

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 15973 - L2 Version 2
Chandra X-Ray Center

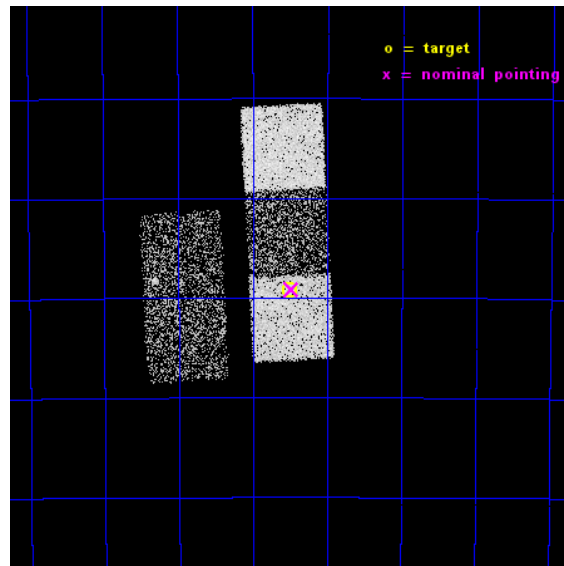
L2 Processing Date : Dec 9 2014

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1 Front

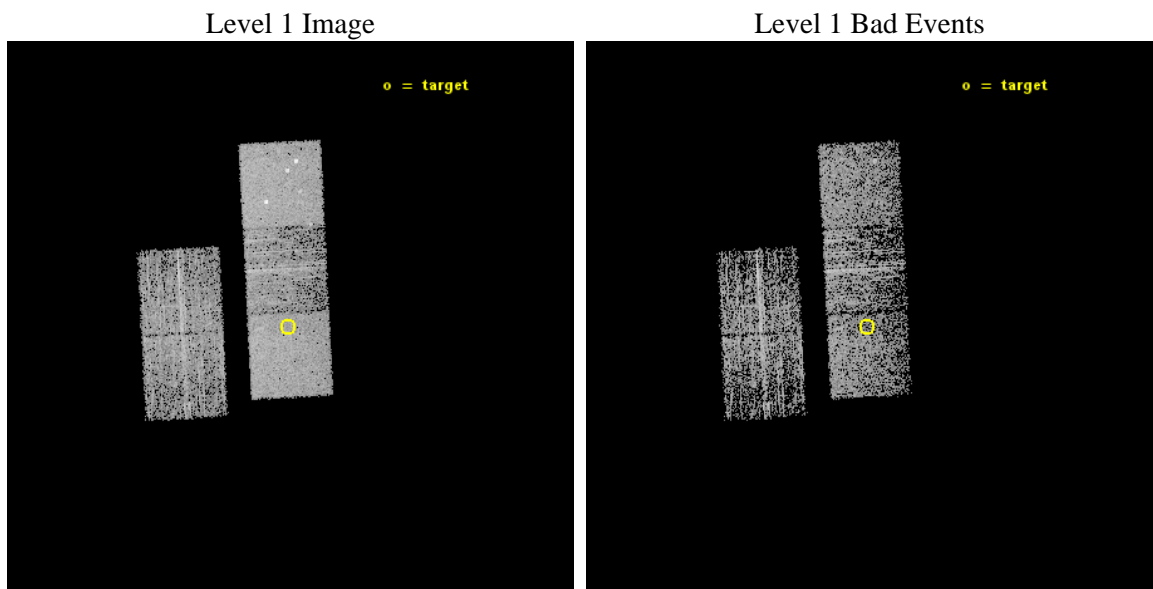
seq_num	502206	Sequence number
obs_id	15973	Observation id
title	Where Have All The Central Compact Objects Gone?	Proposal title
observer	Dr. Eric Gotthelf	Principal investigator
object	PSR J1334-5839	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	203.625417	Observer's specified target RA [deg]
dec_targ	-58.654583	Observer's specified target Dec [deg]
ra_nom	203.62082470505	Nominal RA [deg]
dec_nom	-58.652673761855	Nominal Dec [deg]
roll_nom	86.965727551641	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3568.100027442	Sum of GTIs [s]
livetime	3521.4801737864	Livetime [s]
ontime2	3568.100027442	Sum of GTIs [s]
ontime3	3568.100027442	Sum of GTIs [s]
ontime5	3568.100027442	Sum of GTIs [s]
ontime6	3568.100027442	Sum of GTIs [s]
ontime7	3568.100027442	Sum of GTIs [s]
l2events	28944	Number of level 2 events



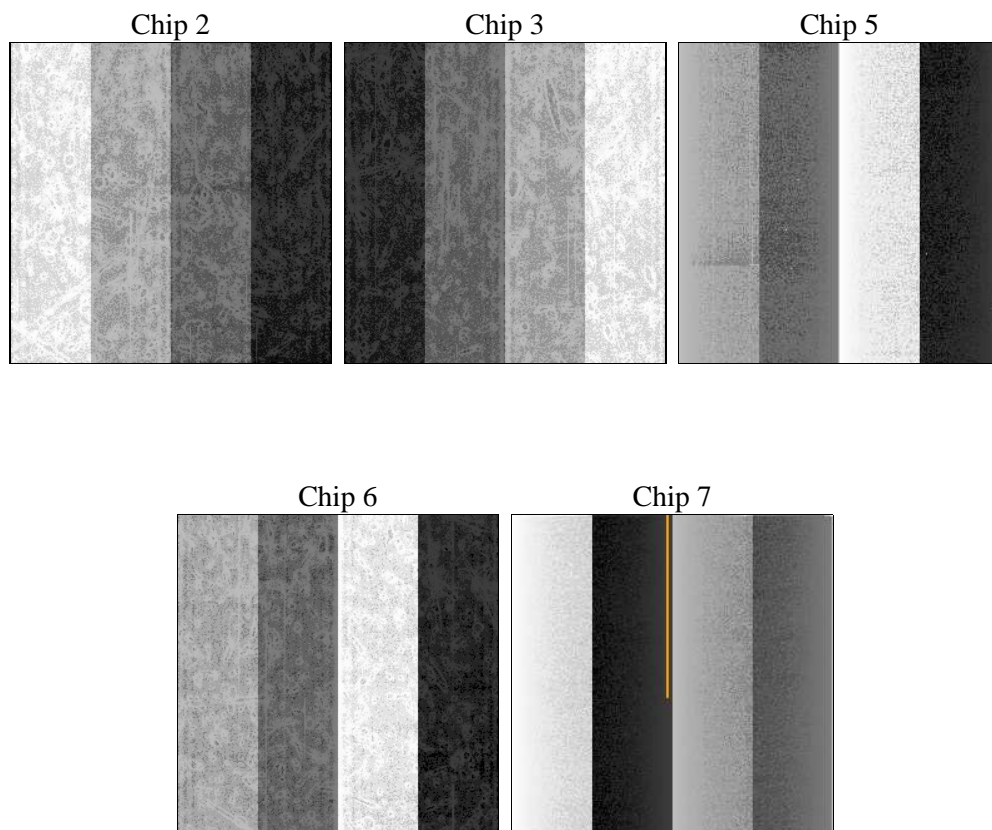
2 OBI

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	10.3.1	Processing system revision	ontime	3568.100027442	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	3568.100027442	Sum of GTIs [s]
date	2014-12-09T08:41:58	Date and time of file creation	ontime3	3568.100027442	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	3568.100027442	Sum of GTIs [s]
			ontime6	3568.100027442	Sum of GTIs [s]
			ontime7	3568.100027442	Sum of GTIs [s]
			l1events	103354	Number of level 1 events

