

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 847 - L2 Version _e1
Chandra X-Ray Center

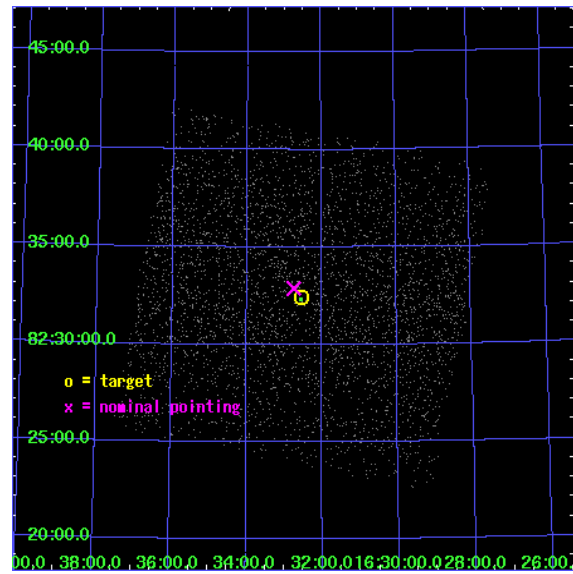
L2 Processing Date : Jun 6 2007

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1 Front

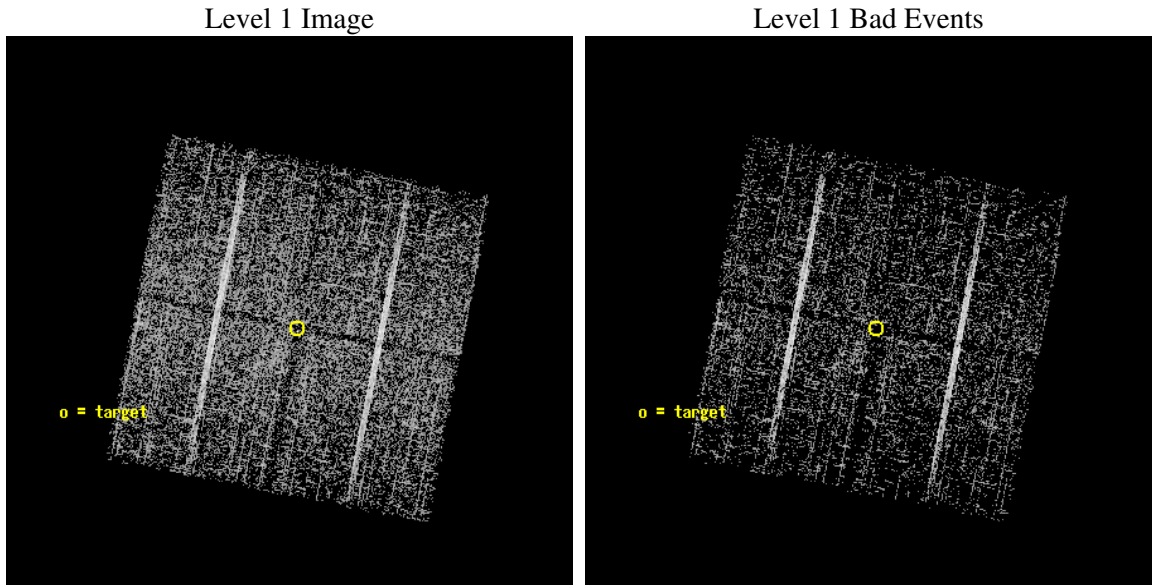
seq_num	700152
obs_id	847
title	THE X-RAY JET AND HALO OF NGC 6251
observer	DR. JUERGEN KERP
object	NGC 6251
dtcycle	0
cycle	P
ra_targ	248.1325
dec_targ	82.541111
ra_nom	248.1858763342
dec_nom	82.548031515696
roll_nom	281.06767026135
revision	3
ontime	6378.4879620075
livetime	383.19363447443
ontime0	6378.3648420125
ontime1	6378.4058820009
ontime2	6378.4469220042
ontime3	6378.4879620075
l2events	3819



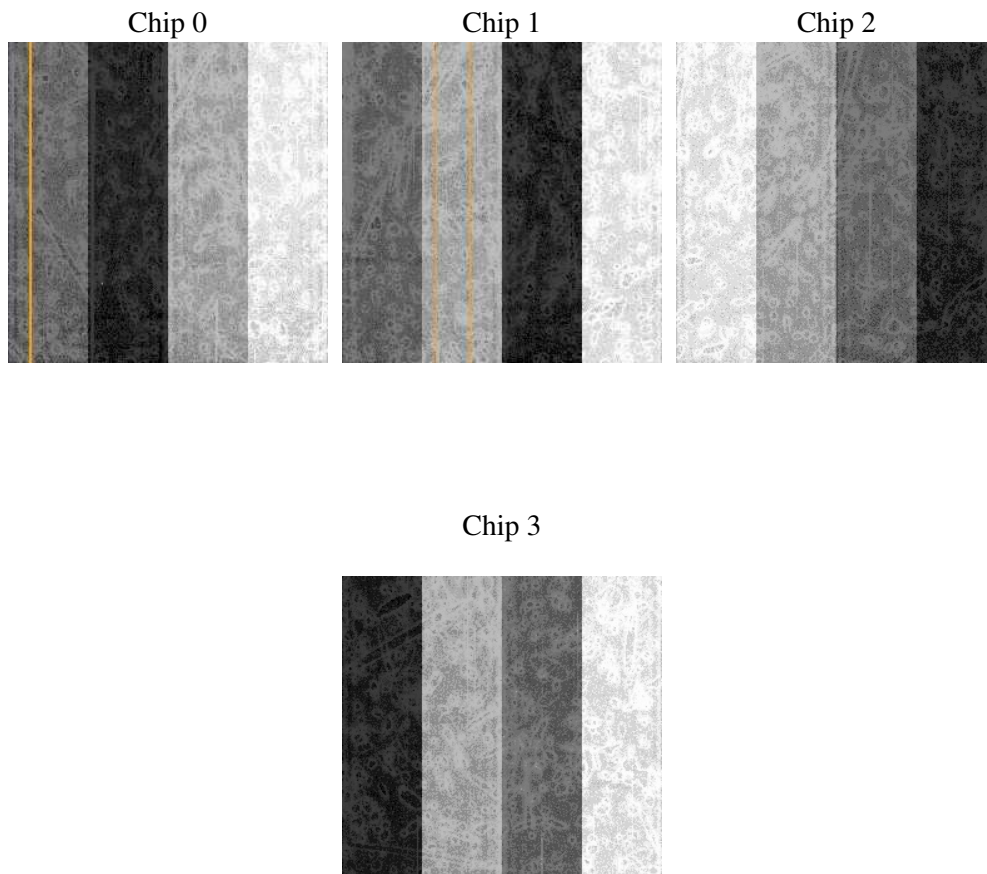
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-07T00:07:56
revision	3

sched_exp_time	37325.000000
ontime	6378.4879620075
ontime0	6378.3648420125
ontime1	6378.4058820009
ontime2	6378.4469220042
ontime3	6378.4879620075
l1events	80763

