

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4706 - L2 Version 4
Chandra X-Ray Center

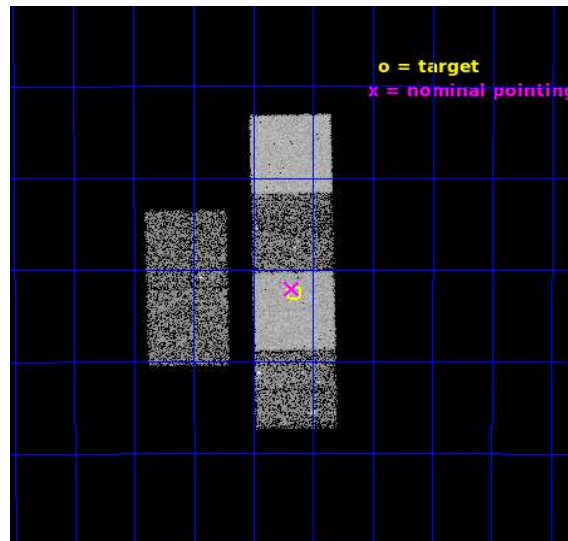
L2 Processing Date : Sep 28 2020

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1 Front

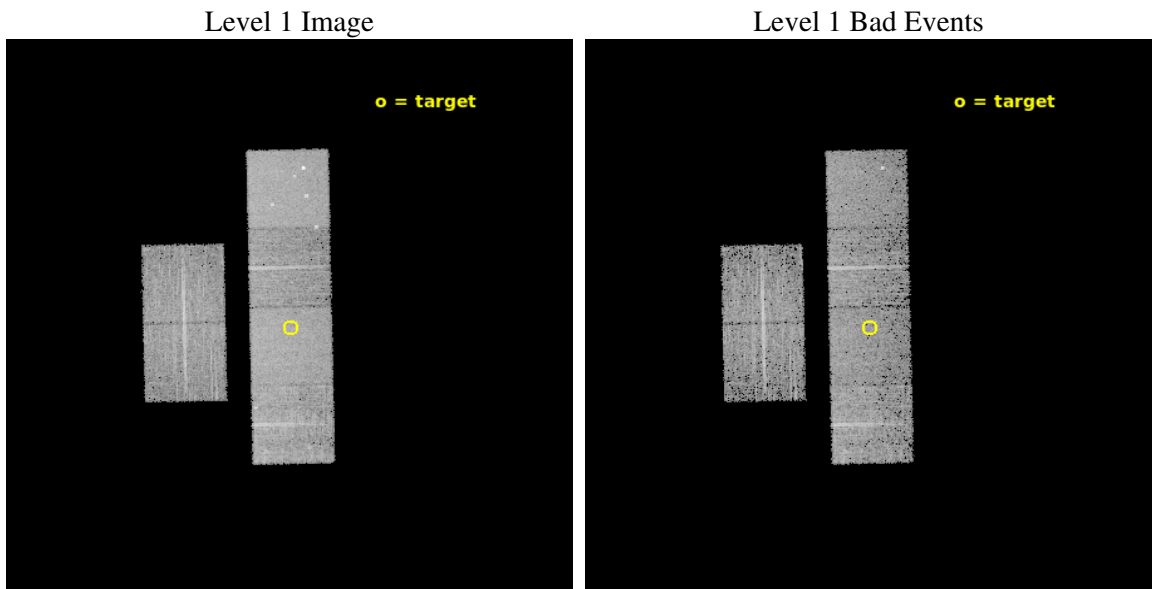
seq_num	600361	Sequence number
obs_id	4706	Observation id
title	Using the Sculptor Dwarf Spheroidal Galaxy to Constrain X-ray Binary Production in Population II	Proposal title
observer	Thomas Maccarone	Principal investigator
object	SCULPTOR DWARF SPHEROIDAL	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	15.039167	Observer's specified target RA [deg]
dec_targ	-33.708889	Observer's specified target Dec [deg]
ra_nom	15.044321048671	Nominal RA [deg]
dec_nom	-33.701128869176	Nominal Dec [deg]
roll_nom	88.842791265574	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6153.5999770761	Sum of GTIs [s]
livetime	6075.6793889133	Livetime [s]
ontime2	6153.5999770761	Sum of GTIs [s]
ontime3	6153.5999770761	Sum of GTIs [s]
ontime5	6153.5999770761	Sum of GTIs [s]
ontime6	6153.5999770761	Sum of GTIs [s]
ontime7	6153.5999770761	Sum of GTIs [s]
ontime8	6153.5999770761	Sum of GTIs [s]
l2events	67583	Number of level 2 events



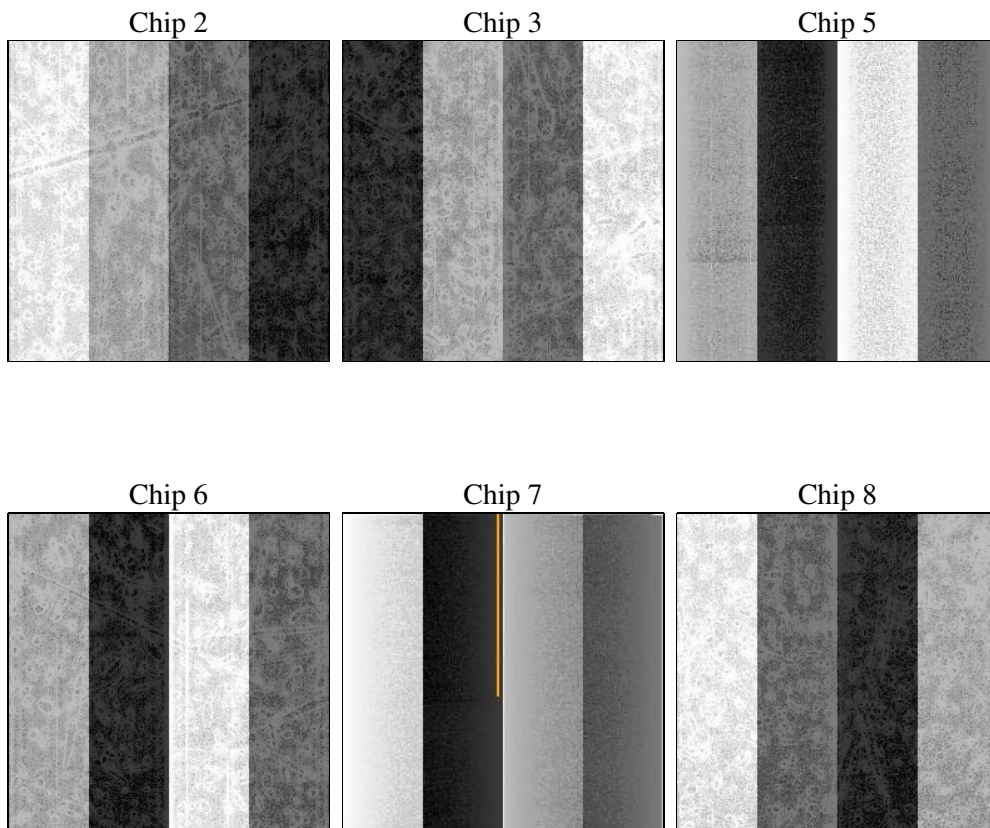
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	6153.5999770761	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	6153.5999770761	Sum of GTIs [s]
date	2020-09-28T05:57:47	Date and time of file creation	ontime3	6153.5999770761	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	6153.5999770761	Sum of GTIs [s]
			ontime6	6153.5999770761	Sum of GTIs [s]
			ontime7	6153.5999770761	Sum of GTIs [s]
			ontime8	6153.5999770761	Sum of GTIs [s]
			l1events	301034	Number of level 1 events

