

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13576 - L2 Version 2
Chandra X-Ray Center

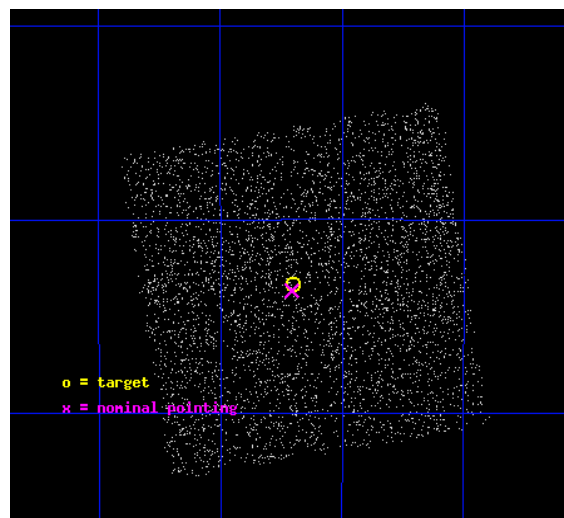
L2 Processing Date : Feb 25 2012

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1 Front

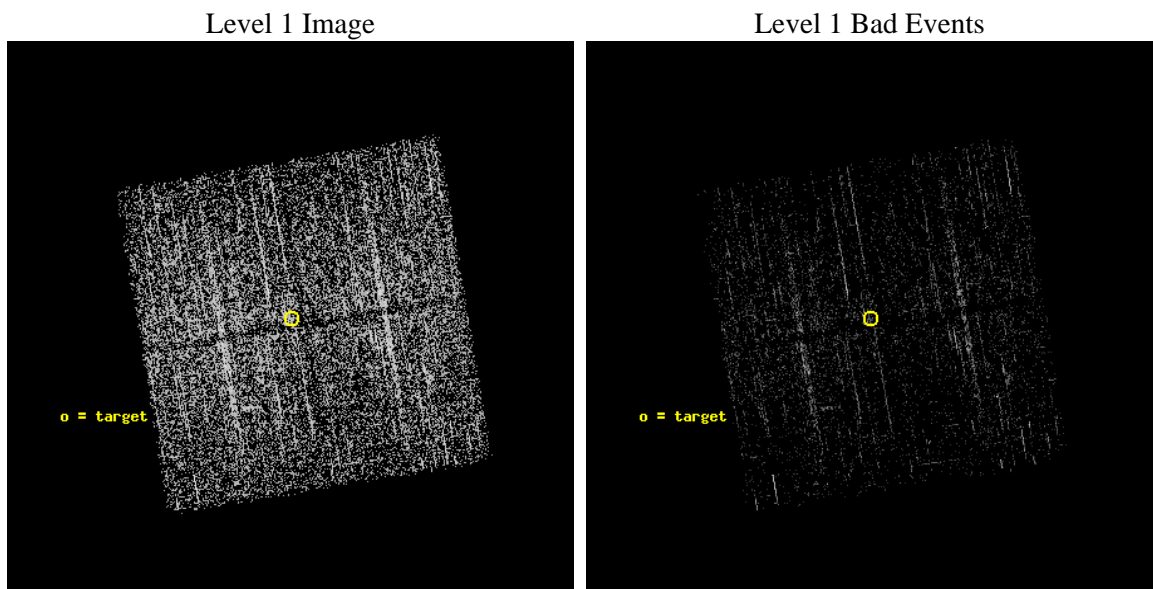
| | | |
|----------|--|--|
| seq_num | 401352 | Sequence number |
| obs_id | 13576 | Observation id |
| title | Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge | Proposal title |
| observer | dr P Jonker | Principal investigator |
| object | GBS13-5 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 265.799833 | Observer's specified target RA [deg] |
| dec_targ | -31.888967 | Observer's specified target Dec [deg] |
| ra_nom | 265.801690343 | Nominal RA [deg] |
| dec_nom | -31.894646283004 | Nominal Dec [deg] |
| roll_nom | 260.57779221738 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 1973.6906392574 | Sum of GTIs [s] |
| livetime | 1947.9029180456 | Livetime [s] |
| ontime0 | 1973.5675192475 | Sum of GTIs [s] |
| ontime1 | 1970.4675988555 | Sum of GTIs [s] |
| ontime2 | 1973.6495992541 | Sum of GTIs [s] |
| ontime3 | 1973.6906392574 | Sum of GTIs [s] |
| l2events | 4852 | Number of level 2 events |



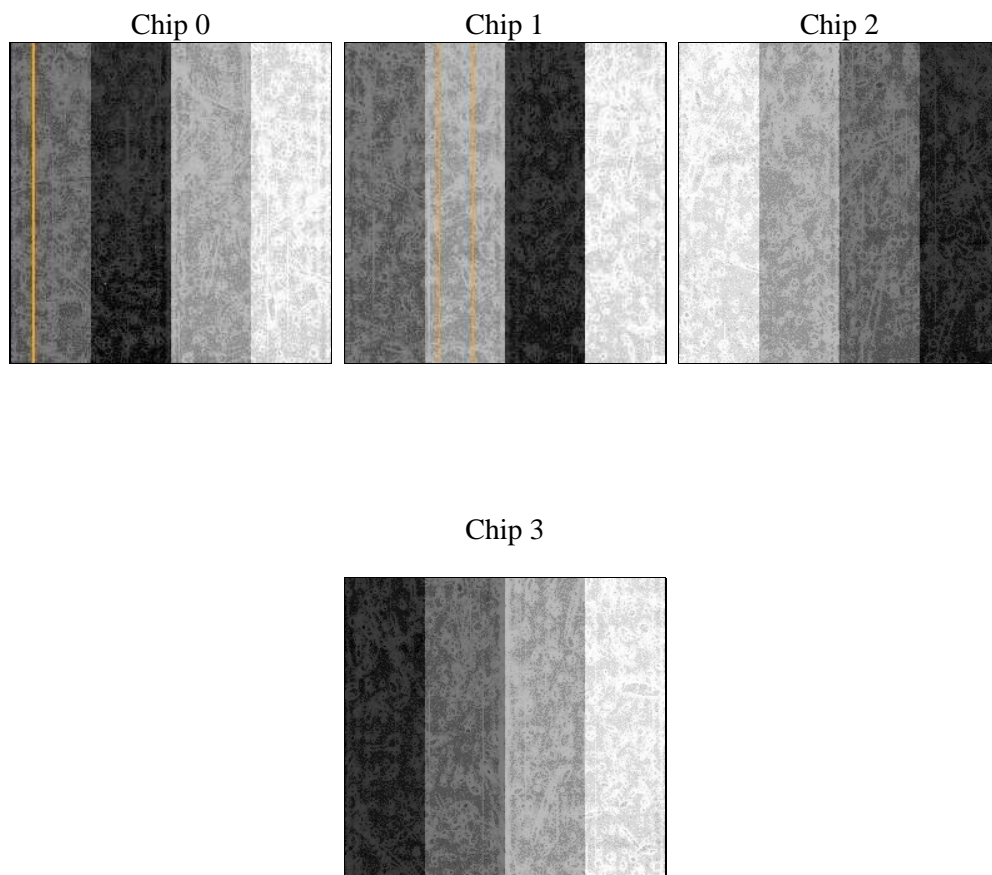
2 OBI

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 | 1973.6906392574 | Sum of GTIs [s] |
| caldsver | 4.4.8 | | ontime0 | 1973.5675192475 | Sum of GTIs [s] |
| date | 2012-02-26T01:22:04 | Date and time of file creation | ontime1 | 1970.4675988555 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 1973.6495992541 | Sum of GTIs [s] |
| | | | ontime3 | 1973.6906392574 | Sum of GTIs [s] |
| | | | l1events | 44643 | Number of level 1 events |

