

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9415 - L2 Version 2
Chandra X-Ray Center

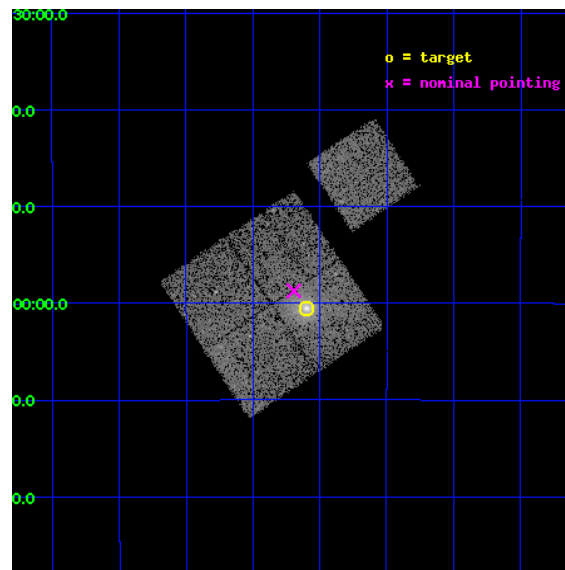
L2 Processing Date : May 22 2012

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1 Front

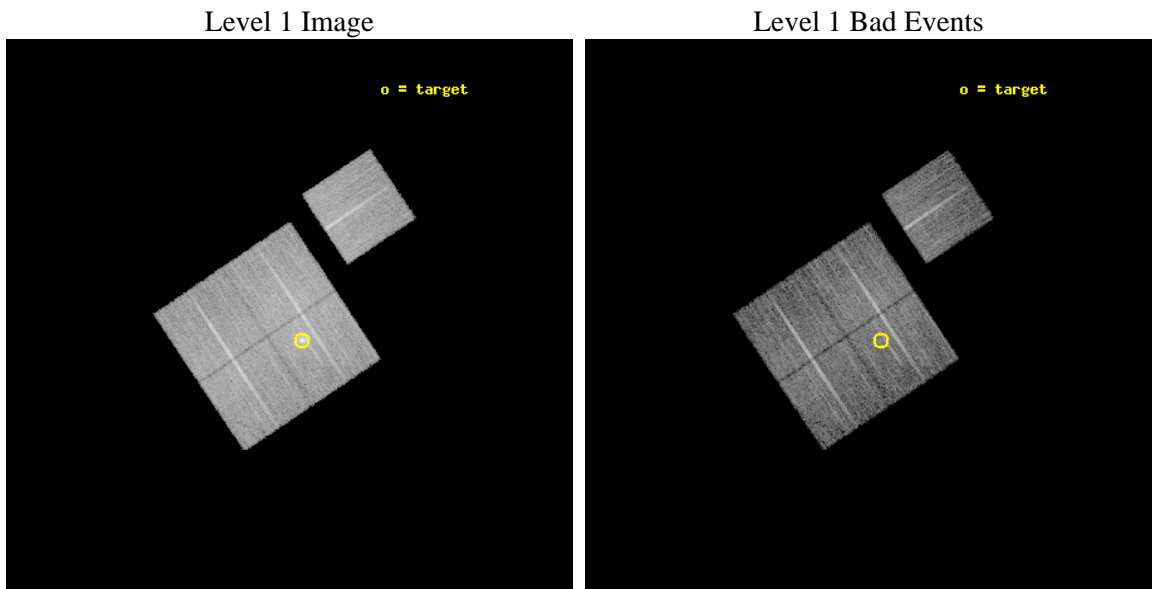
| | | |
|----------|--|---|
| seq_num | 800751 | Sequence number |
| obs_id | 9415 | Observation id |
| title | LoCuSS: Cluster Mass Comparison with Chandra and HST -- Observational Discrepancy or Agreement in the New Millennium? | Proposal title |
| observer | Dr Graham Smith | Principal investigator |
| object | RXCJ0331.1-2100 | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 52.774458 | Observer's specified target RA [deg] |
| dec_targ | -21.009083 | Observer's specified target Dec [deg] |
| ra_nom | 52.798601917868 | Nominal RA [deg] |
| dec_nom | -20.978797572181 | Nominal Dec [deg] |
| roll_nom | 56.217295243002 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 10037.759076834 | Sum of GTIs [s] |
| livetime | 9906.6083648042 | Livetime [s] |
| ontime0 | 10037.759066939 | Sum of GTIs [s] |
| ontime1 | 10040.900077224 | Sum of GTIs [s] |
| ontime2 | 10040.900077224 | Sum of GTIs [s] |
| ontime3 | 10037.759076834 | Sum of GTIs [s] |
| ontime6 | 10037.759086907 | Sum of GTIs [s] |
| l2events | 43946 | Number of level 2 events |



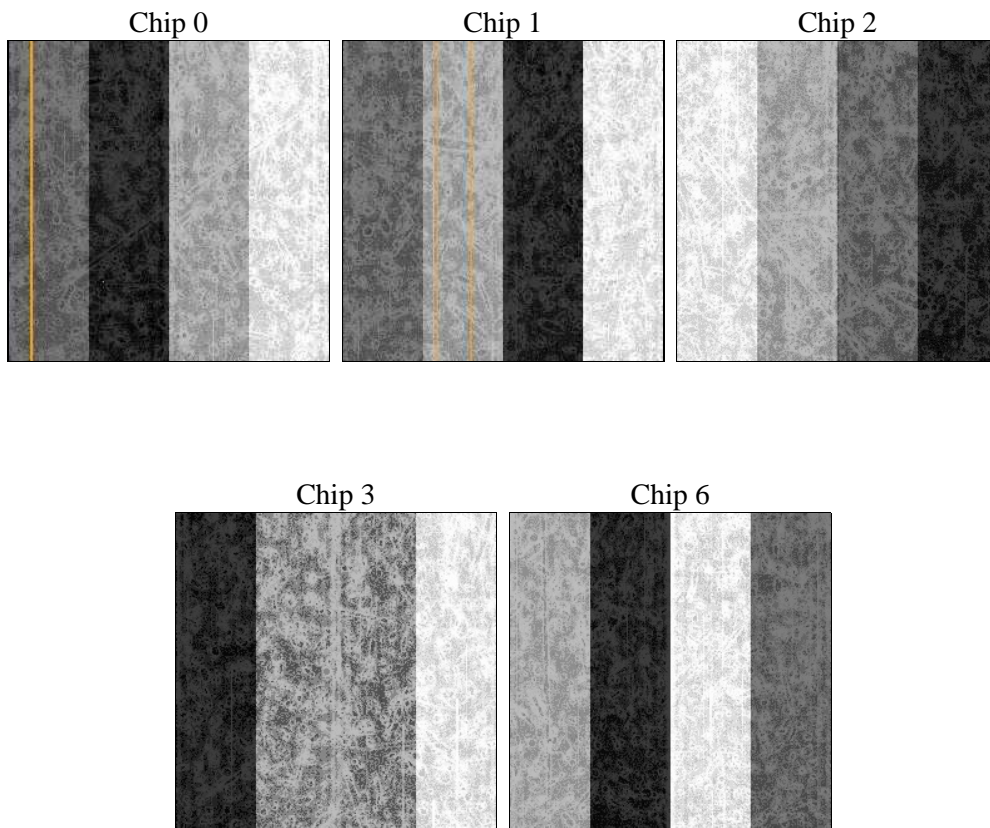
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 10000.000000 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.4 | Processing system revision | ontime | 10037.759076834 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 10037.759066939 | Sum of GTIs [s] |
| date | 2012-05-22T10:29:34 | Date and time of file creation | ontime1 | 10040.900077224 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 10040.900077224 | Sum of GTIs [s] |
| | | | ontime3 | 10037.759076834 | Sum of GTIs [s] |
| | | | ontime6 | 10037.759086907 | Sum of GTIs [s] |
| | | | l1events | 417189 | Number of level 1 events |

