

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 13801 - L2 Version 2
Chandra X-Ray Center

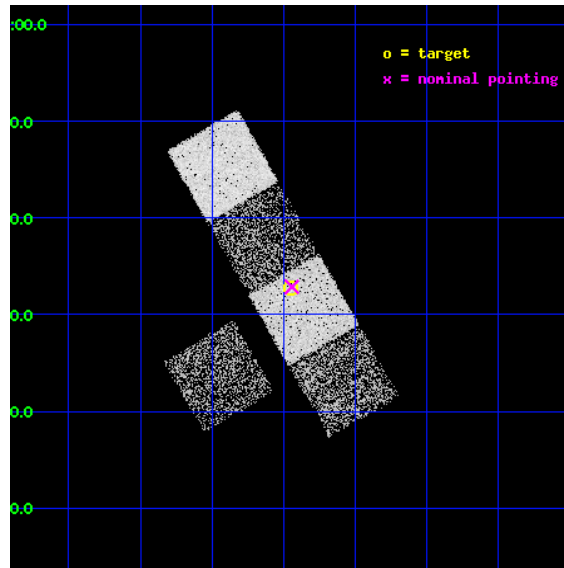
L2 Processing Date : Jan 19 2012

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1 Front

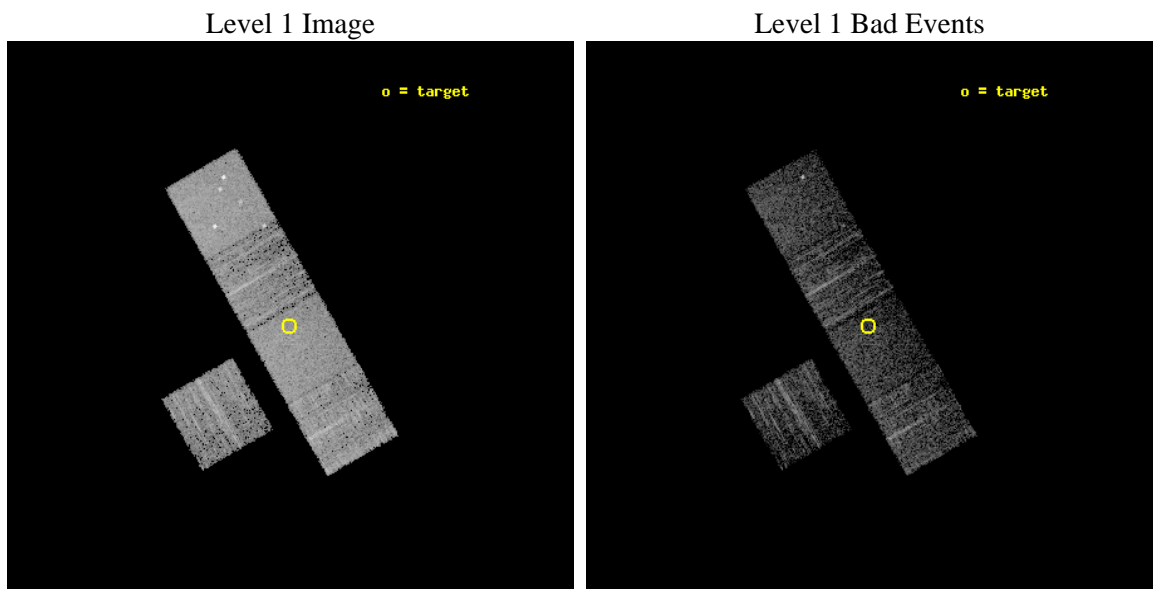
seq_num	501633	Sequence number
obs_id	13801	Observation id
title	A CASE OF MISTAKEN IDENTITY: DISRUPTED RECYCLED PULSARS OR ORPHANED ANTI-MAGNETARS?	Proposal title
observer	Prof. Dr. Bruce Allen	Principal investigator
object	PSR J1038+0032	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	159.612083	Observer's specified target RA [deg]
dec_targ	0.545444	Observer's specified target Dec [deg]
ra_nom	159.61057804321	Nominal RA [deg]
dec_nom	0.54801599436368	Nominal Dec [deg]
roll_nom	60.182327939497	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3542.4748908281	Sum of GTIs [s]
livetime	3496.1898484474	Livetime [s]
ontime3	3542.3517708182	Sum of GTIs [s]
ontime5	3542.4338508248	Sum of GTIs [s]
ontime6	3542.3928108215	Sum of GTIs [s]
ontime7	3542.4748908281	Sum of GTIs [s]
ontime8	3542.3107308149	Sum of GTIs [s]
l2events	36133	Number of level 2 events



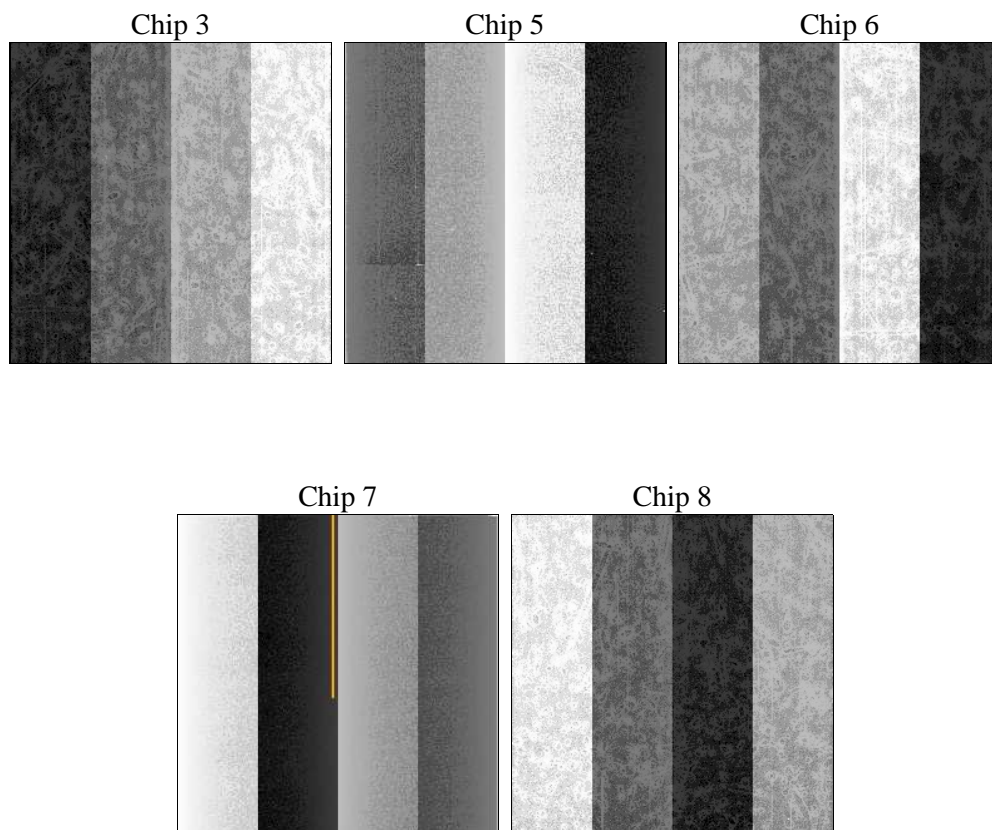
2 OBI

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	3542.4748908281	Sum of GTIs [s]
caldsver	4.4.7	 	ontime3	3542.3517708182	Sum of GTIs [s]
date	2012-01-19T14:58:22	Date and time of file creation	ontime5	3542.4338508248	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3542.3928108215	Sum of GTIs [s]
			ontime7	3542.4748908281	Sum of GTIs [s]
			ontime8	3542.3107308149	Sum of GTIs [s]
			l1events	142800	Number of level 1 events

