

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19572 - L2 Version 1
Chandra X-Ray Center

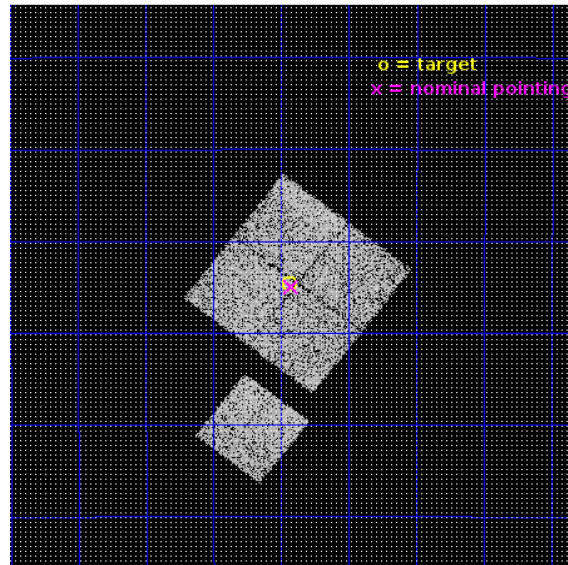
L2 Processing Date : Jun 17 2017

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

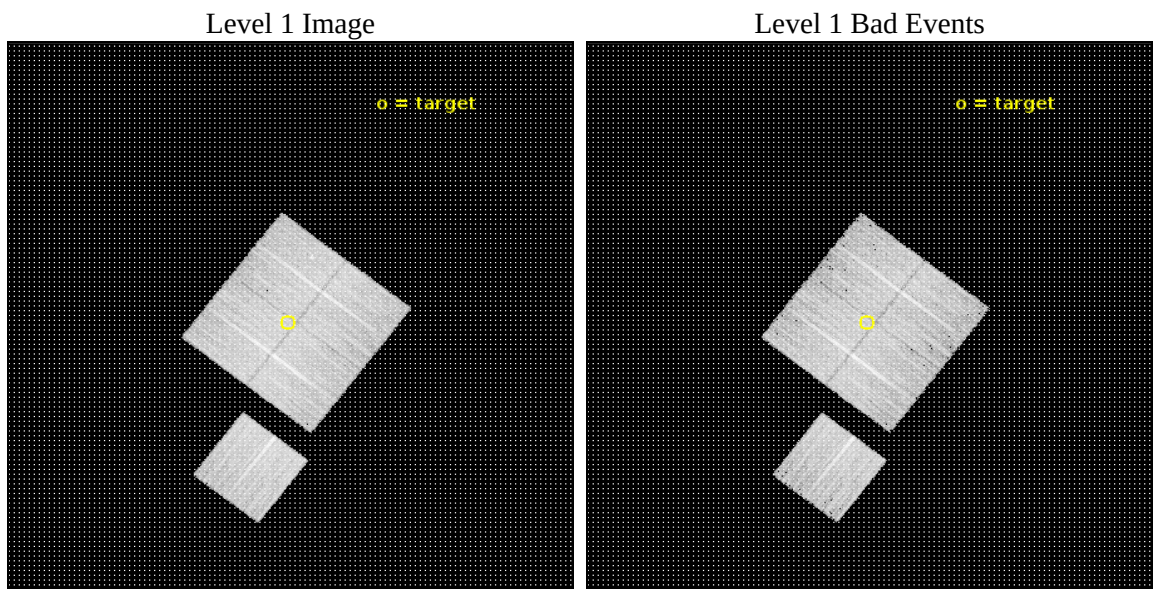
seq_num	801664	Sequence number
obs_id	19572	Observation id
title	Unravelling the peculiar outskirts of the X-ray bright galaxy cluster PKS 0745-191	Proposal title
observer	Stephen Walker	Principal investigator
object	PKS 0745-191 North	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	116.98375	Observer's specified target RA [deg]
dec_targ	-19.077194	Observer's specified target Dec [deg]
ra_nom	116.98107533993	Nominal RA [deg]
dec_nom	-19.082677009801	Nominal Dec [deg]
roll_nom	217.57289762908	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10068.68917644	Sum of GTIs [s]
livetime	9937.1343398889	Livetime [s]
ontime0	10068.56605649	Sum of GTIs [s]
ontime1	10068.607096434	Sum of GTIs [s]
ontime2	10068.648136497	Sum of GTIs [s]
ontime3	10068.68917644	Sum of GTIs [s]
ontime6	10065.38397634	Sum of GTIs [s]
l2events	35394	Number of level 2 events



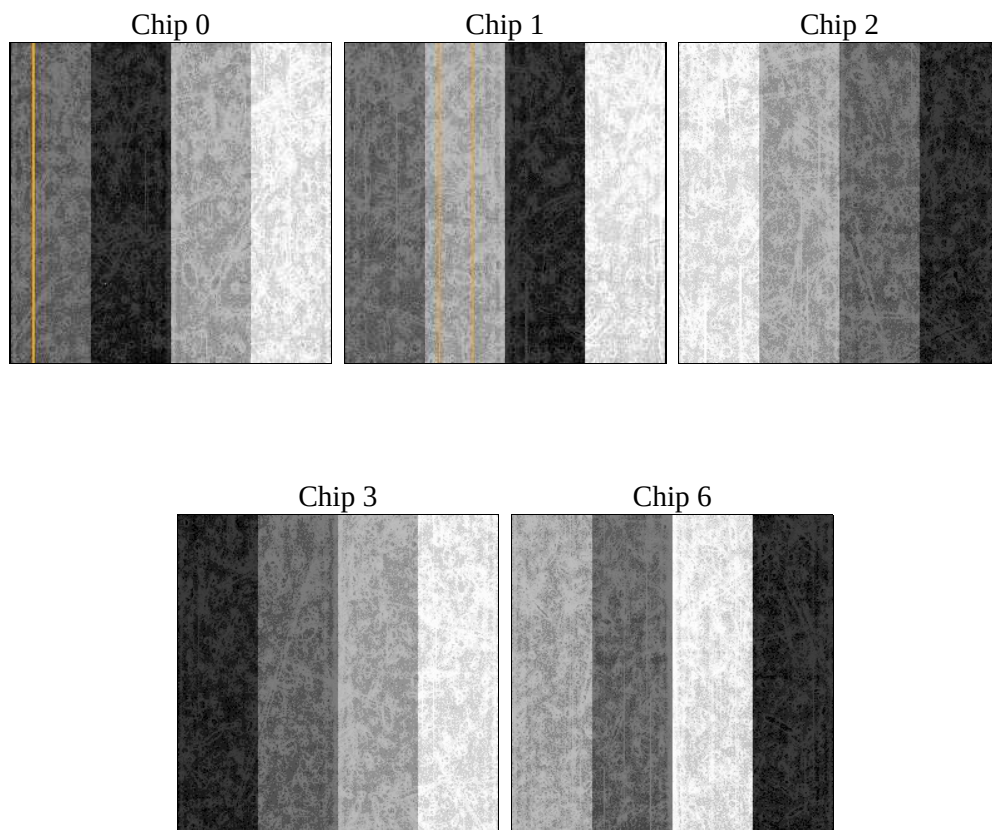
2 OBI

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	10.6	Processing system revision	ontime	10068.68917644	Sum of GTIs [s]
caldsver	4.7.5	 	ontime0	10068.56605649	Sum of GTIs [s]
date	2017-06-17T13:25:31	Date and time of file creation	ontime1	10068.607096434	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	10068.648136497	Sum of GTIs [s]
			ontime3	10068.68917644	Sum of GTIs [s]
			ontime6	10065.38397634	Sum of GTIs [s]
			l1events	371531	Number of level 1 events

