

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 1671 - L2 Version 5  
Chandra X-Ray Center

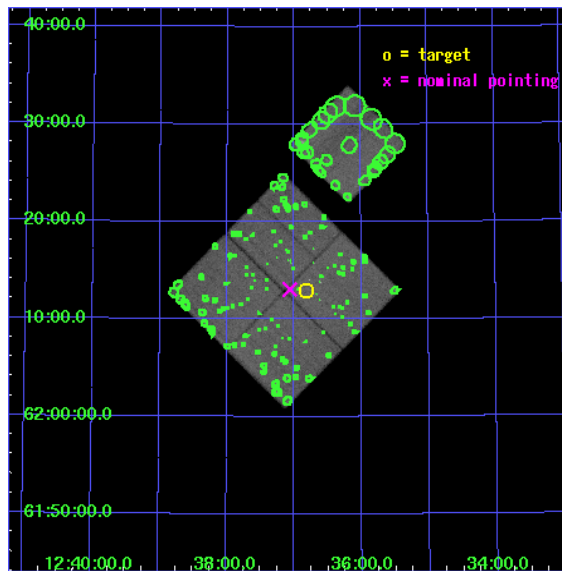
L2 Processing Date : Feb 5 2009

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# 1 Front

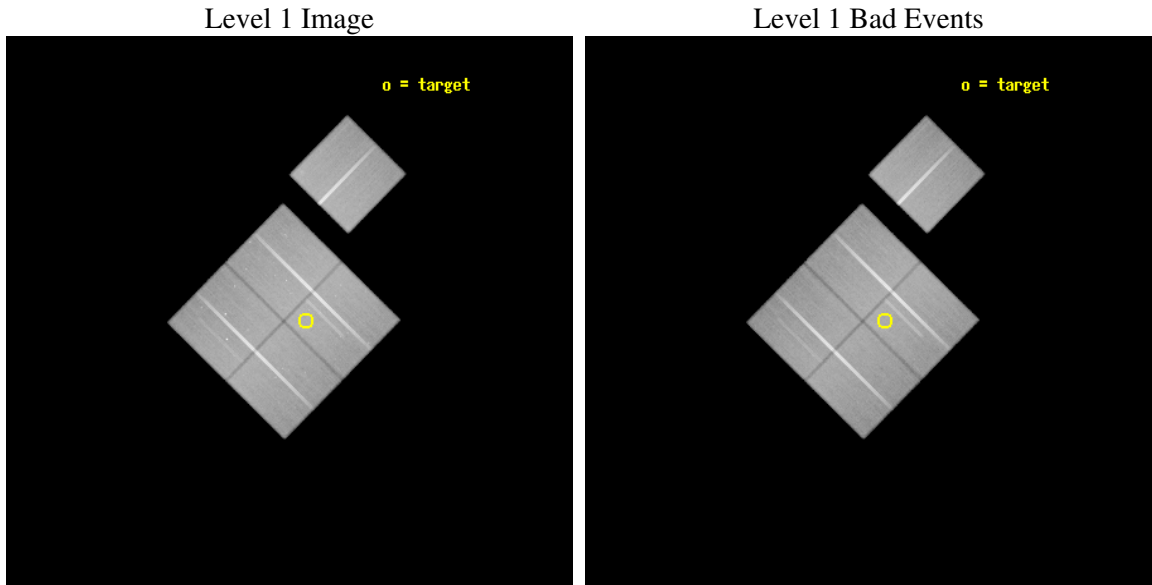
seq_num	900030
obs_id	1671
title	HDF NORTH SURVEY
observer	PROFESSOR GORDON GARMIRE
object	HDF NORTH
dtcycle	0
cycle	P
ra_targ	189.205833
dec_targ	62.21611
ra_nom	189.26606229537
dec_nom	62.217603522345
roll_nom	44.50110359543
revision	5
ontime	169396.27676363
livetime	167182.98969999
ontime0	169402.55871405
ontime1	169399.41775382
ontime2	169389.99487308
ontime3	169396.27676363
ontime6	169405.69967428
l2events	524330



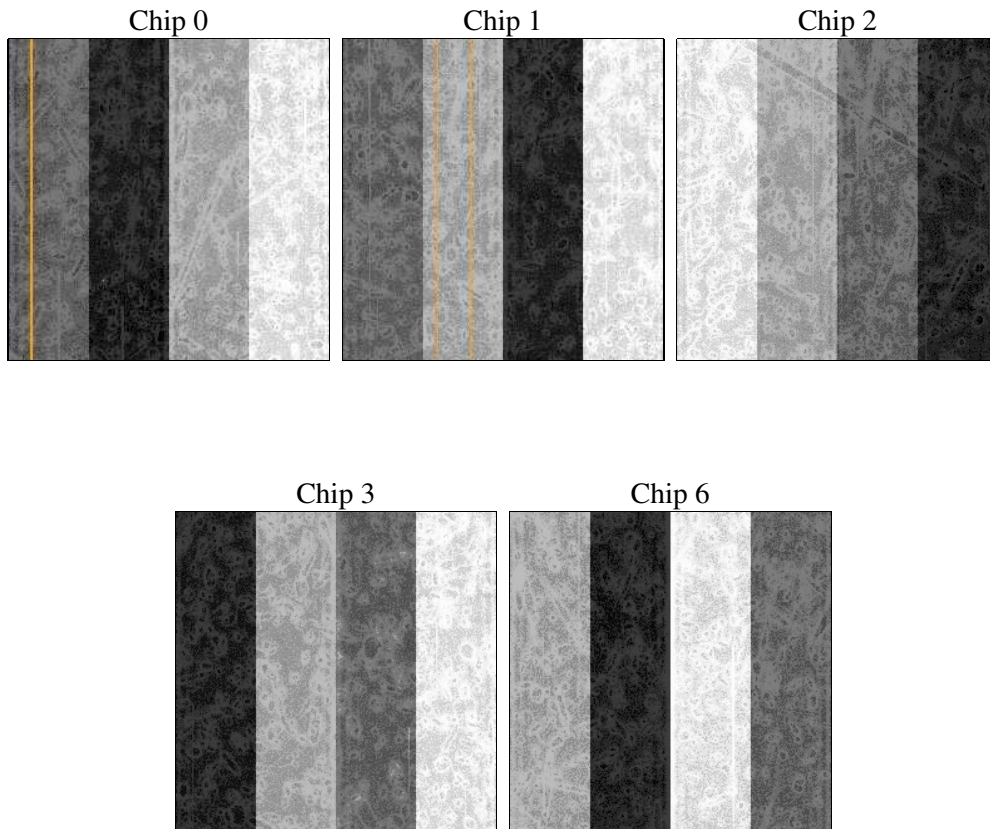
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.11.10
caldbver	3.5.1
date	2009-02-05T01:39:31
revision	5

sched_exp_time	169338.627000
ontime	169396.27676363
ontime0	169402.55871405
ontime1	169399.41775382
ontime2	169389.99487308
ontime3	169396.27676363
ontime6	169405.69967428
ll events	5123363

