

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20590 - L2 Version 2
Chandra X-Ray Center

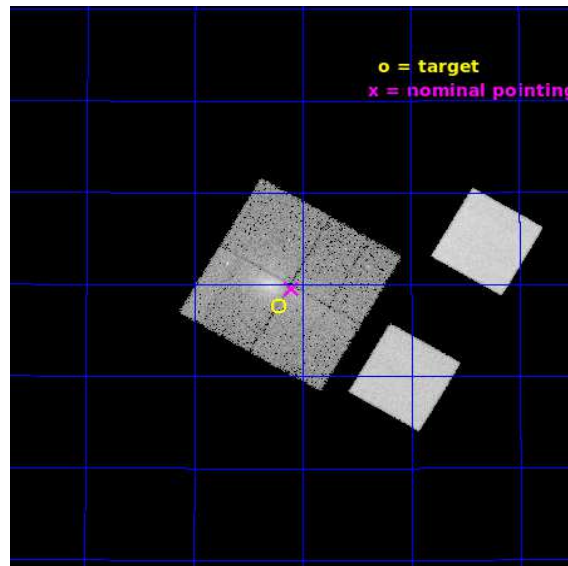
L2 Processing Date : Oct 29 2020

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1 Front

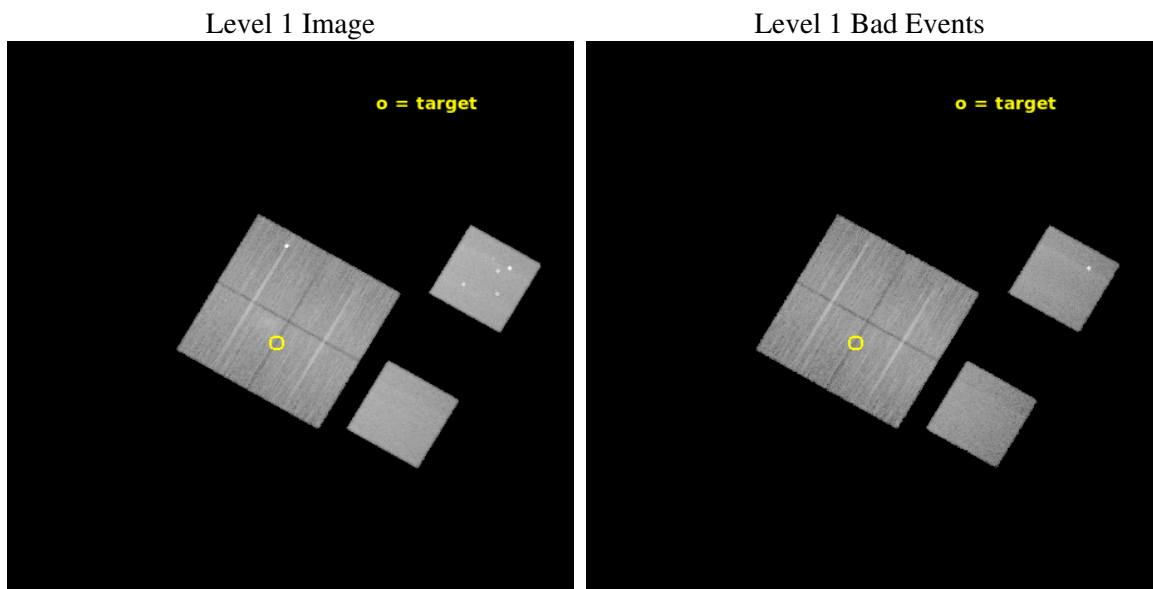
seq_num	801786	Sequence number
obs_id	20590	Observation id
title	Abell 1763: A Giant Gas Sloshing Spiral But No Cool Core	Proposal
observer	Edmund Douglass	Principal investigator
object	Abell 1763	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	203.804167	Observer's specified target RA [deg]
dec_targ	40.96	Observer's specified target Dec [deg]
ra_nom	203.77518954288	Nominal RA [deg]
dec_nom	40.99270368476	Nominal Dec [deg]
roll_nom	120.22786300083	Nominal Roll [deg]
revision	2	Processing version of data
ontime	19947.474471807	Sum of GTIs [s]
livetime	19694.887539118	Livetime [s]
ontime0	19947.597591758	Sum of GTIs [s]
ontime1	19947.392391801	Sum of GTIs [s]
ontime2	19944.192381501	Sum of GTIs [s]
ontime3	19947.474471807	Sum of GTIs [s]
ontime5	19947.515511751	Sum of GTIs [s]
ontime7	19947.556551814	Sum of GTIs [s]
l2events	261650	Number of level 2 events



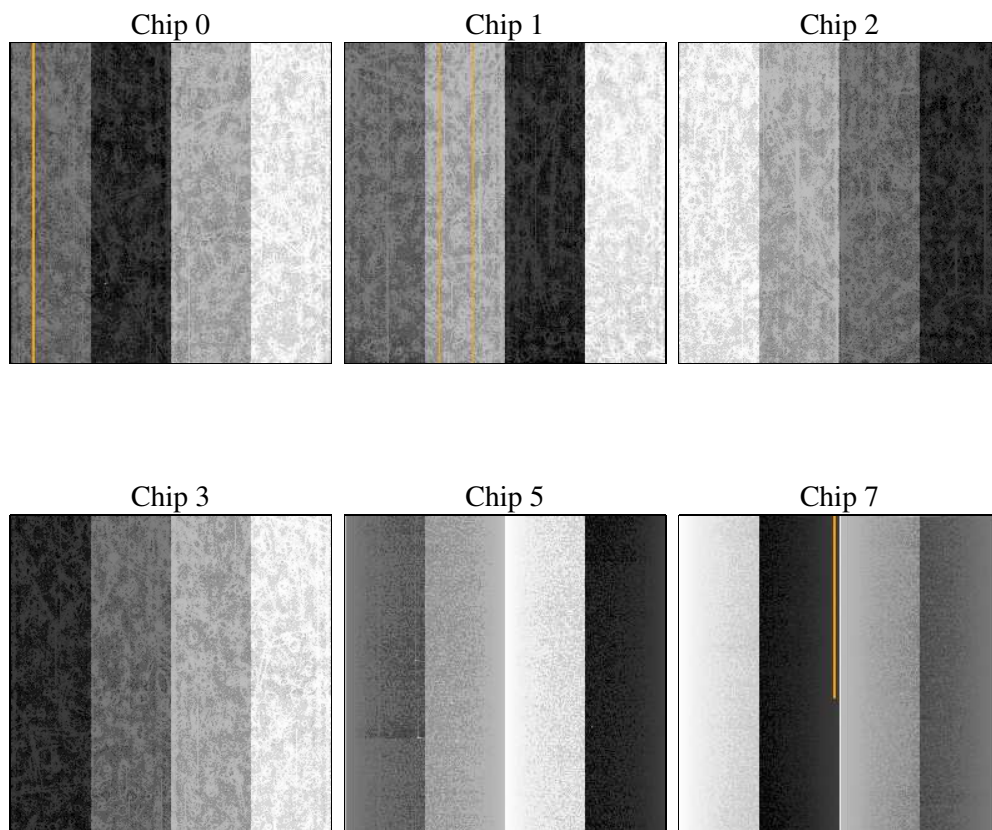
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	19947.474471807	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	19947.597591758	Sum of GTIs [s]
date	2020-10-29T22:02:57	Date and time of file creation	ontime1	19947.392391801	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	19944.192381501	Sum of GTIs [s]
			ontime3	19947.474471807	Sum of GTIs [s]
			ontime5	19947.515511751	Sum of GTIs [s]
			ontime7	19947.556551814	Sum of GTIs [s]
			l1events	1057725	Number of level 1 events

