

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 16238 - L2 Version 1
Chandra X-Ray Center

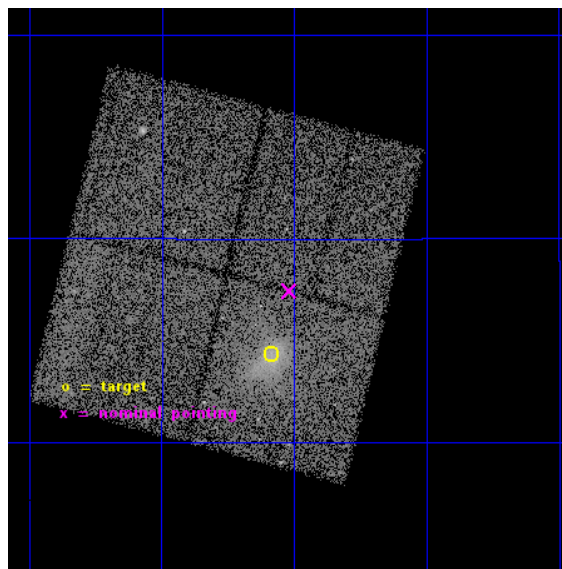
L2 Processing Date : Feb 10 2015

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1 Front

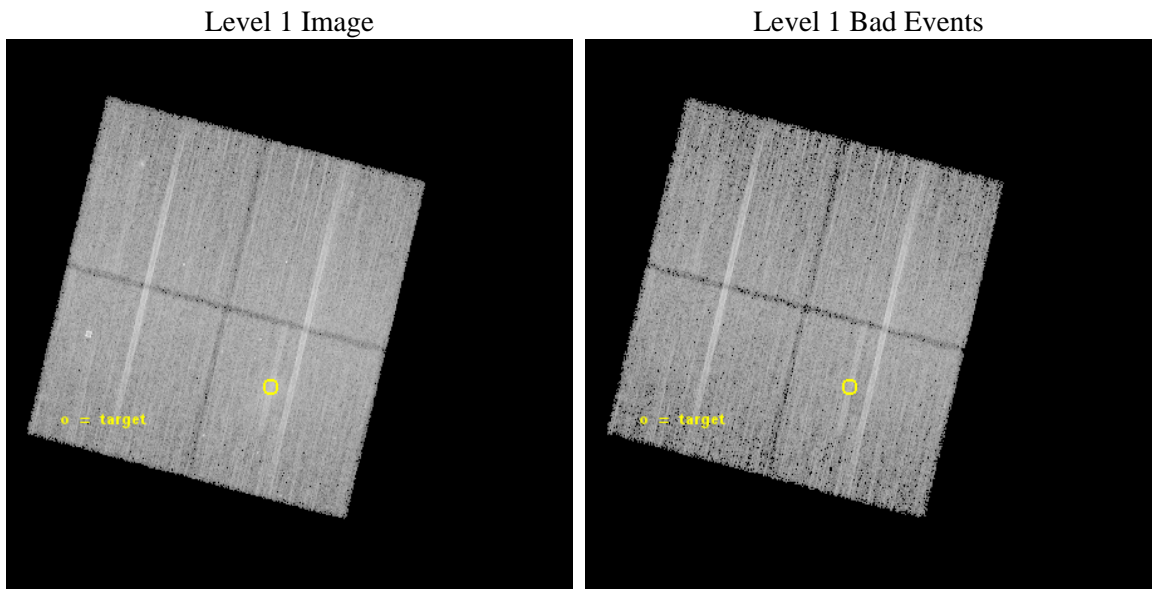
seq_num	801419	Sequence number
obs_id	16238	Observation id
title	Clusters, Galaxies, and AGN in HST Frontier Fields	Proposal title
observer	Dr. Christine Jones	Principal investigator
object	MACSJ1149.5+2223	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	177.39625	Observer's specified target RA [deg]
dec_targ	22.405111	Observer's specified target Dec [deg]
ra_nom	177.37937547913	Nominal RA [deg]
dec_nom	22.457376085814	Nominal Dec [deg]
roll_nom	104.21511154139	Nominal Roll [deg]
revision	1	Processing version of data
ontime	36090.200277686	Sum of GTIs [s]
livetime	35618.655241839	Livetime [s]
ontime0	36090.200277686	Sum of GTIs [s]
ontime1	36090.200277686	Sum of GTIs [s]
ontime2	36087.059196949	Sum of GTIs [s]
ontime3	36090.200277686	Sum of GTIs [s]
l2events	78828	Number of level 2 events



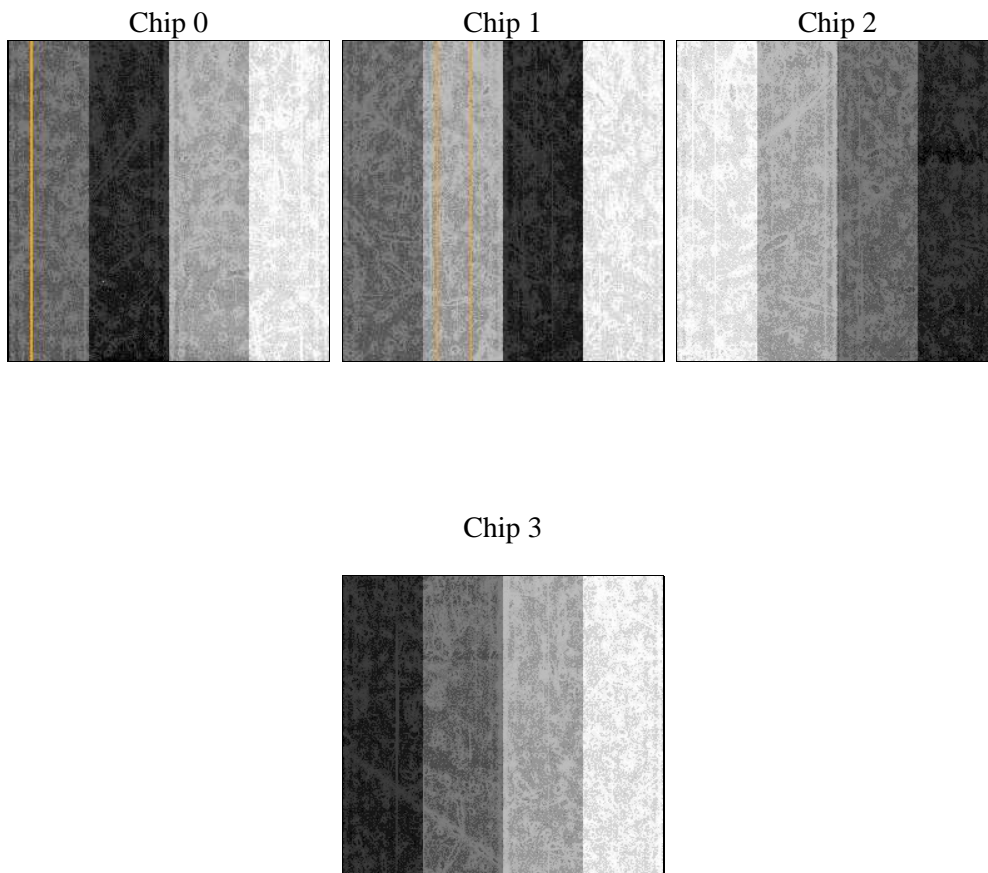
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	36010.089000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	36090.200277686	Sum of GTIs [s]
caldsver	4.6.6	 	ontime0	36090.200277686	Sum of GTIs [s]
date	2015-02-10T05:23:29	Date and time of file creation	ontime1	36090.200277686	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	36087.059196949	Sum of GTIs [s]
			ontime3	36090.200277686	Sum of GTIs [s]
			l1events	713294	Number of level 1 events

