

# V&V Reference Report

## L2 ASCDS Version : 10.9.1

Observation 6284 - L2 Version 4  
Chandra X-Ray Center

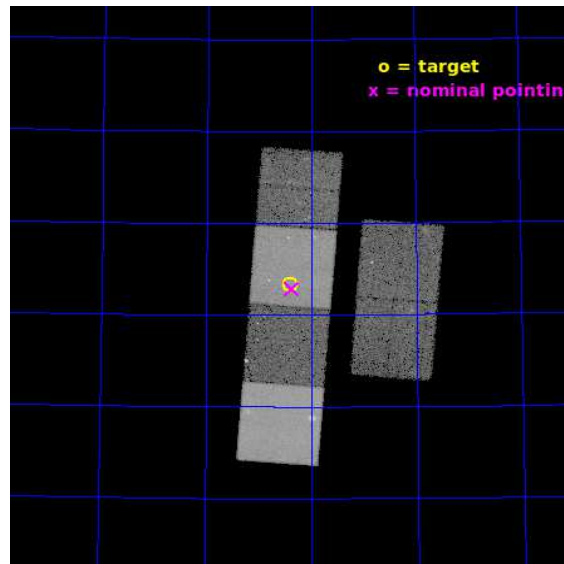
L2 Processing Date : Oct 9 2020

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# 1 Front

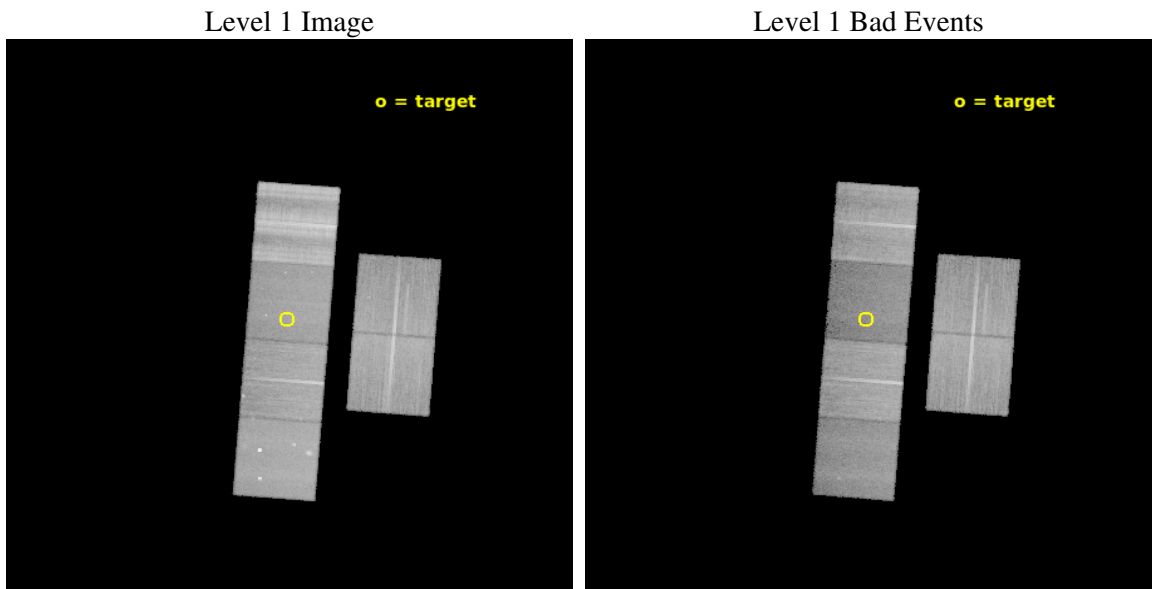
seq_num	500603	Sequence number
obs_id	6284	Observation id
title	Chandra Observation of the Type II <sub>n</sub> Supernova 2005bx	Proposal titl
observer	Prof. Alexei Filippenko	Principal investigator
object	SN 2005bx	Source name
dtycycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.604167	Observer's specified target RA [deg]
dec_targ	68.555389	Observer's specified target Dec [deg]
ra_nom	207.59240022428	Nominal RA [deg]
dec_nom	68.54770115805	Nominal Dec [deg]
roll_nom	274.40988310089	Nominal Roll [deg]
revision	4	Processing version of data
ontime	28742.399892926	Sum of GTIs [s]
livetime	28378.446318887	Livetime [s]
ontime2	28742.399892926	Sum of GTIs [s]
ontime3	28735.91808188	Sum of GTIs [s]
ontime5	28742.399892926	Sum of GTIs [s]
ontime6	28742.399892926	Sum of GTIs [s]
ontime7	28742.399892926	Sum of GTIs [s]
ontime8	28735.91808185	Sum of GTIs [s]
l2events	274900	Number of level 2 events



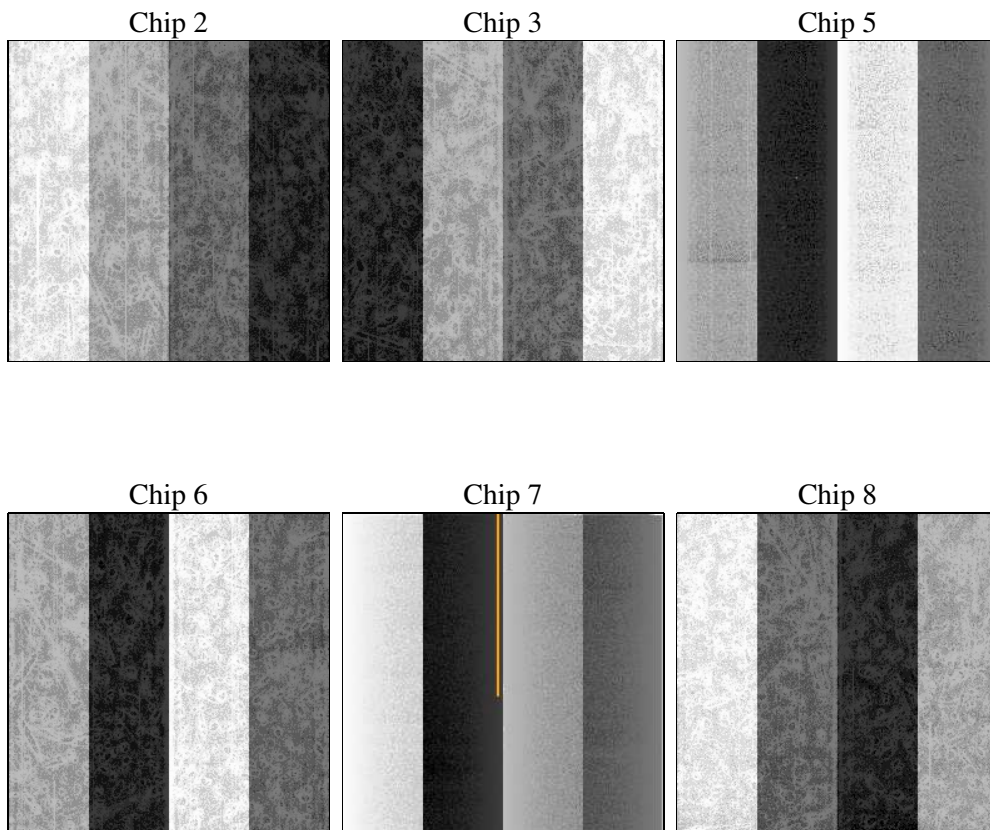
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	28600.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	28742.399892926	Sum of GTIs [s]
caldbver	4.9.2	&#160	ontime2	28742.399892926	Sum of GTIs [s]
date	2020-10-09T14:48:03	Date and time of file creation	ontime3	28735.91808188	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	28742.399892926	Sum of GTIs [s]
			ontime6	28742.399892926	Sum of GTIs [s]
			ontime7	28742.399892926	Sum of GTIs [s]
			ontime8	28735.91808185	Sum of GTIs [s]
			l1events	1443070	Number of level 1 events

