

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 3905 - L2 Version 001
Chandra X-Ray Center

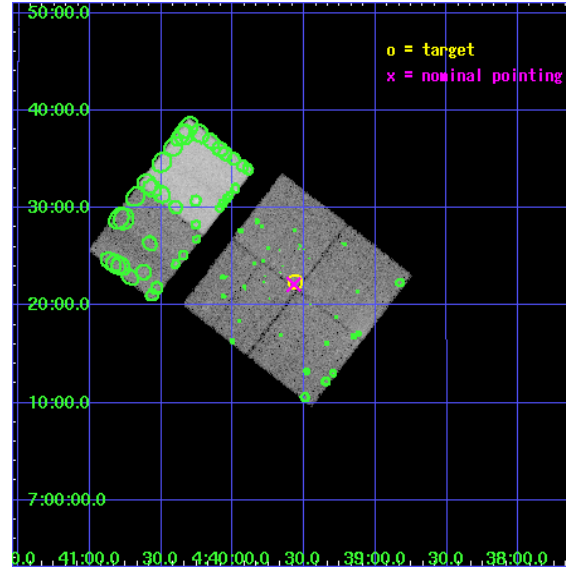
L2 Processing Date : Jun 22 2006

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1 Front

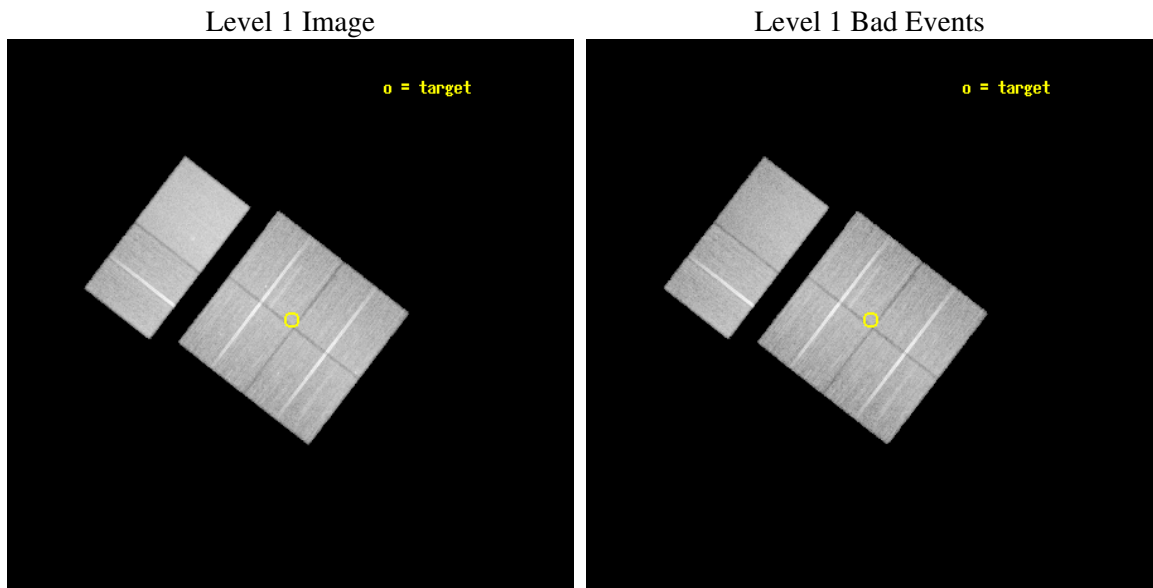
seq_num	500384
obs_id	3905
title	THE ORIGIN OF X-RAY RICH GAMMA-RAY BURSTS: HIGH-Z EVENTS AND NEW COSMIC EXPLOSIONS
observer	Dr Luigi Piro
object	GRB031220
dtcycle	0
cycle	P
ra_targ	69.891667
dec_targ	7.373611
ra_nom	69.892860143117
dec_nom	7.3691380689897
roll_nom	307.75552956642
revision	2
ontime	40175.999850333
livetime	39667.267149145
ontime0	40175.999850333
ontime1	40175.999850333
ontime2	40175.999850333
ontime3	40175.999850333
ontime6	40172.758840144
ontime7	40175.999850333
l2events	253995



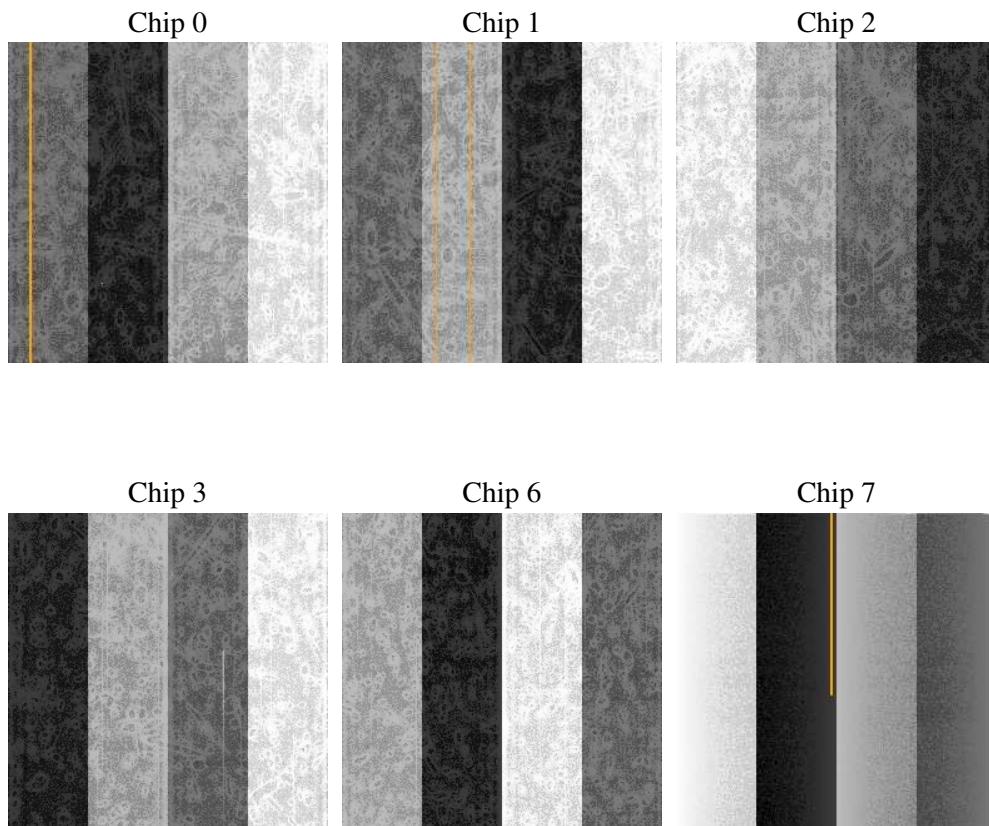
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-06-22T08:58:05
revision	2

sched_exp_time	40000.000000
ontime	40418.647577703
ontime0	40418.647577703
ontime1	40418.647577703
ontime2	40418.647577703
ontime3	40418.647577703
ontime6	40415.406567514
ontime7	40418.647587627
l1events	1534183

