

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9028 - L2 Version 2
Chandra X-Ray Center

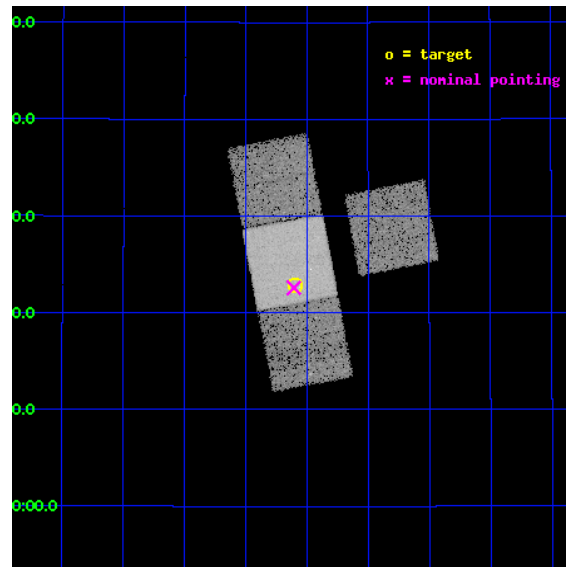
L2 Processing Date : May 6 2012

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

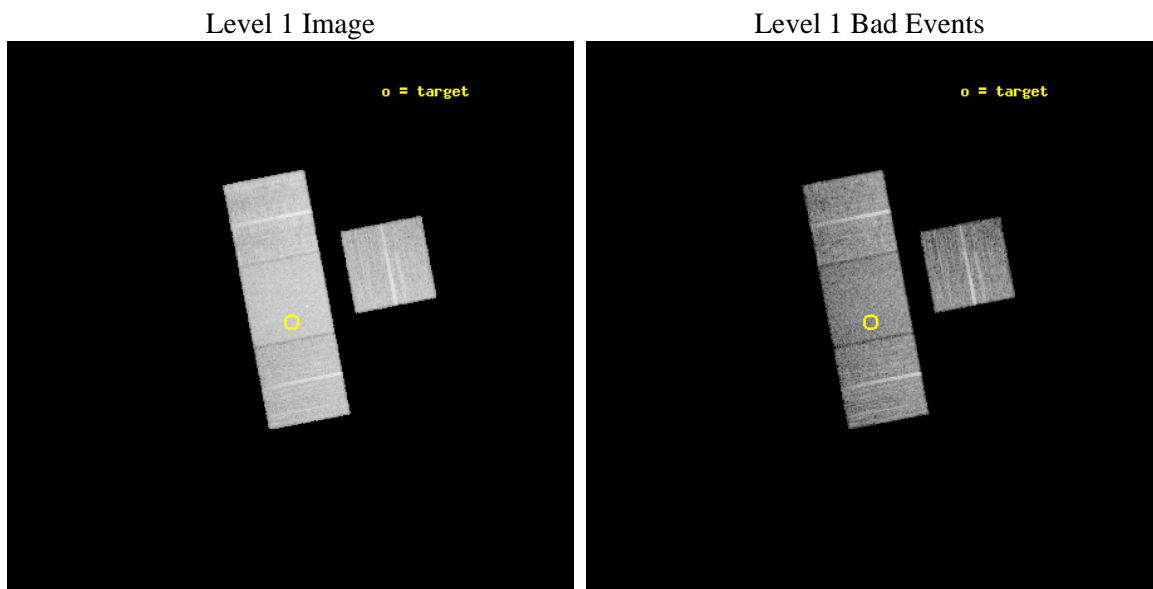
seq_num	400879	Sequence number
obs_id	9028	Observation id
title	The Nature of the Intermediate-Luminosity X-ray Sources in Globular Clusters	Proposal title
observer	Prof. Craig Heinke	Principal investigator
object	Palomar 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	71.524583	Observer's specified target RA [deg]
dec_targ	31.380833	Observer's specified target Dec [deg]
ra_nom	71.526583069102	Nominal RA [deg]
dec_nom	31.37633664439	Nominal Dec [deg]
roll_nom	259.15442656568	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10171.100078225	Sum of GTIs [s]
livetime	10038.207167848	Livetime [s]
ontime3	10164.818127573	Sum of GTIs [s]
ontime6	10167.959078014	Sum of GTIs [s]
ontime7	10171.100078225	Sum of GTIs [s]
ontime8	10164.818107665	Sum of GTIs [s]
l2events	90332	Number of level 2 events



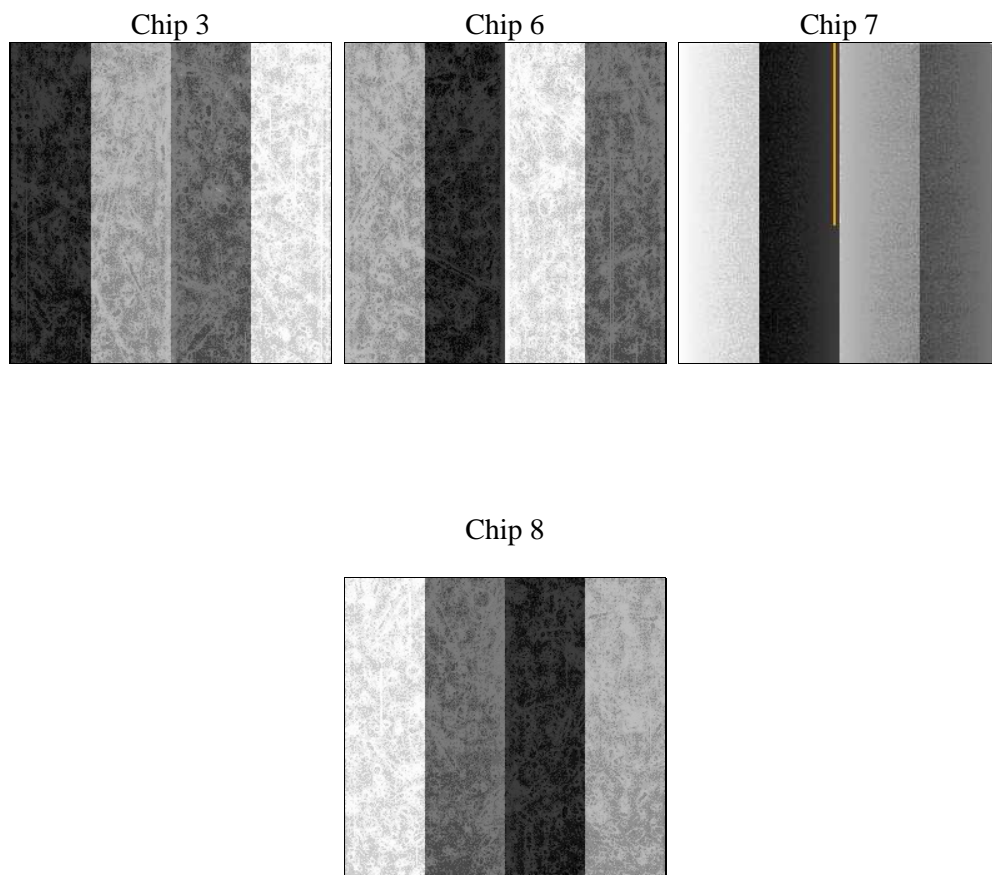
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	10171.100078225	Sum of GTIs [s]
caldsver	4.4.9	 	ontime3	10164.818127573	Sum of GTIs [s]
date	2012-05-06T15:55:58	Date and time of file creation	ontime6	10167.959078014	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	10171.100078225	Sum of GTIs [s]
			ontime8	10164.818107665	Sum of GTIs [s]
			l1events	541093	Number of level 1 events