2.1.4 Events

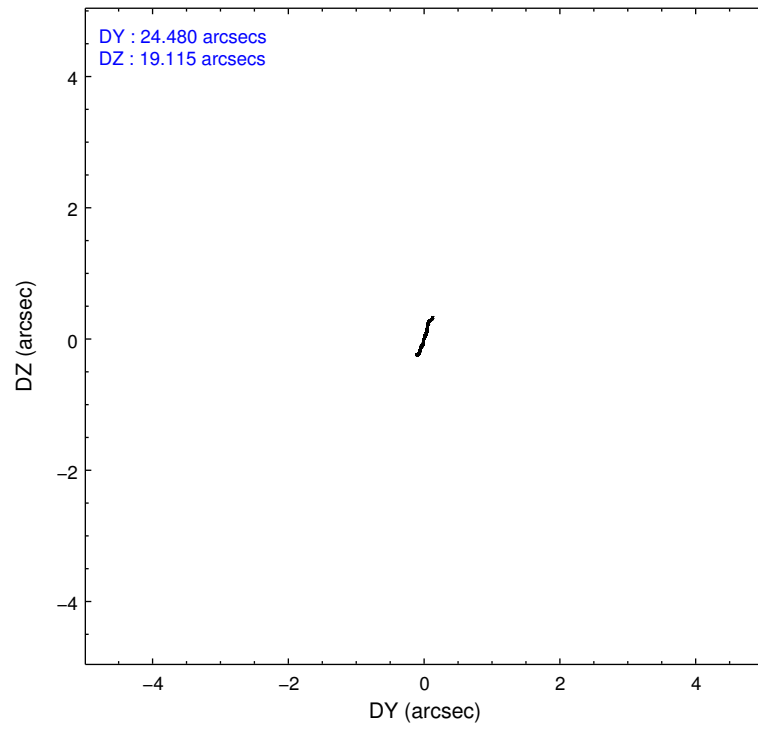
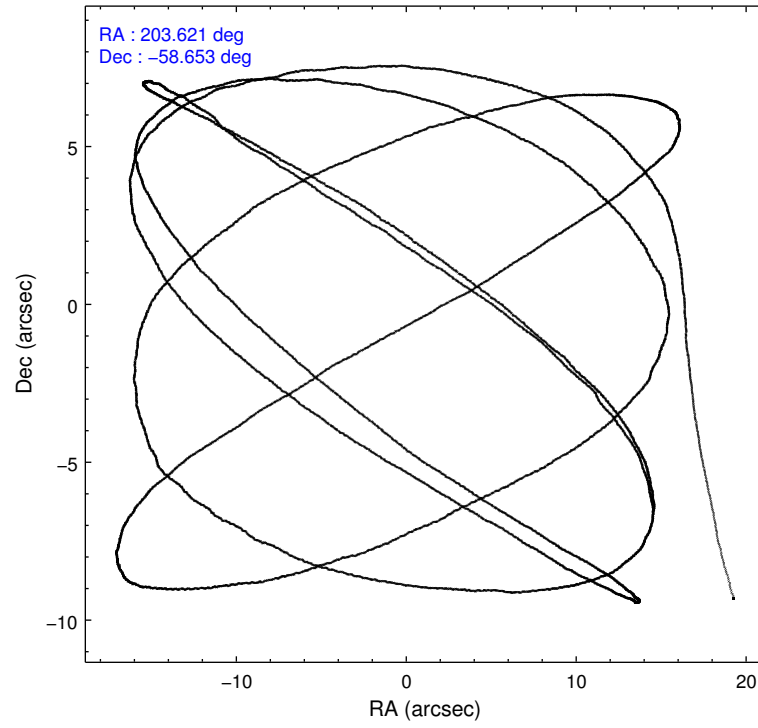
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	16783	15366	30102	16697	24406
rejected events	14714	13470	14965	14486	13818
rejected %	87%	87%	49%	86%	56%

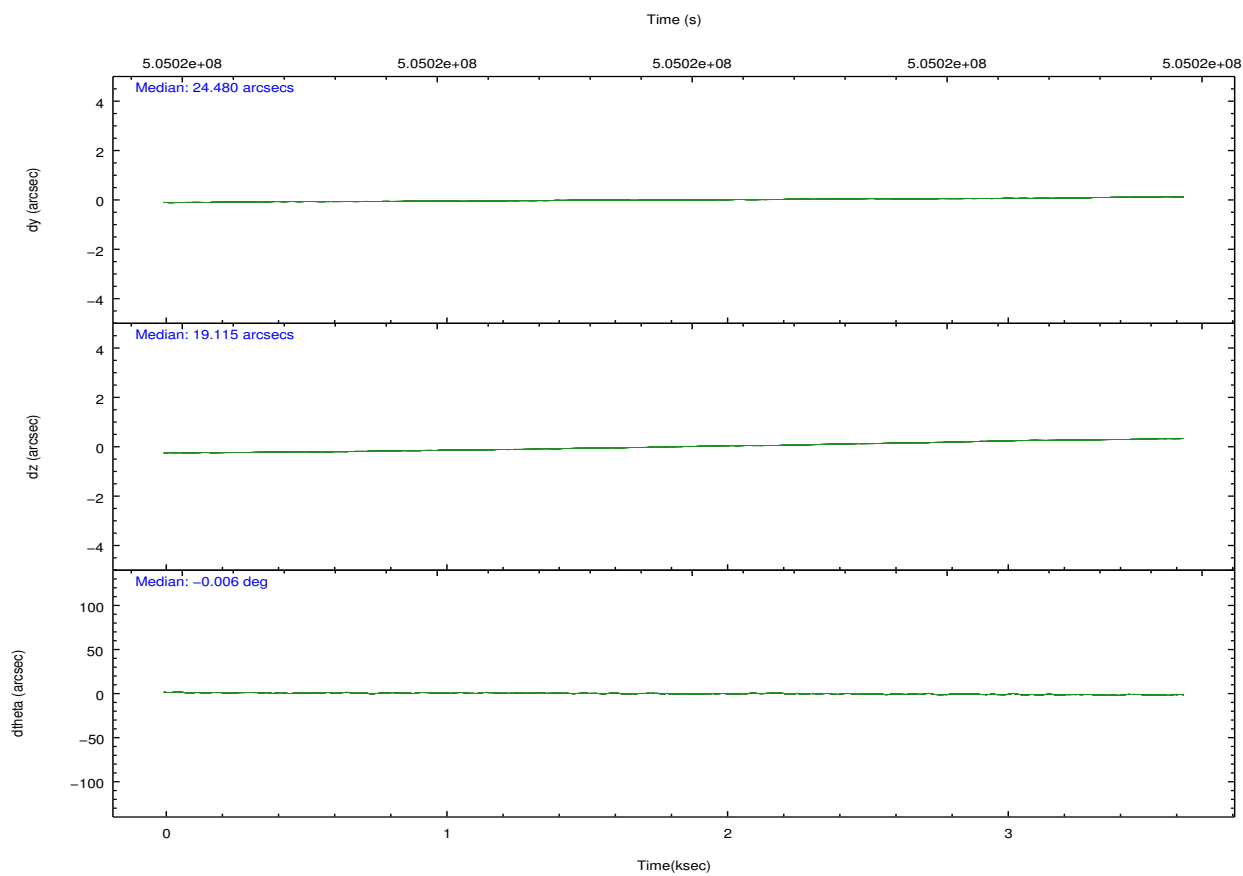
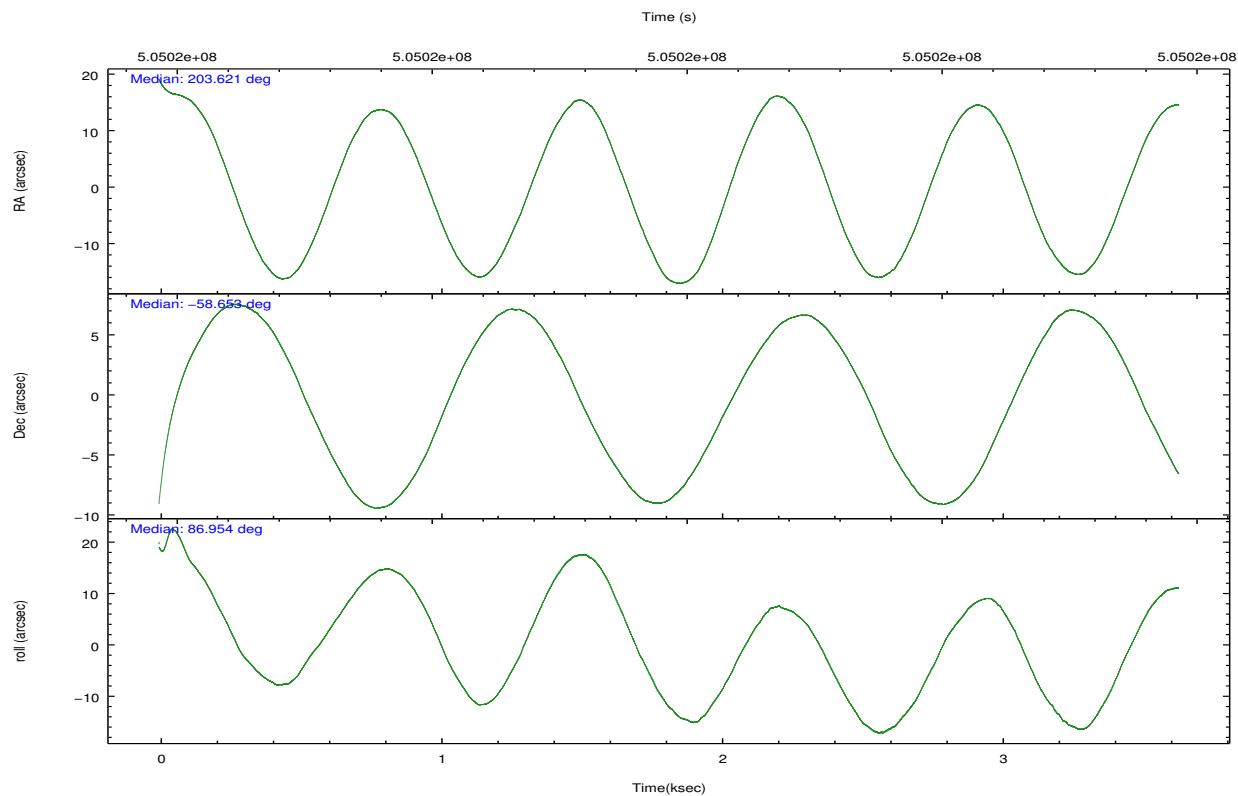
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	784	680	2369	826	876
	4%	4%	7%	4%	3%
grade 1 events	10	11	158	8	29
	0%	0%	0%	0%	0%
grade 2 events	506	435	4260	496	2218
	3%	2%	14%	2%	9%
grade 3 events	208	212	500	210	895
	1%	1%	1%	1%	3%
grade 4 events	220	196	468	240	890
	1%	1%	1%	1%	3%
grade 5 events	782	937	2094	884	2309
	4%	6%	6%	5%	9%
grade 6 events	357	374	7568	442	5729
	2%	2%	25%	2%	23%
grade 7 events	13916	12521	12685	13591	11460
	82%	81%	42%	81%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	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	203.645170	203.6208247050519	CCD I2 on	O2	Y
[deg] Pointing Dec	-58.677020	-58.65267376185486	CCD I3 on	O3	Y
[deg] Pointing Roll	86.829943	86.96572755164125	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O4	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	505021246.184000	505020160.29941	CCD S5 on	N	N
Observation start date	2014-01-02T03:39:39	2014-01-02T03:22:40	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	505024746.184000	505026289.28725	On-chip summing requested	N	N
Observation end date	2014-01-02T04:37:59	2014-01-02T05:04:49	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



