

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 1659 - L2 Version 001  
Chandra X-Ray Center

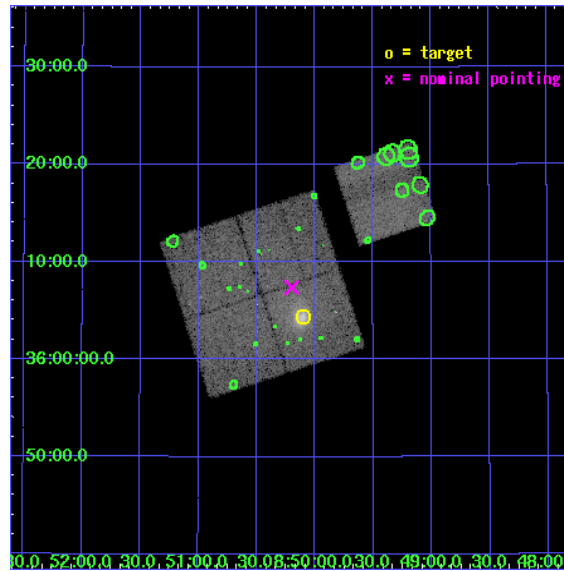
L2 Processing Date : Jun 12 2007

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# 1 Front

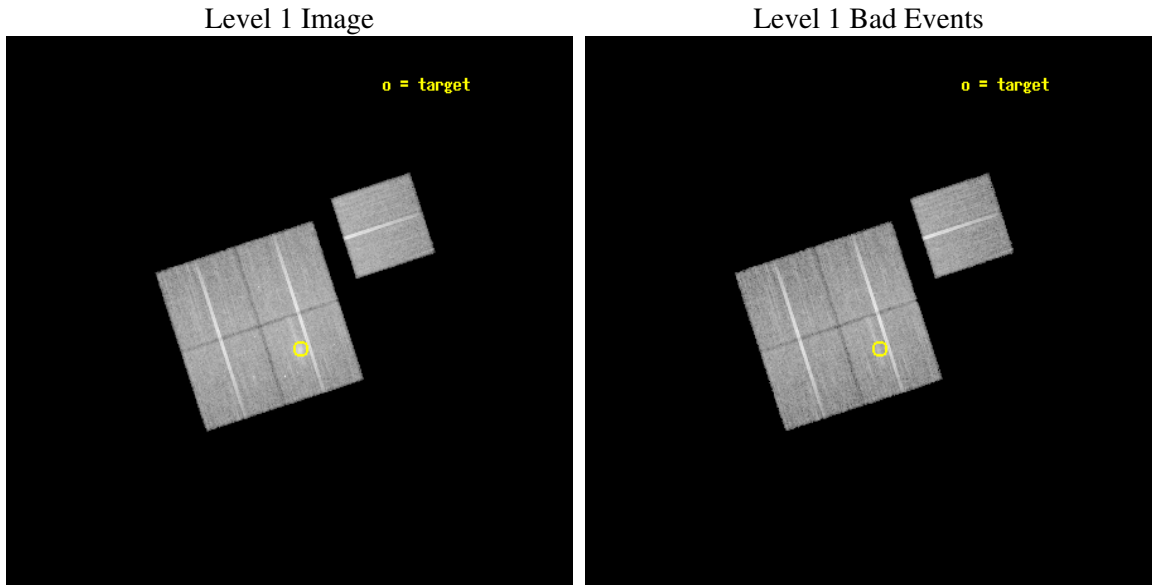
seq_num	800127
obs_id	1659
title	DETERMINATION OF H0 AND Q0, 2000 PART 1
observer	DR. LEON VANSPEYBROECK
object	ZWCL 1953
dtcycle	0
cycle	P
ra_targ	132.52625
dec_targ	36.072222
ra_nom	132.54956827141
dec_nom	36.123358815007
roll_nom	71.971782485765
revision	2
ontime	25190.559001327
livetime	24861.425802954
ontime0	25193.699951559
ontime1	25193.699951559
ontime2	25193.699951559
ontime3	25190.559001327
ontime6	25193.699951559
l2events	113237



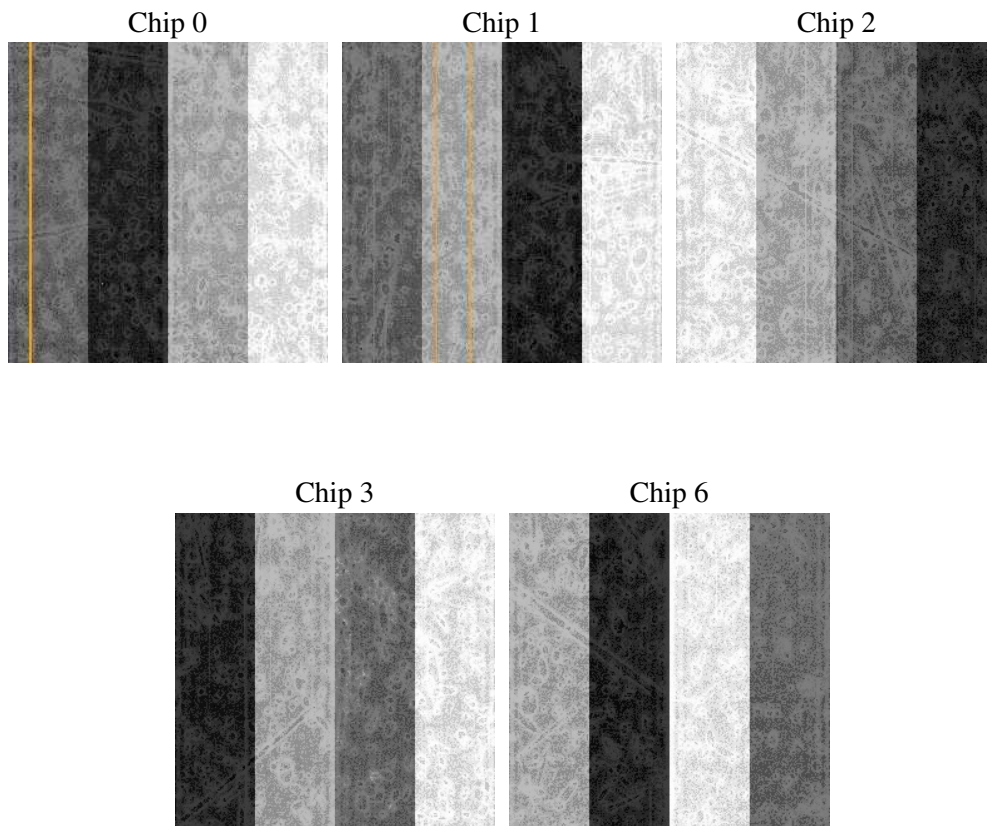
## 2 OBI

### 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	2007-06-12T15:25:20
revision	2

sched_exp_time	25000.000000
ontime	25190.559001327
ontime0	25193.699951559
ontime1	25193.699951559
ontime2	25193.699951559
ontime3	25190.559001327
ontime6	25193.699951559
l1events	845349

