

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19682 - L2 Version 2
Chandra X-Ray Center

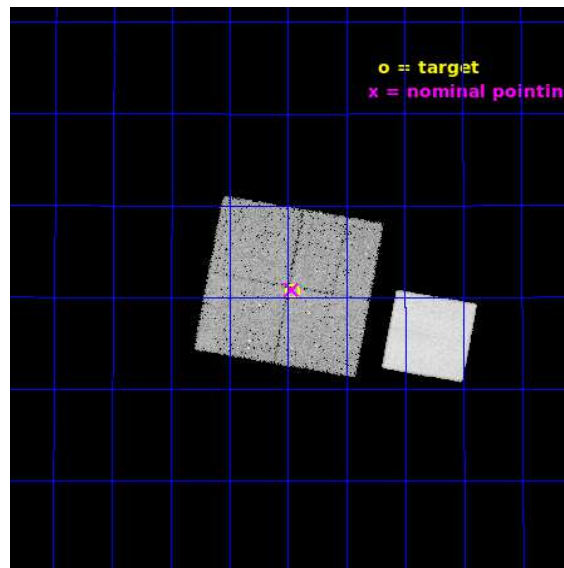
L2 Processing Date : Oct 24 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

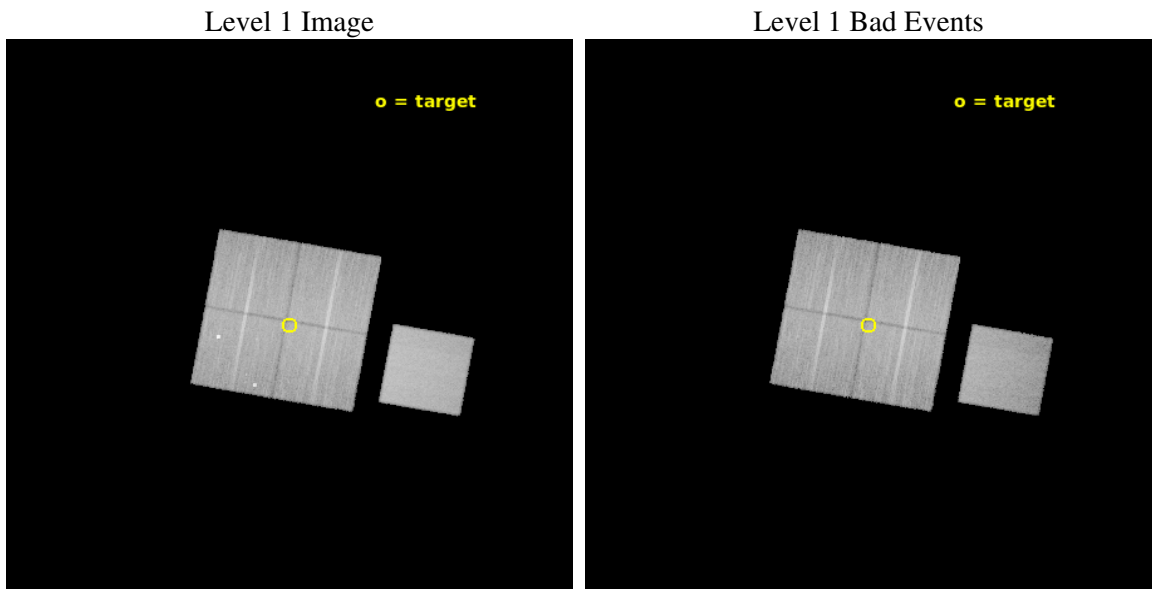
seq_num	901389	Sequence number
obs_id	19682	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	Xbootes (CDWFS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.61551	Observer's specified target RA [deg]
dec_targ	35.510713	Observer's specified target Dec [deg]
ra_nom	218.61660906744	Nominal RA [deg]
dec_nom	35.514222561474	Nominal Dec [deg]
roll_nom	100.20115350406	Nominal Roll [deg]
revision	2	Processing version of data
ontime	24880.477010727	Sum of GTIs [s]
livetime	24555.395261841	Livetime [s]
ontime0	24877.335950375	Sum of GTIs [s]
ontime1	24889.900191545	Sum of GTIs [s]
ontime2	24886.759141326	Sum of GTIs [s]
ontime3	24880.477010727	Sum of GTIs [s]
ontime7	24889.900191545	Sum of GTIs [s]
l2events	164147	Number of level 2 events



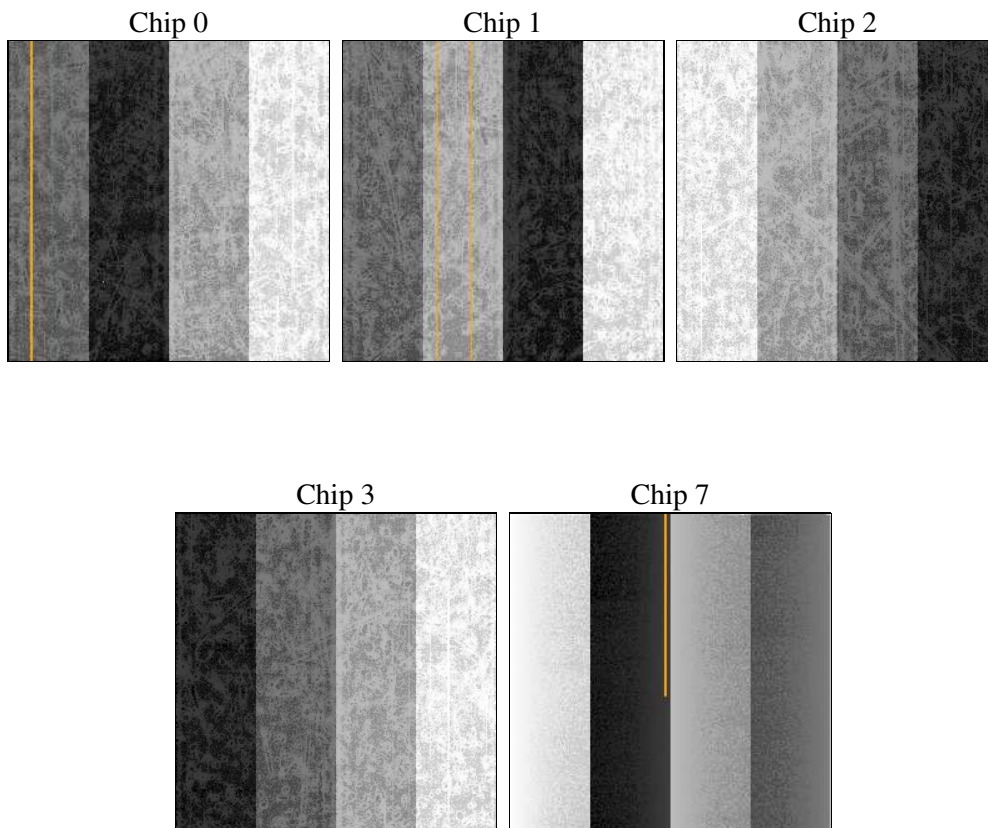
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	24880.477010727	Sum of GTIs [s]
caldbver	4.9.3	 	ontime0	24877.335950375	Sum of GTIs [s]
date	2020-10-25T01:42:11	Date and time of file creation	ontime1	24889.900191545	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	24886.759141326	Sum of GTIs [s]
			ontime3	24880.477010727	Sum of GTIs [s]
			ontime7	24889.900191545	Sum of GTIs [s]
			l1events	963246	Number of level 1 events

