

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 18440 - L2 Version 2
Chandra X-Ray Center

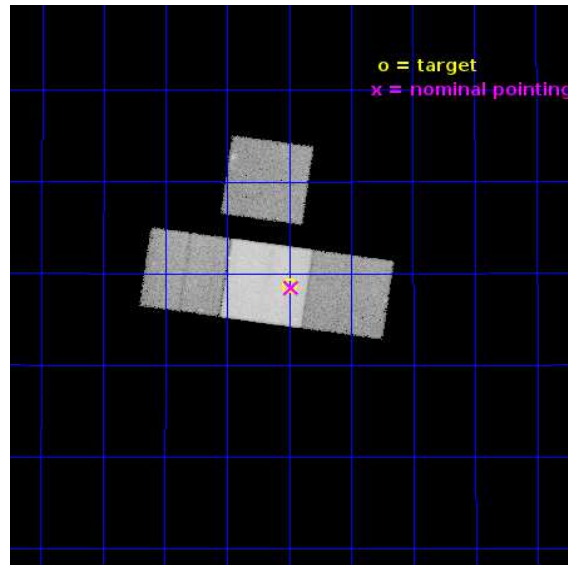
L2 Processing Date : Sep 18 2015

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1 Front

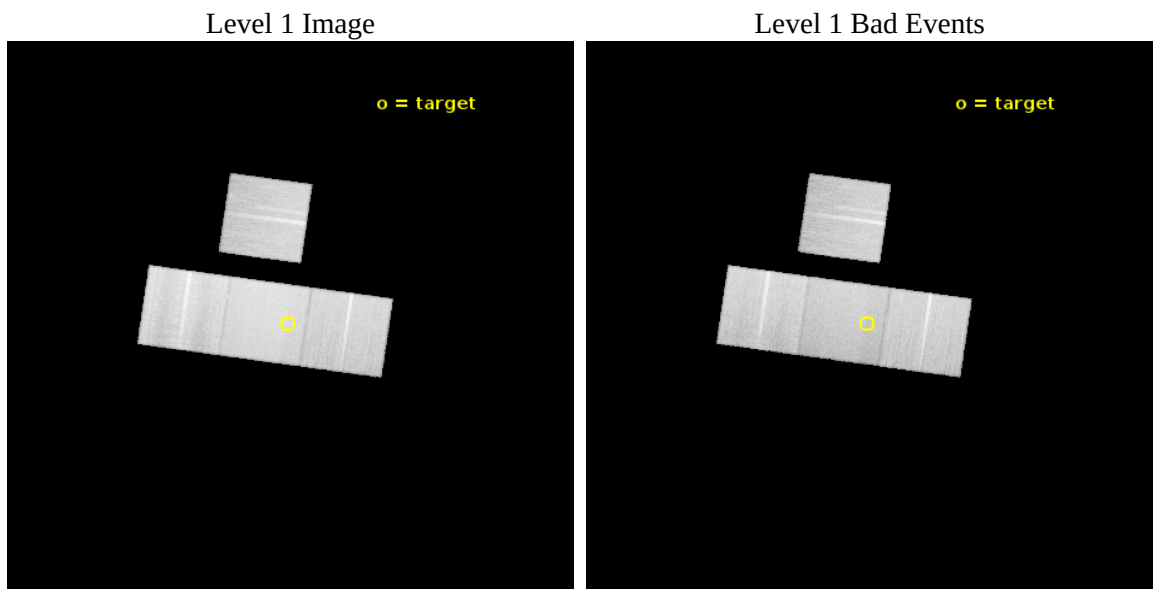
seq_num	601200	Sequence number
obs_id	18440	Observation id
title	Does the IMF vary with galaxy mass? The X-ray binary population of a key galaxy, NGC7457	Proposal title
observer	Dr Mark Peacock	Principal investigator
object	NGC 7457	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	345.249583	Observer's specified target RA [deg]
dec_targ	30.145	Observer's specified target Dec [deg]
ra_nom	345.24531301159	Nominal RA [deg]
dec_nom	30.141000832262	Nominal Dec [deg]
roll_nom	188.15876531321	Nominal Roll [deg]
revision	2	Processing version of data
ontime	51655.300397396	Sum of GTIs [s]
livetime	50980.385869625	Livetime [s]
ontime3	51655.300397396	Sum of GTIs [s]
ontime6	51655.300397396	Sum of GTIs [s]
ontime7	51655.300397396	Sum of GTIs [s]
ontime8	51652.159286737	Sum of GTIs [s]
l2events	249145	Number of level 2 events



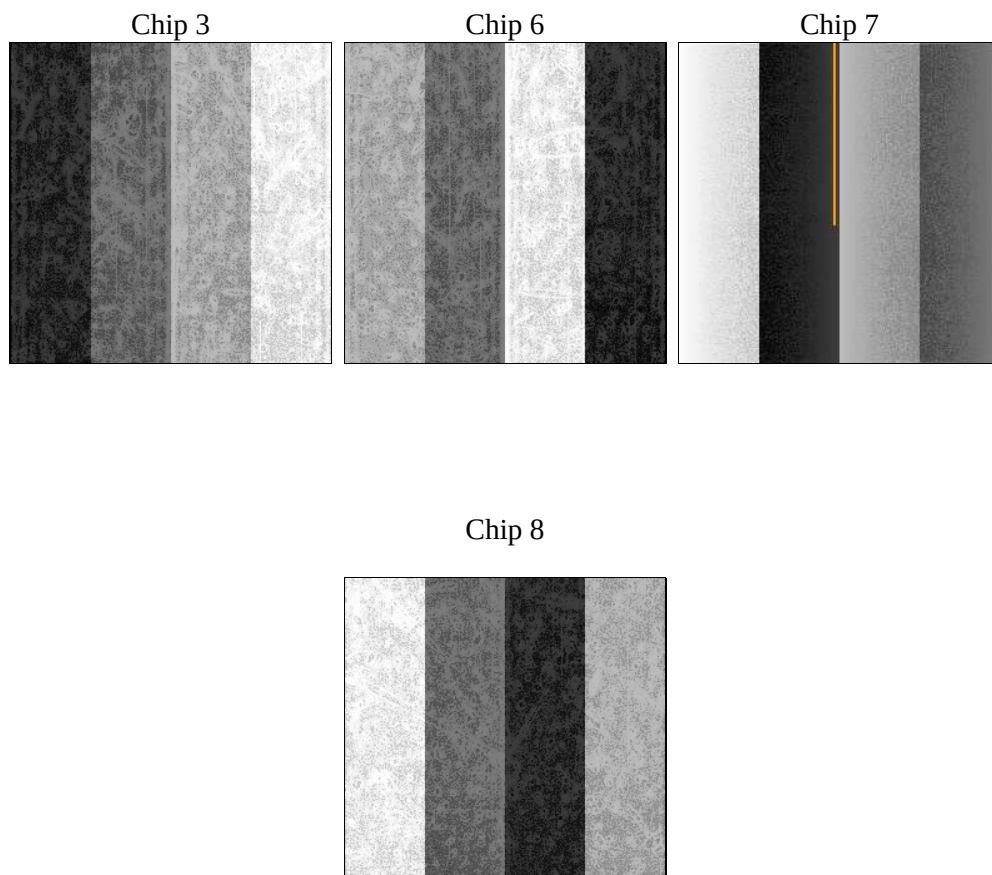
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	51585.951000	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	51655.300397396	Sum of GTIs [s]
caldsver	4.6.8	 	ontime3	51655.300397396	Sum of GTIs [s]
date	2015-09-18T19:04:29	Date and time of file creation	ontime6	51655.300397396	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	51655.300397396	Sum of GTIs [s]
			ontime8	51652.159286737	Sum of GTIs [s]
			l1events	1289135	Number of level 1 events