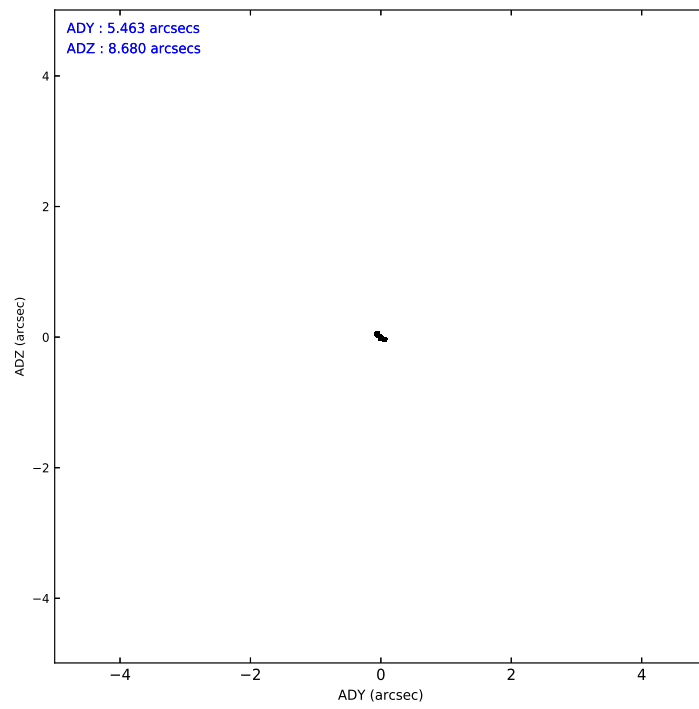
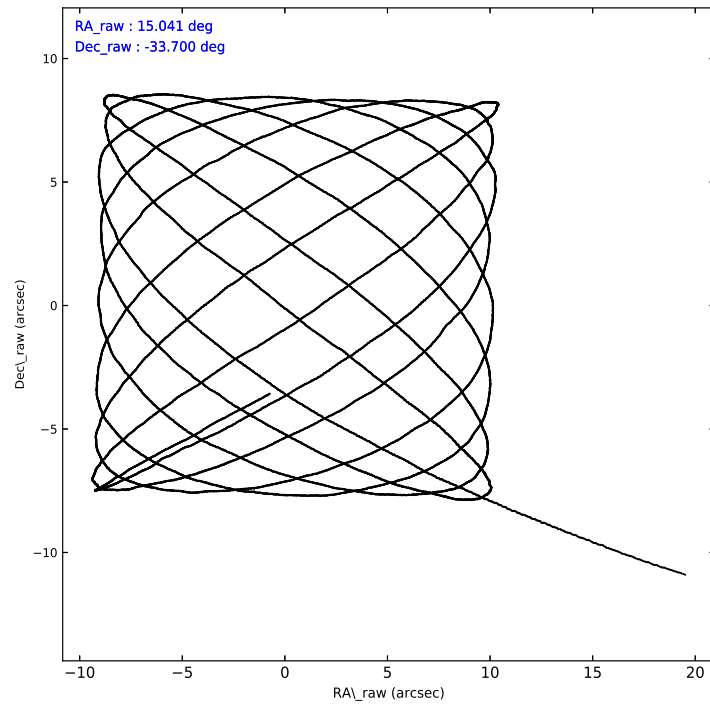
2.1.4 Events

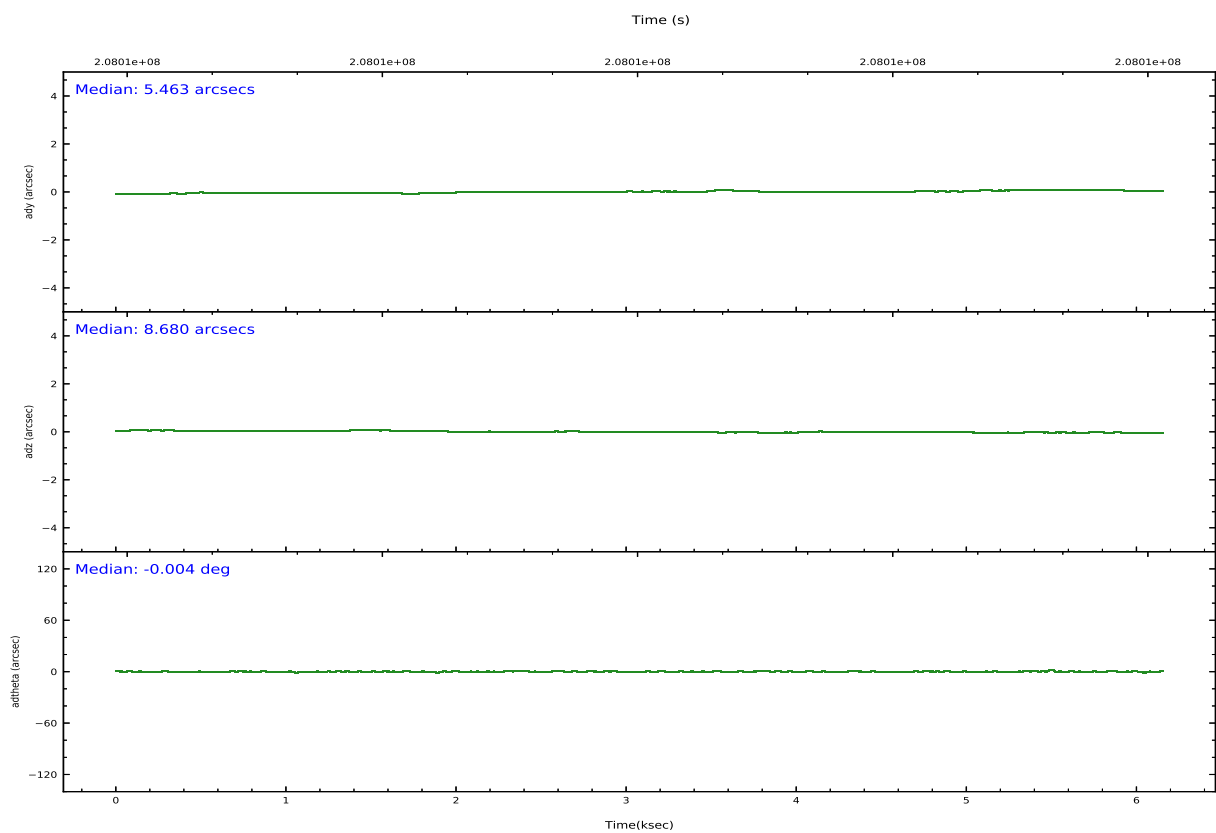
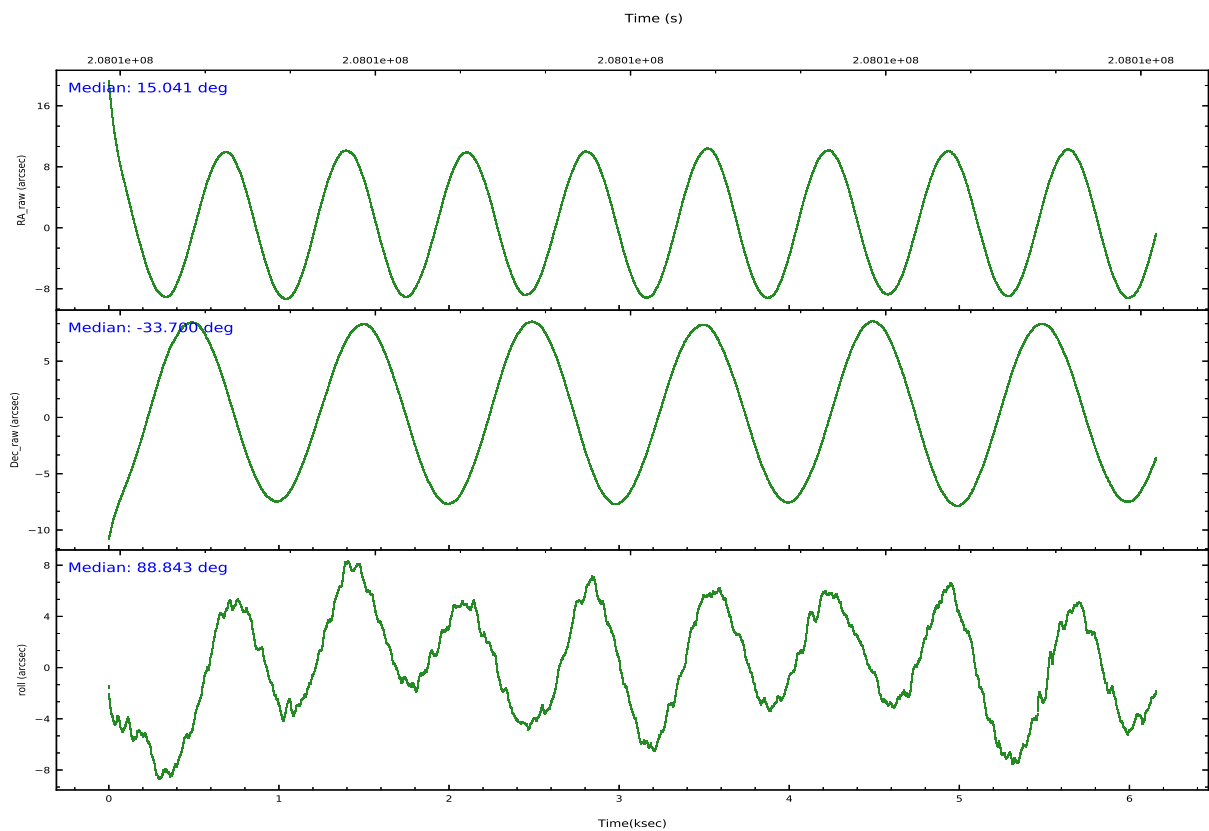
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	41175	40798	64683	42124	57472	54782	grade 0 events	2305	2279	3307	2138	2158	4033
rejected events	36105	35856	35314	37035	34113	43490		5%	5%	5%	5%	3%	7%
rejected %	87%	87%	54%	87%	59%	79%	grade 1 events	27	30	87	20	50	32
								0%	0%	0%	0%	0%	0%
							grade 2 events	1050	950	8995	1080	4590	2460
								2%	2%	13%	2%	7%	4%
							grade 3 events	479	505	1188	490	2145	1153
								1%	1%	1%	1%	3%	2%
							grade 4 events	475	467	1105	463	2132	1098
								1%	1%	1%	1%	3%	2%
							grade 5 events	1735	1876	4710	1927	5431	2575
								4%	4%	7%	4%	9%	4%
							grade 6 events	826	809	15277	1006	12706	2746
								2%	1%	23%	2%	22%	5%
							grade 7 events	34278	33882	30014	35000	28260	40685
								83%	83%	46%	83%	49%	74%

