

V&V Reference Report

L2 ASCDS Version : 7.6.11.4

Observation 7928 - L2 Version 1
Chandra X-Ray Center

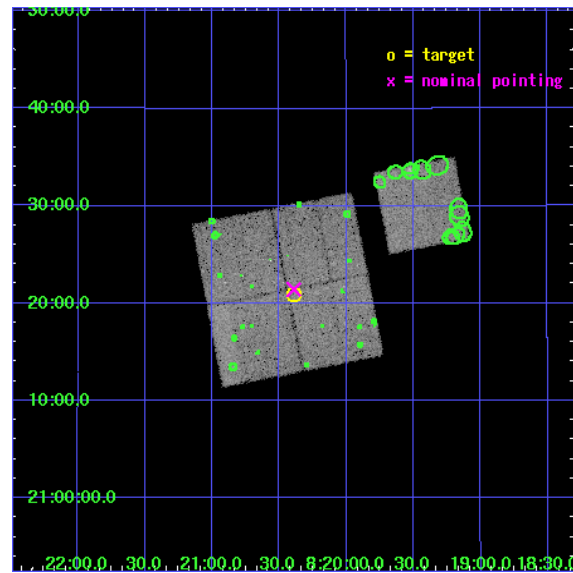
L2 Processing Date : Dec 27 2007

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1 Front

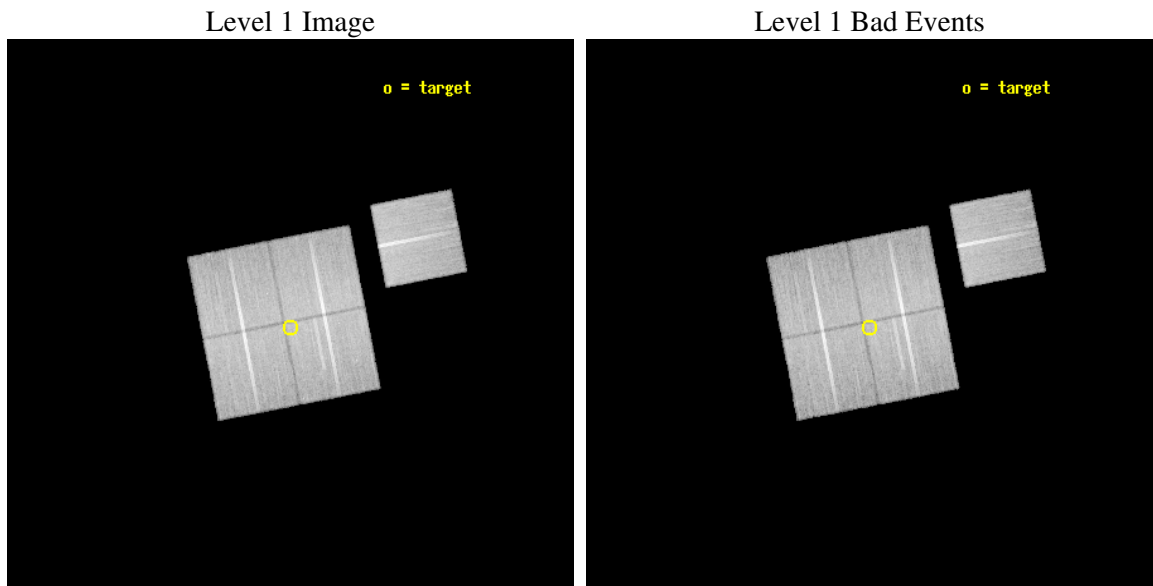
seq_num	800646
obs_id	7928
title	A Complete Baryon Census in a Nearby Galaxy Group
observer	Dr. John Mulchaey
object	NGC2563-P5
dtcycle	0
cycle	P
ra_targ	125.09875
dec_targ	21.349417
ra_nom	125.09780175417
dec_nom	21.357431594092
roll_nom	78.977966750456
revision	1
ontime	30048.300231099
livetime	29655.697067343
ontime0	30048.300231099
ontime1	30048.300231099
ontime2	30038.877399802
ontime3	30048.300231099
ontime6	30045.159240723
l2events	102733



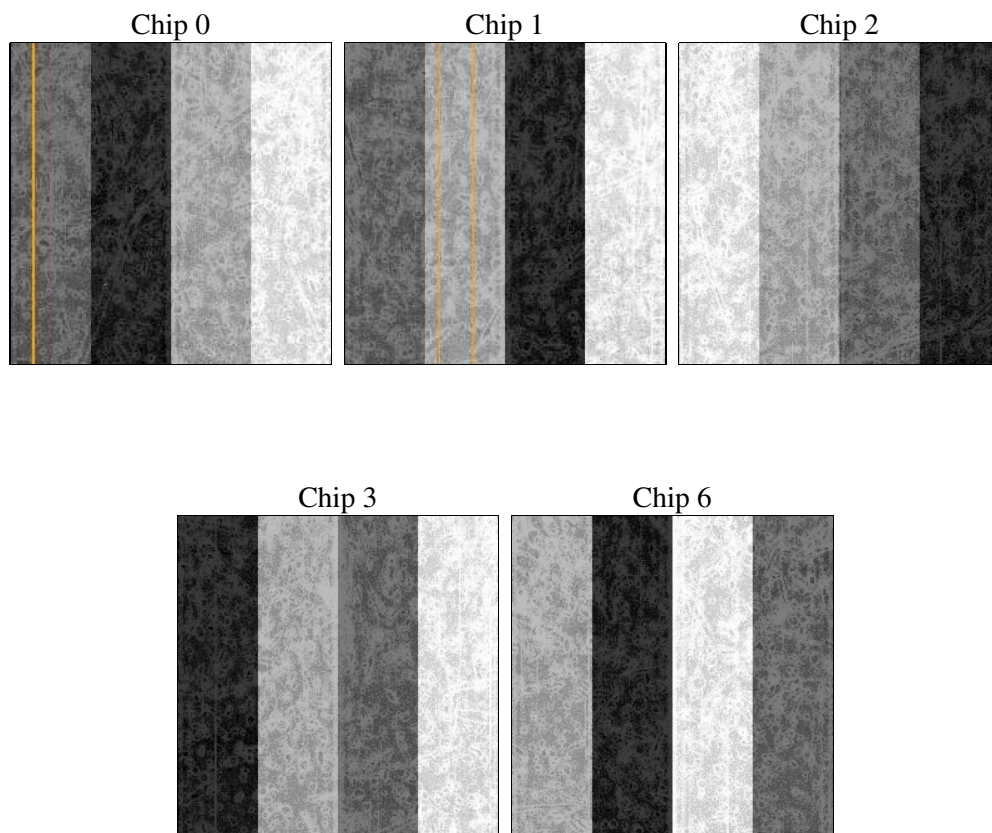
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.11.4
caldbver	3.4.2
date	2007-12-27T21:42:49
revision	1

sched_exp_time	30000.000000
ontime	30048.300231099
ontime0	30048.300231099
ontime1	30048.300231099
ontime2	30038.877399802
ontime3	30048.300231099
ontime6	30045.159240723
l1events	1185884

