

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4698 - L2 Version 5
Chandra X-Ray Center

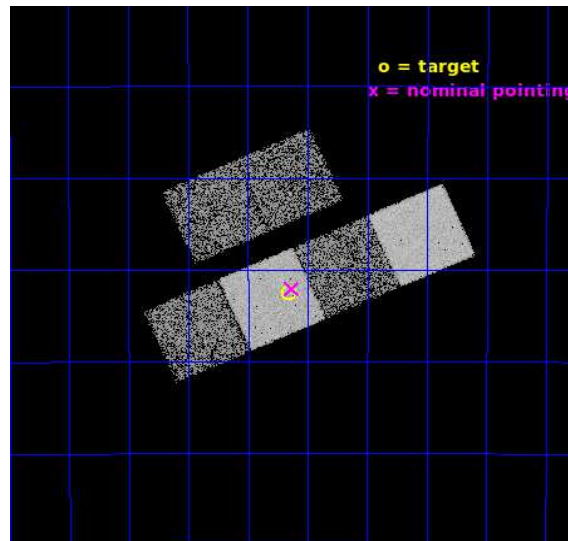
L2 Processing Date : Sep 25 2020

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1 Front

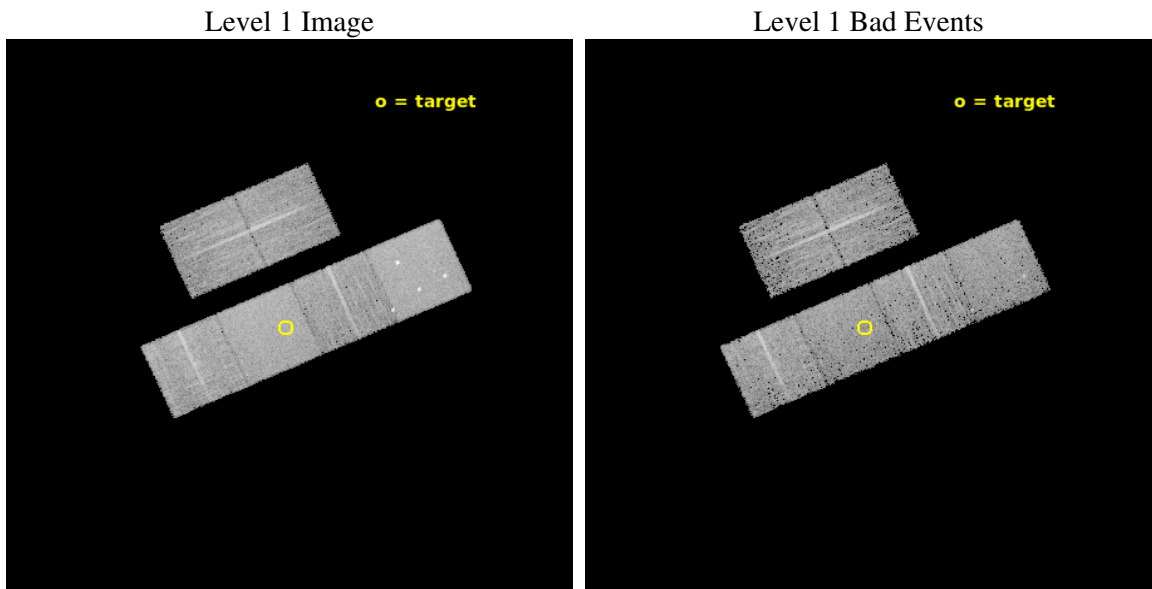
seq_num	600353	Sequence number
obs_id	4698	Observation id
title	Using the Sculptor Dwarf Spheroidal Galaxy to Constrain X-ray Binary Production in Population II	Proposal title
observer	Thomas Maccarone	Principal investigator
object	SCULPTOR DWARF SPHEROIDAL	Source name
dtcycle	0	
cycle	P	events from 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	15.032968516319	Nominal RA [deg]
dec_nom	-33.701086828471	Nominal Dec [deg]
roll_nom	155.96535502636	Nominal Roll [deg]
revision	5	Processing version of data
ontime	6137.5999771357	Sum of GTIs [s]
livetime	6059.8819906061	Livetime [s]
ontime2	6137.5999771357	Sum of GTIs [s]
ontime3	6137.5999771357	Sum of GTIs [s]
ontime5	6137.5999771357	Sum of GTIs [s]
ontime6	6134.358986944	Sum of GTIs [s]
ontime7	6137.5999771357	Sum of GTIs [s]
ontime8	6137.5999771357	Sum of GTIs [s]
l2events	68204	Number of level 2 events



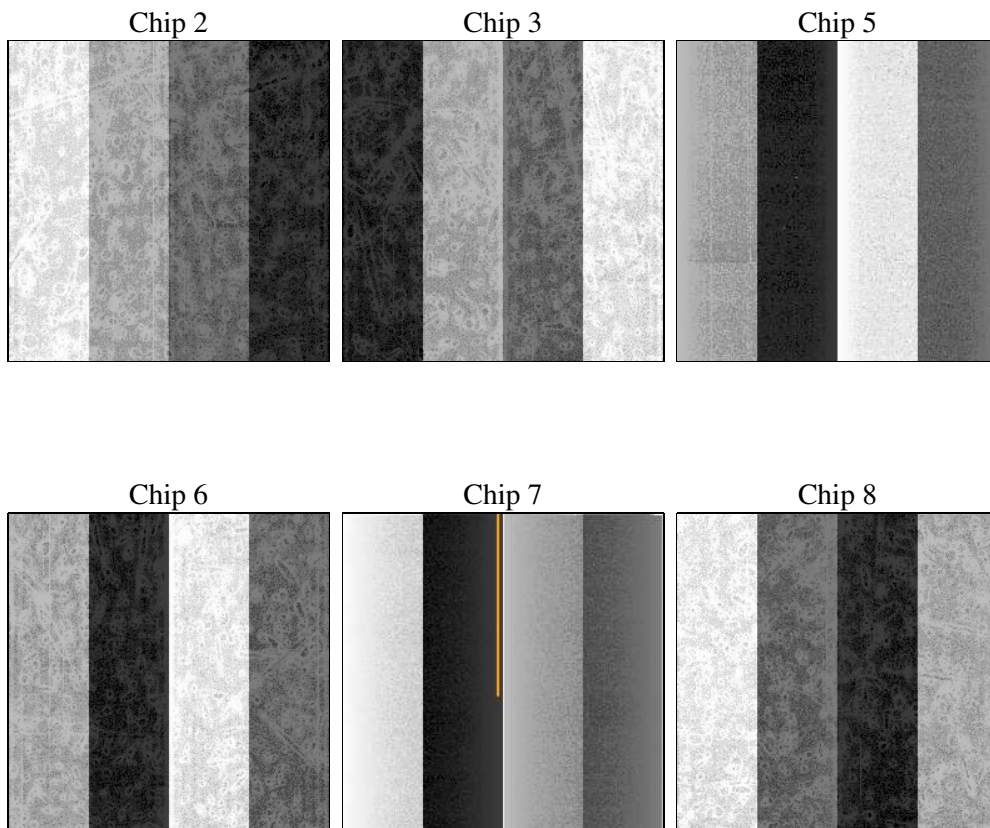
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	6137.5999771357	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	6137.5999771357	Sum of GTIs [s]
date	2020-09-25T08:57:32	Date and time of file creation	ontime3	6137.5999771357	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	6137.5999771357	Sum of GTIs [s]
			ontime6	6134.358986944	Sum of GTIs [s]
			ontime7	6137.5999771357	Sum of GTIs [s]
			ontime8	6137.5999771357	Sum of GTIs [s]
			l1events	351144	Number of level 1 events

