

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 642 - L2 Version 001
Chandra X-Ray Center

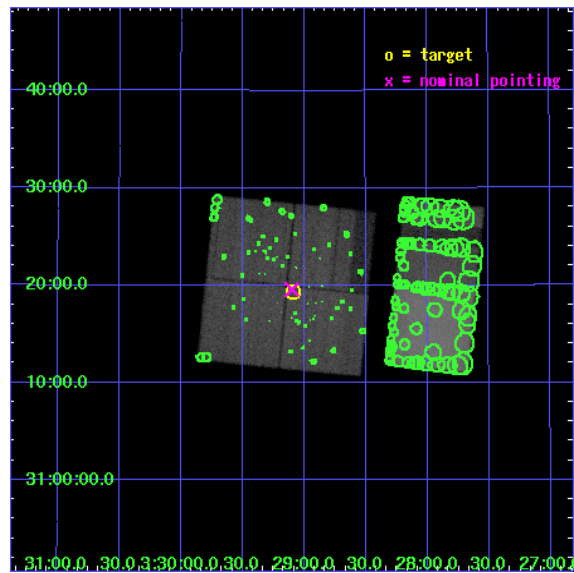
L2 Processing Date : Jun 8 2007

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1 Front

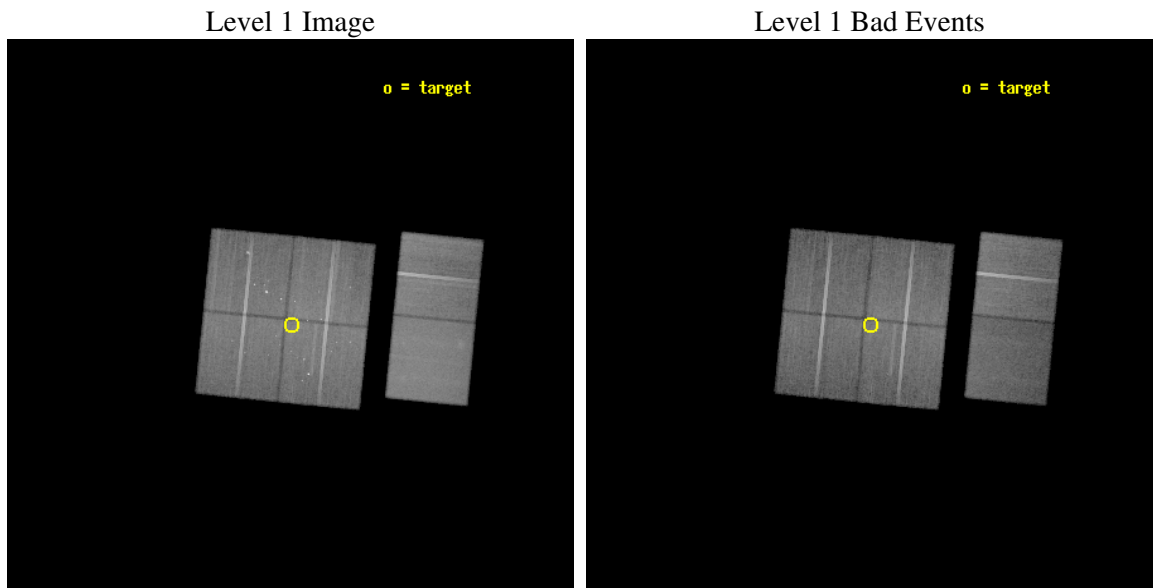
| | |
|----------|--|
| seq_num | 200067 |
| obs_id | 642 |
| title | ACIS STUDY OF THE PERSEUS STAR FORMING CLOUD |
| observer | Prof. Eric Feigelson |
| object | NGC 1333 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 52.273333 |
| dec_targ | 31.321944 |
| ra_nom | 52.27505465888 |
| dec_nom | 31.326656174716 |
| roll_nom | 95.716837307781 |
| revision | 3 |
| ontime | 43894.359110564 |
| livetime | 43338.542305496 |
| ontime0 | 43894.359090656 |
| ontime1 | 43894.359080642 |
| ontime2 | 43894.359080642 |
| ontime3 | 43894.359110564 |
| ontime6 | 43894.359080642 |
| ontime7 | 43891.118100494 |
| l2events | 607522 |



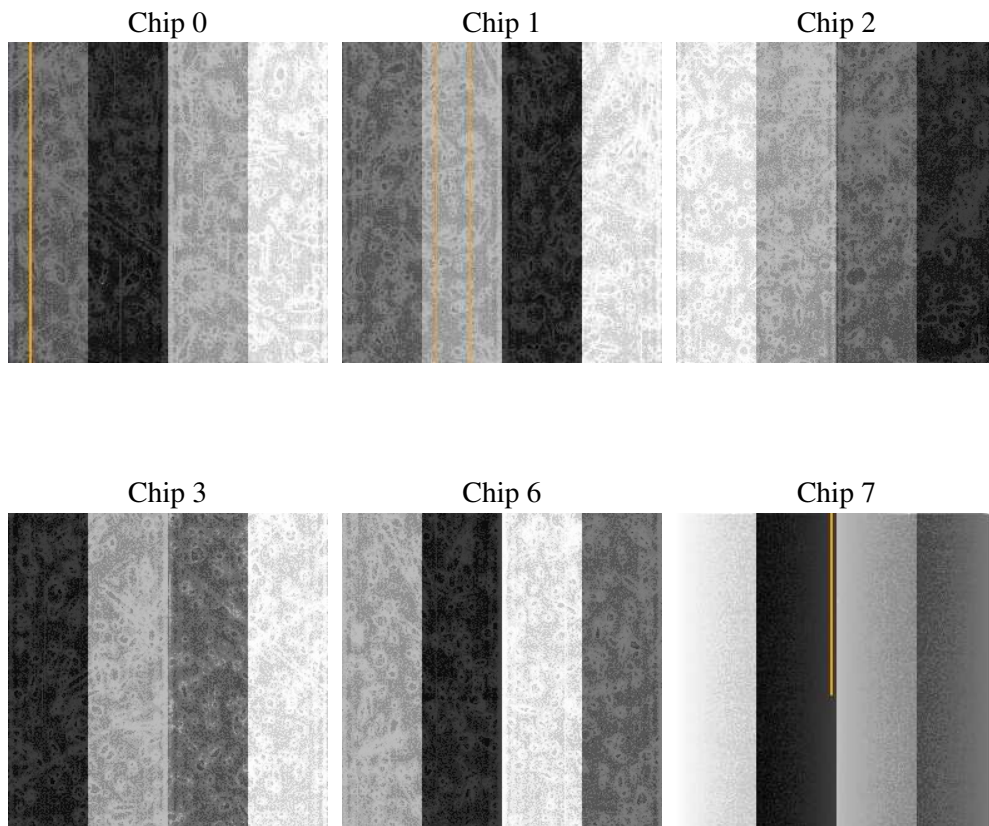
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.10 |
| caldsver | 3.4.0 |
| date | 2007-06-08T16:34:26 |
| revision | 3 |

| | |
|----------------|-----------------|
| sched_exp_time | 50000.000000 |
| ontime | 43894.359110564 |
| ontime0 | 43894.359090656 |
| ontime1 | 43894.359080642 |
| ontime2 | 43894.359080642 |
| ontime3 | 43894.359110564 |
| ontime6 | 43894.359080642 |
| ontime7 | 43891.118100494 |
| l1events | 2268214 |

