

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5585 - L2 Version 4
Chandra X-Ray Center

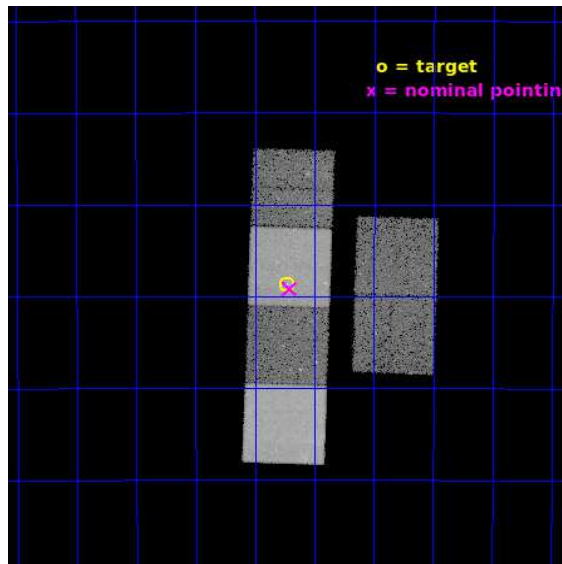
L2 Processing Date : Oct 5 2020

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1 Front

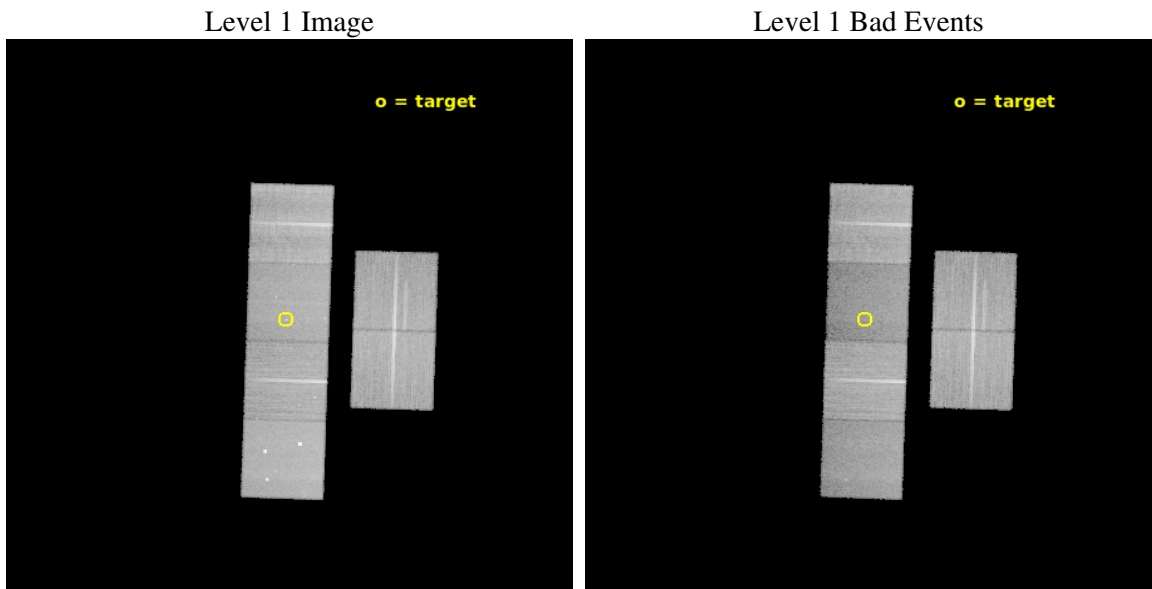
seq_num	500574	Sequence number
obs_id	5585	Observation id
title	X-Ray Counterparts to Neutron Star Bow Shocks	Proposal title
observer	Dr. Shami Chatterjee	Principal investigator
object	PSR J2124-3358	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	321.1825	Observer's specified target RA [deg]
dec_targ	-33.978944	Observer's specified target Dec [deg]
ra_nom	321.17652614423	Nominal RA [deg]
dec_nom	-33.986172342279	Nominal Dec [deg]
roll_nom	271.84808719225	Nominal Roll [deg]
revision	4	Processing version of data
ontime	30156.799887657	Sum of GTIs [s]
livetime	29774.936329235	Livetime [s]
ontime2	30156.799887657	Sum of GTIs [s]
ontime3	30156.799887657	Sum of GTIs [s]
ontime5	30156.799887657	Sum of GTIs [s]
ontime6	30156.799887657	Sum of GTIs [s]
ontime7	30156.799887657	Sum of GTIs [s]
ontime8	30156.799887657	Sum of GTIs [s]
l2events	253075	Number of level 2 events



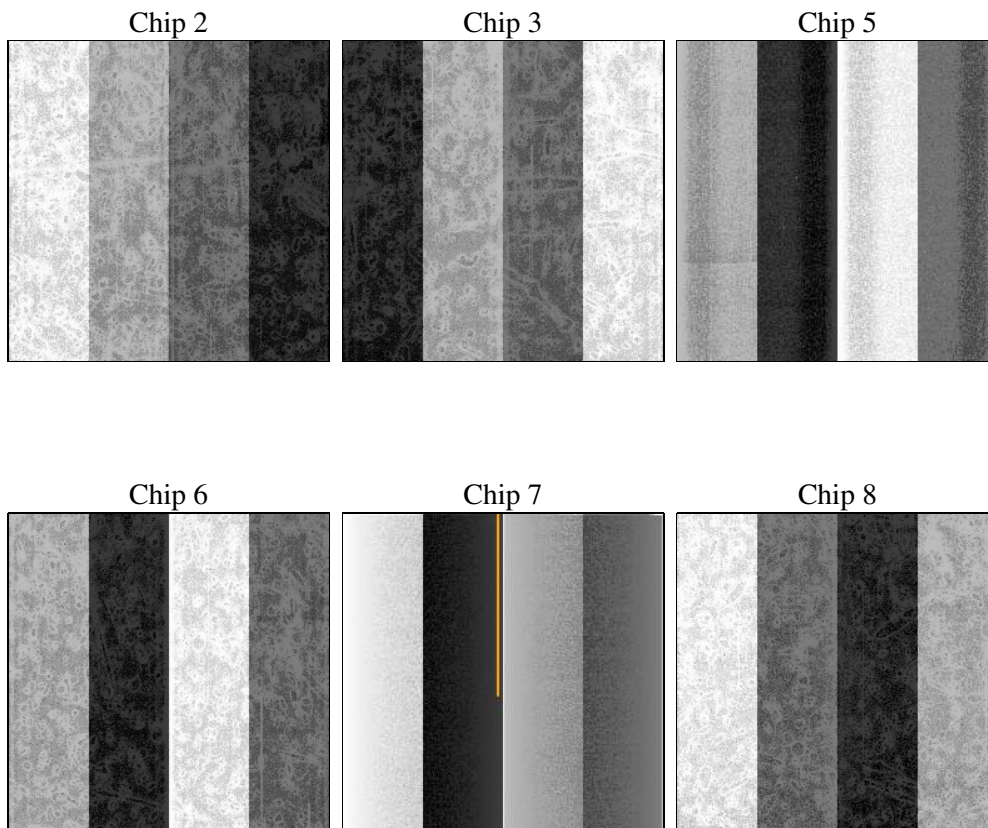
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	30156.799887657	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	30156.799887657	Sum of GTIs [s]
date	2020-10-05T18:26:41	Date and time of file creation	ontime3	30156.799887657	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	30156.799887657	Sum of GTIs [s]
			ontime6	30156.799887657	Sum of GTIs [s]
			ontime7	30156.799887657	Sum of GTIs [s]
			ontime8	30156.799887657	Sum of GTIs [s]
			l1events	1213776	Number of level 1 events

