

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 7198 - L2 Version 002
Chandra X-Ray Center

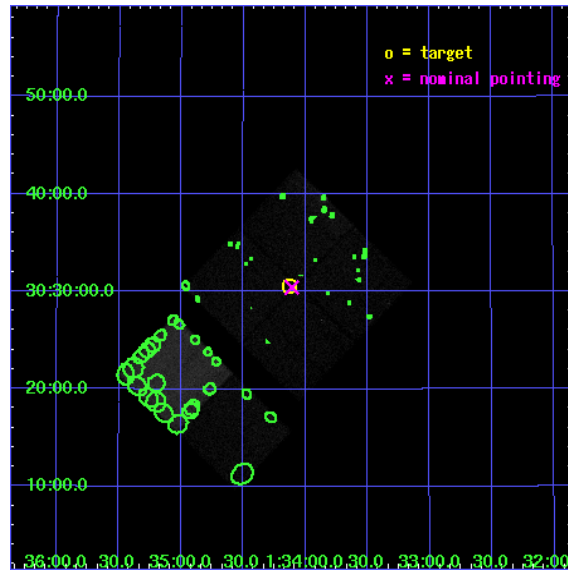
L2 Processing Date : Apr 4 2006

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

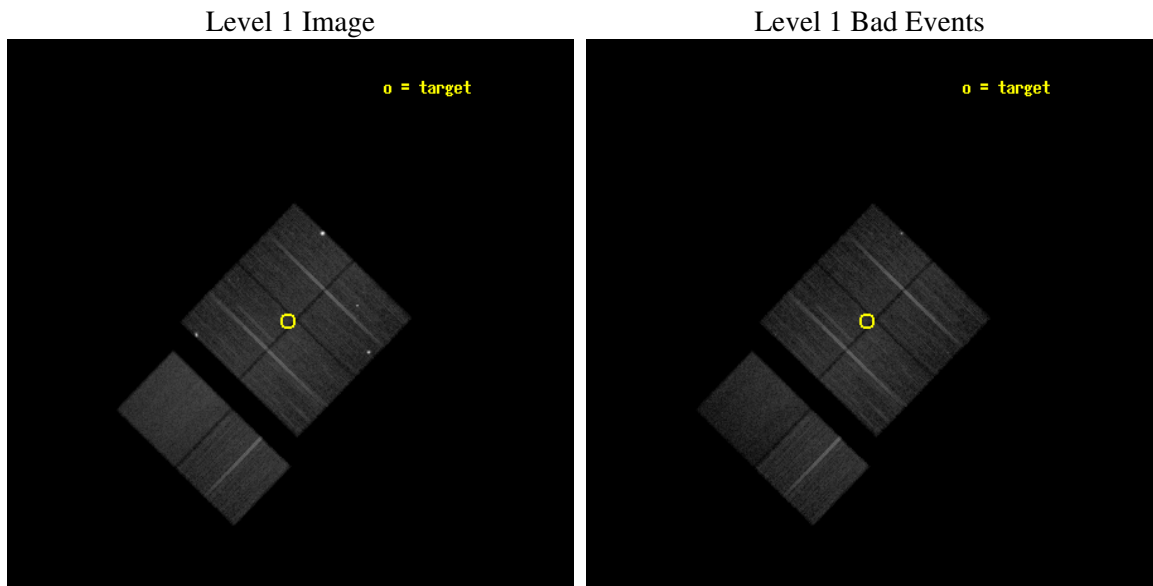
| | |
|----------|---|
| seq_num | 600488 |
| obs_id | 7198 |
| title | The Chandra ACIS Survey of M33 (ChASeM33): A Deep Survey of the Nearest Face-on Spiral Galaxy |
| observer | Dr Manami Sasaki |
| object | M33 Field 6 |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 23.532083 |
| dec_targ | 30.509111 |
| ra_nom | 23.527105428783 |
| dec_nom | 30.507449575406 |
| roll_nom | 224.2112118574 |
| revision | 2 |
| ontime | 22047.958917648 |
| livetime | 21768.774386145 |
| ontime0 | 22047.958927542 |
| ontime1 | 22047.958917648 |
| ontime2 | 22047.958937556 |
| ontime3 | 22047.958917648 |
| ontime6 | 22051.199917853 |
| ontime7 | 22051.199917853 |
| l2events | 152842 |



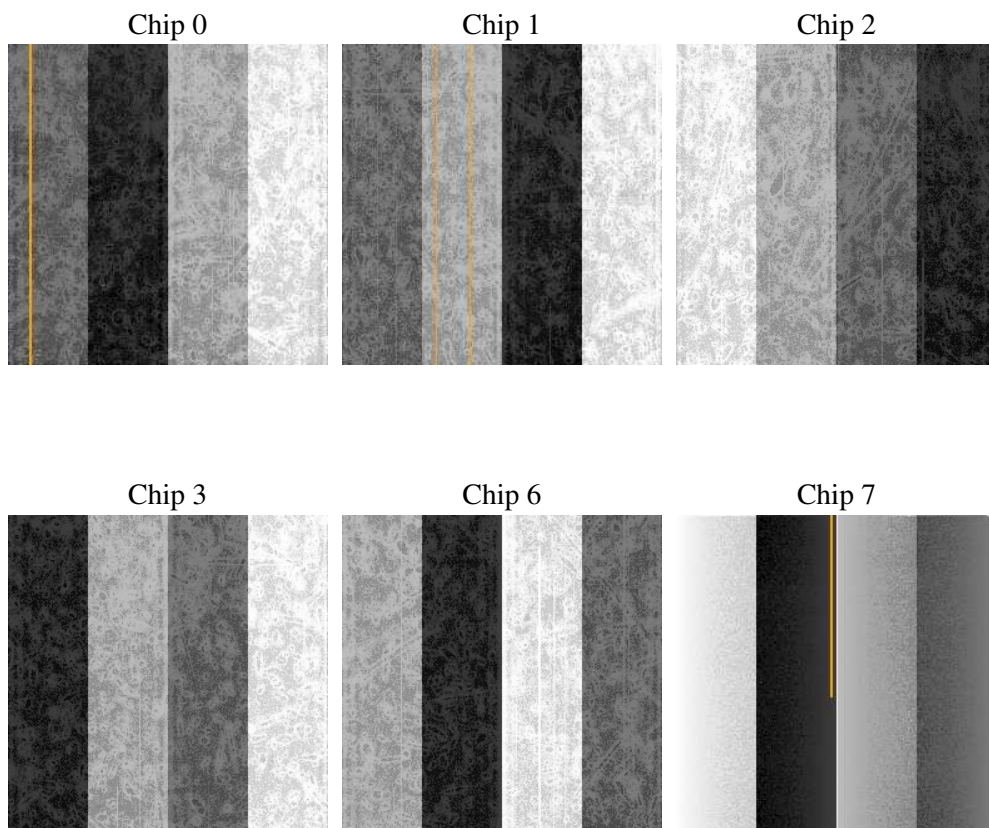
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.7.1 |
| caldbver | 3.2.1 |
| date | 2006-04-04T17:03:14 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 22000.000000 |
| ontime | 22051.837547779 |
| ontime0 | 22051.837577581 |
| ontime1 | 22051.837567687 |
| ontime2 | 22051.837567687 |
| ontime3 | 22051.837547779 |
| ontime6 | 22055.078567892 |
| ontime7 | 22055.078567892 |
| l1events | 907893 |

