

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 10553 - L2 Version 2
Chandra X-Ray Center

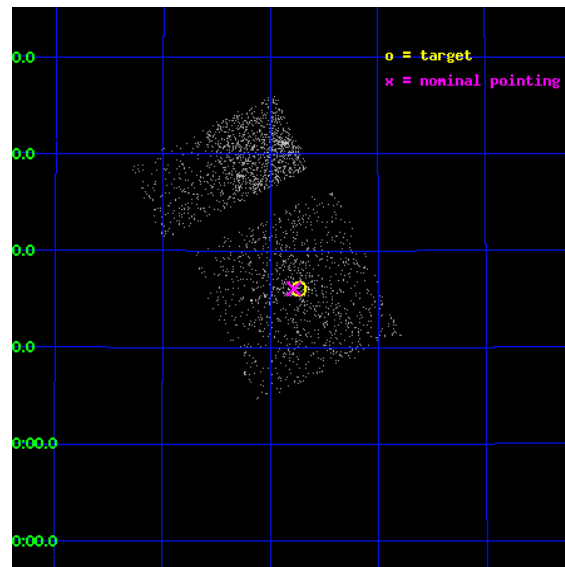
L2 Processing Date : Jun 2 2012

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1 Front

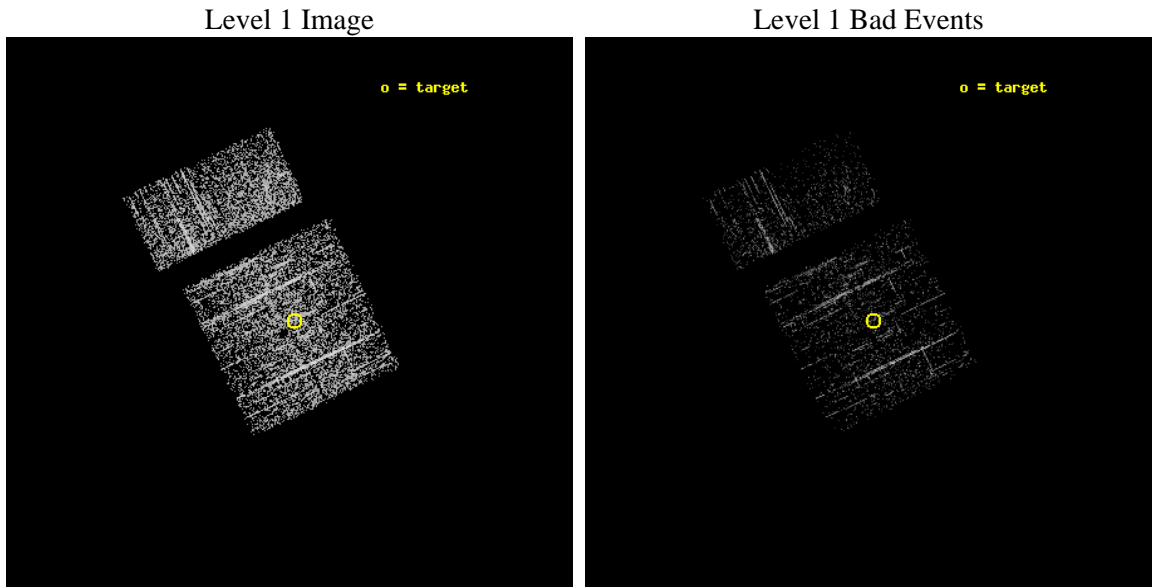
seq_num	600746	Sequence number
obs_id	10553	Observation id
title	Monitoring M31 for BHXNe	Proposal title
observer	Dr. Michael Garcia	Principal investigator
object	M31	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.695642957588	Nominal RA [deg]
dec_nom	41.267873909133	Nominal Dec [deg]
roll_nom	334.41364268681	Nominal Roll [deg]
revision	2	Processing version of data
ontime	972.51147979498	Sum of GTIs [s]
livetime	153.09676542677	Livetime [s]
ontime0	972.51147979498	Sum of GTIs [s]
ontime1	972.51147979498	Sum of GTIs [s]
ontime2	972.51148974895	Sum of GTIs [s]
ontime3	972.51147979498	Sum of GTIs [s]
ontime6	972.51147979498	Sum of GTIs [s]
ontime7	972.51148974895	Sum of GTIs [s]
l2events	2838	Number of level 2 events



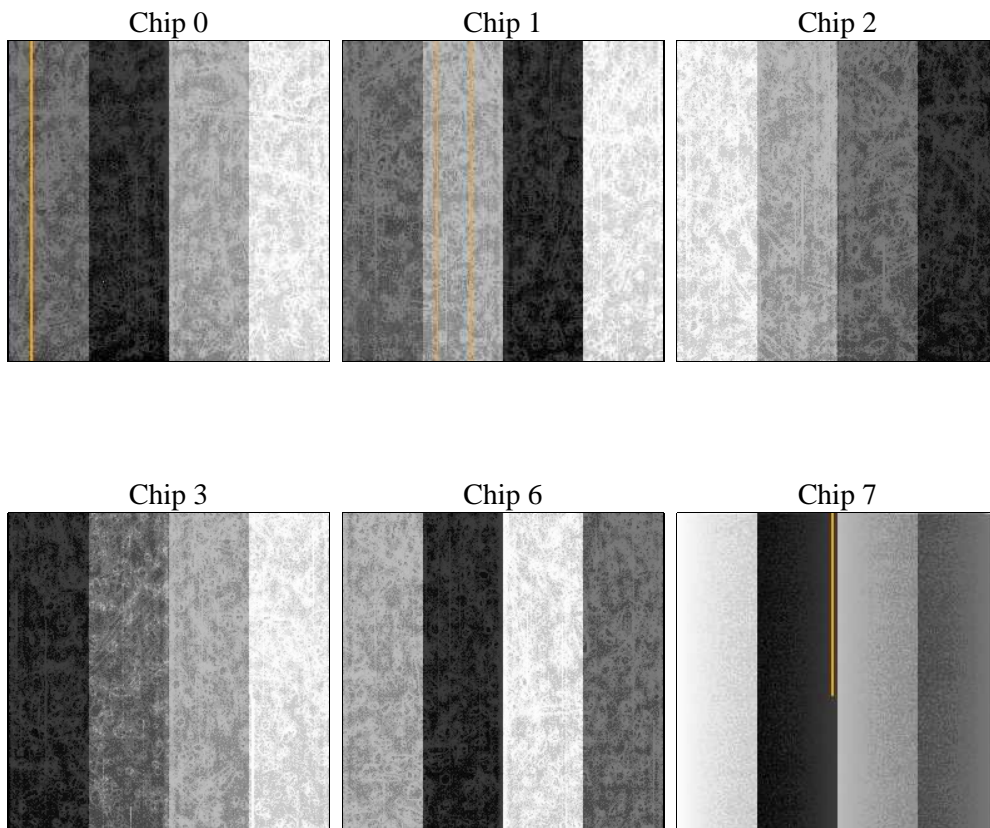
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	972.51147979498	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	972.51147979498	Sum of GTIs [s]
date	2012-06-02T01:38:00	Date and time of file creation	ontime1	972.51147979498	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	972.51148974895	Sum of GTIs [s]
			ontime3	972.51147979498	Sum of GTIs [s]
			ontime6	972.51147979498	Sum of GTIs [s]
			ontime7	972.51148974895	Sum of GTIs [s]
			l1events	26244	Number of level 1 events

