

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5891 - L2 Version 4
Chandra X-Ray Center

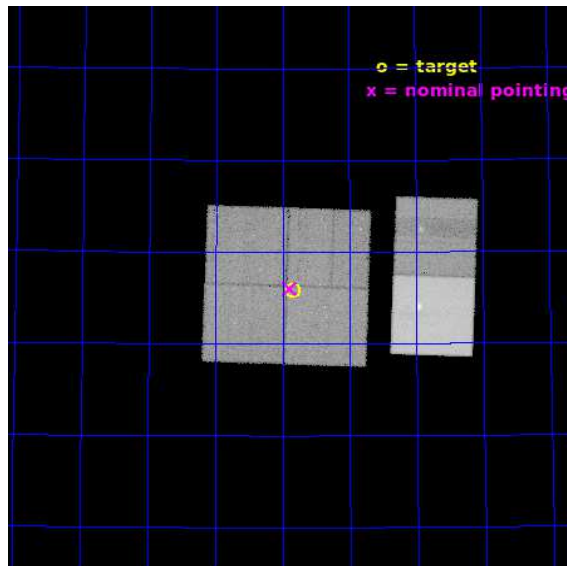
L2 Processing Date : Oct 9 2020

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1 Front

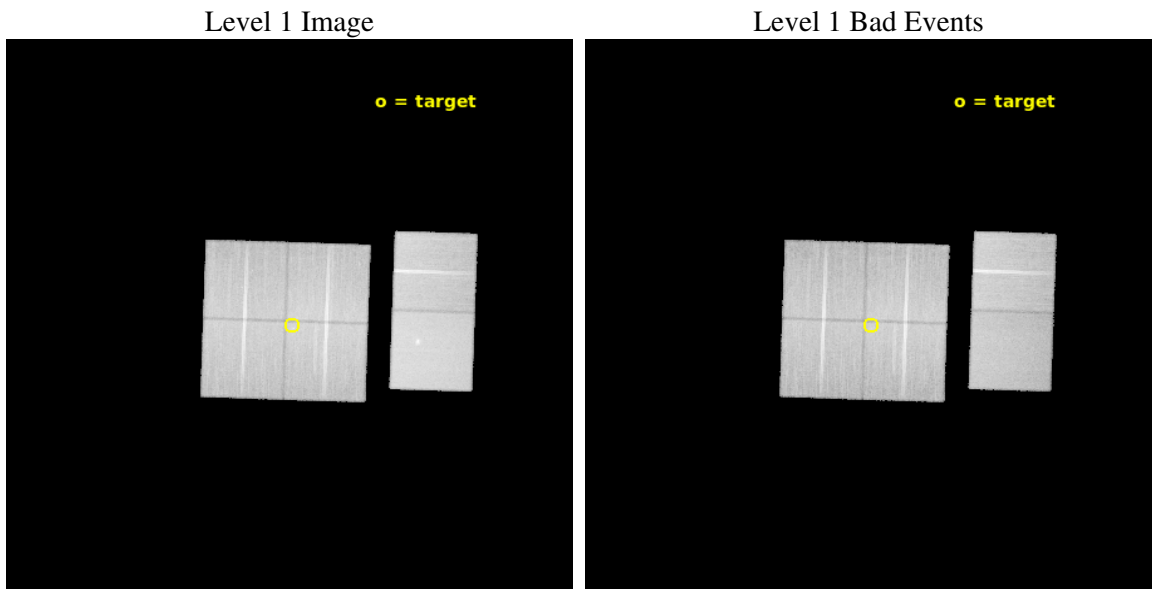
seq_num	900391	Sequence number
obs_id	5891	Observation id
title	Massive Star Life, Death, and Rebirth in the Perseus Arm	Proposal
observer	Leisa Townsley	Principal investigator
object	W3 North	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.711667	Observer's specified target RA [deg]
dec_targ	62.264444	Observer's specified target Dec [deg]
ra_nom	36.722564136891	Nominal RA [deg]
dec_nom	62.266858080257	Nominal Dec [deg]
roll_nom	91.922160781251	Nominal Roll [deg]
revision	4	Processing version of data
ontime	47155.158864051	Sum of GTIs [s]
livetime	46558.051849087	Livetime [s]
ontime0	47155.158854038	Sum of GTIs [s]
ontime1	47158.399824321	Sum of GTIs [s]
ontime2	47151.917883754	Sum of GTIs [s]
ontime3	47155.158864051	Sum of GTIs [s]
ontime6	47158.399824321	Sum of GTIs [s]
ontime7	47158.399824321	Sum of GTIs [s]
l2events	430690	Number of level 2 events



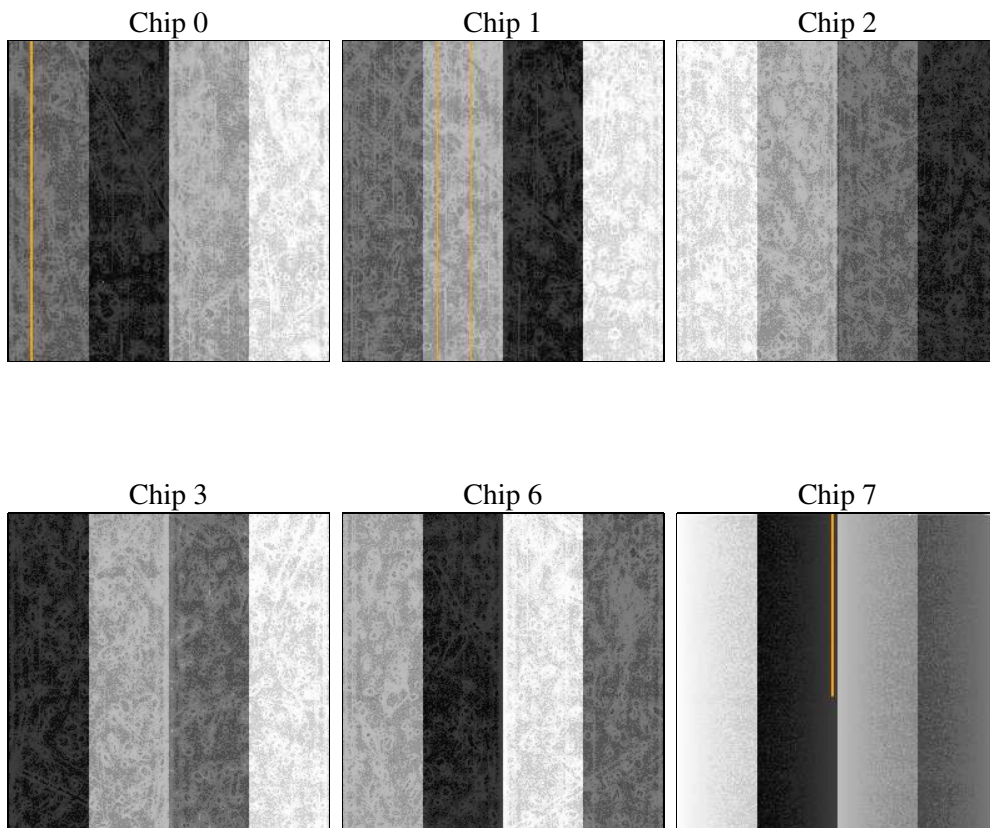
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	47032.045000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	47155.158864051	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	47155.158854038	Sum of GTIs [s]
date	2020-10-09T12:57:46	Date and time of file creation	ontime1	47158.399824321	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	47151.917883754	Sum of GTIs [s]
			ontime3	47155.158864051	Sum of GTIs [s]
			ontime6	47158.399824321	Sum of GTIs [s]
			ontime7	47158.399824321	Sum of GTIs [s]
			l1events	2158166	Number of level 1 events

