

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 10266 - L2 Version 3
Chandra X-Ray Center

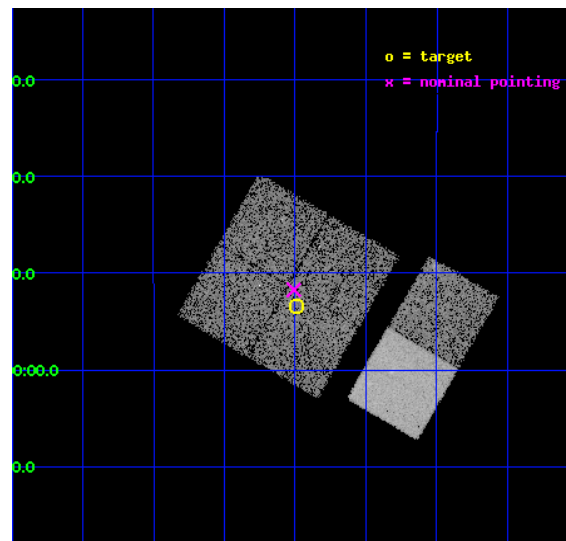
L2 Processing Date : Jun 8 2012

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

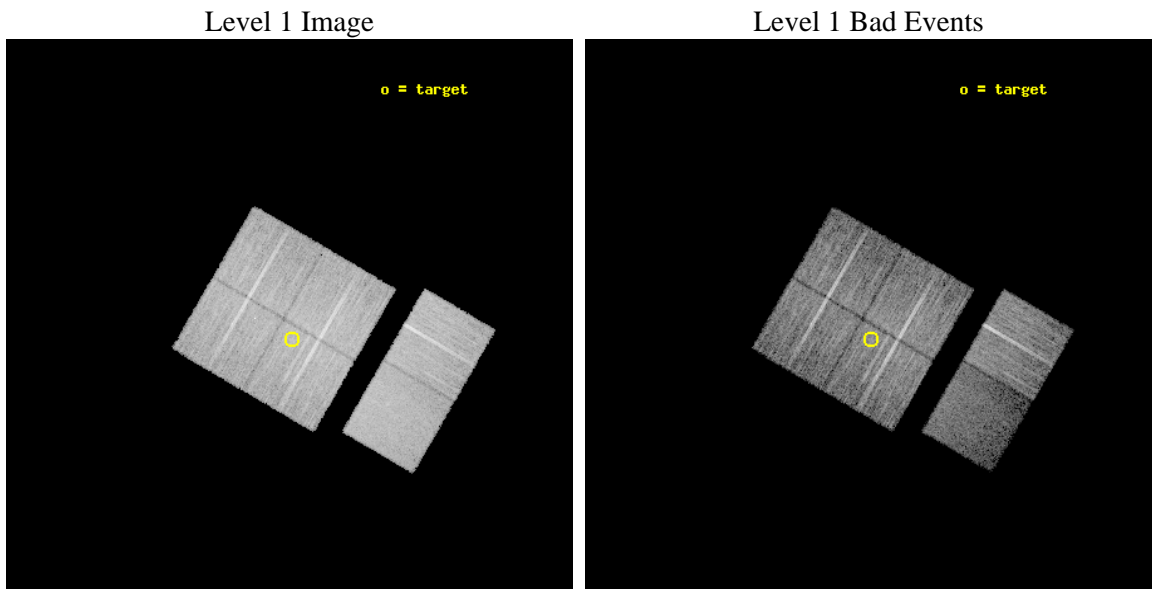
seq_num	701809	Sequence number
obs_id	10266	Observation id
title	Using Chandra and HST to Construct the First Detailed Timeline of Early-Type Galaxy Evolution	Proposal title
observer	Prof. Ann Zabludoff	Principal investigator
object	SDSSJ004459.24-085322.9	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	11.246667	Observer's specified target RA [deg]
dec_targ	-8.889694	Observer's specified target Dec [deg]
ra_nom	11.25217198641	Nominal RA [deg]
dec_nom	-8.8622987703328	Nominal Dec [deg]
roll_nom	120.20297683597	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10038.399962664	Sum of GTIs [s]
livetime	9911.2876979376	Livetime [s]
ontime0	10035.159002304	Sum of GTIs [s]
ontime1	10038.399962664	Sum of GTIs [s]
ontime2	10038.399962664	Sum of GTIs [s]
ontime3	10038.399962664	Sum of GTIs [s]
ontime6	10038.399962664	Sum of GTIs [s]
ontime7	10038.399962664	Sum of GTIs [s]
l2events	70712	Number of level 2 events



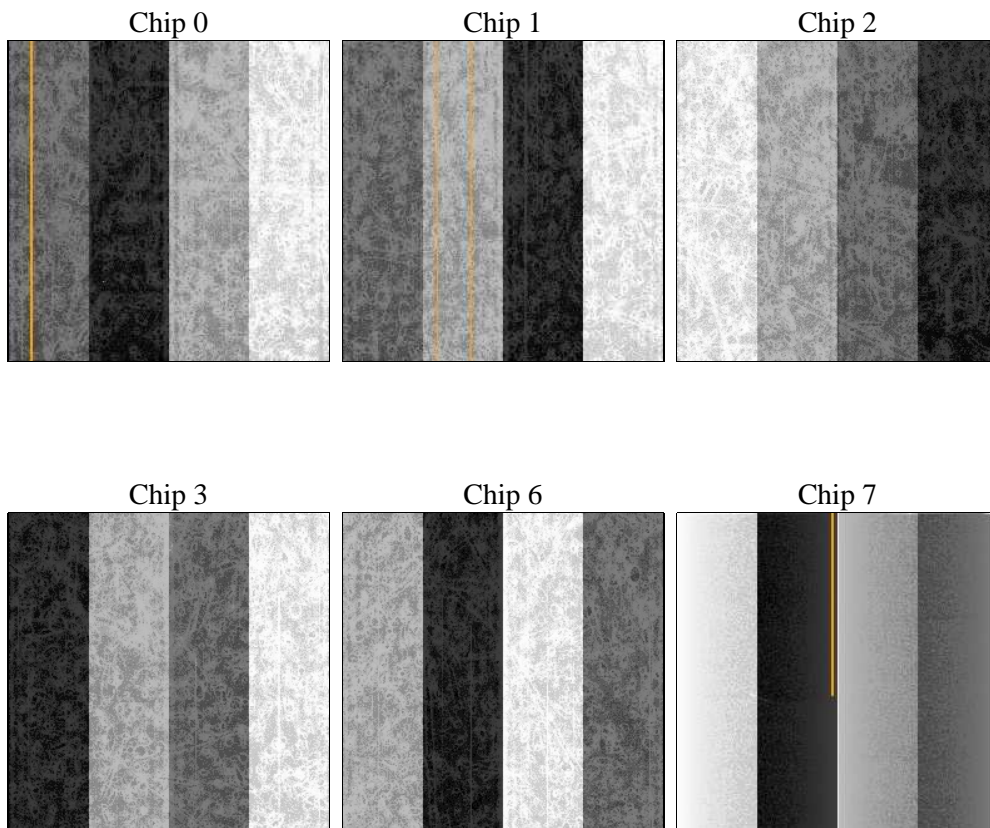
2 OBI

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	8.4.5	Processing system revision	ontime	10038.399962664	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	10035.159002304	Sum of GTIs [s]
date	2012-06-08T13:39:04	Date and time of file creation	ontime1	10038.399962664	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	10038.399962664	Sum of GTIs [s]
			ontime3	10038.399962664	Sum of GTIs [s]
			ontime6	10038.399962664	Sum of GTIs [s]
			ontime7	10038.399962664	Sum of GTIs [s]
			l1events	478688	Number of level 1 events

