

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 17844 - L2 Version 1
Chandra X-Ray Center

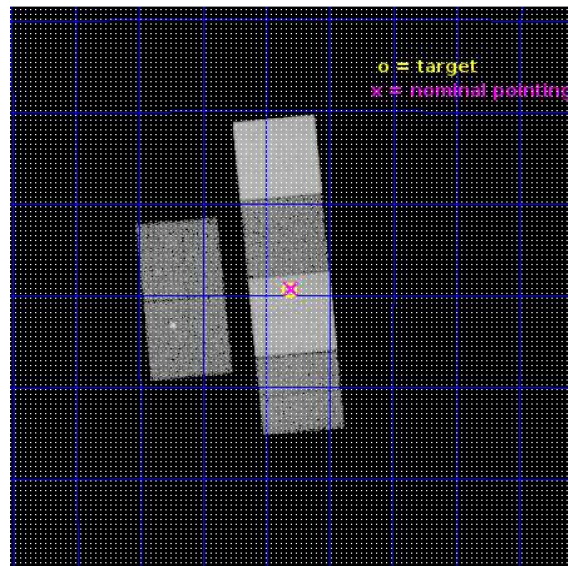
L2 Processing Date : May 13 2017

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1 Front

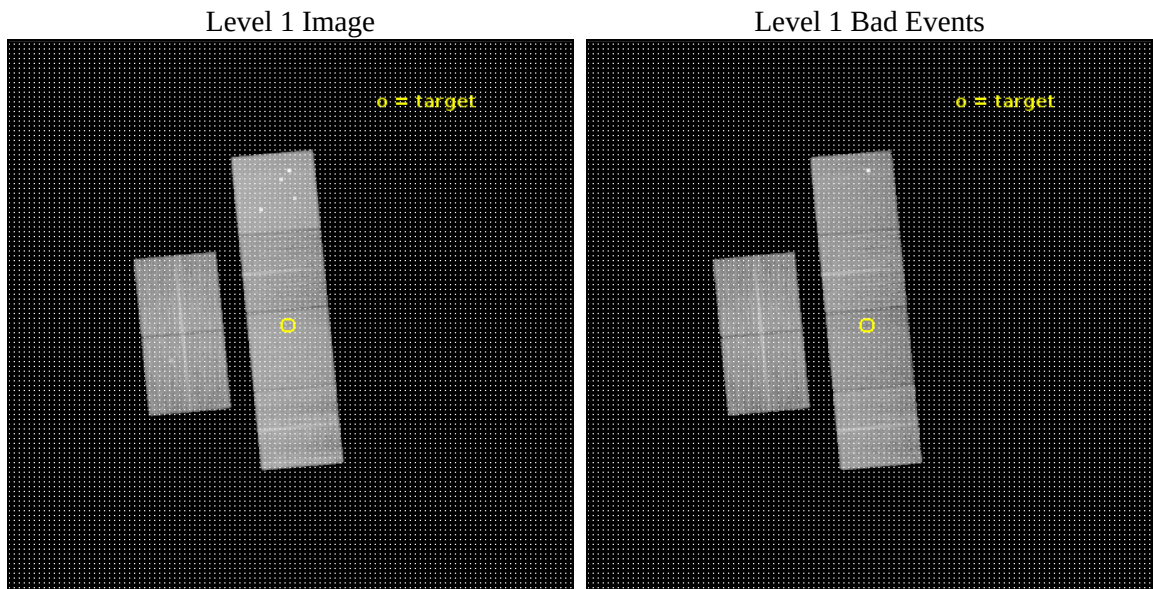
seq_num	401776	Sequence number
obs_id	17844	Observation id
title	The Black Hole Population in Galactic Globular Clusters	Proposal t
observer	Prof Laura Chomiuk	Principal investigator
object	Djorg 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	270.454583	Observer's specified target RA [deg]
dec_targ	-27.825833	Observer's specified target Dec [deg]
ra_nom	270.45043018462	Nominal RA [deg]
dec_nom	-27.821592819584	Nominal Dec [deg]
roll_nom	84.640499292952	Nominal Roll [deg]
revision	1	Processing version of data
ontime	22956.729056597	Sum of GTIs [s]
livetime	22666.037130399	Livetime [s]
ontime2	22956.77009654	Sum of GTIs [s]
ontime3	22956.605936527	Sum of GTIs [s]
ontime5	22956.688016534	Sum of GTIs [s]
ontime6	22956.64697659	Sum of GTIs [s]
ontime7	22956.729056597	Sum of GTIs [s]
ontime8	22956.564896584	Sum of GTIs [s]
l2events	295112	Number of level 2 events



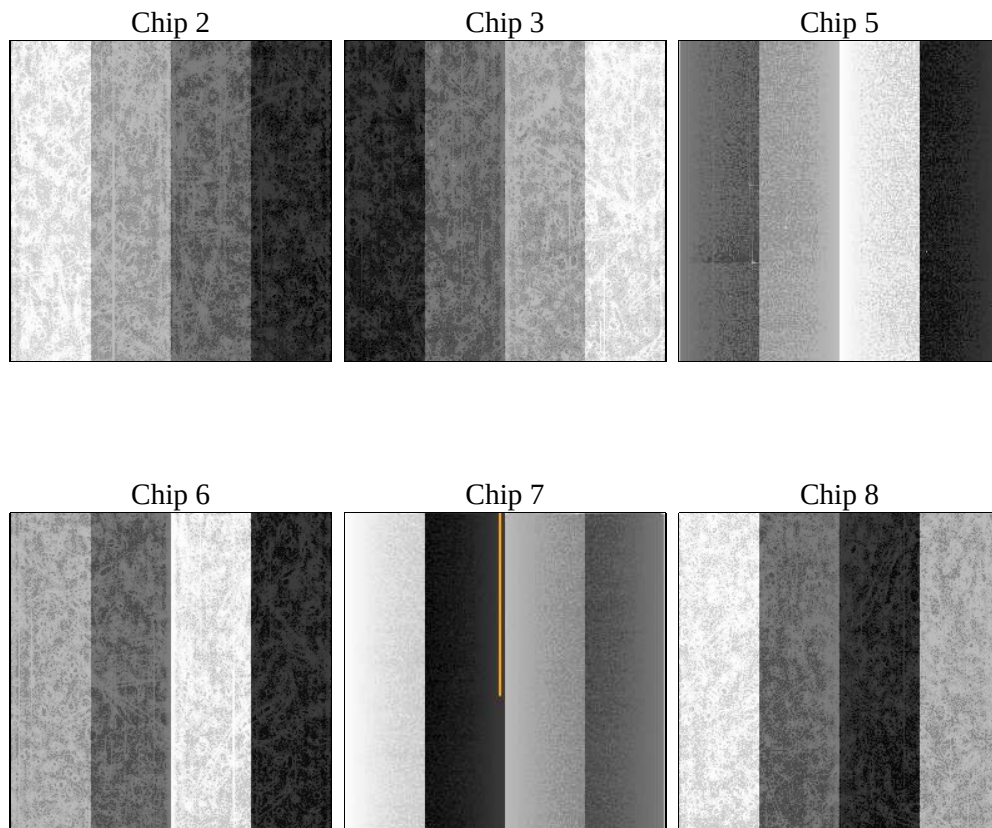
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	22956.729056597	Sum of GTIs [s]
caldsver	4.7.4	 	ontime2	22956.77009654	Sum of GTIs [s]
date	2017-05-13T21:47:58	Date and time of file creation	ontime3	22956.605936527	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	22956.688016534	Sum of GTIs [s]
			ontime6	22956.64697659	Sum of GTIs [s]
			ontime7	22956.729056597	Sum of GTIs [s]
			ontime8	22956.564896584	Sum of GTIs [s]
			l1events	1239656	Number of level 1 events