2.1.4 Events

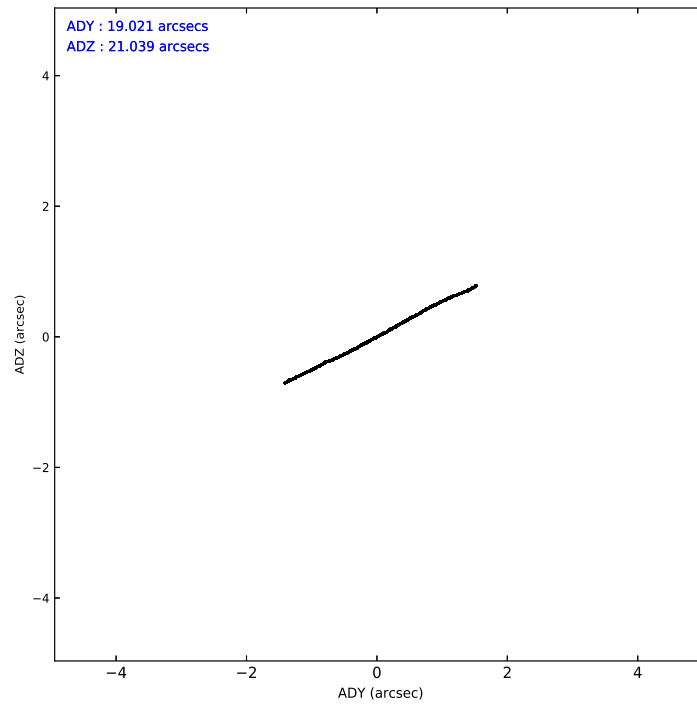
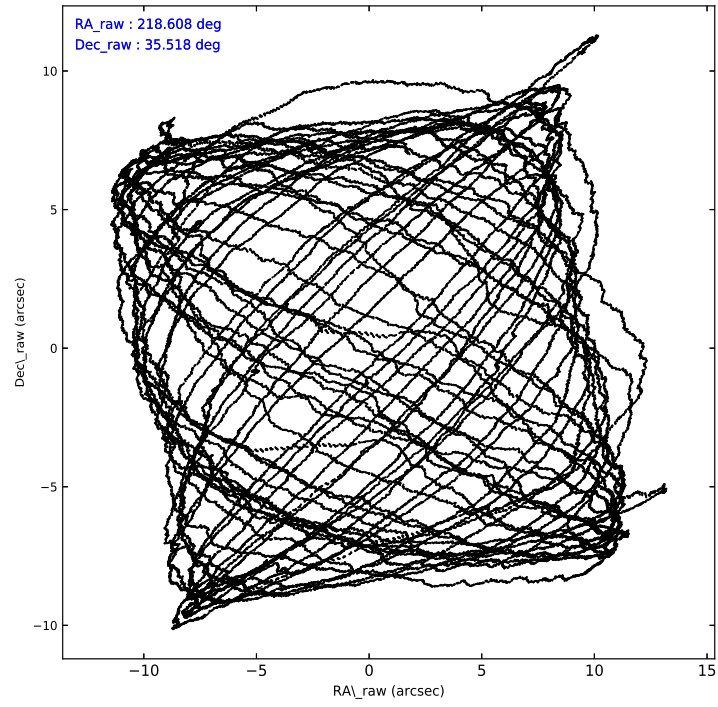
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	172251	180826	190828	183130	236211
rejected events	152433	153231	171794	164243	135267
rejected %	88%	84%	90%	89%	57%

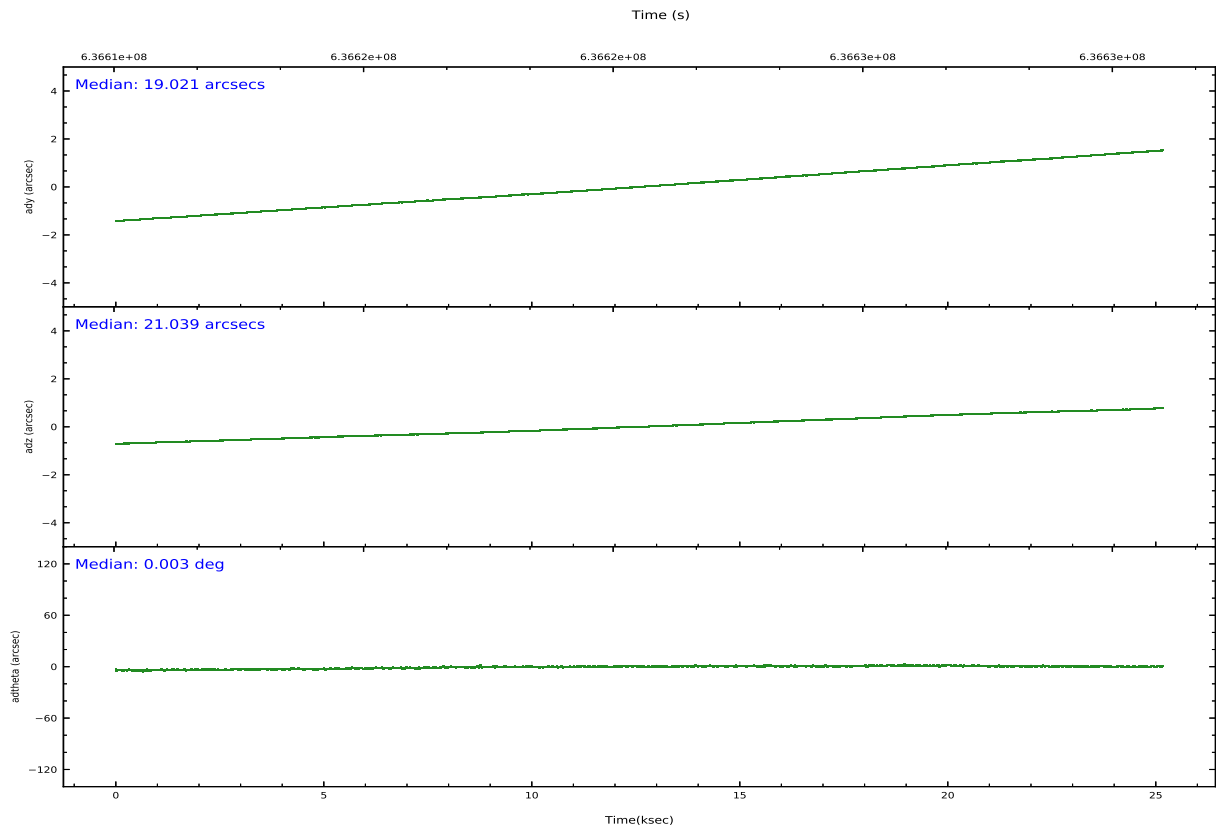
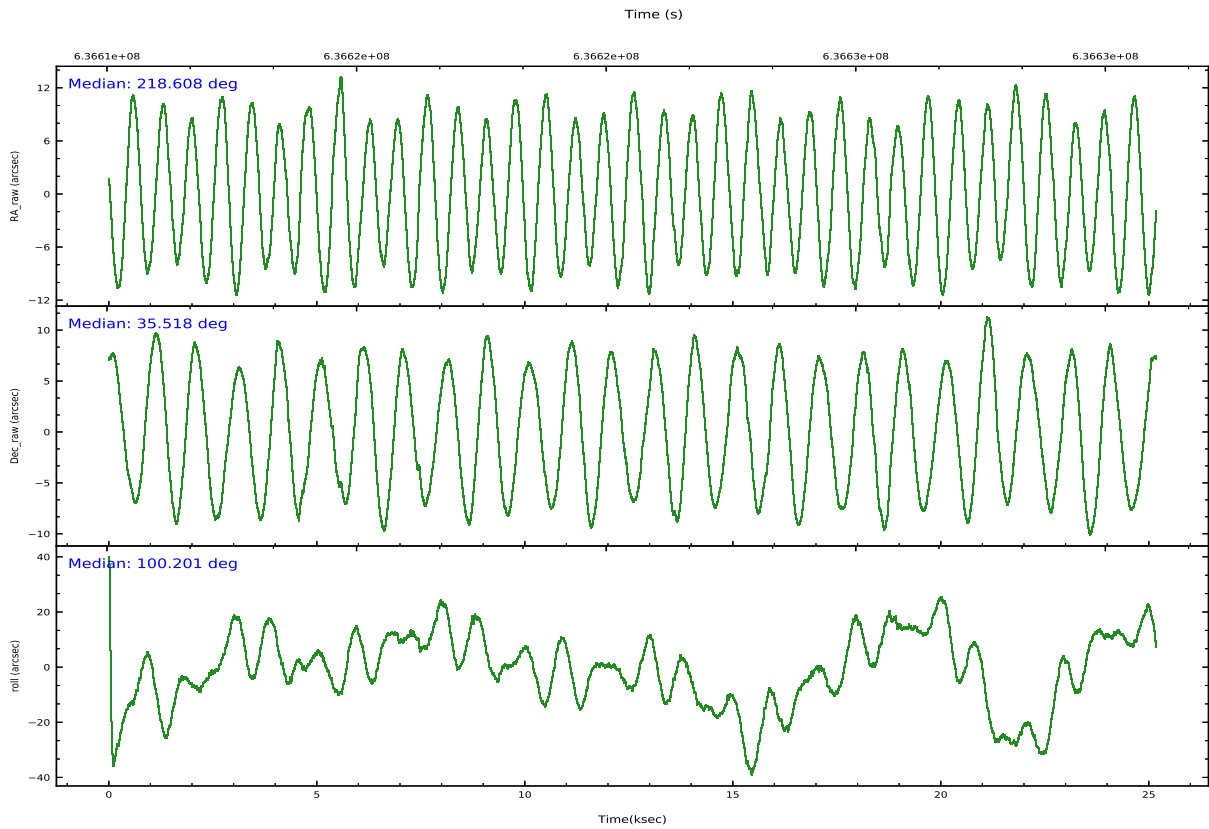
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	6528	12917	6682	6648	8284
	3%	7%	3%	3%	3%
grade 1 events	84	153	76	125	314
	0%	0%	0%	0%	0%
grade 2 events	4996	5375	4551	4100	20878
	2%	2%	2%	2%	8%
grade 3 events	2105	2028	1976	1977	7937
	1%	1%	1%	1%	3%
grade 4 events	1921	1942	1895	1945	7792
	1%	1%	0%	1%	3%
grade 5 events	7473	7618	6790	8430	23144
	4%	4%	3%	4%	9%
grade 6 events	4270	5343	3941	4221	56071
	2%	2%	2%	2%	23%
grade 7 events	144874	145450	164917	155684	111791
	84%	80%	86%	85%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	218.630172	218.61660906744	CCD I2 on	Y	Y
[deg] Pointing Dec	35.497556	35.514222561474	CCD I3 on	Y	Y
[deg] Pointing Roll	99.991481	100.20115350406	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	636610221.184000	636609784.3358999	CCD S5 on	N	N
Observation start date	2018-03-05T04:09:12	2018-03-05T04:03:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	636635221.184000	636635885.44994	On-chip summing requested	N	N
Observation end date	2018-03-05T11:05:52	2018-03-05T11:18:05	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