2.1.4 Events

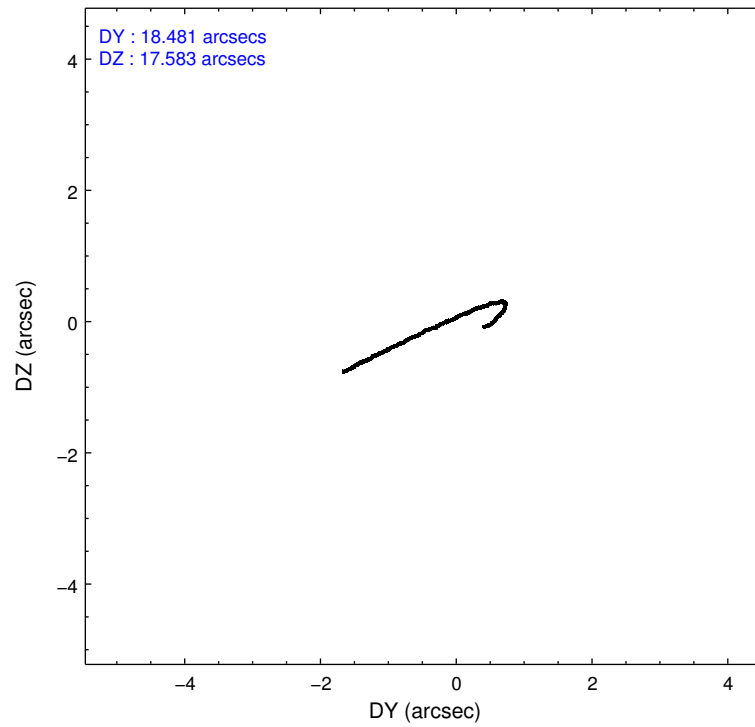
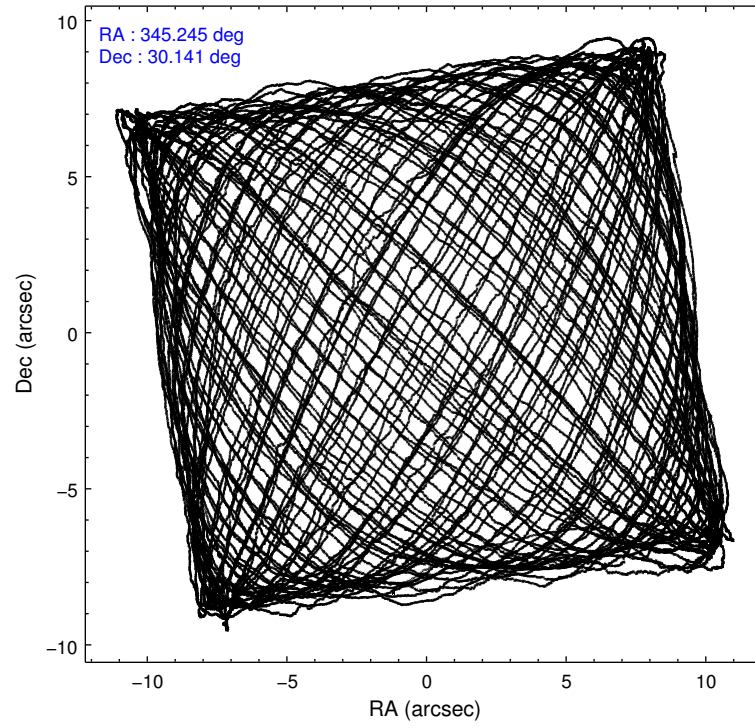
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	273487	287975	369979	357694
rejected events	242062	253162	211083	266372
rejected %	88%	87%	57%	74%