2.1.4 Events

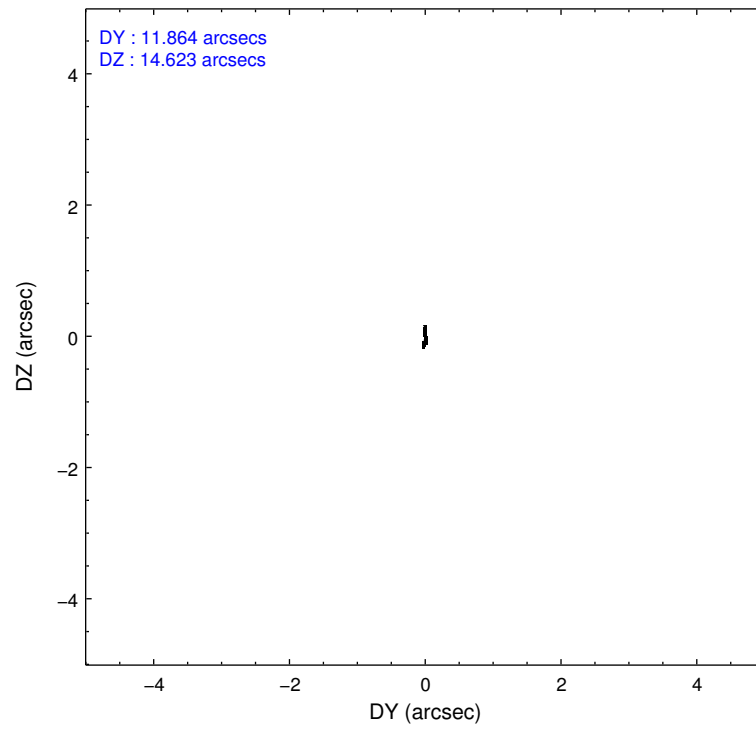
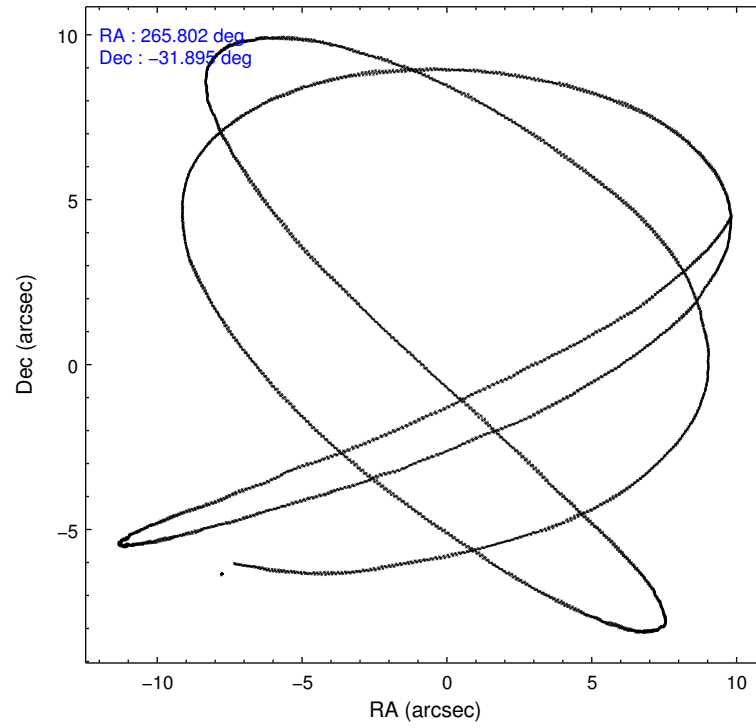
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|-----------------|-------|-------|-------|-------|
| level 1 events | 10244 | 11163 | 11268 | 11968 |
| rejected events | 8871 | 9625 | 9905 | 10576 |
| rejected % | 86% | 86% | 87% | 88% |