2.1.4 Events

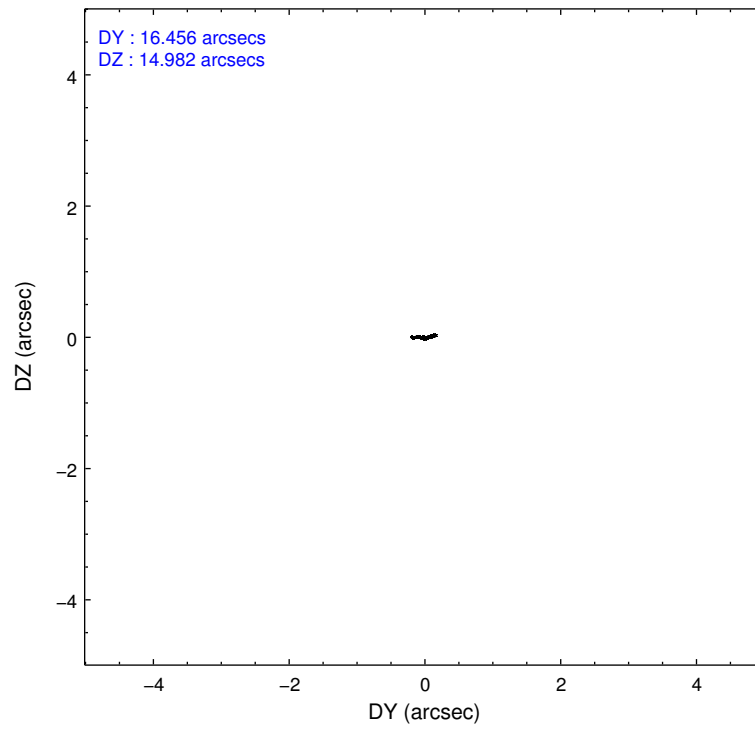
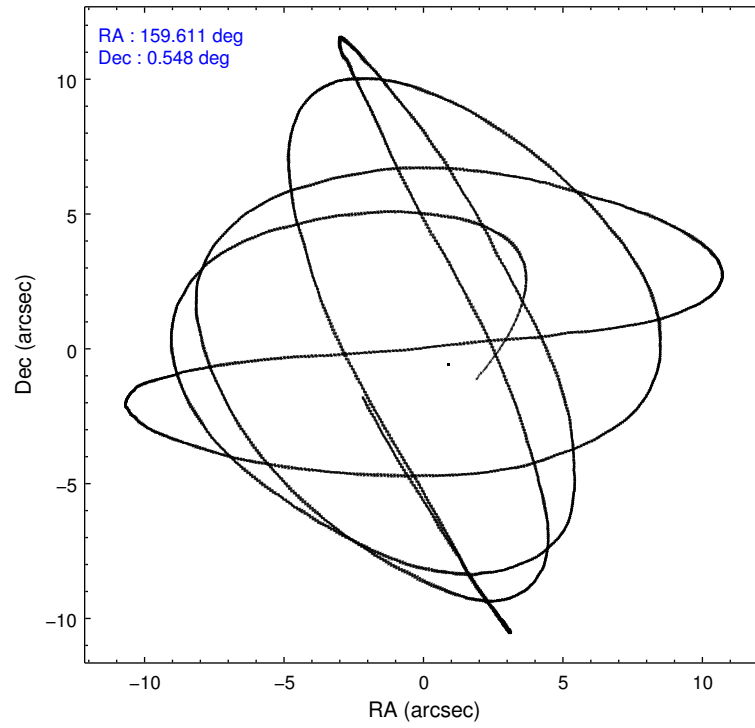
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	21652	38228	23247	29271	30402
rejected events	19214	18978	20609	16428	21779
rejected %	88%	49%	88%	56%	71%

