

V&V Reference Report

L2 ASCDS Version : 7.6.7.2

Observation 4472 - L2 Version 001
Chandra X-Ray Center

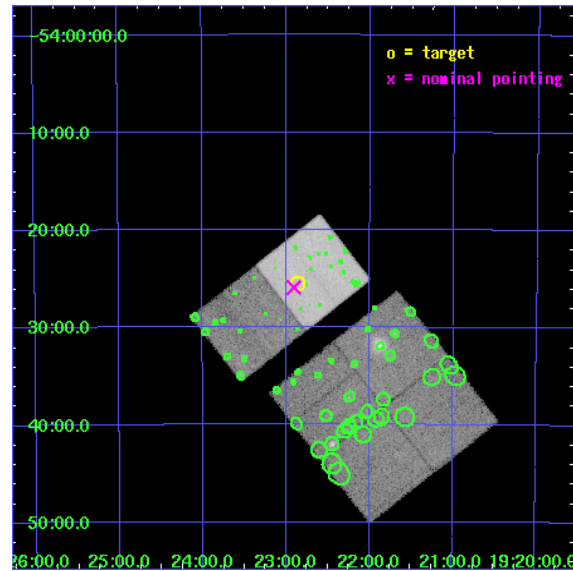
L2 Processing Date : Apr 26 2006

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

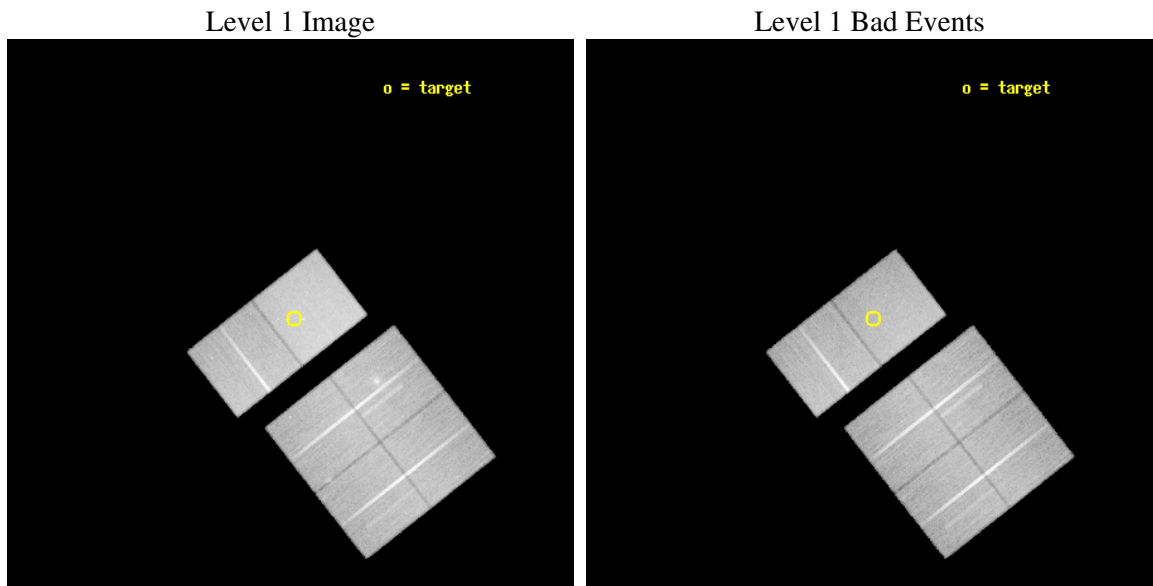
| | |
|----------|---|
| seq_num | 200241 |
| obs_id | 4472 |
| title | AGE AND TEMPERATURE DEPENDENCE OF X-RAY ACTIVITY AT THE COOL END OF THE MAIN-SEQUENCE |
| observer | Dr. Beate Stelzer |
| object | HR 7329 B |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 290.715833 |
| dec_targ | -54.425 |
| ra_nom | 290.72689763692 |
| dec_nom | -54.432187029375 |
| roll_nom | 321.9391126283 |
| revision | 2 |
| ontime | 46959.99982506 |
| livetime | 46365.364031358 |
| ontime0 | 46959.99982506 |
| ontime1 | 46953.517854512 |
| ontime2 | 46959.99982506 |
| ontime3 | 46959.99982506 |
| ontime6 | 46956.758844763 |
| ontime7 | 46959.99982506 |
| l2events | 342882 |



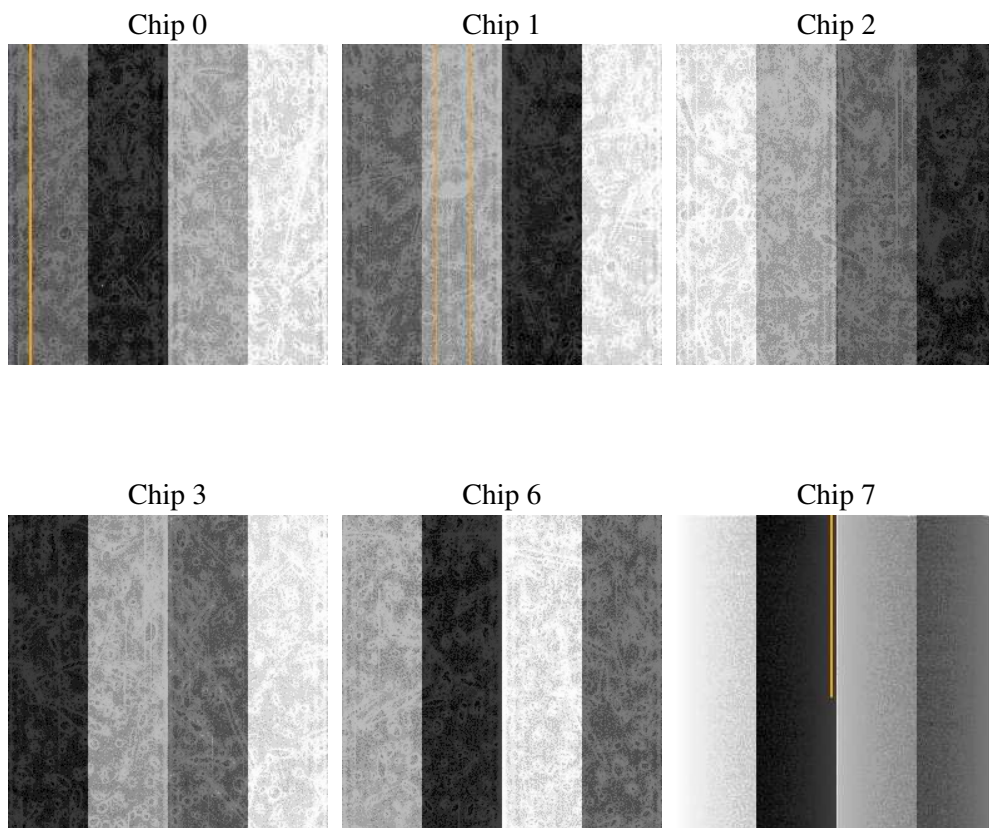
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 3 |
| ascdsver | 7.6.7.2 |
| caldsver | 3.2.1 |
| date | 2006-04-26T17:11:00 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 47000.000000 |
| ontime | 46965.491168469 |
| ontime0 | 46965.491148561 |
| ontime1 | 46959.009178013 |
| ontime2 | 46965.491148561 |
| ontime3 | 46965.491168469 |
| ontime6 | 46962.250188172 |
| ontime7 | 46965.491168469 |
| l1events | 2012858 |

