

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 16662 - L2 Version 2
Chandra X-Ray Center

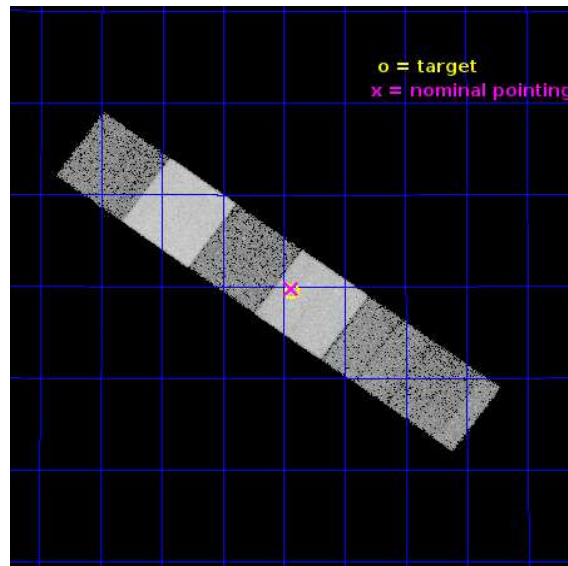
L2 Processing Date : Oct 26 2015

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1 Front

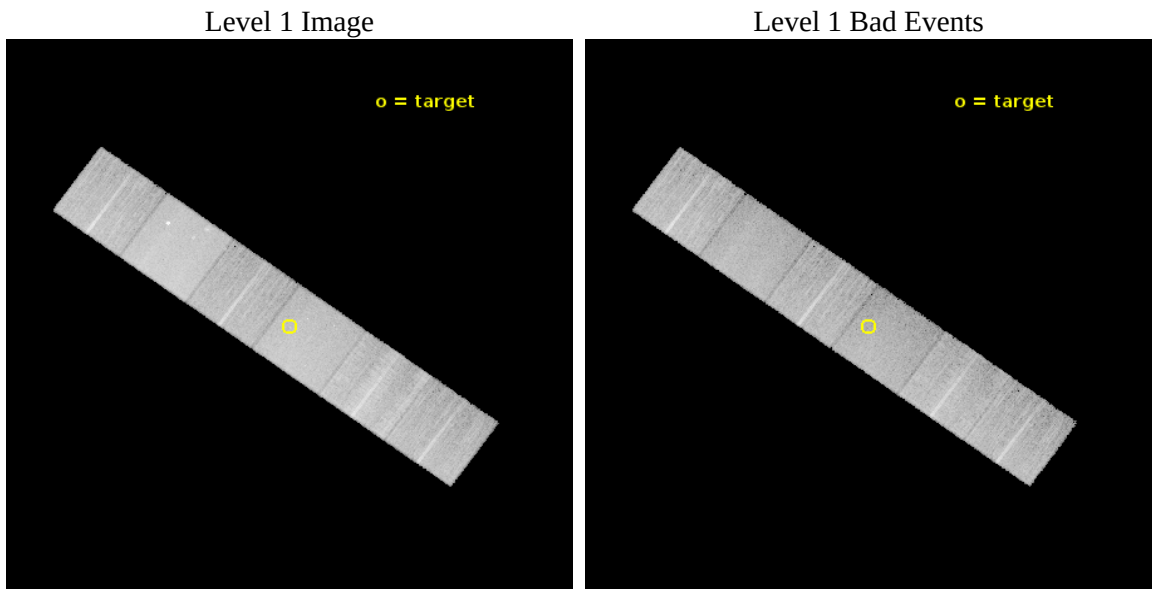
seq_num	200983	Sequence number
obs_id	16662	Observation id
title	An age-activity calibration for old low-mass stars	Proposal title
observer	Dr Katja Poppenhaeger	Principal investigator
object	NLTT28469	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	176.4825	Observer's specified target RA [deg]
dec_targ	31.824306	Observer's specified target Dec [deg]
ra_nom	176.48419495946	Nominal RA [deg]
dec_nom	31.829571363631	Nominal Dec [deg]
roll_nom	35.845664623433	Nominal Roll [deg]
revision	2	Processing version of data
ontime	18947.200282335	Sum of GTIs [s]
livetime	18707.279423726	Livetime [s]
ontime4	18947.200282335	Sum of GTIs [s]
ontime5	18947.200282335	Sum of GTIs [s]
ontime6	18947.200282335	Sum of GTIs [s]
ontime7	18947.200282335	Sum of GTIs [s]
ontime8	18947.200282335	Sum of GTIs [s]
ontime9	18947.200282335	Sum of GTIs [s]
l2events	176759	Number of level 2 events



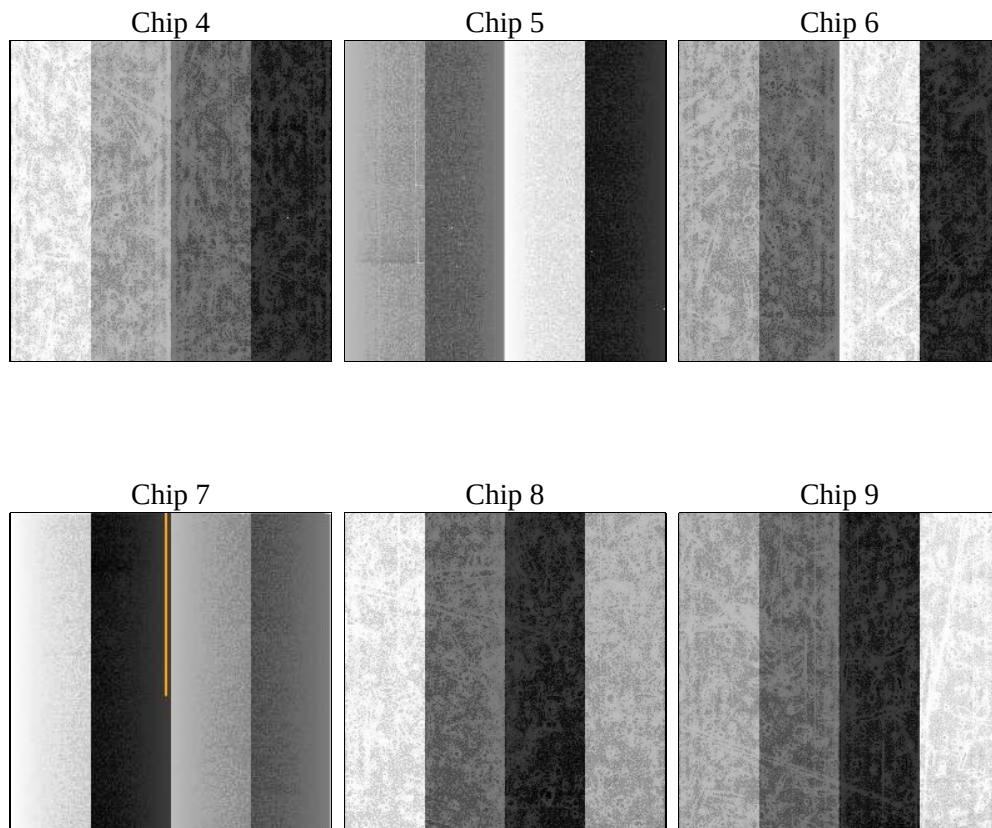
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	18947.200282335	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime4	18947.200282335	Sum of GTIs [s]
date	2015-10-26T15:59:12	Date and time of file creation	ontime5	18947.200282335	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	18947.200282335	Sum of GTIs [s]
			ontime7	18947.200282335	Sum of GTIs [s]
			ontime8	18947.200282335	Sum of GTIs [s]
			ontime9	18947.200282335	Sum of GTIs [s]
			l1events	758926	Number of level 1 events