2.1.4 Events

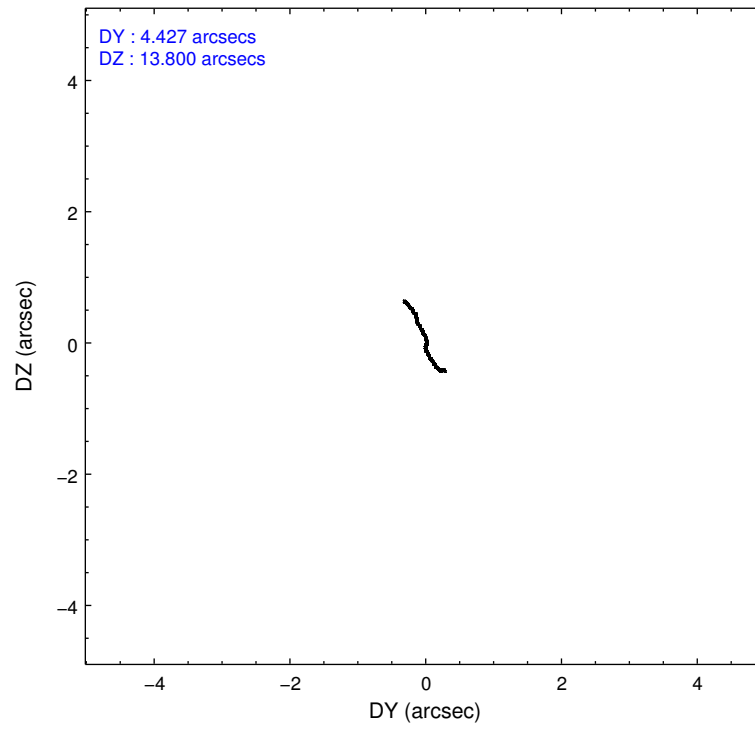
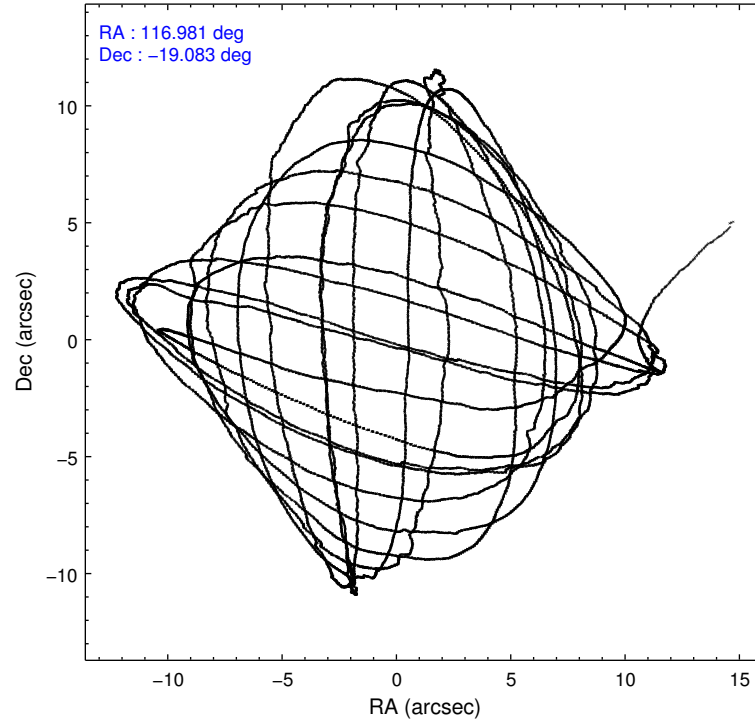
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	69655	70976	76711	76526	77663
rejected events	61559	61662	68479	68876	68937
rejected %	88%	86%	89%	90%	88%

