

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 17575 - L2 Version 2  
Chandra X-Ray Center

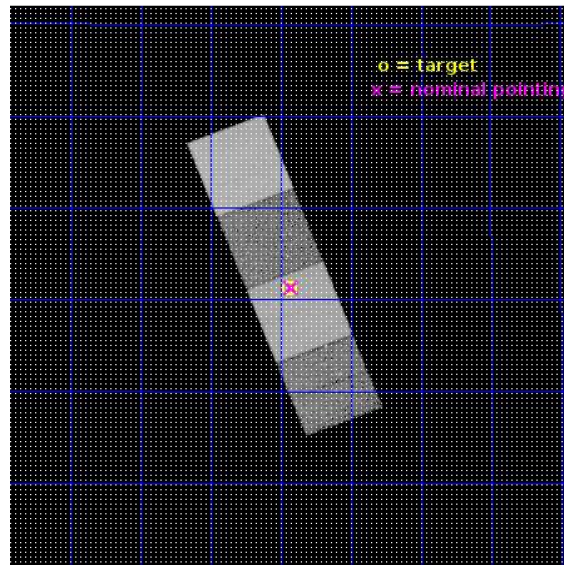
L2 Processing Date : May 9 2018

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# 1 Front

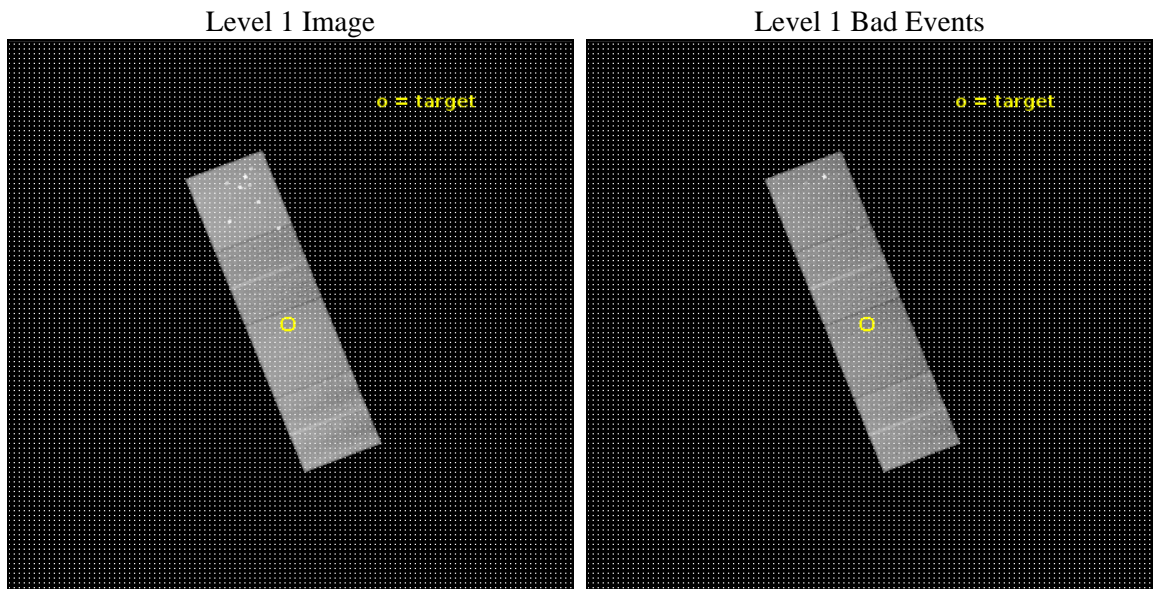
seq_num	901187	Sequence number
obs_id	17575	Observation id
title	The Local Leo Cold Cloud: Separating Solar Wind Charge Exchange from Local Bubble X-ray Emission	Proposal title
observer	Dr. Jonathan Slavin	Principal investigator
object	Local Leo Cold Cloud	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	145.6083	Observer's specified target RA [deg]
dec_targ	12.3538	Observer's specified target Dec [deg]
ra_nom	145.60606903144	Nominal RA [deg]
dec_nom	12.354801247682	Nominal Dec [deg]
roll_nom	68.657105009717	Nominal Roll [deg]
revision	2	Processing version of data
ontime	36065.400277495	Sum of GTIs [s]
livetime	35594.179271908	Livetime [s]
ontime5	36065.400277495	Sum of GTIs [s]
ontime6	36065.400277495	Sum of GTIs [s]
ontime7	36065.400277495	Sum of GTIs [s]
ontime8	36062.259267211	Sum of GTIs [s]
l2events	315094	Number of level 2 events



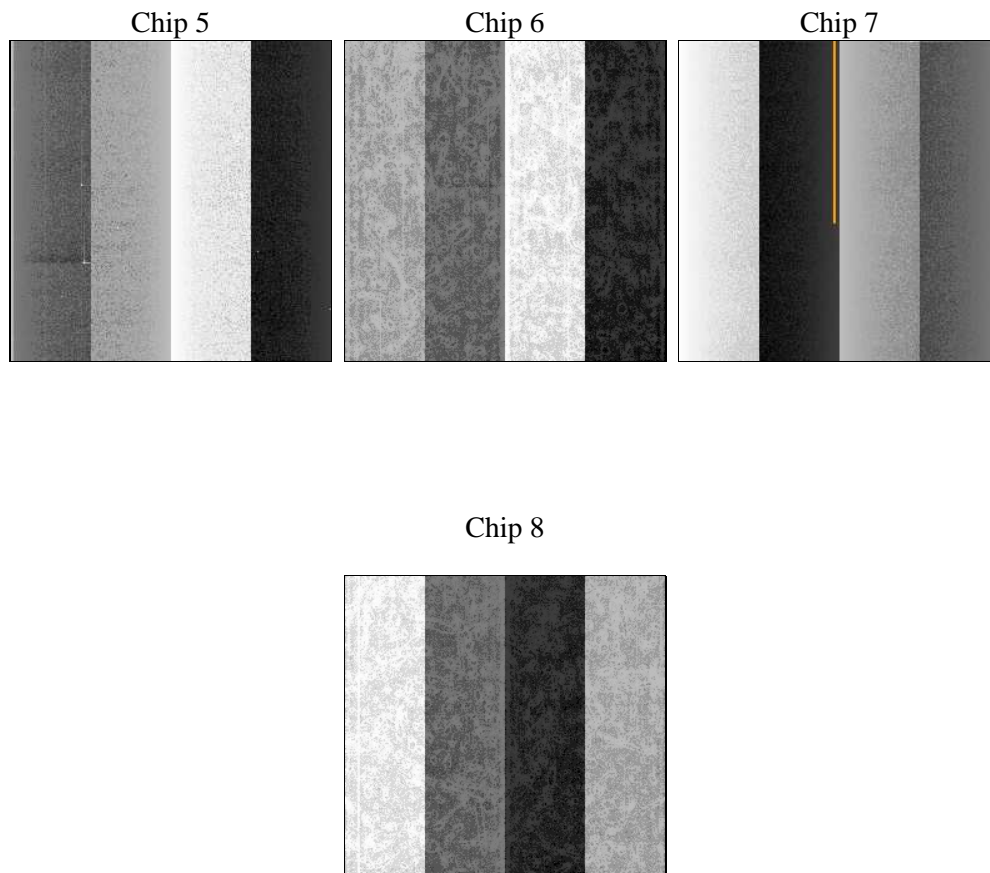
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	36065.400277495	Sum of GTIs [s]
caldbver	4.7.8	&#160	ontime5	36065.400277495	Sum of GTIs [s]
date	2018-05-09T16:04:10	Date and time of file creation	ontime6	36065.400277495	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	36065.400277495	Sum of GTIs [s]
			ontime8	36062.259267211	Sum of GTIs [s]
			l1events	1161000	Number of level 1 events