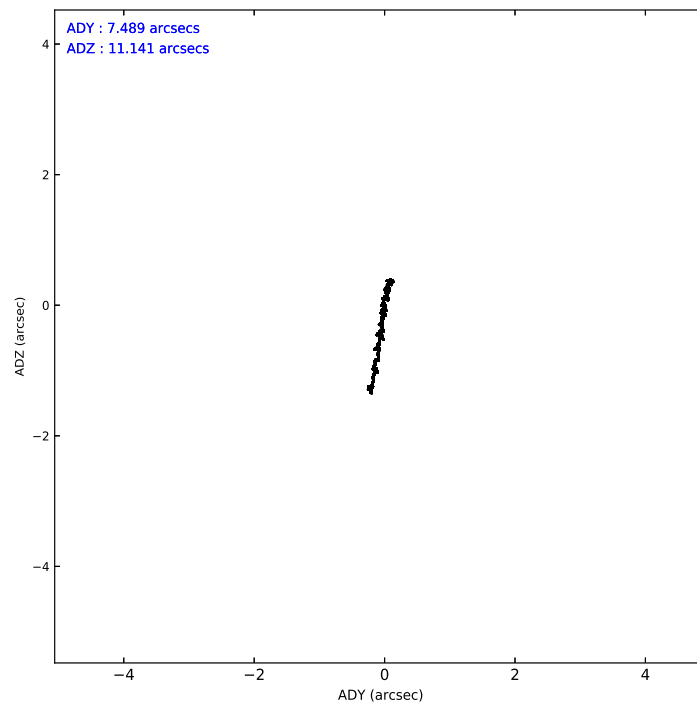
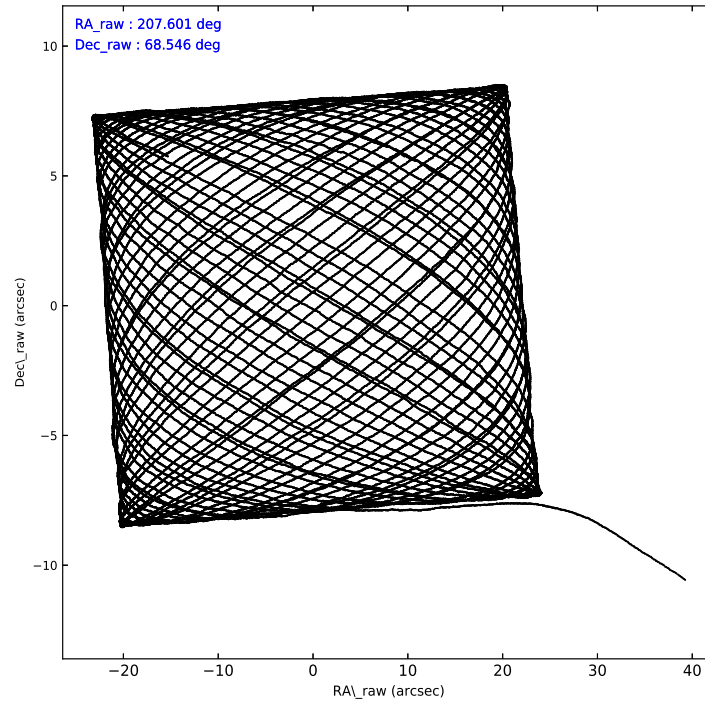
### 2.1.4 Events

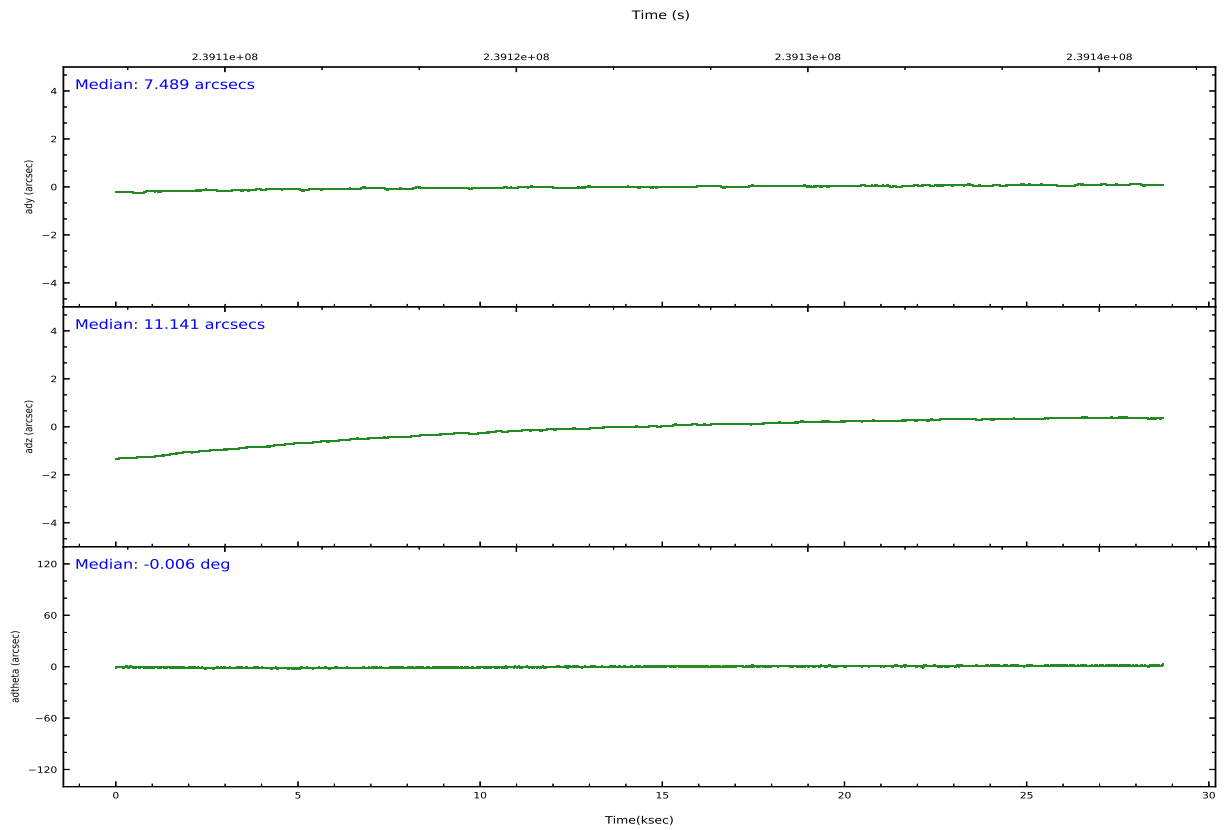
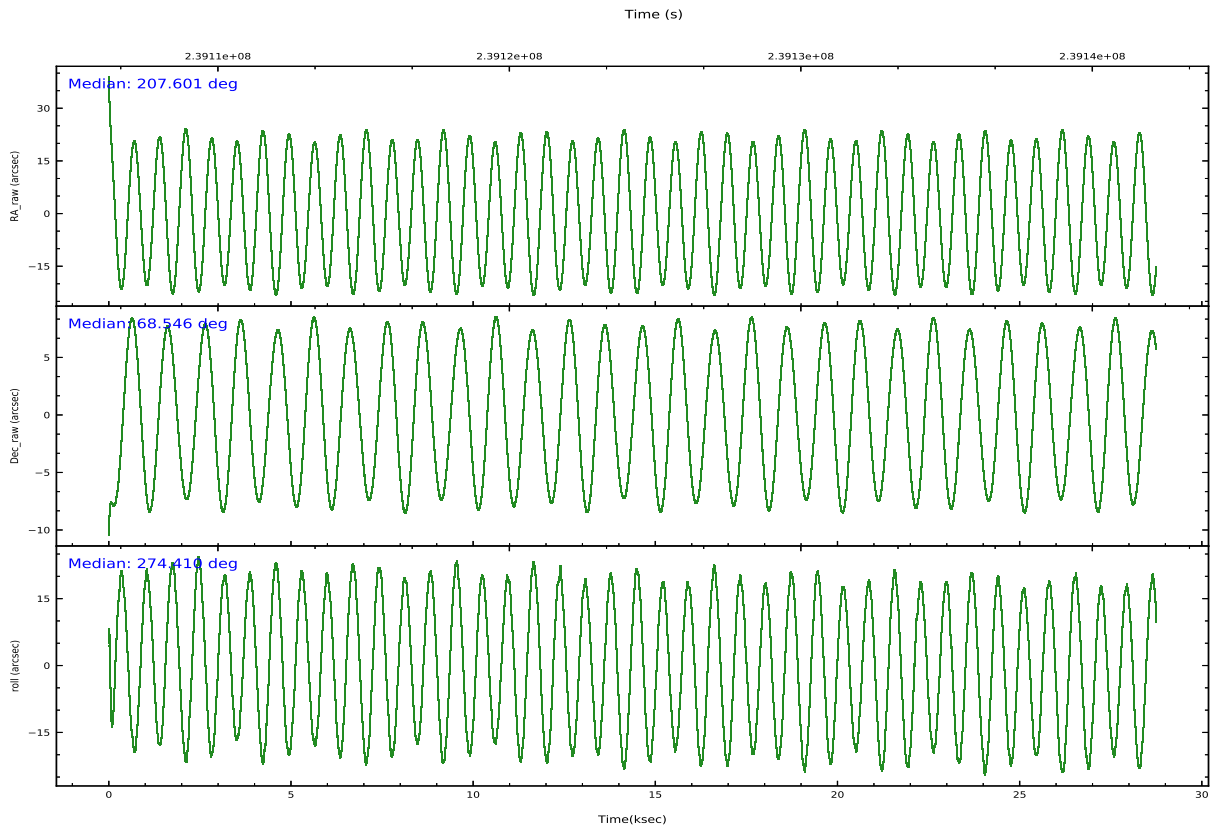
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	232215	198050	242445	218114	181307	370939	grade 0 events	9792	7672	19335	9625	9997	45592
rejected events	208418	179343	113035	194822	89961	208449		4%	3%	7%	4%	5%	12%
rejected %	89%	90%	46%	89%	49%	56%	grade 1 events	145	95	502	131	185	373
								0%	0%	0%	0%	0%	0%
							grade 2 events	6852	4147	40198	6057	20843	29418
								2%	2%	16%	2%	11%	7%
							grade 3 events	1967	2051	6725	2080	9413	26660
								0%	1%	2%	0%	5%	7%
							grade 4 events	2421	2006	6353	2154	9474	23708
								1%	1%	2%	0%	5%	6%
							grade 5 events	4781	6001	18527	6086	18503	10822
								2%	3%	7%	2%	10%	2%
							grade 6 events	3699	3499	61800	4254	45062	43292
								1%	1%	25%	1%	24%	11%
							grade 7 events	202558	172579	89005	187727	67830	191074
								87%	87%	36%	86%	37%	51%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	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	207.558602	207.59240022428	Subarray requested	NONE	NONE
[deg] Pointing Dec	68.568024	68.54770115805	Alternating exposures requested	N	N
[deg] Pointing Roll	274.291407	274.40988310089	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	239109153.184000	239107576.7634			
Observation start date	2005-07-30T11:11:29	2005-07-30T10:46:16			
[s] Observation end time (MET)	239137753.184000	239139511.15236			
Observation end date	2005-07-30T19:08:09	2005-07-30T19:38:31			
Read mode	TIMED	TIMED			

