

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22012 - L2 Version 1
Chandra X-Ray Center

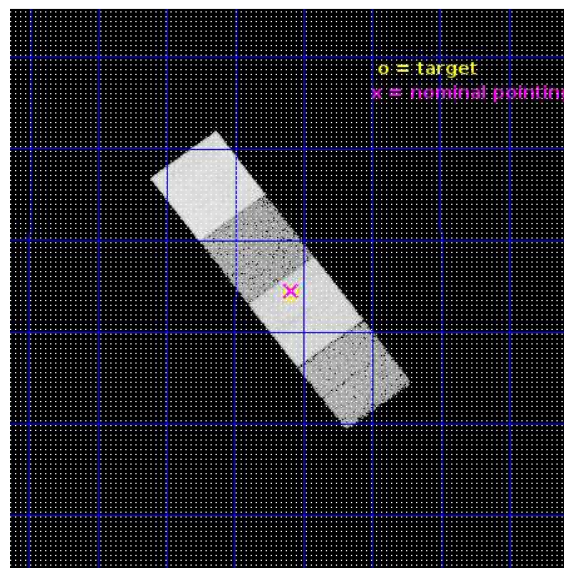
L2 Processing Date : Dec 30 2018

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1 Front

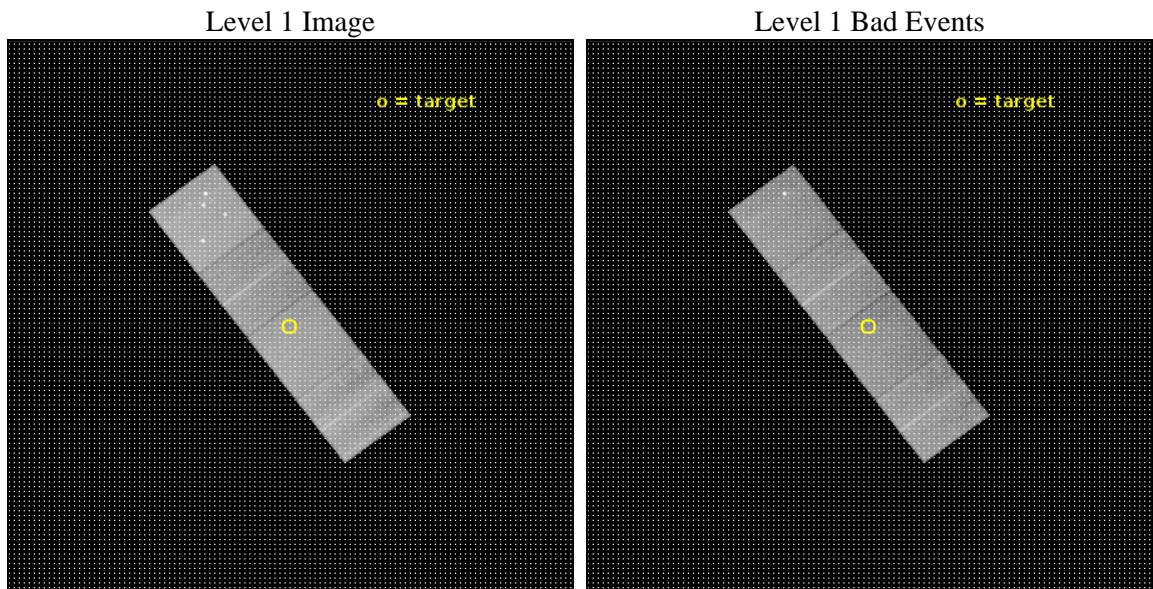
seq_num	201264	Sequence number
obs_id	22012	Observation id
title	A disk event in an Oe star	Proposal title
observer	Gregor Rauw	Principal investigator
object	HD60848	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	114.27375	Observer's specified target RA [deg]
dec_targ	16.90425	Observer's specified target Dec [deg]
ra_nom	114.2721653306	Nominal RA [deg]
dec_nom	16.908705165879	Nominal Dec [deg]
roll_nom	53.157123839884	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19064.912438393	Sum of GTIs [s]
livetime	18815.815322001	Livetime [s]
ontime5	19064.871398449	Sum of GTIs [s]
ontime6	19064.830358386	Sum of GTIs [s]
ontime7	19064.912438393	Sum of GTIs [s]
ontime8	19064.789318442	Sum of GTIs [s]
l2events	217484	Number of level 2 events



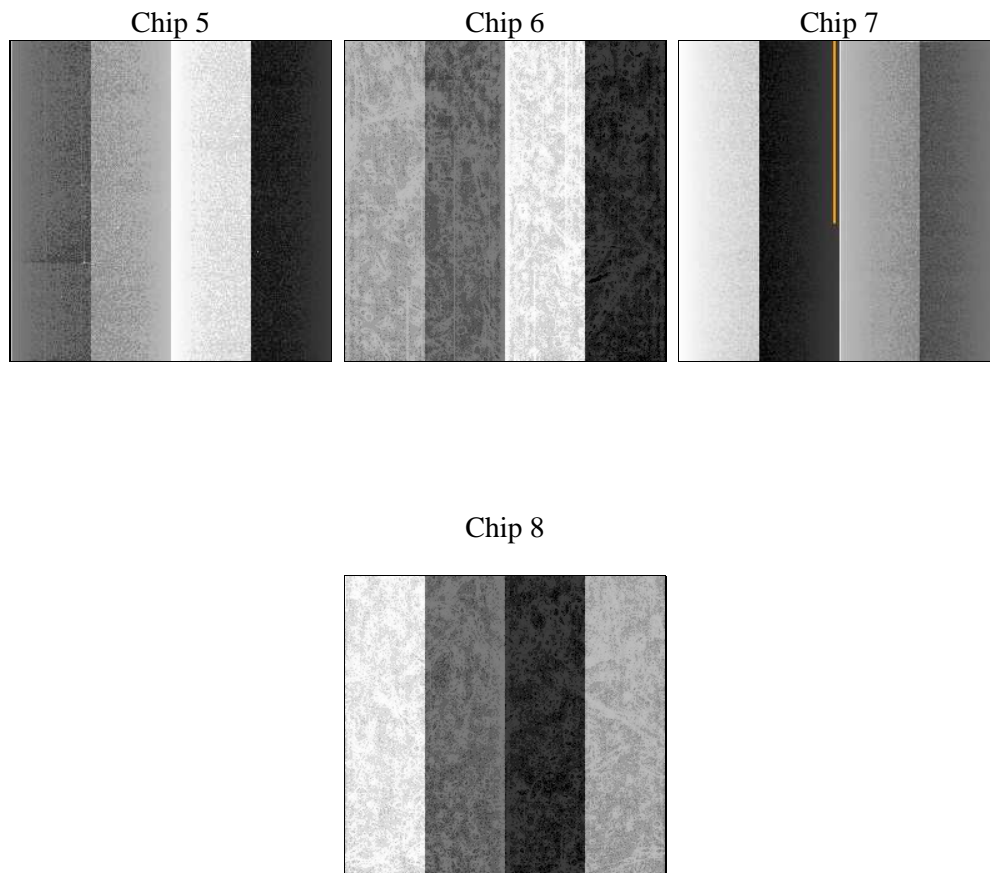
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	19064.912438393	Sum of GTIs [s]
caldbver	4.8.2	 	ontime5	19064.871398449	Sum of GTIs [s]
date	2018-12-30T14:20:17	Date and time of file creation	ontime6	19064.830358386	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	19064.912438393	Sum of GTIs [s]
			ontime8	19064.789318442	Sum of GTIs [s]
			l1events	776313	Number of level 1 events

