

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5366 - L2 Version 4
Chandra X-Ray Center

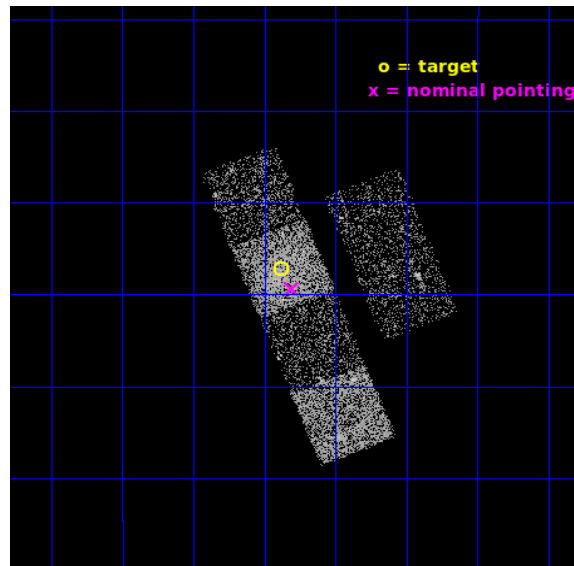
L2 Processing Date : Oct 9 2020

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1 Front

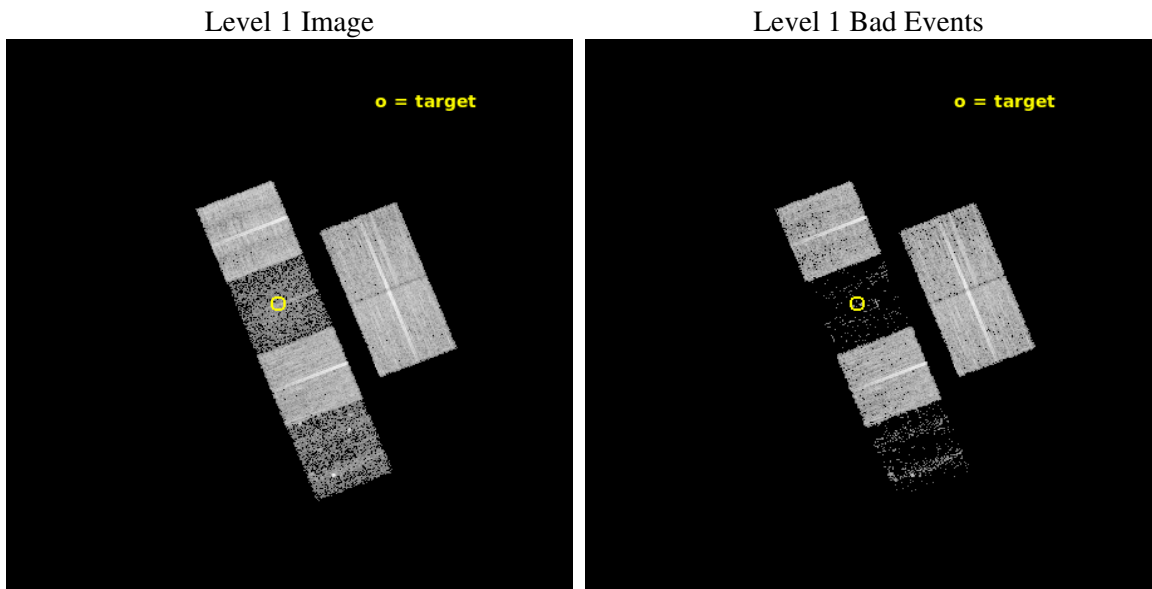
seq_num	100054	Sequence number
obs_id	5366	Observation id
title	Comet 9P/Tempel 1 During the Deep Impact Encounter	Proposal title
observer	Carey Lisse	Principal investigator
object	Comet 9P/Tempel 1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	202.846045	Observer's specified target RA [deg]
dec_targ	-8.11978	Observer's specified target Dec [deg]
ra_nom	202.82647346021	Nominal RA [deg]
dec_nom	-8.156158464284	Nominal Dec [deg]
roll_nom	248.30248467469	Nominal Roll [deg]
revision	4	Processing version of data
ontime	9961.0030465722	Sum of GTIs [s]
liveltime	9834.8708282006	Livetime [s]
ontime2	9961.0440865755	Sum of GTIs [s]
ontime3	9957.6389662027	Sum of GTIs [s]
ontime5	9960.9620065689	Sum of GTIs [s]
ontime6	9960.9209665656	Sum of GTIs [s]
ontime7	9961.0030465722	Sum of GTIs [s]
ontime8	9960.8388865888	Sum of GTIs [s]
l2events	15247	Number of level 2 events



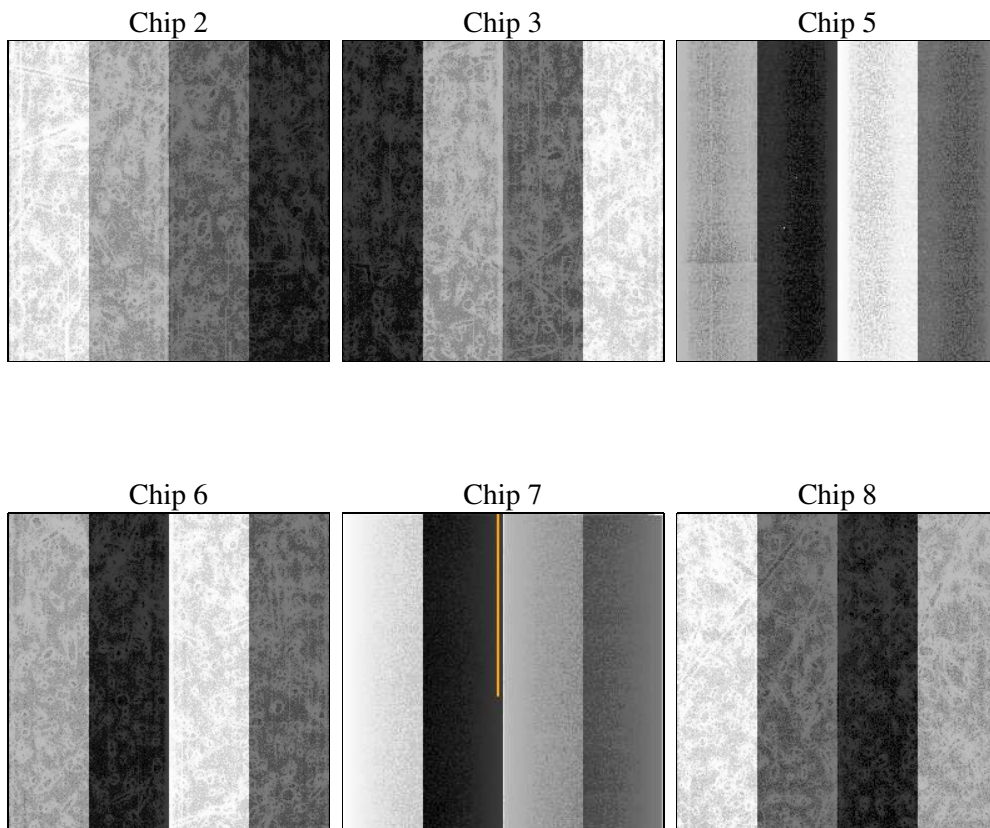
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	9961.0030465722	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	9961.0440865755	Sum of GTIs [s]
date	2020-10-09T05:50:23	Date and time of file creation	ontime3	9957.6389662027	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	9960.9620065689	Sum of GTIs [s]
			ontime6	9960.9209665656	Sum of GTIs [s]
			ontime7	9961.0030465722	Sum of GTIs [s]
			ontime8	9960.8388865888	Sum of GTIs [s]
			l1events	205118	Number of level 1 events