### 2.1.4 Events

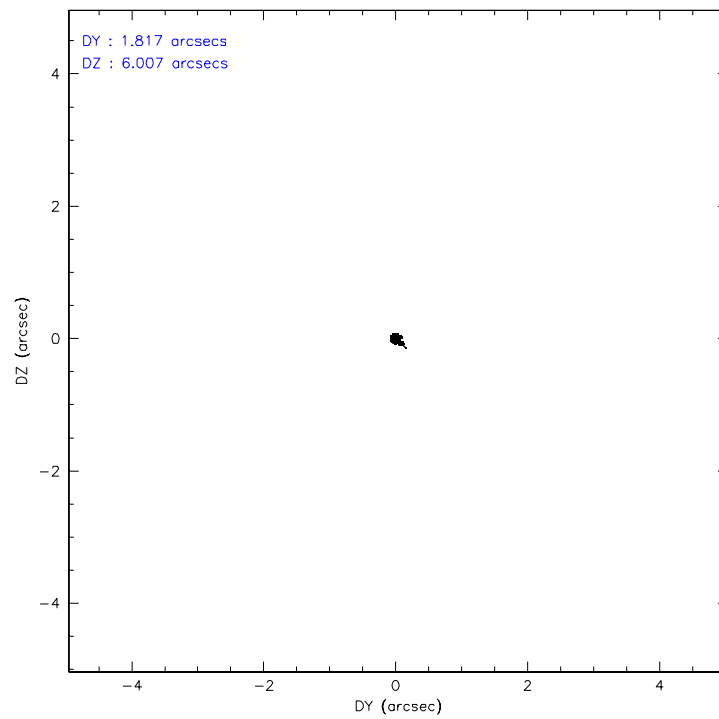
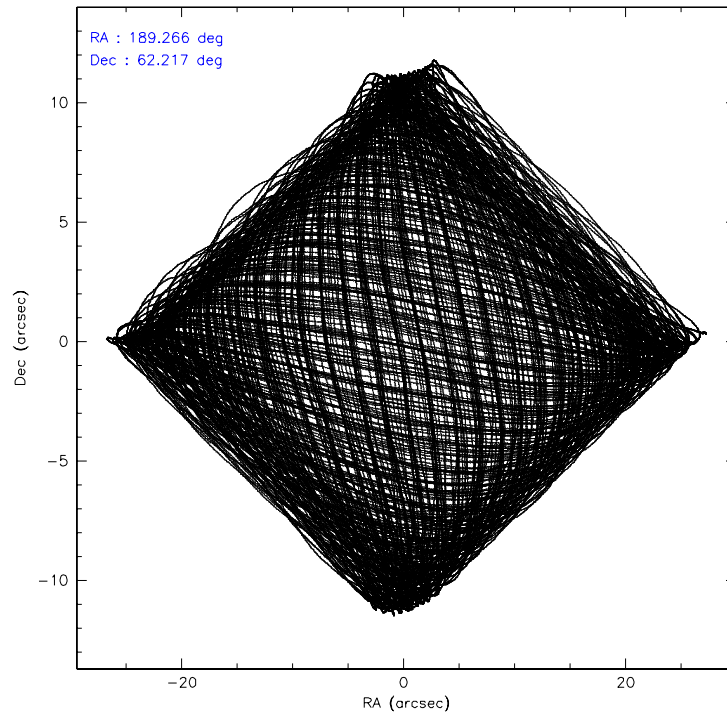
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	975702	976111	1059616	1070969	1040965
rejected events	849955	850386	938884	952592	921780
rejected %	87%	87%	88%	88%	88%

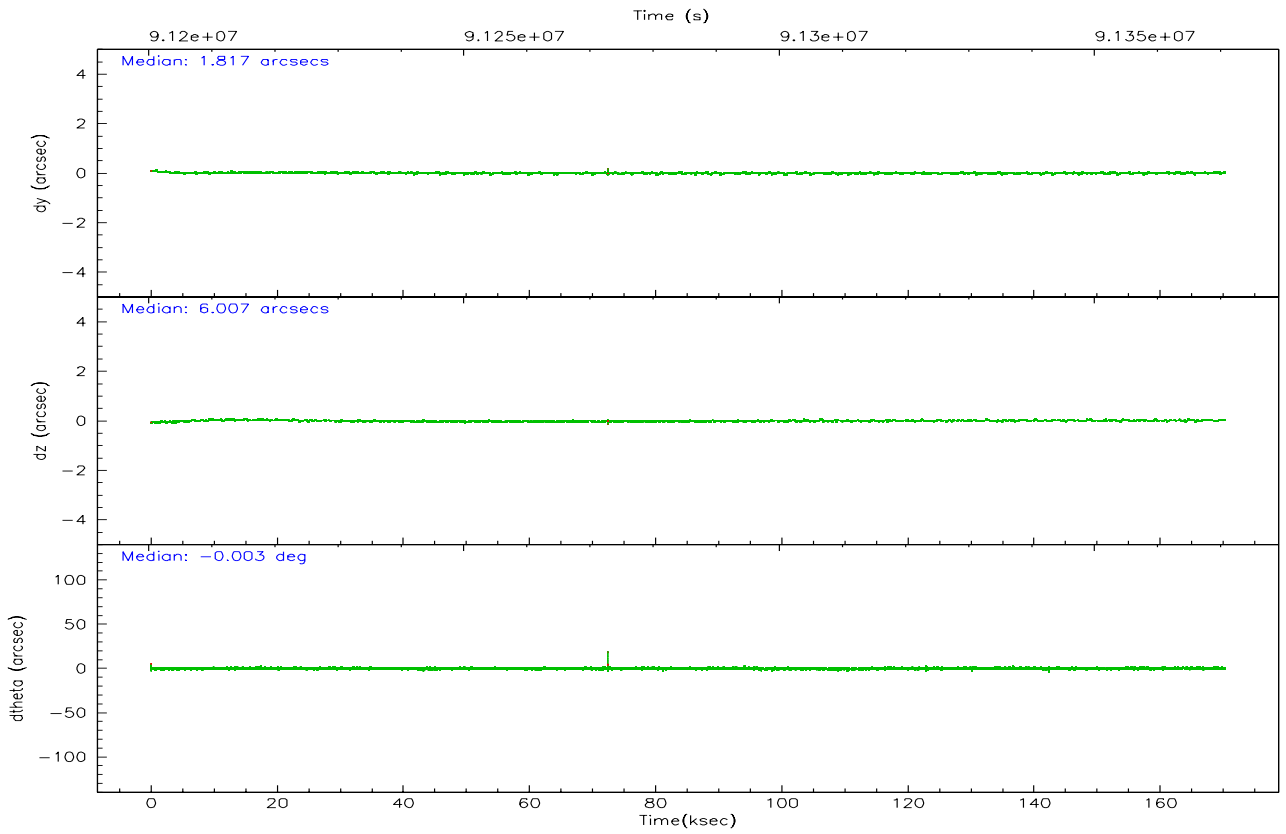
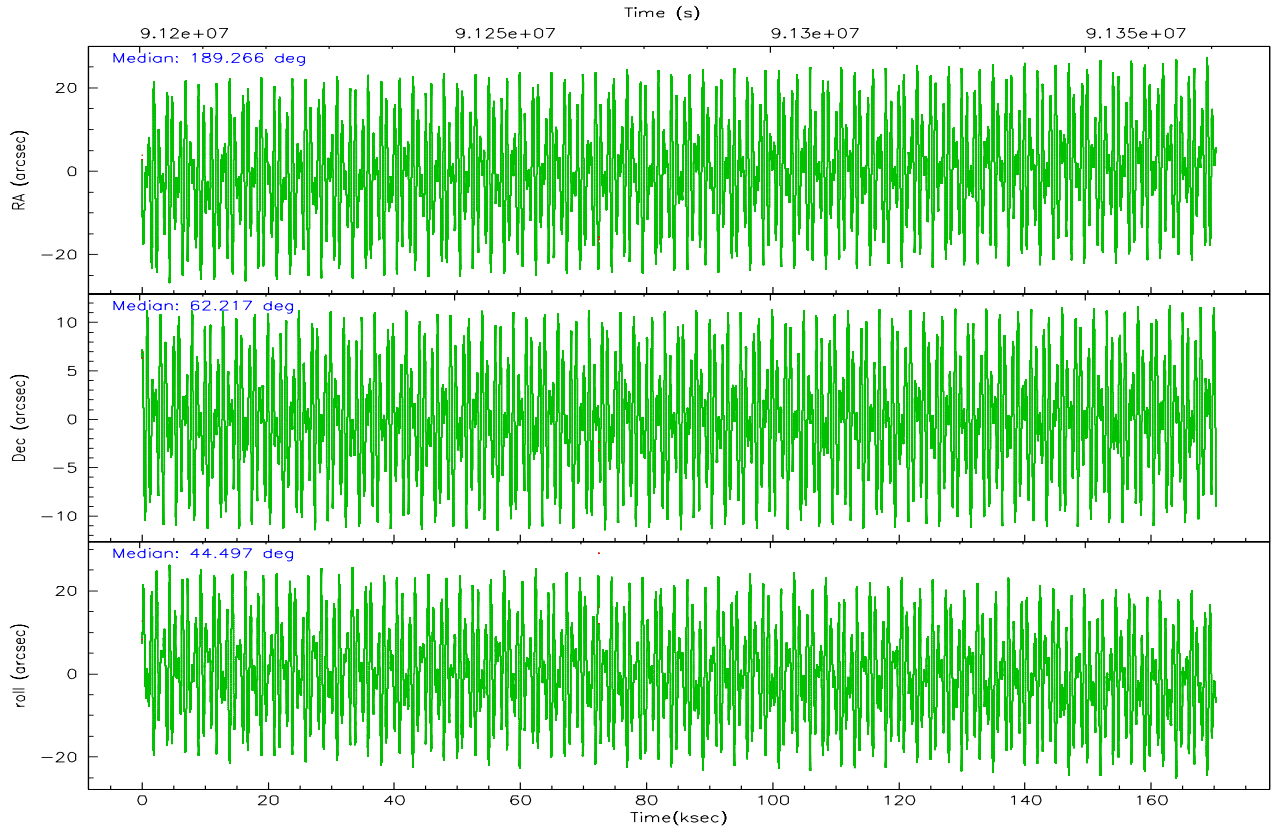
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	54704	50685	52788	50516	48370
	5%	5%	4%	4%	4%
grade 1 events	510	475	448	520	417
	0%	0%	0%	0%	0%
grade 2 events	25970	25424	25092	23664	23770
	2%	2%	2%	2%	2%
grade 3 events	12316	13088	11351	11492	11969
	1%	1%	1%	1%	1%
grade 4 events	11412	12920	11182	11521	11761
	1%	1%	1%	1%	1%
grade 5 events	36248	39295	35003	40181	42268
	3%	4%	3%	3%	4%
grade 6 events	21382	23643	20358	21225	23363
	2%	2%	1%	1%	2%
grade 7 events	813160	810581	903394	911850	879047
	83%	83%	85%	85%	84%