2.1.4 Events

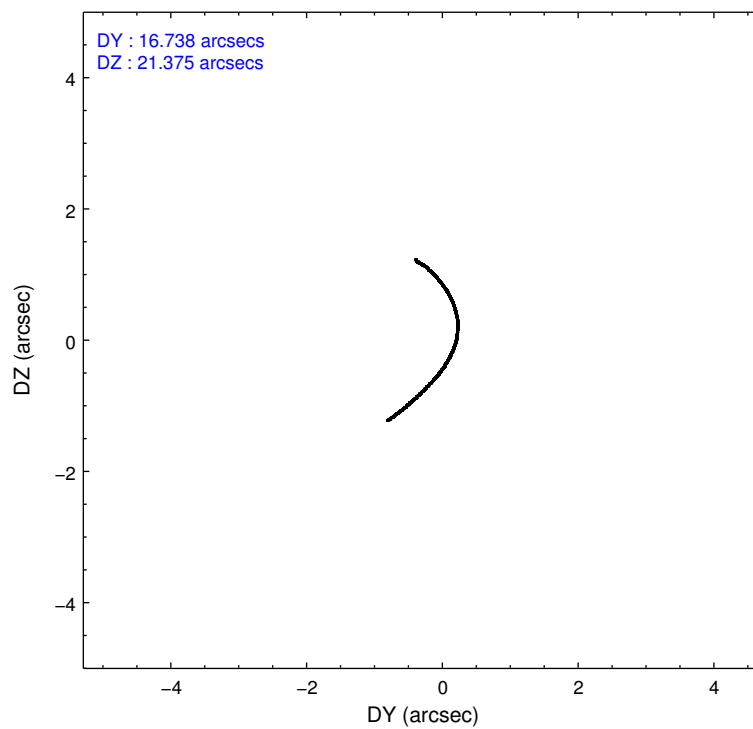
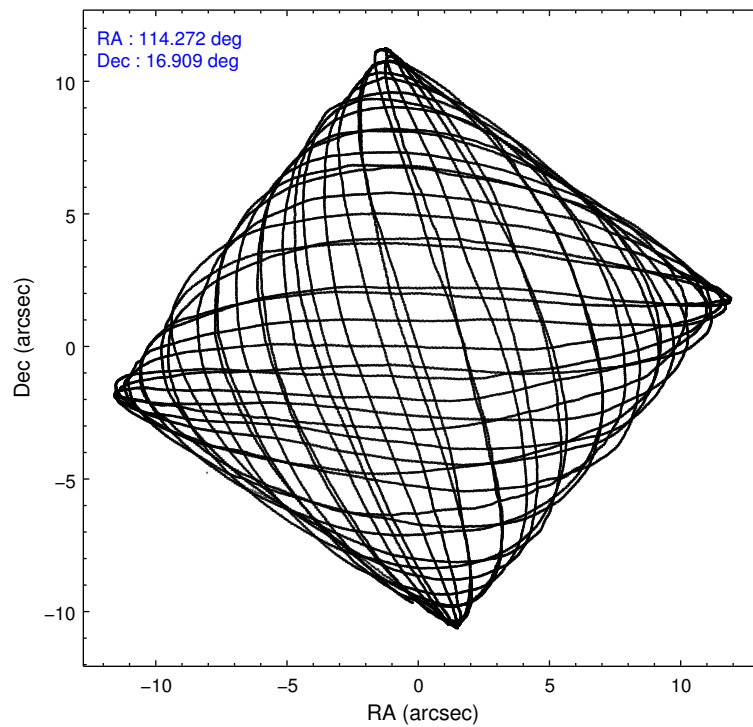
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	248051	147567	187280	193415
rejected events	124730	131091	106017	139501
rejected %	50%	88%	56%	72%

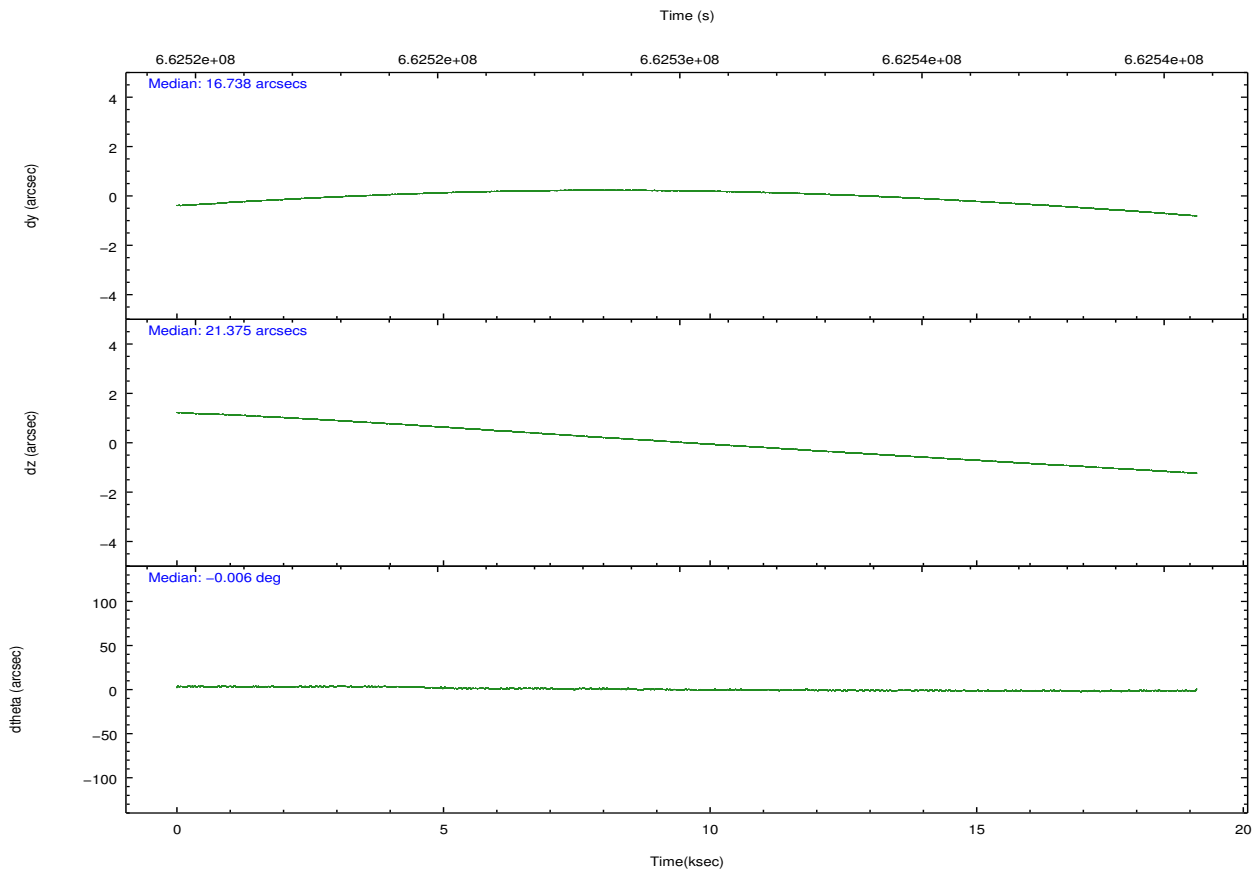
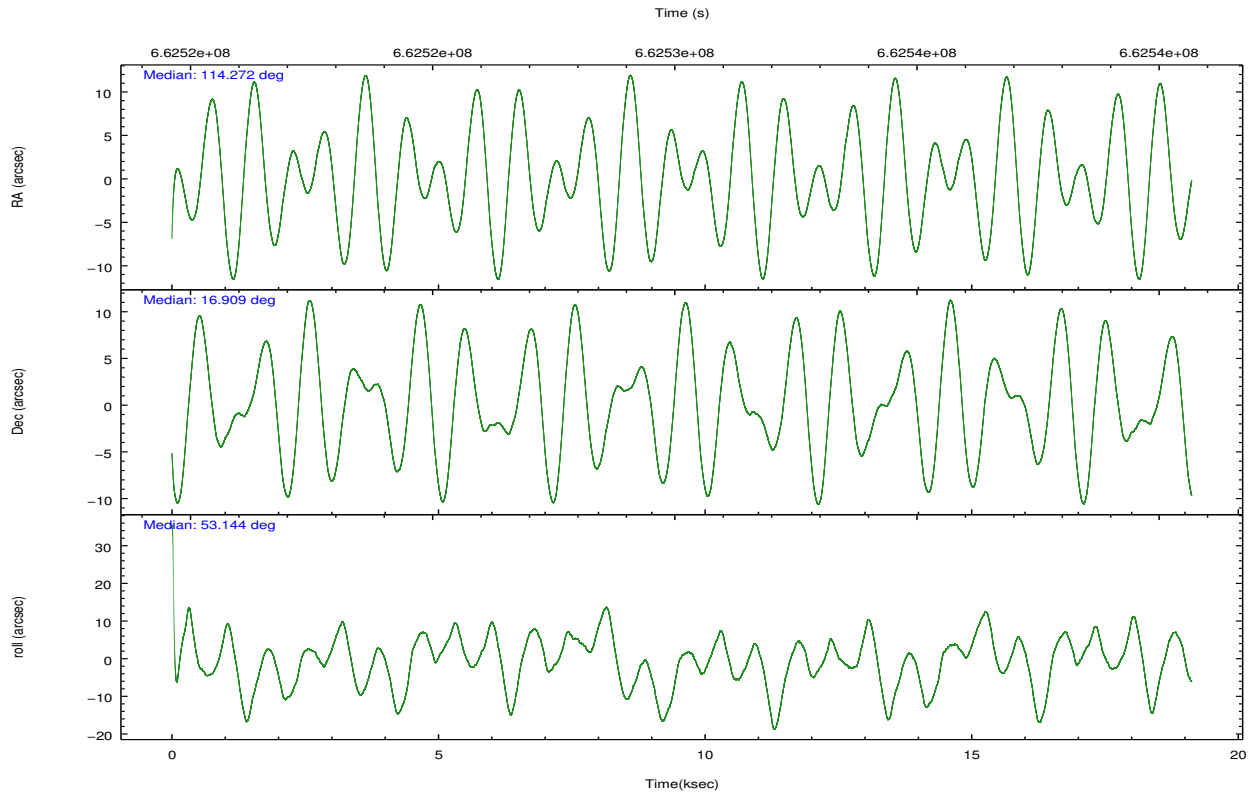
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	18276	5401	6695	14815
	7%	3%	3%	7%
grade 1 events	580	62	267	138
	0%	0%	0%	0%
grade 2 events	37036	3815	17643	13293
	14%	2%	9%	6%
grade 3 events	3455	1616	6414	5578
	1%	1%	3%	2%
grade 4 events	3130	1635	6318	5210
	1%	1%	3%	2%
grade 5 events	16209	6818	18720	10665
	6%	4%	9%	5%
grade 6 events	61452	4013	44207	15023
	24%	2%	23%	7%
grade 7 events	107913	124207	87016	128693
	43%	84%	46%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	114.269140	114.2721653306012	CCD I2 on	N	N
[deg] Pointing Dec	16.881420	16.9087051658788	CCD I3 on	N	N
[deg] Pointing Roll	53.001335	53.15712383988405	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O2	Y
[s] Observation start time (MET)	662520708.184000	662519440.2395999	CCD S5 on	N	N
Observation start date	2018-12-30T01:30:39	2018-12-30T01:10:40	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	662539708.184000	662541216.8784	On-chip summing requested	N	N
Observation end date	2018-12-30T06:47:19	2018-12-30T07:13:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





