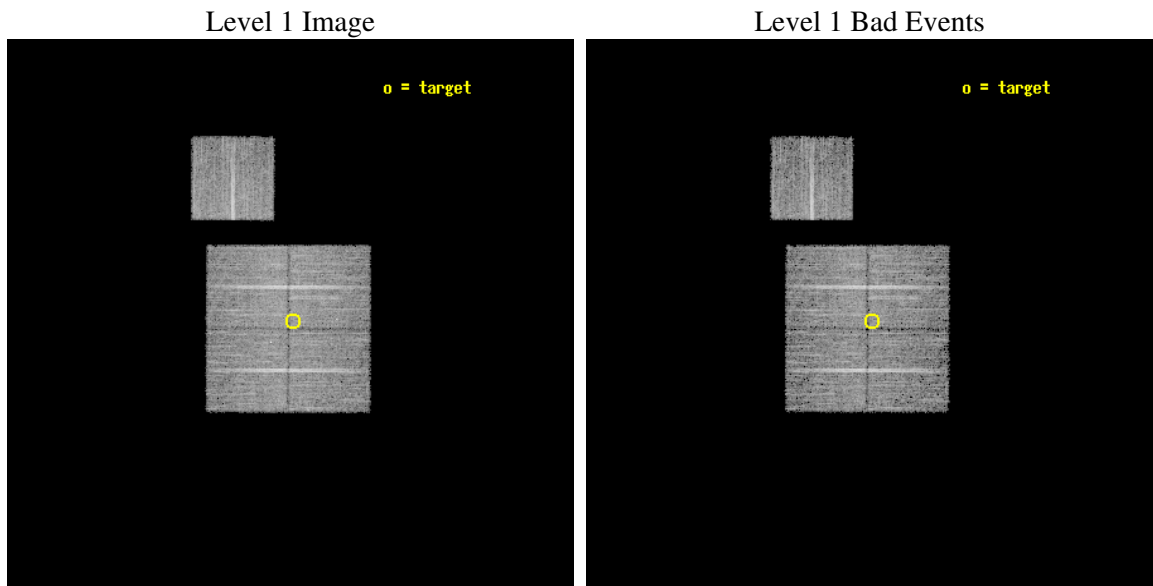
| | |
|----------|--|
| seq_num | 900411 |
| obs_id | 6995 |
| title | Chandra Large Scale Survey of the NOAO Bootes Deep Field (A) |
| observer | Dr. Stephen Murray |
| object | Bootes2 17 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 216.52275 |
| dec_targ | 33.925417 |
| ra_nom | 216.5278160405 |
| dec_nom | 33.923628765233 |
| roll_nom | 0.20584155898815 |
| revision | 2 |
| ontime | 10050.199980676 |
| livetime | 9918.8867190791 |
| ontime0 | 10047.058990508 |
| ontime1 | 10050.199980676 |
| ontime2 | 10043.918030232 |
| ontime3 | 10050.199980676 |
| ontime6 | 10047.059010446 |
| l2events | 25752 |



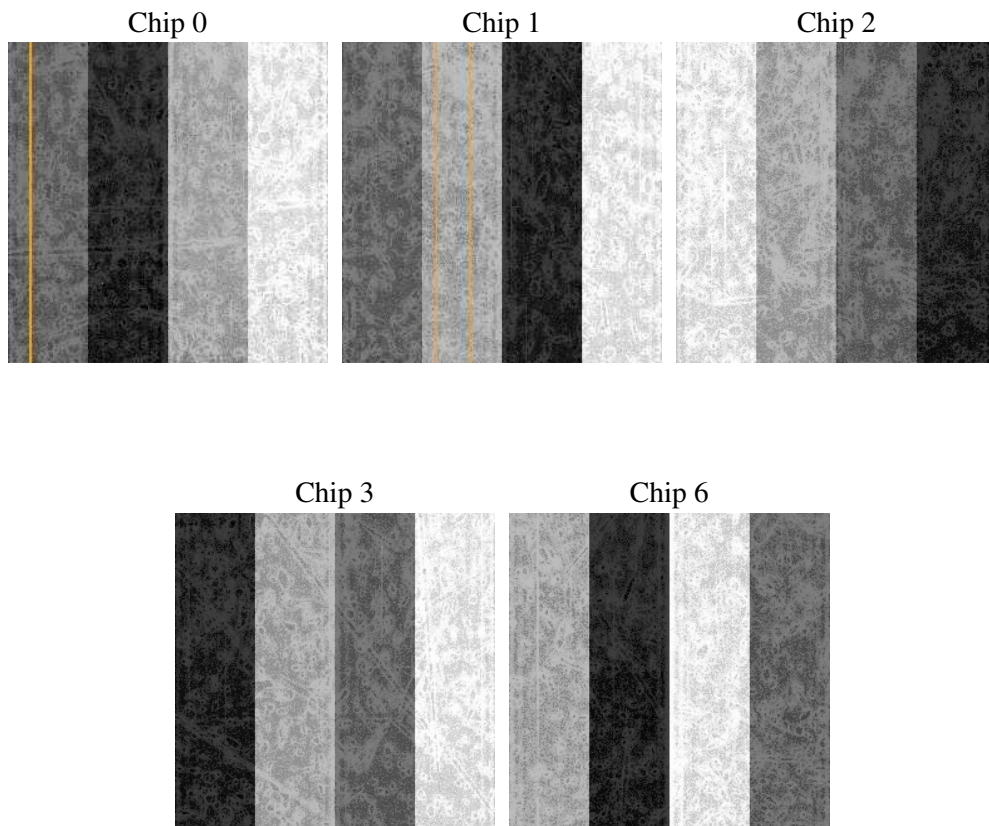
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.7.1 |
| caldbver | 3.2.1 |
| date | 2006-04-04T15:53:00 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 10000.000000 |
| ontime | 10054.344934136 |
| ontime0 | 10051.203943968 |
| ontime1 | 10054.344934136 |
| ontime2 | 10048.062983692 |
| ontime3 | 10054.344934136 |
| ontime6 | 10051.203963906 |
| llevents | 304699 |