2.1.4 Events

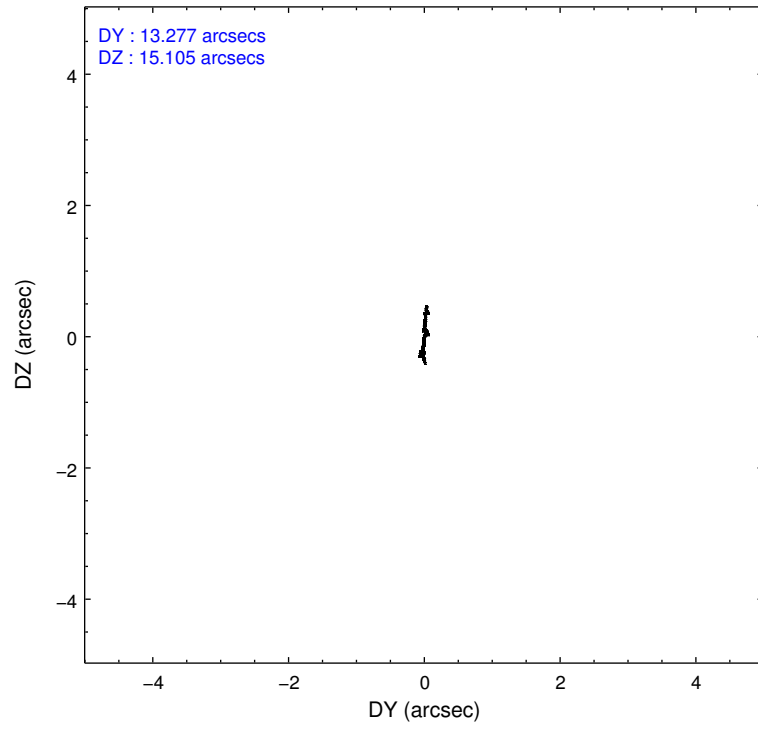
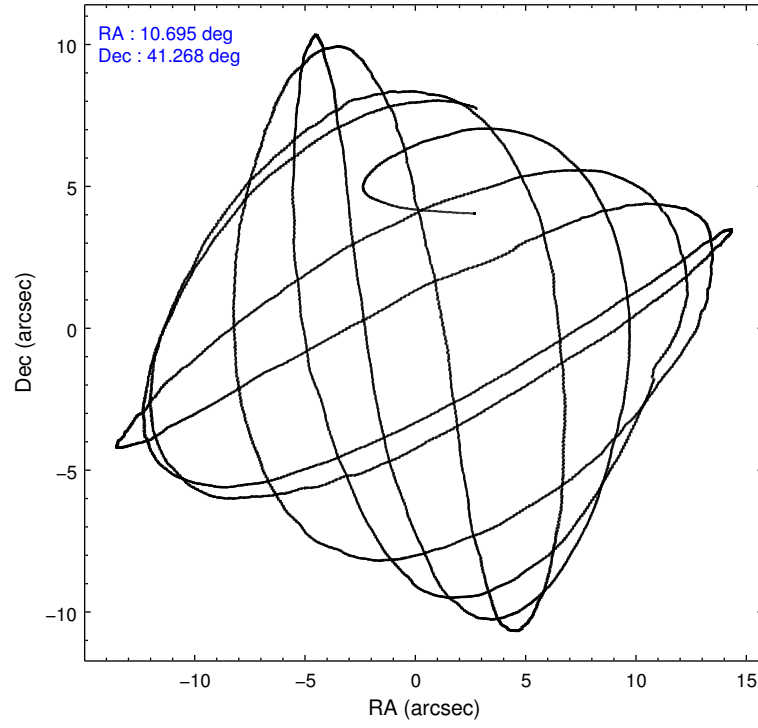
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	3893	4663	4789	4225	4679	3995
rejected events	3555	4167	4344	3789	4345	2772
rejected %	91%	89%	90%	89%	92%	69%

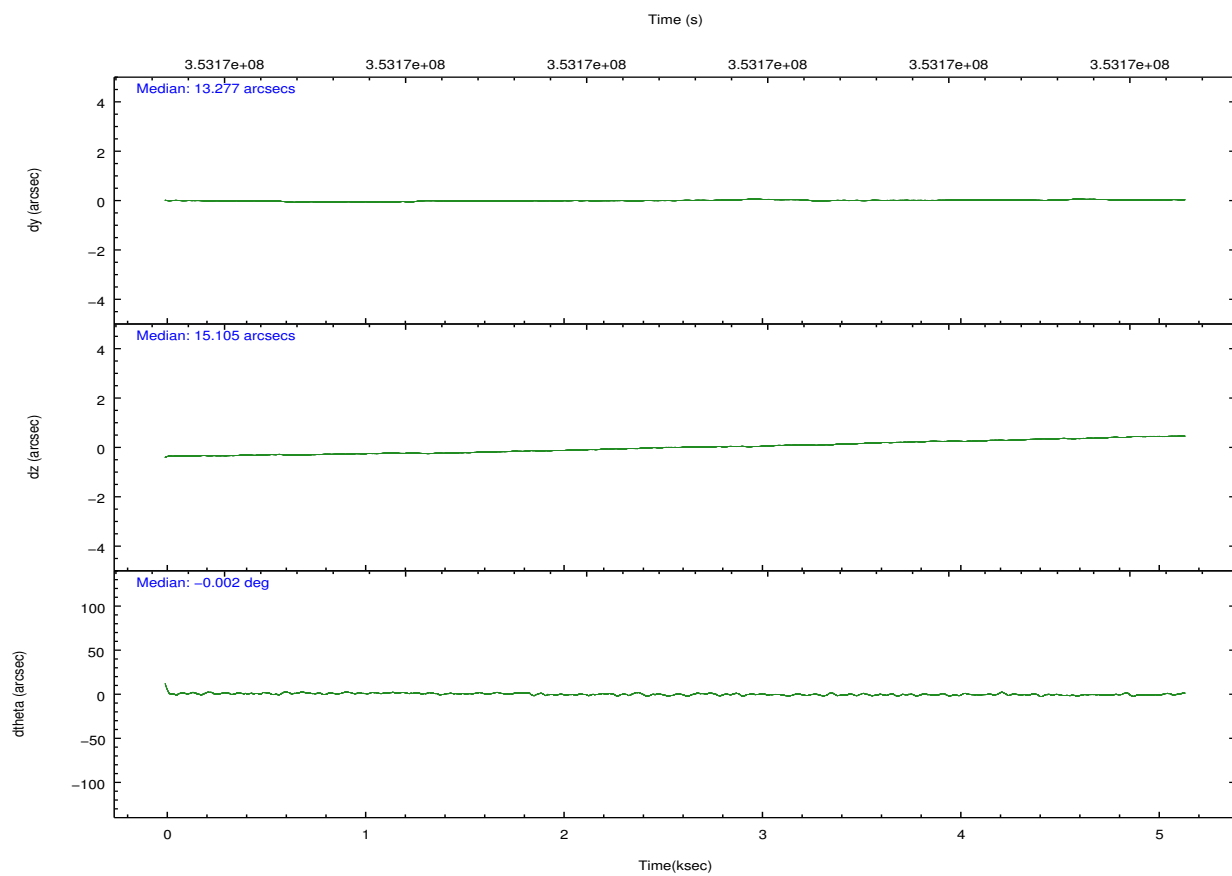
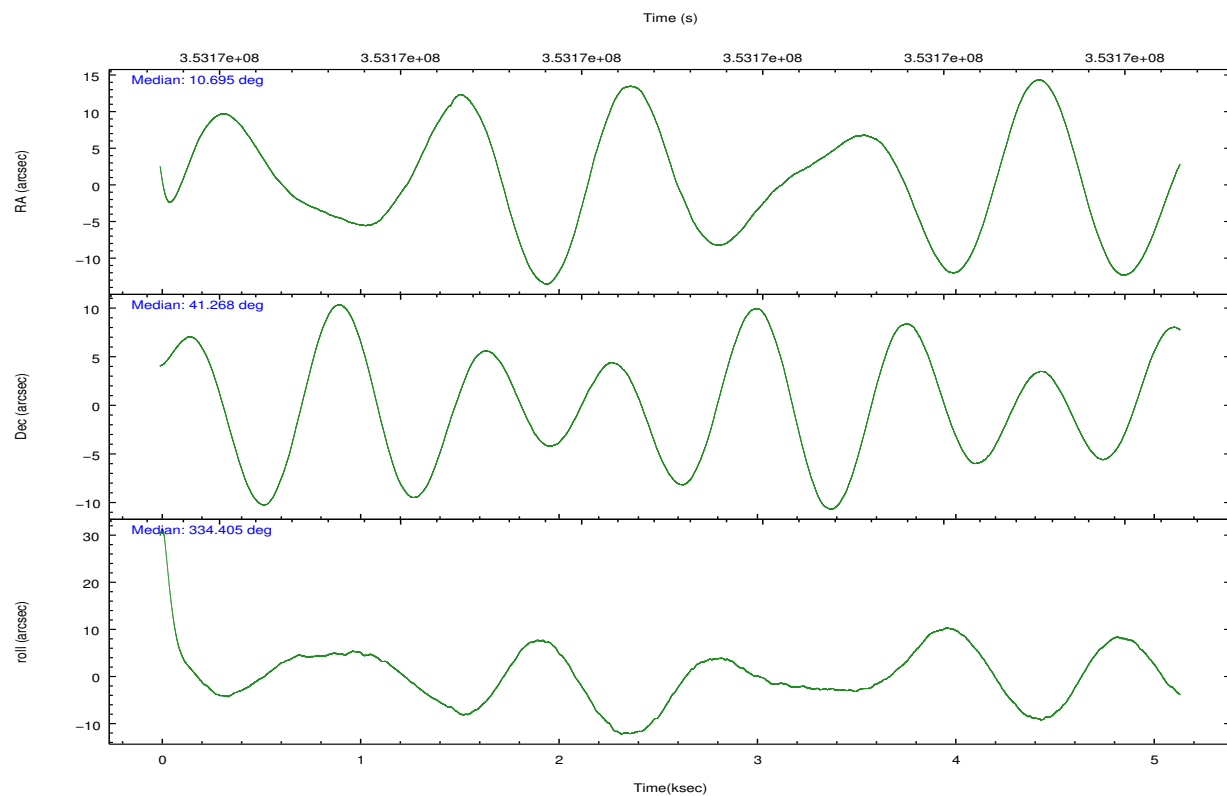
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	115	252	204	183	97	157
	2%	5%	4%	4%	2%	3%
grade 1 events	1	5	5	7	2	10
	0%	0%	0%	0%	0%	0%
grade 2 events	74	93	110	96	78	286
	1%	1%	2%	2%	1%	7%
grade 3 events	46	49	47	60	55	118
	1%	1%	0%	1%	1%	2%
grade 4 events	56	55	62	58	41	124
	1%	1%	1%	1%	0%	3%
grade 5 events	124	168	148	149	182	366
	3%	3%	3%	3%	3%	9%
grade 6 events	72	82	51	74	82	622
	1%	1%	1%	1%	1%	15%
grade 7 events	3405	3959	4162	3598	4142	2312
	87%	84%	86%	85%	88%	57%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	10.659184	10.69564295758823	CCD I2 on	Y	Y
[deg] Pointing Dec	41.265577	41.26787390913285	CCD I3 on	Y	Y
[deg] Pointing Roll	334.228941	334.4136426868123	CCD S0 on	N	N
[s] Window start time (MET)	352944066.184000	352944066.184000	CCD S1 on	N	N
[s] Window stop time (MET)	353548806.184000	353548806.184000	CCD S2 on	O2	Y
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S3 on	O1	Y
[mm] SIM defocus	0	0.001439871863259334	CCD S4 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S5 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	353169057.184000	353167742.10815	On-chip summing requested	N	N
Observation start date	2009-03-11T14:29:51	2009-03-11T14:09:02	Subarray requested	NONE	NONE
[s] Observation end time (MET)	353174057.184000	353174662.39599	Alternating exposures requested	Y	Y
Observation end date	2009-03-11T15:53:11	2009-03-11T16:04:22	[s] Primary exposure time	0.600000	0.6
Read mode	TIMED	TIMED	[s] Secondary exposure time	0.000000	3.2
			Duty cycle	5	5

