

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1873 - L2 Version 001
Chandra X-Ray Center

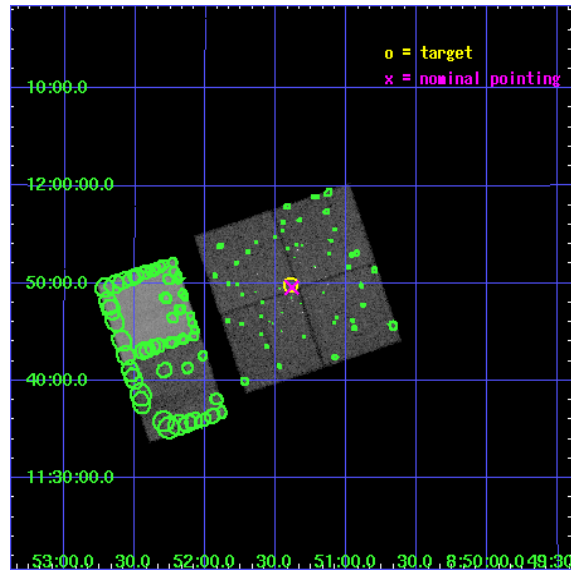
L2 Processing Date : Nov 25 2006

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1 Front

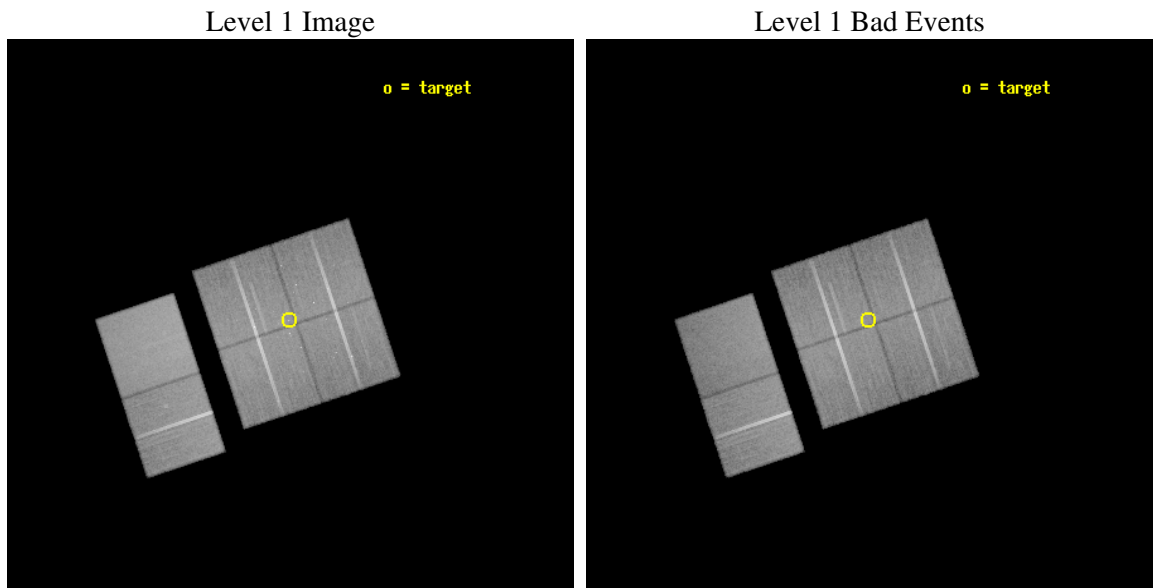
| | |
|----------|------------------------------------|
| seq_num | 200101 |
| obs_id | 1873 |
| title | BINARIES IN OLD OPEN CLUSTERS: M67 |
| observer | Dr. Tomaso Belloni |
| object | M 67 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 132.85 |
| dec_targ | 11.83 |
| ra_nom | 132.84678226563 |
| dec_nom | 11.826449331155 |
| roll_nom | 251.51968182347 |
| revision | 2 |
| ontime | 46851.159083411 |
| livetime | 46257.901496716 |
| ontime0 | 46851.159083411 |
| ontime1 | 46851.159083411 |
| ontime2 | 46847.918123156 |
| ontime3 | 46851.159083411 |
| ontime6 | 46847.918153092 |
| ontime7 | 46844.677172899 |
| l2events | 295404 |



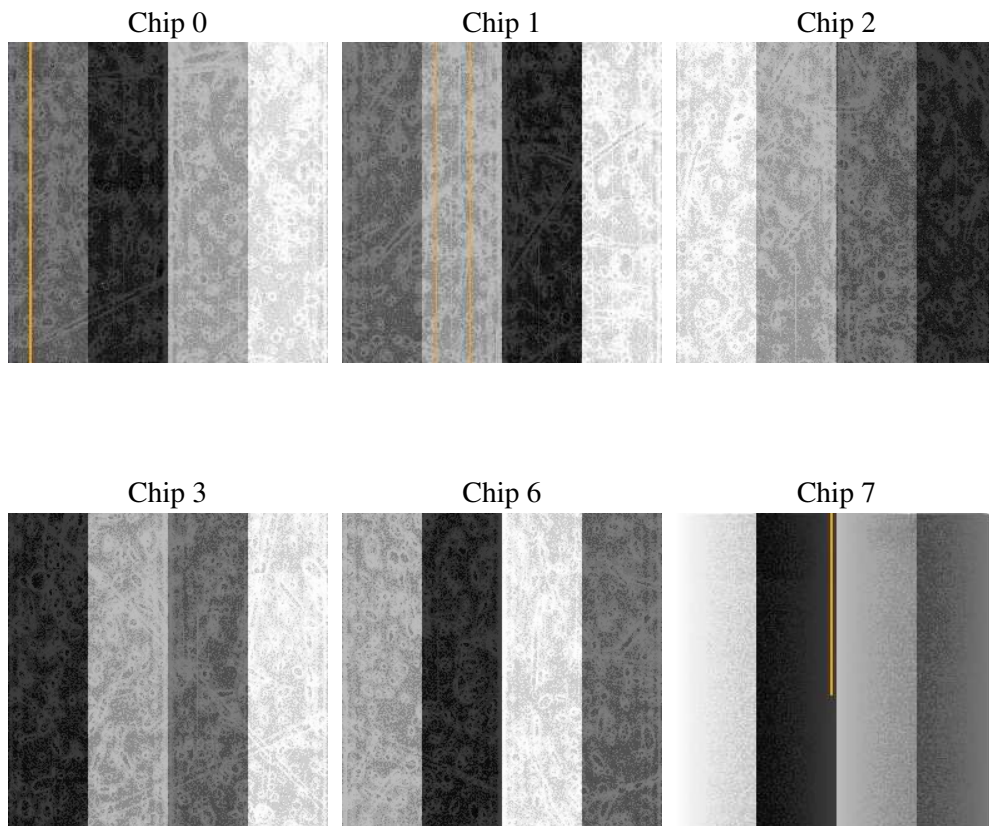
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 3 |
| ascdsver | 7.6.9 |
| caldsver | 3.2.4 |
| date | 2006-11-25T05:09:29 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 47100.000000 |
| ontime | 46855.098134771 |
| ontime0 | 46855.098164693 |
| ontime1 | 46855.098164693 |
| ontime2 | 46851.857204437 |
| ontime3 | 46855.098134771 |
| ontime6 | 46851.857234374 |
| ontime7 | 46848.616224259 |
| l1events | 1846995 |

