

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 1730 - L2 Version 001  
Chandra X-Ray Center

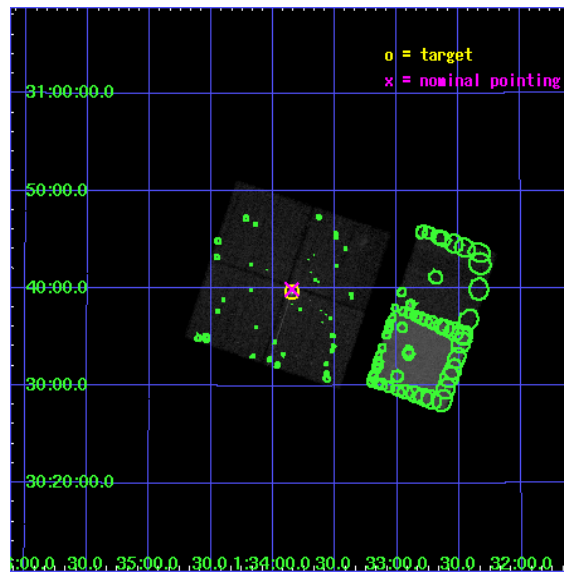
L2 Processing Date : May 30 2007

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# 1 Front

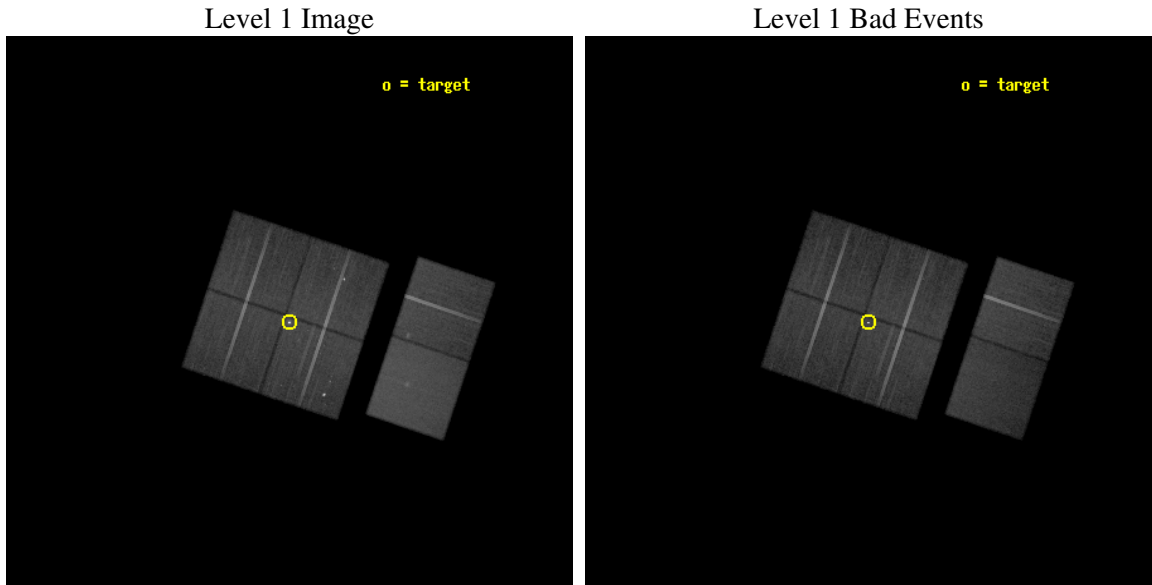
seq_num	600145
obs_id	1730
title	THE X-RAY SOURCE POPULATION OF M33
observer	Dr. Jonathan McDowell
object	M33
dtcycle	0
cycle	P
ra_targ	23.461667
dec_targ	30.660167
ra_nom	23.462117807672
dec_nom	30.665080760862
roll_nom	108.57868324372
revision	3
ontime	50064.333234787
livetime	49430.388502246
ontime0	50079.672394797
ontime1	50083.697085619
ontime2	50064.292194843
ontime3	50064.333234787
ontime6	50067.656384721
ontime7	50102.359116361
l2events	383876



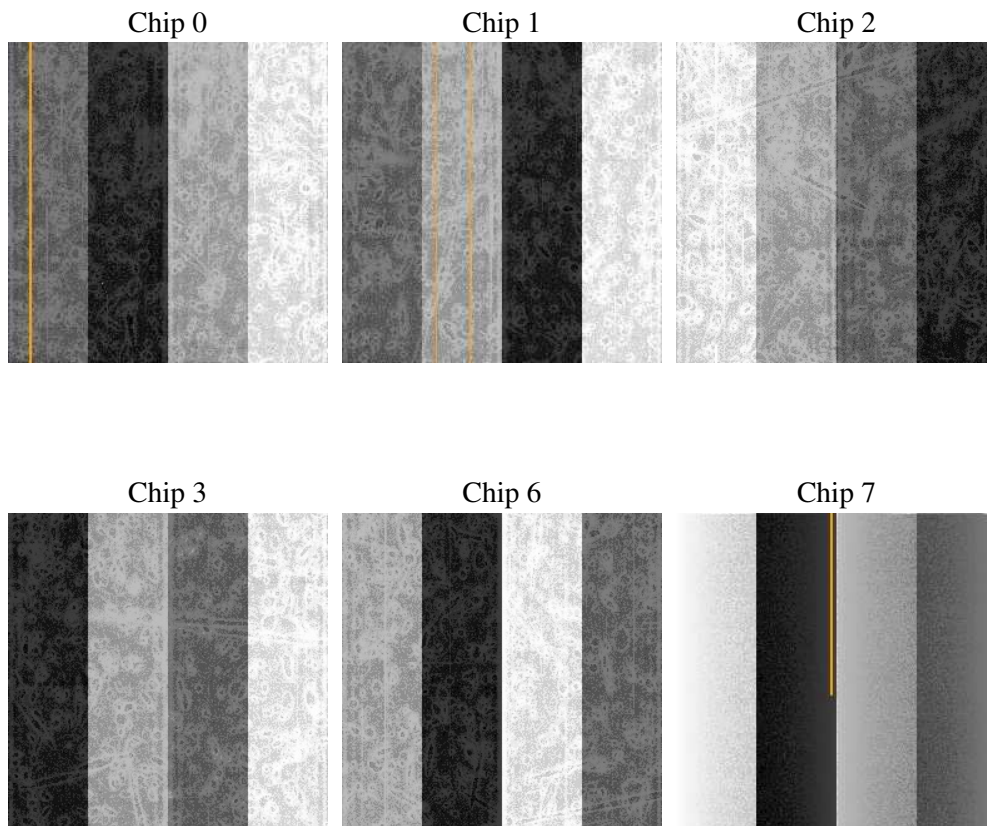
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldbver	3.4.0
date	2007-05-30T20:24:59
revision	3

sched_exp_time	50000.000000
ontime	50064.333234787
ontime0	50079.672394797
ontime1	50083.697085619
ontime2	50064.292194843
ontime3	50064.333234787
ontime6	50067.656384721
ontime7	50102.359116361
l1events	2072842