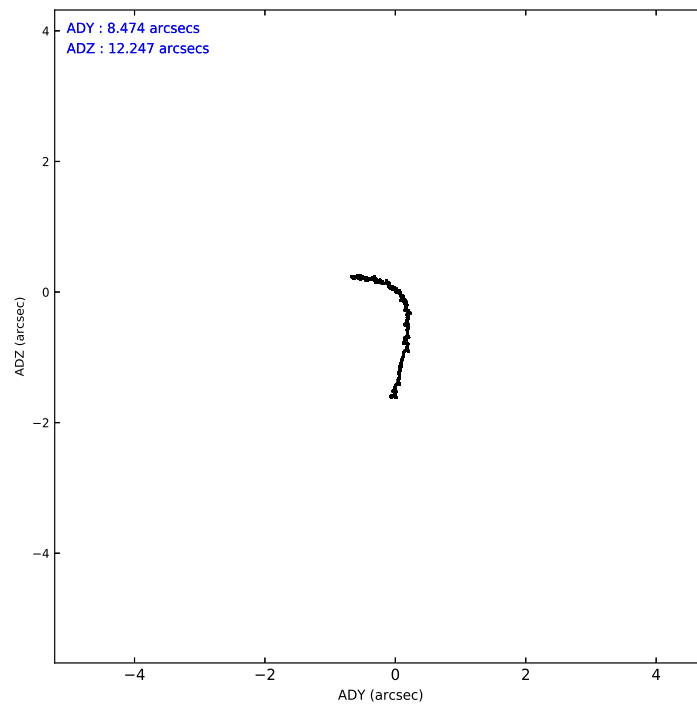
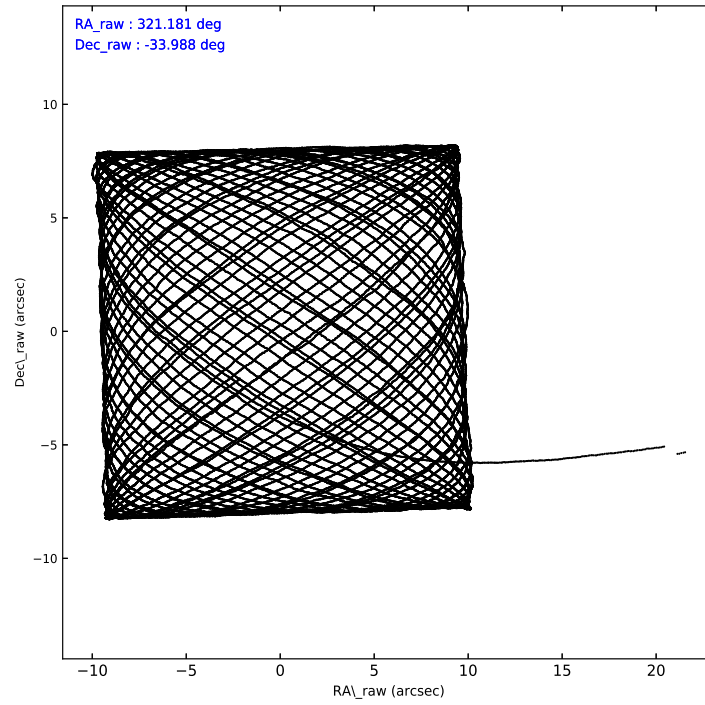
2.1.4 Events

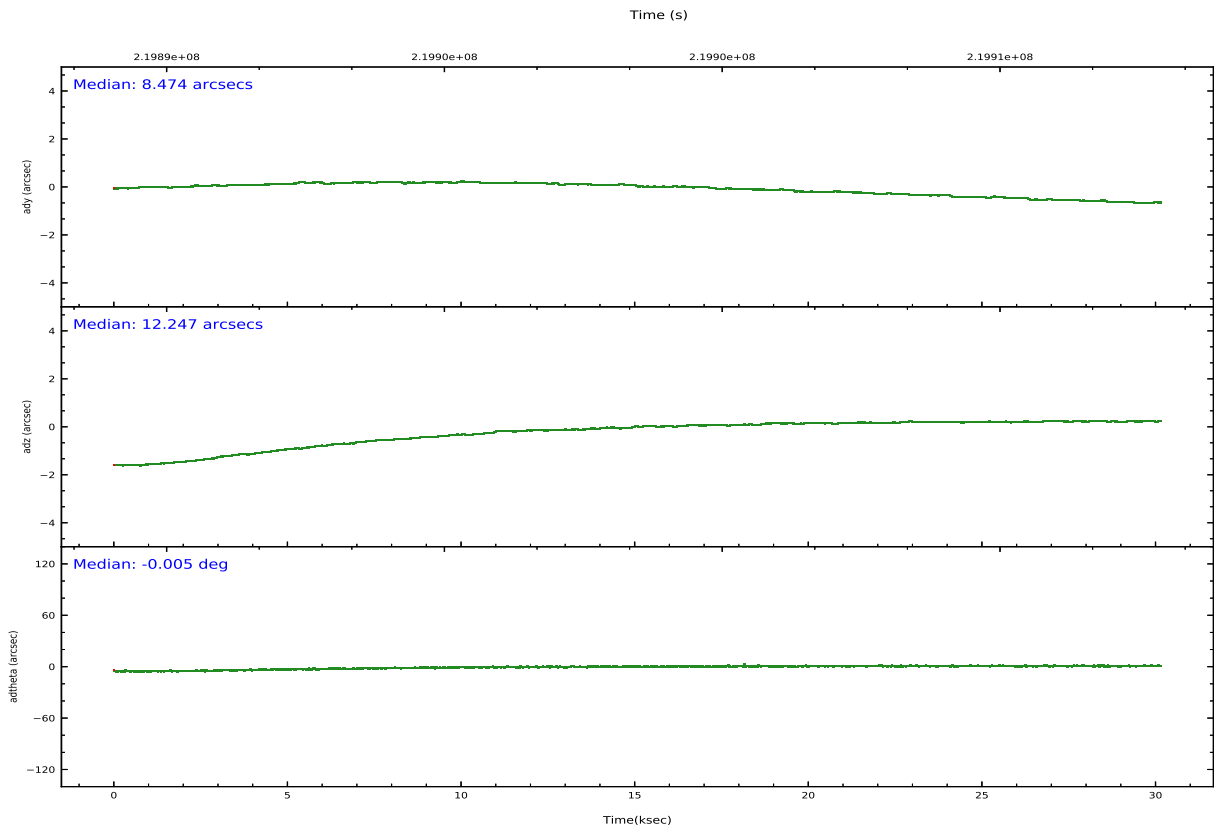
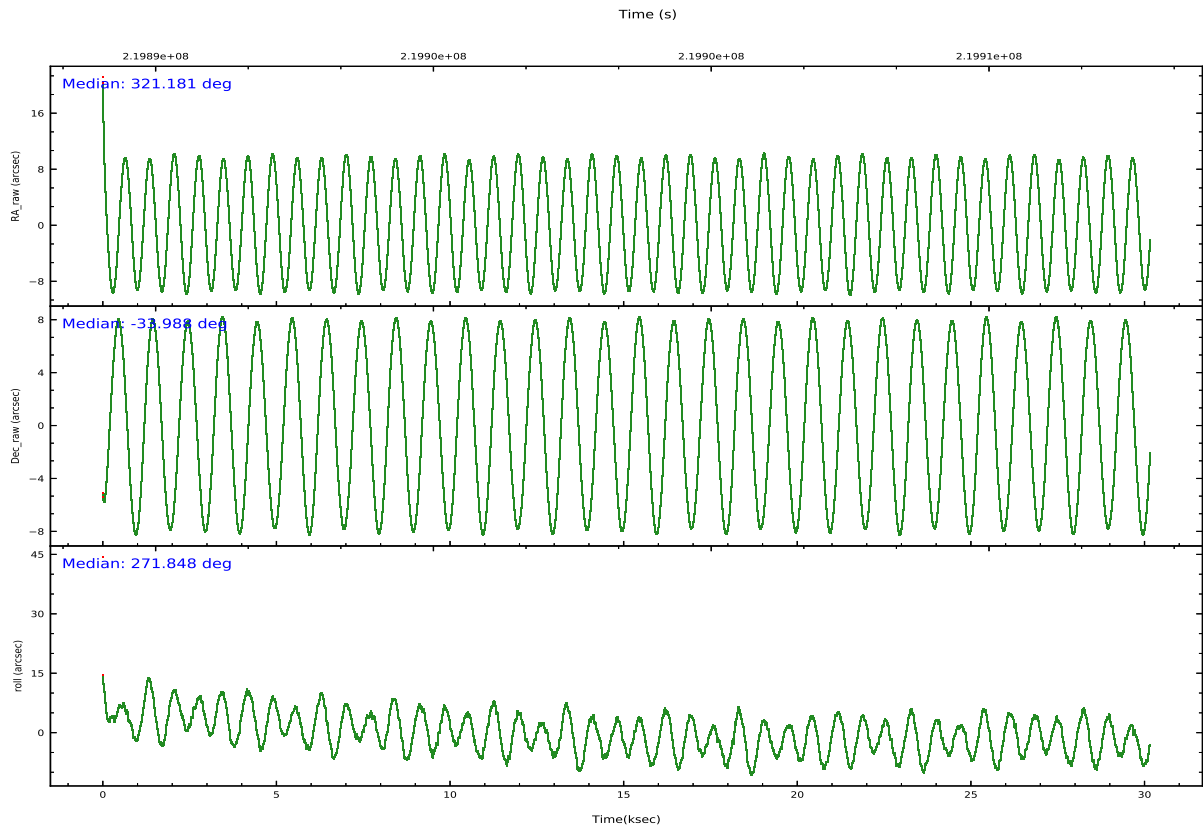
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	205724	181837	230341	192734	175310	227830	grade 0 events	6627	5911	17303	7380	8739	15009
rejected events	187883	165549	108296	173566	89466	174693		3%	3%	7%	3%	4%	6%
rejected %	91%	91%	47%	90%	51%	76%	grade 1 events	131	116	434	79	203	152
								0%	0%	0%	0%	0%	0%
							grade 2 events	4276	3428	35328	4019	18190	12305
								2%	1%	15%	2%	10%	5%
							grade 3 events	1950	1931	5423	2091	8452	6210
								0%	1%	2%	1%	4%	2%
							grade 4 events	2021	2027	5406	2101	8460	5805
								0%	1%	2%	1%	4%	2%
							grade 5 events	5292	5957	18595	6441	19029	9232
								2%	3%	8%	3%	10%	4%
							grade 6 events	3143	3174	59865	3788	42878	14339
								1%	1%	25%	1%	24%	6%
							grade 7 events	182284	159293	87987	166835	69359	164778
								88%	87%	38%	86%	39%	72%

