

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20879 - L2 Version 2
Chandra X-Ray Center

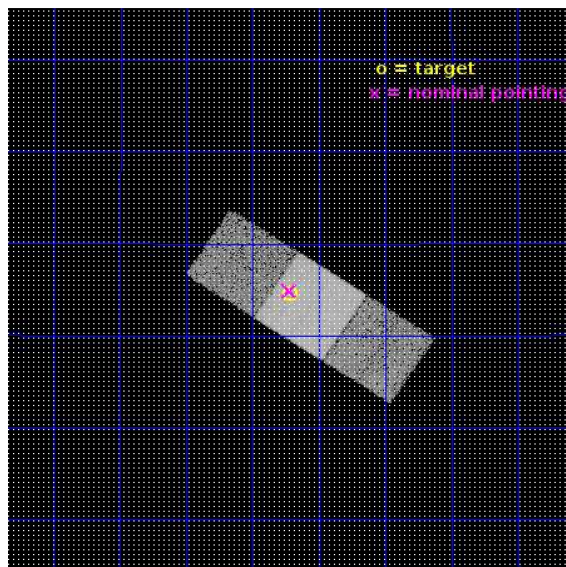
L2 Processing Date : Dec 8 2017

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1 Front

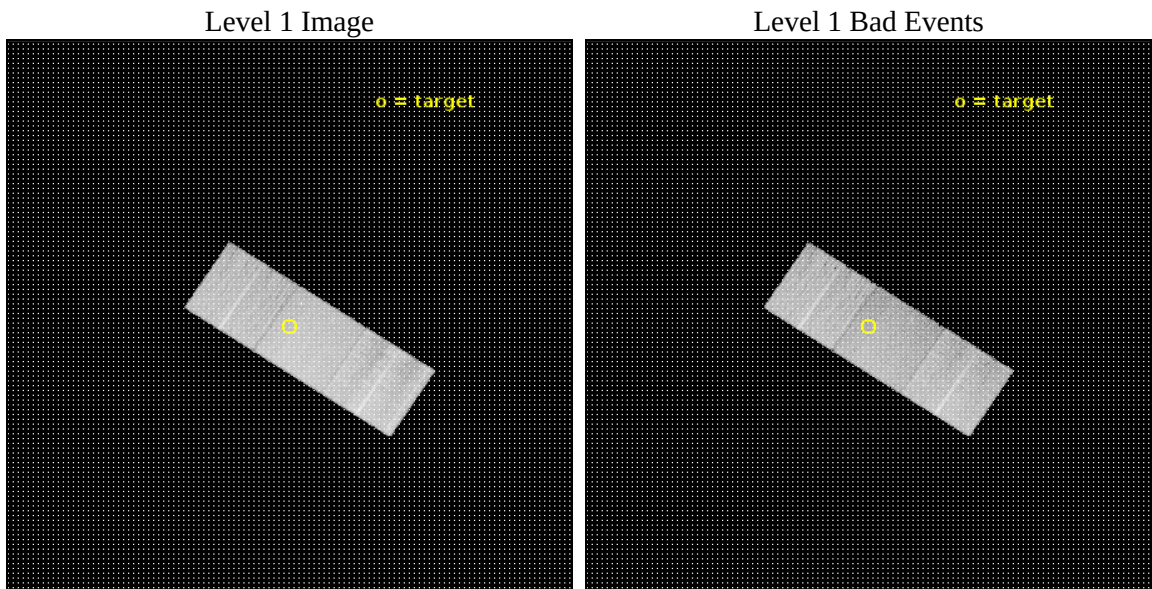
seq_num	703380	Sequence number
obs_id	20879	Observation id
title	Non-thermal X-ray emission from tidal disruption flares	Proposal t
observer	Nicholas Stone	Principal investigator
object	PTF09axc	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	223.304583	Observer's specified target RA [deg]
dec_targ	22.242278	Observer's specified target Dec [deg]
ra_nom	223.3056327741	Nominal RA [deg]
dec_nom	22.24823803376	Nominal Dec [deg]
roll_nom	33.156197233091	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15740.663028002	Sum of GTIs [s]
livetime	15534.999677433	Livetime [s]
ontime6	15737.481027722	Sum of GTIs [s]
ontime7	15740.663028002	Sum of GTIs [s]
ontime8	15740.580947995	Sum of GTIs [s]
l2events	85708	Number of level 2 events



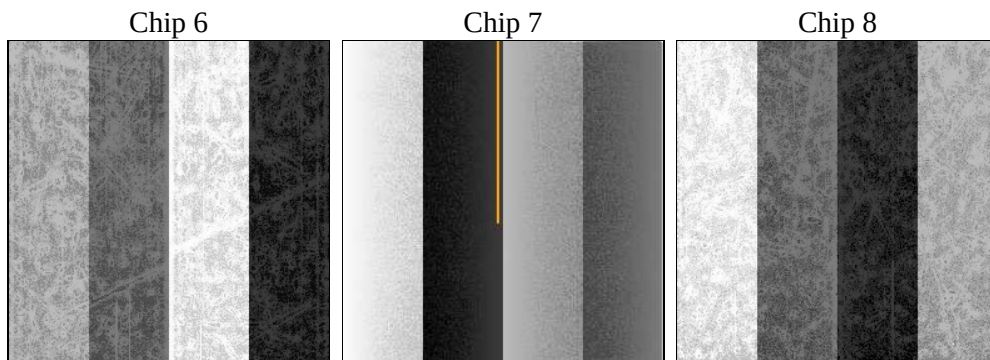
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15629.020000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	15740.663028002	Sum of GTIs [s]
caldsver	4.7.6	 	ontime6	15737.481027722	Sum of GTIs [s]
date	2017-12-08T15:58:31	Date and time of file creation	ontime7	15740.663028002	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	15740.580947995	Sum of GTIs [s]
			l1events	404688	Number of level 1 events