2.1.4 Events

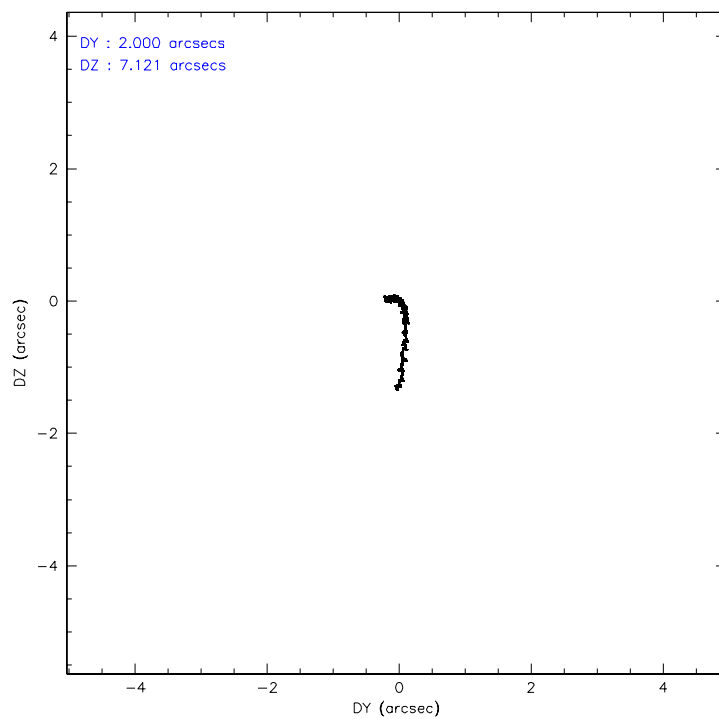
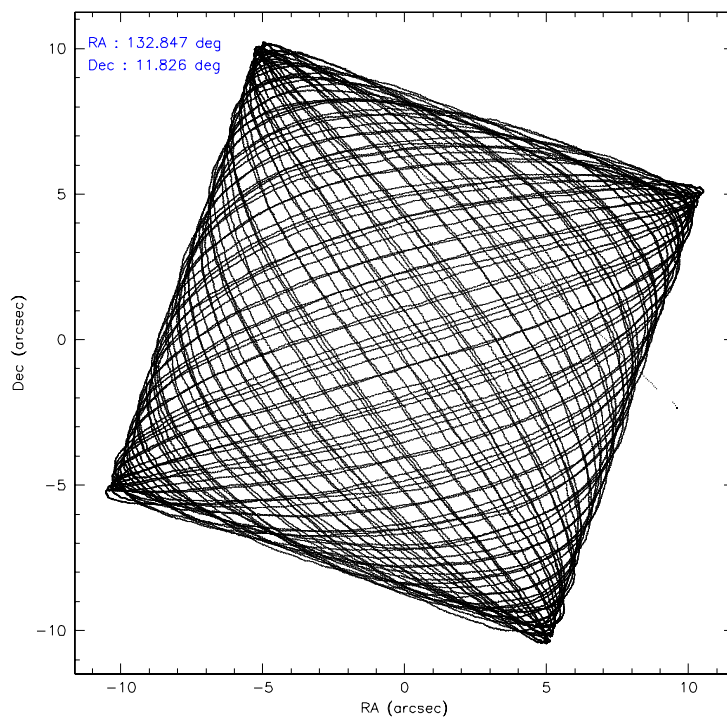
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 273722 | 280238 | 303386 | 296679 | 313554 | 379416 |
| rejected events | 237961 | 241710 | 268561 | 261910 | 278818 | 233617 |
| rejected % | 86% | 86% | 88% | 88% | 88% | 61% |

