

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15158 - L2 Version 2
Chandra X-Ray Center

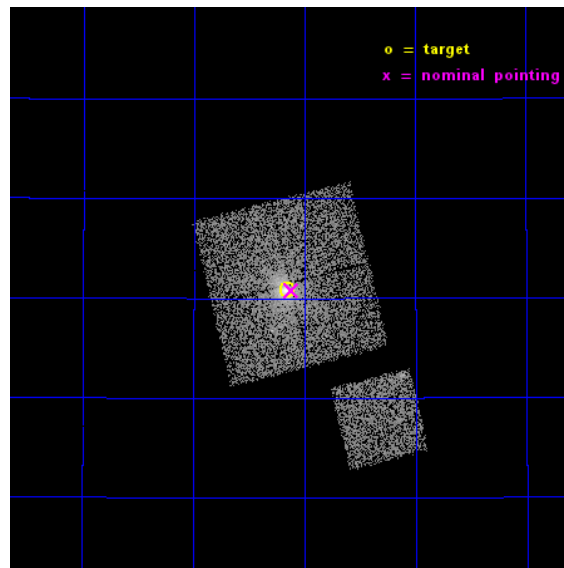
L2 Processing Date : Dec 1 2014

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1 Front

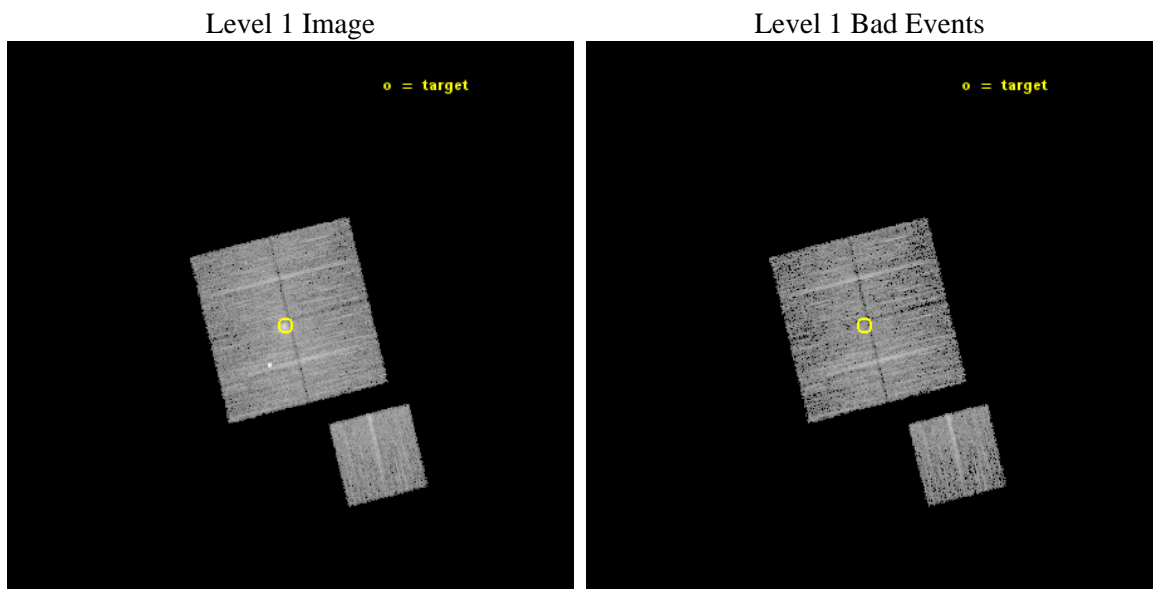
seq_num	801286	Sequence number
obs_id	15158	Observation id
title	COMPLETING eHIFLUGCS: THE ULTIMATE PRECISE AND ACCURATE LOCAL BASELINE	Proposal title
observer	Dr. Thomas Reiprich	Principal investigator
object	RBS1066	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	181.29	Observer's specified target RA [deg]
dec_targ	39.347	Observer's specified target Dec [deg]
ra_nom	181.27959434236	Nominal RA [deg]
dec_nom	39.346556206788	Nominal Dec [deg]
roll_nom	166.10482962672	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8083.4238164425	Sum of GTIs [s]
livetime	7977.8079333506	Livetime [s]
ontime0	8080.1596360803	Sum of GTIs [s]
ontime1	8083.3417364359	Sum of GTIs [s]
ontime2	8080.2417160869	Sum of GTIs [s]
ontime3	8083.4238164425	Sum of GTIs [s]
ontime6	8083.2596564293	Sum of GTIs [s]
l2events	25906	Number of level 2 events



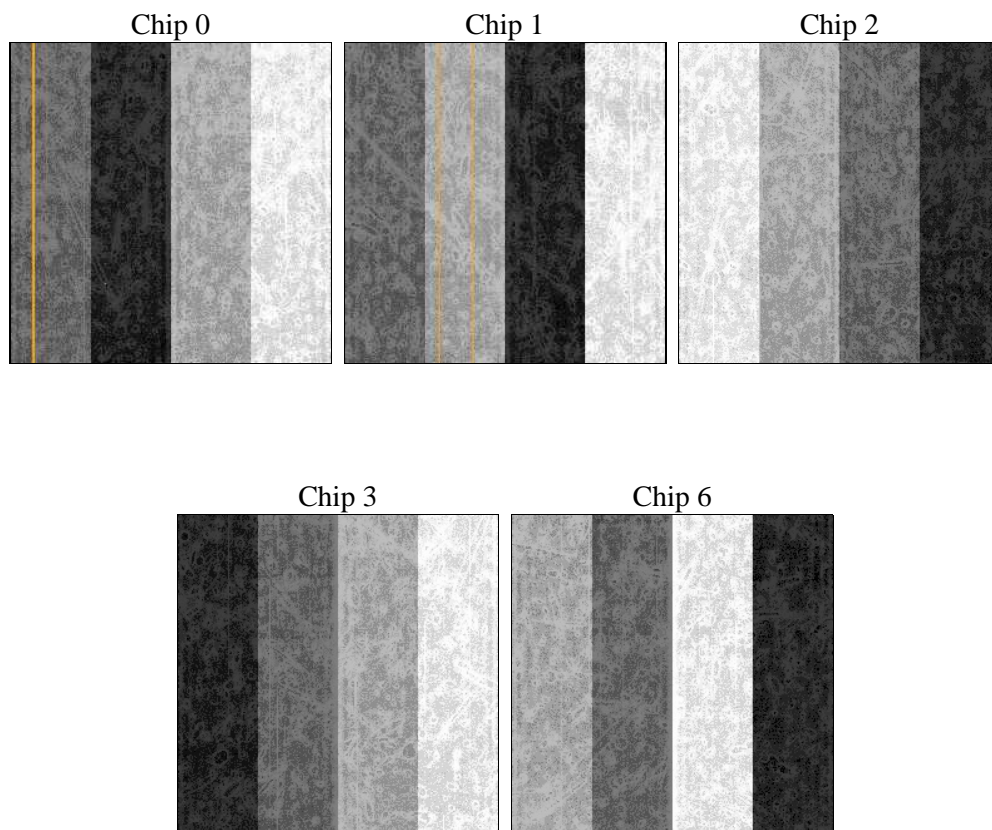
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	8000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	8083.4238164425	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	8080.1596360803	Sum of GTIs [s]
date	2014-12-02T00:30:37	Date and time of file creation	ontime1	8083.3417364359	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8080.2417160869	Sum of GTIs [s]
			ontime3	8083.4238164425	Sum of GTIs [s]
			ontime6	8083.2596564293	Sum of GTIs [s]
			l1events	212081	Number of level 1 events