### 2.1.4 Events

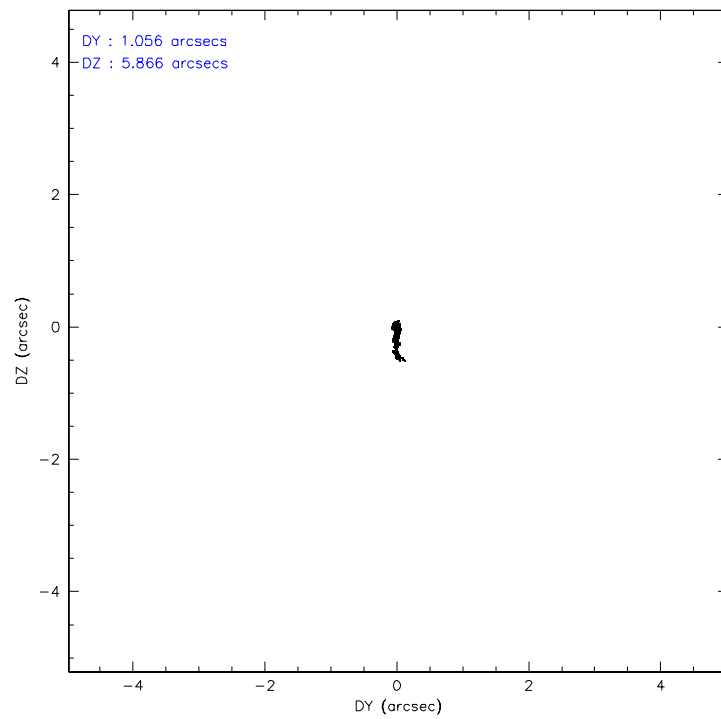
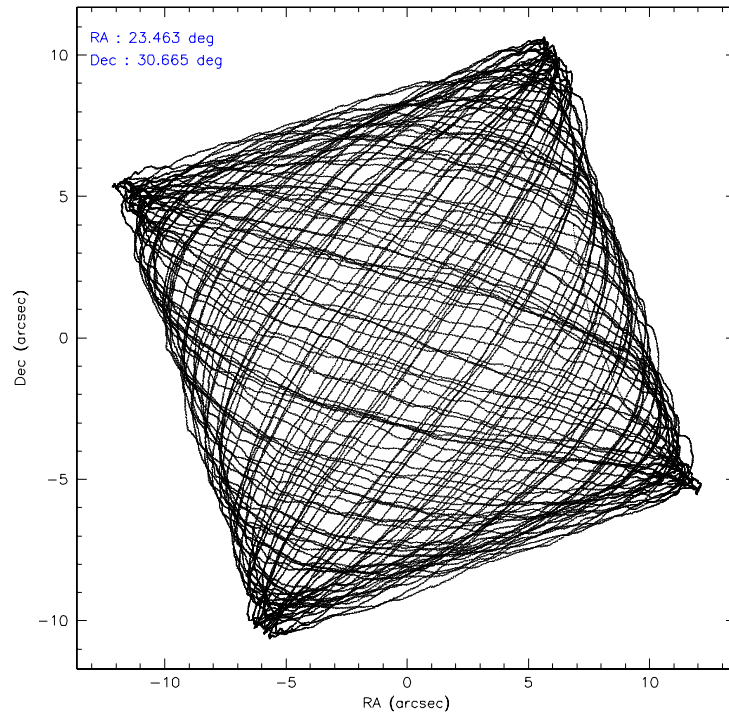
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	300284	304319	335392	358802	340401	433644
rejected events	261528	263358	293437	297587	300319	238672
rejected %	87%	86%	87%	82%	88%	55%

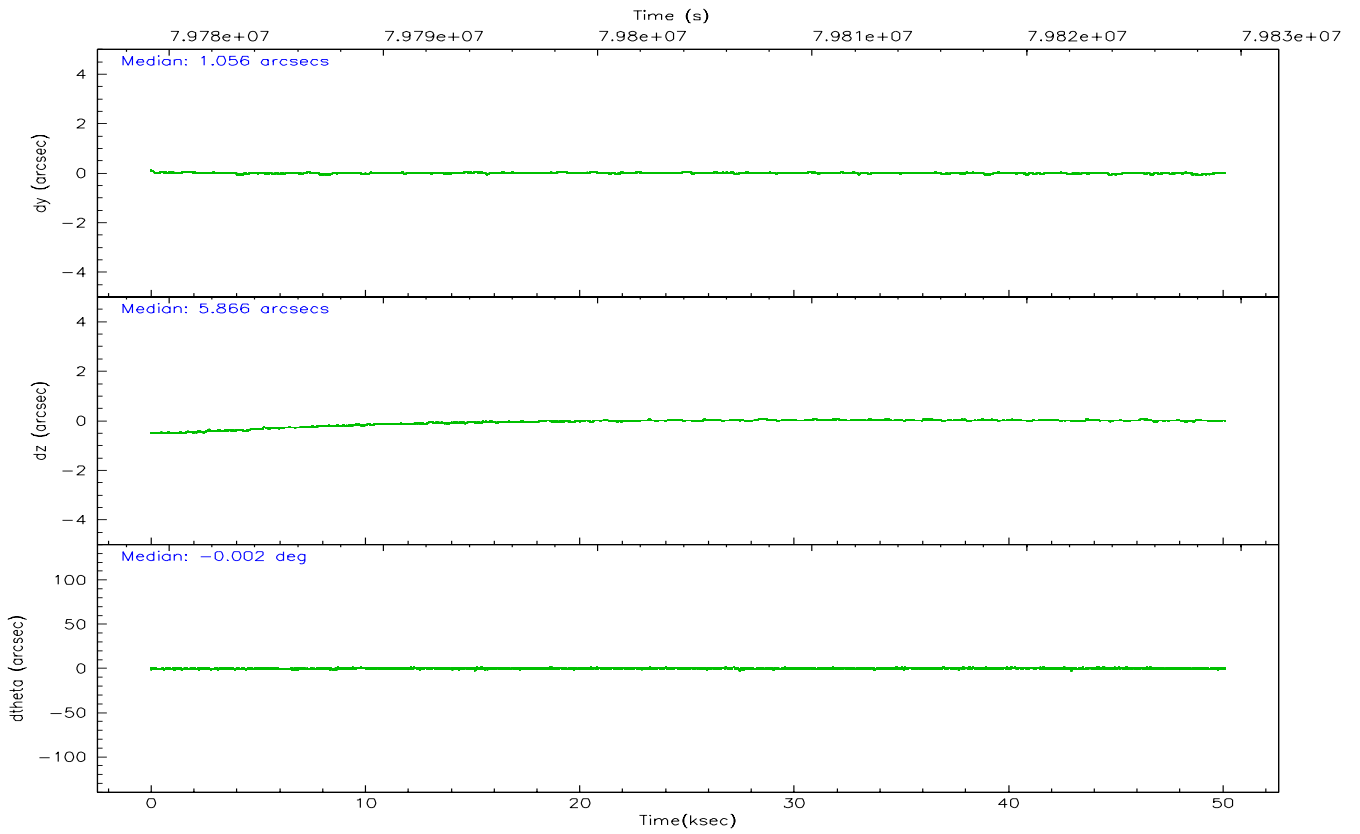
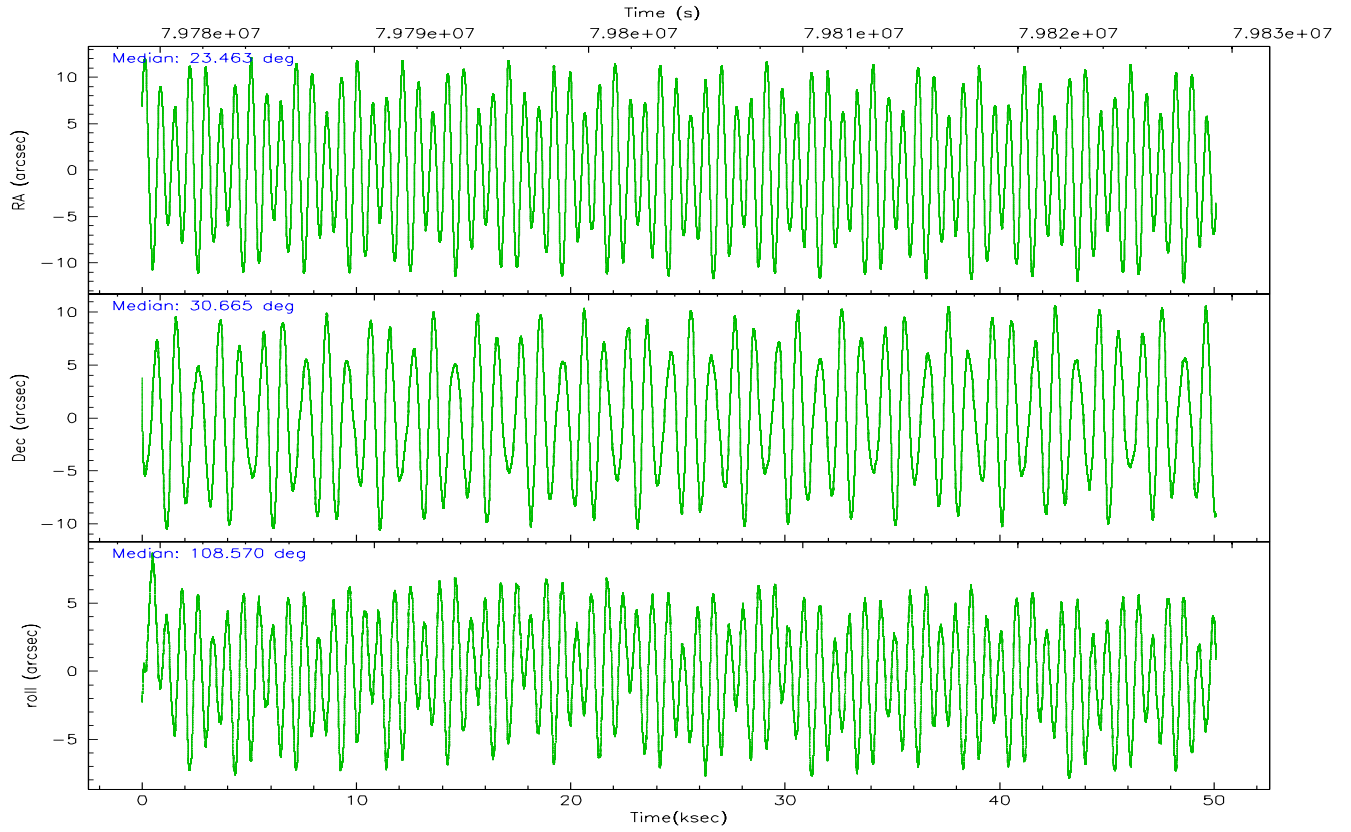
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	21949	22779	25319	37122	21894	26152
	7%	7%	7%	10%	6%	6%
grade 1 events	189	175	186	1681	177	378
	0%	0%	0%	0%	0%	0%
grade 2 events	9471	9605	9565	11775	9342	42452
	3%	3%	2%	3%	2%	9%
grade 3 events	4209	4698	4101	5048	4301	19677
	1%	1%	1%	1%	1%	4%
grade 4 events	3884	4477	4094	4998	4186	19686
	1%	1%	1%	1%	1%	4%
grade 5 events	10145	10748	9692	13905	12225	36326
	3%	3%	2%	3%	3%	8%
grade 6 events	7811	8509	7888	11370	9373	107781
	2%	2%	2%	3%	2%	24%
grade 7 events	242626	243328	274547	272903	278903	181192
	80%	79%	81%	76%	81%	41%

