

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16953 - L2 Version 1
Chandra X-Ray Center

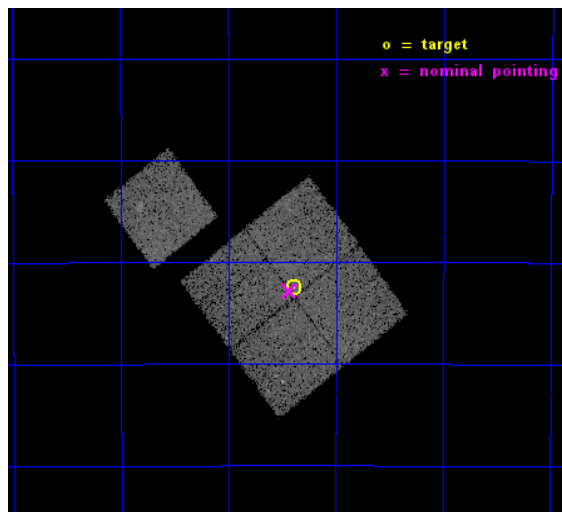
L2 Processing Date : Feb 21 2015

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1 Front

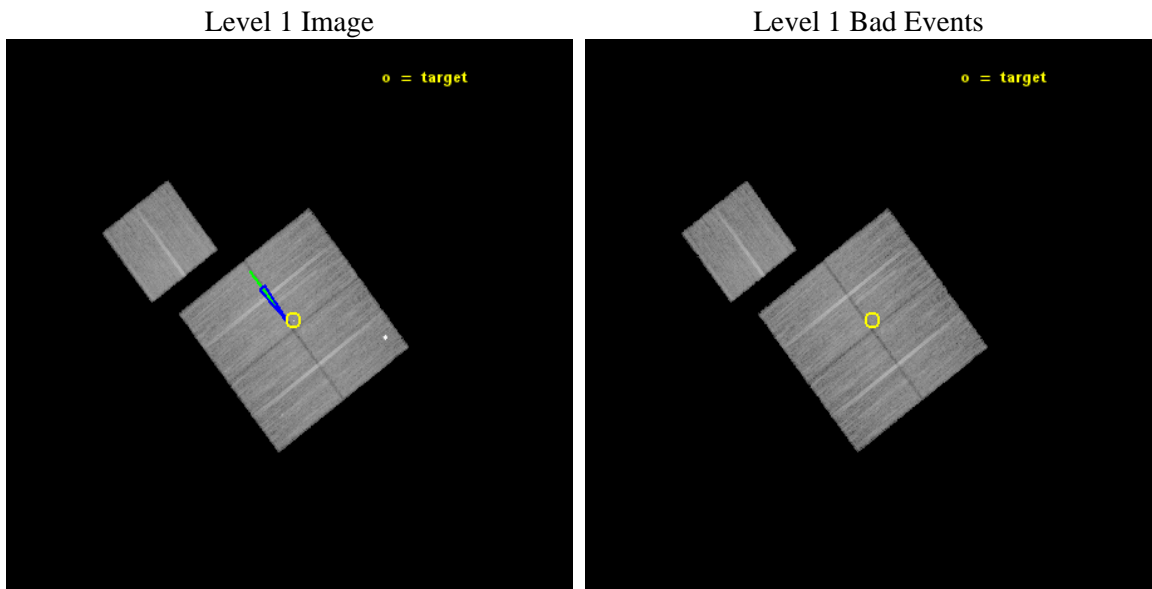
seq_num	502469	Sequence number
obs_id	16953	Observation id
title	The proper motion of the isolated neutron star RXJ0806.4-4123	Prop
observer	Dr. Bettina Posselt	Principal investigator
object	RXJ0806	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	121.5975	Observer's specified target RA [deg]
dec_targ	-41.37525	Observer's specified target Dec [deg]
ra_nom	121.60815454577	Nominal RA [deg]
dec_nom	-41.38038075148	Nominal Dec [deg]
roll_nom	322.61572612722	Nominal Roll [deg]
revision	1	Processing version of data
ontime	35113.61817956	Sum of GTIs [s]
livetime	34654.832907774	Livetime [s]
ontime0	35116.759219885	Sum of GTIs [s]
ontime1	35107.336089492	Sum of GTIs [s]
ontime2	35110.477109313	Sum of GTIs [s]
ontime3	35113.61817956	Sum of GTIs [s]
ontime6	35119.900270224	Sum of GTIs [s]
l2events	60090	Number of level 2 events



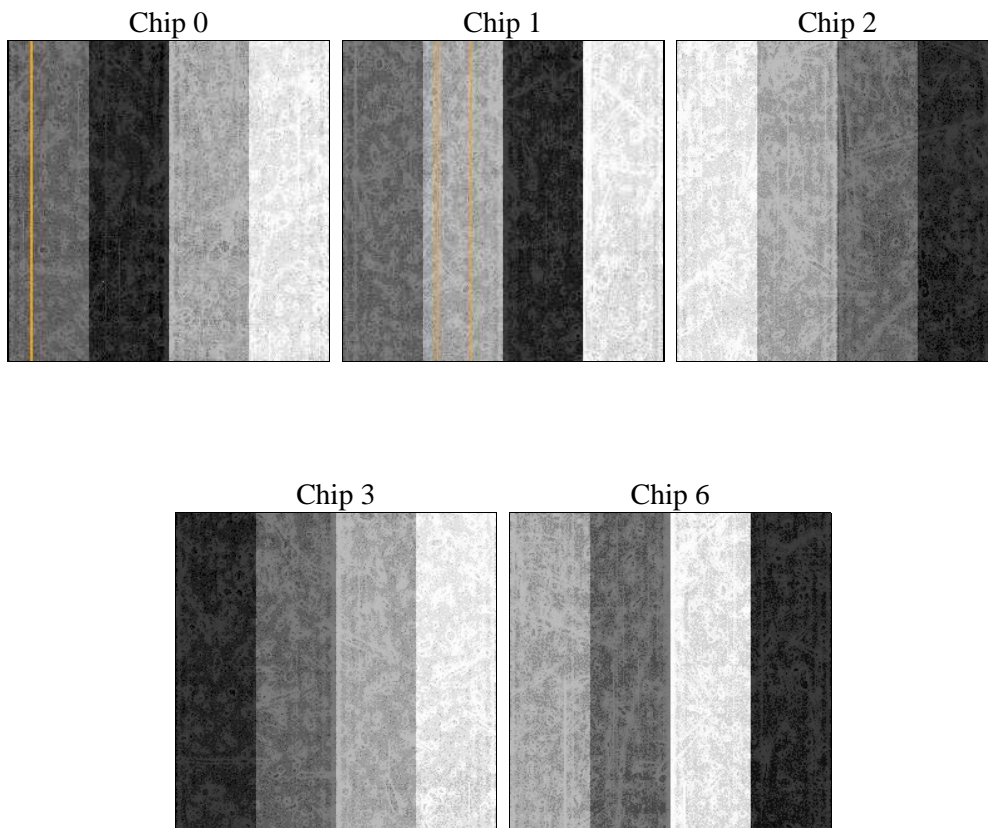
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	35000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	35113.61817956	Sum of GTIs [s]
caldbver	4.6.6	 	ontime0	35116.759219885	Sum of GTIs [s]
date	2015-02-21T22:56:07	Date and time of file creation	ontime1	35107.336089492	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	35110.477109313	Sum of GTIs [s]
			ontime3	35113.61817956	Sum of GTIs [s]
			ontime6	35119.900270224	Sum of GTIs [s]
			l1events	693292	Number of level 1 events

