

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13534 - L2 Version 2
Chandra X-Ray Center

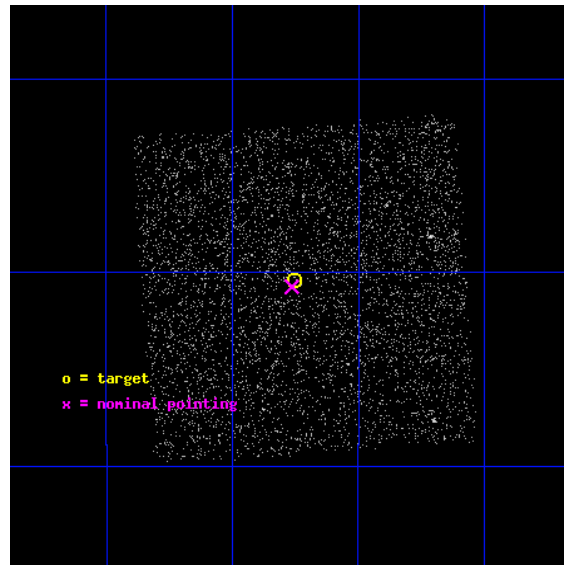
L2 Processing Date : Mar 2 2012

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1 Front

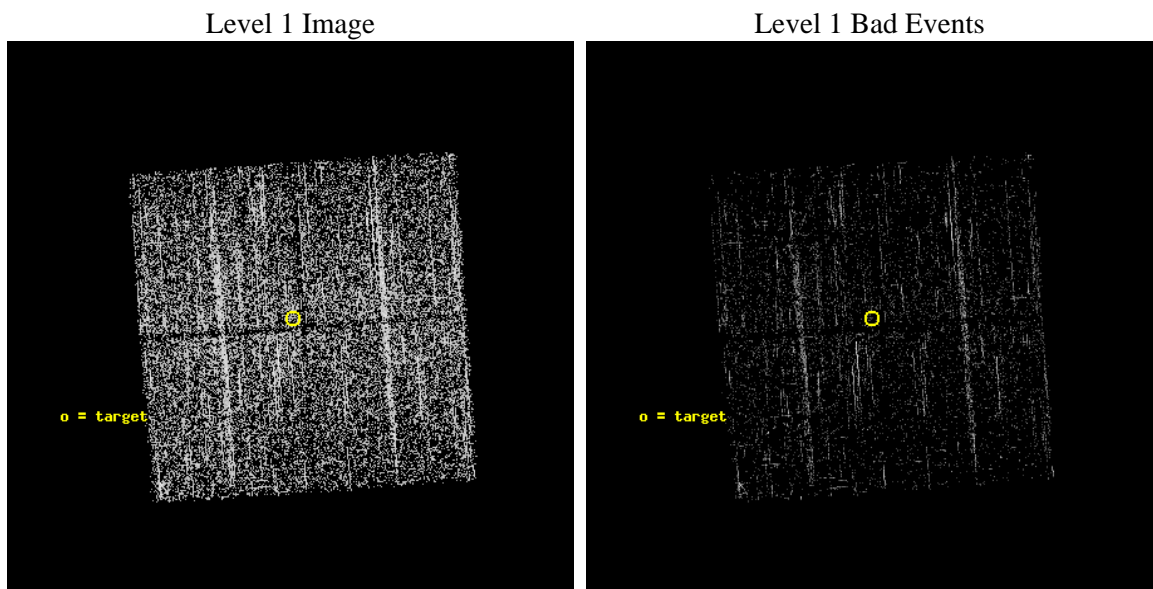
| | | |
|----------|--|---|
| seq_num | 401310 | Sequence number |
| obs_id | 13534 | Observation id |
| title | Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge | Proposal title |
| observer | dr P Jonker | Principal investigator |
| object | GBS13-1 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 269.063647 | Observer's specified target RA [deg] |
| dec_targ | -28.340238 | Observer's specified target Dec [deg] |
| ra_nom | 269.06597891515 | Nominal RA [deg] |
| dec_nom | -28.34587251888 | Nominal Dec [deg] |
| roll_nom | 265.95485028779 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 1971.6000151634 | Sum of GTIs [s] |
| livetime | 1945.8396094945 | Livetime [s] |
| ontime0 | 1971.6000151634 | Sum of GTIs [s] |
| ontime1 | 1971.6000151634 | Sum of GTIs [s] |
| ontime2 | 1968.4590548277 | Sum of GTIs [s] |
| ontime3 | 1971.6000151634 | Sum of GTIs [s] |
| l2events | 5703 | Number of level 2 events |



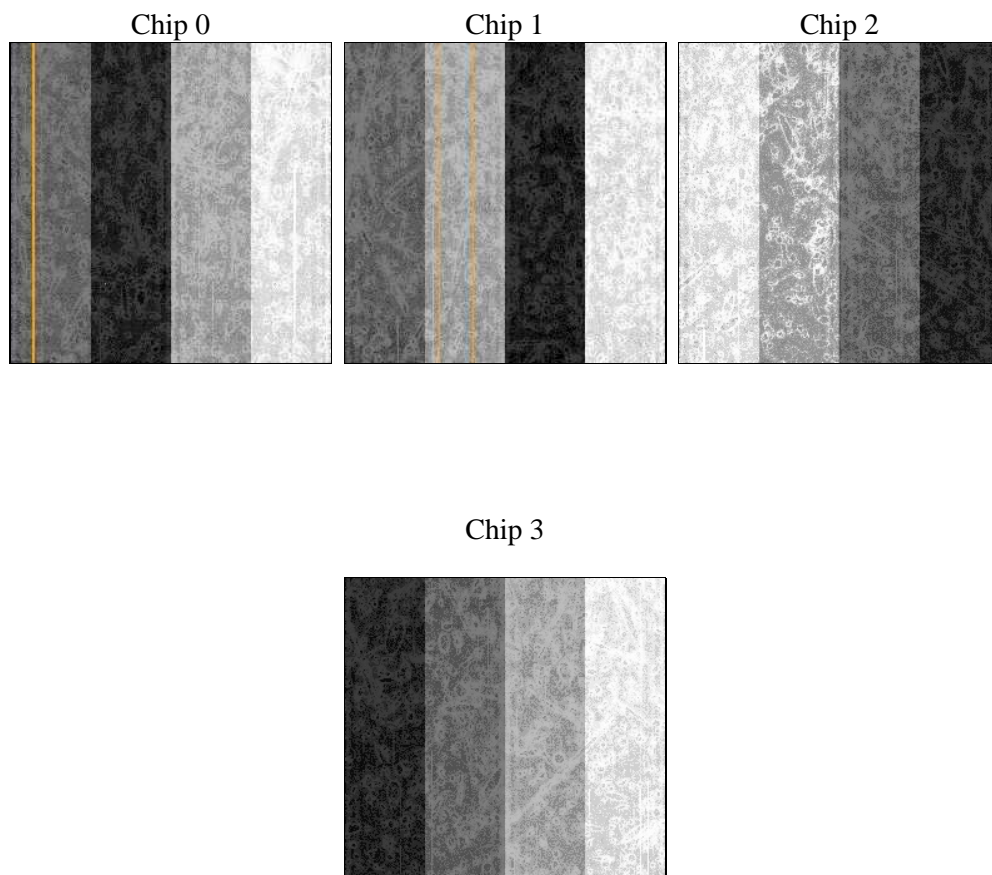
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 2180.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3 | Processing system revision | ontime | 1971.6000151634 | Sum of GTIs [s] |
| caldsver | 4.4.8 | | ontime0 | 1971.6000151634 | Sum of GTIs [s] |
| date | 2012-03-02T11:55:20 | Date and time of file creation | ontime1 | 1971.6000151634 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 1968.4590548277 | Sum of GTIs [s] |
| | | | ontime3 | 1971.6000151634 | Sum of GTIs [s] |
| | | | l1events | 48375 | Number of level 1 events |