2.1.4 Events

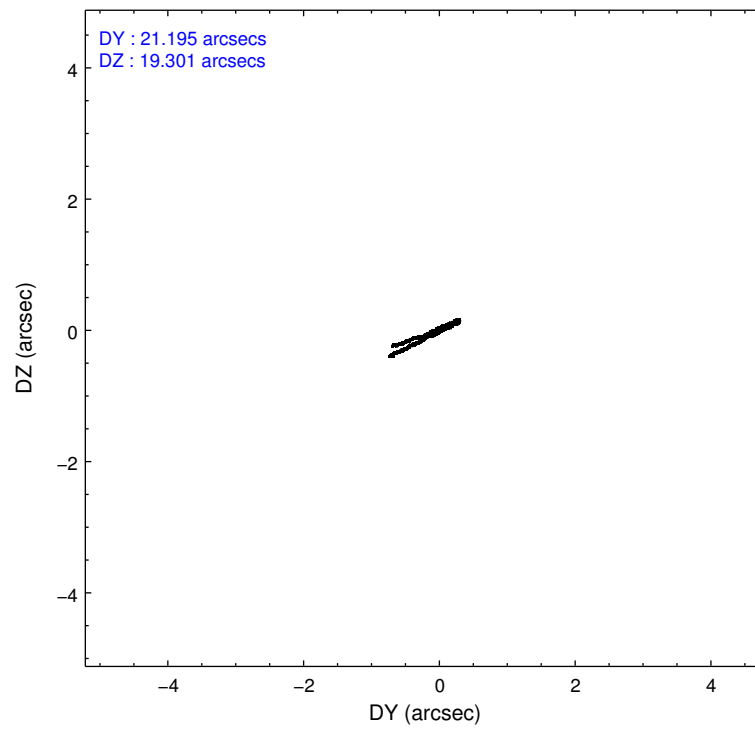
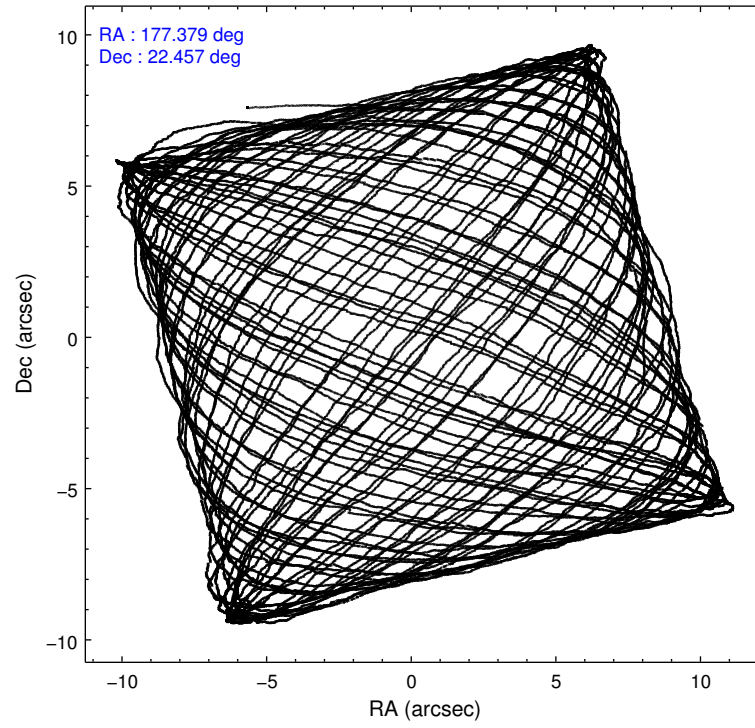
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	166364	172656	185116	189158
rejected events	145103	148555	164959	161143
rejected %	87%	86%	89%	85%

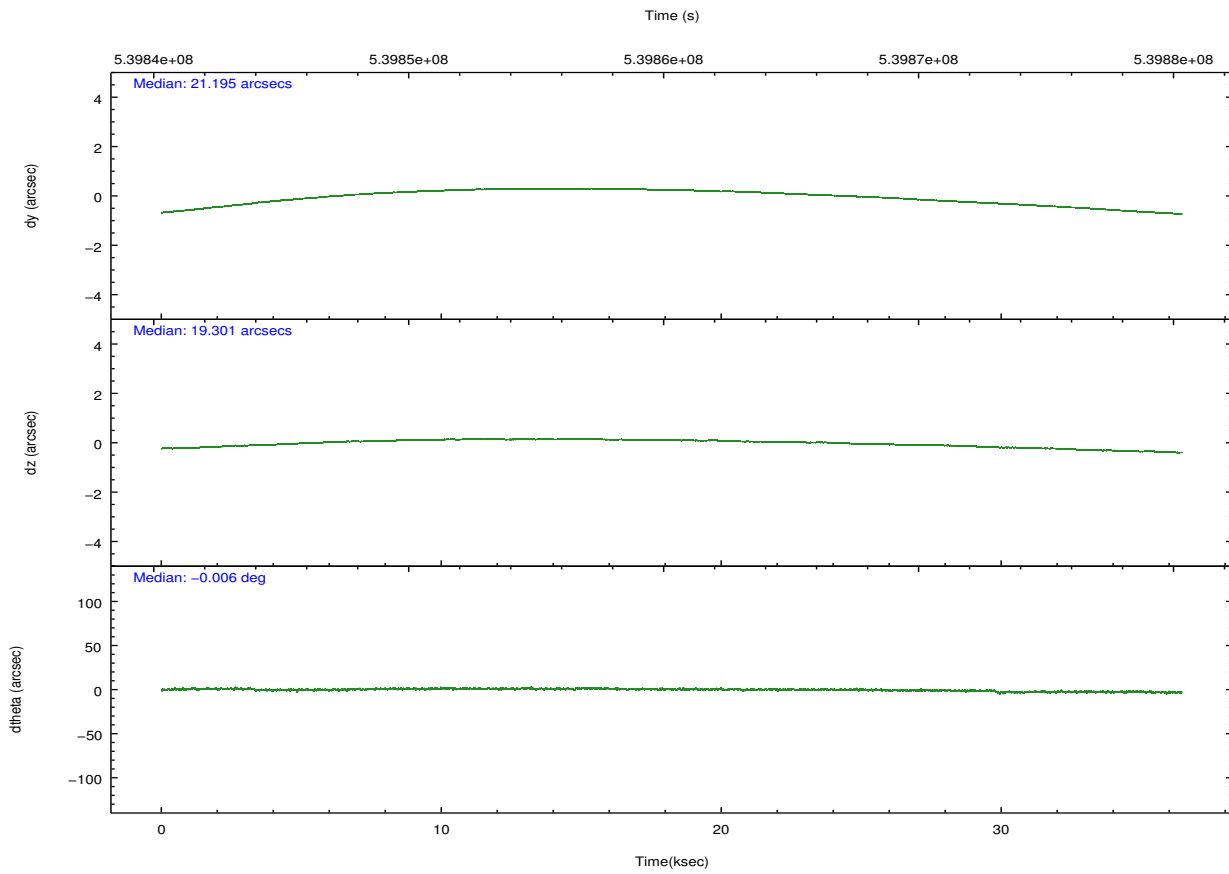
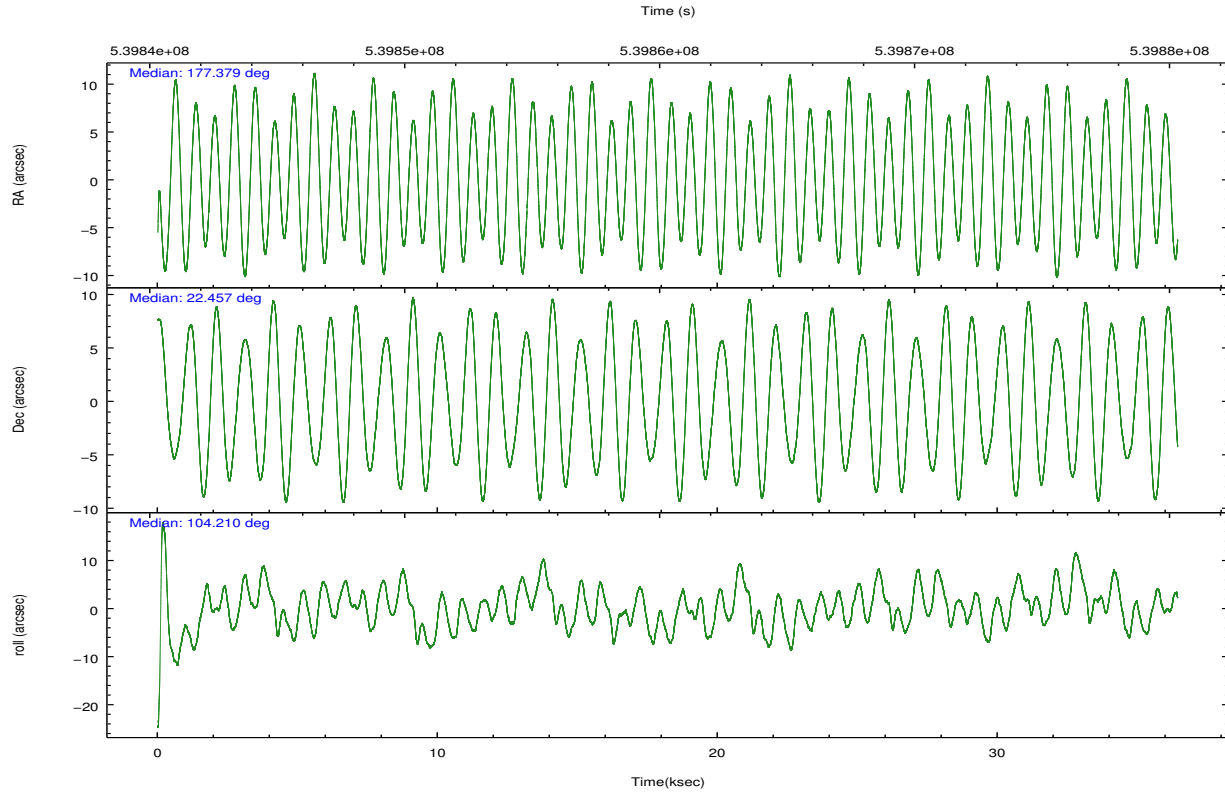
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	7323	8891	7219	13560
	4%	5%	3%	7%
grade 1 events	103	90	104	139
	0%	0%	0%	0%
grade 2 events	5208	5630	4882	5209
	3%	3%	2%	2%
grade 3 events	2302	2200	2099	2414
	1%	1%	1%	1%
grade 4 events	2045	2171	2030	2327
	1%	1%	1%	1%
grade 5 events	8018	8926	7744	9491
	4%	5%	4%	5%
grade 6 events	4383	5211	3929	4508
	2%	3%	2%	2%
grade 7 events	136982	139537	157109	151510
	82%	80%	84%	80%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	177.400301	177.3793754791279	CCD I2 on	Y	Y
[deg] Pointing Dec	22.437650	22.45737608581384	CCD I3 on	Y	Y
[deg] Pointing Roll	103.998457	104.2151115413942	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	N
[mm] SIM translation stage pos	-225.842463	-225.8458576473255	CCD S3 on	N	N
[mm] SIM translation stage offset	-7.75	-7.746595355604228	CCD S4 on	N	N
[s] Observation start time (MET)	539842550.184000	539841552.94092	CCD S5 on	N	N
Observation start date	2015-02-09T04:14:43	2015-02-09T03:59:12	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	539878560.184000	539878794.7805001	On-chip summing requested	N	N
Observation end date	2015-02-09T14:14:53	2015-02-09T14:19:54	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