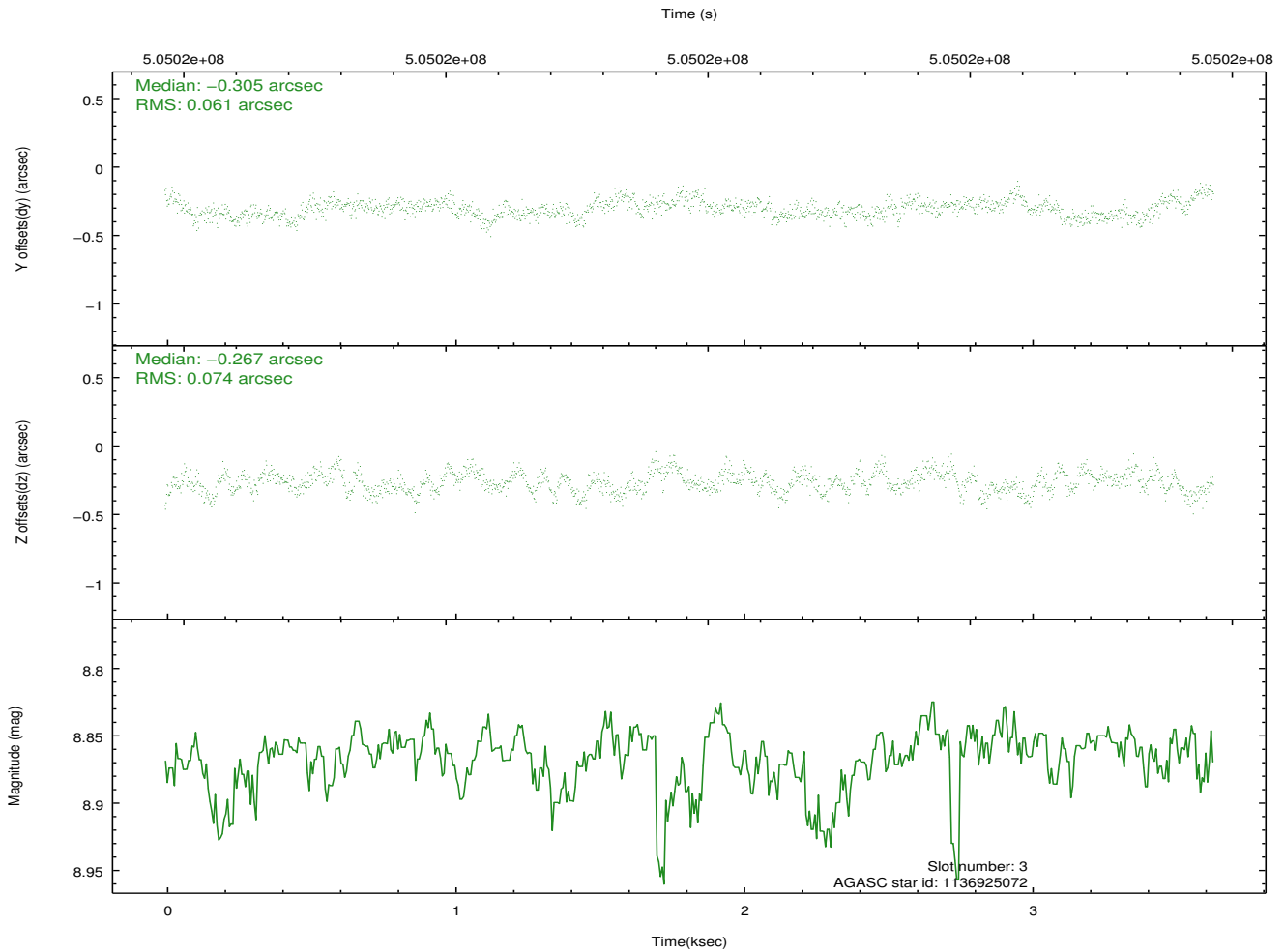
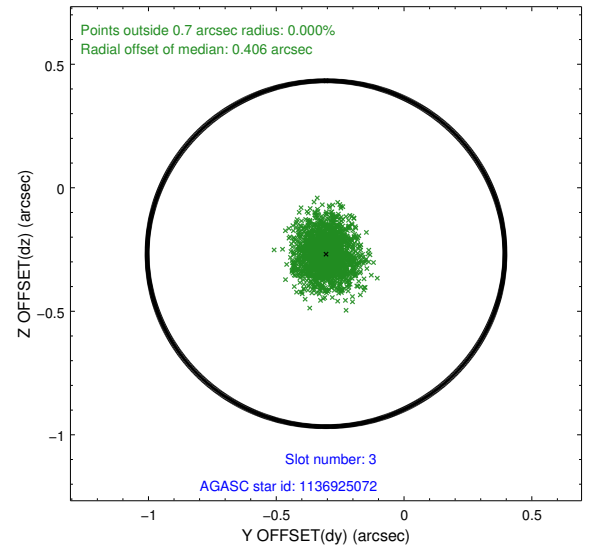
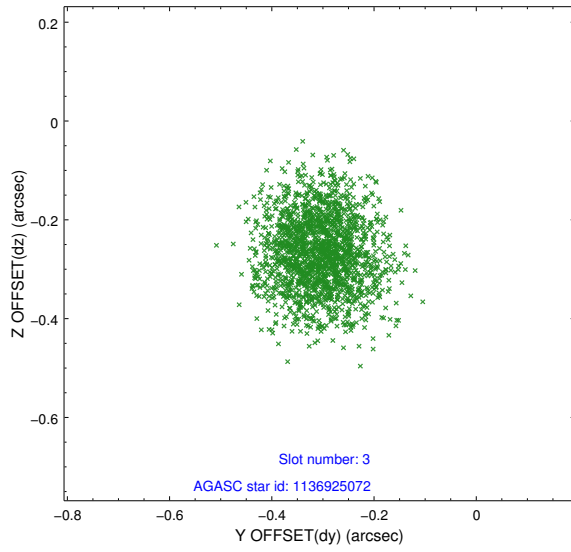


