

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 20003 - L2 Version 1
Chandra X-Ray Center

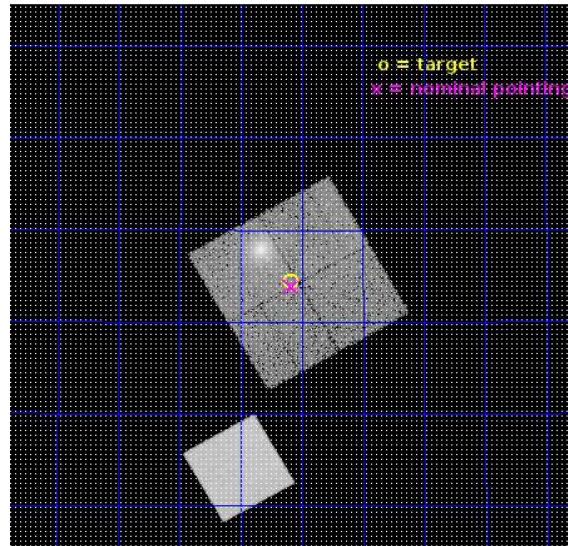
L2 Processing Date : Feb 11 2017

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1 Front

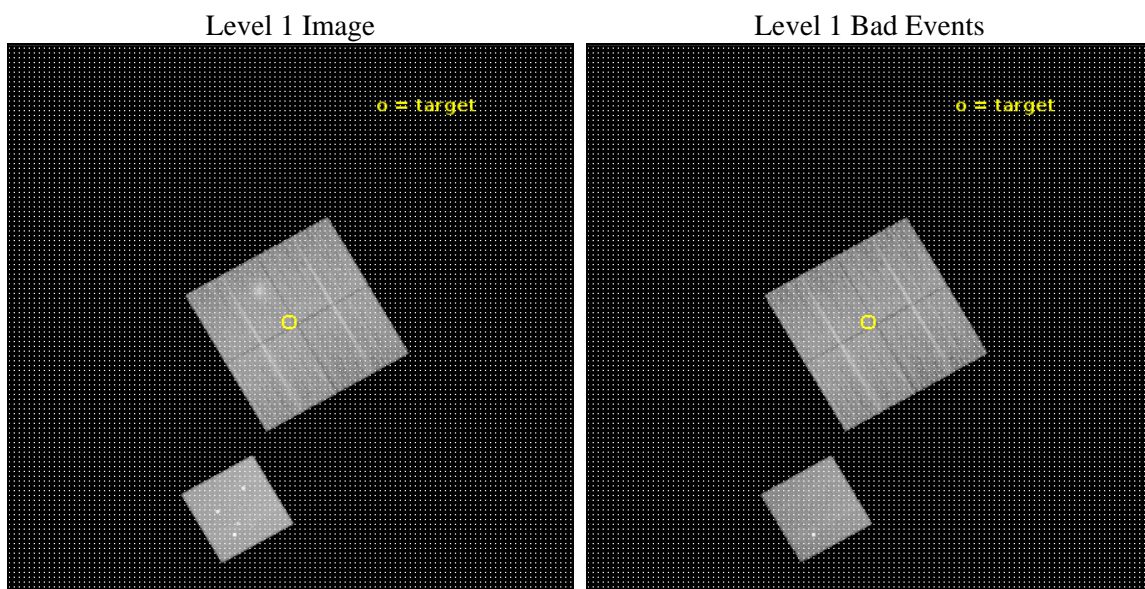
seq_num	801597	Sequence number
obs_id	20003	Observation id
title	Mapping an unusually Relaxed Non-Cool-Core Cluster out to the Viral Radius	Proposal title
observer	Yuanyuan Su	Principal investigator
object	Abell 586	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	113.0225	Observer's specified target RA [deg]
dec_targ	31.57375	Observer's specified target Dec [deg]
ra_nom	113.02129313678	Nominal RA [deg]
dec_nom	31.56402430226	Nominal Dec [deg]
roll_nom	240.20930737849	Nominal Roll [deg]
revision	1	Processing version of data
ontime	22474.833232999	Sum of GTIs [s]
livetime	22181.182991078	Livetime [s]
ontime0	22471.569042683	Sum of GTIs [s]
ontime1	22474.751152992	Sum of GTIs [s]
ontime2	22474.792192936	Sum of GTIs [s]
ontime3	22474.833232999	Sum of GTIs [s]
ontime5	22474.874272943	Sum of GTIs [s]
l2events	194294	Number of level 2 events



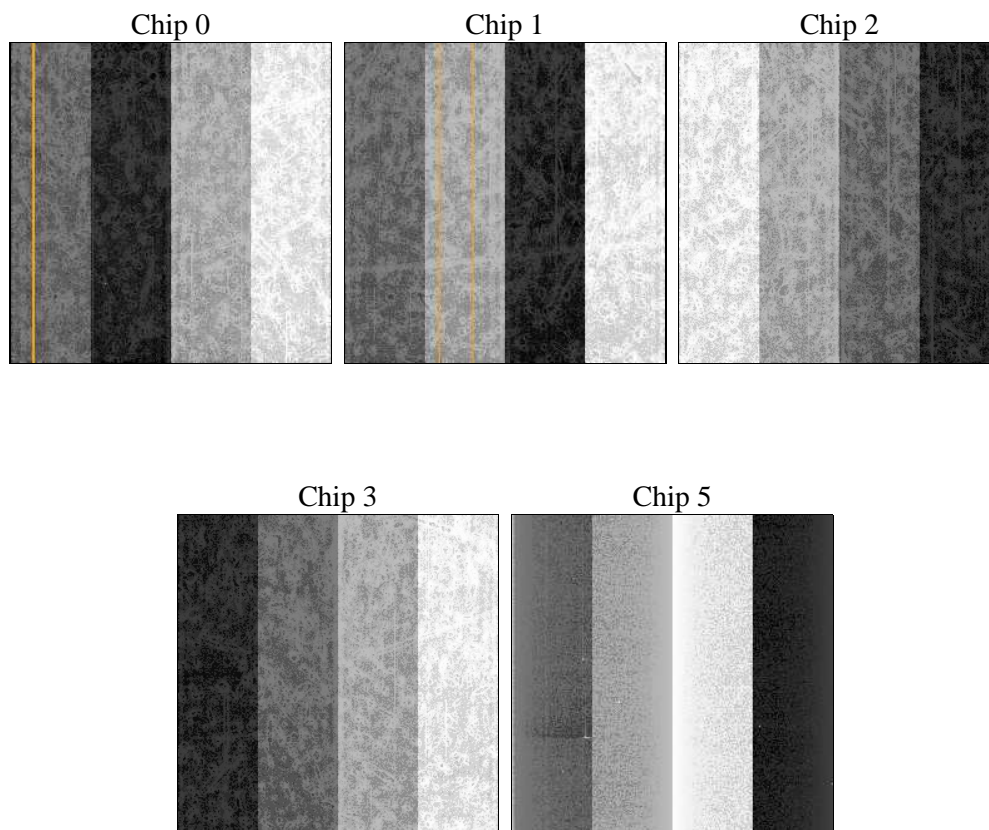
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	22416.724000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	22474.833232999	Sum of GTIs [s]
caldsver	4.7.3	 	ontime0	22471.569042683	Sum of GTIs [s]
date	2017-02-11T16:54:55	Date and time of file creation	ontime1	22474.751152992	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	22474.792192936	Sum of GTIs [s]
			ontime3	22474.833232999	Sum of GTIs [s]
			ontime5	22474.874272943	Sum of GTIs [s]
			l1events	912093	Number of level 1 events