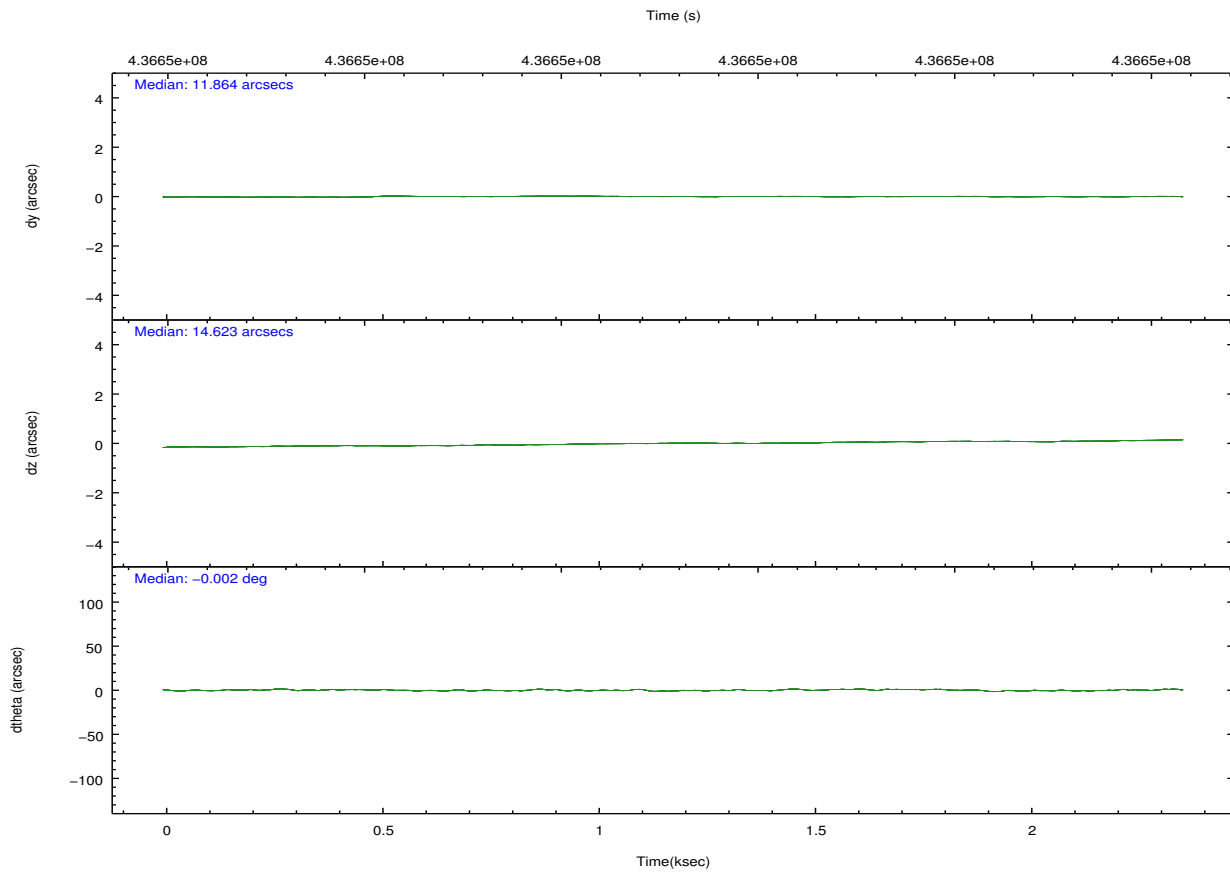
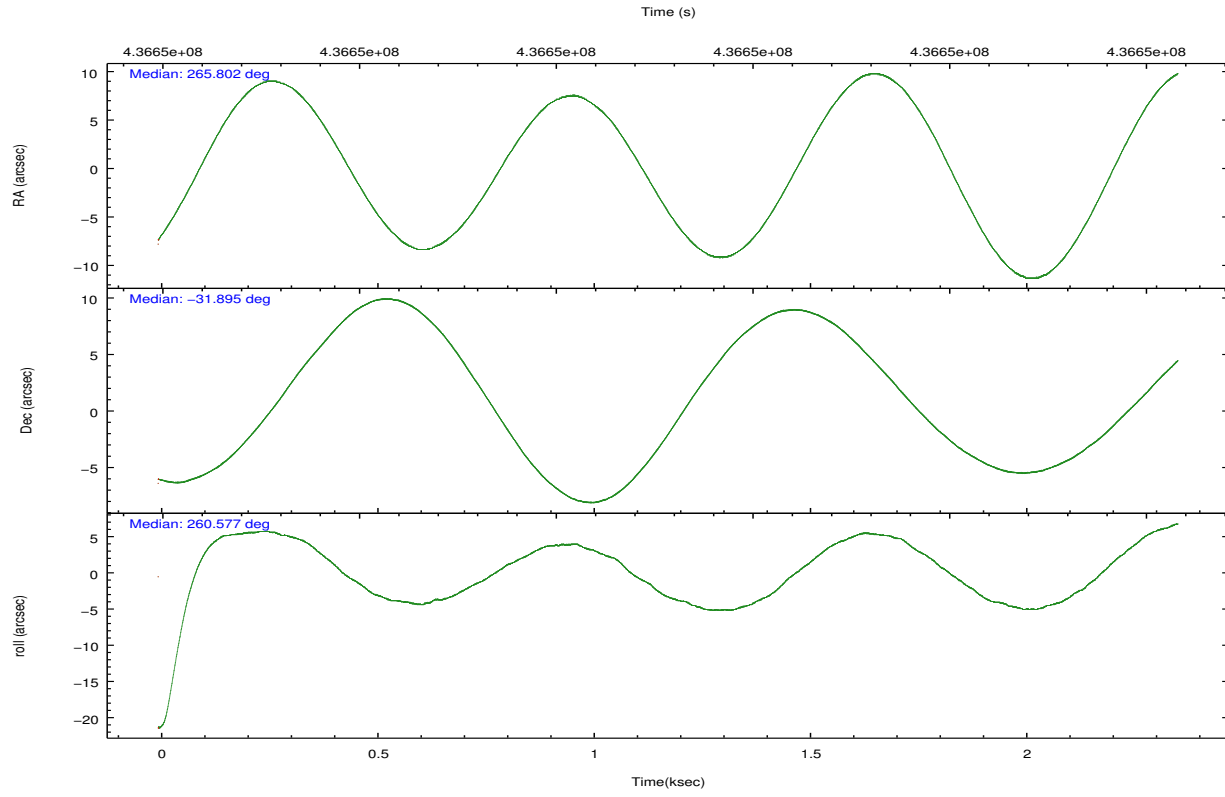
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|----------------|-------|-------|-------|-------|
| grade 0 events | 530 | 578 | 537 | 501 |
| | 5% | 5% | 4% | 4% |
| grade 1 events | 10 | 6 | 8 | 10 |
| | 0% | 0% | 0% | 0% |
| grade 2 events | 282 | 385 | 311 | 332 |
| | 2% | 3% | 2% | 2% |
| grade 3 events | 132 | 154 | 130 | 144 |
| | 1% | 1% | 1% | 1% |
| grade 4 events | 127 | 140 | 158 | 147 |
| | 1% | 1% | 1% | 1% |
| grade 5 events | 520 | 581 | 546 | 627 |
| | 5% | 5% | 4% | 5% |
| grade 6 events | 305 | 286 | 234 | 271 |
| | 2% | 2% | 2% | 2% |
| grade 7 events | 8338 | 9033 | 9344 | 9936 |
| | 81% | 80% | 82% | 83% |

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 | 265.790126 | 265.8016903429985 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -31.868806 | -31.89464628300355 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 260.363120 | 260.5777922173831 | [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) | 436651786.184000 | 436651410.73877 | | | |
| Observation start date | 2011-11-02T20:08:40 | 2011-11-02T20:03:30 | | | |
| [s] Observation end time (MET) | 436653966.184000 | 436654183.36392 | | | |
| Observation end date | 2011-11-02T20:45:00 | 2011-11-02T20:49:43 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