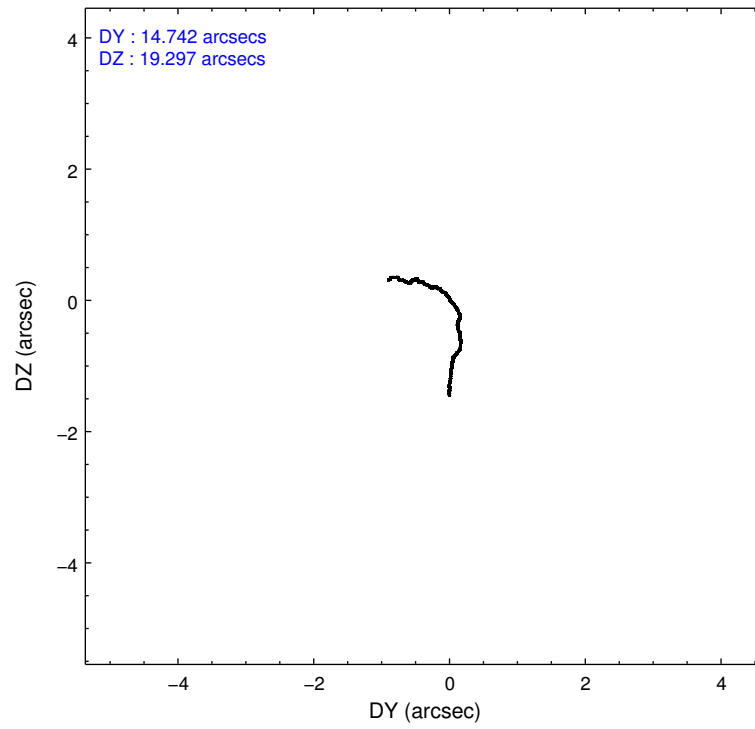
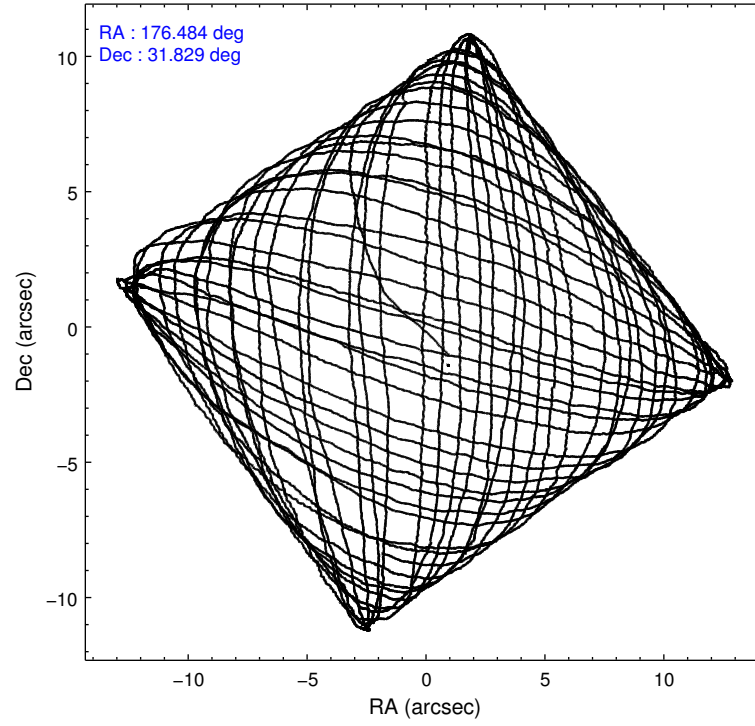
2.1.4 Events