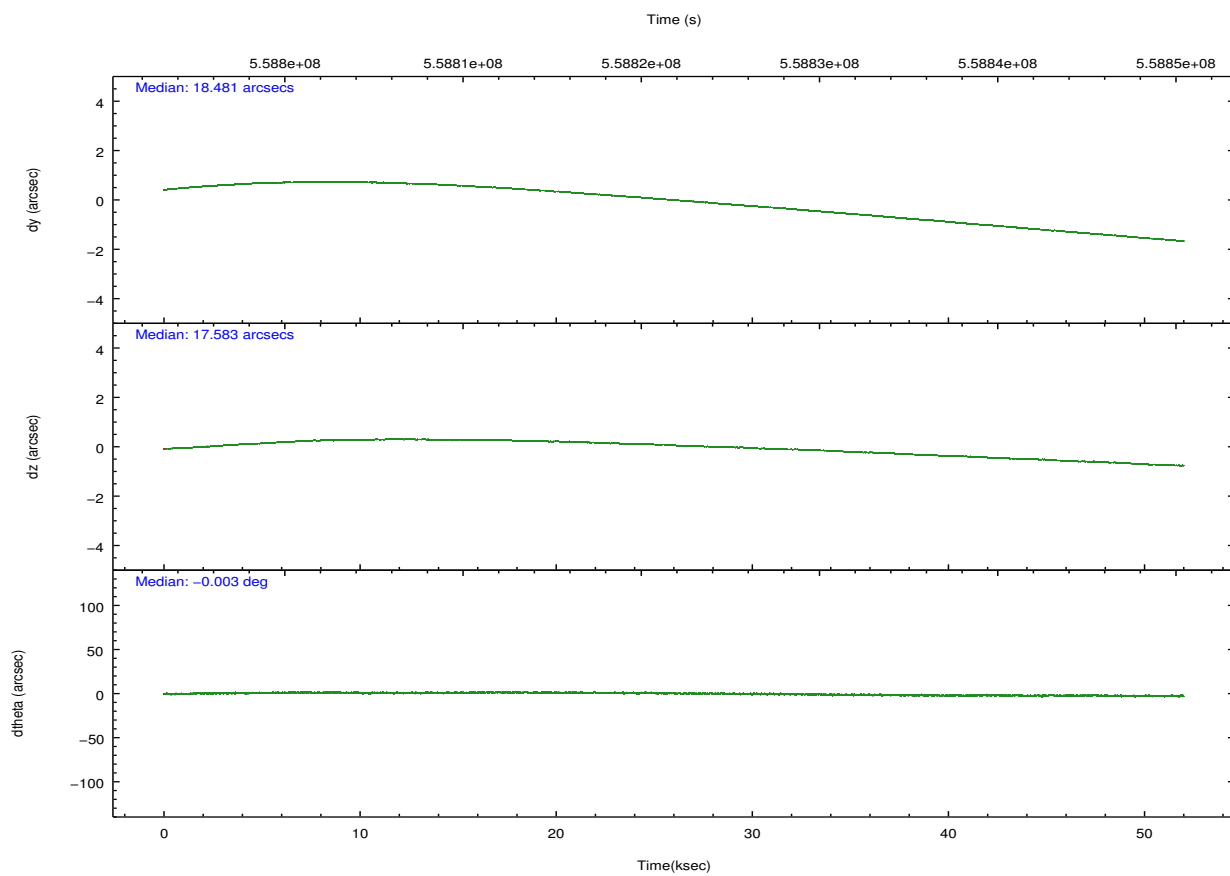
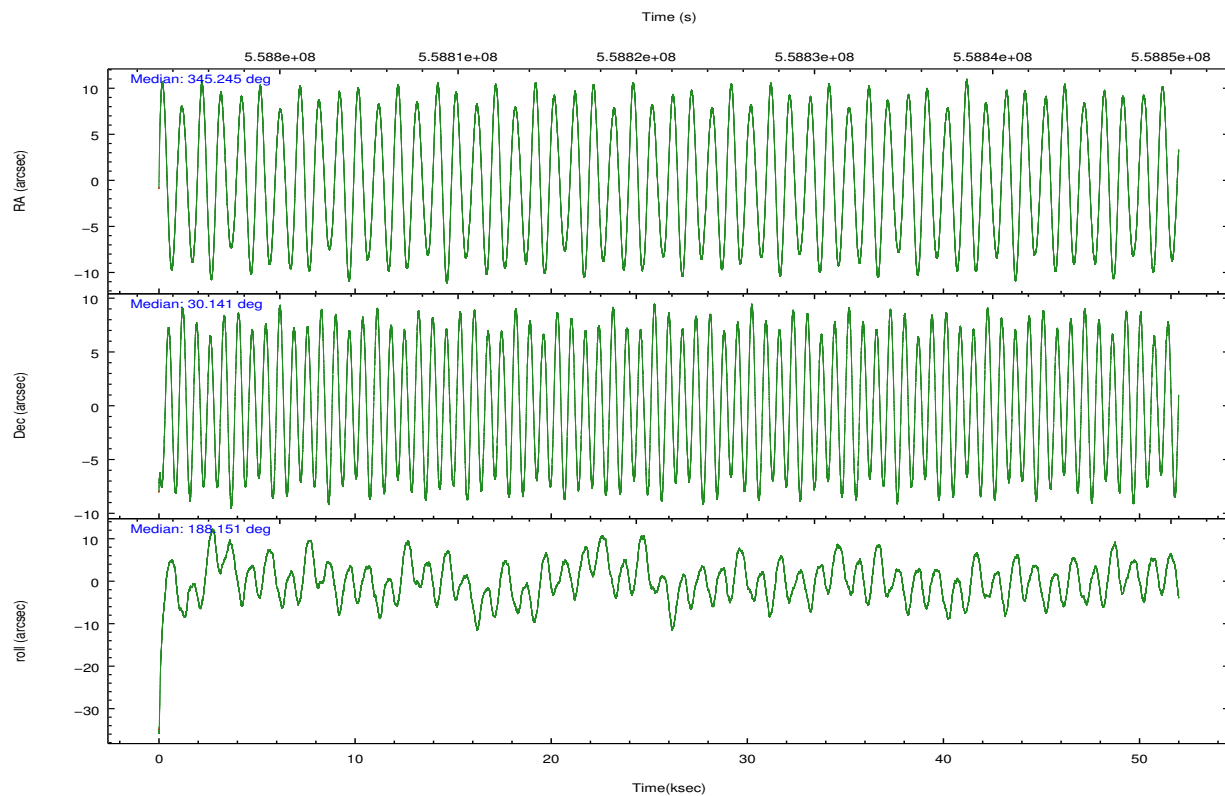
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	11343	11117	13511	25922
	4%	3%	3%	7%
grade 1 events	149	123	395	276
	0%	0%	0%	0%
grade 2 events	6555	8420	33479	22182
	2%	2%	9%	6%
grade 3 events	3306	3177	12173	9415
	1%	1%	3%	2%
grade 4 events	3199	2993	11794	8692
	1%	1%	3%	2%
grade 5 events	13731	13065	34876	20040
	5%	4%	9%	5%
grade 6 events	7027	9108	87962	25114
	2%	3%	23%	7%
grade 7 events	228177	239972	175789	246053
	83%	83%	47%	68%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	345.270009	345.2453130115895	CCD I2 on	N	N
[deg] Pointing Dec	30.158246	30.1410008322616	CCD I3 on	O1	Y
[deg] Pointing Roll	187.989743	188.1587653132074	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	O2	Y
[s] Observation start time (MET)	558796250.184000	558795256.43007	CCD S5 on	N	N
Observation start date	2015-09-16T13:09:42	2015-09-16T12:54:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	558847836.184000	558848058.79555	On-chip summing requested	N	N
Observation end date	2015-09-17T03:29:28	2015-09-17T03:34:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



