

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20627 - L2 Version 1
Chandra X-Ray Center

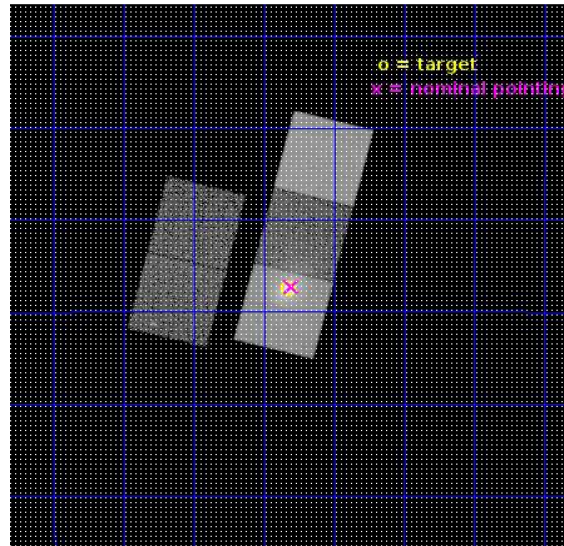
L2 Processing Date : Aug 18 2017

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1 Front

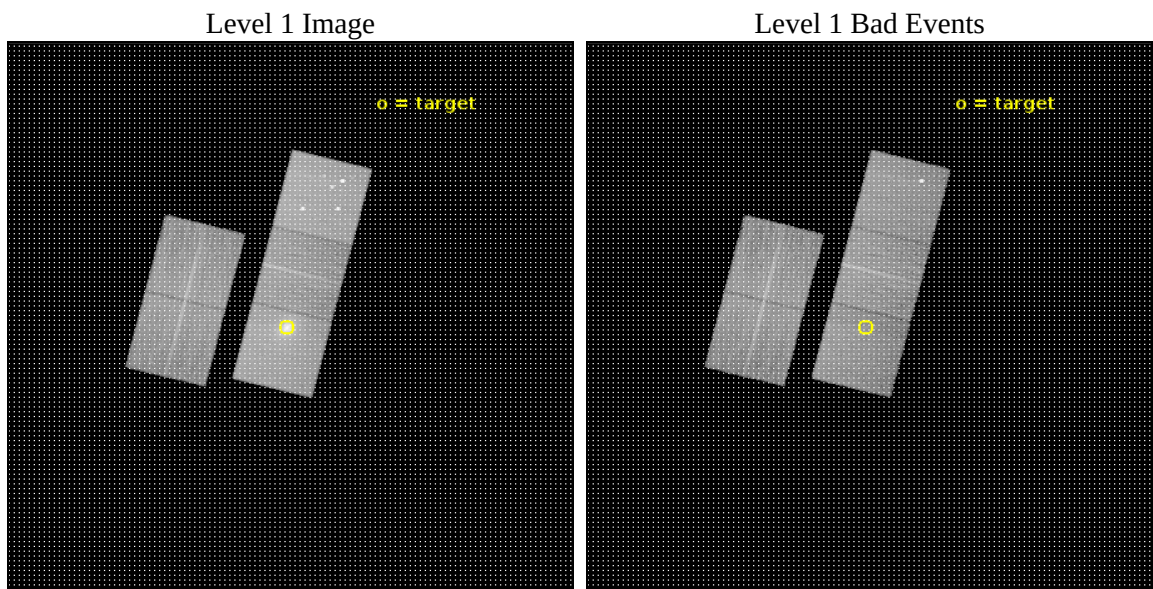
seq_num	801685	Sequence number
obs_id	20627	Observation id
title	The Hot Phase of a Cold Black Hole Fountain: Unifying Chandra with ALMA	Proposal title
observer	Grant Tremblay	Principal investigator
object	Abell 2597	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	351.332208	Observer's specified target RA [deg]
dec_targ	-12.124214	Observer's specified target Dec [deg]
ra_nom	351.3264817093	Nominal RA [deg]
dec_nom	-12.121019824095	Nominal Dec [deg]
roll_nom	104.15544765357	Nominal Roll [deg]
revision	1	Processing version of data
ontime	21129.600162625	Sum of GTIs [s]
livetime	20853.526381115	Livetime [s]
ontime2	21129.600162625	Sum of GTIs [s]
ontime3	21126.459152222	Sum of GTIs [s]
ontime5	21129.600162625	Sum of GTIs [s]
ontime6	21126.459162354	Sum of GTIs [s]
ontime7	21129.600162625	Sum of GTIs [s]
l2events	285663	Number of level 2 events



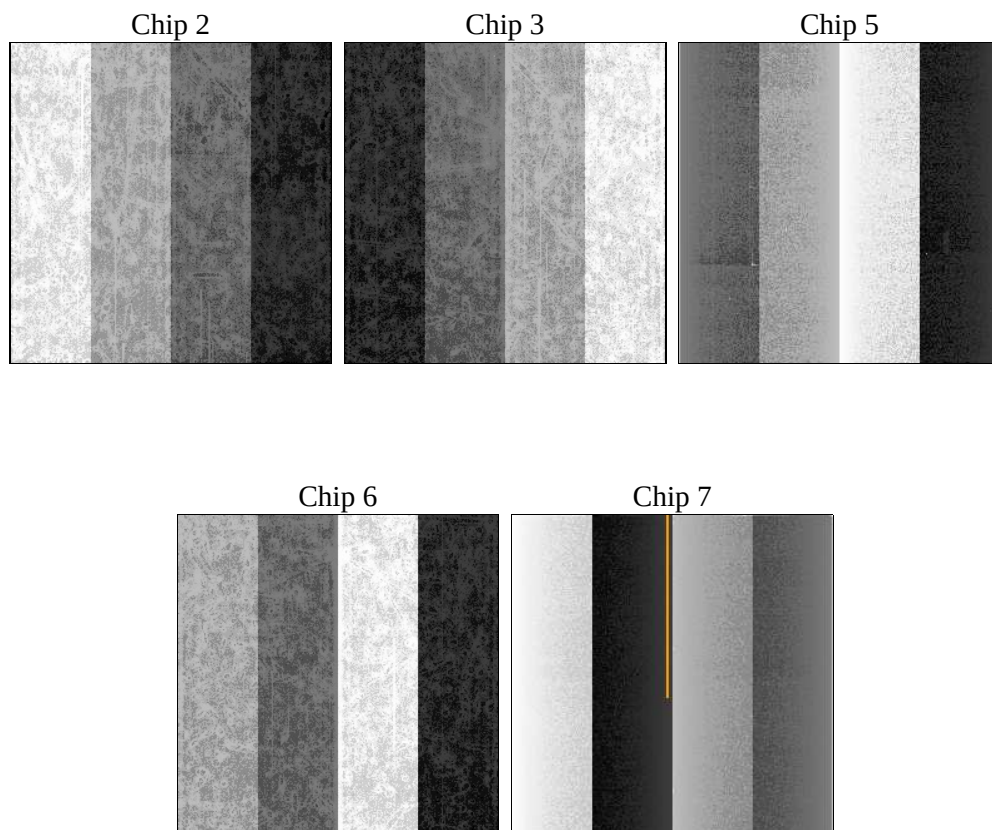
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21071.716000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	21129.600162625	Sum of GTIs [s]
caldbver	4.7.5	 	ontime2	21129.600162625	Sum of GTIs [s]
date	2017-08-18T04:00:37	Date and time of file creation	ontime3	21126.459152222	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	21129.600162625	Sum of GTIs [s]
			ontime6	21126.459162354	Sum of GTIs [s]
			ontime7	21129.600162625	Sum of GTIs [s]
			l1events	928673	Number of level 1 events

2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	142697	136225	251098	153743	244910
rejected events	127140	120751	126241	133644	107662
rejected %	89%	88%	50%	86%	43%