2.1.4 Events

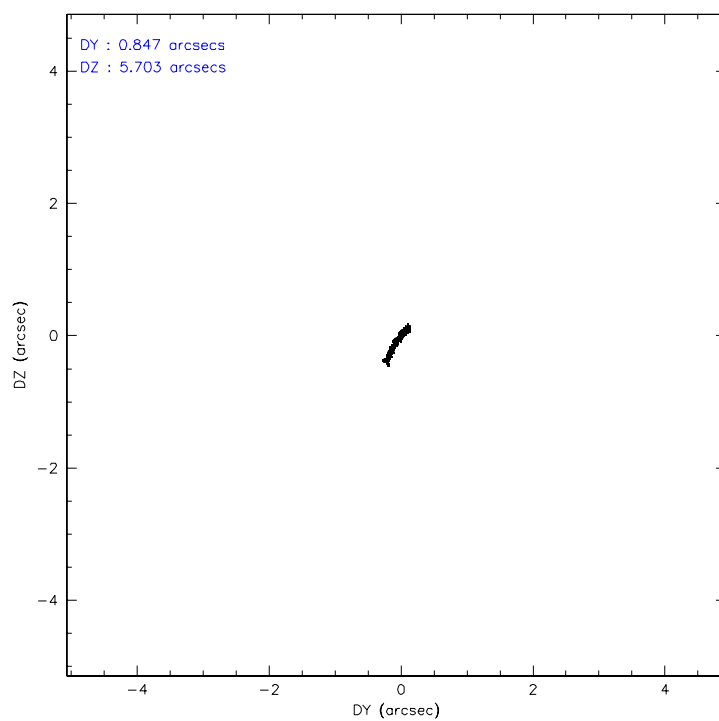
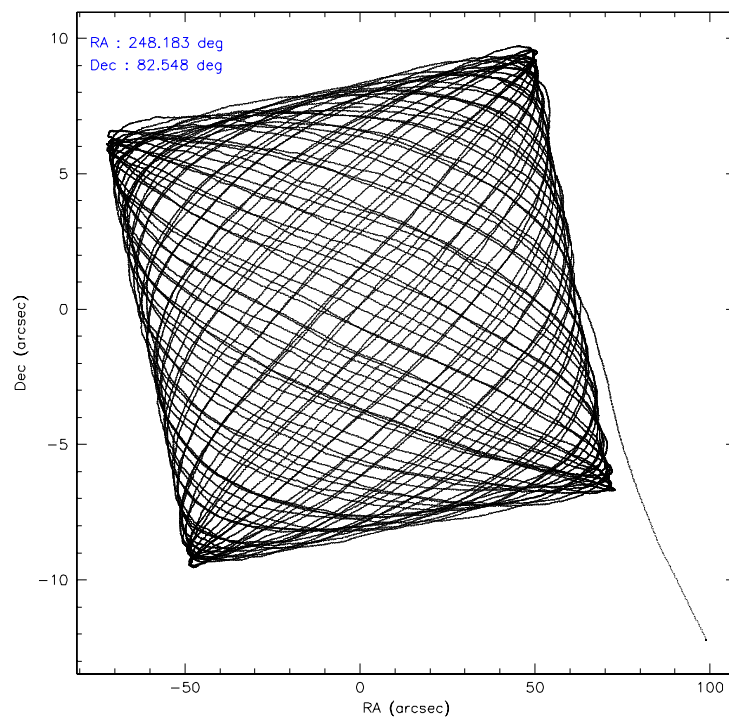
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	18969	19036	21822	20936
rejected events	17697	17623	20574	19662
rejected %	93%	92%	94%	93%

