

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 21544 - L2 Version 1
Chandra X-Ray Center

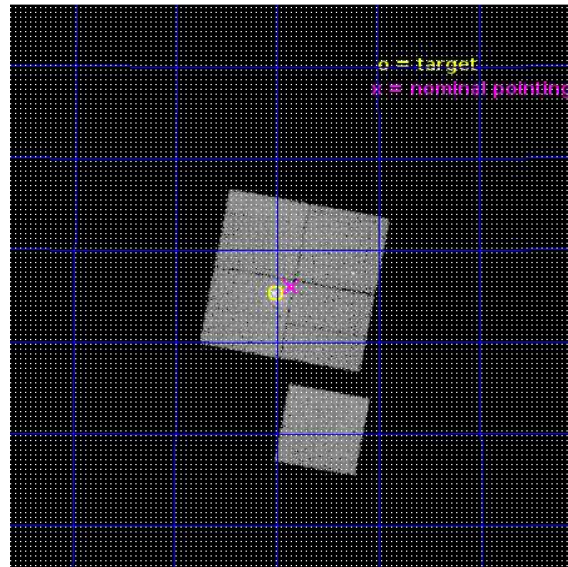
L2 Processing Date : Jul 19 2019

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1 Front

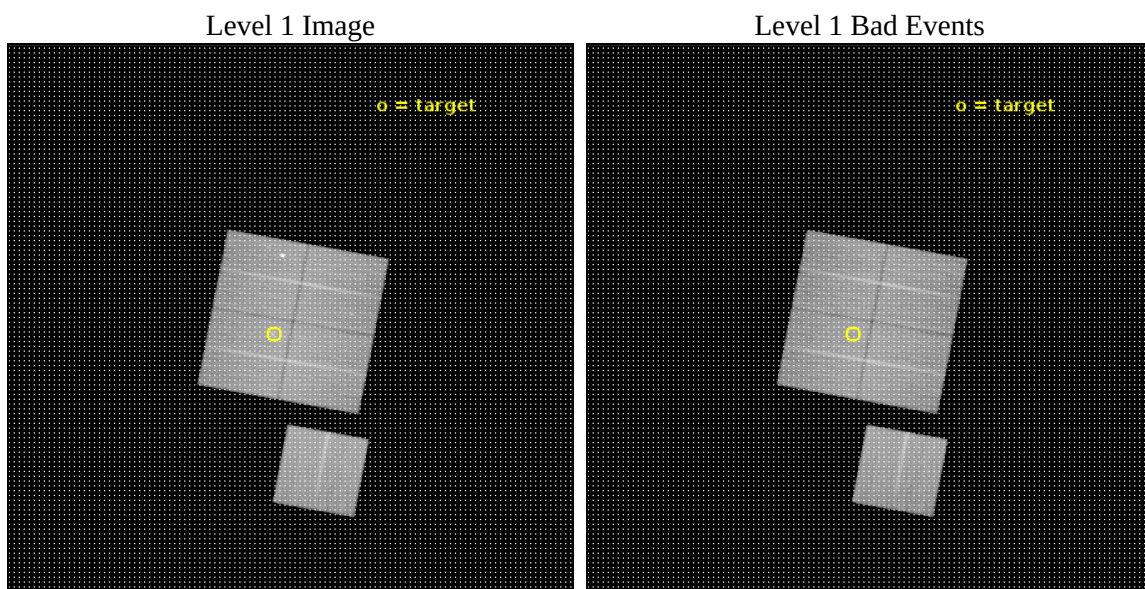
seq_num	801826	Sequence number
obs_id	21544	Observation id
title	A Unique Sample of Extreme-BCG Clusters at $0.2 < z < 0.6$	Proposal
observer	Michael McDonald	Principal investigator
object	CHIPS1911+4455	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	287.754167	Observer's specified target RA [deg]
dec_targ	44.922222	Observer's specified target Dec [deg]
ra_nom	287.71433903859	Nominal RA [deg]
dec_nom	44.934212298931	Nominal Dec [deg]
roll_nom	190.64564841724	Nominal Roll [deg]
revision	1	Processing version of data
ontime	30962.759158015	Sum of GTIs [s]
livetime	30558.207915164	Livetime [s]
ontime0	30965.900238276	Sum of GTIs [s]
ontime1	30956.477047443	Sum of GTIs [s]
ontime2	30962.759188056	Sum of GTIs [s]
ontime3	30962.759158015	Sum of GTIs [s]
ontime6	30959.618137956	Sum of GTIs [s]
l2events	115355	Number of level 2 events



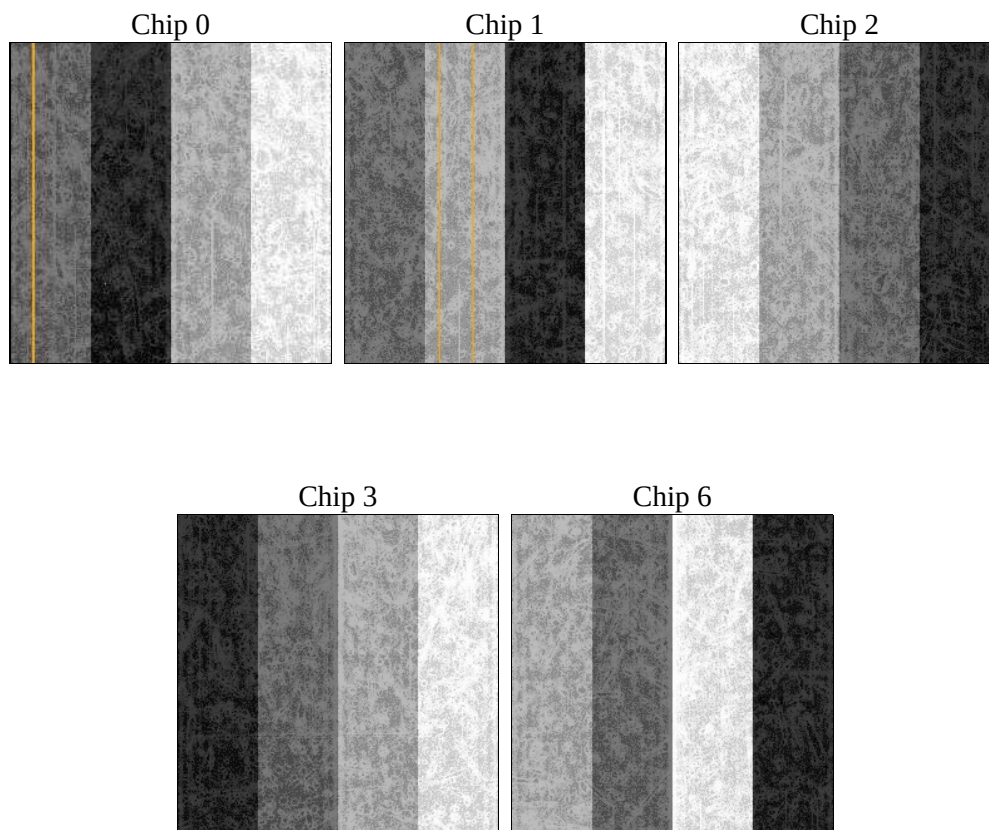
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	30900.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	30962.759158015	Sum of GTIs [s]
caldsver	4.8.3.1	 	ontime0	30965.900238276	Sum of GTIs [s]
date	2019-07-19T23:21:26	Date and time of file creation	ontime1	30956.477047443	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	30962.759188056	Sum of GTIs [s]
			ontime3	30962.759158015	Sum of GTIs [s]
			ontime6	30959.618137956	Sum of GTIs [s]
			l1events	1208674	Number of level 1 events