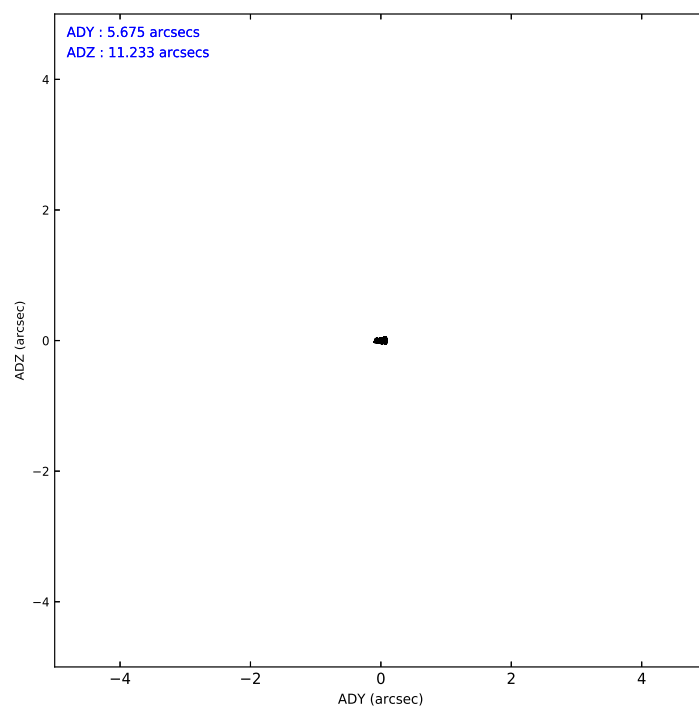
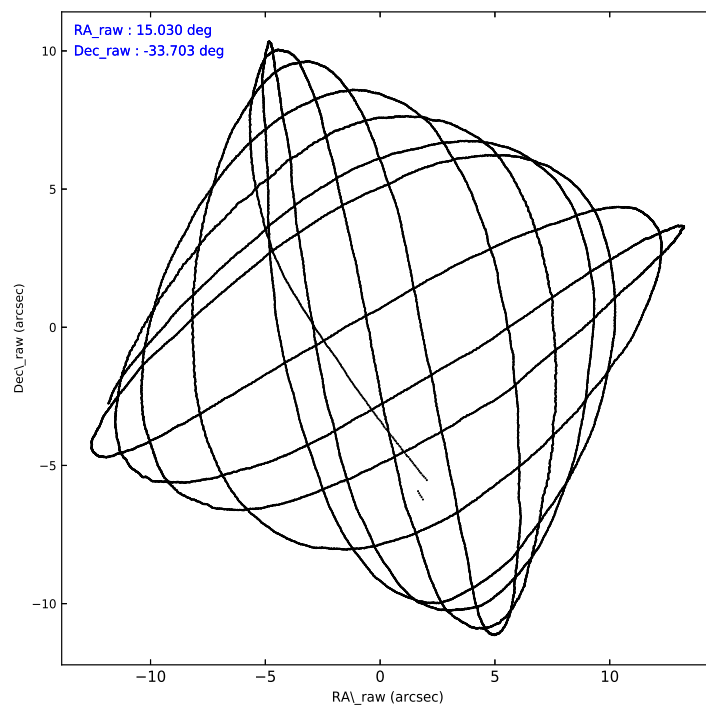
2.1.4 Events

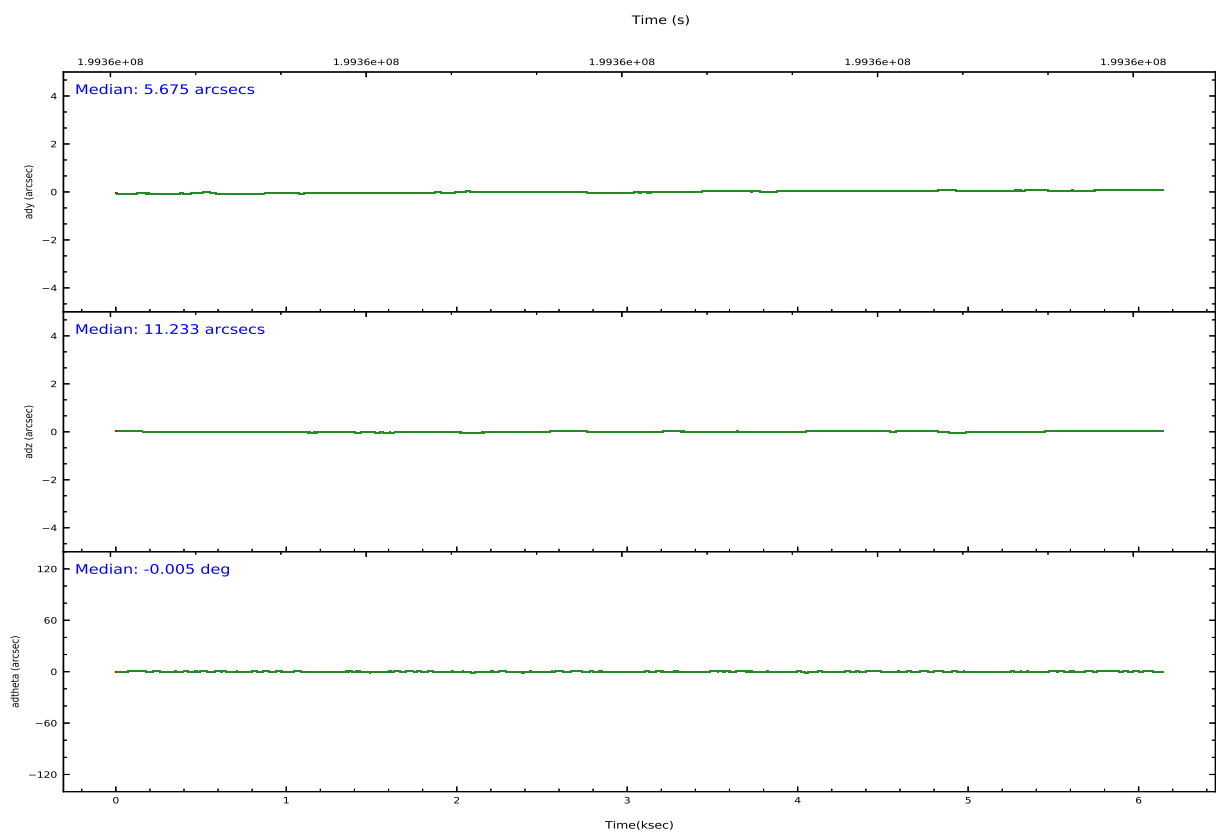
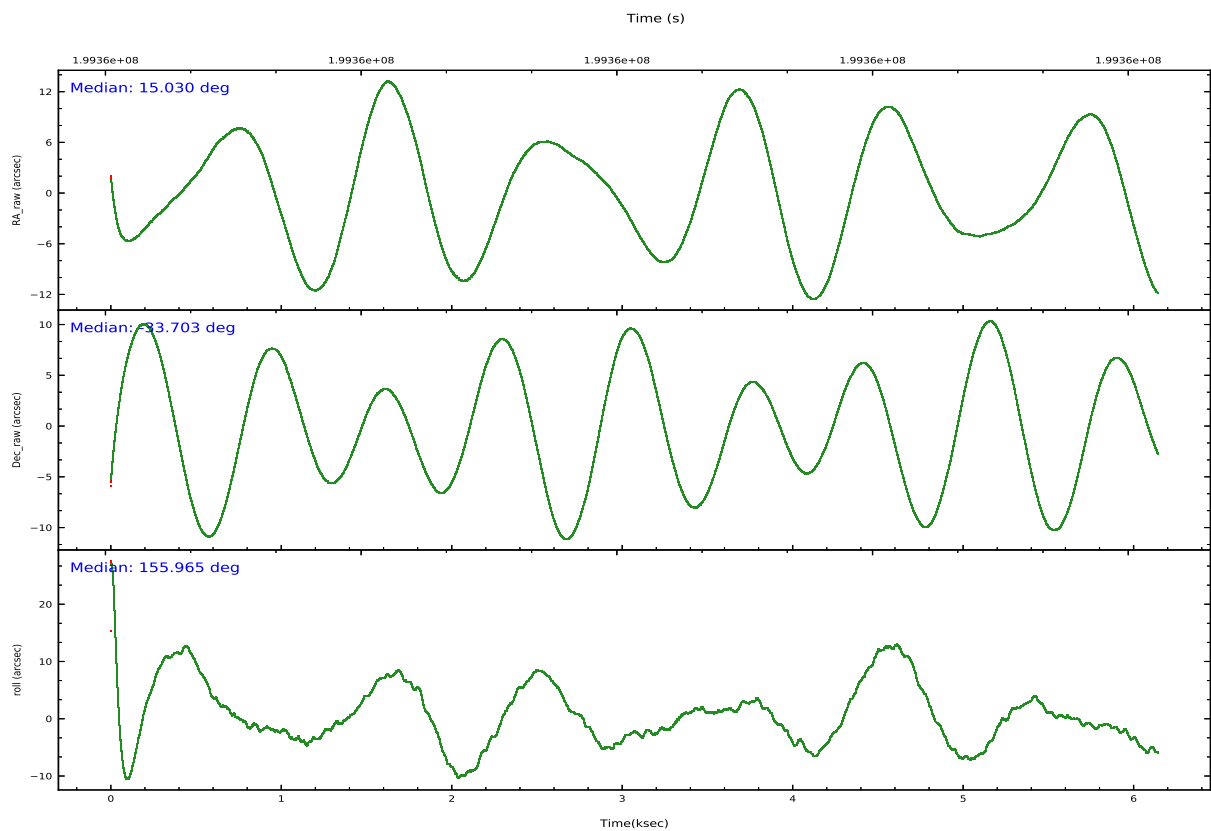
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	47758	47796	76350	50762	67052	61426	grade 0 events	2567	2554	5277	2367	2444	3972
rejected events	42774	42881	45247	45694	43252	50176		5%	5%	6%	4%	3%	6%
rejected %	89%	89%	59%	90%	64%	81%	grade 1 events	27	27	251	17	56	38
								0%	0%	0%	0%	0%	0%
							grade 2 events	1138	1073	10277	1157	5380	2934
								2%	2%	13%	2%	8%	4%
							grade 3 events	508	477	1370	568	2457	1272
								1%	0%	1%	1%	3%	2%
							grade 4 events	549	553	1303	549	2371	1204
								1%	1%	1%	1%	3%	1%
							grade 5 events	1944	2163	5447	2277	6391	2905
								4%	4%	7%	4%	9%	4%
							grade 6 events	936	1018	17594	1174	14706	3450
								1%	2%	23%	2%	21%	5%
							grade 7 events	40089	39931	34831	42653	33247	45651
								83%	83%	45%	84%	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	15.062049	15.032968516319	Subarray requested	NONE	NONE
[deg] Pointing Dec	-33.700258	-33.701086828471	Alternating exposures requested	N	N
[deg] Pointing Roll	155.825356	155.96535502636	[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)	199357175.184000	199355678.01332			
Observation start date	2004-04-26T08:58:31	2004-04-26T08:34:38			
[s] Observation end time (MET)	199363175.184000	199363777.56367			
Observation end date	2004-04-26T10:38:31	2004-04-26T10:49:37			
Read mode	TIMED	TIMED			