2.1.4 Events

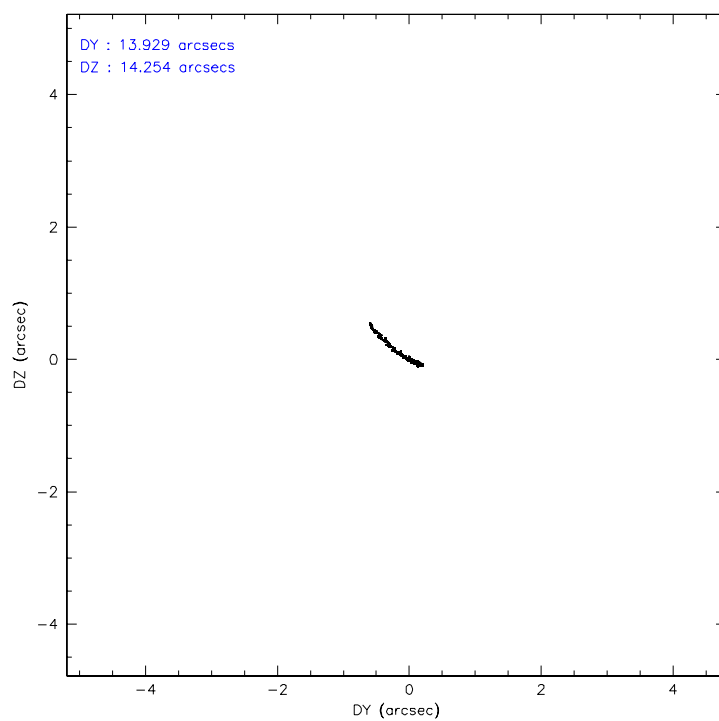
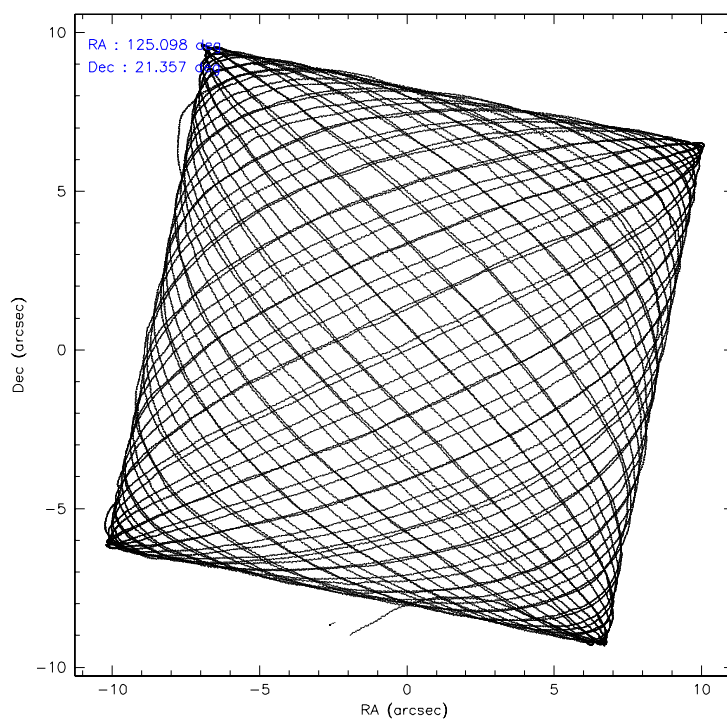
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	230704	229501	244197	240178	241304
rejected events	206164	202444	220508	216956	216823
rejected %	89%	88%	90%	90%	89%