2.1.4 Events

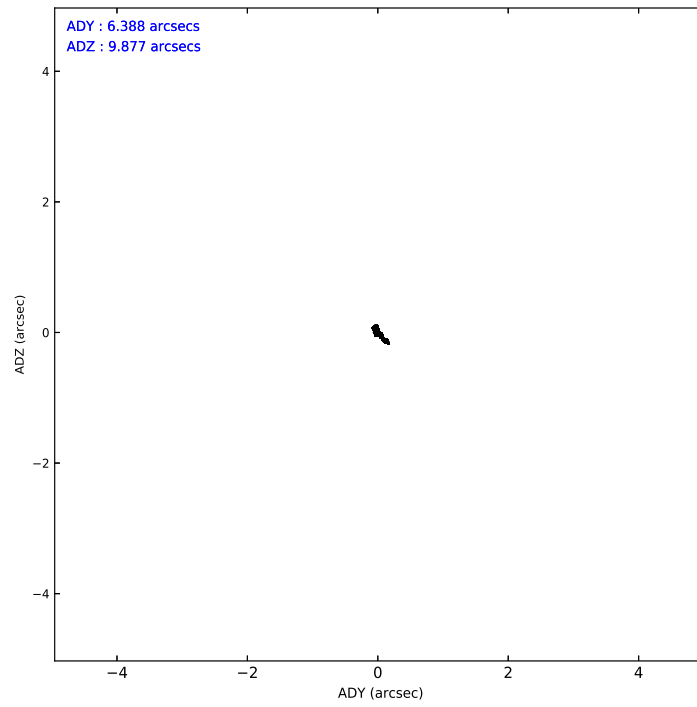
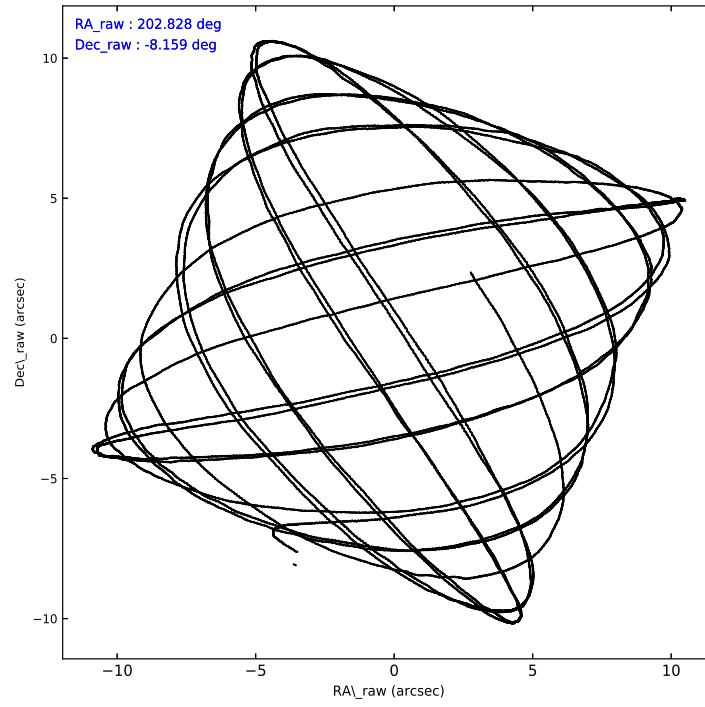
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	51719	42943	8419	43803	7486	50748
rejected events	49552	41553	2564	41820	1377	38702
rejected %	95%	96%	30%	95%	18%	76%

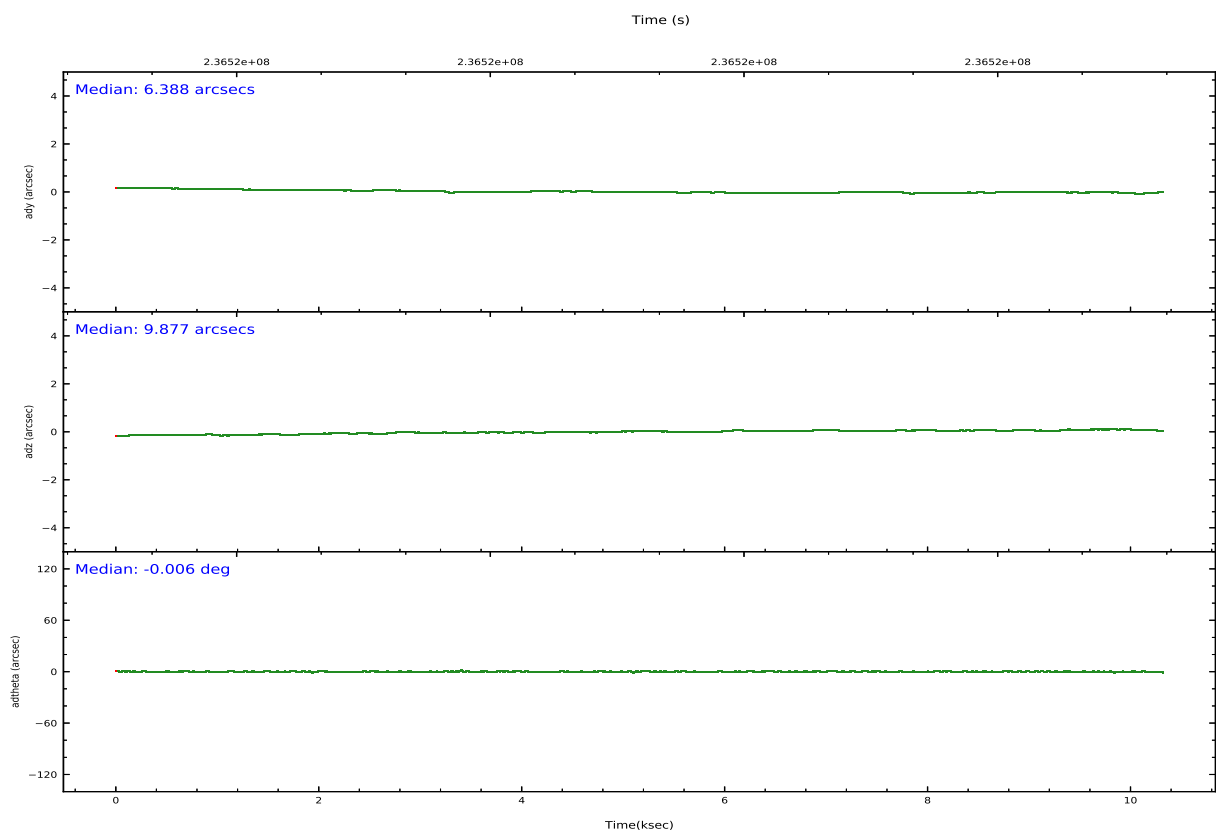
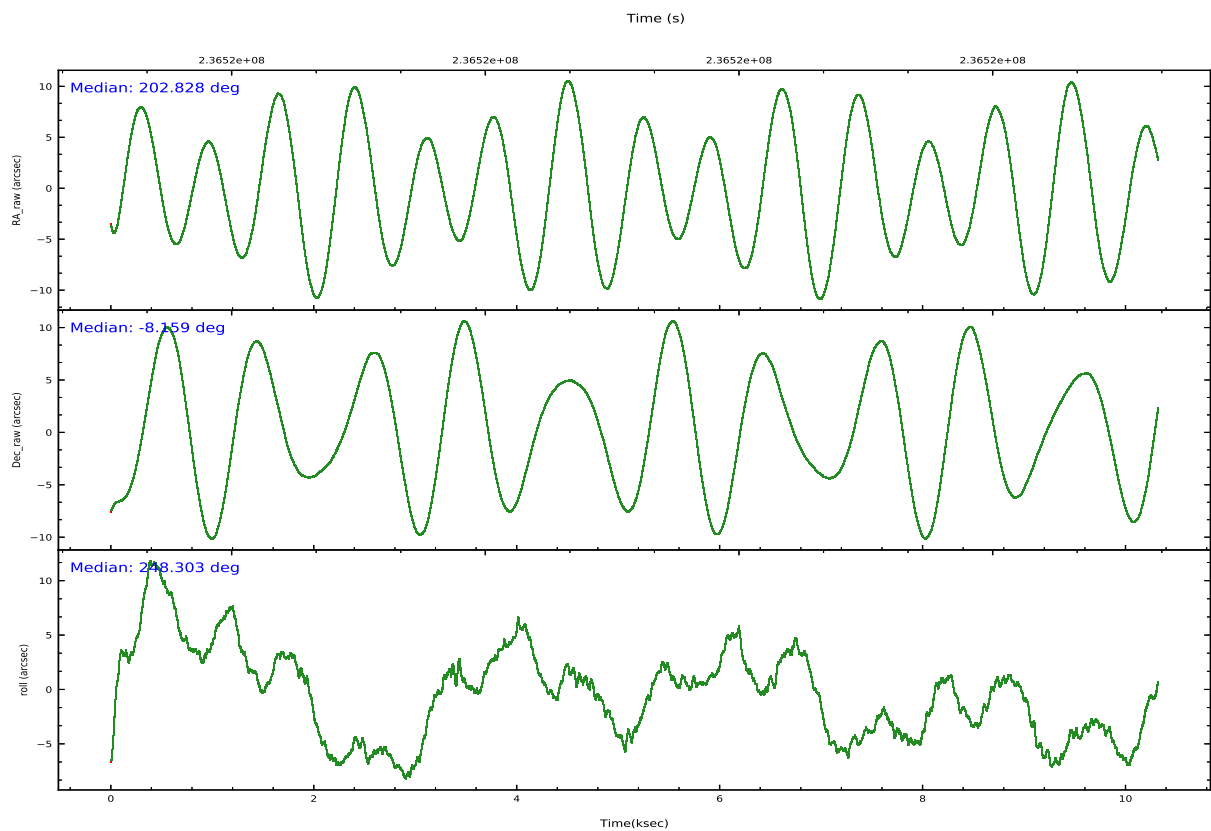
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	946	649	2022	921	2075	3442
	1%	1%	24%	2%	27%	6%
grade 1 events	22	15	203	11	25	29
	0%	0%	2%	0%	0%	0%
grade 2 events	497	183	1866	371	1828	2833
	0%	0%	22%	0%	24%	5%
grade 3 events	251	241	733	282	870	1405
	0%	0%	8%	0%	11%	2%
grade 4 events	304	214	673	308	808	1306
	0%	0%	7%	0%	10%	2%
grade 5 events	60	37	428	41	153	258
	0%	0%	5%	0%	2%	0%
grade 6 events	197	129	624	127	642	3240
	0%	0%	7%	0%	8%	6%
grade 7 events	49442	41475	1870	41742	1085	38235
	95%	96%	22%	95%	14%	75%

