

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 5405 - L2 Version 4  
Chandra X-Ray Center

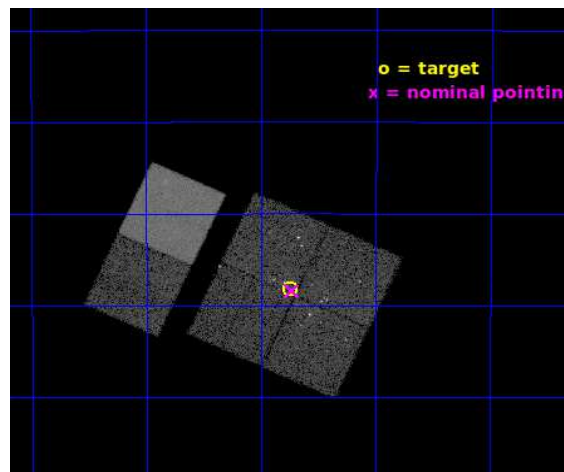
L2 Processing Date : Oct 9 2020

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# 1 Front

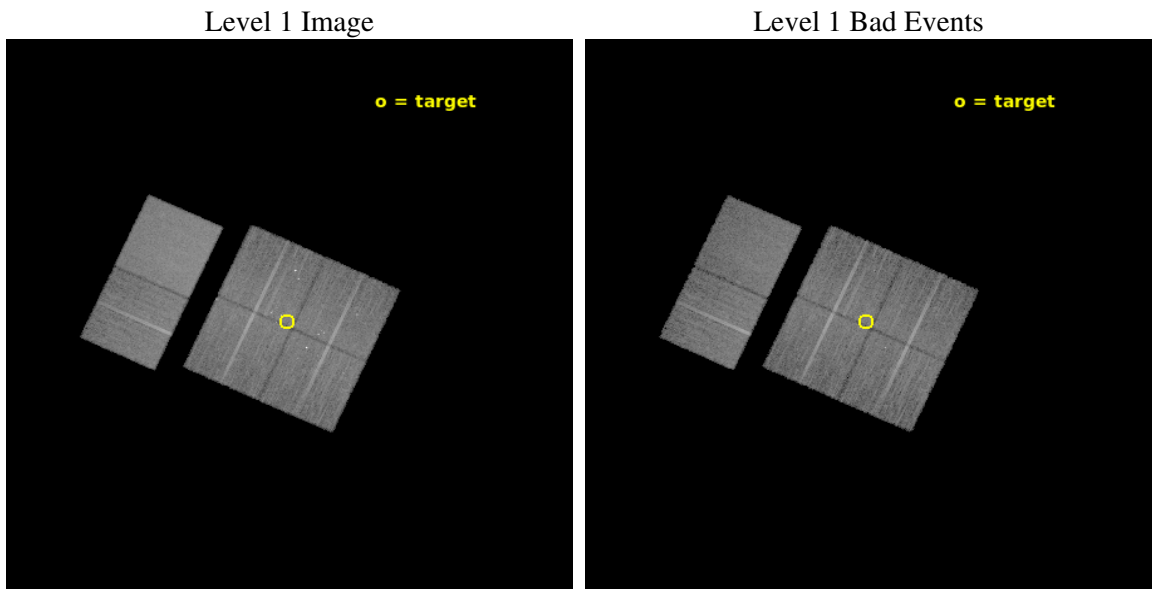
seq_num	200339	Sequence number
obs_id	5405	Observation id
title	Simultaneous X-ray and Radio Monitoring of YSO Activity in the Coronet Cluster	Proposal title
observer	Dr Jan Forbrich	Principal investigator
object	Coronet Cluster	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	285.4375	Observer's specified target RA [deg]
dec_targ	-36.969167	Observer's specified target Dec [deg]
ra_nom	285.43296125159	Nominal RA [deg]
dec_nom	-36.973290257959	Nominal Dec [deg]
roll_nom	294.68250140699	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15174.399943471	Sum of GTIs [s]
livetime	14982.25255446	Livetime [s]
ontime0	15174.399943471	Sum of GTIs [s]
ontime1	15174.399943471	Sum of GTIs [s]
ontime2	15174.399943471	Sum of GTIs [s]
ontime3	15174.399943471	Sum of GTIs [s]
ontime6	15174.399943471	Sum of GTIs [s]
ontime7	15174.399943471	Sum of GTIs [s]
l2events	124211	Number of level 2 events



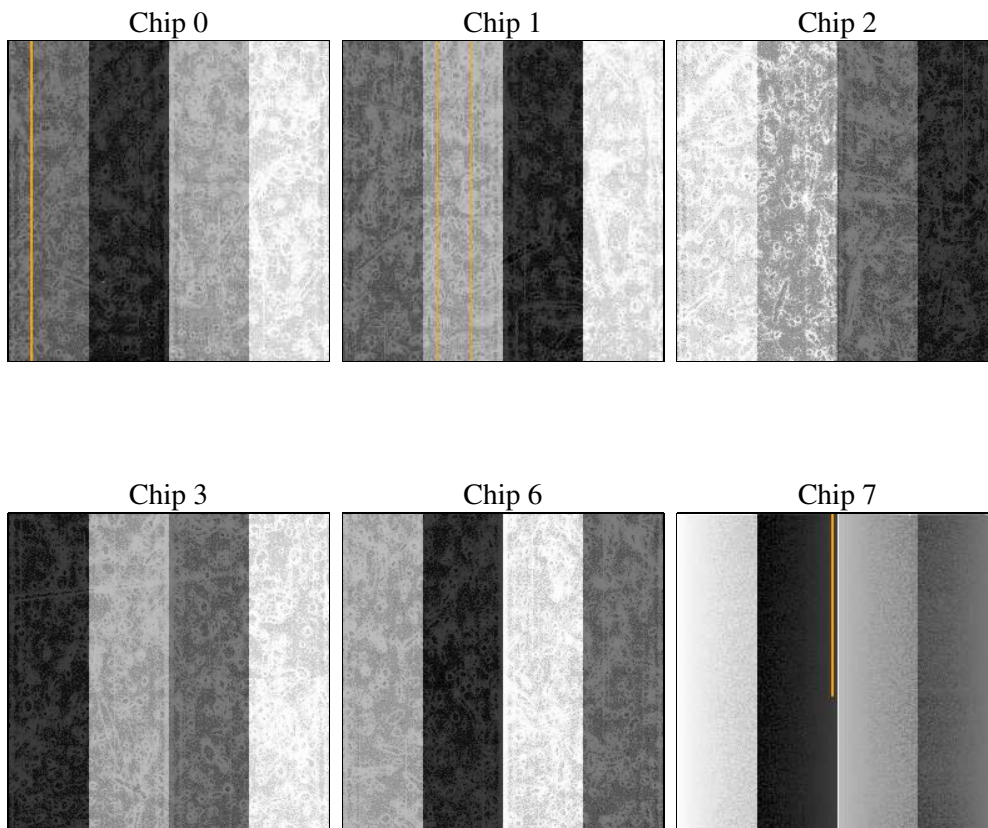
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15174.399943471	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime0	15174.399943471	Sum of GTIs [s]
date	2020-10-09T18:46:01	Date and time of file creation	ontime1	15174.399943471	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	15174.399943471	Sum of GTIs [s]
			ontime3	15174.399943471	Sum of GTIs [s]
			ontime6	15174.399943471	Sum of GTIs [s]
			ontime7	15174.399943471	Sum of GTIs [s]
			l1events	695684	Number of level 1 events