2.1.4 Events

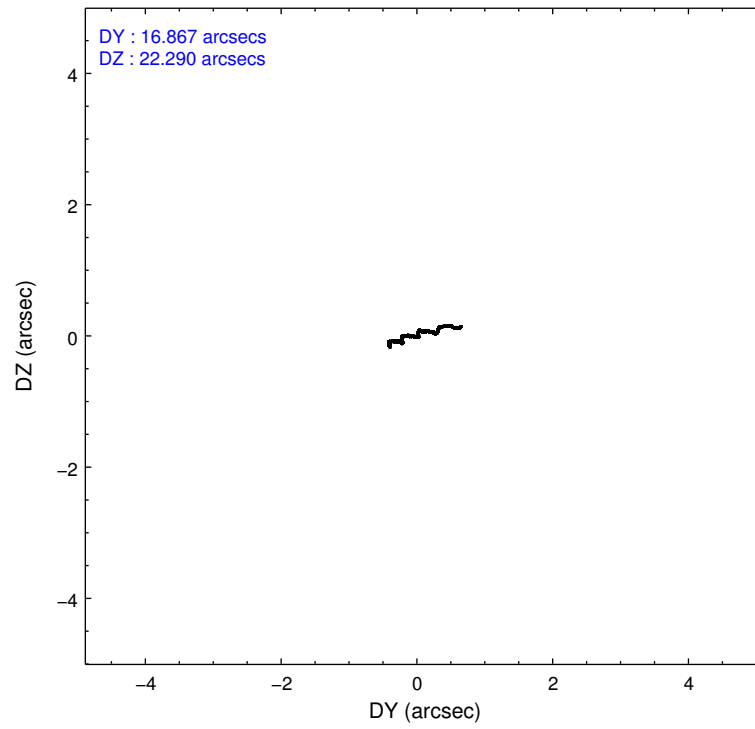
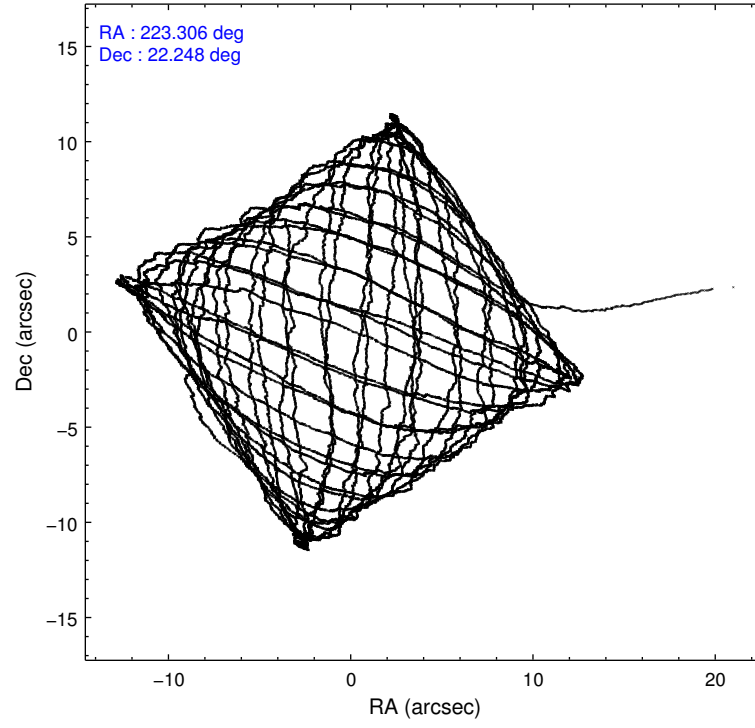
	ccd 6	ccd 7	ccd 8
level 1 events	113789	141359	149540
rejected events	100941	78481	107384
rejected %	88%	55%	71%