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	15.057617	15.044321048671	Subarray requested	NONE	NONE
[deg] Pointing Dec	-33.723082	-33.701128869176	Alternating exposures requested	N	N
[deg] Pointing Roll	88.694082	88.84279126557399	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	208006091.184000	208004983.04617			
Observation start date	2004-08-04T11:27:07	2004-08-04T11:09:43			
[s] Observation end time (MET)	208012091.184000	208013137.43404			
Observation end date	2004-08-04T13:07:07	2004-08-04T13:25:37			
Read mode	TIMED	TIMED			

2.3 Aspect



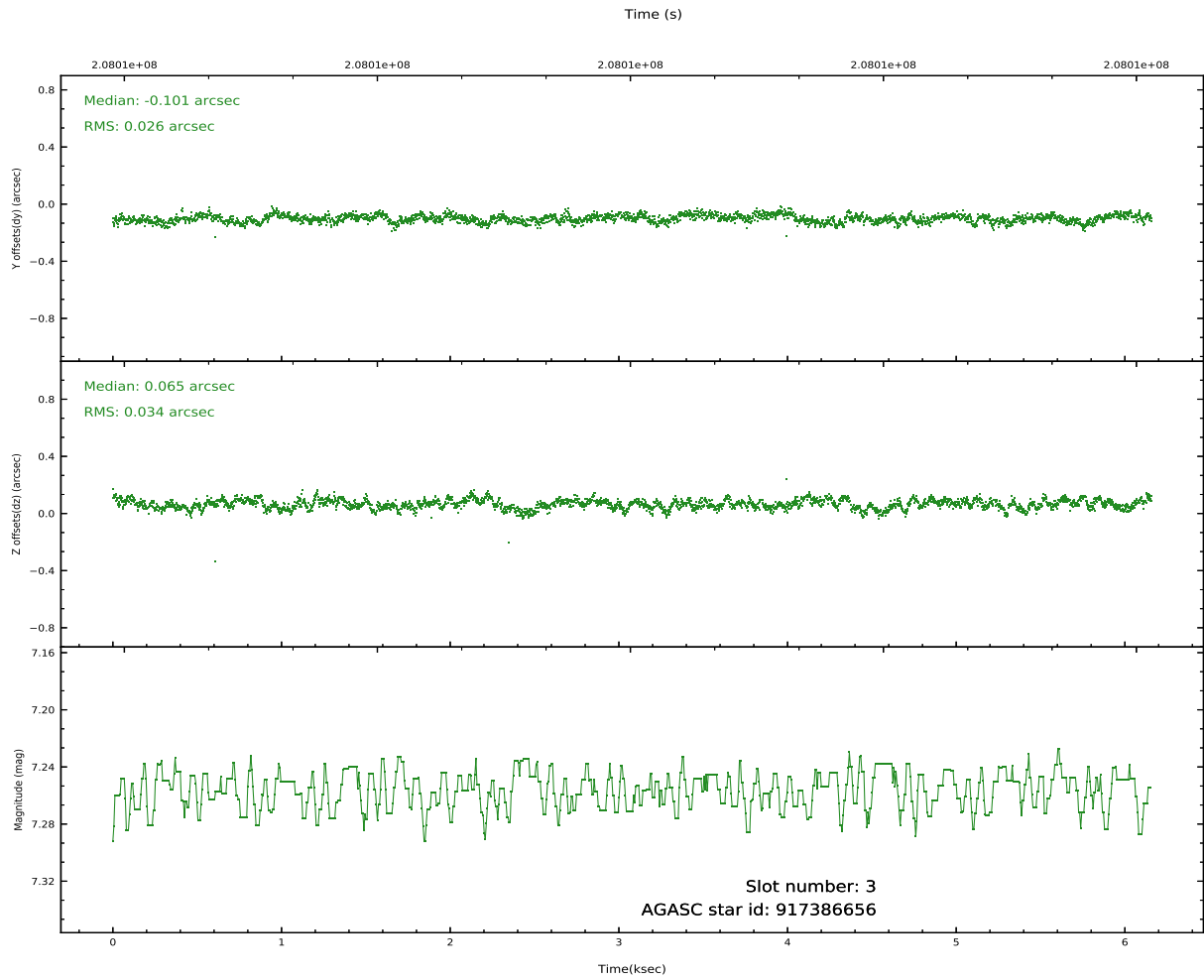
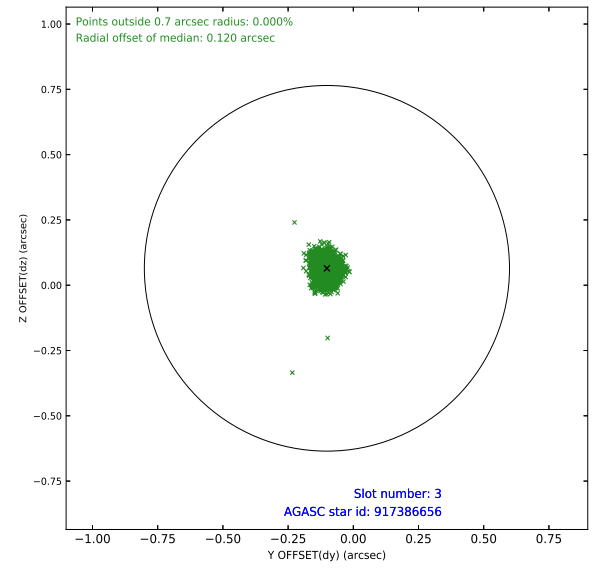
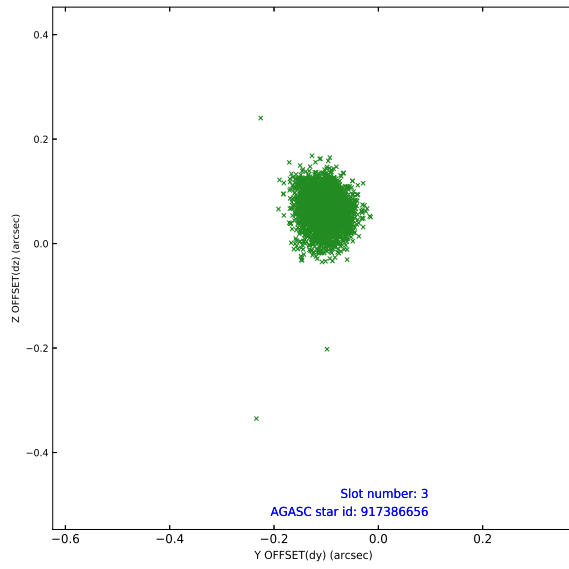