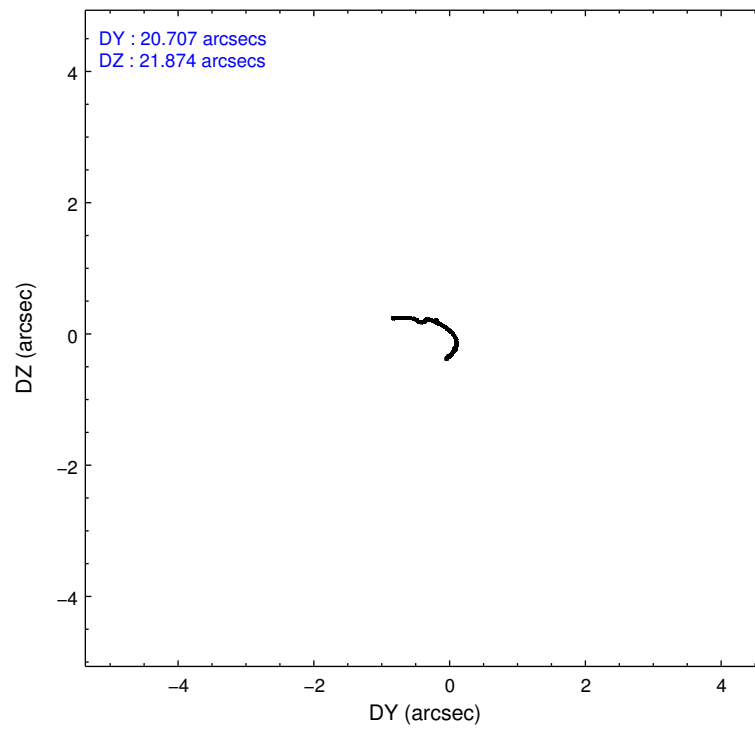
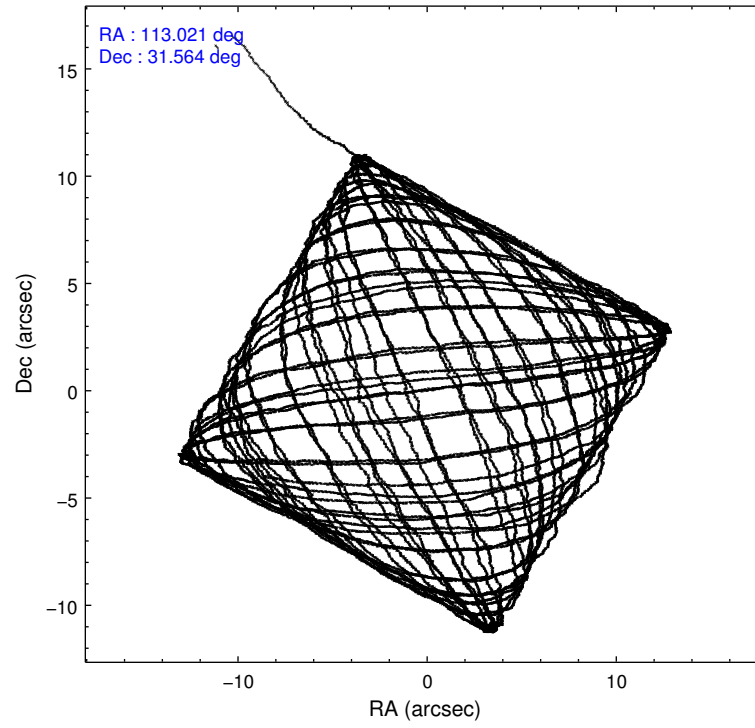
2.1.4 Events

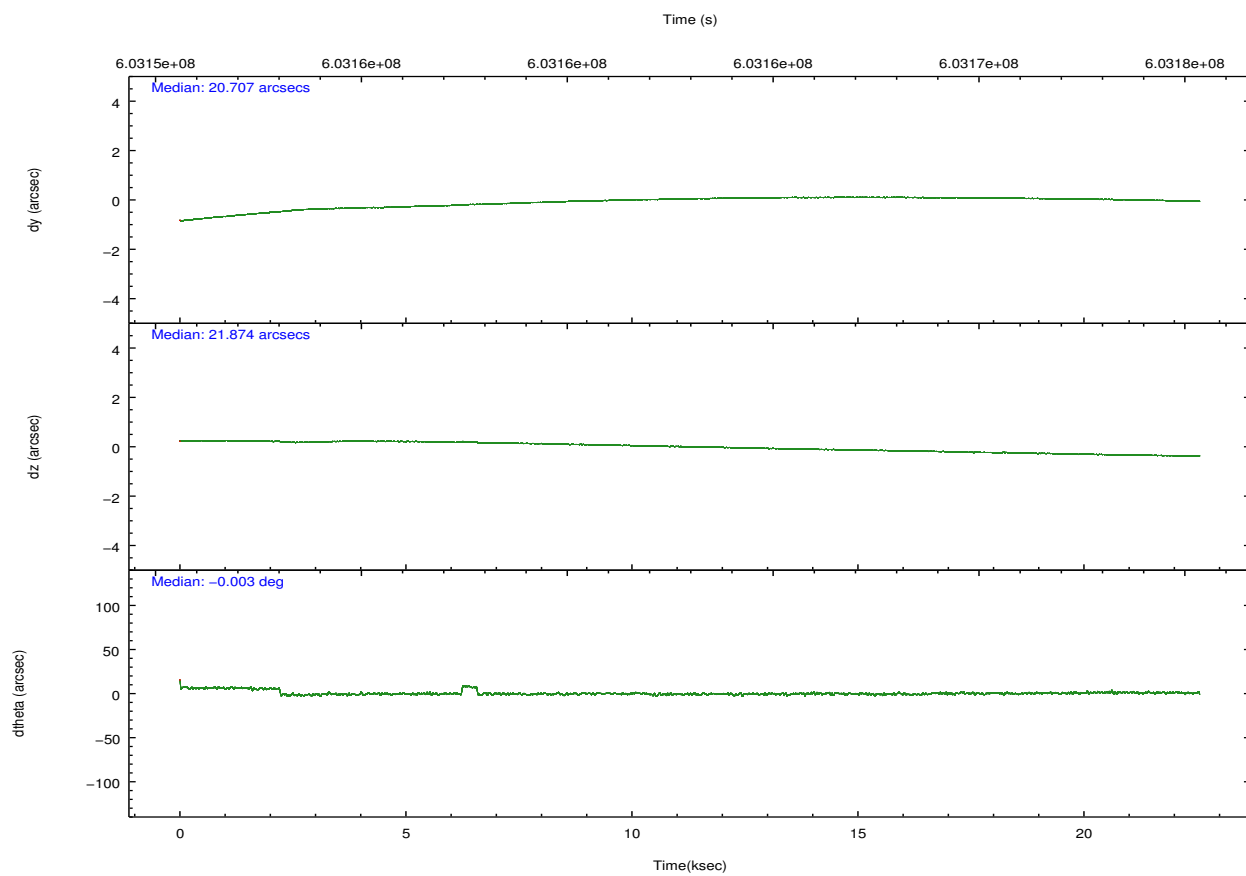
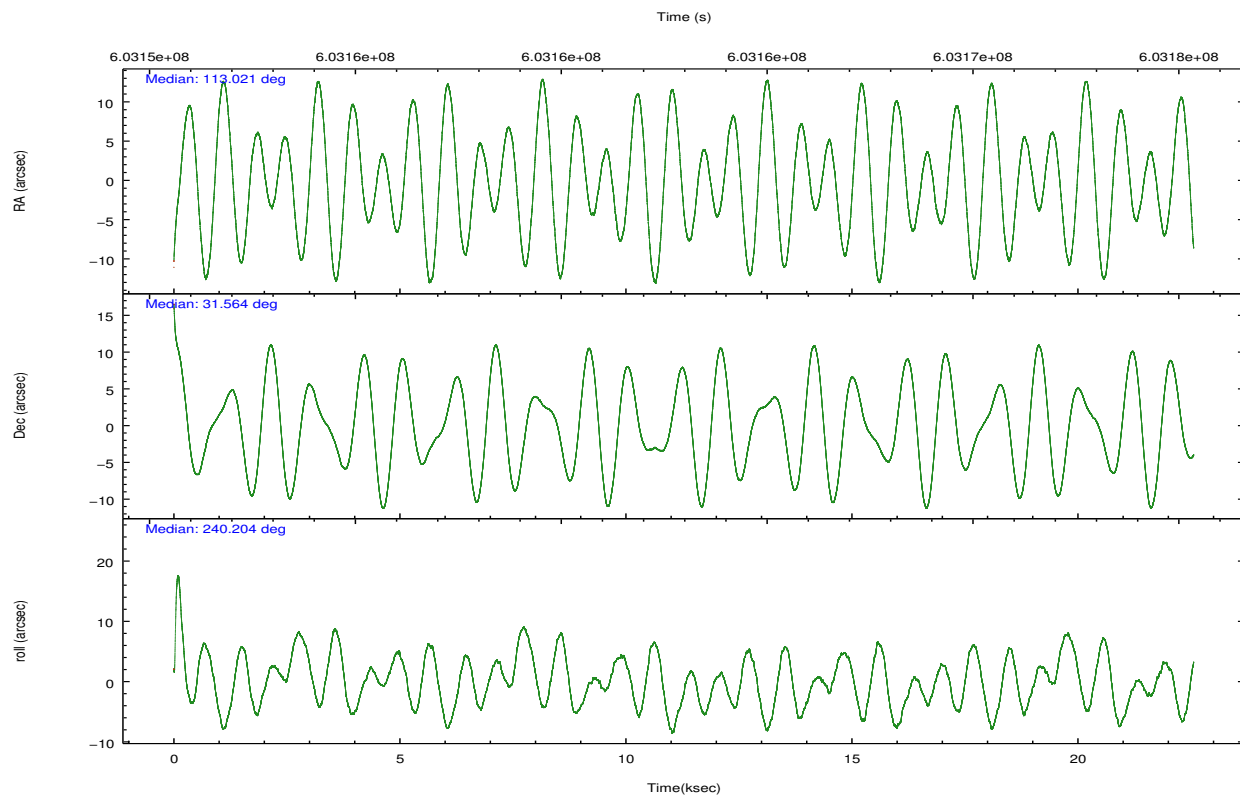
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5
level 1 events	144951	154483	167371	170065	275223	grade 0 events	6105	8064	6083	17812	19944
rejected events	127050	133092	150001	137954	139360		4%	5%	3%	10%	7%
rejected %	87%	86%	89%	81%	50%	grade 1 events	90	101	104	139	557
							0%	0%	0%	0%	0%
						grade 2 events	4489	4946	4423	5611	40115
							3%	3%	2%	3%	14%
						grade 3 events	1911	2038	1674	2300	4226
							1%	1%	1%	1%	1%
						grade 4 events	1742	1966	1778	2366	3871
							1%	1%	1%	1%	1%
						grade 5 events	6901	7266	6266	7762	18223
							4%	4%	3%	4%	6%
						grade 6 events	3658	4379	3417	4029	67745
							2%	2%	2%	2%	24%
						grade 7 events	120055	125723	143626	130046	120542
							82%	81%	85%	76%	43%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01235	ACIS-01235	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	113.021039	113.0212931367757	CCD I2 on	Y	Y
[deg] Pointing Dec	31.591606	31.56402430225982	CCD I3 on	Y	Y
[deg] Pointing Roll	240.000764	240.2093073784934	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[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)	603151833.184000	603150533.13053	CCD S5 on	N	N
Observation start date	2017-02-10T22:09:24	2017-02-10T21:48:53	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	603174249.184000	603174487.38191	On-chip summing requested	N	N
Observation end date	2017-02-11T04:23:00	2017-02-11T04:28:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