2.1.4 Events

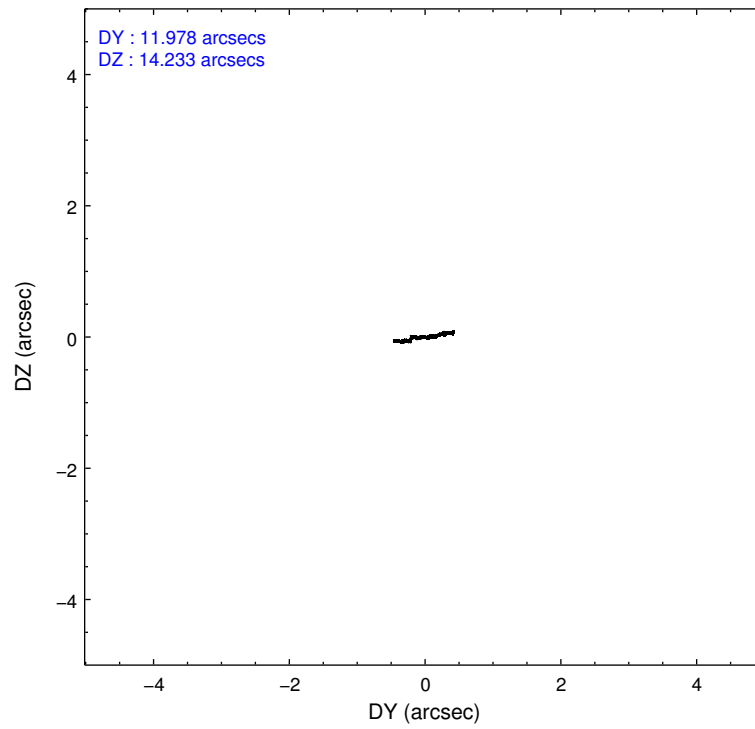
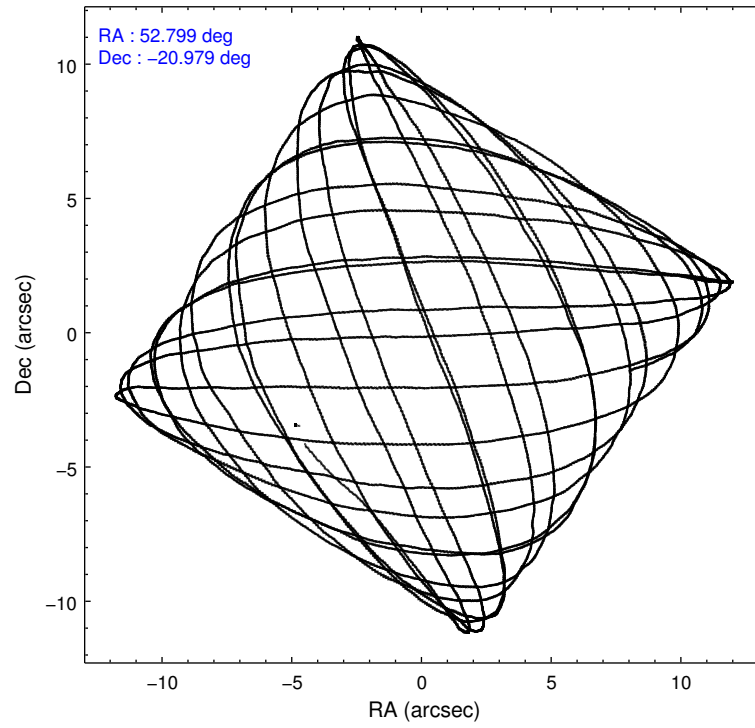
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|-----------------|-------|-------|-------|-------|-------|
| level 1 events | 77522 | 77580 | 90994 | 90577 | 80516 |
| rejected events | 69061 | 67839 | 82518 | 74638 | 71815 |
| rejected % | 89% | 87% | 90% | 82% | 89% |

