

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6365 - L2 Version 4  
Chandra X-Ray Center

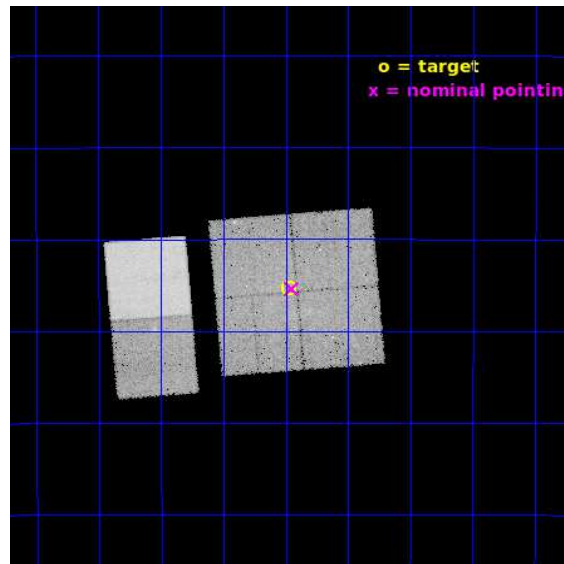
L2 Processing Date : Oct 11 2020

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# 1 Front

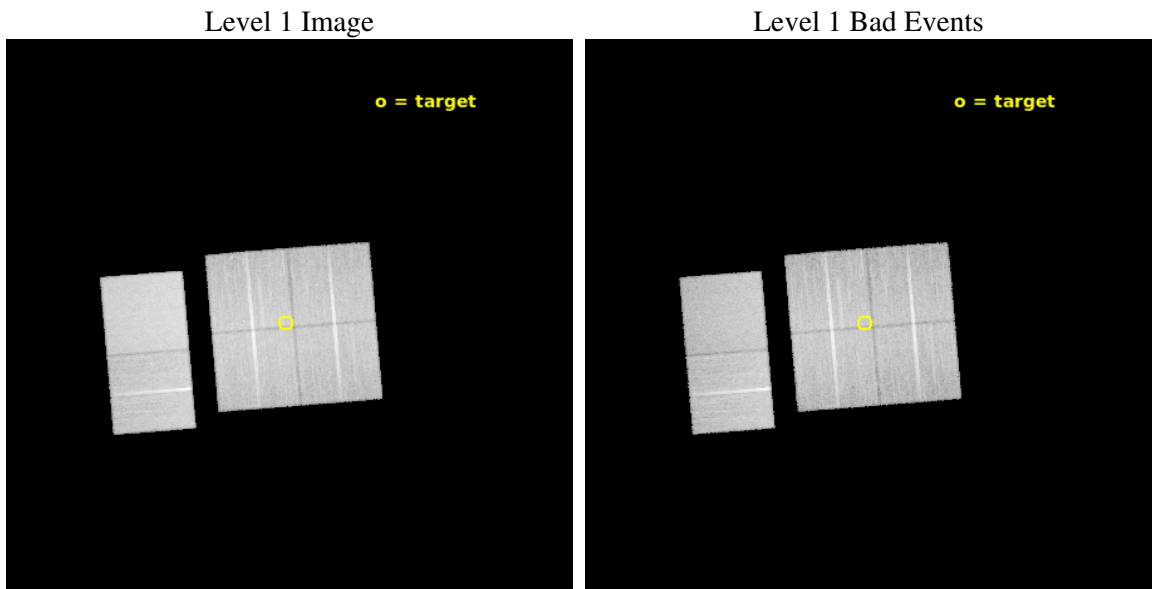
seq_num	600453	Sequence number
obs_id	6365	Observation id
title	Galactic Bulge Chandra-HST Survey	Proposal title
observer	Jonathan Grindlay	Principal investigator
object	Galactic Bulge Survey (Neg. Gal. Lat.)	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	267.86875	Observer's specified target RA [deg]
dec_targ	-29.588	Observer's specified target Dec [deg]
ra_nom	267.86252612181	Nominal RA [deg]
dec_nom	-29.589817211771	Nominal Dec [deg]
roll_nom	265.26131231854	Nominal Roll [deg]
revision	4	Processing version of data
ontime	20953.162600428	Sum of GTIs [s]
livetime	20687.841039101	Livetime [s]
ontime0	20949.798589915	Sum of GTIs [s]
ontime1	20956.321490735	Sum of GTIs [s]
ontime2	20953.121660054	Sum of GTIs [s]
ontime3	20953.162600428	Sum of GTIs [s]
ontime6	20956.485650748	Sum of GTIs [s]
ontime7	20956.444610745	Sum of GTIs [s]
l2events	219550	Number of level 2 events



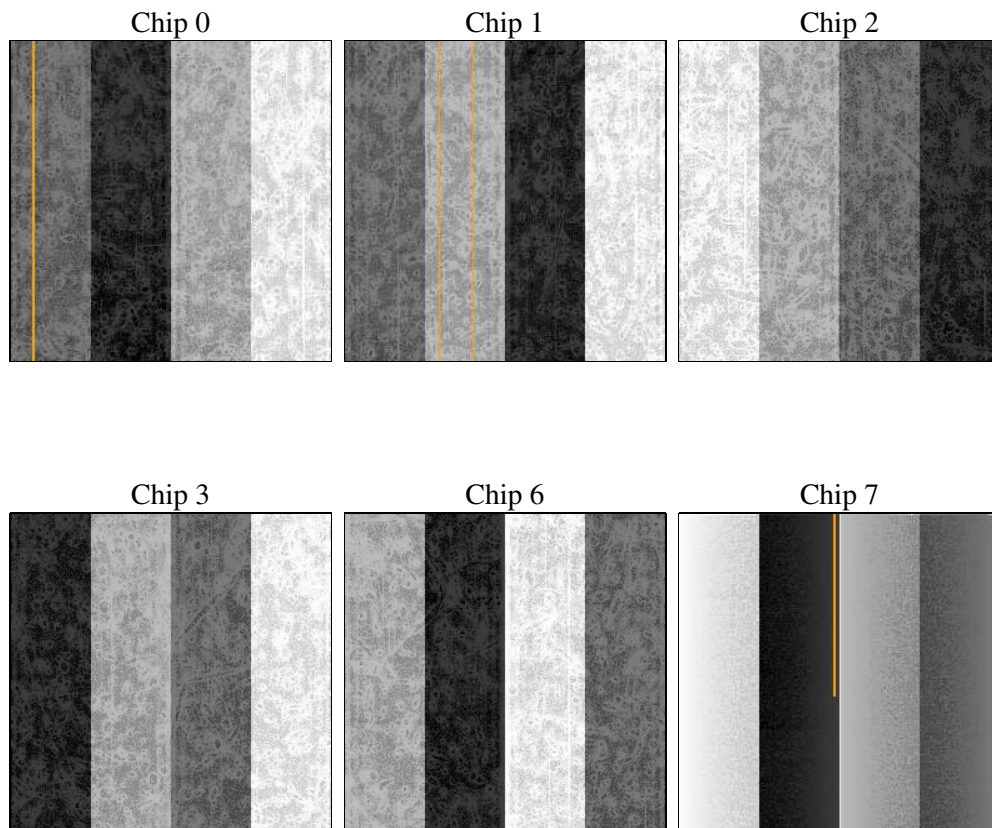
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20953.162600428	Sum of GTIs [s]
caldsver	4.9.2	&#160	ontime0	20949.798589915	Sum of GTIs [s]
date	2020-10-11T04:06:09	Date and time of file creation	ontime1	20956.321490735	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	20953.121660054	Sum of GTIs [s]
			ontime3	20953.162600428	Sum of GTIs [s]
			ontime6	20956.485650748	Sum of GTIs [s]
			ontime7	20956.444610745	Sum of GTIs [s]
			l1events	1060071	Number of level 1 events

