

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4715 - L2 Version 4
Chandra X-Ray Center

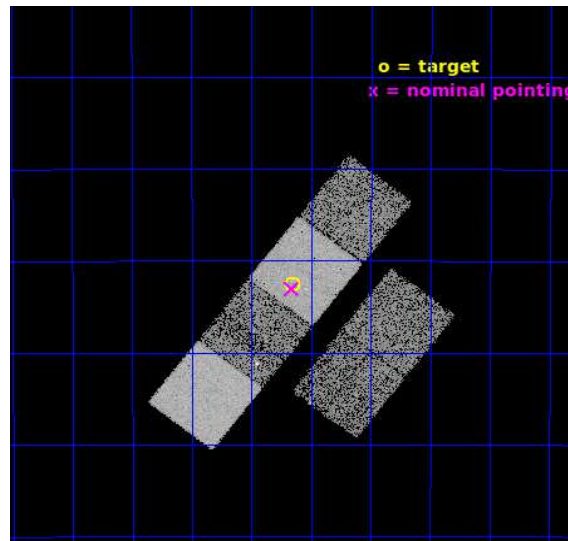
L2 Processing Date : Oct 5 2020

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1 Front

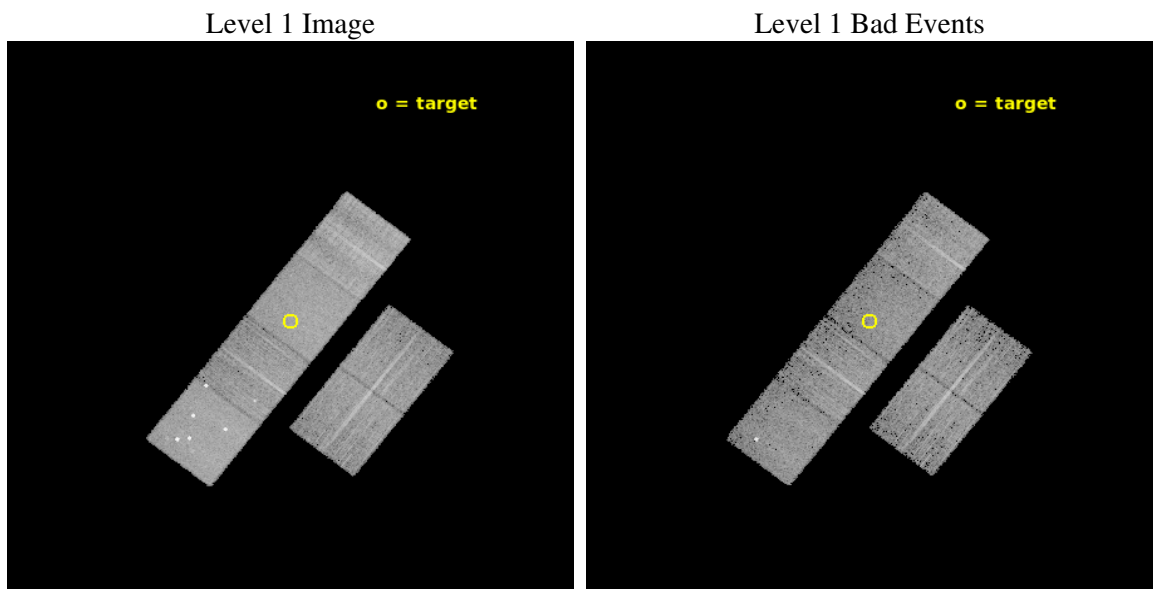
seq_num	600370	Sequence number
obs_id	4715	Observation id
title	Using the Sculptor Dwarf Spheroidal Galaxy to Constrain X-ray Binary Production in Population II	Proposal title
observer	Thomas Maccarone	Principal investigator
object	SCULPTOR DWARF SPHEROIDAL	Source name
dtcycle	0	
cycle	P	events from 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	15.040178916239	Nominal RA [deg]
dec_nom	-33.717382374378	Nominal Dec [deg]
roll_nom	307.77652498945	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5753.29267326	Sum of GTIs [s]
livetime	5680.4410172142	Livetime [s]
ontime2	5753.3337132633	Sum of GTIs [s]
ontime3	5753.1695532501	Sum of GTIs [s]
ontime5	5753.2516332567	Sum of GTIs [s]
ontime6	5753.2105932534	Sum of GTIs [s]
ontime7	5753.29267326	Sum of GTIs [s]
ontime8	5749.8875229955	Sum of GTIs [s]
l2events	79876	Number of level 2 events



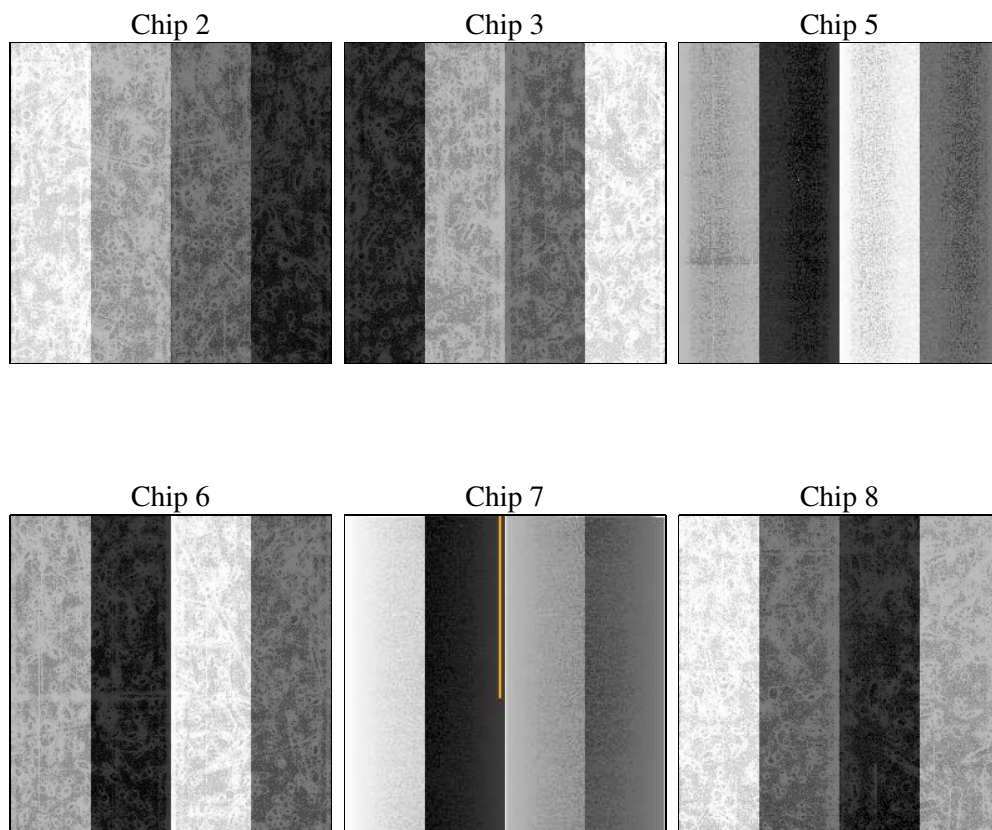
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	5753.29267326	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	5753.3337132633	Sum of GTIs [s]
date	2020-10-05T11:24:09	Date and time of file creation	ontime3	5753.1695532501	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	5753.2516332567	Sum of GTIs [s]
			ontime6	5753.2105932534	Sum of GTIs [s]
			ontime7	5753.29267326	Sum of GTIs [s]
			ontime8	5749.8875229955	Sum of GTIs [s]
			l1events	369146	Number of level 1 events