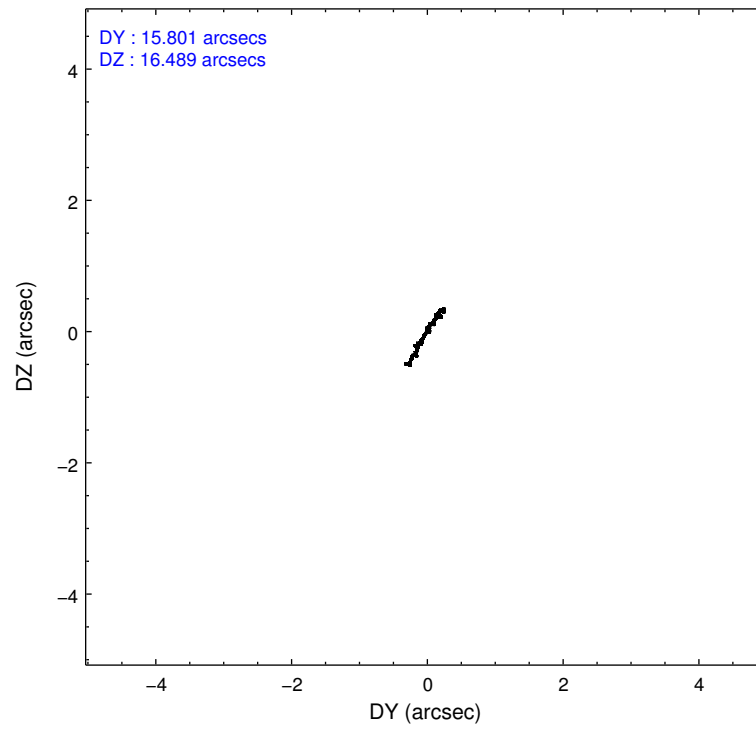
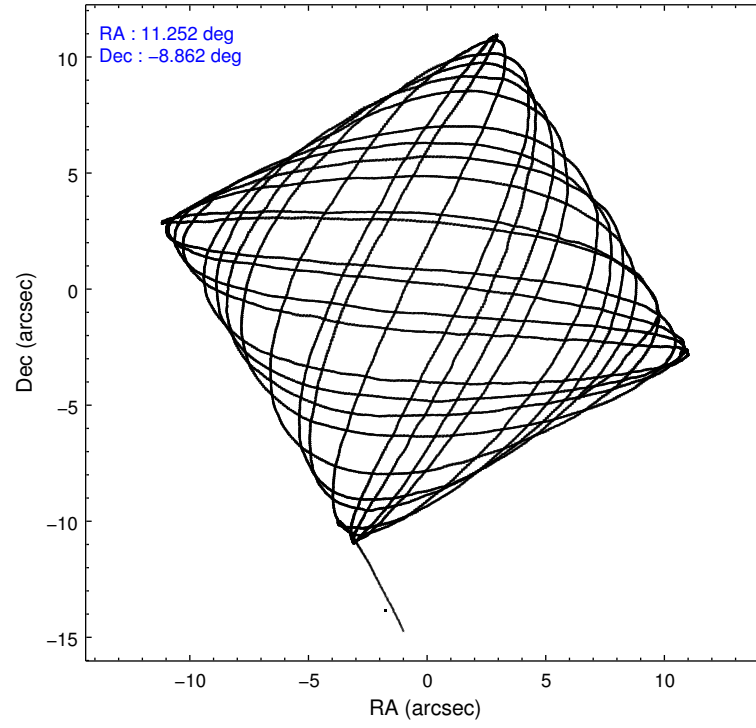
2.1.4 Events

