

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 6109 - L2 Version 002
Chandra X-Ray Center

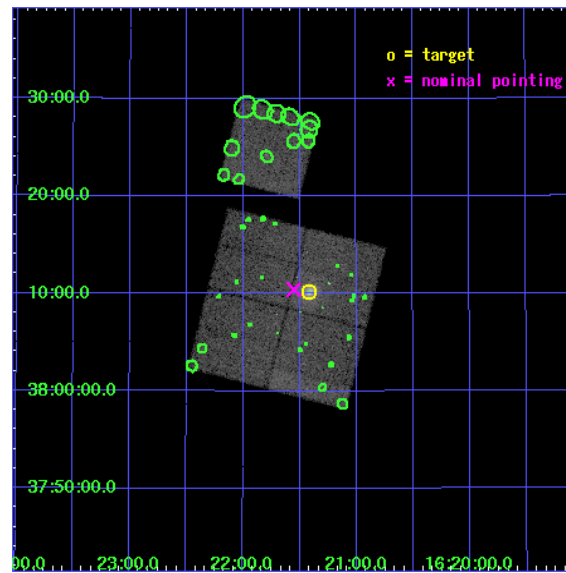
L2 Processing Date : Apr 8 2006

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
3	Point Sources	17
A	Summary	18
A.1	Status	18
A.2	Comments	18

1 Front

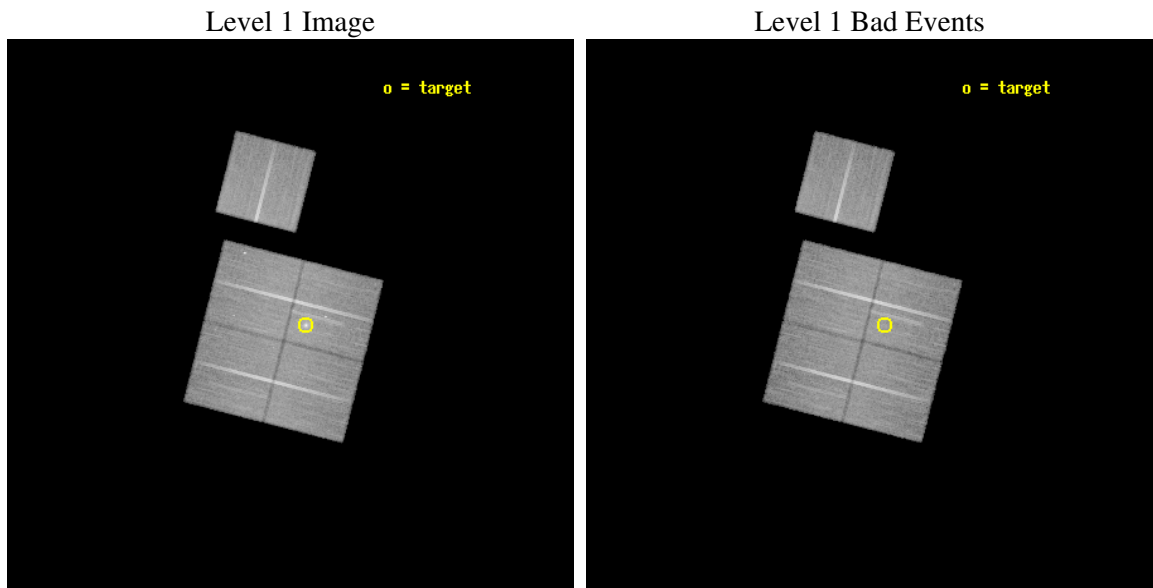
seq_num	800557
obs_id	6109
title	Probing dark energy using the X-ray gas mass fraction in dynamically relaxed galaxy clusters
observer	Dr Steven Allen
object	MACS1621.6+3810
dtcycle	0
cycle	P
ra_targ	245.353333
dec_targ	38.168889
ra_nom	245.38794575845
dec_nom	38.173866459918
roll_nom	14.289256783072
revision	2
ontime	38046.258936703
livetime	37549.156554447
ontime0	38043.117976397
ontime1	38043.117966413
ontime2	38043.117986351
ontime3	38046.258936703
ontime6	38043.117976457
l2events	109413



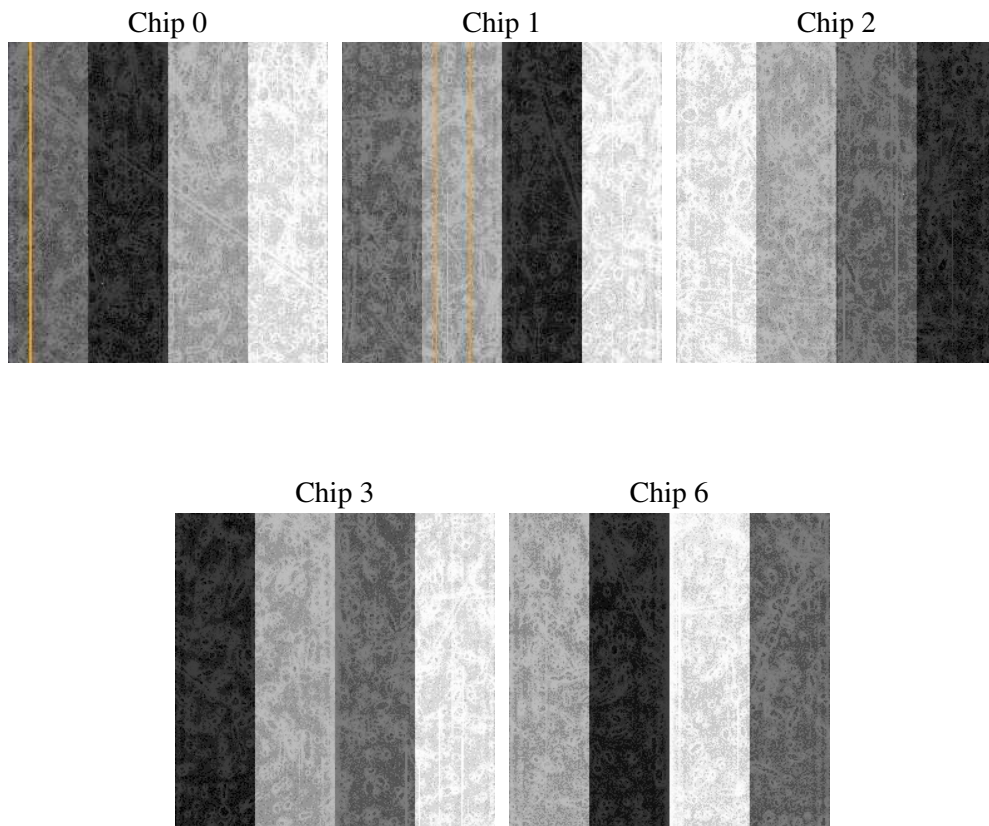
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-04-08T19:48:19
revision	2

sched_exp_time	38000.000000
ontime	38050.099672258
ontime0	38046.958711952
ontime1	38046.958701968
ontime2	38046.958721906
ontime3	38050.099672258
ontime6	38046.958712012
l1events	1196297