2.1.4 Events

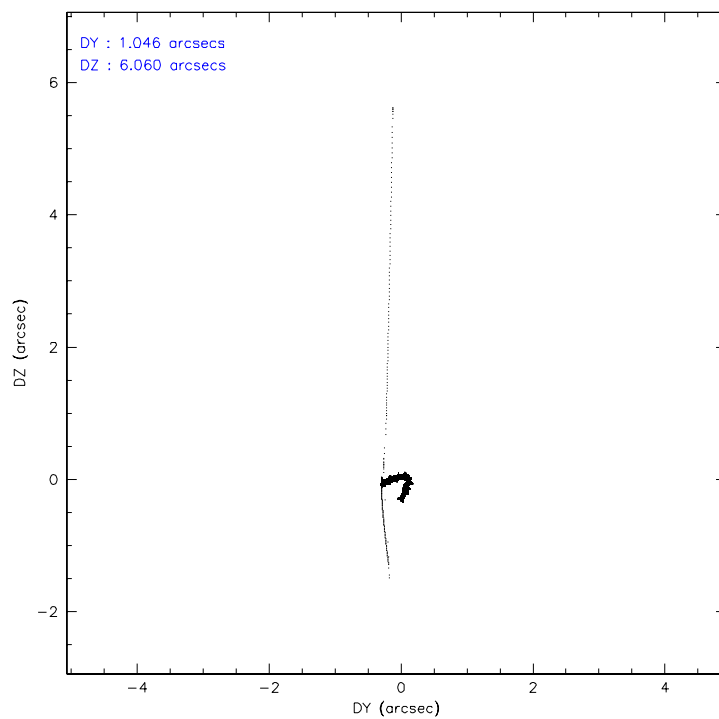
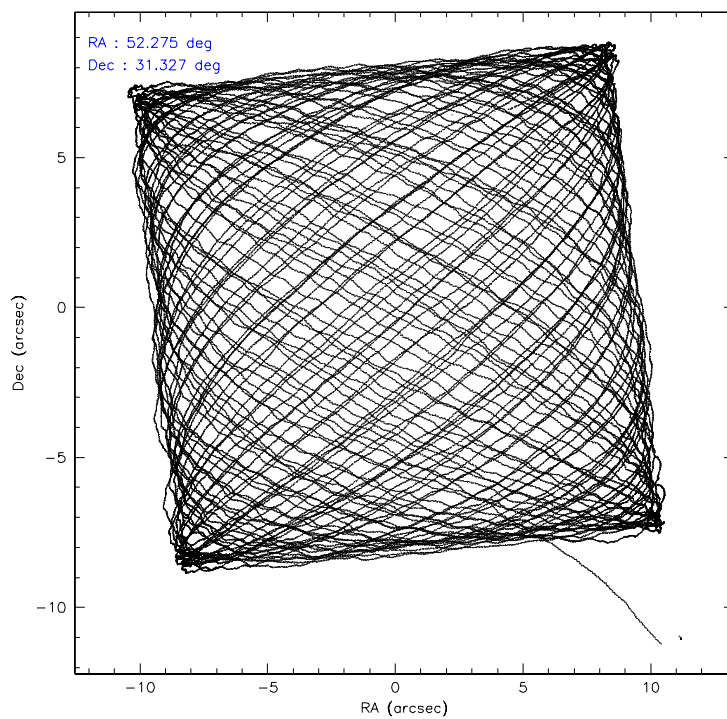
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 343072 | 345911 | 379634 | 382040 | 386835 | 430722 |
| rejected events | 249540 | 259599 | 298188 | 293023 | 300267 | 197968 |
| rejected % | 72% | 75% | 78% | 76% | 77% | 45% |