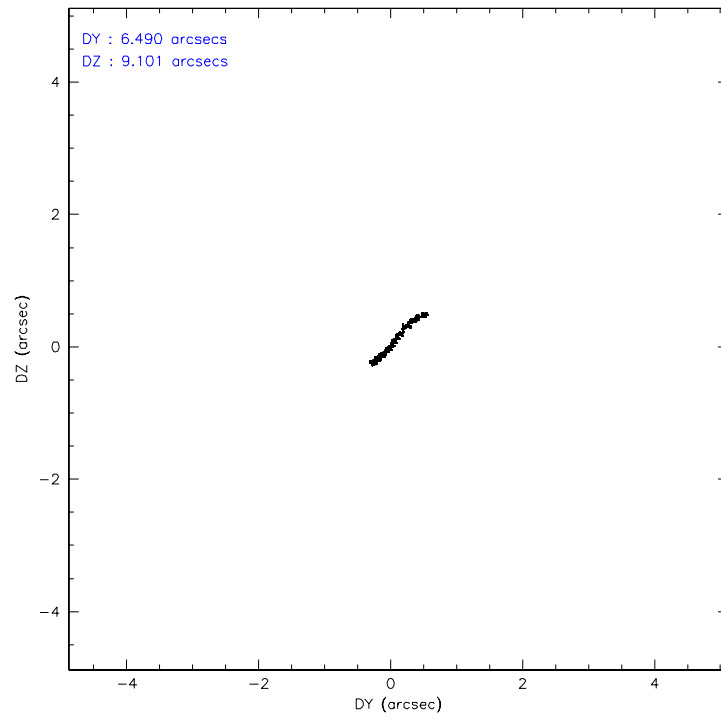
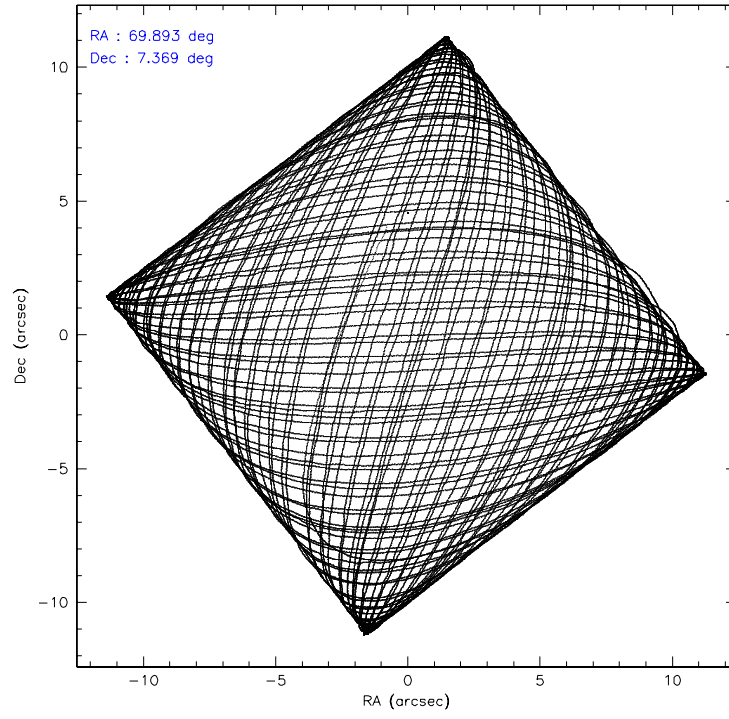
2.1.4 Events