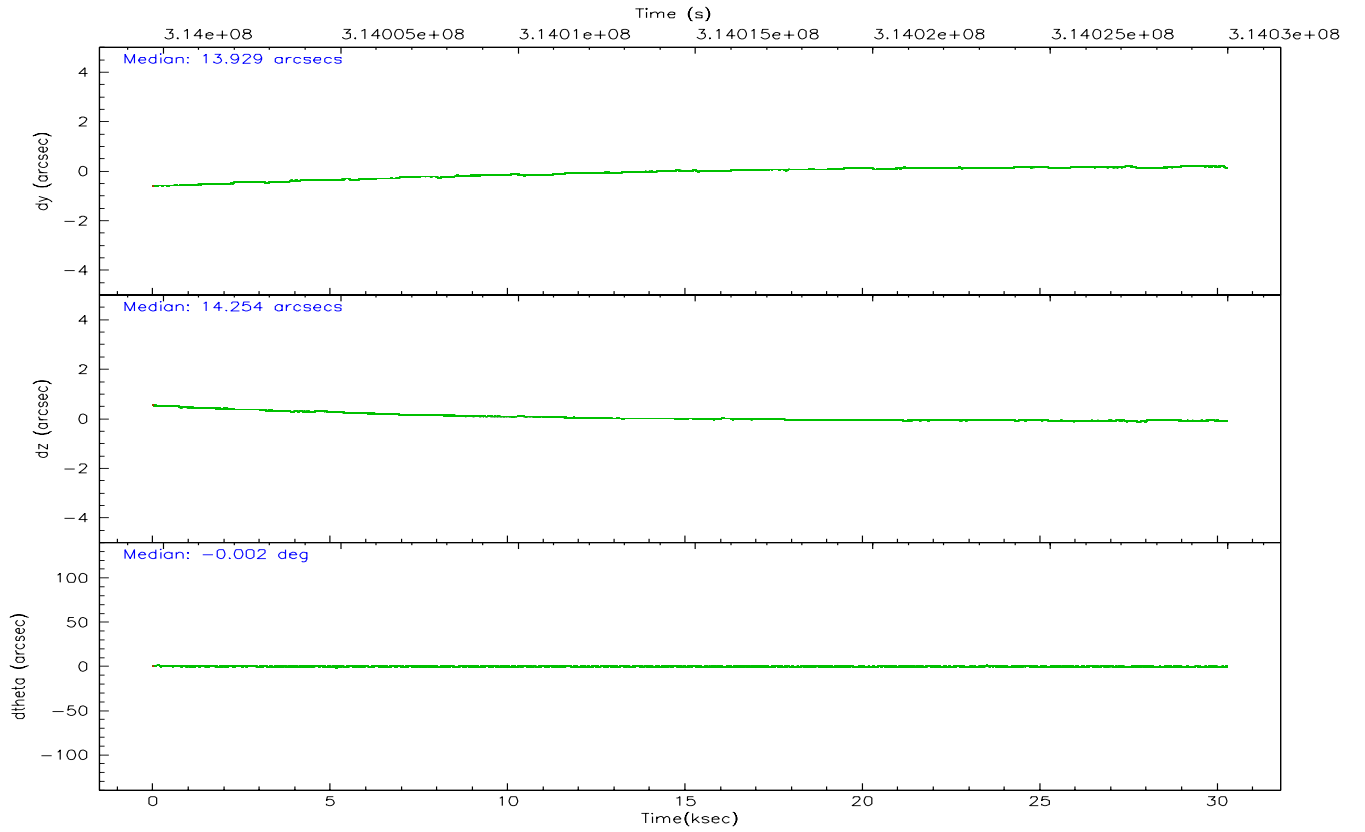
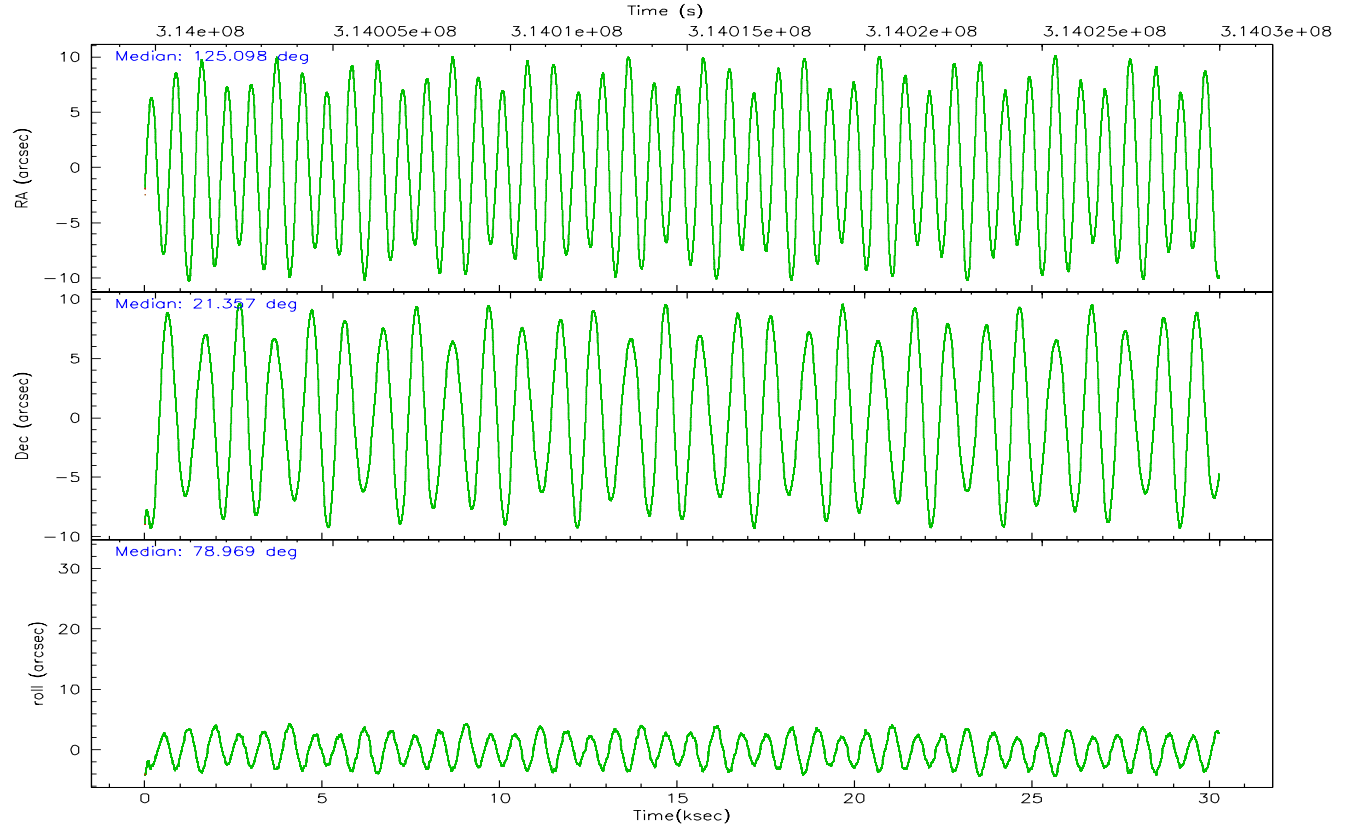
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8698	9814	8509	8477	8541
	3%	4%	3%	3%	3%
grade 1 events	118	132	135	152	136
	0%	0%	0%	0%	0%
grade 2 events	5868	6038	5703	5167	5287
	2%	2%	2%	2%	2%
grade 3 events	2676	2911	2580	2582	2684
	1%	1%	1%	1%	1%
grade 4 events	2583	2814	2553	2527	2683
	1%	1%	1%	1%	1%
grade 5 events	8348	9293	8036	9745	9463
	3%	4%	3%	4%	3%
grade 6 events	4721	5488	4349	4472	5291
	2%	2%	1%	1%	2%
grade 7 events	197692	193011	212332	207056	207219
	85%	84%	86%	86%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
Pointing RA	125.107513	125.0978017541653	CCD I2 on	Y	Y
Pointing Dec	21.331481	21.35743159409161	CCD I3 on	Y	Y
Pointing Roll	78.765748	78.97796675045586	CCD S0 on	N	N
SIM focus pos (mm)	-0.782348	-0.7809083437167272	CCD S1 on	N	N
SIM defocus (mm)	0	0.001439871863259334	CCD S2 on	O1	Y
SIM translation stage pos (mm)	-233.592463	-233.5874344608287	CCD S3 on	N	N
SIM translation stage offset (mm)	0	-0.005018542100998502	CCD S4 on	N	N
Observation start time	313999997.184000	313999023.35368	CCD S5 on	N	N
Observation start date	2007-12-14T06:12:12	2007-12-14T05:57:03	Number of optional ACIS chips dropped	0	0
Observation end time	314029997.184000	314030954.66773	On-chip summing requested	N	N
Observation end date	2007-12-14T14:32:12	2007-12-14T14:49:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			Primary exposure time	0.000000	3.1

