

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9960 - L2 Version 2
Chandra X-Ray Center

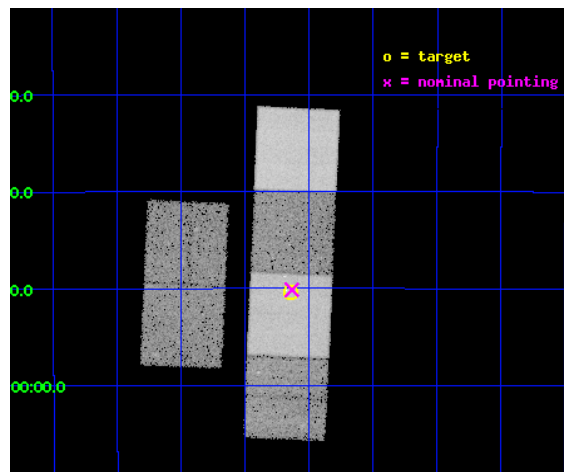
L2 Processing Date : May 30 2012

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1 Front

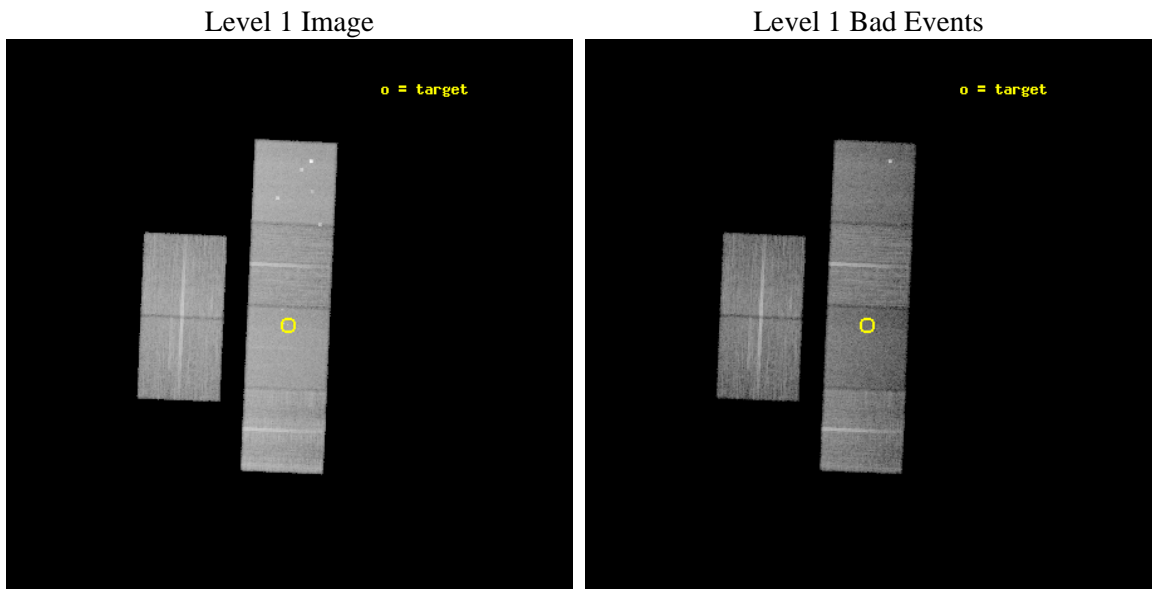
seq_num	300247	Sequence number
obs_id	9960	Observation id
title	Understanding the Current Dynamical States of Globular Clusters	Pr
observer	Prof. David Pooley	Principal investigator
object	Terzan 9	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	270.411667	Observer's specified target RA [deg]
dec_targ	-26.839722	Observer's specified target Dec [deg]
ra_nom	270.40861067302	Nominal RA [deg]
dec_nom	-26.835715484406	Nominal Dec [deg]
roll_nom	92.502834004344	Nominal Roll [deg]
revision	2	Processing version of data
ontime	17320.951836765	Sum of GTIs [s]
livetime	17101.623515183	Livetime [s]
ontime2	17317.751926363	Sum of GTIs [s]
ontime3	17320.828716755	Sum of GTIs [s]
ontime5	17320.910796762	Sum of GTIs [s]
ontime6	17317.628786445	Sum of GTIs [s]
ontime7	17320.951836765	Sum of GTIs [s]
ontime8	17320.787676752	Sum of GTIs [s]
l2events	240997	Number of level 2 events



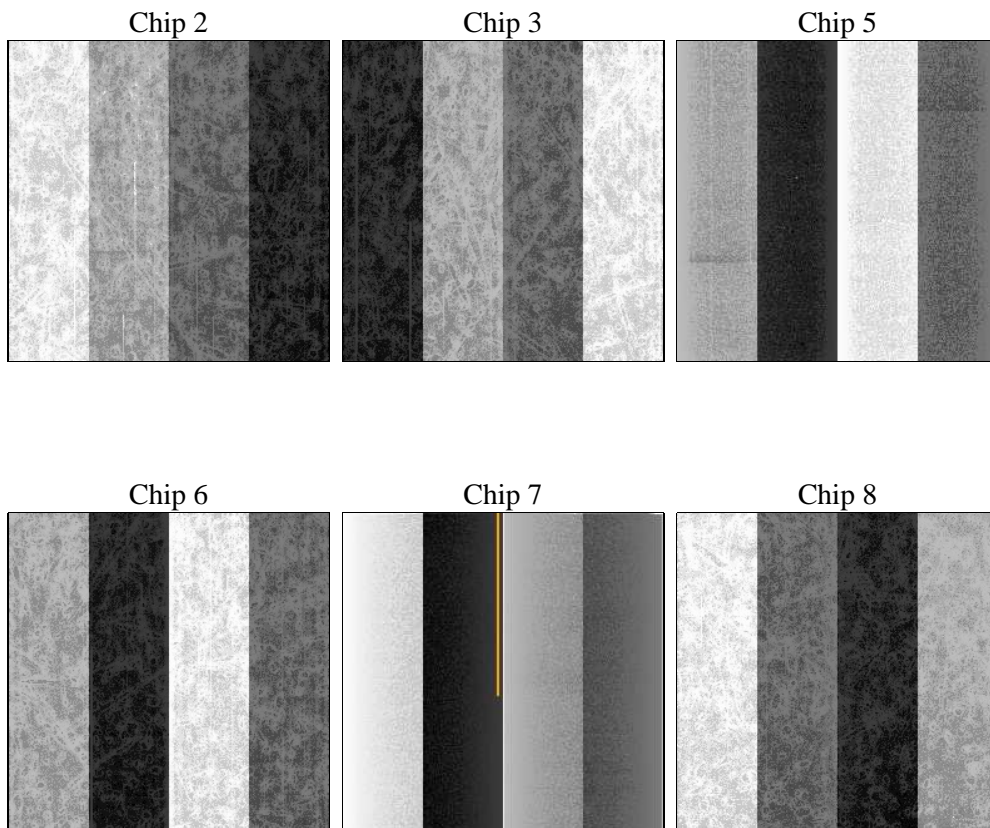
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	17279.349000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	17320.951836765	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	17317.751926363	Sum of GTIs [s]
date	2012-05-31T00:05:09	Date and time of file creation	ontime3	17320.828716755	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	17320.910796762	Sum of GTIs [s]
			ontime6	17317.628786445	Sum of GTIs [s]
			ontime7	17320.951836765	Sum of GTIs [s]
			ontime8	17320.787676752	Sum of GTIs [s]
			l1events	1025730	Number of level 1 events