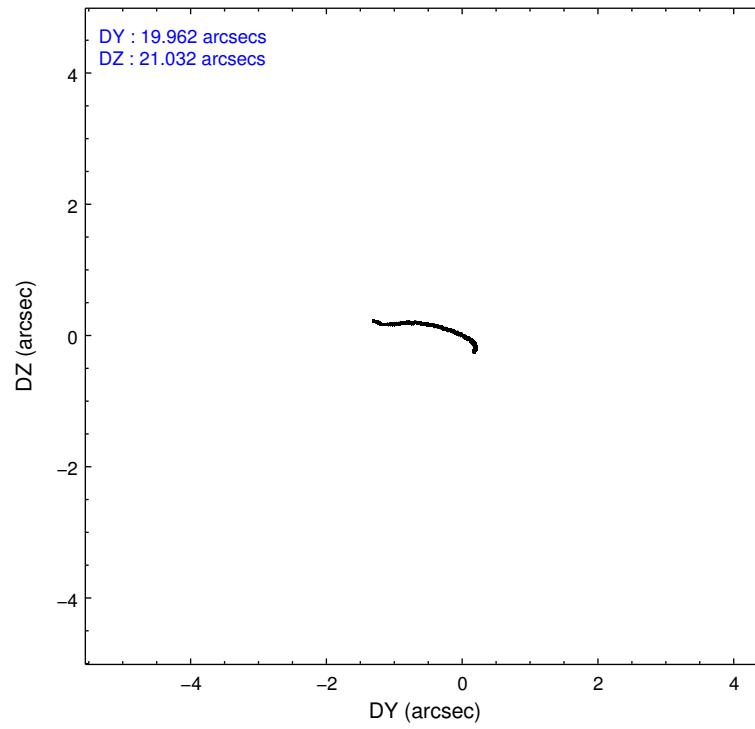
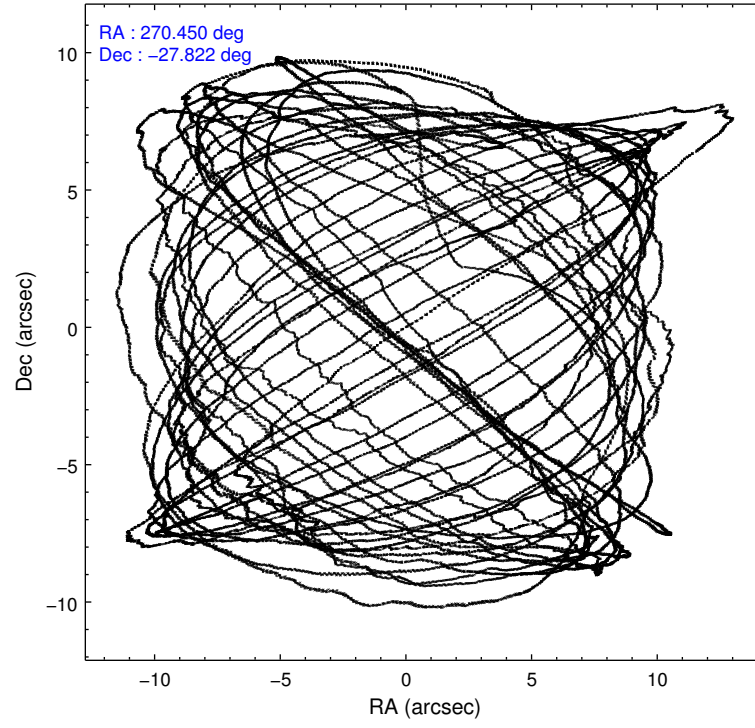
2.1.4 Events

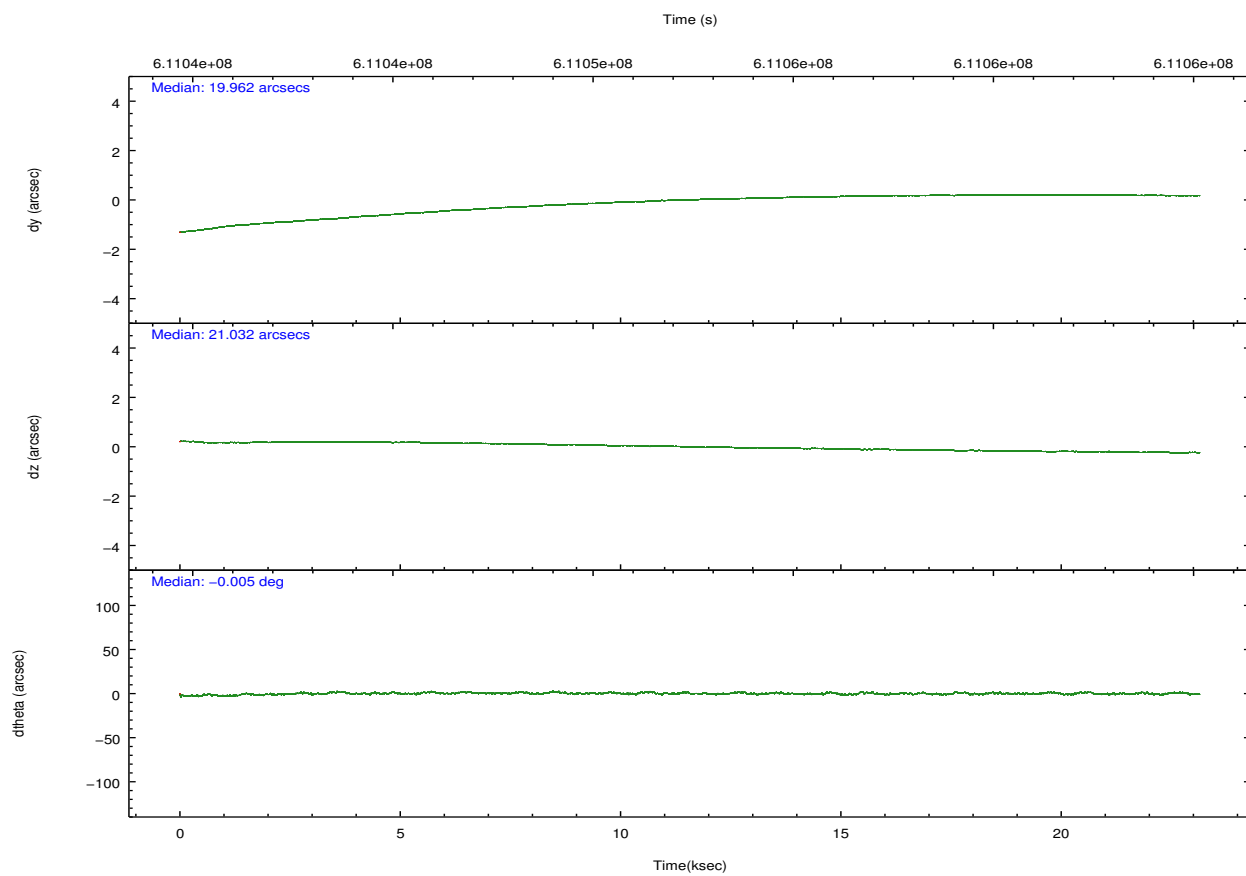
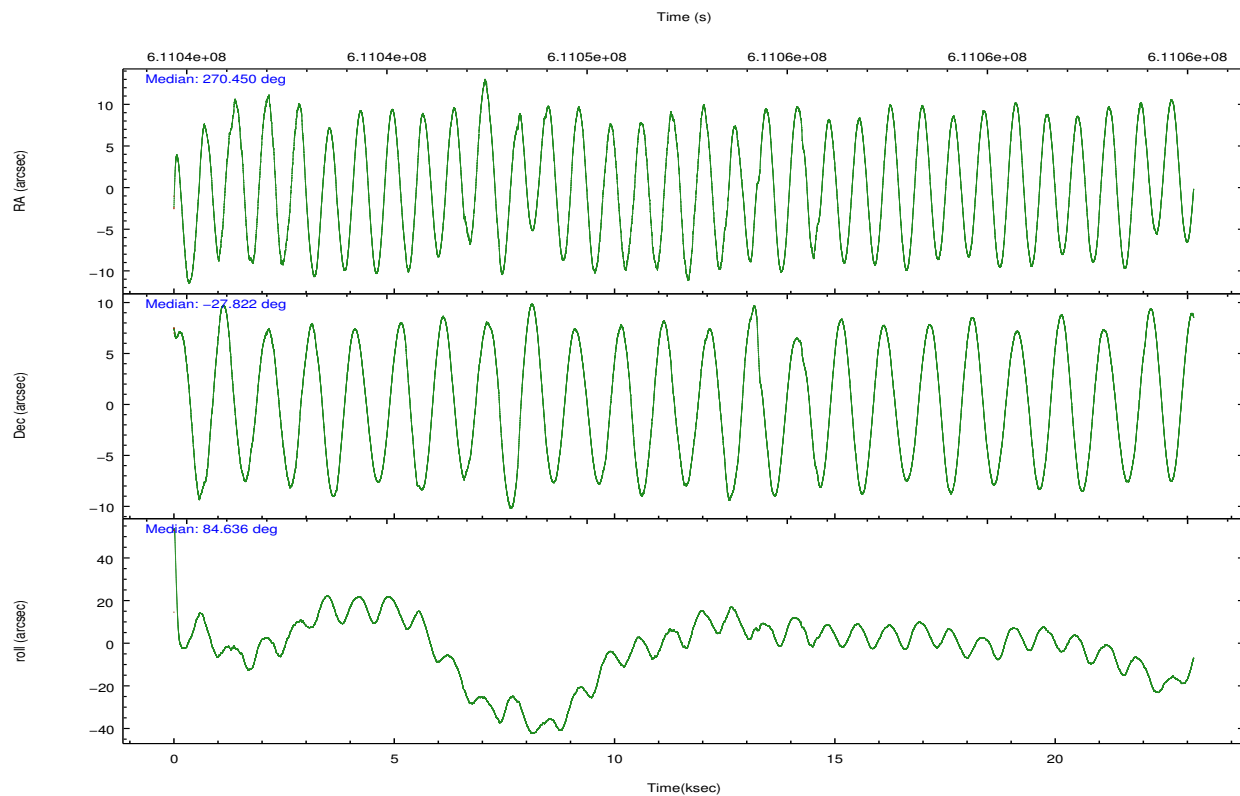
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	176906	161307	286352	172998	219244	222849	grade 0 events	8272	8207	21678	8269	9000	18820
rejected events	156211	141639	144773	151683	120880	160393		4%	5%	7%	4%	4%	8%
rejected %	88%	87%	50%	87%	55%	71%	grade 1 events	126	116	608	105	325	196
								0%	0%	0%	0%	0%	0%
							grade 2 events	5004	4024	41330	4709	20997	15159
								2%	2%	14%	2%	9%	6%
							grade 3 events	1876	1929	4165	1980	8133	6361
								1%	1%	1%	1%	3%	2%
							grade 4 events	1937	1850	4024	1961	8152	5796
								1%	1%	1%	1%	3%	2%
							grade 5 events	6733	7883	19739	8050	21623	11943
								3%	4%	6%	4%	9%	5%
							grade 6 events	3612	3662	70422	4401	52110	16330
								2%	2%	24%	2%	23%	7%
							grade 7 events	149346	133636	124386	143523	98904	148244
								84%	82%	43%	82%	45%	66%