### 2.1.4 Events

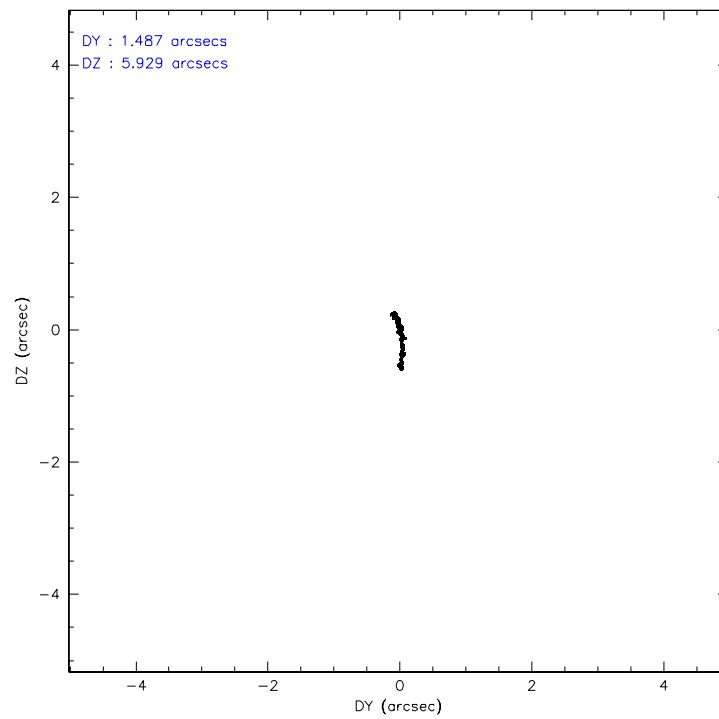
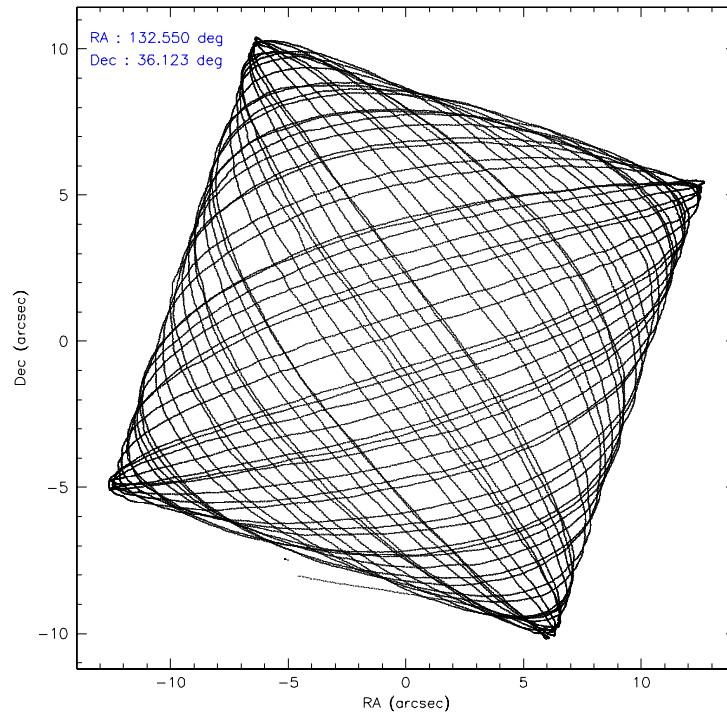
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	158586	158398	171925	183179	173261
rejected events	135699	134435	148934	151704	146086
rejected %	85%	84%	86%	82%	84%

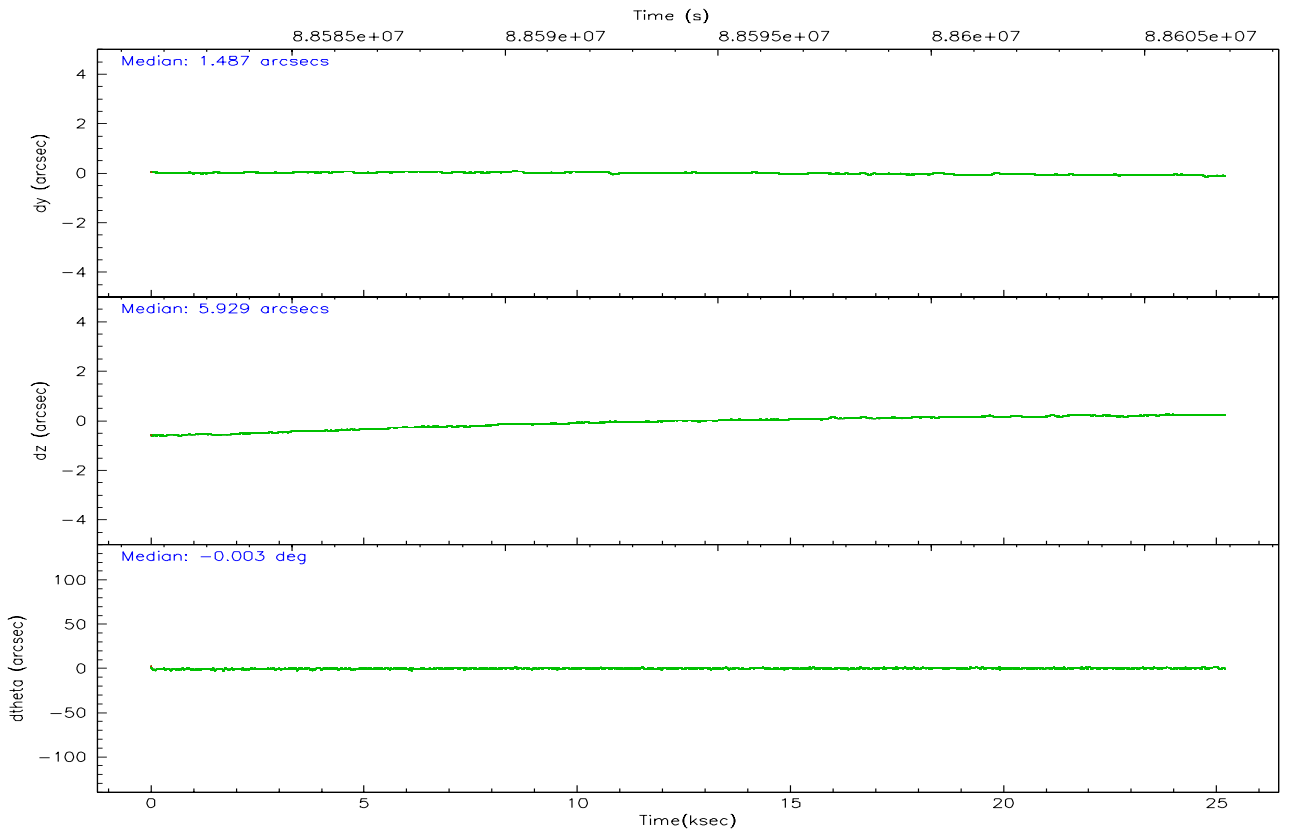
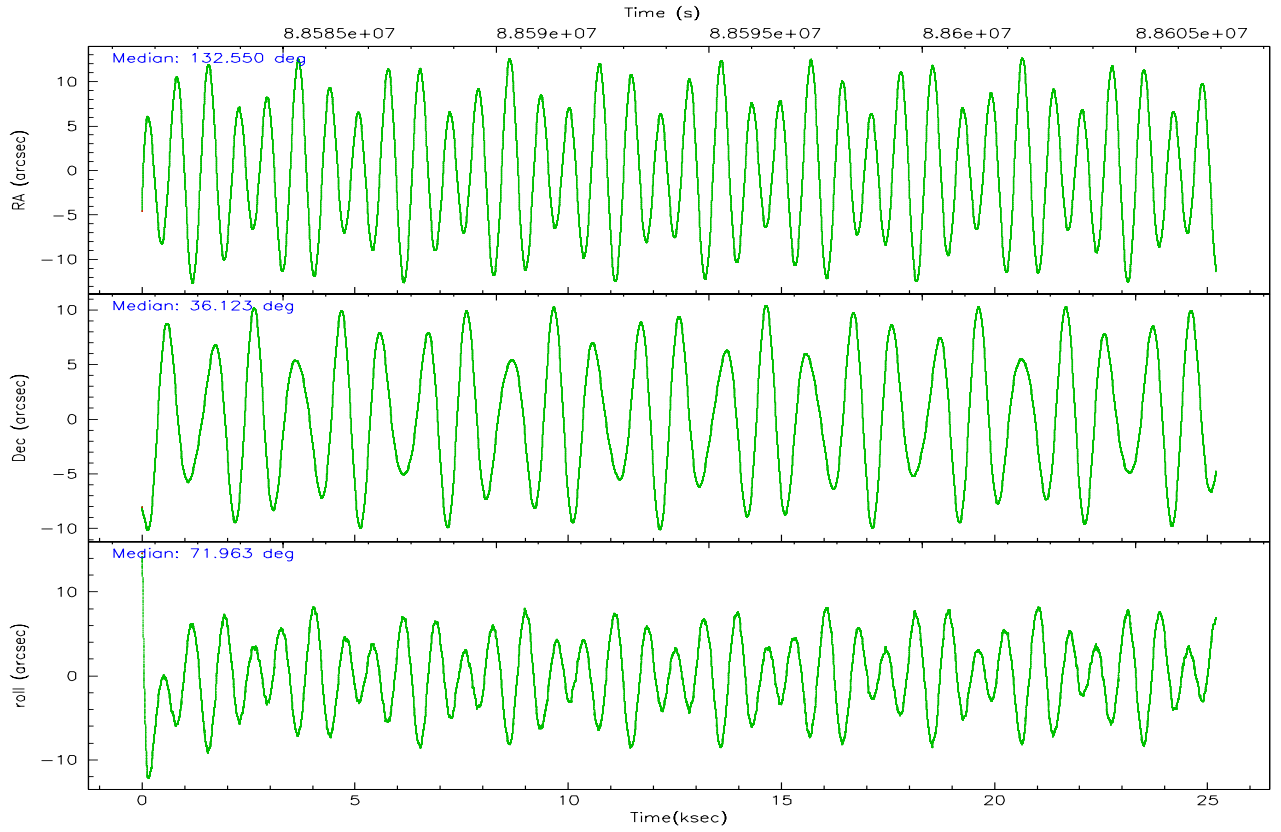
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	11383	11664	11856	18879	14808
	7%	7%	6%	10%	8%
grade 1 events	85	93	80	107	90
	0%	0%	0%	0%	0%
grade 2 events	4605	4553	4568	5175	4936
	2%	2%	2%	2%	2%
grade 3 events	1914	2131	1781	2055	1984
	1%	1%	1%	1%	1%
grade 4 events	1795	2125	1771	2022	1942
	1%	1%	1%	1%	1%
grade 5 events	5605	6149	5414	6238	6525
	3%	3%	3%	3%	3%
grade 6 events	3332	3661	3179	3547	3653
	2%	2%	1%	1%	2%
grade 7 events	129867	128022	143276	145156	139323
	81%	80%	83%	79%	80%