2.3 Aspect



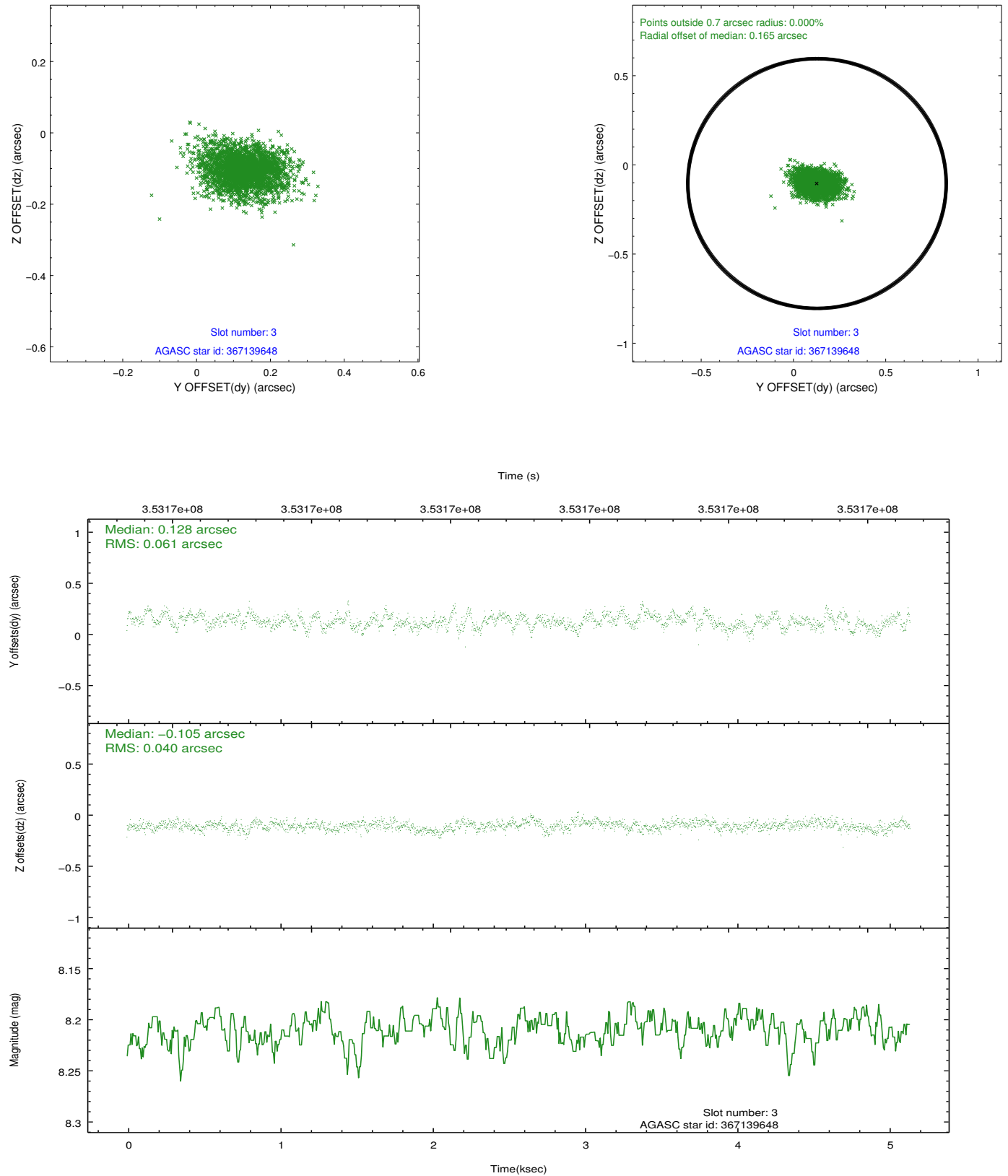


Slot Statistics

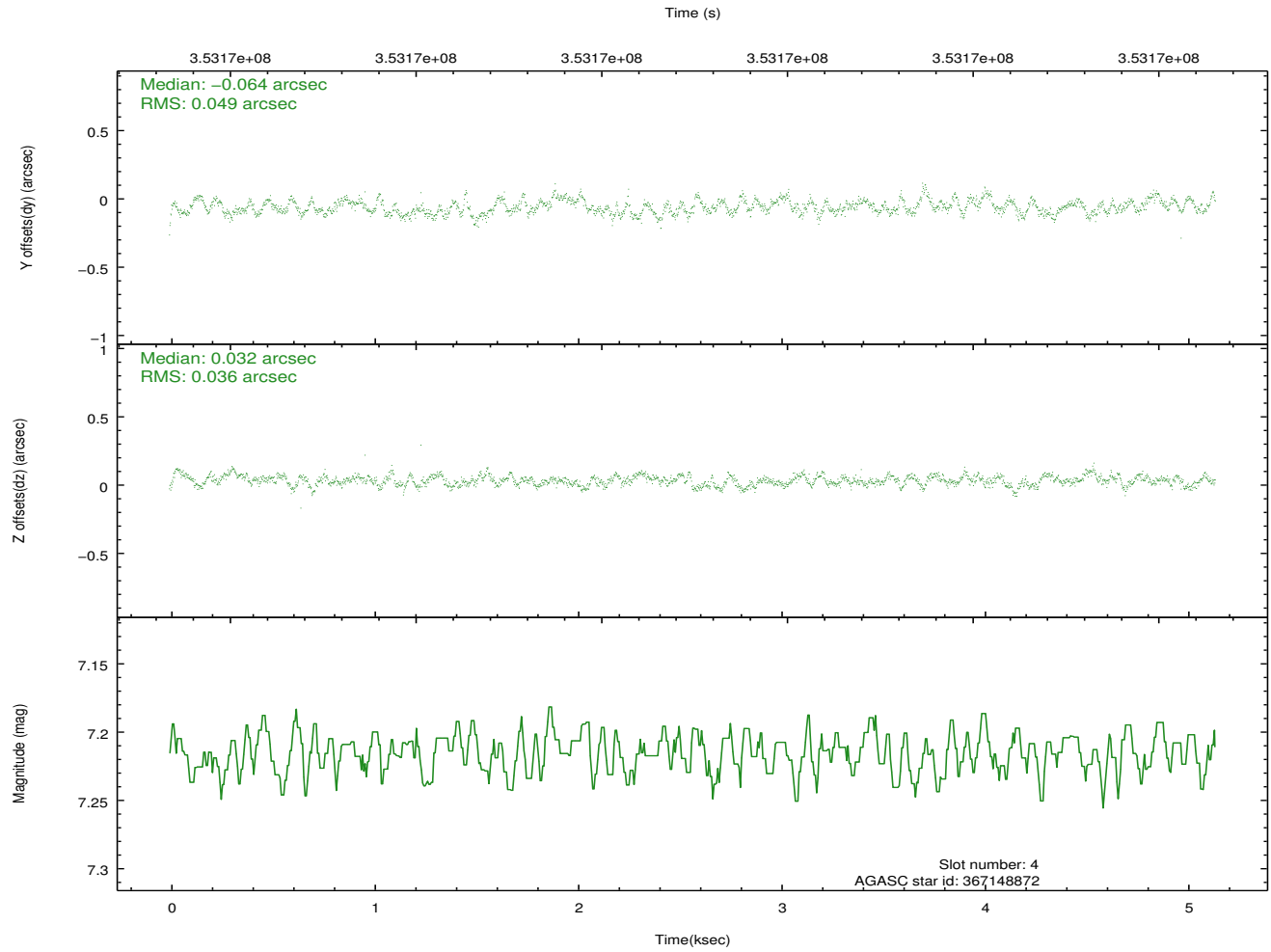
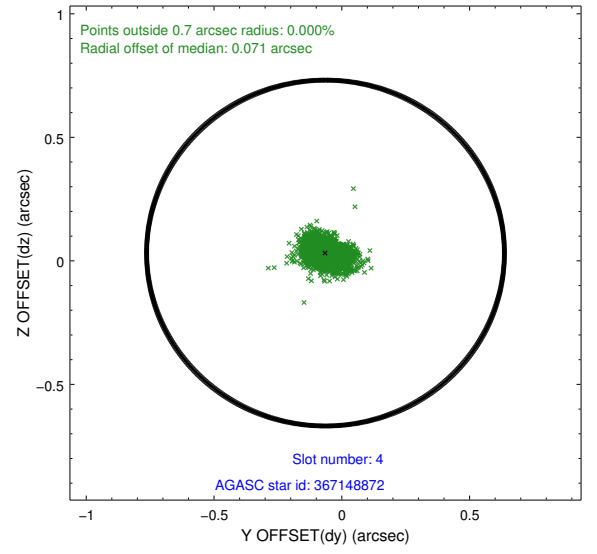
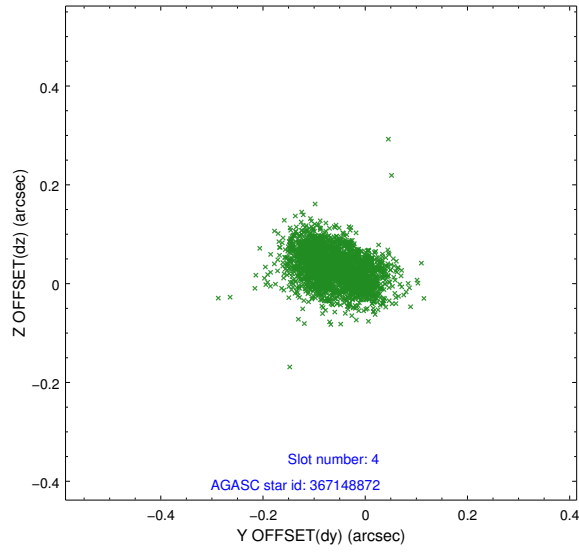
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.07	1254	-0.054	0.035	0.019	0.030	0.000000	0.000000	926.18	-838.67
1	FID	ACIS-I-2	6.99	1254	-0.162	-0.084	0.009	0.014	0.000000	0.000000	-767.37	-845.83
2	FID	ACIS-I-4	6.98	1254	0.118	0.117	0.012	0.019	0.000000	0.000000	2145.69	1060.61
3	GUIDE	367139648	8.21	2508	0.128	-0.105	0.076	0.127	11.021290	40.433909	2195.73	-2262.97
