

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9566 - L2 Version 2
Chandra X-Ray Center

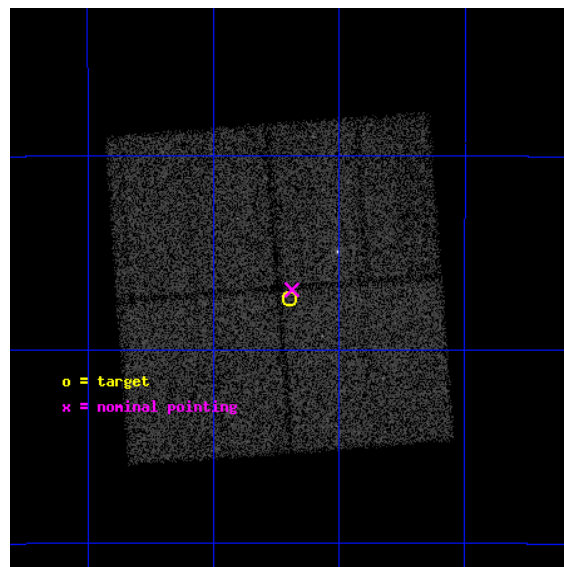
L2 Processing Date : May 14 2012

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1 Front

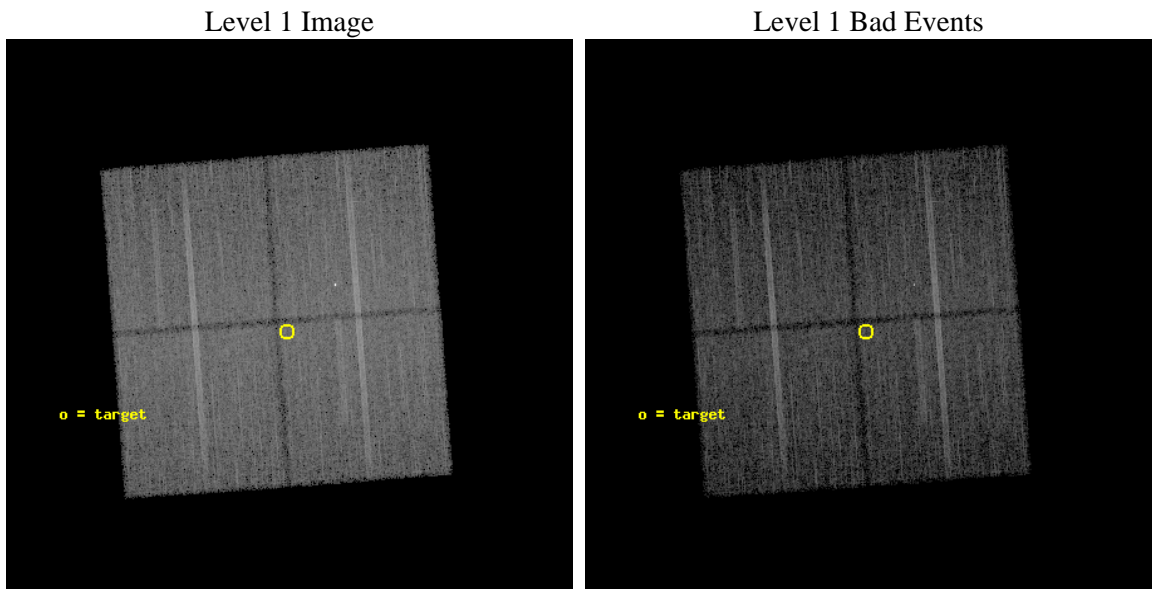
| | | |
|----------|-----------------------------------|---|
| seq_num | 600707 | Sequence number |
| obs_id | 9566 | Observation id |
| title | Galactic Bulge Latitude Survey -3 | Proposal title |
| observer | Professor Johnathan Grindlay | Principal investigator |
| object | GBW35 | Source name |
| dtycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 265.674167 | Observer's specified target RA [deg] |
| dec_targ | -28.789611 | Observer's specified target Dec [deg] |
| ra_nom | 265.67207051609 | Nominal RA [deg] |
| dec_nom | -28.781727435105 | Nominal Dec [deg] |
| roll_nom | 85.707682457696 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 15651.454870939 | Sum of GTIs [s] |
| livetime | 15446.957090617 | Livetime [s] |
| ontime0 | 15654.472791135 | Sum of GTIs [s] |
| ontime1 | 15657.654821455 | Sum of GTIs [s] |
| ontime2 | 15654.554851174 | Sum of GTIs [s] |
| ontime3 | 15651.454870939 | Sum of GTIs [s] |
| l2events | 73332 | Number of level 2 events |



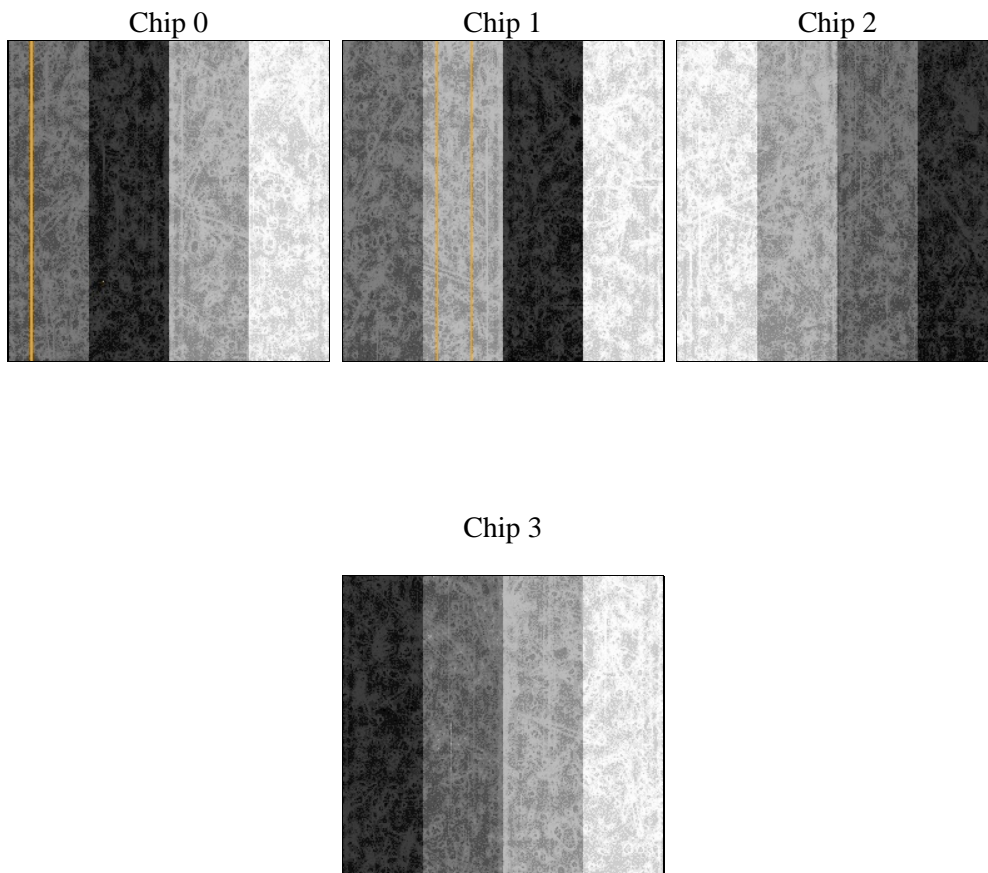
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 15599.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 15651.454870939 | Sum of GTIs [s] |
| caldbver | 4.4.9 | | ontime0 | 15654.472791135 | Sum of GTIs [s] |
| date | 2012-05-14T20:53:38 | Date and time of file creation | ontime1 | 15657.654821455 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 15654.554851174 | Sum of GTIs [s] |
| | | | ontime3 | 15651.454870939 | Sum of GTIs [s] |
| | | | l1events | 588948 | Number of level 1 events |