2.1.4 Events

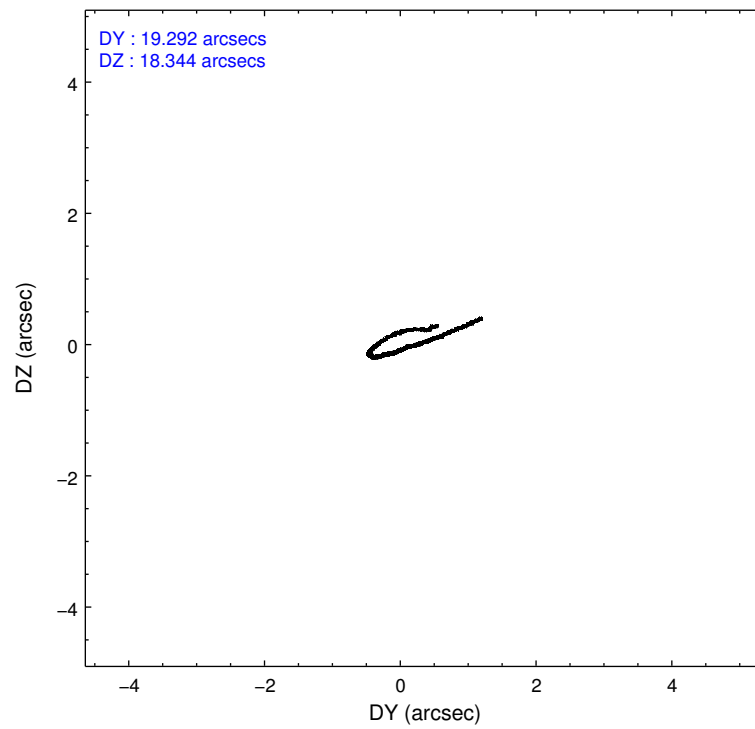
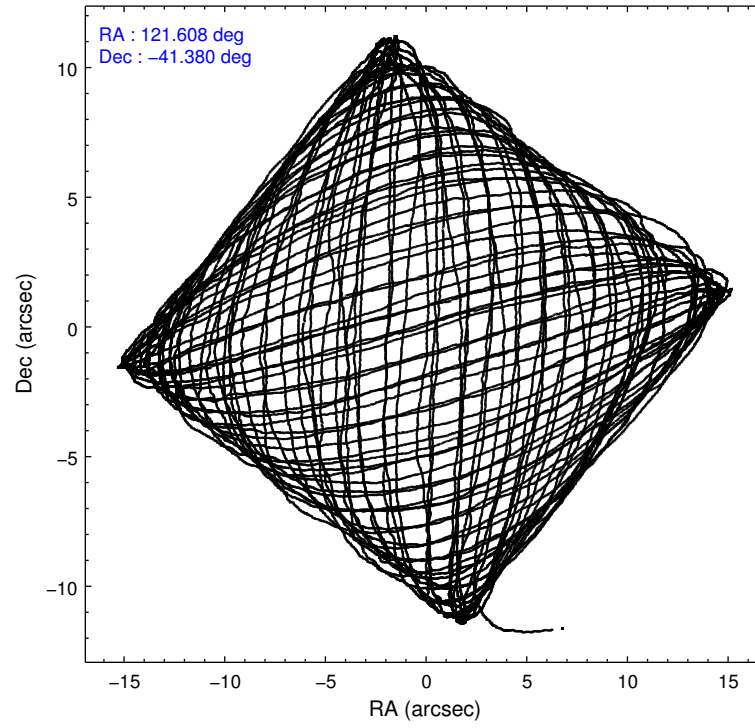
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	132130	139545	145678	135796	140143
rejected events	117144	113618	131743	121407	125223
rejected %	88%	81%	90%	89%	89%

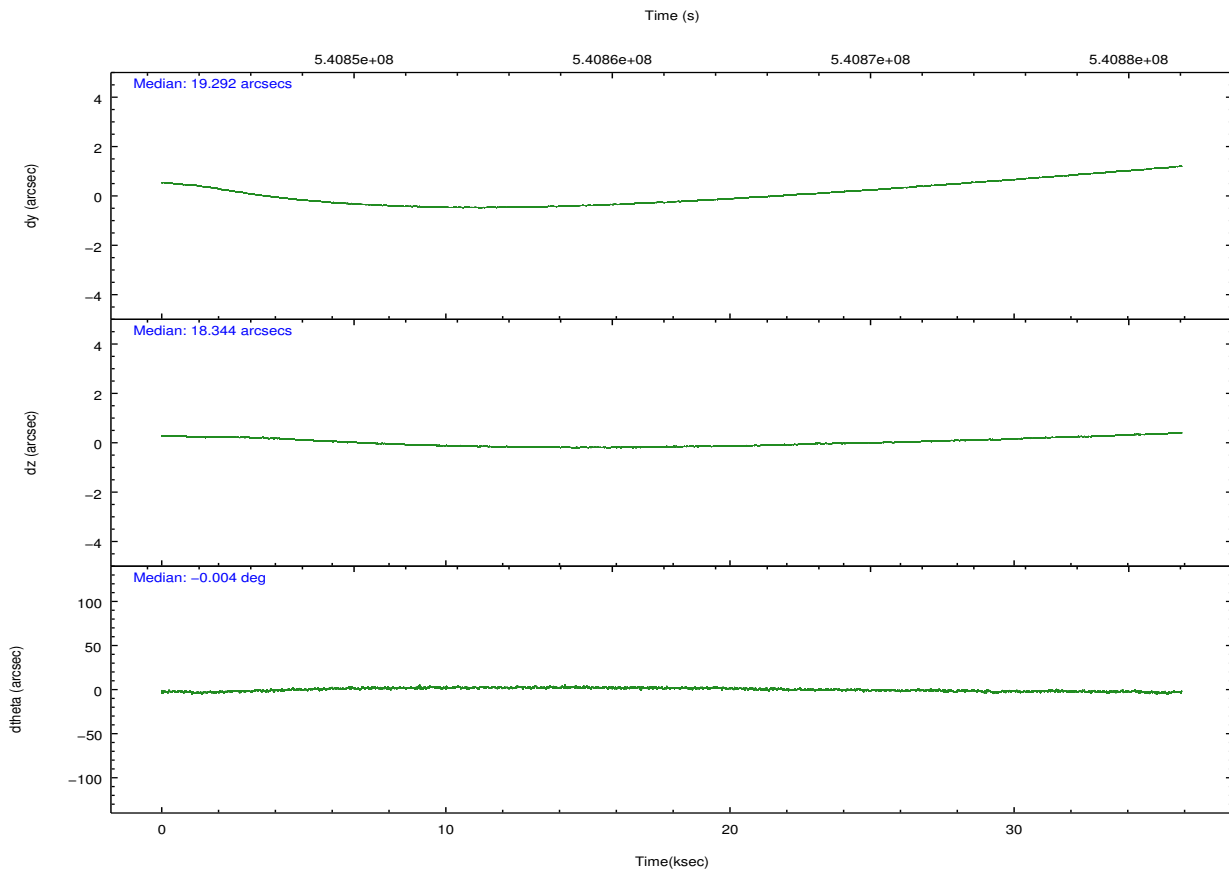
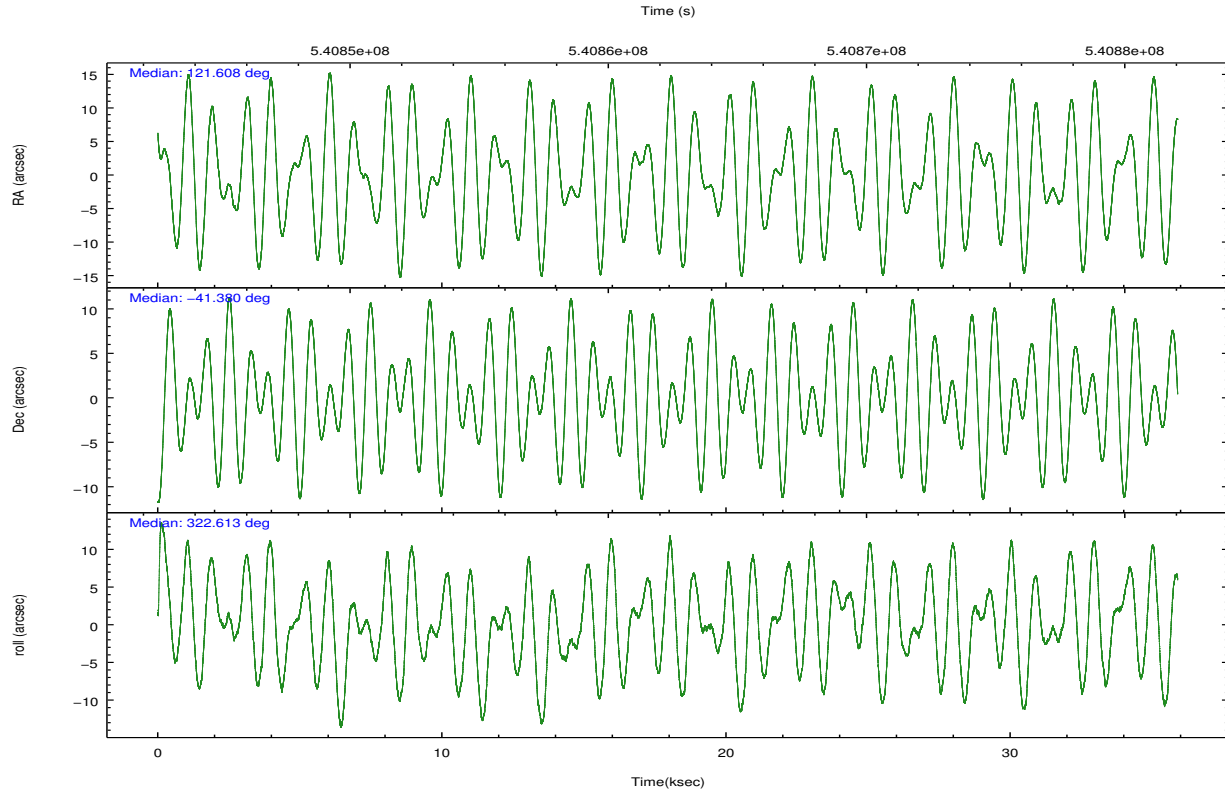
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5965	16438	5698	6261	5909
	4%	11%	3%	4%	4%
grade 1 events	78	86	83	99	75
	0%	0%	0%	0%	0%
grade 2 events	3749	3649	3409	2993	3457
	2%	2%	2%	2%	2%
grade 3 events	1457	1606	1327	1407	1509
	1%	1%	0%	1%	1%
grade 4 events	1387	1541	1370	1391	1422
	1%	1%	0%	1%	1%
grade 5 events	3495	3767	2968	3859	3764
	2%	2%	2%	2%	2%
grade 6 events	2433	2698	2132	2340	2625
	1%	1%	1%	1%	1%
grade 7 events	113566	109760	128691	117446	121382
	85%	78%	88%	86%	86%

