

# V&V Reference Report

## L2 ASCDS Version : 7.6.8.1

Observation 3390 - L2 Version 001  
Chandra X-Ray Center

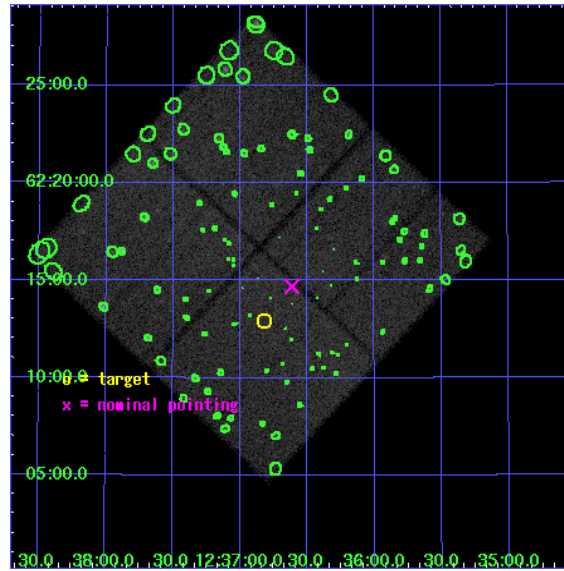
L2 Processing Date : Sep 3 2006

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# 1 Front

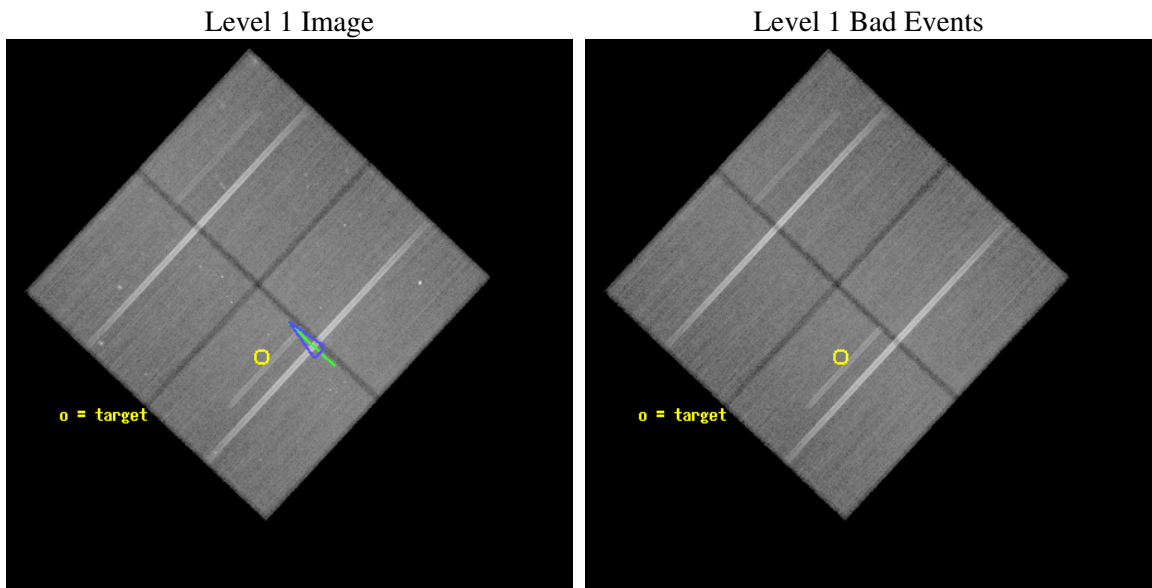
seq_num	900133
obs_id	3390
title	THE CHANDRA SURVEY OF THE HUBBLE DEEP FIELD NORTH AREA: A PUBLIC RESOURCE FOR THE PRESENT AND FUTURE OF X-RAY ASTRONOMY
observer	Prof. William Brandt
object	HDF-N
dtcycle	0
cycle	P
ra_targ	189.205833
dec_targ	62.216111
ra_nom	189.15368920755
dec_nom	62.244929197376
roll_nom	133.13132769496
revision	2
ontime	166531.67189795
livetime	164355.81300577
ontime0	166528.53098758
ontime1	166528.53093766
ontime2	166515.96704663
ontime3	166531.67189795
l2events	275962



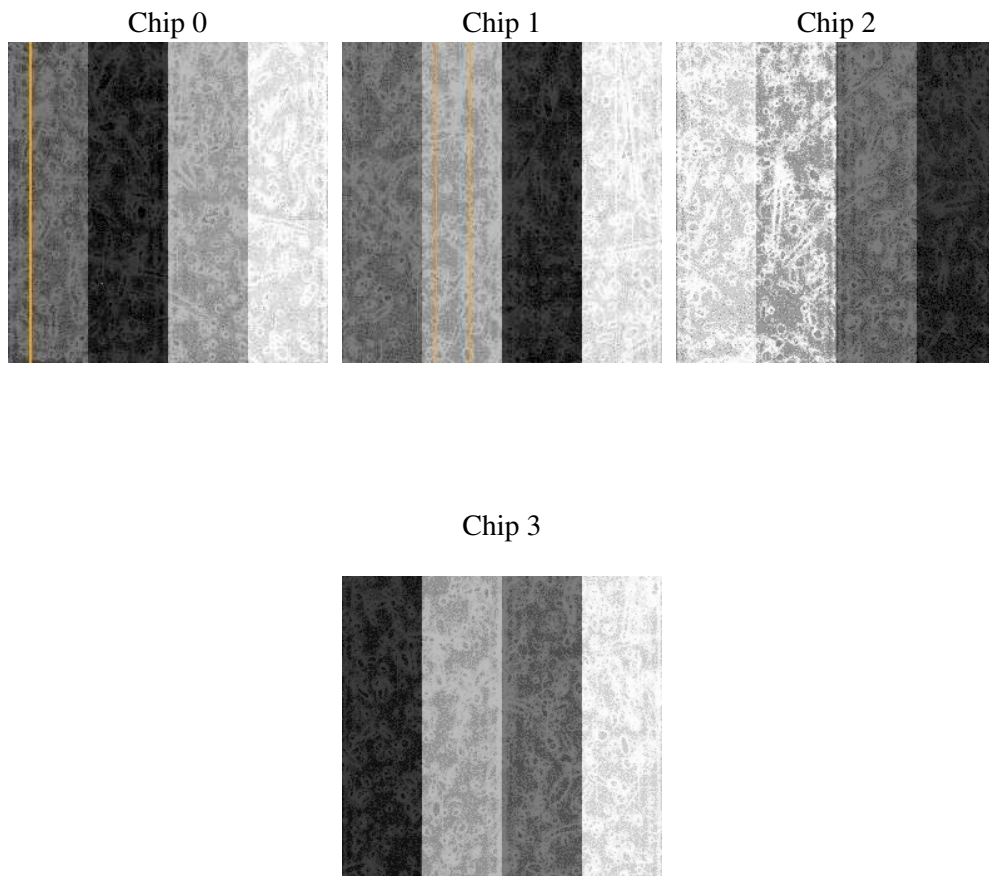
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8.1
caldbver	3.2.3
date	2006-09-03T20:03:03
revision	2

sched_exp_time	166433.116000
ontime	166853.18898579
ontime0	166850.04807542
ontime1	166850.0480255
ontime2	166837.48413448
ontime3	166853.18898579
l1events	3471692