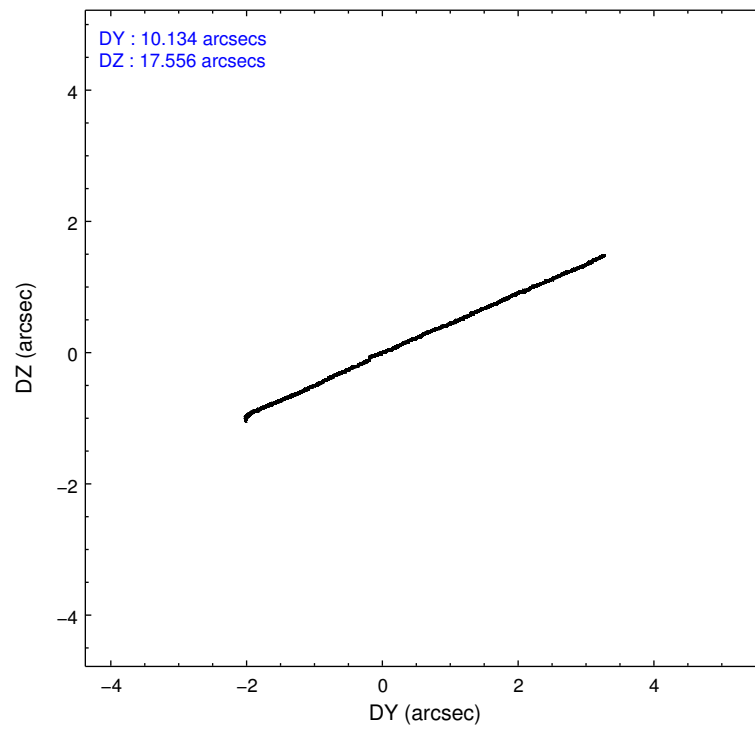
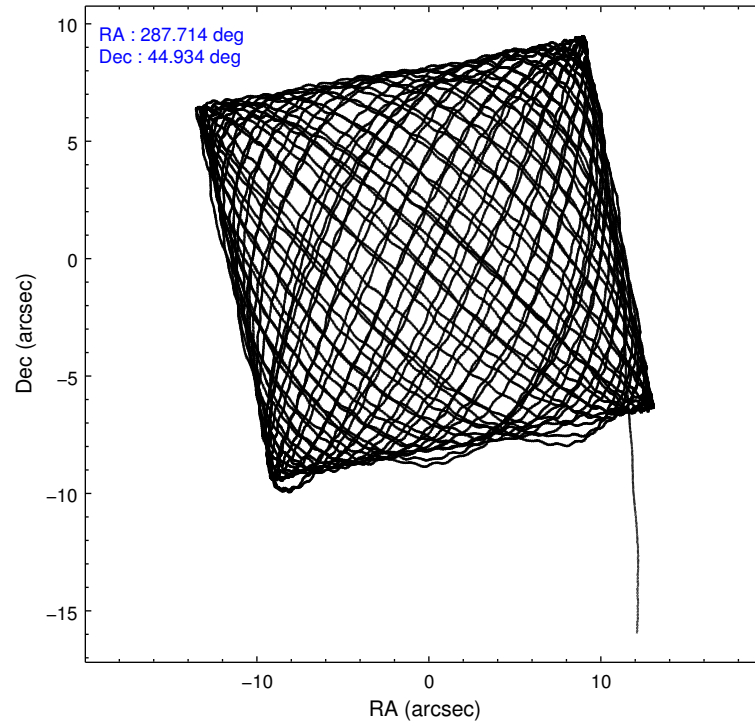
2.1.4 Events

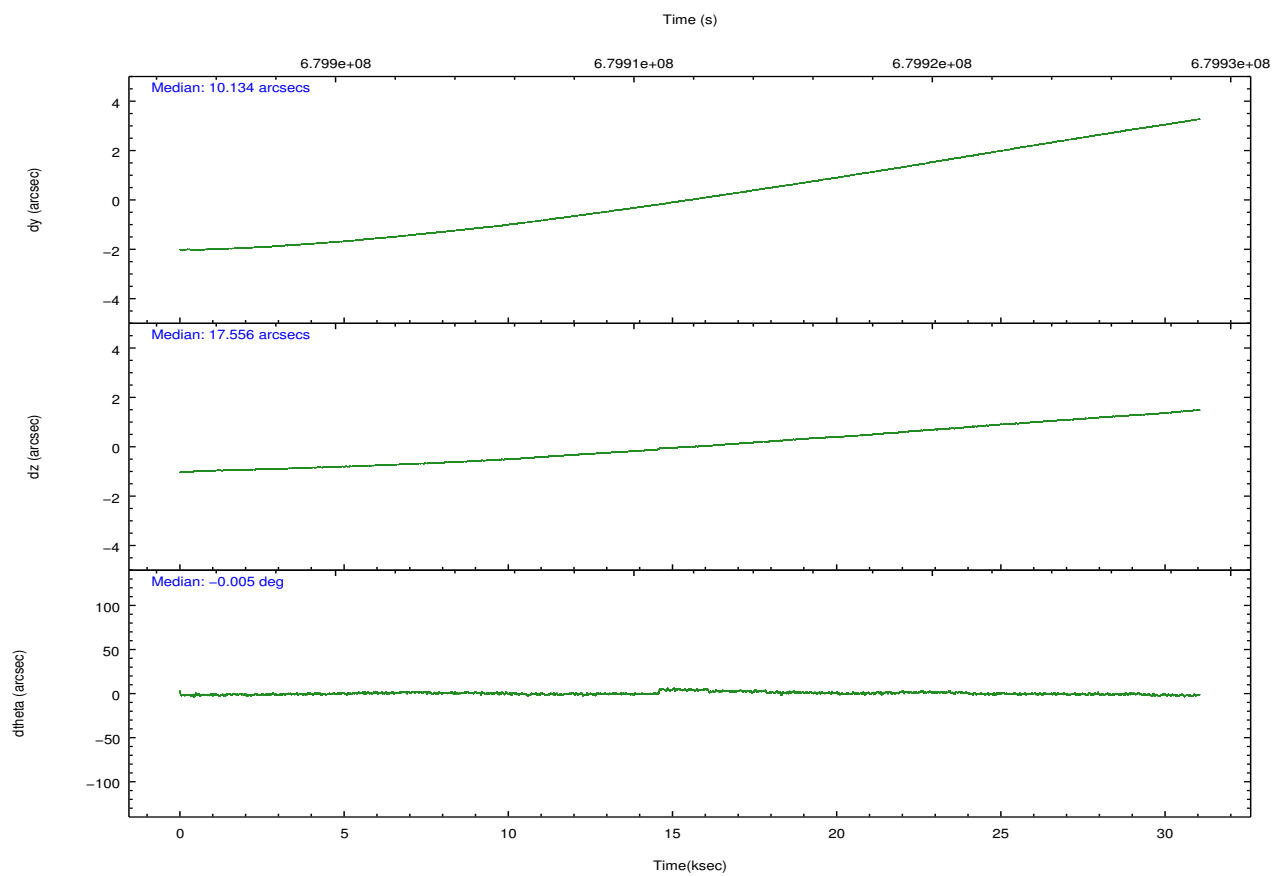
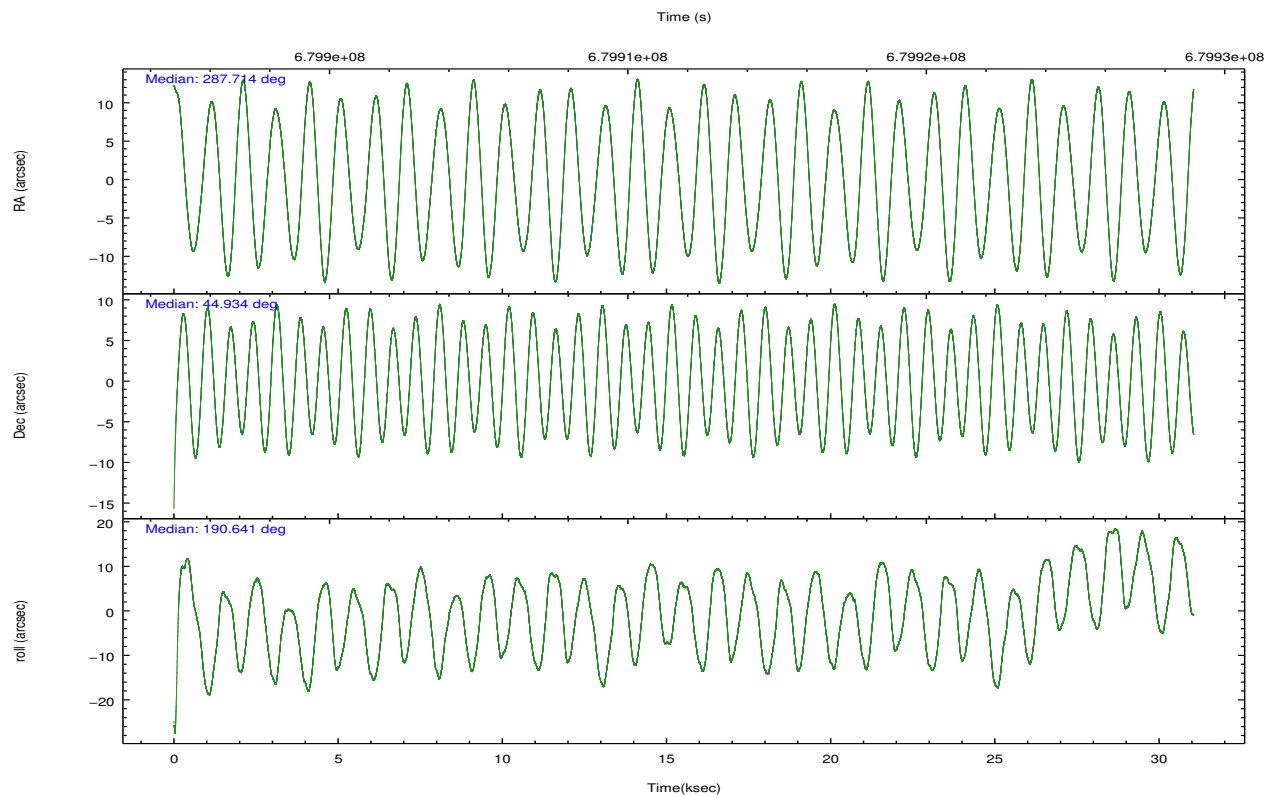
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	226817	236905	253937	240739	250276	grade 0 events	8611	17631	8817	12041	7433
rejected events	200600	199227	228812	211650	223966		3%	7%	3%	5%	2%
rejected %	88%	84%	90%	87%	89%	grade 1 events	120	234	124	150	113
							0%	0%	0%	0%	0%
						grade 2 events	6737	8011	6108	6059	7132
							2%	3%	2%	2%	2%
						grade 3 events	2589	2361	2492	2670	2250
							1%	0%	0%	1%	0%
						grade 4 events	2369	2481	2540	2639	2163
							1%	1%	1%	1%	0%
						grade 5 events	9331	9478	8944	10667	9729
							4%	4%	3%	4%	3%
						grade 6 events	5914	7198	5171	5684	7334
							2%	3%	2%	2%	2%
						grade 7 events	191146	189511	219741	200829	214122
							84%	79%	86%	83%	85%