2.1.4 Events

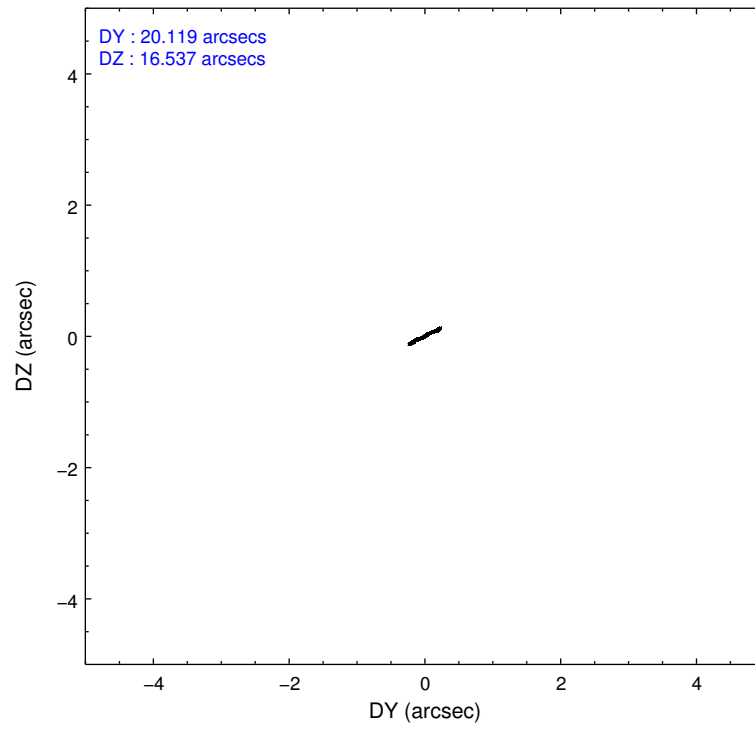
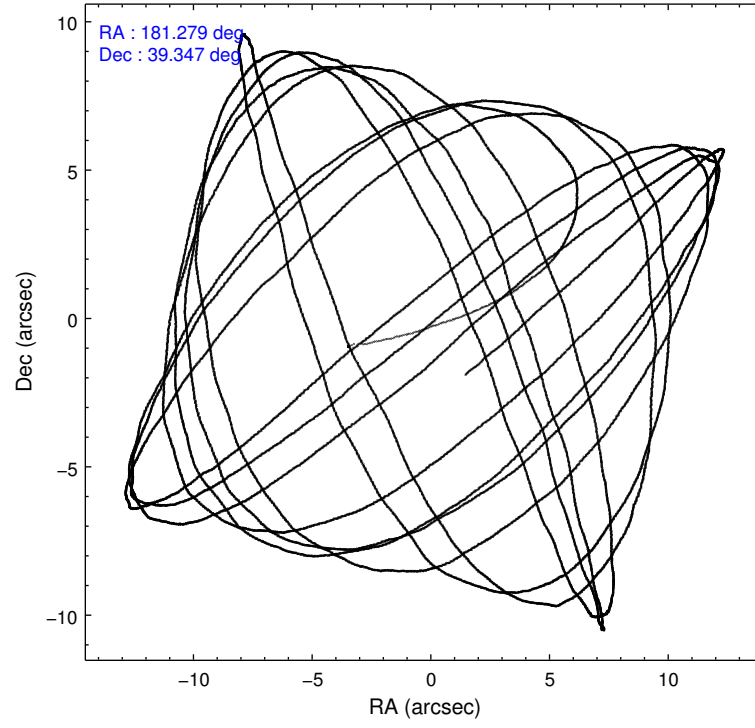
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	37894	40021	44377	48528	41261
rejected events	32792	33754	38832	37815	36326
rejected %	86%	84%	87%	77%	88%

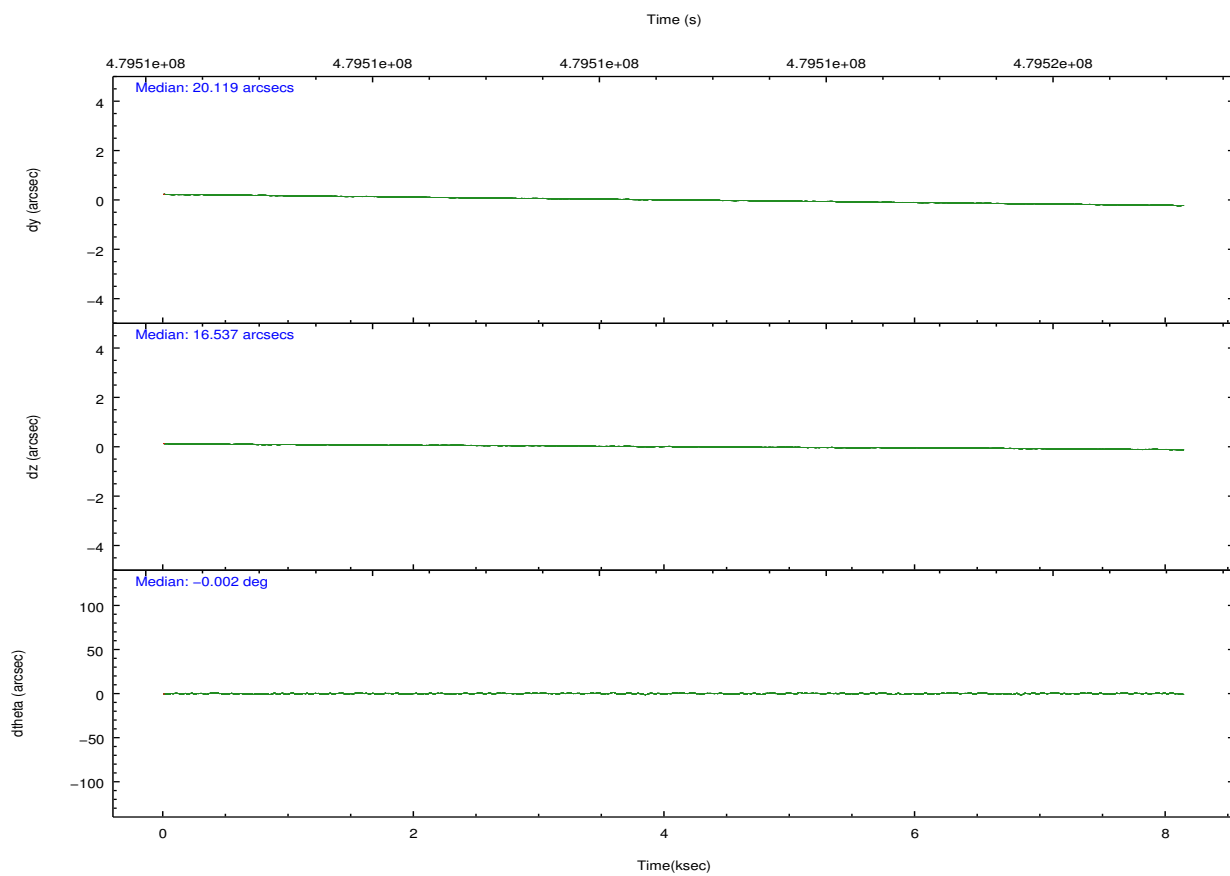
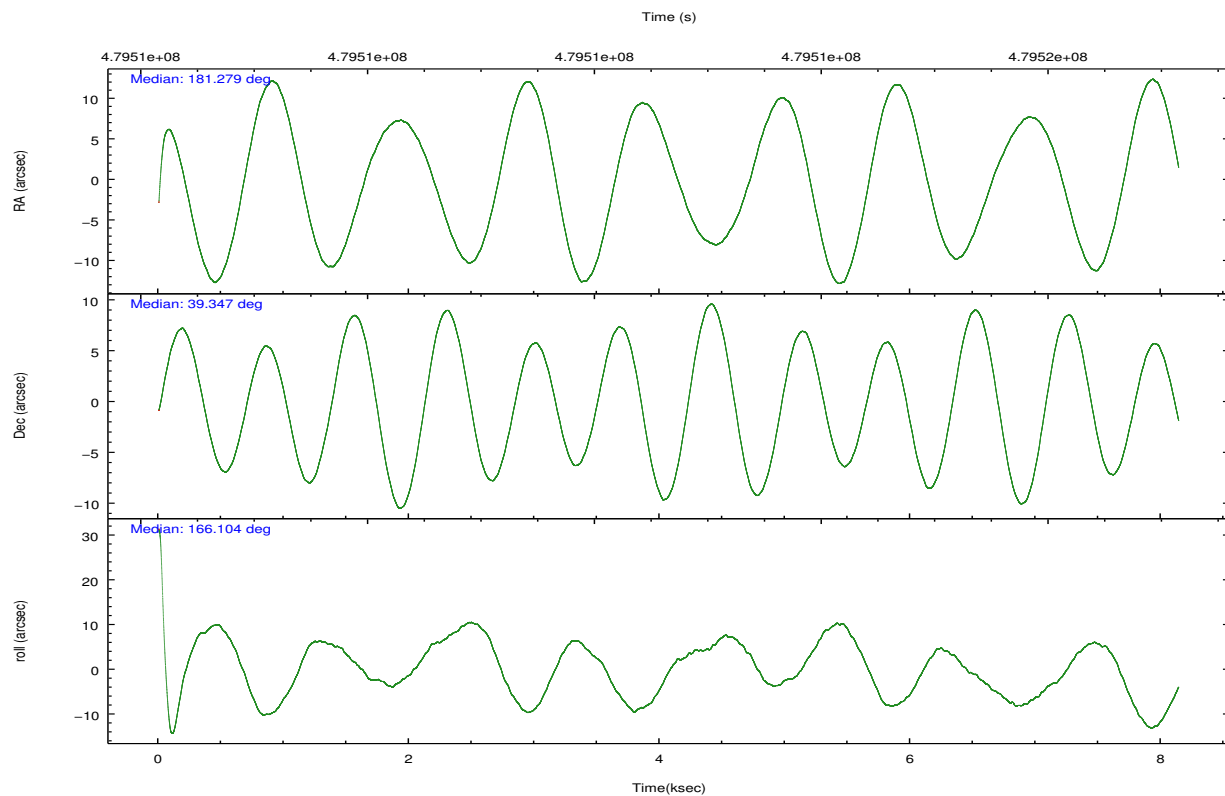
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2024	2762	2453	7228	1758
	5%	6%	5%	14%	4%
grade 1 events	27	27	39	50	24
	0%	0%	0%	0%	0%
grade 2 events	1211	1286	1229	1345	1105
	3%	3%	2%	2%	2%
grade 3 events	513	594	493	570	512
	1%	1%	1%	1%	1%
grade 4 events	452	545	503	586	493
	1%	1%	1%	1%	1%
grade 5 events	1729	1798	1518	1923	1808
	4%	4%	3%	3%	4%
grade 6 events	908	1087	876	992	1074
	2%	2%	1%	2%	2%
grade 7 events	31030	31922	37266	35834	34487
	81%	79%	83%	73%	83%