2.1.4 Events

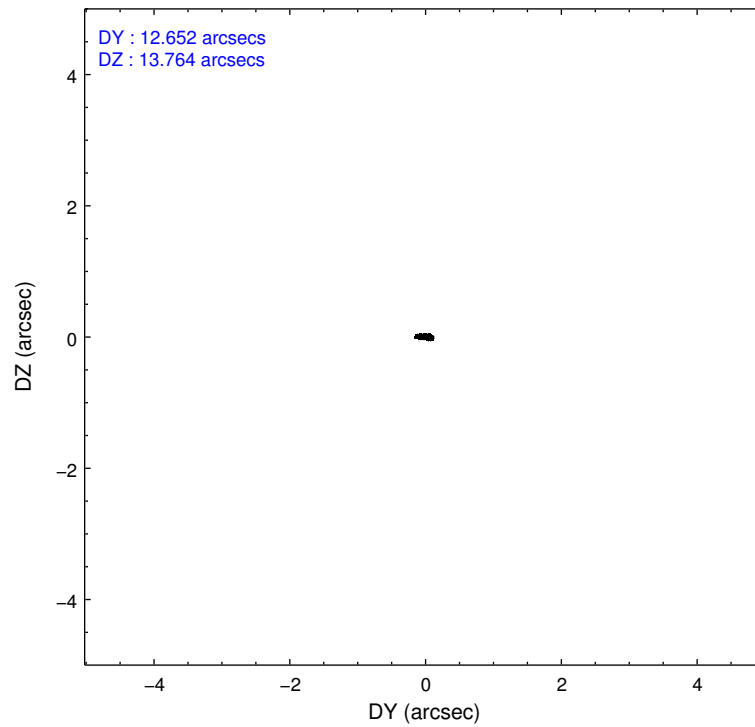
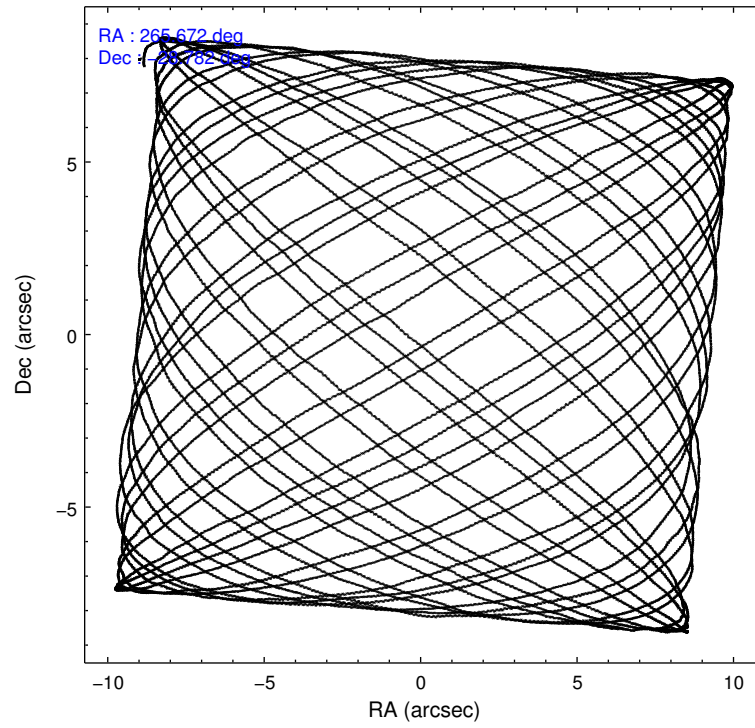
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|-----------------|--------|--------|--------|--------|
| level 1 events | 141797 | 142420 | 156405 | 148326 |
| rejected events | 121665 | 121039 | 133934 | 128033 |
| rejected % | 85% | 84% | 85% | 86% |

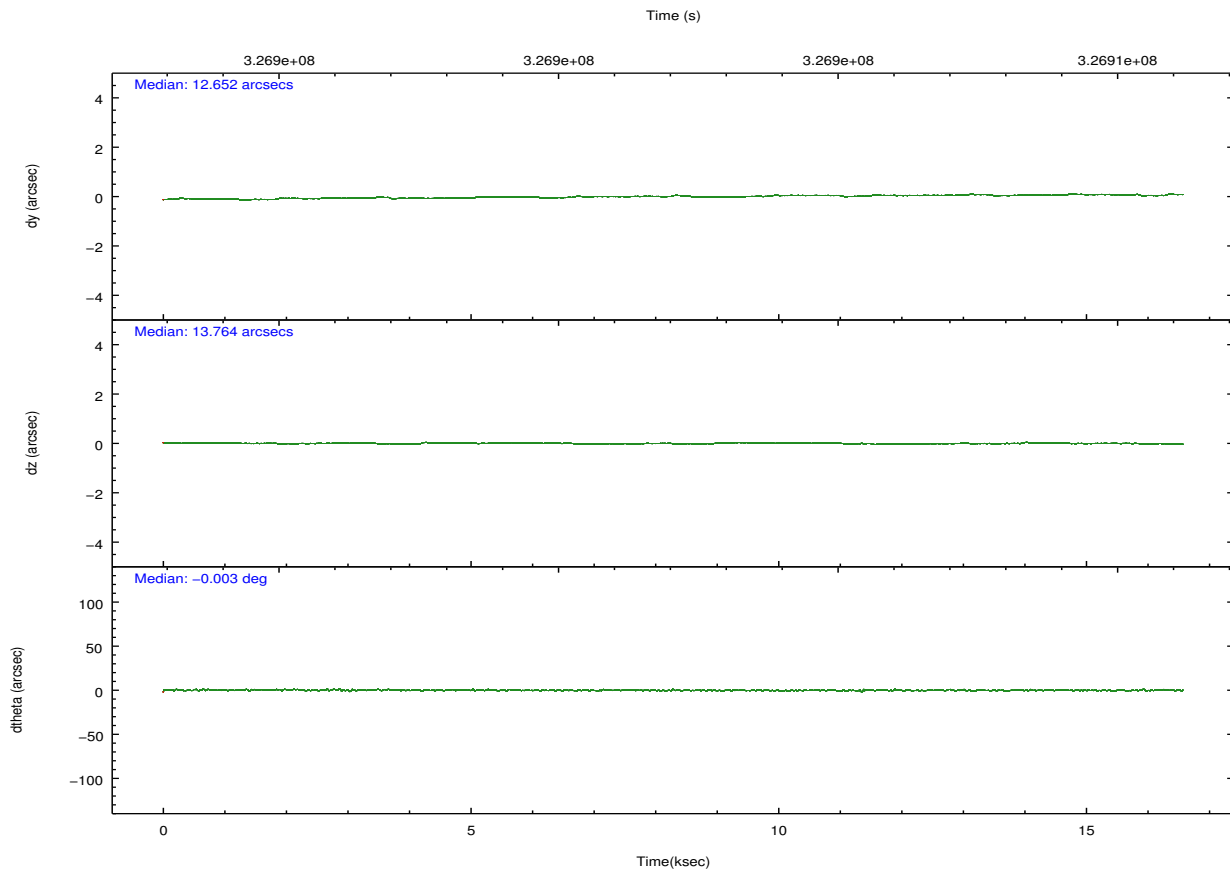
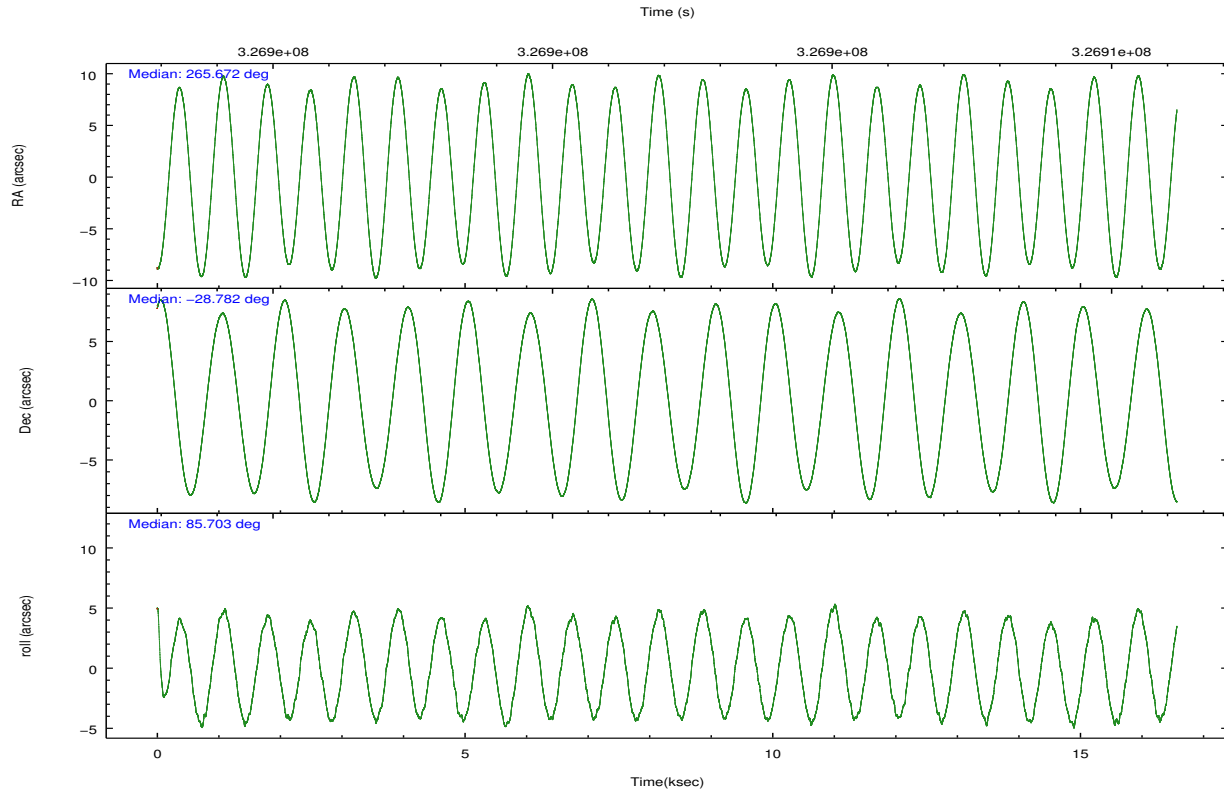
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 |
|----------------|--------|--------|--------|--------|
| grade 0 events | 9064 | 8840 | 11331 | 9569 |
| | 6% | 6% | 7% | 6% |
| grade 1 events | 83 | 90 | 326 | 105 |
| | 0% | 0% | 0% | 0% |
| grade 2 events | 4318 | 4864 | 4352 | 3806 |
| | 3% | 3% | 2% | 2% |
| grade 3 events | 1818 | 1914 | 1796 | 1856 |
| | 1% | 1% | 1% | 1% |
| grade 4 events | 1688 | 1854 | 1824 | 1782 |
| | 1% | 1% | 1% | 1% |
| grade 5 events | 6271 | 6799 | 6079 | 7116 |
| | 4% | 4% | 3% | 4% |
| grade 6 events | 3252 | 3912 | 3169 | 3284 |
| | 2% | 2% | 2% | 2% |
| grade 7 events | 115303 | 114147 | 127528 | 120808 |
| | 81% | 80% | 81% | 81% |