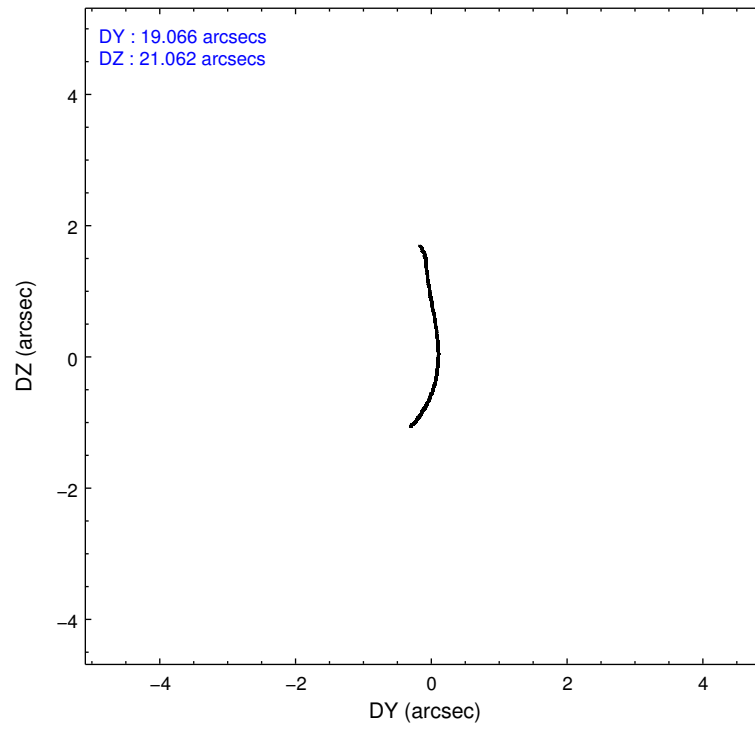
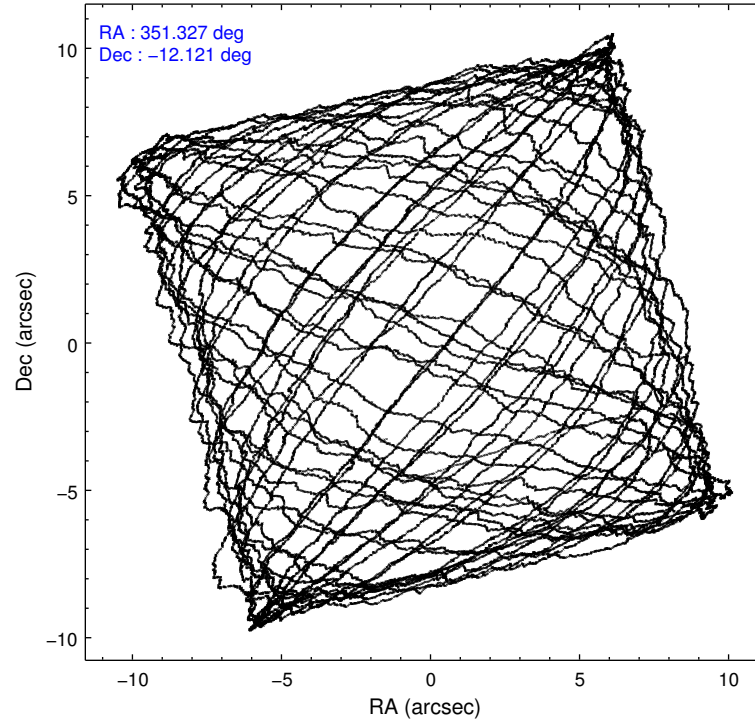
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	5480	5533	19957	8268	21884
	3%	4%	7%	5%	8%
grade 1 events	75	75	503	84	305
	0%	0%	0%	0%	0%
grade 2 events	3898	3425	36679	4290	32144
	2%	2%	14%	2%	13%
grade 3 events	1504	1700	3613	1779	13166
	1%	1%	1%	1%	5%
grade 4 events	1566	1637	3351	1736	12689
	1%	1%	1%	1%	5%
grade 5 events	5653	6889	17026	6968	19616
	3%	5%	6%	4%	8%
grade 6 events	3111	3181	61310	4030	57415
	2%	2%	24%	2%	23%
grade 7 events	121410	113785	108659	126588	87691
	85%	83%	43%	82%	35%

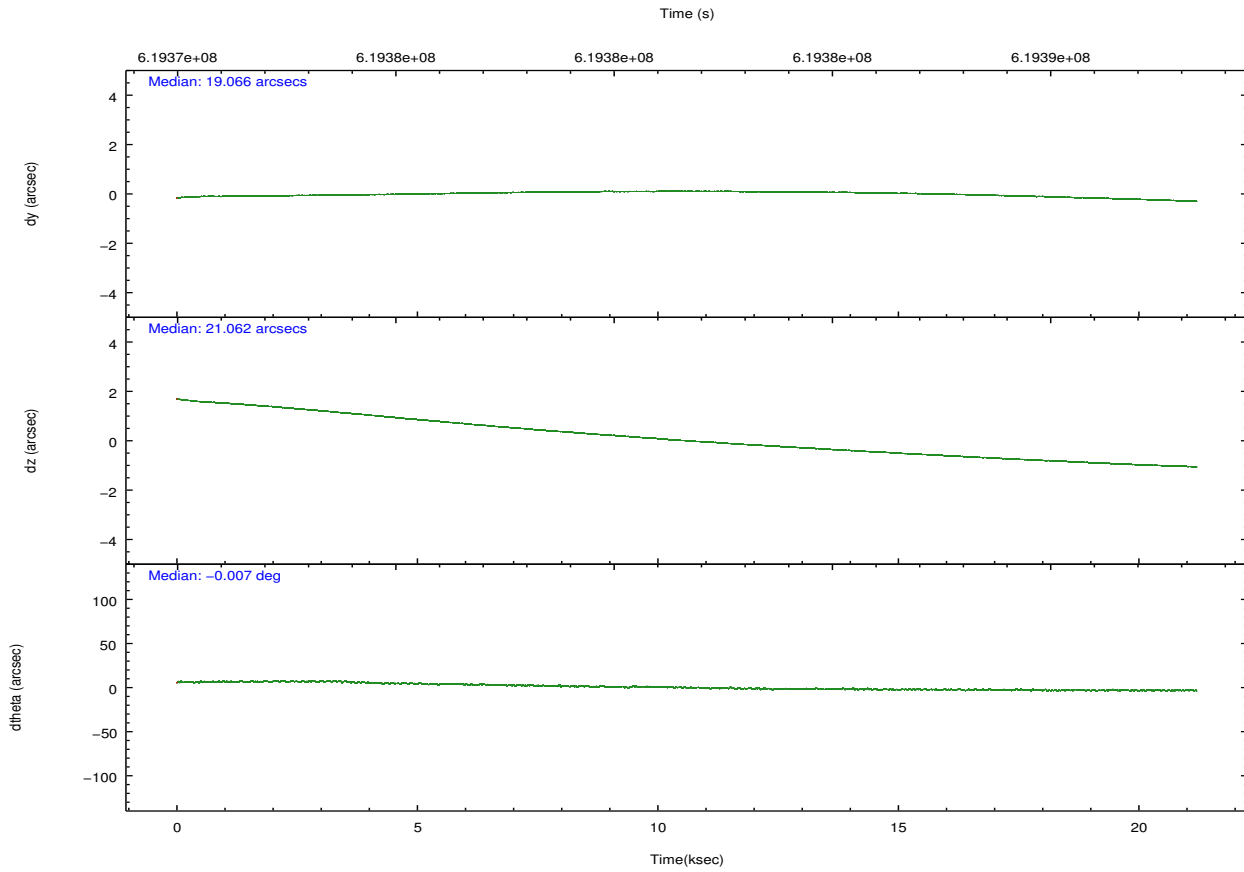
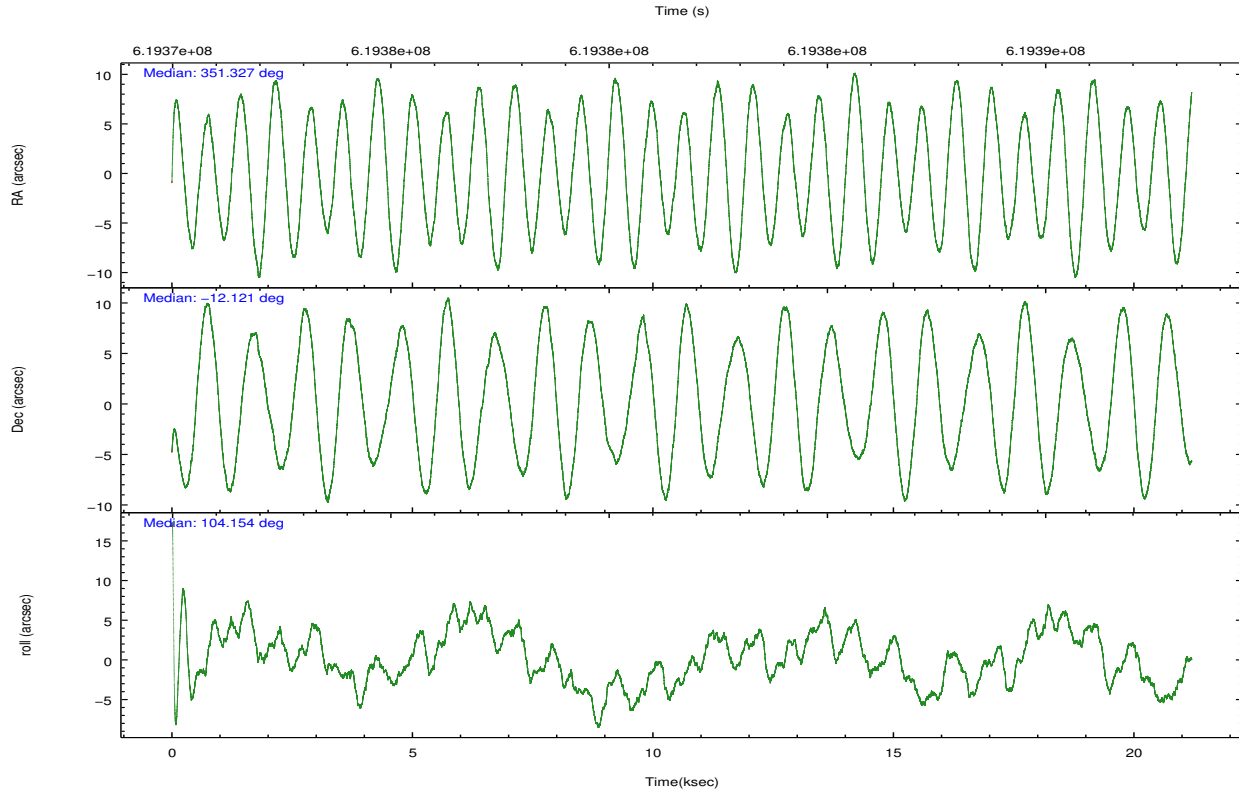
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-23567	ACIS-23567
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	351.346308	351.3264817093018
[deg] Pointing Dec	-12.140434	-12.12101982409487
[deg] Pointing Roll	104.002964	104.1554476535702
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	619371182.184000	619369841.94894
Observation start date	2017-08-17T15:31:53	2017-08-17T15:10:41
[s] Observation end time (MET)	619392253.184000	619392475.4877599
Observation end date	2017-08-17T21:23:04	2017-08-17T21:27:55
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