### 2.1.4 Events

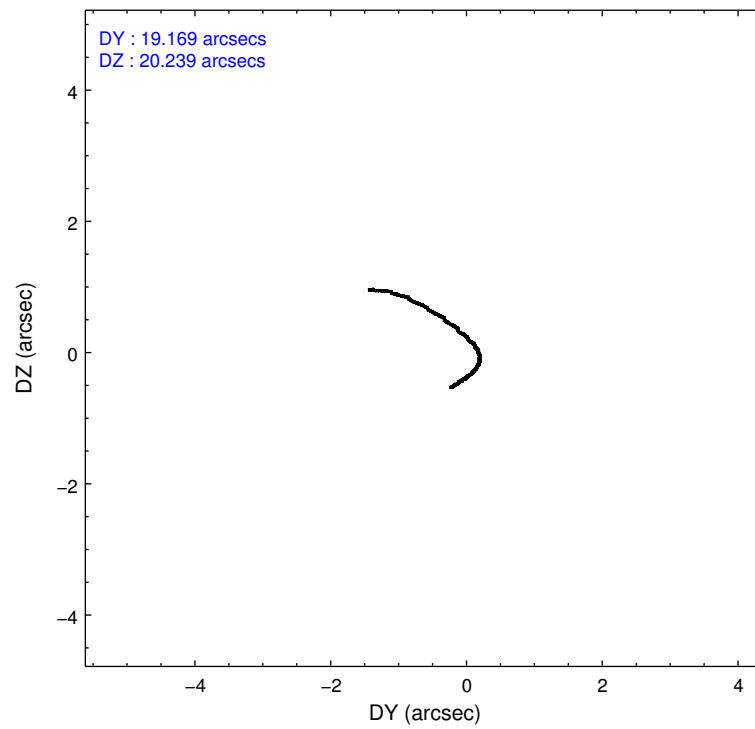
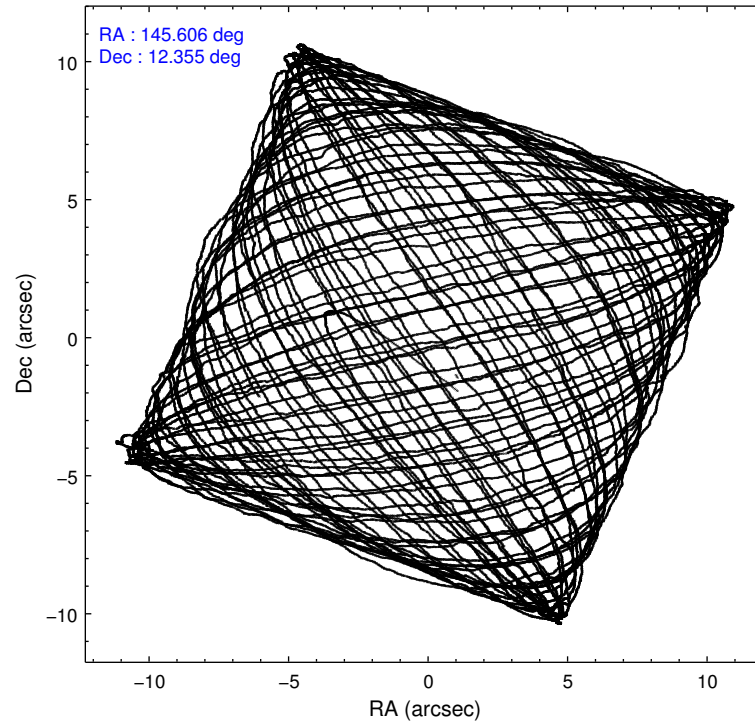
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	390452	213496	274530	282522
rejected events	186538	188203	155484	208259
rejected %	47%	88%	56%	73%

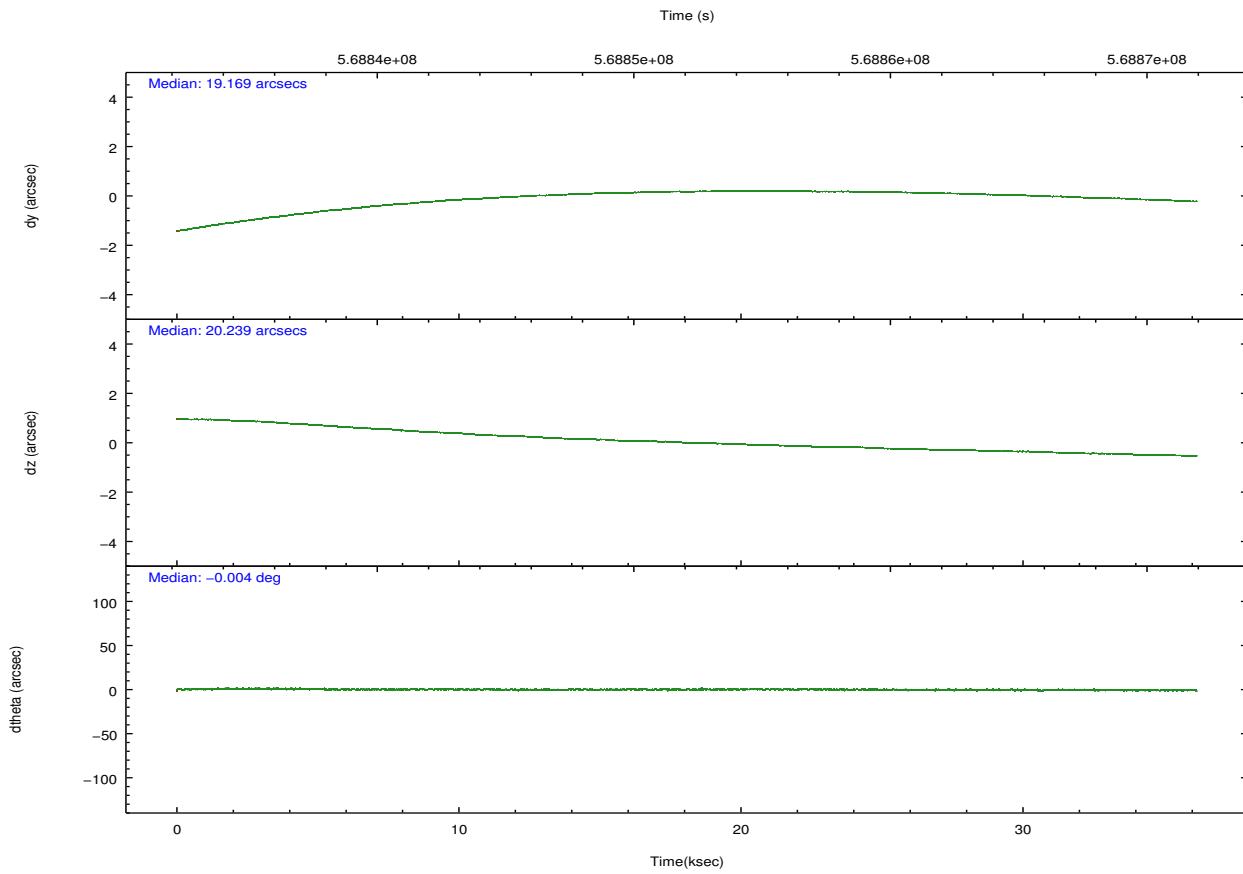
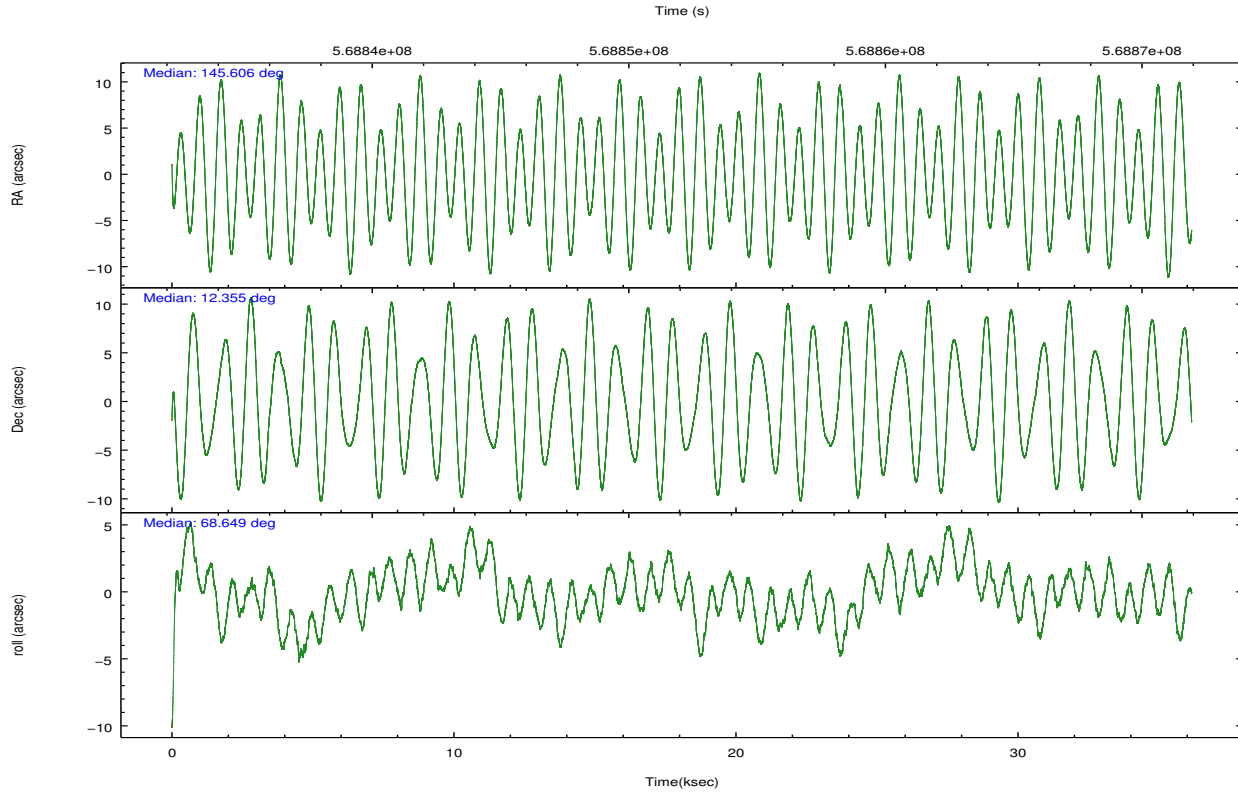
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	45590	8795	10247	20706
	11%	4%	3%	7%
grade 1 events	717	118	366	177
	0%	0%	0%	0%
grade 2 events	54210	5784	24604	18441
	13%	2%	8%	6%
grade 3 events	7509	2502	9835	7555
	1%	1%	3%	2%
grade 4 events	6294	2475	9704	6911
	1%	1%	3%	2%
grade 5 events	25042	10255	27983	15249
	6%	4%	10%	5%
grade 6 events	90358	5742	64681	20674
	23%	2%	23%	7%
grade 7 events	160732	177825	127110	192809
	41%	83%	46%	68%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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
[deg] Pointing RA	145.610662	145.6060690314371	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.327726	12.35480124768164	Alternating exposures requested	N	N
[deg] Pointing Roll	68.499501	68.65710500971662	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	567820868.184000	567820868.184000			
[s] Window stop time (MET)	570758468.184000	570758468.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	568834138.184000	568833127.375			
Observation start date	2016-01-10T17:27:50	2016-01-10T17:12:07			
[s] Observation end time (MET)	568870138.184000	568870735.13964			
Observation end date	2016-01-11T03:27:50	2016-01-11T03:38:55			
Read mode	TIMED	TIMED			