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	287.743827	287.7143390385934	CCD I2 on	Y	Y
[deg] Pointing Dec	44.952258	44.93421229893054	CCD I3 on	Y	Y
[deg] Pointing Roll	190.416138	190.6456484172446	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)	679896494.184000	679895275.61726	CCD S5 on	N	N
Observation start date	2019-07-19T04:07:05	2019-07-19T03:47:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	679927394.184000	679928098.16923	On-chip summing requested	N	N
Observation end date	2019-07-19T12:42:05	2019-07-19T12:54:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



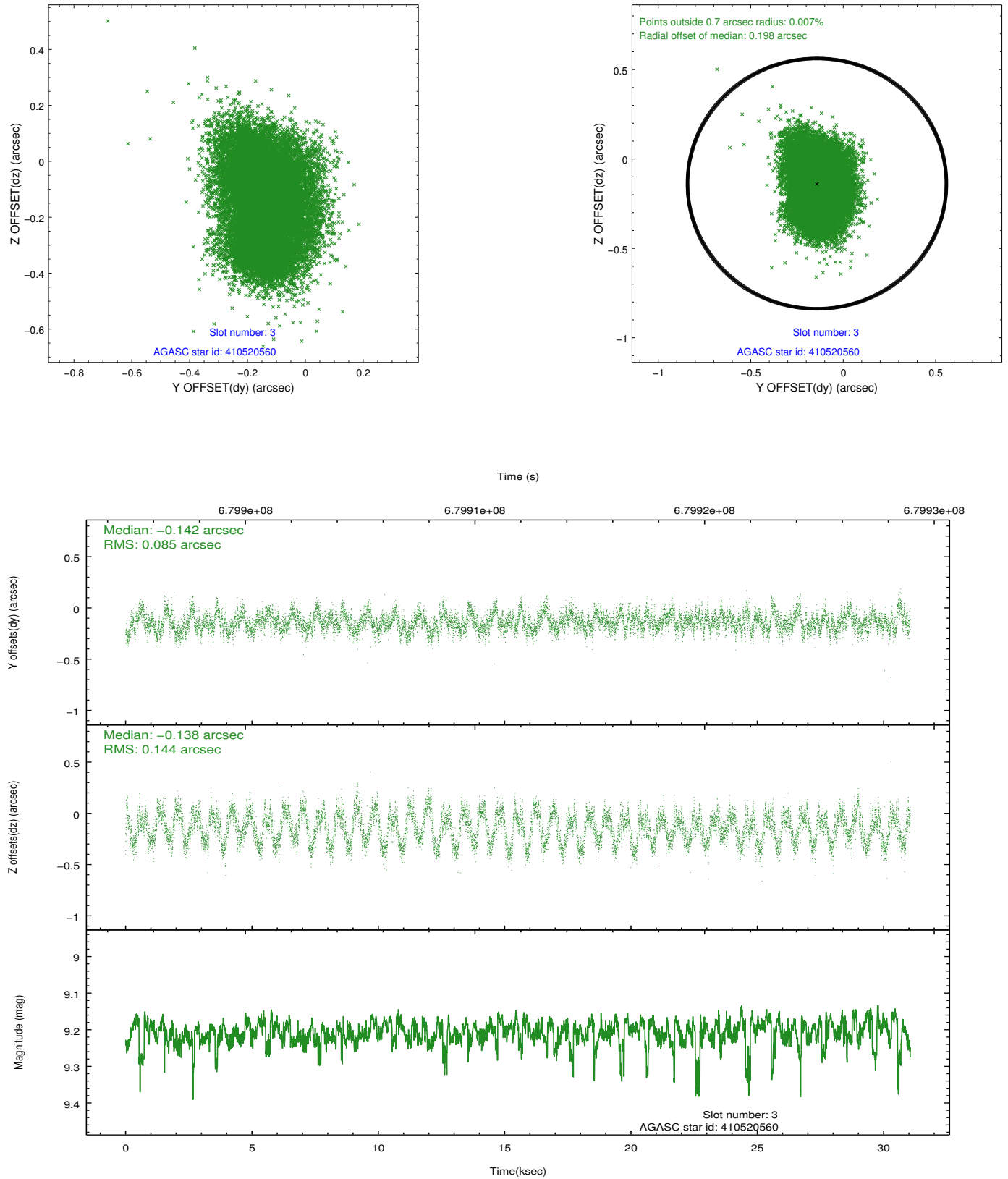


Slot Statistics

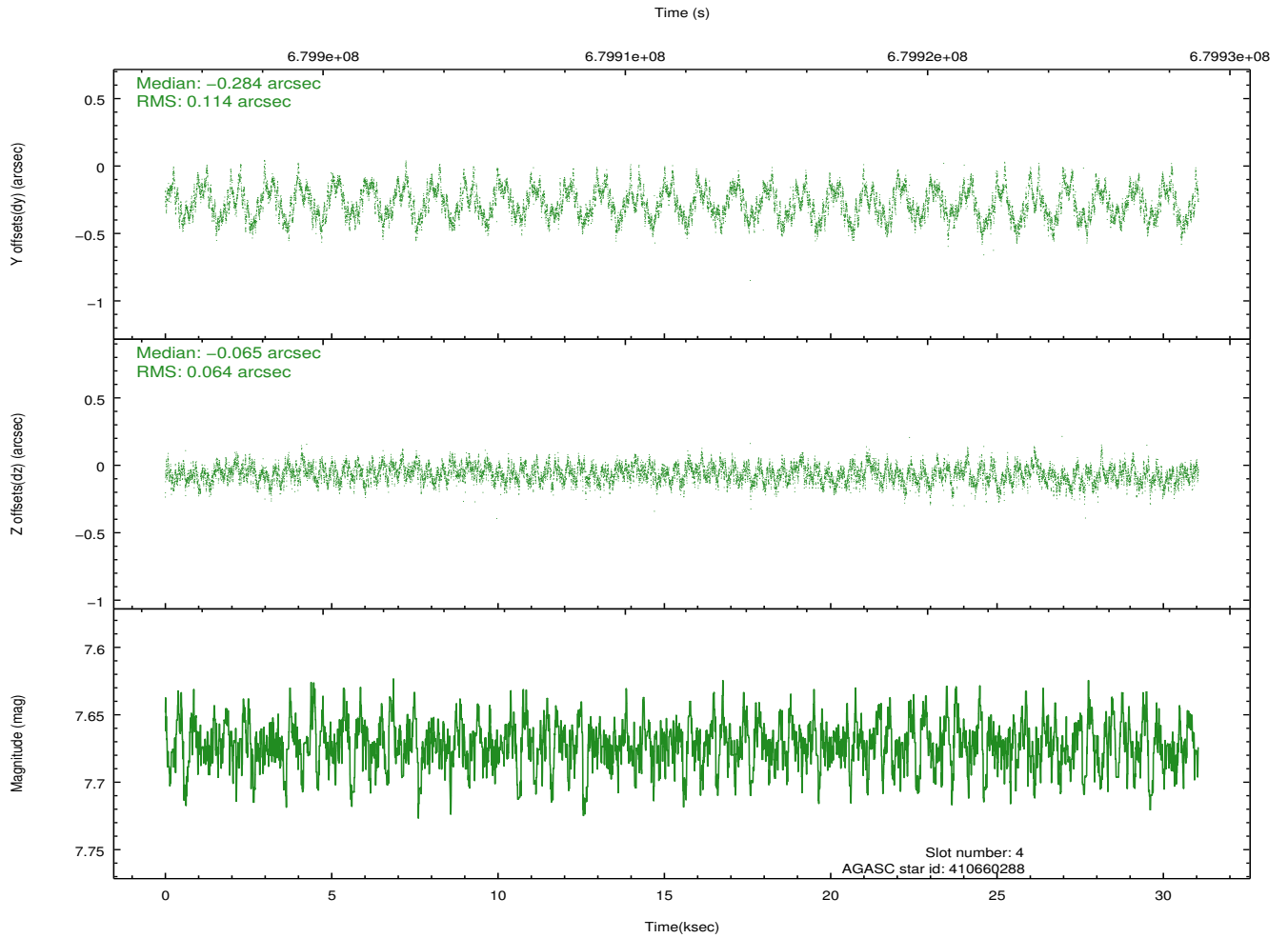
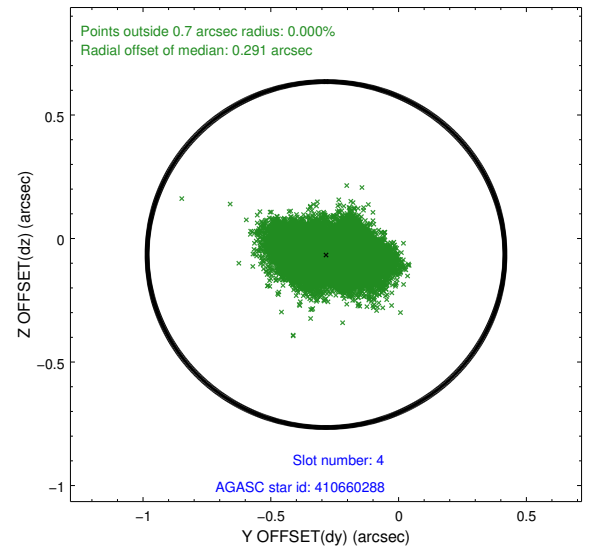
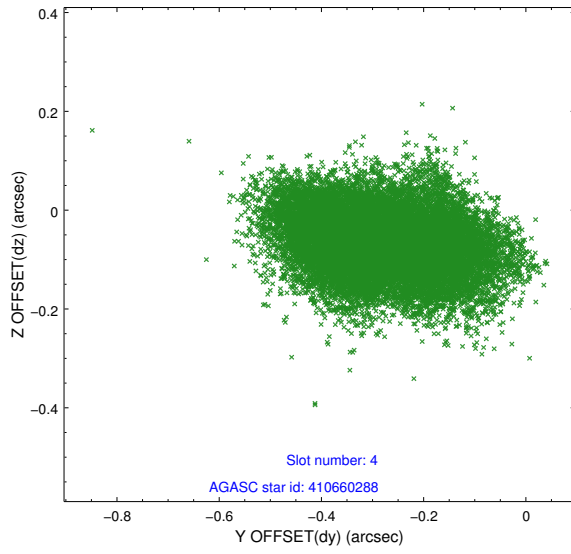
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.16	7573	1.000	-0.340	-0.133	0.048	0.089	0.000000	0.000000	-765.22	-847
1	FID		ACIS-I-4	7.21	7575	1.000	0.690	0.206	0.032	0.053	0.000000	0.000000	2149.75	1058
2	FID		ACIS-I-5	7.26	7575	1.000	-0.448	-0.009	0.042	0.072	0.000000	0.000000	-1819.16	1056
3	GUIDE	used	410520560	9.21	15129	1.000	-0.142	-0.138	0.182	0.272	287.456261	44.557401	982.71	1263
4	GUIDE	used	410660288	7.67	15144	1.000	-0.284	-0.065	0.141	0.223	287.549830	44.559975	744.51	1298
5	GUIDE	used	410661776	9.46	15110	1.000	0.104	-0.227	0.262	0.386	288.014833	44.454305	-360.85	1887
6	GUIDE	used	464261688	9.03	15134	1.000	0.101	0.342	0.256	0.379	287.597932	45.336245	113.69	-1426
7	GUIDE	used	410658984	9.08	15125	1.000	0.212	0.106	0.171	0.267	288.354384	44.717807	-1384.10	1106