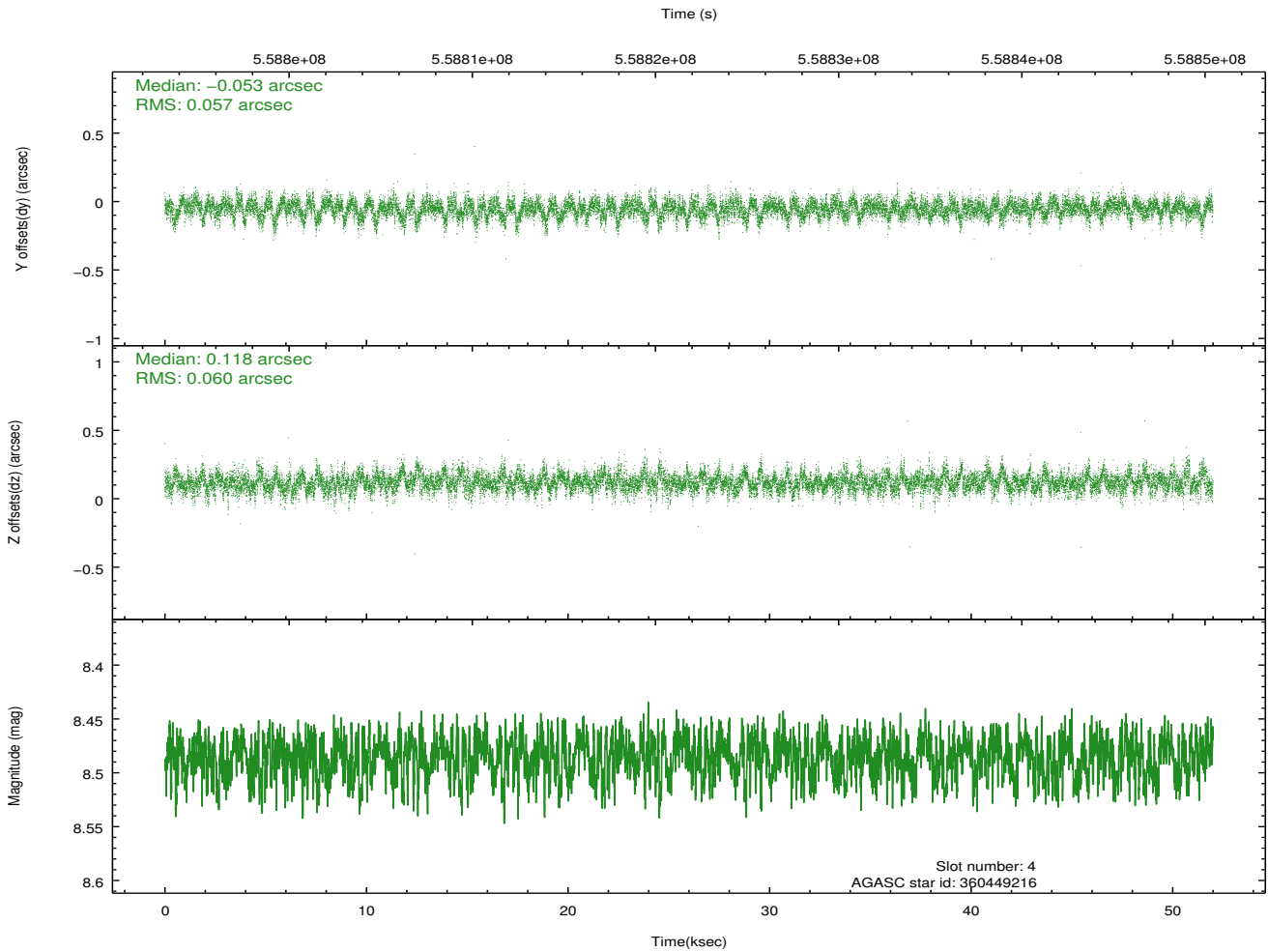
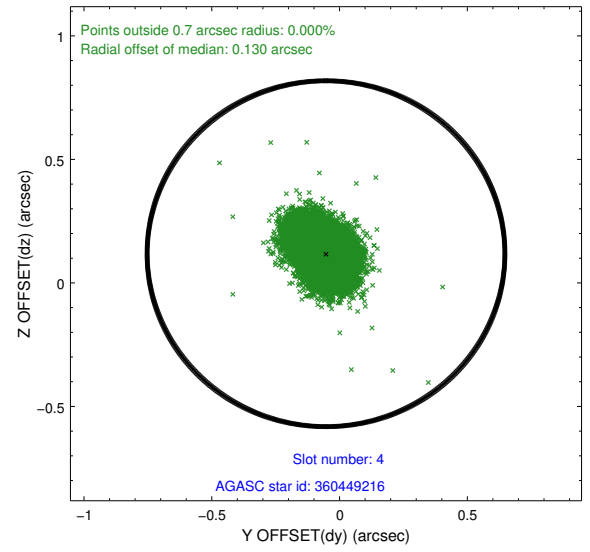
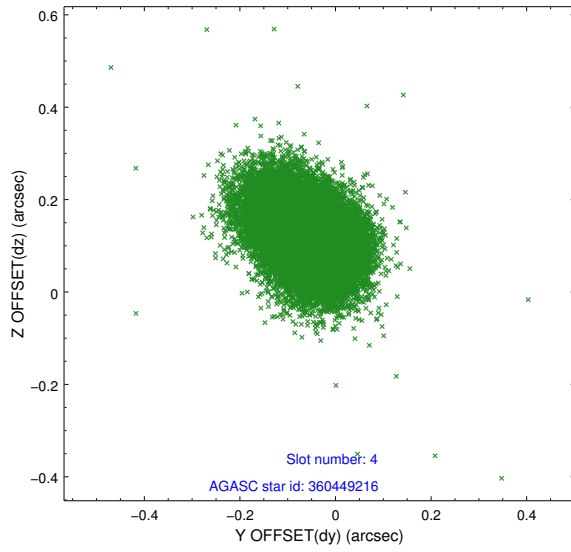


Slot Statistics

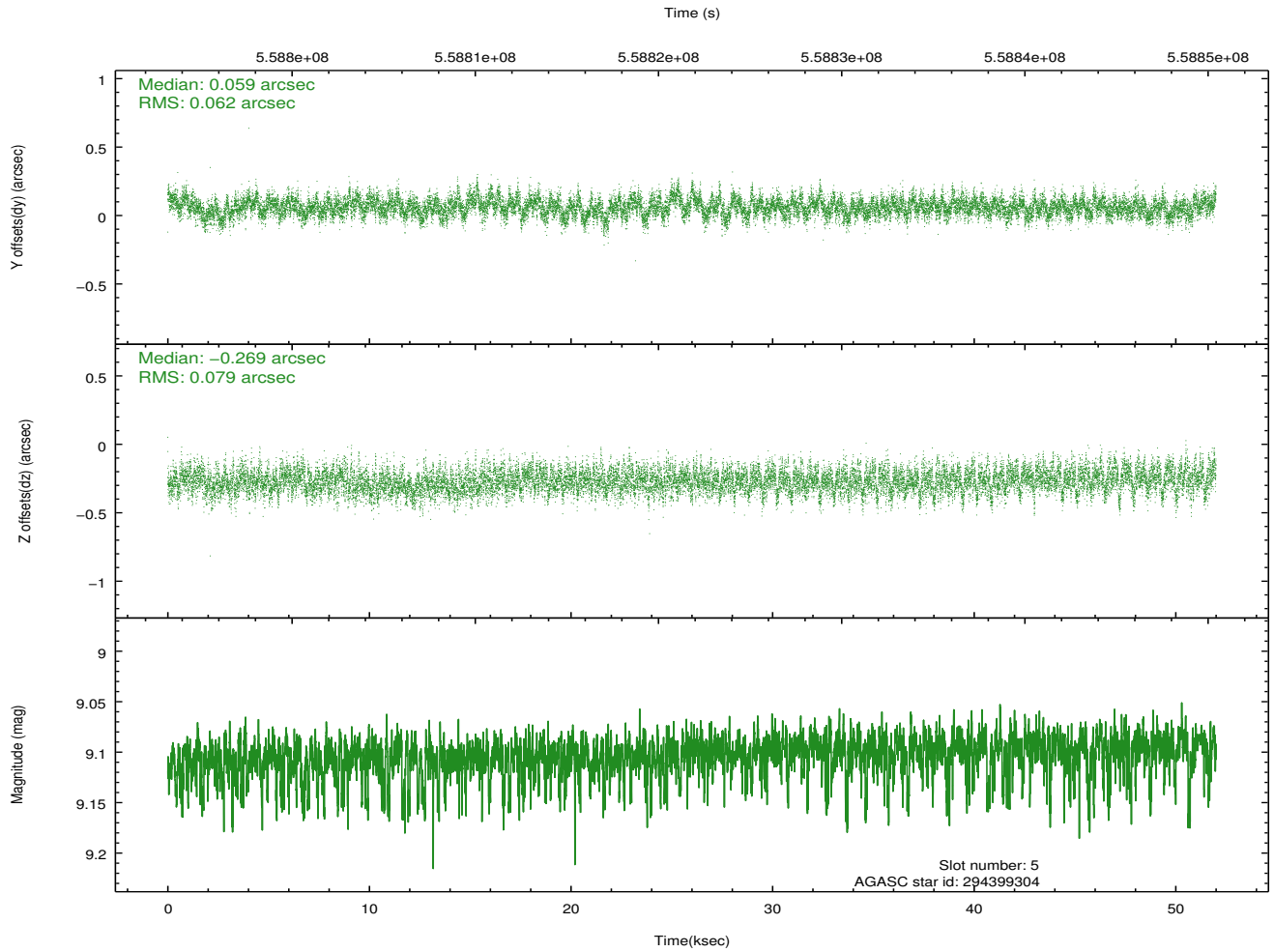
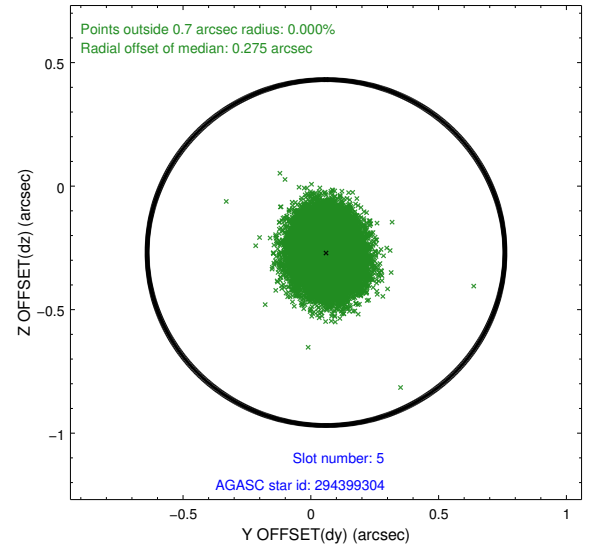
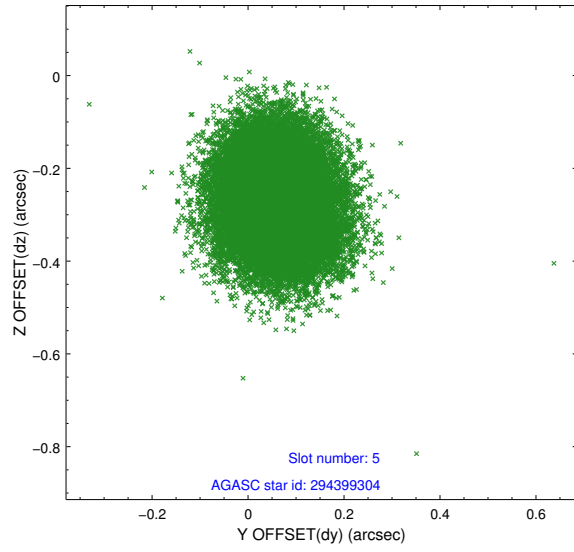
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	12682	-0.120	-0.113	0.024	0.035	0.000000	0.000000	-771.52	-1739.00
1	FID		ACIS-S-4	7.22	12683	0.373	0.088	0.024	0.036	0.000000	0.000000	2142.28	169.67
2	FID		ACIS-S-5	7.25	12683	-0.278	0.031	0.013	0.028	0.000000	0.000000	-1824.53	163.30
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	used	360449216	8.48	25362	-0.053	0.118	0.085	0.146	344.607331	30.221870	2009.29	-518.69
5	GUIDE	used	294399304	9.10	25354	0.059	-0.269	0.107	0.174	344.902322	29.451908	1494.75	2356.03
6	GUIDE	used	360463360	8.92	25352	0.038	0.109	0.113	0.182	344.479749	30.284956	2368.68	-801.17
7	GUIDE	used	360456096	9.11	25356	-0.045	0.039	0.131	0.214	344.537529	30.365373	2148.88	-1061.67