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	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	270.463753	270.4504301846181	CCD I2 on	O1	Y
[deg] Pointing Dec	-27.846405	-27.82159281958352	CCD I3 on	O2	Y
[deg] Pointing Roll	84.490062	84.64049929295157	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	611040964.184000	611039765.88845	CCD S5 on	N	N
Observation start date	2017-05-13T05:34:55	2017-05-13T05:16:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	611063964.184000	611065297.61494	On-chip summing requested	N	N
Observation end date	2017-05-13T11:58:15	2017-05-13T12:21:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



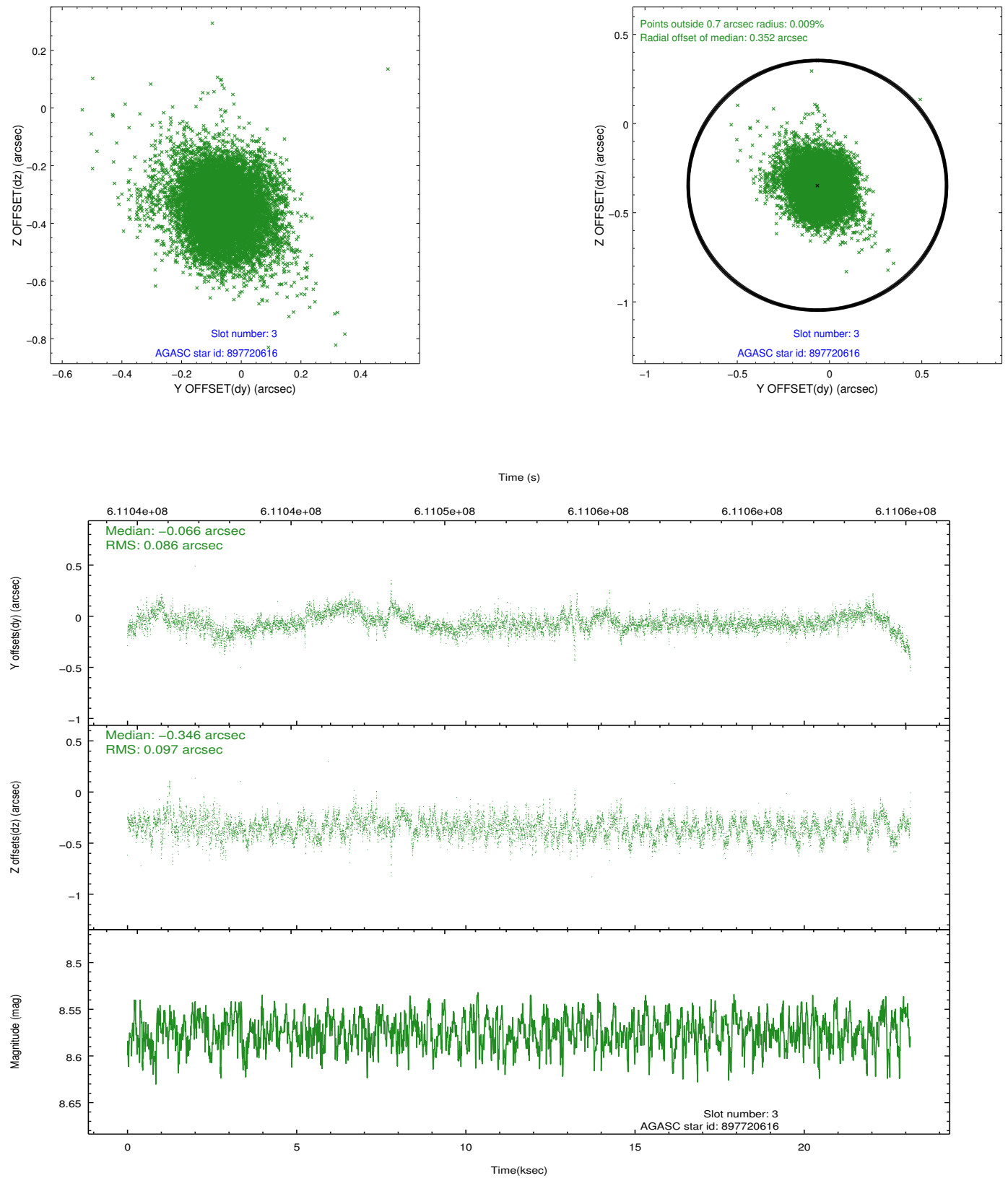


Slot Statistics

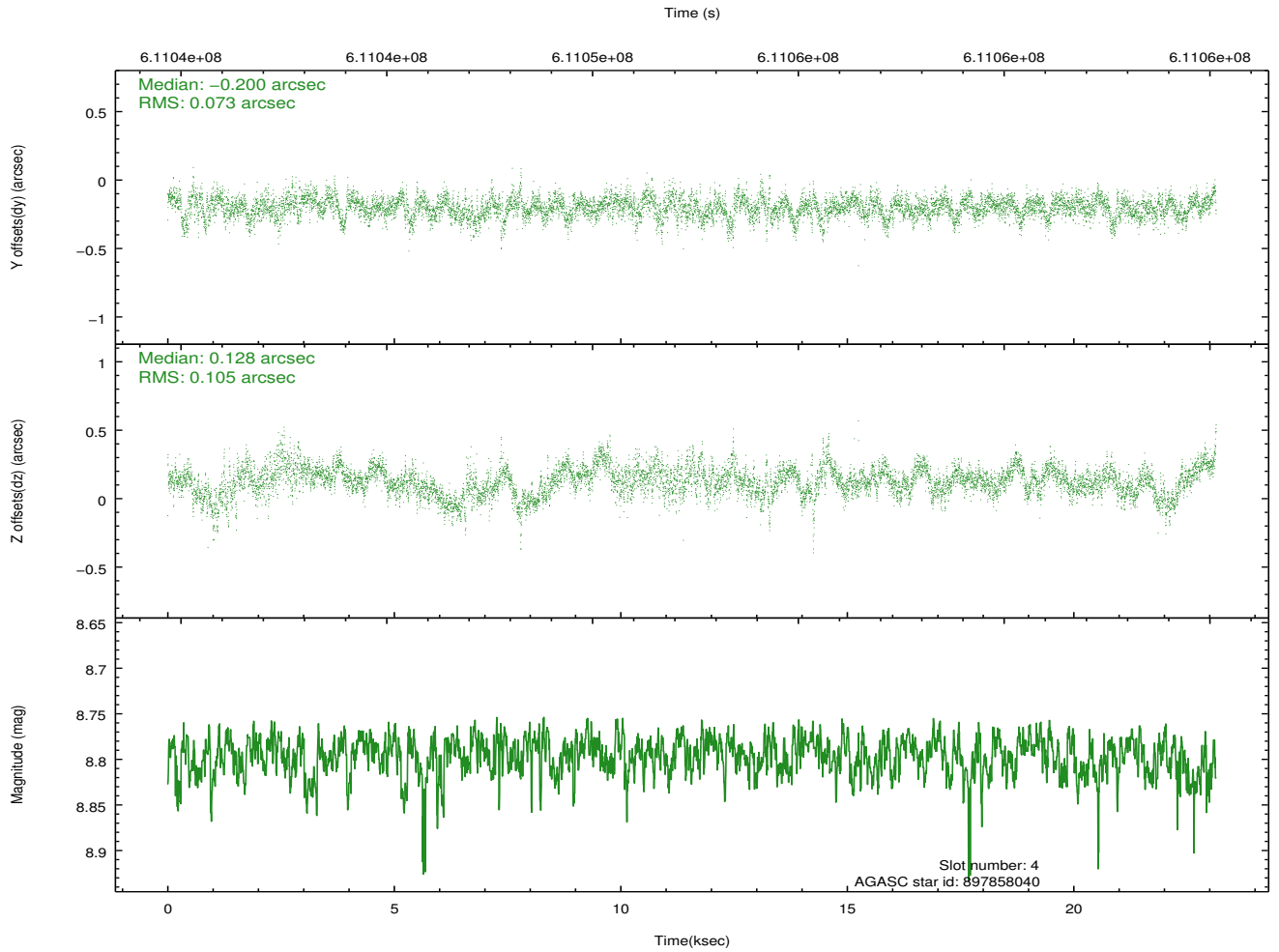
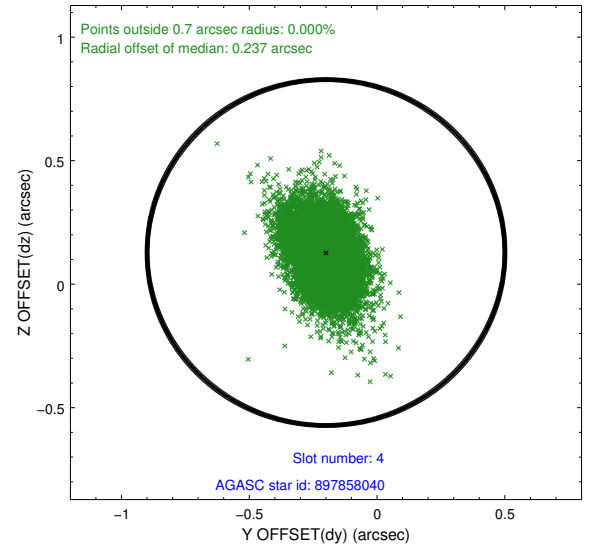
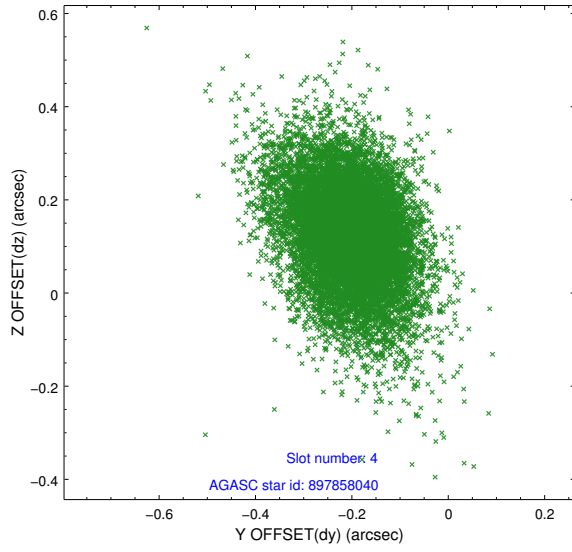
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.06	5645	-0.100	-0.111	0.012	0.020	0.000000	0.000000	923.03	-1738.33
1	FID		ACIS-S-4	7.09	5644	0.226	0.091	0.013	0.024	0.000000	0.000000	2140.86	165.87
2	FID		ACIS-S-6	7.22	5645	-0.150	0.033	0.013	0.023	0.000000	0.000000	389.13	803.35
3	GUIDE	used	897720616	8.57	11282	-0.066	-0.346	0.133	0.230	269.886360	-27.876425	-288.37	1817.87
4	GUIDE	used	897858040	8.80	11283	-0.200	0.128	0.130	0.230	270.624628	-27.412630	1603.37	-361.31
5	GUIDE	used	897862152	9.24	11269	-0.029	-0.223	0.195	0.317	270.075629	-28.076037	-943.00	1147.35
6	GUIDE	used	898371304	8.39	11280	0.268	0.410	0.135	0.240	270.531151	-28.390506	-1928.91	-400.10
7	GUIDE	used	897863608	9.18	11274	0.017	0.033	0.187	0.320	270.901142	-27.220823	2373.80	-1177.50