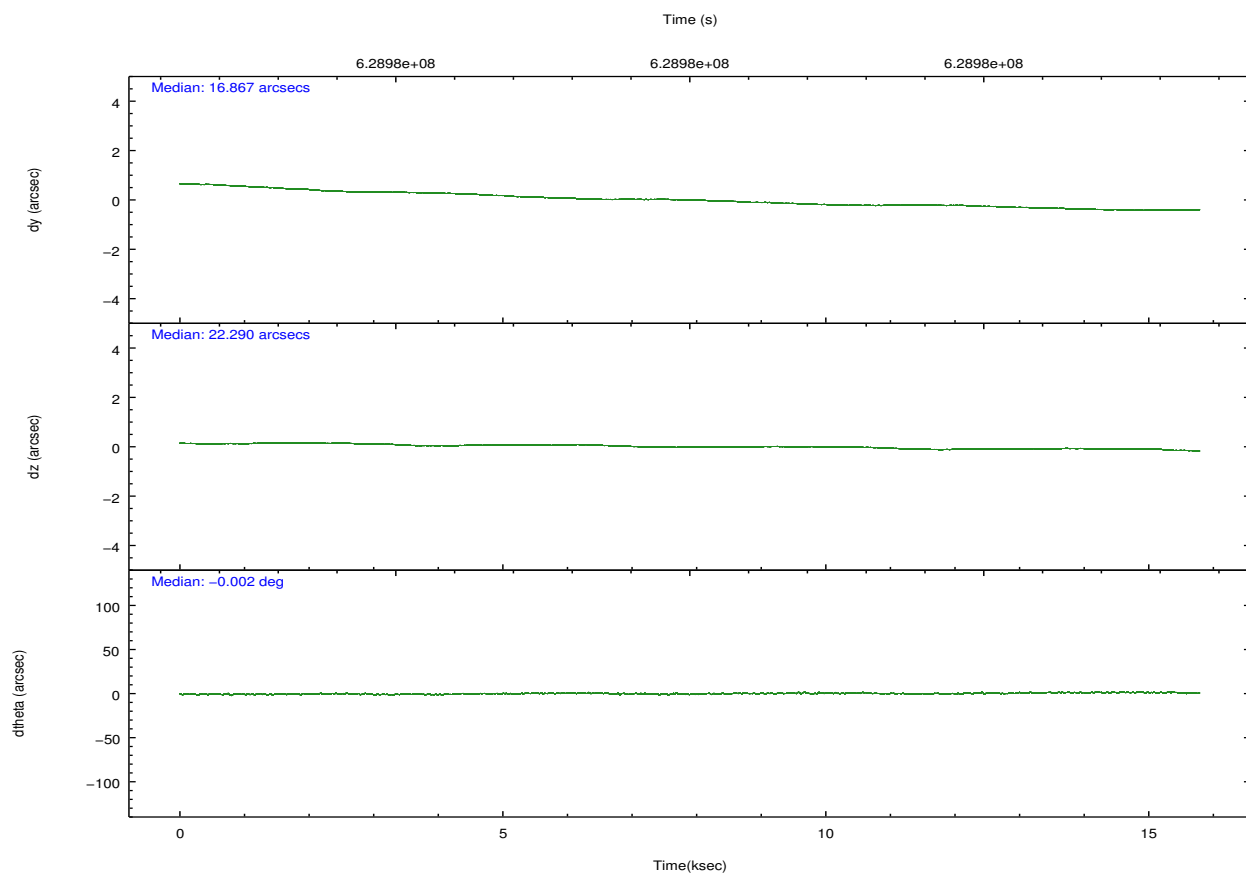
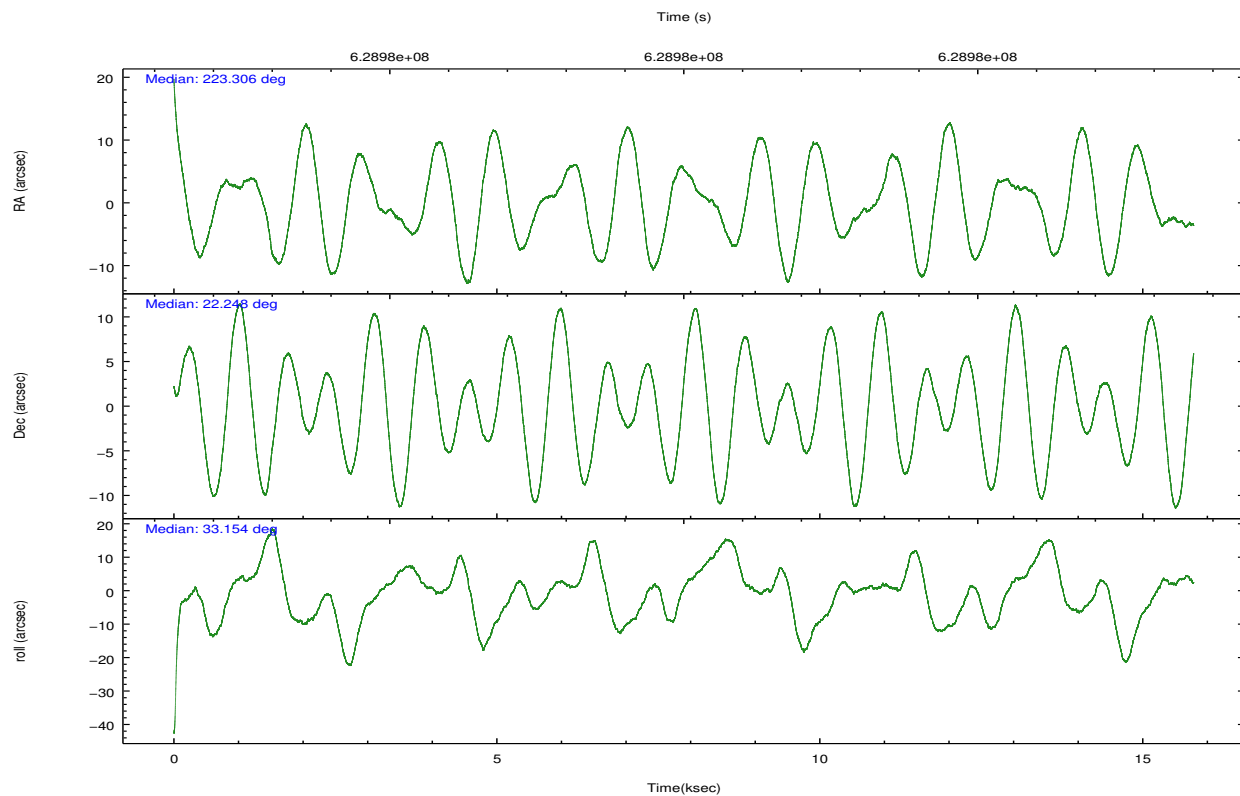
	ccd 6	ccd 7	ccd 8
grade 0 events	4395	5579	11996
	3%	3%	8%
grade 1 events	53	199	149
	0%	0%	0%
grade 2 events	3075	13502	10248
	2%	9%	6%
grade 3 events	1251	5011	4222
	1%	3%	2%
grade 4 events	1205	5103	4033
	1%	3%	2%
grade 5 events	5284	14305	7959
	4%	10%	5%
grade 6 events	2926	33713	11667
	2%	23%	7%
grade 7 events	95600	63947	99266
	84%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	223.292607	223.3056327740996	CCD I2 on	N	N
[deg] Pointing Dec	22.223600	22.24823803376006	CCD I3 on	N	N
[deg] Pointing Roll	33.004527	33.15619723309072	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	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	O1	Y
[s] Observation start time (MET)	628972252.184000	628971207.13638	CCD S5 on	N	N
Observation start date	2017-12-06T18:29:43	2017-12-06T18:13:27	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	628987881.184000	628988947.83742	On-chip summing requested	N	N
Observation end date	2017-12-06T22:50:12	2017-12-06T23:09:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