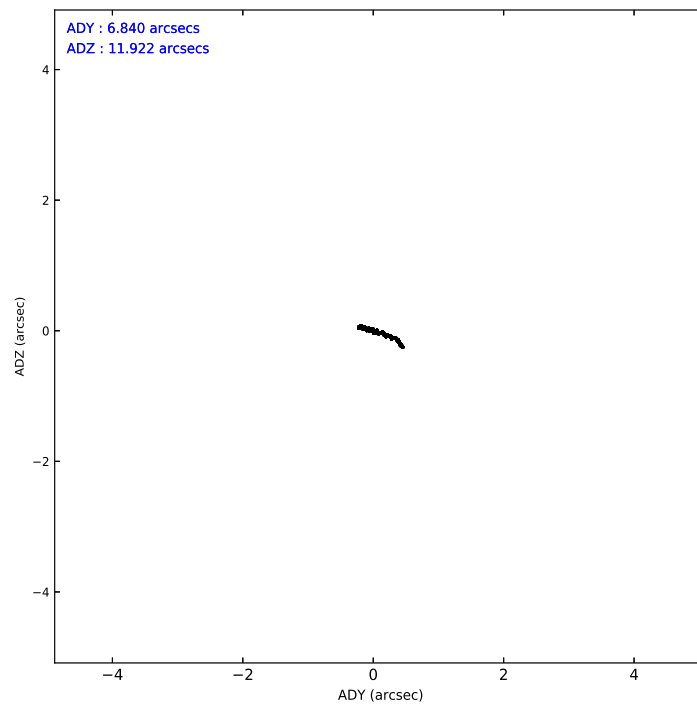
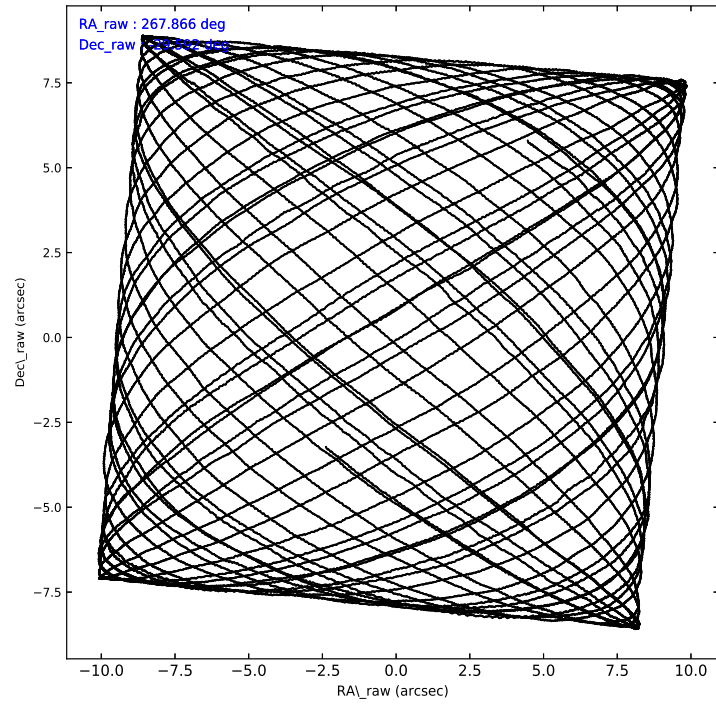
### 2.1.4 Events

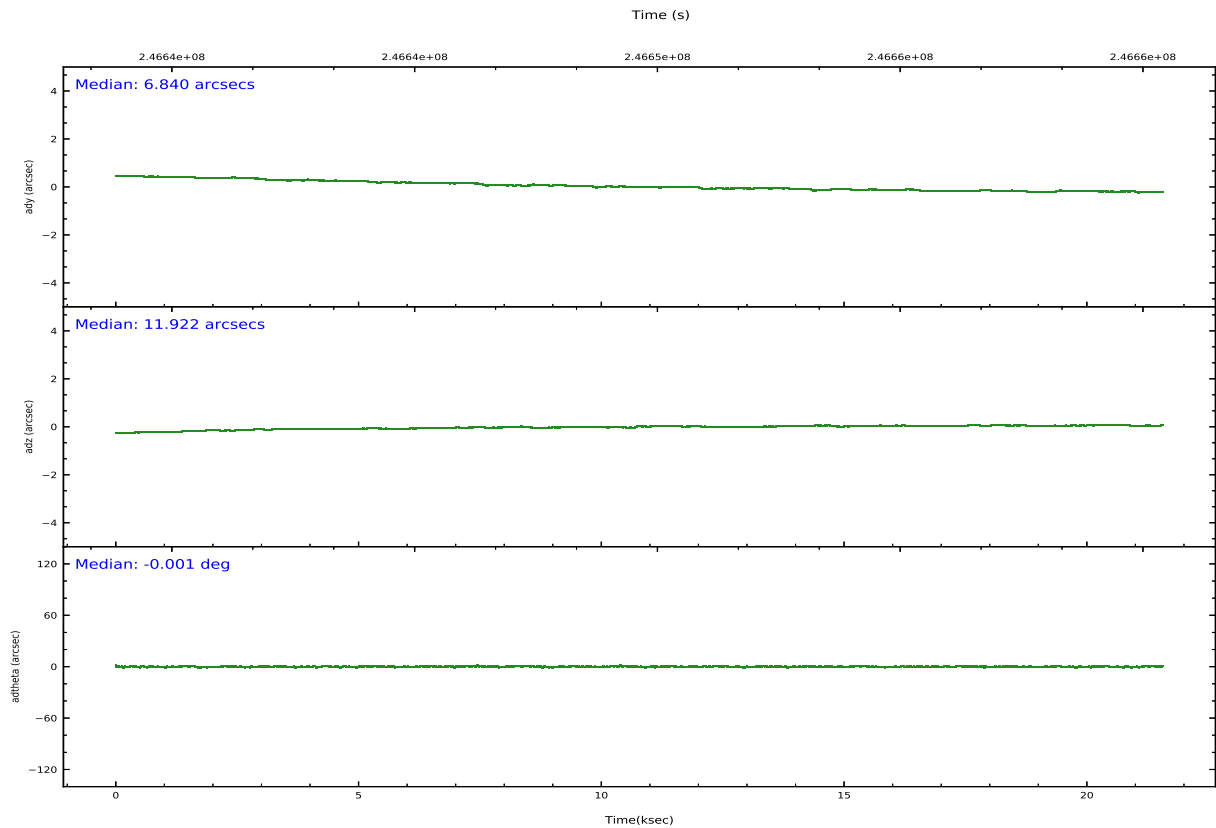
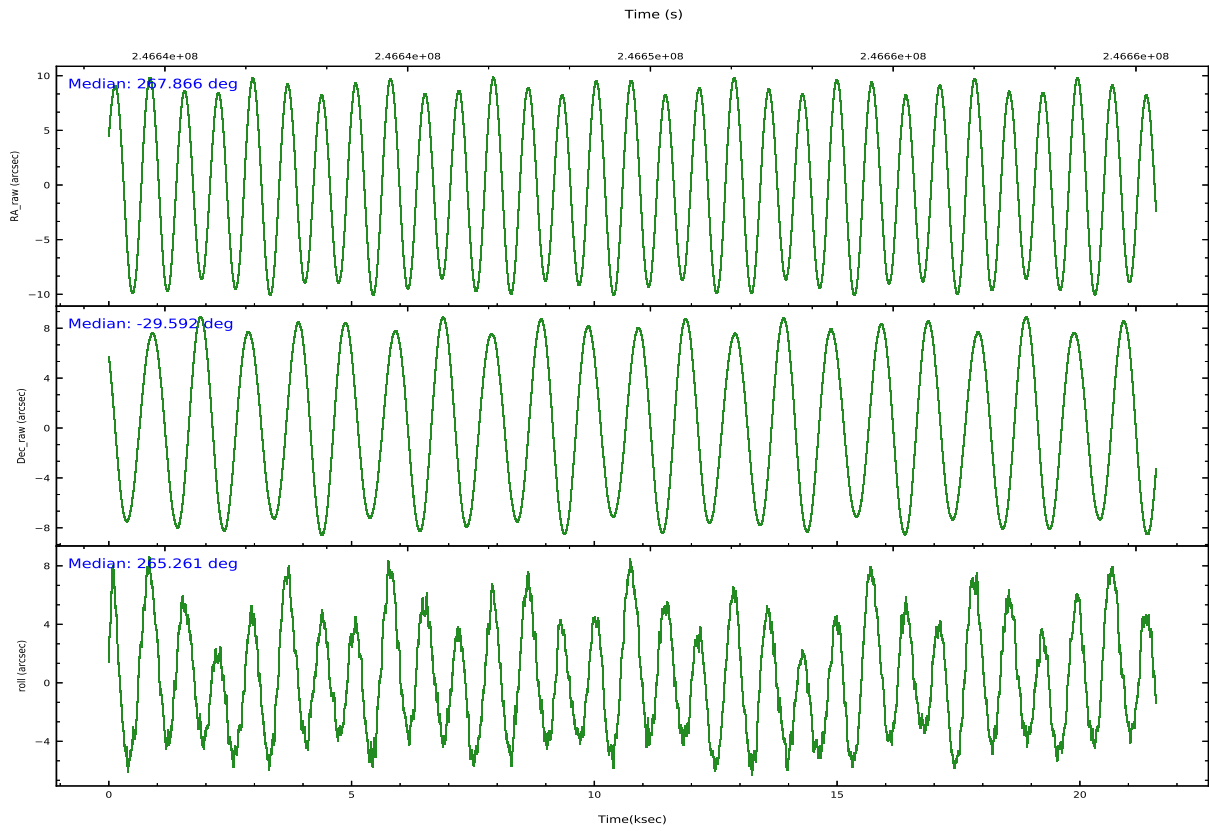
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	155153	153258	172967	169226	177668	231799	grade 0 events	15337	14057	16416	15474	13365	10402
rejected events	127255	125552	144510	141718	151325	131238		9%	9%	9%	9%	7%	4%
rejected %	82%	81%	83%	83%	85%	56%	grade 1 events	113	106	153	138	106	220
								0%	0%	0%	0%	0%	0%
							grade 2 events	4988	5219	4801	4376	4854	20997
								3%	3%	2%	2%	2%	9%
							grade 3 events	2154	2224	2047	2090	2100	9119
								1%	1%	1%	1%	1%	3%
							grade 4 events	1929	2114	1988	2063	2026	8984
								1%	1%	1%	1%	1%	3%
							grade 5 events	6327	7020	6166	7505	7826	21553
								4%	4%	3%	4%	4%	9%
							grade 6 events	3501	4106	3215	3514	4008	51091
								2%	2%	1%	2%	2%	22%
							grade 7 events	120804	118412	138181	134066	143383	109433
								77%	77%	79%	79%	80%	47%