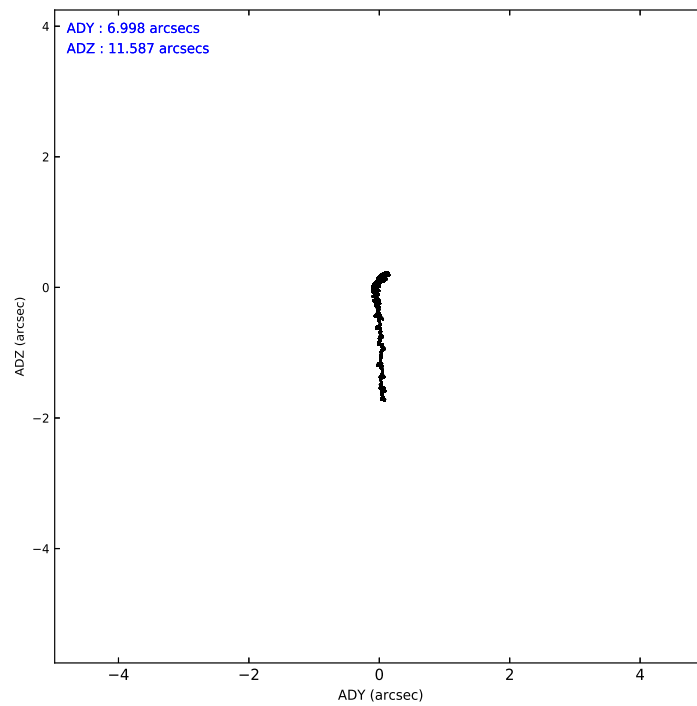
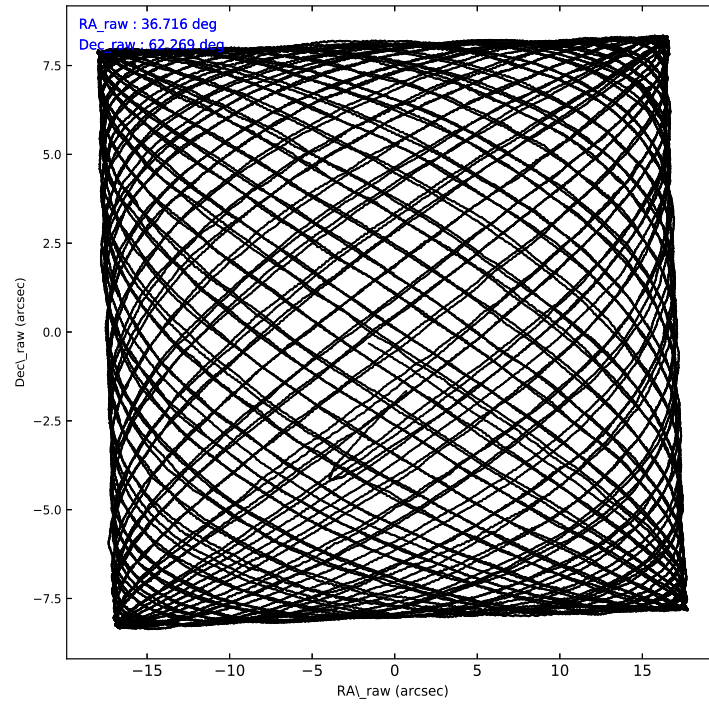
2.1.4 Events

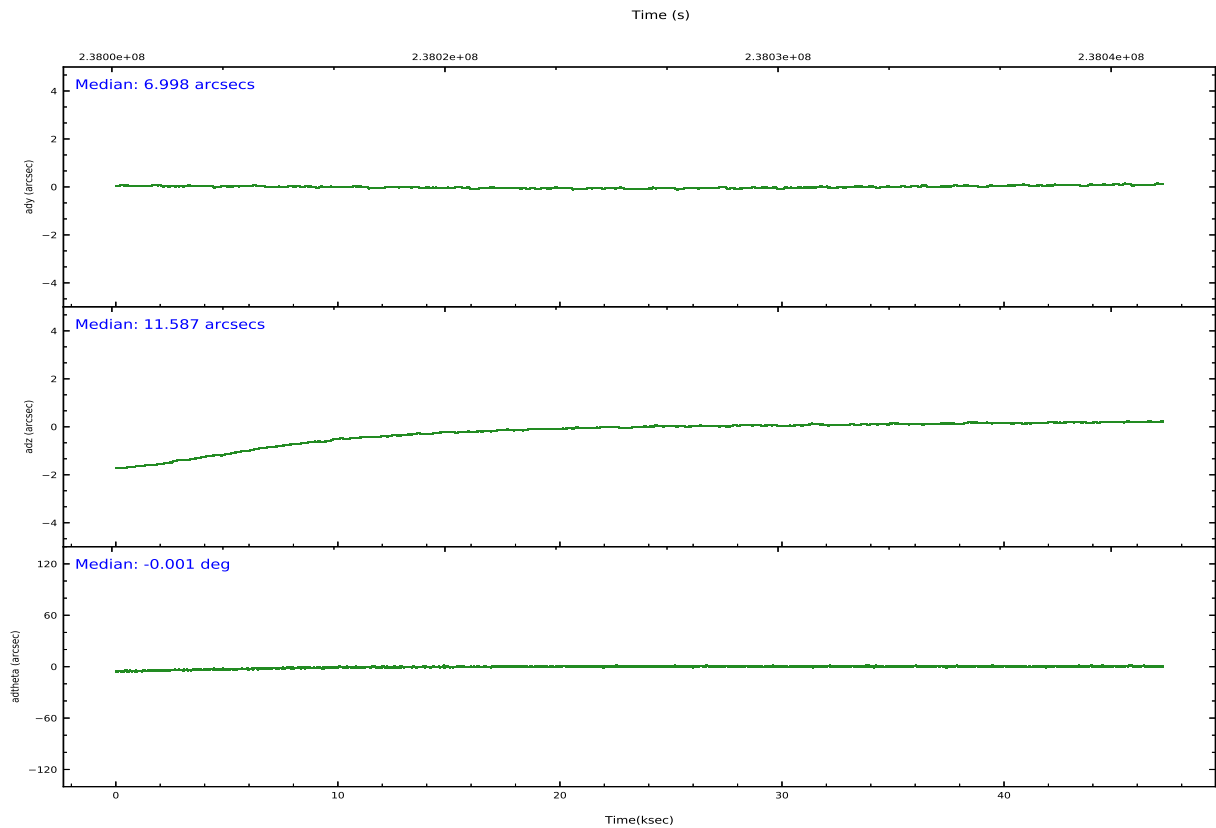
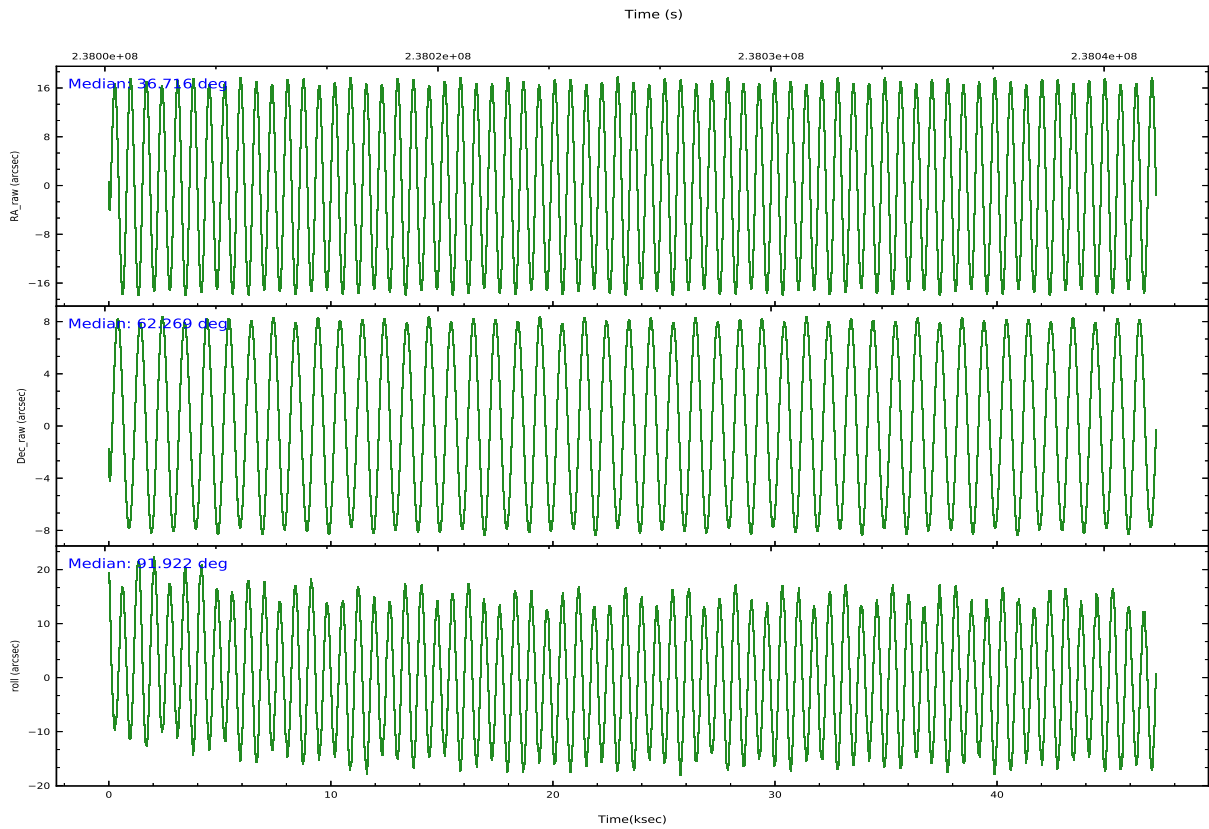
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	315199	323709	349471	342757	366523	460507	grade 0 events	24734	22756	26214	24875	23188	20299
rejected events	261597	269215	295113	290388	312877	253010		7%	7%	7%	7%	6%	4%
rejected %	82%	83%	84%	84%	85%	54%	grade 1 events	228	169	240	238	186	518
								0%	0%	0%	0%	0%	0%
							grade 2 events	12259	13032	11670	10684	12386	42570
								3%	4%	3%	3%	3%	9%
							grade 3 events	3991	4429	3803	4093	4109	18573
								1%	1%	1%	1%	1%	4%
							grade 4 events	3955	4231	4400	4034	4048	18460
								1%	1%	1%	1%	1%	4%
							grade 5 events	12995	13553	12463	14458	15222	41398
								4%	4%	3%	4%	4%	8%
							grade 6 events	8917	10322	8542	8909	10177	108539
								2%	3%	2%	2%	2%	23%
							grade 7 events	248120	255217	282139	275466	297207	210150
								78%	78%	80%	80%	81%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	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	36.746534	36.722564136891	Subarray requested	NONE	NONE
[deg] Pointing Dec	62.245585	62.266858080257	Alternating exposures requested	N	N
[deg] Pointing Roll	91.690212	91.92216078125099	[s] Primary exposure time	0.000000	3.2
[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)	238000310.184000	237999158.11265			
Observation start date	2005-07-17T15:10:46	2005-07-17T14:52:38			
[s] Observation end time (MET)	238047342.184000	238047566.81487			
Observation end date	2005-07-18T04:14:38	2005-07-18T04:19:26			
Read mode	TIMED	TIMED			

