

# V&V Reference Report

## L2 ASCDS Version : 10.7

Observation 21503 - L2 Version 1  
Chandra X-Ray Center

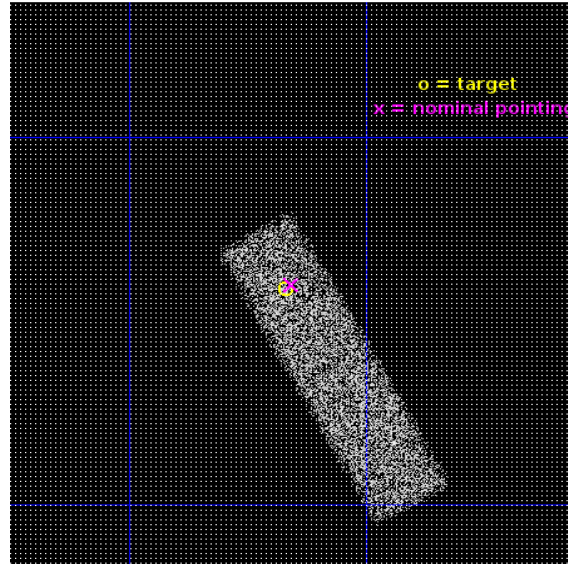
L2 Processing Date : Nov 18 2018

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# 1 Front

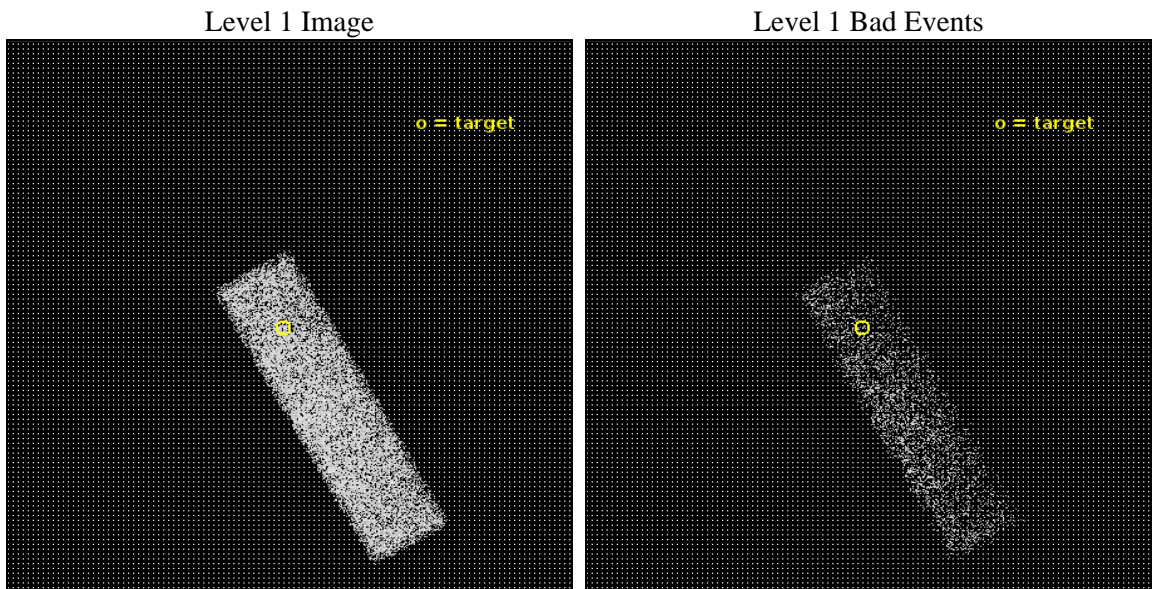
seq_num	703796	Sequence number
obs_id	21503	Observation id
title	Late-Time Emission from Tidal Disruption Flares: Supermassive Black Holes Caught in State Changes?	Proposal title
observer	Nicholas Stone	Principal investigator
object	ASASSN-14ae	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	167.167083	Observer's specified target RA [deg]
dec_targ	34.097833	Observer's specified target Dec [deg]
ra_nom	167.16444844047	Nominal RA [deg]
dec_nom	34.099776531183	Nominal Dec [deg]
roll_nom	60.577773149556	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10060.79940033	Sum of GTIs [s]
livetime	9569.8653099302	Livetime [s]
ontime7	10060.79940033	Sum of GTIs [s]
l2events	11440	Number of level 2 events



## 2 OBI

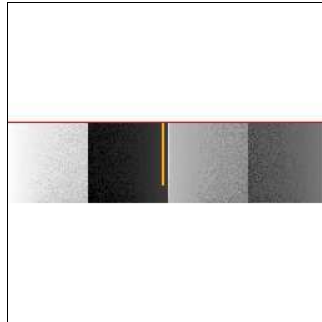
### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	10060.79940033	Sum of GTIs [s]
caldsver	4.8.0.1	&#160	ontime7	10060.79940033	Sum of GTIs [s]
date	2018-11-18T06:18:45	Date and time of file creation	l1events	24743	Number of level 1 events
revision	1	Processing version of data			

### 2.1.4 Events

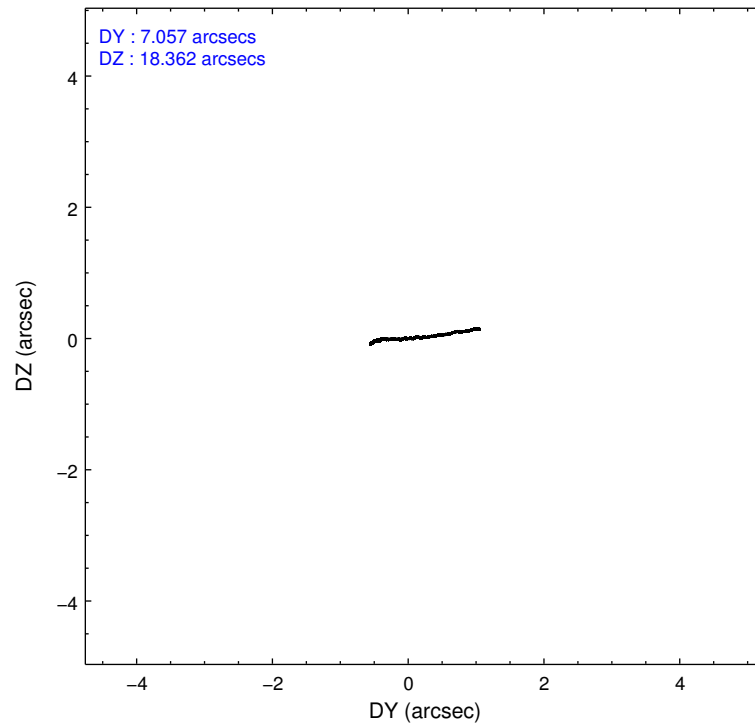
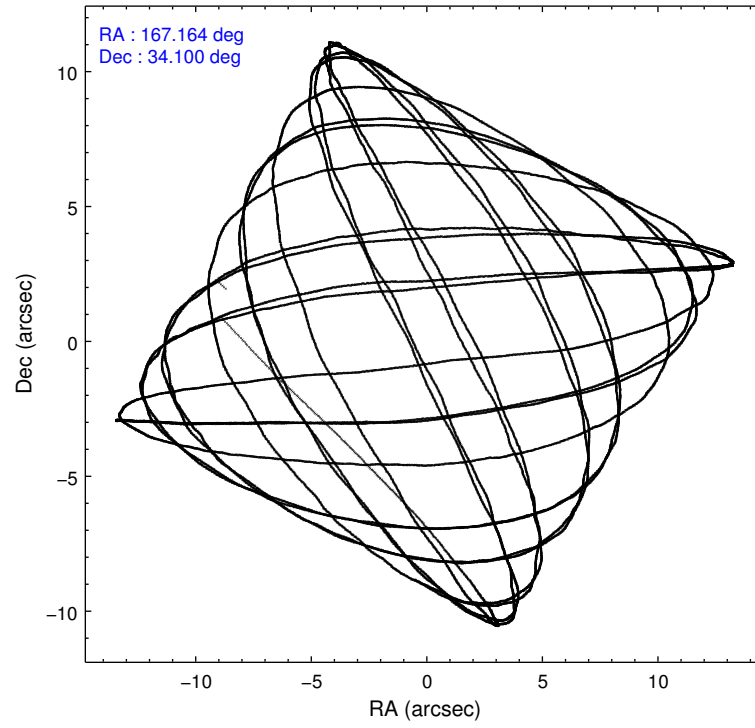
	<b>ccd 7</b>
level 1 events	24743
rejected events	12911
rejected %	52%