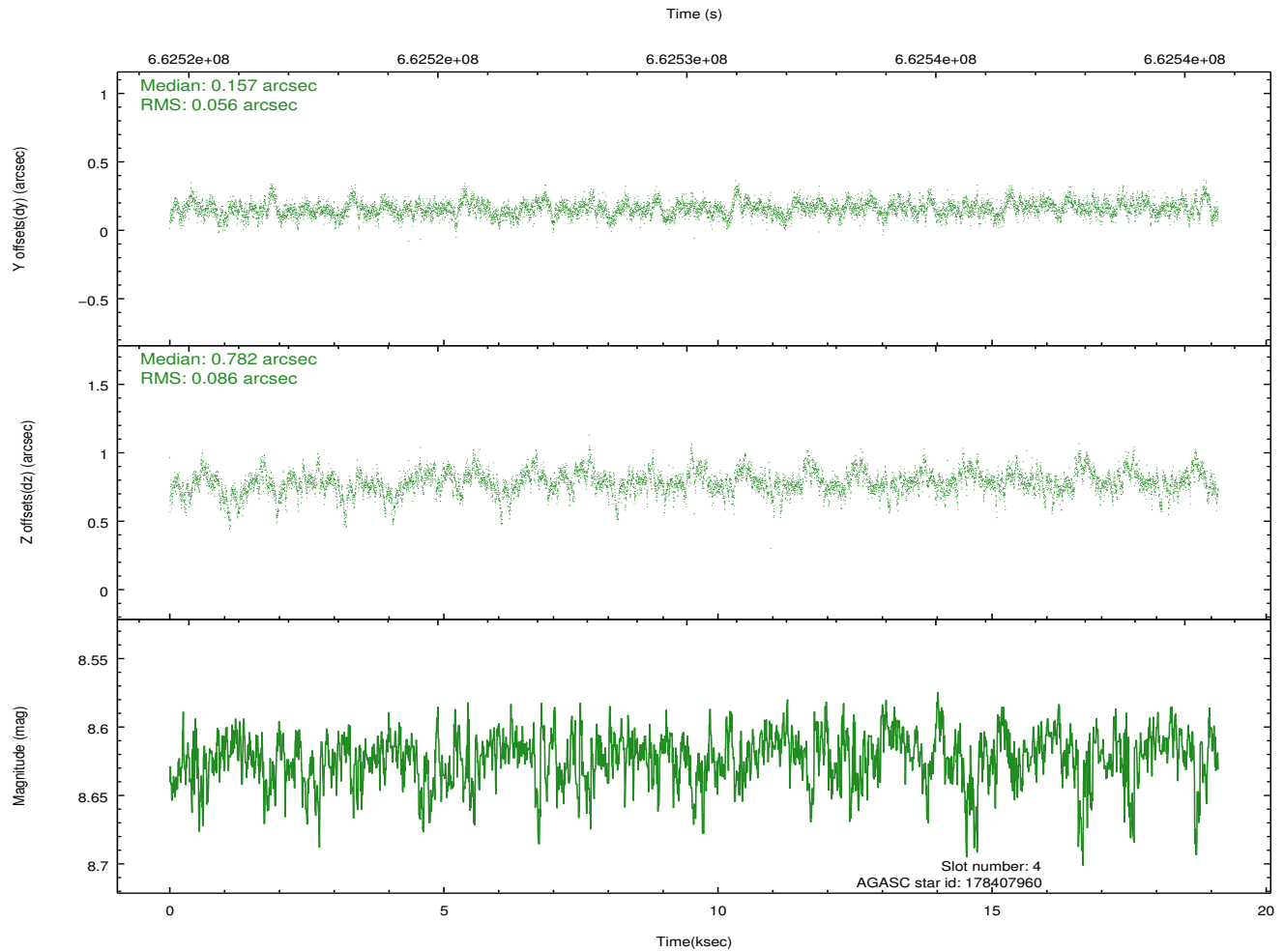
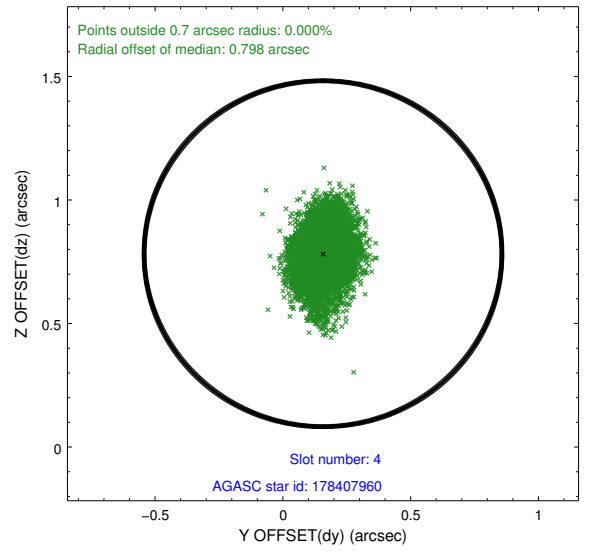
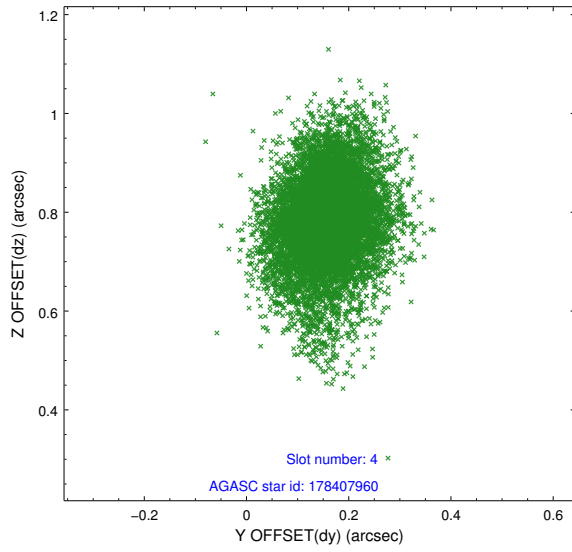
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.03	4664	1.000	-0.349	-0.229	0.029	0.040	0.000000	0.000000	-769.96	-1743
1	FID		ACIS-S-4	7.14	4665	1.000	0.779	0.229	0.033	0.044	0.000000	0.000000	2144.28	165
2	FID		ACIS-S-5	7.11	4665	1.000	-0.464	0.009	0.027	0.034	0.000000	0.000000	-1822.73	159
3	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
4	GUIDE	used	178407960	8.62	9324	1.000	0.157	0.782	0.105	0.188	114.462298	16.347720	-1131.37	-1688
5	GUIDE	used	178785928	7.70	9328	1.000	-0.013	-0.207	0.106	0.169	113.621555	16.954100	-1130.19	1940
6	GUIDE	used	178799400	9.07	9317	1.000	-0.073	-0.603	0.149	0.243	113.690267	17.193568	-298.40	2267
7	GUIDE	used	178928064	8.47	9320	1.000	-0.069	0.027	0.093	0.157	114.523680	17.075619	1086.37	-277