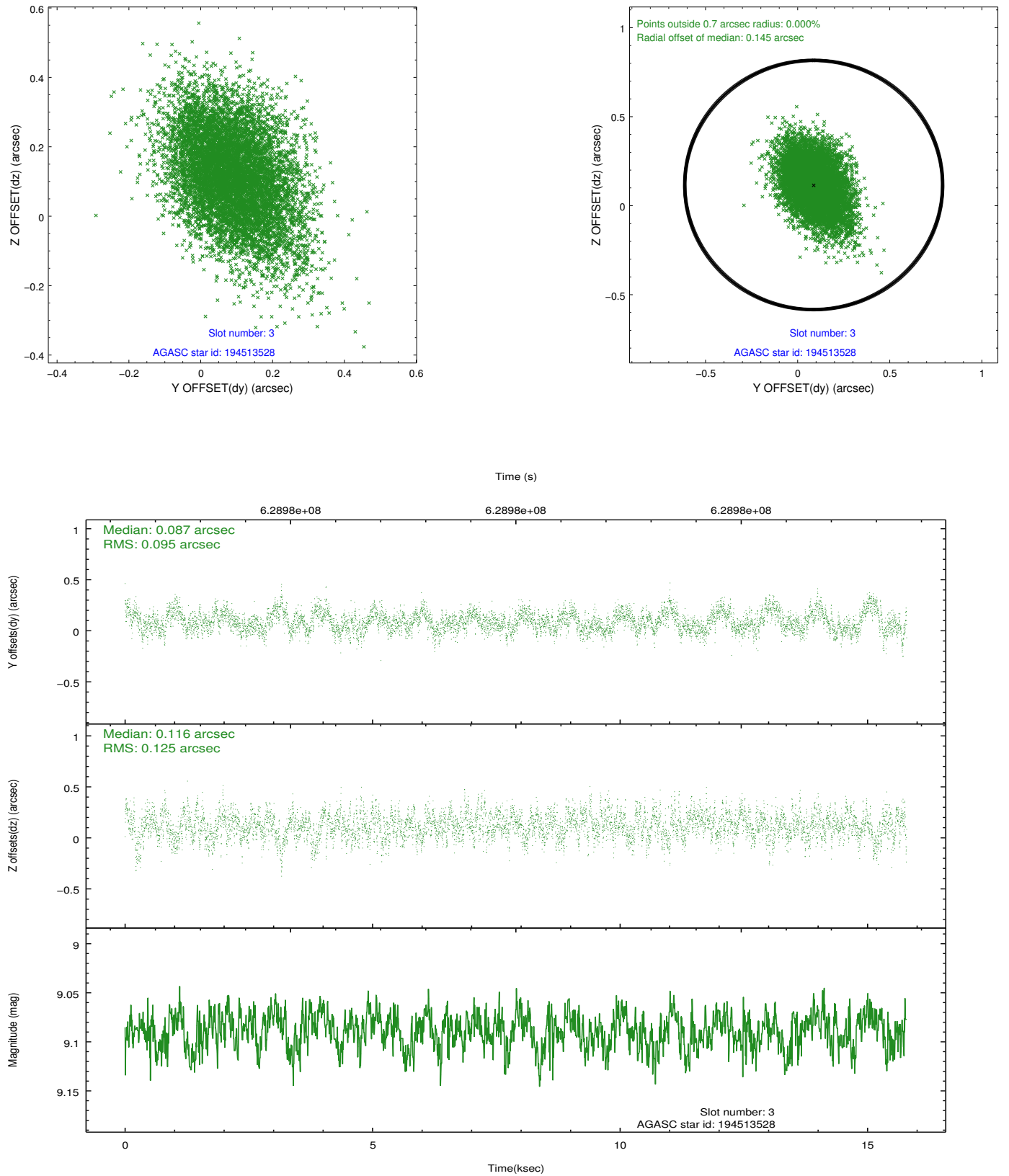


Slot Statistics

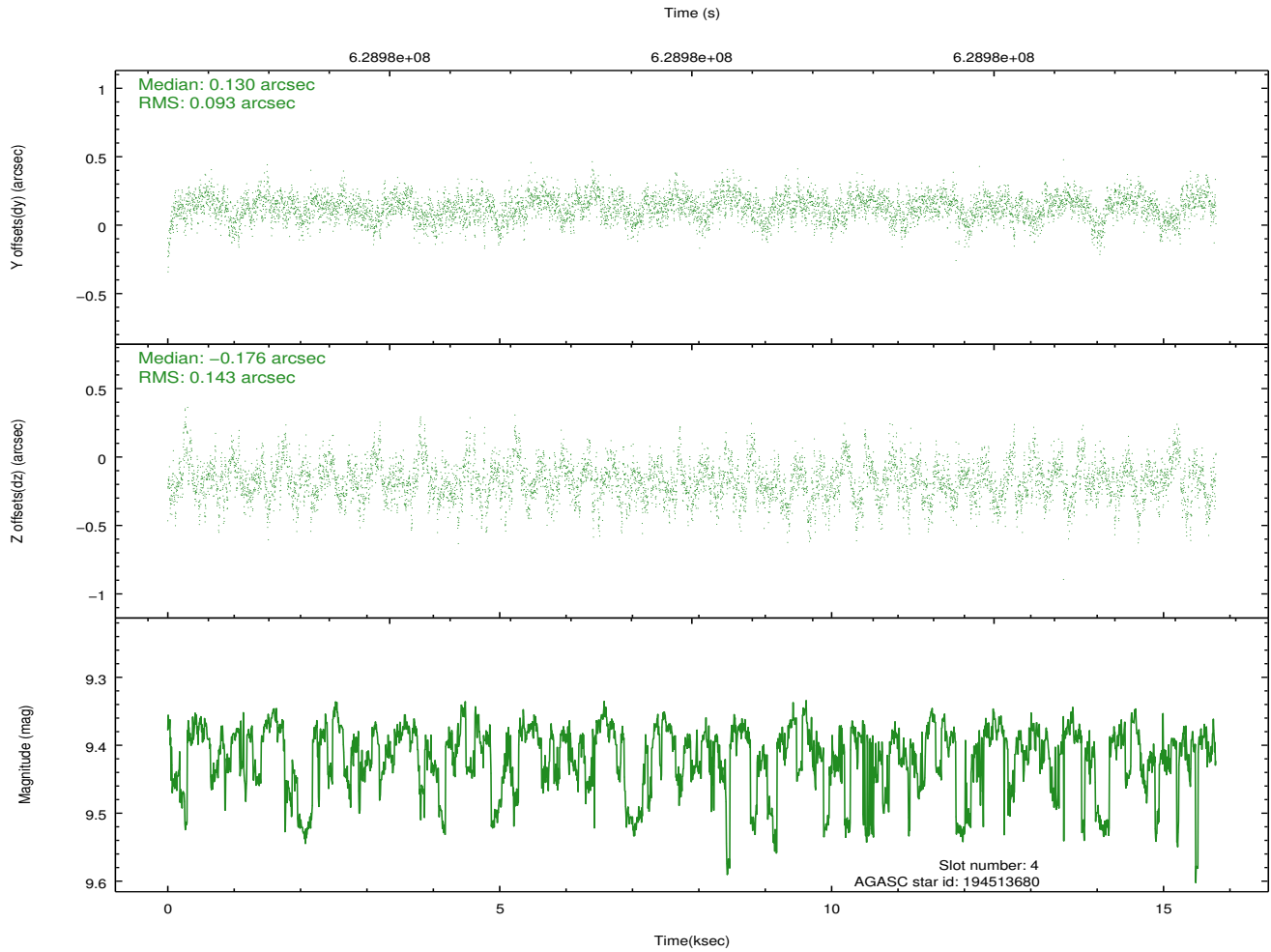
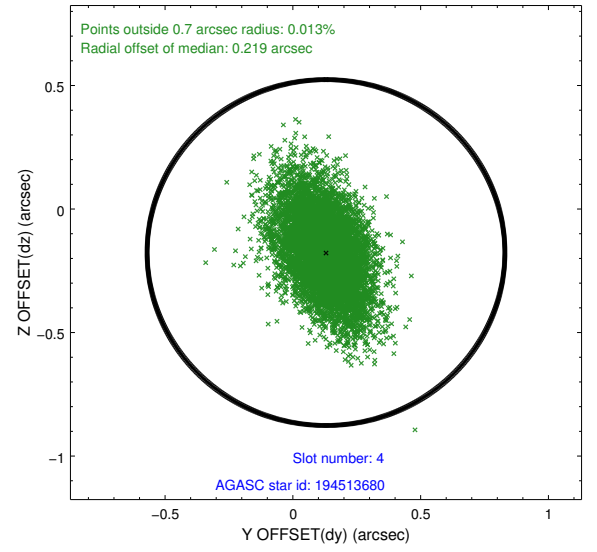
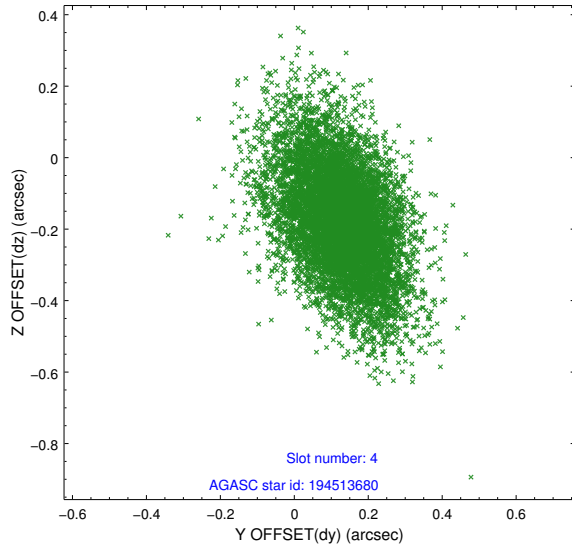
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	3851	-0.252	-0.161	0.009	0.018	0.000000	0.000000	-770.21	-1743.96
1	FID		ACIS-S-4	7.11	3851	0.288	0.143	0.009	0.016	0.000000	0.000000	2143.54	164.45
2	FID		ACIS-S-6	7.25	3851	-0.063	0.024	0.008	0.014	0.000000	0.000000	392.40	802.09
3	GUIDE	used	194513528	9.09	7695	0.087	0.116	0.164	0.277	223.452445	21.896019	-193.77	-1279.24
4	GUIDE	used	194513680	9.41	7694	0.130	-0.176	0.174	0.313	222.794093	22.299945	-1240.69	1137.07
5	GUIDE	used	194514736	9.12	7697	-0.218	0.059	0.148	0.263	223.996360	22.211386	1946.27	-1309.15
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
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

