

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11275 - L2 Version 2
Chandra X-Ray Center

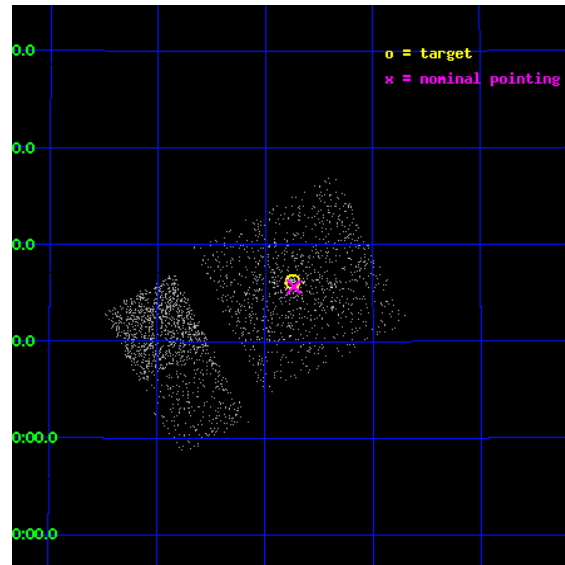
L2 Processing Date : Jun 16 2012

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1 Front

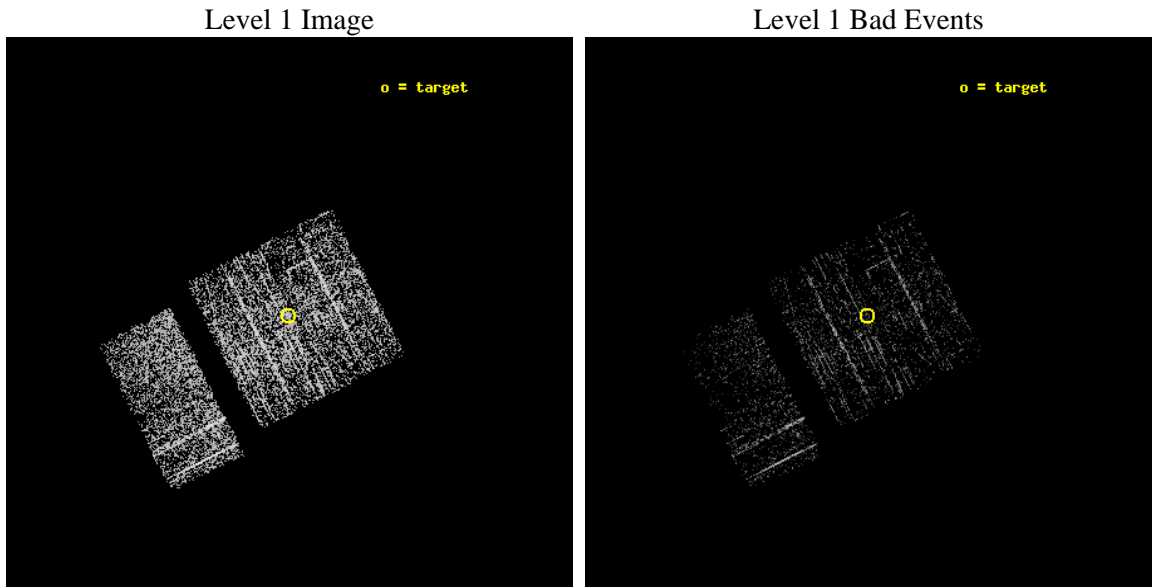
seq_num	600794	Sequence number
obs_id	11275	Observation id
title	Monitoring M31 for BHXNe	Proposal title
observer	Dr. Michael Garcia	Principal investigator
object	M31	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.683213286921	Nominal RA [deg]
dec_nom	41.260923748151	Nominal Dec [deg]
roll_nom	243.0117608373	Nominal Roll [deg]
revision	2	Processing version of data
ontime	983.02506184578	Sum of GTIs [s]
livetime	154.75185684571	Livetime [s]
ontime0	982.90193194151	Sum of GTIs [s]
ontime1	982.94297194481	Sum of GTIs [s]
ontime2	982.98402184248	Sum of GTIs [s]
ontime3	983.02506184578	Sum of GTIs [s]
ontime6	983.10714185238	Sum of GTIs [s]
ontime7	983.06609195471	Sum of GTIs [s]
l2events	2834	Number of level 2 events



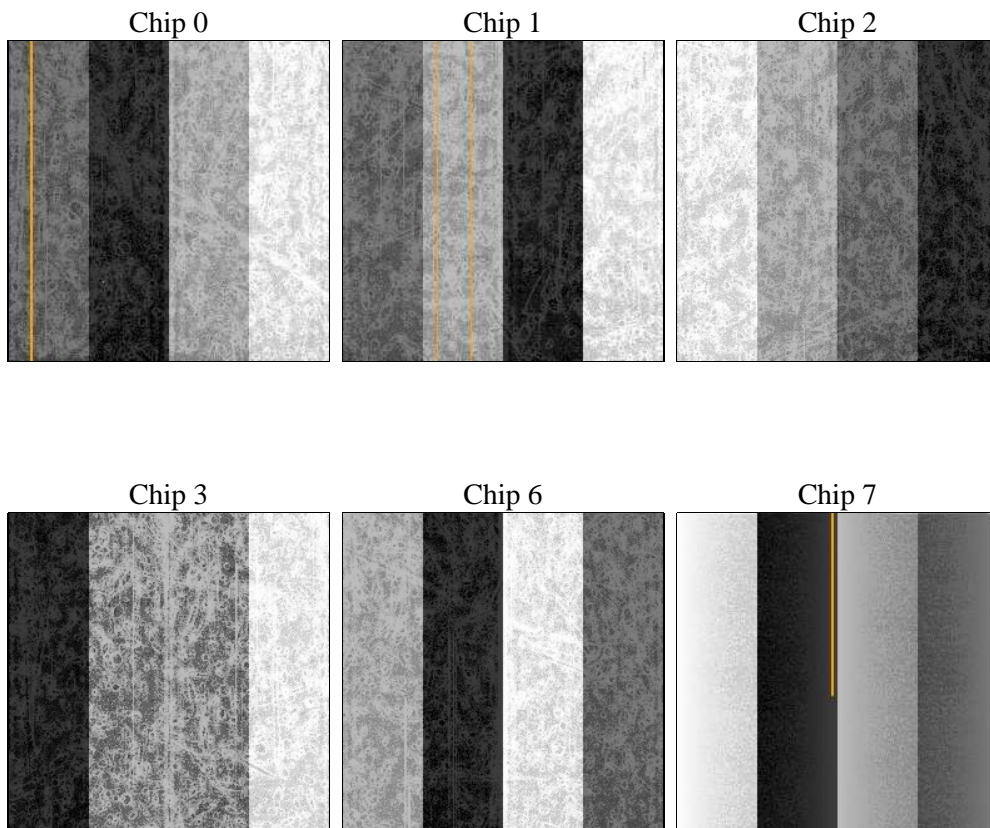
2 OBI Primary

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	8.4.5	Processing system revision	ontime	983.02506184578	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	982.90193194151	Sum of GTIs [s]
date	2012-06-16T15:03:06	Date and time of file creation	ontime1	982.94297194481	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	982.98402184248	Sum of GTIs [s]
			ontime3	983.02506184578	Sum of GTIs [s]
			ontime6	983.10714185238	Sum of GTIs [s]
			ontime7	983.06609195471	Sum of GTIs [s]
			l1events	26469	Number of level 1 events