## 2.3 Aspect



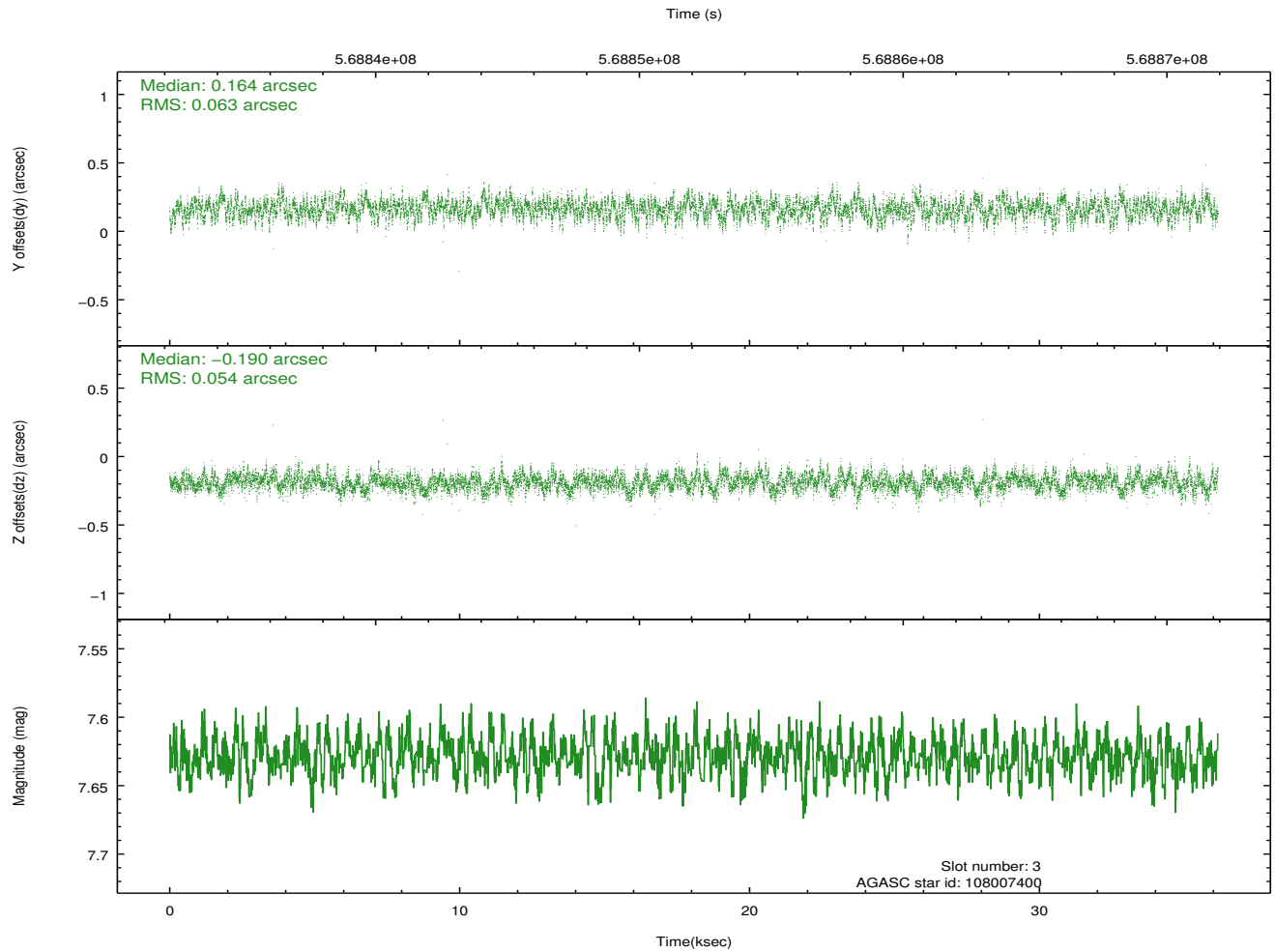
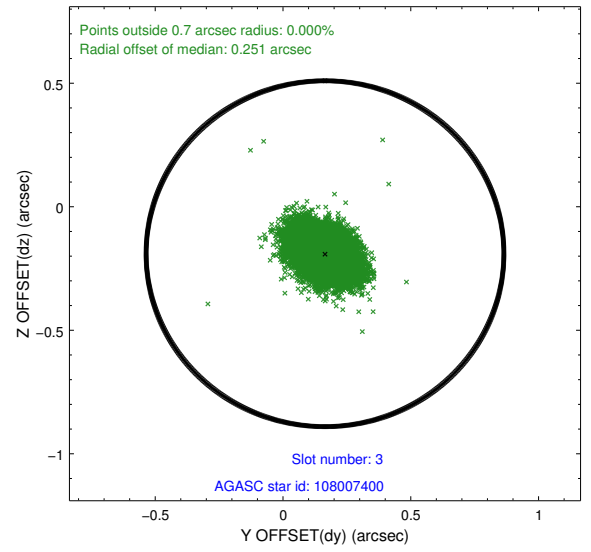
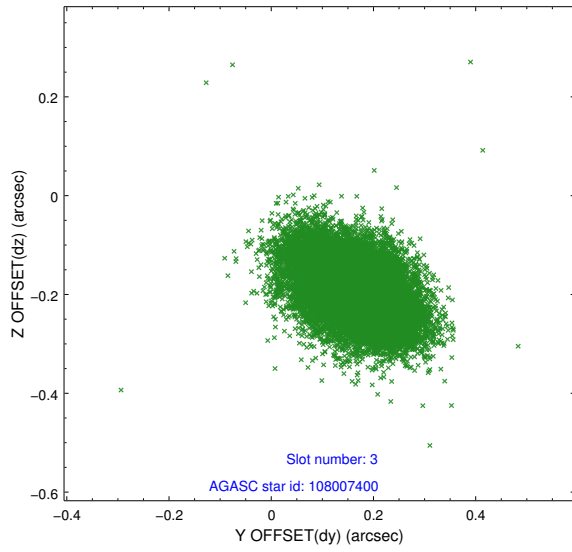