2.3 Aspect





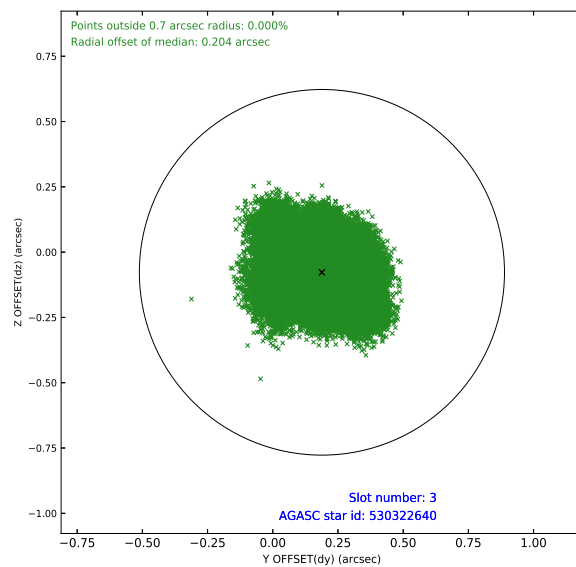
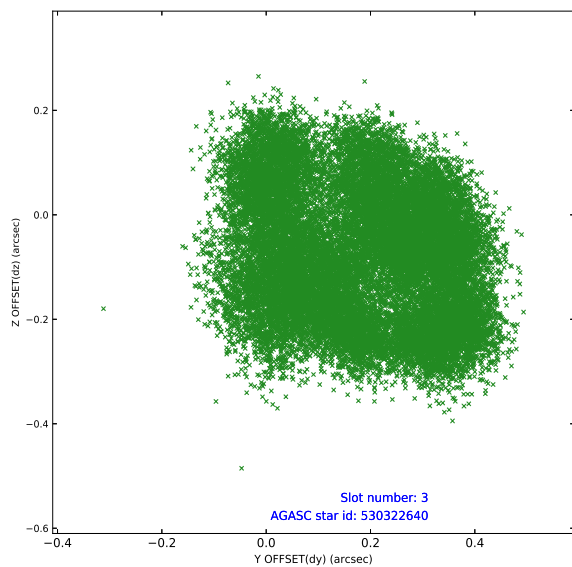
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.24	11502	1.000	0.054	-0.045	0.011	0.052	0.000000	0.000000	932.72	-834
1	FID		ACIS-I-5	7.23	11503	1.000	-0.208	0.053	0.010	0.034	0.000000	0.000000	-1815.63	1062
2	FID		ACIS-I-6	7.25	11500	1.000	0.064	0.064	0.011	0.026	0.000000	0.000000	398.33	1707
3	GUIDE	used	530322640	8.87	23001	1.000	0.188	-0.077	0.207	0.283	35.878914	61.773652	-1644.76	1526
4	GUIDE	used	530852736	7.85	22945	1.000	0.062	0.021	0.065	0.104	37.086329	62.219010	-110.48	-567
5	GUIDE	used	530862896	8.90	23002	1.000	0.010	-0.114	0.091	0.142	35.753276	62.216485	-42.95	1668
6	GUIDE	used	530330080	8.81	22997	1.000	-0.009	0.034	0.094	0.147	37.987862	61.612207	-2321.23	-2056
7	GUIDE	used	530850752	7.41	23006	1.000	-0.250	0.137	0.078	0.122	36.960051	62.890600	2310.97	-418