## 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	23.486034	23.46211780767176	Subarray requested	NONE	NONE
Pointing Dec	30.646758	30.66508076086173	Alternating exposures requested	N	N
Pointing Roll	108.357811	108.5786832437208	Primary exposure time	3.200000	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	79779269.184000	79777786.31339601			
Observation start date	2000-07-12T08:53:25	2000-07-12T08:29:46			
Observation end time	79829269.184000	79829758.94031399			
Observation end date	2000-07-12T22:46:45	2000-07-12T22:55:58			
Read mode	TIMED	TIMED			

## 2.3 Aspect



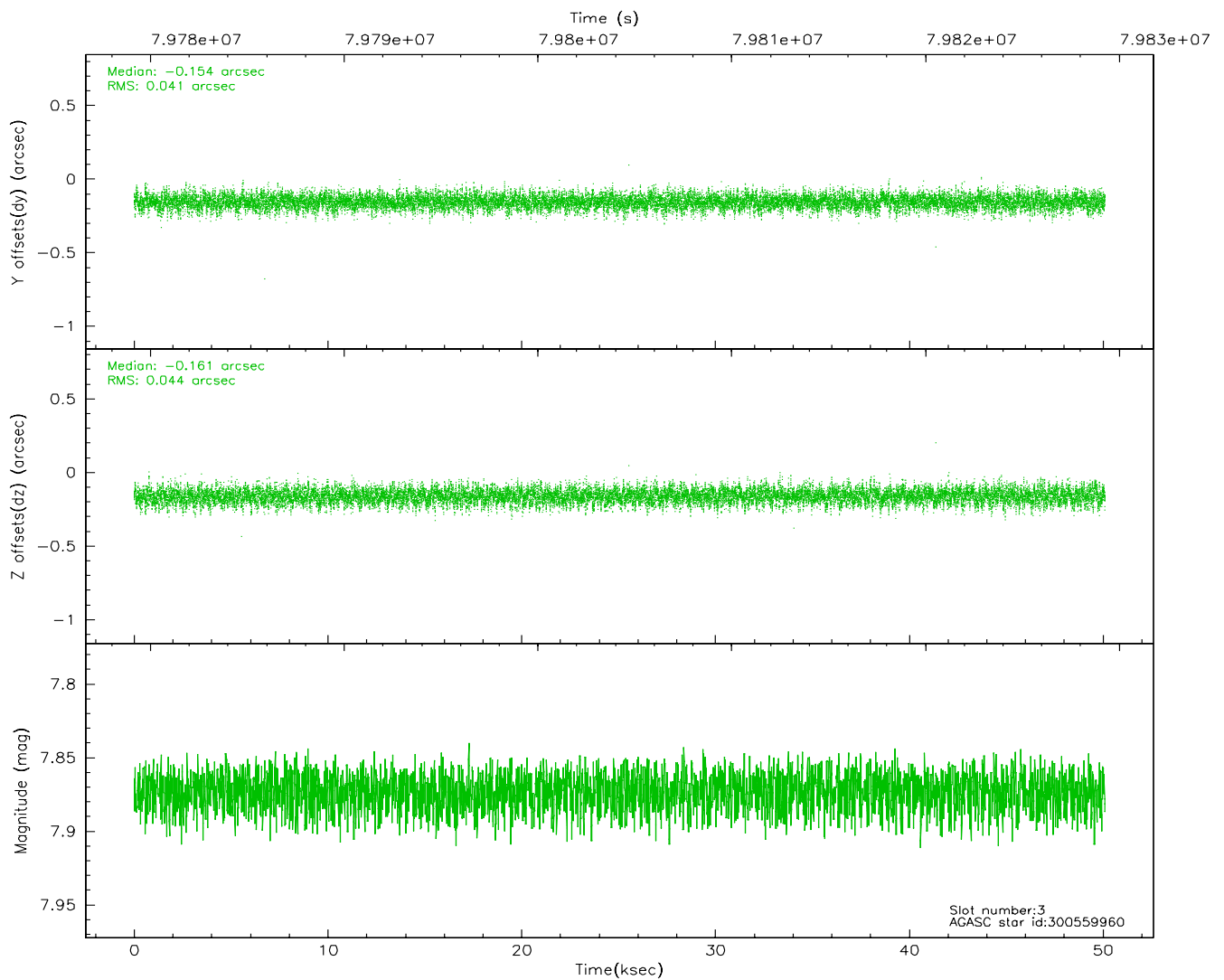
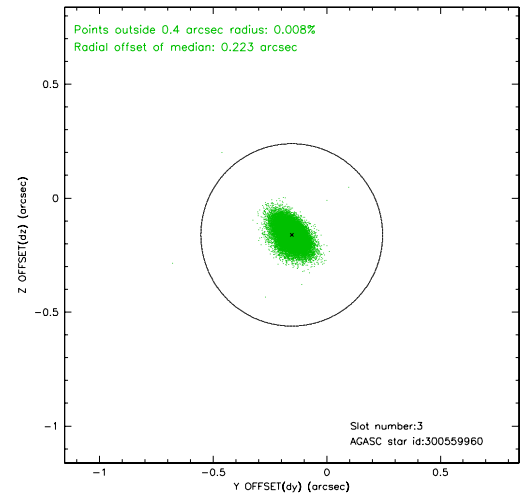
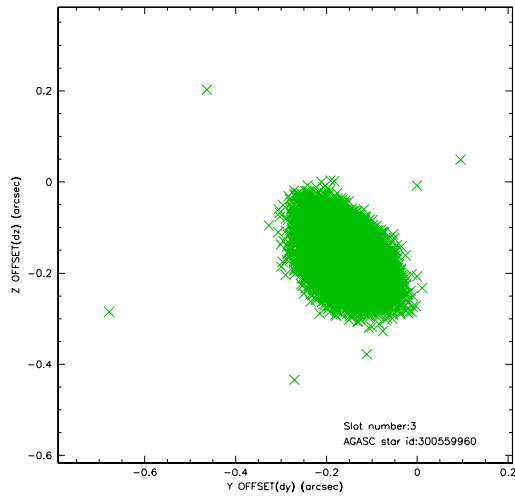