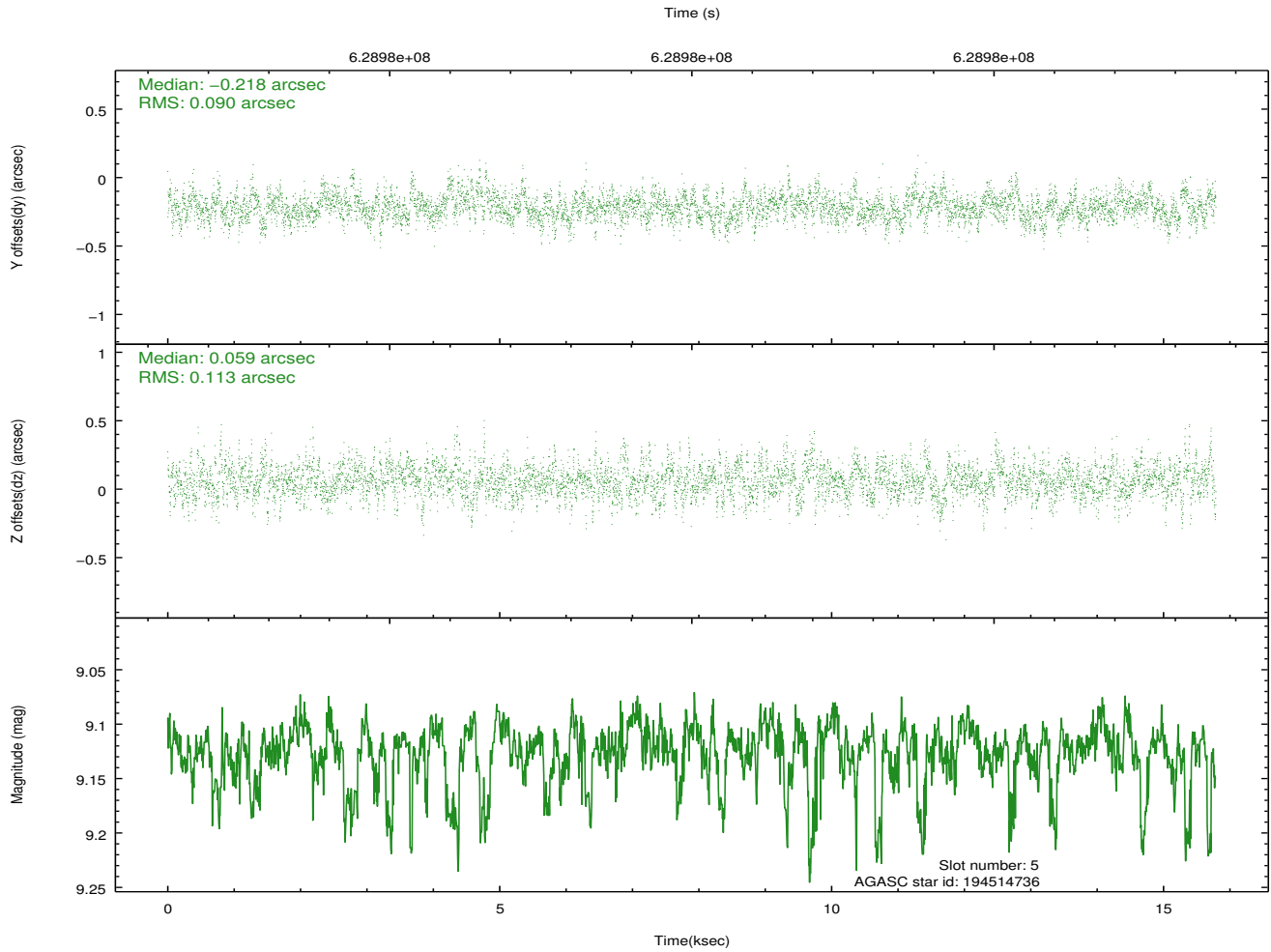
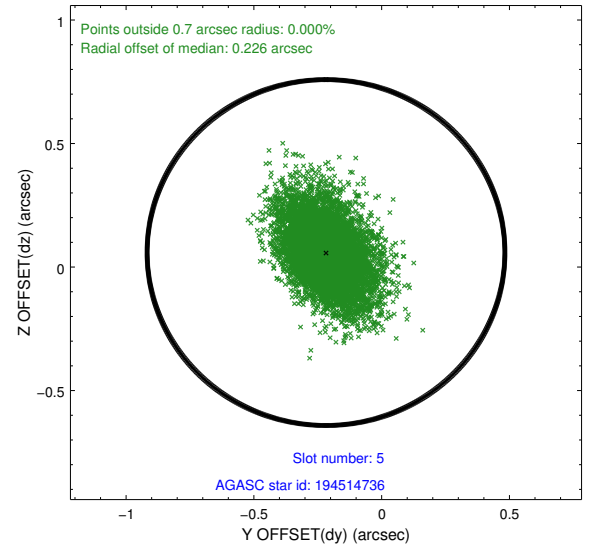
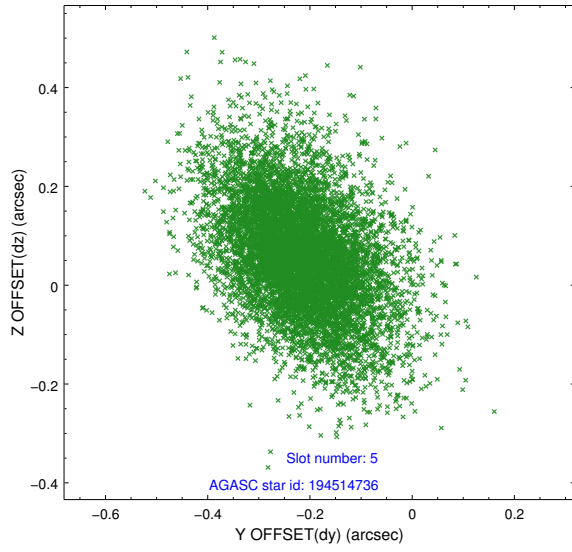
2.4.1 Slot 3