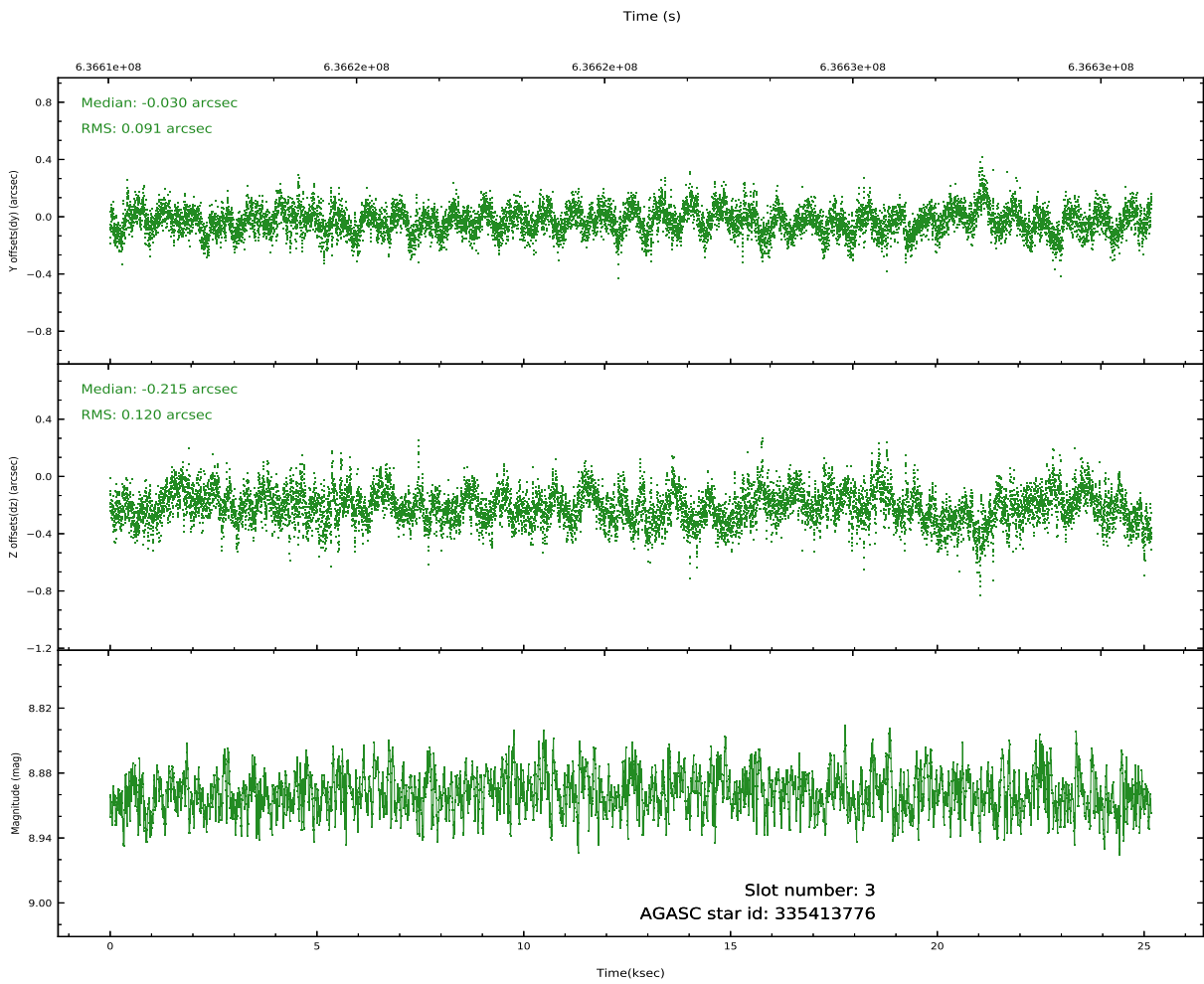
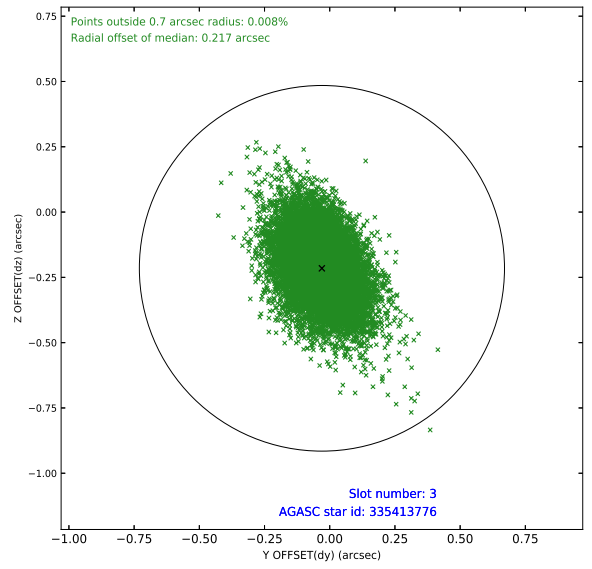
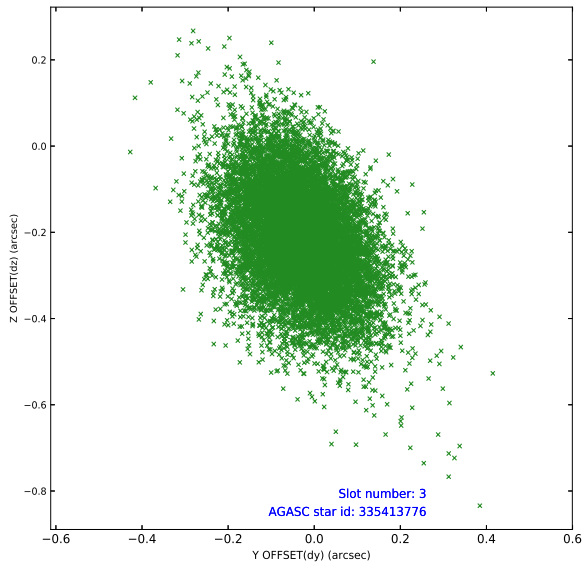