### Slot Statistics

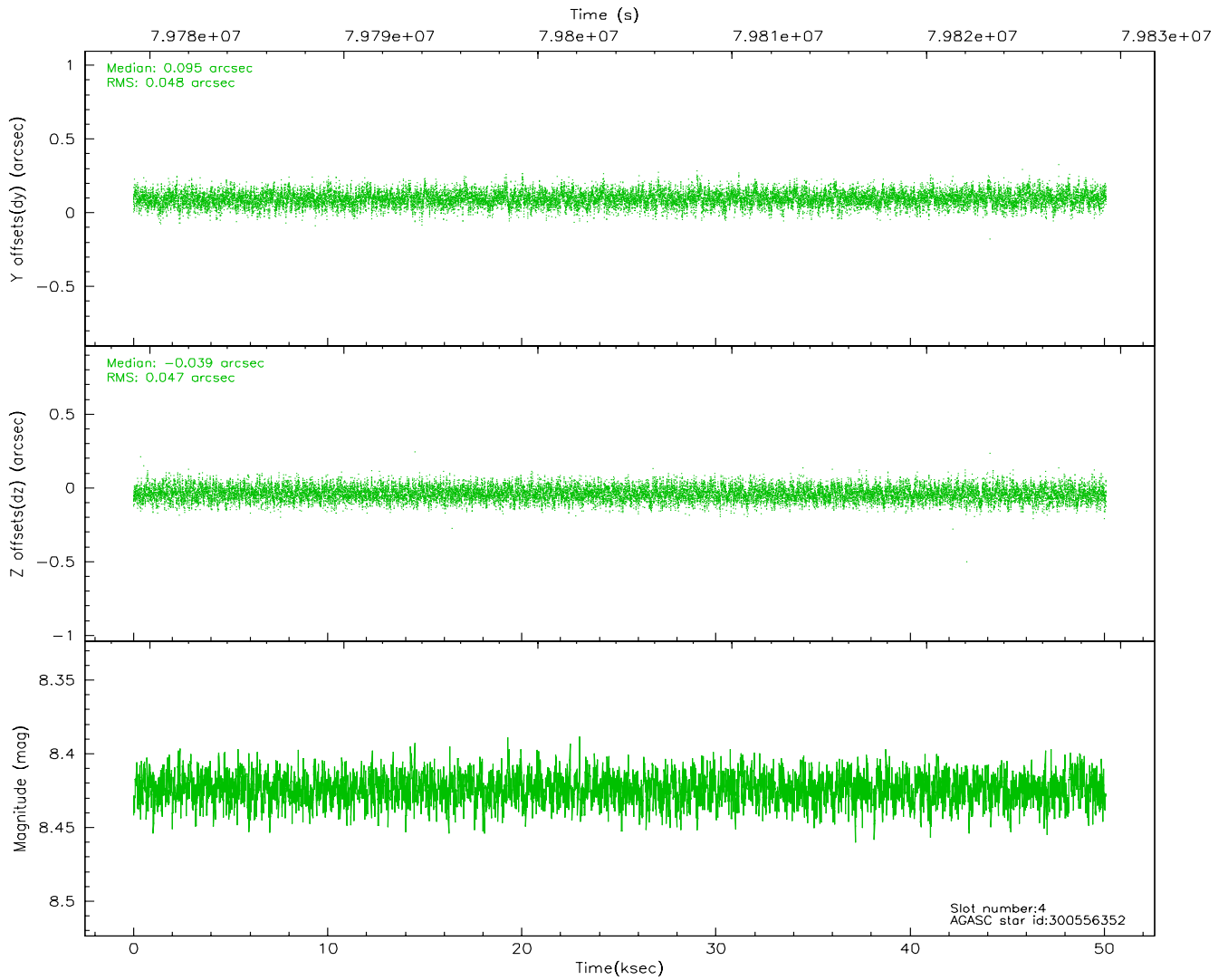
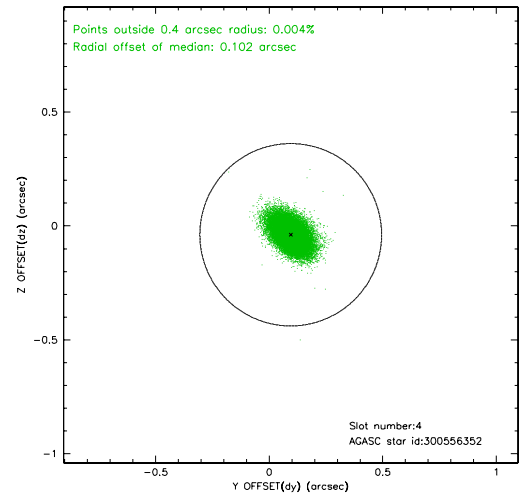
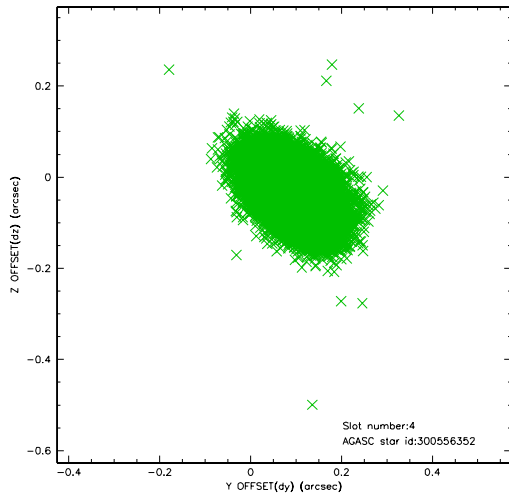
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	12223	-0.018	-0.026	0.009	0.016	0.000000	0.000000	-755.40	-835.55
1	FID	ACIS-I-4	7.18	12220	-0.092	0.027	0.006	0.010	0.000000	0.000000	2158.59	1070.68
2	FID	ACIS-I-5	7.23	12222	0.008	0.068	0.009	0.014	0.000000	0.000000	-1809.22	1068.56
3	GUIDE	300559960	7.87	24441	-0.154	-0.161	0.062	0.107	22.944463	30.624765	457.54	1616.84
4	GUIDE	300556352	8.42	24444	0.095	-0.039	0.071	0.119	23.404474	30.389211	-799.24	533.26
5	GUIDE	300553080	9.04	24433	-0.048	0.115	0.075	0.126	23.777101	30.773227	150.61	-997.12
6	GUIDE	300559160	9.41	24429	0.093	0.218	0.091	0.153	24.161026	30.632205	-701.06	-1968.90
7	GUIDE	300555392	9.46	24430	0.017	-0.133	0.083	0.141	23.346905	30.948175	1166.25	66.81