2.1.4 Events

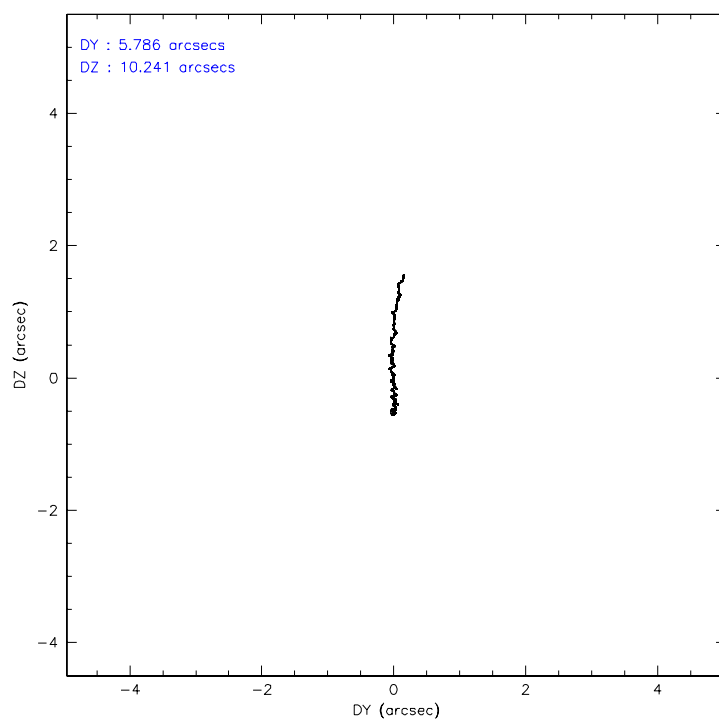
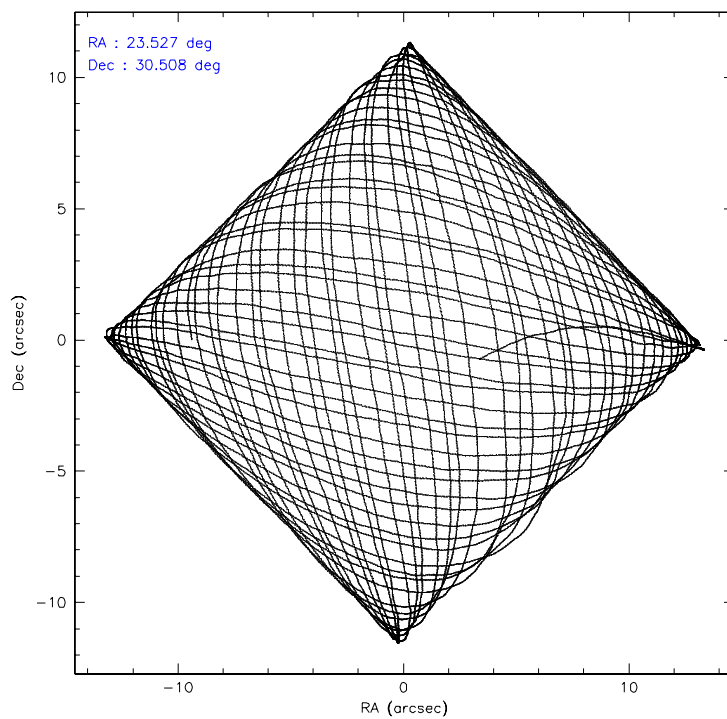
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 141093 | 158930 | 154810 | 142566 | 149926 | 160568 |
| rejected events | 120686 | 119239 | 140926 | 125188 | 135283 | 94339 |
| rejected % | 85% | 75% | 91% | 87% | 90% | 58% |