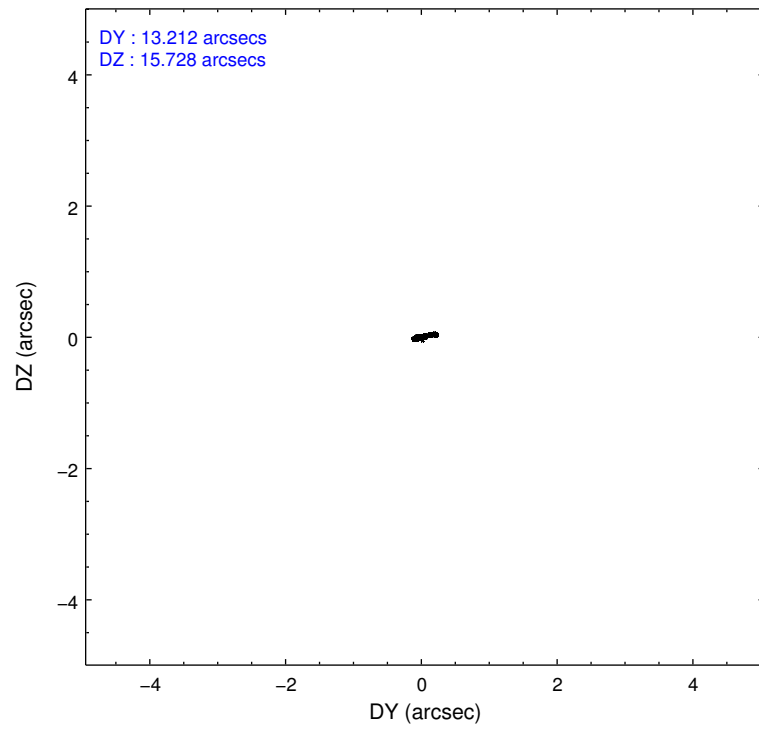
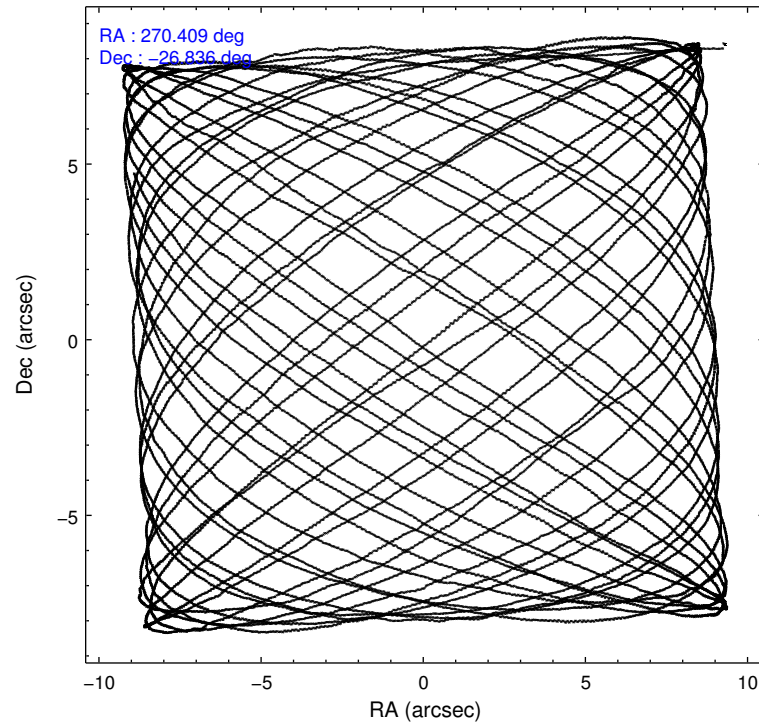
2.1.4 Events

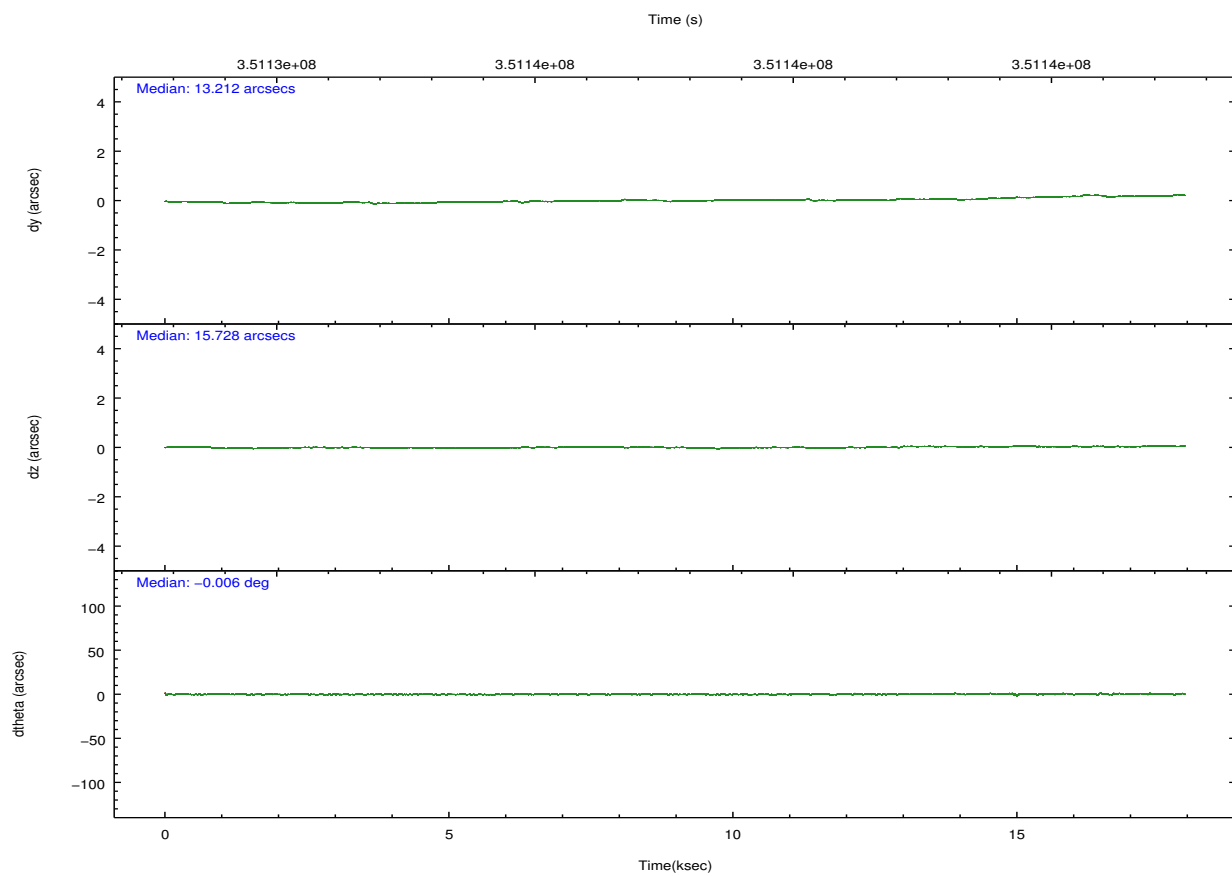
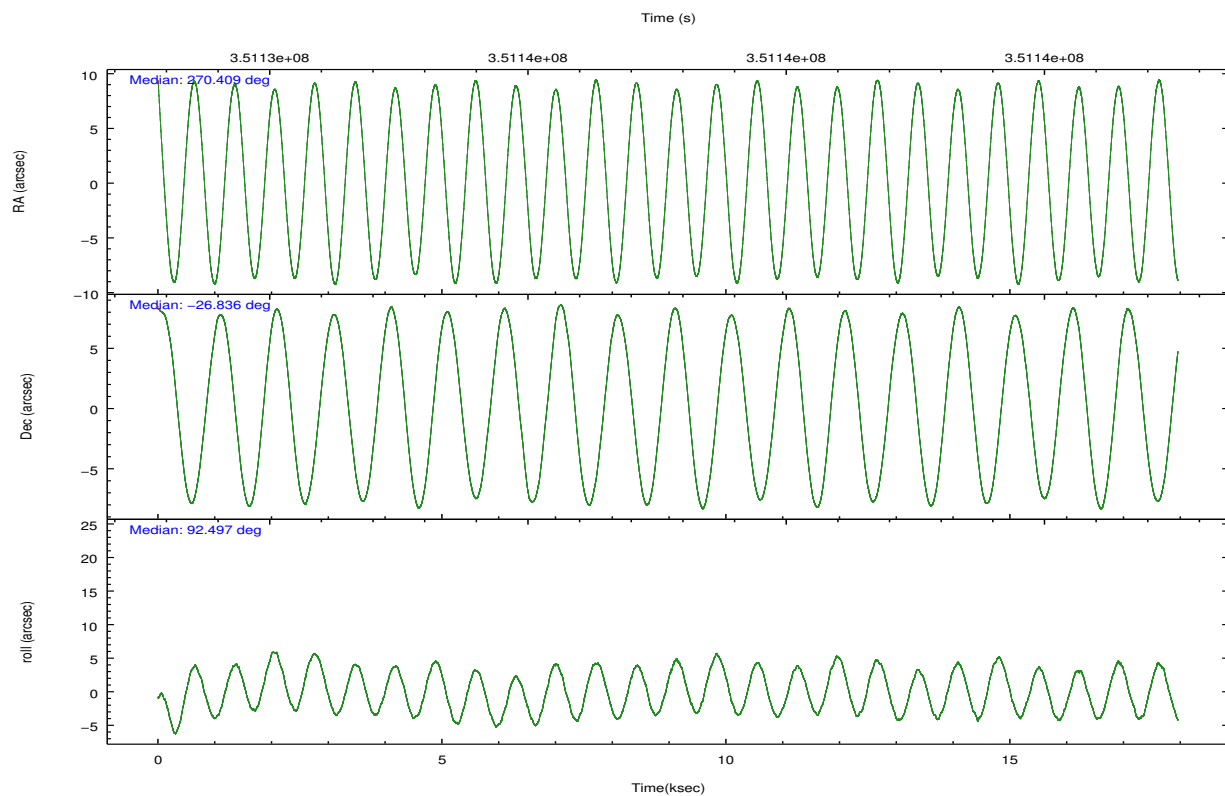
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	157697	142469	214266	151306	170589	189403	grade 0 events	6988	6728	12777	7791	7891	16358
rejected events	140871	126468	104707	132880	90117	139412		4%	4%	5%	5%	4%	8%
rejected %	89%	88%	48%	87%	52%	73%	grade 1 events	97	90	1636	85	220	163
								0%	0%	0%	0%	0%	0%
							grade 2 events	3879	3116	33840	3722	16685	11086
								2%	2%	15%	2%	9%	5%
							grade 3 events	1569	1700	4536	1698	7392	5239
								0%	1%	2%	1%	4%	2%
							grade 4 events	1613	1602	4375	1764	7385	4928
								1%	1%	2%	1%	4%	2%
							grade 5 events	5098	5989	16455	6128	17307	8759
								3%	4%	7%	4%	10%	4%
							grade 6 events	2780	2866	54079	3461	41149	12385
								1%	2%	25%	2%	24%	6%
							grade 7 events	135673	120378	86568	126657	72560	130485
								86%	84%	40%	83%	42%	68%