## 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	132.556539	132.5495682714061	Subarray requested	NONE	NONE
Pointing Dec	36.096450	36.12335881500739	Alternating exposures requested	N	N
Pointing Roll	71.758978	71.97178248576452	Primary exposure time	0.000000	3.1
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-225.840463	-225.8433433320239			
SIM translation stage offset (mm)	-7.752	-7.749109670905796			
Observation start time	88581898.184000	88580793.630885			
Observation start date	2000-10-22T06:03:54	2000-10-22T05:46:33			
Observation end time	88606898.184000	88607454.906893			
Observation end date	2000-10-22T13:00:34	2000-10-22T13:10:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect



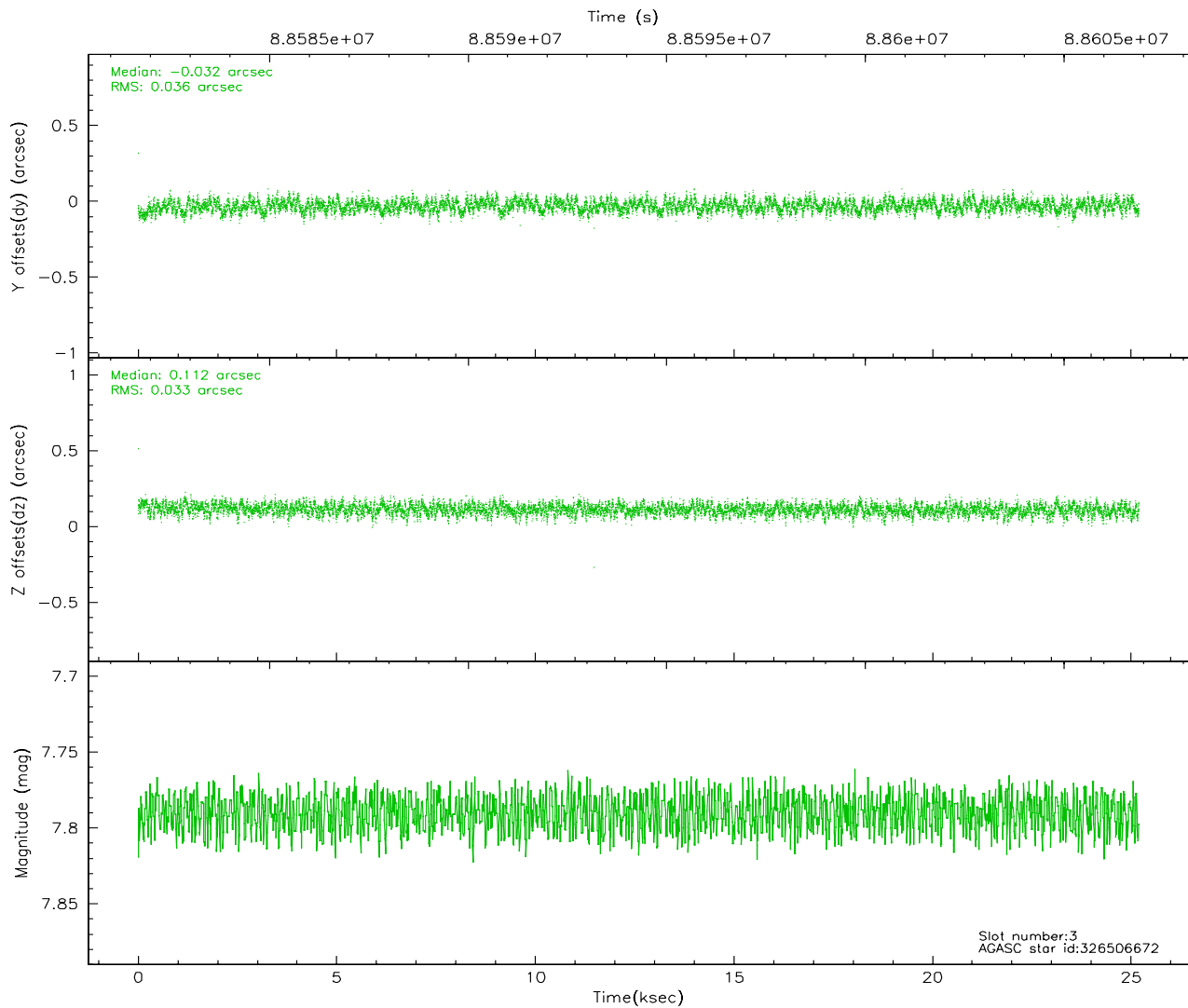
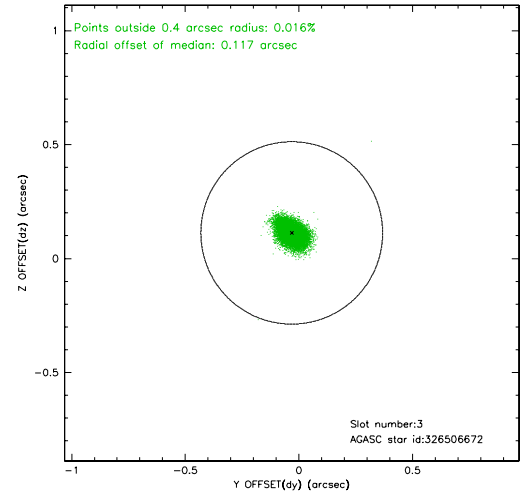
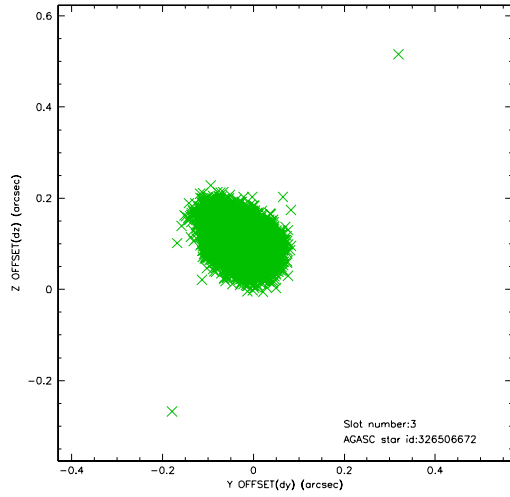