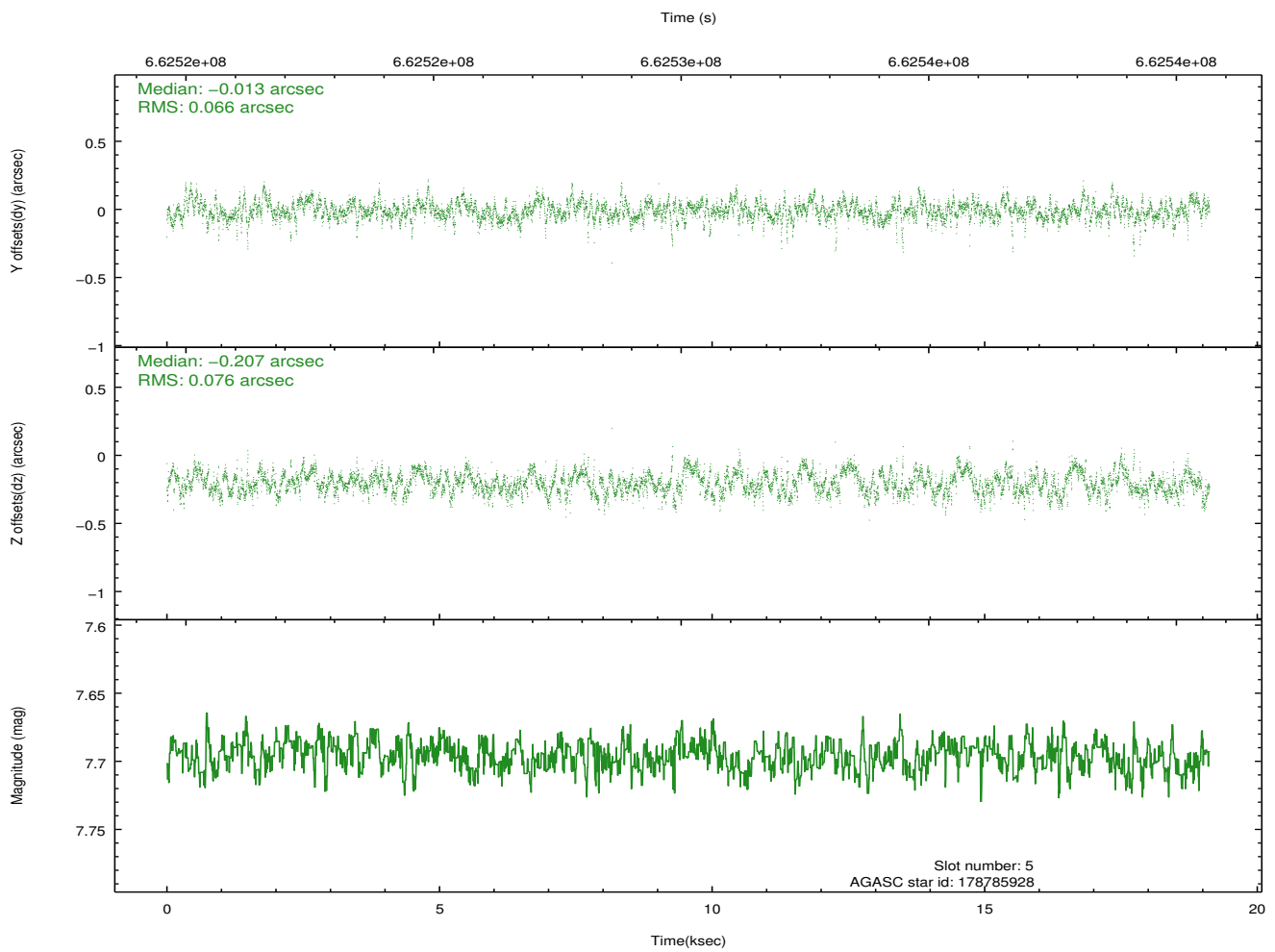
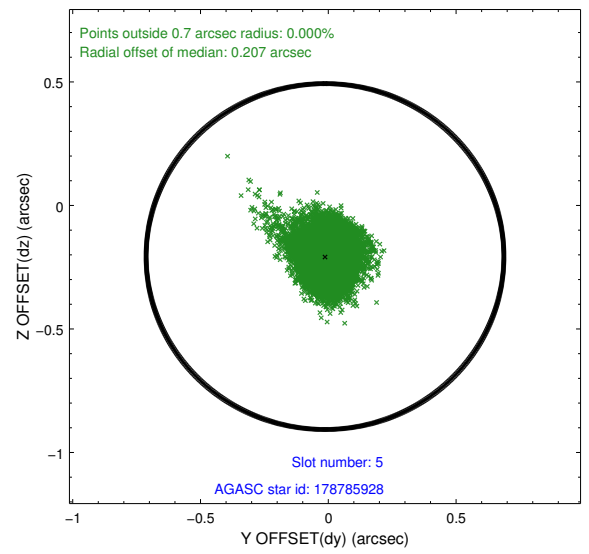
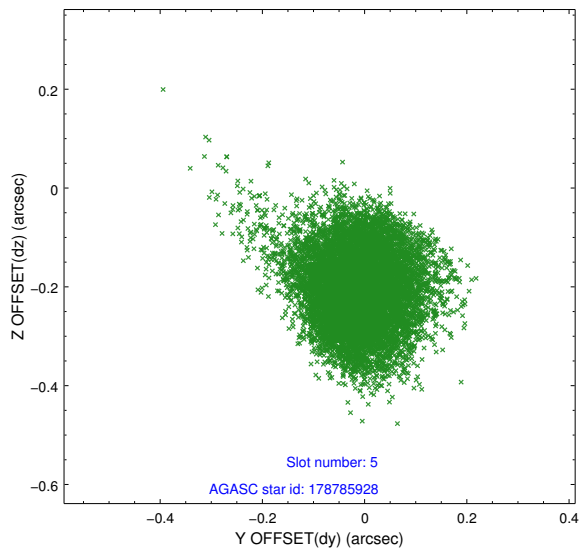
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2.4 Star Slots