2.4 Star Slots

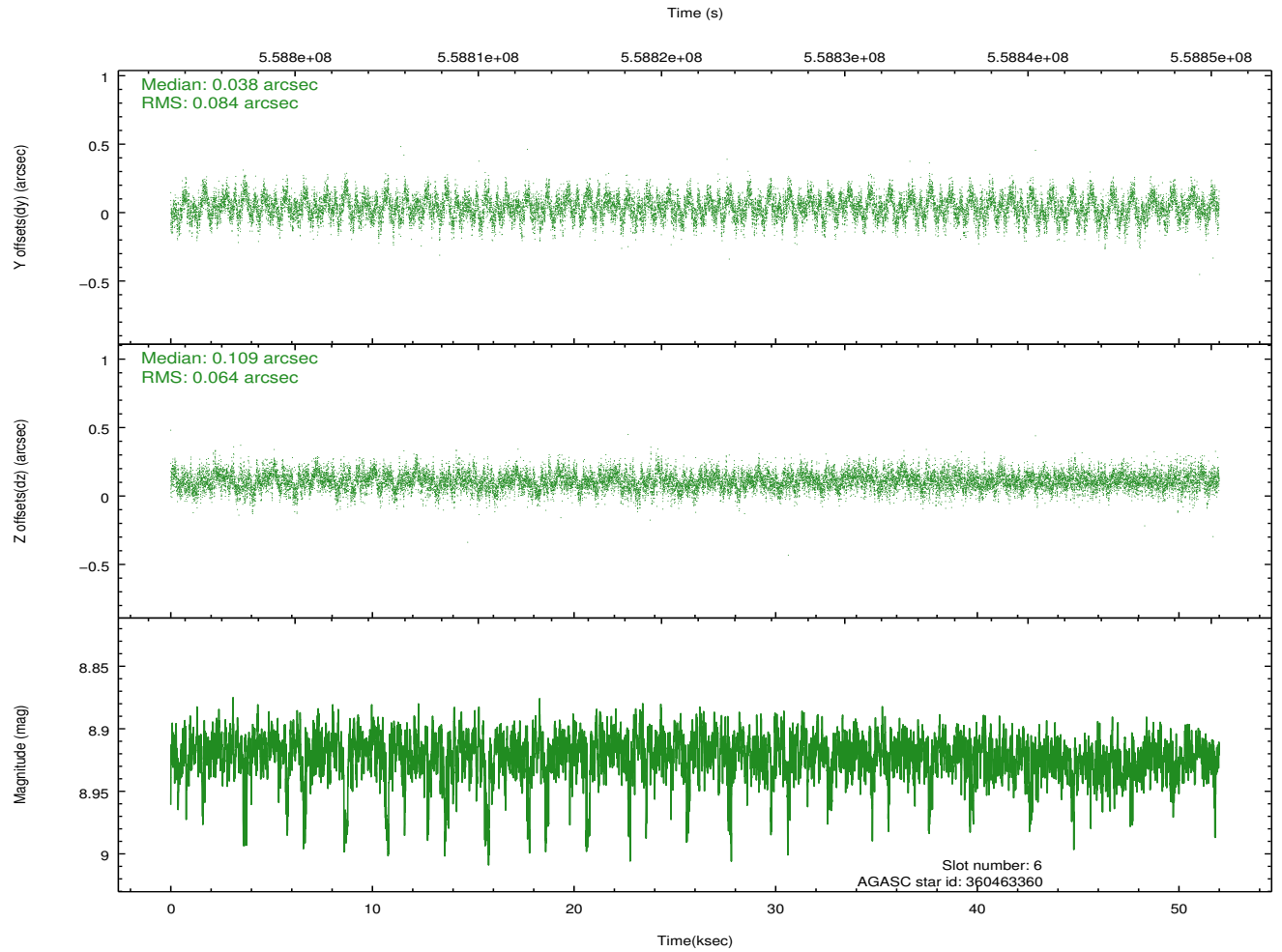
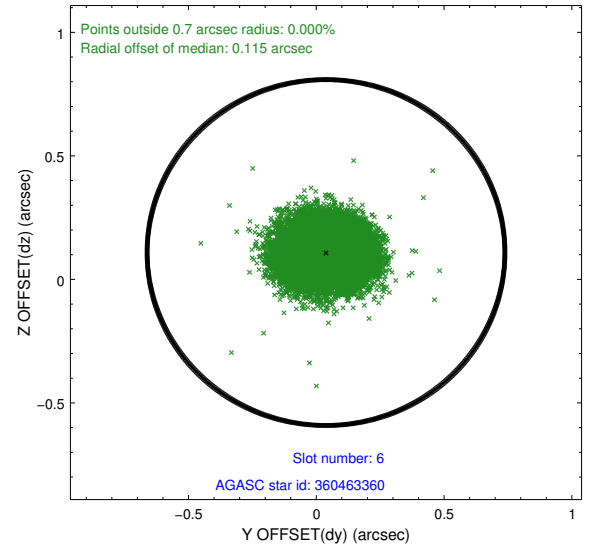
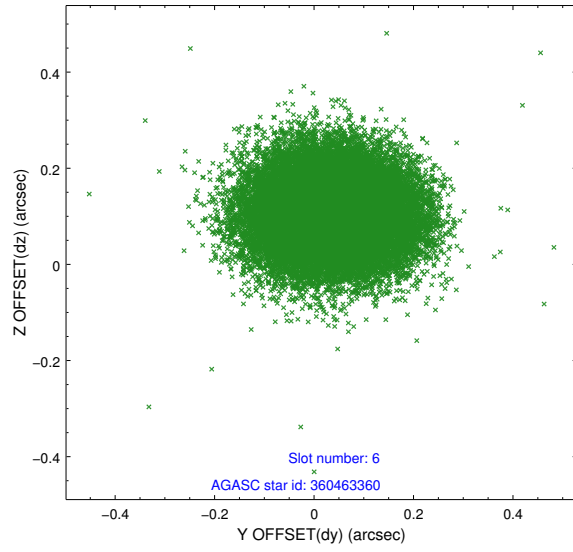
2.4.1 Slot 4