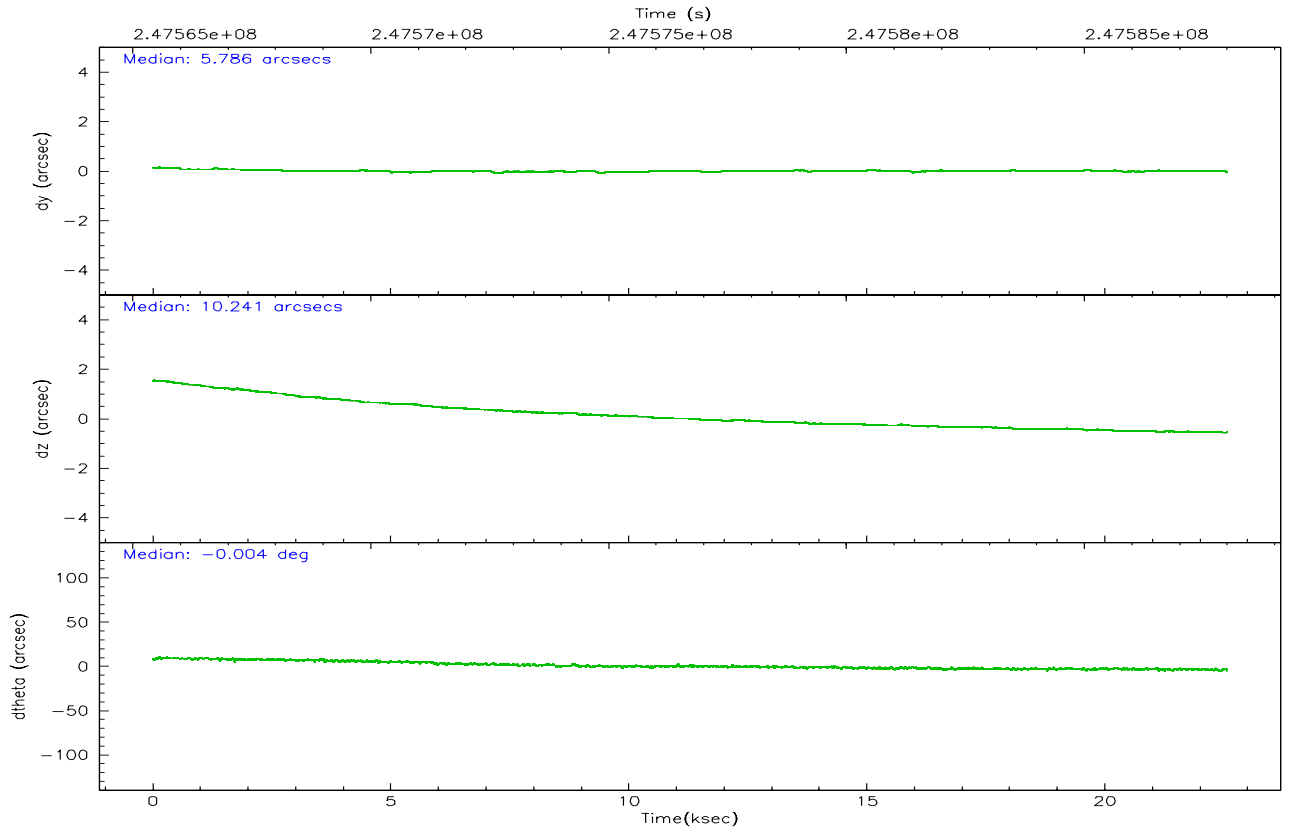
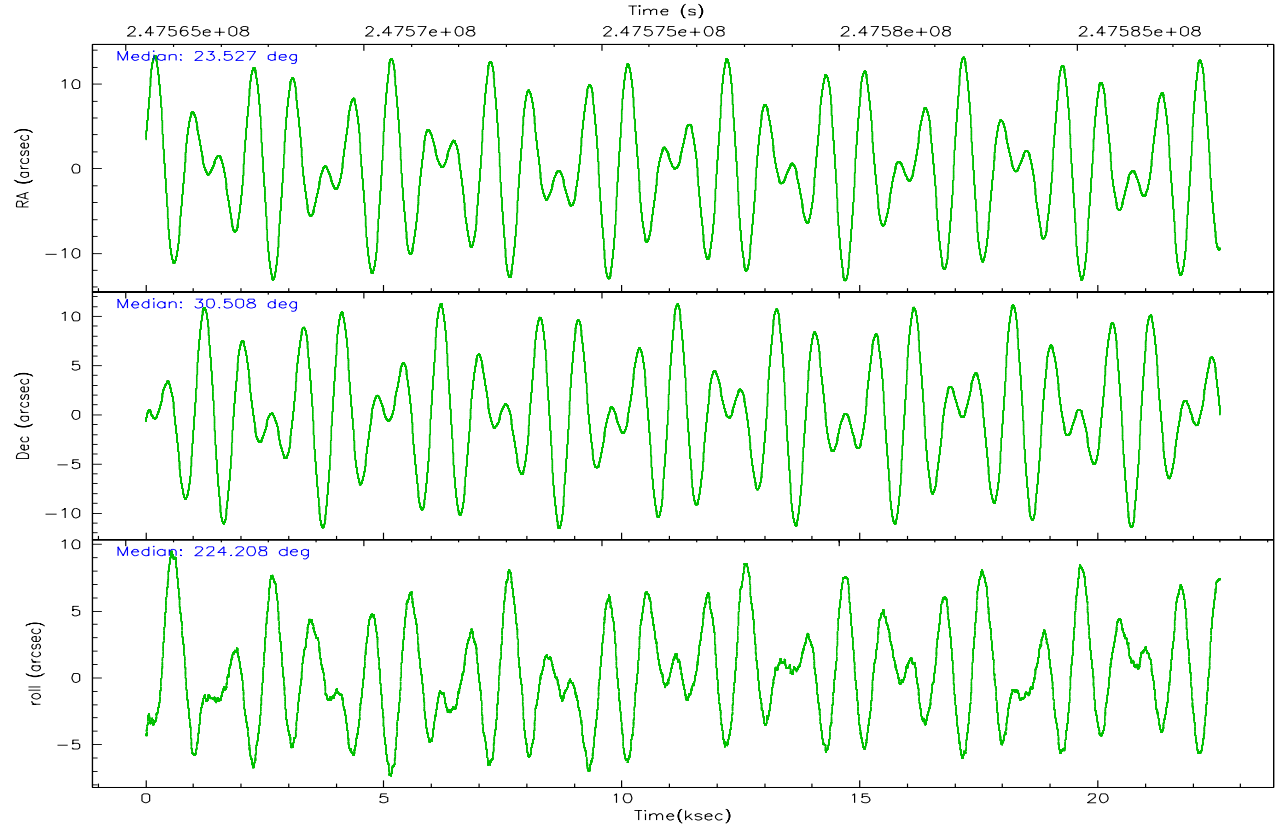
| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|--------|--------|--------|--------|--------|-------|
| grade 0 events | 9943 | 24474 | 5088 | 7765 | 4936 | 3406 |
| | 7% | 15% | 3% | 5% | 3% | 2% |
| grade 1 events | 87 | 495 | 72 | 92 | 85 | 103 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 4080 | 6075 | 3203 | 3346 | 3217 | 16185 |
| | 2% | 3% | 2% | 2% | 2% | 10% |
| grade 3 events | 1809 | 2619 | 1466 | 1730 | 1676 | 3648 |
| | 1% | 1% | 0% | 1% | 1% | 2% |
| grade 4 events | 1725 | 2549 | 1518 | 1697 | 1670 | 3479 |
| | 1% | 1% | 0% | 1% | 1% | 2% |
| grade 5 events | 4952 | 5659 | 4576 | 5751 | 6138 | 11814 |
| | 3% | 3% | 2% | 4% | 4% | 7% |
| grade 6 events | 2854 | 3981 | 2612 | 2842 | 3147 | 39522 |
| | 2% | 2% | 1% | 1% | 2% | 24% |
| grade 7 events | 115643 | 113078 | 136275 | 119343 | 129057 | 82411 |
| | 81% | 71% | 88% | 83% | 86% | 51% |

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 | VFAINT | VFAINT | On-chip summing requested | N | N |
| Observation mode | POINTING | POINTING | Subarray requested | NONE | NONE |
| Pointing RA | 23.535589 | 23.52710542878301 | Alternating exposures requested | N | N |
| Pointing Dec | 30.533805 | 30.50744957540612 | Primary exposure time | 0.000000 | 3.2 |
| Pointing Roll | 223.998215 | 224.2112118573998 | | | |
| SIM focus pos (mm) | -0.782348 | -0.7823481983384333 | | | |
| SIM defocus (mm) | 0 | 1.724155329618782e-08 | | | |
| SIM translation stage pos (mm) | -233.592463 | -233.5874344608287 | | | |
| SIM translation stage offset (mm) | 0 | -0.005018542100998502 | | | |
| Observation start time | 247565997.184000 | 247564796.80212 | | | |
| Observation start date | 2005-11-05T08:18:53 | 2005-11-05T07:59:56 | | | |
| Observation end time | 247587997.184000 | 247588730.04072 | | | |
| Observation end date | 2005-11-05T14:25:33 | 2005-11-05T14:38:50 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect