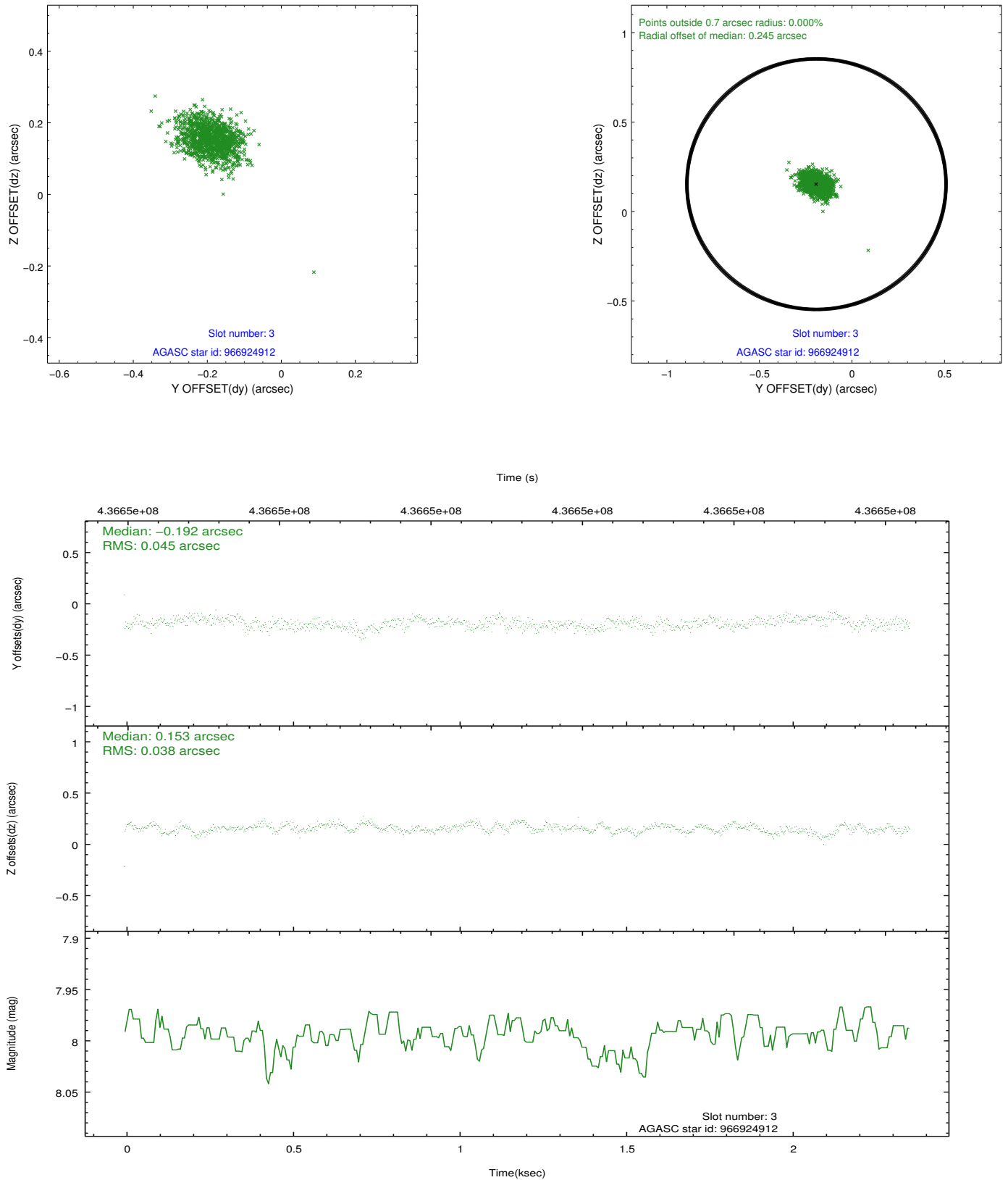


Slot Statistics

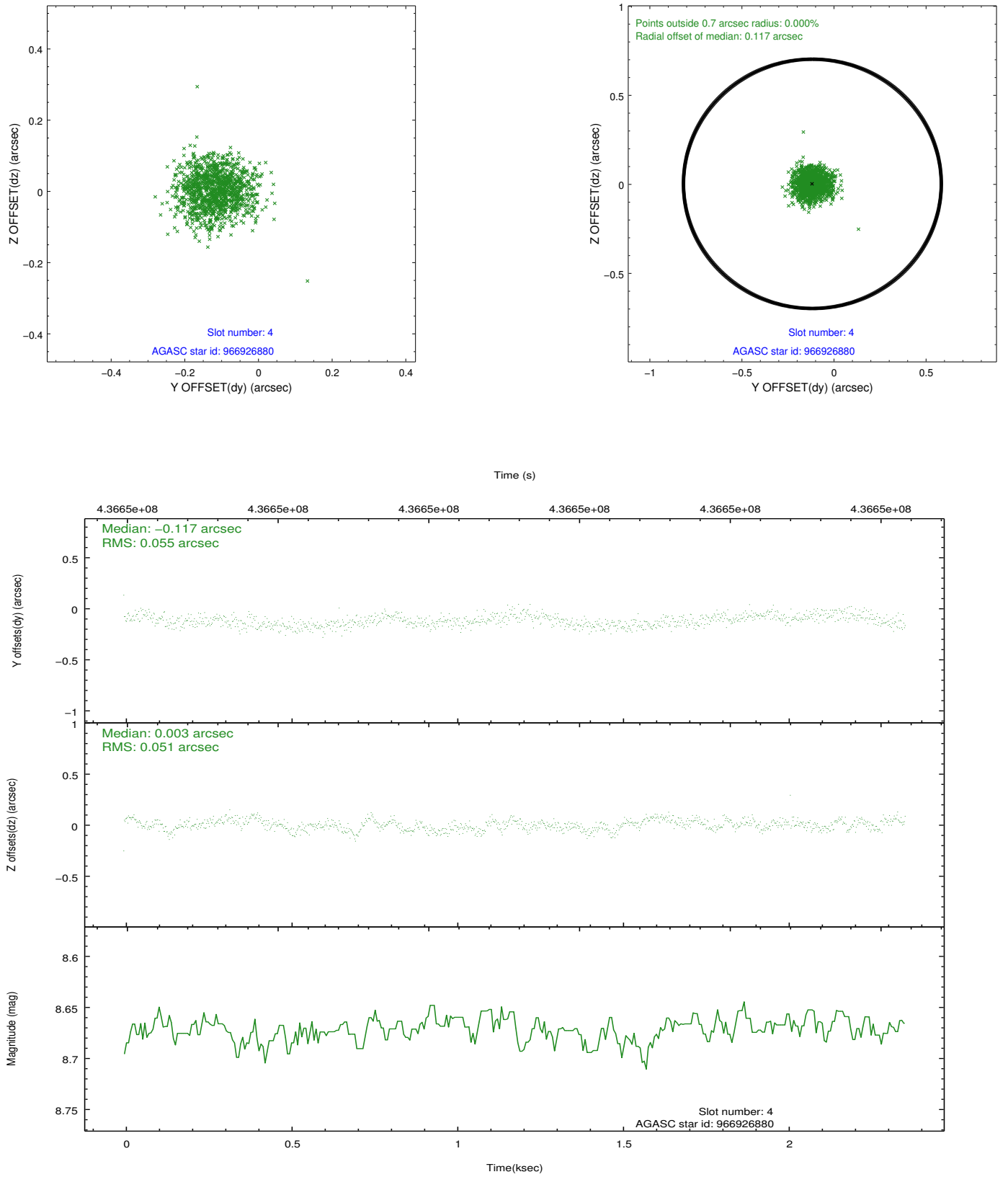
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-I-2 | 6.95 | 576 | -0.093 | -0.106 | 0.008 | 0.016 | 0.000000 | 0.000000 | -766.58 | -844.67 |
| 1 | FID | ACIS-I-4 | 6.97 | 576 | 0.221 | 0.085 | 0.006 | 0.012 | 0.000000 | 0.000000 | 2146.53 | 1060.31 |
| 2 | FID | ACIS-I-5 | 7.03 | 575 | -0.229 | 0.090 | 0.009 | 0.015 | 0.000000 | 0.000000 | -1817.01 | 1061.29 |
| 3 | GUIDE | 966924912 | 7.99 | 1151 | -0.192 | 0.153 | 0.060 | 0.101 | 266.020014 | -31.275150 | -2224.94 | 339.75 |
| 4 | GUIDE | 966926880 | 8.67 | 1150 | -0.117 | 0.003 | 0.079 | 0.122 | 265.970408 | -31.411350 | -1717.99 | 270.64 |
| 5 | GUIDE | 967445304 | 8.47 | 1150 | 0.189 | -0.002 | 0.074 | 0.129 | 265.658967 | -32.404354 | 1966.37 | -70.07 |
| 6 | GUIDE | 967312288 | 8.69 | 1149 | 0.211 | -0.179 | 0.100 | 0.162 | 265.009429 | -32.160255 | 1443.12 | -2168.96 |
| 7 | GUIDE | 967448688 | 8.09 | 1149 | -0.088 | 0.028 | 0.083 | 0.136 | 265.570021 | -32.523235 | 2436.32 | -266.12 |