Slot Statistics

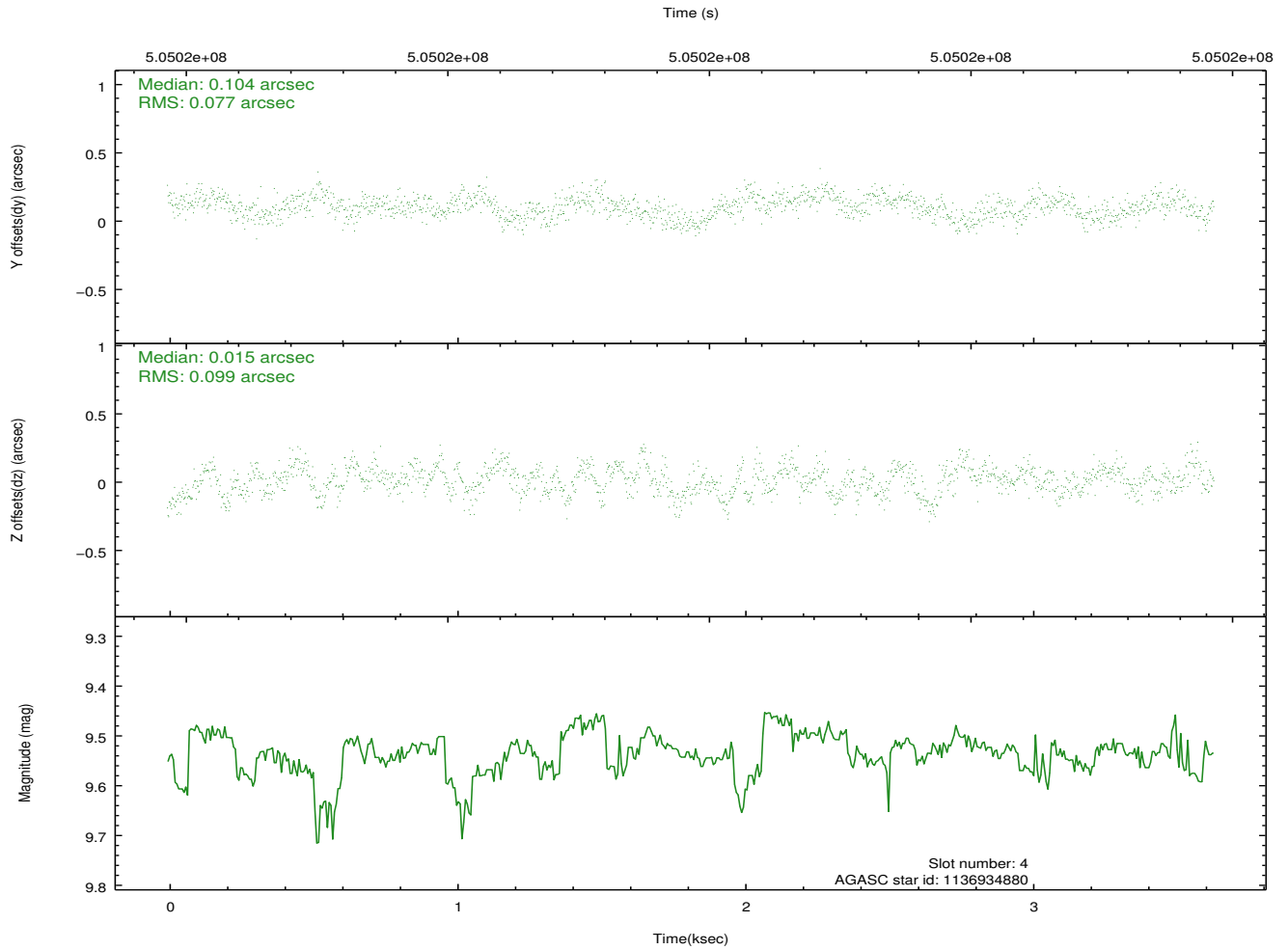
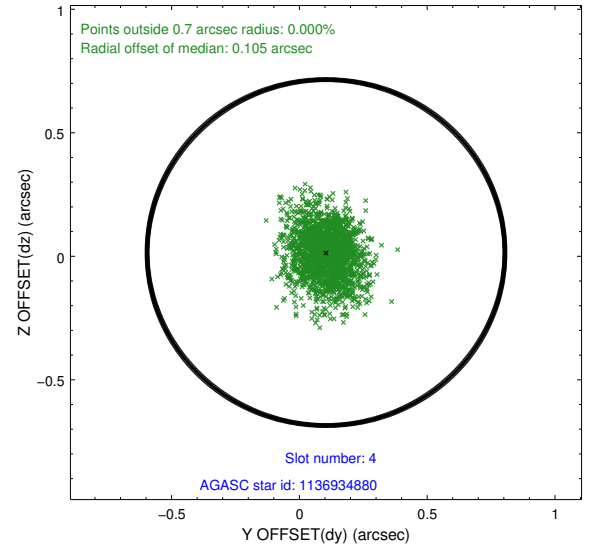
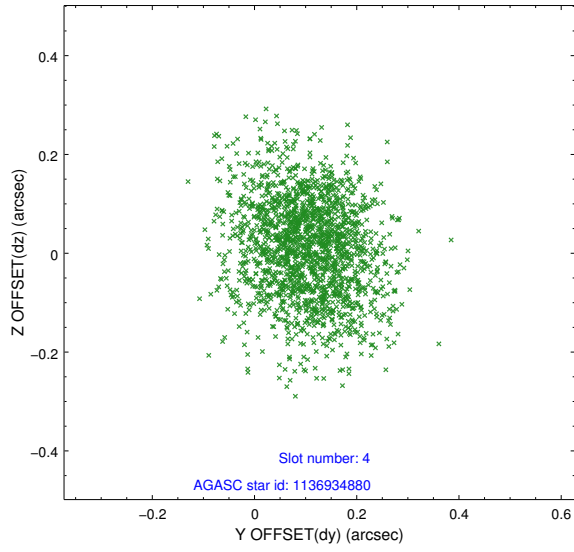
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.07	887	-0.017	0.017	0.010	0.015	0.000000	0.000000	918.32	-1736.17
1	FID		ACIS-S-4	7.09	886	0.287	0.001	0.009	0.015	0.000000	0.000000	2136.96	166.18
2	FID		ACIS-S-5	7.10	887	-0.295	-0.006	0.007	0.011	0.000000	0.000000	-1828.64	161.70
3	GUIDE	used	1136925072	8.87	1773	-0.305	-0.267	0.103	0.161	202.493019	-58.595877	152.59	2173.38
4	GUIDE	used	1136934880	9.53	1774	0.104	0.015	0.132	0.219	202.517258	-58.979024	-1219.40	2029.82
5	GUIDE	used	1137051384	8.98	1773	-0.092	0.054	0.089	0.147	204.432754	-58.395720	1083.88	-1425.97
6	GUIDE	used	1137063680	7.68	1774	0.107	0.517	0.079	0.143	204.145291	-58.939297	-894.18	-979.76
7	GUIDE	used	1136933408	8.92	1772	0.177	-0.320	0.095	0.153	202.625905	-58.957926	-1129.73	1832.02

