

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20991 - L2 Version 1
Chandra X-Ray Center

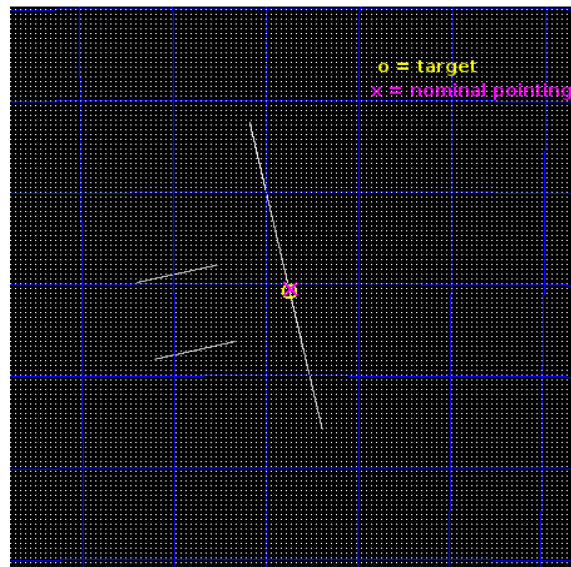
L2 Processing Date : Mar 9 2018

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1 Front

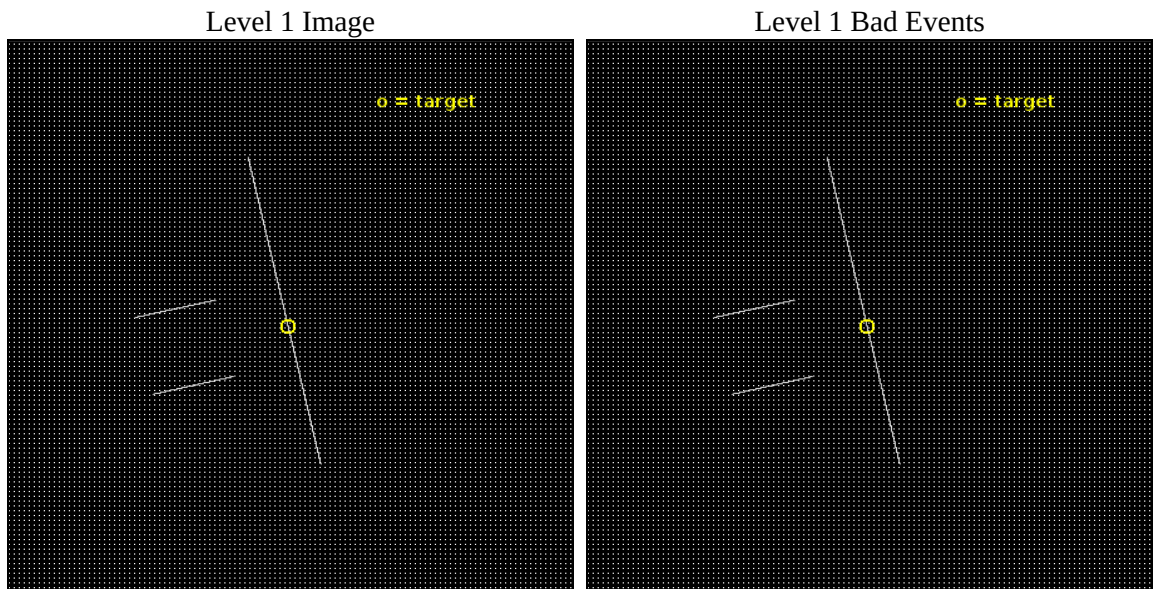
seq_num	502867	Sequence number
obs_id	20991	Observation id
title	Target-of-Opportunity Chandra Observations of Magnetars in Outburst	
observer	Victoria Kaspi	Principal investigator
object	PSR J1622-4950	Source name
ra_targ	245.686667	Observer's specified target RA [deg]
dec_targ	-49.848444	Observer's specified target Dec [deg]
ra_nom	245.68102308741	Nominal RA [deg]
dec_nom	-49.842758871047	Nominal Dec [deg]
roll_nom	77.152276351657	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20077.0	Sum of GTIs [s]
livetime	19998.57421875	Livetime [s]
ontime2	20077.0	Sum of GTIs [s]
ontime3	20077.0	Sum of GTIs [s]
ontime5	20077.0	Sum of GTIs [s]
ontime6	20077.0	Sum of GTIs [s]
ontime7	20077.0	Sum of GTIs [s]
ontime8	20077.0	Sum of GTIs [s]
l2events	286072	Number of level 2 events



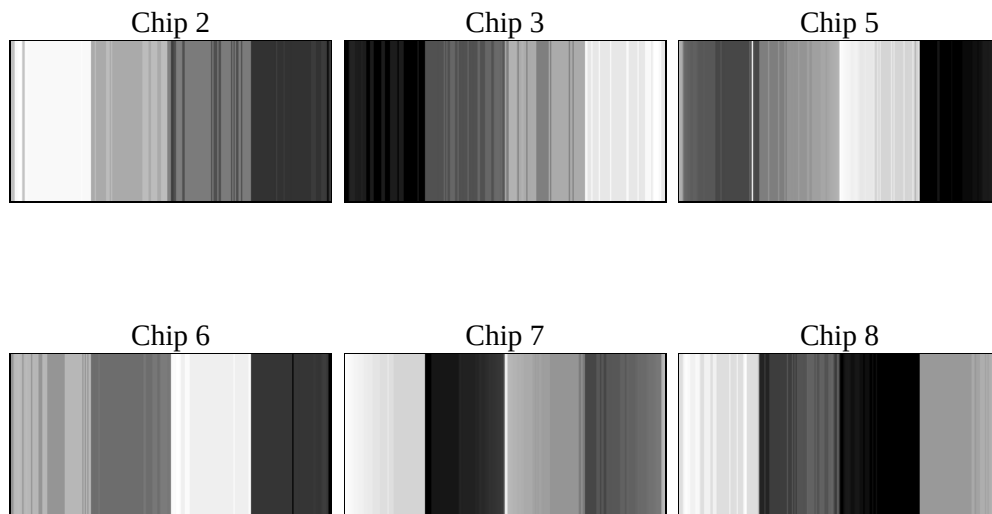
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	20077.0	Sum of GTIs [s]
caldsver	4.7.7	 	ontime2	20077.0	Sum of GTIs [s]
date	2018-03-09T08:45:02	Date and time of file creation	ontime3	20077.0	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	20077.0	Sum of GTIs [s]
			ontime6	20077.0	Sum of GTIs [s]
			ontime7	20077.0	Sum of GTIs [s]
			ontime8	20077.0	Sum of GTIs [s]
			l1events	1772786	Number of level 1 events