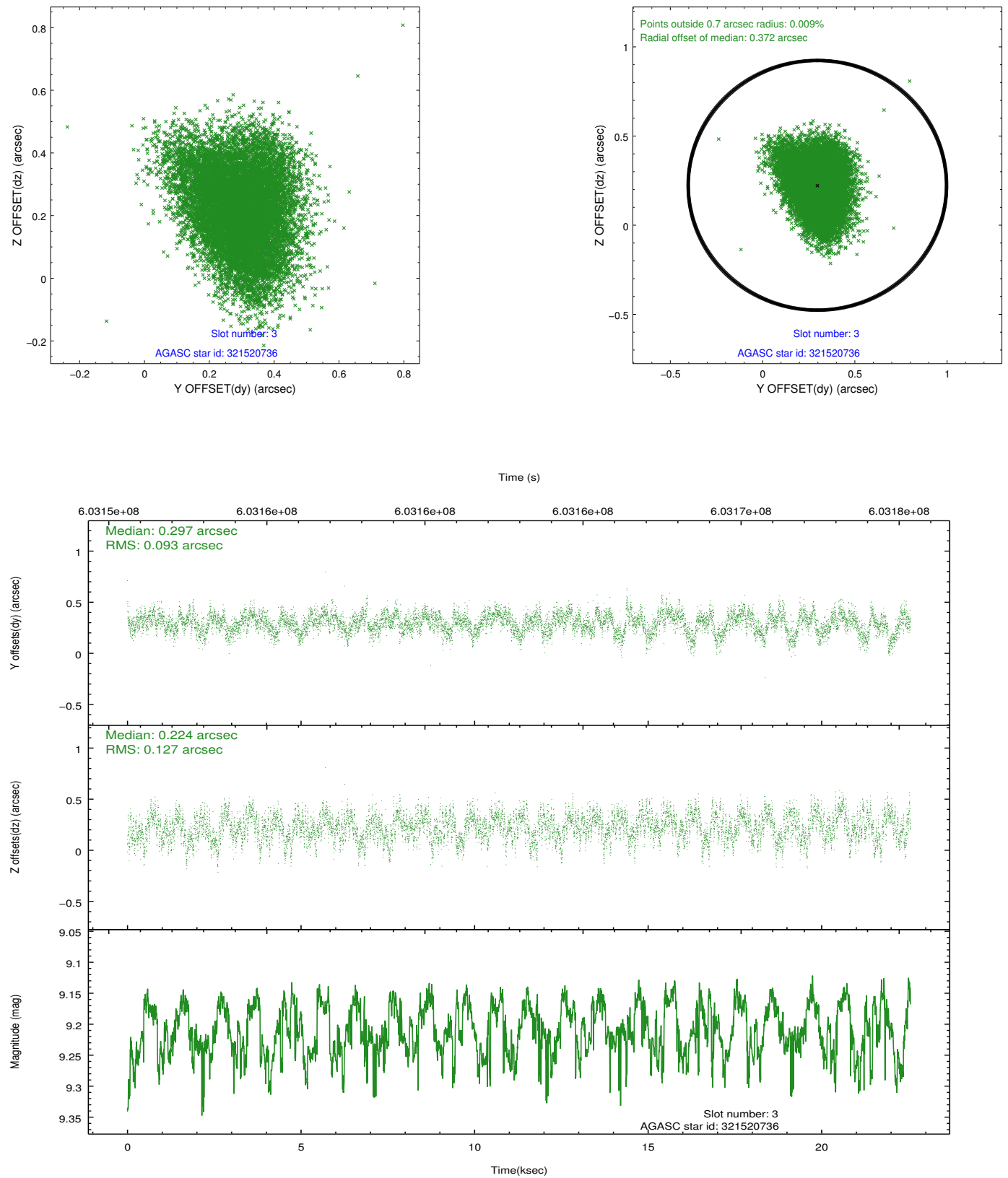


Slot Statistics

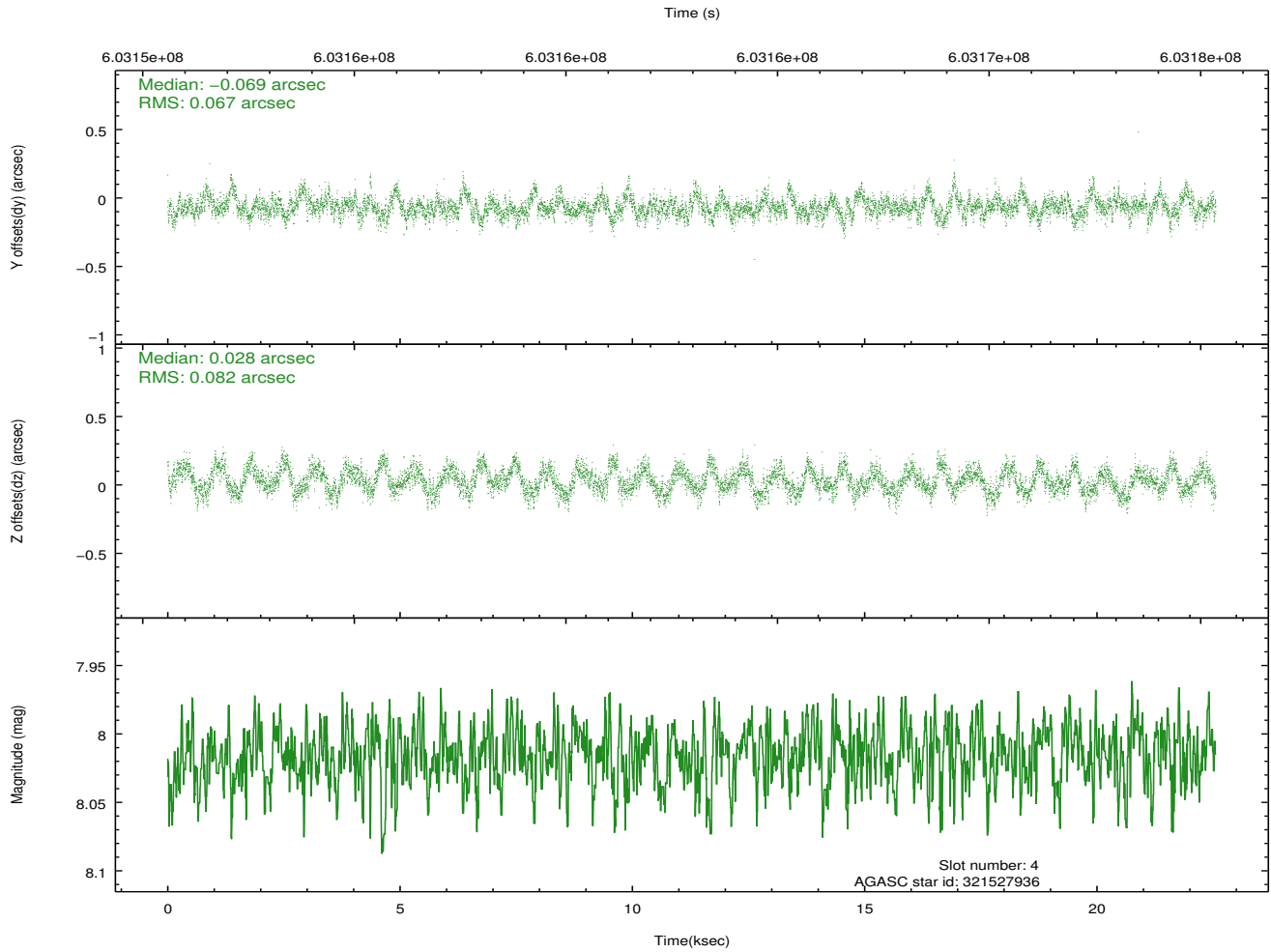
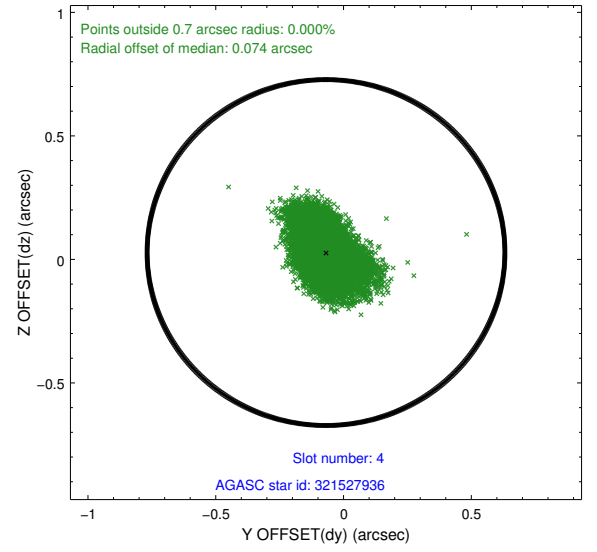
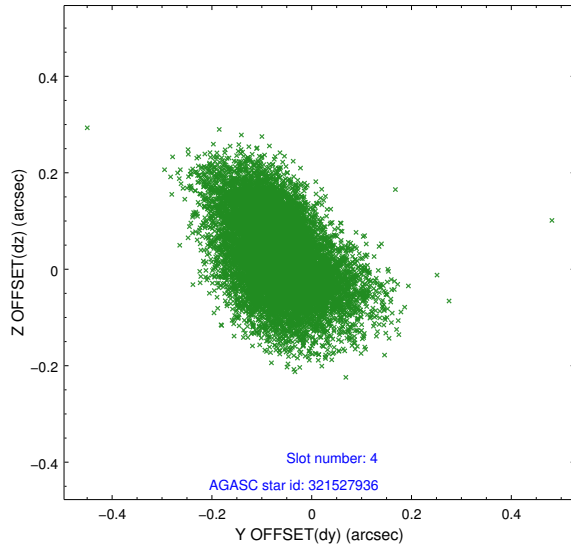
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	6.99	5501	-0.368	-0.206	0.016	0.048	0.000000	0.000000	-775.82	-852.21
1	FID		ACIS-I-4	7.04	5502	0.287	0.239	0.012	0.057	0.000000	0.000000	2138.78	1054.37
2	FID		ACIS-I-6	7.12	5502	-0.020	0.031	0.018	0.069	0.000000	0.000000	384.74	1696.49
3	GUIDE	used	321520736	9.21	10993	0.297	0.224	0.168	0.273	113.387072	31.695033	-883.96	784.22
4	GUIDE	used	321527936	8.02	11003	-0.069	0.028	0.112	0.187	112.604277	31.145118	2032.73	-309.17
5	GUIDE	used	321533568	8.82	11001	0.059	-0.058	0.138	0.233	112.684501	31.559166	616.75	-836.29
6	GUIDE	used	322050952	8.38	11003	0.127	0.170	0.091	0.146	112.842649	31.961208	-879.51	-1137.15
7	GUIDE	used	321528936	7.85	11001	-0.425	-0.353	0.127	0.213	113.393387	30.858982	1706.93	2314.22