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 | 265.685817 | 265.6720705160903 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -28.806464 | -28.7817274351051 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 85.505615 | 85.70768245769594 | [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 | -233.5899487761303 | | | |
| [mm] SIM translation stage offset | 0 | -0.002504226799430853 | | | |
| [s] Observation start time (MET) | 326894728.184000 | 326893465.55494 | | | |
| Observation start date | 2008-05-11T12:04:23 | 2008-05-11T11:44:25 | | | |
| [s] Observation end time (MET) | 326910327.184000 | 326910461.08077 | | | |
| Observation end date | 2008-05-11T16:24:22 | 2008-05-11T16:27:41 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



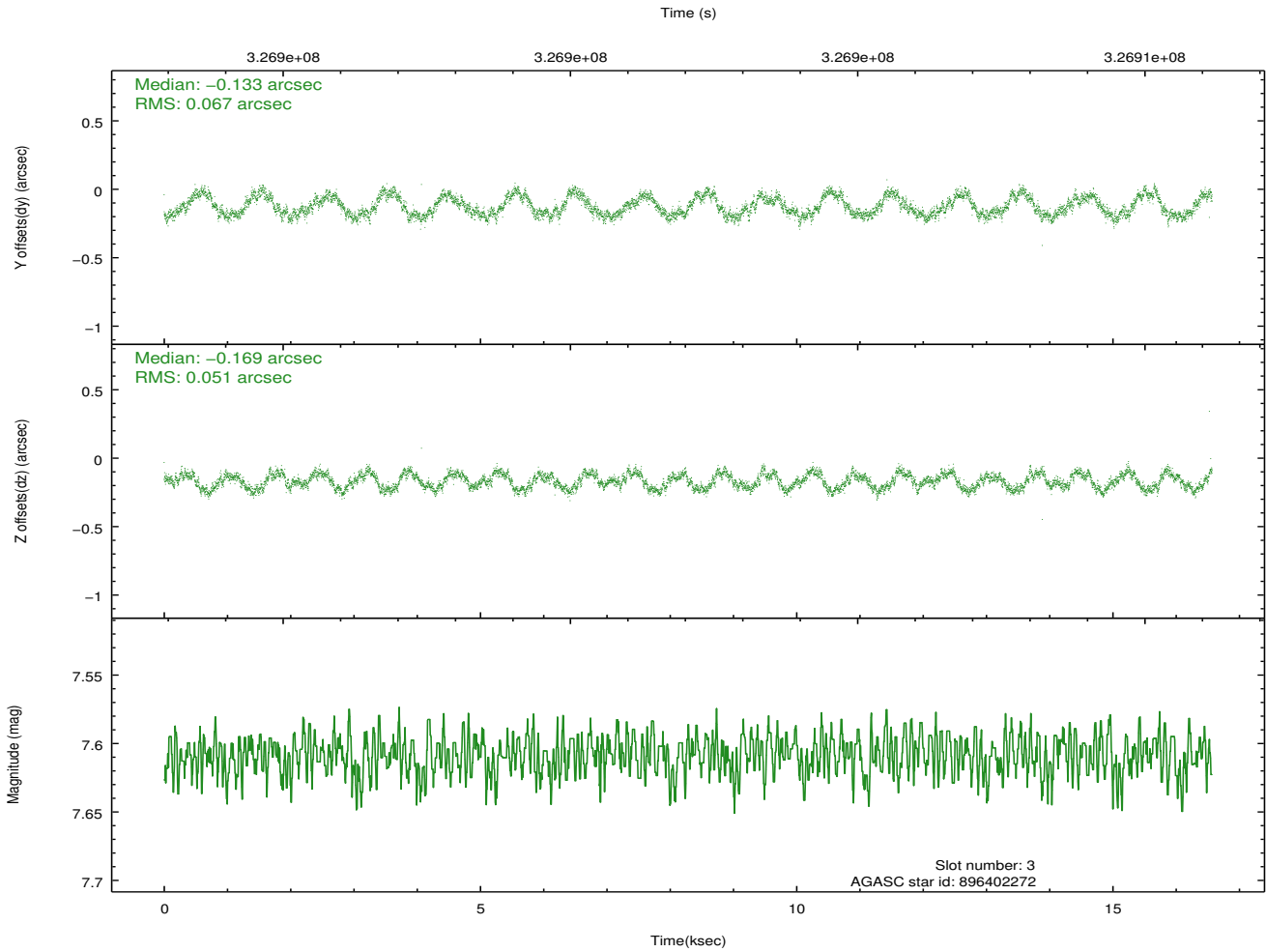
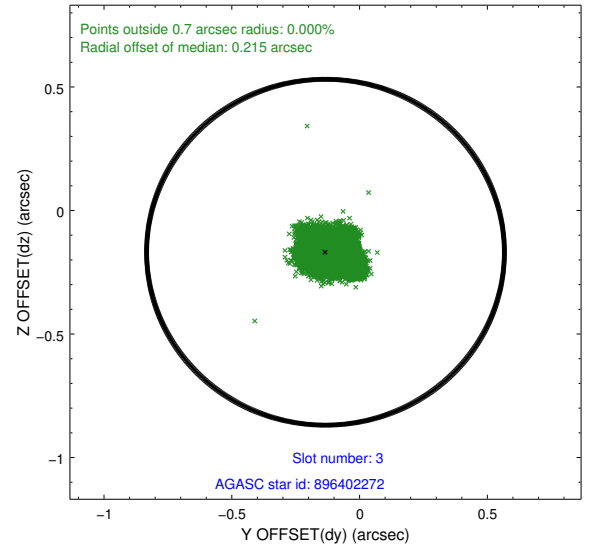
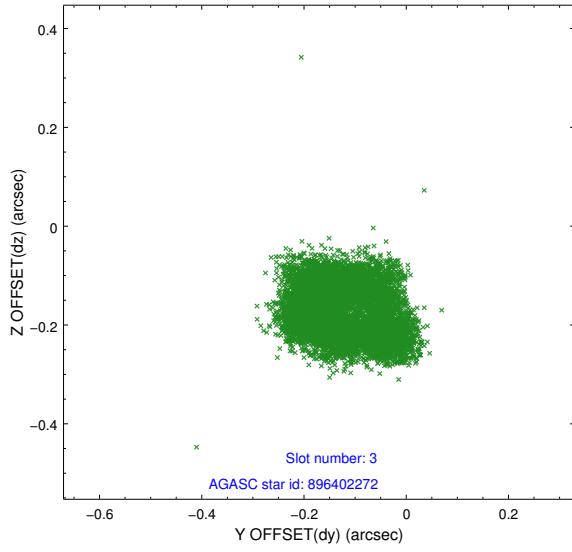


