

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17590 - L2 Version 1
Chandra X-Ray Center

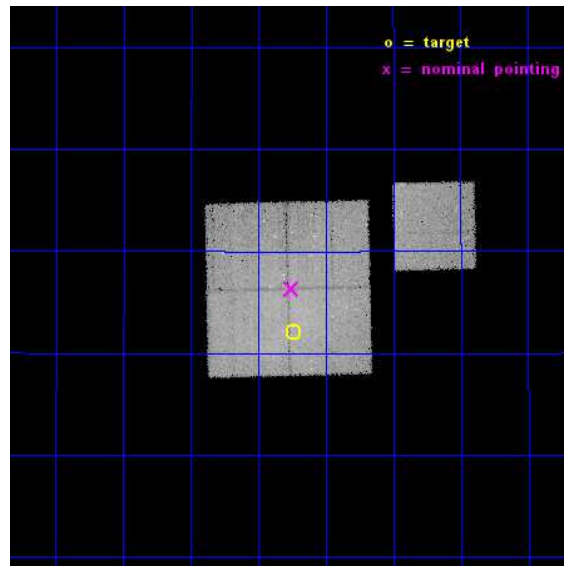
L2 Processing Date : Feb 1 2015

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

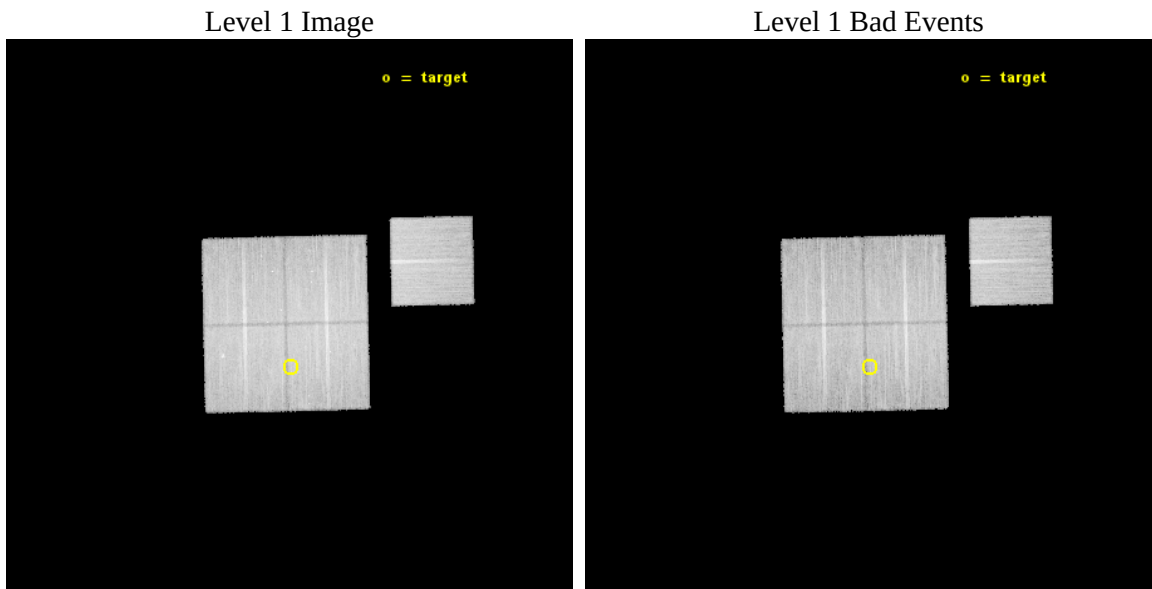
seq_num	801481	Sequence number
obs_id	17590	Observation id
title	Probing the Physics of the ICM in the Dynamically Young Cluster A1367	Proposal title
observer	Dr. William Forman	Principal investigator
object	Abell 1367	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	176.185	Observer's specified target RA [deg]
dec_targ	19.701111	Observer's specified target Dec [deg]
ra_nom	176.18875906798	Nominal RA [deg]
dec_nom	19.772186560884	Nominal Dec [deg]
roll_nom	88.707419031286	Nominal Roll [deg]
revision	1	Processing version of data
ontime	37079.059225082	Sum of GTIs [s]
livetime	36594.5940191	Livetime [s]
ontime0	37082.200285316	Sum of GTIs [s]
ontime1	37079.059215188	Sum of GTIs [s]
ontime2	37082.200285316	Sum of GTIs [s]
ontime3	37079.059225082	Sum of GTIs [s]
ontime6	37075.918204784	Sum of GTIs [s]
l2events	175398	Number of level 2 events



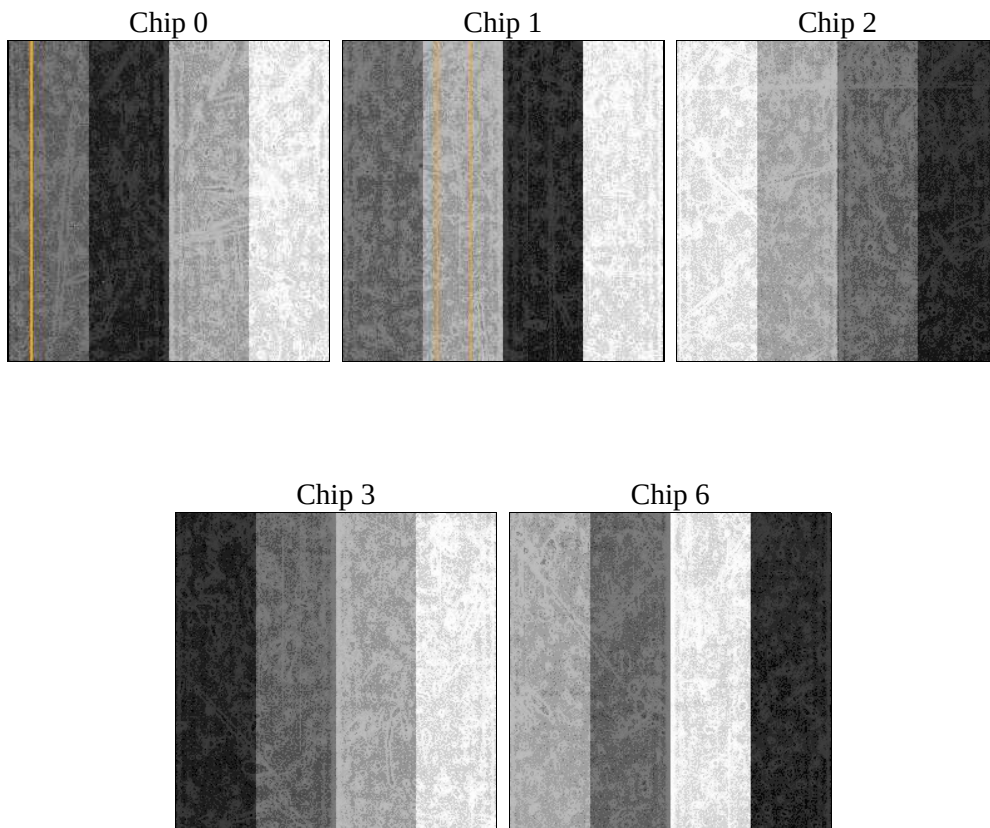
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	37000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	37079.059225082	Sum of GTIs [s]
caldsver	4.6.6	 	ontime0	37082.200285316	Sum of GTIs [s]
date	2015-02-01T22:56:08	Date and time of file creation	ontime1	37079.059215188	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	37082.200285316	Sum of GTIs [s]
			ontime3	37079.059225082	Sum of GTIs [s]
			ontime6	37075.918204784	Sum of GTIs [s]
			l1events	940888	Number of level 1 events