2.1.4 Events

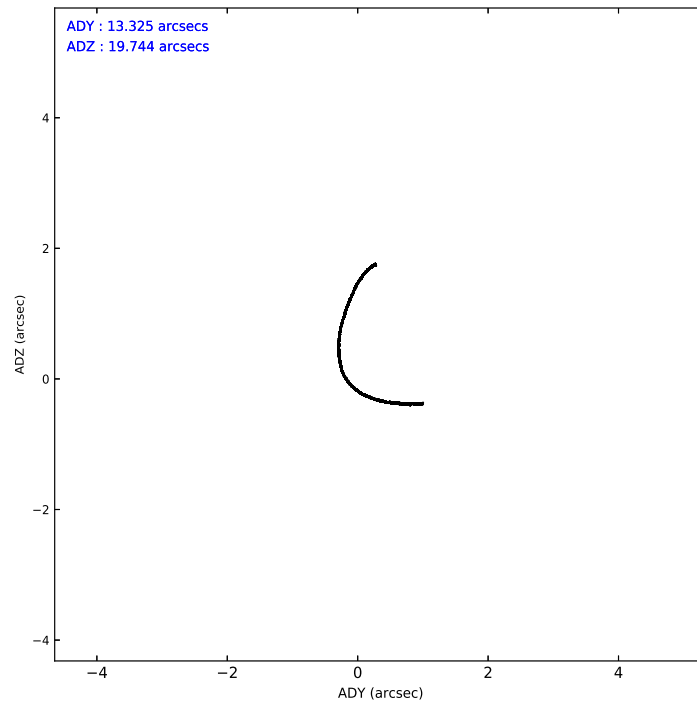
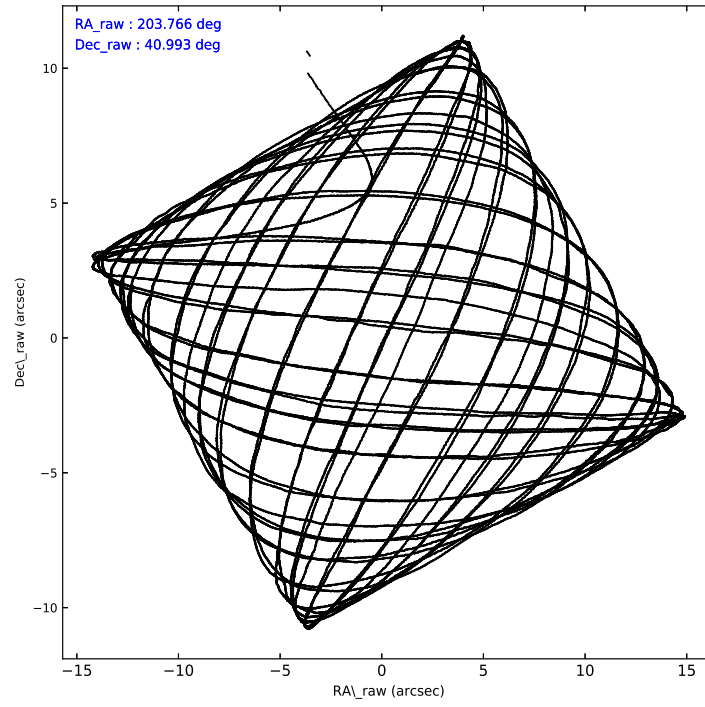
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	153793	151285	154805	148480	252290	197072	grade 0 events	7142	13145	6427	6901	12494	7106
rejected events	127500	123692	137733	131063	129920	111985		4%	8%	4%	4%	4%	3%
rejected %	82%	81%	88%	88%	51%	56%	grade 1 events	83	103	71	89	620	326
								0%	0%	0%	0%	0%	0%
							grade 2 events	12070	5943	4119	3675	38849	18216
								7%	3%	2%	2%	15%	9%
							grade 3 events	1797	2039	1636	1712	3409	6443
								1%	1%	1%	1%	1%	3%
							grade 4 events	1681	1947	1701	1729	3322	6464
								1%	1%	1%	1%	1%	3%
							grade 5 events	6624	6631	5943	6896	16555	19375
								4%	4%	3%	4%	6%	9%
							grade 6 events	3611	4528	3192	3403	64326	46864
								2%	2%	2%	2%	25%	23%
							grade 7 events	120785	116949	131716	124075	112715	92278
								78%	77%	85%	83%	44%	46%

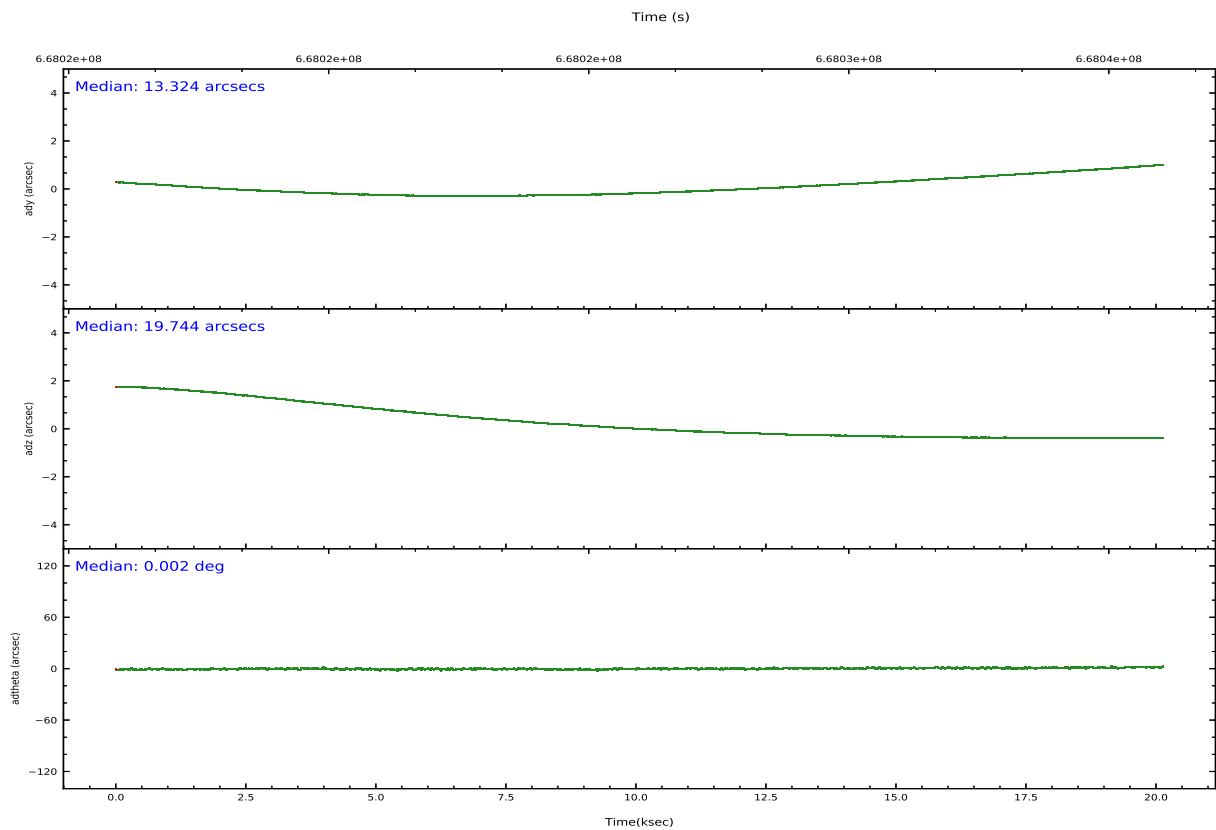
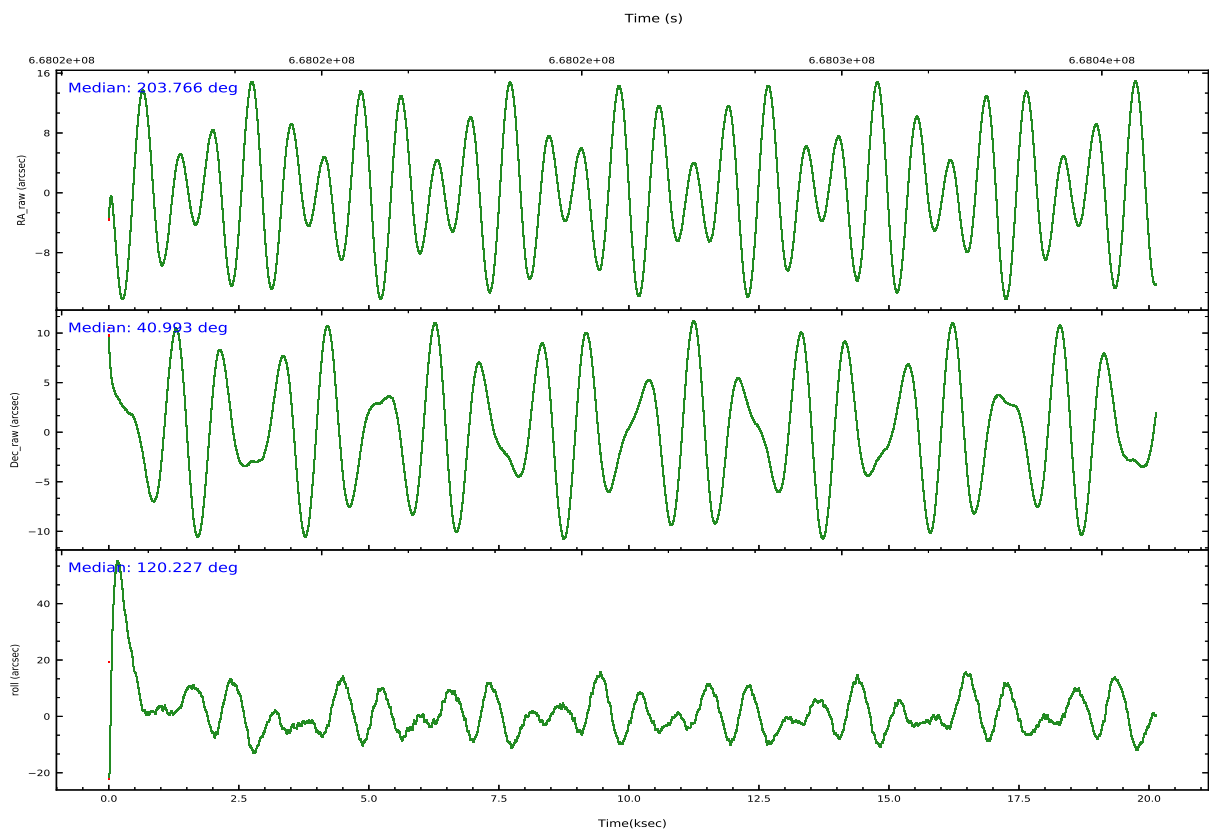
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	203.797611	203.77518954288
[deg] Pointing Dec	40.979511	40.99270368476
[deg] Pointing Roll	120.004287	120.22786300083
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	668016044.184000	668014922.2053601
Observation start date	2019-03-03T15:59:35	2019-03-03T15:42:02
[s] Observation end time (MET)	668036044.184000	668036660.91916
Observation end date	2019-03-03T21:32:55	2019-03-03T21:44:20
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar version number	8	8
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	O1	Y
CCD S2 on	N	N
CCD S3 on	Y	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