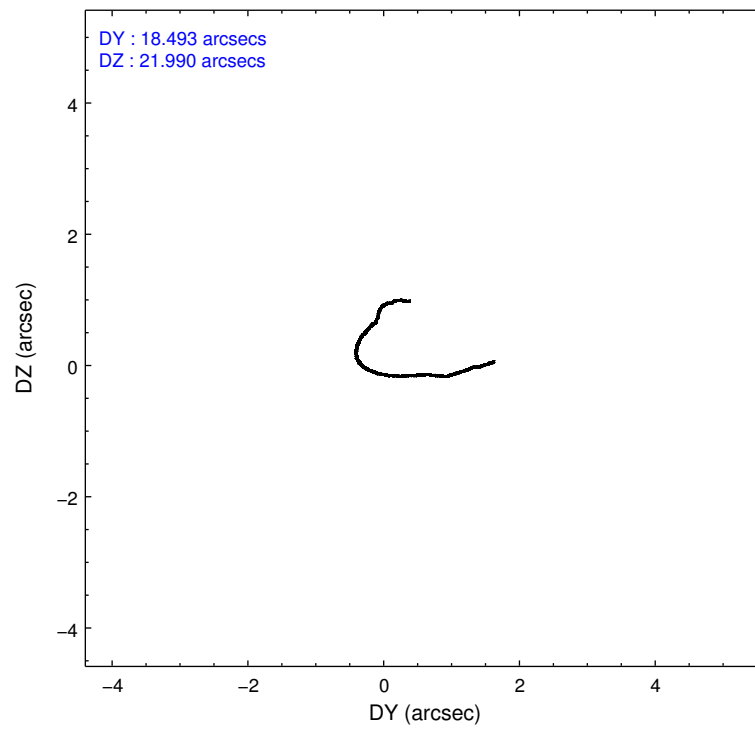
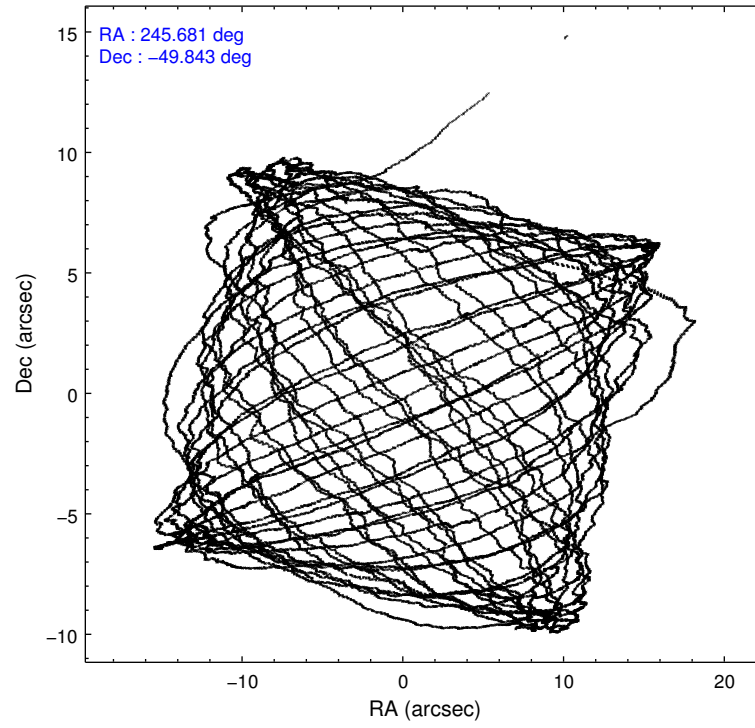
2.1.4 Events

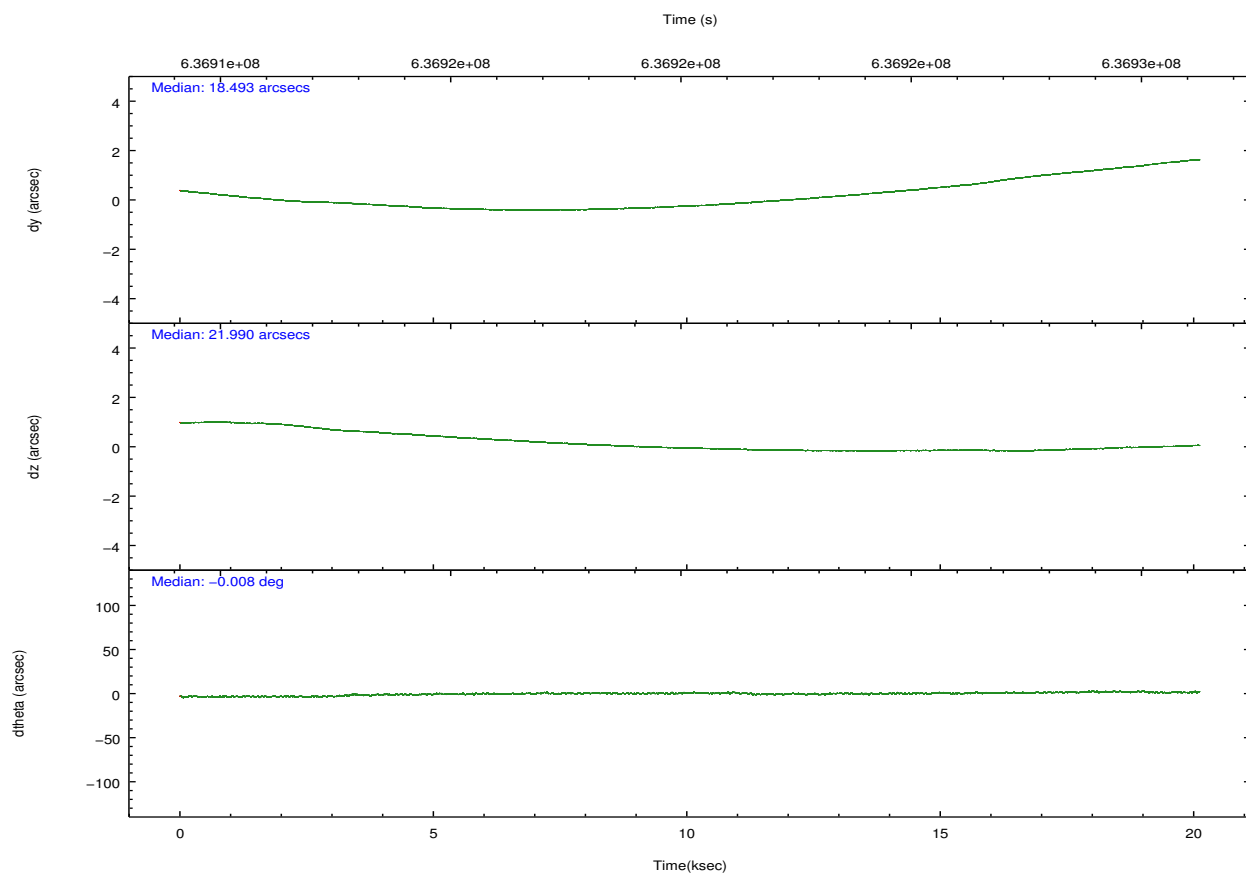
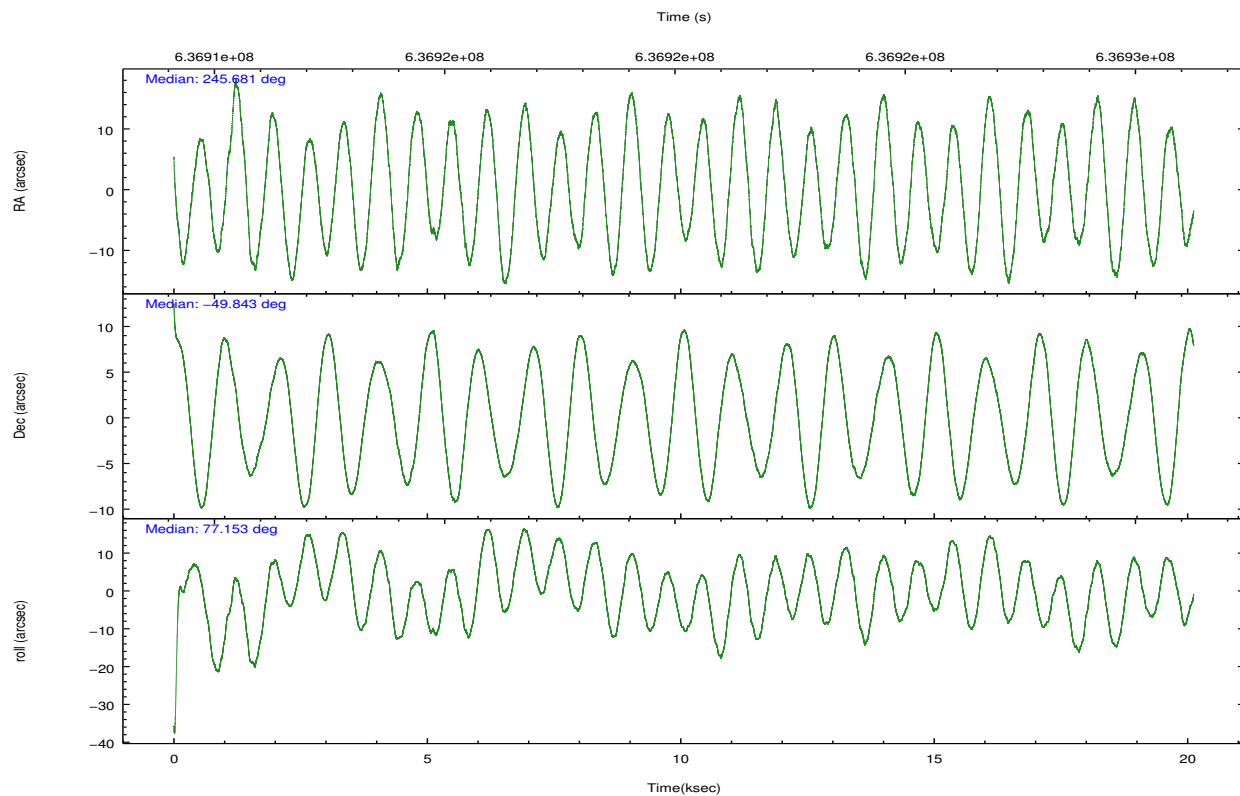
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	255932	262392	321102	249083	277633	406644	grade 0 events	2817	3137	7959	2984	5659	16371
rejected events	233347	238217	197263	223309	190121	333979		1%	1%	2%	1%	2%	4%
rejected %	91%	90%	61%	89%	68%	82%	grade 1 events	159	149	269	141	264	321
								0%	0%	0%	0%	0%	0%
							grade 2 events	8736	8809	39945	9926	23935	22059
								3%	3%	12%	3%	8%	5%
							grade 3 events	2837	3278	2657	3067	4005	7631
								1%	1%	0%	1%	1%	1%
							grade 4 events	2890	2917	2627	2877	4060	7190
								1%	1%	0%	1%	1%	1%
							grade 5 events	6292	7143	15896	7371	18022	11156
								2%	2%	4%	2%	6%	2%
							grade 6 events	5309	6041	70671	6922	49882	19454
								2%	2%	22%	2%	17%	4%
							grade 7 events	226892	230918	181078	215795	171806	322462
								88%	88%	56%	86%	61%	79%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	245.694147	245.681023087407	CCD I2 on	O2	Y
[deg] Pointing Dec	-49.868890	-49.84275887104697	CCD I3 on	O3	Y
[deg] Pointing Roll	77.005719	77.15227635165724	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	636910270.184000	636909288.32856	CCD S5 on	N	N
Observation start date	2018-03-08T15:30:01	2018-03-08T15:14:48	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	636930270.184000	636931058.30485	On-chip summing requested	N	N
Observation end date	2018-03-08T21:03:21	2018-03-08T21:17:38	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