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	321.163127	321.17652614423	Subarray requested	NONE	NONE
[deg] Pointing Dec	-33.965582	-33.986172342279	Alternating exposures requested	N	N
[deg] Pointing Roll	271.684669	271.84808719225	[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)	219886640.184000	219885430.06518			
Observation start date	2004-12-19T23:36:16	2004-12-19T23:17:10			
[s] Observation end time (MET)	219916640.184000	219917340.36662			
Observation end date	2004-12-20T07:56:16	2004-12-20T08:09:00			
Read mode	TIMED	TIMED			

2.3 Aspect





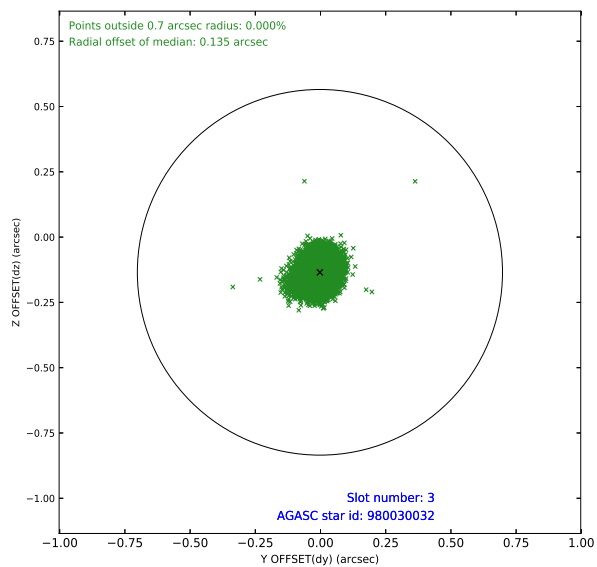
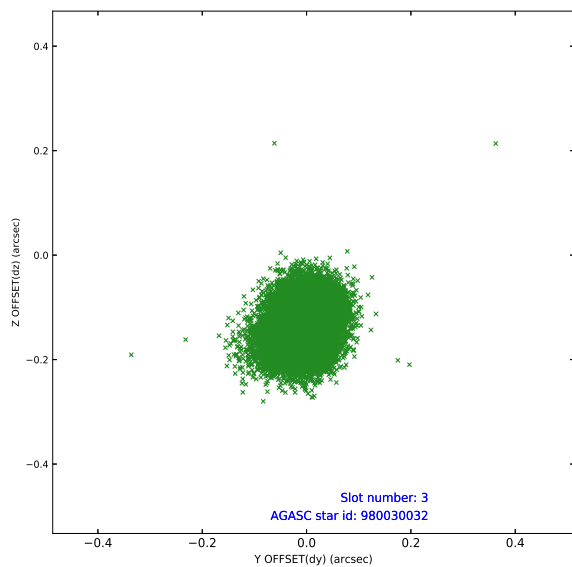
Slot Statistics

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	7355	1.000	-0.041	-0.065	0.012	0.031	0.000000	0.000000	-761.18	-1733
1	FID		ACIS-S-4	7.20	7357	1.000	0.162	0.038	0.020	0.029	0.000000	0.000000	2152.23	175
2	FID		ACIS-S-5	7.23	7357	1.000	-0.148	0.037	0.018	0.026	0.000000	0.000000	-1814.06	168
3	GUIDE	used	980030032	8.18	14712	1.000	-0.002	-0.135	0.060	0.096	320.713209	-33.668222	-1106.19	-1315
4	GUIDE	used	980030896	9.00	14707	1.000	-0.042	-0.107	0.077	0.126	320.885774	-33.670997	-1083.17	-798
5	GUIDE	used	980553736	8.77	14710	1.000	0.078	0.094	0.068	0.108	321.725540	-33.909896	-146.31	1685
6	GUIDE	used	980554264	9.26	14711	1.000	0.052	0.012	0.085	0.136	321.363795	-33.990137	106.82	596
7	GUIDE	used	980161800	9.63	14698	1.000	-0.093	0.136	0.127	0.206	321.947904	-33.438617	-1817.96	2412

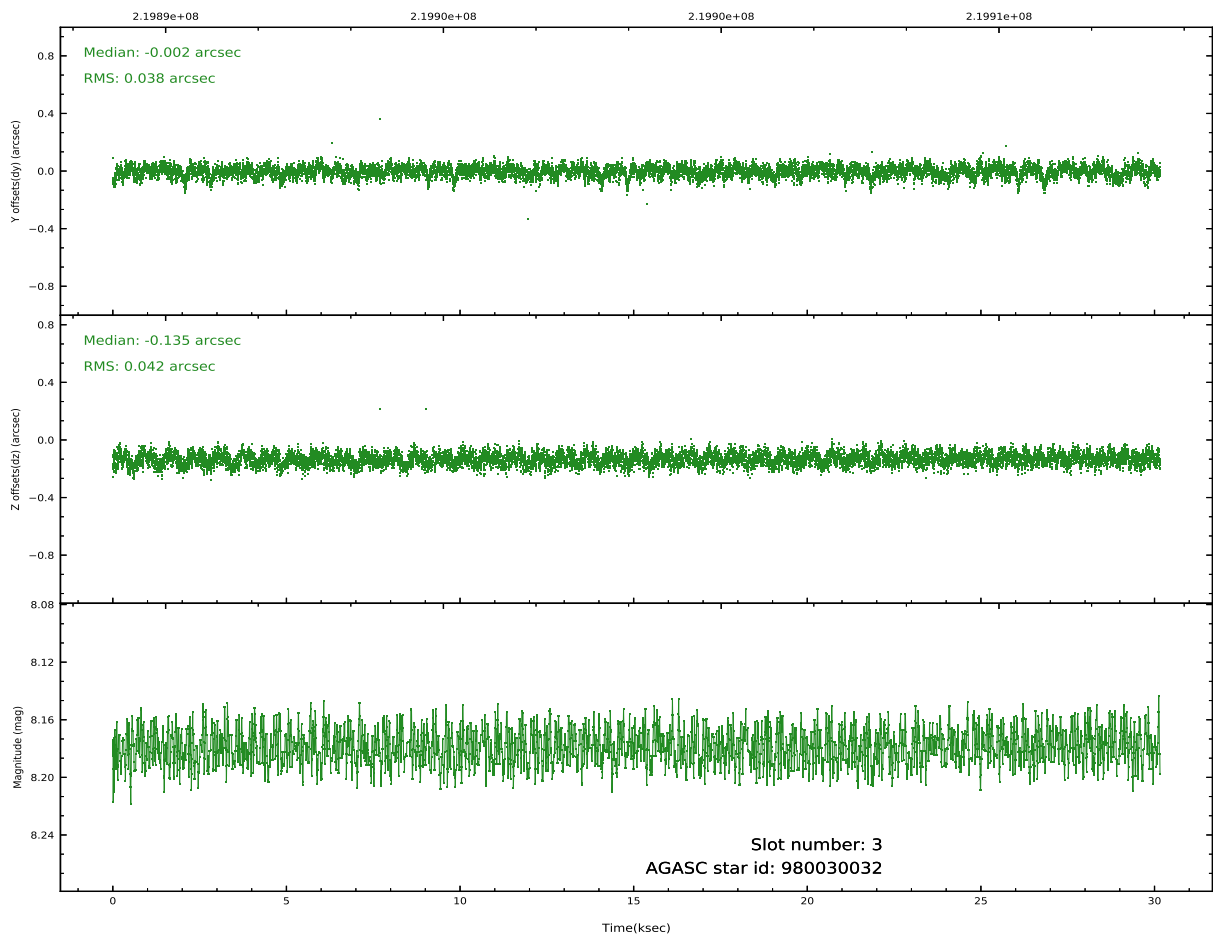
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2.4 Star Slots