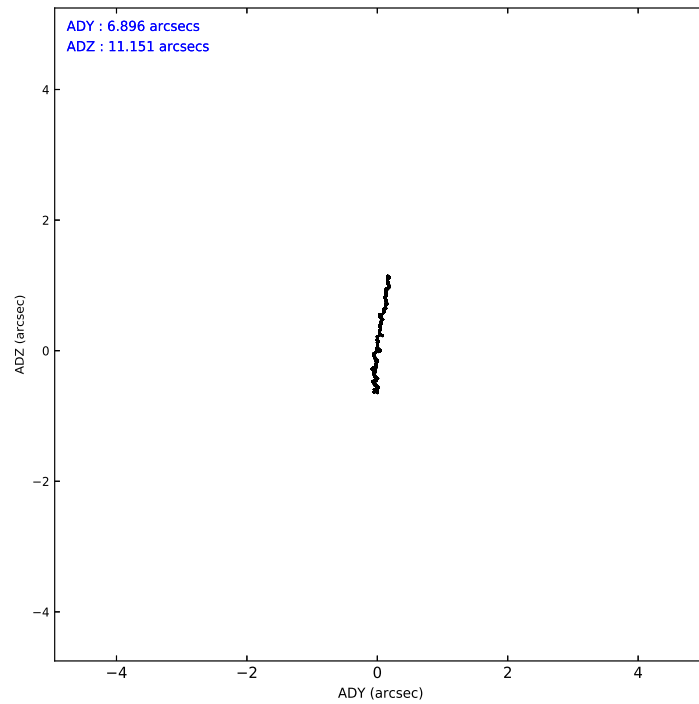
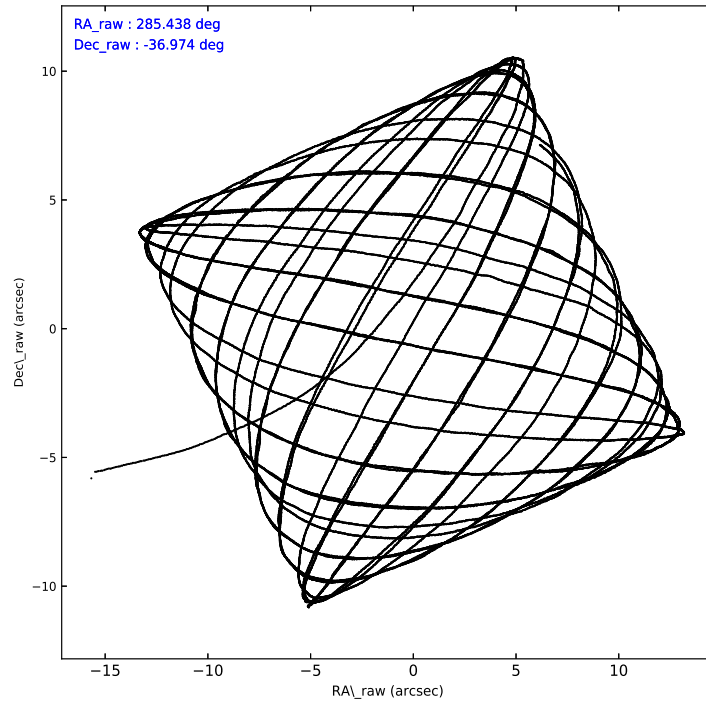
### 2.1.4 Events

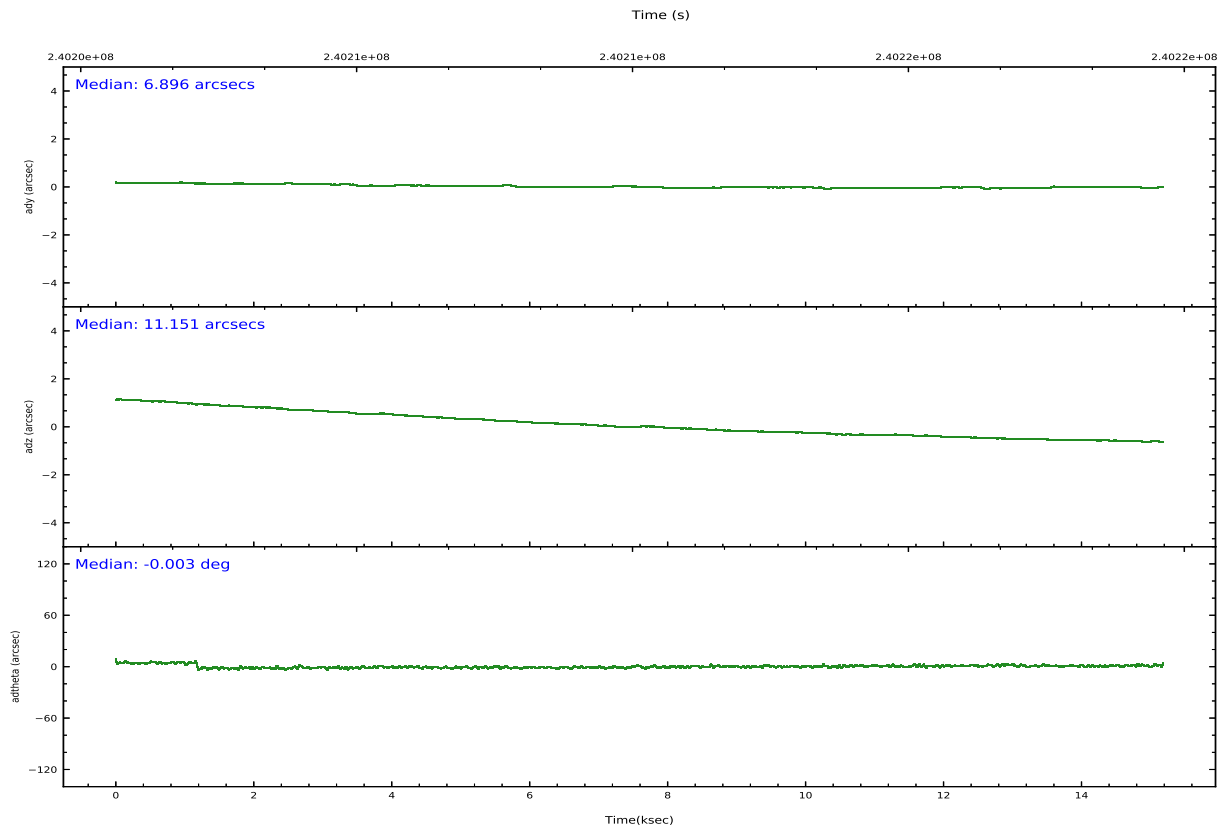
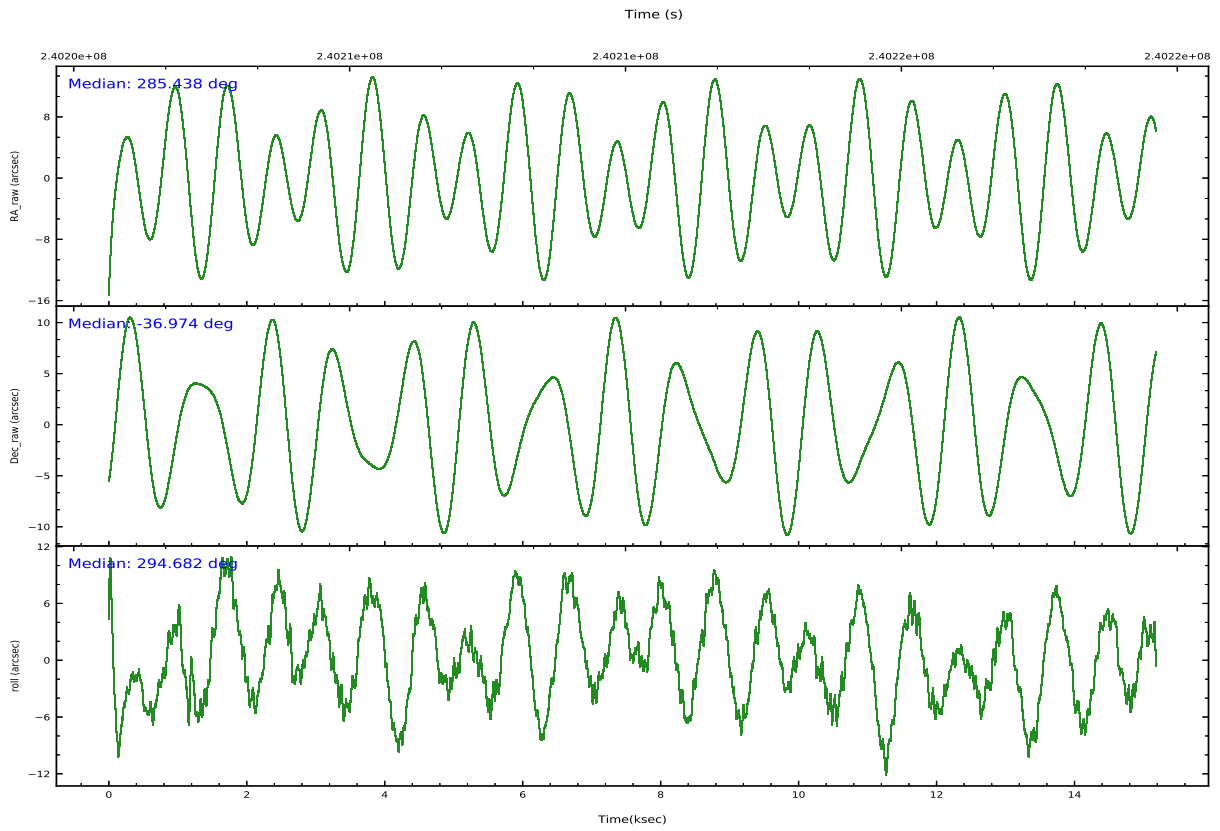
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	108420	104356	108004	110412	113016	151476	grade 0 events	8548	6430	5685	8675	4916	5361
rejected events	91676	89299	95177	93727	100081	90018		7%	6%	5%	7%	4%	3%
rejected %	84%	85%	88%	84%	88%	59%	grade 1 events	202	63	74	124	63	160
								0%	0%	0%	0%	0%	0%
							grade 2 events	3188	3156	2622	2899	2781	12257
								2%	3%	2%	2%	2%	8%
							grade 3 events	1397	1379	1238	1417	1323	5327
								1%	1%	1%	1%	1%	3%
							grade 4 events	1310	1419	1205	1391	1256	5422
								1%	1%	1%	1%	1%	3%
							grade 5 events	4556	4778	4244	4936	5438	14418
								4%	4%	3%	4%	4%	9%
							grade 6 events	2423	2765	2167	2416	2744	33496
								2%	2%	2%	2%	2%	22%
							grade 7 events	86796	84366	90769	88554	94495	75035
								80%	80%	84%	80%	83%	49%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	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
[deg] Pointing RA	285.409628	285.43296125159	Subarray requested	NONE	NONE
[deg] Pointing Dec	-36.958052	-36.973290257959	Alternating exposures requested	N	N
[deg] Pointing Roll	294.464539	294.68250140699	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7823481983384333			
[mm] SIM defocus	0	1.724155329618782e-08			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	240204692.184000	240203577.02611			
Observation start date	2005-08-12T03:30:28	2005-08-12T03:12:57			
[s] Observation end time (MET)	240219692.184000	240220497.21439			
Observation end date	2005-08-12T07:40:28	2005-08-12T07:54:57			
Read mode	TIMED	TIMED			

