

# V&V Reference Report

## L2 ASCDS Version : 7.6.7

Observation 6116 - L2 Version 002  
Chandra X-Ray Center

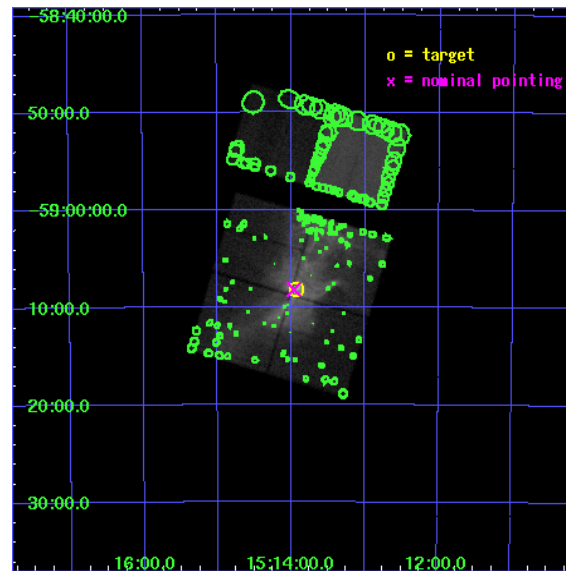
L2 Processing Date: Mar 2 2006

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# 1 Front

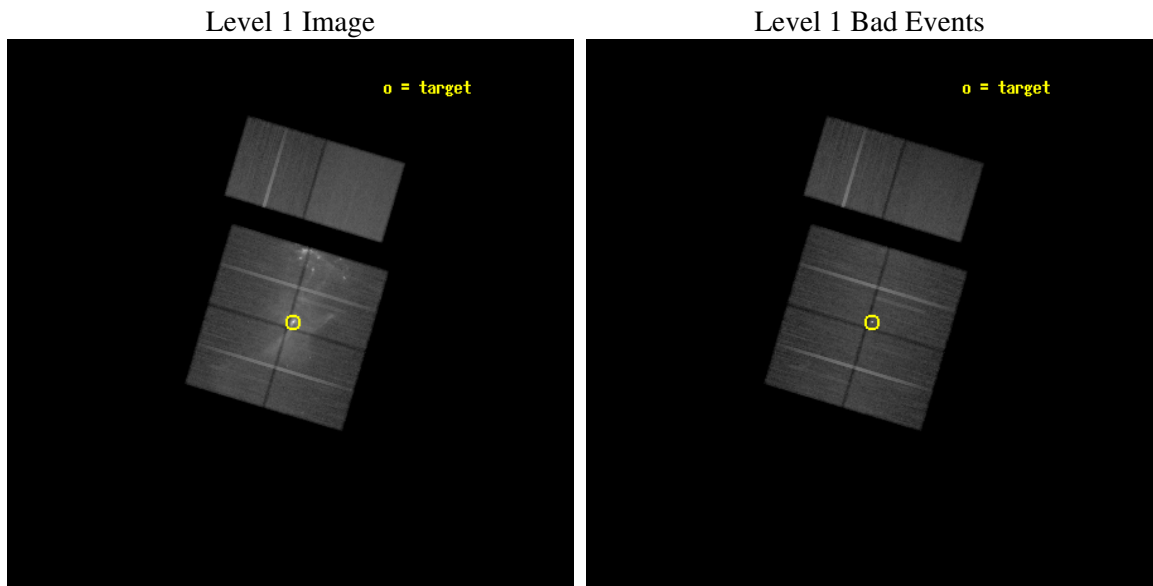
seq_num	500528
obs_id	6116
title	The Structure and Composition of Pulsar Winds and their Nebulae
observer	Dr. Patrick Slane
object	PSR B1509-58
dtcycle	0
cycle	P
ra_targ	228.481667
dec_targ	-59.135806
ra_nom	228.49064610352
dec_nom	-59.13632758036
roll_nom	16.565662104225
revision	2
ontime	47647.917901605
livetime	47044.571275004
ontime0	47651.158832192
ontime1	47654.399822474
ontime2	47647.917841911
ontime3	47647.917901605
ontime6	47647.917831987
ontime7	47654.399822474
l2events	827970



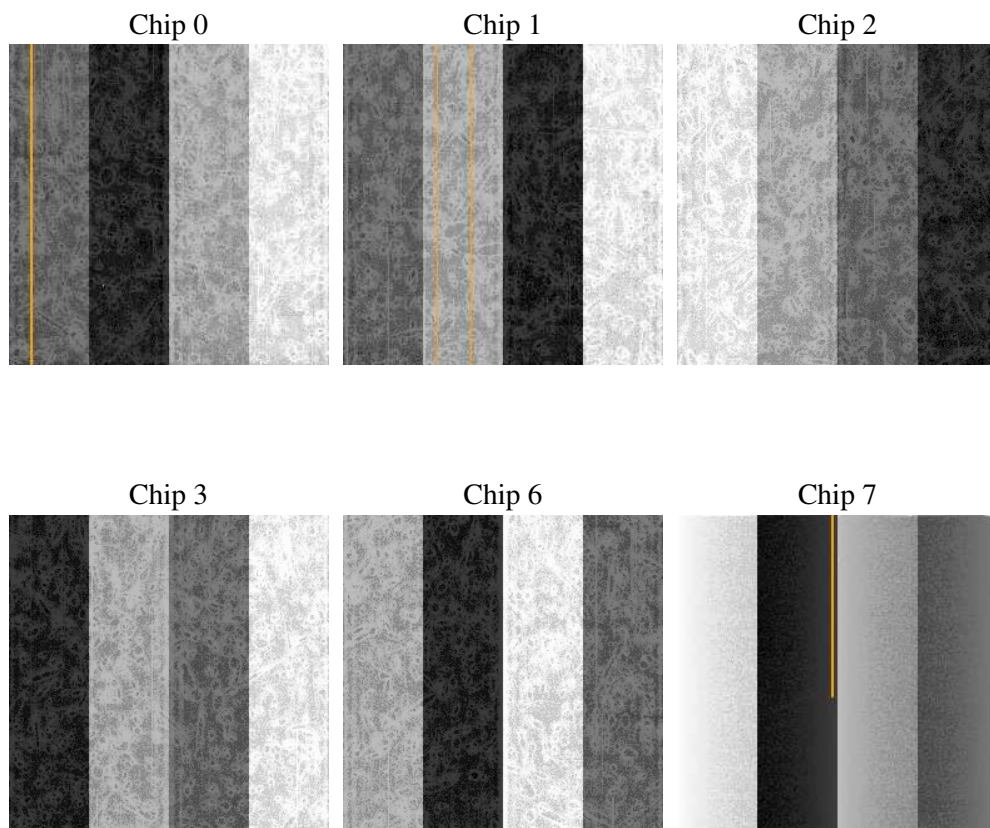
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7
caldsver	3.2.1
date	2006-03-02T11:11:07
revision	2

sched_exp_time	47500.000000
ontime	48475.822556019
ontime0	48479.063506514
ontime1	48482.304476887
ontime2	48475.822496325
ontime3	48475.822556019
ontime6	48475.822486401
ontime7	48482.304496795
l1events	2824553