2.1.4 Events

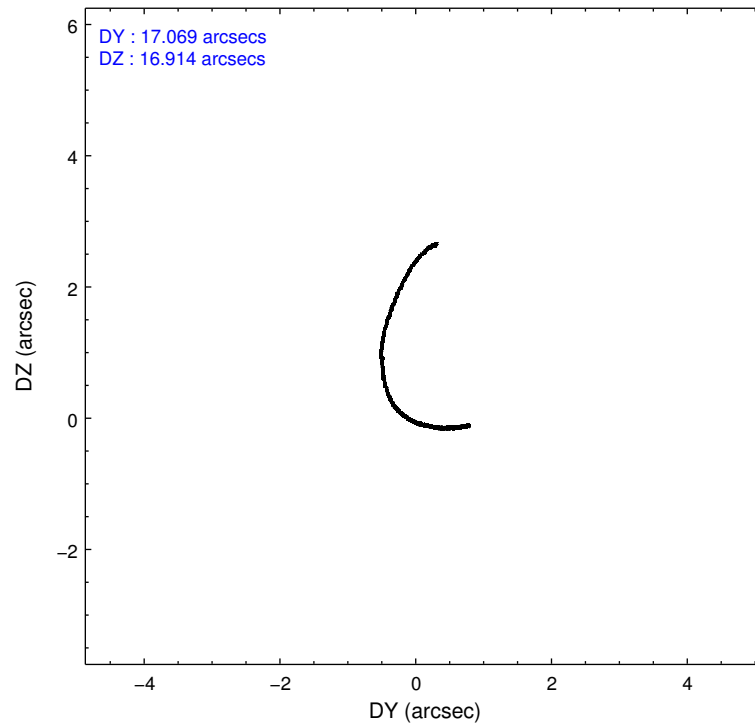
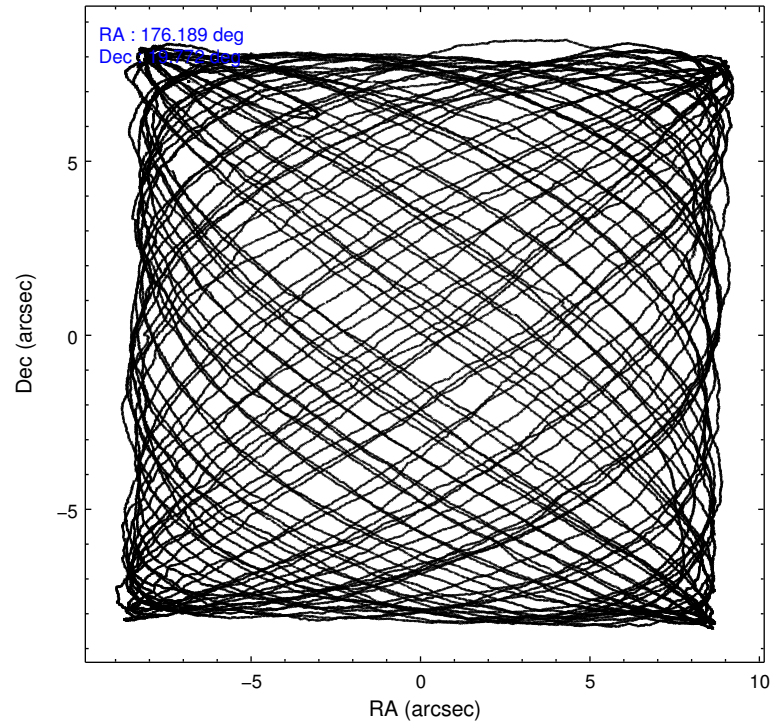
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	172932	190579	193581	196852	186944
rejected events	137572	141607	154775	152931	157415
rejected %	79%	74%	79%	77%	84%

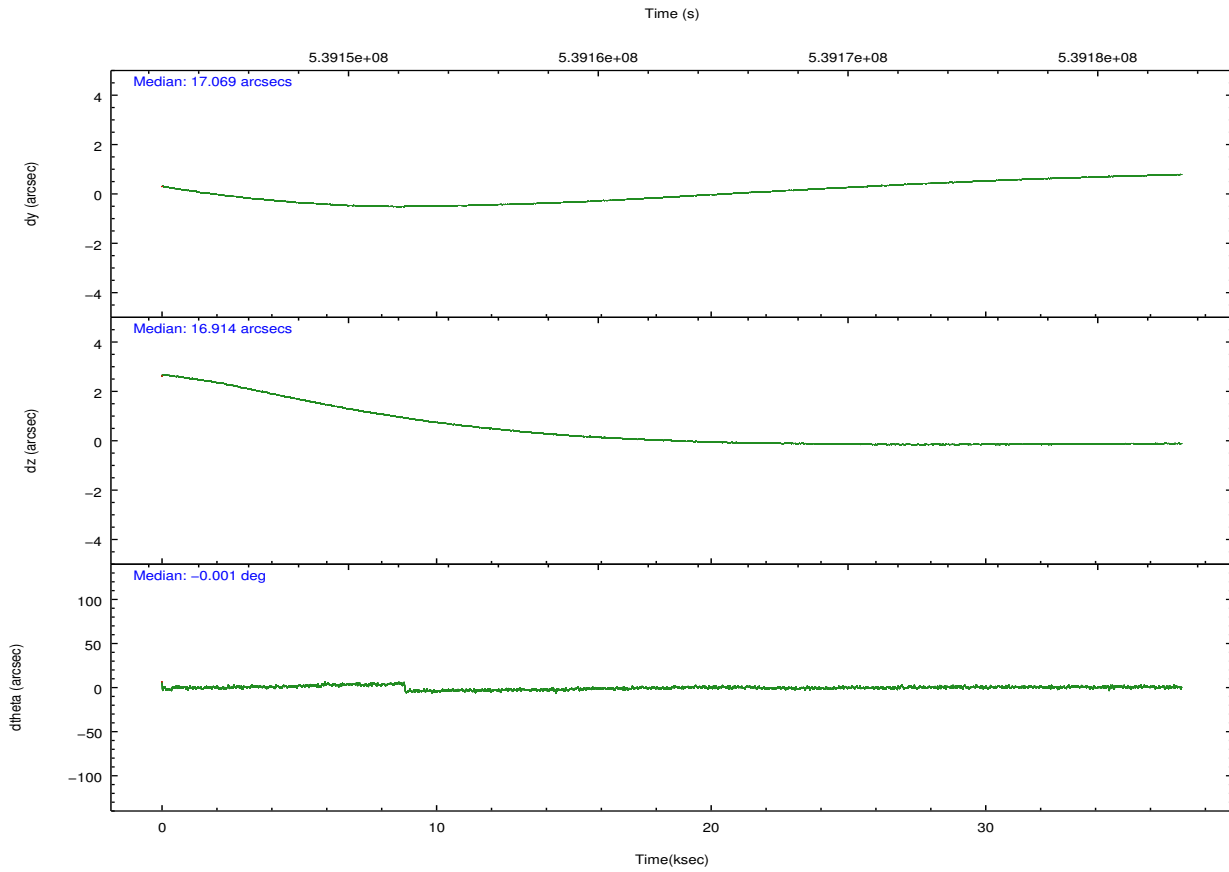
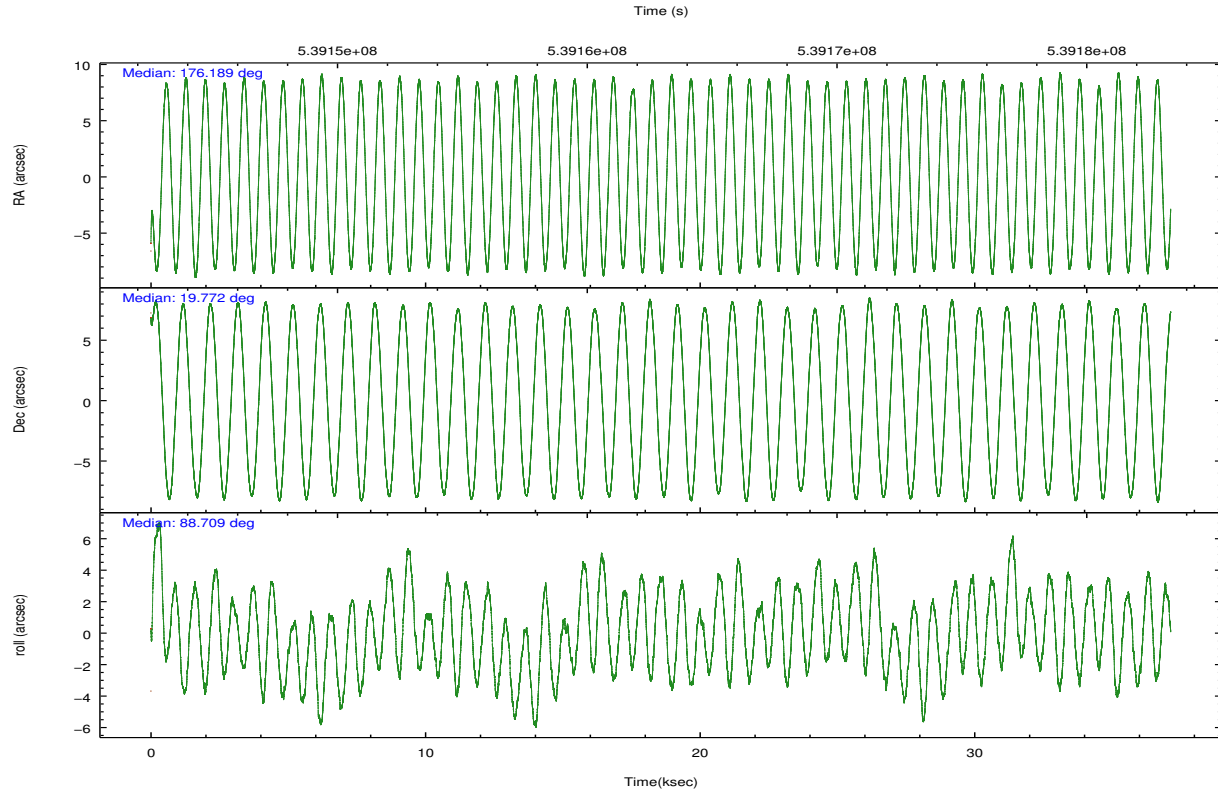
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	18981	29170	22524	26787	13936
	10%	15%	11%	13%	7%
grade 1 events	136	171	143	152	98
	0%	0%	0%	0%	0%
grade 2 events	6625	8182	6761	6813	5659
	3%	4%	3%	3%	3%
grade 3 events	2669	3006	2547	2768	2449
	1%	1%	1%	1%	1%
grade 4 events	2491	2946	2554	2825	2325
	1%	1%	1%	1%	1%
grade 5 events	8268	8895	7659	9621	8888
	4%	4%	3%	4%	4%
grade 6 events	4599	5675	4423	4736	5163
	2%	2%	2%	2%	2%
grade 7 events	129163	132534	146970	143150	148426
	74%	69%	75%	72%	79%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	176.202958	176.1887590679847	CCD I2 on	Y	Y
[deg] Pointing Dec	19.748011	19.77218656088387	CCD I3 on	Y	Y
[deg] Pointing Roll	88.493931	88.70741903128628	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	-234.592463	-234.5931605814527	CCD S3 on	N	N
[mm] SIM translation stage offset	1	1.000707578522992	CCD S4 on	N	N
[s] Observation start time (MET)	539144520.184000	539143281.3894	CCD S5 on	N	N
Observation start date	2015-02-01T02:20:53	2015-02-01T02:01:21	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	539181520.184000	539181924.40405	On-chip summing requested	N	N
Observation end date	2015-02-01T12:37:33	2015-02-01T12:45:24	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



