

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5784 - L2 Version 4
Chandra X-Ray Center

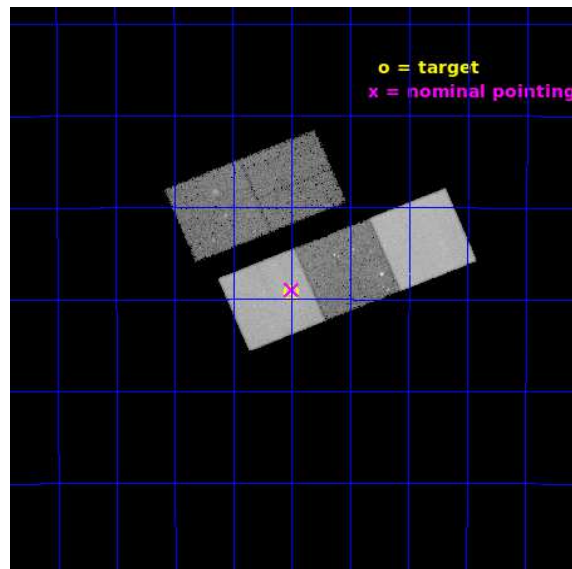
L2 Processing Date : Oct 7 2020

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1 Front

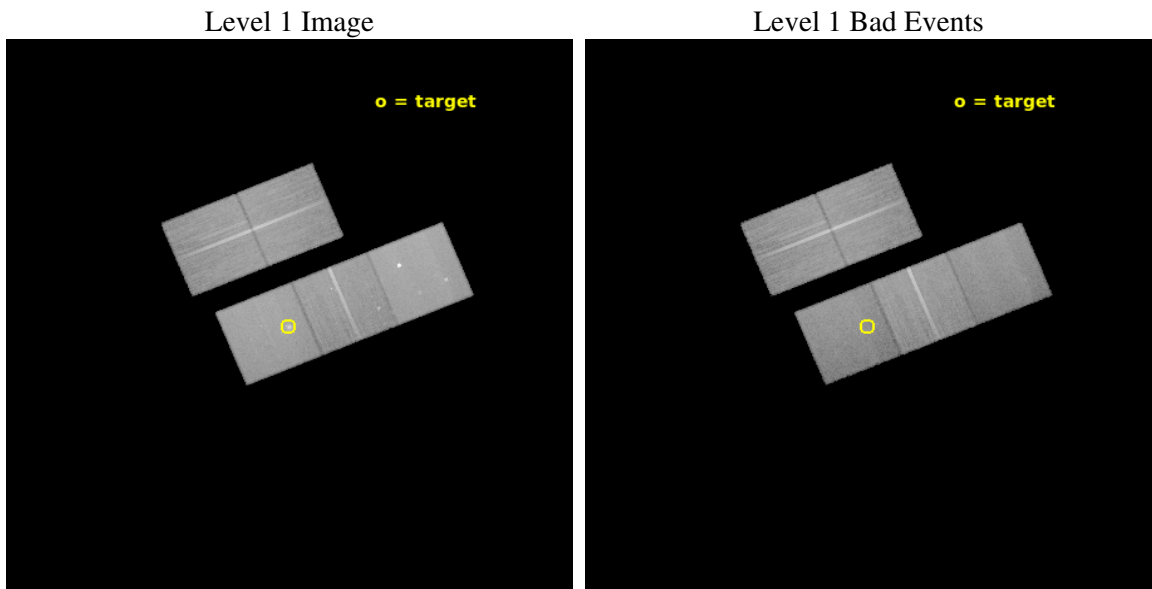
seq_num	800497	Sequence number
obs_id	5784	Observation id
title	Fossil groups in the local Universe	Proposal title
observer	Dr Alastair Sanderson	Principal investigator
object	ESO 351-021	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	13.749583	Observer's specified target RA [deg]
dec_targ	-35.321389	Observer's specified target Dec [deg]
ra_nom	13.74945015759	Nominal RA [deg]
dec_nom	-35.31591880373	Nominal Dec [deg]
roll_nom	157.47737950911	Nominal Roll [deg]
revision	4	Processing version of data
ontime	40017.899923027	Sum of GTIs [s]
livetime	39495.036599783	Livetime [s]
ontime2	40014.758952767	Sum of GTIs [s]
ontime3	40005.336042106	Sum of GTIs [s]
ontime5	40017.899923027	Sum of GTIs [s]
ontime6	40014.758932859	Sum of GTIs [s]
ontime7	40017.899923027	Sum of GTIs [s]
l2events	360950	Number of level 2 events



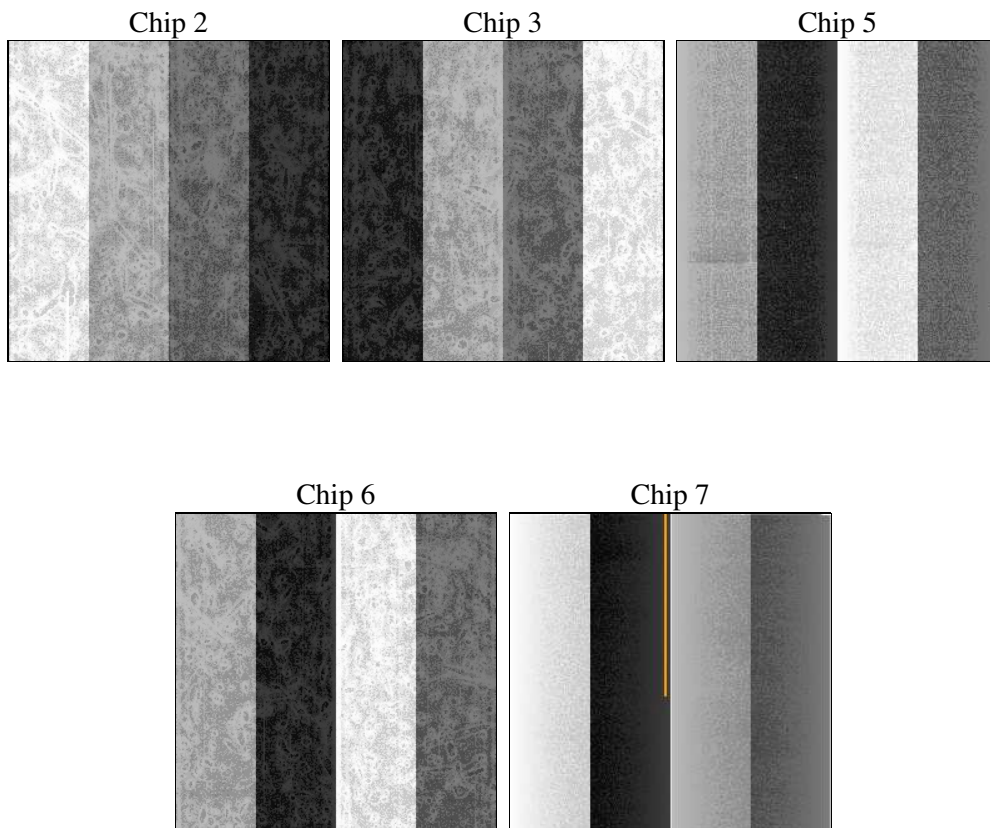
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	39841.864000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	40017.899923027	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	40014.758952767	Sum of GTIs [s]
date	2020-10-08T00:05:41	Date and time of file creation	ontime3	40005.336042106	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	40017.899923027	Sum of GTIs [s]
			ontime6	40014.758932859	Sum of GTIs [s]
			ontime7	40017.899923027	Sum of GTIs [s]
			l1events	1430373	Number of level 1 events