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	821775	822093	932970	894854
rejected events	737163	731961	847123	815971
rejected %	89%	89%	90%	91%

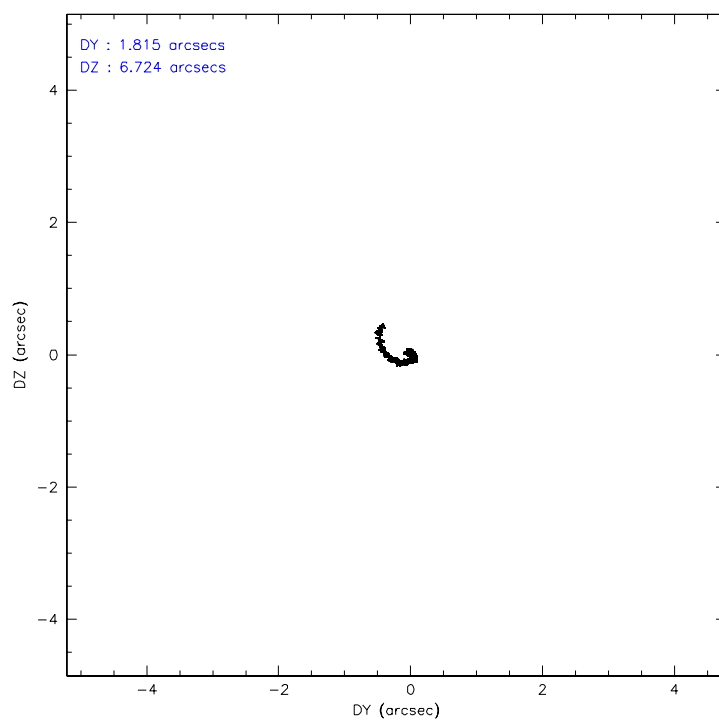
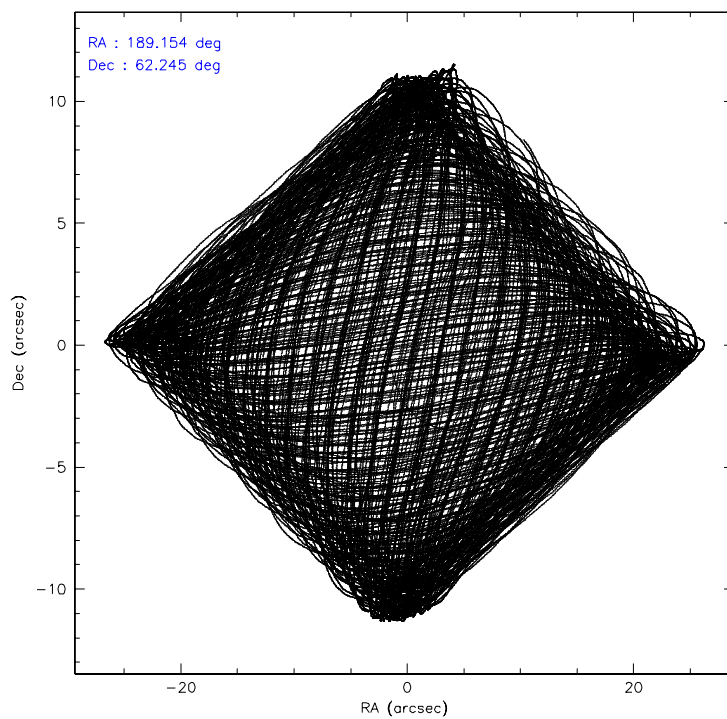
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	30619	32478	33773	29137
	3%	3%	3%	3%
grade 1 events	365	417	378	329
	0%	0%	0%	0%
grade 2 events	19455	18529	18874	16658
	2%	2%	2%	1%
grade 3 events	10074	11179	9178	9336
	1%	1%	0%	1%
grade 4 events	9245	10807	9309	8994
	1%	1%	0%	1%
grade 5 events	23770	26388	22143	27235
	2%	3%	2%	3%
grade 6 events	15405	17329	14926	14959
	1%	2%	1%	1%
grade 7 events	712842	704966	824389	788206
	86%	85%	88%	88%