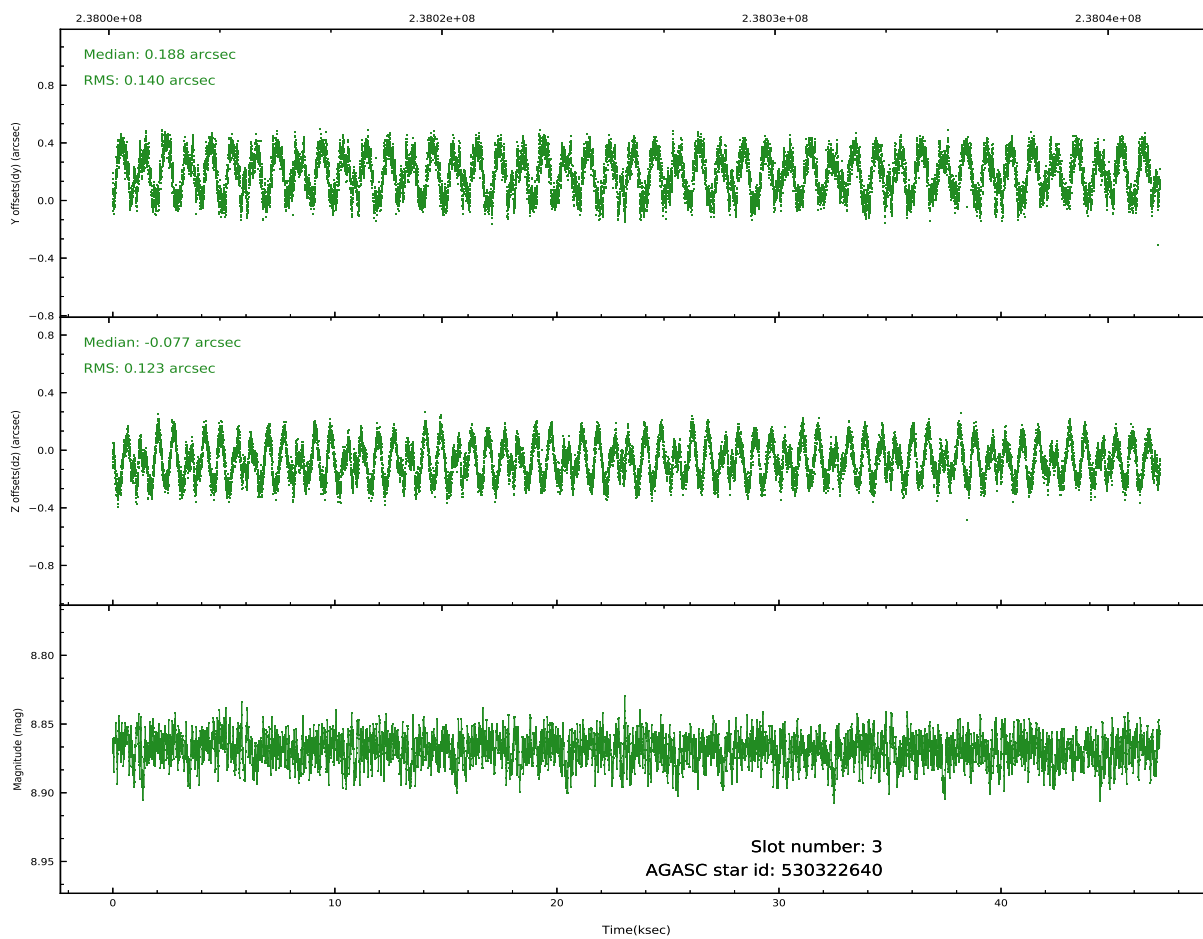
∞

2.4 Star Slots

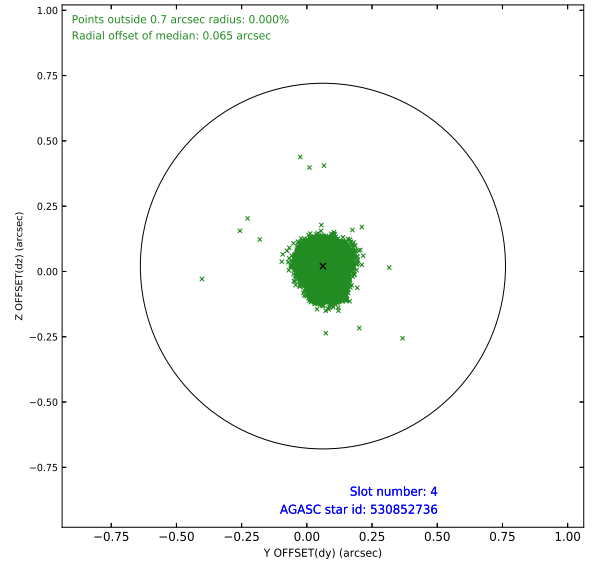
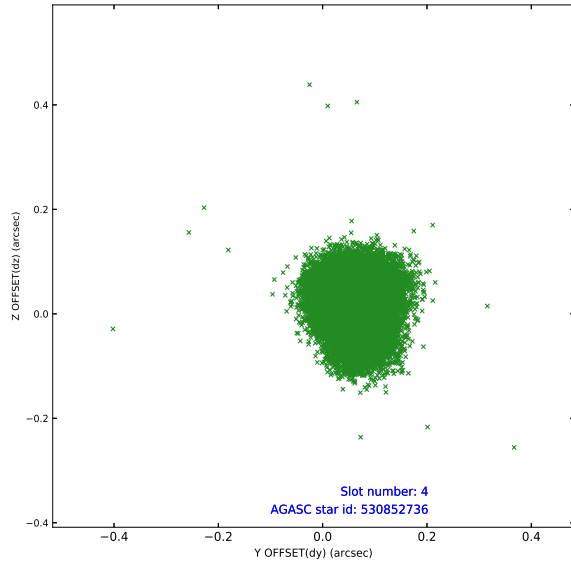
2.4.1 Slot 3



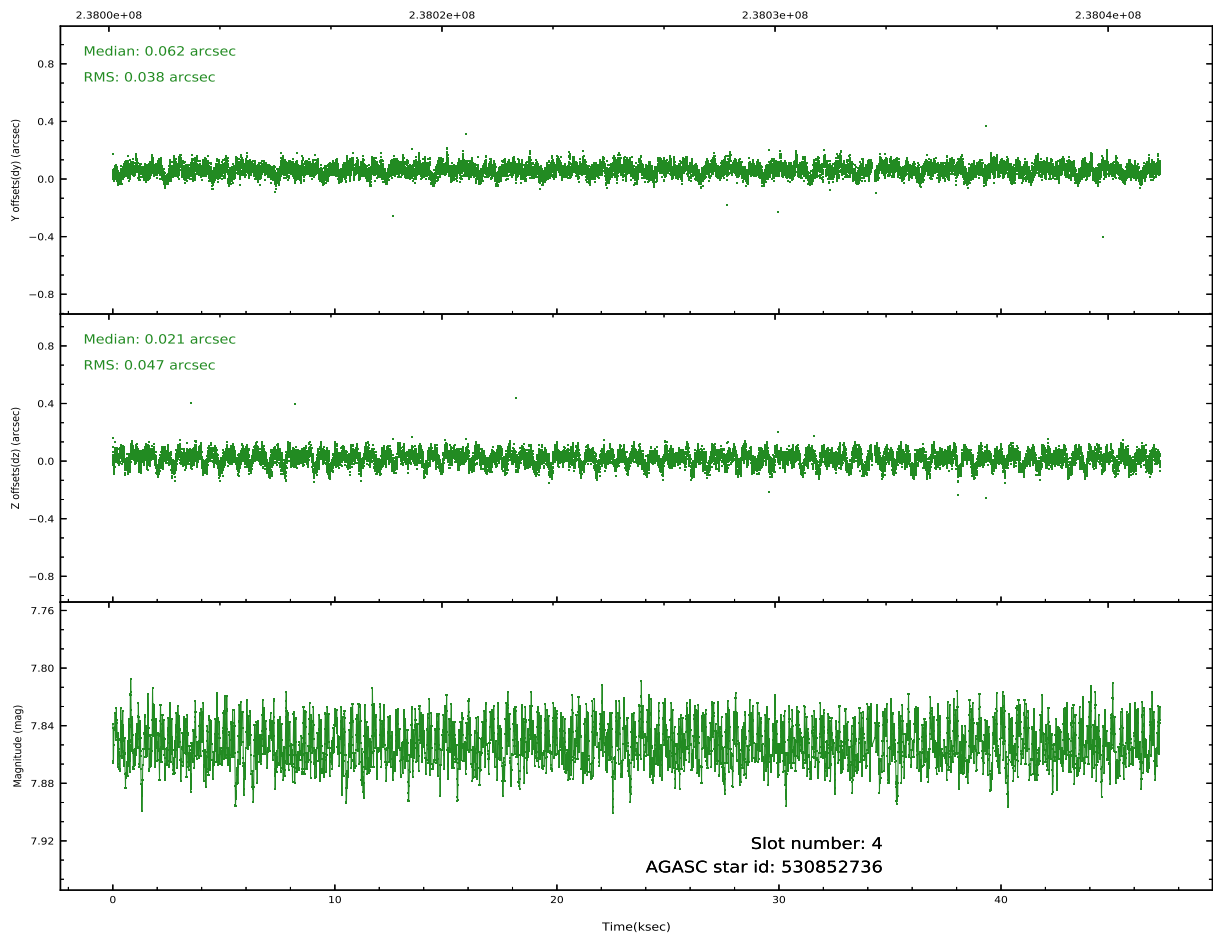
Time (s)



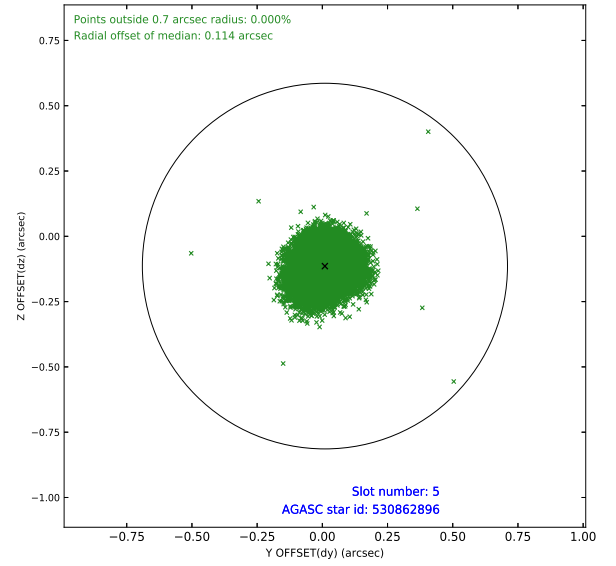
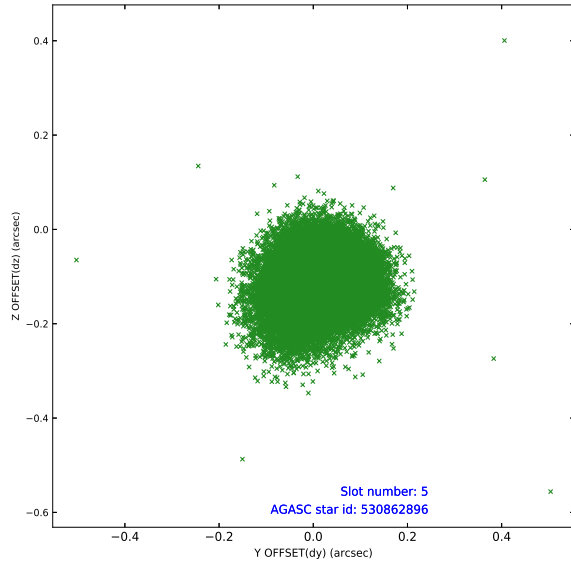
2.4.2 Slot 4



