

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13797 - L2 Version 2
Chandra X-Ray Center

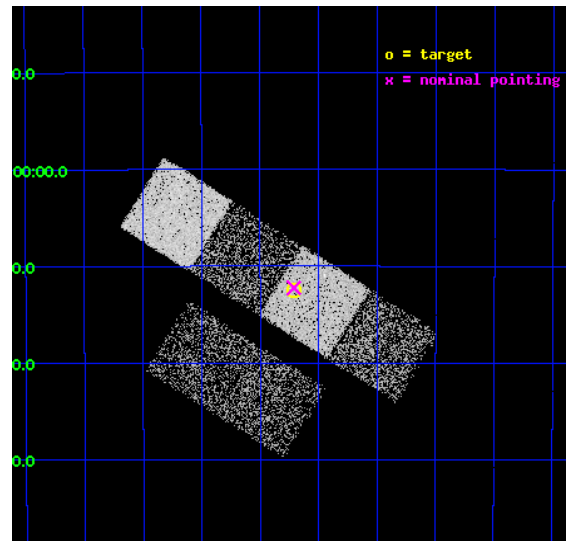
L2 Processing Date : Mar 22 2012

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1 Front

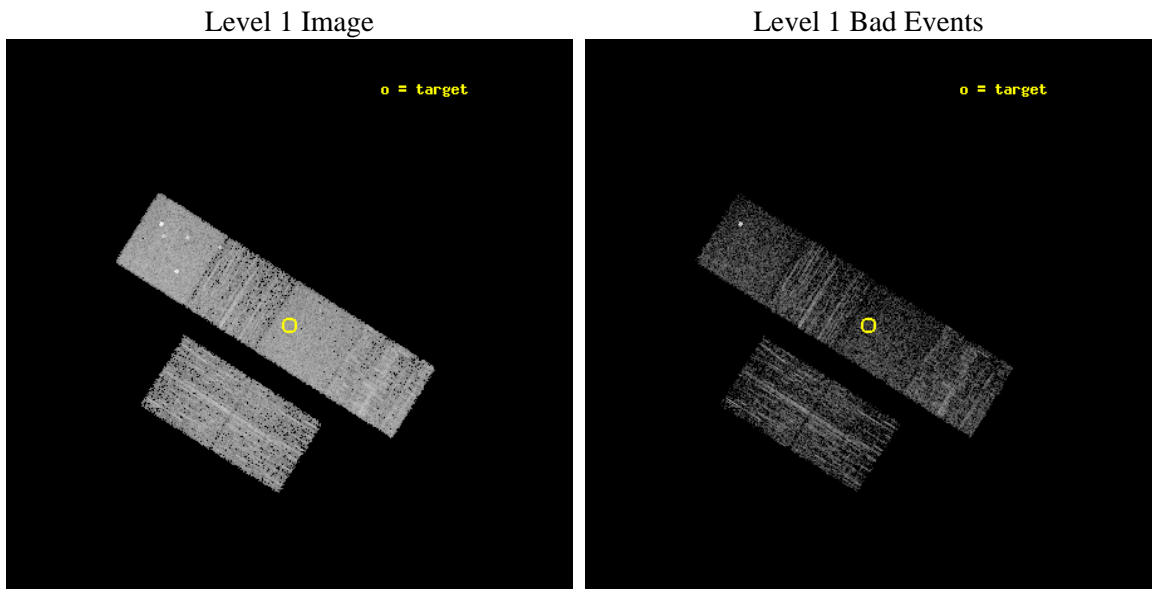
seq_num	501629	Sequence number
obs_id	13797	Observation id
title	A CASE OF MISTAKEN IDENTITY: DISRUPTED RECYCLED PULSARS OR ORPHANED ANTI-MAGNETARS?	Proposal title
observer	Prof. Dr. Bruce Allen	Principal investigator
object	PSR J1320-3512	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	200.052917	Observer's specified target RA [deg]
dec_targ	-35.207222	Observer's specified target Dec [deg]
ra_nom	200.05283006288	Nominal RA [deg]
dec_nom	-35.20405555009	Nominal Dec [deg]
roll_nom	32.133693418247	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3465.5999871492	Sum of GTIs [s]
livetime	3421.7164733782	Livetime [s]
ontime2	3465.5999871492	Sum of GTIs [s]
ontime3	3465.5999871492	Sum of GTIs [s]
ontime5	3465.5999871492	Sum of GTIs [s]
ontime6	3465.5999871492	Sum of GTIs [s]
ontime7	3465.5999871492	Sum of GTIs [s]
ontime8	3465.5999871492	Sum of GTIs [s]
l2events	32719	Number of level 2 events



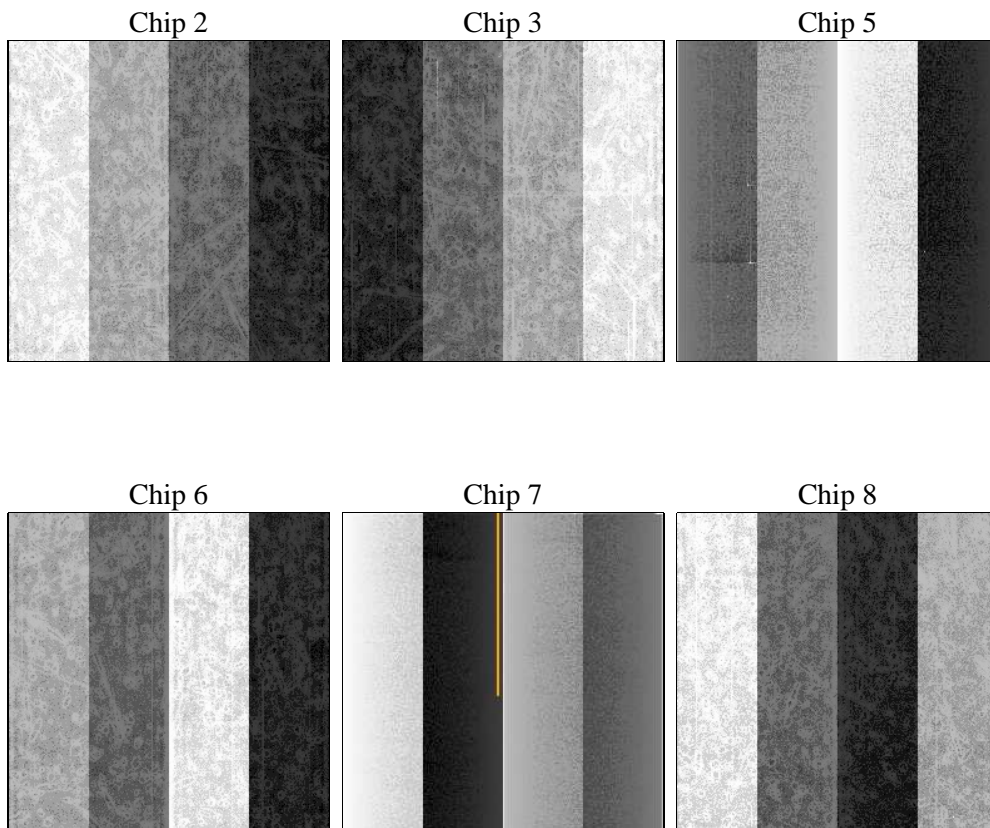
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	3465.5999871492	Sum of GTIs [s]
caldsver	4.4.8	 	ontime2	3465.5999871492	Sum of GTIs [s]
date	2012-03-22T18:05:00	Date and time of file creation	ontime3	3465.5999871492	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	3465.5999871492	Sum of GTIs [s]
			ontime6	3465.5999871492	Sum of GTIs [s]
			ontime7	3465.5999871492	Sum of GTIs [s]
			ontime8	3465.5999871492	Sum of GTIs [s]
			l1events	142648	Number of level 1 events

