

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 19891 - L2 Version 1
Chandra X-Ray Center

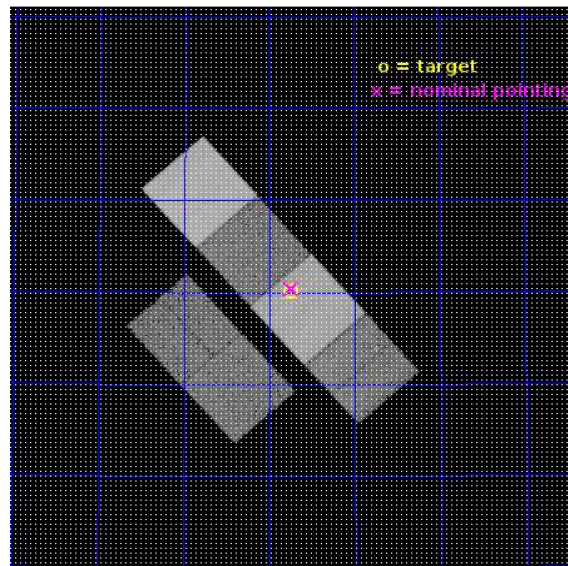
L2 Processing Date : Oct 23 2016

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1 Front

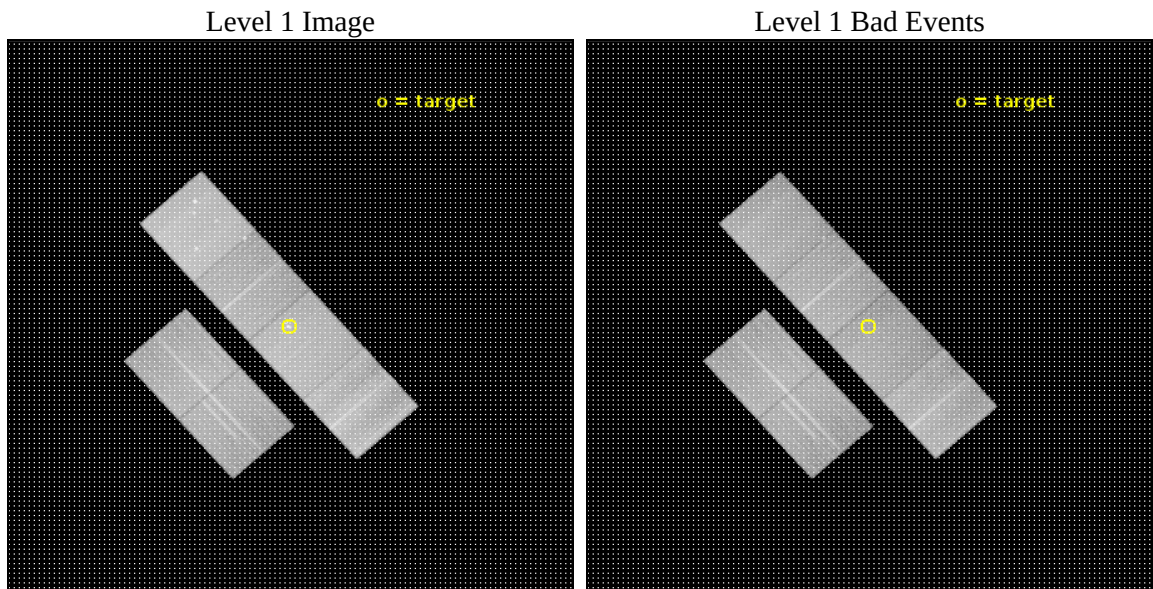
seq_num	401889	Sequence number
obs_id	19891	Observation id
title	Constraining the mass of an IMBH candidate in NGC 3310	Proposal ti
observer	Hannah Earnshaw	Principal investigator
object	CXOU J103844.8+533003	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	159.686667	Observer's specified target RA [deg]
dec_targ	53.501111	Observer's specified target Dec [deg]
ra_nom	159.68567168221	Nominal RA [deg]
dec_nom	53.507003172232	Nominal Dec [deg]
roll_nom	48.424980824118	Nominal Roll [deg]
revision	1	Processing version of data
ontime	36302.609344482	Sum of GTIs [s]
livetime	35842.923846156	Livetime [s]
ontime2	36302.650384426	Sum of GTIs [s]
ontime3	36302.486224413	Sum of GTIs [s]
ontime5	36302.56830442	Sum of GTIs [s]
ontime6	36299.286244154	Sum of GTIs [s]
ontime7	36302.609344482	Sum of GTIs [s]
ontime8	36302.445184469	Sum of GTIs [s]
l2events	424479	Number of level 2 events



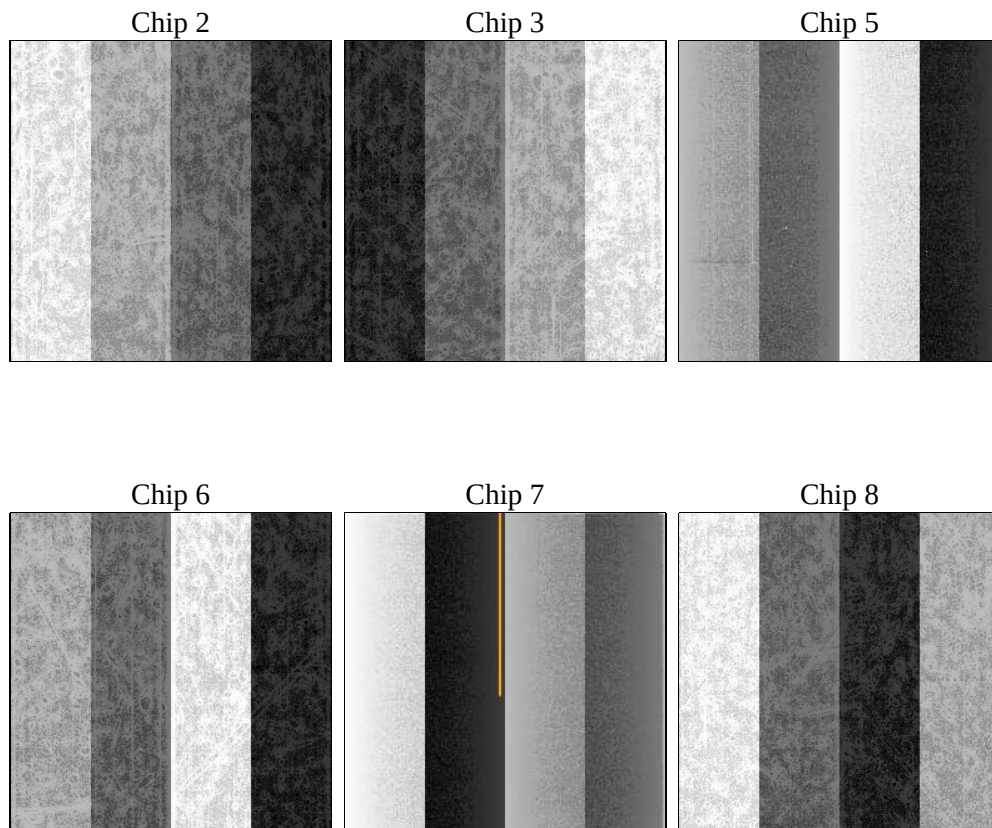
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36369.909000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	36302.609344482	Sum of GTIs [s]
caldsver	4.7.2	 	ontime2	36302.650384426	Sum of GTIs [s]
date	2016-10-23T10:30:01	Date and time of file creation	ontime3	36302.486224413	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	36302.56830442	Sum of GTIs [s]
			ontime6	36299.286244154	Sum of GTIs [s]
			ontime7	36302.609344482	Sum of GTIs [s]
			ontime8	36302.445184469	Sum of GTIs [s]
			l1events	1844835	Number of level 1 events