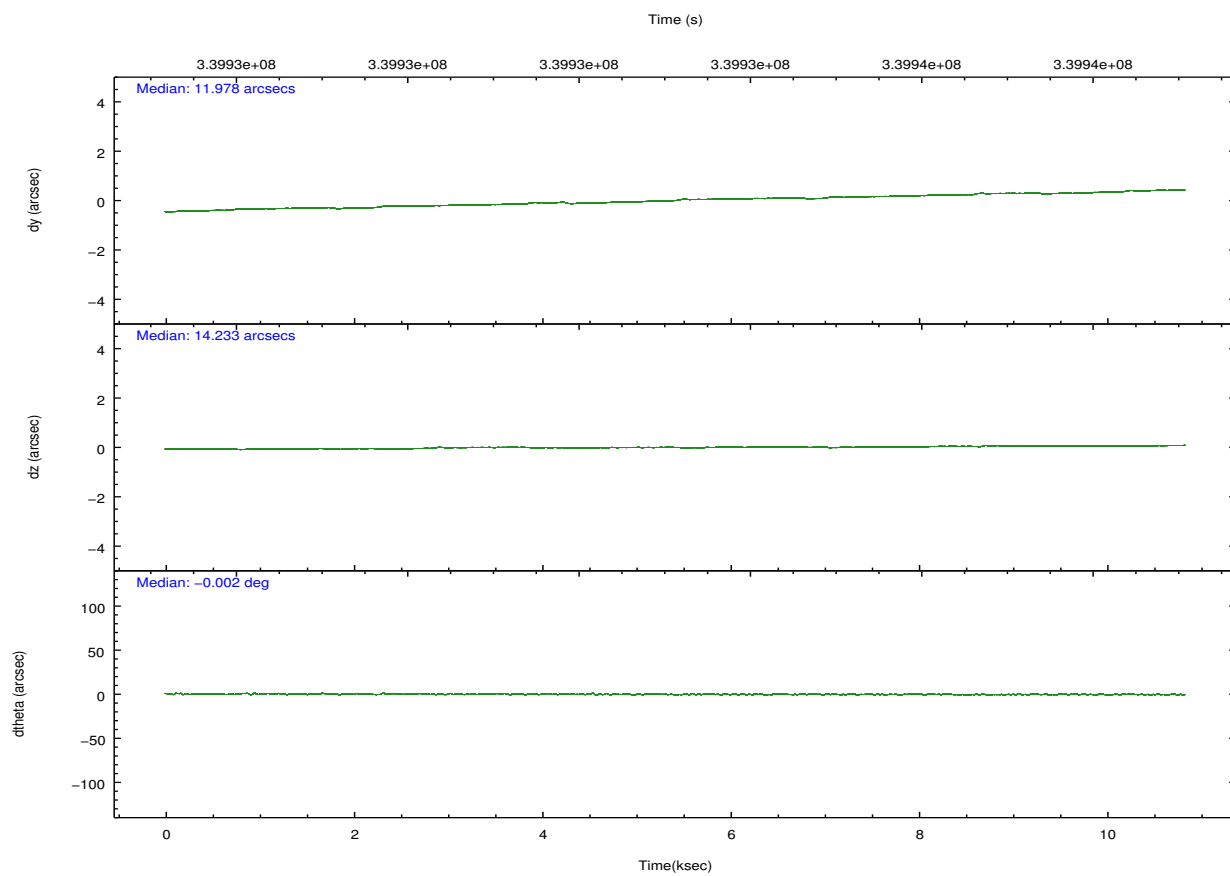
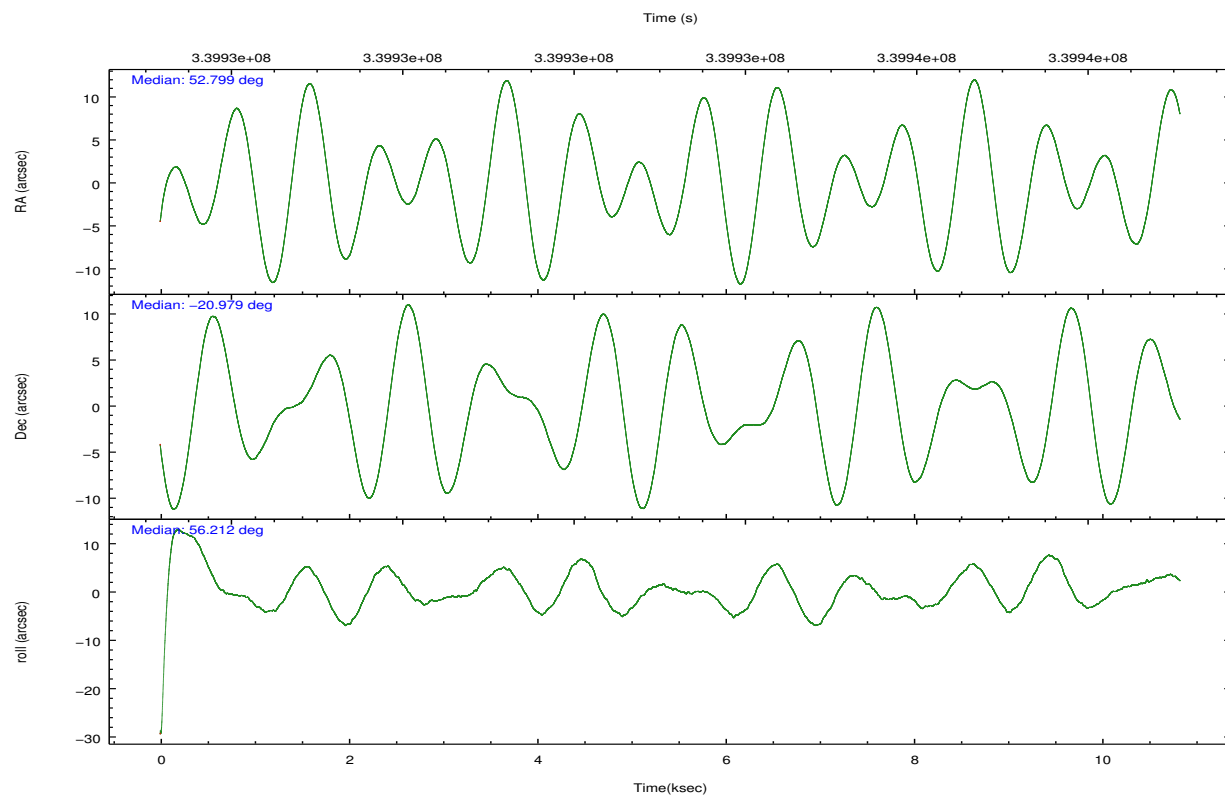
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 |
|----------------|-------|-------|-------|-------|-------|
| grade 0 events | 2979 | 3615 | 3243 | 9358 | 3064 |
| | 3% | 4% | 3% | 10% | 3% |
| grade 1 events | 46 | 33 | 51 | 92 | 36 |
| | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 1963 | 2139 | 1994 | 2519 | 1891 |
| | 2% | 2% | 2% | 2% | 2% |
| grade 3 events | 969 | 995 | 863 | 1105 | 916 |
| | 1% | 1% | 0% | 1% | 1% |
| grade 4 events | 894 | 1004 | 883 | 1197 | 961 |
| | 1% | 1% | 0% | 1% | 1% |
| grade 5 events | 2970 | 3188 | 2790 | 3529 | 3402 |
| | 3% | 4% | 3% | 3% | 4% |
| grade 6 events | 1661 | 1993 | 1498 | 1779 | 1878 |
| | 2% | 2% | 1% | 1% | 2% |
| grade 7 events | 66040 | 64613 | 79672 | 70998 | 68368 |
| | 85% | 83% | 87% | 78% | 84% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-01236 | ACIS-01236 | 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 | 52.796763 | 52.79860191786848 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | -21.006239 | -20.97879757218071 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 56.007993 | 56.2172952430023 | [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 | -227.592463 | -227.5933067819097 | | | |
| [mm] SIM translation stage offset | -6 | -5.999146221020027 | | | |
| [s] Observation start time (MET) | 339928531.184000 | 339927278.84087 | | | |
| Observation start date | 2008-10-09T08:34:26 | 2008-10-09T08:14:38 | | | |
| [s] Observation end time (MET) | 339938531.184000 | 339939337.45396 | | | |
| Observation end date | 2008-10-09T11:21:06 | 2008-10-09T11:35:37 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