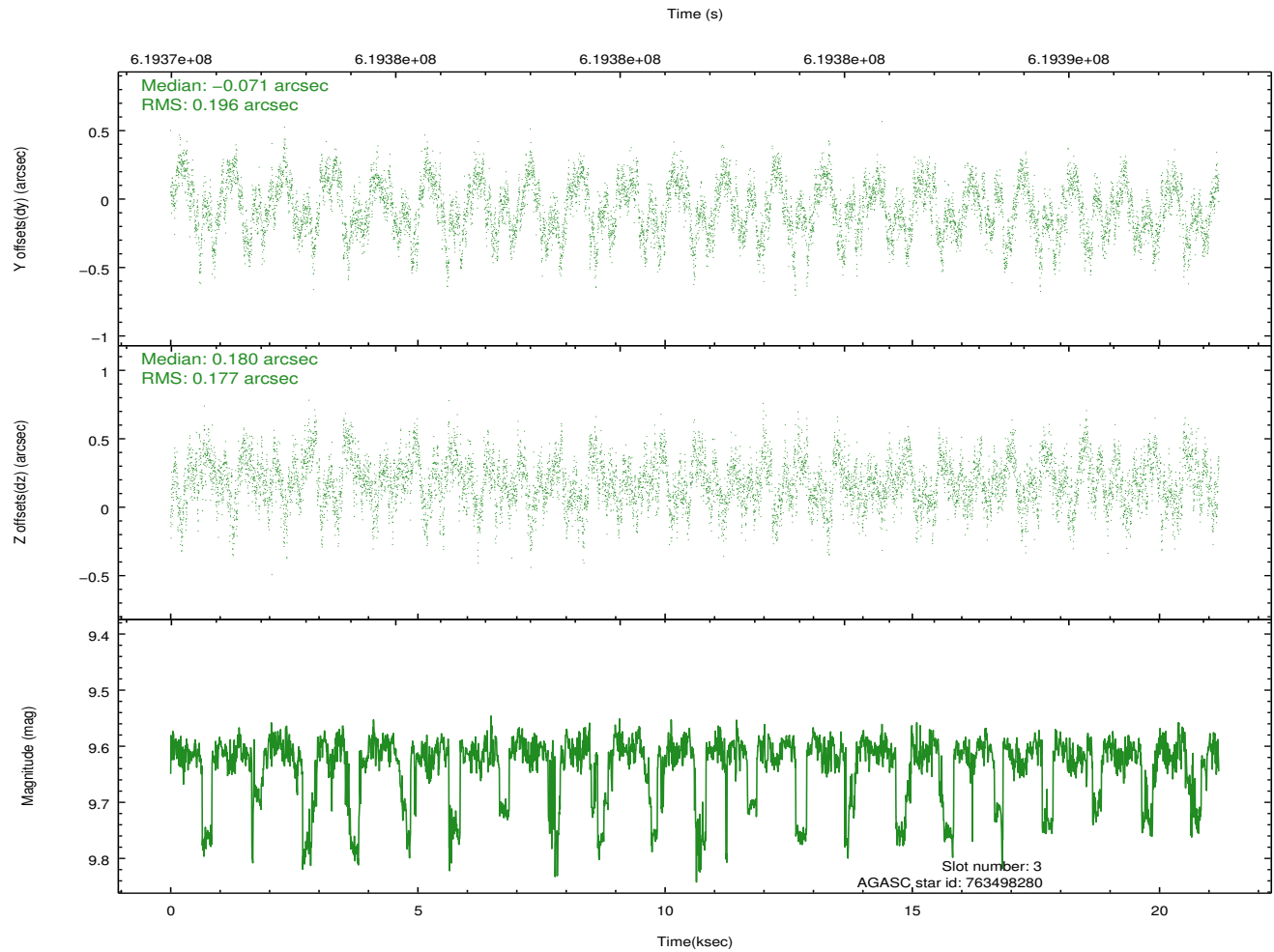
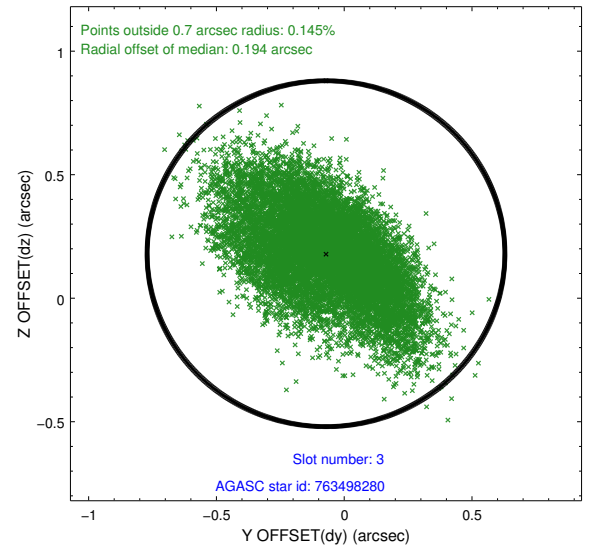
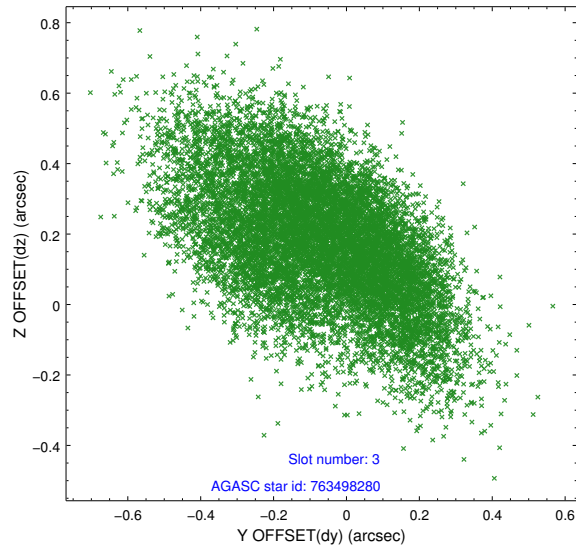