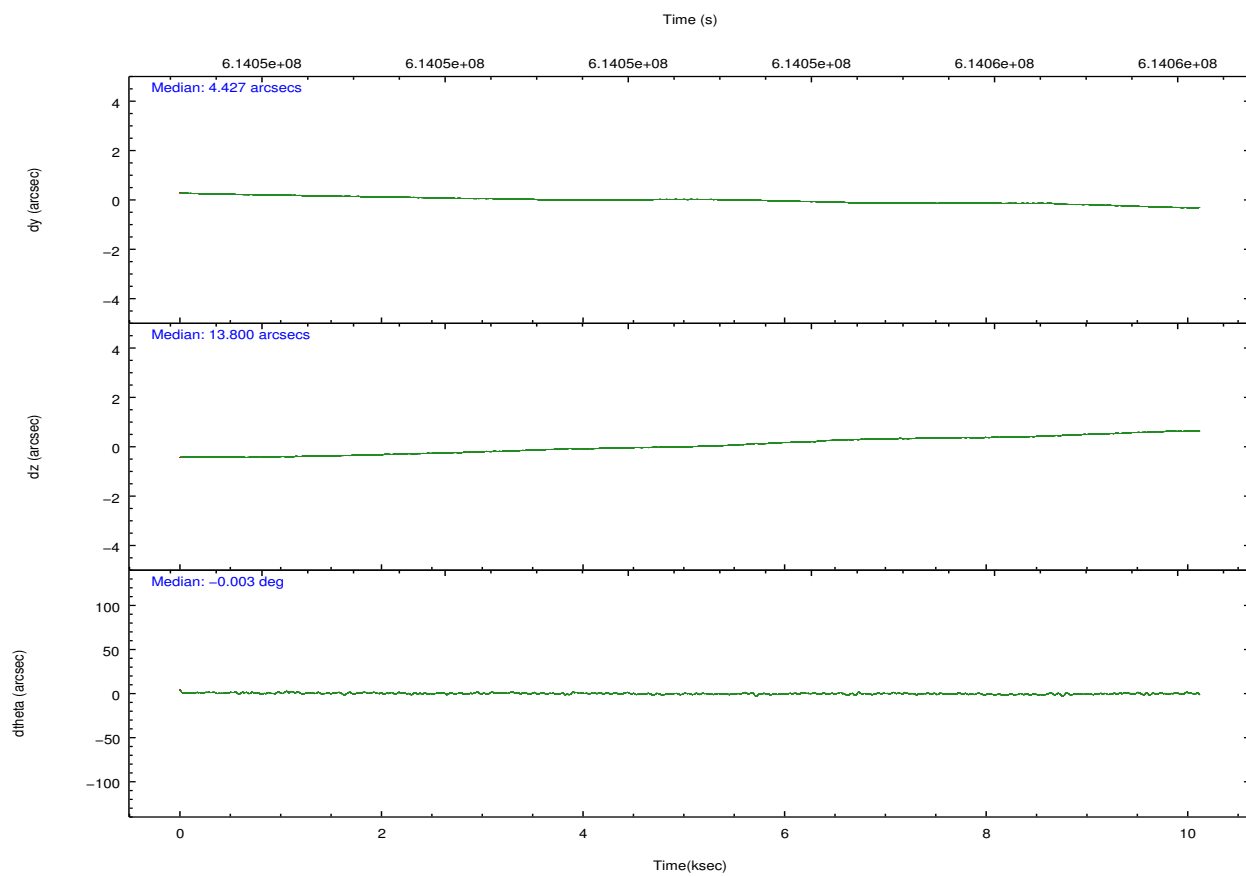
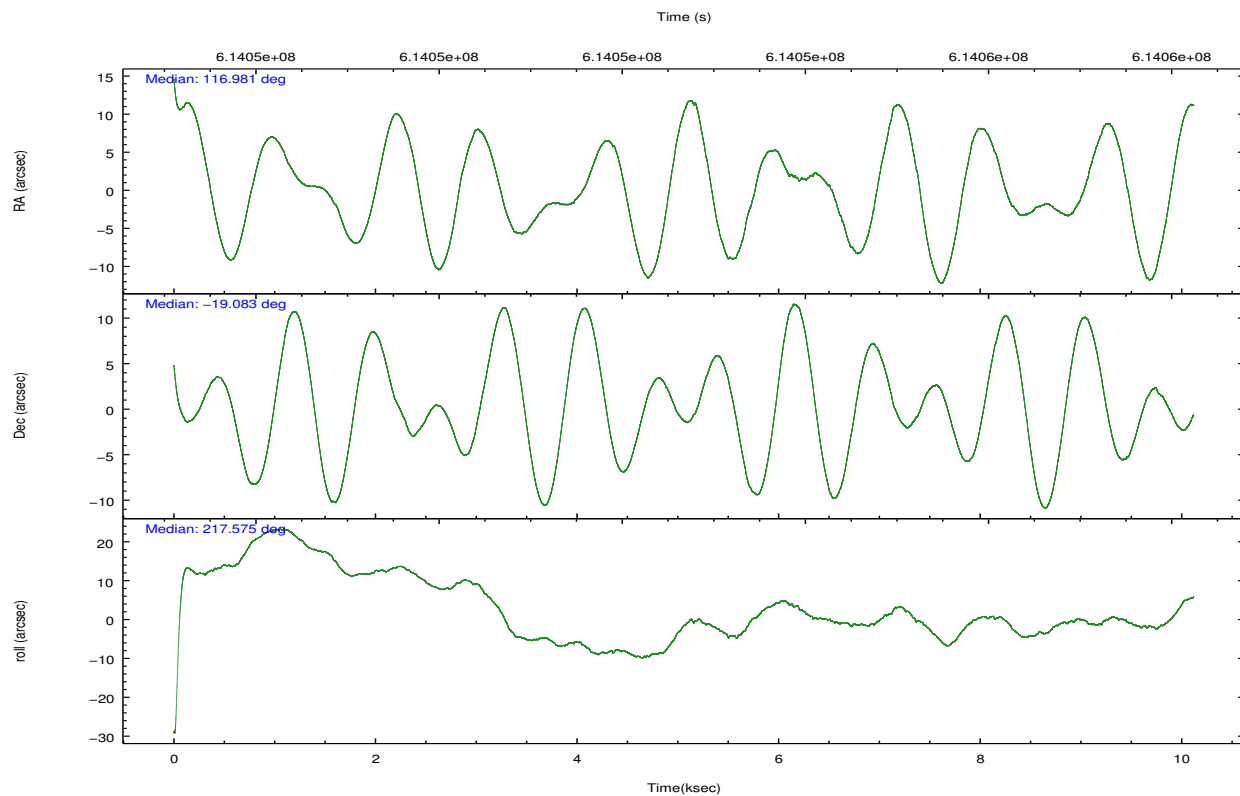
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2803	3150	3175	2759	2972
	4%	4%	4%	3%	3%
grade 1 events	38	39	44	43	33
	0%	0%	0%	0%	0%
grade 2 events	2035	2432	1921	1683	2056
	2%	3%	2%	2%	2%
grade 3 events	800	791	835	807	800
	1%	1%	1%	1%	1%
grade 4 events	749	847	803	775	760
	1%	1%	1%	1%	0%
grade 5 events	3126	3104	2941	3429	3286
	4%	4%	3%	4%	4%
grade 6 events	1712	2100	1502	1628	2145
	2%	2%	1%	2%	2%
grade 7 events	58392	58513	65490	65402	65611
	83%	82%	85%	85%	84%

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	116.992075	116.9810753399326	CCD I2 on	Y	Y
[deg] Pointing Dec	-19.057120	-19.08267700980063	CCD I3 on	Y	Y
[deg] Pointing Roll	217.367870	217.5728976290762	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	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	614047746.184000	614046471.3384	CCD S5 on	N	N
Observation start date	2017-06-17T00:47:57	2017-06-17T00:27:51	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	614057746.184000	614057880.10156	On-chip summing requested	N	N
Observation end date	2017-06-17T03:34:37	2017-06-17T03:38:00	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