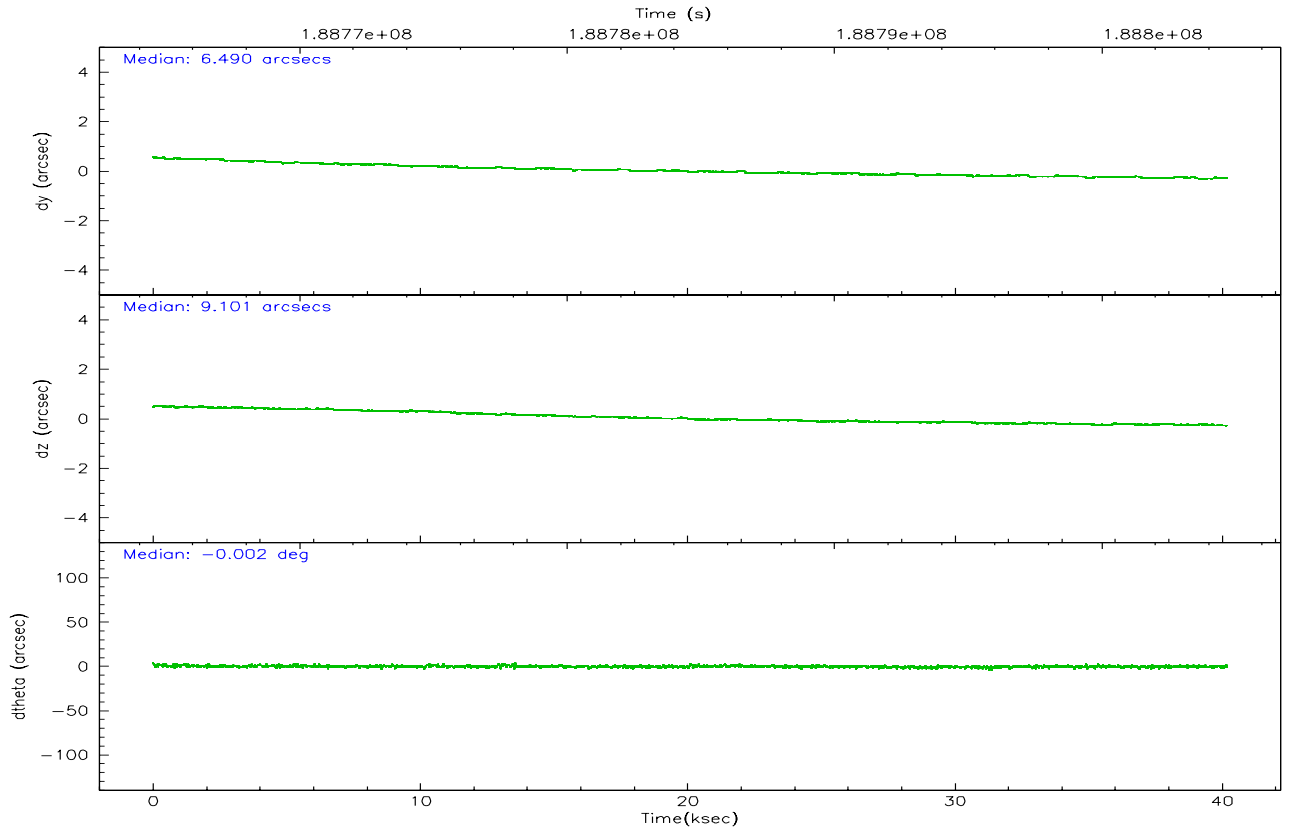
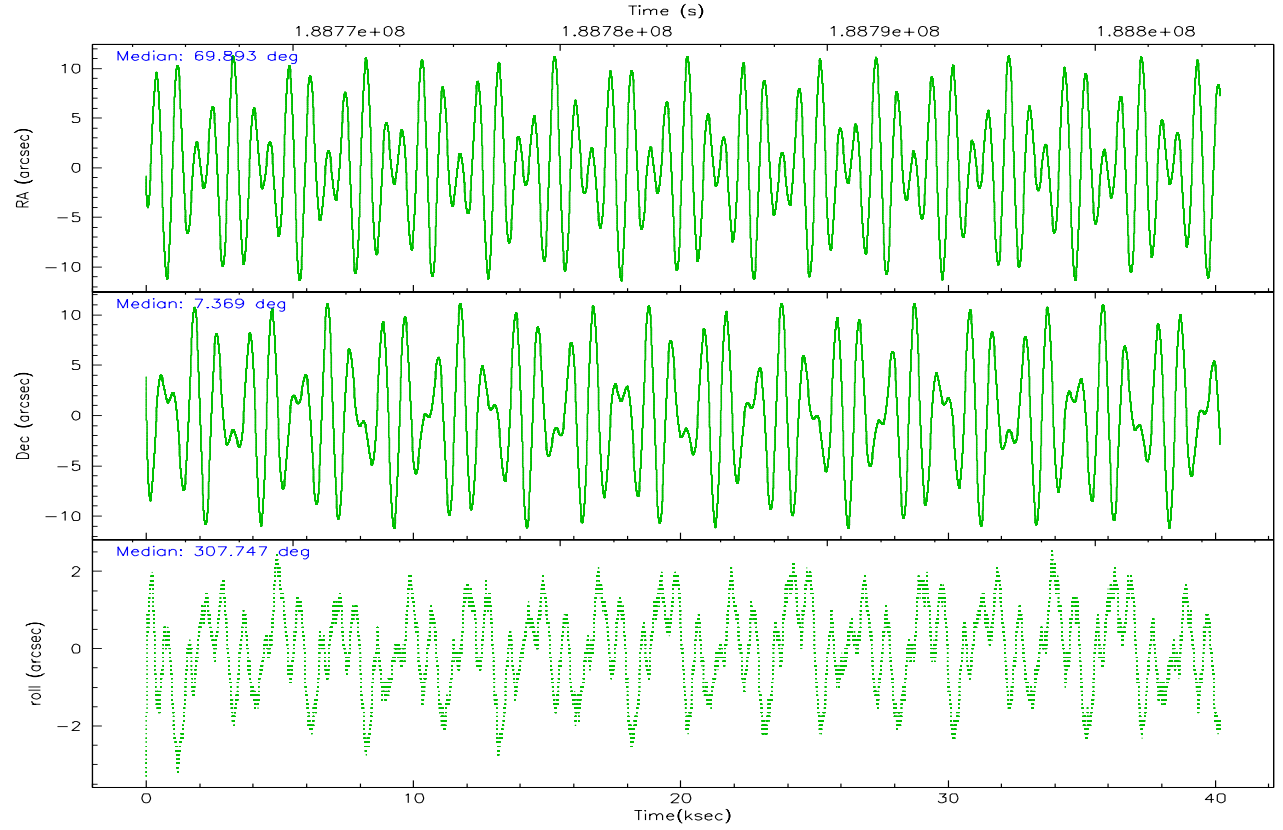
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	228540	231547	244088	240012	254921	335075	grade 0 events	13586	13641	13027	12920	11724	6915
rejected events	197841	198790	215099	210875	225090	209194		5%	5%	5%	5%	4%	2%
rejected %	86%	85%	88%	87%	88%	62%	grade 1 events	140	103	177	128	125	206
								0%	0%	0%	0%	0%	0%
							grade 2 events	6444	6930	5989	5531	6254	31335
								2%	2%	2%	2%	2%	9%
							grade 3 events	2964	3138	2681	2829	2949	6309
								1%	1%	1%	1%	1%	1%
							grade 4 events	2726	3073	2663	2878	2917	6114
								1%	1%	1%	1%	1%	1%
							grade 5 events	10167	10961	9756	11130	11894	21743
								4%	4%	3%	4%	4%	6%
							grade 6 events	5164	6163	4815	5169	6177	75975
								2%	2%	1%	2%	2%	22%
							grade 7 events	187349	187538	204980	199427	212881	186478
								81%	80%	83%	83%	83%	55%

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	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	69.867265	69.89286014311749	Alternating exposures requested	N	N
Pointing Dec	7.379396	7.369138068989713	Primary exposure time	0.000000	3.2
Pointing Roll	307.550135	307.7555295664156			
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	188764692.184000	188763505.38702			
Observation start date	2003-12-25T18:37:08	2003-12-25T18:18:25			
Observation end time	188804692.184000	188805561.65135			
Observation end date	2003-12-26T05:43:48	2003-12-26T05:59:21			
Read mode	TIMED	TIMED			