### Slot Statistics

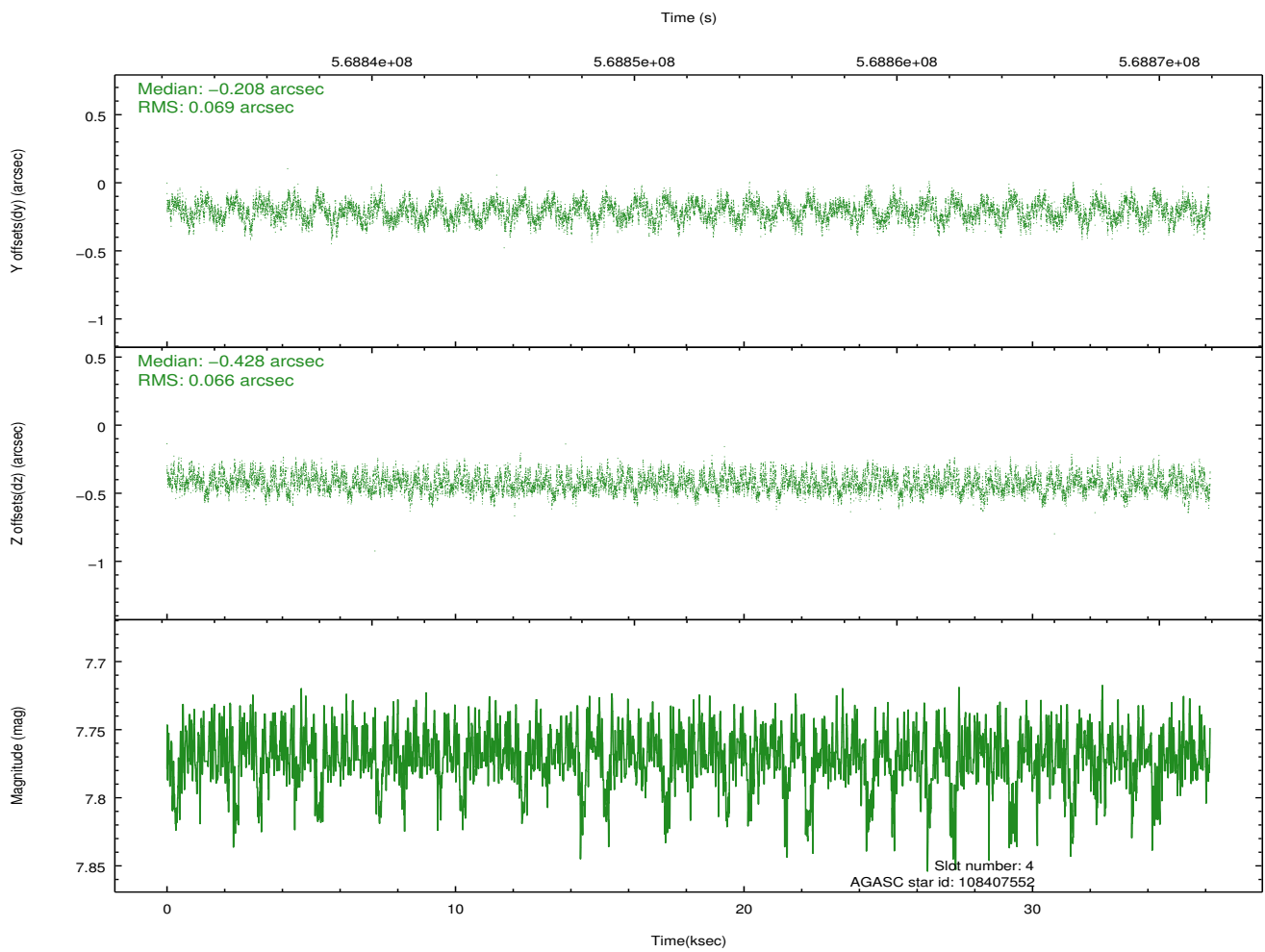
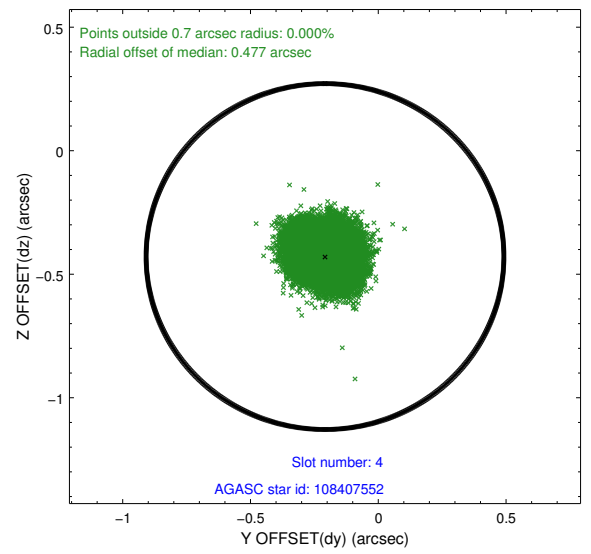
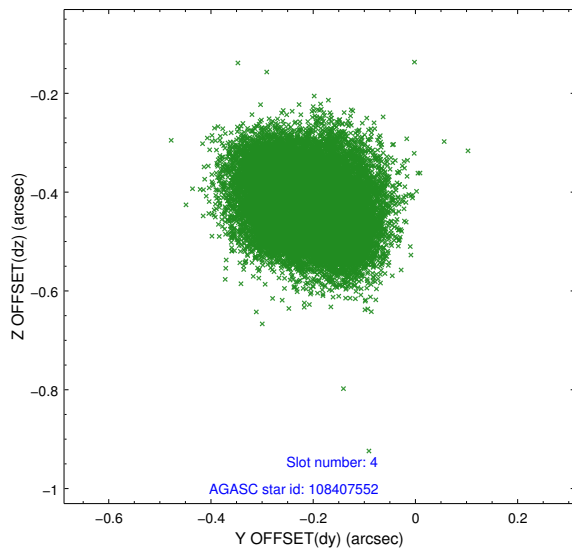
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.12	8819	-0.220	-0.124	0.016	0.051	0.000000	0.000000	-772.30	-1741.98
1	FID		ACIS-S-4	7.23	8819	0.481	0.140	0.015	0.069	0.000000	0.000000	2141.63	166.74
2	FID		ACIS-S-5	7.24	8819	-0.291	-0.005	0.010	0.019	0.000000	0.000000	-1825.19	160.28
3	GUIDE	used	108007400	7.63	17639	0.164	-0.190	0.087	0.146	144.894890	12.166080	-1461.86	2131.31
4	GUIDE	used	108407552	7.77	17638	-0.208	-0.428	0.104	0.160	145.411440	12.898641	1656.06	1403.38
5	GUIDE	used	108933040	7.12	17639	0.049	0.219	0.078	0.128	145.930414	12.159796	-148.81	-1267.98
6	GUIDE	used	109314160	8.90	17629	0.048	0.172	0.116	0.180	145.841992	12.599197	1206.75	-396.80
7	GUIDE	used	109322304	8.57	17628	-0.056	0.223	0.101	0.163	146.016782	12.535162	1219.02	-1053.67