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	181.313688	181.2795943423619	CCD I2 on	Y	Y
[deg] Pointing Dec	39.354247	39.34655620678774	CCD I3 on	Y	Y
[deg] Pointing Roll	165.874446	166.1048296267218	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[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)	479508725.184000	479507378.98437	CCD S5 on	N	N
Observation start date	2013-03-12T20:50:58	2013-03-12T20:29:38	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	479516725.184000	479517183.10986	On-chip summing requested	N	N
Observation end date	2013-03-12T23:04:18	2013-03-12T23:13:03	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



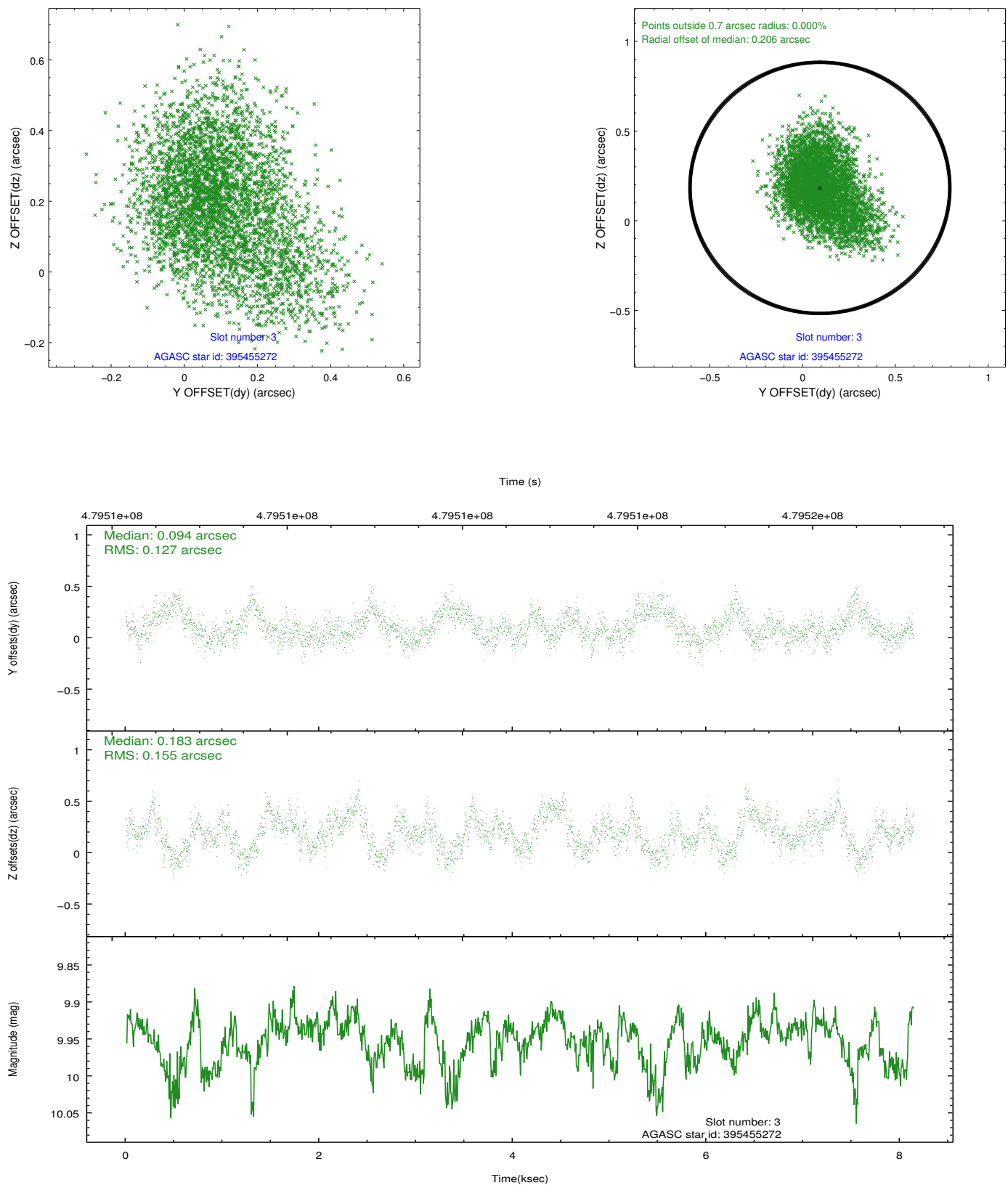


Slot Statistics

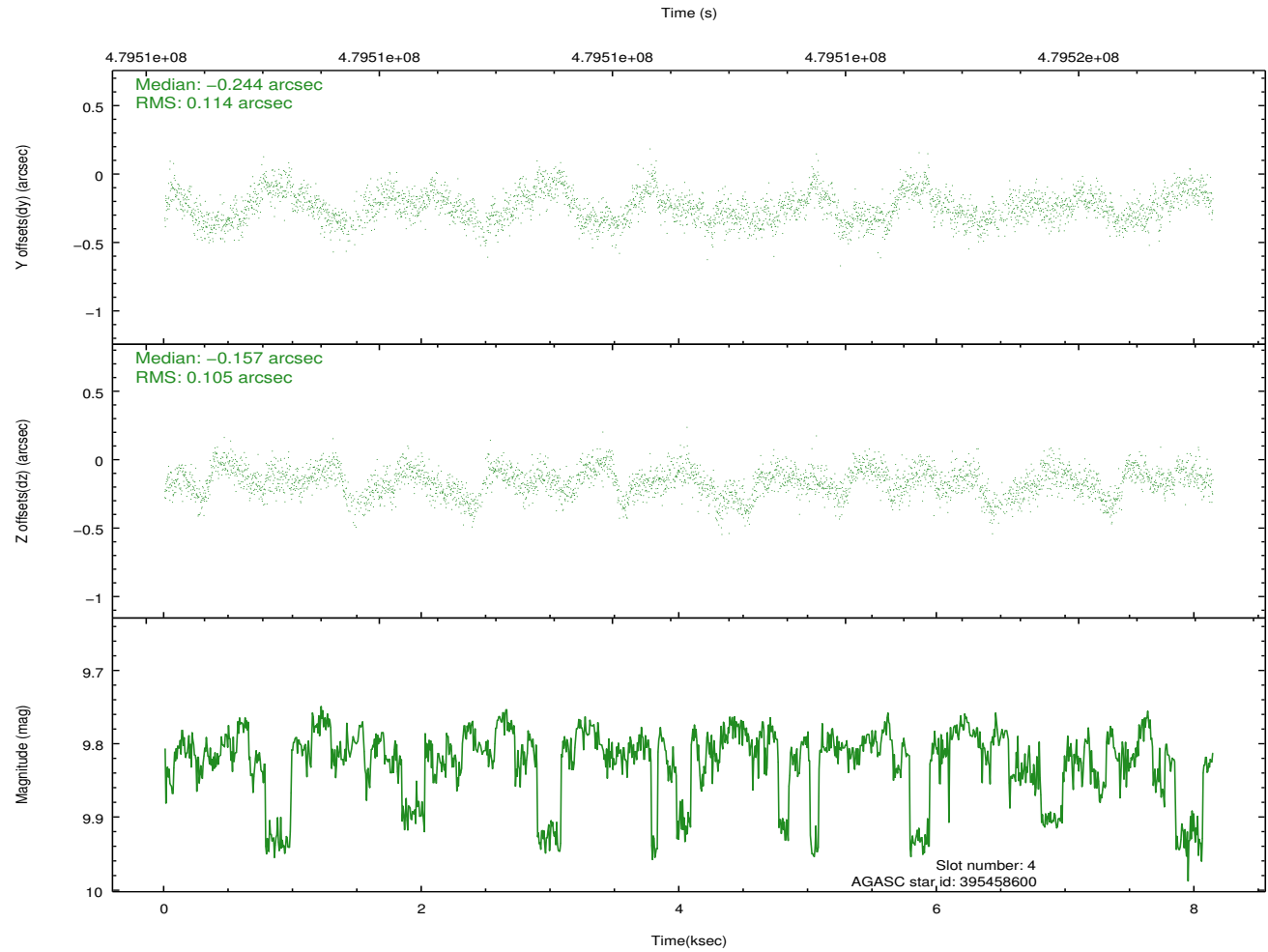
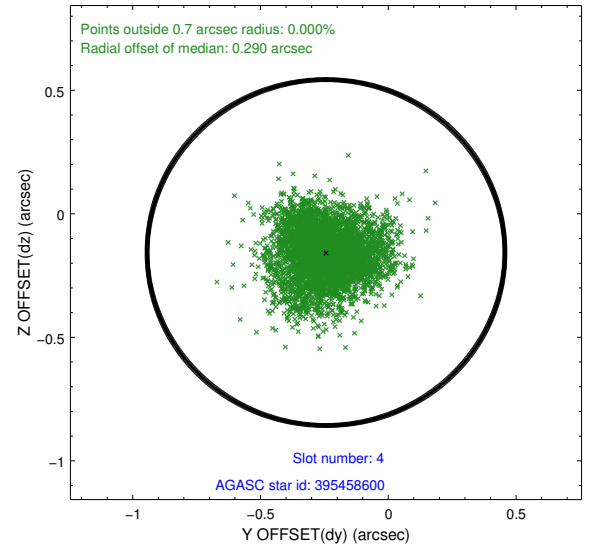
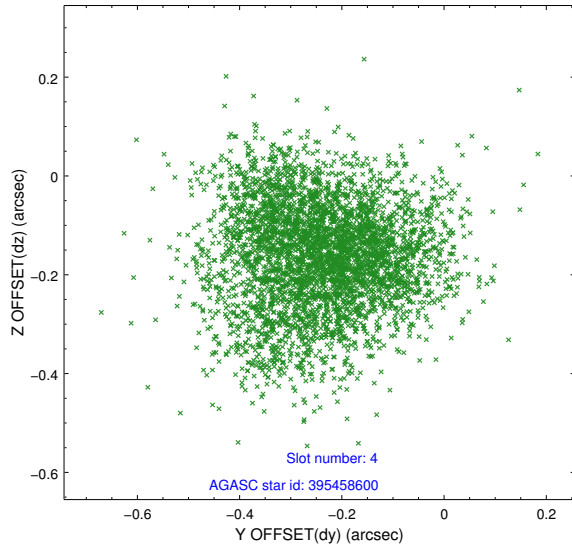
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.18	1986	0.091	-0.059	0.006	0.011	0.000000	0.000000	919.29	-840.24
1	FID		ACIS-I-5	7.18	1986	-0.304	0.064	0.006	0.010	0.000000	0.000000	-1828.83	1057.03
2	FID		ACIS-I-6	7.19	1986	0.122	0.065	0.007	0.012	0.000000	0.000000	384.12	1702.32
3	GUIDE	used	395455272	9.95	3968	0.094	0.183	0.215	0.350	180.820396	39.504560	1462.22	-192.77
4	GUIDE	used	395458600	9.82	3846	-0.244	-0.157	0.167	0.262	180.471038	39.020184	1994.95	1730.95
5	GUIDE	used	395458880	9.26	3962	0.132	-0.256	0.128	0.206	181.300592	38.856427	-401.06	1747.26
6	GUIDE	used	395459952	9.38	3958	-0.092	0.070	0.125	0.191	181.854255	39.210518	-1586.42	131.66
7	GUIDE	used	395461032	7.49	3970	0.069	0.159	0.102	0.167	182.028999	39.655498	-1654.55	-1542.12