2.4 Star Slots

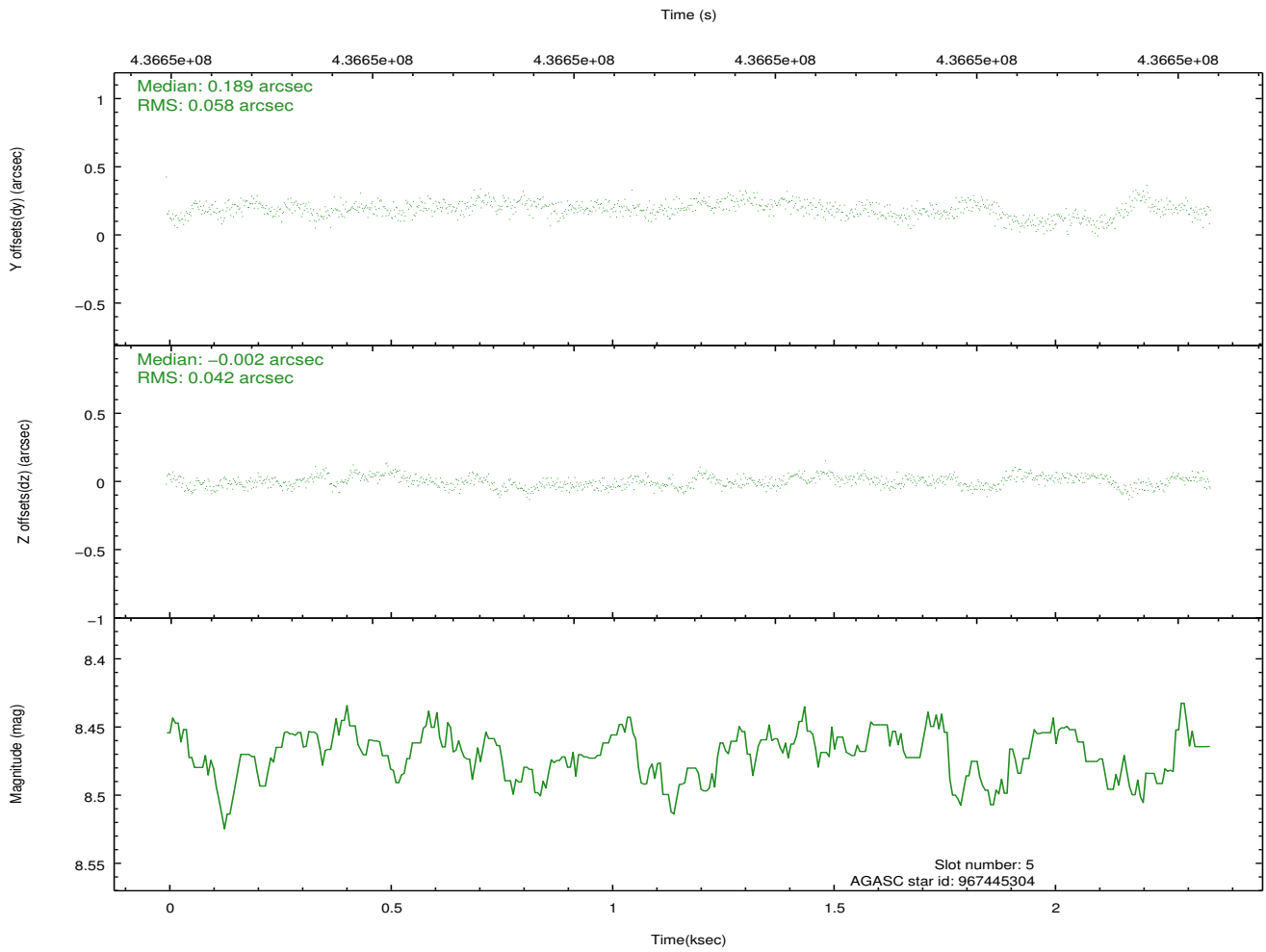
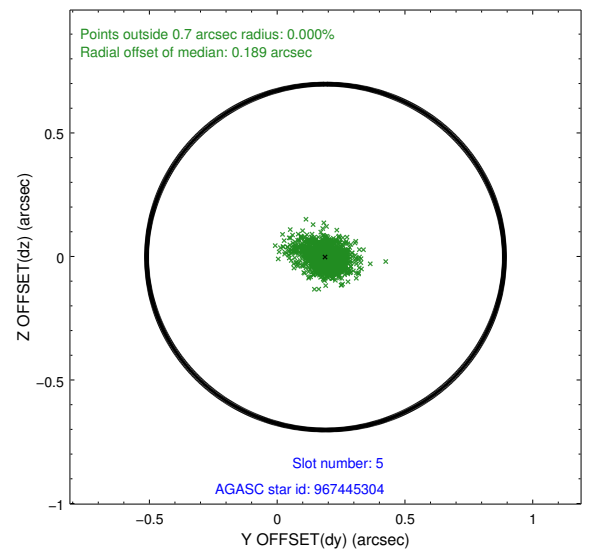
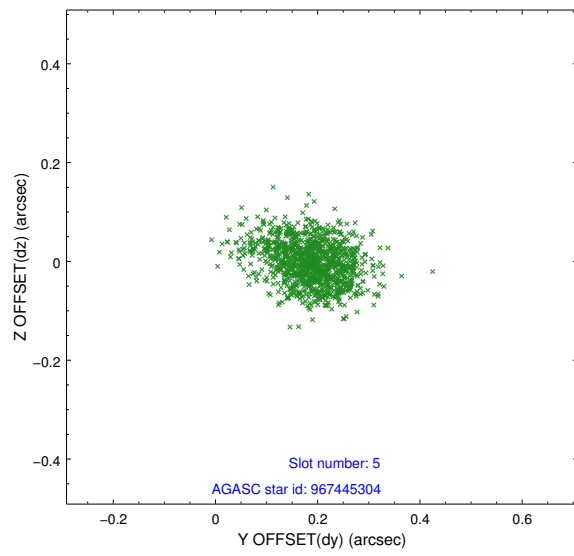
2.4.1 Slot 3