## 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	267.852718	267.86252612181	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.567385	-29.589817211771	Alternating exposures requested	N	N
[deg] Pointing Roll	265.051512	265.26131231854	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	246639416.184000	246638260.8219			
Observation start date	2005-10-25T14:55:52	2005-10-25T14:37:40			
[s] Observation end time (MET)	246660416.184000	246662060.298			
Observation end date	2005-10-25T20:45:52	2005-10-25T21:14:20			
Read mode	TIMED	TIMED			

## 2.3 Aspect





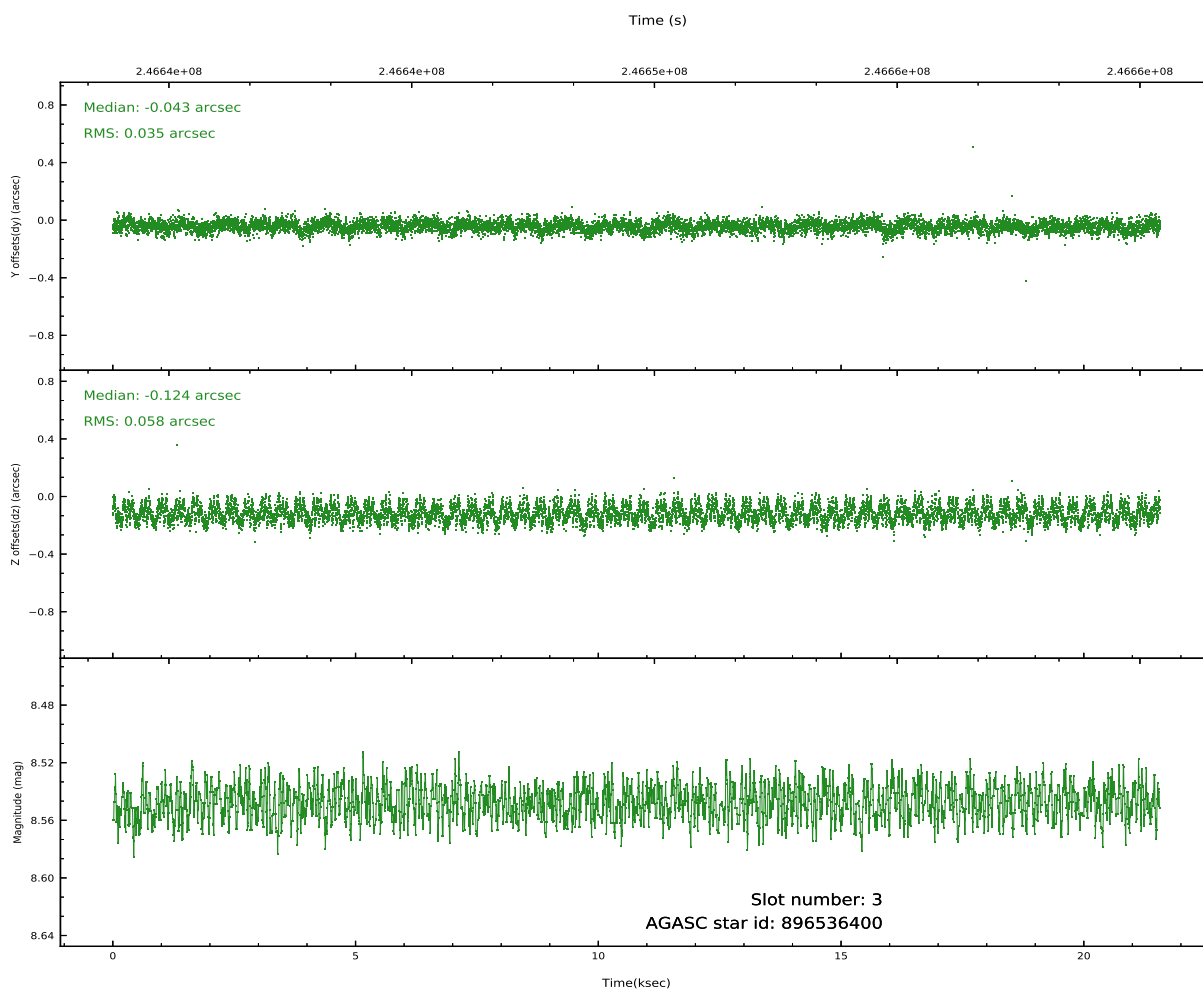
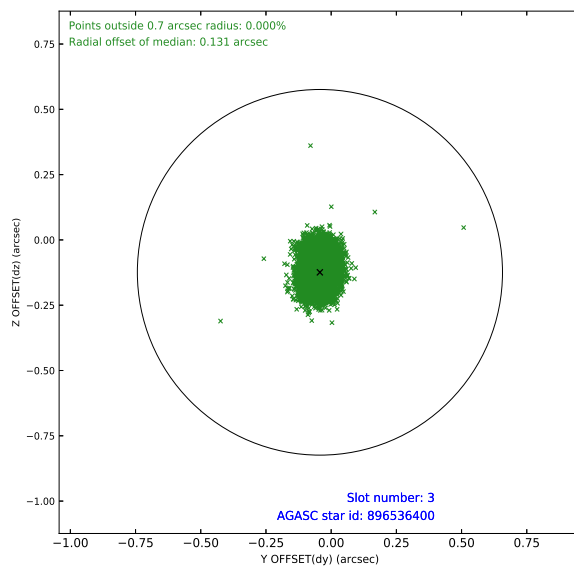
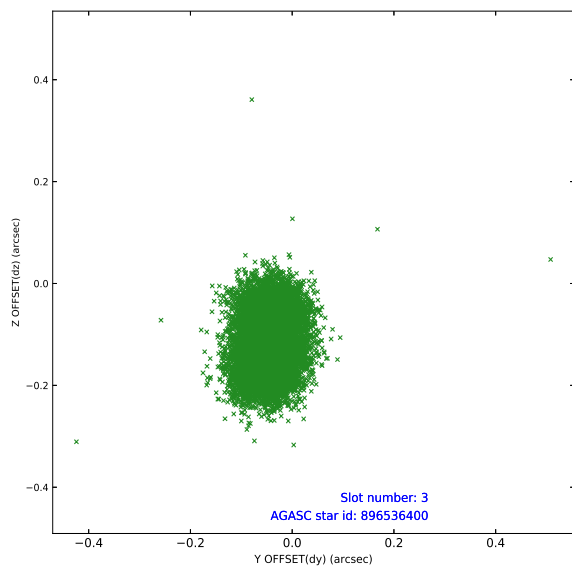
### Slot Statistics

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	5262	1.000	0.059	-0.042	0.007	0.012	0.000000	0.000000	932.84	-835
1	FID		ACIS-I-5	7.23	5261	1.000	-0.202	0.061	0.007	0.012	0.000000	0.000000	-1815.40	1062
2	FID		ACIS-I-6	7.25	5262	1.000	0.052	0.051	0.007	0.012	0.000000	0.000000	398.25	1706
3	GUIDE	used	896536400	8.55	10520	1.000	-0.043	-0.124	0.073	0.116	267.359146	-29.438655	-324.41	-1581
4	GUIDE	used	896540528	8.25	10523	1.000	0.032	-0.133	0.087	0.136	267.368305	-29.314773	-771.24	-1593
5	GUIDE	used	896543792	9.84	10490	1.000	0.108	0.034	0.122	0.198	267.148052	-29.957989	1597.74	-2067
6	GUIDE	used	898247688	8.66	10520	1.000	-0.154	0.269	0.081	0.130	268.426687	-29.012154	-2142.82	1628
7	GUIDE	used	898248800	8.24	10520	1.000	0.060	-0.044	0.061	0.096	267.977609	-29.931731	1273.39	501