2.1.4 Events

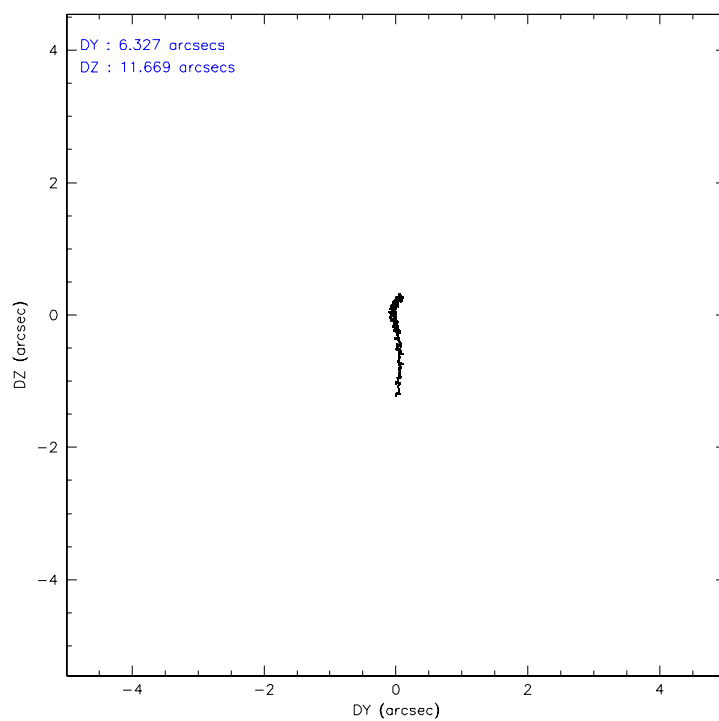
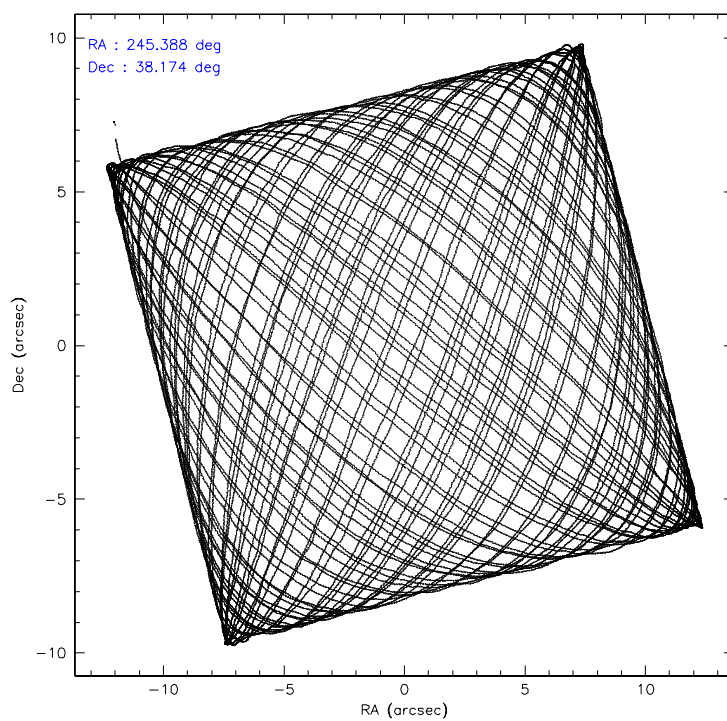
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	226711	228912	250041	247534	243099
rejected events	202252	201993	225440	217628	219089
rejected %	89%	88%	90%	87%	90%