## 2.3 Aspect





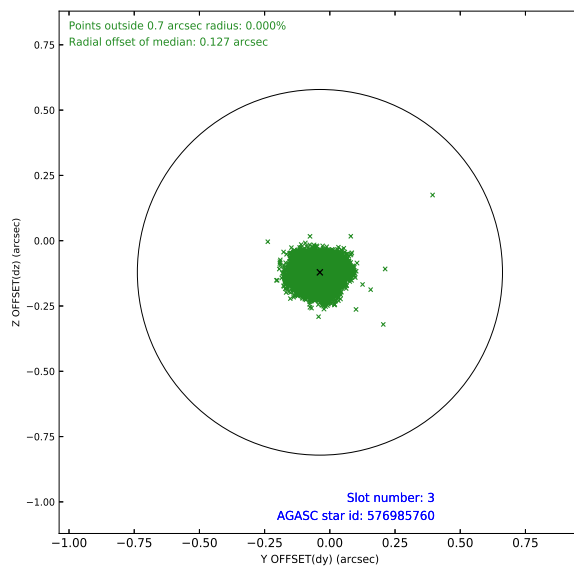
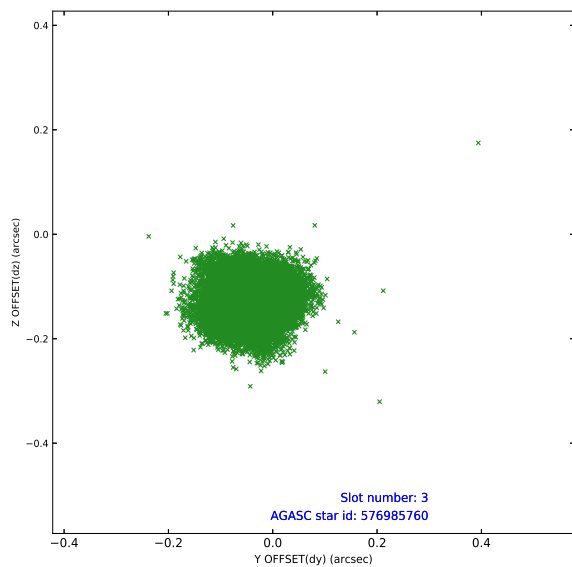
### Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	7011	1.000	-0.070	-0.049	0.013	0.020	0.000000	0.000000	-760.25	-1732
1	FID		ACIS-S-4	7.20	7011	1.000	0.146	0.047	0.013	0.020	0.000000	0.000000	2153.15	176
2	FID		ACIS-S-5	7.23	7012	1.000	-0.108	0.012	0.007	0.012	0.000000	0.000000	-1813.08	169
3	GUIDE	used	576985760	7.40	14023	1.000	-0.038	-0.121	0.068	0.103	207.721529	69.153363	-2085.61	365
4	GUIDE	used	577110792	8.43	14019	1.000	0.010	0.103	0.066	0.104	209.170624	68.072963	1911.02	2030
5	GUIDE	used	577120680	9.16	14017	1.000	0.021	0.098	0.109	0.171	208.850719	68.501563	348.87	1683
6	GUIDE	used	576989584	8.74	14023	1.000	-0.085	0.104	0.082	0.131	205.742357	68.734271	-808.79	-2316
7	GUIDE	used	576992152	8.45	14023	1.000	0.094	-0.172	0.062	0.098	207.803675	68.326269	891.76	259

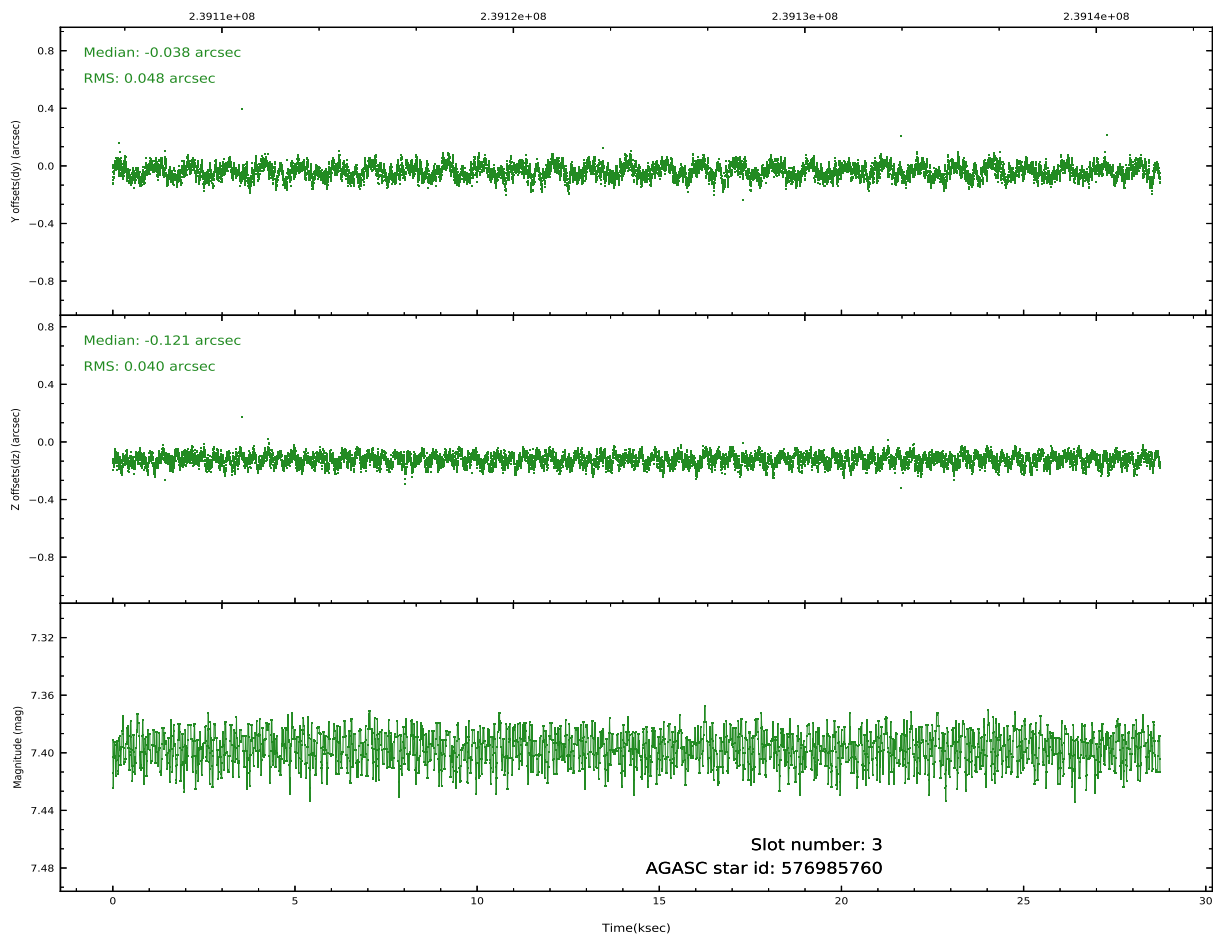
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## 2.4 Star Slots