2.1.4 Events

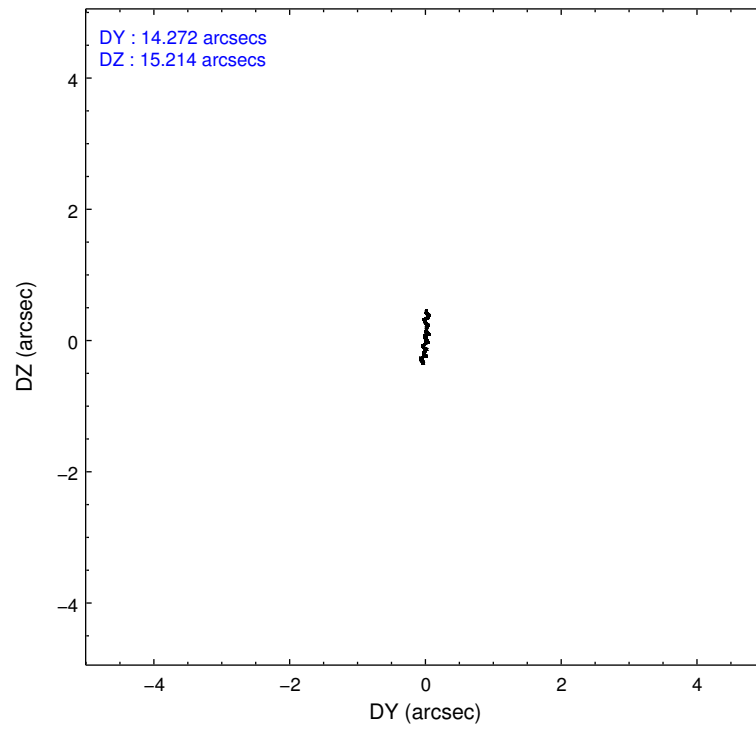
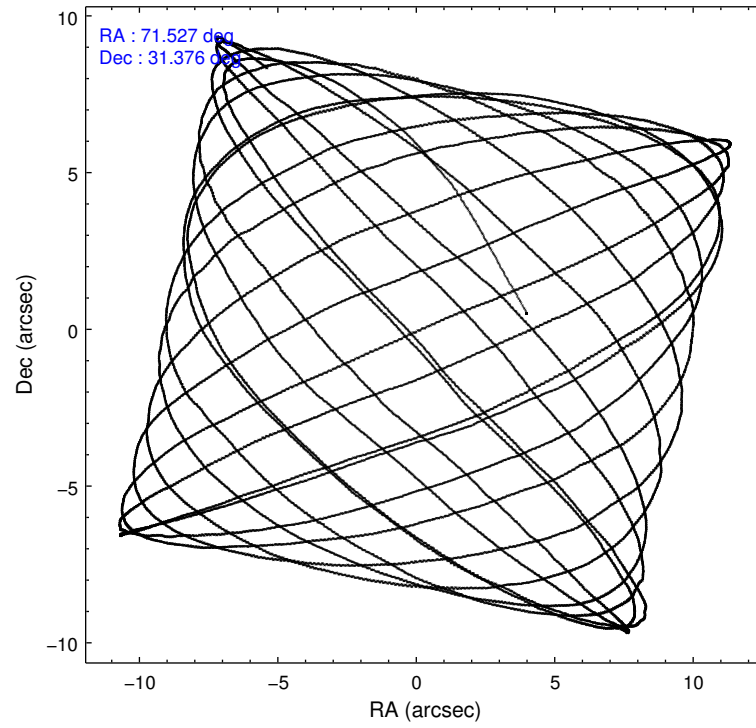
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	113149	120267	159407	148270
rejected events	101281	107934	101706	119249
rejected %	89%	89%	63%	80%