2.4 Star Slots

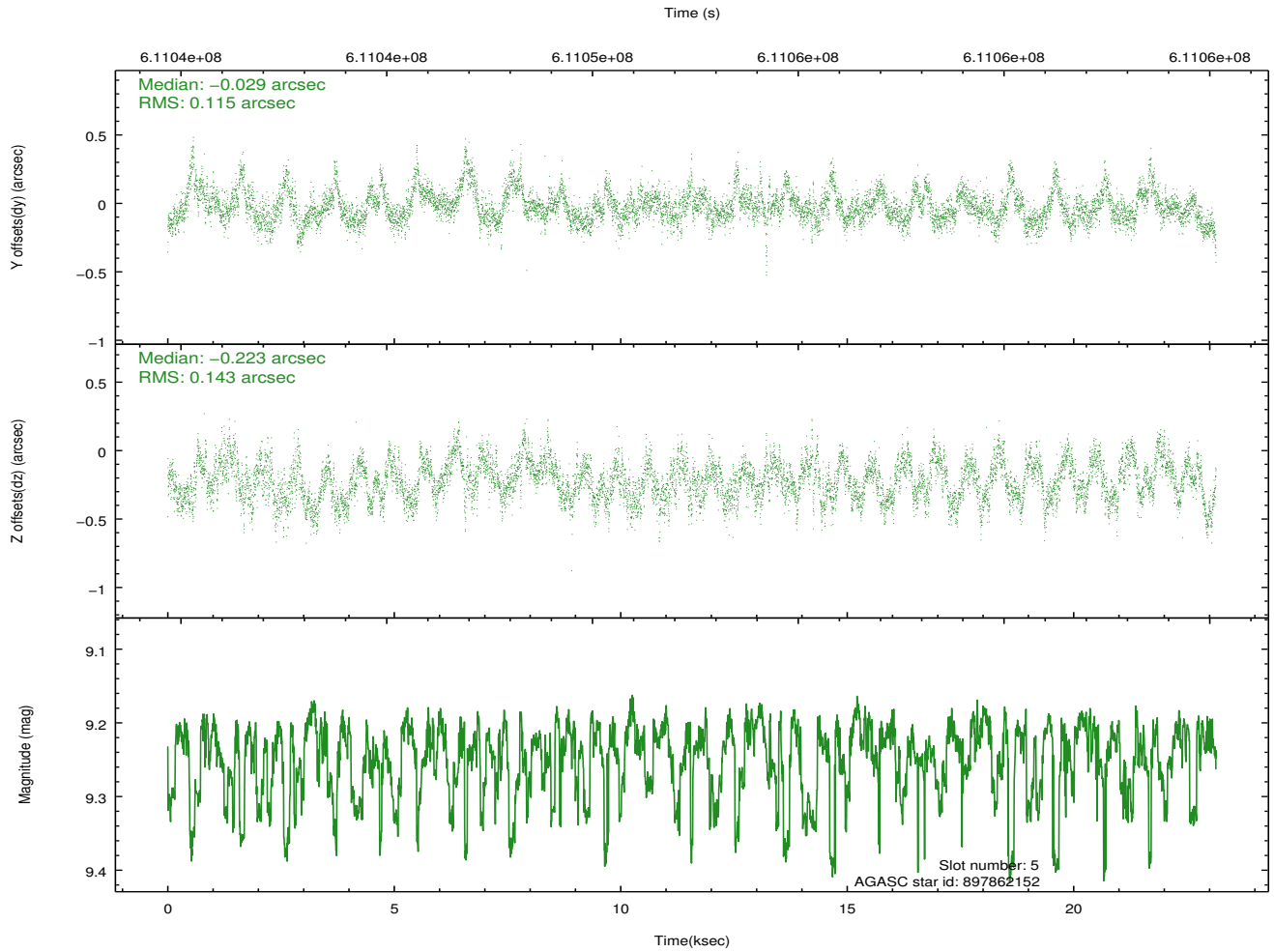
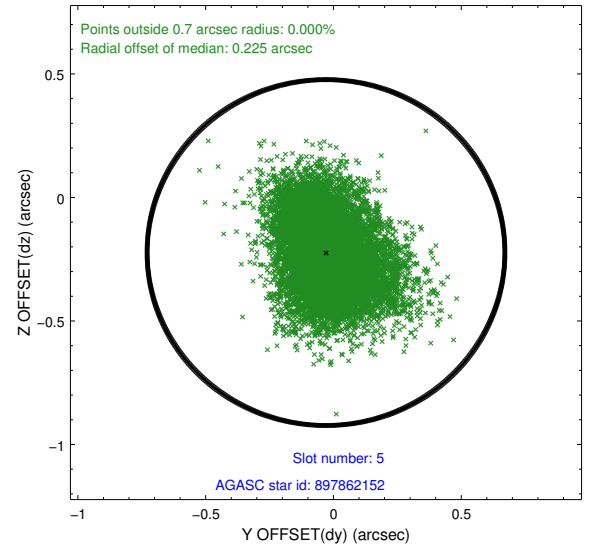
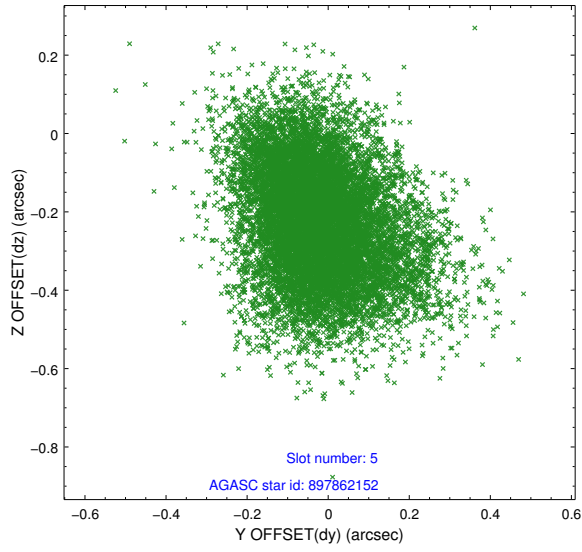
2.4.1 Slot 3