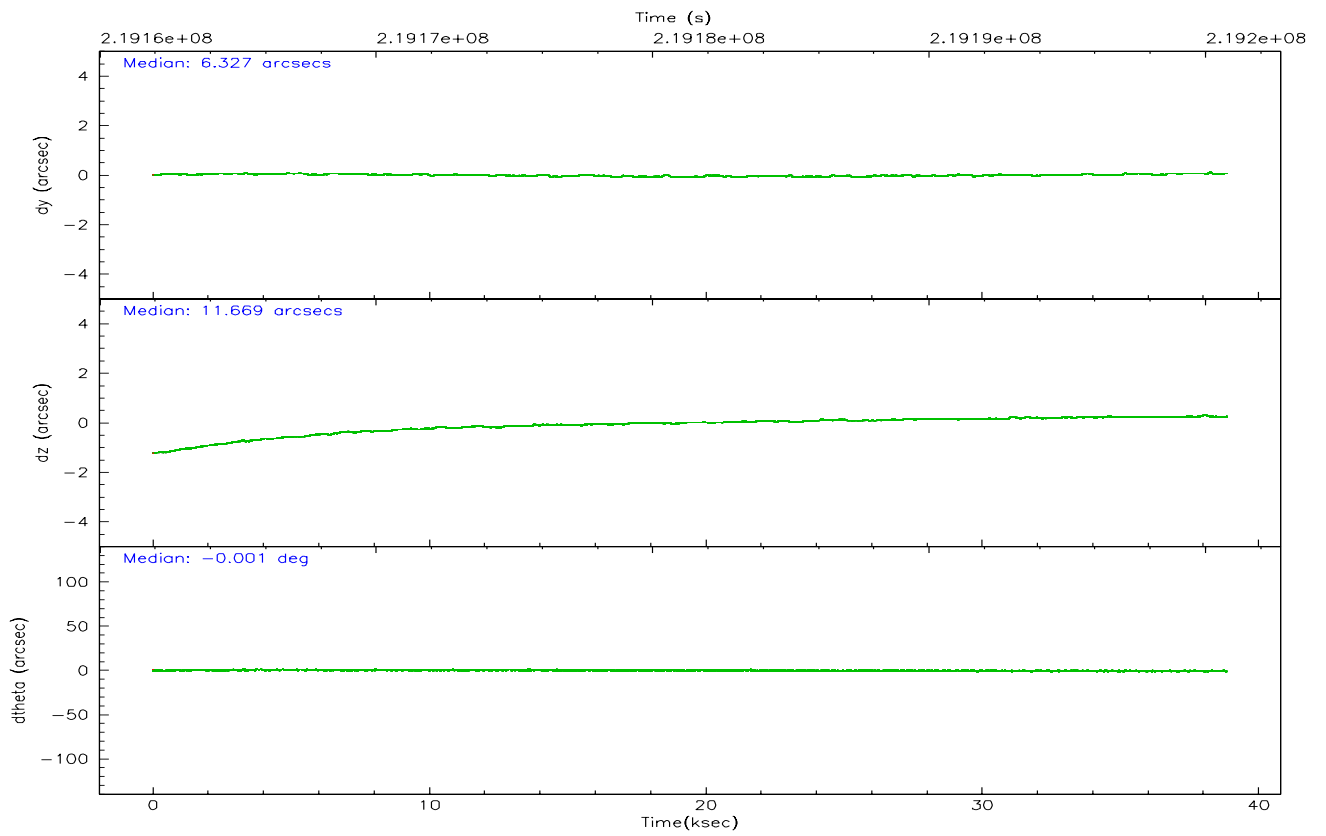
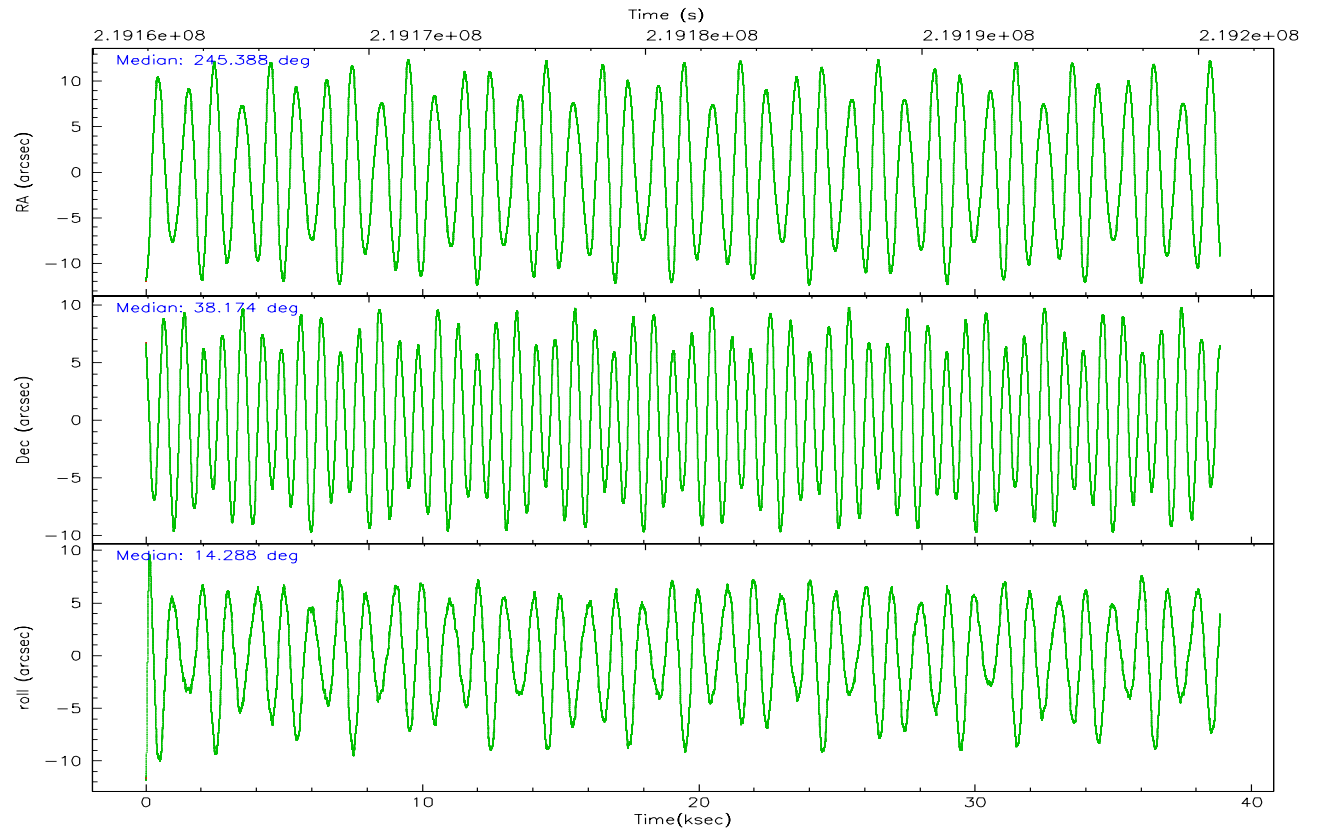
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	8651	10083	9466	14305	8270
	3%	4%	3%	5%	3%
grade 1 events	120	123	134	154	106
	0%	0%	0%	0%	0%
grade 2 events	5753	5591	5542	5492	5237
	2%	2%	2%	2%	2%
grade 3 events	2809	3037	2587	2809	2666
	1%	1%	1%	1%	1%
grade 4 events	2568	2905	2630	2718	2707
	1%	1%	1%	1%	1%
grade 5 events	8376	8910	7690	9430	9452
	3%	3%	3%	3%	3%
grade 6 events	4682	5305	4379	4586	5140
	2%	2%	1%	1%	2%
grade 7 events	193752	192958	217613	208040	209521
	85%	84%	87%	84%	86%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	245.363115	245.3879457584505	Alternating exposures requested	N	N
Pointing Dec	38.154668	38.17386645991843	Primary exposure time	0.000000	3.1
Pointing Roll	14.095919	14.28925678307152			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-229.442463	-229.4438428438578			
SIM translation stage offset (mm)	-4.15	-4.148610159071865			
Observation start time	219162783.184000	219161518.14509			
Observation start date	2004-12-11T14:31:59	2004-12-11T14:11:58			
Observation end time	219200783.184000	219201598.20939			
Observation end date	2004-12-12T01:05:19	2004-12-12T01:19:58			
Read mode	TIMED	TIMED			