2.1.4 Events

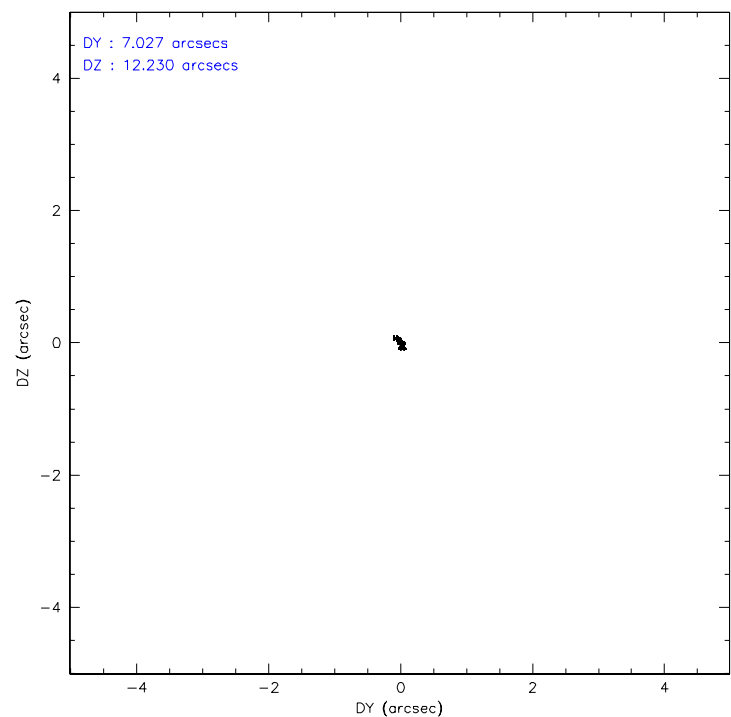
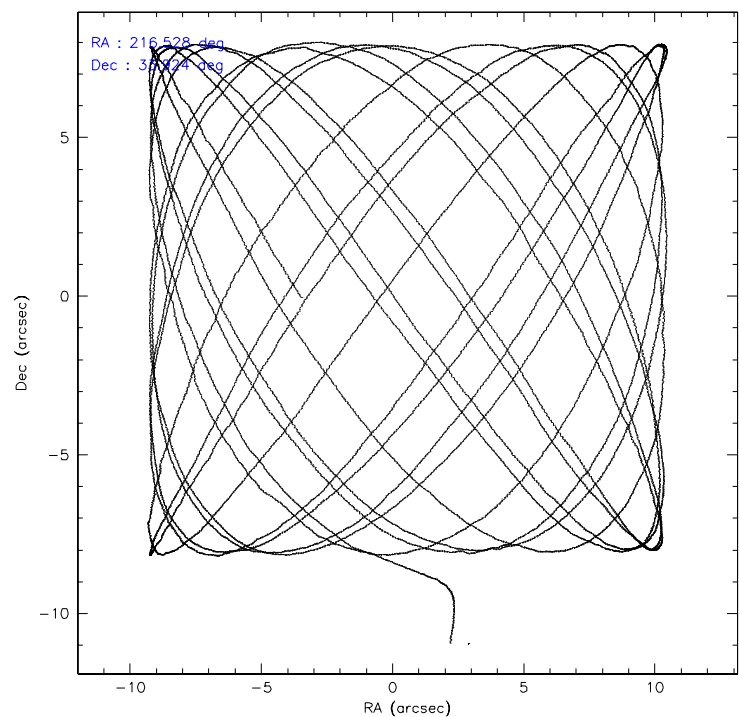
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 60386 | 56670 | 65205 | 61888 | 60550 |
| rejected events | 53898 | 50226 | 59283 | 55938 | 54004 |
| rejected % | 89% | 88% | 90% | 90% | 89% |