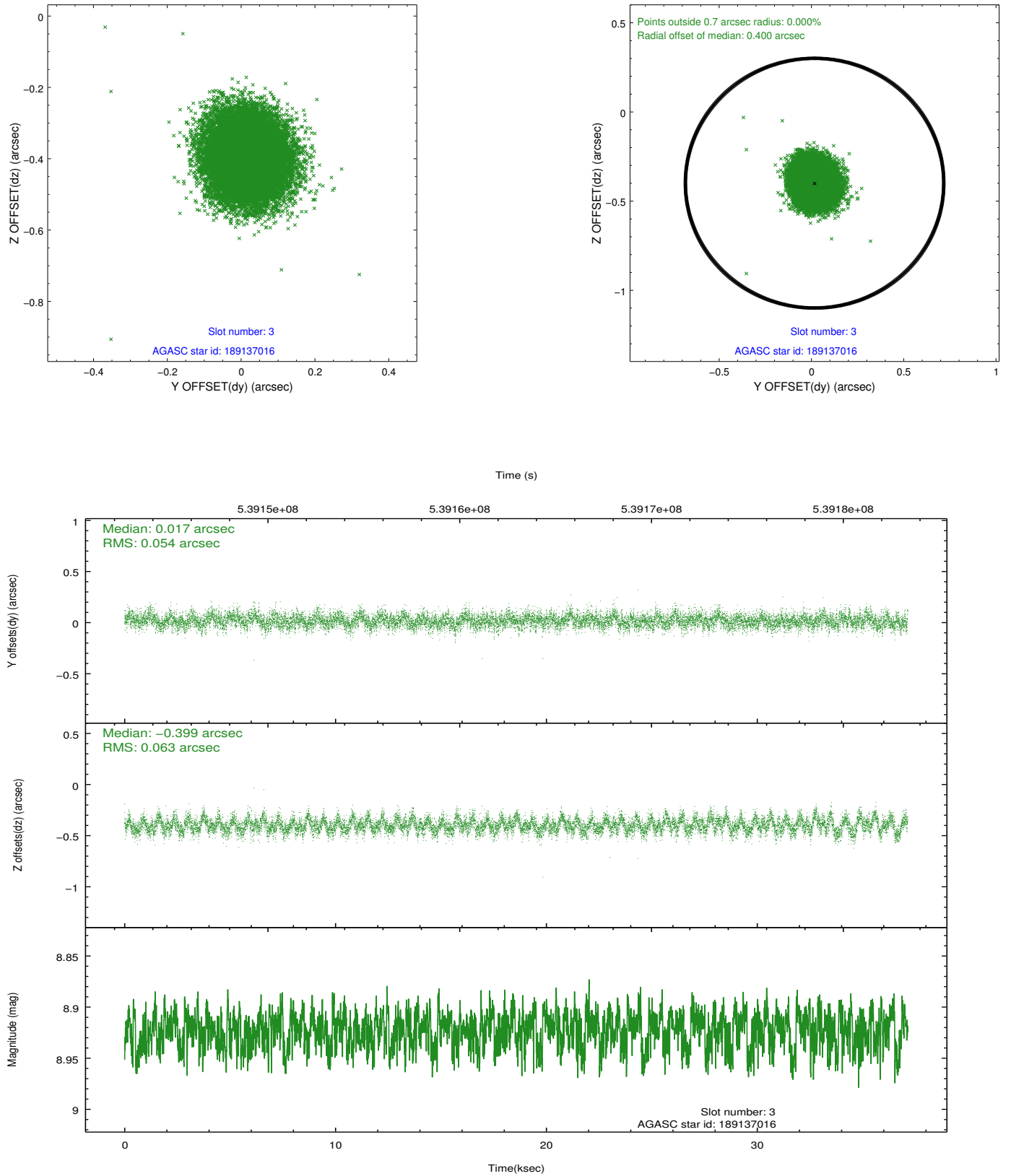


Slot Statistics

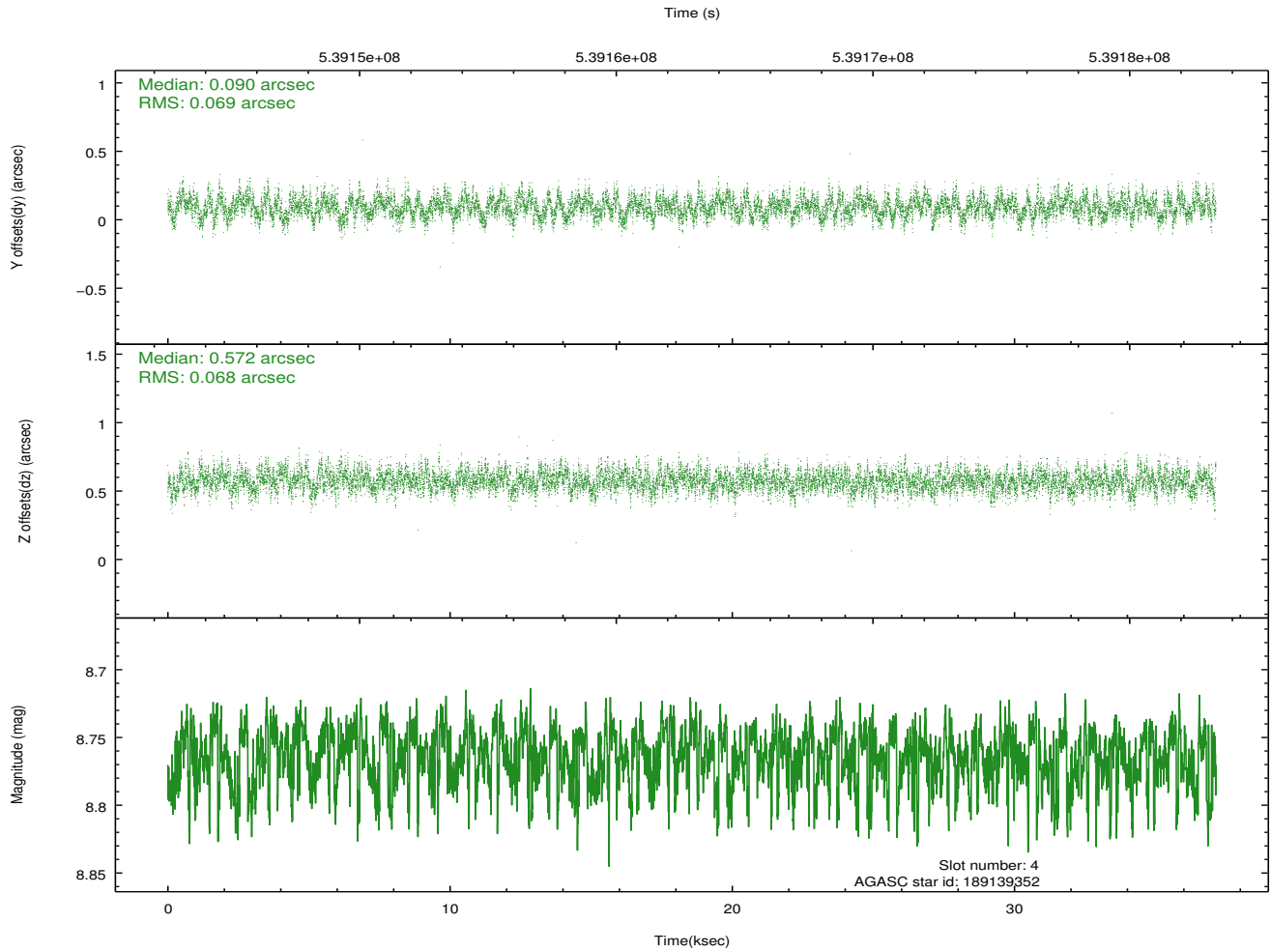
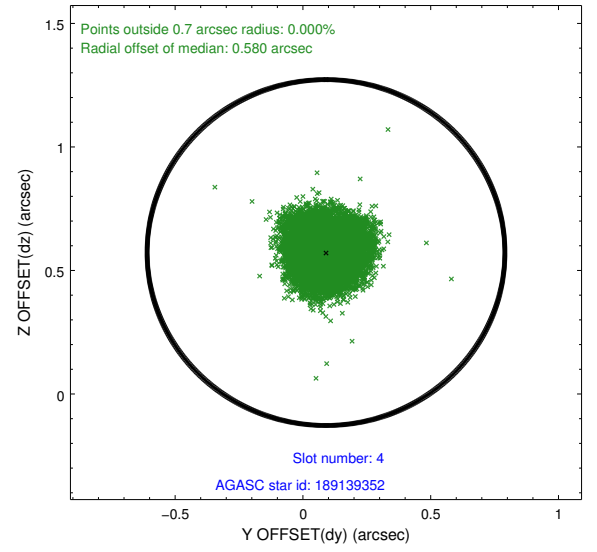
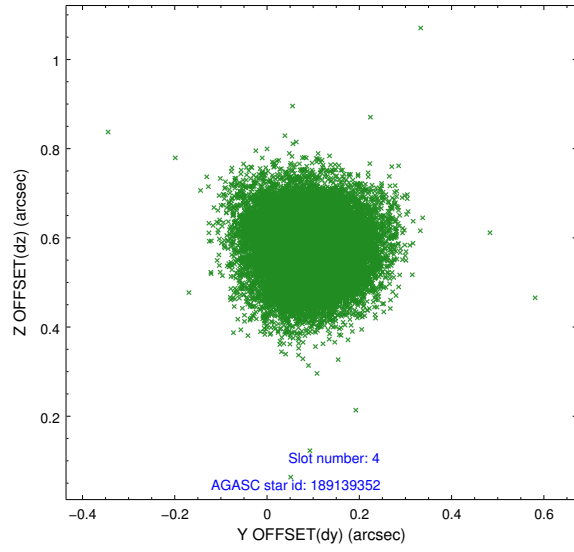
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.15	9059	-0.062	0.069	0.025	0.077	0.000000	0.000000	922.23	-820.31
1	FID		ACIS-I-2	7.05	9058	-0.215	-0.142	0.020	0.036	0.000000	0.000000	-771.94	-827.10
2	FID		ACIS-I-4	7.06	9059	0.177	0.139	0.025	0.047	0.000000	0.000000	2142.43	1079.39
3	GUIDE	used	189137016	8.92	18106	0.017	-0.399	0.088	0.142	176.017714	19.173647	-2082.83	575.22
4	GUIDE	used	189139352	8.76	18109	0.090	0.572	0.103	0.165	176.255936	19.500124	-887.01	-202.34
5	GUIDE	used	189140584	7.41	18117	-0.246	0.029	0.108	0.162	176.337611	19.889196	519.62	-442.29
6	GUIDE	used	189147640	7.62	18117	-0.186	-0.275	0.073	0.118	176.540349	20.319236	2086.96	-1084.76
7	GUIDE	used	189152088	8.49	18113	0.320	0.079	0.107	0.178	176.796455	19.306289	-1532.39	-2056.79