2.4 Star Slots

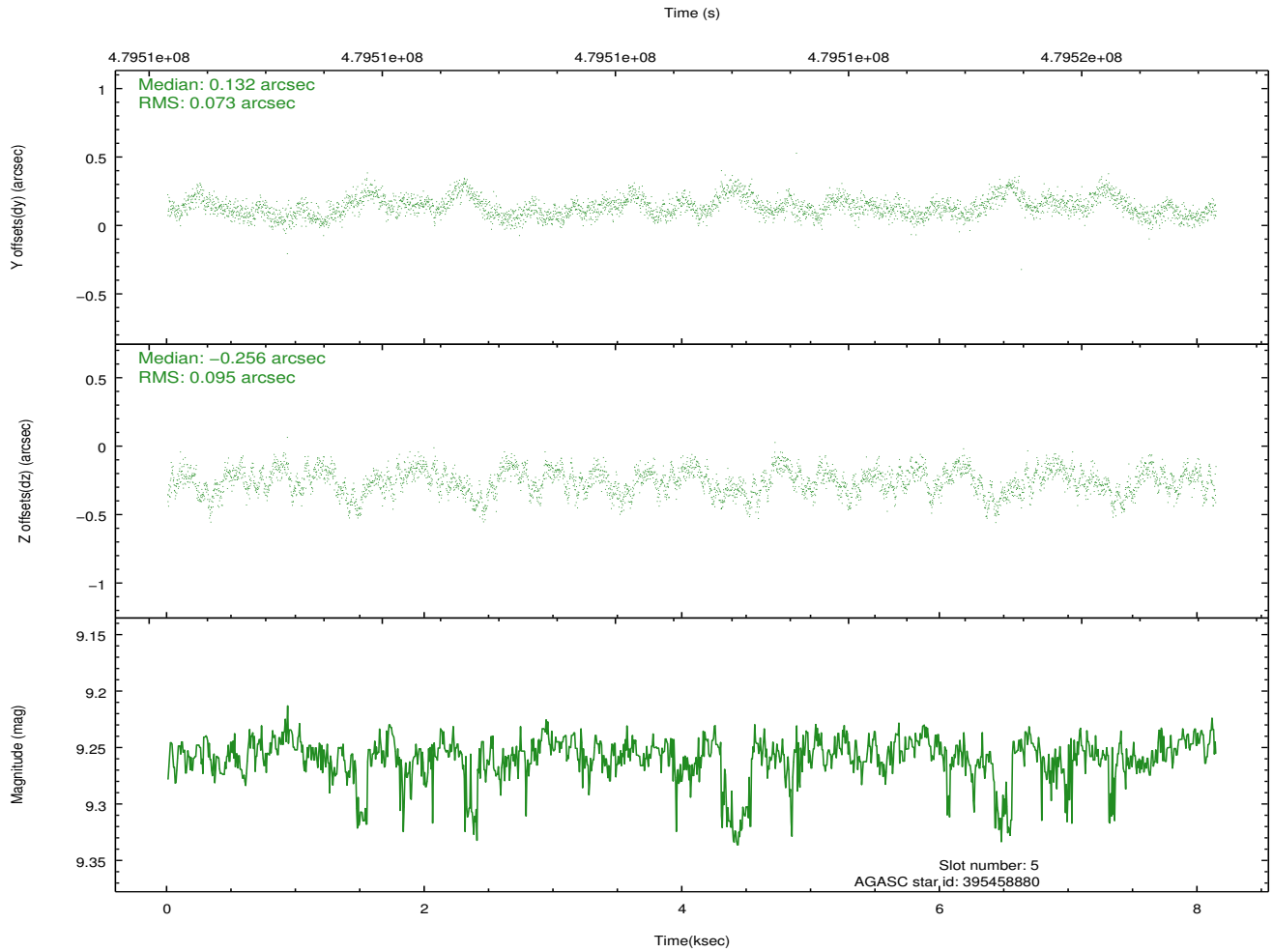
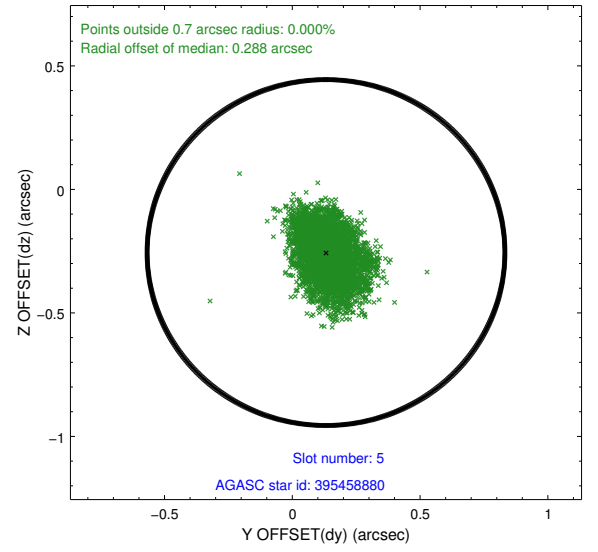
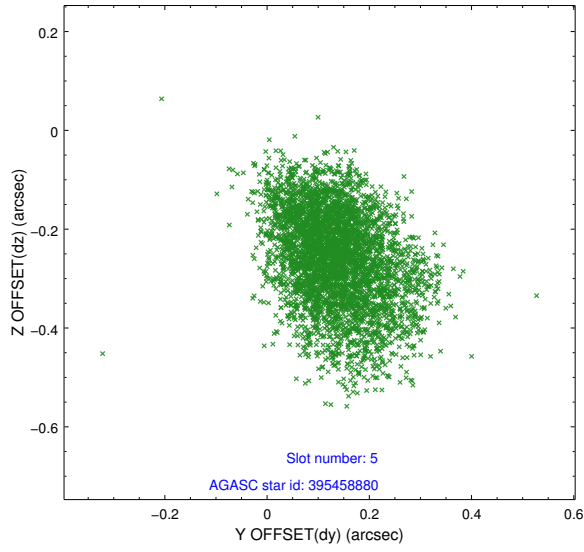
2.4.1 Slot 3



