

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 523 - L2 Version 3

Chandra X-Ray Center

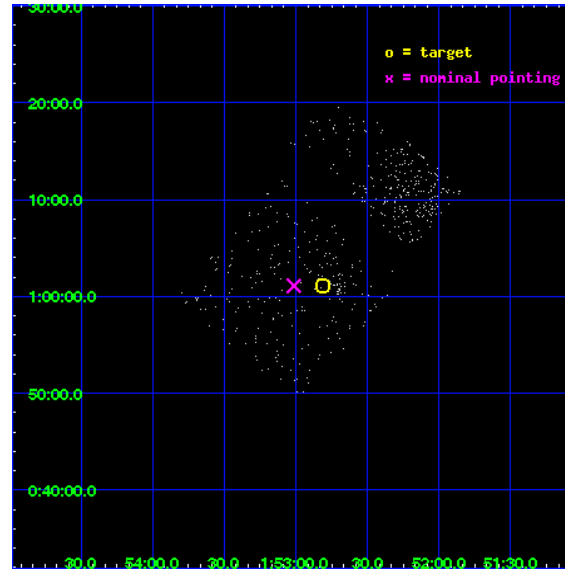
L2 Processing Date : Nov 19 2009

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1 Front

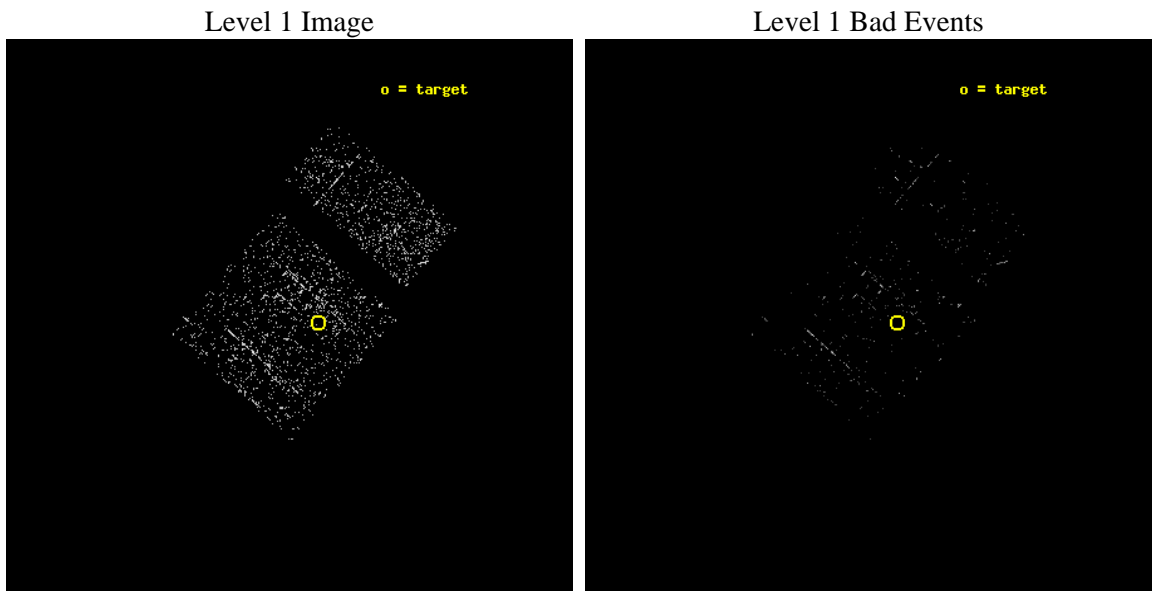
seq_num	800031	Sequence number
obs_id	523	Observation id
title	DETERMINATION OF H0/Q0	Proposal title
observer	DR. LEON VANSPEYBROECK	Principal investigator
object	A267	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	28.202917	Observer's specified target RA
dec_targ	1.019	Observer's specified target Dec
ra_nom	28.253332758944	Nominal RA
dec_nom	1.0183696750564	Nominal Dec
roll_nom	41.469736790899	Nominal Roll
revision	3	Processing version of data
ontime	60.800000056624	Sum of GTIs [s]
livetime	60.030113846543	Livetime [s]
ontime0	60.800000056624	Sum of GTIs [s]
ontime1	60.800000056624	Sum of GTIs [s]
ontime2	60.800000056624	Sum of GTIs [s]
ontime3	60.800000056624	Sum of GTIs [s]
ontime6	60.778295092285	Sum of GTIs [s]
ontime7	60.800000056624	Sum of GTIs [s]
l2events	493	Number of level 2 events



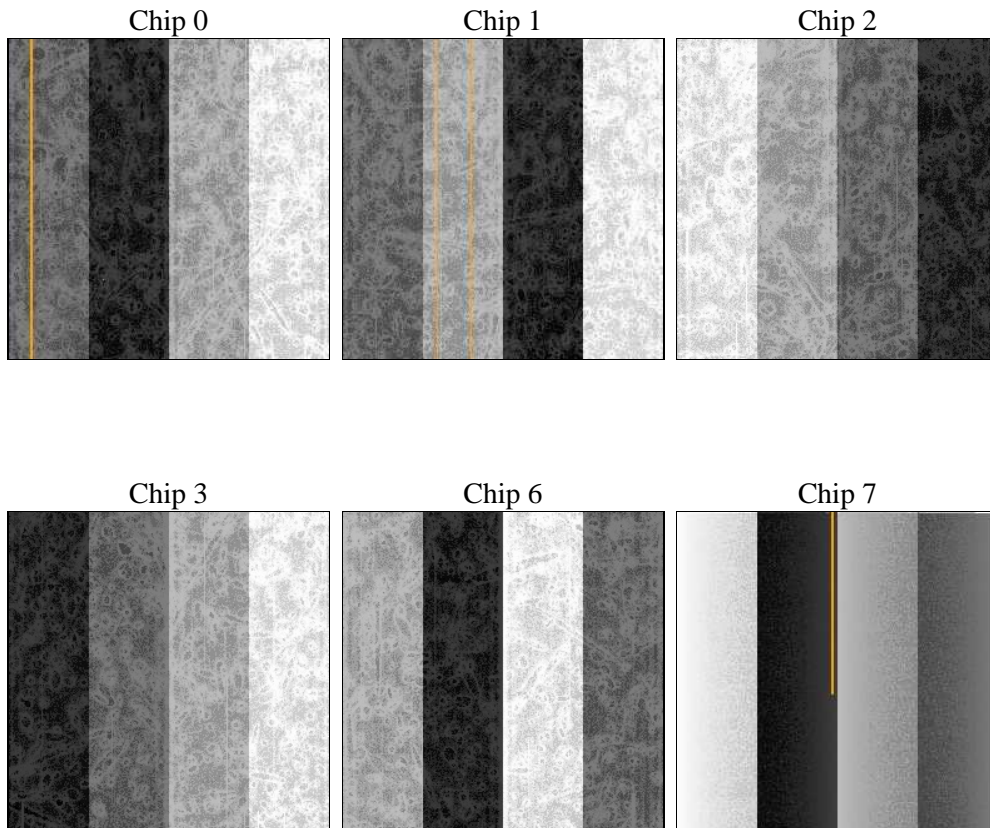
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	400.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	60.800000056624	Sum of GTIs [s]
caldsver	4.1.4	 	ontime0	60.800000056624	Sum of GTIs [s]
date	2009-11-19T21:41:52	Date and time of file creation	ontime1	60.800000056624	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	60.800000056624	Sum of GTIs [s]
			ontime3	60.800000056624	Sum of GTIs [s]
			ontime6	60.778295092285	Sum of GTIs [s]
			ontime7	60.800000056624	Sum of GTIs [s]
			l1events	3148	Number of level 1 events