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	421509	415405	470863	603750	399089	513937
rejected events	297550	304671	327849	341536	349898	319618
rejected %	70%	73%	69%	56%	87%	62%

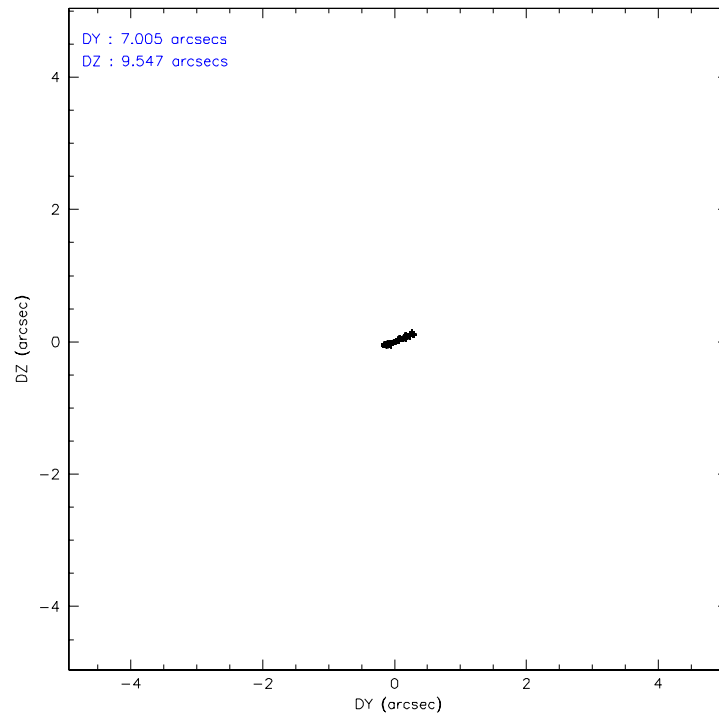
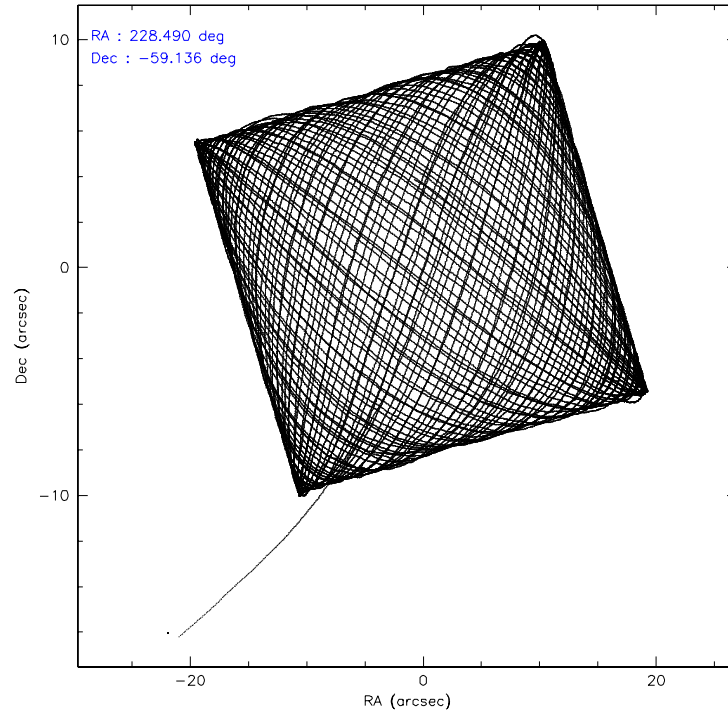
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	81438	68085	101552	189674	21598	11299
	19%	16%	21%	31%	5%	2%
grade 1 events	554	452	832	2817	230	318
	0%	0%	0%	0%	0%	0%
grade 2 events	18732	18150	18810	32769	10231	49978
	4%	4%	3%	5%	2%	9%
grade 3 events	7220	6986	7152	12254	4494	9828
	1%	1%	1%	2%	1%	1%
grade 4 events	7033	6874	7200	12251	4297	9441
	1%	1%	1%	2%	1%	1%
grade 5 events	15270	16177	15136	20101	17870	32932
	3%	3%	3%	3%	4%	6%
grade 6 events	10698	11565	9760	16563	9375	117105
	2%	2%	2%	2%	2%	22%
grade 7 events	280564	287116	310421	317321	330994	283036
	66%	69%	65%	52%	82%	55%