## 2.4 Star Slots

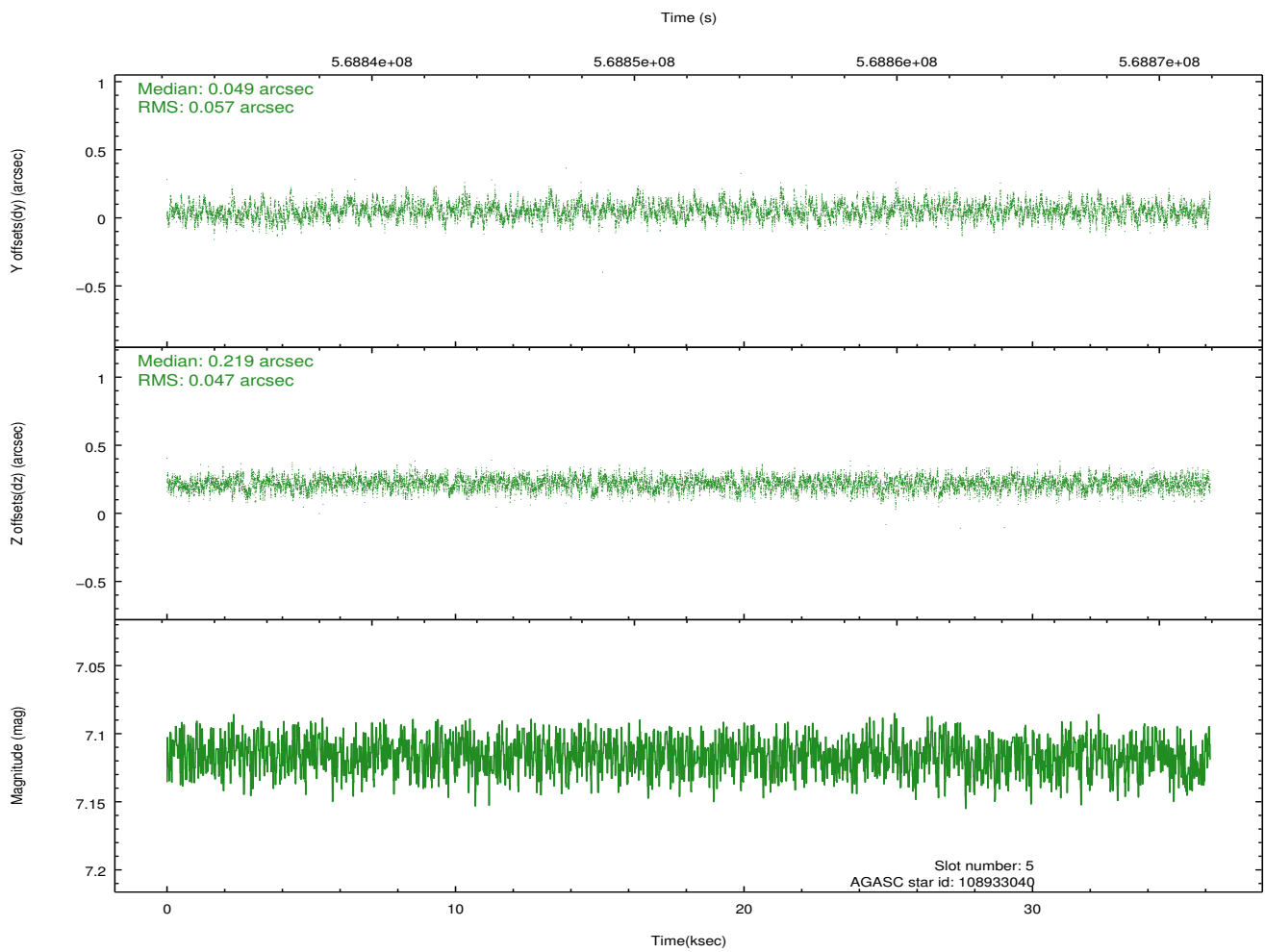
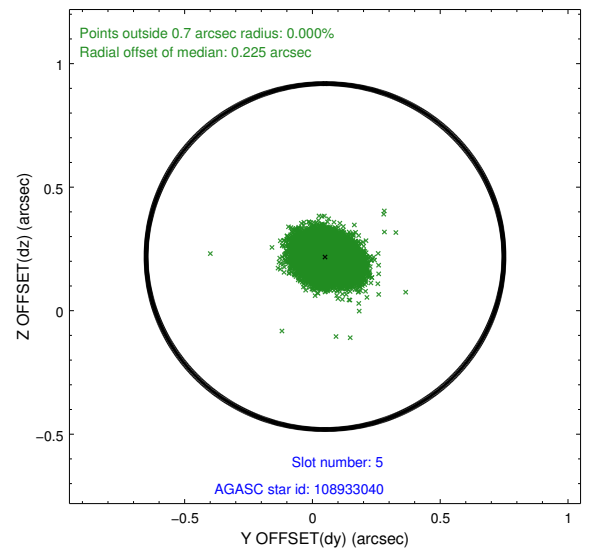
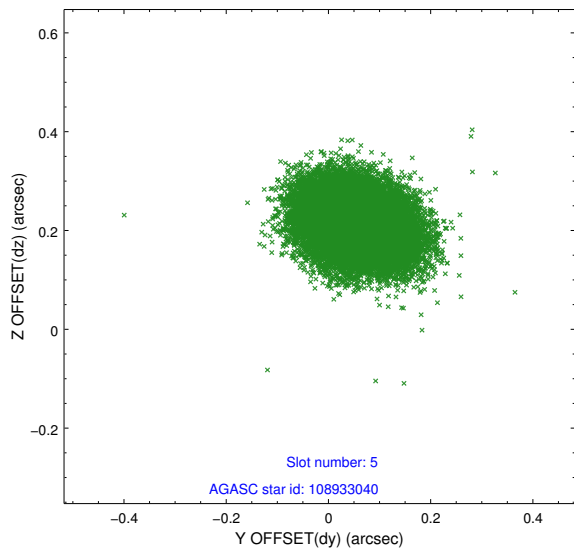
### 2.4.1 Slot 3



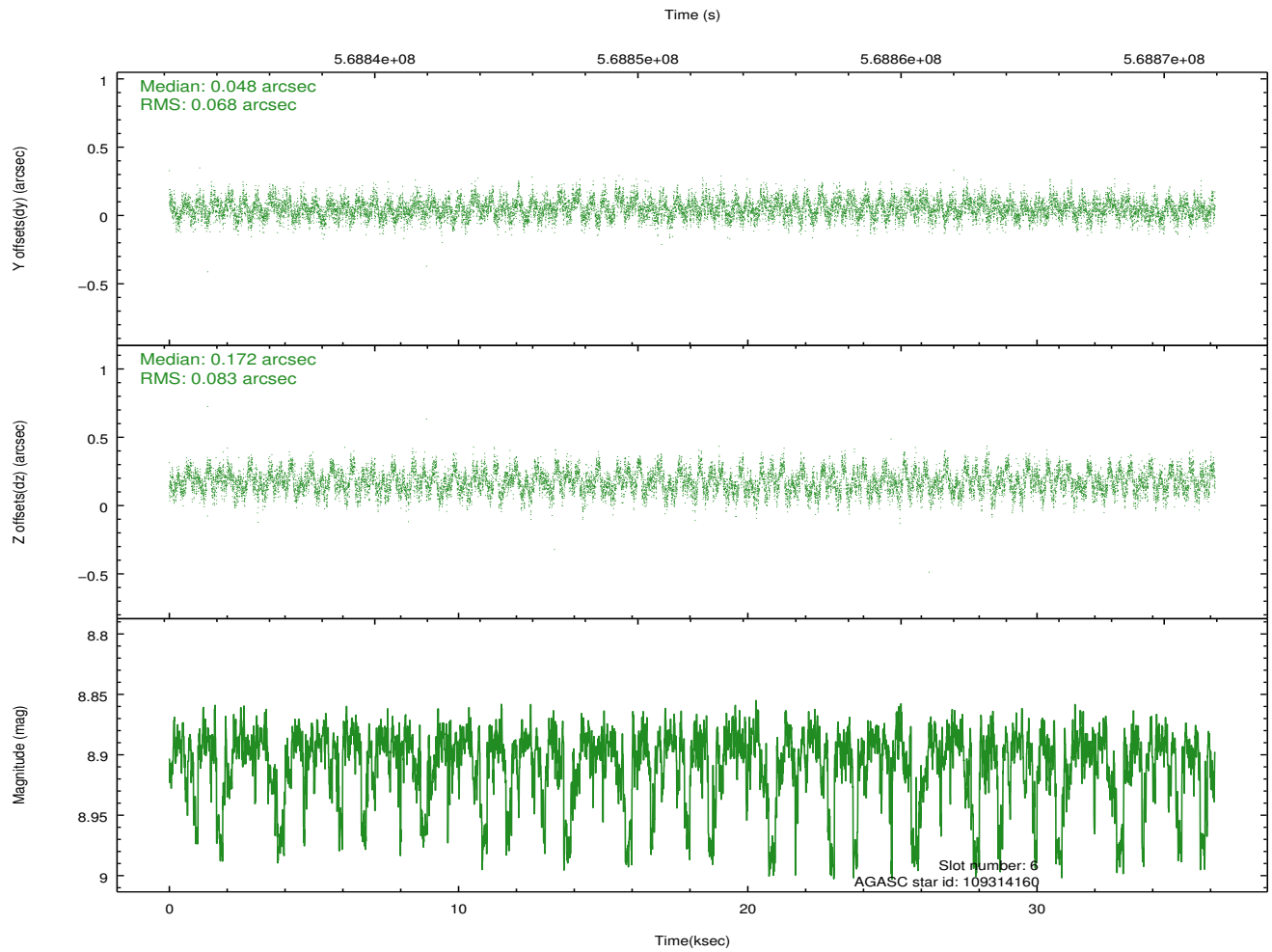
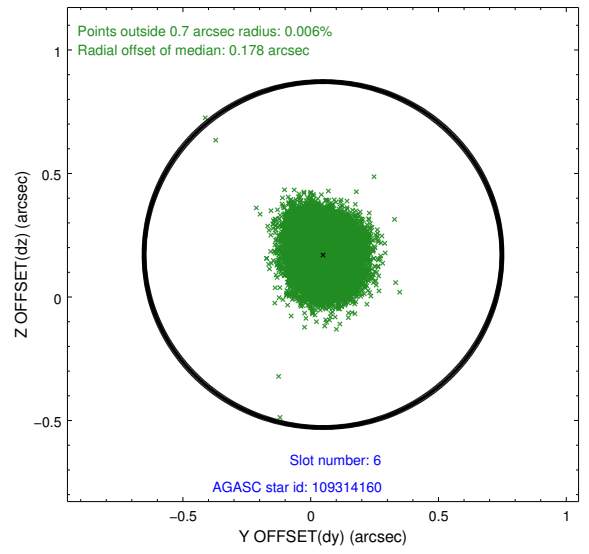
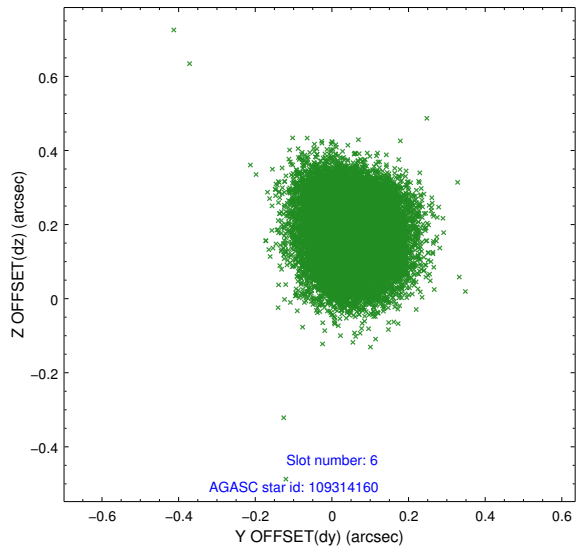
## 2.4.2 Slot 4