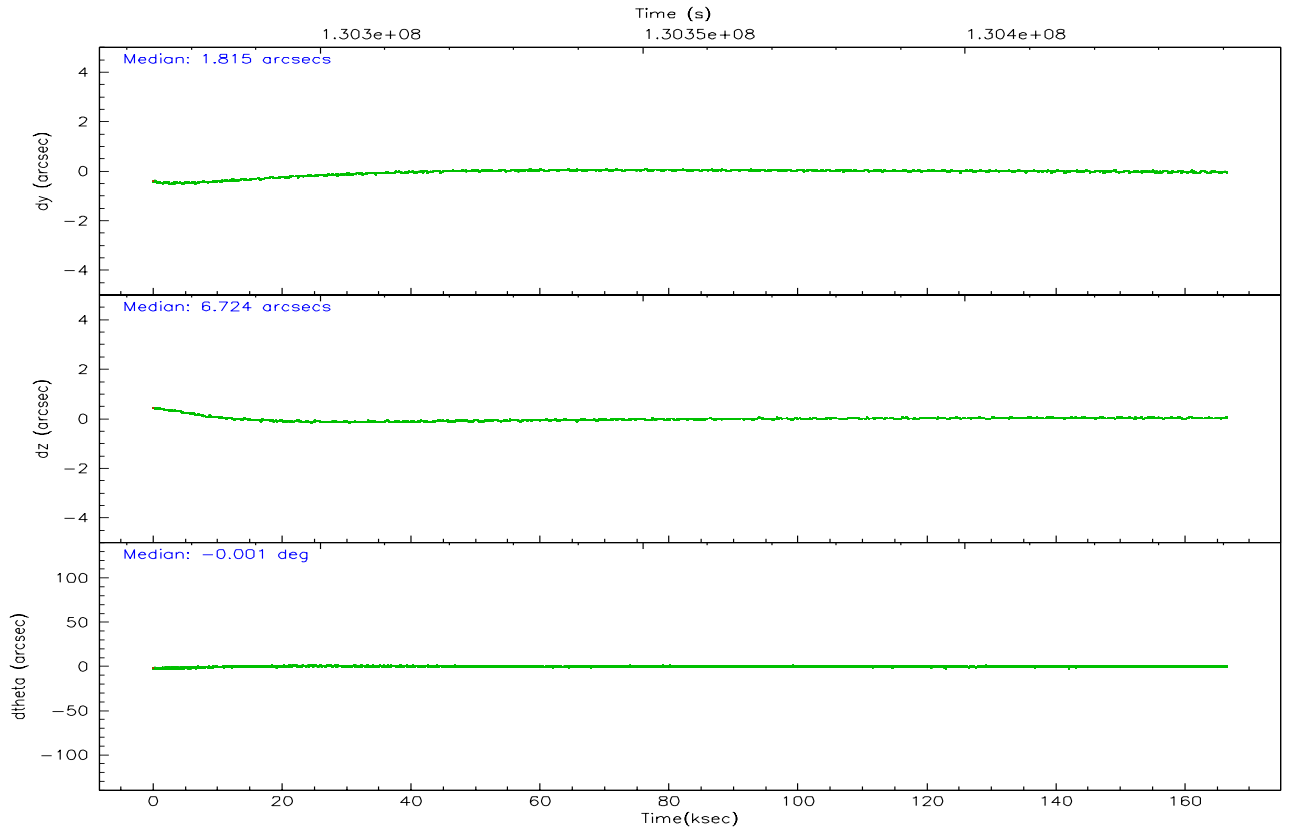
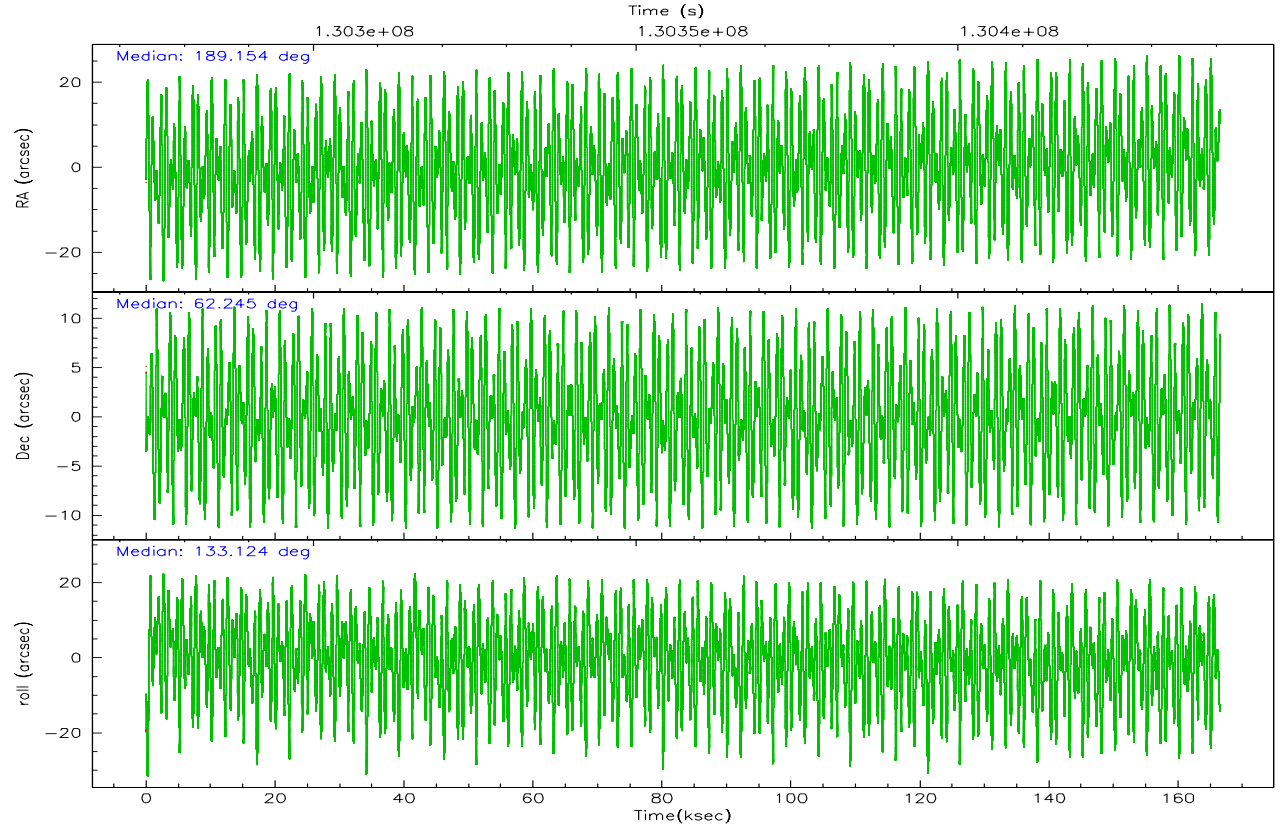


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-0123	ACIS-0123	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	189.210025	189.1536892075519	Alternating exposures requested	N	N
Pointing Dec	62.237031	62.24492919737617	Primary exposure time	0.000000	3.1
Pointing Roll	132.872786	133.1313276949594			
Roll angle	134.000000	134.000000			
Roll tolerance	10.000000	10.000000			
Roll constraint allows 180D rotation	N	N			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-227.712463	-227.7139939163845			
SIM translation stage offset (mm)	-5.88	-5.878459086545149			
Observation start time	130274193.184000	130273136.12466			
Observation start date	2002-02-16T19:15:29	2002-02-16T18:58:56			
Observation end time	130440626.184000	130440940.41893			
Observation end date	2002-02-18T17:29:22	2002-02-18T17:35:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect



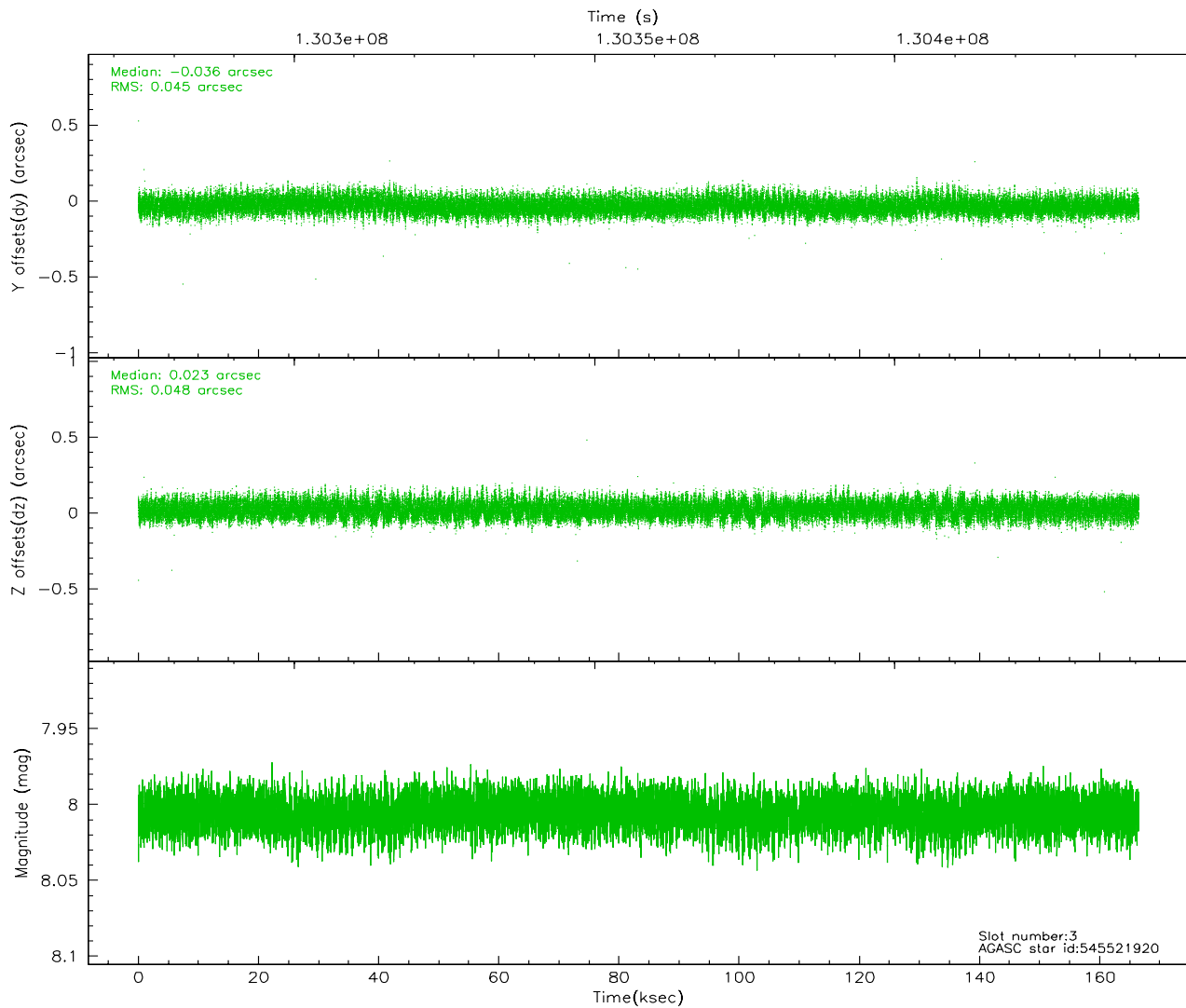
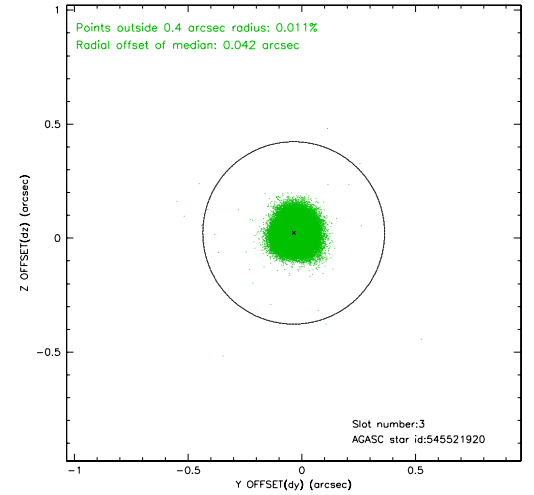
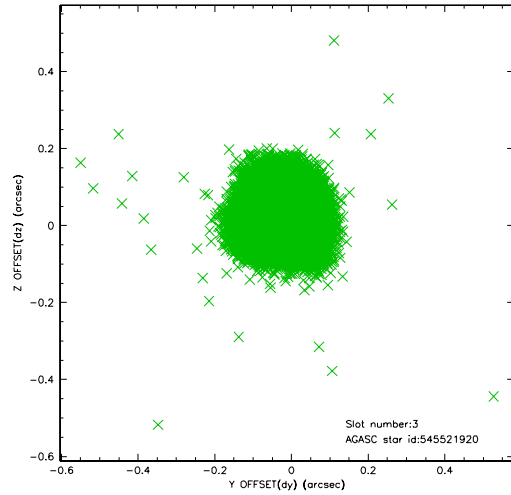


### Slot Statistics

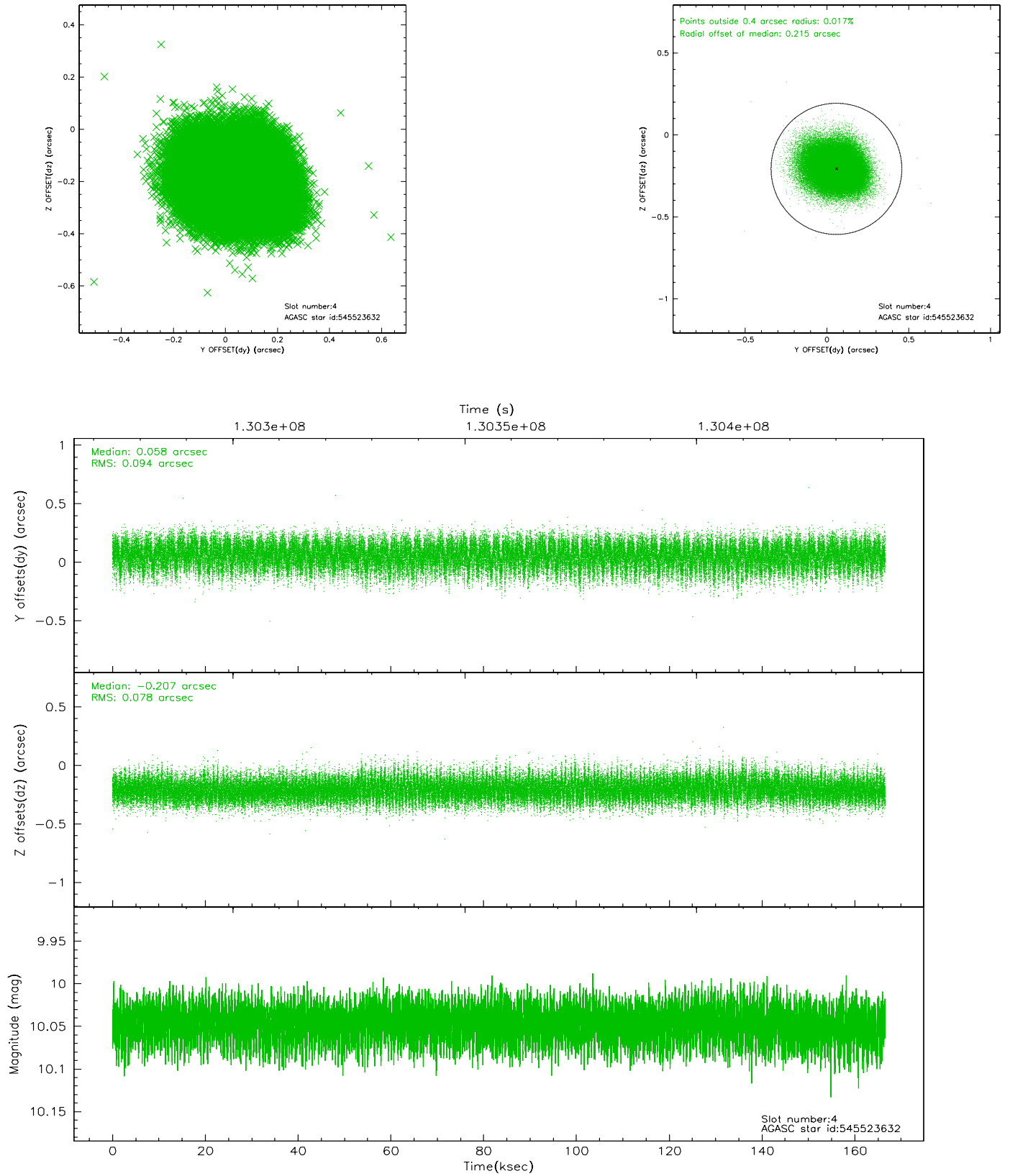
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	40603	0.024	0.037	0.006	0.011	0.000000	0.000000	937.96	-950.73
1	FID	ACIS-I-5	7.23	40593	-0.092	0.072	0.008	0.026	0.000000	0.000000	-1810.30	946.88
2	FID	ACIS-I-6	7.25	40606	-0.023	-0.038	0.009	0.026	0.000000	0.000000	403.62	1591.12
3	GUIDE	545521920	8.01	81074	-0.036	0.023	0.070	0.111	190.203465	62.042567	-1644.12	-761.62
4	GUIDE	545523632	10.05	81020	0.058	-0.207	0.130	0.213	188.952319	61.550910	-1508.85	2003.30
5	GUIDE	544605560	10.27	81127	0.044	0.052	0.137	0.226	187.386670	62.313812	2308.83	2017.74
6	GUIDE	545915360	9.30	81185	-0.103	0.120	0.101	0.160	190.127769	62.766153	375.62	-2411.40
7	GUIDE	545916224	9.60	80502	0.040	0.011	0.101	0.176	188.817359	62.651242	1536.38	-540.01