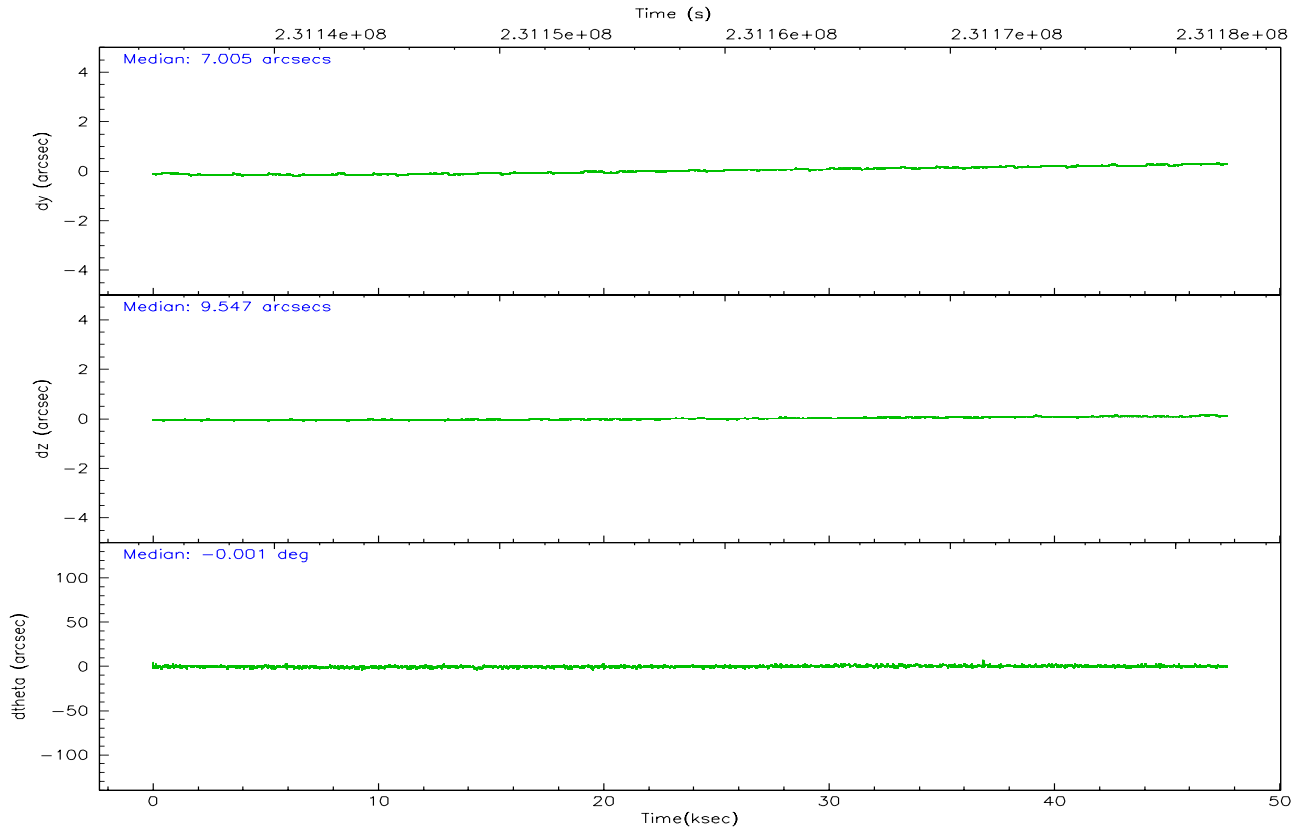
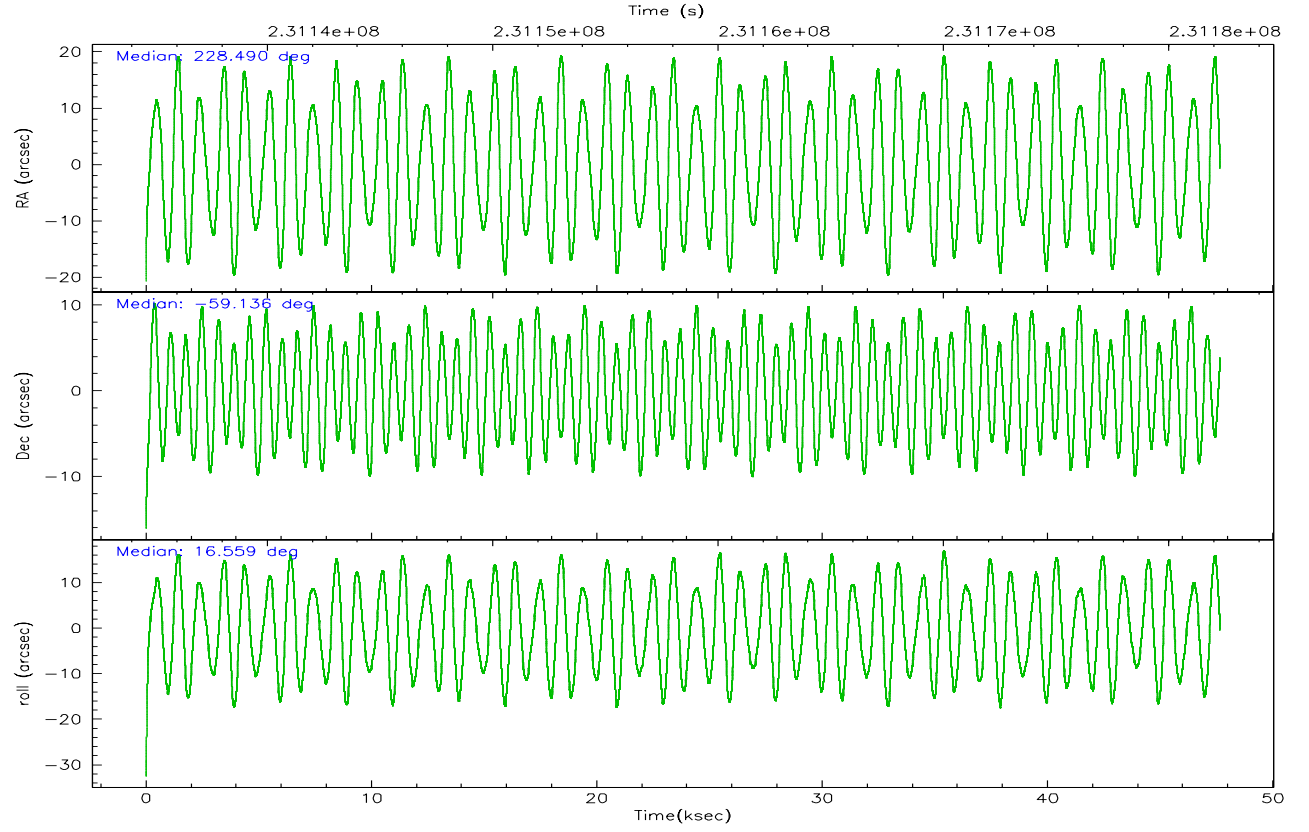


## 2.2 Compared Parameters

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	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	228.454083	228.4906461035172	Alternating exposures requested	N	N
Pointing Dec	-59.156270	-59.13632758035985	Primary exposure time	0.000000	3.2
Pointing Roll	16.325590	16.56566210422482			
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	231134789.184000	231133318.29935			
Observation start date	2005-04-29T04:05:25	2005-04-29T03:41:58			
Observation end time	231182289.184000	231182719.2016			
Observation end date	2005-04-29T17:17:05	2005-04-29T17:25:19			
Read mode	TIMED	TIMED			