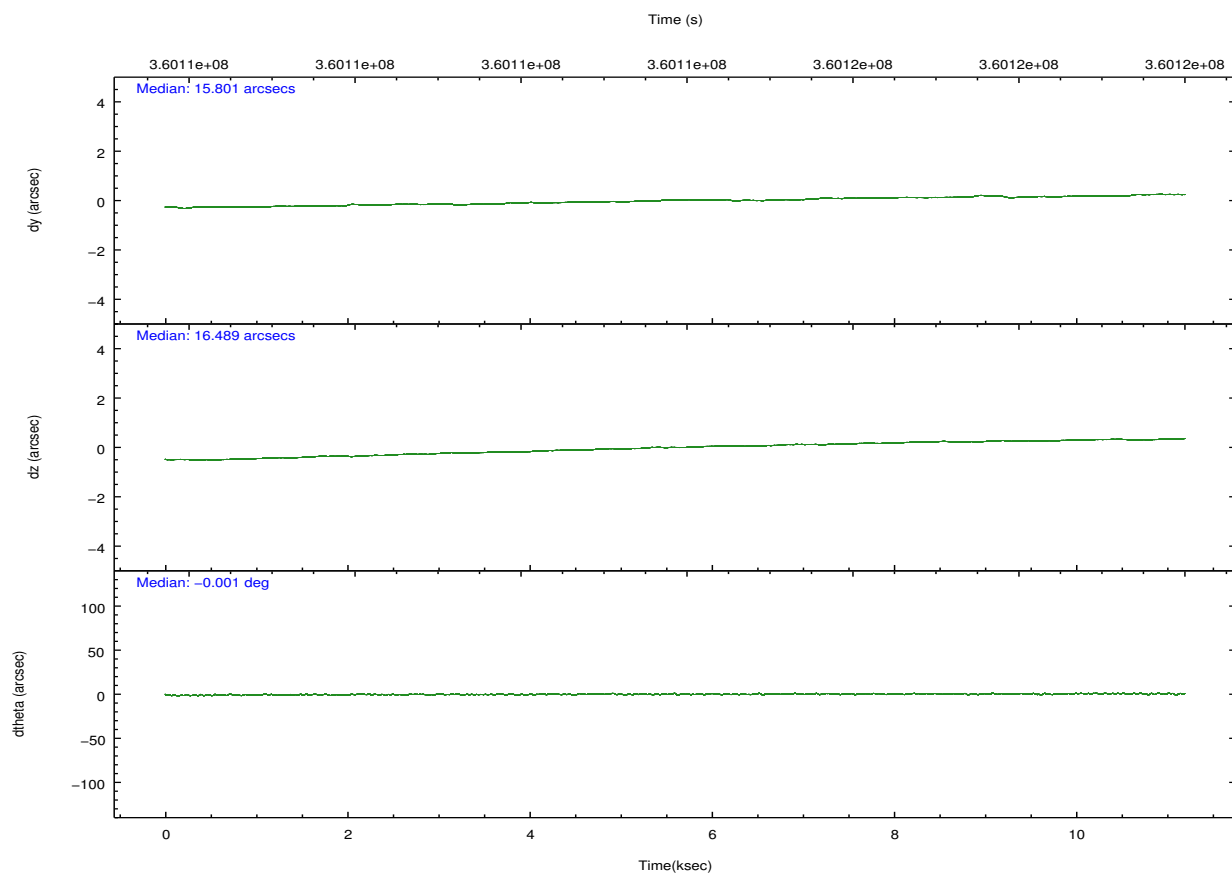
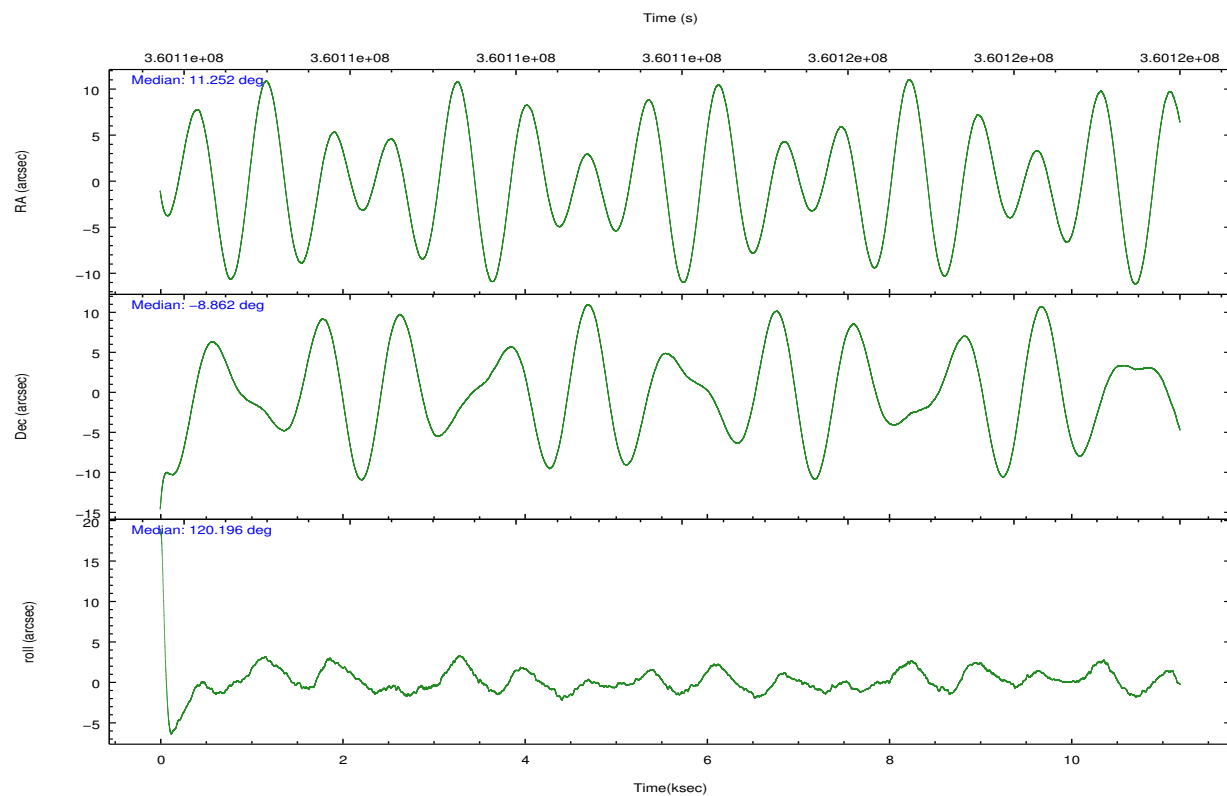
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	73951	74438	86168	81479	83448	79204	grade 0 events	2855	3007	3102	2824	3092	3947
rejected events	65877	65932	78199	73981	75061	40452		3%	4%	3%	3%	3%	4%
rejected %	89%	88%	90%	90%	89%	51%	grade 1 events	34	44	62	68	40	128
								0%	0%	0%	0%	0%	0%
							grade 2 events	2021	1903	1927	1612	1878	8225
								2%	2%	2%	1%	2%	10%
							grade 3 events	874	931	767	848	903	3598
								1%	1%	0%	1%	1%	4%
							grade 4 events	844	917	837	800	837	3595
								1%	1%	0%	0%	1%	4%
							grade 5 events	2427	2670	2336	2911	2886	8519
								3%	3%	2%	3%	3%	10%
							grade 6 events	1490	1755	1339	1425	1682	19412
								2%	2%	1%	1%	2%	24%
							grade 7 events	63406	63211	75798	70991	72130	31780
								85%	84%	87%	87%	86%	40%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	11.276362	11.25217198641019	CCD I2 on	Y	Y
[deg] Pointing Dec	-8.875844	-8.862298770332782	CCD I3 on	Y	Y
[deg] Pointing Roll	119.997989	120.2029768359657	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	360109443.184000	360106810.51599	CCD S5 on	N	N
Observation start date	2009-05-30T22:22:57	2009-05-30T21:40:10	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	360119443.184000	360120675.69168	On-chip summing requested	N	N
Observation end date	2009-05-31T01:09:37	2009-05-31T01:31:15	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