2.1.4 Events

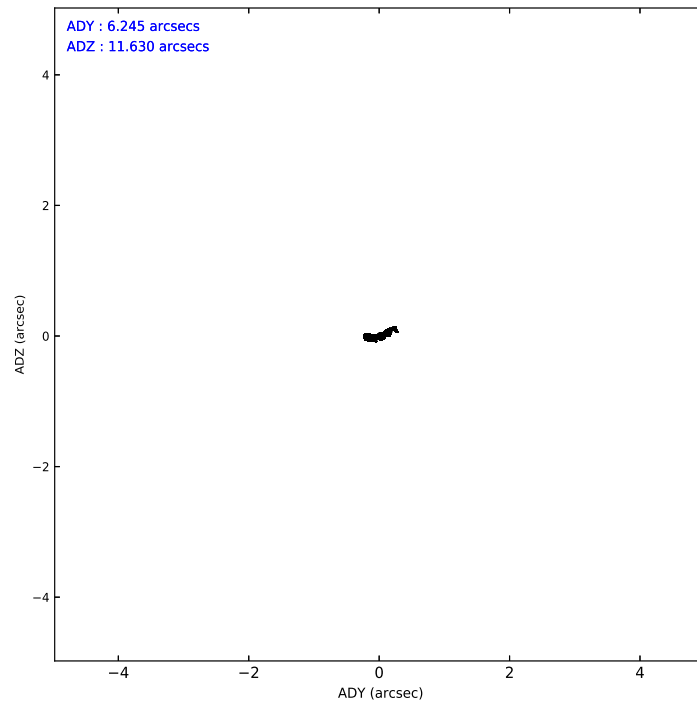
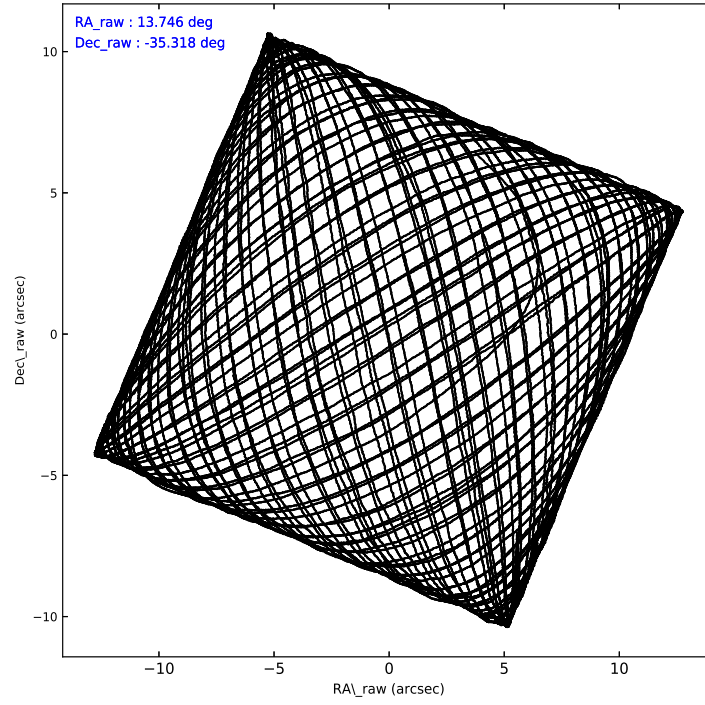
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	264148	255185	353379	262039	295622
rejected events	239621	230969	177052	232305	157190
rejected %	90%	90%	50%	88%	53%

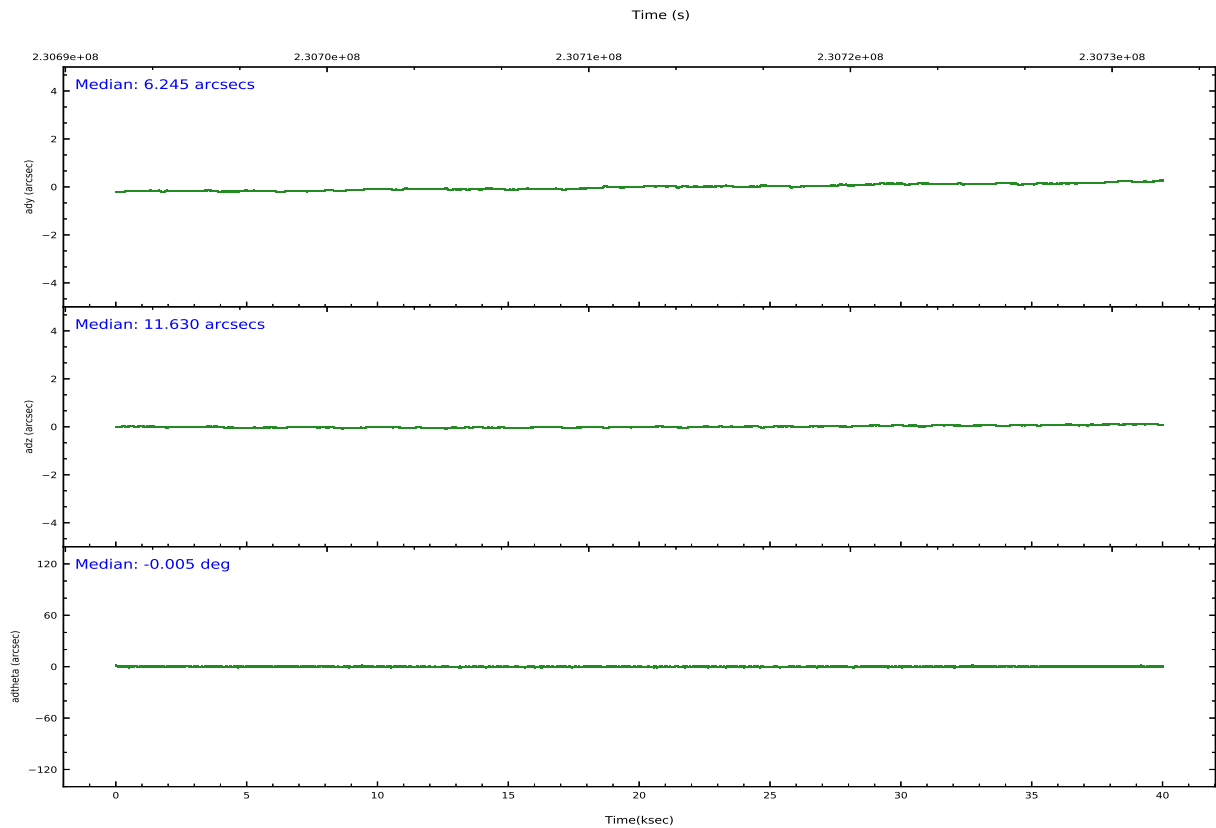
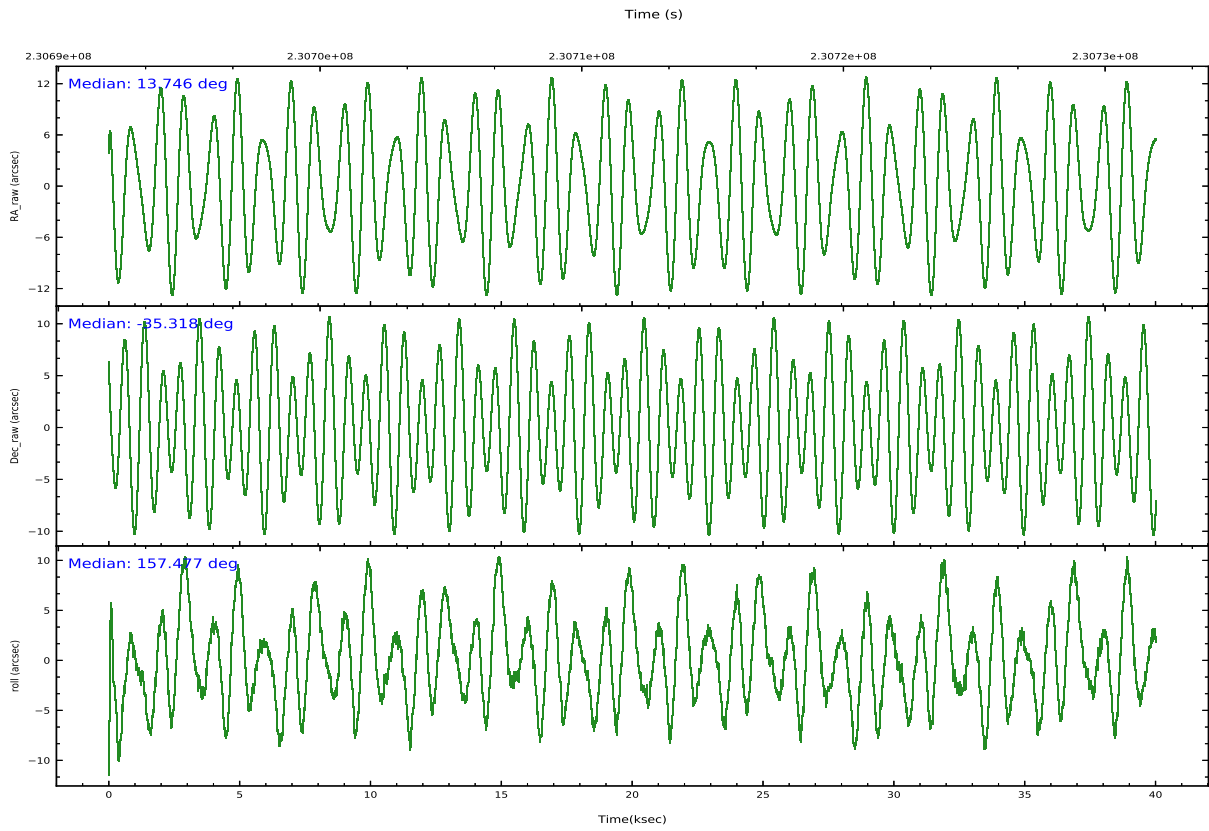
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	9193	8875	18401	12135	14592
	3%	3%	5%	4%	4%
grade 1 events	138	128	357	139	284
	0%	0%	0%	0%	0%
grade 2 events	5694	5211	53742	5989	28551
	2%	2%	15%	2%	9%
grade 3 events	2735	2788	8042	3179	13489
	1%	1%	2%	1%	4%
grade 4 events	2743	2727	7859	2994	13311
	1%	1%	2%	1%	4%
grade 5 events	8338	9870	28642	10364	30410
	3%	3%	8%	3%	10%
grade 6 events	4417	4858	90212	5752	69827
	1%	1%	25%	2%	23%
grade 7 events	230890	220728	146124	221487	125158
	87%	86%	41%	84%	42%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23567	ACIS-23567	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	13.778844	13.74945015759	Subarray requested	NONE	NONE
[deg] Pointing Dec	-35.314379	-35.31591880373	Alternating exposures requested	N	N
[deg] Pointing Roll	157.339741	157.47737950911	[s] Primary exposure time	0.000000	3.1
[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)	230692109.184000	230690907.26672			
Observation start date	2005-04-24T01:07:25	2005-04-24T00:48:27			
[s] Observation end time (MET)	230731950.184000	230732174.7936			
Observation end date	2005-04-24T12:11:26	2005-04-24T12:16:14			
Read mode	TIMED	TIMED			