2.4 Star Slots

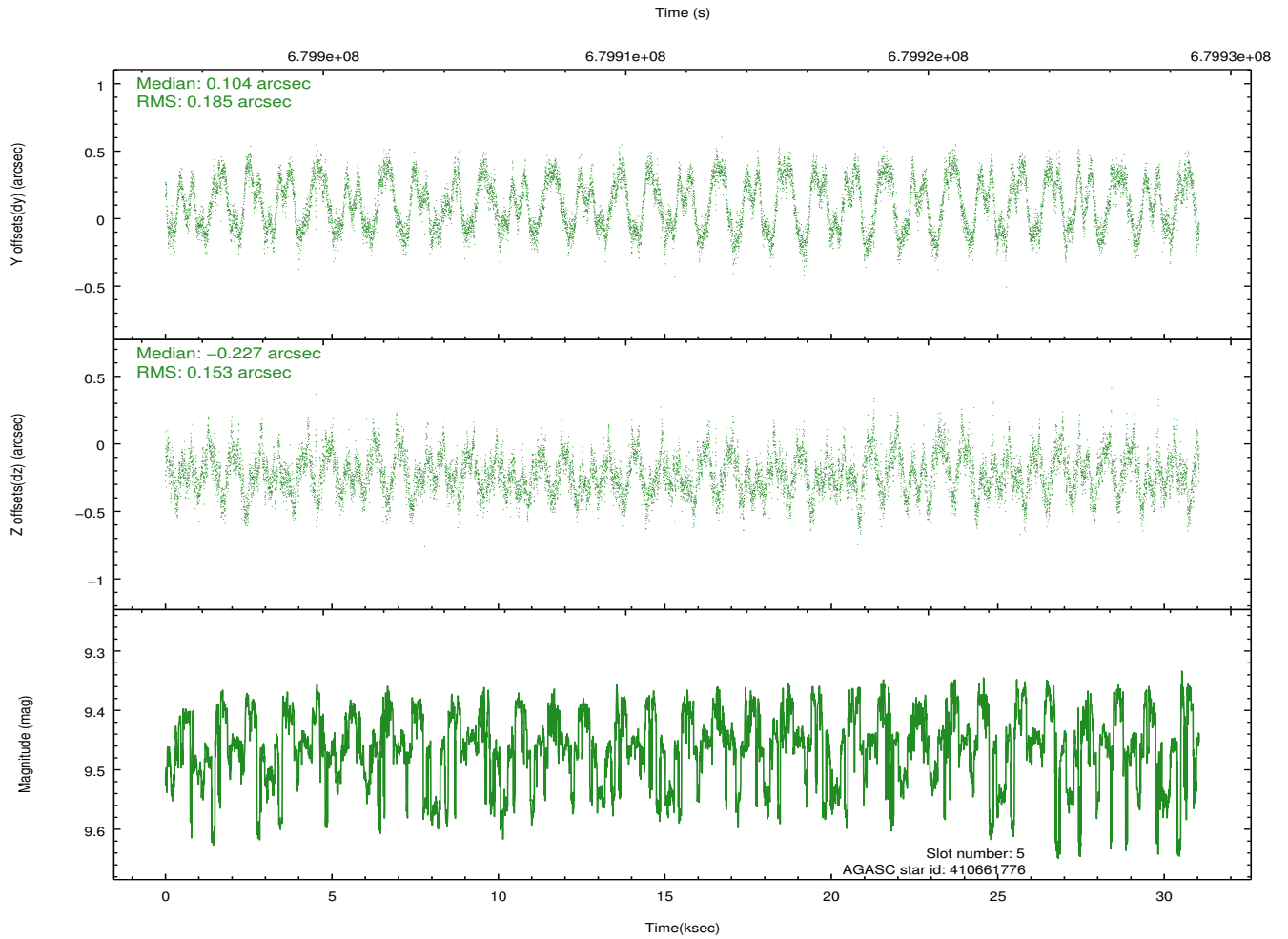
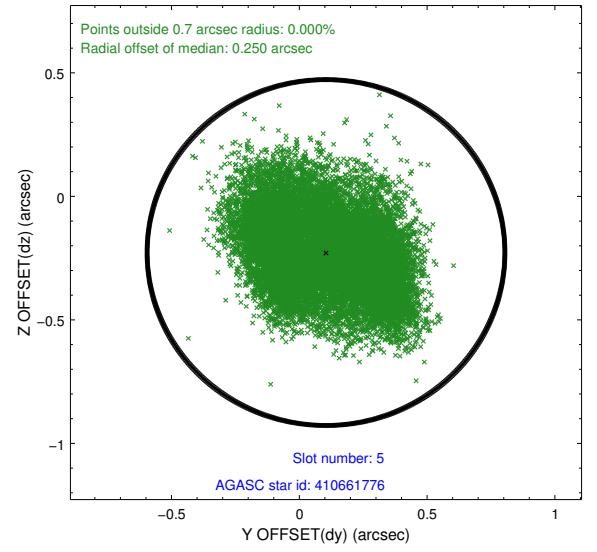
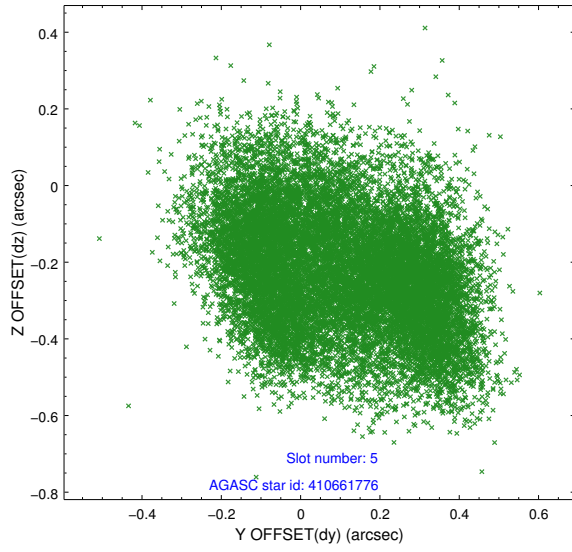