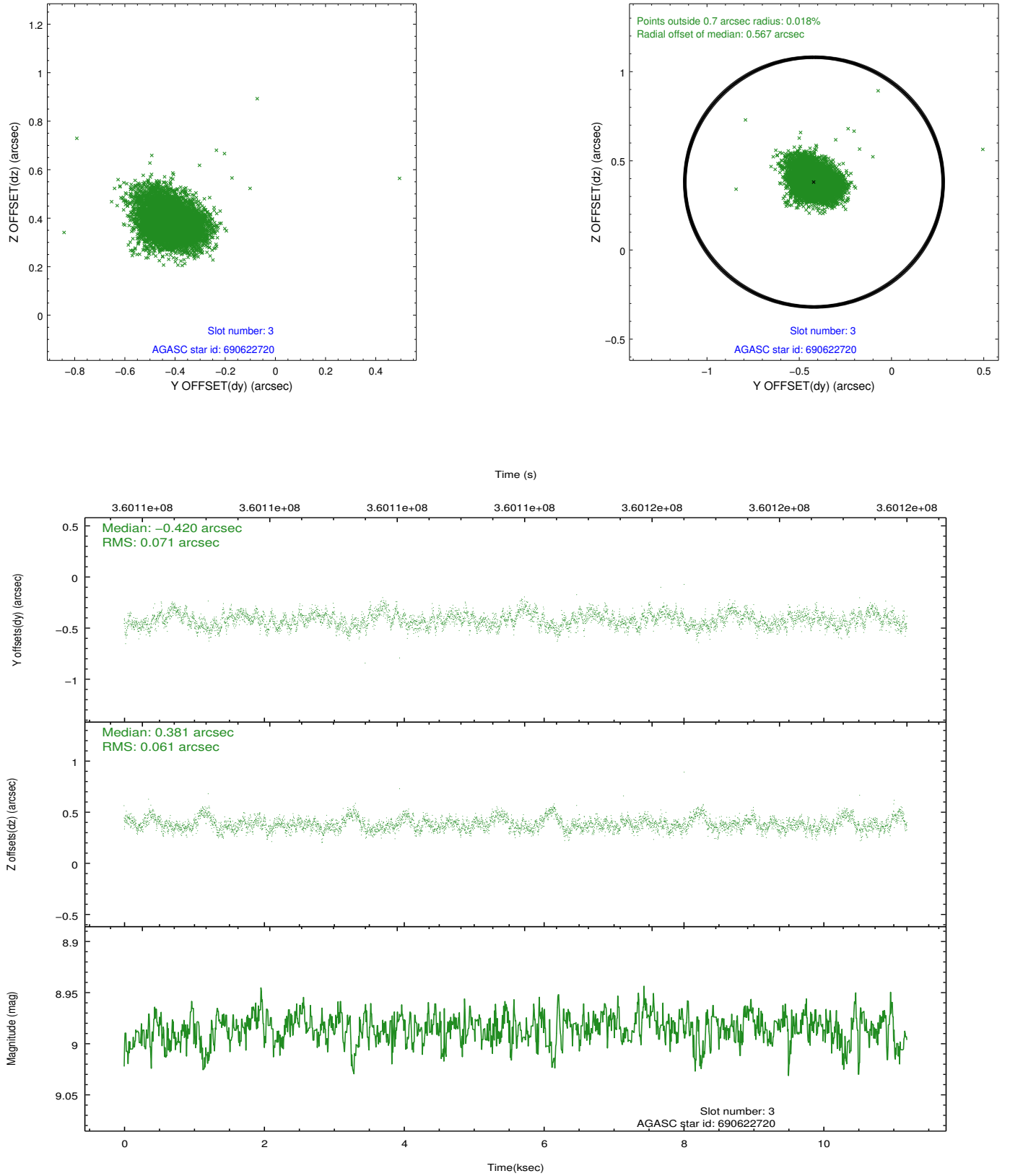


Slot Statistics

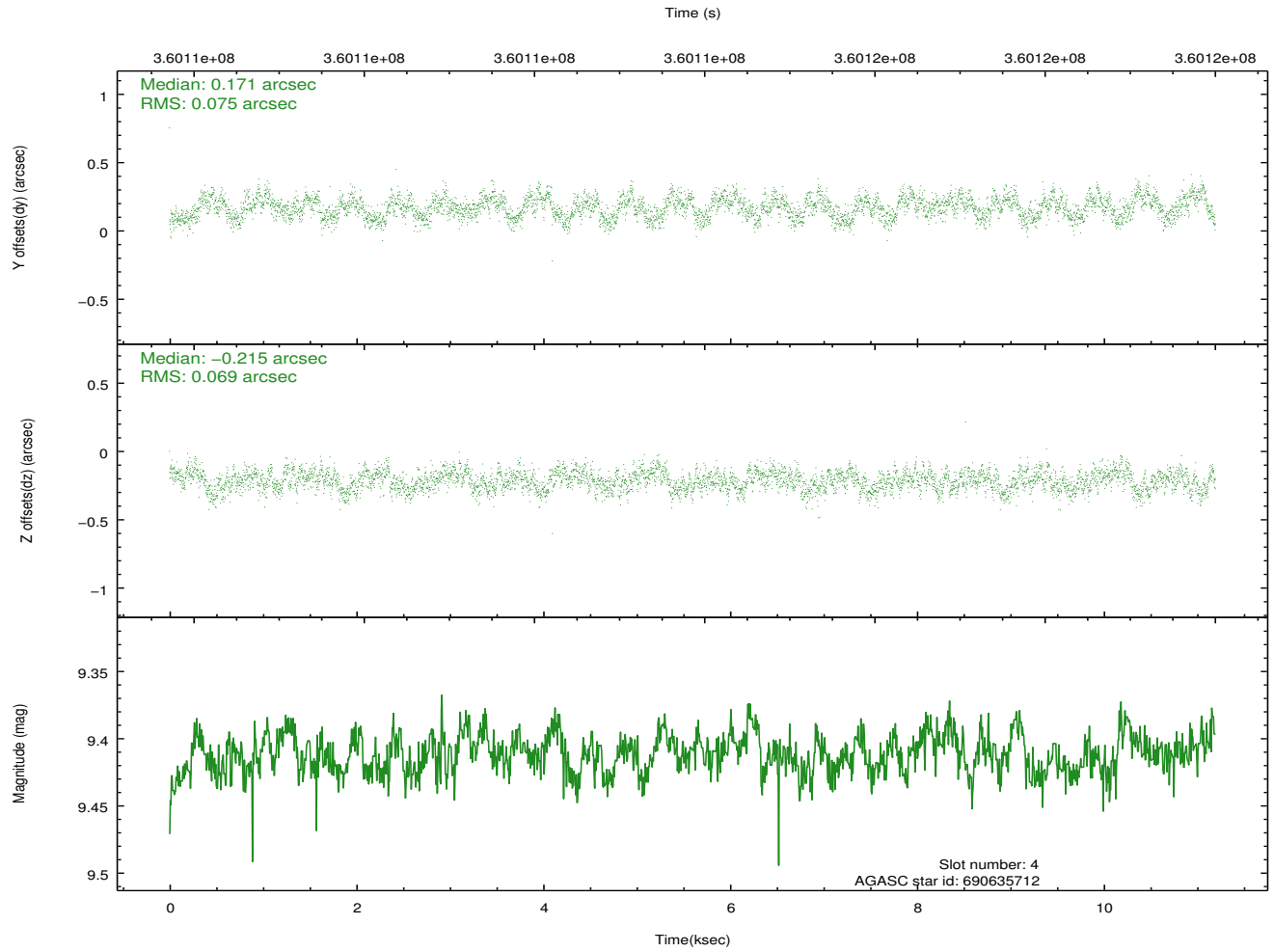
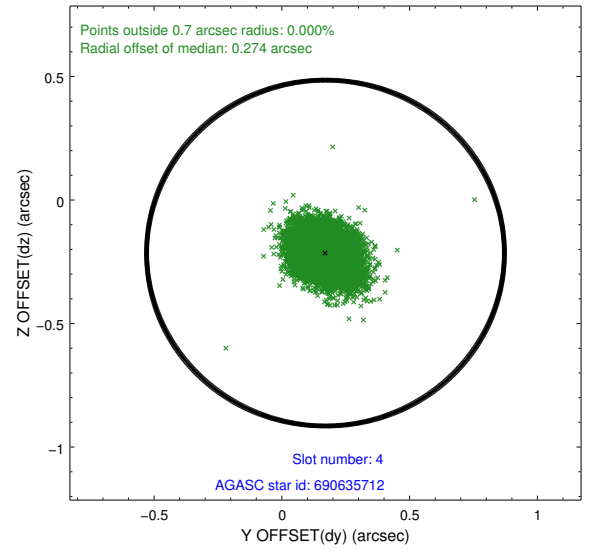
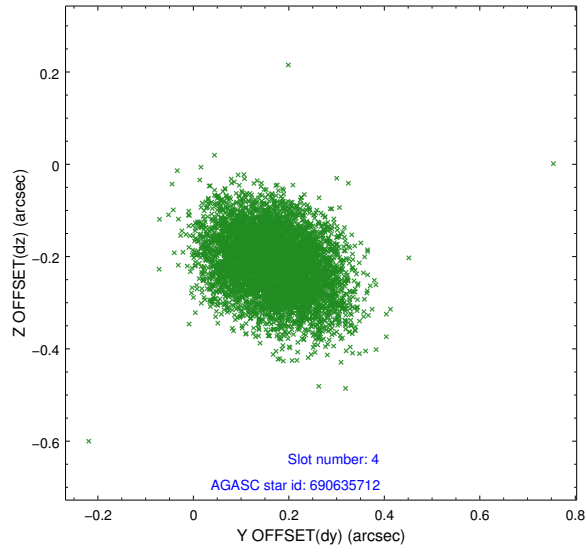
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	6.99	2731	0.037	-0.005	0.008	0.014	0.000000	0.000000	923.68	-840.10
1	FID	ACIS-I-5	6.98	2731	-0.184	0.050	0.008	0.012	0.000000	0.000000	-1824.37	1057.25
2	FID	ACIS-I-6	6.99	2731	0.056	0.026	0.007	0.012	0.000000	0.000000	388.78	1702.21
3	GUIDE	690622720	8.99	5459	-0.420	0.381	0.097	0.160	11.303284	-8.162801	2175.14	-1365.54
4	GUIDE	690635712	9.41	5454	0.171	-0.215	0.109	0.170	10.993747	-9.443521	-1268.14	1891.17
5	GUIDE	690636928	9.25	5437	0.243	-0.278	0.109	0.179	11.054156	-9.568424	-1765.14	1930.12
6	GUIDE	690768160	8.92	5456	-0.196	0.165	0.107	0.173	11.554498	-8.331592	1201.15	-1836.43
7	GUIDE	690623192	8.92	5456	0.214	-0.063	0.077	0.125	11.363175	-9.544394	-2238.07	935.57