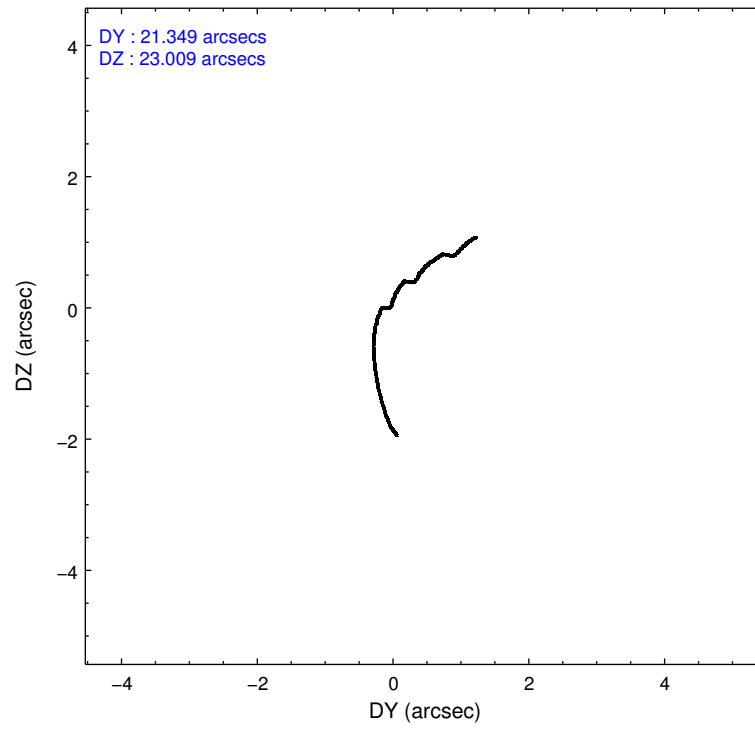
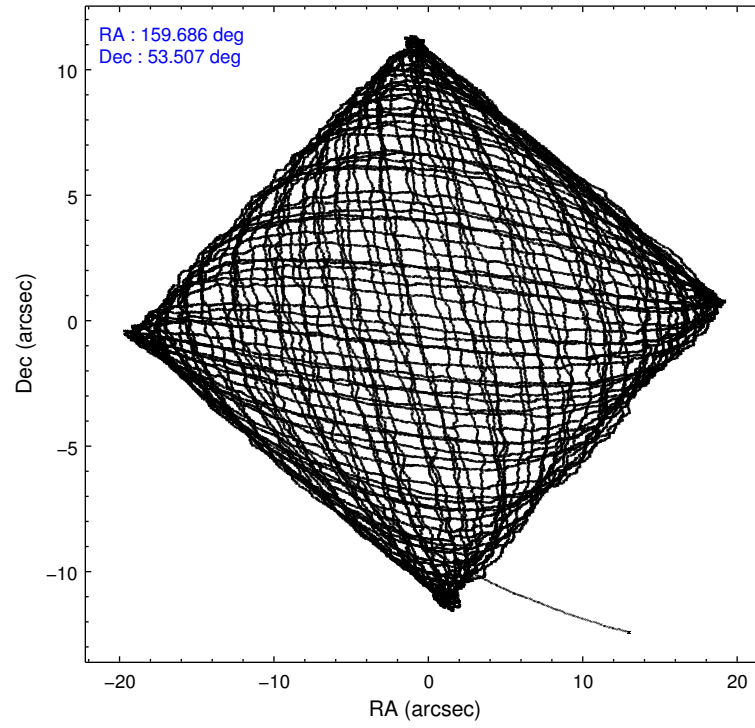
2.1.4 Events

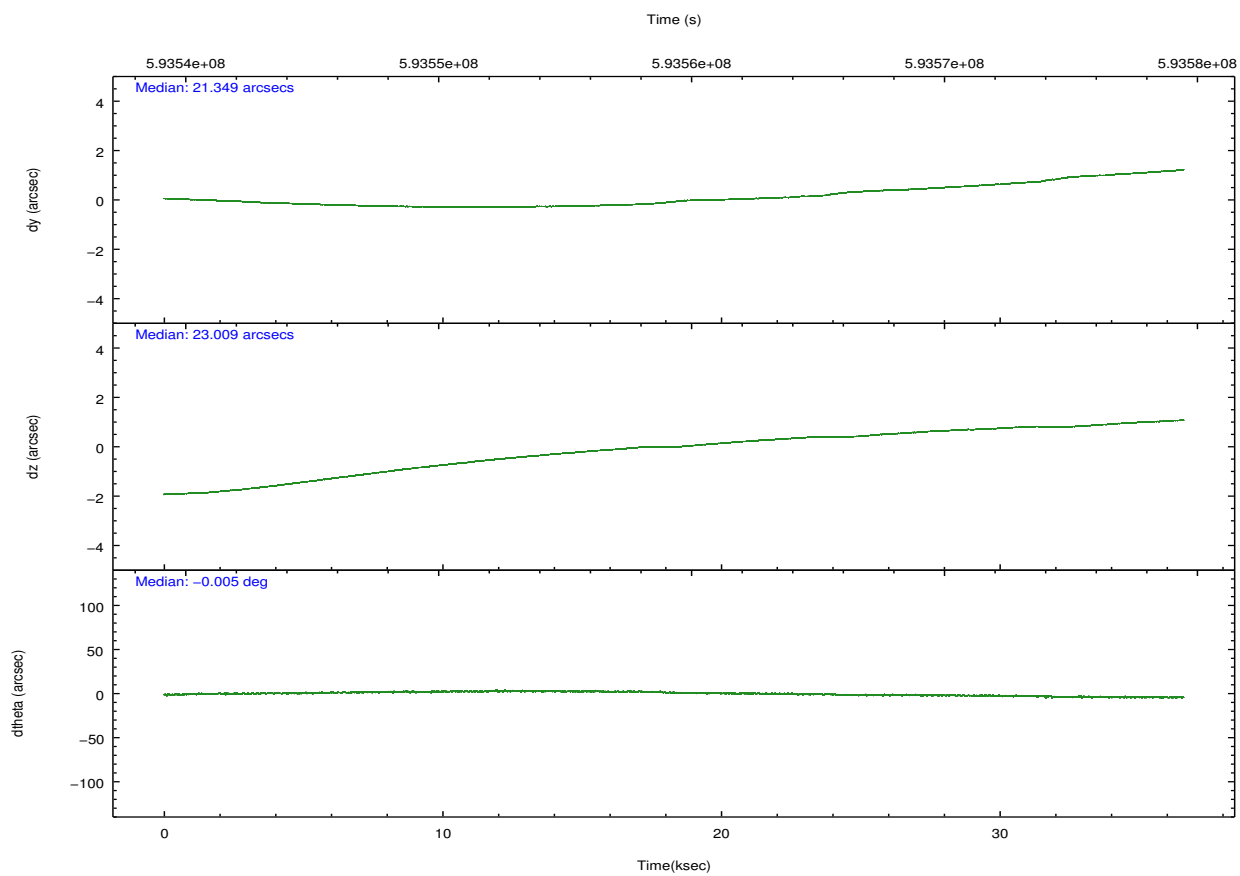
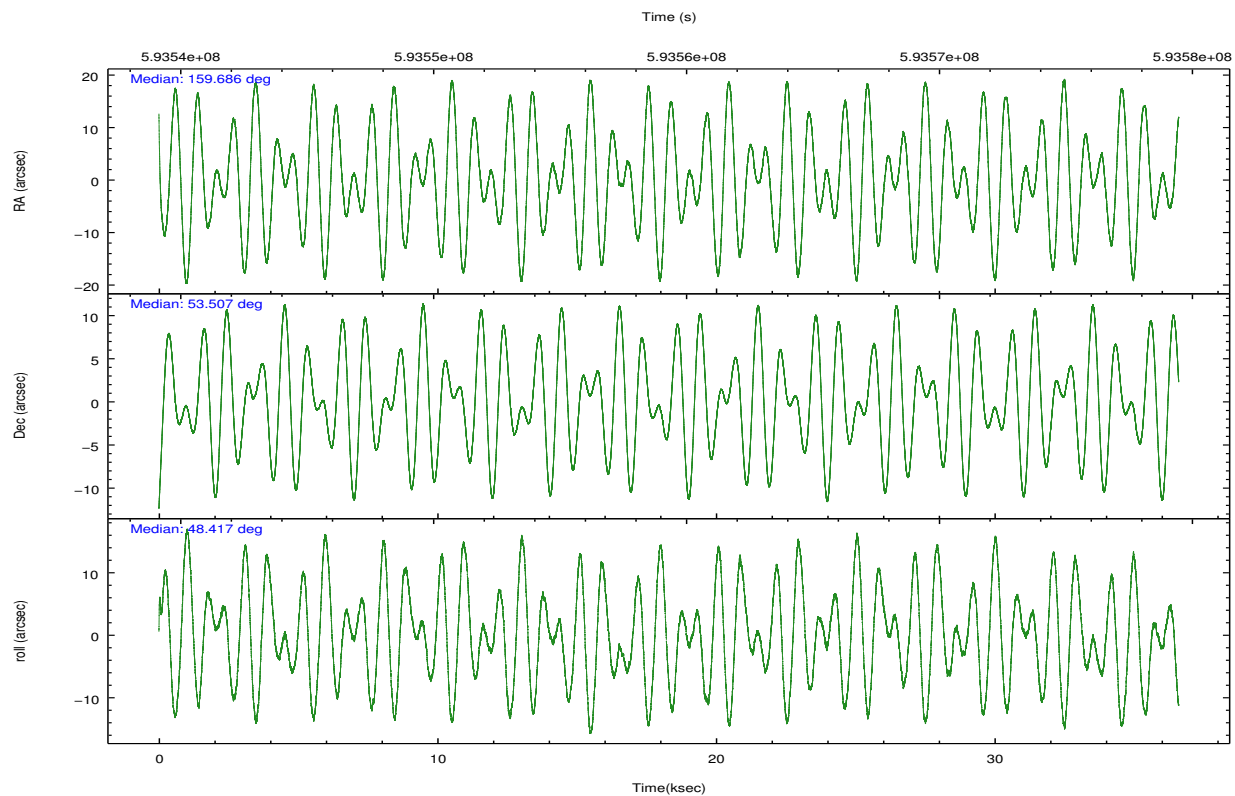
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	269972	250743	400043	257287	330222	336568	grade 0 events	9033	9129	15517	9244	13833	25114
rejected events	243592	225008	205405	228662	182526	248425		3%	3%	3%	3%	4%	7%
rejected %	90%	89%	51%	88%	55%	73%	grade 1 events	161	149	1470	118	444	270
								0%	0%	0%	0%	0%	0%
							grade 2 events	6667	5730	60615	6859	31547	21392
								2%	2%	15%	2%	9%	6%
							grade 3 events	2696	2734	6264	2819	11741	8946
								0%	1%	1%	1%	3%	2%
							grade 4 events	2652	2707	6359	2736	11770	8269
								0%	1%	1%	1%	3%	2%
							grade 5 events	9816	11833	28124	11707	31761	17732
								3%	4%	7%	4%	9%	5%
							grade 6 events	5333	5438	105906	6968	78813	24439
								1%	2%	26%	2%	23%	7%
							grade 7 events	233614	213023	175788	216836	150313	230406
								86%	84%	43%	84%	45%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	159.677010	159.6856716822133	CCD I2 on	O1	Y
[deg] Pointing Dec	53.480032	53.50700317223232	CCD I3 on	O2	Y
[deg] Pointing Roll	48.275309	48.42498082411794	CCD S0 on	N	N
[s] Window start time (MET)	593409668.184000	593409668.184000	CCD S1 on	Y	Y
[s] Window stop time (MET)	593604068.184000	593604068.184000	CCD S2 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S5 on	N	N
[mm] SIM translation stage offset	0	0.01005778216563158	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	593541209.184000	593540065.94998	On-chip summing requested	N	N
Observation start date	2016-10-22T16:32:21	2016-10-22T16:14:25	Subarray requested	NONE	NONE
[s] Observation end time (MET)	593577579.184000	593577802.86465	Alternating exposures requested	N	N
Observation end date	2016-10-23T02:38:31	2016-10-23T02:43:22	[s] Primary exposure time	0.000000	3.2
Read mode	TIMED	TIMED			