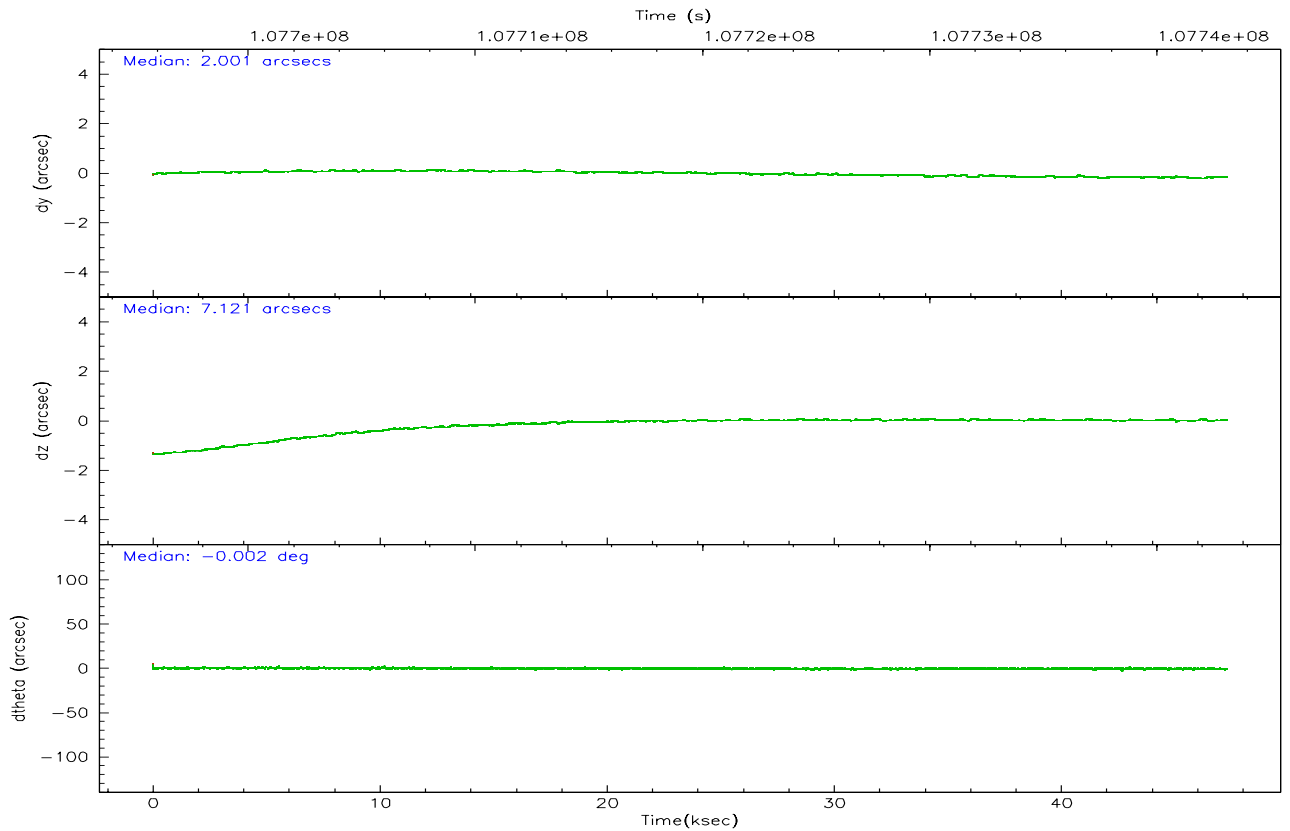
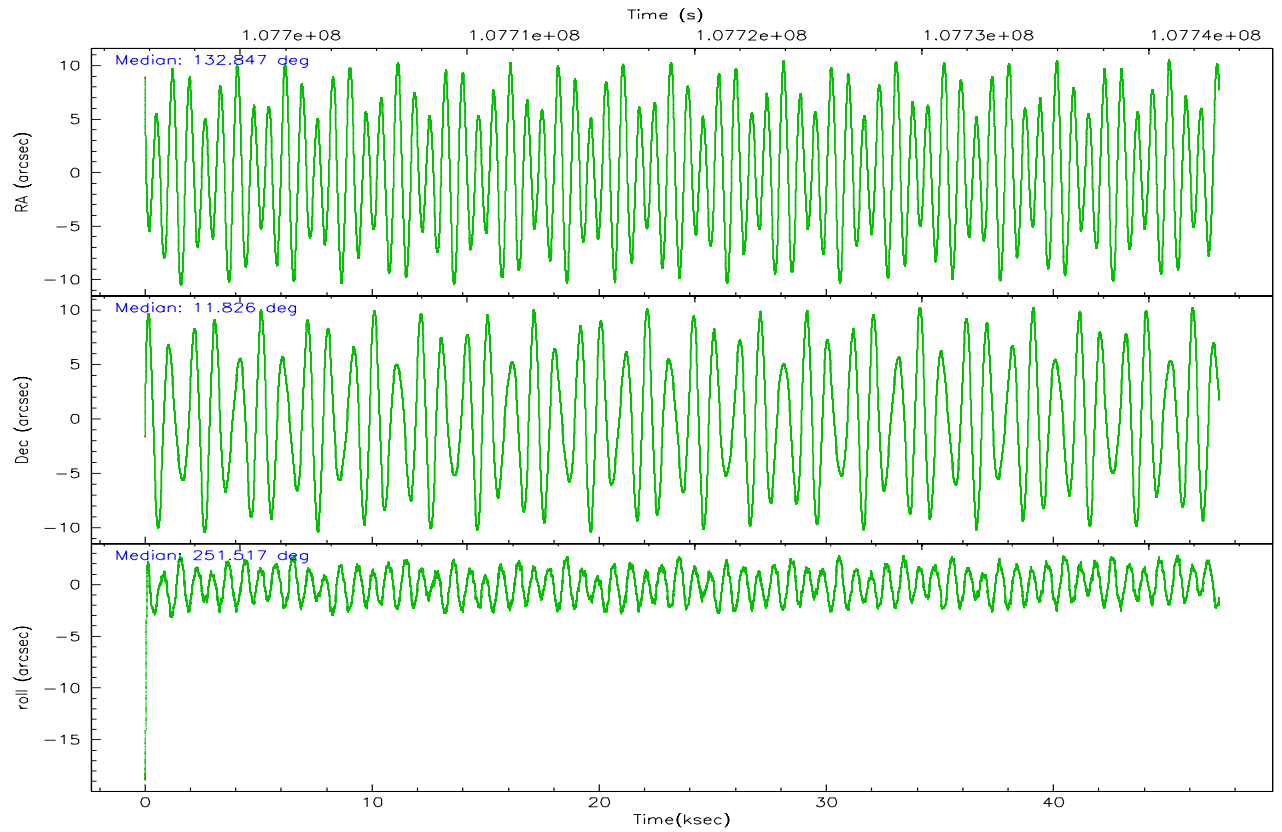
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|--------|--------|--------|--------|--------|--------|
| grade 0 events | 15597 | 16648 | 15469 | 15572 | 14119 | 9253 |
| | 5% | 5% | 5% | 5% | 4% | 2% |
| grade 1 events | 156 | 138 | 127 | 147 | 131 | 211 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 7446 | 7612 | 7259 | 6740 | 7016 | 35583 |
| | 2% | 2% | 2% | 2% | 2% | 9% |
| grade 3 events | 3509 | 3841 | 3109 | 3227 | 3436 | 8039 |
| | 1% | 1% | 1% | 1% | 1% | 2% |
| grade 4 events | 3142 | 3668 | 3266 | 3288 | 3258 | 7711 |
| | 1% | 1% | 1% | 1% | 1% | 2% |
| grade 5 events | 10834 | 11538 | 10223 | 11706 | 12873 | 26289 |
| | 3% | 4% | 3% | 3% | 4% | 6% |
| grade 6 events | 6067 | 6763 | 5729 | 5950 | 6913 | 85231 |
| | 2% | 2% | 1% | 2% | 2% | 22% |
| grade 7 events | 226971 | 230030 | 258204 | 250049 | 265808 | 207099 |
| | 82% | 82% | 85% | 84% | 84% | 54% |

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 | 132.841164 | 132.8467822656292 | Subarray requested | NONE | NONE |
| Pointing Dec | 11.853338 | 11.82644933115518 | Alternating exposures requested | N | N |
| Pointing Roll | 251.312159 | 251.5196818234696 | 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 | 107696003.184000 | 107695176.30384 | | | |
| Observation start date | 2001-05-31T11:32:19 | 2001-05-31T11:19:36 | | | |
| Observation end time | 107743103.184000 | 107743677.25573 | | | |
| Observation end date | 2001-06-01T00:37:19 | 2001-06-01T00:47:57 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