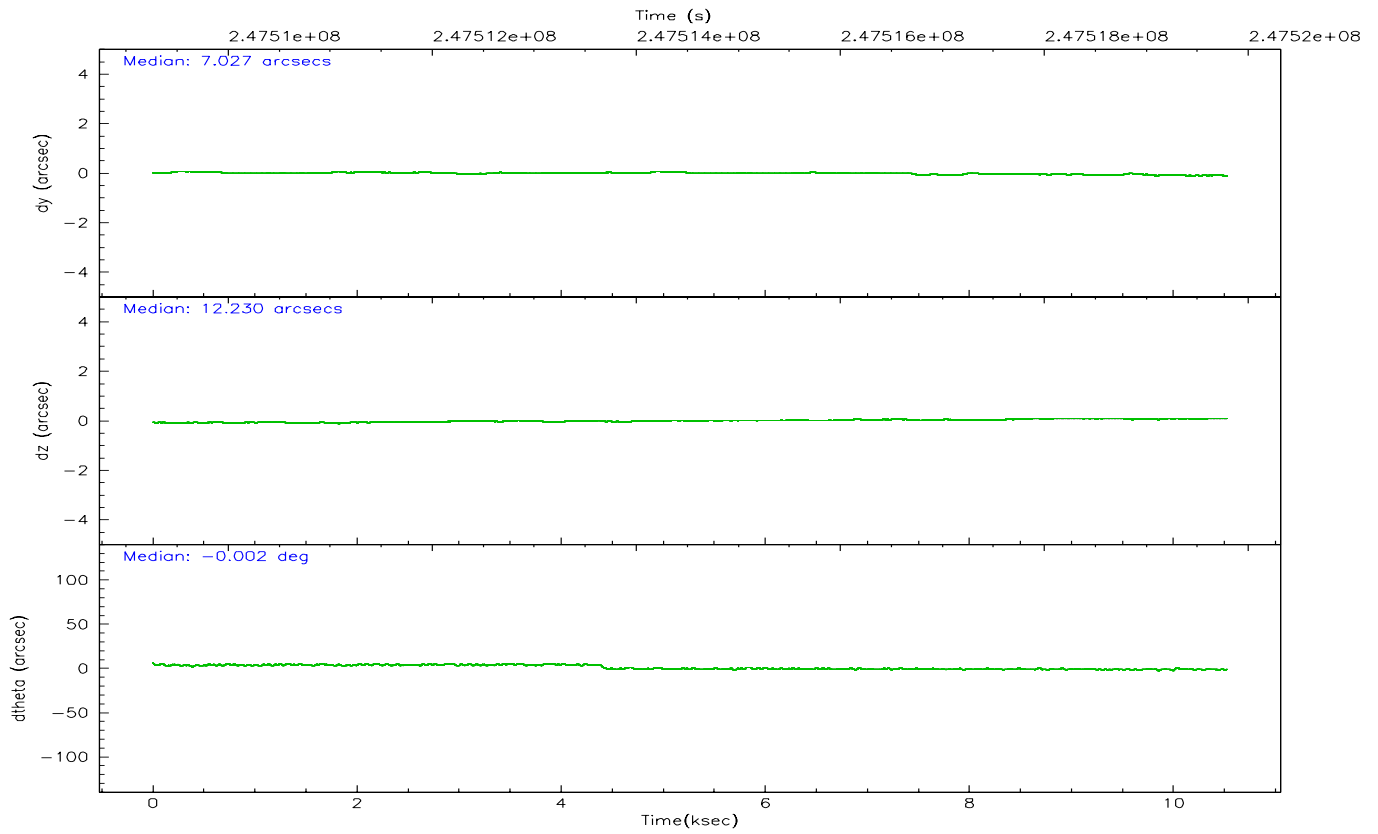
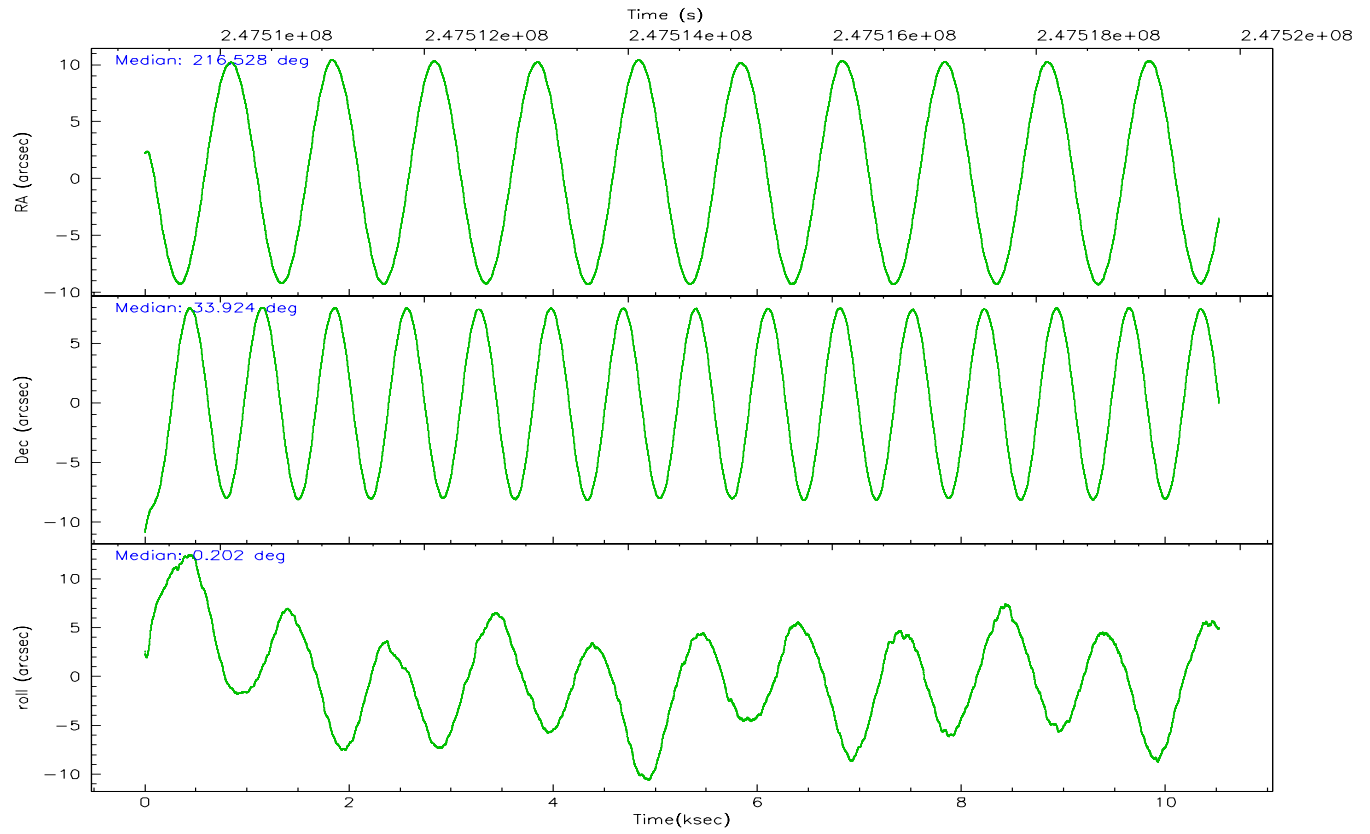
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 2414 | 2176 | 2236 | 2287 | 2455 |
| | 3% | 3% | 3% | 3% | 4% |
| grade 1 events | 23 | 28 | 28 | 36 | 28 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 1562 | 1414 | 1390 | 1233 | 1391 |
| | 2% | 2% | 2% | 1% | 2% |
| grade 3 events | 705 | 776 | 609 | 657 | 736 |
| | 1% | 1% | 0% | 1% | 1% |
| grade 4 events | 686 | 762 | 648 | 655 | 722 |
| | 1% | 1% | 0% | 1% | 1% |
| grade 5 events | 1846 | 2104 | 1618 | 2156 | 2104 |
| | 3% | 3% | 2% | 3% | 3% |
| grade 6 events | 1122 | 1317 | 1039 | 1119 | 1244 |
| | 1% | 2% | 1% | 1% | 2% |
| grade 7 events | 52028 | 48093 | 57637 | 53745 | 51870 |
| | 86% | 84% | 88% | 86% | 85% |

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 | 216.499449 | 216.5278160404968 | Alternating exposures requested | N | N |
| Pointing Dec | 33.909743 | 33.92362876523346 | Primary exposure time | 0.000000 | 3.1 |
| Pointing Roll | 0.012994 | 0.2058415589881521 | | | |
| 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 | 247509790.184000 | 247508693.93703 | | | |
| Observation start date | 2005-11-04T16:42:06 | 2005-11-04T16:24:53 | | | |
| Observation end time | 247519790.184000 | 247519924.35005 | | | |
| Observation end date | 2005-11-04T19:28:46 | 2005-11-04T19:32:04 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