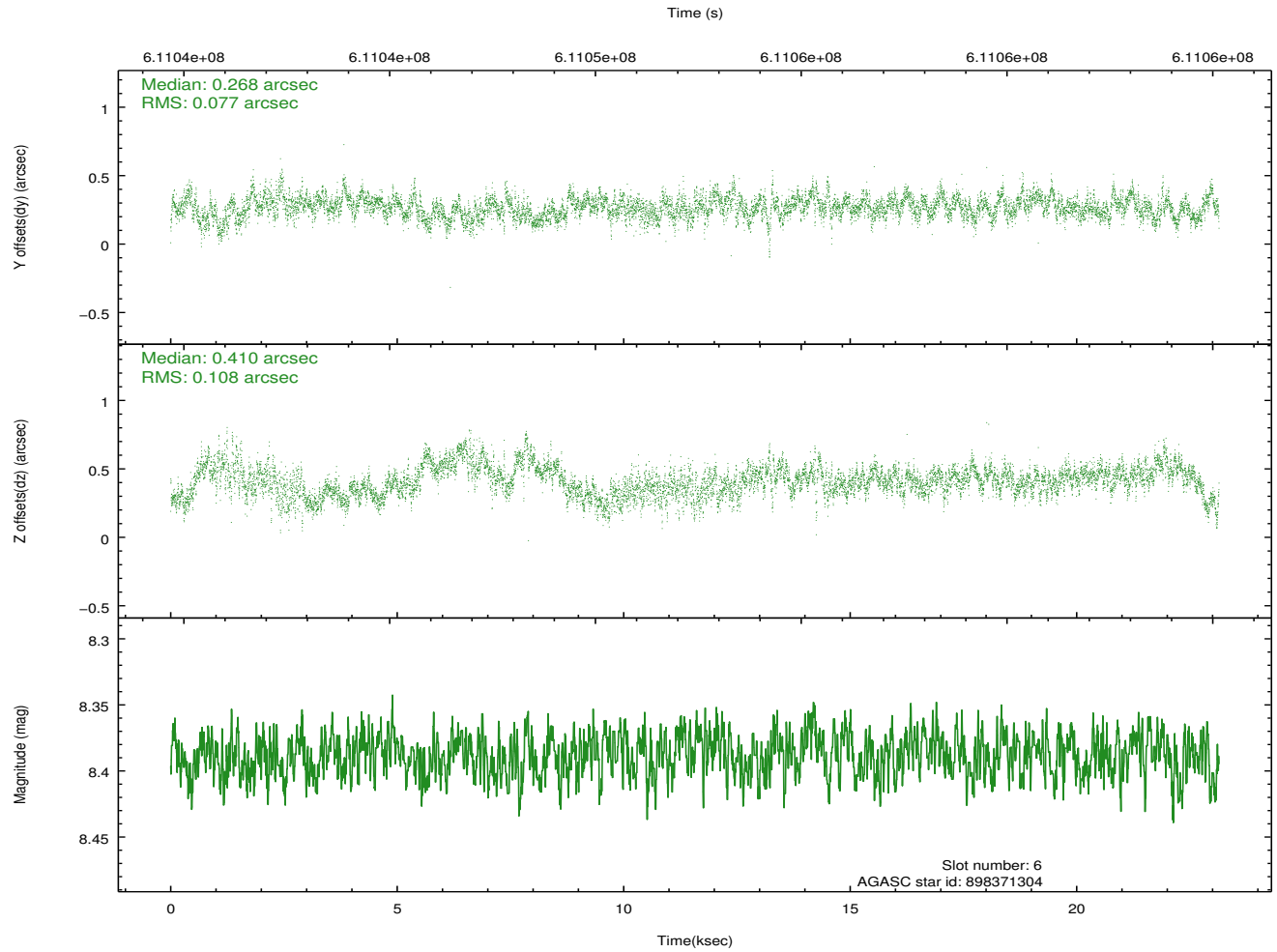
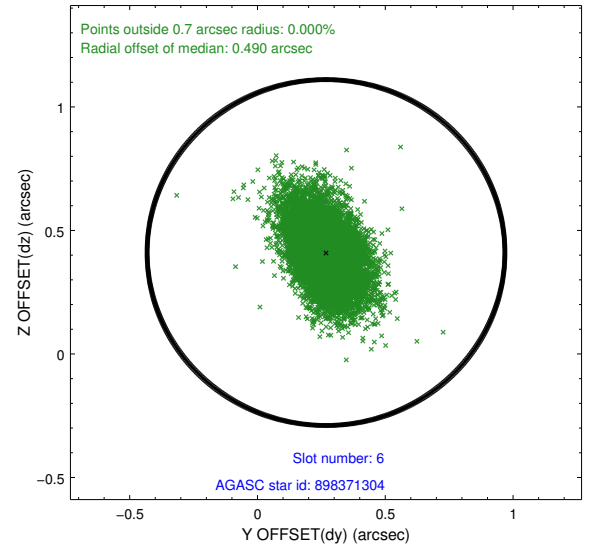
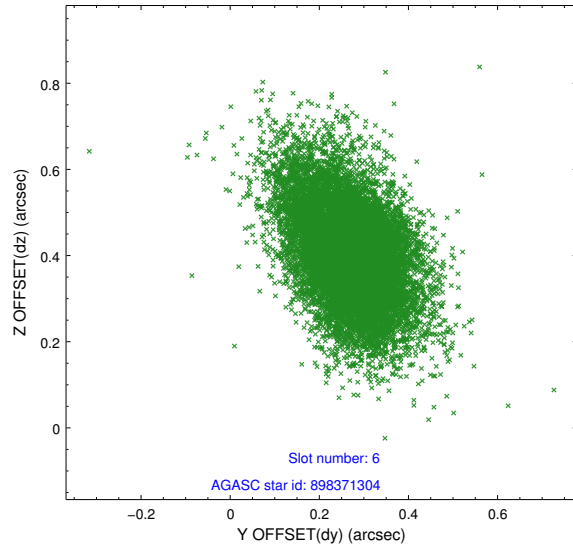
2.4.2 Slot 4