Slot Statistics

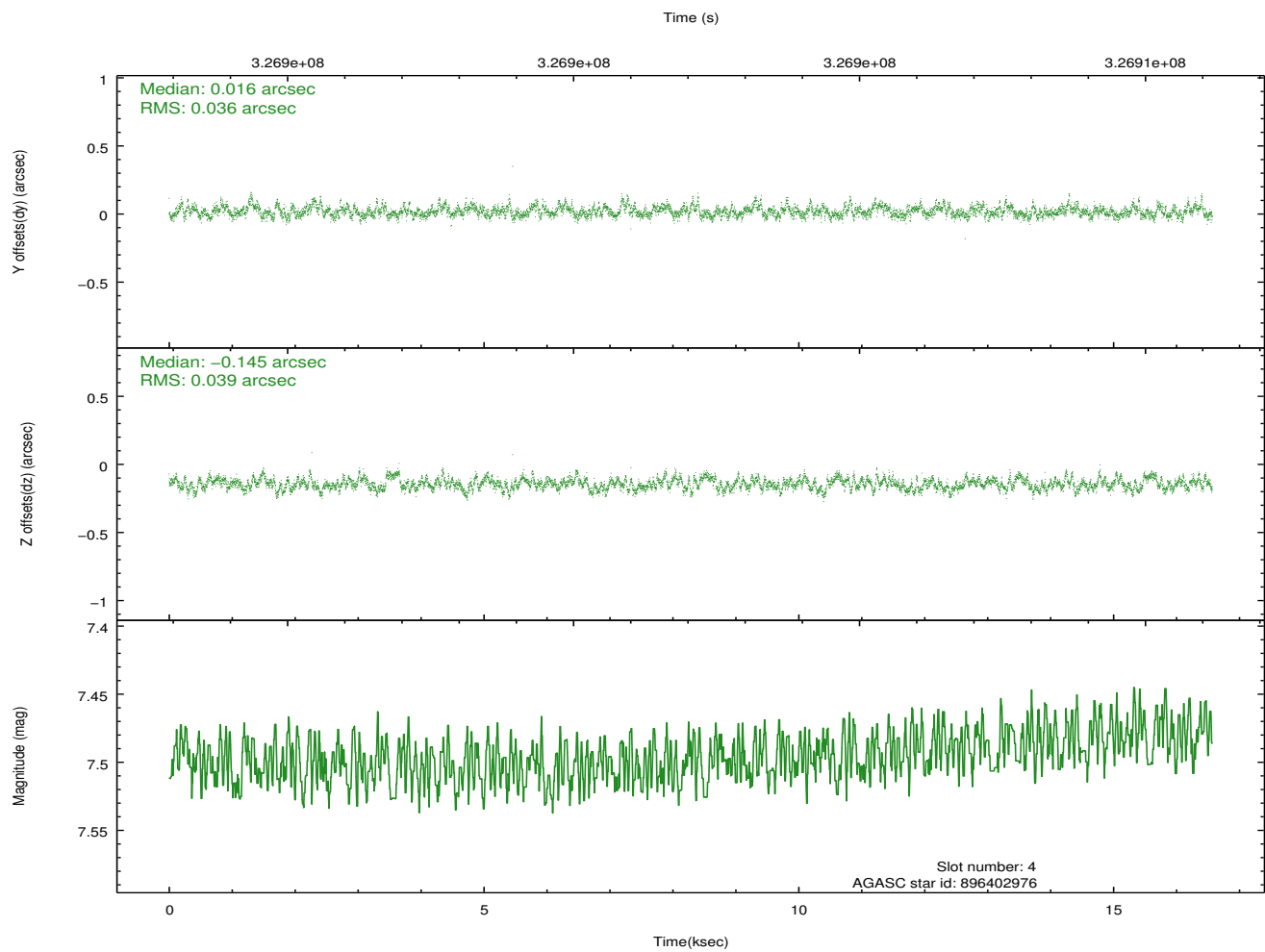
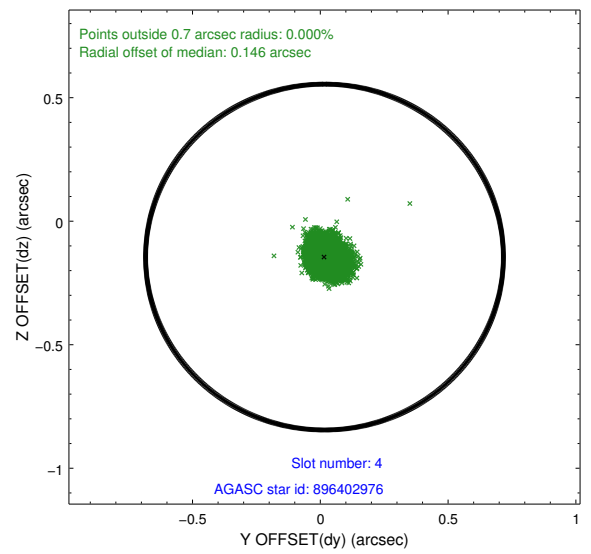
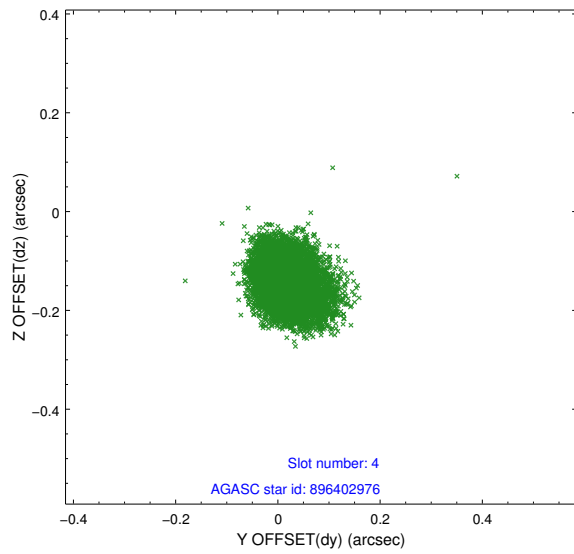
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|------------|------------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.05 | 4042 | 0.002 | 0.046 | 0.007 | 0.011 | 0.000000 | 0.000000 | 926.89 | -837.22 |
| 1 | FID | ACIS-I-5 | 7.04 | 4042 | -0.156 | 0.031 | 0.006 | 0.011 | 0.000000 | 0.000000 | -1821.25 | 1060.09 |
| 2 | FID | ACIS-I-6 | 7.05 | 4042 | 0.063 | -0.006 | 0.007 | 0.011 | 0.000000 | 0.000000 | 392.18 | 1704.87 |
| 3 | GUIDE | 896402272 | 7.61 | 8084 | -0.133 | -0.169 | 0.090 | 0.137 | 265.637294 | -28.313189 | 1758.26 | 292.55 |
| 4 | GUIDE | 896402976 | 7.50 | 8083 | 0.016 | -0.145 | 0.056 | 0.093 | 265.099474 | -28.923203 | -568.05 | 1808.53 |
| 5 | GUIDE | 896538696 | 6.90 | 8083 | -0.241 | 0.277 | 0.042 | 0.068 | 266.298470 | -28.325572 | 1873.10 | -1799.54 |
| 6 | GUIDE | 896540808 | 7.48 | 8080 | 0.125 | 0.161 | 0.069 | 0.101 | 265.985401 | -29.308604 | -1729.05 | -1079.44 |
| 7 | GUIDE | 896403224 | 8.26 | 8078 | 0.221 | -0.122 | 0.068 | 0.108 | 265.612825 | -29.438915 | -2287.85 | 49.31 |