4	GUIDE	367148872	7.22	2509	-0.064	0.032	0.064	0.105	10.505940	40.688258	528.47	-2054.65
5	GUIDE	367657896	9.01	2505	0.075	-0.037	0.094	0.150	11.197765	41.313576	1234.98	792.07
6	GUIDE	367663272	9.29	2507	-0.020	0.086	0.089	0.146	10.656279	41.699429	-685.92	1402.68
7	GUIDE	367674552	8.83	2507	-0.122	0.025	0.079	0.125	11.016238	41.570845	387.32	1410.06

2.4 Star Slots

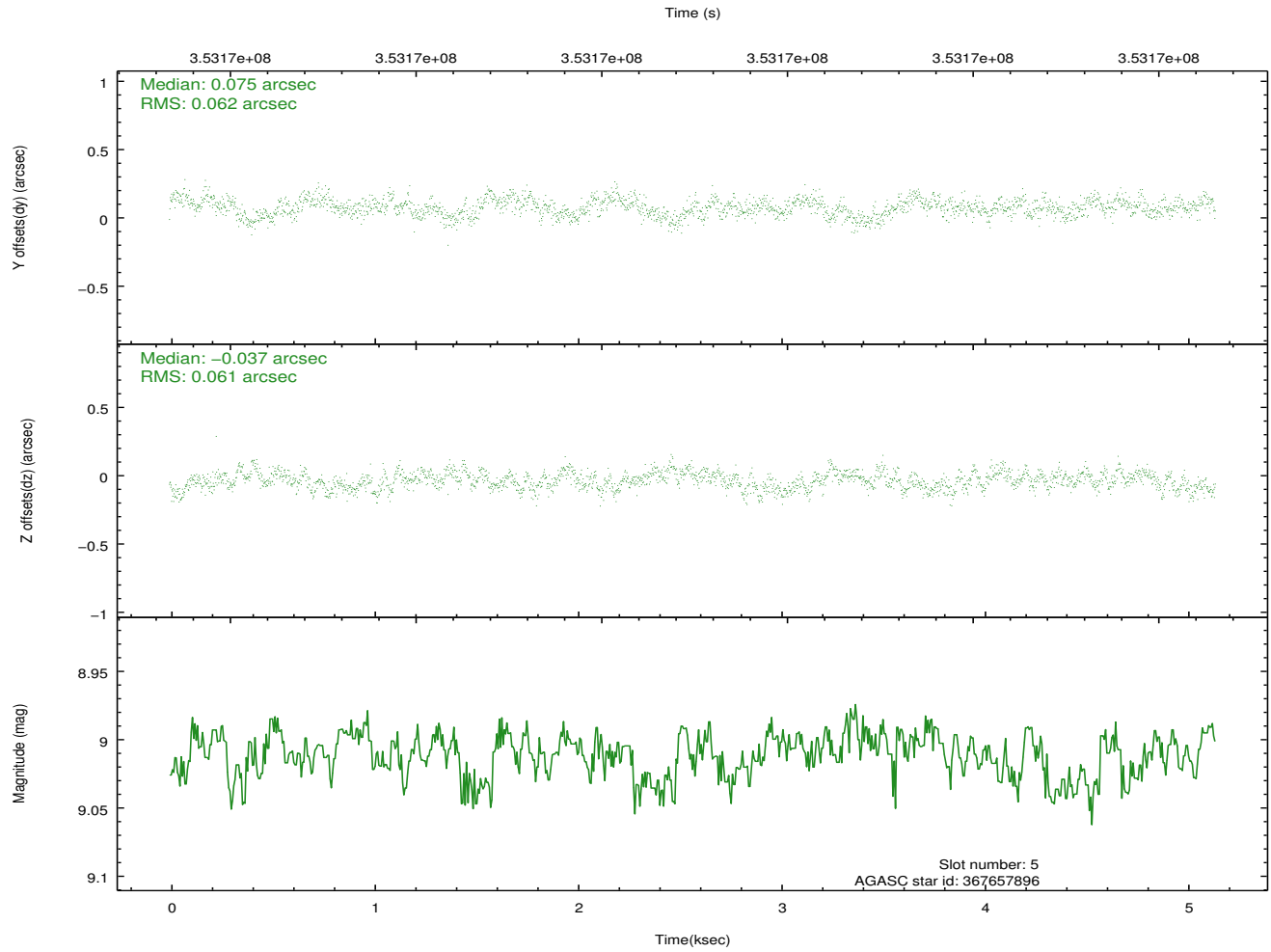
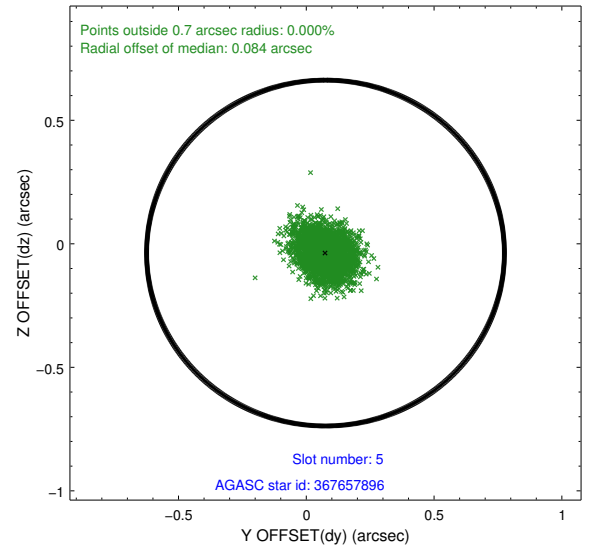
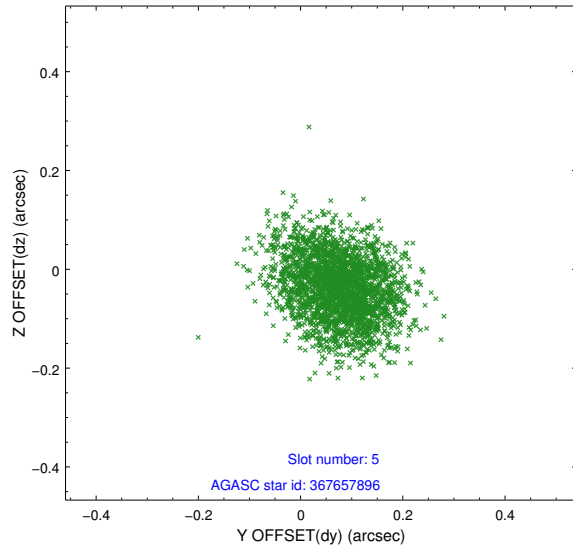
2.4.1 Slot 3