Slot Statistics

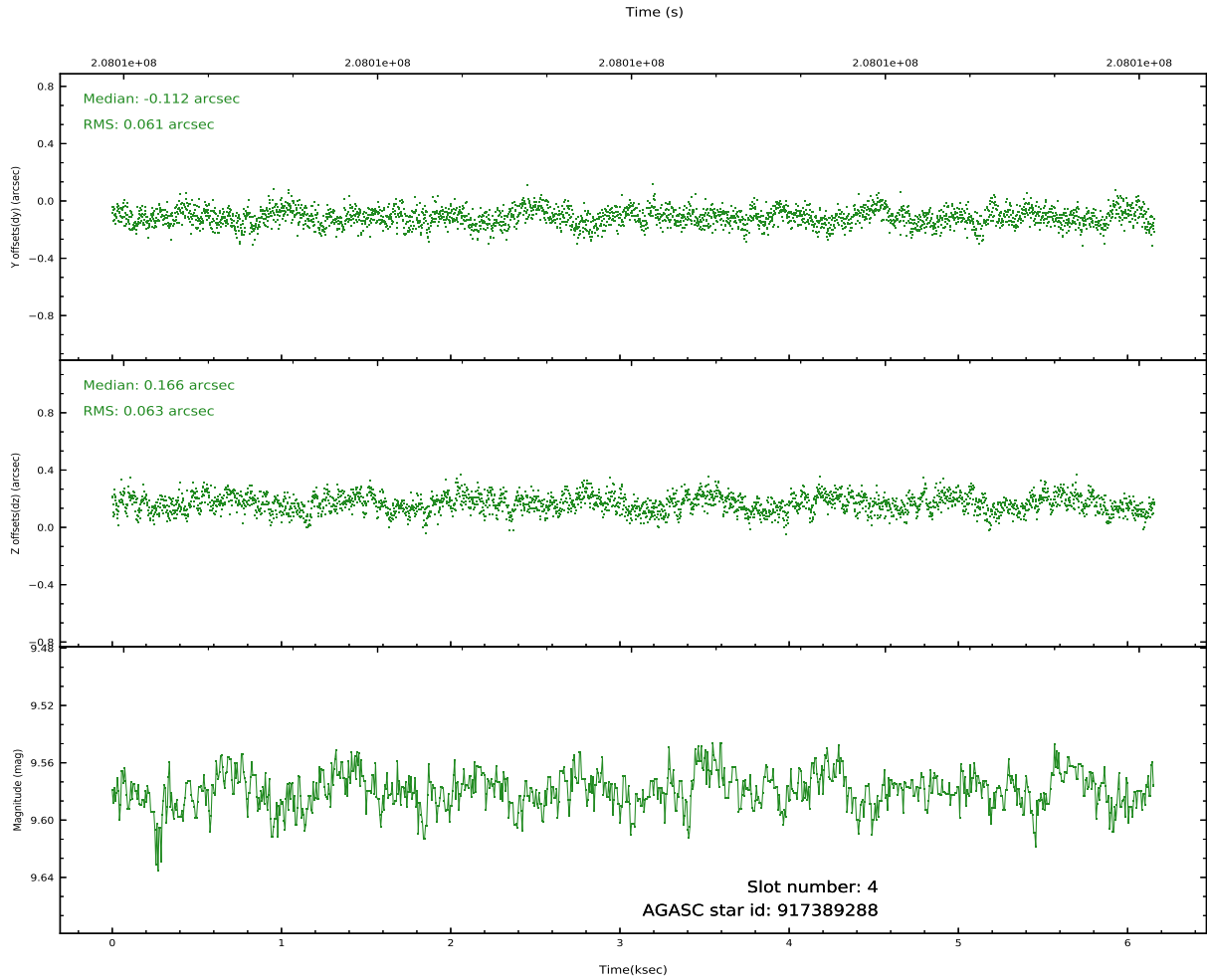
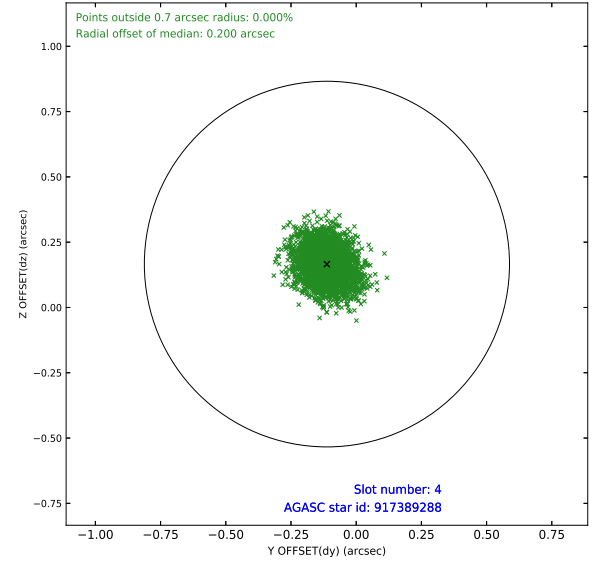
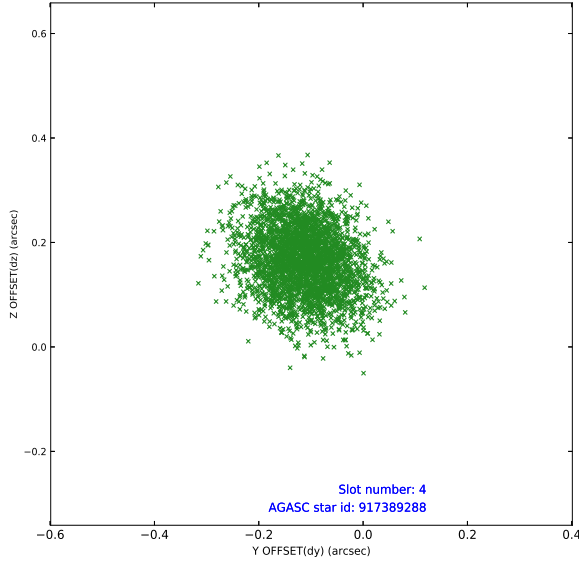
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1502	1.000	-0.073	-0.081	0.007	0.012	0.000000	0.000000	-758.23	-1729
1	FID		ACIS-S-4	7.21	1502	1.000	0.146	0.057	0.006	0.010	0.000000	0.000000	2154.82	177
2	FID		ACIS-S-5	7.23	1502	1.000	-0.104	0.033	0.007	0.011	0.000000	0.000000	-1809.88	172
3	GUIDE	used	917386656	7.26	3005	1.000	-0.101	0.065	0.045	0.073	15.342124	-33.359890	1325.94	-825
4	GUIDE	used	917389288	9.58	3004	1.000	-0.112	0.166	0.094	0.153	15.394706	-33.185862	1955.74	-971
5	GUIDE	used	917390768	9.88	3003	1.000	-0.028	-0.054	0.134	0.214	14.870561	-33.104152	2215.30	614
6	GUIDE	used	917650528	8.73	3003	1.000	0.102	-0.329	0.086	0.133	14.274554	-33.869842	-589.30	2327
7	GUIDE	used	917642024	8.88	3004	1.000	0.147	0.151	0.066	0.107	15.645887	-34.369984	-2292.82	-1800