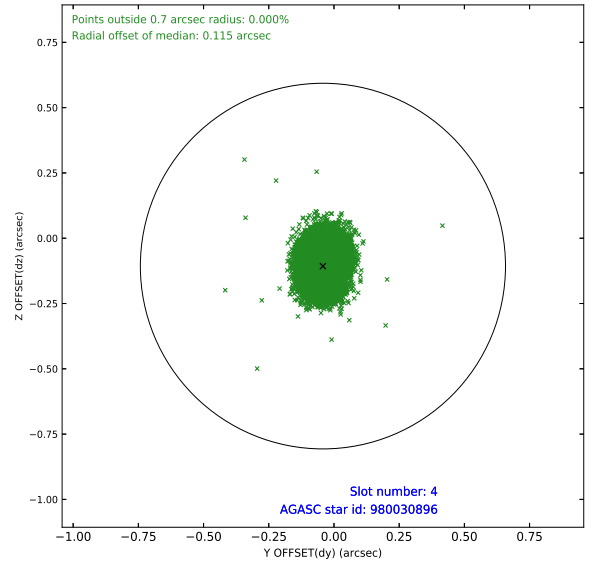
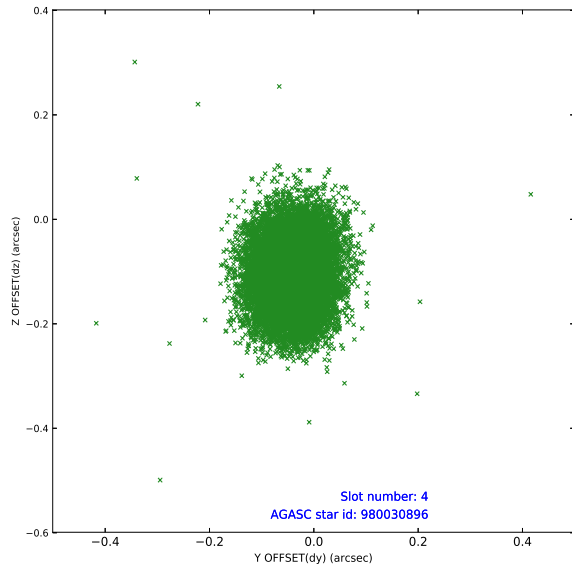
2.4.1 Slot 3



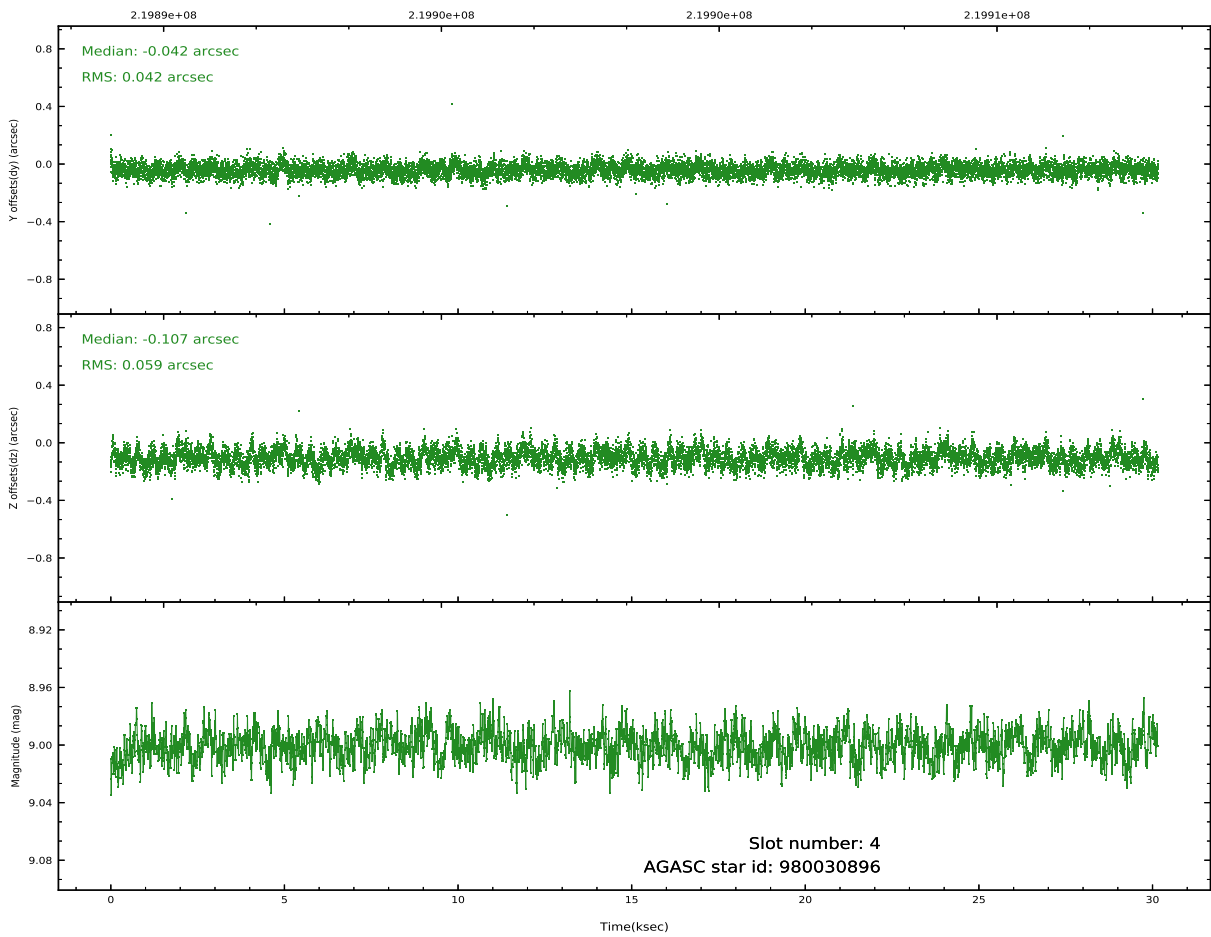
Time (s)



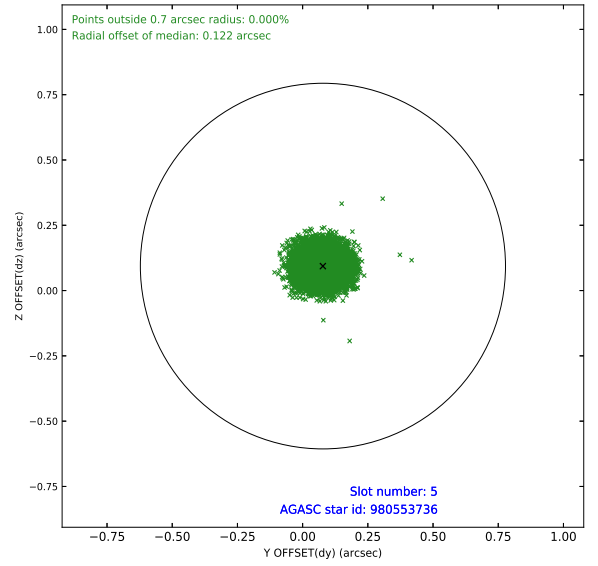
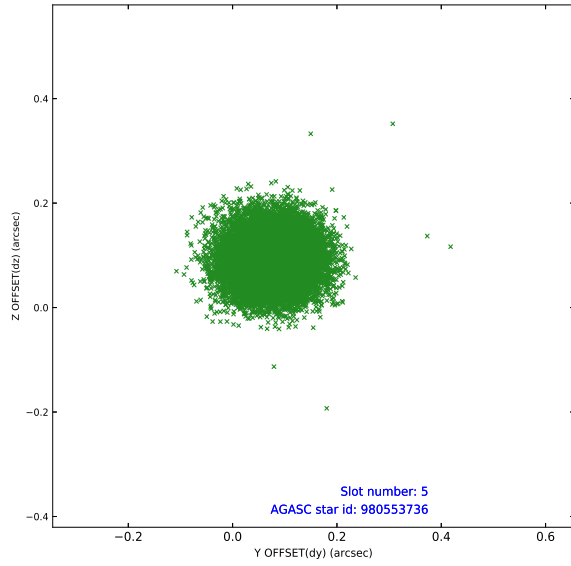
2.4.2 Slot 4