2.1.4 Events

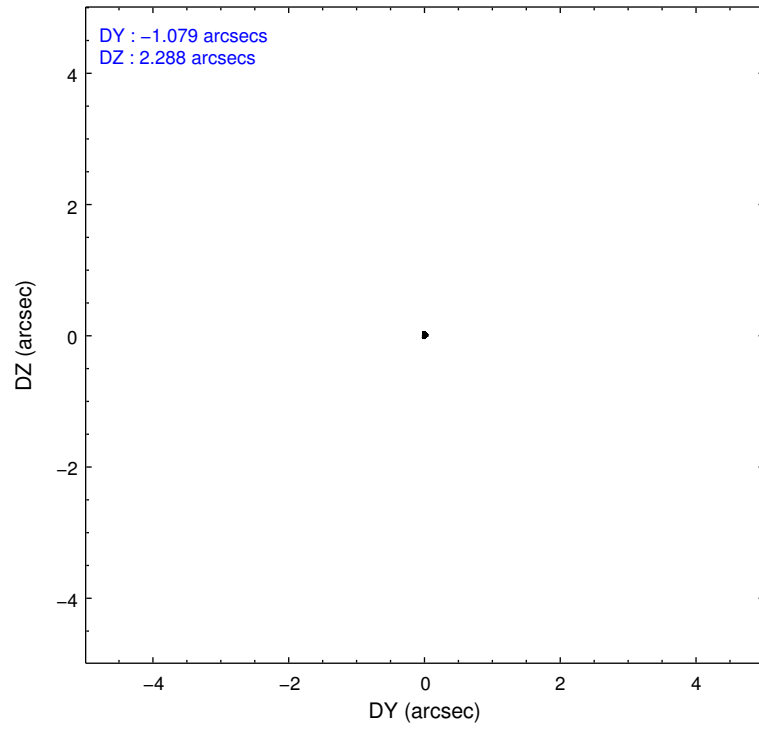
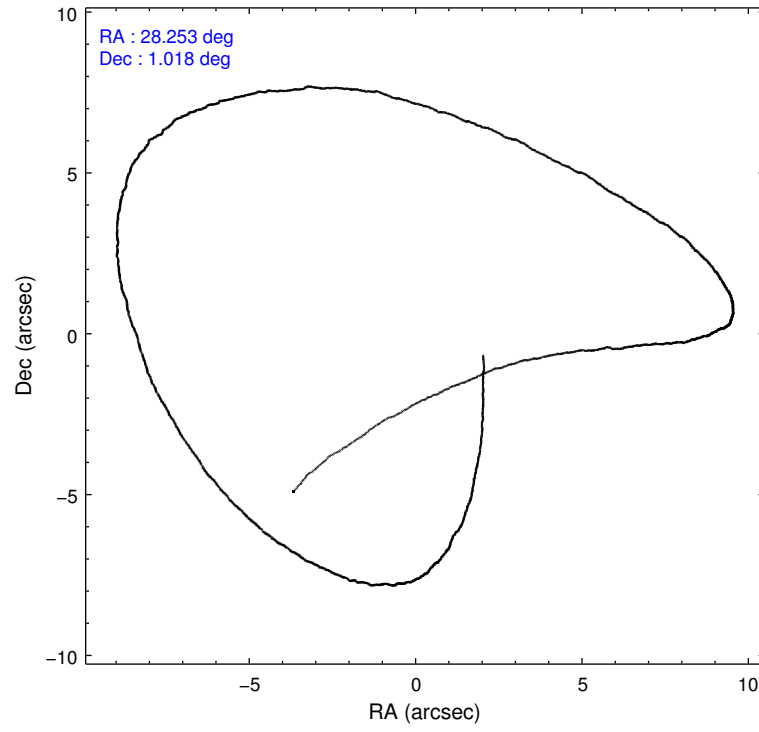
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	478	478	532	543	458	659
rejected events	423	414	476	453	419	440
rejected %	88%	86%	89%	83%	91%	66%