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	121.571658	121.6081545457654	CCD I2 on	Y	Y
[deg] Pointing Dec	-41.376931	-41.38038075147983	CCD I3 on	Y	Y
[deg] Pointing Roll	322.382924	322.6157261272223	CCD S0 on	N	N
[deg] Roll angle	322.400000	322.400000	CCD S1 on	N	N
[deg] Roll tolerance	5.000000	5.000000	CCD S2 on	O1	Y
Roll constraint allows 180D rotation	N	N	CCD S3 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S4 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S5 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	Number of optional ACIS chips dropped	0	0
[mm] SIM translation stage offset	0	-0.005018542100998502	On-chip summing requested	N	N
[s] Observation start time (MET)	540845249.184000	540843638.09689	Subarray requested	NONE	NONE
Observation start date	2015-02-20T18:46:22	2015-02-20T18:20:38	Alternating exposures requested	N	N
[s] Observation end time (MET)	540880249.184000	540880968.5989799	[s] Primary exposure time	0.000000	3.1
Observation end date	2015-02-21T04:29:42	2015-02-21T04:42:48			
Read mode	TIMED	TIMED			

2.3 Aspect





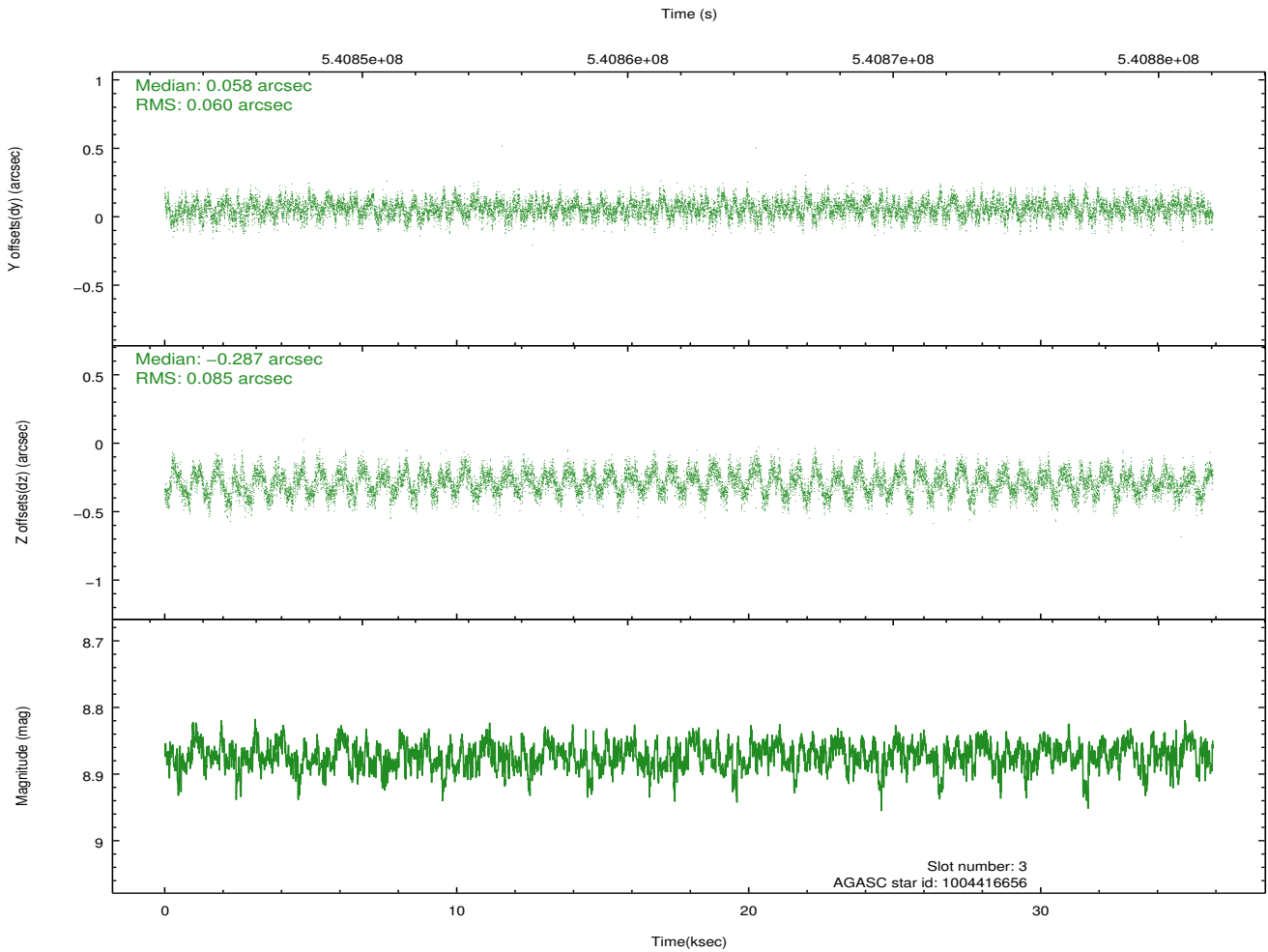
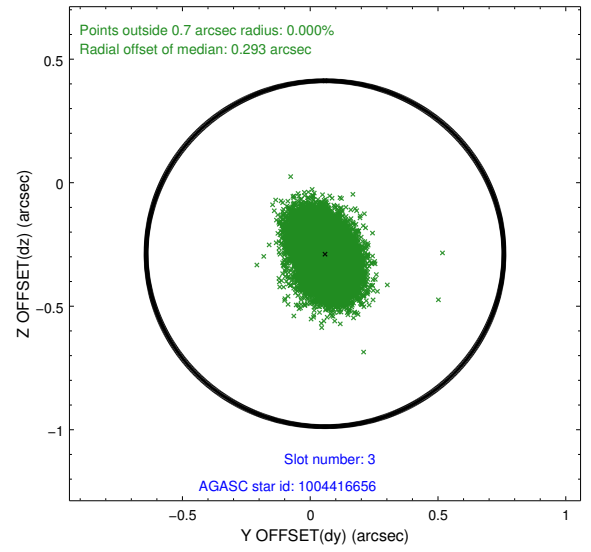
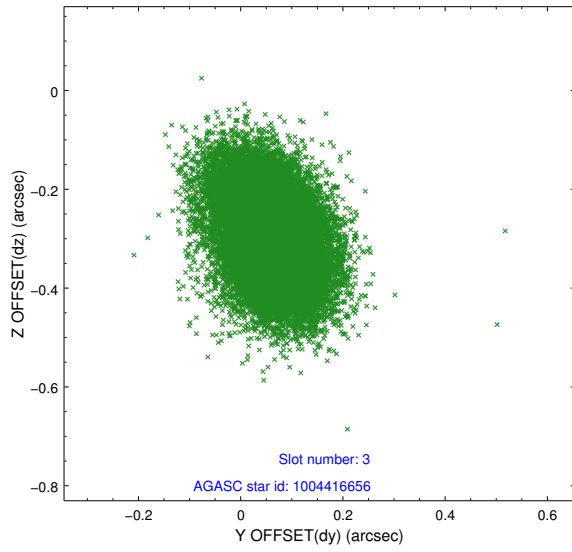
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.09	8753	-0.129	-0.088	0.011	0.020	0.000000	0.000000	-774.33	-848.54
1	FID		ACIS-I-4	7.13	8752	0.363	0.097	0.013	0.030	0.000000	0.000000	2140.13	1057.91
2	FID		ACIS-I-5	7.18	8753	-0.332	0.060	0.014	0.022	0.000000	0.000000	-1828.38	1055.62
3	GUIDE	used	1004416656	8.87	17501	0.058	-0.287	0.112	0.179	121.697217	-40.742577	-1122.23	2017.67
4	GUIDE	used	1004929600	7.26	17506	-0.449	-0.294	0.099	0.151	122.465633	-41.276185	1701.83	1753.89
5	GUIDE	used	1004973776	7.05	17507	-0.015	0.071	0.067	0.107	121.821280	-41.735378	1319.87	-613.13
6	GUIDE	used	1004973784	7.64	17504	0.225	0.099	0.094	0.153	121.932741	-41.812272	1725.81	-651.25
7	GUIDE	used	1004412976	9.29	17492	0.184	0.406	0.153	0.245	120.810429	-41.043846	-2362.96	-318.59