### Slot Statistics

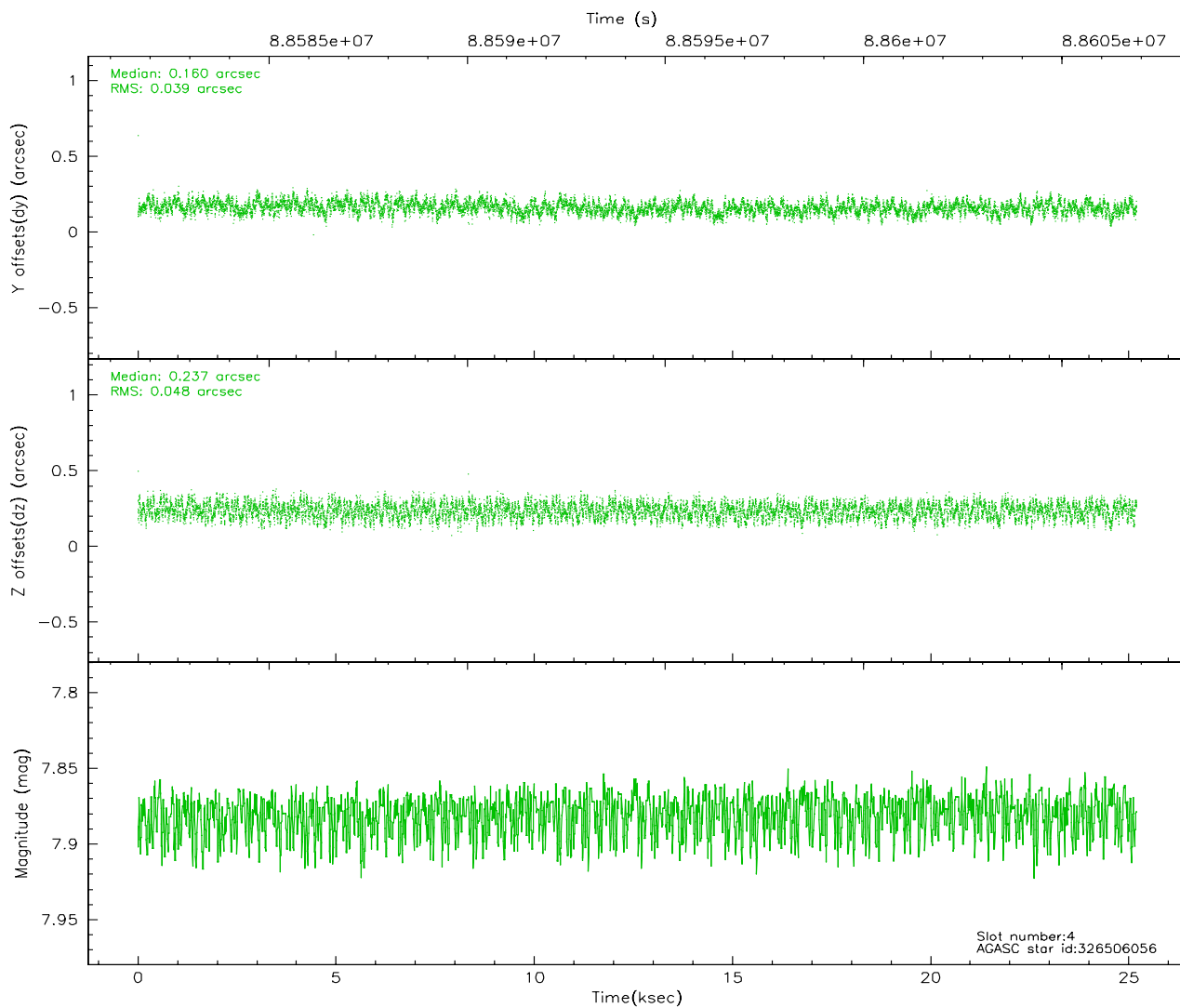
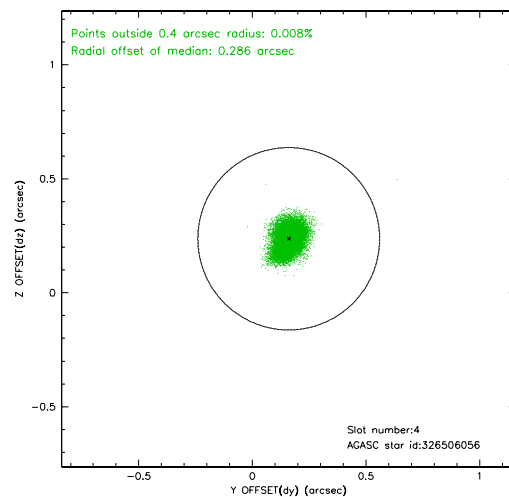
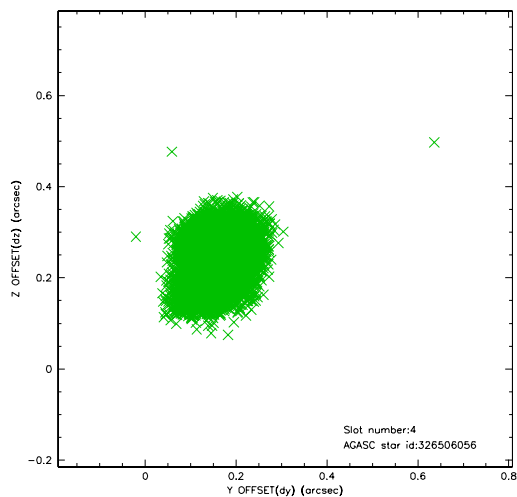
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.17	6146	-0.036	-0.031	0.010	0.018	0.000000	0.000000	-756.39	-993.67
1	FID	ACIS-I-4	7.15	6145	-0.079	0.038	0.011	0.025	0.000000	0.000000	2157.51	912.46
2	FID	ACIS-I-5	7.22	6147	0.016	0.062	0.011	0.019	0.000000	0.000000	-1809.63	909.45
3	GUIDE	326506672	7.79	12292	-0.032	0.112	0.052	0.084	133.078821	36.266205	1058.63	-1246.67
4	GUIDE	326506056	7.88	12289	0.160	0.237	0.067	0.106	133.086548	35.461076	-1681.79	-2190.53
5	GUIDE	326370448	8.14	12292	0.015	-0.441	0.078	0.119	131.848080	36.456421	595.01	2356.02
6	GUIDE	326508760	9.12	12288	-0.193	-0.097	0.078	0.125	132.387450	36.829326	2353.02	1289.54
7	GUIDE	326512576	9.58	12289	0.052	0.193	0.090	0.153	133.179356	36.155909	775.63	-1649.83