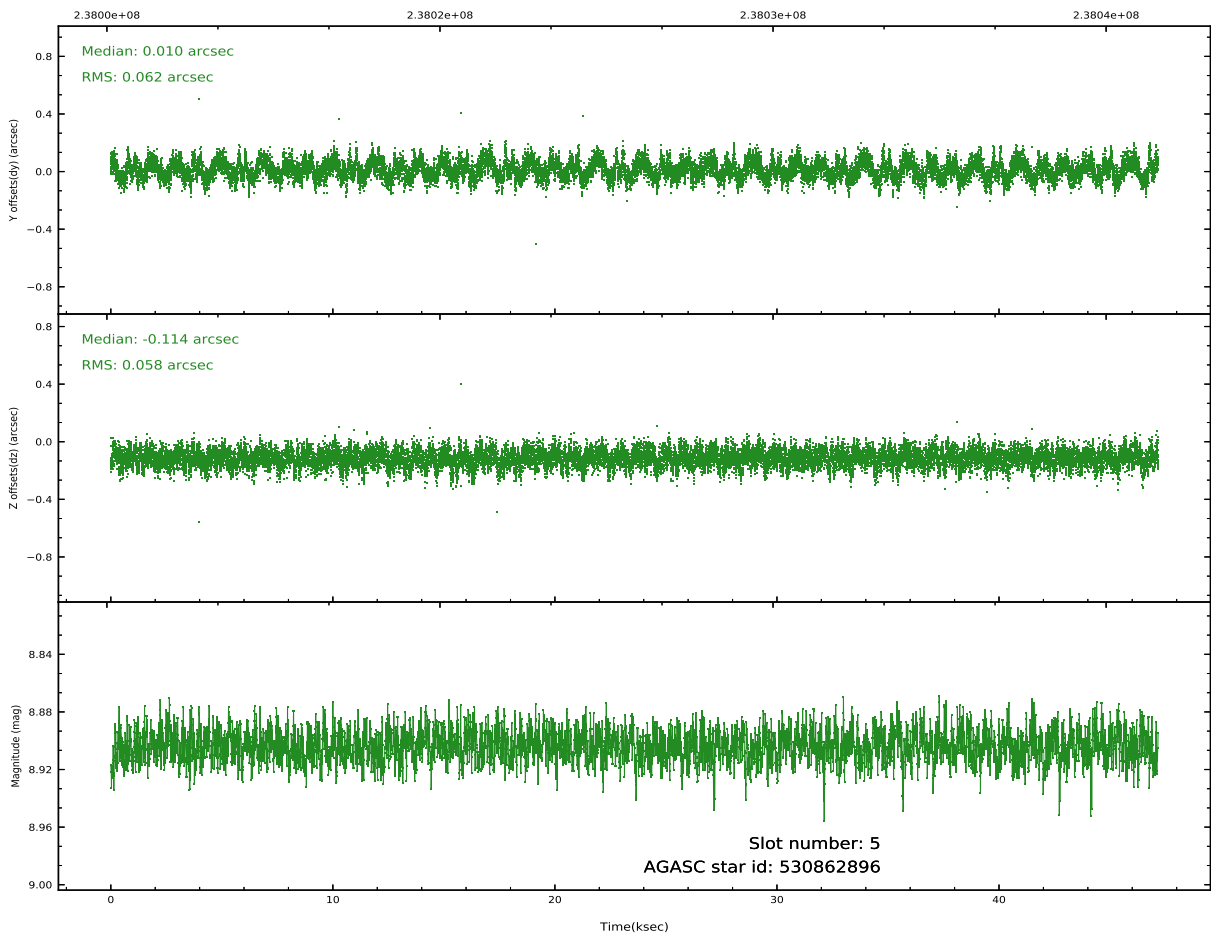
Time (s)



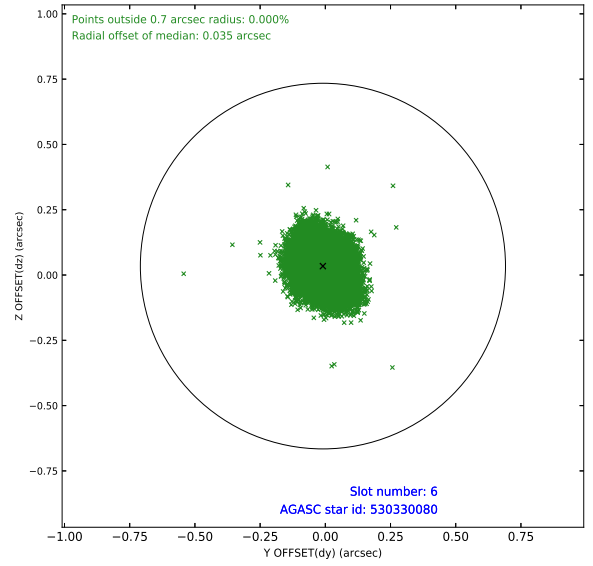
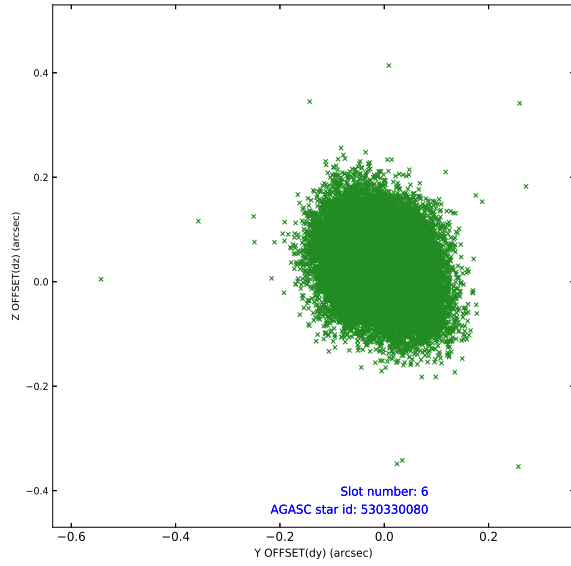
2.4.3 Slot 5



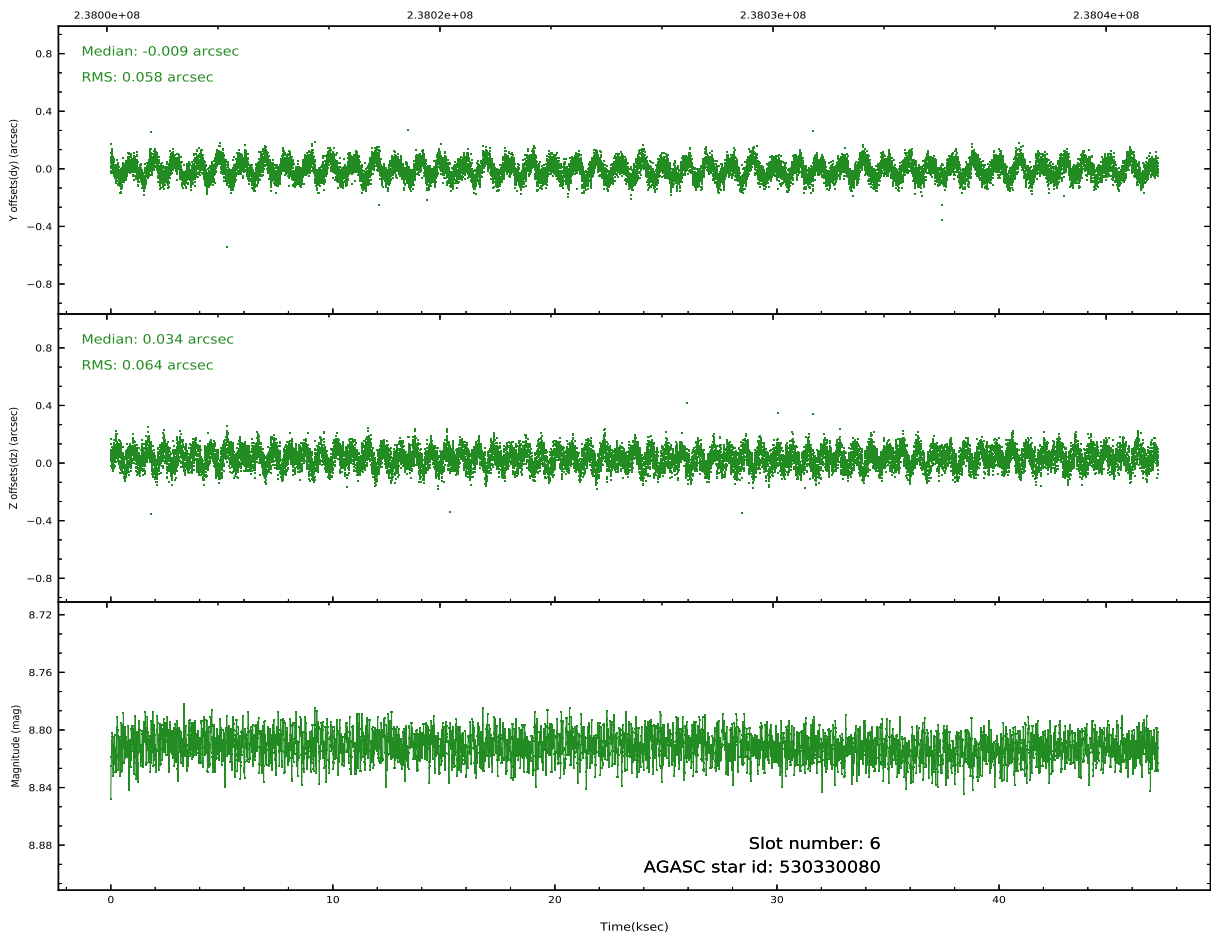
Time (s)