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	202.824060	202.82647346021	Subarray requested	NONE	NONE
[deg] Pointing Dec	-8.132058	-8.156158464283999	Alternating exposures requested	N	N
[deg] Pointing Roll	248.142878	248.30248467469	[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)	236516630.184000	236515602.25728			
Observation start date	2005-06-30T11:02:46	2005-06-30T10:46:42			
[s] Observation end time (MET)	236526630.184000	236526764.50779			
Observation end date	2005-06-30T13:49:26	2005-06-30T13:52:44			
Read mode	TIMED	TIMED			

2.3 Aspect



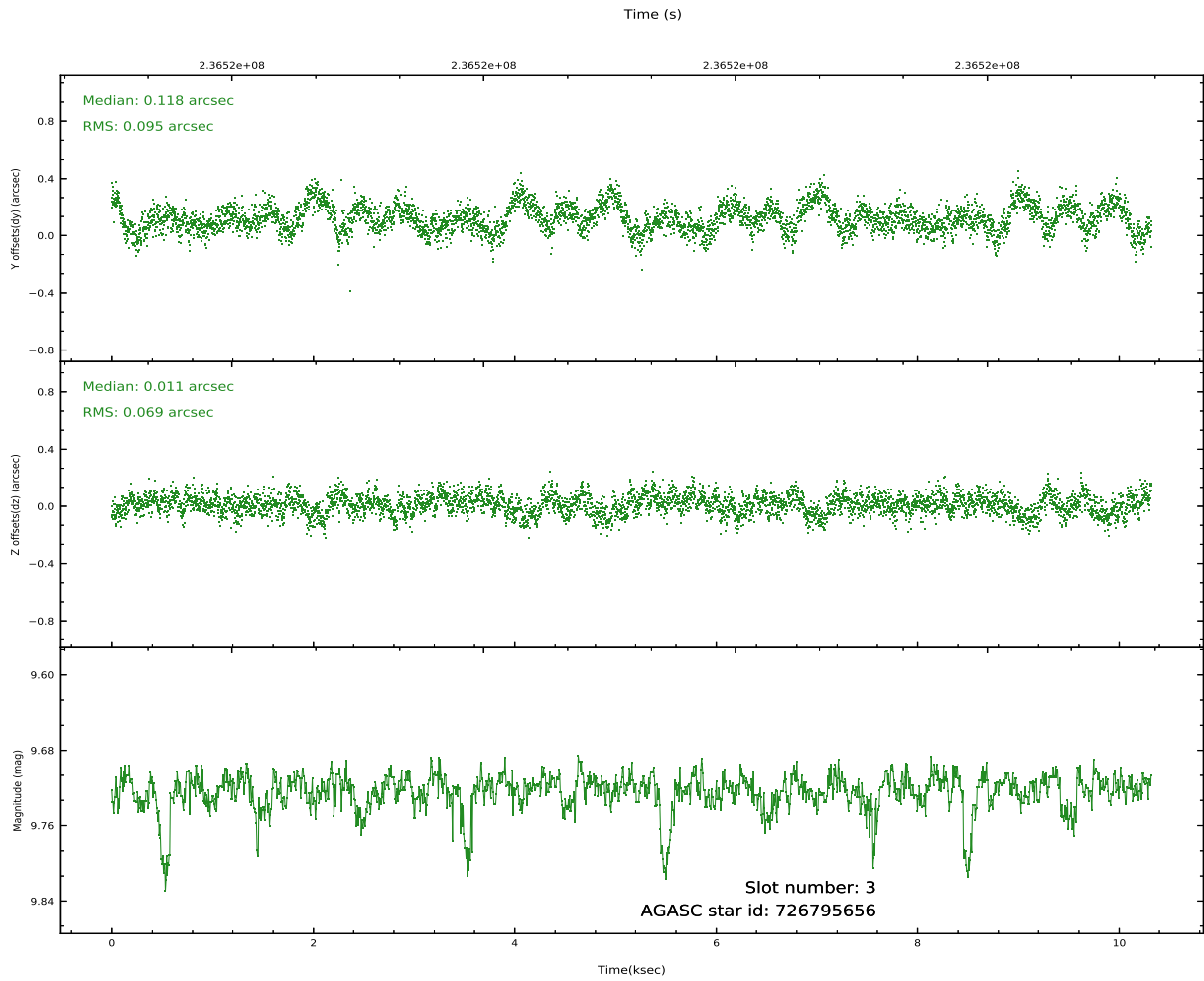
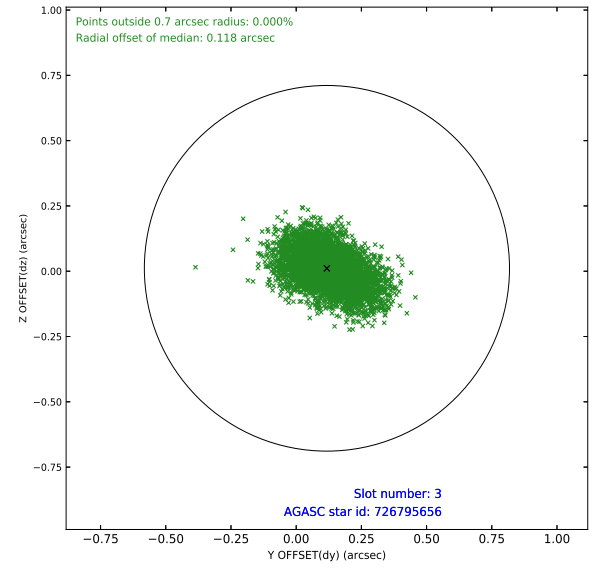
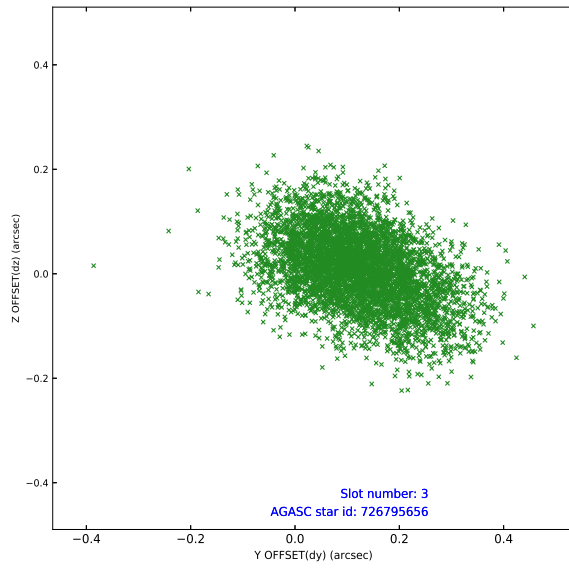