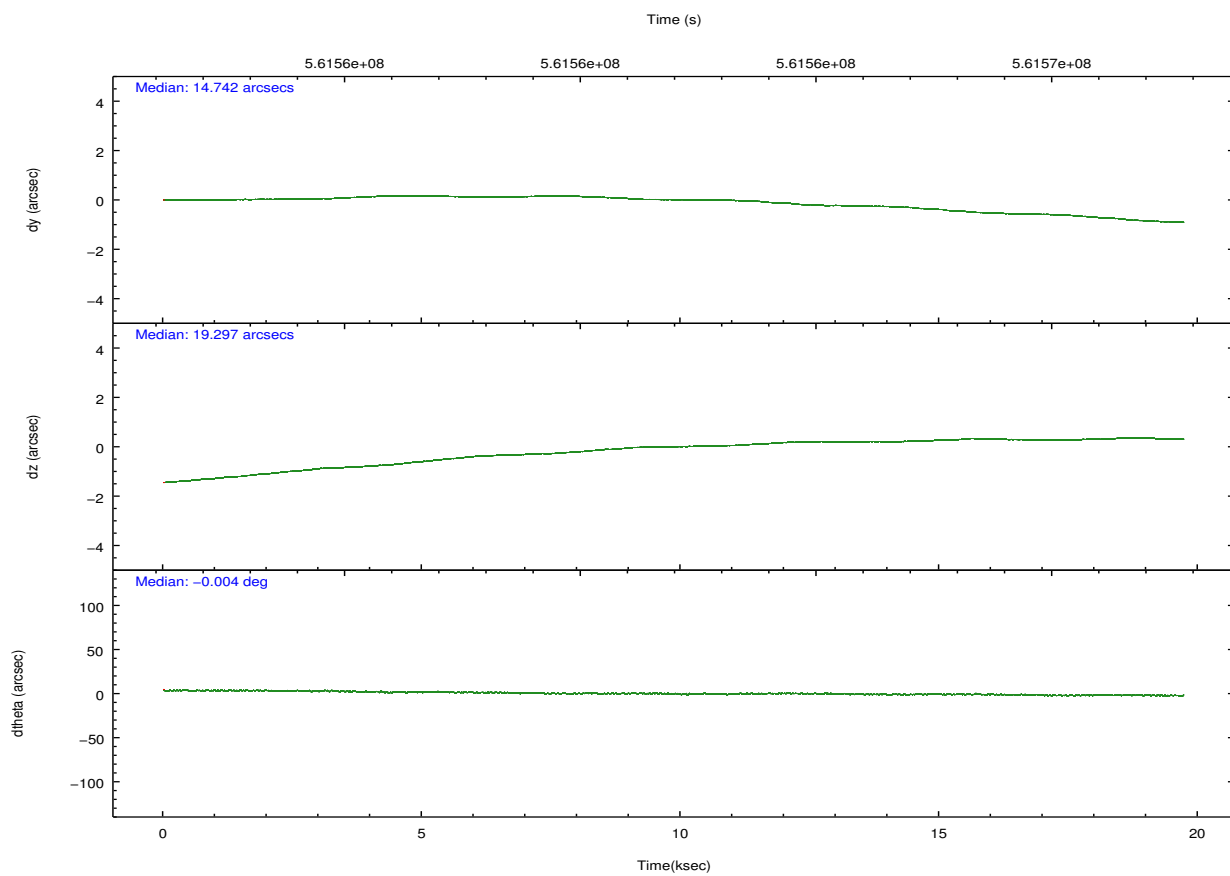
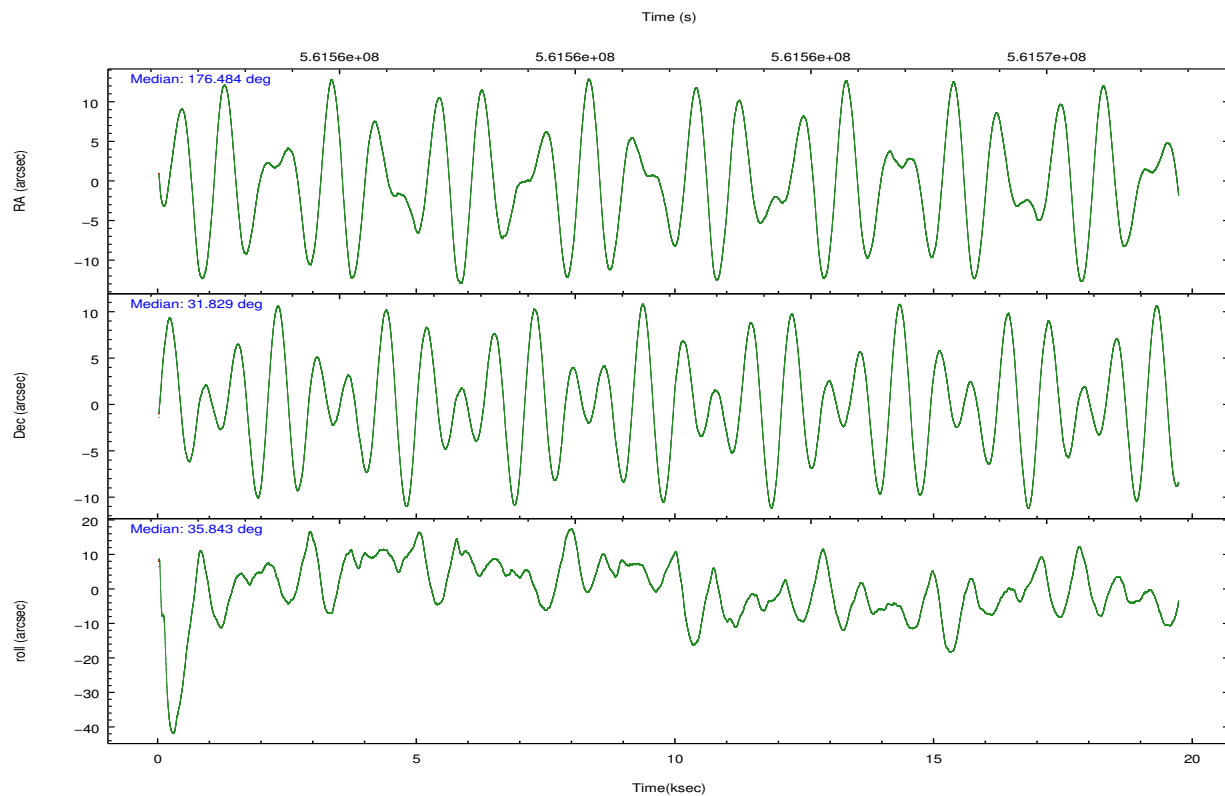
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	116718	163730	103450	134511	138634	101883	grade 0 events	4925	5799	3925	5088	10425	4487
rejected events	103650	85196	91661	75814	102147	89157		4%	3%	3%	3%	7%	4%
rejected %	88%	52%	88%	56%	73%	87%	grade 1 events	90	379	50	170	111	59
								0%	0%	0%	0%	0%	0%
							grade 2 events	3120	23938	2782	12245	8937	2906
								2%	14%	2%	9%	6%	2%
							grade 3 events	1424	2721	1152	4679	3553	1338
								1%	1%	1%	3%	2%	1%
							grade 4 events	1319	2599	1188	4813	3474	1239
								1%	1%	1%	3%	2%	1%
							grade 5 events	5157	11581	5078	13550	7640	5582
								4%	7%	4%	10%	5%	5%
							grade 6 events	2286	43500	2749	31889	10106	2759
								1%	26%	2%	23%	7%	2%
							grade 7 events	98397	73213	86526	62077	94388	83513
								84%	44%	83%	46%	68%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	176.471342	176.4841949594566	CCD I2 on	N	N
[deg] Pointing Dec	31.804363	31.82957136363085	CCD I3 on	N	N
[deg] Pointing Roll	35.695802	35.84566462343341	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.145094680475	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01257209746719923	CCD S4 on	O4	Y
[s] Observation start time (MET)	561552867.184000	561551640.73744	CCD S5 on	O2	Y
Observation start date	2015-10-18T10:53:19	2015-10-18T10:34:00	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	561571867.184000	561572833.12614	On-chip summing requested	N	N
Observation end date	2015-10-18T16:09:59	2015-10-18T16:27:13	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