2.1.4 Events

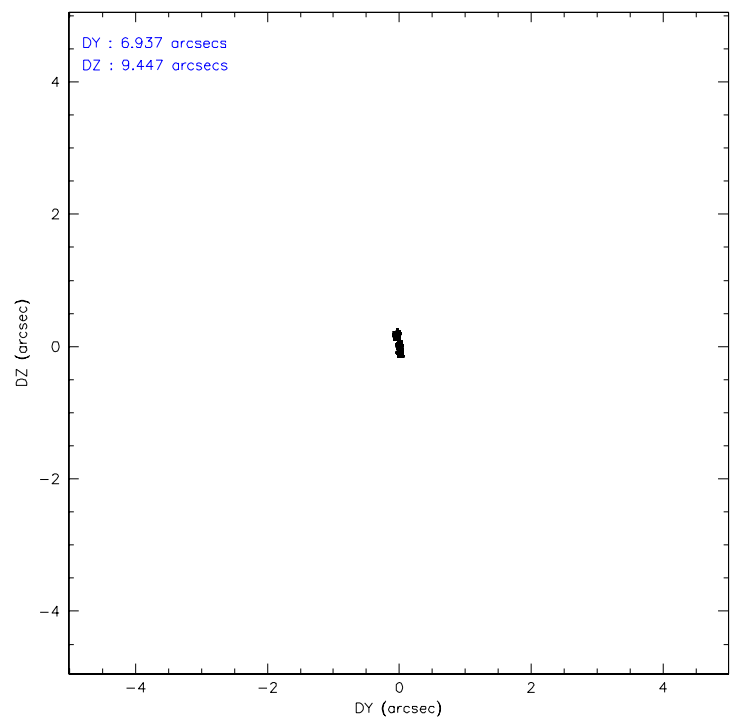
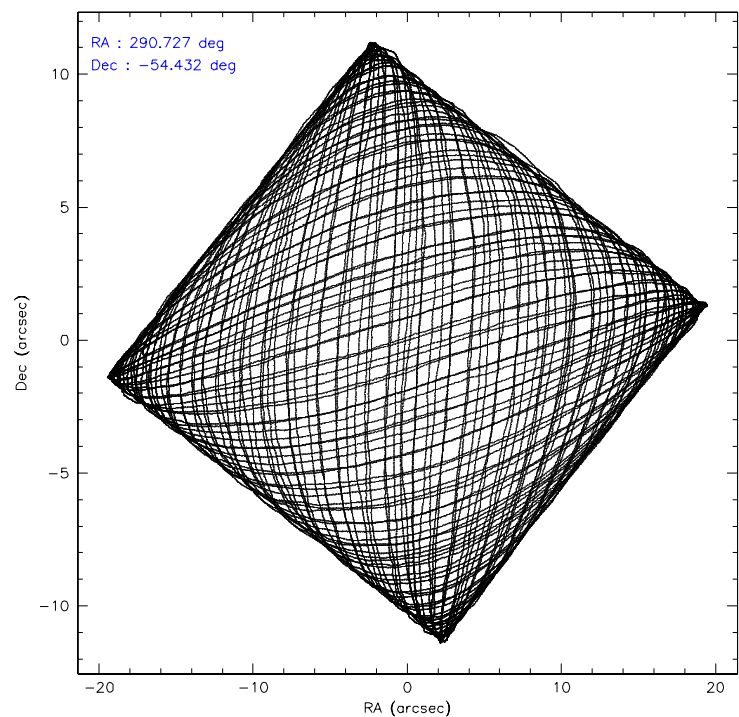
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 307709 | 294302 | 314796 | 324435 | 331478 | 440138 |
| rejected events | 267706 | 254083 | 275793 | 278801 | 291487 | 271790 |
| rejected % | 86% | 86% | 87% | 85% | 87% | 61% |