2.1.4 Events

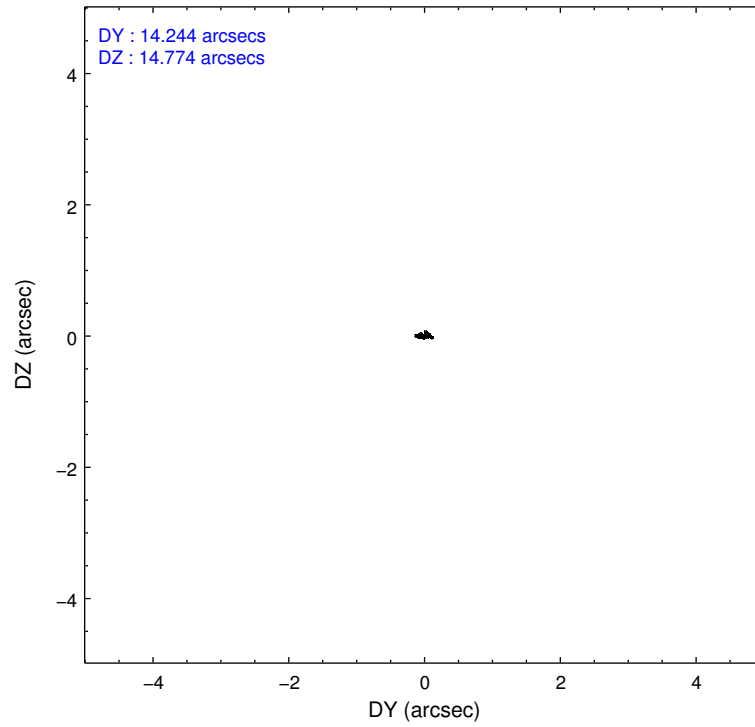
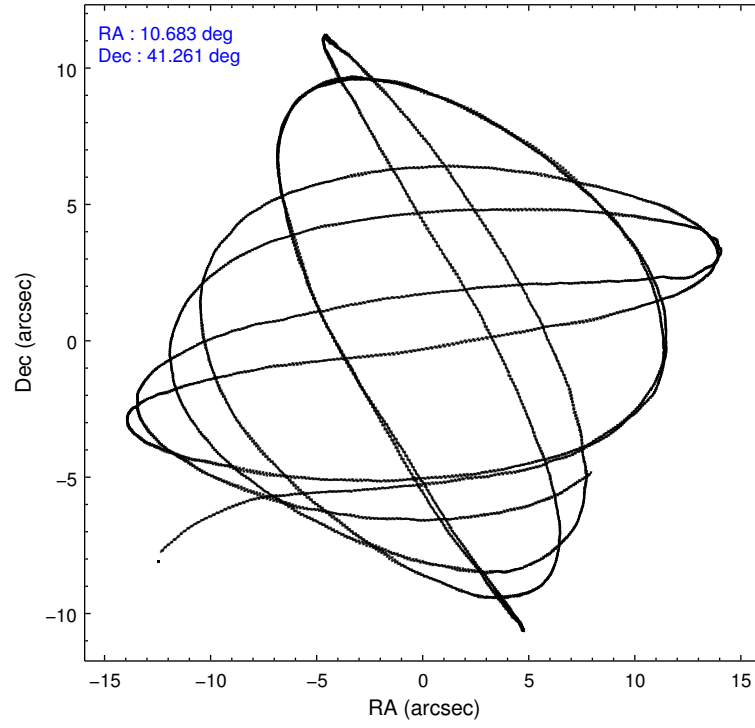
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	4011	3660	5319	4494	4948	4037
rejected events	3589	3279	4932	3988	4589	2879
rejected %	89%	89%	92%	88%	92%	71%

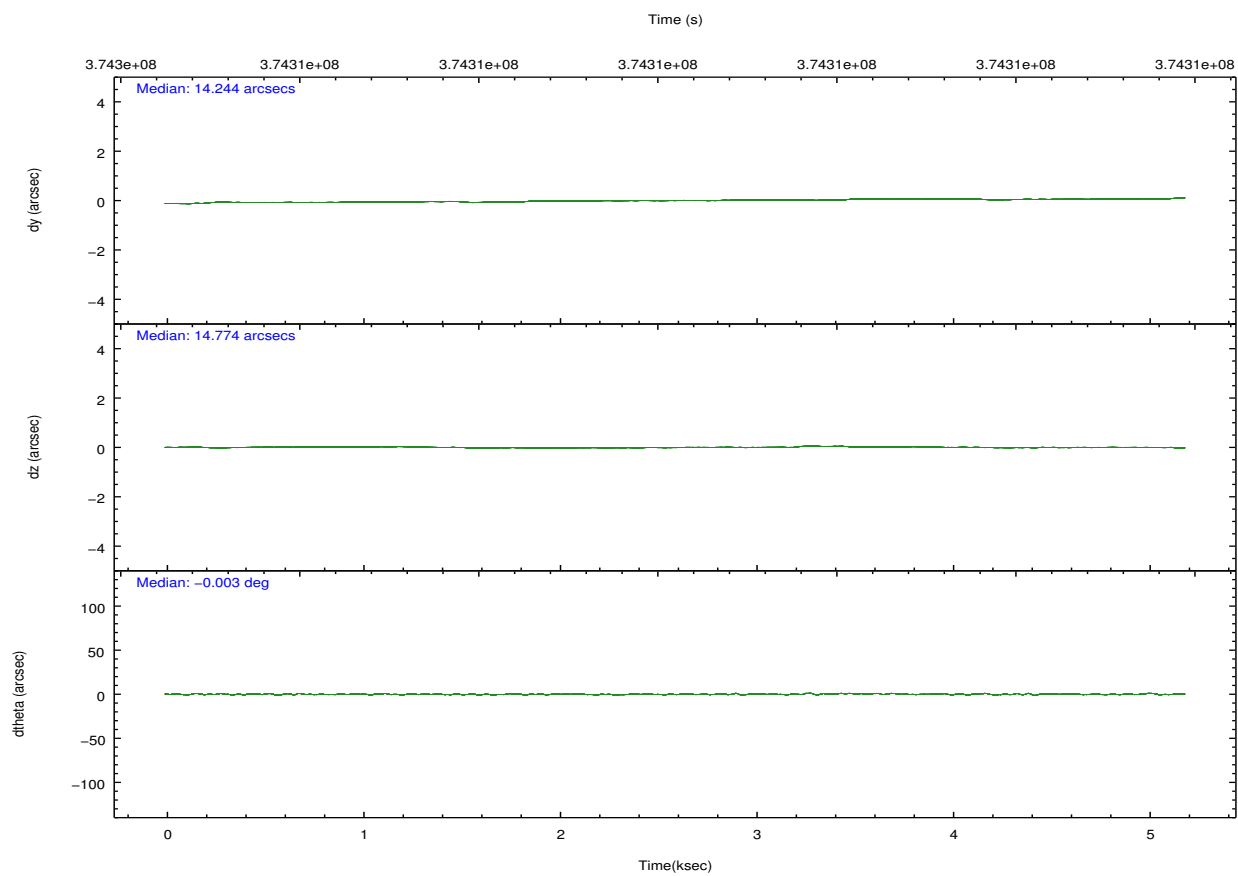
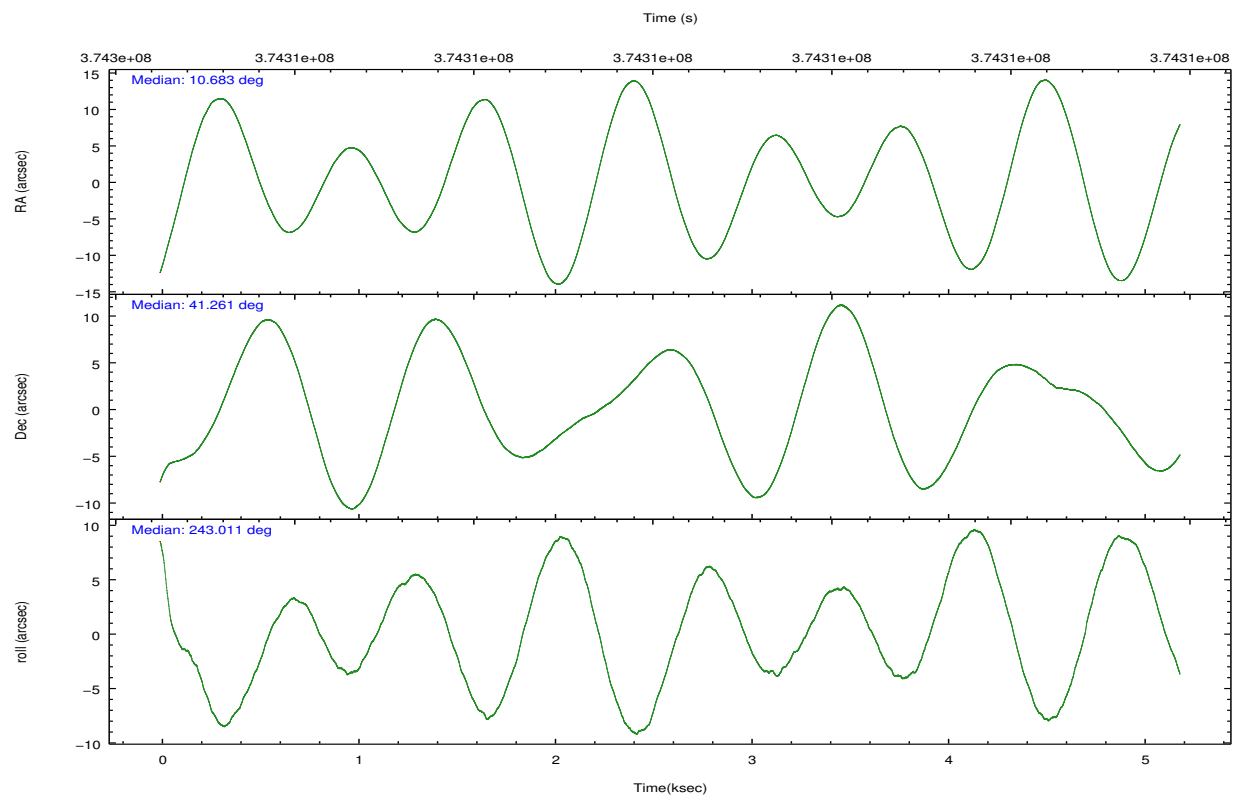
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	197	152	134	288	117	98
	4%	4%	2%	6%	2%	2%
grade 1 events	2	1	1	3	1	11
	0%	0%	0%	0%	0%	0%
grade 2 events	90	97	99	90	89	286
	2%	2%	1%	2%	1%	7%
grade 3 events	43	62	40	50	51	125
	1%	1%	0%	1%	1%	3%
grade 4 events	50	37	56	55	44	119
	1%	1%	1%	1%	0%	2%
grade 5 events	131	153	152	175	171	396
	3%	4%	2%	3%	3%	9%
grade 6 events	81	83	83	74	99	635
	2%	2%	1%	1%	2%	15%
grade 7 events	3417	3075	4754	3759	4376	2367
	85%	84%	89%	83%	88%	58%