## 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	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	189.2660622953688	189.2660622953688	Subarray requested	NONE	NONE
Pointing Dec	62.21760352234467	62.21760352234467	Alternating exposures requested	N	N
Pointing Roll	44.50110359543007	44.50110359543007	Primary exposure time	3.1	3.1
SIM focus pos (mm)	-0.78090834371673	-0.78090834371673			
SIM defocus (mm)	0.001439854621703041	0.001439854621703041			
SIM translation stage pos (mm)	-233.5874344608	-233.5874344608			
SIM translation stage offset (mm)	-0.005028630631784381	-0.005028630631784381			
Observation start time	91200391.35491399	91200391.35491399			
Observation start date	2000-11-21T13:41:28	2000-11-21T13:26:31			
Observation end time	91370692.036419	91370692.036419			
Observation end date	2000-11-23T12:43:46	2000-11-23T12:44:52			
Read mode	TIMED	TIMED			

## 2.3 Aspect



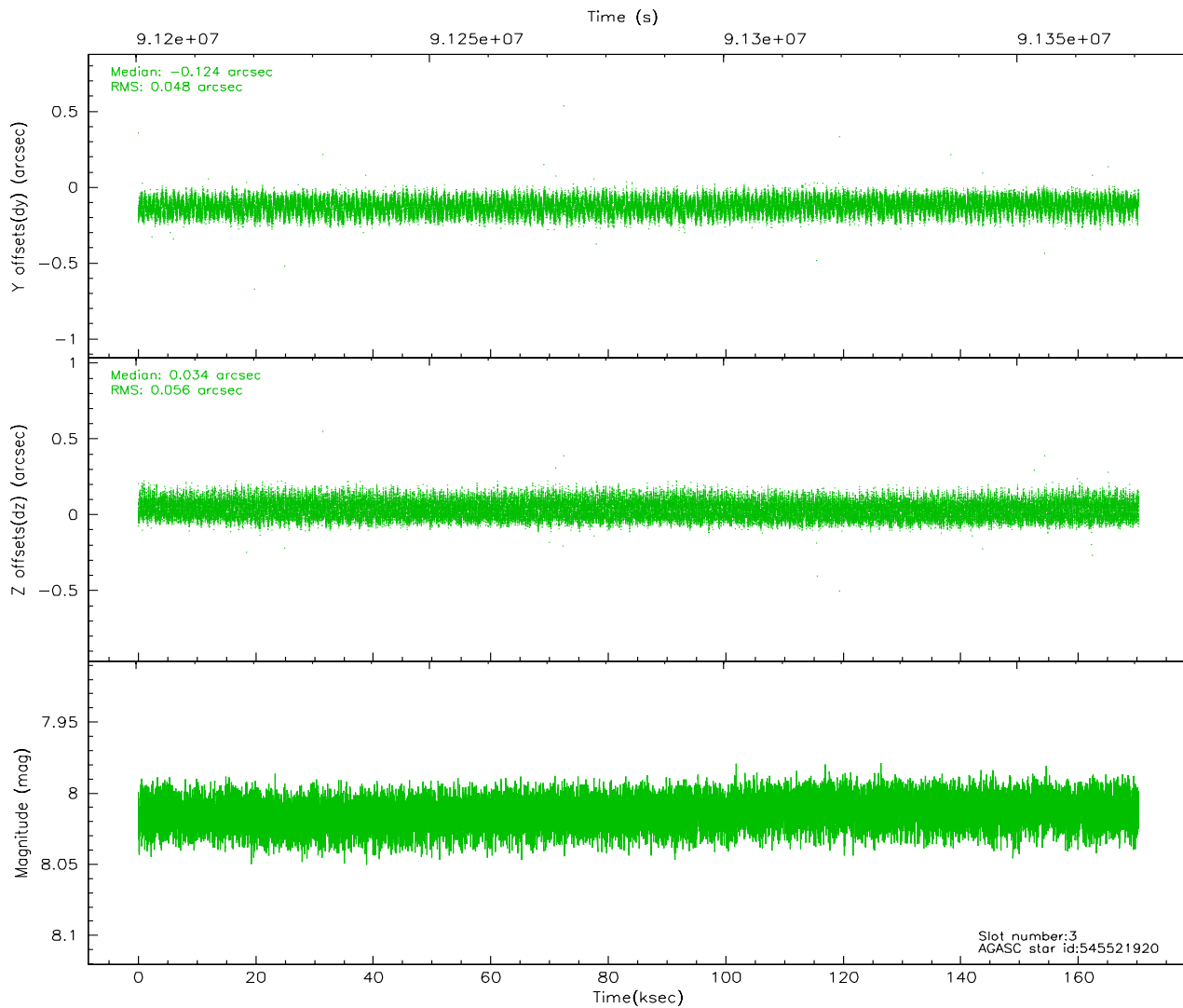
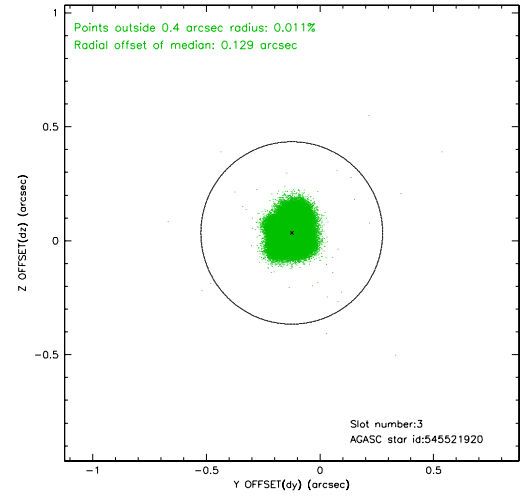
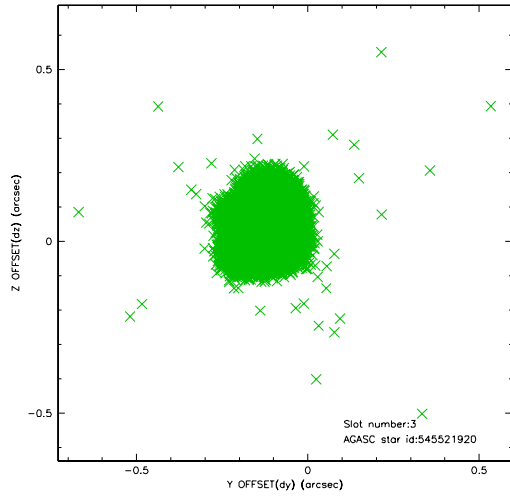