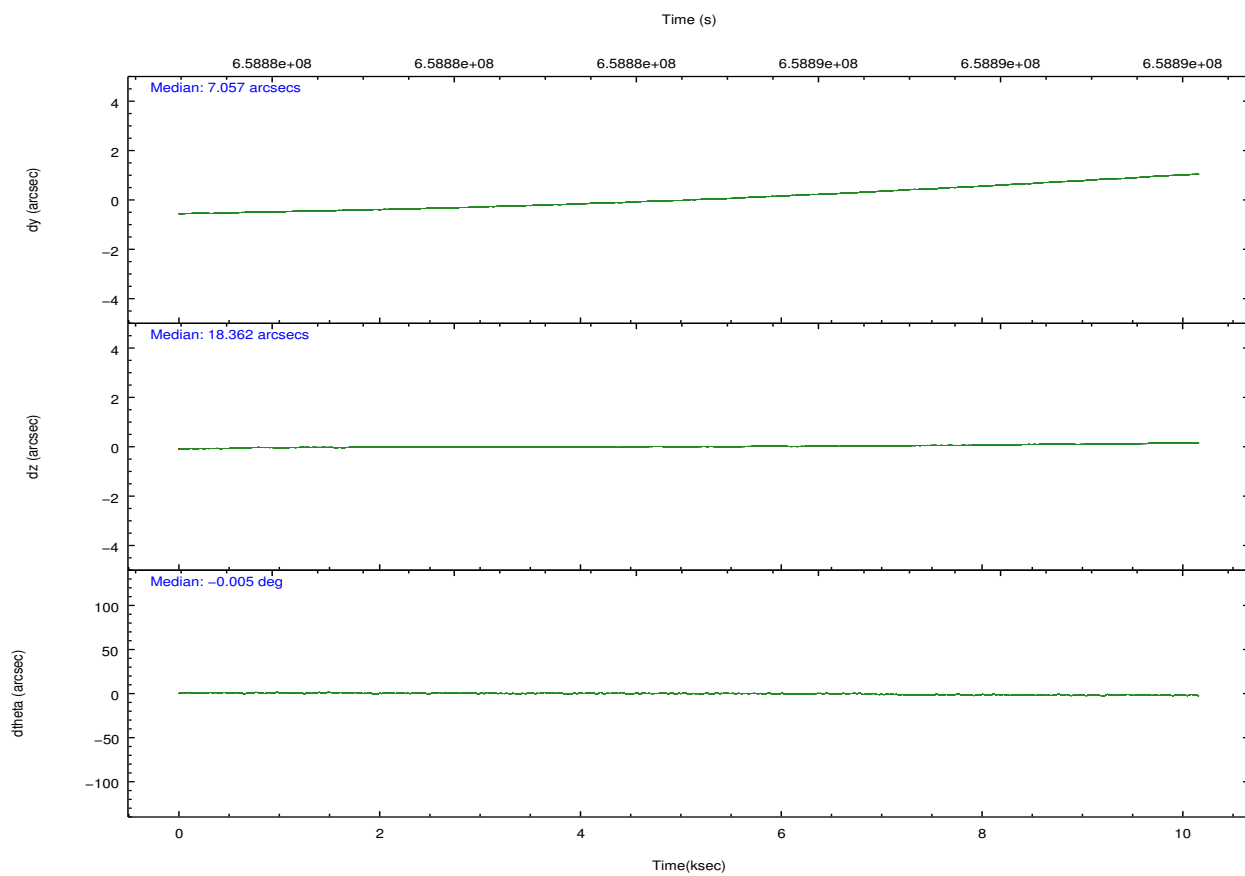
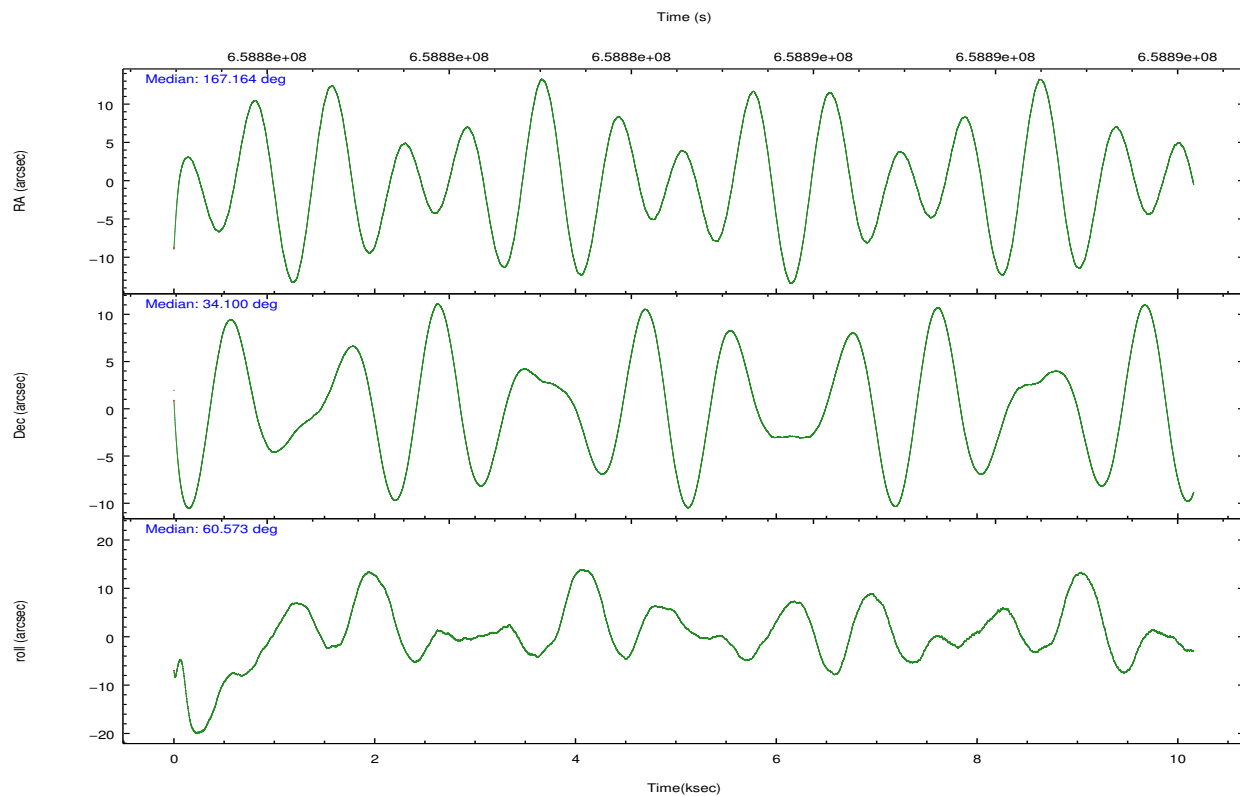
	<b>ccd 7</b>
grade 0 events	1174
	4%
grade 1 events	55
	0%
grade 2 events	2458
	9%
grade 3 events	1316
	5%
grade 4 events	1252
	5%
grade 5 events	2512
	10%
grade 6 events	5632
	22%
grade 7 events	10344
	41%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	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	167.165206	167.1644484404727	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	34.072379	34.09977653118347	Subarray start row	385	385
[deg] Pointing Roll	60.420734	60.57777314955599	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	658879636.184000	658878586.21009			
Observation start date	2018-11-17T22:06:07	2018-11-17T21:49:46			
[s] Observation end time (MET)	658889636.184000	658890541.2983			
Observation end date	2018-11-18T00:52:47	2018-11-18T01:09:01			
Read mode	TIMED	TIMED			

