

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8958 - L2 Version 2
Chandra X-Ray Center

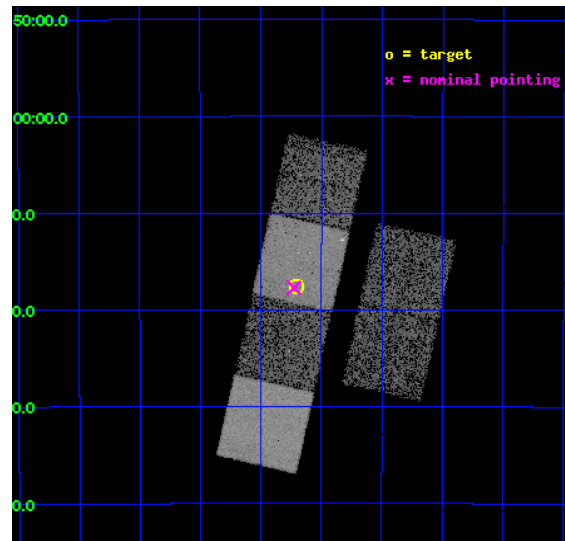
L2 Processing Date : May 20 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

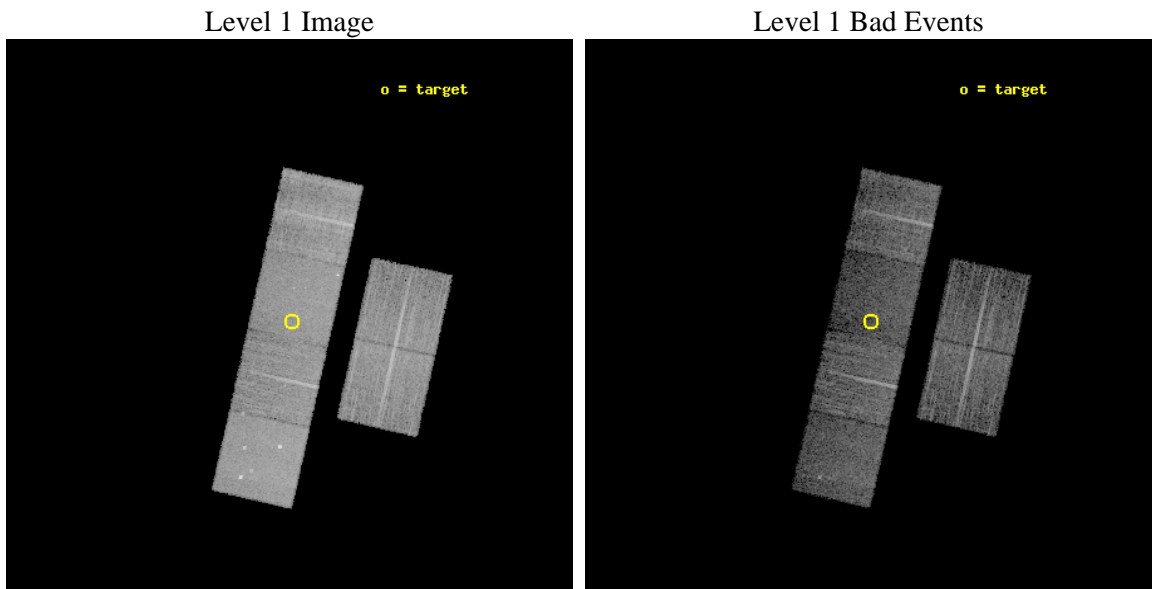
seq_num	300214	Sequence number
obs_id	8958	Observation id
title	A Chandra Legacy Survey of Dynamically Active Globular Clusters	Pr
observer	Prof. David Pooley	Principal investigator
object	NGC 6681	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	280.802917	Observer's specified target RA [deg]
dec_targ	-32.291944	Observer's specified target Dec [deg]
ra_nom	280.80690402366	Nominal RA [deg]
dec_nom	-32.295400449189	Nominal Dec [deg]
roll_nom	282.65255872332	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7353.5999726653	Sum of GTIs [s]
livetime	7260.4842620051	Livetime [s]
ontime2	7353.5999726653	Sum of GTIs [s]
ontime3	7353.5999726653	Sum of GTIs [s]
ontime5	7353.5999726653	Sum of GTIs [s]
ontime6	7350.3589923382	Sum of GTIs [s]
ontime7	7353.5999726653	Sum of GTIs [s]
ontime8	7353.5999726653	Sum of GTIs [s]
l2events	93699	Number of level 2 events



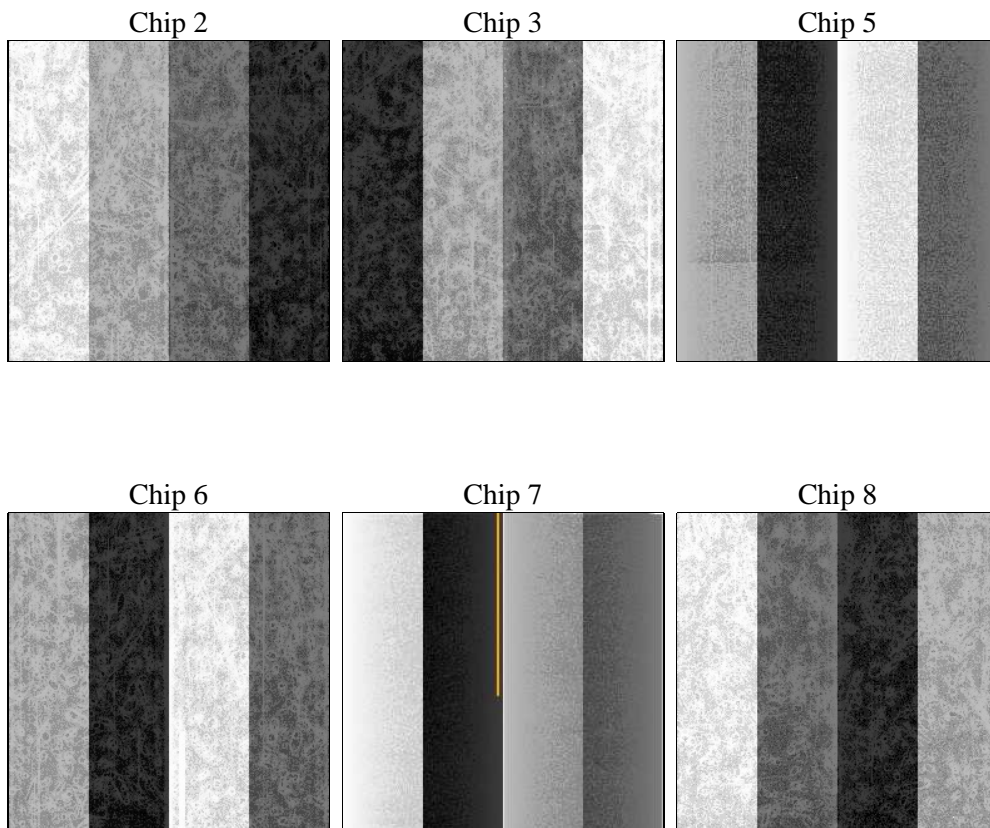
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7200.820000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	7353.5999726653	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	7353.5999726653	Sum of GTIs [s]
date	2012-05-20T08:43:45	Date and time of file creation	ontime3	7353.5999726653	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	7353.5999726653	Sum of GTIs [s]
			ontime6	7350.3589923382	Sum of GTIs [s]
			ontime7	7353.5999726653	Sum of GTIs [s]
			ontime8	7353.5999726653	Sum of GTIs [s]
			l1events	415219	Number of level 1 events