2.4 Star Slots

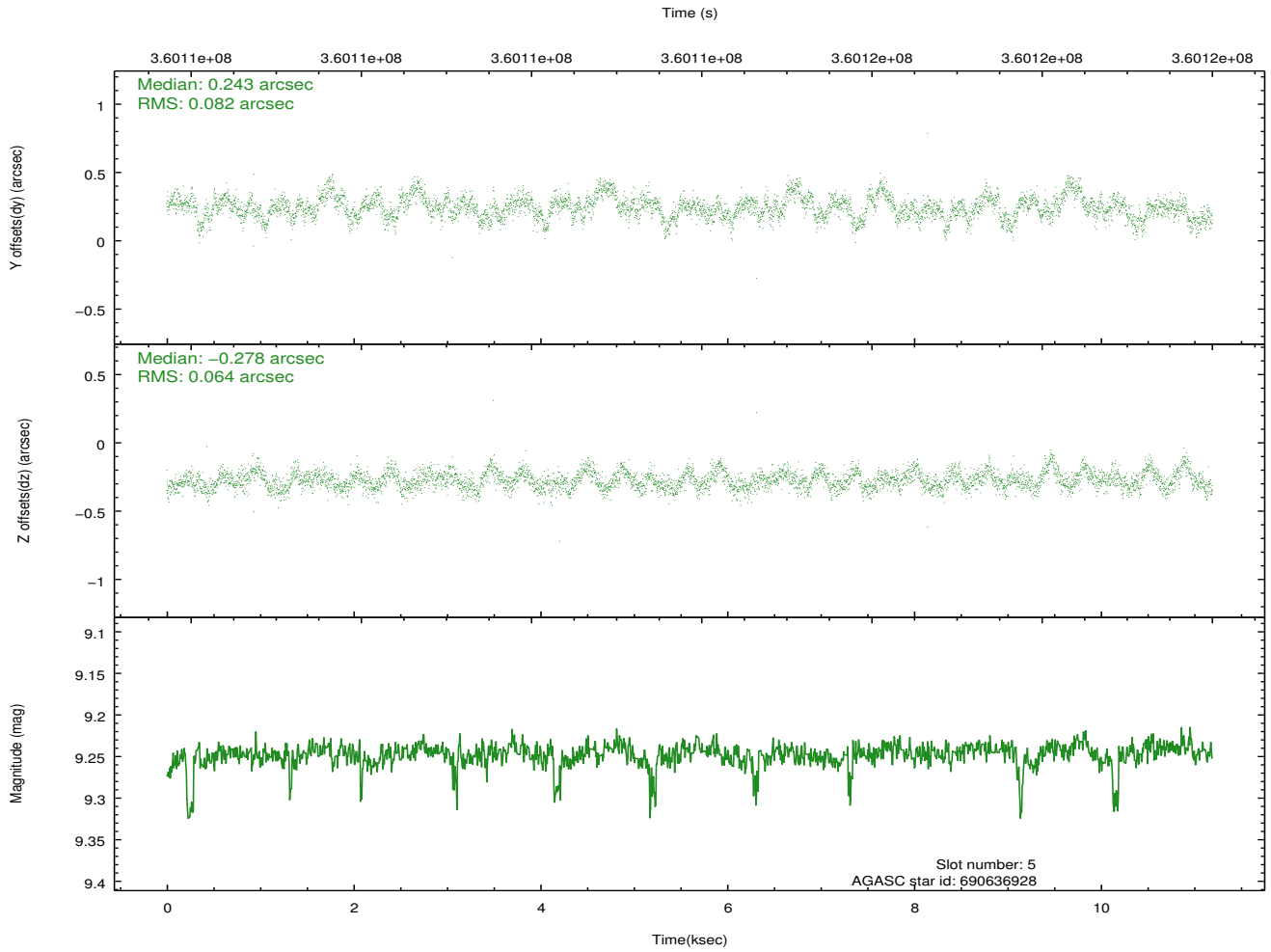
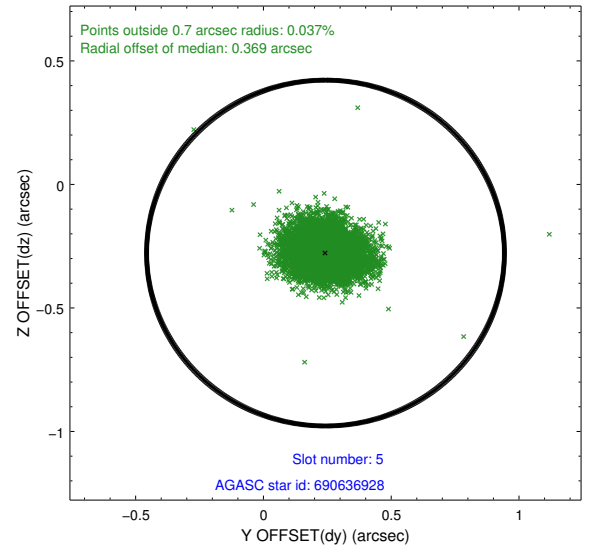
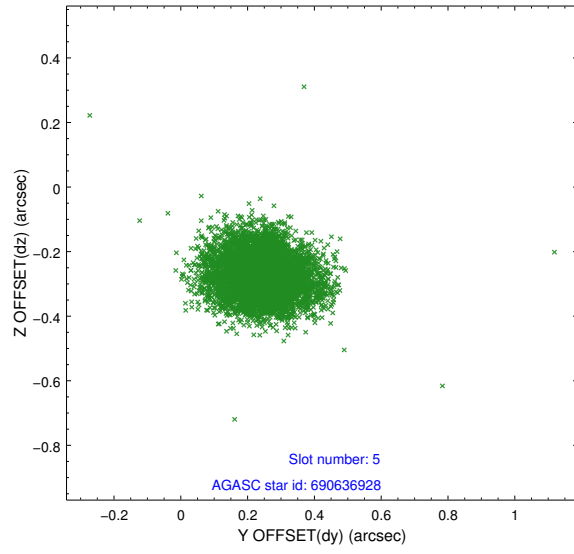
2.4.1 Slot 3