2.4 Star Slots

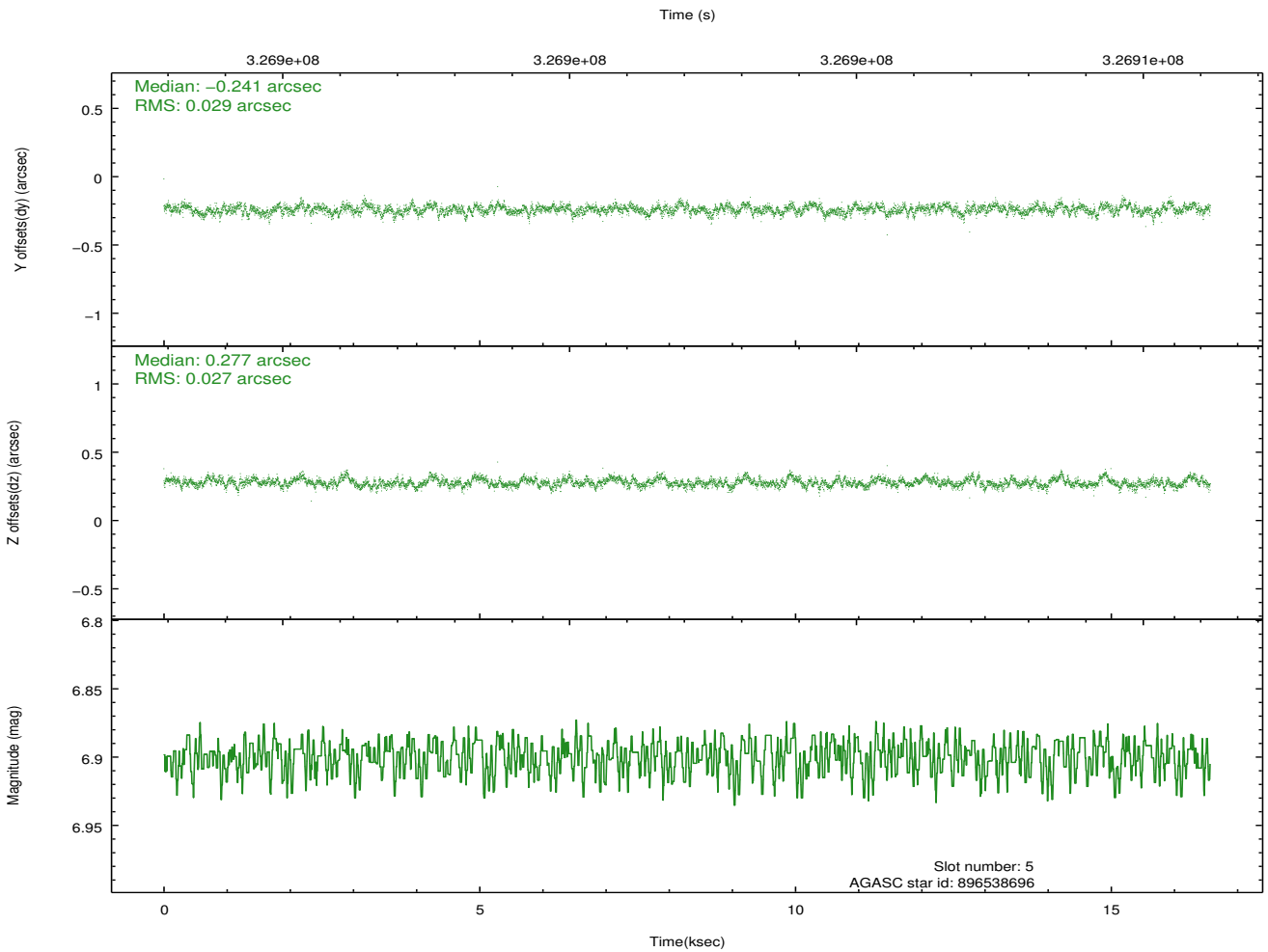
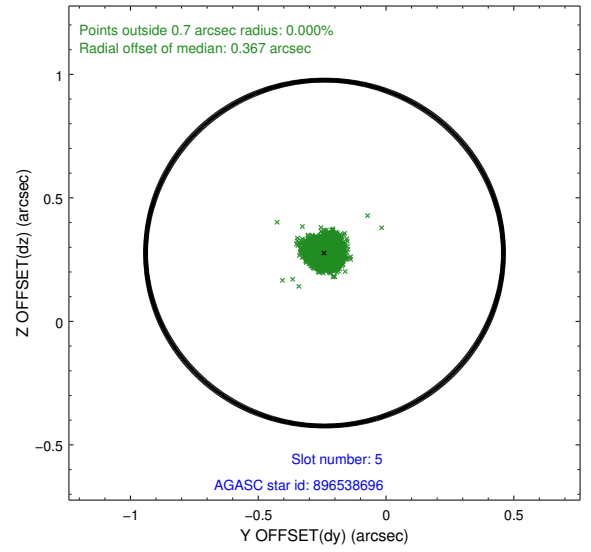
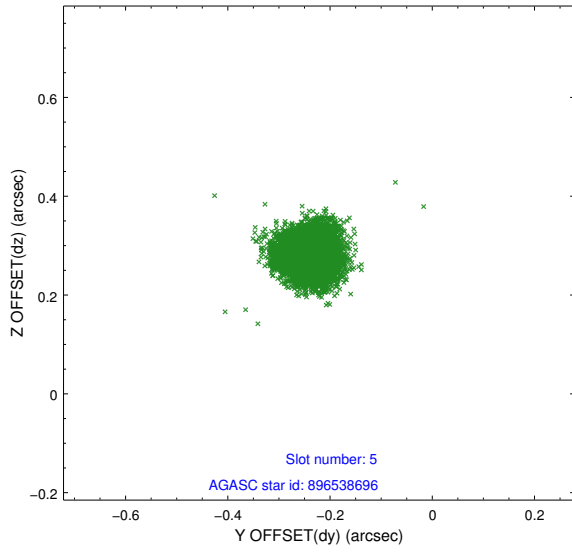
2.4.1 Slot 3