## 2.4 Star Slots

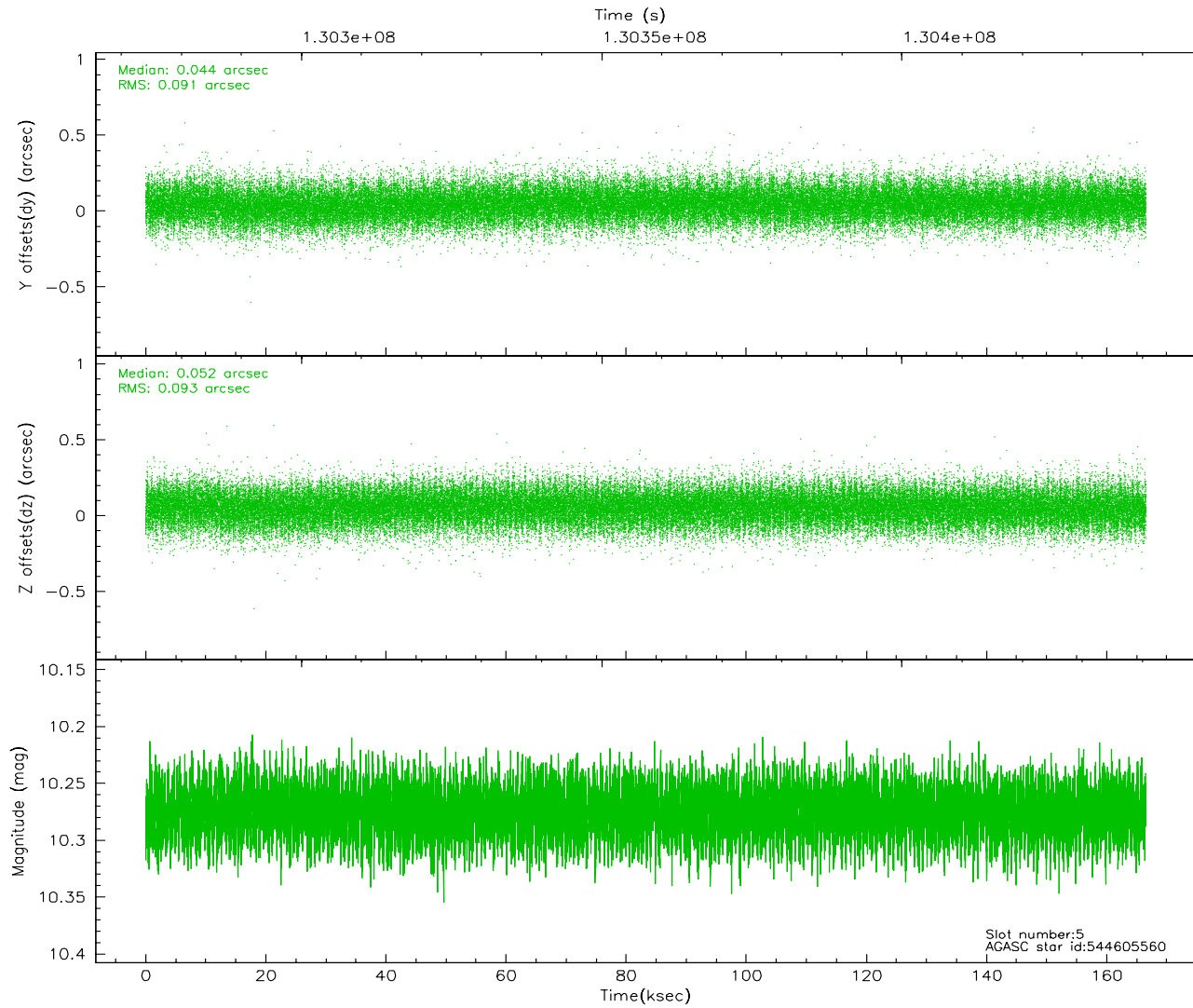
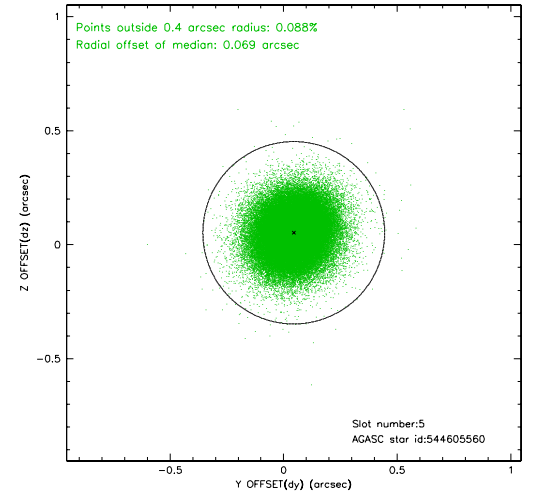
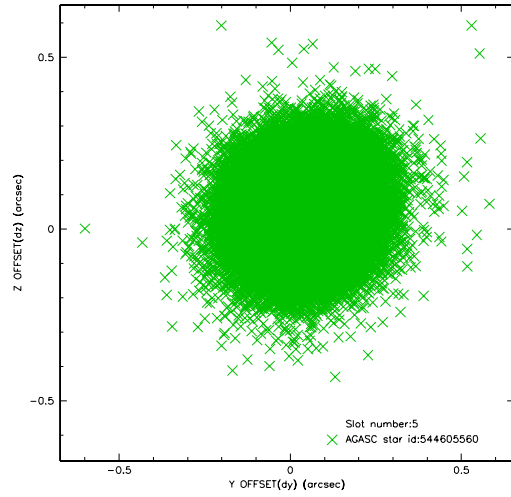
### 2.4.1 Slot 3