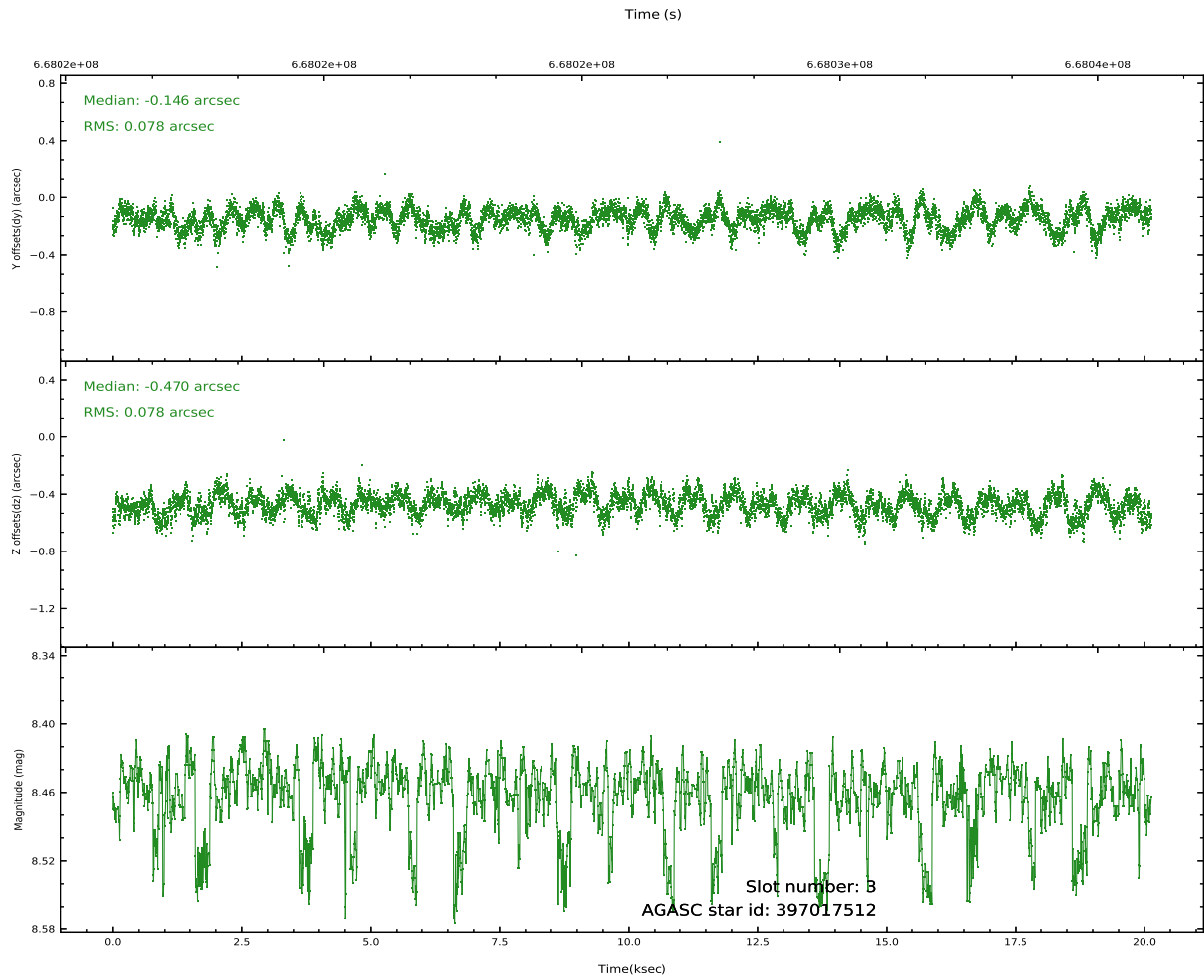
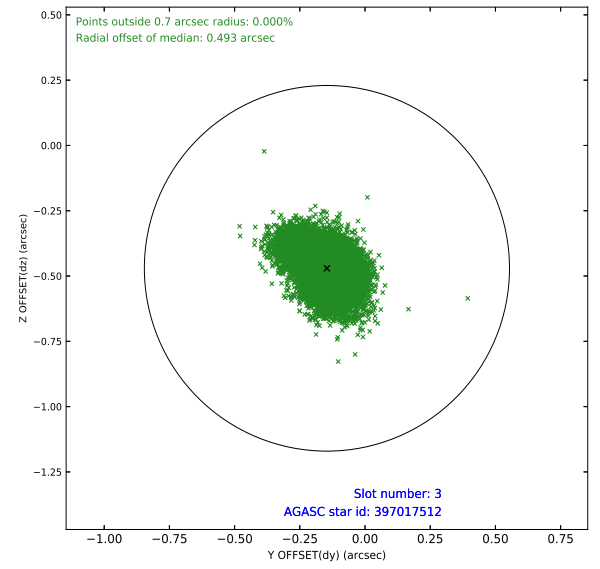
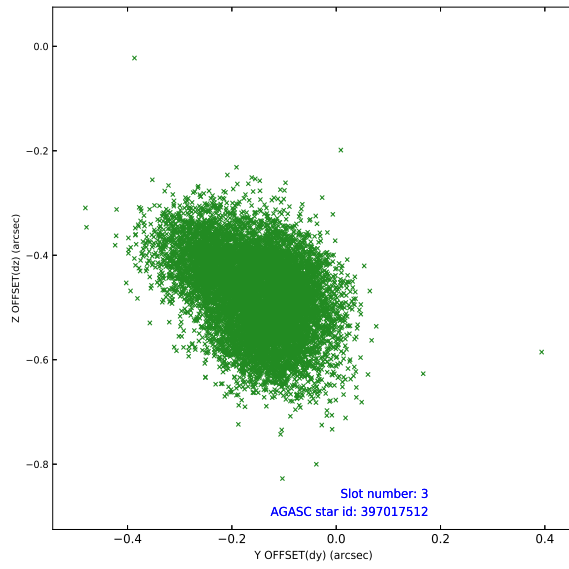