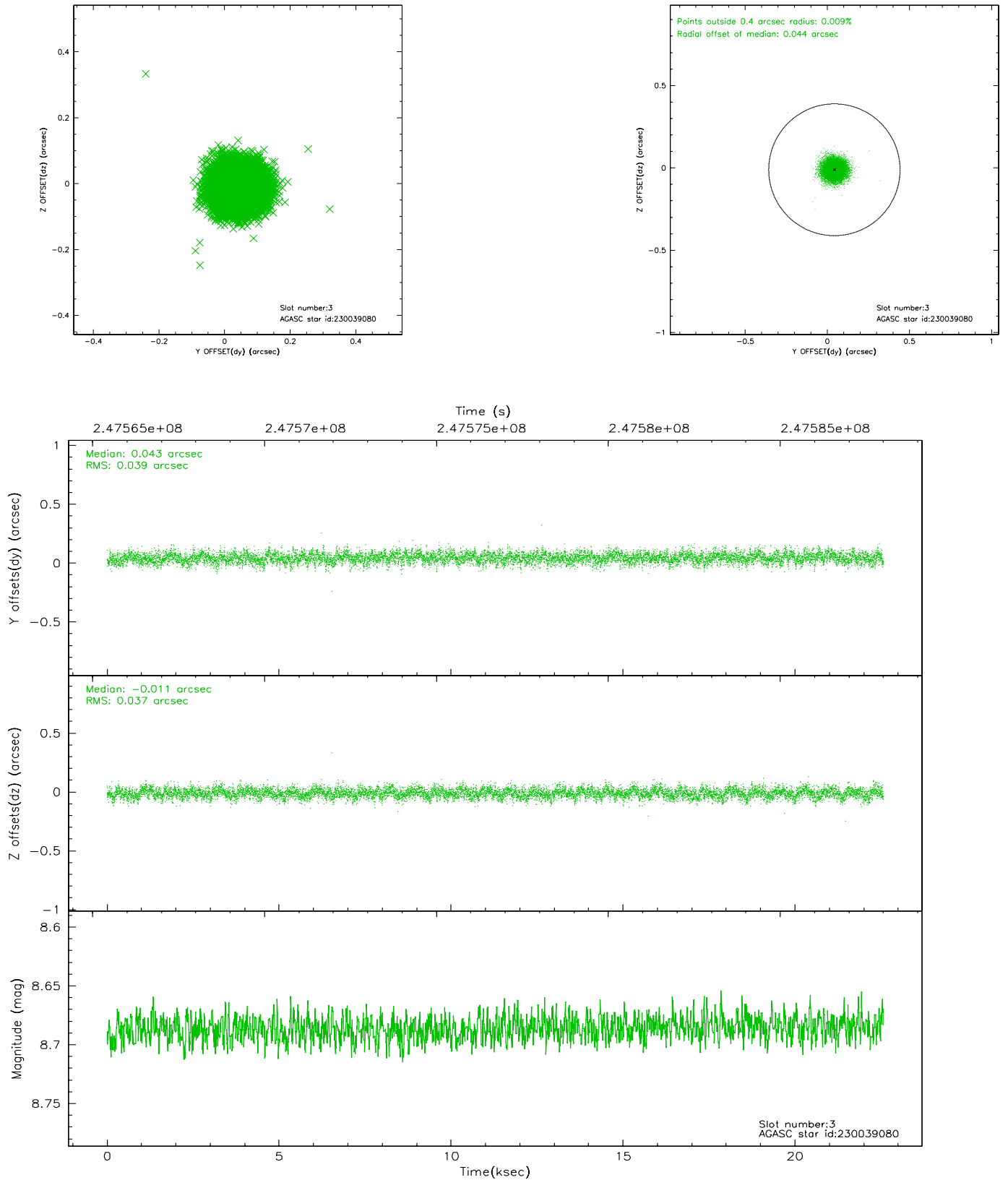


Slot Statistics

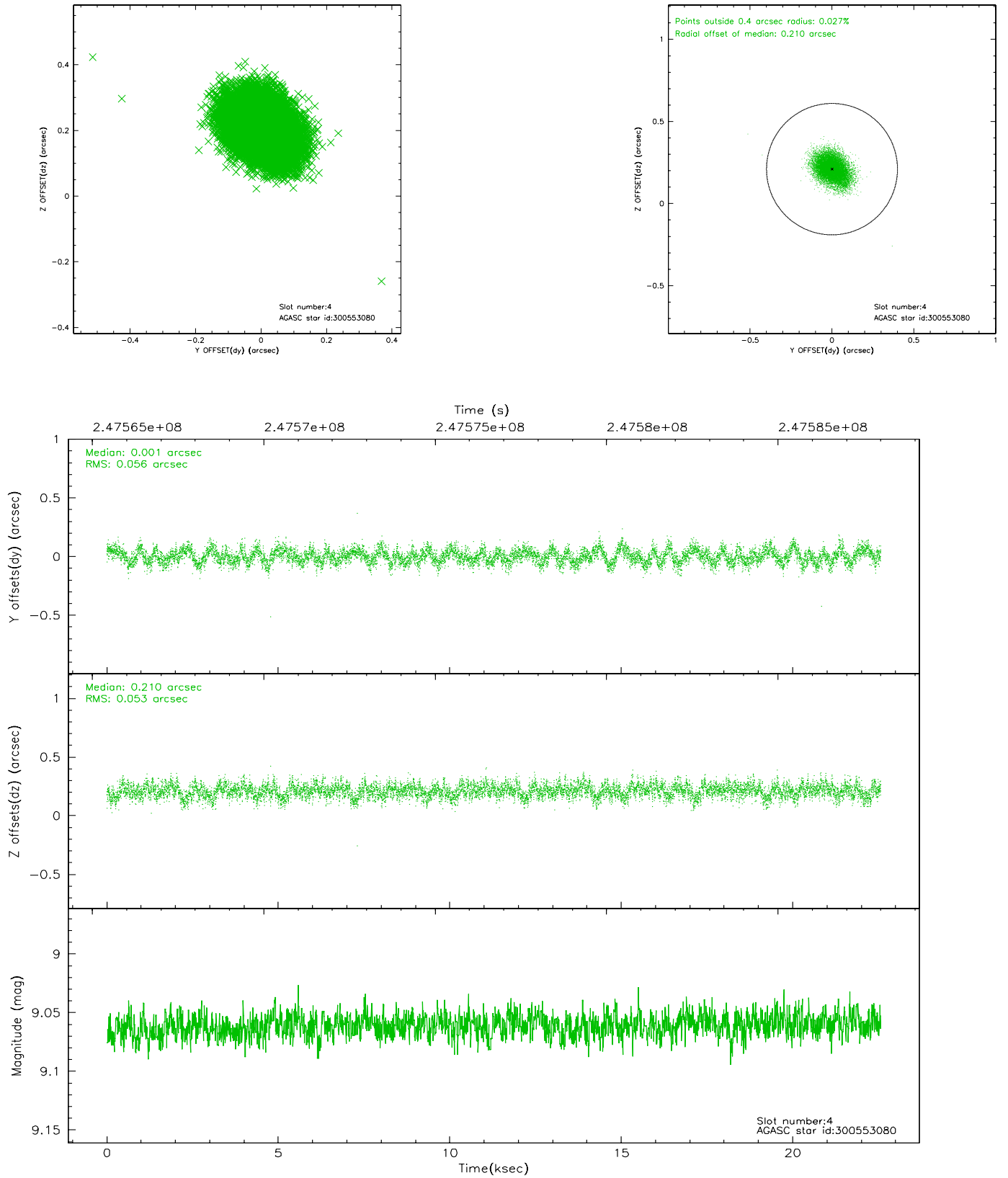
| slot | status | id | mag | n_pts | med_dy | med_dz | dr1 | dr2 | ra | dec | mean_y | mean_z |
|------|--------|-----------|------|-------|--------|--------|-------|-------|-----------|-----------|----------|----------|
| 0 | FID | ACIS-I-1 | 7.25 | 5504 | -0.009 | 0.033 | 0.009 | 0.014 | 0.000000 | 0.000000 | 933.94 | -833.81 |
| 1 | FID | ACIS-I-2 | 7.15 | 5505 | -0.062 | 0.003 | 0.020 | 0.030 | 0.000000 | 0.000000 | -760.11 | -840.42 |
| 2 | FID | ACIS-I-6 | 7.25 | 5505 | -0.020 | 0.033 | 0.021 | 0.030 | 0.000000 | 0.000000 | 399.42 | 1707.91 |
| 3 | GUIDE | 230039080 | 8.69 | 11000 | 0.043 | -0.011 | 0.057 | 0.091 | 23.320866 | 29.887774 | 2097.57 | 1207.52 |
| 4 | GUIDE | 300553080 | 9.06 | 11006 | 0.001 | 0.210 | 0.082 | 0.134 | 23.777101 | 30.773227 | -1136.11 | -101.13 |
| 5 | GUIDE | 300559160 | 9.40 | 10985 | 0.026 | -0.102 | 0.101 | 0.169 | 24.161026 | 30.632205 | -1643.26 | 1087.21 |
| 6 | GUIDE | 300559832 | 7.87 | 11010 | -0.020 | -0.101 | 0.057 | 0.092 | 24.407732 | 30.552794 | -1999.70 | 1821.70 |
| 7 | GUIDE | 300559960 | 7.88 | 11005 | -0.050 | 0.010 | 0.063 | 0.099 | 22.944463 | 30.624765 | 1086.57 | -1510.09 |