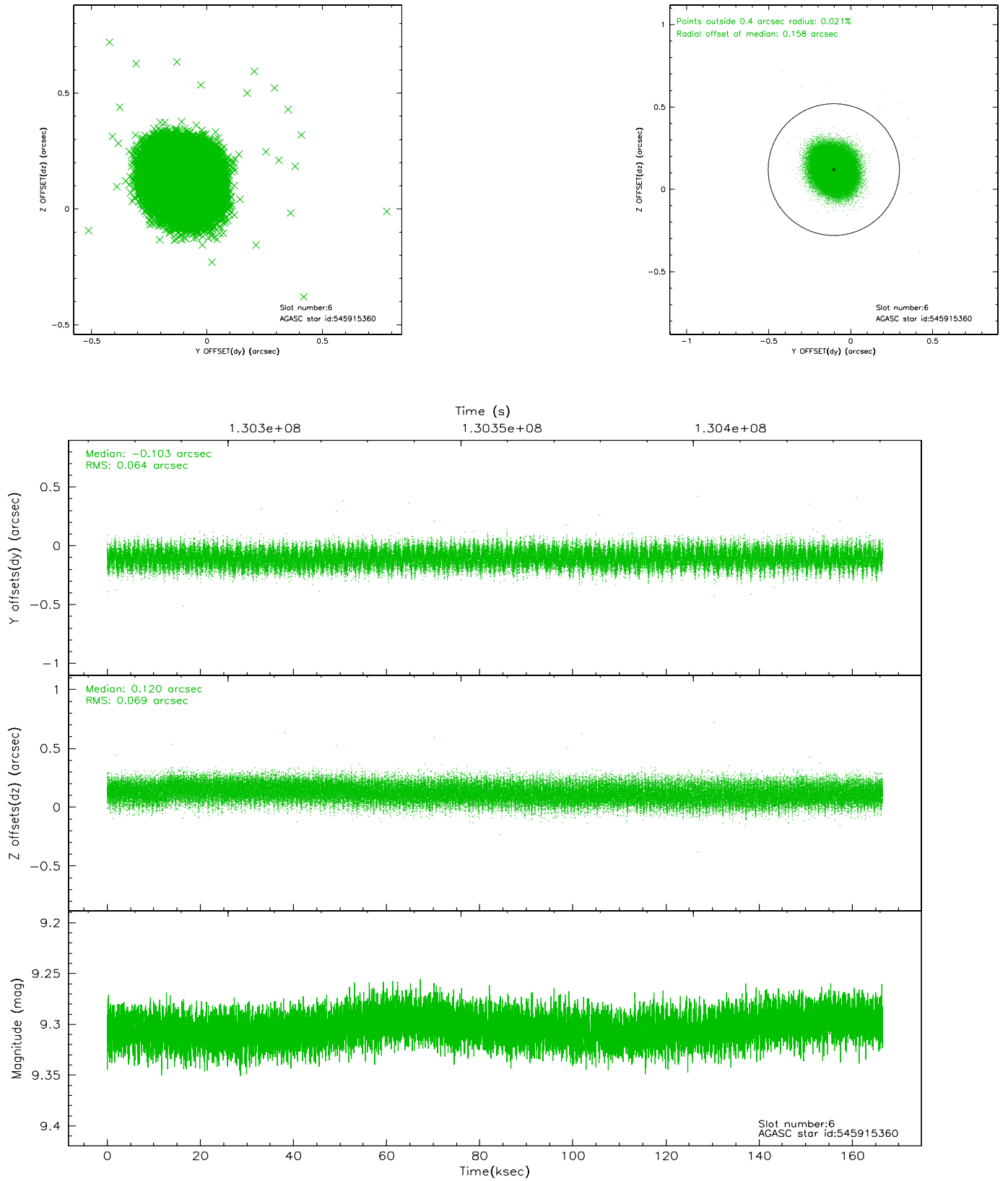
## 2.4.2 Slot 4



### 2.4.3 Slot 5

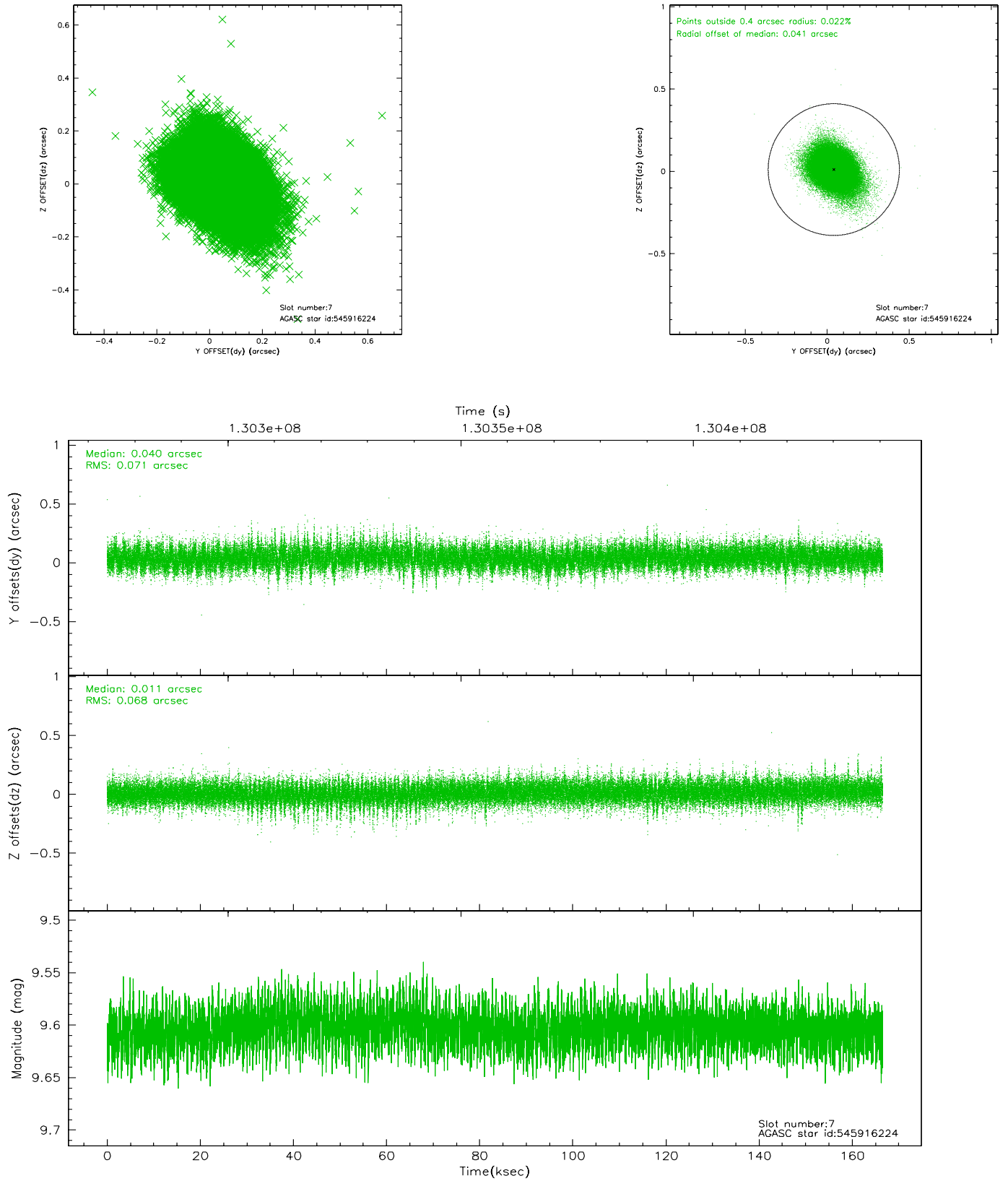


## 2.4.4 Slot 6



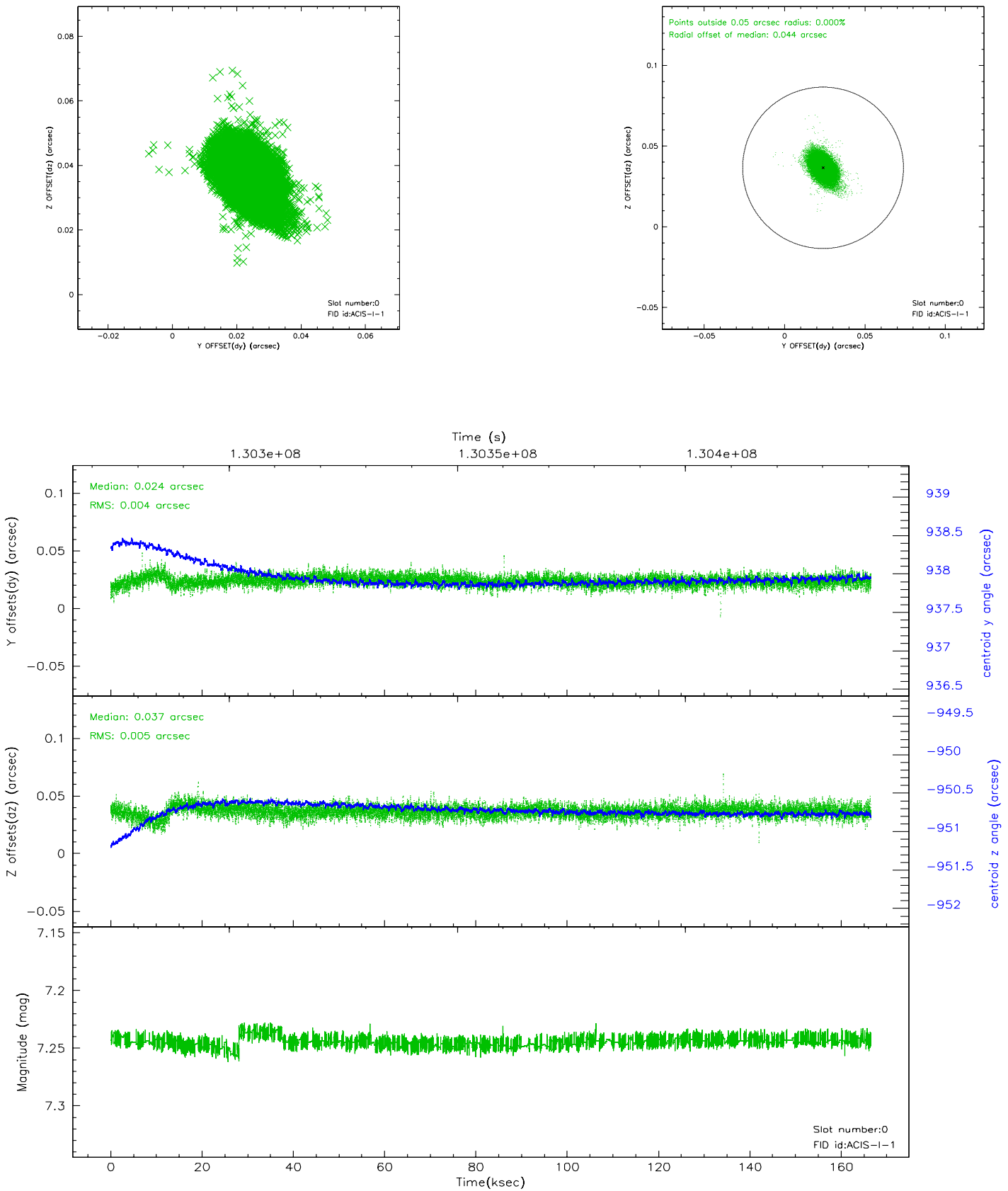