2.3 Aspect



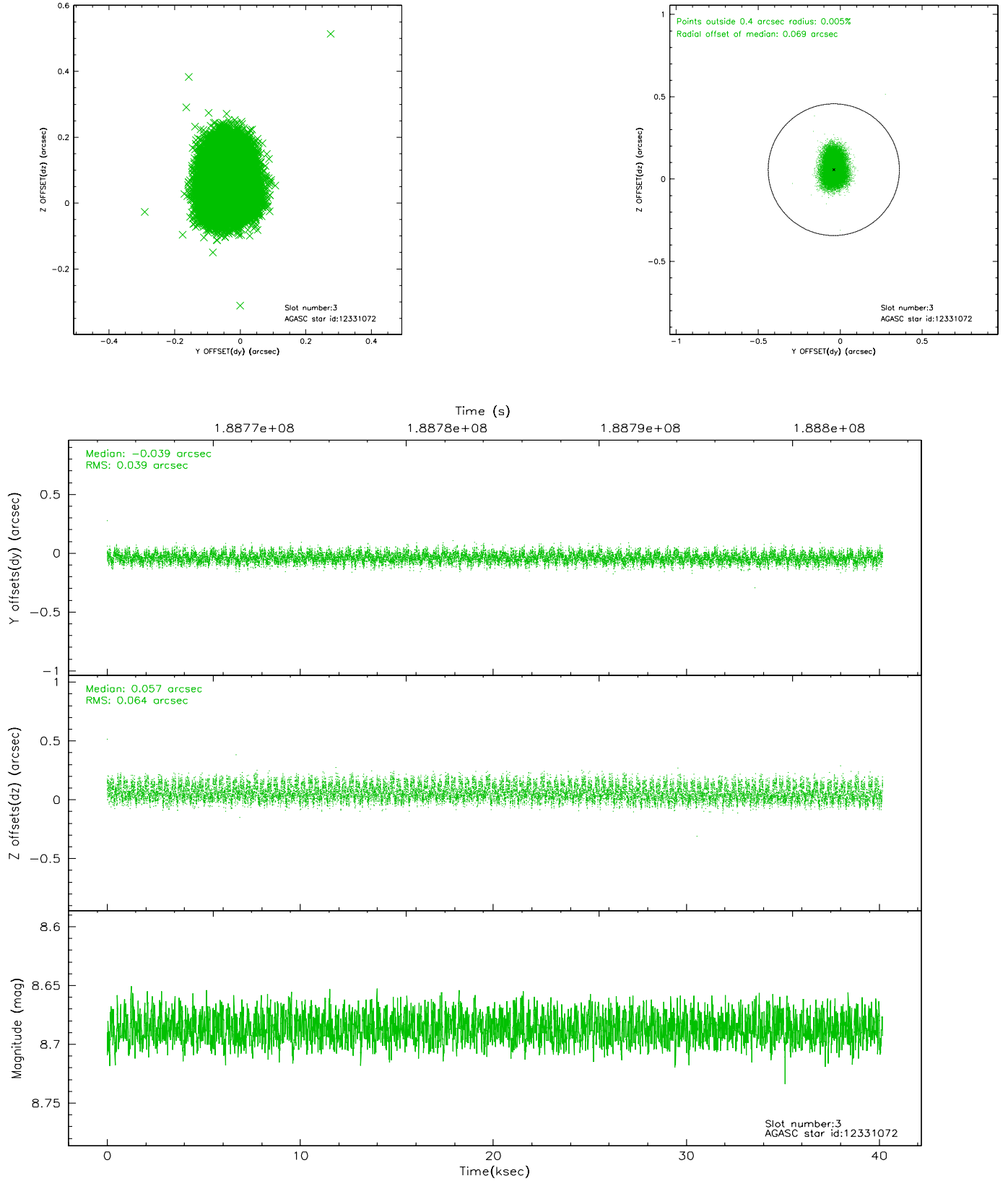


Slot Statistics

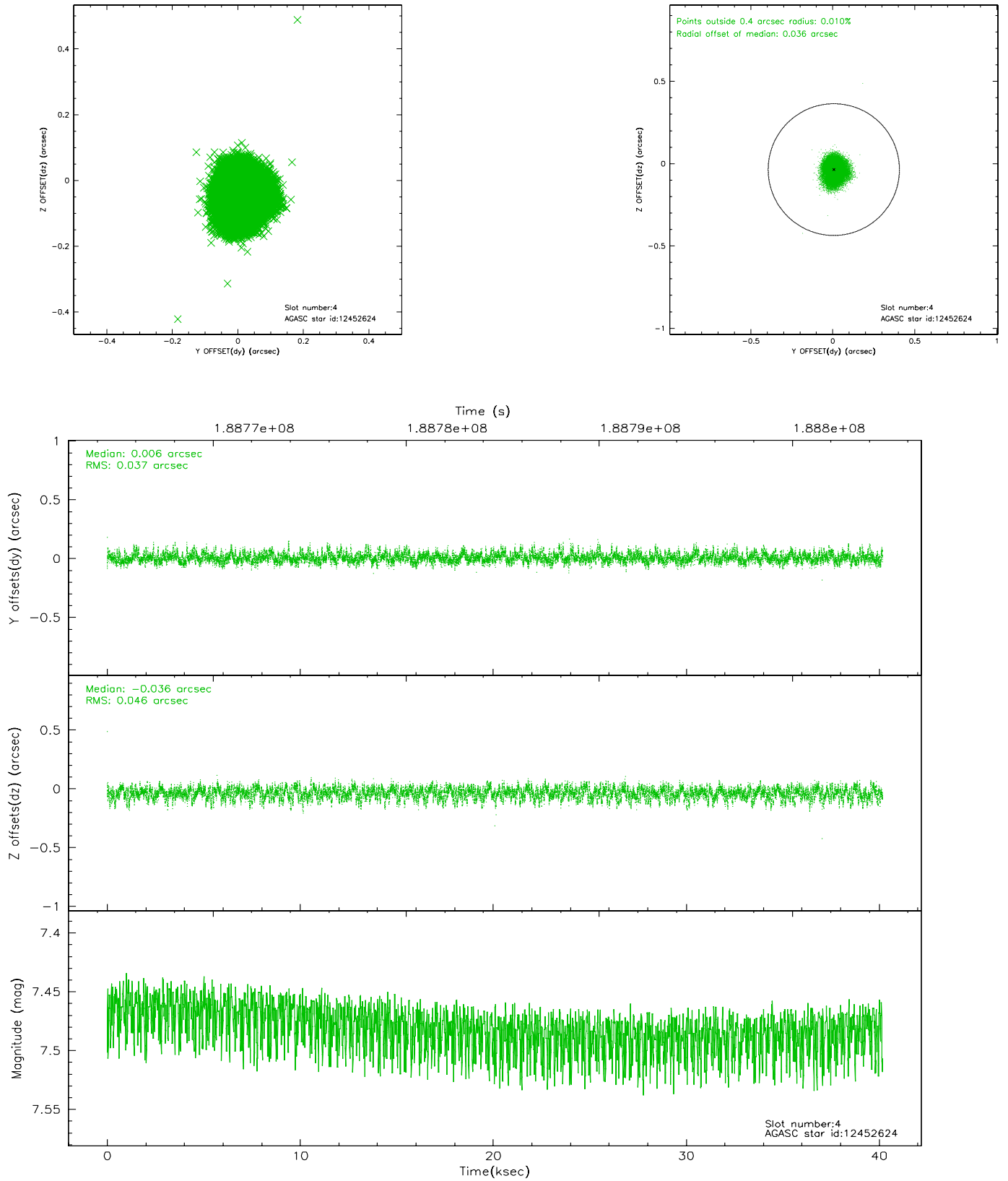
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	9801	-0.070	0.100	0.011	0.018	0.000000	0.000000	933.10	-832.51
1	FID	ACIS-I-2	7.14	9800	-0.063	-0.058	0.011	0.019	0.000000	0.000000	-760.98	-839.11
2	FID	ACIS-I-4	7.18	9800	0.038	0.025	0.010	0.017	0.000000	0.000000	2153.09	1067.20
3	GUIDE	12331072	8.69	19593	-0.039	0.057	0.080	0.126	69.220131	7.248777	-1036.50	-2117.60
4	GUIDE	12452624	7.48	19600	0.006	-0.036	0.063	0.101	69.476403	7.317631	-674.38	-1241.56
5	GUIDE	12455320	8.61	19597	0.078	0.003	0.064	0.105	69.662131	6.874787	993.97	-1687.91
6	GUIDE	12456440	8.12	19600	0.036	-0.063	0.056	0.091	69.999650	7.271253	597.07	137.84
7	GUIDE	89403544	7.89	19601	-0.083	0.042	0.060	0.097	69.809992	7.987097	-1858.89	1171.58