Slot Statistics

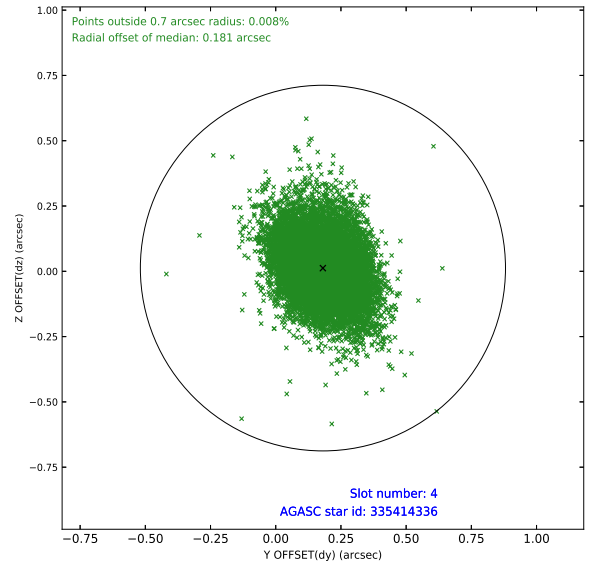
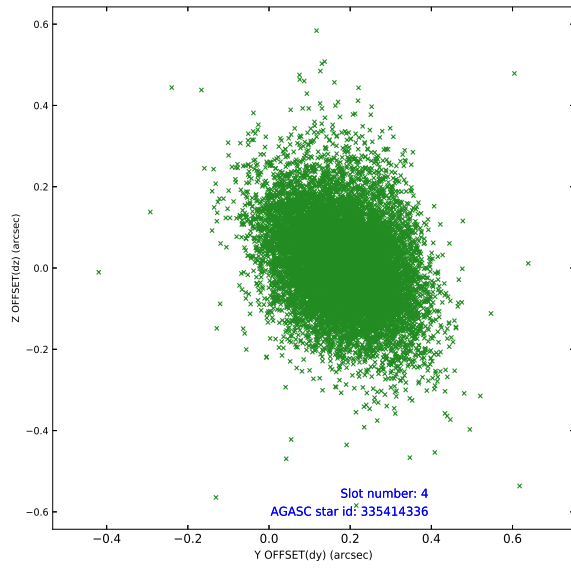
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.24	6141	1.000	0.216	-0.163	0.016	0.026	0.000000	0.000000	920.43	-845
1	FID		ACIS-I-5	7.23	6141	1.000	-0.308	0.181	0.016	0.024	0.000000	0.000000	-1827.96	1052
2	FID		ACIS-I-6	7.25	6140	1.000	-0.001	0.057	0.022	0.040	0.000000	0.000000	385.87	1697
3	GUIDE	used	335413776	8.90	12273	1.000	-0.030	-0.215	0.155	0.265	218.421411	36.051962	2072.24	252
4	GUIDE	used	335414336	8.92	12271	1.000	0.181	0.012	0.152	0.255	218.979022	35.090910	-1617.80	-758
5	GUIDE	used	335421696	8.91	12265	1.000	-0.308	-0.179	0.167	0.276	218.045699	35.772449	1274.56	1507
6	GUIDE	used	335549864	7.52	12280	1.000	0.202	-0.026	0.145	0.255	219.286726	35.929745	1207.54	-2155
7	GUIDE	used	335554008	9.76	12261	1.000	-0.010	0.414	0.261	0.463	219.383422	35.471863	-465.33	-2160

2.4 Star Slots

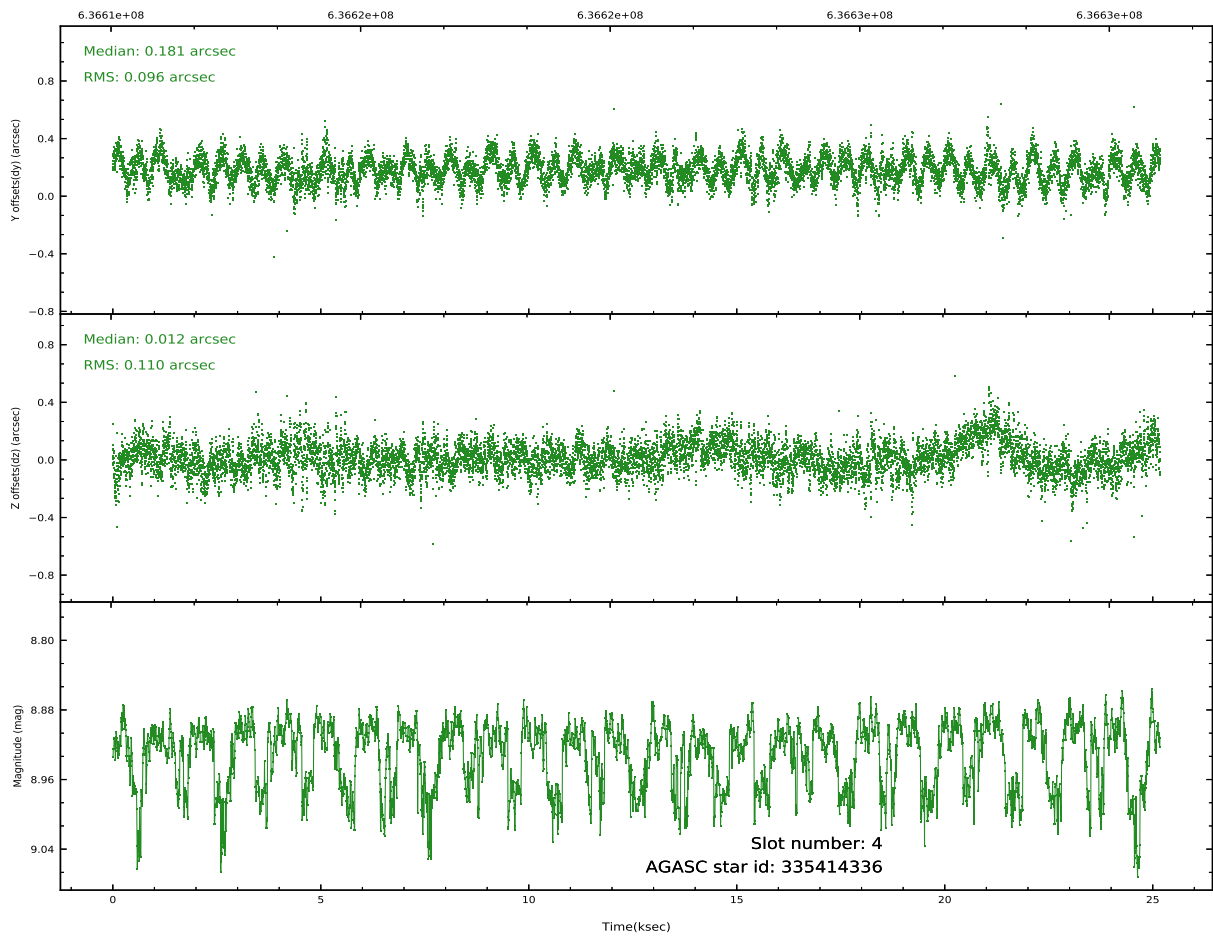
2.4.1 Slot 3



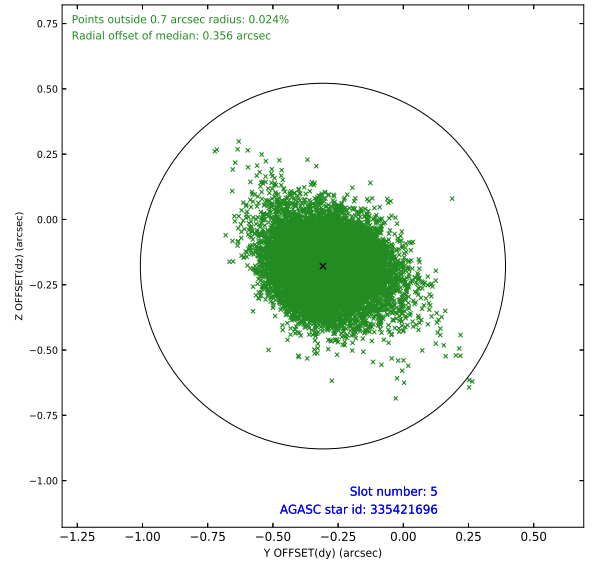
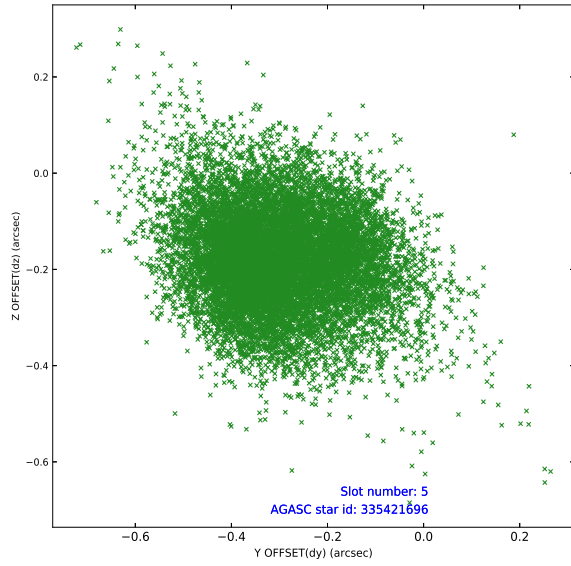
2.4.2 Slot 4