### Slot Statistics

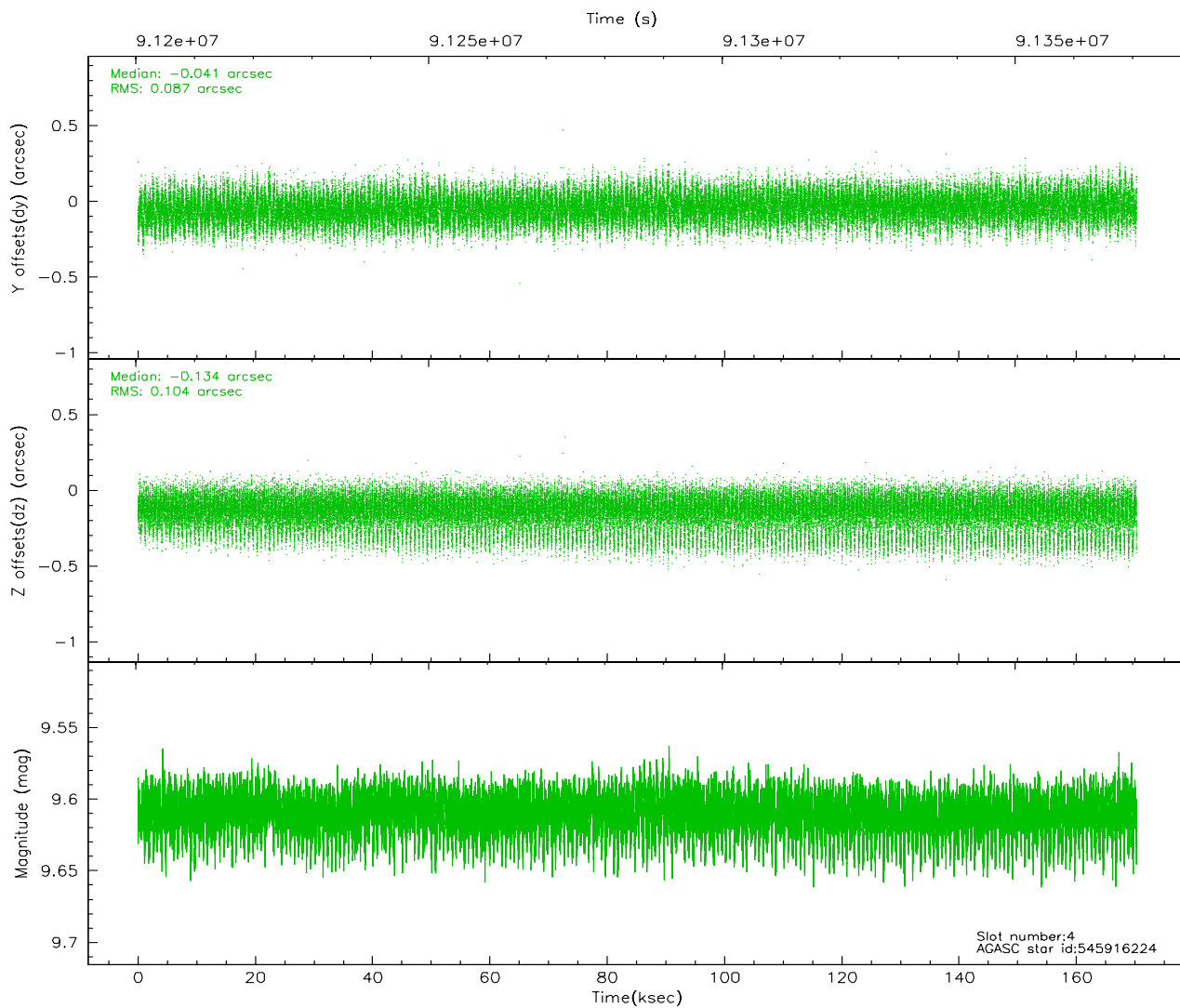
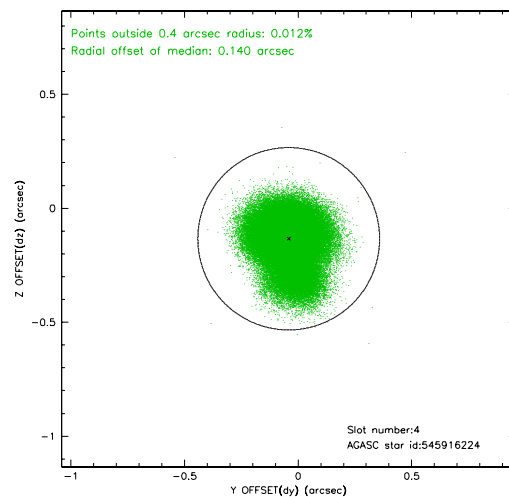
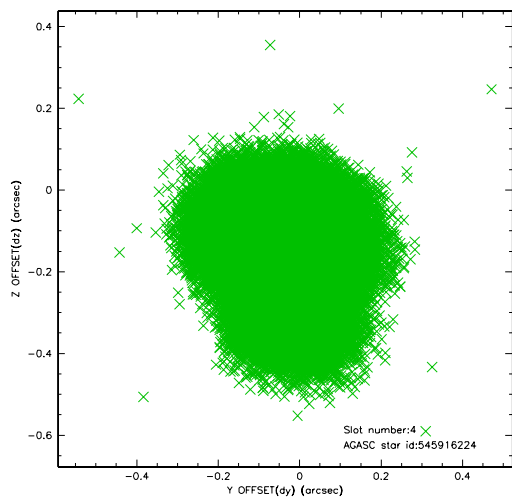
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	41525	-0.032	-0.068	0.010	0.016	0.000000	0.000000	-756.19	-835.81
1	FID	ACIS-I-4	7.18	41524	-0.029	0.045	0.006	0.011	0.000000	0.000000	2157.91	1070.55
2	FID	ACIS-I-5	7.23	41532	-0.040	0.092	0.009	0.016	0.000000	0.000000	-1810.19	1068.29
3	GUIDE	545521920	8.01	83046	-0.124	0.034	0.080	0.118	190.203465	62.042567	786.63	-1497.62
4	GUIDE	545916224	9.61	83012	-0.041	-0.134	0.145	0.235	188.817359	62.651242	646.91	1687.27
5	GUIDE	545523632	10.04	83002	0.233	0.058	0.135	0.217	188.952319	61.550910	-1973.72	-1291.43
6	GUIDE	545523592	10.23	82987	0.178	0.216	0.155	0.247	188.664324	61.541019	-2349.98	-969.24
7	GUIDE	545916288	10.10	83005	-0.273	-0.184	0.324	0.470	188.813969	62.949161	1397.01	2453.71

