

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 3393 - L2 Version 001  
Chandra X-Ray Center

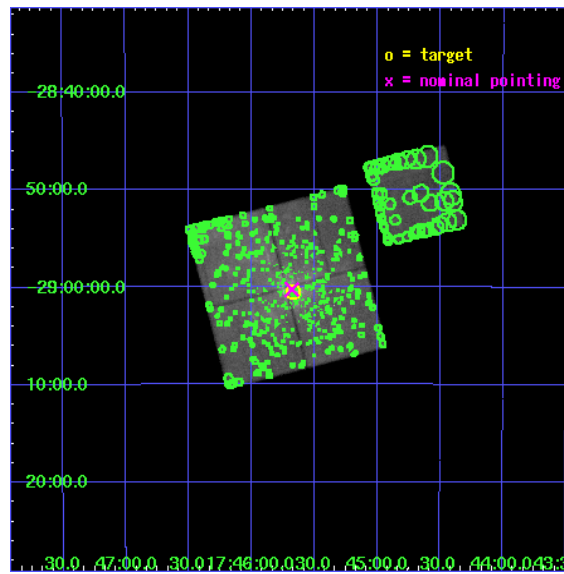
L2 Processing Date : Sep 18 2006

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# 1 Front

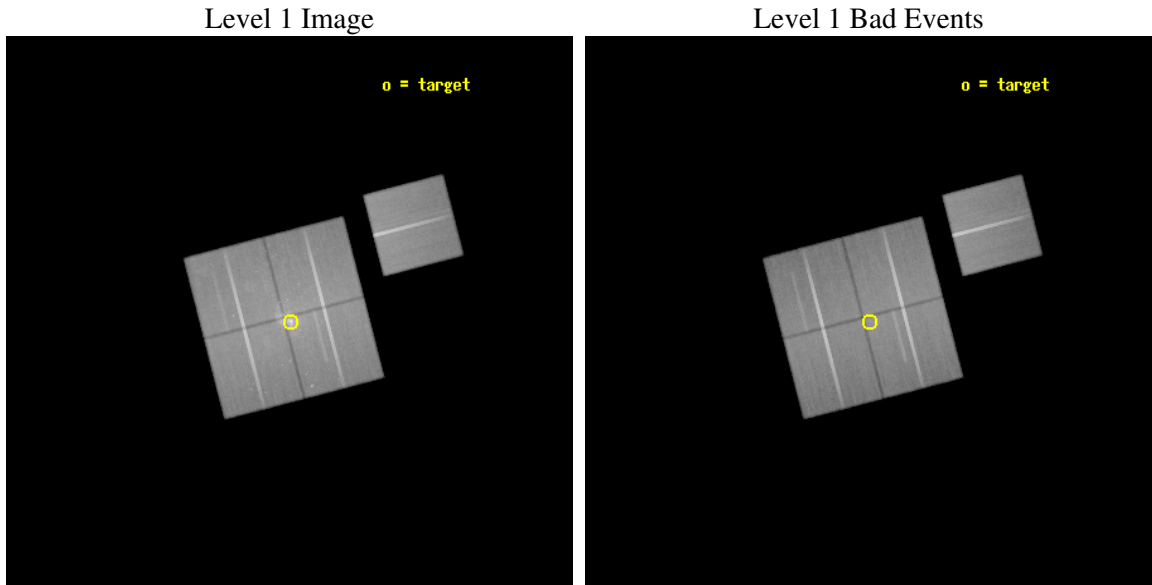
seq_num	600280
obs_id	3393
title	MONITORING THE EXTREME X-RAY FLARING OF SAGITTARIUS A* AND A DEEP SURVEY OF THE CENTRAL 40 PC OF THE GALAXY
observer	Dr. Frederick Baganoff
object	SGR A*
dtcycle	0
cycle	P
ra_targ	266.416667
dec_targ	-29.007778
ra_nom	266.41992221112
dec_nom	-29.004069152891
roll_nom	75.510266358945
revision	2
ontime	160118.05869201
livetime	158025.998378
ontime0	160118.05871192
ontime1	160111.7767615
ontime2	160114.91773167
ontime3	160118.05869201
ontime6	160108.63577133
l2events	1166253



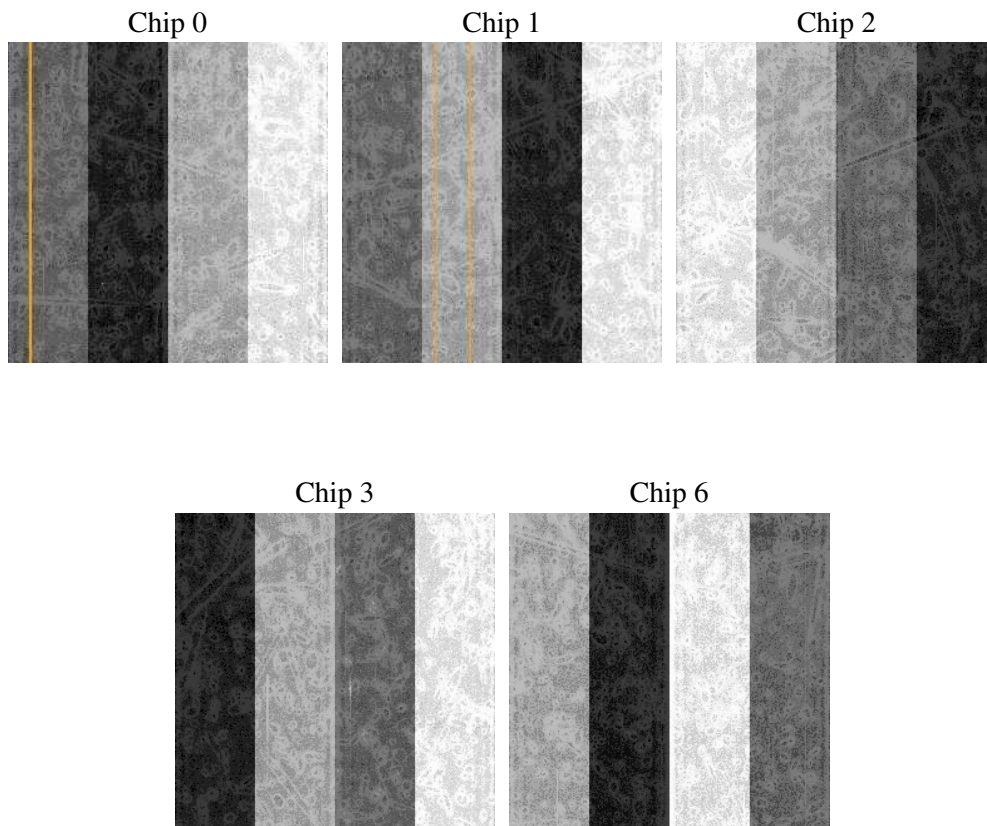
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-09-18T06:37:10
revision	2

sched_exp_time	160000.000000
ontime	160122.30259395
ontime0	160122.30261385
ontime1	160116.02066344
ontime2	160119.16163361
ontime3	160122.30259395
ontime6	160112.87967327
ll events	5578406