2.3 Aspect



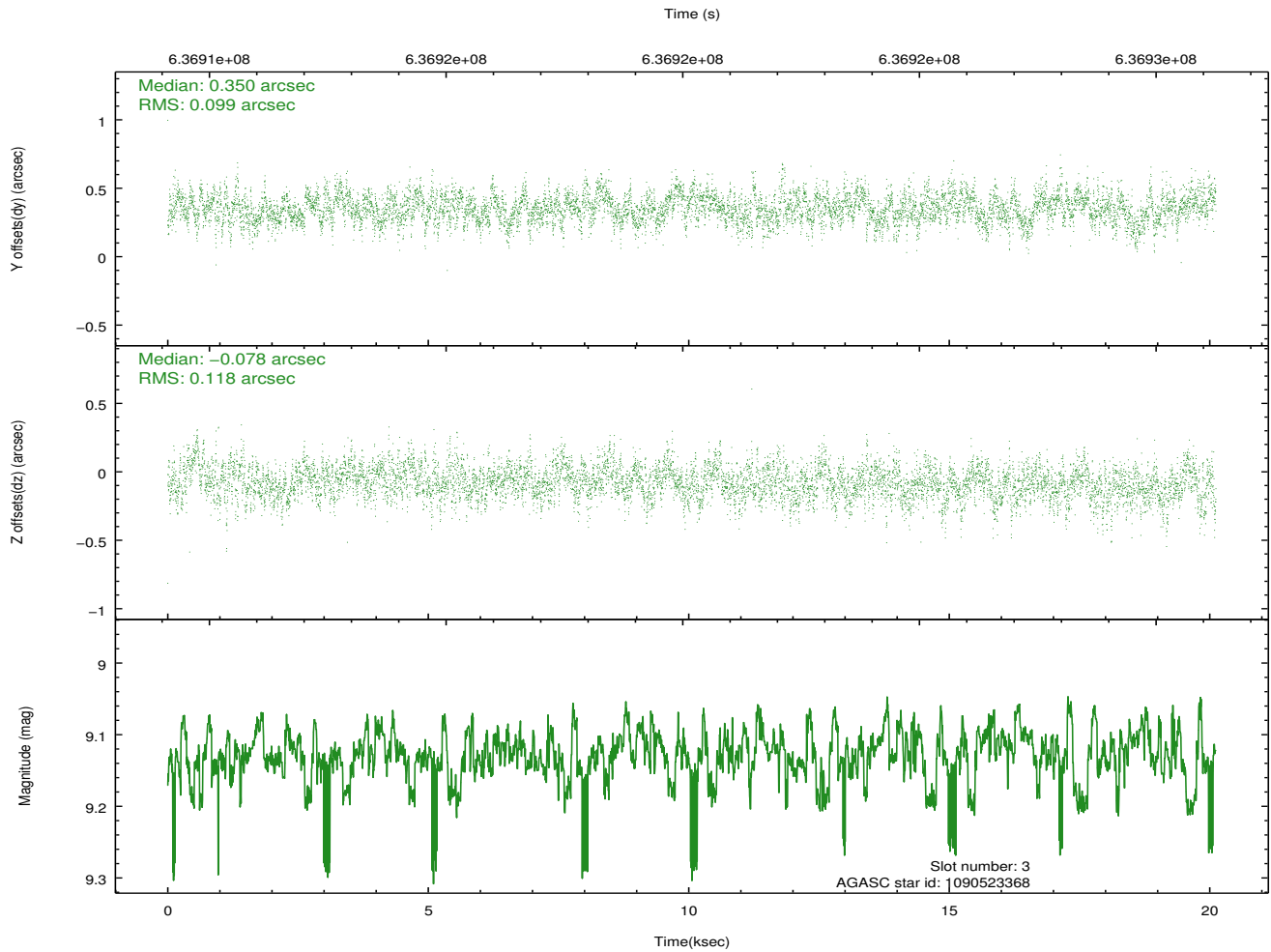
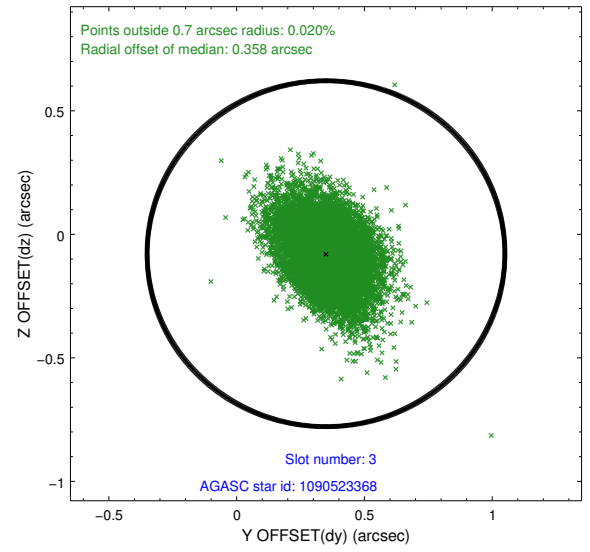
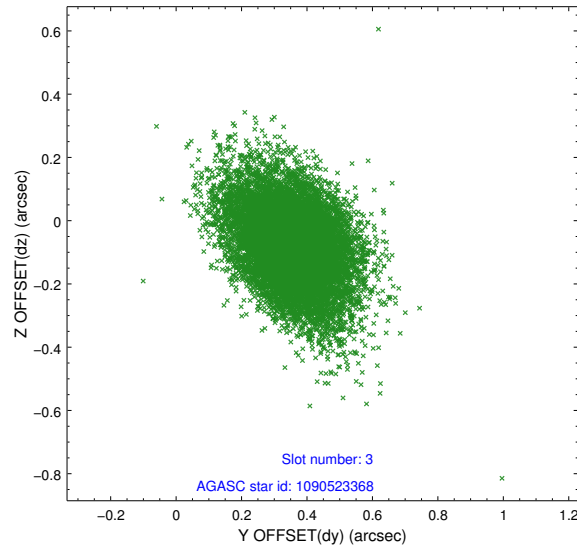