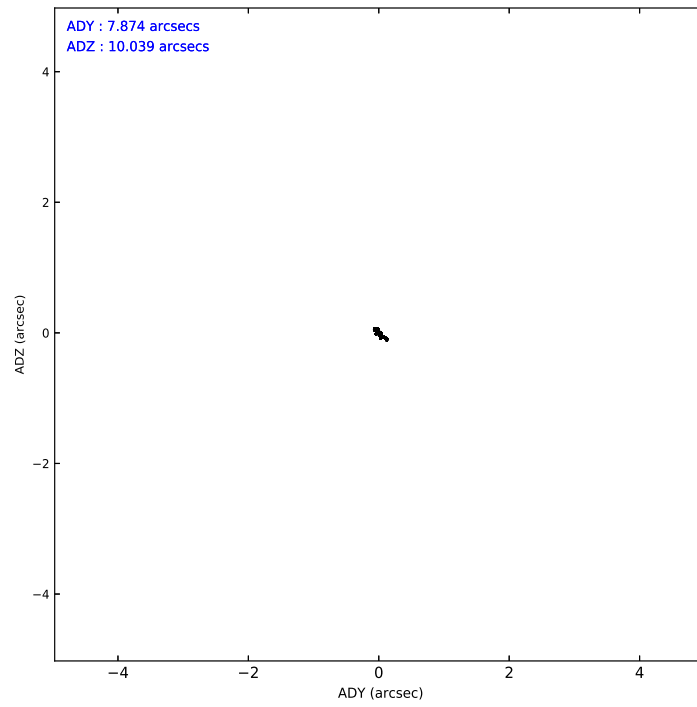
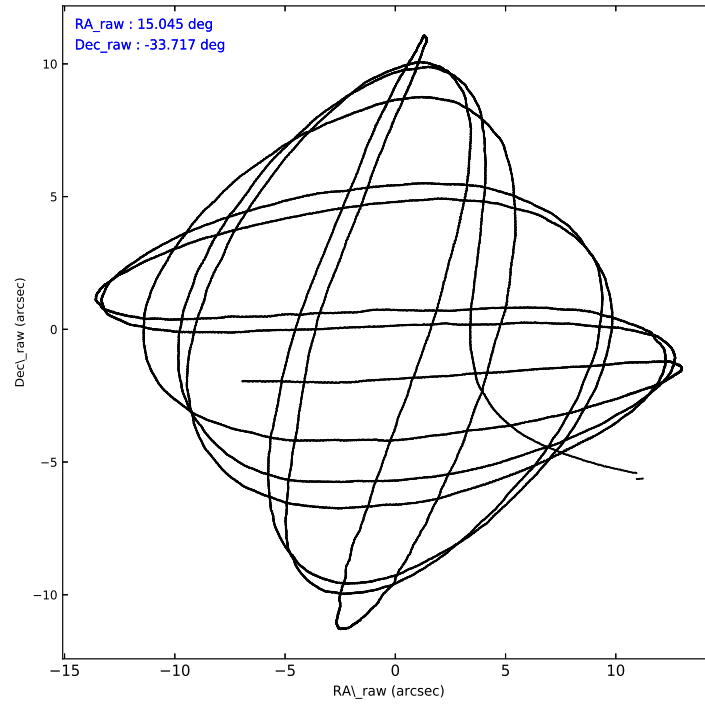
2.1.4 Events

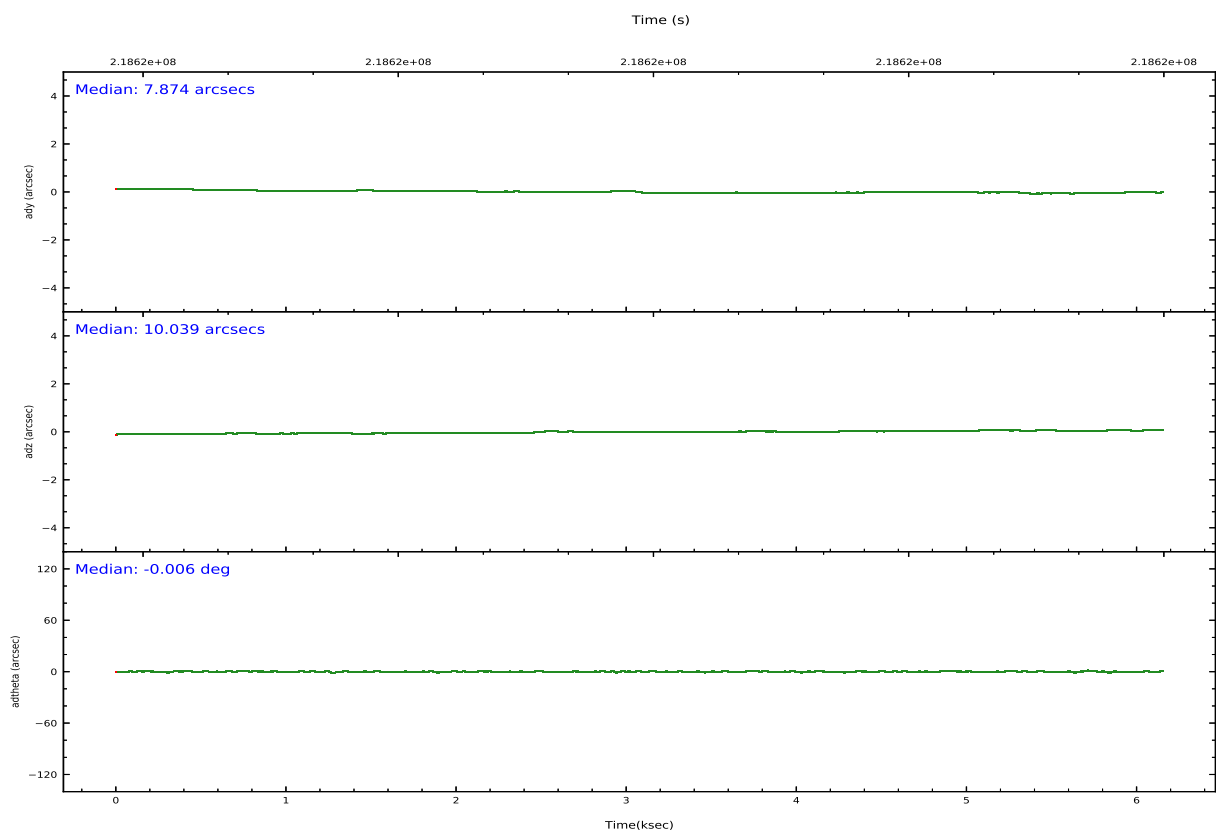
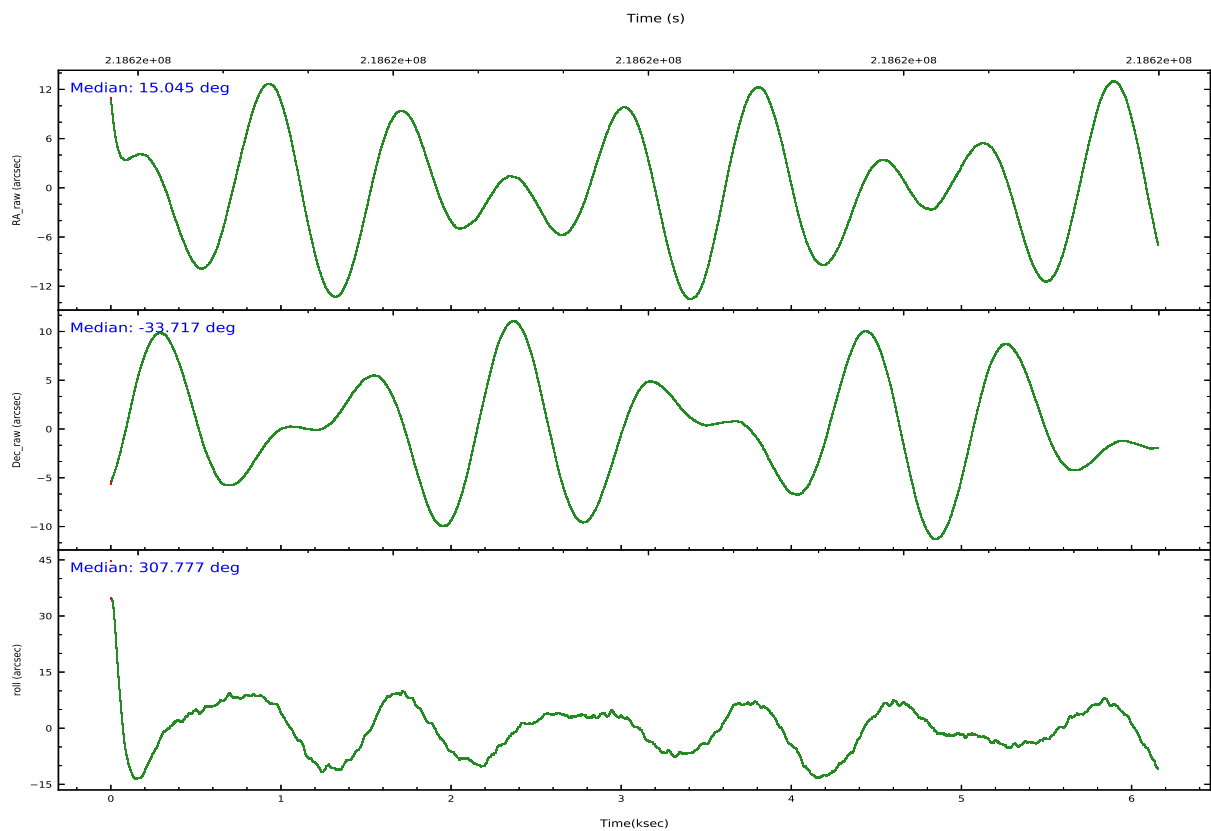
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51518	48735	78901	51468	63164	75360	grade 0 events	2962	2645	7505	3024	2449	8048
rejected events	44845	42268	39859	44176	36645	51639		5%	5%	9%	5%	3%	10%
rejected %	87%	86%	50%	85%	58%	68%	grade 1 events	42	31	101	25	69	92
								0%	0%	0%	0%	0%	0%
							grade 2 events	1481	1582	10283	1776	5318	4058
								2%	3%	13%	3%	8%	5%
							grade 3 events	520	526	1376	545	2377	3472
								1%	1%	1%	1%	3%	4%
							grade 4 events	600	474	1246	578	2252	3060
								1%	0%	1%	1%	3%	4%
							grade 5 events	1792	1925	4916	2066	5931	2847
								3%	3%	6%	4%	9%	3%
							grade 6 events	1115	1250	18675	1380	14150	5093
								2%	2%	23%	2%	22%	6%
							grade 7 events	43006	40302	34799	42074	30618	48690
								83%	82%	44%	81%	48%	64%