2.4.2 Slot 4

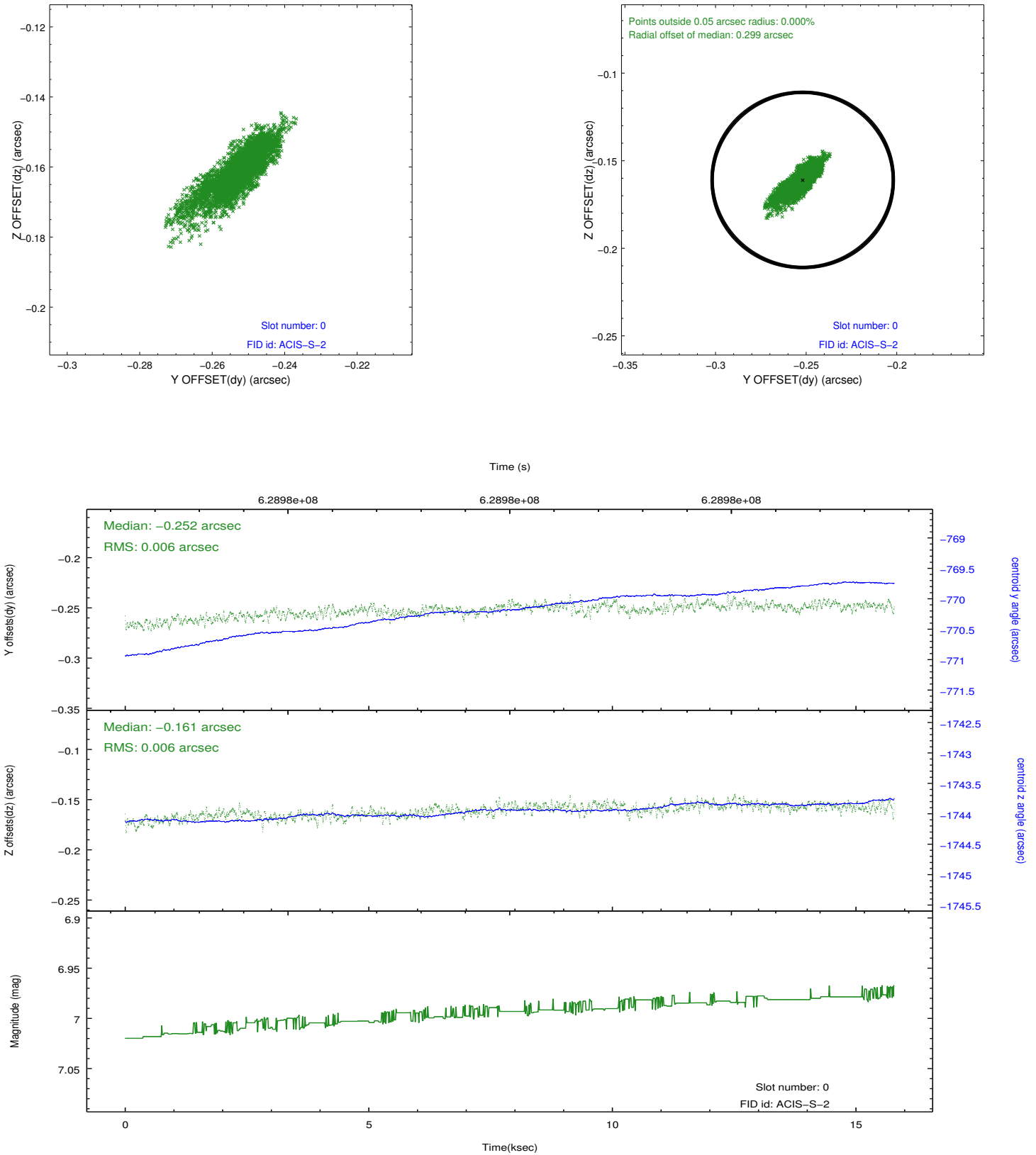


2.4.3 Slot 5

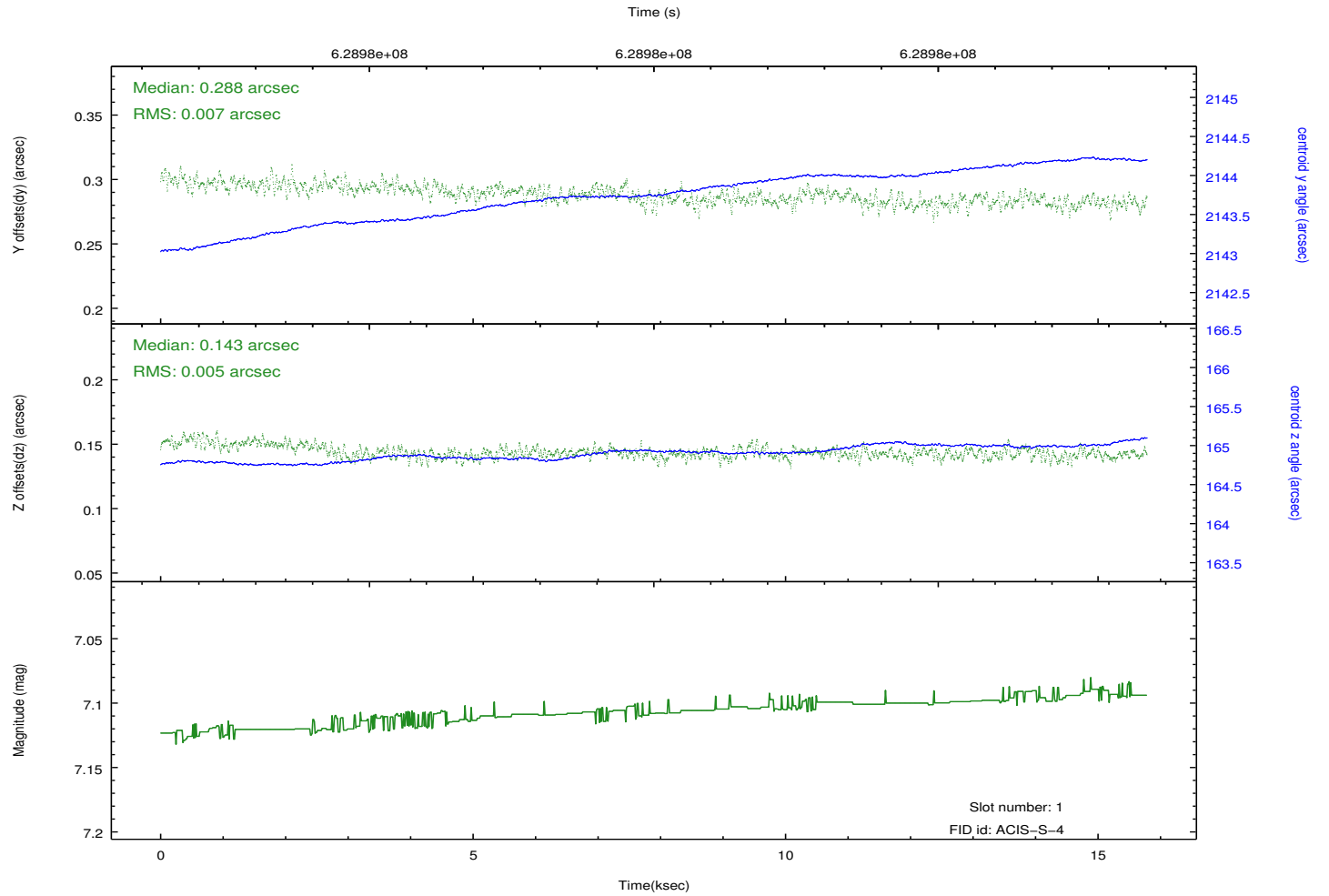
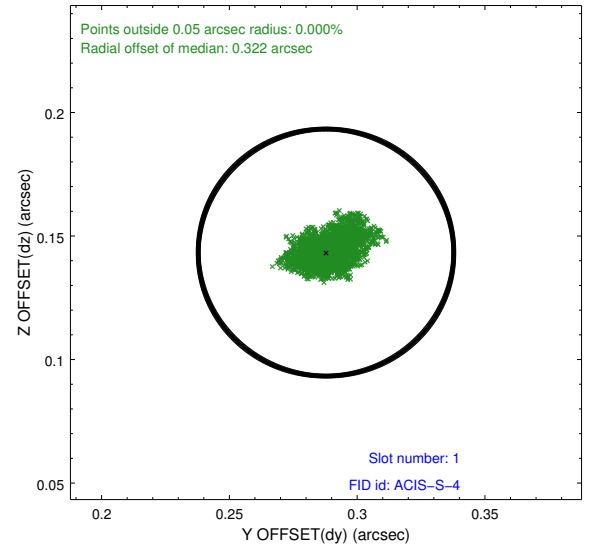
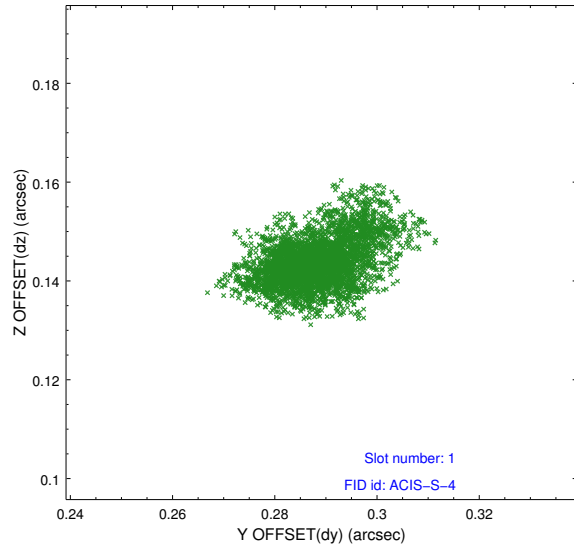