2.4 Star Slots

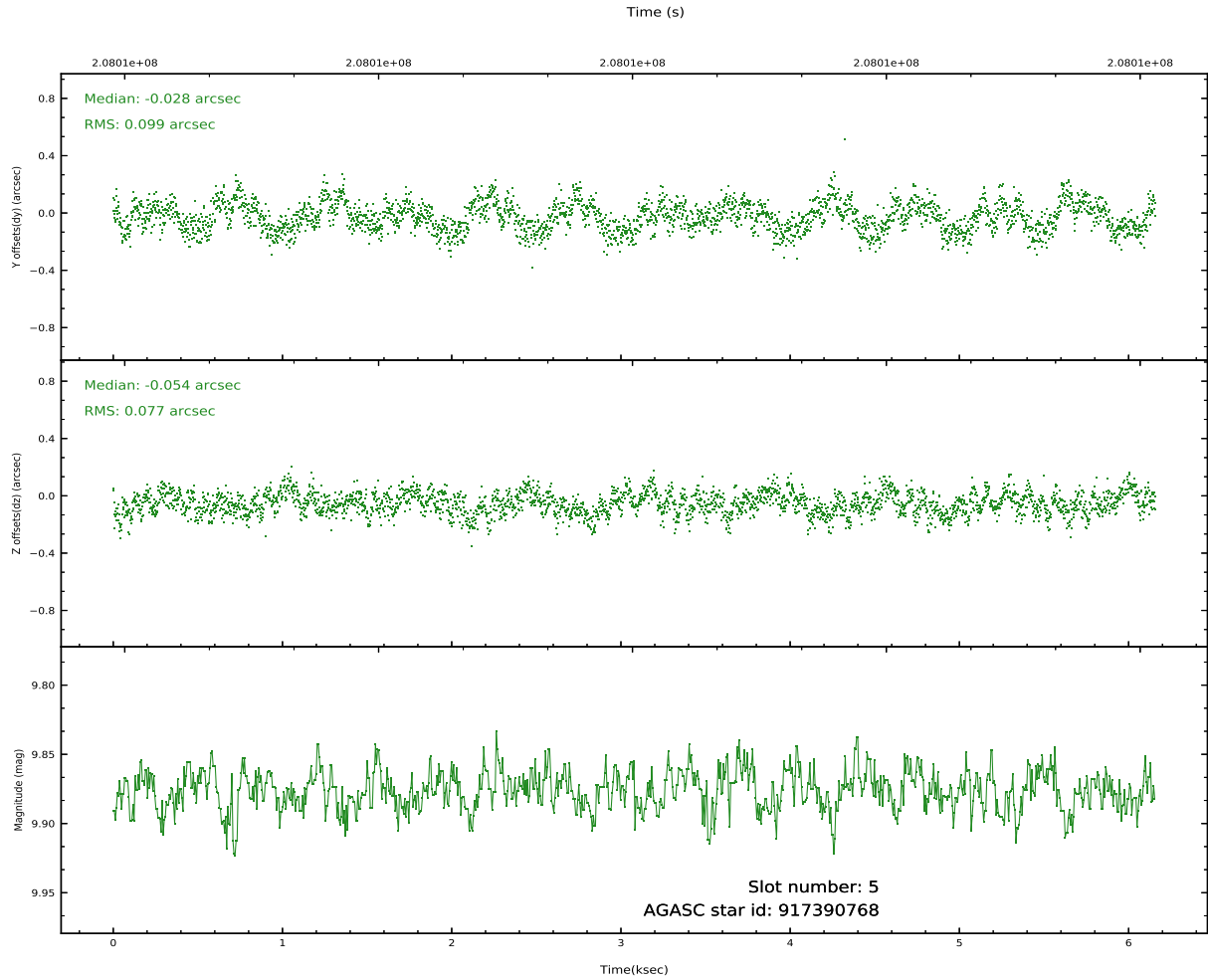
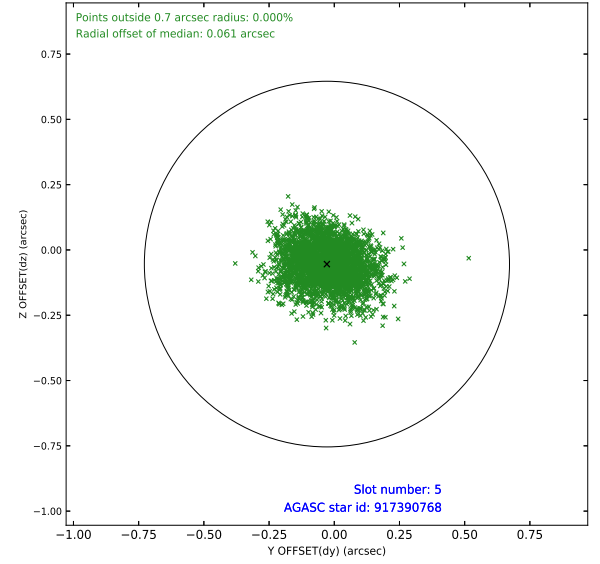
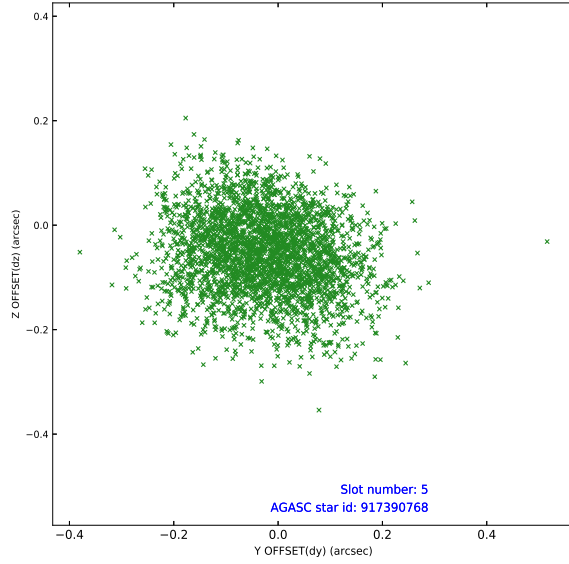
2.4.1 Slot 3



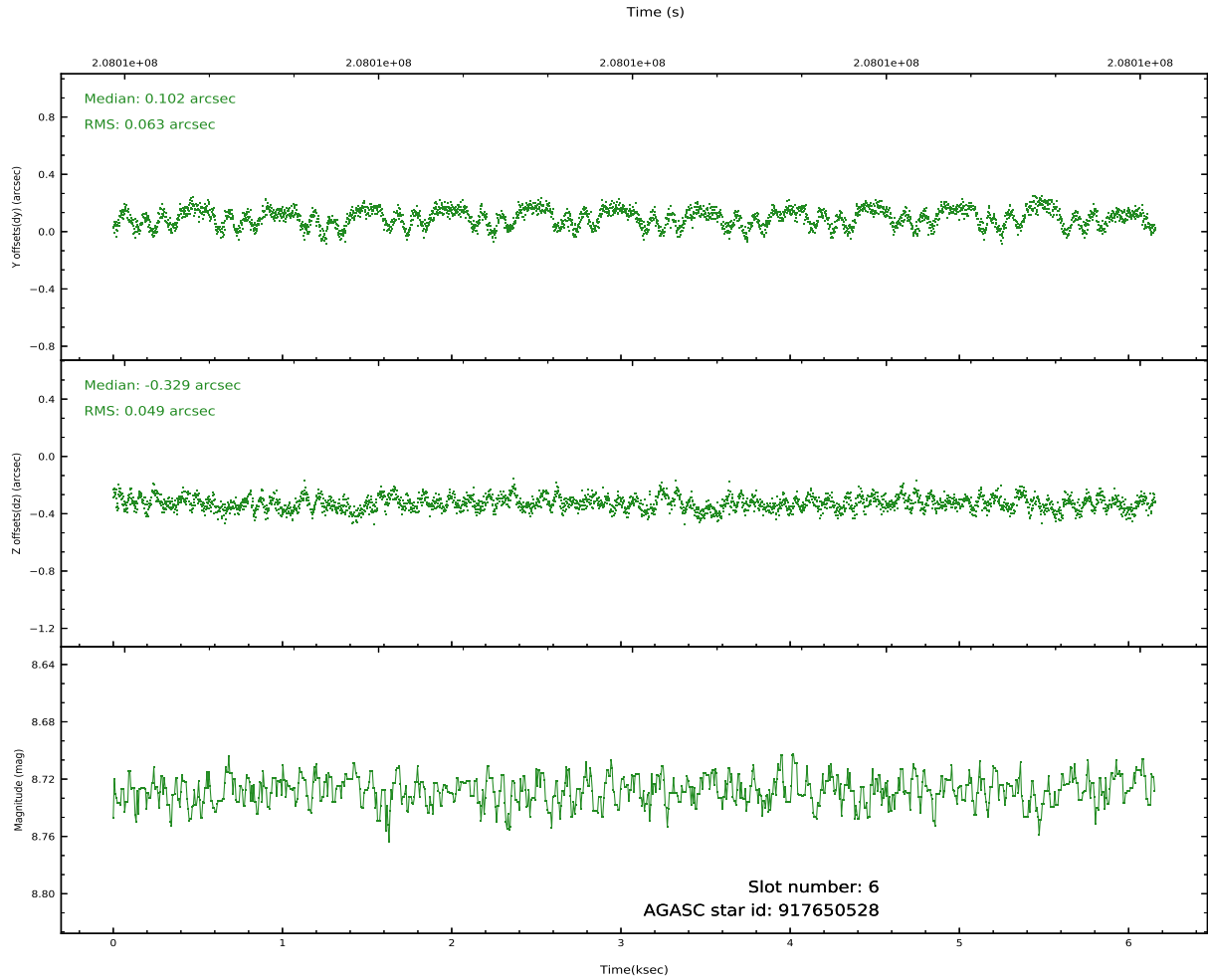
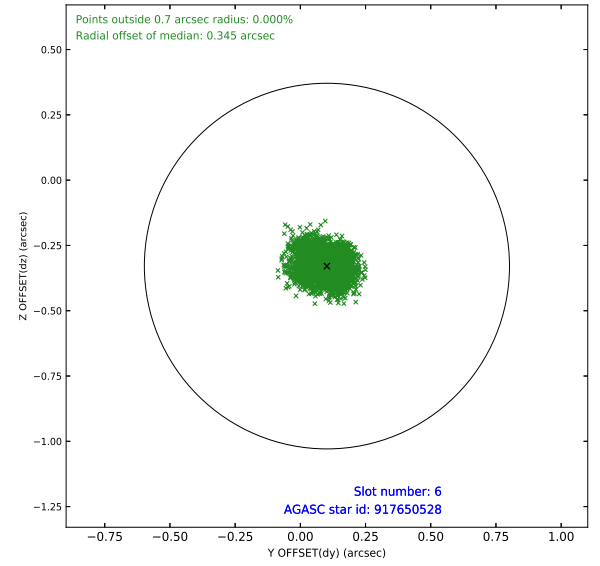
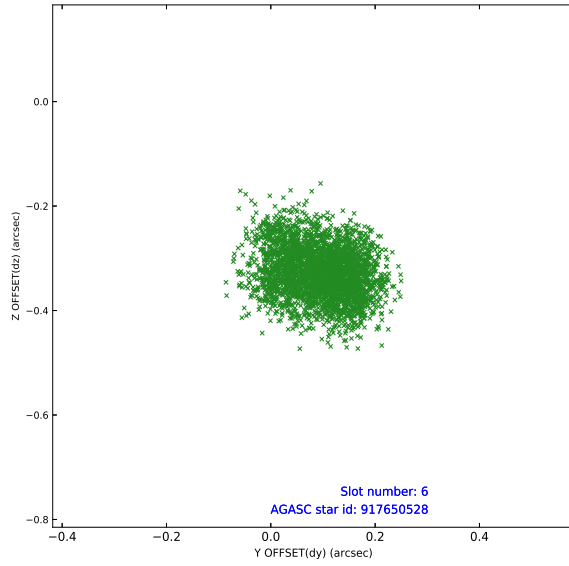
2.4.2 Slot 4