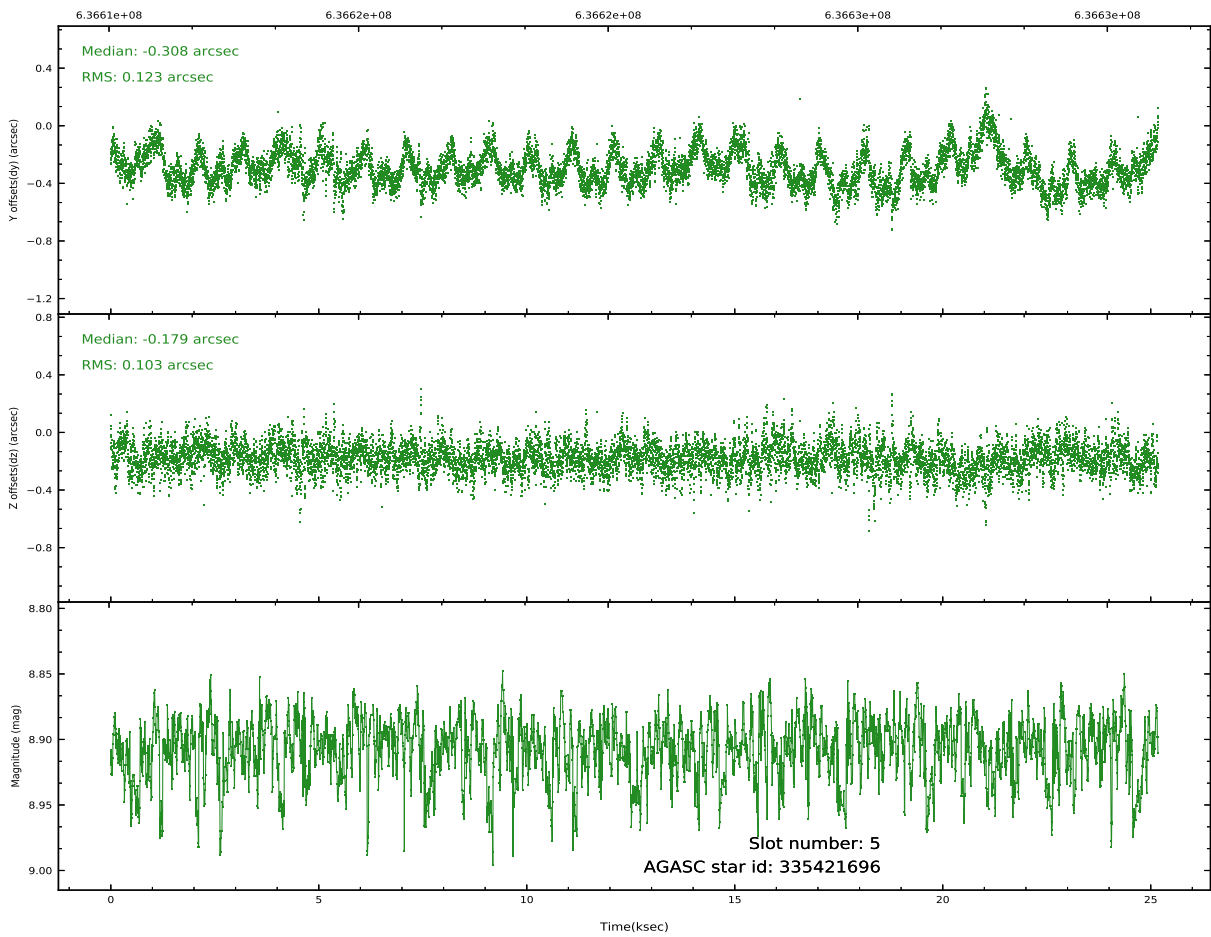
Time (s)



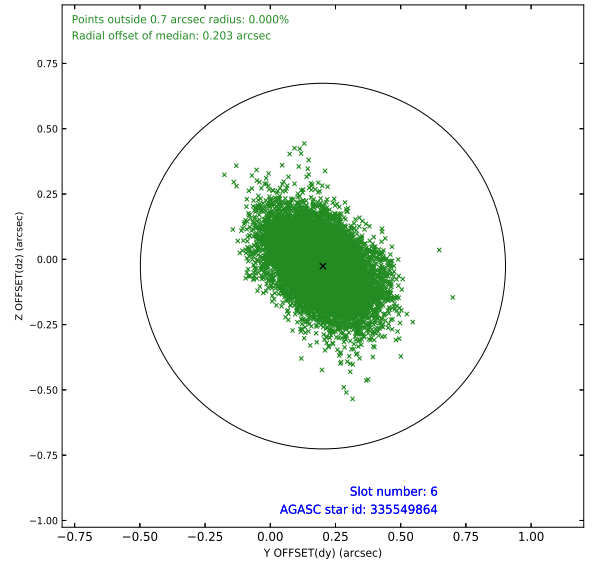
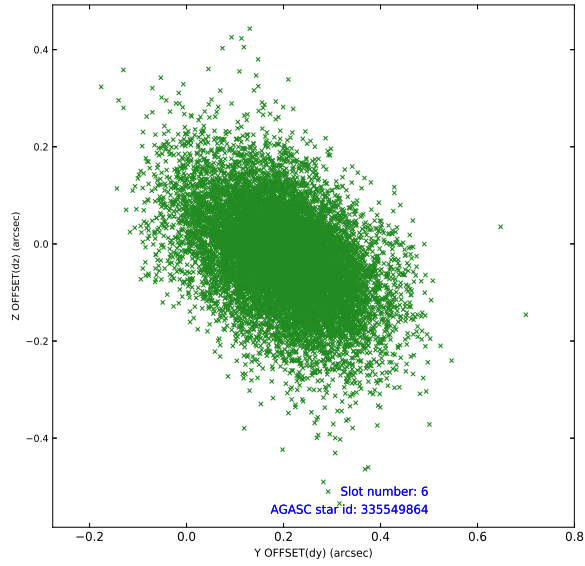
2.4.3 Slot 5



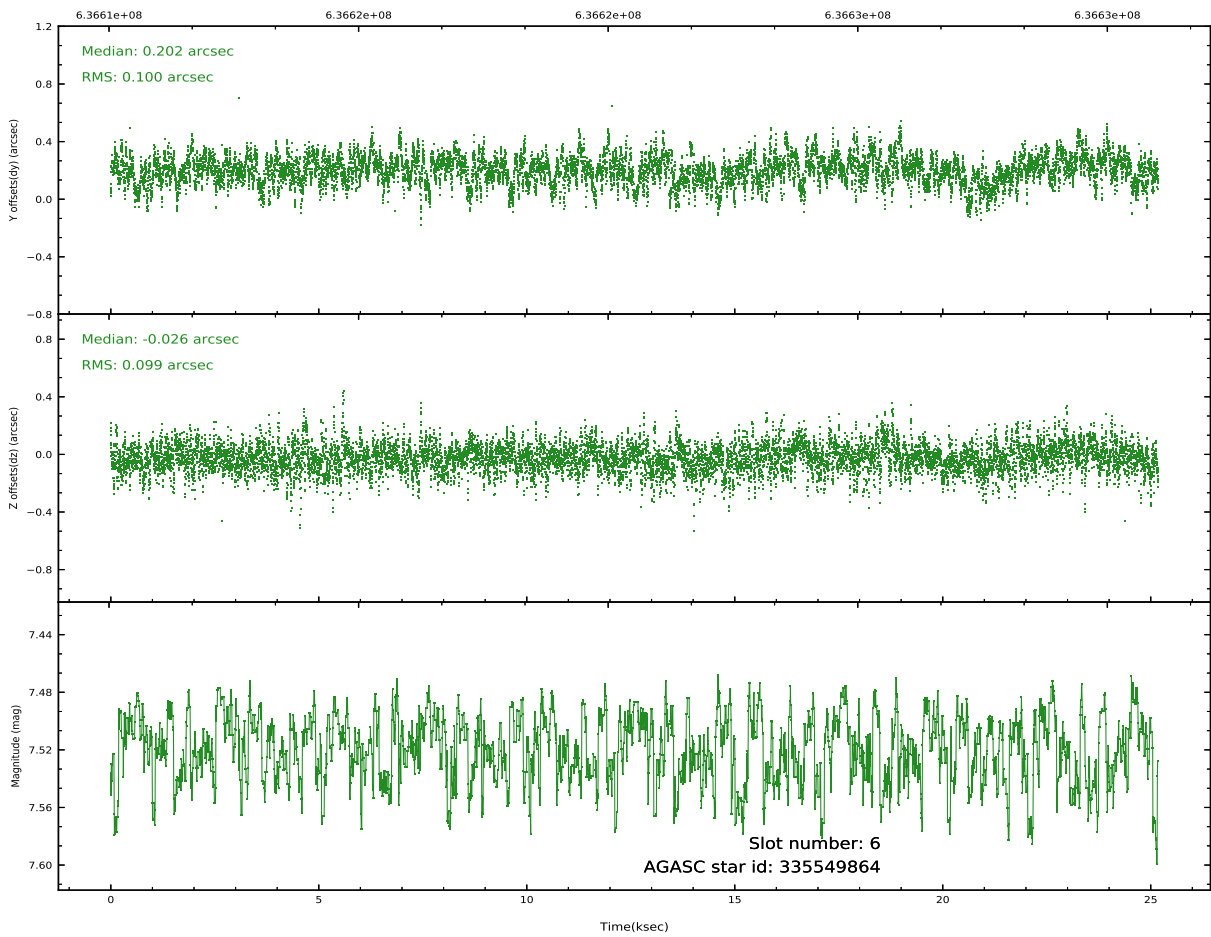
Time (s)