2.3 Aspect



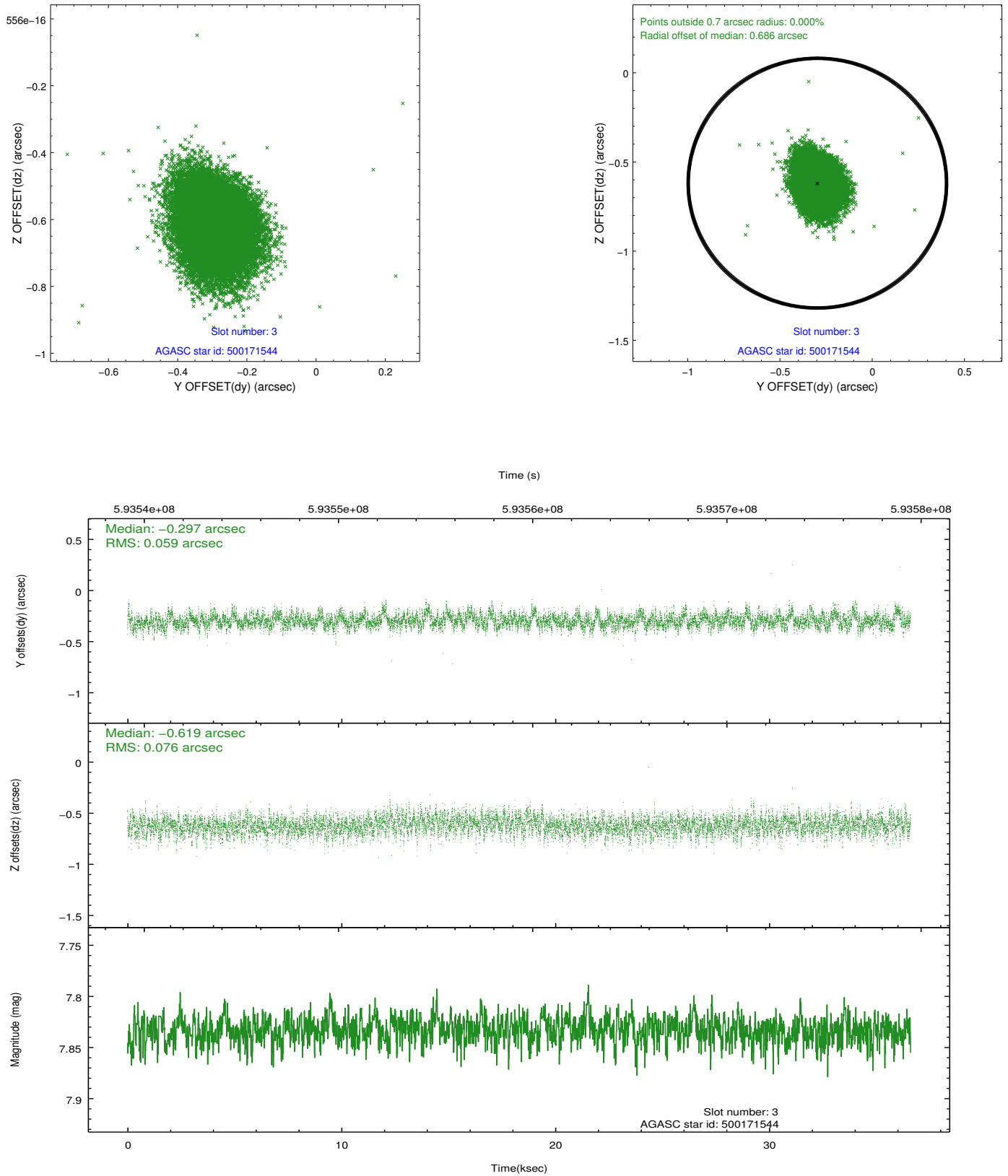


Slot Statistics

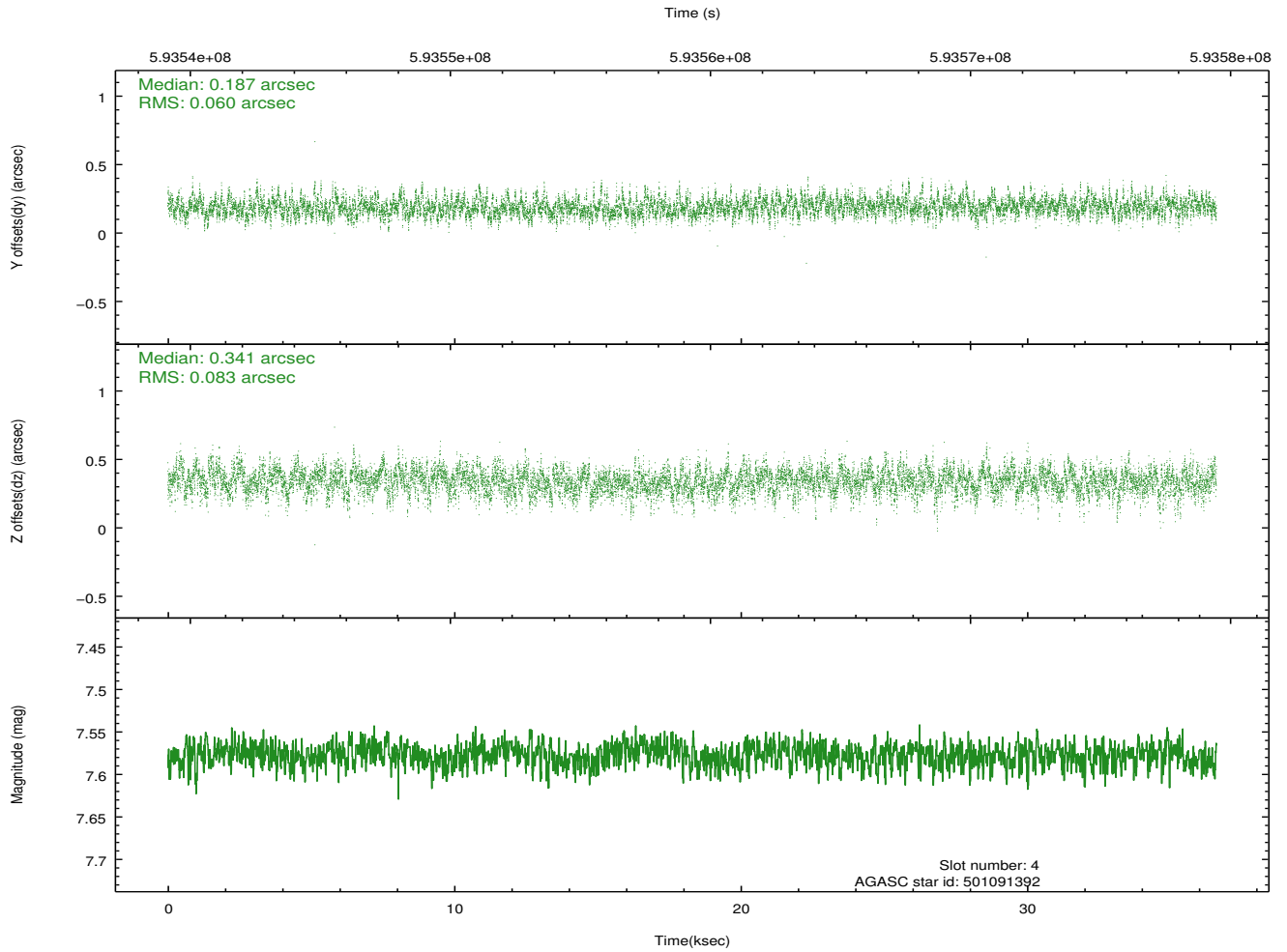
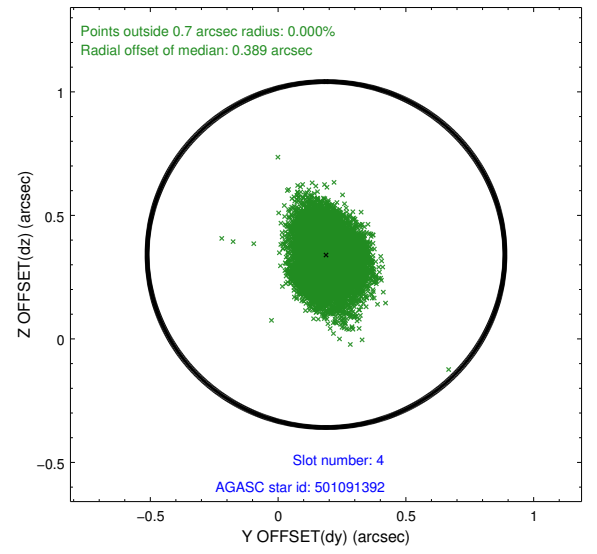
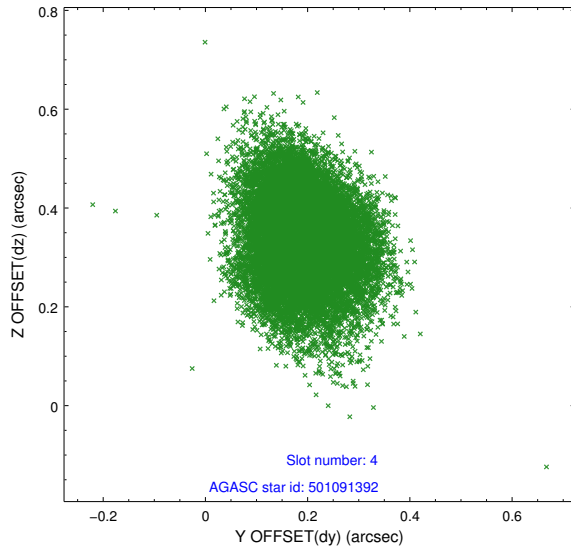
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.08	8927	-0.236	-0.152	0.026	0.040	0.000000	0.000000	-774.87	-1744.55
1	FID		ACIS-S-4	7.18	8927	0.504	0.154	0.011	0.020	0.000000	0.000000	2139.11	164.24
2	FID		ACIS-S-5	7.20	8927	-0.301	0.006	0.021	0.033	0.000000	0.000000	-1827.76	157.76
3	GUIDE	used	500171544	7.83	17848	-0.297	-0.619	0.101	0.168	158.880107	53.772629	-335.76	1972.46
4	GUIDE	used	501091392	7.58	17851	0.187	0.341	0.108	0.179	160.324146	52.970595	-430.42	-2262.29
5	GUIDE	used	501092928	7.76	17850	-0.196	-0.152	0.100	0.167	160.280177	53.627423	1257.28	-604.65
6	GUIDE	used	500171736	8.74	17846	0.105	-0.087	0.102	0.173	158.648618	53.141434	-2375.64	856.34
7	GUIDE	used	500170848	8.47	17846	0.195	0.519	0.100	0.160	159.567292	52.658084	-2367.37	-1789.93