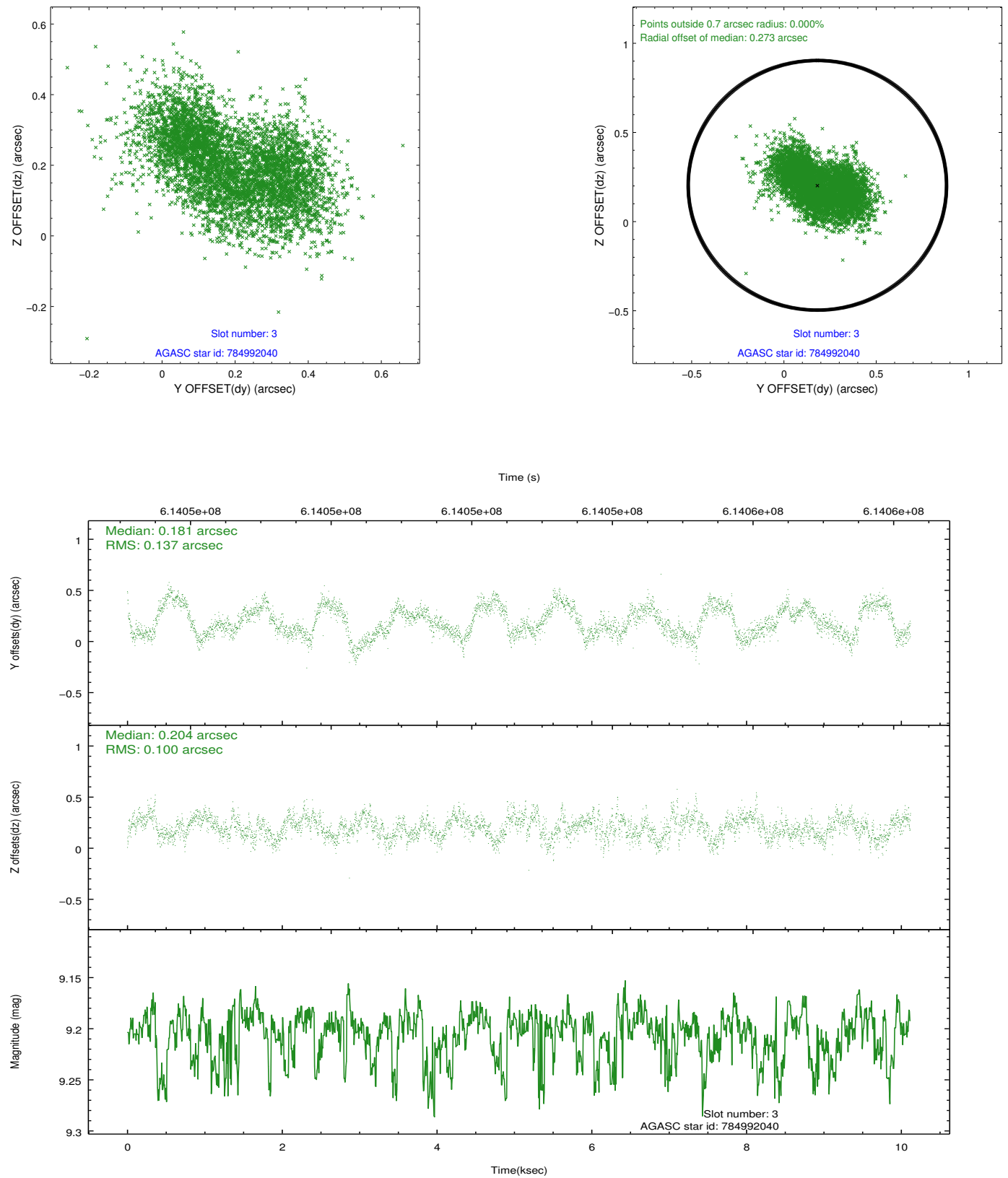


Slot Statistics

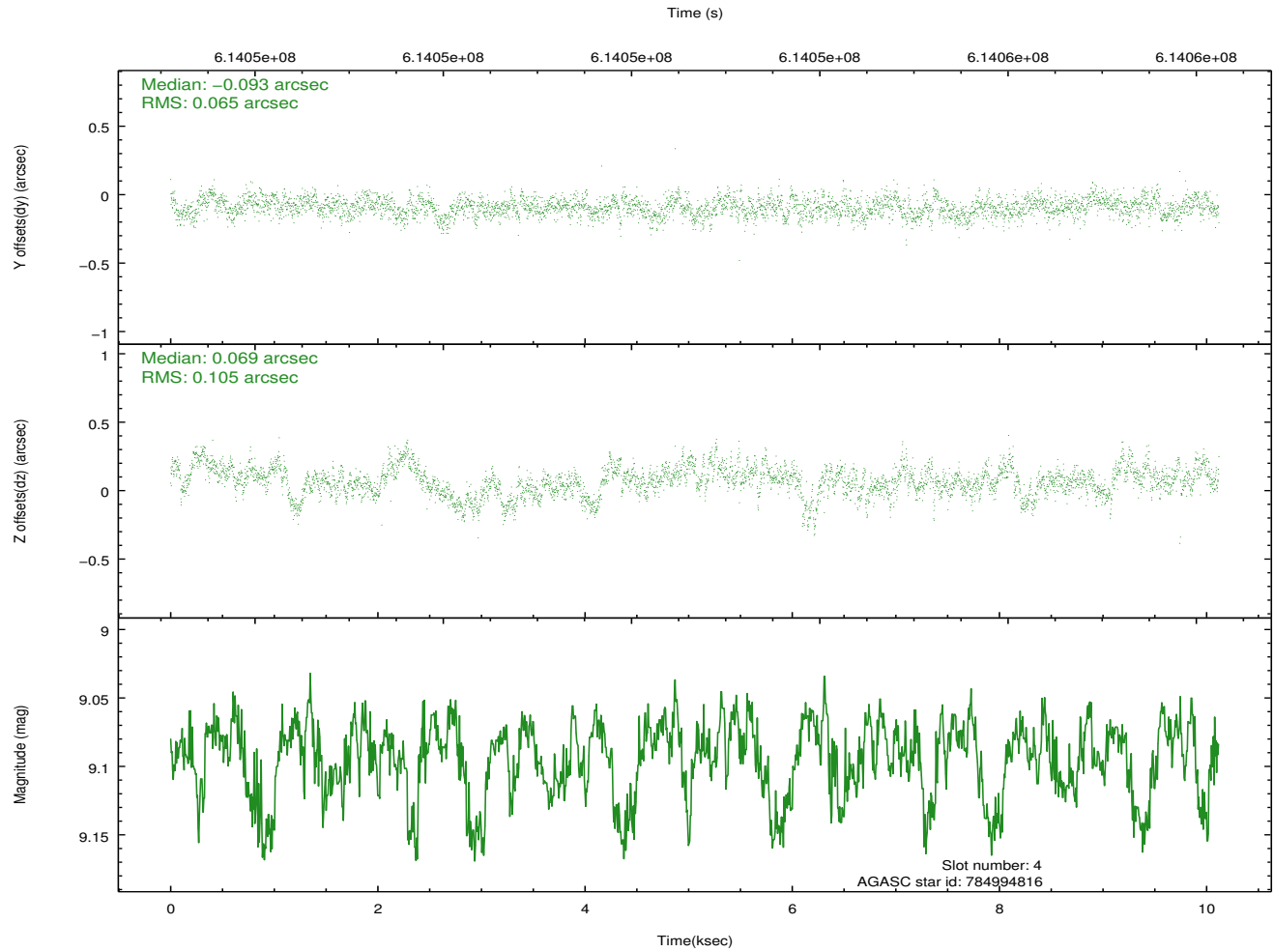
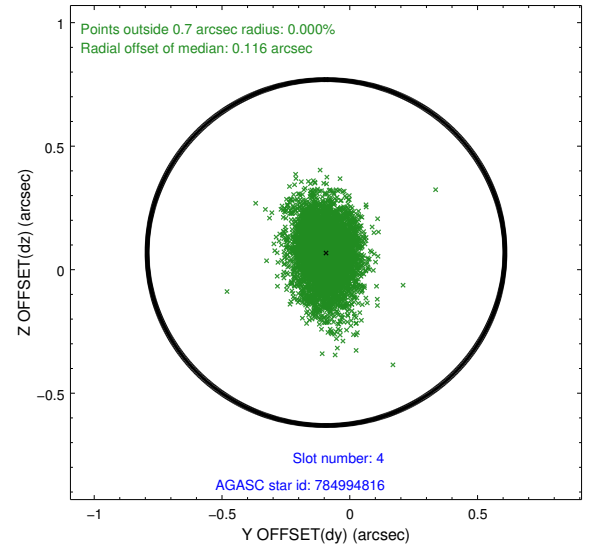
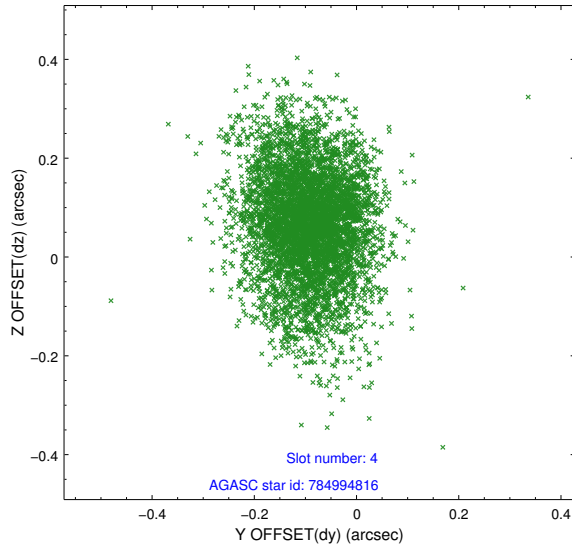
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.19	2469	0.064	0.050	0.012	0.021	0.000000	0.000000	935.42	-837.36
1	FID		ACIS-I-2	7.10	2469	-0.184	-0.098	0.012	0.019	0.000000	0.000000	-758.62	-844.25
2	FID		ACIS-I-6	7.18	2469	0.029	0.115	0.010	0.019	0.000000	0.000000	400.73	1704.24
3	GUIDE	used	784992040	9.20	4934	0.181	0.204	0.184	0.283	116.769991	-18.855070	160.60	-1036.51
4	GUIDE	used	784994816	9.09	4932	-0.093	0.069	0.127	0.222	116.505488	-19.434301	2138.91	78.41
5	GUIDE	used	784999168	9.72	4901	0.335	0.260	0.229	0.351	117.643773	-19.018935	-1842.58	1240.78
6	GUIDE	used	785000528	6.91	4937	-0.321	-0.216	0.101	0.180	116.828383	-19.401048	1193.03	647.09
7	GUIDE	used	784996816	8.23	4934	-0.114	-0.310	0.088	0.151	117.450793	-18.934282	-1507.85	598.25