2.4 Star Slots

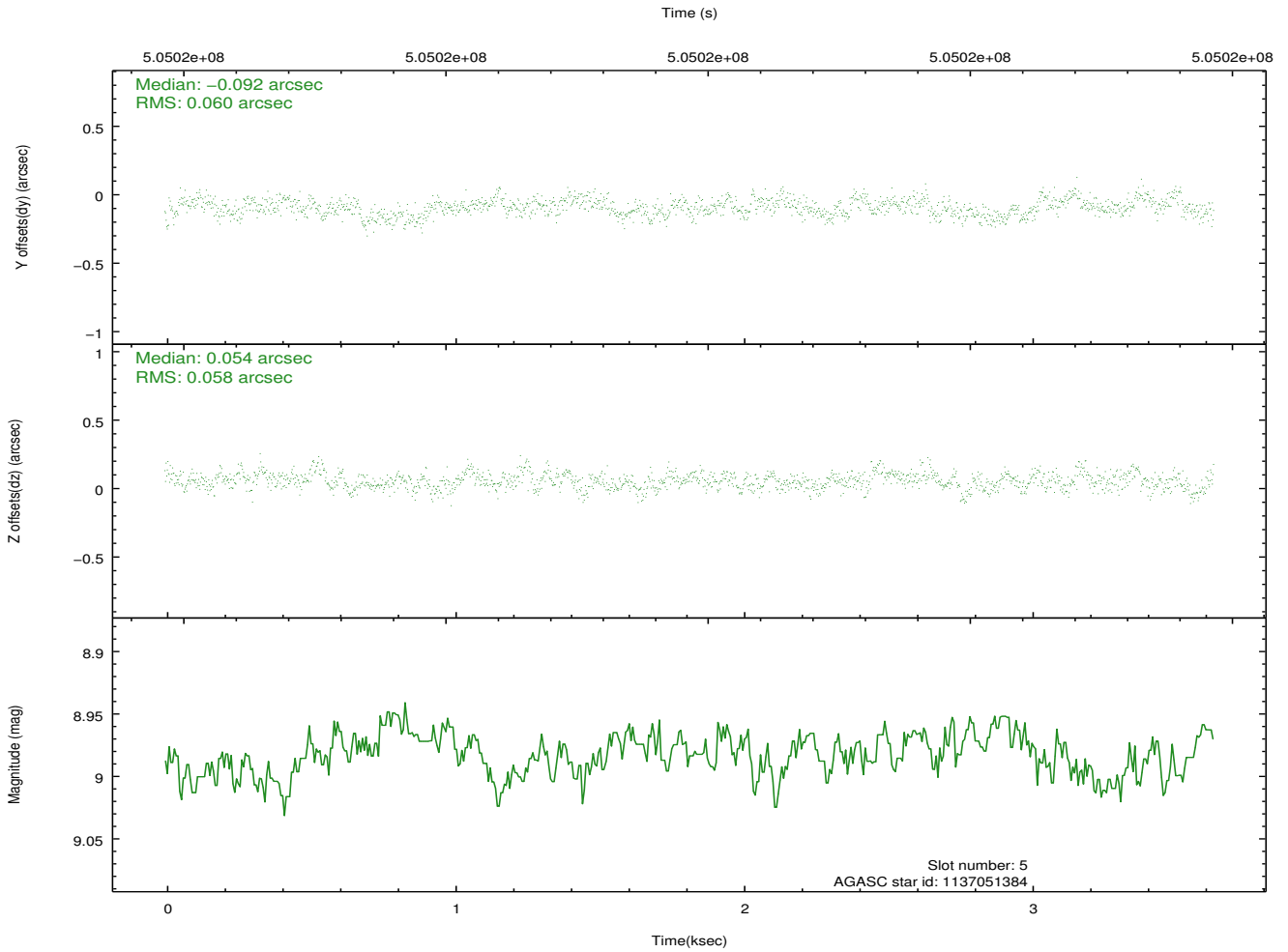
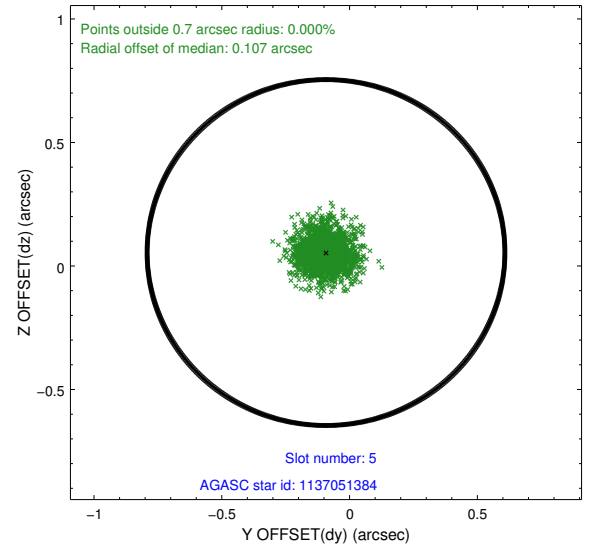
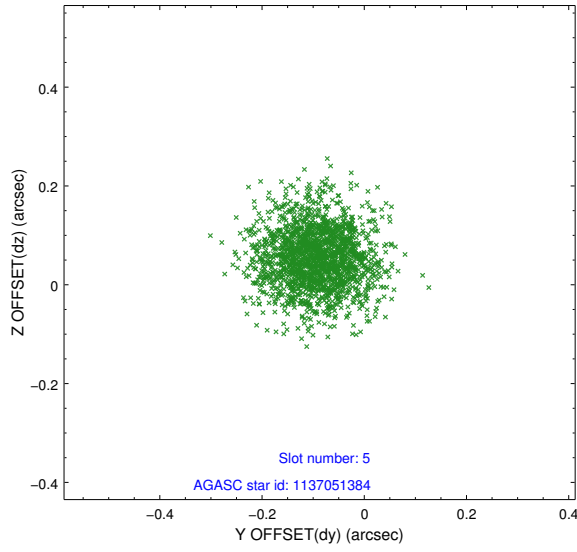
2.4.1 Slot 3