## 2.3 Aspect



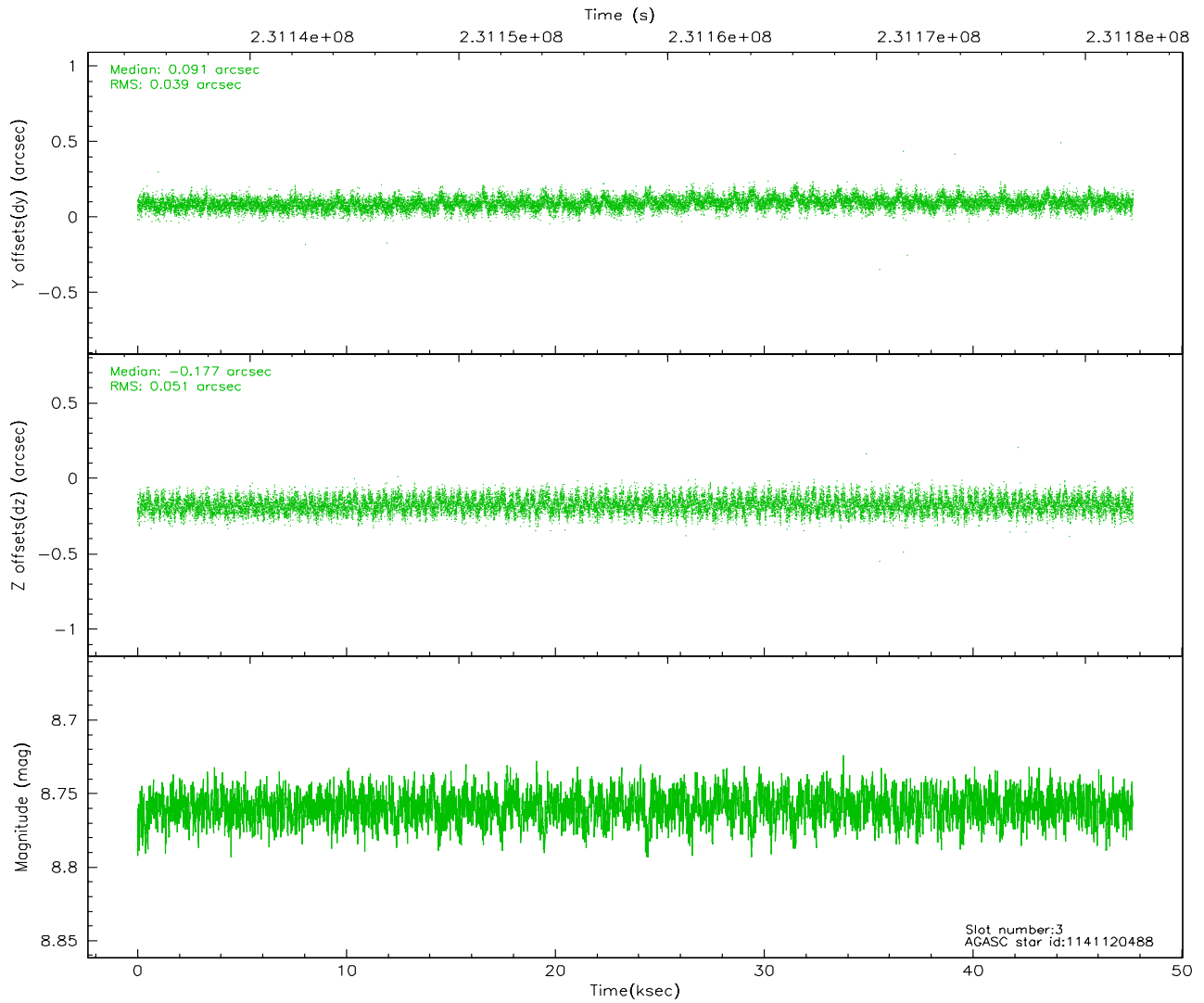
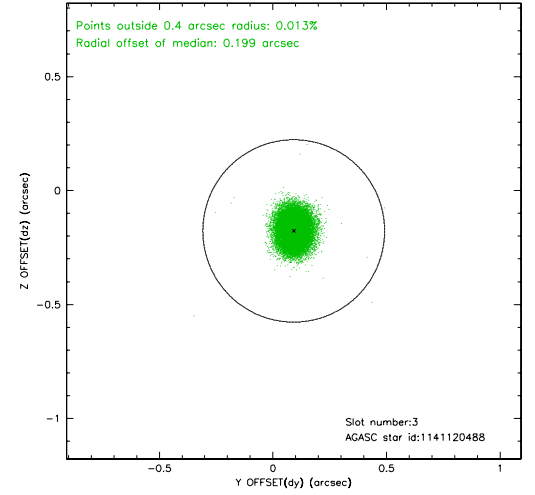
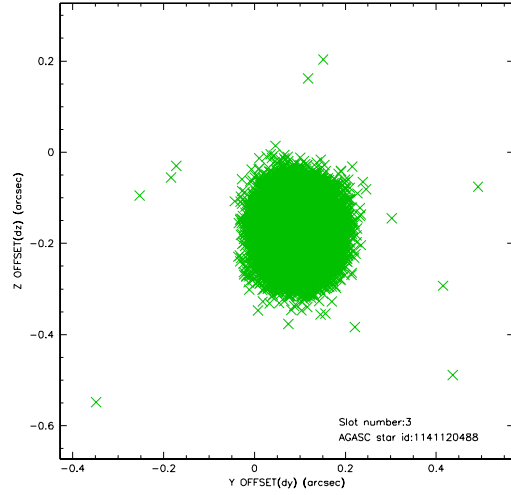


### Slot Statistics

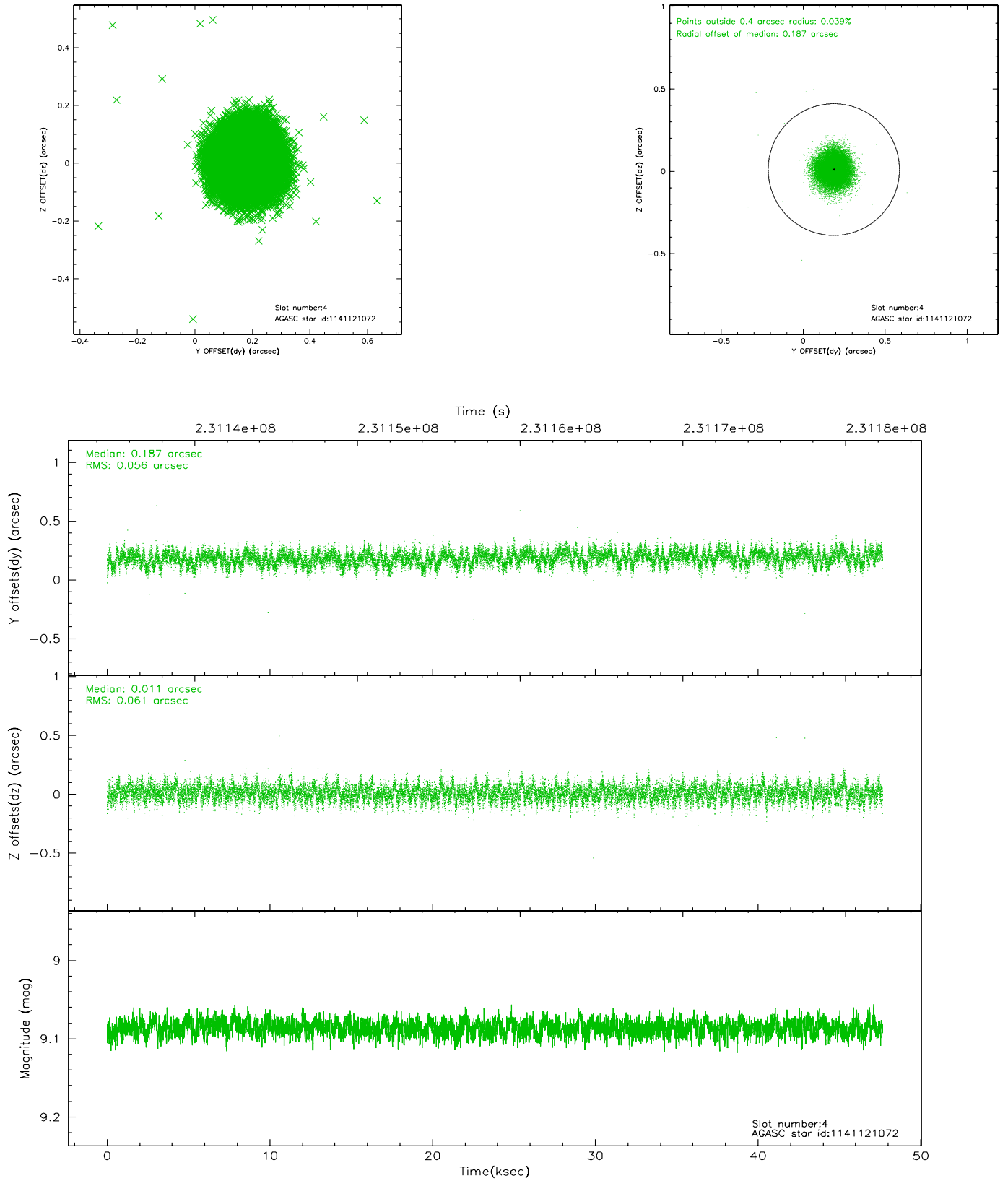
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	11625	-0.076	0.101	0.010	0.017	0.000000	0.000000	932.56	-832.93
1	FID	ACIS-I-2	7.14	11624	-0.078	-0.070	0.010	0.016	0.000000	0.000000	-761.54	-839.51
2	FID	ACIS-I-4	7.18	11624	0.055	0.036	0.010	0.017	0.000000	0.000000	2152.61	1066.79
3	GUIDE	1141120488	8.76	23235	0.091	-0.177	0.069	0.111	228.236450	-59.504731	-733.78	-1092.82
4	GUIDE	1141121072	9.09	23232	0.187	0.011	0.088	0.139	227.898628	-59.420815	-1244.86	-632.18
5	GUIDE	1141116216	8.61	23241	-0.086	0.218	0.061	0.099	229.040455	-59.767767	400.31	-2415.52
6	GUIDE	1141114888	6.99	23250	-0.102	-0.161	0.068	0.104	229.339260	-58.368001	2398.45	2243.20
7	GUIDE	1141119088	8.15	23248	-0.087	0.108	0.063	0.101	229.638476	-59.667928	1543.96	-2390.78