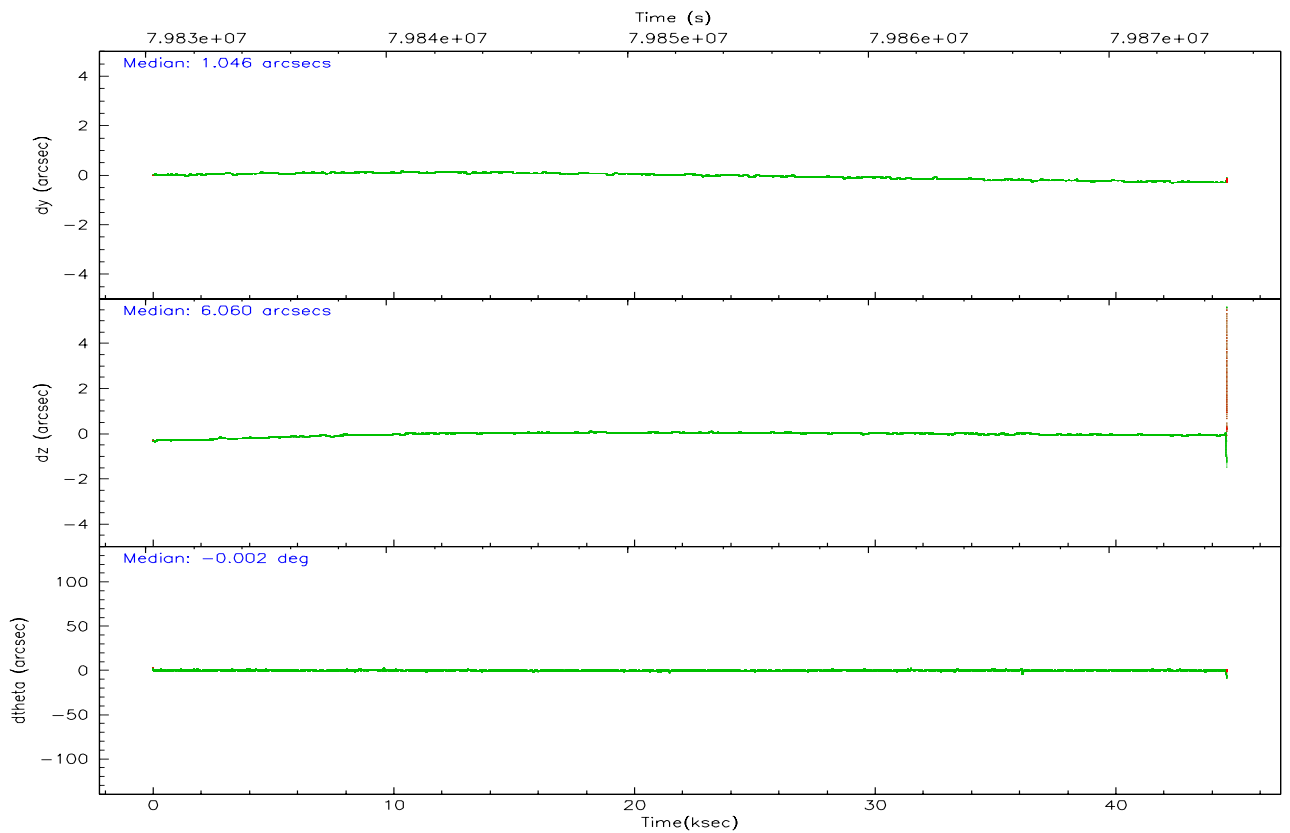
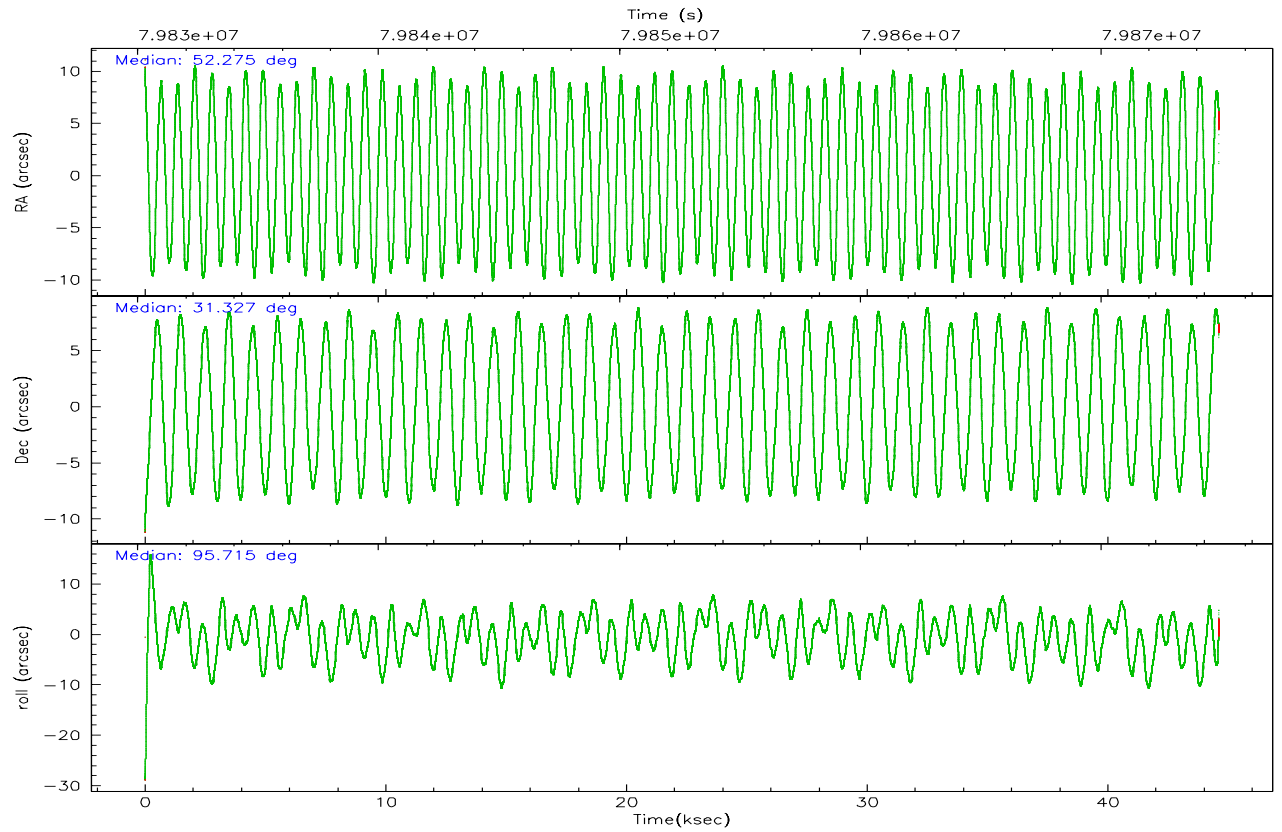
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|--------|--------|--------|--------|--------|--------|
| grade 0 events | 45270 | 36713 | 37663 | 40068 | 40831 | 24969 |
| | 13% | 10% | 9% | 10% | 10% | 5% |
| grade 1 events | 299 | 223 | 258 | 241 | 279 | 445 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 24636 | 25943 | 20642 | 24961 | 23461 | 45521 |
| | 7% | 7% | 5% | 6% | 6% | 10% |
| grade 3 events | 4012 | 4435 | 3428 | 3781 | 3725 | 20194 |
| | 1% | 1% | 0% | 0% | 0% | 4% |
| grade 4 events | 4403 | 4245 | 4931 | 4342 | 4094 | 20625 |
| | 1% | 1% | 1% | 1% | 1% | 4% |
| grade 5 events | 9225 | 9726 | 8548 | 9544 | 10765 | 33039 |
| | 2% | 2% | 2% | 2% | 2% | 7% |
| grade 6 events | 15472 | 15183 | 14994 | 16109 | 14702 | 122263 |
| | 4% | 4% | 3% | 4% | 3% | 28% |
| grade 7 events | 239755 | 249443 | 289170 | 282994 | 288978 | 163666 |
| | 69% | 72% | 76% | 74% | 74% | 37% |

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 | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| Pointing RA | 52.293752 | 52.27505465888028 | Subarray requested | NONE | NONE |
| Pointing Dec | 31.304203 | 31.32665617471625 | Alternating exposures requested | N | N |
| Pointing Roll | 95.498441 | 95.71683730778061 | Primary exposure time | 3.200000 | 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 | 79830949.184000 | 79829758.94031399 | | | |
| Observation start date | 2000-07-12T23:14:45 | 2000-07-12T22:55:58 | | | |
| Observation end time | 79880949.184000 | 79874933.766982 | | | |
| Observation end date | 2000-07-13T13:08:05 | 2000-07-13T11:28:53 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



