

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 19331 - L2 Version 1
Chandra X-Ray Center

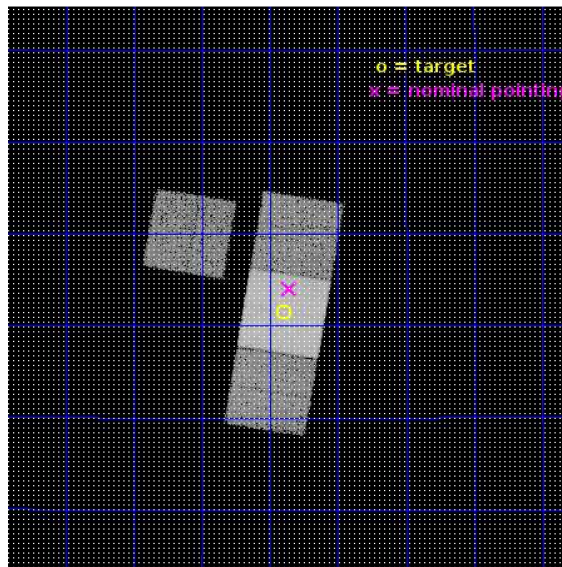
L2 Processing Date : Feb 20 2017

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1 Front

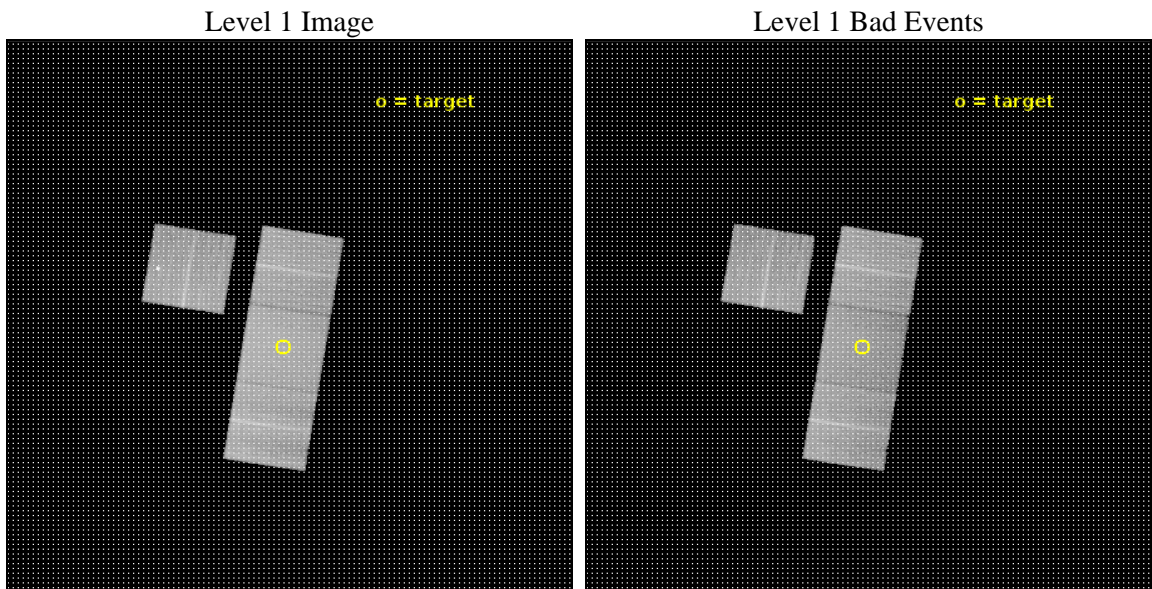
seq_num	601288	Sequence number
obs_id	19331	Observation id
title	A Statistically Robust Constraint on the Evolution of Field LMXBs	
observer	Bret Lehmer	Principal investigator
object	NGC 4382	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.350417	Observer's specified target RA [deg]
dec_targ	18.191083	Observer's specified target Dec [deg]
ra_nom	186.33927671423	Nominal RA [deg]
dec_nom	18.234203939242	Nominal Dec [deg]
roll_nom	99.16009023931	Nominal Roll [deg]
revision	1	Processing version of data
ontime	22763.30017519	Sum of GTIs [s]
livetime	22465.880900303	Livetime [s]
ontime2	22763.30017519	Sum of GTIs [s]
ontime6	22763.30017519	Sum of GTIs [s]
ontime7	22763.30017519	Sum of GTIs [s]
ontime8	22763.30017519	Sum of GTIs [s]
l2events	134411	Number of level 2 events