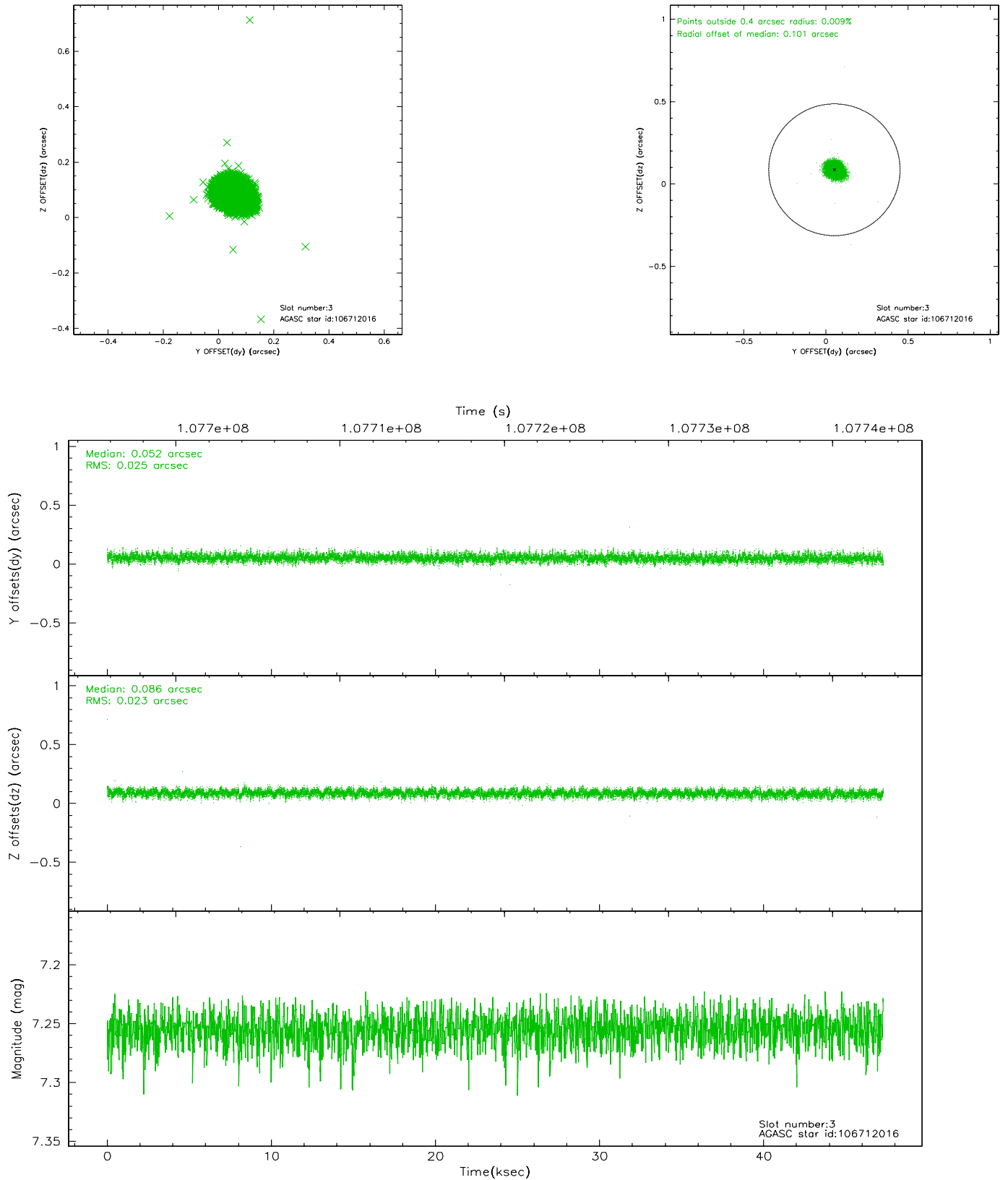


Slot Statistics

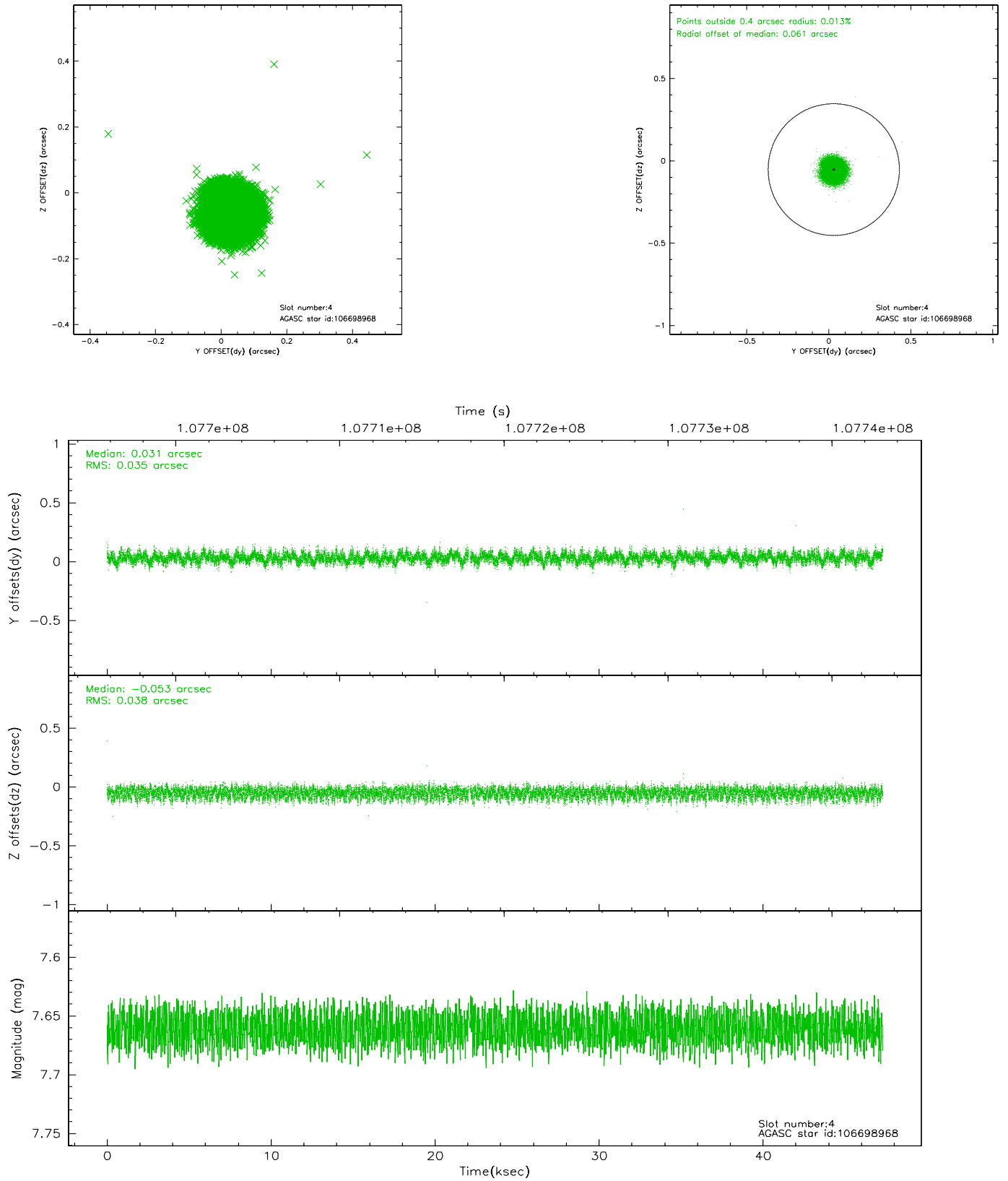
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|-----------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.24 | 11529 | -0.052 | -0.015 | 0.009 | 0.030 | 0.000000 | 0.000000 | 937.79 | -830.32 |
| 1 | FID | ACIS-I-4 | 7.18 | 11528 | -0.045 | 0.059 | 0.010 | 0.024 | 0.000000 | 0.000000 | 2157.84 | 1069.55 |
| 2 | FID | ACIS-I-5 | 7.23 | 11532 | -0.001 | 0.026 | 0.011 | 0.017 | 0.000000 | 0.000000 | -1810.17 | 1067.38 |
| 3 | GUIDE | 106712016 | 7.25 | 23062 | 0.052 | 0.086 | 0.036 | 0.060 | 132.984692 | 11.135900 | 2284.18 | 1308.08 |
| 4 | GUIDE | 106698968 | 7.66 | 23007 | 0.031 | -0.053 | 0.055 | 0.086 | 132.955650 | 11.894157 | -268.33 | 334.94 |
| 5 | GUIDE | 106702400 | 7.92 | 23060 | 0.034 | 0.058 | 0.056 | 0.088 | 133.126975 | 11.258985 | 1703.11 | 1641.58 |
| 6 | GUIDE | 106573432 | 7.87 | 23063 | -0.079 | -0.152 | 0.059 | 0.093 | 132.391049 | 12.170735 | -575.95 | -1867.13 |
| 7 | GUIDE | 106711848 | 8.90 | 23051 | -0.037 | 0.064 | 0.062 | 0.100 | 132.833745 | 12.302905 | -1524.72 | -543.32 |