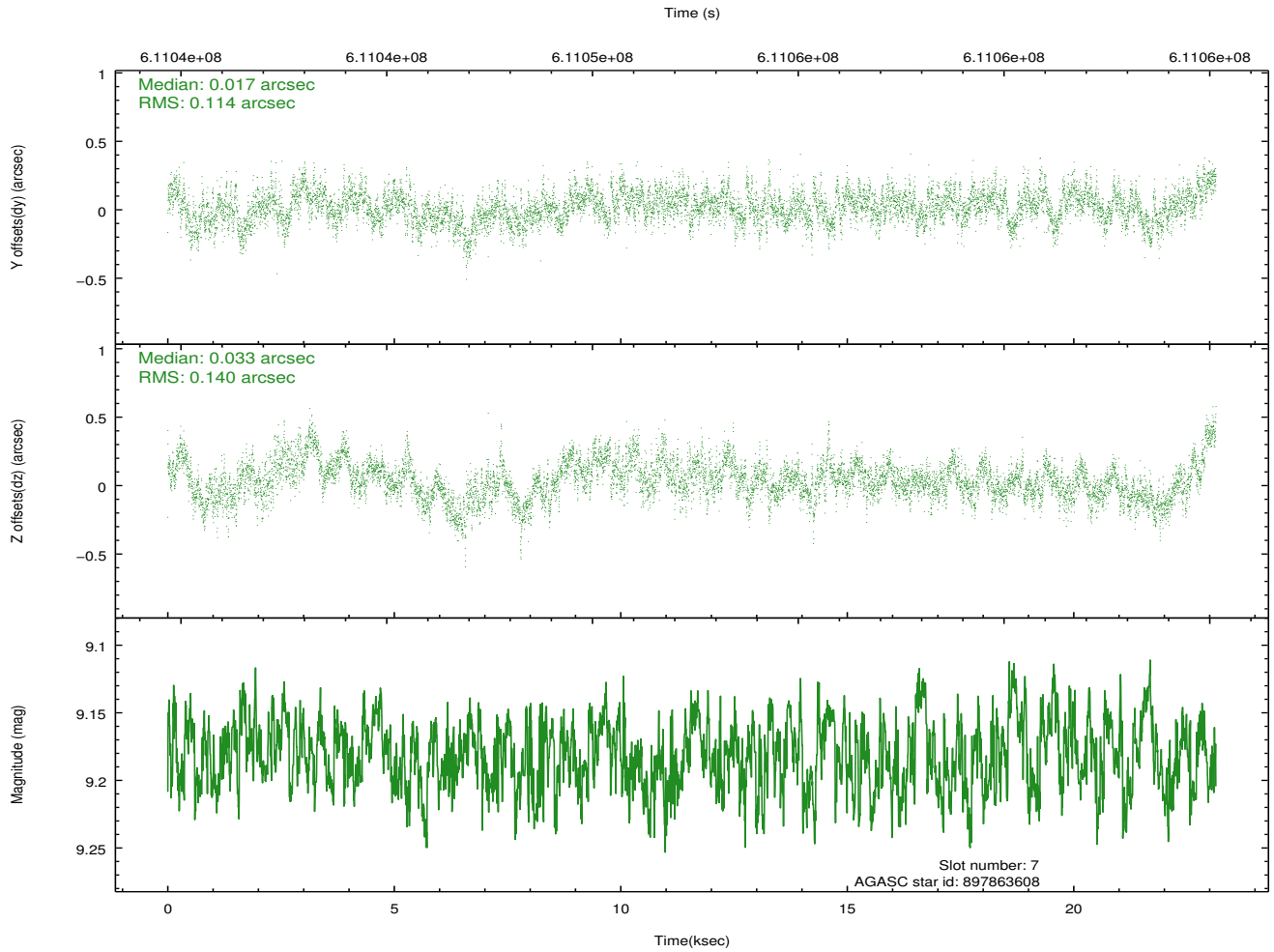
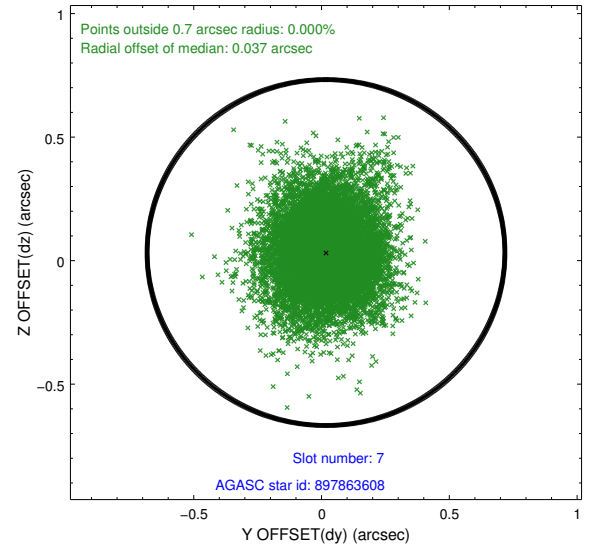
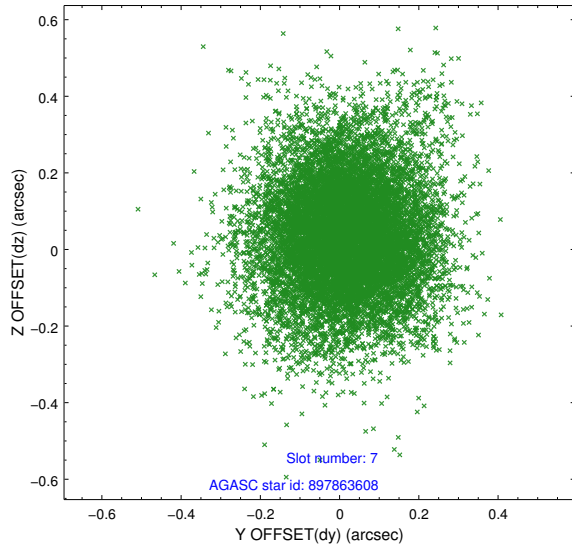
2.4.3 Slot 5