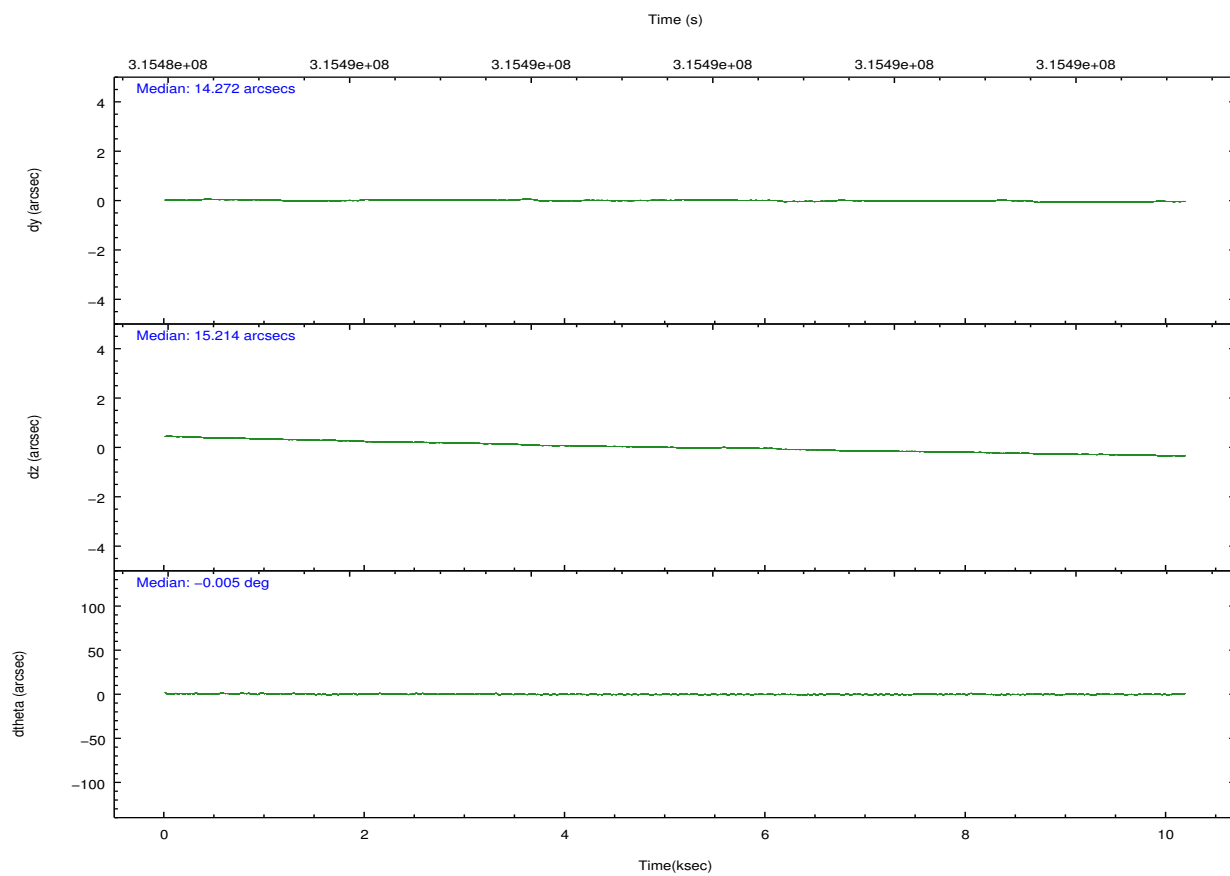
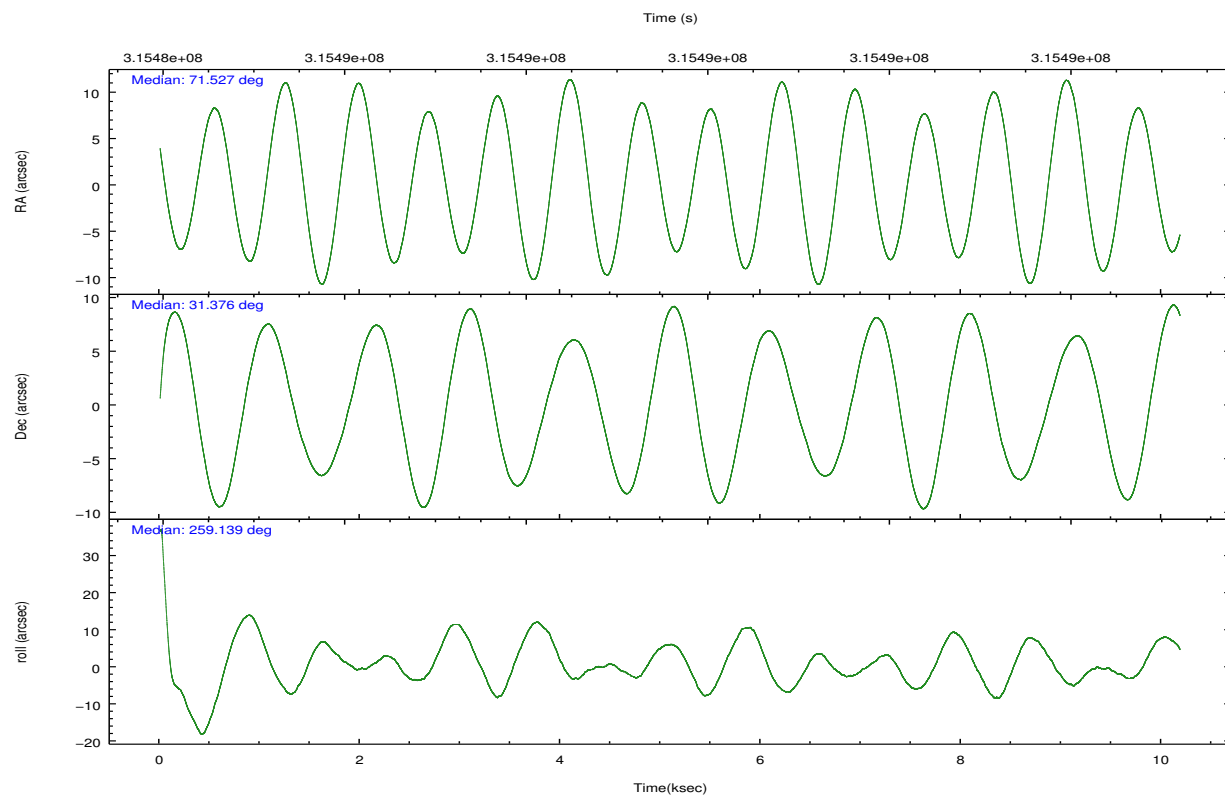
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	5997	5513	5800	10565
	5%	4%	3%	7%
grade 1 events	82	67	158	129
	0%	0%	0%	0%
grade 2 events	2769	3176	13656	7944
	2%	2%	8%	5%
grade 3 events	1261	1276	5637	3392
	1%	1%	3%	2%
grade 4 events	1308	1350	5680	3132
	1%	1%	3%	2%
grade 5 events	5340	5568	14990	7373
	4%	4%	9%	4%
grade 6 events	2381	2936	35823	8536
	2%	2%	22%	5%
grade 7 events	94011	100381	77663	107199
	83%	83%	48%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-3678	ACIS-3678	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	71.515678	71.52658306910246	CCD I2 on	N	N
[deg] Pointing Dec	31.402004	31.37633664439022	CCD I3 on	O1	Y
[deg] Pointing Roll	259.003411	259.1544265656752	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	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)	315484672.184000	315482906.70047	CCD S5 on	N	N
Observation start date	2007-12-31T10:36:47	2007-12-31T10:08:26	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	315494672.184000	315495357.88857	On-chip summing requested	N	N
Observation end date	2007-12-31T13:23:27	2007-12-31T13:35:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