## 2.3 Aspect





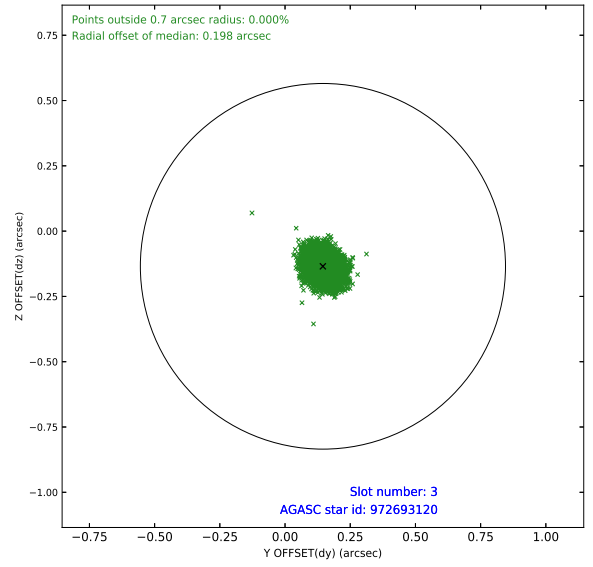
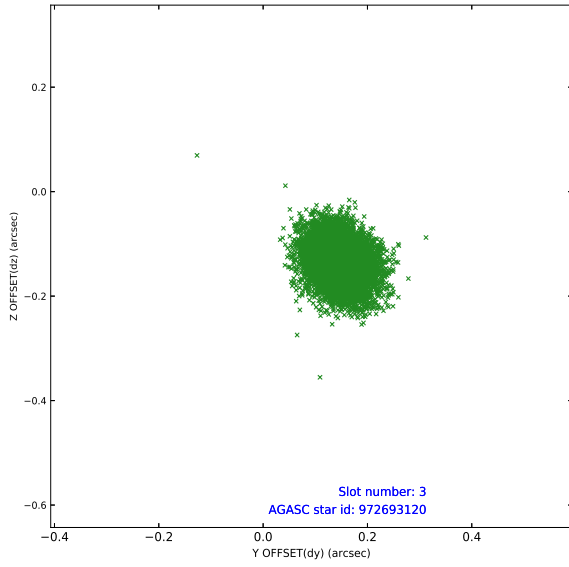
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.24	3702	1.000	-0.057	-0.002	0.023	0.036	0.000000	0.000000	932.72	-834
1	FID		ACIS-I-2	7.14	3702	1.000	-0.176	-0.080	0.012	0.020	0.000000	0.000000	-761.32	-841
2	FID		ACIS-I-4	7.17	3702	1.000	0.133	0.146	0.021	0.030	0.000000	0.000000	2152.63	1065
3	GUIDE	used	972693120	7.63	7404	1.000	0.145	-0.135	0.054	0.087	285.412210	-36.890704	-217.07	106
4	GUIDE	used	972694056	7.04	7405	1.000	-0.126	0.036	0.039	0.061	285.682787	-36.657985	-655.55	1164
5	GUIDE	used	1037567144	8.75	7401	1.000	0.094	-0.016	0.073	0.117	284.940440	-37.605390	1570.76	-2184
6	GUIDE	used	972689192	8.92	7401	1.000	-0.147	-0.026	0.077	0.129	284.589186	-37.133486	-390.15	-2409
7	GUIDE	used	972816680	9.14	7399	1.000	0.029	0.145	0.099	0.155	286.054324	-36.904693	599.44	1766

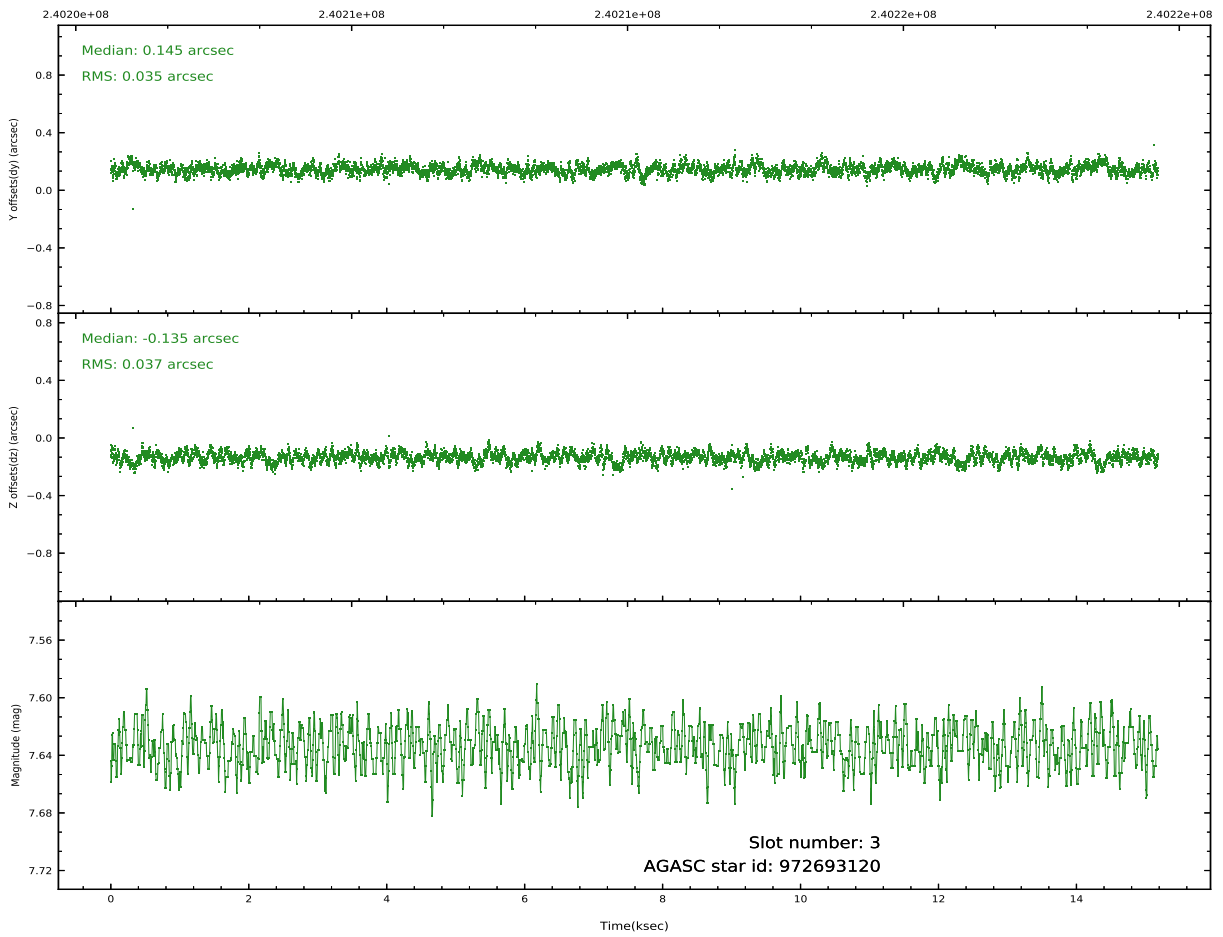
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## 2.4 Star Slots