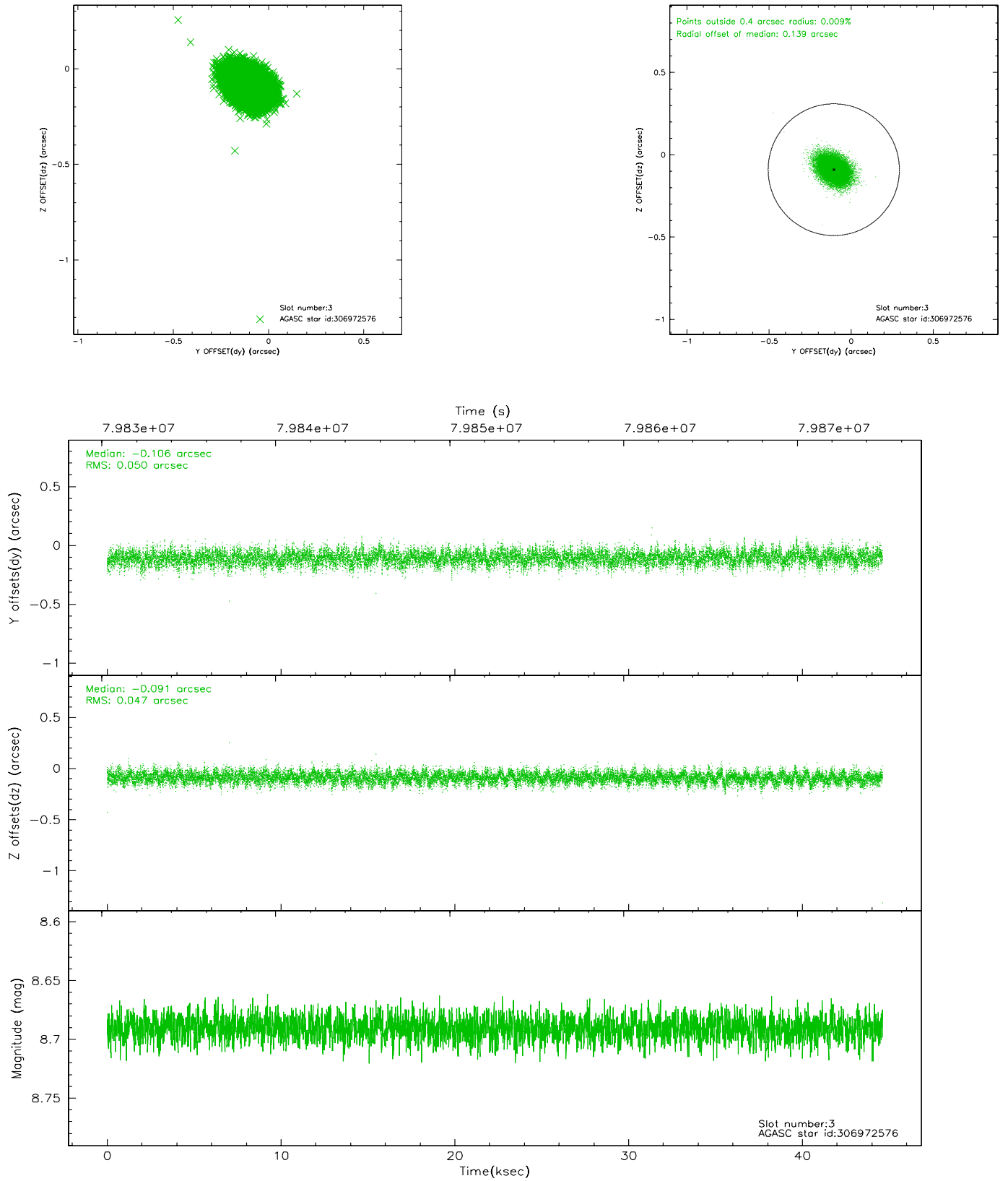


Slot Statistics

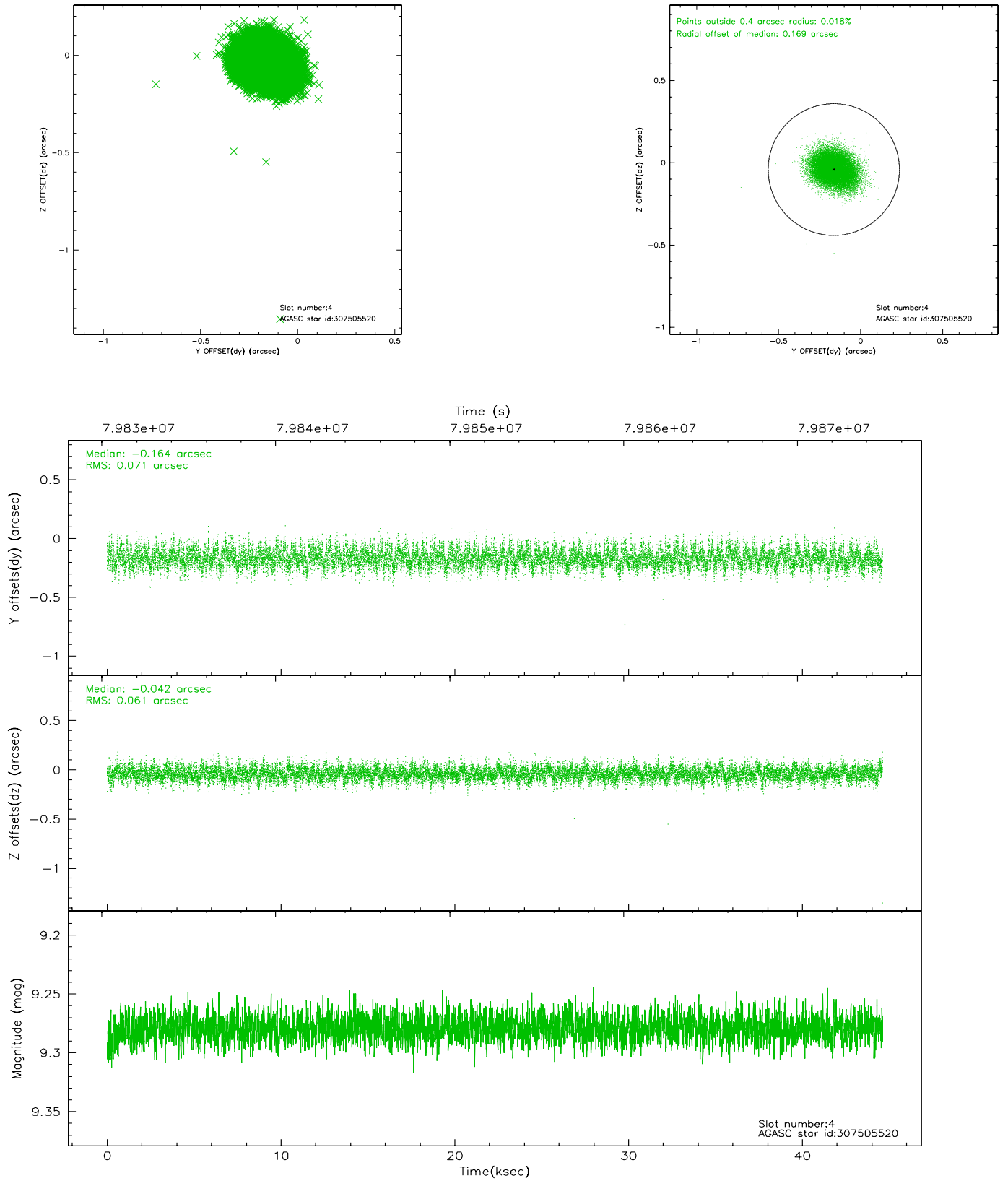
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | ACIS-I-3 | 7.44 | 10874 | 0.007 | 0.150 | 0.009 | 0.015 | 0.000000 | 0.000000 | 56.26 | -962.48 |
| 1 | FID | ACIS-I-4 | 7.18 | 10872 | -0.112 | -0.058 | 0.008 | 0.013 | 0.000000 | 0.000000 | 2158.69 | 1070.34 |
| 2 | FID | ACIS-I-5 | 7.23 | 10873 | 0.006 | -0.023 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1809.15 | 1068.24 |
| 3 | GUIDE | 306972576 | 8.69 | 21751 | -0.106 | -0.091 | 0.072 | 0.119 | 51.922068 | 31.396670 | 442.69 | 1105.39 |
| 4 | GUIDE | 307505520 | 9.28 | 21748 | -0.164 | -0.042 | 0.099 | 0.160 | 52.061709 | 31.914080 | 2254.13 | 496.14 |
| 5 | GUIDE | 306972472 | 9.17 | 21746 | 0.274 | -0.045 | 0.093 | 0.156 | 51.872030 | 30.721015 | -1961.86 | 1500.70 |
| 6 | GUIDE | 306974976 | 9.64 | 21638 | -0.096 | 0.257 | 0.103 | 0.170 | 52.769116 | 31.792982 | 1615.26 | -1615.78 |
| 7 | GUIDE | 306972496 | 9.78 | 21744 | 0.093 | -0.076 | 0.108 | 0.181 | 52.238376 | 31.238636 | -218.29 | 192.77 |