2.3 Aspect



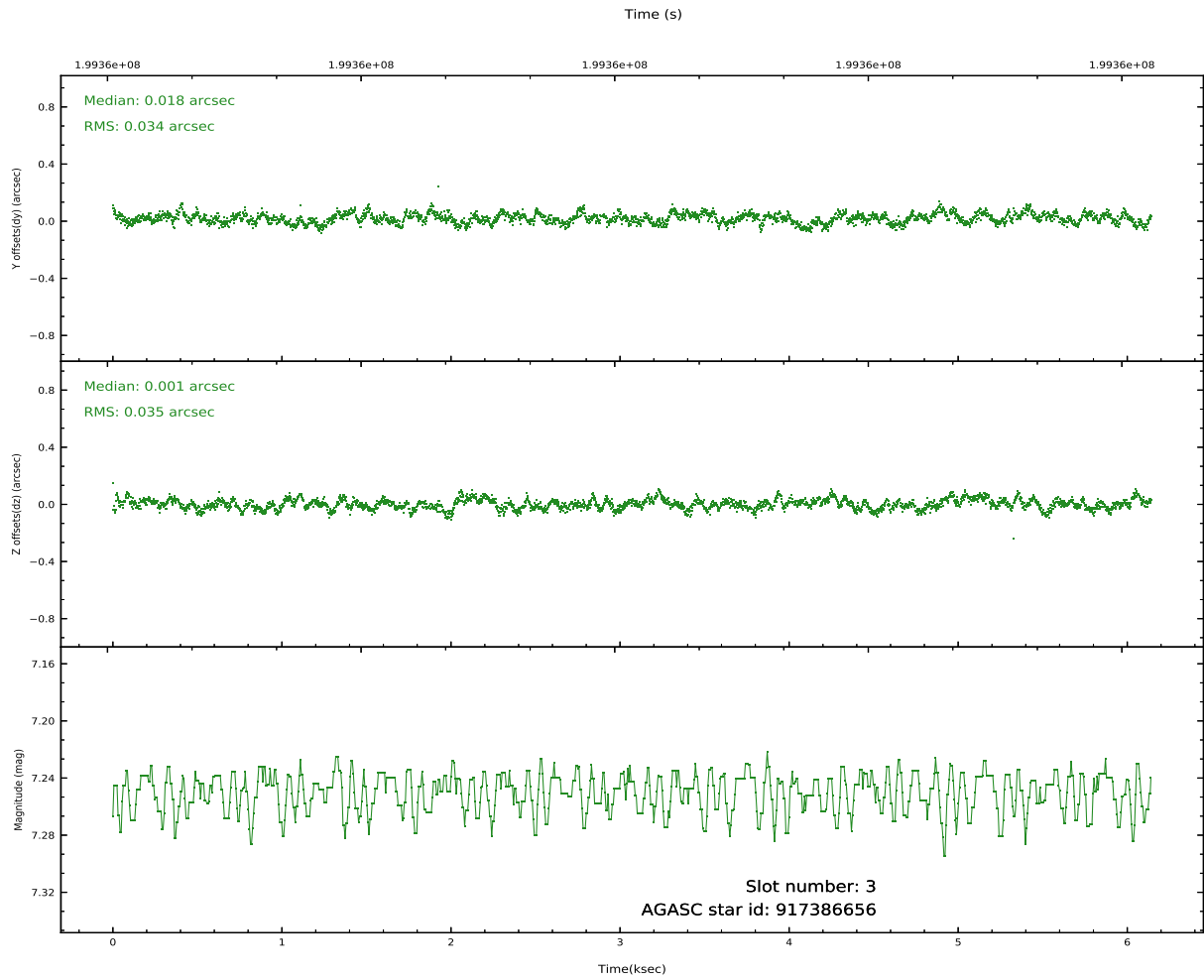
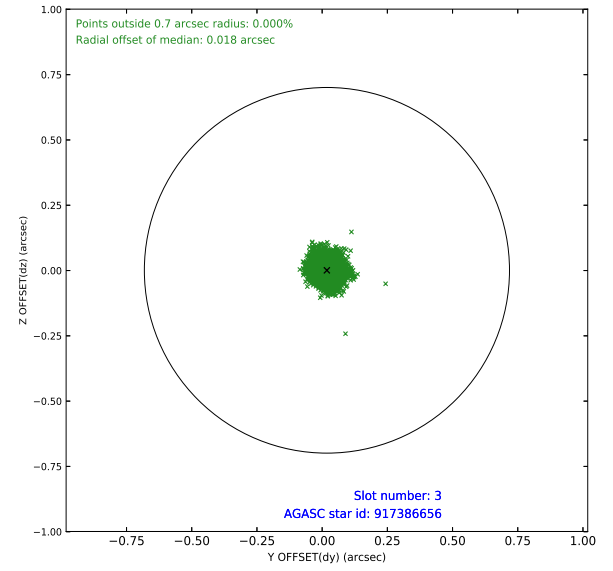
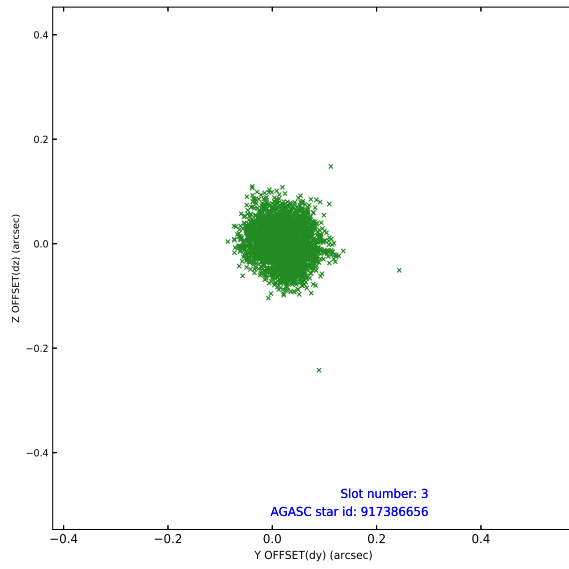