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	270.425431	270.4086106730153	CCD I2 on	O2	Y
[deg] Pointing Dec	-26.858570	-26.83571548440572	CCD I3 on	O1	Y
[deg] Pointing Roll	92.353811	92.50283400434419	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	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	Y	Y
[s] Observation start time (MET)	351129414.184000	351128164.20693	CCD S5 on	N	N
Observation start date	2009-02-15T23:55:48	2009-02-15T23:36:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	351146694.184000	351146922.22036	On-chip summing requested	N	N
Observation end date	2009-02-16T04:43:48	2009-02-16T04:48:42	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



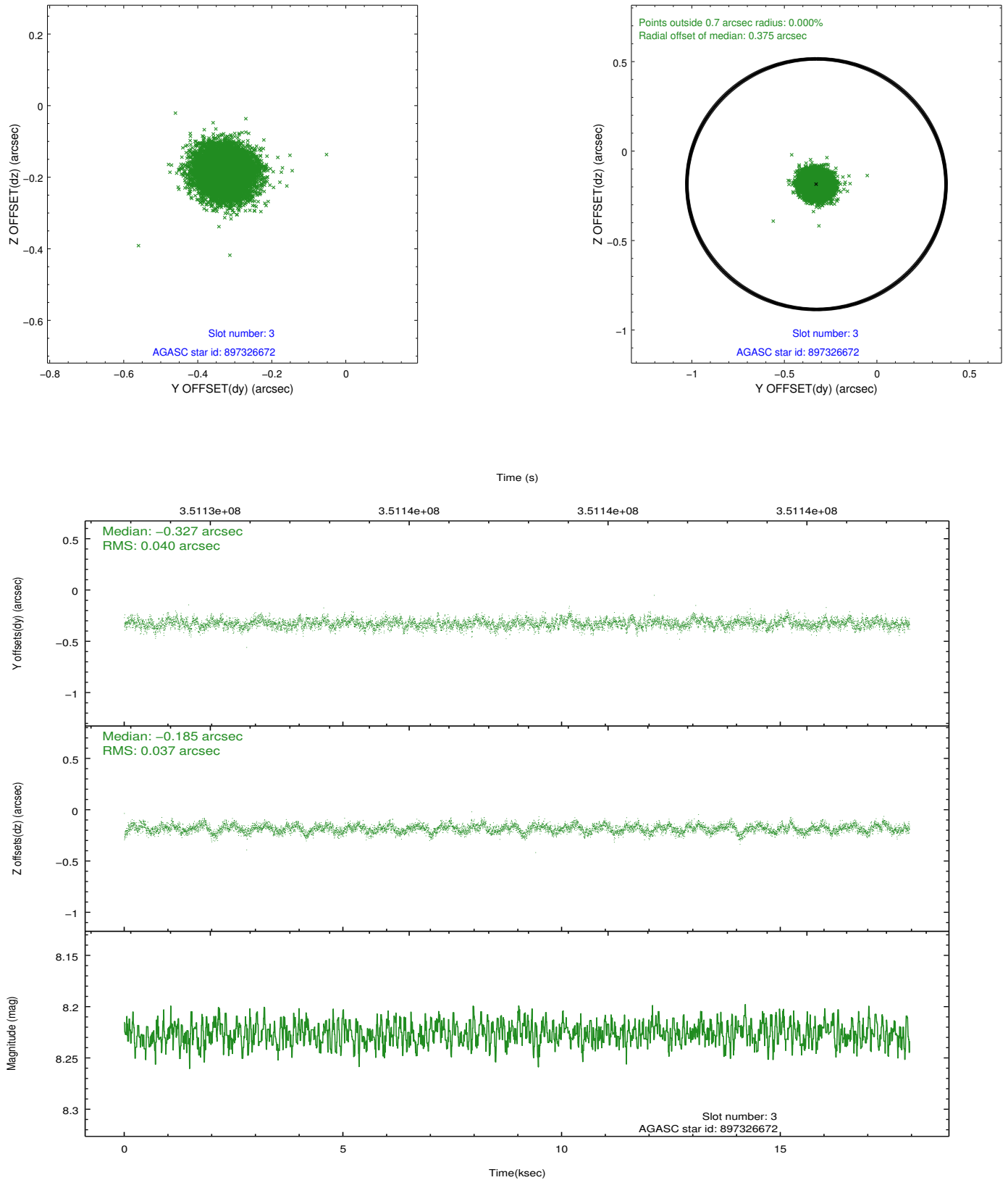


Slot Statistics

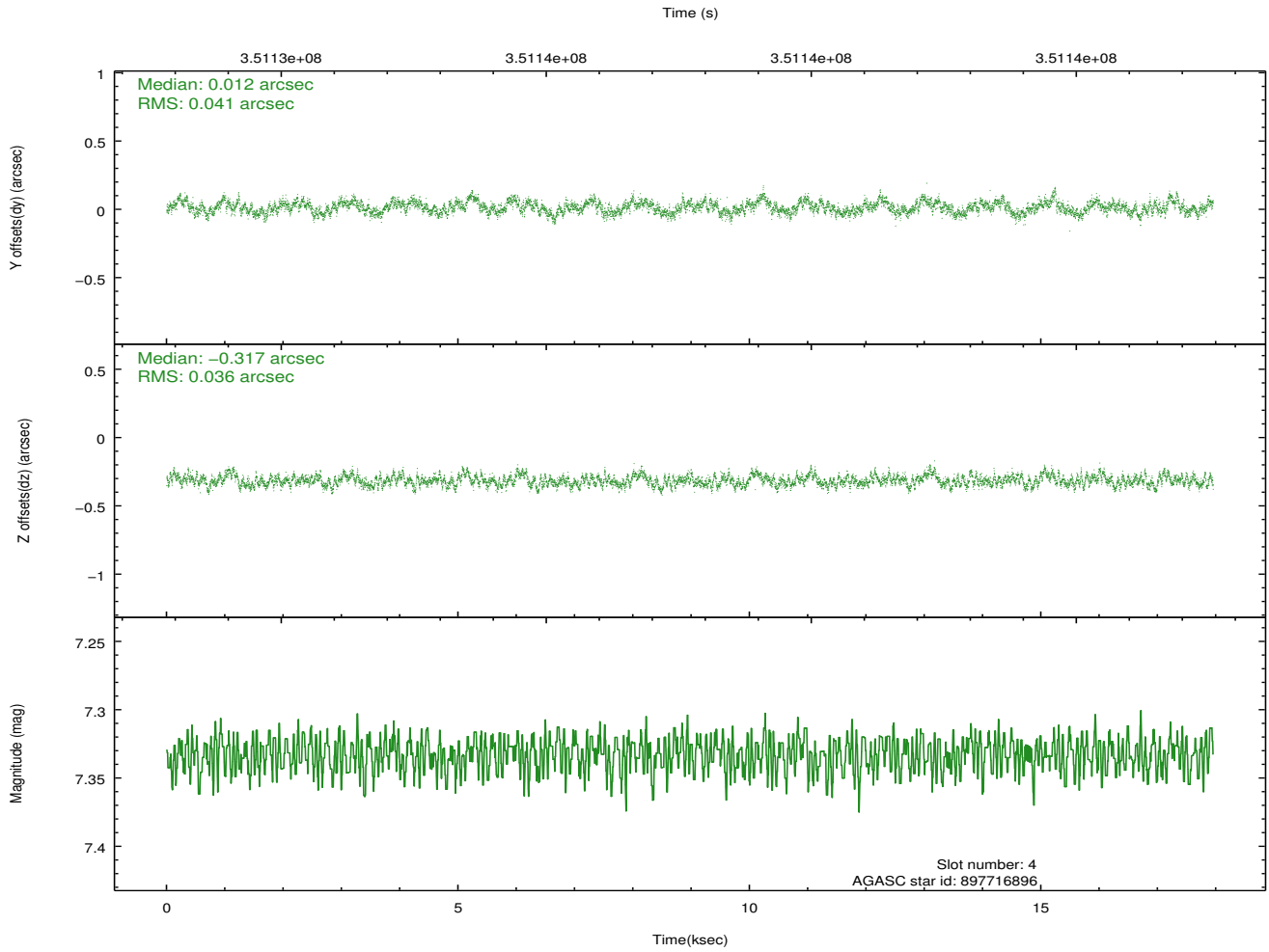
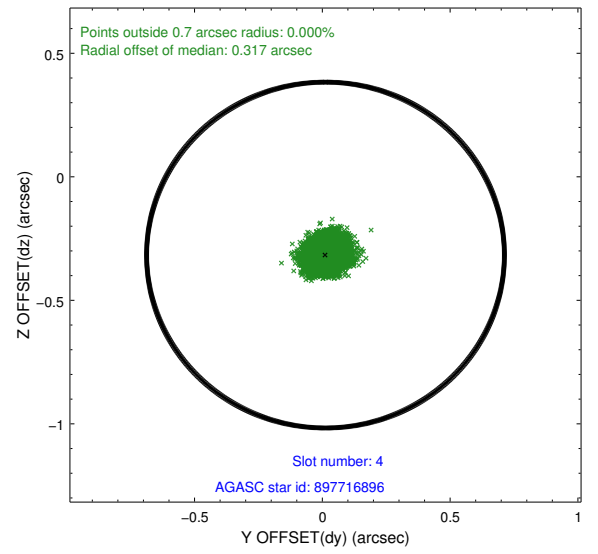
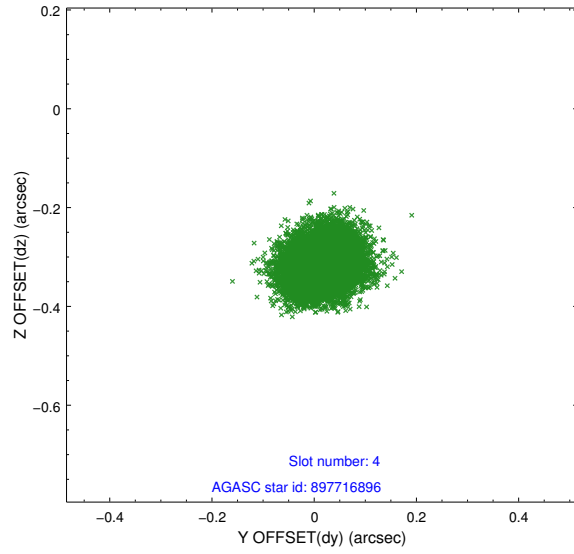
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.96	4380	0.044	-0.065	0.009	0.014	0.000000	0.000000	929.94	-1732.82
1	FID	ACIS-S-4	6.96	4380	0.123	0.029	0.007	0.012	0.000000	0.000000	2147.54	171.20
2	FID	ACIS-S-5	6.99	4380	-0.193	0.049	0.007	0.013	0.000000	0.000000	-1818.89	165.05
3	GUIDE	897326672	8.23	8756	-0.327	-0.185	0.058	0.093	270.237029	-26.222744	2311.43	514.22
4	GUIDE	897716896	7.33	8755	0.012	-0.317	0.059	0.091	269.902616	-27.069631	-693.50	1705.75
5	GUIDE	897859912	7.74	8756	-0.128	0.107	0.077	0.122	270.849161	-26.319822	1879.63	-1445.08
6	GUIDE	897858040	8.83	8754	0.295	0.215	0.076	0.122	270.624628	-27.412630	-2018.80	-554.12
7	GUIDE	897852344	7.48	8757	0.144	0.182	0.067	0.104	271.125897	-26.849416	-65.31	-2248.72