2.4.4 Slot 6

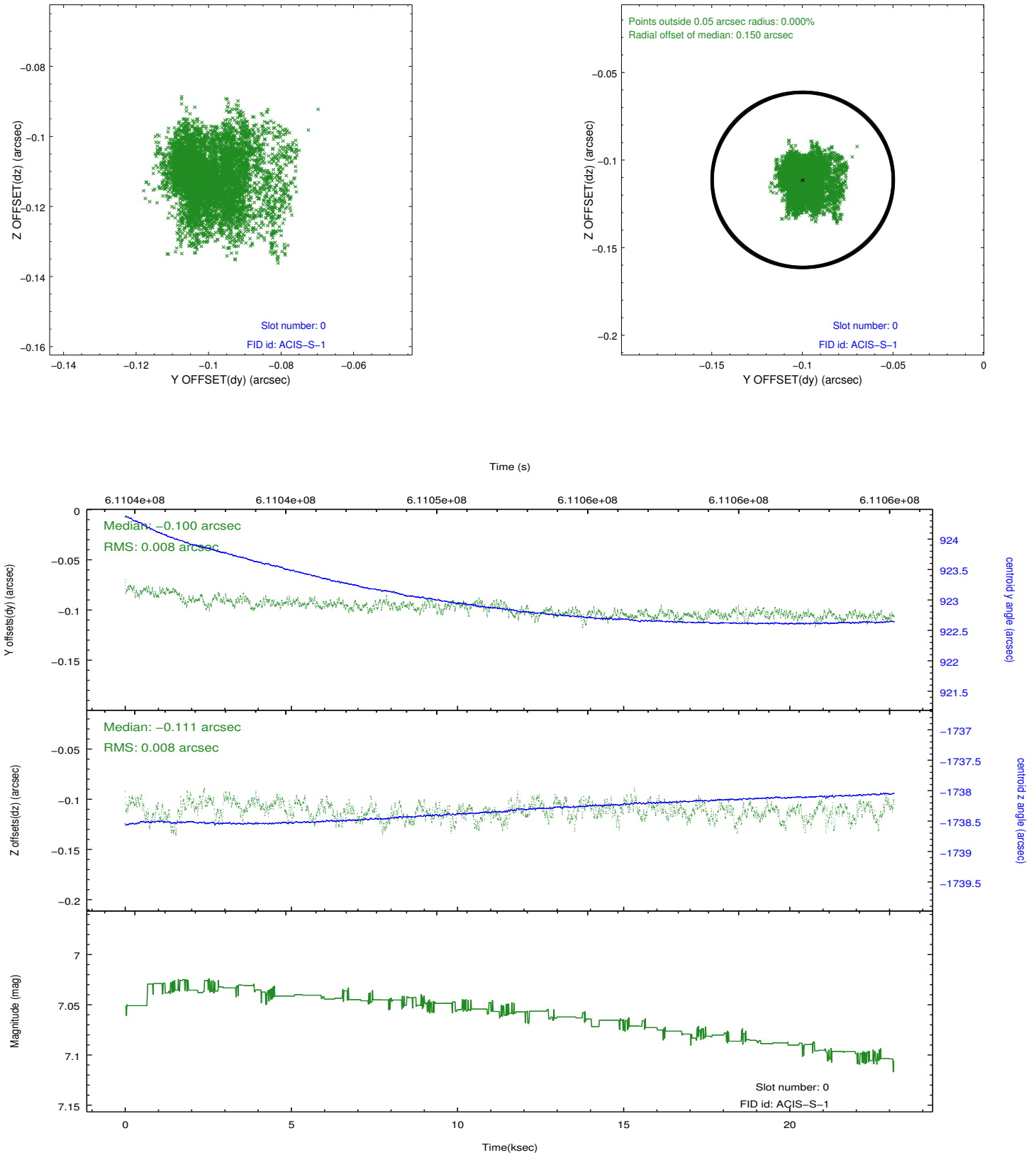


2.4.5 Slot 7

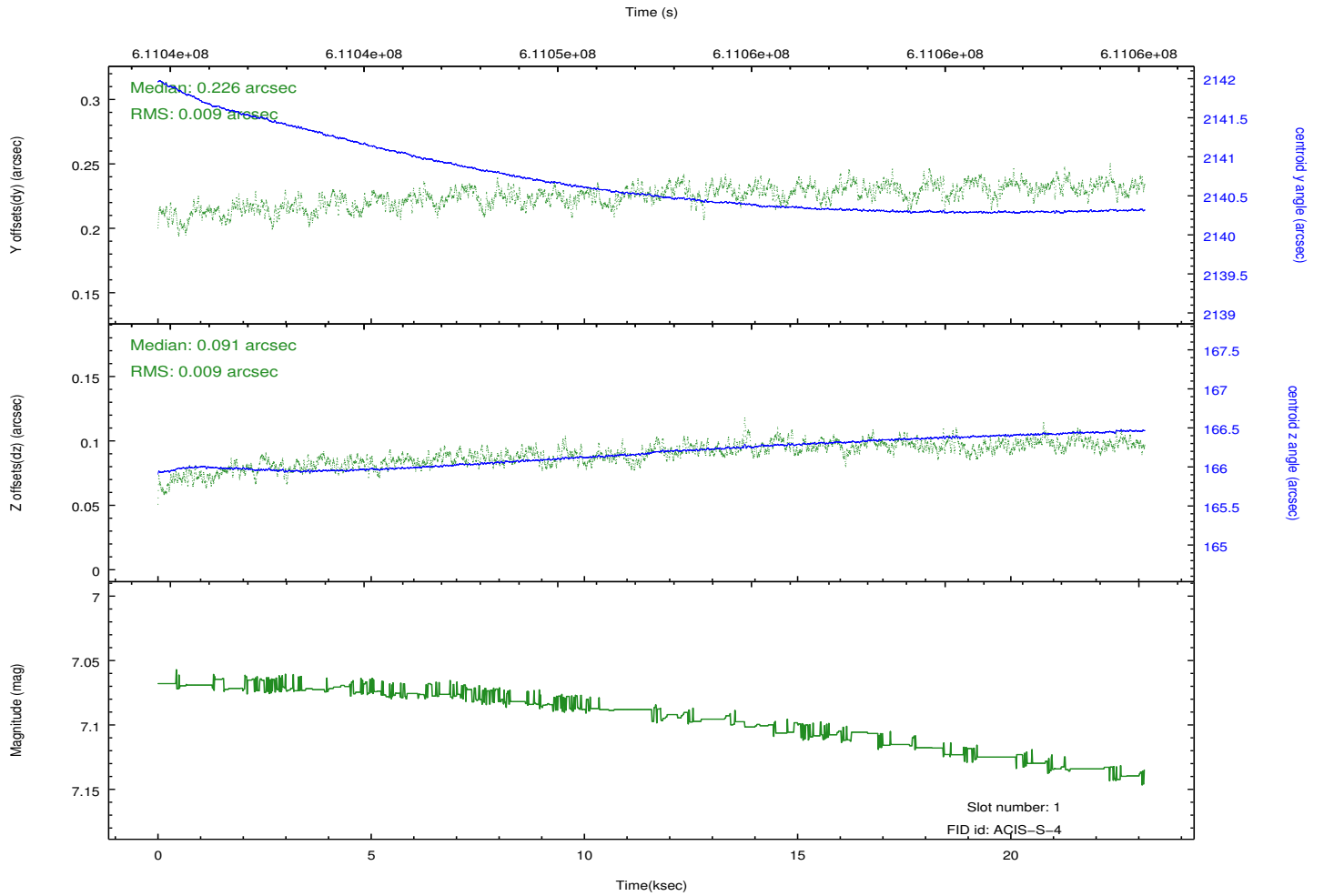
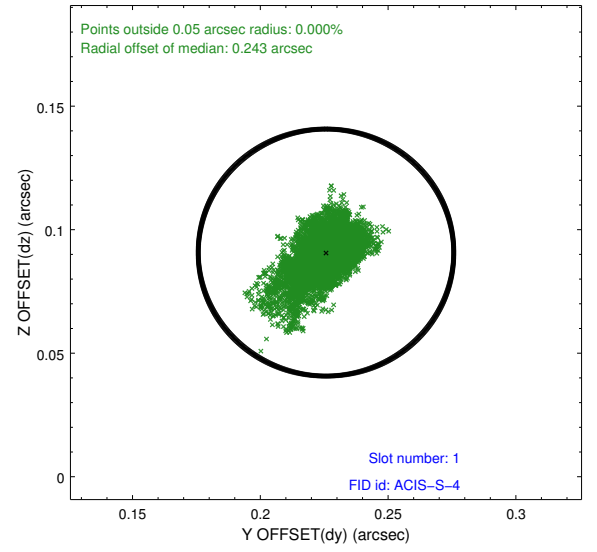
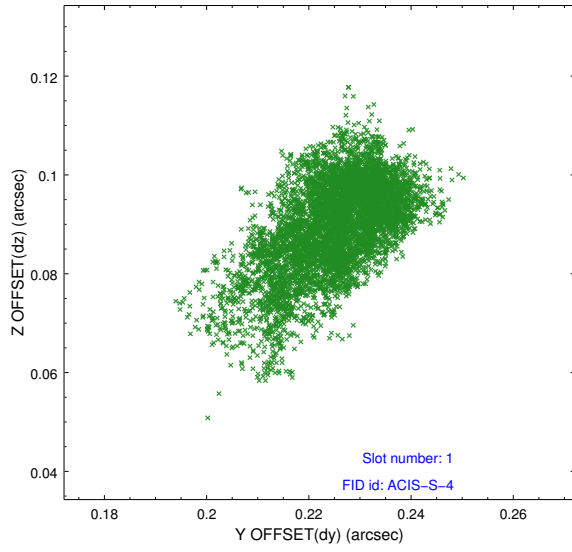


2.5 FID Slots