2.4 Star Slots

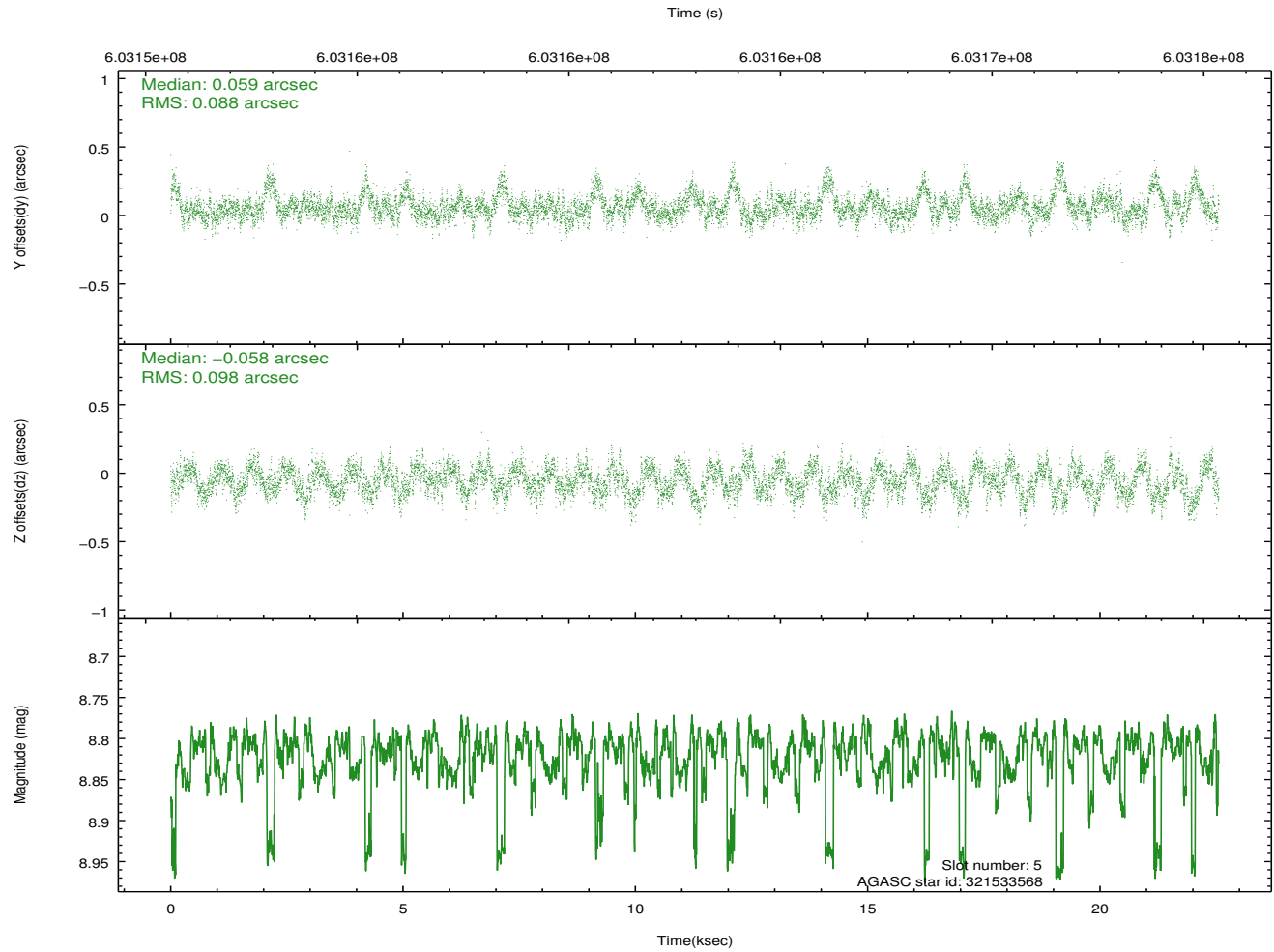
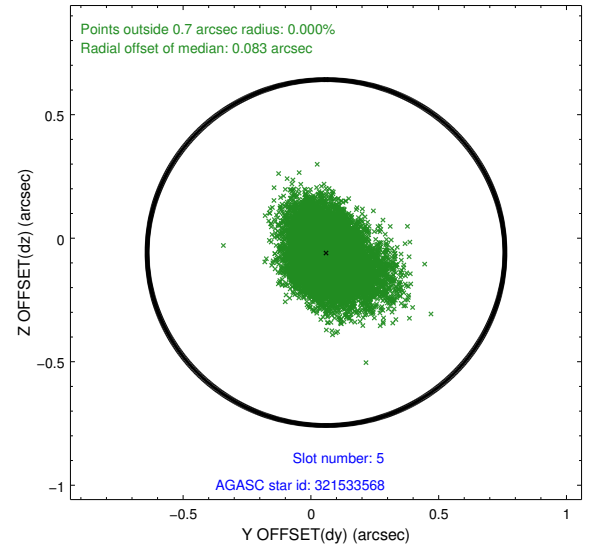
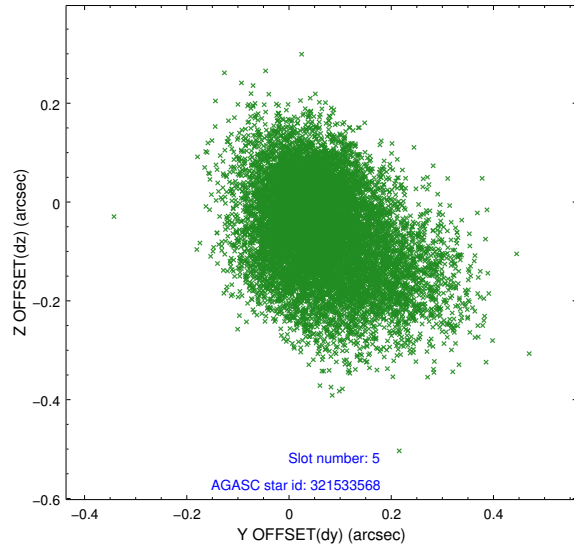
2.4.1 Slot 3