2.4 Star Slots

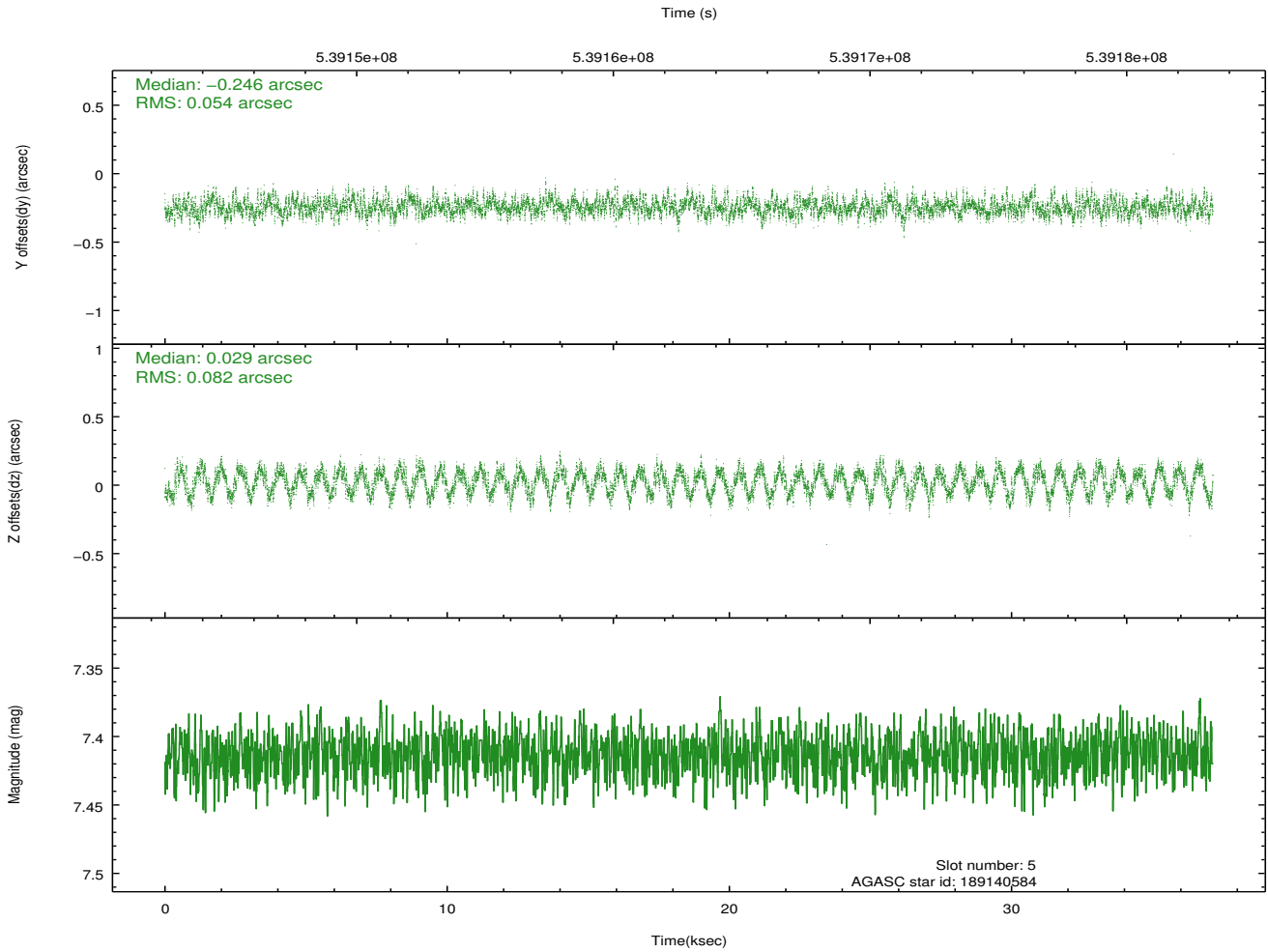
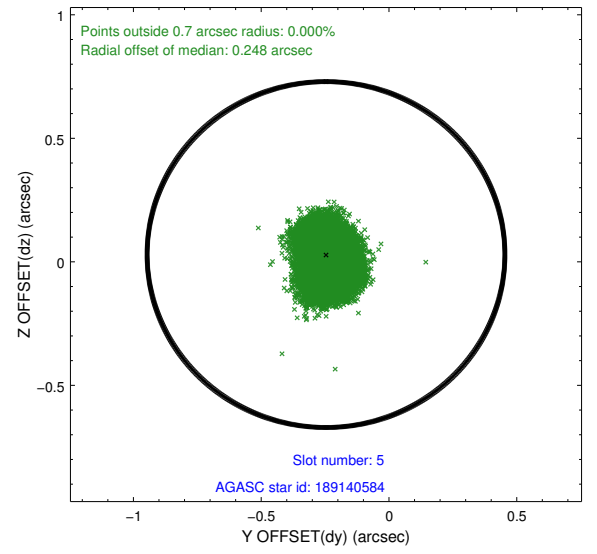
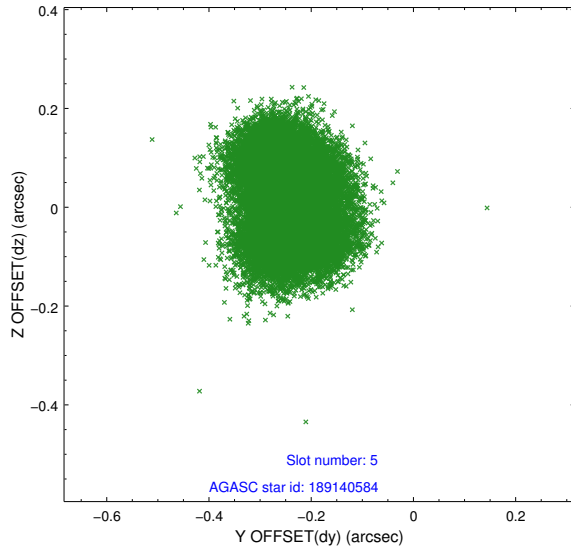
