

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8642 - L2 Version 3
Chandra X-Ray Center

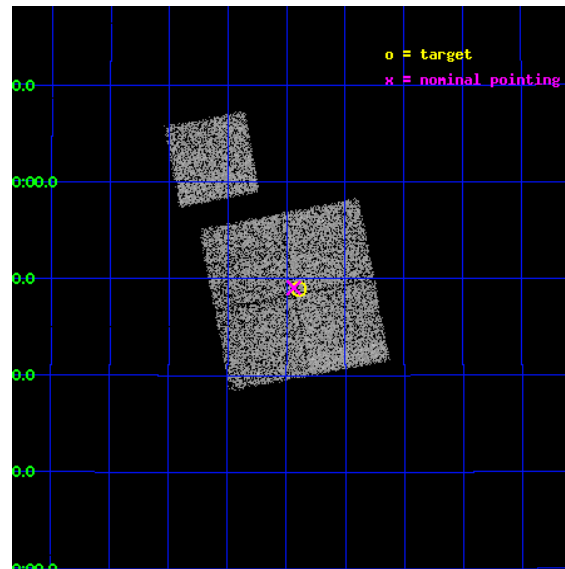
L2 Processing Date : May 11 2012

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1 Front

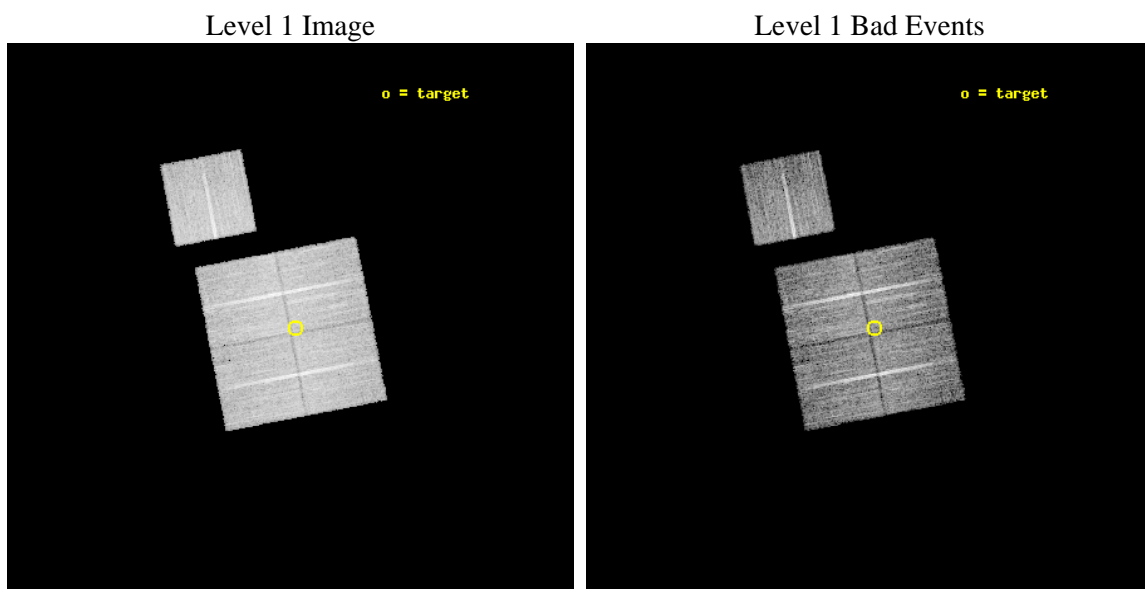
seq_num	900779	Sequence number
obs_id	8642	Observation id
title	Chandra Observations of the DEEP2 Fields	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	DEEP2 Field 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	251.72431	Observer's specified target RA [deg]
dec_targ	34.816826	Observer's specified target Dec [deg]
ra_nom	251.73411525289	Nominal RA [deg]
dec_nom	34.817721735999	Nominal Dec [deg]
roll_nom	349.10306084471	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8769.9000674486	Sum of GTIs [s]
livetime	8655.3148667609	Livetime [s]
ontime0	8769.9000674486	Sum of GTIs [s]
ontime1	8766.7590970993	Sum of GTIs [s]
ontime2	8769.9000674486	Sum of GTIs [s]
ontime3	8769.9000674486	Sum of GTIs [s]
ontime6	8766.7591071129	Sum of GTIs [s]
l2events	29451	Number of level 2 events



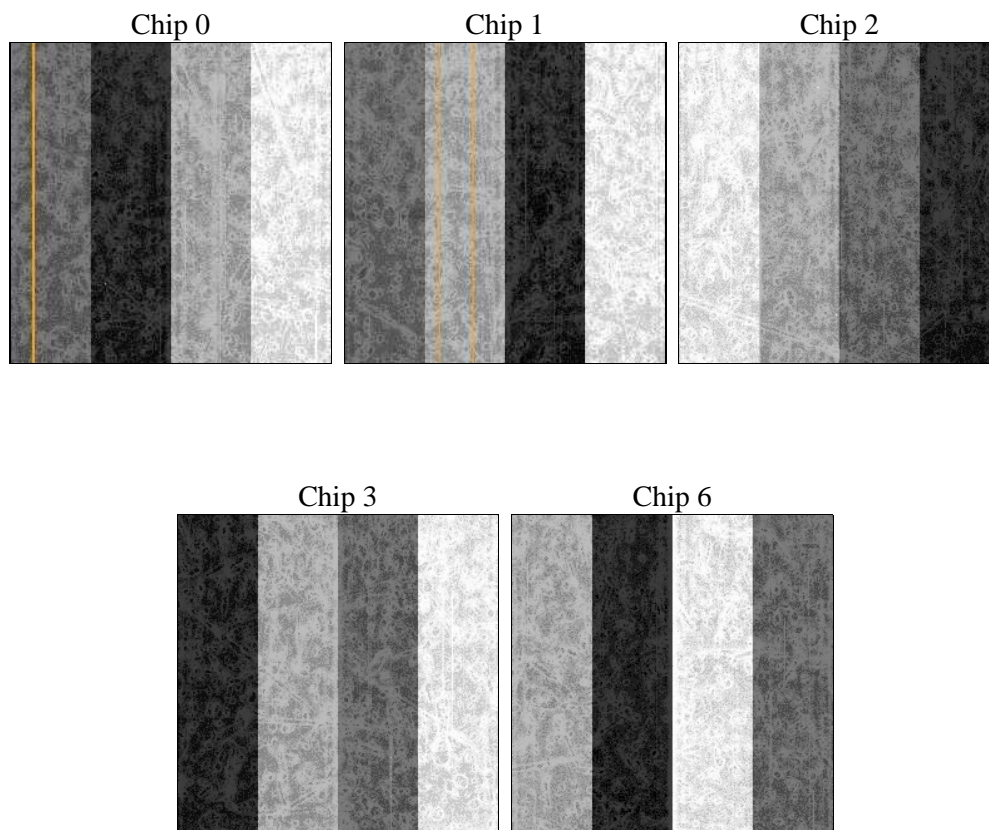
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	9000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	8769.9000674486	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	8769.9000674486	Sum of GTIs [s]
date	2012-05-11T15:44:14	Date and time of file creation	ontime1	8766.7590970993	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	8769.9000674486	Sum of GTIs [s]
			ontime3	8769.9000674486	Sum of GTIs [s]
			ontime6	8766.7591071129	Sum of GTIs [s]
			l1events	346387	Number of level 1 events