Slot Statistics

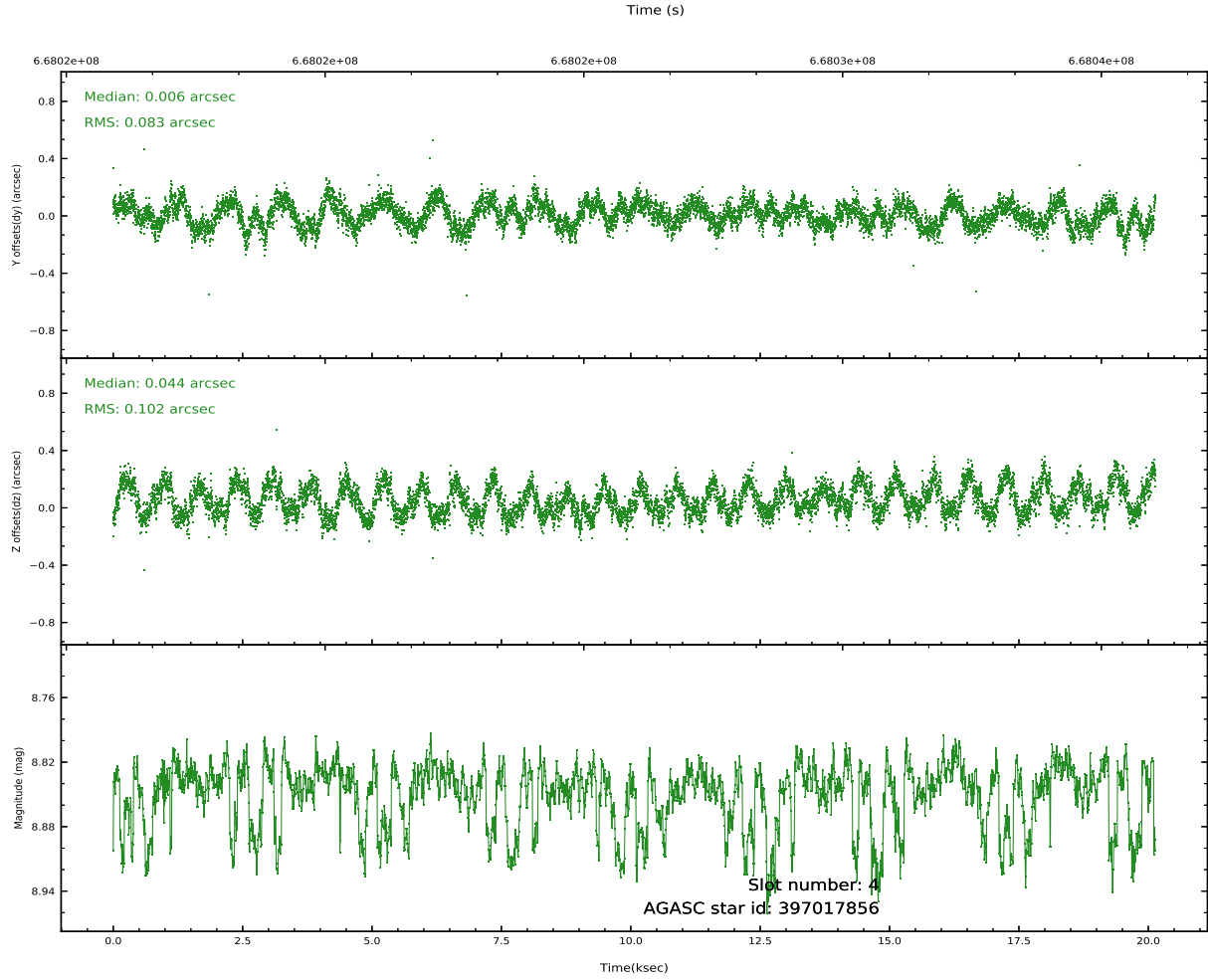
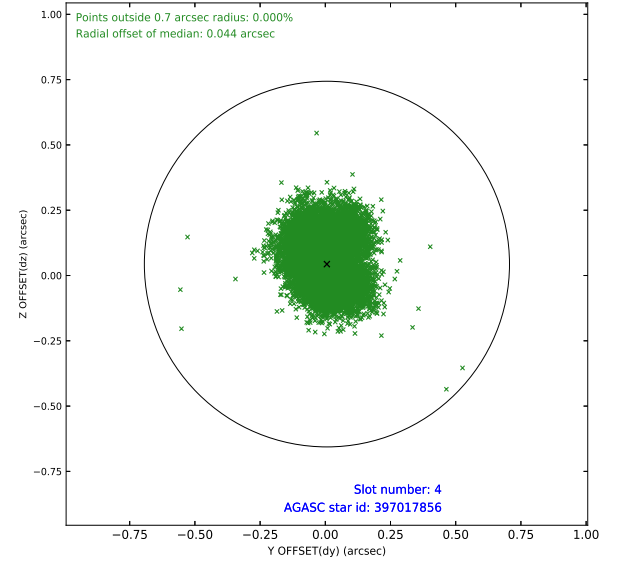
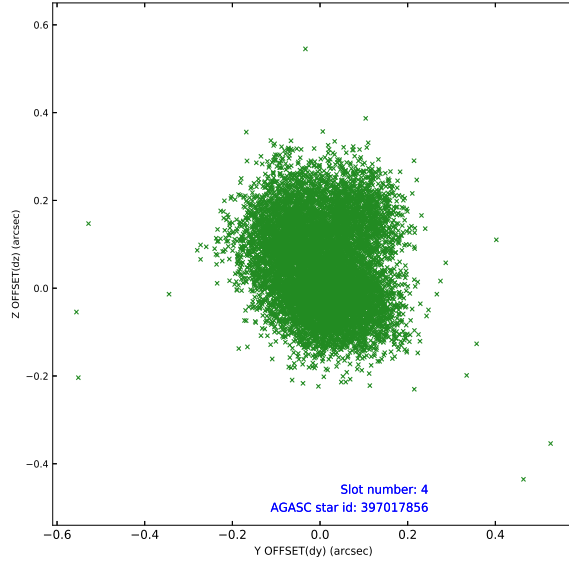
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.19	4912	1.000	0.048	-0.191	0.021	0.037	0.000000	0.000000	926.06	-844
1	FID		ACIS-I-3	7.42	4910	1.000	-0.025	0.282	0.023	0.032	0.000000	0.000000	43.58	-976
2	FID		ACIS-I-6	7.19	4911	1.000	-0.112	-0.022	0.038	0.062	0.000000	0.000000	391.78	1697
3	GUIDE	used	397017512	8.46	9820	1.000	-0.146	-0.470	0.118	0.188	203.541204	41.269966	1253.74	78
4	GUIDE	used	397017856	8.84	9810	1.000	0.006	0.044	0.143	0.216	204.301076	41.001312	-611.88	-1224
5	GUIDE	used	397020624	8.54	9815	1.000	0.074	0.068	0.150	0.247	204.395156	41.434823	617.04	-2216
6	GUIDE	used	397020968	9.21	9818	1.000	0.179	0.323	0.151	0.241	204.498416	41.216332	-203.41	-2072
7	GUIDE	used	397024152	8.83	9812	1.000	-0.107	0.032	0.121	0.190	203.568845	40.711407	-523.26	1023

2.4 Star Slots

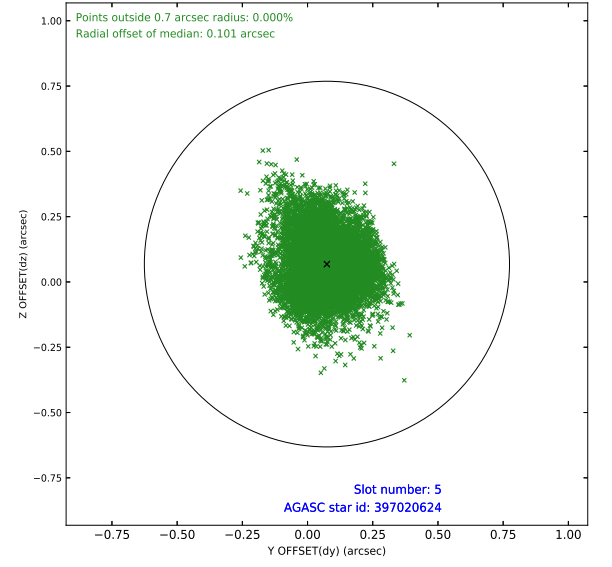
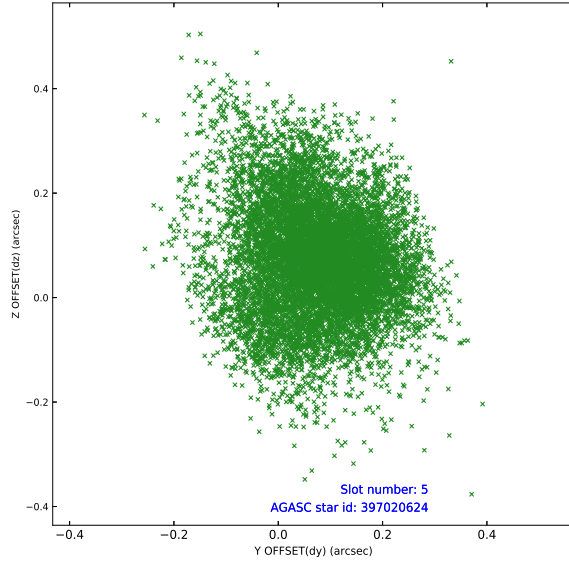
2.4.1 Slot 3