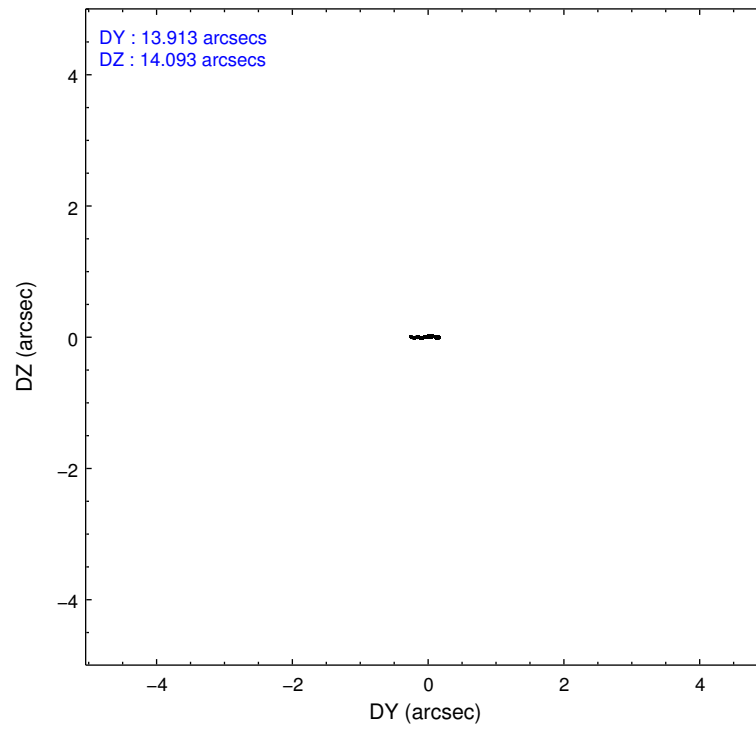
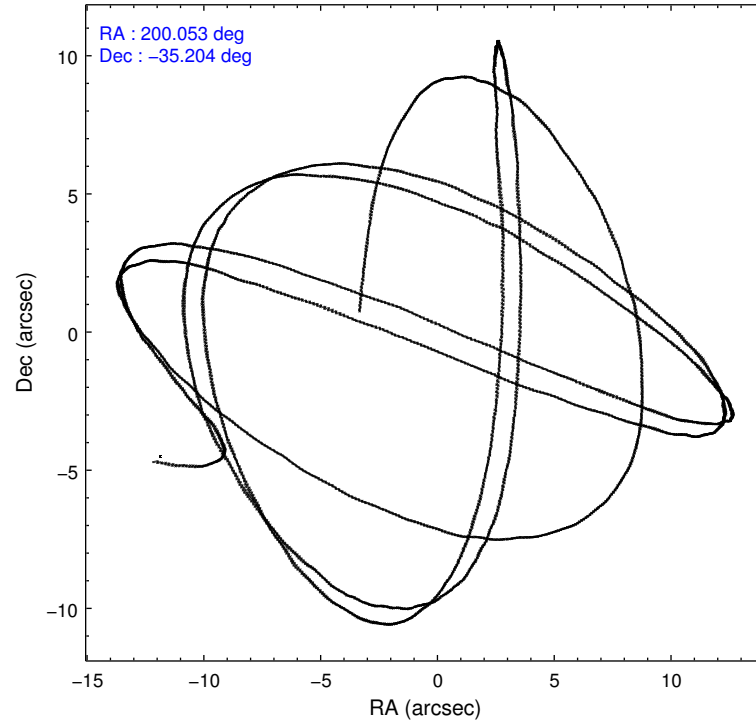
2.1.4 Events