## 2.4 Star Slots

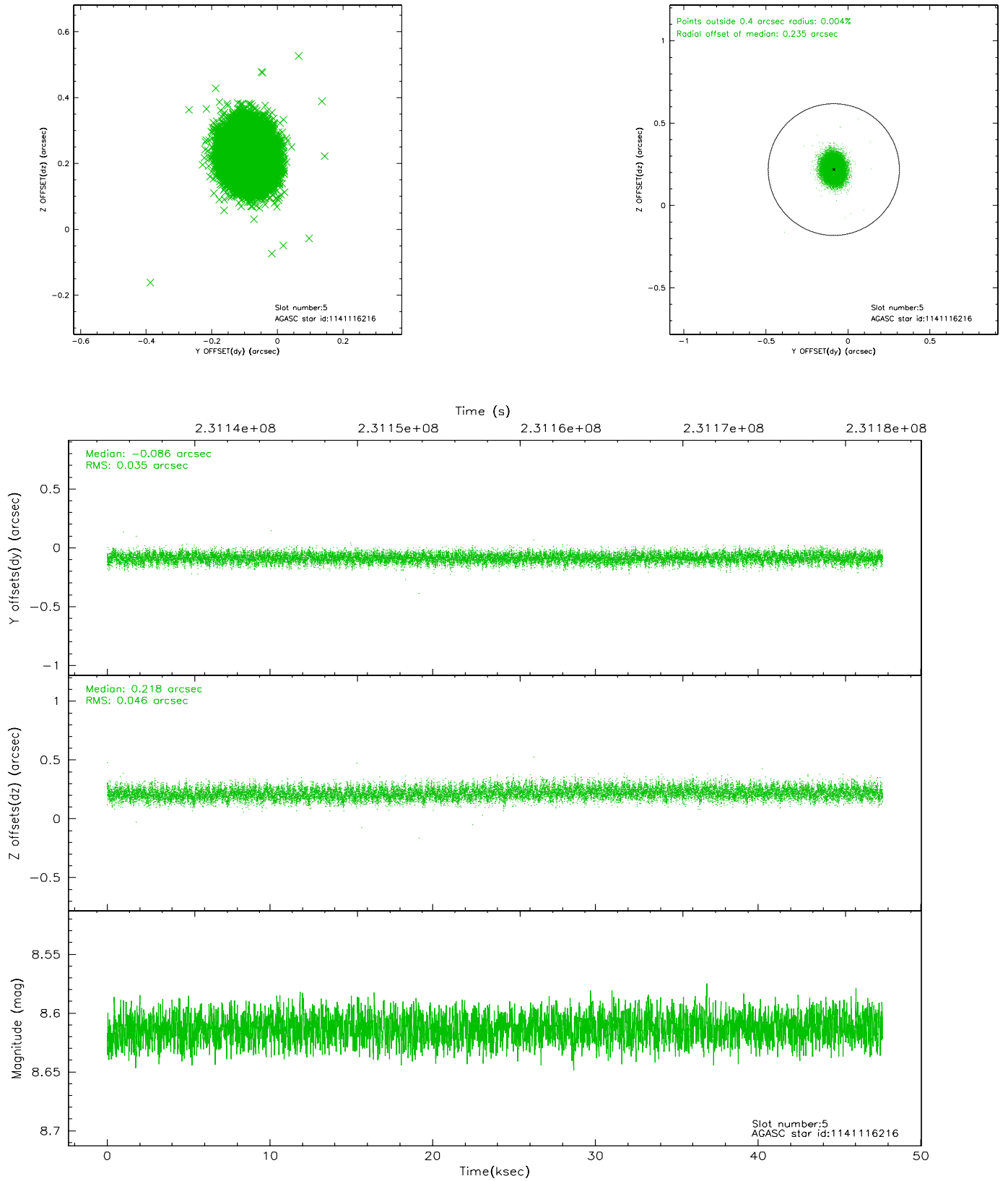
### 2.4.1 Slot 3



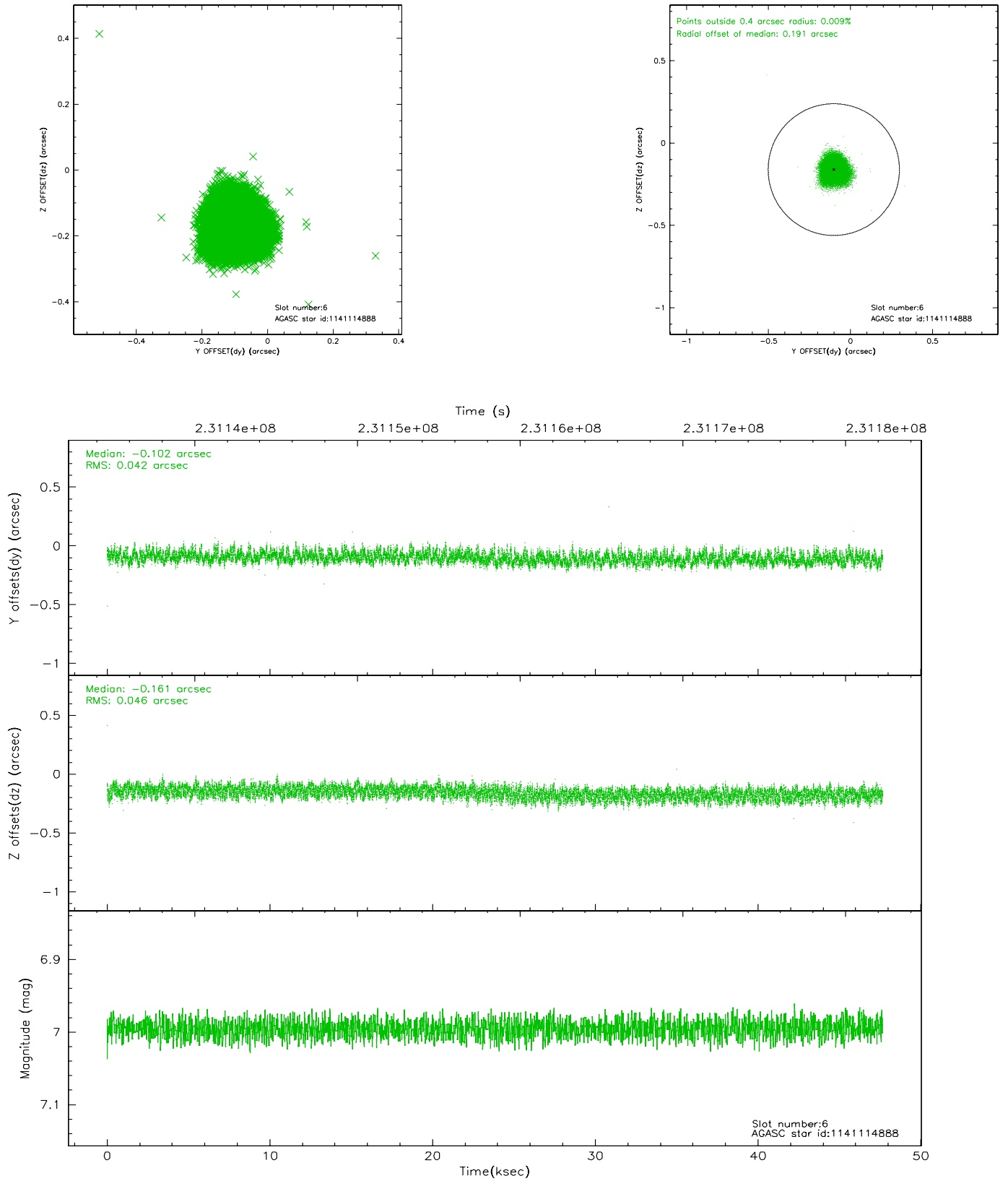
## 2.4.2 Slot 4



### 2.4.3 Slot 5