## 2.3 Aspect



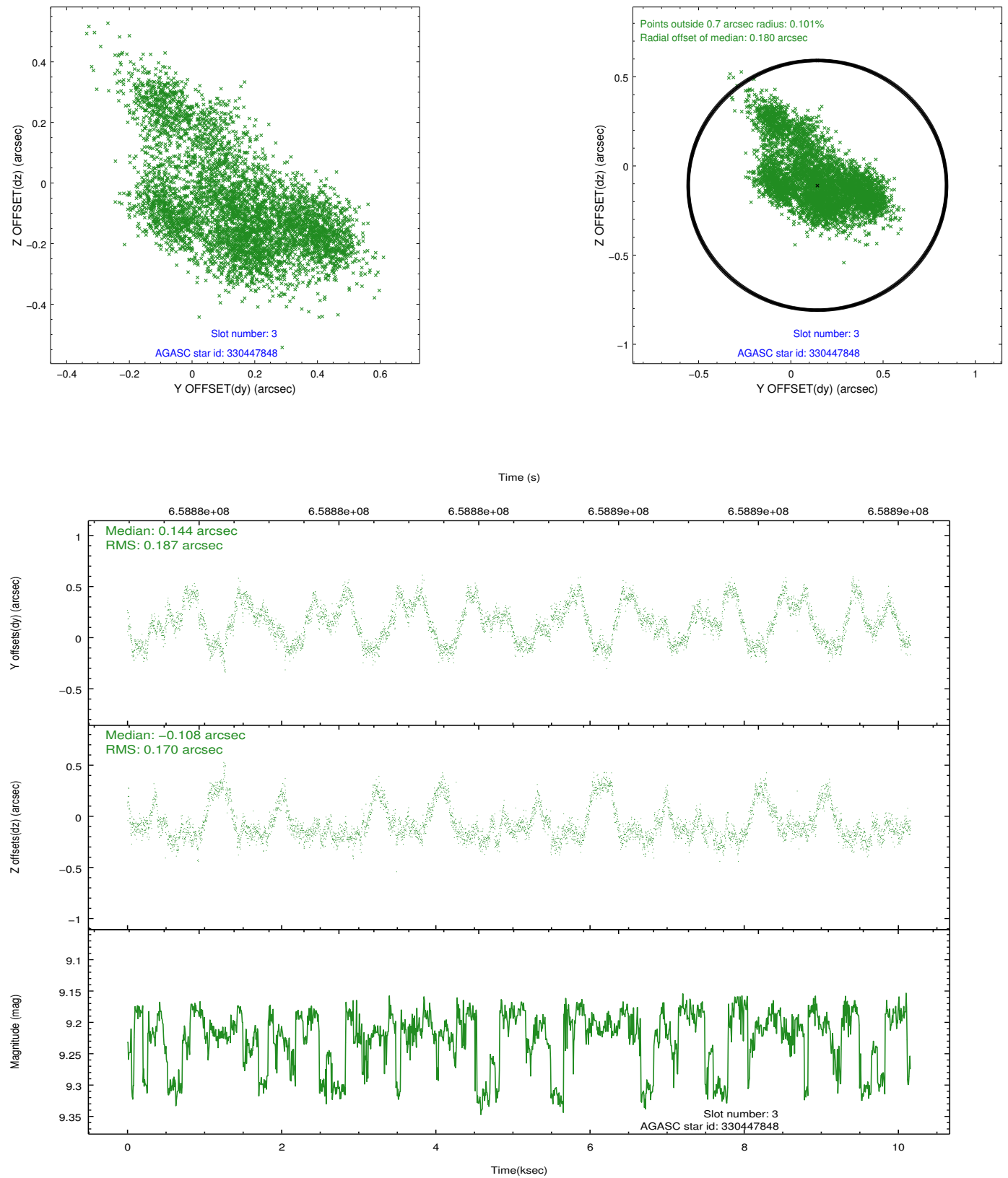


Slot Statistics

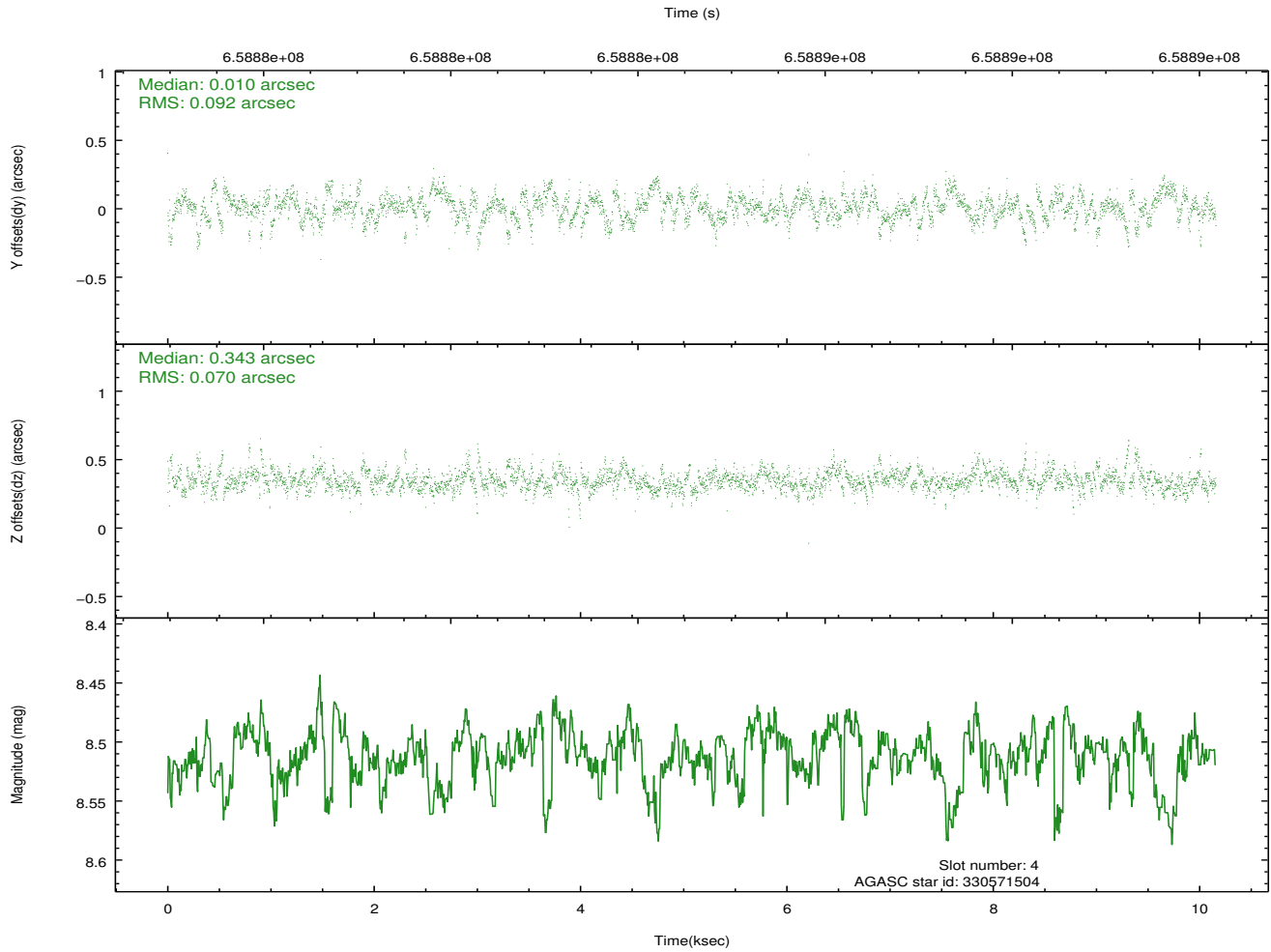
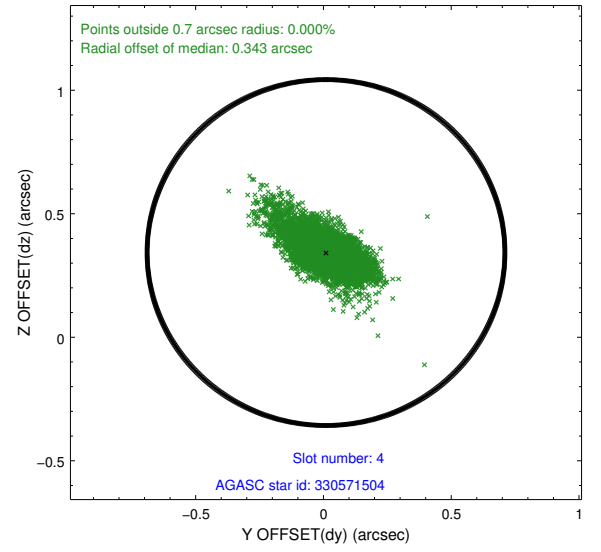
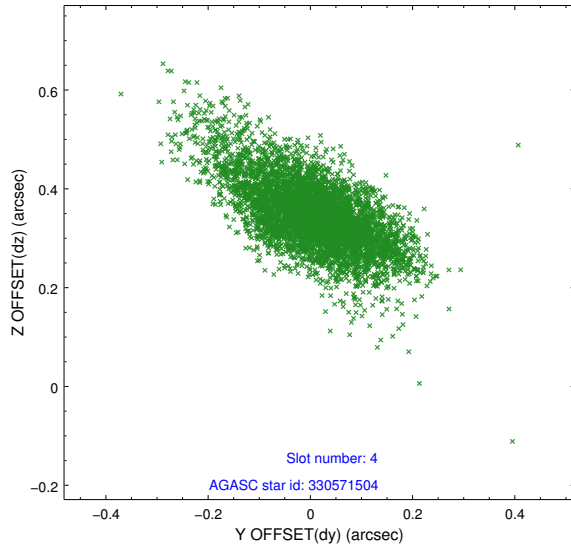
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.98	2478	1.000	-0.234	-0.135	0.011	0.017	0.000000	0.000000	-760.11	-1739
1	FID		ACIS-S-4	7.11	2478	1.000	0.494	0.149	0.010	0.030	0.000000	0.000000	2153.63	168
2	FID		ACIS-S-5	7.11	2478	1.000	-0.290	-0.006	0.018	0.040	0.000000	0.000000	-1812.37	162
3	GUIDE	used	330447848	9.22	4952	1.000	0.144	-0.108	0.267	0.455	166.346173	33.797004	-2062.94	1646
4	GUIDE	used	330571504	8.51	4955	1.000	0.010	0.343	0.113	0.219	168.096605	34.275584	2014.80	-2041
5	GUIDE	used	330571952	9.07	4952	1.000	-0.315	-0.332	0.159	0.246	167.140757	34.717213	1983.18	1209
6	GUIDE	used	330572656	8.98	4950	1.000	0.253	0.338	0.109	0.182	167.170618	33.871957	-618.31	-369
7	GUIDE	used	330573488	8.98	4952	1.000	-0.092	-0.278	0.149	0.225	167.232964	34.303184	821.52	234