2.1.4 Events

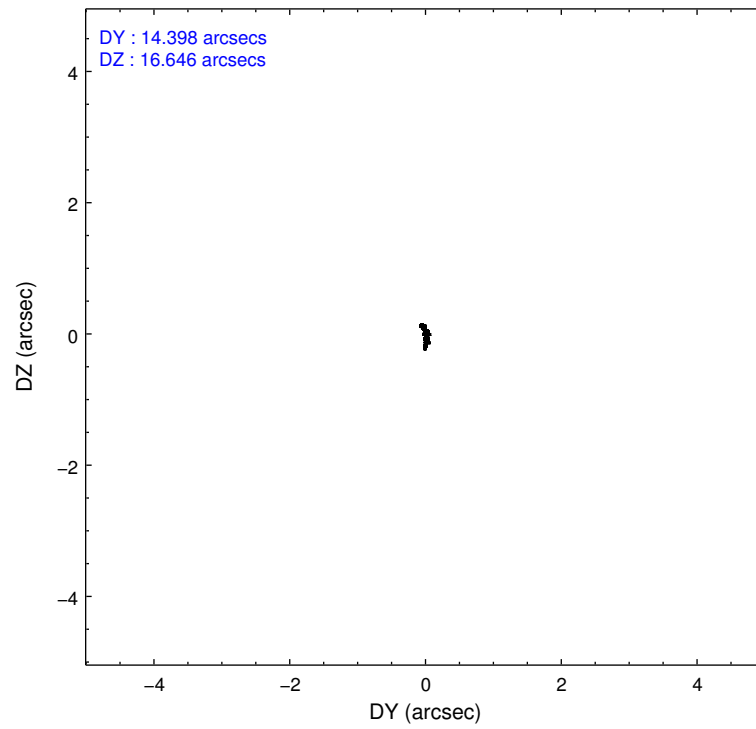
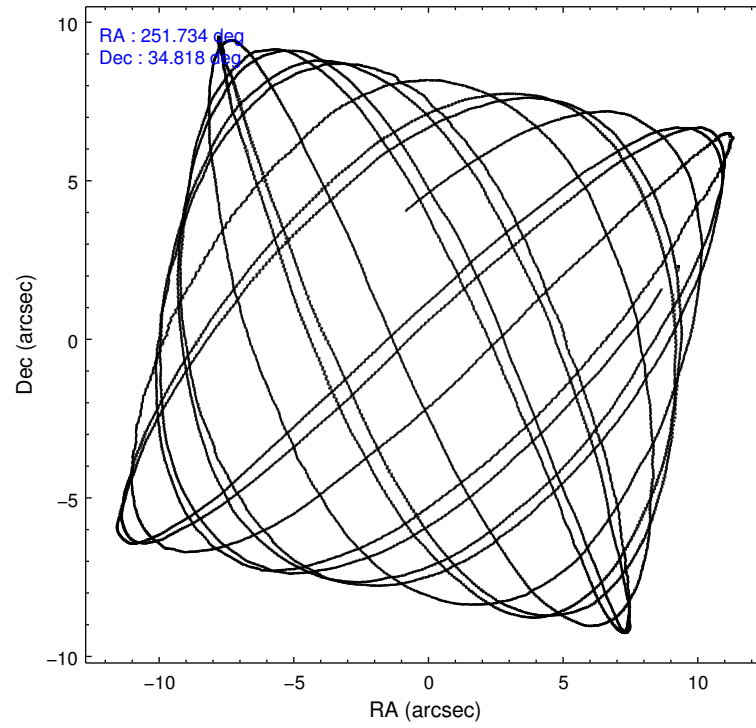
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	65763	66156	75122	68692	70654
rejected events	58723	58113	68273	61949	63551
rejected %	89%	87%	90%	90%	89%