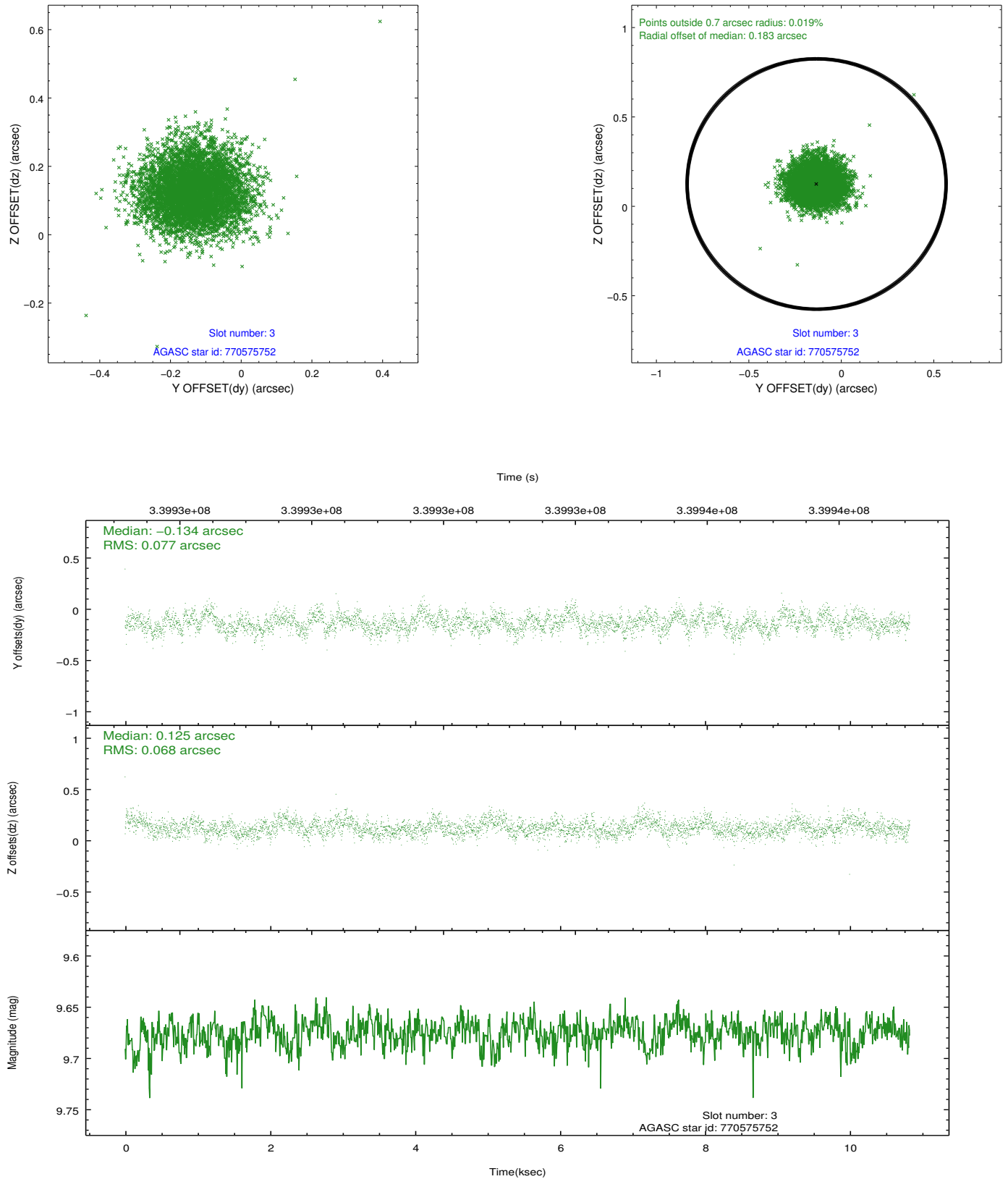


Slot Statistics

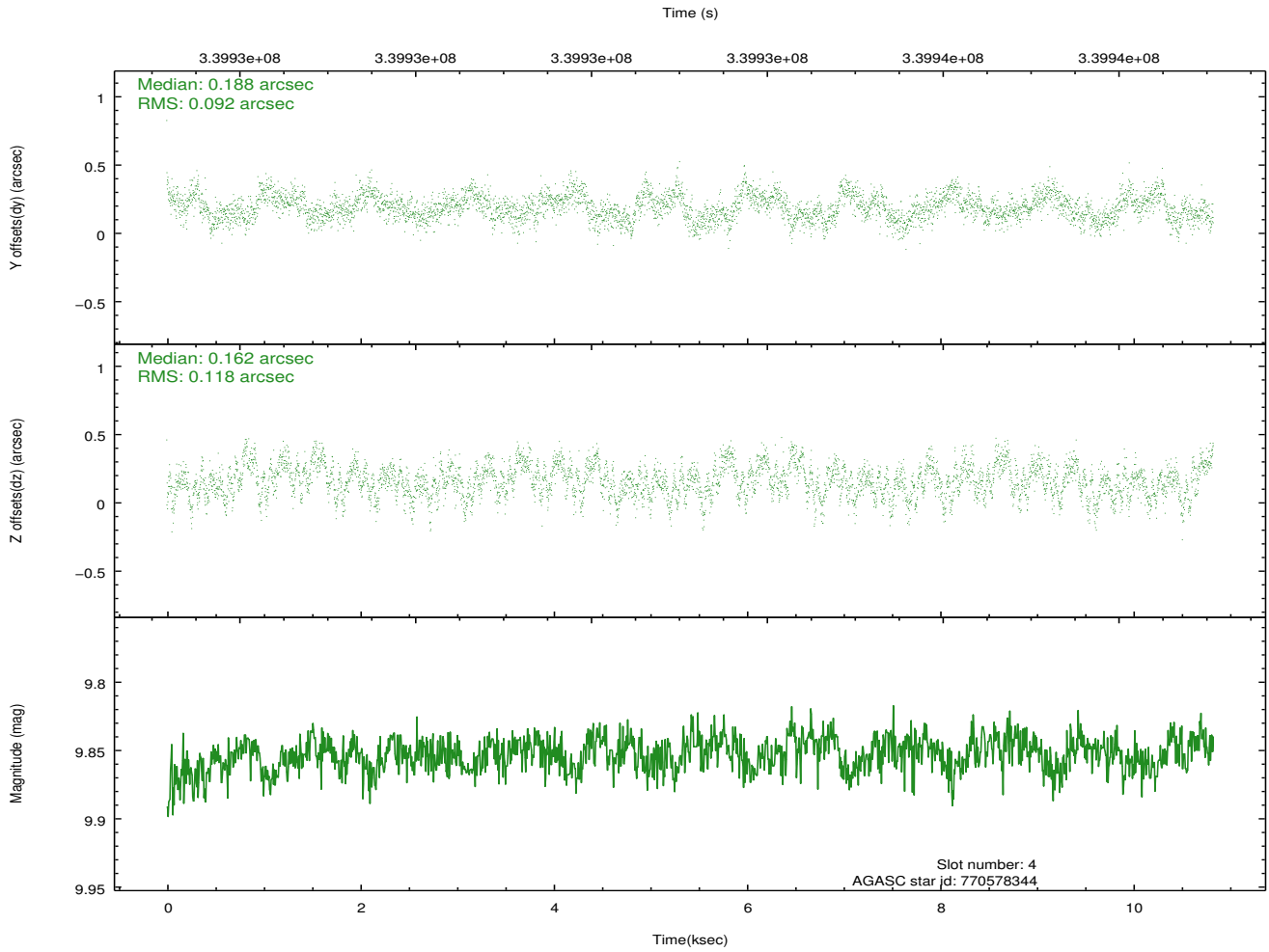
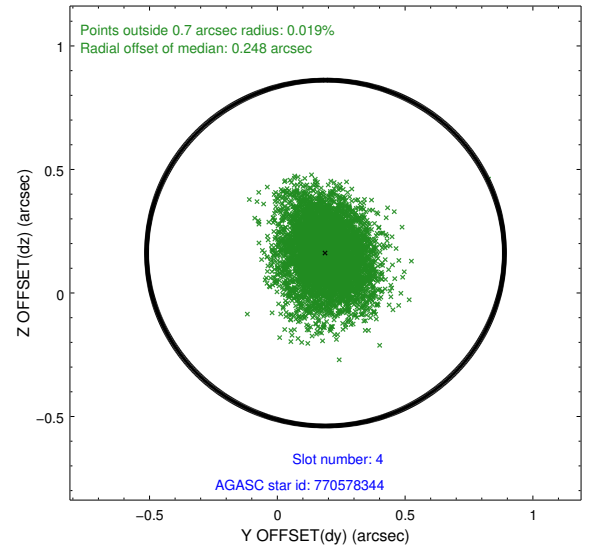
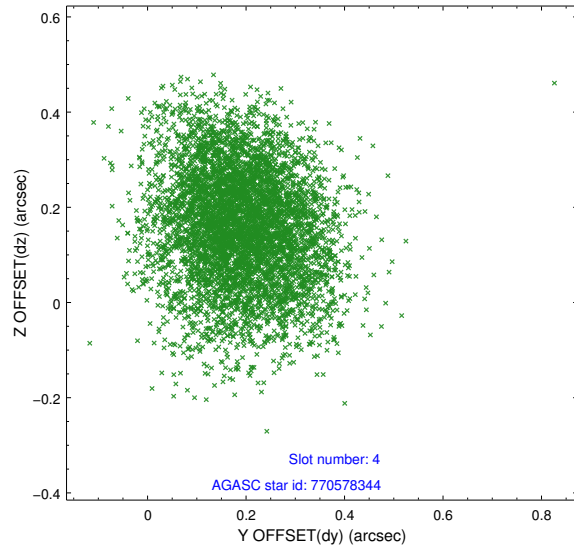
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|------------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.03 | 2642 | 0.088 | -0.035 | 0.007 | 0.012 | 0.000000 | 0.000000 | 927.55 | -960.97 |
| 1 | FID | ACIS-I-5 | 7.02 | 2642 | -0.222 | 0.091 | 0.007 | 0.012 | 0.000000 | 0.000000 | -1820.61 | 936.34 |
| 2 | FID | ACIS-I-6 | 7.04 | 2642 | 0.042 | 0.014 | 0.007 | 0.013 | 0.000000 | 0.000000 | 392.51 | 1581.32 |
| 3 | GUIDE | 770575752 | 9.68 | 5278 | -0.134 | 0.125 | 0.109 | 0.175 | 53.244440 | -20.781547 | 1511.46 | -797.71 |
| 4 | GUIDE | 770578344 | 9.85 | 5272 | 0.188 | 0.162 | 0.160 | 0.257 | 53.019857 | -21.247567 | -301.49 | -1106.38 |
| 5 | GUIDE | 770580144 | 8.83 | 5267 | -0.106 | -0.182 | 0.068 | 0.112 | 52.976569 | -20.368072 | 2243.20 | 781.20 |
| 6 | GUIDE | 770581640 | 7.84 | 5283 | 0.024 | -0.010 | 0.073 | 0.114 | 52.322400 | -21.371182 | -1979.75 | 582.78 |
| 7 | GUIDE | 770581880 | 9.64 | 5277 | 0.029 | -0.094 | 0.151 | 0.236 | 52.016479 | -20.947102 | -1295.88 | 2290.74 |