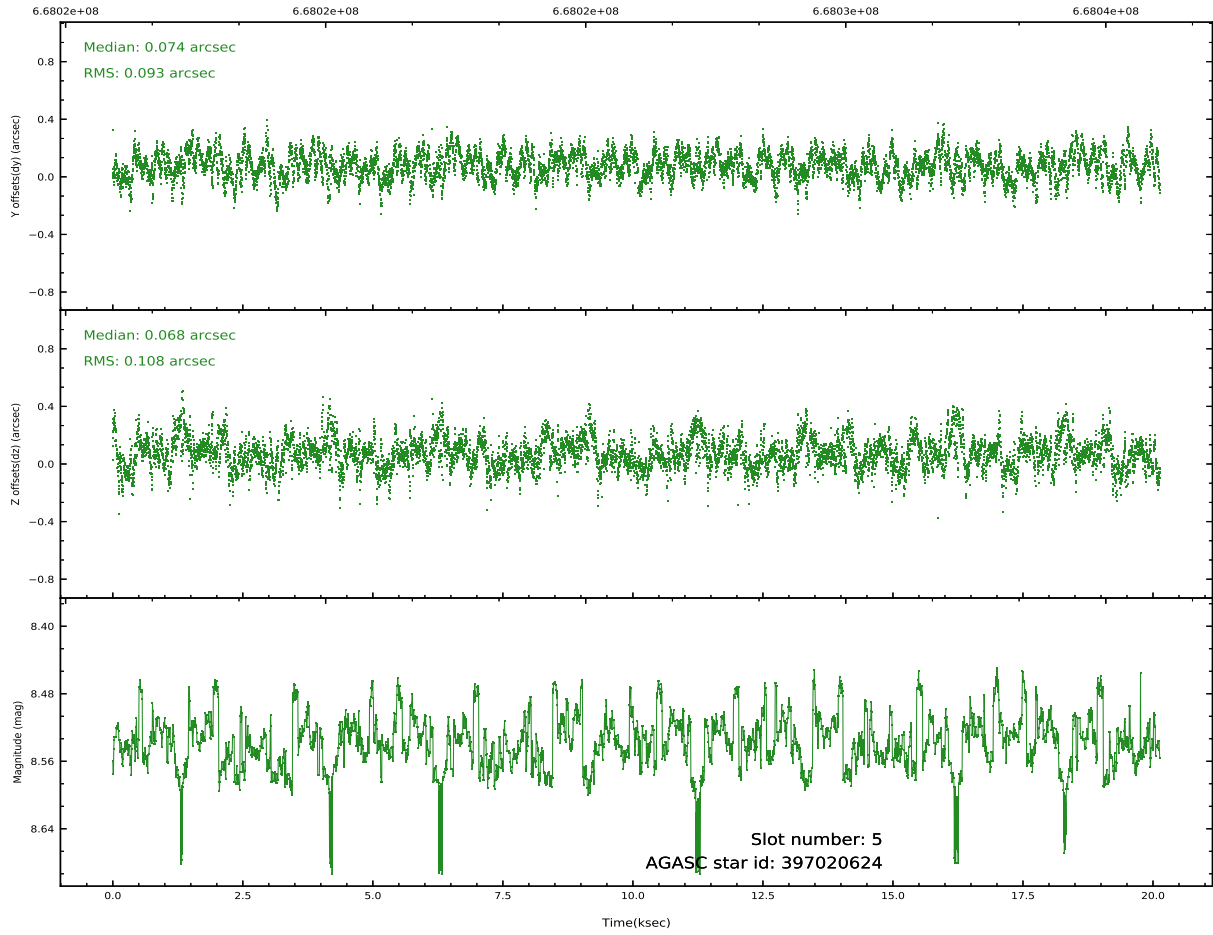
2.4.2 Slot 4



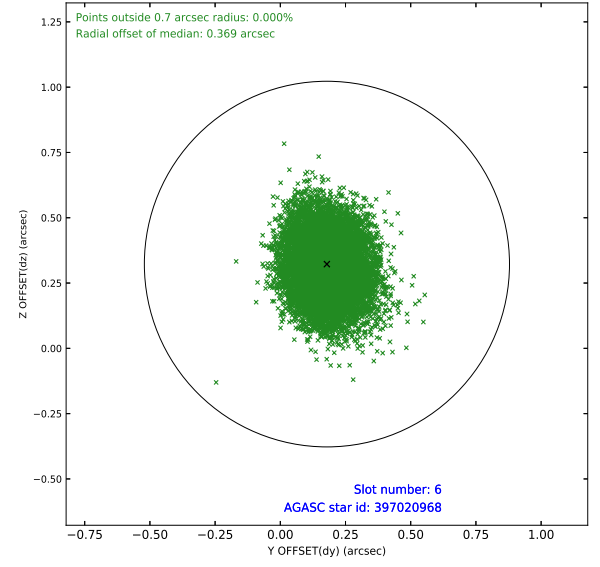
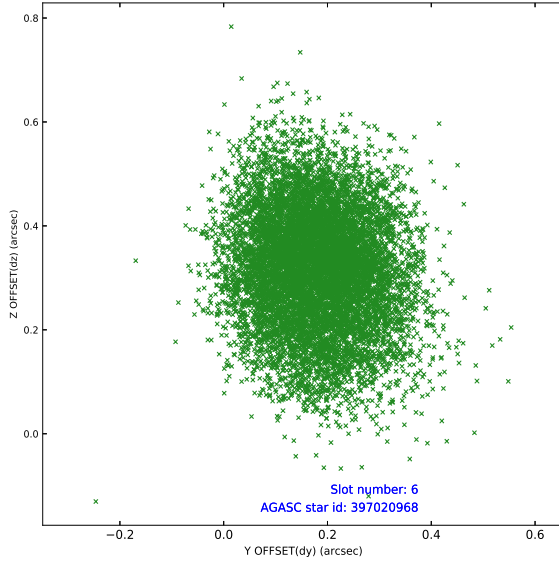
2.4.3 Slot 5



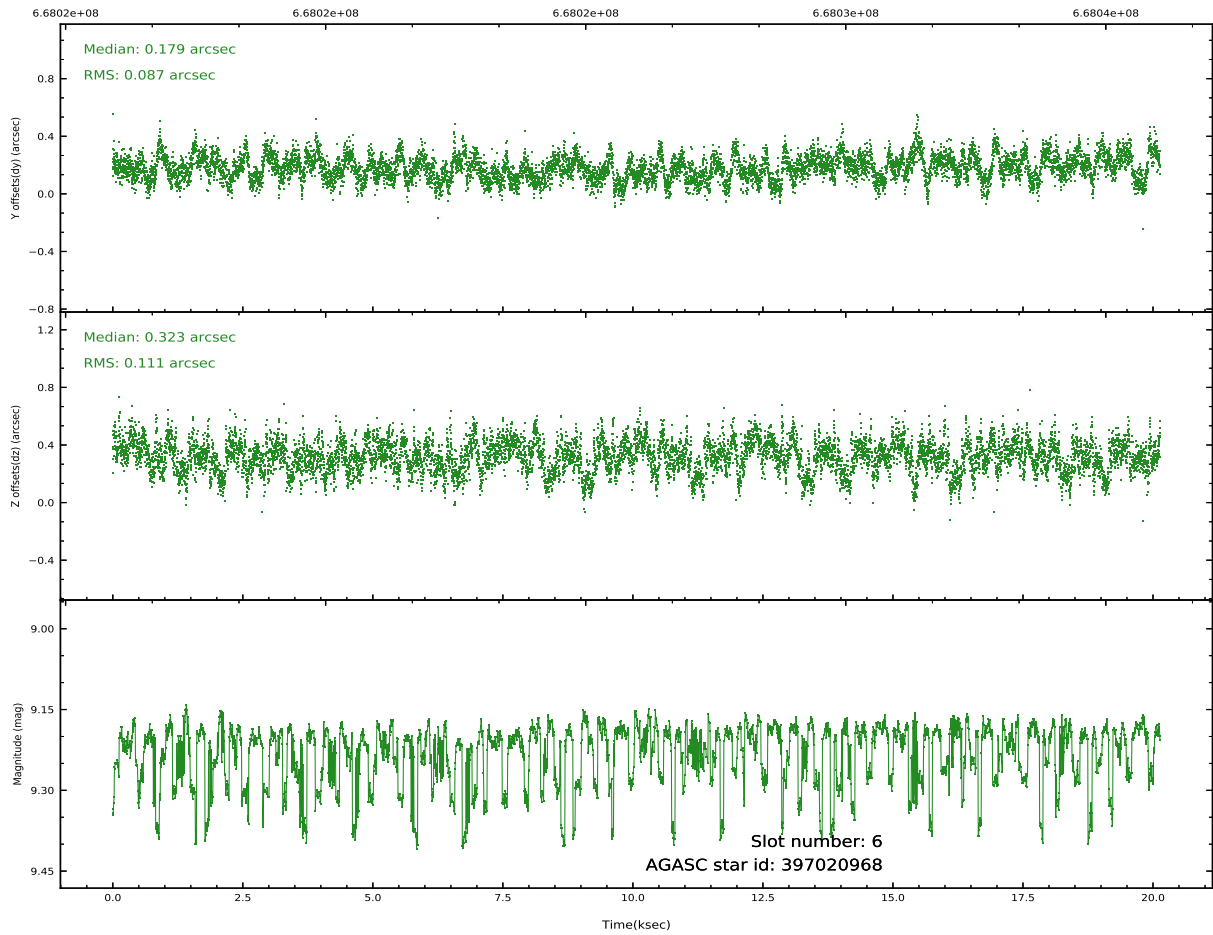
Time (s)