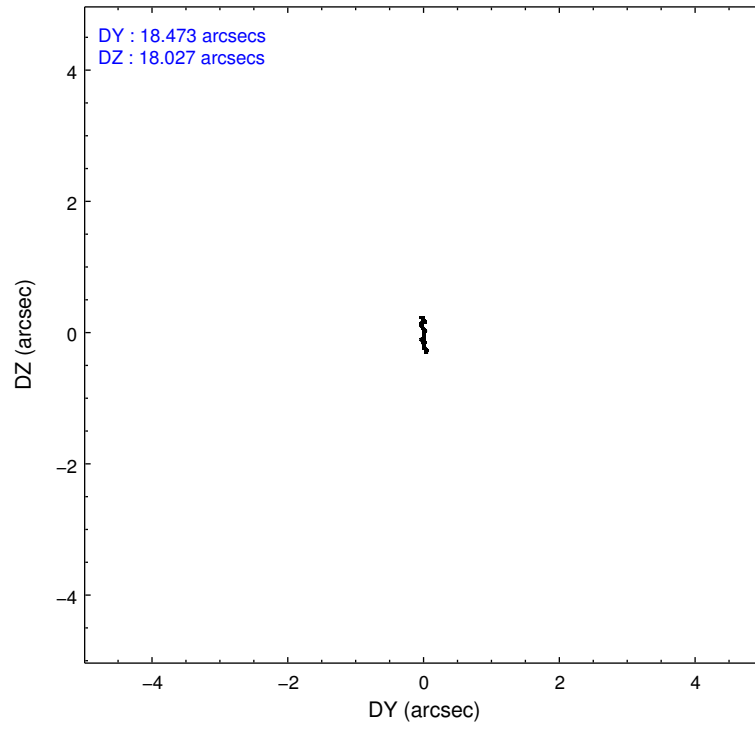
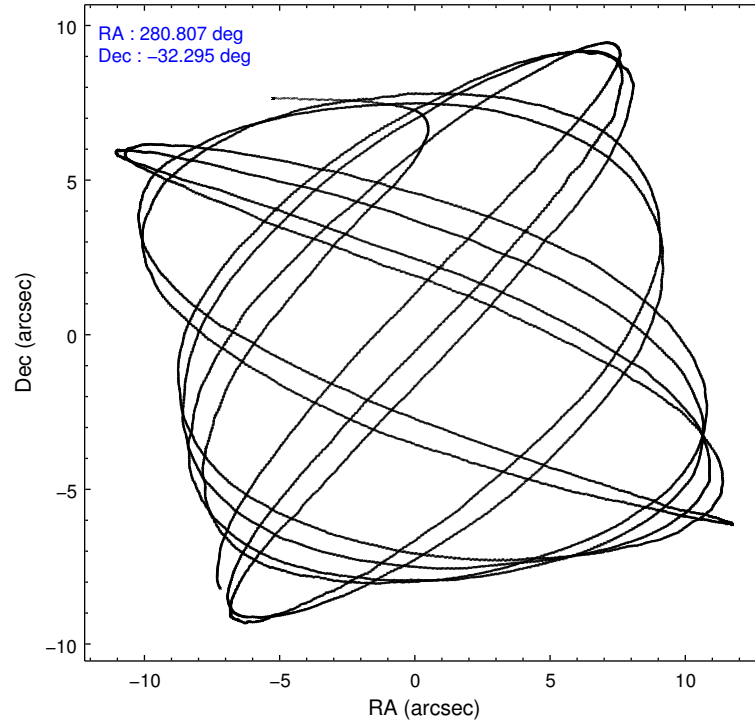
2.1.4 Events

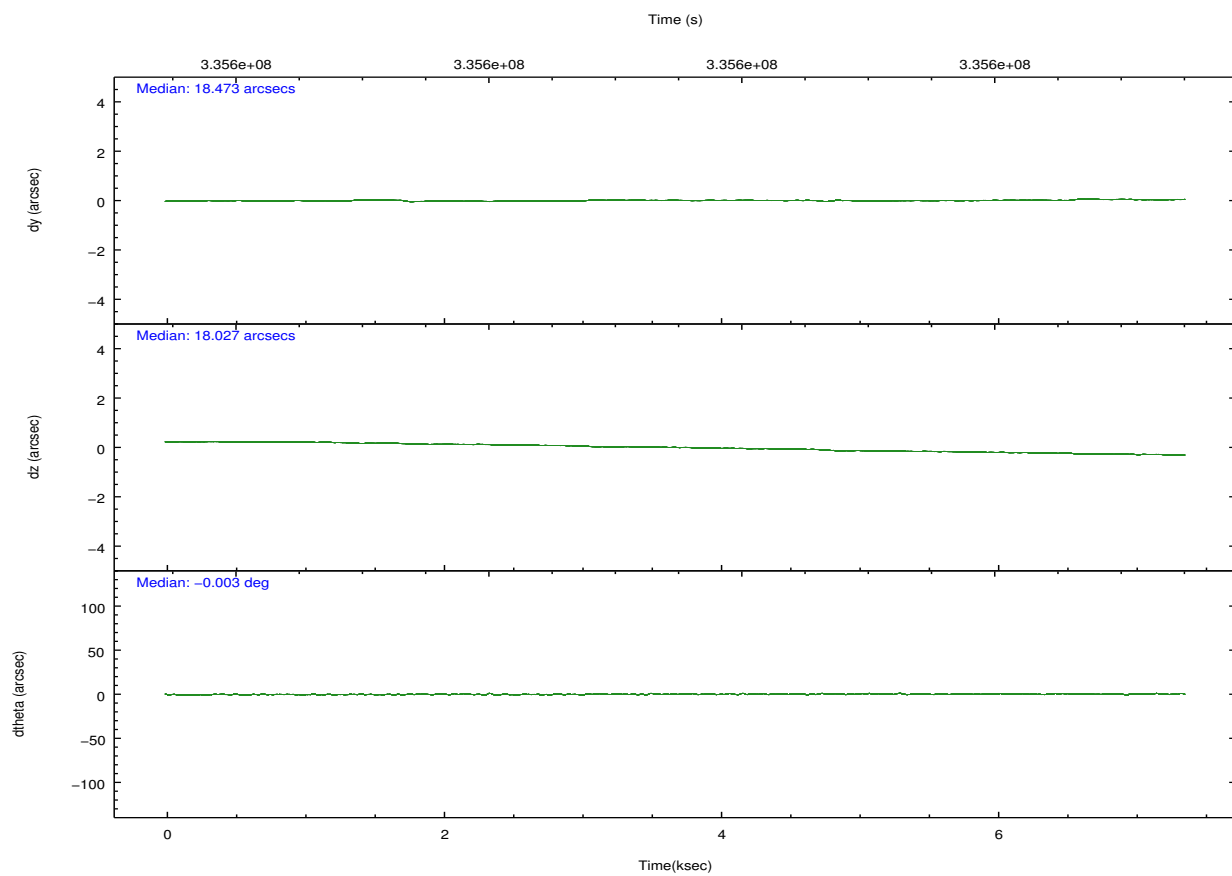
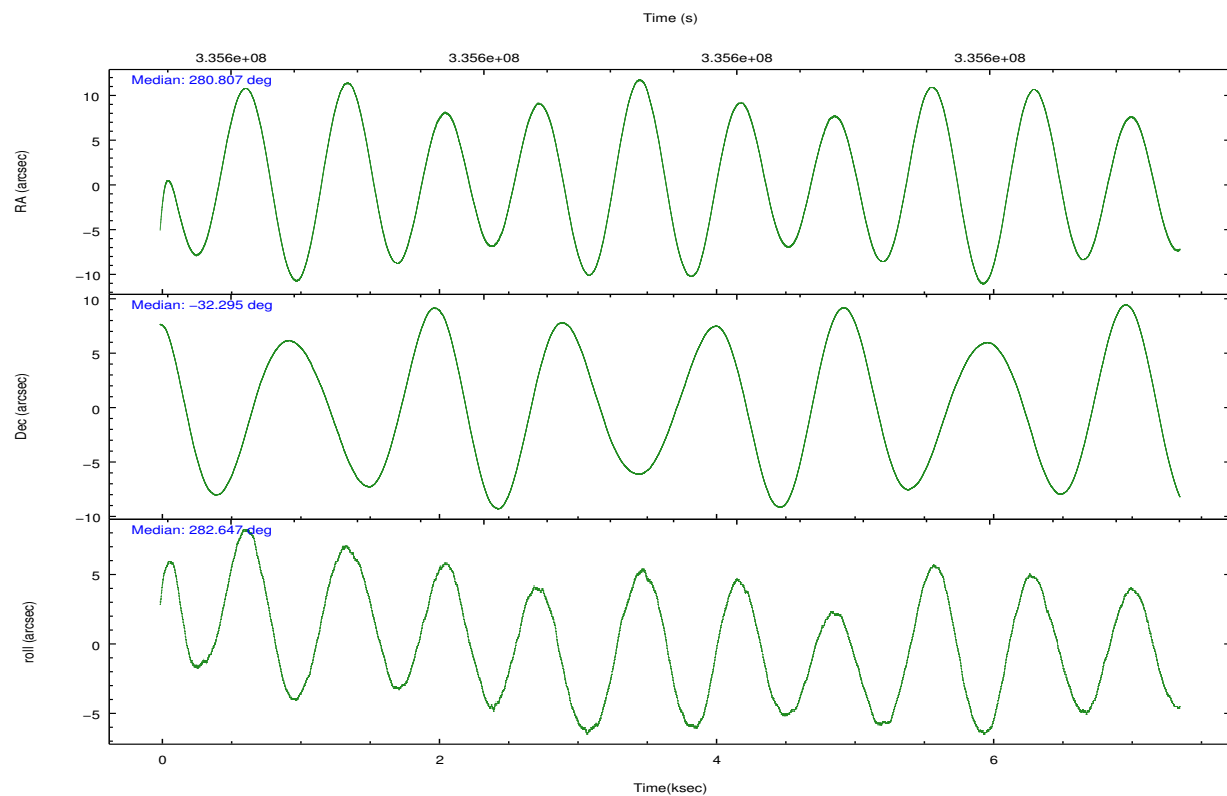
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	63383	56926	86900	62832	69792	75386	grade 0 events	2448	2342	5531	2739	3689	5890
rejected events	57376	51063	43348	55979	37507	56362		3%	4%	6%	4%	5%	7%
rejected %	90%	89%	49%	89%	53%	74%	grade 1 events	38	32	144	40	93	64
								0%	0%	0%	0%	0%	0%
							grade 2 events	1473	1211	13344	1513	6797	4292
								2%	2%	15%	2%	9%	5%
							grade 3 events	629	605	1907	712	3060	2104
								0%	1%	2%	1%	4%	2%
							grade 4 events	606	659	1731	661	3073	2009
								0%	1%	1%	1%	4%	2%
							grade 5 events	2007	2447	6688	2549	7132	3571
								3%	4%	7%	4%	10%	4%
							grade 6 events	1019	1183	22222	1397	16545	5191
								1%	2%	25%	2%	23%	6%
							grade 7 events	55163	48447	35333	53221	29403	52265
								87%	85%	40%	84%	42%	69%