Slot Statistics

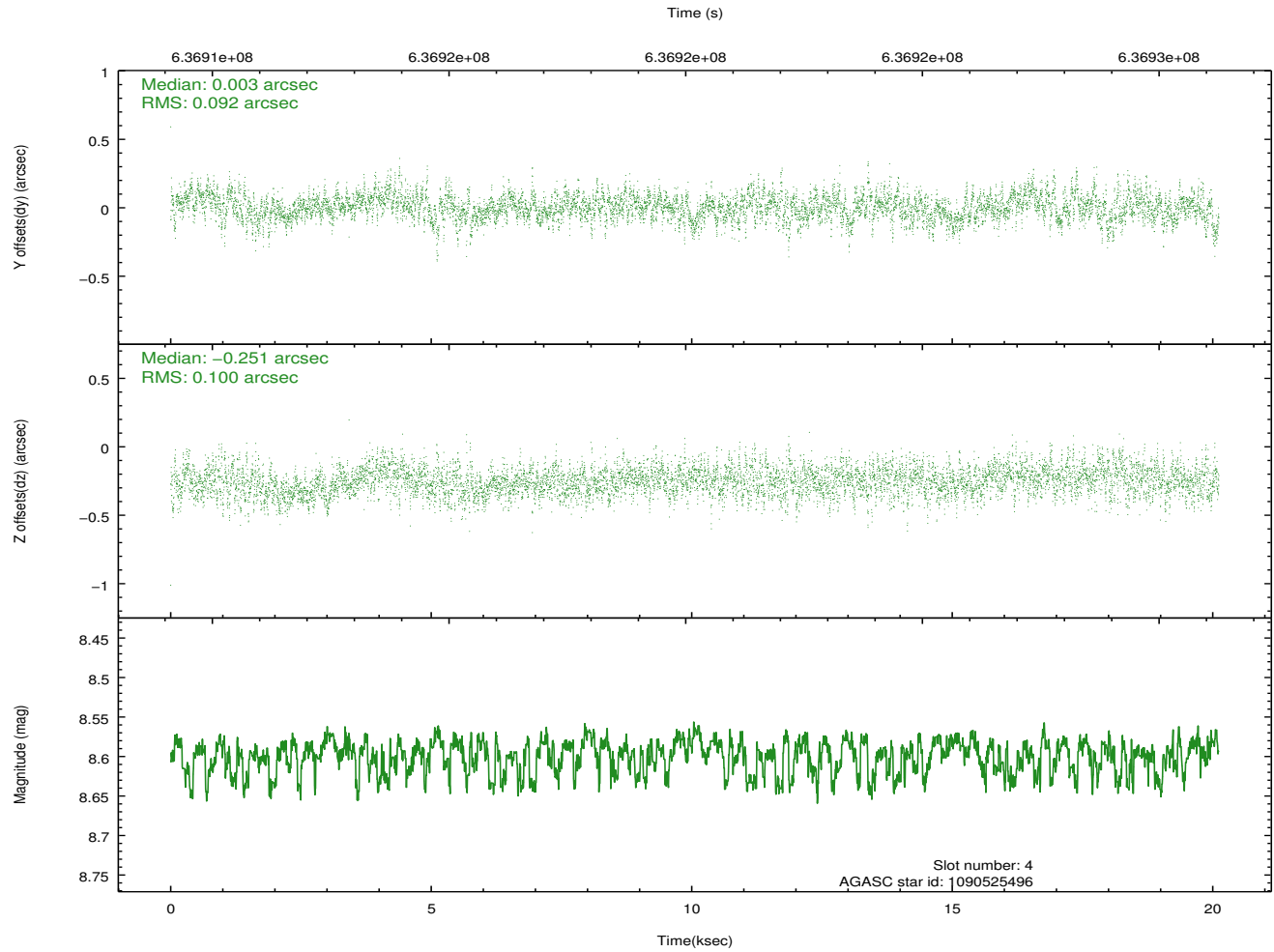
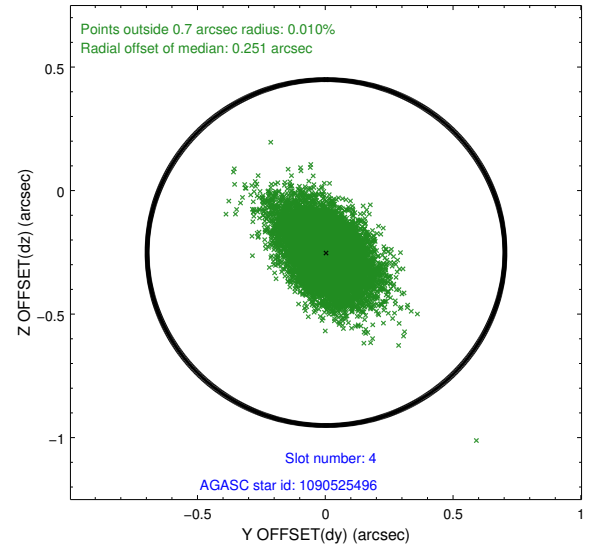
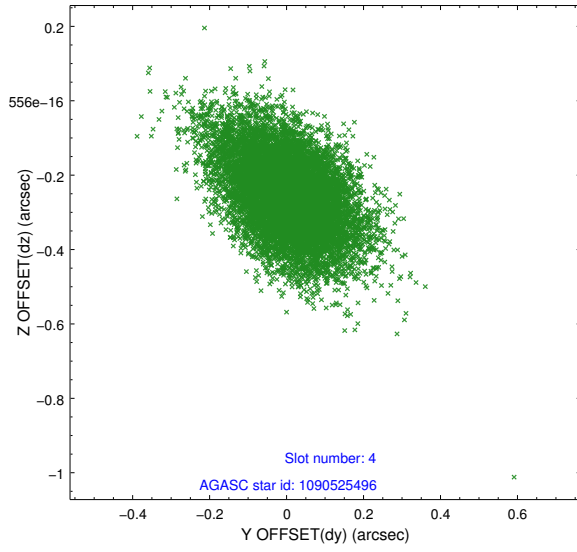
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.10	4908	0.308	-0.065	0.014	0.030	0.000000	0.000000	924.67	-1739.33
1	FID		ACIS-S-2	7.04	4908	-0.182	-0.081	0.018	0.031	0.000000	0.000000	-771.62	-1744.19
2	FID		ACIS-S-5	7.12	4907	-0.152	0.151	0.015	0.028	0.000000	0.000000	-1825.12	158.10
3	GUIDE	used	1090523368	9.13	9802	0.350	-0.078	0.159	0.272	245.173503	-50.148014	-1253.48	943.46
4	GUIDE	used	1090525496	8.60	9811	0.003	-0.251	0.139	0.241	244.777039	-50.152945	-1484.96	1828.25
5	GUIDE	used	1090522688	8.10	9812	-0.501	-0.124	0.123	0.234	245.358664	-49.397960	1472.75	1146.74
6	GUIDE	used	1090519800	8.82	9806	-0.125	-0.028	0.161	0.271	245.591117	-49.628512	788.94	428.71
7	GUIDE	used	1090531048	8.35	9808	0.275	0.479	0.141	0.242	246.008201	-50.442227	-1850.50	-1165.57