Slot Statistics

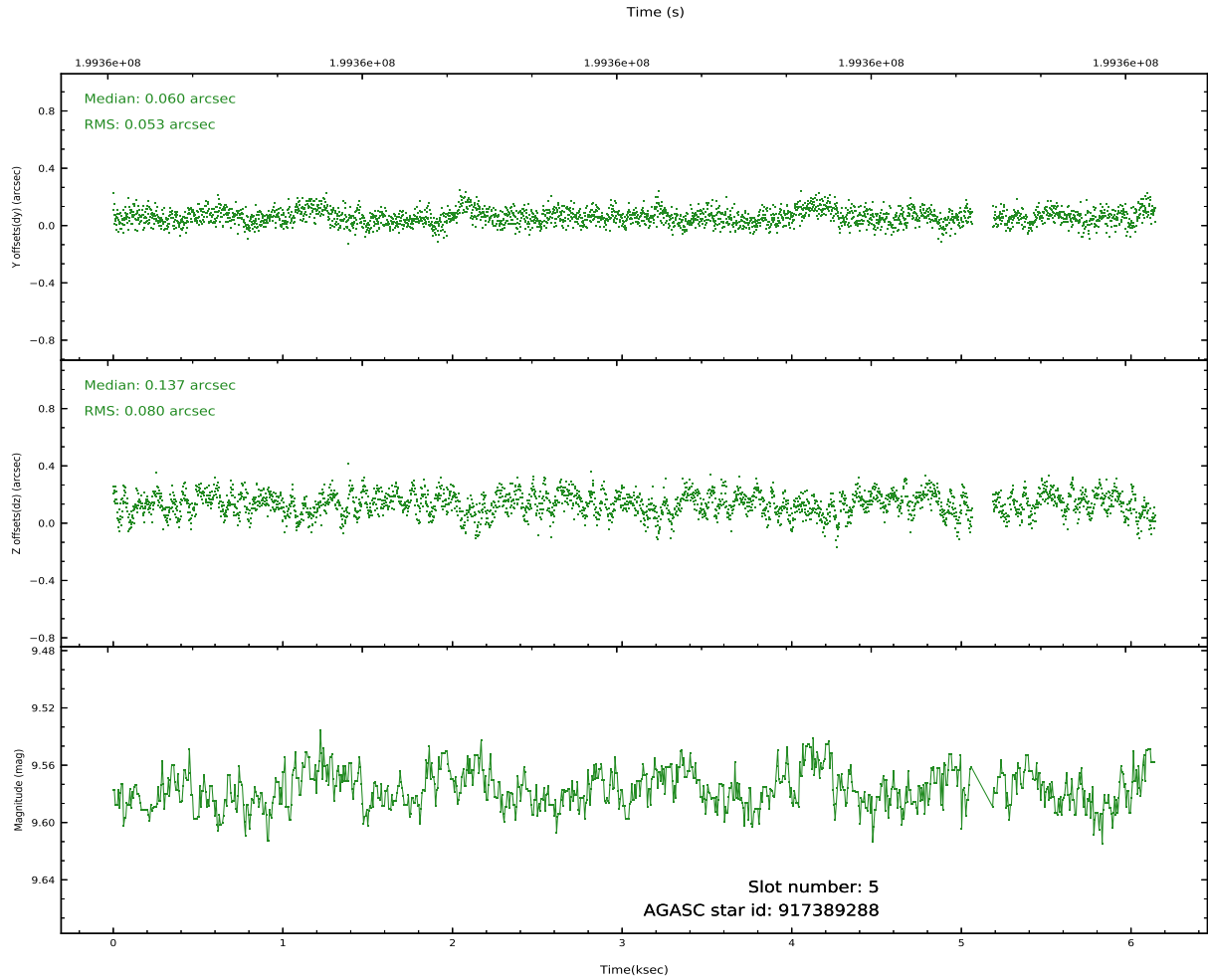
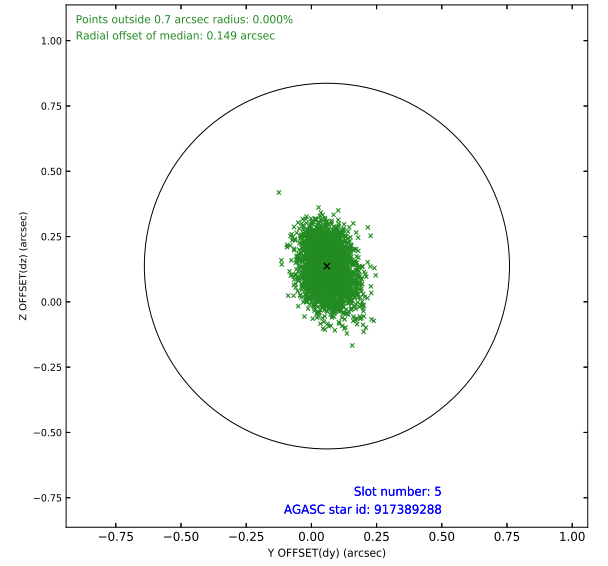
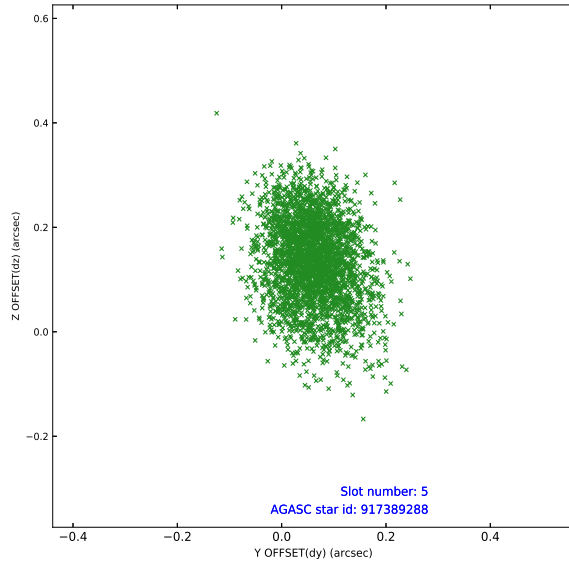
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	1499	1.000	-0.080	-0.044	0.006	0.011	0.000000	0.000000	-758.44	-1732
1	FID		ACIS-S-4	7.20	1499	1.000	0.131	0.050	0.006	0.011	0.000000	0.000000	2154.58	175
2	FID		ACIS-S-5	7.23	1499	1.000	-0.083	0.003	0.007	0.011	0.000000	0.000000	-1810.08	169
3	GUIDE	used	917386656	7.25	2996	1.000	0.018	0.001	0.053	0.082	15.342124	-33.359890	-266.75	-1461
4	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
5	GUIDE	used	917389288	9.58	2932	1.000	0.060	0.137	0.102	0.169	15.394706	-33.185862	-156.30	-2098
6	GUIDE	used	917650528	8.72	2997	1.000	-0.065	-0.127	0.056	0.094	14.274554	-33.869842	1893.69	1528
7	GUIDE	used	917651768	9.63	2992	1.000	-0.014	-0.006	0.101	0.162	14.115744	-33.817552	2404.38	1557