2.4 Star Slots

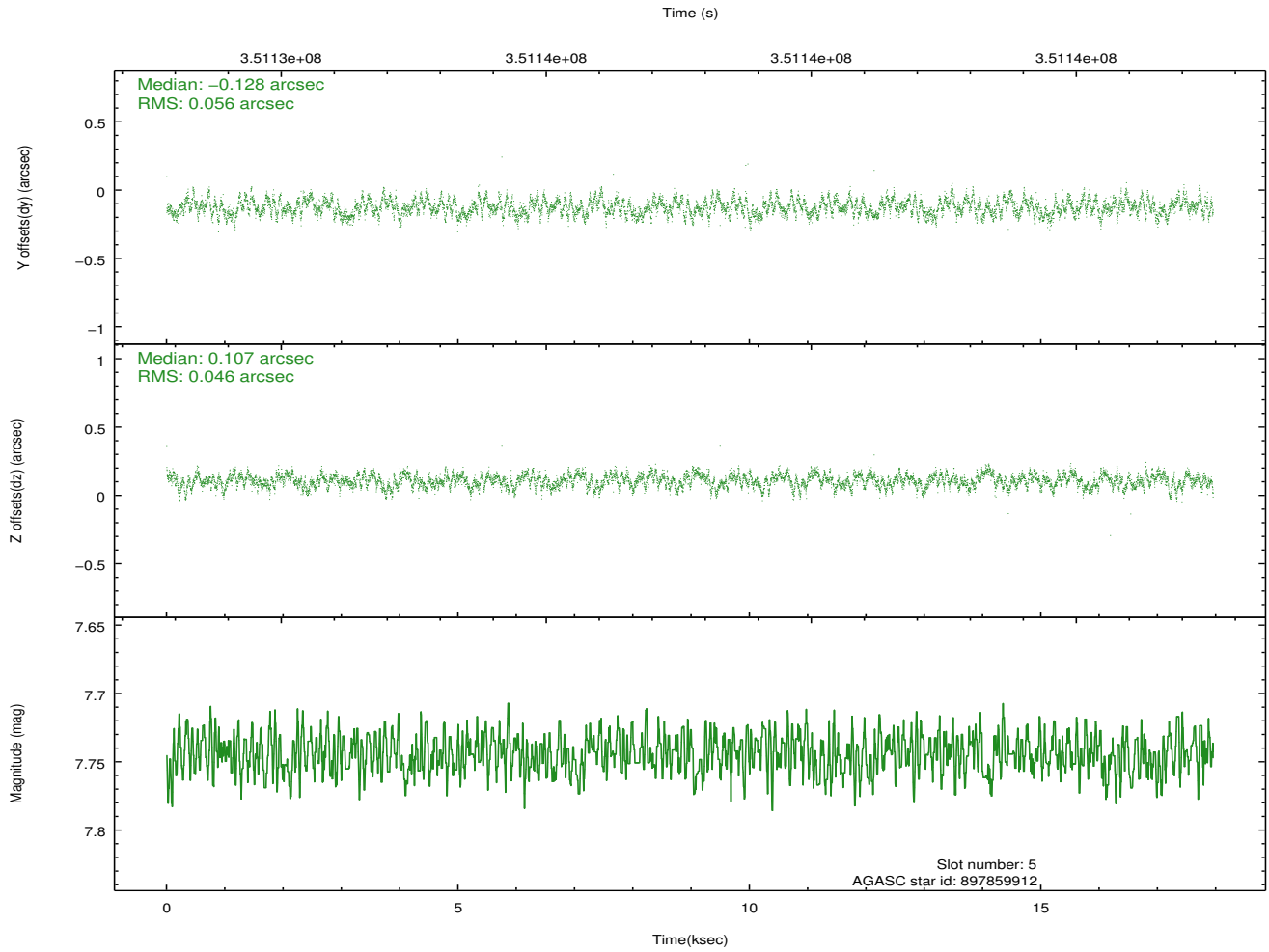
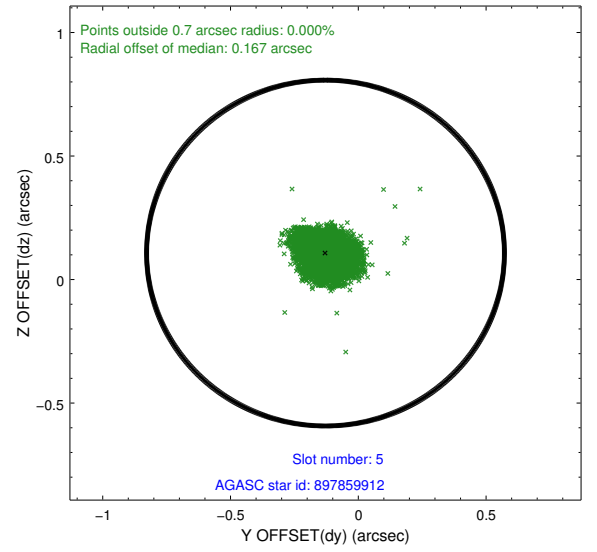
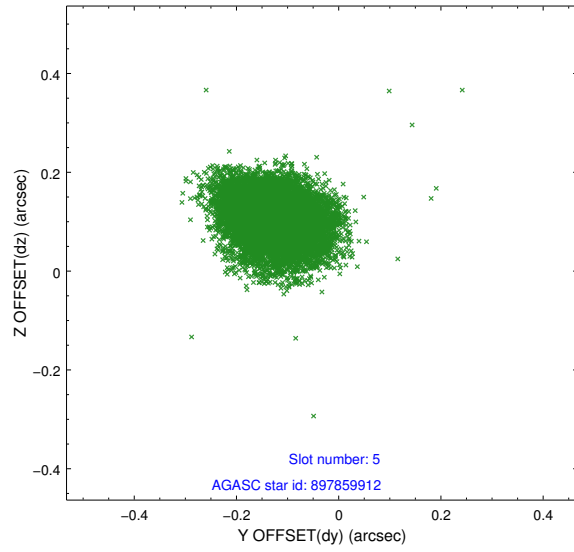
2.4.1 Slot 3