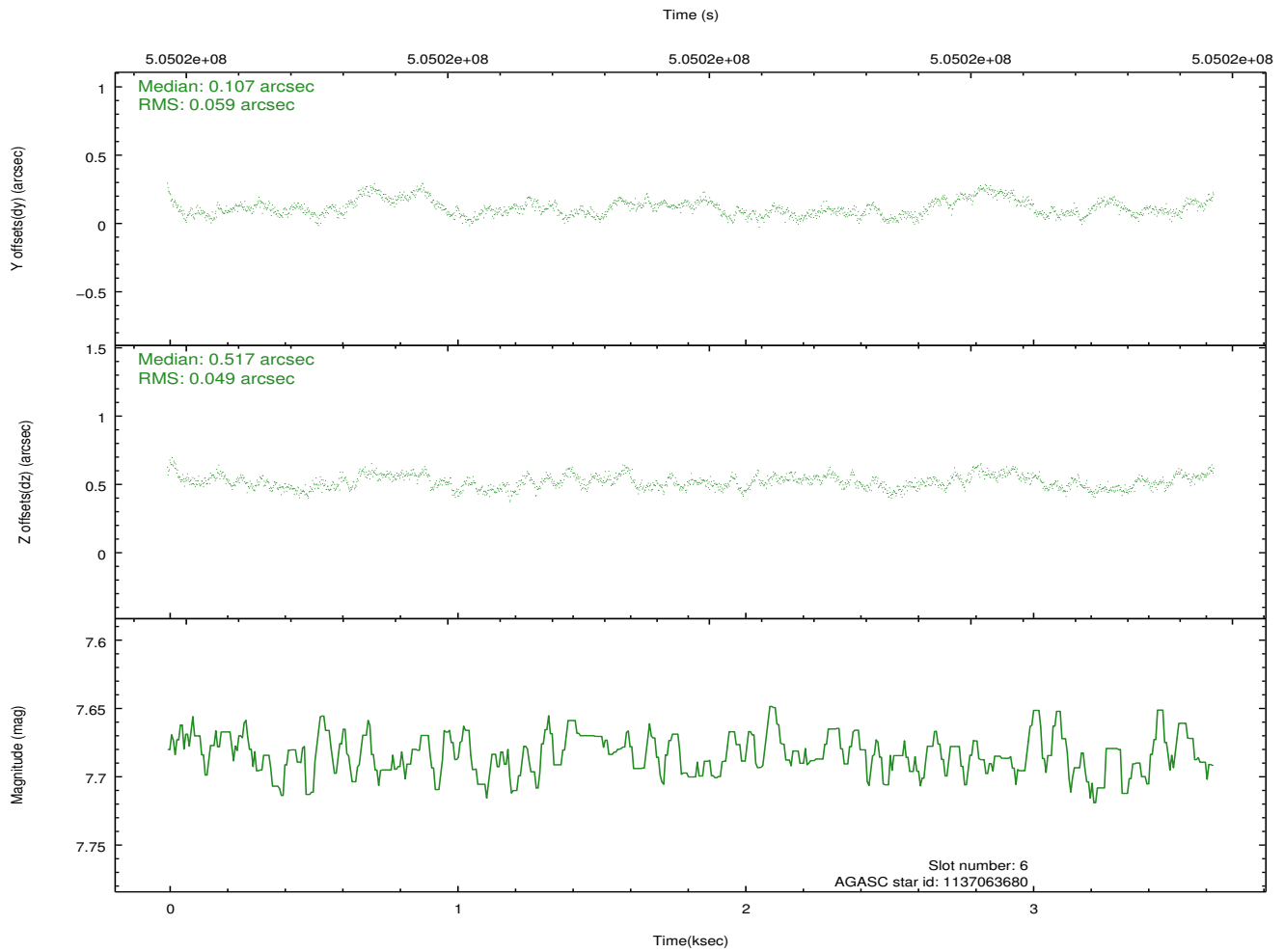
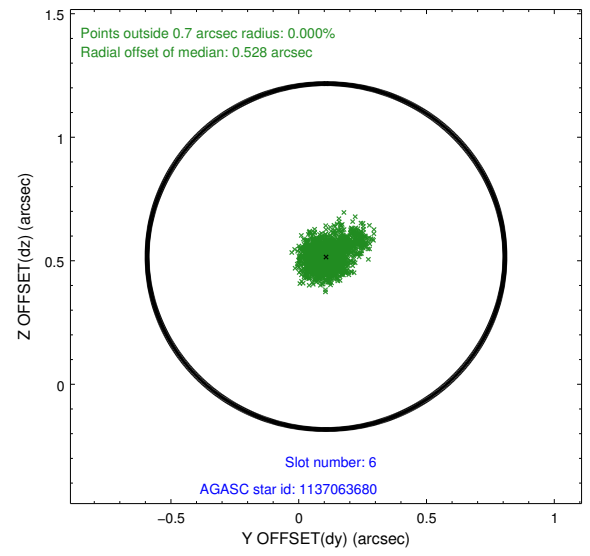
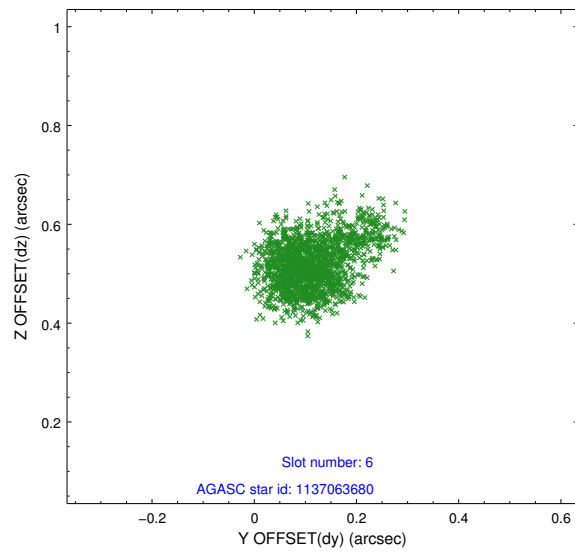
2.4.2 Slot 4