2.4 Star Slots

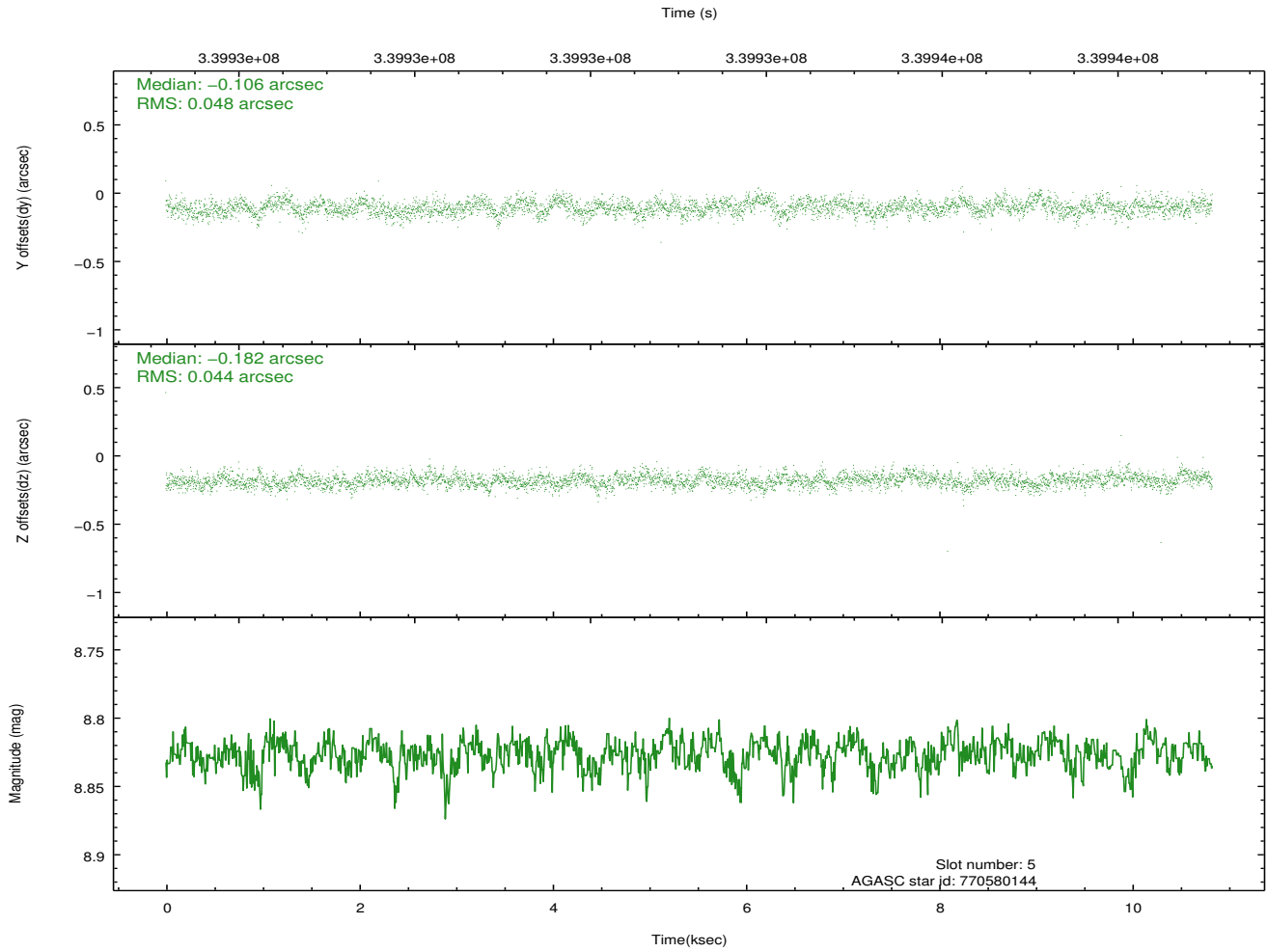
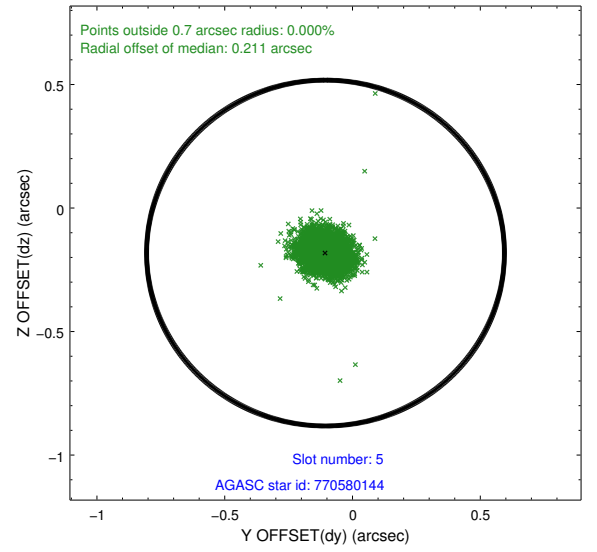
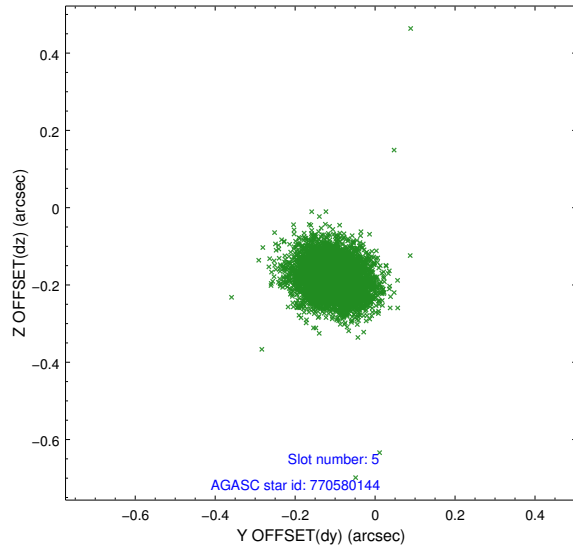
2.4.1 Slot 3