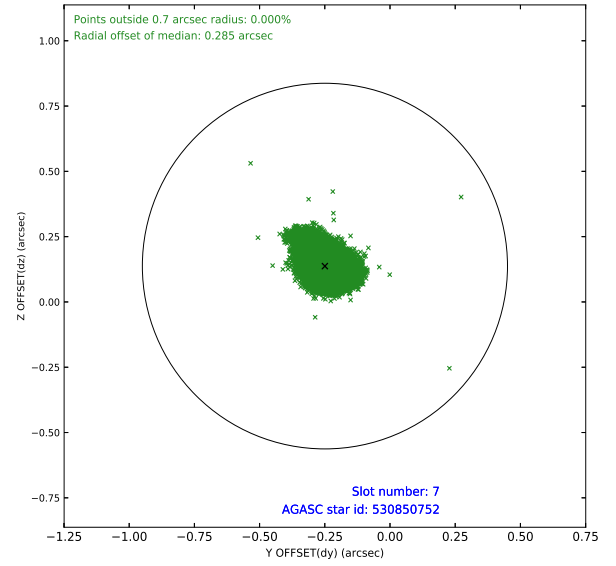
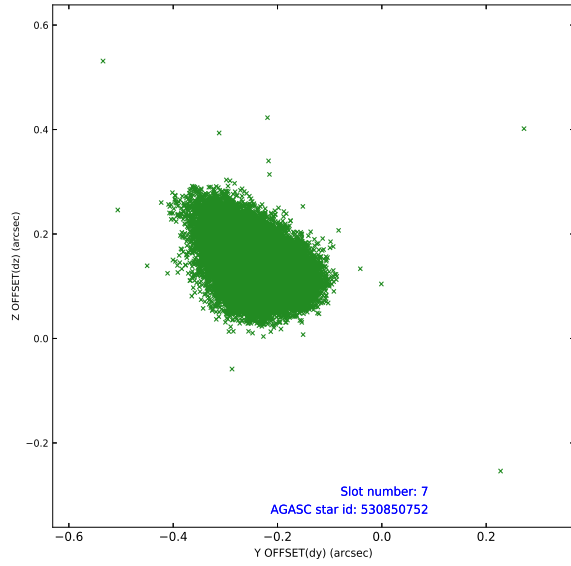
2.4.4 Slot 6



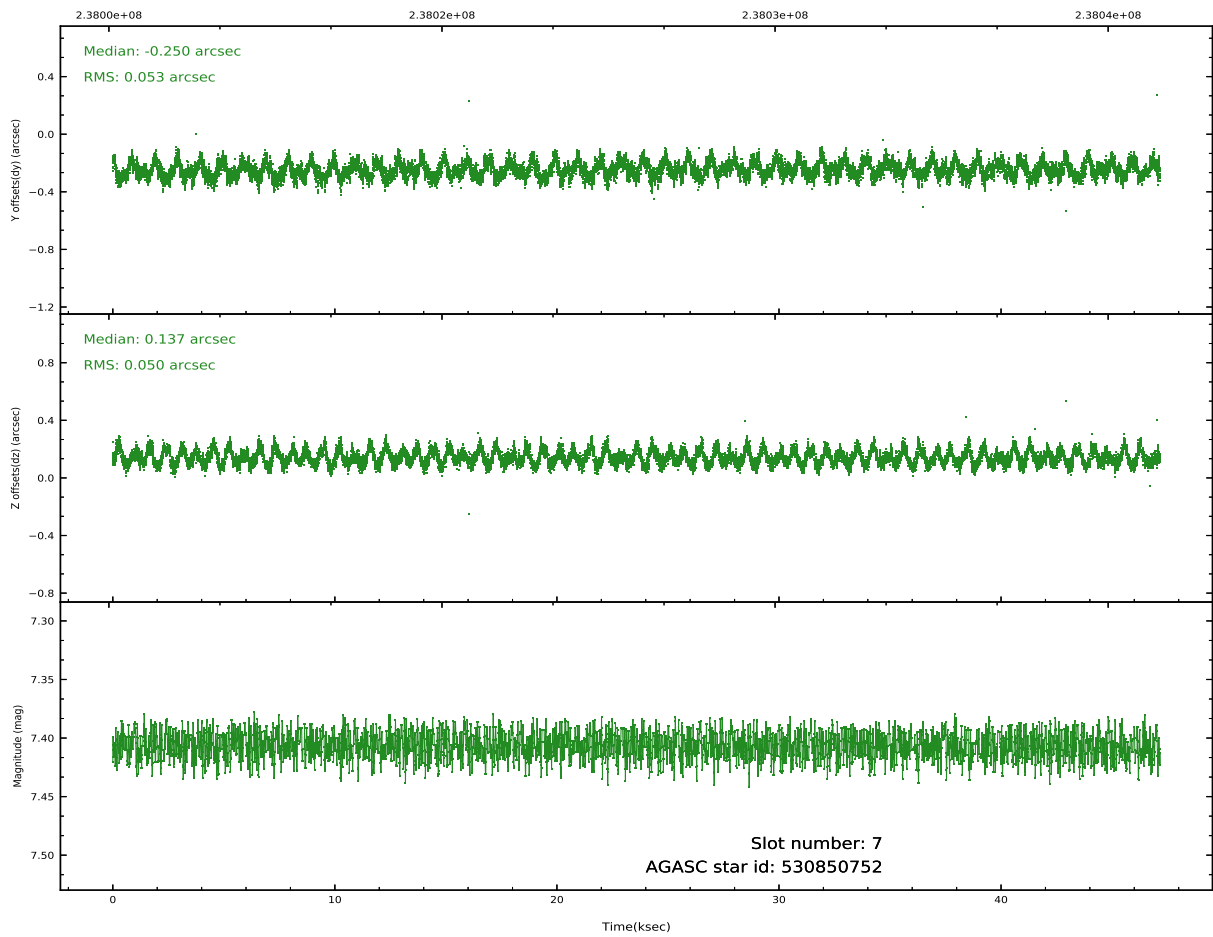
Time (s)



2.4.5 Slot 7

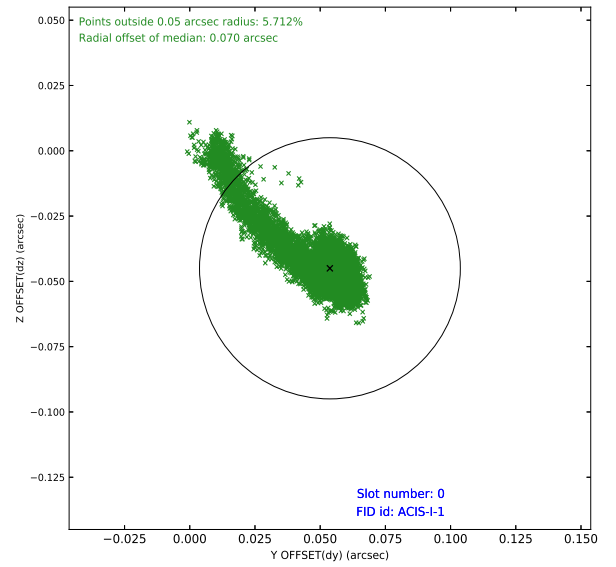
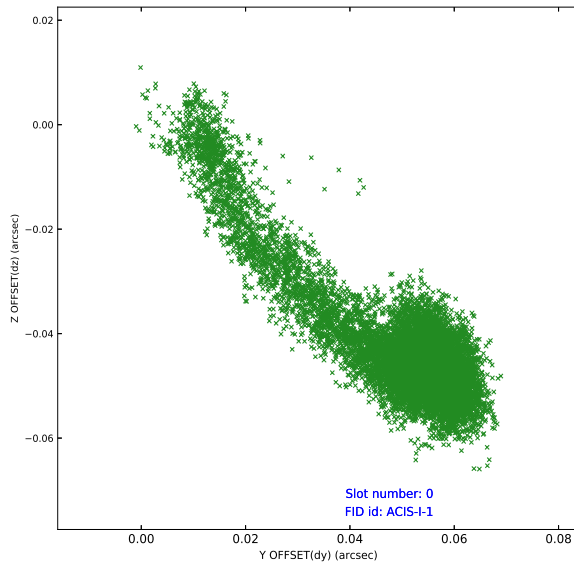