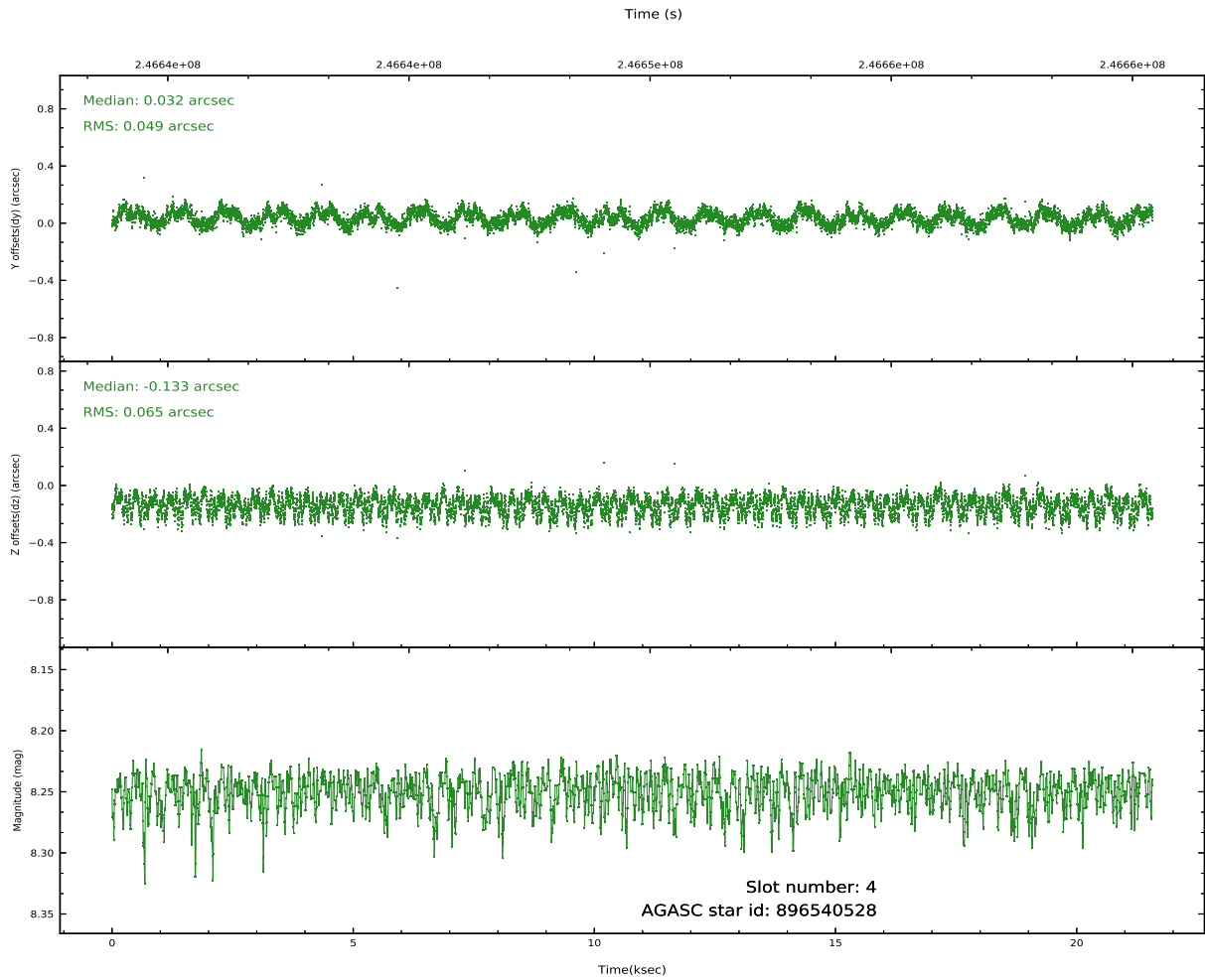
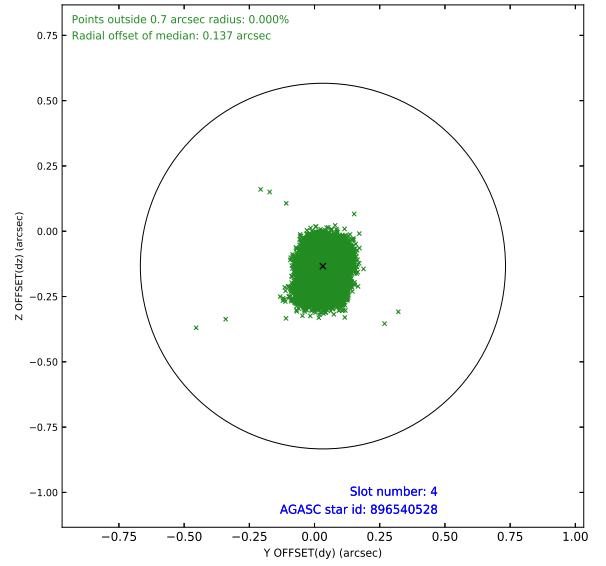
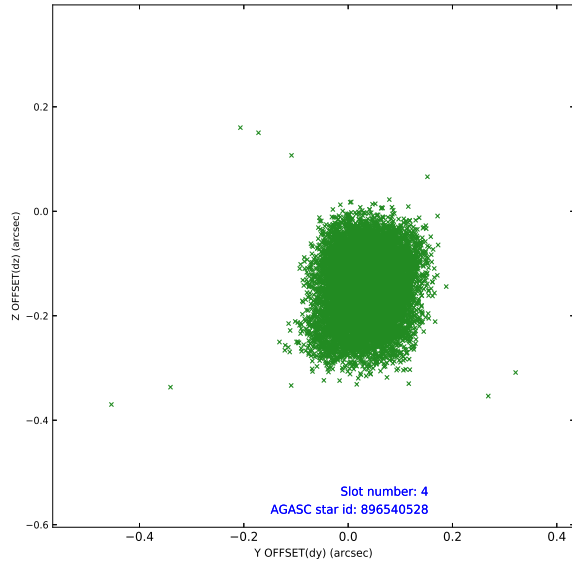
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## 2.4 Star Slots