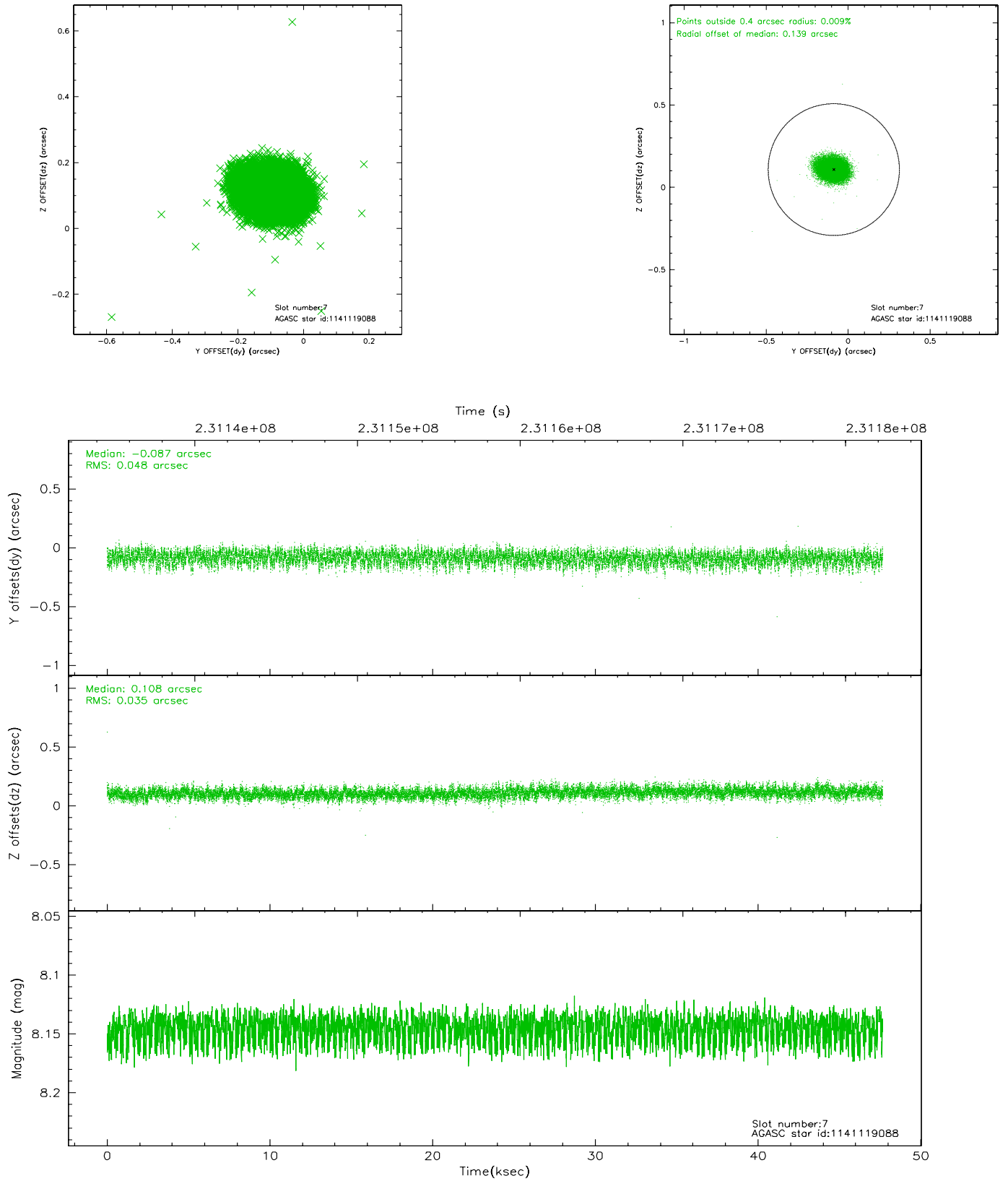


## 2.4.4 Slot 6



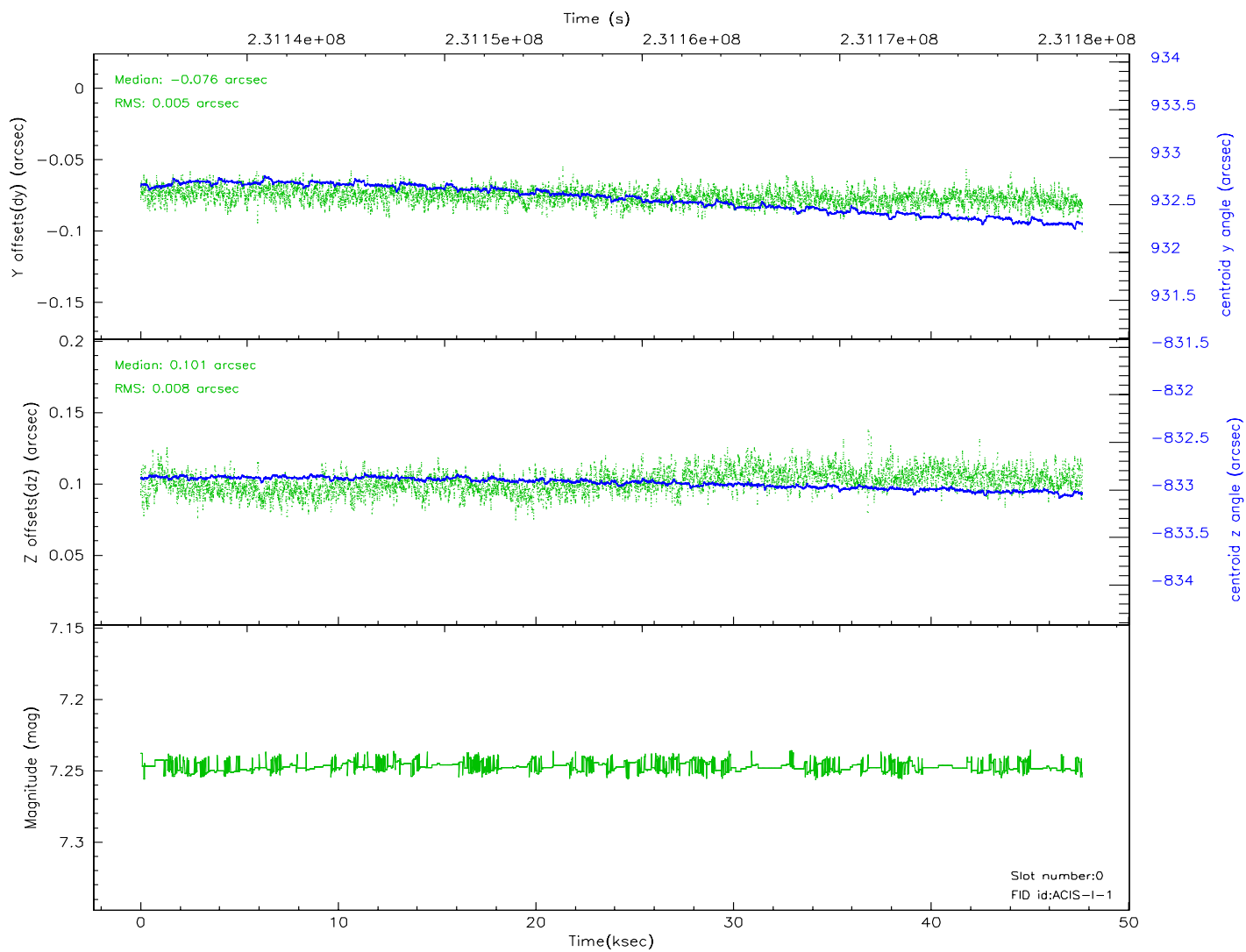
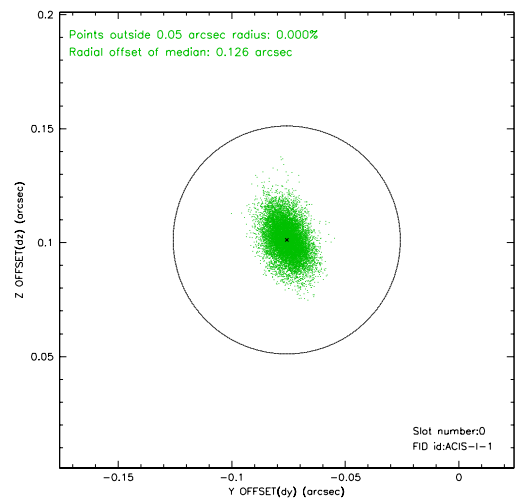
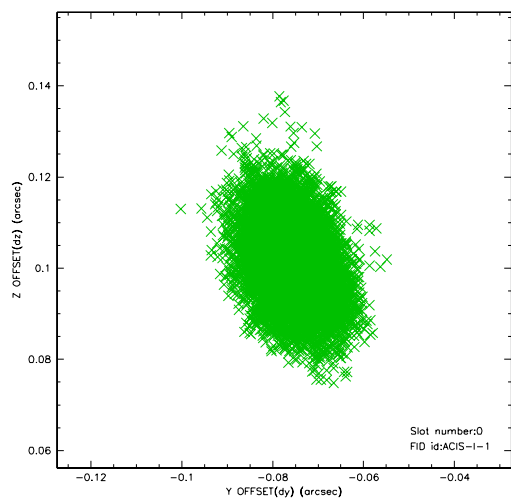