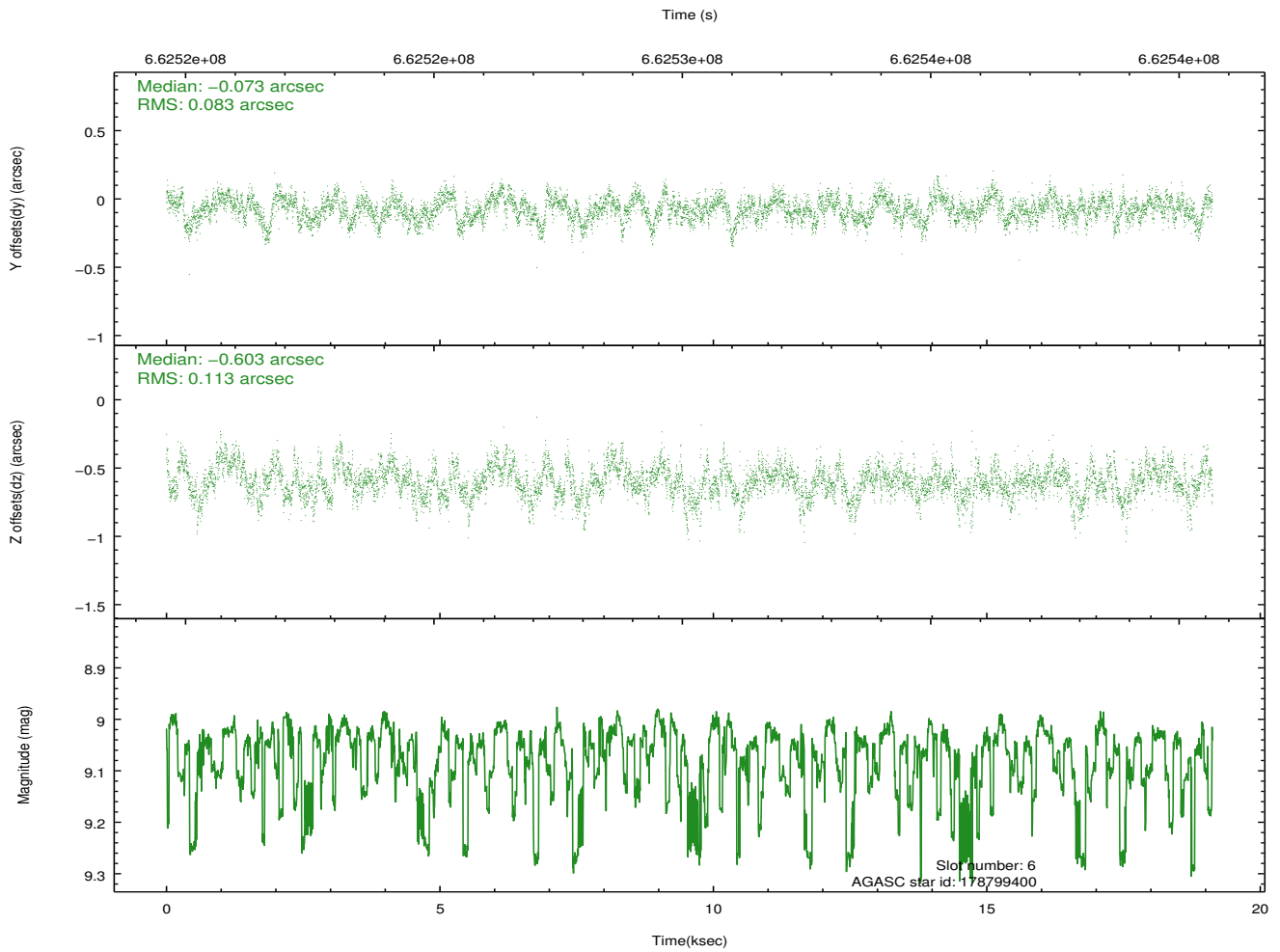
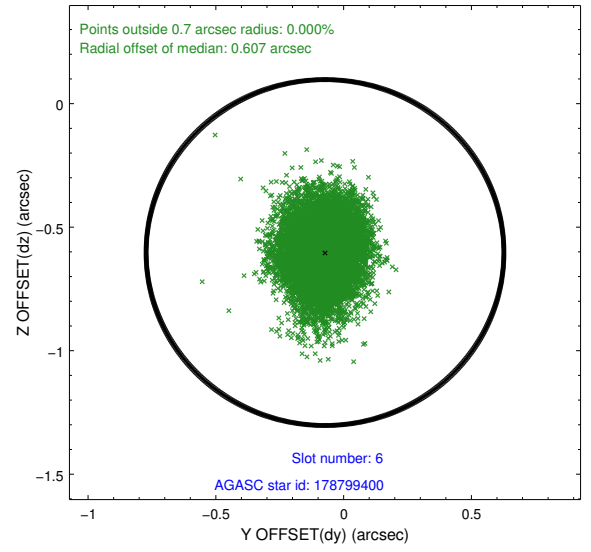
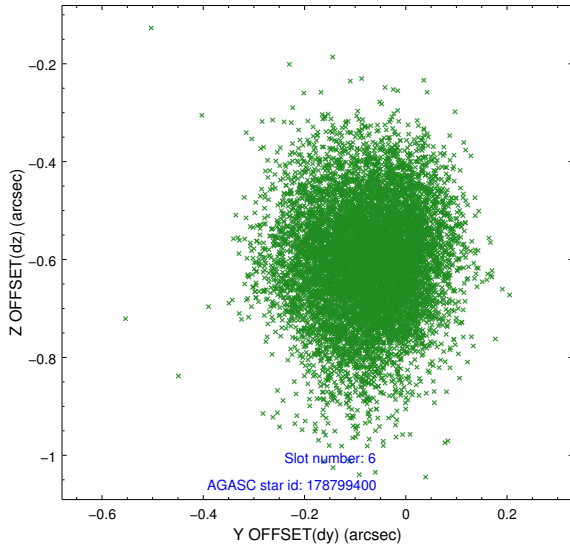
2.4.1 Slot 4