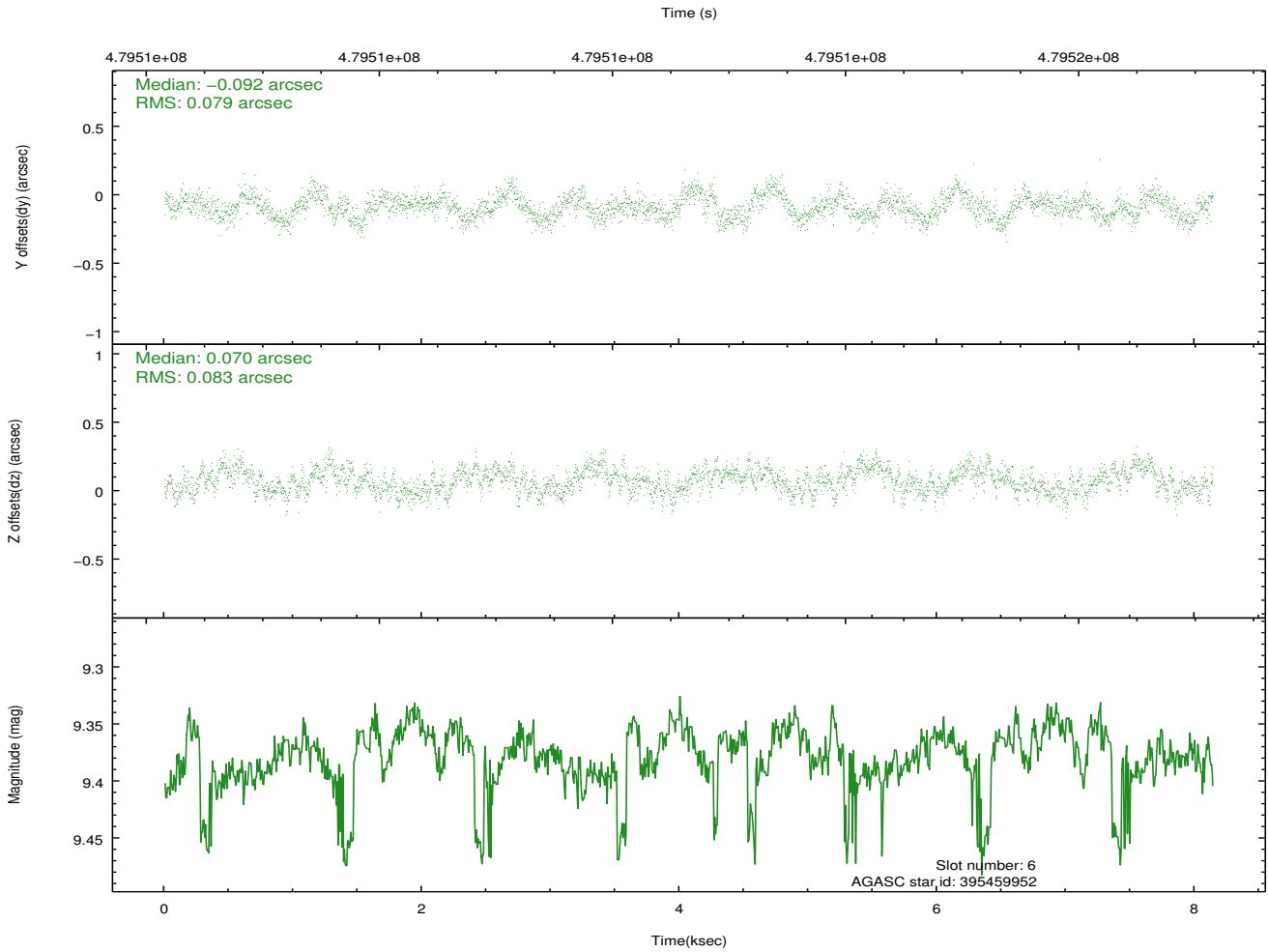
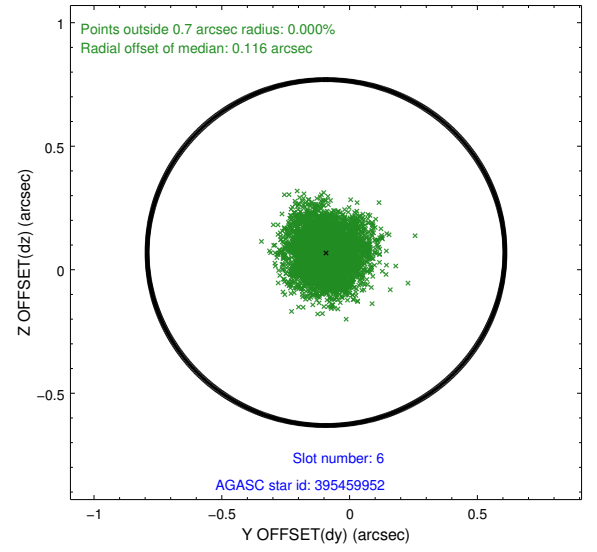
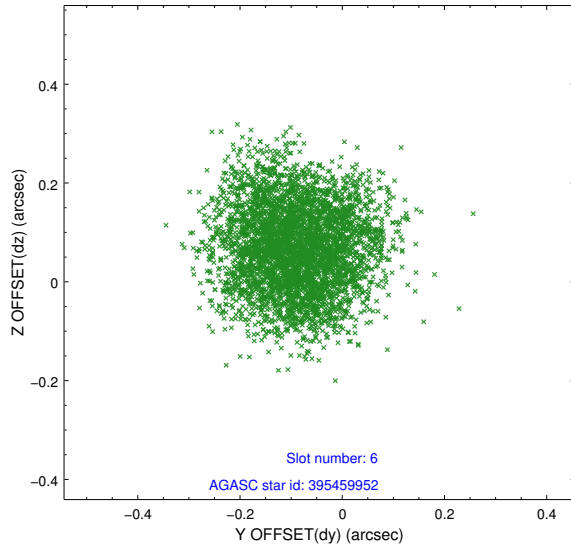
2.4.2 Slot 4