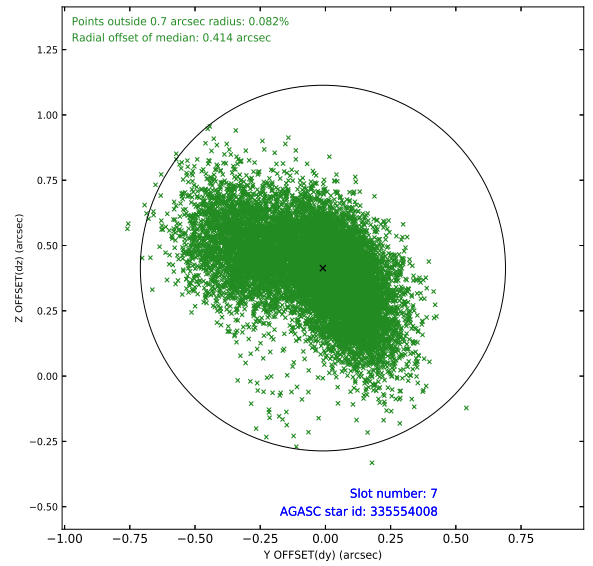
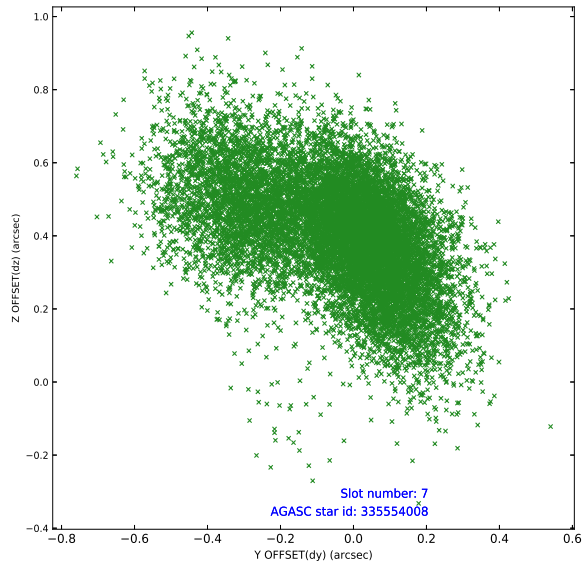
2.4.4 Slot 6



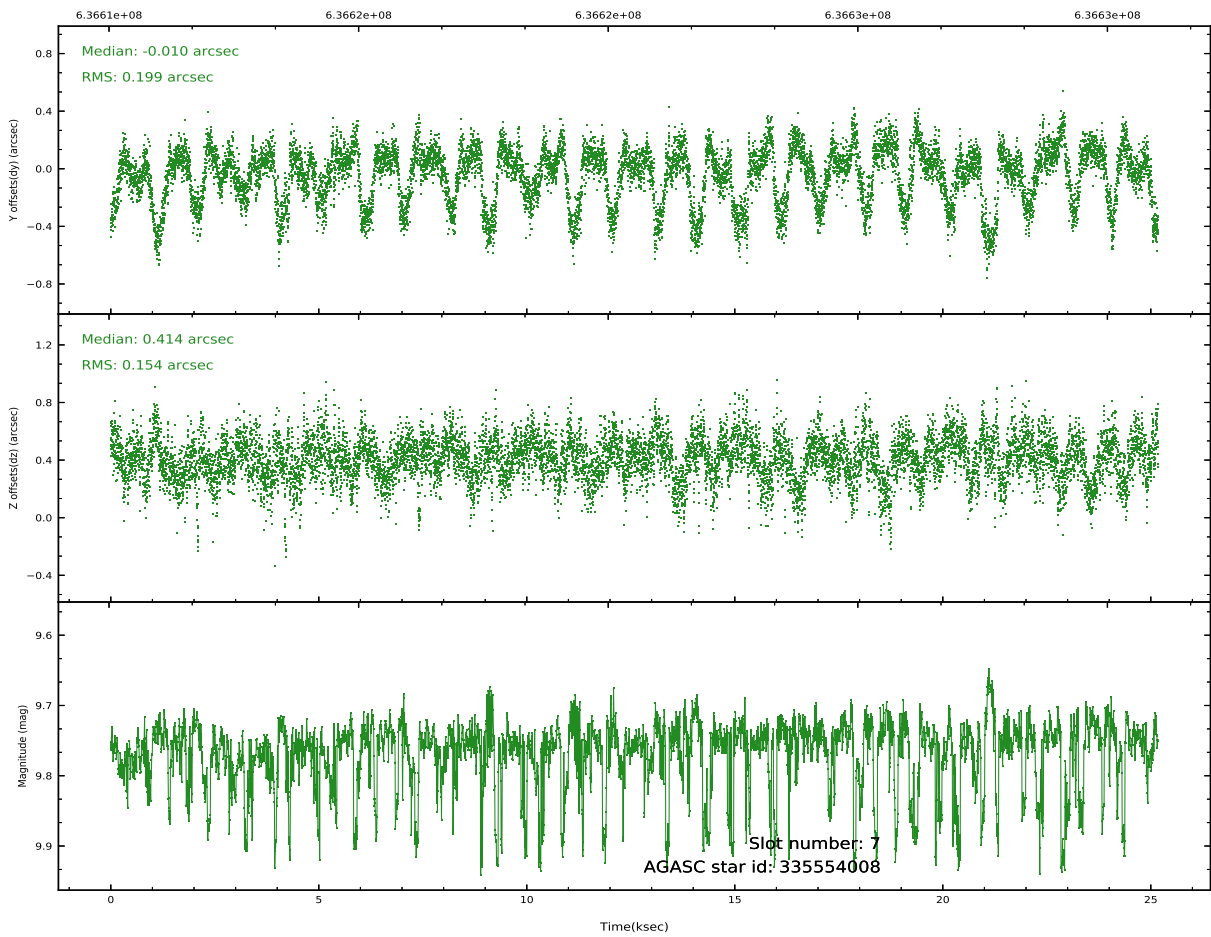
Time (s)