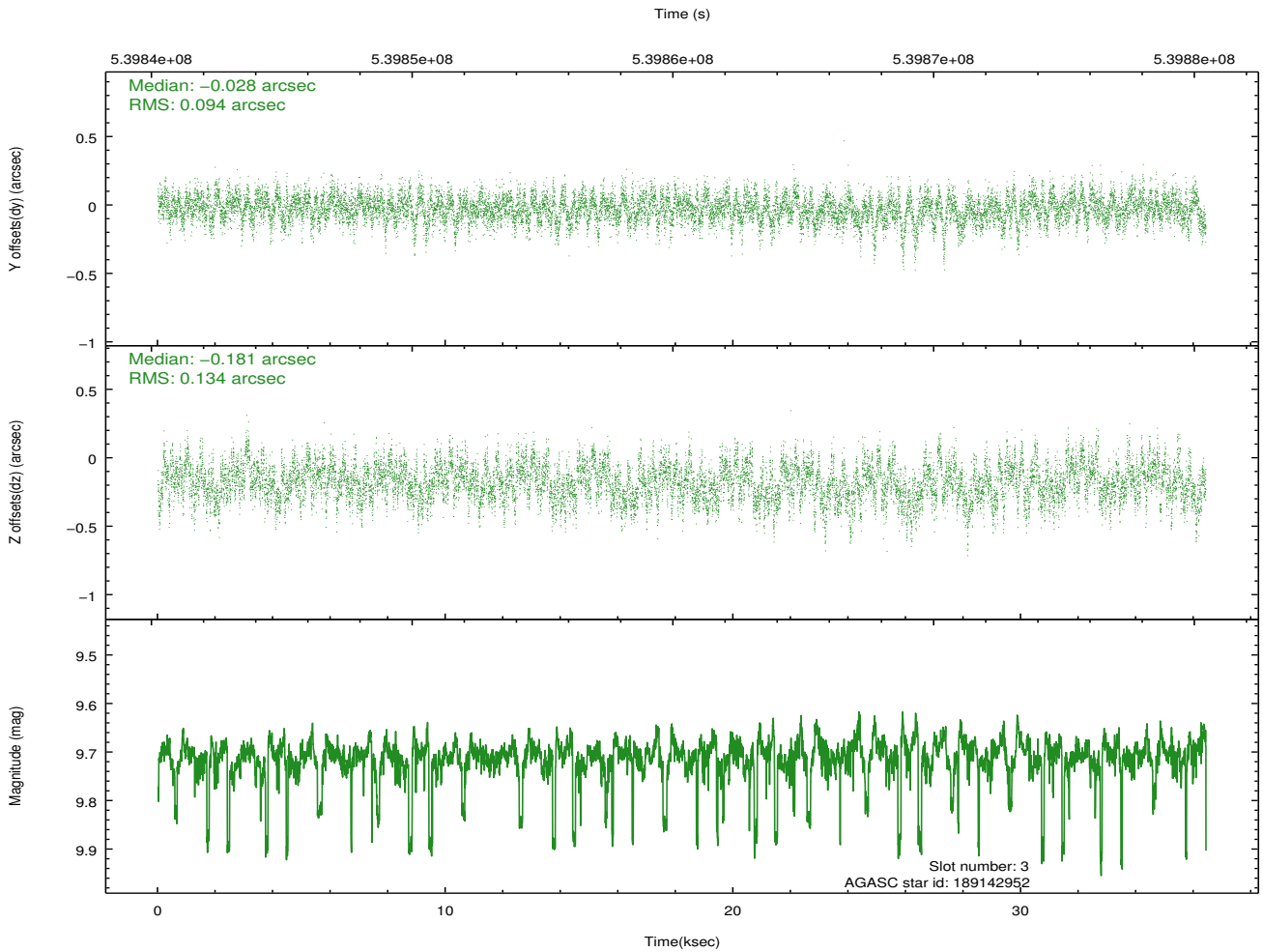
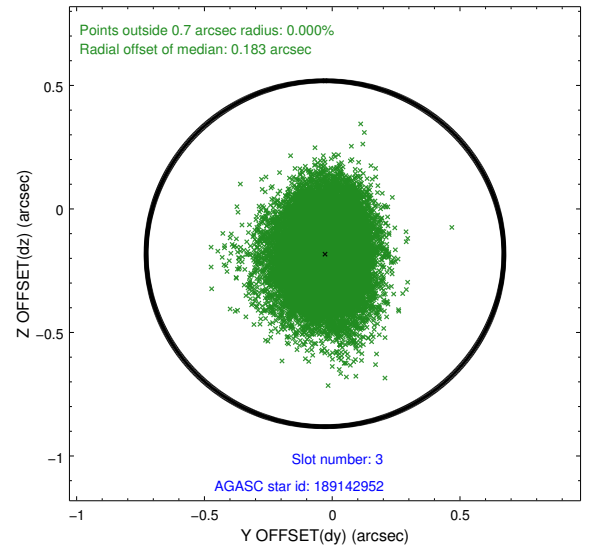
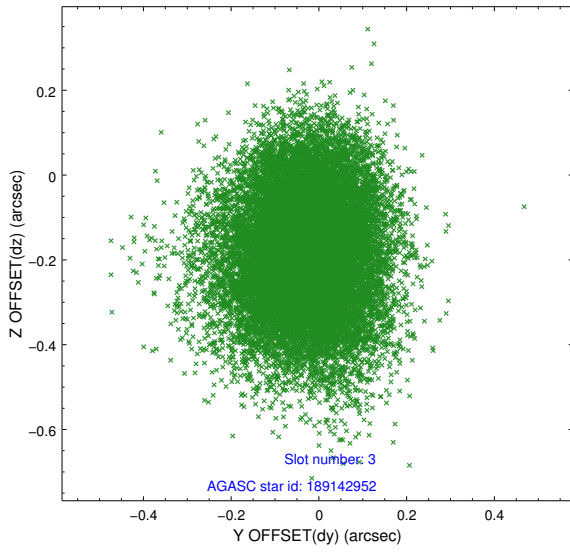
Slot Statistics

lot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.21	8885	0.074	-0.094	0.012	0.023	0.000000	0.000000	918.18	-1002.02
1	FID		ACIS-I-4	7.11	8884	0.250	0.055	0.018	0.032	0.000000	0.000000	2137.83	898.97
2	FID		ACIS-I-5	7.19	8885	-0.424	0.112	0.016	0.032	0.000000	0.000000	-1830.42	895.62
3	GUIDE	used	189142952	9.71	17749	-0.028	-0.181	0.174	0.284	177.368318	22.496408	231.10	53.18
4	GUIDE	used	189143696	9.56	17674	0.359	0.550	0.179	0.272	178.041363	22.456622	-444.74	-2086.02
5	GUIDE	used	189148592	9.35	17750	0.103	0.207	0.166	0.251	177.434258	22.088632	-1246.36	193.92
6	BAD	used	260186640	9.80	16890	-0.397	-0.251	0.165	0.277	176.898277	22.985190	2317.90	1137.02
7	GUIDE	used	189148400	9.56	17745	-0.055	-0.322	0.169	0.269	176.690054	22.445682	605.78	2284.42