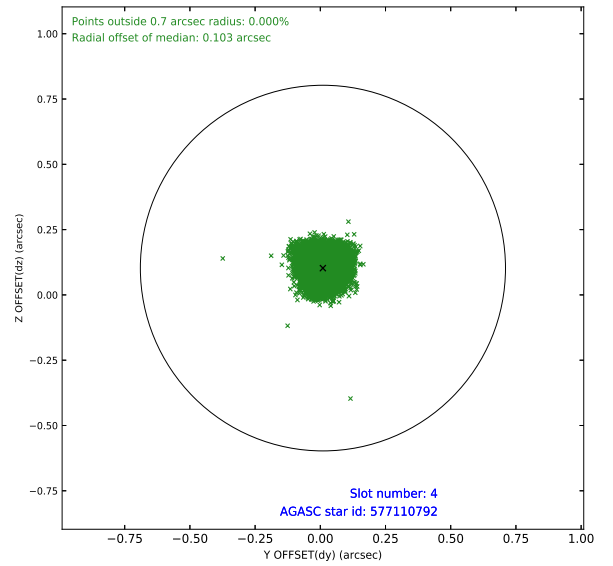
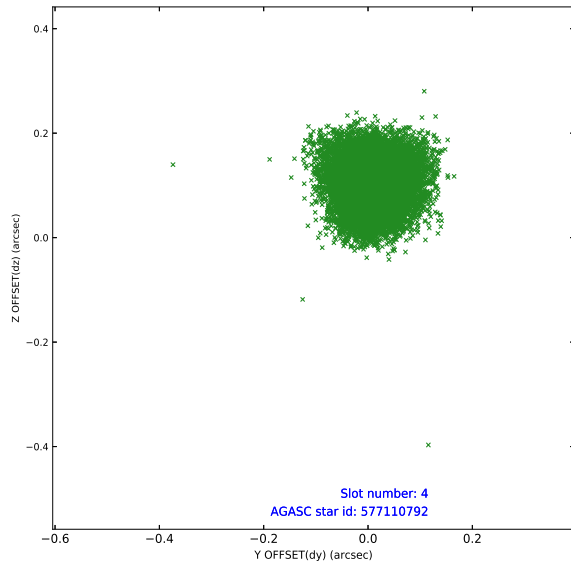
### 2.4.1 Slot 3



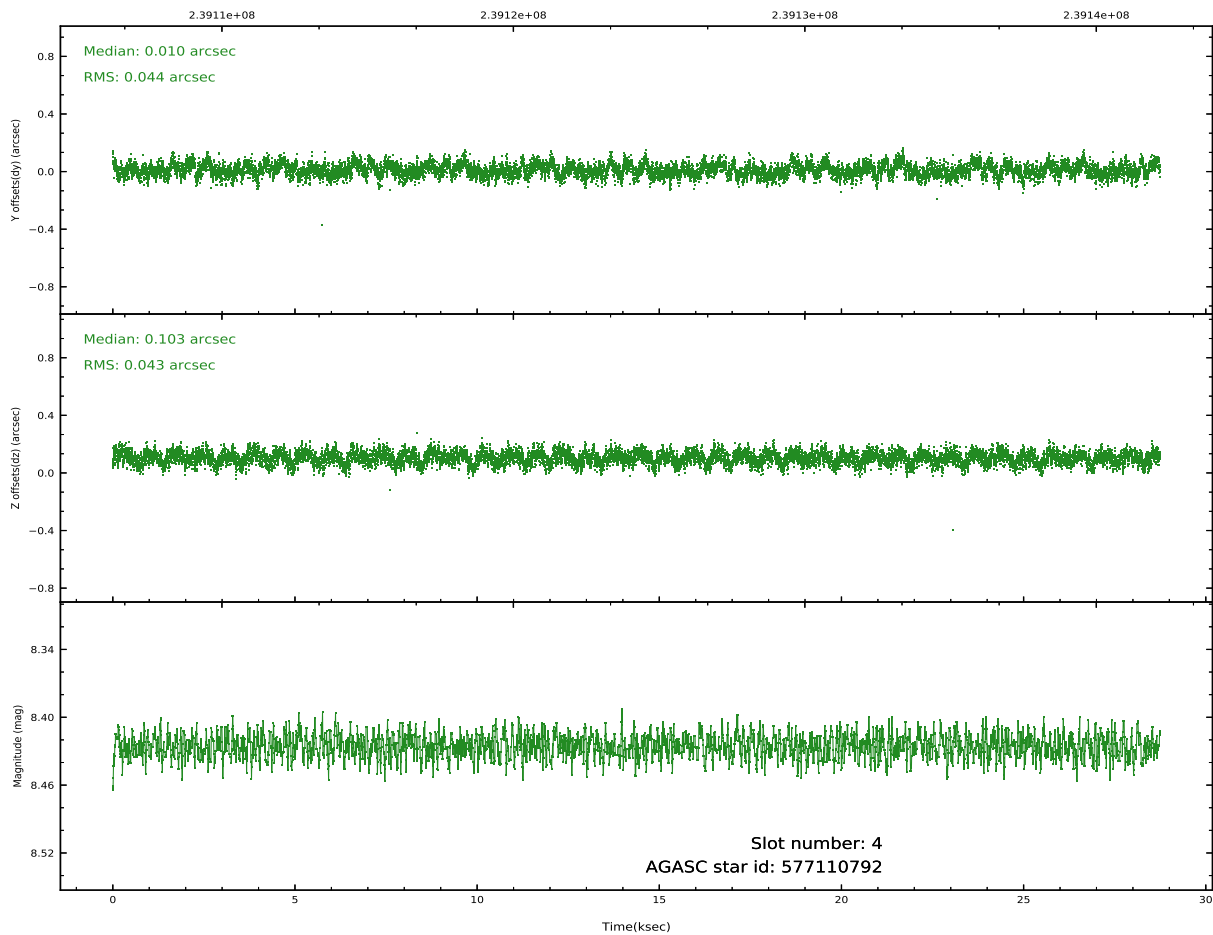
Time (s)



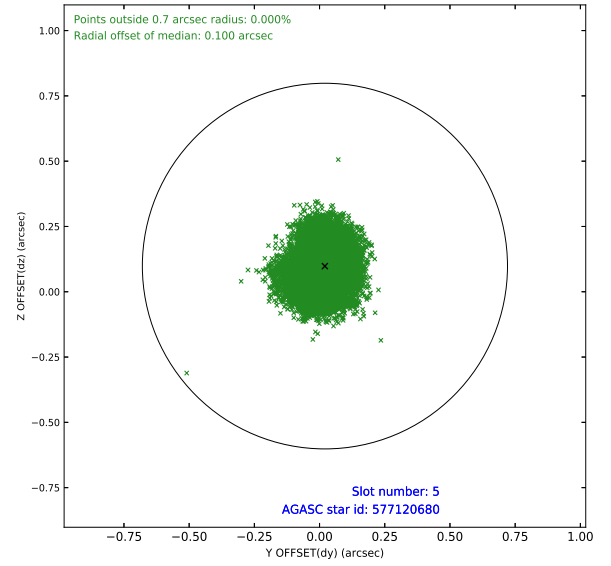
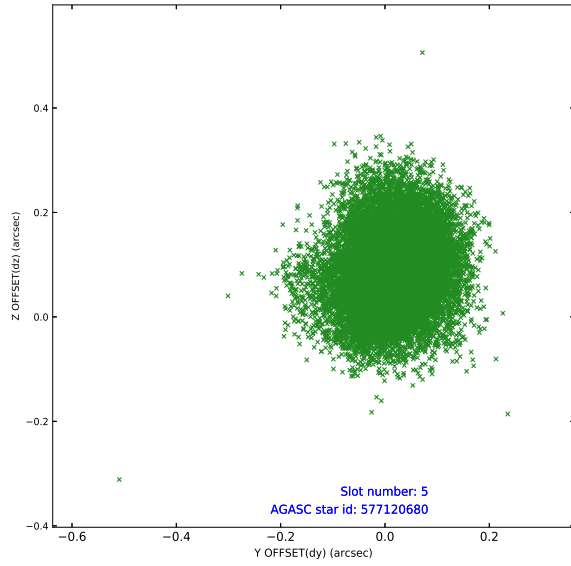
## 2.4.2 Slot 4