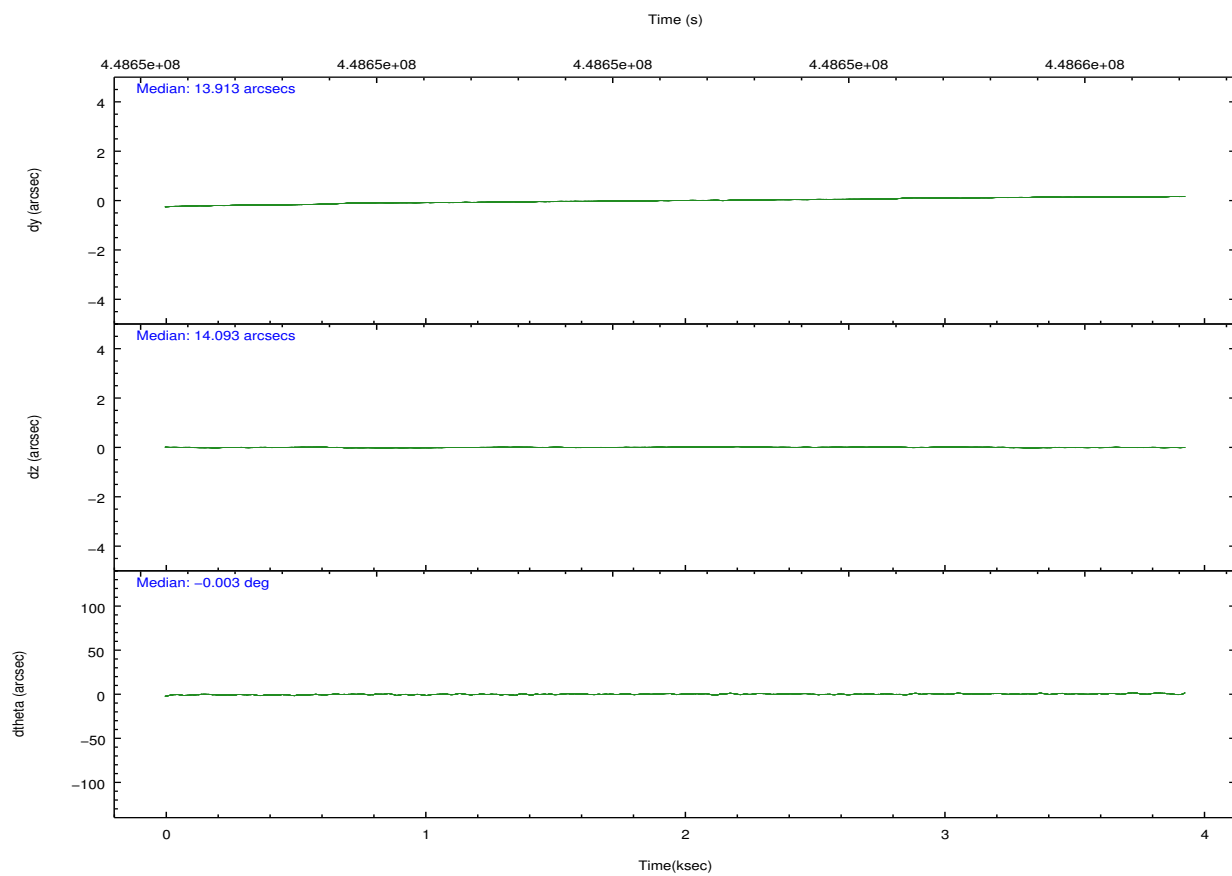
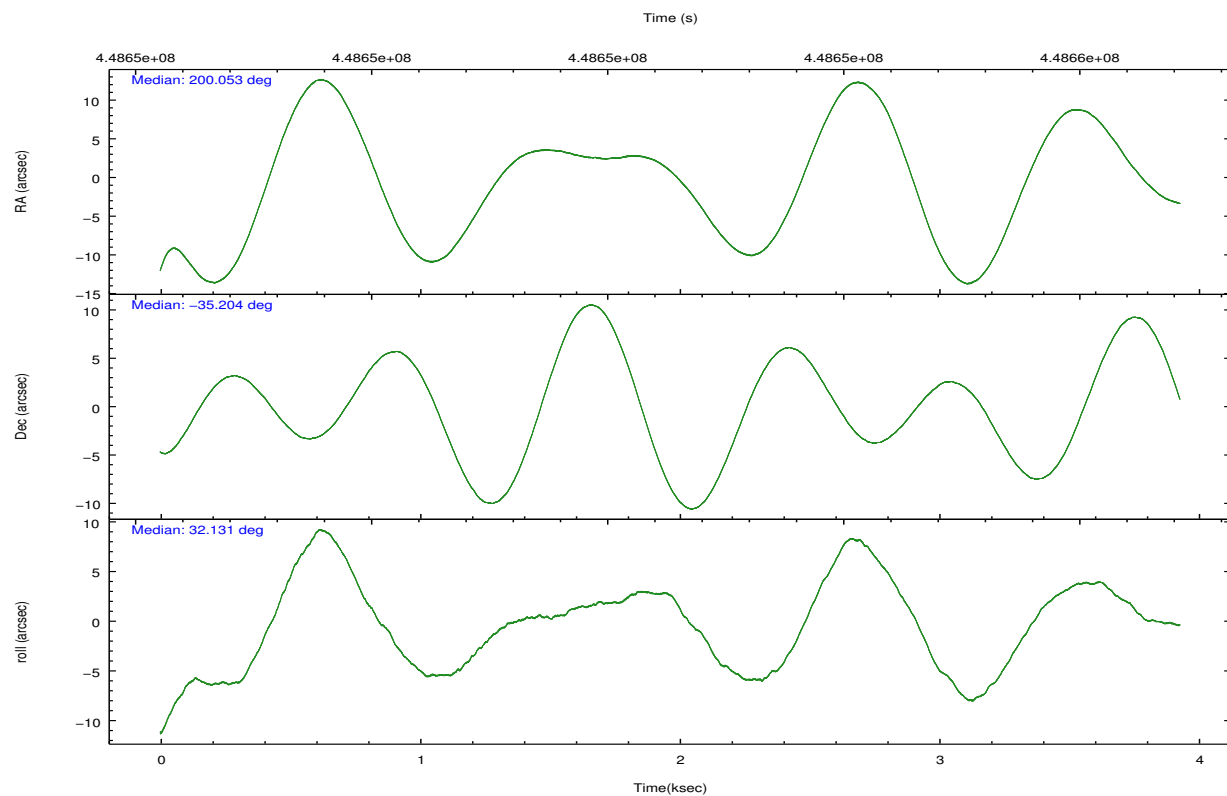
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	19759	18991	32388	20546	24727	26237	grade 0 events	812	701	2524	826	1050	1950
rejected events	17620	16930	16098	18193	13734	19624		4%	3%	7%	4%	4%	7%
rejected %	89%	89%	49%	88%	55%	74%	grade 1 events	16	11	58	17	38	19
								0%	0%	0%	0%	0%	0%
							grade 2 events	519	478	4892	521	2307	1619
								2%	2%	15%	2%	9%	6%
							grade 3 events	191	237	546	250	960	620
								0%	1%	1%	1%	3%	2%
							grade 4 events	220	226	512	217	938	556
								1%	1%	1%	1%	3%	2%
							grade 5 events	783	950	2370	925	2619	1470
								3%	5%	7%	4%	10%	5%
							grade 6 events	402	425	7829	539	5751	1875
								2%	2%	24%	2%	23%	7%
							grade 7 events	16816	15963	13657	17251	11064	18128
								85%	84%	42%	83%	44%	69%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	200.037708	200.0528300628799	CCD I2 on	O1	Y
[deg] Pointing Dec	-35.228544	-35.20405555008972	CCD I3 on	O2	Y
[deg] Pointing Roll	31.968354	32.13369341824713	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	Y	Y
[s] Observation start time (MET)	448651722.184000	448650490.33538	CCD S5 on	N	N
Observation start date	2012-03-20T17:27:36	2012-03-20T17:08:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	448655222.184000	448656421.4982	On-chip summing requested	N	N
Observation end date	2012-03-20T18:25:56	2012-03-20T18:47:01	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