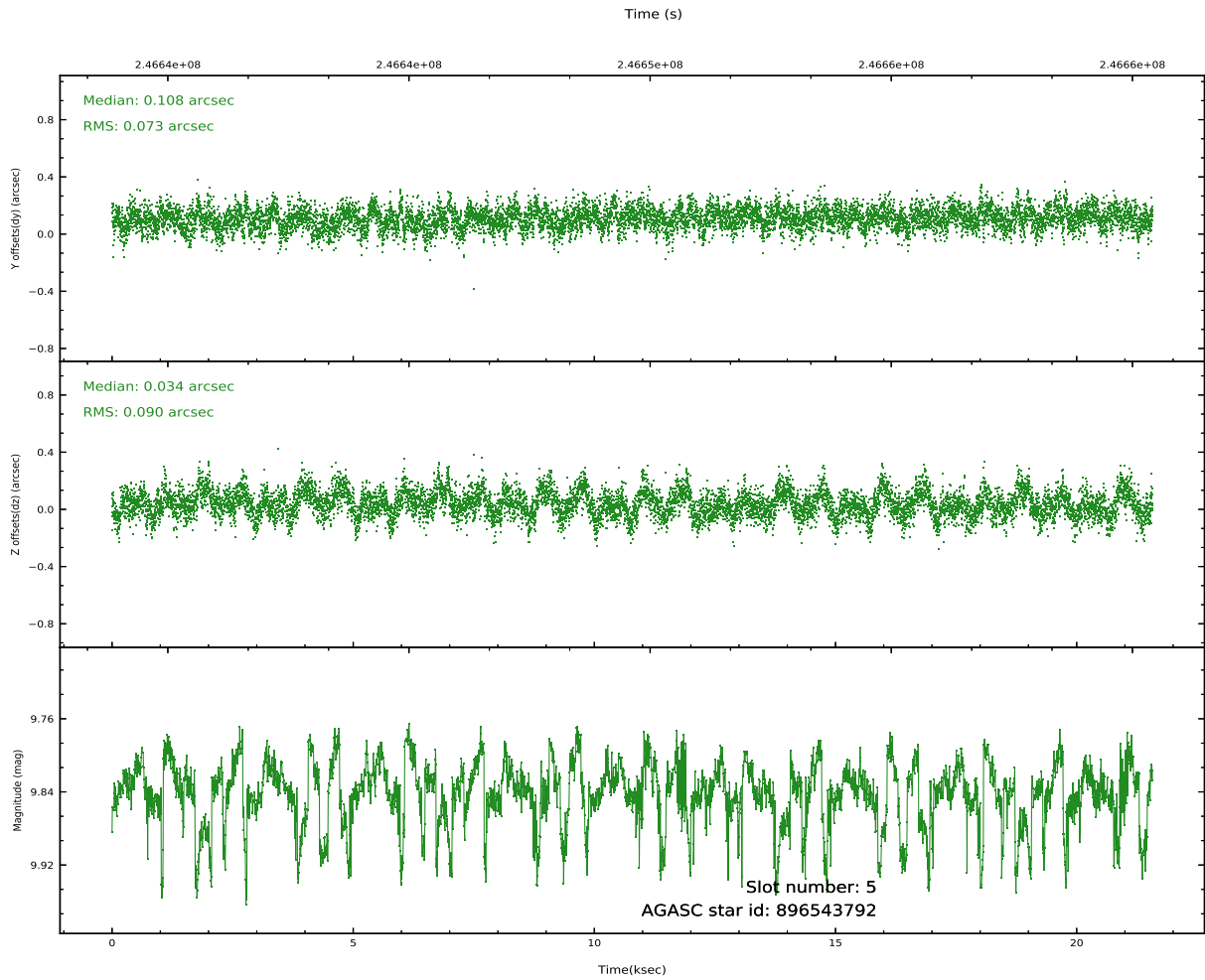
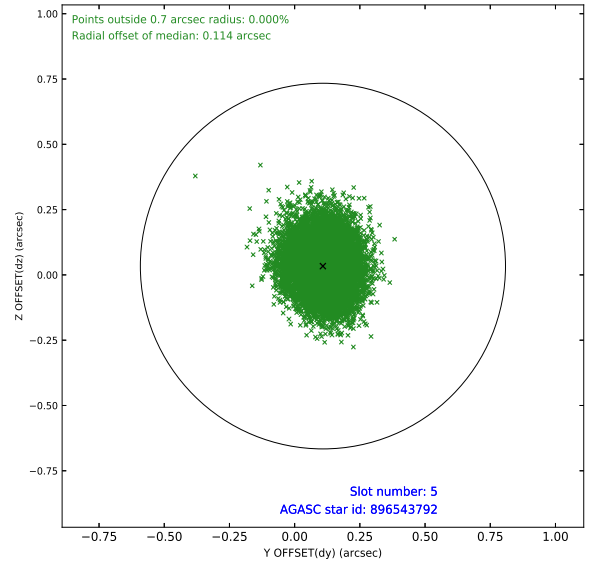
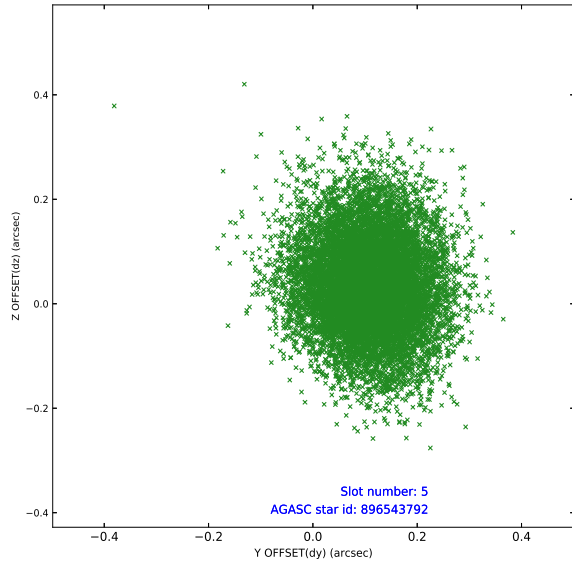
### 2.4.1 Slot 3



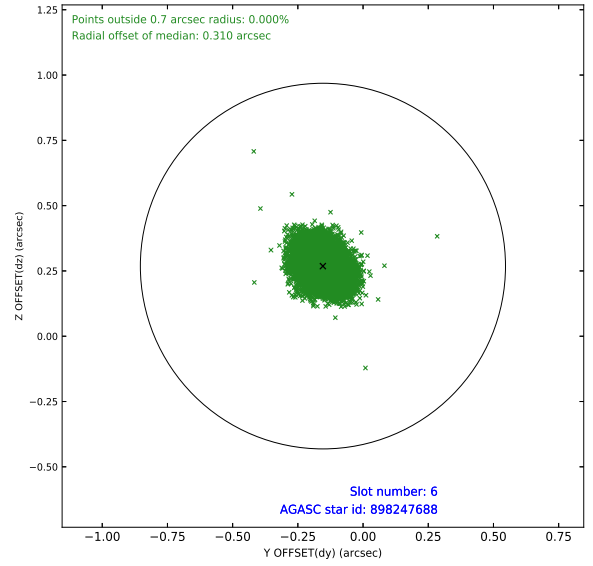
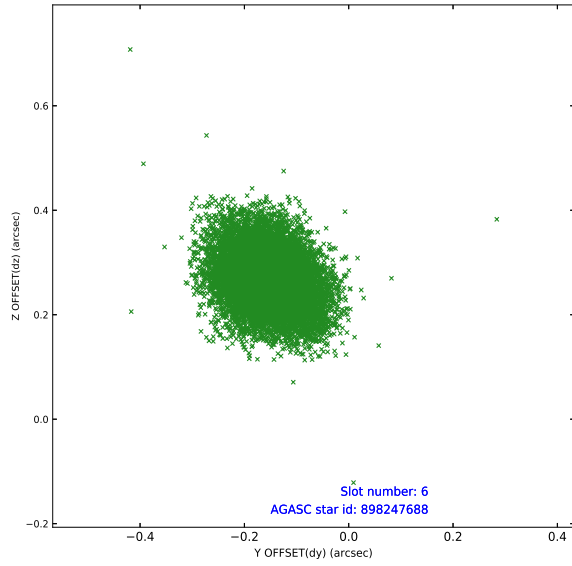
## 2.4.2 Slot 4