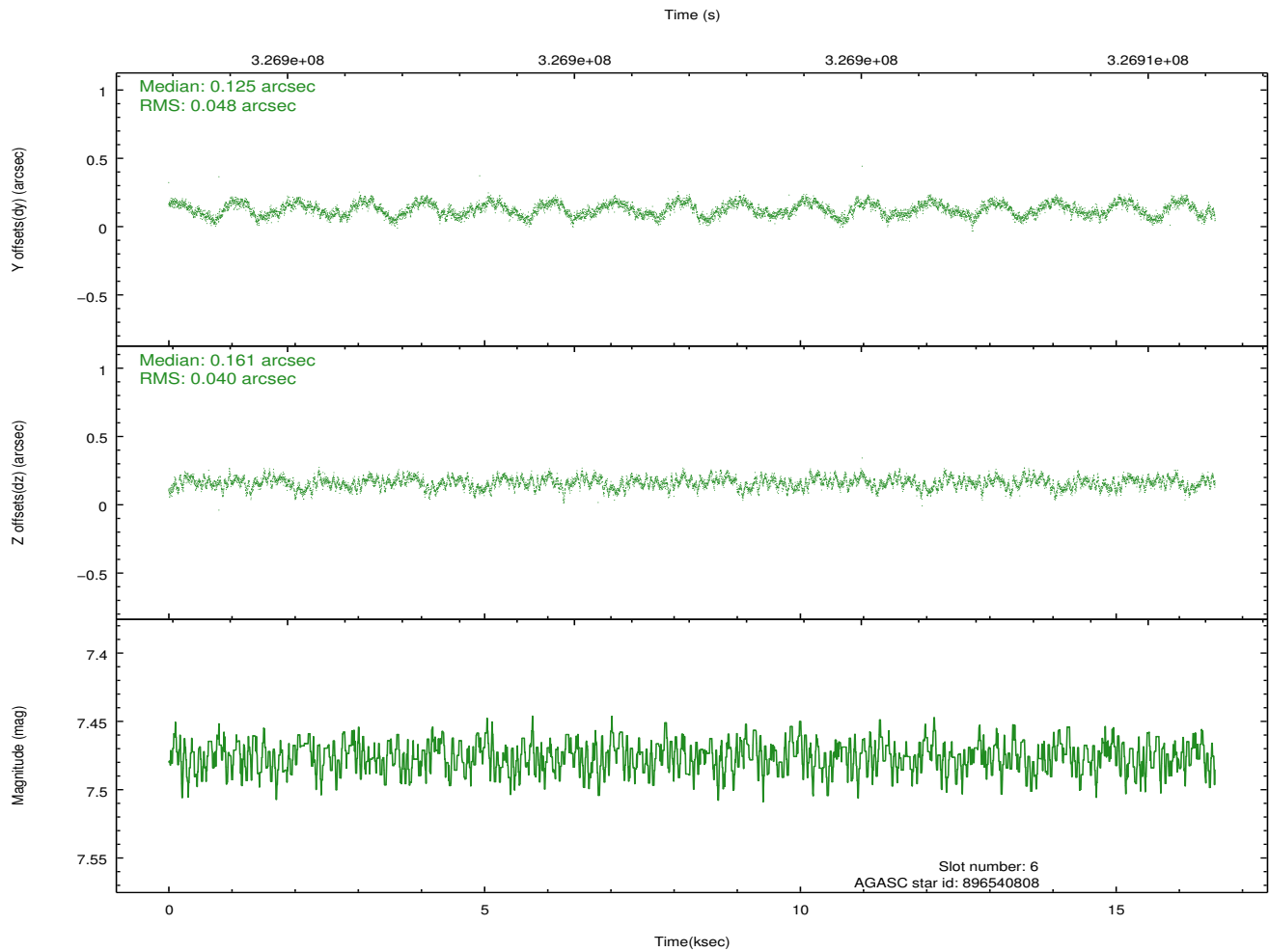
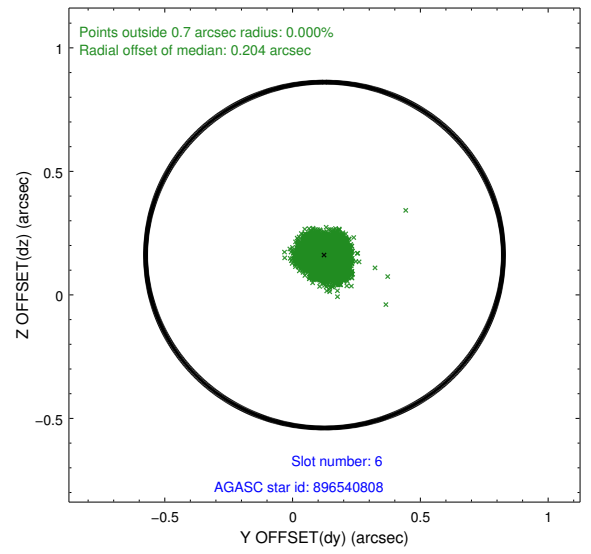
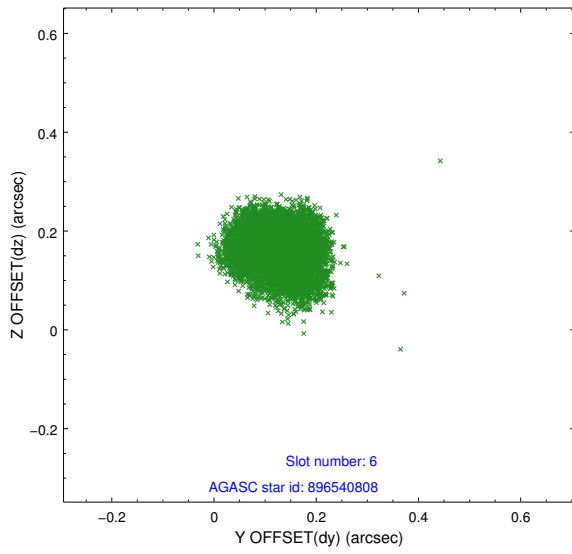
2.4.2 Slot 4



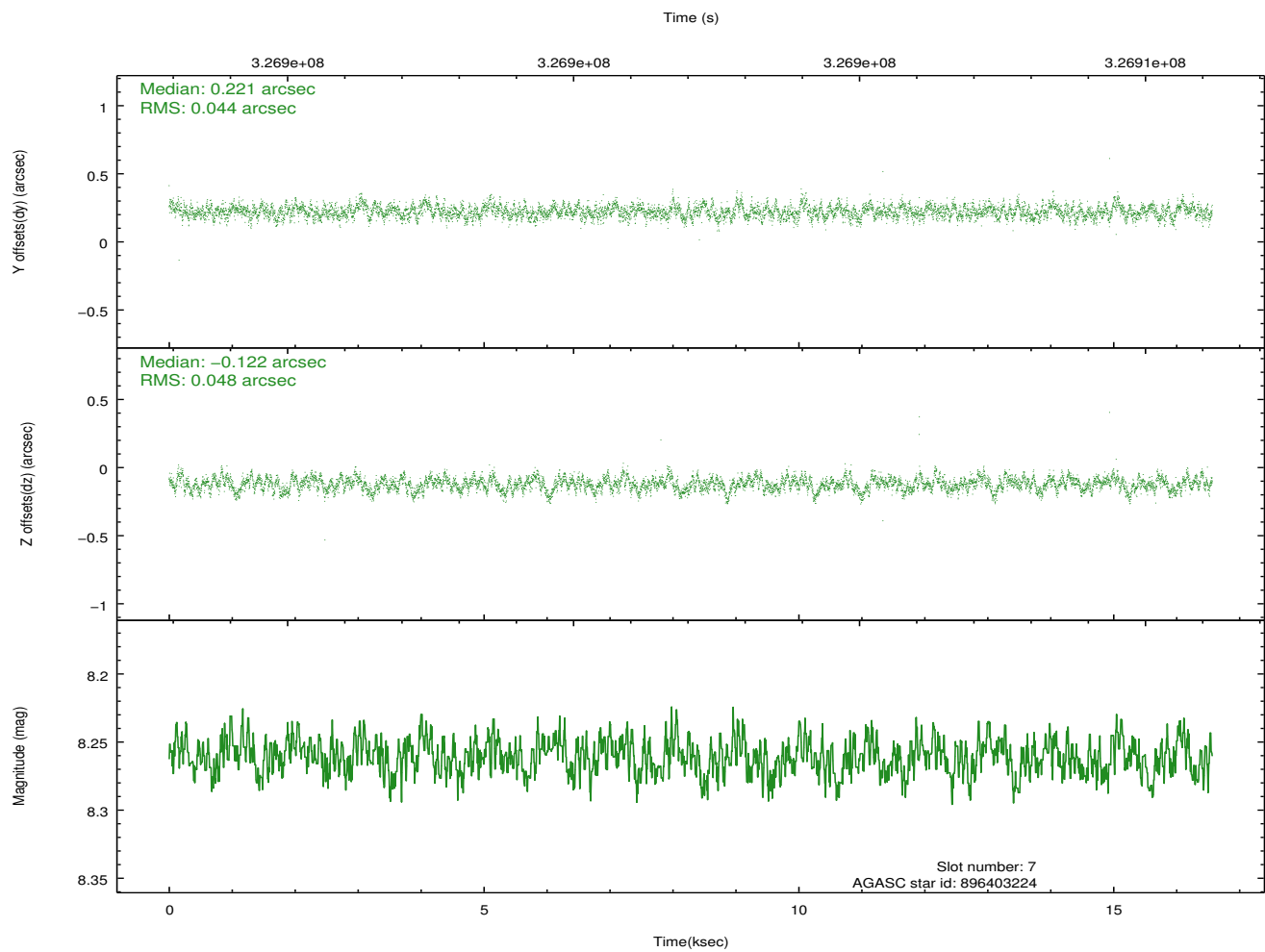
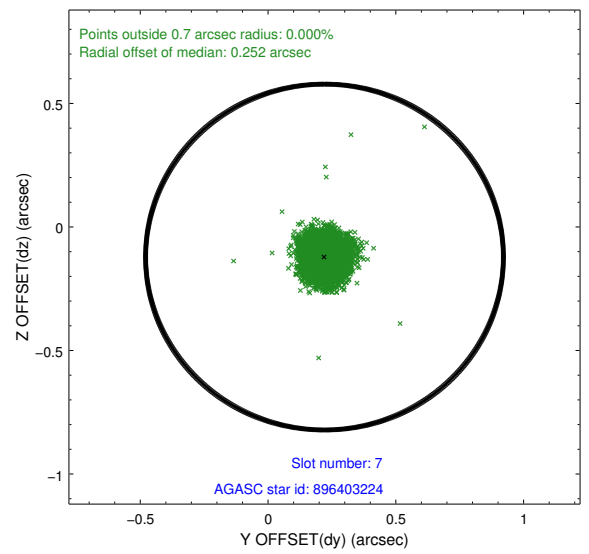
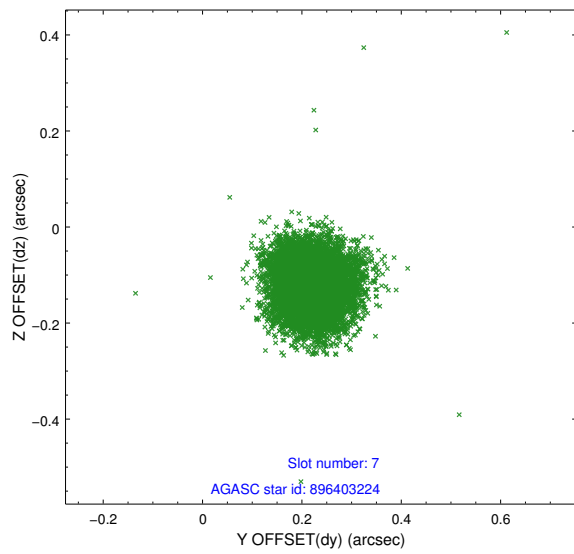
2.4.3 Slot 5