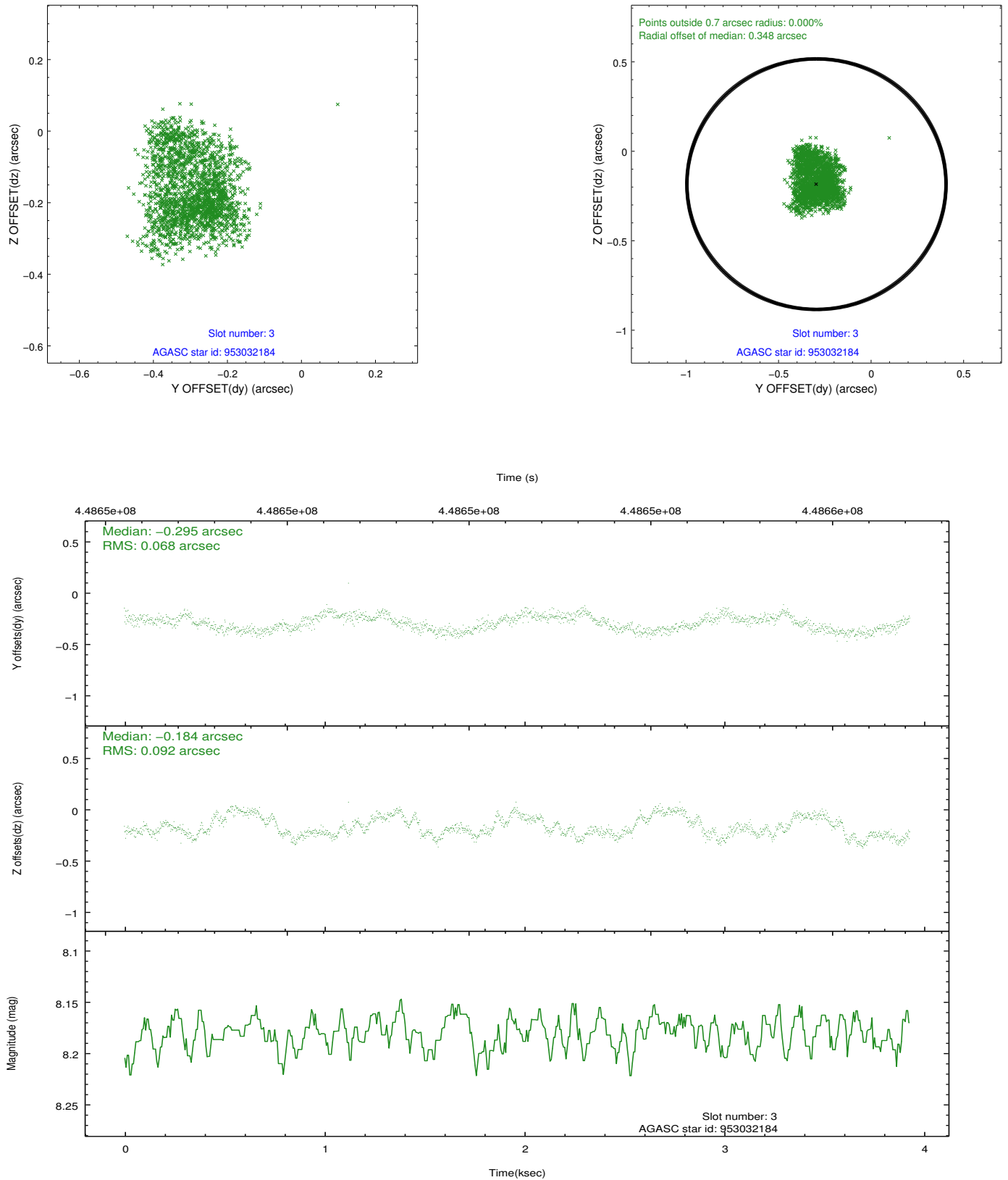


Slot Statistics

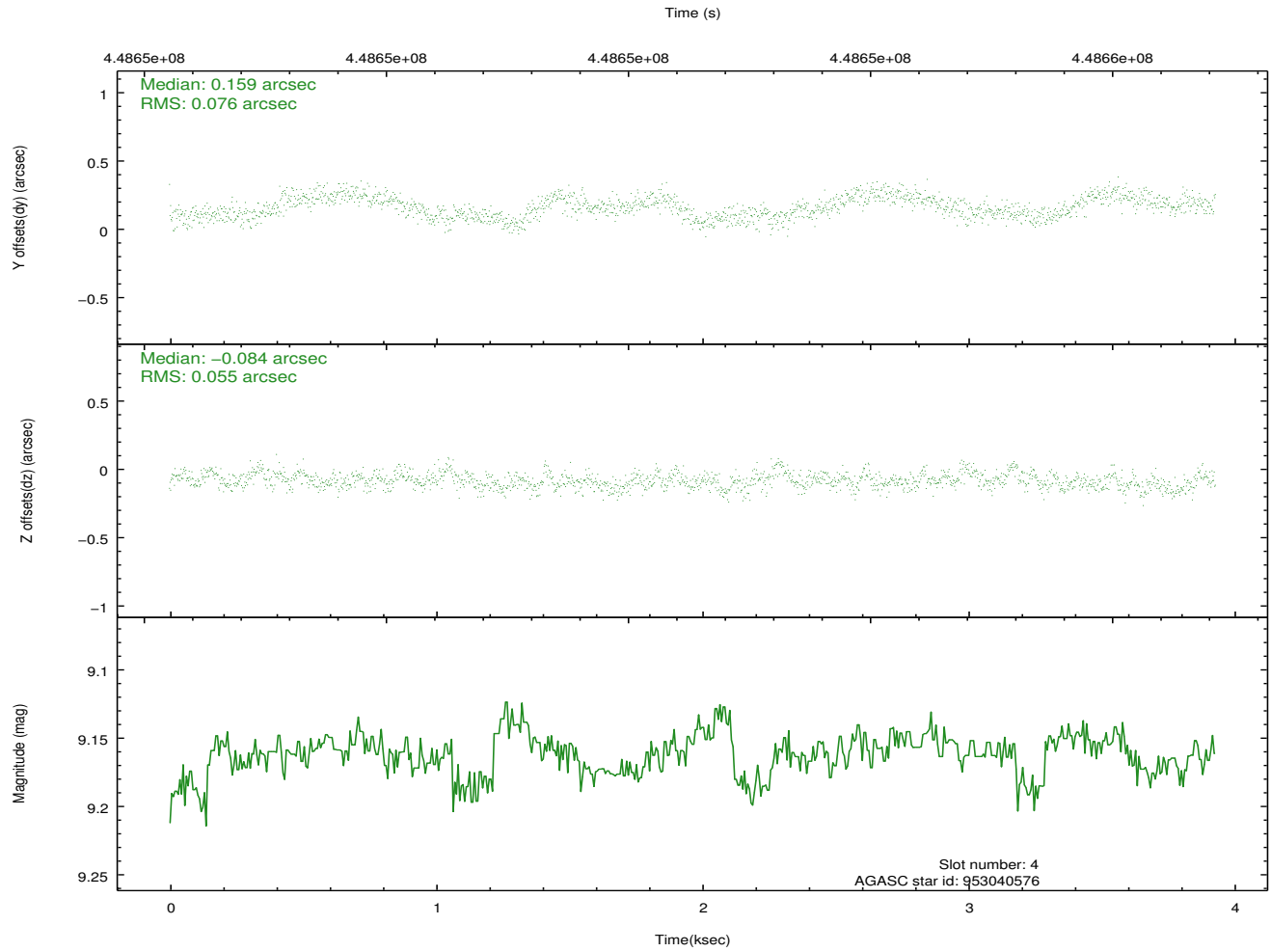
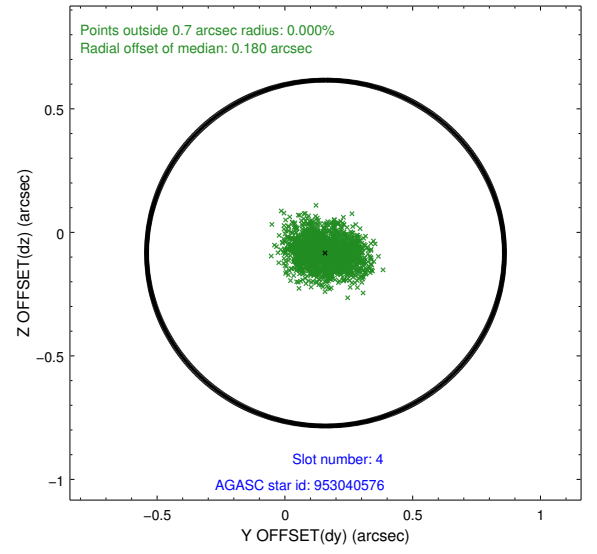
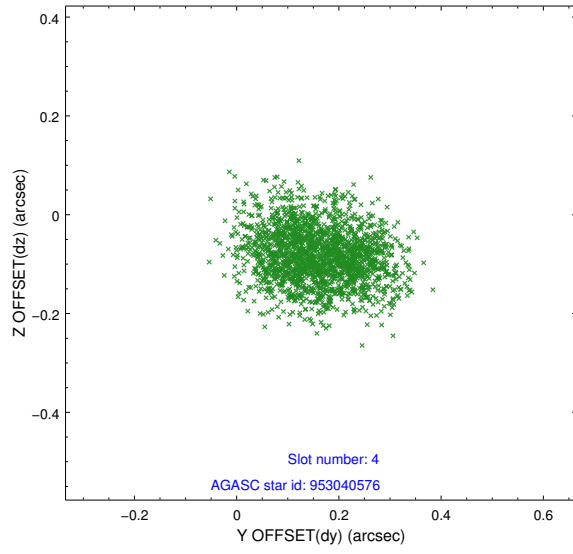
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.96	959	-0.138	-0.091	0.007	0.012	0.000000	0.000000	-767.02	-1735.42
1	FID	ACIS-S-4	7.05	959	0.174	0.065	0.007	0.012	0.000000	0.000000	2145.88	171.51
2	FID	ACIS-S-6	7.18	959	-0.064	0.034	0.008	0.017	0.000000	0.000000	397.13	810.72
3	GUIDE	953032184	8.18	1918	-0.295	-0.184	0.125	0.188	200.021071	-34.579517	1194.91	2007.69
4	GUIDE	953040576	9.16	1918	0.159	-0.084	0.101	0.163	199.376552	-35.318687	-1821.77	747.91
5	GUIDE	953164032	8.07	1917	-0.030	-0.268	0.072	0.118	200.421823	-34.897056	1592.09	409.79
6	GUIDE	953552864	9.51	1916	-0.007	0.311	0.132	0.214	200.174133	-35.853002	-851.52	-2118.06
7	GUIDE	953683160	9.74	1912	0.172	0.201	0.145	0.241	200.303232	-35.753073	-342.15	-2014.89