2.4.5 Slot 7

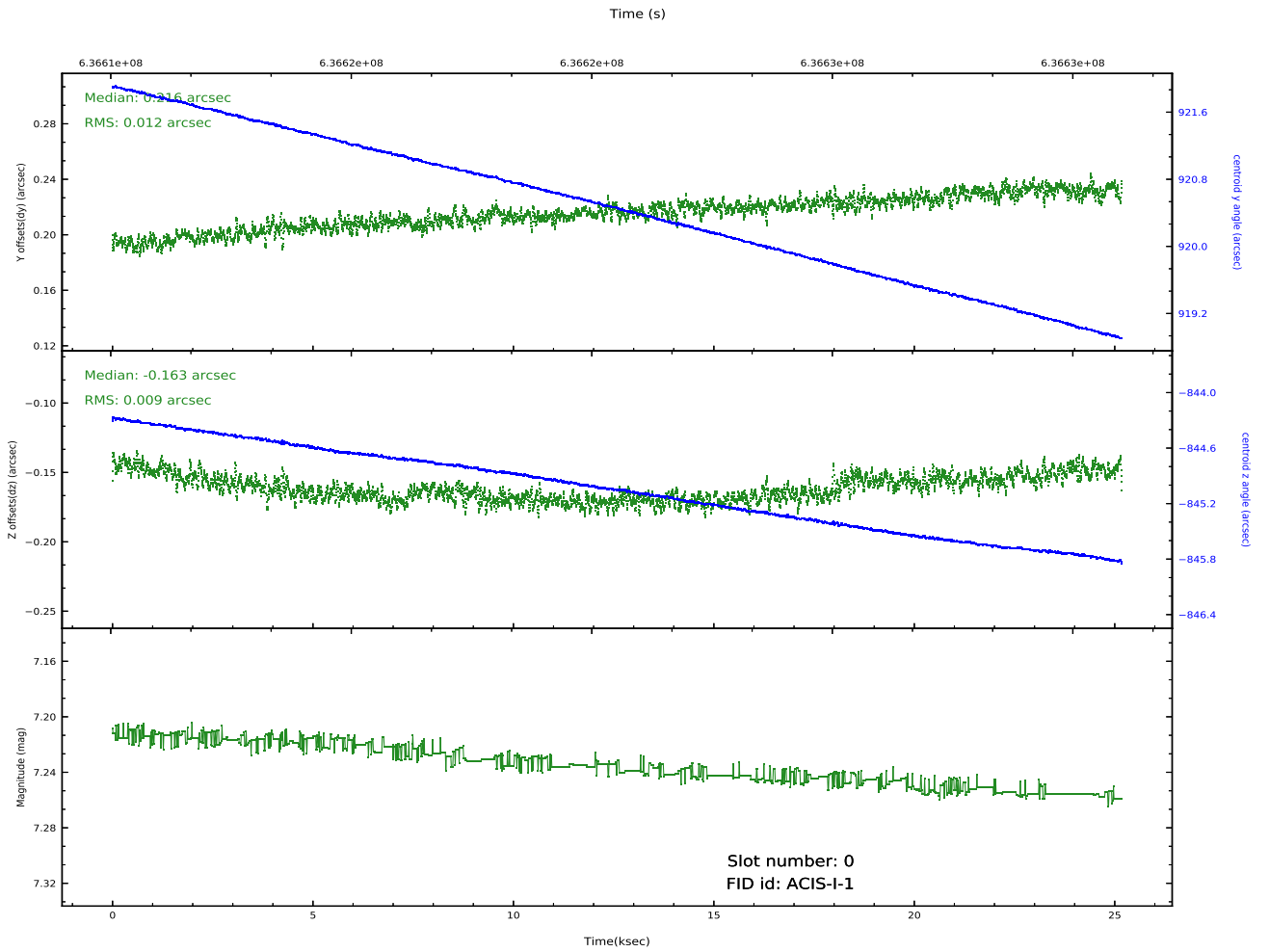
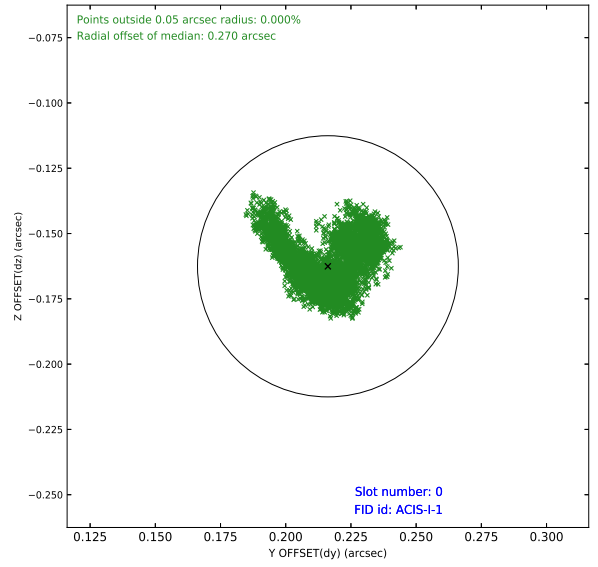
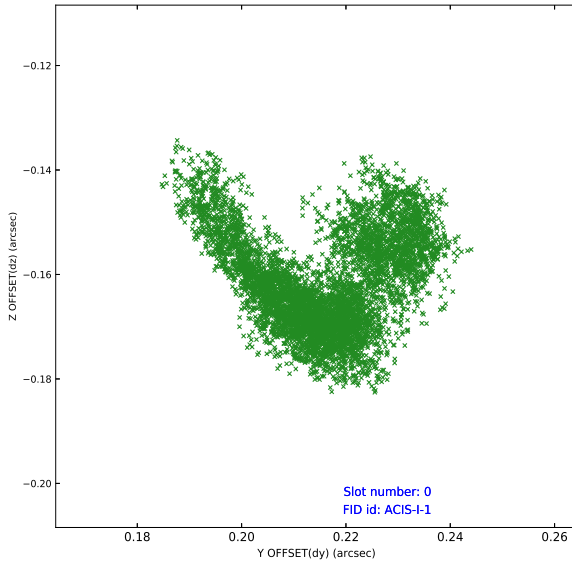


Time (s)

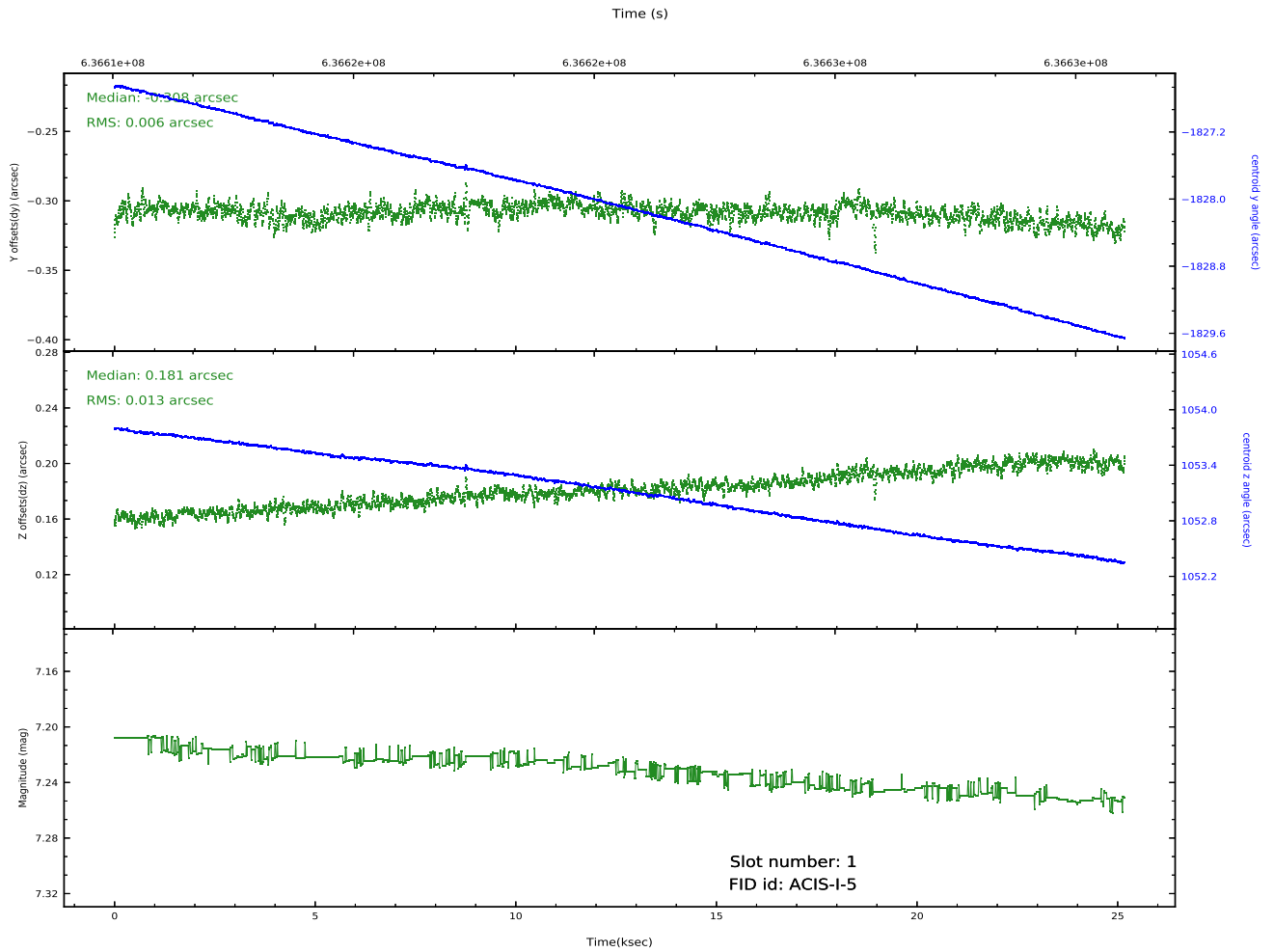
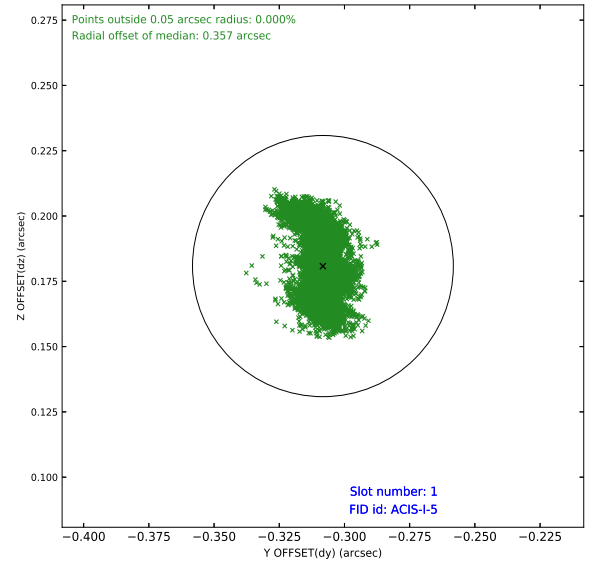
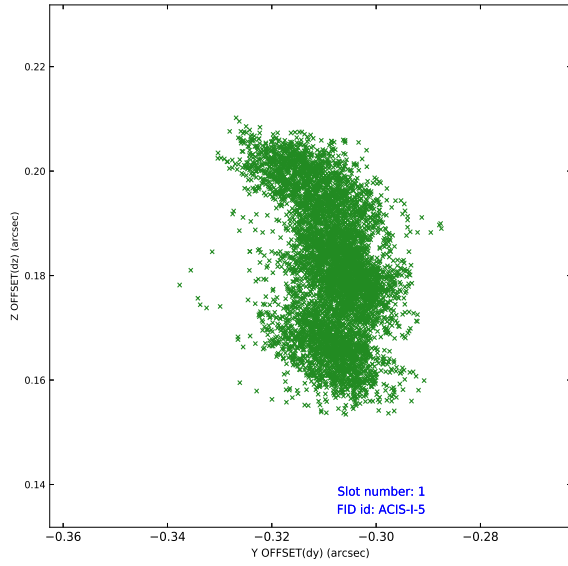