2.4 Star Slots

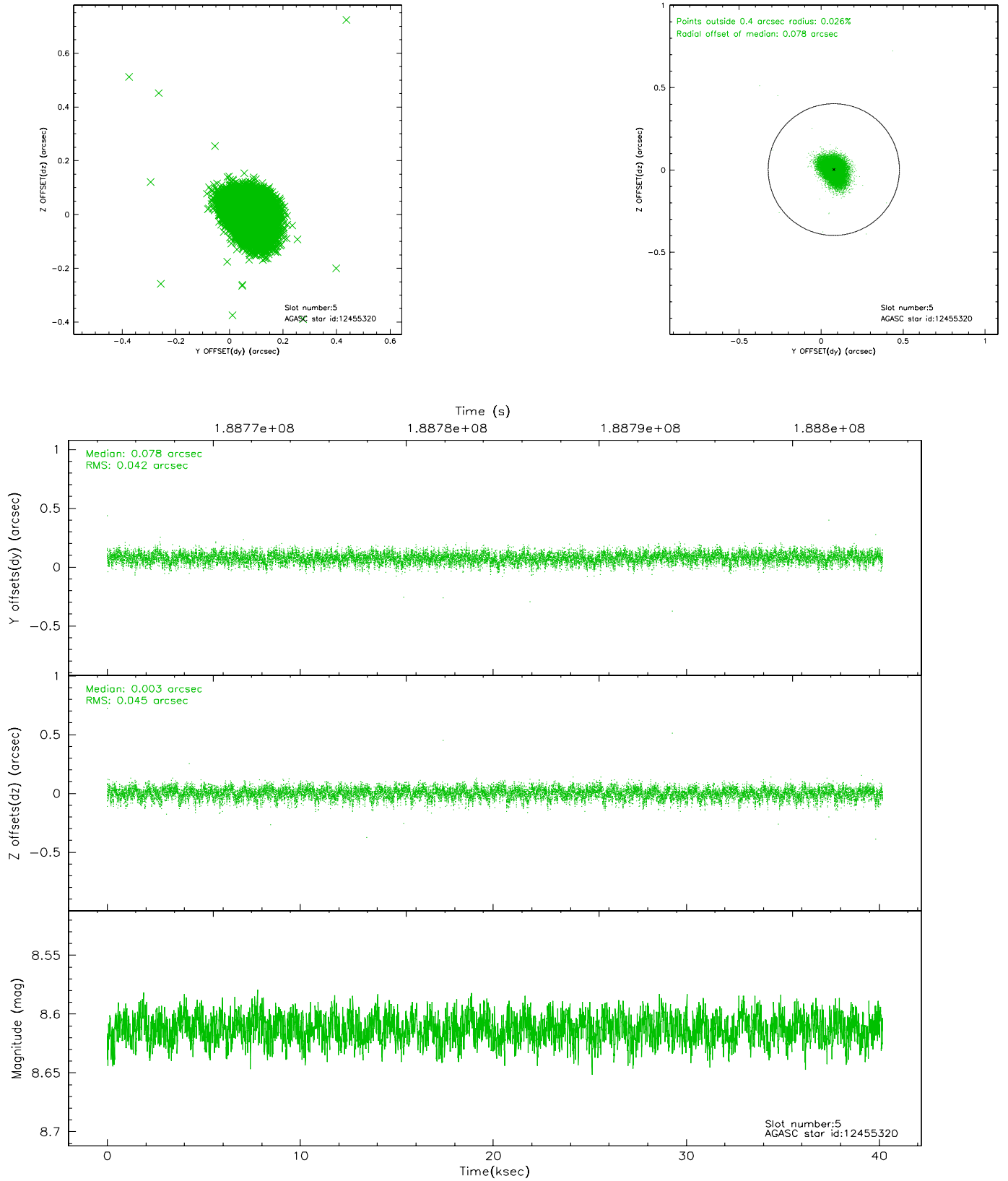
2.4.1 Slot 3



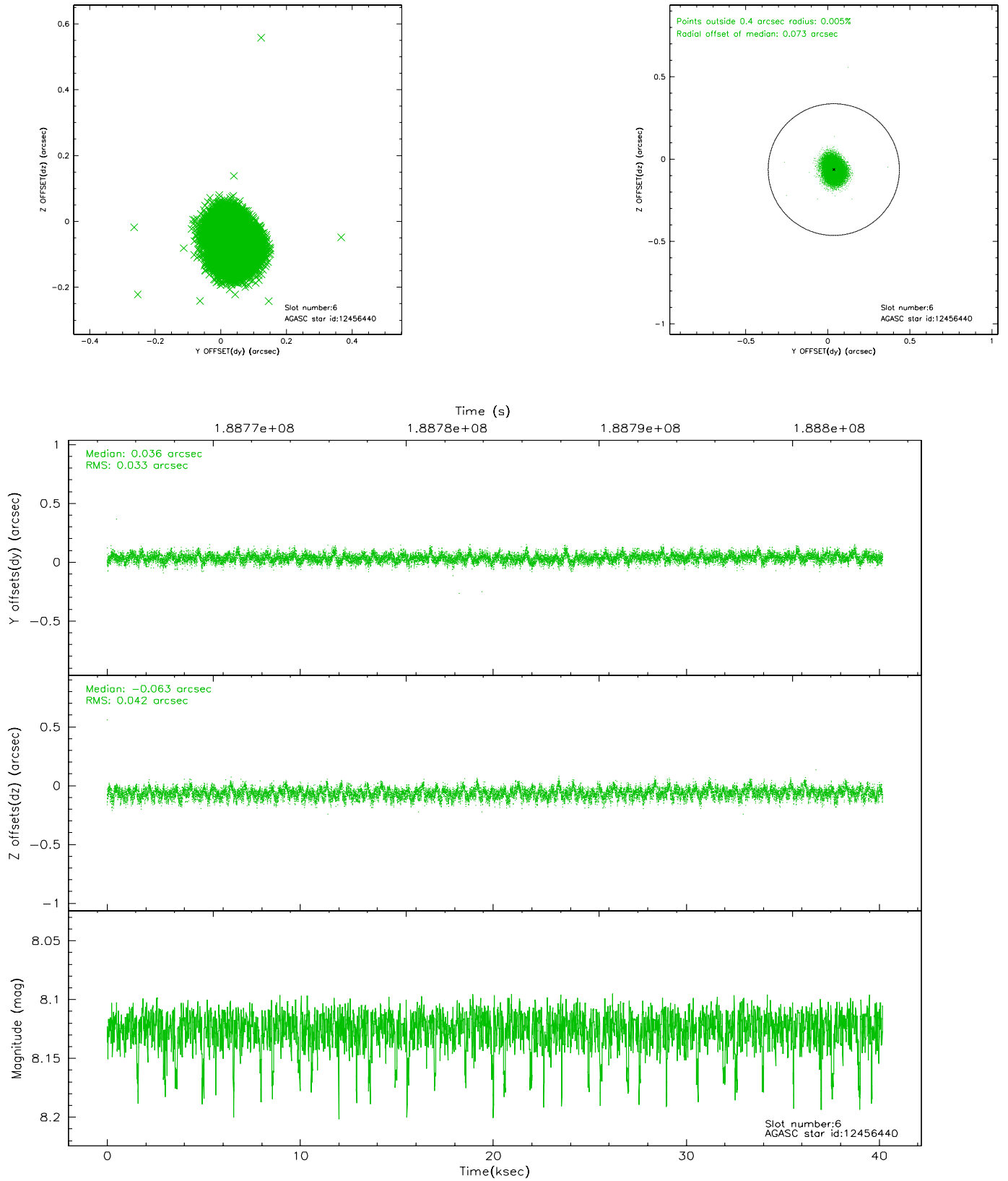
2.4.2 Slot 4



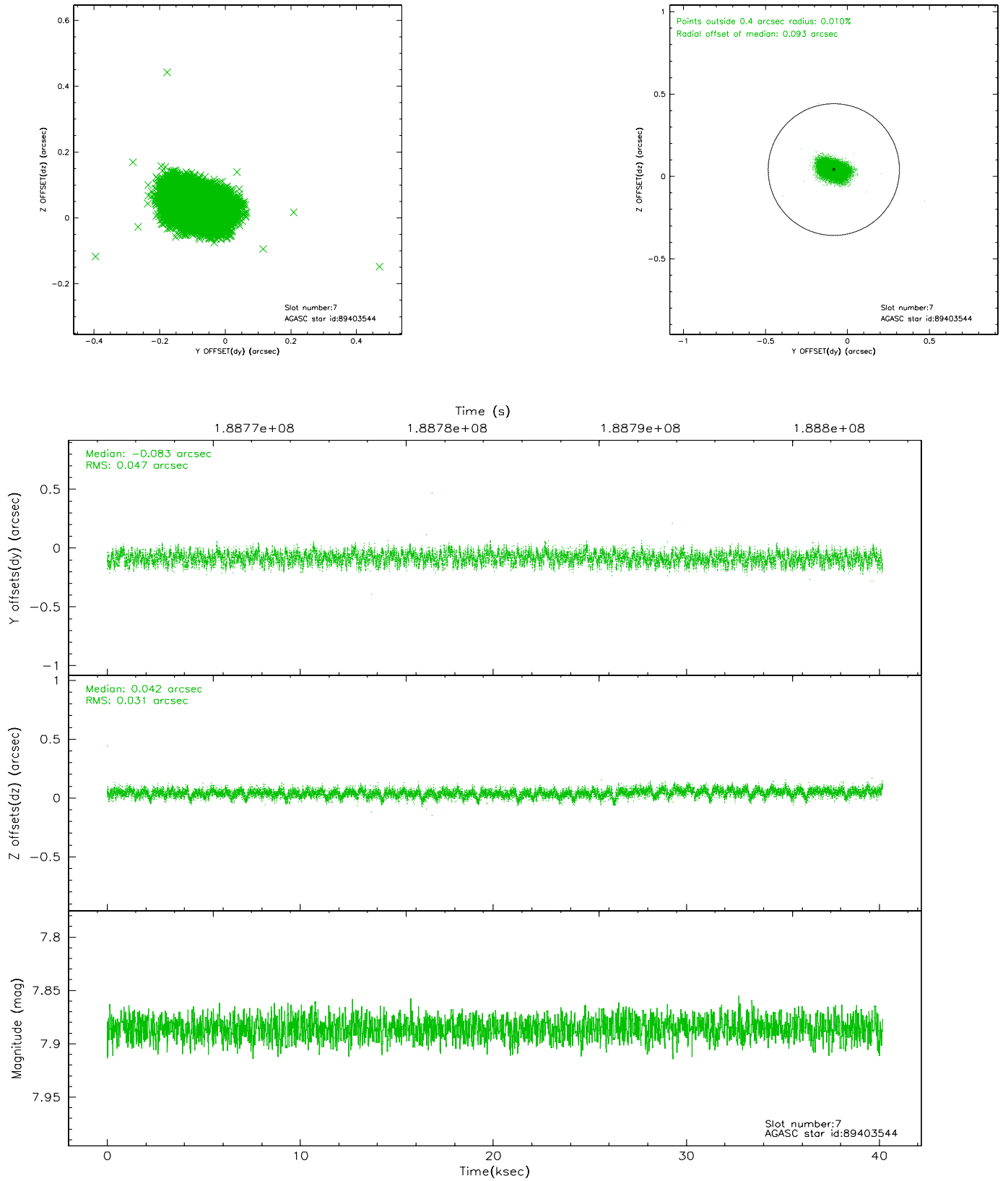