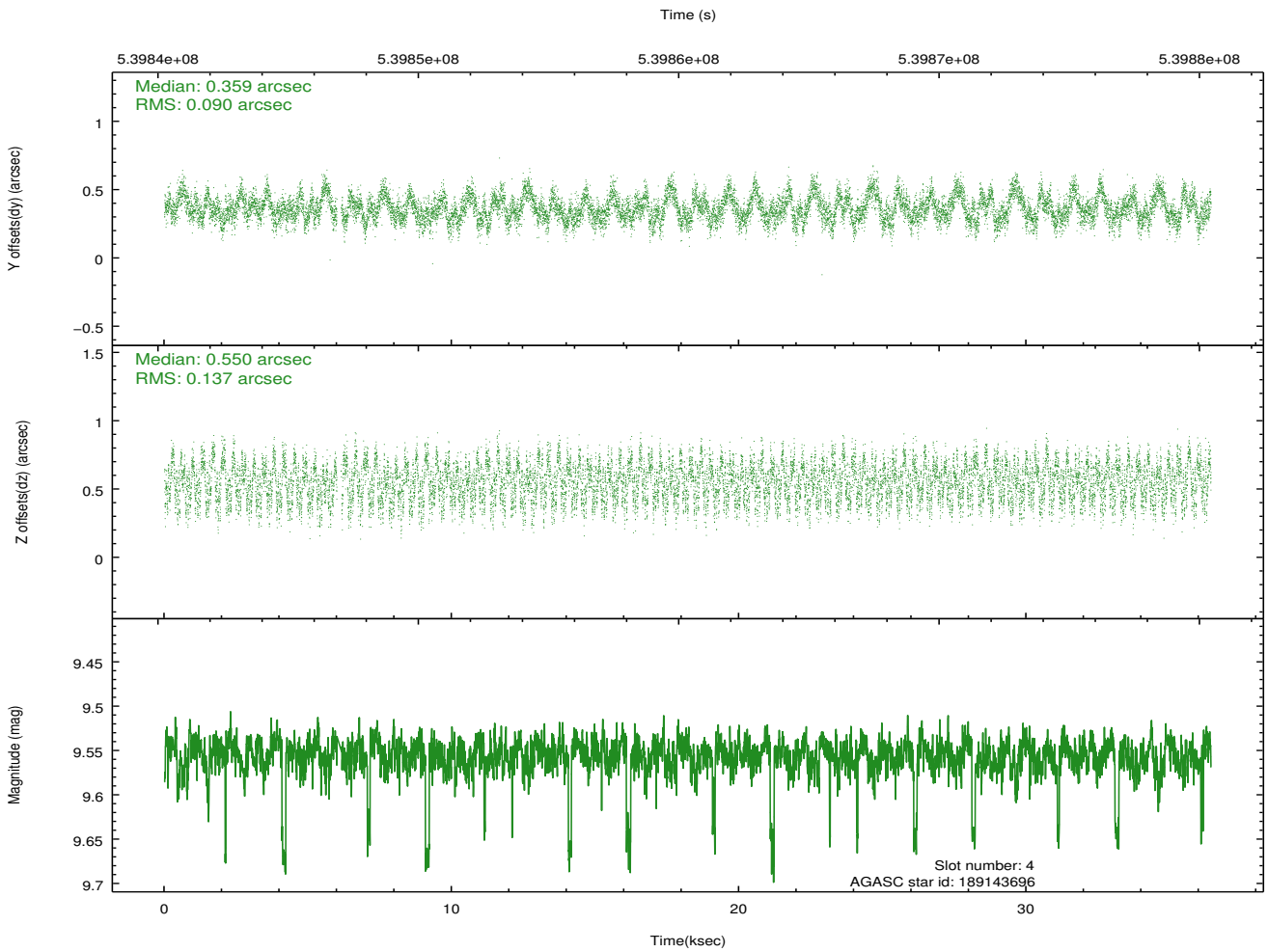
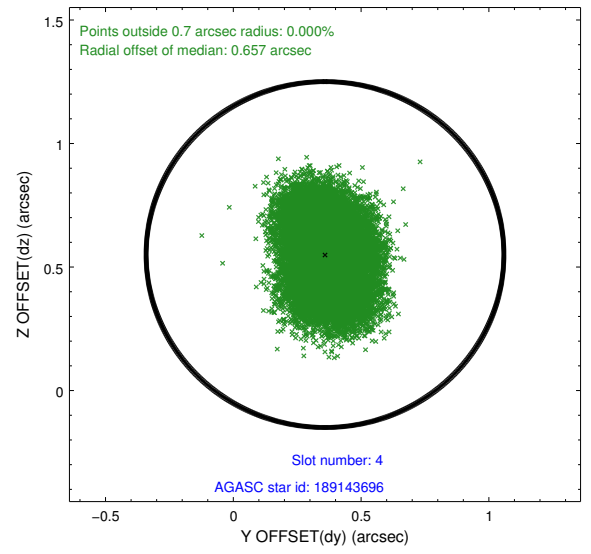
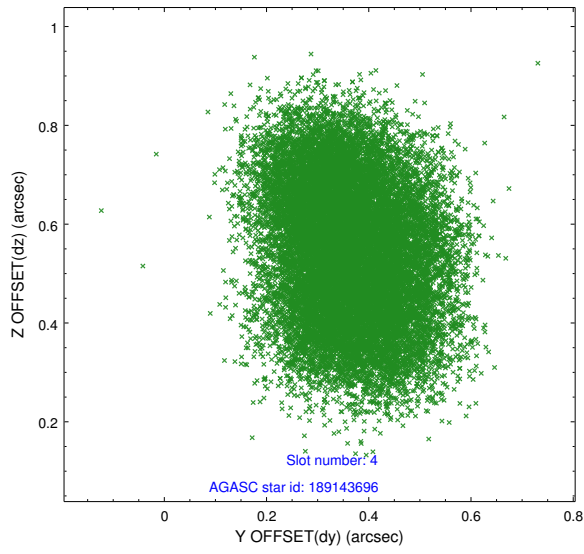
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2.4 Star Slots