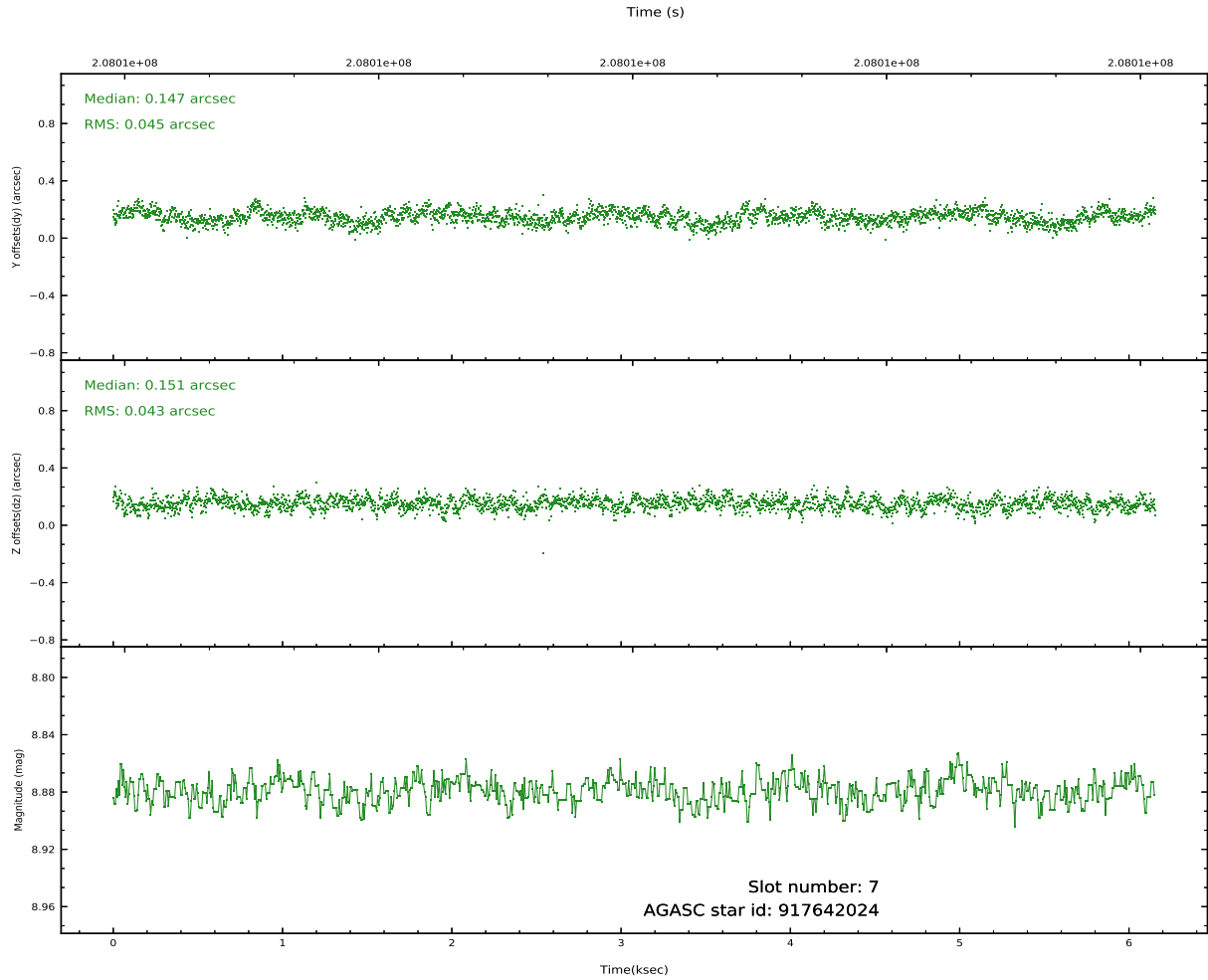
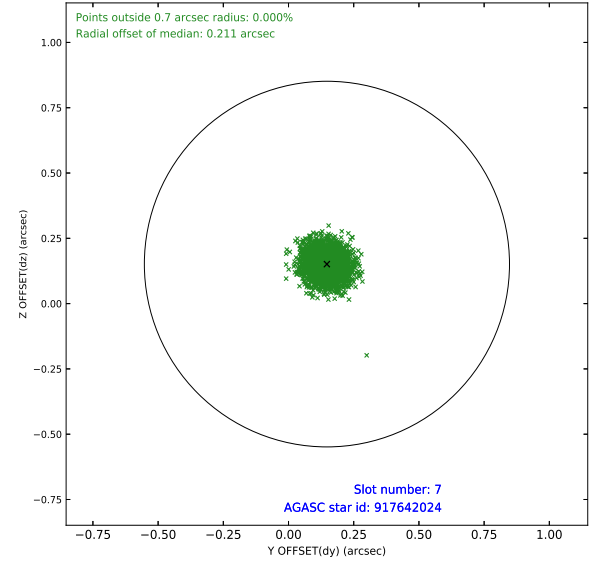
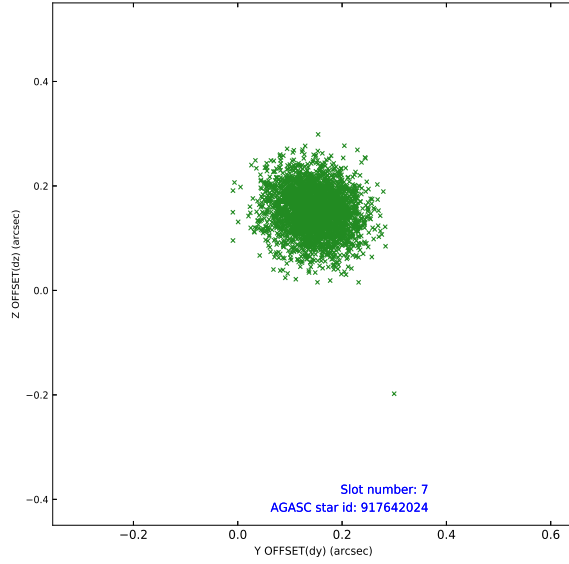
2.4.3 Slot 5