## 2.4 Star Slots

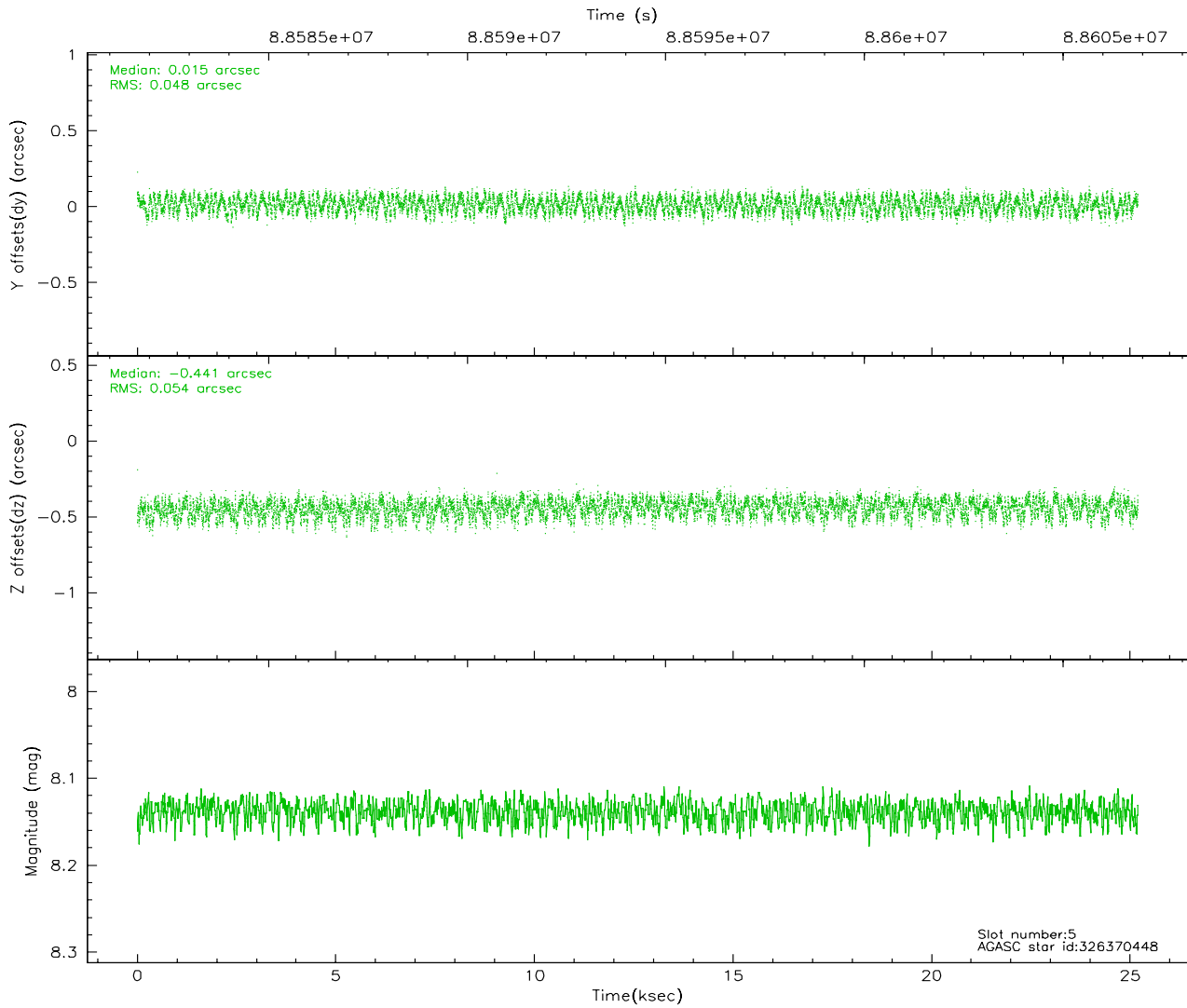
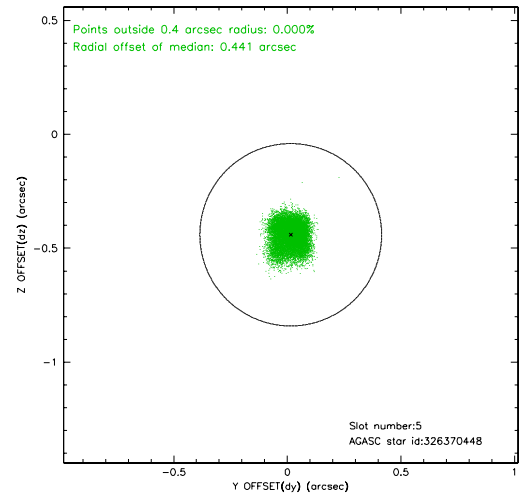
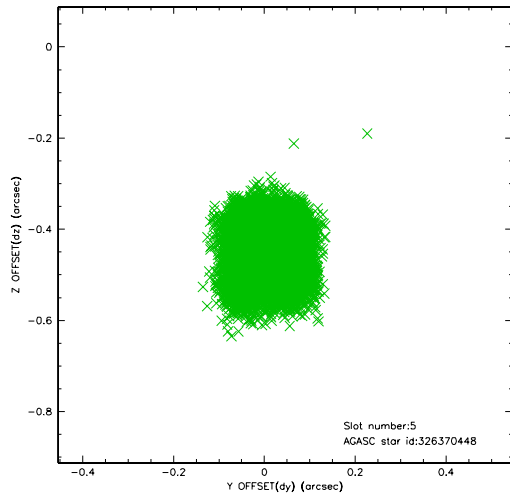
### 2.4.1 Slot 3



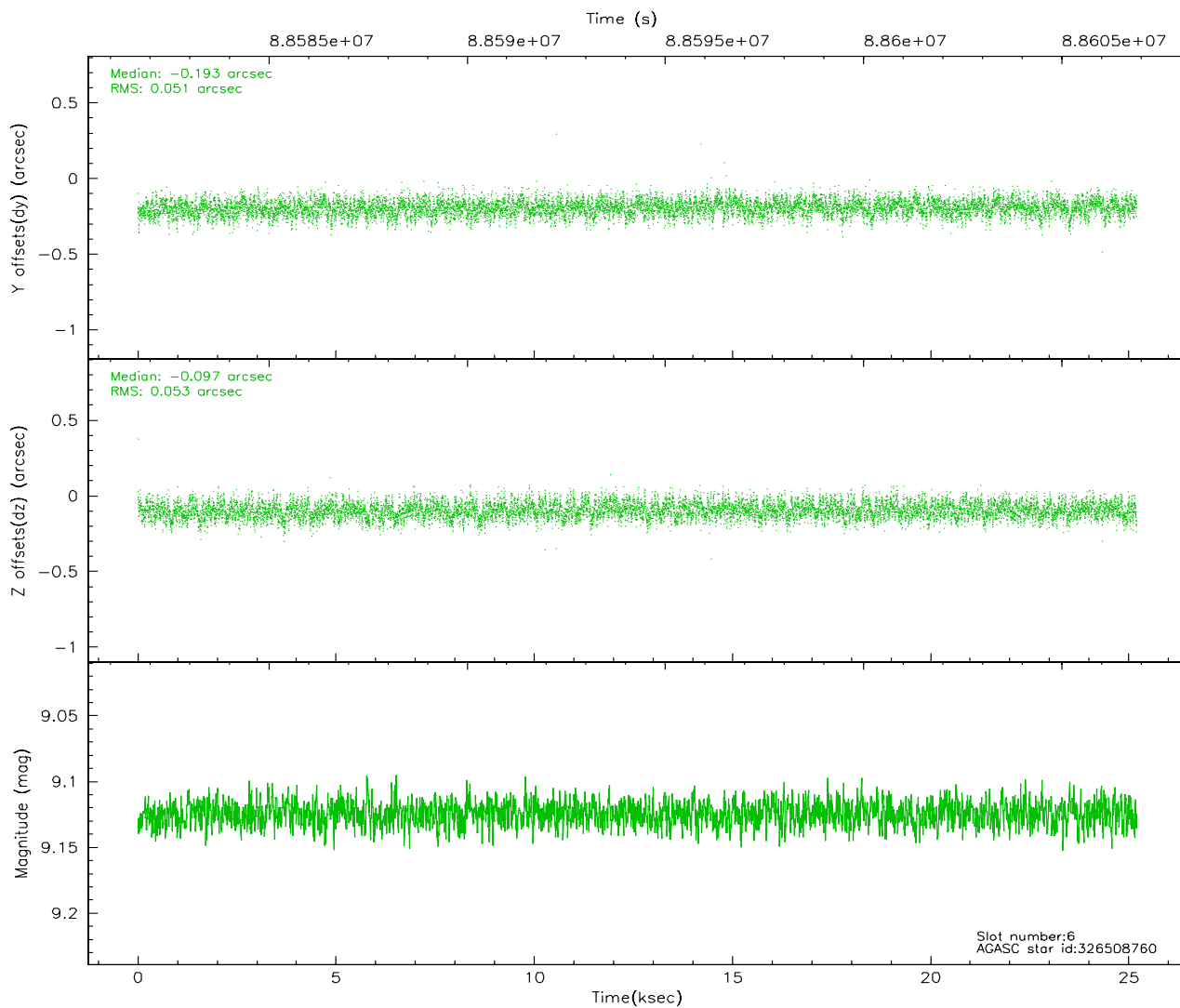
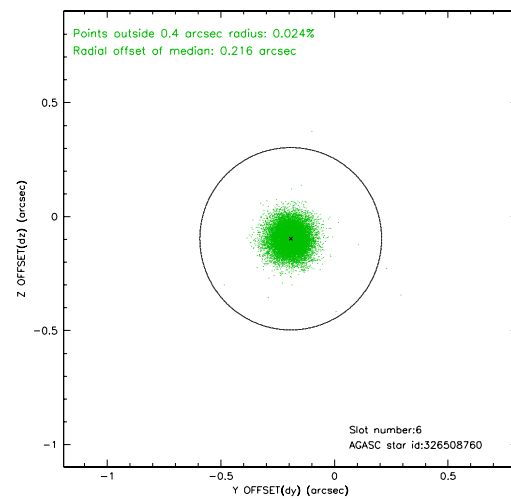
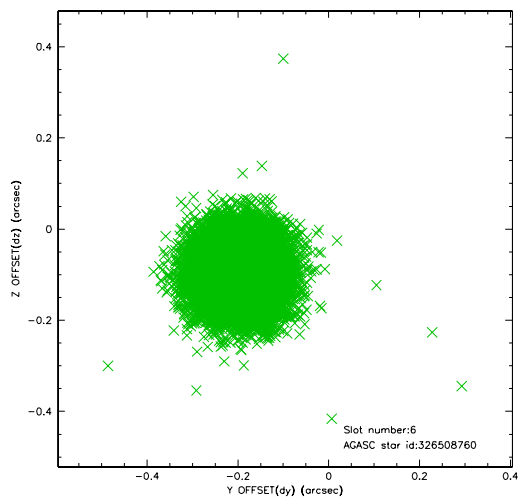
## 2.4.2 Slot 4