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	10.681121	10.68321328692147	CCD I2 on	Y	Y
[deg] Pointing Dec	41.288463	41.26092374815128	CCD I3 on	Y	Y
[deg] Pointing Roll	242.804441	243.0117608373003	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	374305681.184000	374304278.92777	CCD S5 on	N	N
Observation start date	2009-11-11T05:46:55	2009-11-11T05:24:38	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	374310681.184000	374311266.35312	On-chip summing requested	N	N
Observation end date	2009-11-11T07:10:15	2009-11-11T07:21:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	Y	Y
			[s] Primary exposure time	0.600000	0.6
			[s] Secondary exposure time	0.000000	3.2
			Duty cycle	5	5

2.3 Aspect



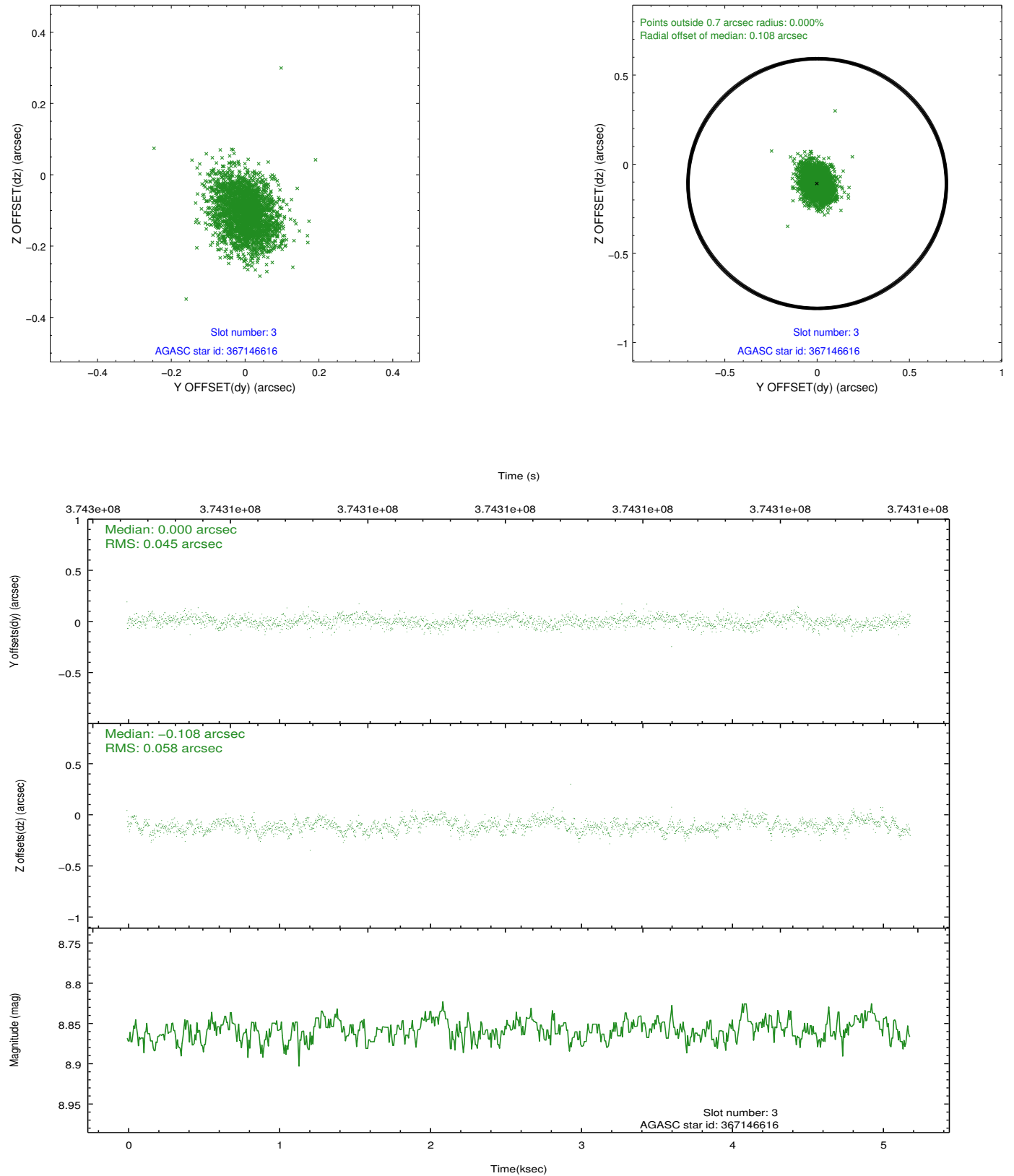


Slot Statistics

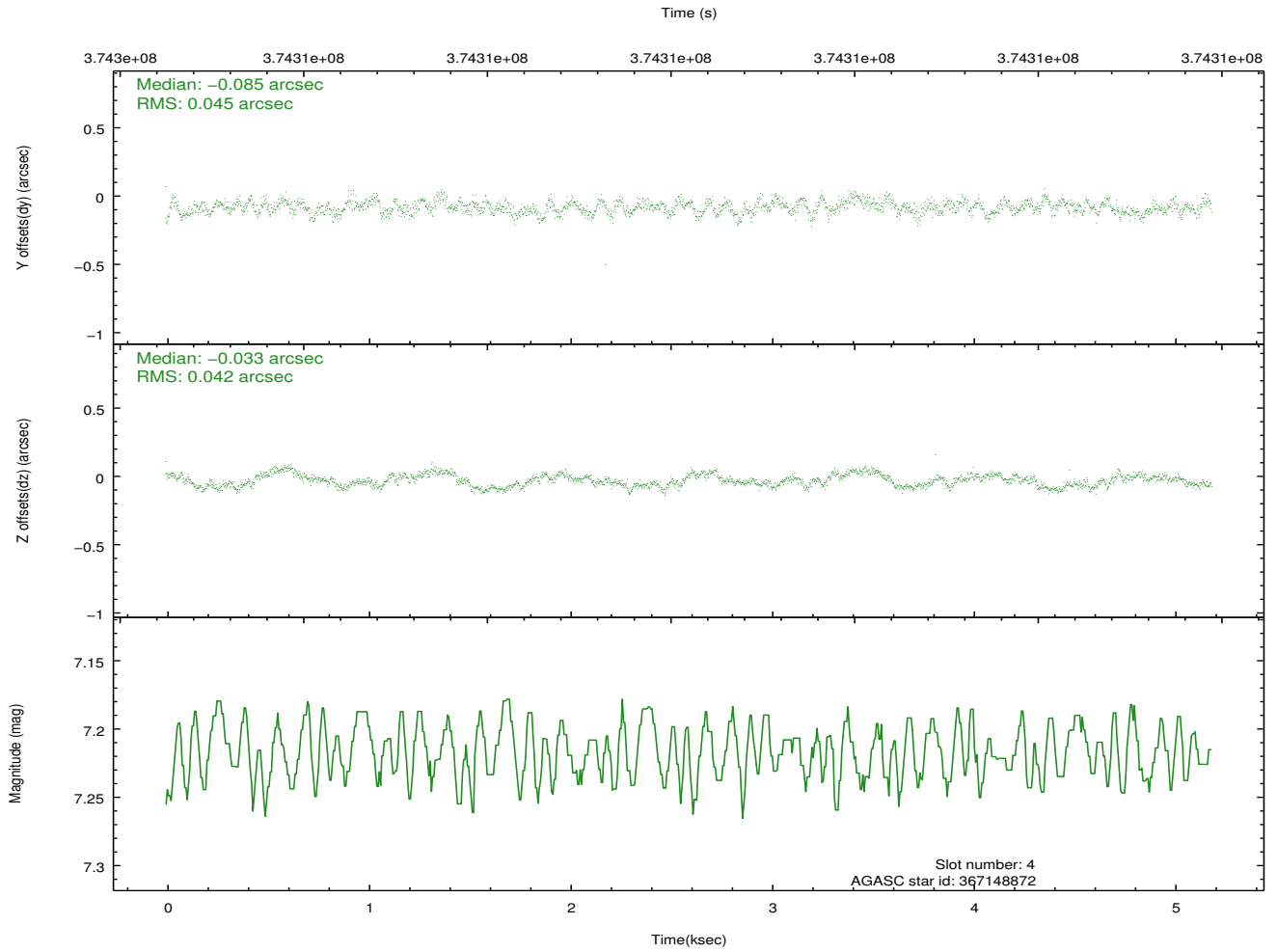
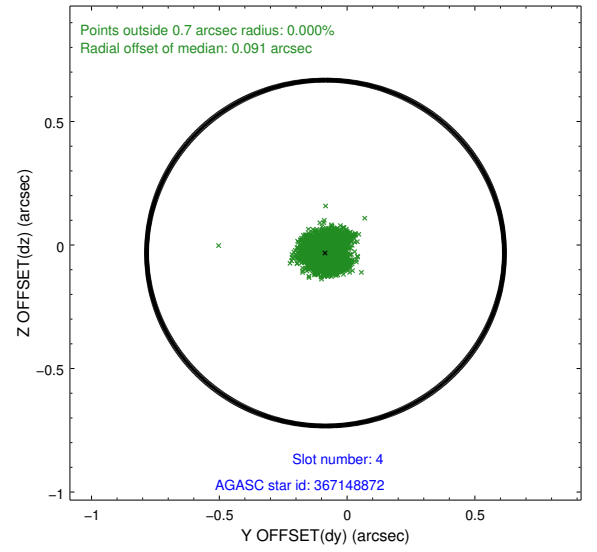
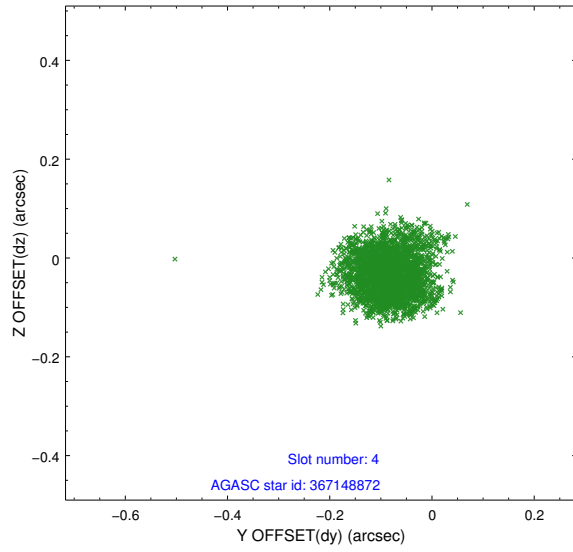
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	1266	0.034	0.005	0.007	0.012	0.000000	0.000000	925.29	-838.35
1	FID	ACIS-I-5	7.01	1265	-0.224	0.038	0.006	0.010	0.000000	0.000000	-1822.47	1058.54
2	FID	ACIS-I-6	7.01	1266	0.099	0.028	0.007	0.012	0.000000	0.000000	389.58	1704.40
3	GUIDE	367146616	8.86	2530	0.000	-0.108	0.077	0.127	11.418645	41.190163	-606.15	1934.85
4	GUIDE	367148872	7.22	2532	-0.085	-0.033	0.066	0.103	10.505940	40.688258	2140.12	562.91
5	GUIDE	367657896	9.00	2531	-0.045	0.098	0.105	0.166	11.197765	41.313576	-721.96	1199.63
6	GUIDE	367663272	9.30	2527	0.063	0.145	0.086	0.141	10.656279	41.699429	-1285.08	-735.52
7	GUIDE	367674552	8.86	2531	0.067	-0.103	0.074	0.121	11.016238	41.570845	-1318.82	337.11