Slot Statistics

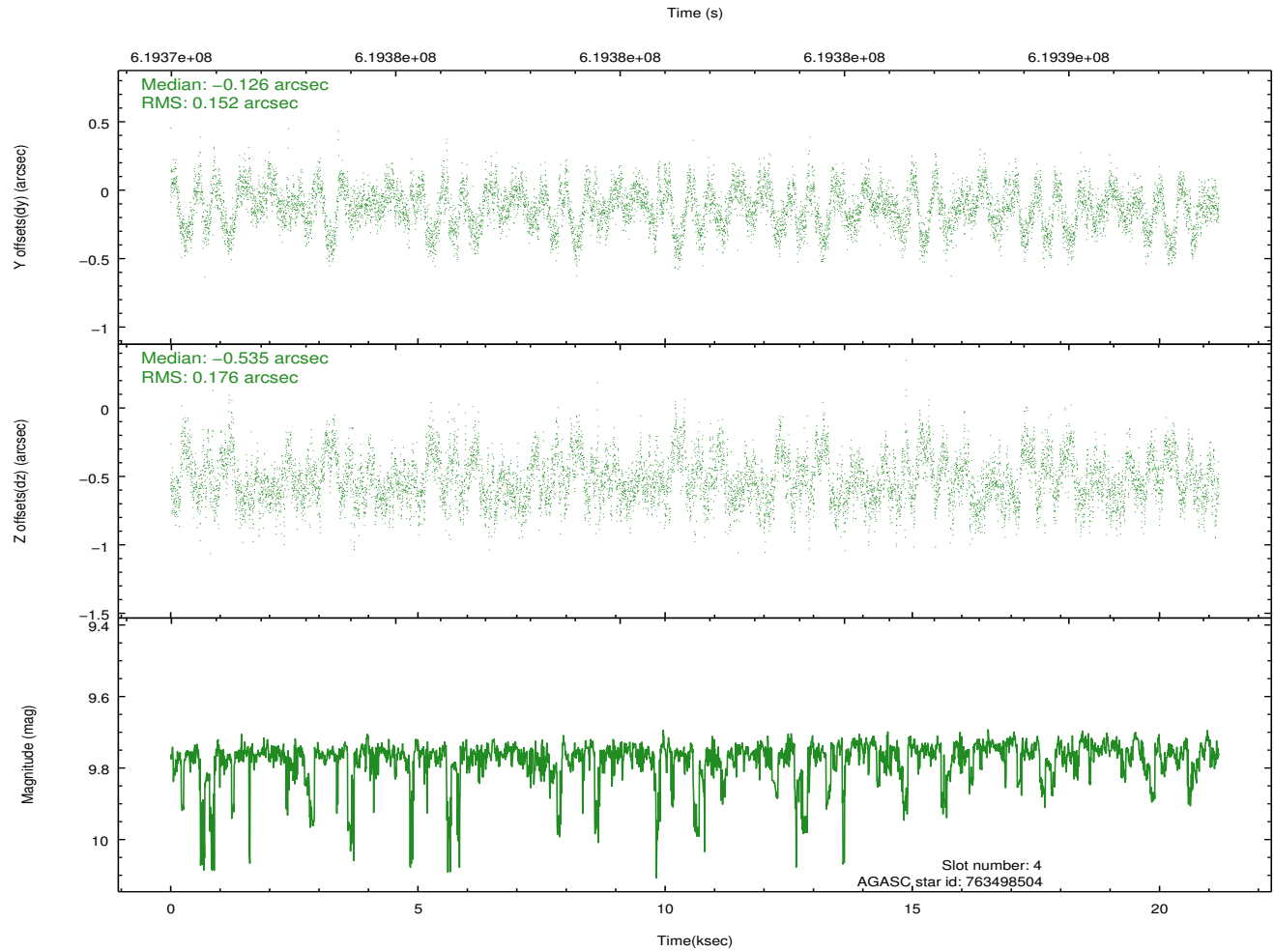
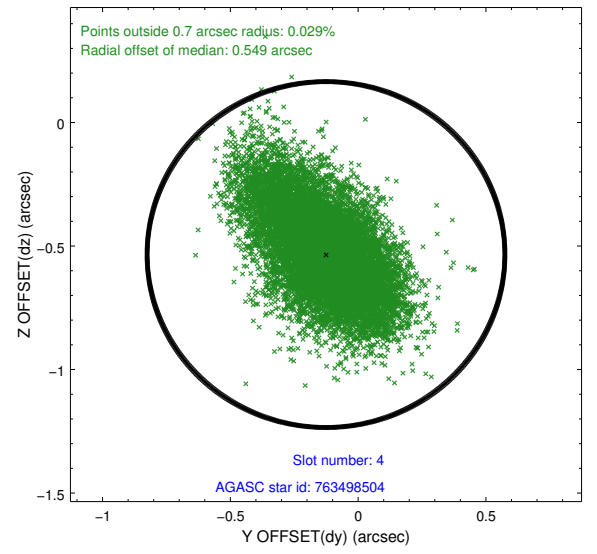
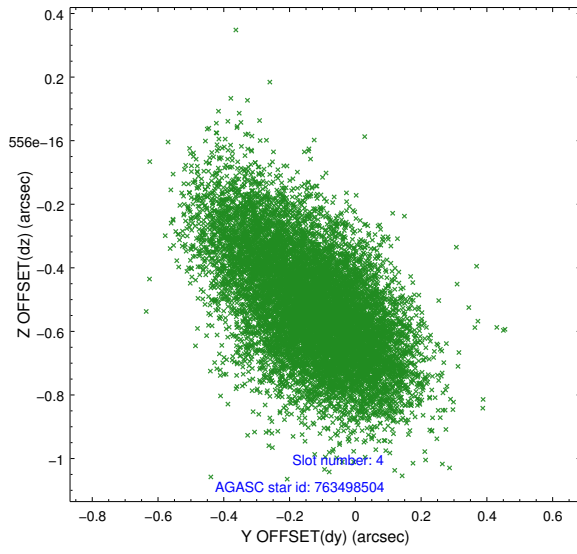
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.09	5170	0.373	0.018	0.010	0.018	0.000000	0.000000	2141.59	166.08
1	FID		ACIS-S-5	7.08	5172	-0.453	-0.002	0.014	0.022	0.000000	0.000000	-1825.22	159.40
2	FID		ACIS-S-6	7.23	5172	0.051	-0.002	0.011	0.016	0.000000	0.000000	389.32	803.23
3	GUIDE	used	763498280	9.62	10320	-0.071	0.180	0.279	0.464	351.715548	-11.532836	1806.91	-1792.22
4	GUIDE	used	763498504	9.76	10281	-0.126	-0.535	0.245	0.412	351.252498	-11.852907	1084.40	69.74
5	GUIDE	used	763499608	9.49	10312	0.164	0.299	0.266	0.403	351.830271	-12.196099	-607.14	-1602.78
6	GUIDE	used	763500112	6.20	10342	-0.014	0.390	0.144	0.240	352.030274	-12.212329	-835.89	-2271.08
7	GUIDE	used	763888952	8.96	10329	0.054	-0.357	0.142	0.242	351.077405	-12.782990	-2016.03	1475.05