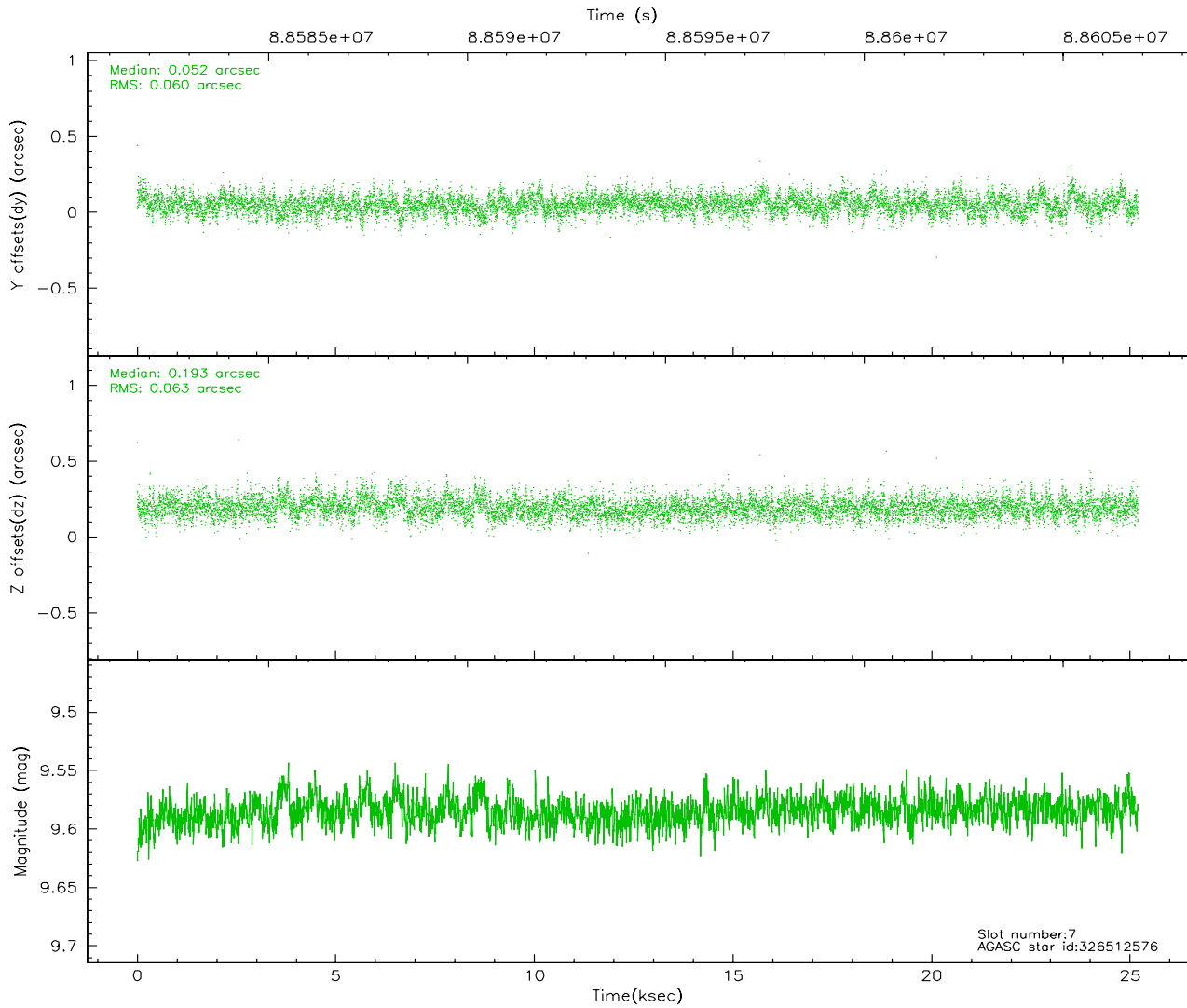
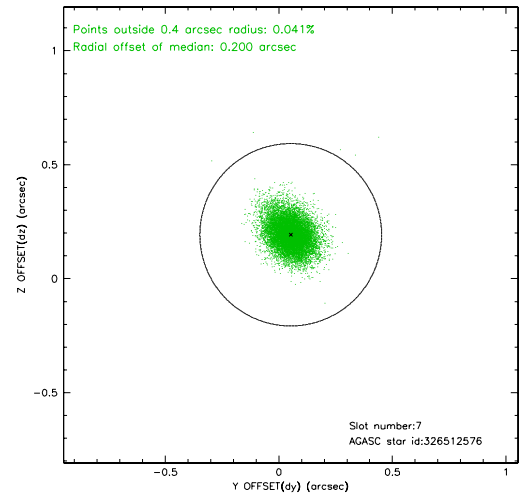
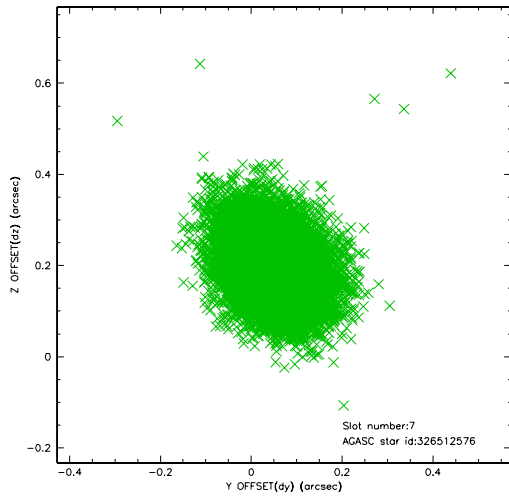
### 2.4.3 Slot 5