2.4.4 Slot 6

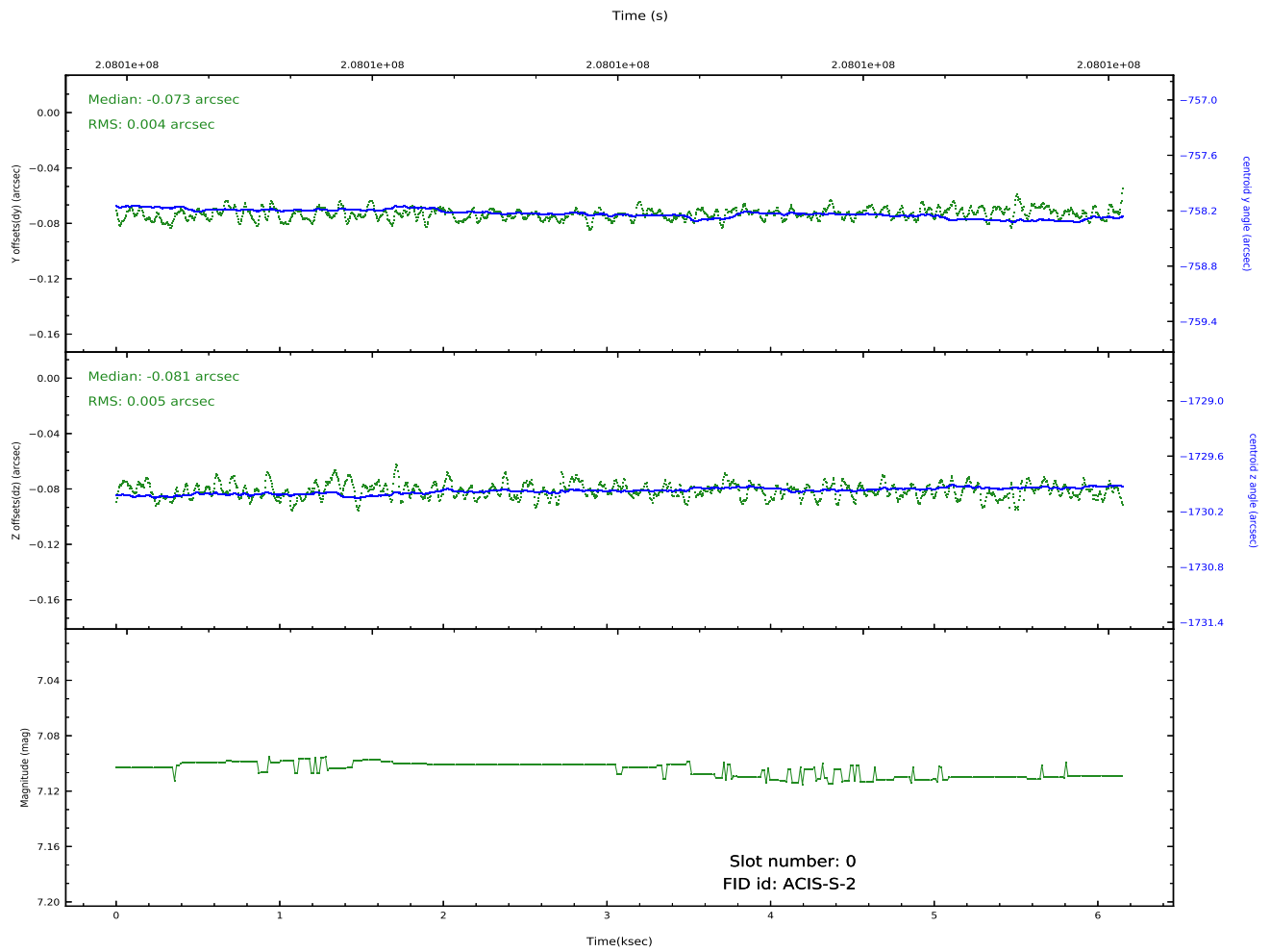
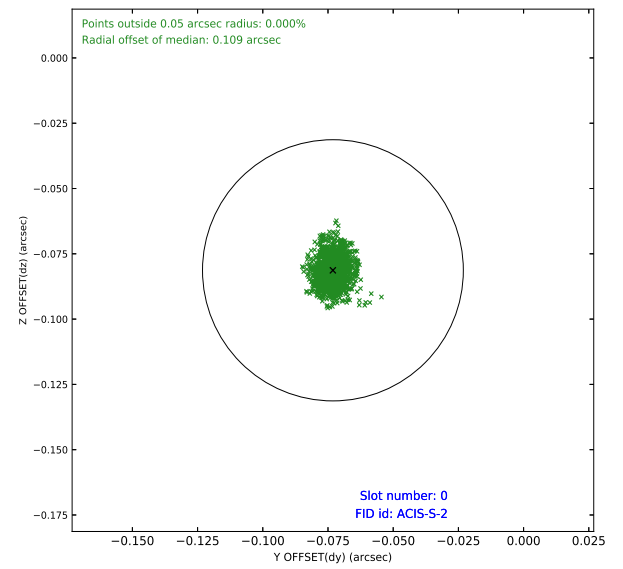
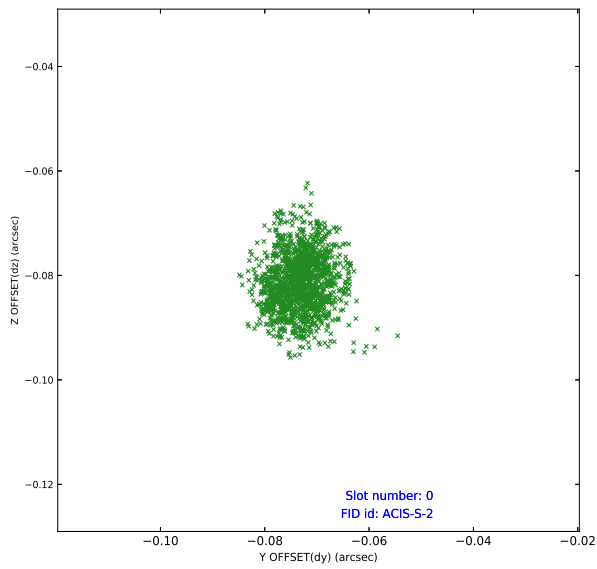


2.4.5 Slot 7

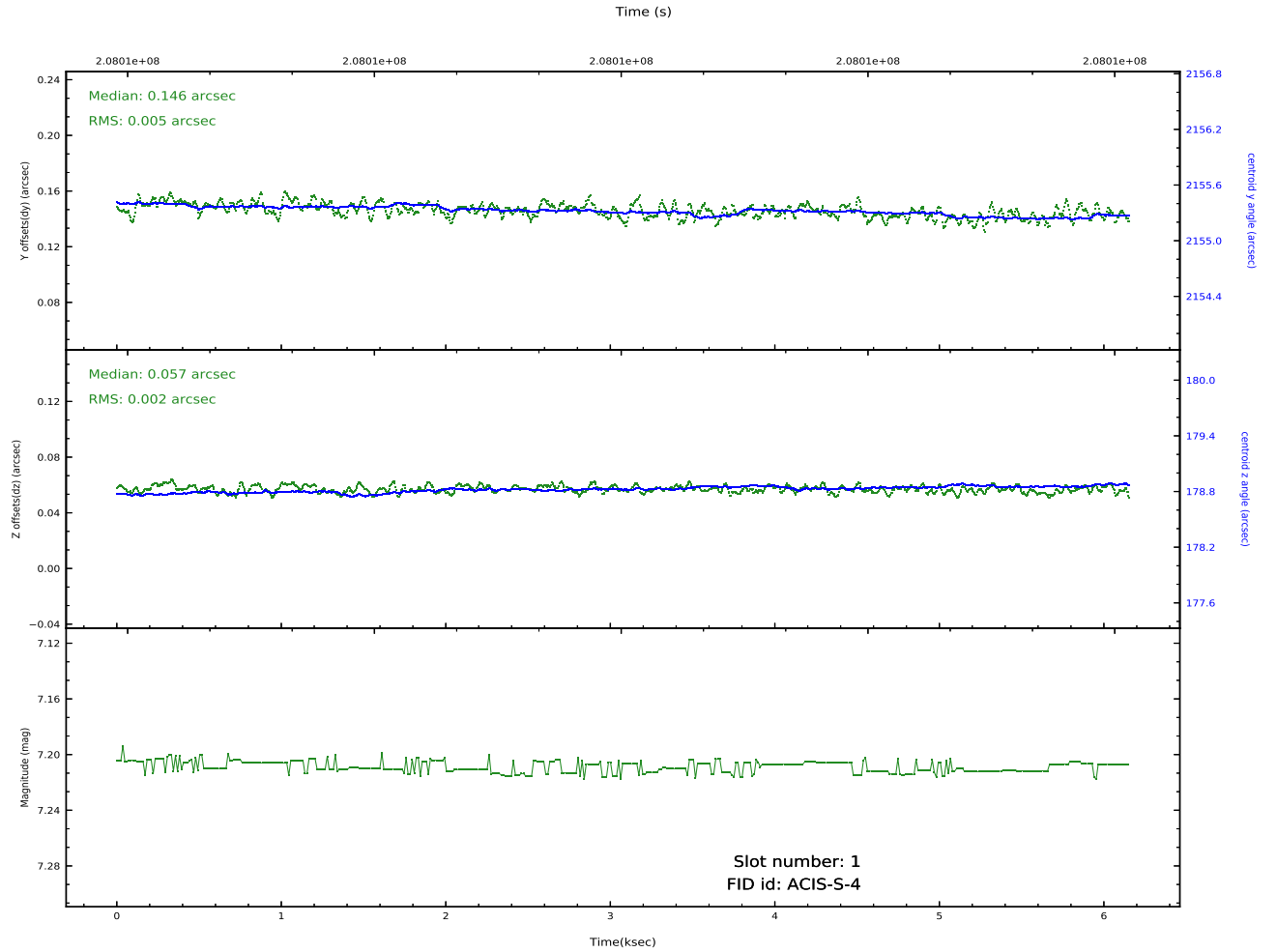
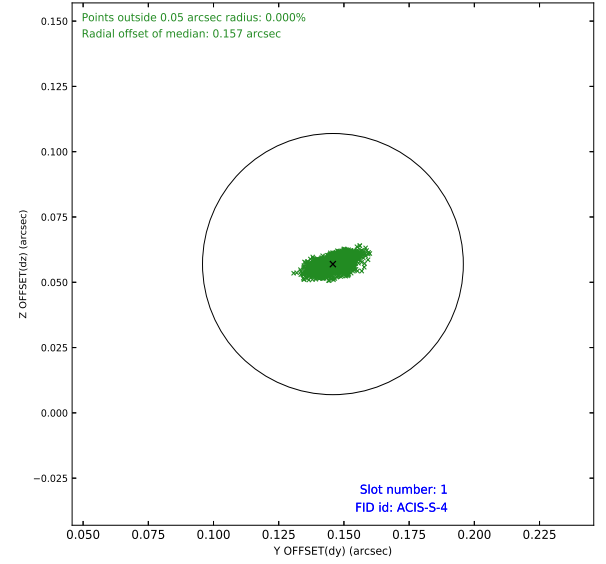
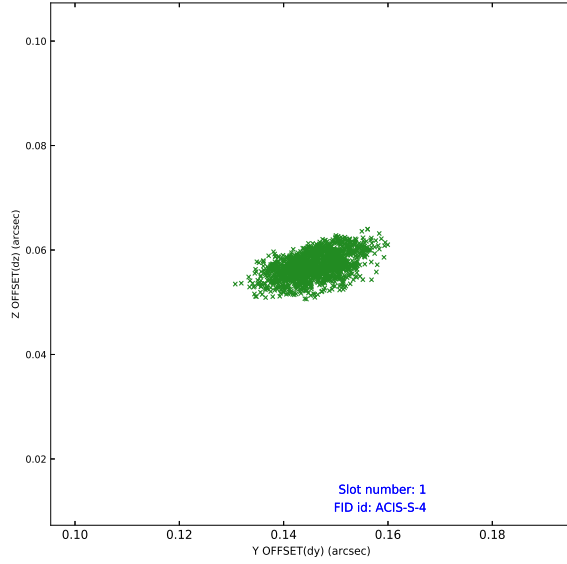