2.1.4 Events

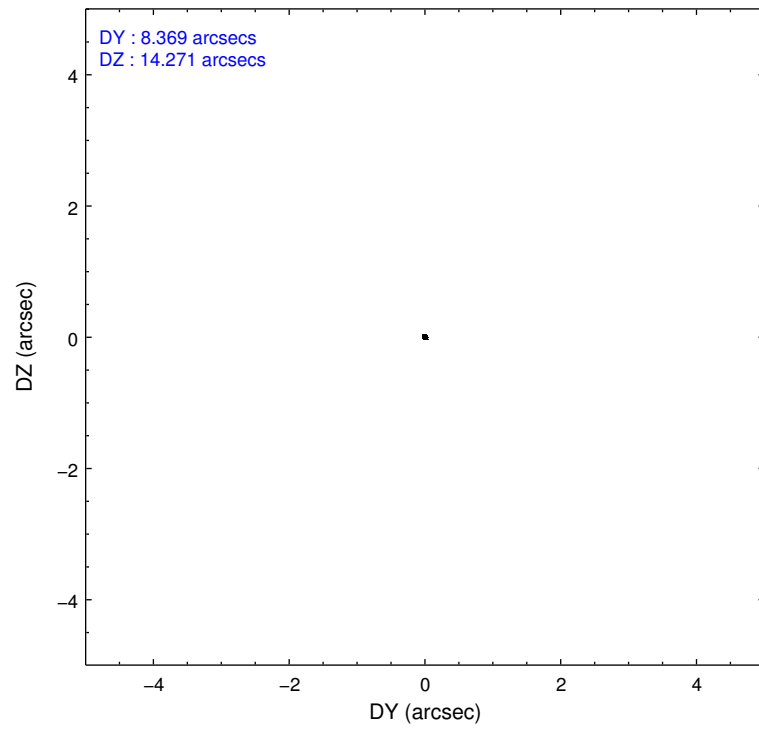
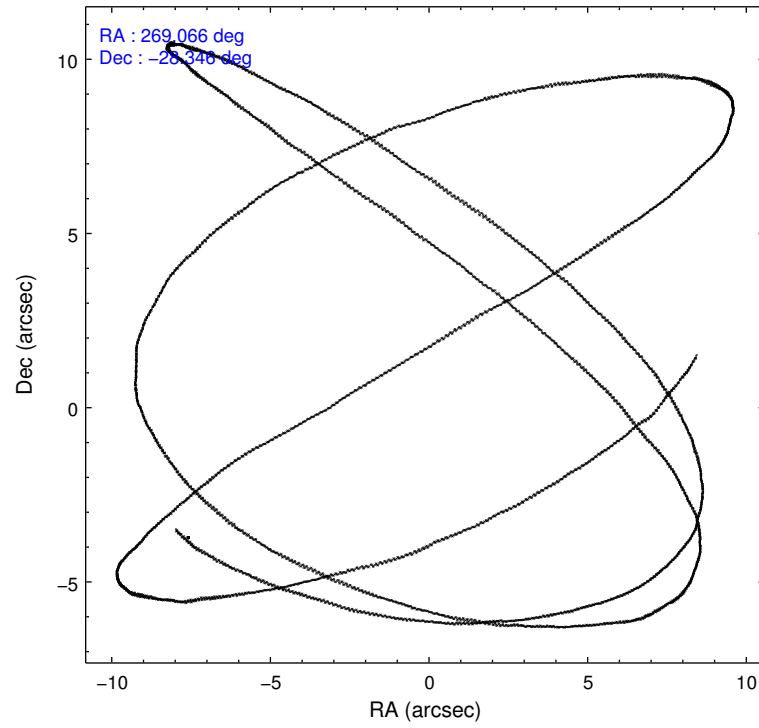
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|-----------------|-------|-------|-------|-------|
| level 1 events | 11093 | 11936 | 12750 | 12596 |
| rejected events | 9467 | 10123 | 11058 | 10990 |
| rejected % | 85% | 84% | 86% | 87% |