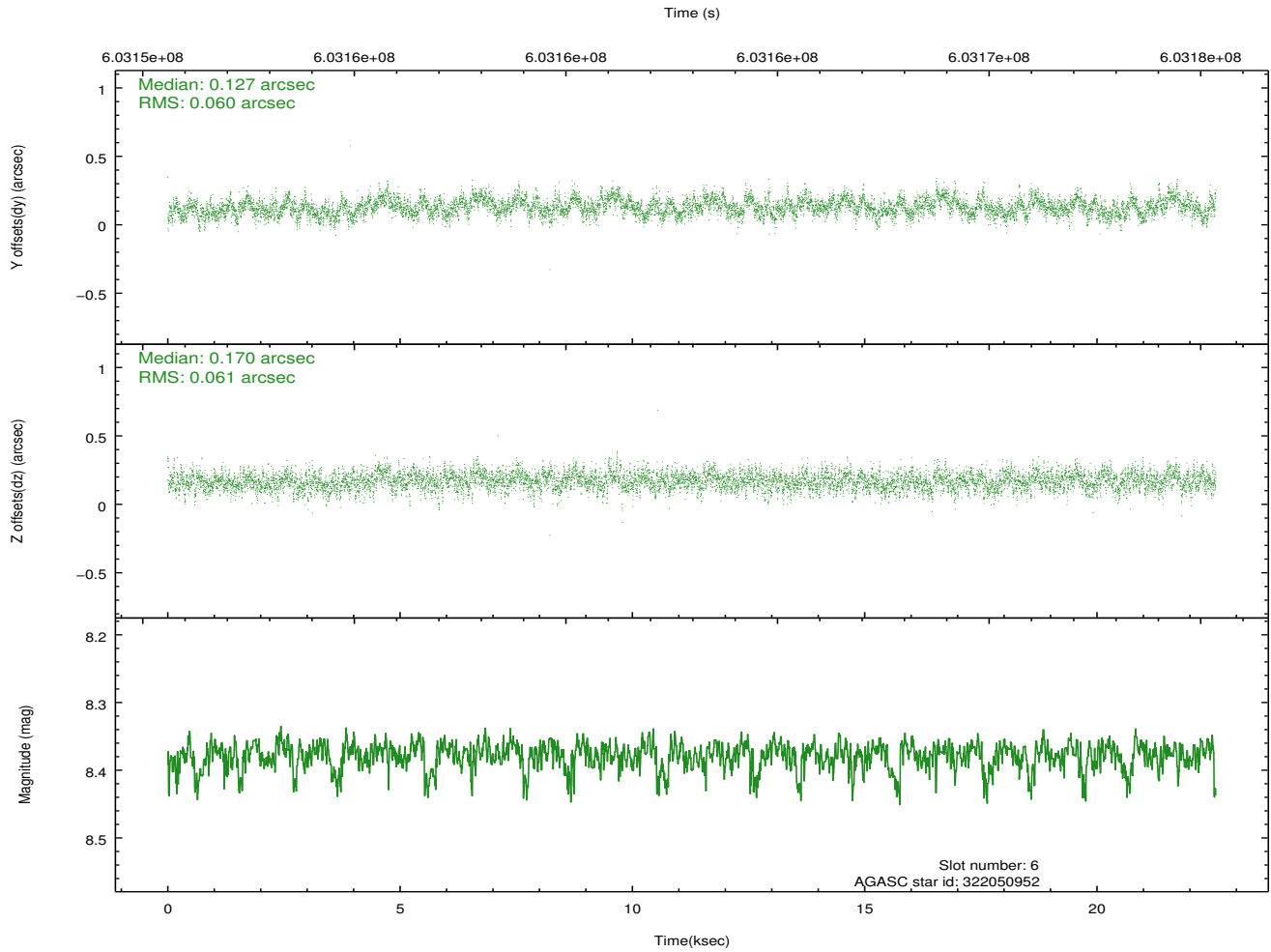
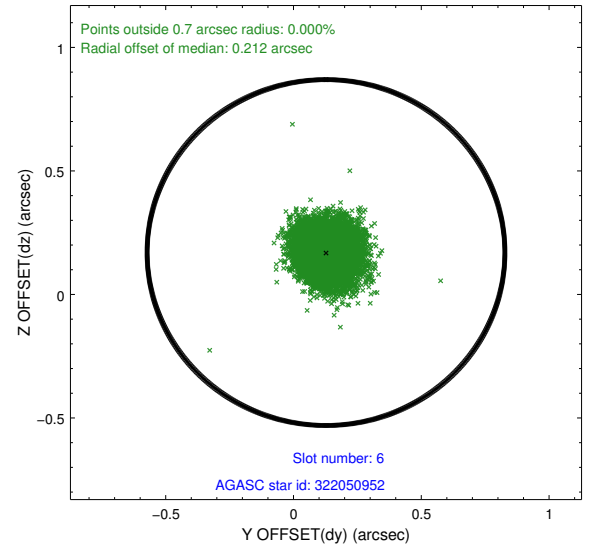
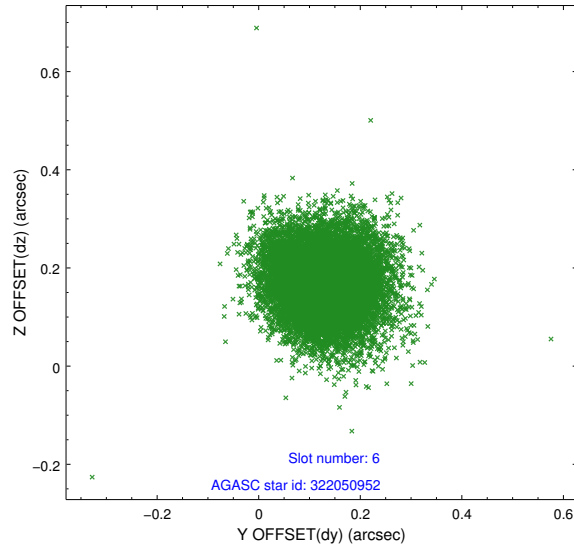
2.4.2 Slot 4