## 2.4.4 Slot 6

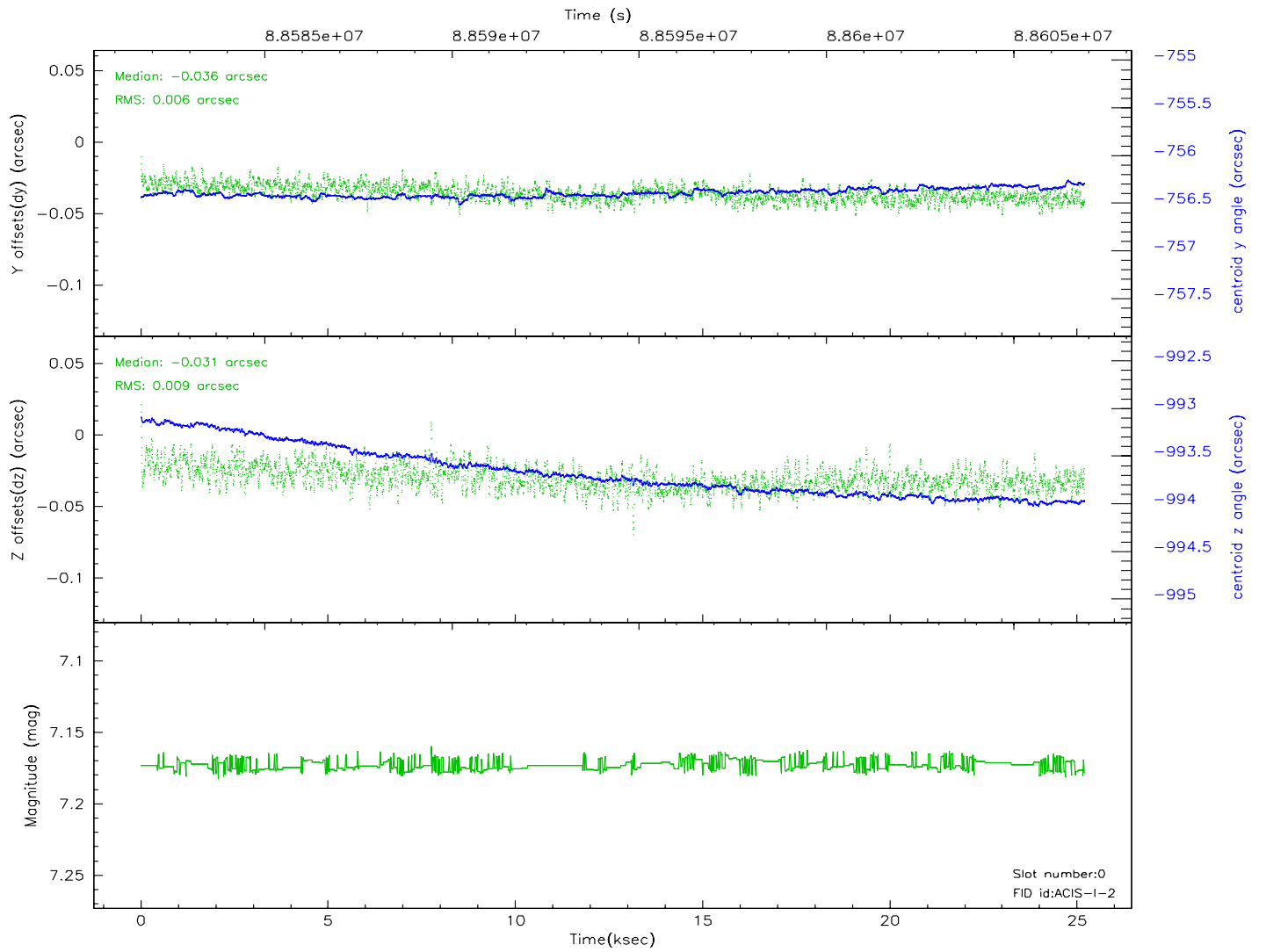
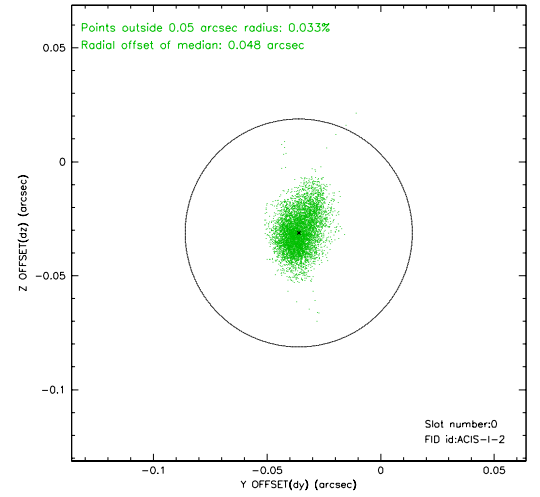
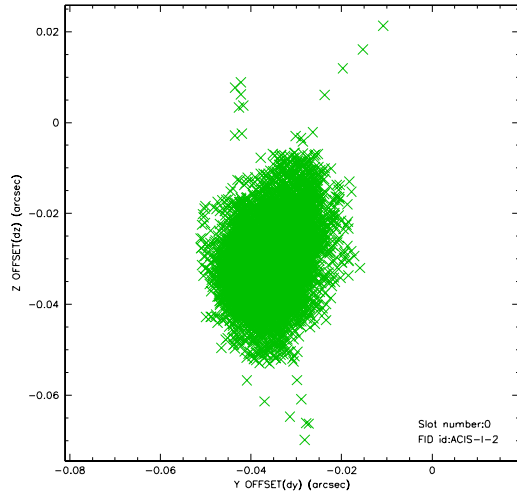


## 2.4.5 Slot 7

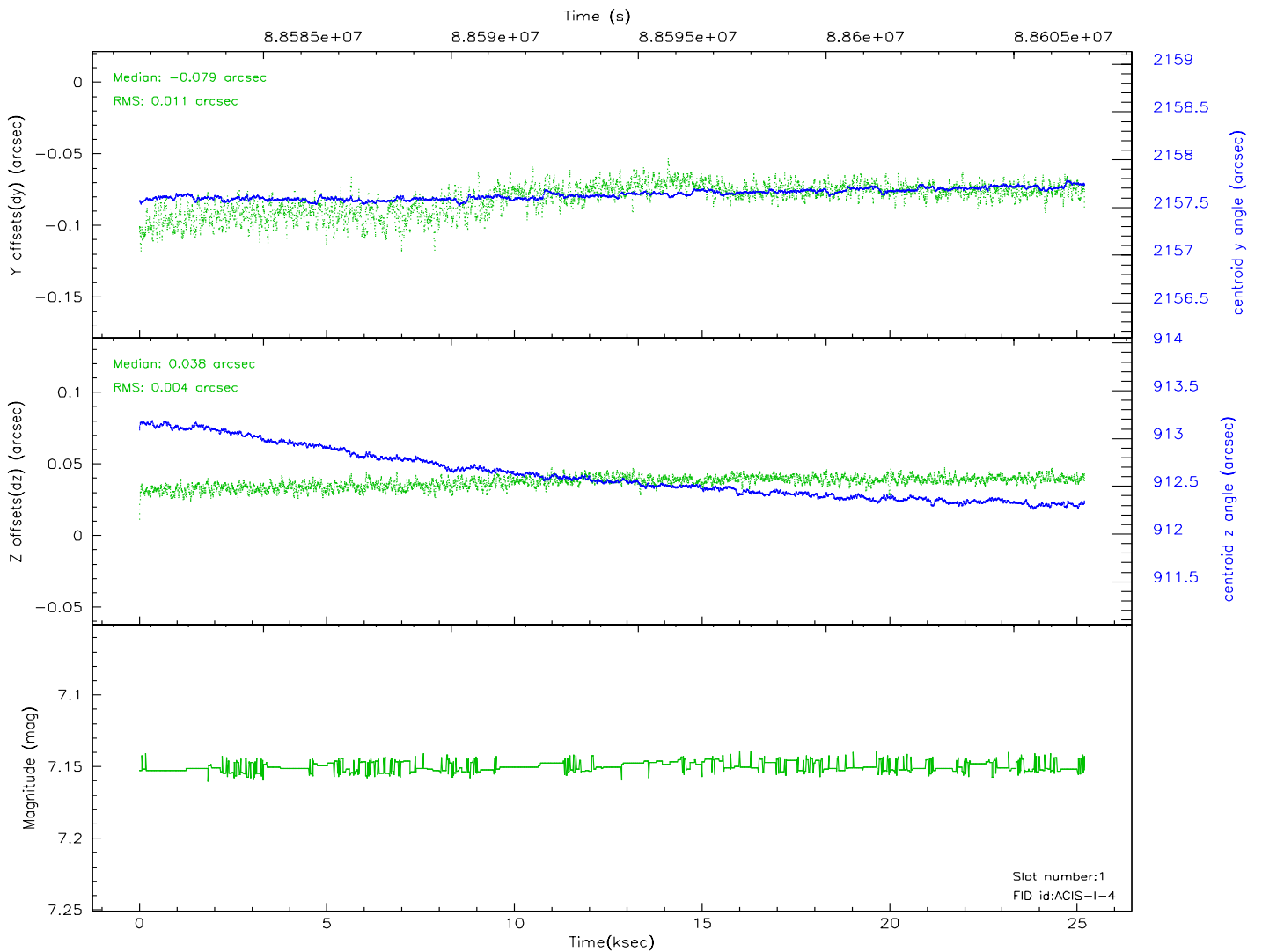
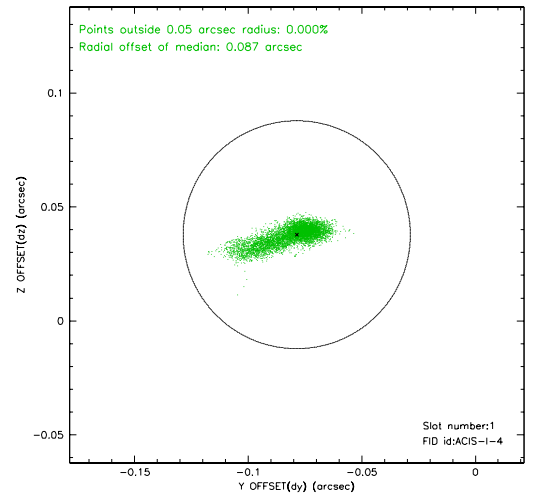
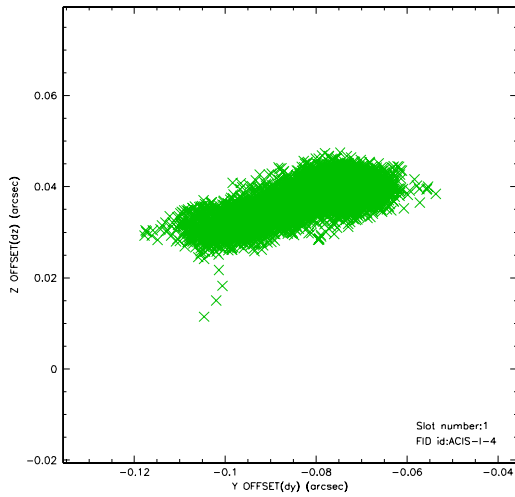