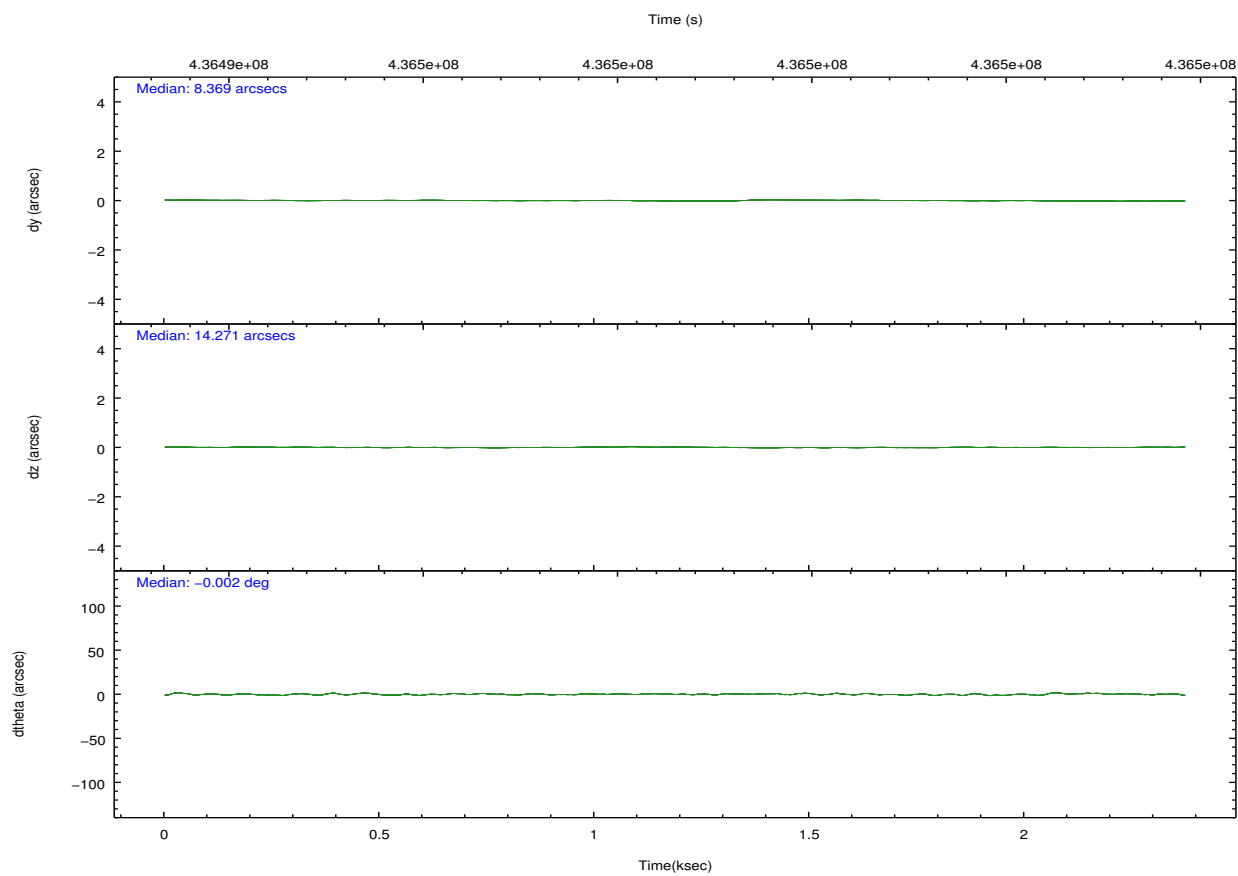
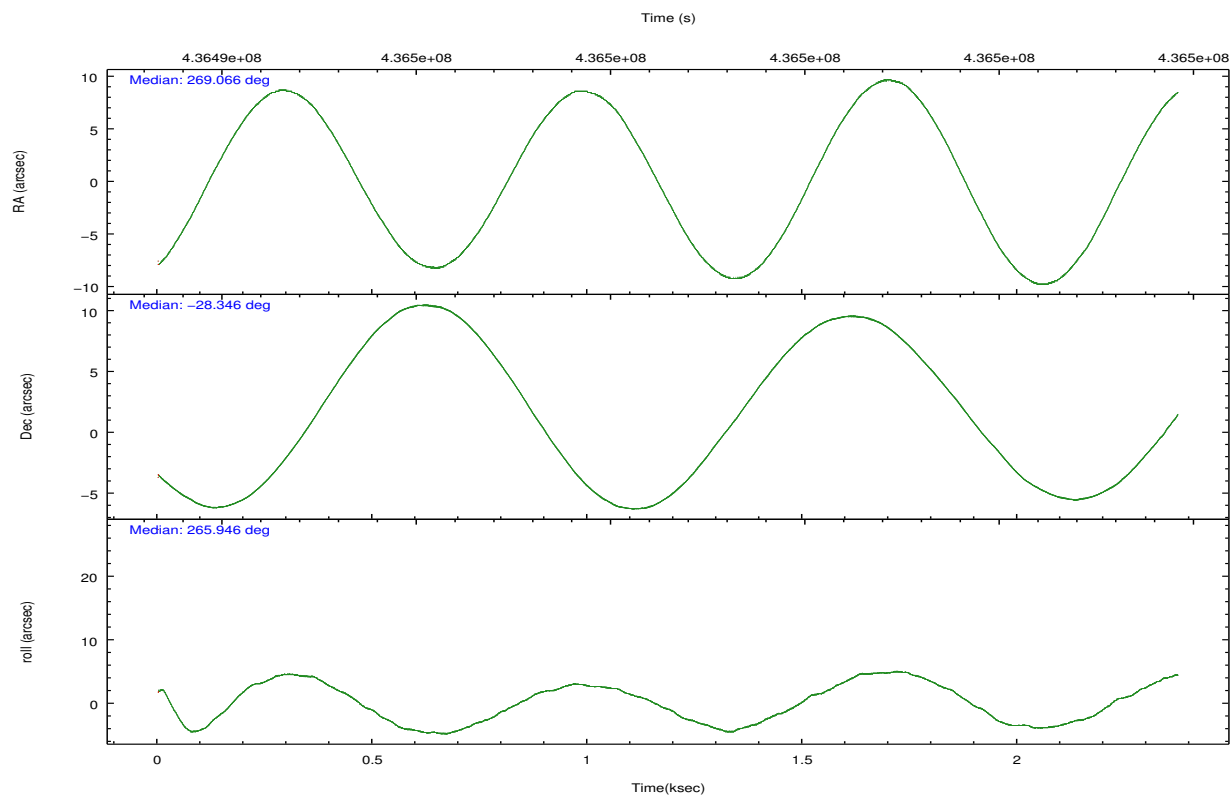
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|----------------|-------|-------|-------|-------|
| grade 0 events | 655 | 793 | 730 | 732 |
| | 5% | 6% | 5% | 5% |
| grade 1 events | 2 | 7 | 9 | 5 |
| | 0% | 0% | 0% | 0% |
| grade 2 events | 403 | 371 | 384 | 325 |
| | 3% | 3% | 3% | 2% |
| grade 3 events | 152 | 157 | 146 | 126 |
| | 1% | 1% | 1% | 1% |
| grade 4 events | 128 | 161 | 156 | 149 |
| | 1% | 1% | 1% | 1% |
| grade 5 events | 534 | 541 | 508 | 639 |
| | 4% | 4% | 3% | 5% |
| grade 6 events | 288 | 336 | 278 | 277 |
| | 2% | 2% | 2% | 2% |
| grade 7 events | 8931 | 9570 | 10539 | 10343 |
| | 80% | 80% | 82% | 82% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-0123 | ACIS-0123 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | VFAINT | VFAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | POINTING | POINTING | On-chip summing requested | N | N |
| [deg] Pointing RA | 269.052186 | 269.0659789151464 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -28.320934 | -28.34587251887964 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 265.739614 | 265.9548502877938 | [s] Primary exposure time | 0.000000 | 3.1 |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.001439871863259334 | | | |
| [mm] SIM translation stage pos | -233.592463 | -233.5874344608287 | | | |
| [mm] SIM translation stage offset | 0 | -0.005018542100998502 | | | |
| [s] Observation start time (MET) | 436494659.184000 | 436494282.843 | | | |
| Observation start date | 2011-11-01T00:29:53 | 2011-11-01T00:24:42 | | | |
| [s] Observation end time (MET) | 436496839.184000 | 436496972.95564 | | | |
| Observation end date | 2011-11-01T01:06:13 | 2011-11-01T01:09:32 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