2.4 Star Slots

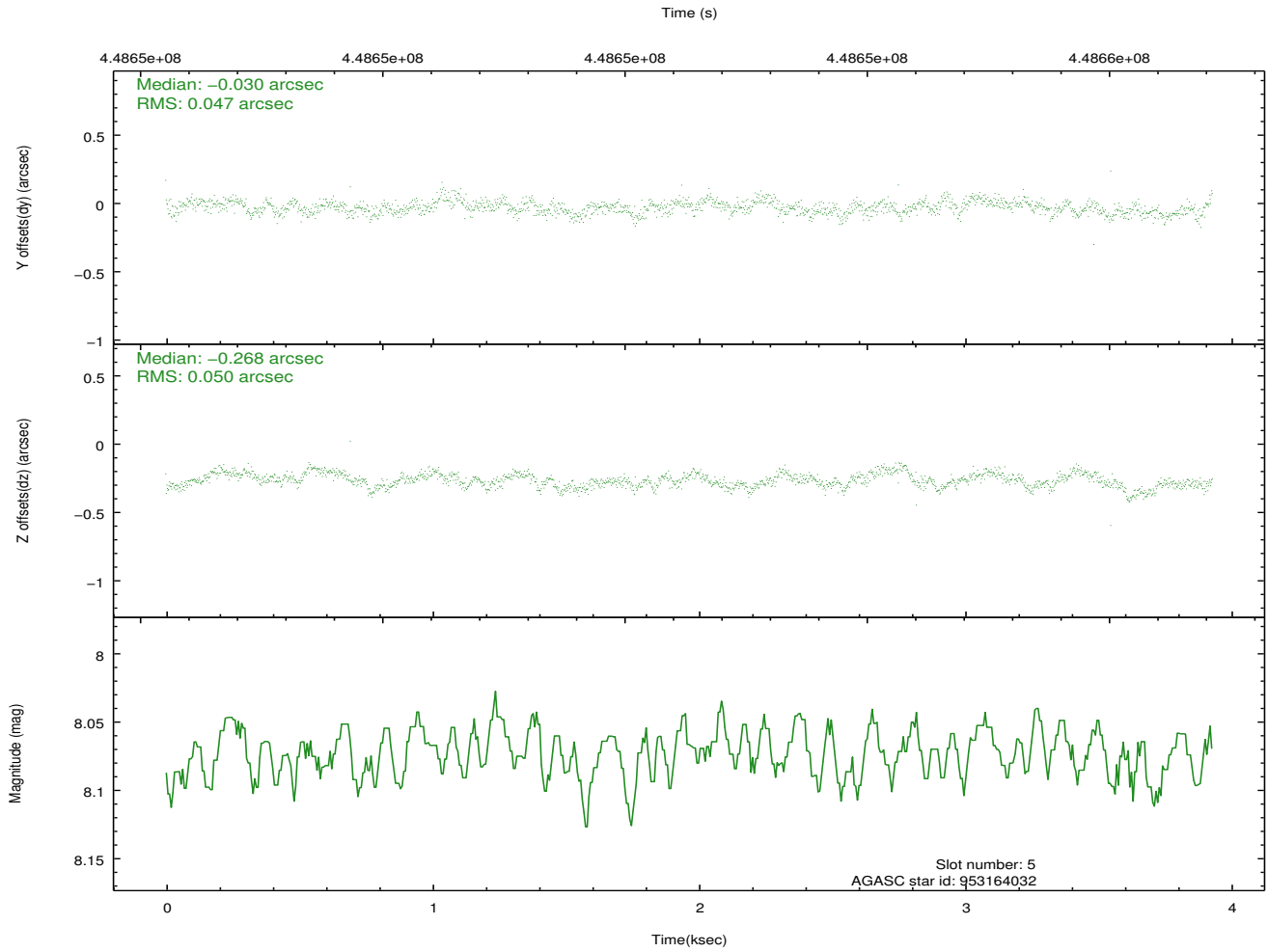
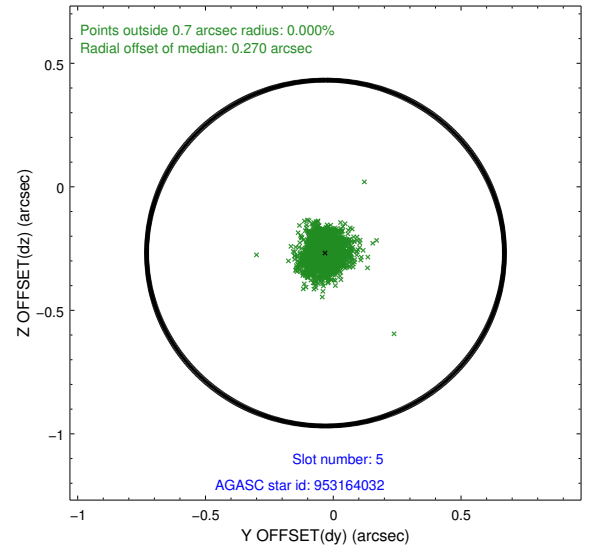
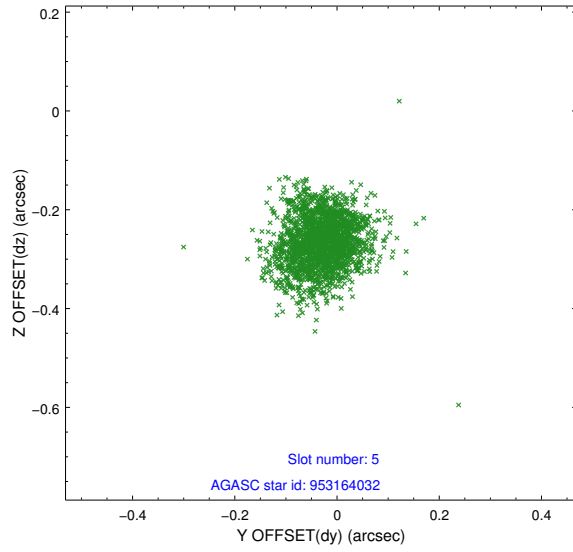
2.4.1 Slot 3