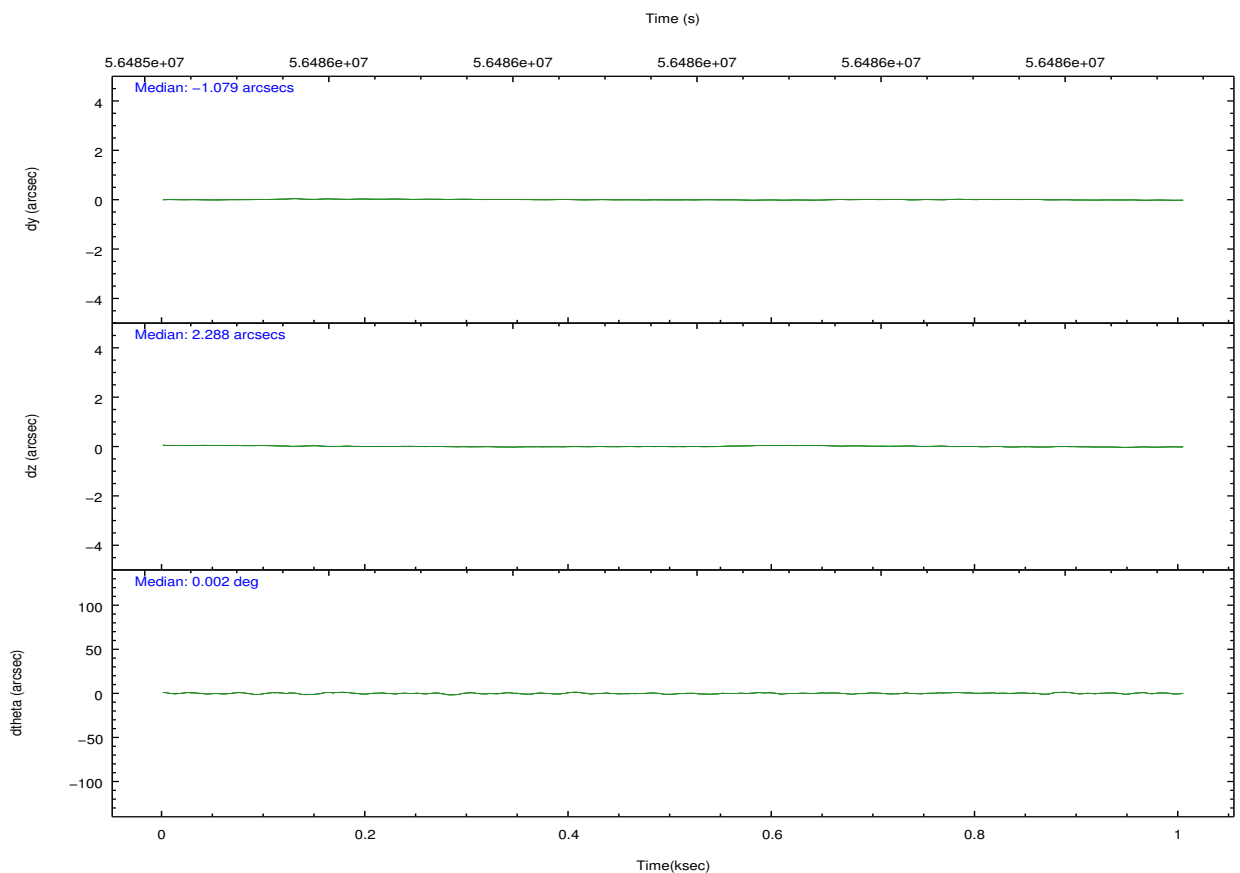
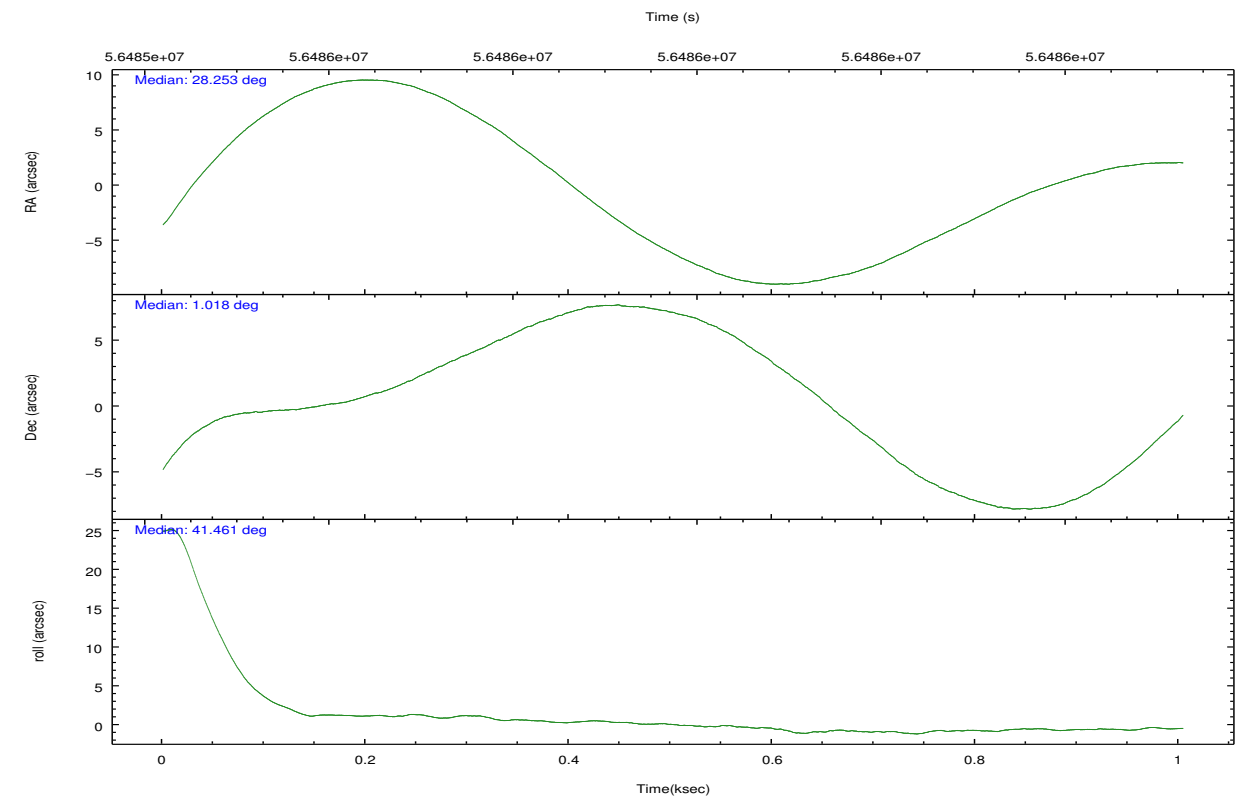
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	22	19	19	38	6	13
	4%	3%	3%	6%	1%	1%
grade 1 events	0	0	0	0	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	22	25	27	31	17	34
	4%	5%	5%	5%	3%	5%
grade 3 events	2	7	2	8	1	17
	0%	1%	0%	1%	0%	2%
grade 4 events	1	2	3	3	2	14
	0%	0%	0%	0%	0%	2%
grade 5 events	7	10	10	8	13	40
	1%	2%	1%	1%	2%	6%
grade 6 events	10	15	10	15	13	150
	2%	3%	1%	2%	2%	22%
grade 7 events	414	400	461	440	406	391
	86%	83%	86%	81%	88%	59%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	28.245767	28.25333275894368	Subarray requested	NONE	NONE
Pointing Dec	0.991396	1.018369675056422	Alternating exposures requested	N	N
Pointing Roll	41.259948	41.46973679089861	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	56485935.184000	56484443.10978			
Observation start date	1999-10-16T18:31:11	1999-10-16T18:07:23			
Observation end time	56486335.184000	56486479.272354			
Observation end date	1999-10-16T18:37:51	1999-10-16T18:41:19			
Read mode	TIMED	TIMED			