2.3 Aspect



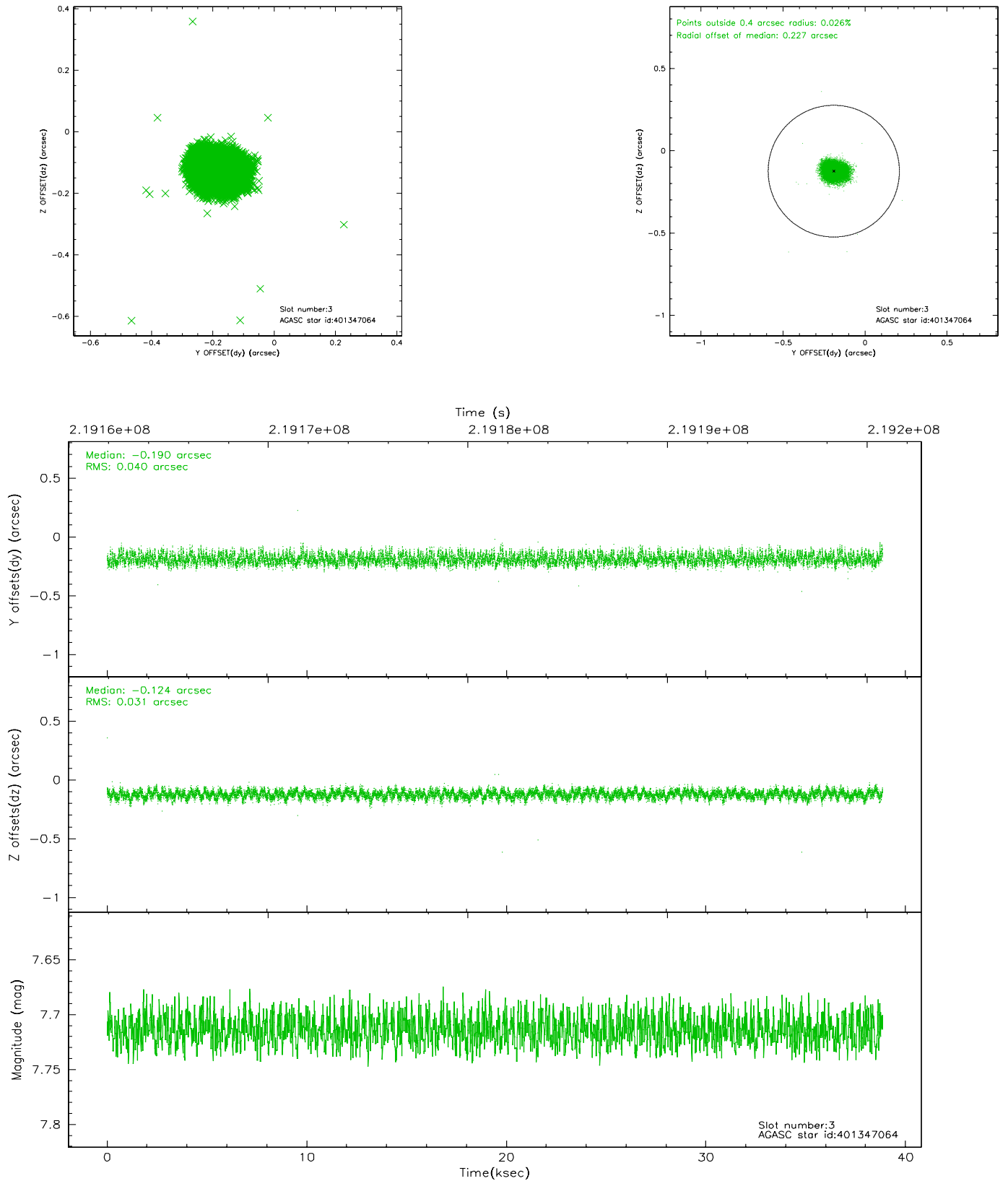


Slot Statistics

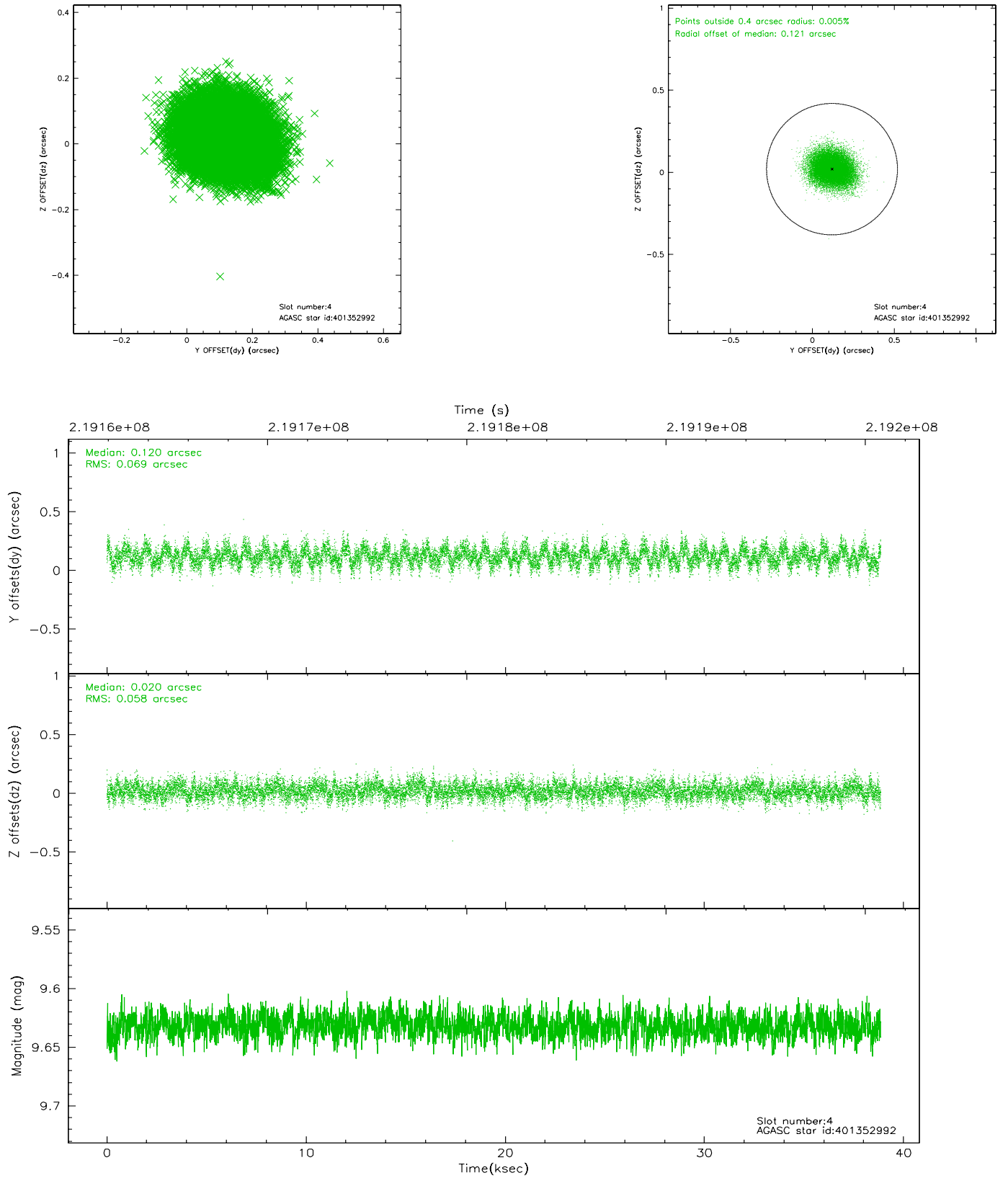
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	9478	0.060	0.014	0.013	0.026	0.000000	0.000000	933.33	-920.20
1	FID	ACIS-I-5	7.22	9479	-0.170	0.085	0.007	0.012	0.000000	0.000000	-1814.95	977.41
2	FID	ACIS-I-6	7.25	9479	0.018	-0.028	0.010	0.029	0.000000	0.000000	398.87	1621.77
3	GUIDE	401347064	7.71	18956	-0.190	-0.124	0.054	0.084	245.989801	38.641750	2137.51	1277.48
4	GUIDE	401352992	9.63	18946	0.120	0.020	0.096	0.156	244.701659	37.819192	-2116.50	-706.62
5	GUIDE	401357120	7.06	18956	-0.022	0.084	0.049	0.078	244.752378	37.765715	-2025.46	-929.35
6	GUIDE	401357328	9.00	18946	-0.012	0.072	0.079	0.130	246.205033	38.152914	2312.78	-575.92
7	GUIDE	401357888	8.51	18953	0.099	-0.052	0.067	0.109	244.567474	38.275306	-2072.39	978.22