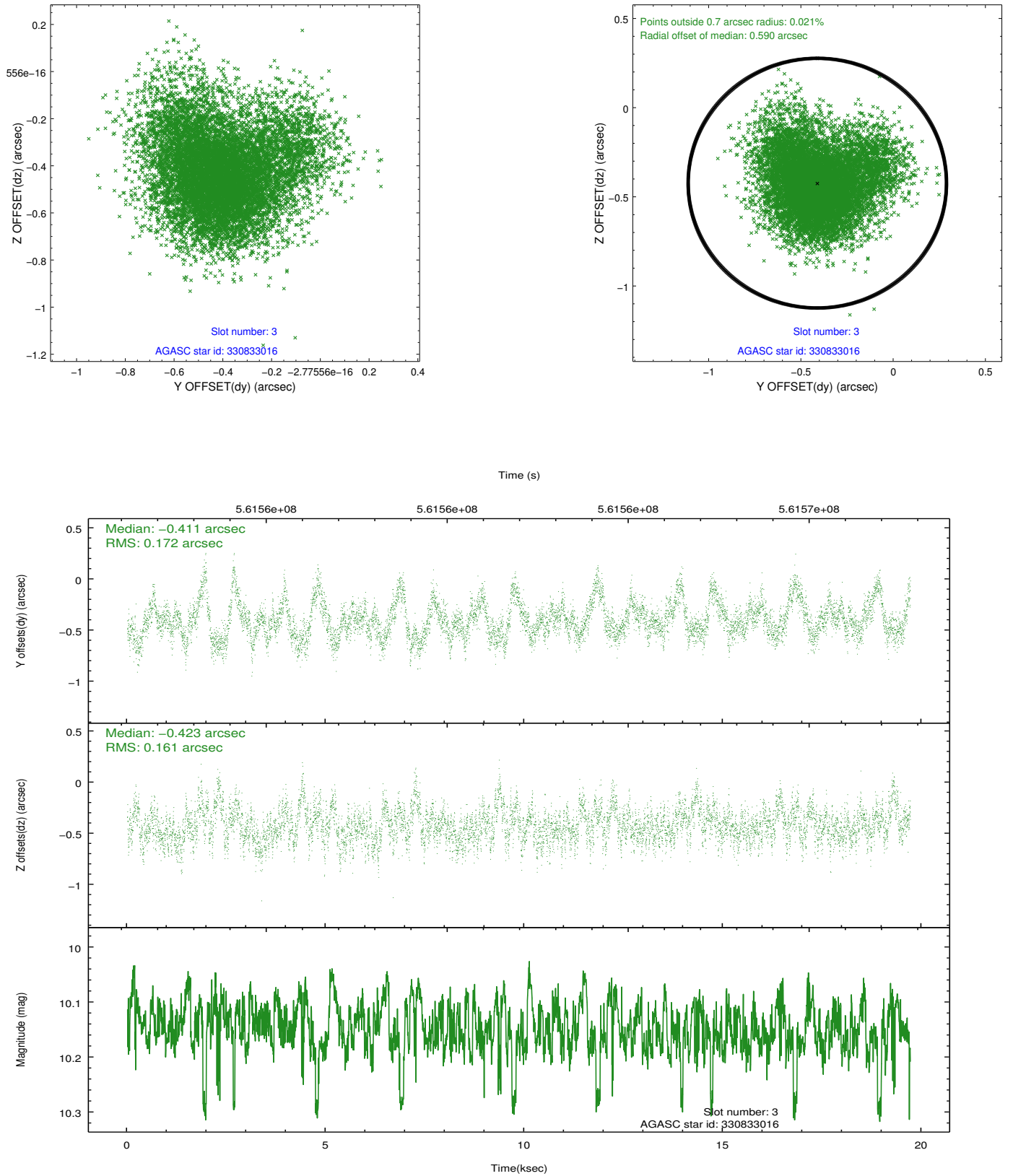


Slot Statistics

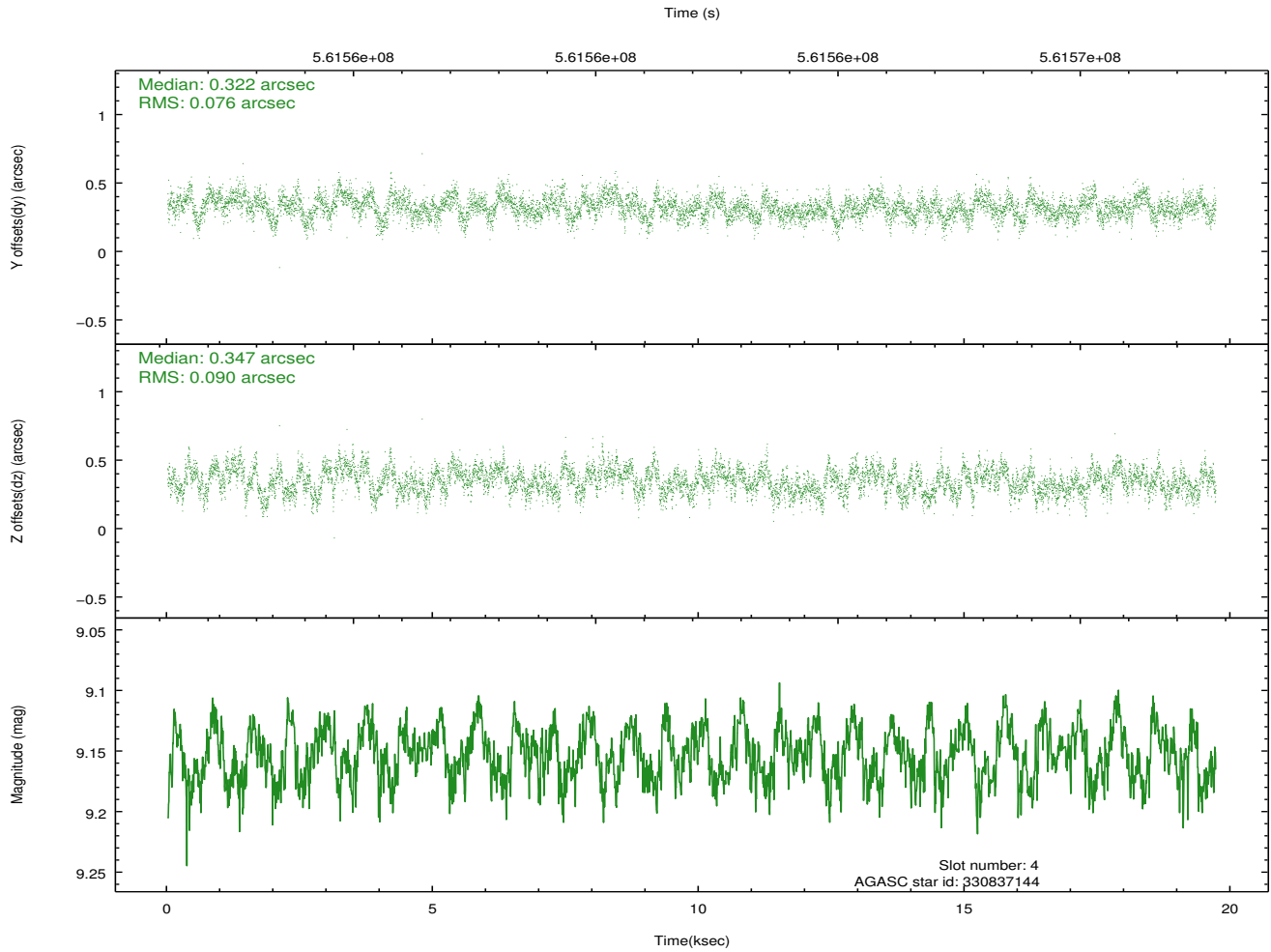
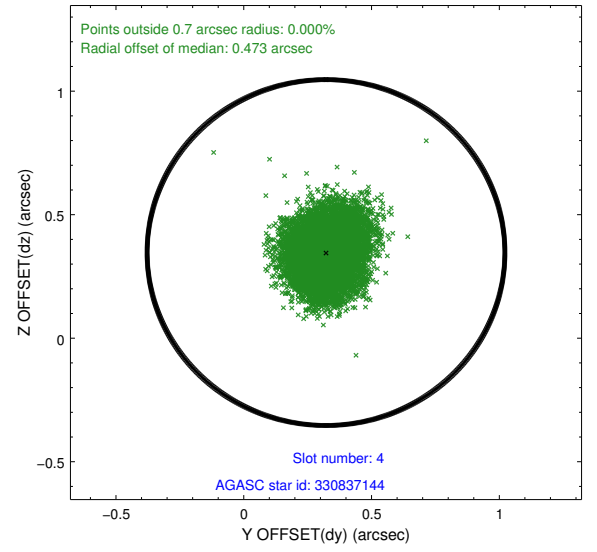
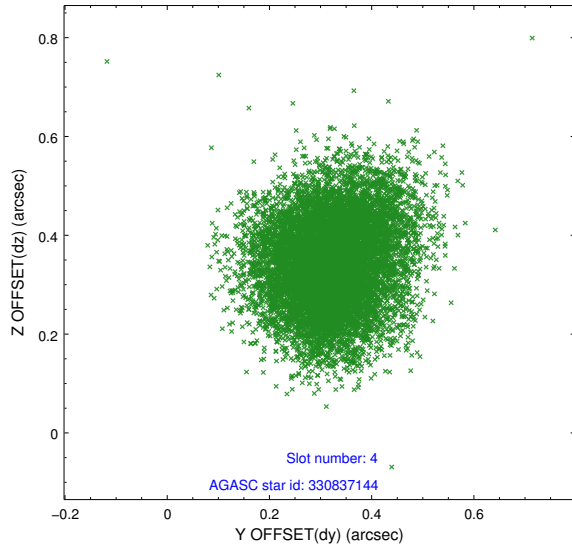
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.11	4807	-0.179	-0.123	0.021	0.031	0.000000	0.000000	-767.72	-1740.60
1	FID		ACIS-S-4	7.21	4809	0.447	0.121	0.010	0.023	0.000000	0.000000	2146.09	167.93
2	FID		ACIS-S-5	7.23	4808	-0.299	0.009	0.013	0.029	0.000000	0.000000	-1820.44	161.71
3	GUIDE	used	330833016	10.15	9604	-0.411	-0.423	0.251	0.415	176.379825	32.204341	613.04	1329.64
4	GUIDE	used	330837144	9.15	9610	0.322	0.347	0.126	0.200	175.994876	31.330082	-2183.81	-528.86
5	GUIDE	used	330837976	9.99	9569	-0.004	0.162	0.255	0.390	177.153532	31.892514	1881.48	-952.23
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	GUIDE	used	330843984	8.86	9609	0.085	-0.074	0.154	0.271	175.953687	31.758017	-1381.96	792.22