2.4 Star Slots

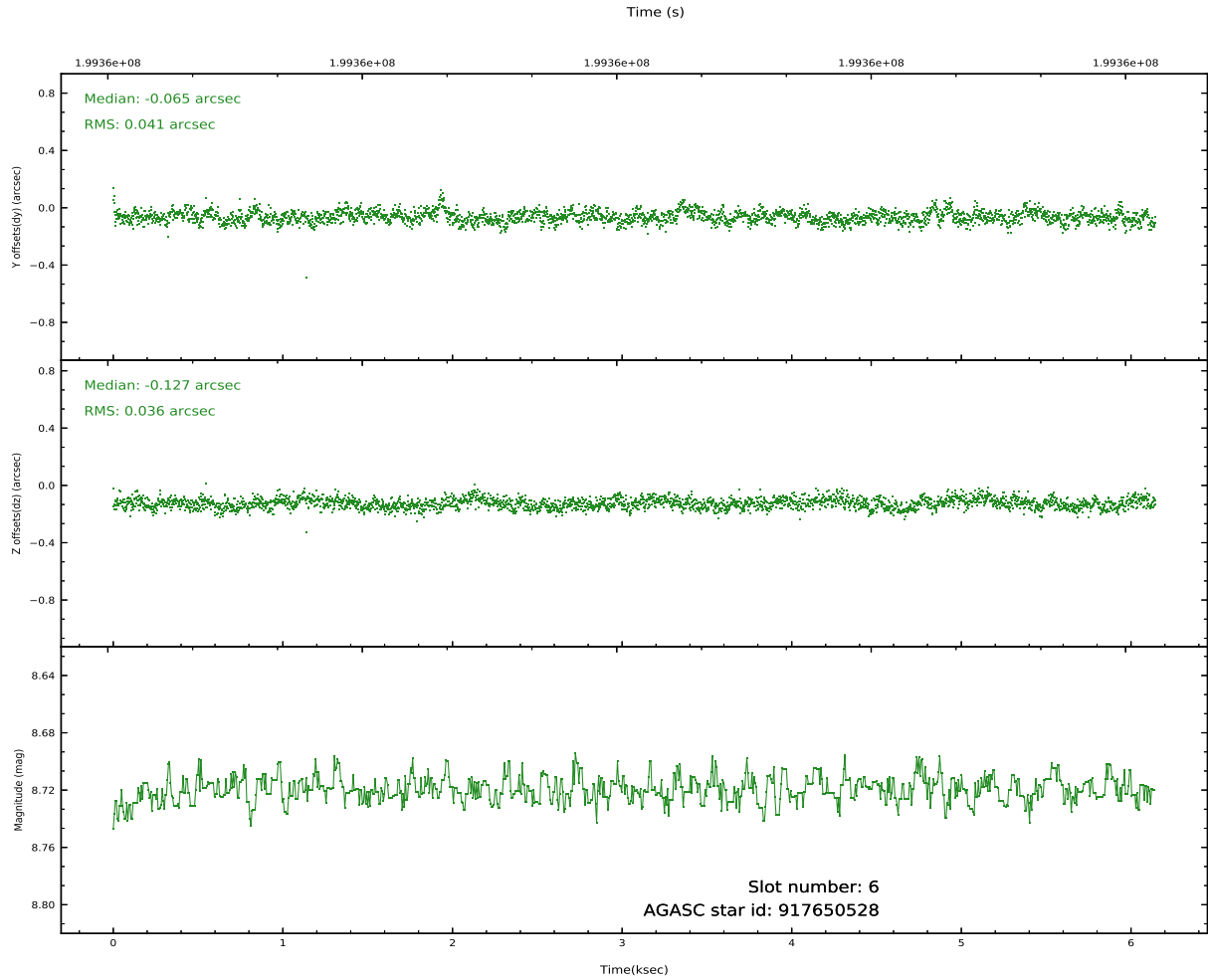
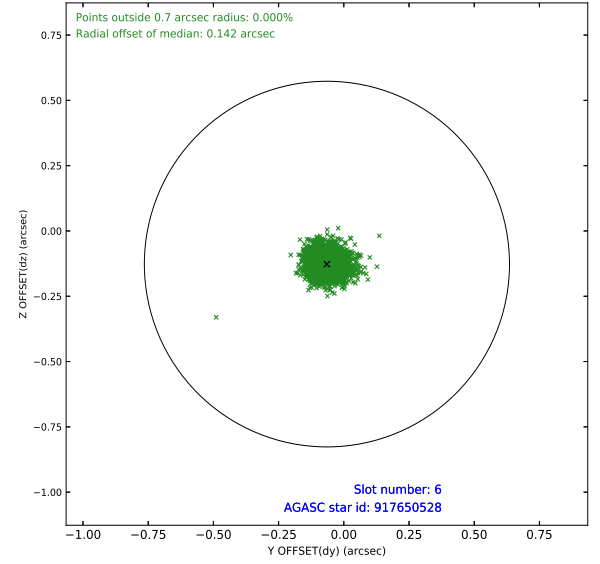
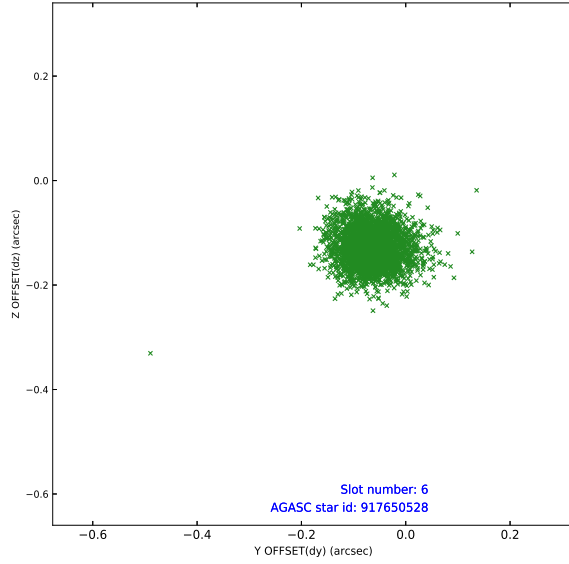
2.4.1 Slot 3