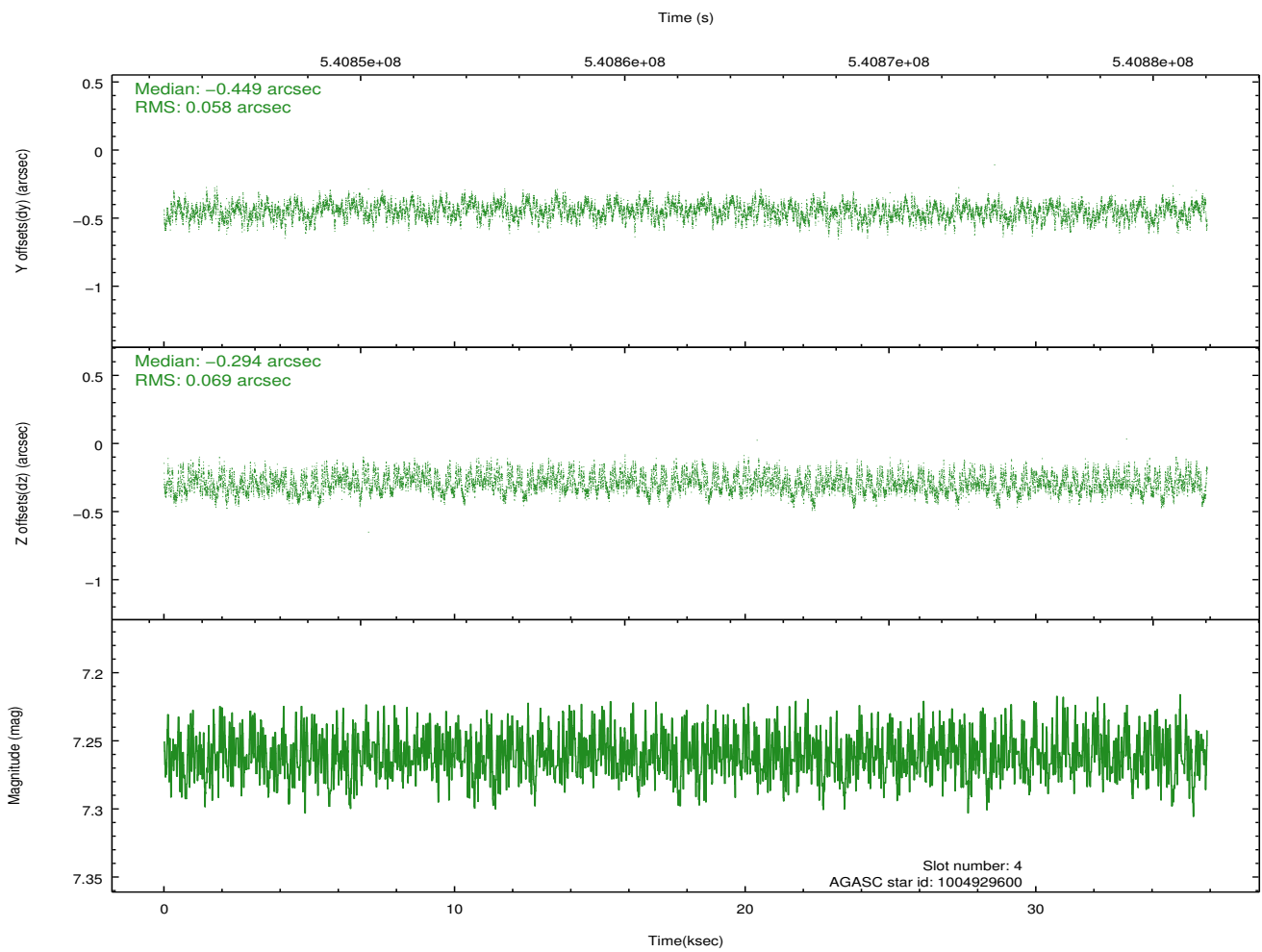
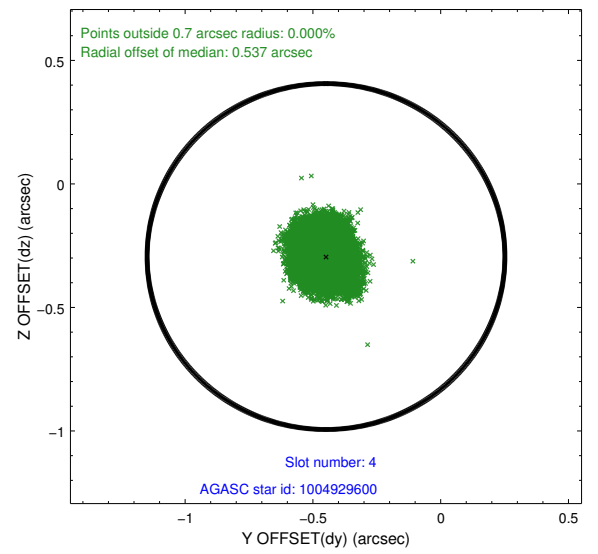
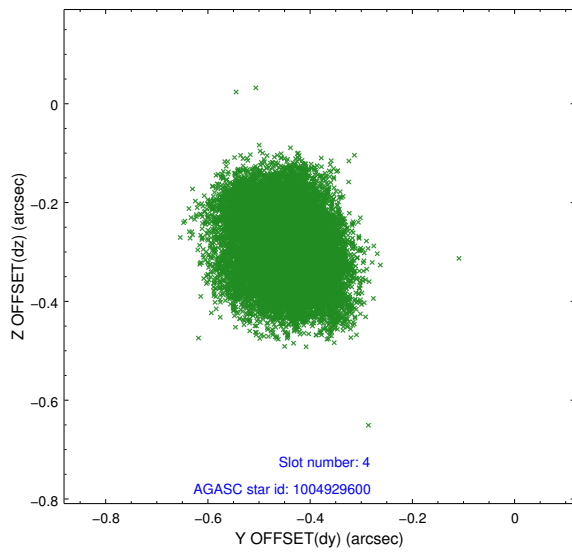
∞

2.4 Star Slots

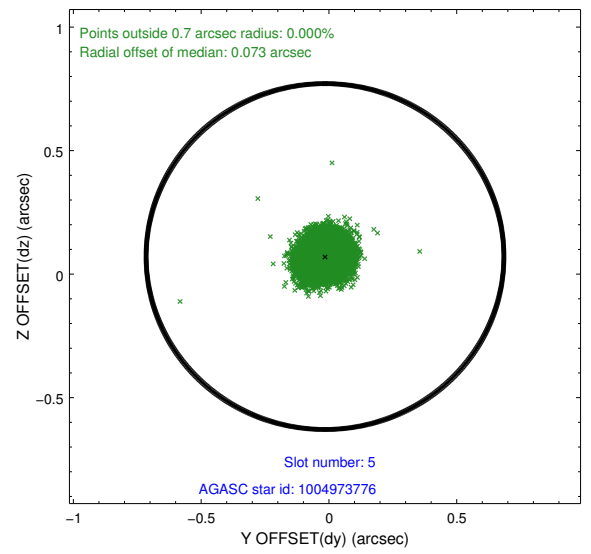
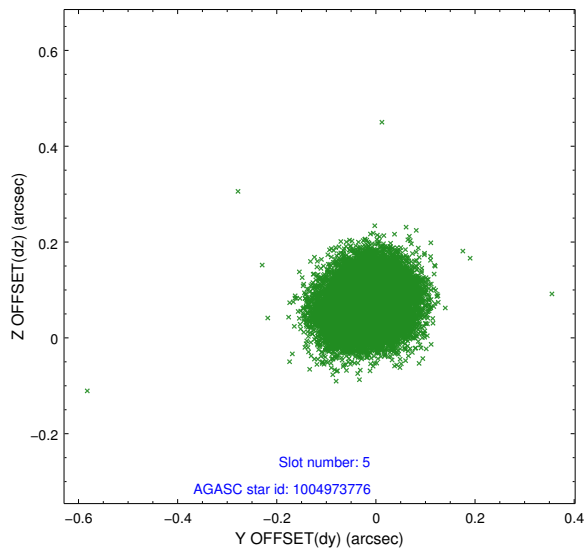
2.4.1 Slot 3