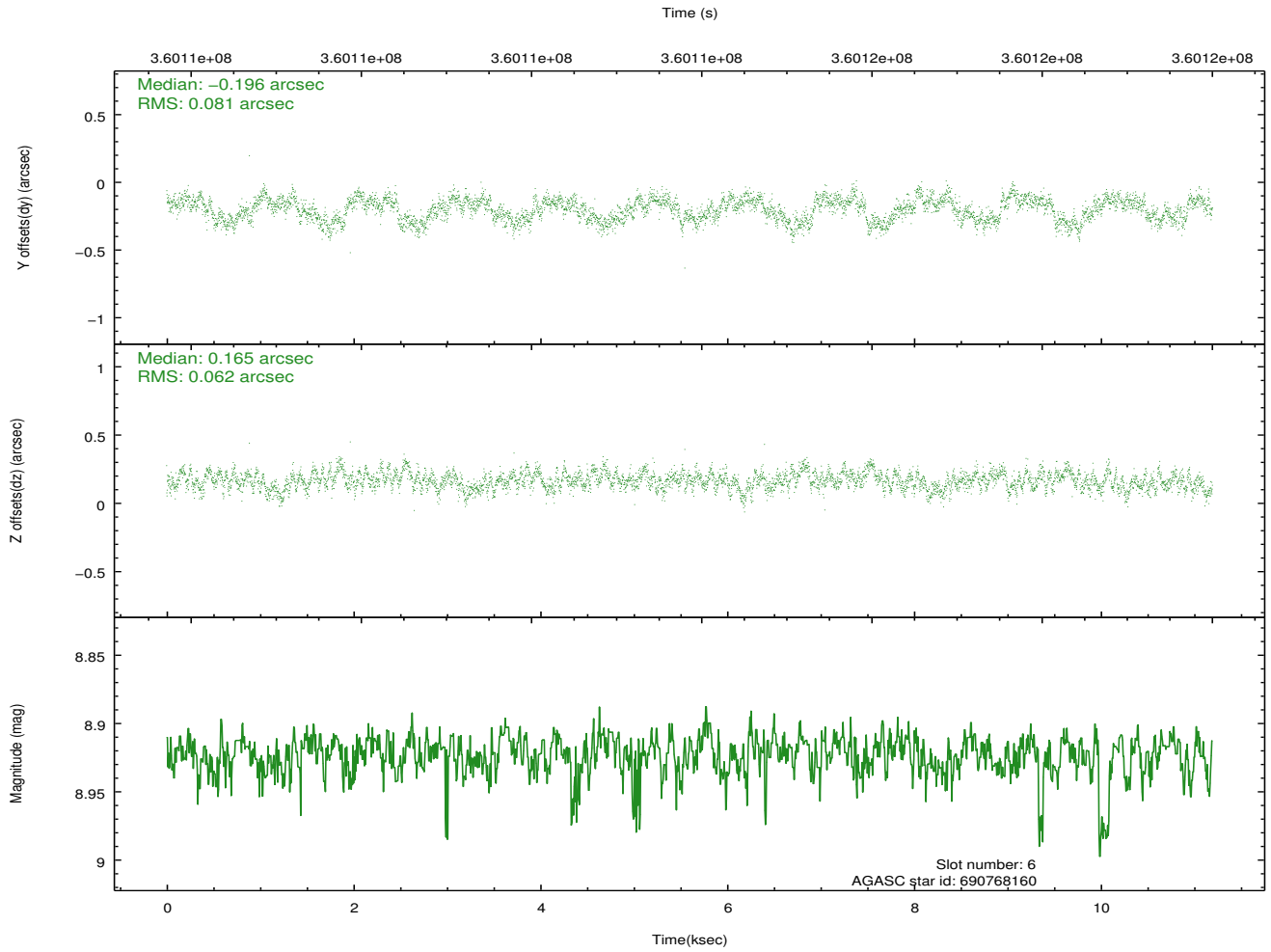
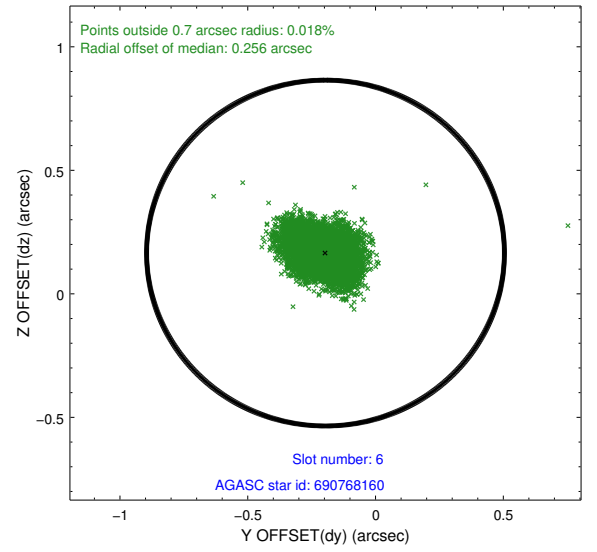
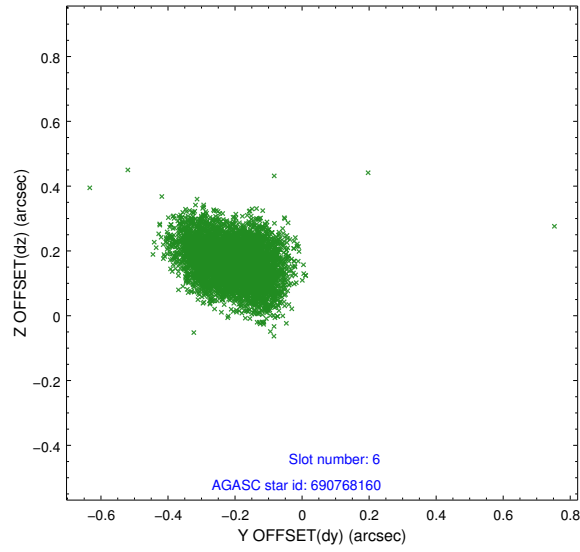
2.4.2 Slot 4