2.5 FID Slots

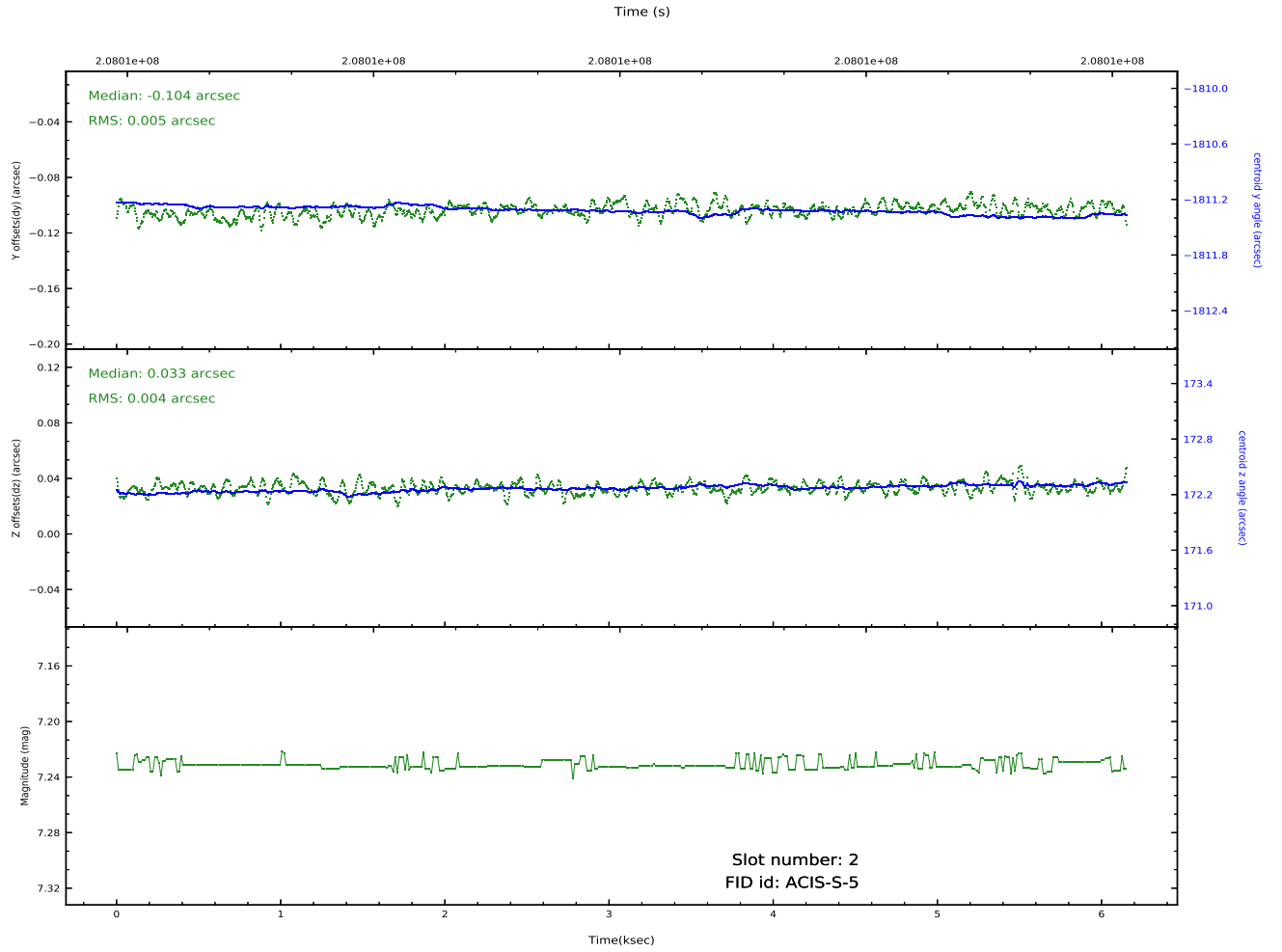
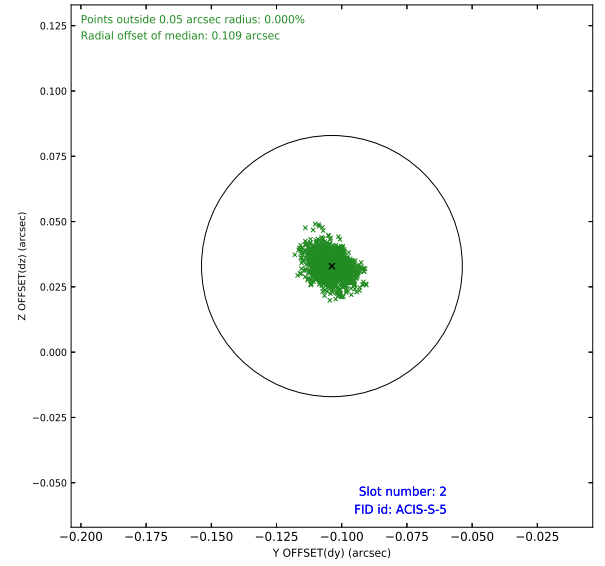
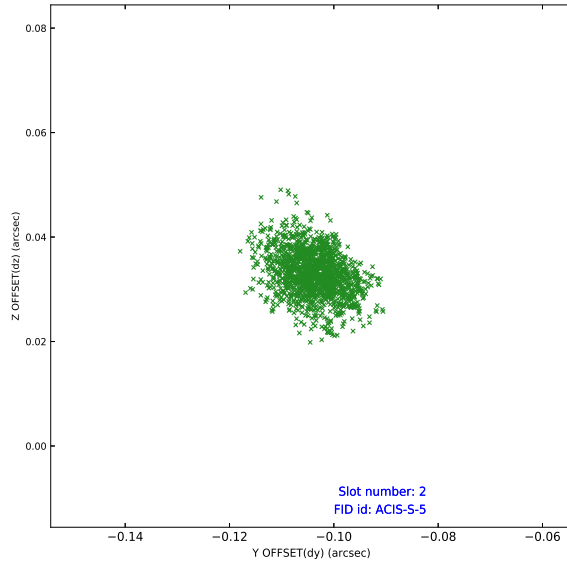
2.5.1 Slot 0



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)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.153

A.2 Comments

Joint proposal with NOAO.