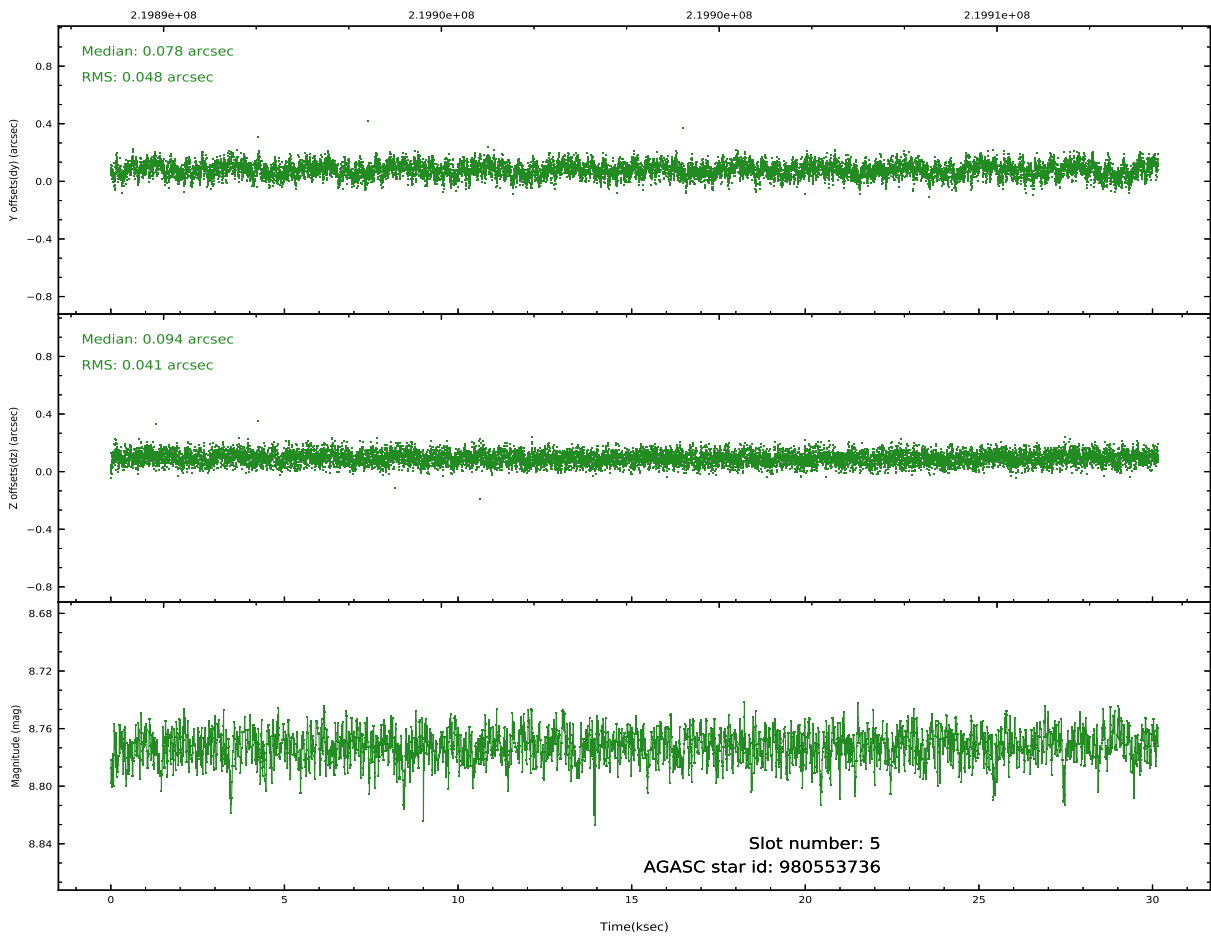
Time (s)



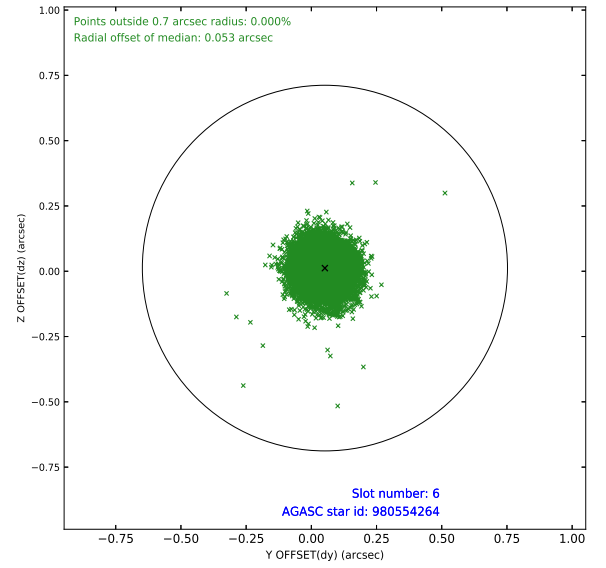
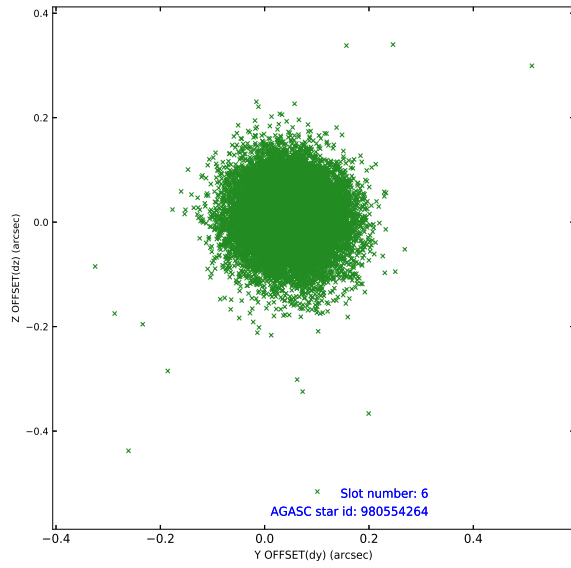
2.4.3 Slot 5



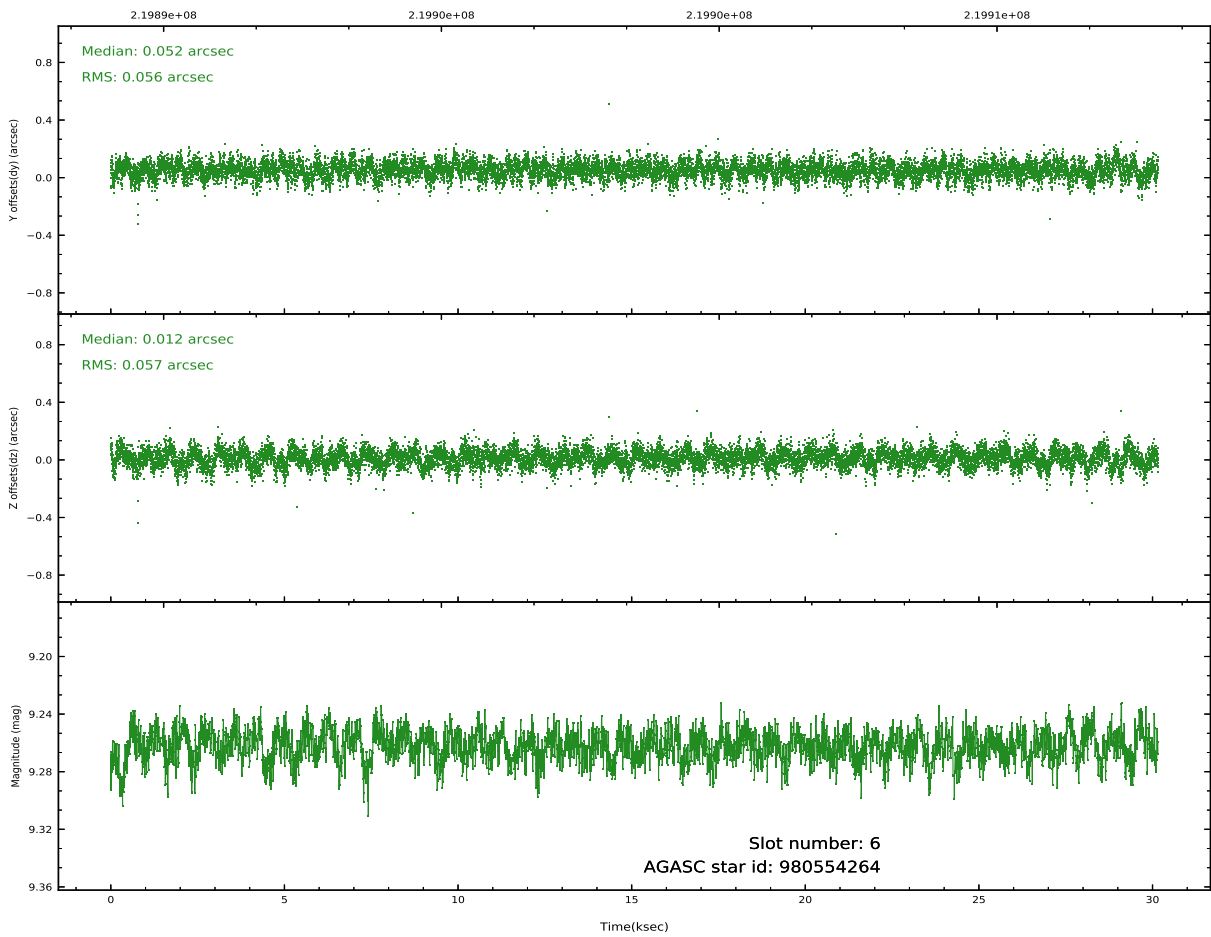
Time (s)