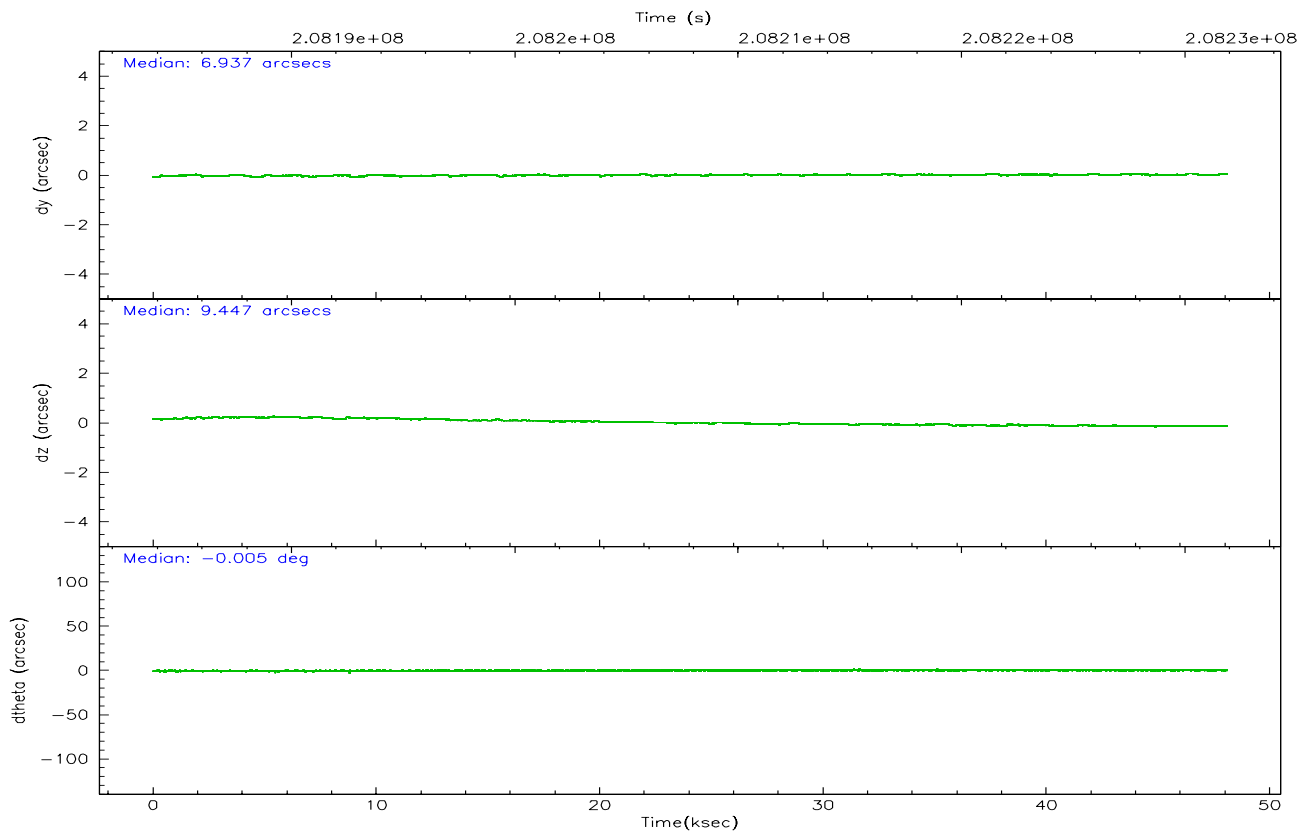
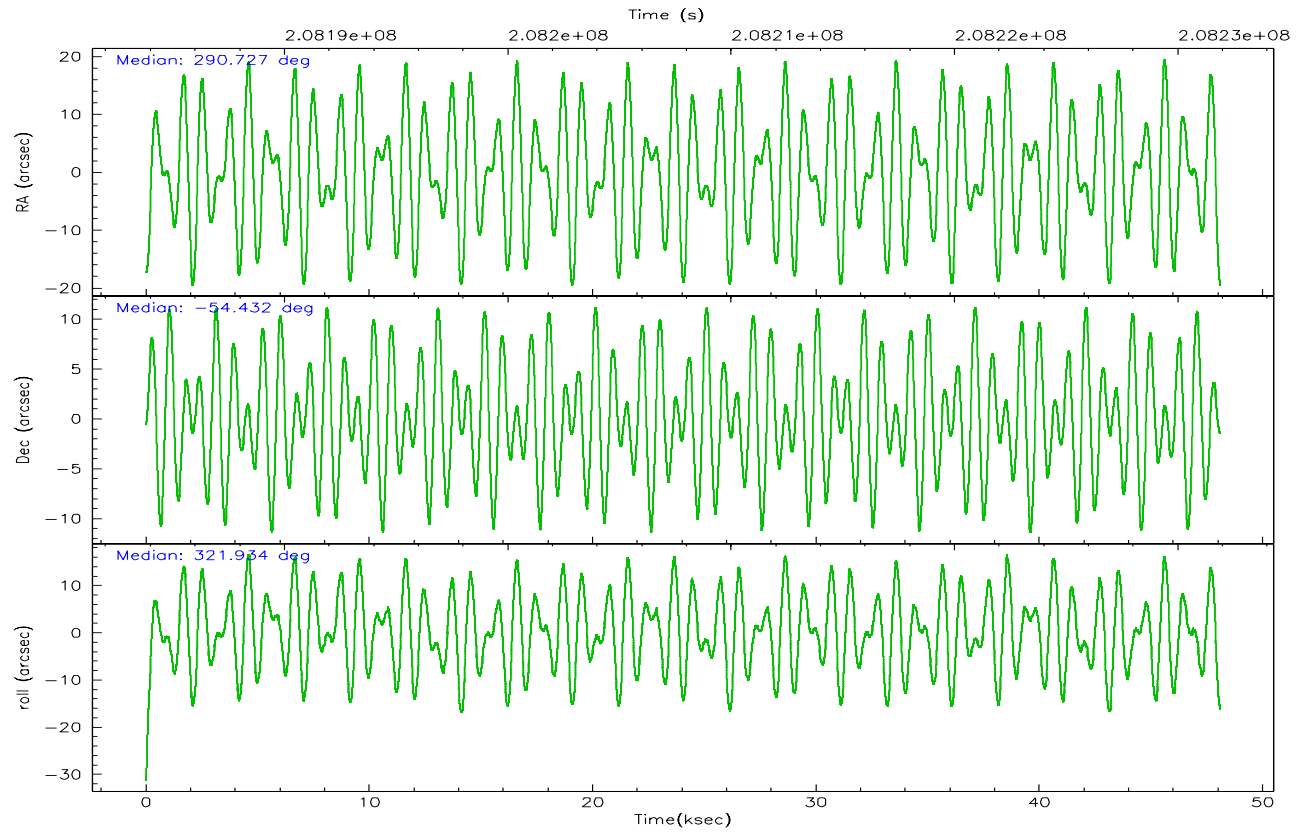
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|--------|--------|--------|--------|--------|--------|
| grade 0 events | 17106 | 15701 | 17934 | 23387 | 16392 | 10632 |
| | 5% | 5% | 5% | 7% | 4% | 2% |
| grade 1 events | 186 | 168 | 204 | 234 | 156 | 211 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 8370 | 8747 | 7726 | 7820 | 8225 | 41683 |
| | 2% | 2% | 2% | 2% | 2% | 9% |
| grade 3 events | 3902 | 3941 | 3653 | 3894 | 3763 | 8672 |
| | 1% | 1% | 1% | 1% | 1% | 1% |
| grade 4 events | 3568 | 3936 | 3541 | 3841 | 3662 | 8394 |
| | 1% | 1% | 1% | 1% | 1% | 1% |
| grade 5 events | 13730 | 13542 | 12637 | 14252 | 15555 | 28560 |
| | 4% | 4% | 4% | 4% | 4% | 6% |
| grade 6 events | 7060 | 7897 | 6150 | 6693 | 7953 | 98974 |
| | 2% | 2% | 1% | 2% | 2% | 22% |
| grade 7 events | 253787 | 240370 | 262951 | 264314 | 275772 | 243012 |
| | 82% | 81% | 83% | 81% | 83% | 55% |

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 | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | NONE | NONE |
| Pointing RA | 290.680484 | 290.7268976369156 | Alternating exposures requested | N | N |
| Pointing Dec | -54.428747 | -54.43218702937484 | Primary exposure time | 0.000000 | 3.2 |
| Pointing Roll | 321.744726 | 321.9391126282985 | | | |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | | | |
| SIM defocus (mm) | 0 | 0.001444936568705701 | | | |
| SIM translation stage pos (mm) | -190.132523 | -190.1400660498719 | | | |
| SIM translation stage offset (mm) | 0 | 0.00754346686406393 | | | |
| Observation start time | 208184910.184000 | 208183495.00411 | | | |
| Observation start date | 2004-08-06T13:07:26 | 2004-08-06T12:44:55 | | | |
| Observation end time | 208231910.184000 | 208232842.6063 | | | |
| Observation end date | 2004-08-07T02:10:46 | 2004-08-07T02:27:22 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