2.4 Star Slots

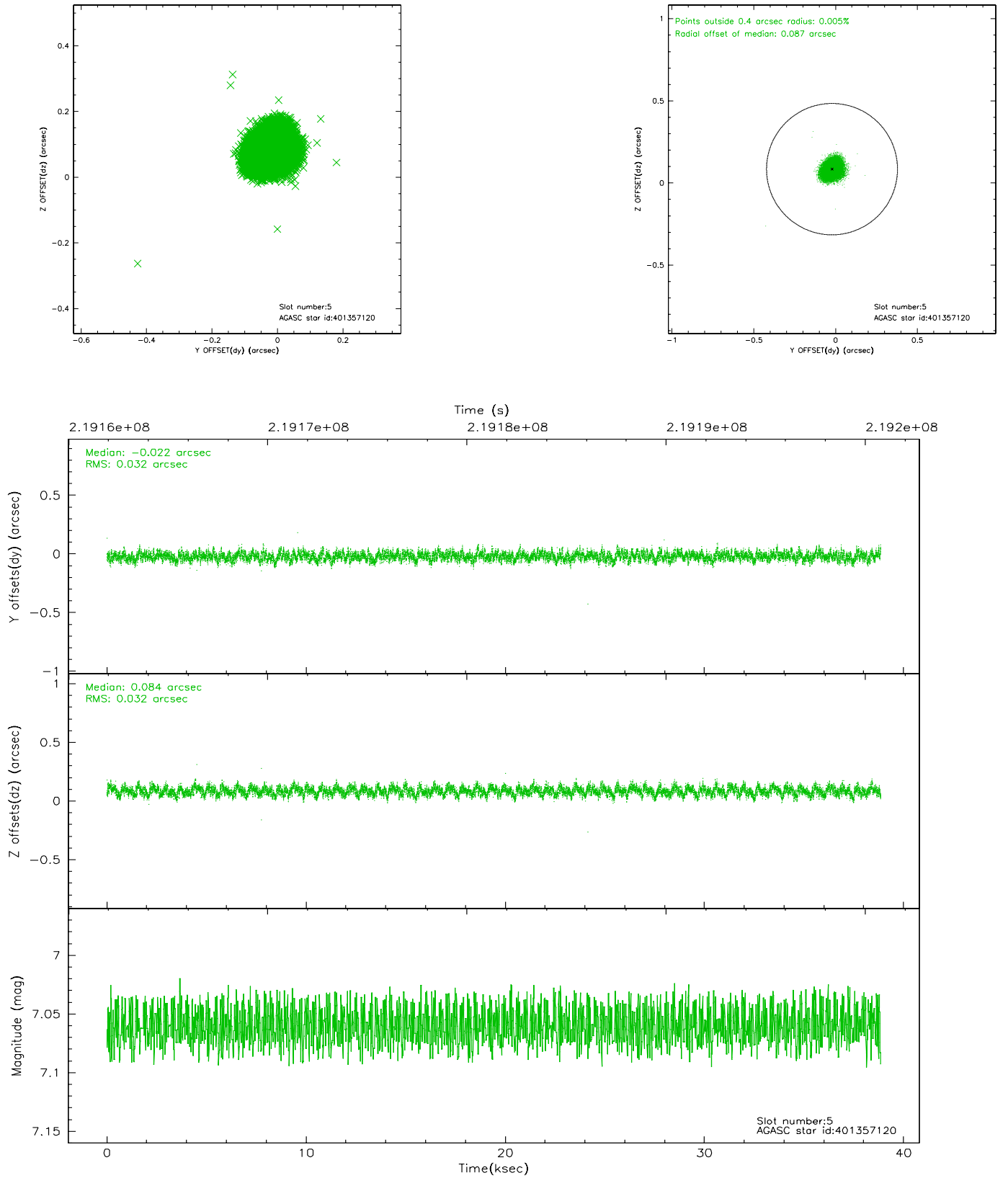
2.4.1 Slot 3



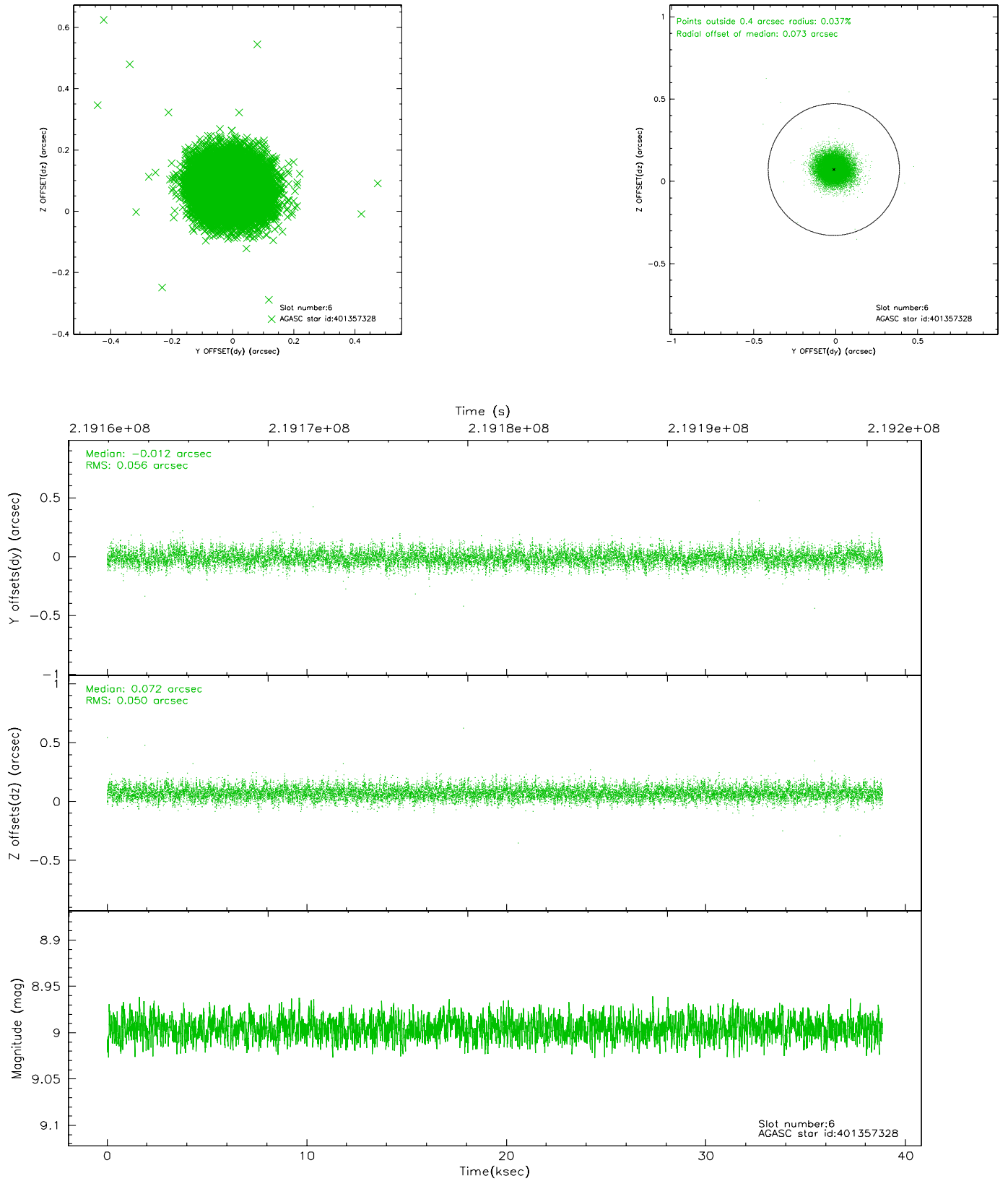
2.4.2 Slot 4