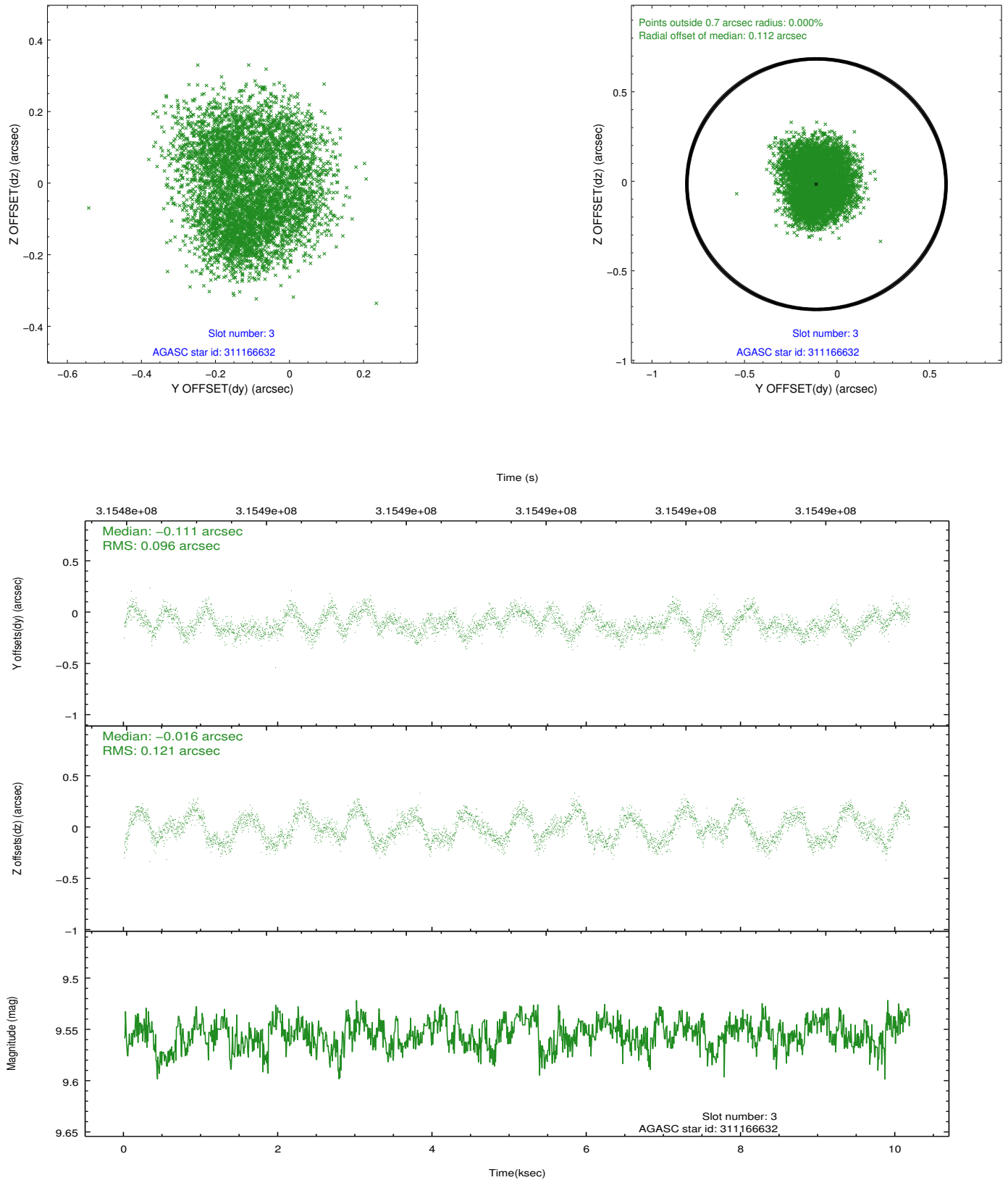


Slot Statistics

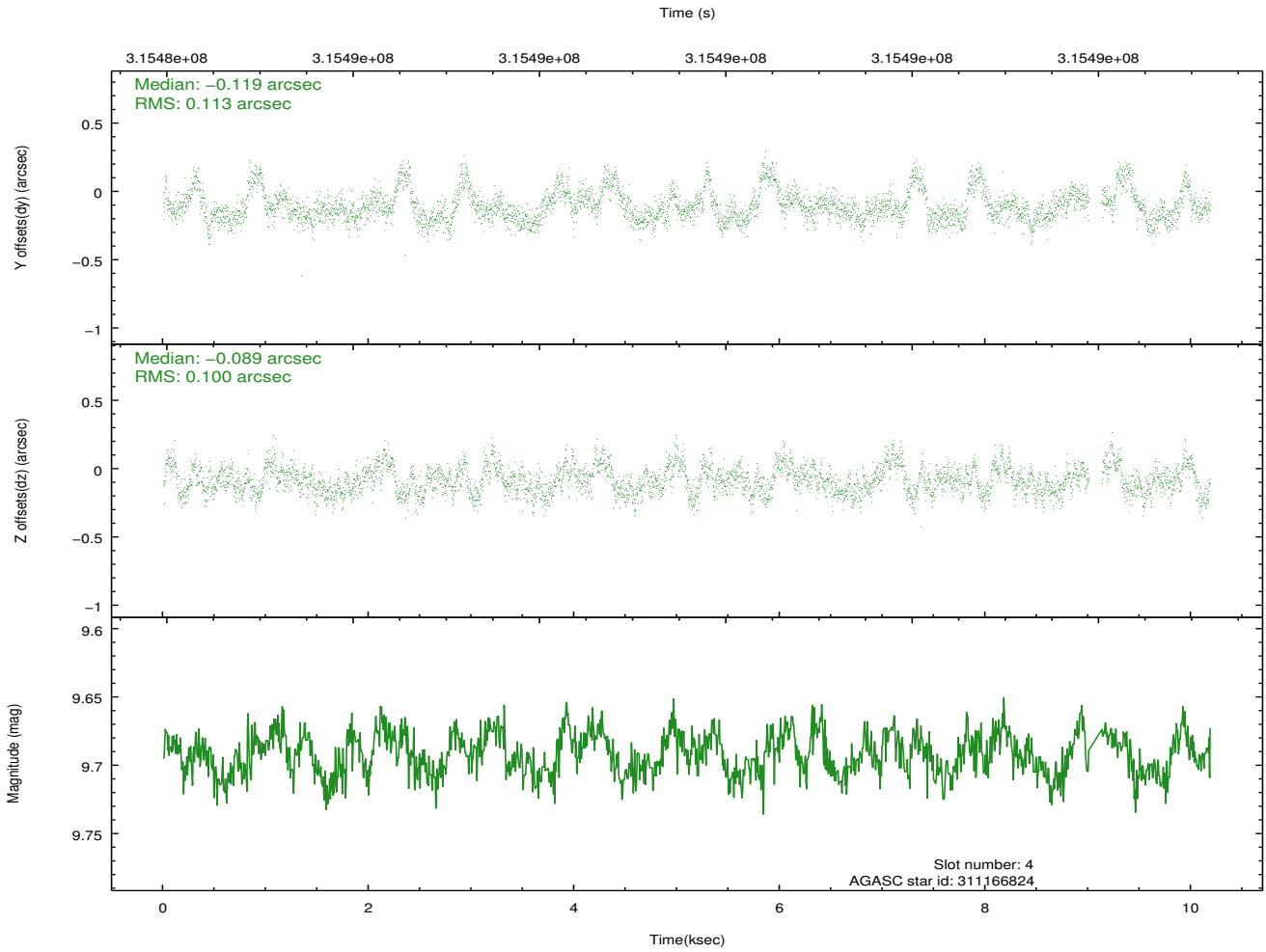
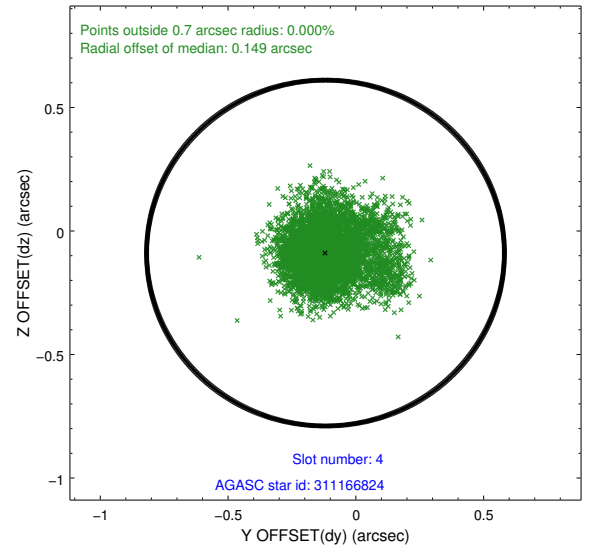
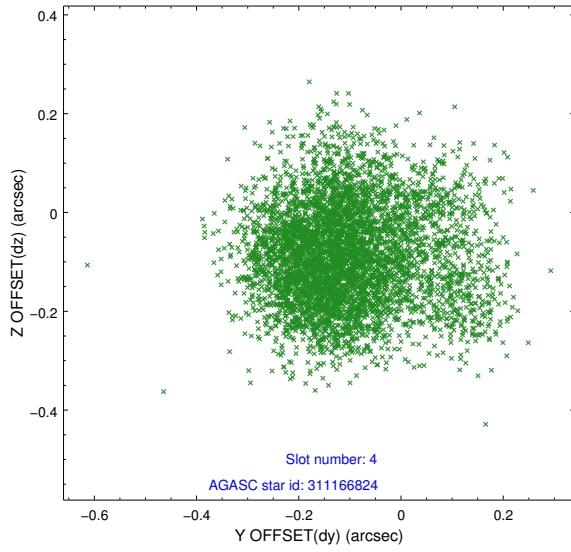
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	2483	-0.082	-0.029	0.007	0.012	0.000000	0.000000	-767.28	-1736.60
1	FID	ACIS-S-4	7.20	2483	0.202	0.048	0.006	0.010	0.000000	0.000000	2146.02	171.45
2	FID	ACIS-S-5	7.22	2483	-0.151	-0.009	0.007	0.011	0.000000	0.000000	-1819.55	165.62
3	GUIDE	311166632	9.55	4964	-0.111	-0.016	0.170	0.246	71.605145	31.096853	1026.00	480.40
4	GUIDE	311166824	9.69	4898	-0.119	-0.089	0.157	0.270	71.492822	31.228444	627.70	50.84
5	GUIDE	311167928	10.07	4962	0.054	0.012	0.149	0.247	71.692805	30.906545	1646.56	877.66
6	GUIDE	311168456	10.37	4960	0.083	0.034	0.346	0.514	71.037038	30.866029	2174.30	-1083.77
7	GUIDE	312873248	10.13	4958	0.067	0.050	0.182	0.288	72.193472	31.039745	875.52	2299.85