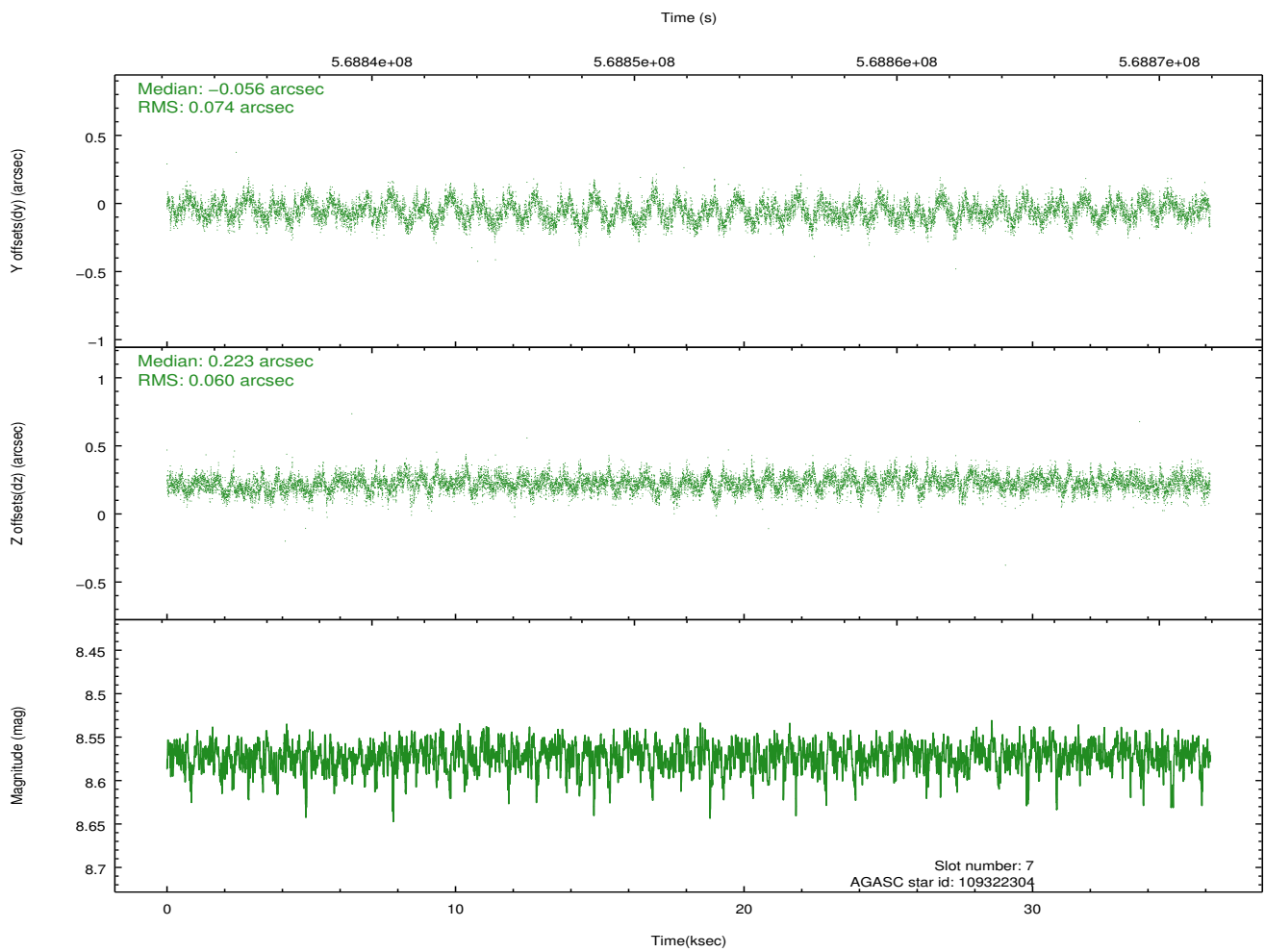
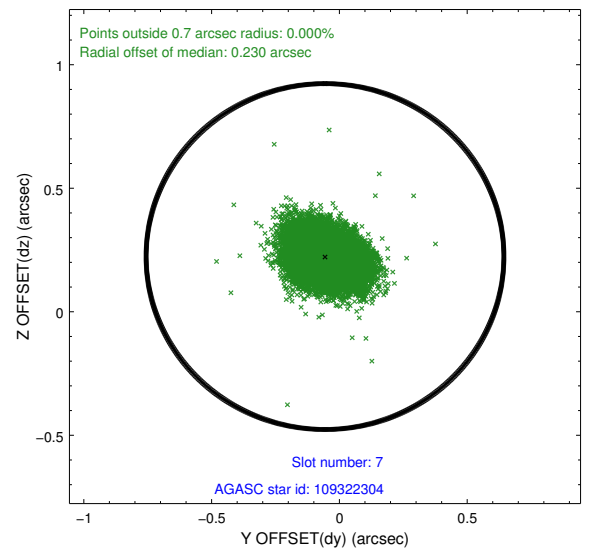
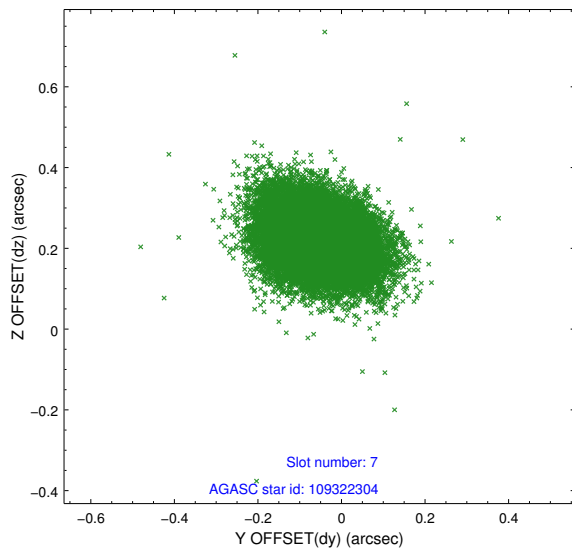
### 2.4.3 Slot 5