2.4 Star Slots

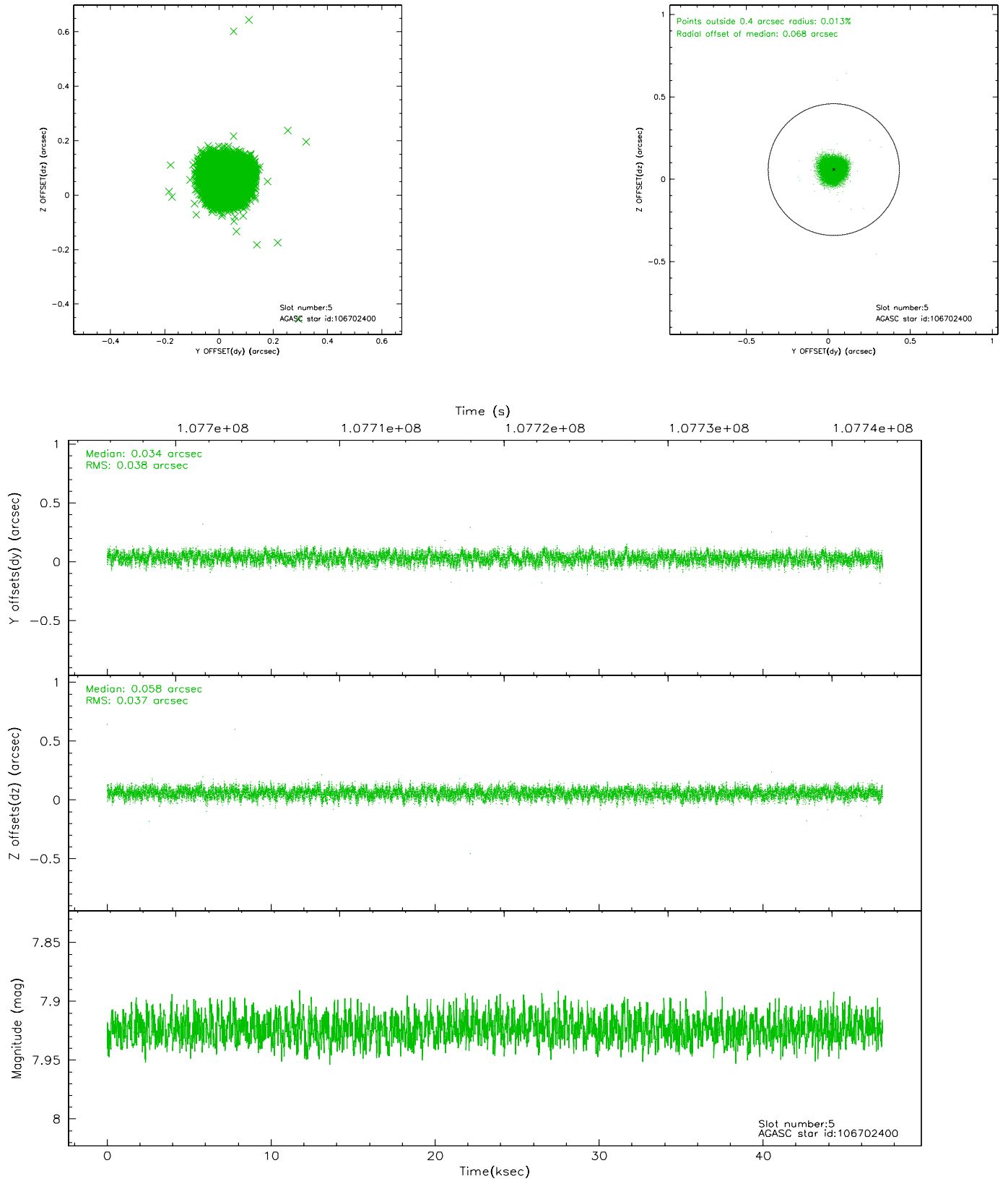
2.4.1 Slot 3



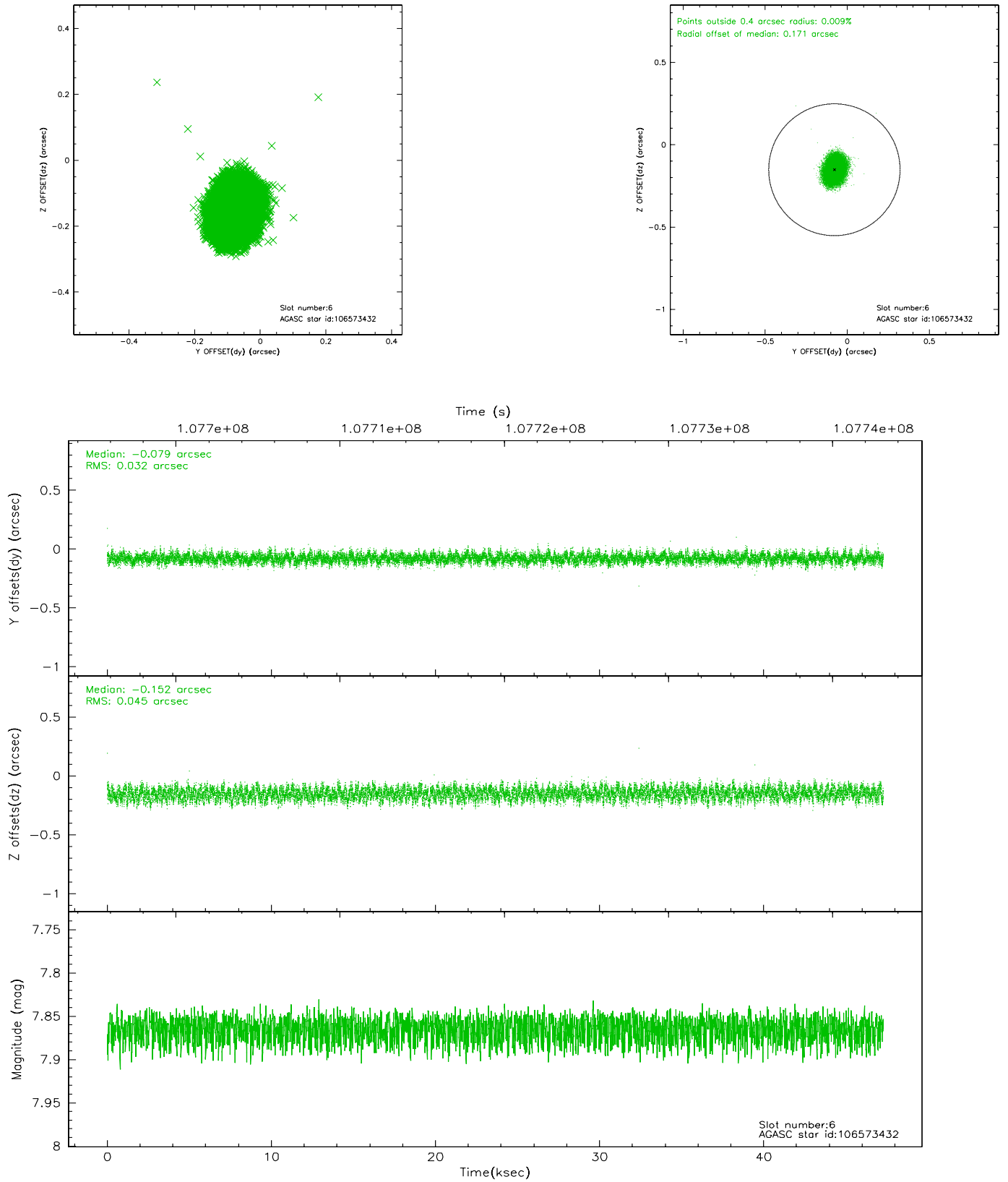
2.4.2 Slot 4