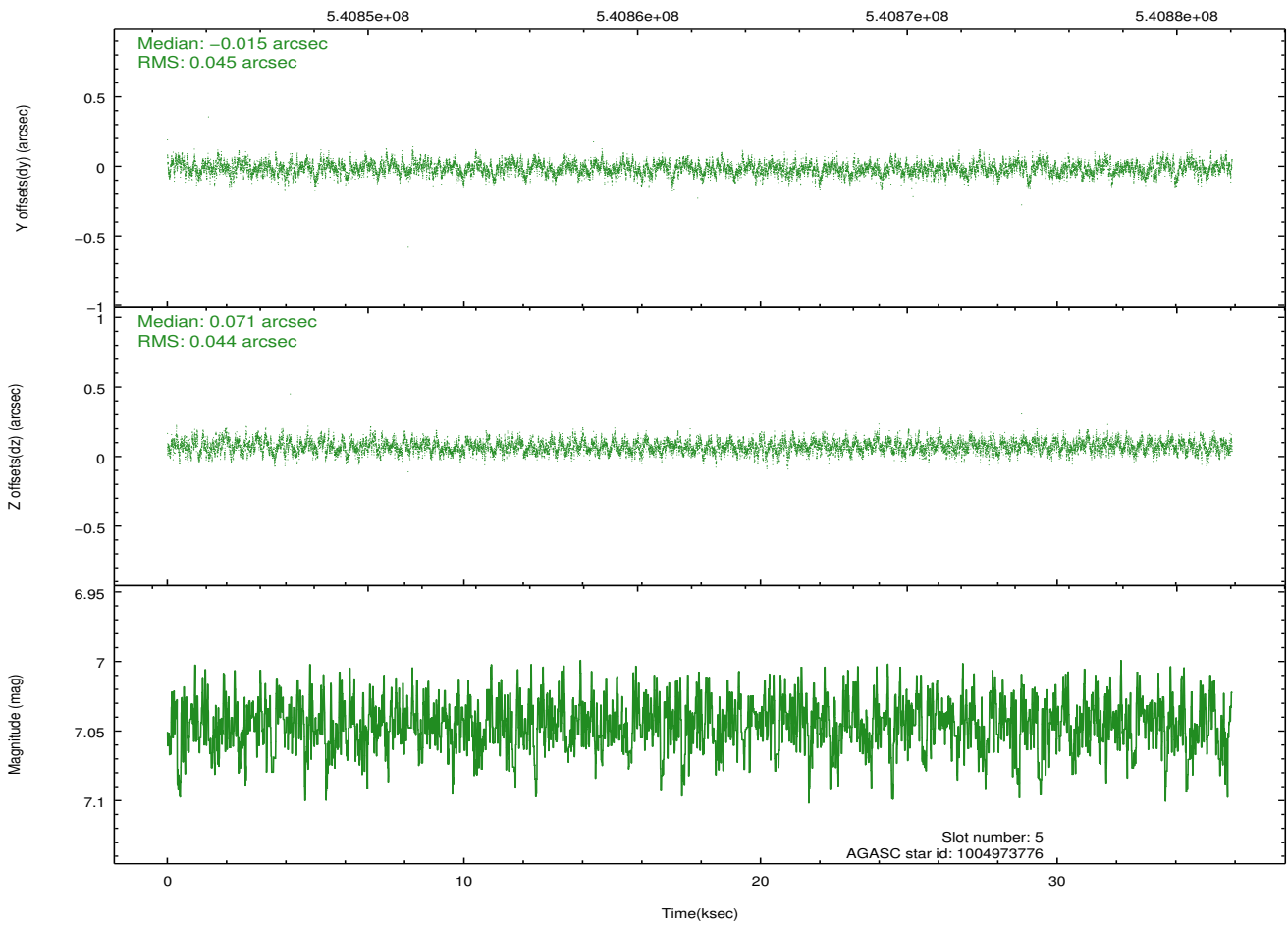
2.4.2 Slot 4



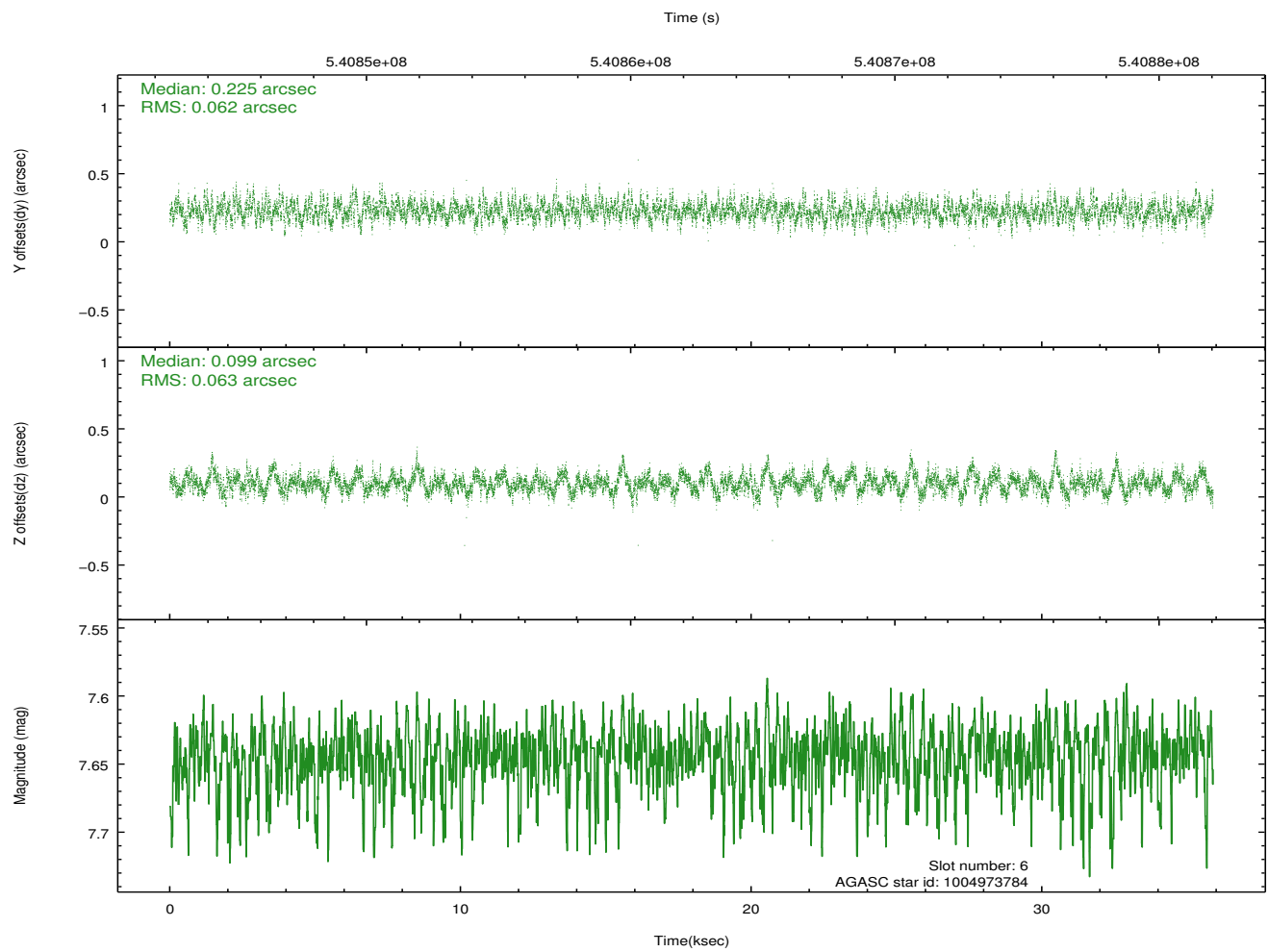
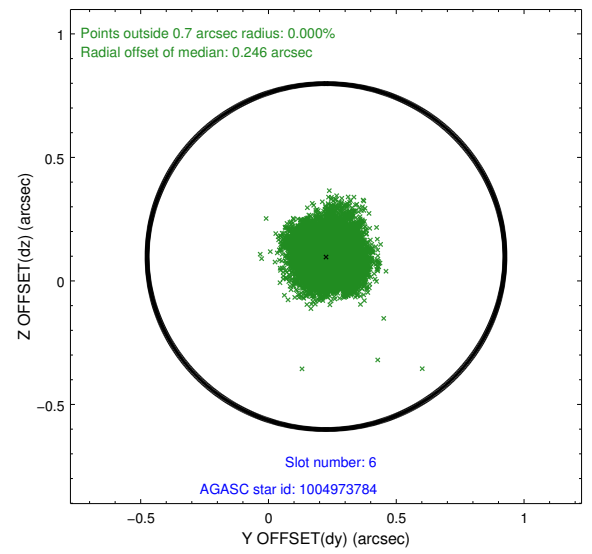
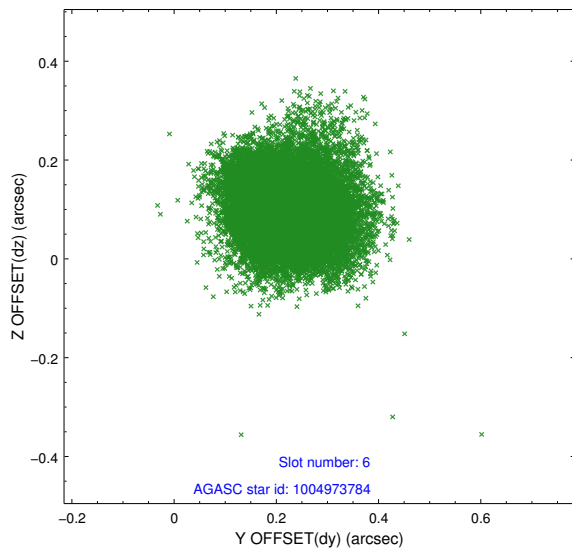
2.4.3 Slot 5