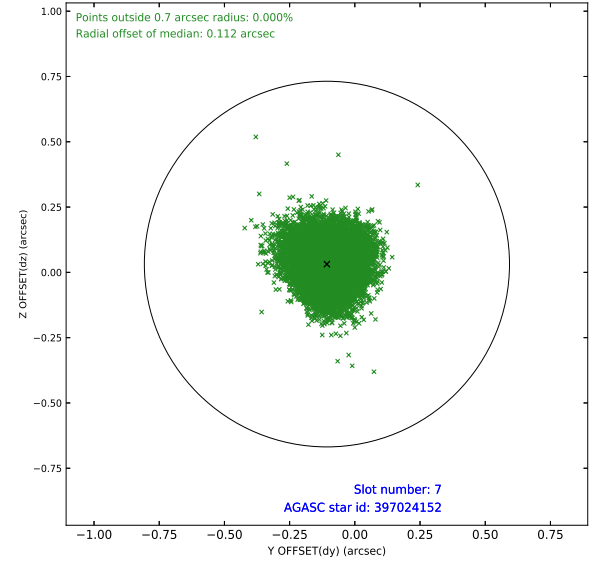
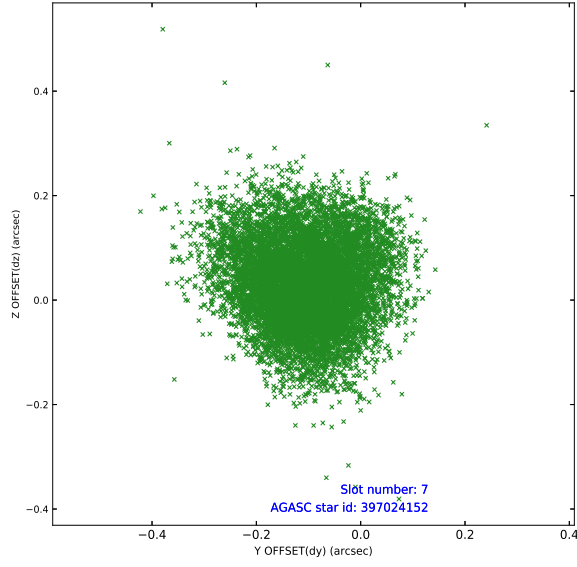
2.4.4 Slot 6



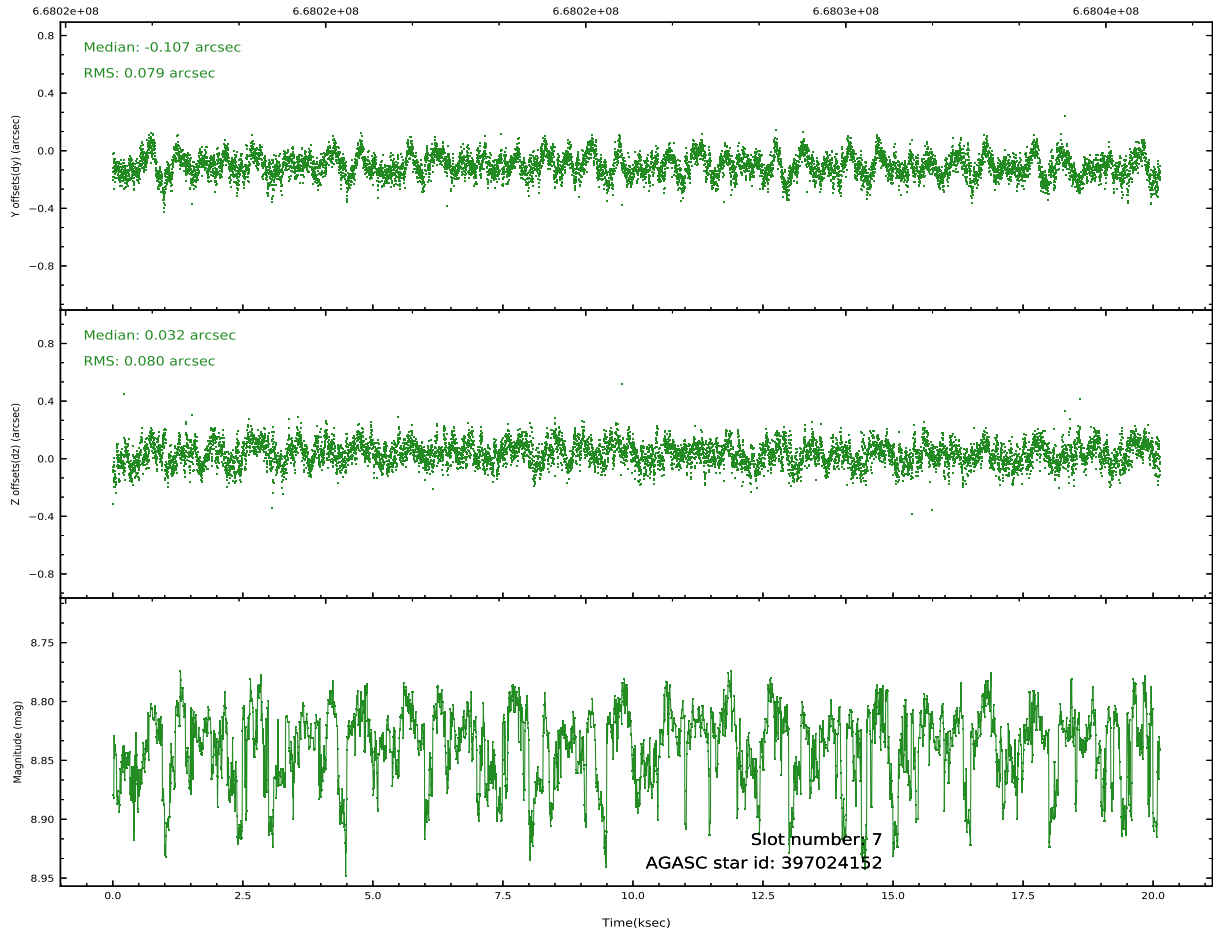
Time (s)