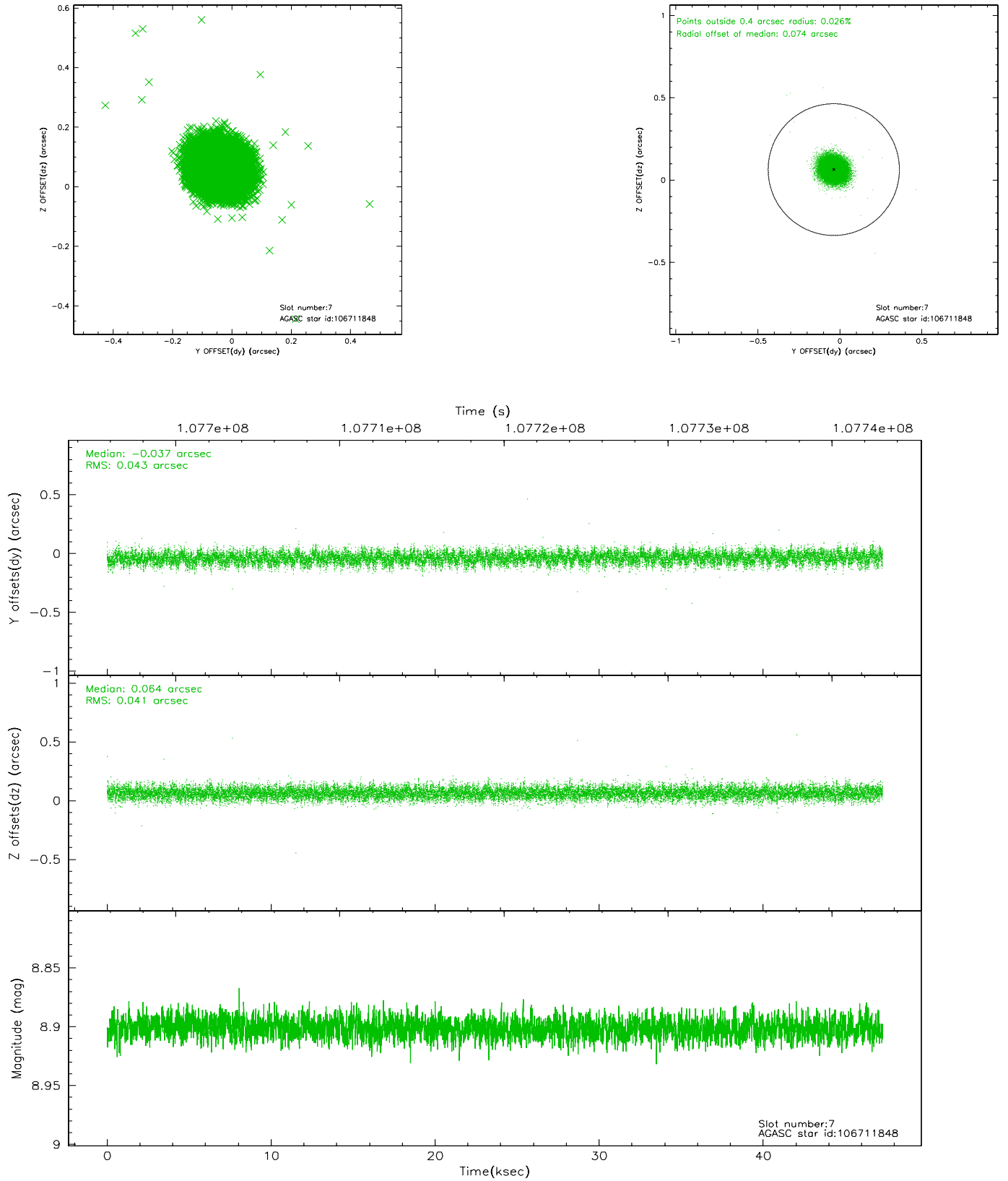
2.4.3 Slot 5



2.4.4 Slot 6

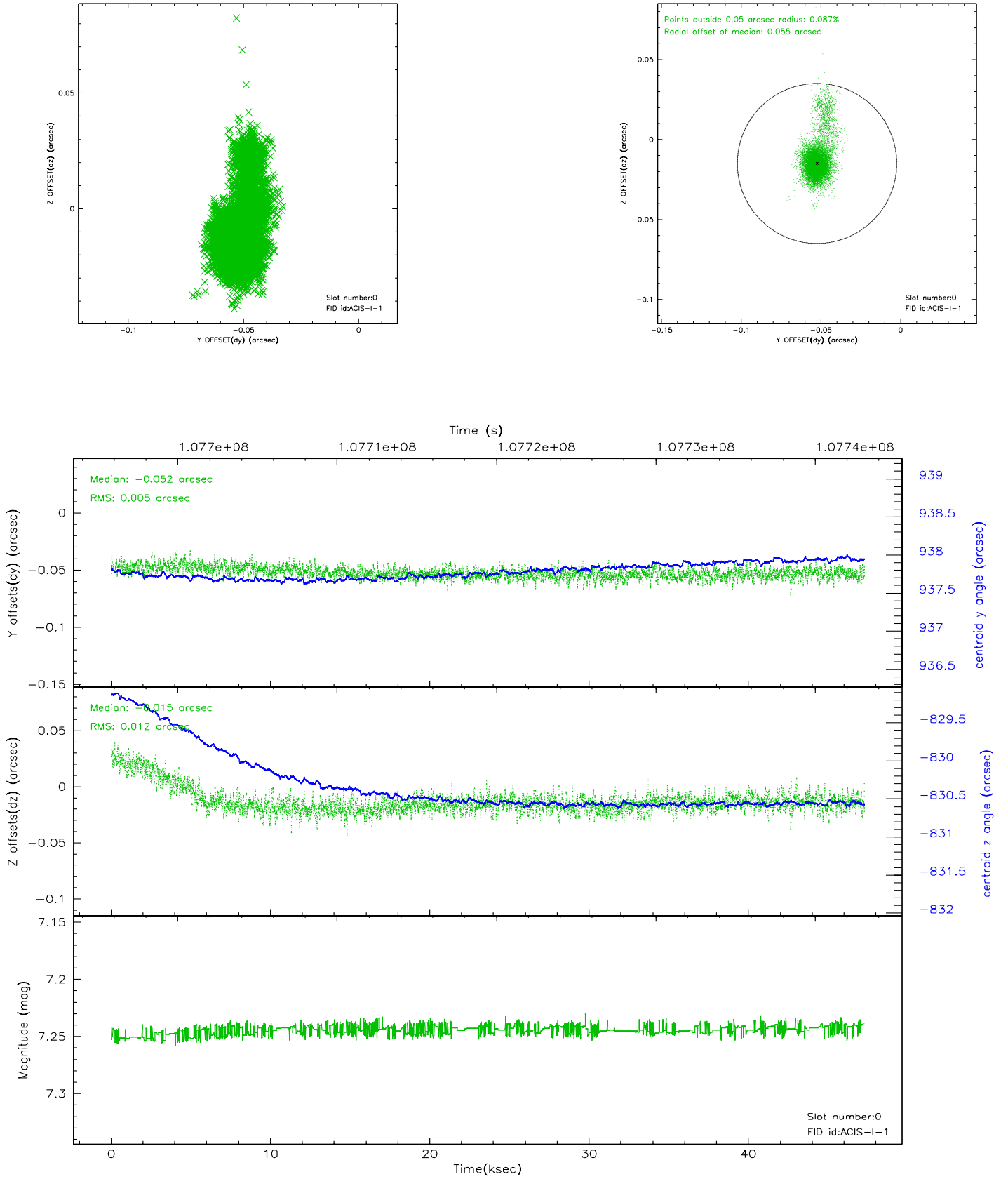


2.4.5 Slot 7