## 2.4 Star Slots

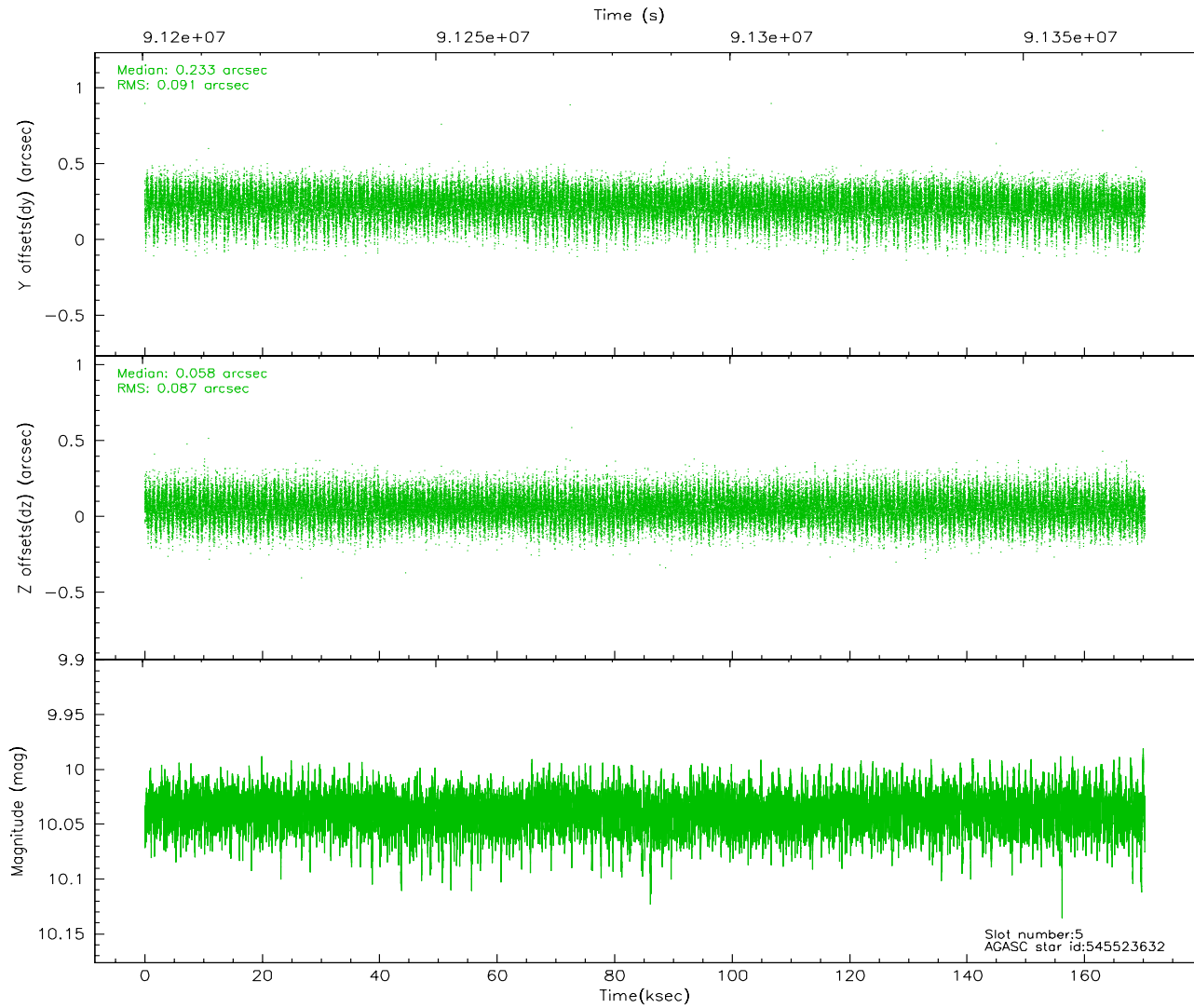
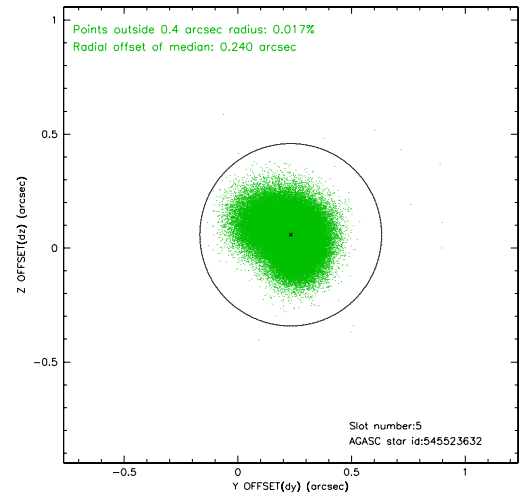
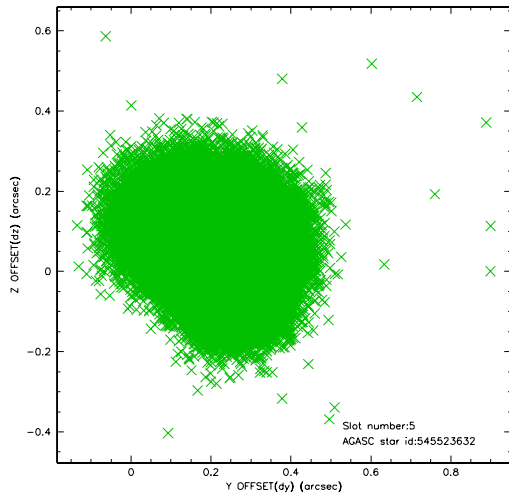
### 2.4.1 Slot 3



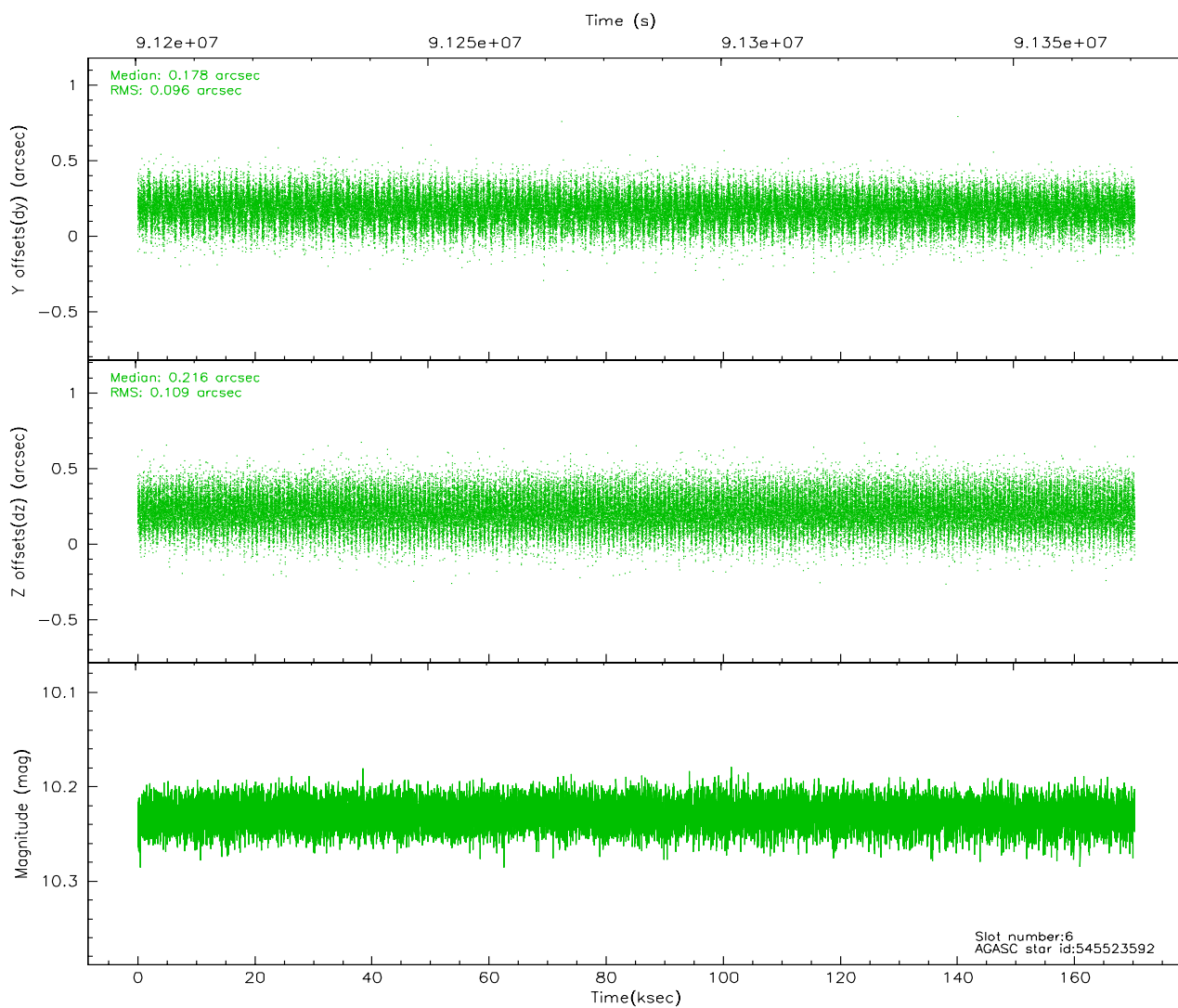
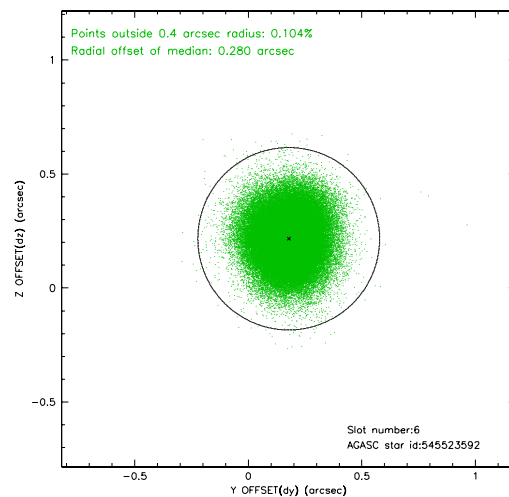
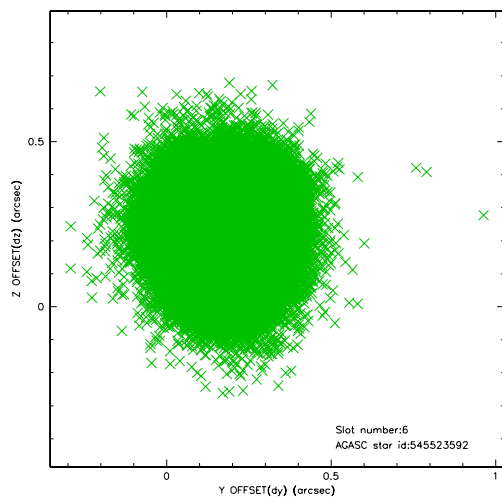
## 2.4.2 Slot 4