2.5 FID Slots

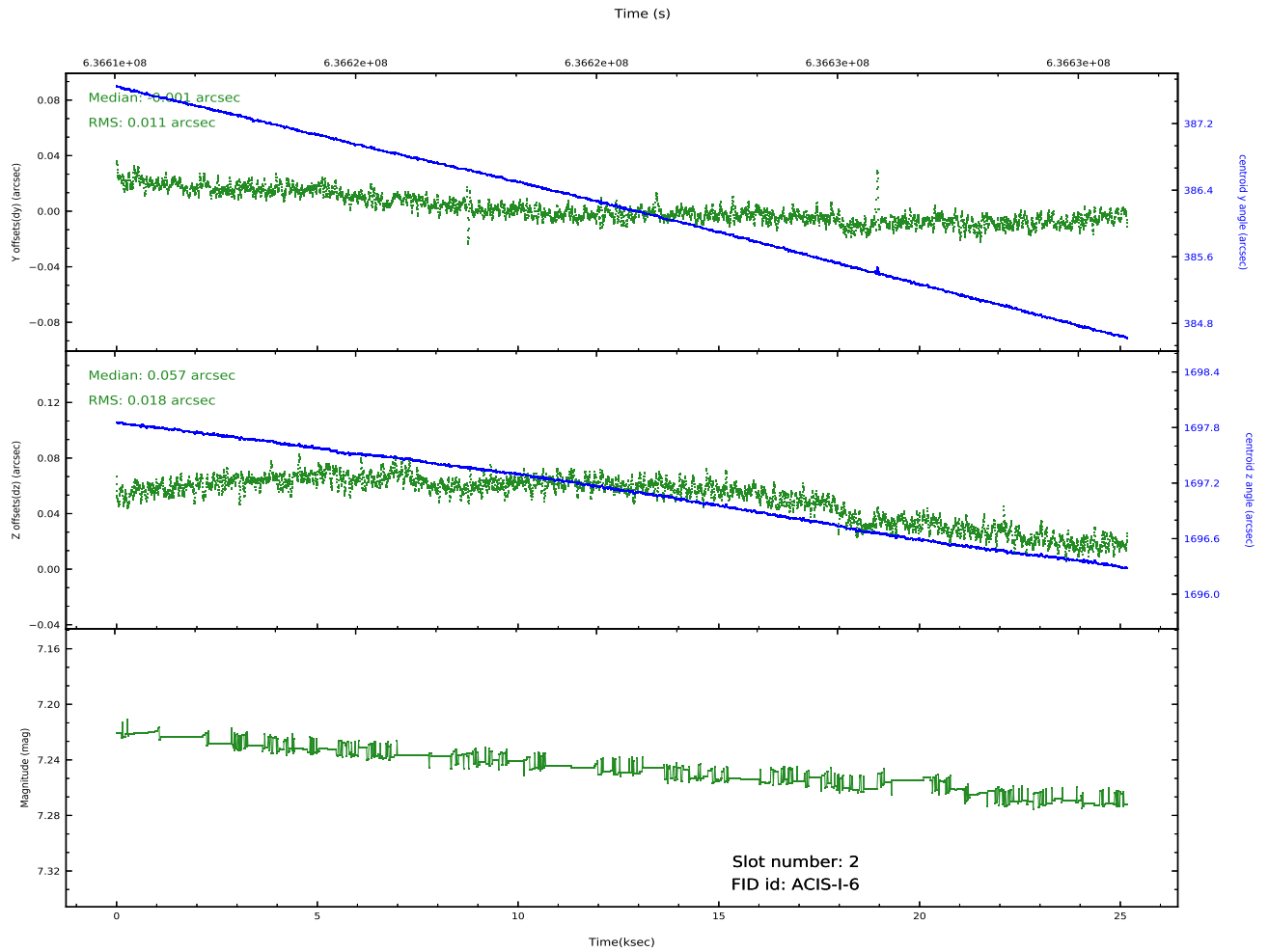
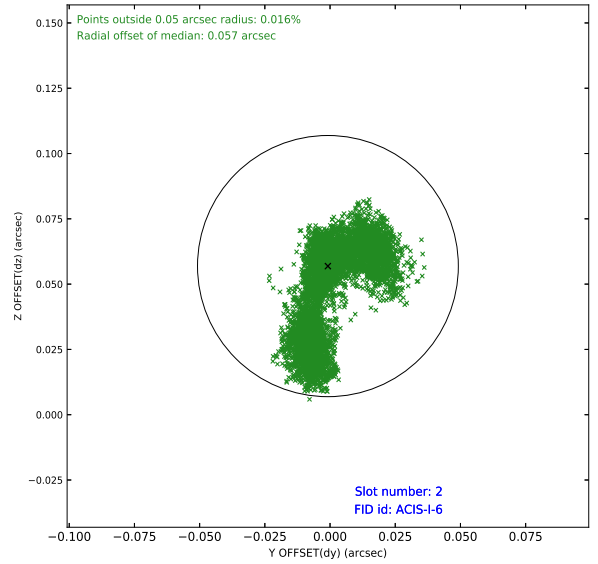
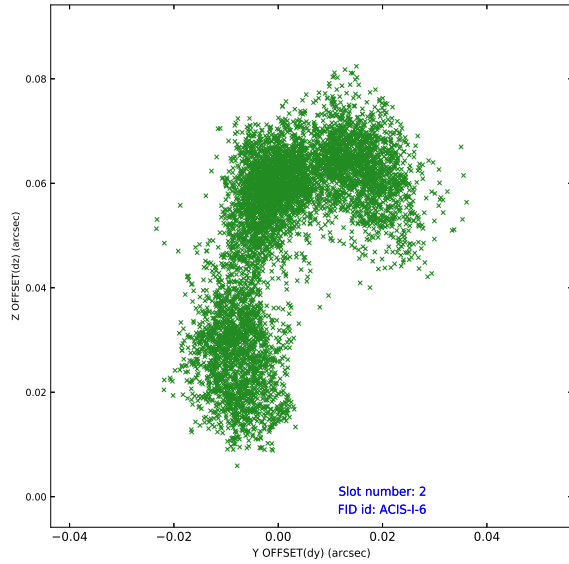
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.880477010608

A.2 Comments