2.4 Star Slots

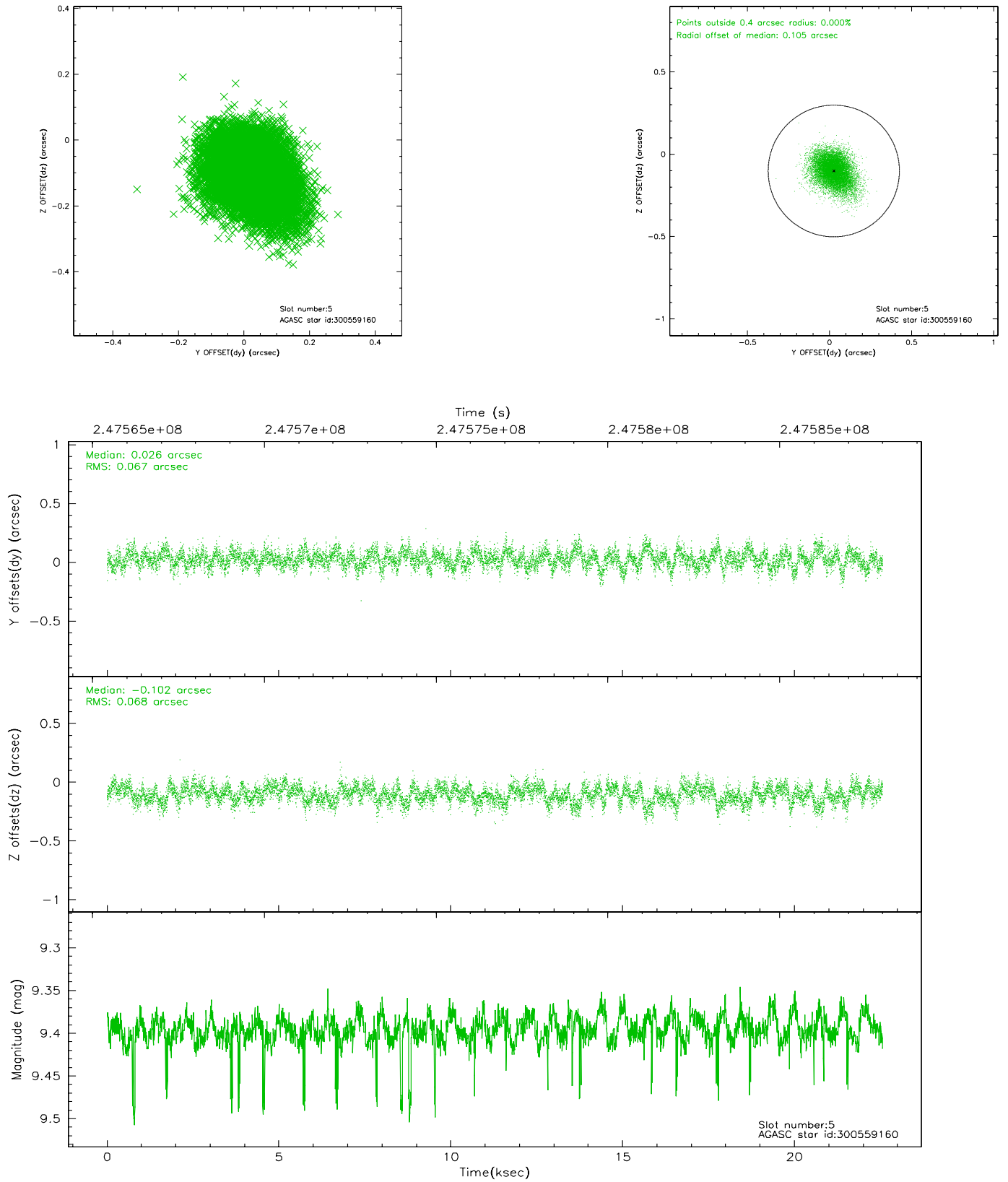
2.4.1 Slot 3



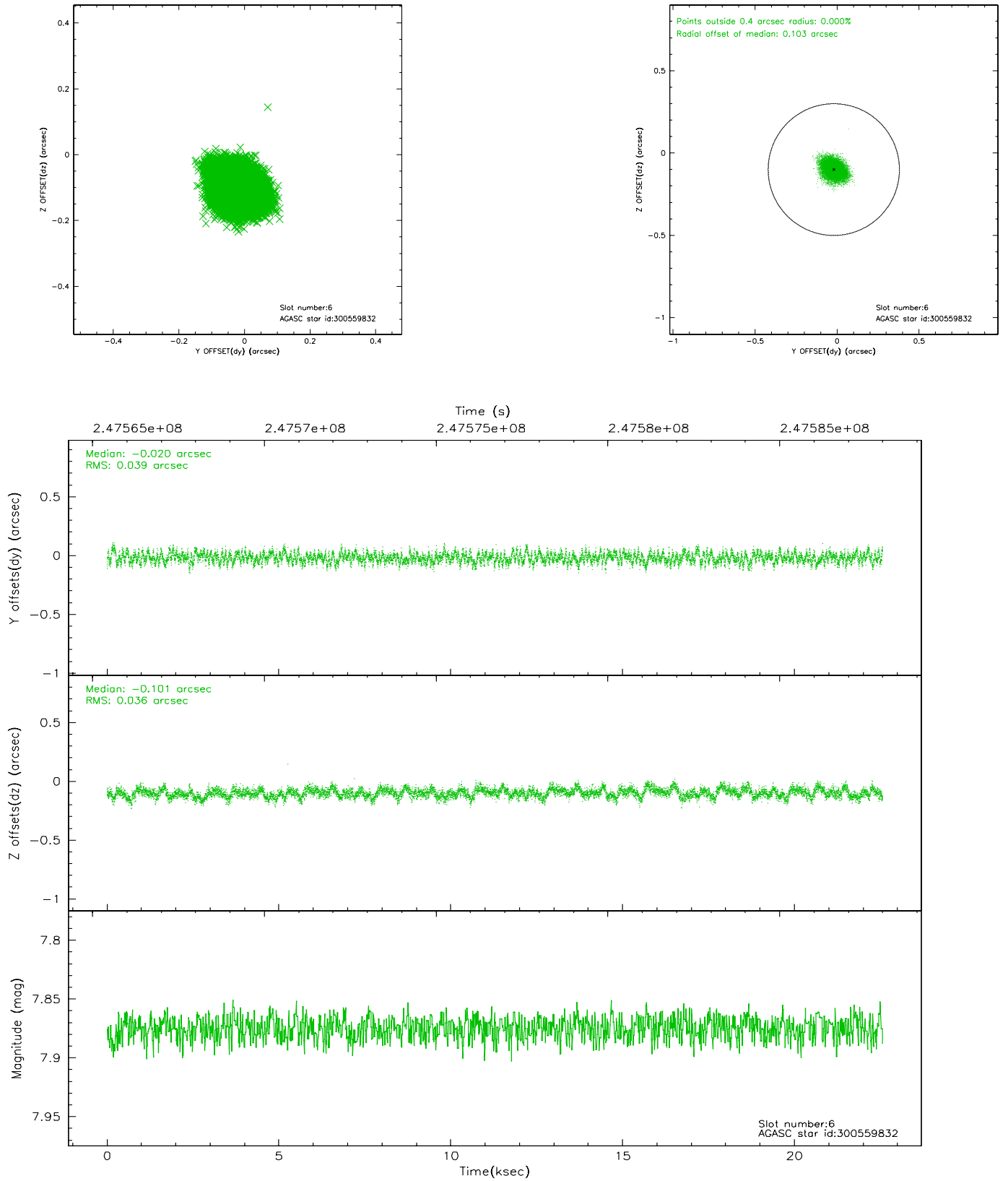