2.4 Star Slots

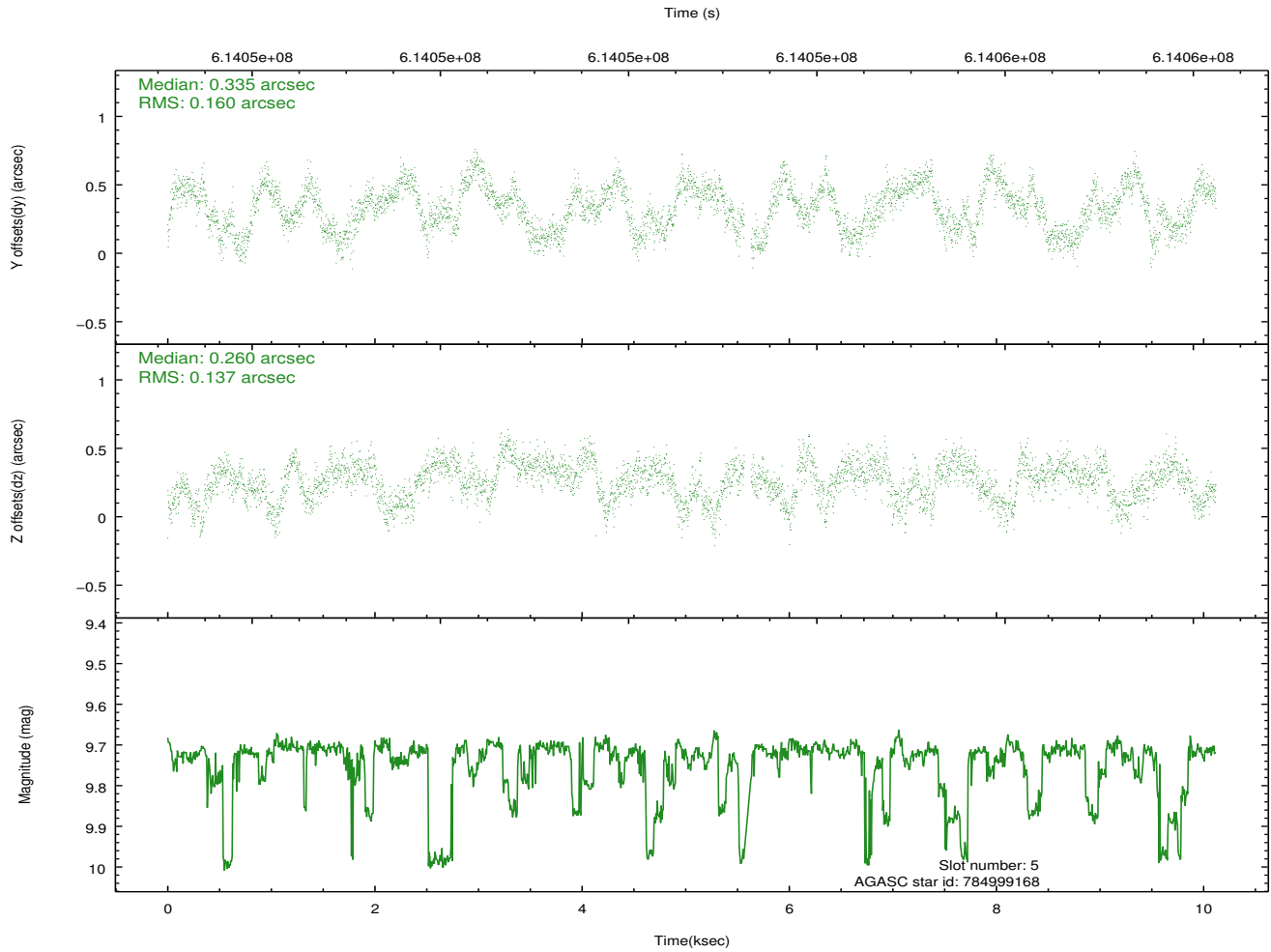
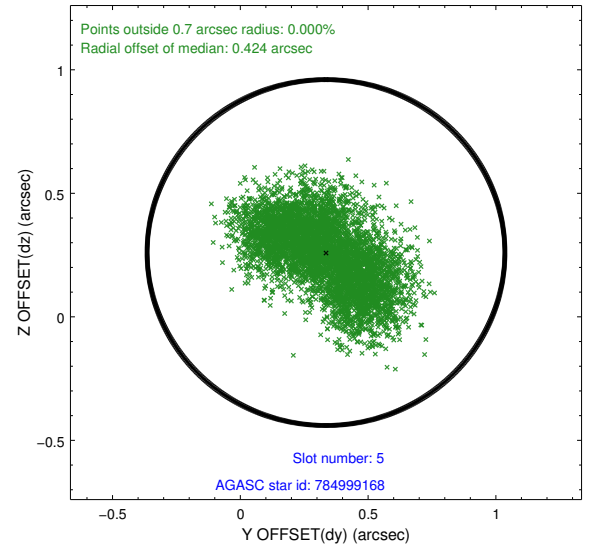
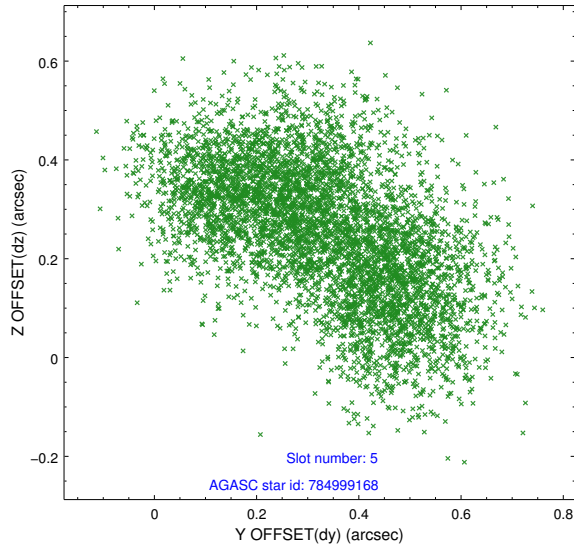
2.4.1 Slot 3