2.3 Aspect



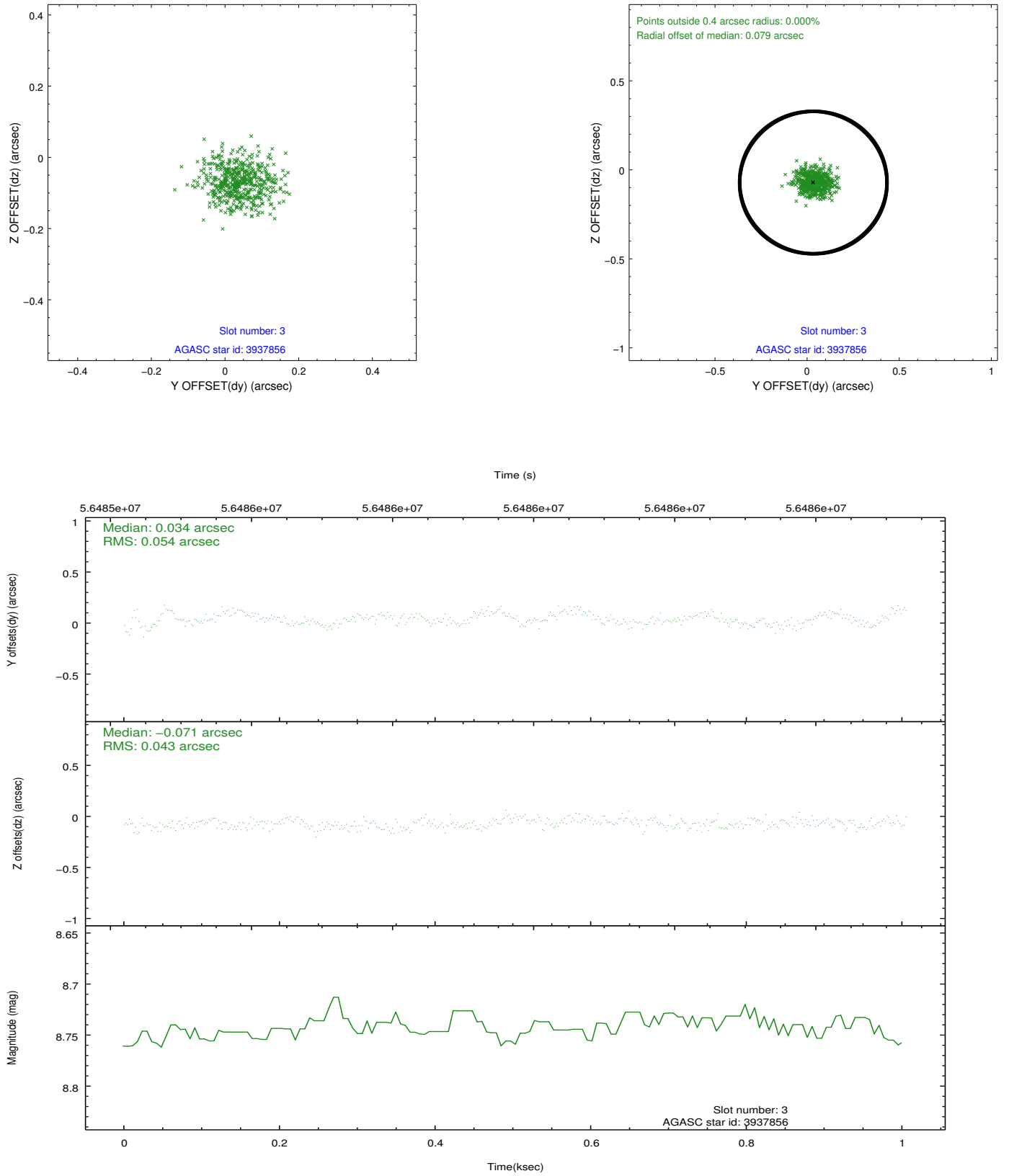


Slot Statistics

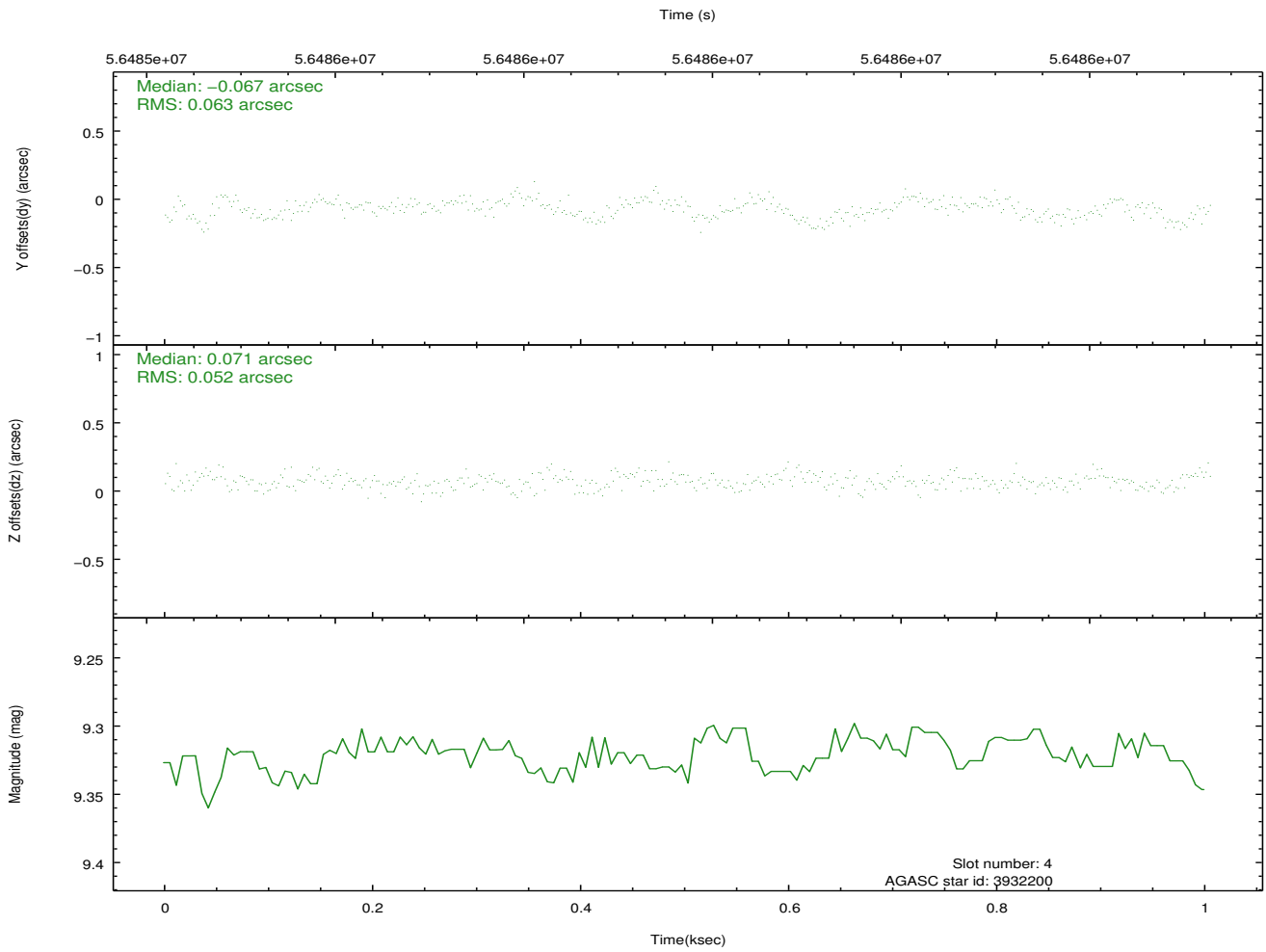
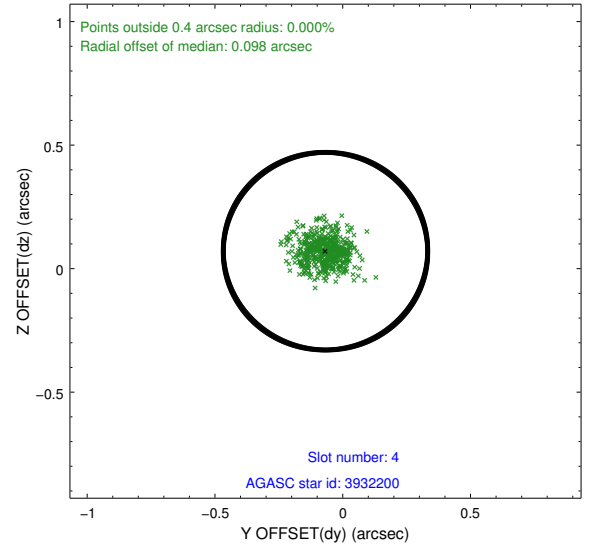
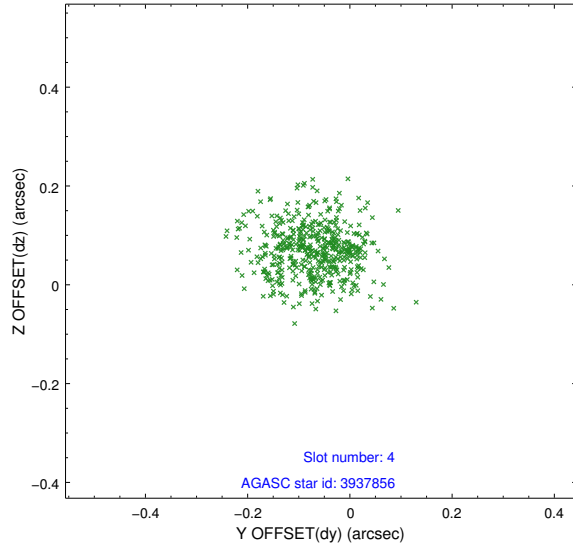
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.20	491	-0.050	0.048	0.009	0.018	0.000000	0.000000	-753.30	-831.82
1	FID	ACIS-I-4	7.22	491	0.100	0.022	0.008	0.015	0.000000	0.000000	2159.58	1072.51
2	FID	ACIS-I-5	7.23	491	-0.153	-0.002	0.010	0.018	0.000000	0.000000	-1802.90	1074.30
3	GUIDE	3937856	8.74	491	0.034	-0.071	0.073	0.118	27.502239	0.986318	-2020.03	1743.57
4	GUIDE	3932200	9.32	490	-0.067	0.071	0.088	0.145	28.826564	0.608712	663.25	-2418.26
5	GUIDE	3939408	9.59	491	0.008	0.028	0.097	0.147	28.595614	1.577682	2343.55	744.18
6	GUIDE	3933704	9.72	491	-0.013	0.007	0.105	0.173	28.709871	0.783788	771.90	-1669.50
7	GUIDE	3939256	9.95	490	0.035	-0.032	0.109	0.177	28.955841	0.906301	1725.29	-1926.58