2.4.2 Slot 4



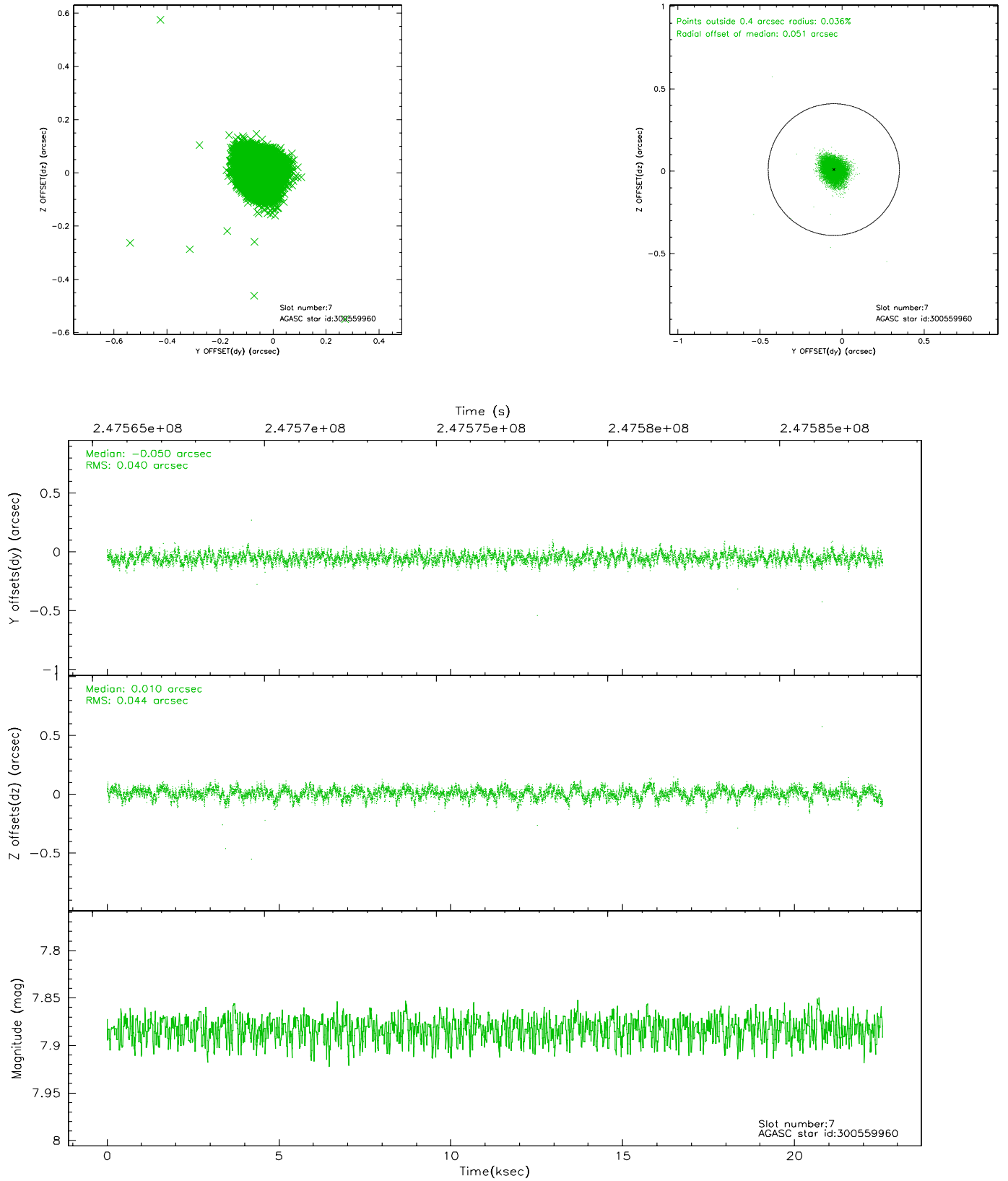
2.4.3 Slot 5



2.4.4 Slot 6