2.3 Aspect





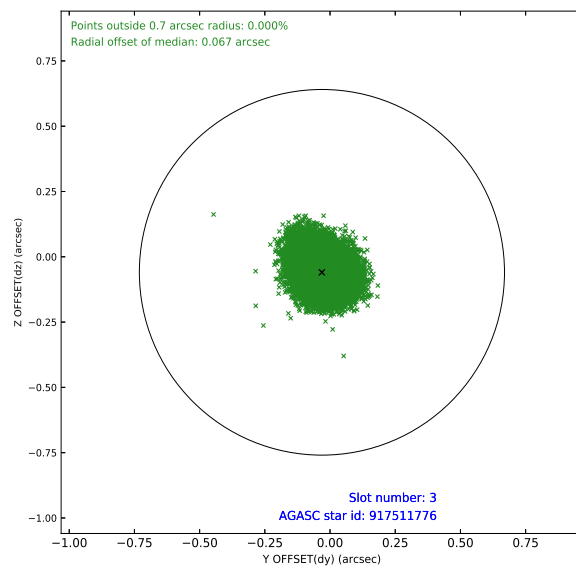
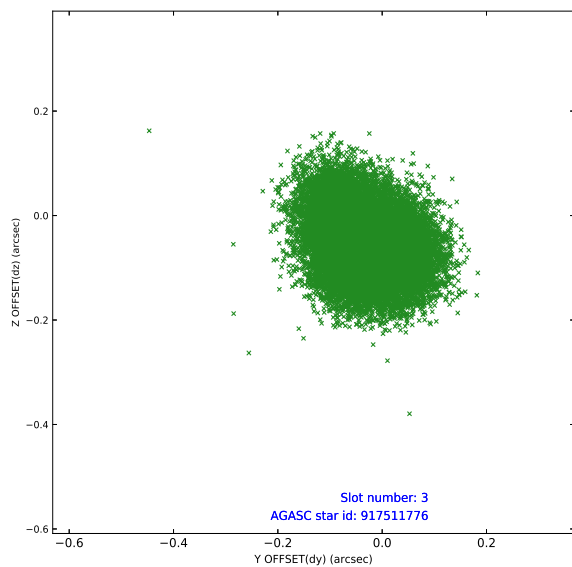
Slot Statistics

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	9762	1.000	-0.079	-0.062	0.008	0.013	0.000000	0.000000	-759.02	-1732
1	FID		ACIS-S-4	7.20	9762	1.000	0.140	0.055	0.010	0.016	0.000000	0.000000	2154.44	175
2	FID		ACIS-S-5	7.23	9762	1.000	-0.093	0.016	0.008	0.012	0.000000	0.000000	-1811.88	169
3	GUIDE	used	917511776	9.07	19518	1.000	-0.031	-0.059	0.093	0.146	13.026153	-35.747726	1425.16	2294
4	GUIDE	used	917513584	9.17	19512	1.000	-0.139	0.107	0.101	0.155	13.354905	-34.852926	1795.01	-1047
5	GUIDE	used	917650320	9.37	19437	1.000	0.086	0.011	0.089	0.144	14.082606	-35.612459	-1234.09	648
6	GUIDE	used	917650472	9.44	19503	1.000	-0.004	-0.080	0.154	0.224	13.602395	-35.400969	357.47	487
7	GUIDE	used	917650648	9.61	19507	1.000	0.086	0.022	0.105	0.170	14.085711	-35.147676	-602.53	-900

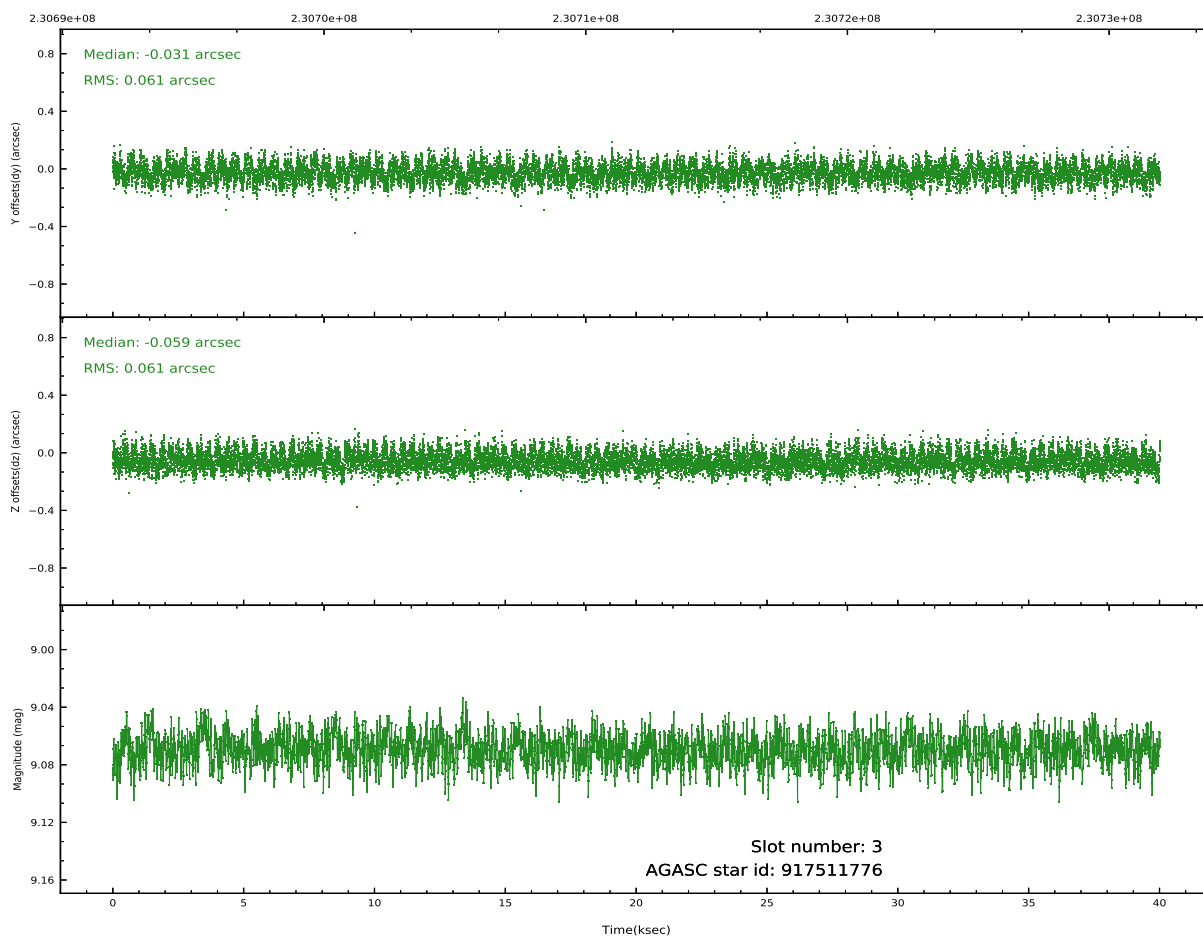
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2.4 Star Slots