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	15.014102	15.040178916239	Subarray requested	NONE	NONE
[deg] Pointing Dec	-33.707495	-33.717382374378	Alternating exposures requested	N	N
[deg] Pointing Roll	307.607363	307.77652498945	[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)	218616997.184000	218616070.00806			
Observation start date	2004-12-05T06:55:33	2004-12-05T06:41:10			
[s] Observation end time (MET)	218622997.184000	218623894.34591			
Observation end date	2004-12-05T08:35:33	2004-12-05T08:51:34			
Read mode	TIMED	TIMED			

2.3 Aspect



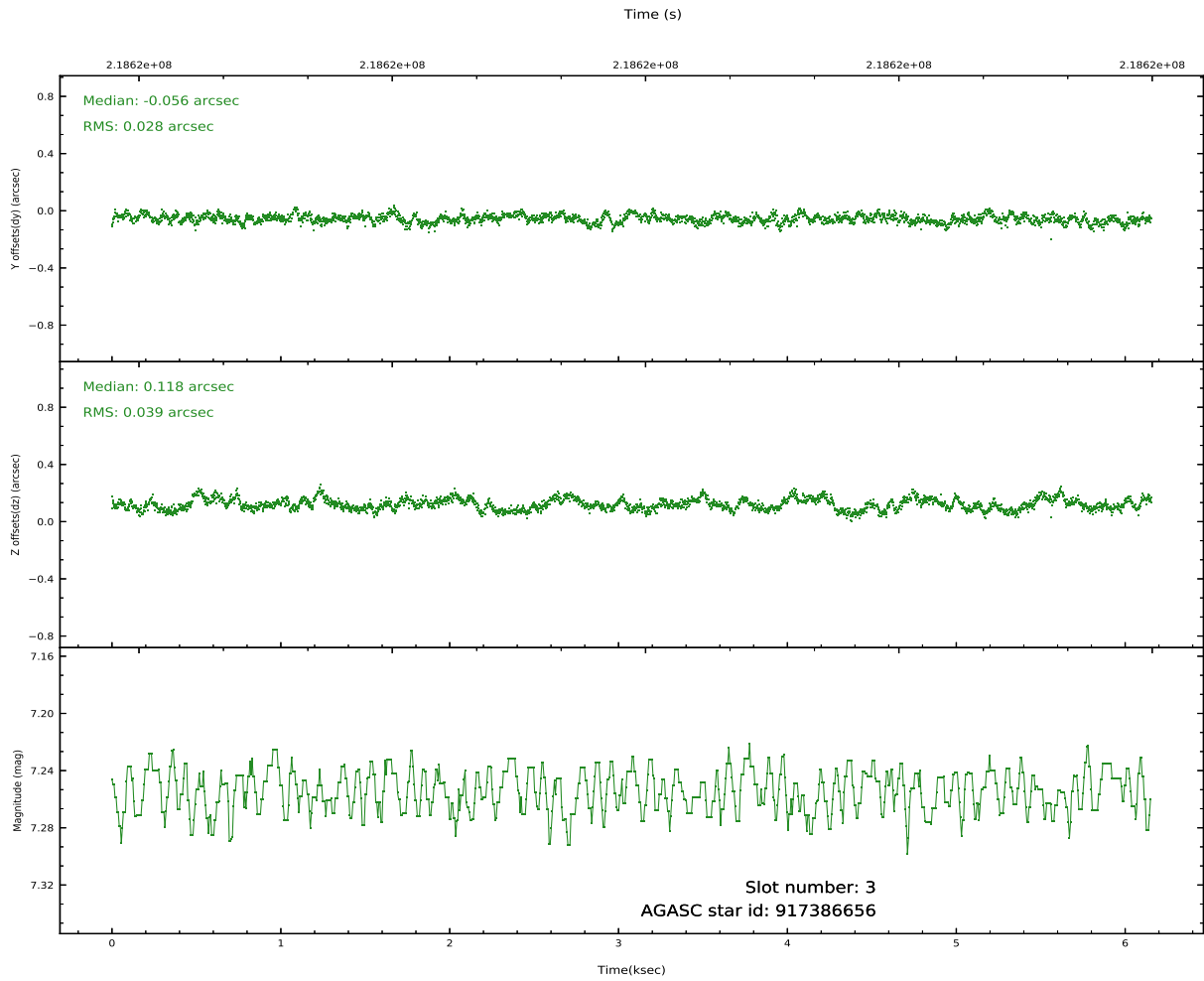
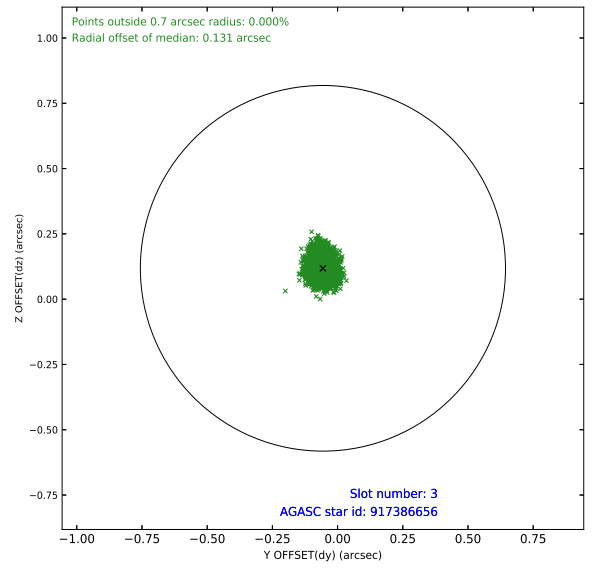
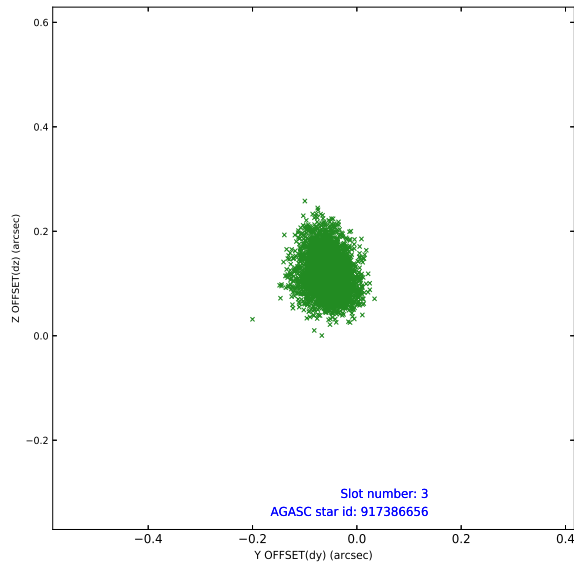