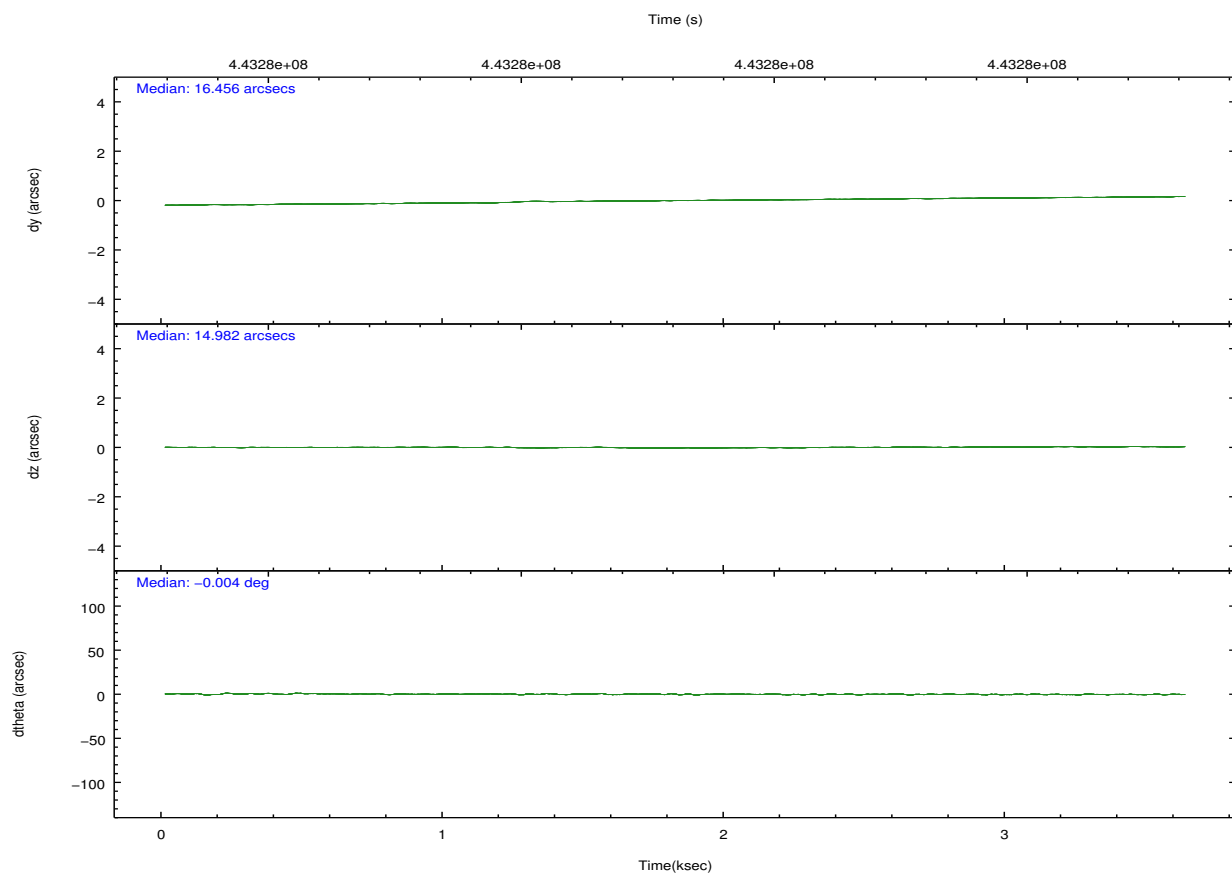
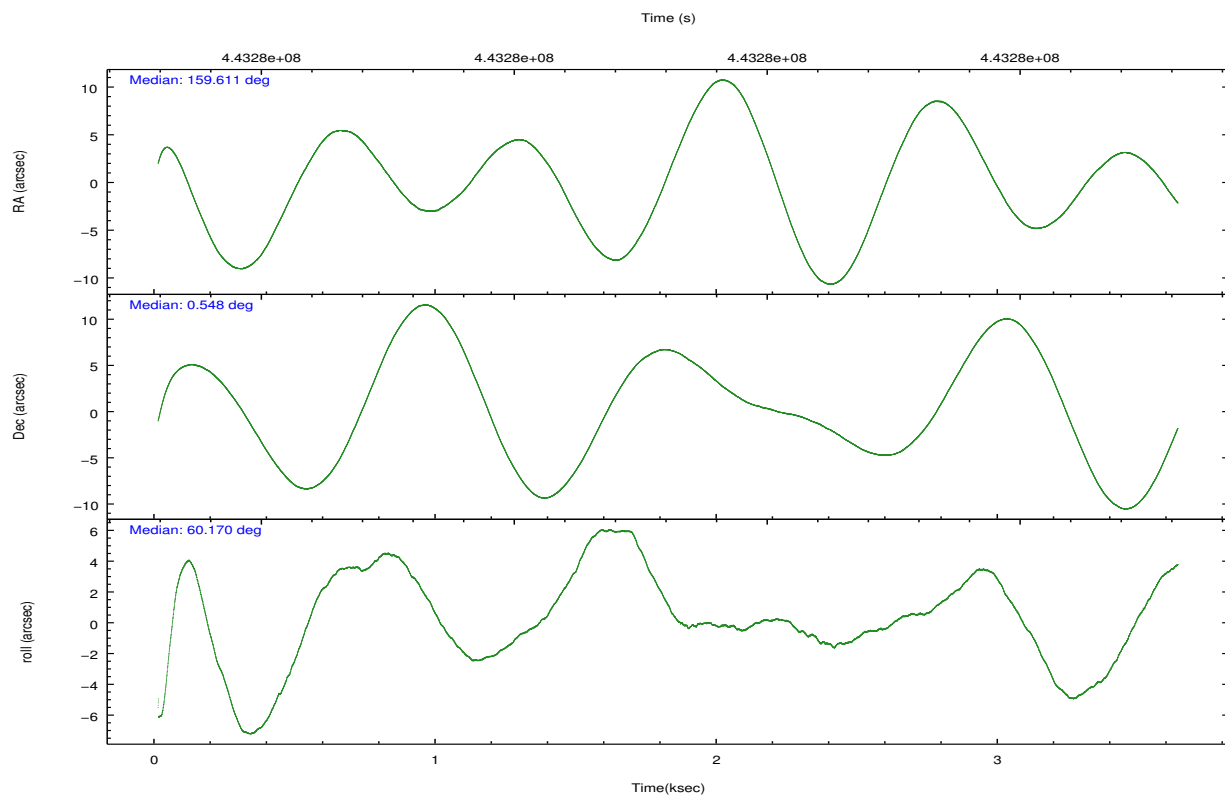
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	796	2823	894	1147	2587
	3%	7%	3%	3%	8%
grade 1 events	12	105	13	47	26
	0%	0%	0%	0%	0%
grade 2 events	554	5953	623	2568	1862
	2%	15%	2%	8%	6%
grade 3 events	271	721	287	1128	1040
	1%	1%	1%	3%	3%
grade 4 events	259	647	272	1094	976
	1%	1%	1%	3%	3%
grade 5 events	1085	2720	1120	3124	1630
	5%	7%	4%	10%	5%
grade 6 events	559	9125	562	6913	2159
	2%	23%	2%	23%	7%
grade 7 events	18116	16134	19476	13250	20122
	83%	42%	83%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	159.611144	159.6105780432114	CCD I2 on	O1	N
[deg] Pointing Dec	0.520783	0.5480159943636785	CCD I3 on	O2	Y
[deg] Pointing Roll	60.025742	60.18232793949688	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	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	443278927.184000	443277820.32588	CCD S5 on	N	N
Observation start date	2012-01-18T13:01:01	2012-01-18T12:43:40	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	443282427.184000	443282898.68865	On-chip summing requested	N	N
Observation end date	2012-01-18T13:59:21	2012-01-18T14:08:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