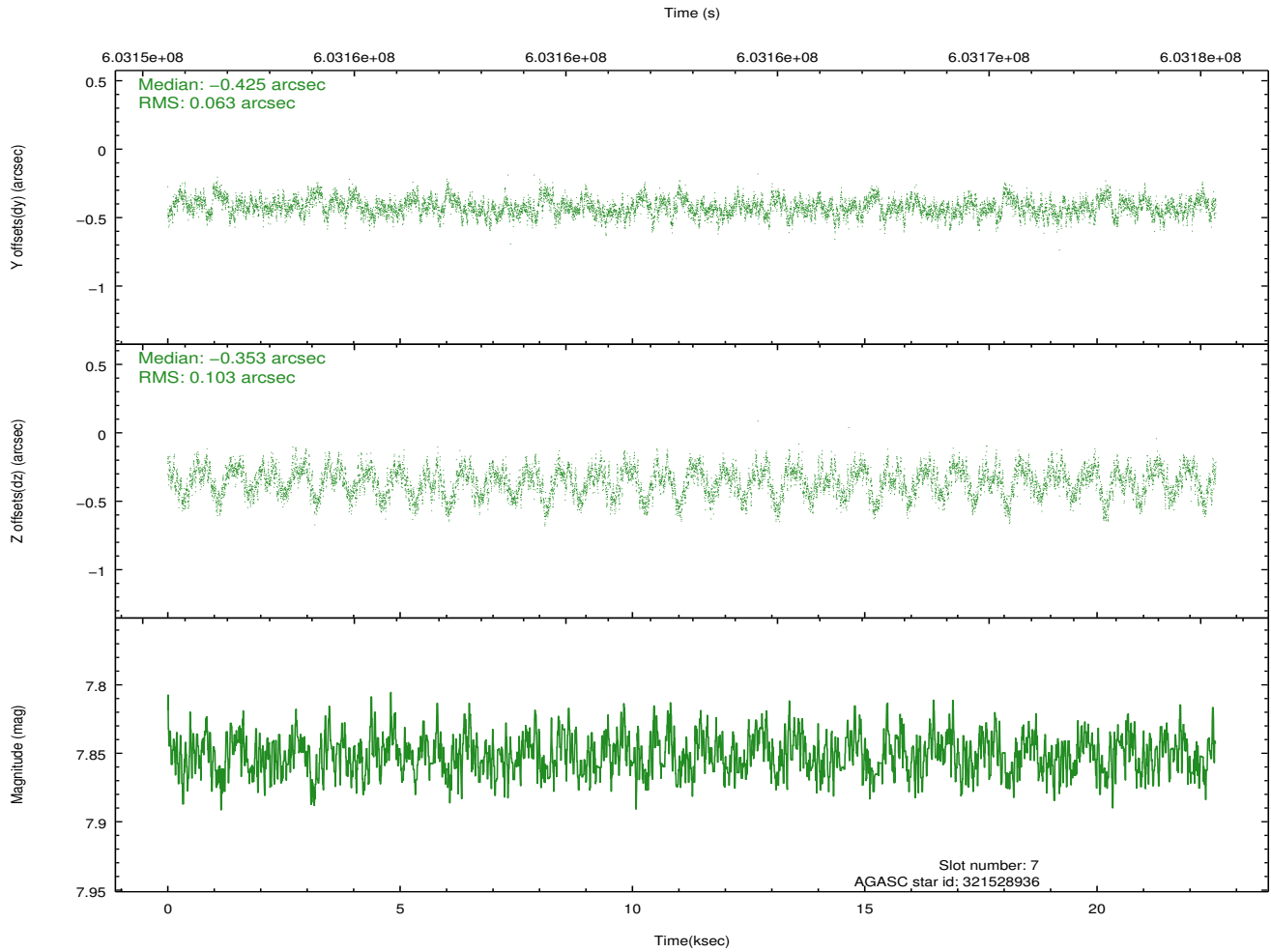
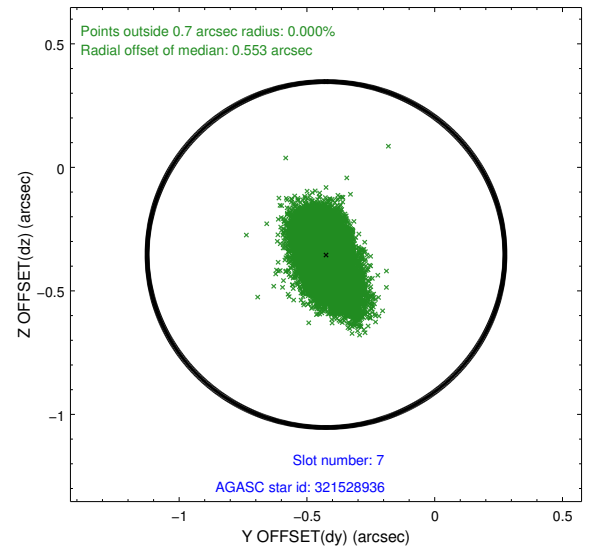
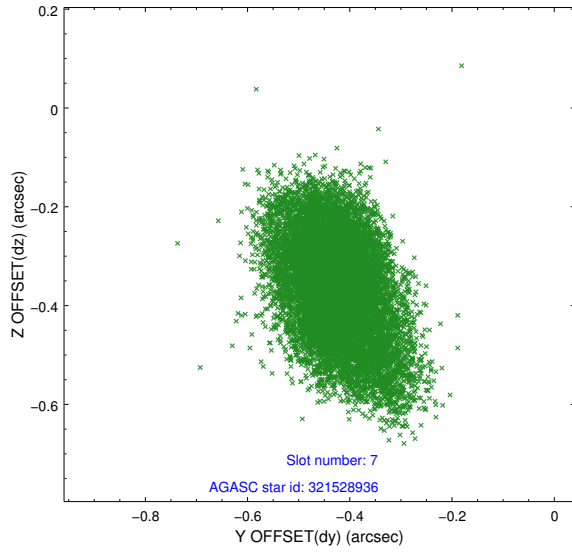
2.4.3 Slot 5