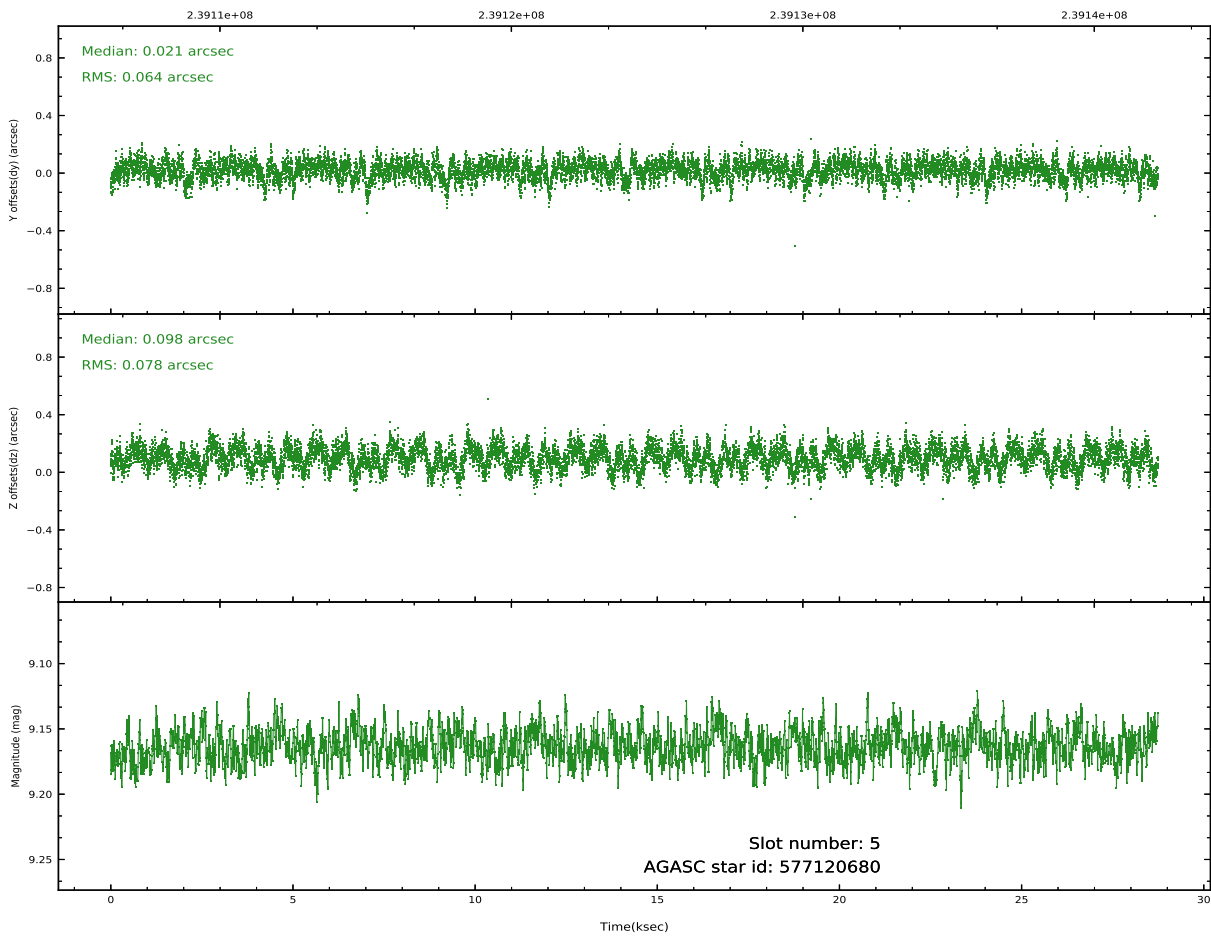
Time (s)



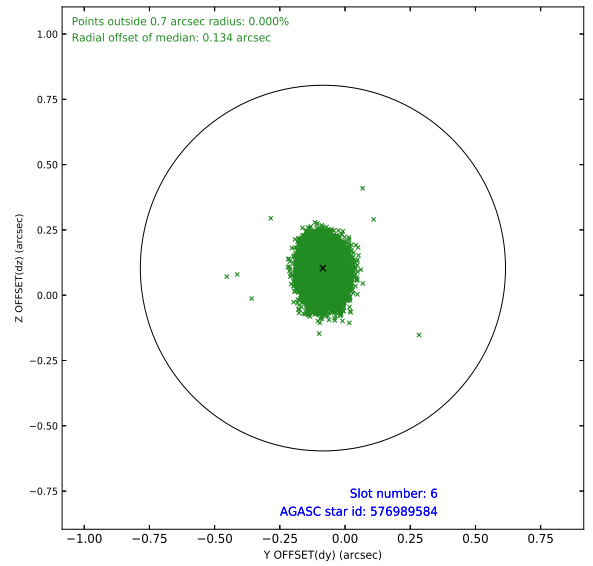
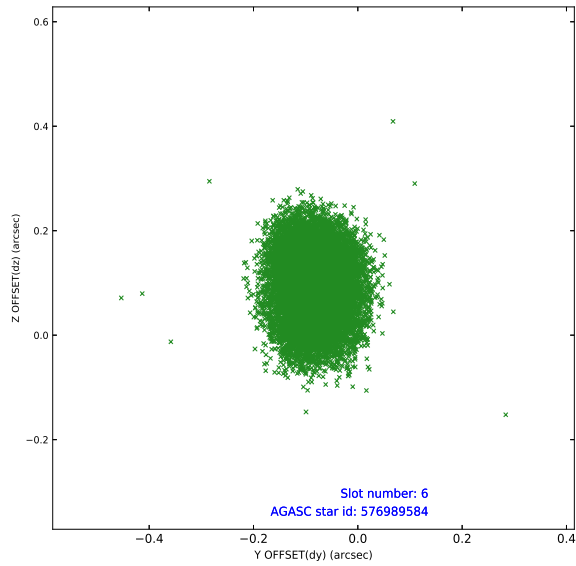
### 2.4.3 Slot 5



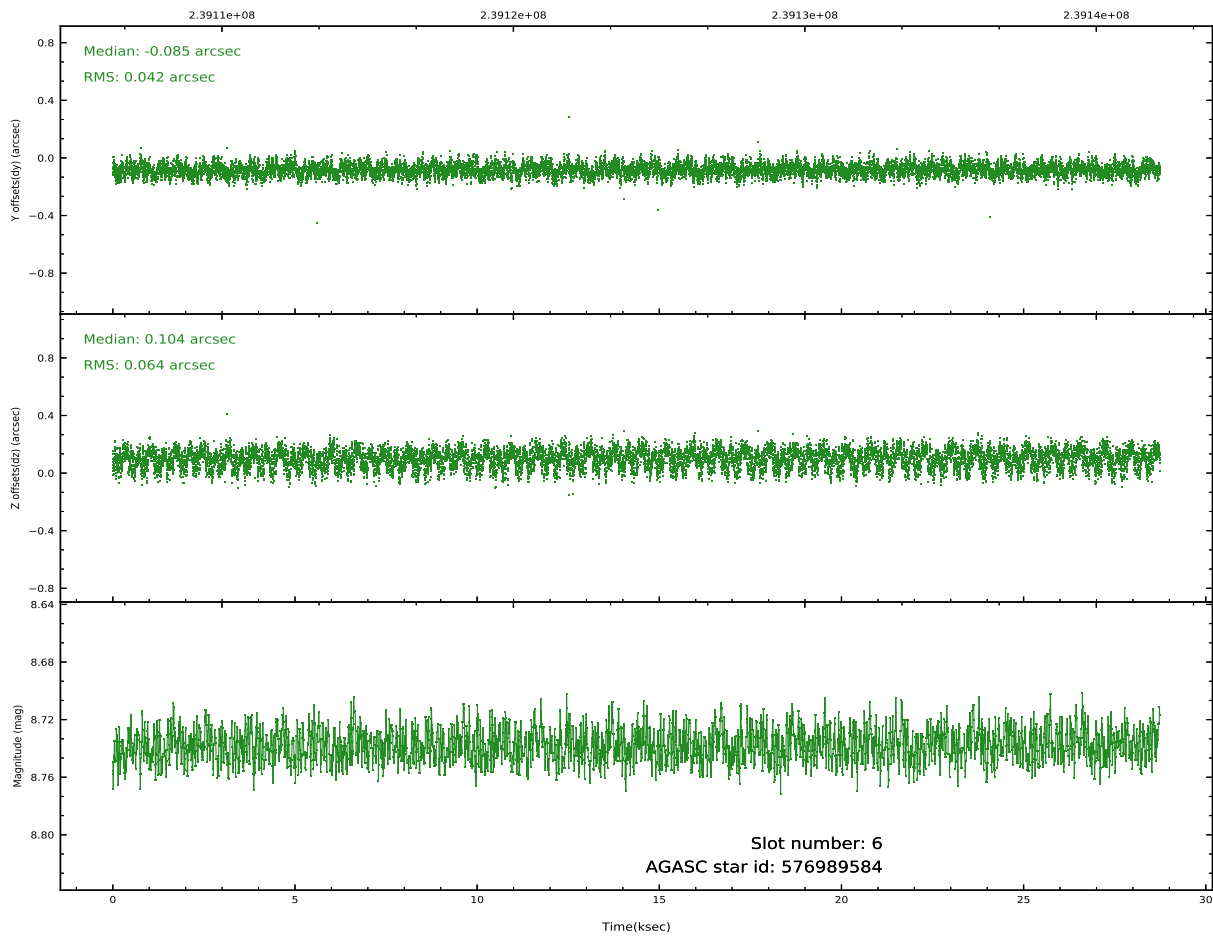
Time (s)