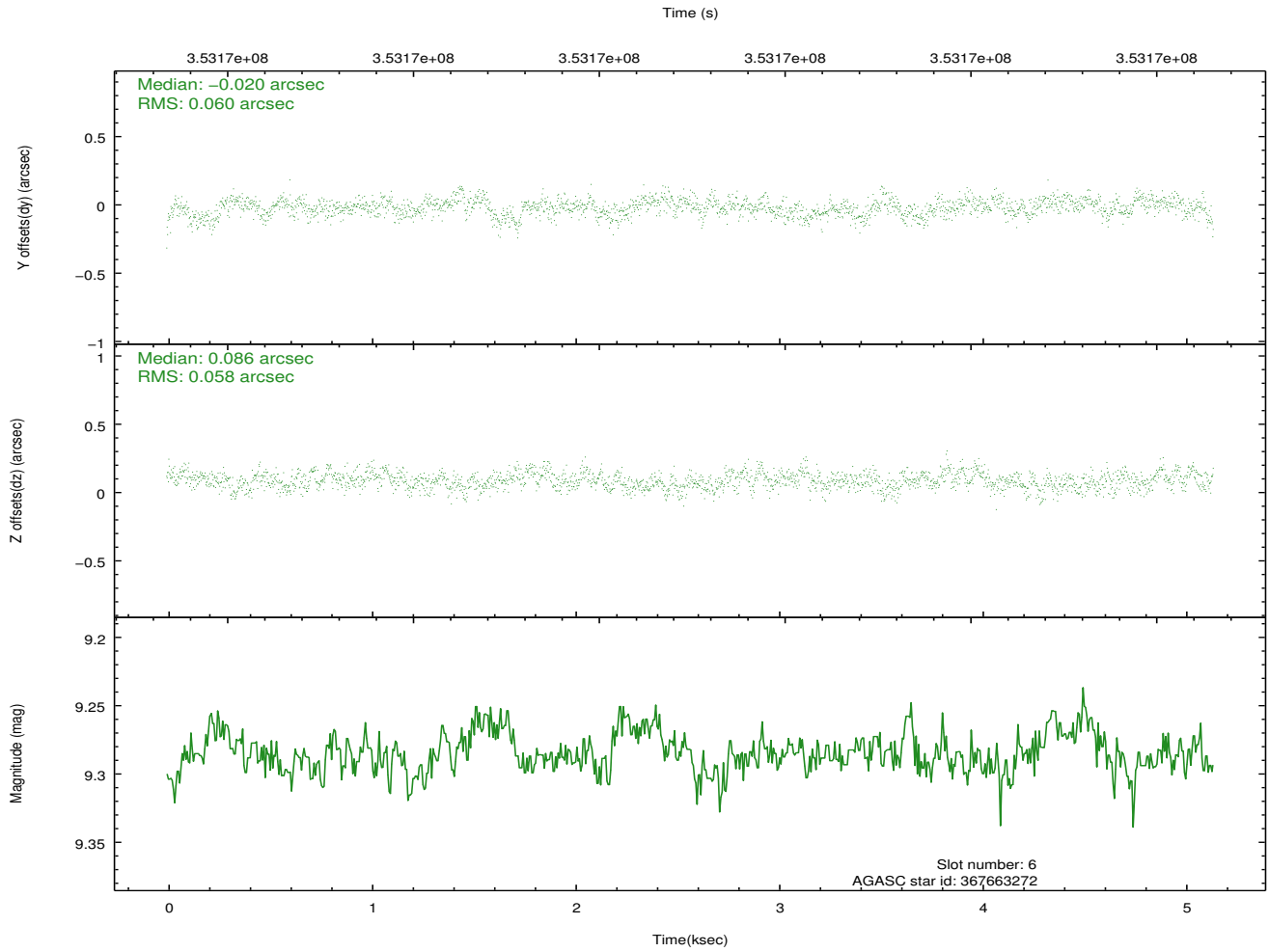
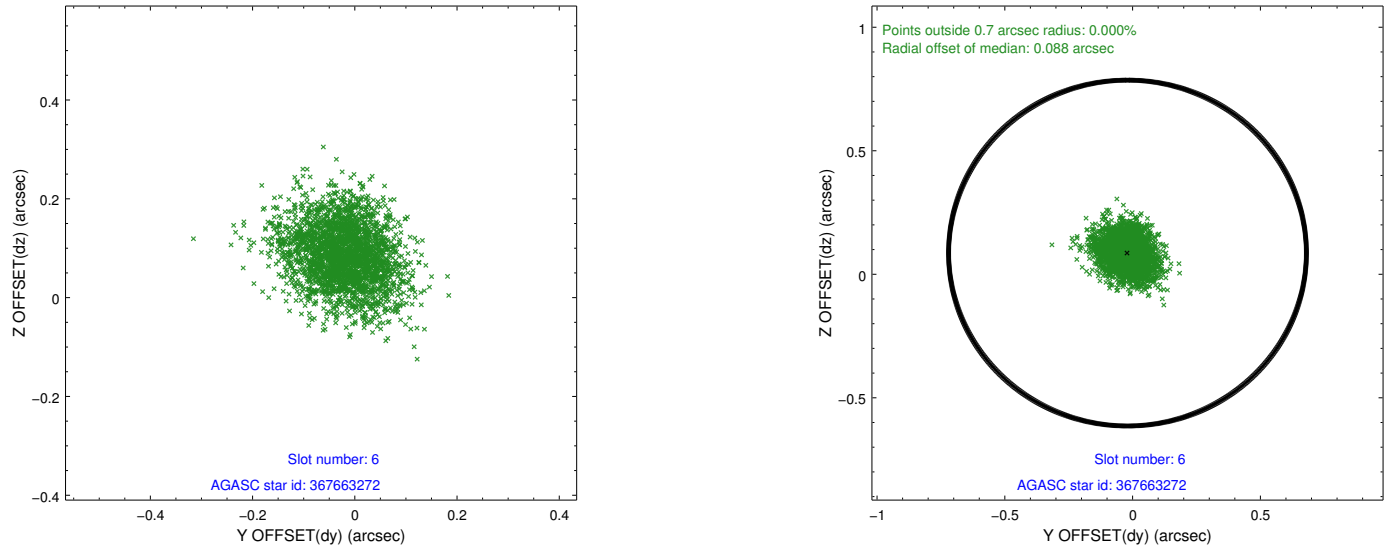
2.4.2 Slot 4