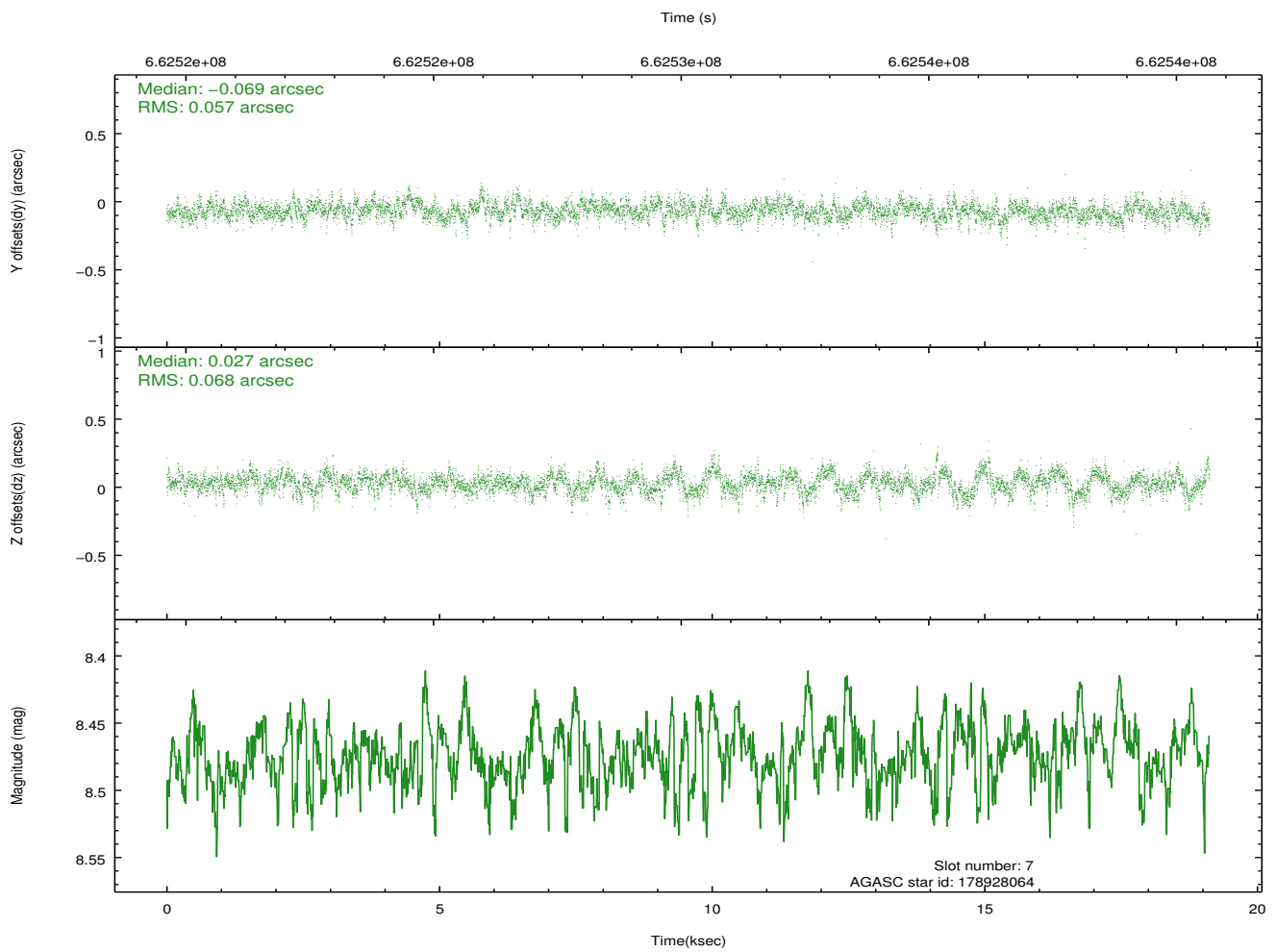
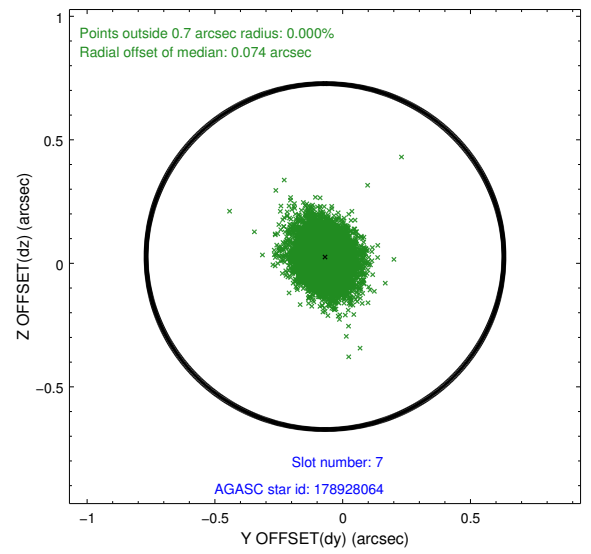
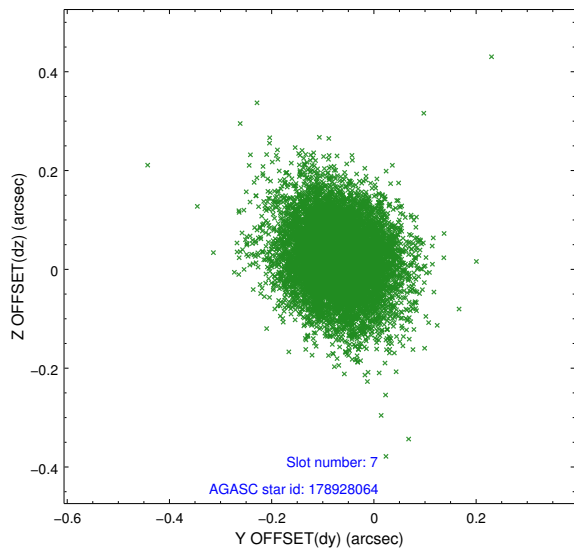
2.4.2 Slot 5