### 2.1.4 Events

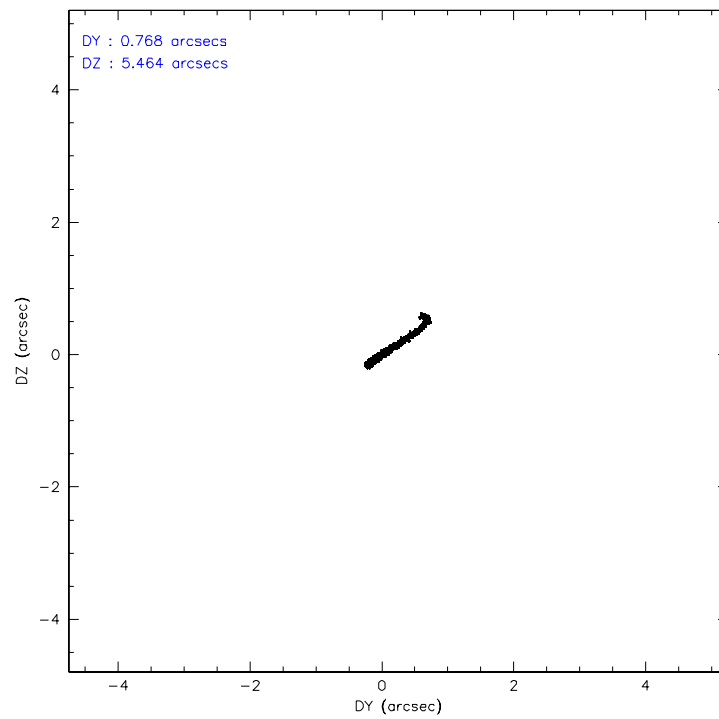
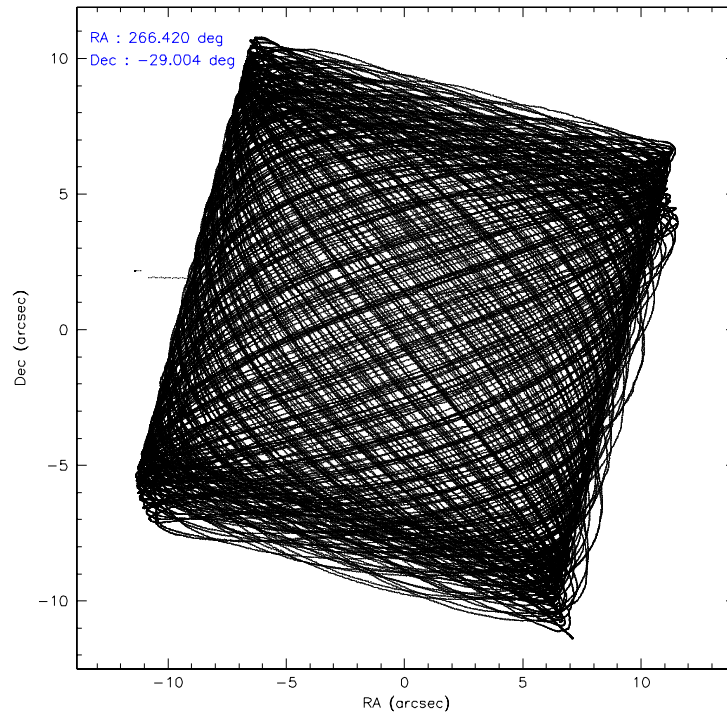
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	1145001	1073758	1139504	1177089	1043054
rejected events	803341	813674	893821	885175	895165
rejected %	70%	75%	78%	75%	85%

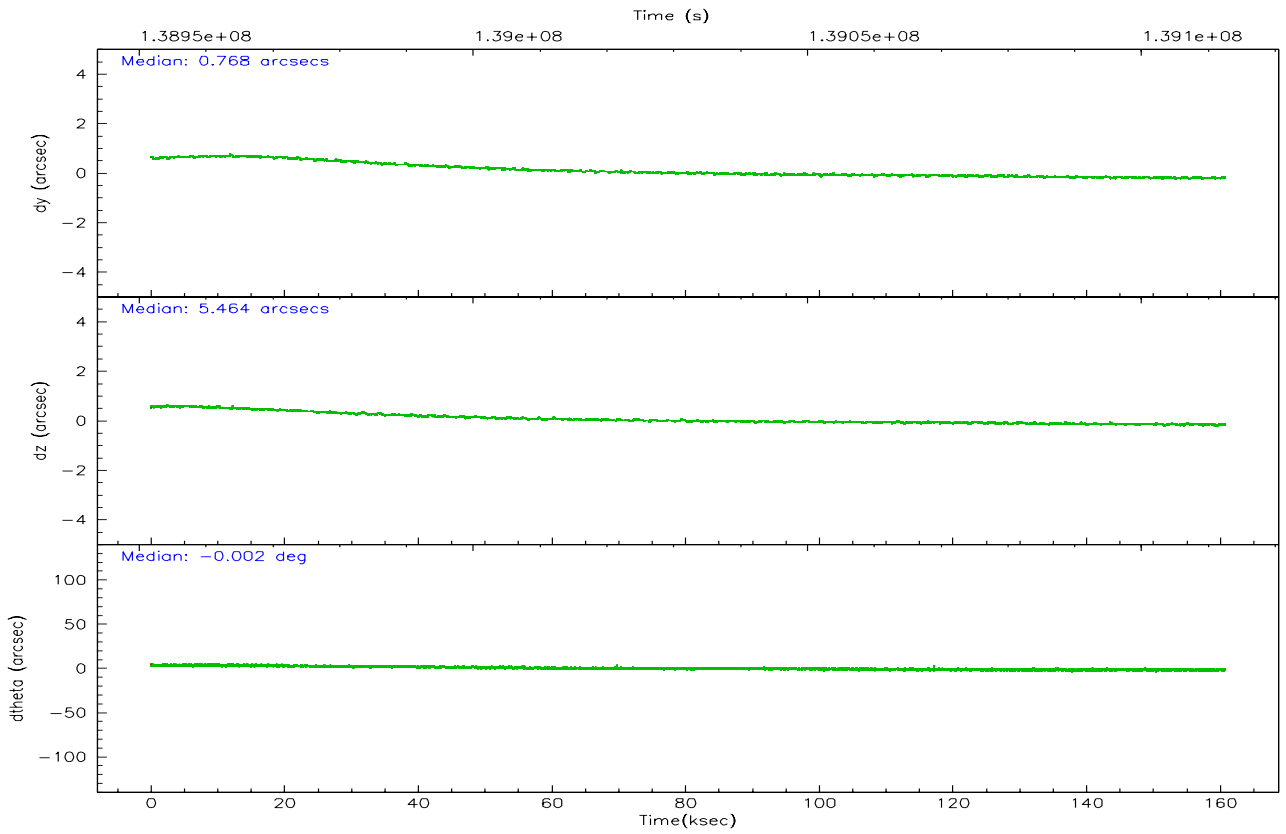
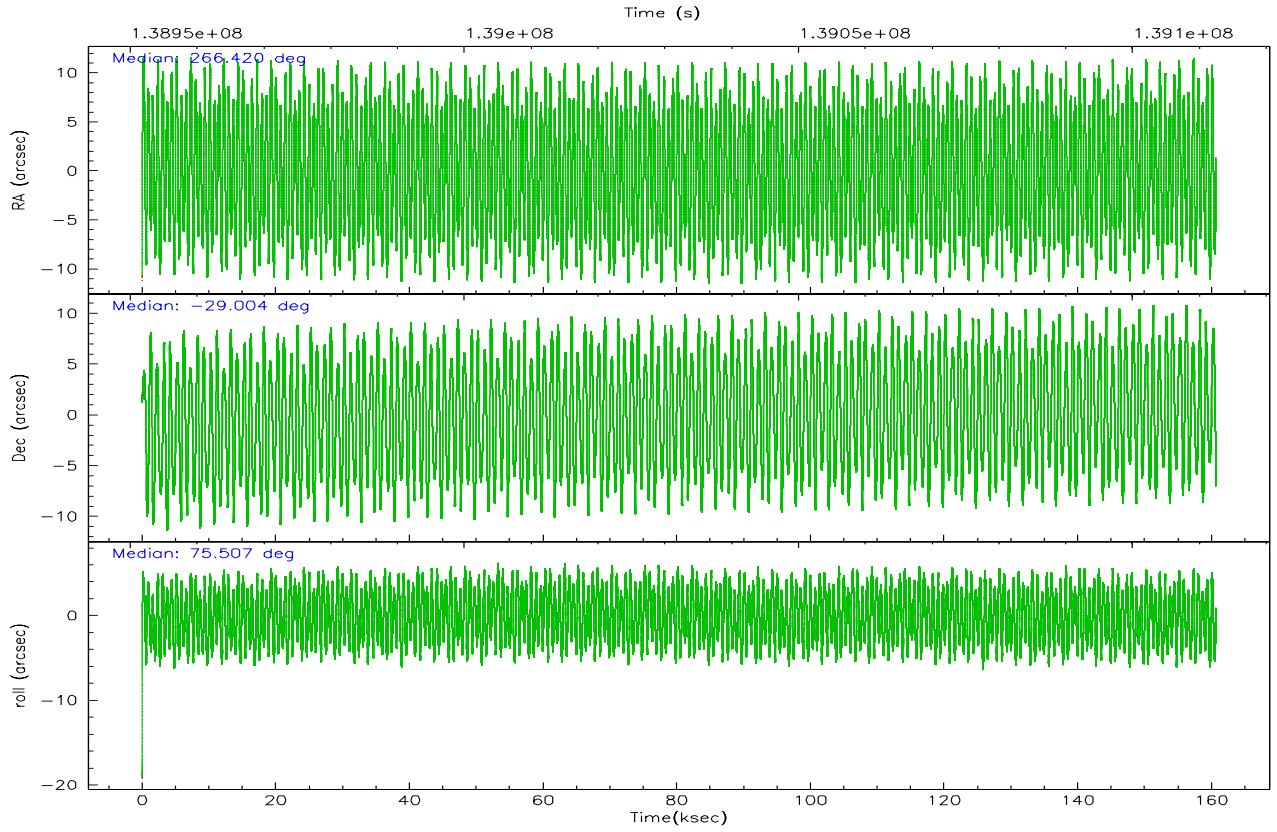
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	205483	144556	138456	169996	69285
	17%	13%	12%	14%	6%
grade 1 events	1251	889	891	1117	594
	0%	0%	0%	0%	0%
grade 2 events	56549	44747	43847	48385	27834
	4%	4%	3%	4%	2%
grade 3 events	21820	18675	16727	19365	12952
	1%	1%	1%	1%	1%
grade 4 events	20907	18577	16695	19504	12622
	1%	1%	1%	1%	1%
grade 5 events	38366	41000	35684	41177	43706
	3%	3%	3%	3%	4%
grade 6 events	36903	33531	29961	34669	25201
	3%	3%	2%	2%	2%
grade 7 events	763722	771783	857243	842876	850860
	66%	71%	75%	71%	81%