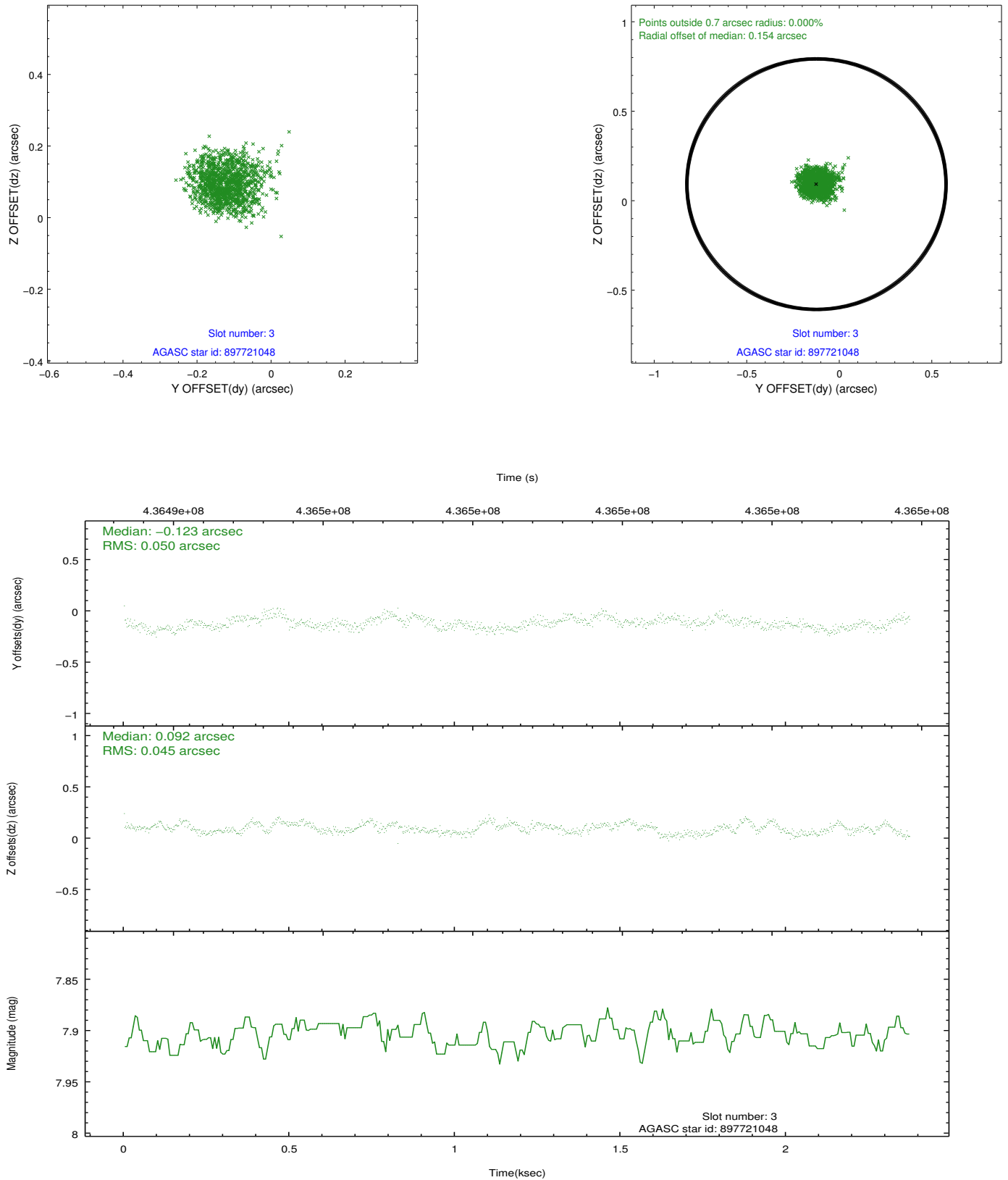


Slot Statistics

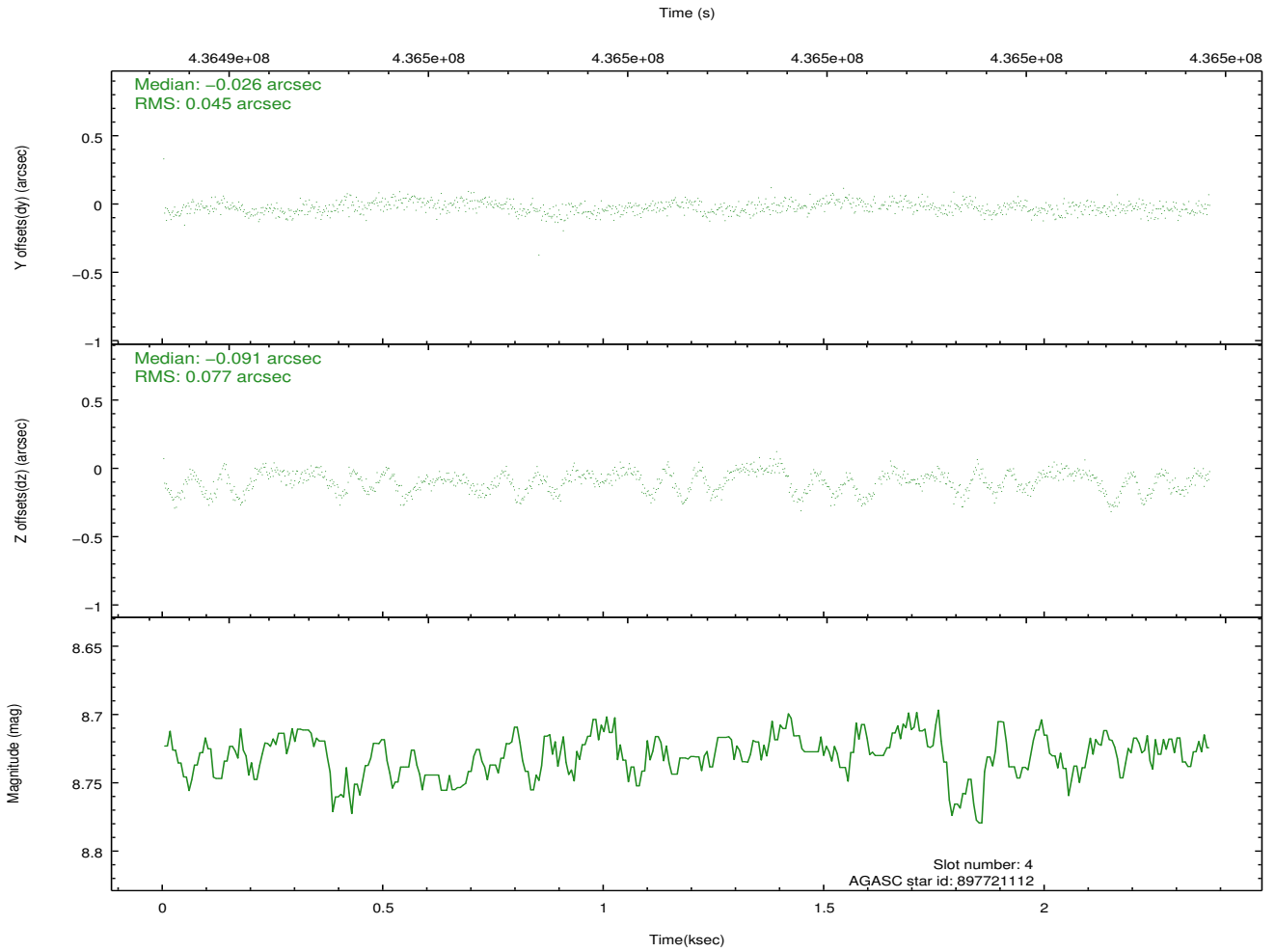
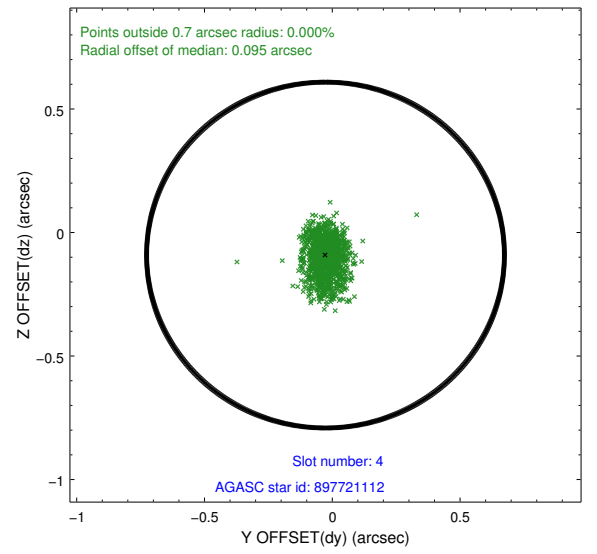
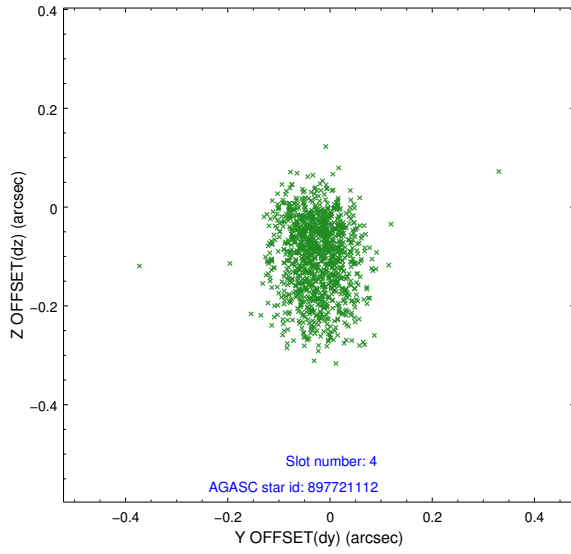
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.01 | 579 | 0.023 | -0.024 | 0.009 | 0.016 | 0.000000 | 0.000000 | 931.30 | -837.88 |
| 1 | FID | ACIS-I-4 | 6.95 | 579 | 0.194 | 0.029 | 0.007 | 0.015 | 0.000000 | 0.000000 | 2153.03 | 1060.61 |
| 2 | FID | ACIS-I-5 | 7.00 | 579 | -0.316 | 0.066 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1813.52 | 1061.61 |
| 3 | GUIDE | 897721048 | 7.90 | 1158 | -0.123 | 0.092 | 0.072 | 0.111 | 268.989561 | -28.030814 | -1027.36 | -276.02 |
| 4 | GUIDE | 897721112 | 8.73 | 1154 | -0.026 | -0.091 | 0.093 | 0.158 | 268.338159 | -28.057278 | -772.54 | -2332.51 |
| 5 | GUIDE | 898236888 | 8.71 | 1158 | -0.031 | 0.136 | 0.074 | 0.119 | 269.539947 | -28.141730 | -756.78 | 1494.49 |
| 6 | GUIDE | 898238128 | 7.72 | 1157 | 0.202 | -0.173 | 0.063 | 0.108 | 268.450740 | -28.688500 | 1464.72 | -1794.10 |
| 7 | GUIDE | 898258992 | 7.98 | 1154 | -0.023 | 0.040 | 0.069 | 0.102 | 269.435214 | -28.570389 | 808.00 | 1273.22 |