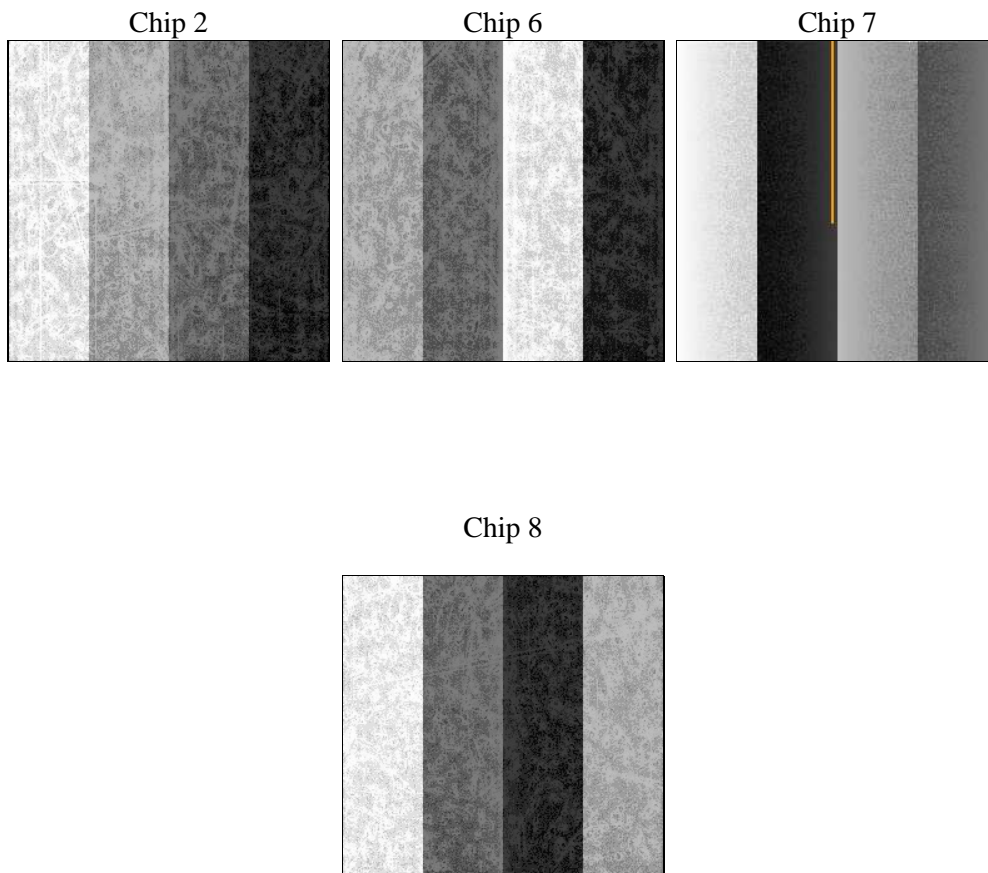
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	22650.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	22763.30017519	Sum of GTIs [s]
caldbver	4.7.3	 	ontime2	22763.30017519	Sum of GTIs [s]
date	2017-02-21T01:18:44	Date and time of file creation	ontime6	22763.30017519	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	22763.30017519	Sum of GTIs [s]
			ontime8	22763.30017519	Sum of GTIs [s]
			l1events	770058	Number of level 1 events