Slot Statistics

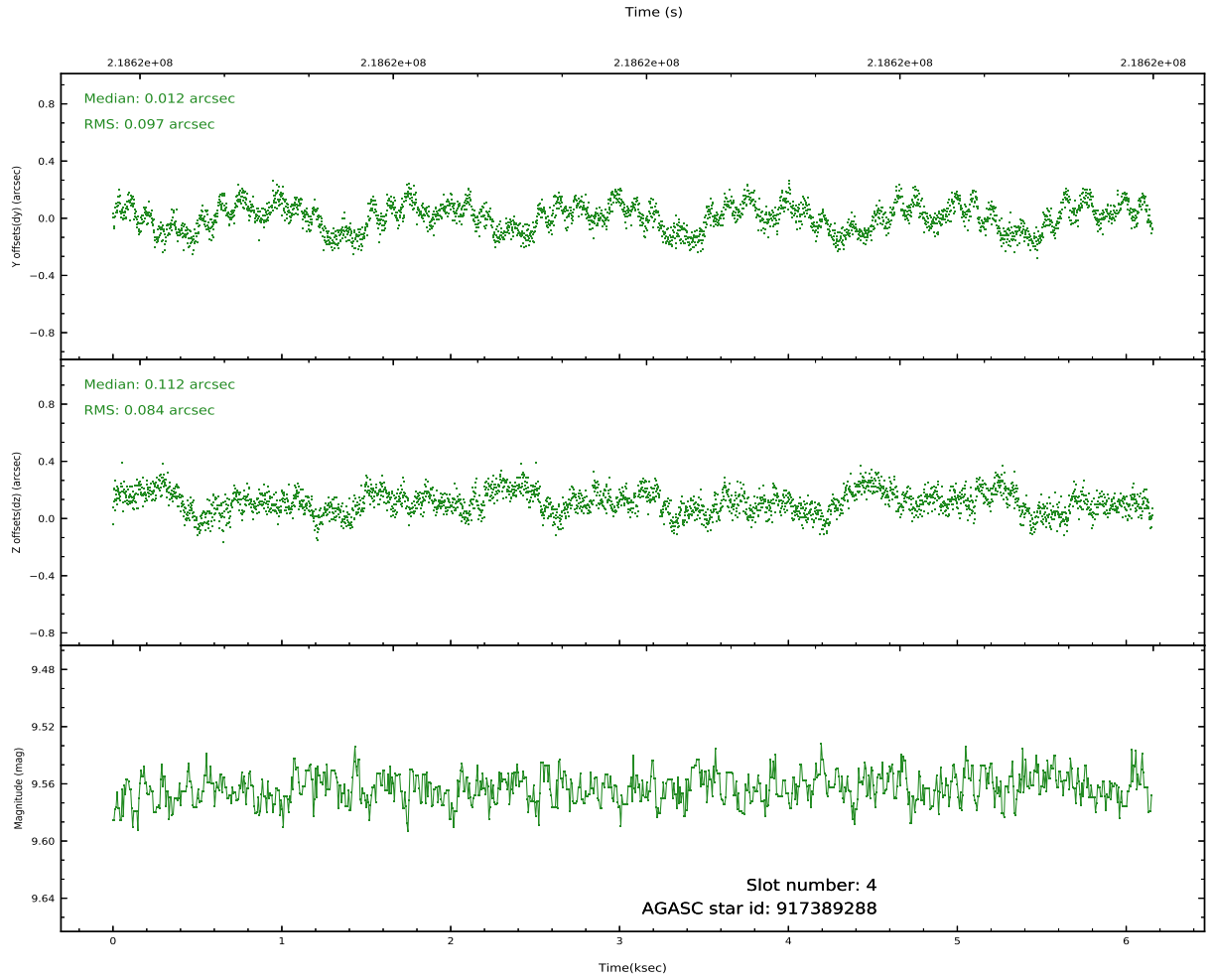
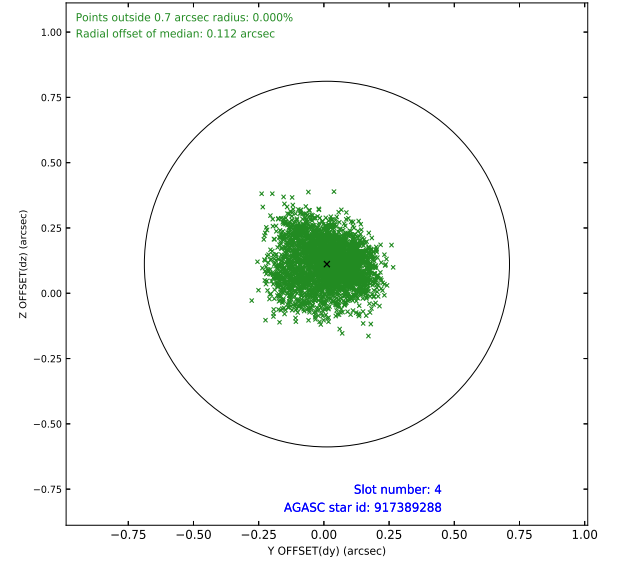
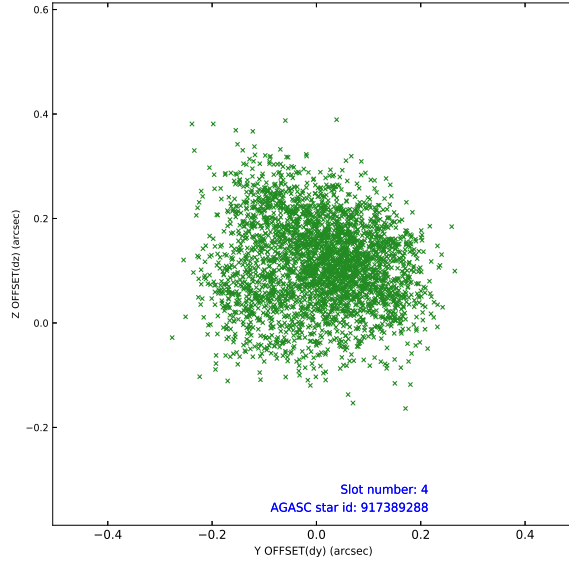
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	1501	1.000	0.056	-0.069	0.007	0.011	0.000000	0.000000	935.47	-1726
1	FID		ACIS-S-5	7.24	1502	1.000	-0.131	0.023	0.007	0.011	0.000000	0.000000	-1813.21	169
2	FID		ACIS-S-6	7.35	1502	1.000	0.052	0.057	0.007	0.012	0.000000	0.000000	399.94	814
3	GUIDE	used	917386656	7.25	3004	1.000	-0.056	0.118	0.052	0.083	15.342124	-33.359890	-388.37	1544
4	GUIDE	used	917389288	9.56	3004	1.000	0.012	0.112	0.143	0.215	15.394706	-33.185862	-786.48	2053
5	GUIDE	used	917650528	8.72	3001	1.000	-0.059	-0.080	0.089	0.140	14.274554	-33.869842	-879.43	-2112
6	GUIDE	used	917651768	9.62	2987	1.000	-0.068	-0.022	0.164	0.246	14.115744	-33.817552	-1316.14	-2378
7	GUIDE	used	917651048	9.66	2999	1.000	0.178	-0.133	0.115	0.182	14.655628	-34.424089	1396.08	-2419