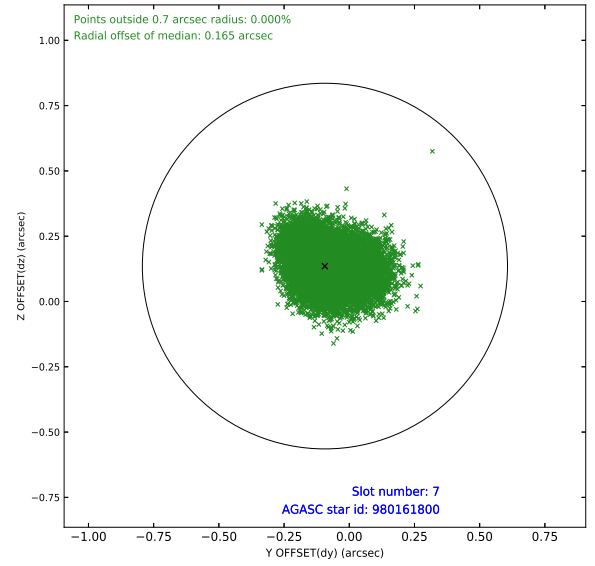
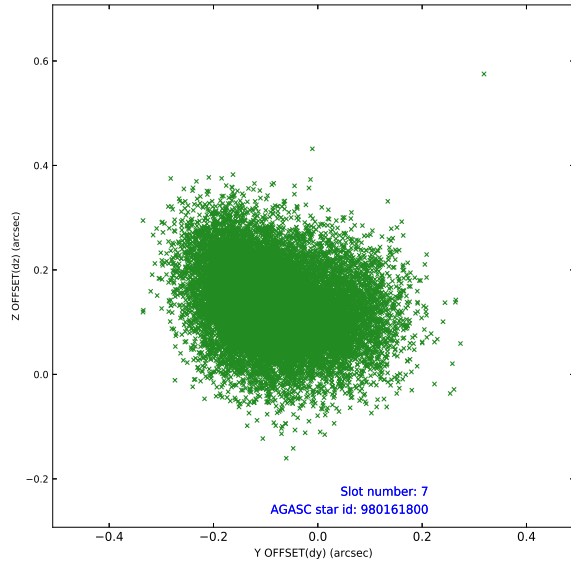
2.4.4 Slot 6



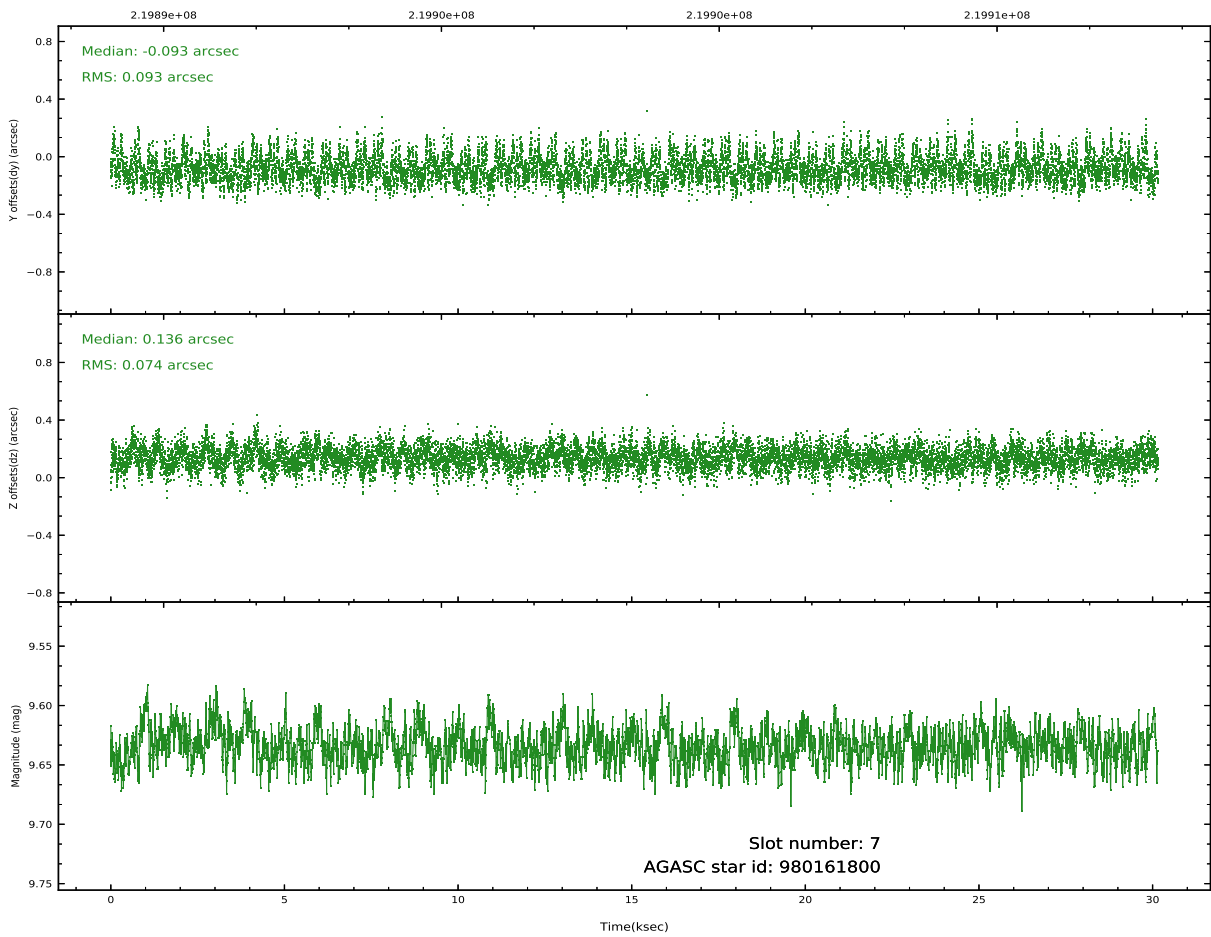
Time (s)