2.4 Star Slots

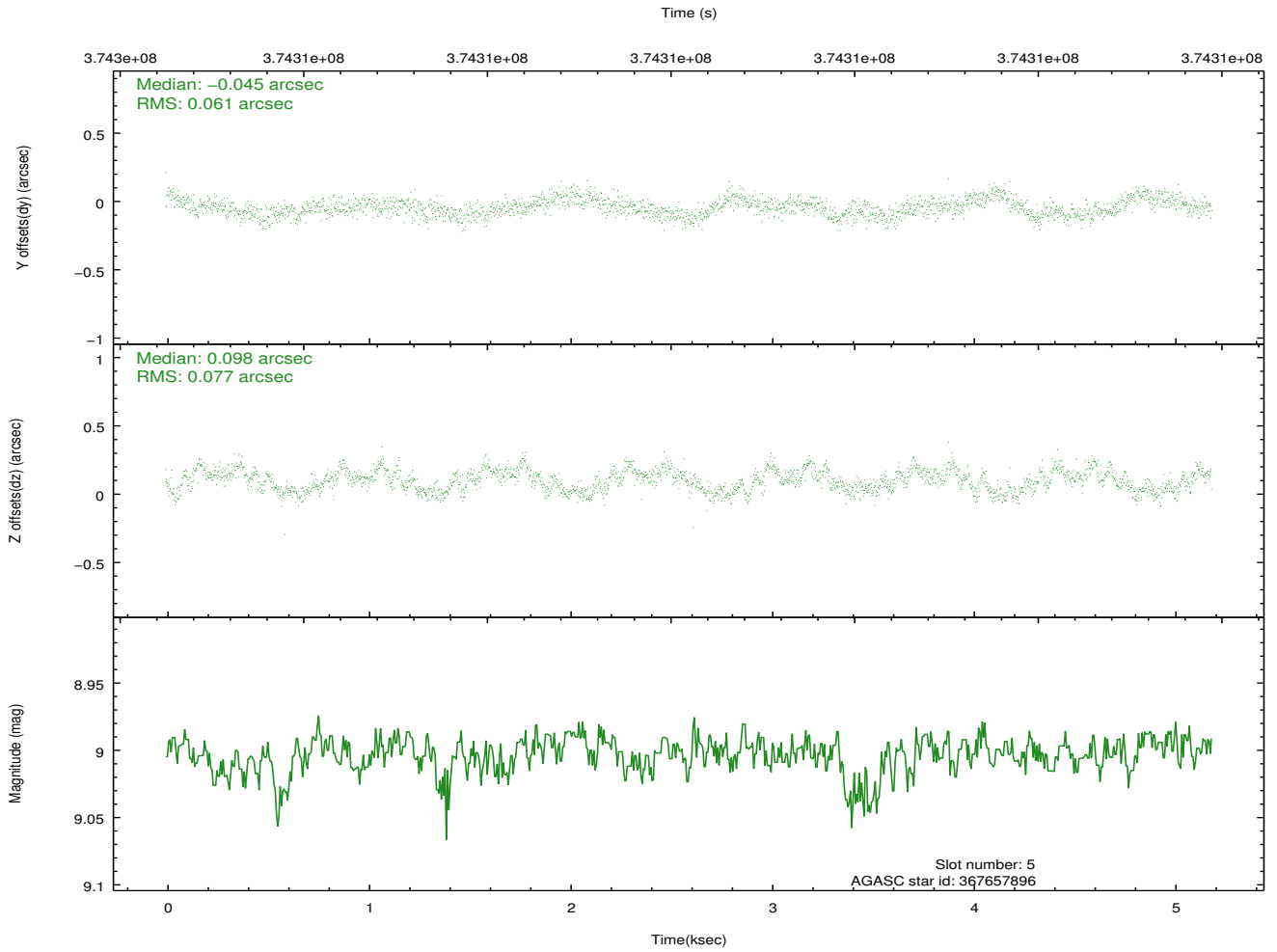
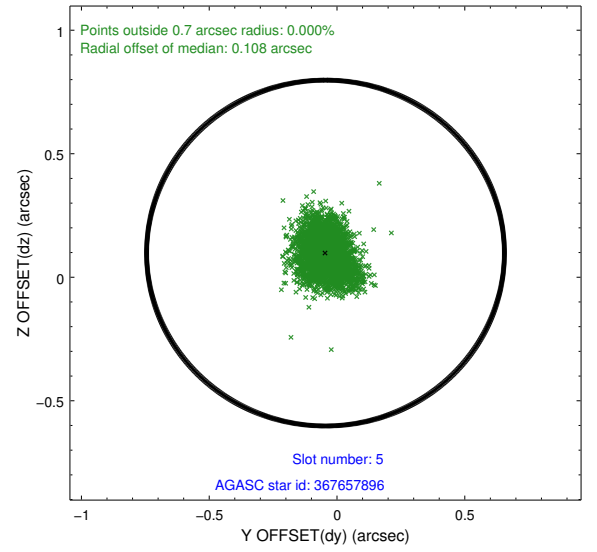
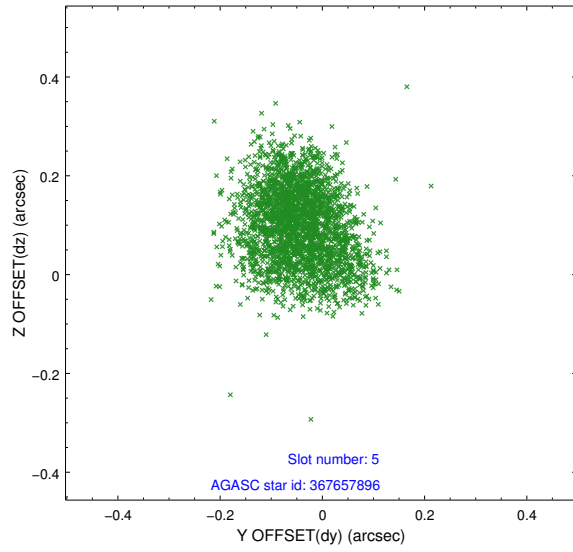