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	280.784687	280.8069040236563	CCD I2 on	O1	Y
[deg] Pointing Dec	-32.275553	-32.29540044918886	CCD I3 on	O2	Y
[deg] Pointing Roll	282.484058	282.6525587233164	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	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	Y	Y
[s] Observation start time (MET)	335597936.184000	335596777.14045	CCD S5 on	N	N
Observation start date	2008-08-20T05:37:51	2008-08-20T05:19:37	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	335605136.184000	335605363.05337	On-chip summing requested	N	N
Observation end date	2008-08-20T07:37:51	2008-08-20T07:42:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



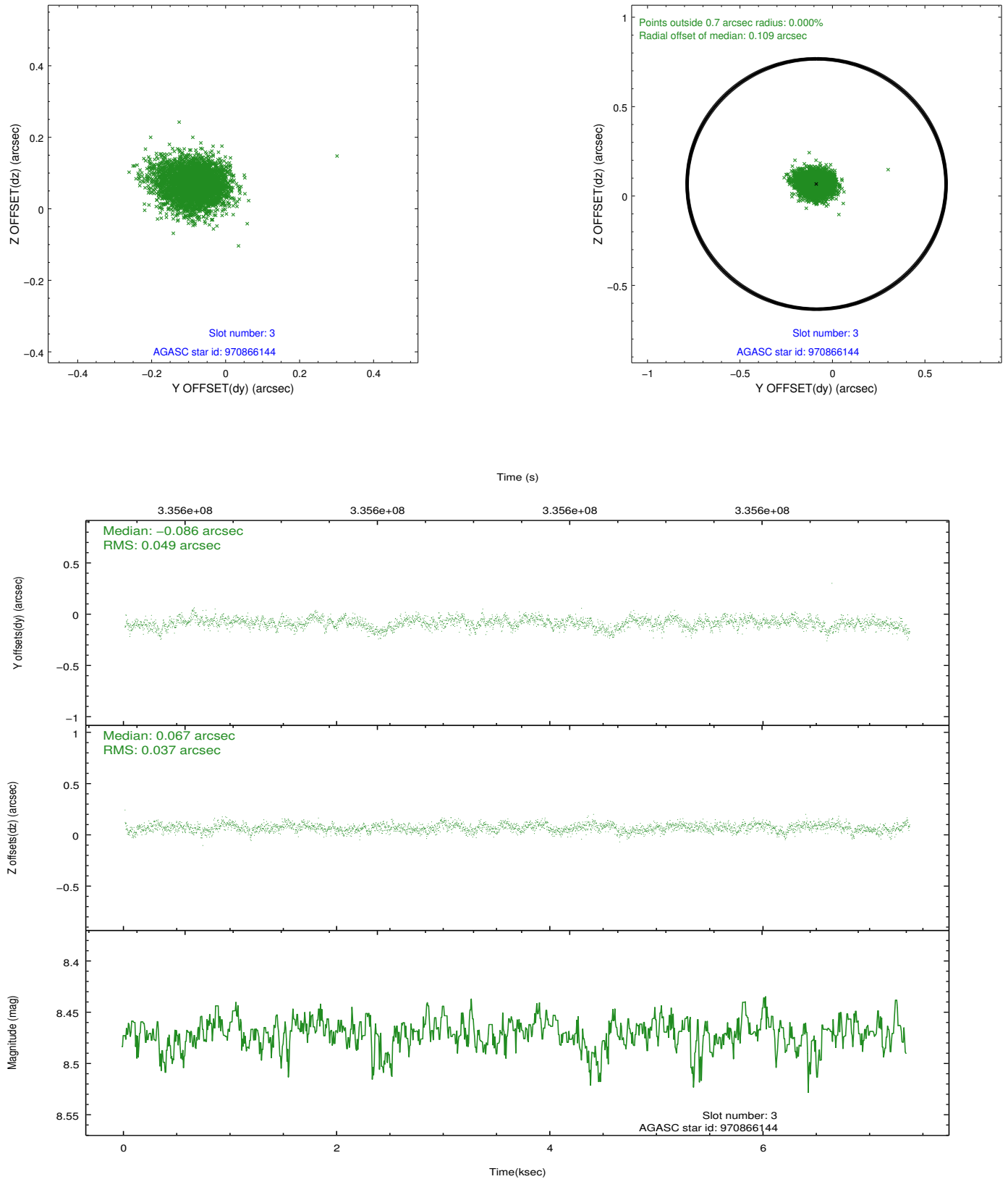


Slot Statistics

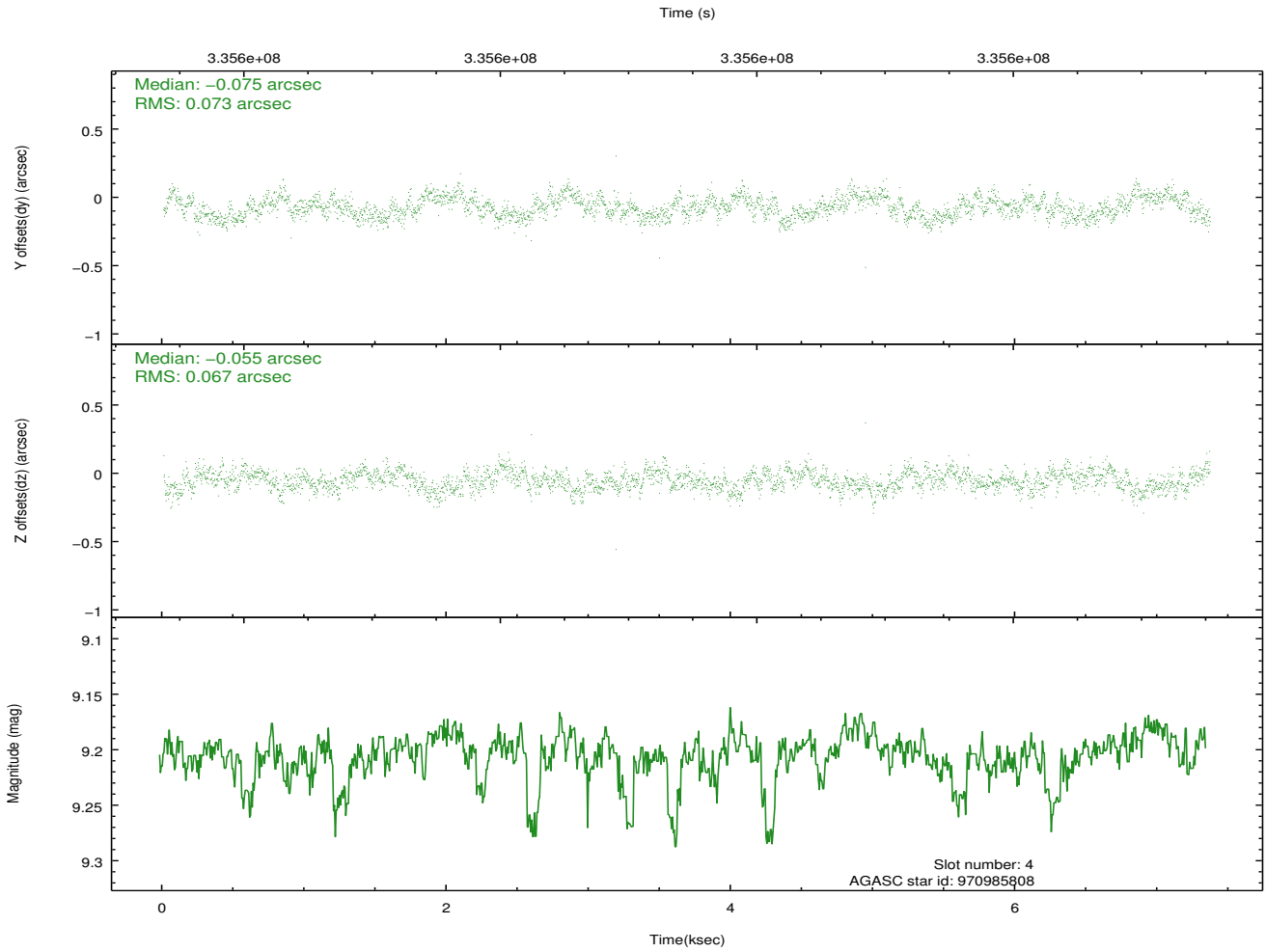
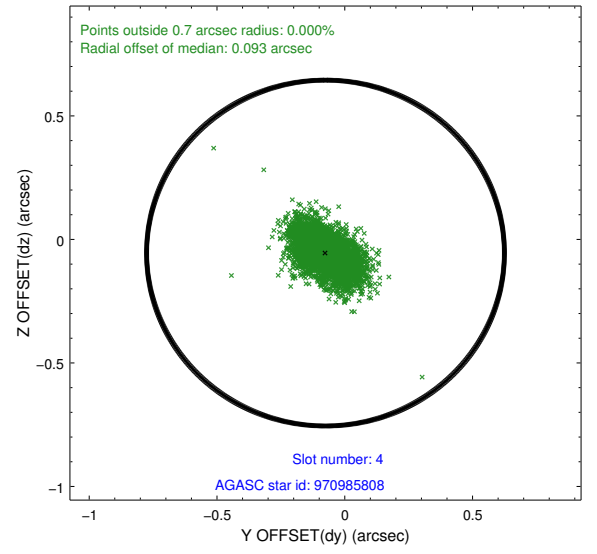
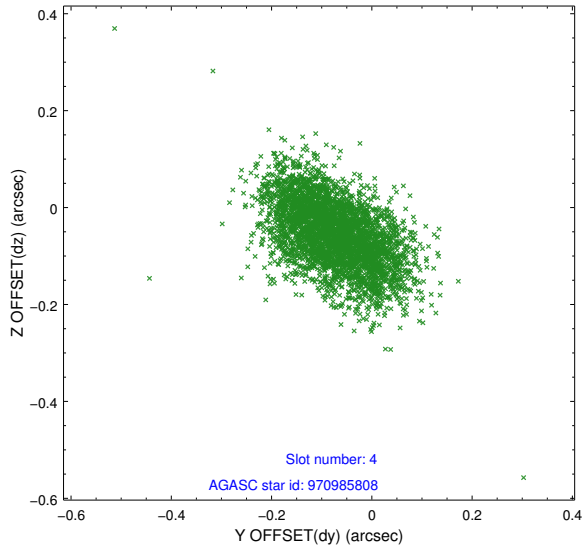
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.92	1796	-0.066	-0.037	0.007	0.013	0.000000	0.000000	-771.65	-1739.44
1	FID	ACIS-S-4	7.00	1796	0.183	0.042	0.006	0.012	0.000000	0.000000	2141.57	168.24
2	FID	ACIS-S-5	7.03	1796	-0.148	0.004	0.007	0.012	0.000000	0.000000	-1823.53	162.86
3	GUIDE	970866144	8.47	3592	-0.086	0.067	0.065	0.106	280.819276	-31.637118	-2220.76	600.59
4	GUIDE	970985808	9.20	3585	-0.075	-0.055	0.104	0.169	281.377786	-31.650188	-1800.91	2260.51
5	GUIDE	971380064	9.05	3588	0.029	-0.016	0.097	0.151	281.035981	-32.459850	813.57	602.69
6	GUIDE	971415512	9.20	3590	0.032	0.071	0.093	0.152	280.210033	-32.012446	-1298.66	-1508.56
7	GUIDE	971376128	9.21	3582	0.096	-0.070	0.110	0.172	280.963448	-32.481893	843.55	369.31