2.4.4 Slot 6

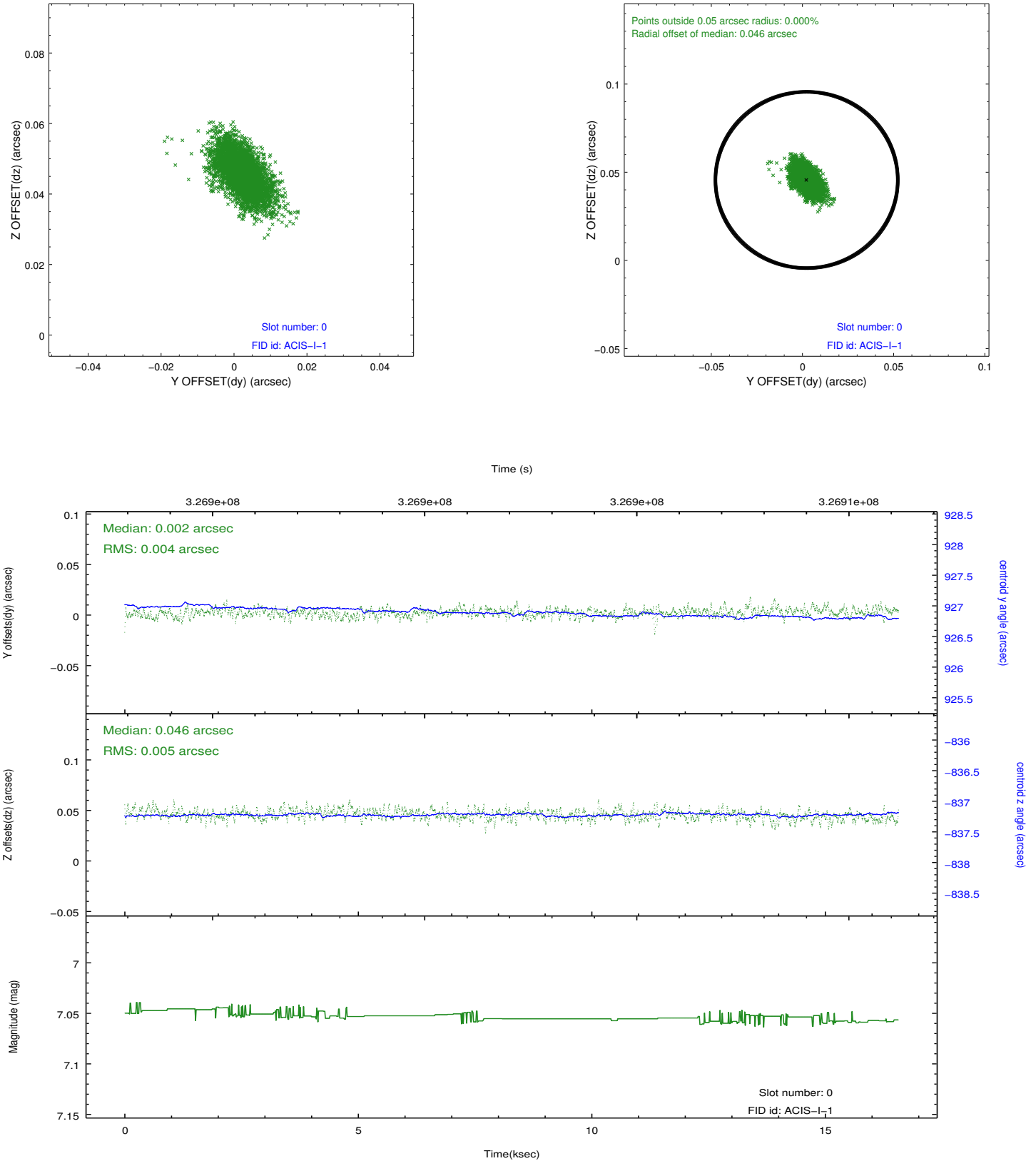


2.4.5 Slot 7

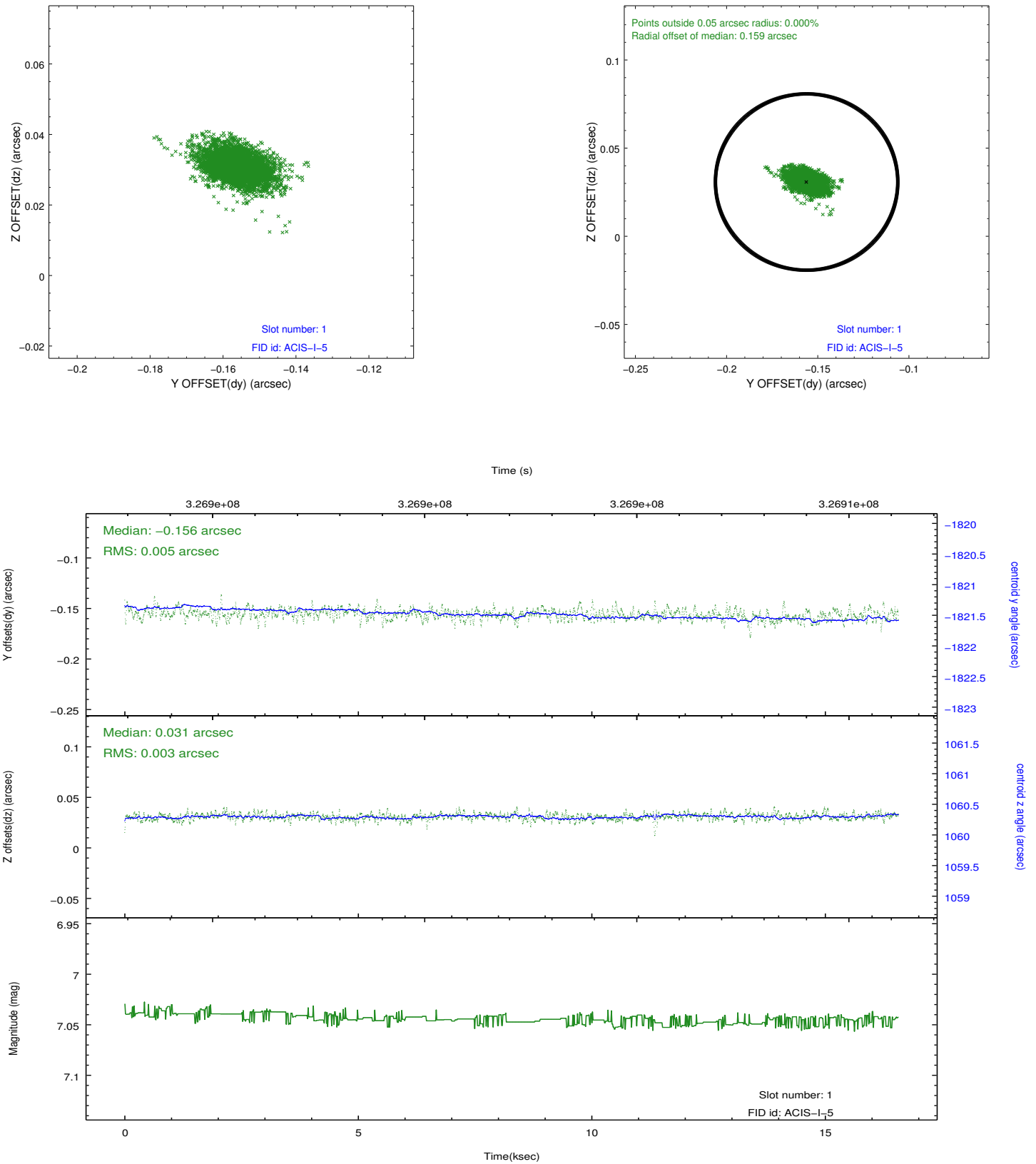


2.5 FID Slots

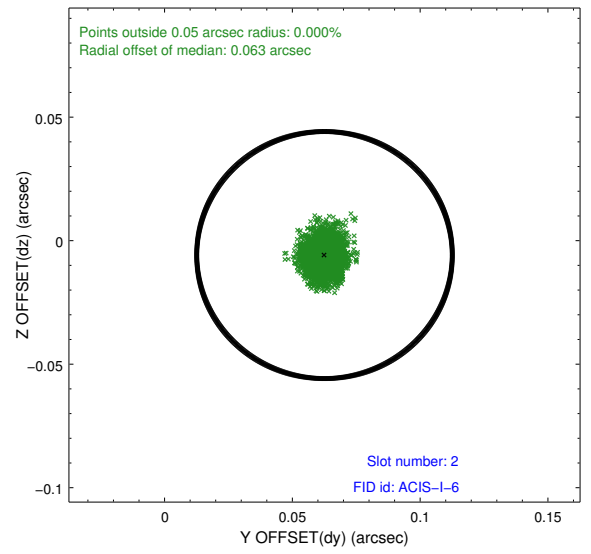
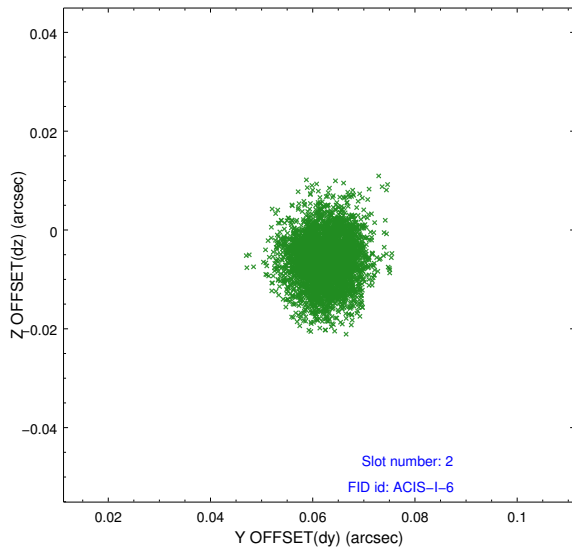
2.5.1 Slot 0