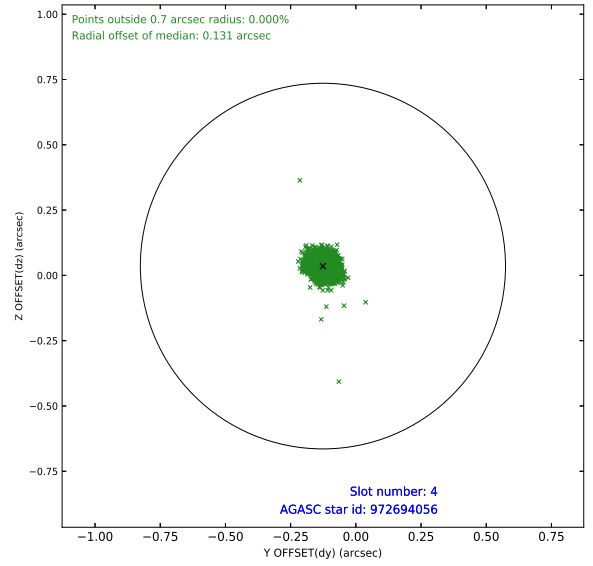
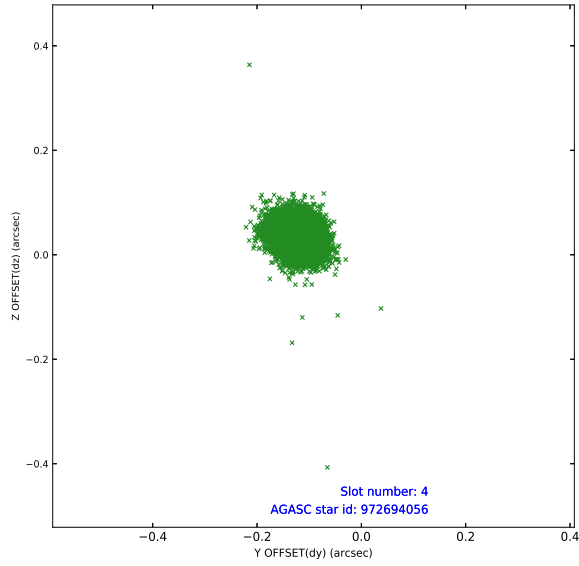
### 2.4.1 Slot 3



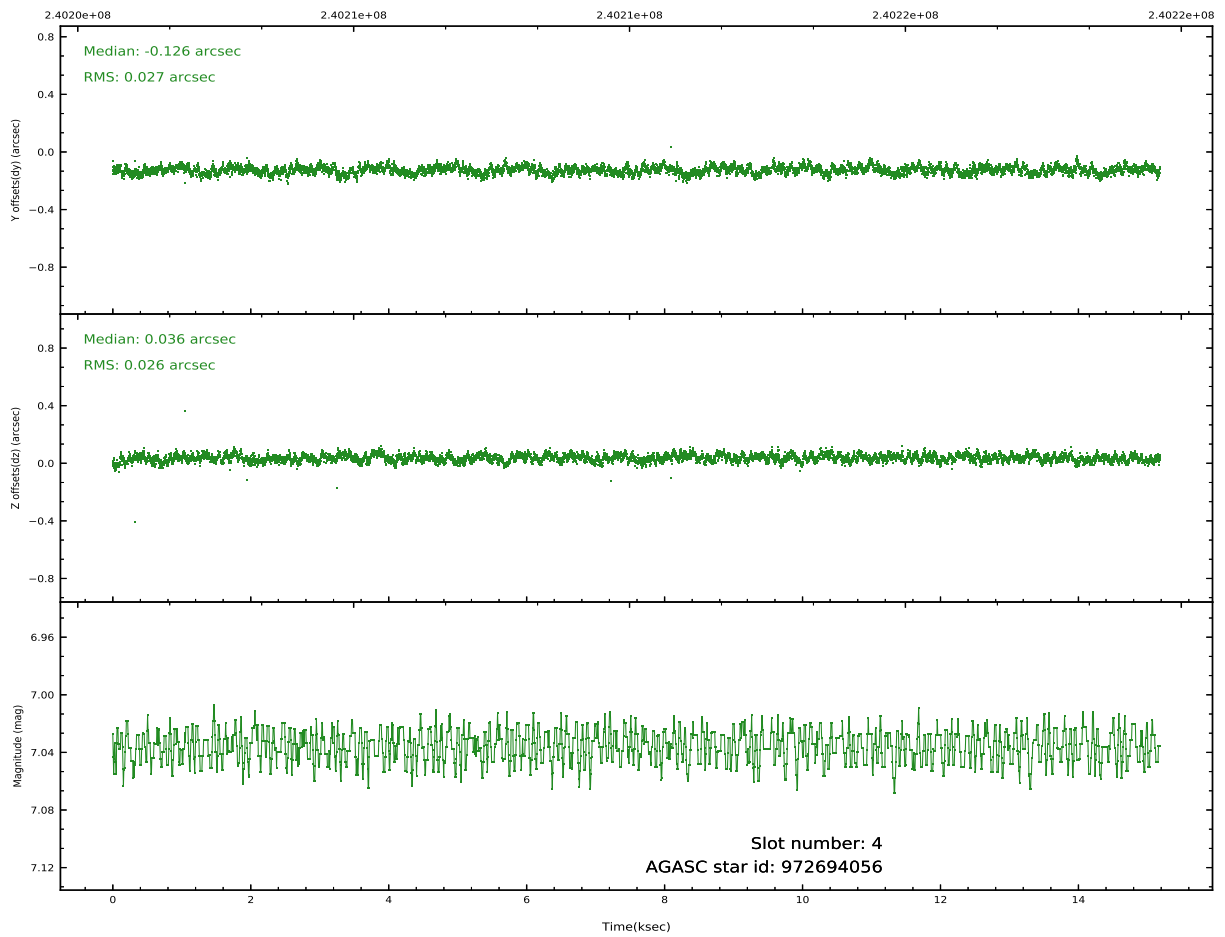
Time (s)



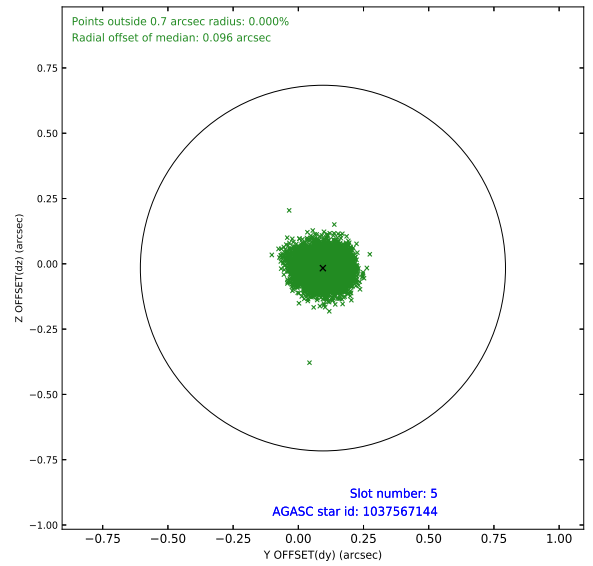
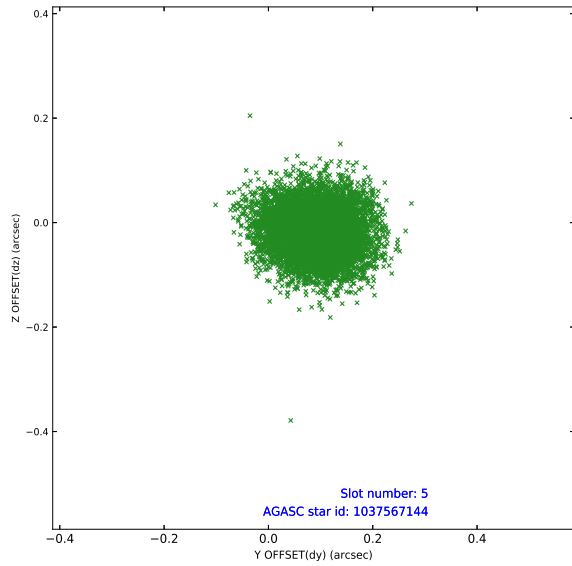
## 2.4.2 Slot 4