2.4.1 Slot 3



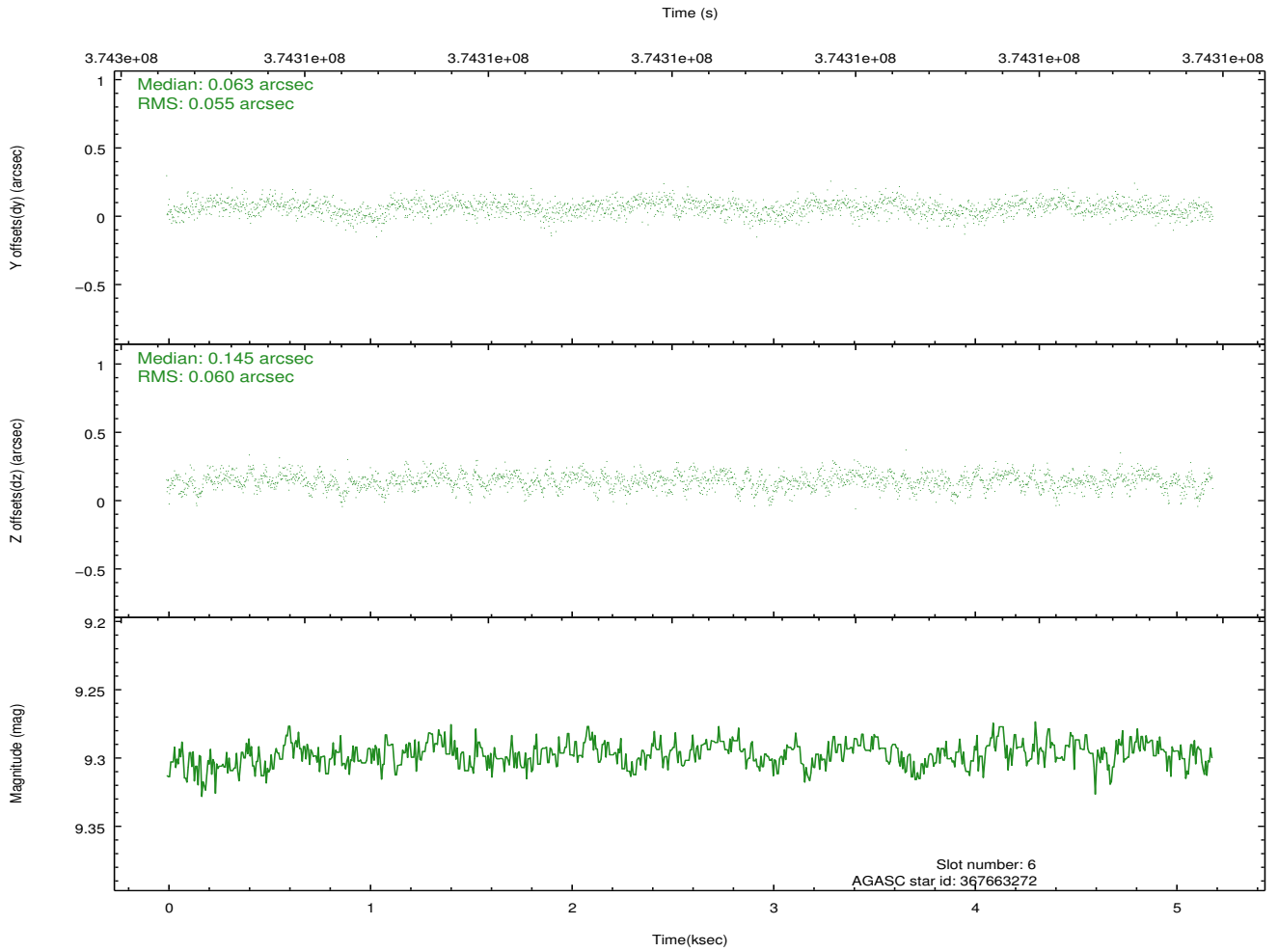
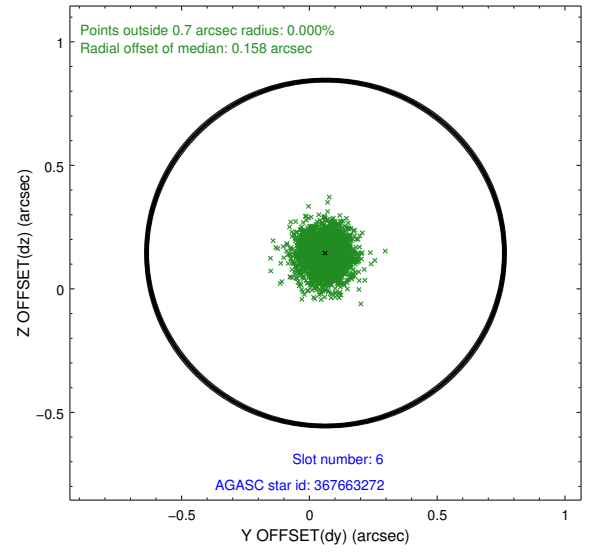
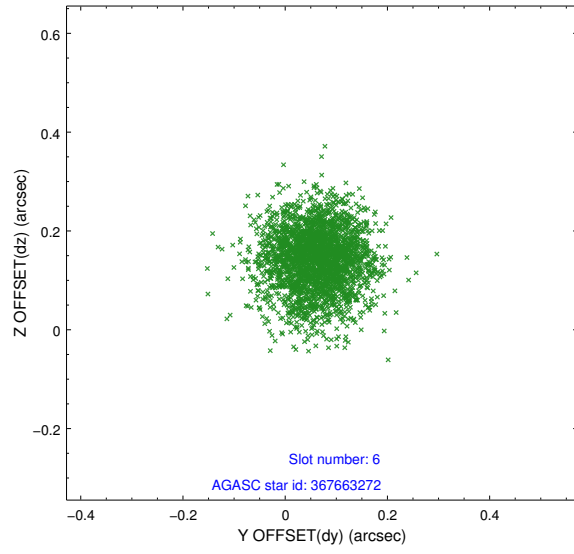
2.4.2 Slot 4