## 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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	266.428394	266.4199222111226	Subarray requested	NONE	NONE
Pointing Dec	-29.030450	-29.00406915289057	Alternating exposures requested	N	N
Pointing Roll	75.305690	75.51026635894509	Primary exposure time	0.000000	3.1
Window start time	138941104.184000	138941104.184000			
Window stop time	139119184.184000	139119184.184000			
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	138952513.184000	138951284.11461			
Observation start date	2002-05-28T05:54:09	2002-05-28T05:34:44			
Observation end time	139112513.184000	139113313.04622			
Observation end date	2002-05-30T02:20:49	2002-05-30T02:35:13			
Read mode	TIMED	TIMED			

## 2.3 Aspect



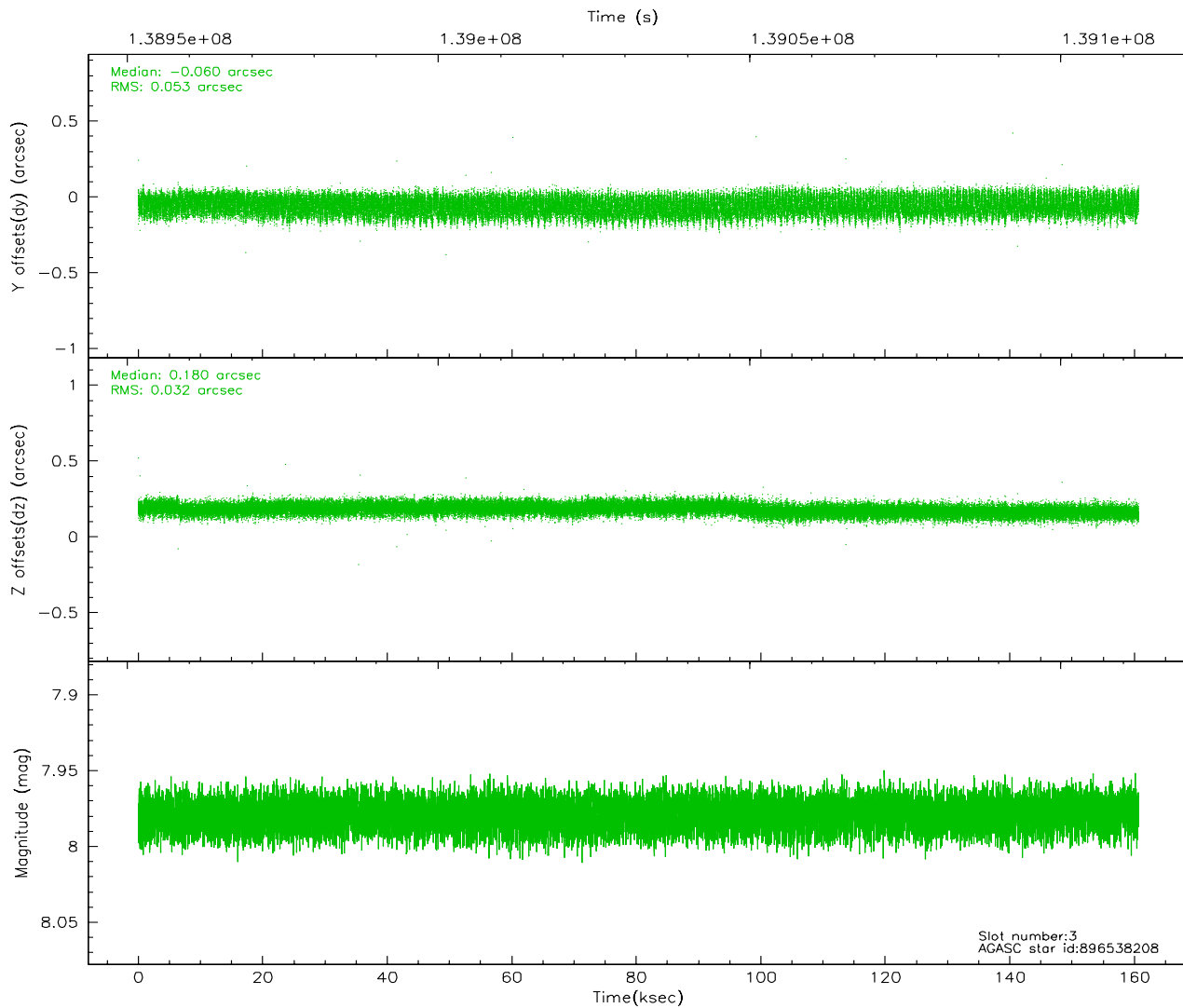
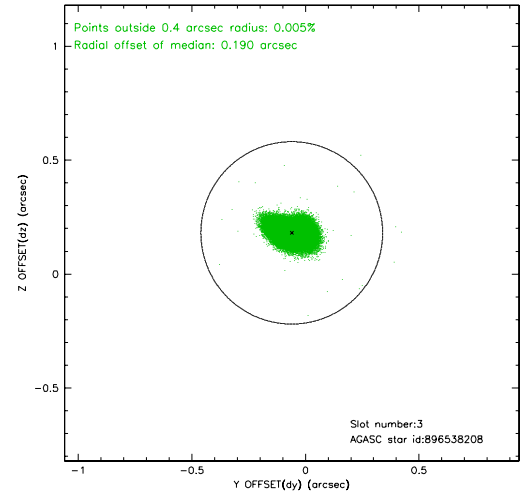
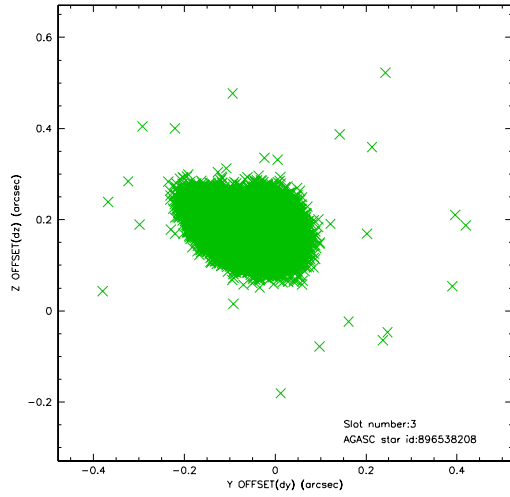