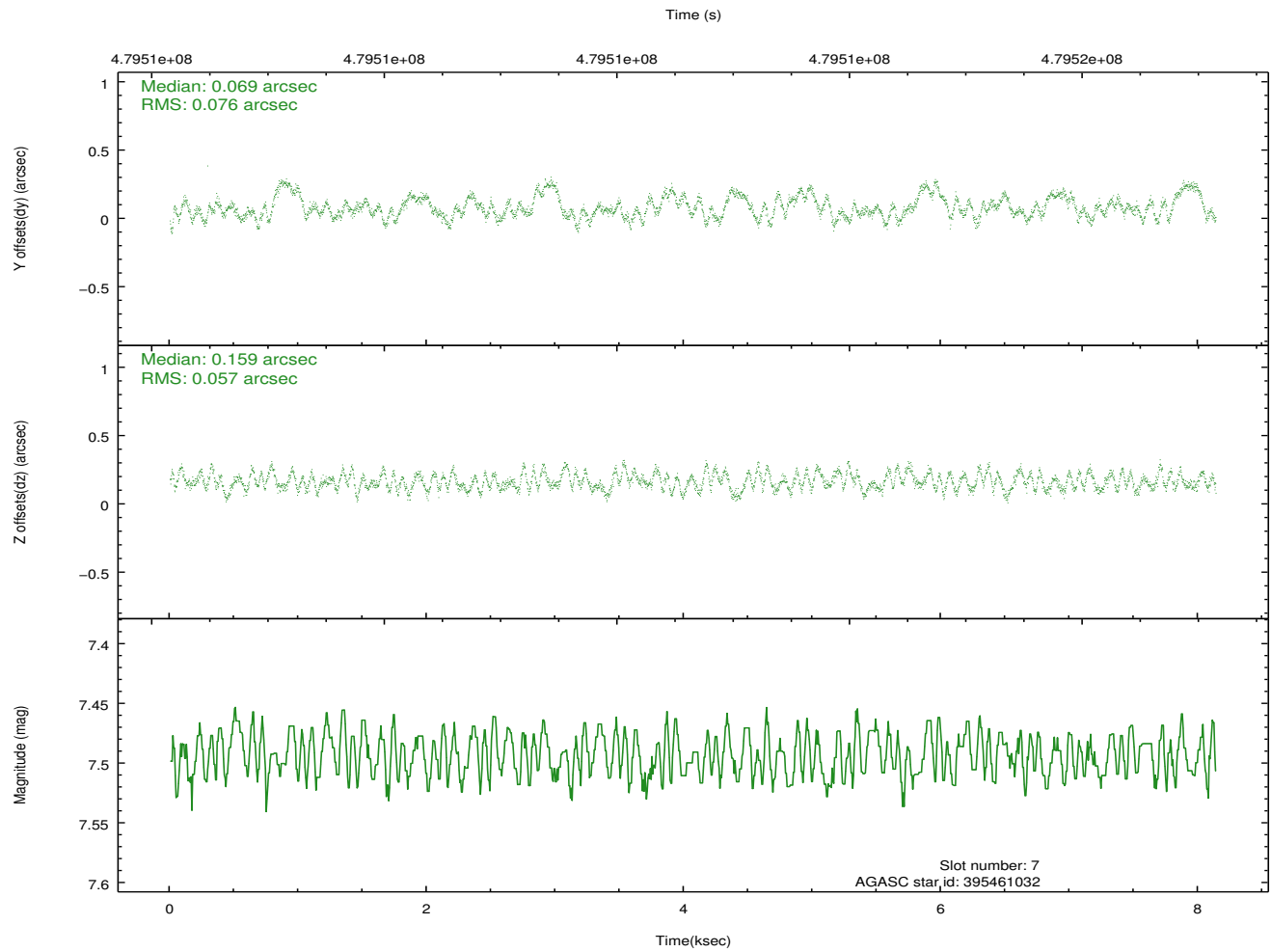
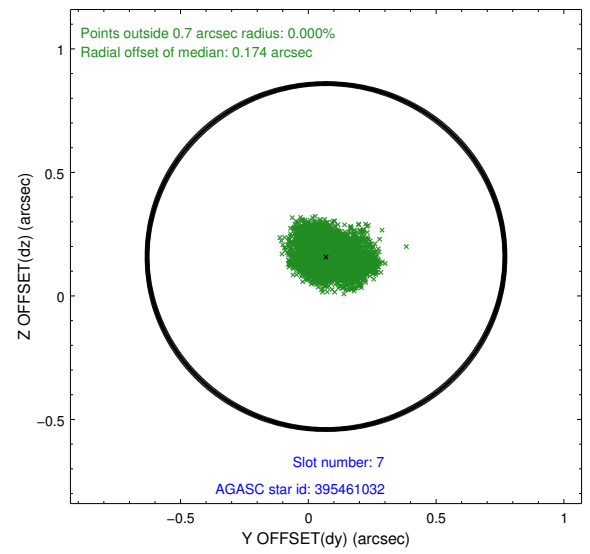
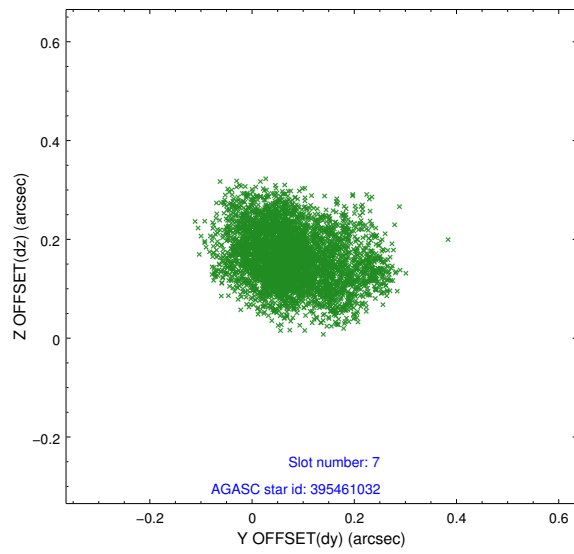
2.4.3 Slot 5