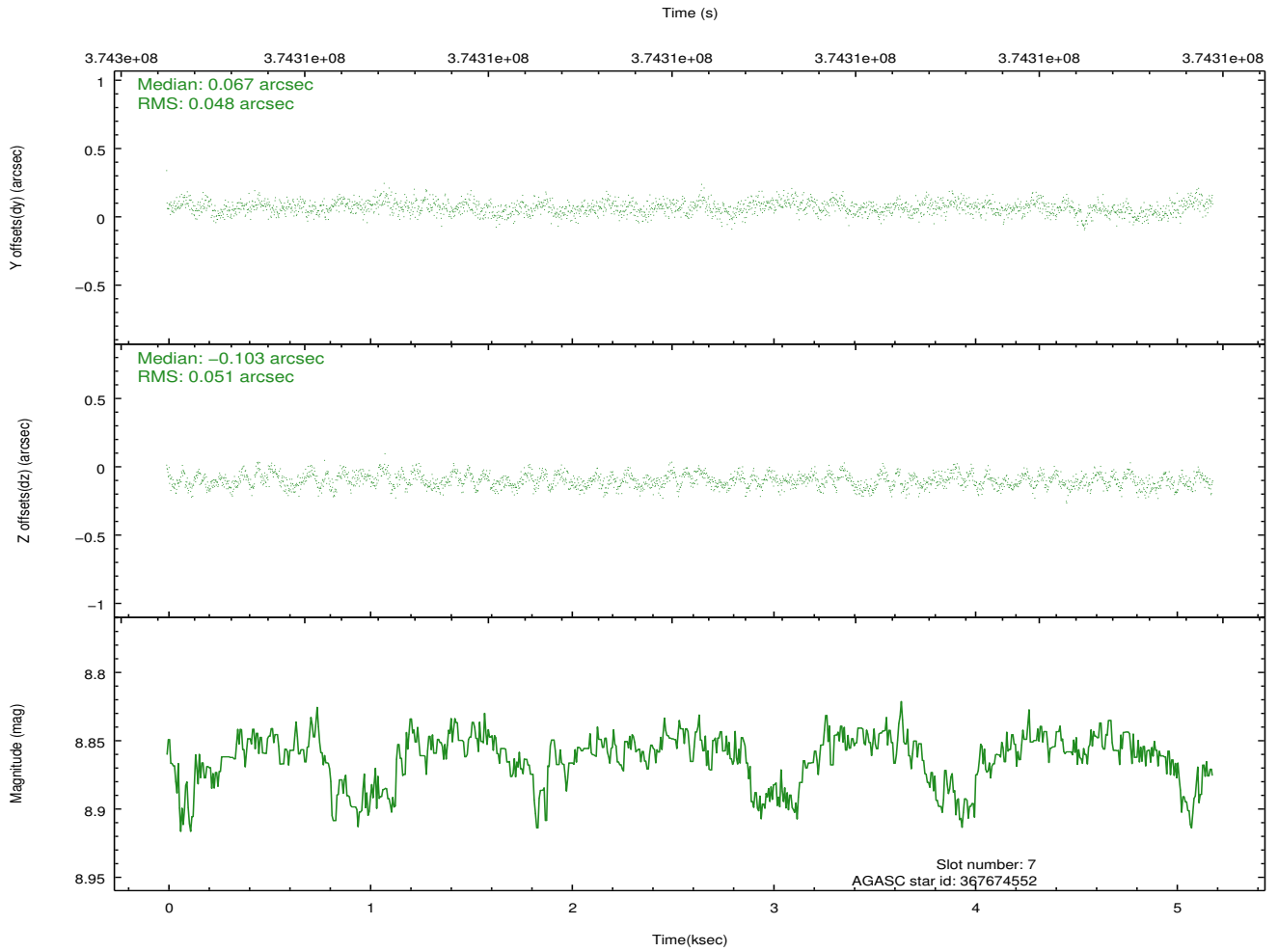
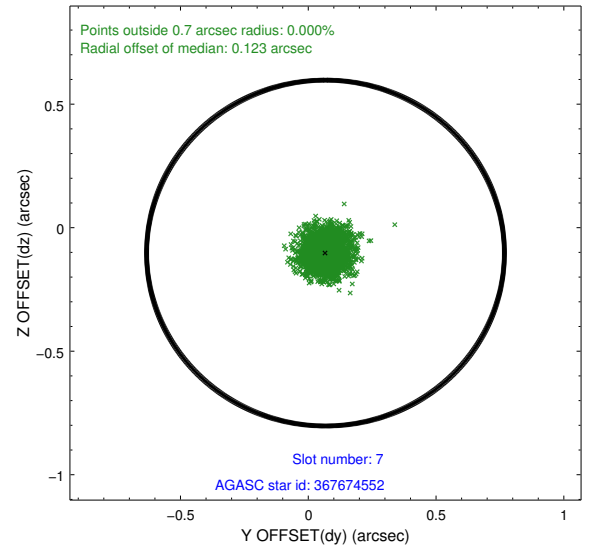
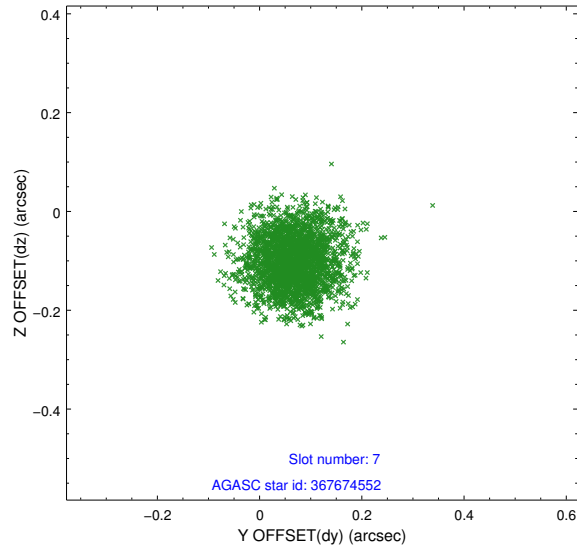
2.4.3 Slot 5