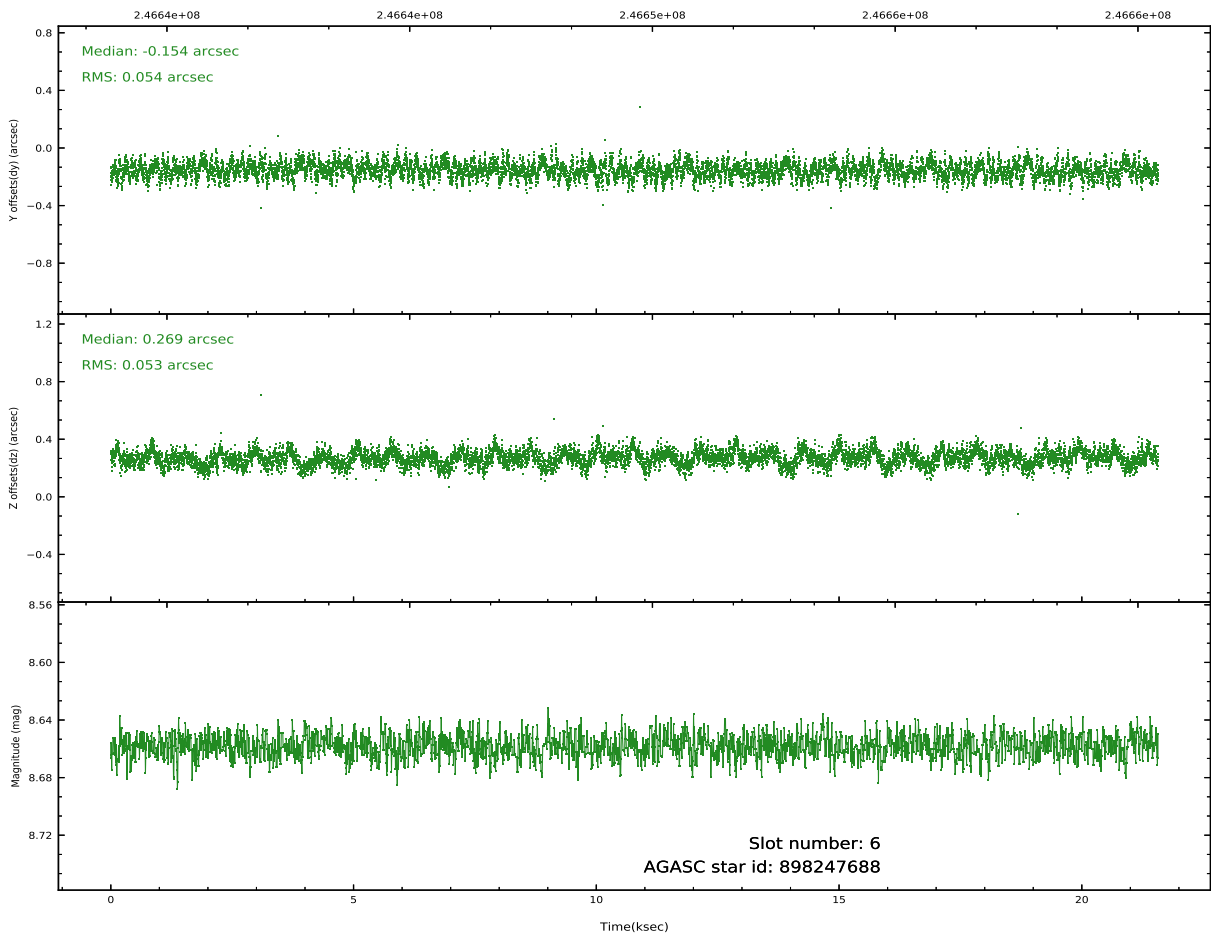
### 2.4.3 Slot 5



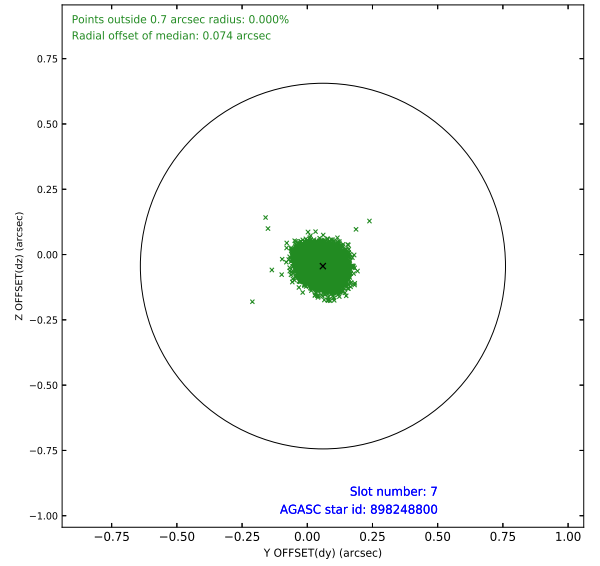
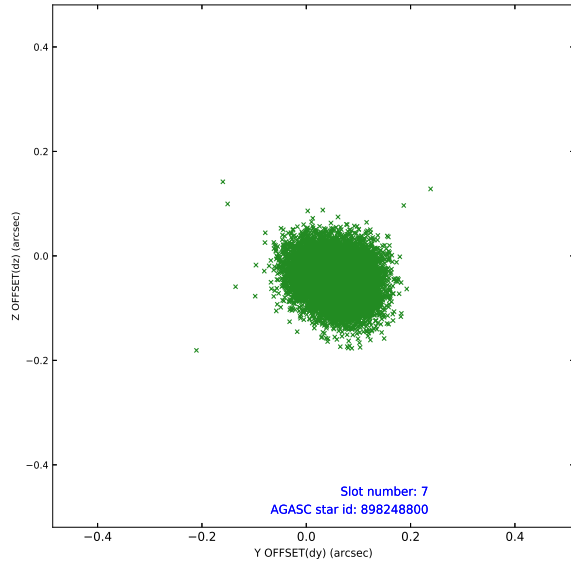
## 2.4.4 Slot 6



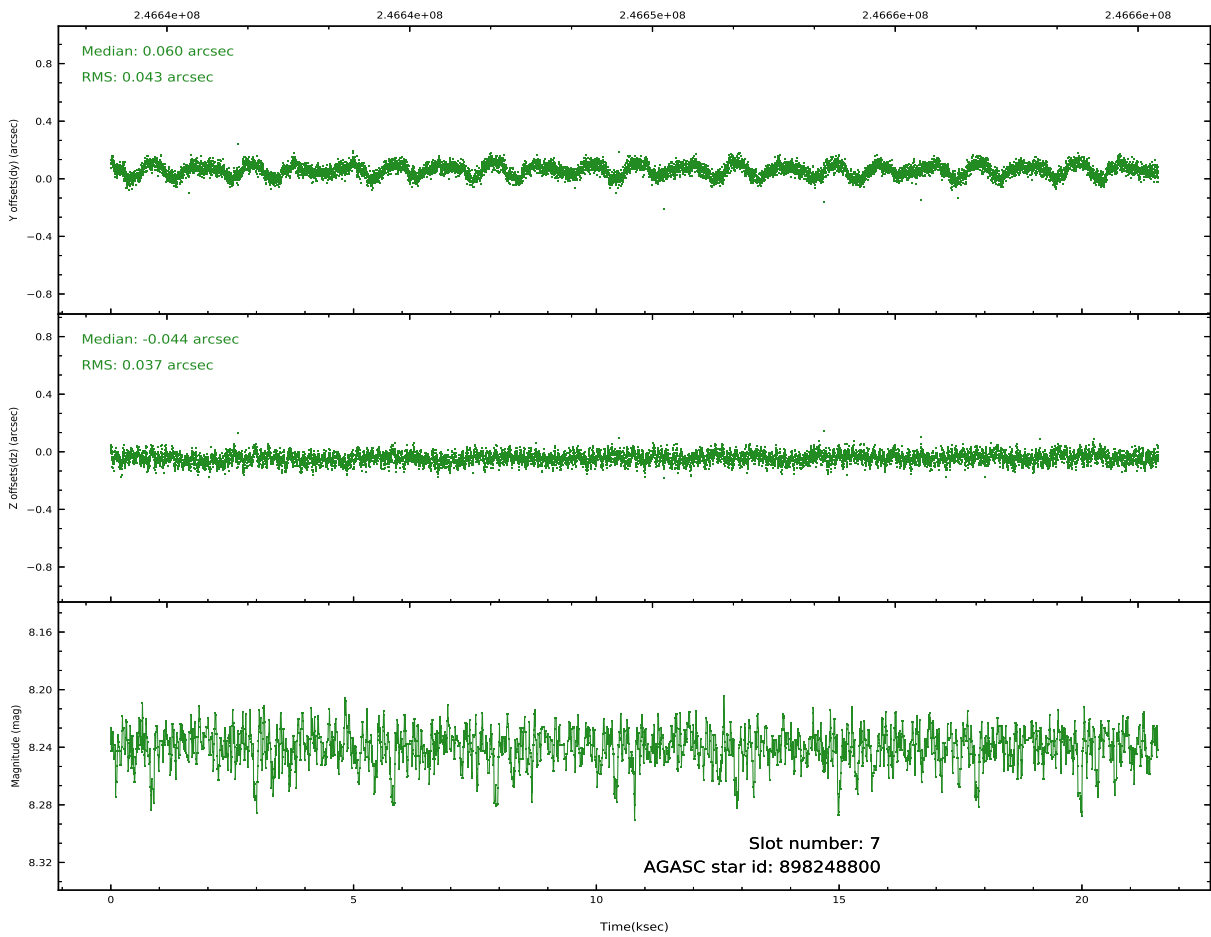
Time (s)