2.4 Star Slots

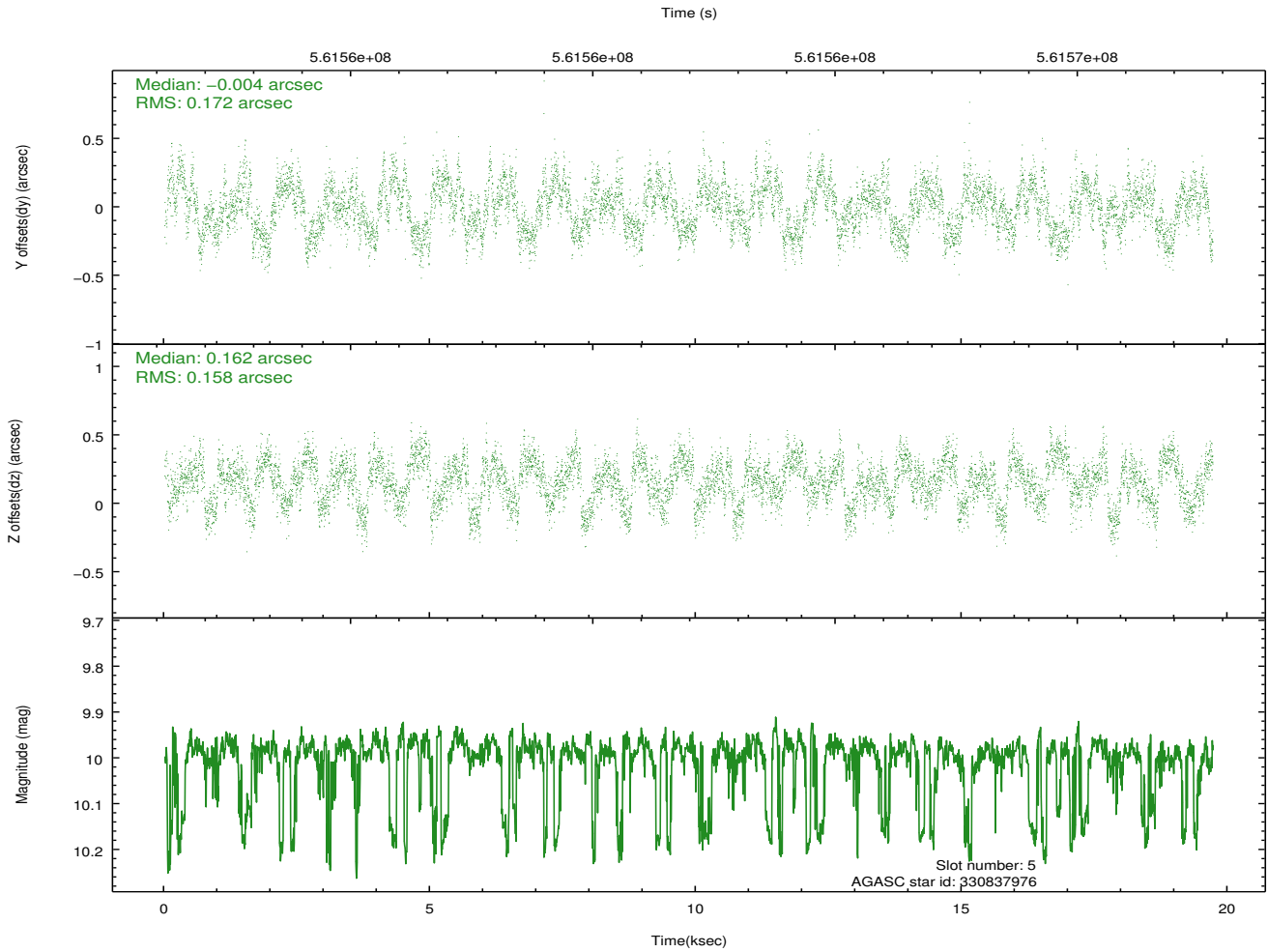
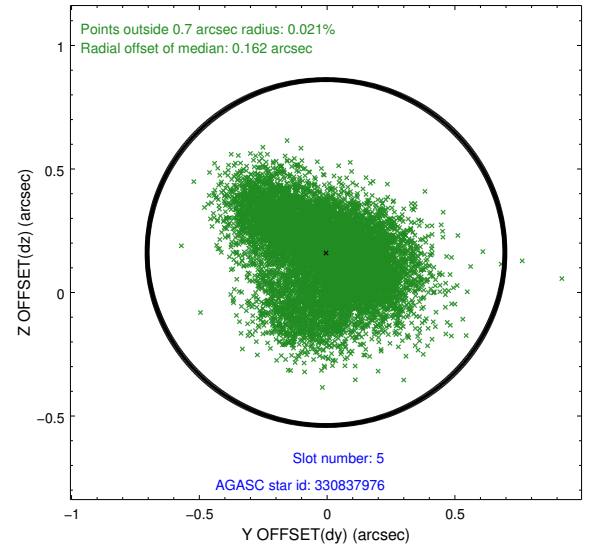
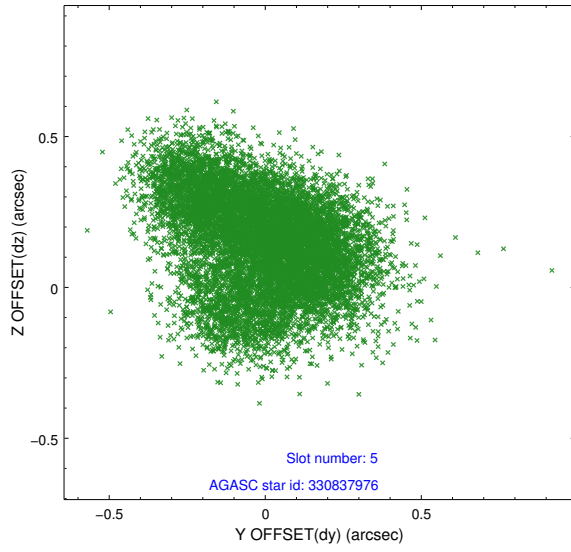
2.4.1 Slot 3