2.4.4 Slot 6

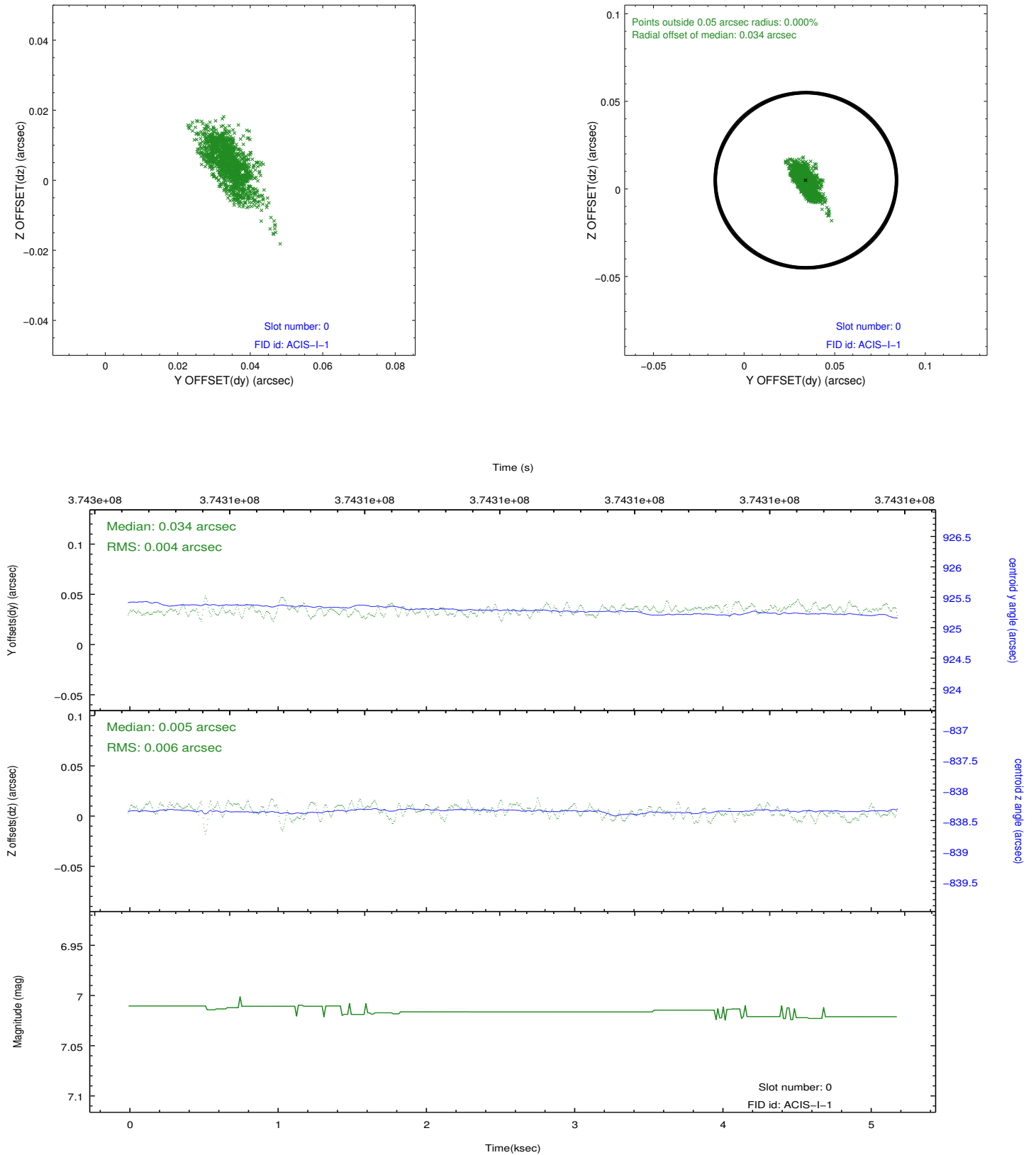


2.4.5 Slot 7

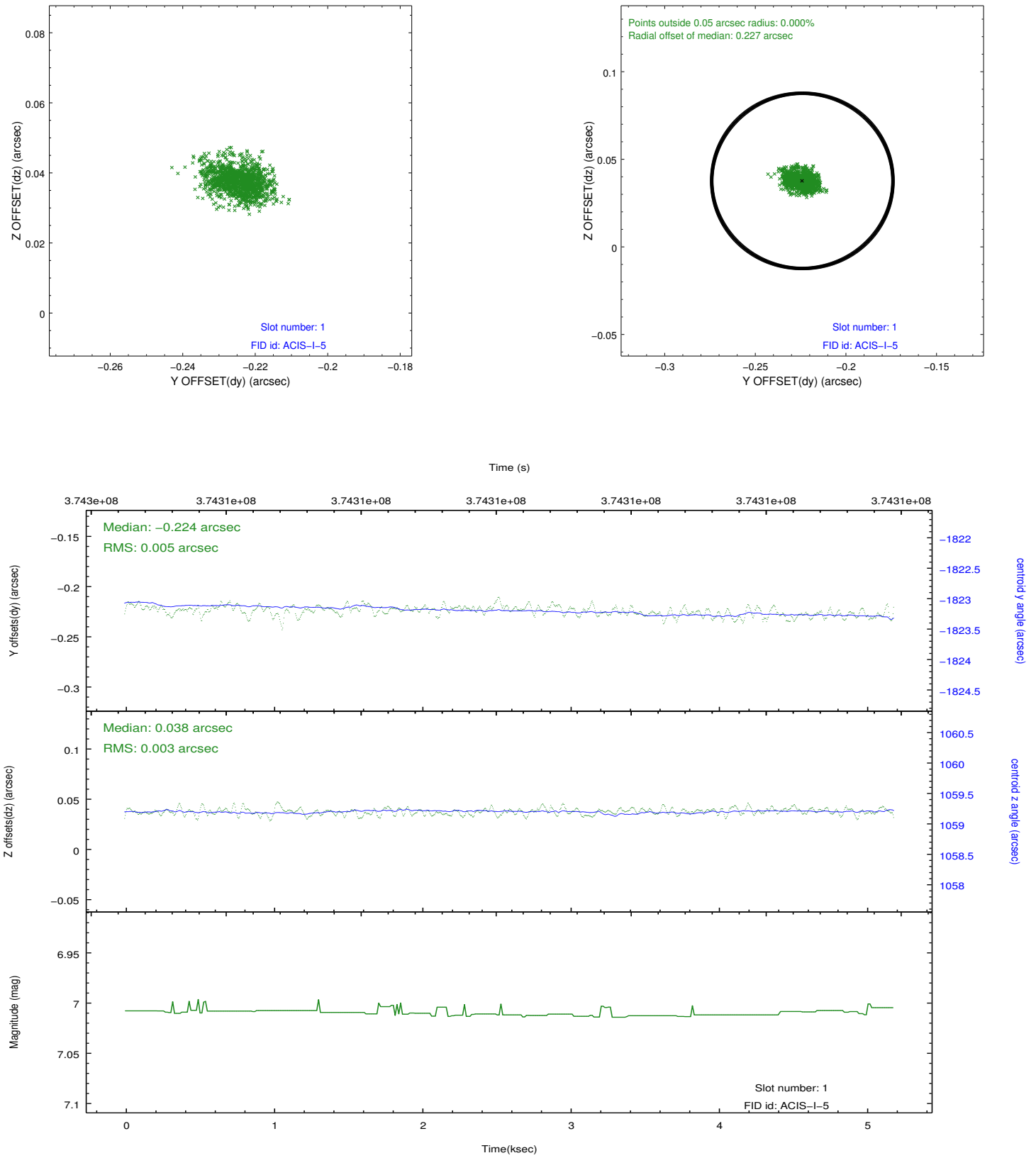


2.5 FID Slots

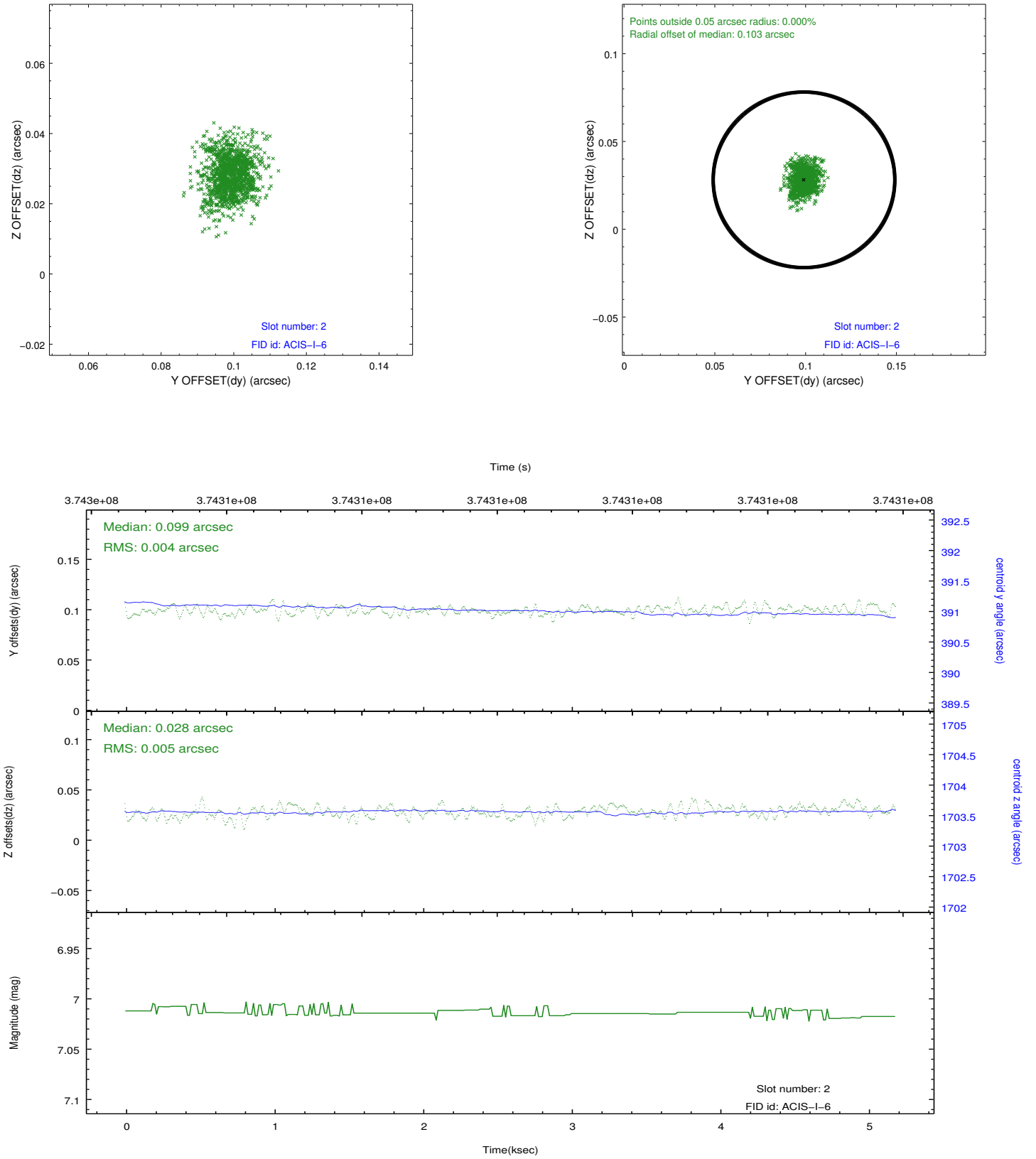
2.5.1 Slot 0



2.5.2 Slot 1



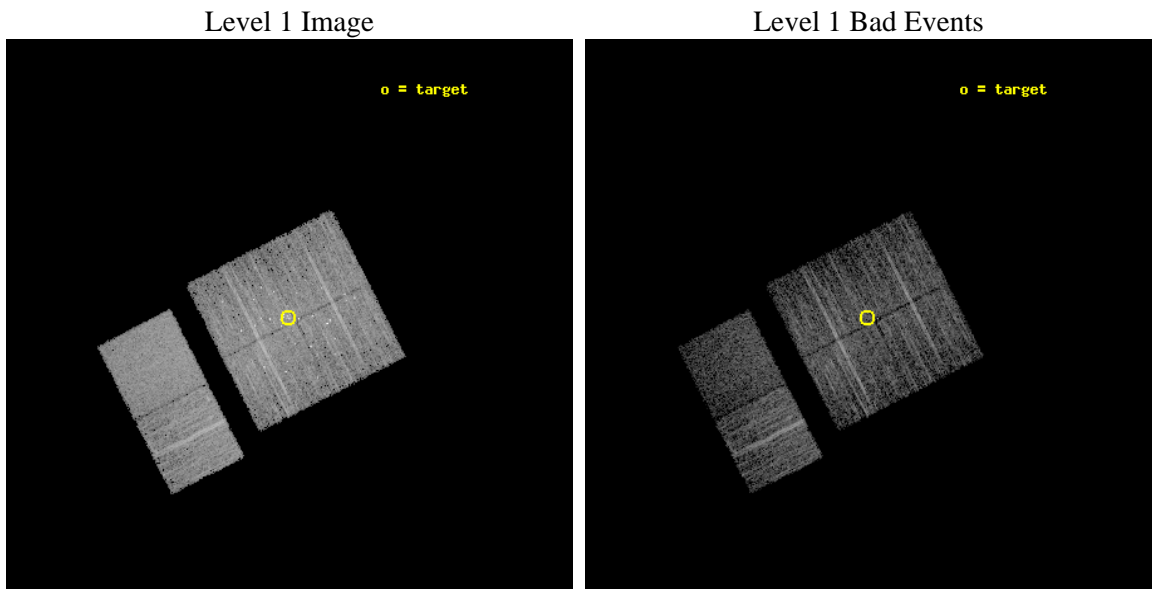
2.5.3 Slot 2



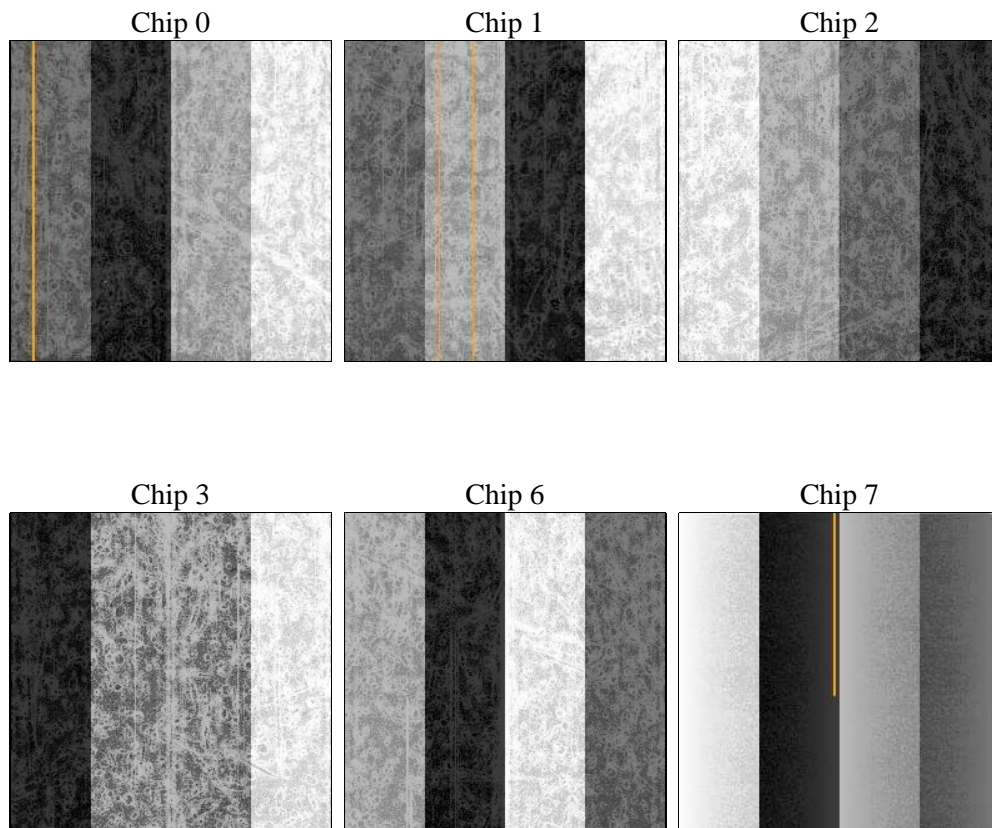
3 OBI Secondary

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	8.4.5	Processing system revision	ontime	4193.867382586	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	4193.8674121499	Sum of GTIs [s]
date	2012-06-16T15:04:13	Date and time of file creation	ontime1	4193.8675513268	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4193.8673030734	Sum of GTIs [s]
			ontime3	4193.867382586	Sum of GTIs [s]
			ontime6	4193.8672135472	Sum of GTIs [s]
			ontime7	4193.8674129248	Sum of GTIs [s]
			l1events	257392	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	41634	38402	43692	43911	43063	46690	grade 0 events	3970	2682	2911	5747	1694	2022
rejected events	34704	33231	38364	35257	38953	27310		9%	6%	6%	13%	3%	4%
rejected %	83%	86%	87%	80%	90%	58%	grade 1 events	95	45	42	105	30	64
								0%	0%	0%	0%	0%	0%
							grade 2 events	1390	1128	1192	1393	1027	4321
								3%	2%	2%	3%	2%	9%
							grade 3 events	577	488	469	611	424	2013
								1%	1%	1%	1%	0%	4%
							grade 4 events	546	553	440	575	431	1909
								1%	1%	1%	1%	1%	4%
							grade 5 events	1589	1702	1395	1746	1730	4879
								3%	4%	3%	3%	4%	10%
							grade 6 events	967	952	759	892	925	11116
								2%	2%	1%	2%	2%	23%
							grade 7 events	32500	30852	36484	32842	36802	20366
								78%	80%	83%	74%	85%	43%

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.17689244109396

A.2 Comments

Joint Proposal: HST