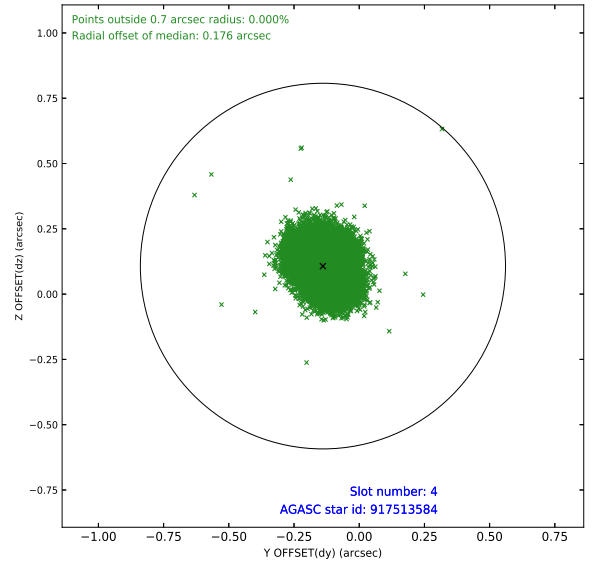
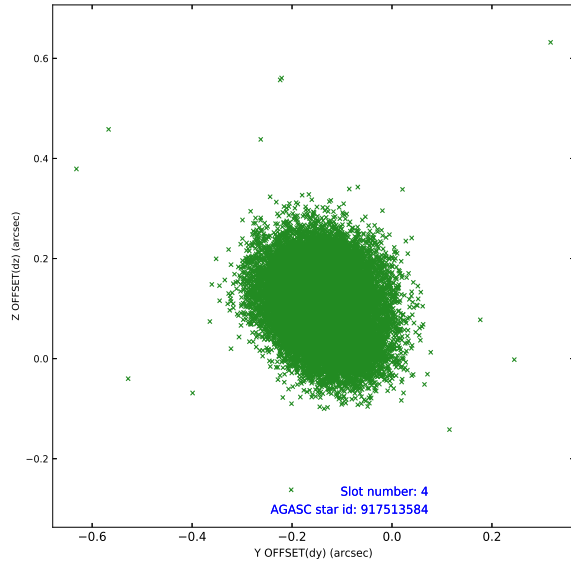
2.4.1 Slot 3



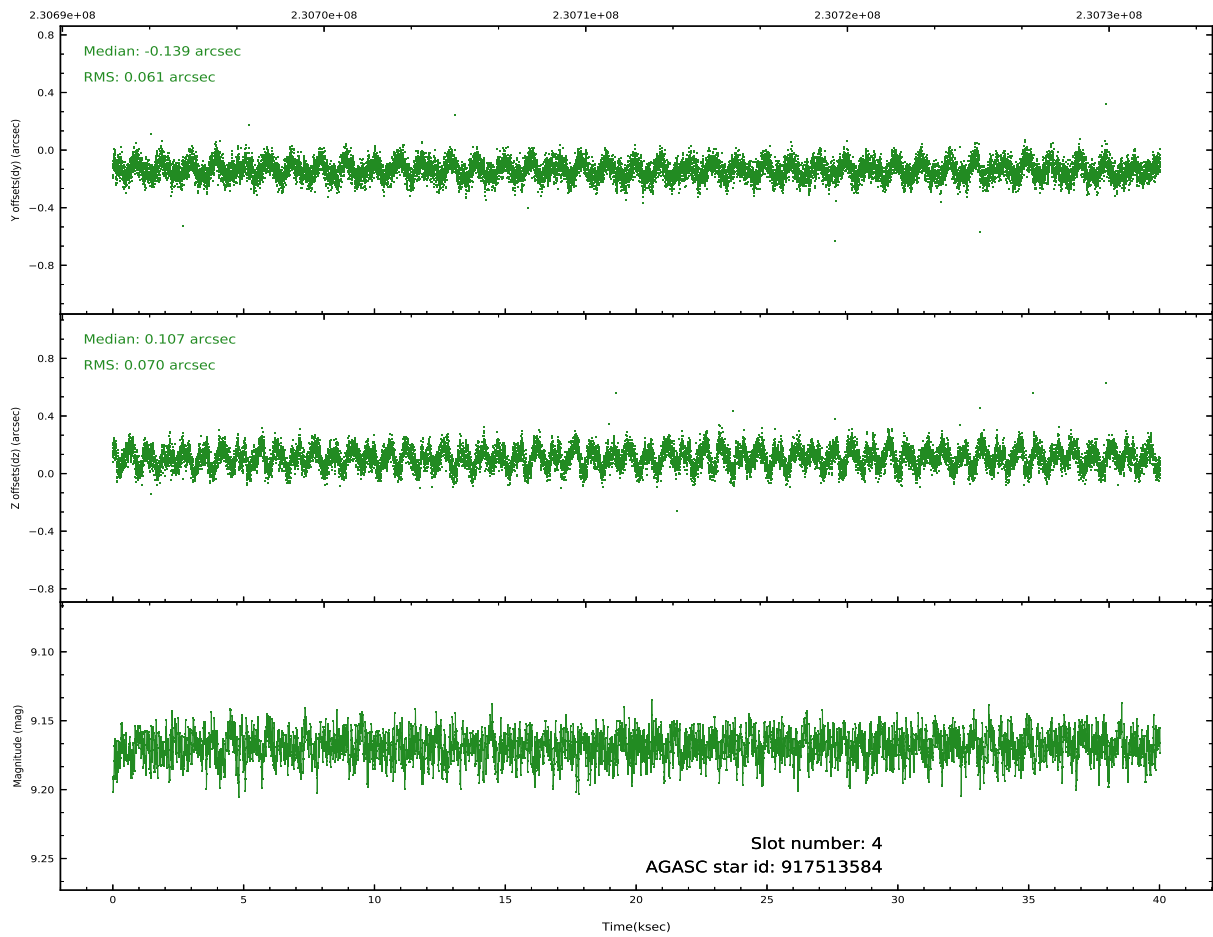
Time (s)



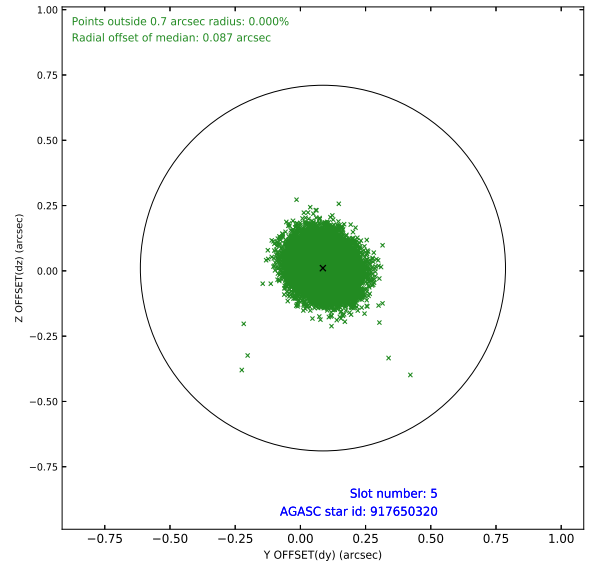
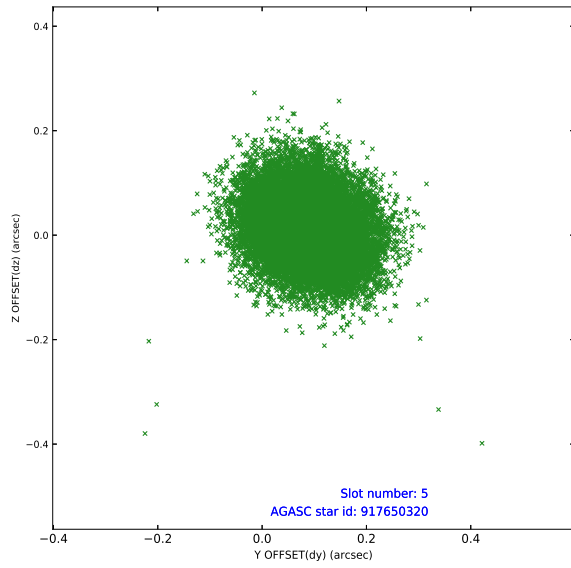
2.4.2 Slot 4