2.4 Star Slots

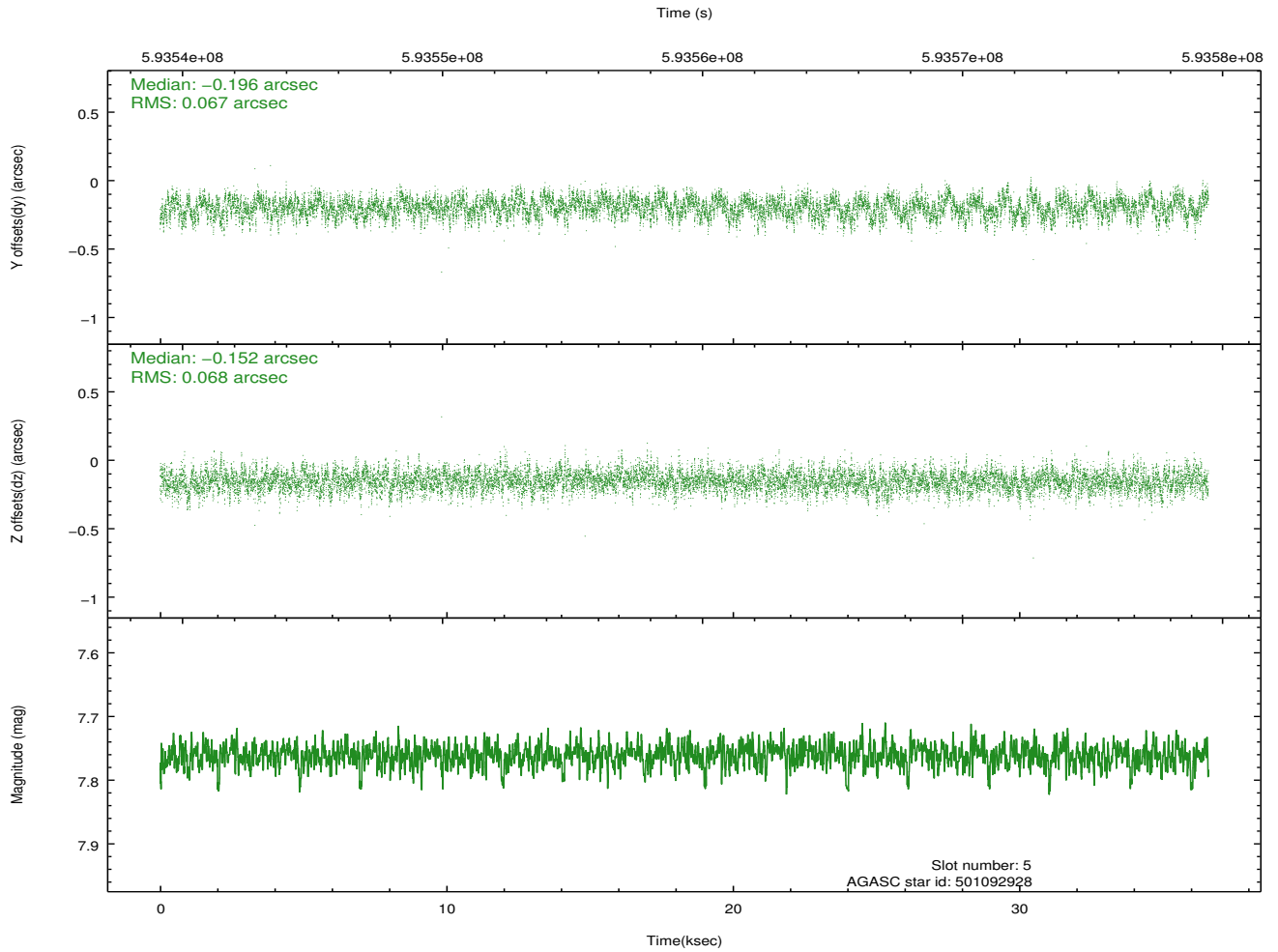
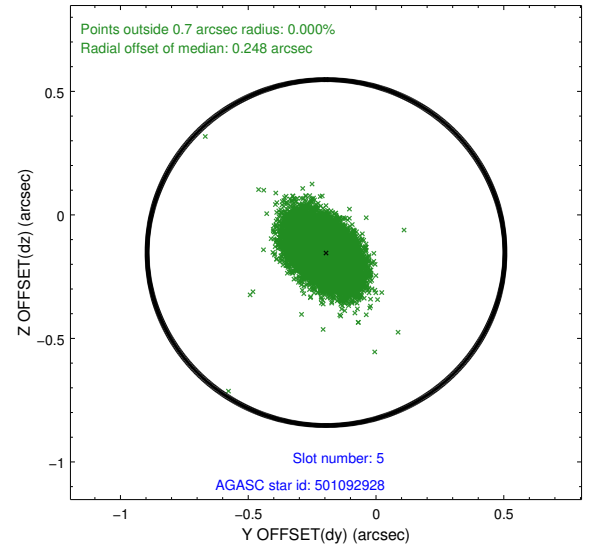
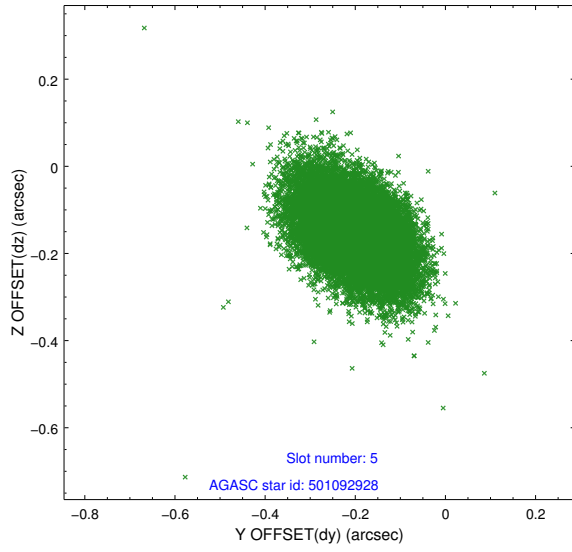
2.4.1 Slot 3