2.4.5 Slot 7

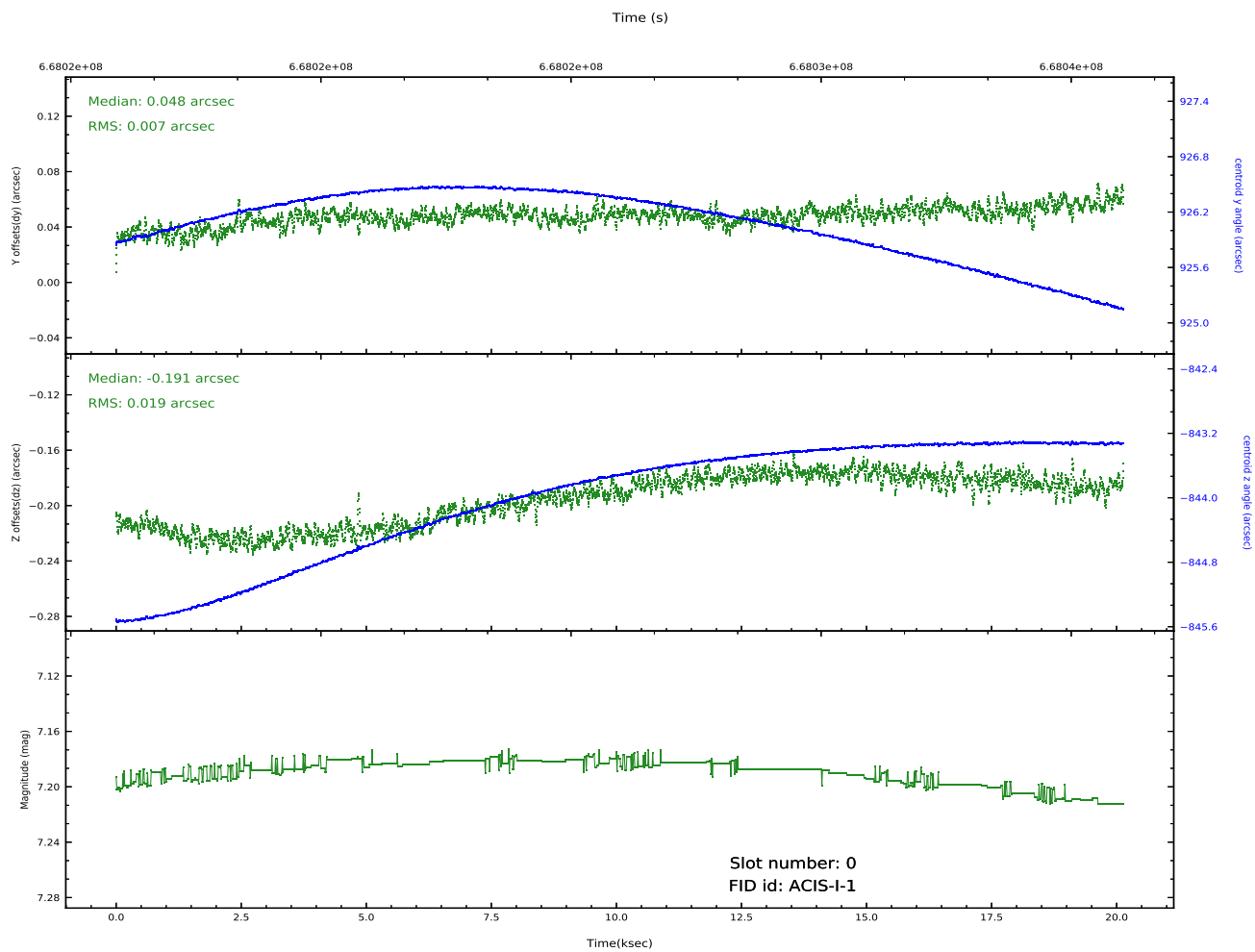
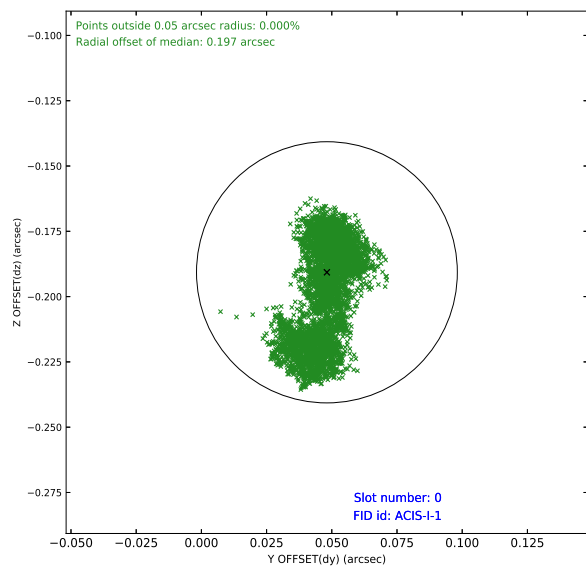
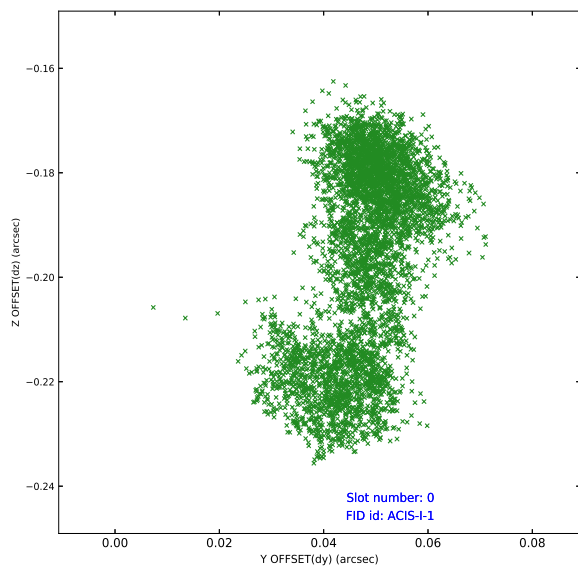


Time (s)

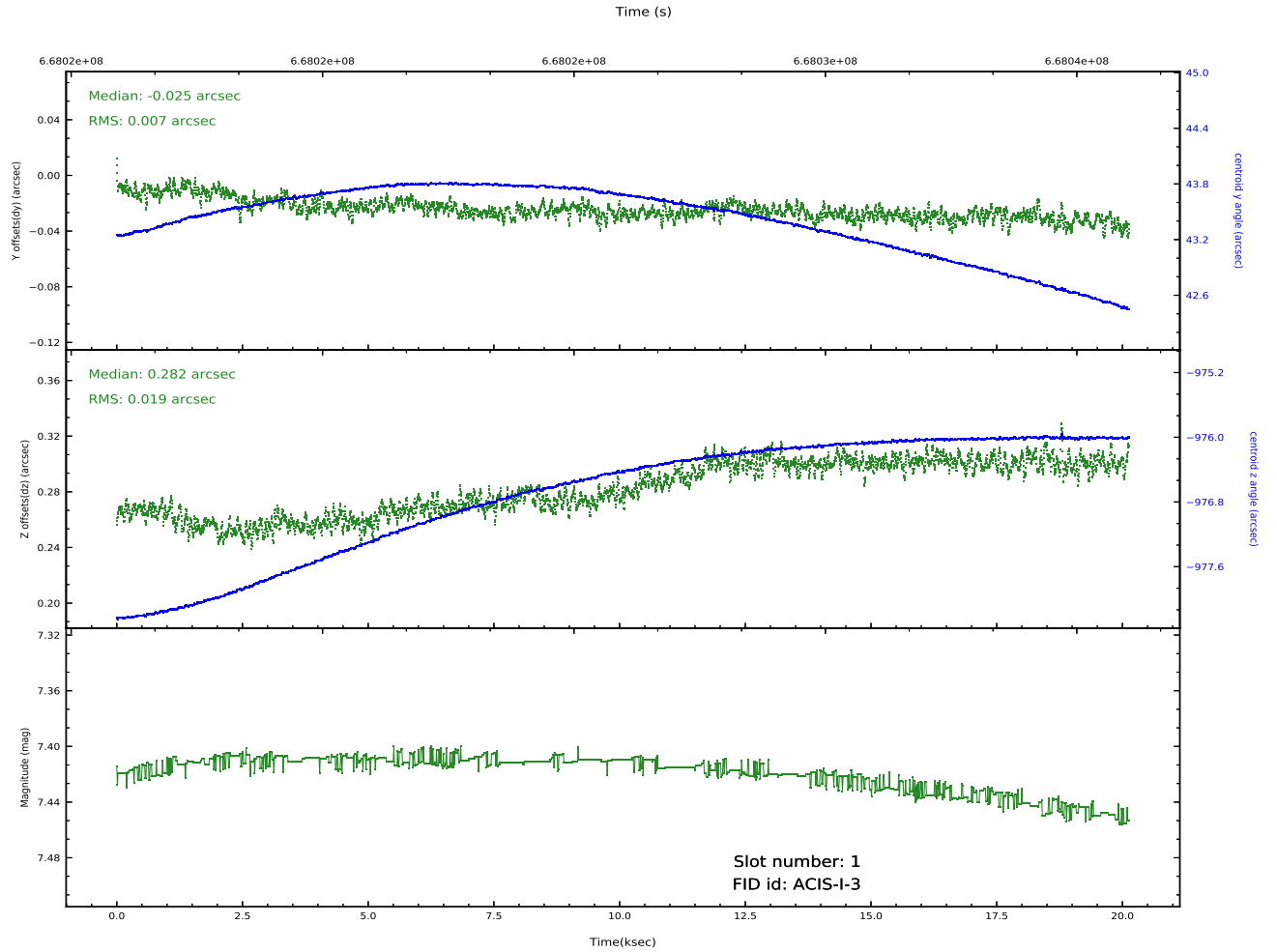
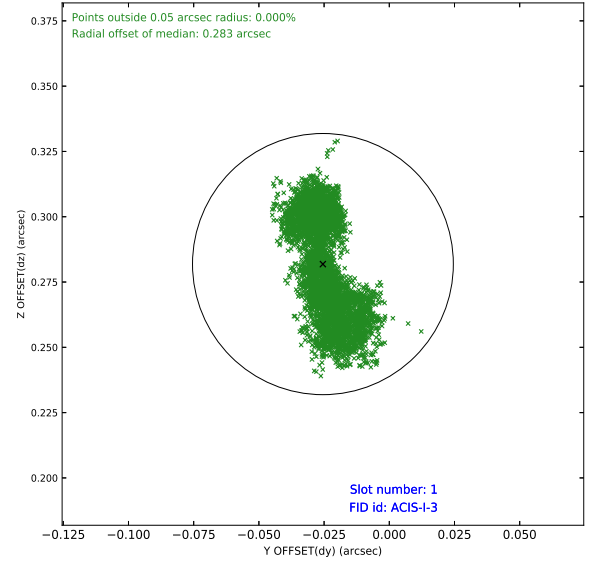
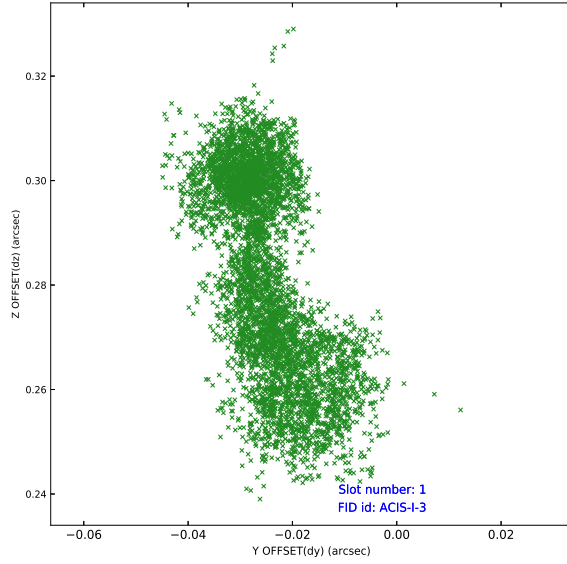