2.4 Star Slots

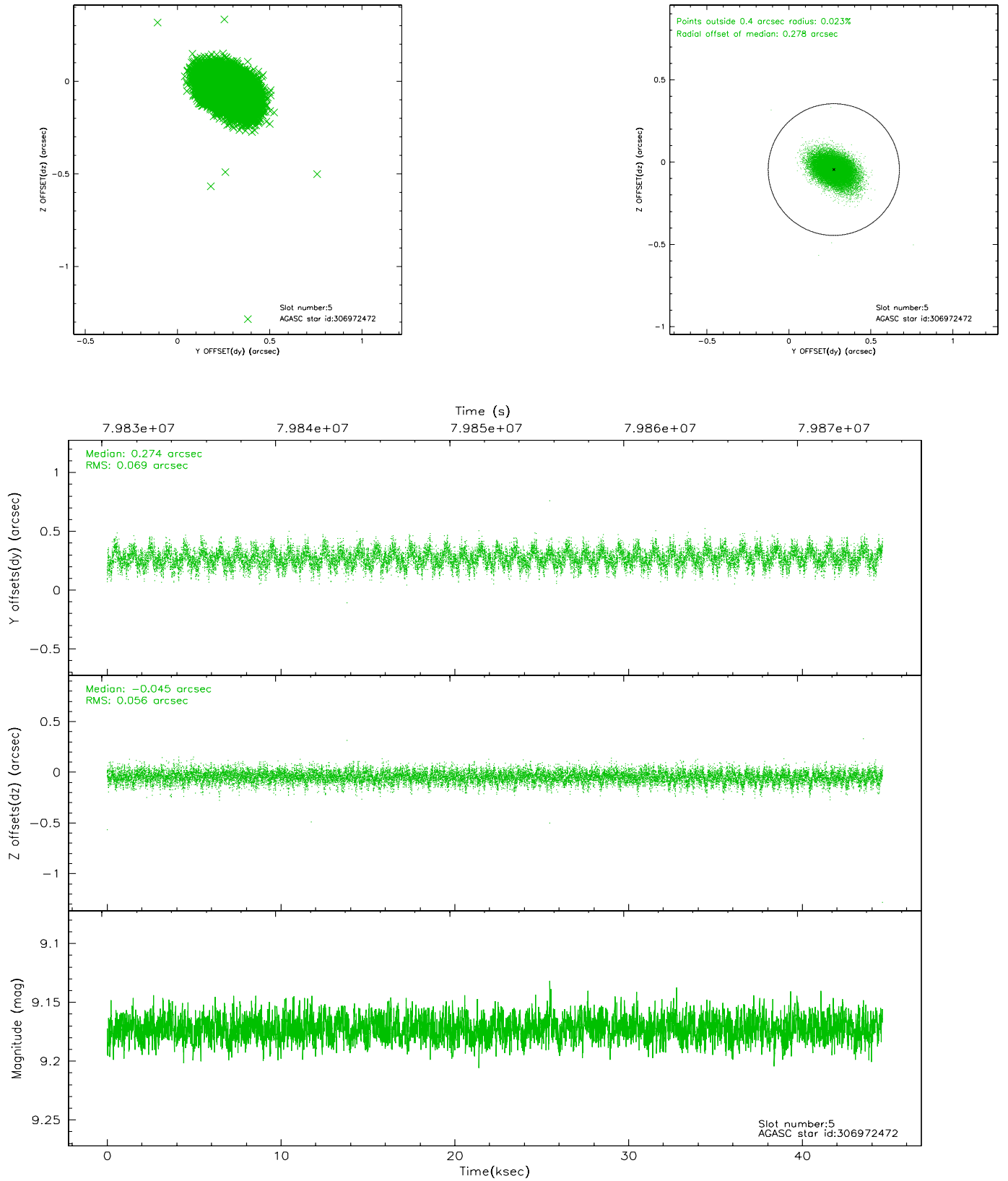
2.4.1 Slot 3



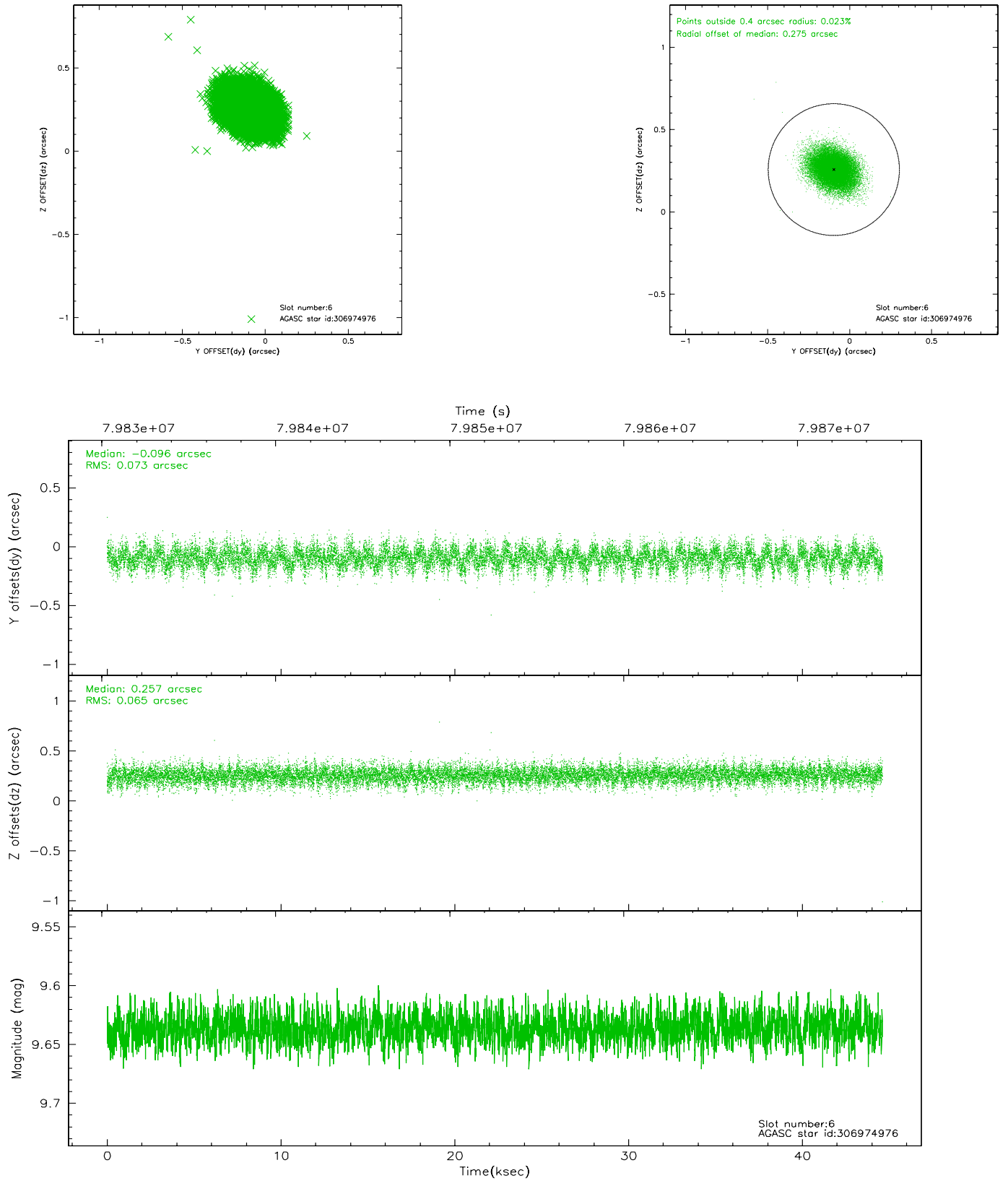