Slot Statistics

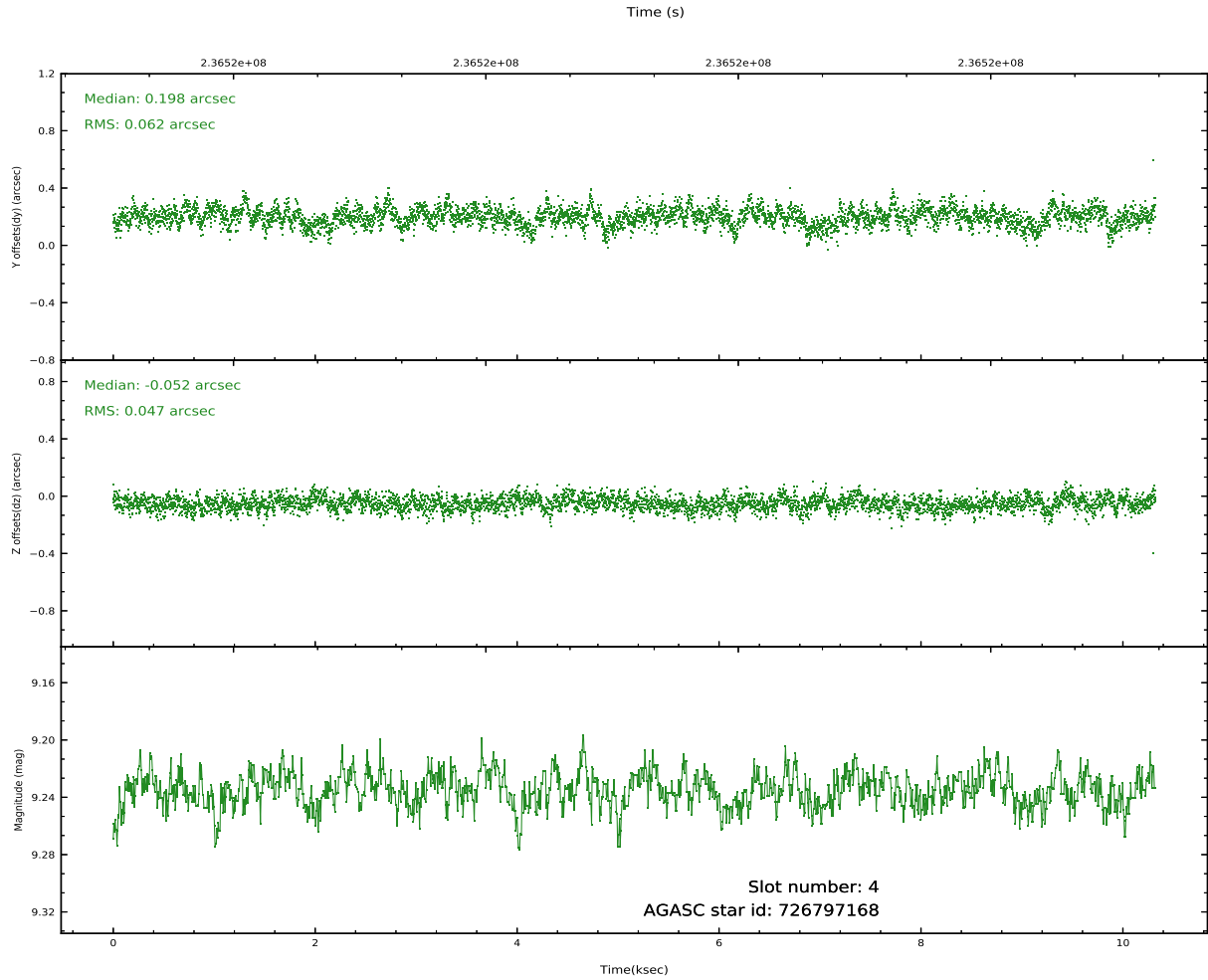
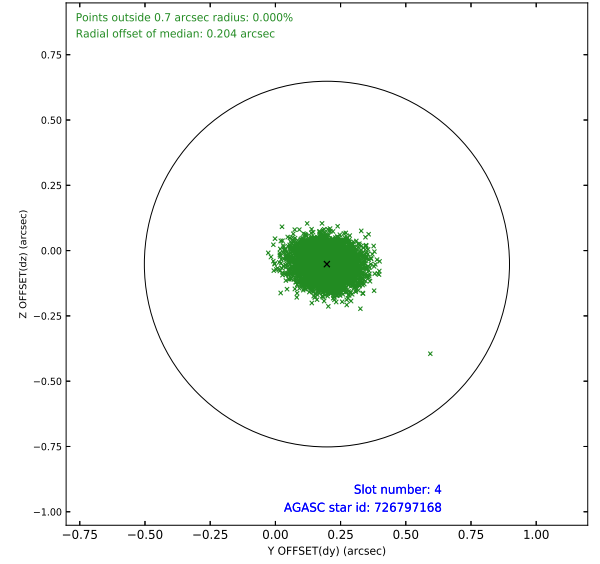
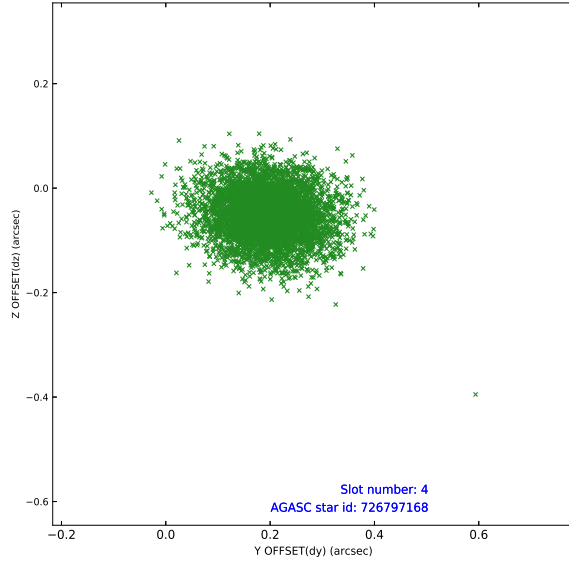
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	2518	1.000	-0.100	-0.072	0.007	0.012	0.000000	0.000000	-759.18	-1731
1	FID		ACIS-S-4	7.21	2518	1.000	0.171	0.068	0.005	0.010	0.000000	0.000000	2154.07	176
2	FID		ACIS-S-5	7.23	2518	1.000	-0.102	0.013	0.007	0.012	0.000000	0.000000	-1811.43	171
3	GUIDE	used	726795656	9.72	5030	1.000	0.118	0.011	0.124	0.208	202.576235	-8.591995	1865.87	-202
4	GUIDE	used	726797168	9.23	5034	1.000	0.198	-0.052	0.082	0.138	202.692279	-8.774007	2320.31	425
5	GUIDE	used	726800704	9.03	5033	1.000	-0.333	-0.031	0.076	0.122	202.986094	-7.587280	-2034.86	-193
6	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
7	GUIDE	used	726800992	9.58	5030	1.000	0.013	0.073	0.107	0.173	202.715522	-8.788144	2335.80	521