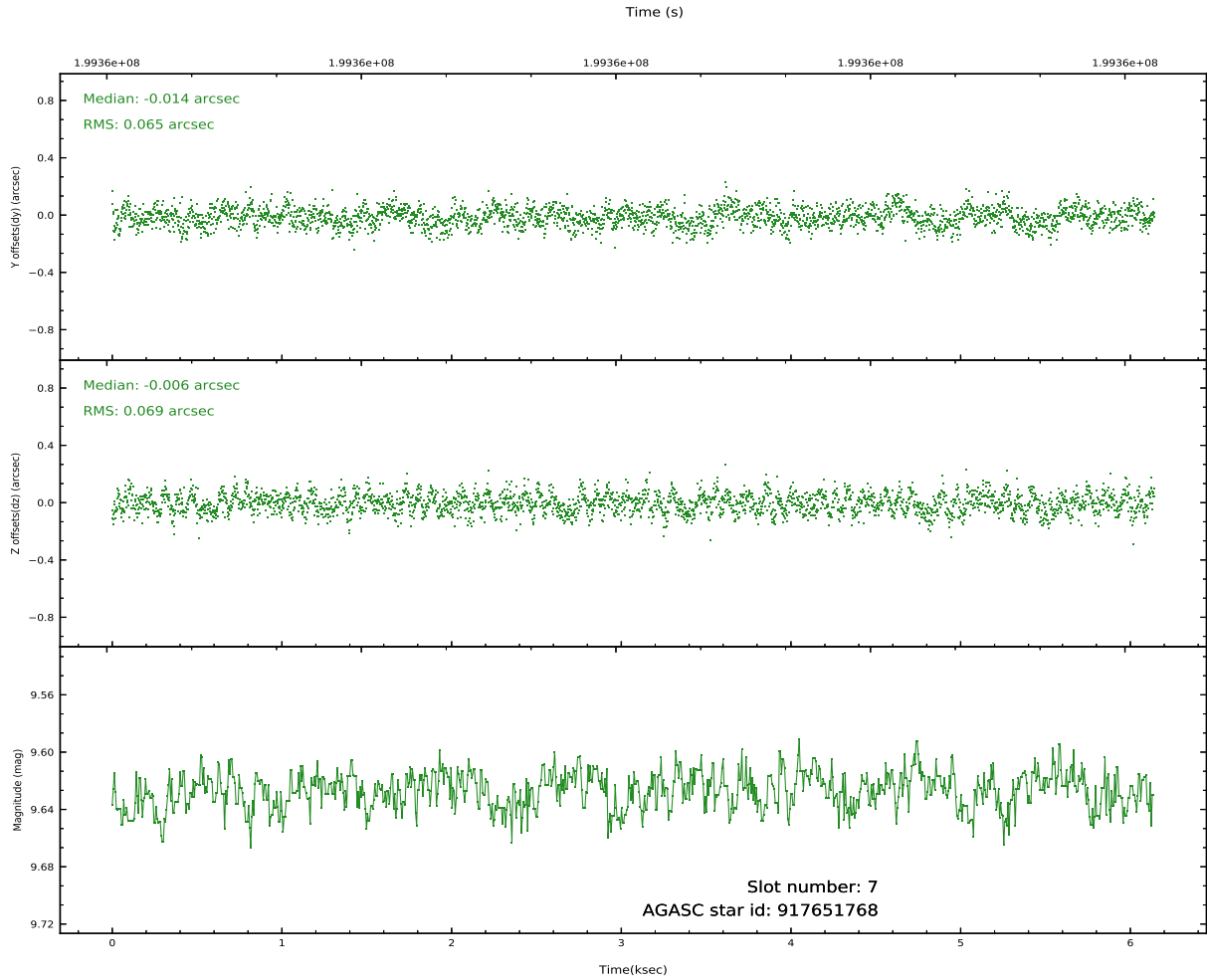
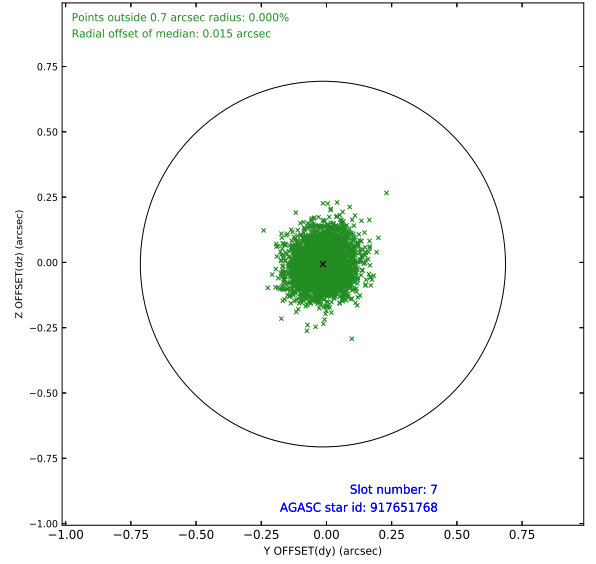
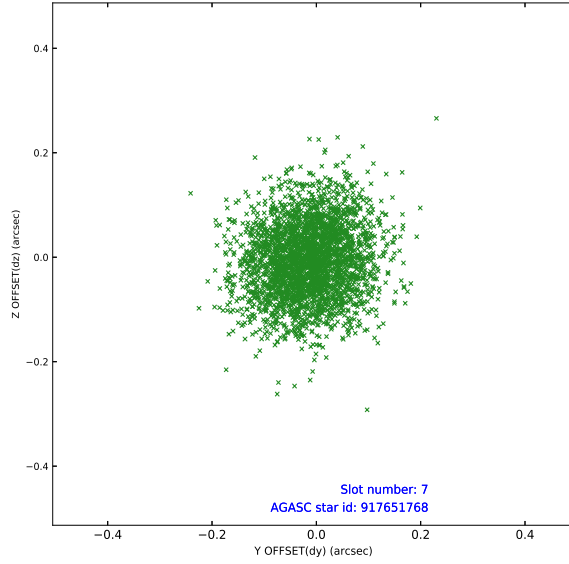
2.4.2 Slot 5