2.4.2 Slot 4



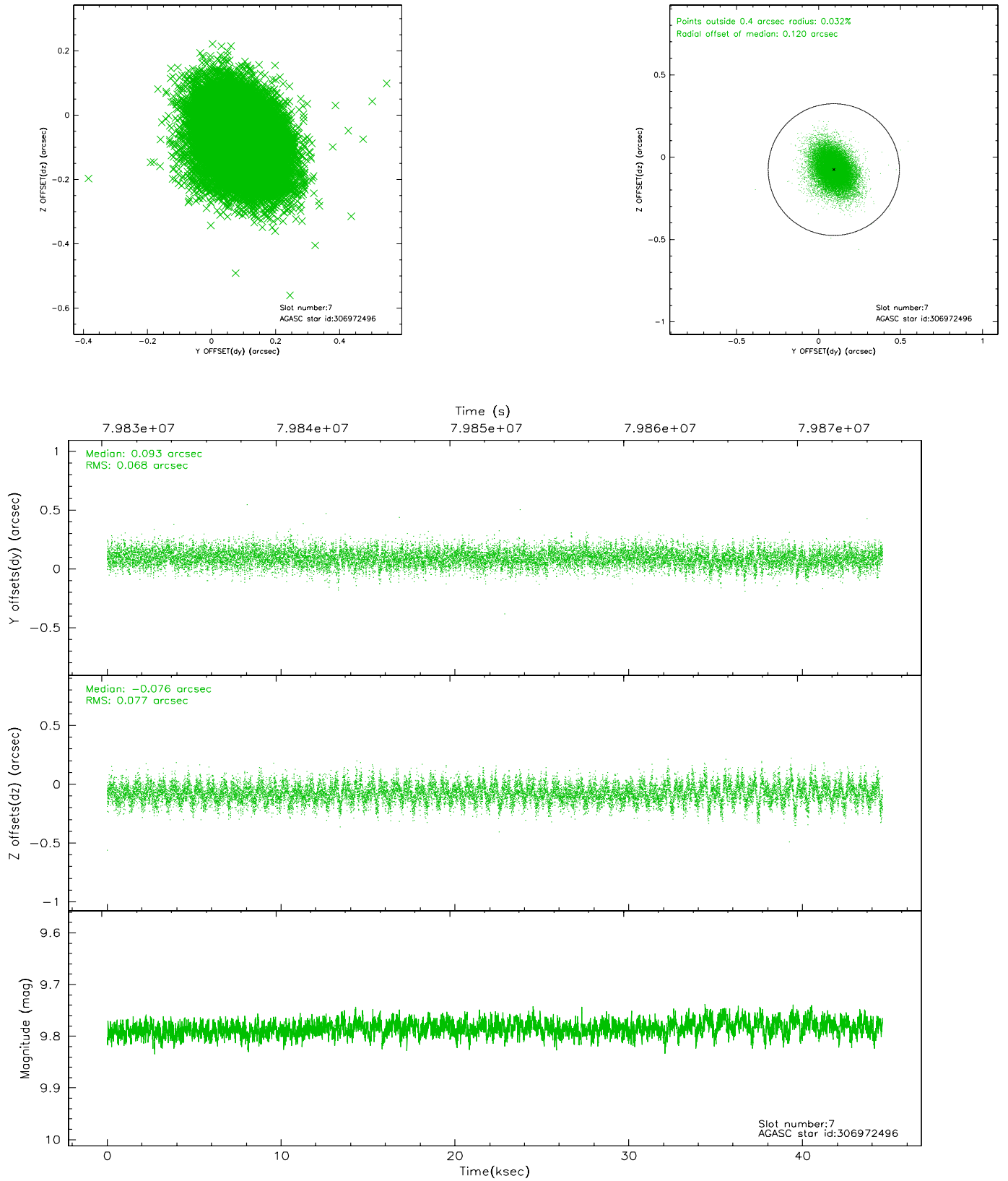
2.4.3 Slot 5



2.4.4 Slot 6