2.4.4 Slot 6

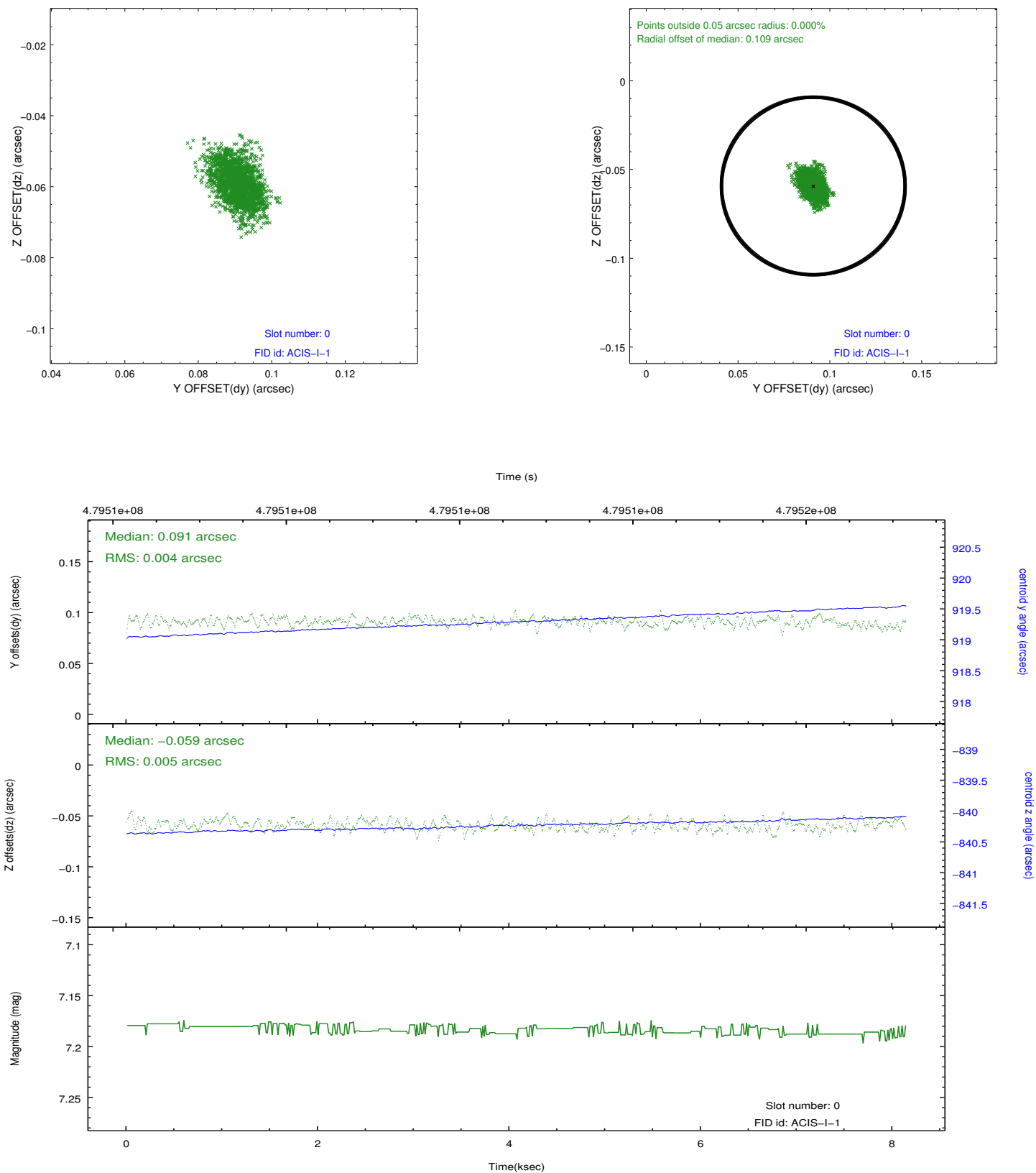


2.4.5 Slot 7

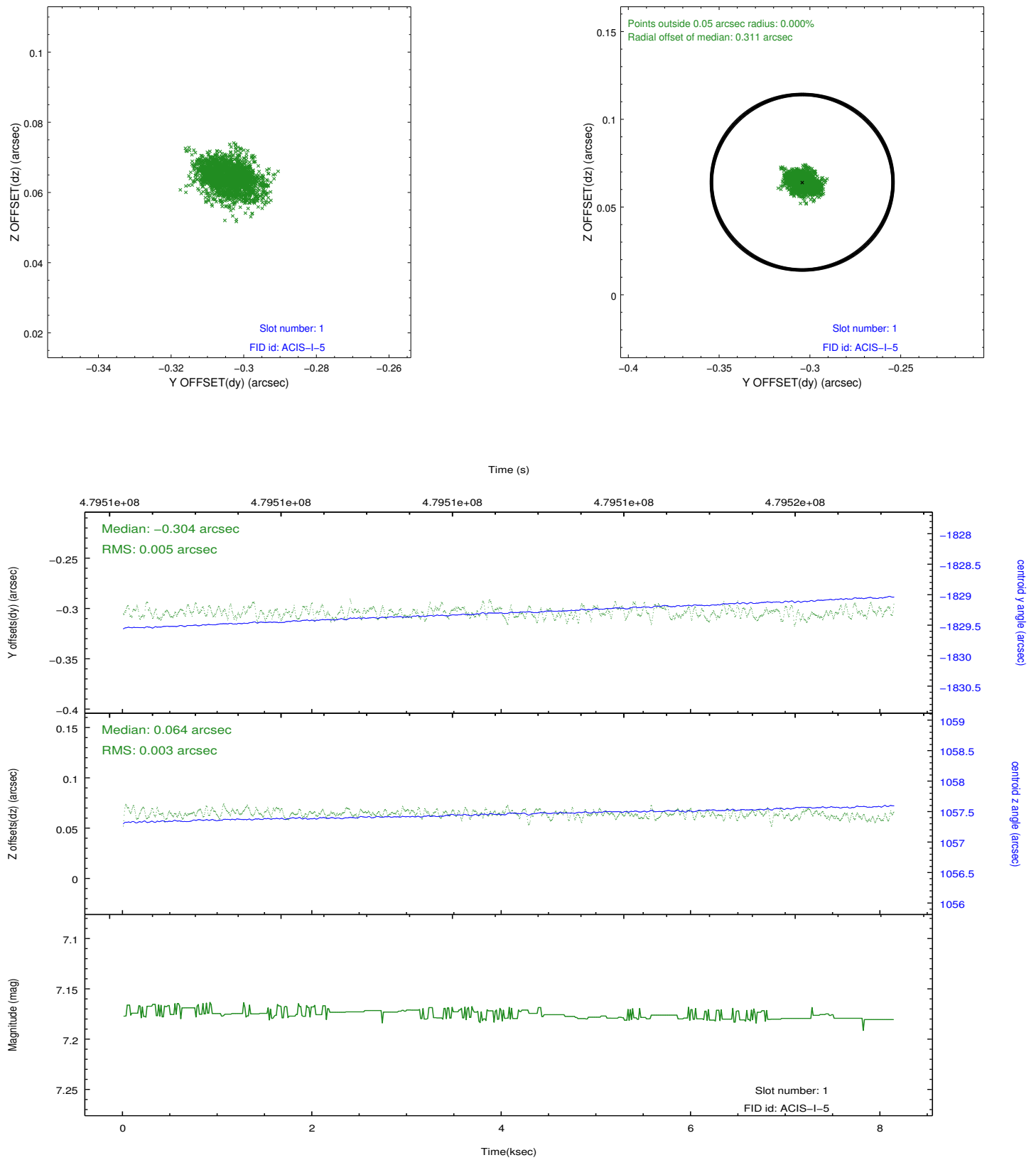


2.5 FID Slots

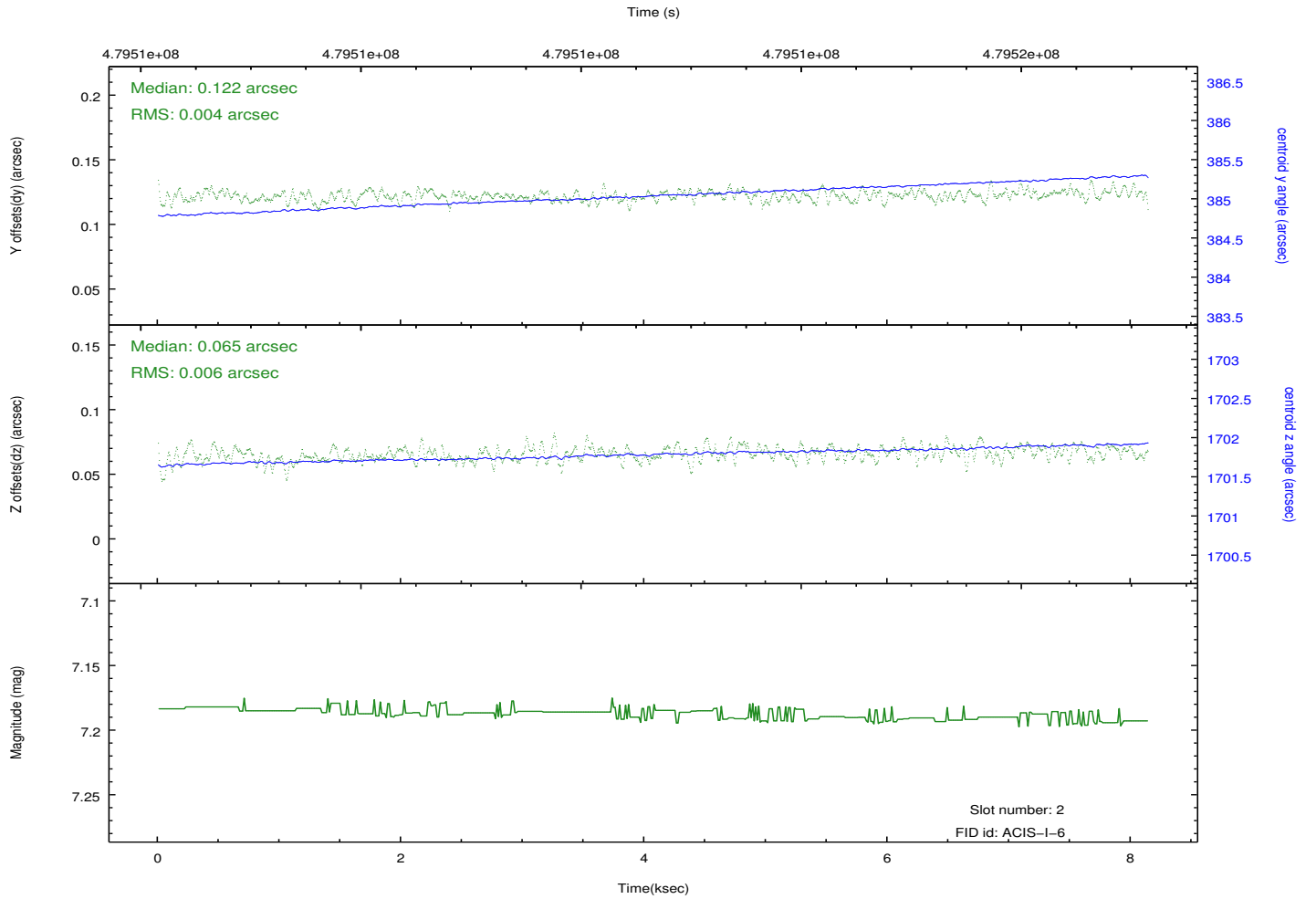
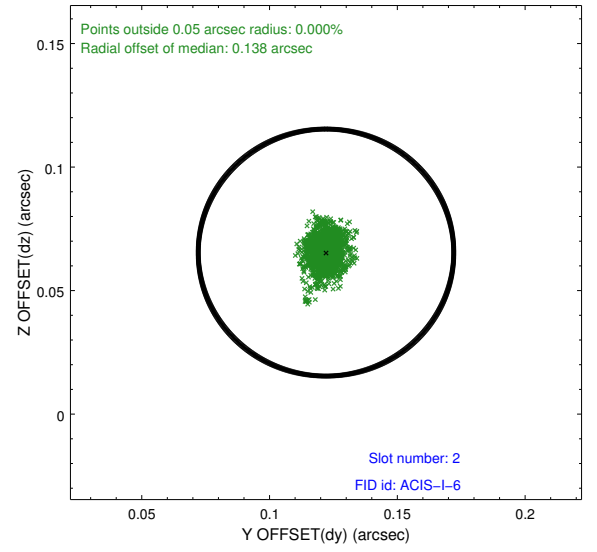
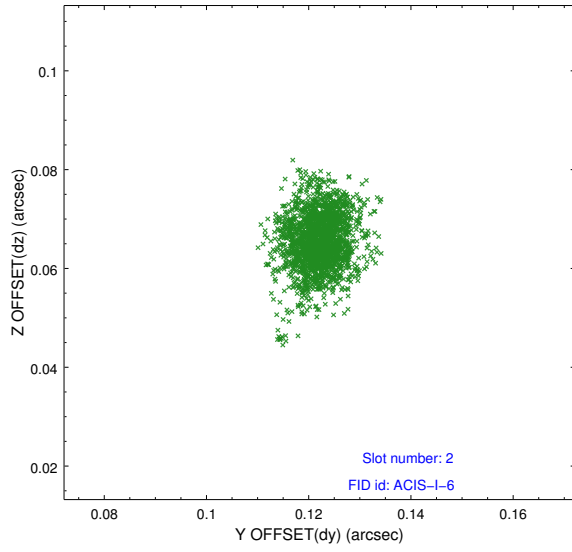
2.5.1 Slot 0



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)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0834238164425

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.