2.3 Aspect



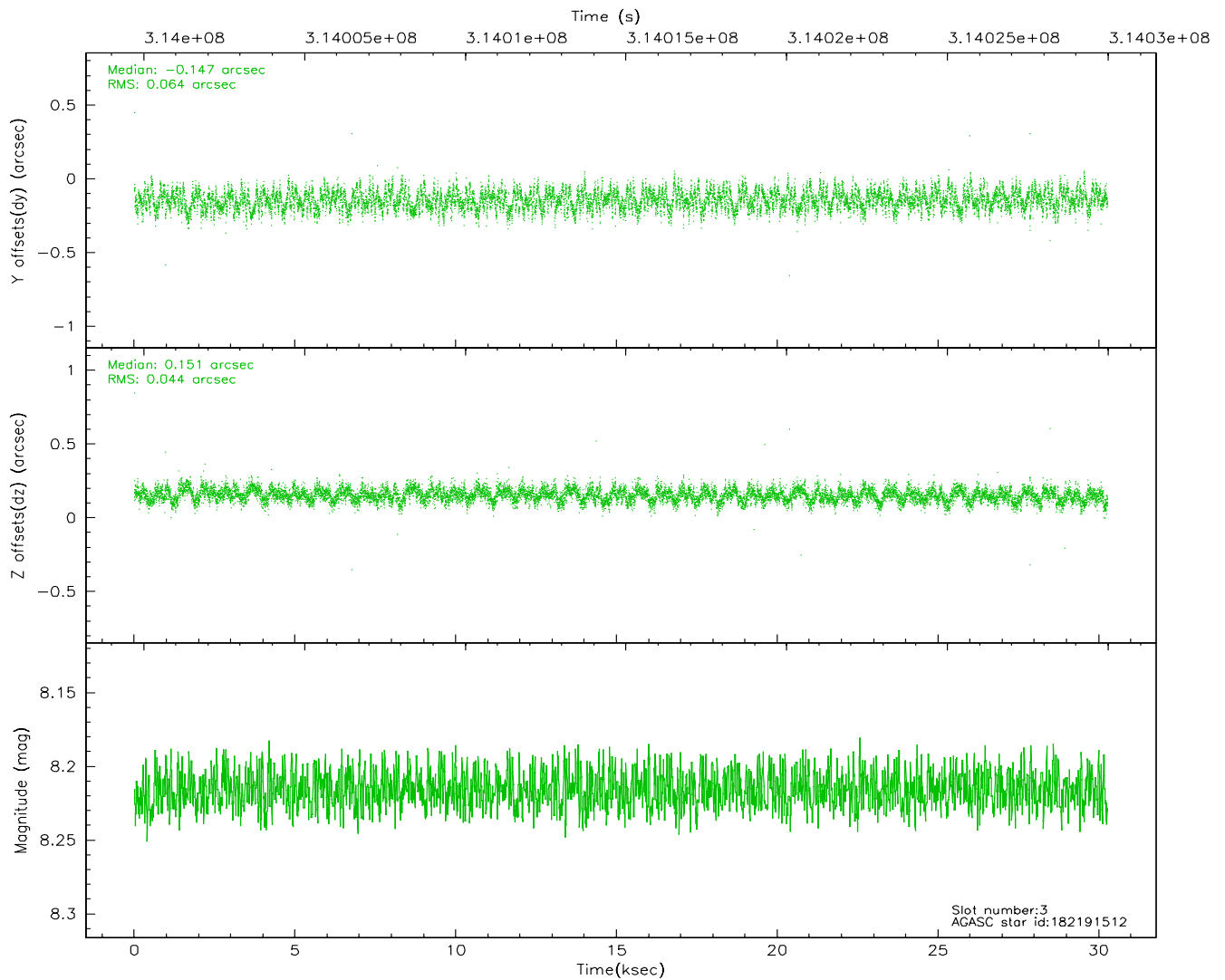
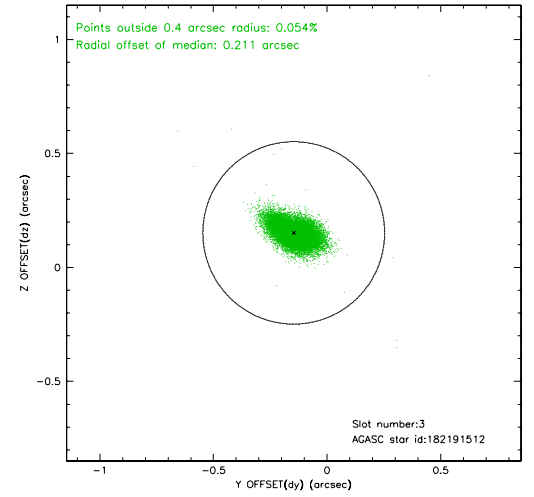
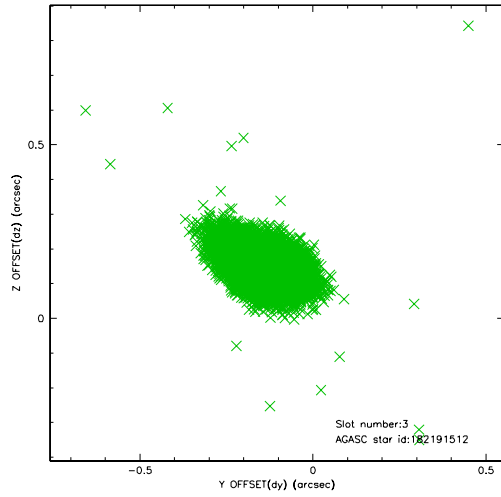


Slot Statistics

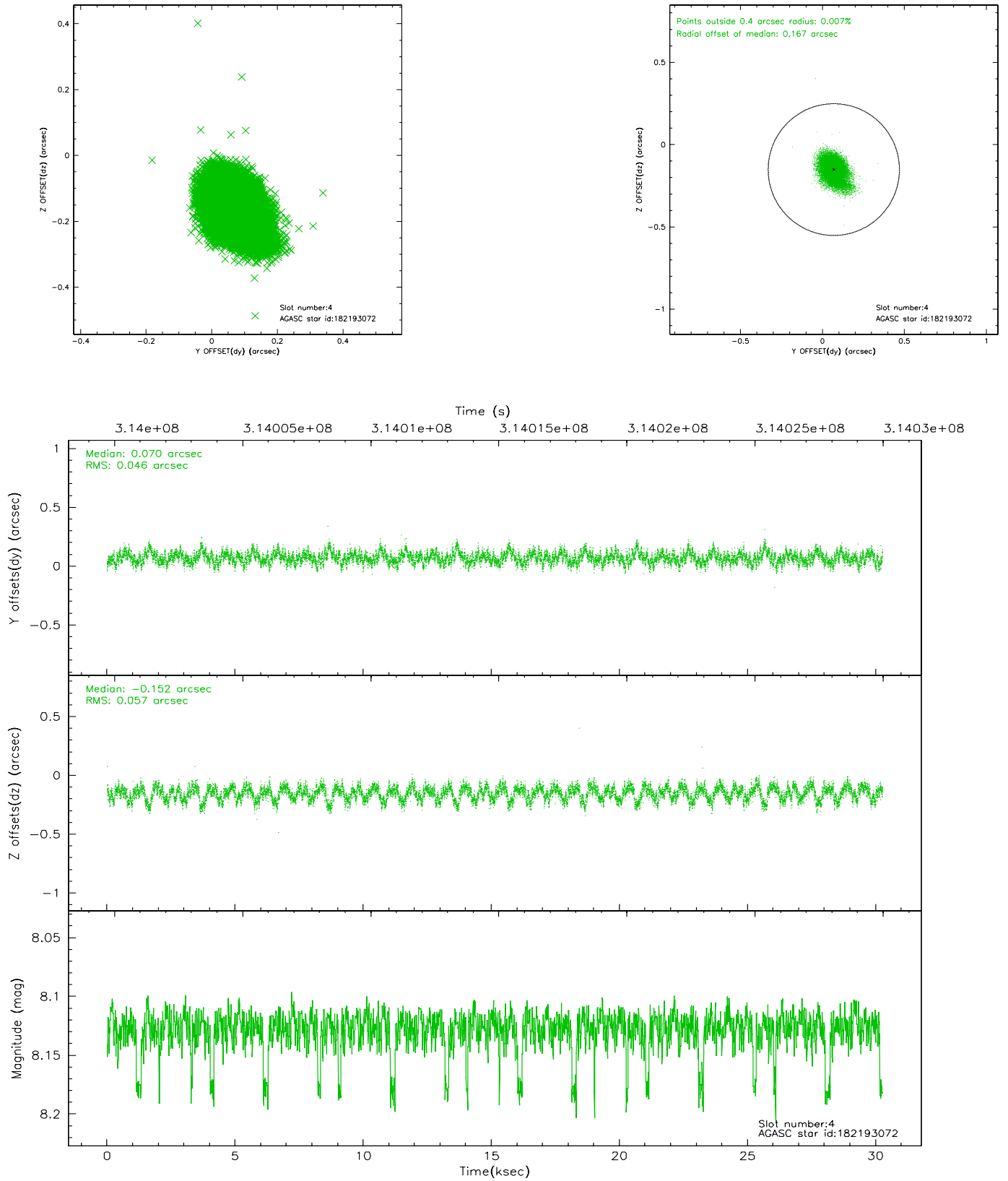
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	7384	0.007	0.039	0.007	0.012	0.000000	0.000000	925.65	-837.86
1	FID	ACIS-I-5	7.23	7381	-0.187	0.026	0.010	0.018	0.000000	0.000000	-1822.63	1059.56
2	FID	ACIS-I-6	7.23	7382	0.088	0.006	0.009	0.016	0.000000	0.000000	391.17	1704.14
3	GUIDE	182191512	8.22	14762	-0.147	0.151	0.080	0.134	125.905406	21.821214	2255.98	-2270.18
4	GUIDE	182193072	8.13	14770	0.070	-0.152	0.077	0.126	124.468170	21.177590	-957.12	1997.67
5	GUIDE	182195136	8.57	14760	0.124	0.048	0.072	0.116	124.931899	20.918080	-1574.20	289.43
6	GUIDE	182201632	7.62	14768	-0.093	-0.024	0.065	0.099	124.727284	21.494130	327.42	1363.81
7	GUIDE	182202936	7.82	14768	0.044	-0.019	0.061	0.093	124.849962	21.257255	-429.72	795.56