2.4 Star Slots

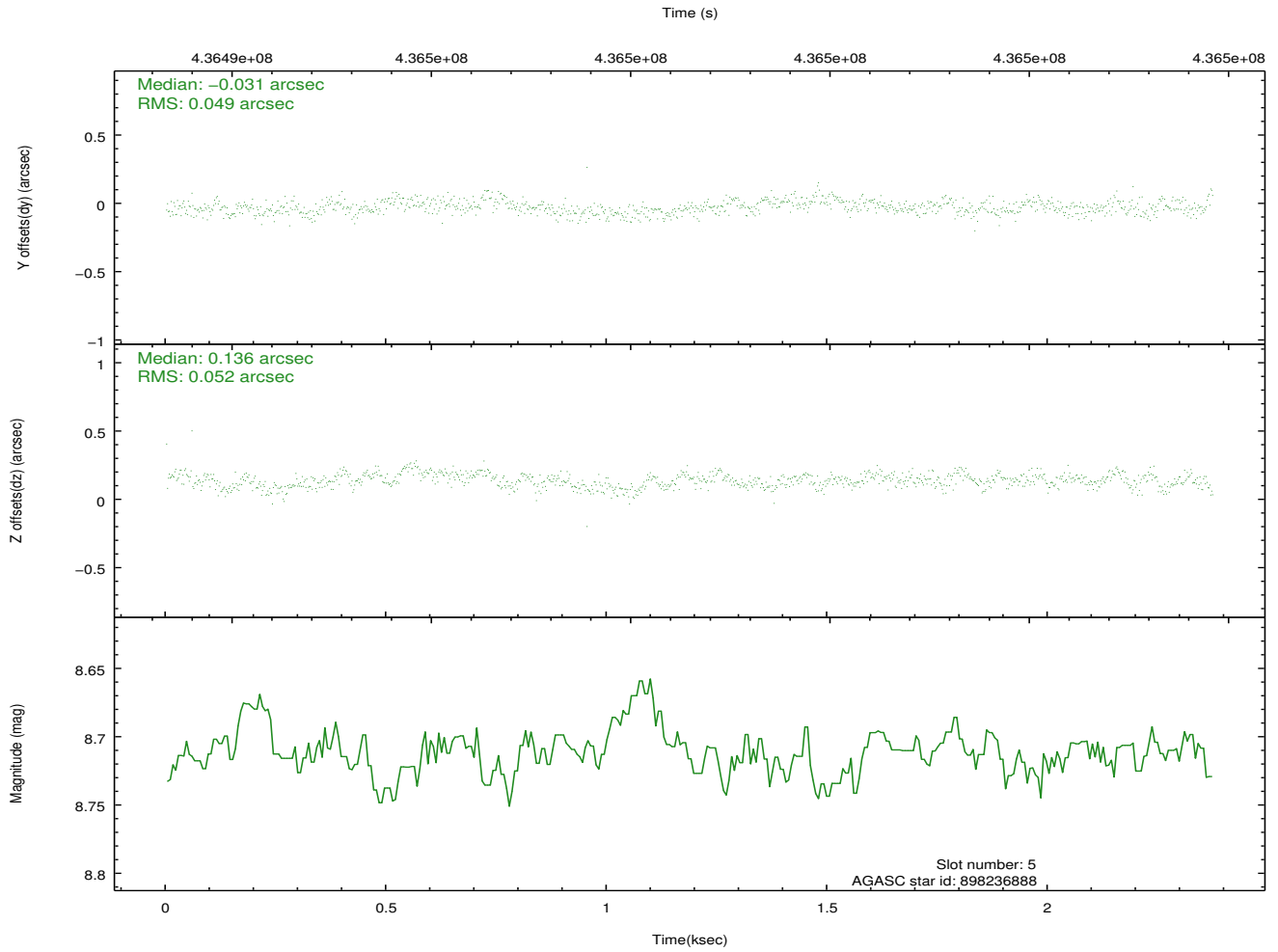
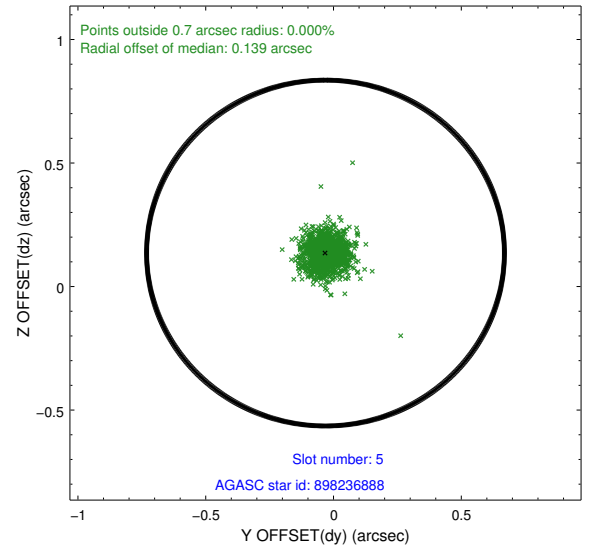
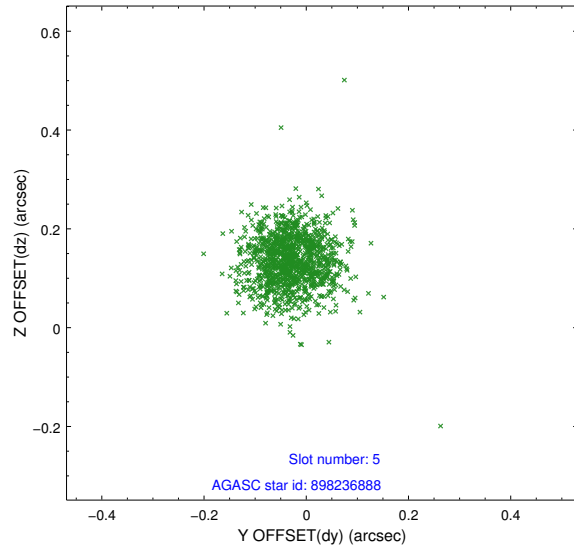
2.4.1 Slot 3