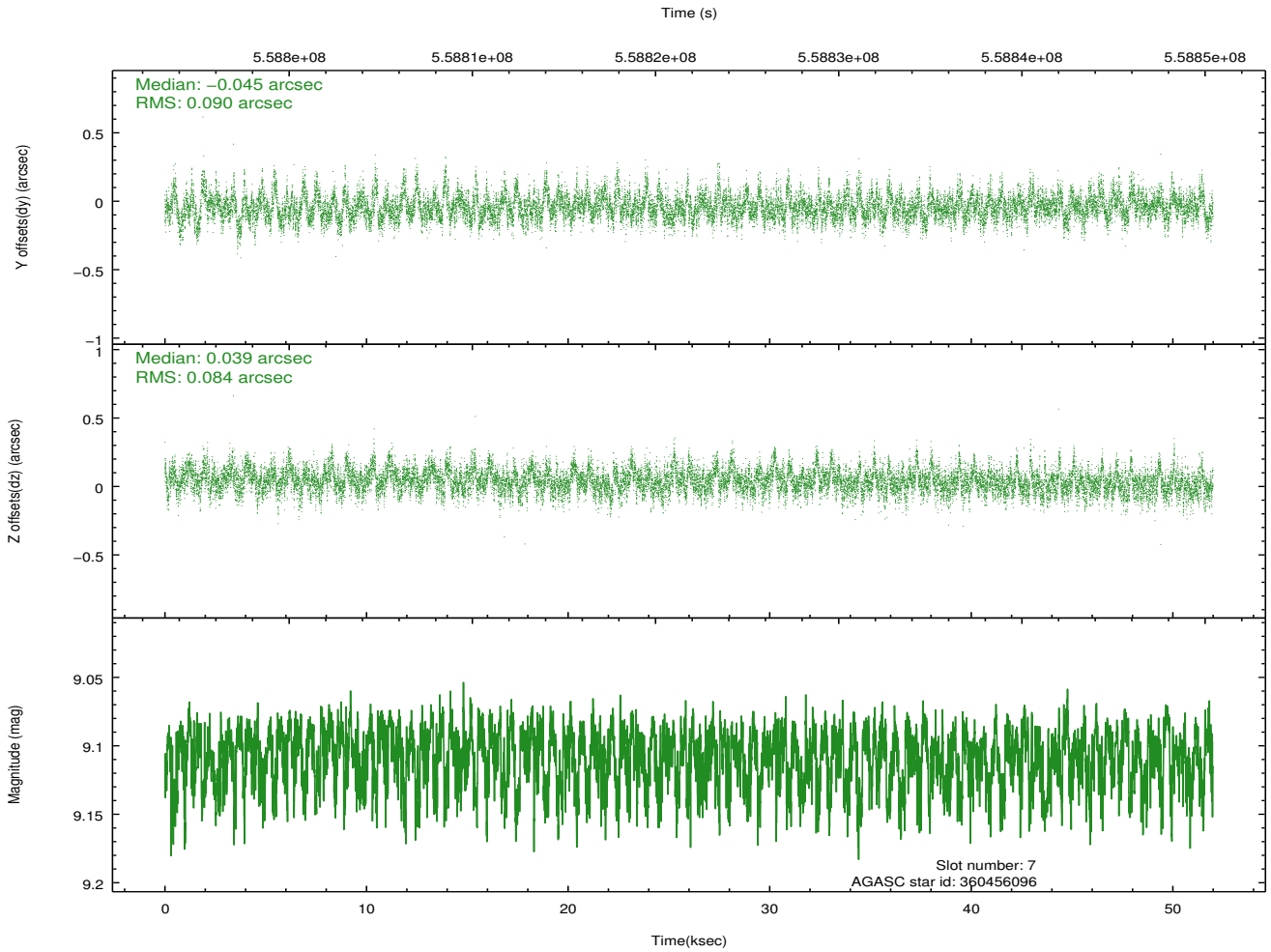
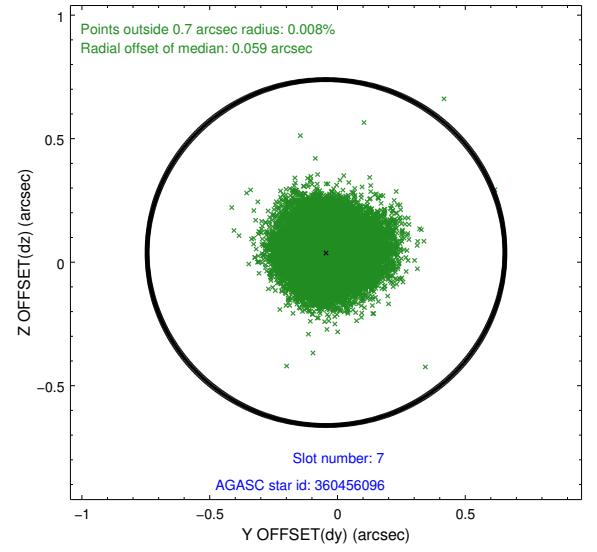
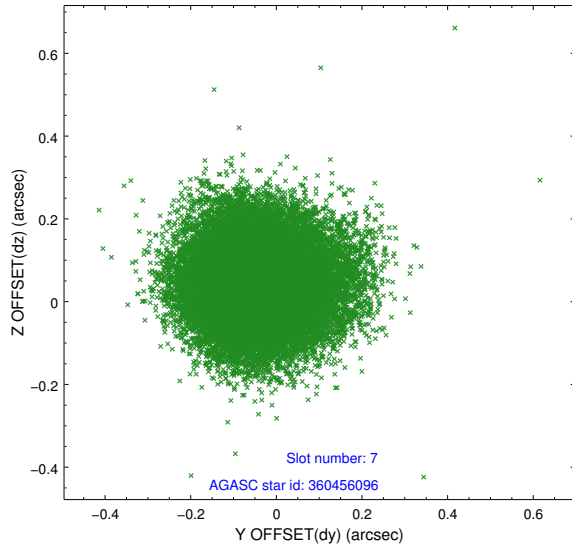
2.4.2 Slot 5