## 2.4.5 Slot 7

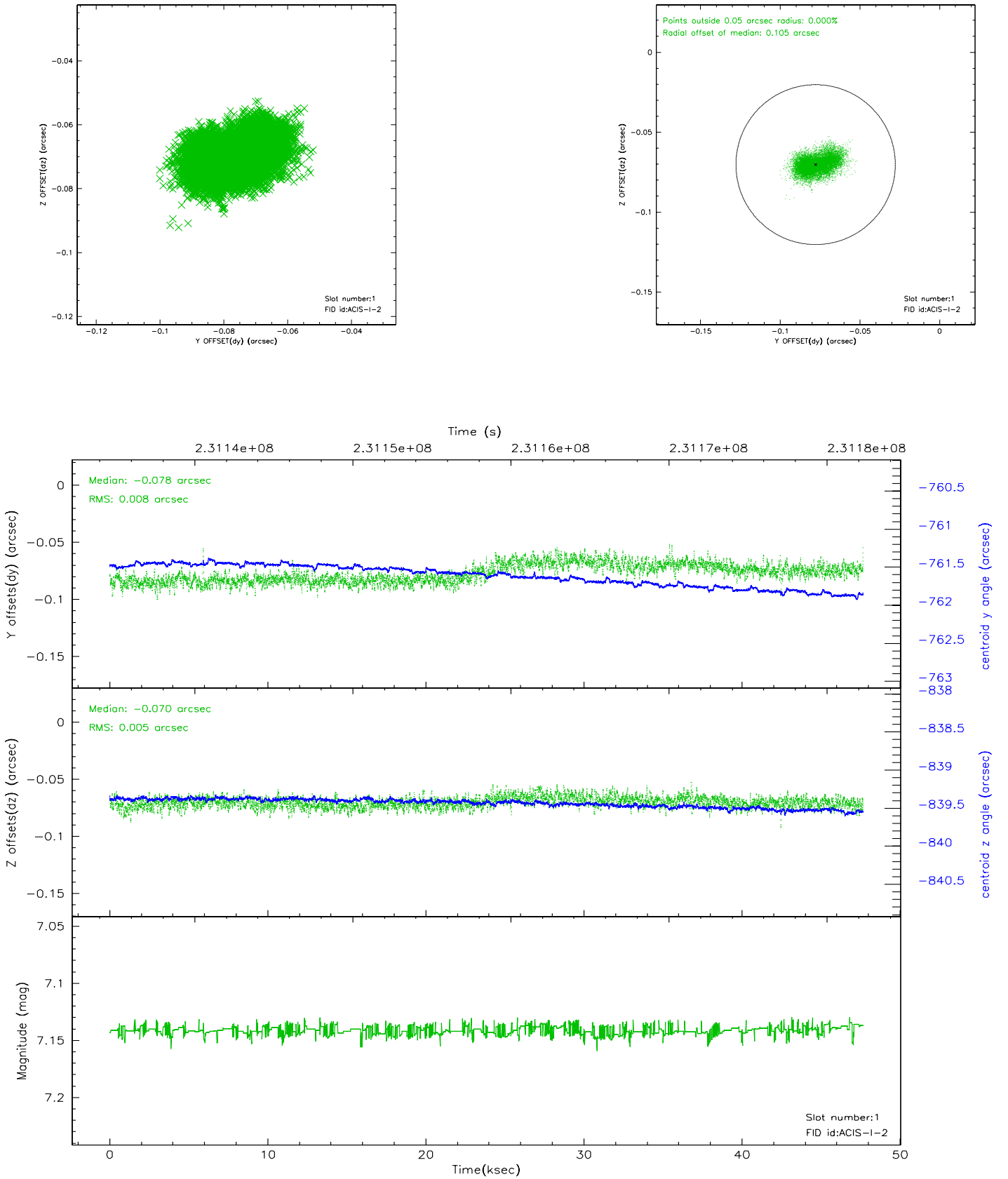


## 2.5 FID Slots

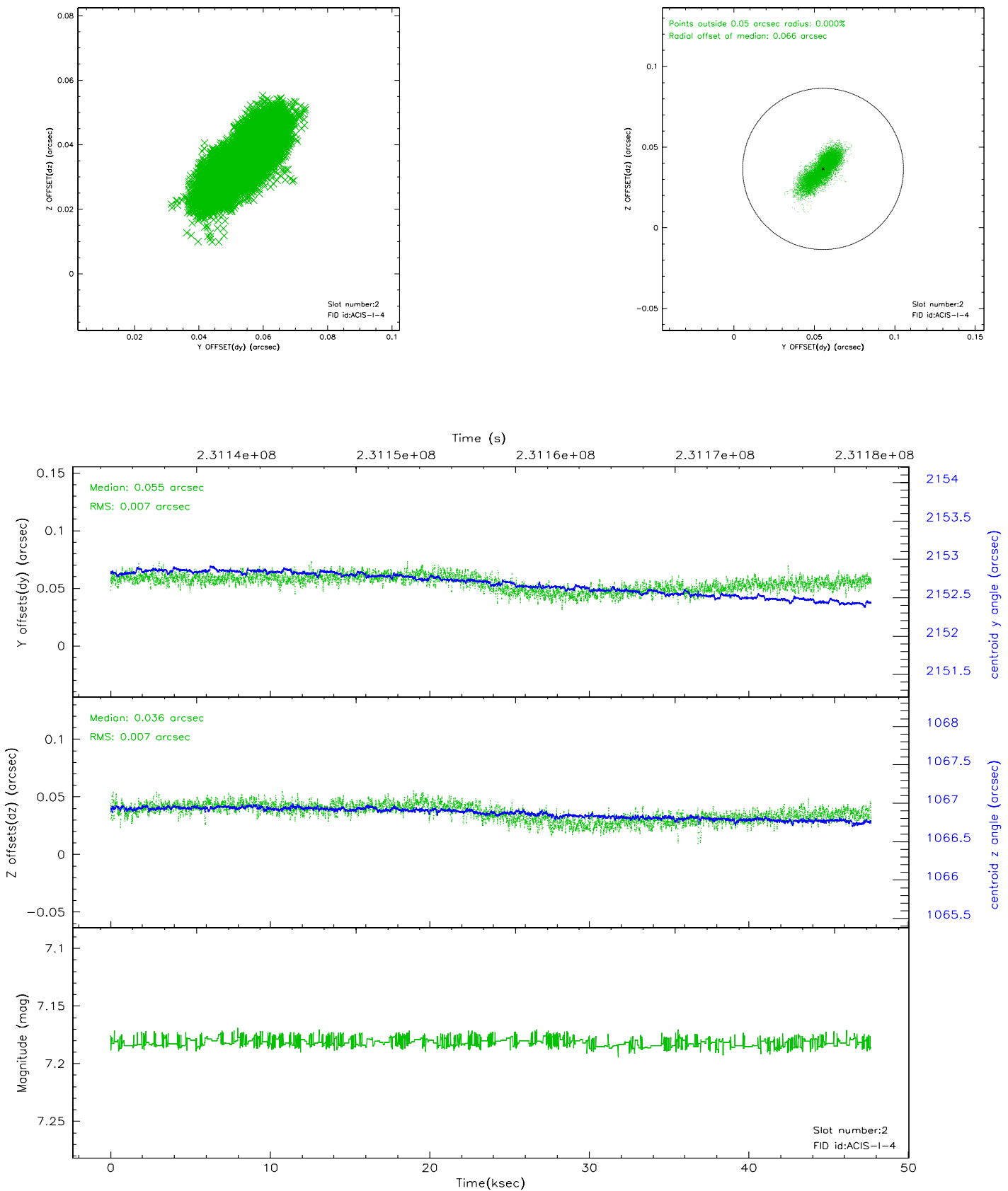
### 2.5.1 Slot 0



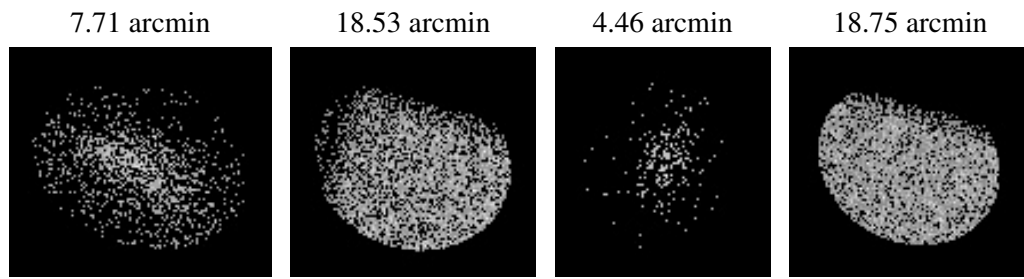
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.64791

### A.2 Comments