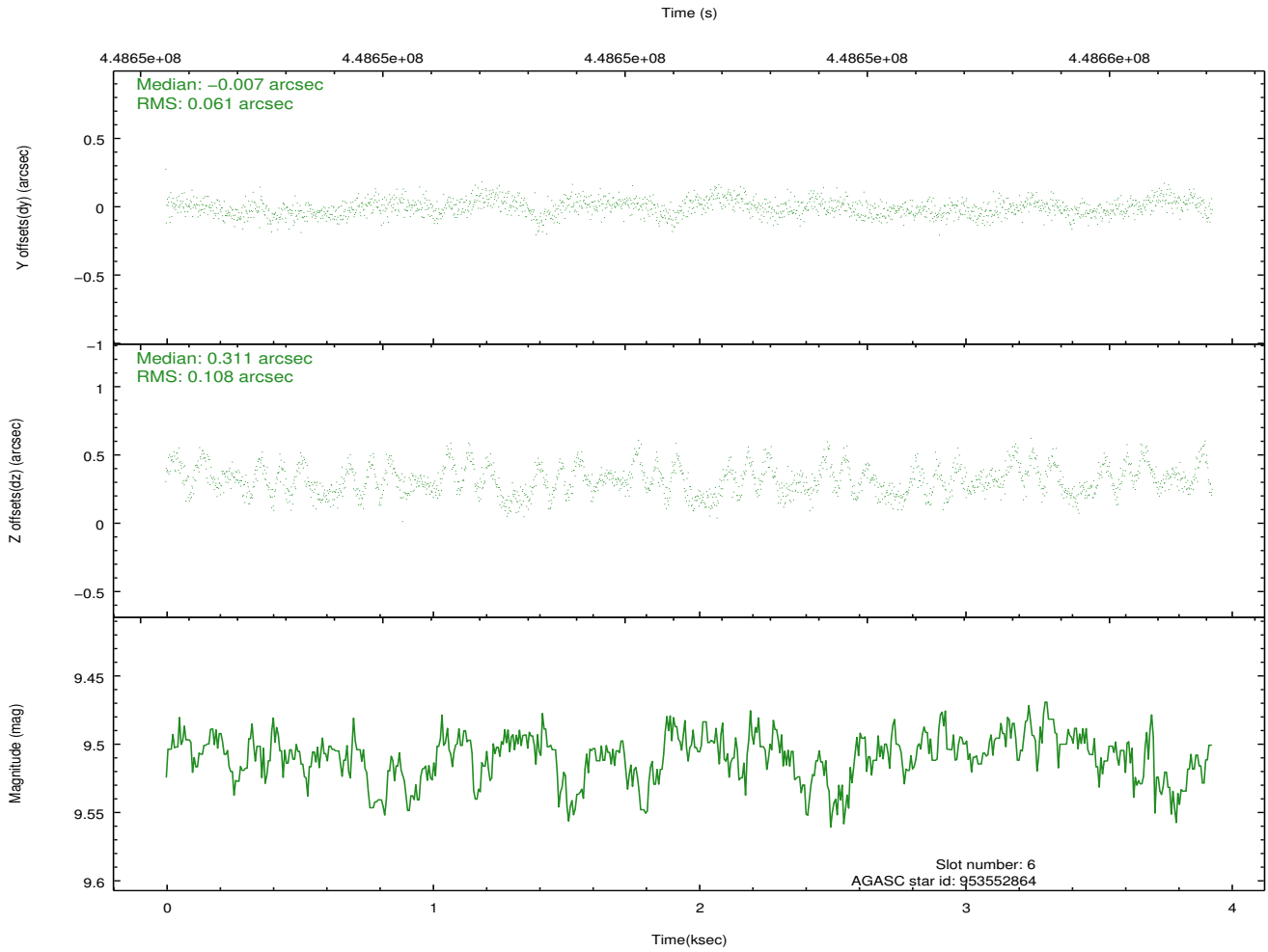
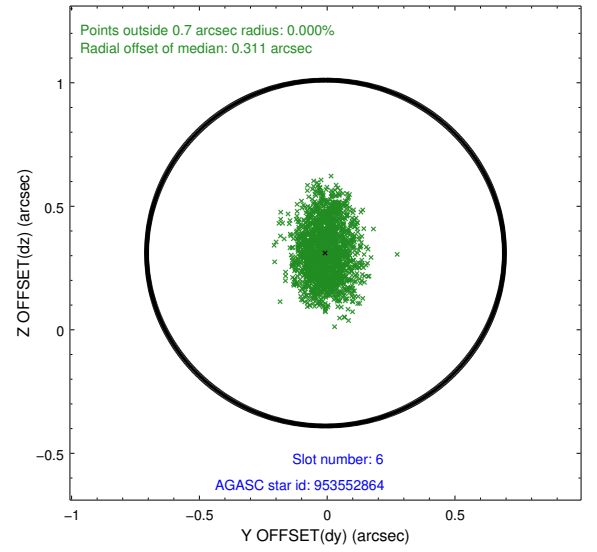
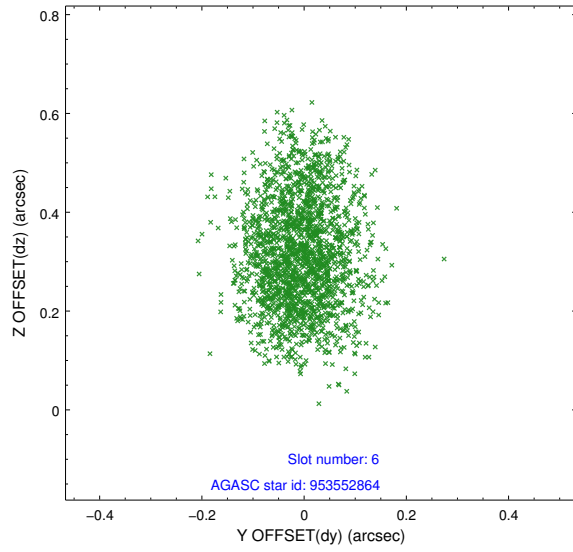
2.4.2 Slot 4