2.4.1 Slot 3



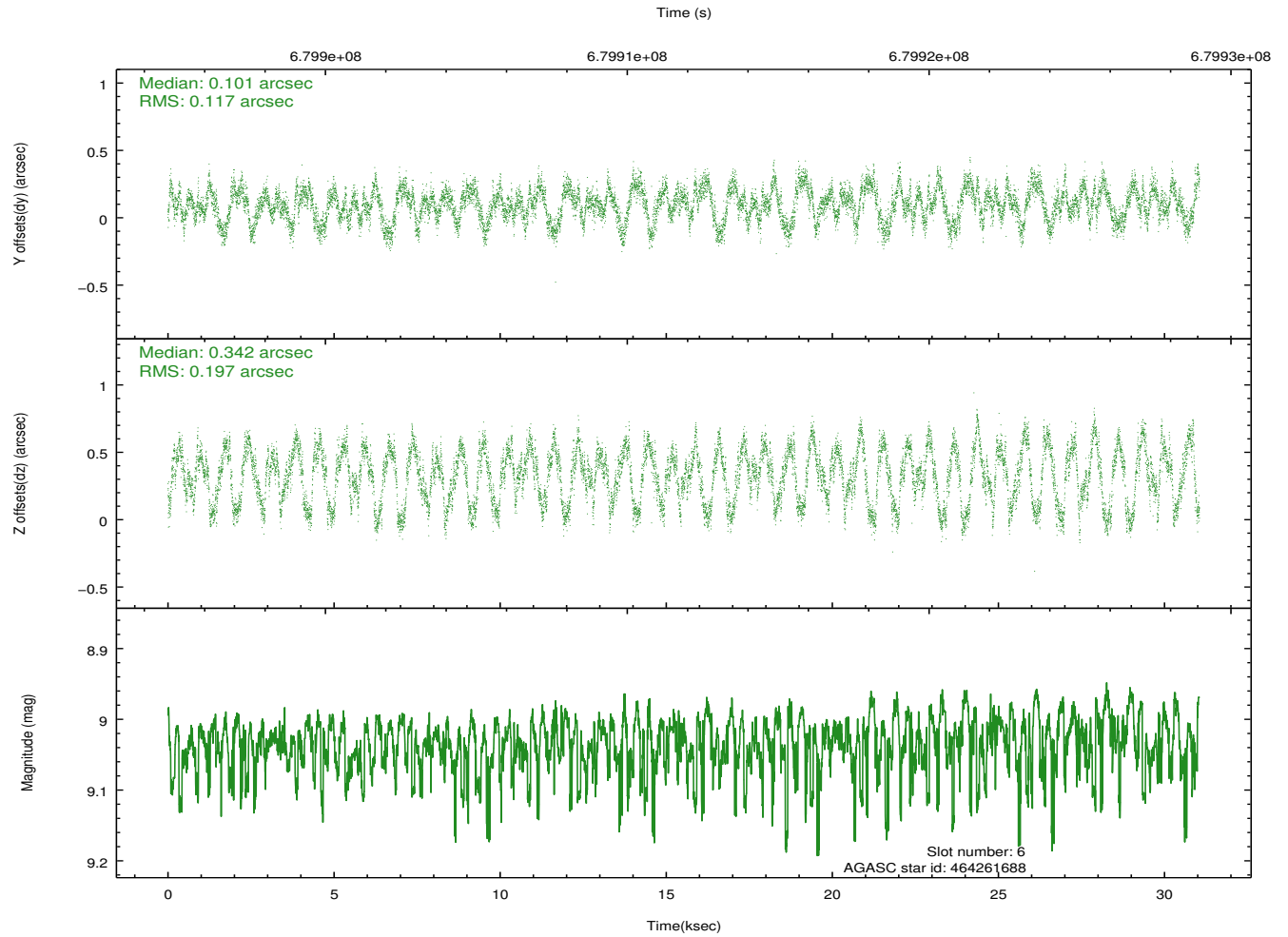
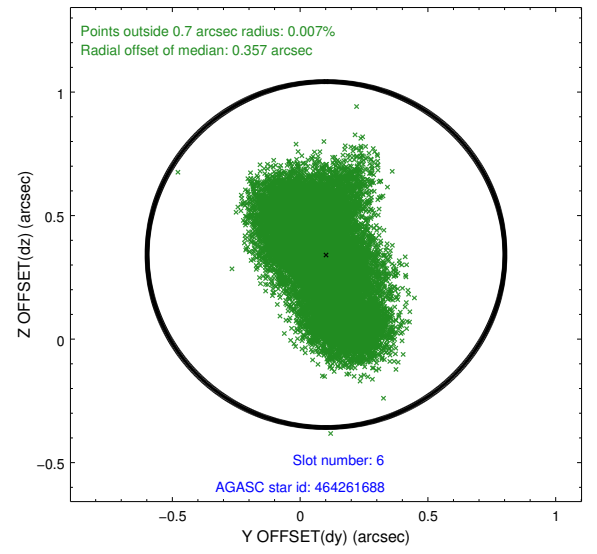
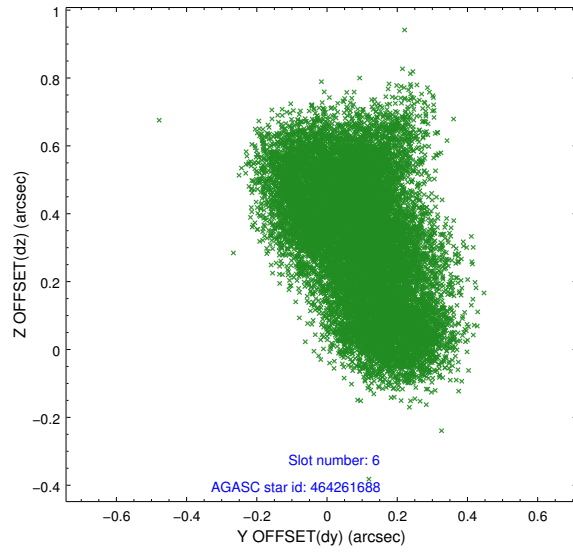
2.4.2 Slot 4