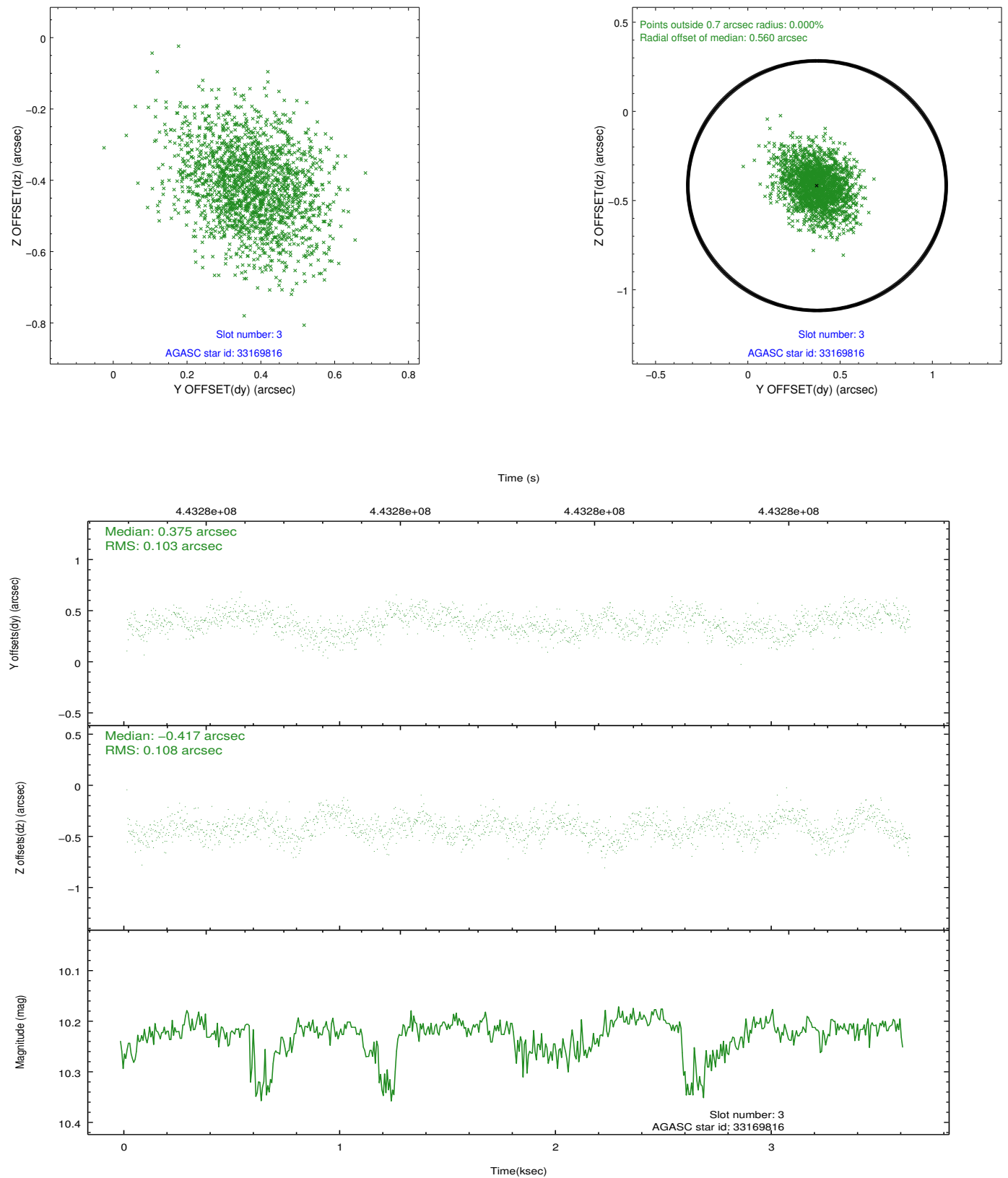


Slot Statistics

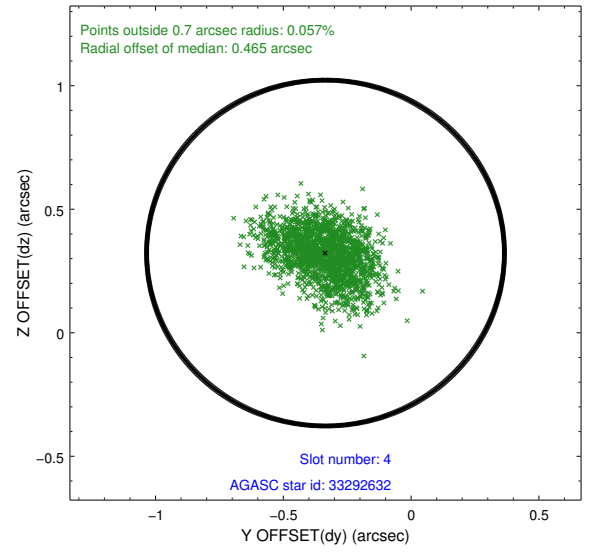
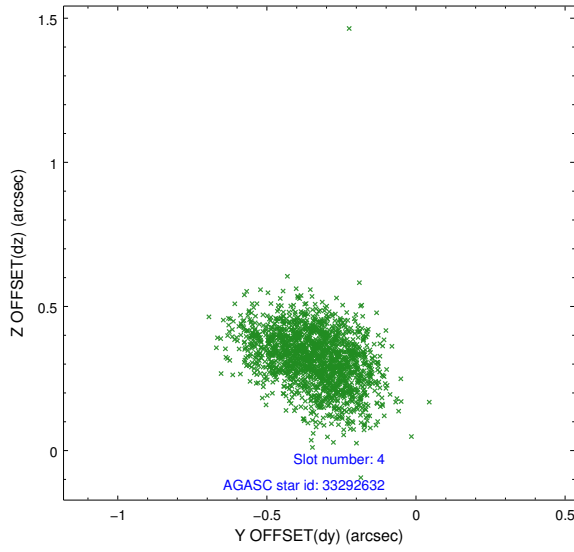
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.87	885	-0.108	0.003	0.006	0.010	0.000000	0.000000	-769.56	-1736.36
1	FID	ACIS-S-4	6.96	885	0.208	0.051	0.005	0.011	0.000000	0.000000	2143.23	170.38
2	FID	ACIS-S-5	6.99	885	-0.131	-0.046	0.006	0.010	0.000000	0.000000	-1820.21	165.92
3	GUIDE	33169816	10.22	1770	0.375	-0.417	0.160	0.260	158.786732	0.370084	-1952.47	2299.36
4	GUIDE	33292632	9.85	1758	-0.335	0.323	0.158	0.257	160.006920	0.869927	1799.90	-603.80
5	GUIDE	33293624	9.02	1768	0.024	0.250	0.111	0.173	160.058960	0.132504	-403.30	-2094.79
6	GUIDE	33294800	9.29	1768	-0.063	-0.150	0.108	0.172	160.198736	0.510111	1024.33	-1852.34
7	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