## 2.4 Star Slots

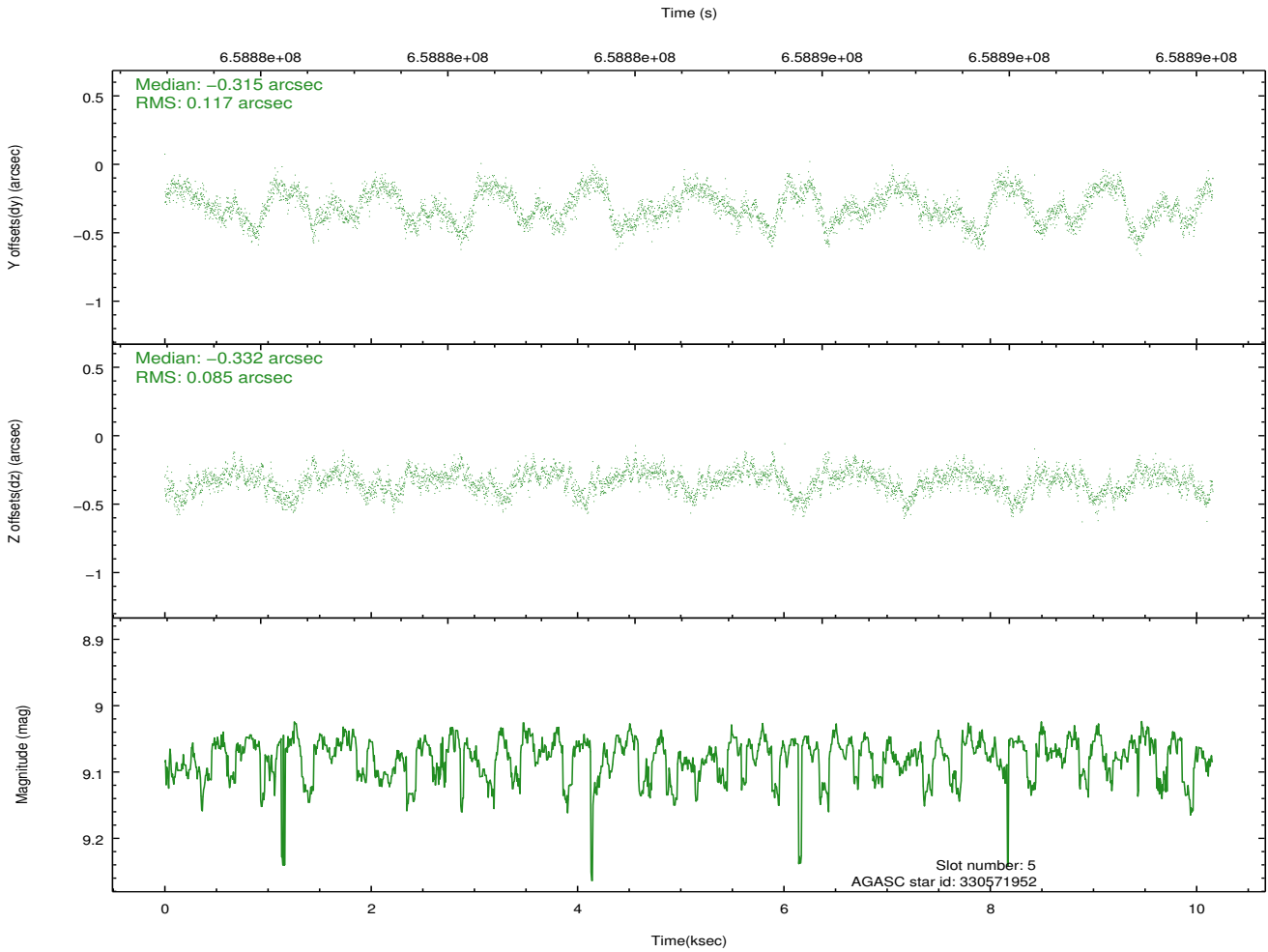
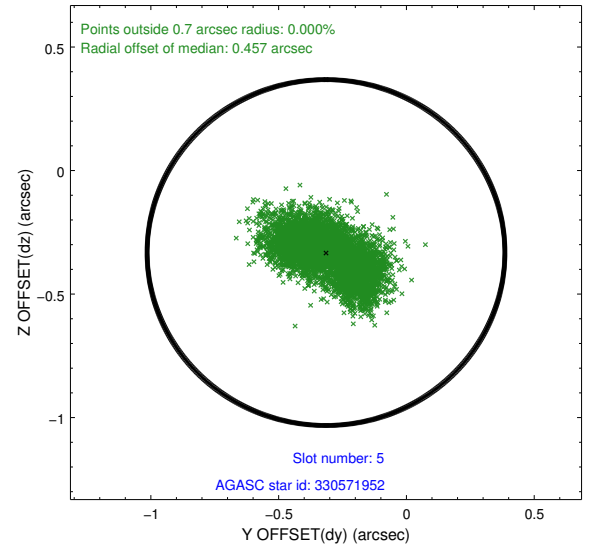
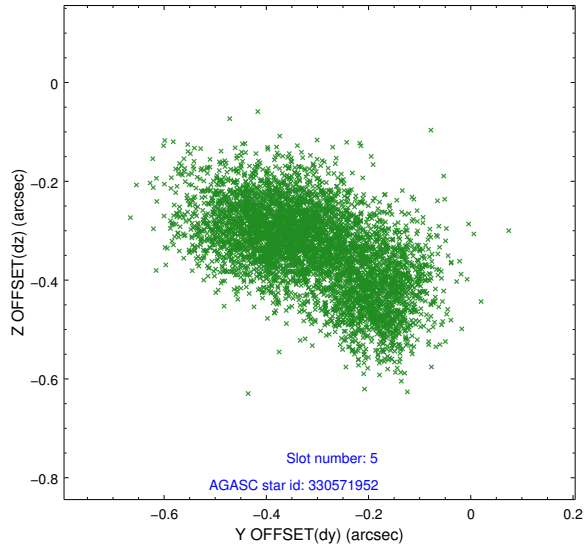
### 2.4.1 Slot 3