2.5 FID Slots

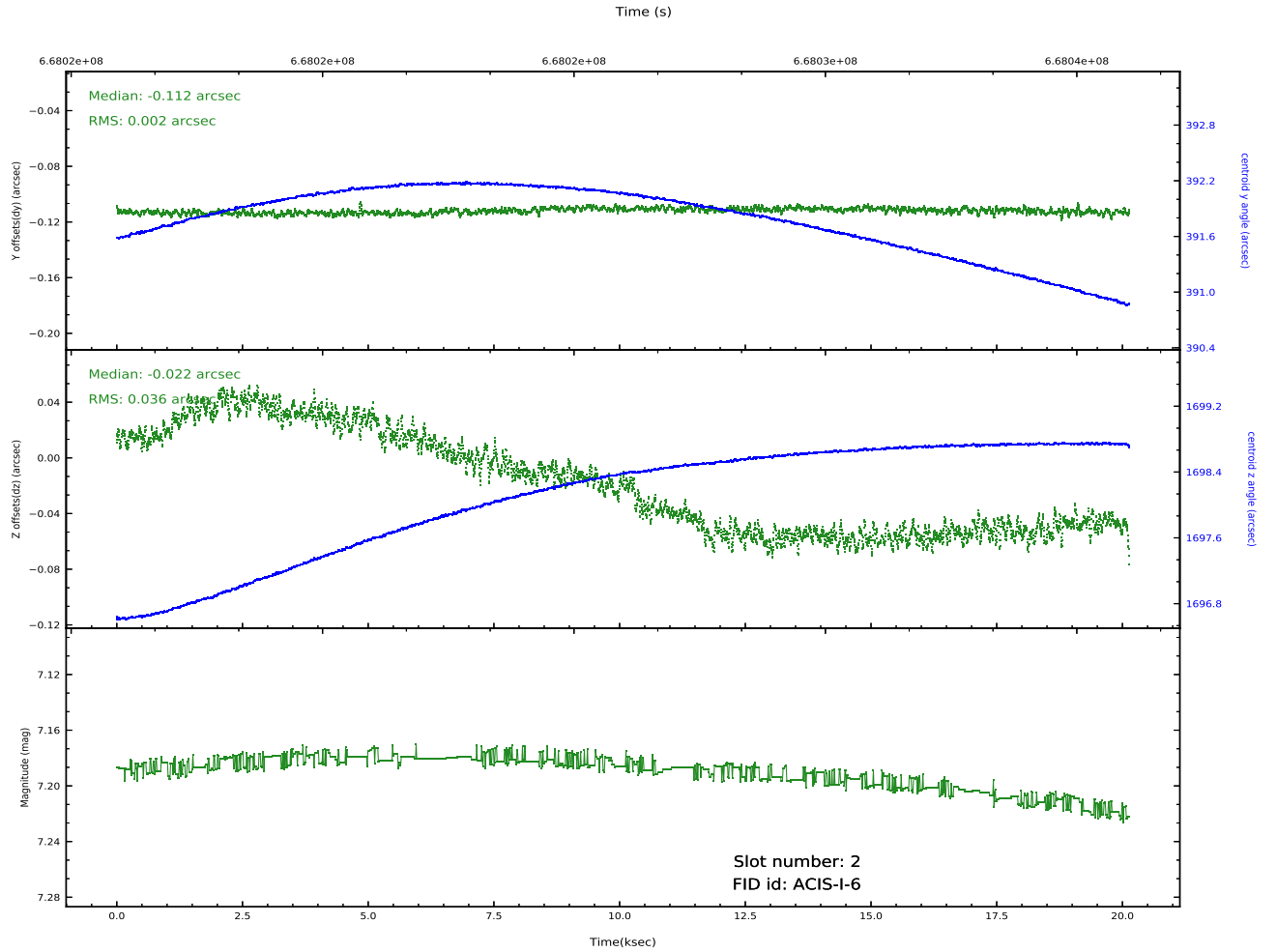
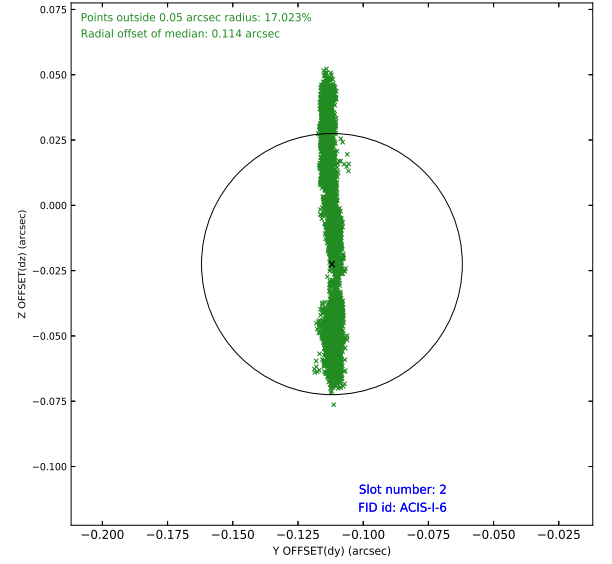
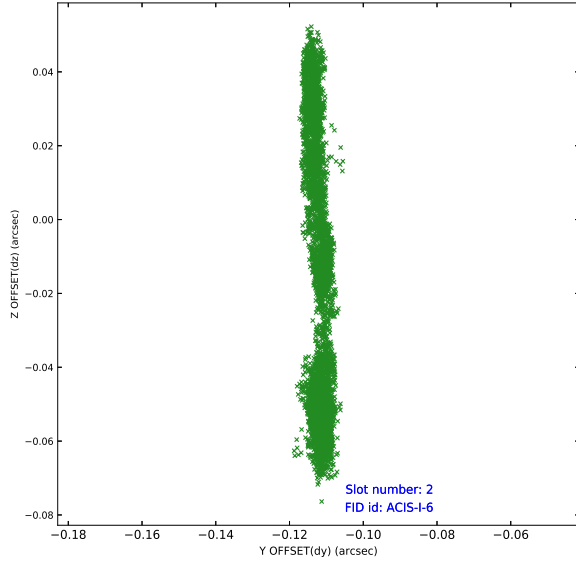
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Francesca Civano
V&V Date (YYYY-MM-DD)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.950592396855

A.2 Comments