## 2.4.5 Slot 7

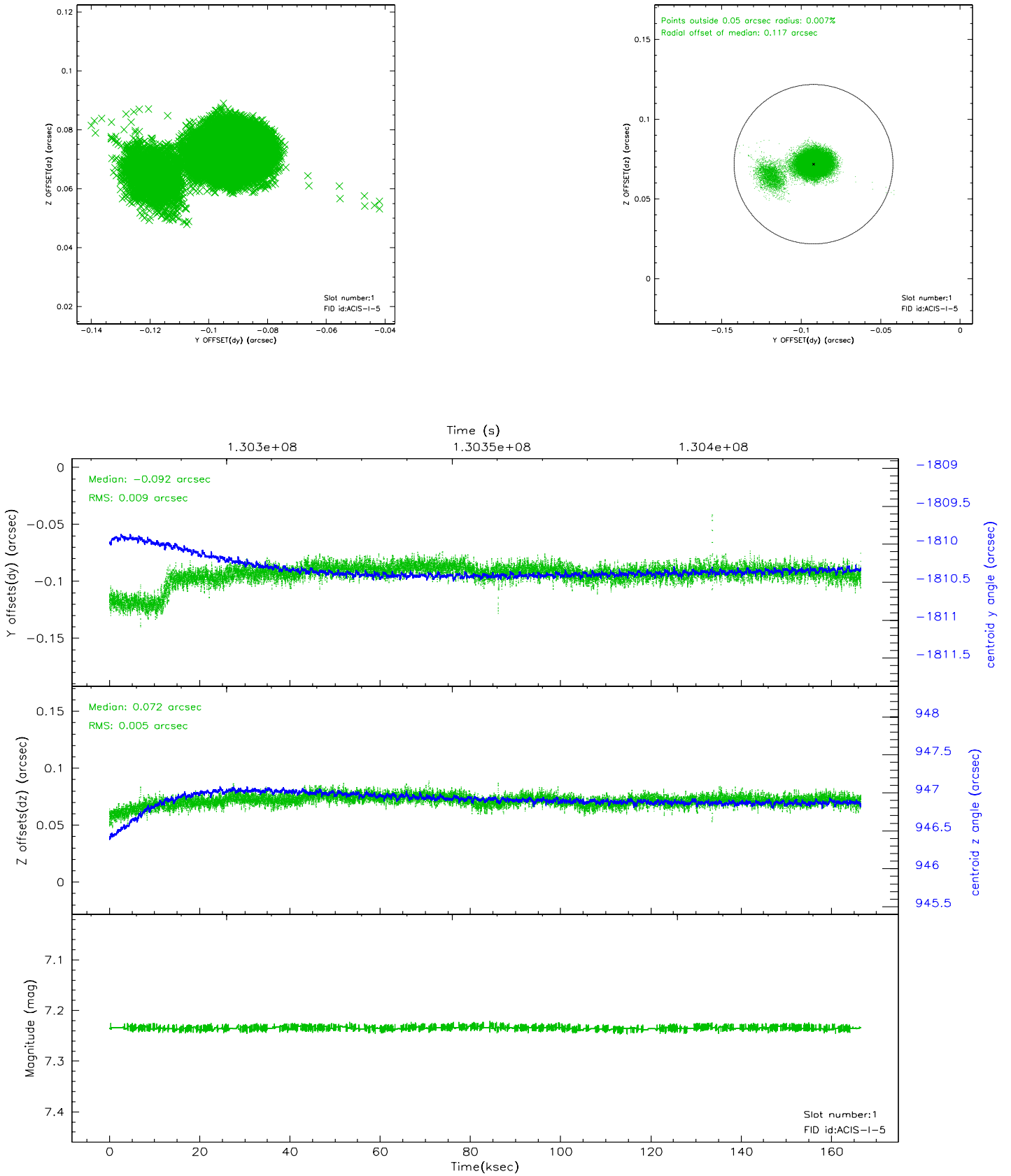


## 2.5 FID Slots

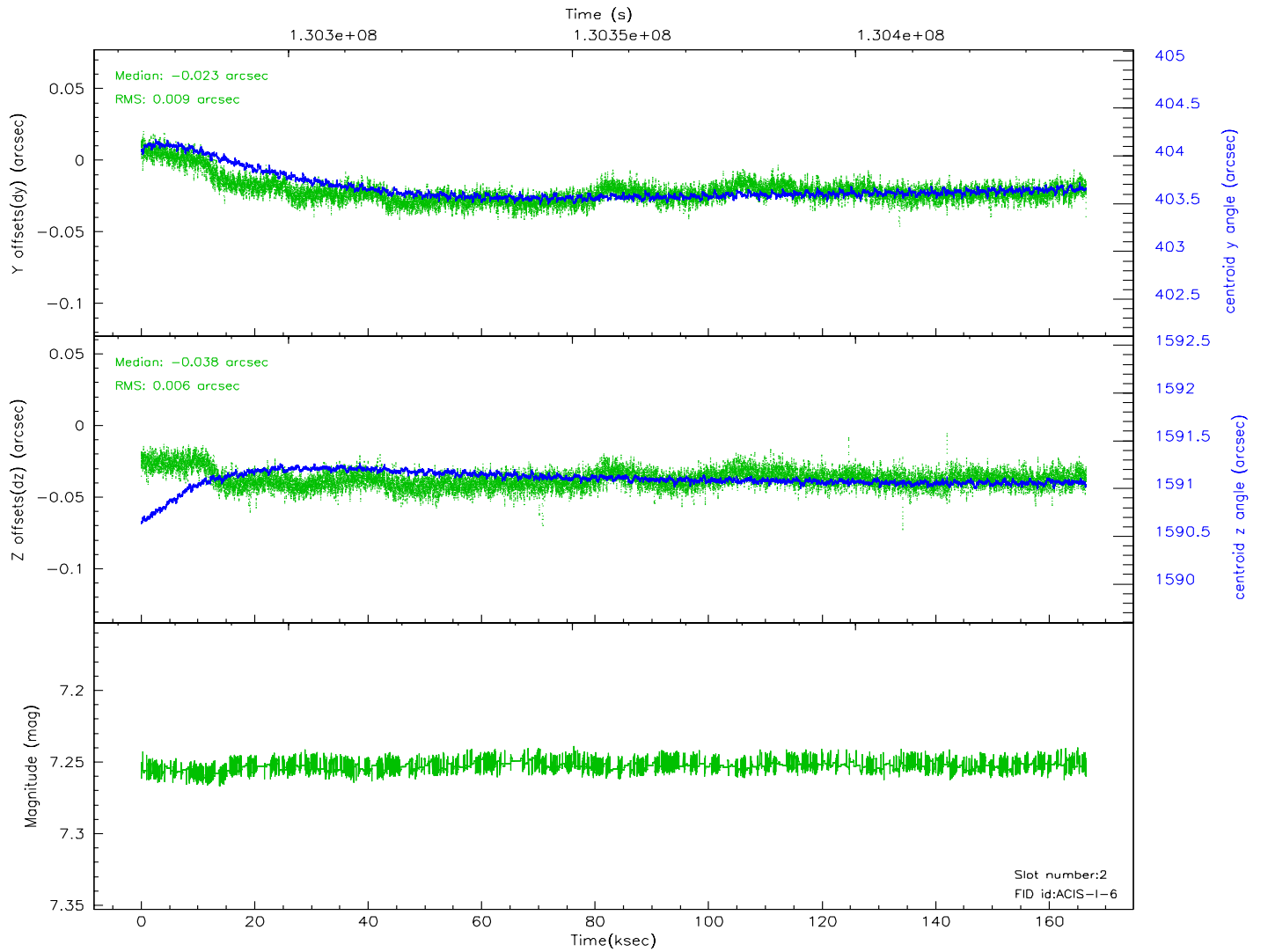
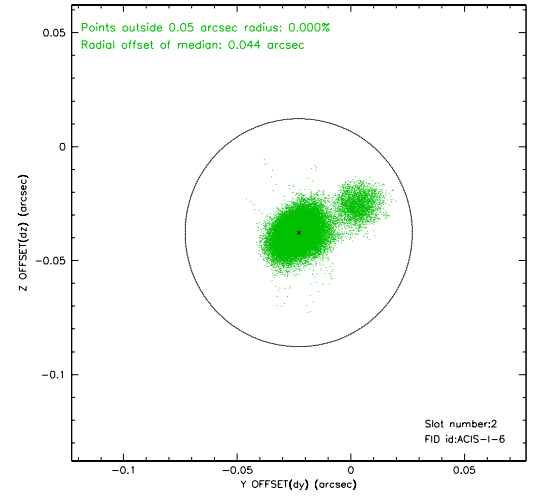
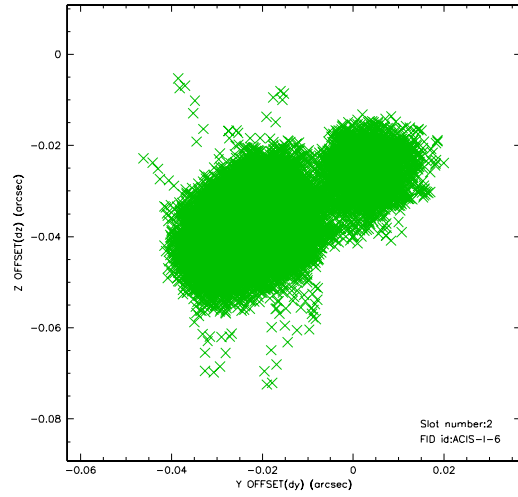
### 2.5.1 Slot 0



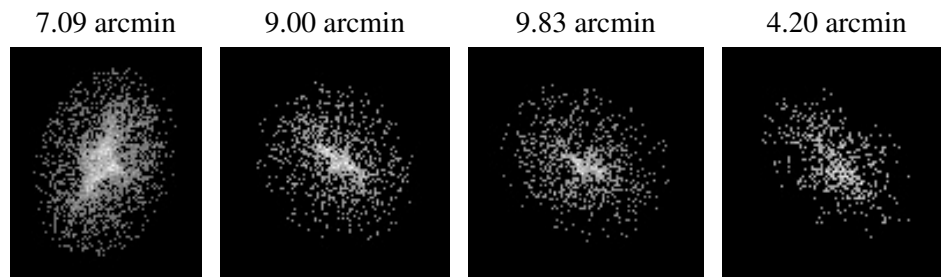
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	166.531

### A.2 Comments

Roll constraint satisfied.