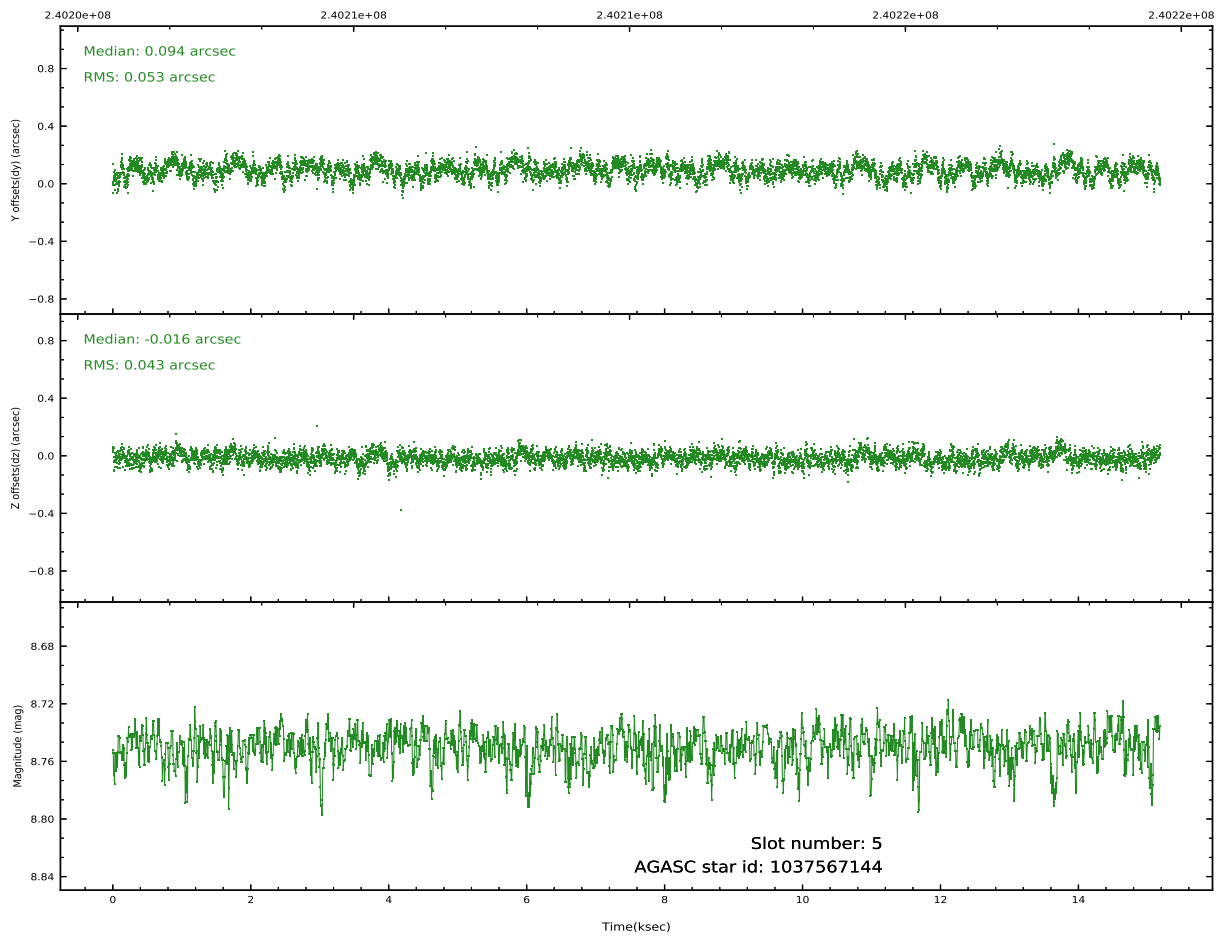
Time (s)



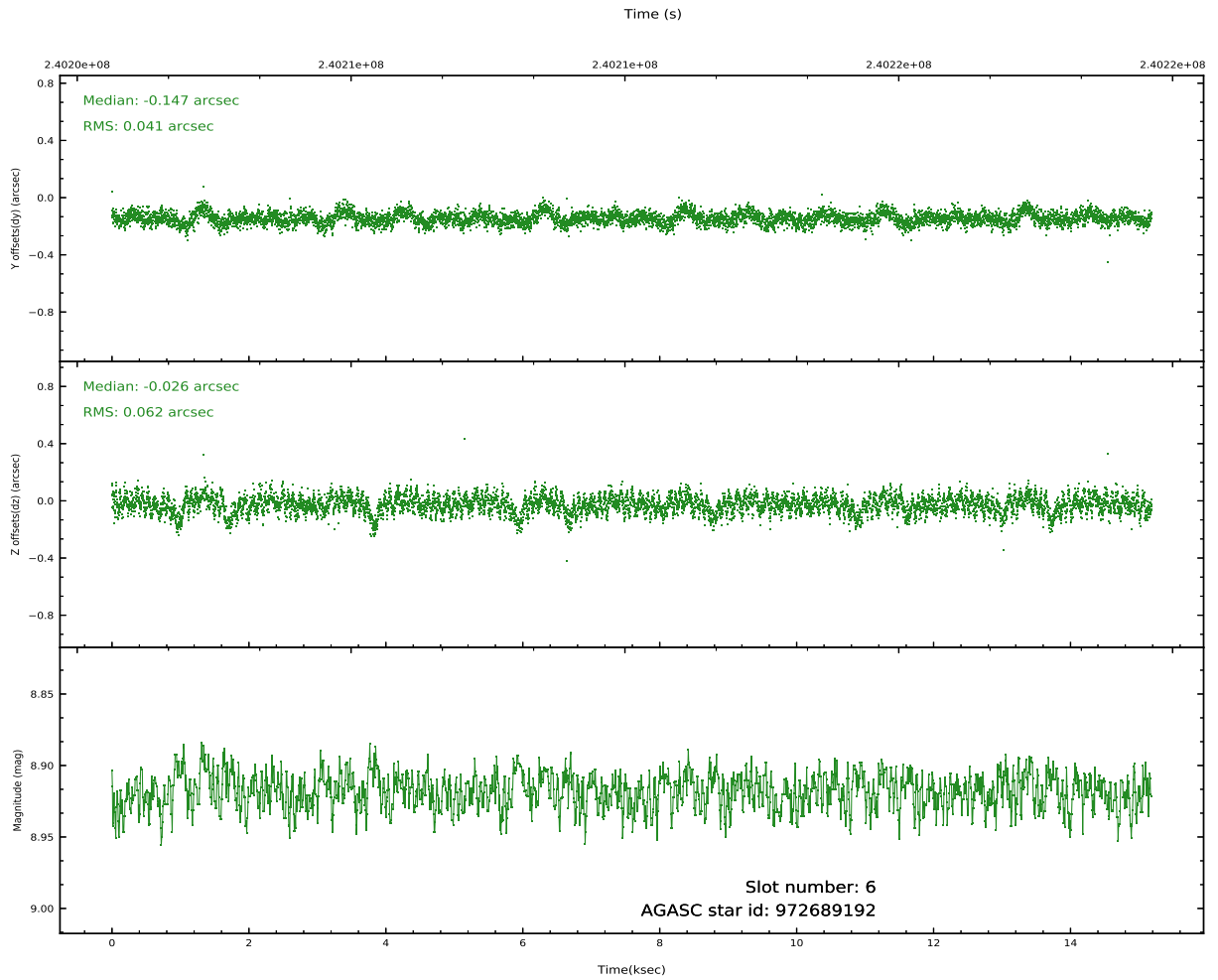
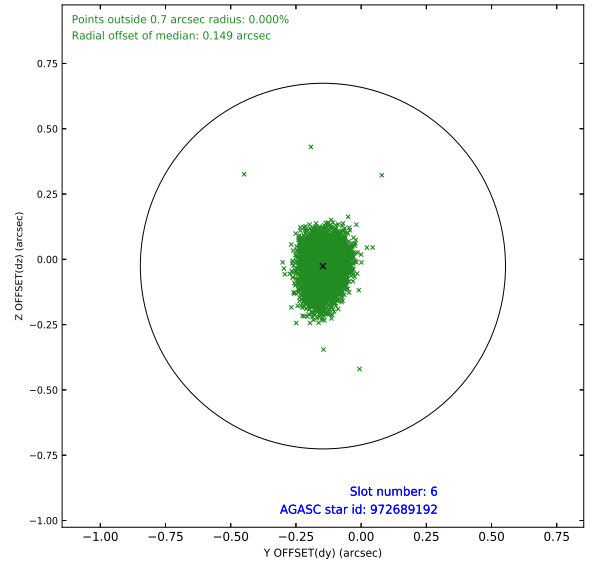
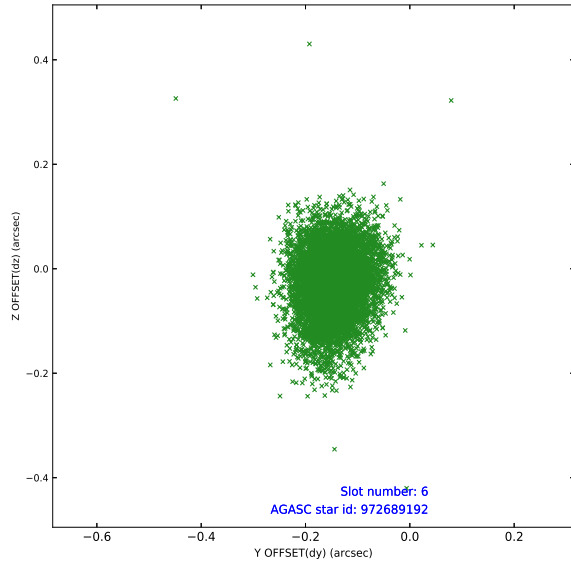
### 2.4.3 Slot 5