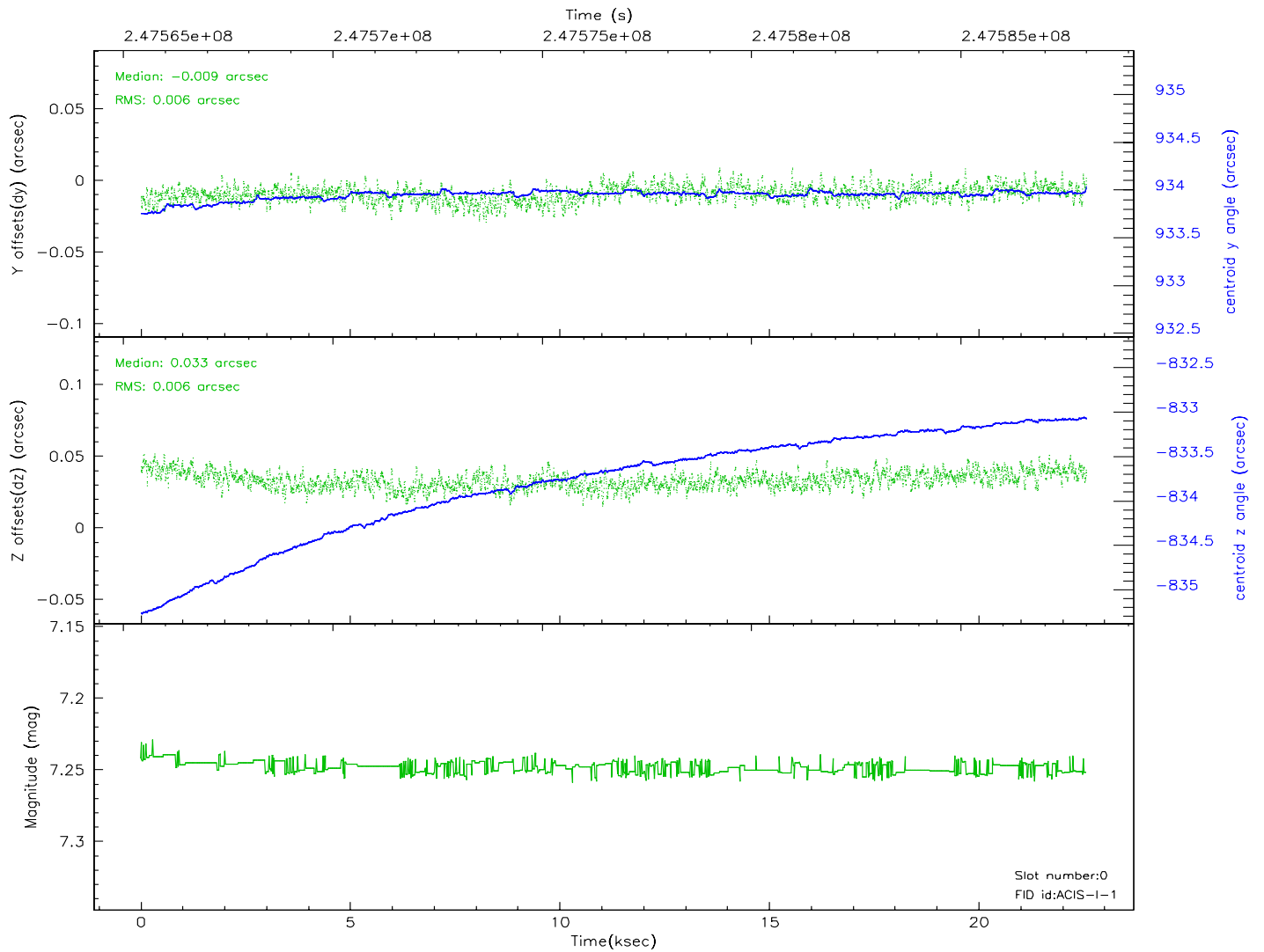
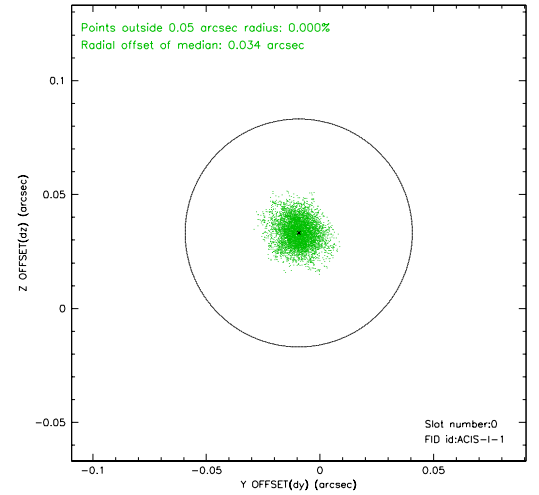
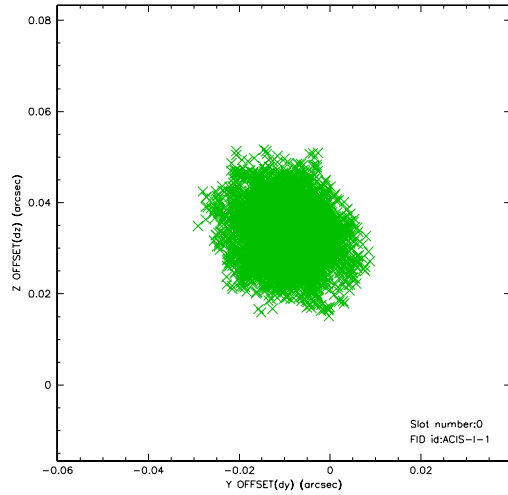