2.4 Star Slots

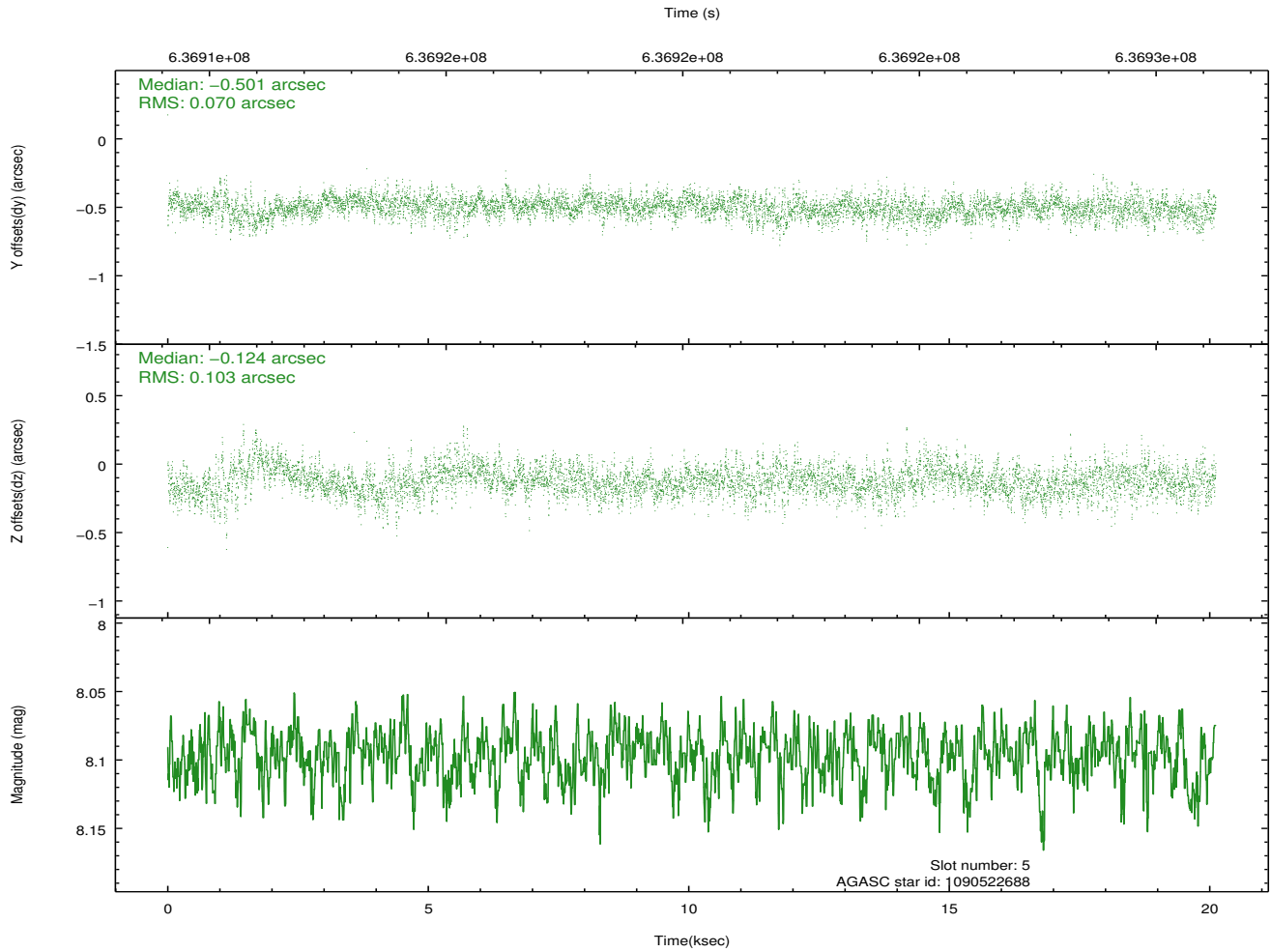
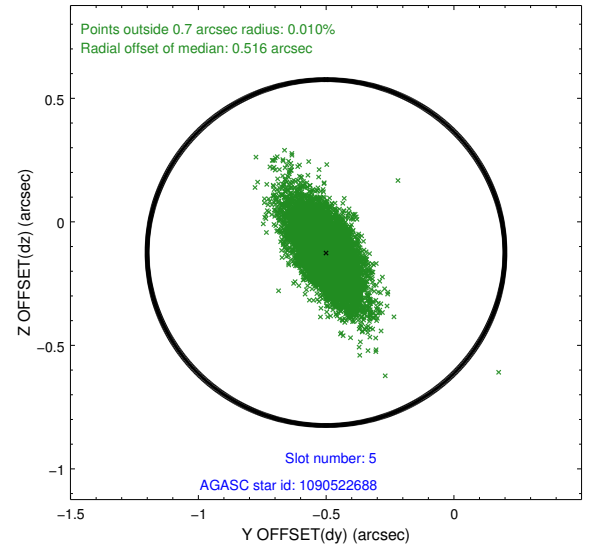
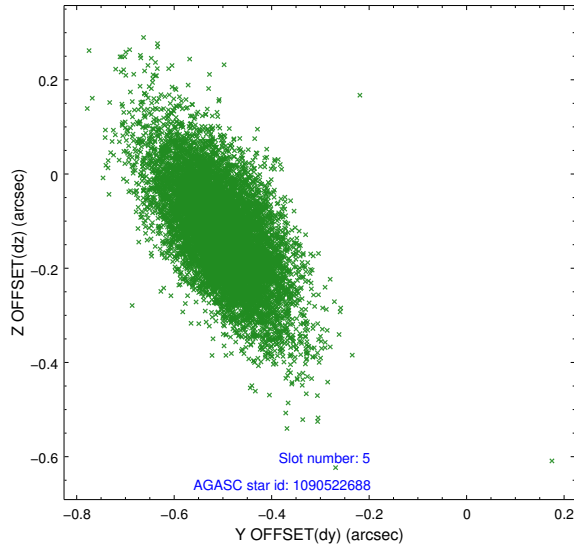
2.4.1 Slot 3