2.4 Star Slots

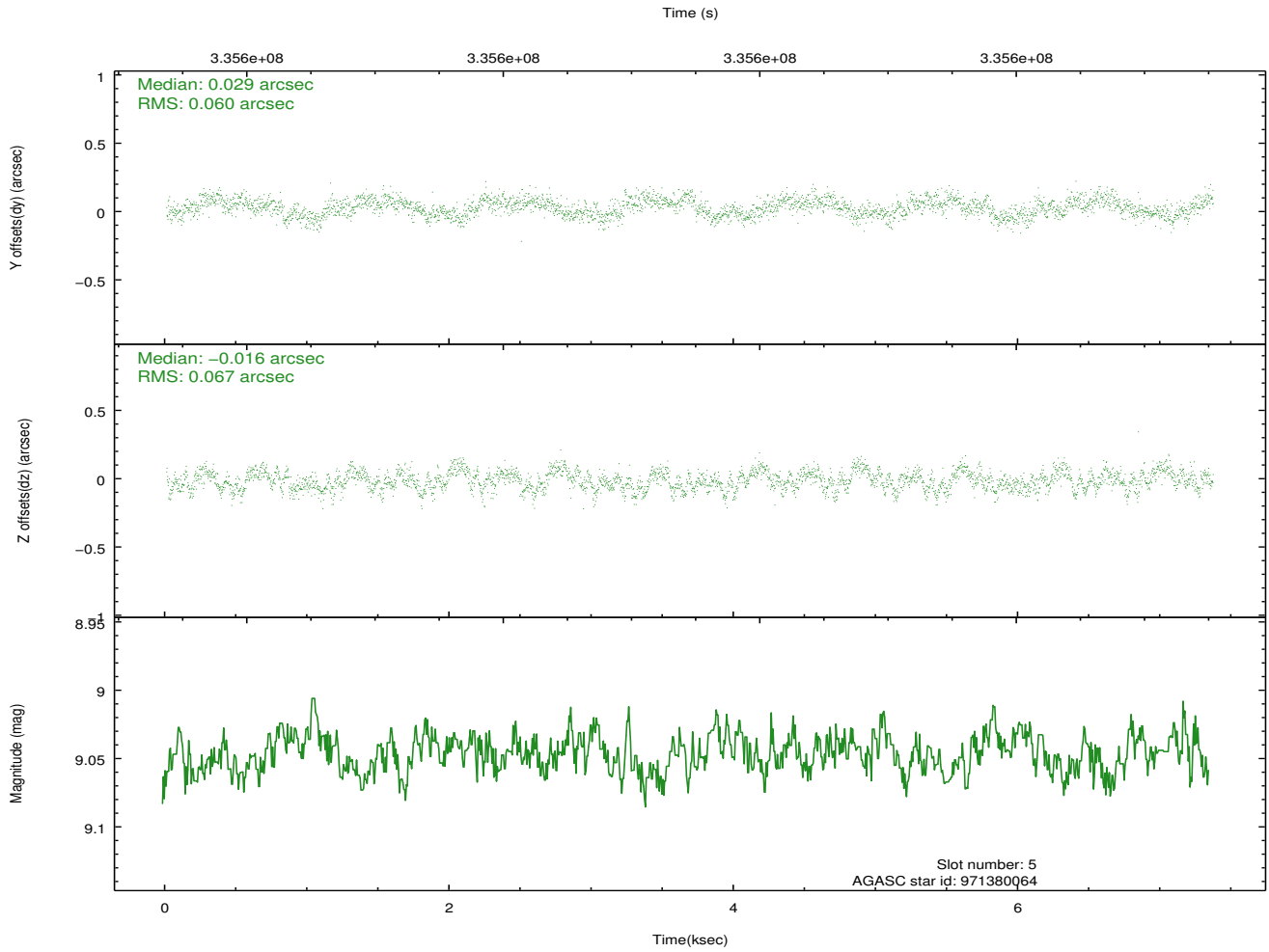
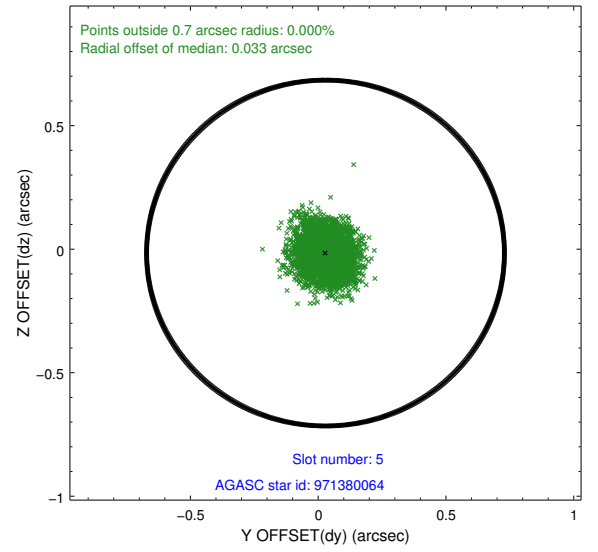
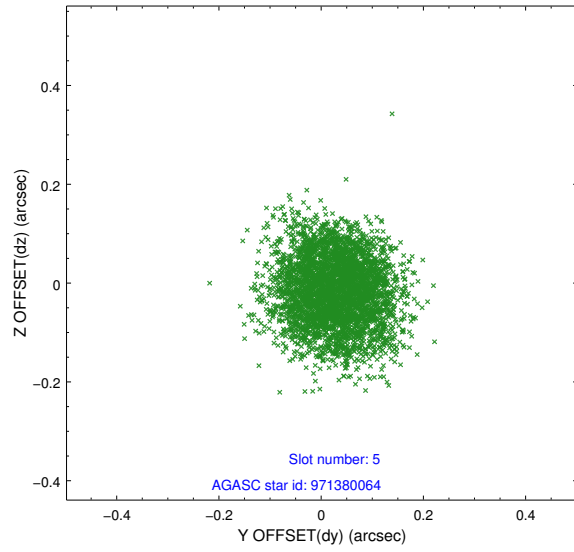
2.4.1 Slot 3