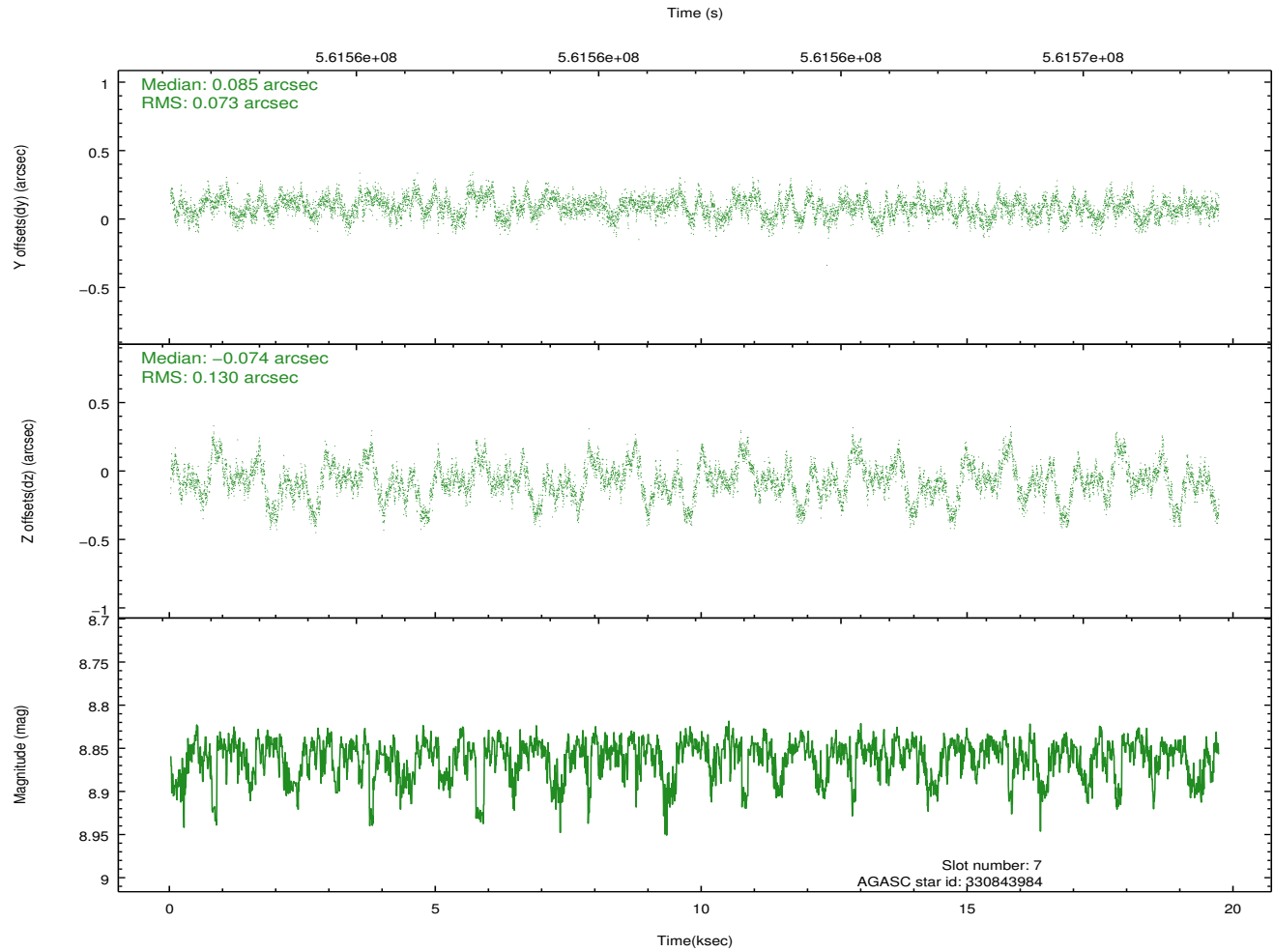
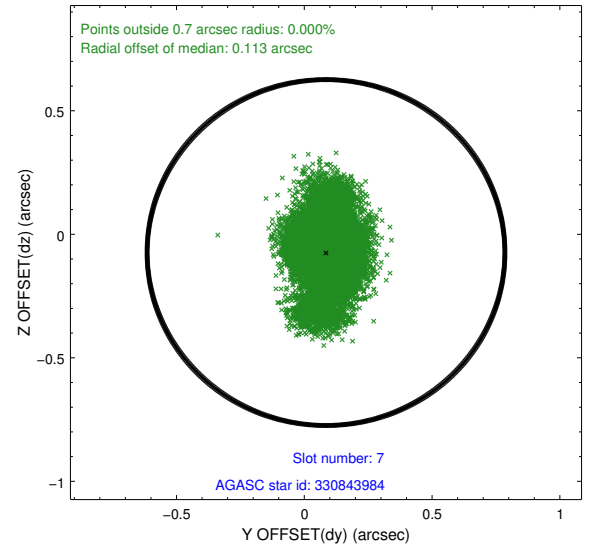
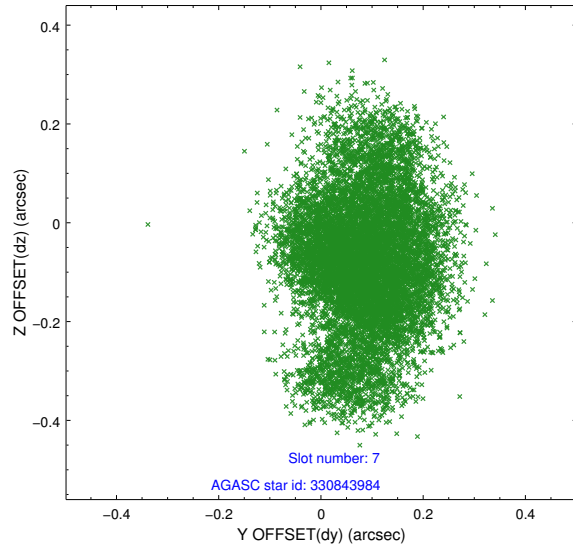
2.4.2 Slot 4