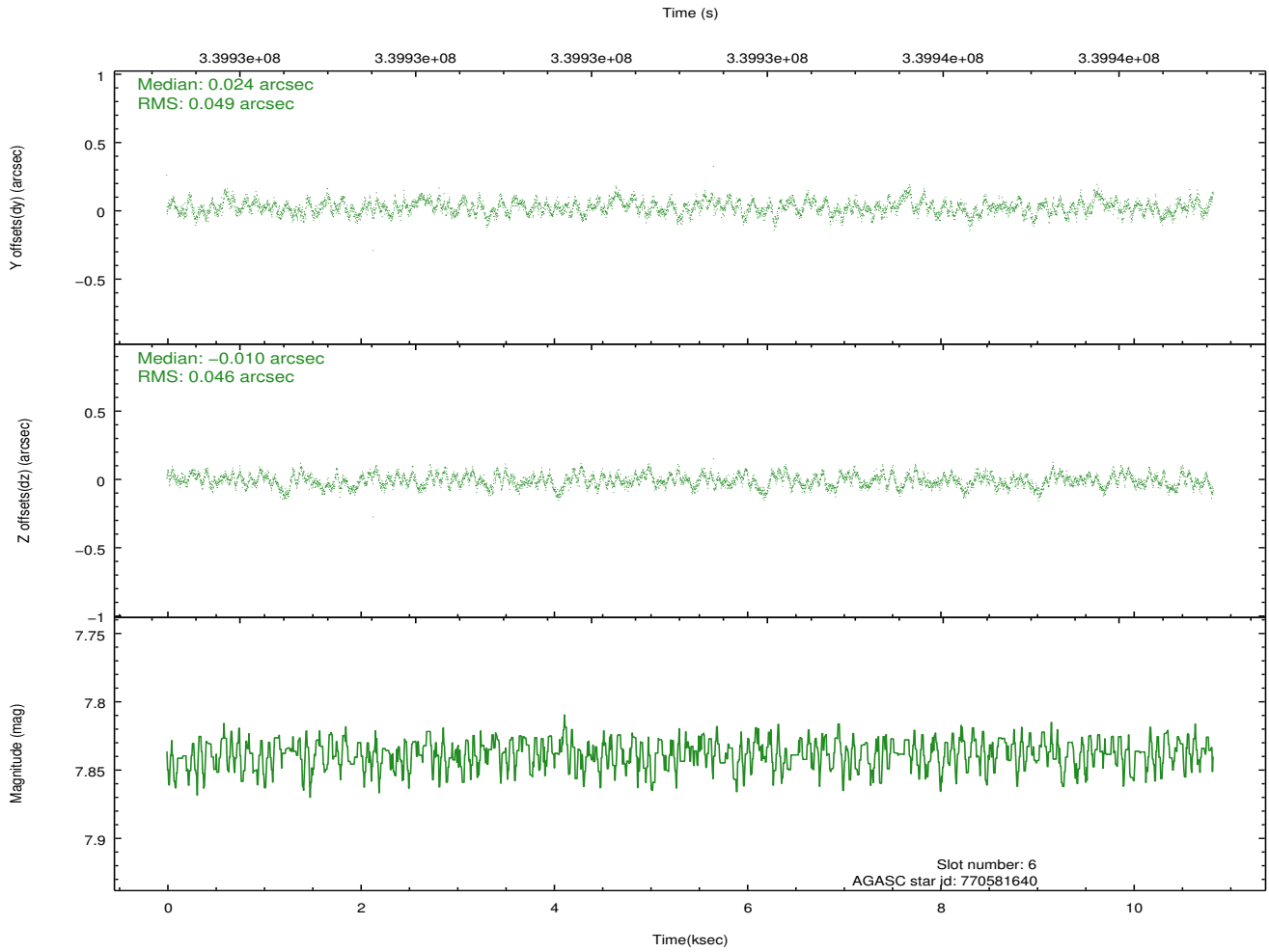
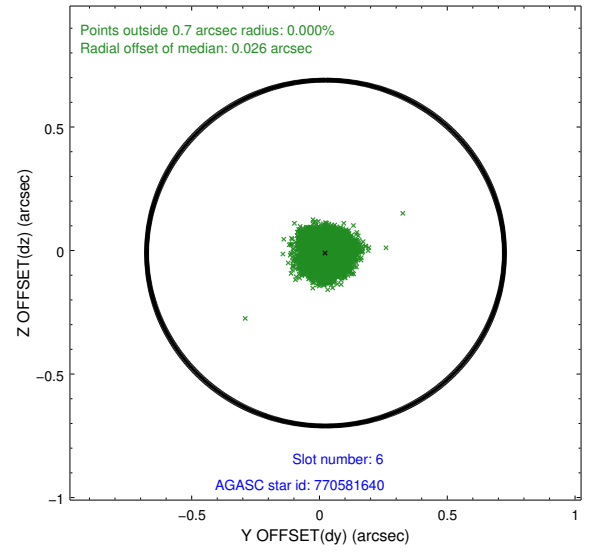
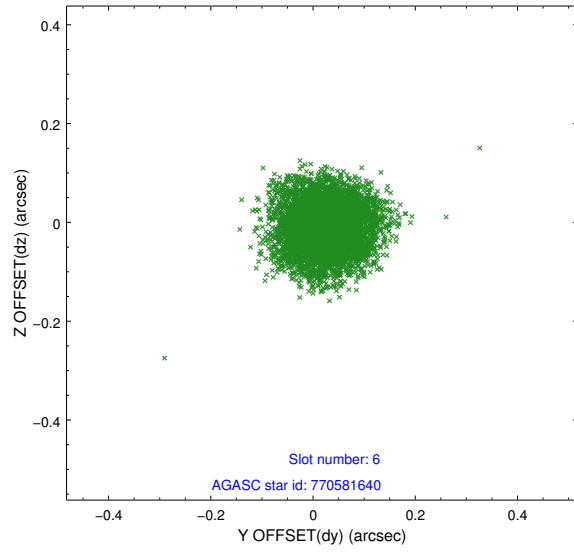
2.4.2 Slot 4