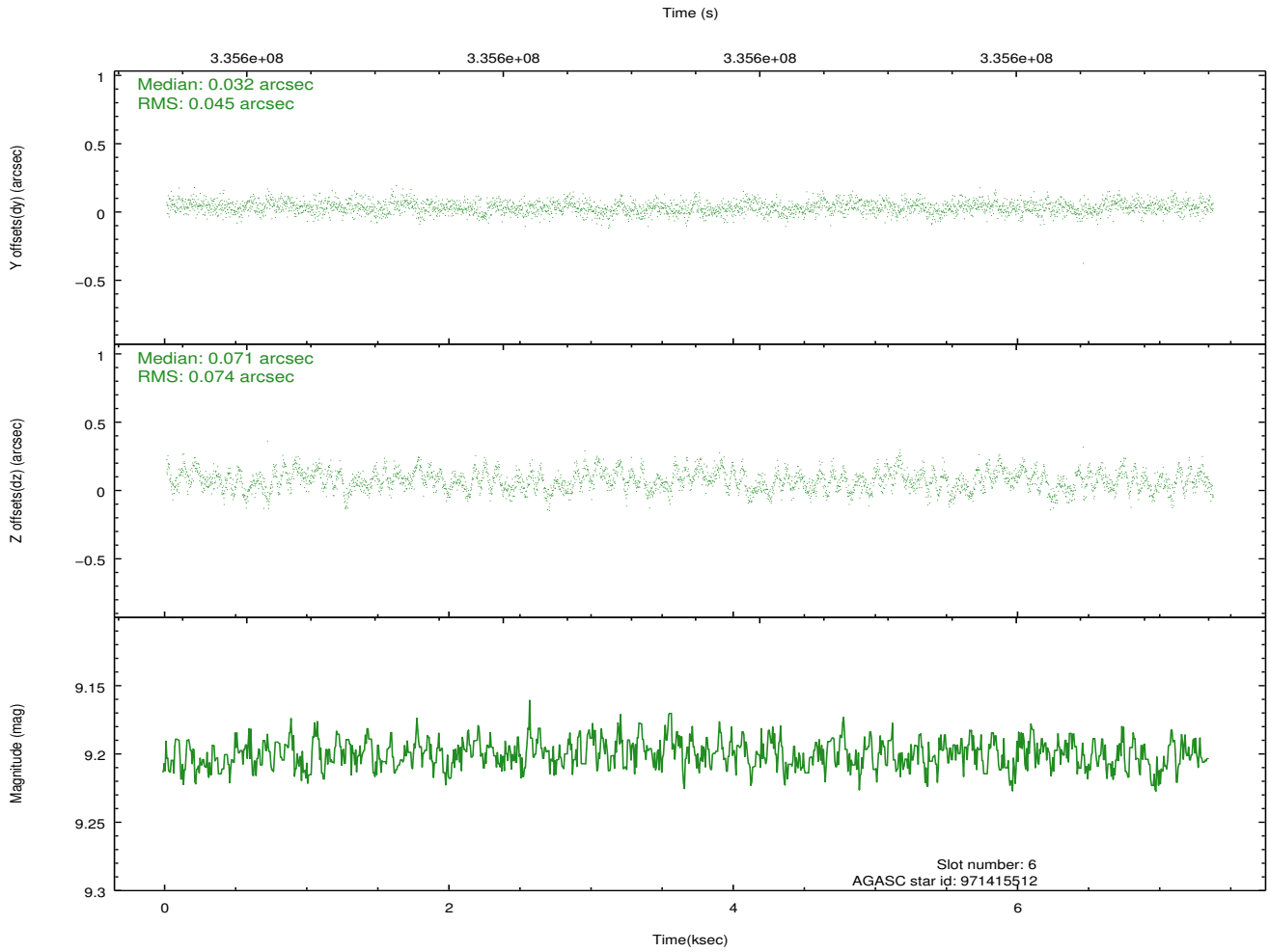
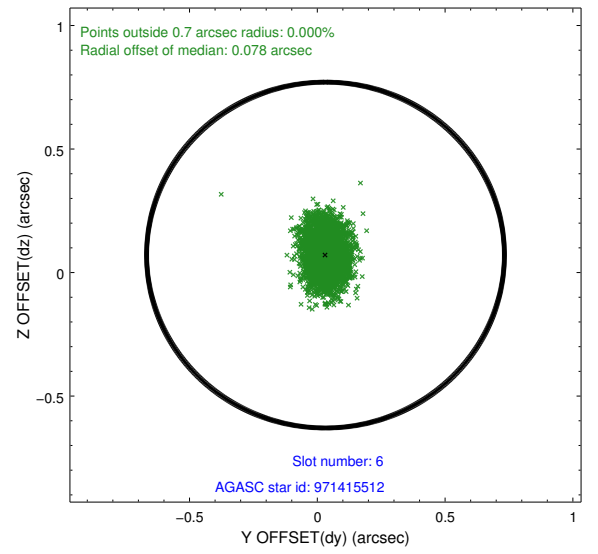
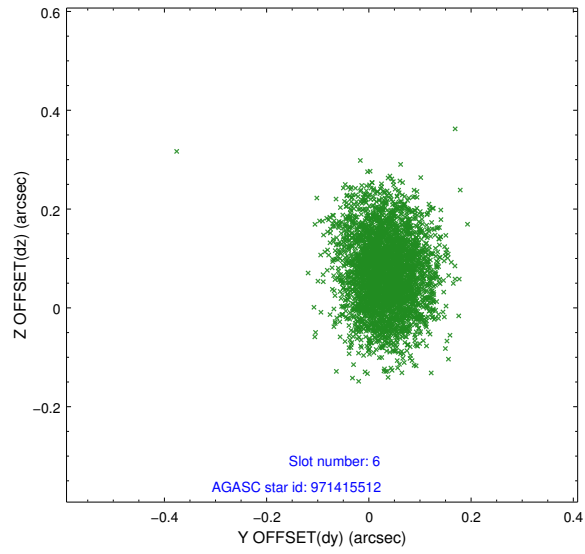
2.4.2 Slot 4