2.4 Star Slots

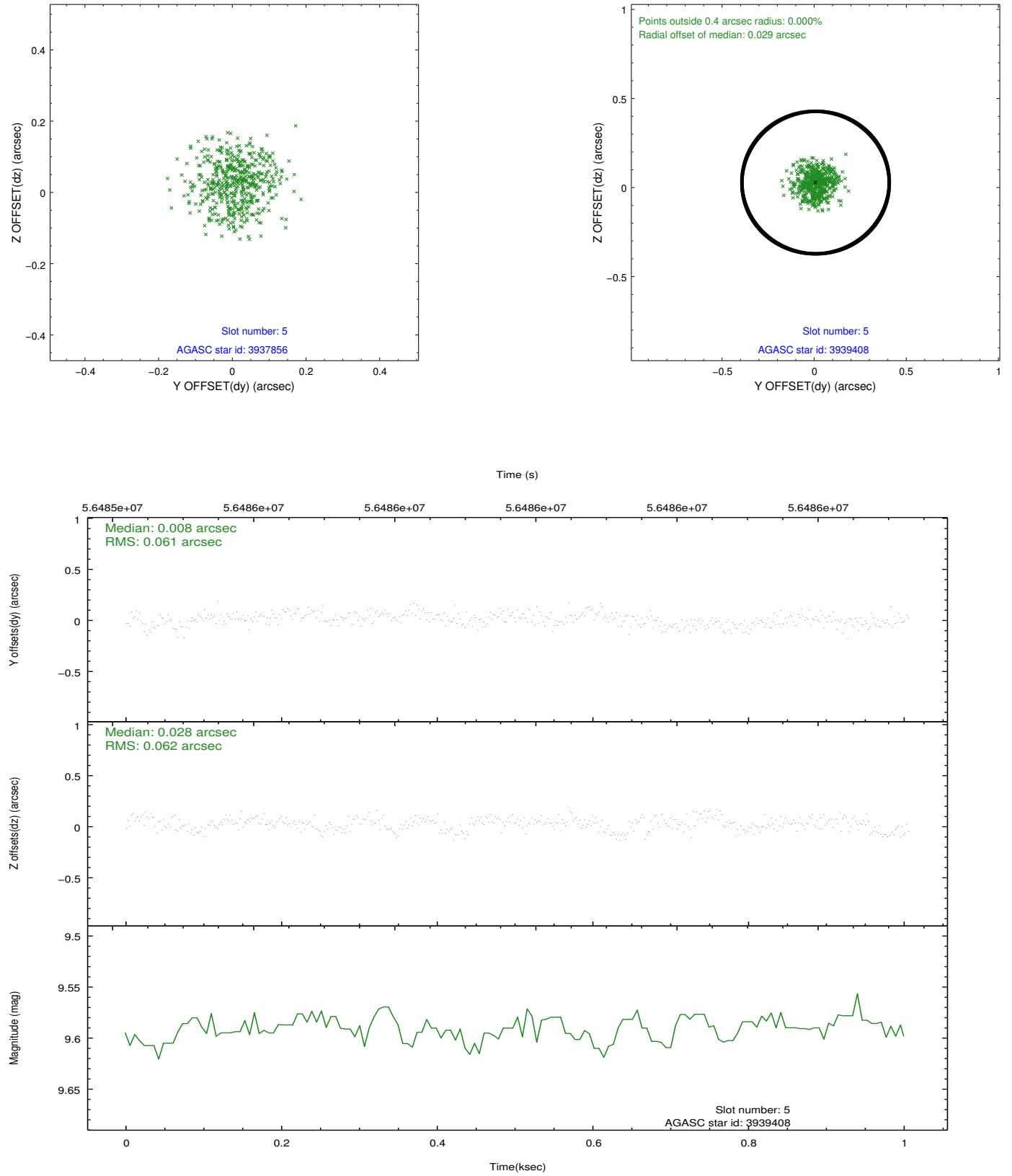
2.4.1 Slot 3



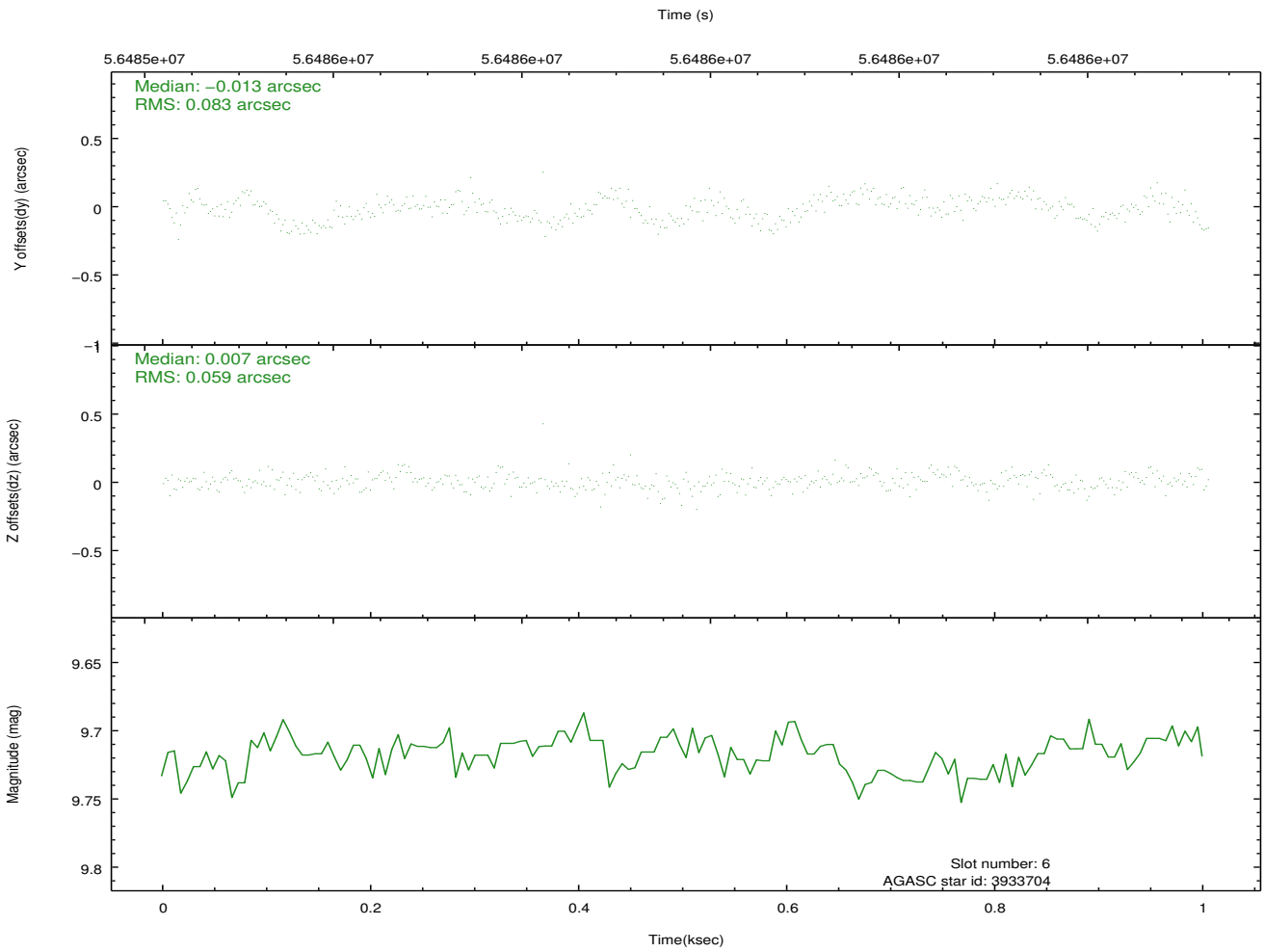
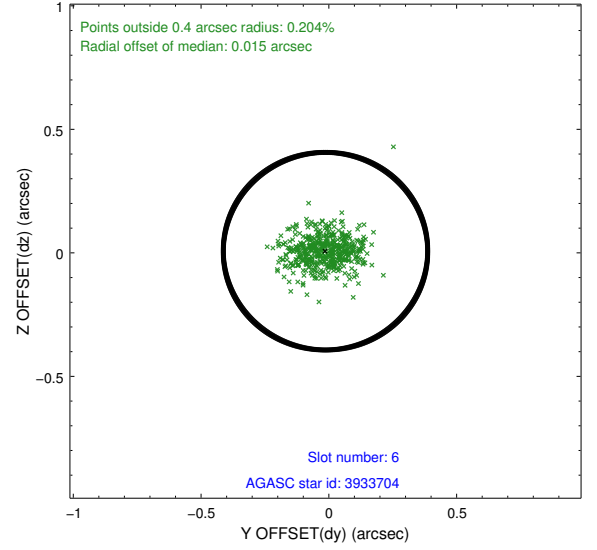