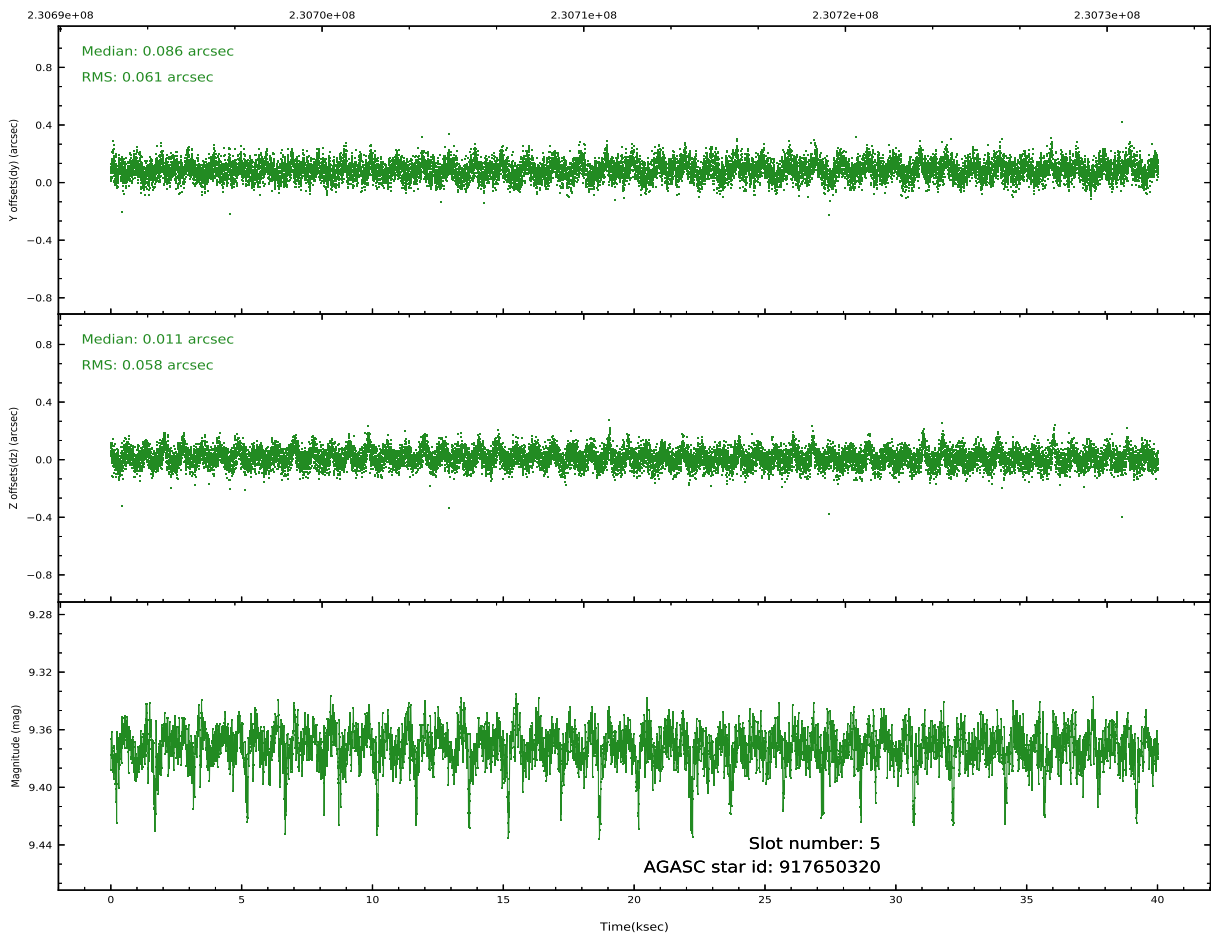
Time (s)



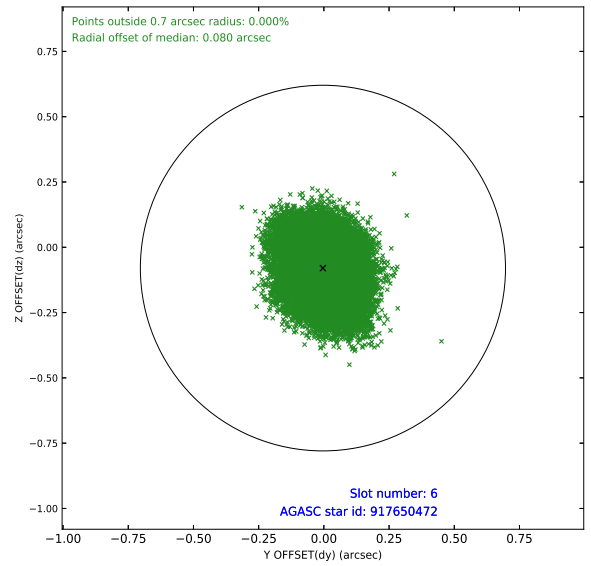
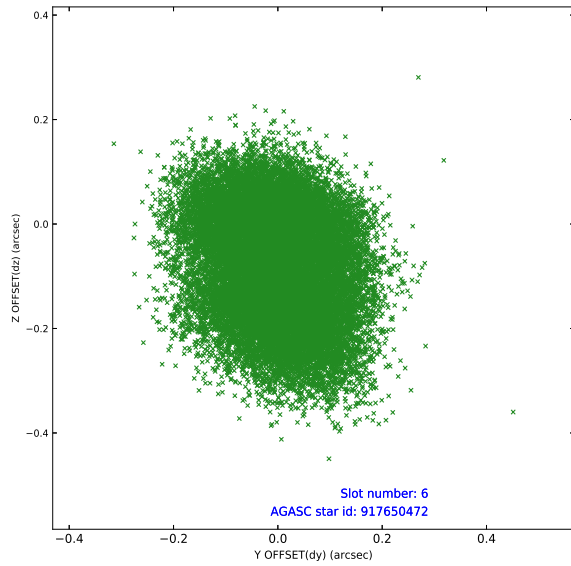
2.4.3 Slot 5



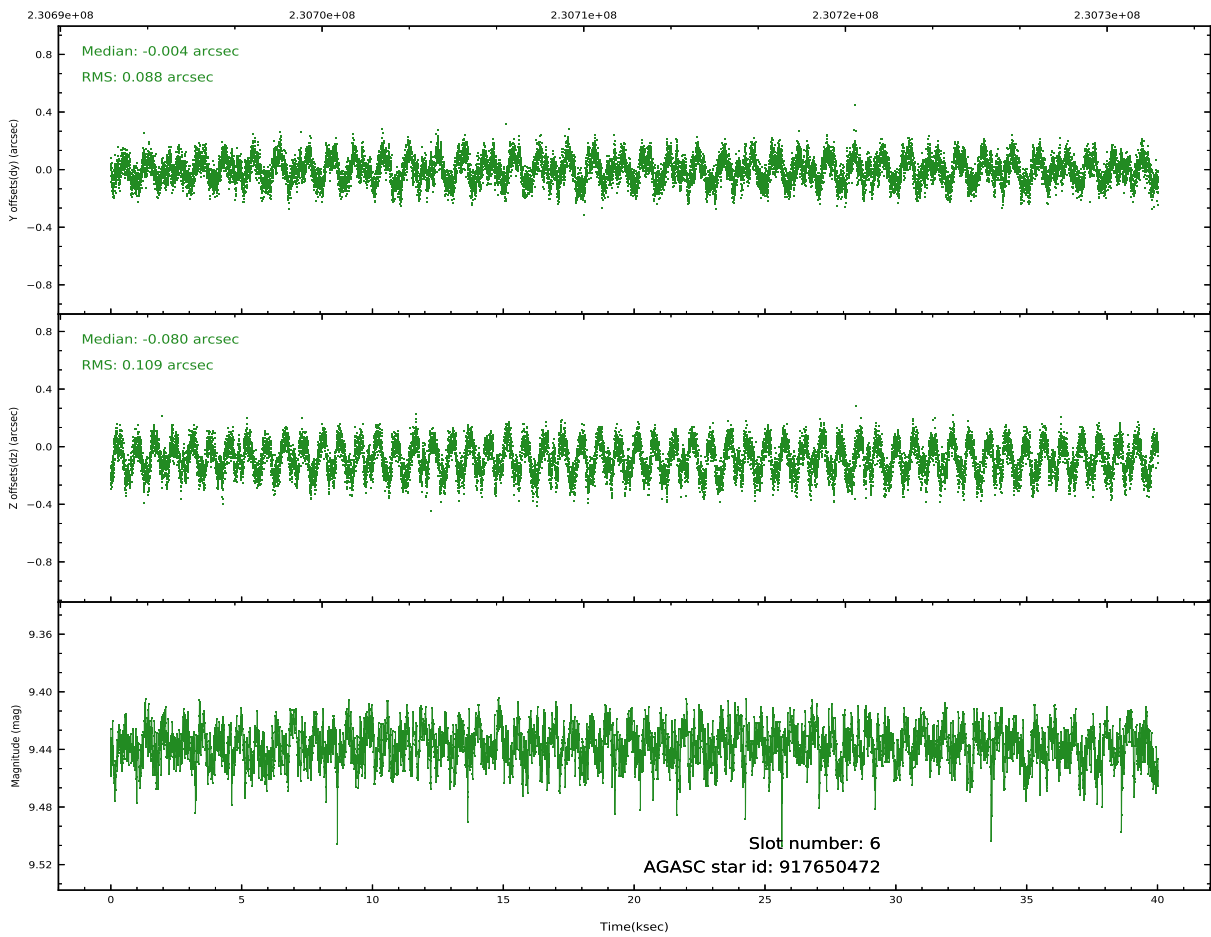
Time (s)