2.4.4 Slot 6

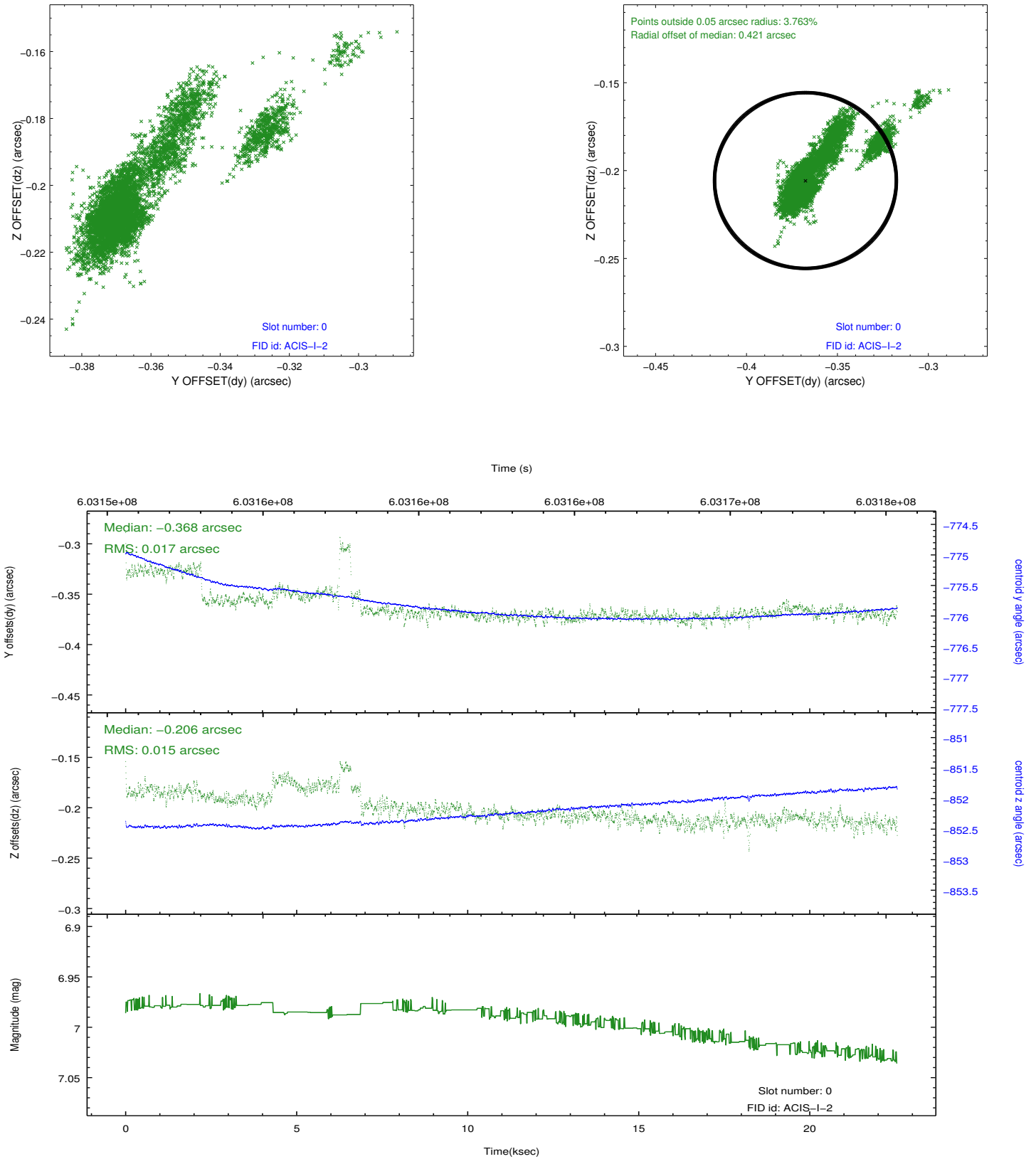


2.4.5 Slot 7

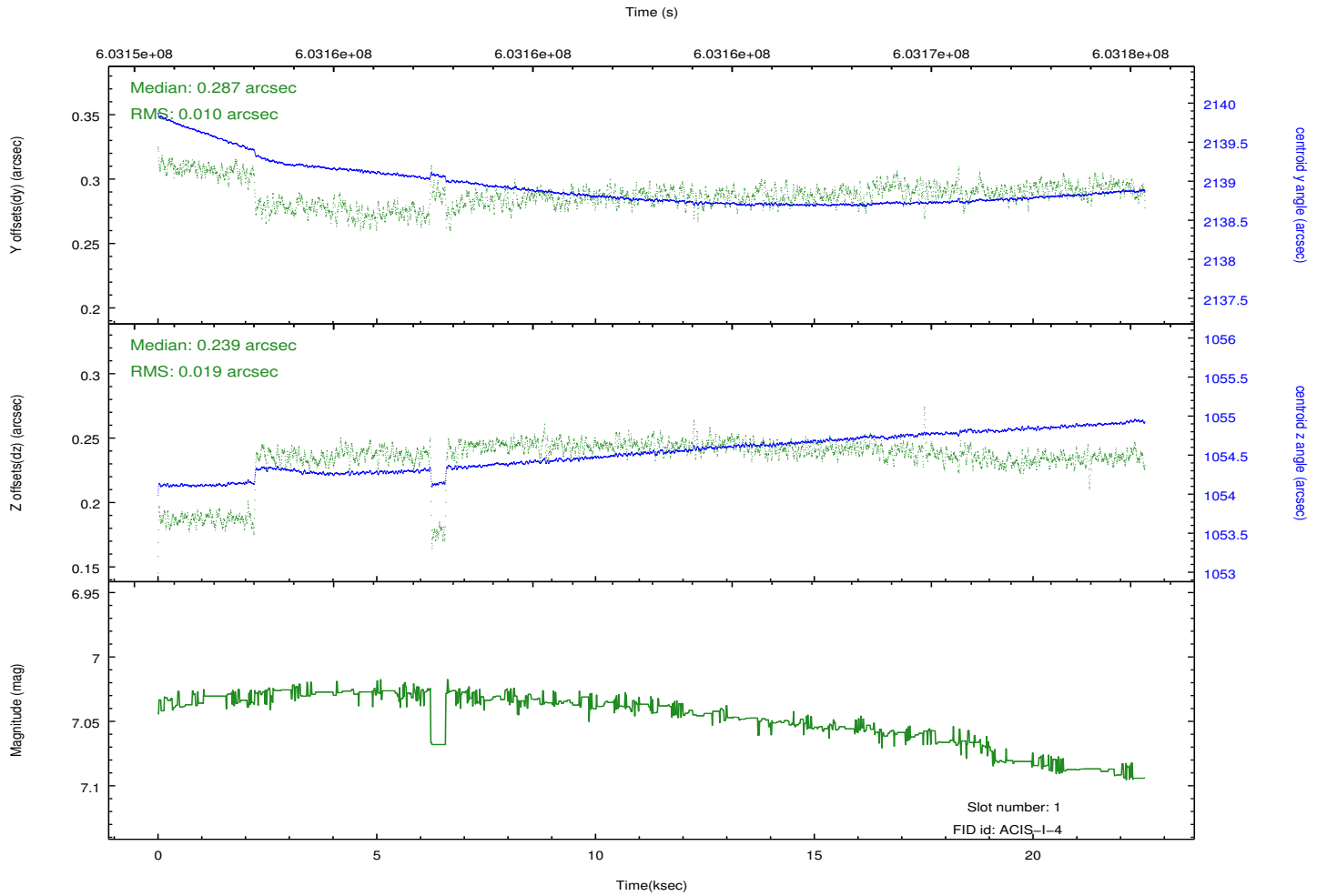
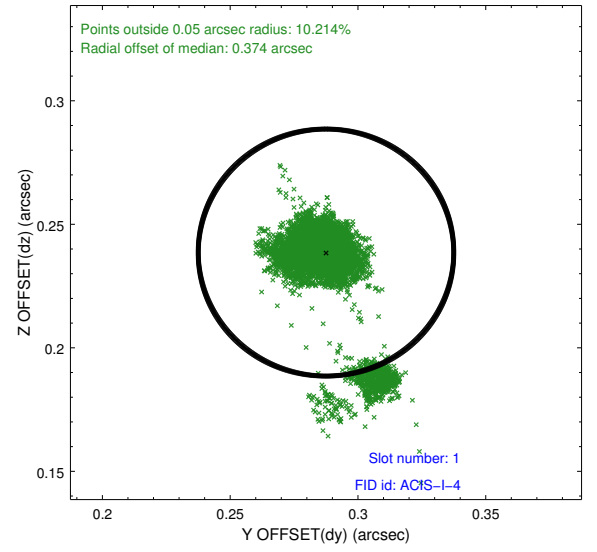
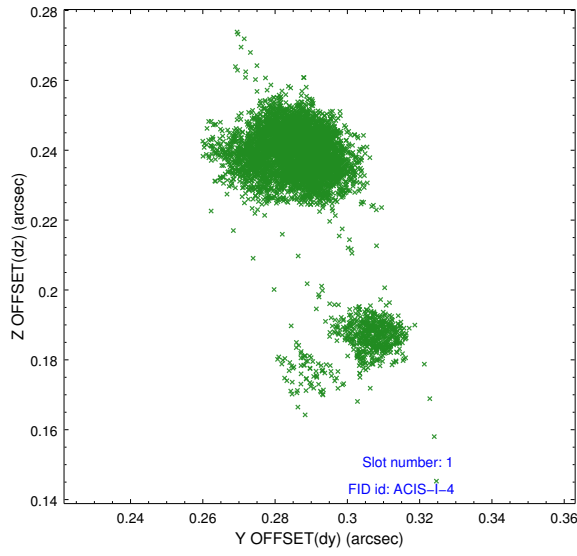


2.5 FID Slots