2.4 Star Slots

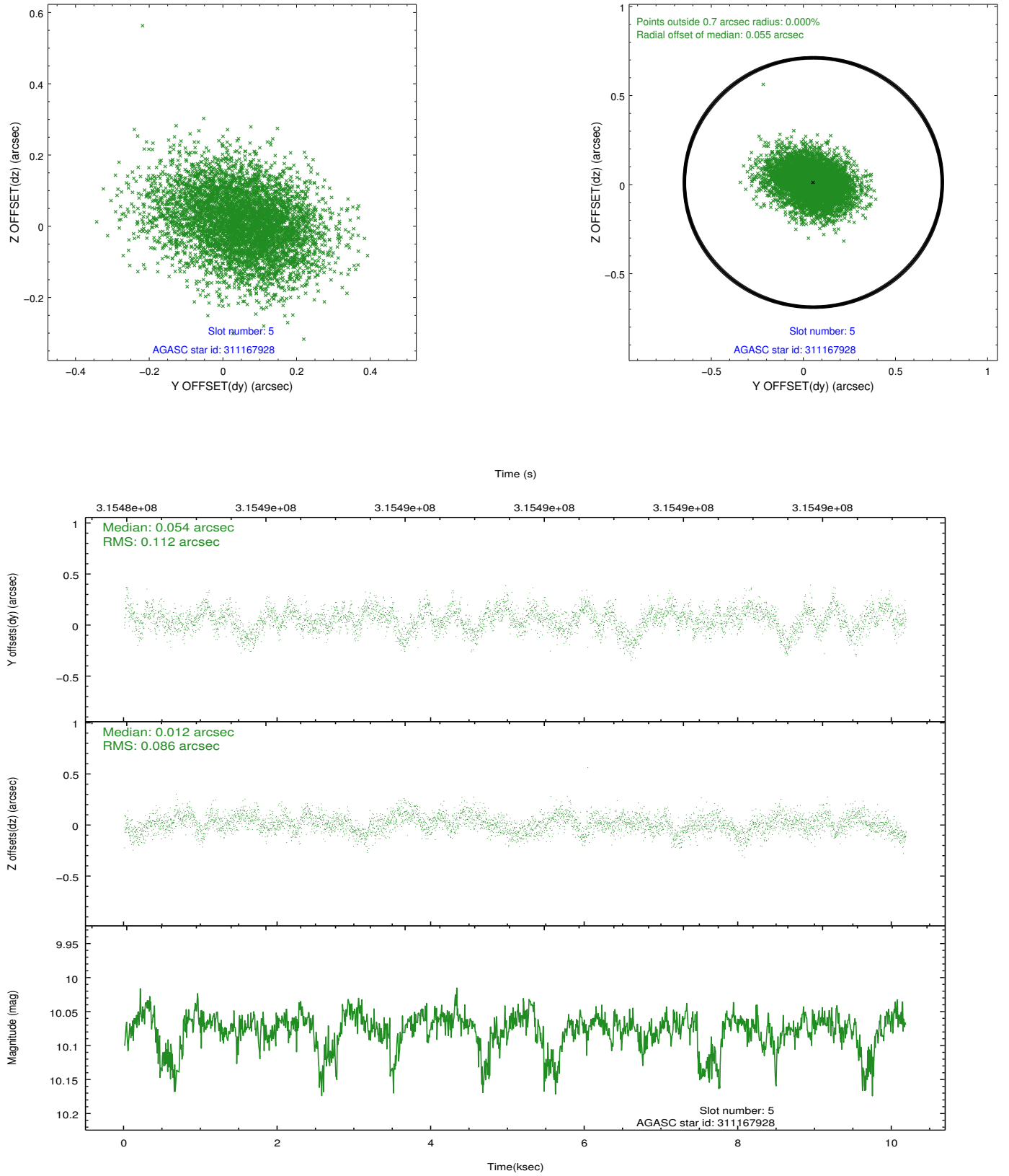
2.4.1 Slot 3



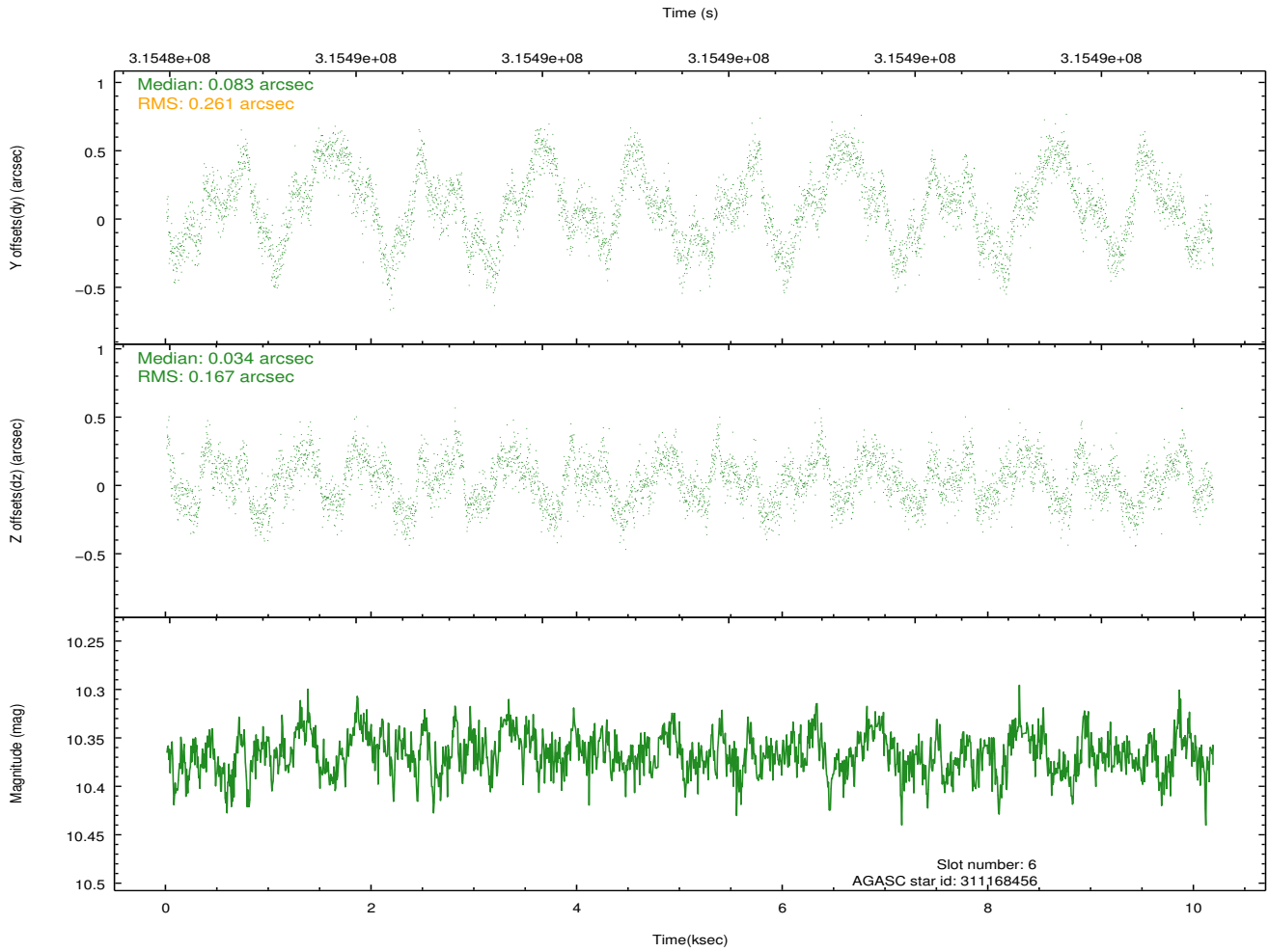
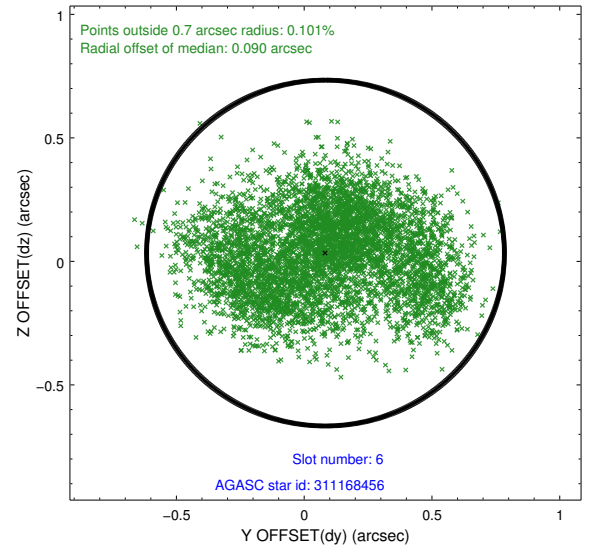