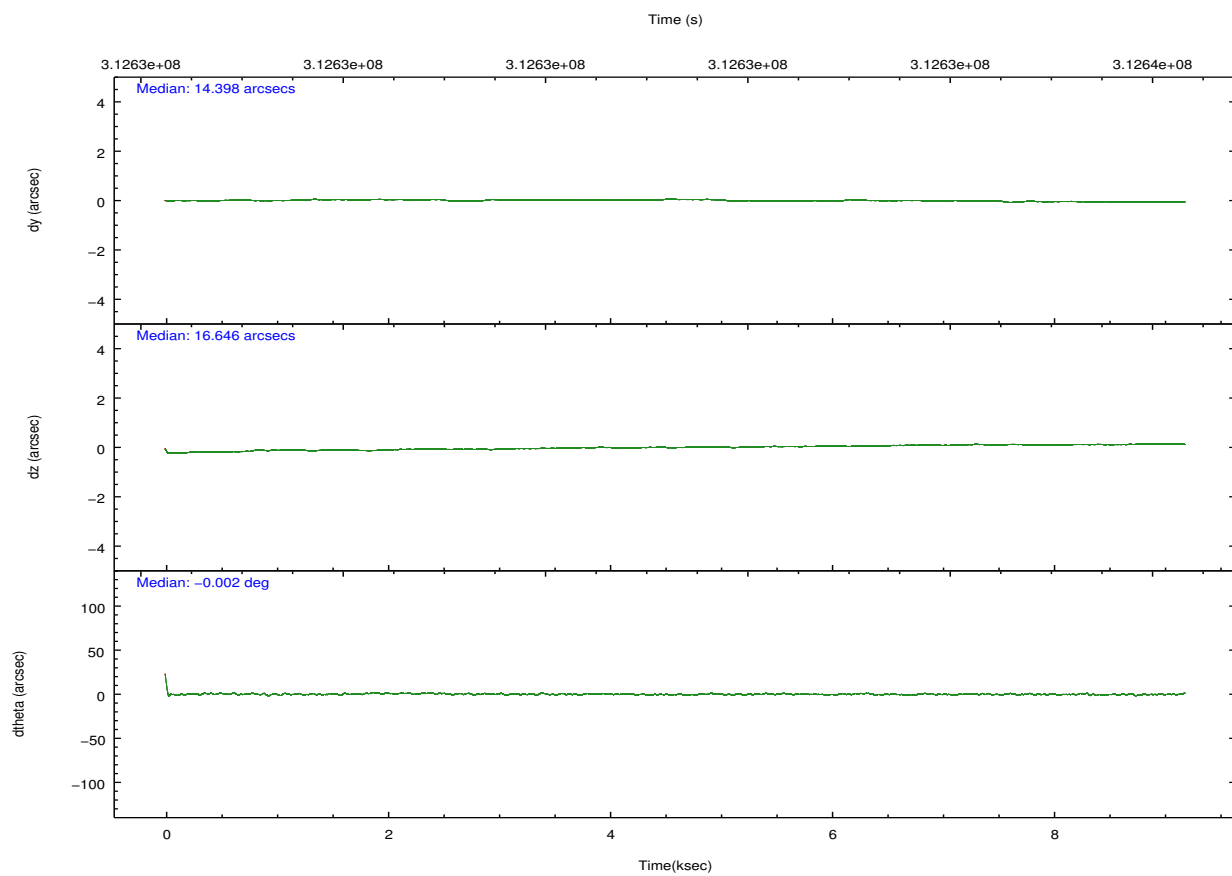
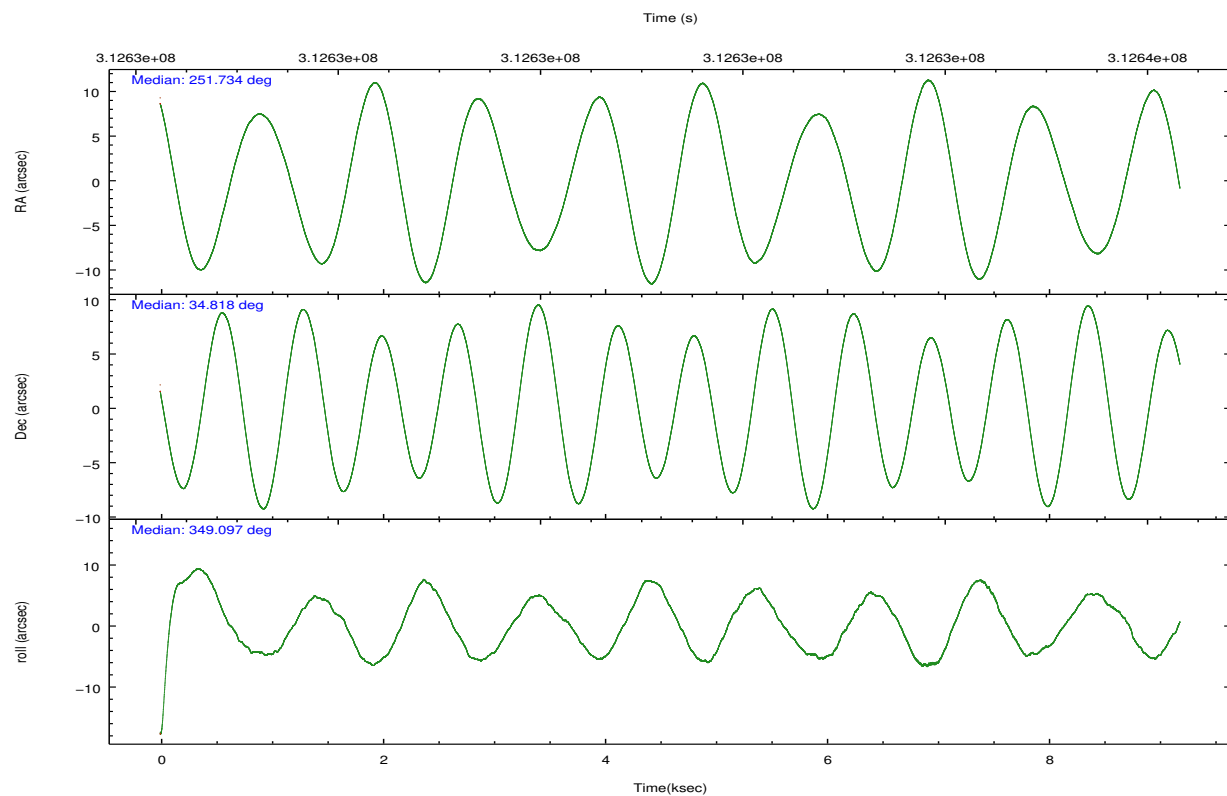
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2356	2845	2427	2421	2421
	3%	4%	3%	3%	3%
grade 1 events	41	37	28	39	29
	0%	0%	0%	0%	0%
grade 2 events	1779	1811	1679	1457	1610
	2%	2%	2%	2%	2%
grade 3 events	776	875	717	772	791
	1%	1%	0%	1%	1%
grade 4 events	752	888	730	755	788
	1%	1%	0%	1%	1%
grade 5 events	2510	2697	2308	2944	2855
	3%	4%	3%	4%	4%
grade 6 events	1379	1629	1300	1339	1494
	2%	2%	1%	1%	2%
grade 7 events	56170	55374	65933	58965	60666
	85%	83%	87%	85%	85%

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	251.702485	251.7341152528948	CCD I2 on	Y	Y
[deg] Pointing Dec	34.808618	34.81772173599919	CCD I3 on	Y	Y
[deg] Pointing Roll	348.912458	349.1030608447122	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	312626864.184000	312626487.81234	CCD S5 on	N	N
Observation start date	2007-11-28T08:46:39	2007-11-28T08:41:27	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	312635864.184000	312637305.15036	On-chip summing requested	N	N
Observation end date	2007-11-28T11:16:39	2007-11-28T11:41:45	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