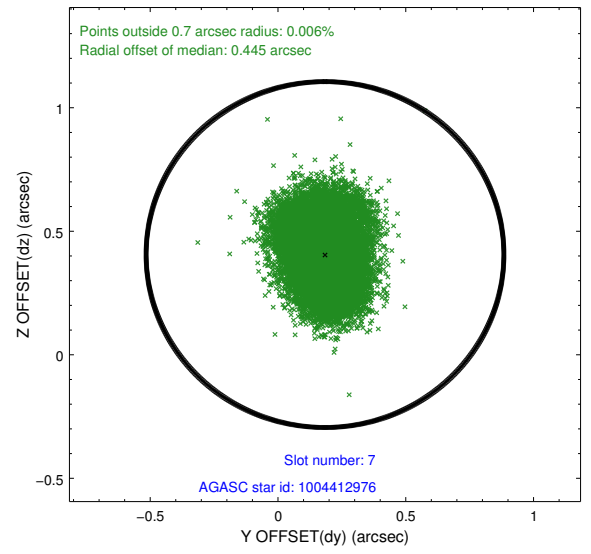
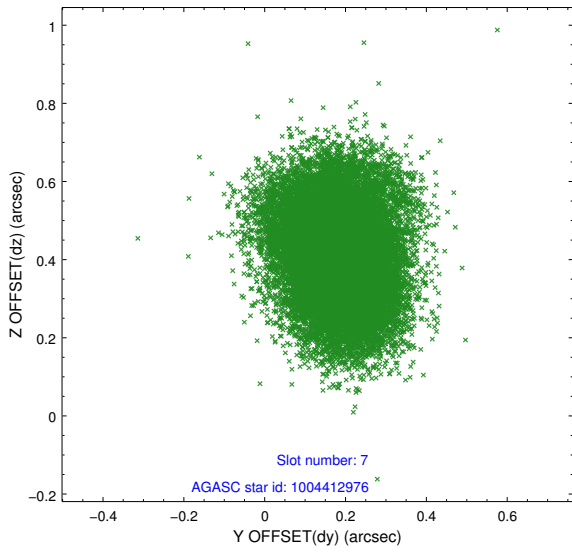
Time (s)