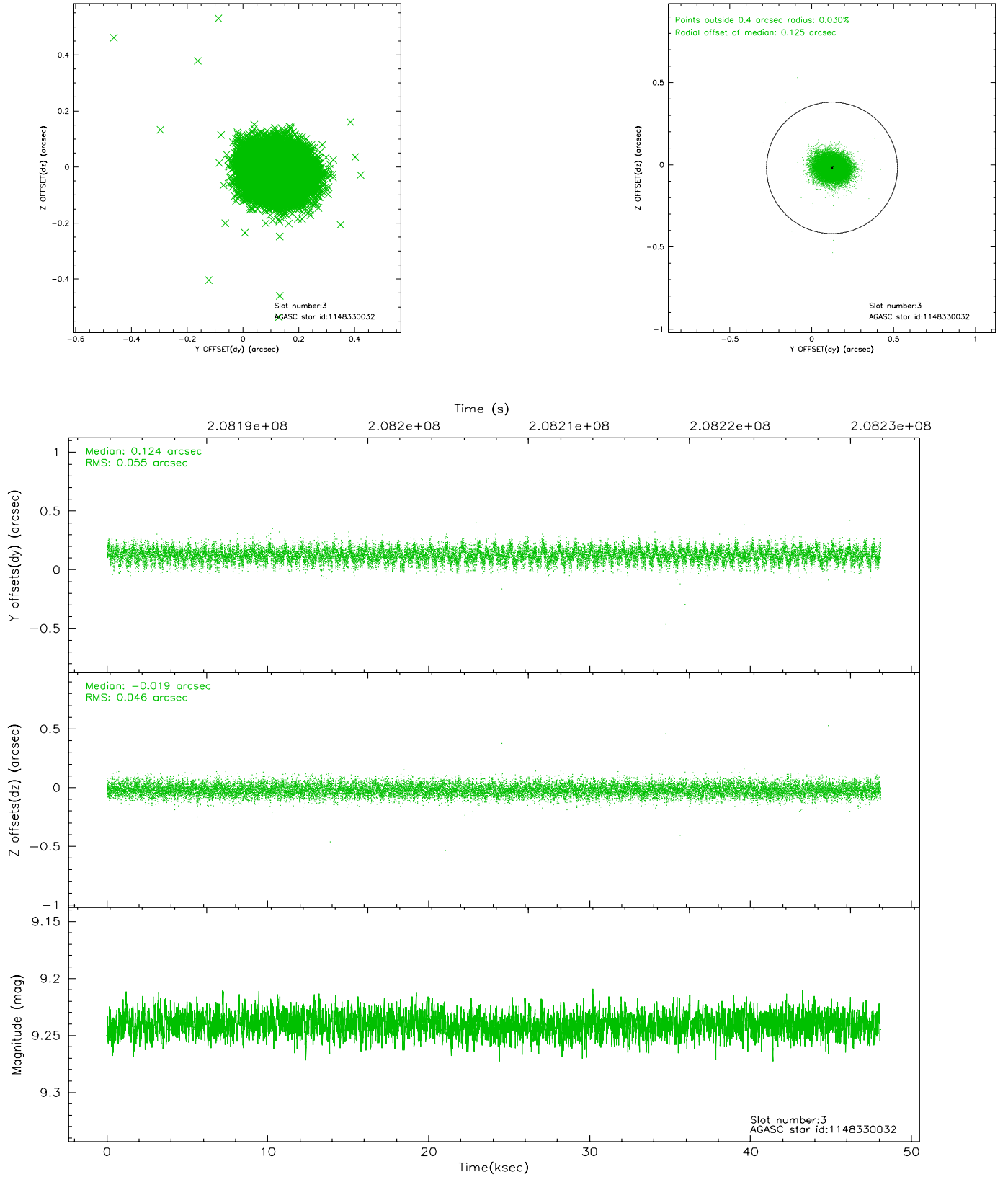


Slot Statistics

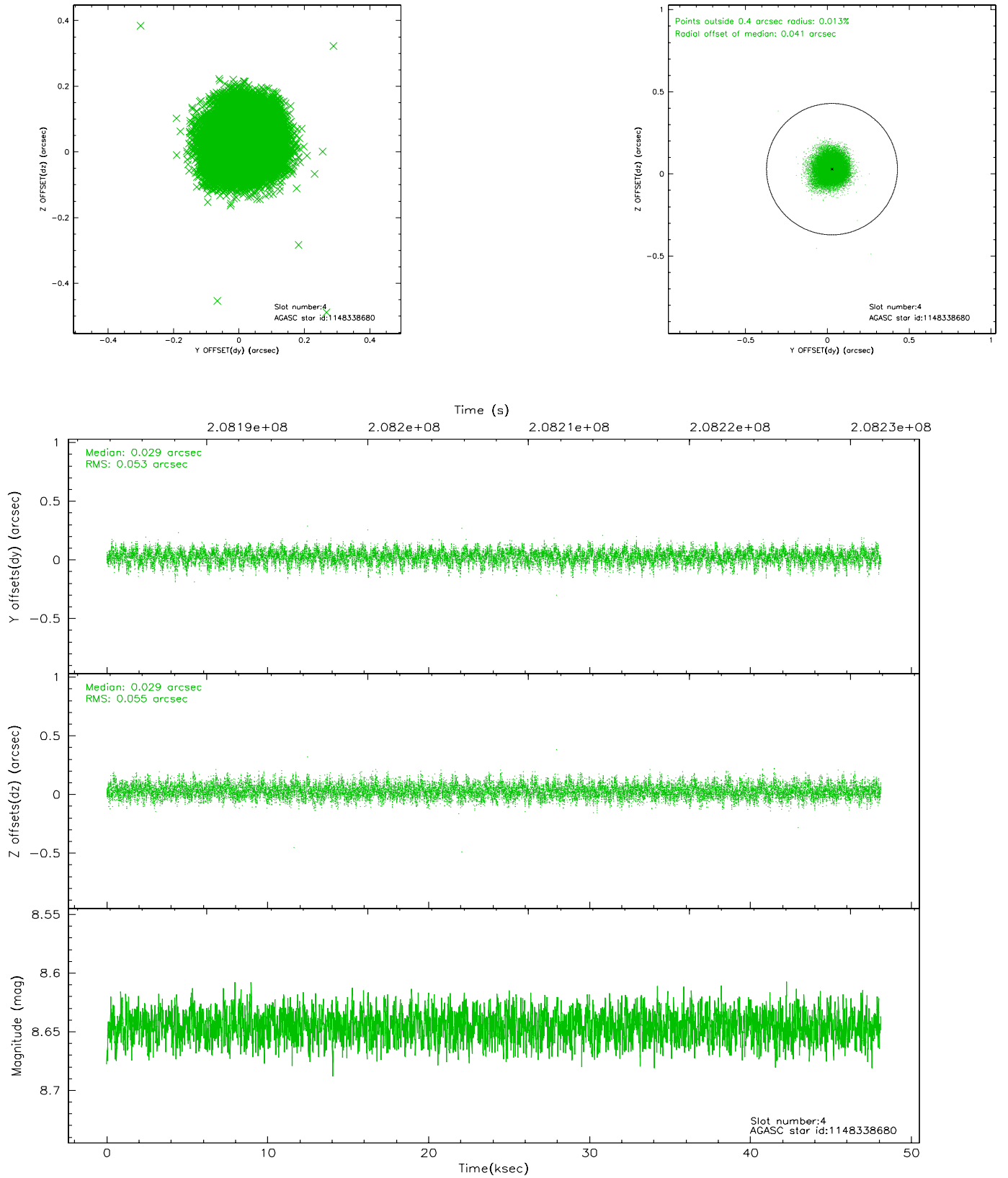
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|------------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-S-2 | 7.10 | 11730 | -0.034 | -0.007 | 0.008 | 0.013 | 0.000000 | 0.000000 | -759.69 | -1730.72 |
| 1 | FID | ACIS-S-4 | 7.21 | 11731 | 0.037 | 0.018 | 0.005 | 0.009 | 0.000000 | 0.000000 | 2153.63 | 177.84 |
| 2 | FID | ACIS-S-5 | 7.23 | 11729 | -0.033 | -0.003 | 0.007 | 0.013 | 0.000000 | 0.000000 | -1812.58 | 171.42 |
| 3 | GUIDE | 1148330032 | 9.24 | 23453 | 0.124 | -0.019 | 0.076 | 0.123 | 291.734022 | -54.353472 | 1578.30 | 1568.50 |
| 4 | GUIDE | 1148338680 | 8.64 | 23456 | 0.029 | 0.029 | 0.081 | 0.132 | 291.475219 | -54.091194 | 571.44 | 1985.75 |
| 5 | GUIDE | 1148342120 | 7.24 | 23458 | -0.170 | -0.036 | 0.053 | 0.087 | 290.423041 | -54.185884 | -966.24 | 349.52 |
| 6 | GUIDE | 1148715584 | 8.16 | 23460 | -0.100 | -0.015 | 0.068 | 0.114 | 289.990878 | -54.459039 | -1060.98 | -984.87 |
| 7 | GUIDE | 1148858008 | 7.89 | 23456 | 0.114 | 0.042 | 0.077 | 0.125 | 291.245754 | -55.106491 | 2428.14 | -1198.67 |