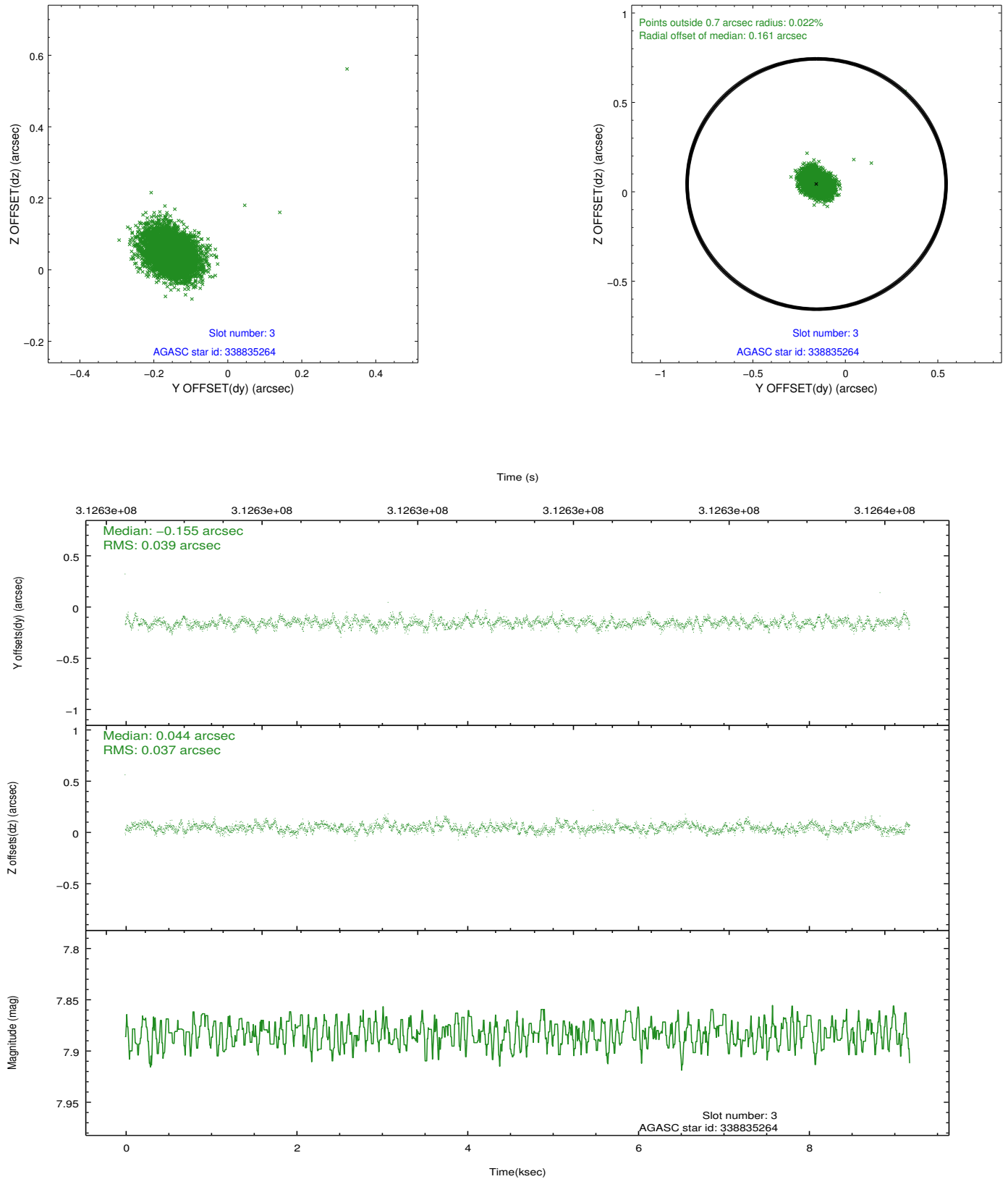


Slot Statistics

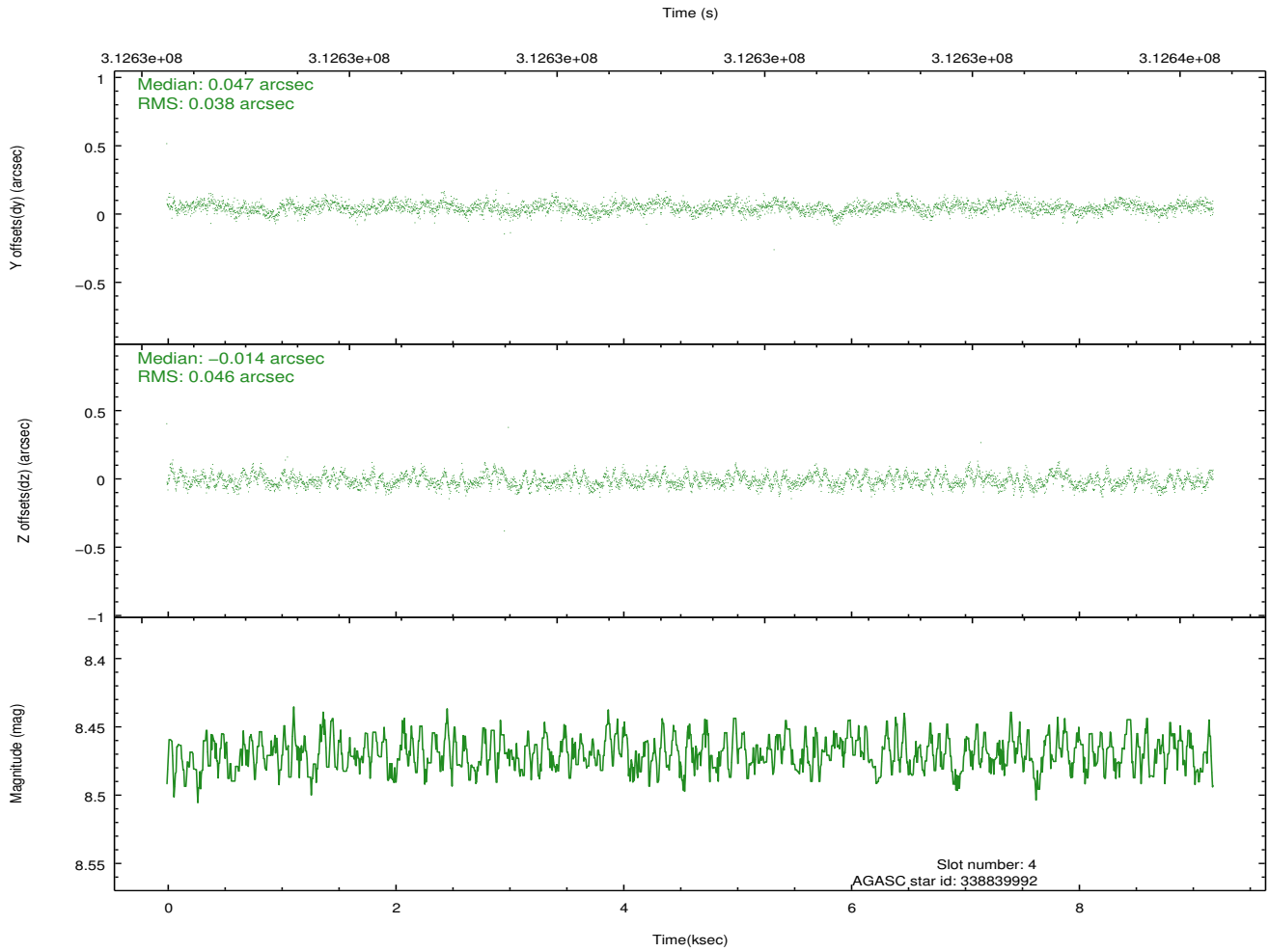
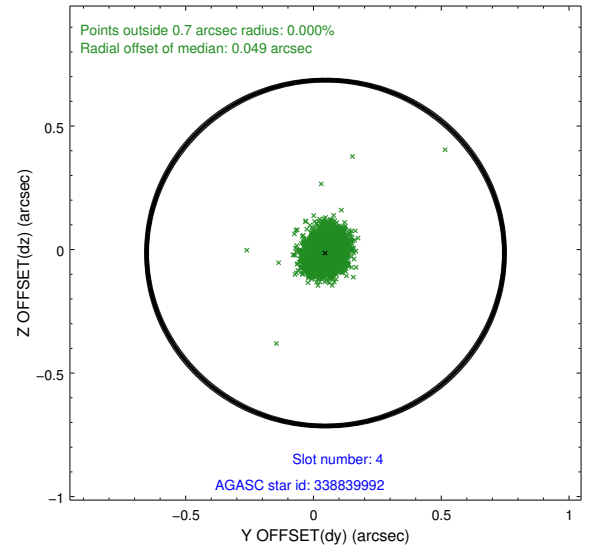
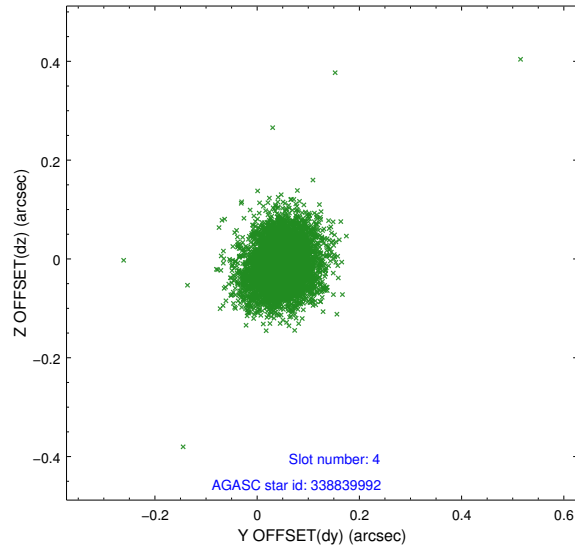
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	2242	-0.000	-0.090	0.008	0.015	0.000000	0.000000	925.07	-840.37
1	FID	ACIS-I-4	7.15	2238	0.146	0.086	0.008	0.013	0.000000	0.000000	2145.60	1059.30
2	FID	ACIS-I-5	7.21	2240	-0.244	0.075	0.007	0.012	0.000000	0.000000	-1822.40	1057.84
3	GUIDE	338835264	7.88	4482	-0.155	0.044	0.056	0.092	251.919565	34.226279	1037.69	-1932.09
4	GUIDE	338839992	8.47	4481	0.047	-0.014	0.062	0.100	251.528053	34.360854	-198.23	-1681.26
5	GUIDE	339218416	9.19	4478	0.051	0.031	0.081	0.130	251.185123	35.007242	-1634.97	411.53
6	GUIDE	340395680	8.18	4481	0.109	-0.089	0.100	0.165	252.253826	34.071772	2123.02	-2281.91
7	GUIDE	340401160	9.34	4477	-0.059	0.019	0.096	0.149	252.460112	35.243739	1883.75	1973.80