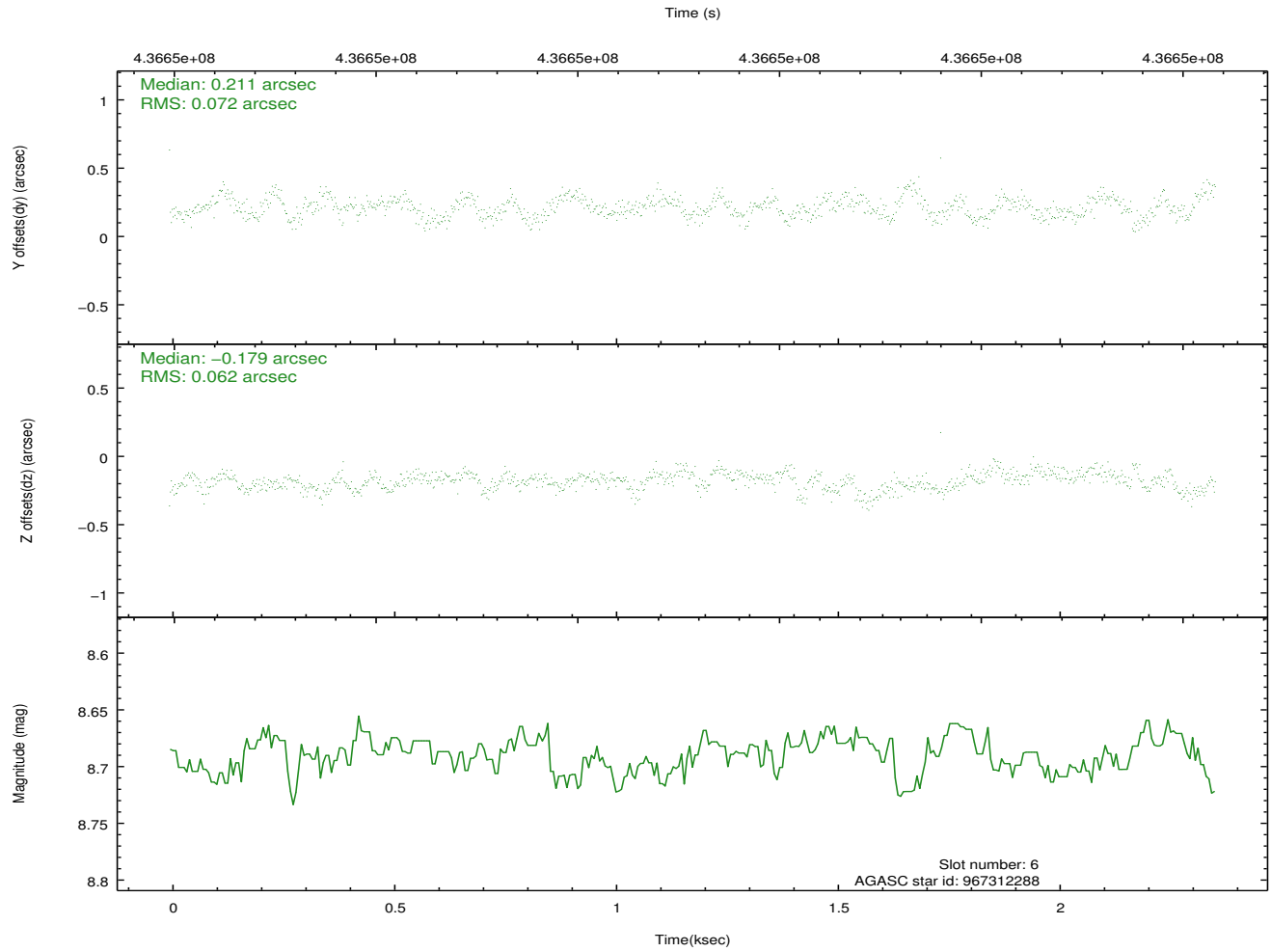
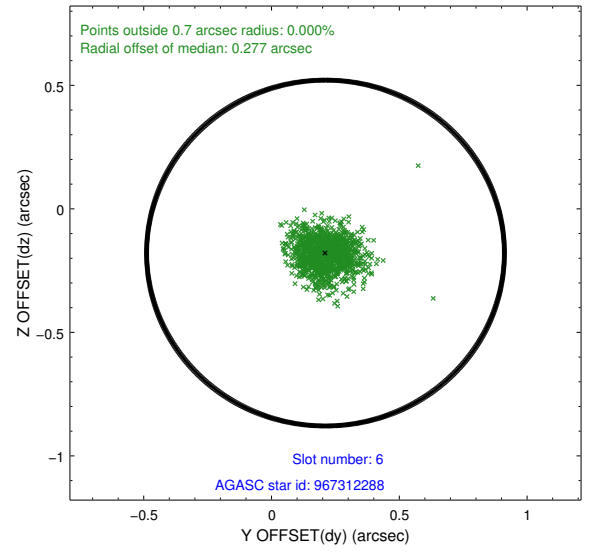
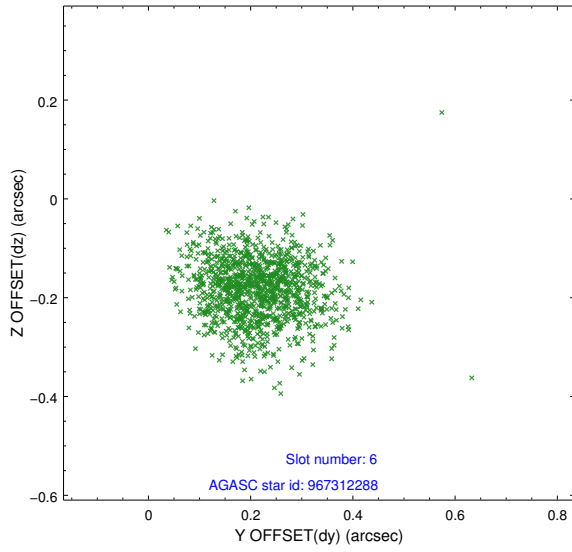
2.4.2 Slot 4