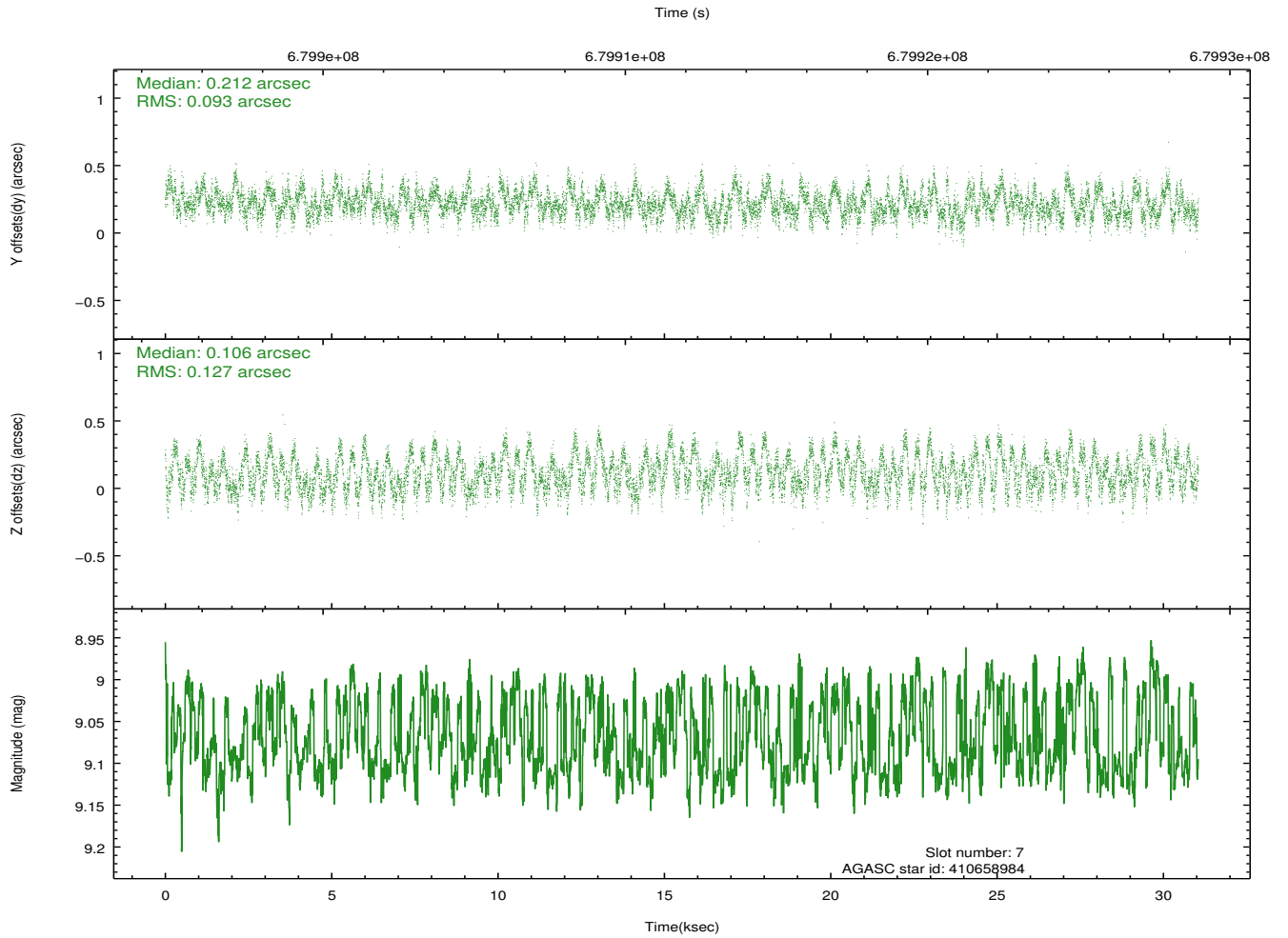
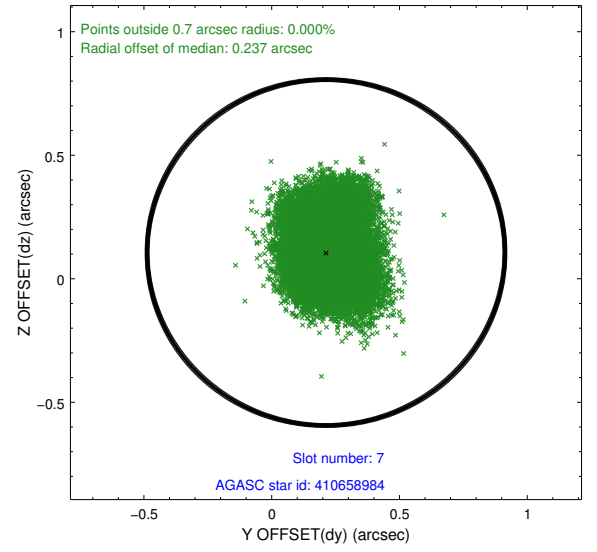
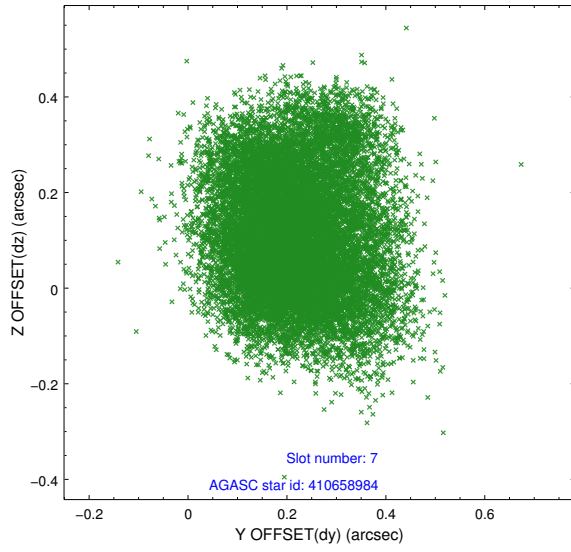
2.4.3 Slot 5