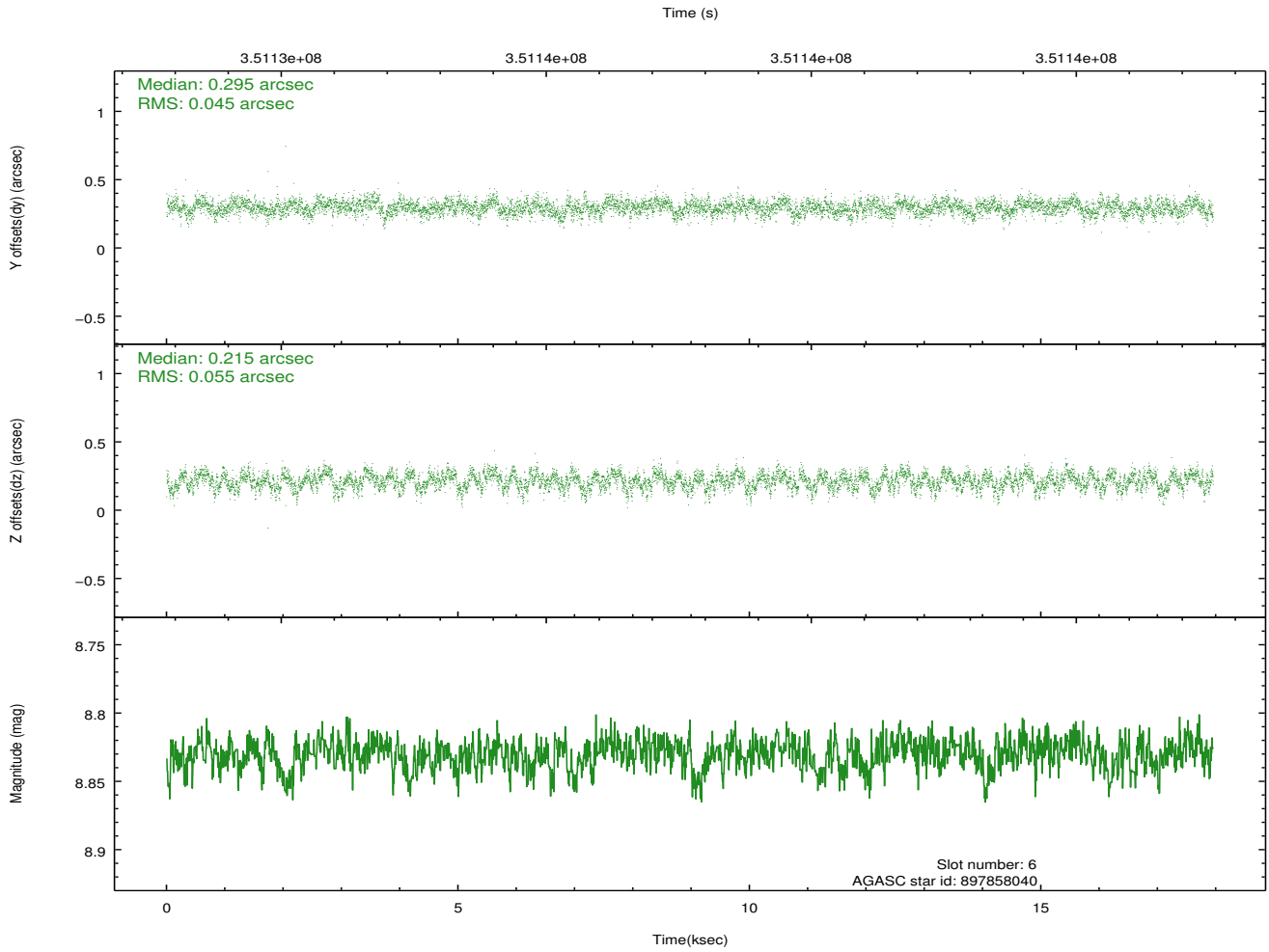
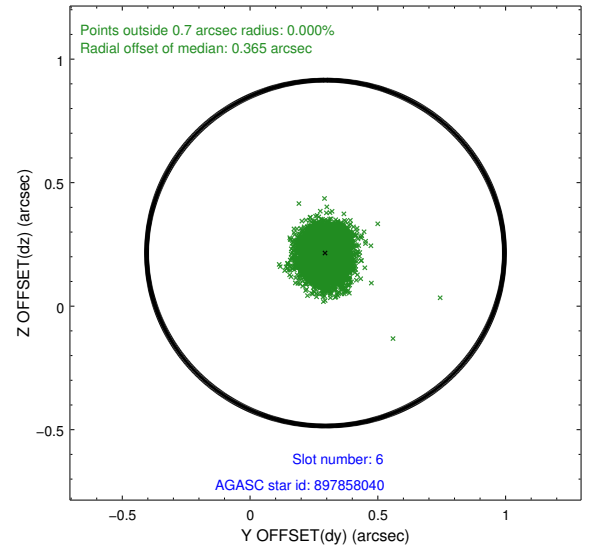
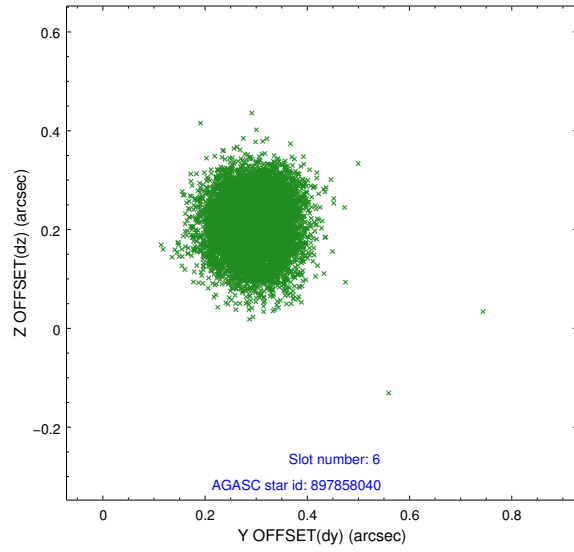
2.4.2 Slot 4