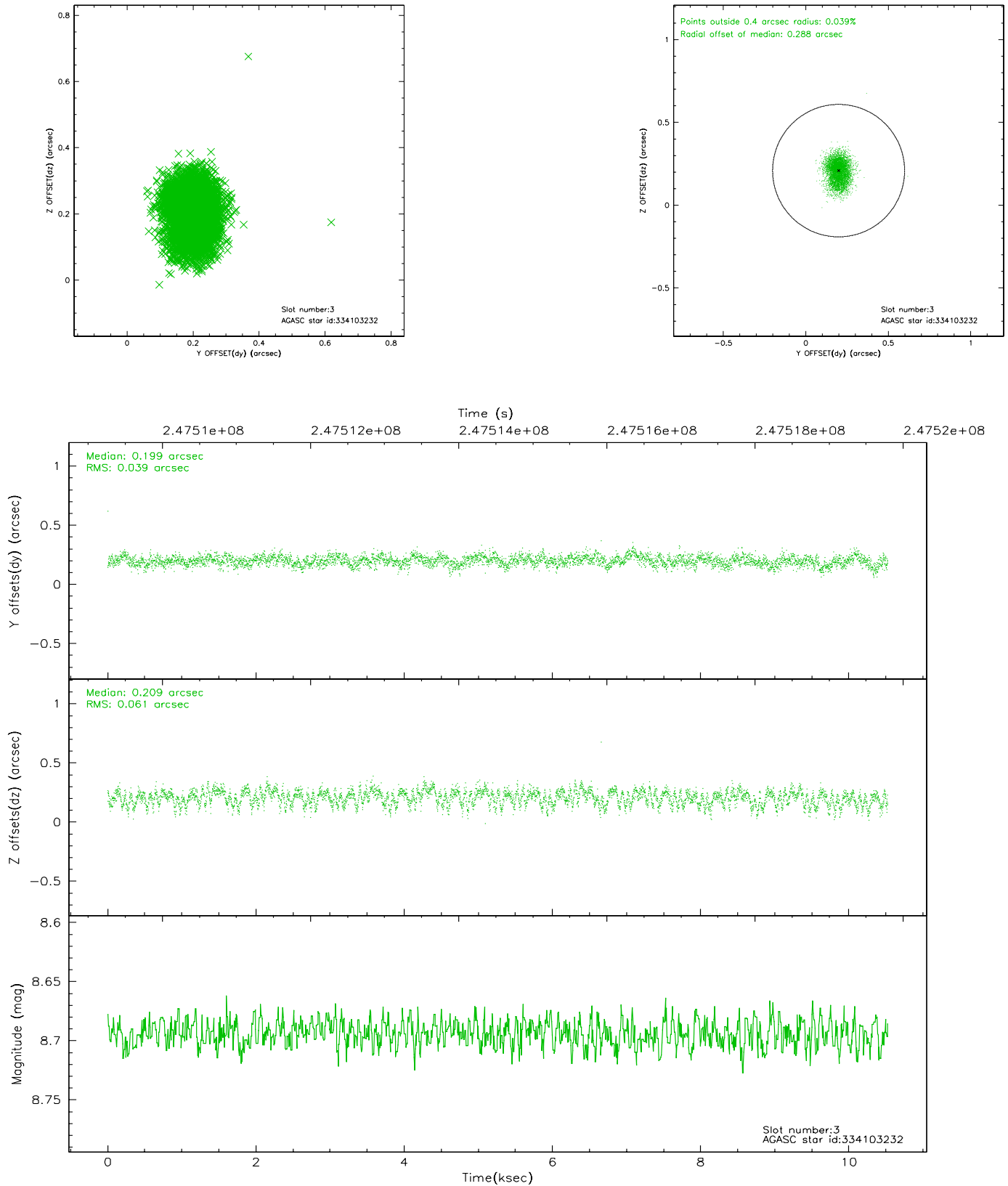


Slot Statistics

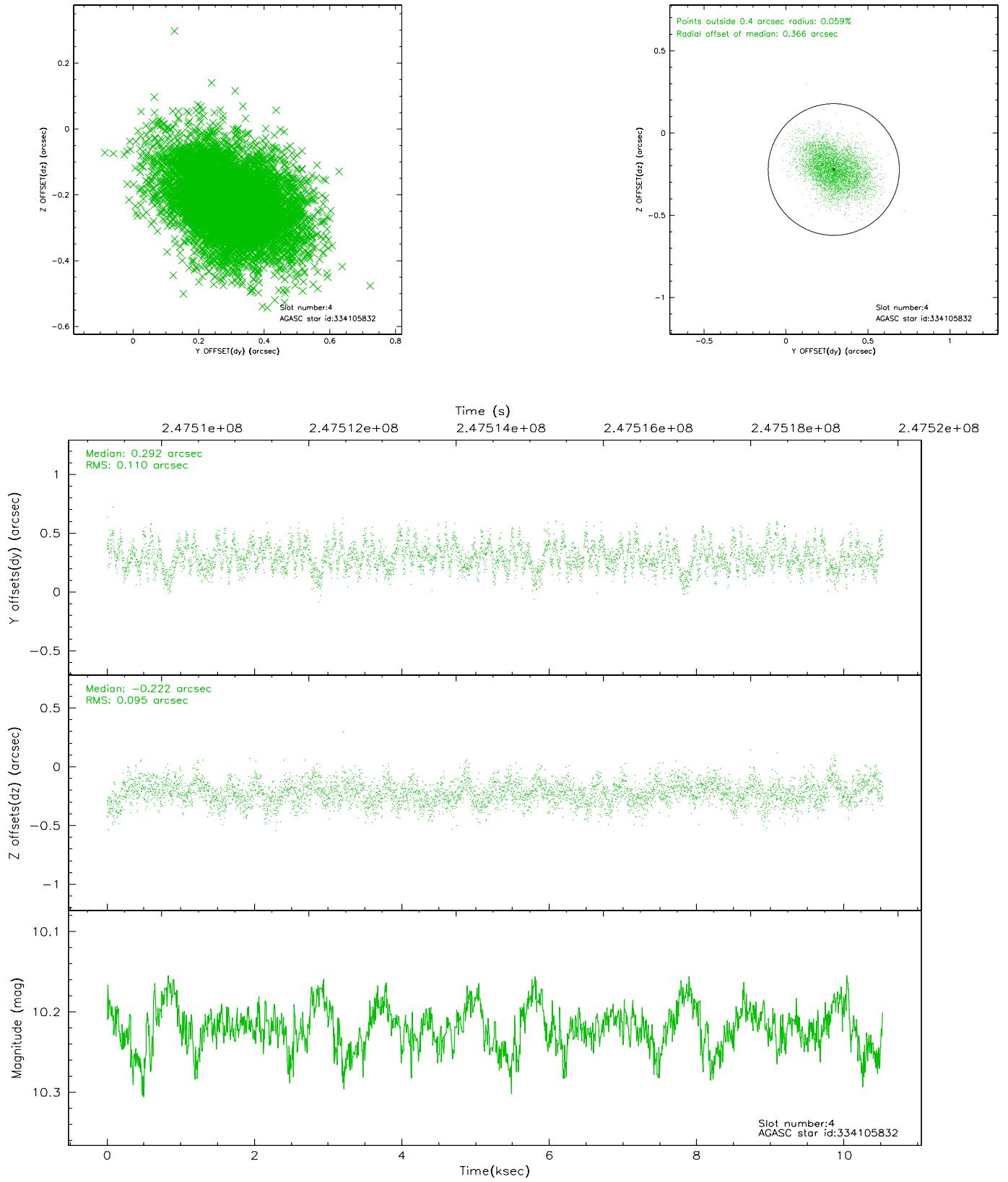
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|-------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.24 | 2567 | -0.025 | -0.031 | 0.036 | 0.047 | 0.000000 | 0.000000 | 932.62 | -835.79 |
| 1 | FID | ACIS-I-4 | 7.18 | 2565 | 0.077 | 0.059 | 0.030 | 0.039 | 0.000000 | 0.000000 | 2153.07 | 1063.81 |
| 2 | FID | ACIS-I-5 | 7.22 | 2567 | -0.151 | 0.042 | 0.018 | 0.025 | 0.000000 | 0.000000 | -1814.83 | 1062.28 |
| 3 | GUIDE | 334103232 | 8.69 | 5132 | 0.199 | 0.209 | 0.076 | 0.125 | 215.850271 | 33.571936 | -1946.77 | -1209.27 |
| 4 | GUIDE | 334105832 | 10.22 | 5127 | 0.292 | -0.222 | 0.153 | 0.254 | 215.847735 | 34.556918 | -1931.59 | 2336.14 |
| 5 | GUIDE | 335021128 | 9.37 | 5133 | -0.076 | -0.211 | 0.104 | 0.164 | 216.159551 | 34.422539 | -1009.10 | 1848.39 |
| 6 | GUIDE | 335028240 | 9.16 | 5135 | -0.037 | 0.198 | 0.081 | 0.134 | 216.746851 | 33.385009 | 743.28 | -1887.31 |
| 7 | GUIDE | 335028696 | 9.19 | 5133 | -0.382 | 0.033 | 0.094 | 0.158 | 217.260519 | 33.844112 | 2275.77 | -228.34 |