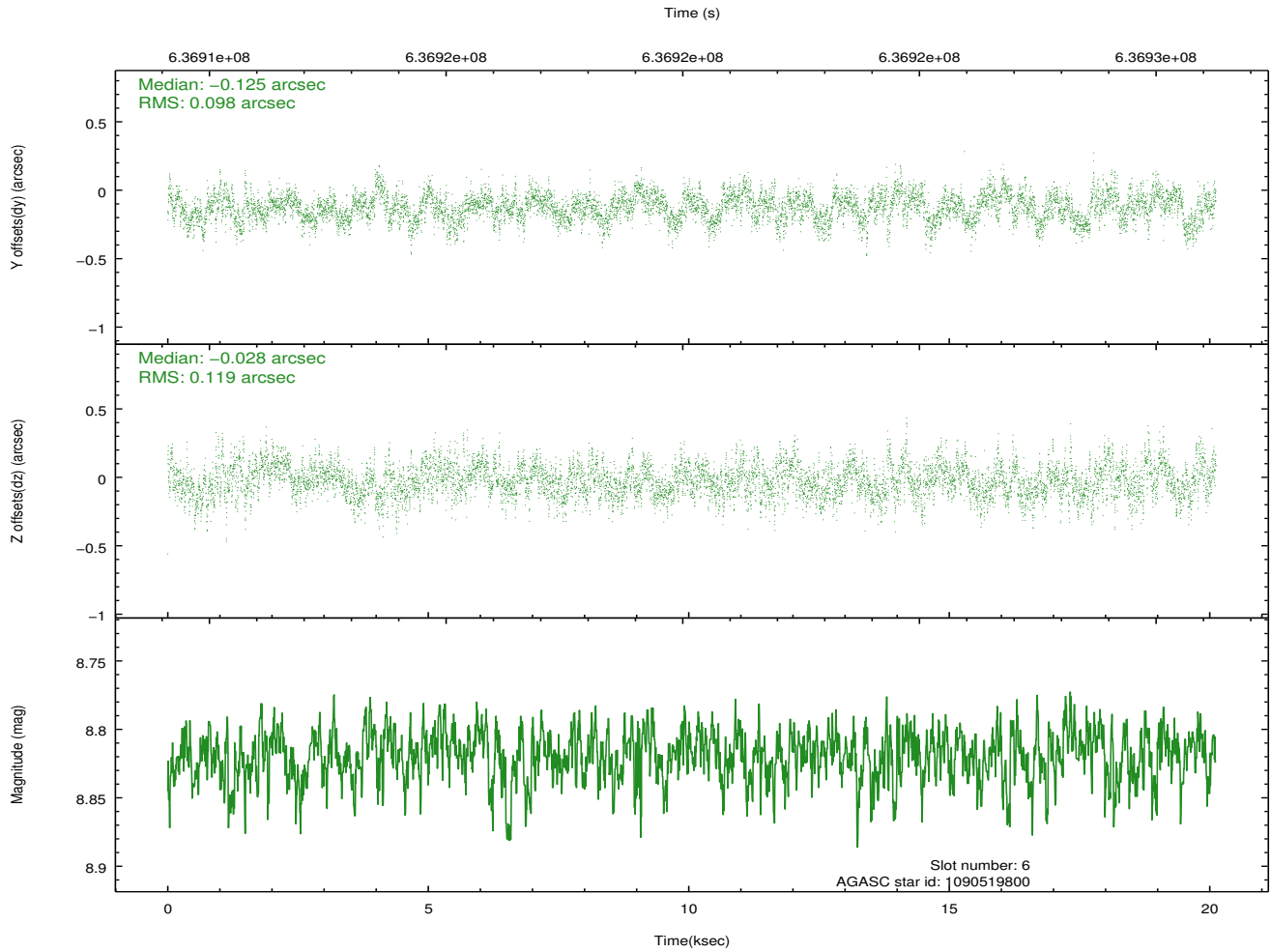
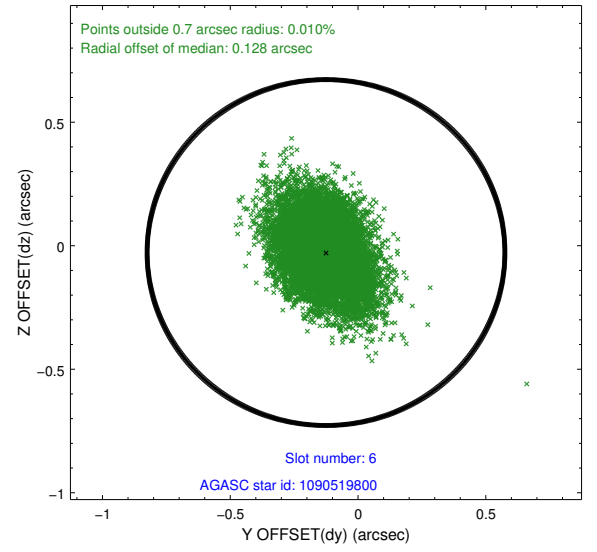
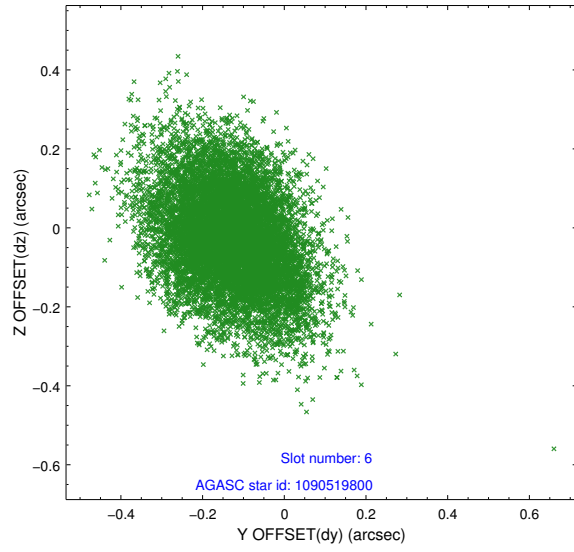
2.4.2 Slot 4