## 2.5 FID Slots

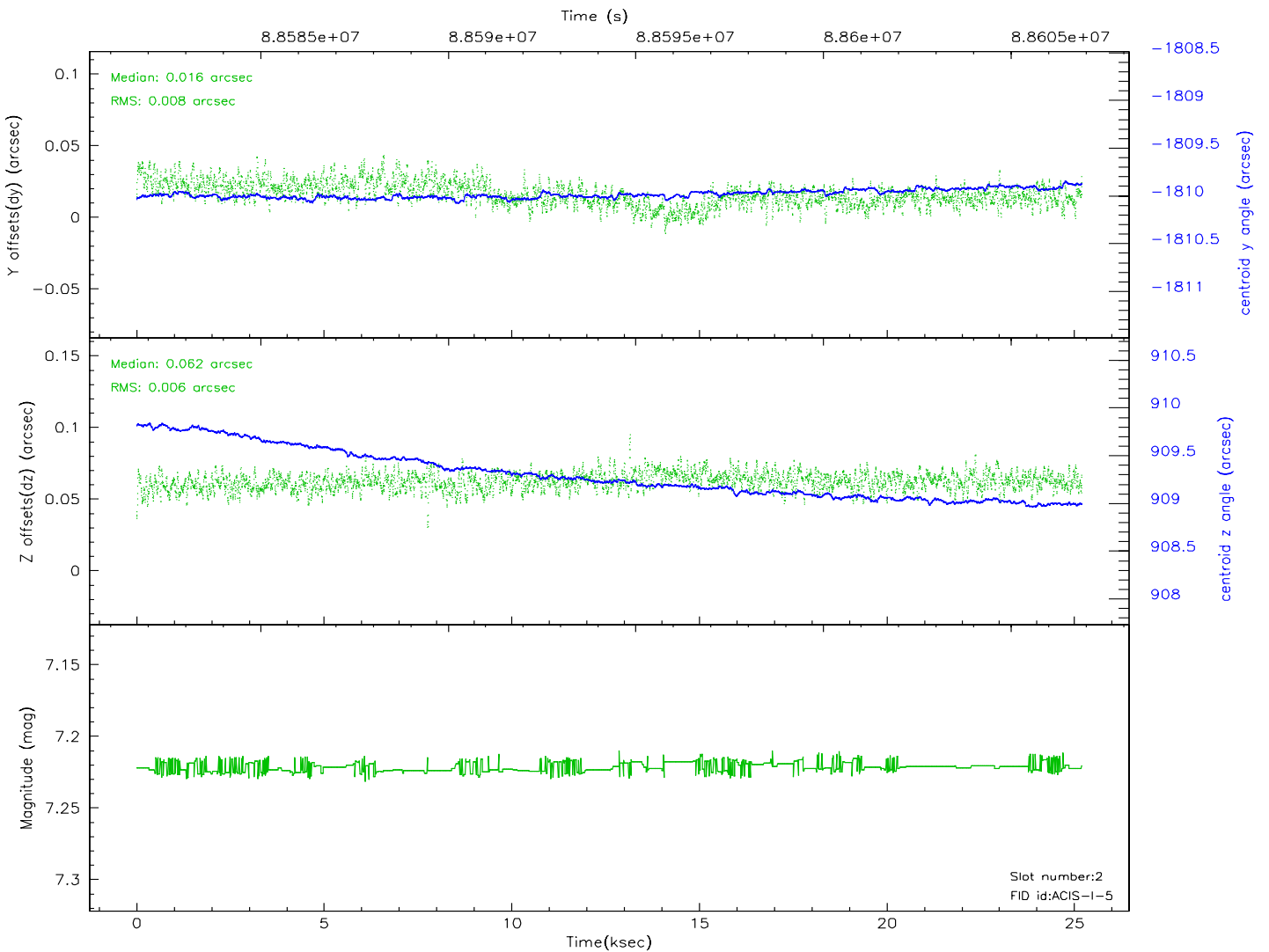
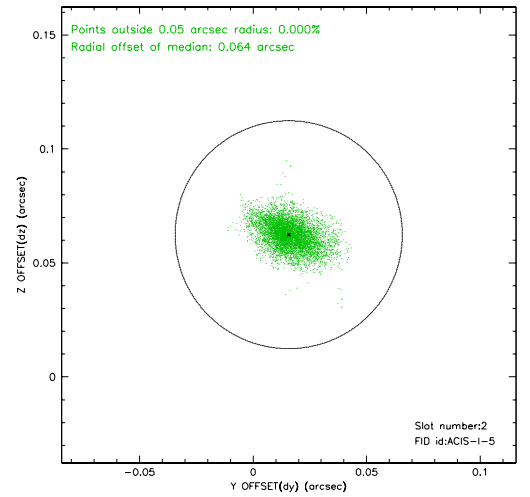
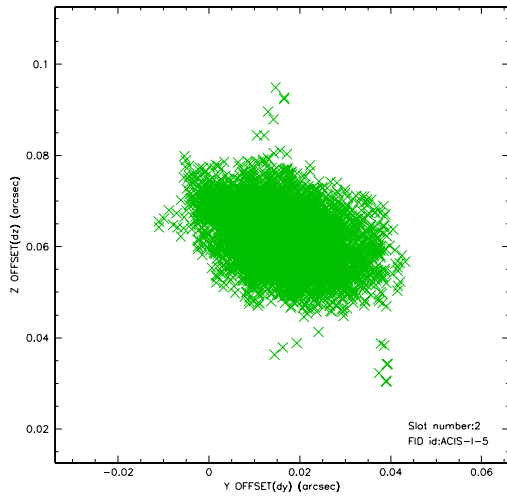
### 2.5.1 Slot 0



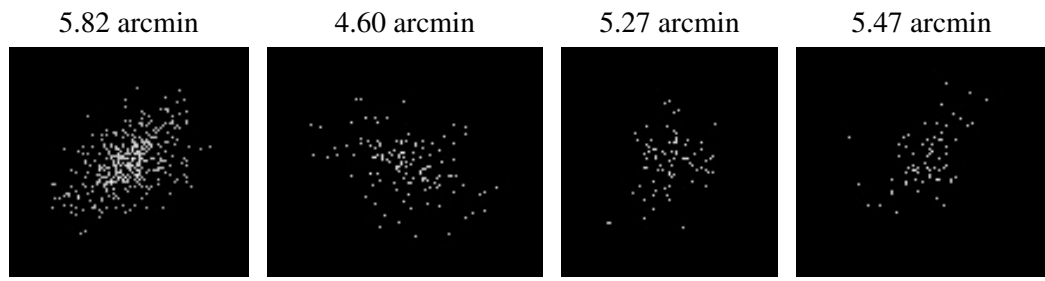
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.06.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.19

## A.2 Comments