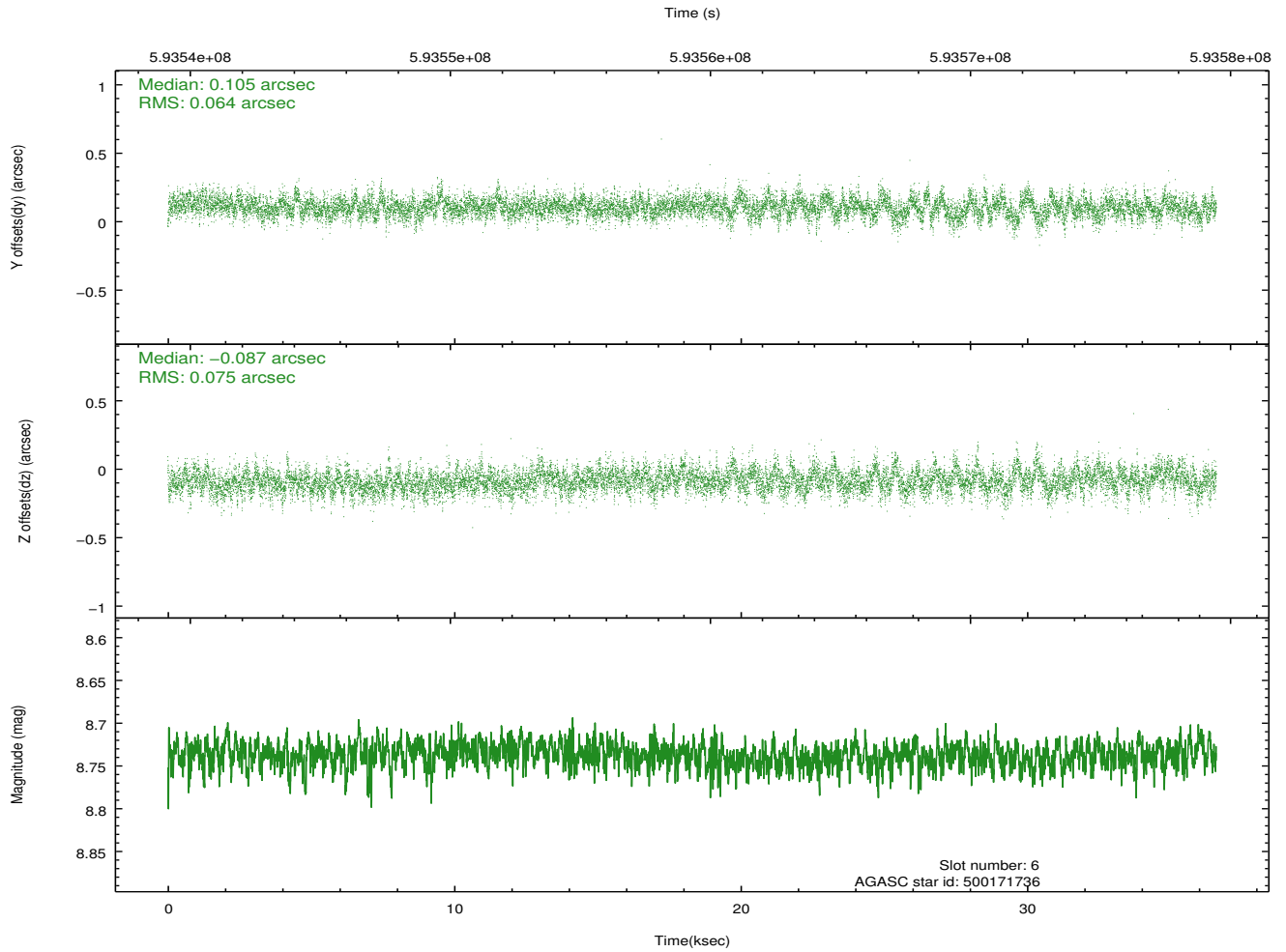
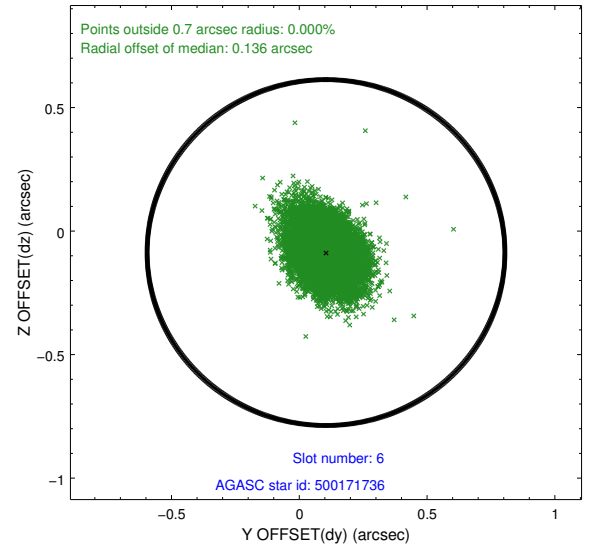
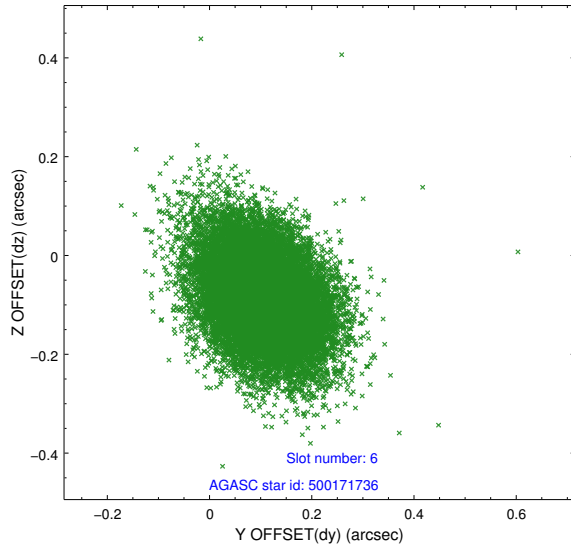
2.4.2 Slot 4



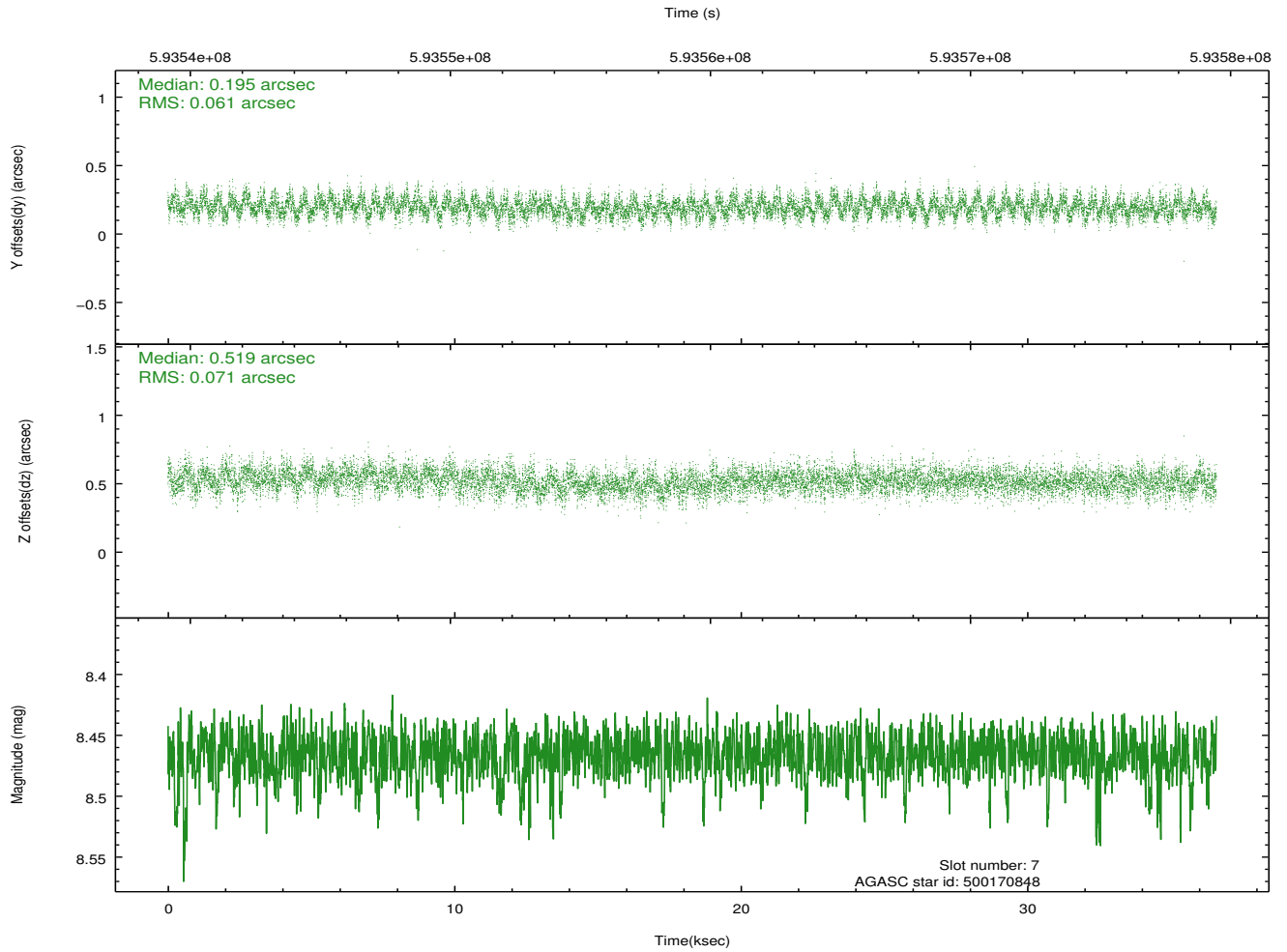
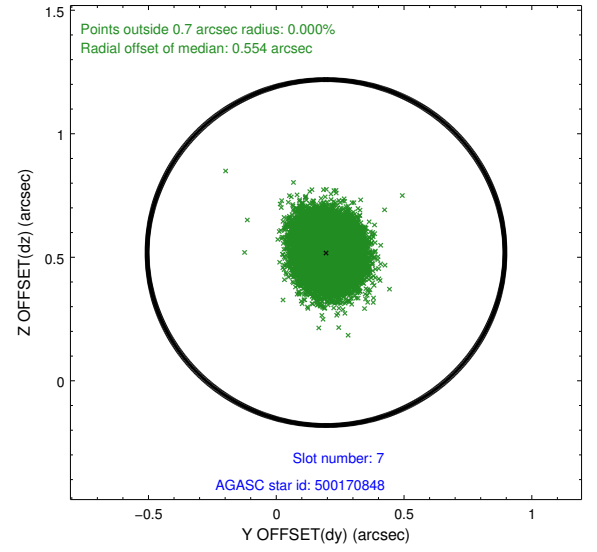
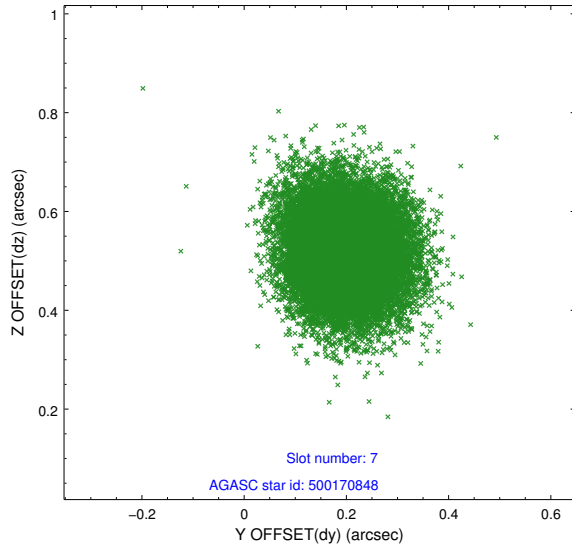
2.4.3 Slot 5