2.4 Star Slots

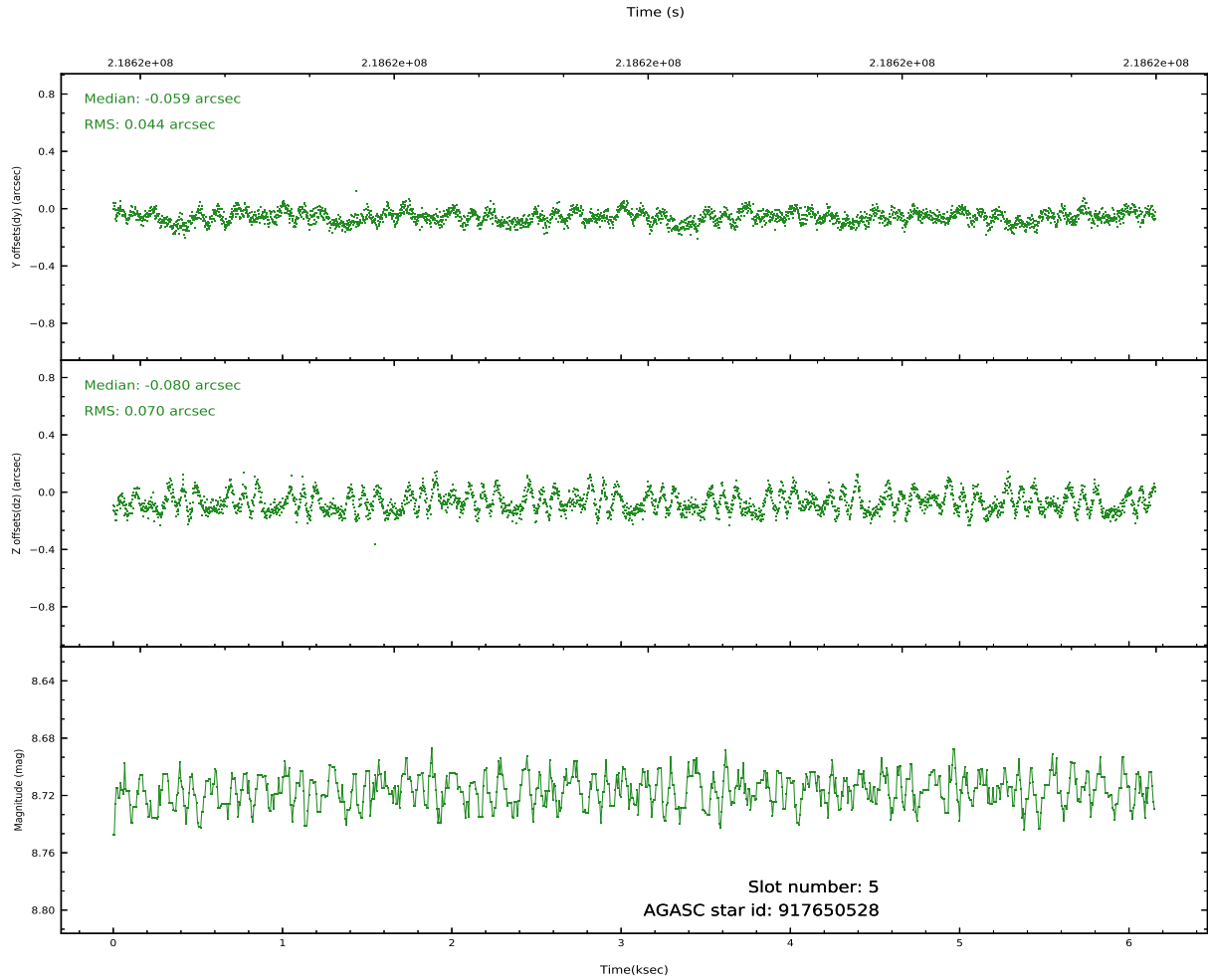
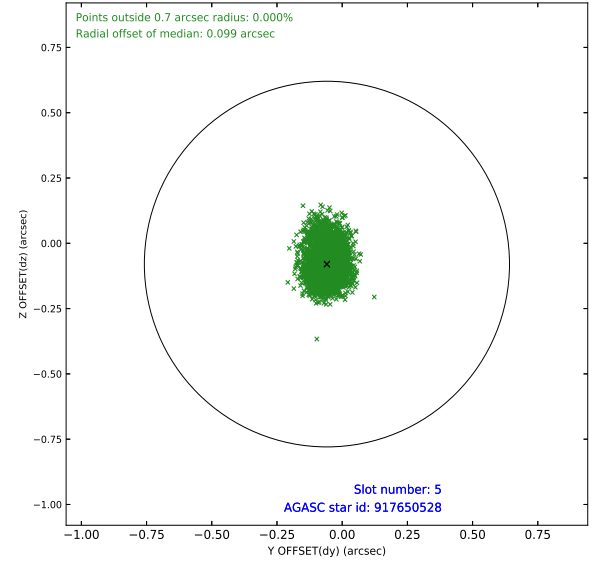
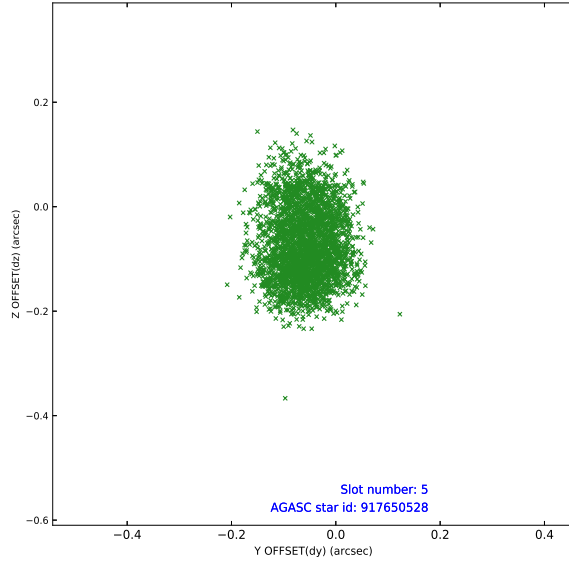
2.4.1 Slot 3



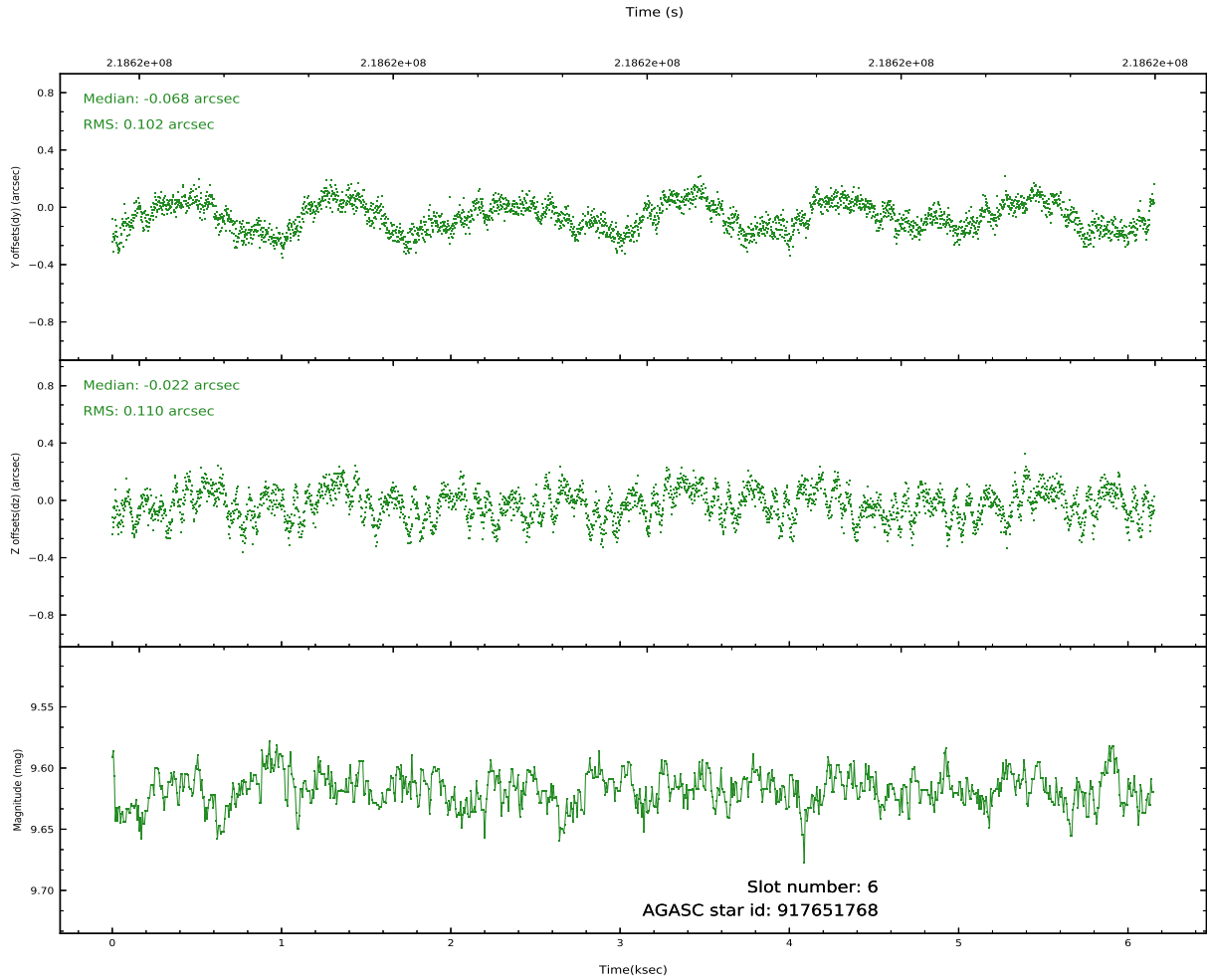
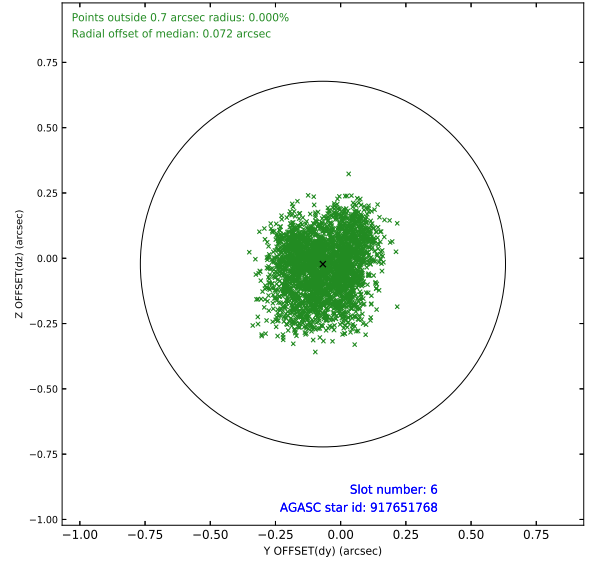
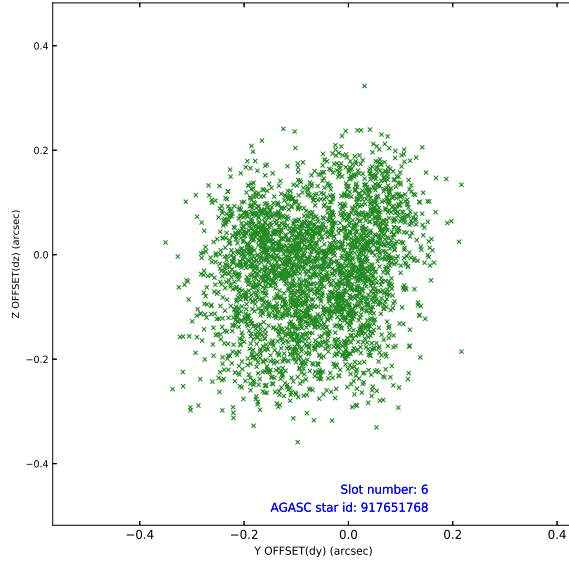
2.4.2 Slot 4