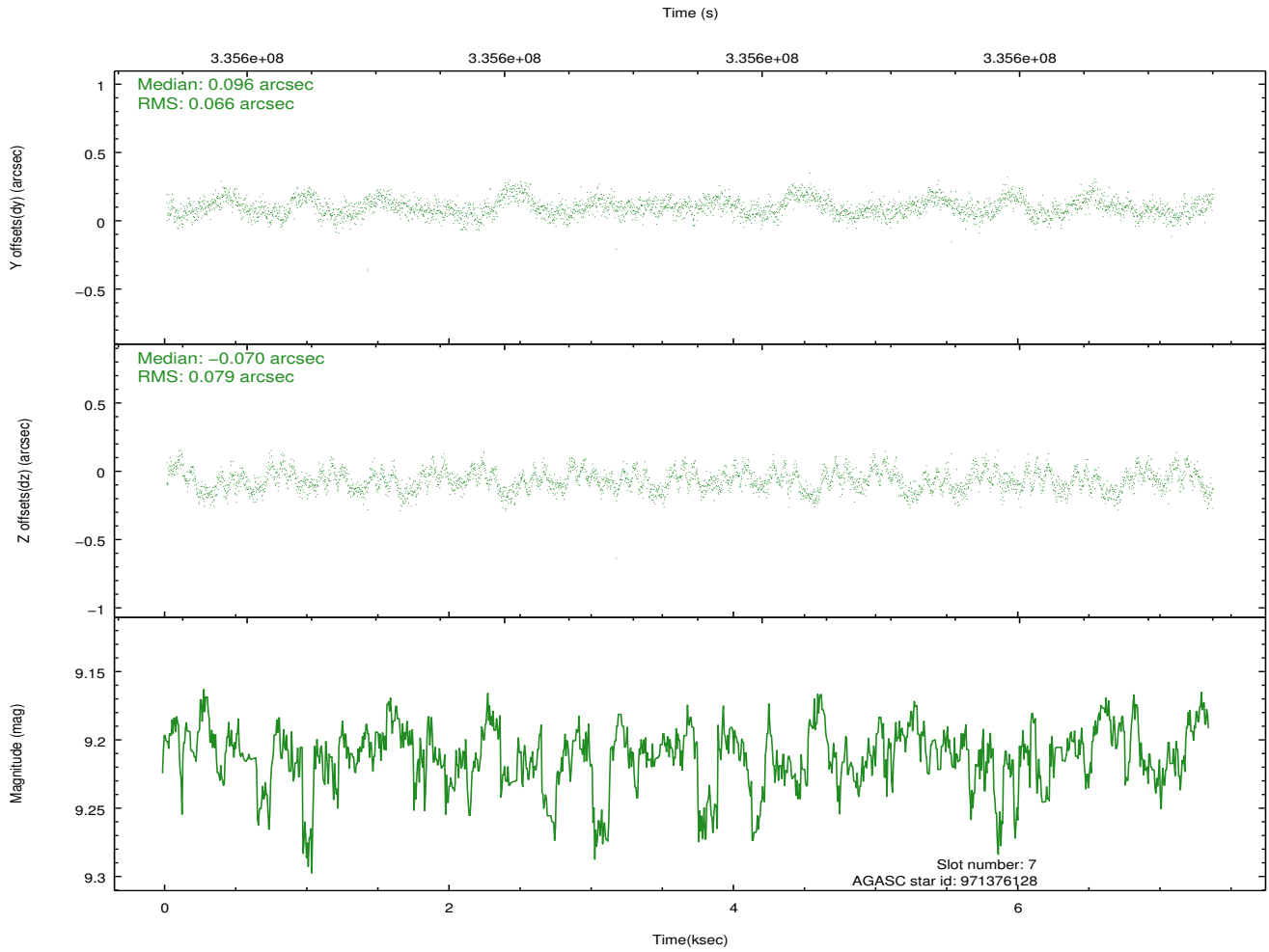
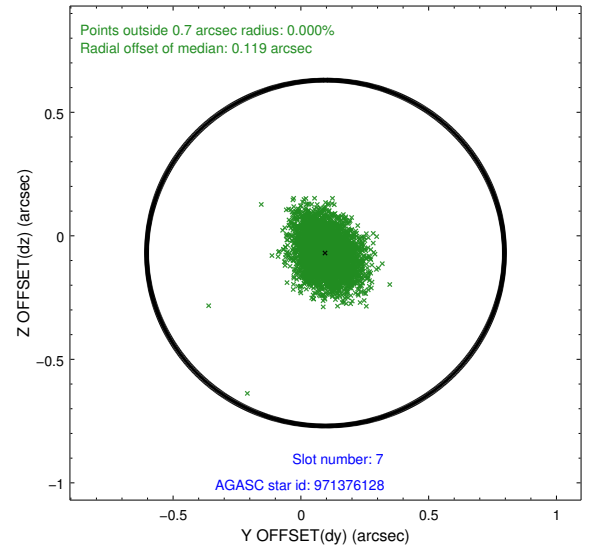
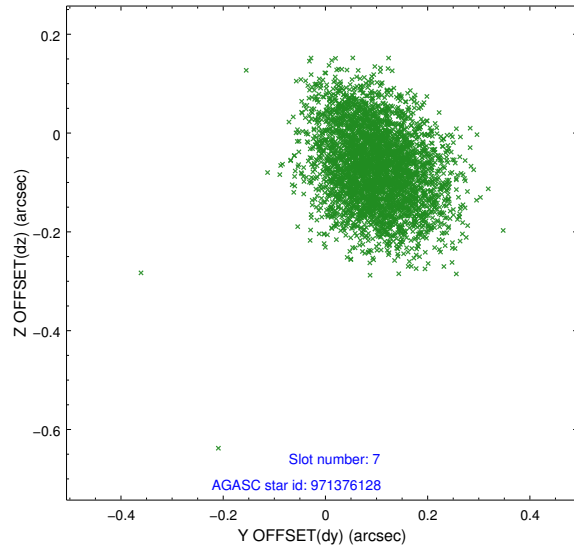
2.4.3 Slot 5