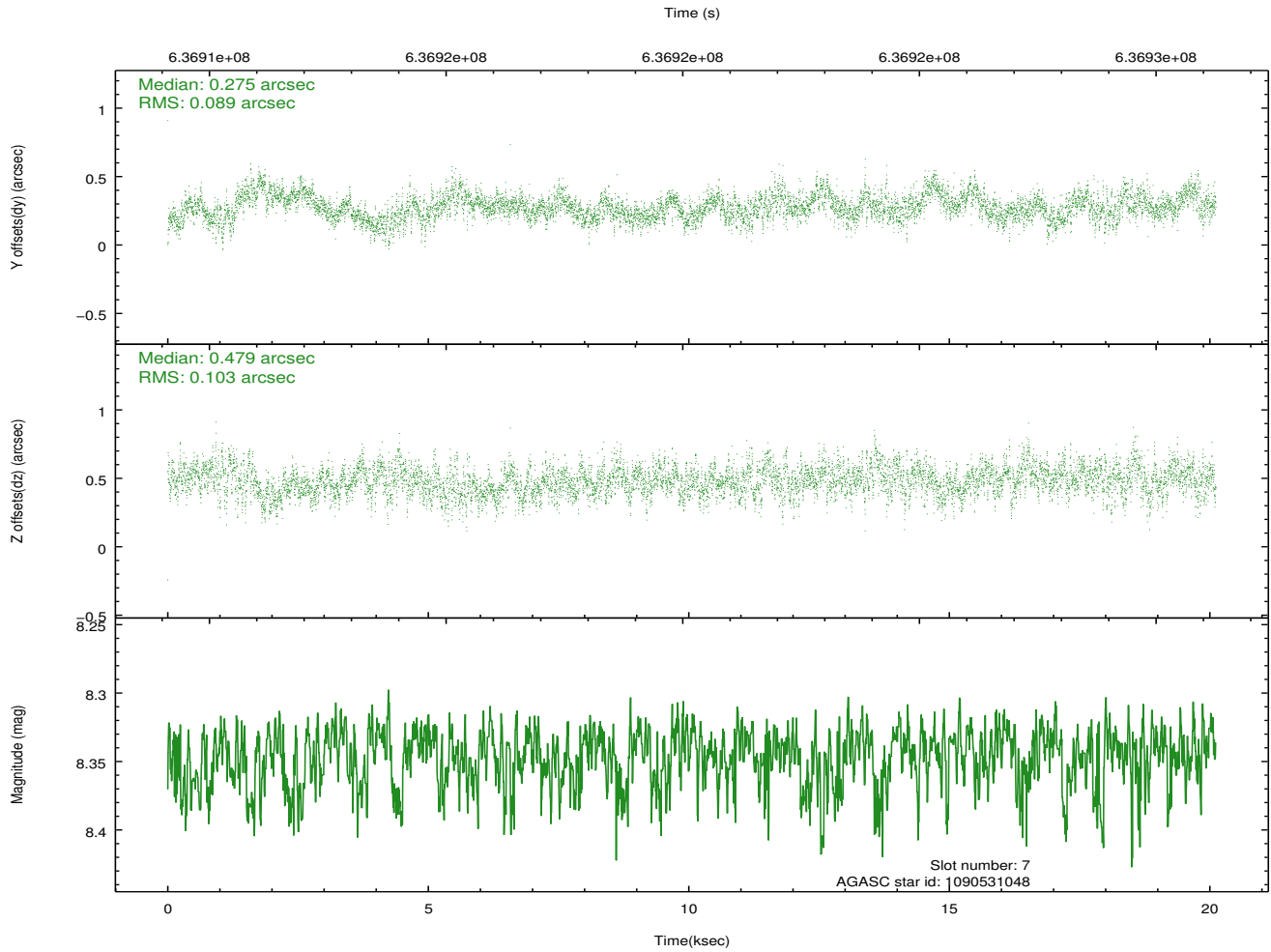
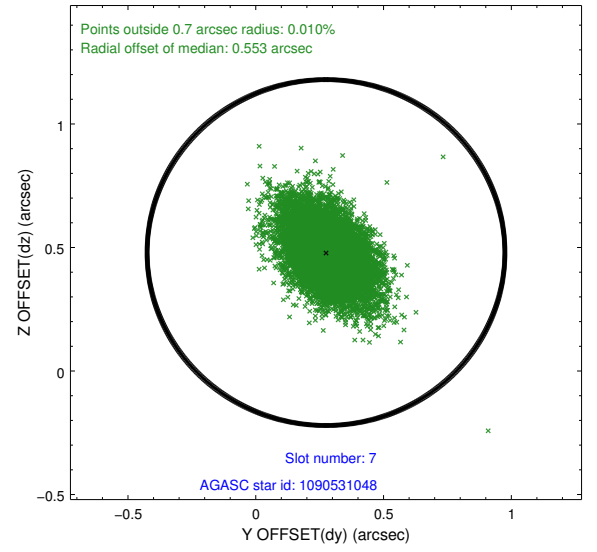
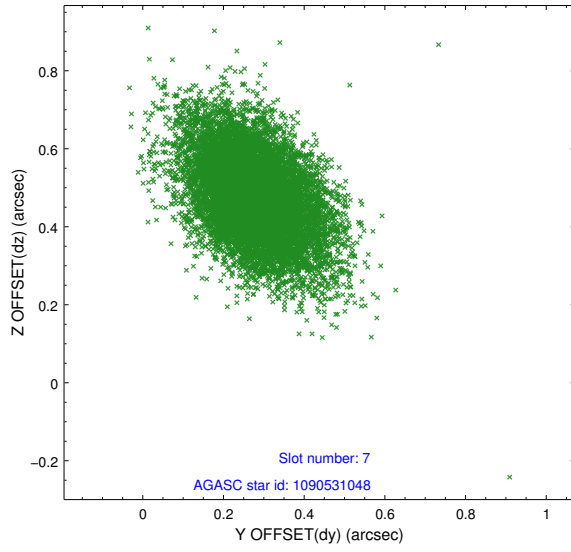
2.4.3 Slot 5