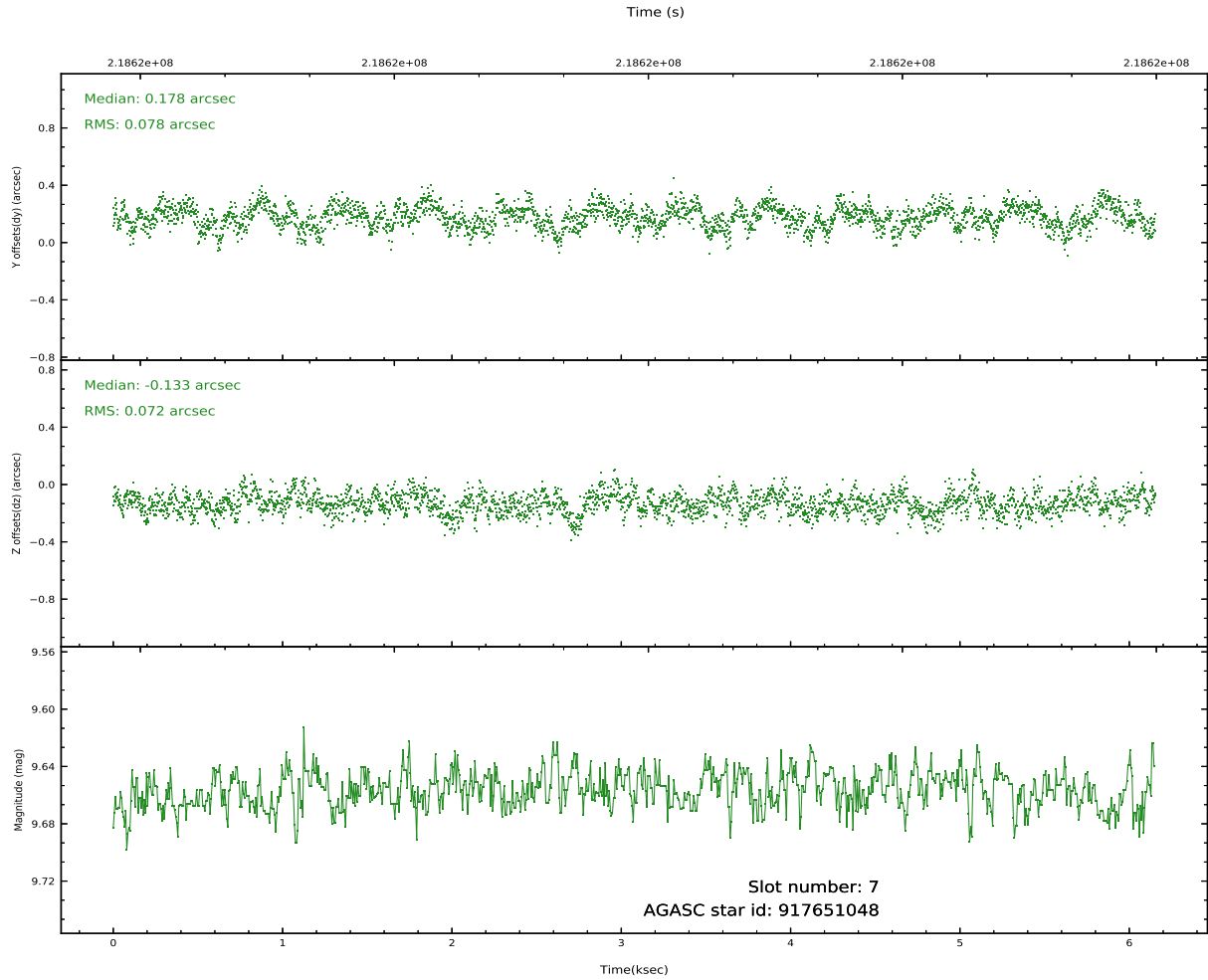
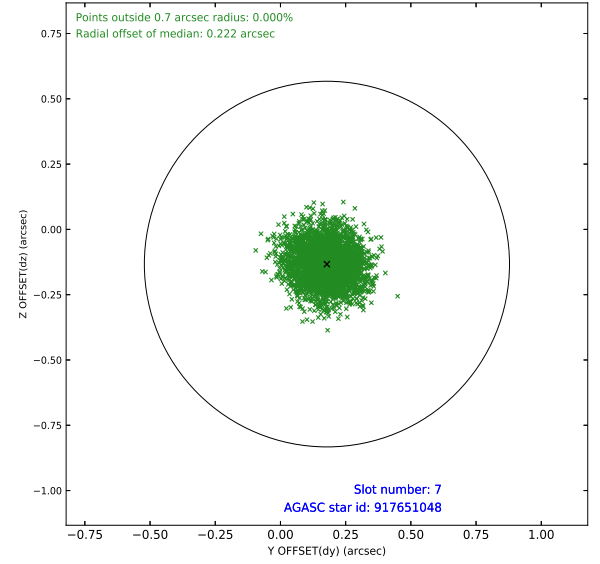
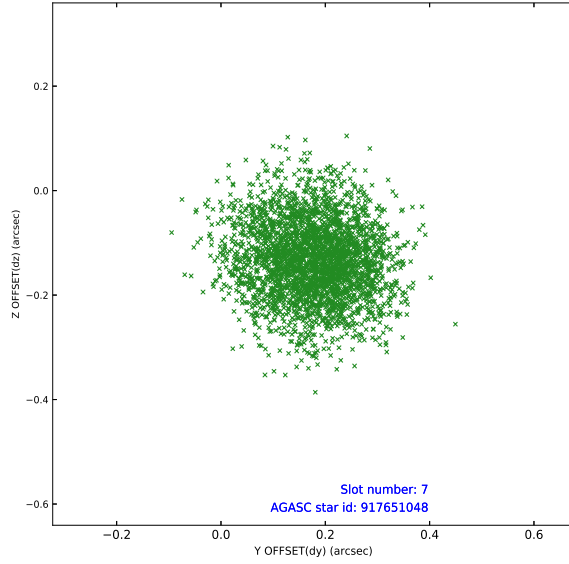
2.4.3 Slot 5