### Slot Statistics

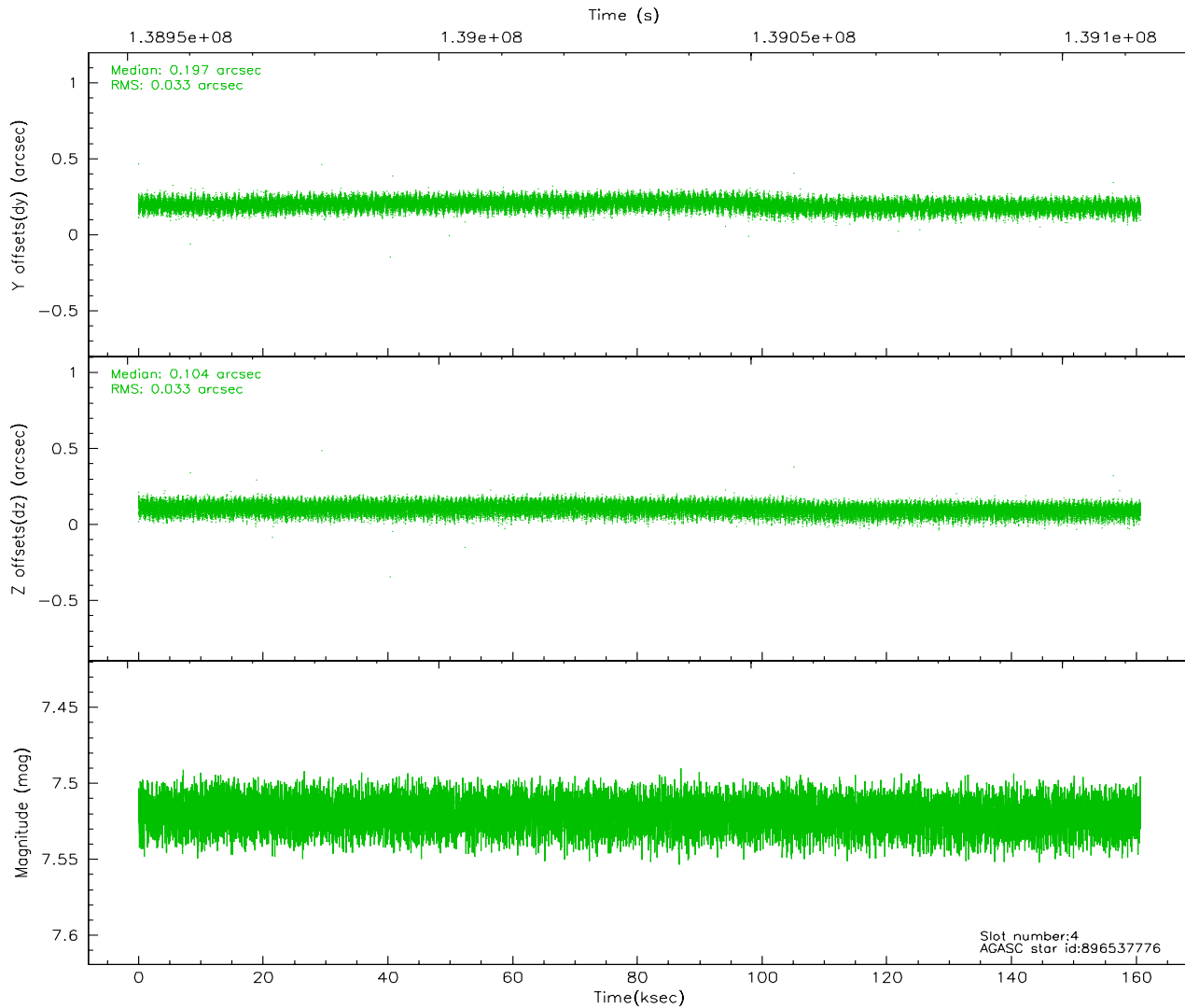
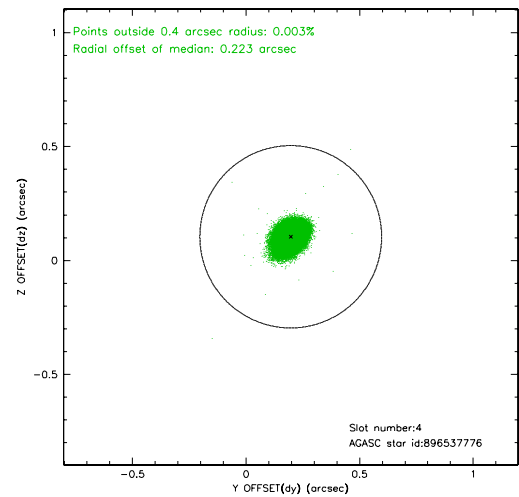
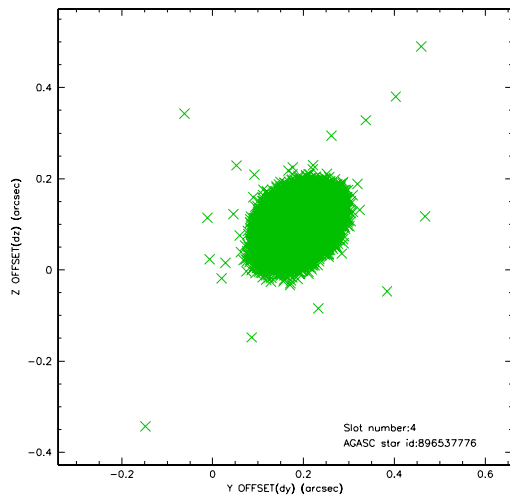
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	39201	-0.037	0.030	0.010	0.017	0.000000	0.000000	938.93	-828.87
1	FID	ACIS-I-5	7.24	39198	-0.023	0.020	0.010	0.017	0.000000	0.000000	-1809.24	1068.65
2	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	896538208	7.98	78399	-0.060	0.180	0.066	0.105	267.176969	-28.671626	1842.47	-1961.46
4	GUIDE	896537776	7.52	78400	0.197	0.104	0.050	0.081	266.655684	-29.665673	-2031.75	-1268.48
5	GUIDE	896403224	8.29	78392	0.245	-0.124	0.084	0.136	265.612825	-29.438915	-2079.30	2097.45
6	GUIDE	896534664	8.20	78258	-0.093	-0.047	0.069	0.113	266.405570	-28.407461	2151.21	638.57
7	GUIDE	896538696	6.82	78405	-0.285	-0.116	0.067	0.100	266.298470	-28.325572	2349.90	1041.60