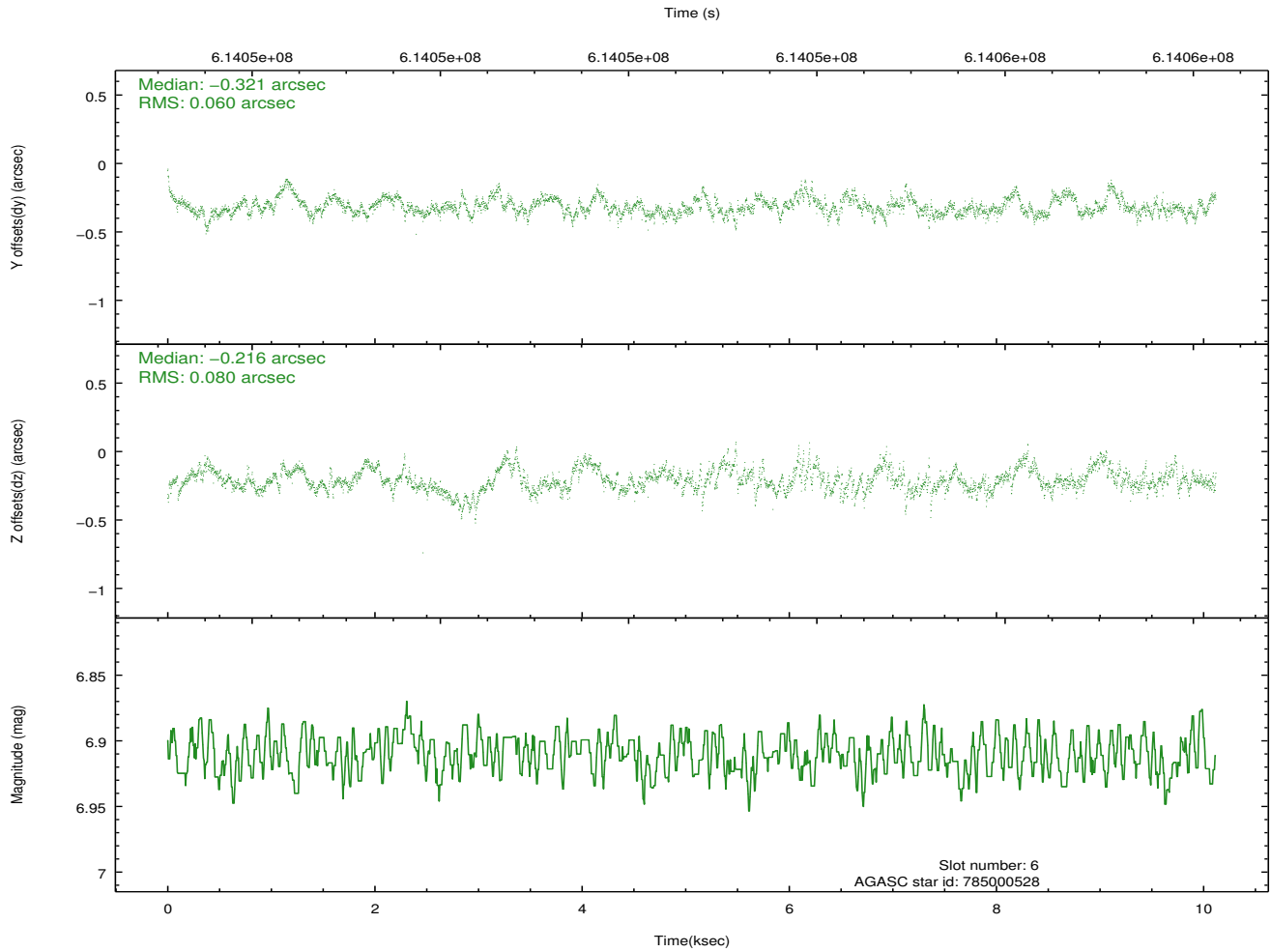
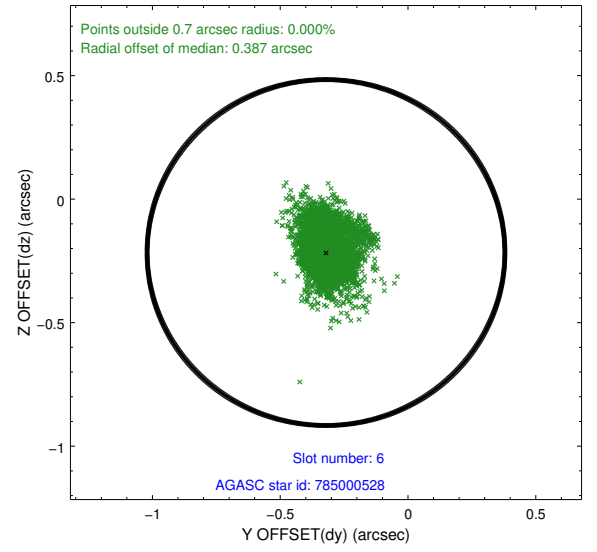
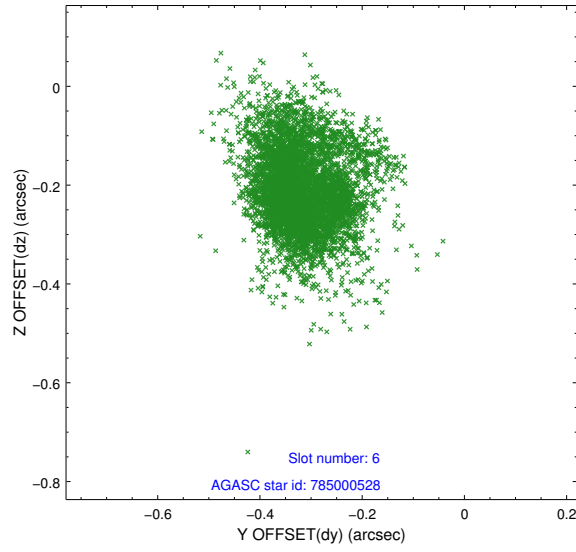
2.4.2 Slot 4