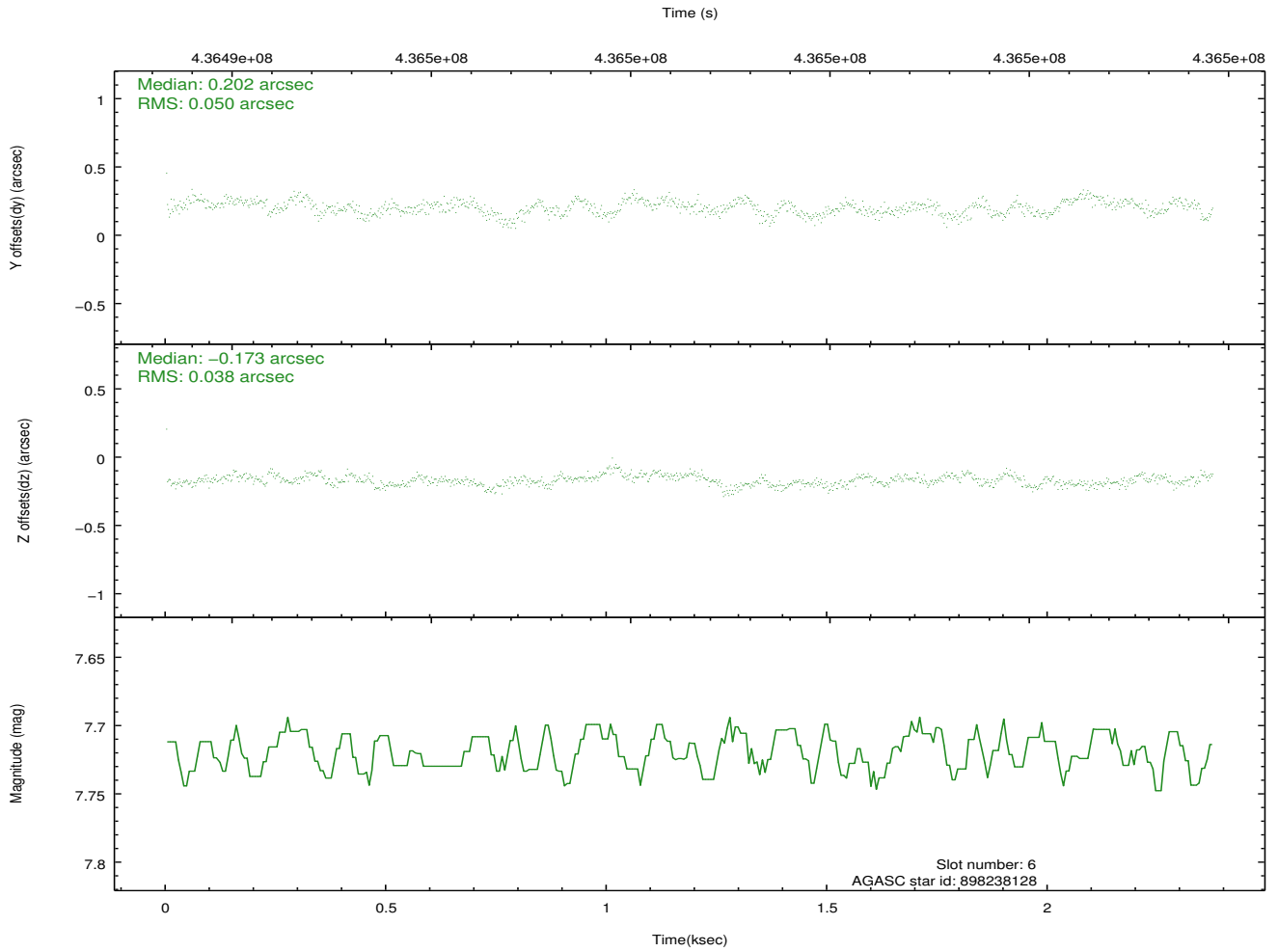
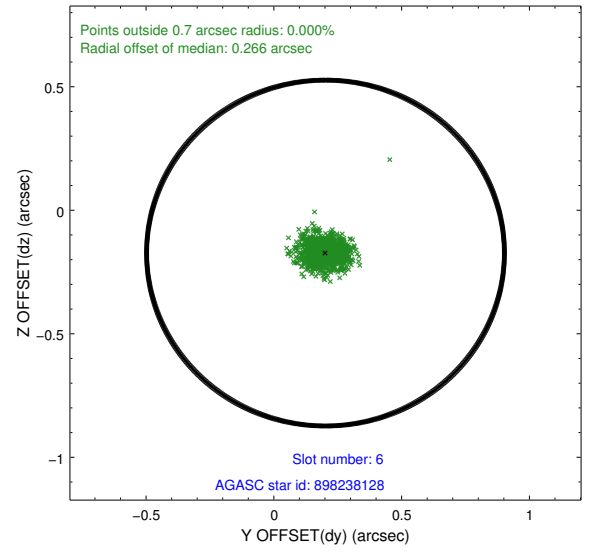
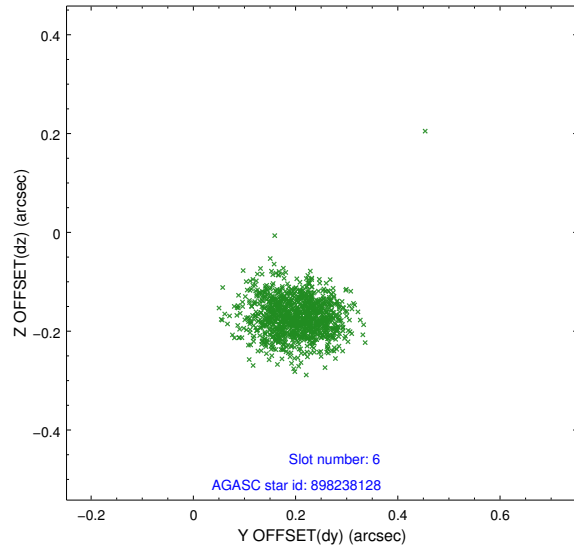
2.4.2 Slot 4