## 2.4 Star Slots

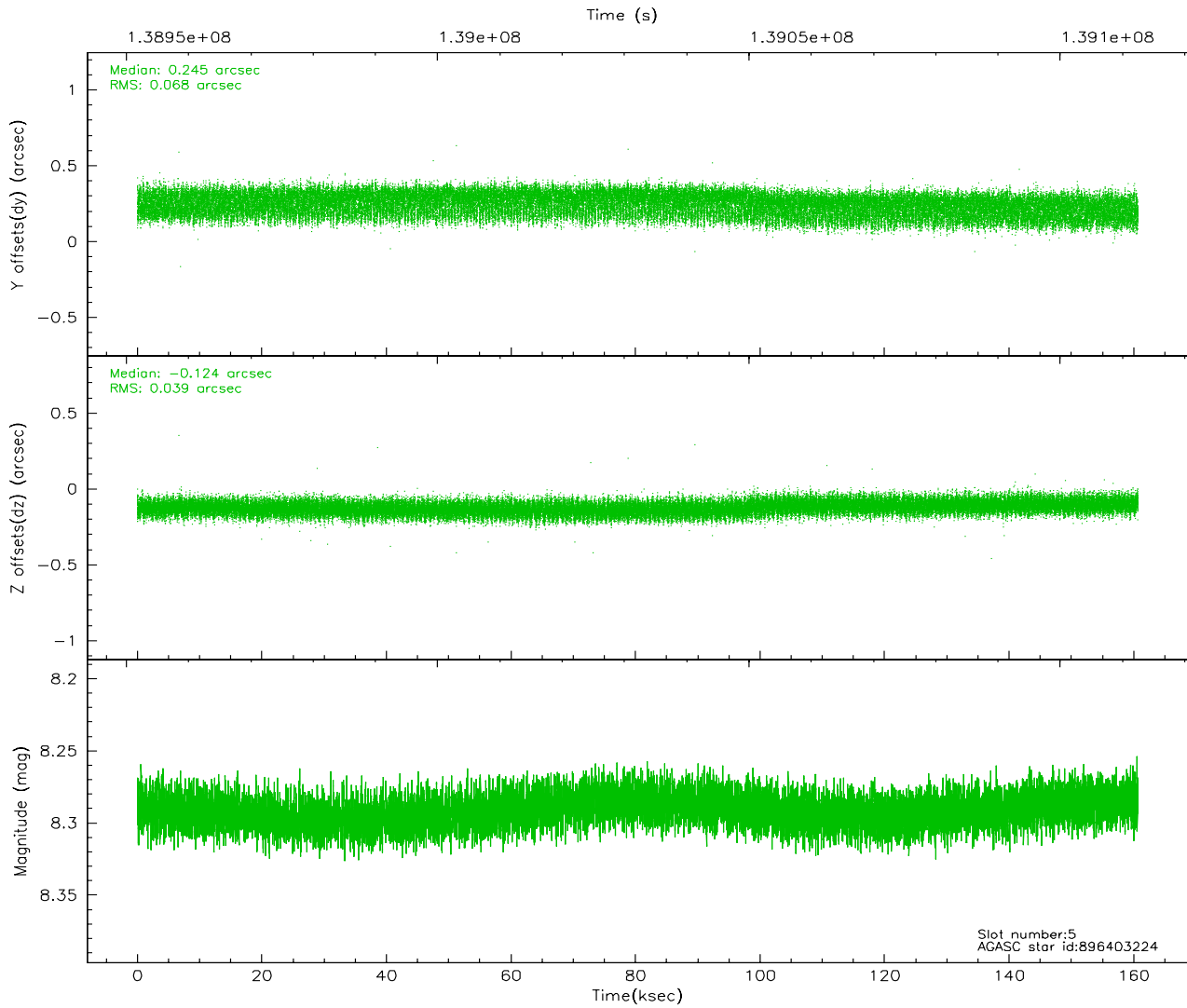
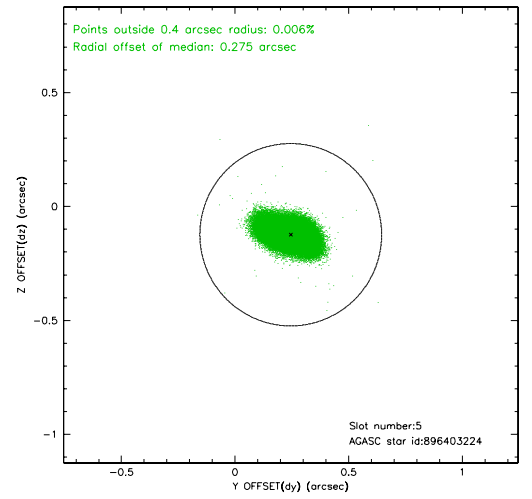
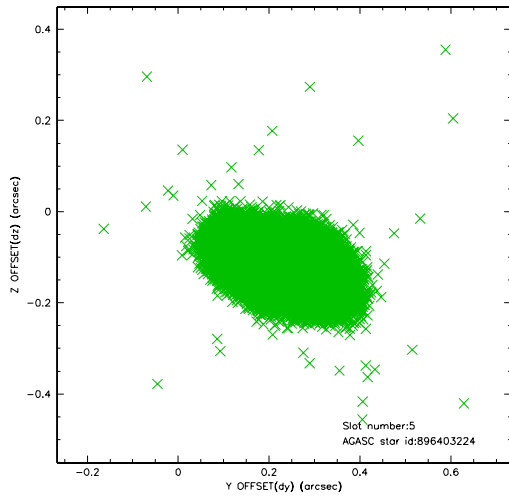
### 2.4.1 Slot 3