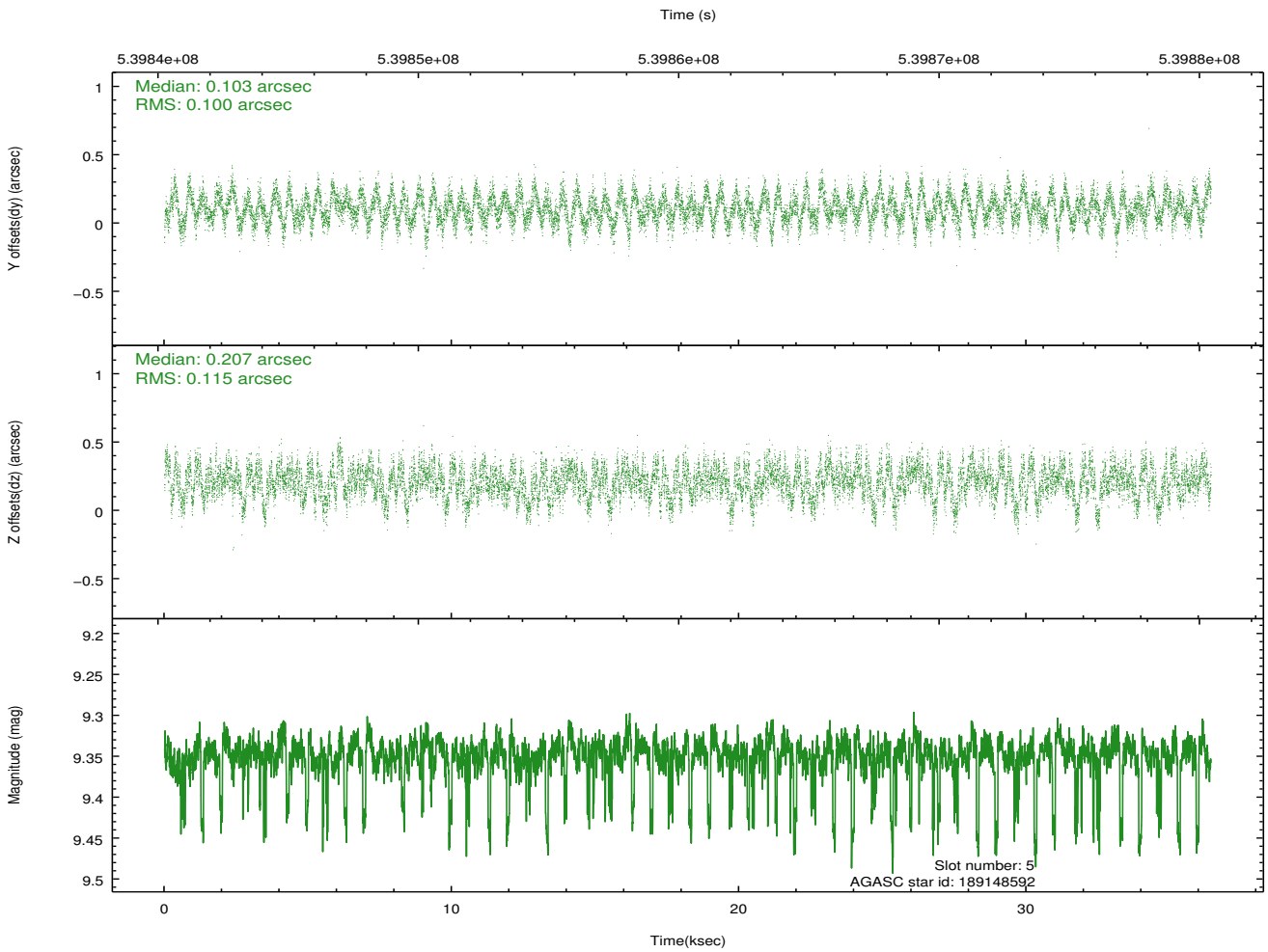
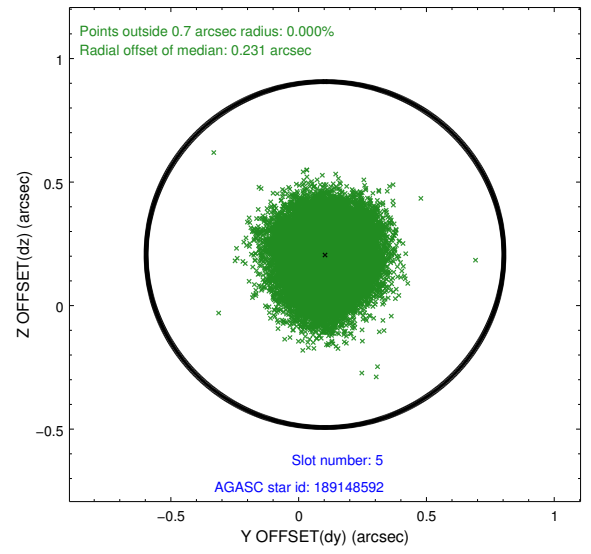
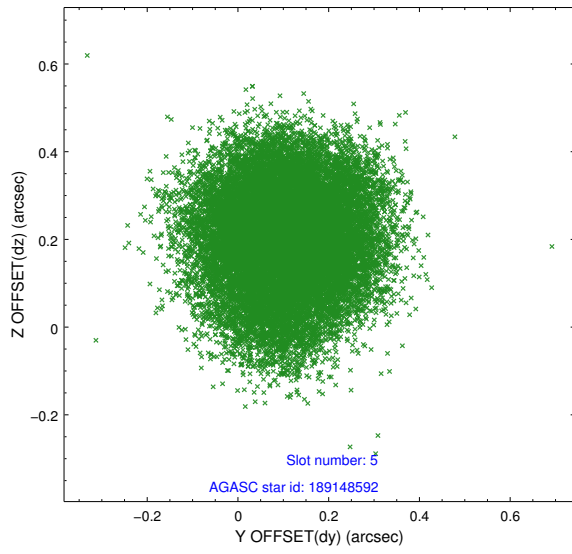
2.4.1 Slot 3



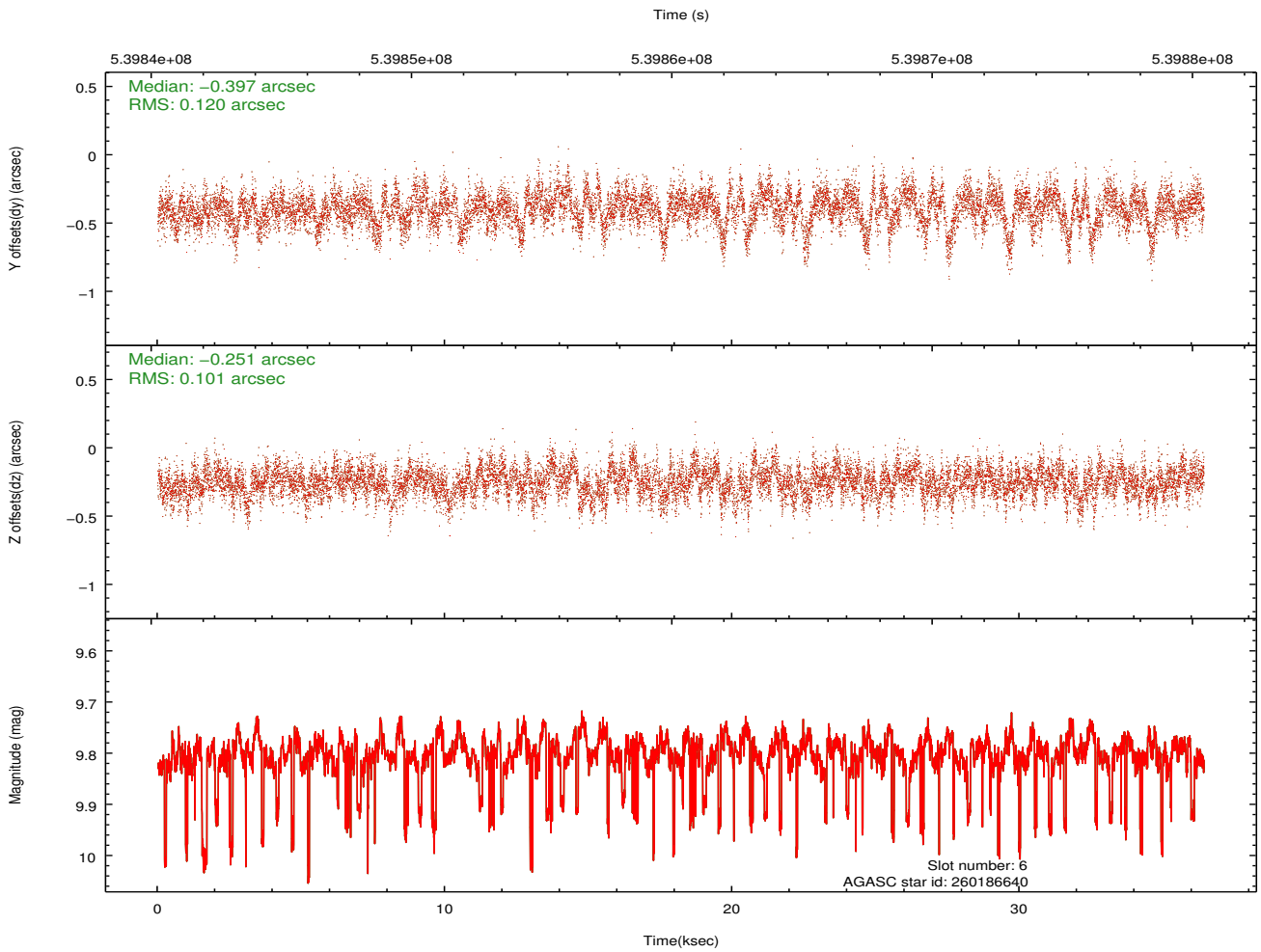
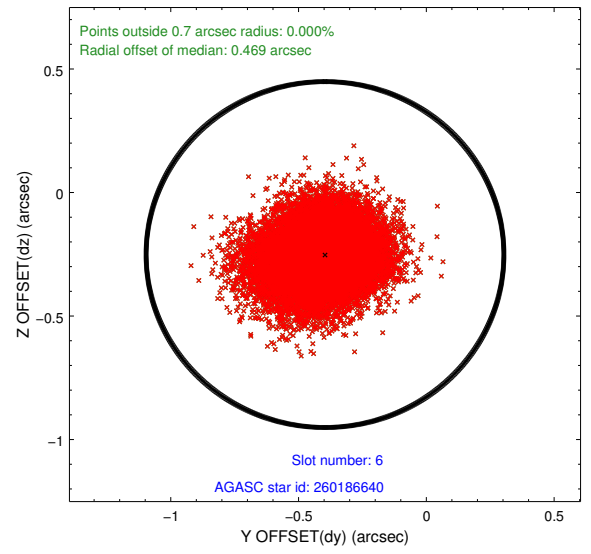
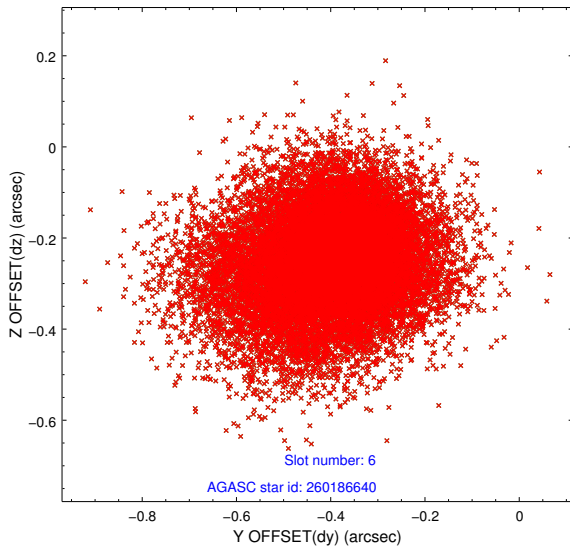
2.4.2 Slot 4