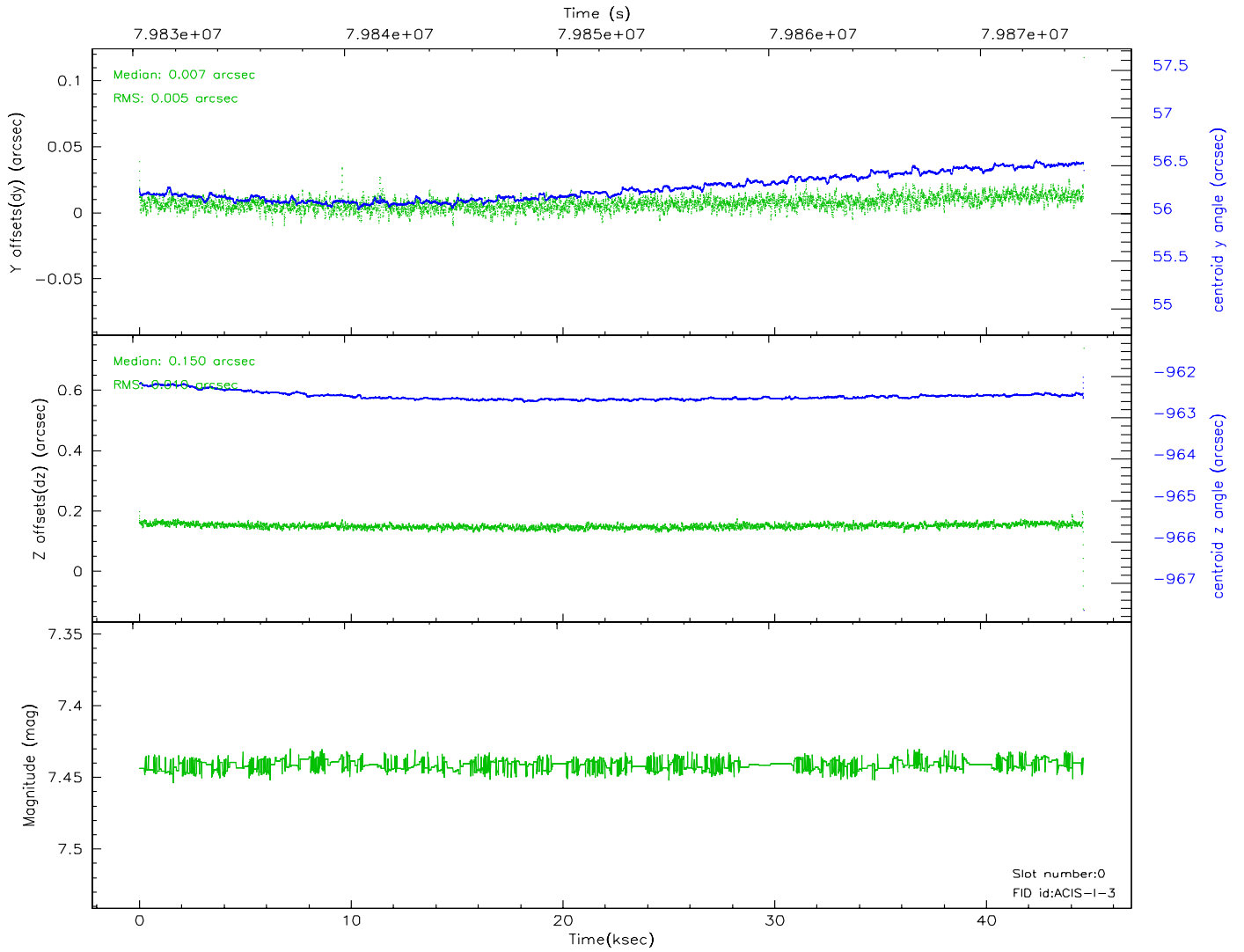
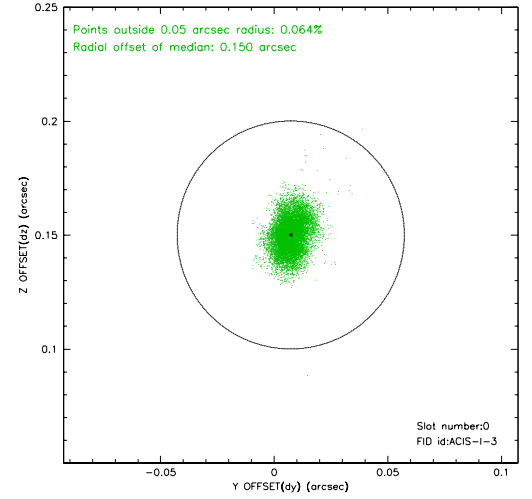
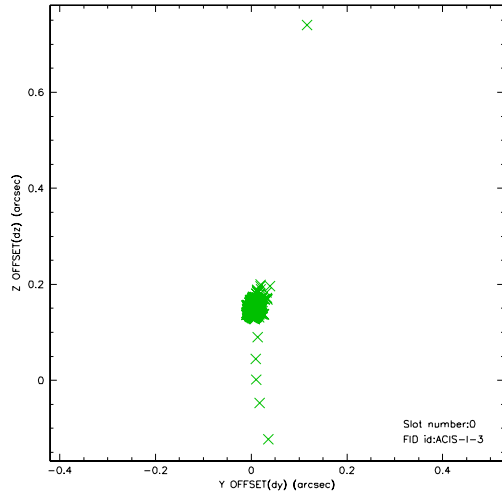