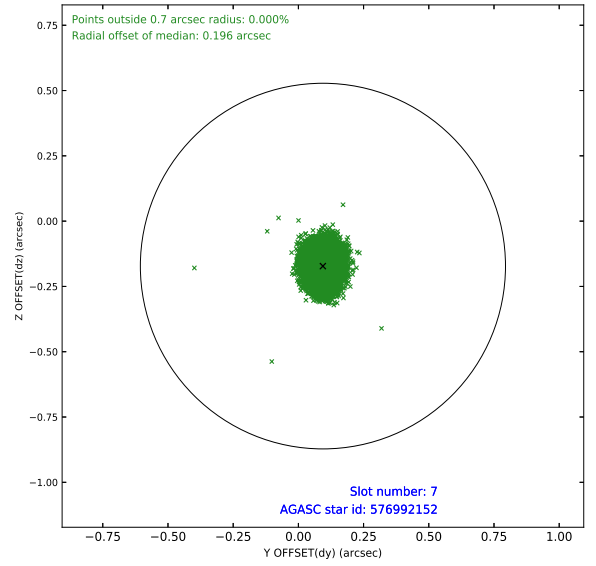
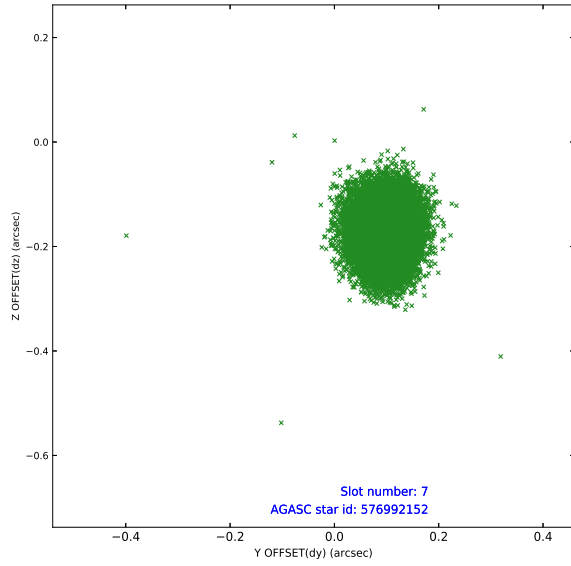
## 2.4.4 Slot 6



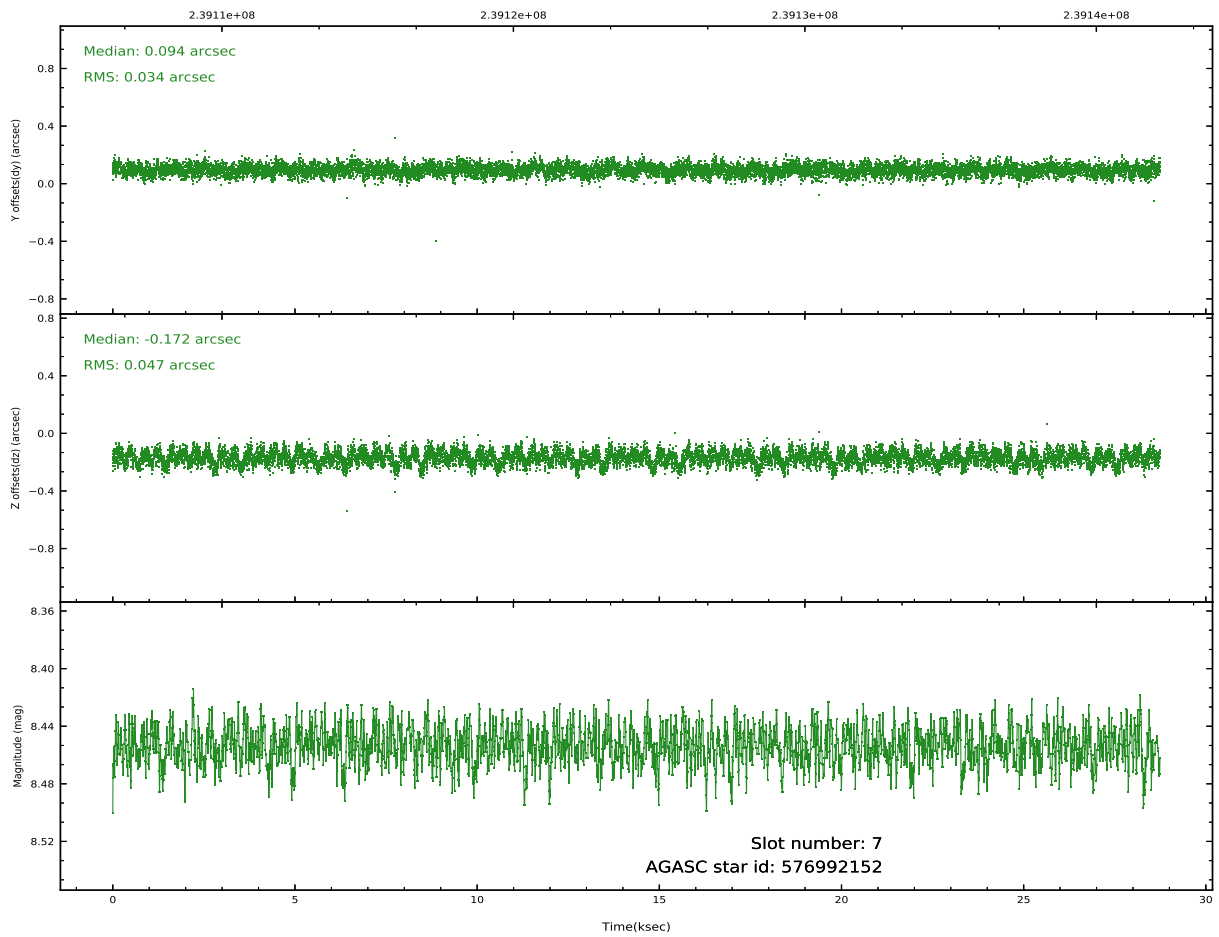
Time (s)



## 2.4.5 Slot 7

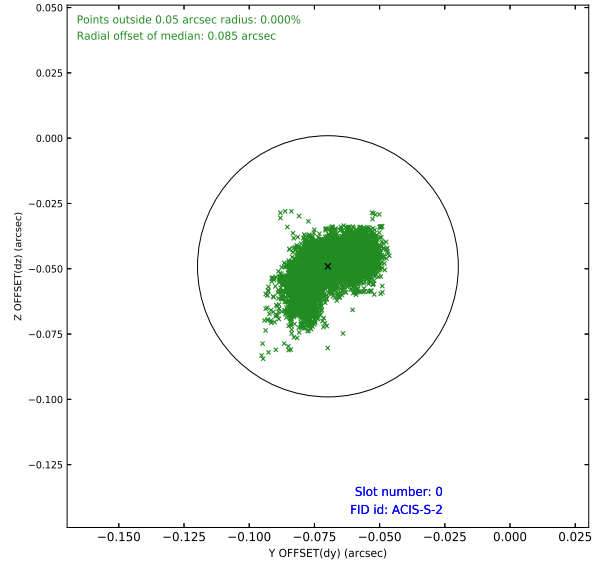
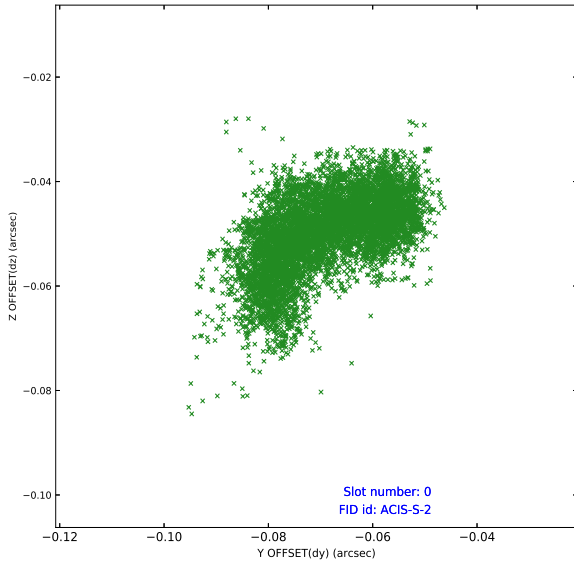