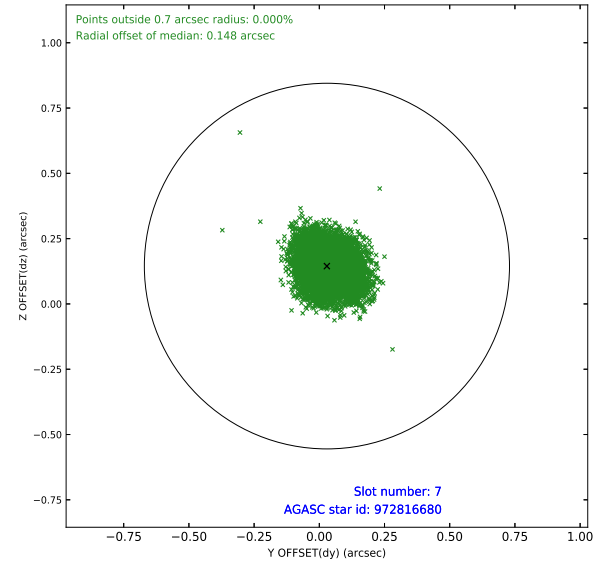
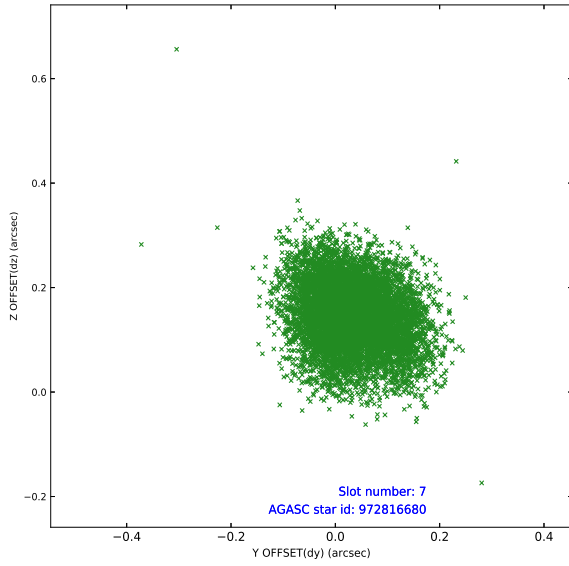
Time (s)