2.4.3 Slot 6

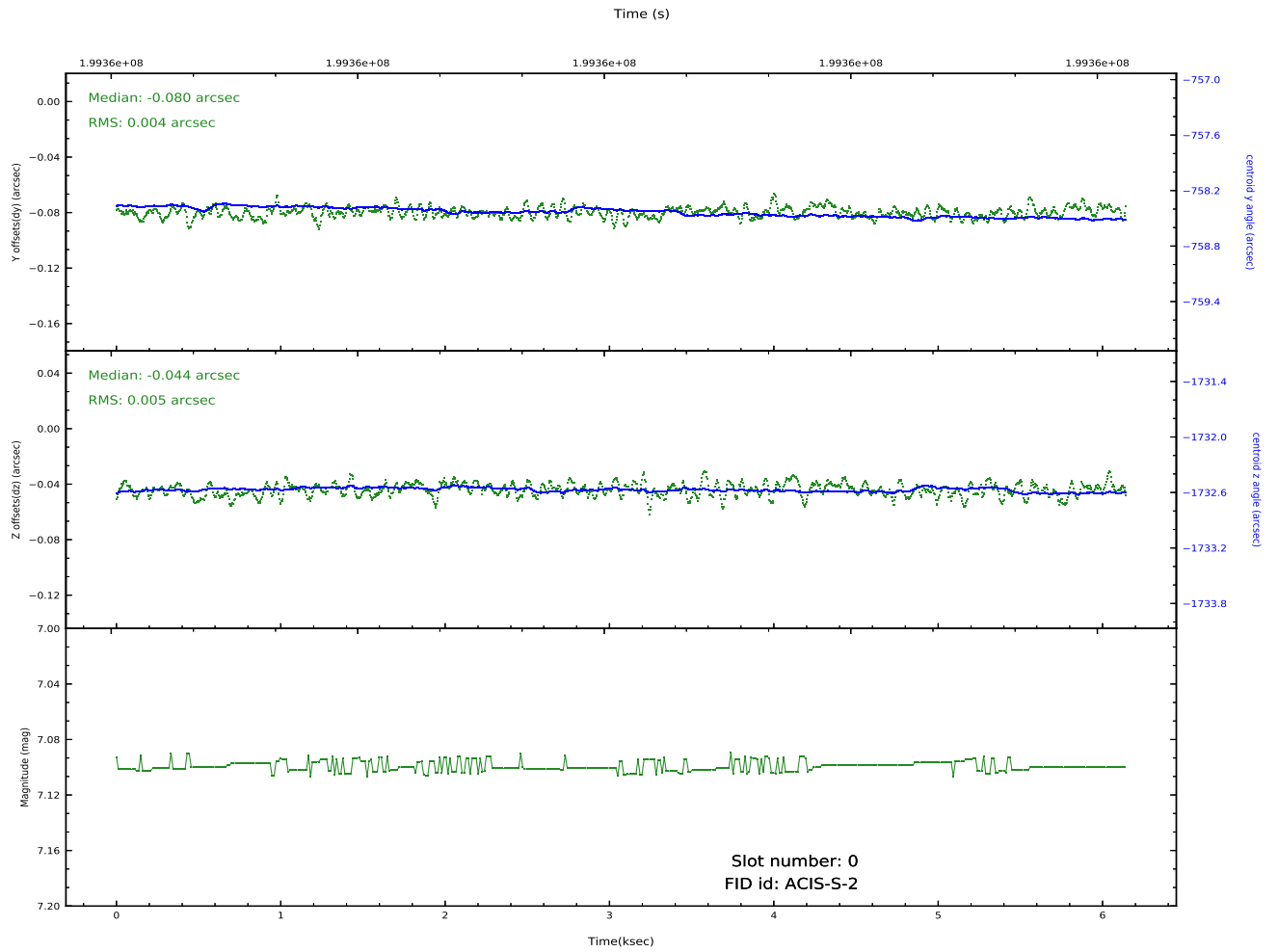
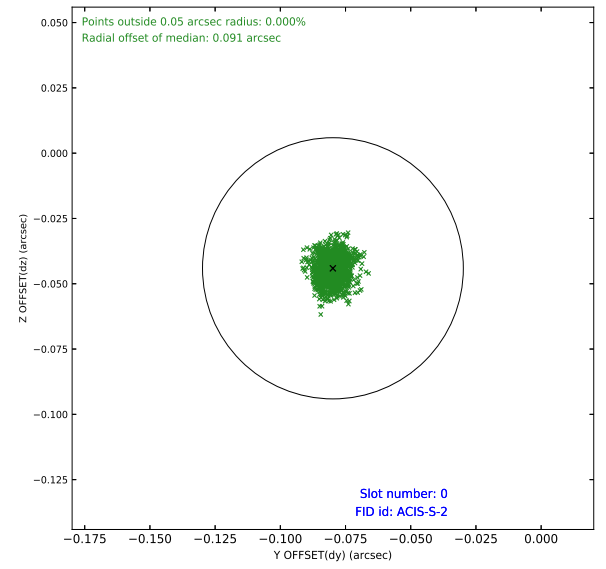
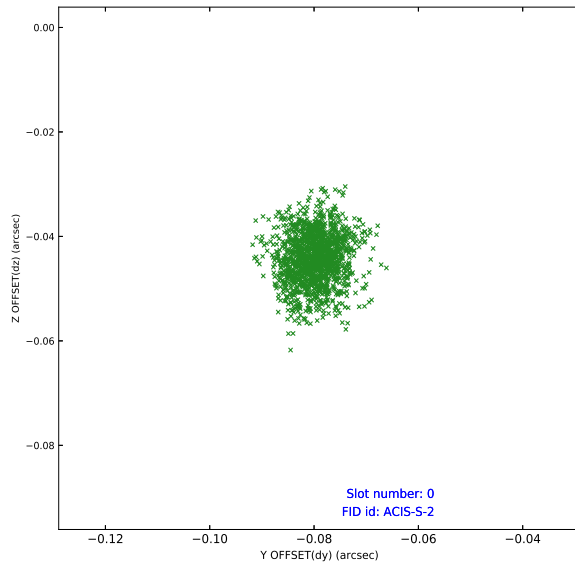


2.4.4 Slot 7

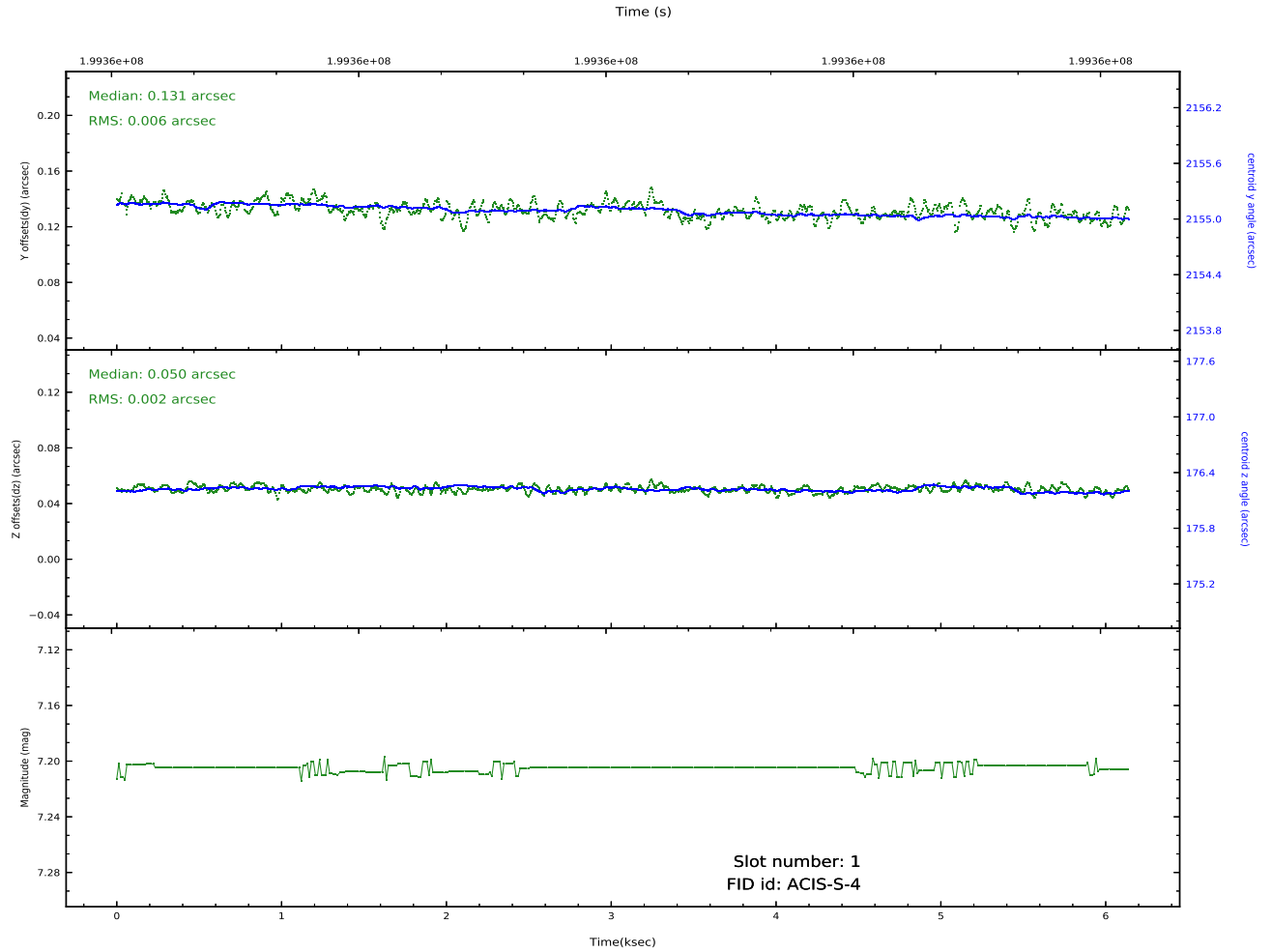
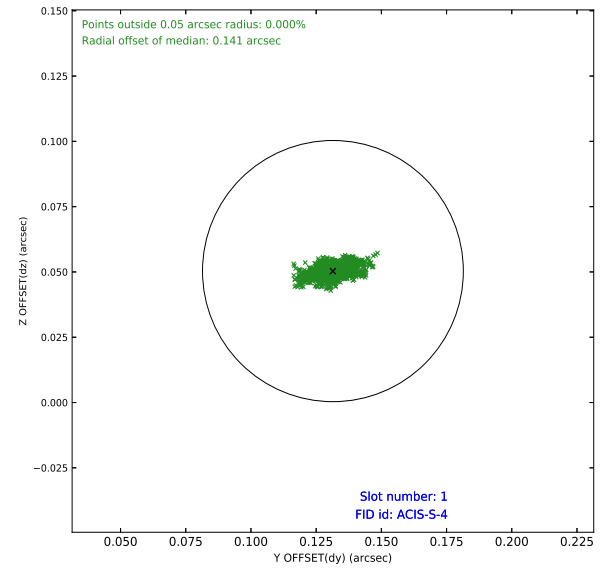
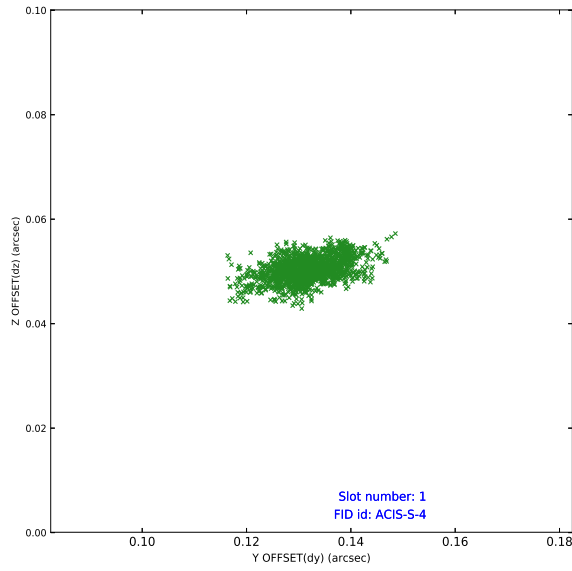