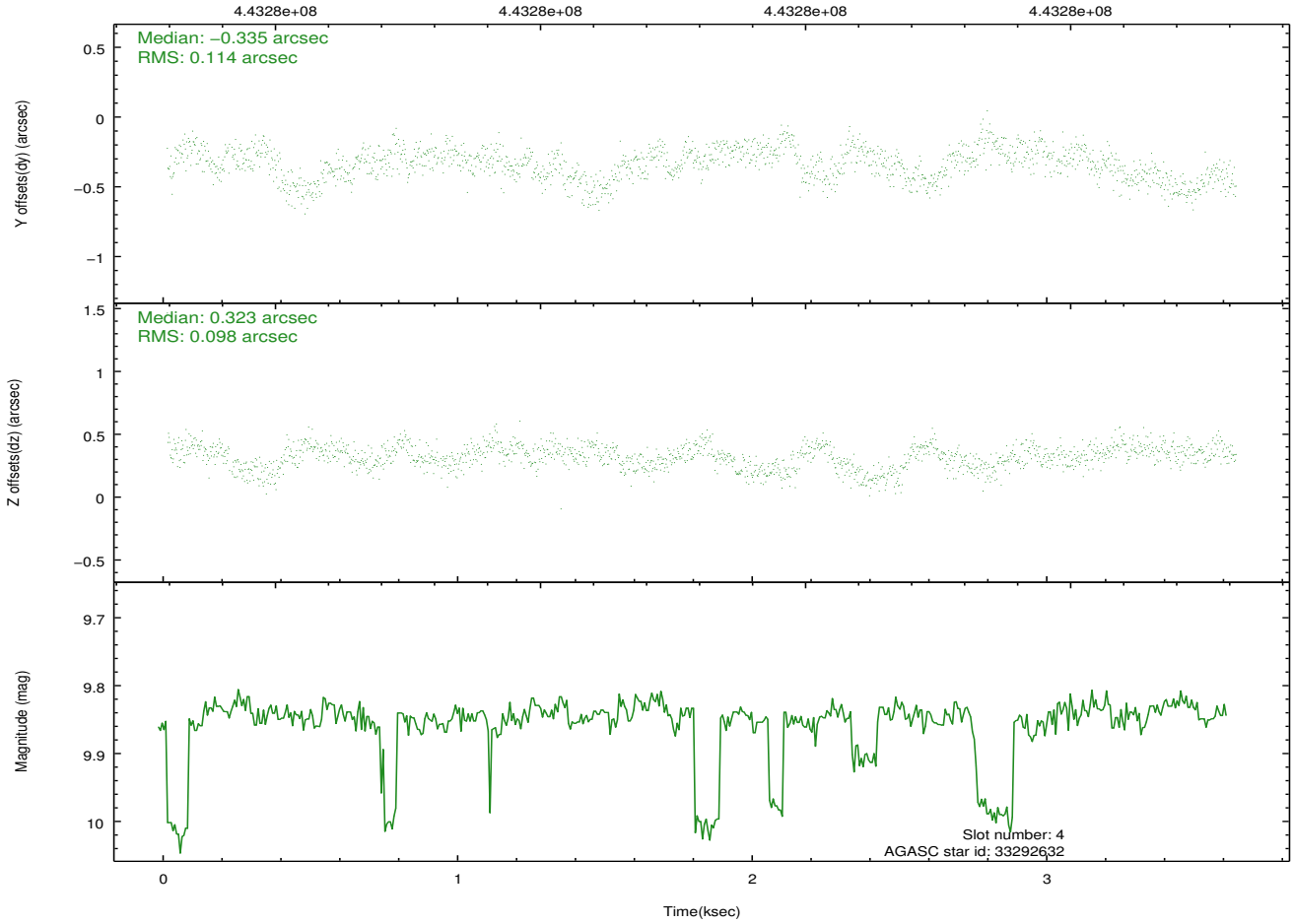
2.4.1 Slot 3



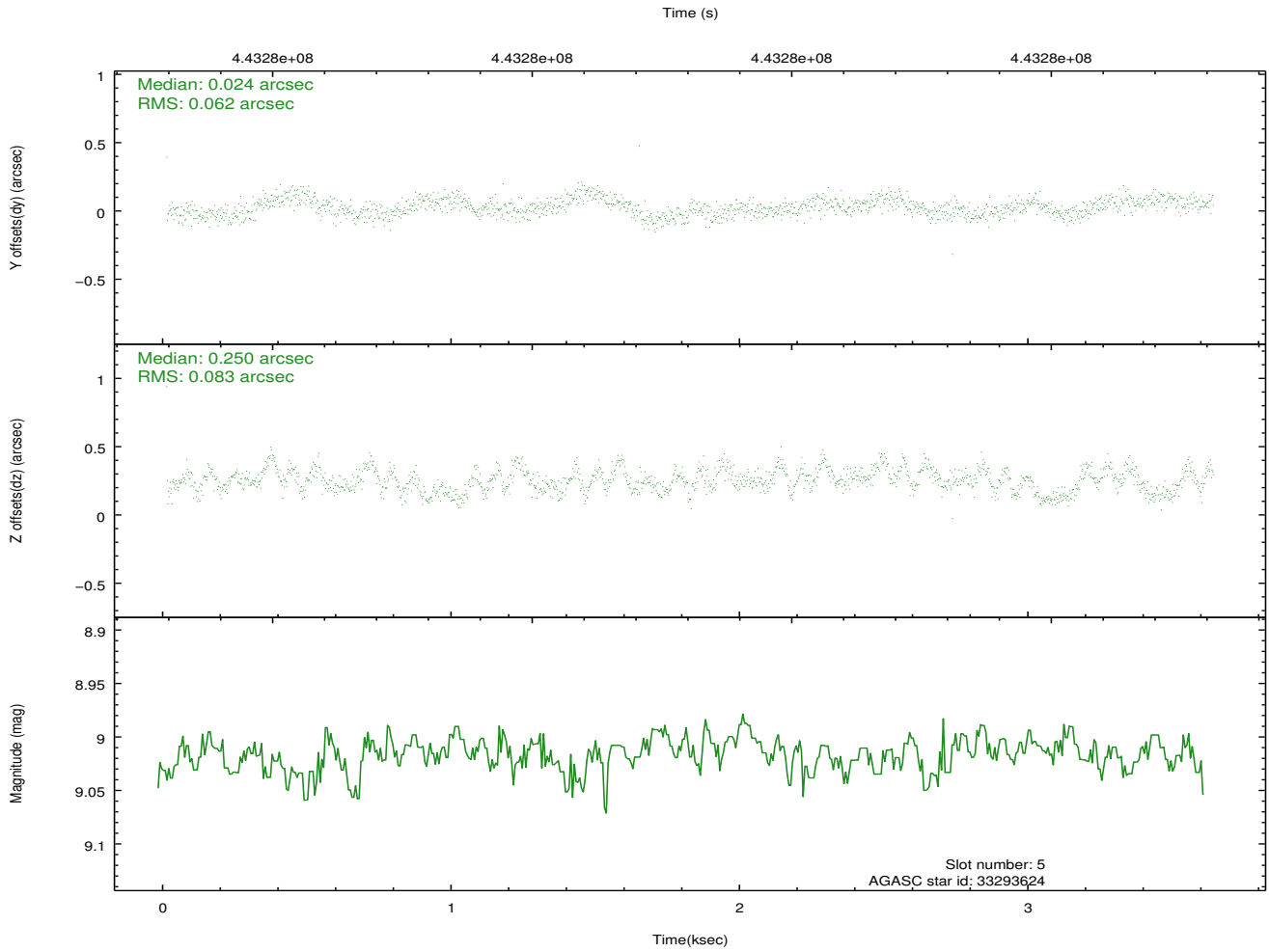
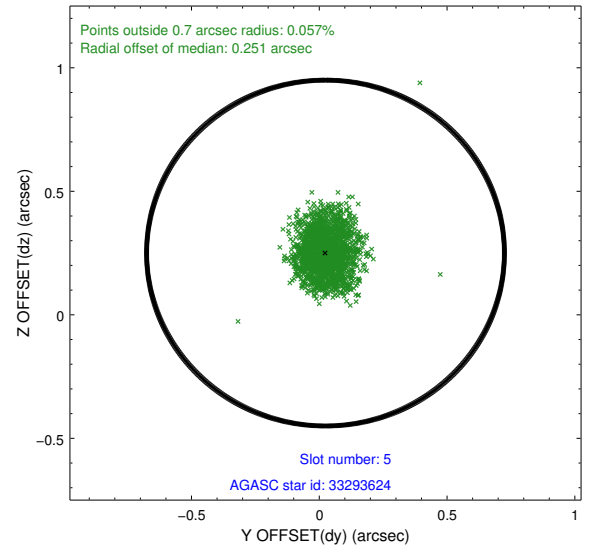
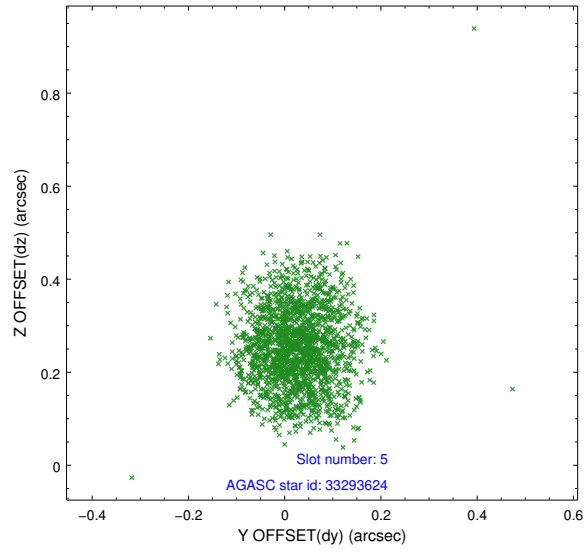
2.4.2 Slot 4