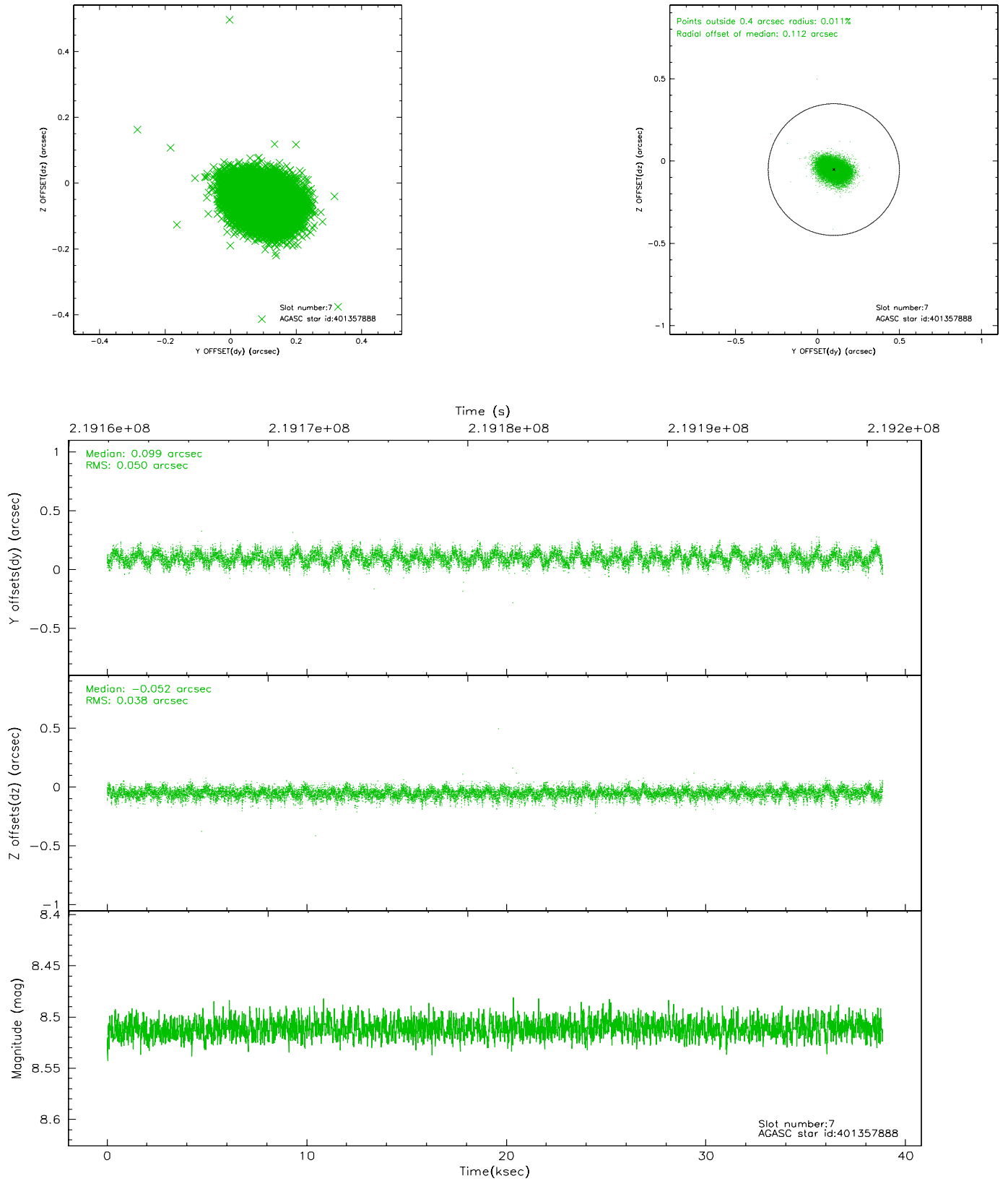
2.4.3 Slot 5



2.4.4 Slot 6

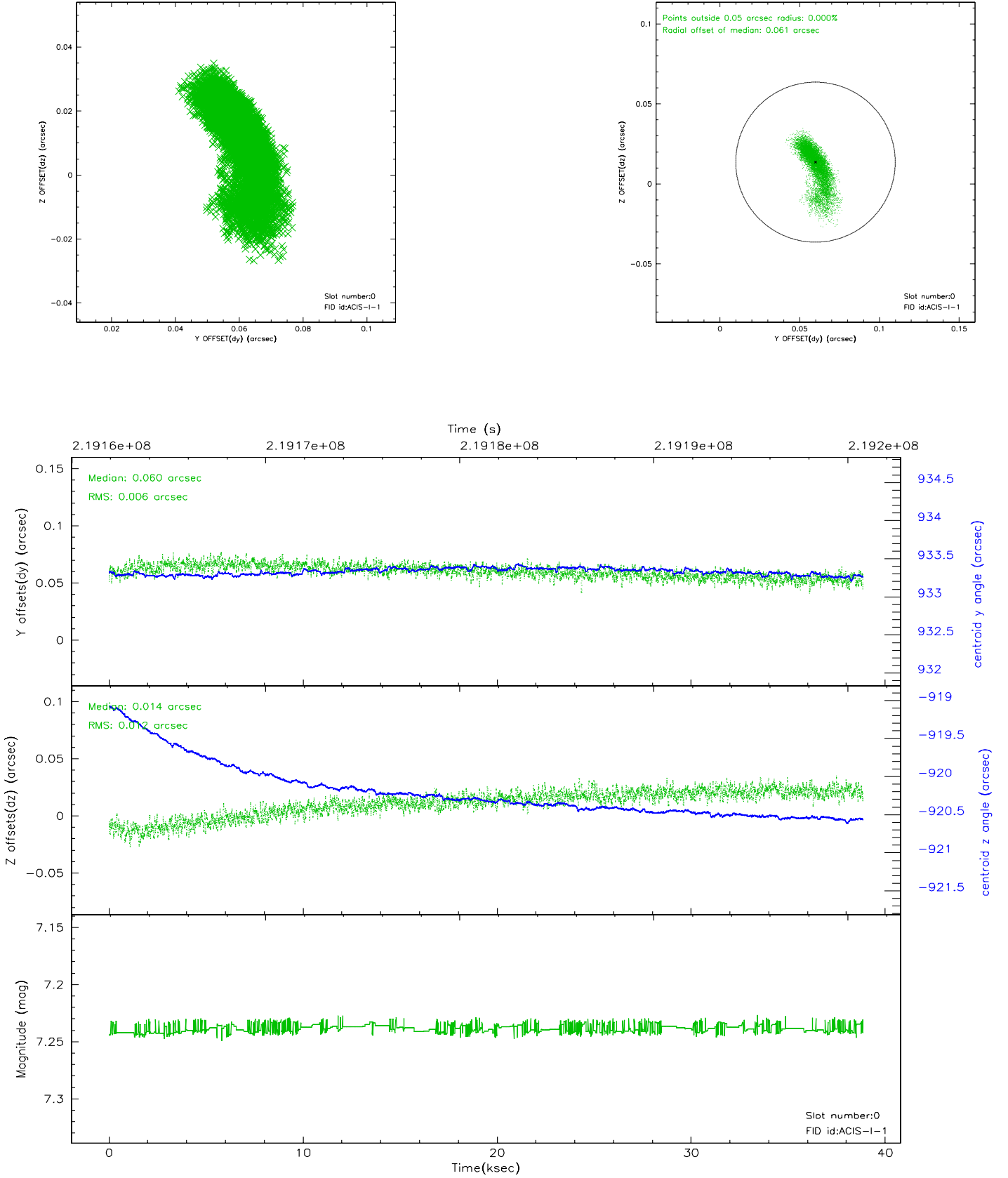


2.4.5 Slot 7