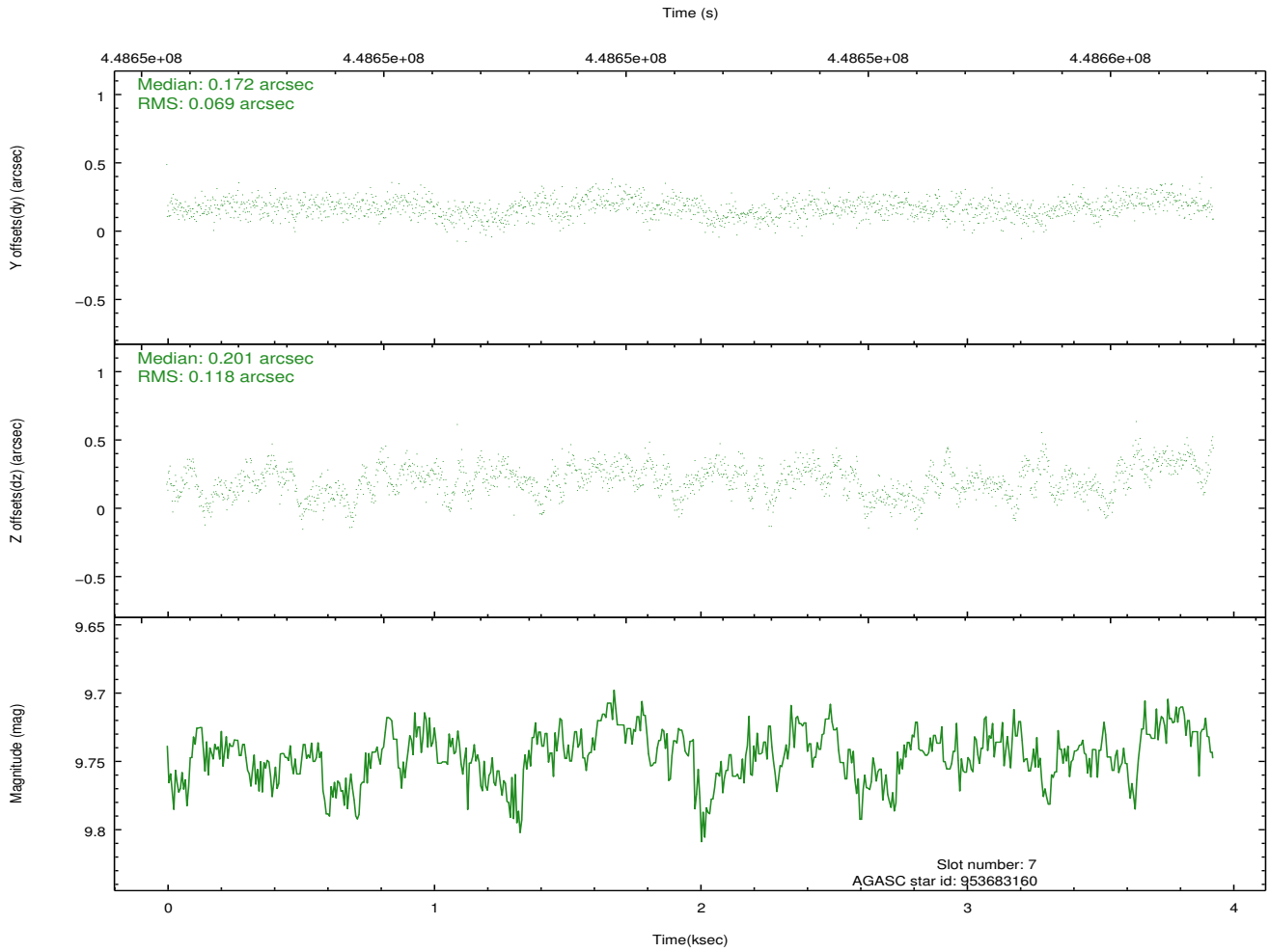
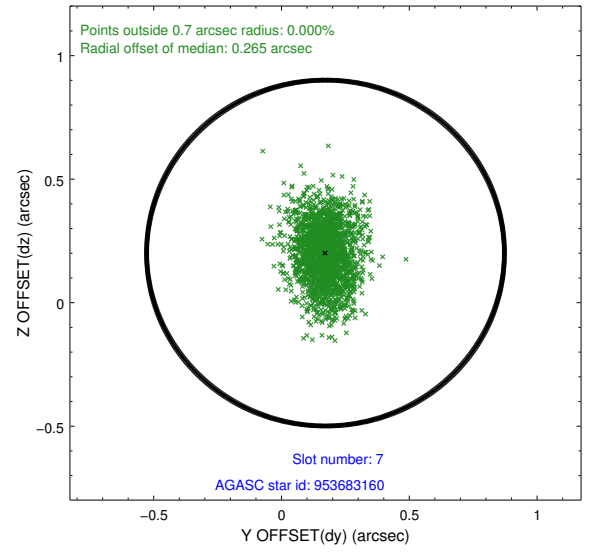
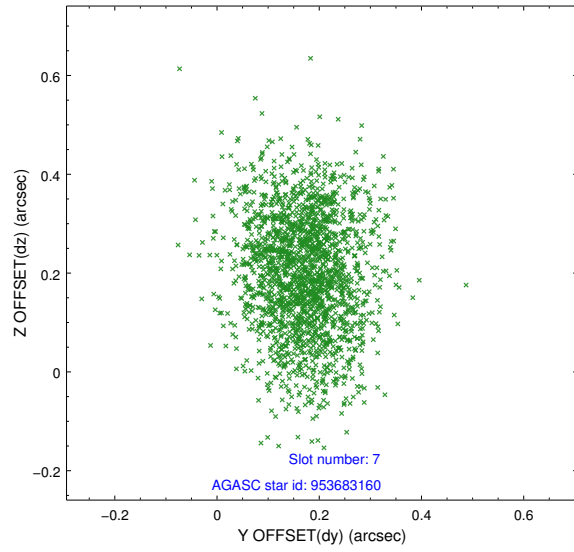
2.4.3 Slot 5