2.4 Star Slots

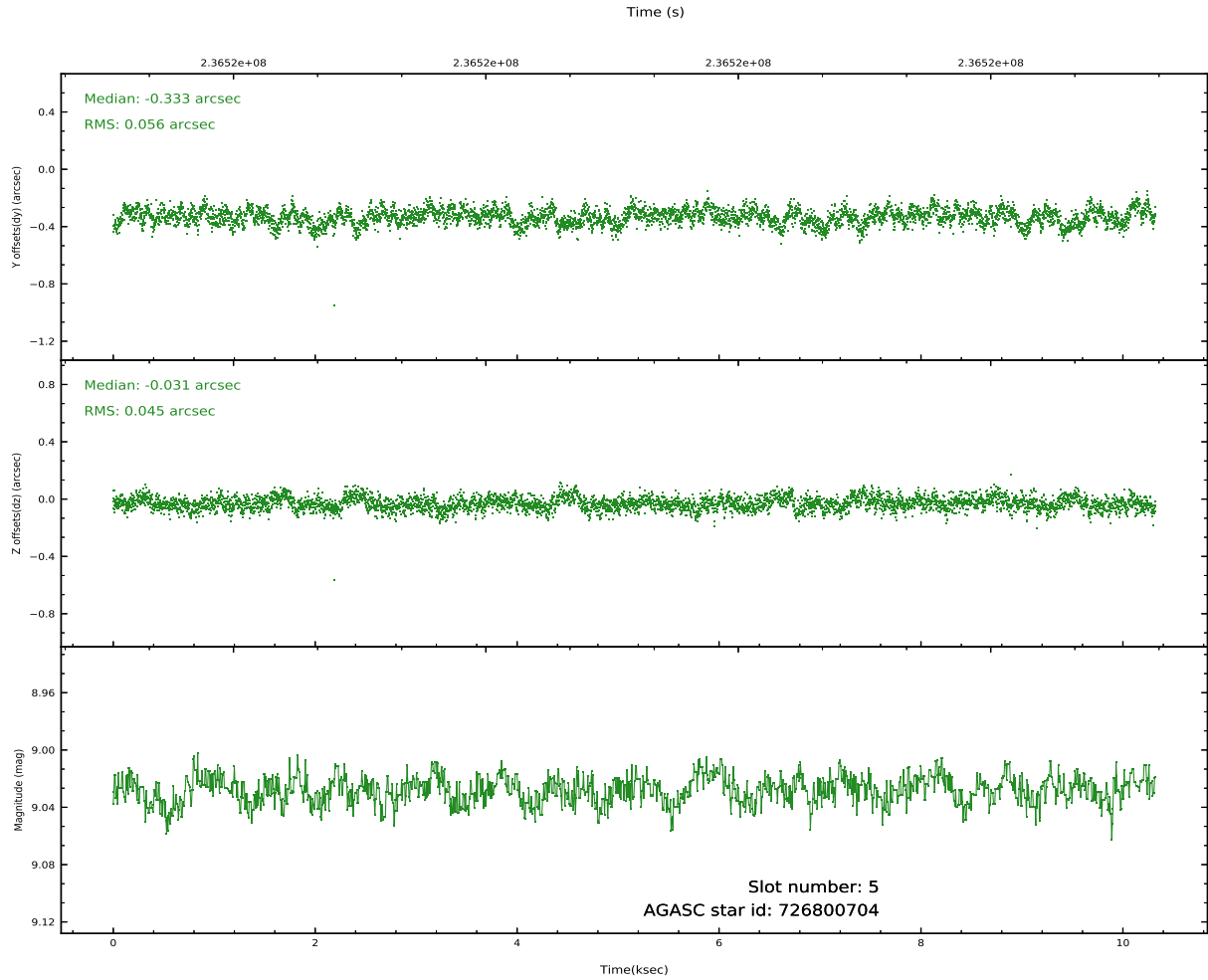
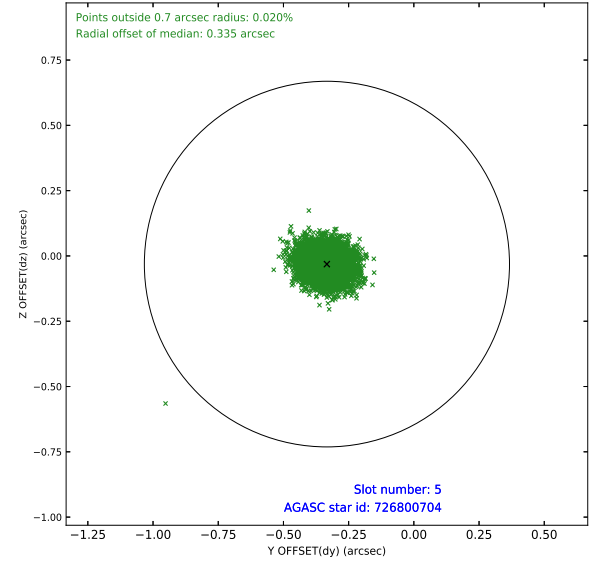
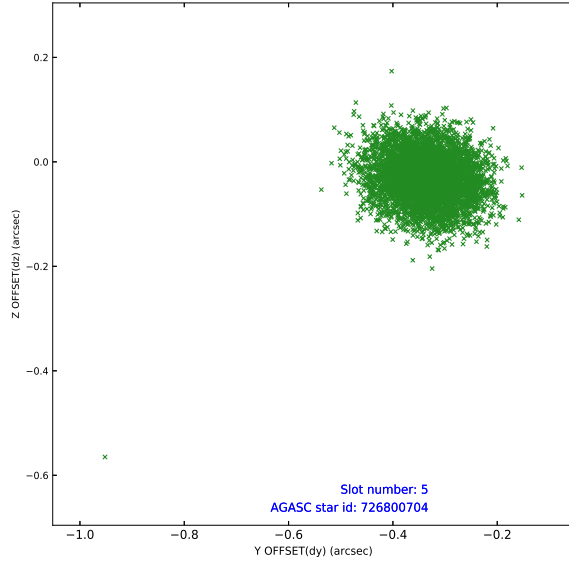
2.4.1 Slot 3