2.4.4 Slot 6

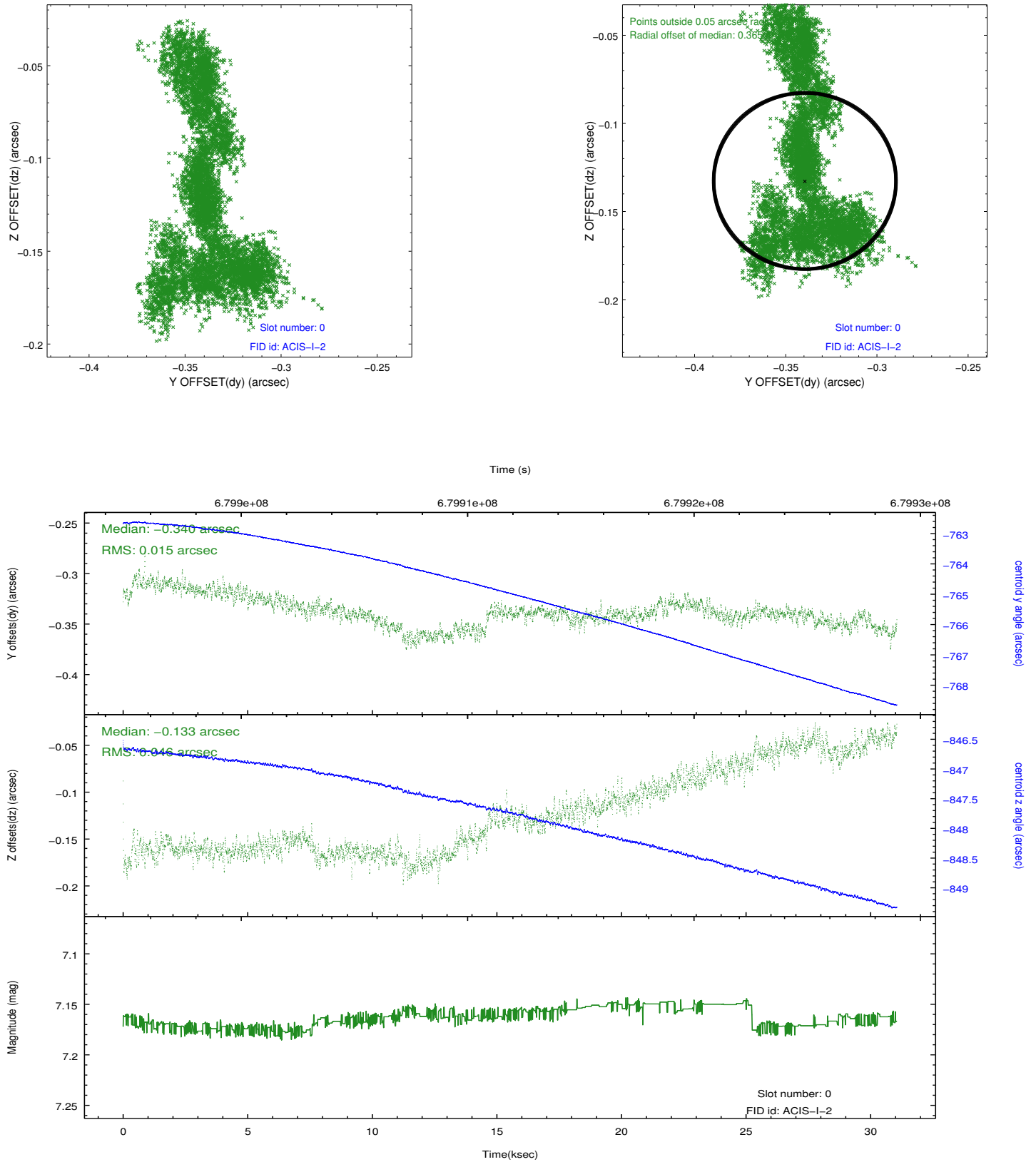


2.4.5 Slot 7

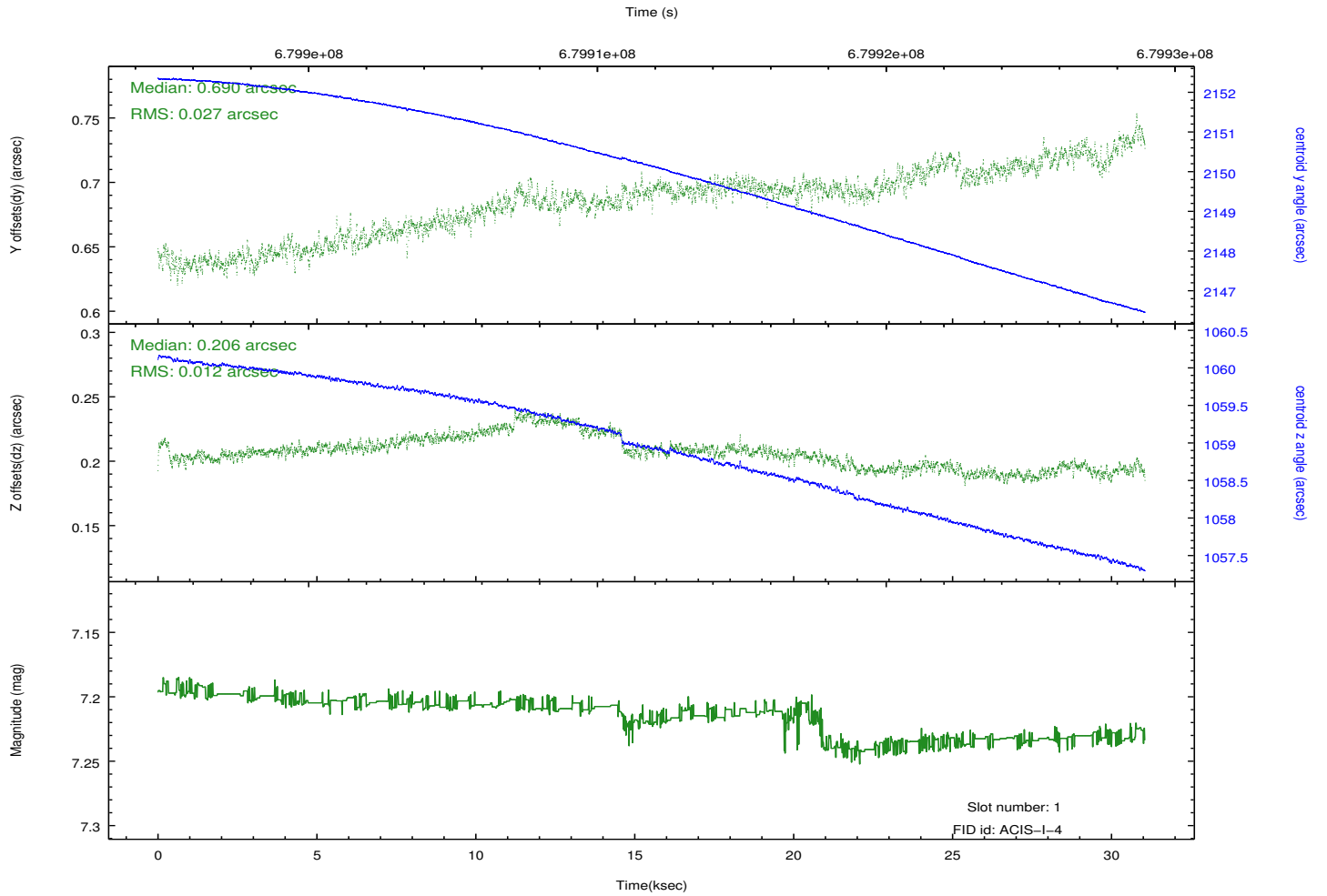
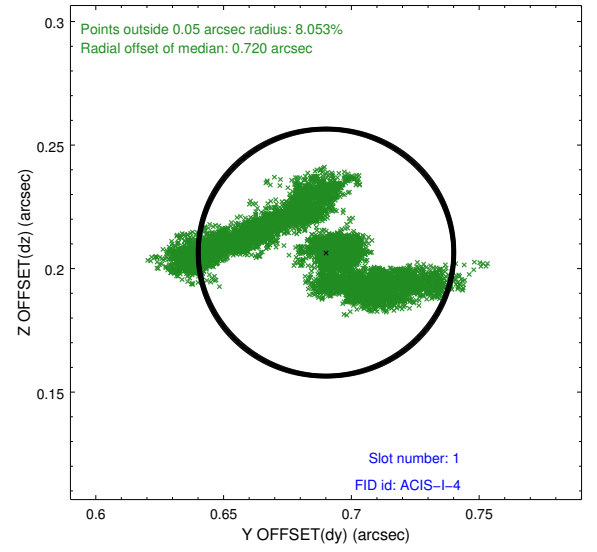
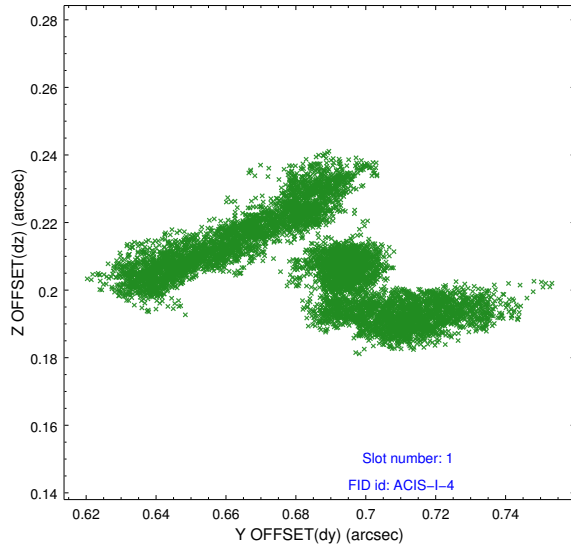