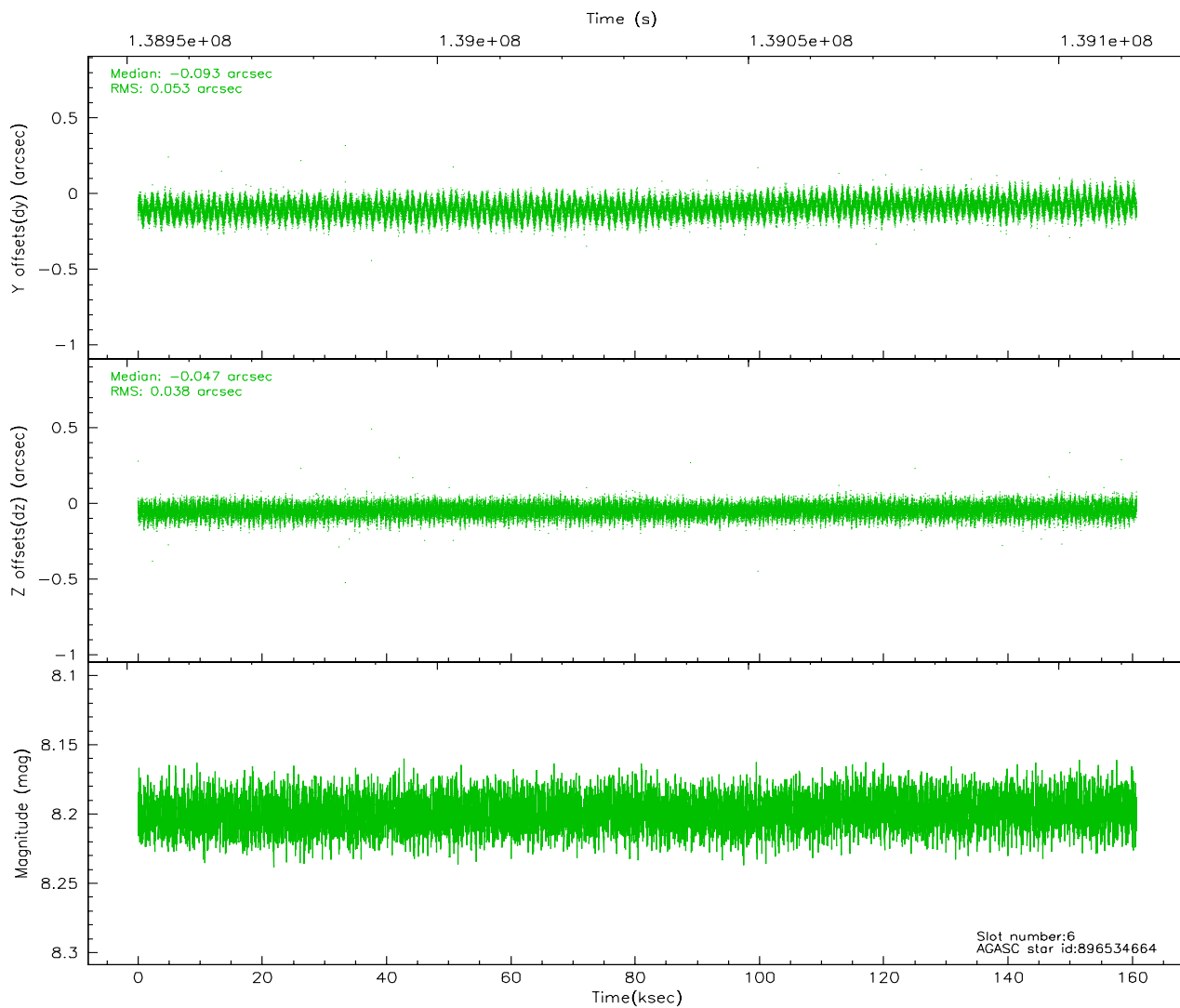
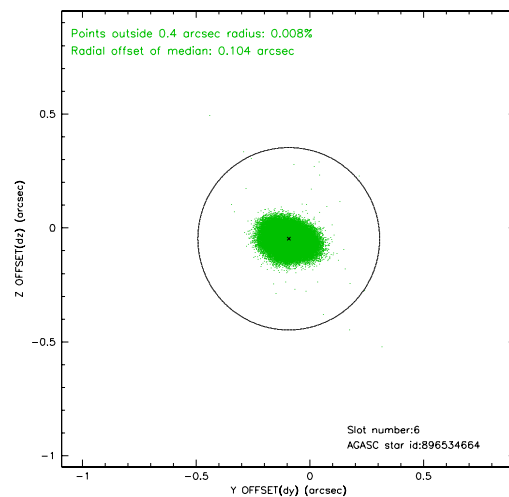
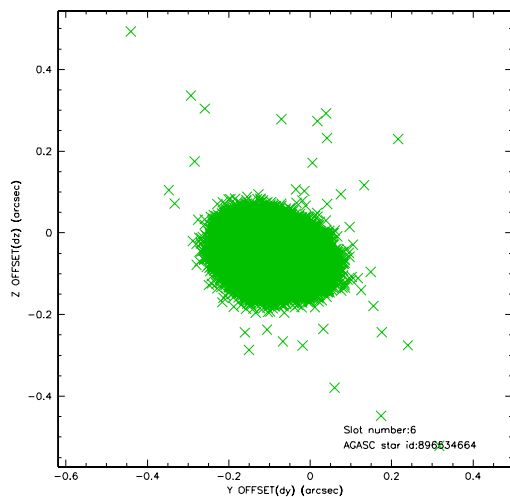
## 2.4.2 Slot 4



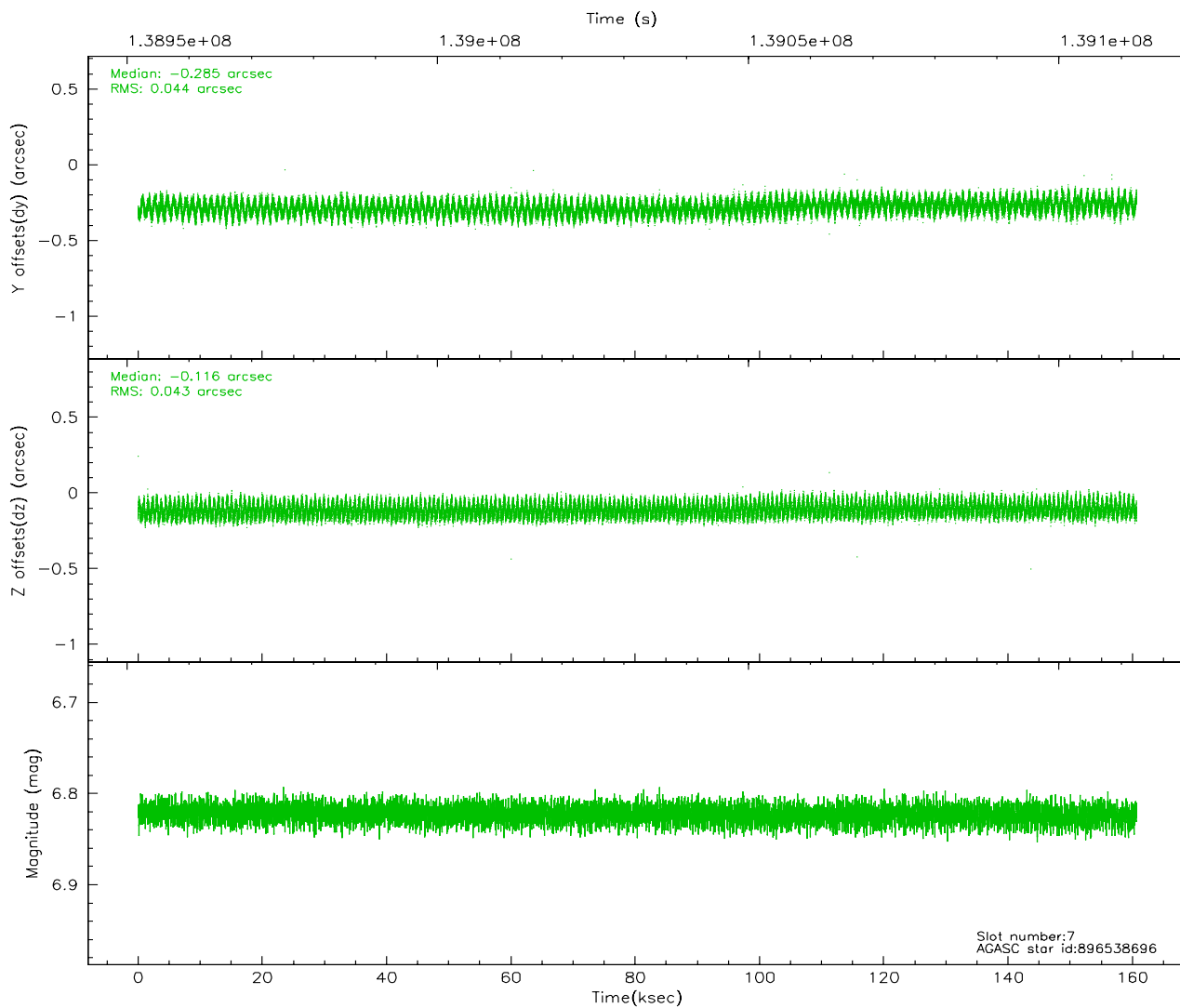
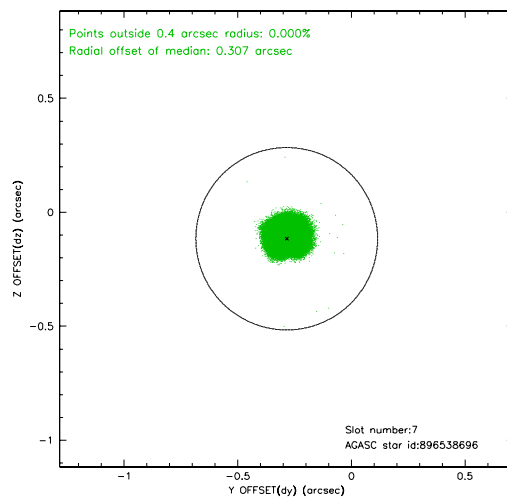
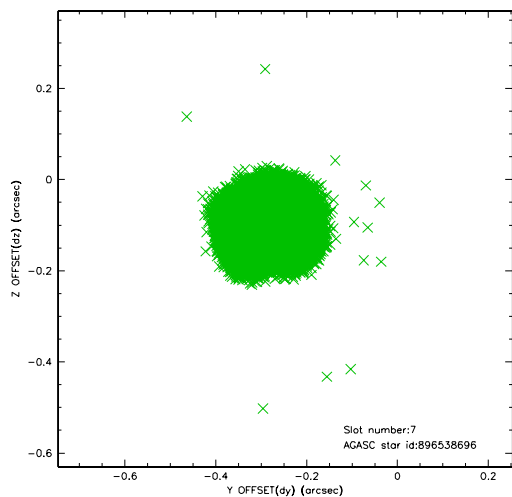
### 2.4.3 Slot 5