2.4.3 Slot 6

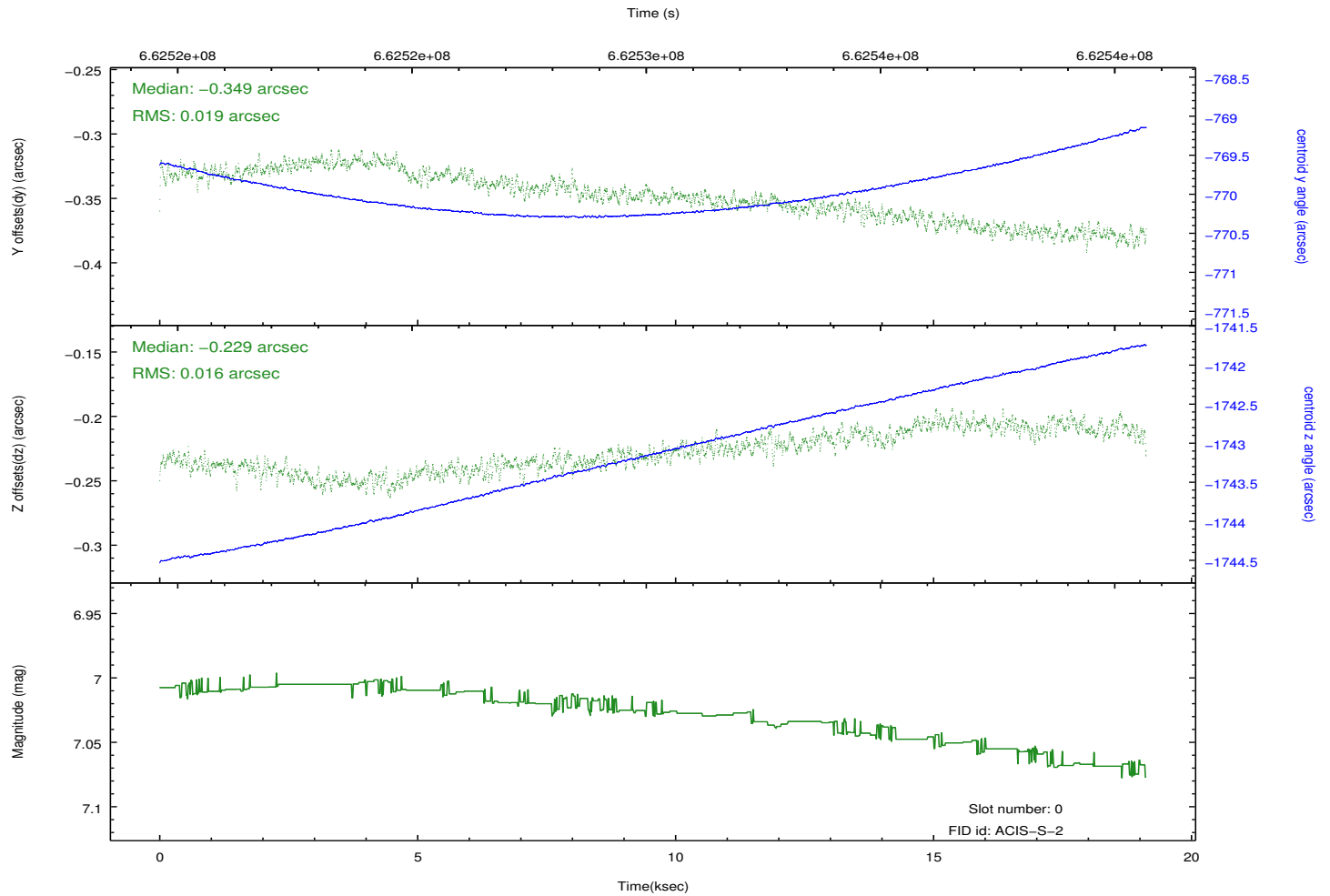
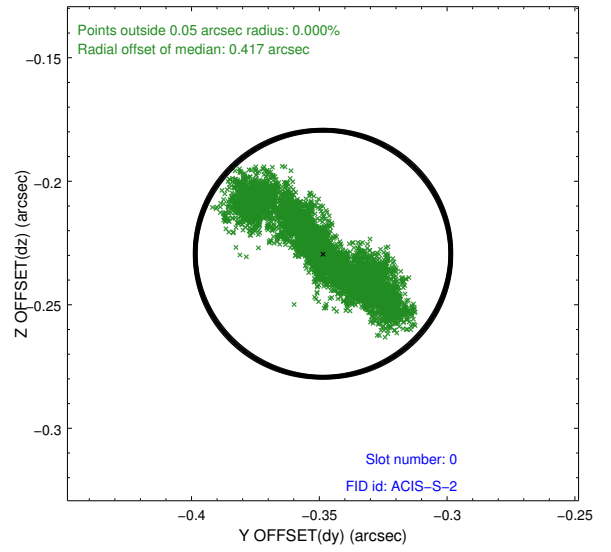
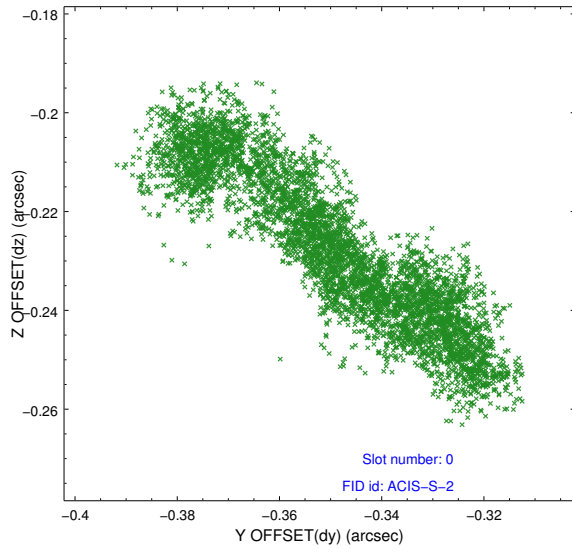


2.4.4 Slot 7

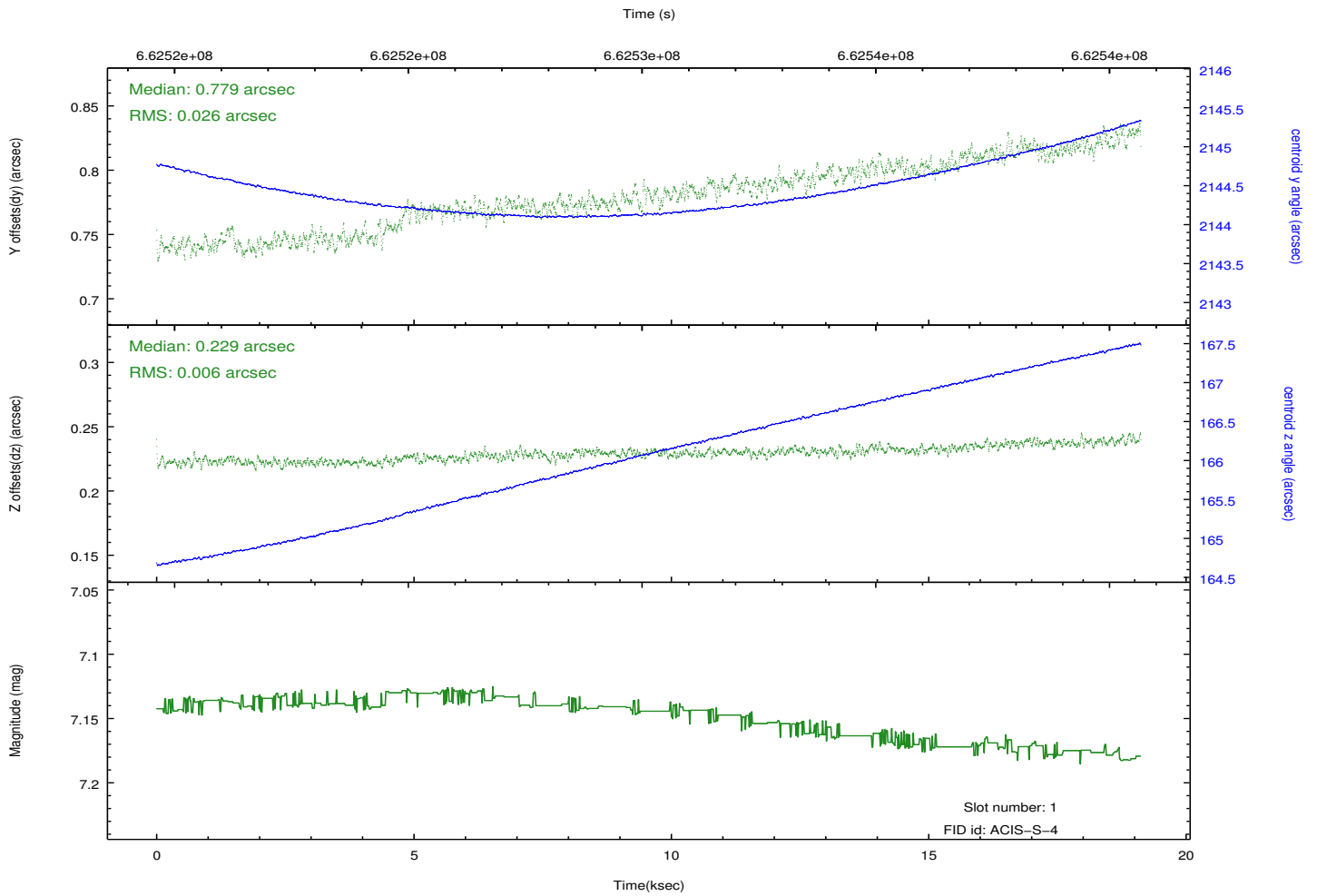
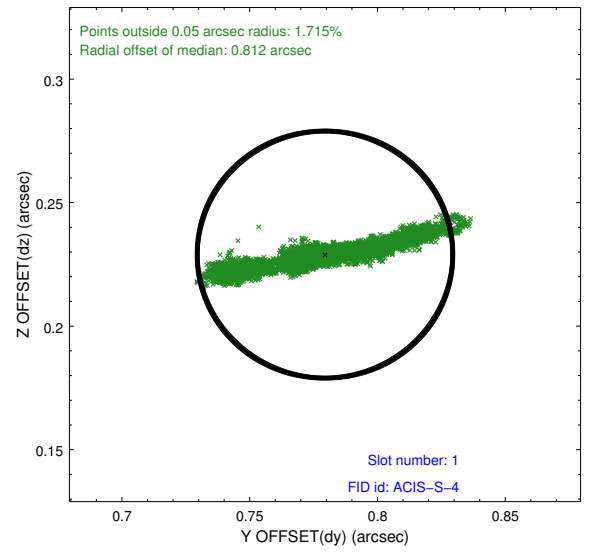
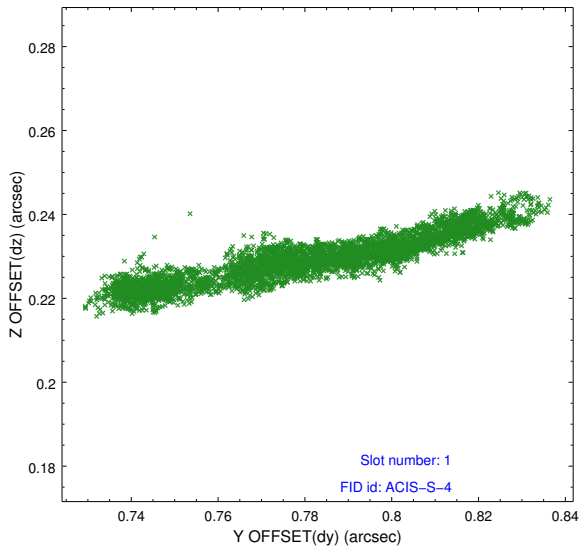