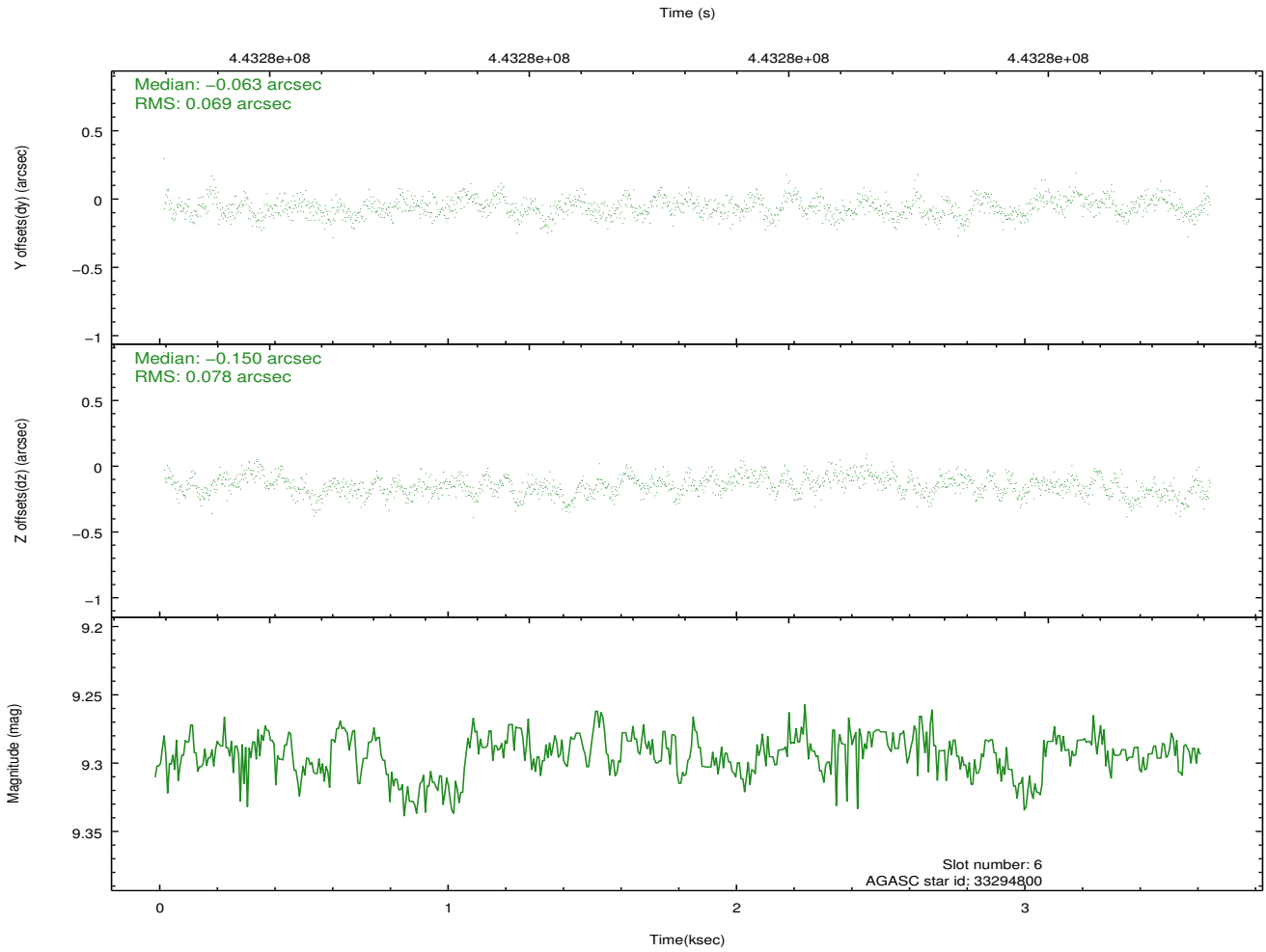
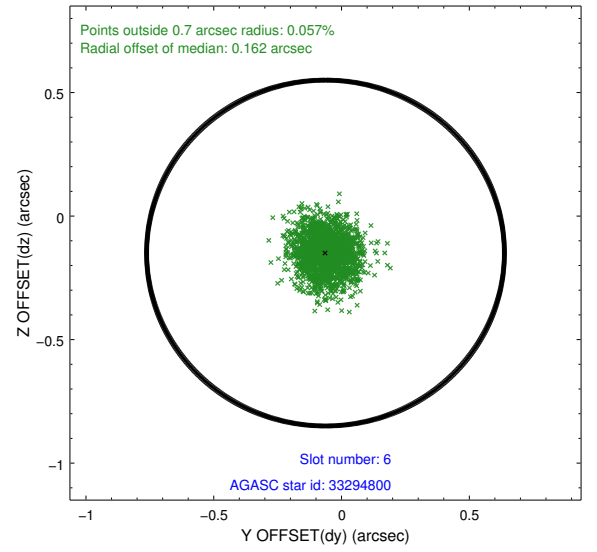
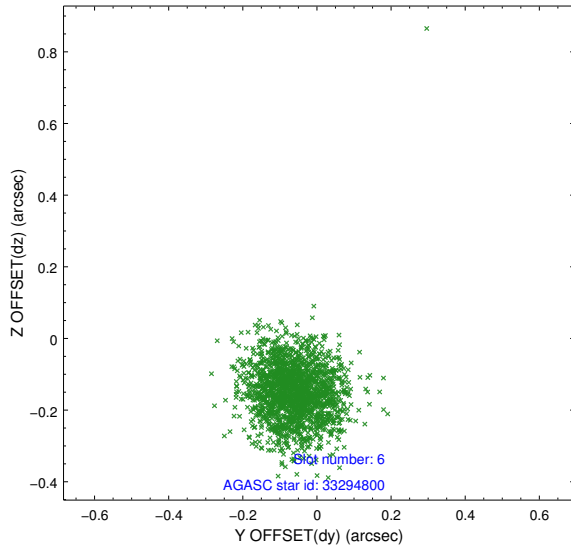
Time (s)