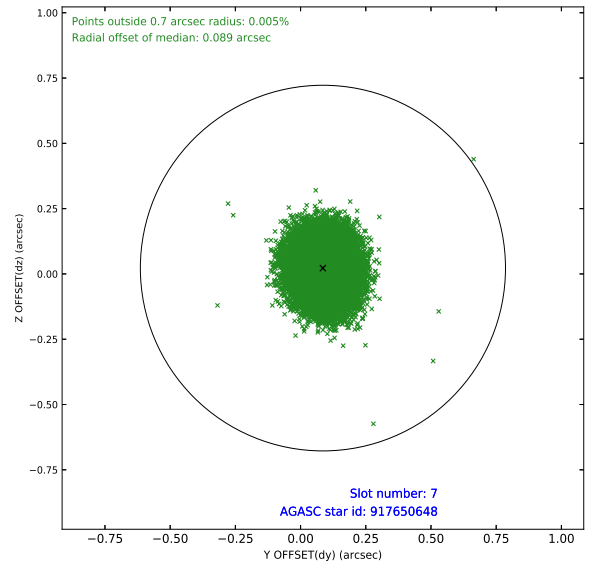
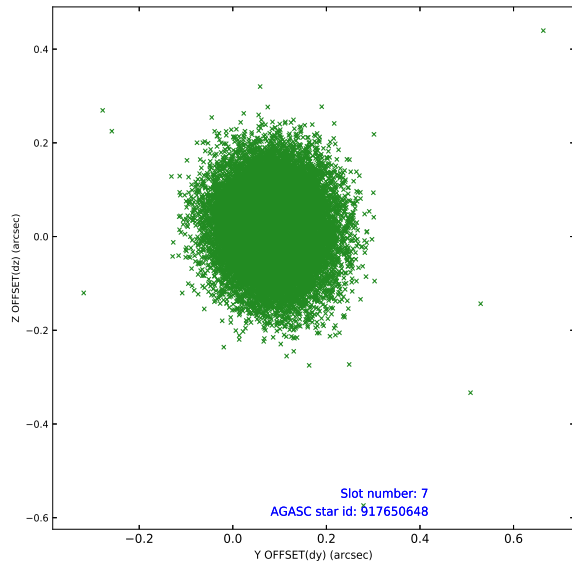
2.4.4 Slot 6



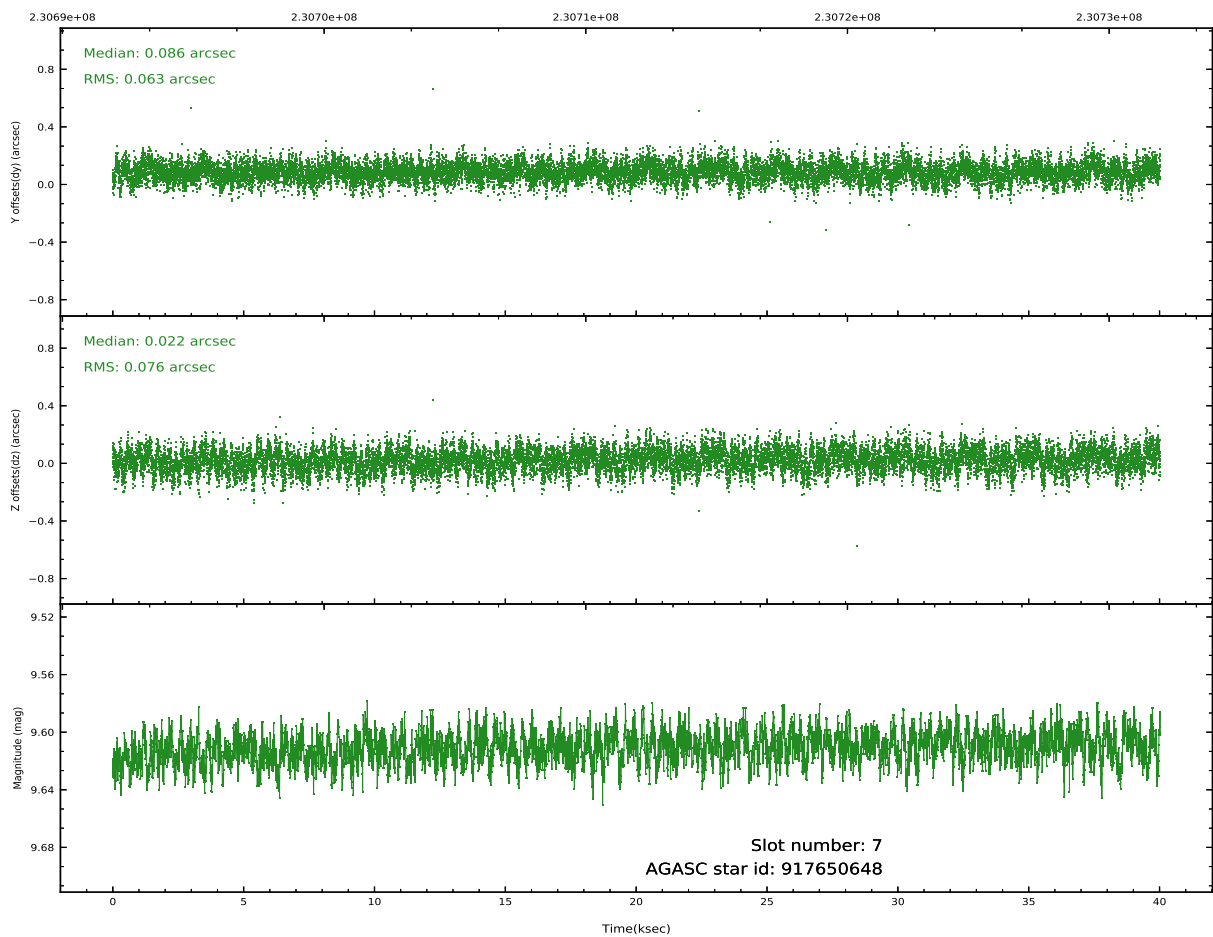
Time (s)