### 2.4.4 Slot 6

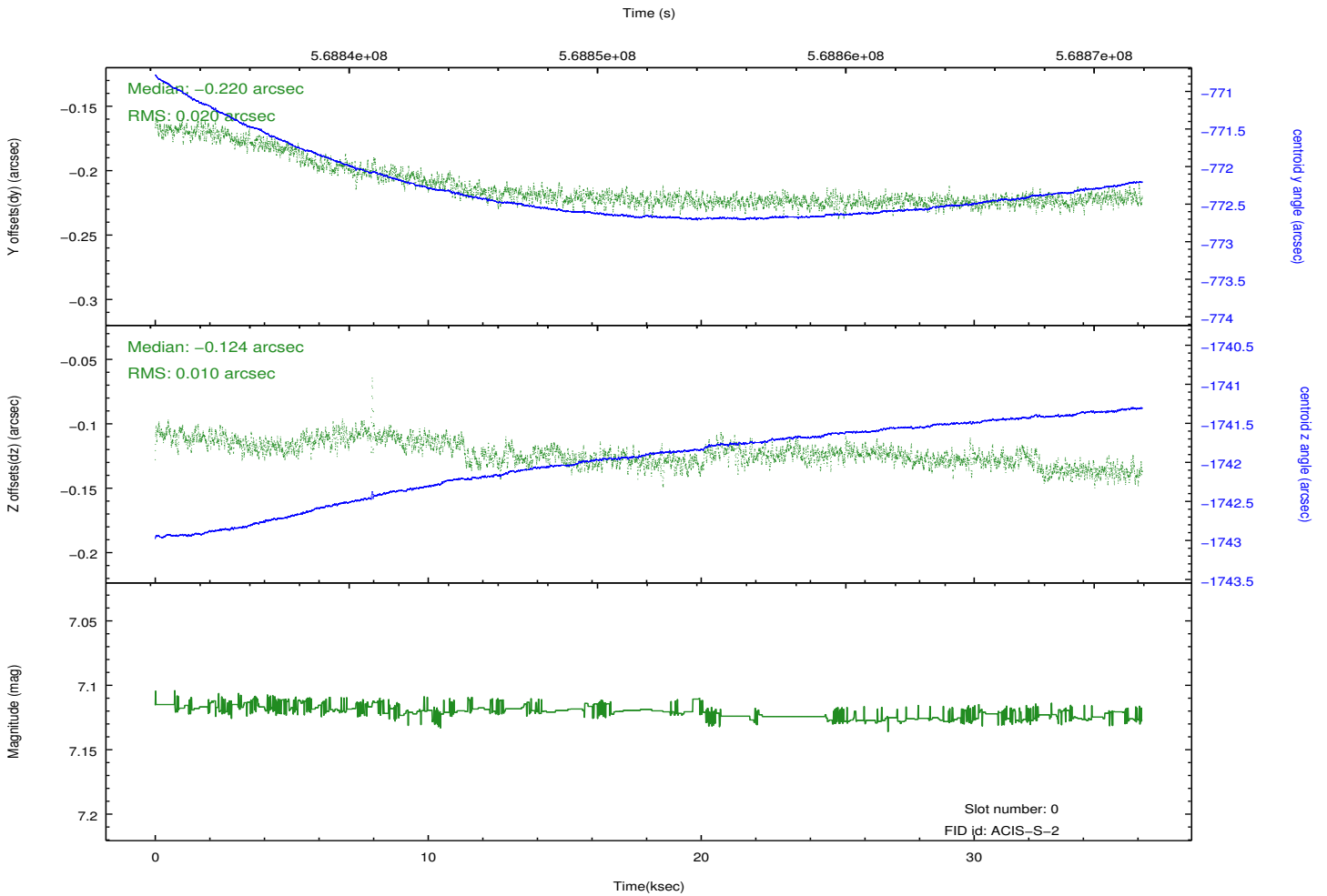
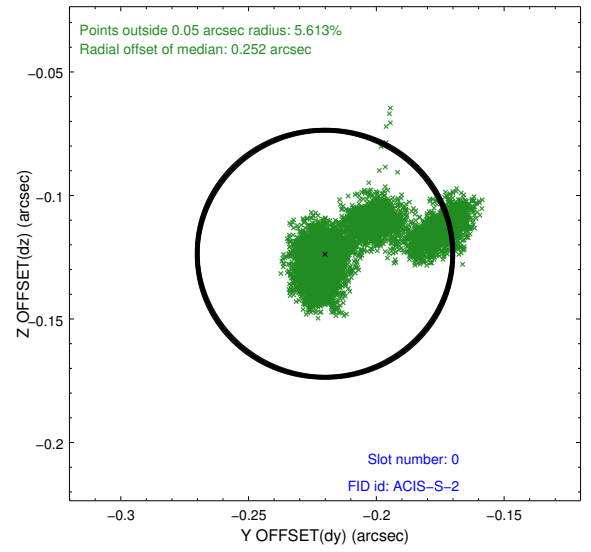
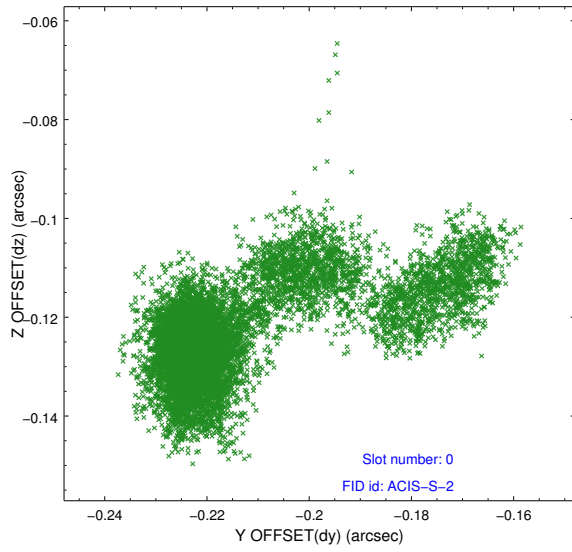


## 2.4.5 Slot 7

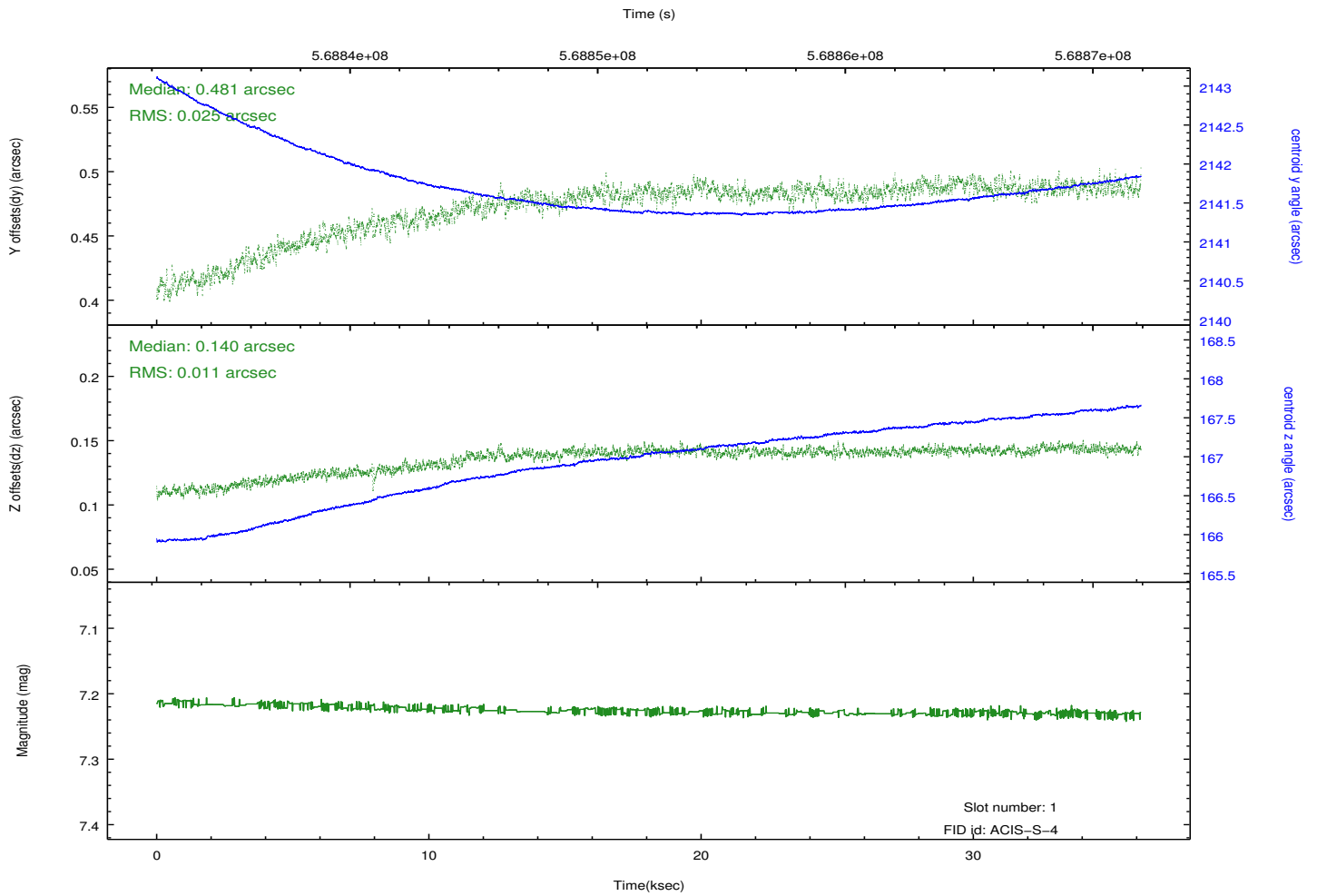
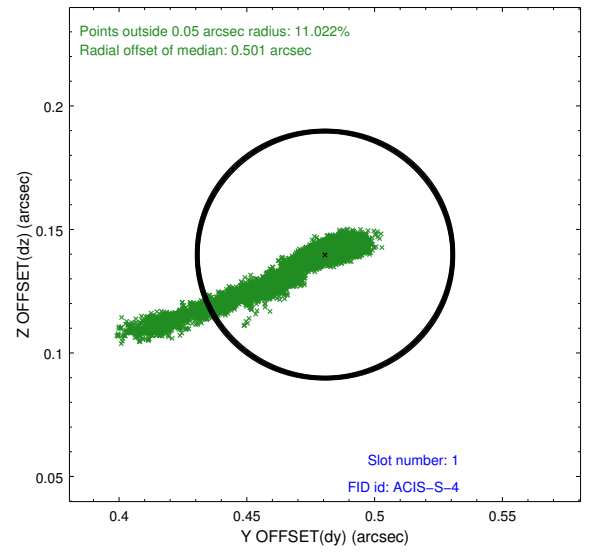
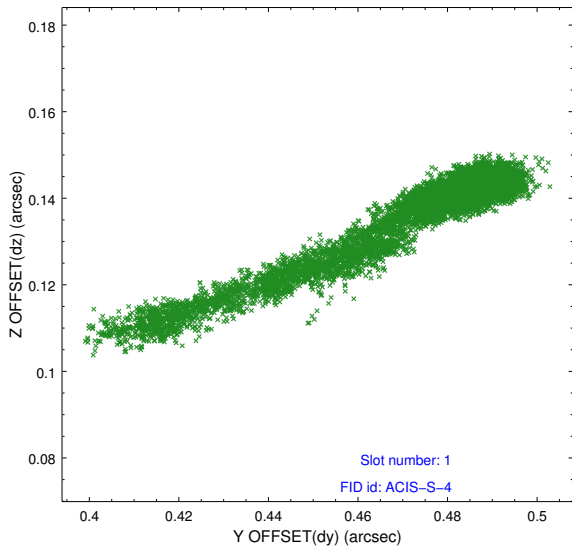