2.4.5 Slot 7

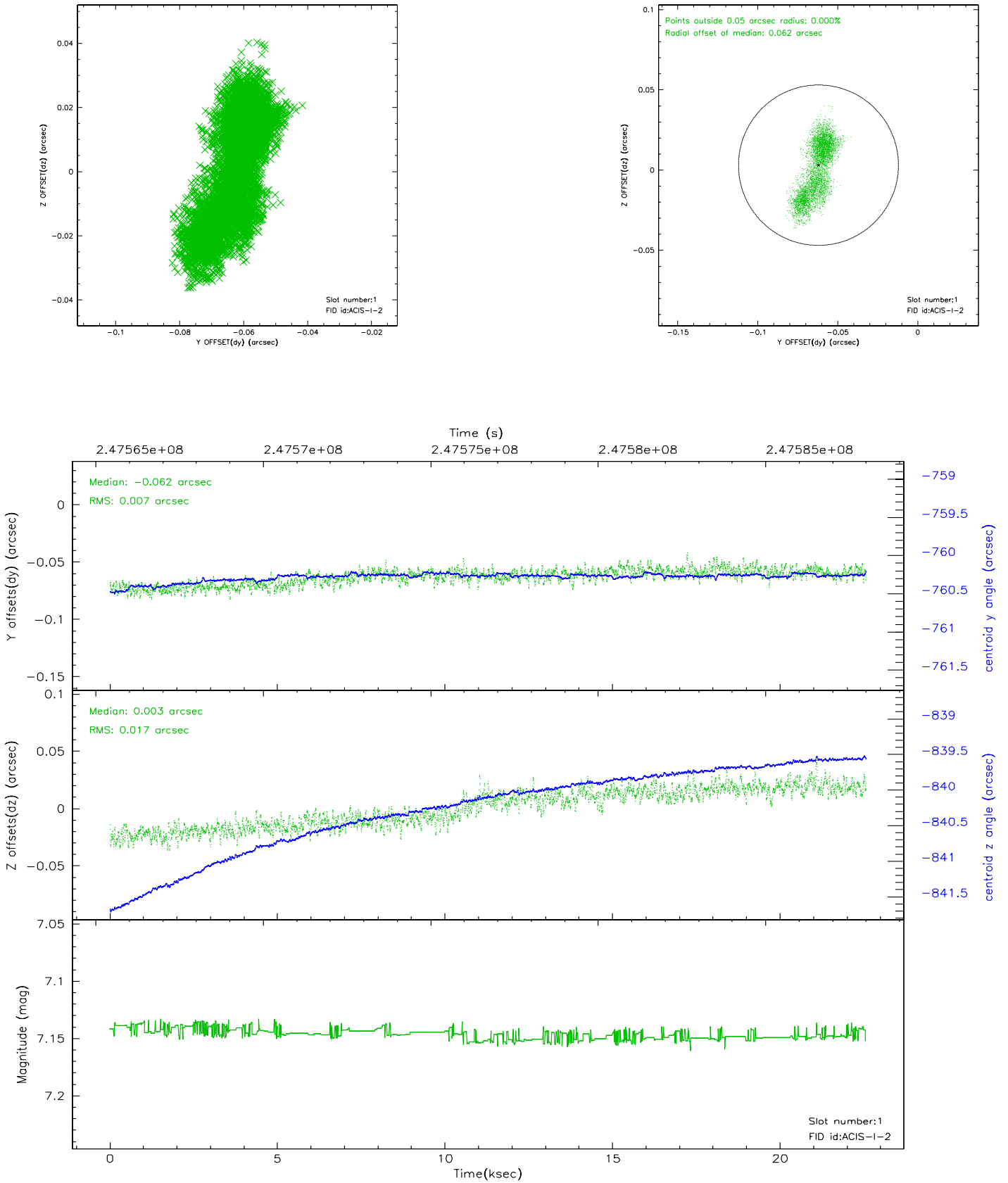


2.5 FID Slots

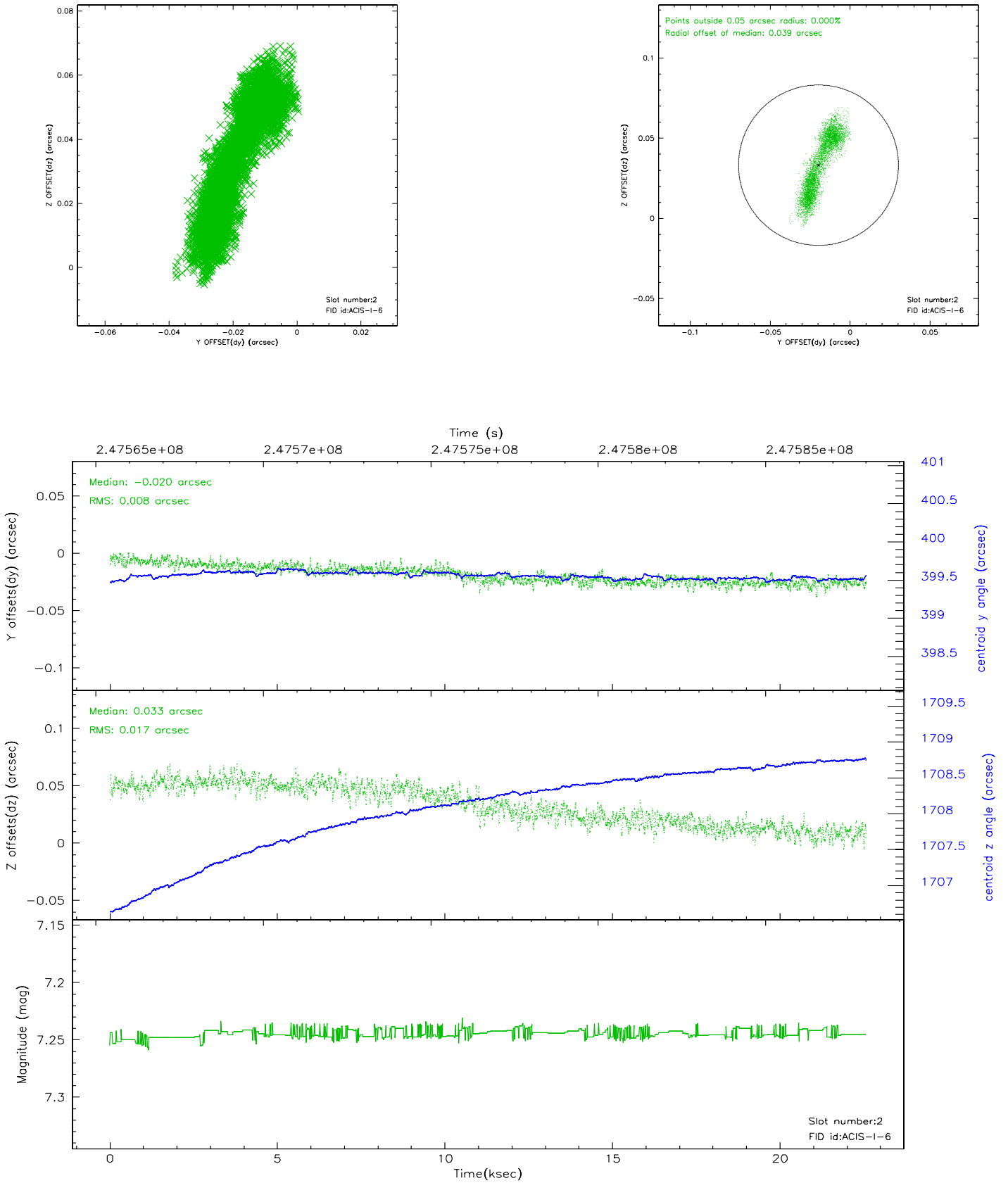
2.5.1 Slot 0



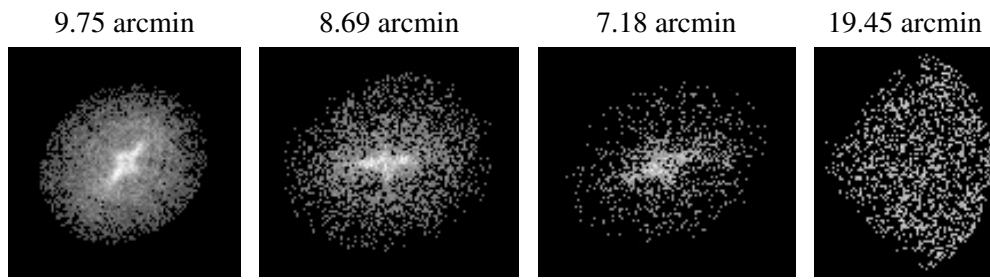
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.04.04 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 22.04795 |

A.2 Comments

Roll preference met.