2.4 Star Slots

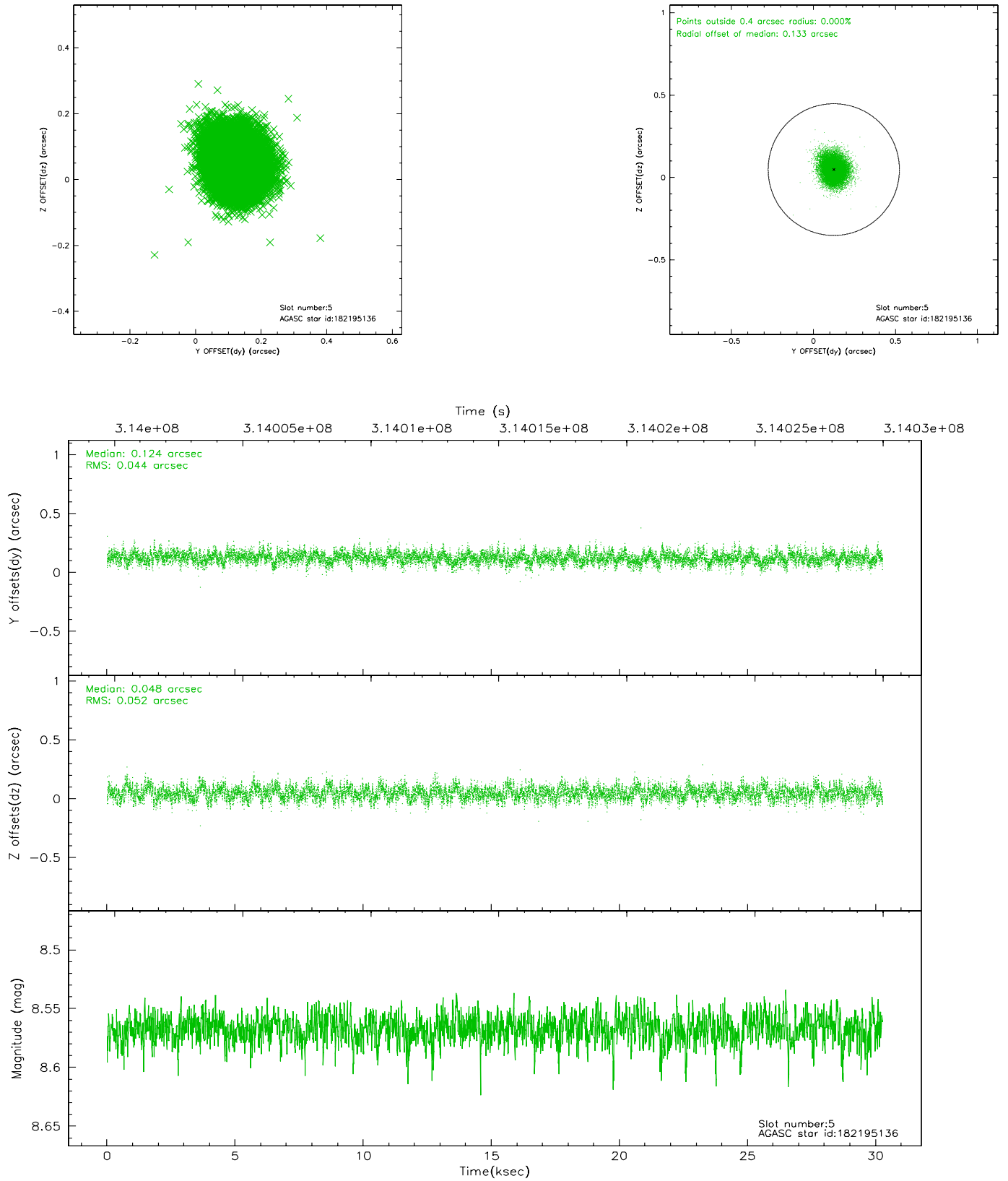
2.4.1 Slot 3



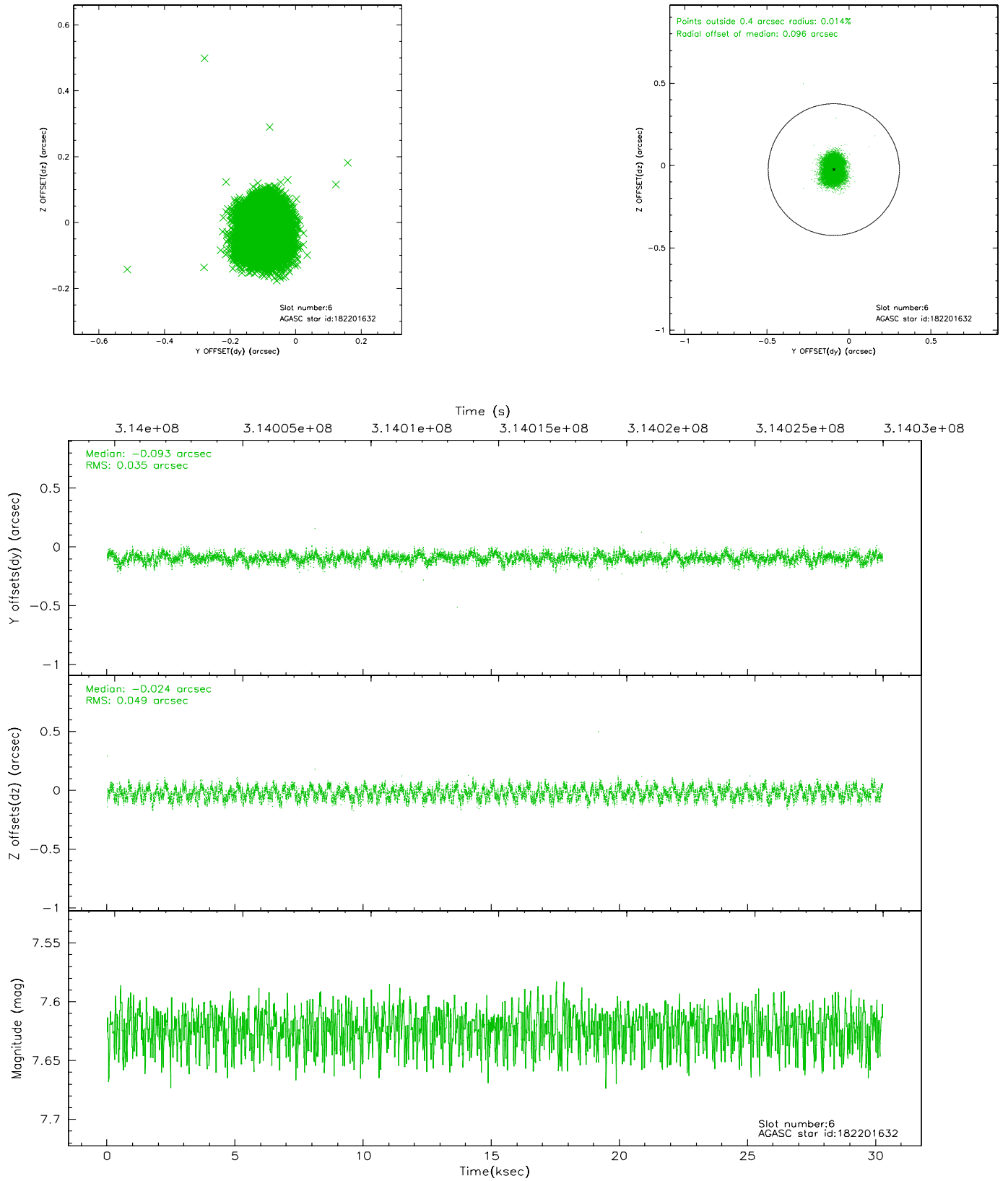
2.4.2 Slot 4



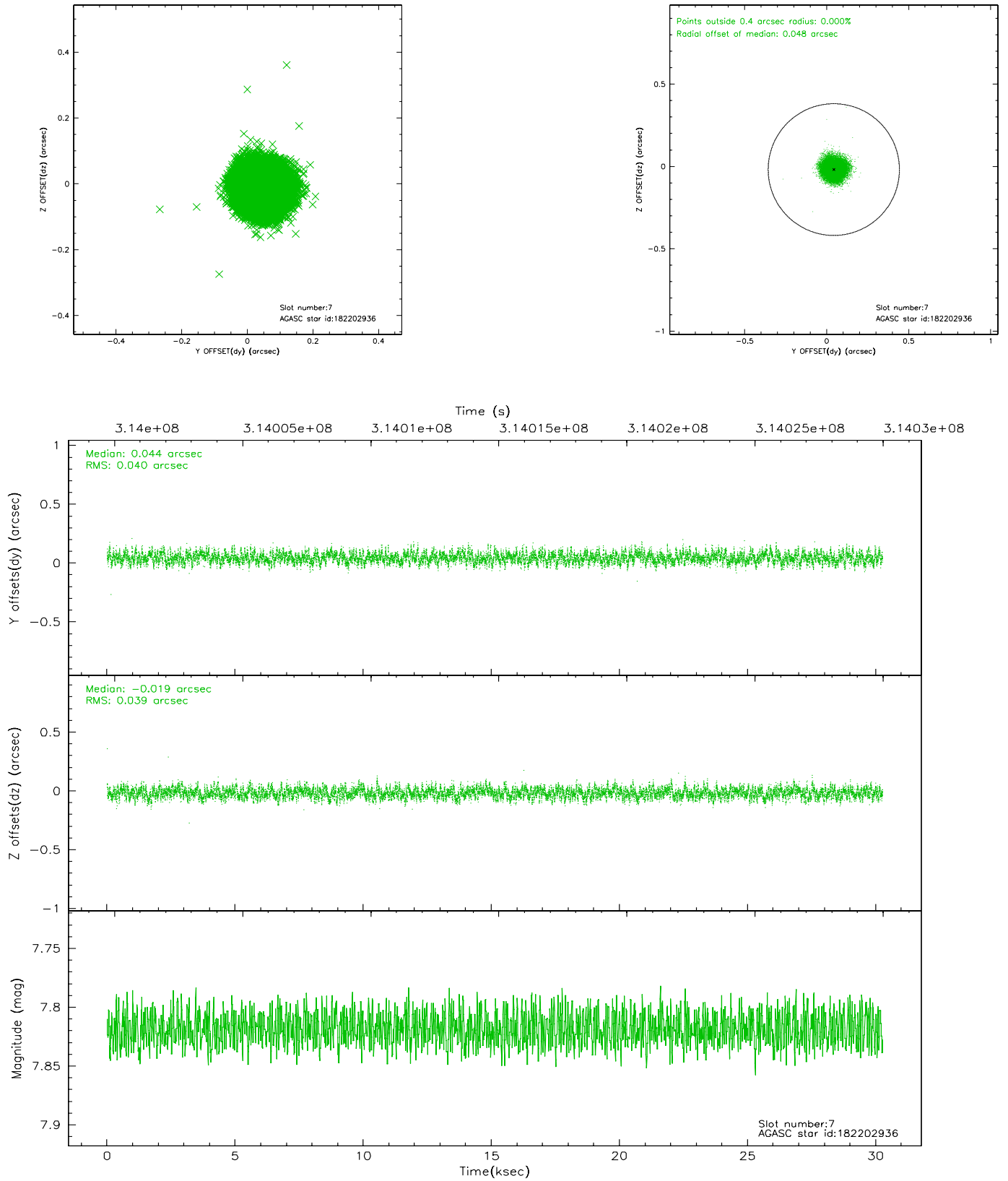
2.4.3 Slot 5



2.4.4 Slot 6

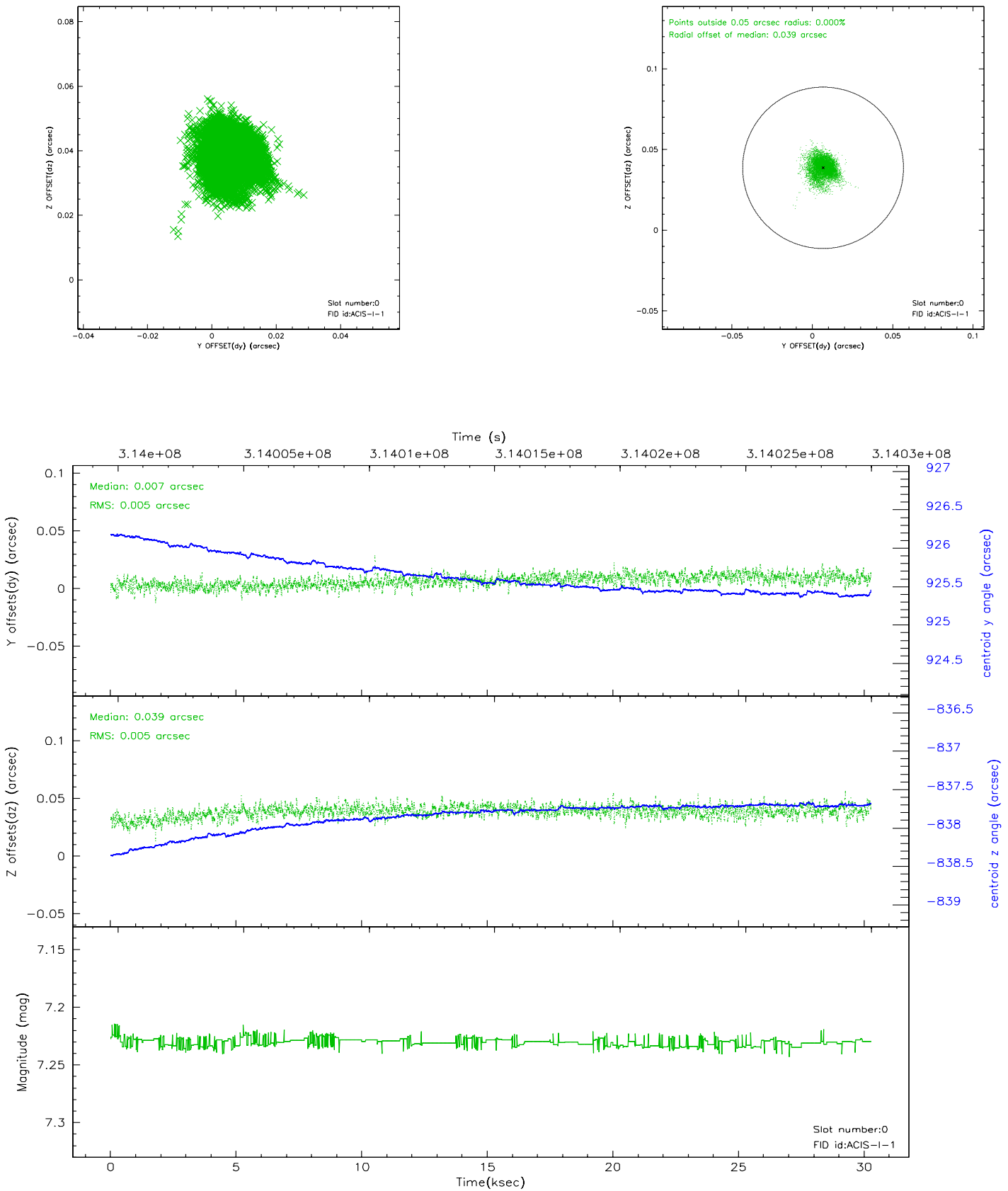


2.4.5 Slot 7

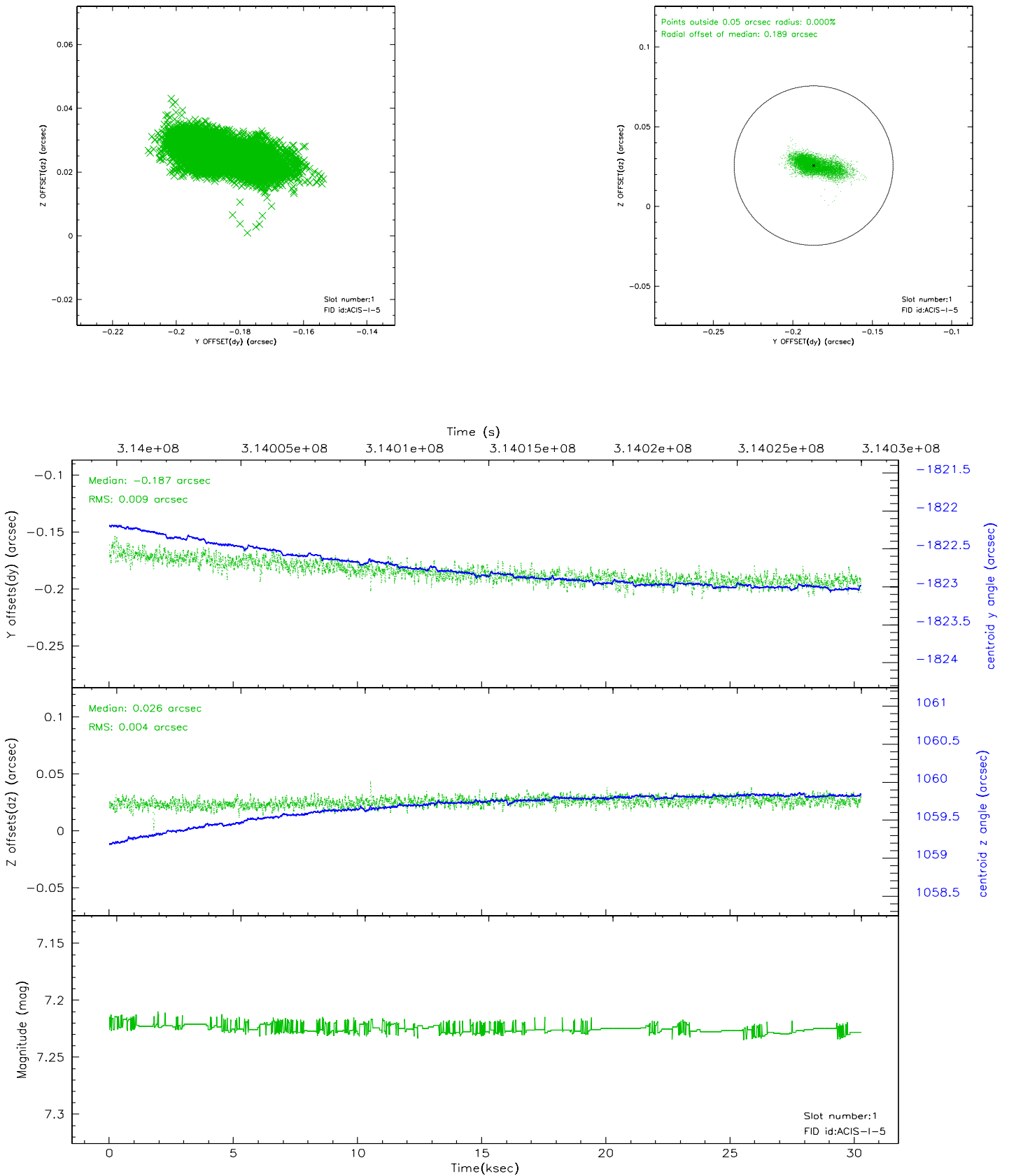