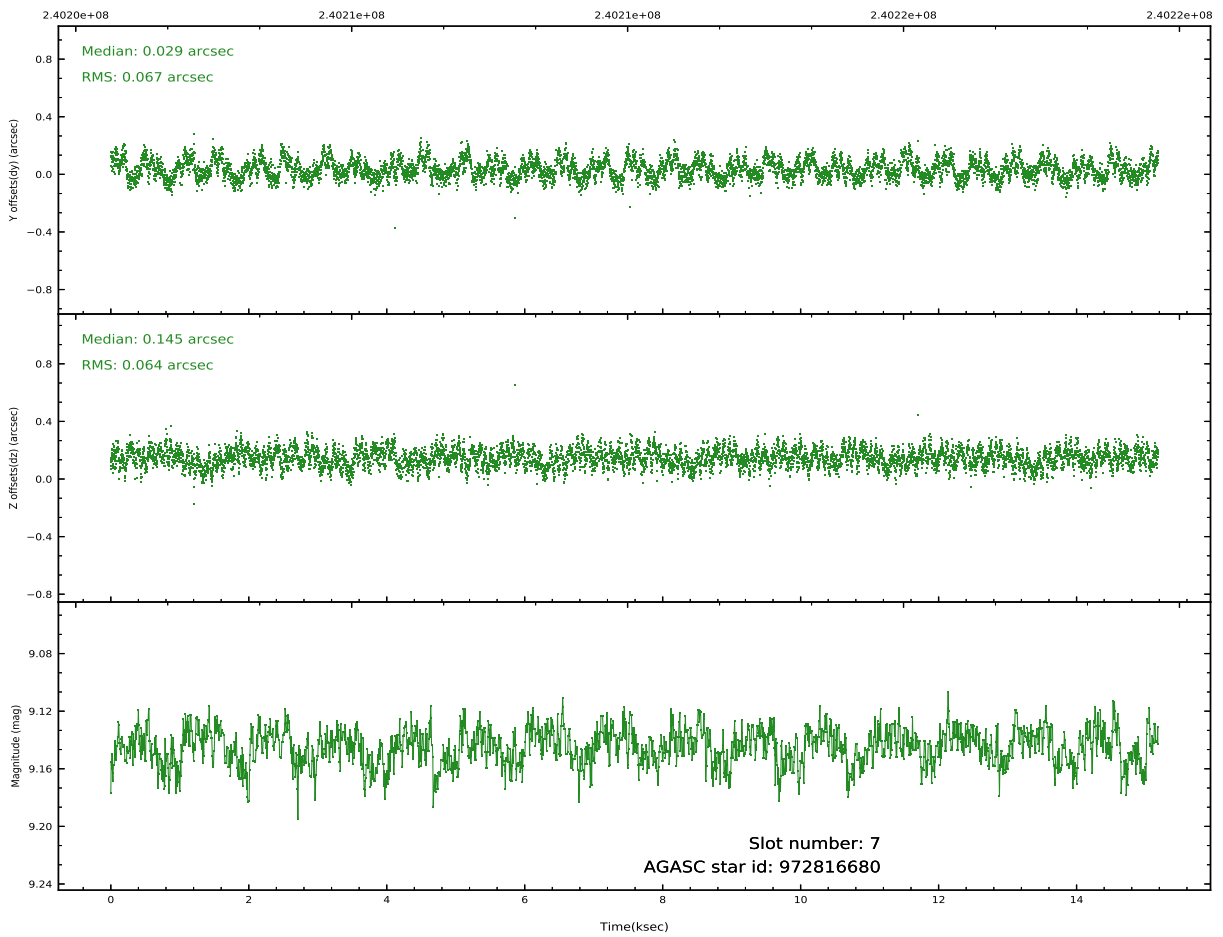
## 2.4.4 Slot 6



## 2.4.5 Slot 7

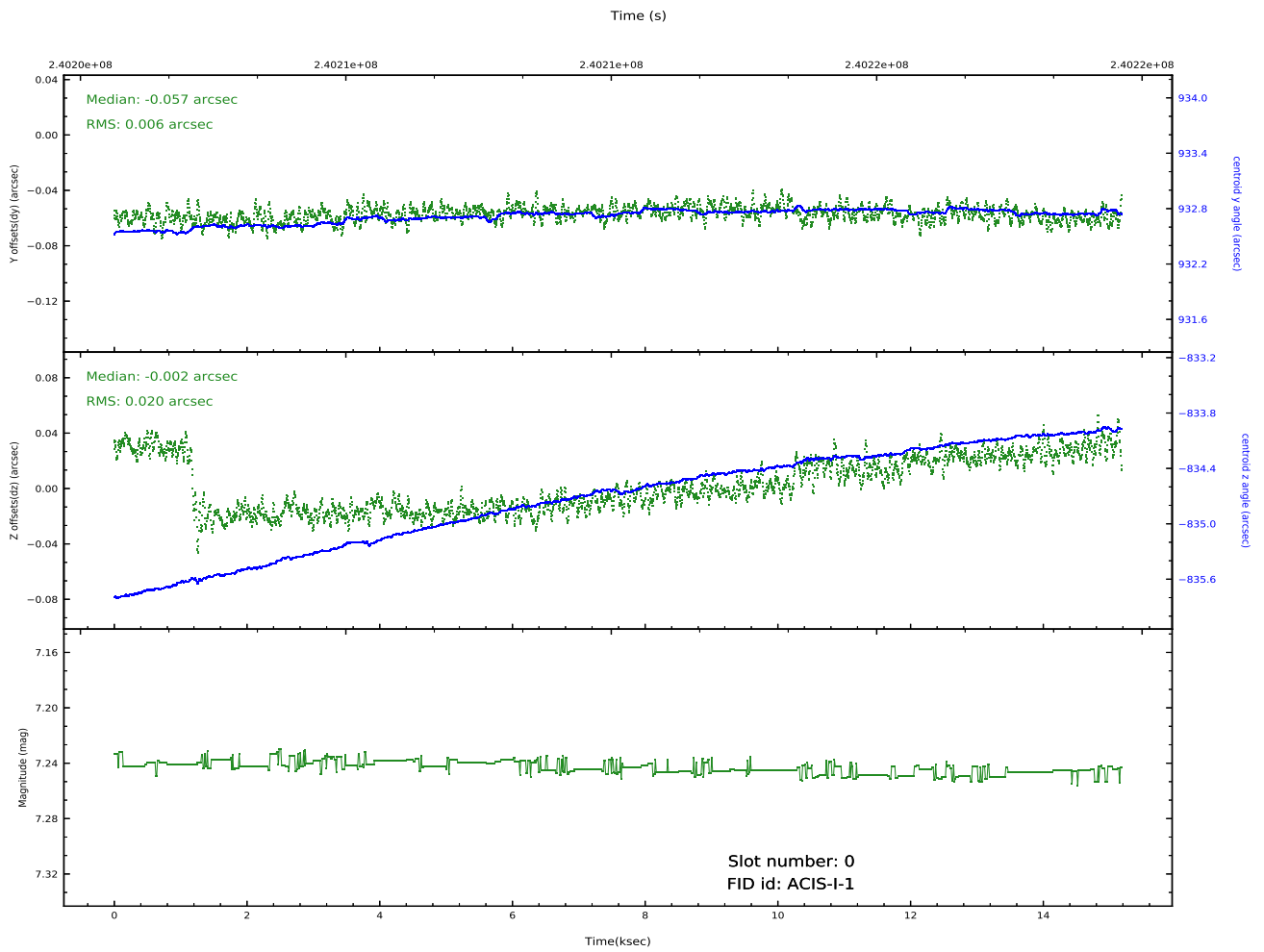
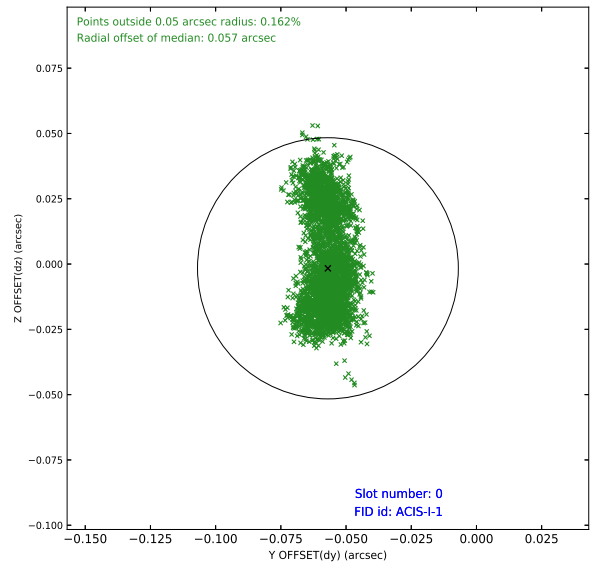
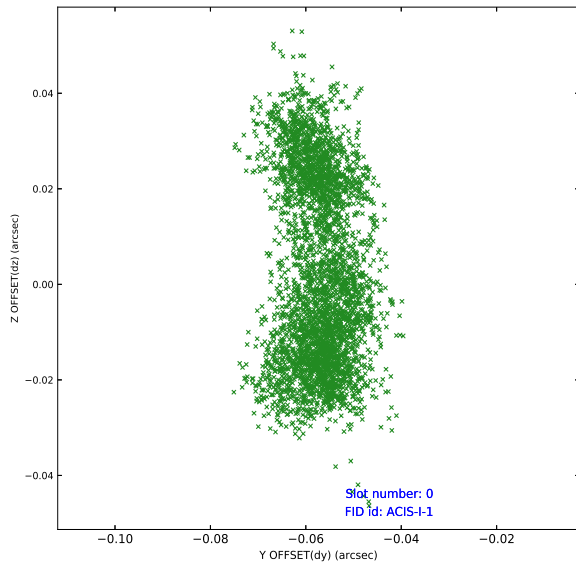


Time (s)

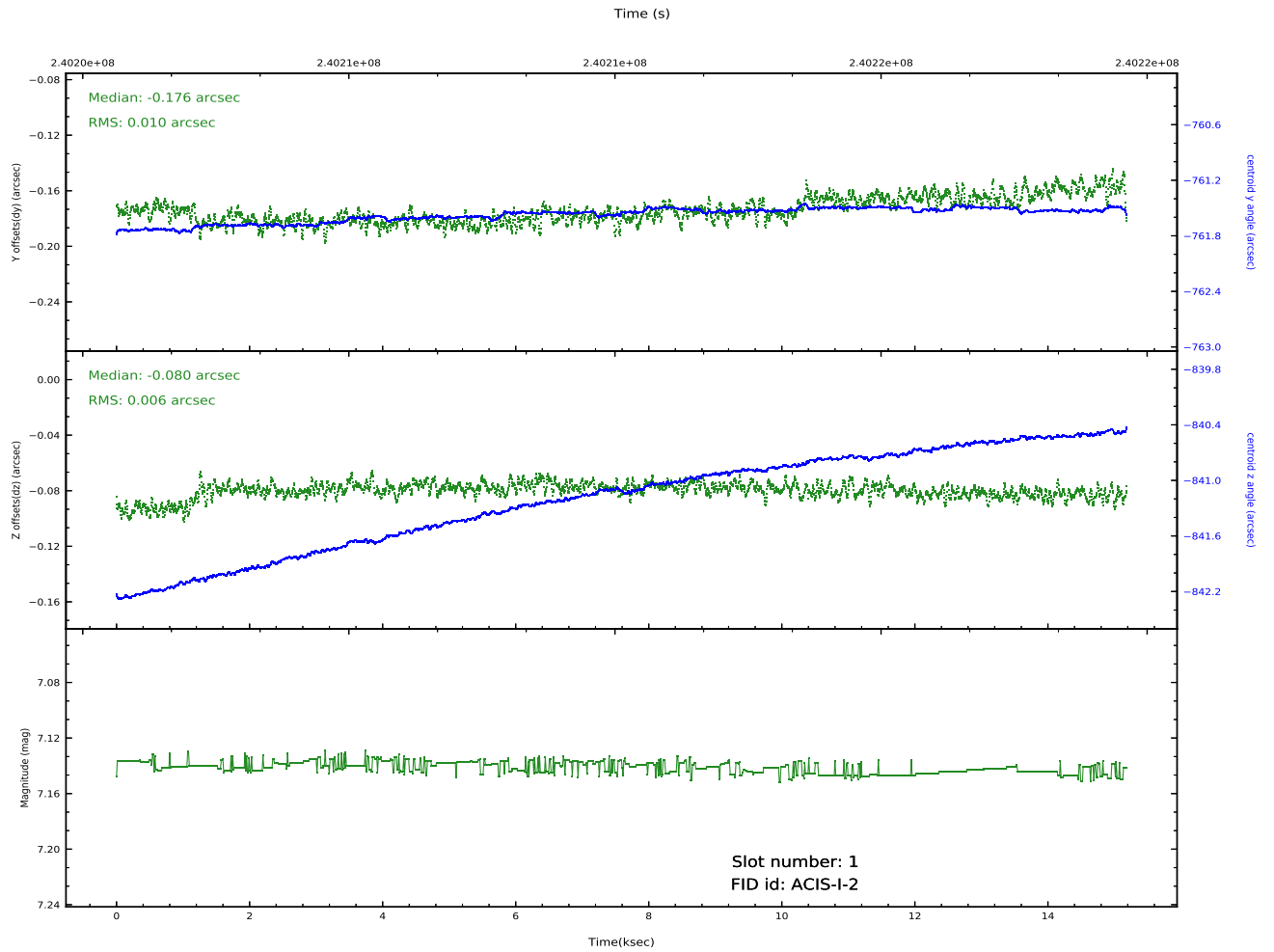
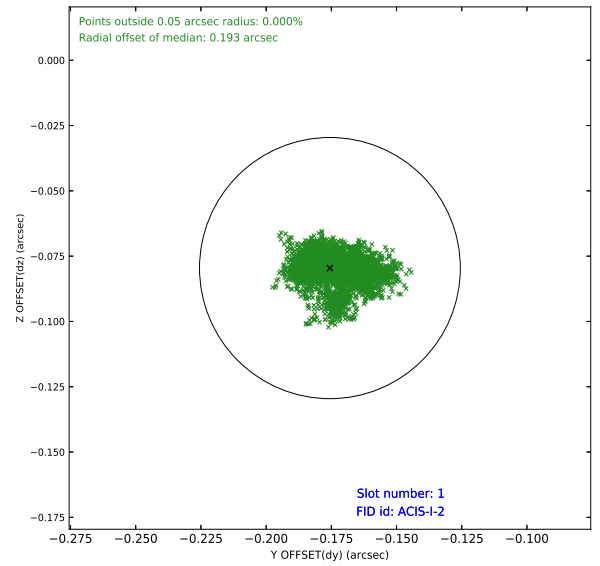
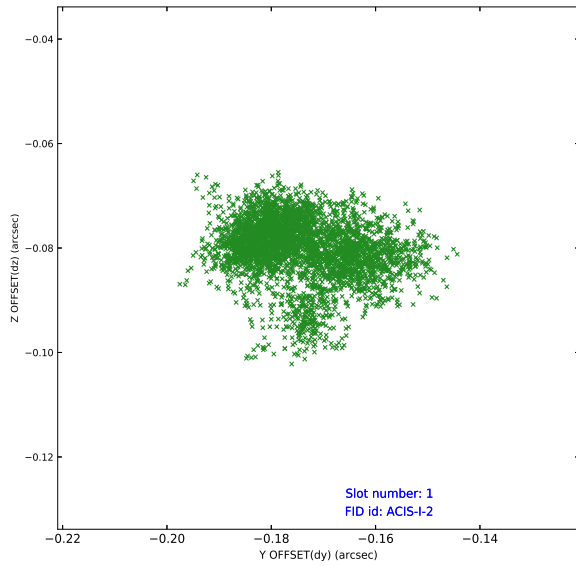