2.5 FID Slots

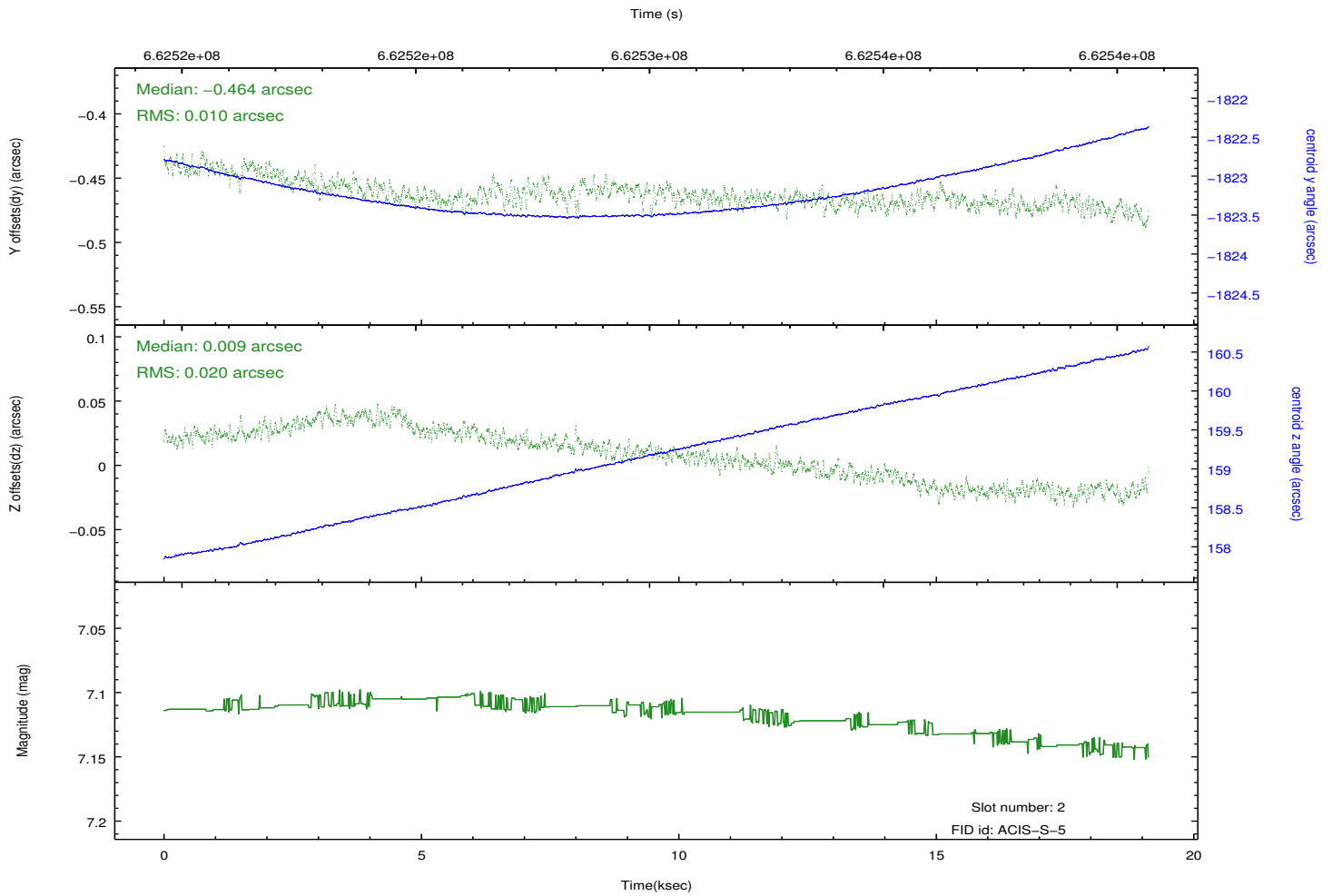
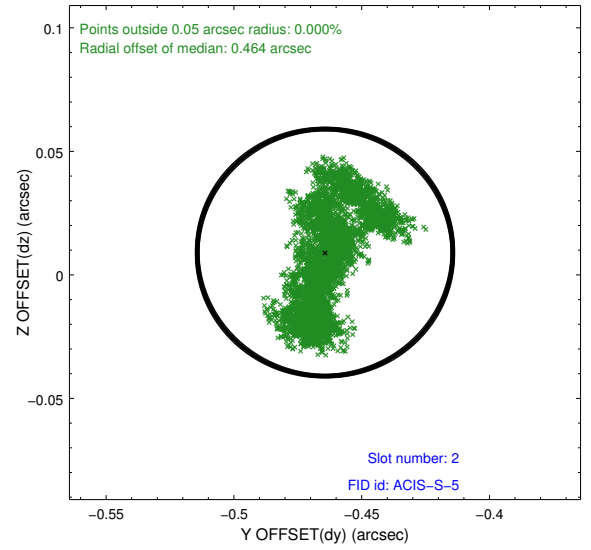
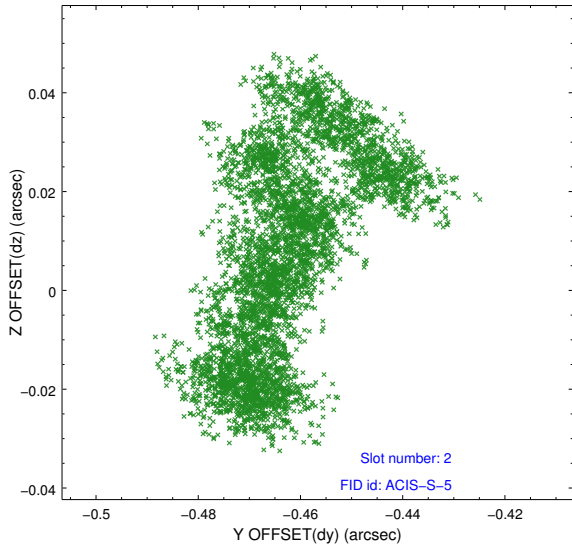
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2018.12.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.064912438393

A.2 Comments

The guide star in slot 3 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.