2.4.3 Slot 5

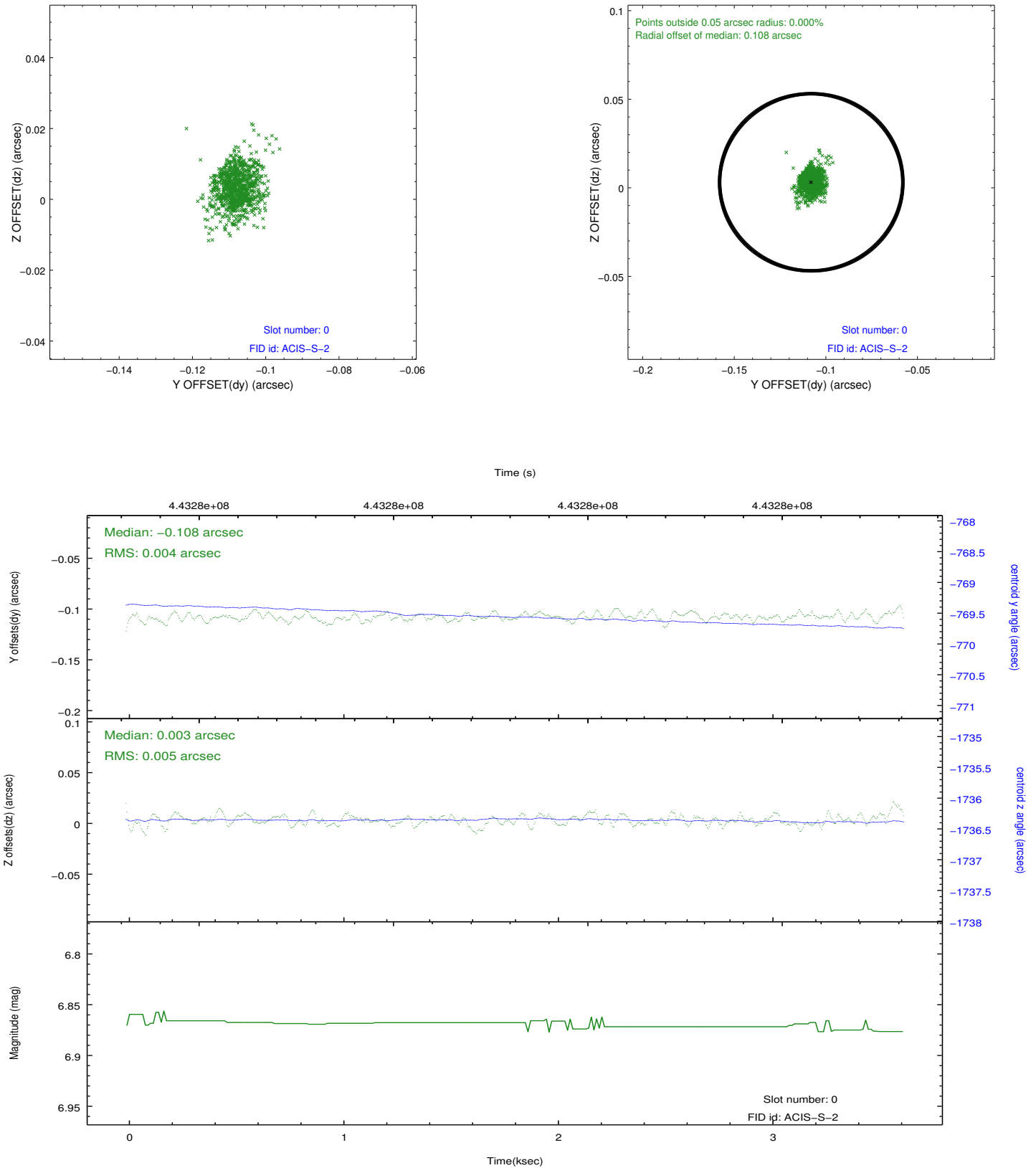


2.4.4 Slot 6

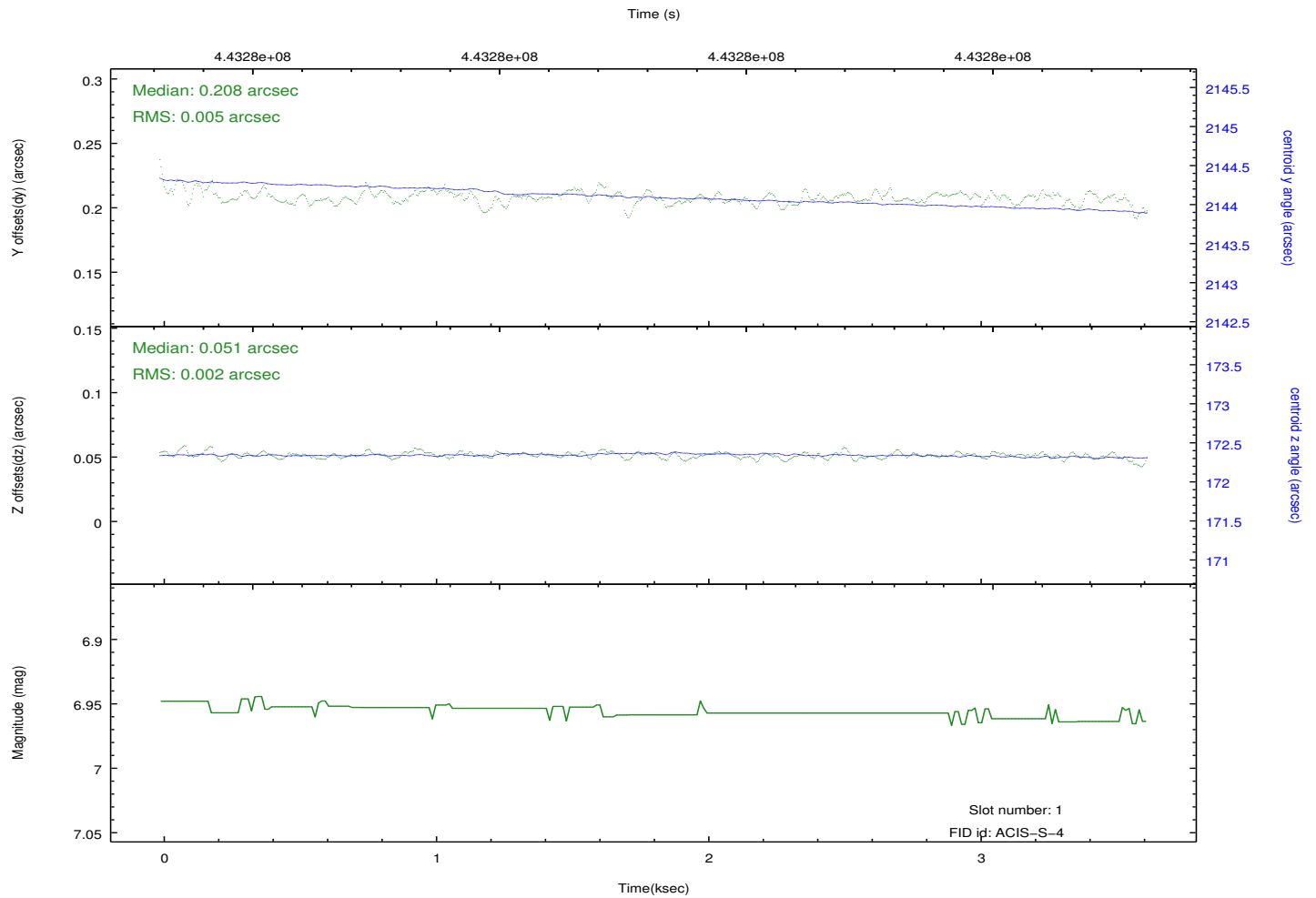
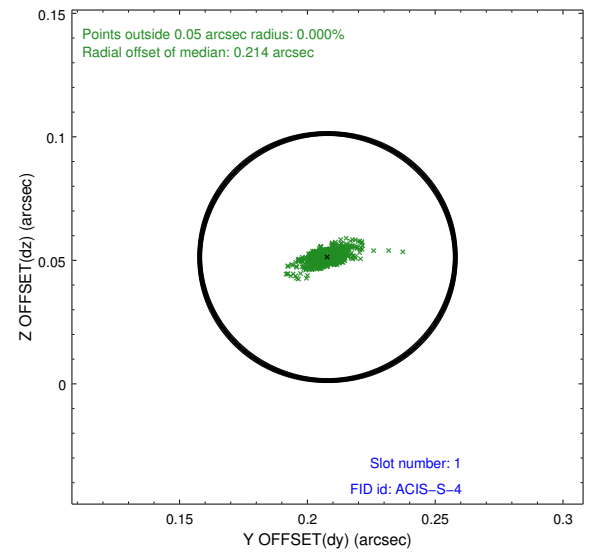
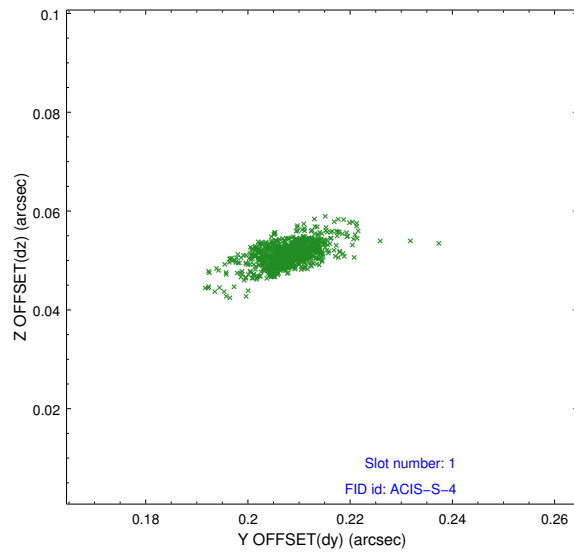