2.4.1 Slot 3



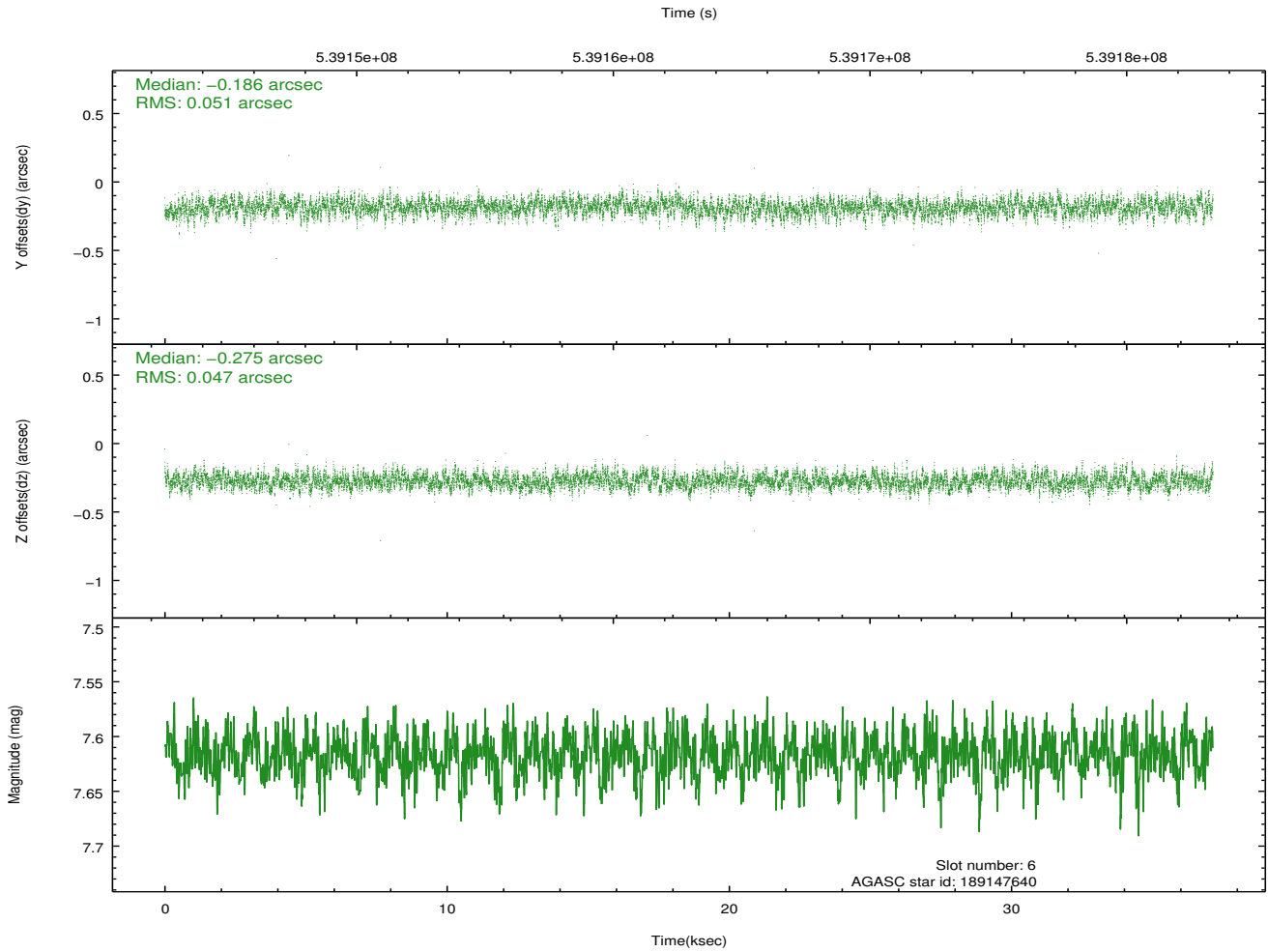
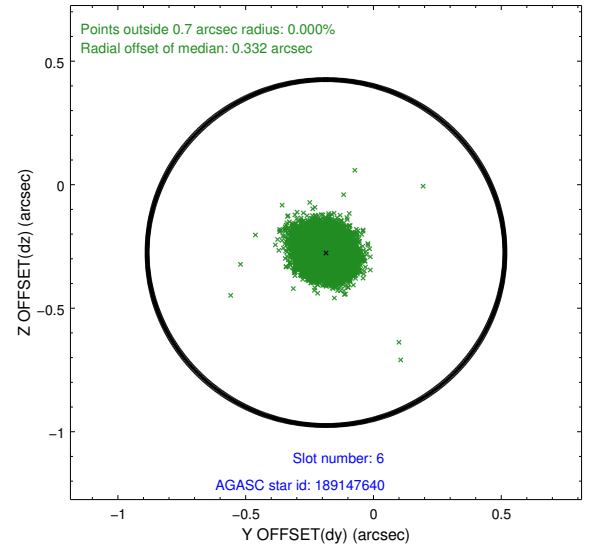
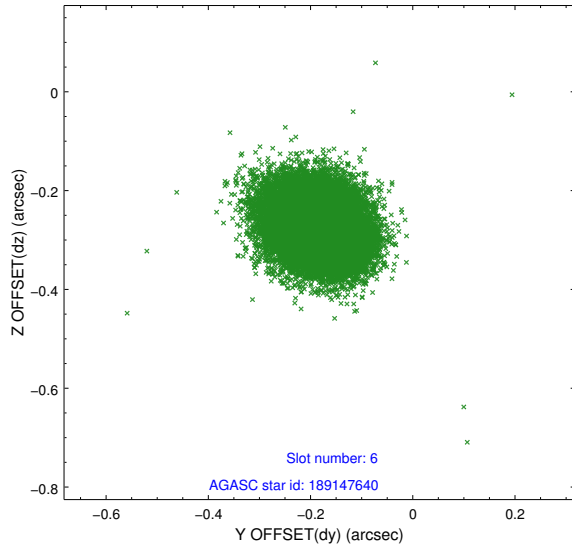
2.4.2 Slot 4