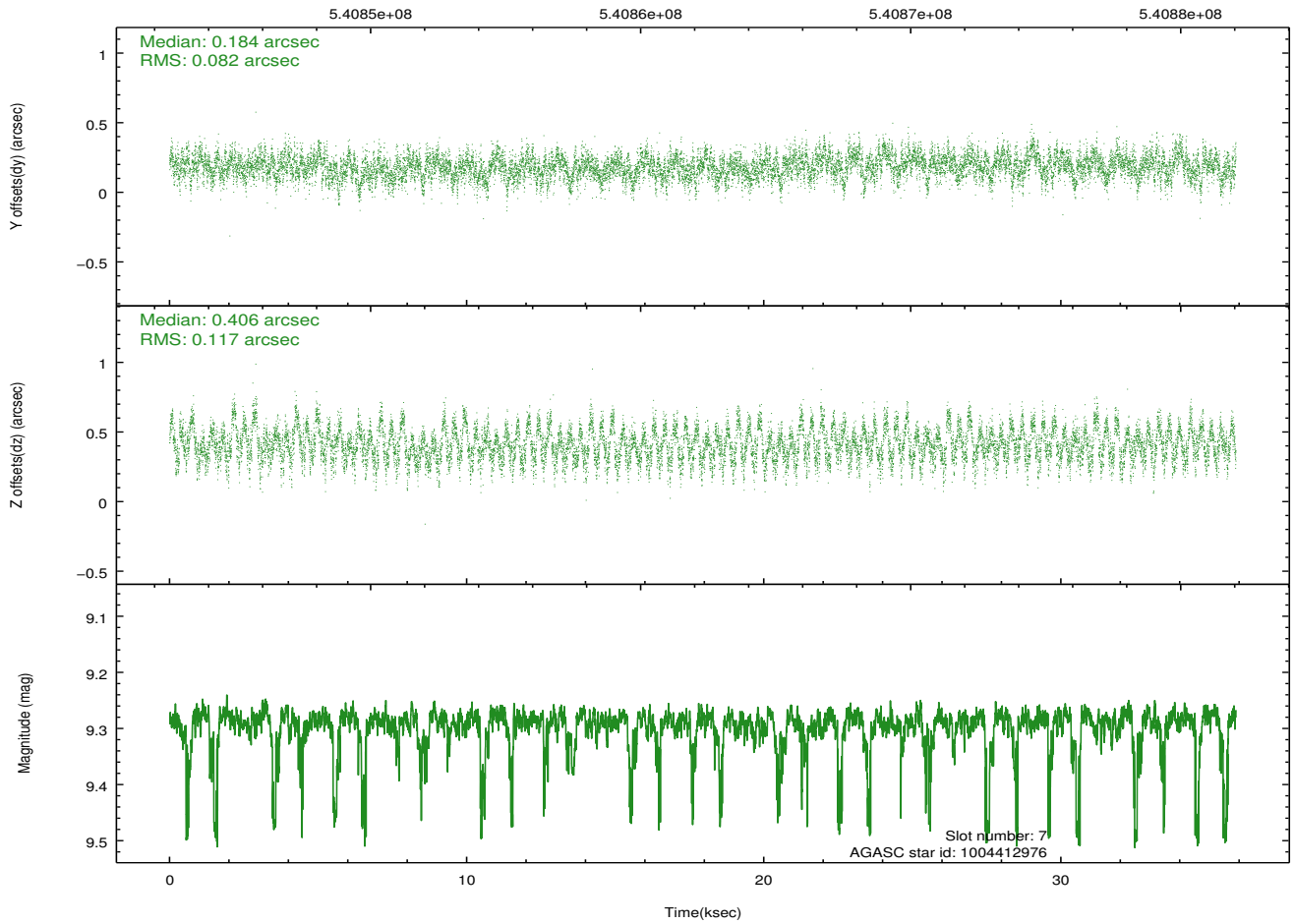
2.4.4 Slot 6



2.4.5 Slot 7

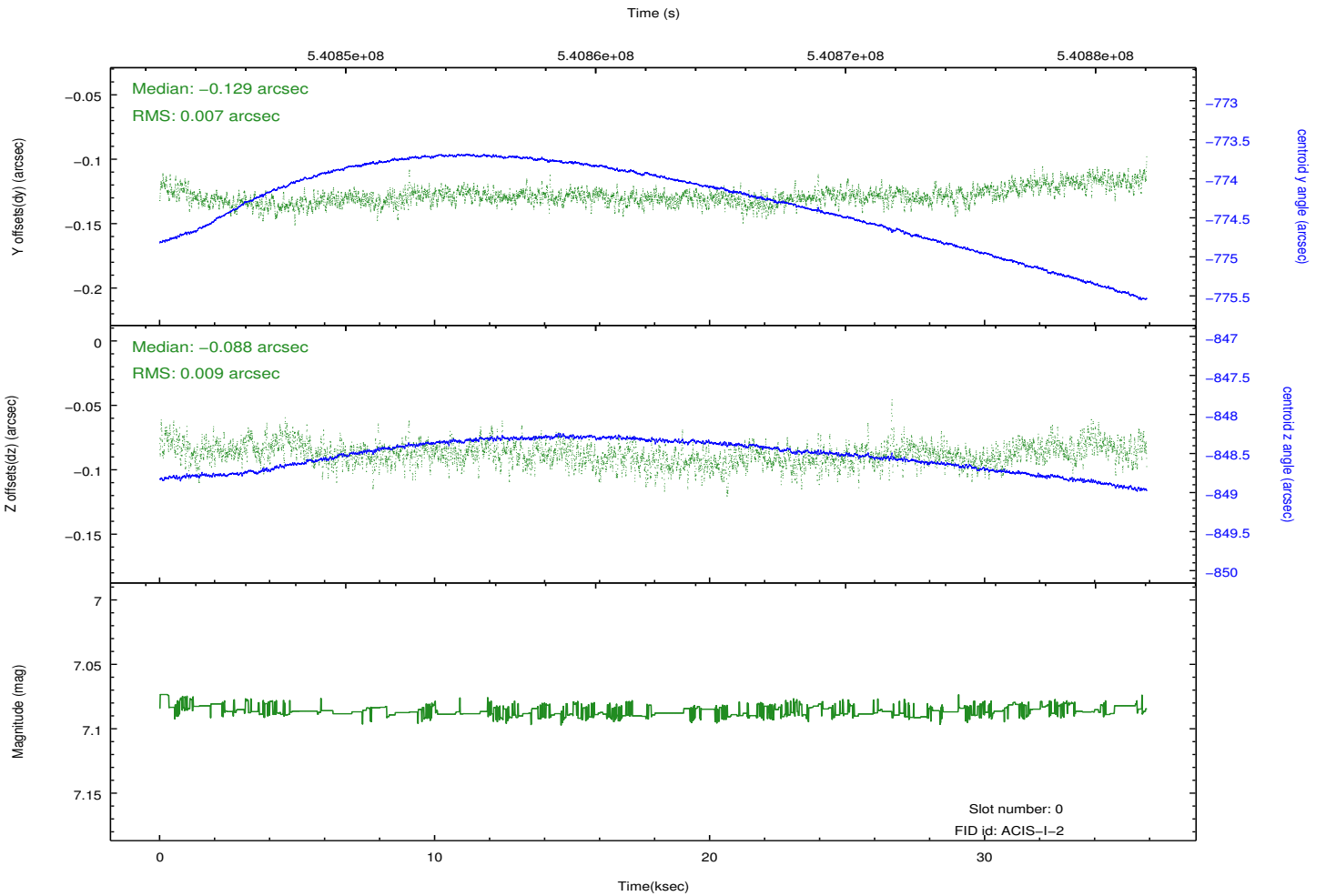
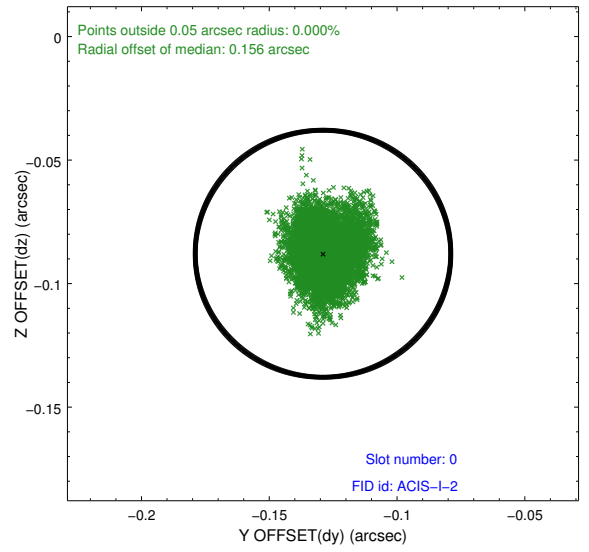
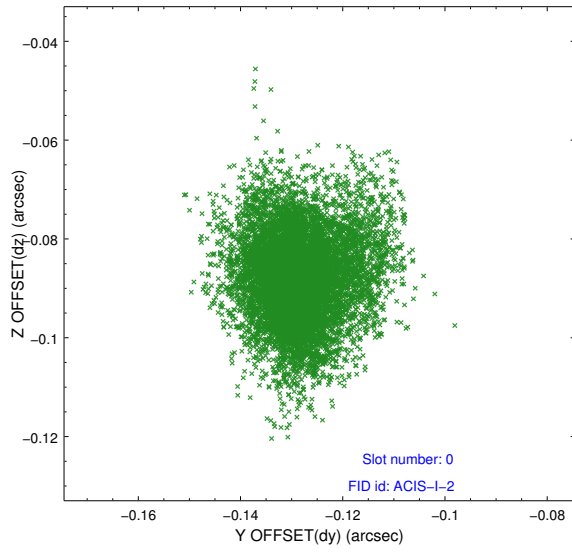


Time (s)

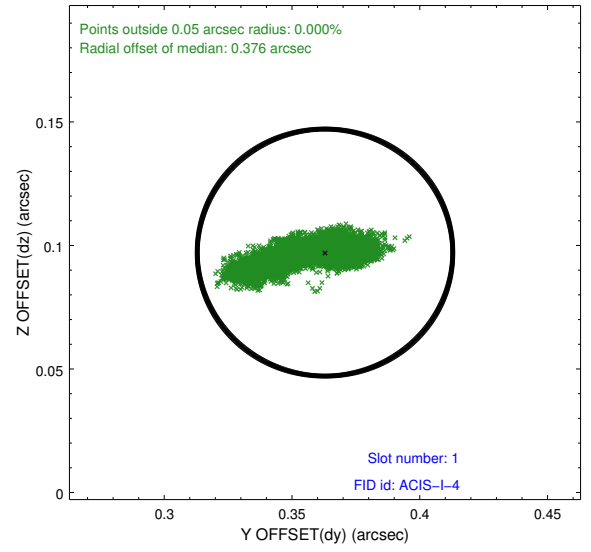
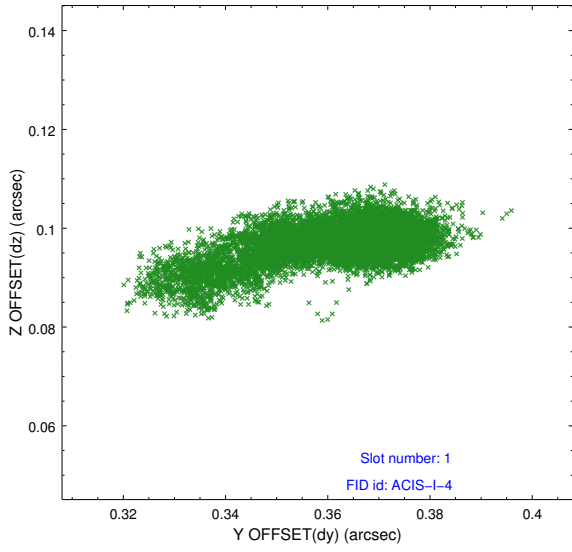