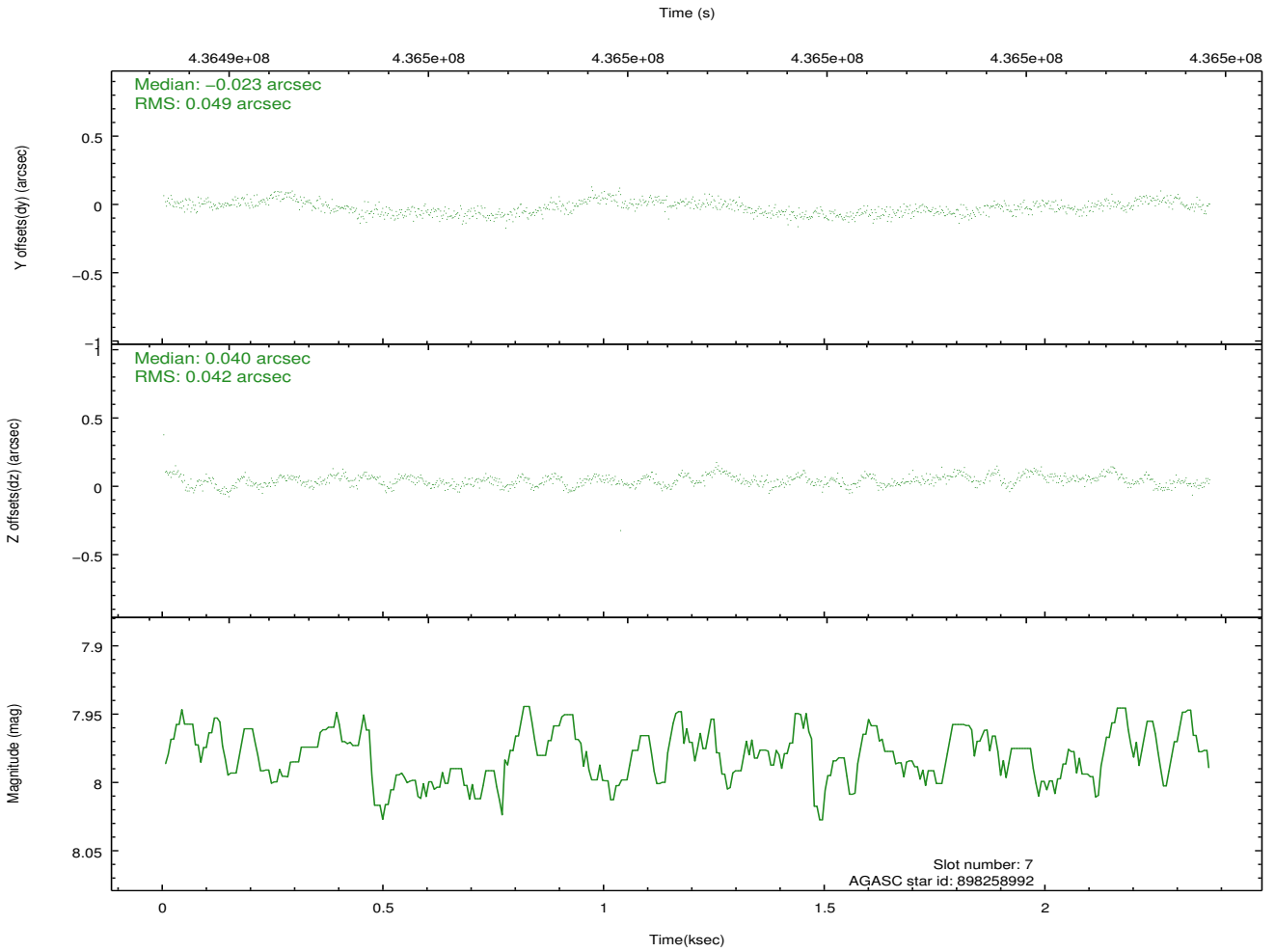
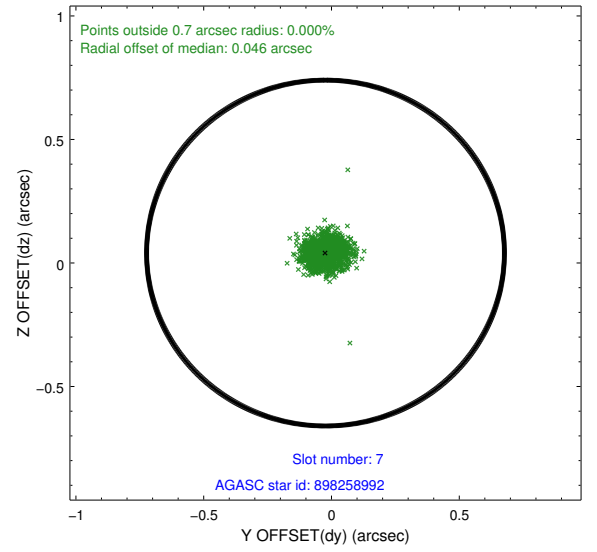
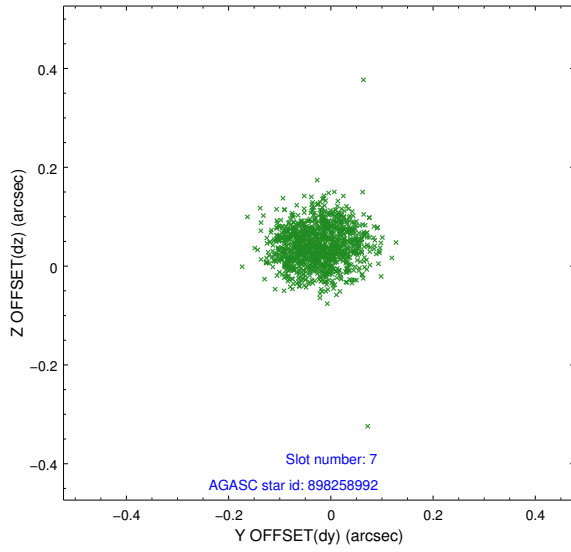
2.4.3 Slot 5