2.4.4 Slot 6

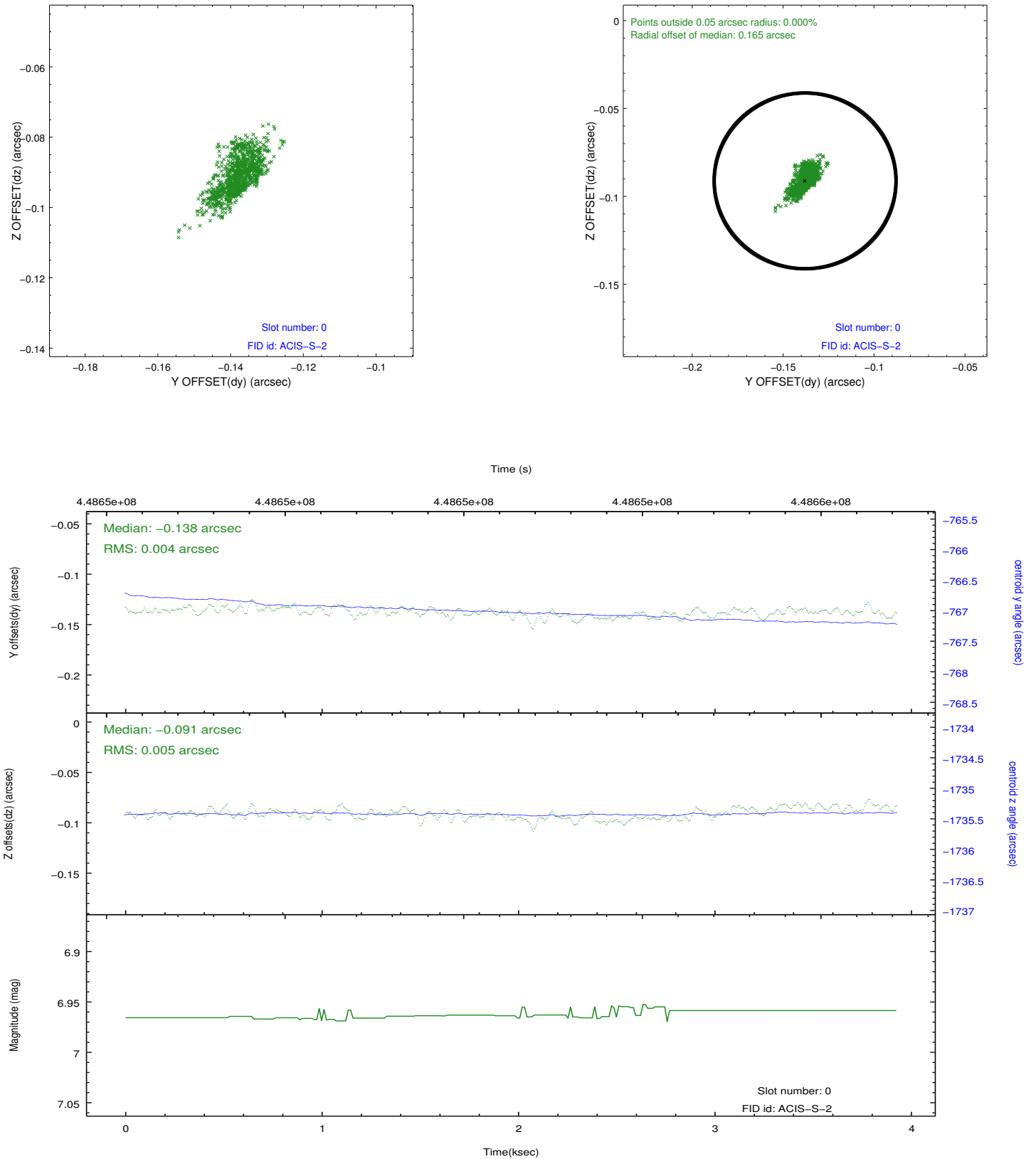


2.4.5 Slot 7

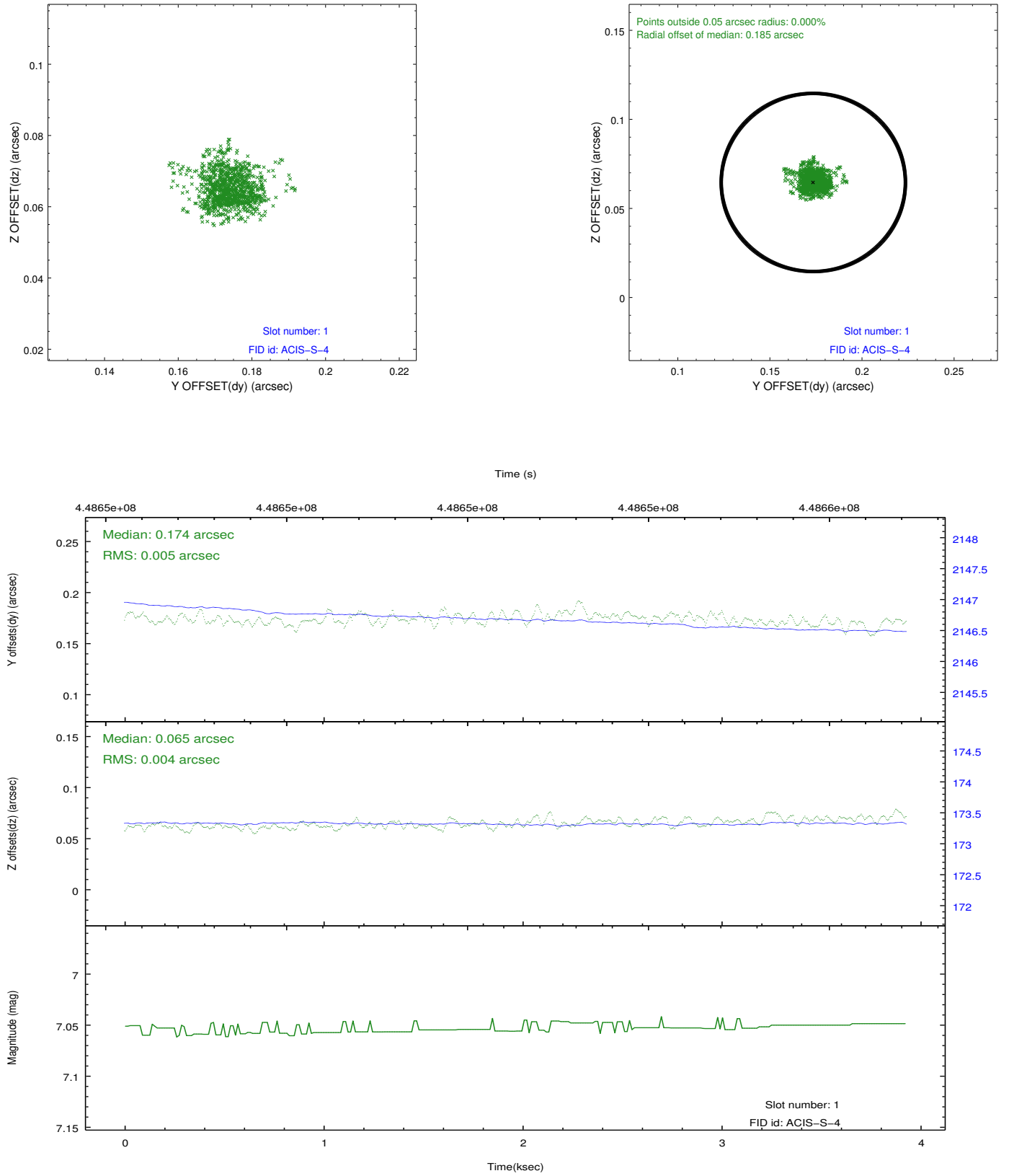


2.5 FID Slots

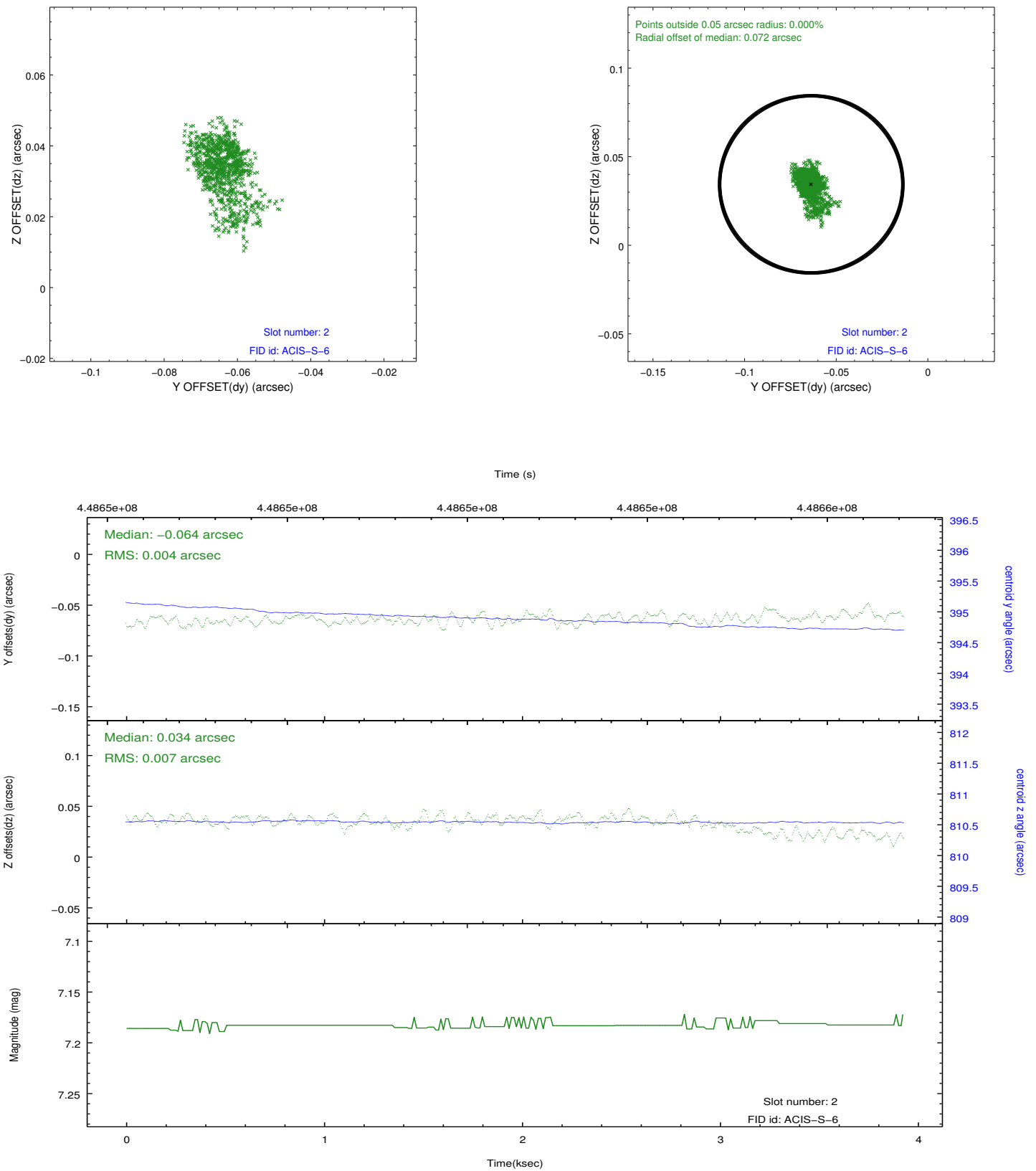
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.03.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.4655999871492

A.2 Comments

A spatial region of the original bias map for CCD = 6 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~ 20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 6 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:
(200.05811, -35.12042), (200.04908, -35.12507), (200.14013, -35.24321), (200.14917, -35.23855)