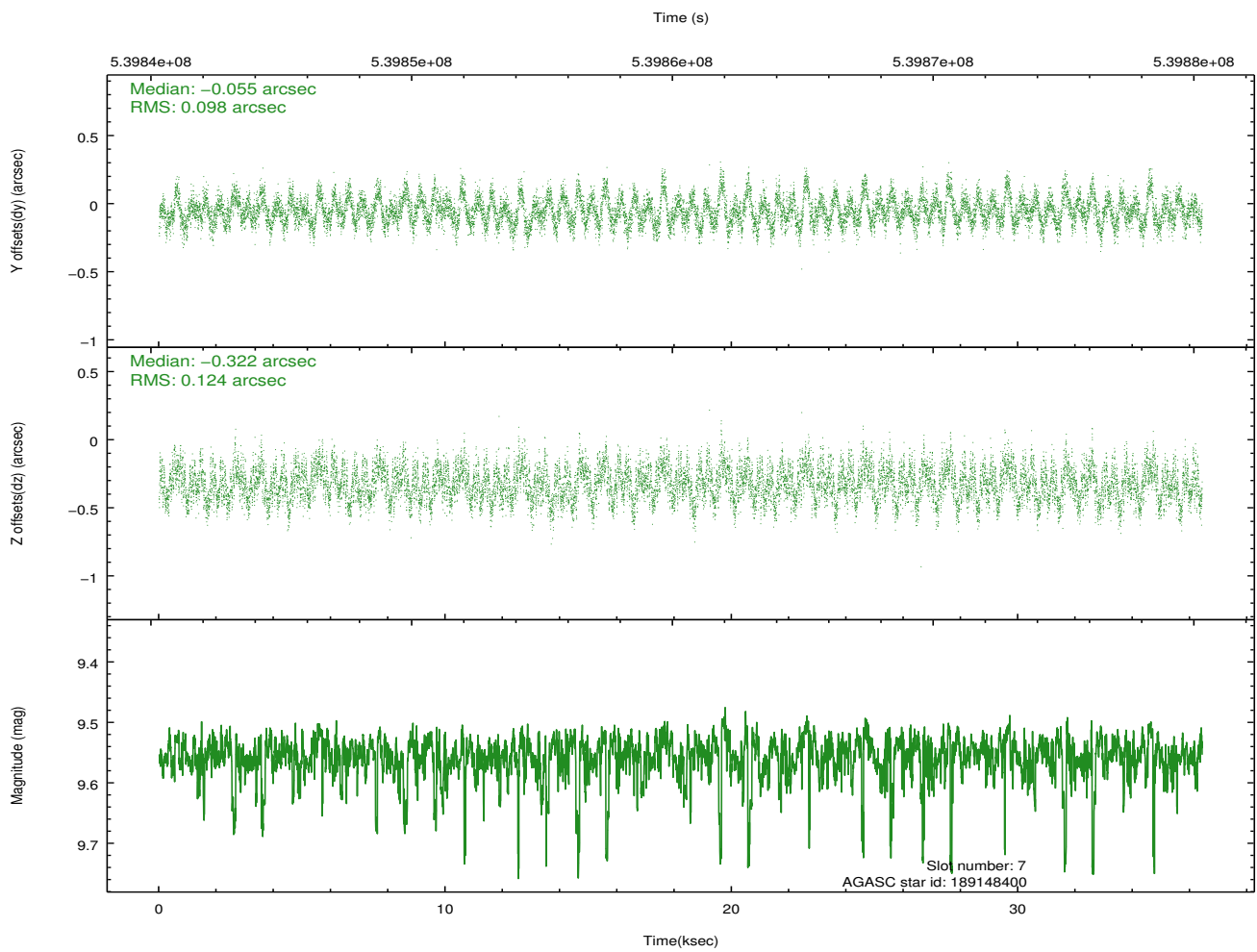
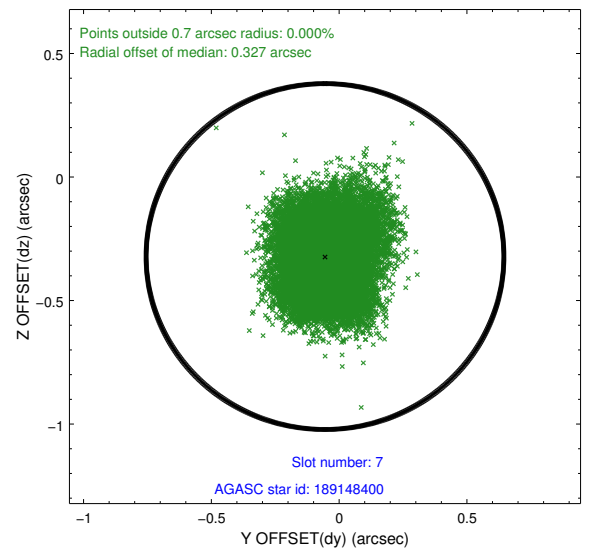
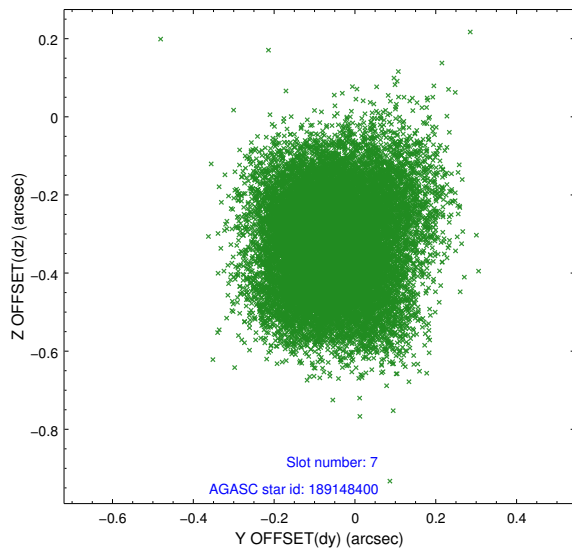
2.4.3 Slot 5