2.4.5 Slot 7

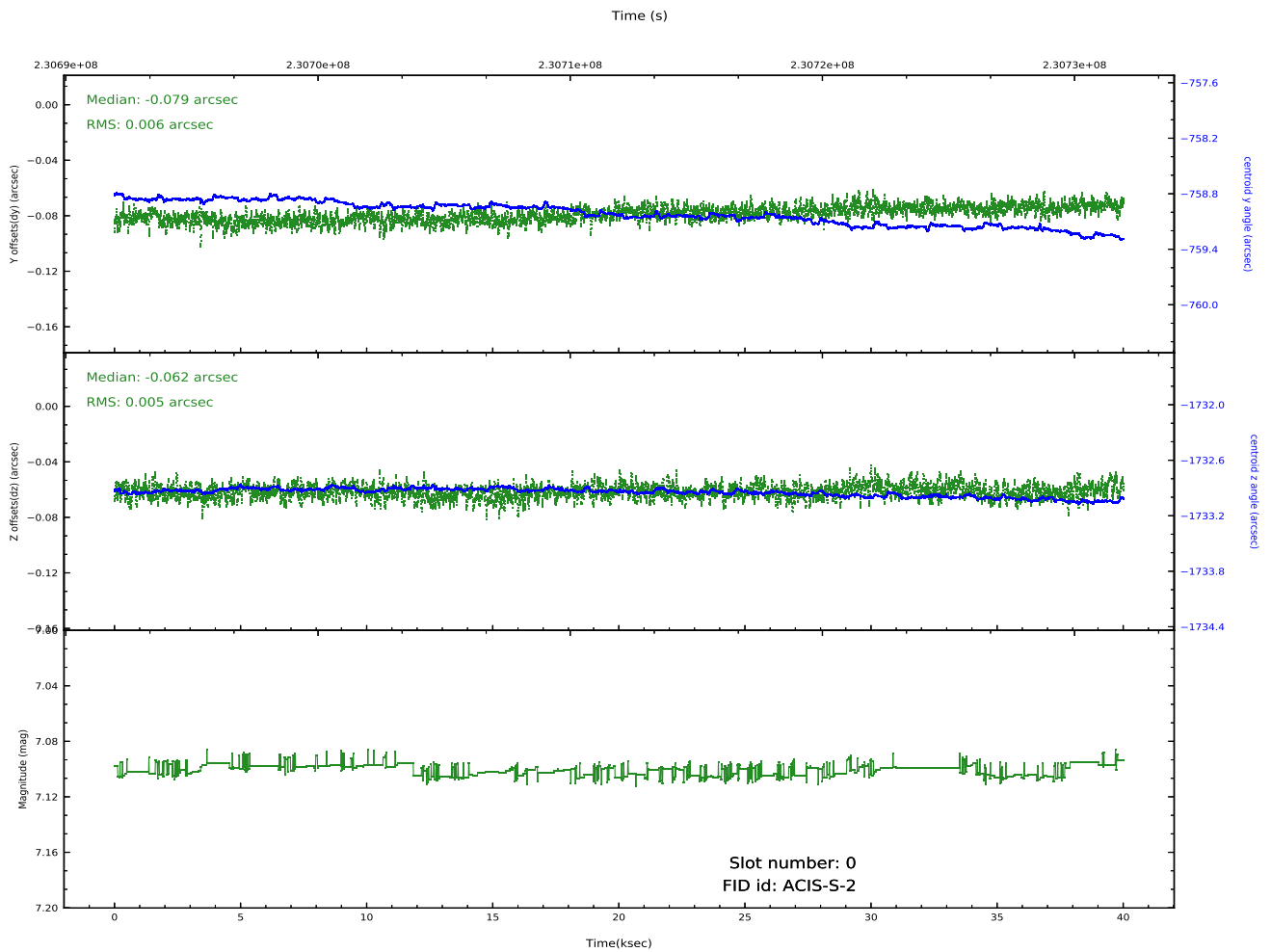
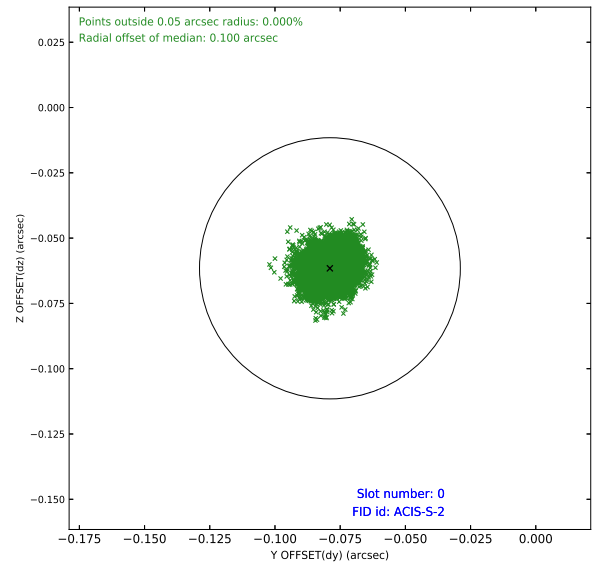
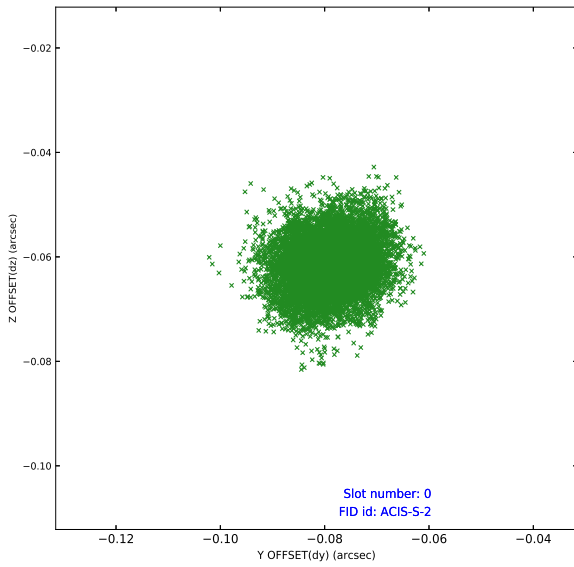


Time (s)

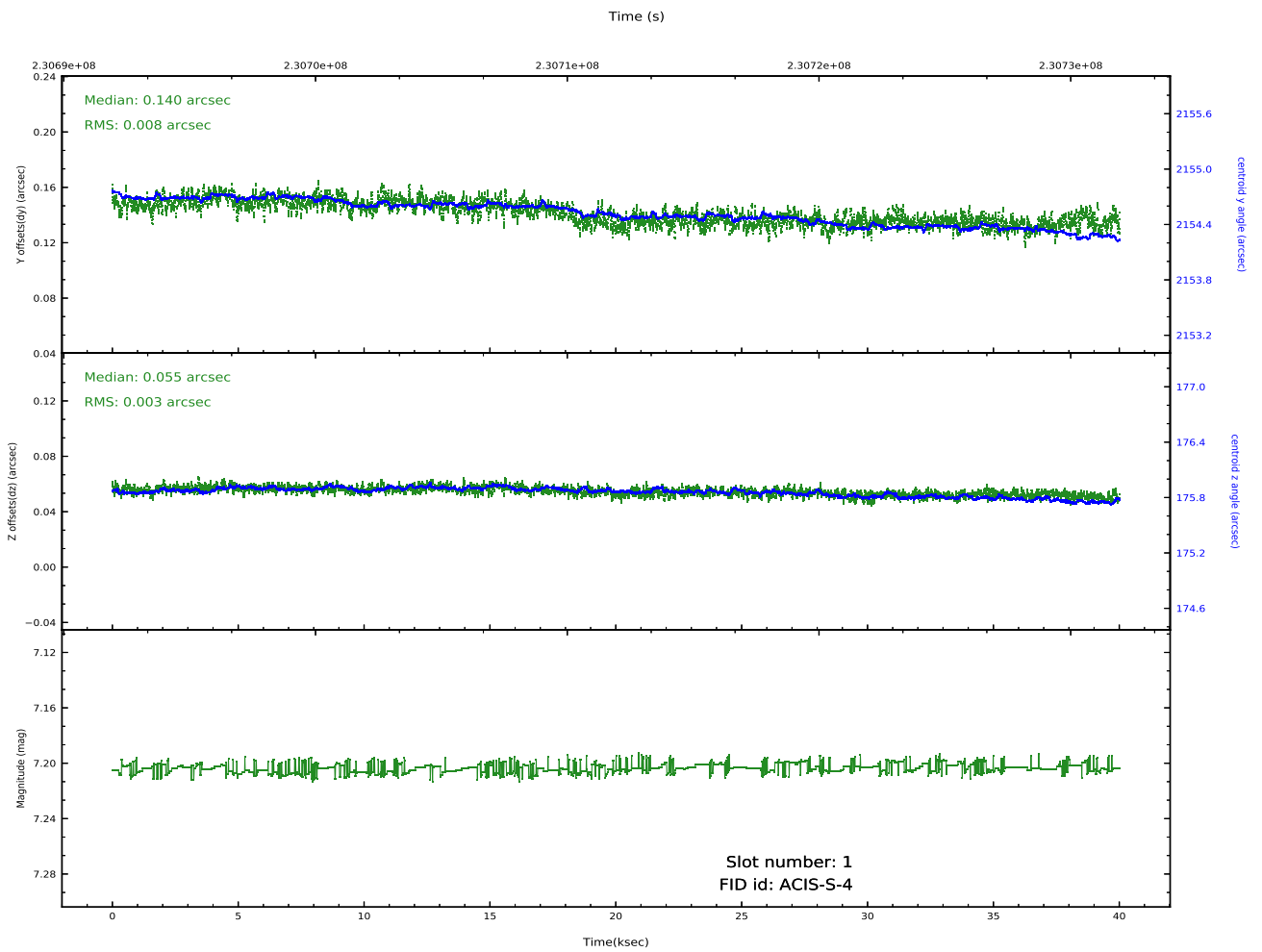
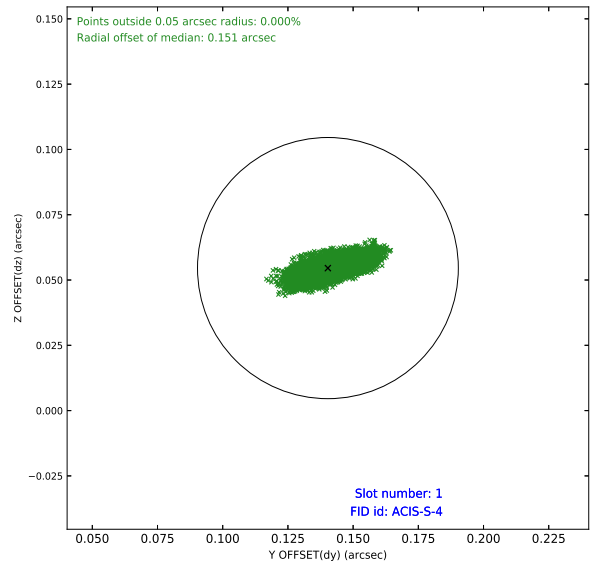
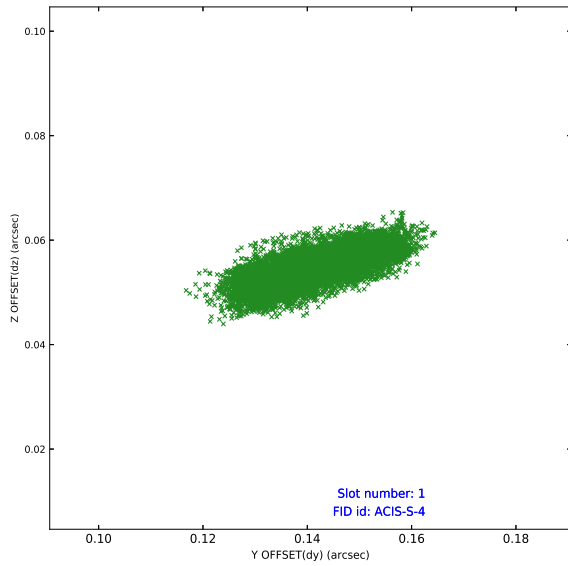