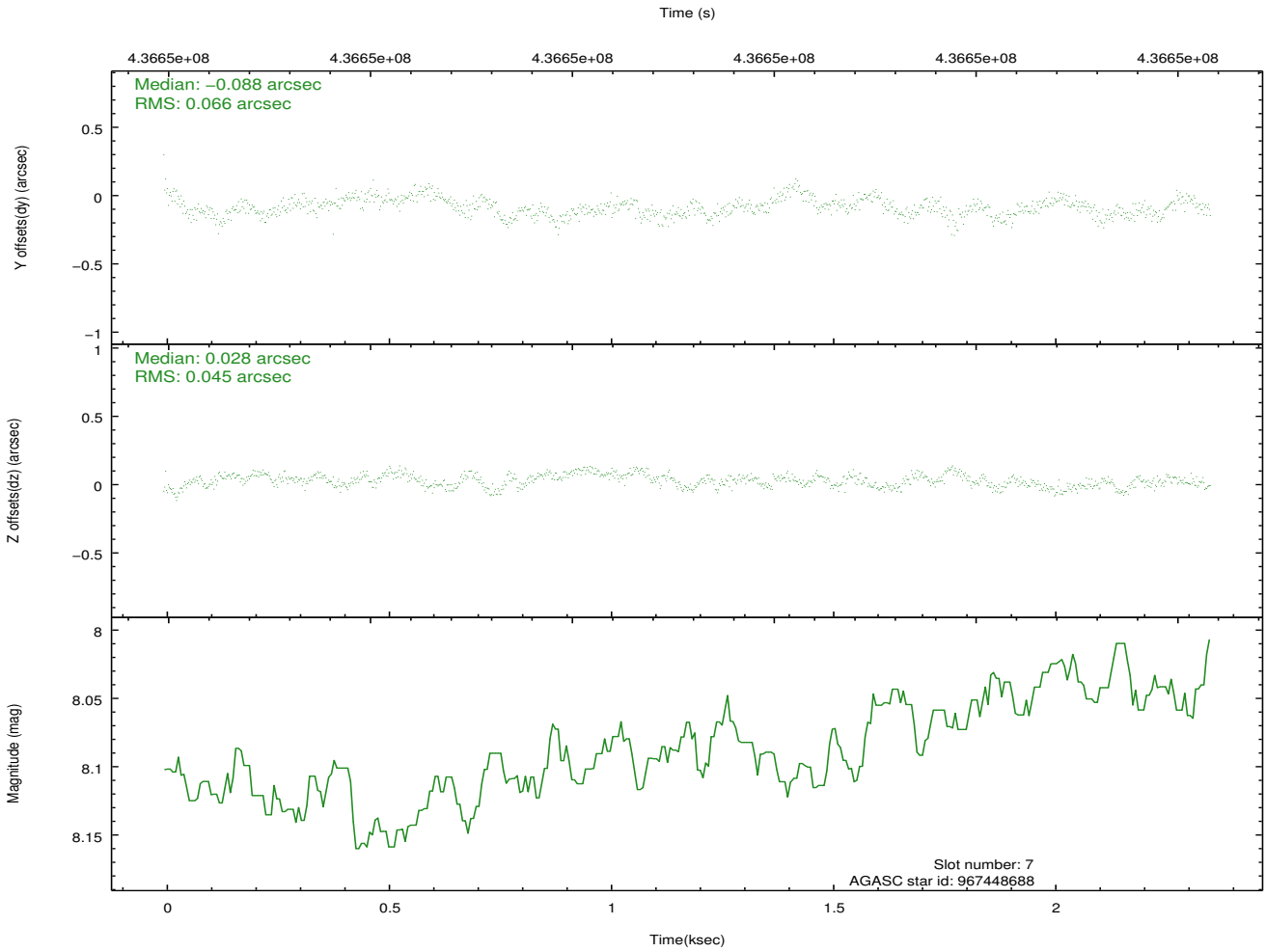
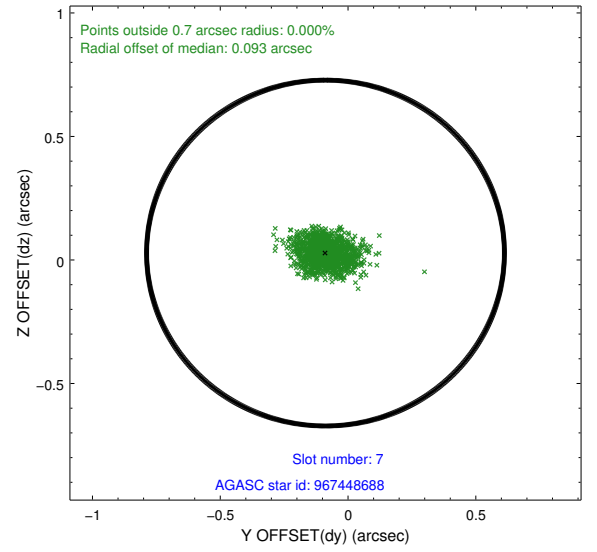
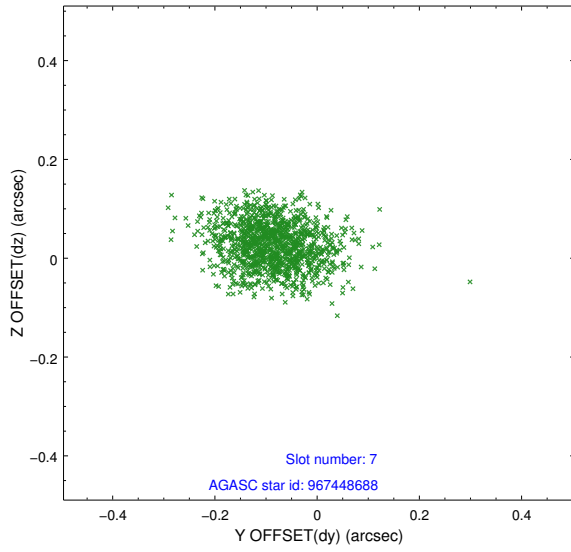
2.4.3 Slot 5