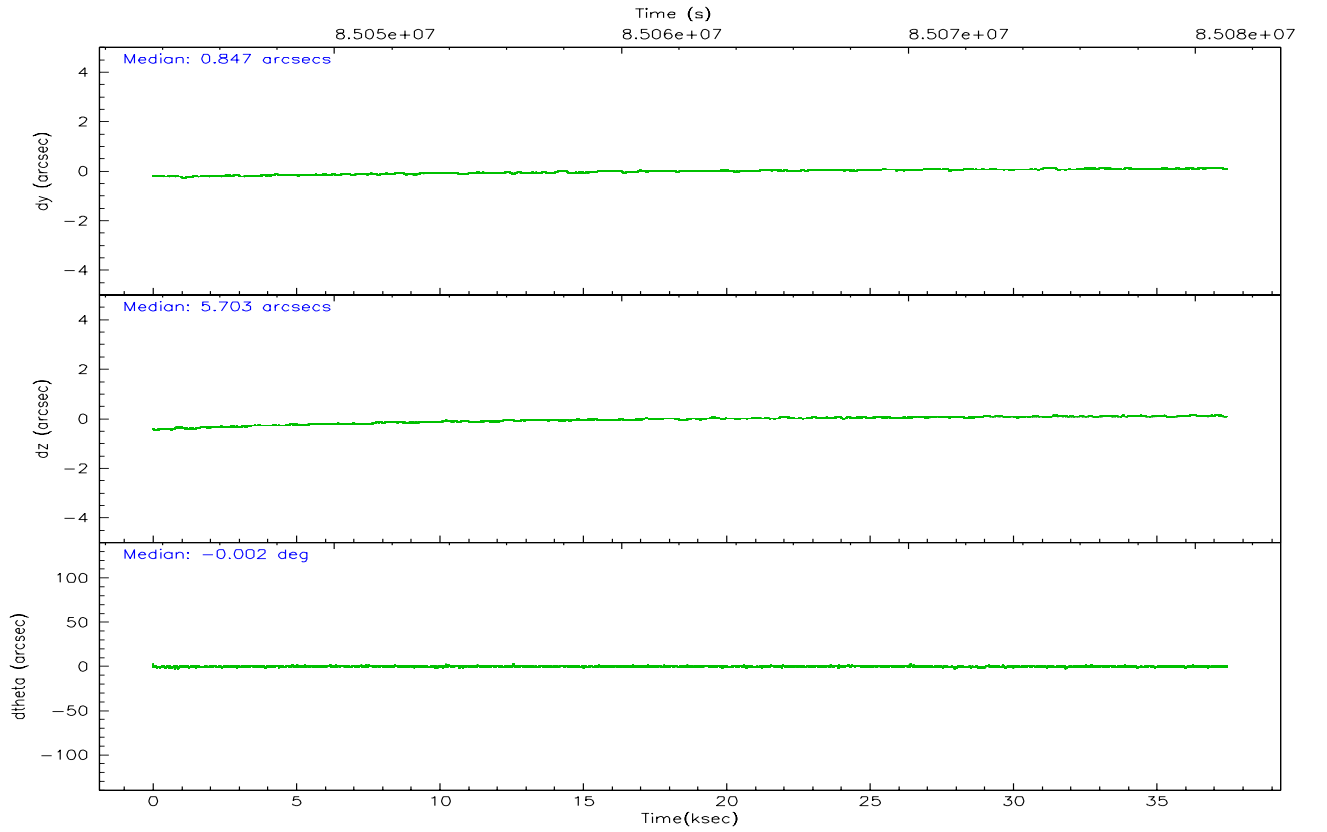
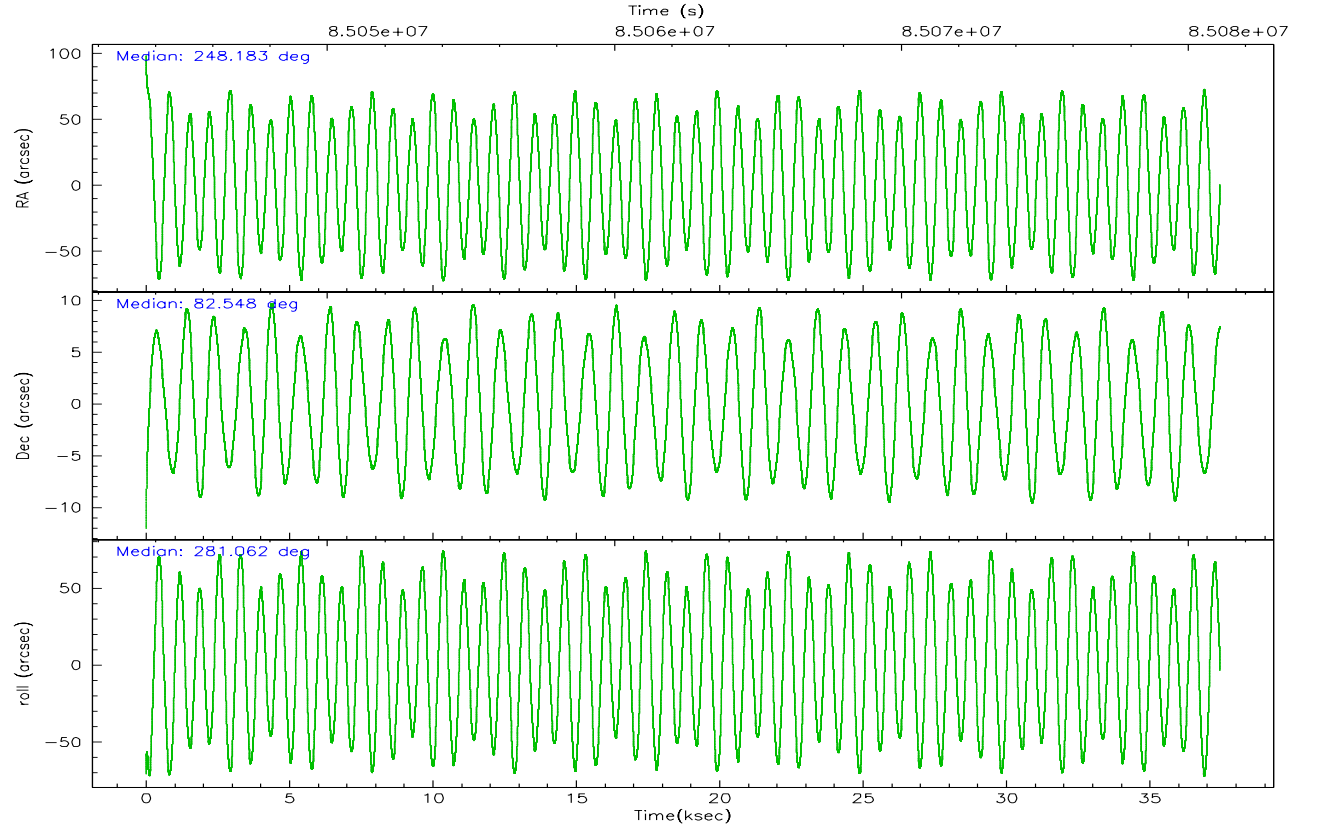
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	351	371	361	332
	1%	1%	1%	1%
grade 1 events	3	1	3	8
	0%	0%	0%	0%
grade 2 events	293	266	279	293
	1%	1%	1%	1%
grade 3 events	216	253	215	230
	1%	1%	0%	1%
grade 4 events	213	261	191	207
	1%	1%	0%	0%
grade 5 events	453	476	431	475
	2%	2%	1%	2%
grade 6 events	243	302	244	250
	1%	1%	1%	1%
grade 7 events	17197	17106	20098	19141
	90%	89%	92%	91%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	248.046511	248.1858763341953	Subarray requested	NONE	NONE
Pointing Dec	82.568845	82.54803151569588	Alternating exposures requested	Y	Y
Pointing Roll	280.997143	281.067670261354	Primary exposure time	0.200000	0.2
SIM focus pos (mm)	-0.782348	-0.7809083437167272	Secondary exposure time	3.200000	3.2
SIM defocus (mm)	0	0.001439871863259334	Duty cycle	5	5
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	85043795.184000	85042265.947469			
Observation start date	2000-09-11T07:15:31	2000-09-11T06:51:05			
Observation end time	85081120.184000	85082013.91146301			
Observation end date	2000-09-11T17:37:36	2000-09-11T17:53:33			
Read mode	TIMED	TIMED			