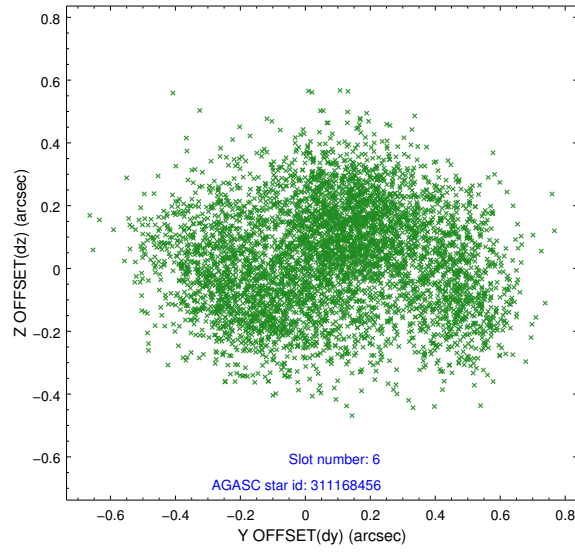
2.4.2 Slot 4



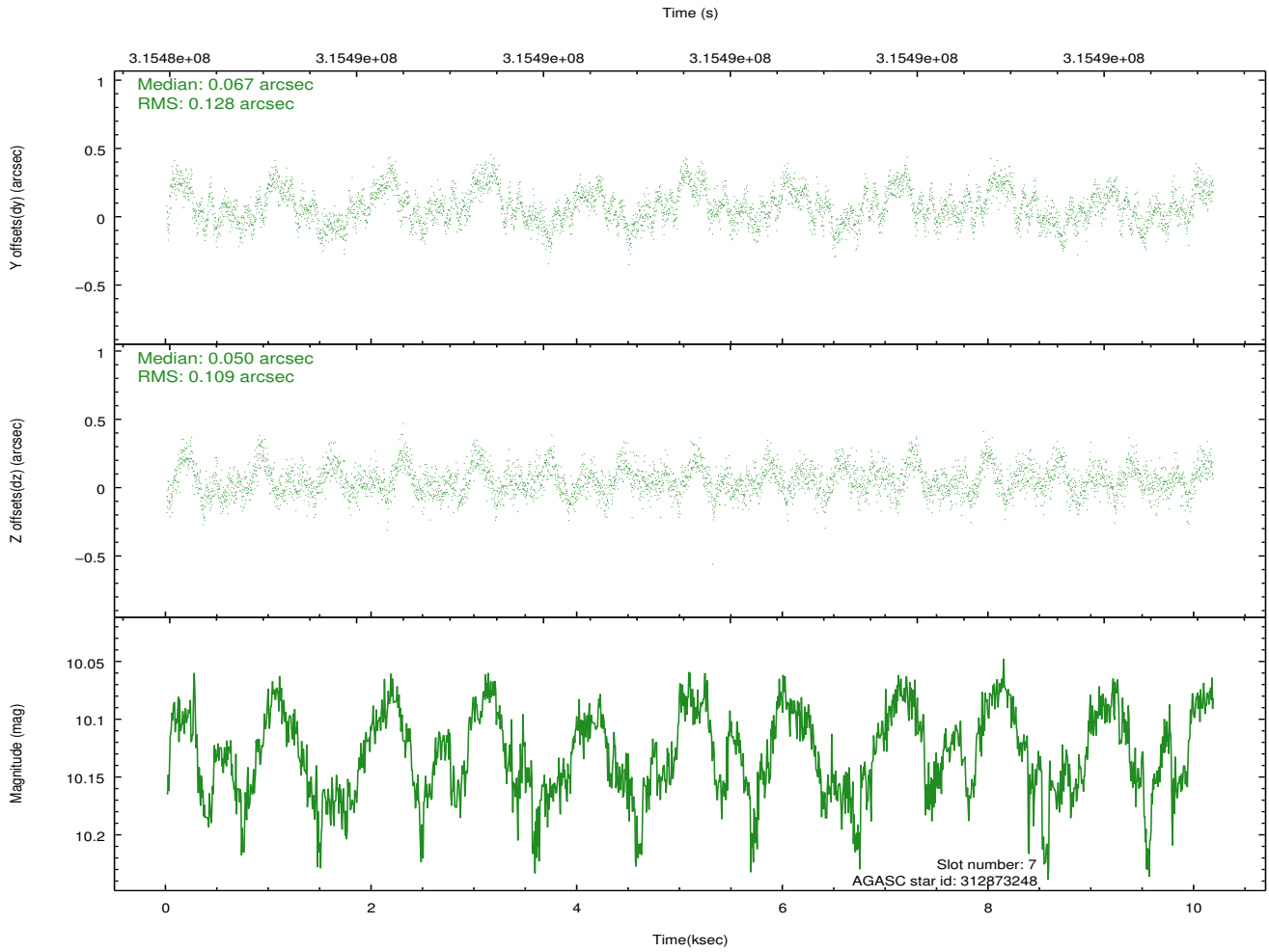
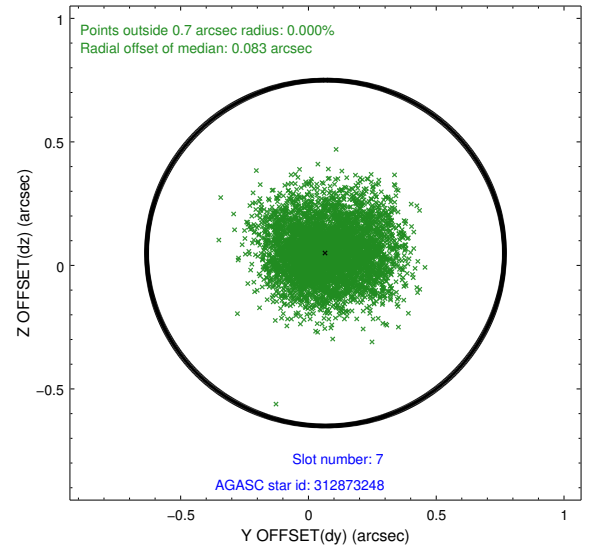
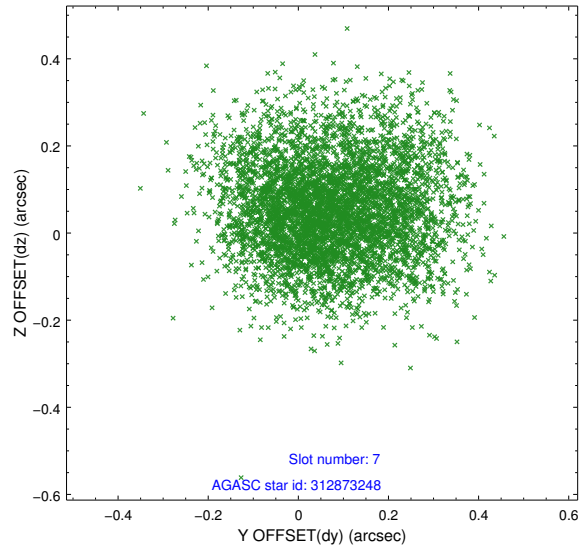
2.4.3 Slot 5