2.4 Star Slots

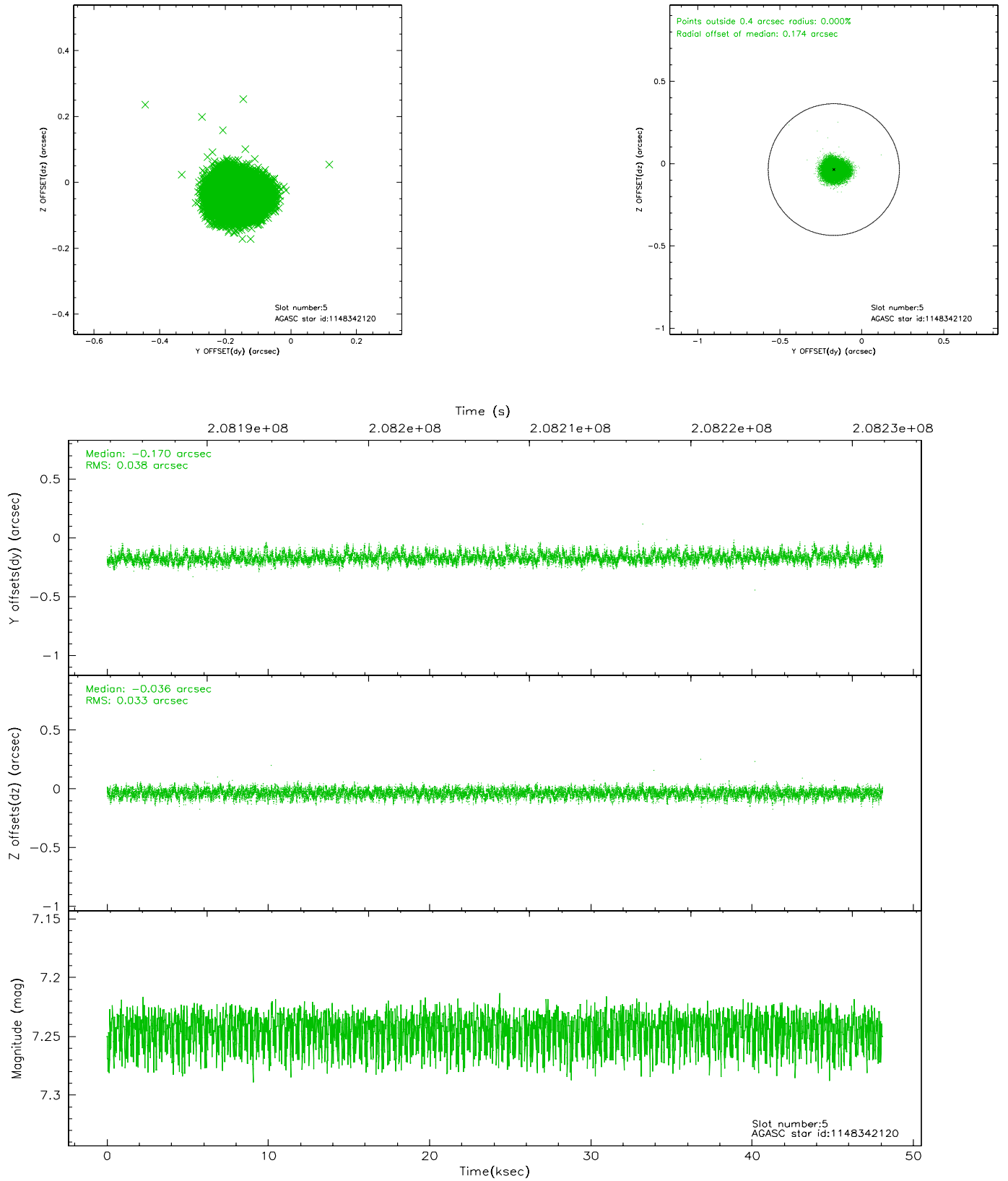
2.4.1 Slot 3



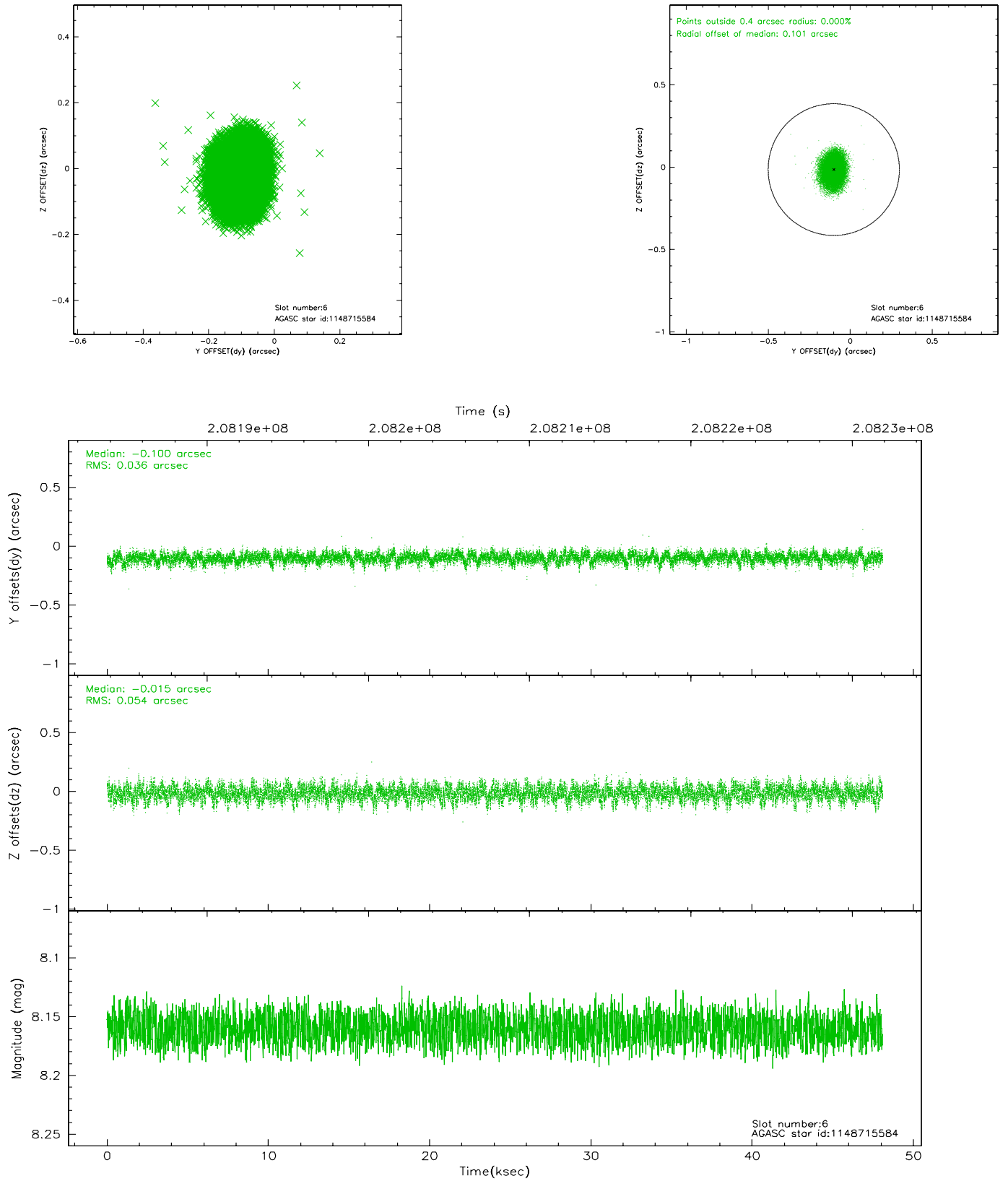
2.4.2 Slot 4



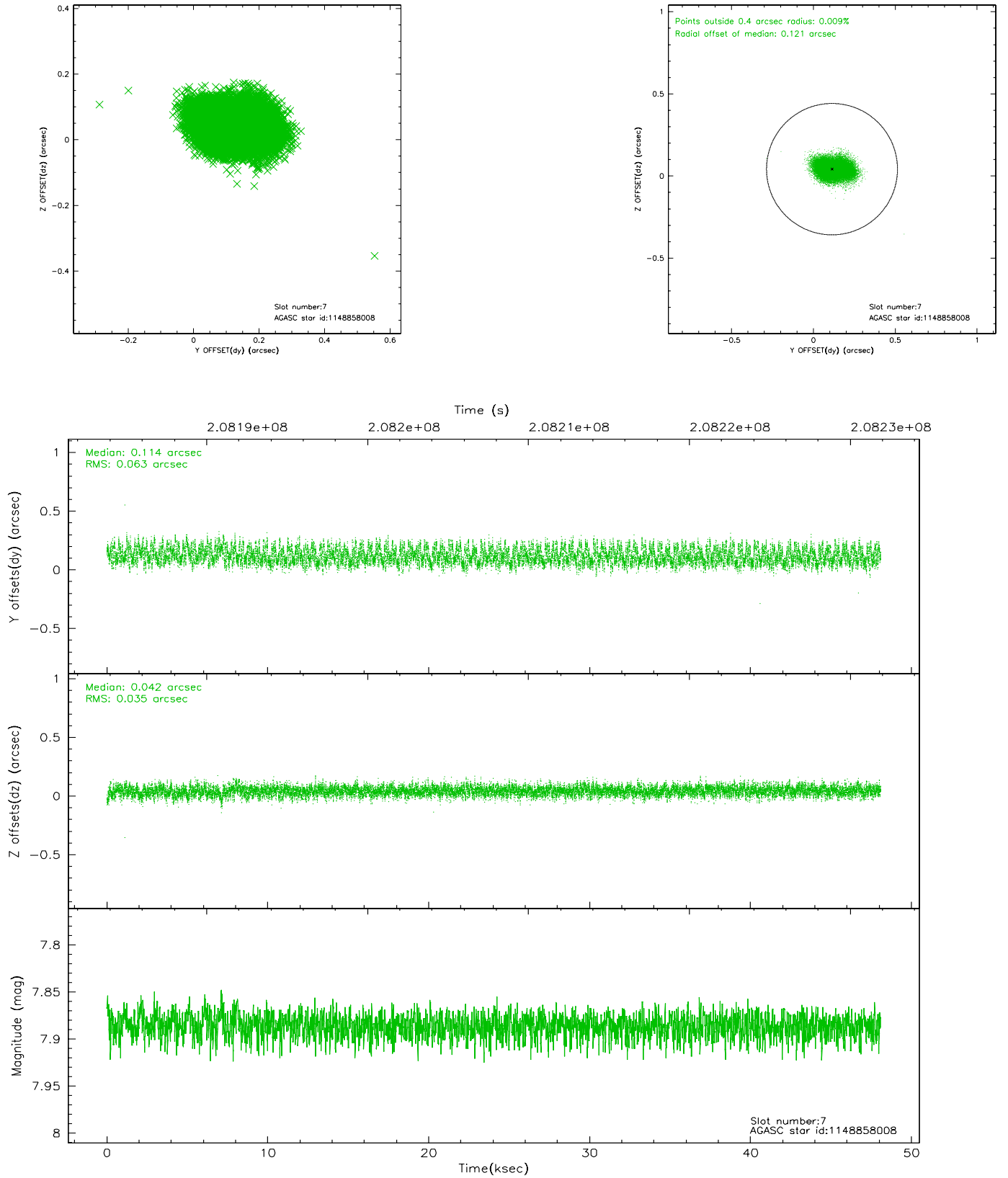