## 2.4.4 Slot 6

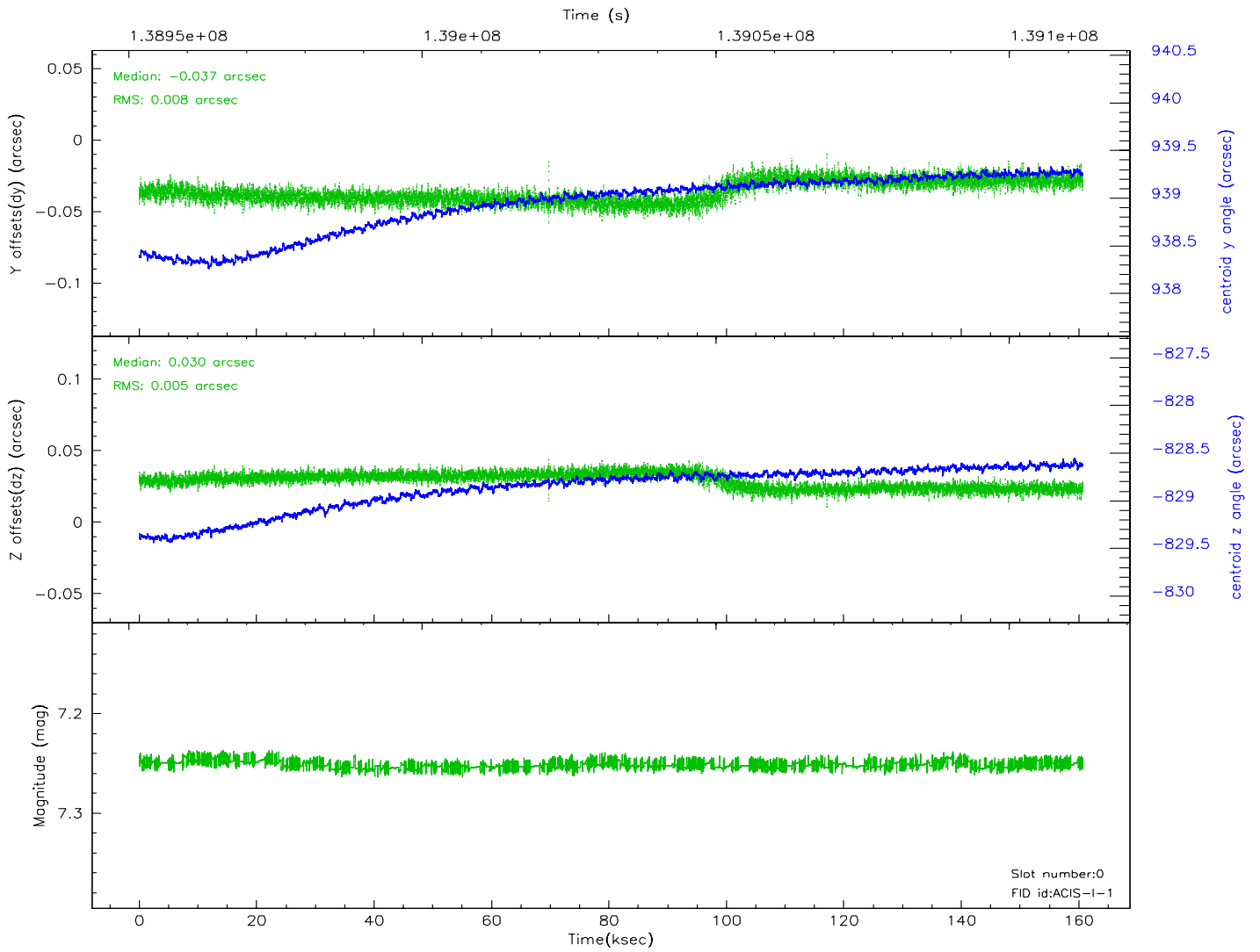
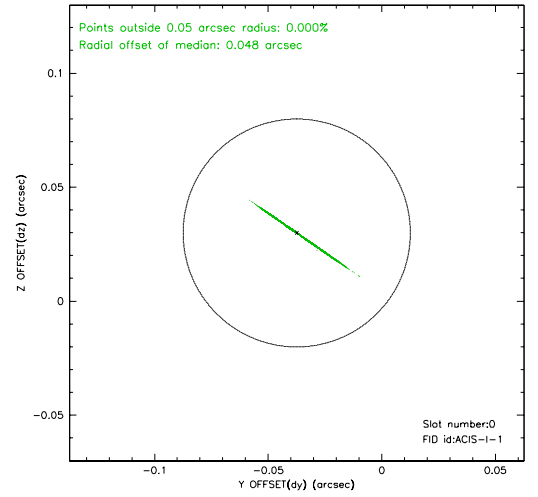
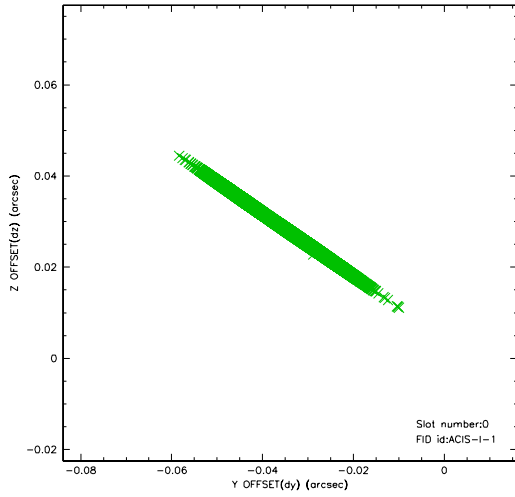