2.3 Aspect



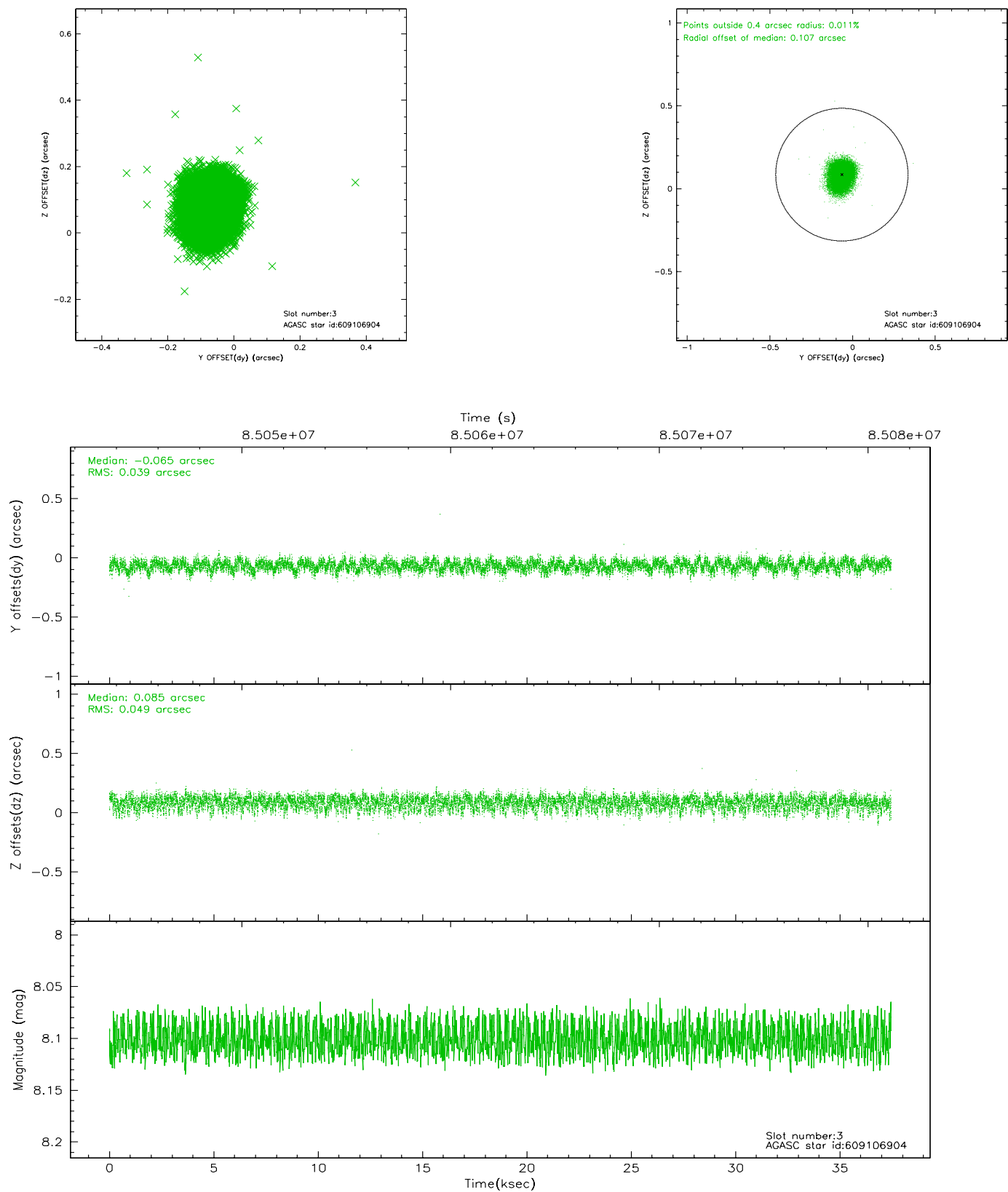


Slot Statistics

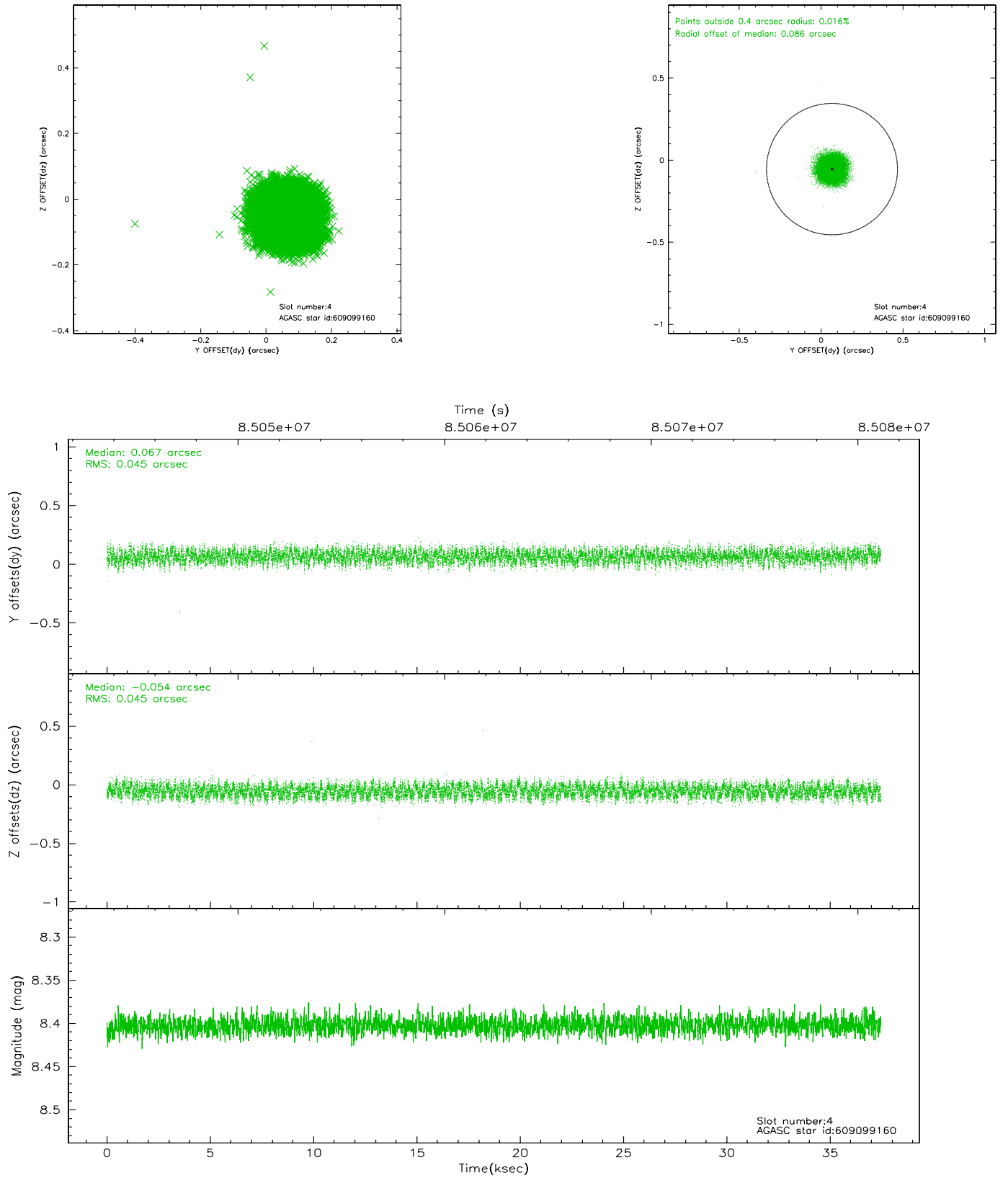
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	9132	-0.019	-0.023	0.010	0.017	0.000000	0.000000	-755.17	-835.40
1	FID	ACIS-I-4	7.18	9133	-0.096	0.027	0.006	0.016	0.000000	0.000000	2158.80	1070.81
2	FID	ACIS-I-5	7.23	9133	0.015	0.065	0.010	0.018	0.000000	0.000000	-1808.93	1068.72
3	GUIDE	609106904	8.10	18265	-0.065	0.085	0.067	0.106	243.316021	82.631901	-725.82	-2080.11
4	GUIDE	609099160	8.40	18266	0.067	-0.054	0.069	0.105	251.337963	83.185048	-1948.38	1811.00
5	GUIDE	609106008	9.42	18112	0.021	-0.136	0.107	0.175	252.491283	83.185526	-1888.90	2300.20
6	GUIDE	600186216	9.26	18253	-0.103	0.090	0.115	0.176	246.671823	81.887151	2268.32	-1150.59
7	GUIDE	609102344	9.65	18250	0.075	0.016	0.086	0.140	248.941637	82.969142	-1341.53	663.47