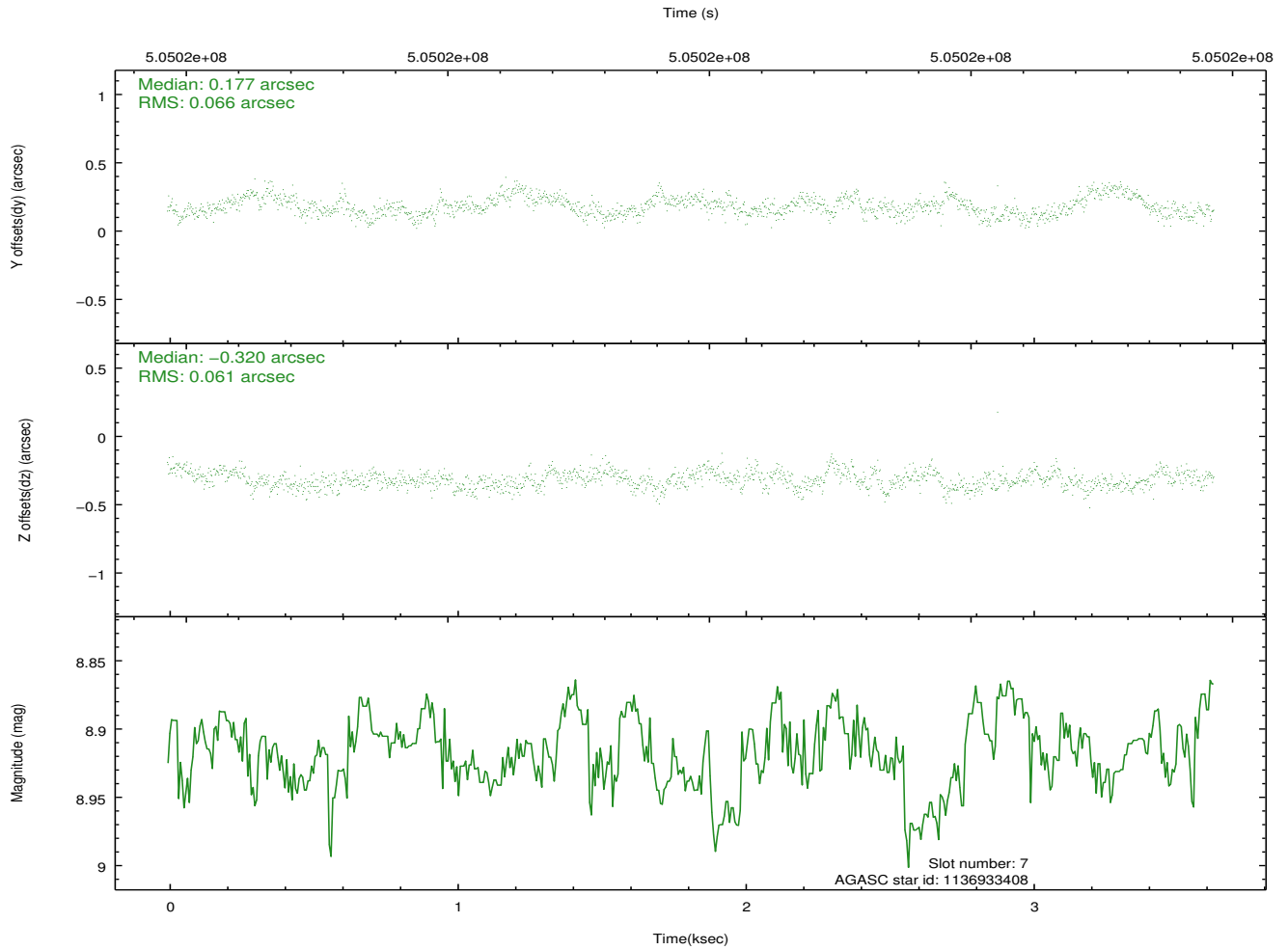
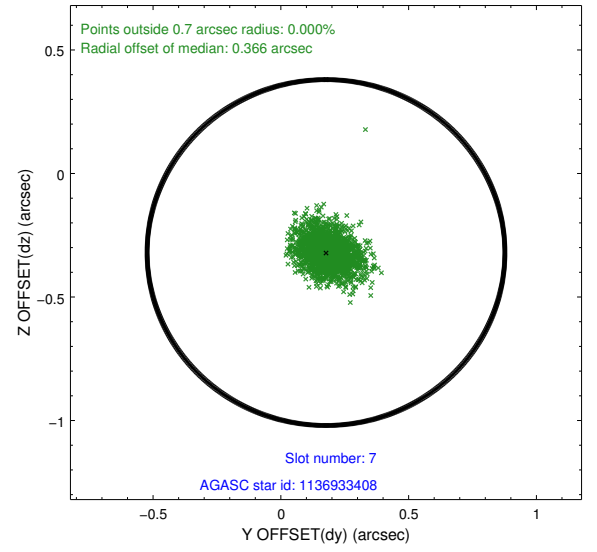
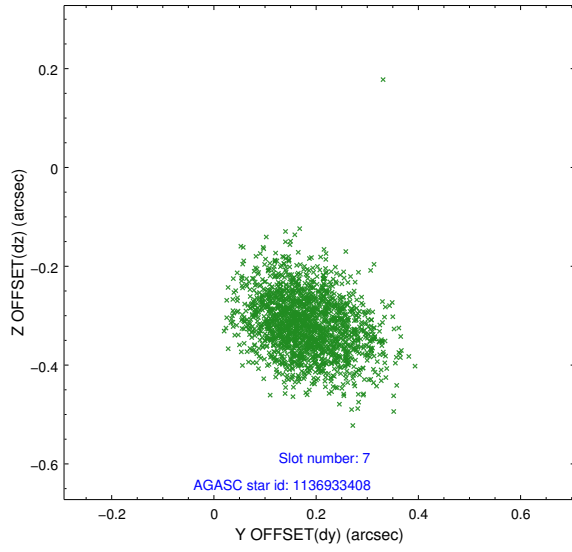
2.4.3 Slot 5