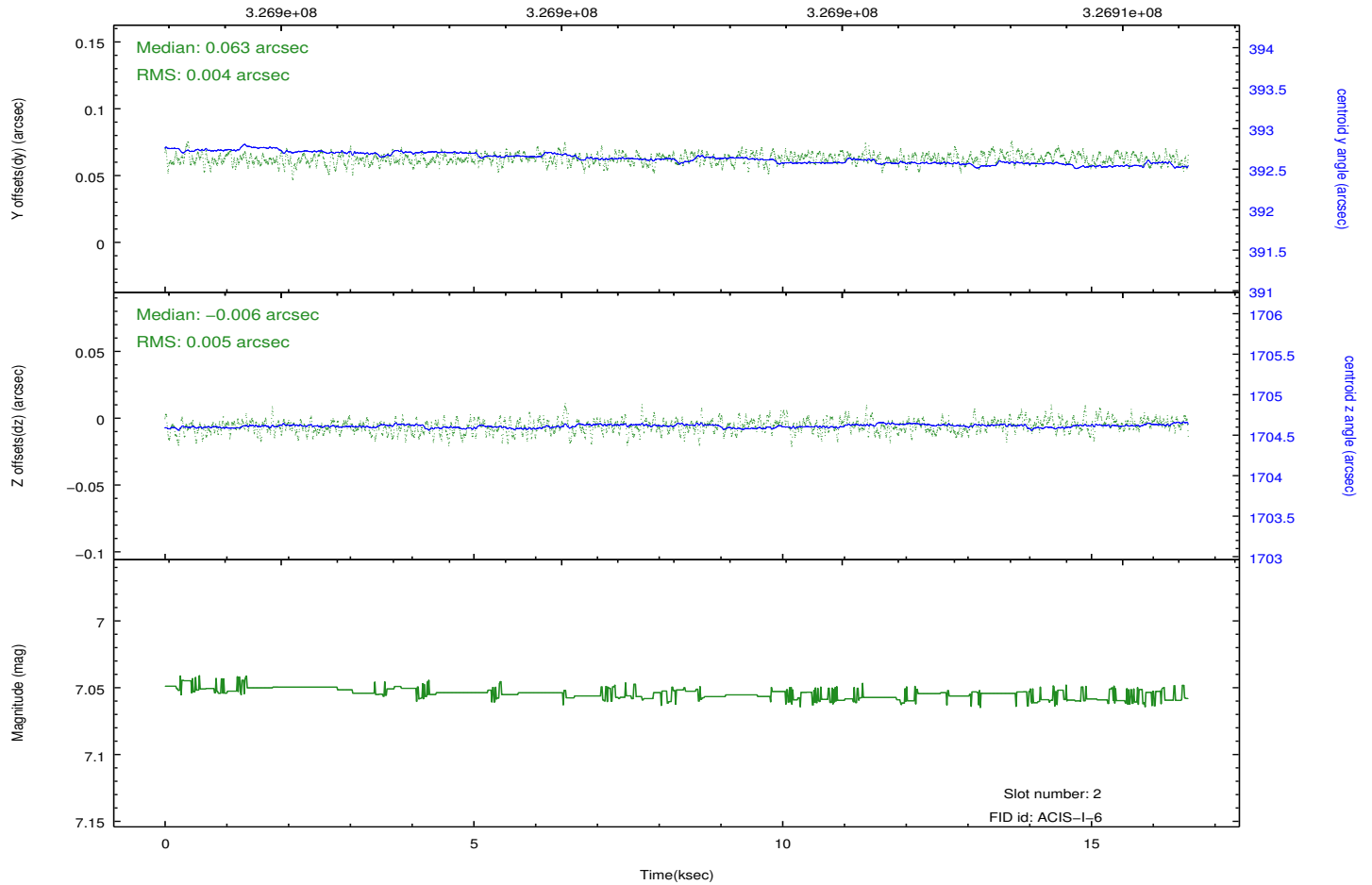
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.05.16 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 15.651818 |

A.2 Comments

Joint Proposal: NOAO. Roll preference met.