2.5 FID Slots

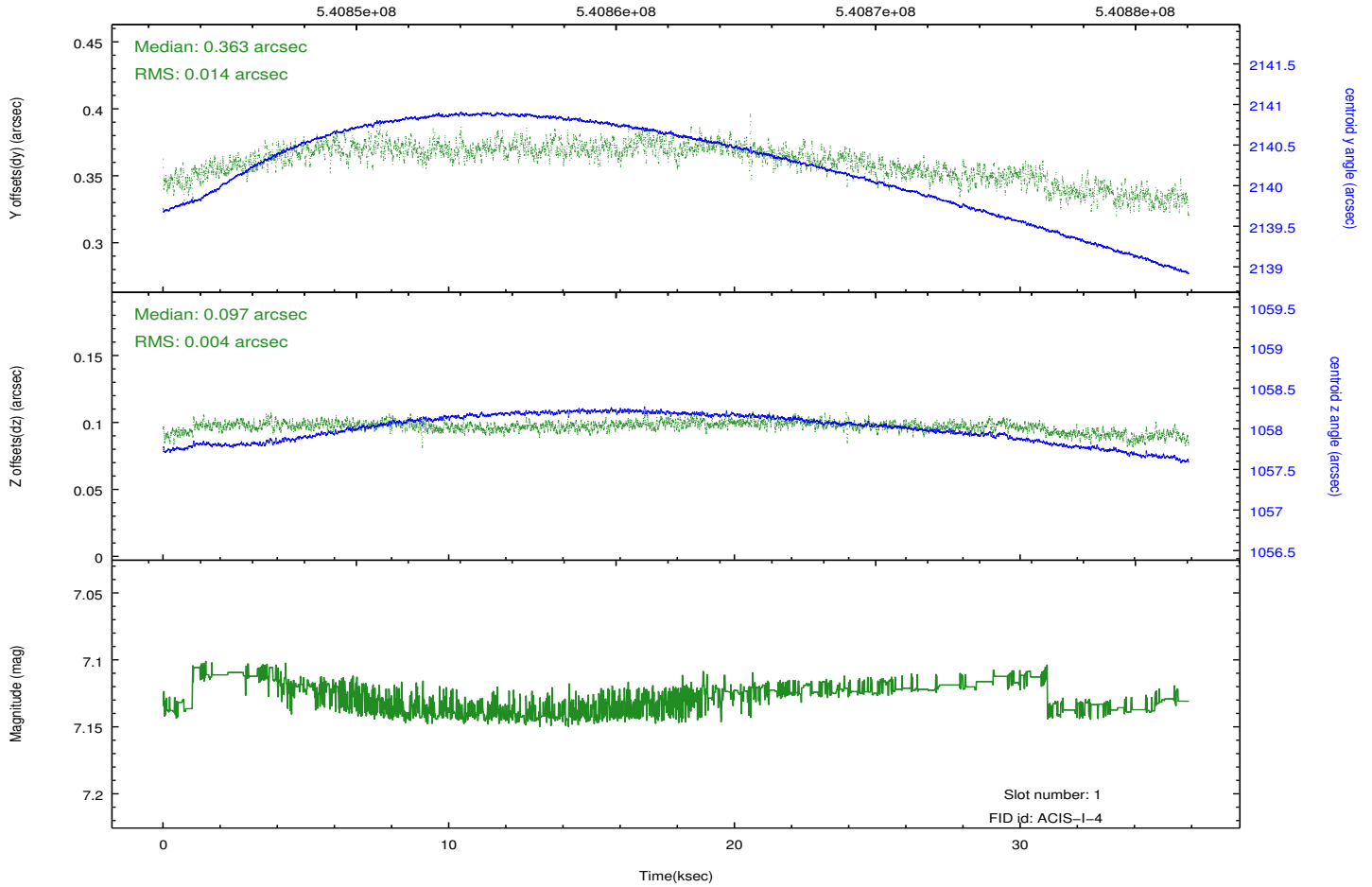
2.5.1 Slot 0



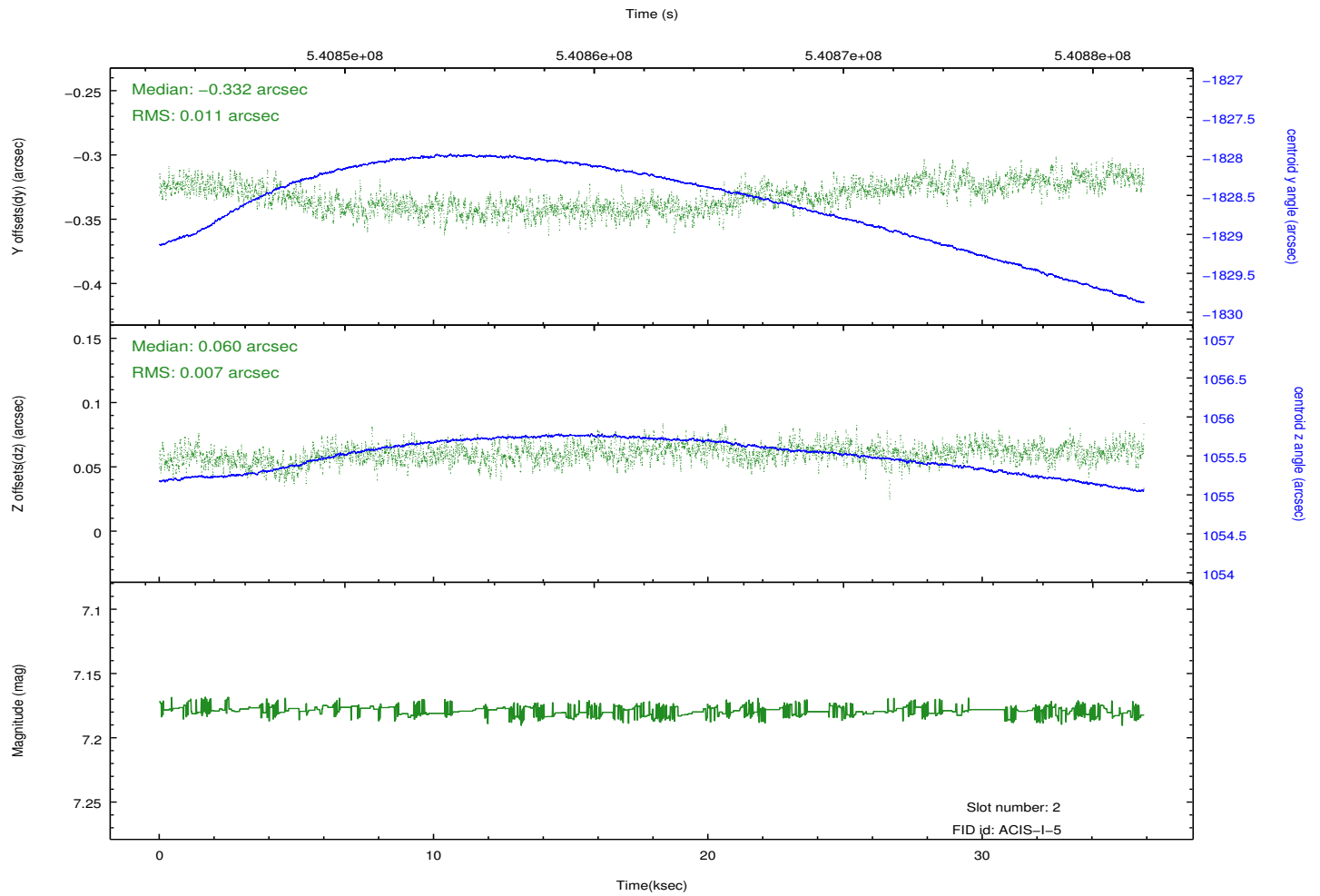
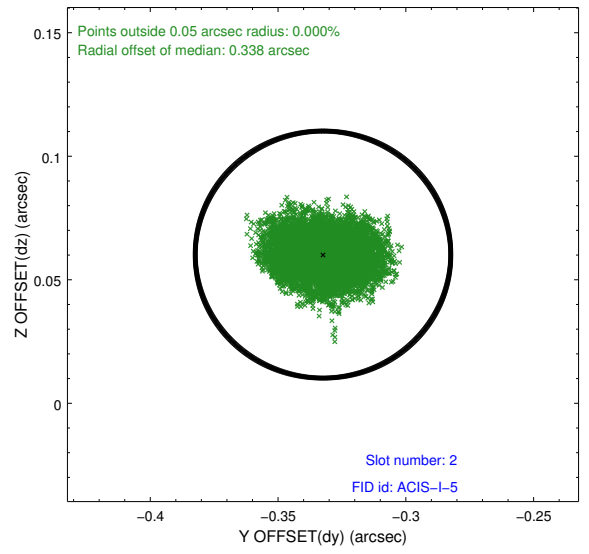
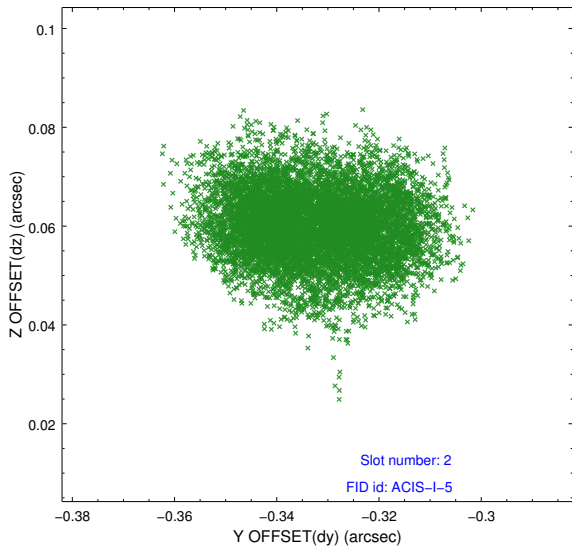
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.02.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.11361817956

A.2 Comments

Roll preference met.