2.4.5 Slot 7

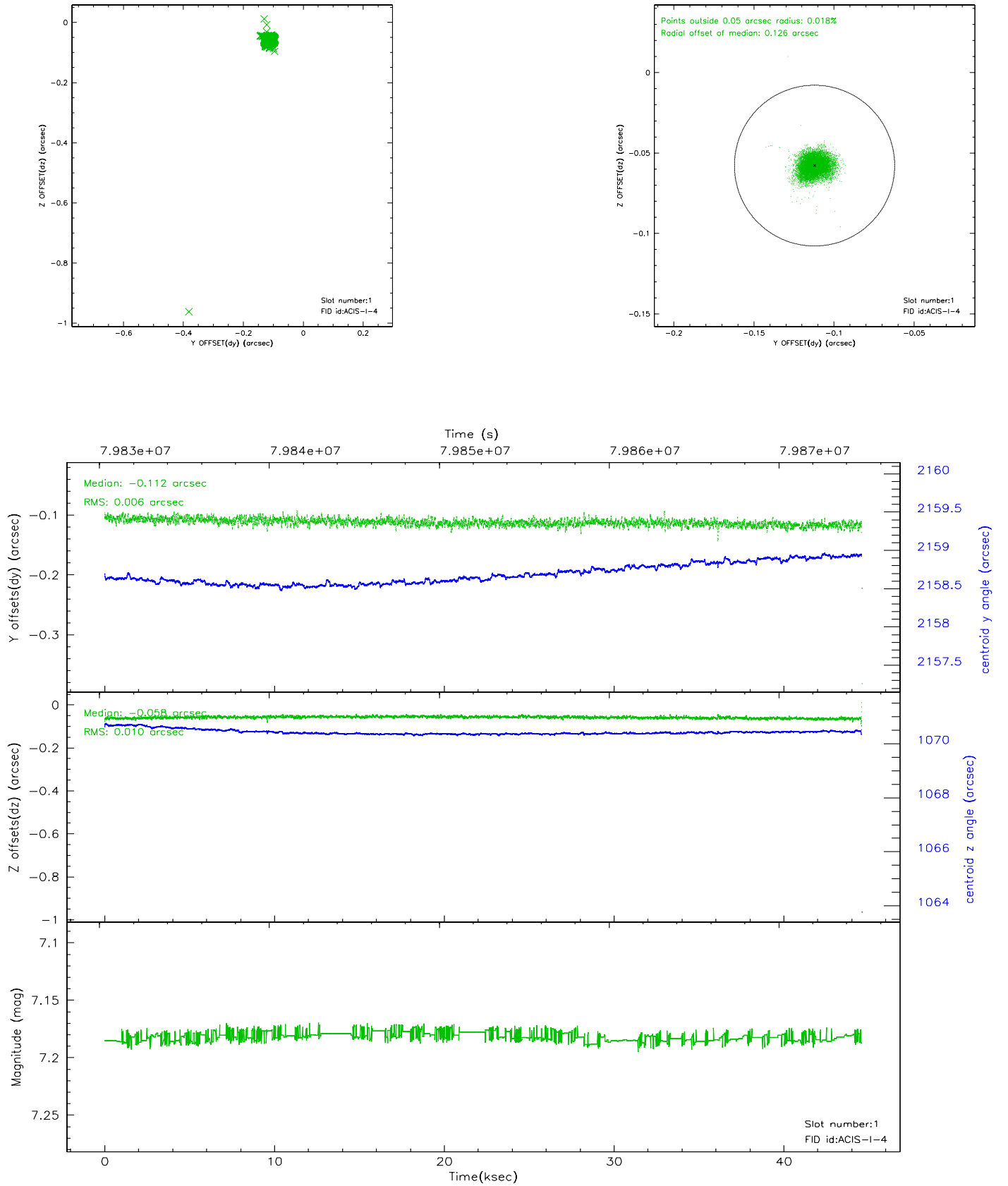


2.5 FID Slots

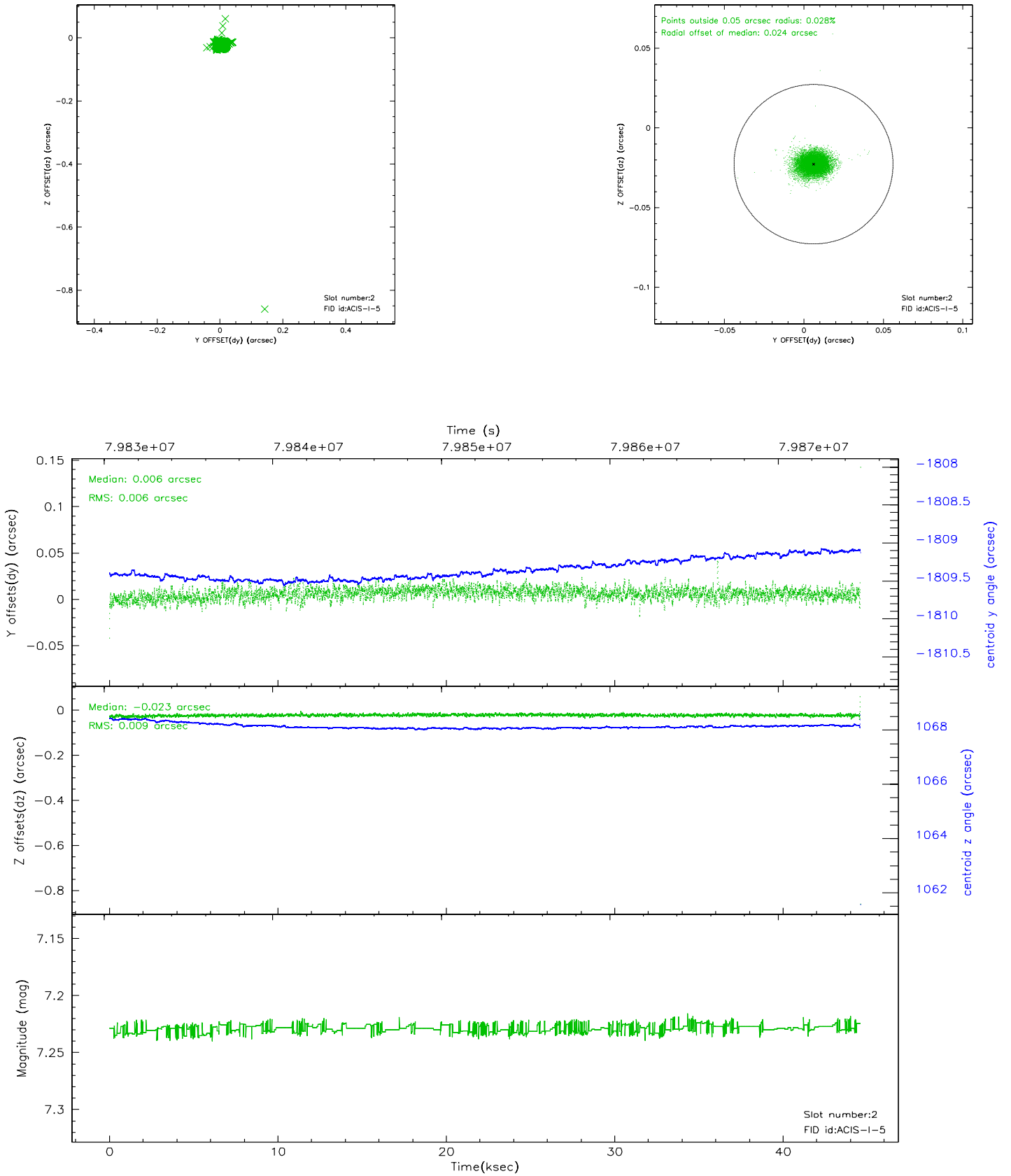
2.5.1 Slot 0



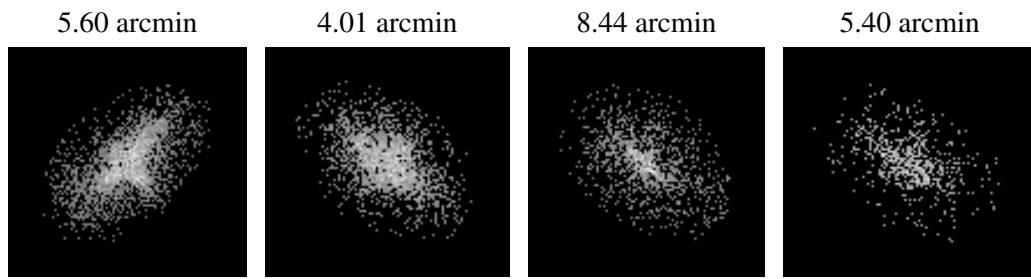
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2007.06.10 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 43.907 |

A.2 Comments

This observation was interrupted by safing of the science instruments due to high solar radiation environment. The observation was interrupted at 195:11:29 GMT.