2.5 FID Slots

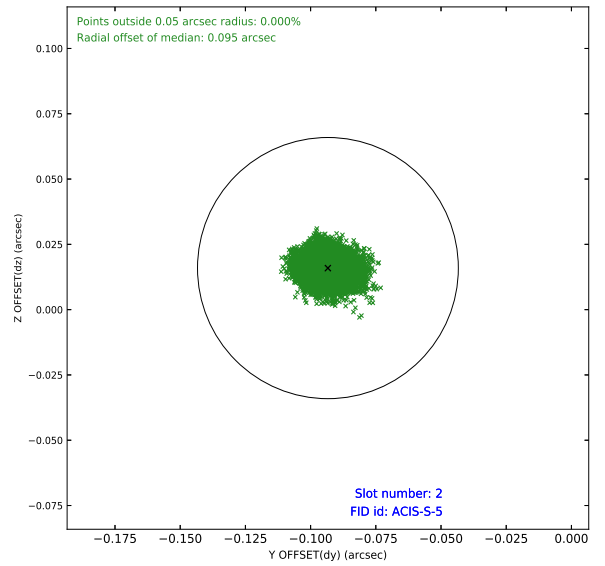
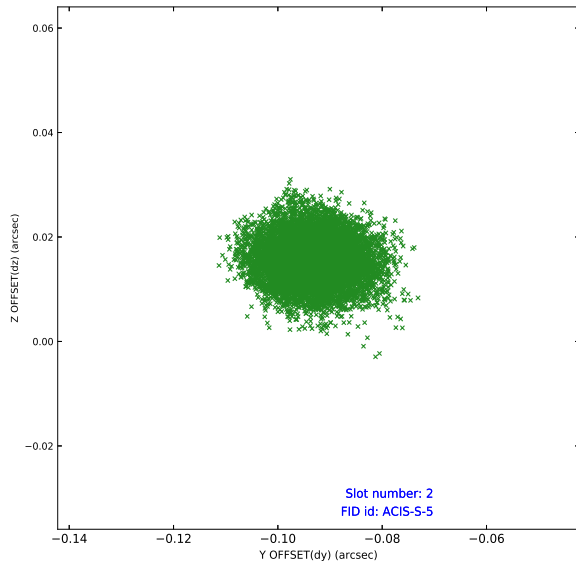
2.5.1 Slot 0



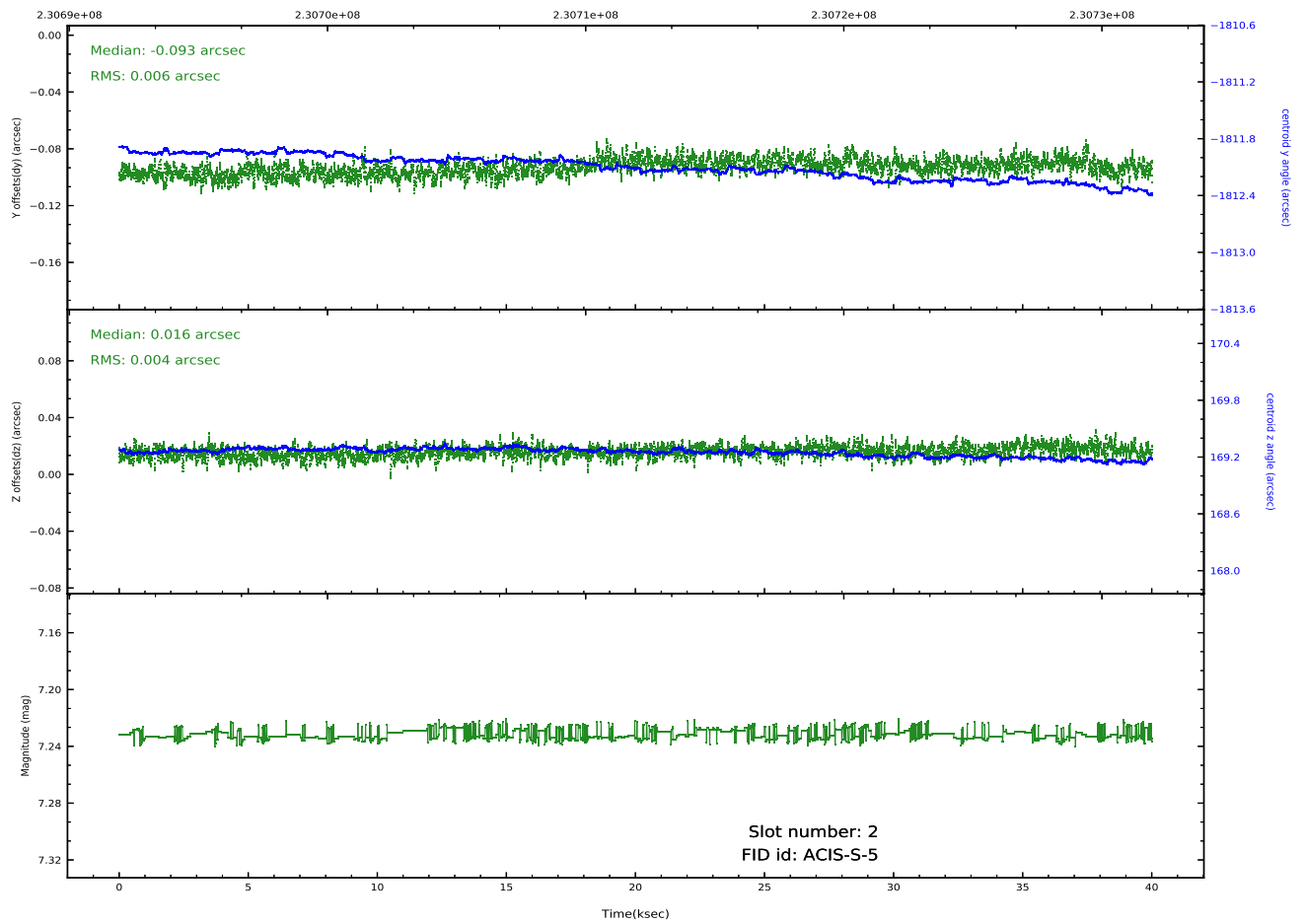
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.01789

A.2 Comments