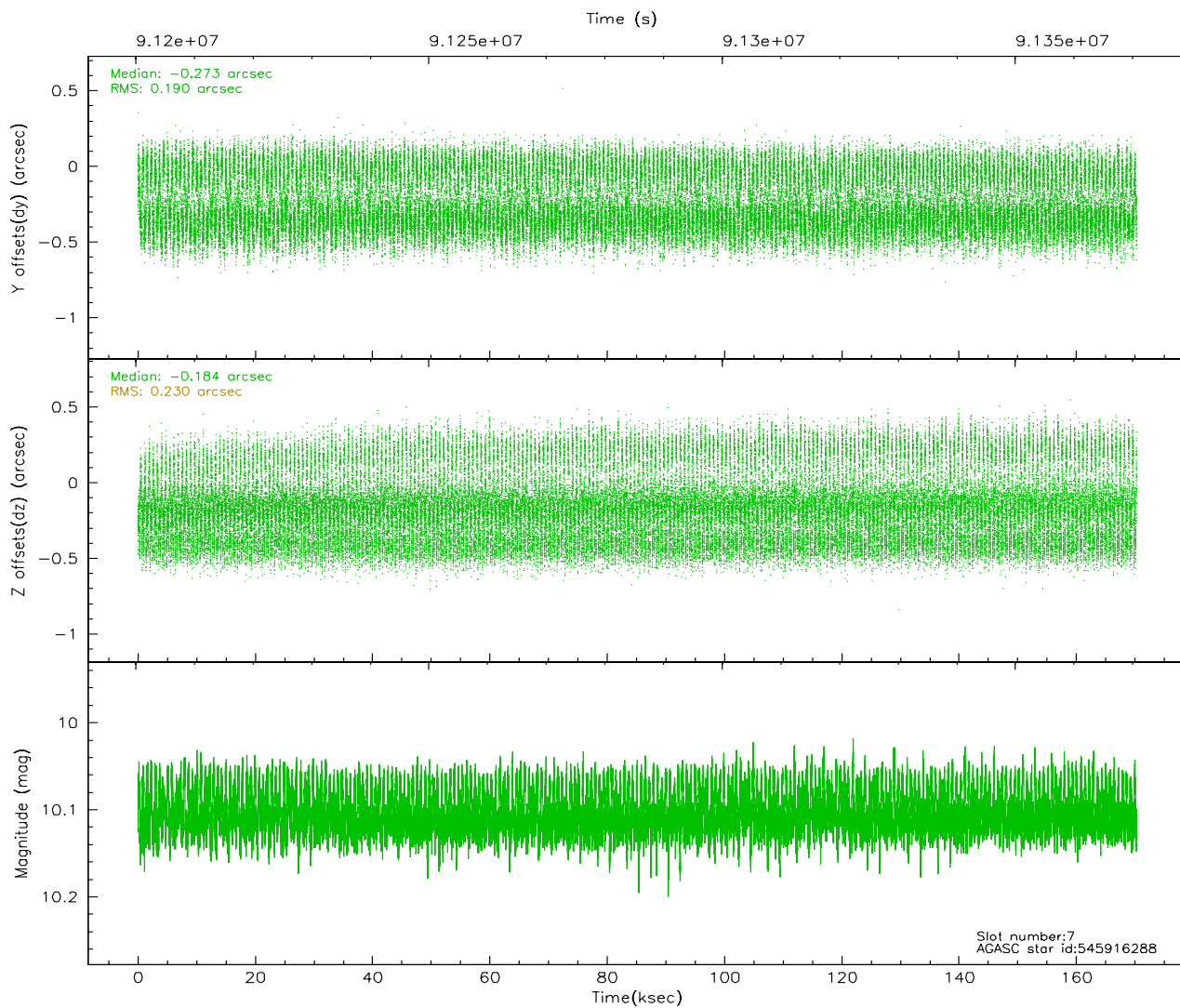
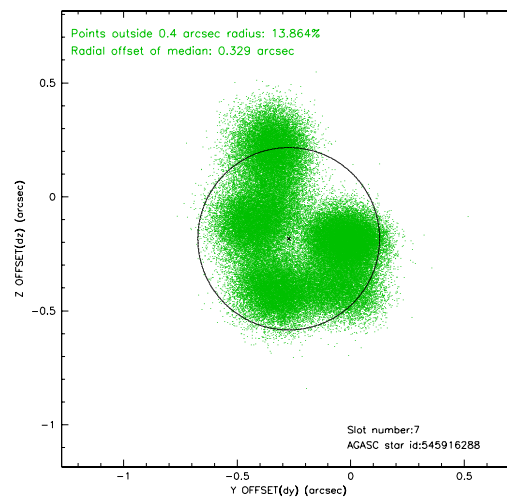
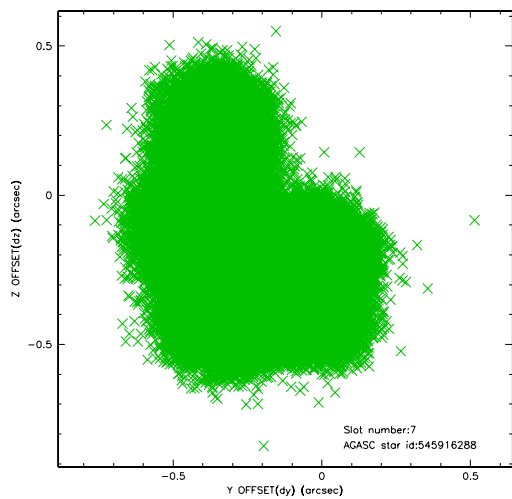
### 2.4.3 Slot 5