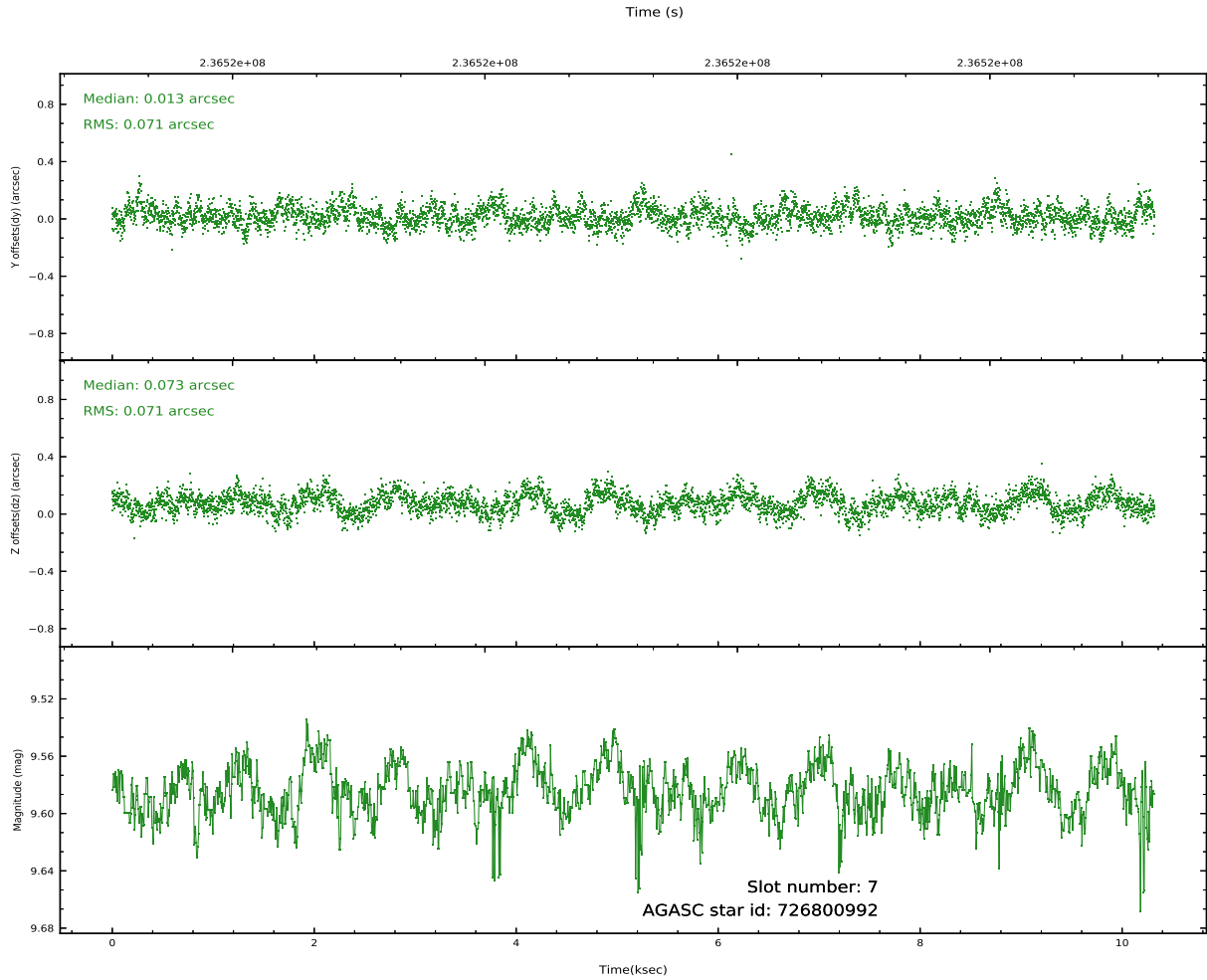
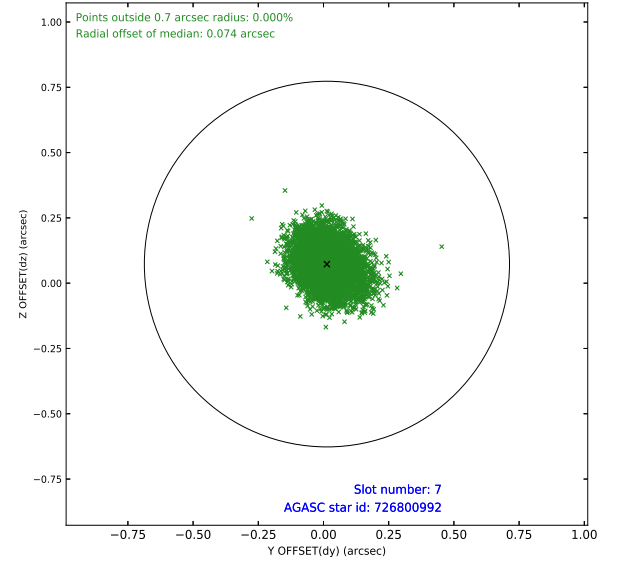
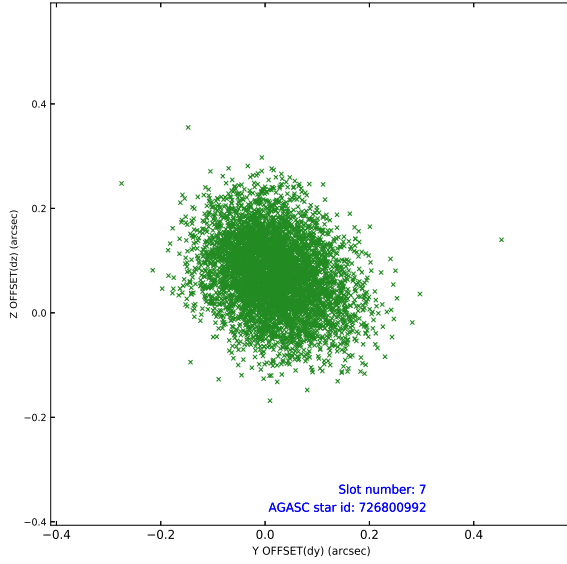
2.4.2 Slot 4