## 2.4.5 Slot 7

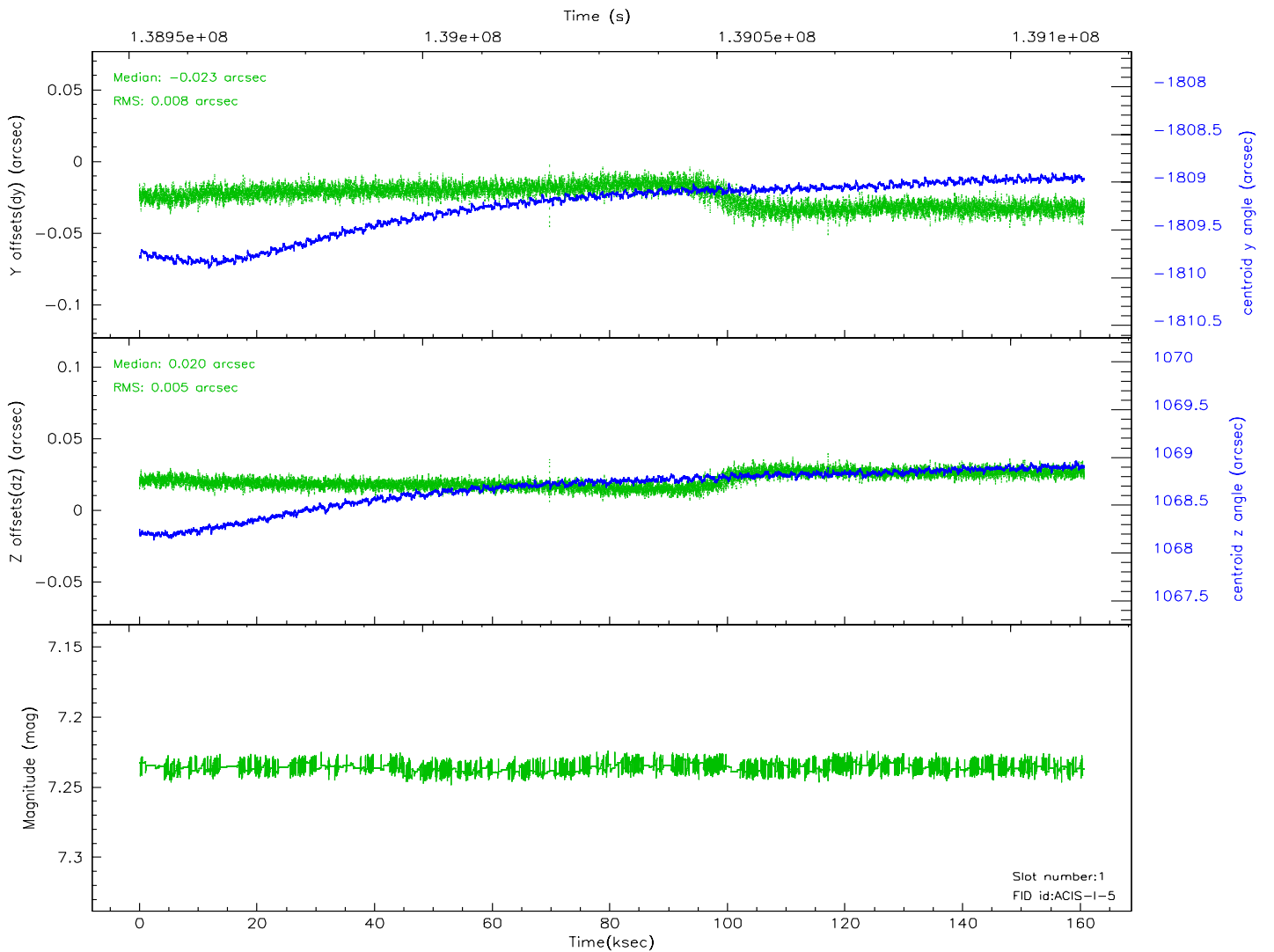
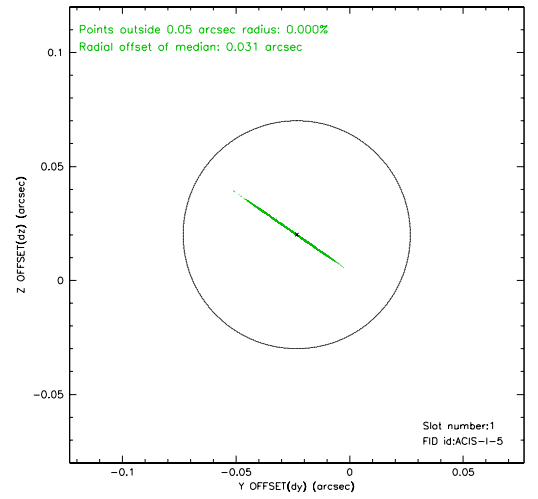
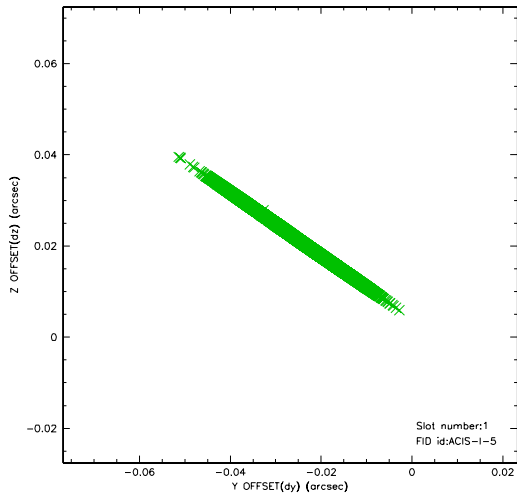


## 2.5 FID Slots

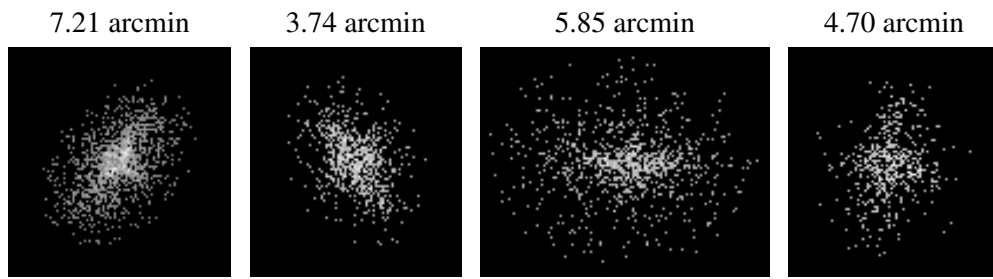
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	160.118

## A.2 Comments

Window constraint met.

The fid light in slot 2 was only tracked for 49% of the observation and is therefore not included in the aspect solution; the aspect solution is not expected to be degraded by the loss of one fid light.