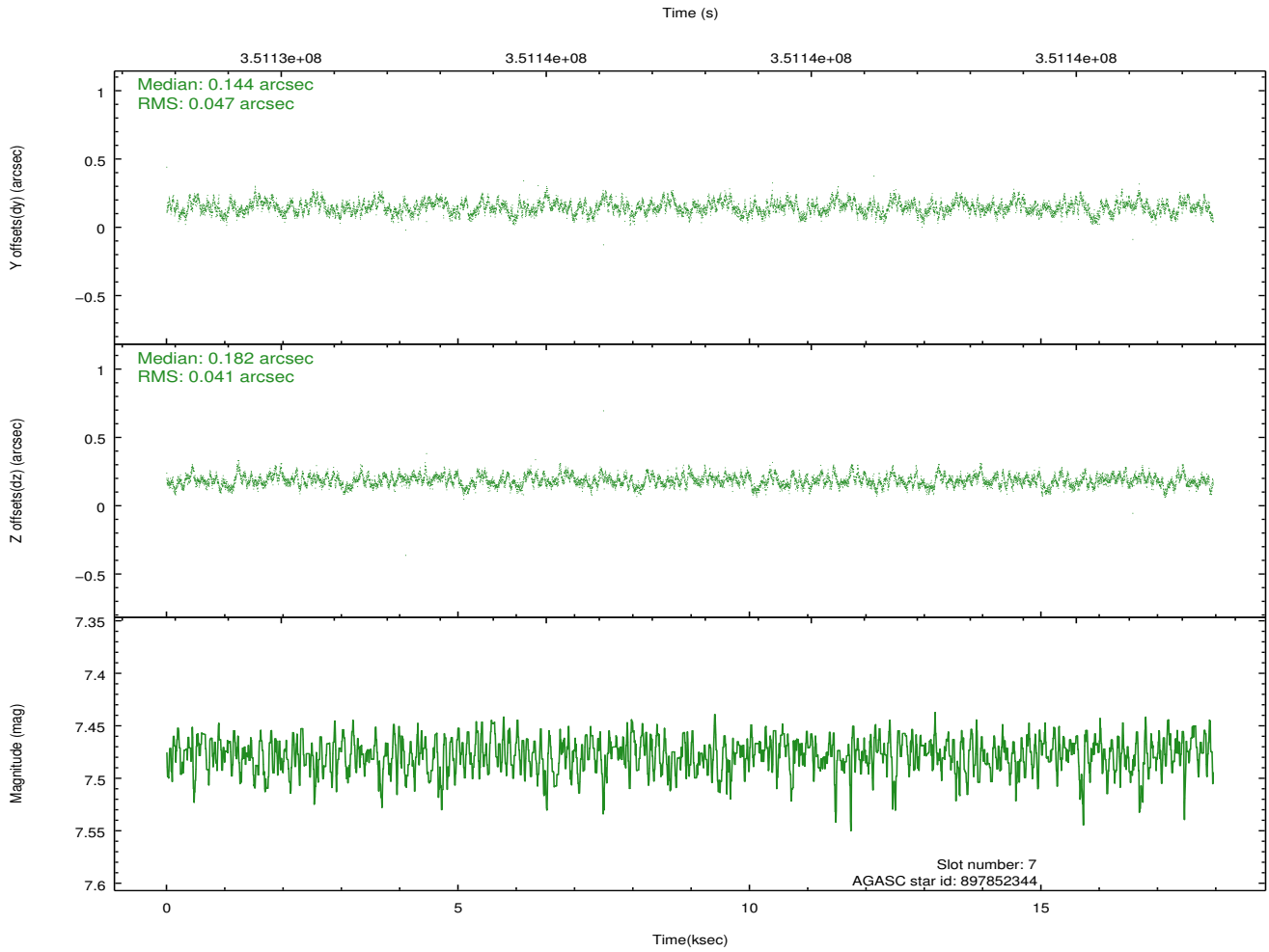
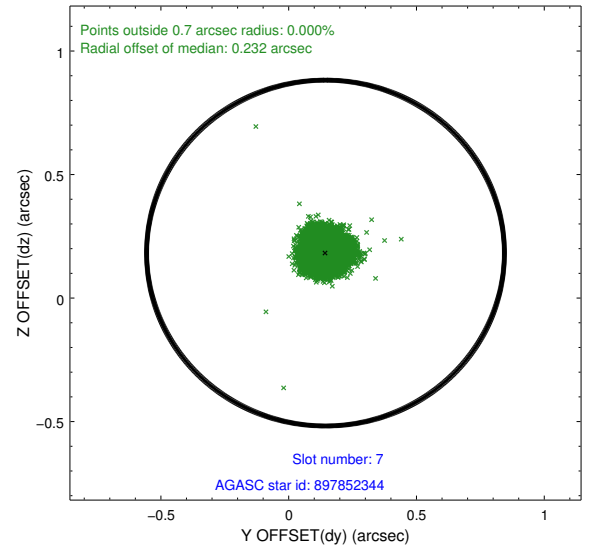
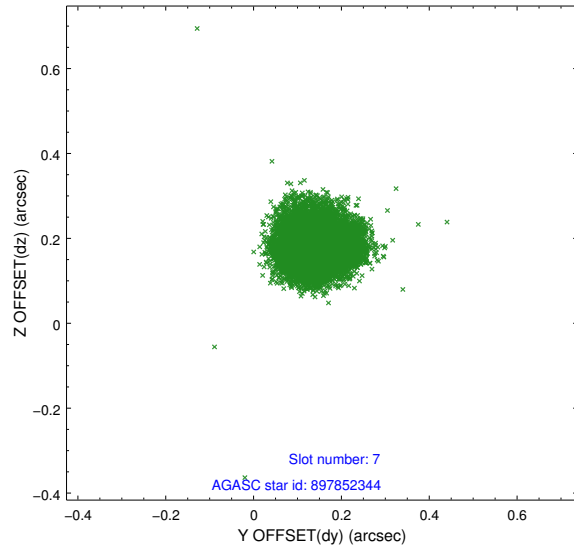
2.4.3 Slot 5