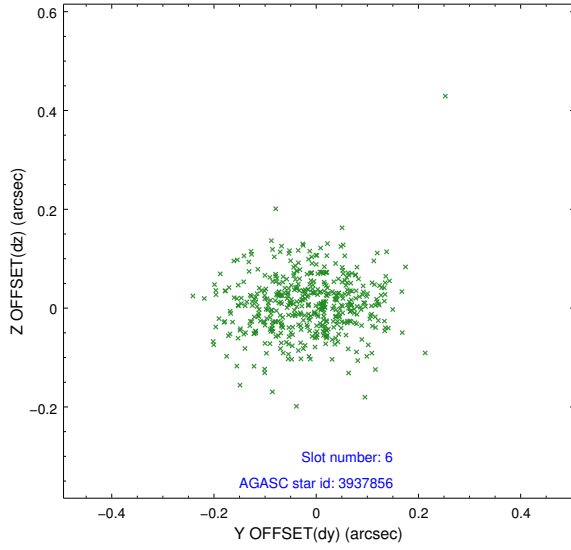
2.4.2 Slot 4



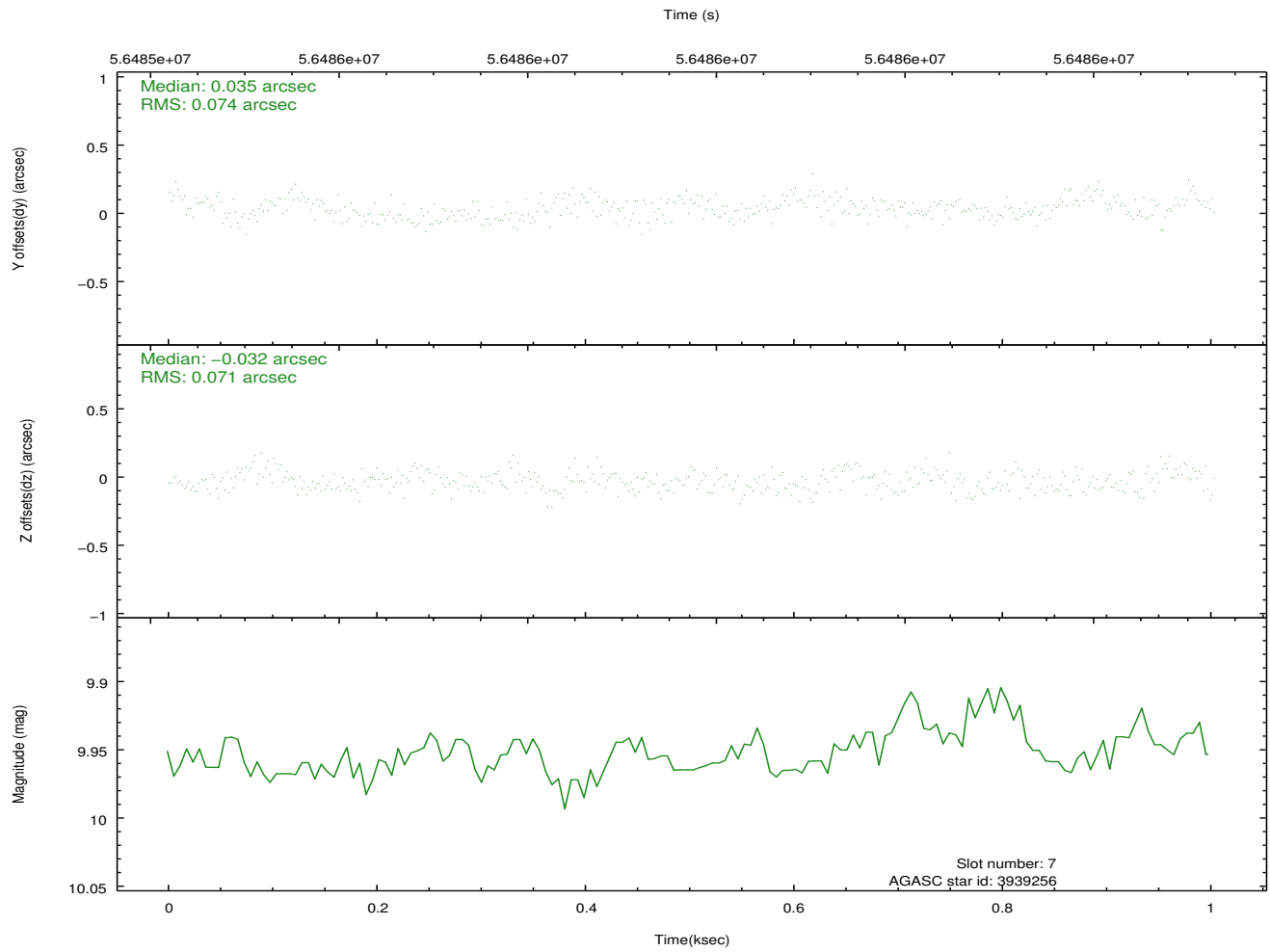
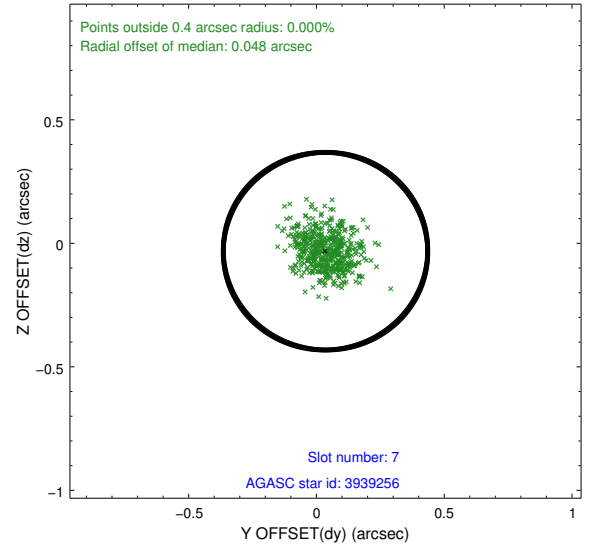
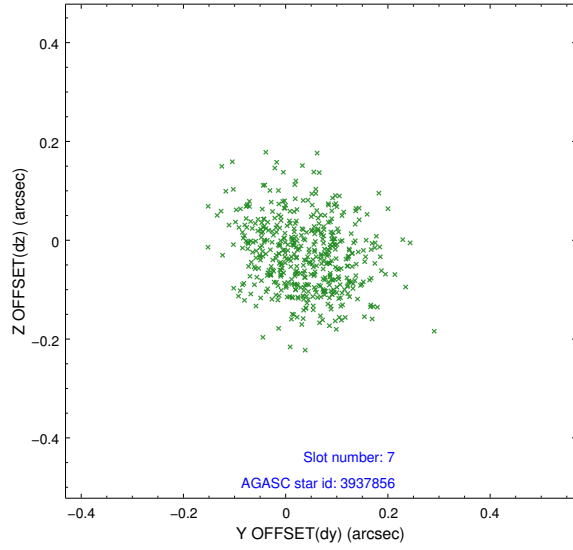
2.4.3 Slot 5