2.4.3 Slot 5



2.4.4 Slot 6

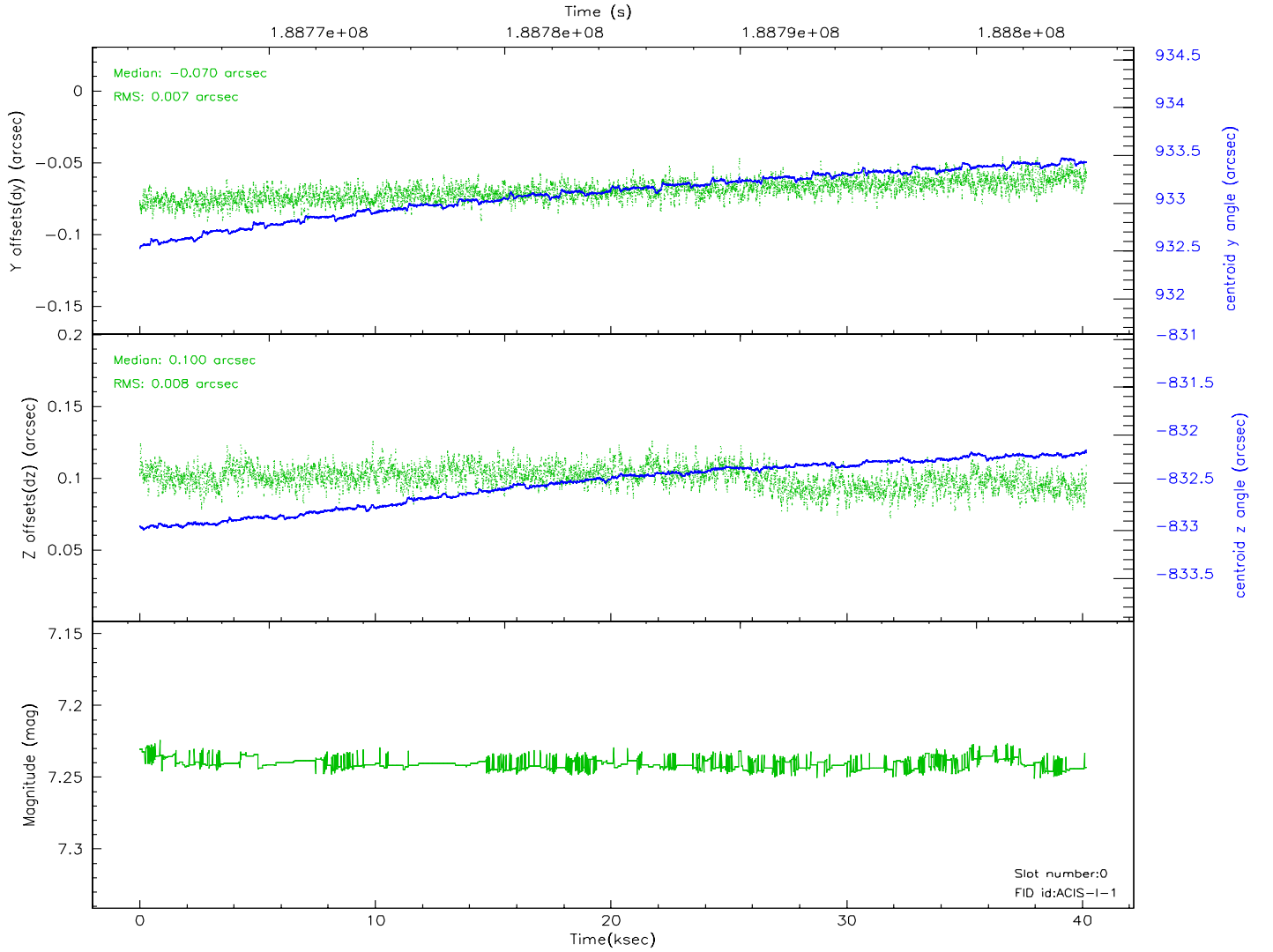
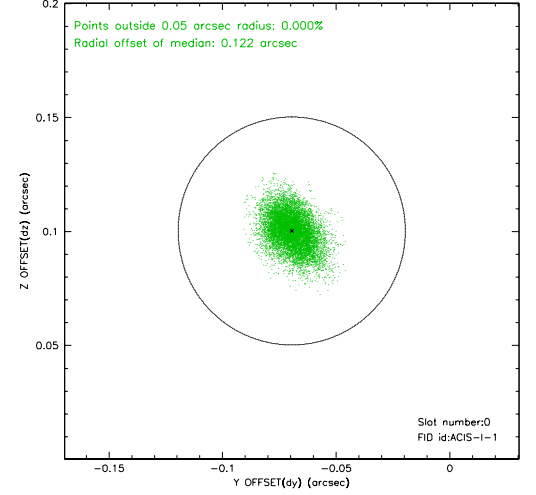
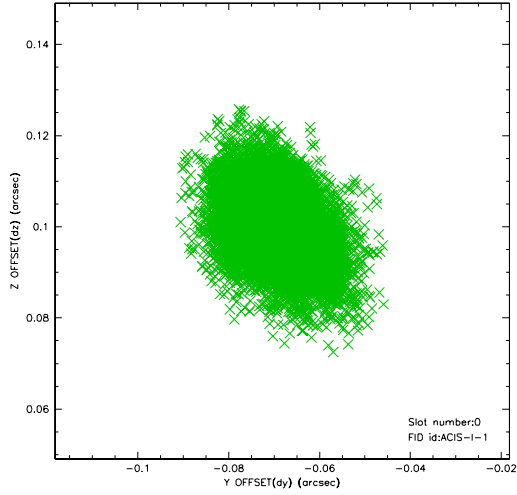