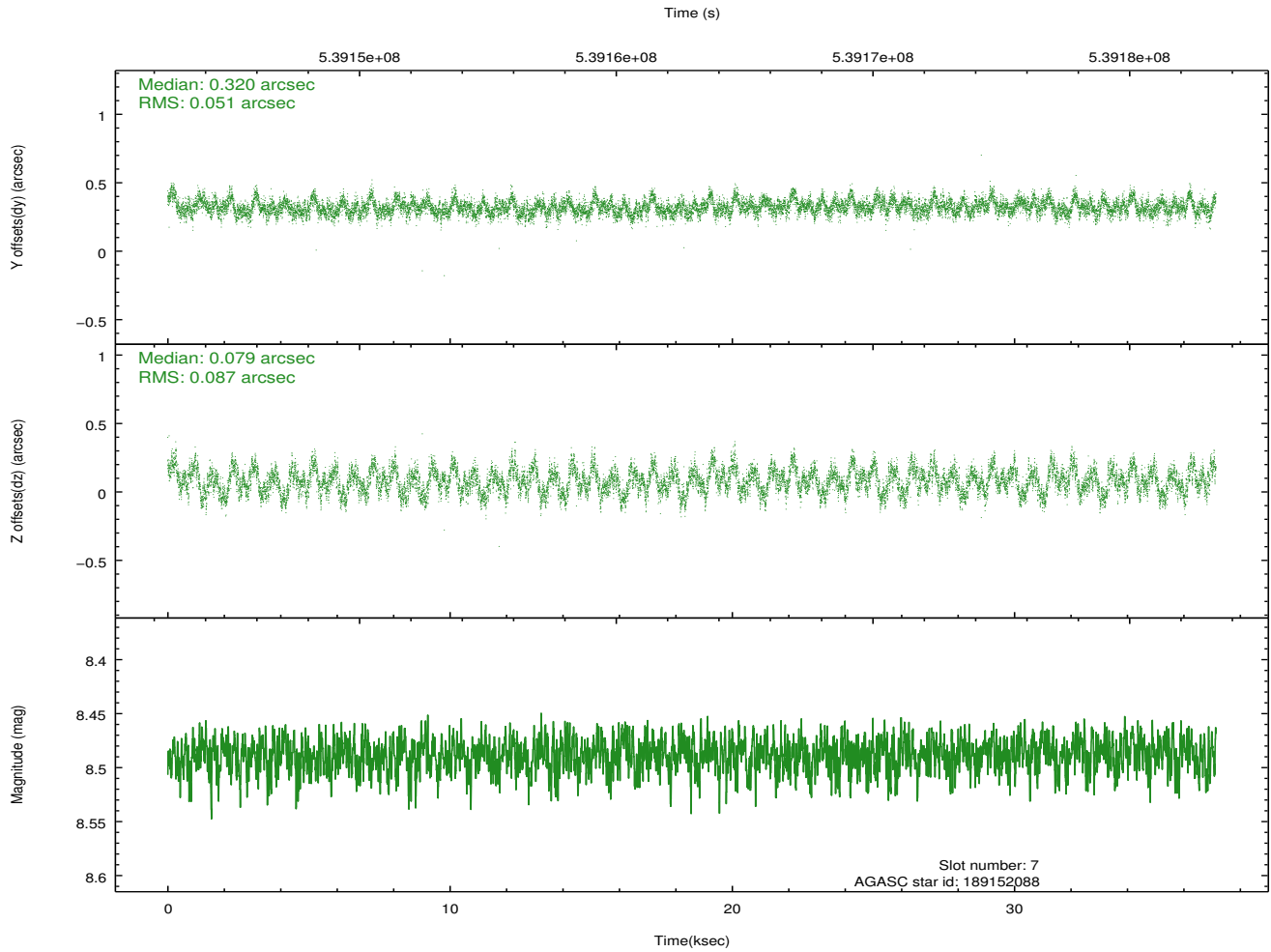
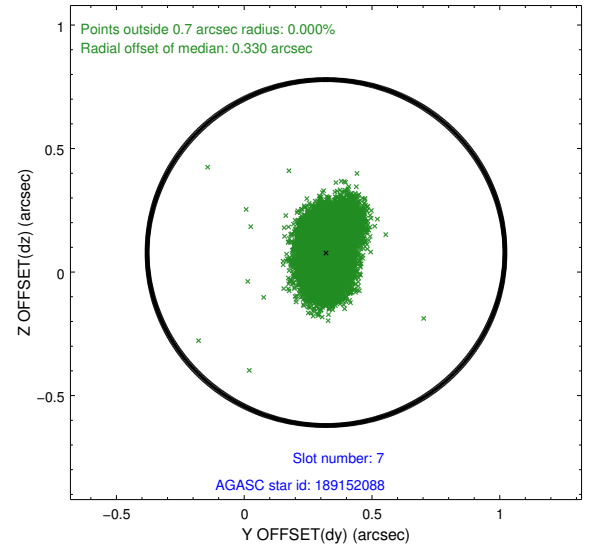
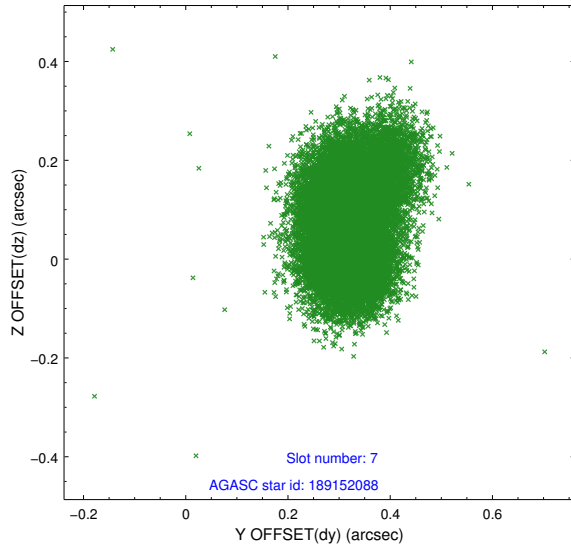
2.4.3 Slot 5