Time (s)

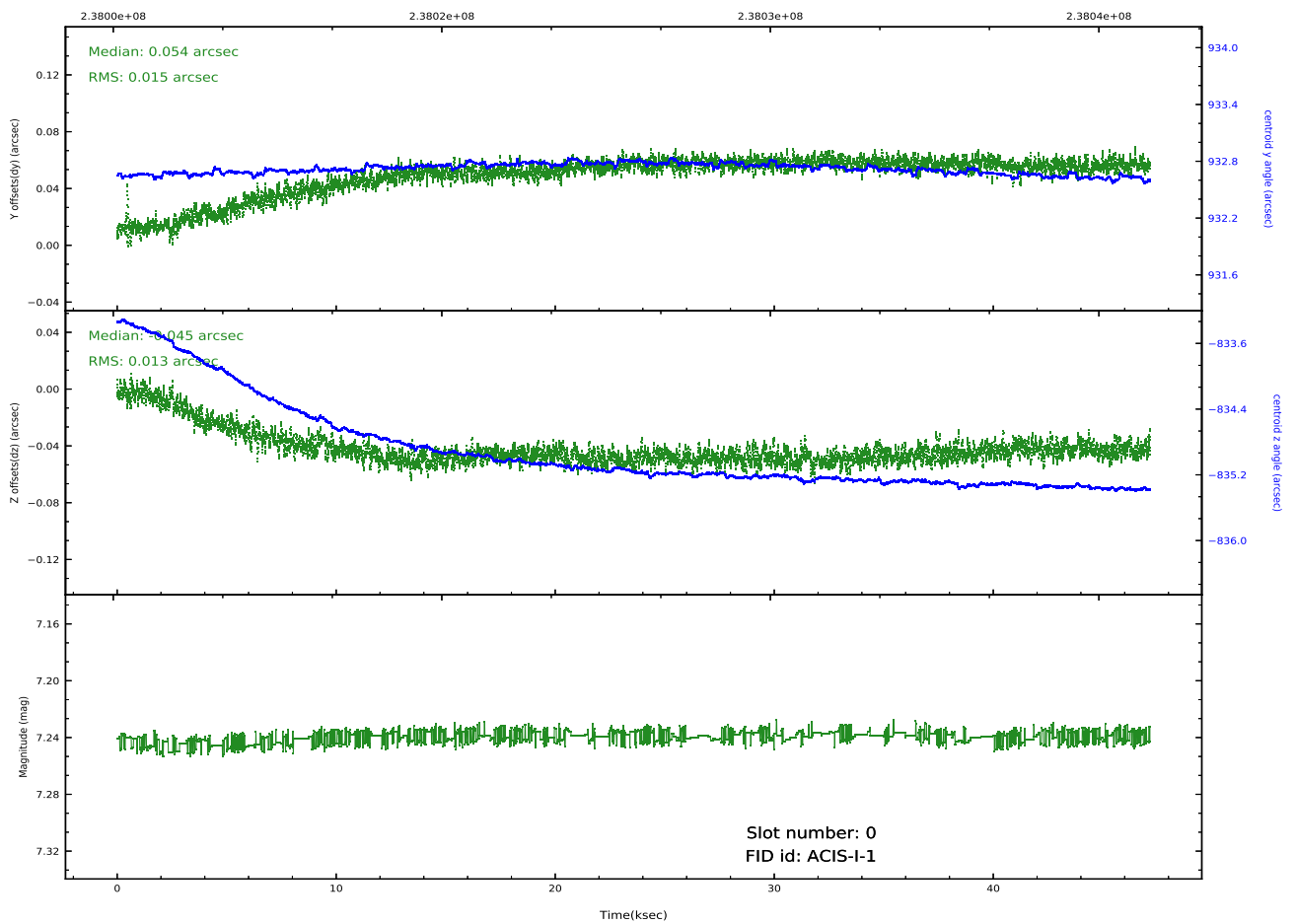


2.5 FID Slots

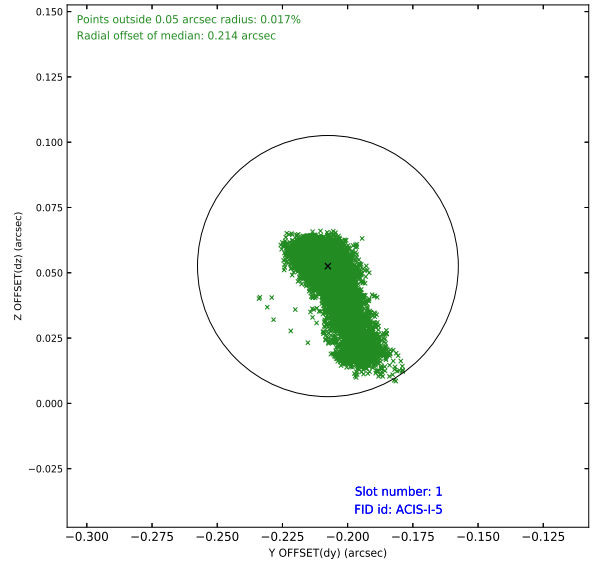
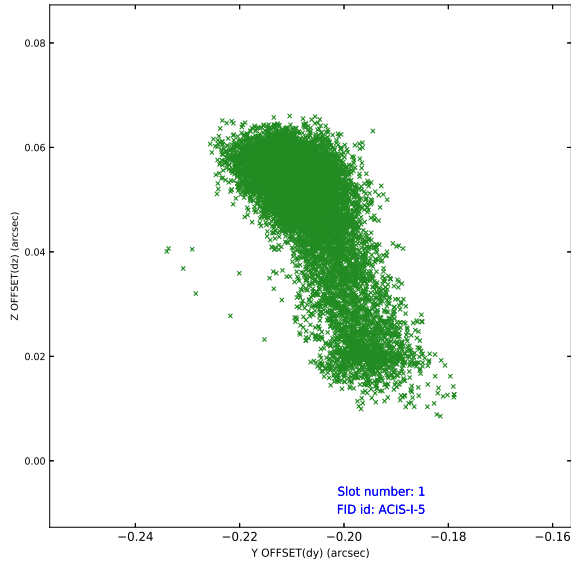
2.5.1 Slot 0