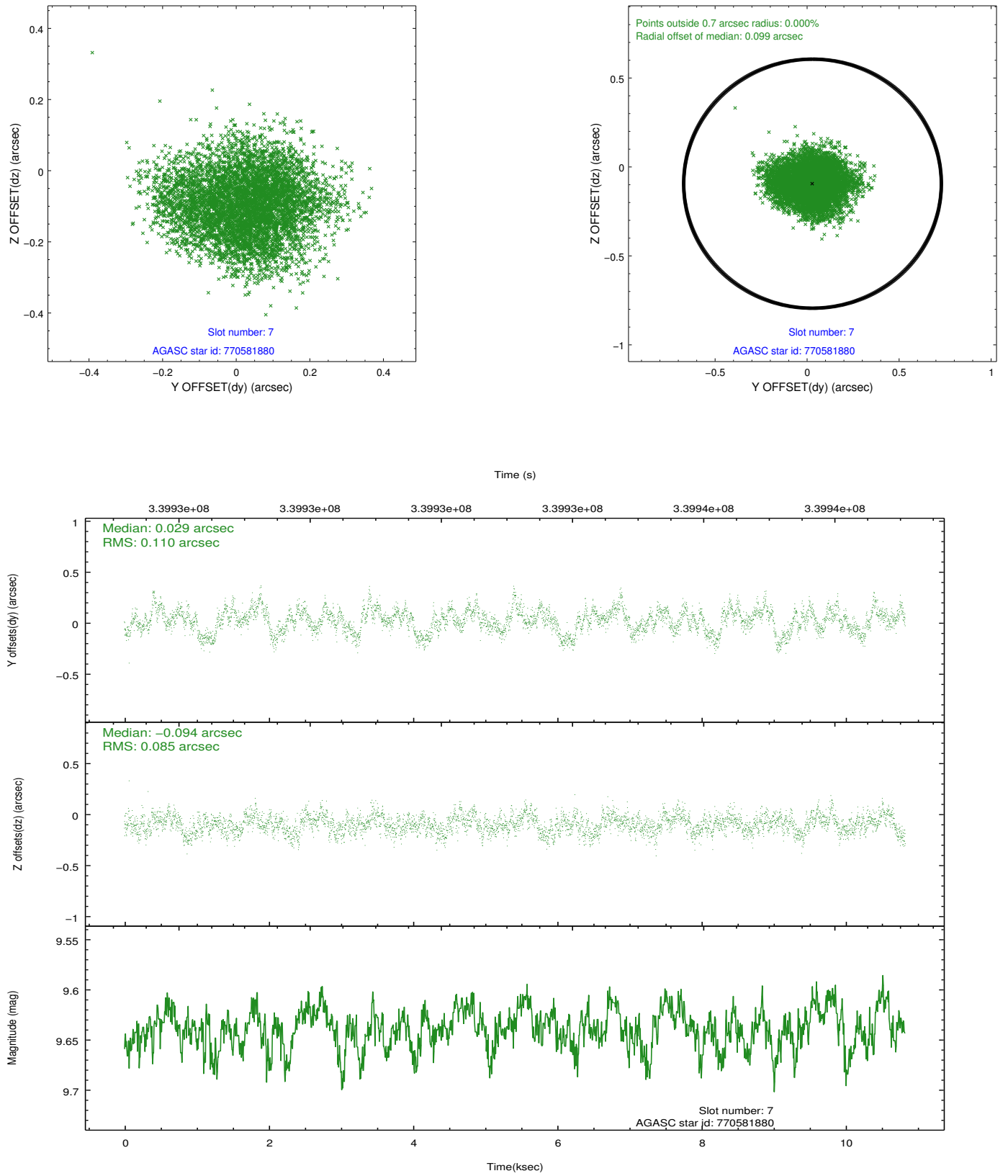
2.4.3 Slot 5



2.4.4 Slot 6

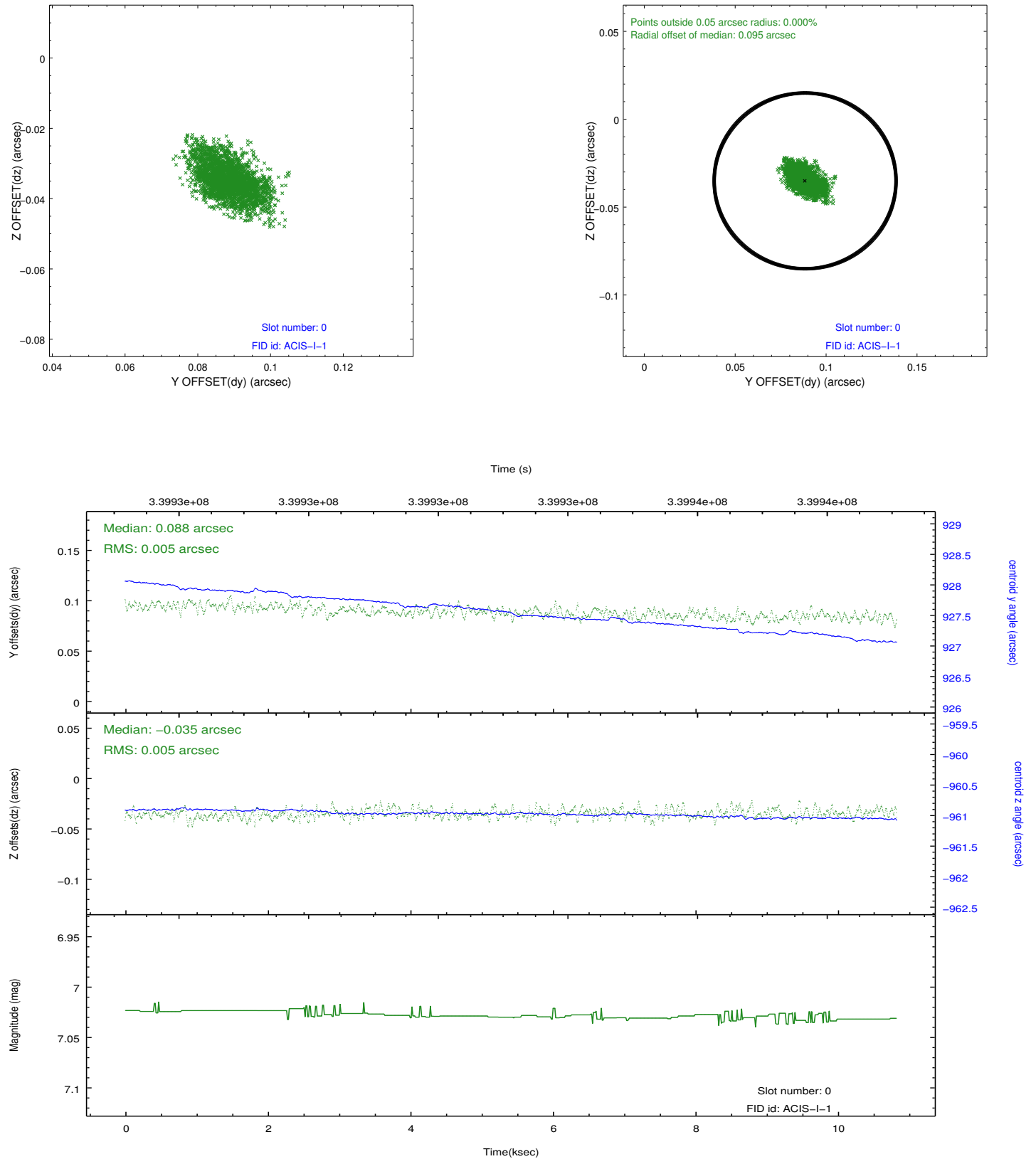


2.4.5 Slot 7

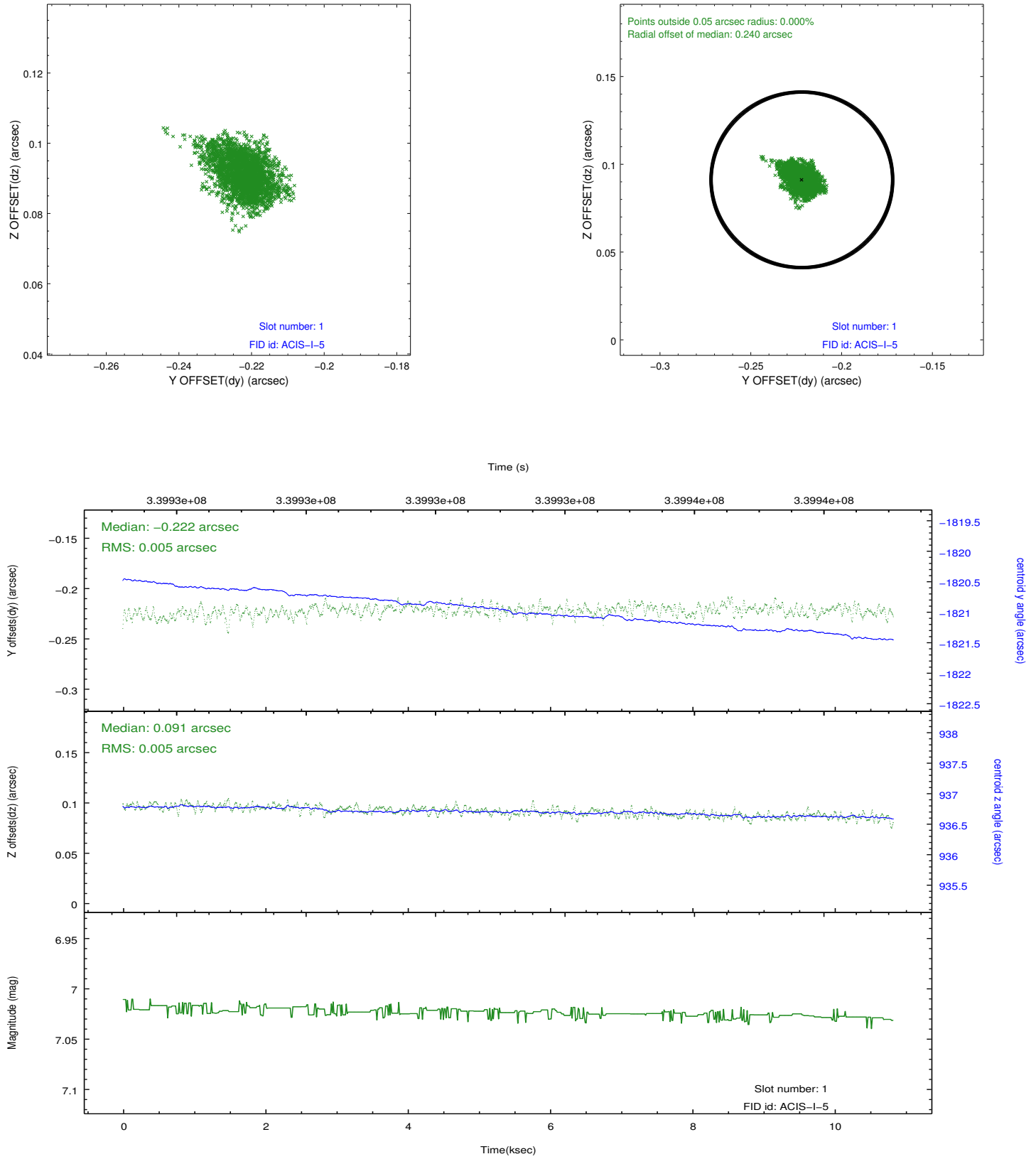


2.5 FID Slots