## 2.4.4 Slot 6

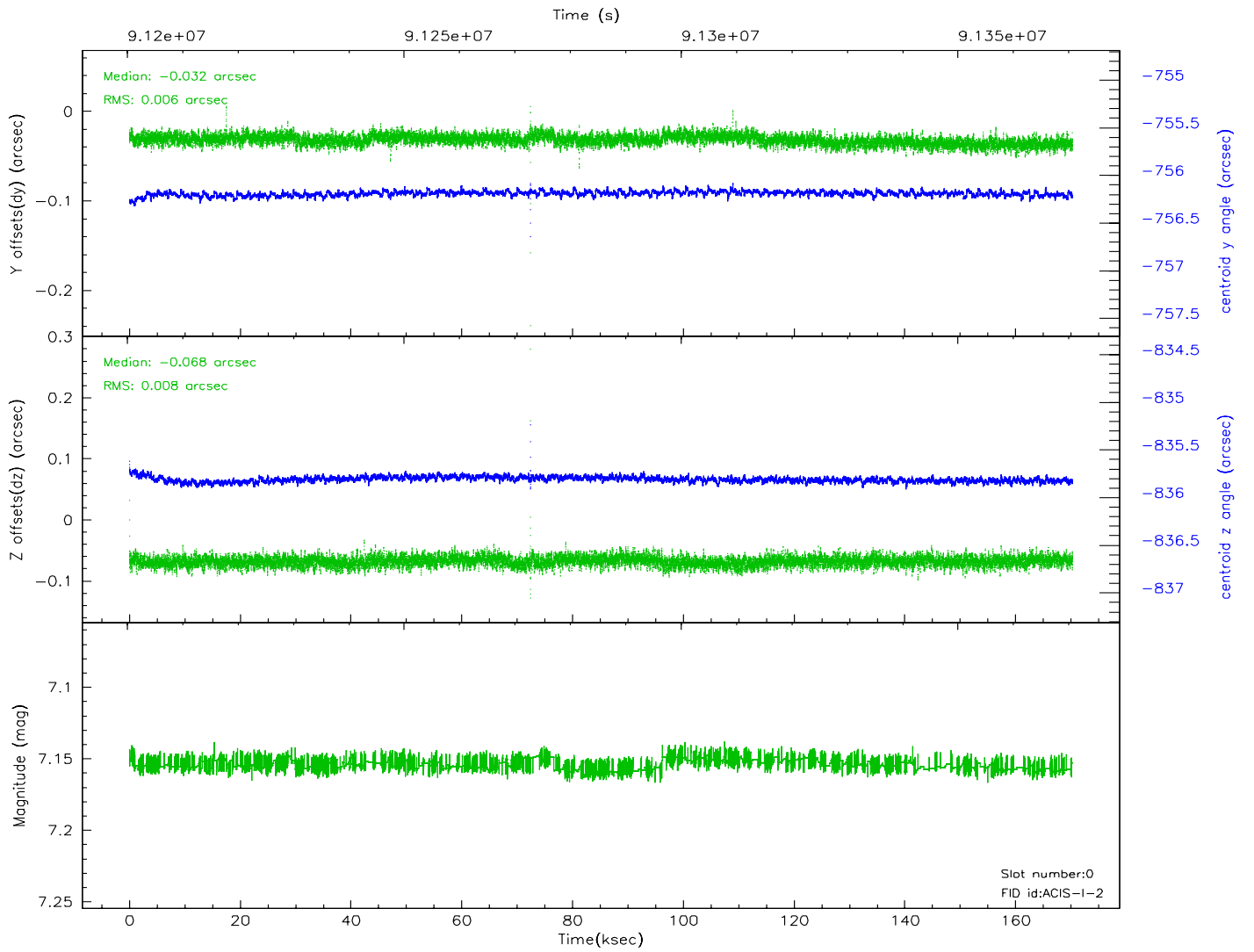
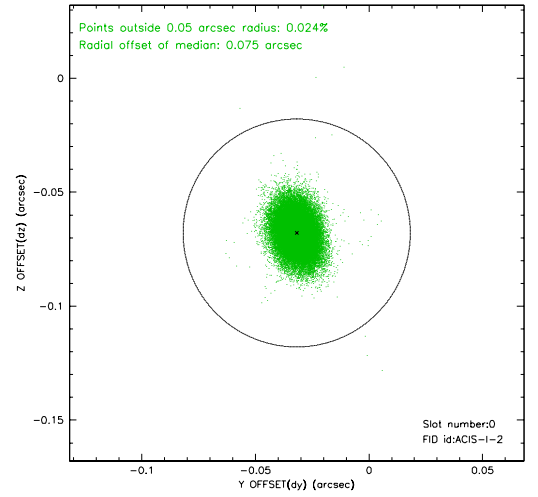
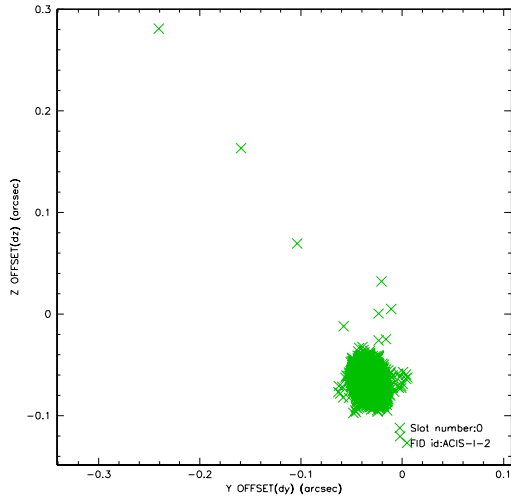


## 2.4.5 Slot 7

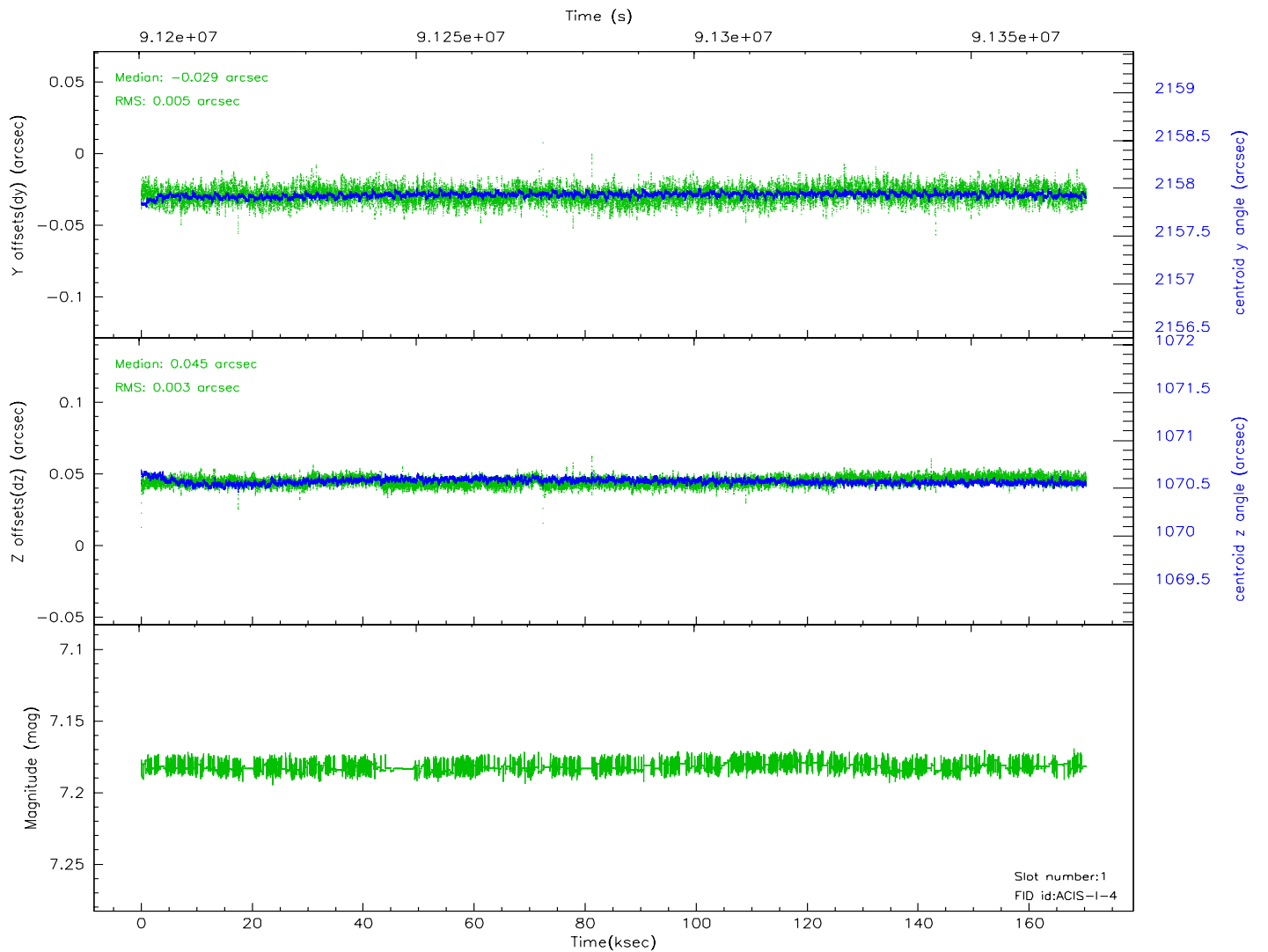
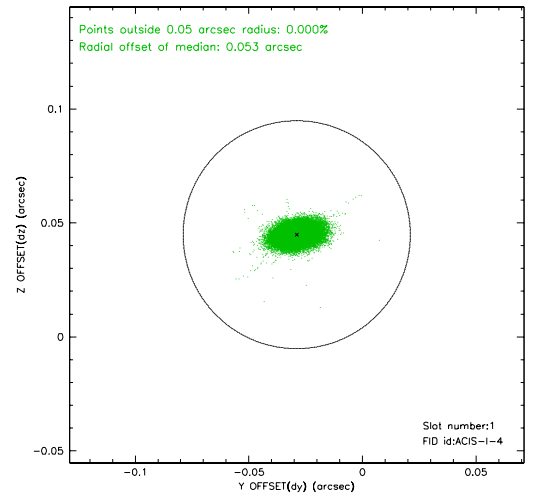
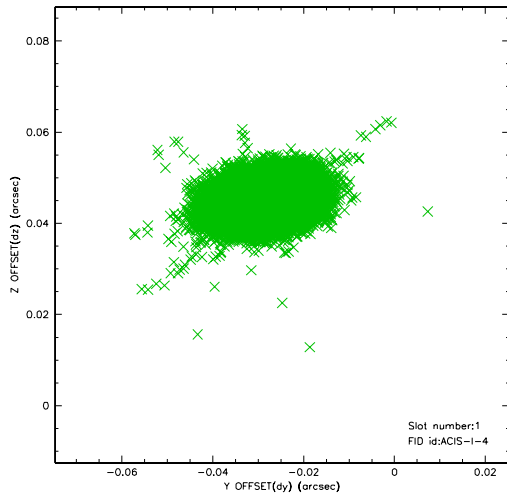