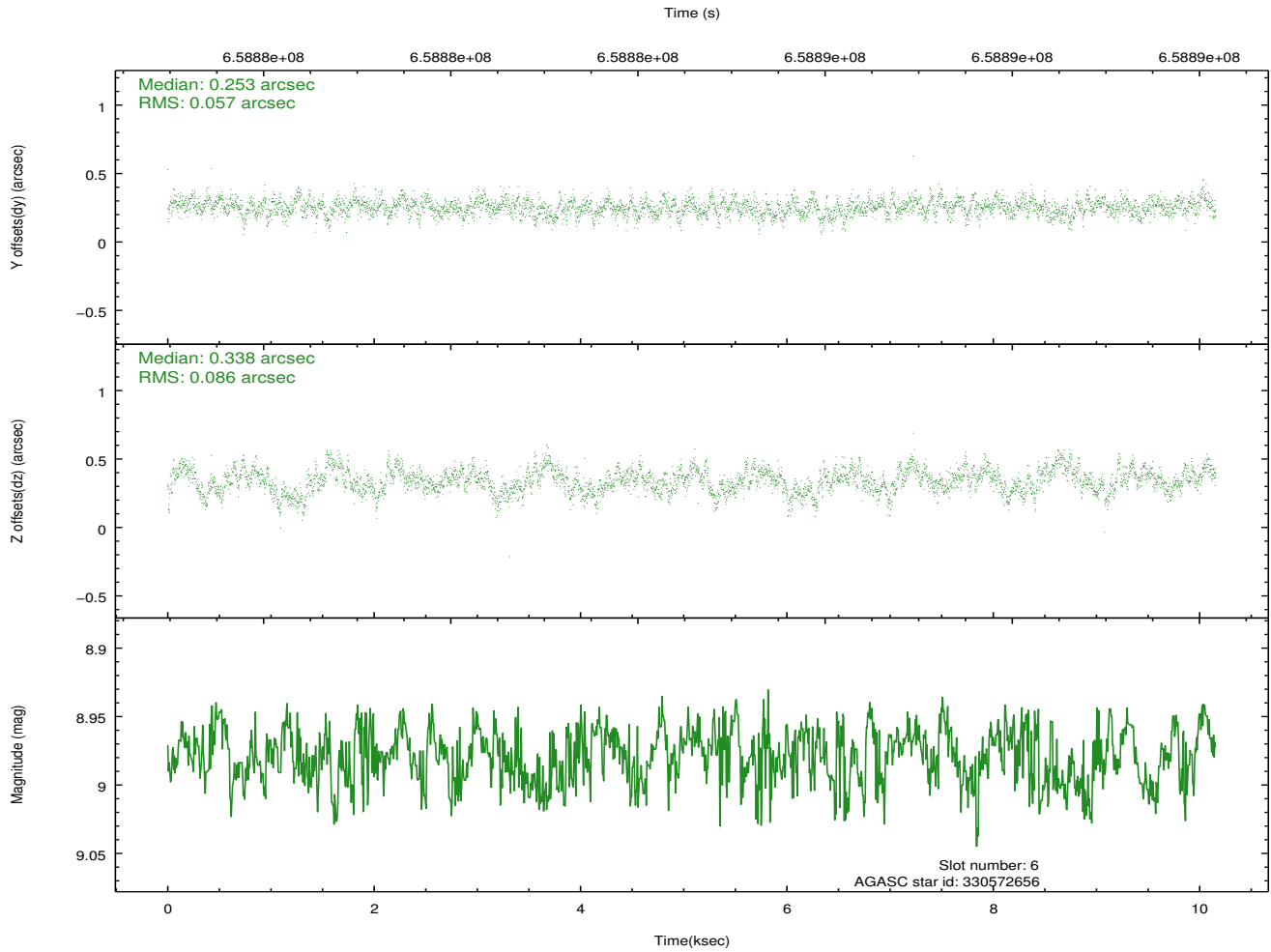
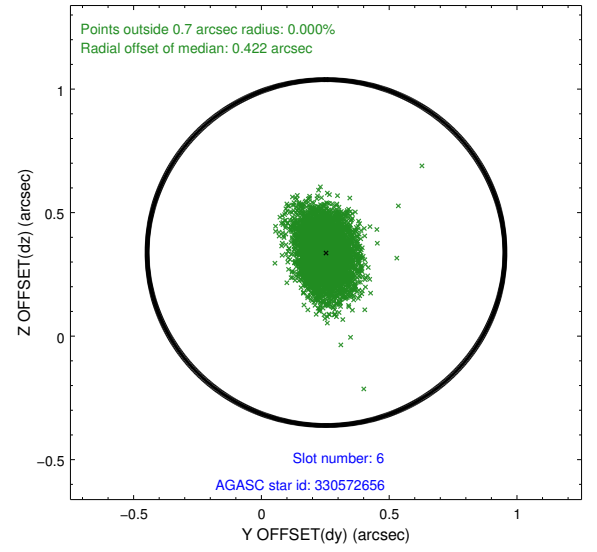
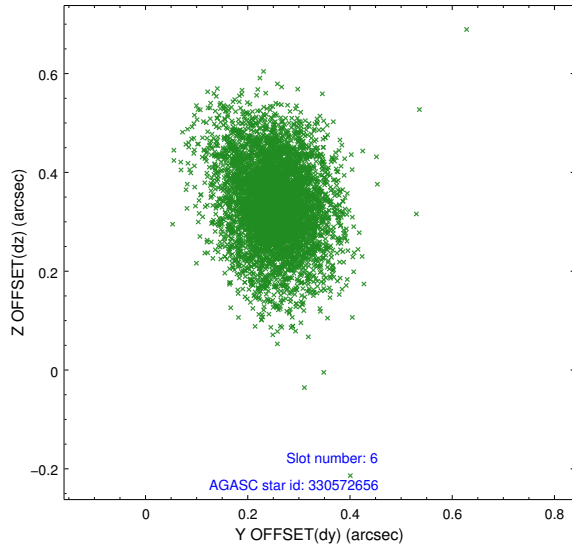