2.4.4 Slot 6

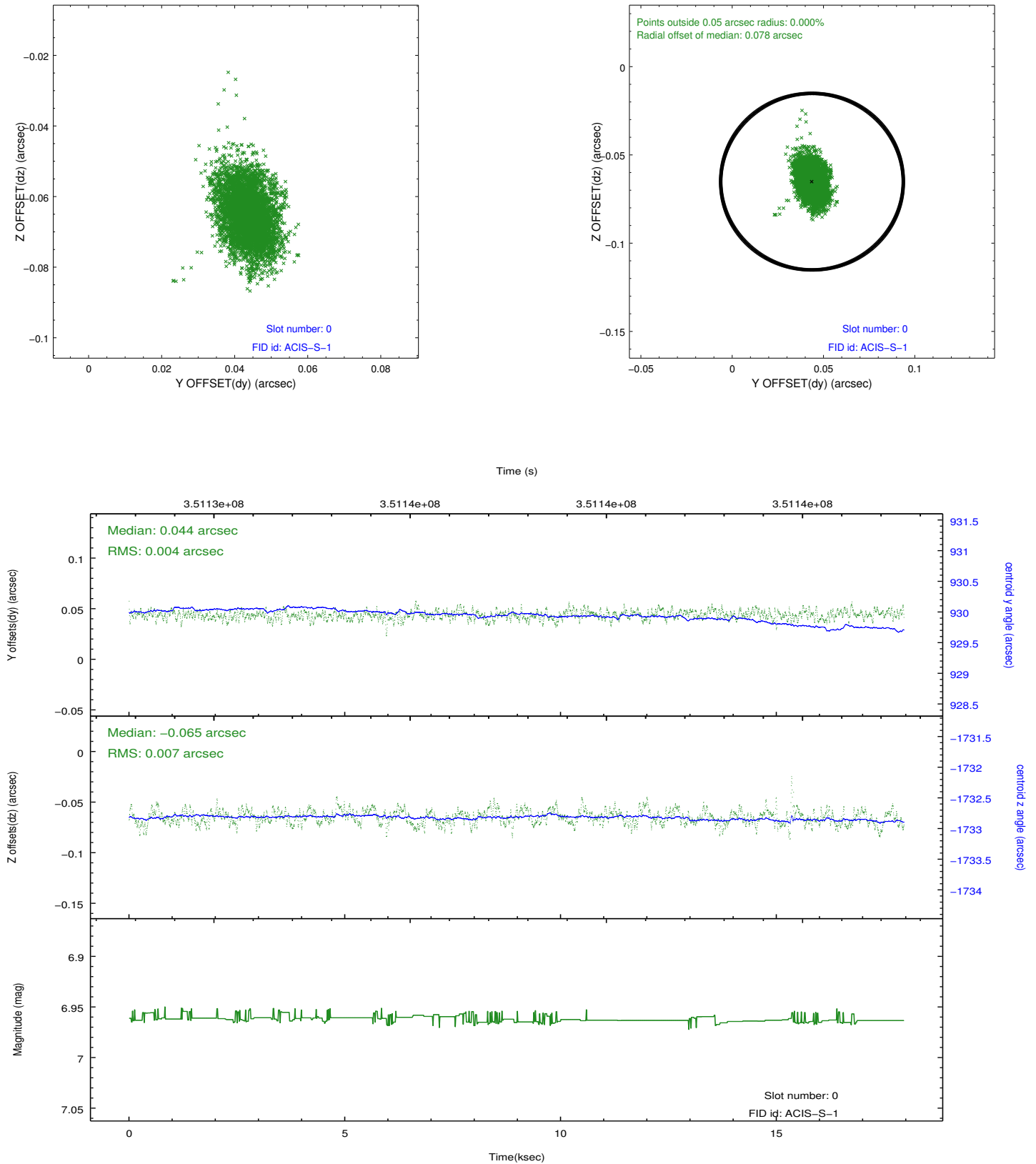


2.4.5 Slot 7

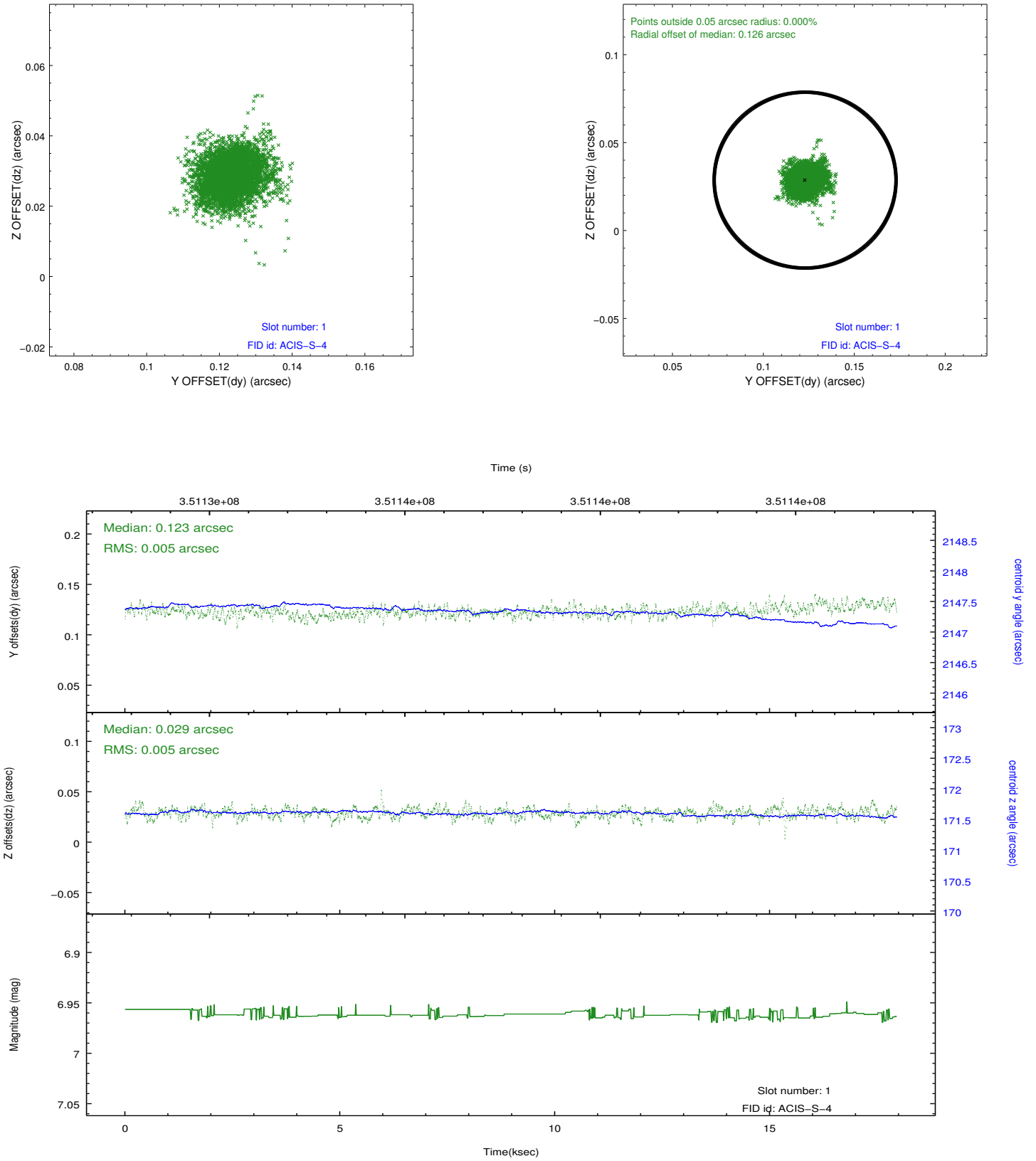


2.5 FID Slots

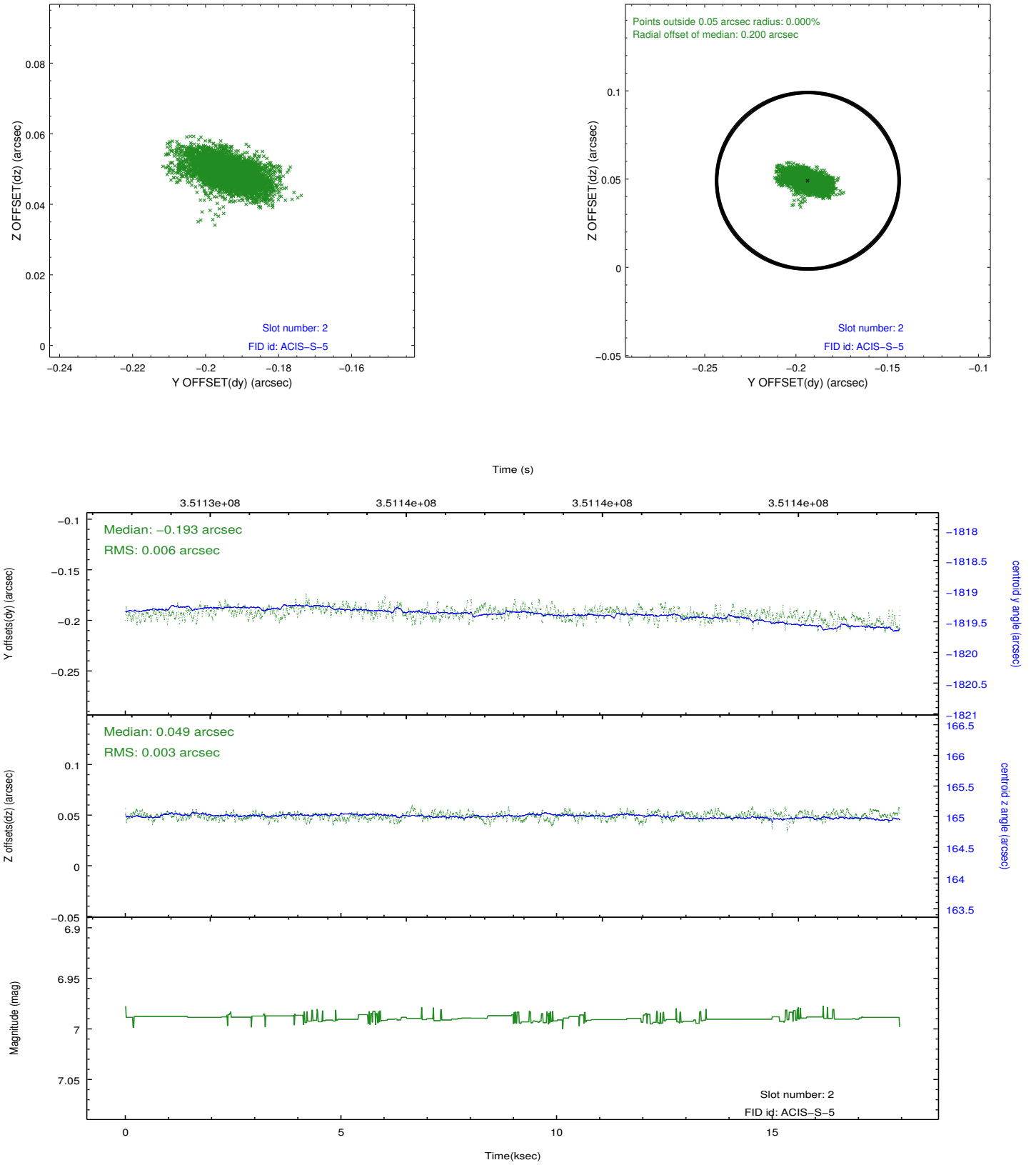
2.5.1 Slot 0



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)	2012.06.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.321599935472

A.2 Comments