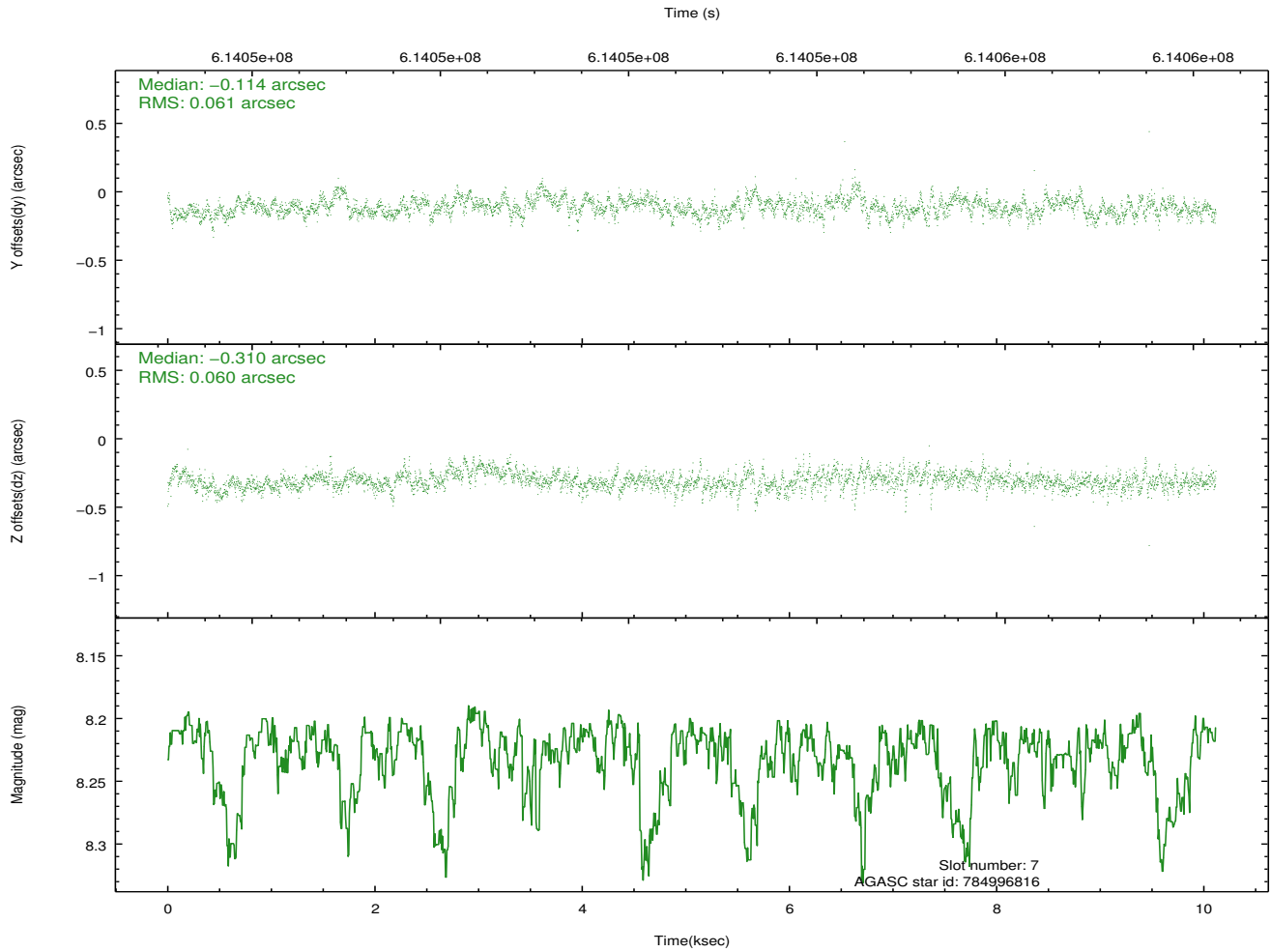
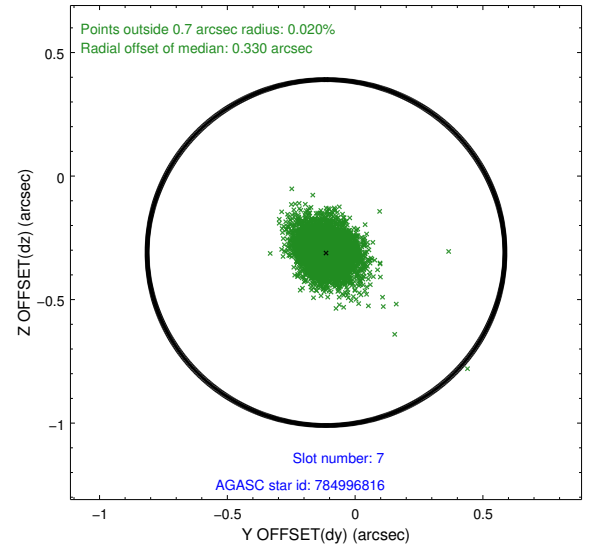
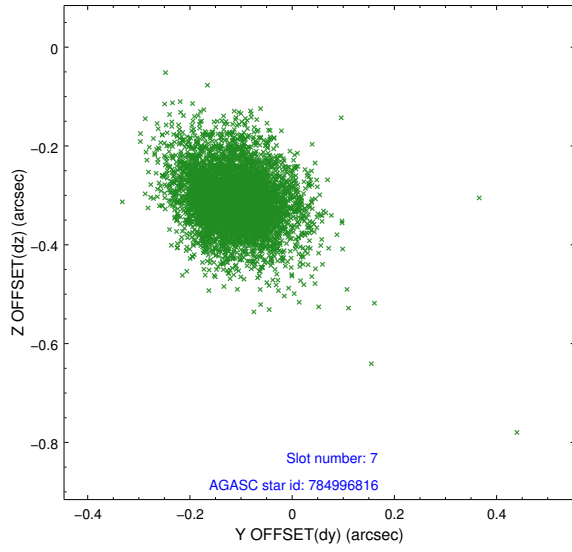
2.4.3 Slot 5