2.4.5 Slot 7

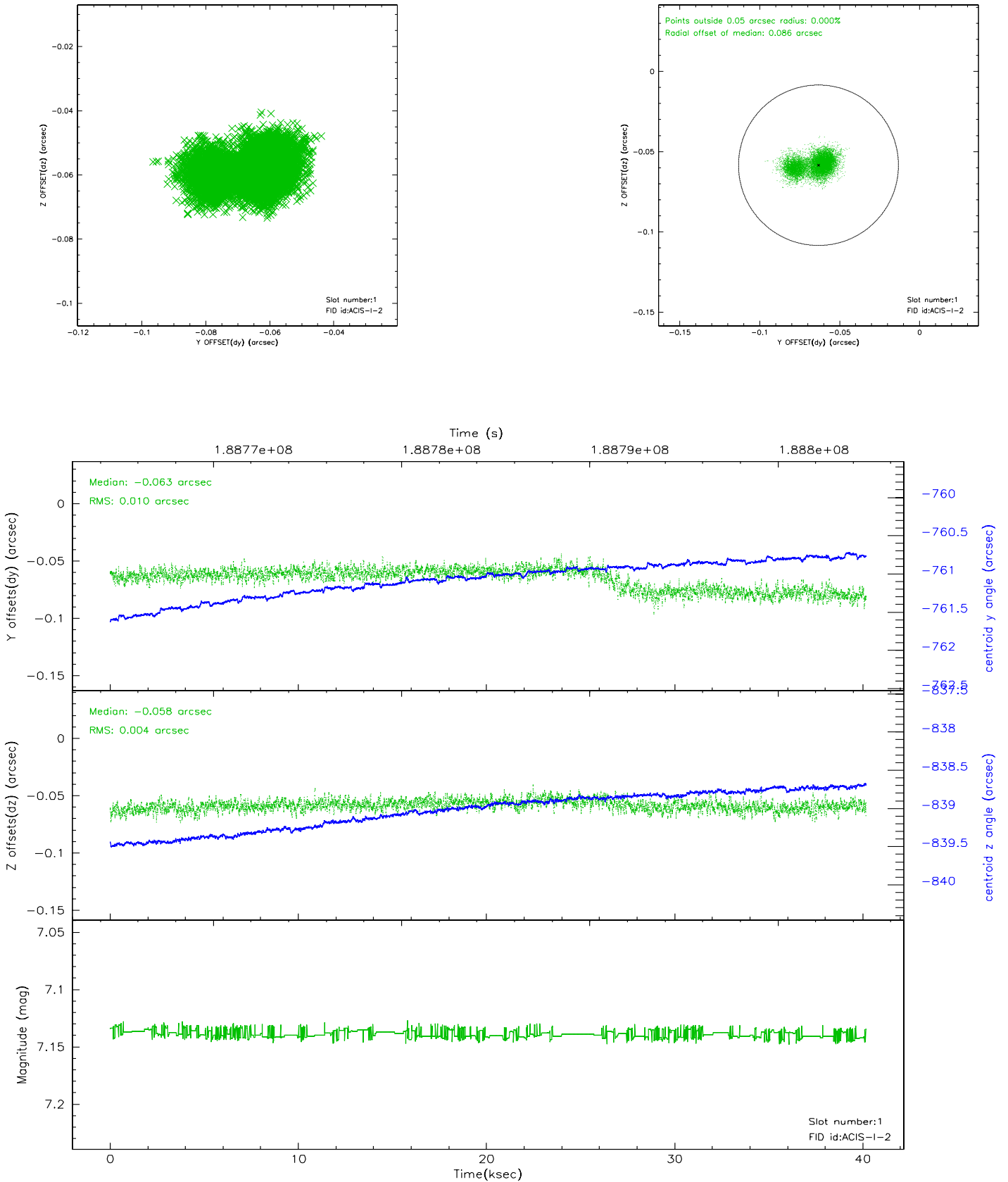


2.5 FID Slots

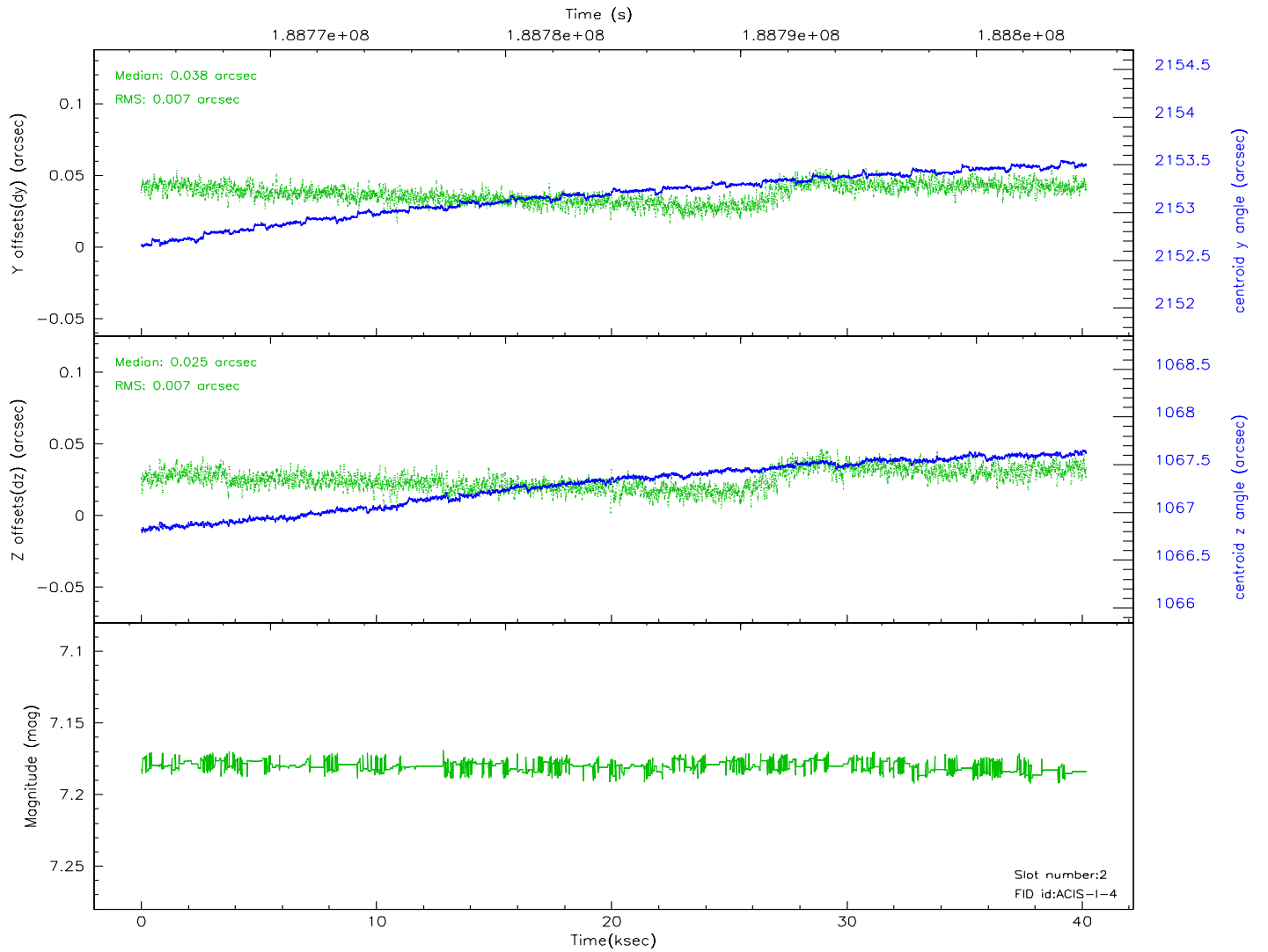
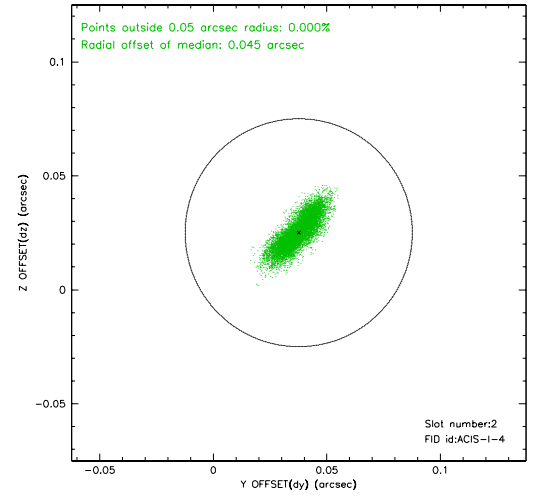
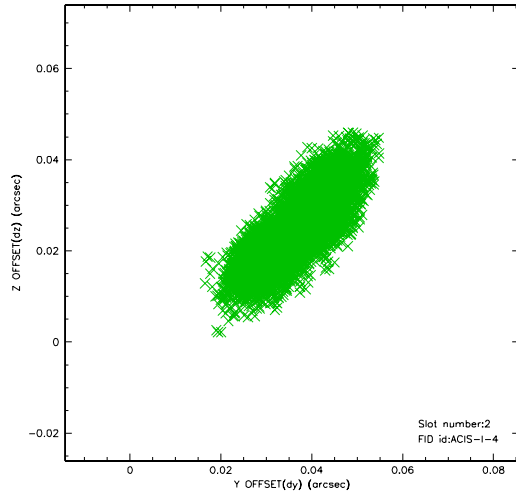
2.5.1 Slot 0



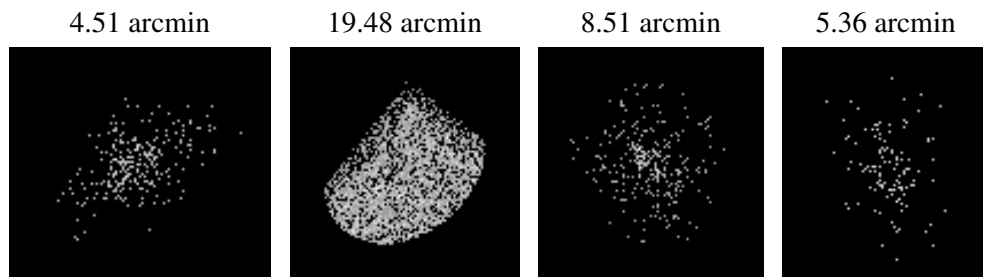
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.175

A.2 Comments

On day 356 at about 00:30, the OBA heater stuck in the 'on' position. This situation affected obsid 4901 and all subsequent observations to this point. The result of this anomaly could be a displacement of the target on the chip in the z direction. The displacement will be small because everything is still within spec, but the target may be spatially displaced, have a different point spread function, or trail across the chip.