2.5 FID Slots

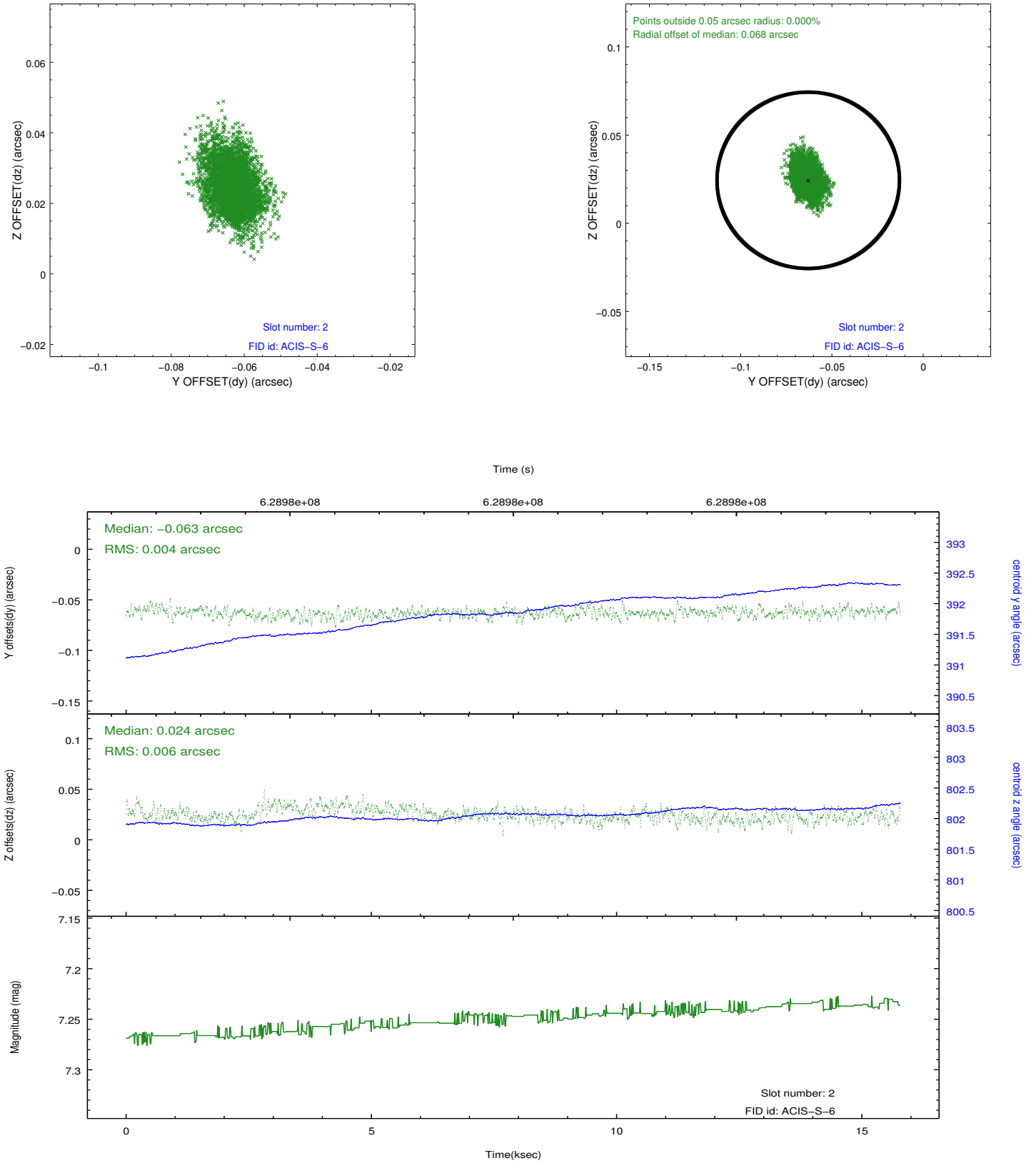
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.12.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.740663028002

A.2 Comments

The guide stars in slots 6 and 7 were removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of these guide stars from the solution.