## 2.4 Star Slots

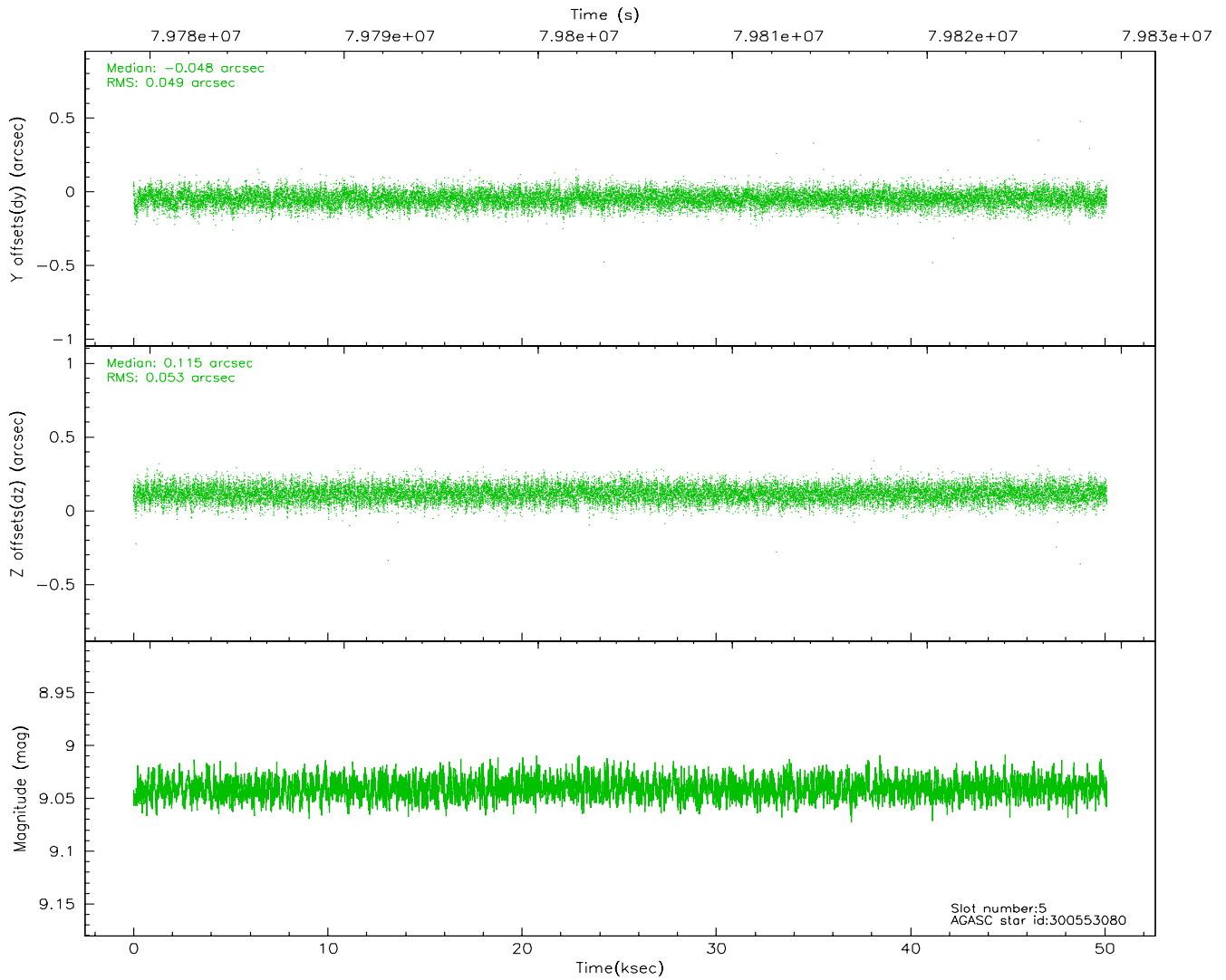
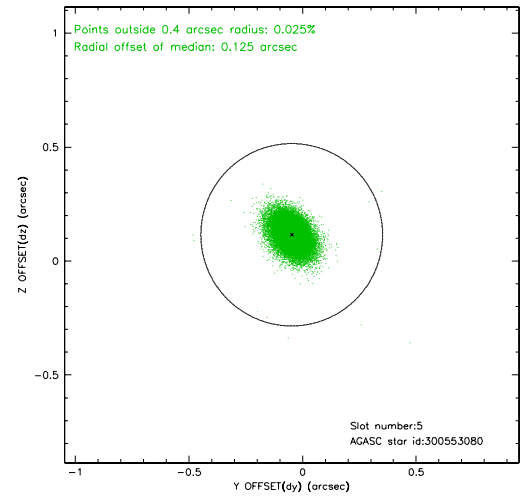
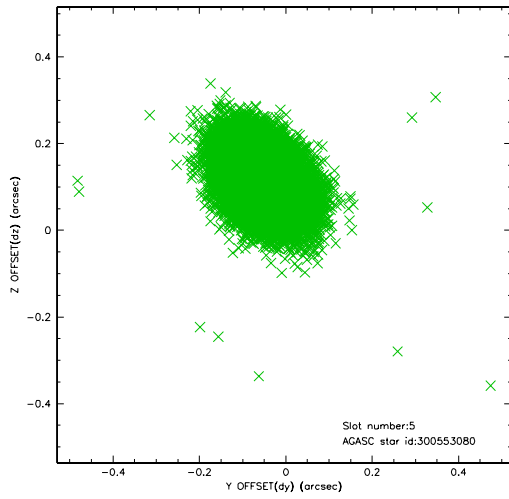
### 2.4.1 Slot 3



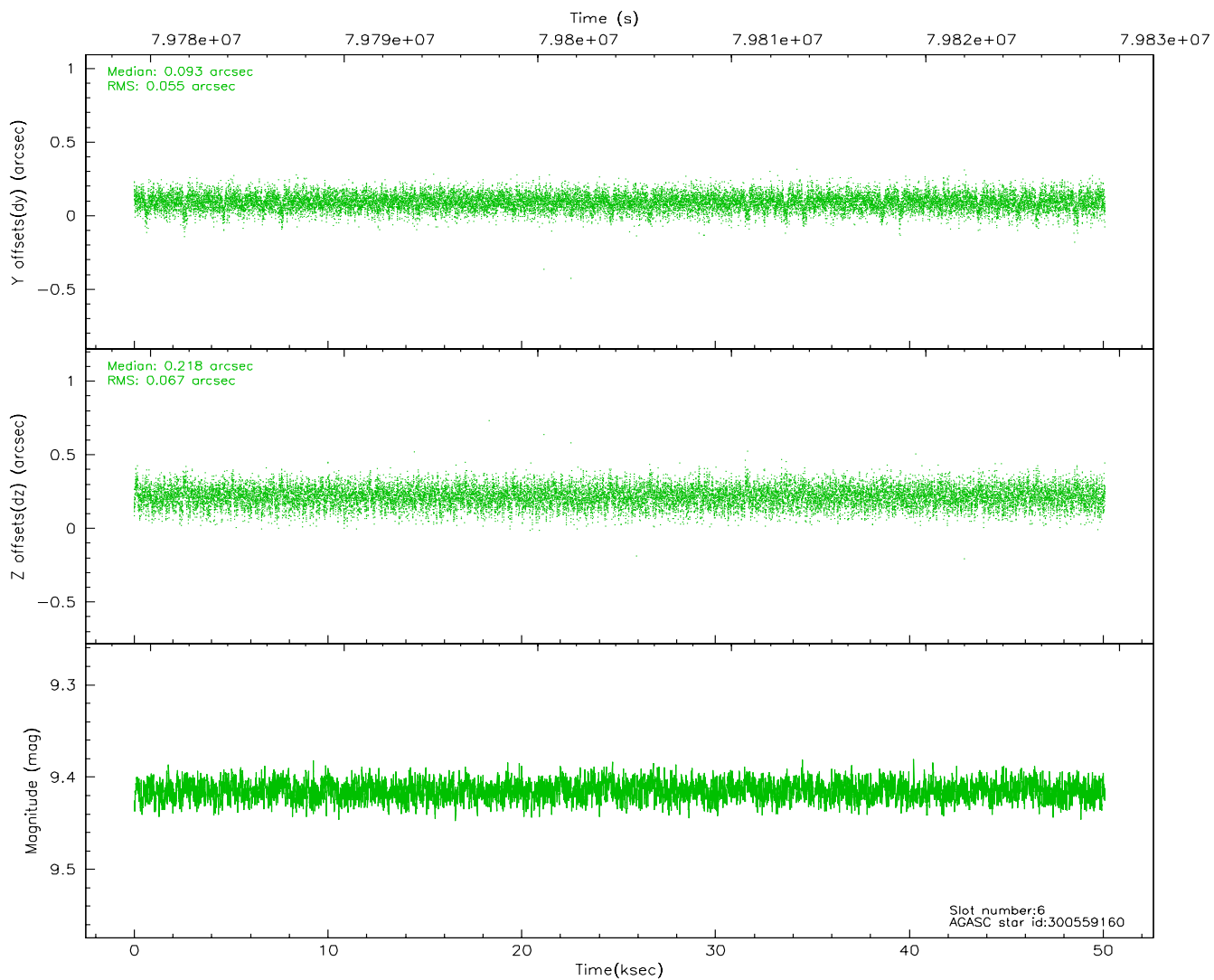
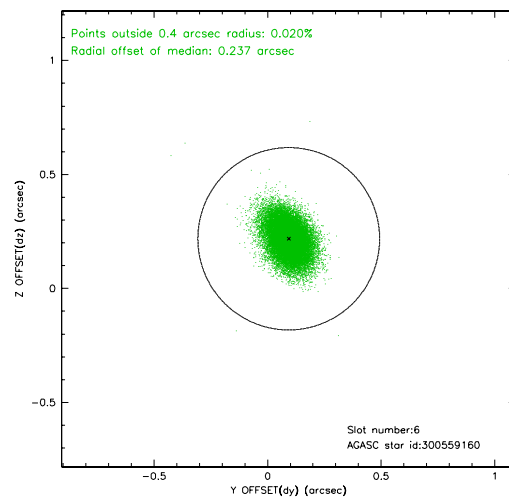
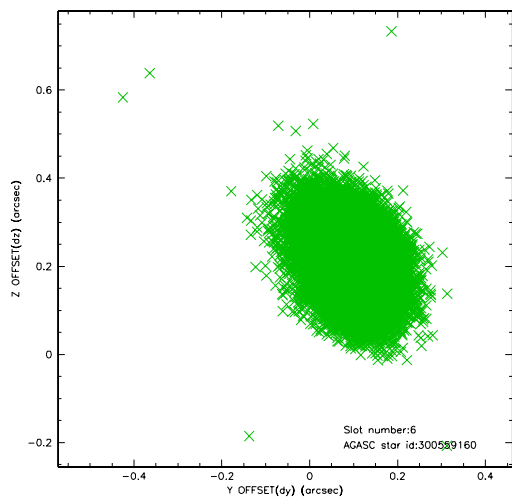
### 2.4.2 Slot 4