2.4.3 Slot 5



2.4.4 Slot 6

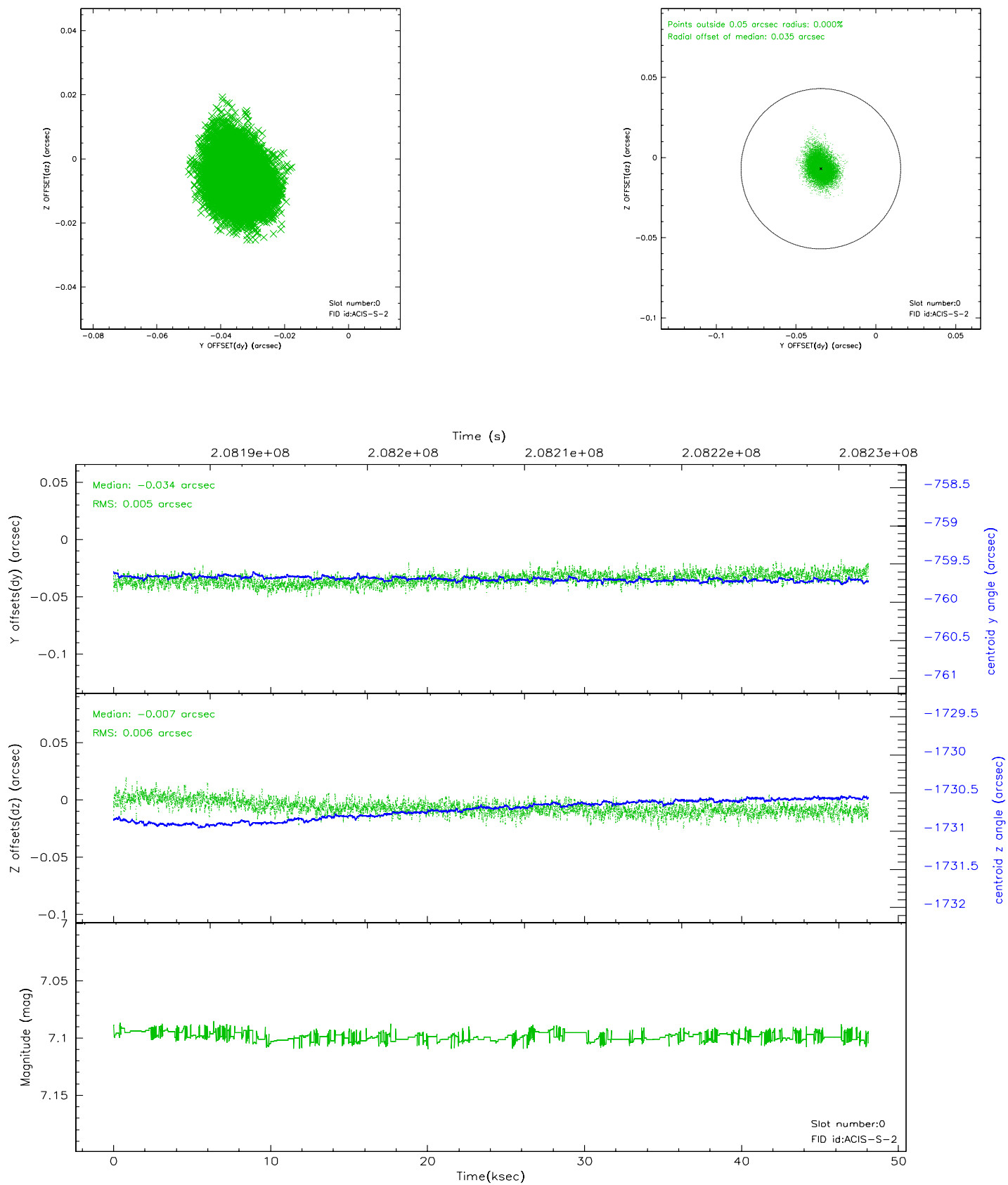


2.4.5 Slot 7

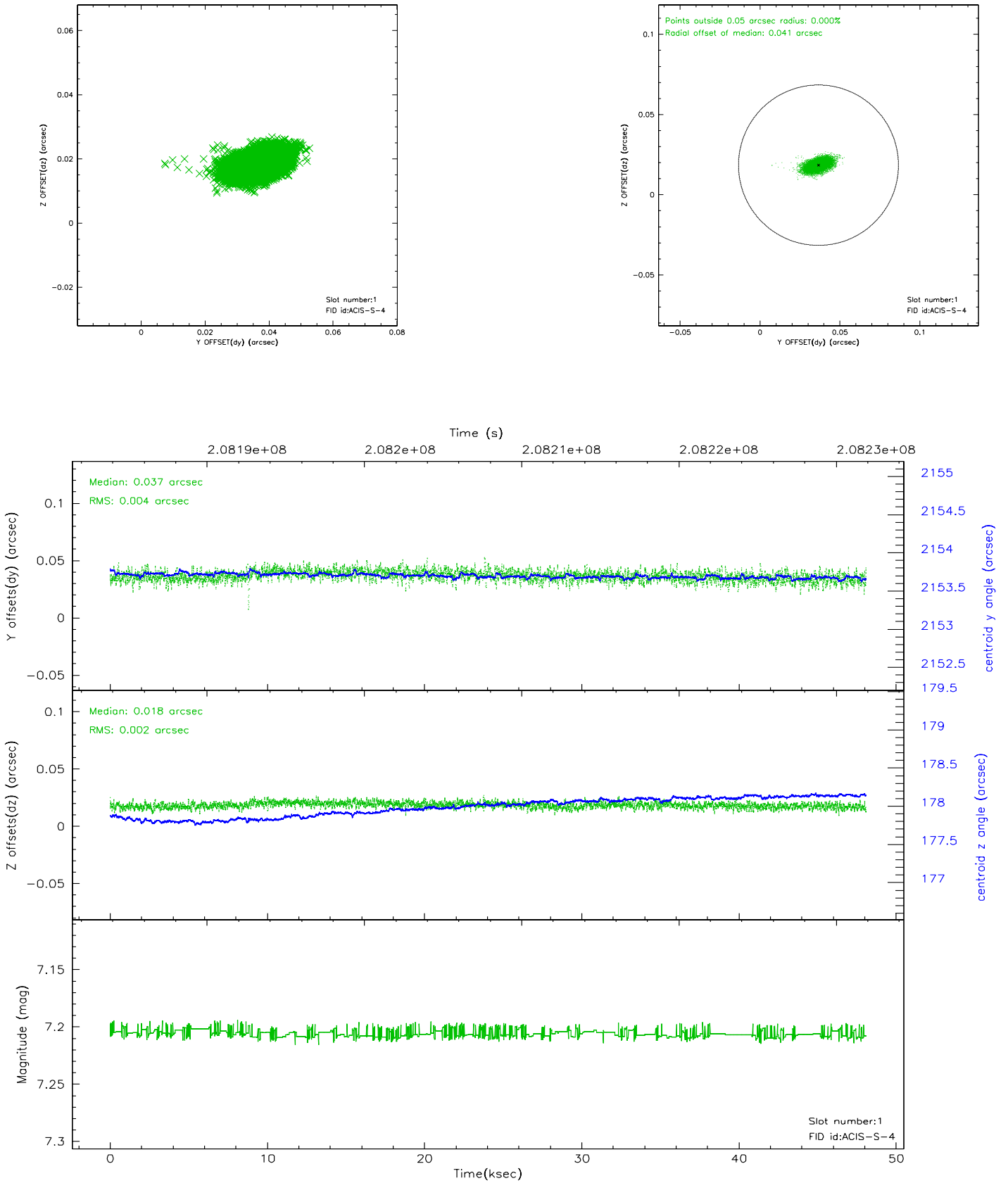