2.5 FID Slots

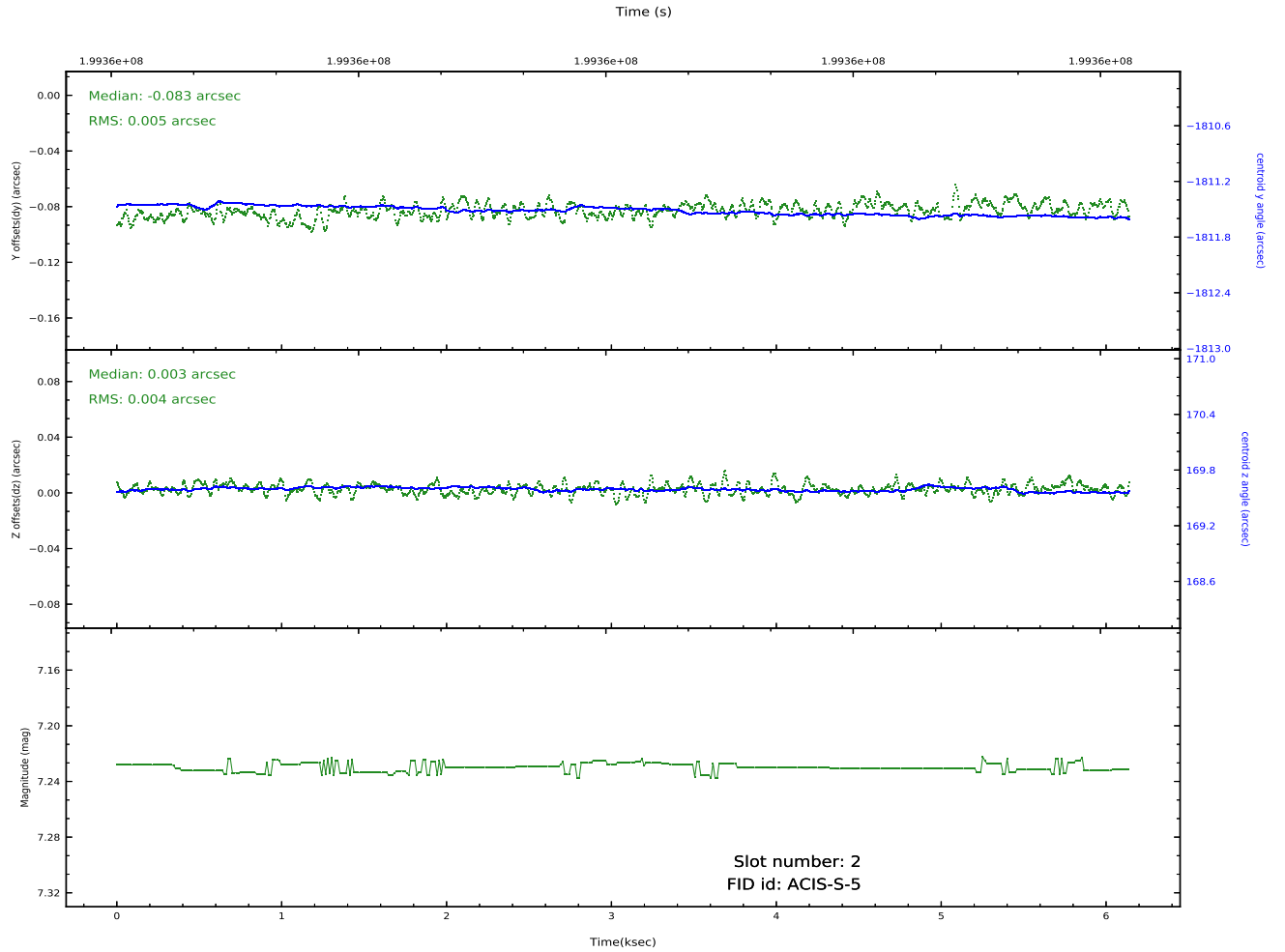
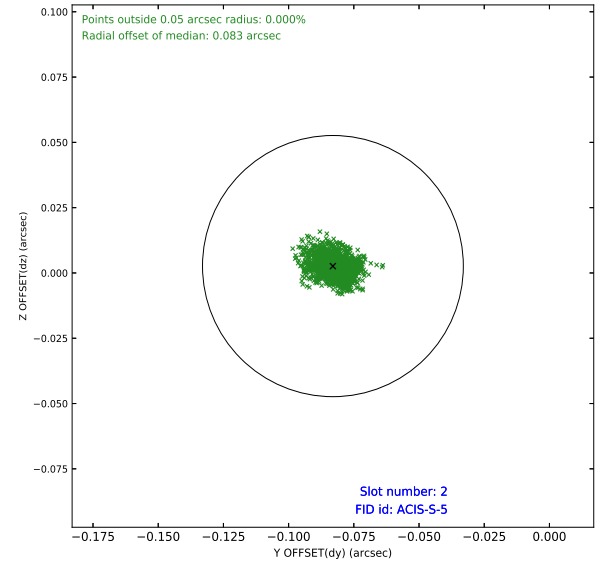
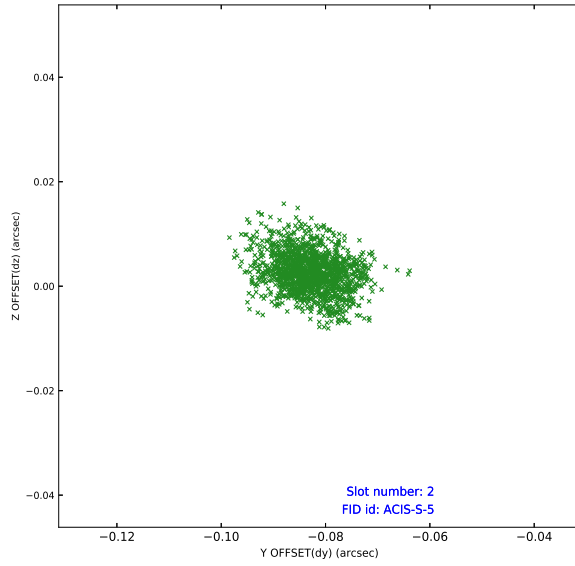
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.137

A.2 Comments

Joint Proposal: NOAO

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The guide star in slot 4 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this guide star from the solution.