2.4.4 Slot 6

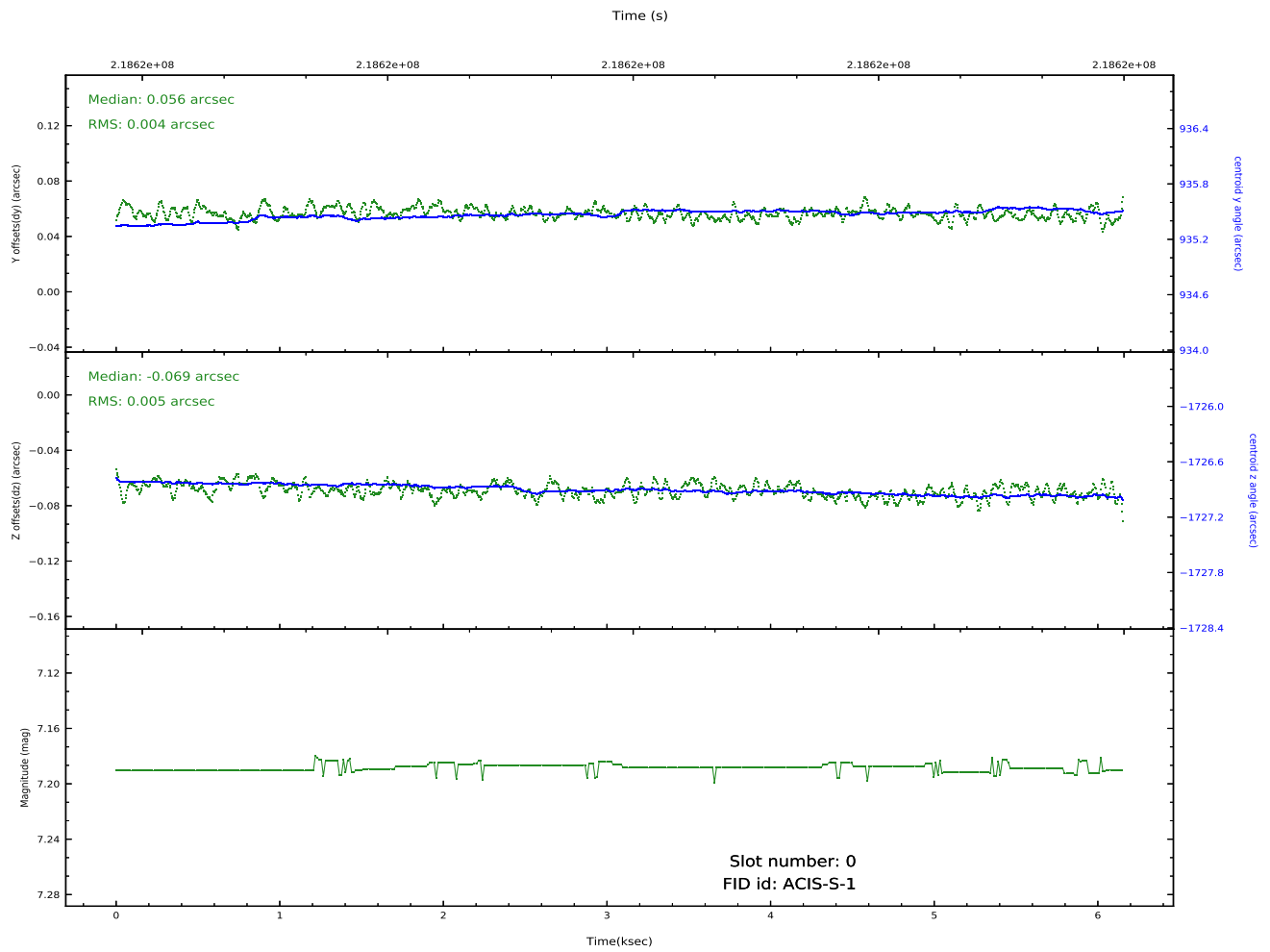
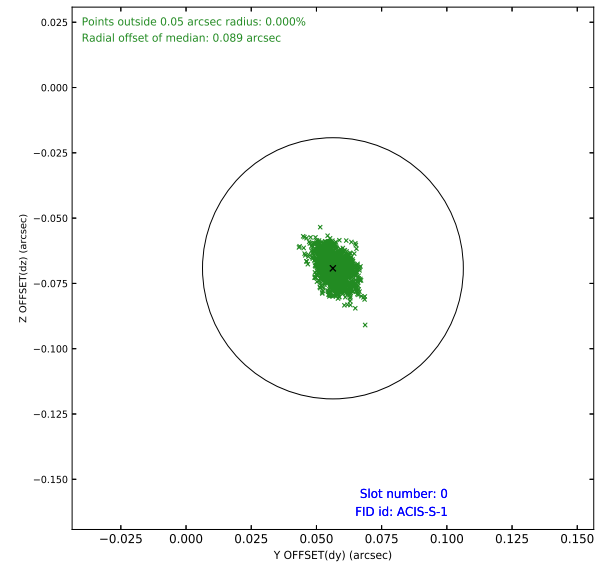
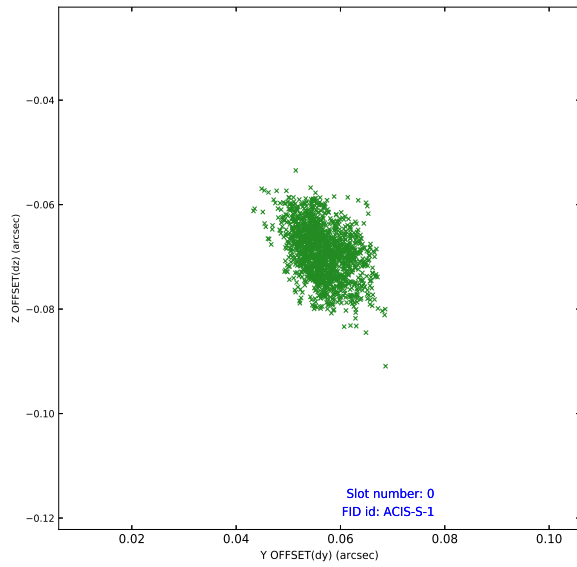


2.4.5 Slot 7

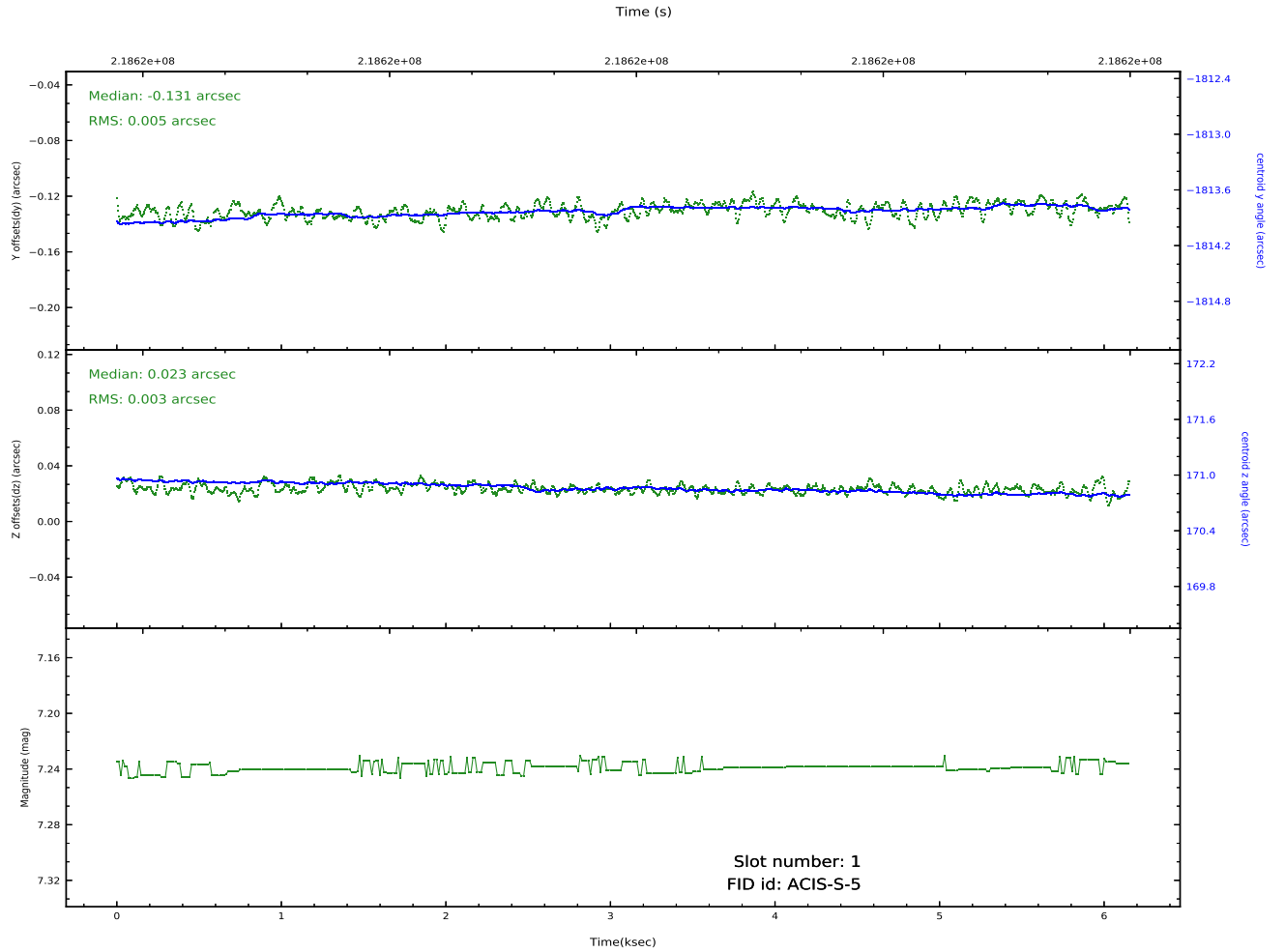
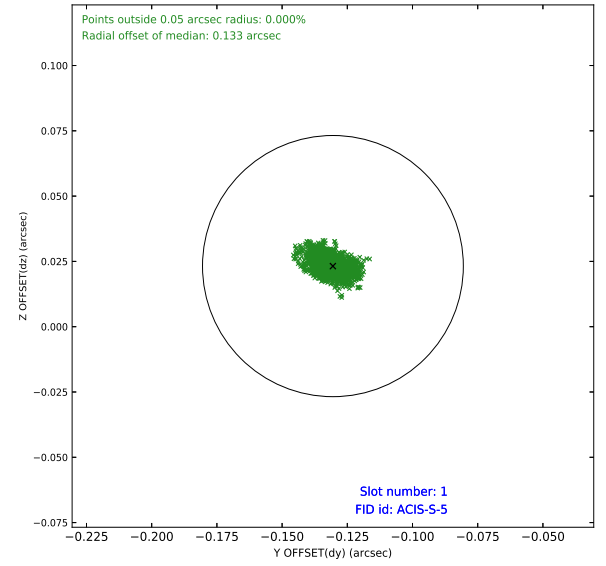
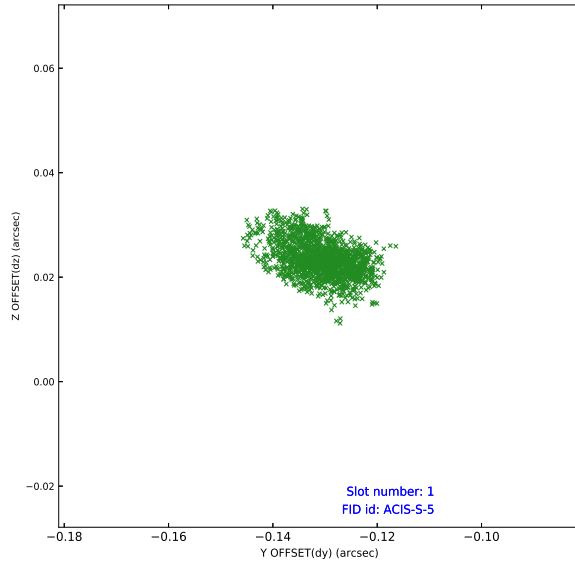