2.4 Star Slots

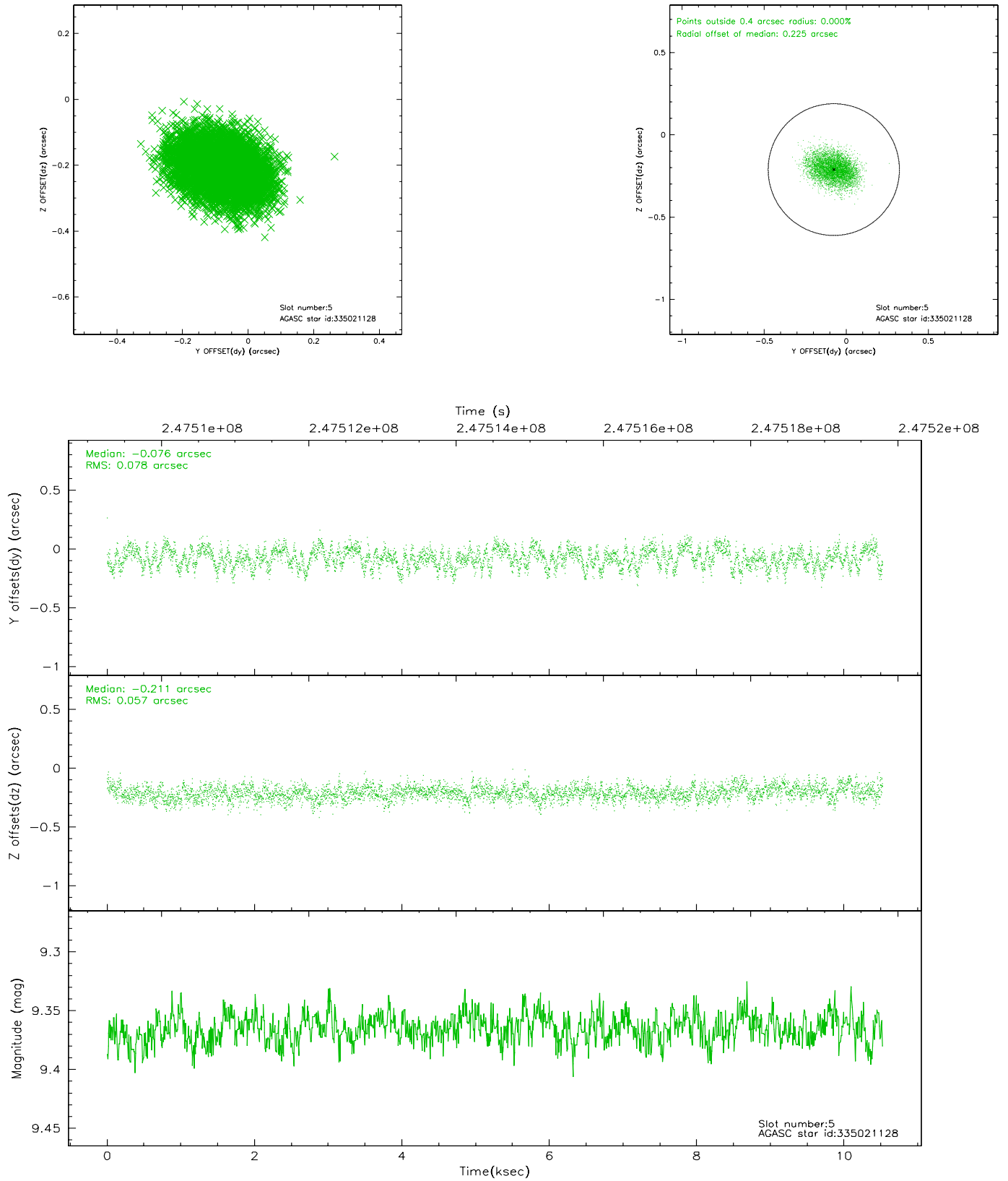
2.4.1 Slot 3



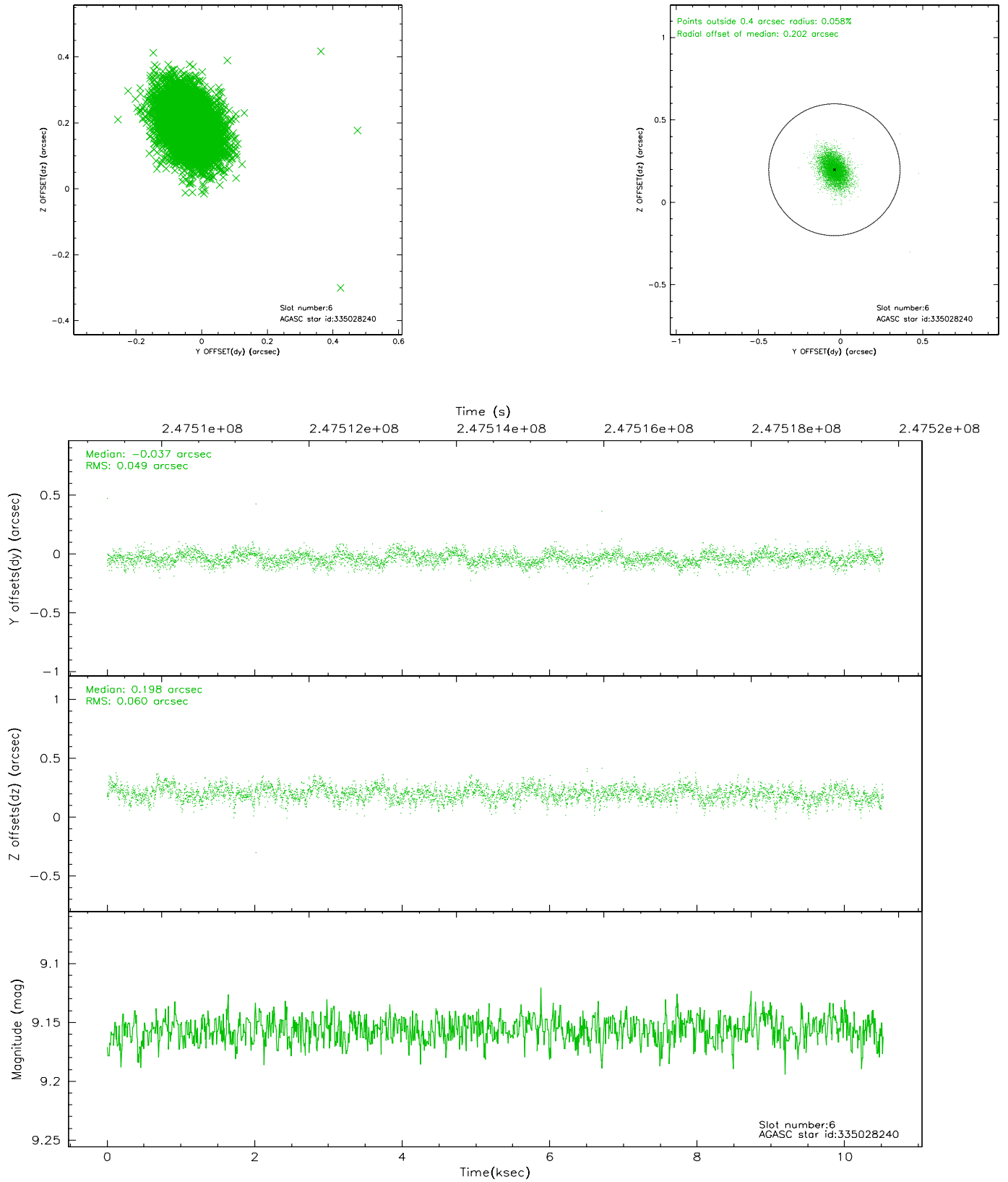
2.4.2 Slot 4