2.4 Star Slots

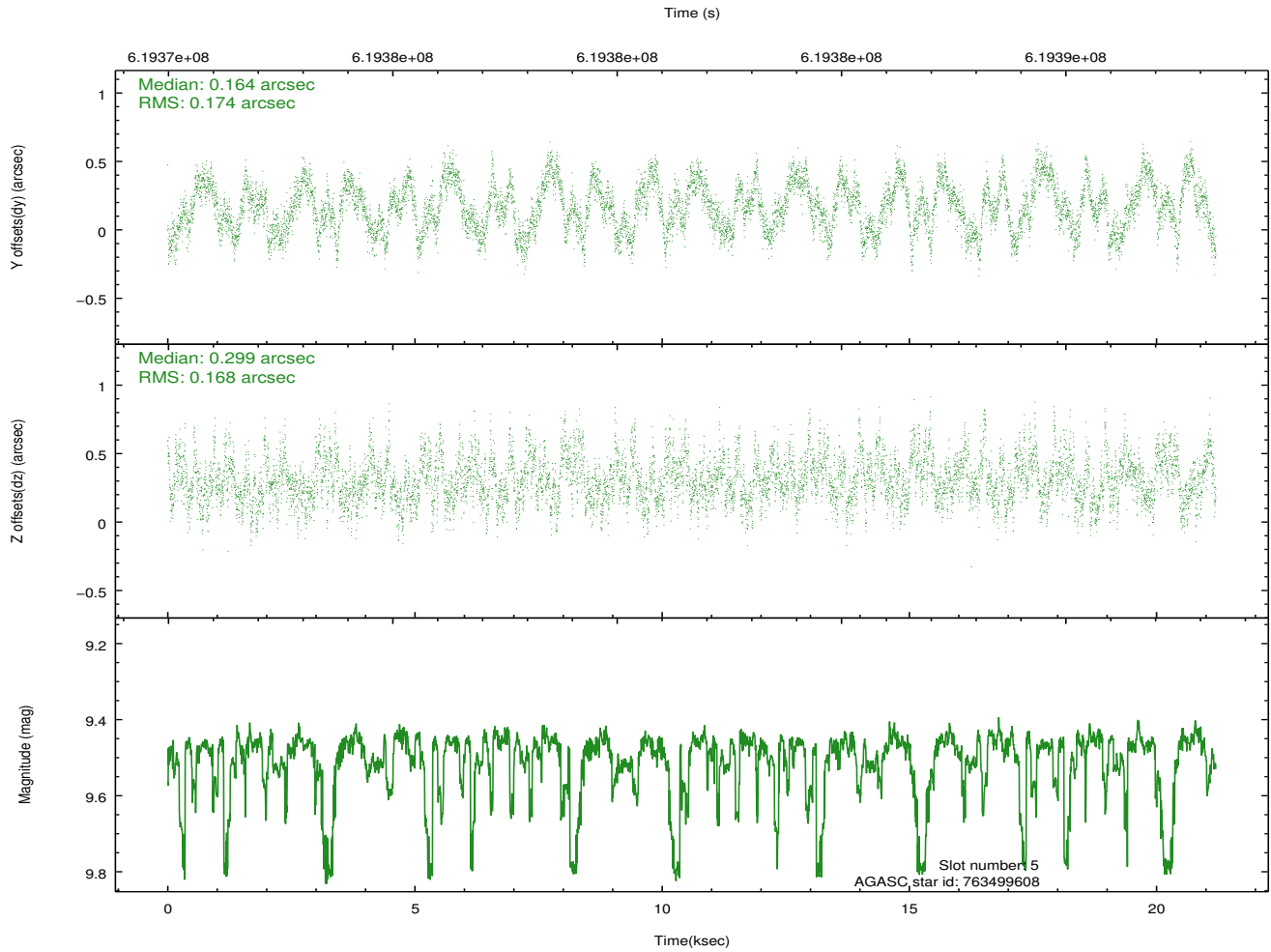
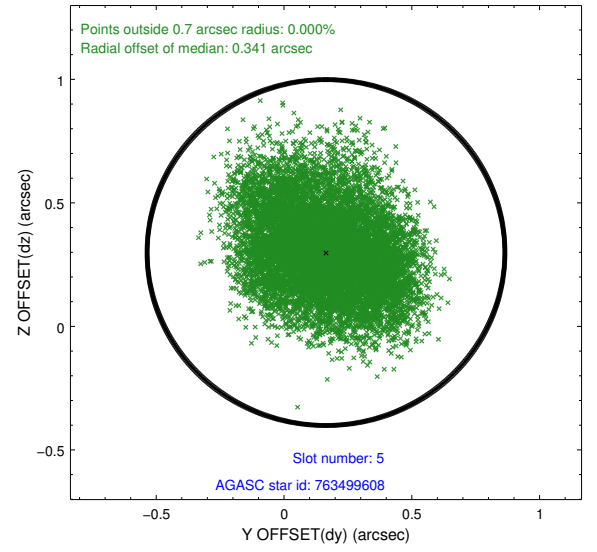
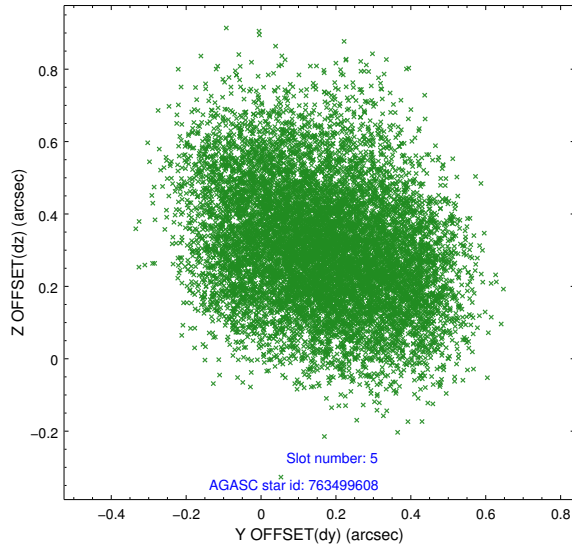
2.4.1 Slot 3