2.4.3 Slot 6

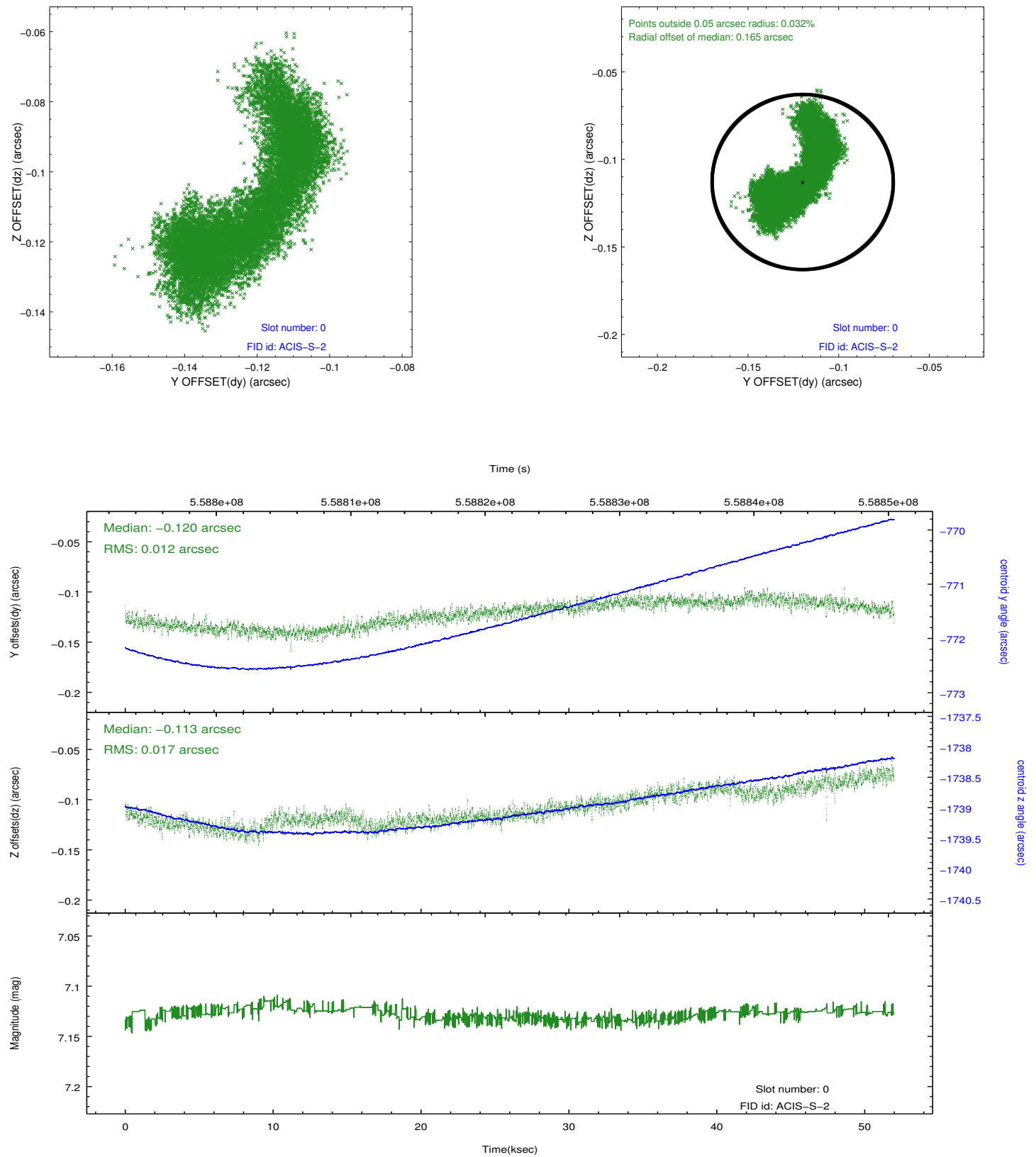


2.4.4 Slot 7

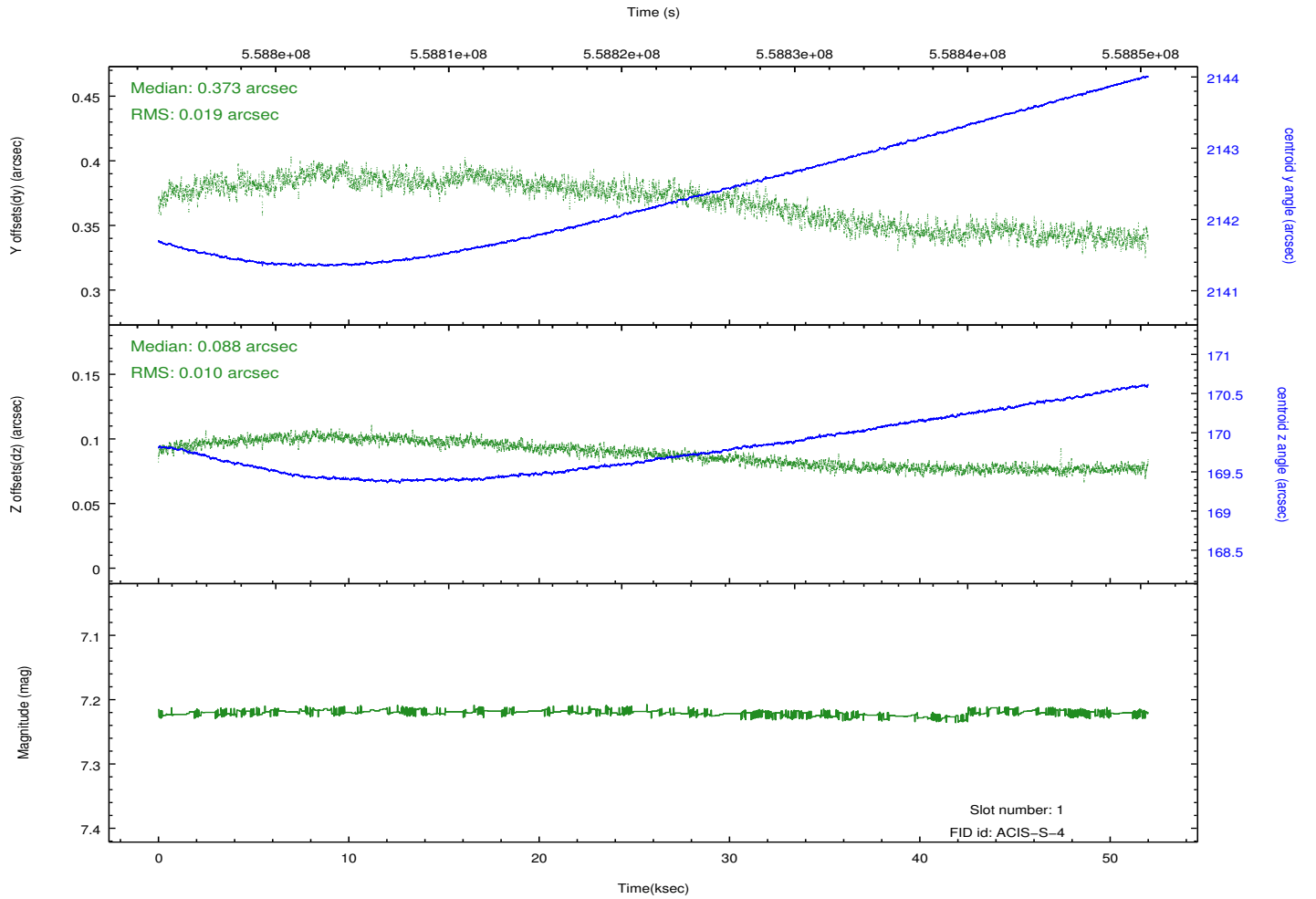
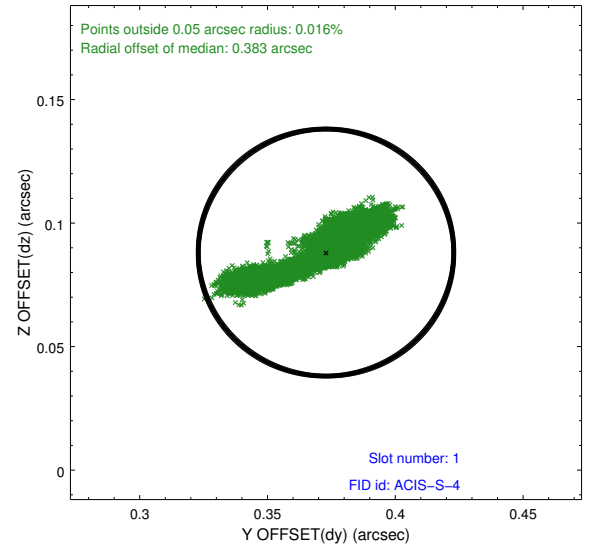
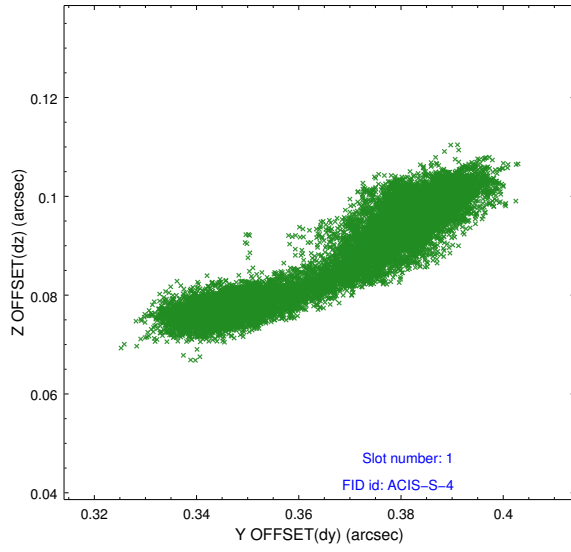


2.5 FID Slots