2.4.4 Slot 6

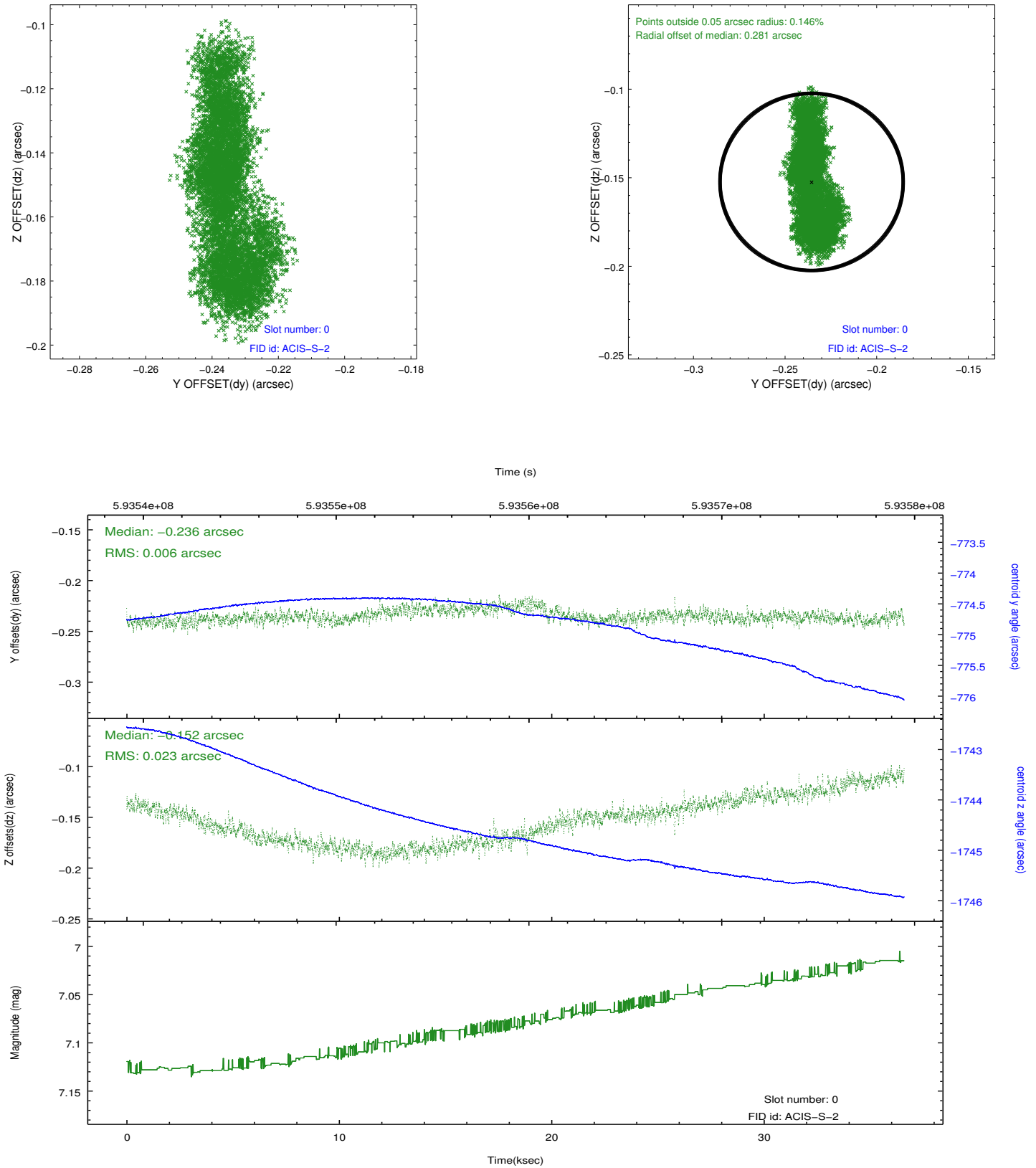


2.4.5 Slot 7

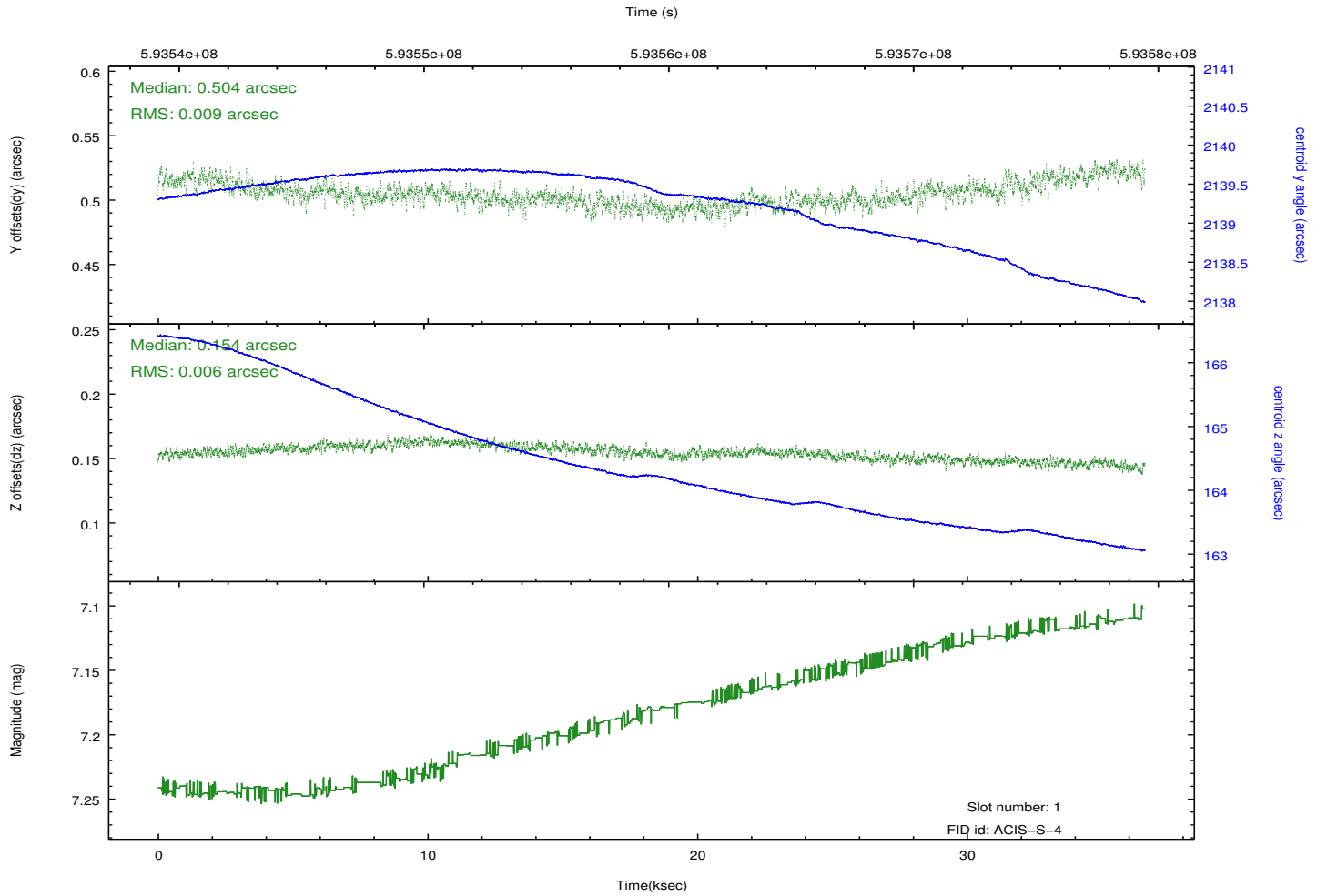
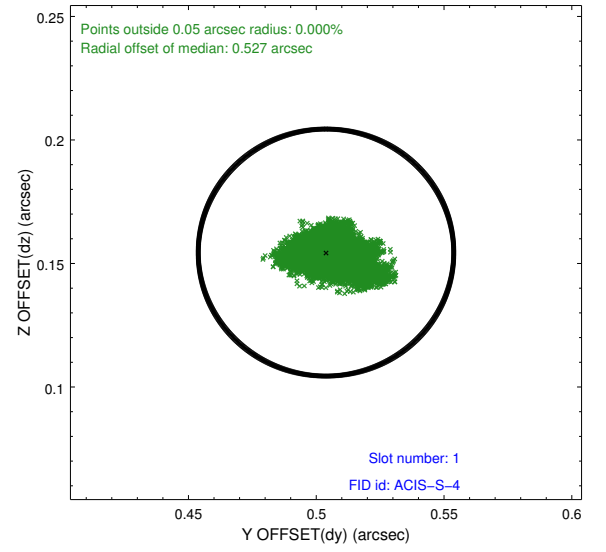
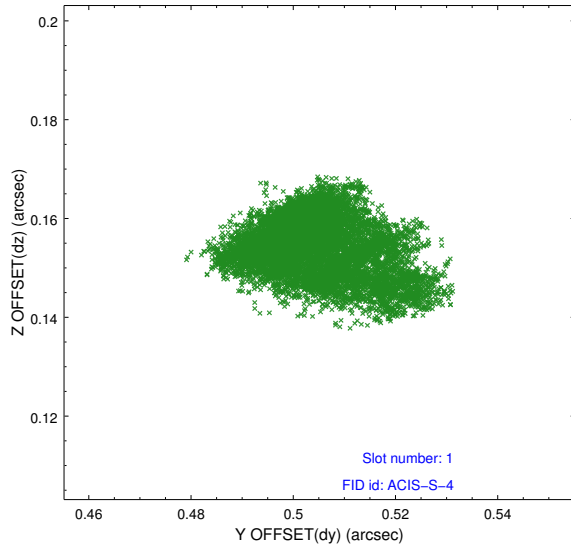


2.5 FID Slots

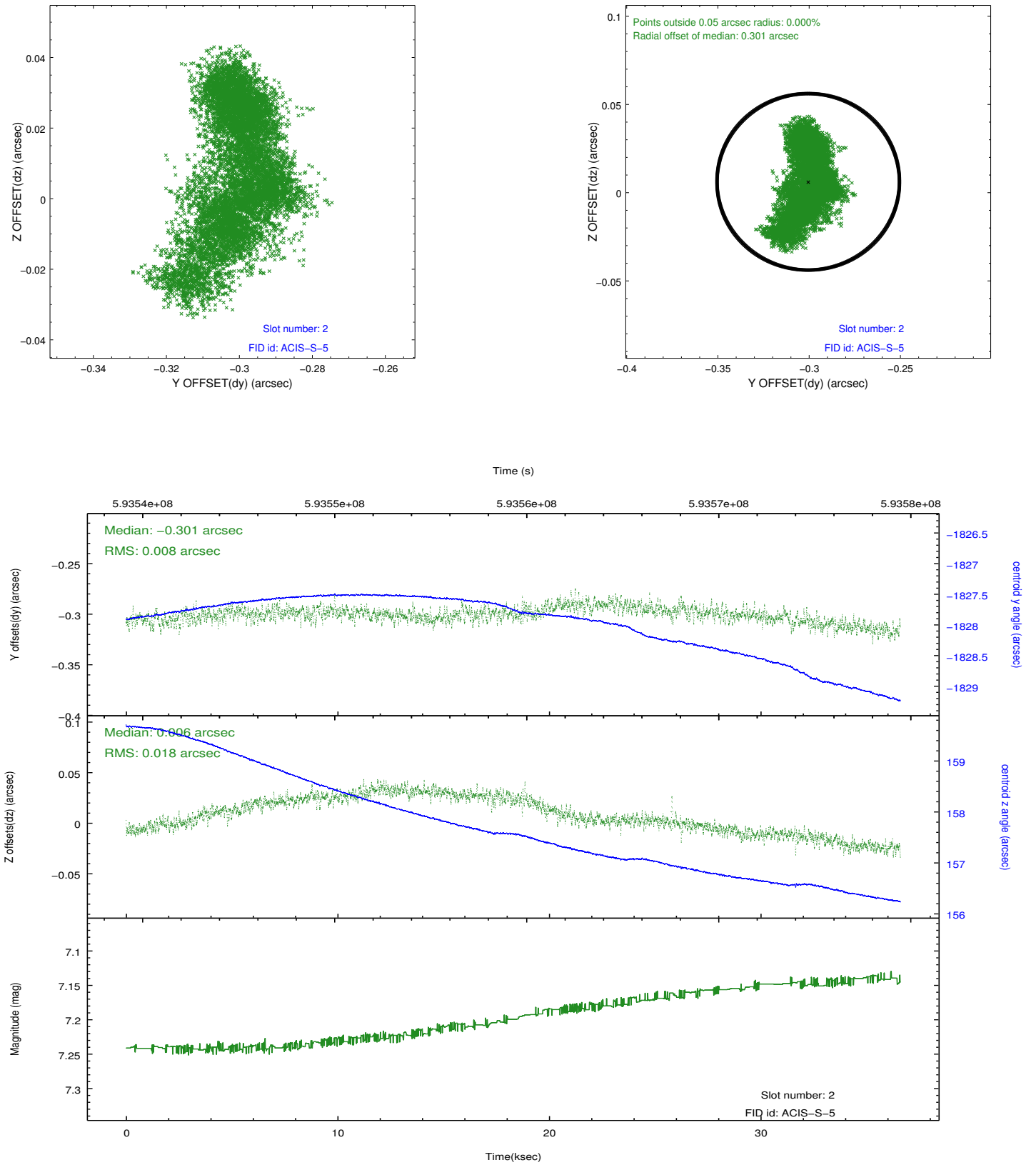
2.5.1 Slot 0



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)	2016.10.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.302609344482

A.2 Comments

Observation coordinated with EVN/e-MERLIN.
Window preference met.