2.4.4 Slot 6

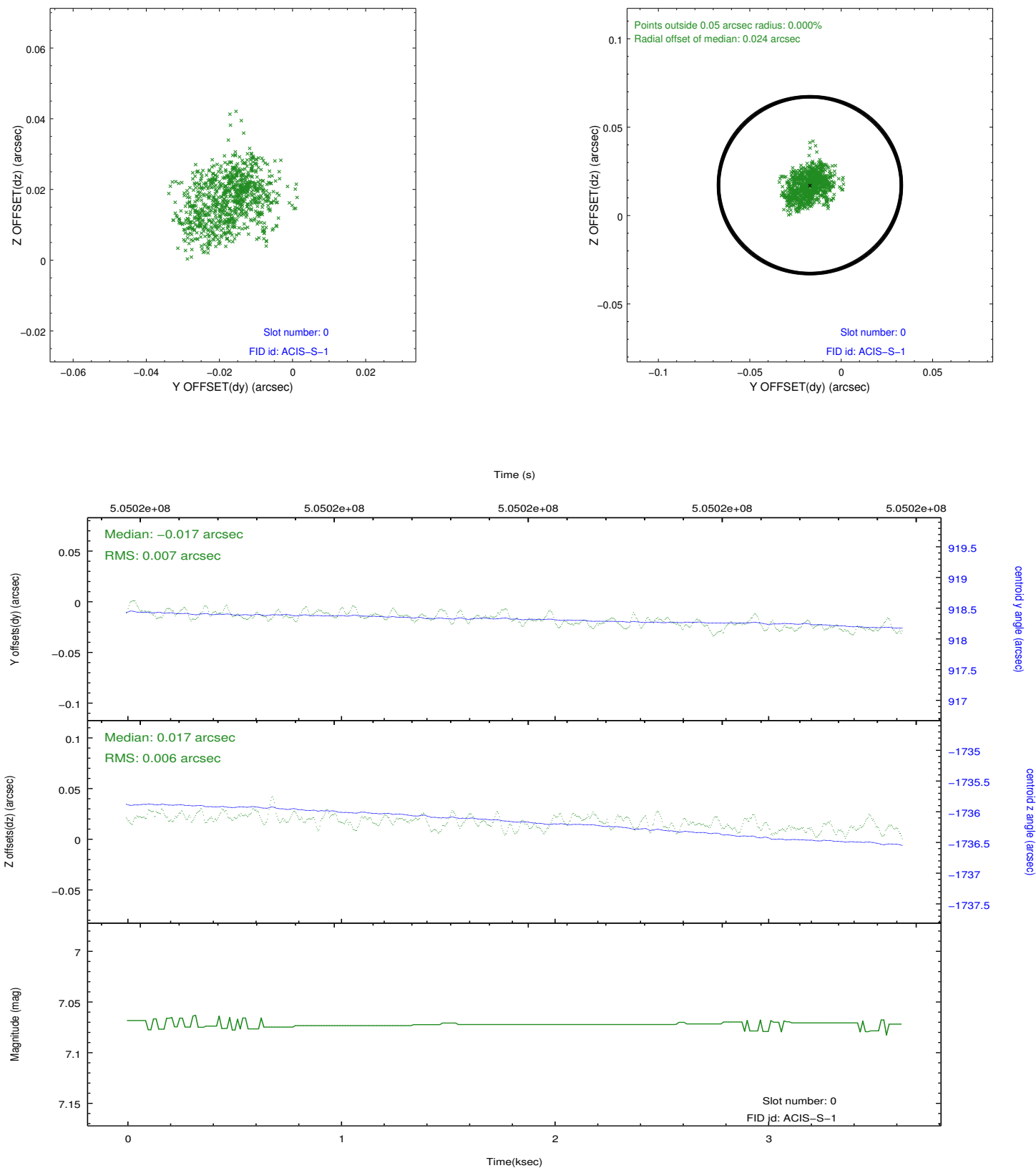


2.4.5 Slot 7

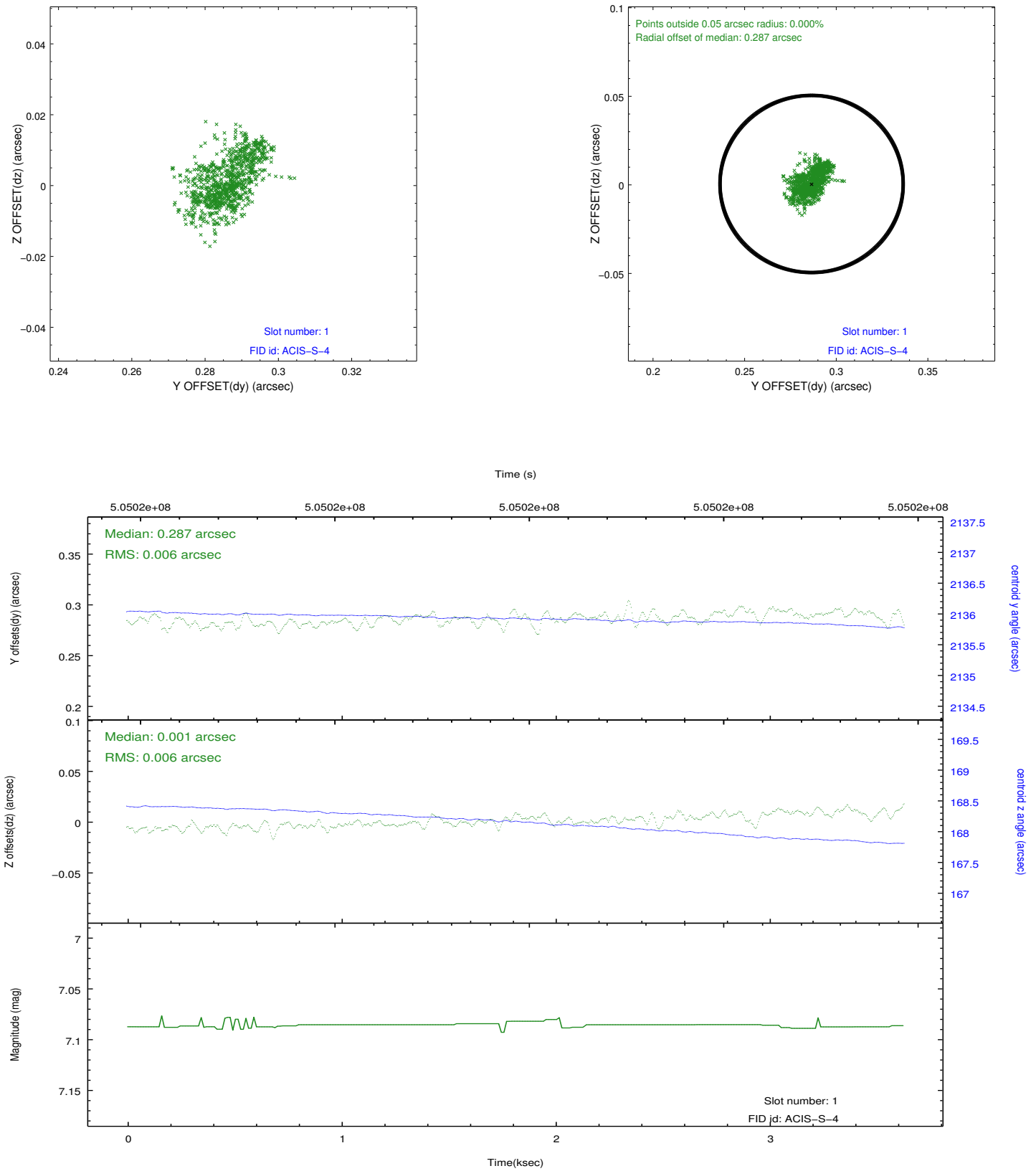


2.5 FID Slots

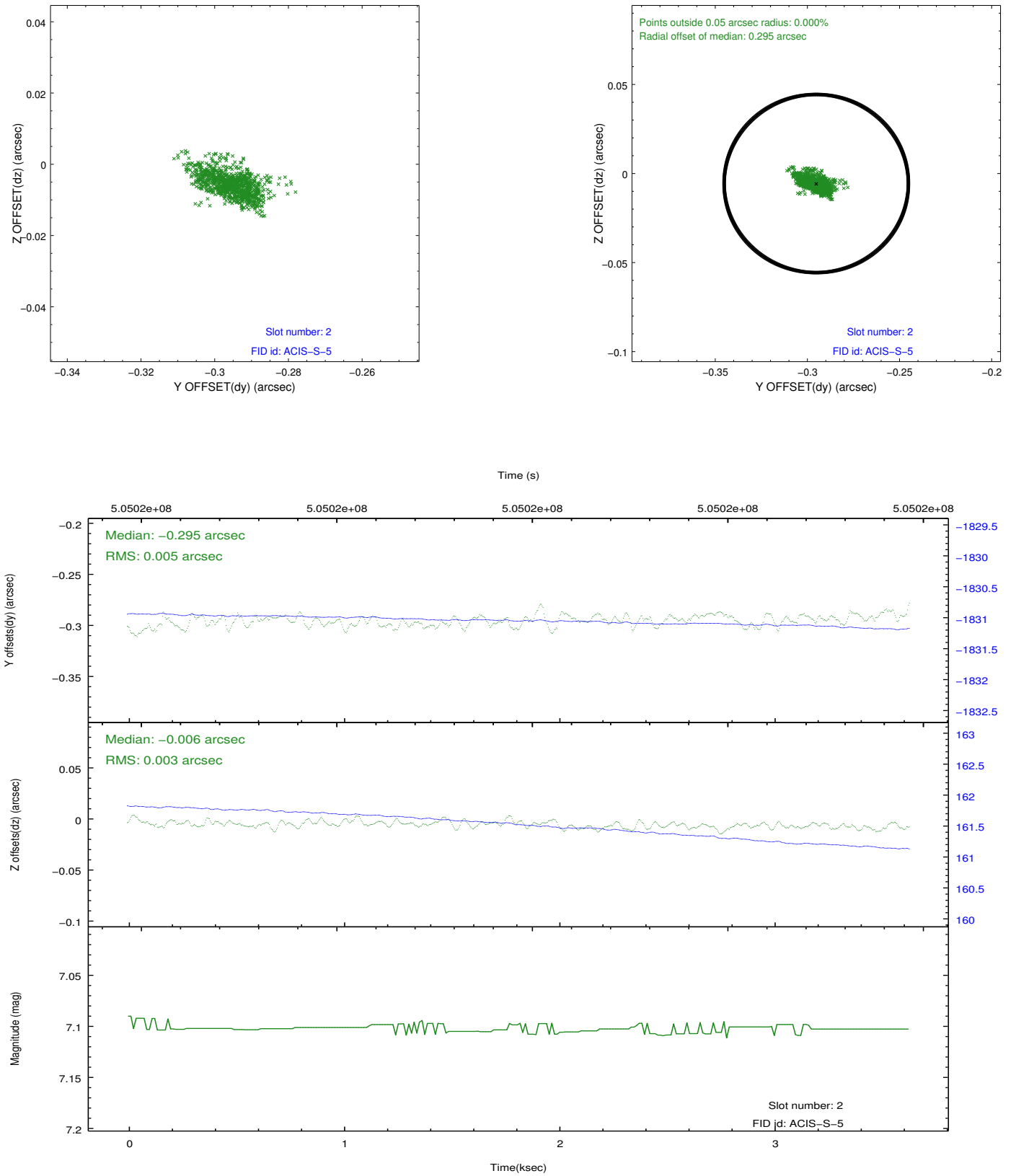
2.5.1 Slot 0



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)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.568100027442

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.