2.5 FID Slots

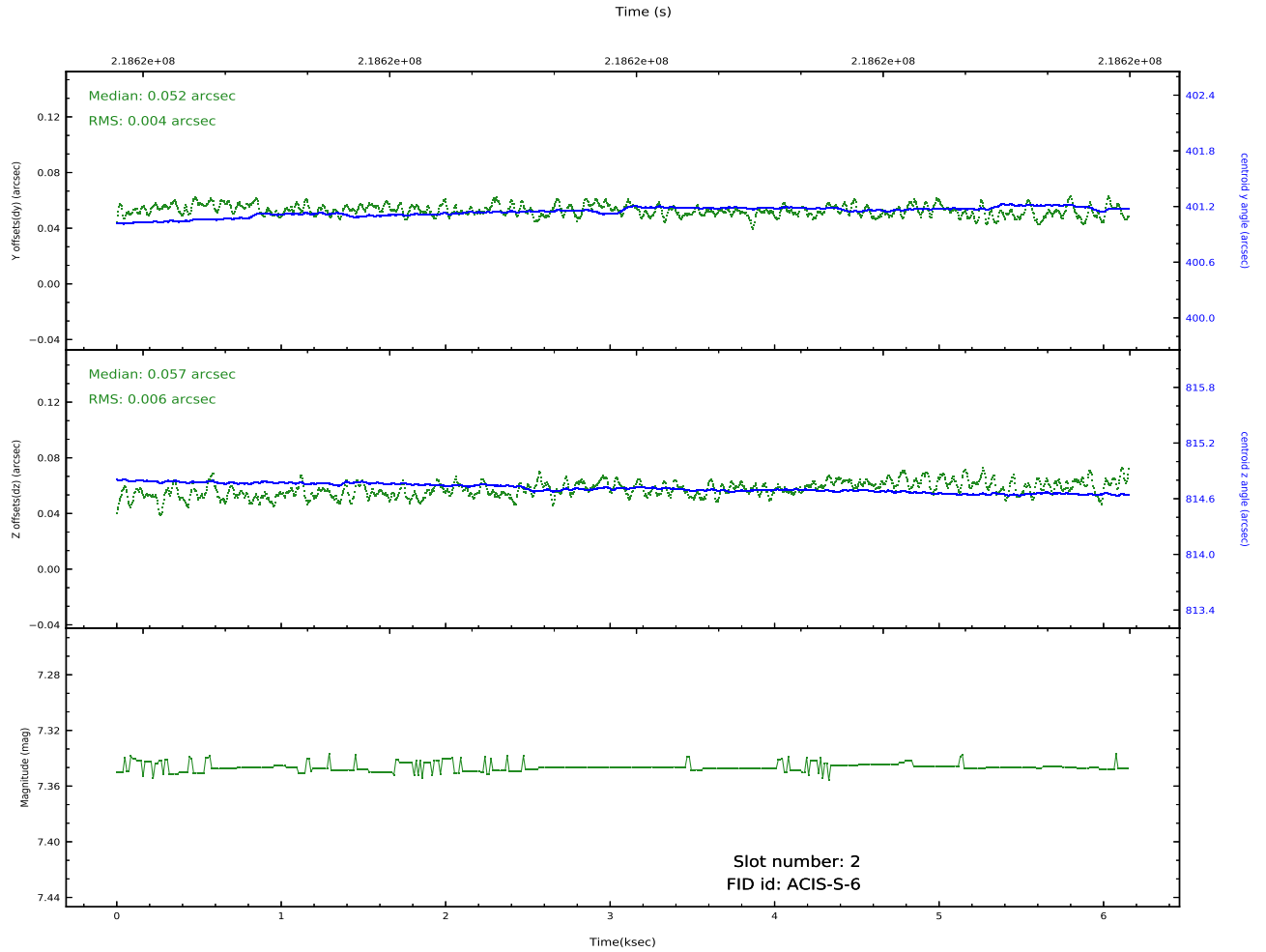
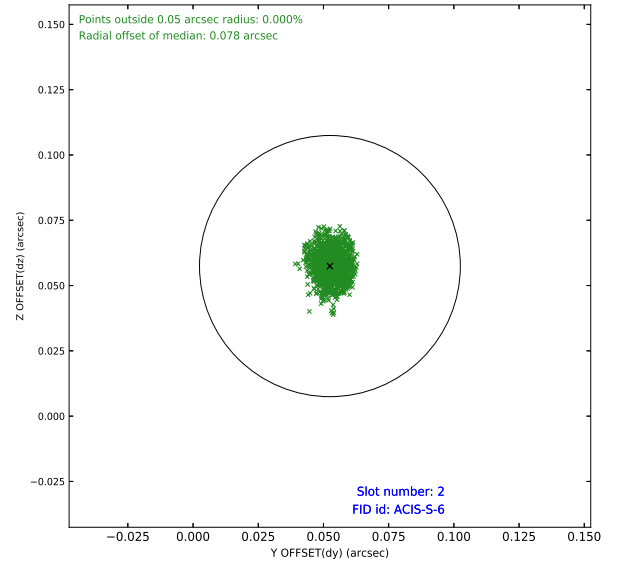
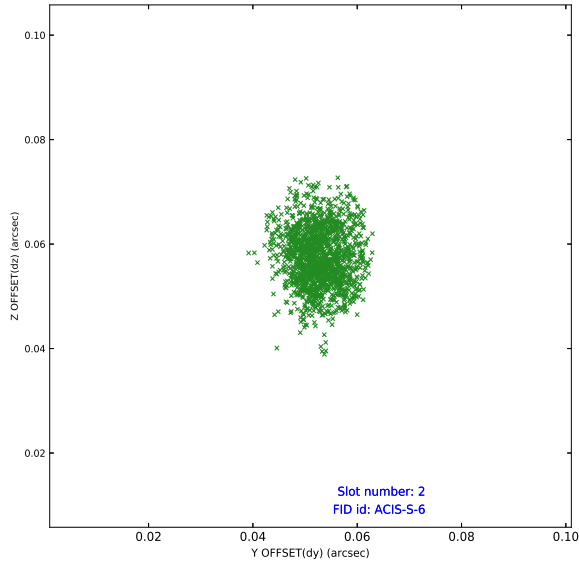
2.5.1 Slot 0



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)	2020.10.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.753599

A.2 Comments

Joint proposal with NOAO.