2.4.4 Slot 6

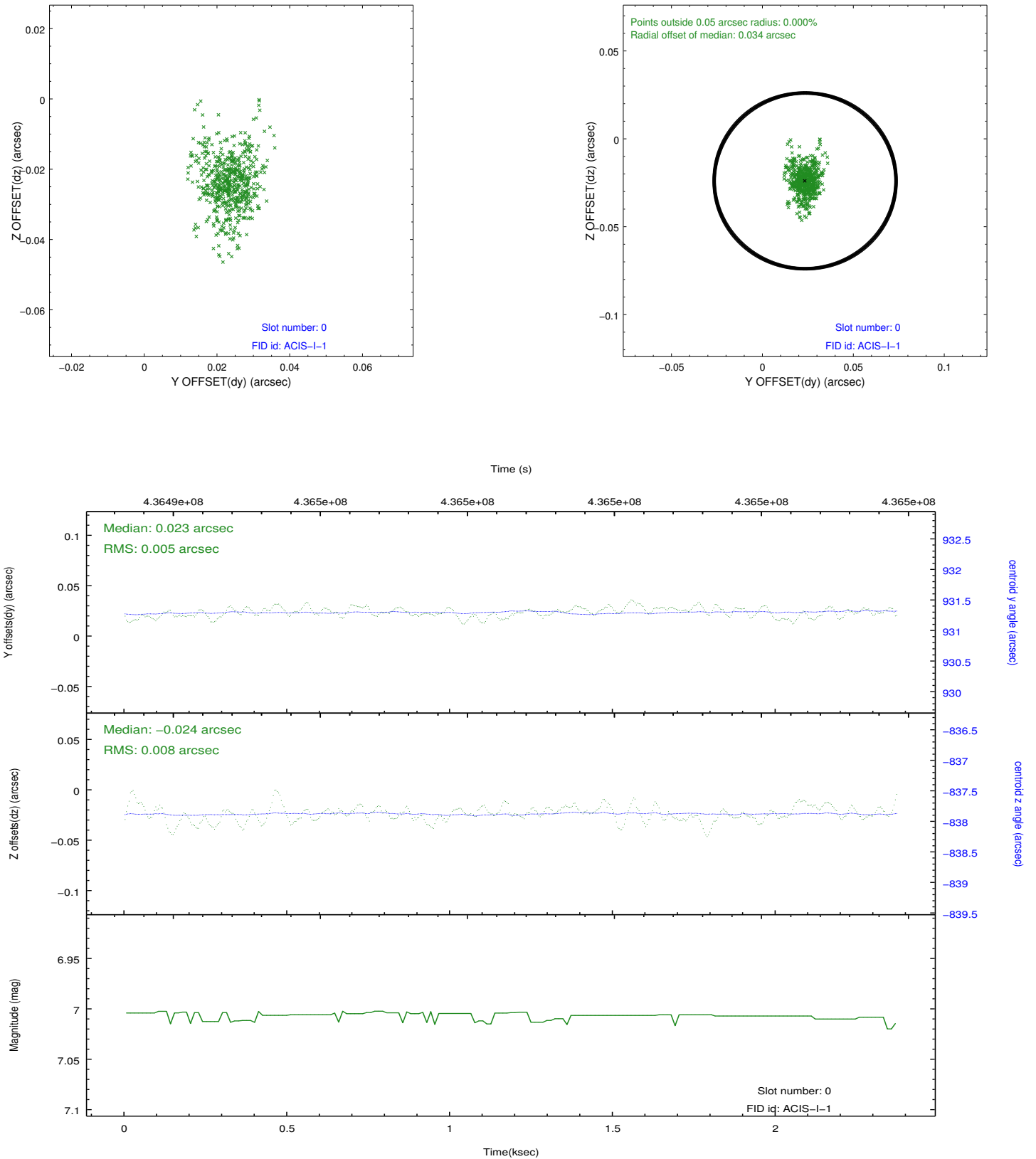


2.4.5 Slot 7

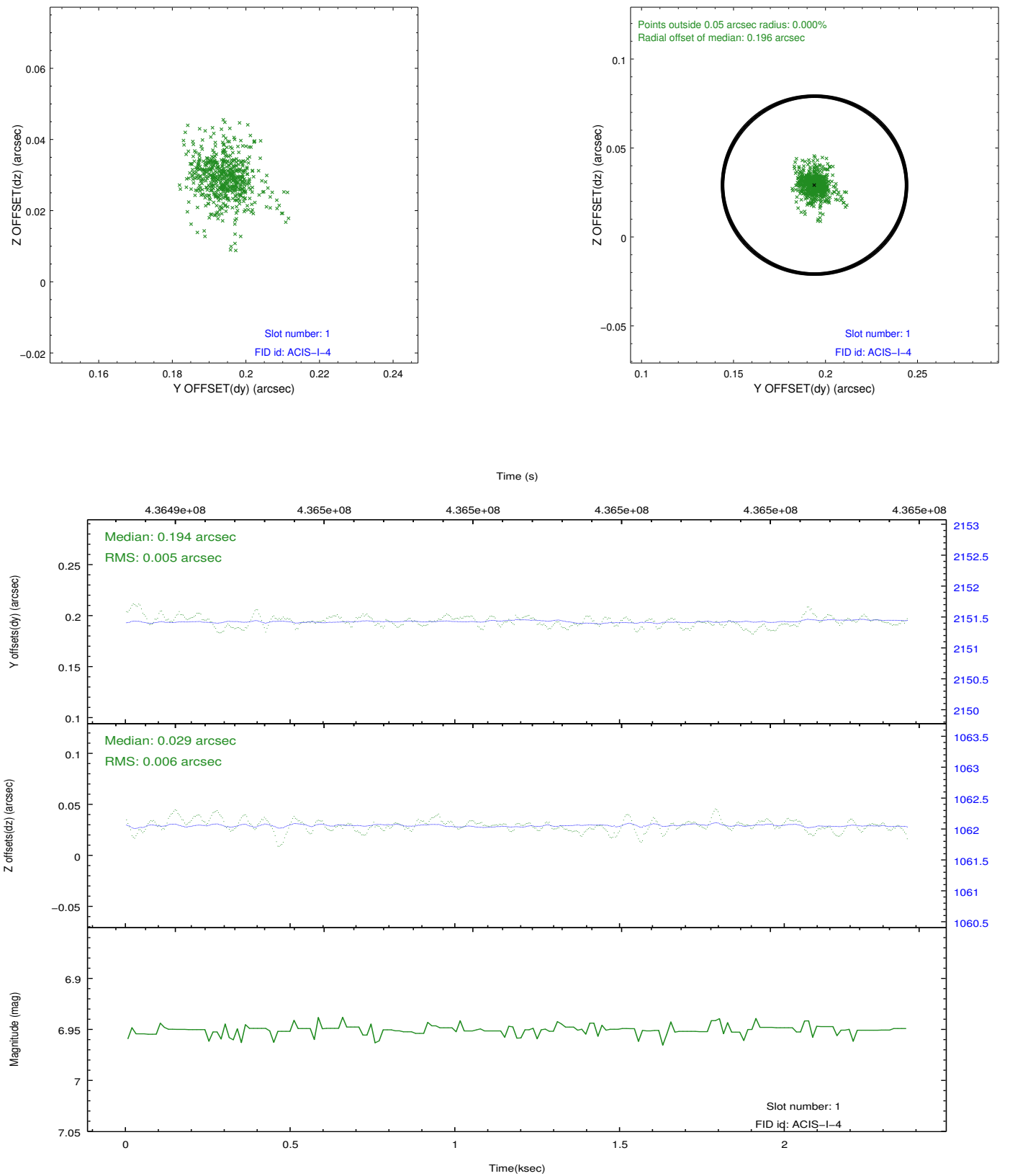


2.5 FID Slots

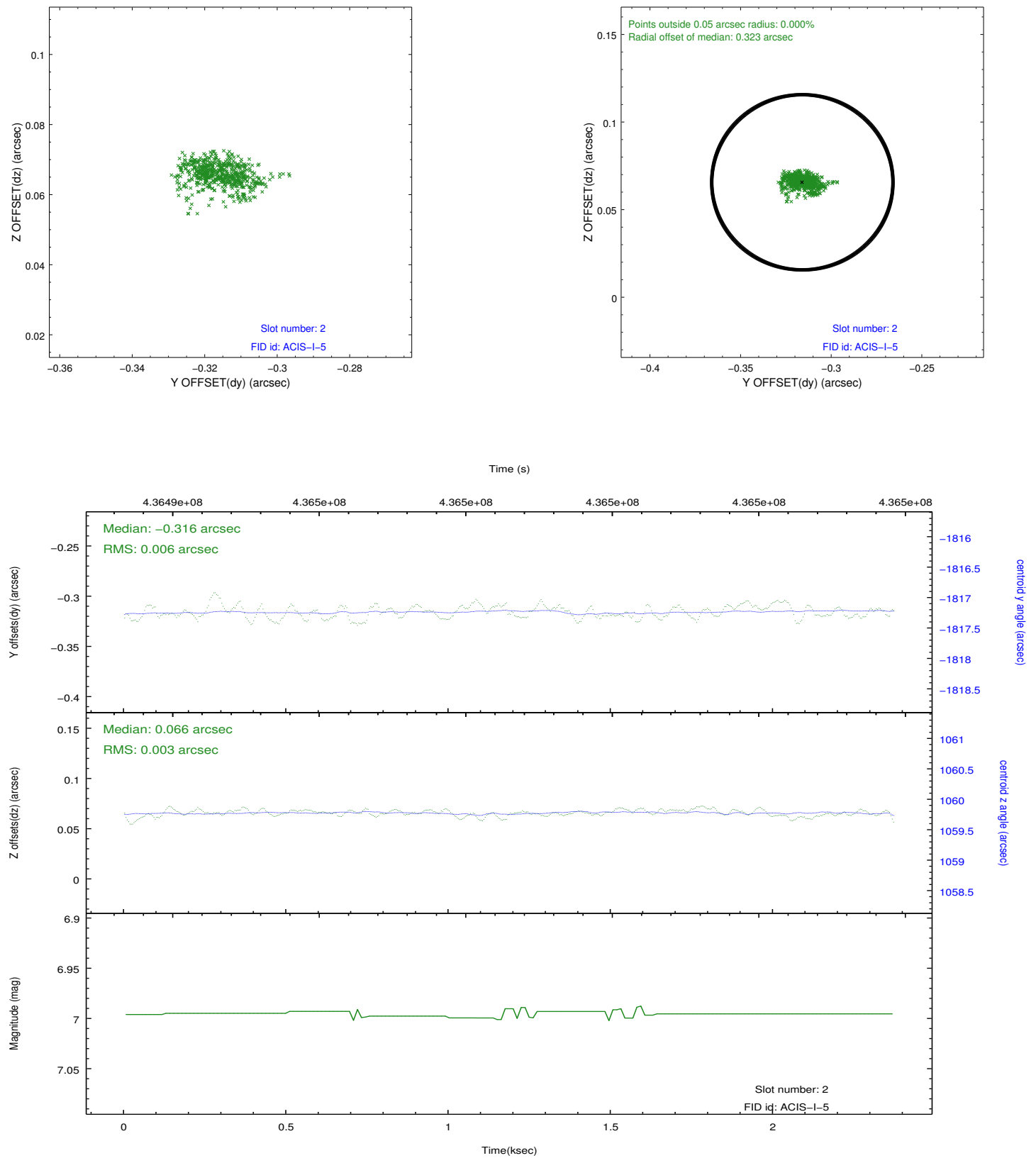
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.03.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.9716000151634 |

A.2 Comments

Joint Proposal: NOAO