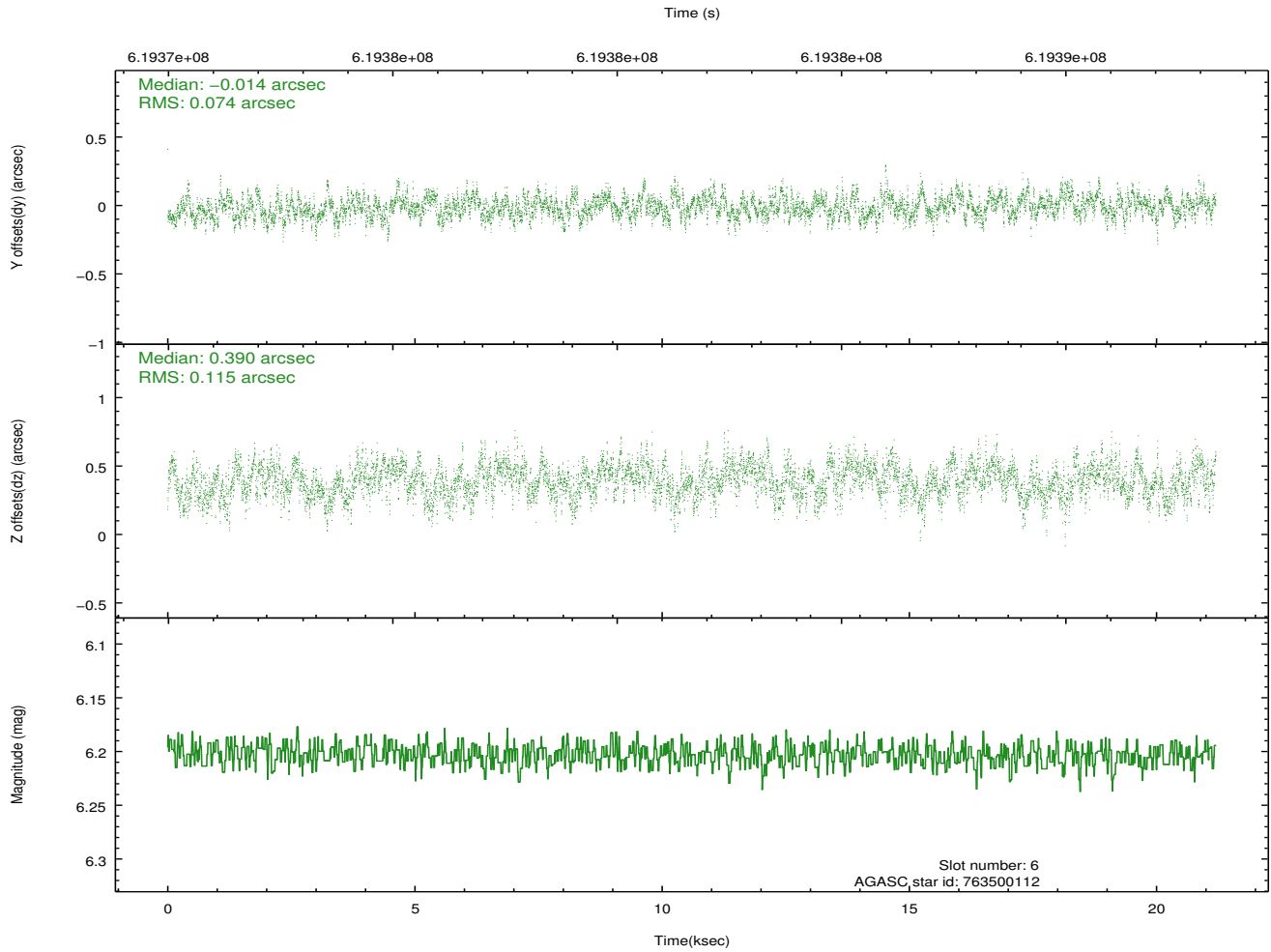
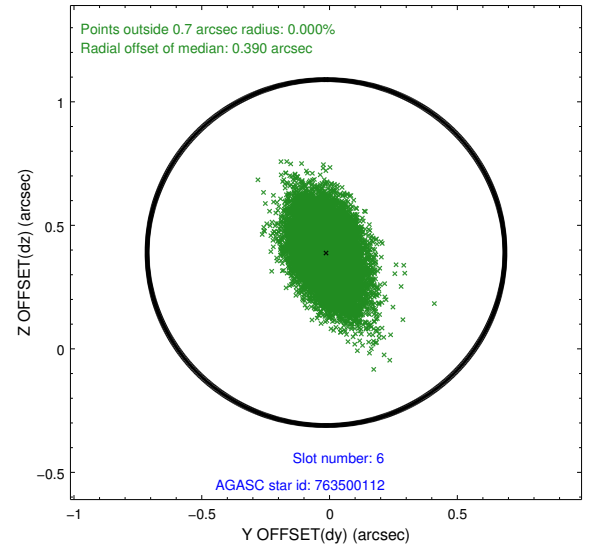
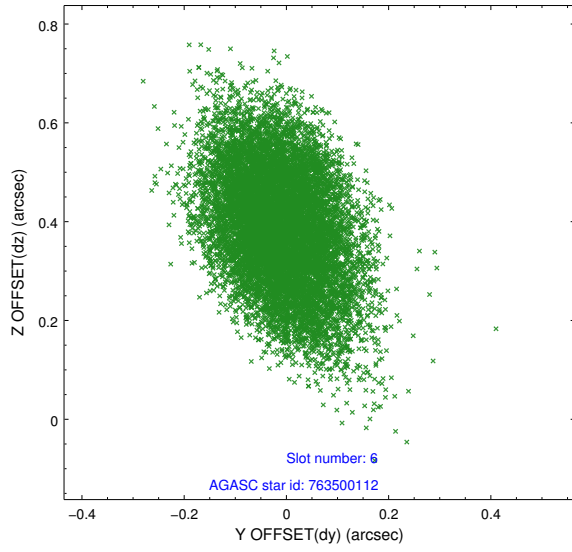
2.4.2 Slot 4



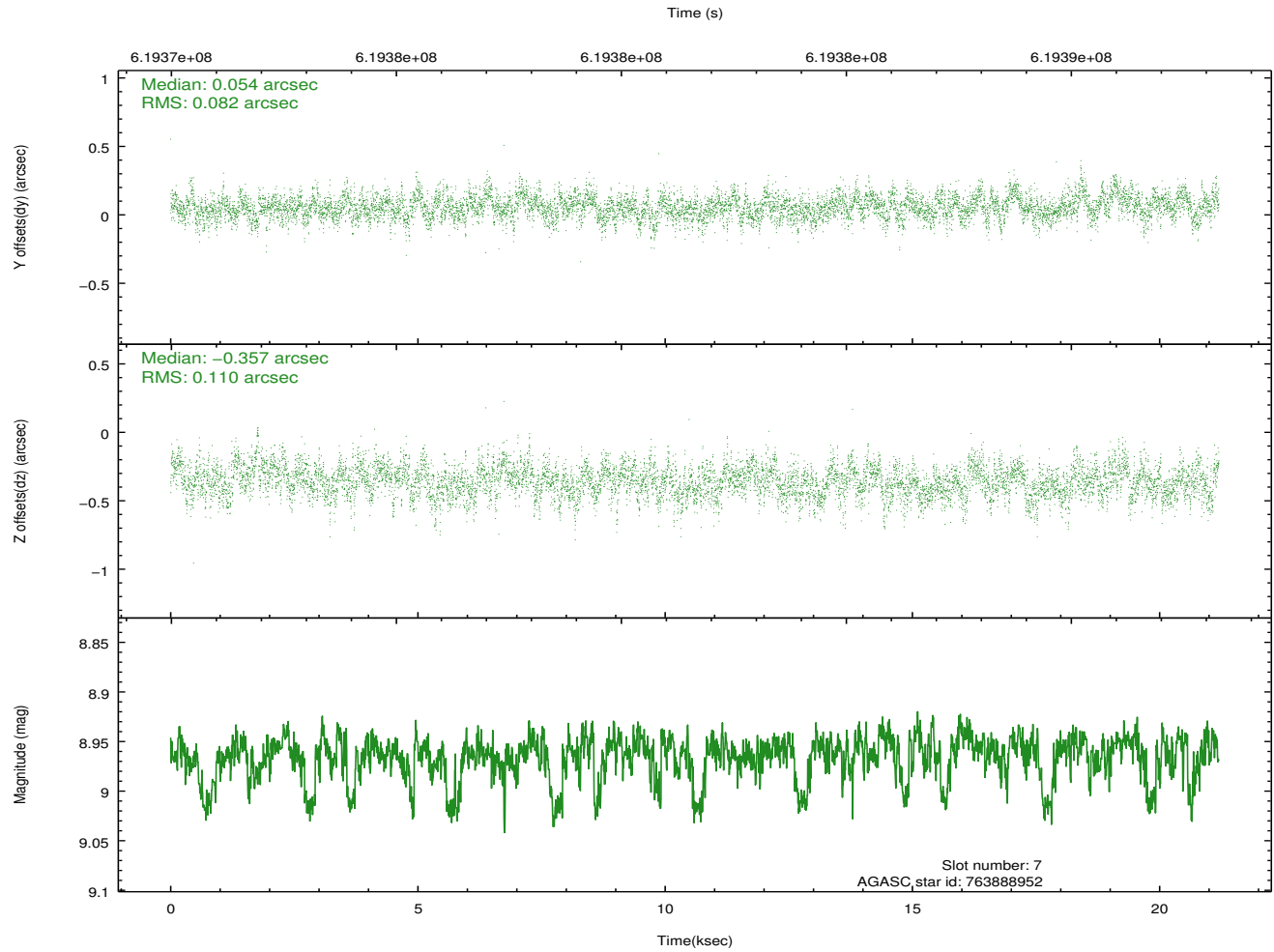
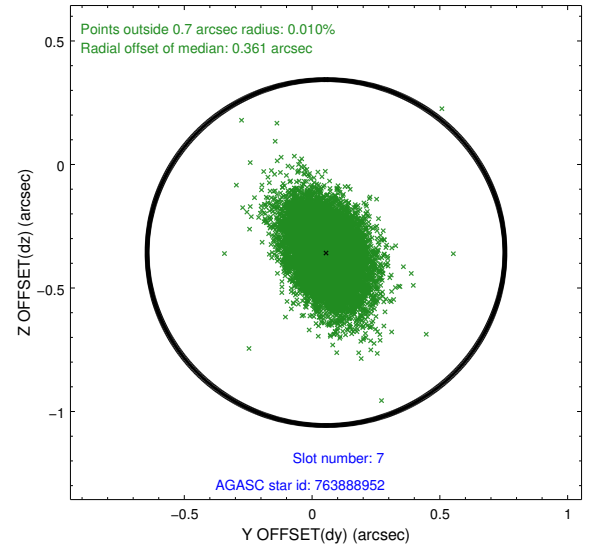
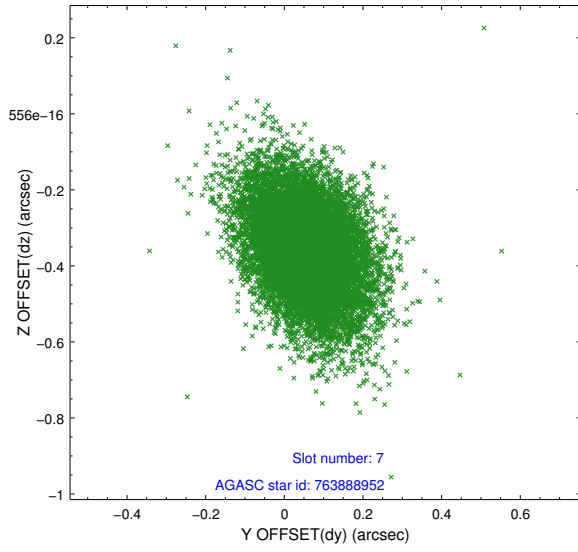
2.4.3 Slot 5