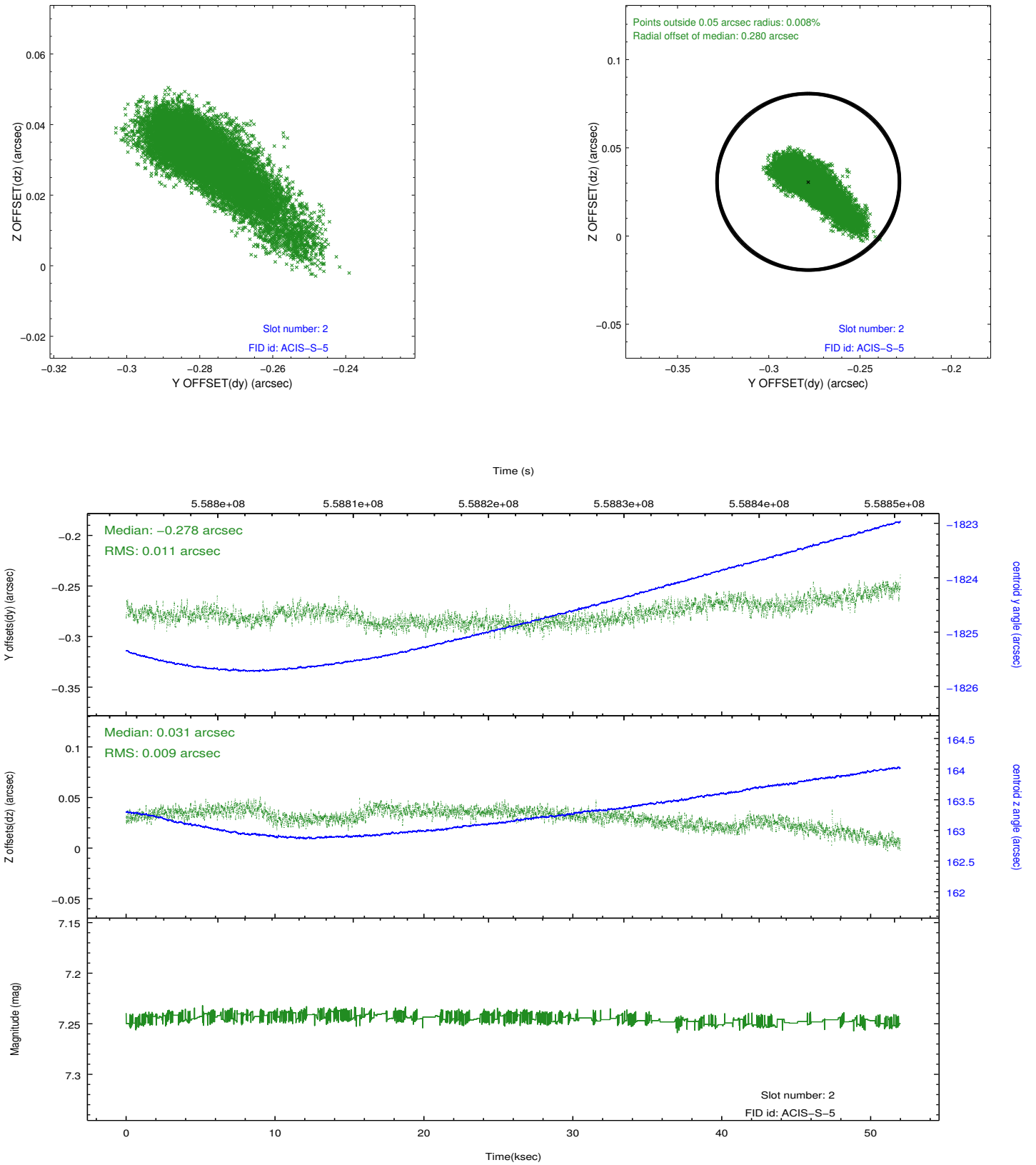
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	51.655300397396

A.2 Comments

Joint proposal with HST.

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.