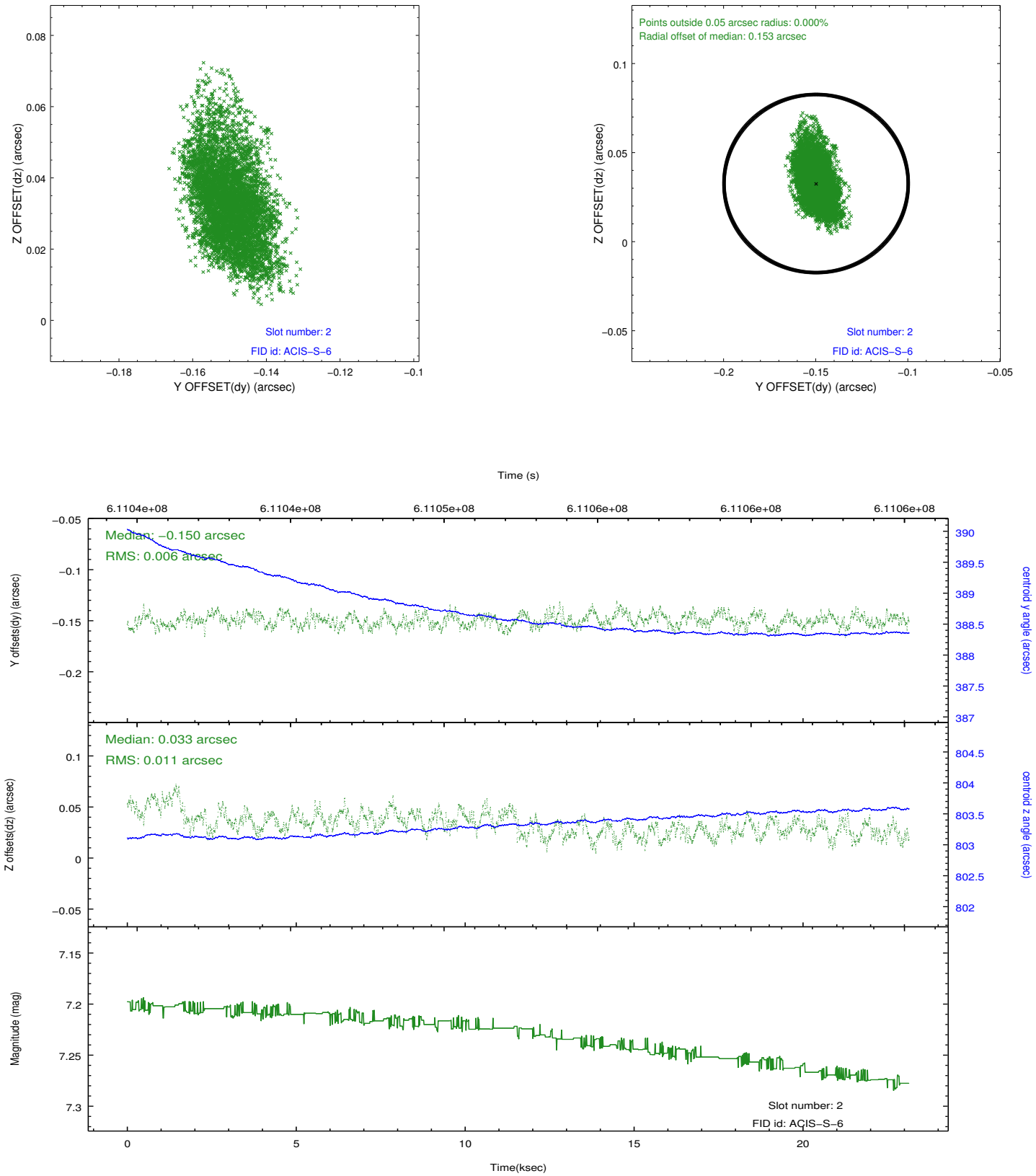
2.5.1 Slot 0



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)	2017.05.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.956729056597

A.2 Comments