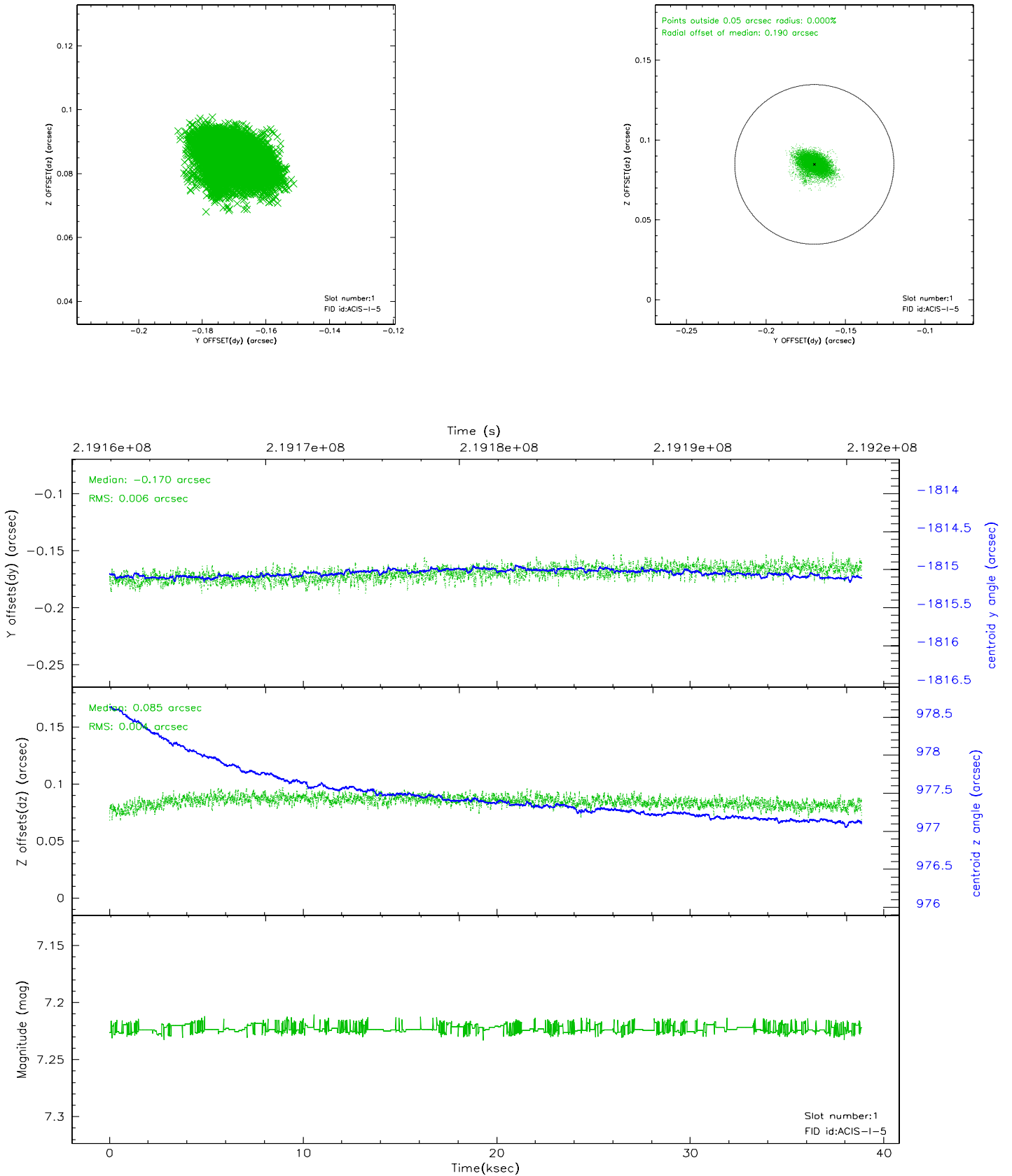


2.5 FID Slots

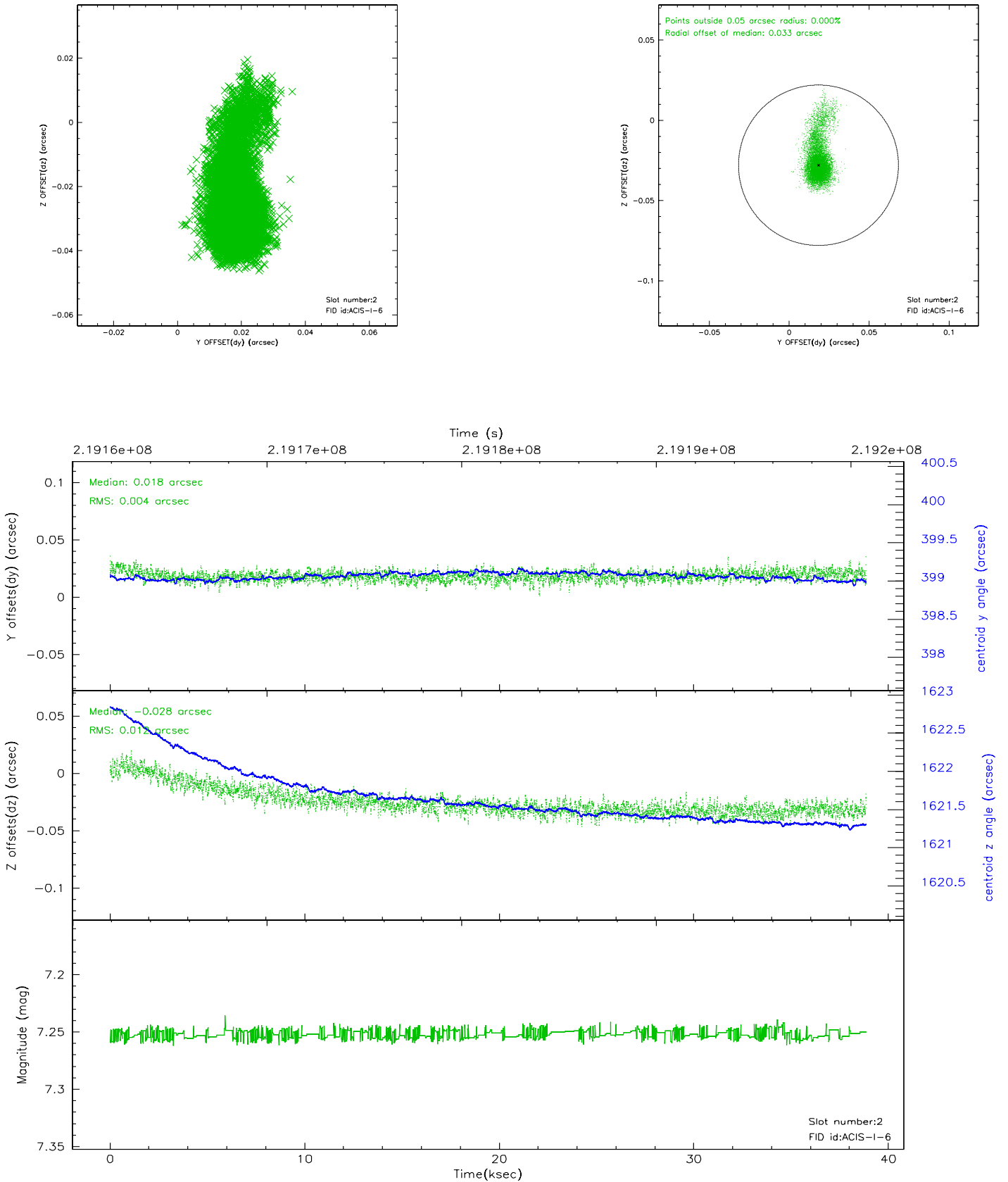
2.5.1 Slot 0



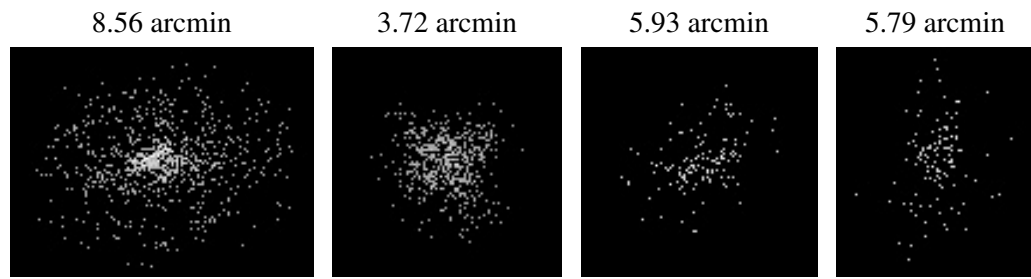
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.04.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.04625

A.2 Comments