2.4 Star Slots

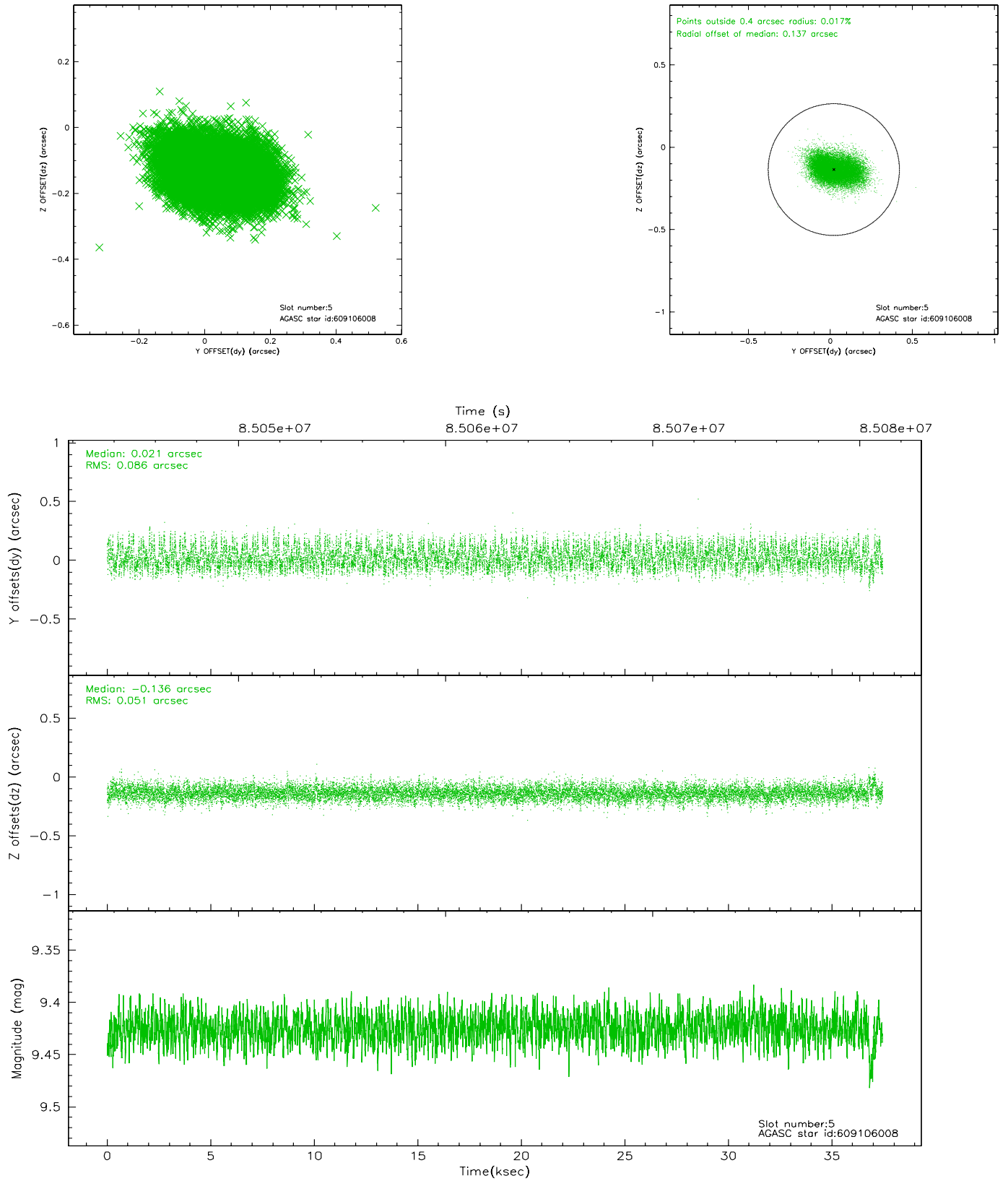
2.4.1 Slot 3



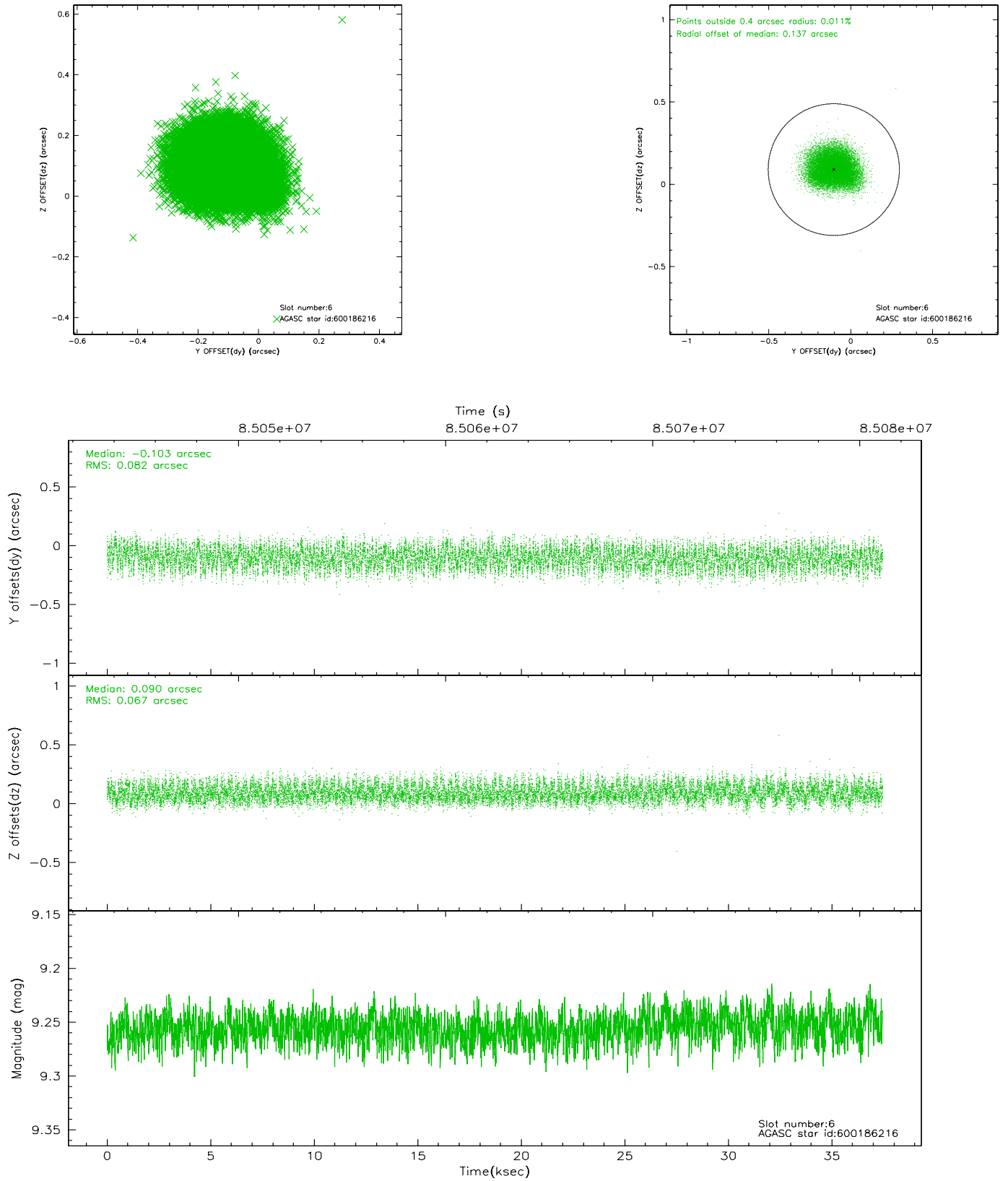
2.4.2 Slot 4



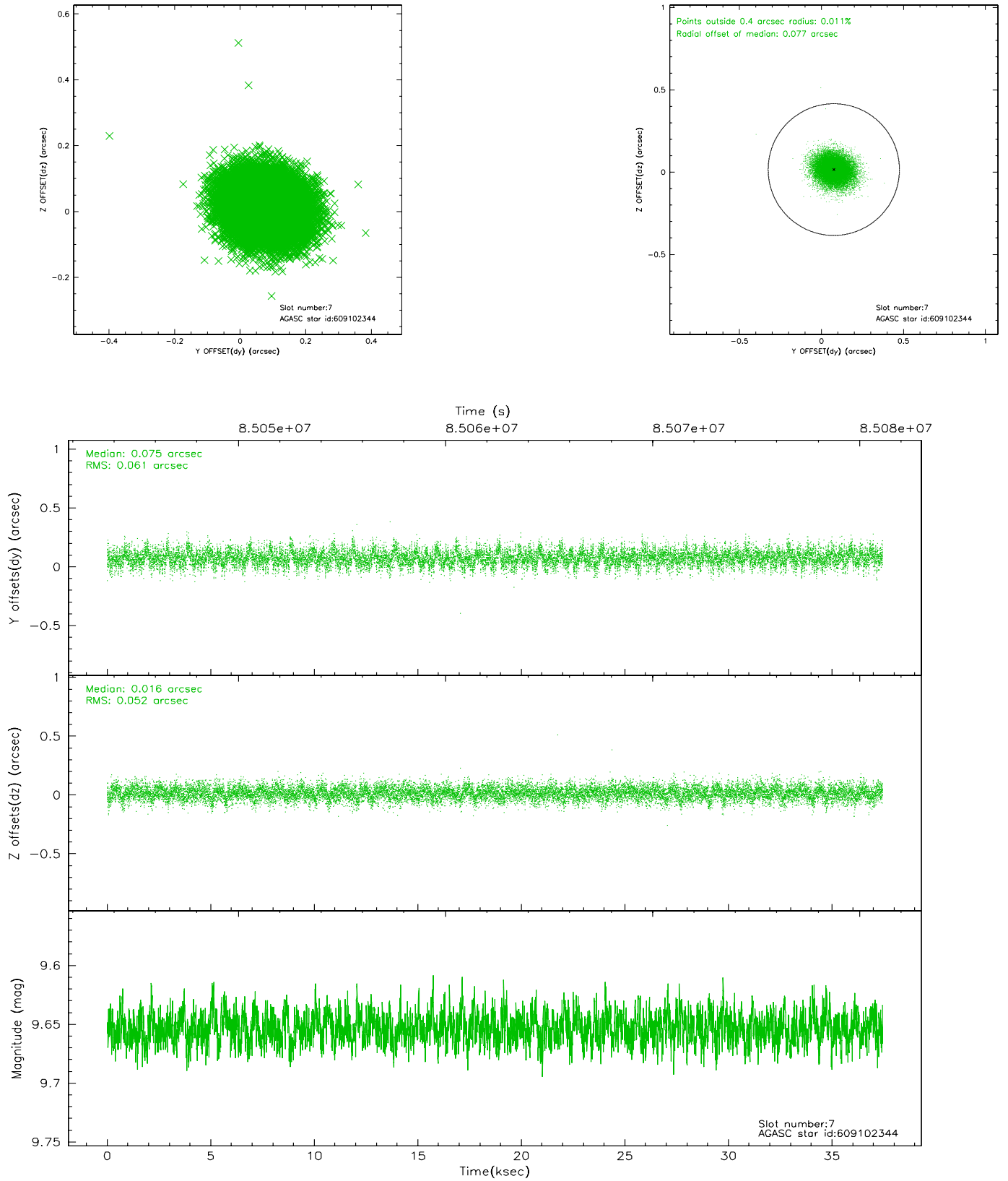
2.4.3 Slot 5



2.4.4 Slot 6

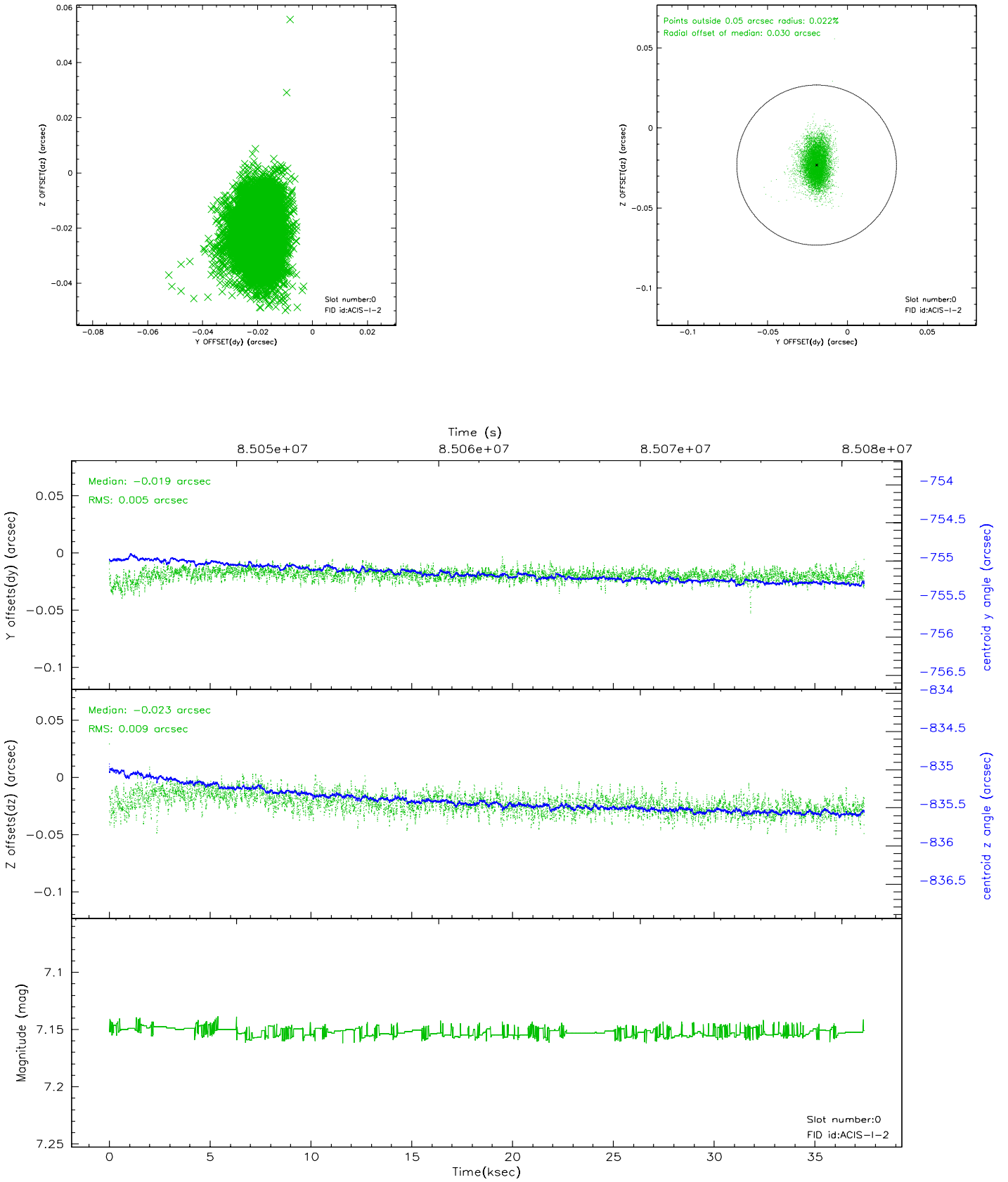


2.4.5 Slot 7

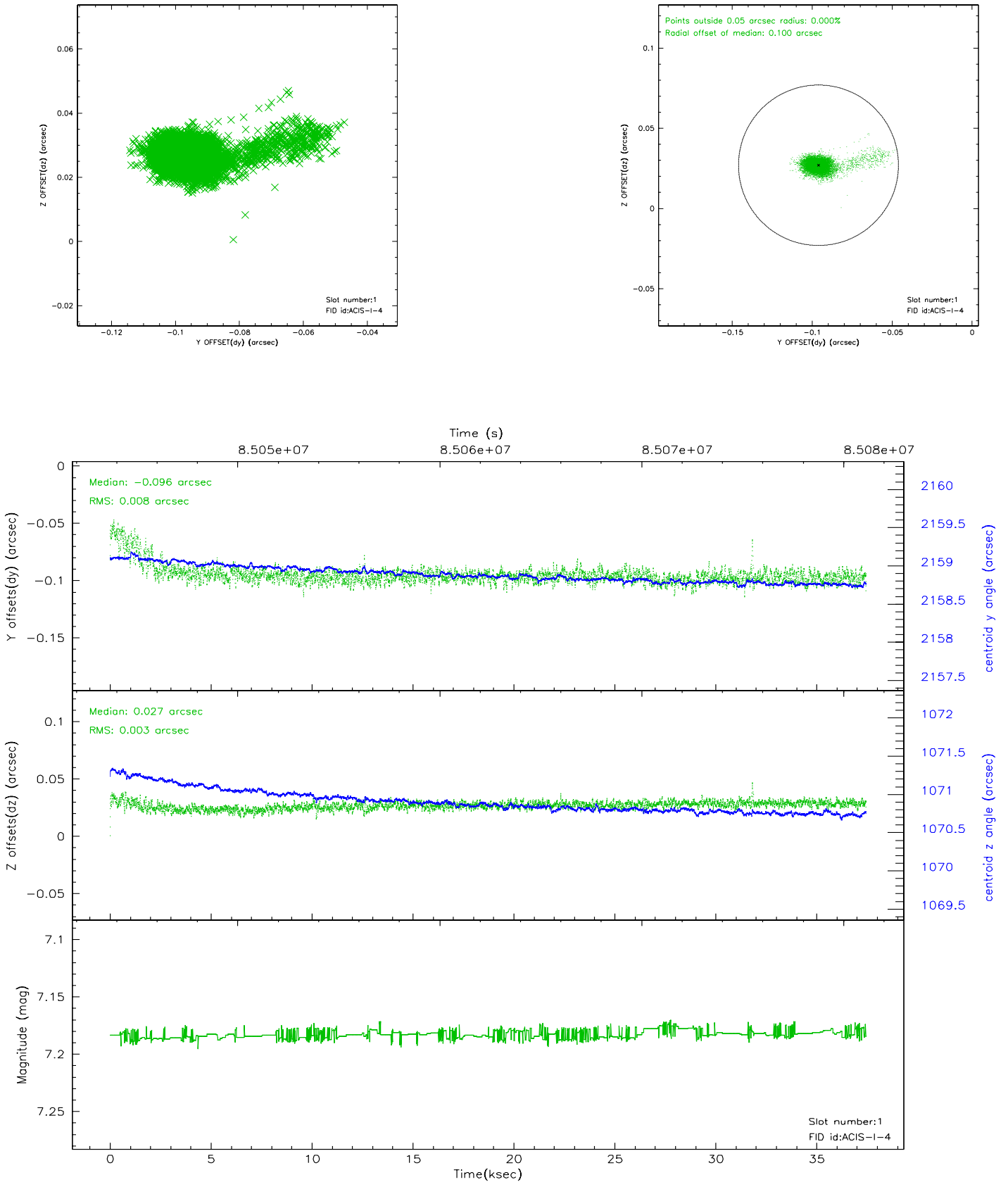


2.5 FID Slots

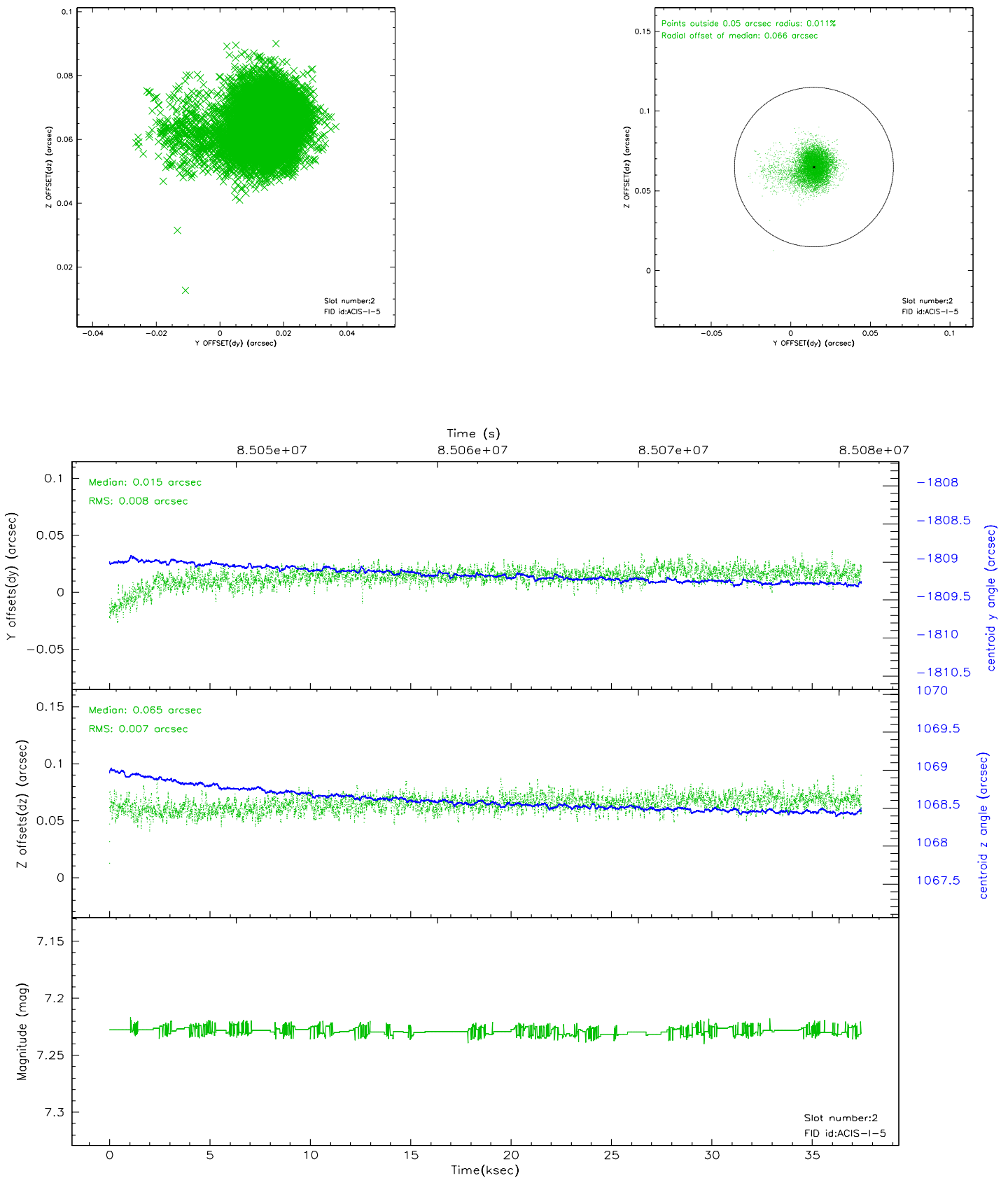
2.5.1 Slot 0



2.5.2 Slot 1



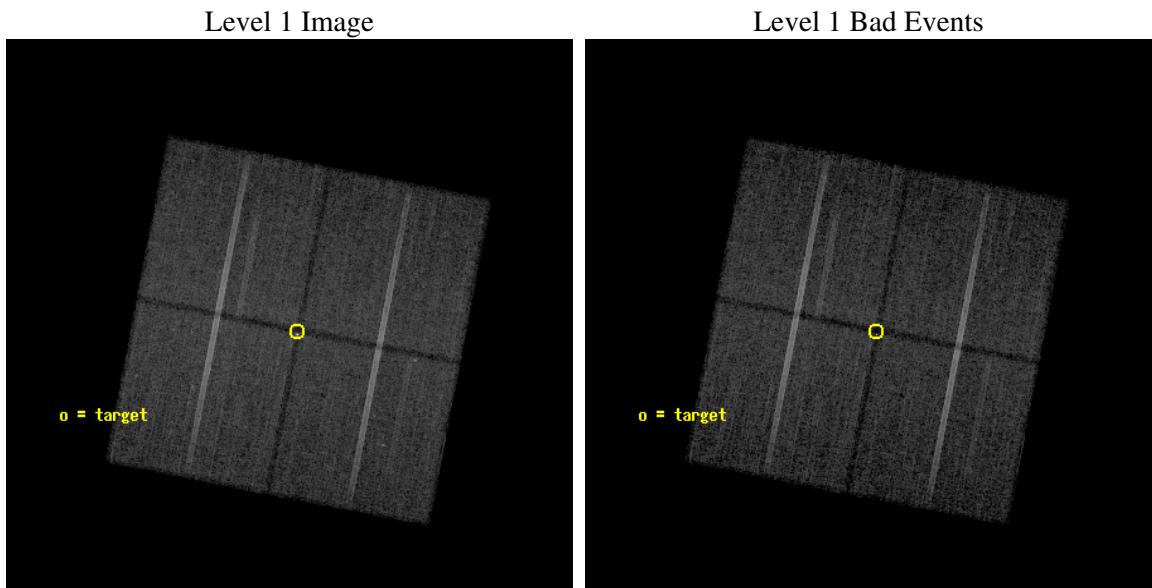