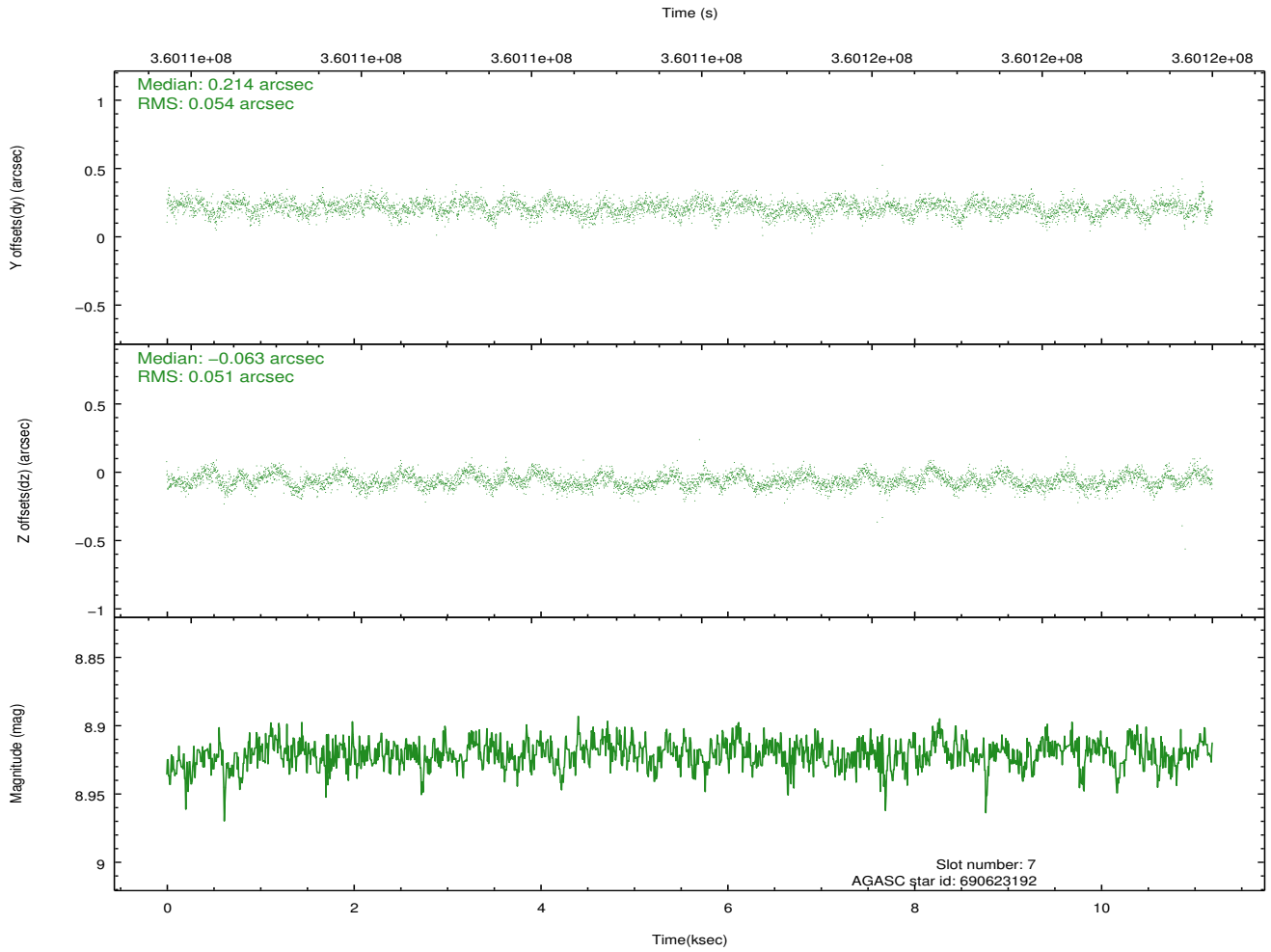
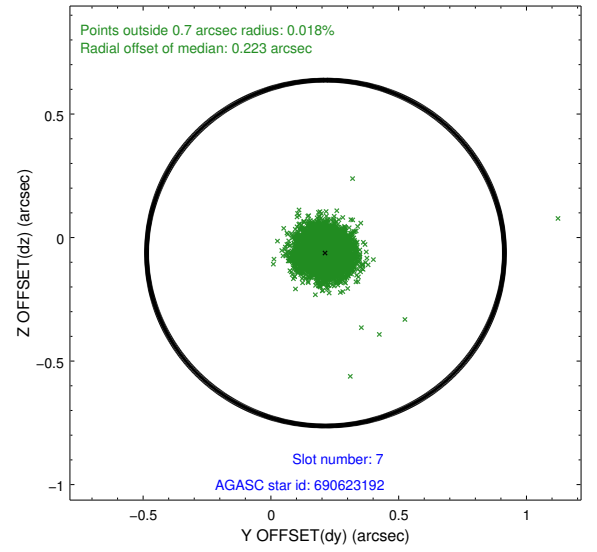
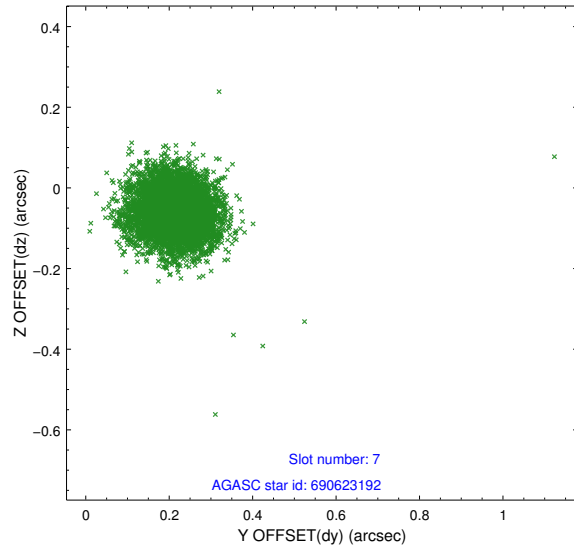
2.4.3 Slot 5