2.4.4 Slot 6

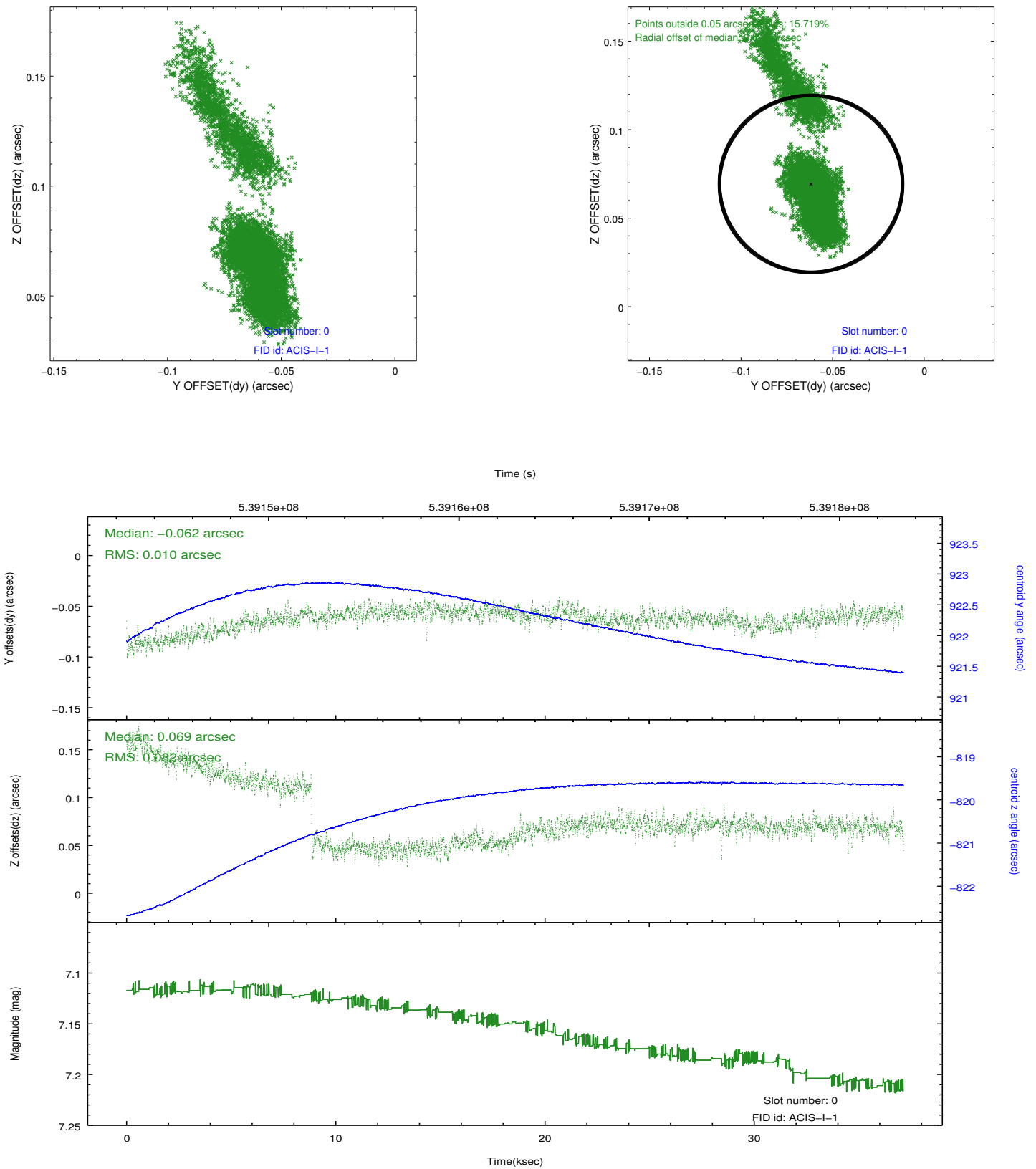


2.4.5 Slot 7

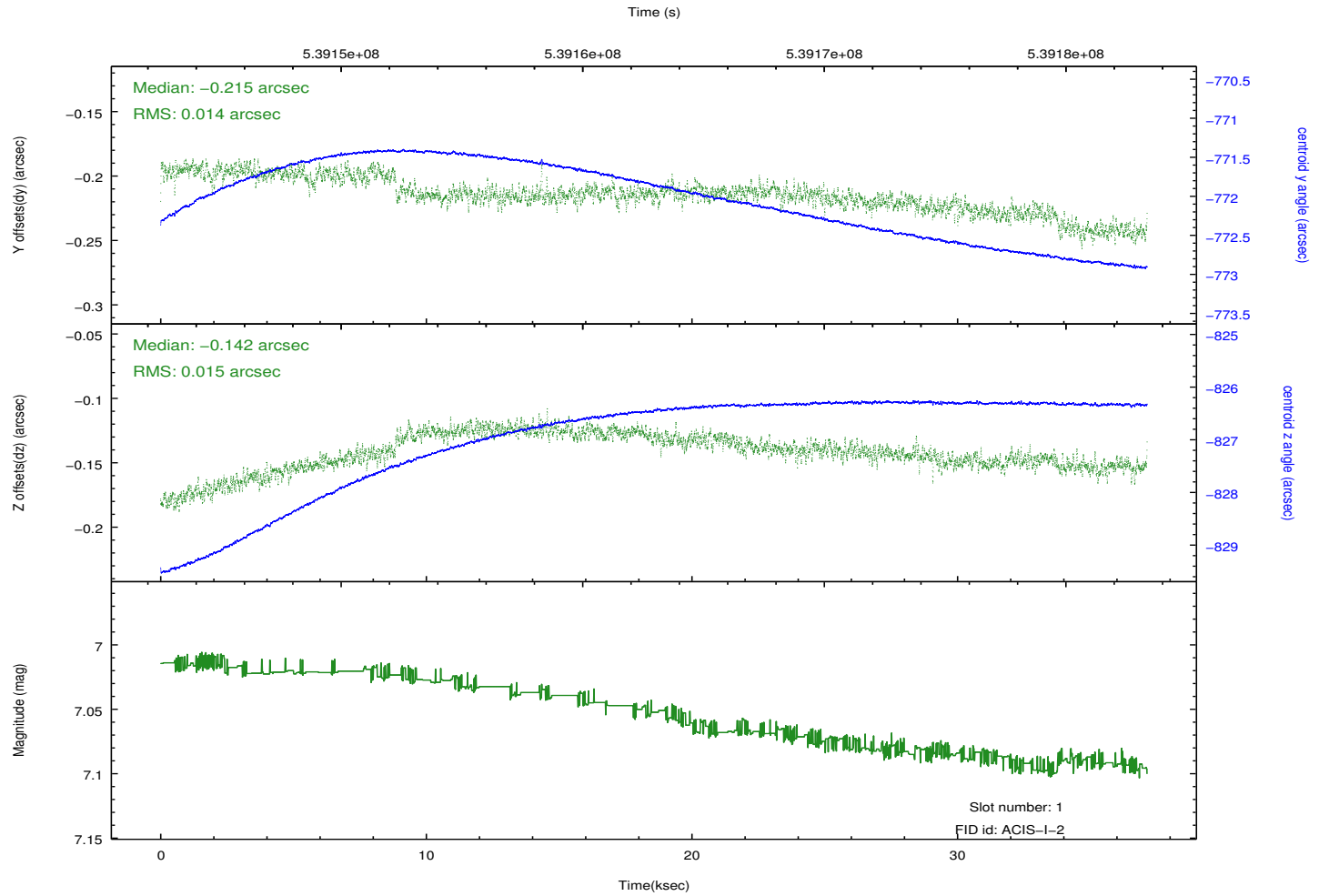
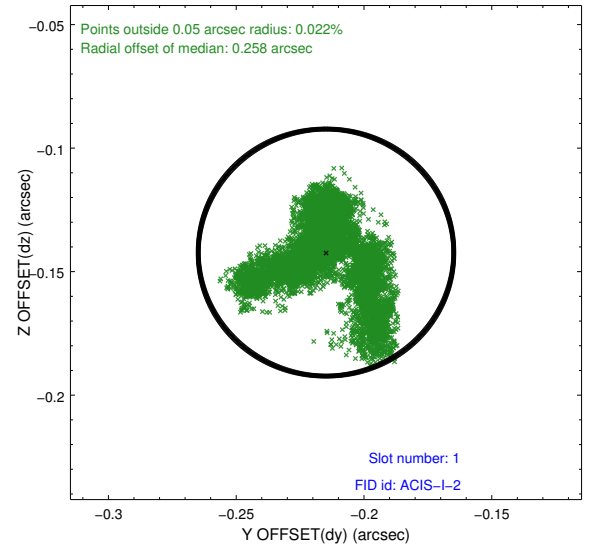
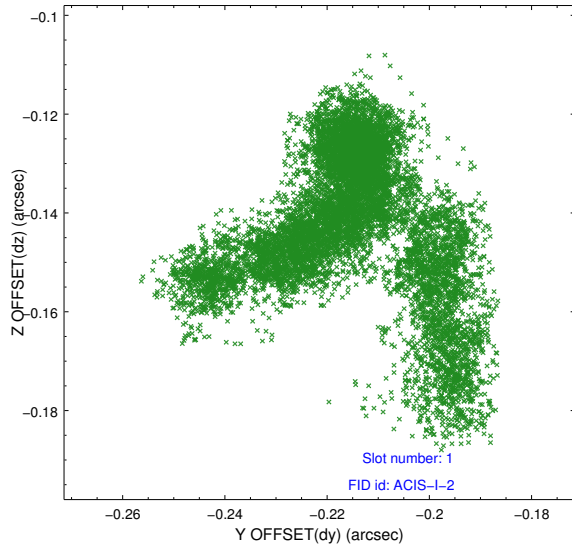