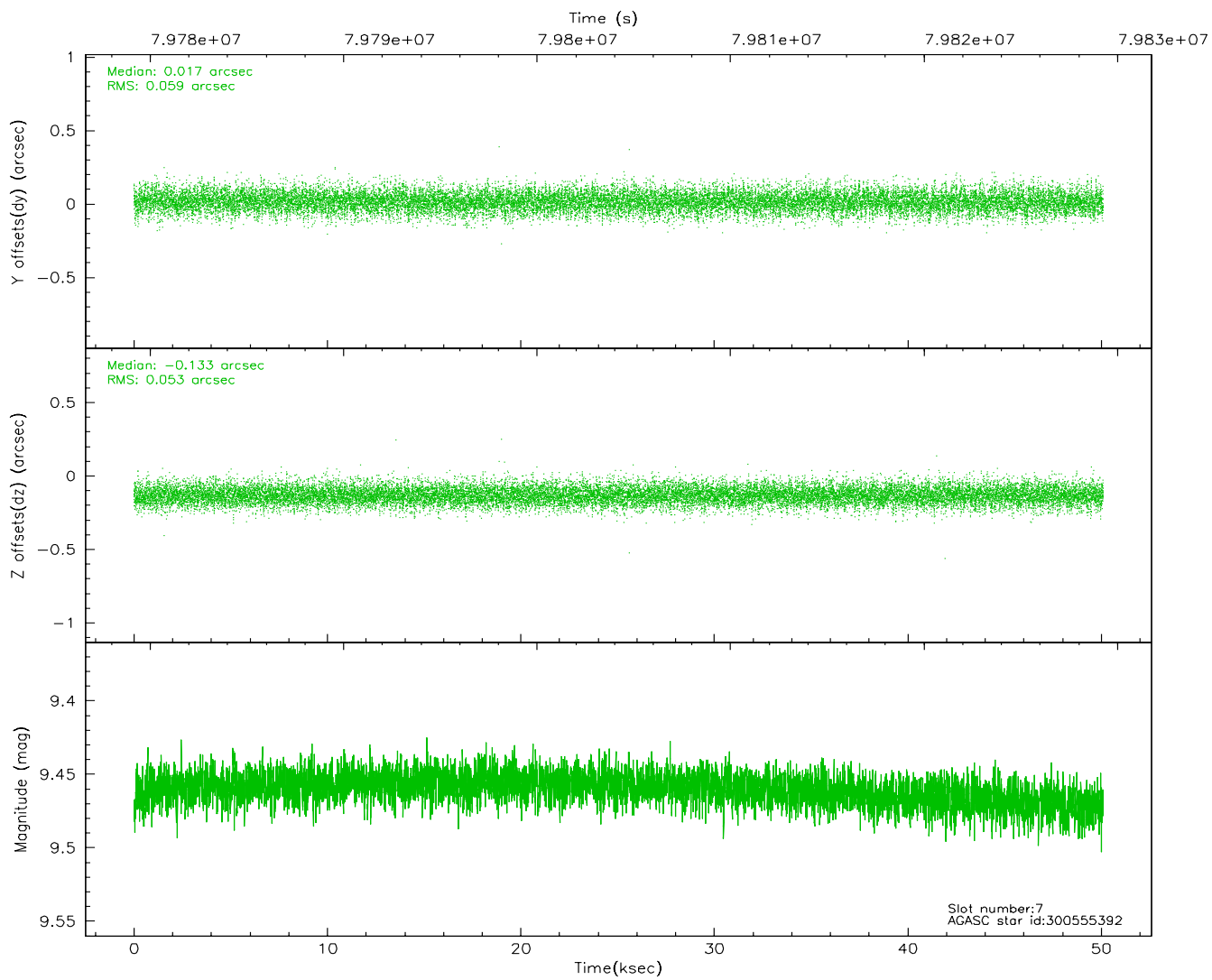
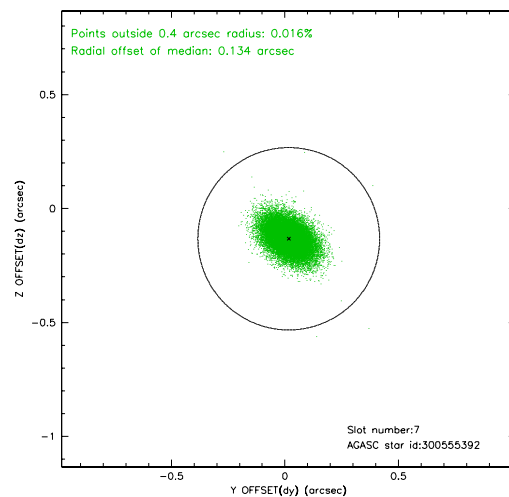
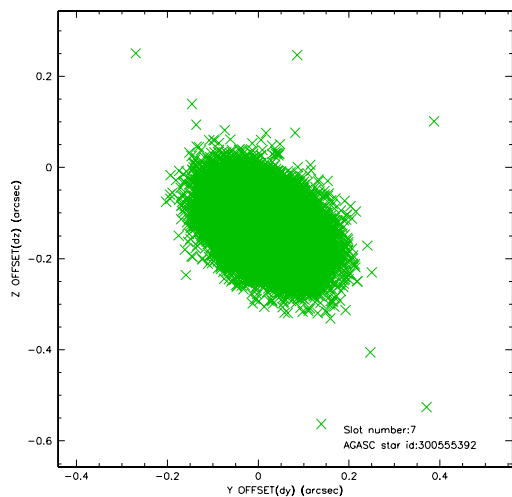
### 2.4.3 Slot 5