2.4.4 Slot 6

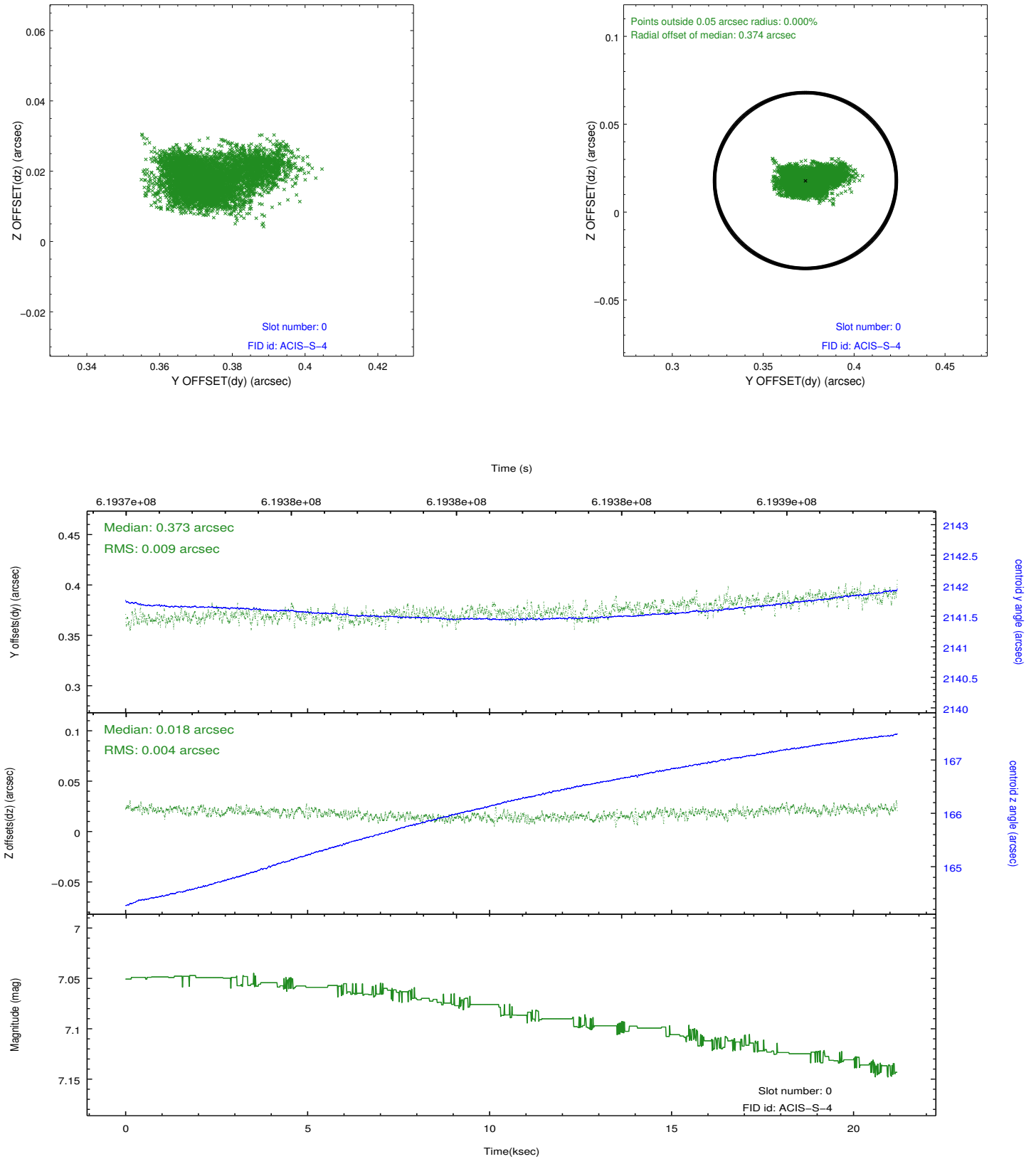


2.4.5 Slot 7

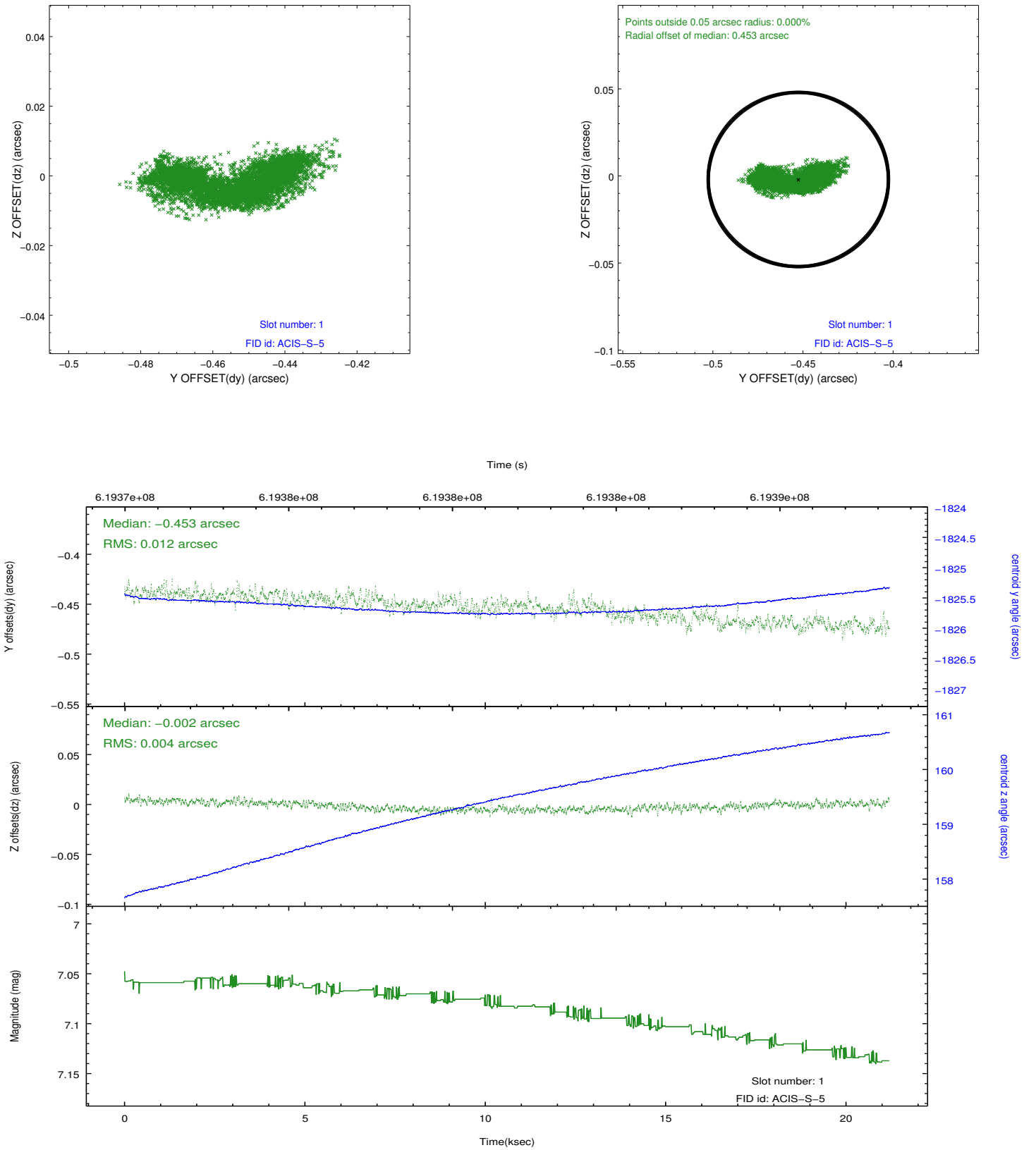


2.5 FID Slots

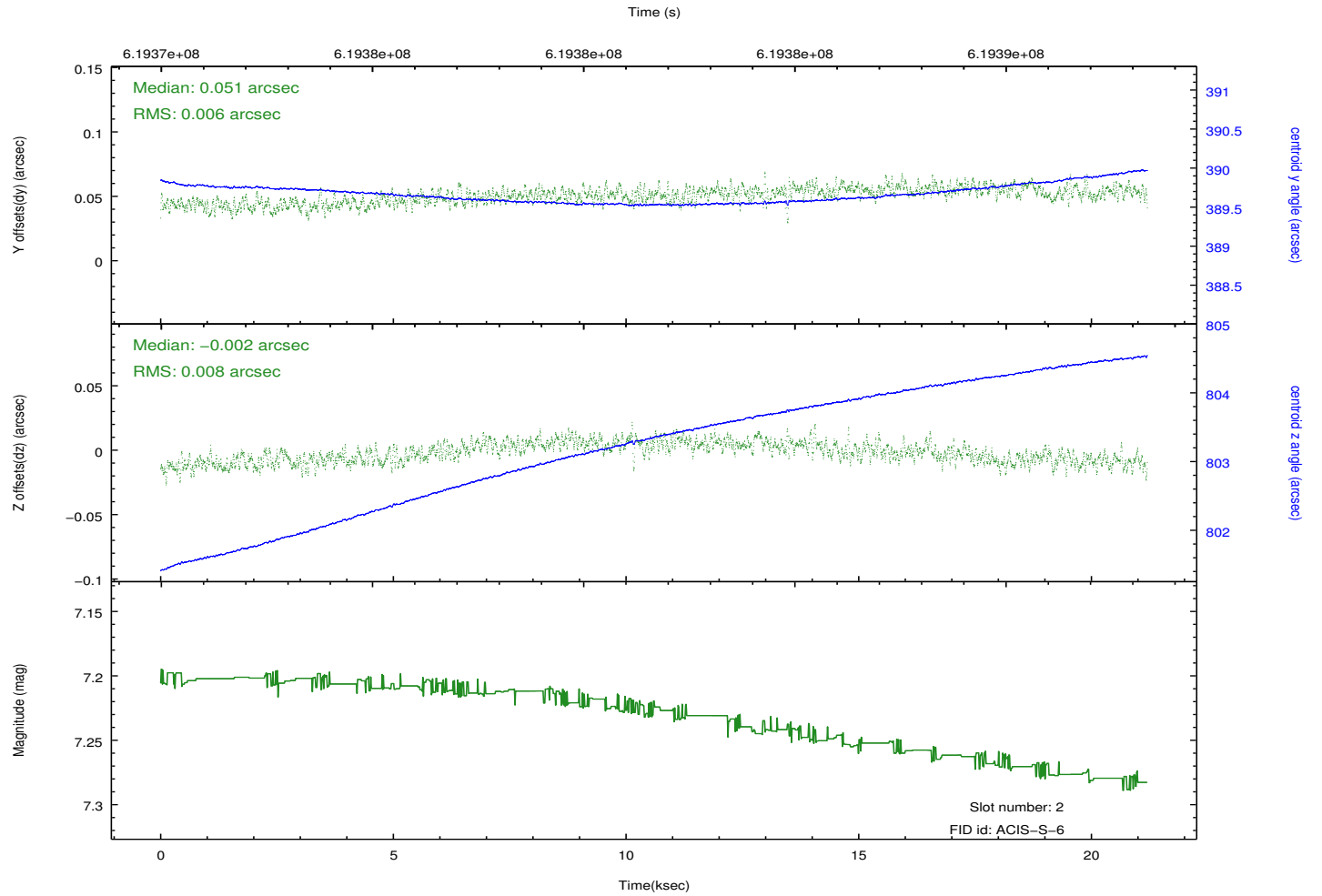
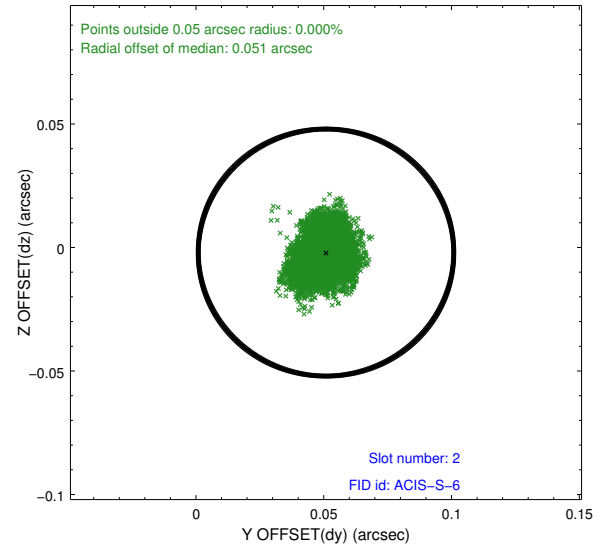
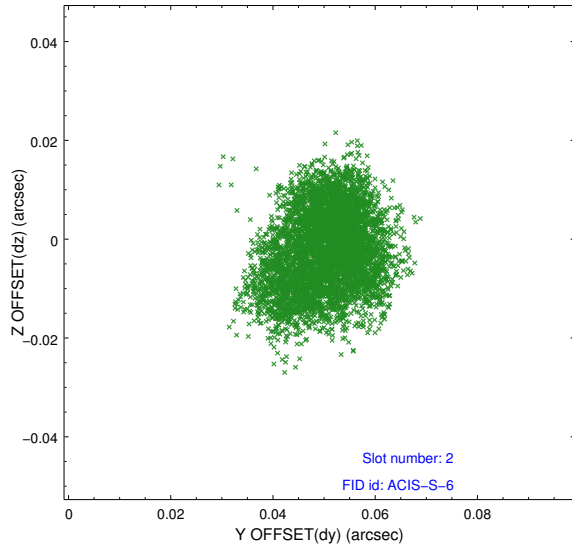
2.5.1 Slot 0



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)	2017.08.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.129600162625

A.2 Comments