2.4.3 Slot 5

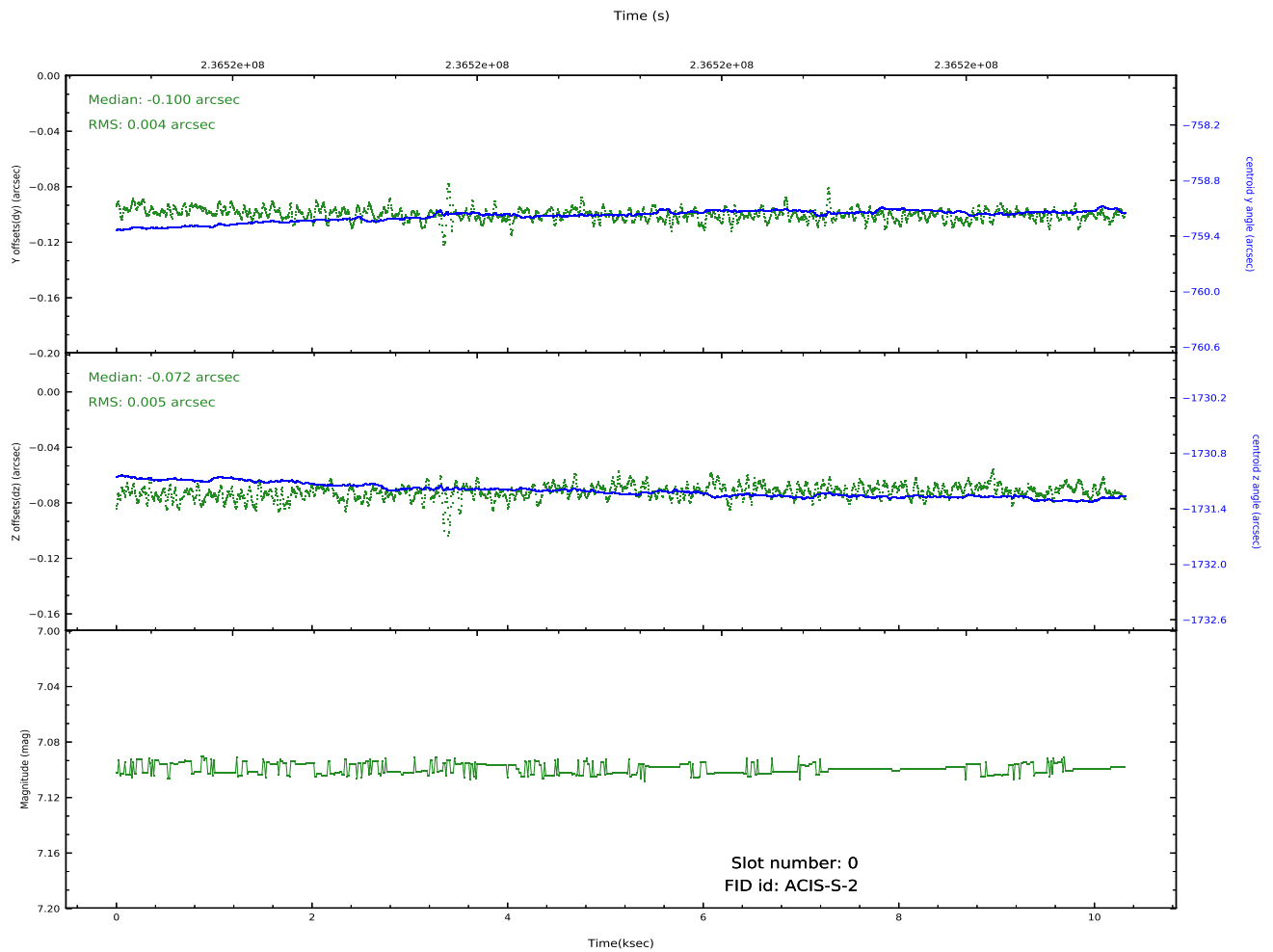
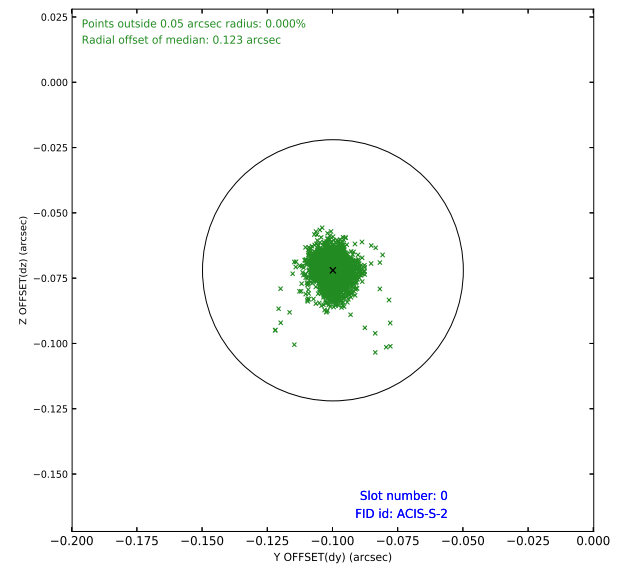
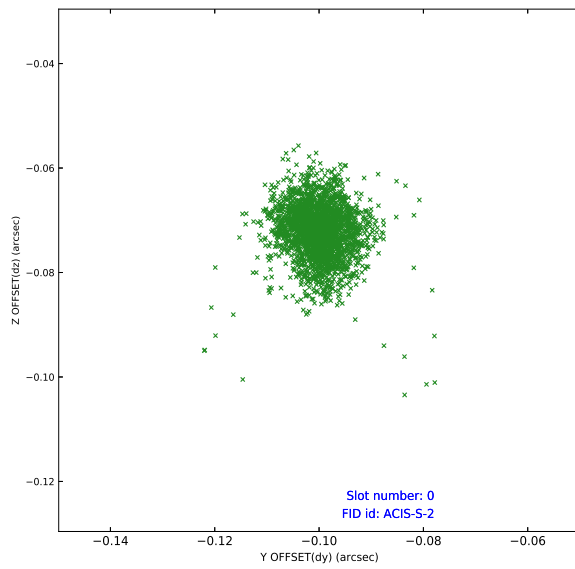