2.5 FID Slots

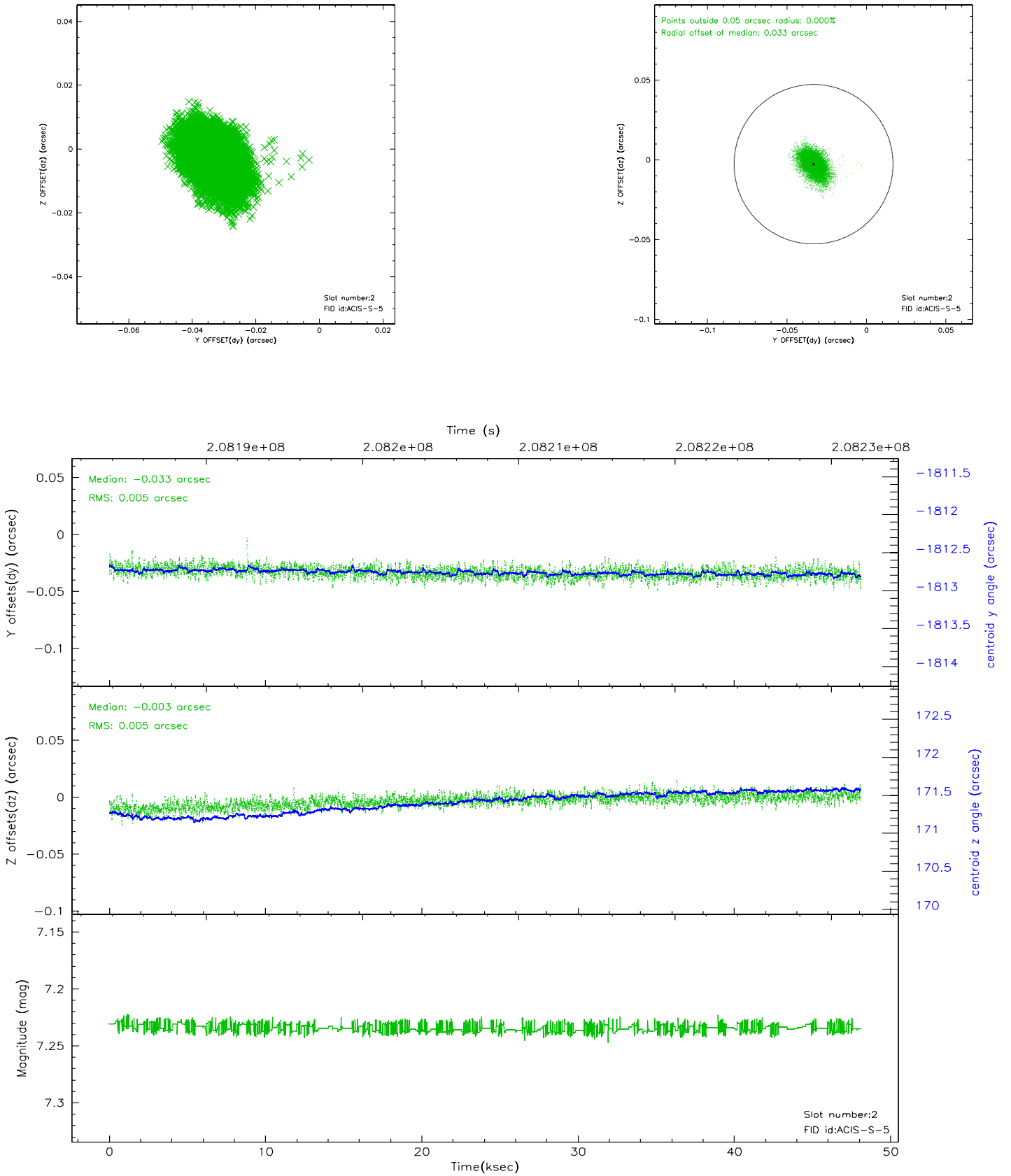
2.5.1 Slot 0



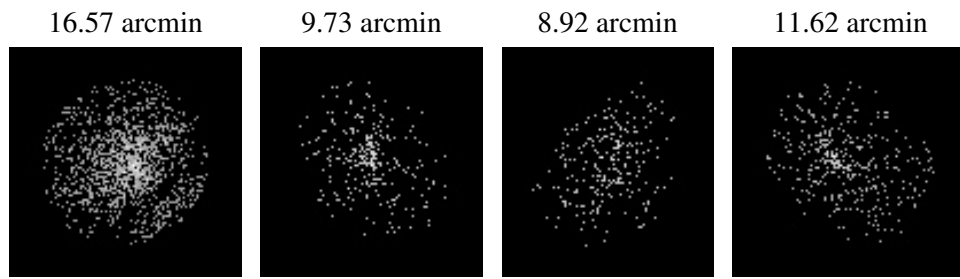
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2006.04.26 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 46.959 |

A.2 Comments

Focal plane temperature is elevated at start of observation.