2.4.4 Slot 6

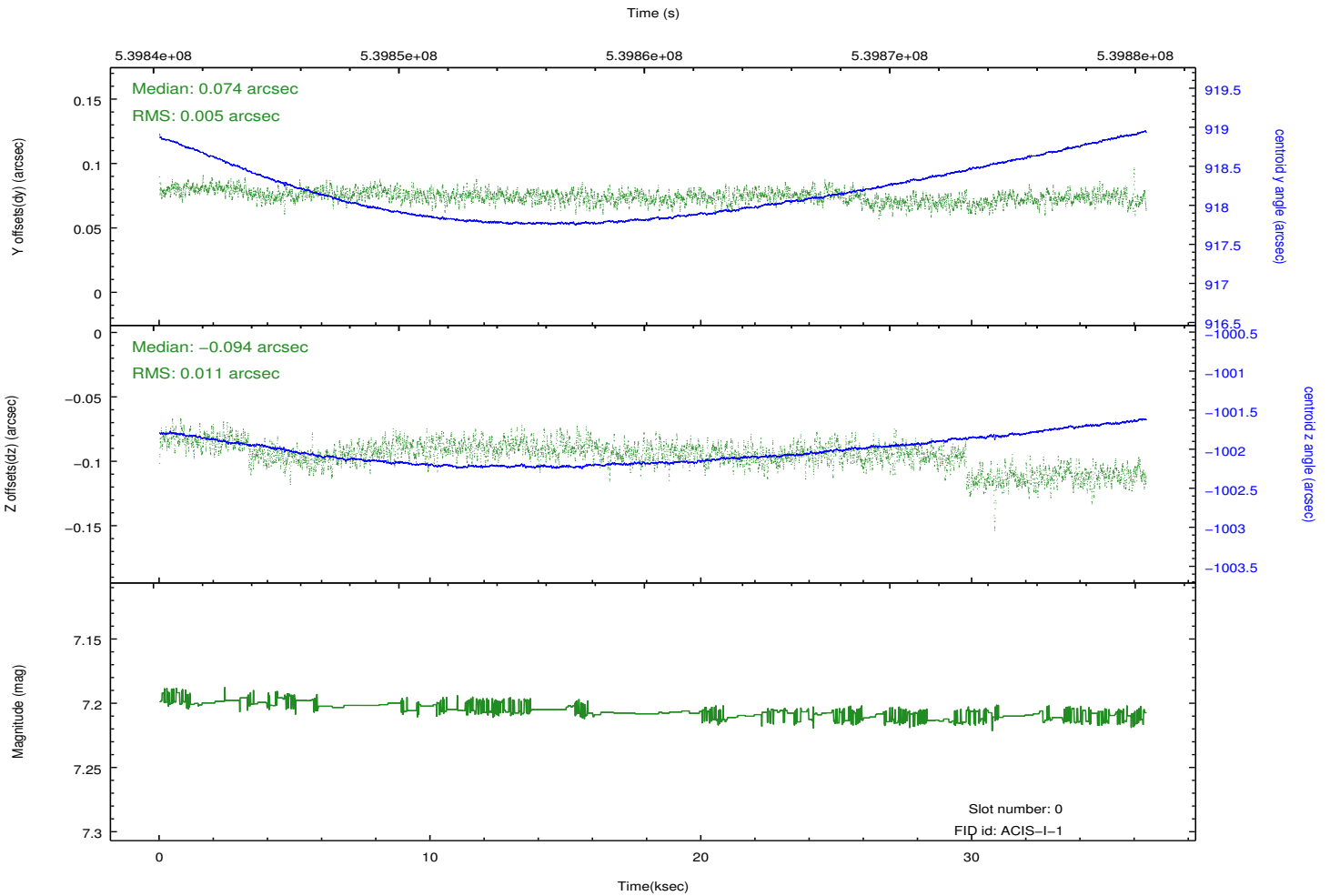
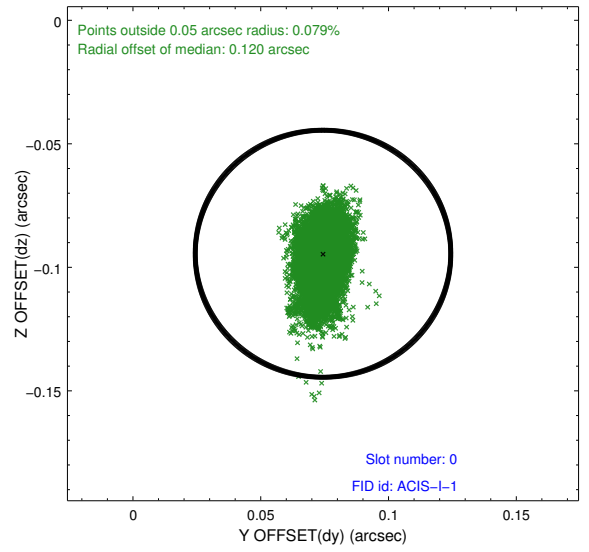
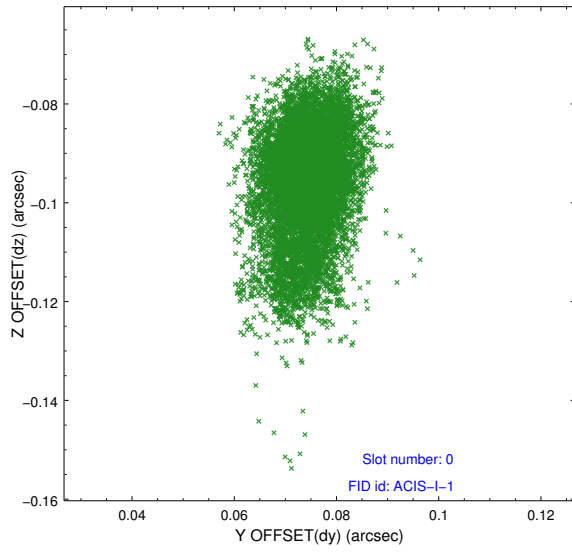


2.4.5 Slot 7

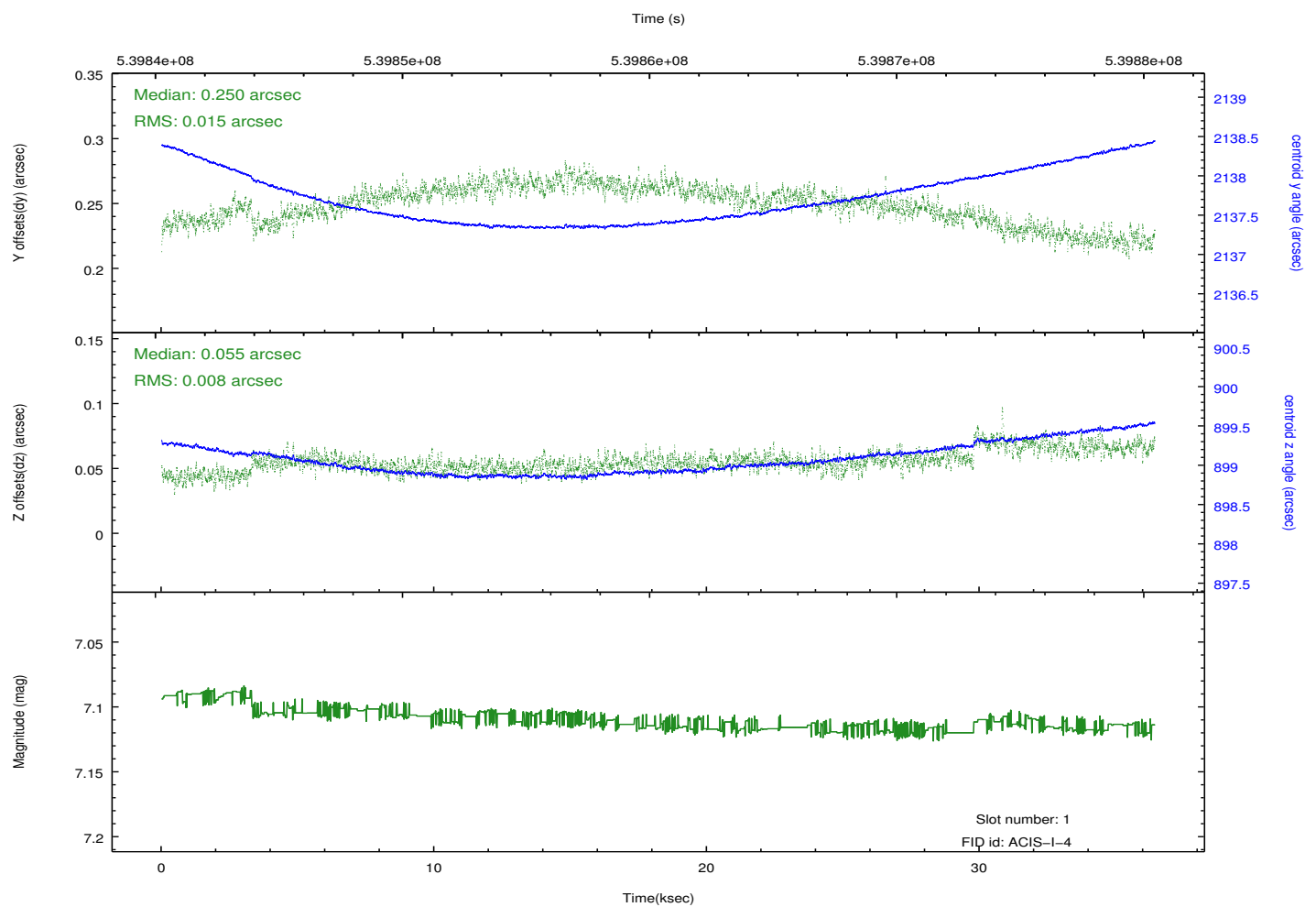
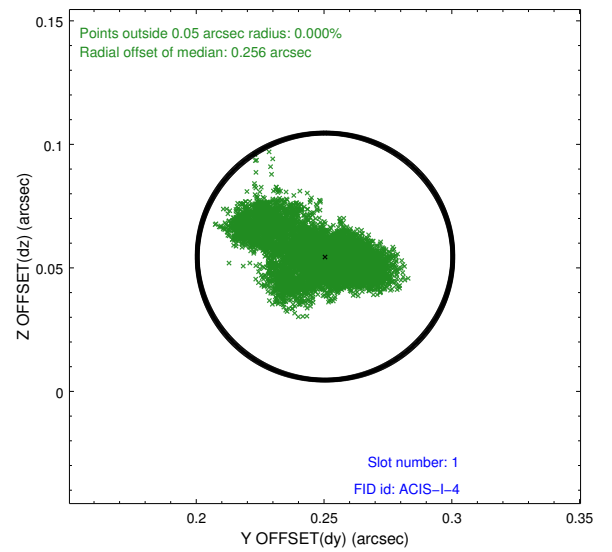
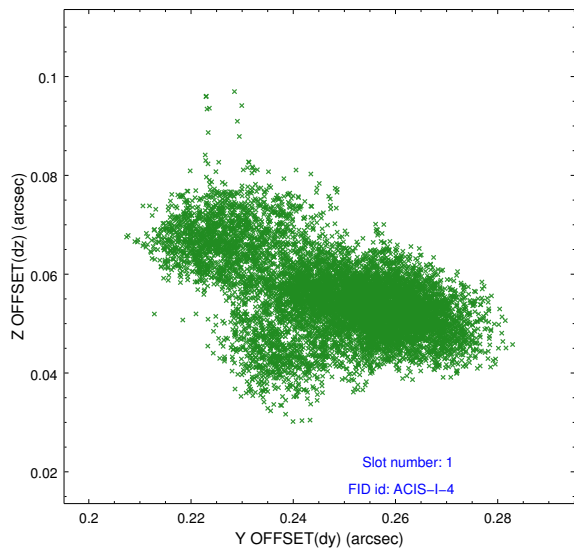