2.4.4 Slot 7

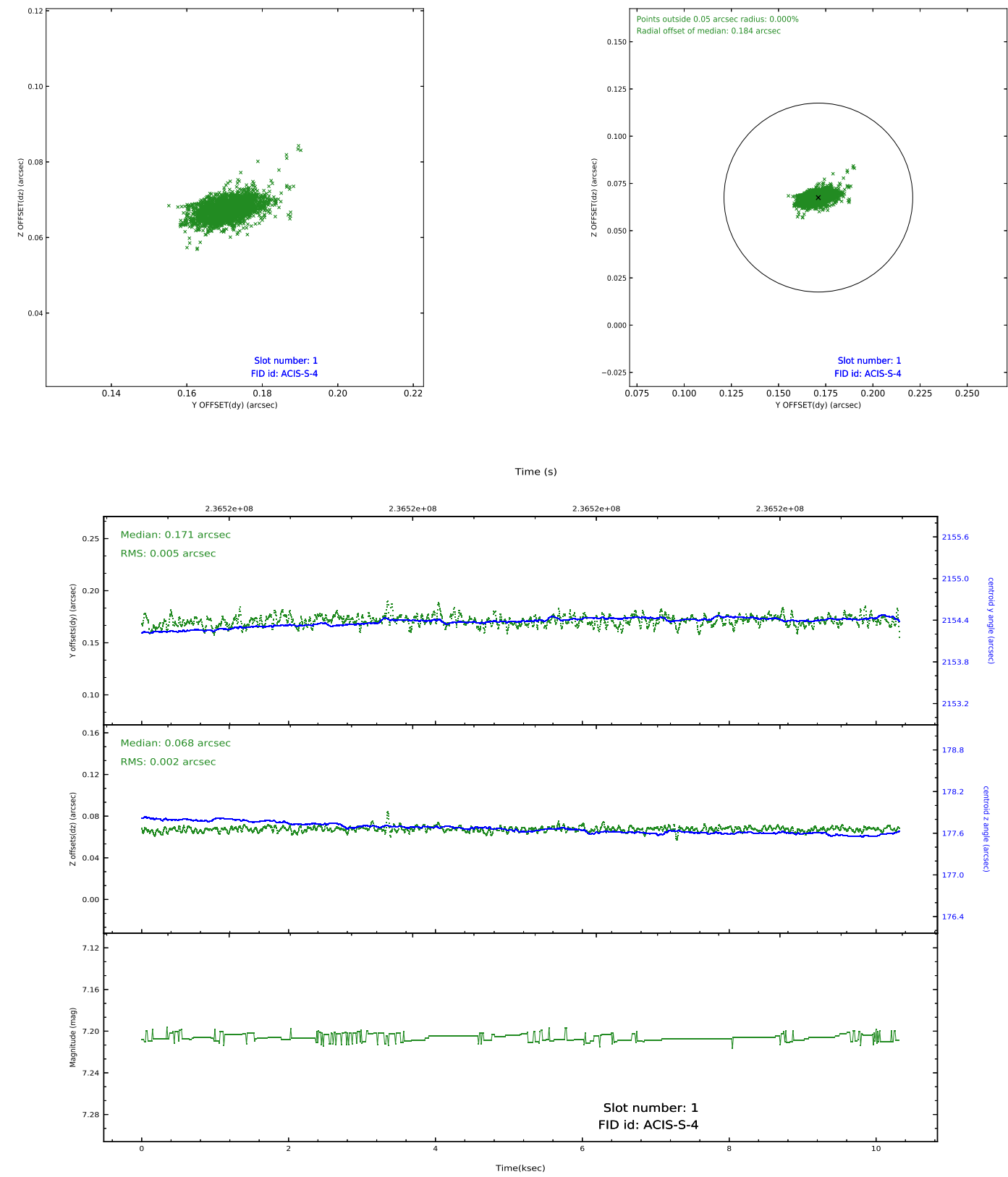


2.5 FID Slots

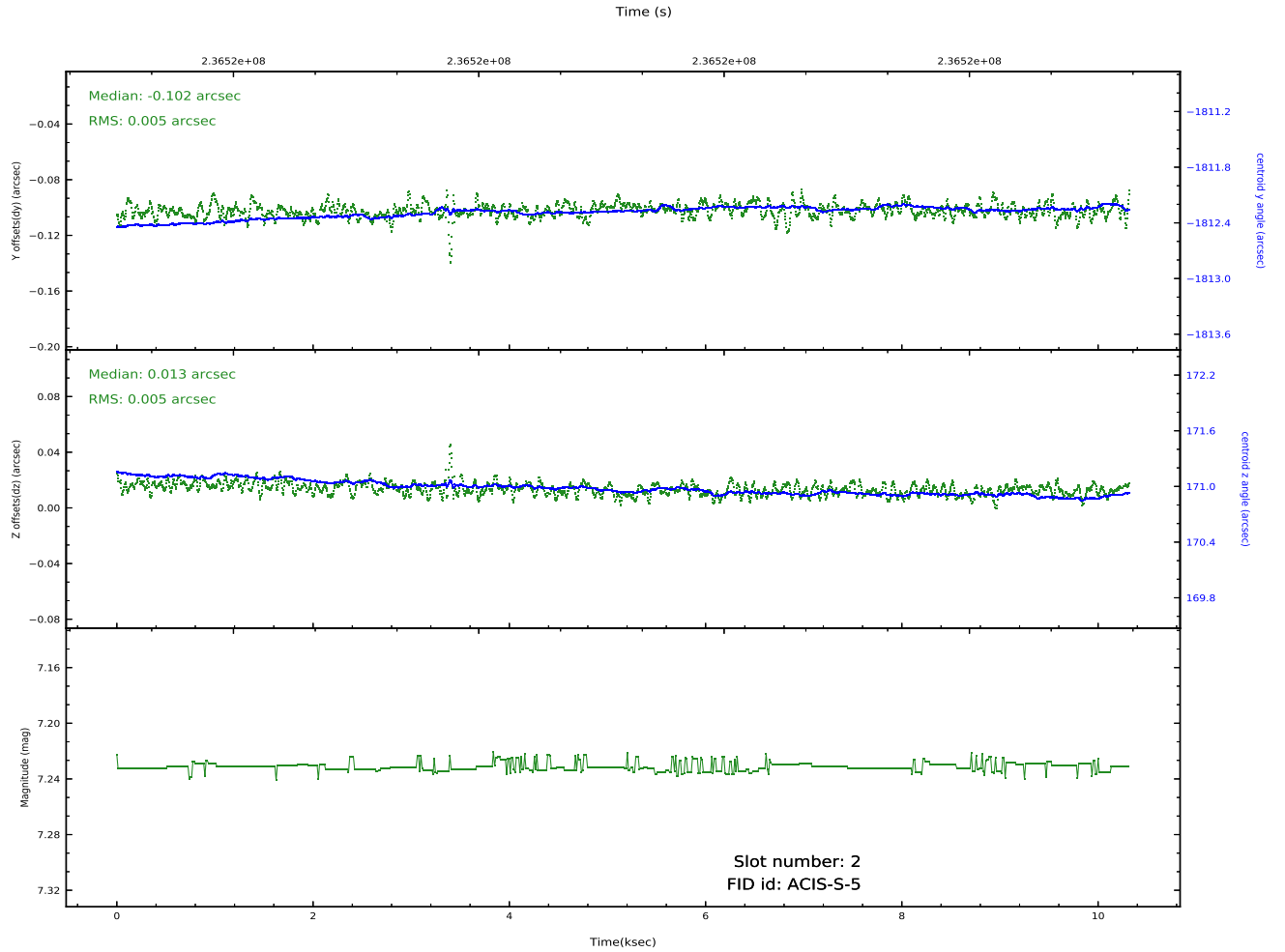
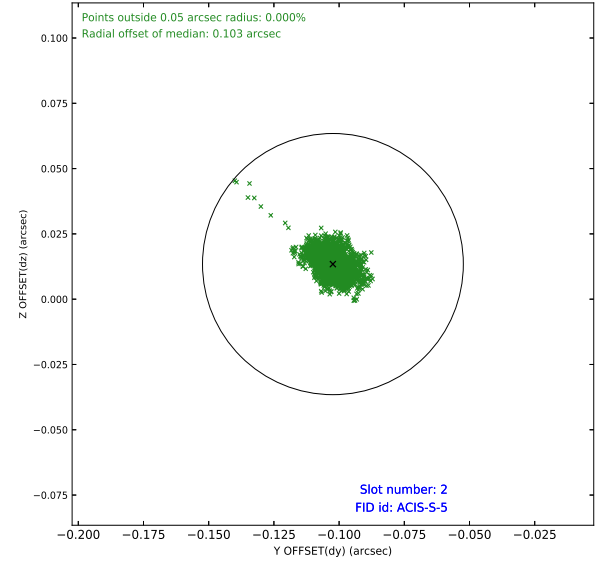
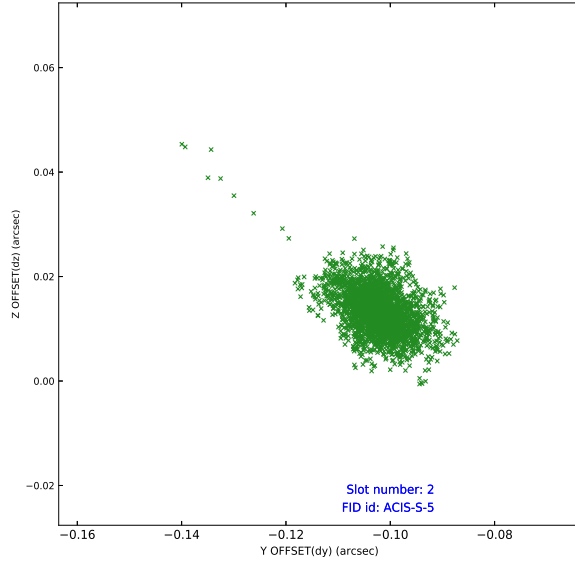
2.5.1 Slot 0



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)	2020.10.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.961599

A.2 Comments

This is a moving target. Users will need to run sso_freeze or similar software to position the events in the reference frame of the target.

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The guide star in slot 6 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.