2.4 Star Slots

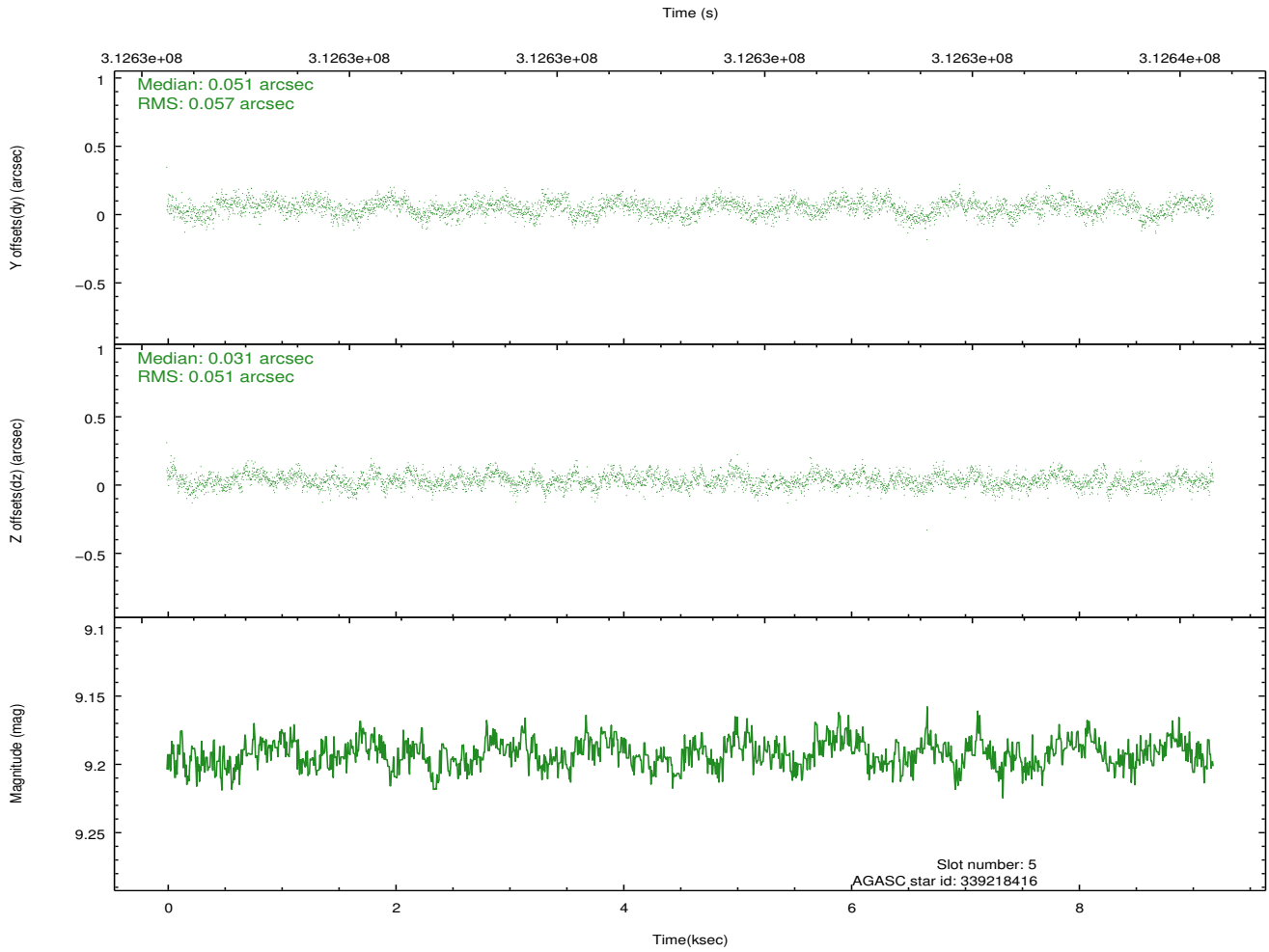
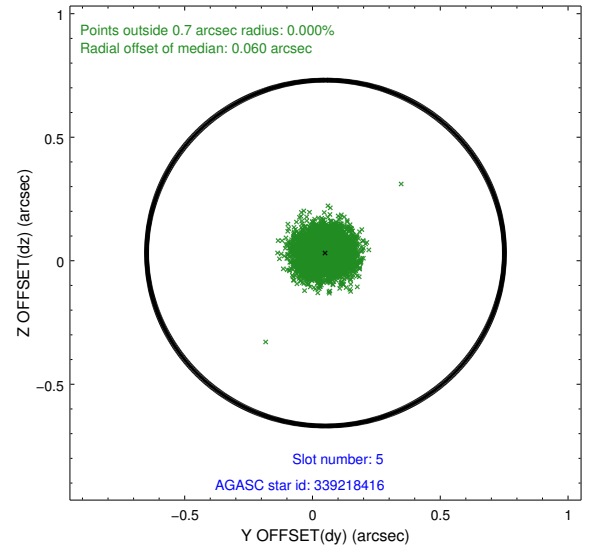
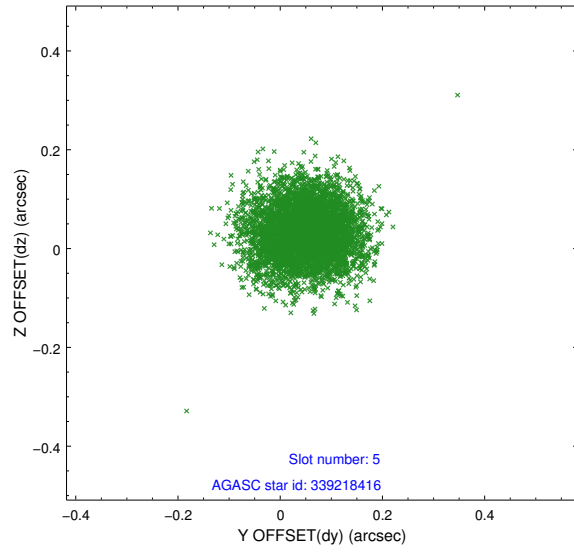
2.4.1 Slot 3