2.4.4 Slot 6

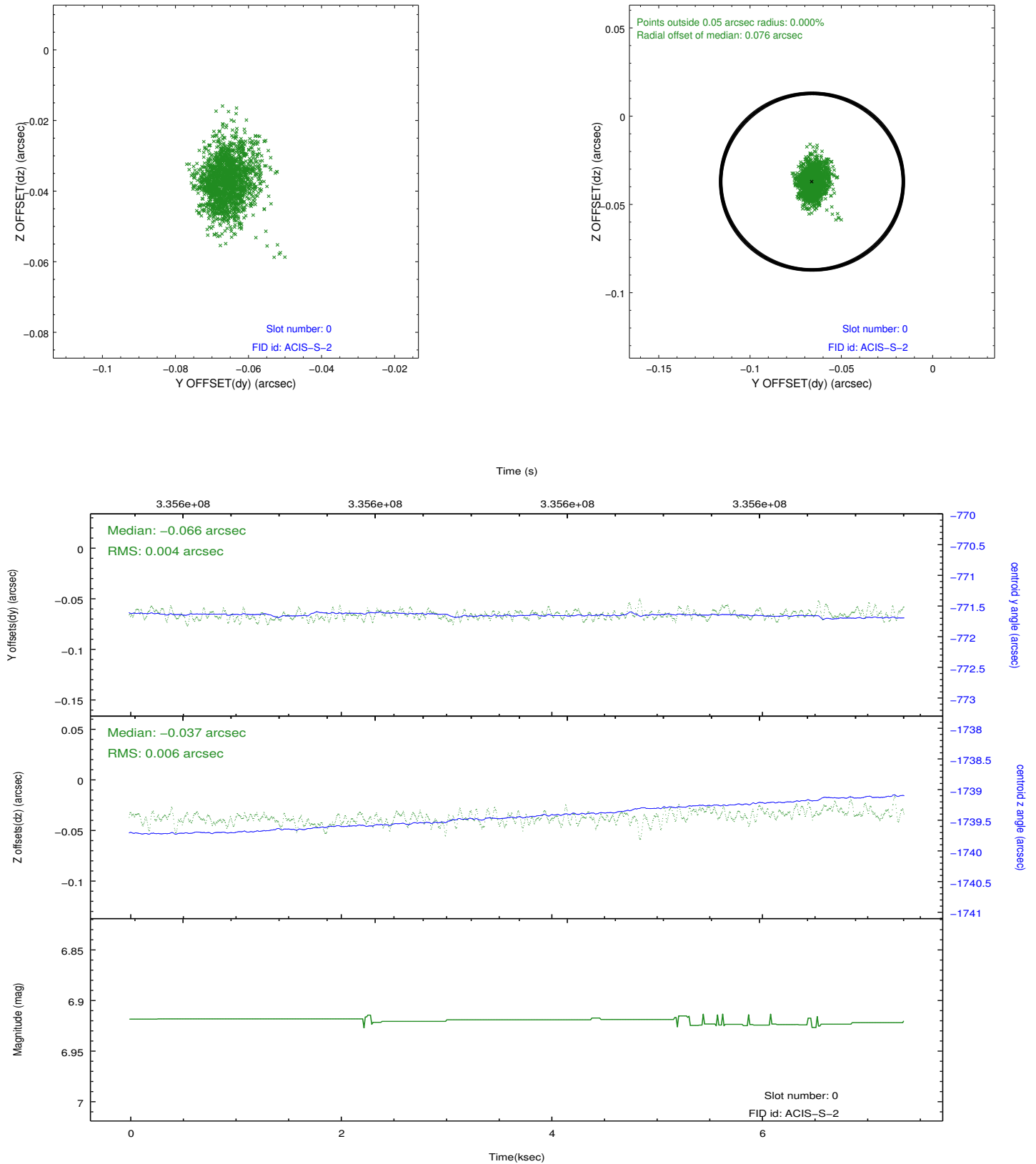


2.4.5 Slot 7

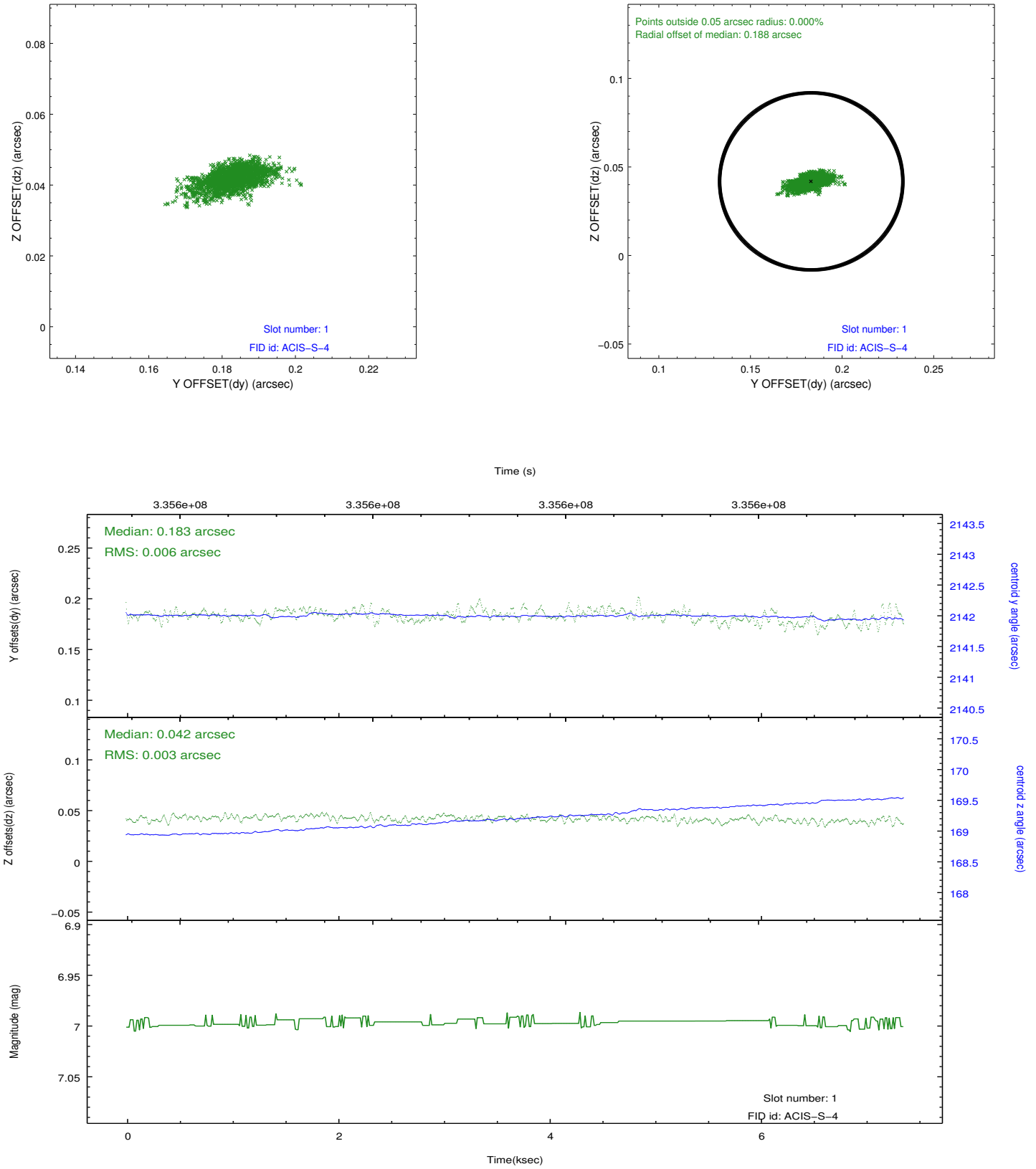


2.5 FID Slots

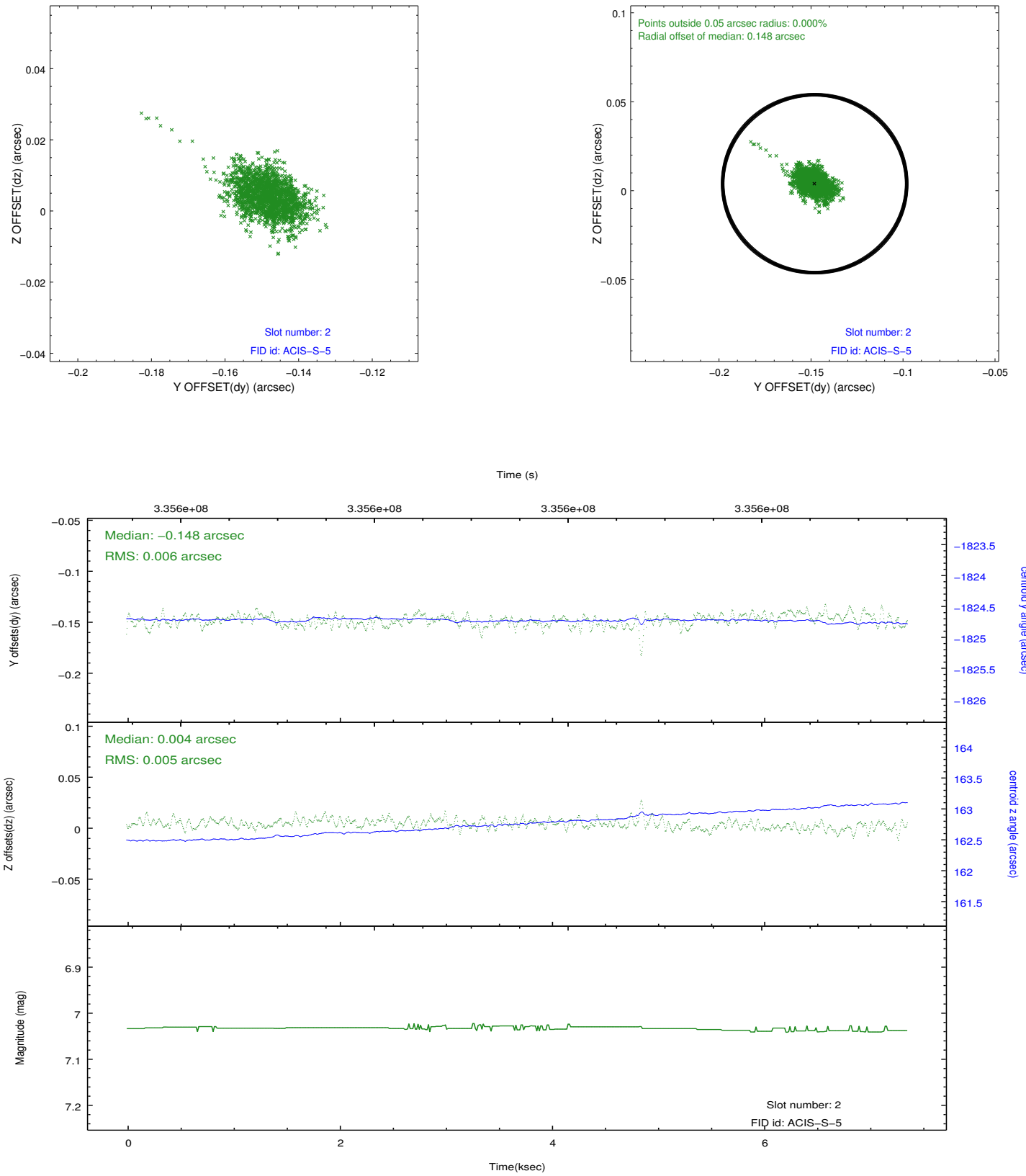
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.05.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.35359997

A.2 Comments

Aspect Team has examined this observation and indicated the larger than normal SIM offsets are not unexpected so soon after the Normal Sun Mode anomaly and that they are within tolerance of acceptable pointing during the observation. The science potential of the observation is not affected.