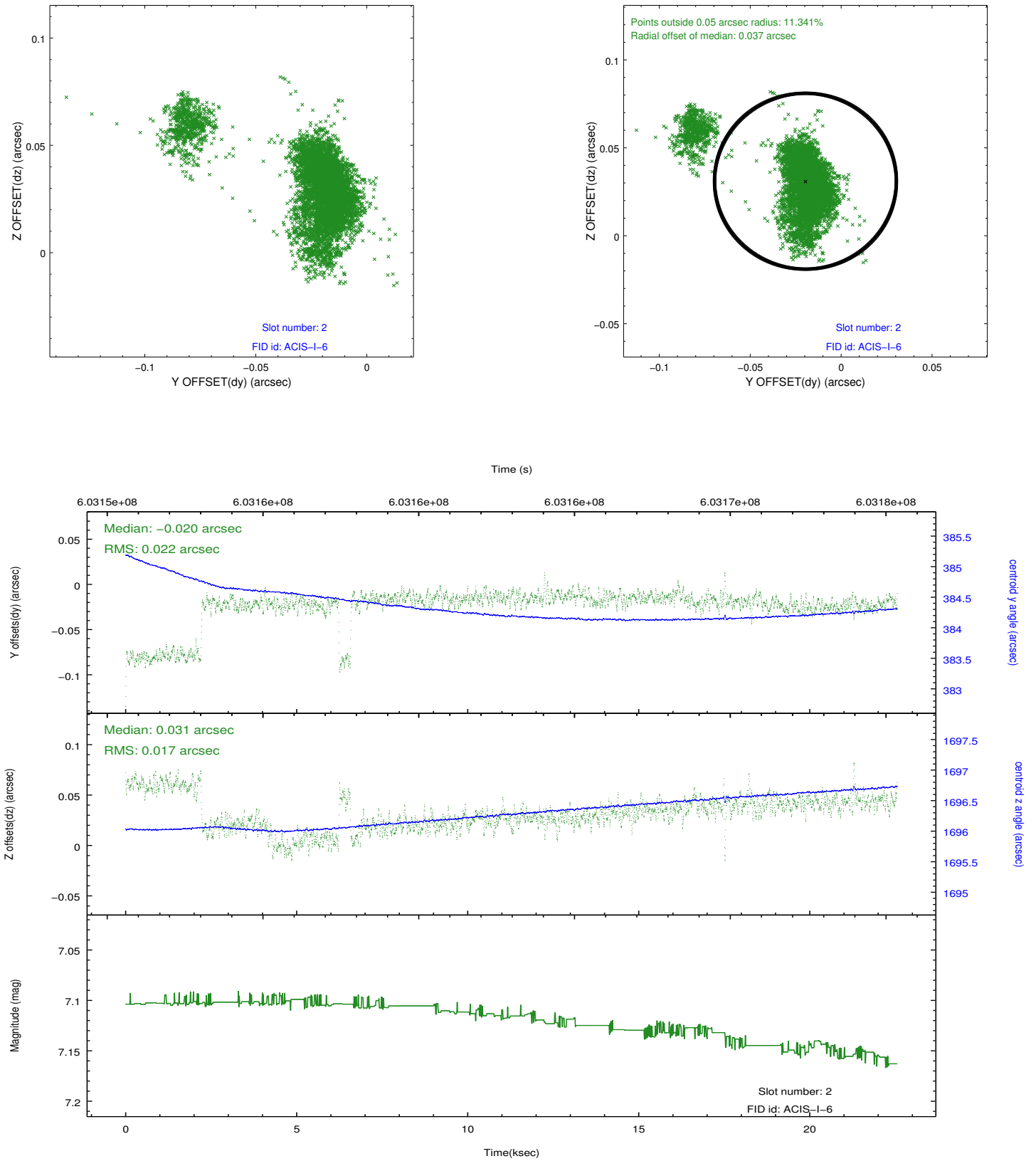
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.02.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.474833232999

A.2 Comments

One optional chip was dropped.