2.4.4 Slot 6

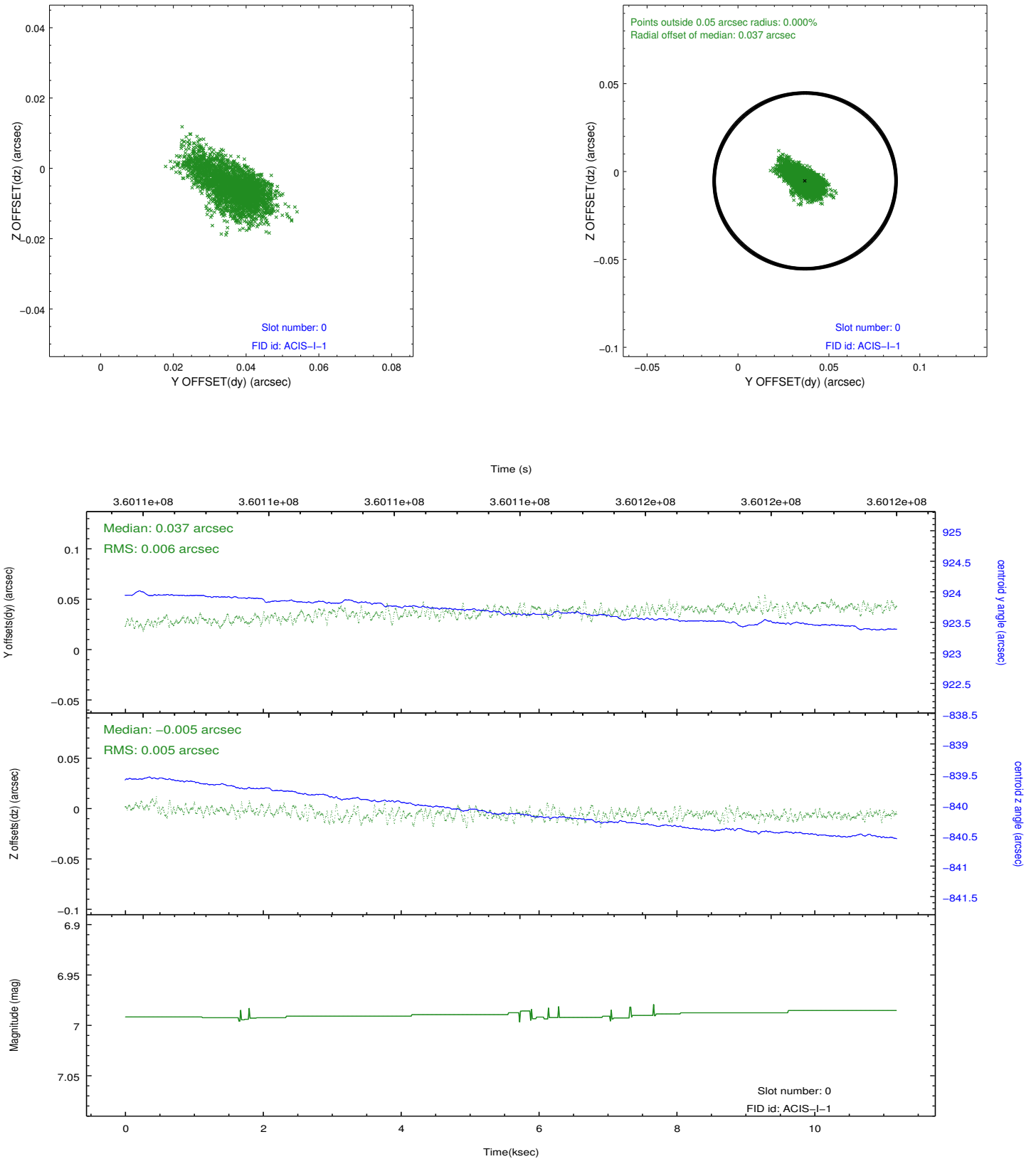


2.4.5 Slot 7

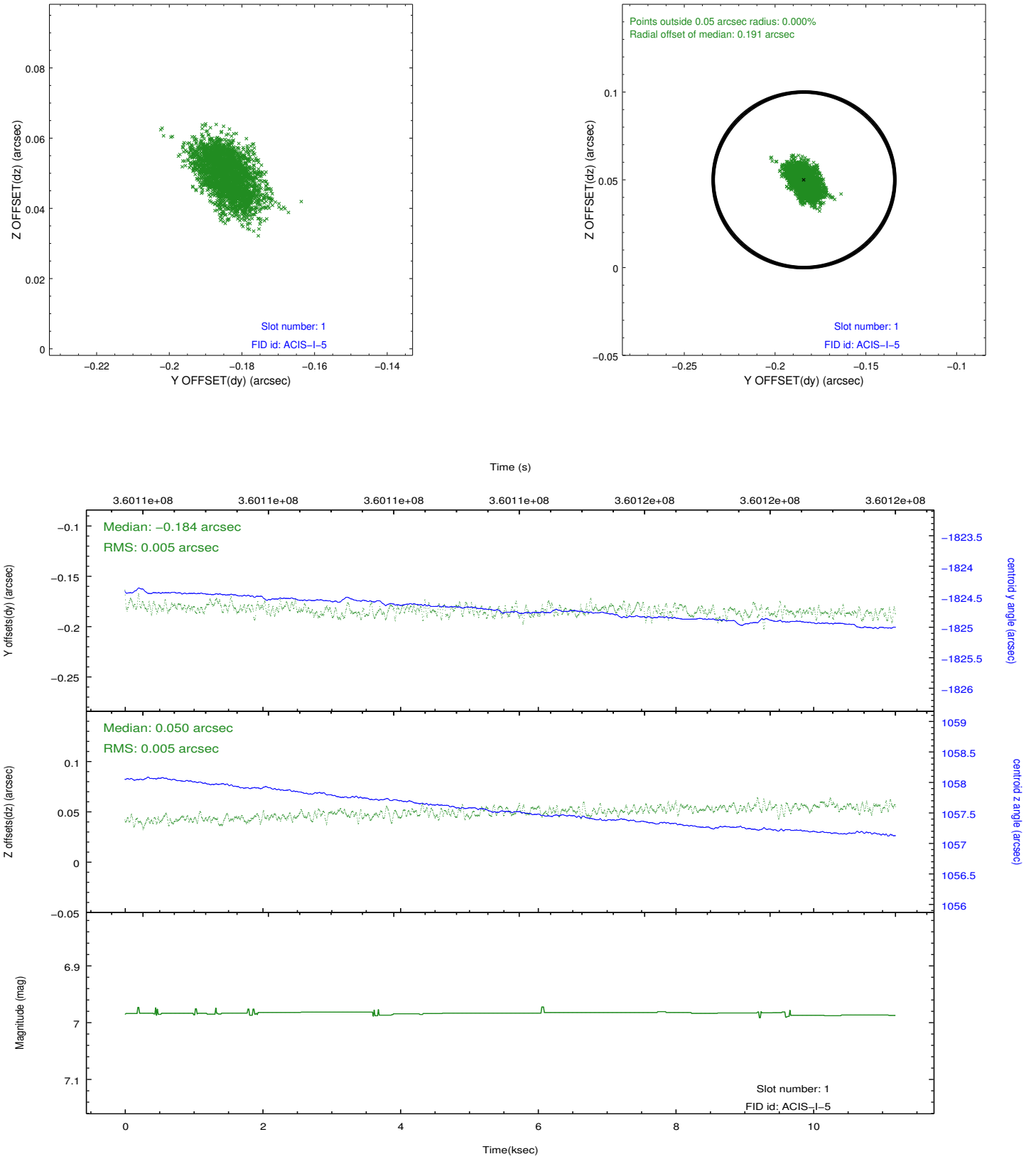


2.5 FID Slots

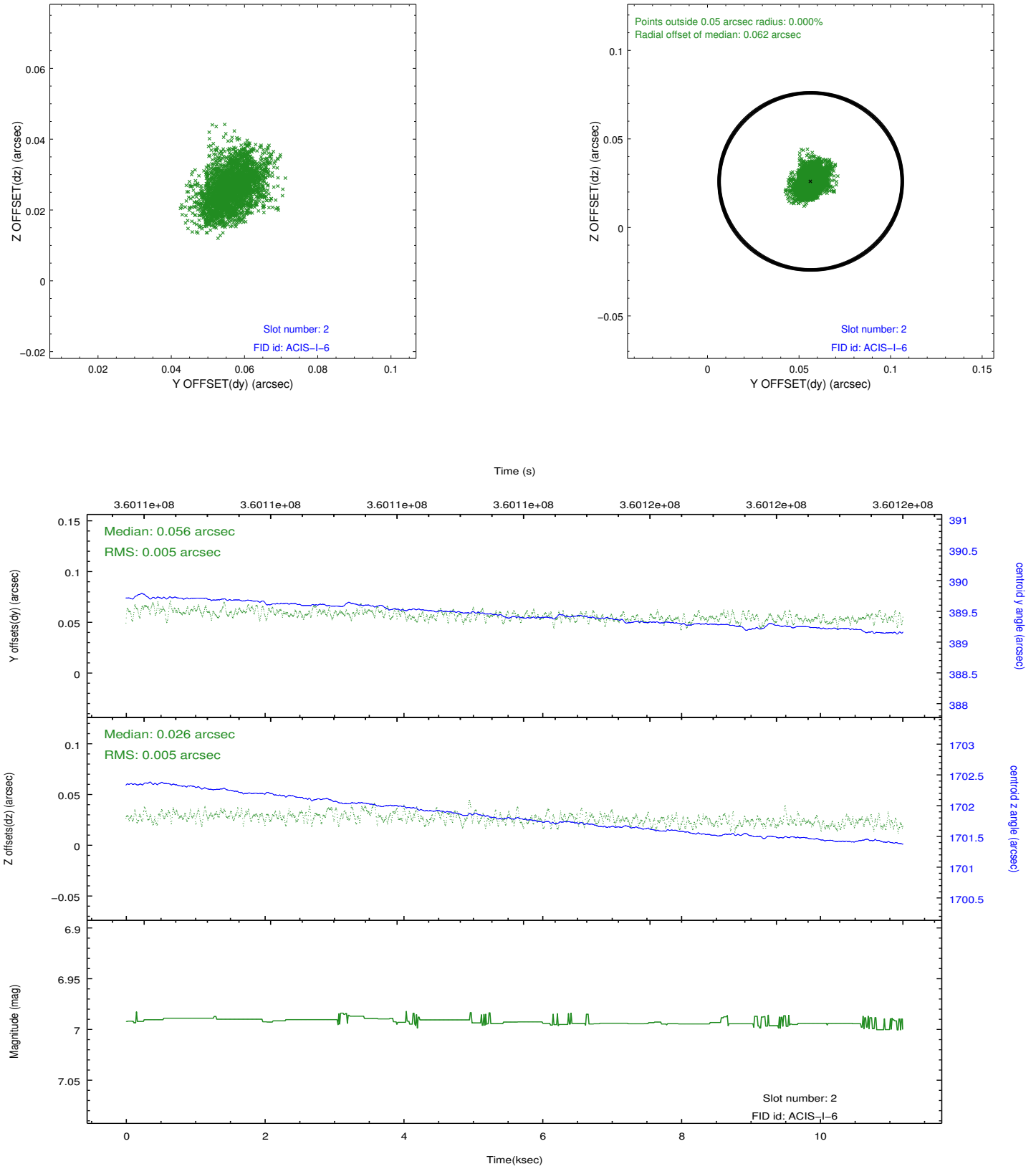
2.5.1 Slot 0



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)	2012.06.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.0415999

A.2 Comments

Joint Proposal: CX0-HST

=====

A spatial region of the original bias map for CCD = 0 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 0 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:
(11.29995,-8.67058),(11.29720,-8.67215),(11.32781,-8.72412),(11.33055,-8.72255)