## 2.4.5 Slot 7

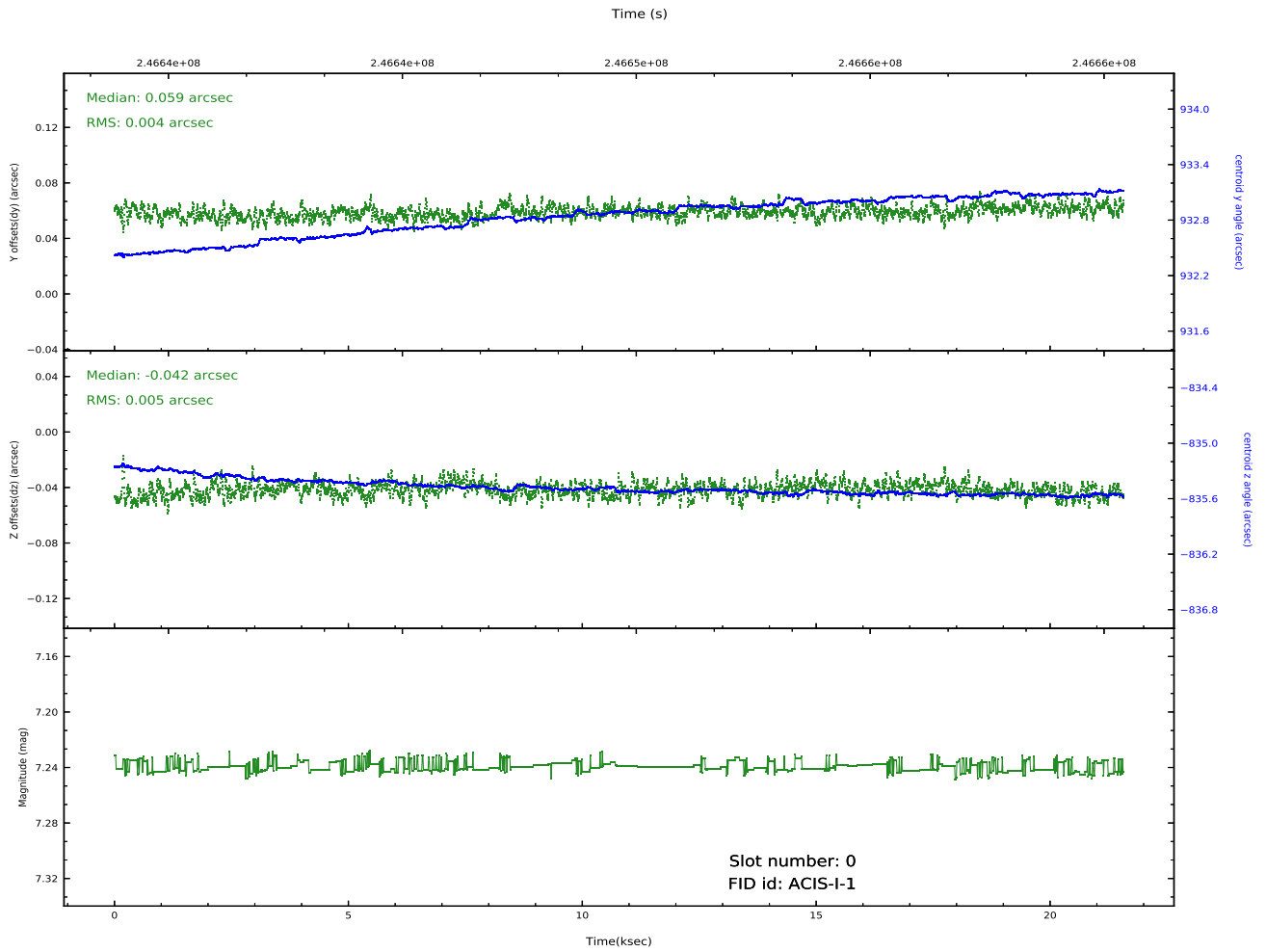
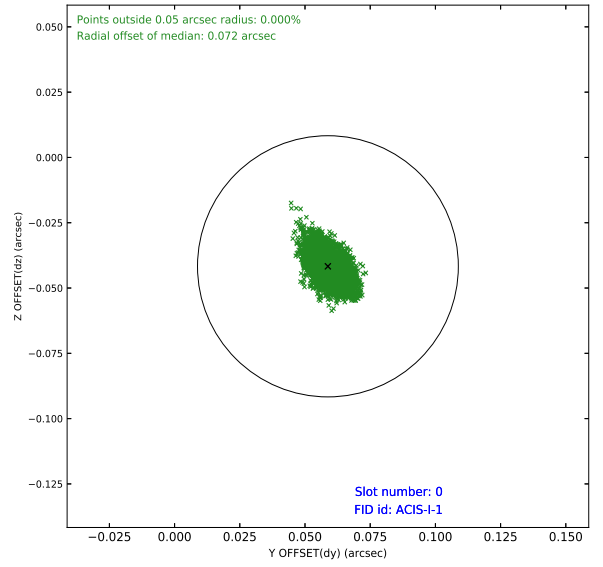
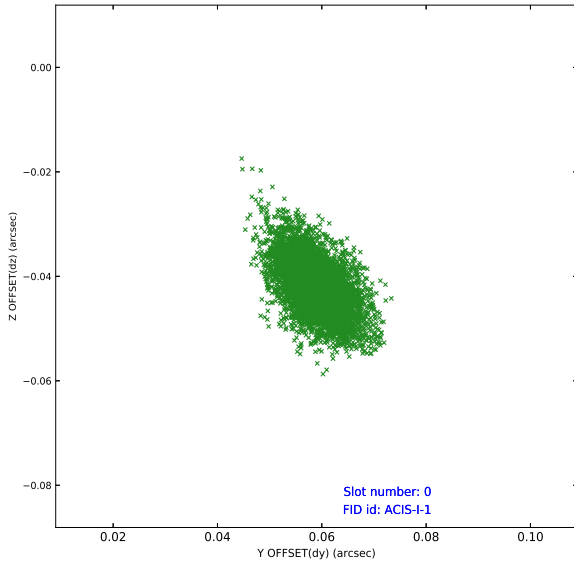


Time (s)

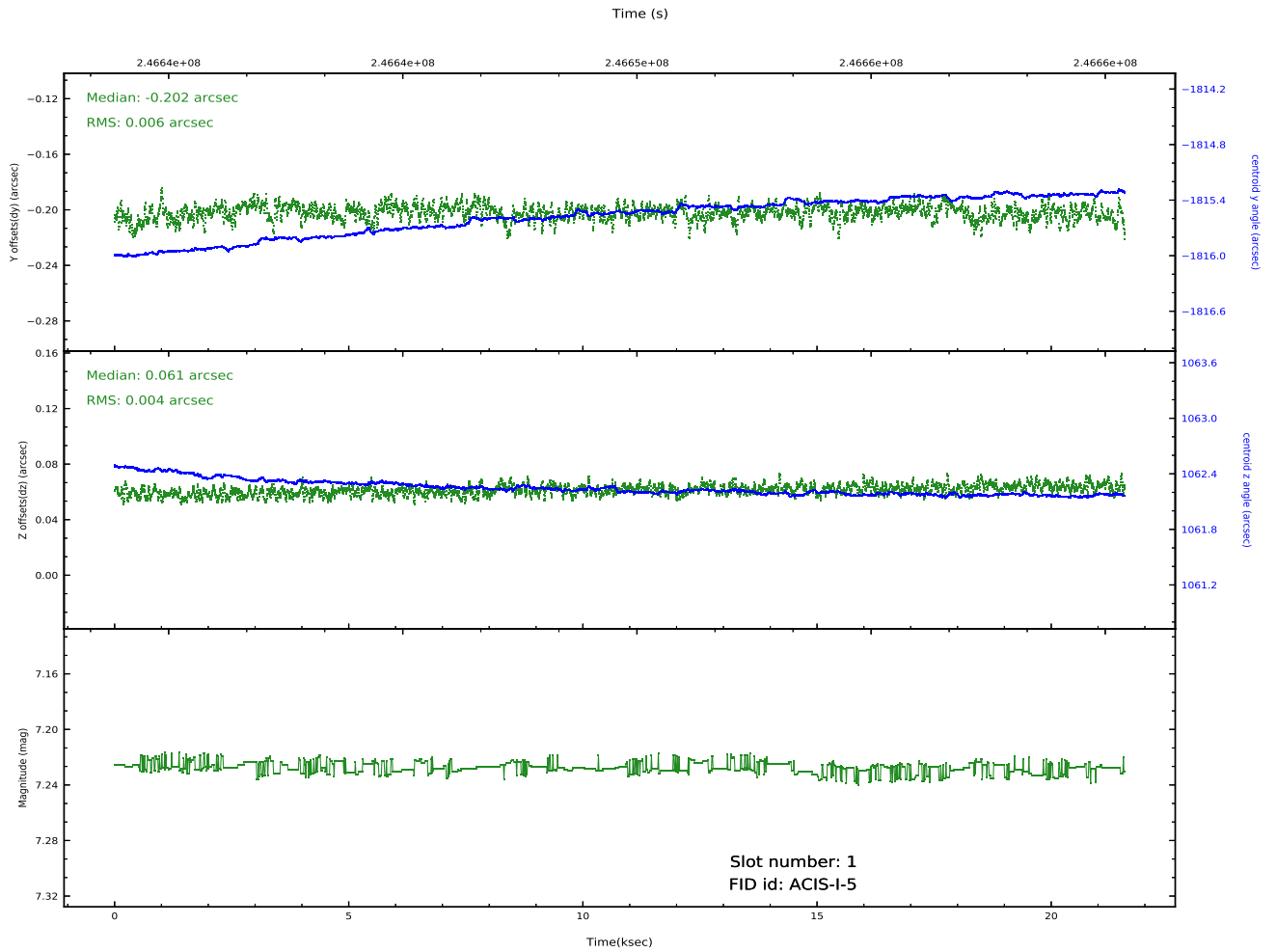
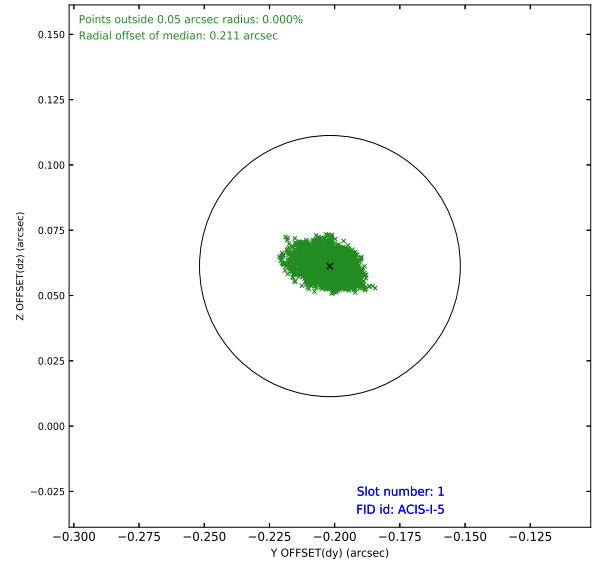
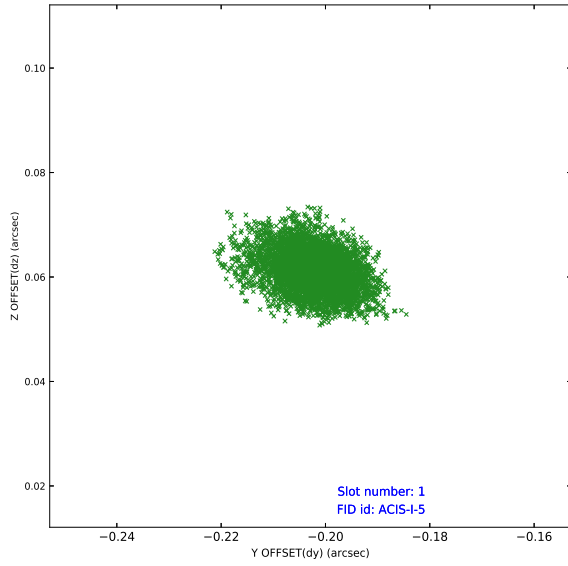