2.5 FID Slots

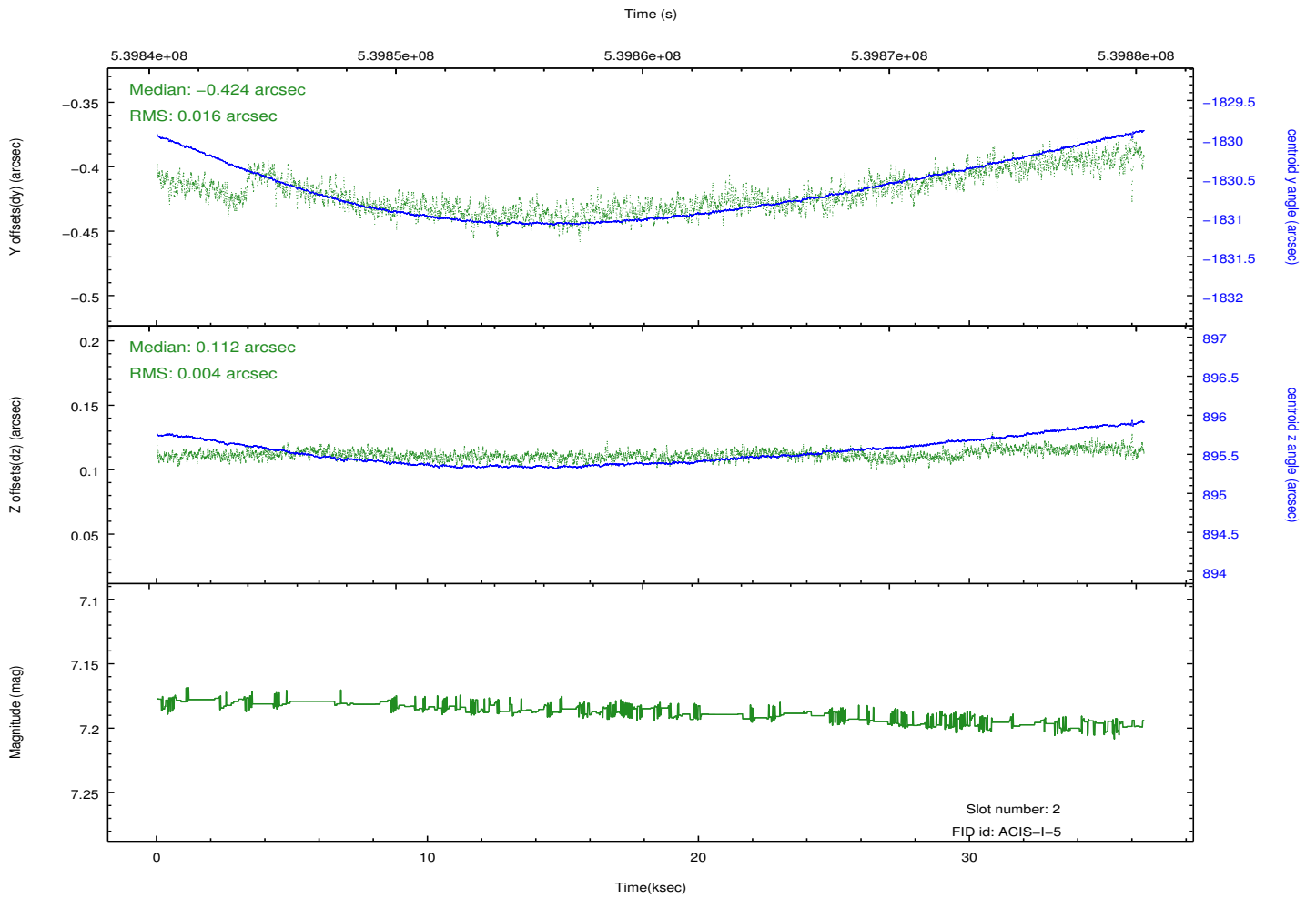
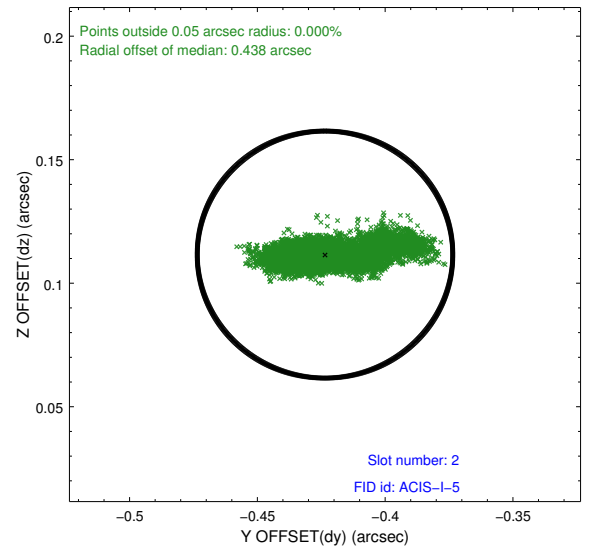
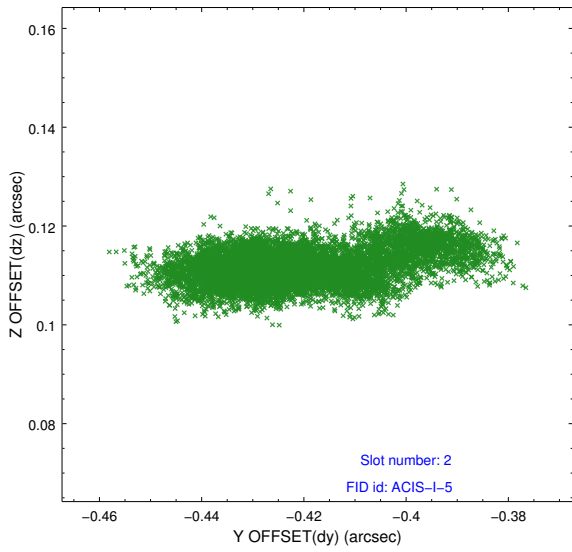
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.090200277686

A.2 Comments