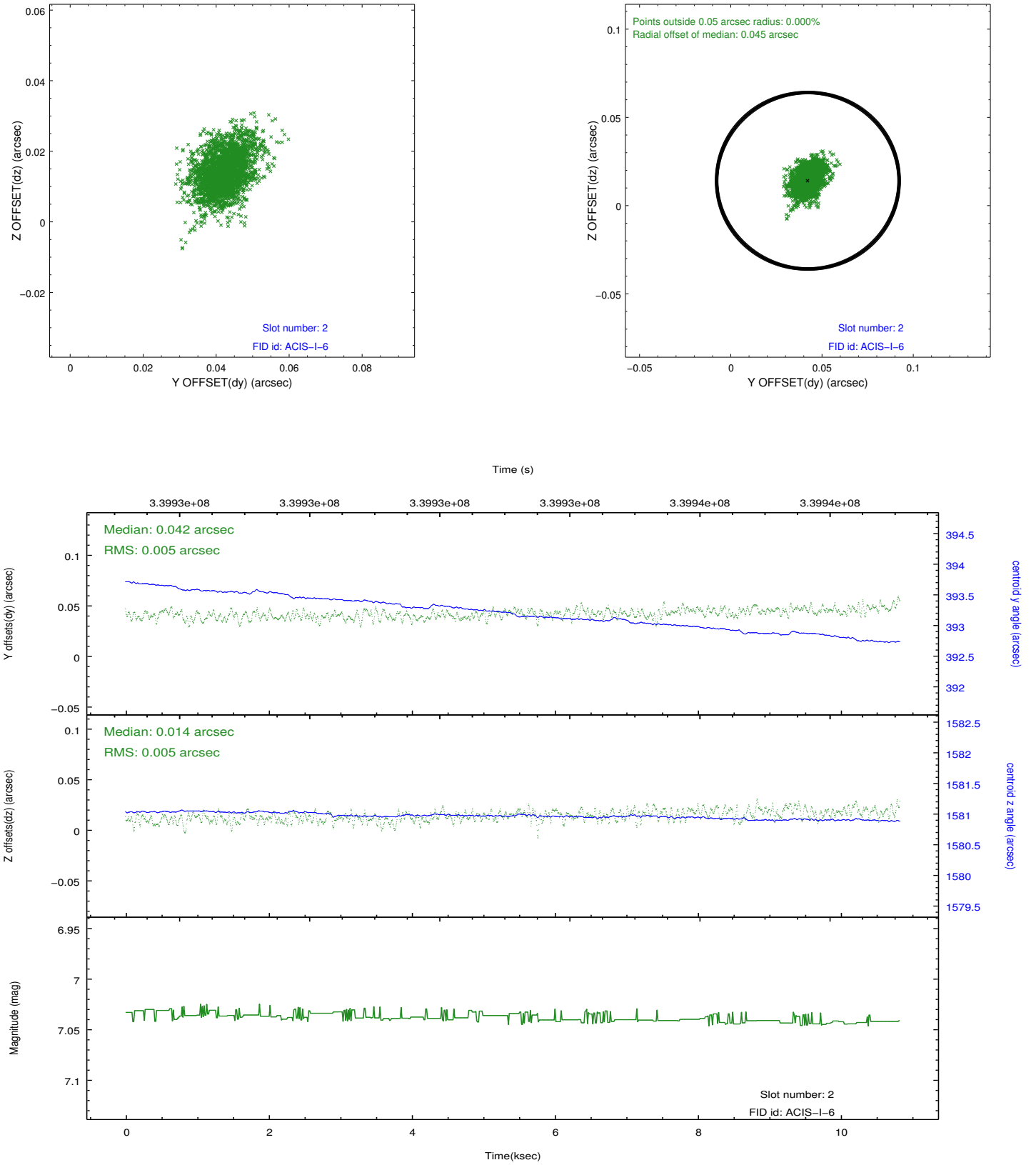
2.5.1 Slot 0



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) | 2012.05.30 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 10.037759 |

A.2 Comments