Time (s)

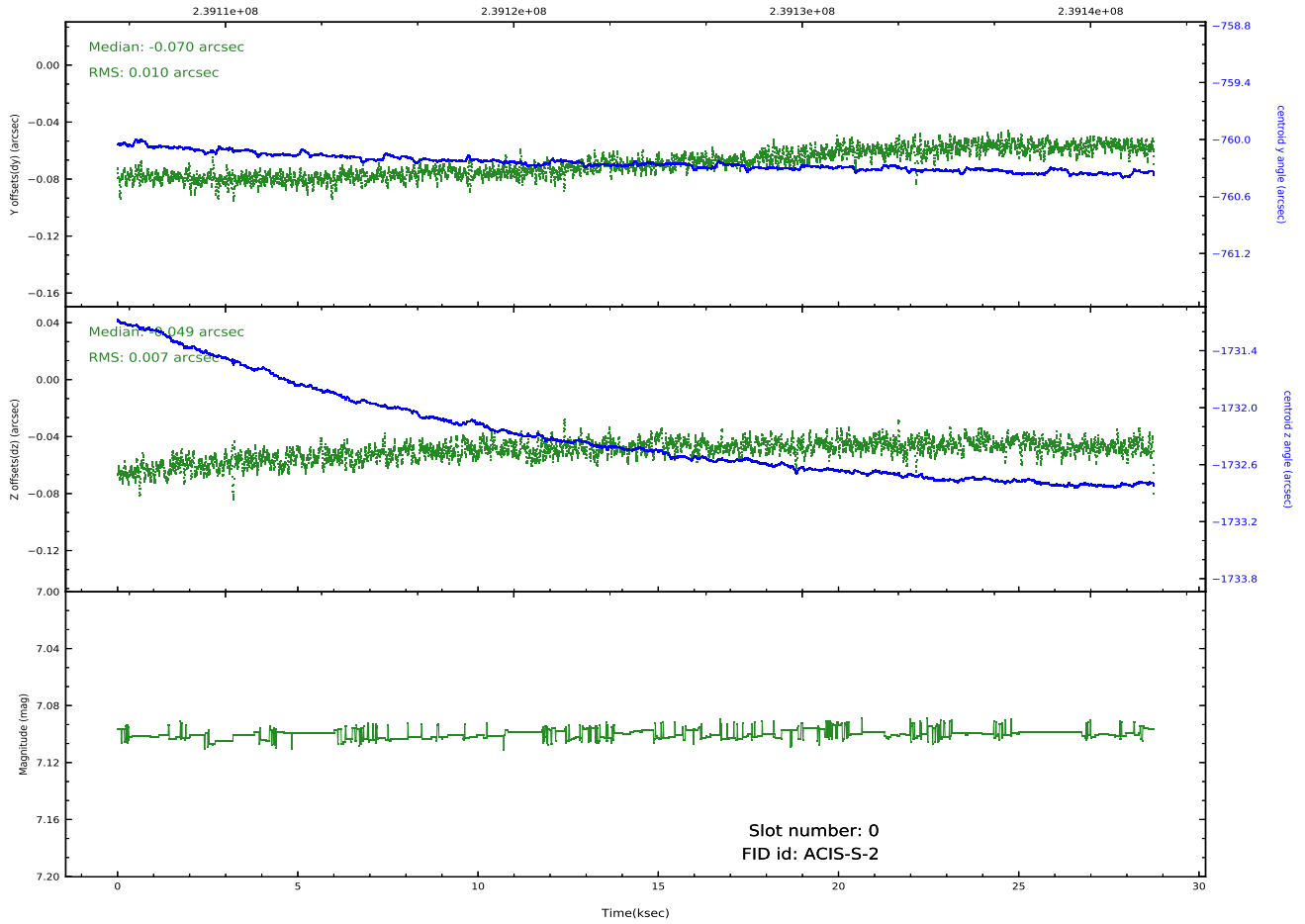


## 2.5 FID Slots

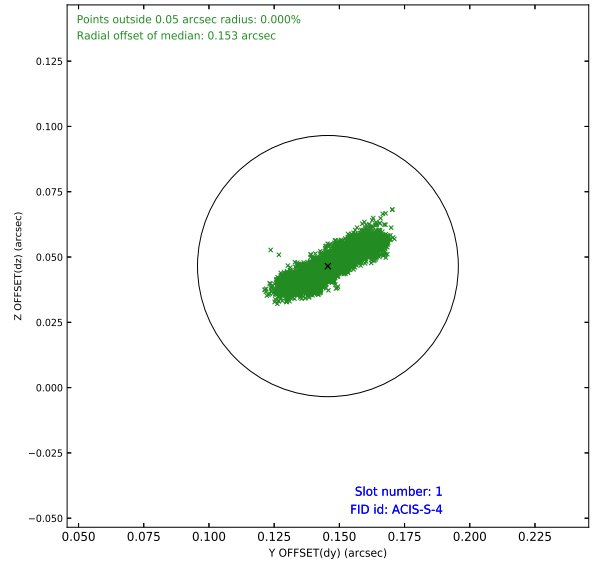
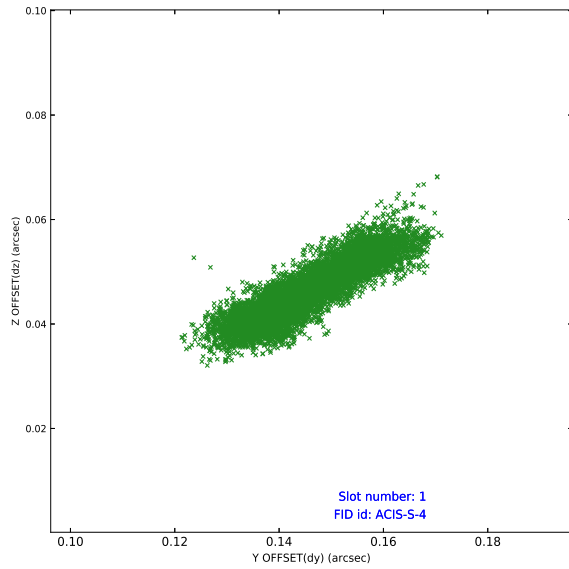
### 2.5.1 Slot 0