2.4.5 Slot 7

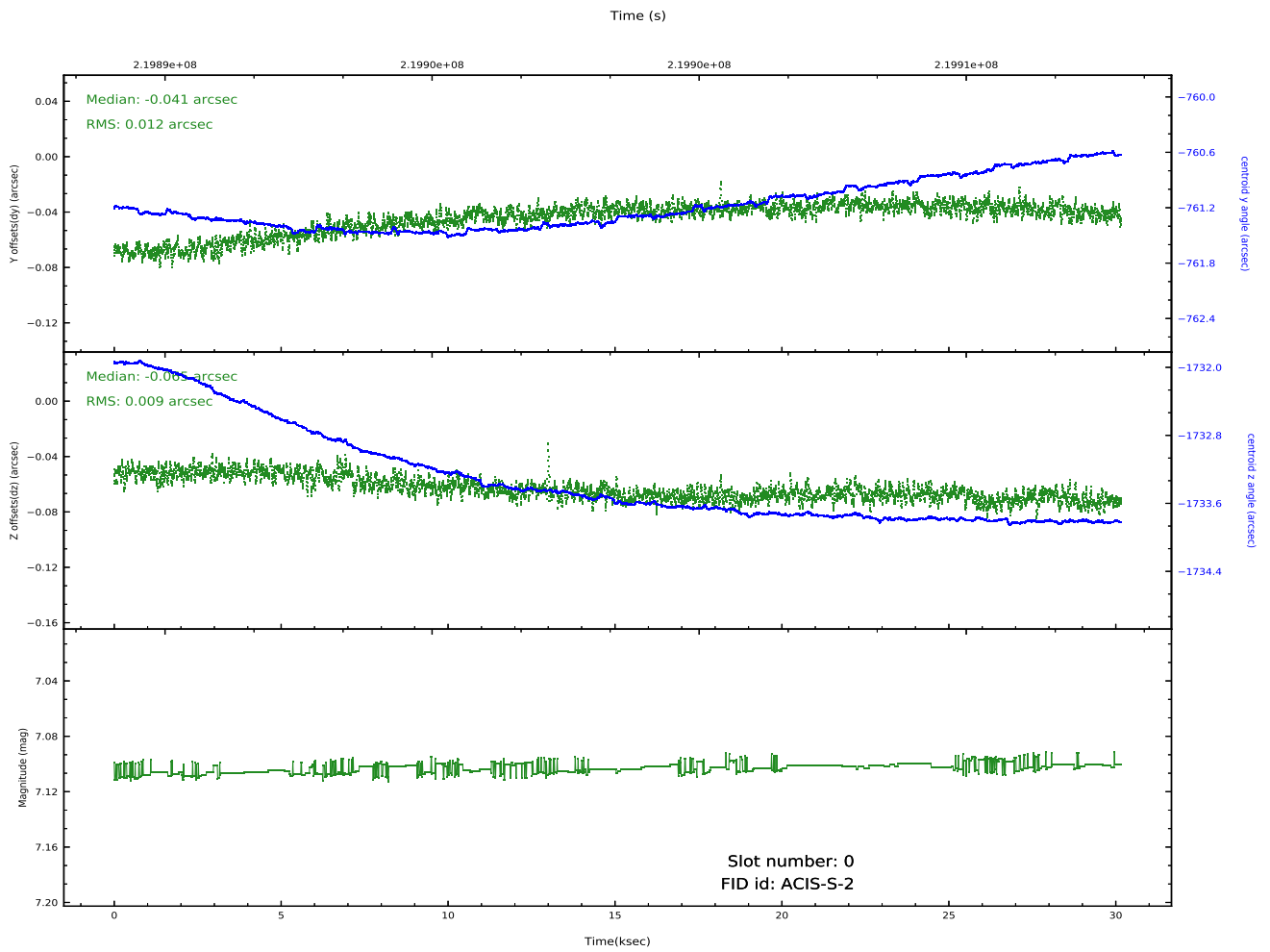
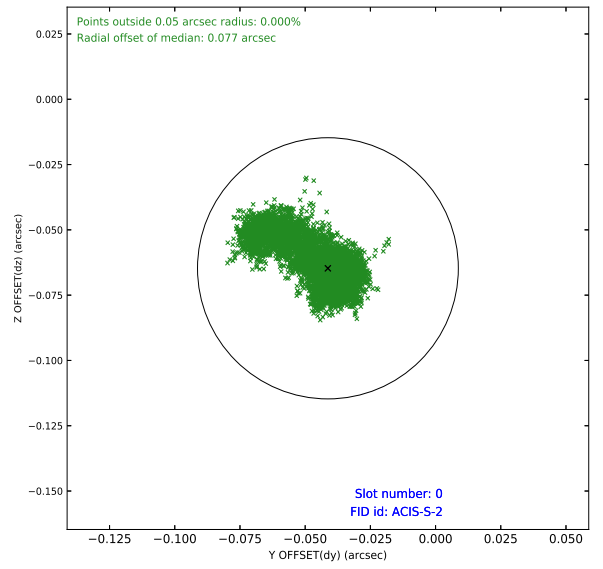
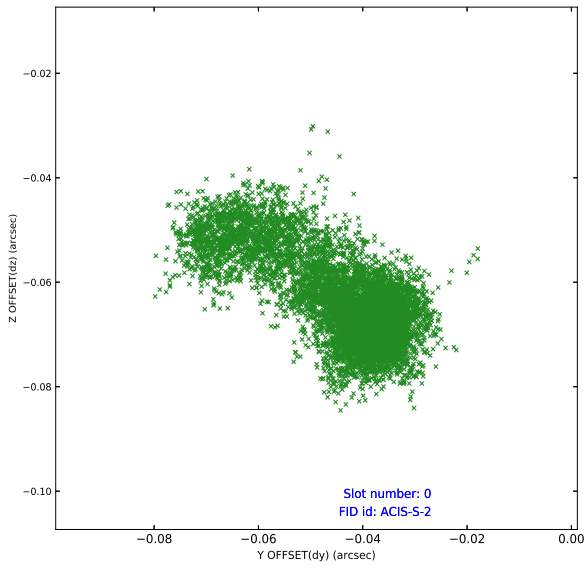


Time (s)

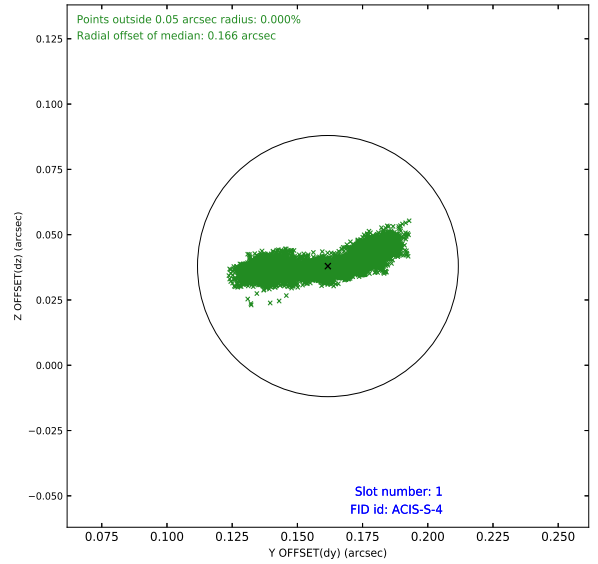
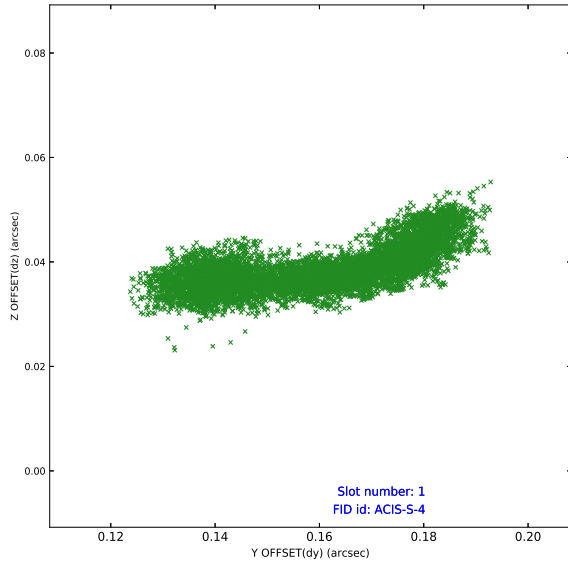