2.4.4 Slot 6

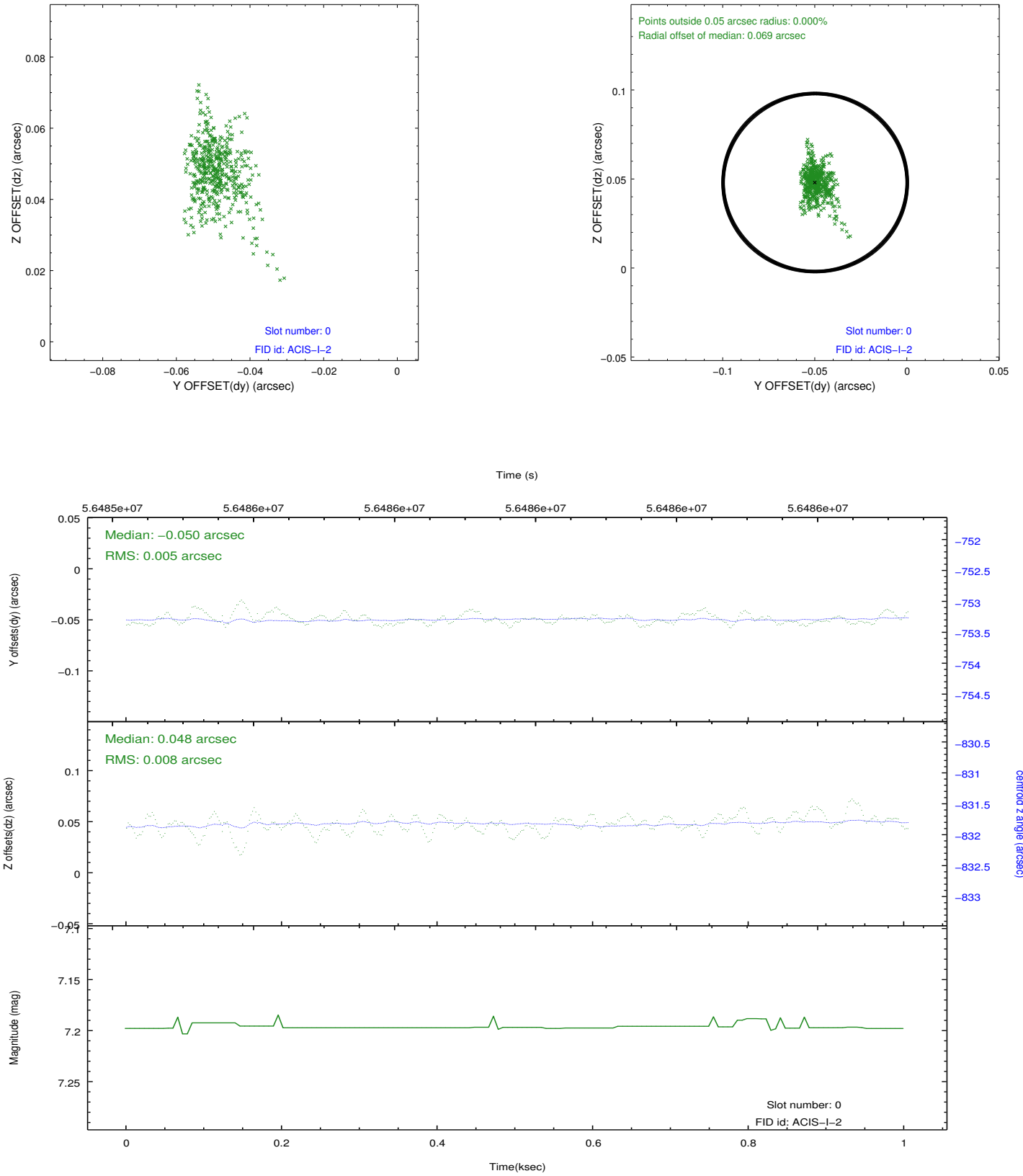


2.4.5 Slot 7

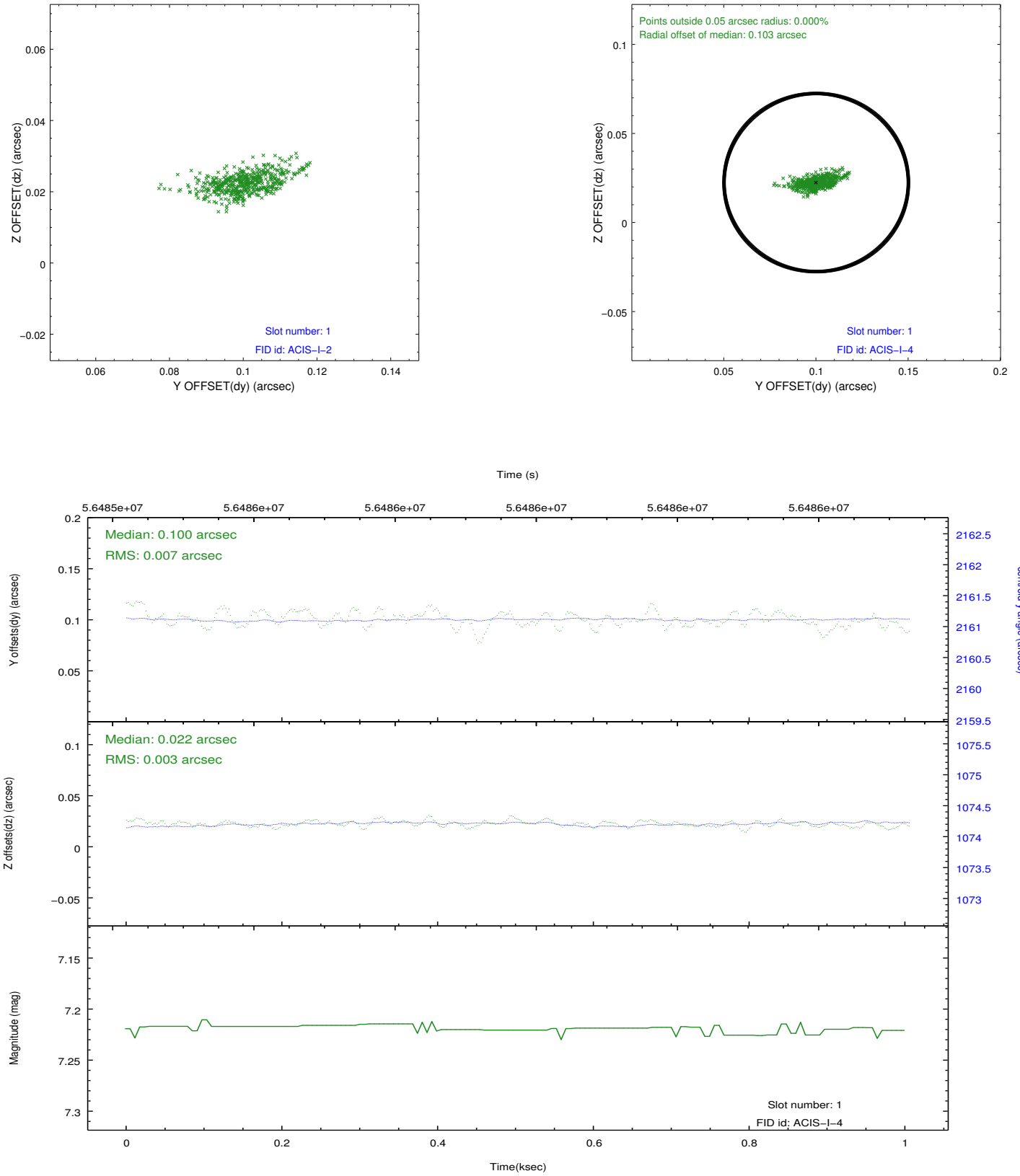


2.5 FID Slots

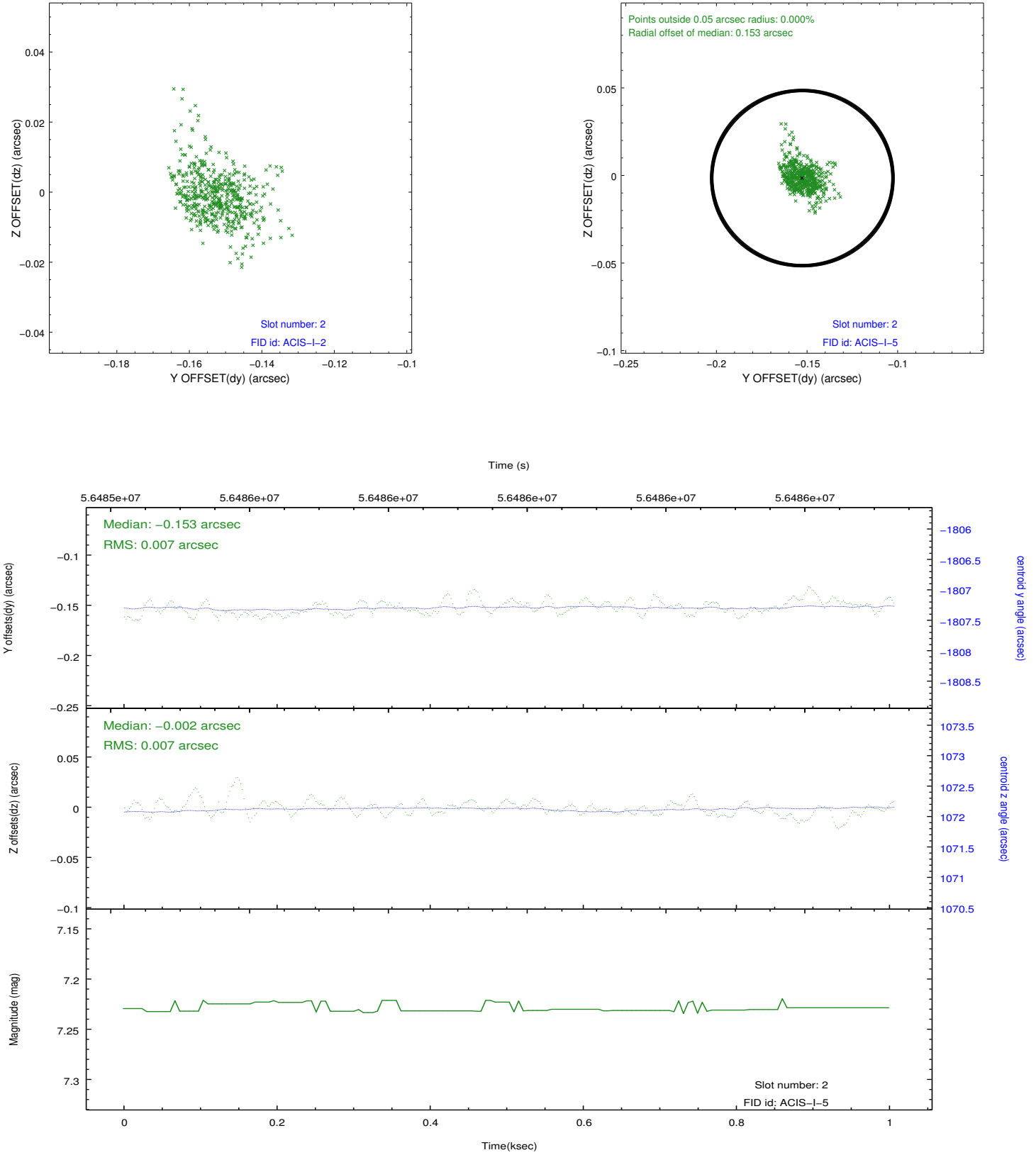
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.02.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	0.063

A.2 Comments

The front-end processor designated FEP0 suffered from a rare problem. As a result, the top half of the bias-map for CCD_ID 7 (the CCD associated with FEP0) was corrupted for part of the observation and many invalid events were telemetered for this region. The standard pipeline processing tools identify the problem and remove the spurious events from the Level 2 event file during the interval in question.

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Charge time for this ObsId remains at previous value of 0.063 ksec, although with the current processing the charge time would have been 0.060 ksec.

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