2.4.4 Slot 6

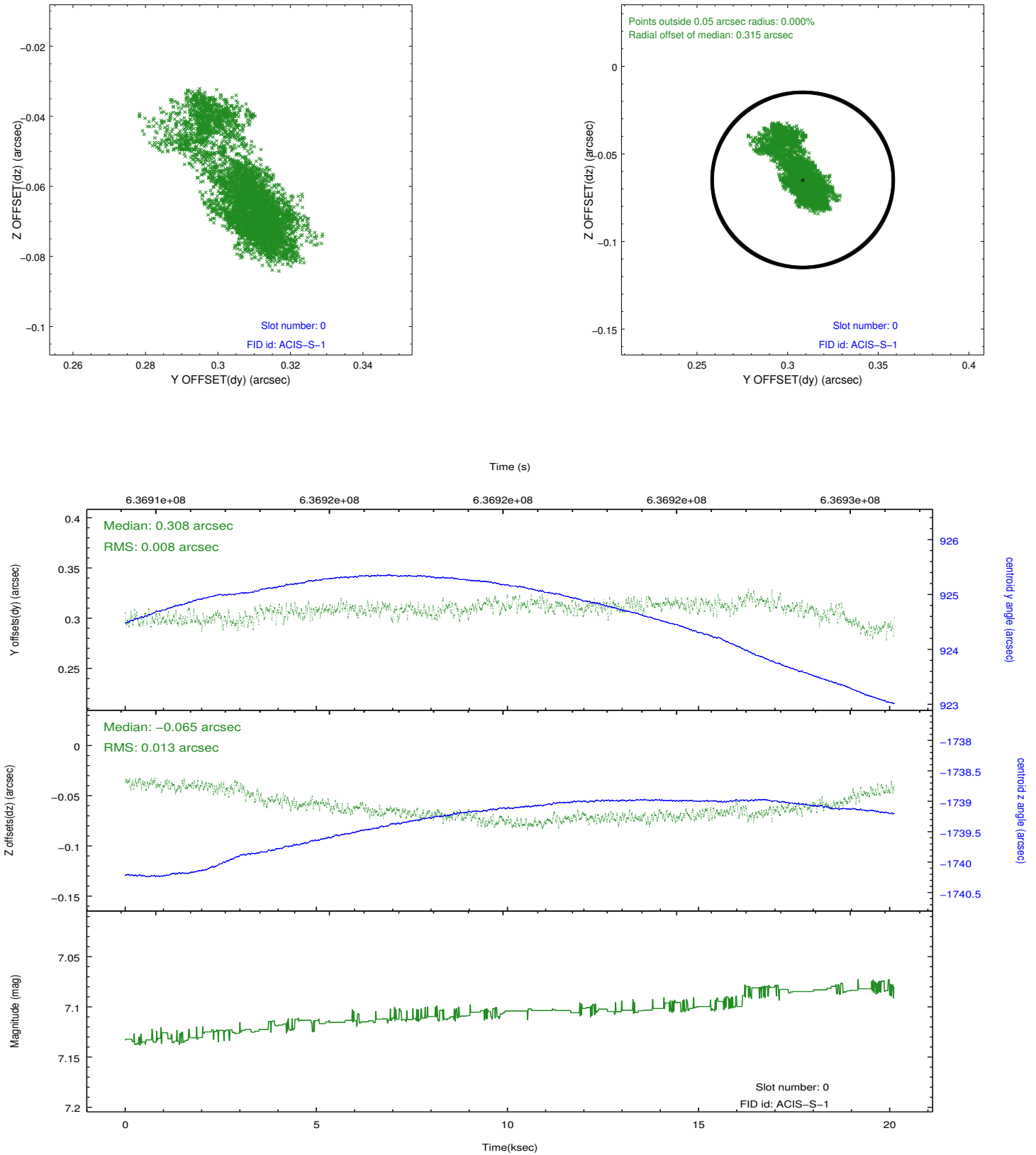


2.4.5 Slot 7

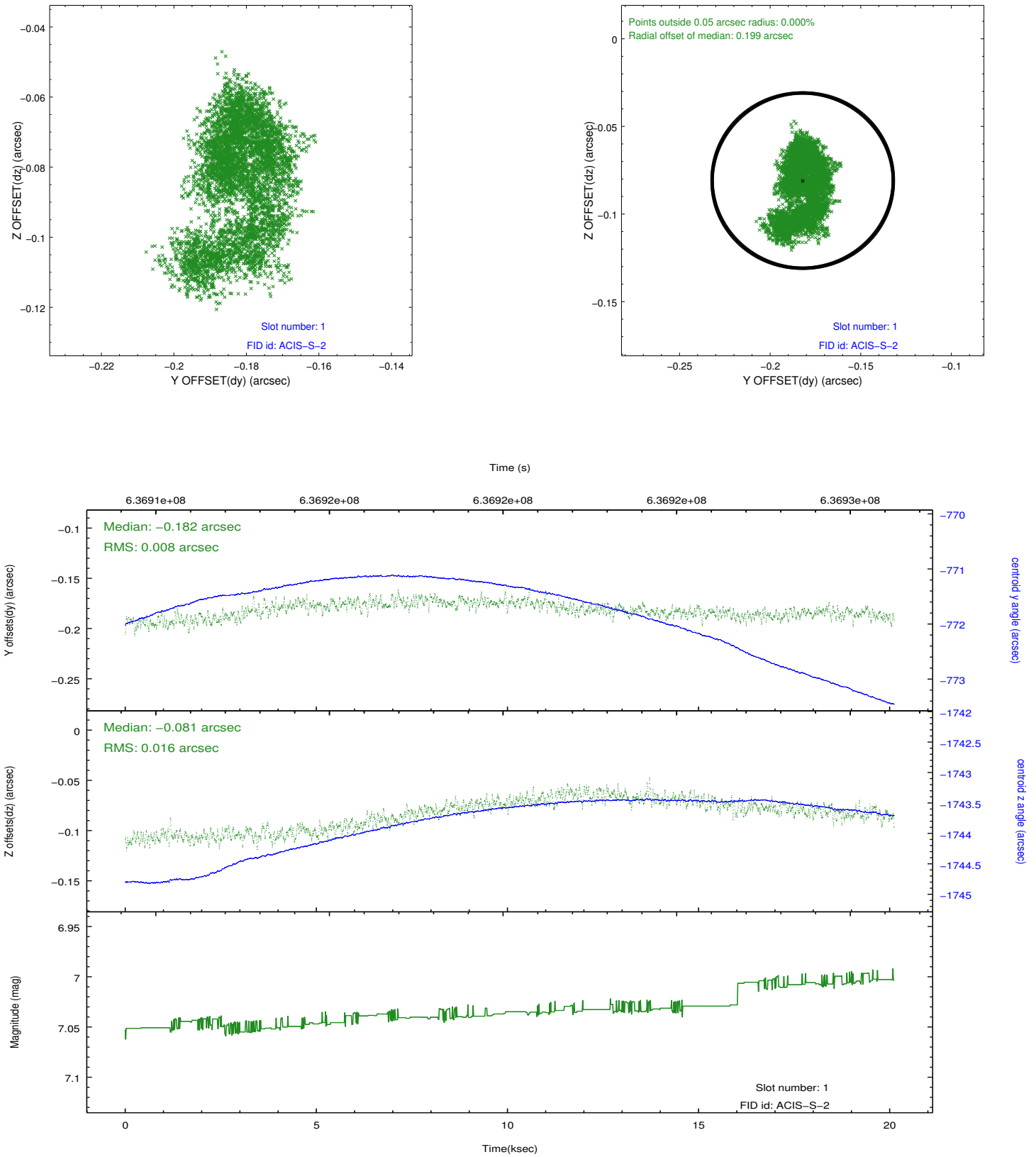


2.5 FID Slots

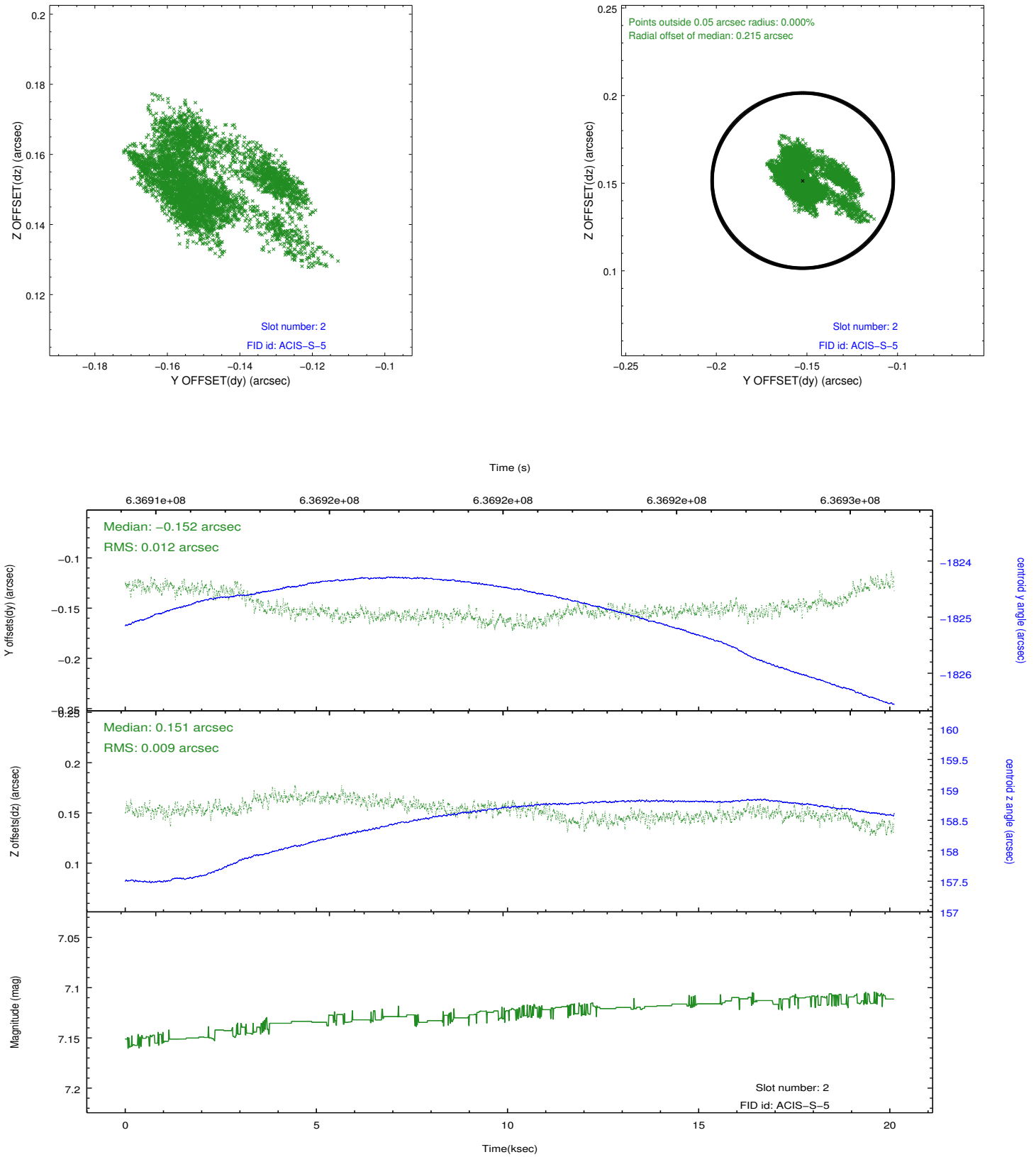
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2018.03.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.077

A.2 Comments