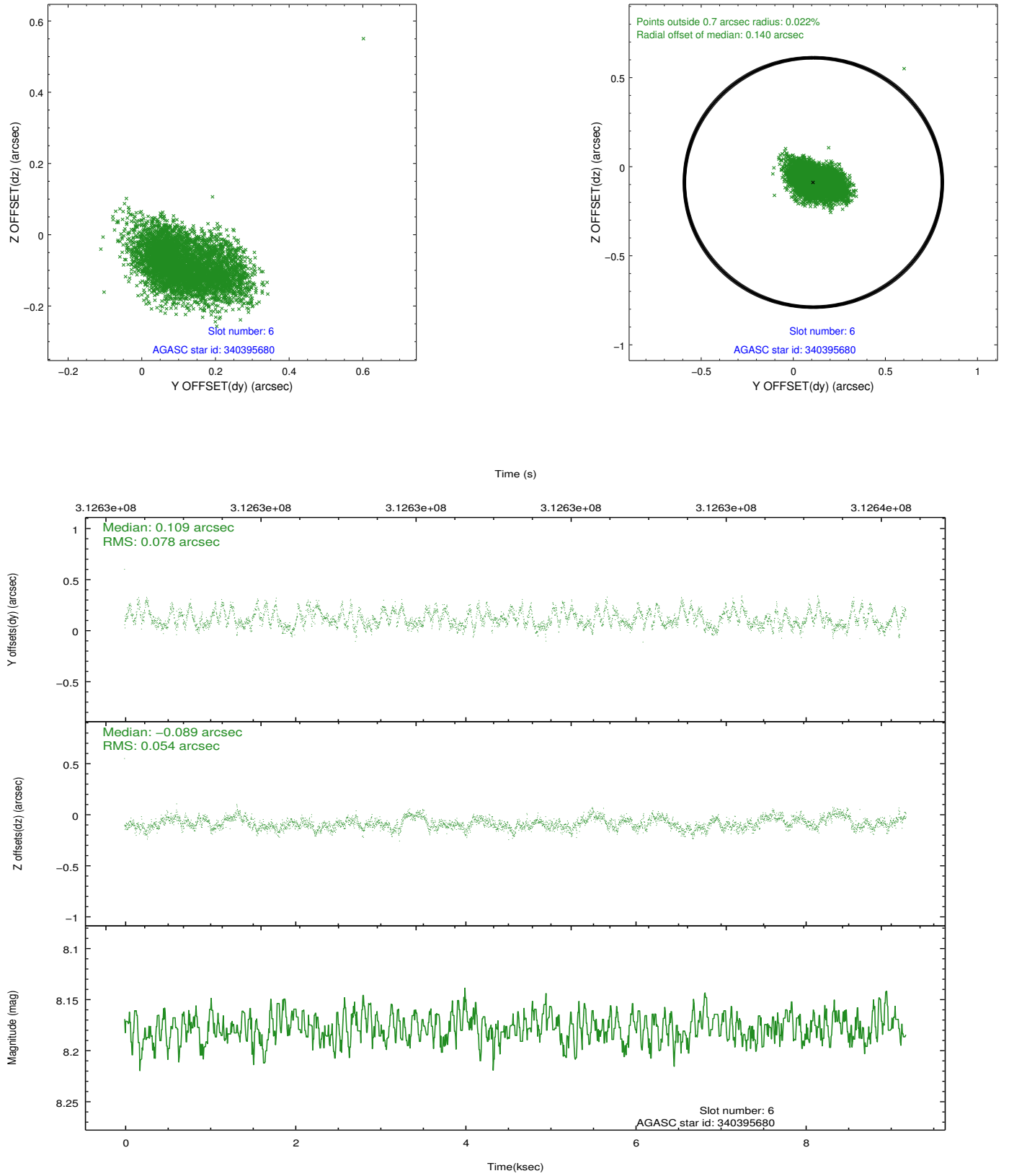
2.4.2 Slot 4



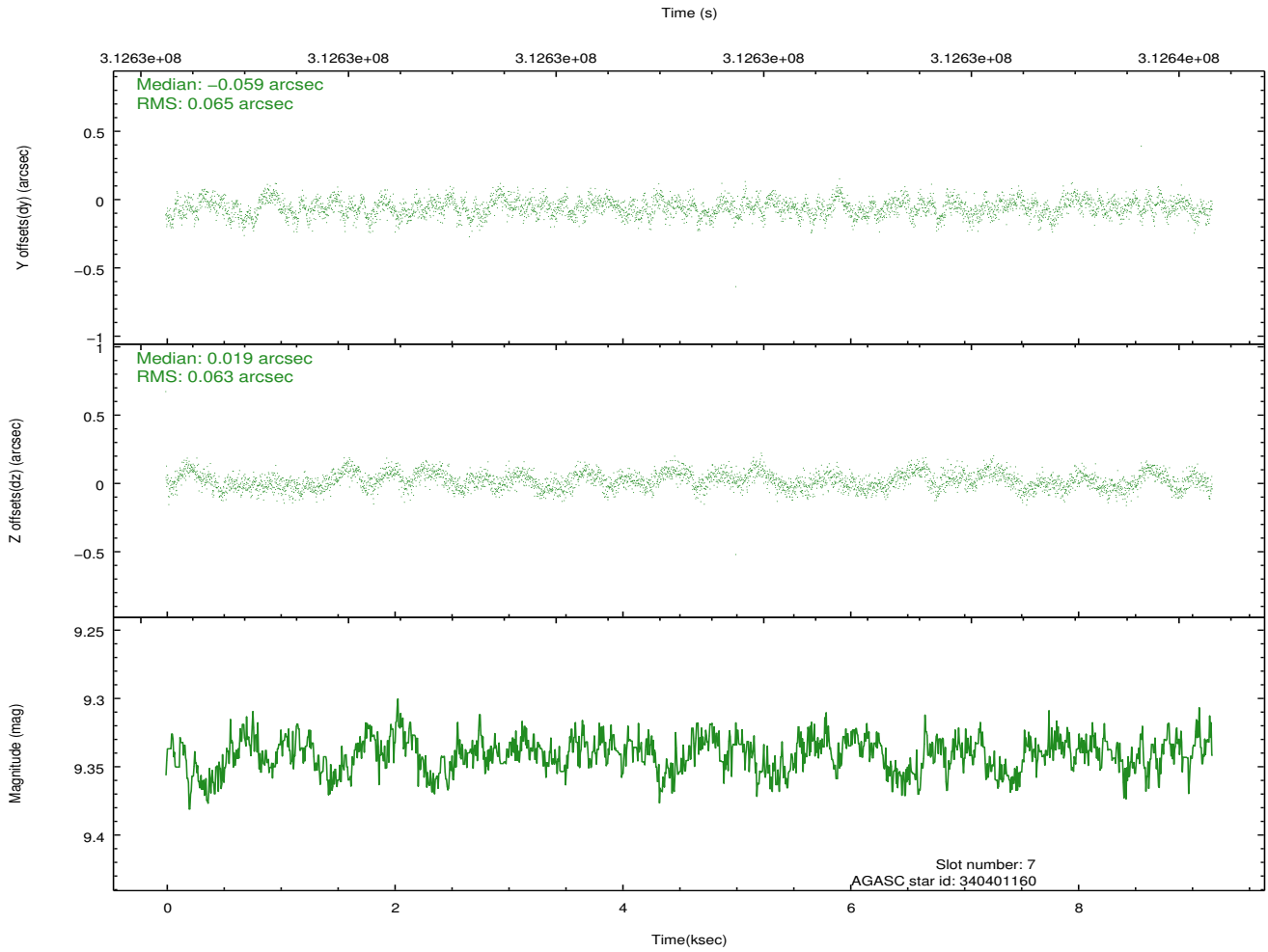
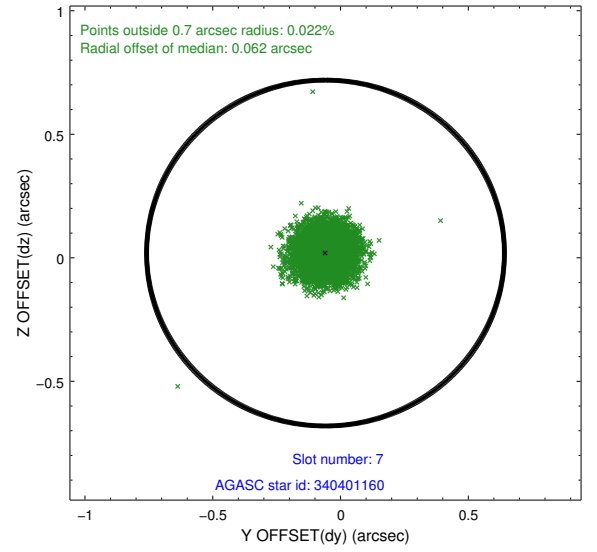
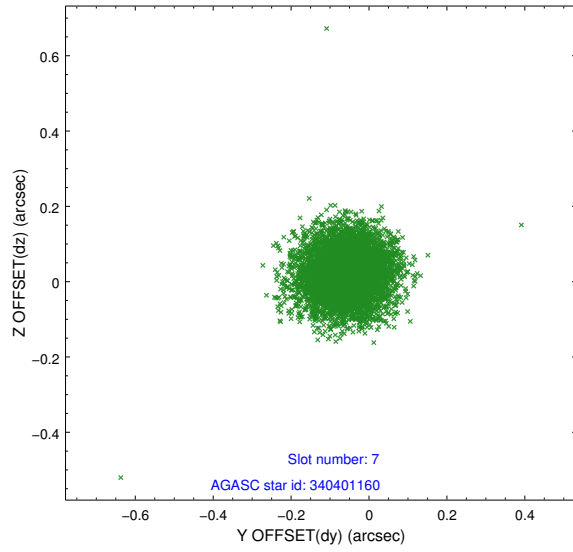
2.4.3 Slot 5