## 2.5 FID Slots

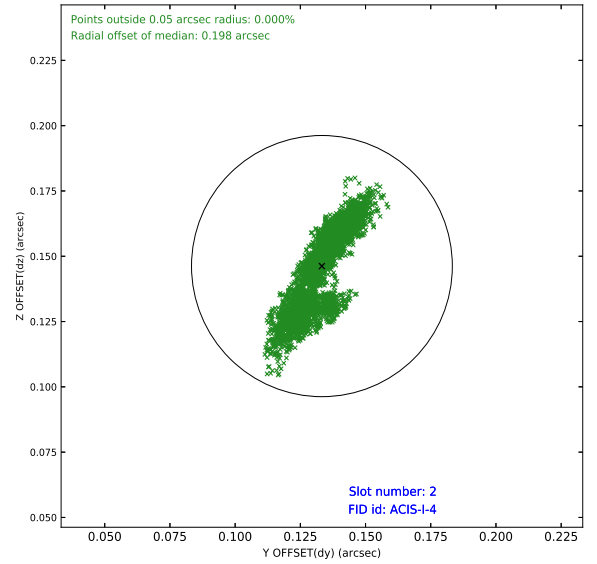
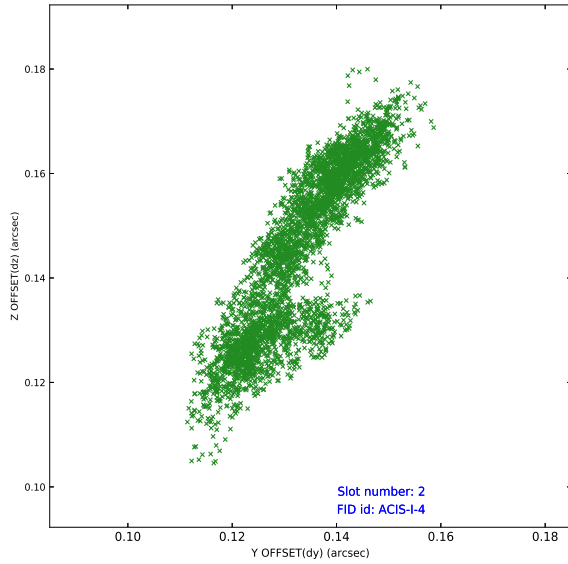
### 2.5.1 Slot 0



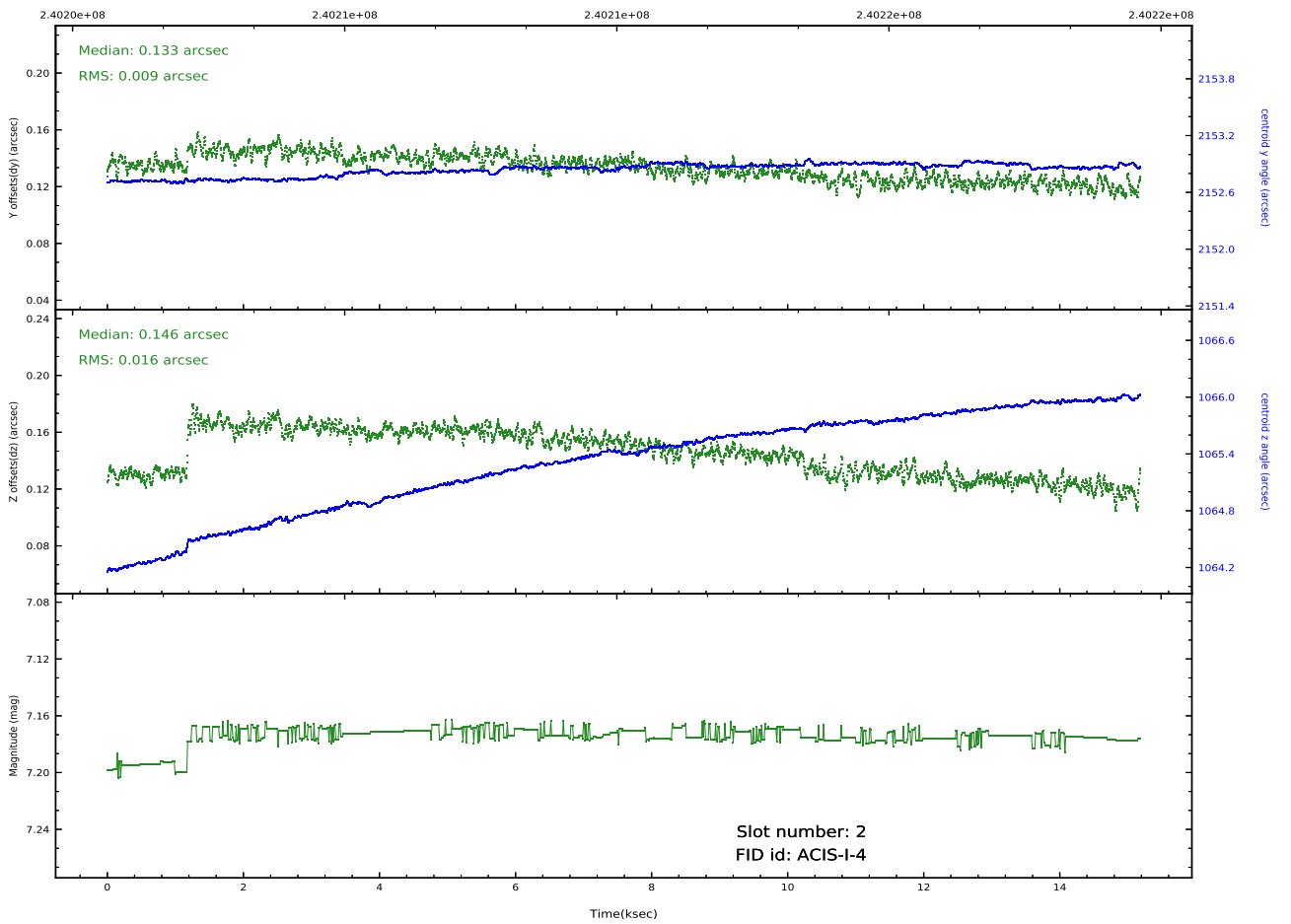
## 2.5.2 Slot 1



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.1744

## A.2 Comments

Joint proposal with NRAO.