## 2.5 FID Slots

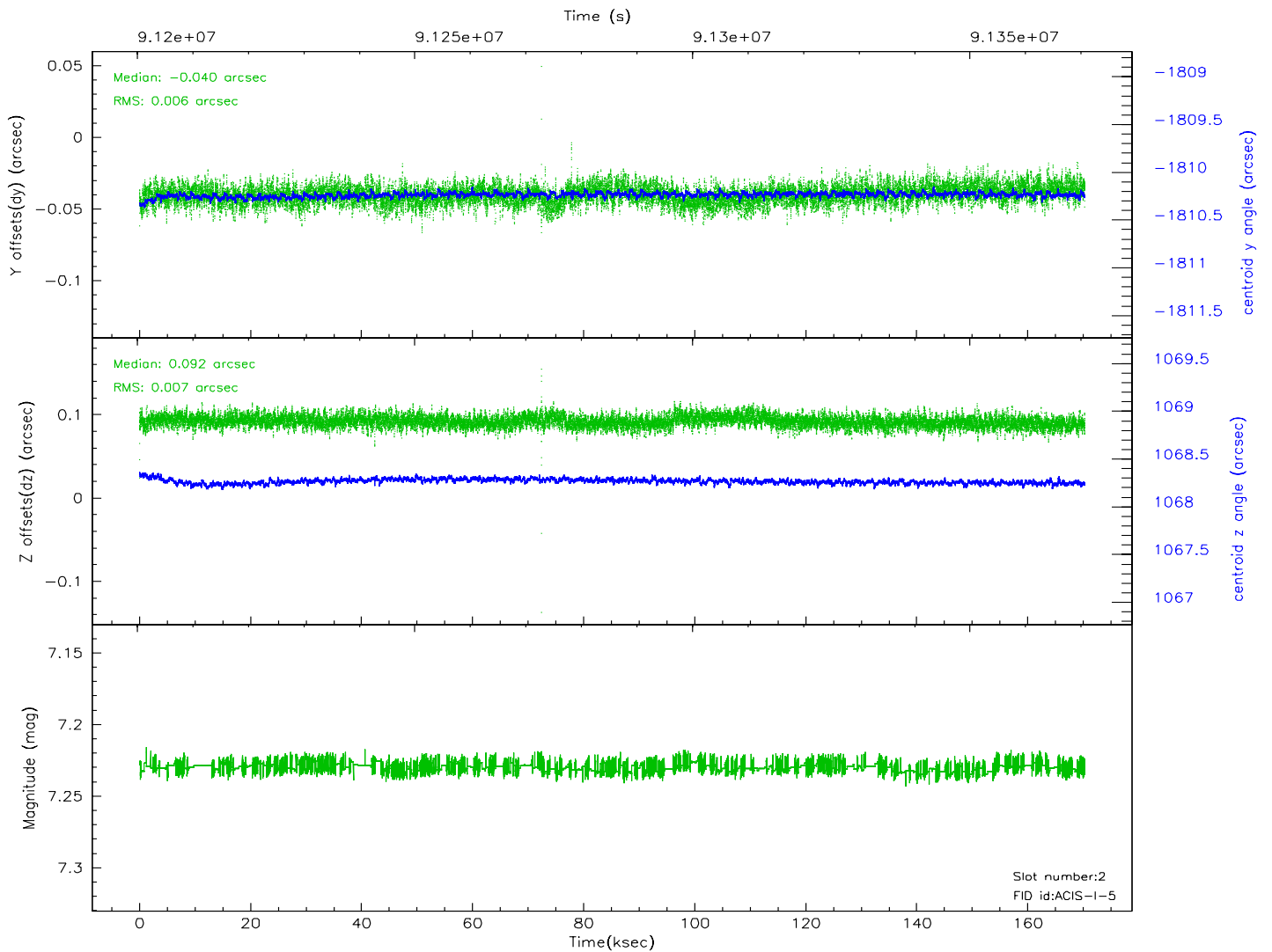
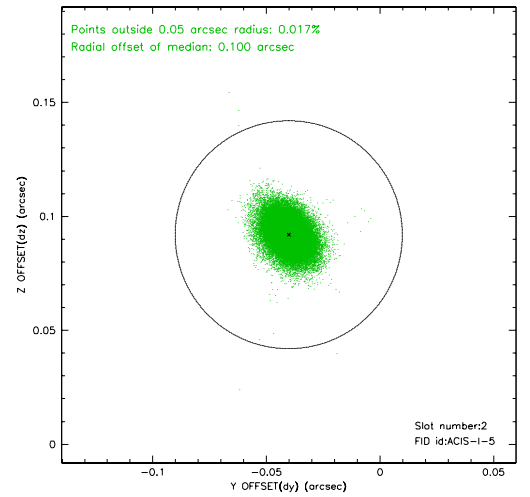
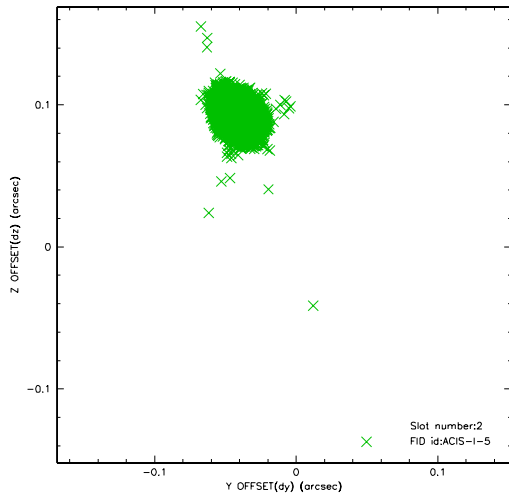
### 2.5.1 Slot 0



## 2.5.2 Slot 1

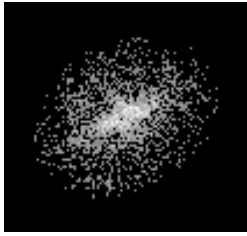


### 2.5.3 Slot 2

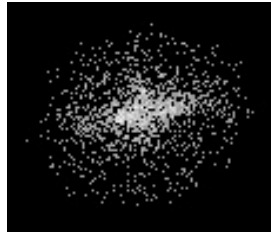


### 3 Point Sources

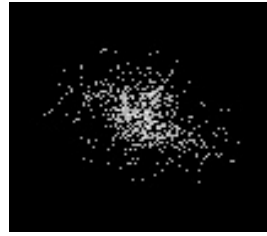
6.79 arcmin



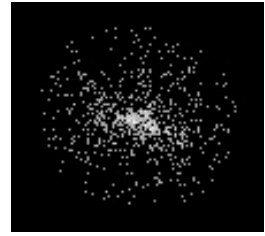
6.67 arcmin



3.99 arcmin



8.94 arcmin



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2009.02.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	169

## A.2 Comments

This obsid was reprocessed to correct minor errors in parameters used in processing. Some of these parameters cannot be determined automatically for this observation and were derived from spacecraft telemetry.