## 2.4.2 Slot 4



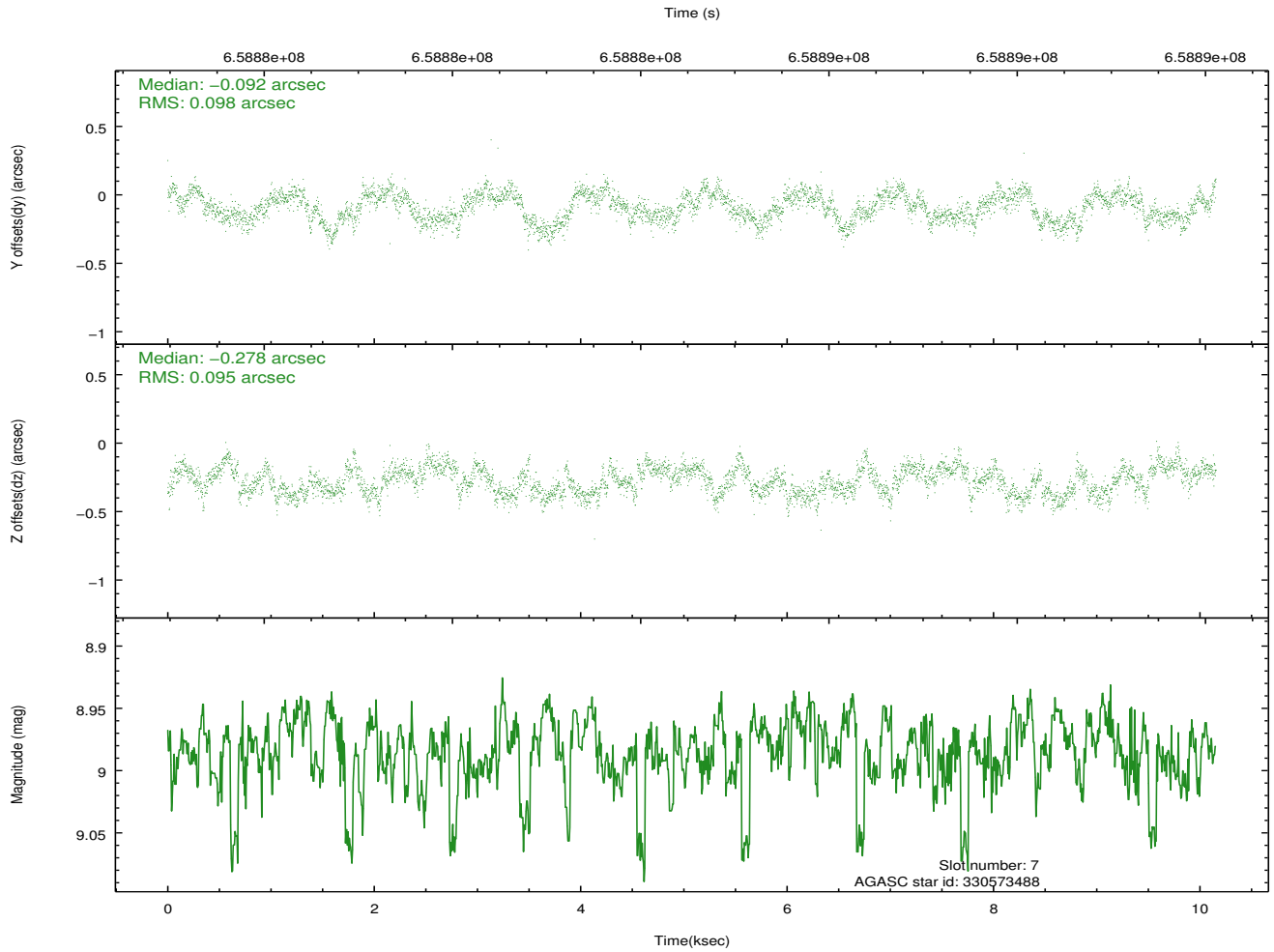
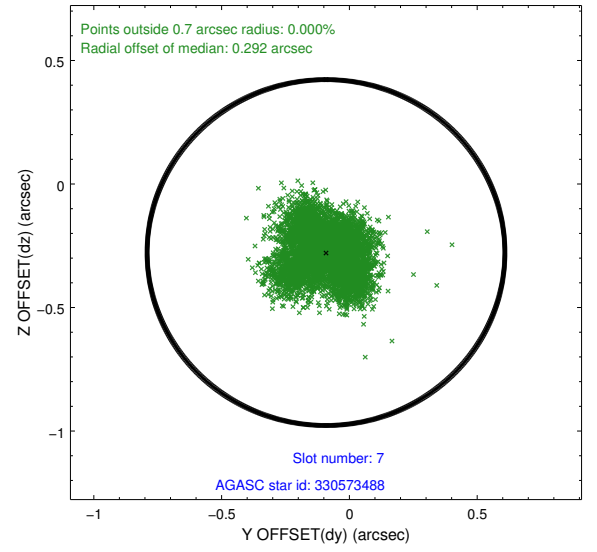
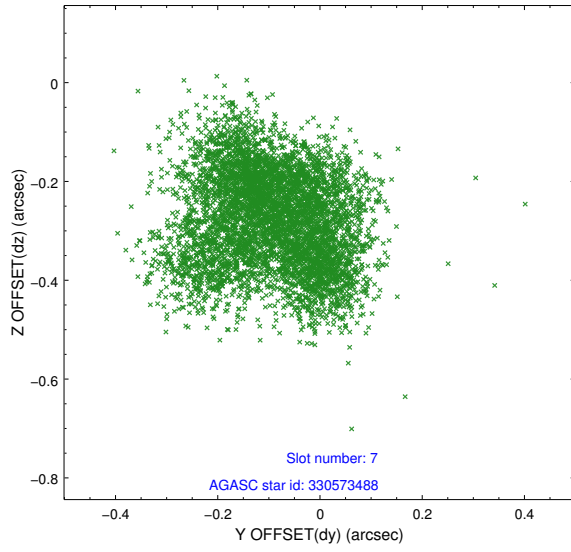
### 2.4.3 Slot 5