2.5 FID Slots

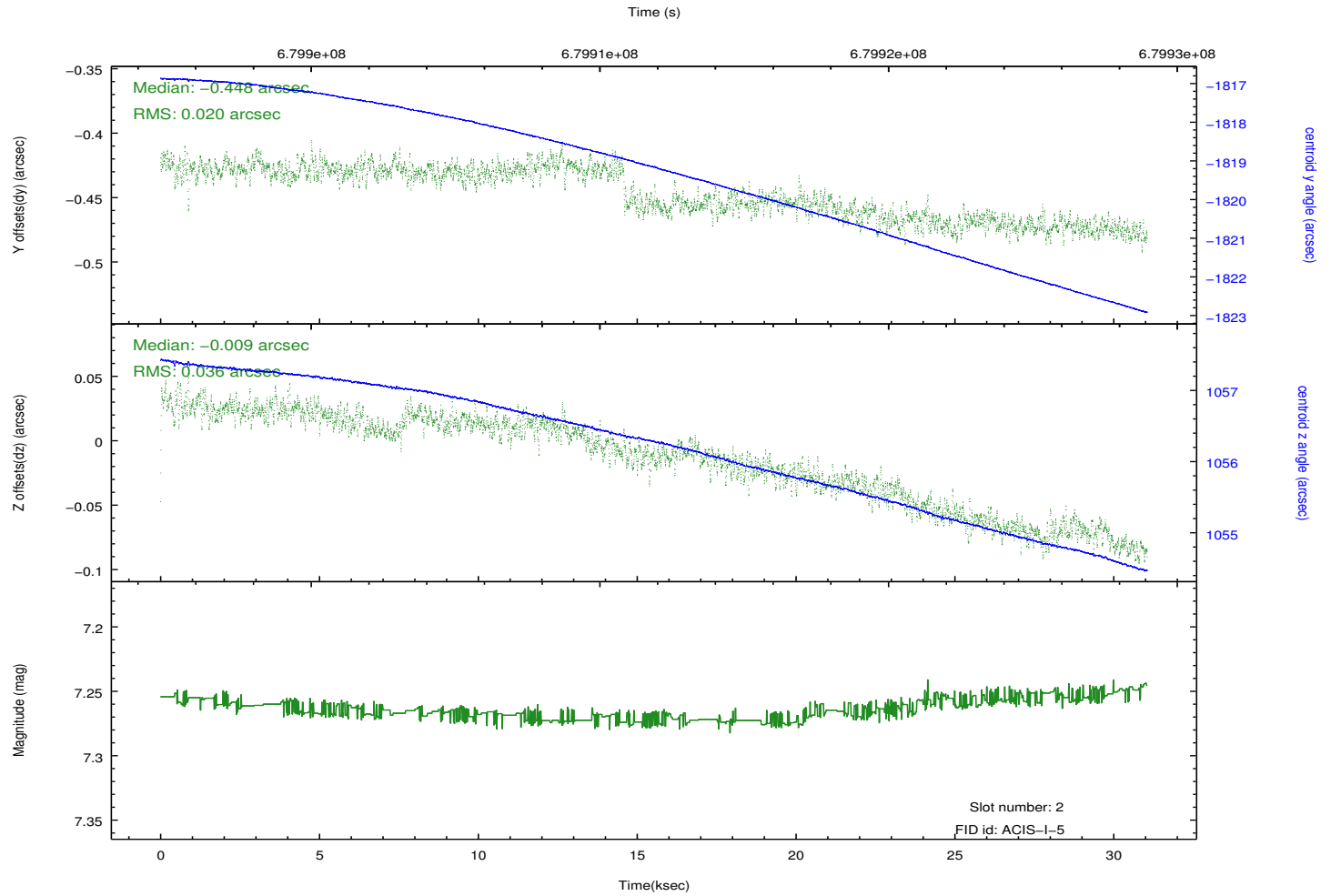
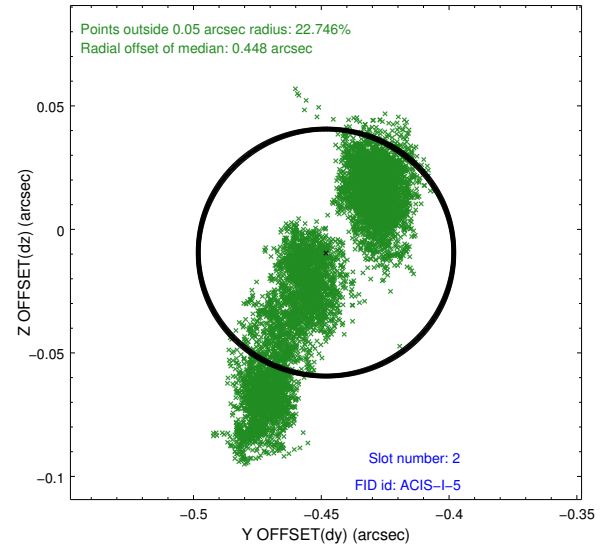
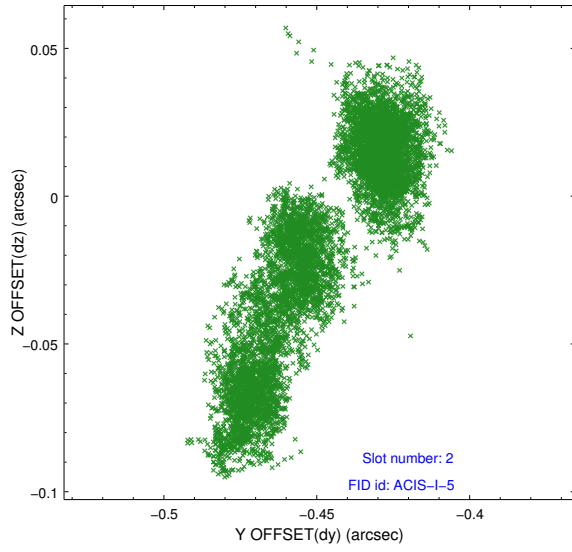
2.5.1 Slot 0



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)	2019.07.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.962759158015

A.2 Comments