2.5 FID Slots

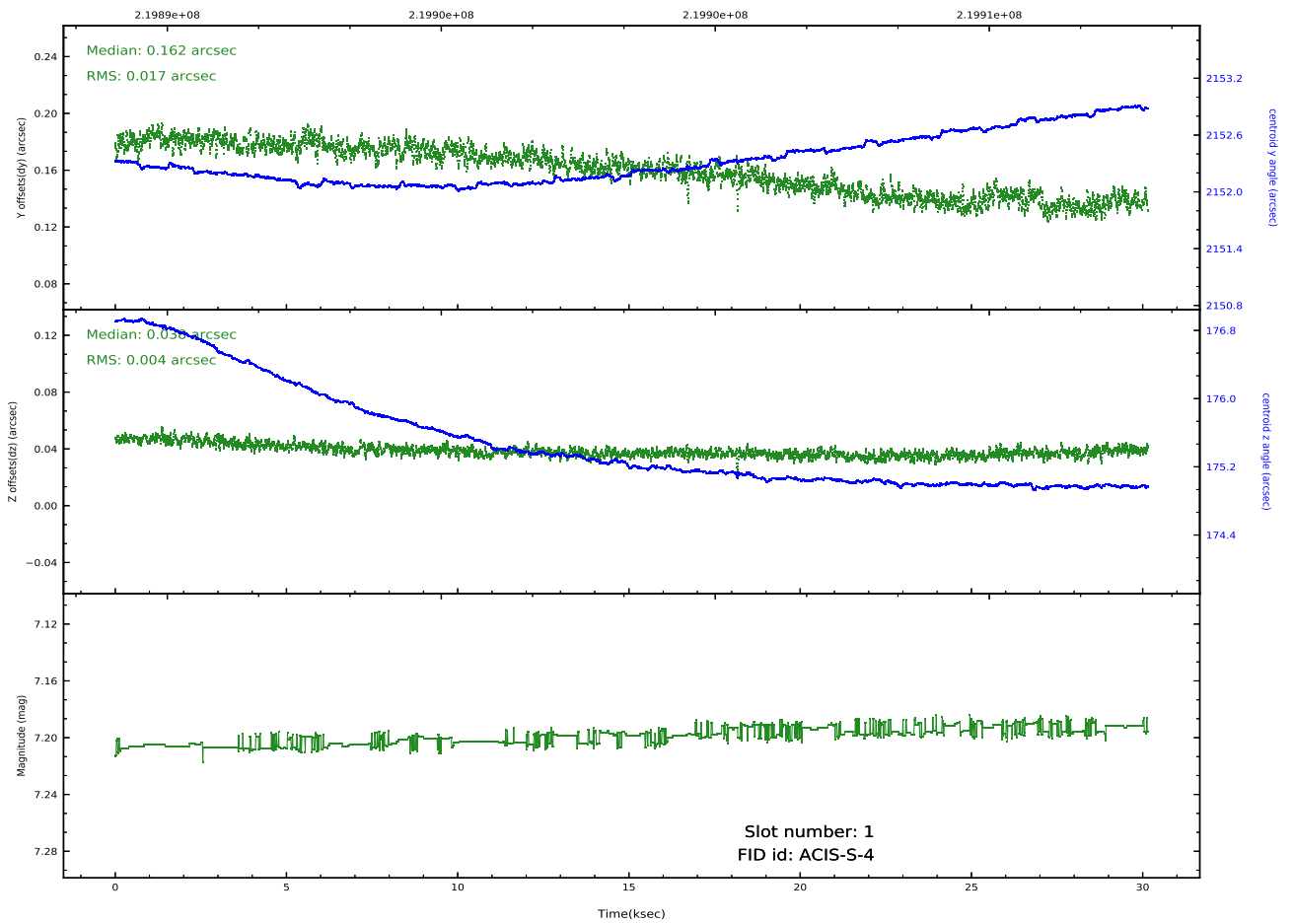
2.5.1 Slot 0



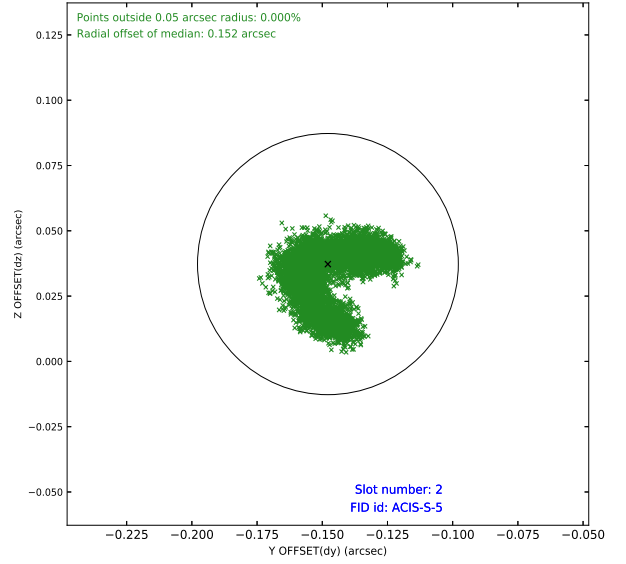
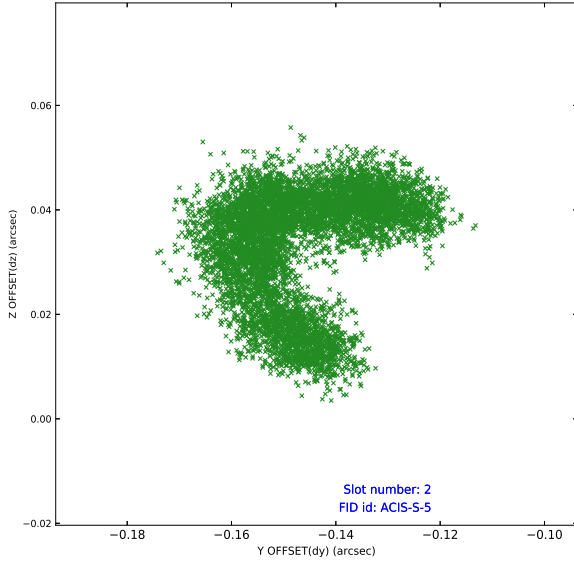
2.5.2 Slot 1



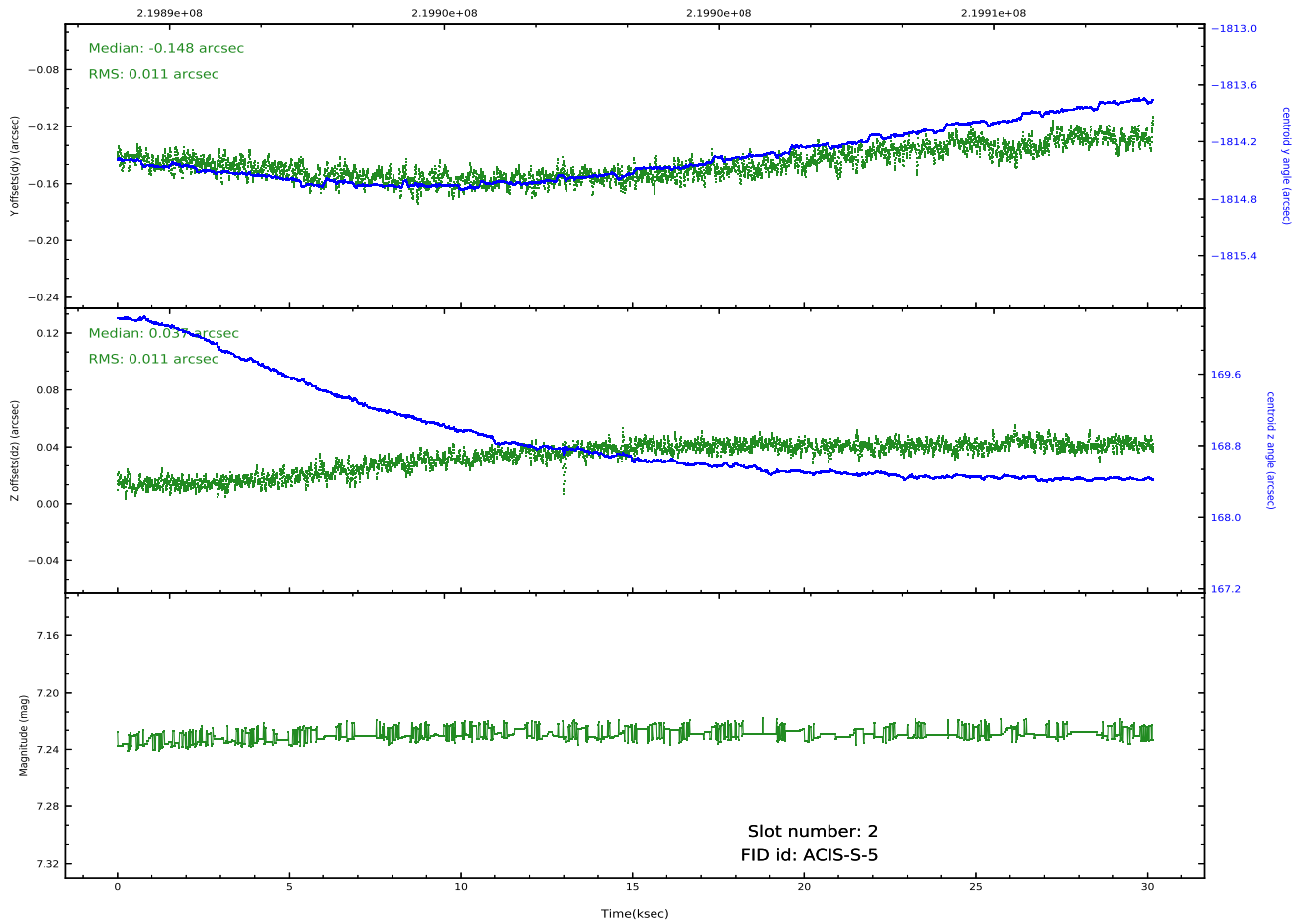
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.15679

A.2 Comments