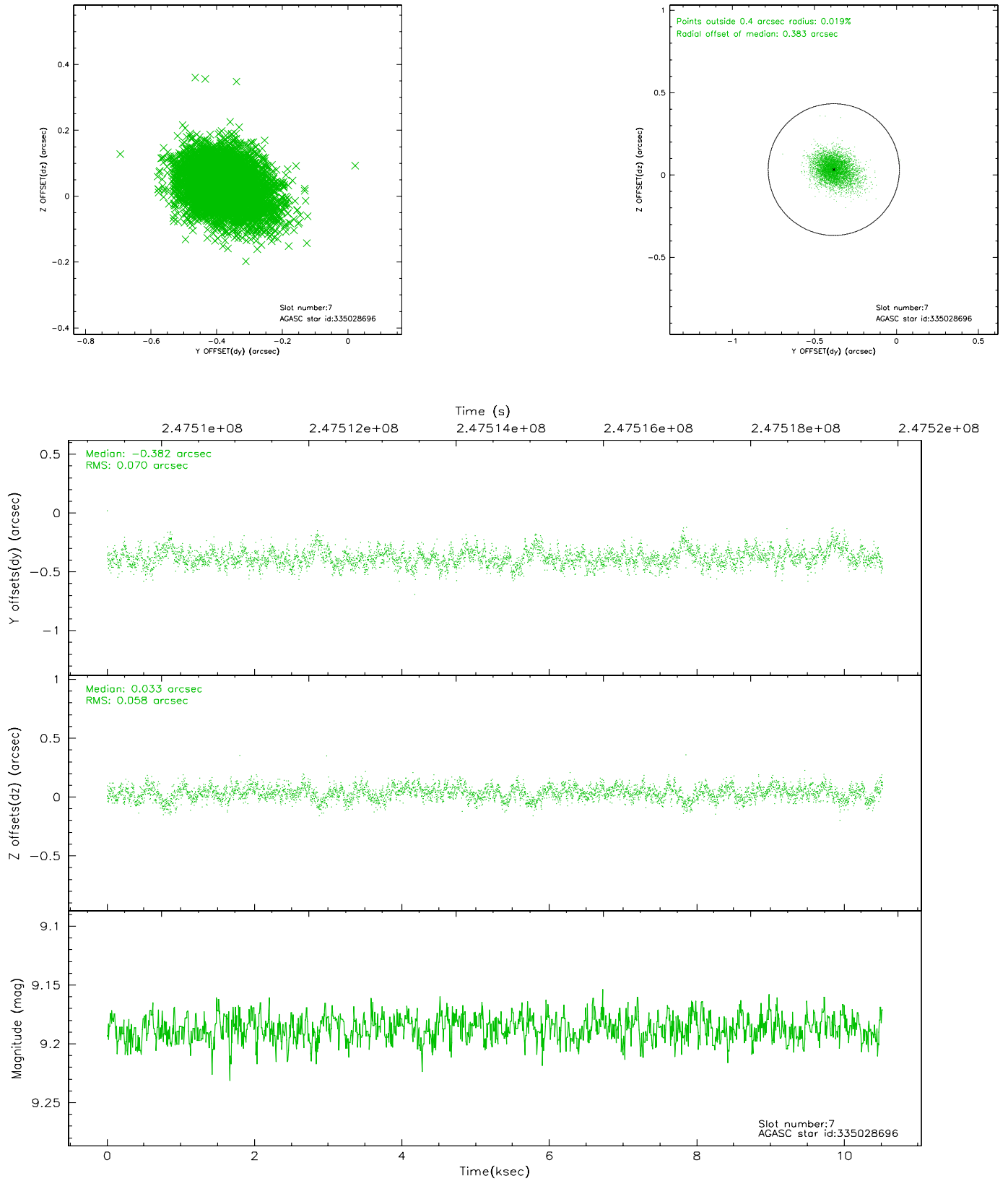
2.4.3 Slot 5



2.4.4 Slot 6

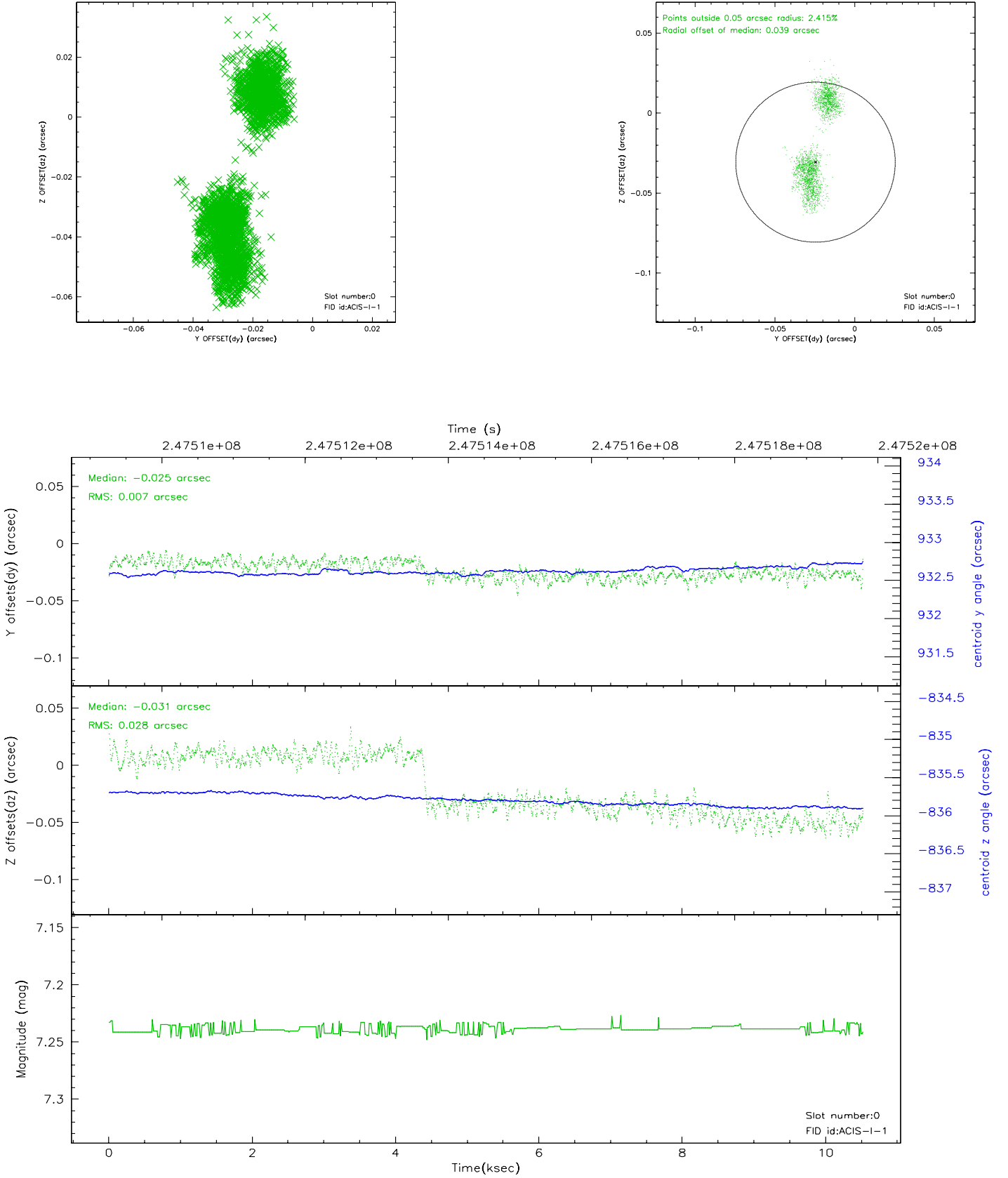


2.4.5 Slot 7