2.4.4 Slot 6

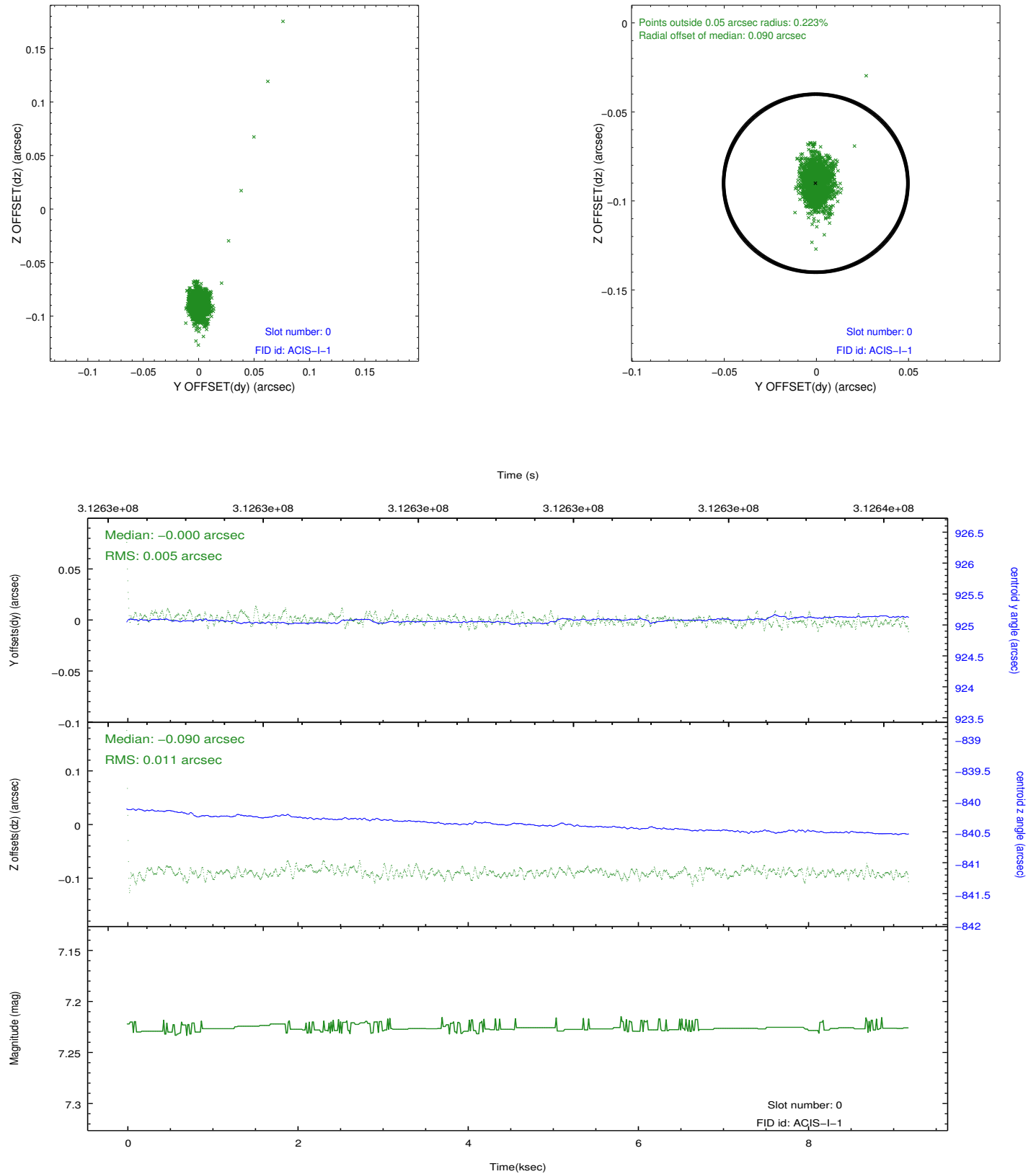


2.4.5 Slot 7

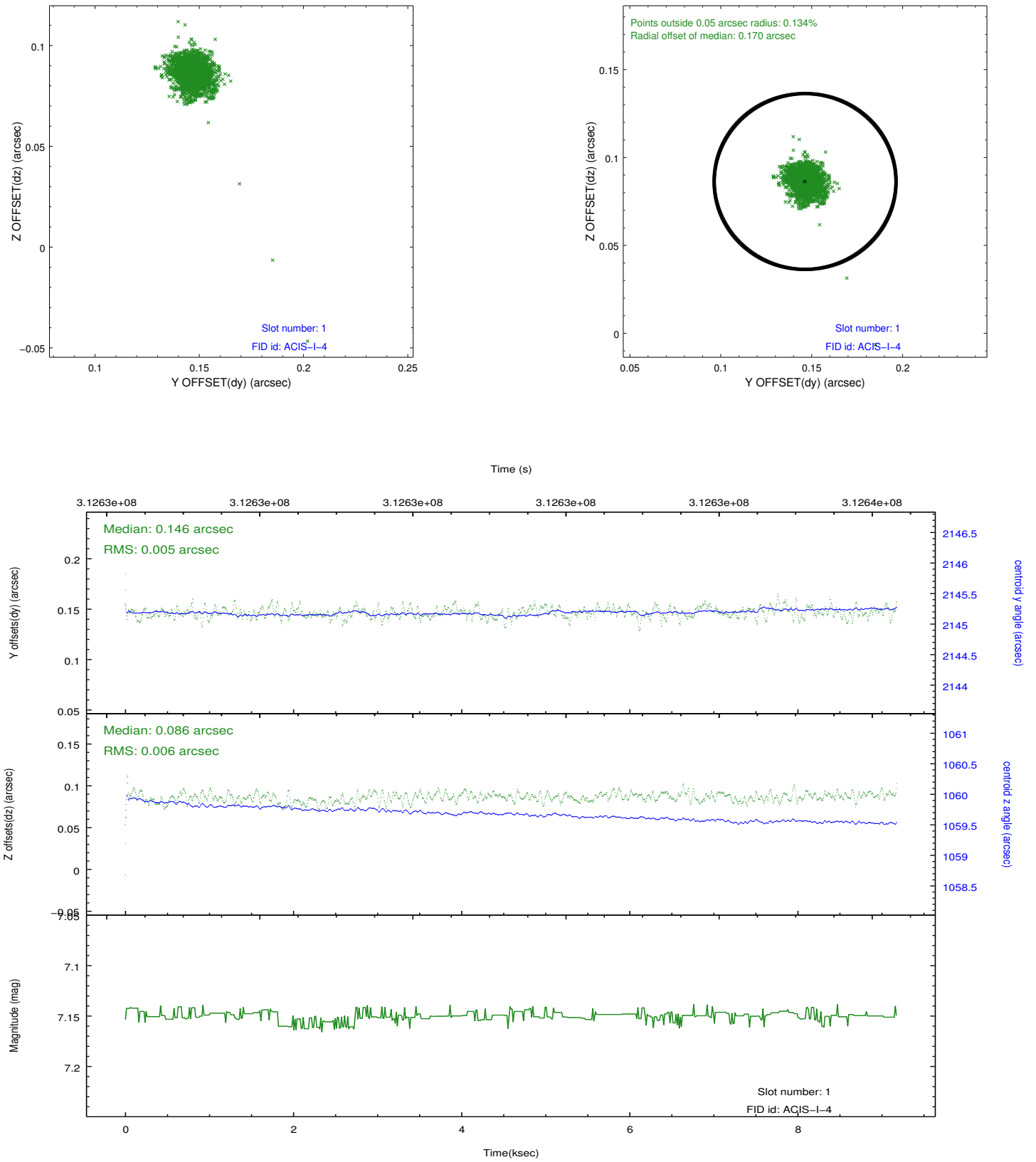


2.5 FID Slots

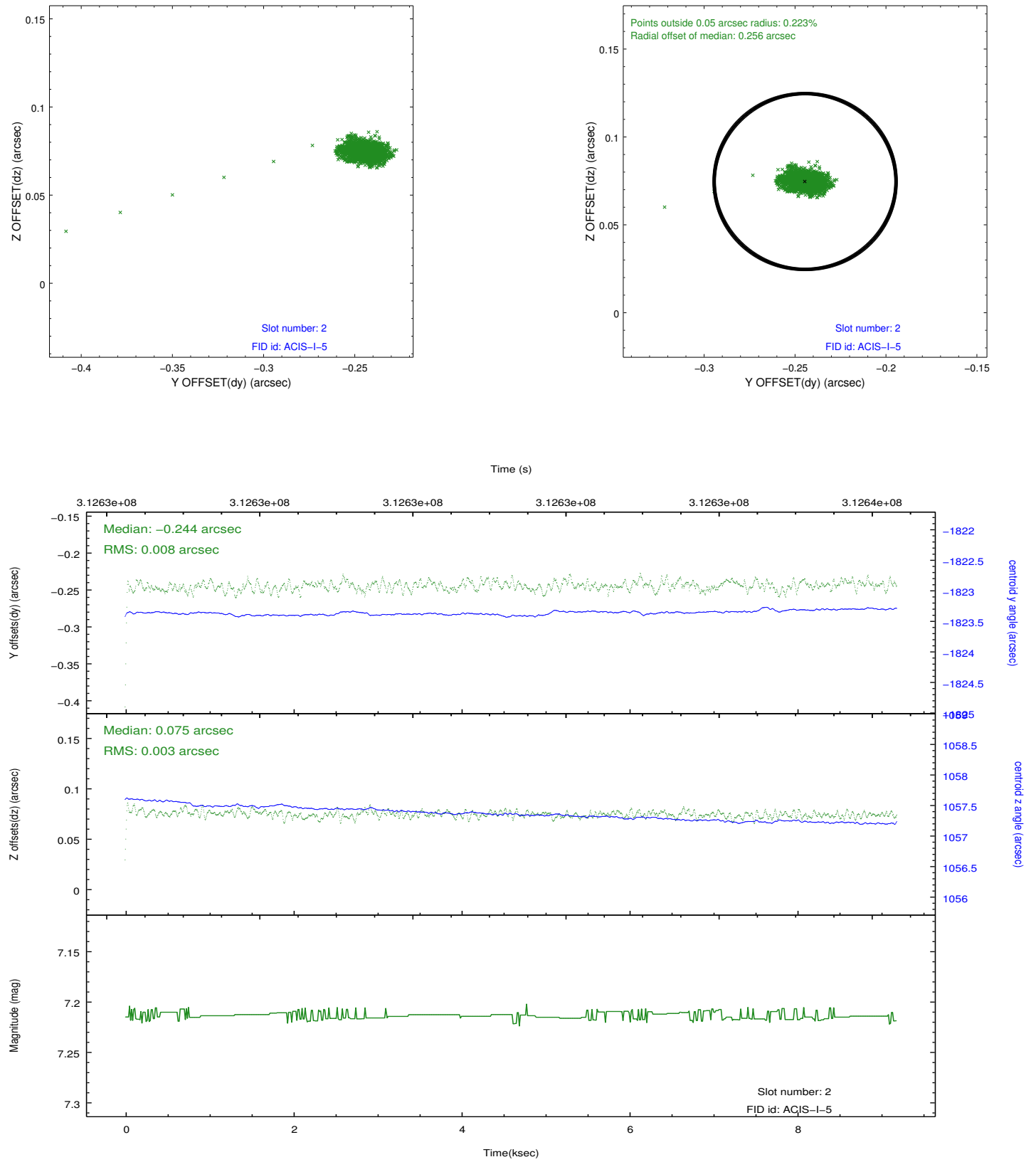
2.5.1 Slot 0



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)	2012.05.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.76990006

A.2 Comments

A spatial region of the original bias map for CCD = 2 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~ 20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 2 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:
(251.93161,34.90595), (251.93434,34.91760), (251.76732,34.94411), (251.76461,34.93246)