## 2.5 FID Slots

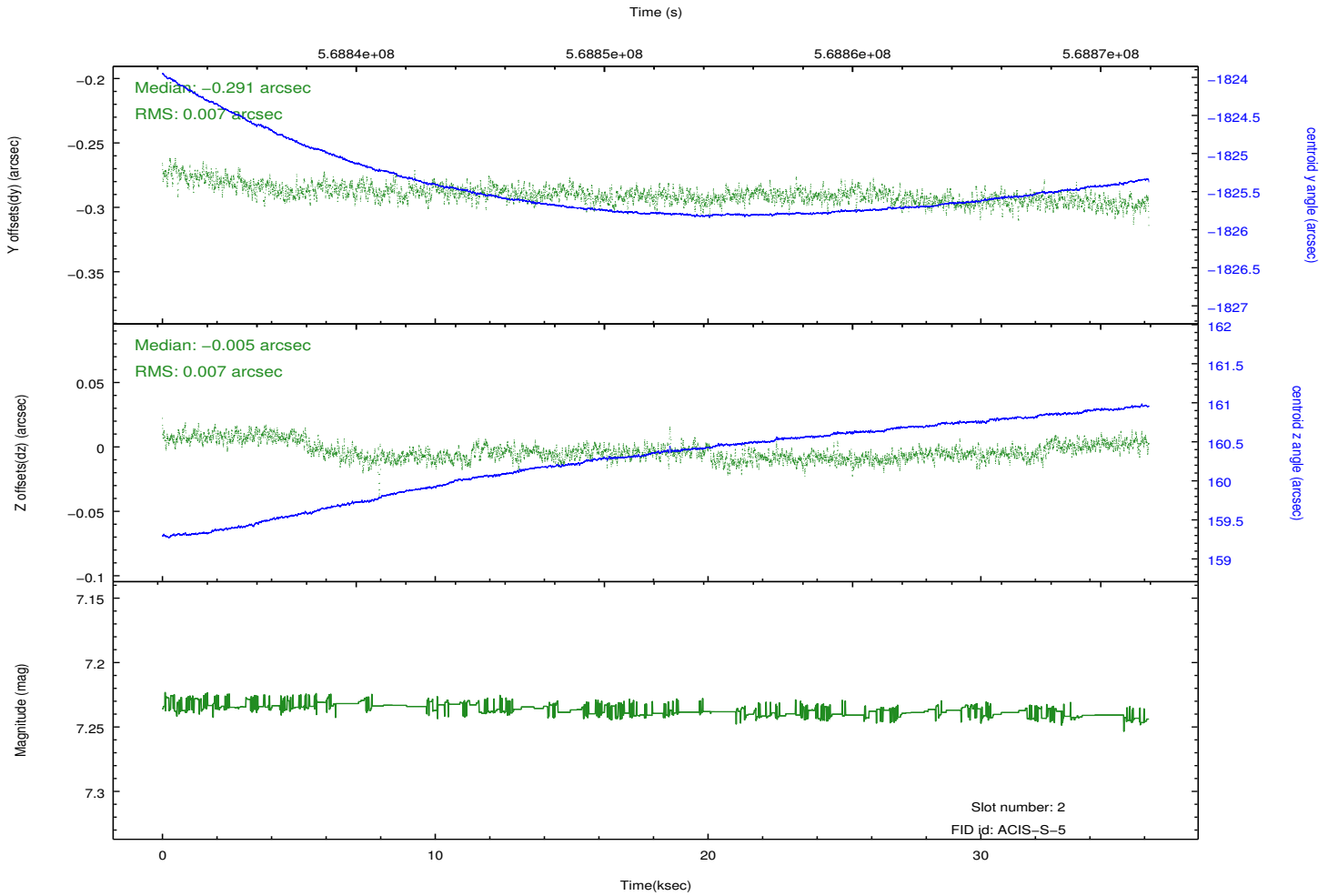
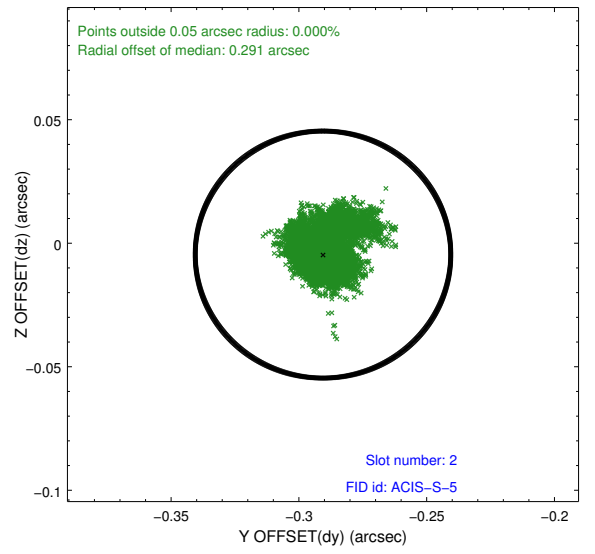
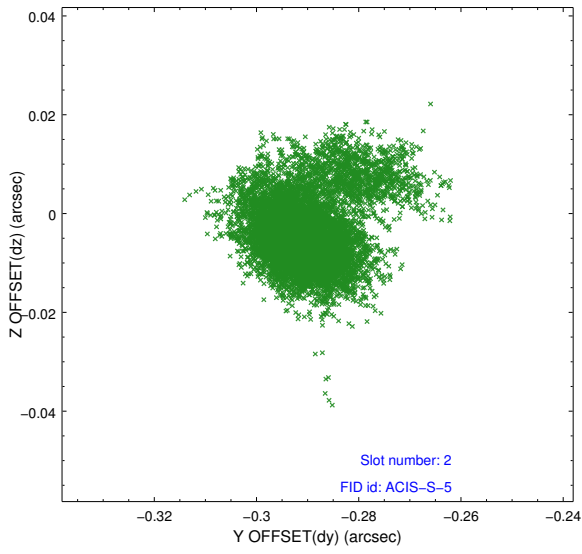
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2018.05.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	36.065400277495

## A.2 Comments

Window preference met.

===

This reprocessing of the data was done to correct corrupted values in the predicted obspar file. There is no change to any other data product, including the event files.