### 2.4.4 Slot 6

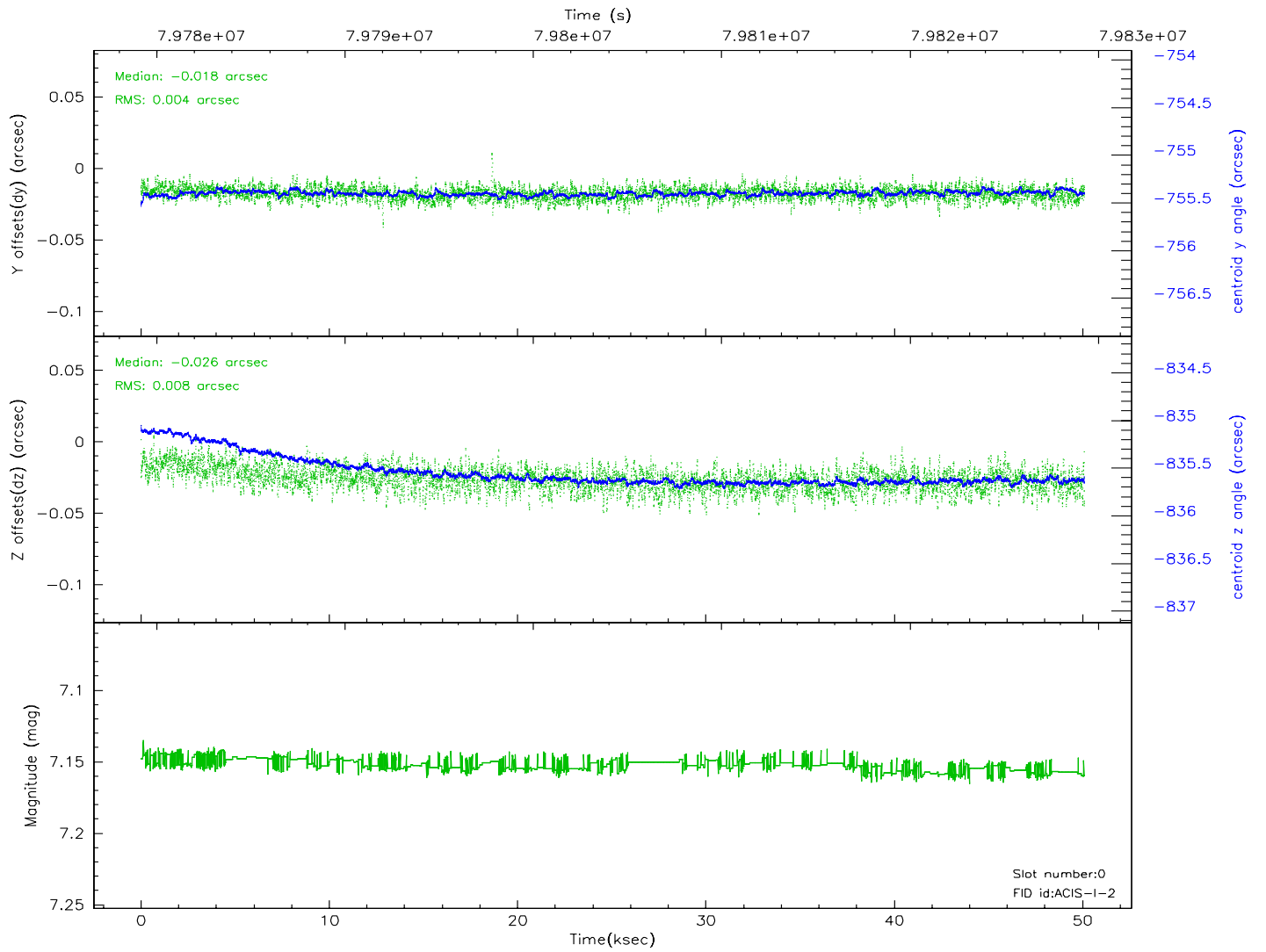
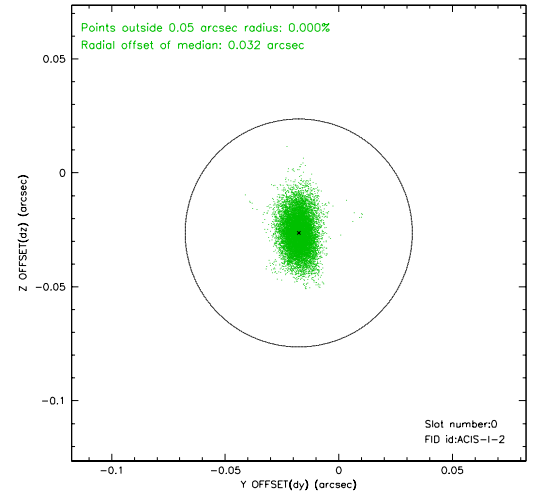
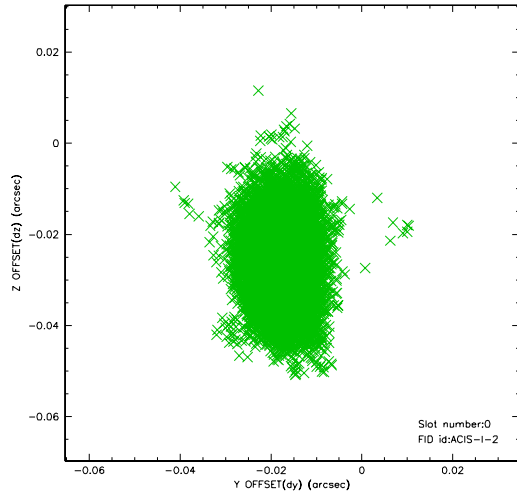


## 2.4.5 Slot 7

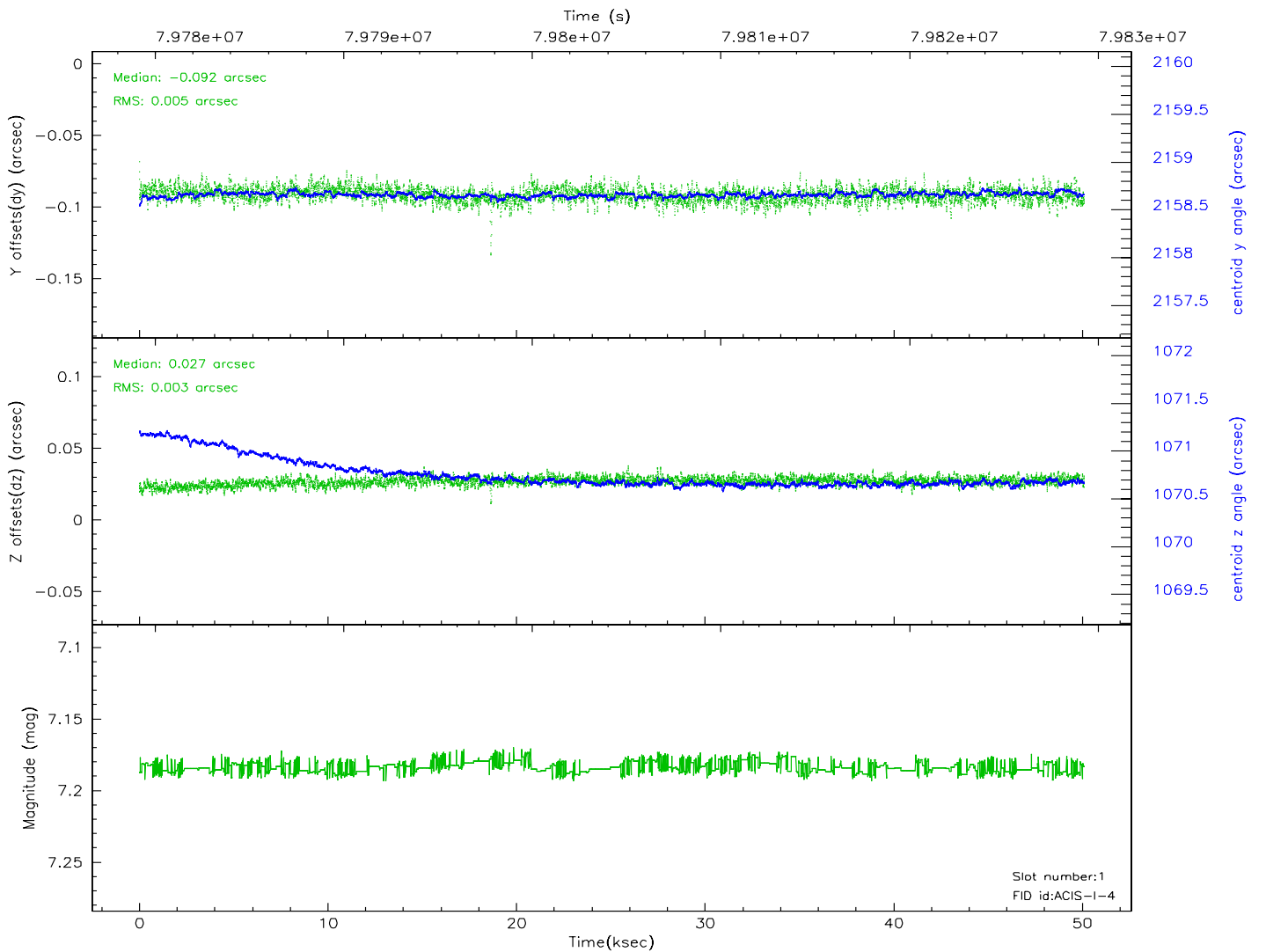
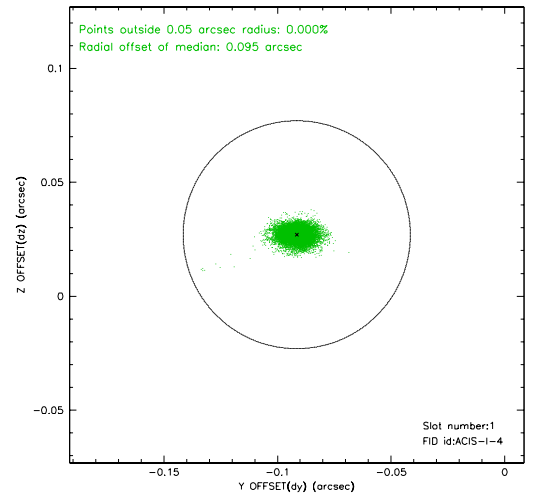
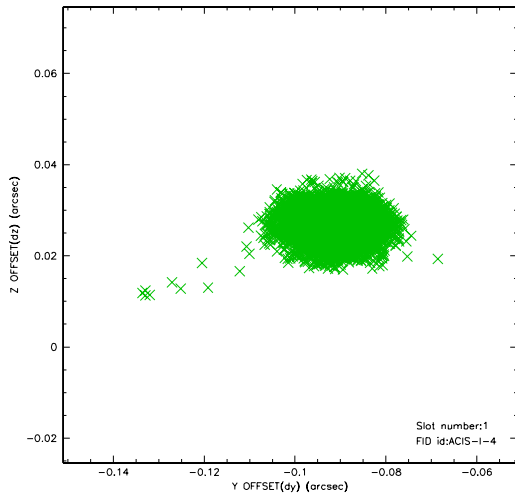