2.4.4 Slot 6

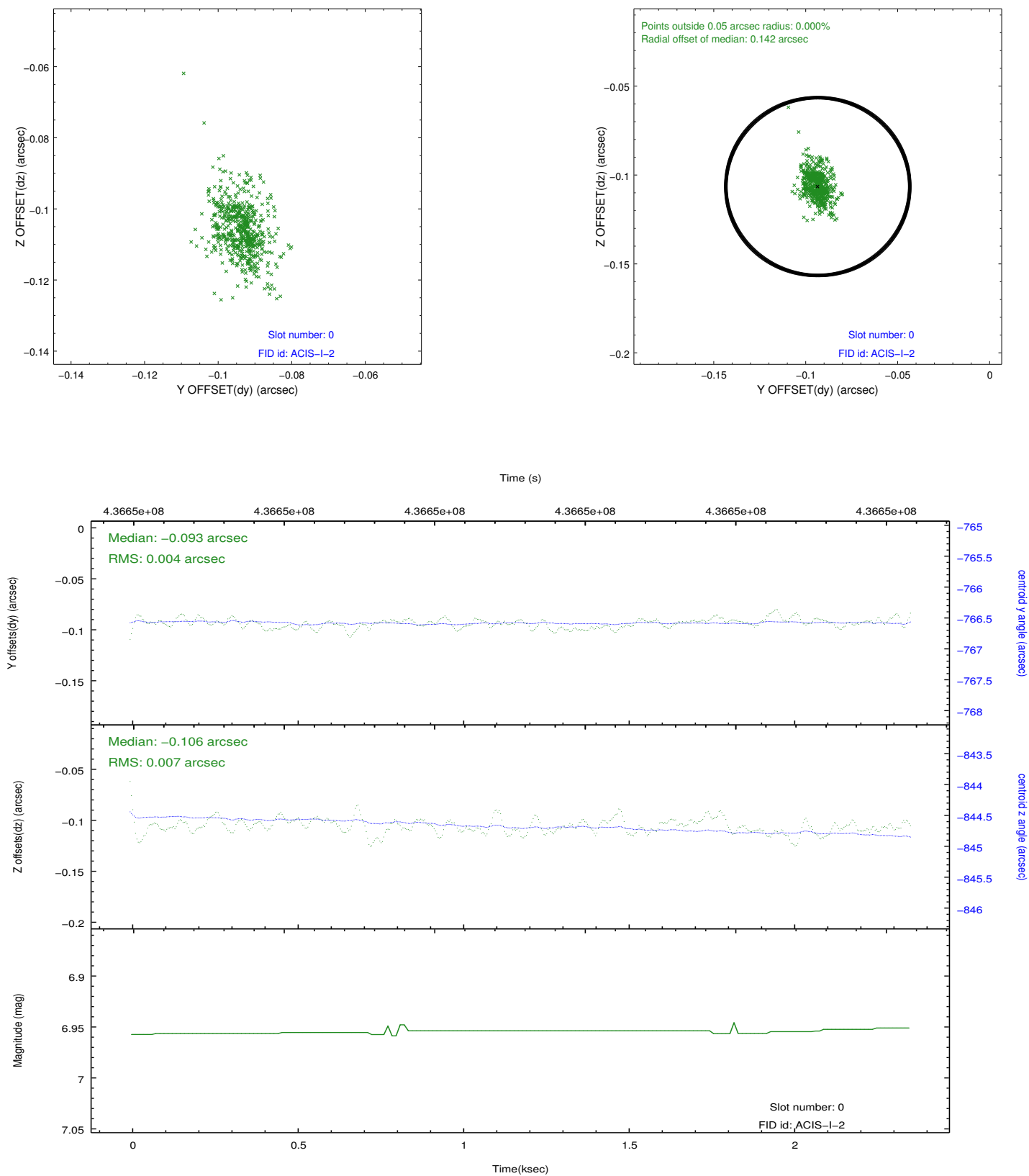


2.4.5 Slot 7

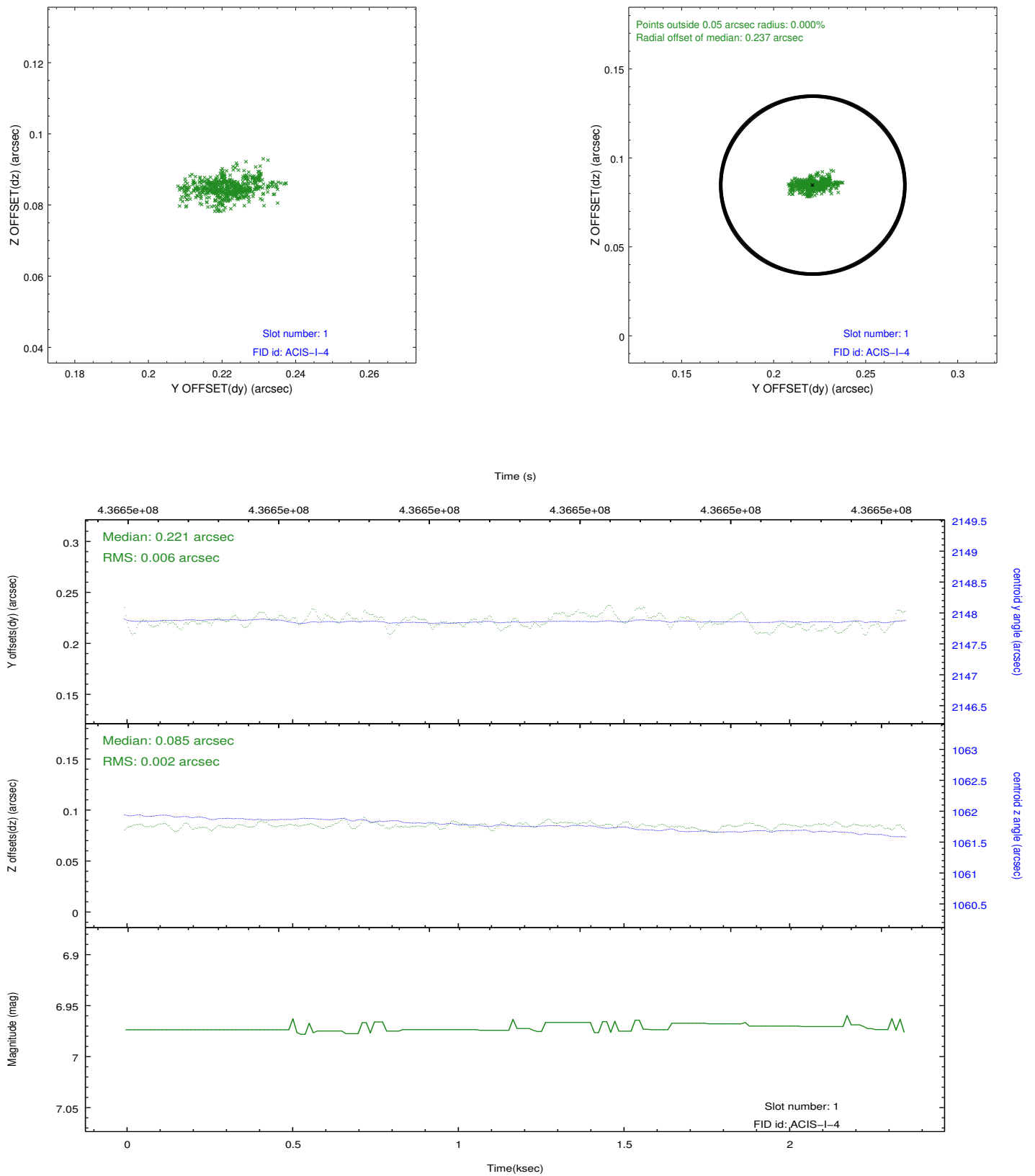


2.5 FID Slots

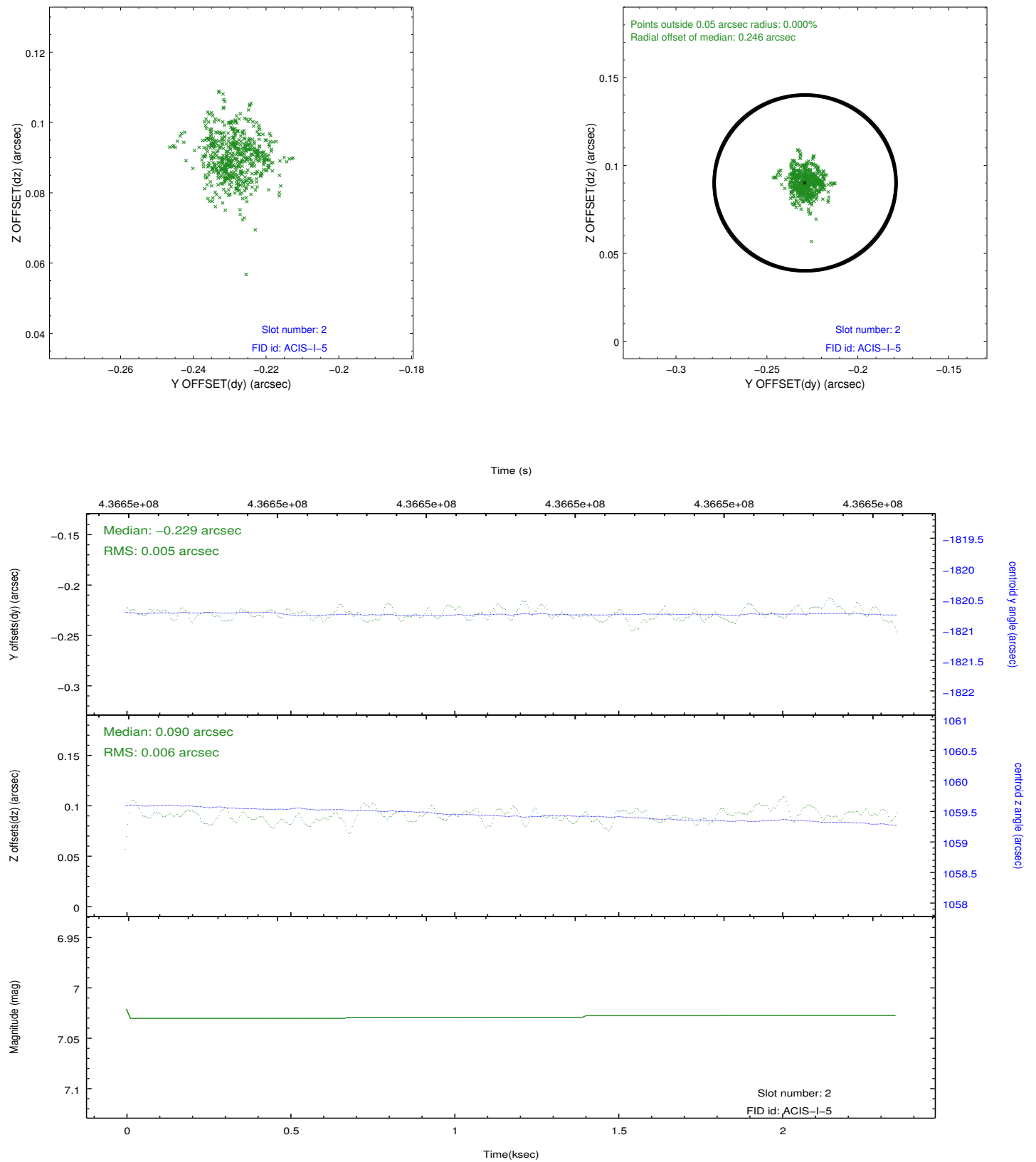
2.5.1 Slot 0



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) | 2012.02.28 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 1.9736906400323 |

A.2 Comments

Joint proposal: NOAO