2.5.3 Slot 2



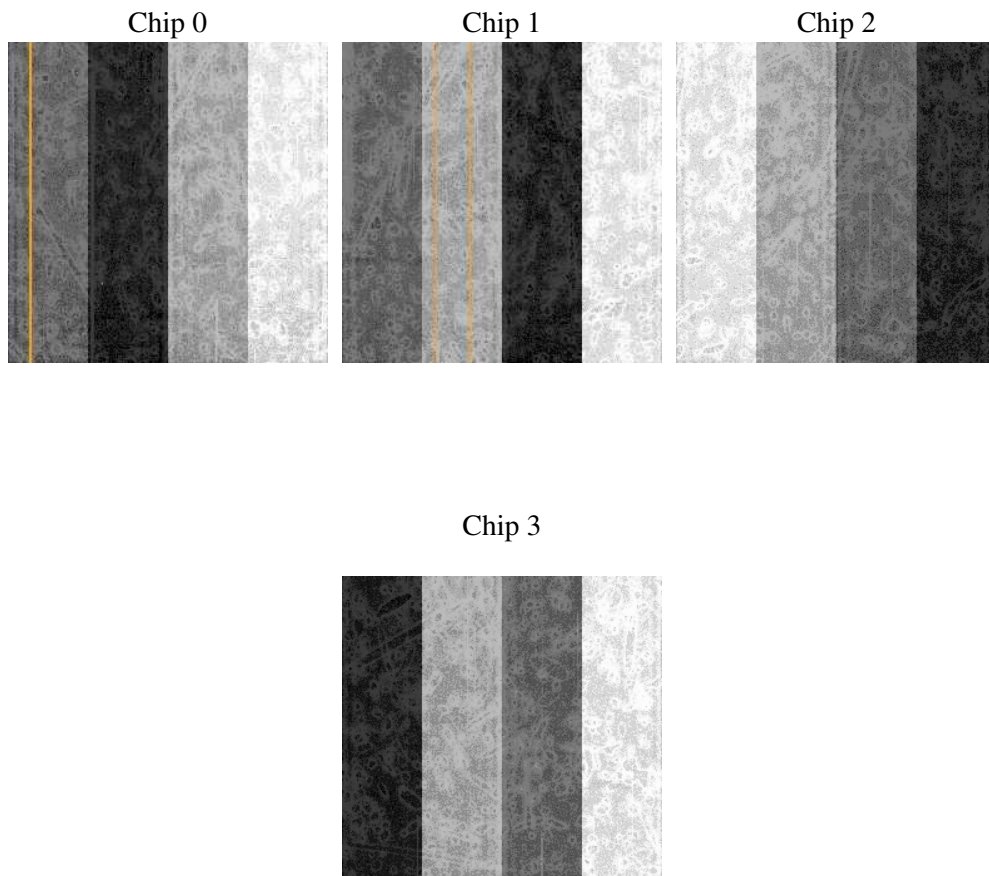
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-06-07T00:15:52
revision	3

sched_exp_time	37325.000000
ontime	31063.004349649
ontime0	31059.763319388
ontime1	31063.003522322
ontime2	31056.52207011
ontime3	31063.004349649
l1events	728603

3.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	171921	175662	192730	188290
rejected events	148492	152557	169190	167308
rejected %	86%	86%	87%	88%

	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	11328	10315	11609	9715
	6%	5%	6%	5%
grade 1 events	141	76	199	110
	0%	0%	0%	0%
grade 2 events	4650	4514	4657	4209
	2%	2%	2%	2%
grade 3 events	2235	2449	2121	2044
	1%	1%	1%	1%
grade 4 events	2130	2375	2092	1996
	1%	1%	1%	1%
grade 5 events	6194	6879	6271	6931
	3%	3%	3%	3%
grade 6 events	3739	4218	3722	3642
	2%	2%	1%	1%
grade 7 events	141504	144836	162059	159643
	82%	82%	84%	84%

4 Point Sources

A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2007.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.442

A.2 Comments

Target position falls on the gap between the nodes of the CCD chips and has been dithered over this gap. Dithering over the node boundary, which has lower sensitivity, can give a false indication of variability.