## 2.5 FID Slots

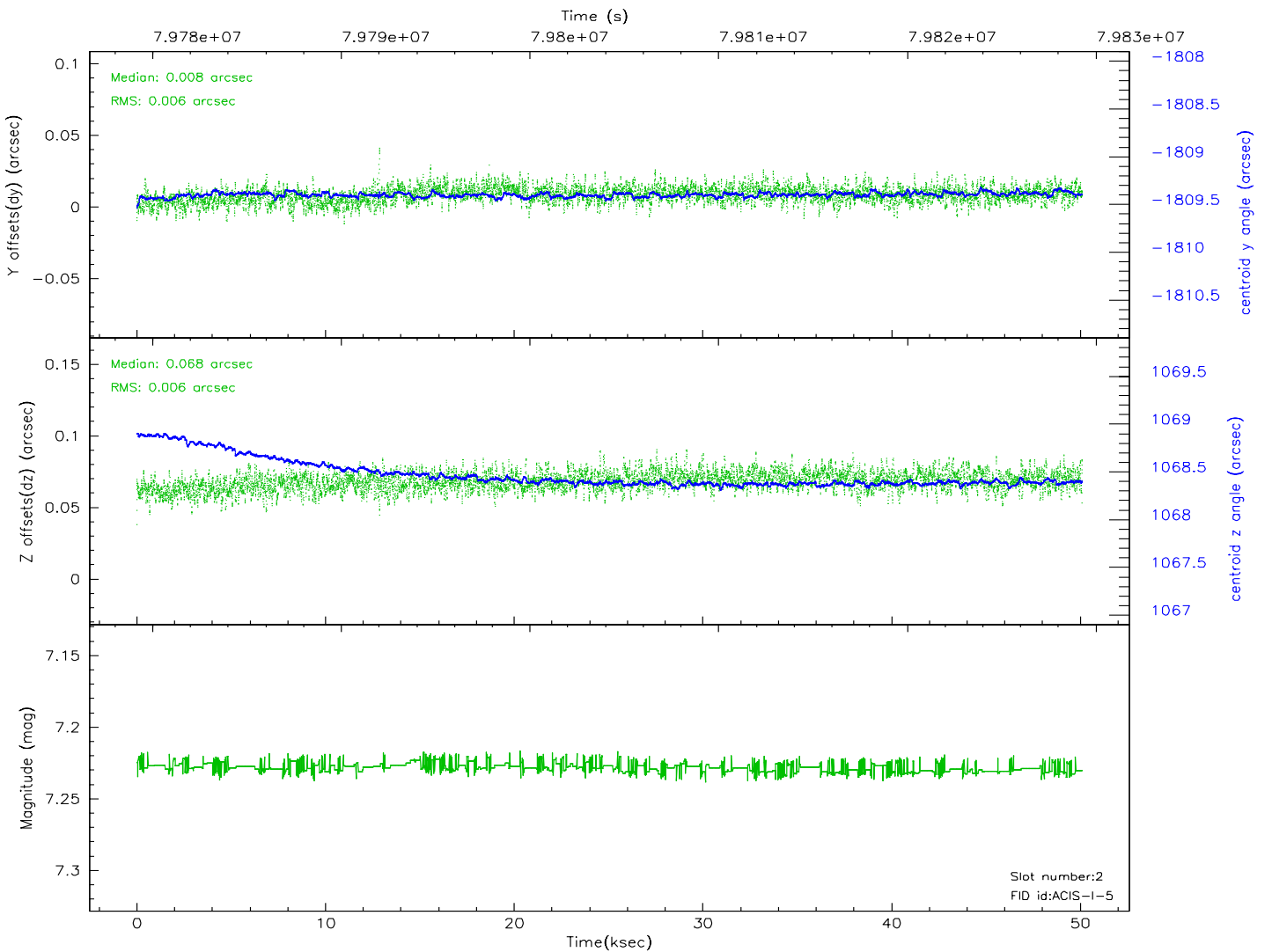
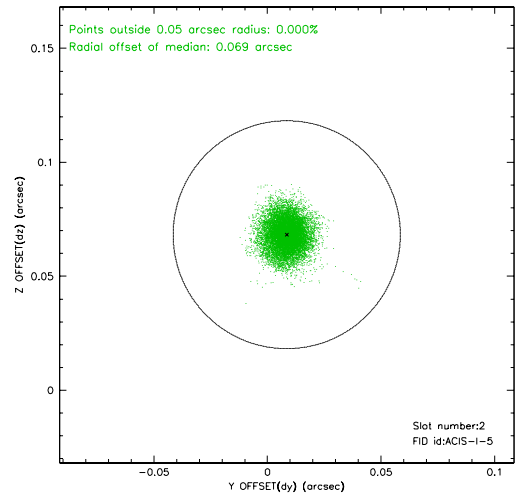
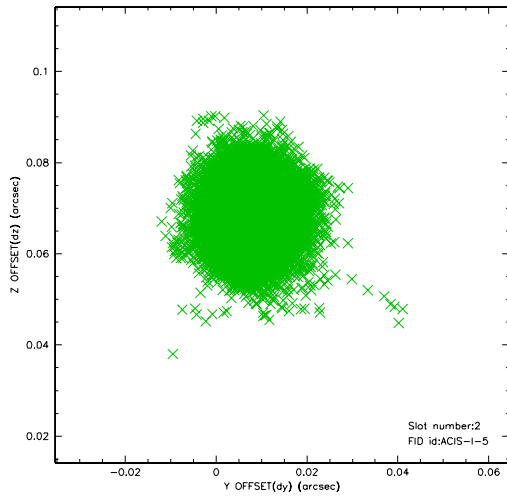
### 2.5.1 Slot 0



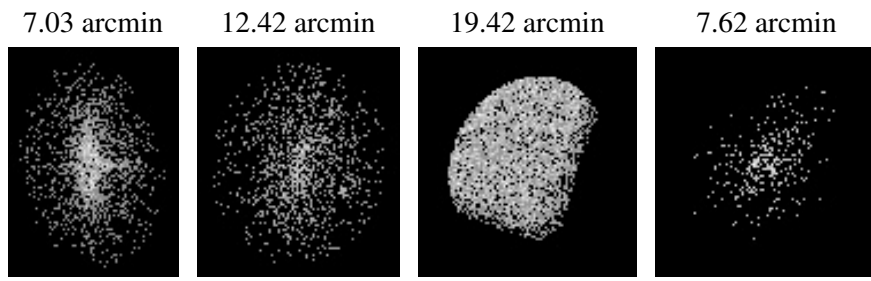
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.05.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	50.066

## A.2 Comments

Window constraint met.