2.4.4 Slot 6

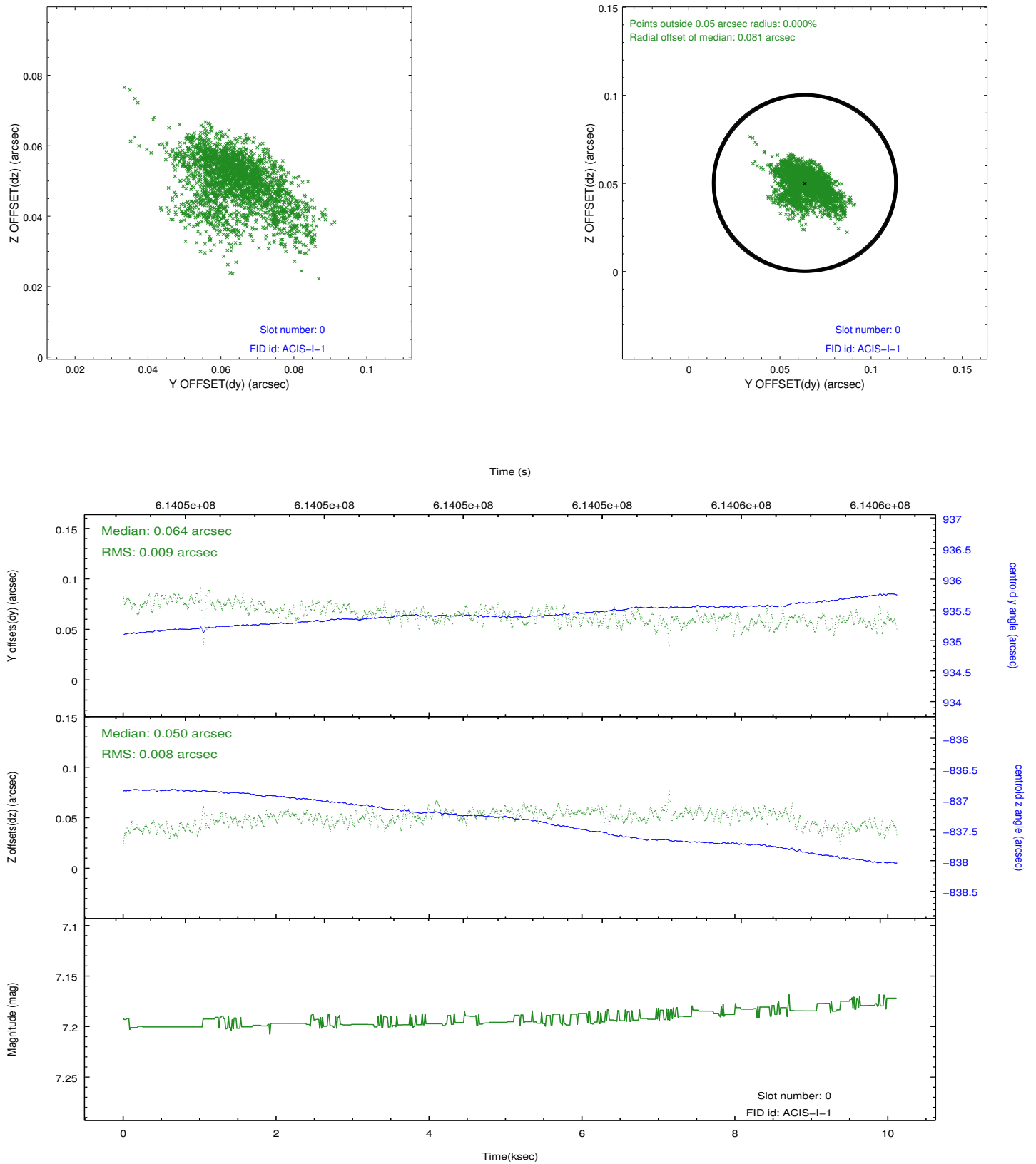


2.4.5 Slot 7

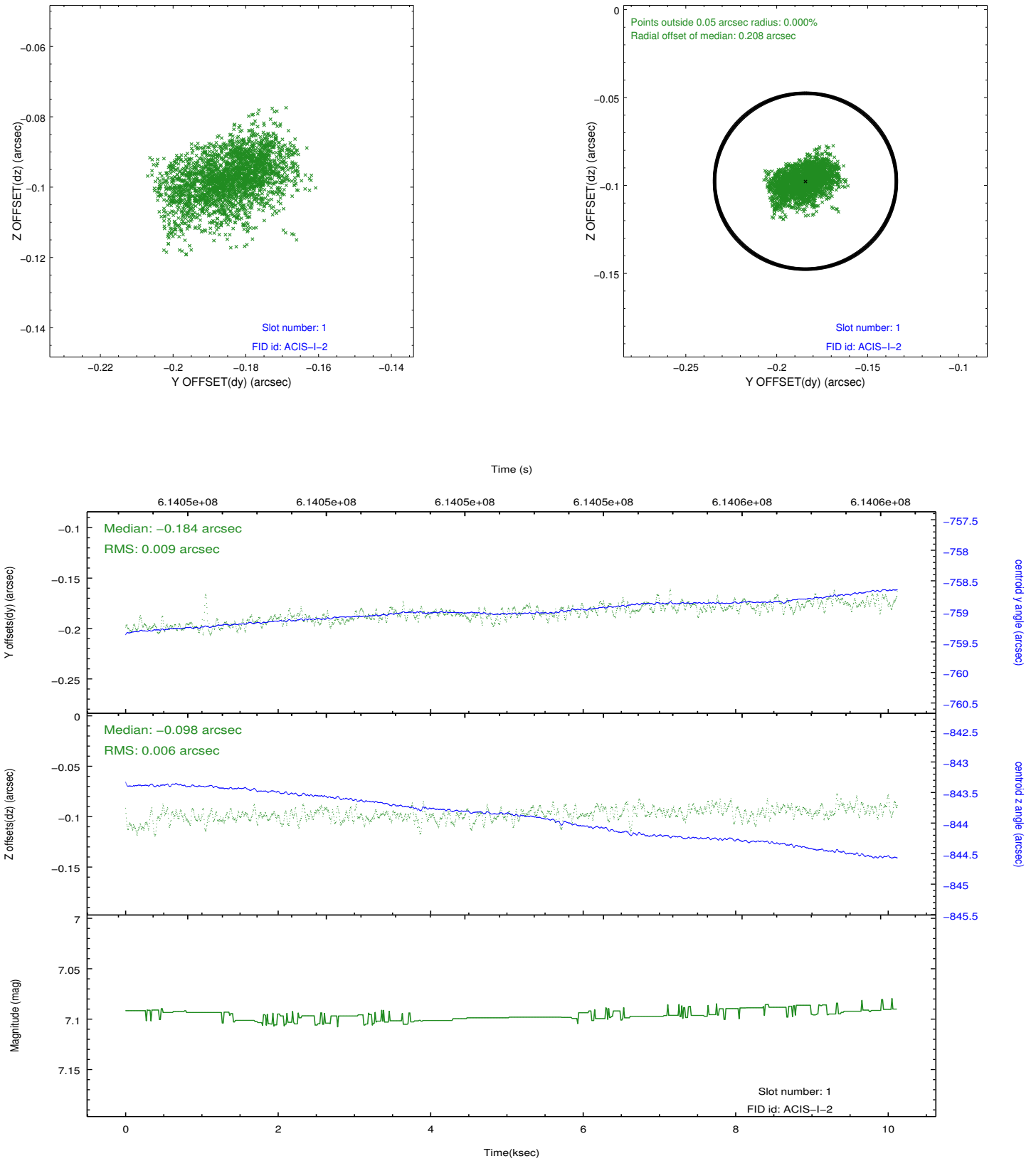


2.5 FID Slots

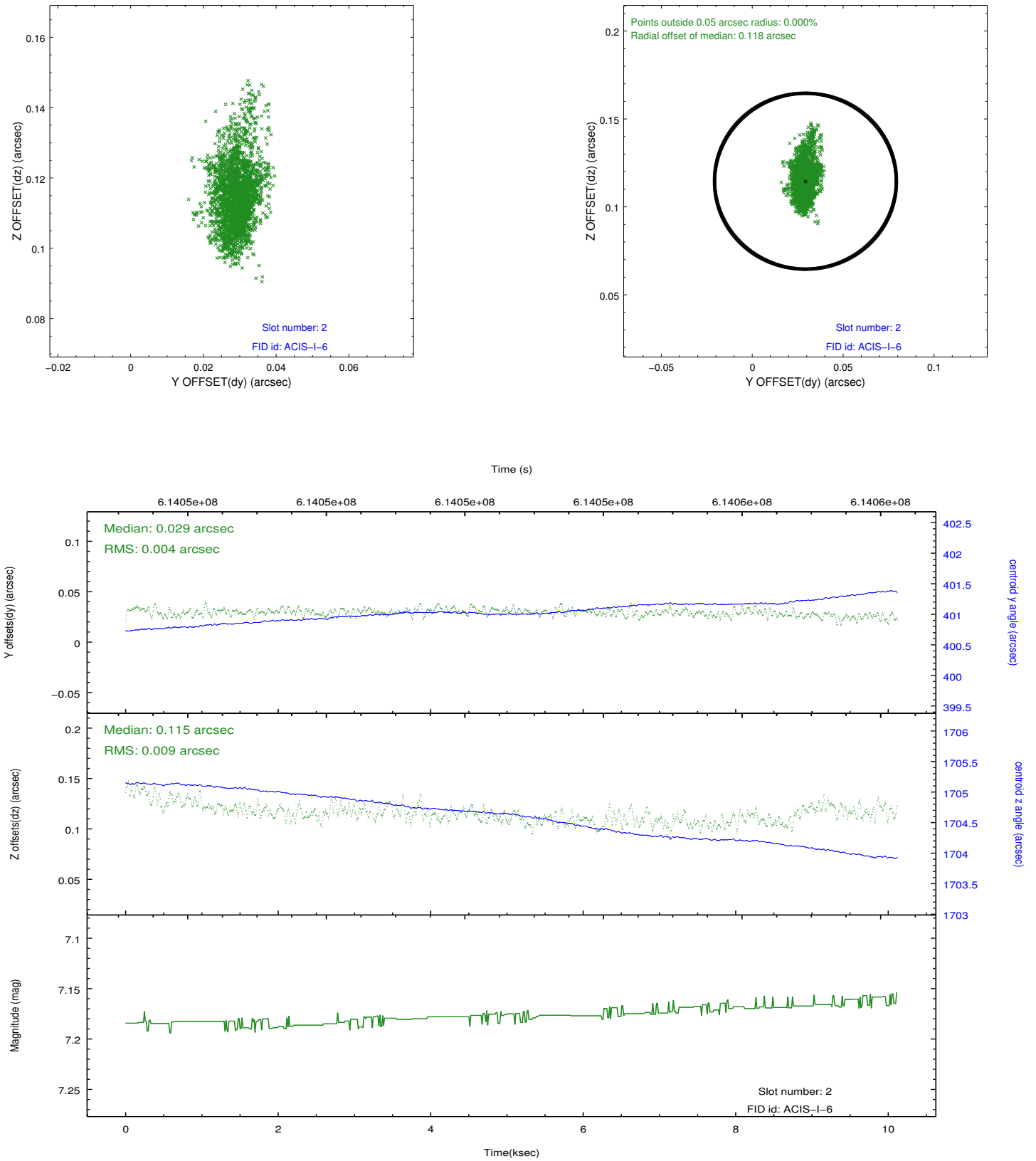
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.06.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.06868917644

A.2 Comments