## 2.4.4 Slot 6

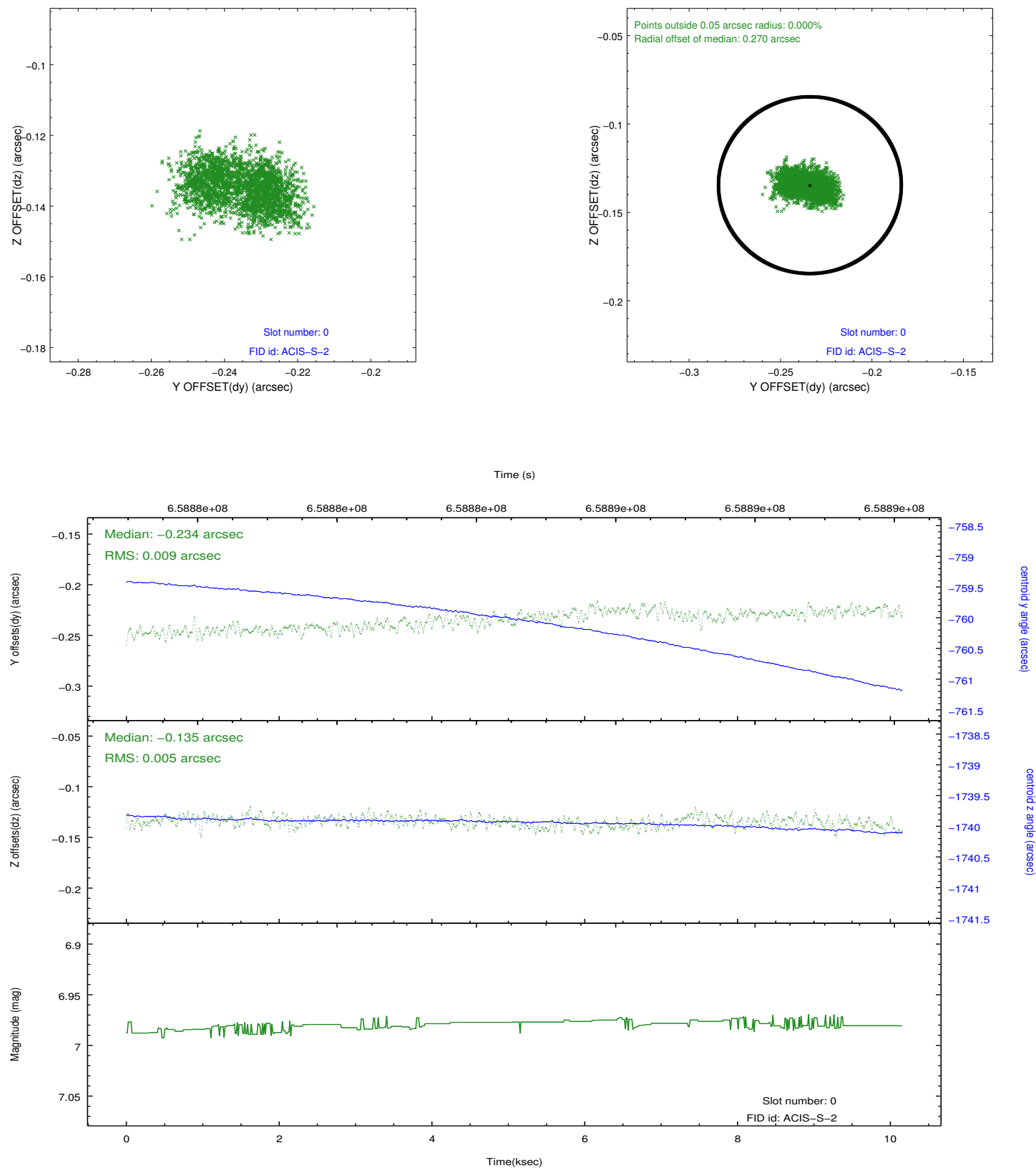


## 2.4.5 Slot 7

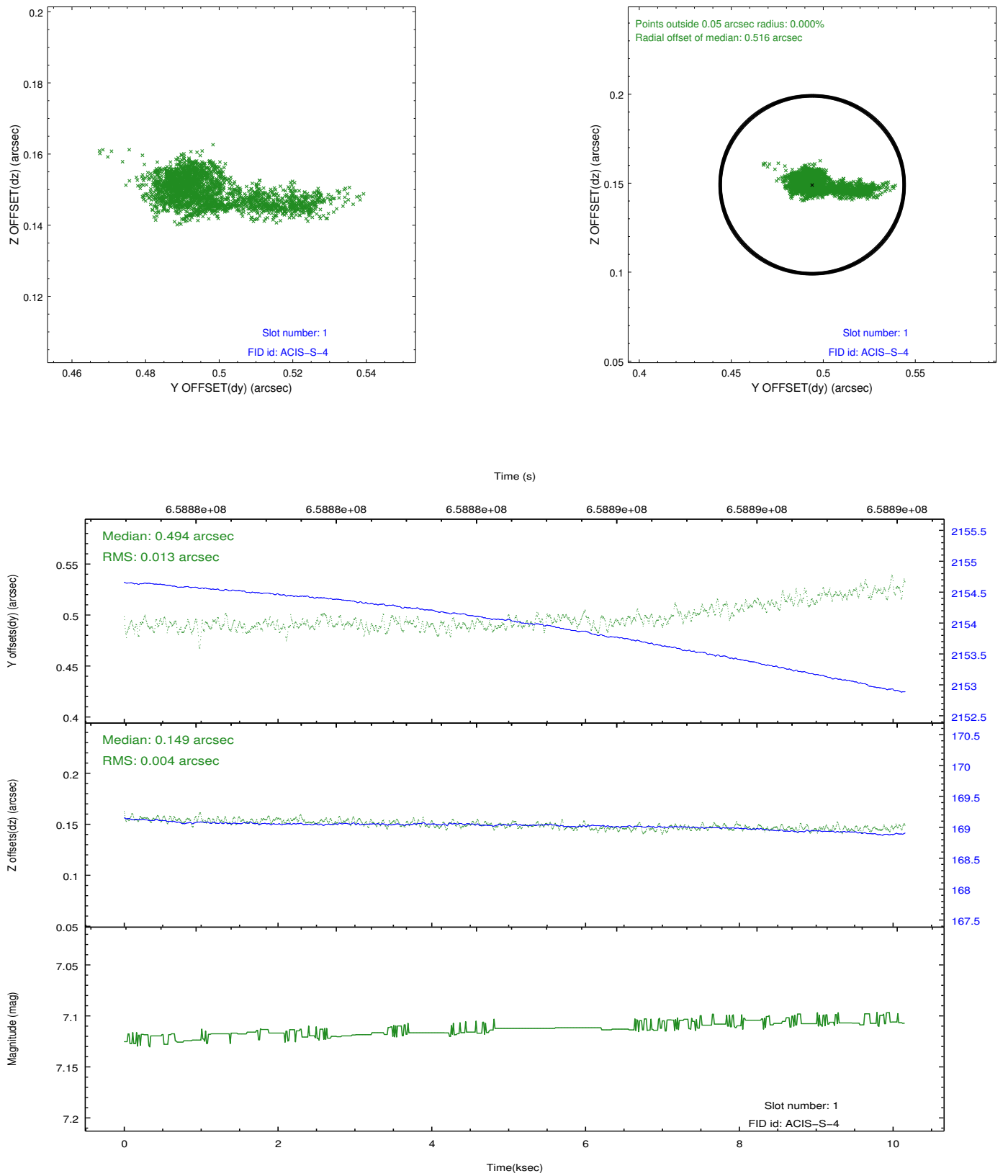


## 2.5 FID Slots

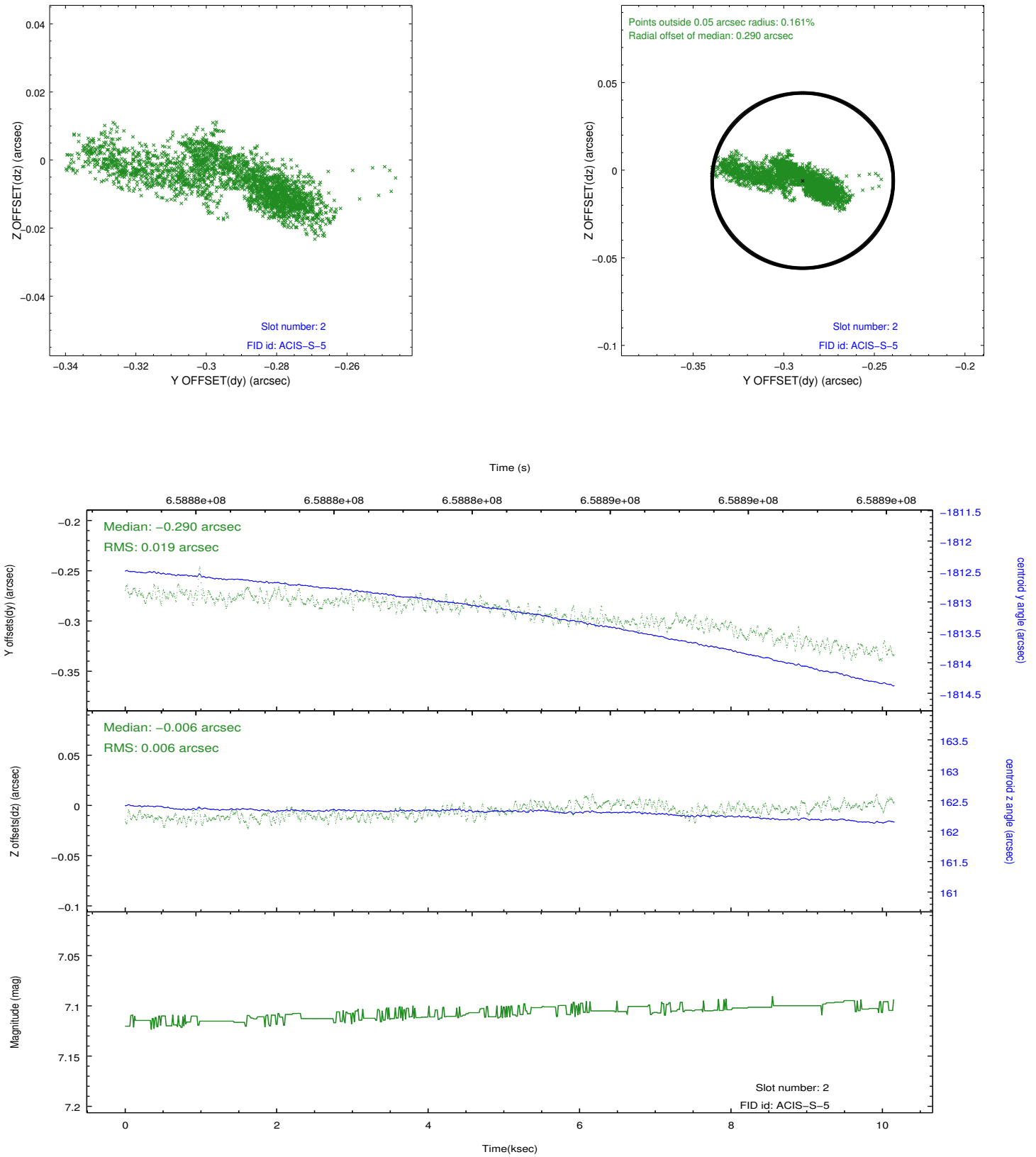
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2018.11.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.06079940033

### A.2 Comments