2.5 FID Slots

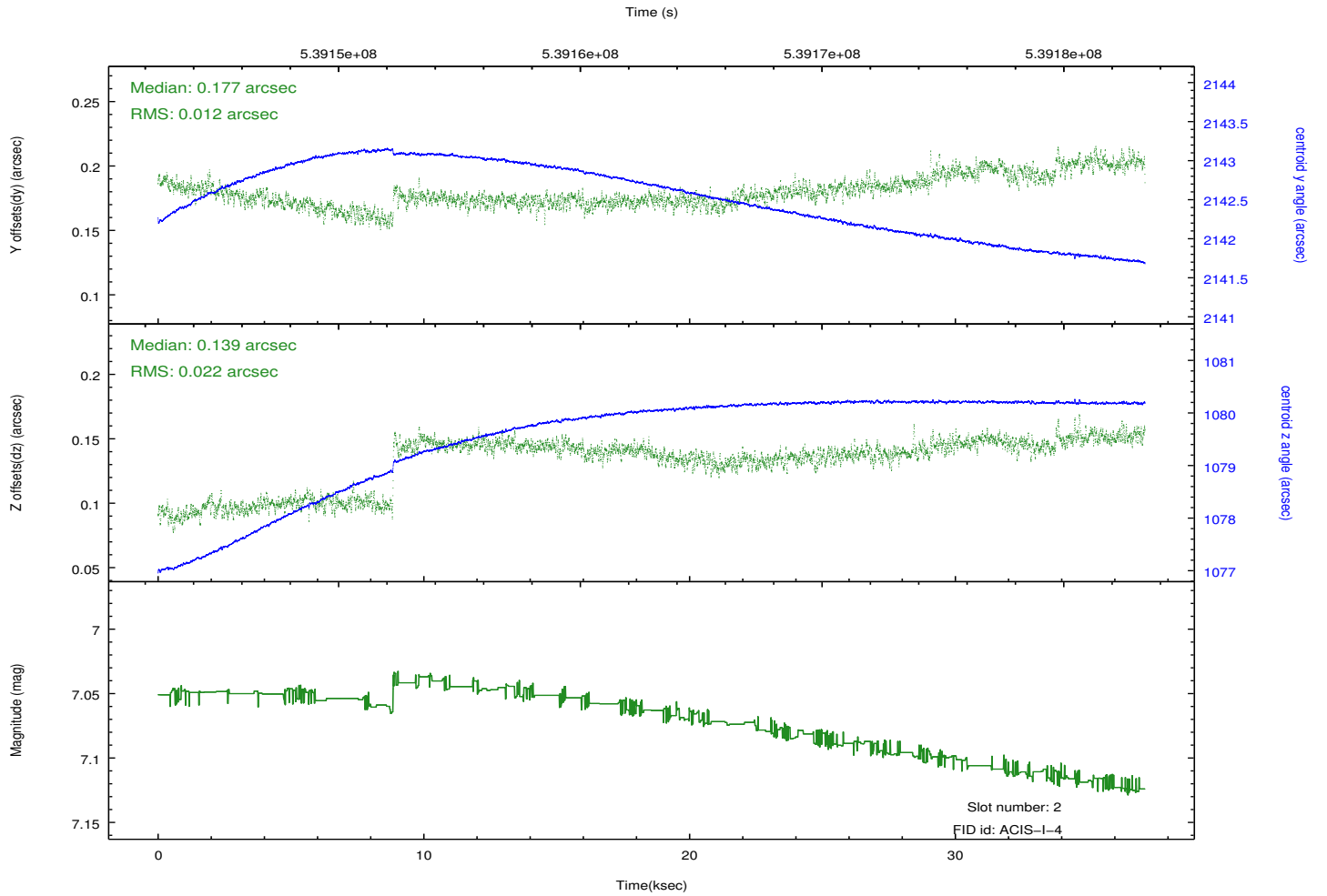
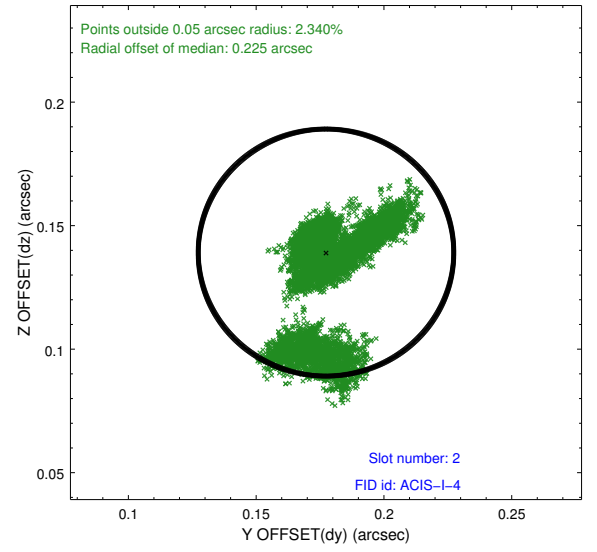
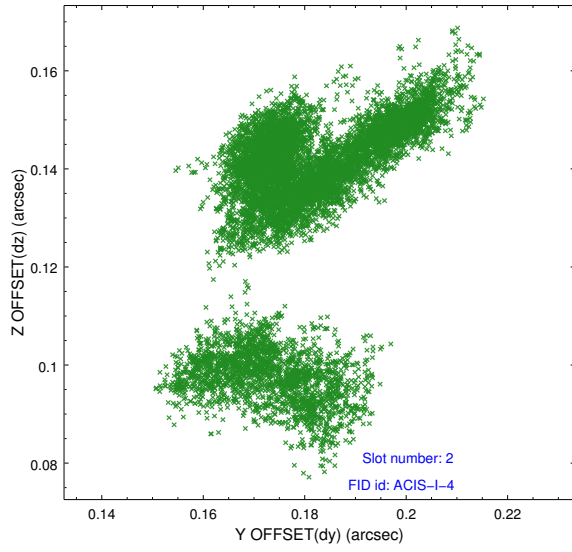
2.5.1 Slot 0



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)	2015.02.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.079059225082

A.2 Comments