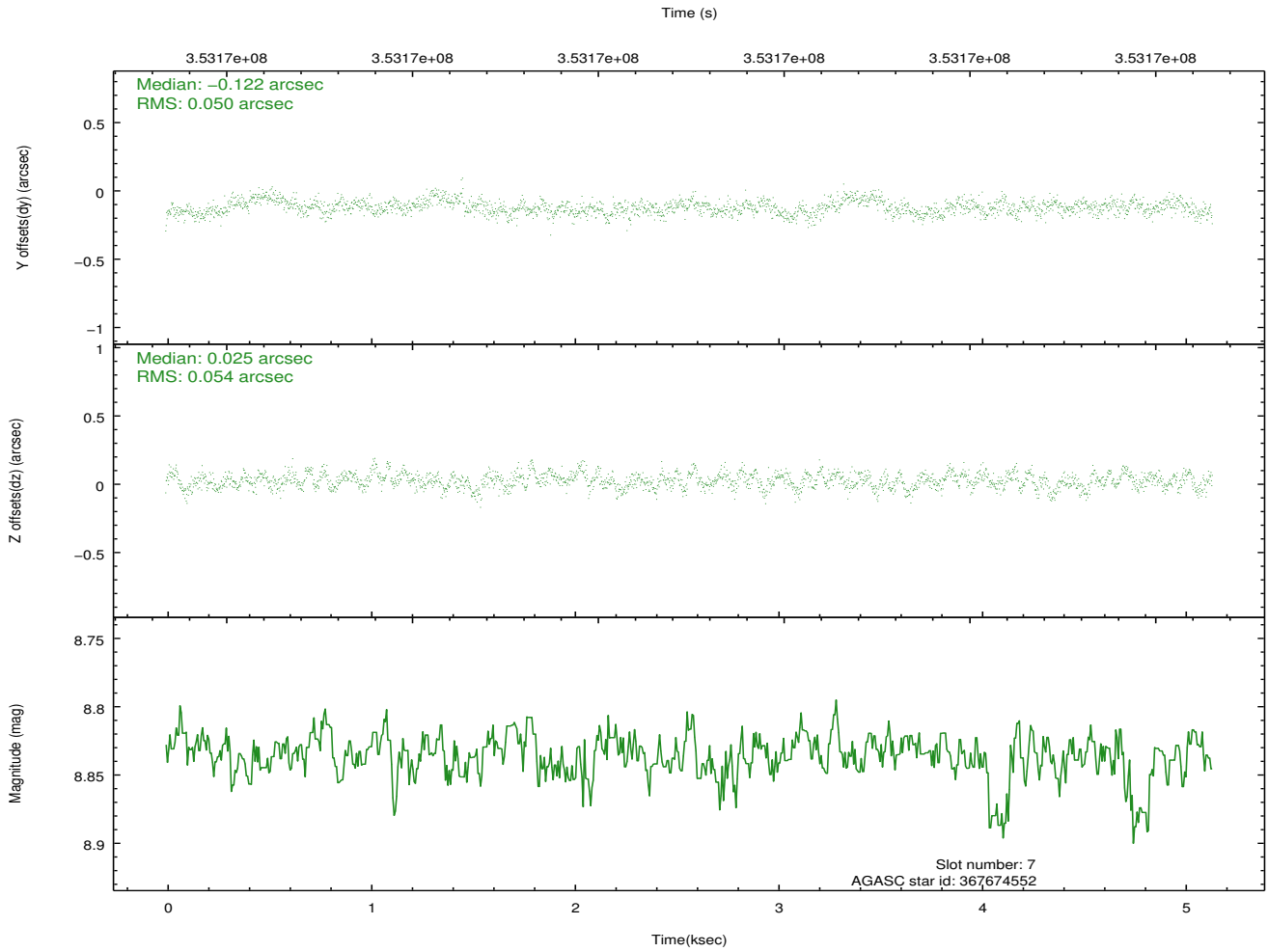
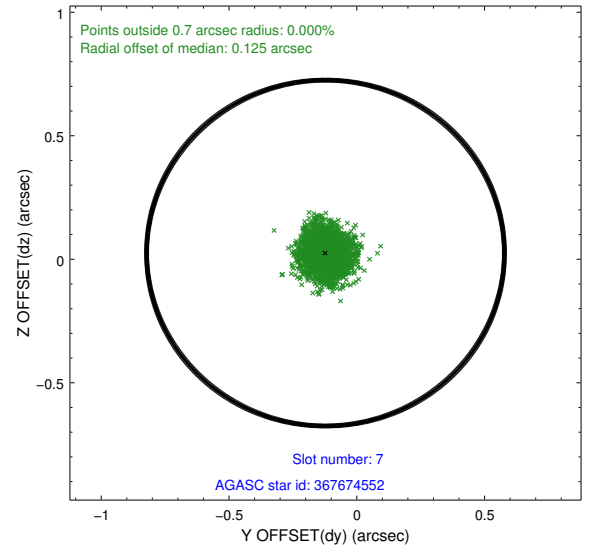
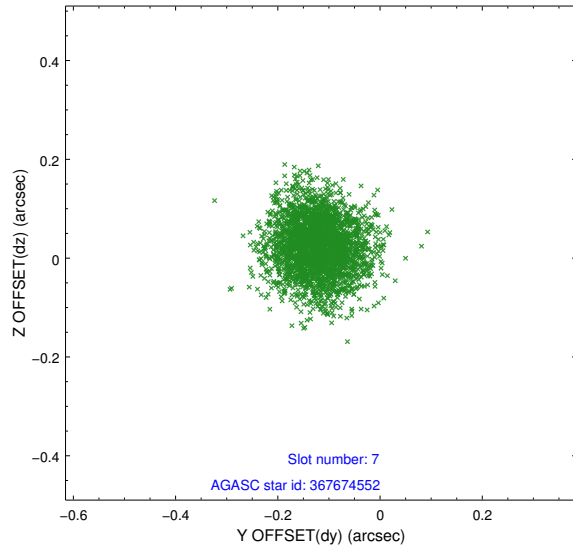
2.4.3 Slot 5