2.4.3 Slot 5

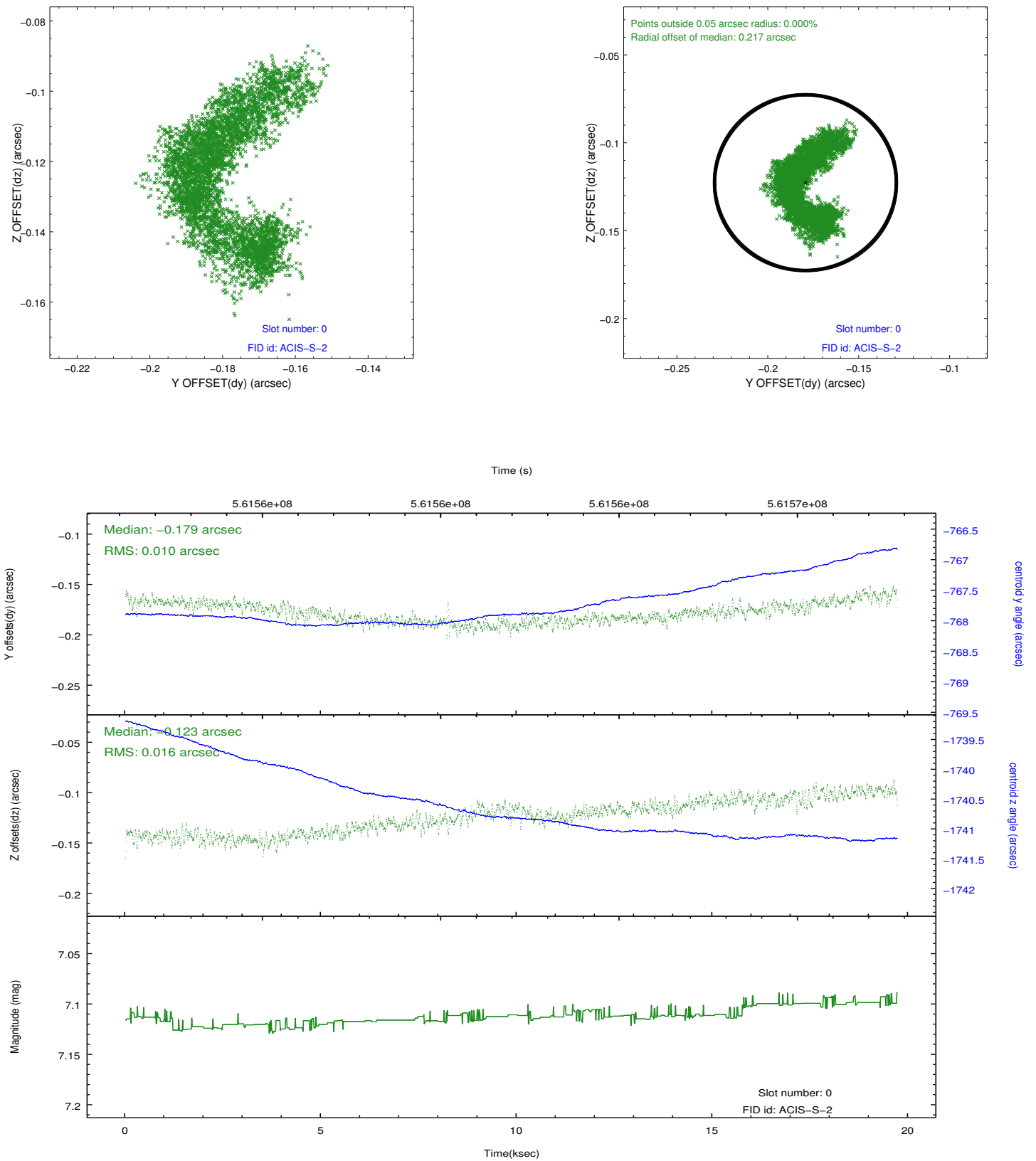


2.4.4 Slot 7

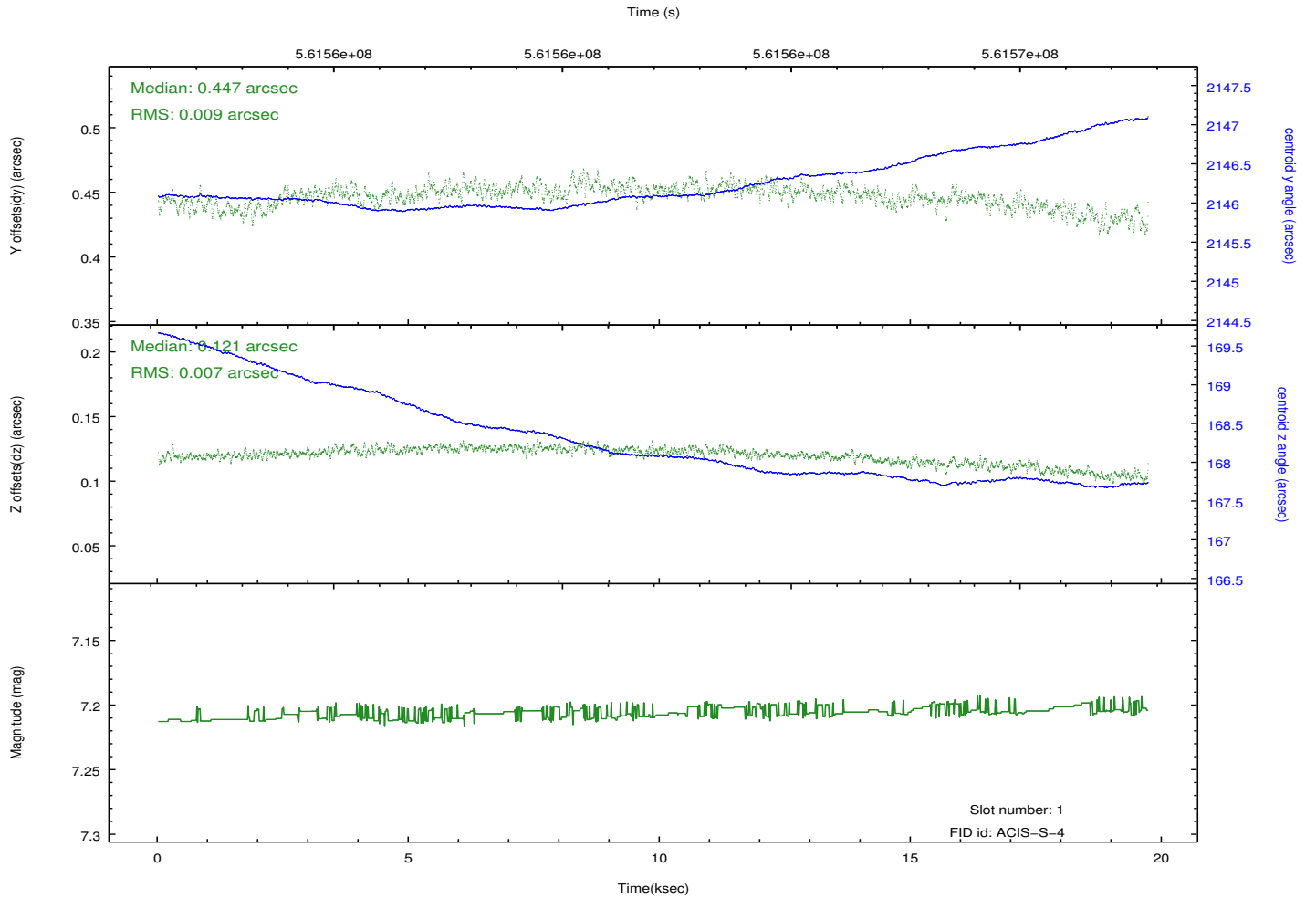
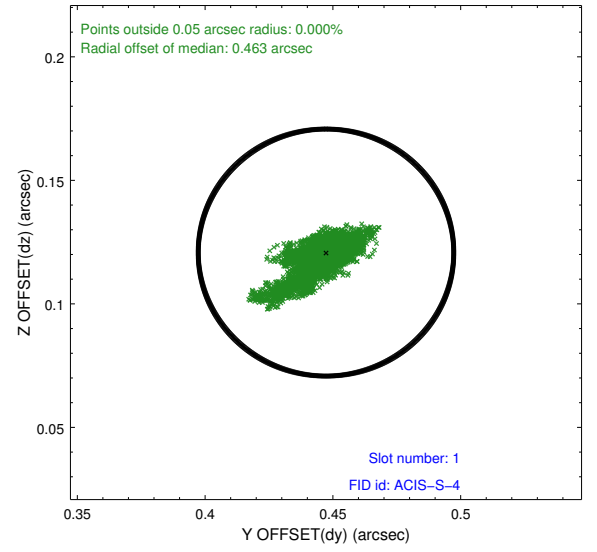
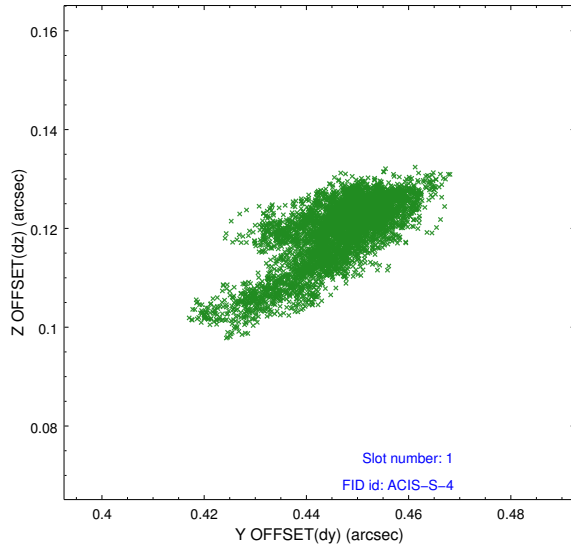


2.5 FID Slots

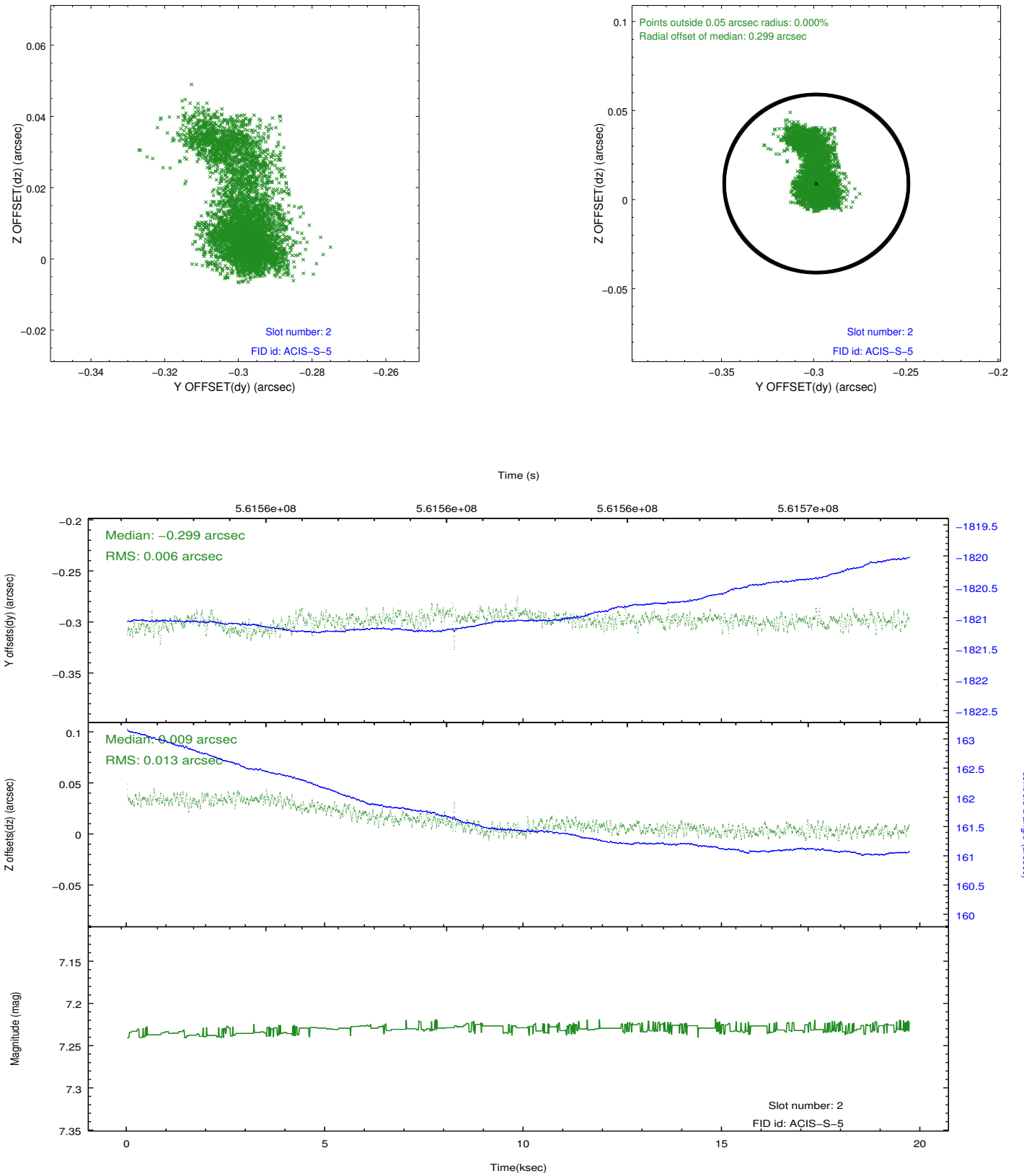
2.5.1 Slot 0



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)	2015.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.947200282335

A.2 Comments

The guide star in slot 6 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.