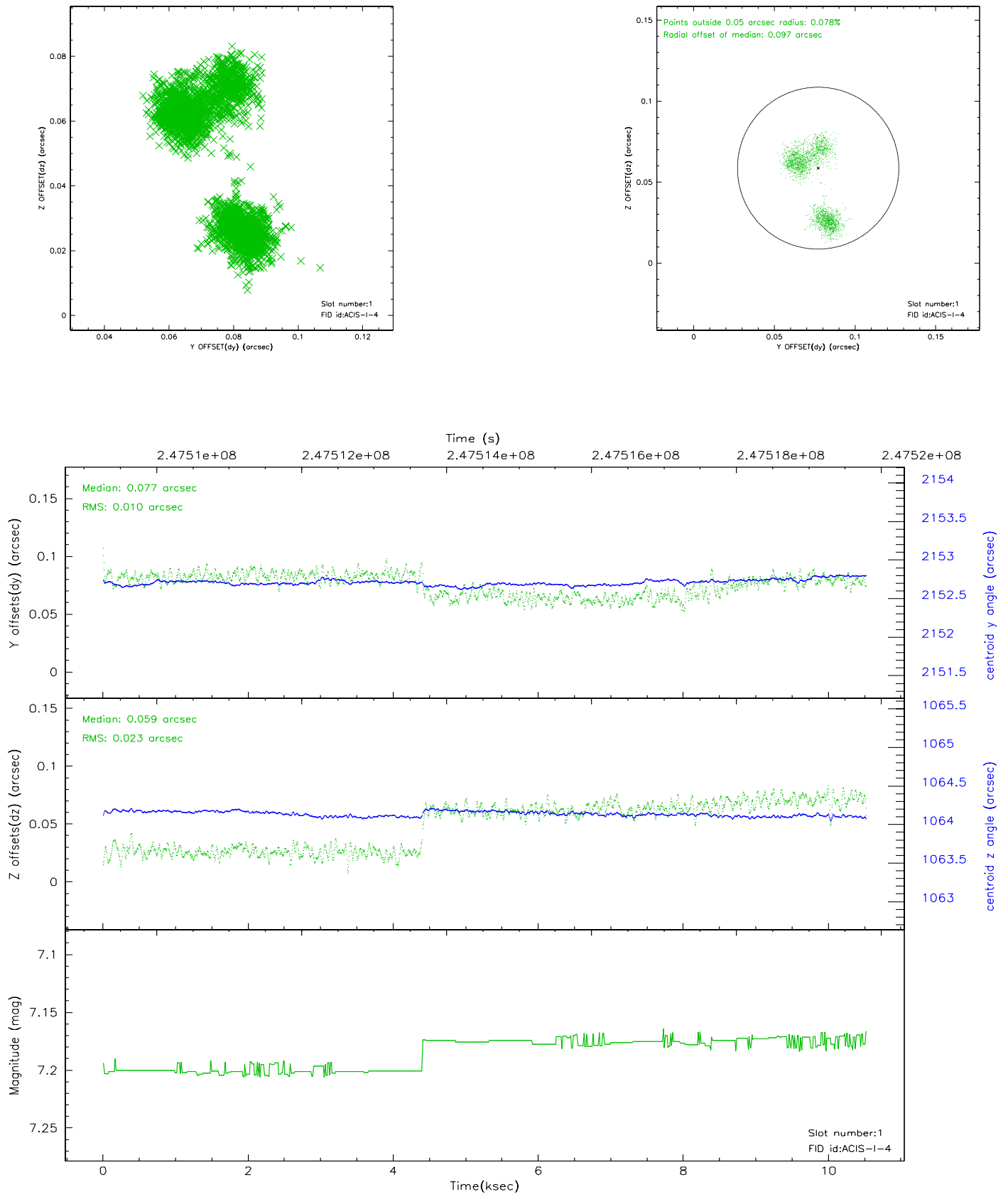


2.5 FID Slots

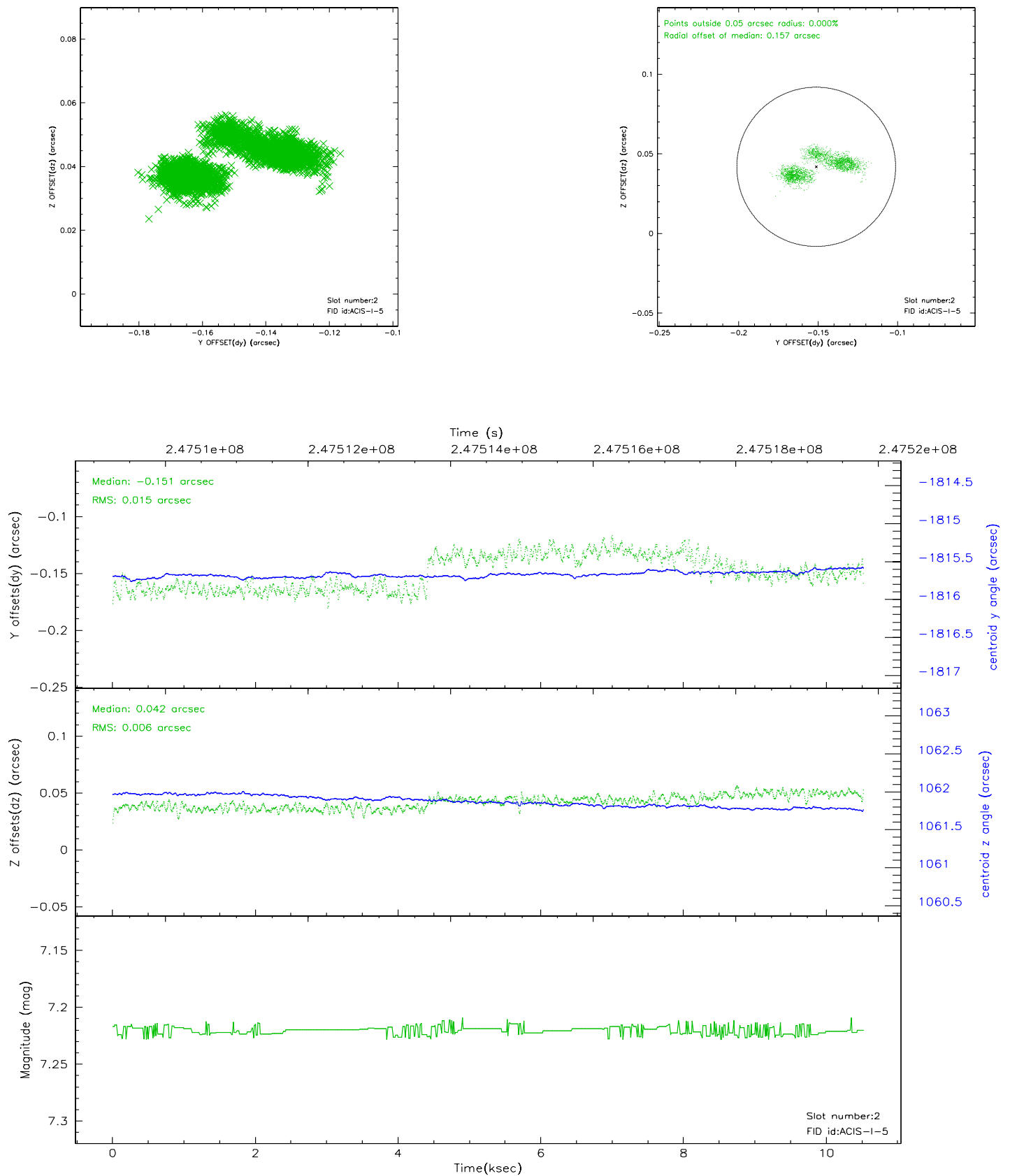
2.5.1 Slot 0



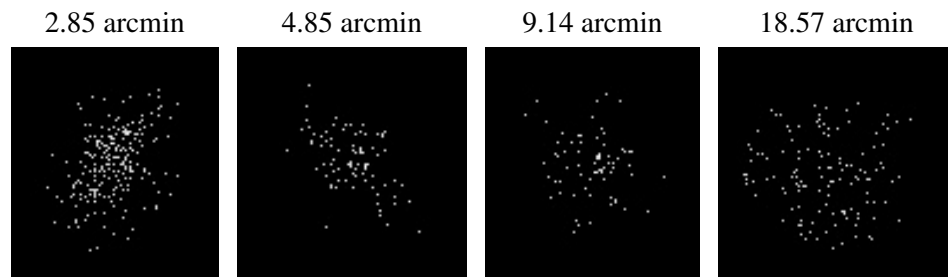
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2006.04.04 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 10.05019 |

A.2 Comments