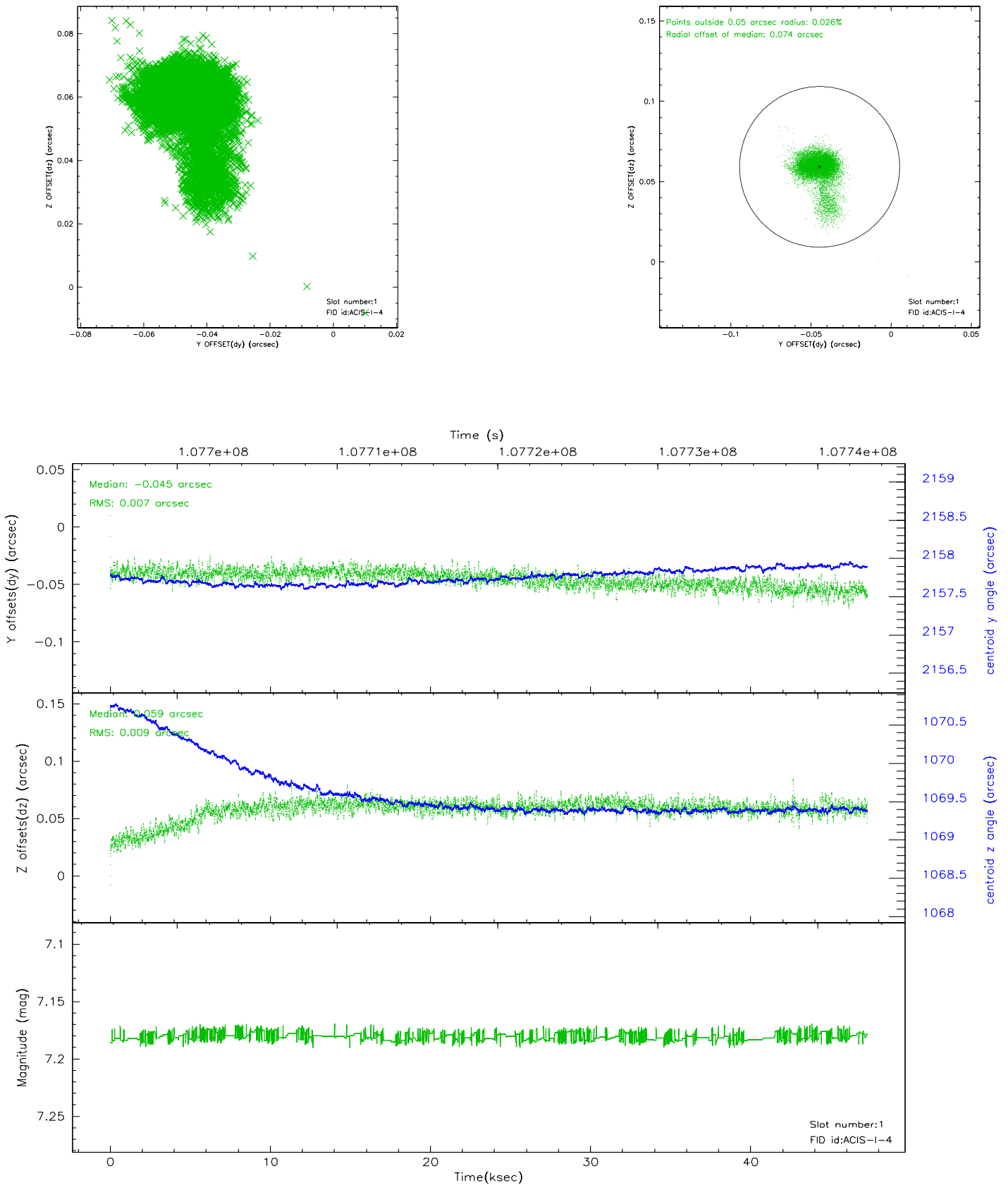


2.5 FID Slots

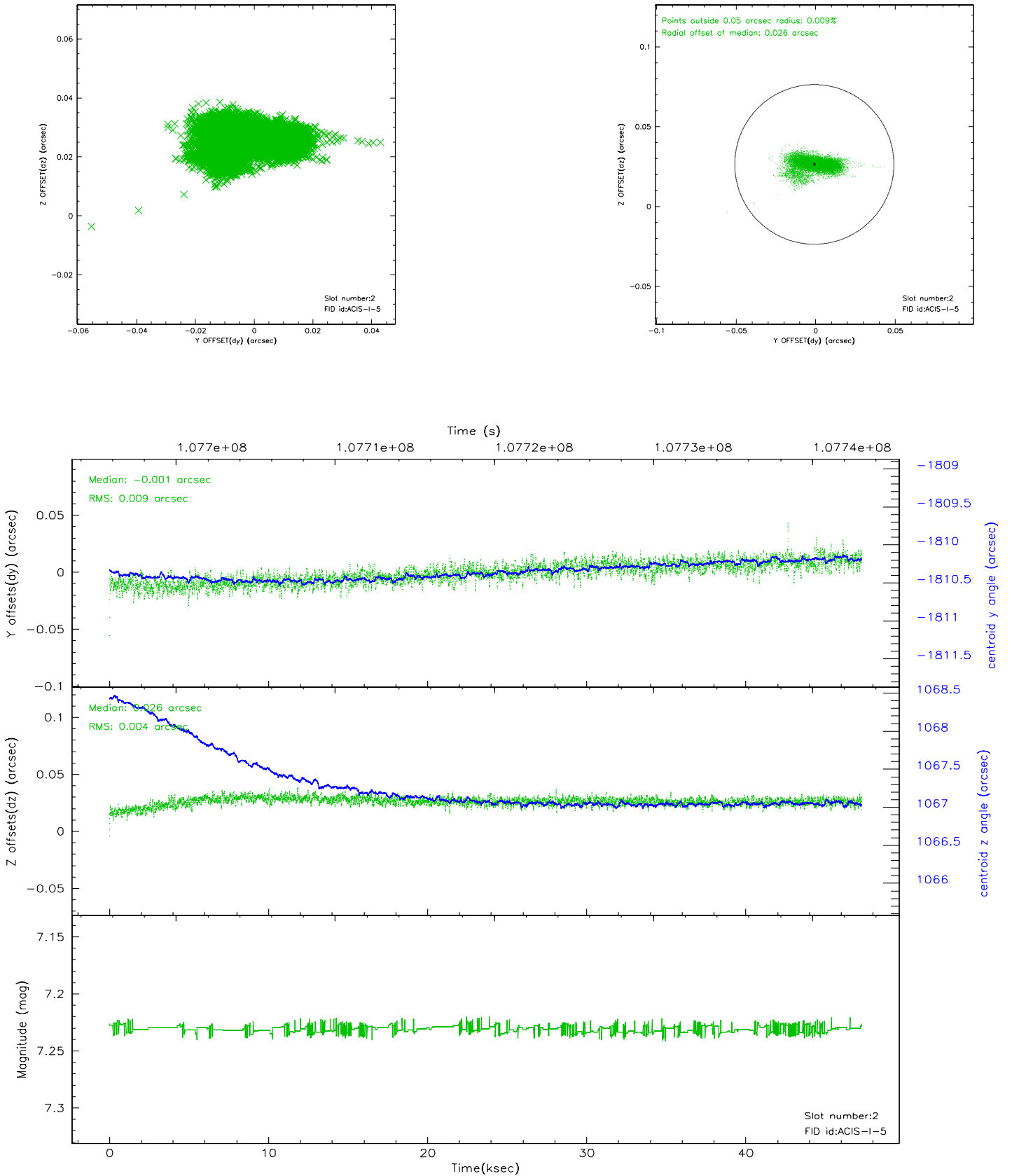
2.5.1 Slot 0



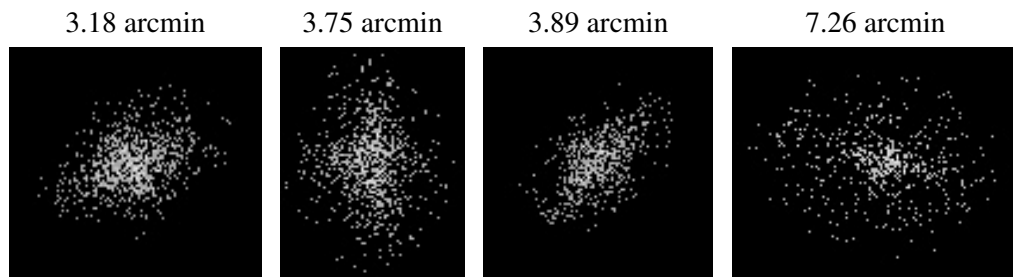
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2006.11.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 46.841 |

A.2 Comments