## 2.5 FID Slots

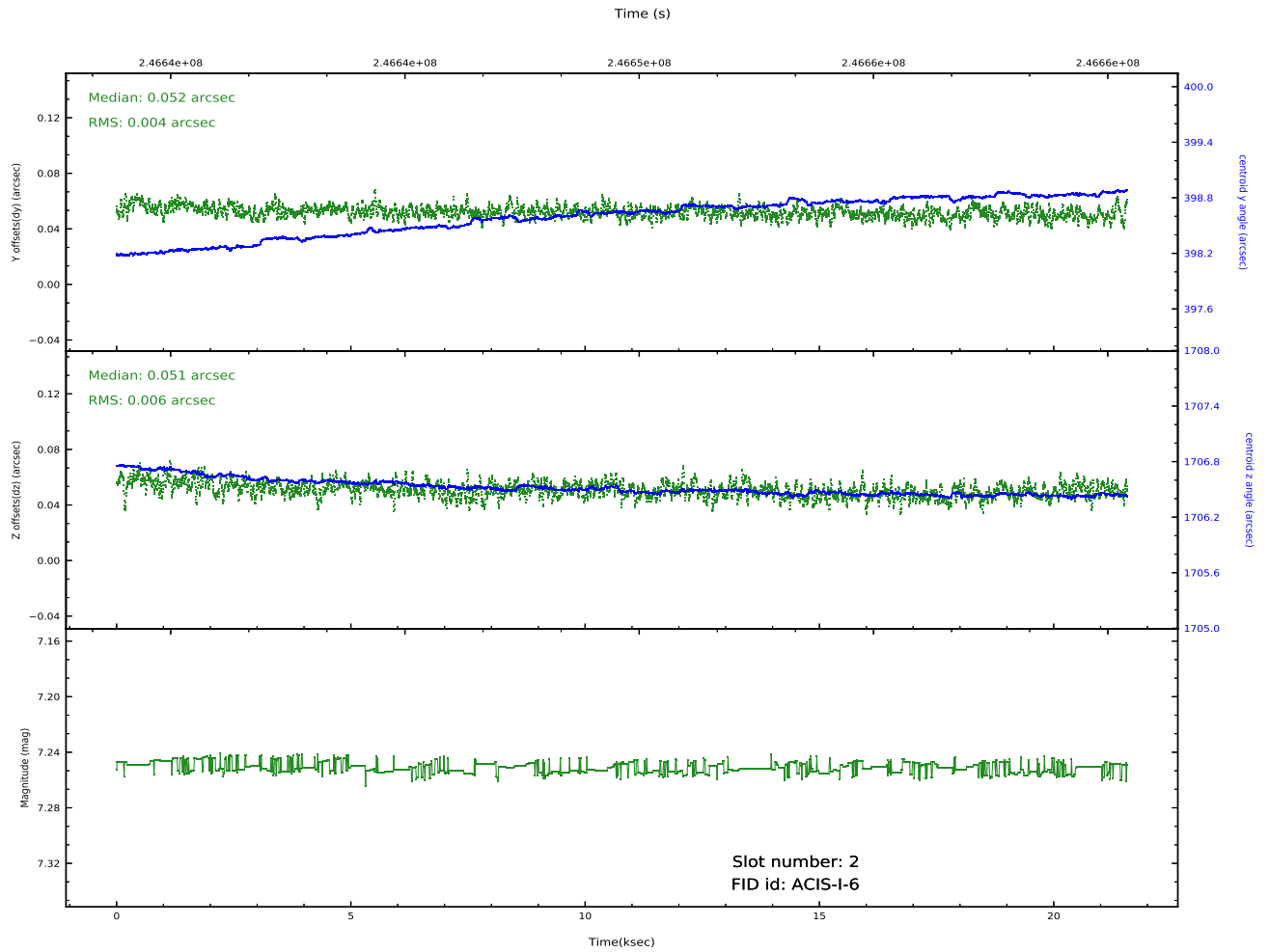
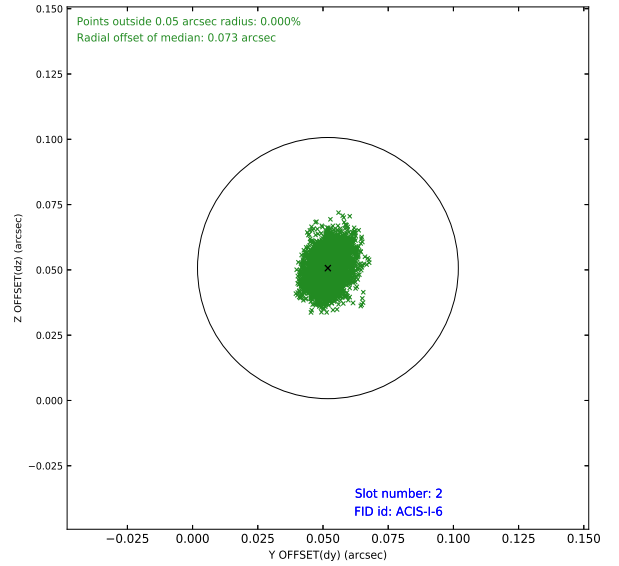
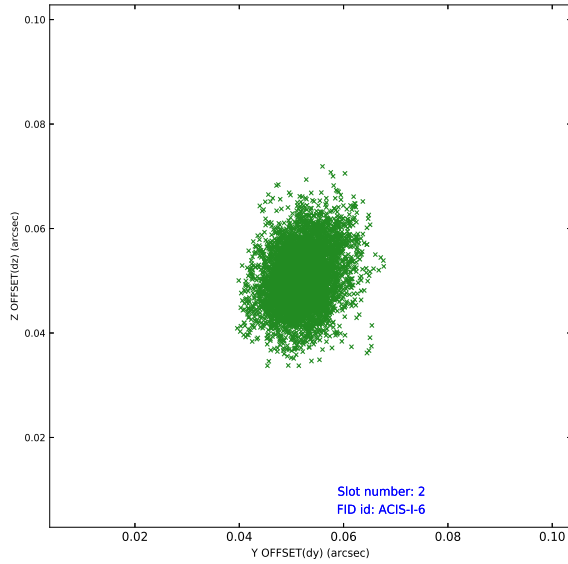
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.95355

## A.2 Comments

Joint Proposal: HST