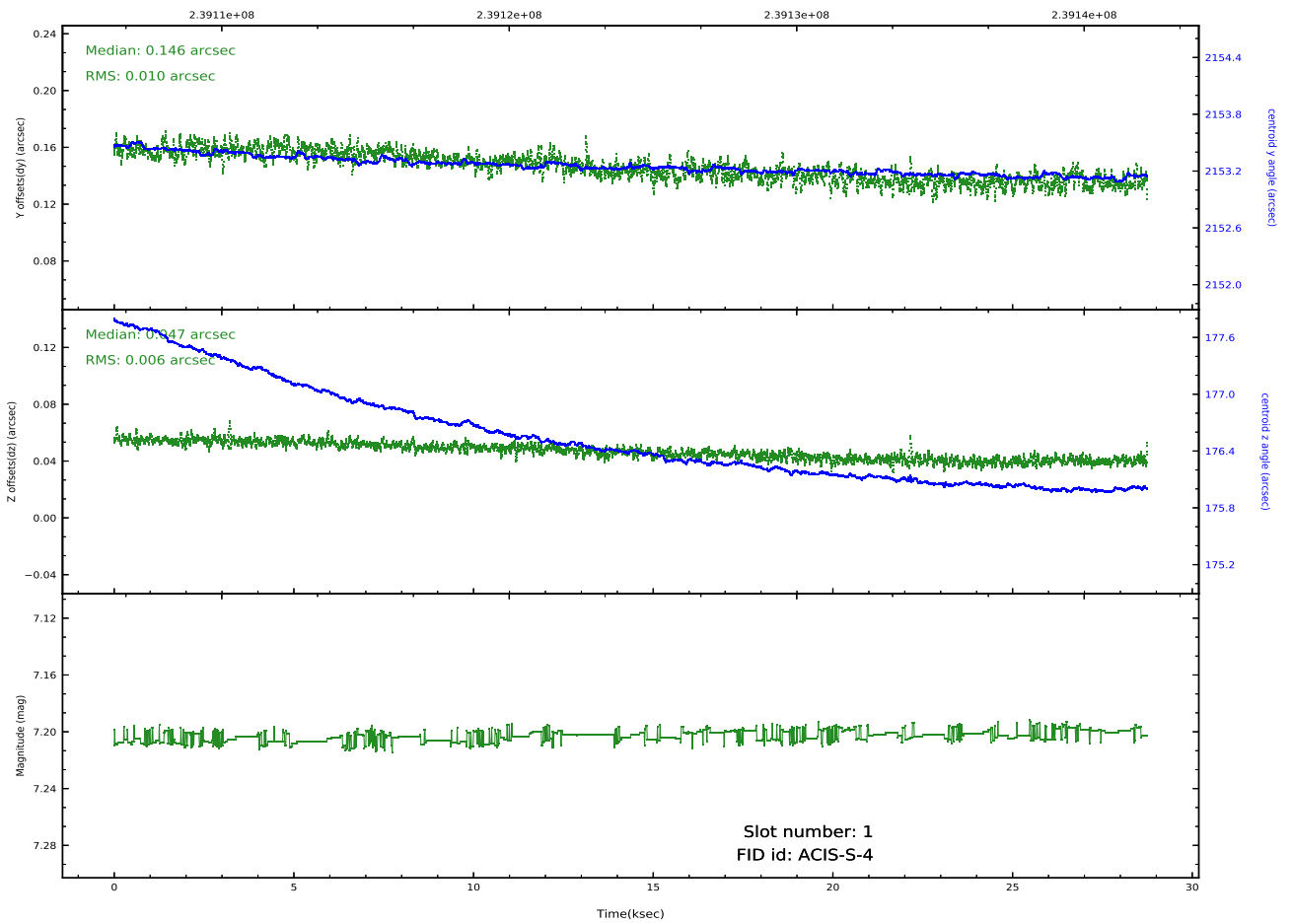
Time (s)



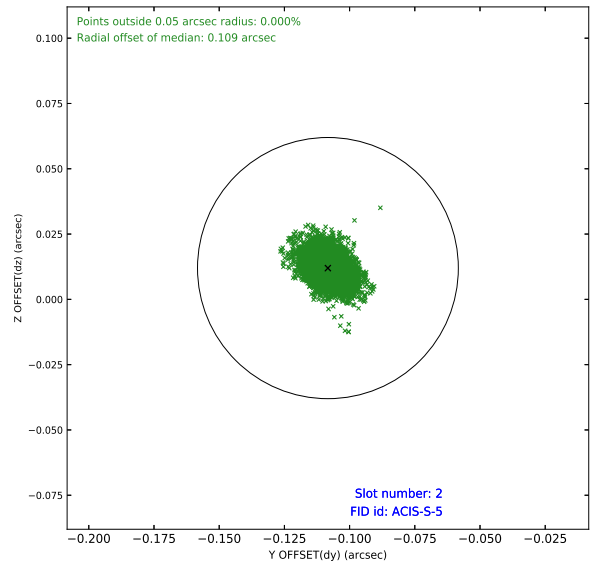
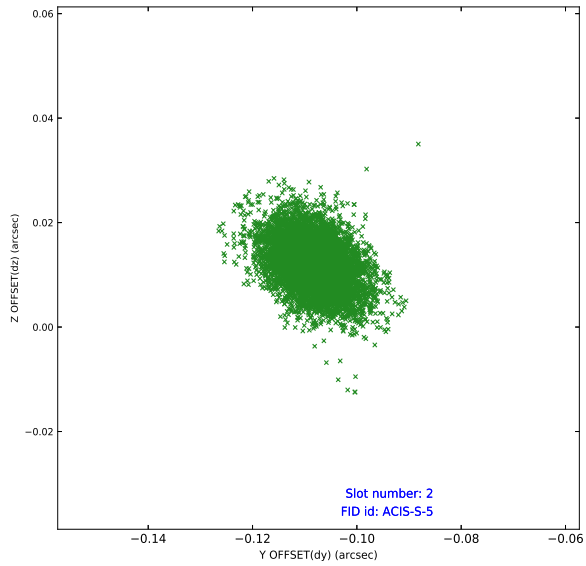
## 2.5.2 Slot 1



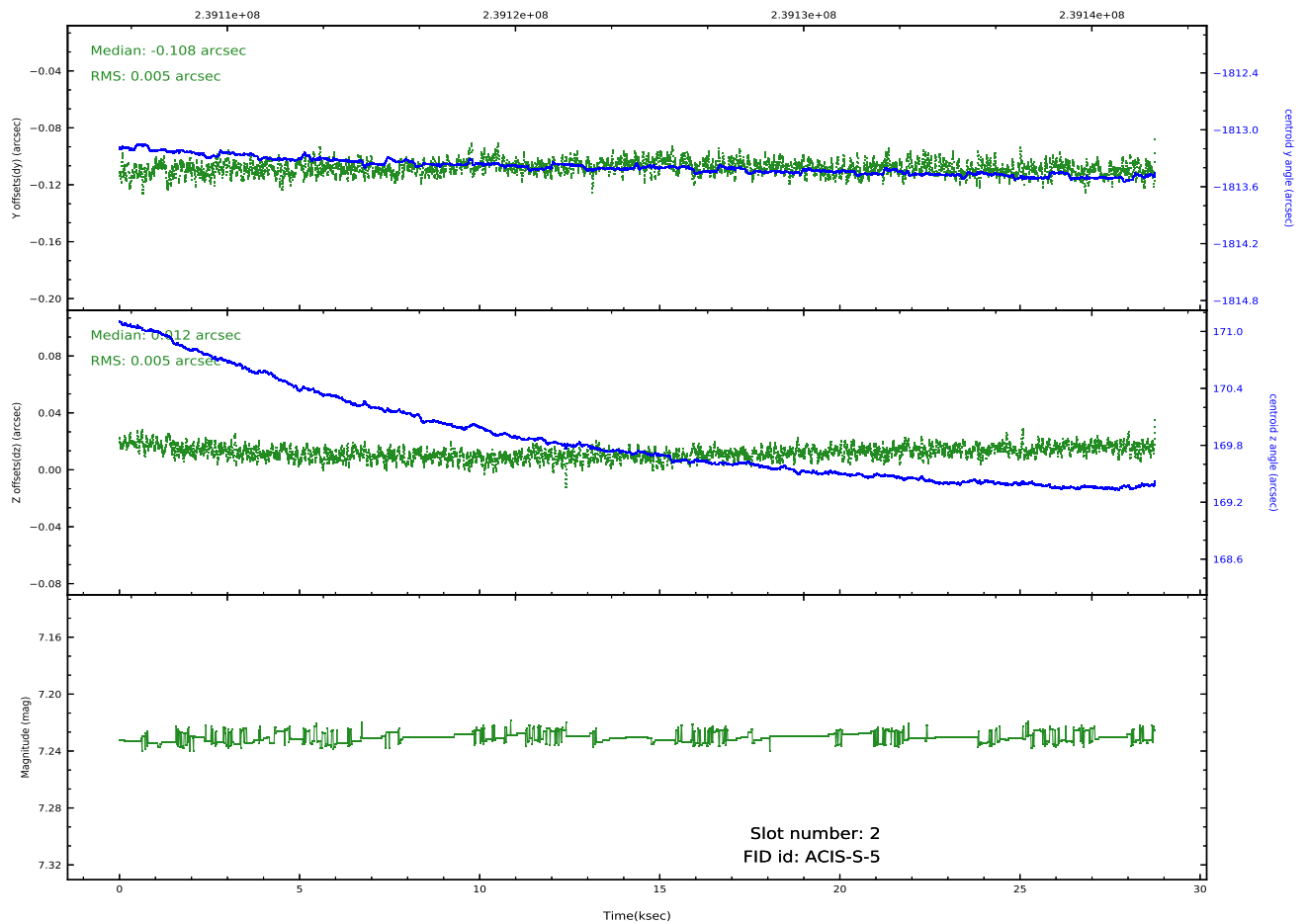
Time (s)



### 2.5.3 Slot 2



Time (s)



# A Summary

## A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.78804

## A.2 Comments

Charge time:

Charge time for this ObsId remains at previous value of 29.78804 ks.