2.4.4 Slot 6

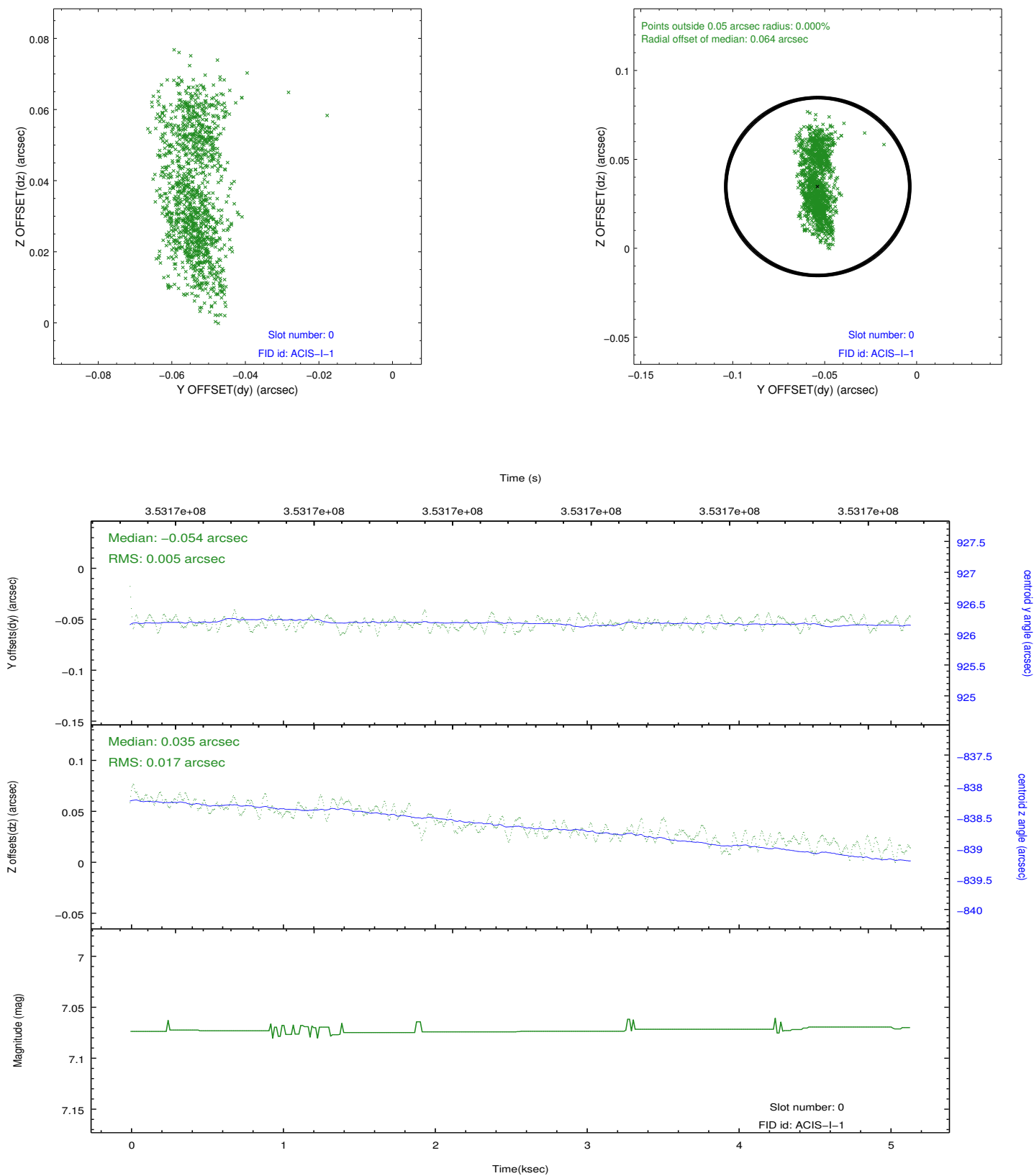


2.4.5 Slot 7

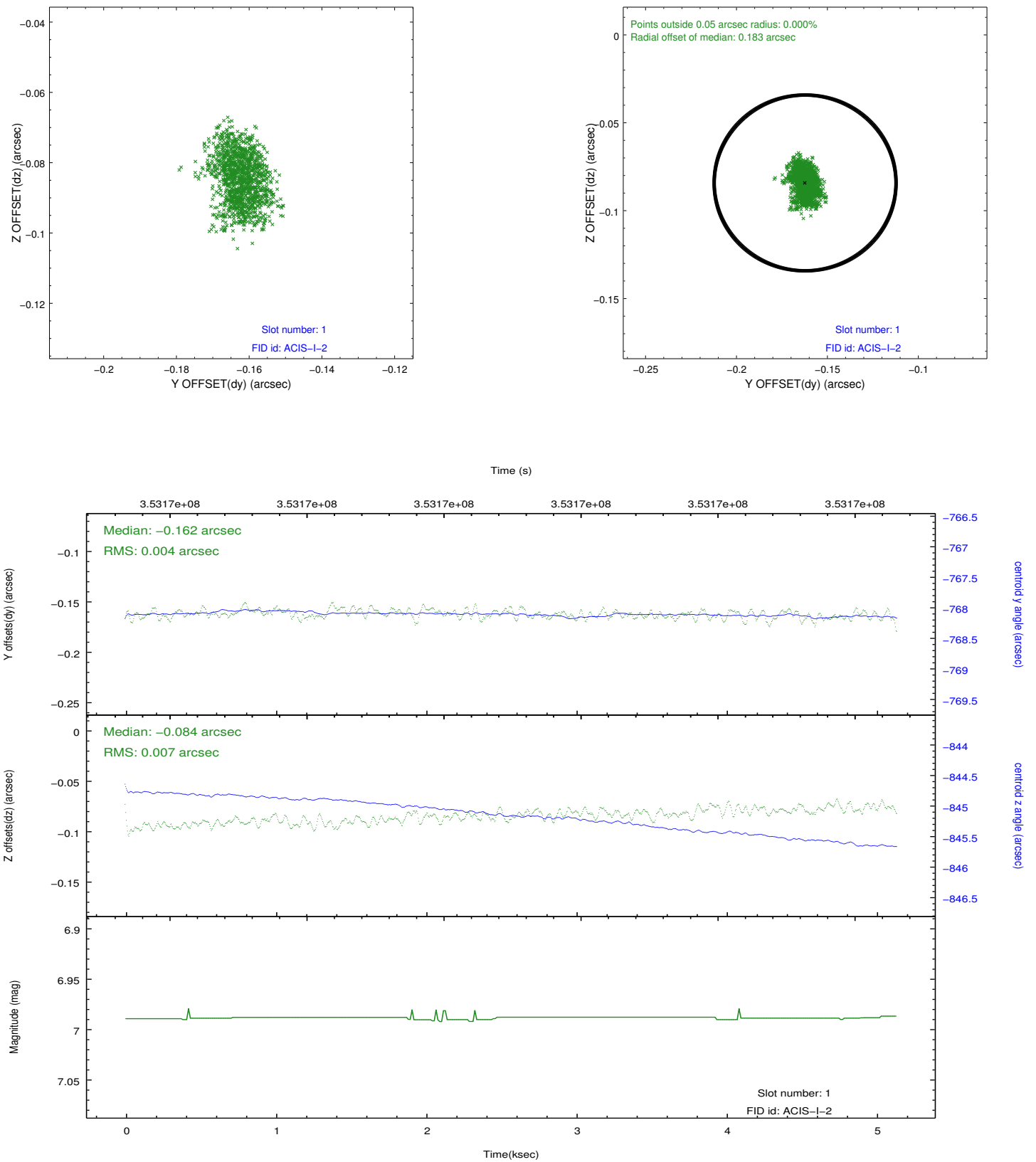


2.5 FID Slots

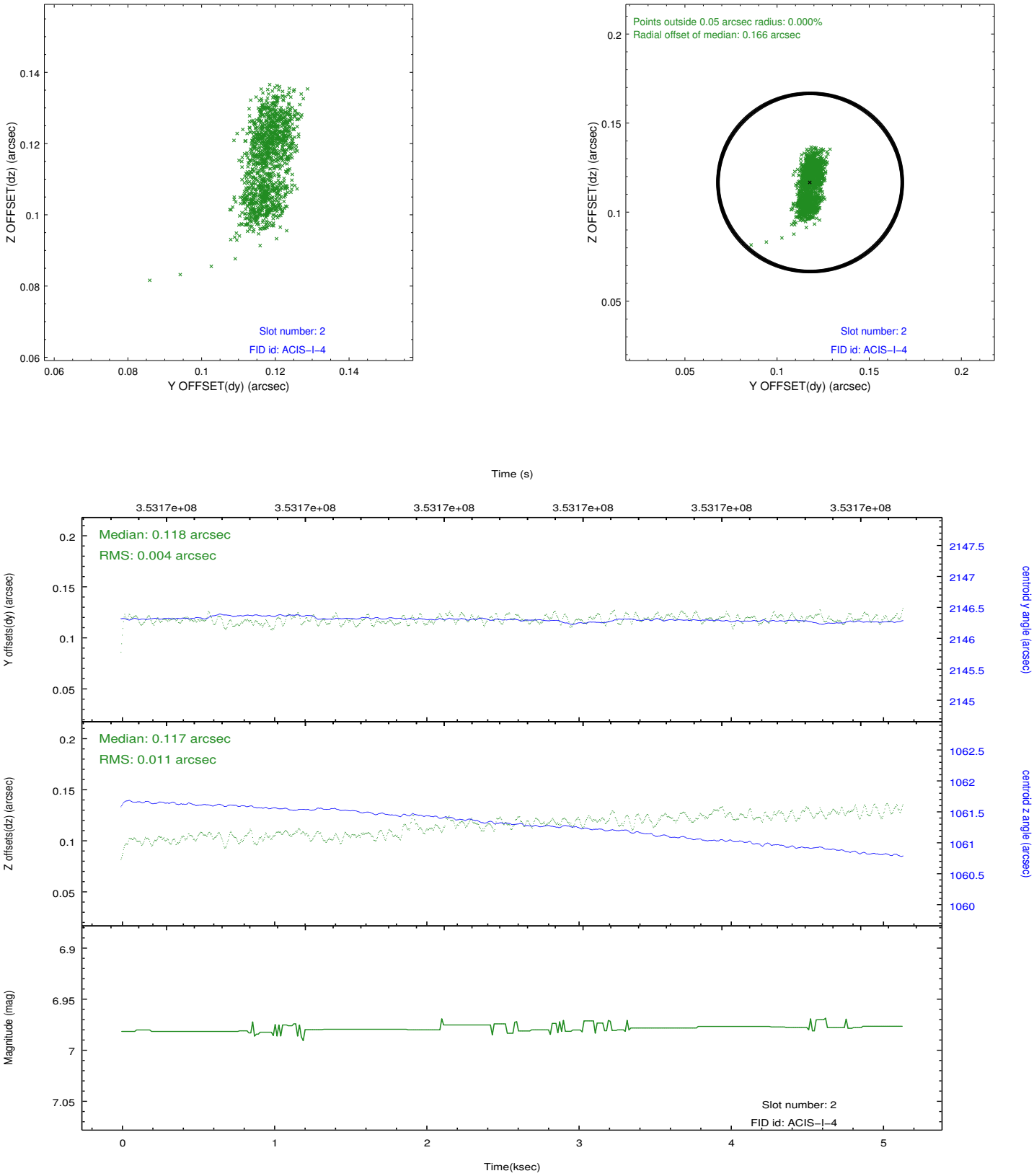
2.5.1 Slot 0



2.5.2 Slot 1



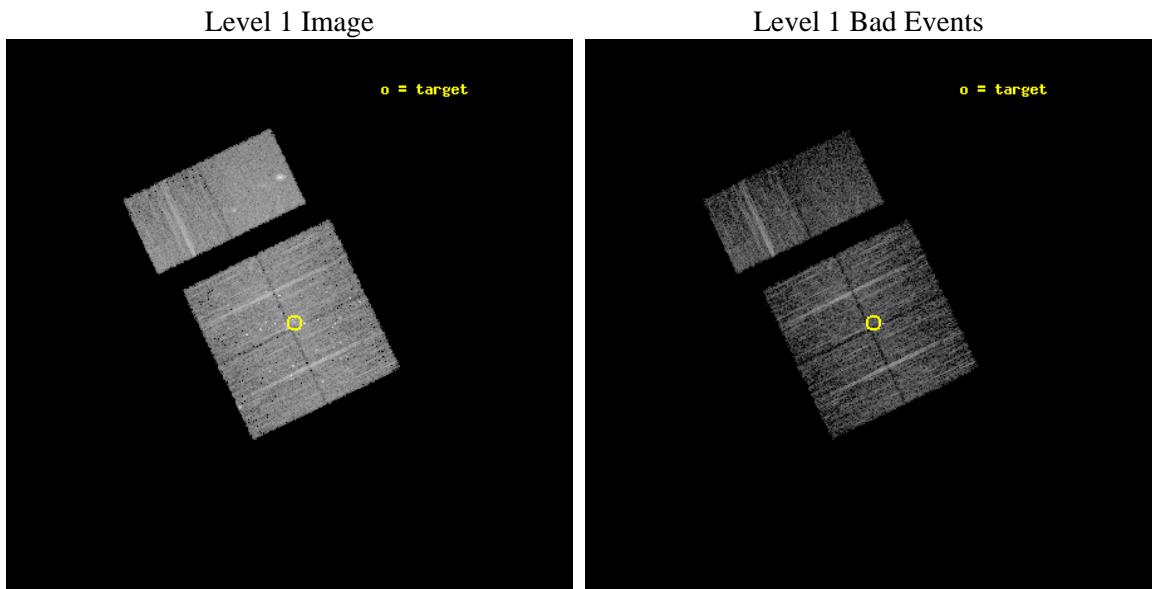
2.5.3 Slot 2



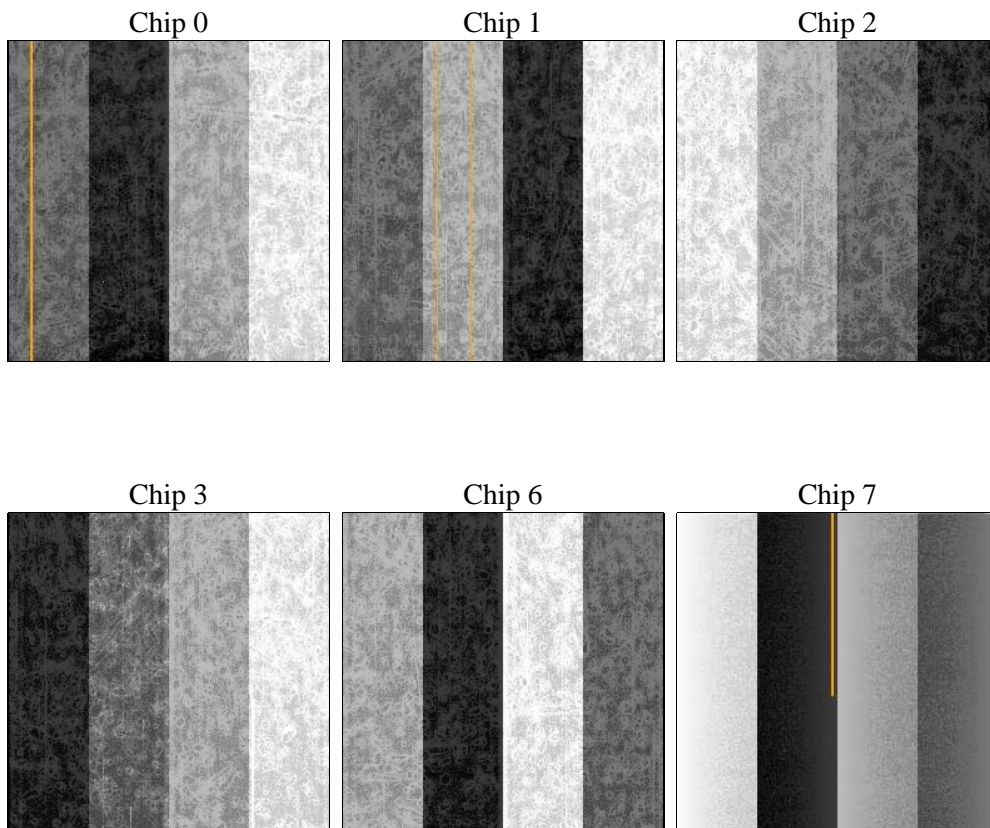
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	4156.3571320772	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	4156.2343106866	Sum of GTIs [s]
date	2012-06-02T01:39:19	Date and time of file creation	ontime1	4156.2752410769	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4153.0753114223	Sum of GTIs [s]
			ontime3	4156.3571320772	Sum of GTIs [s]
			ontime6	4156.4399187565	Sum of GTIs [s]
			ontime7	4156.3981134892	Sum of GTIs [s]
			l1events	242137	Number of level 1 events

3.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	35669	40199	42337	39418	39013	45501	grade 0 events	2582	4323	4063	3786	1475	2432
rejected events	30487	32817	35585	33071	35096	24929		7%	10%	9%	9%	3%	5%
rejected %	85%	81%	84%	83%	89%	54%	grade 1 events	36	110	86	71	16	53
								0%	0%	0%	0%	0%	0%
							grade 2 events	1108	1340	1258	1080	973	4566
								3%	3%	2%	2%	2%	10%
							grade 3 events	489	550	502	500	446	2044
								1%	1%	1%	1%	1%	4%
							grade 4 events	489	569	534	466	403	2067
								1%	1%	1%	1%	1%	4%
							grade 5 events	1390	1555	1370	1637	1657	4541
								3%	3%	3%	4%	4%	9%
							grade 6 events	862	1033	733	832	858	10772
								2%	2%	1%	2%	2%	23%
							grade 7 events	28713	30719	33791	31046	33185	19026
								80%	76%	79%	78%	85%	41%

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1291686

A.2 Comments

Joint proposal with HST. Due to delay in HST repair mission, coordinated observations might not have been possible.

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Time window constraint met.