2.4.4 Slot 6

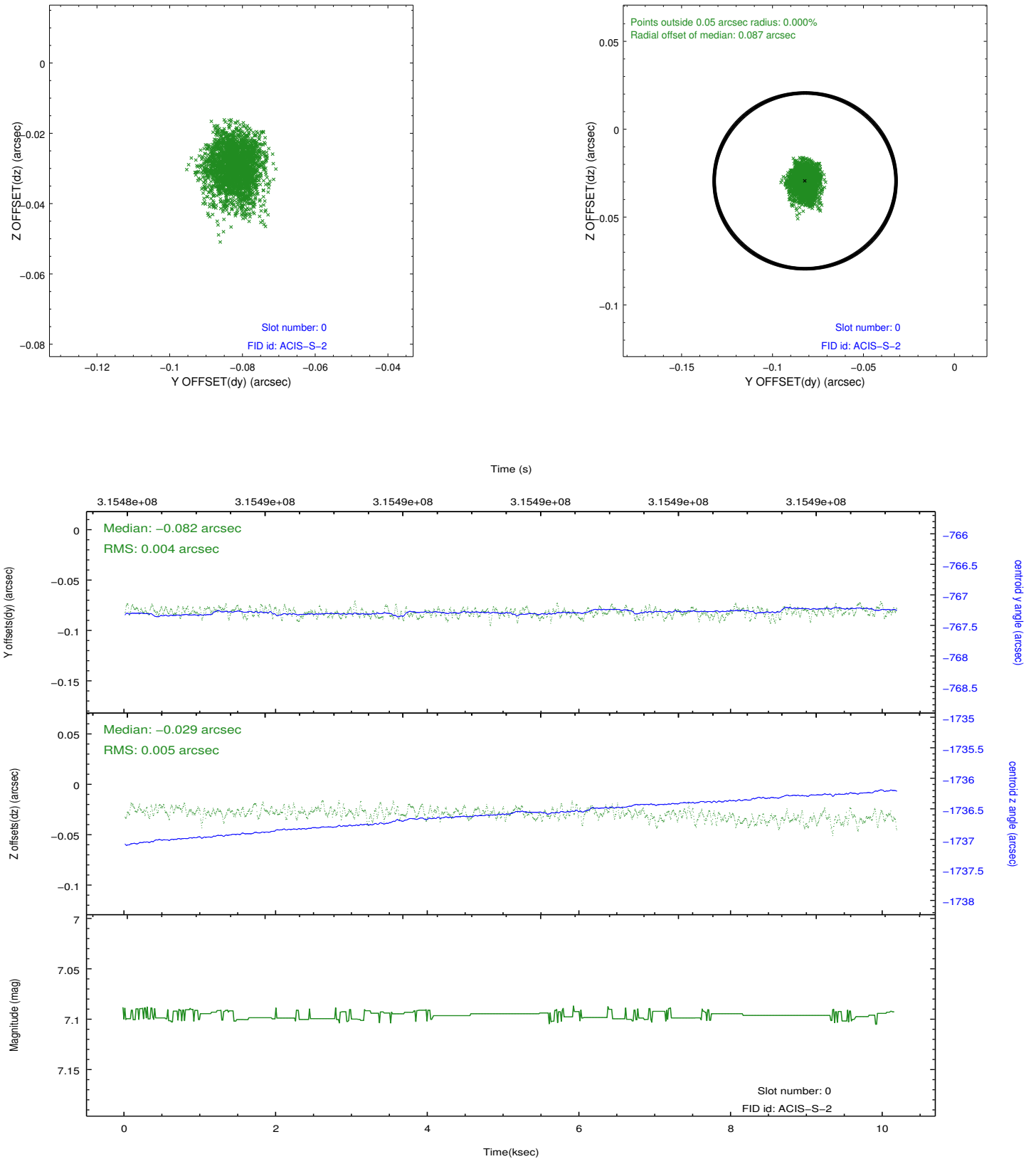


2.4.5 Slot 7

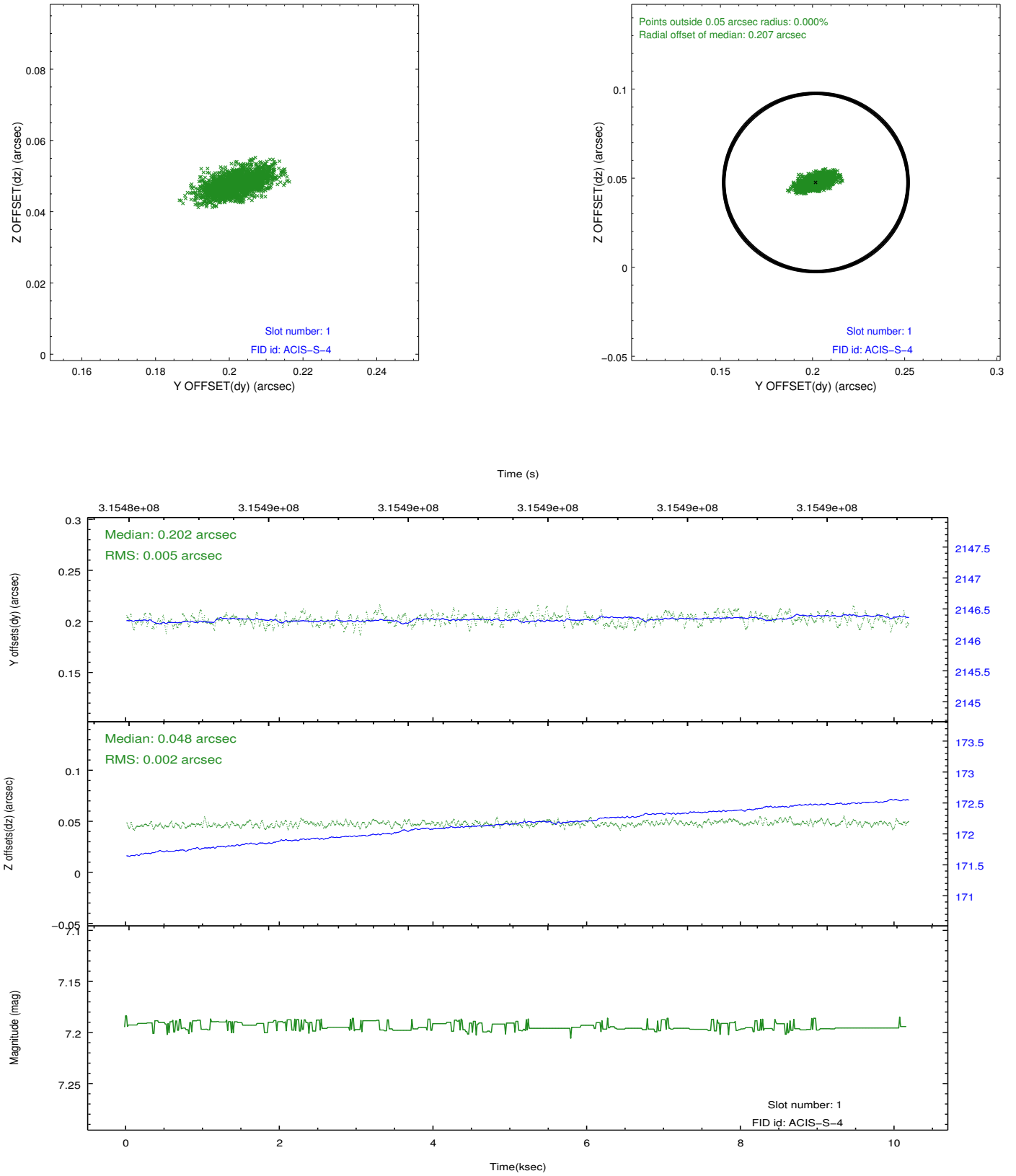


2.5 FID Slots

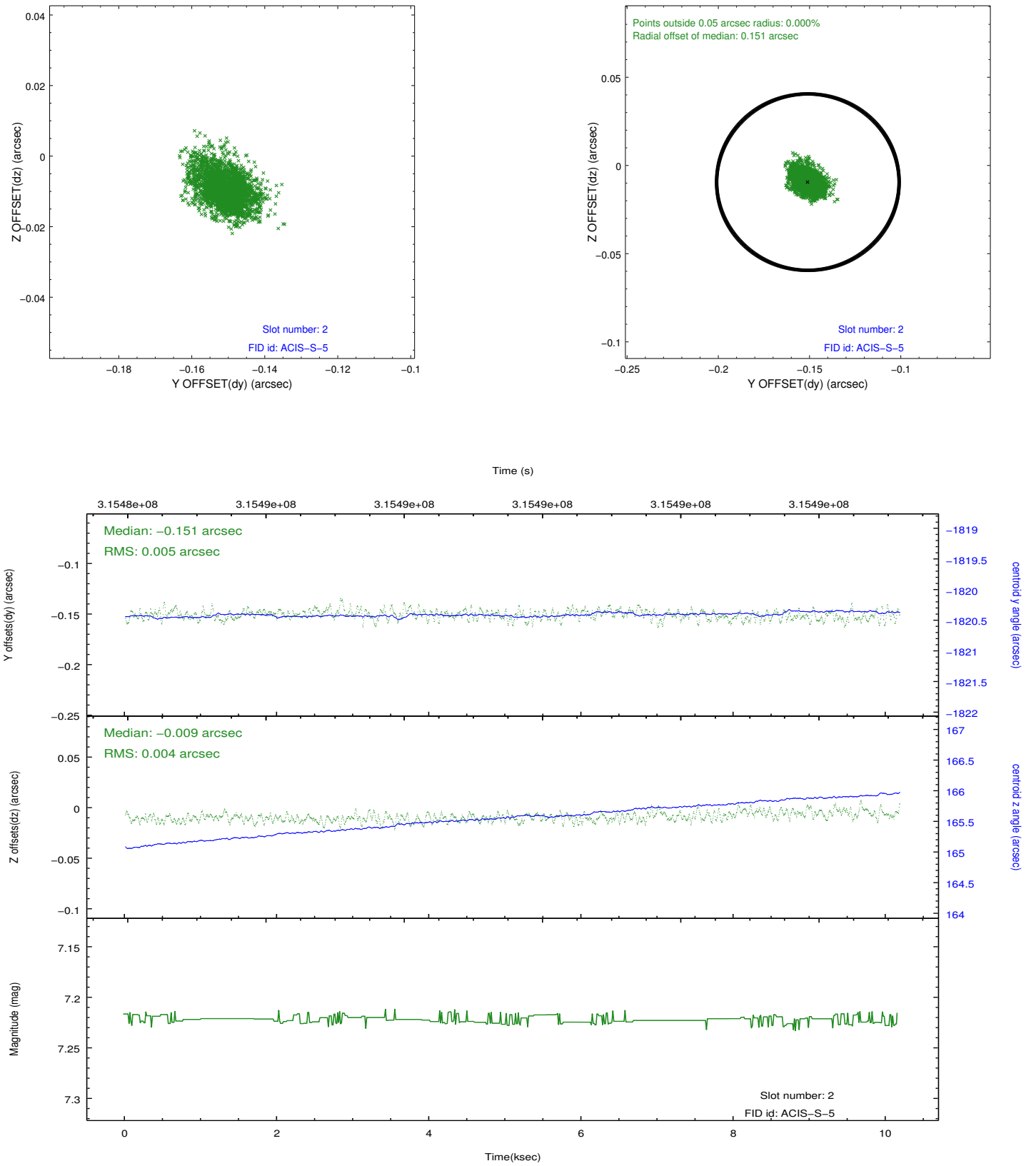
2.5.1 Slot 0



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)	2012.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.1711

A.2 Comments