2.5 FID Slots

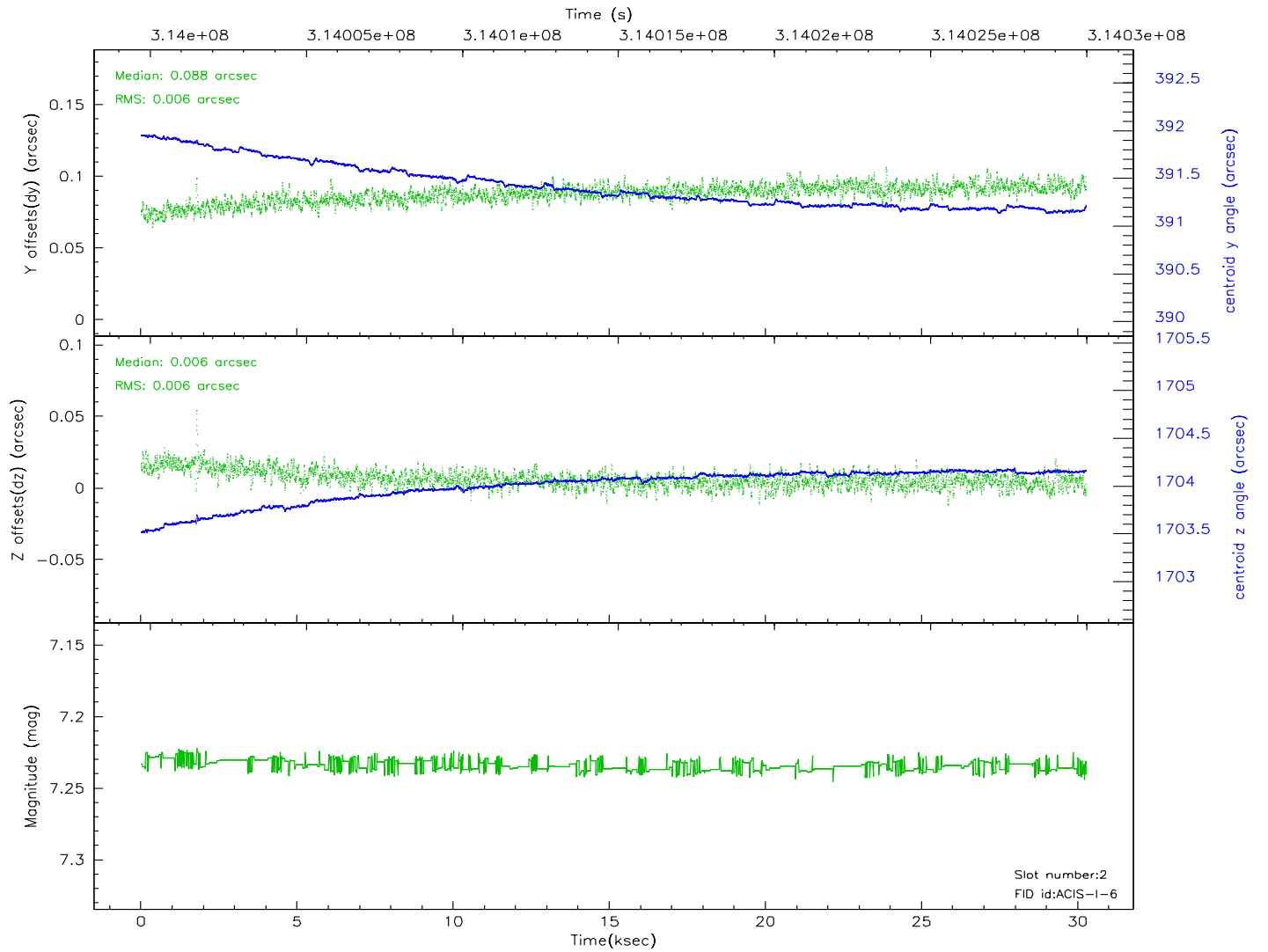
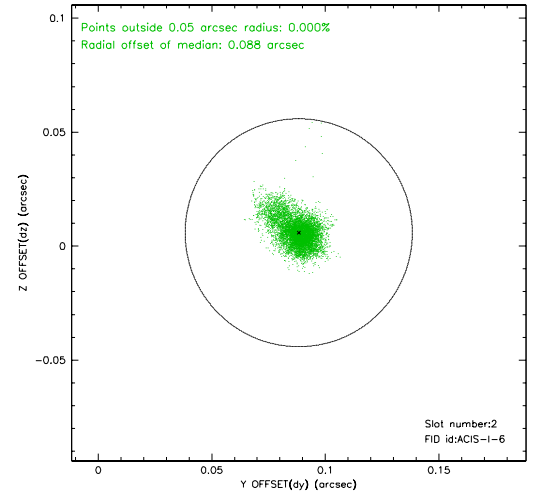
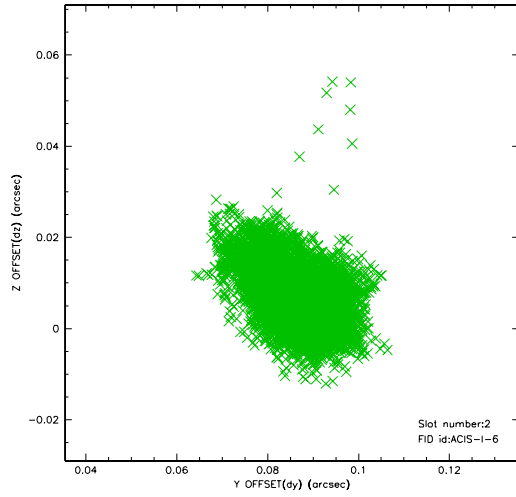
2.5.1 Slot 0



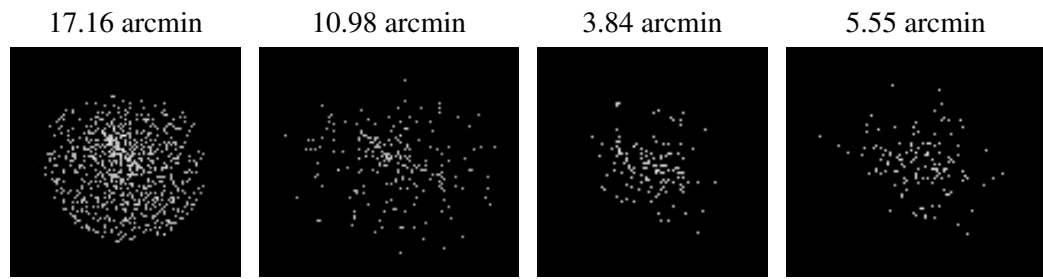
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.12.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.0483002

A.2 Comments

No ACIS housekeeping data were collected and downlinked for this observation, do to an operational issue. The only negative impact on the observation is the lack of accurate focal plane temperature data which is used for instrument calibration. In order to process the data, ACIS housekeeping files were constructed that assumed a focal plane temperature of -119.7 degrees C. The instrument gain files are available only for -120 and -110 degrees C, so this assumption should have no impact on the currently processed data.