2.5 FID Slots

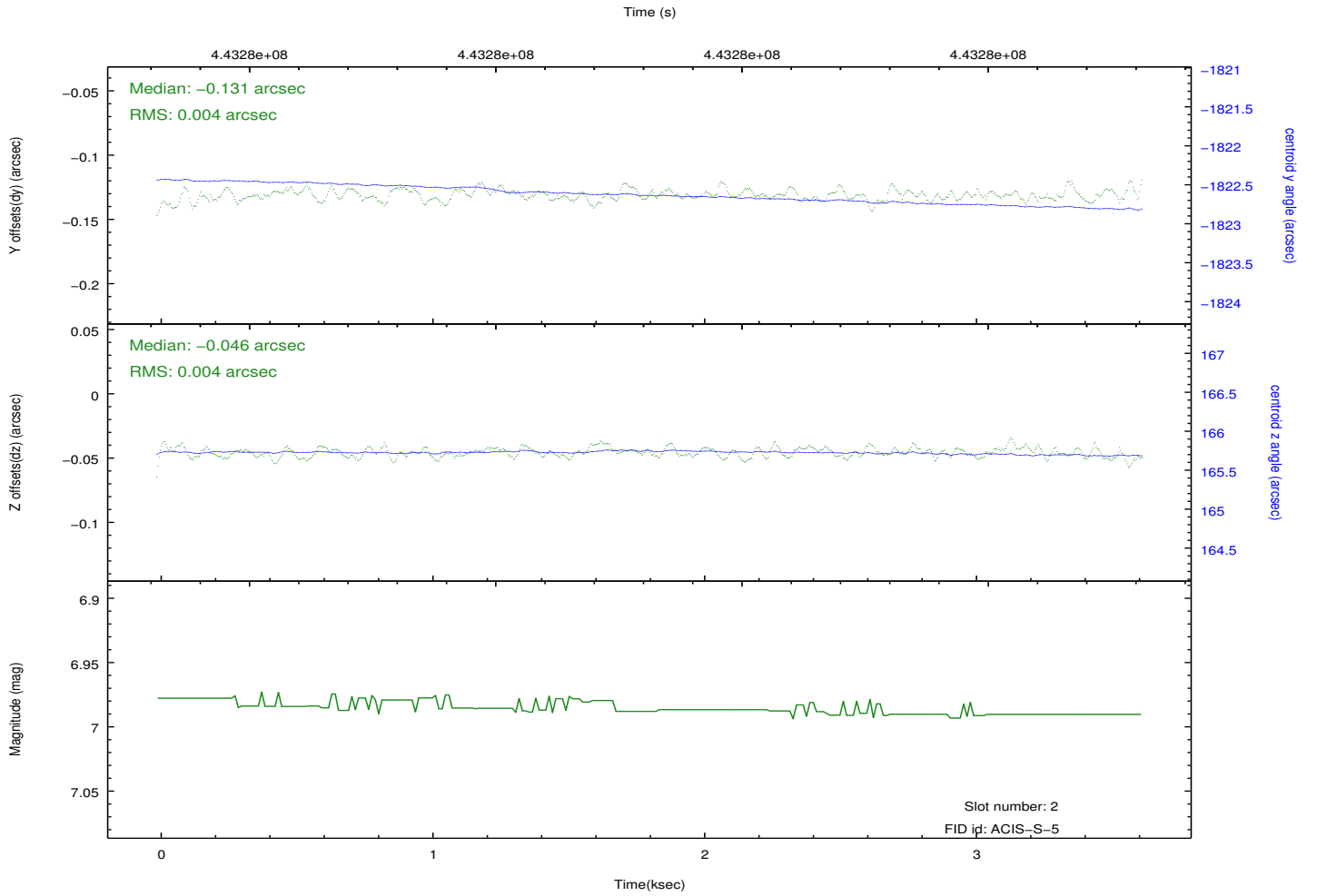
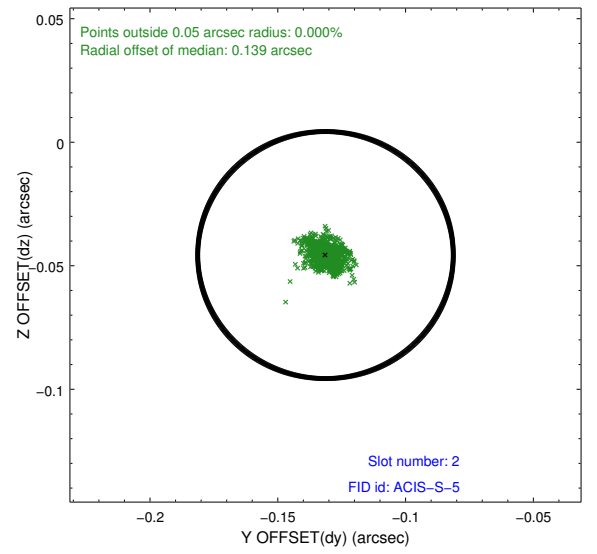
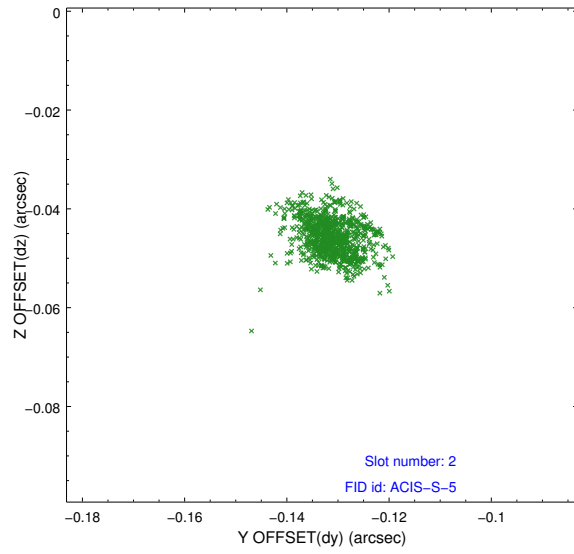
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.01.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.5424748908281

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by removing this guide star from the solution.