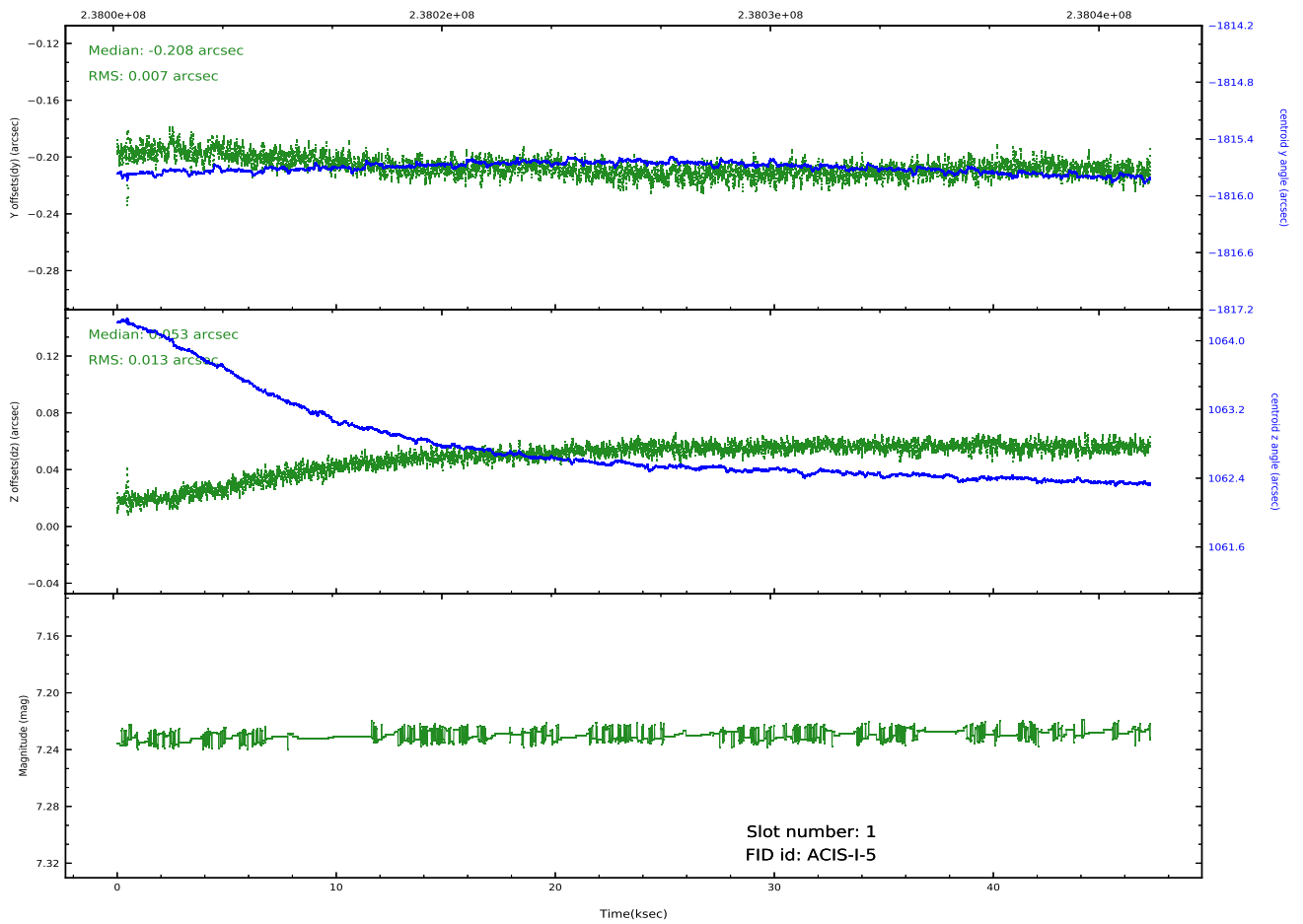
Time (s)



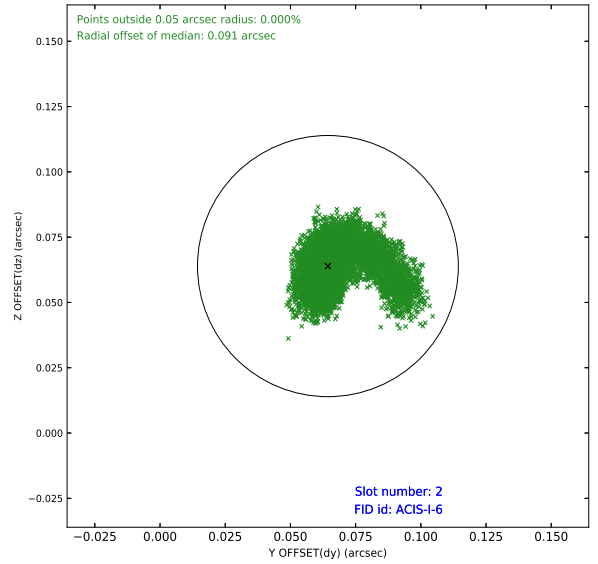
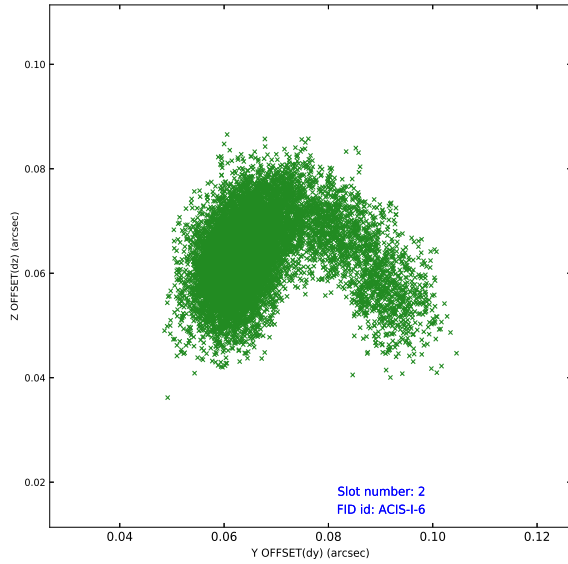
2.5.2 Slot 1



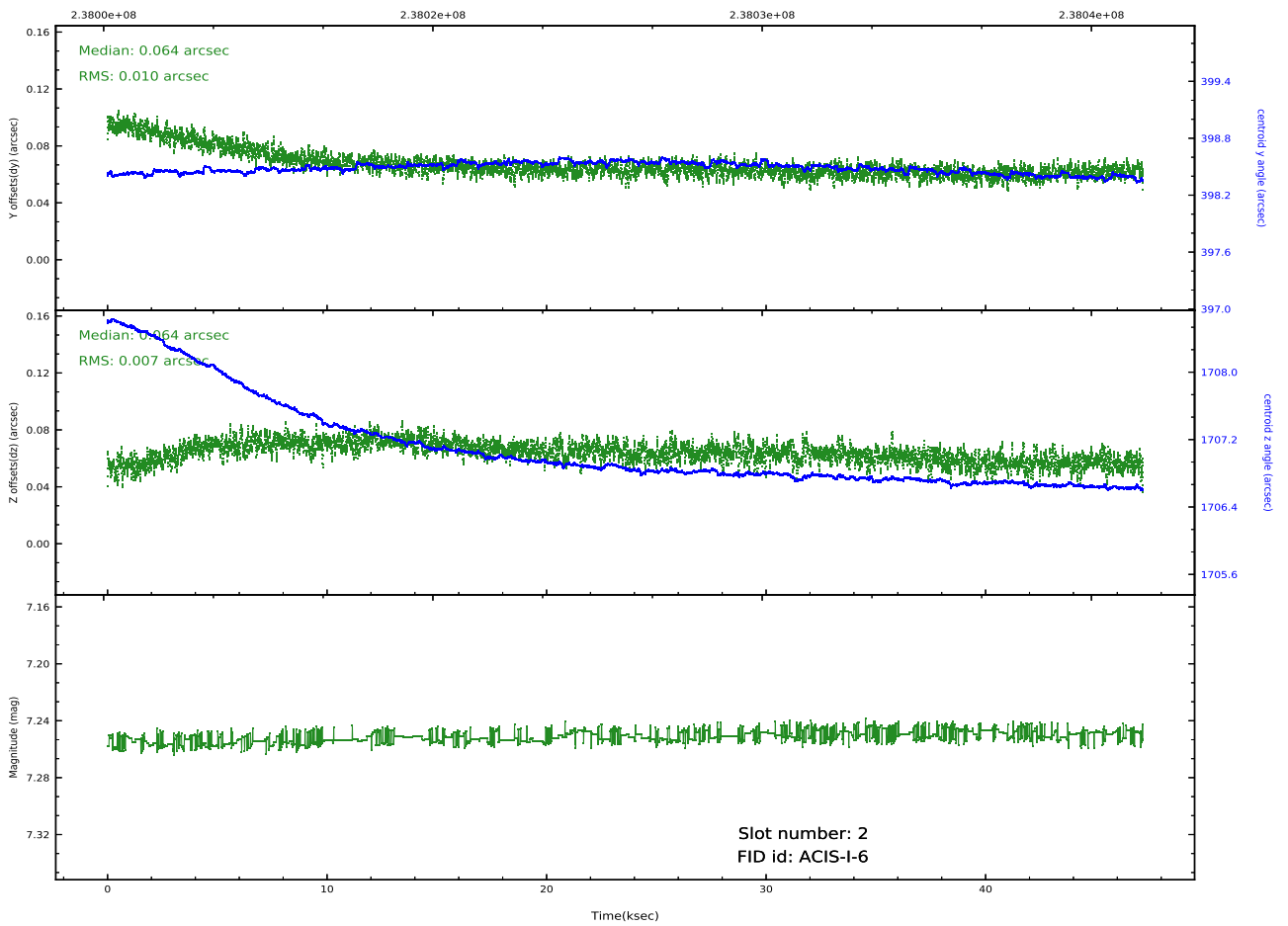
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.15515

A.2 Comments

Joint Proposal: XMM