2.1.4 Events

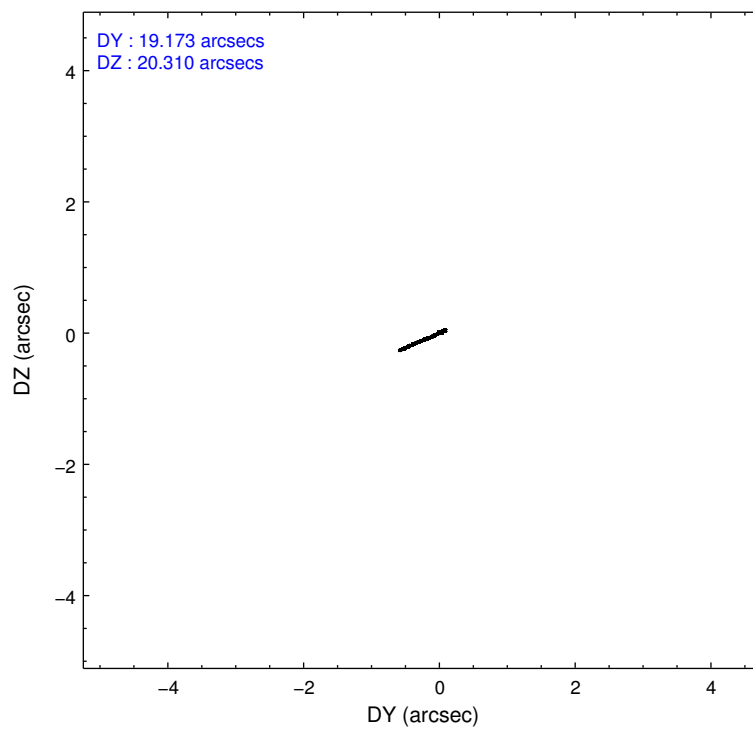
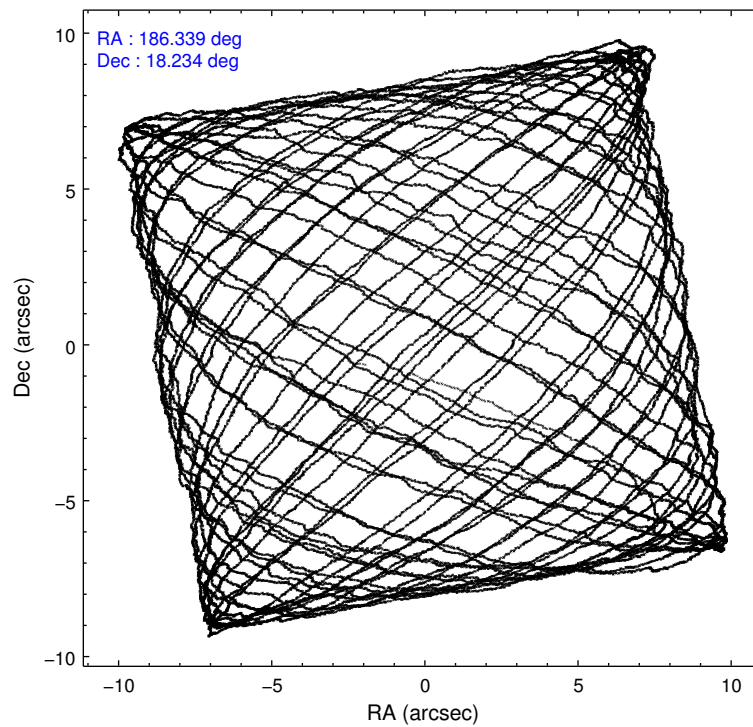
	ccd 2	ccd 6	ccd 7	ccd 8
level 1 events	173583	175649	211055	209771
rejected events	152972	157409	121002	158424
rejected %	88%	89%	57%	75%

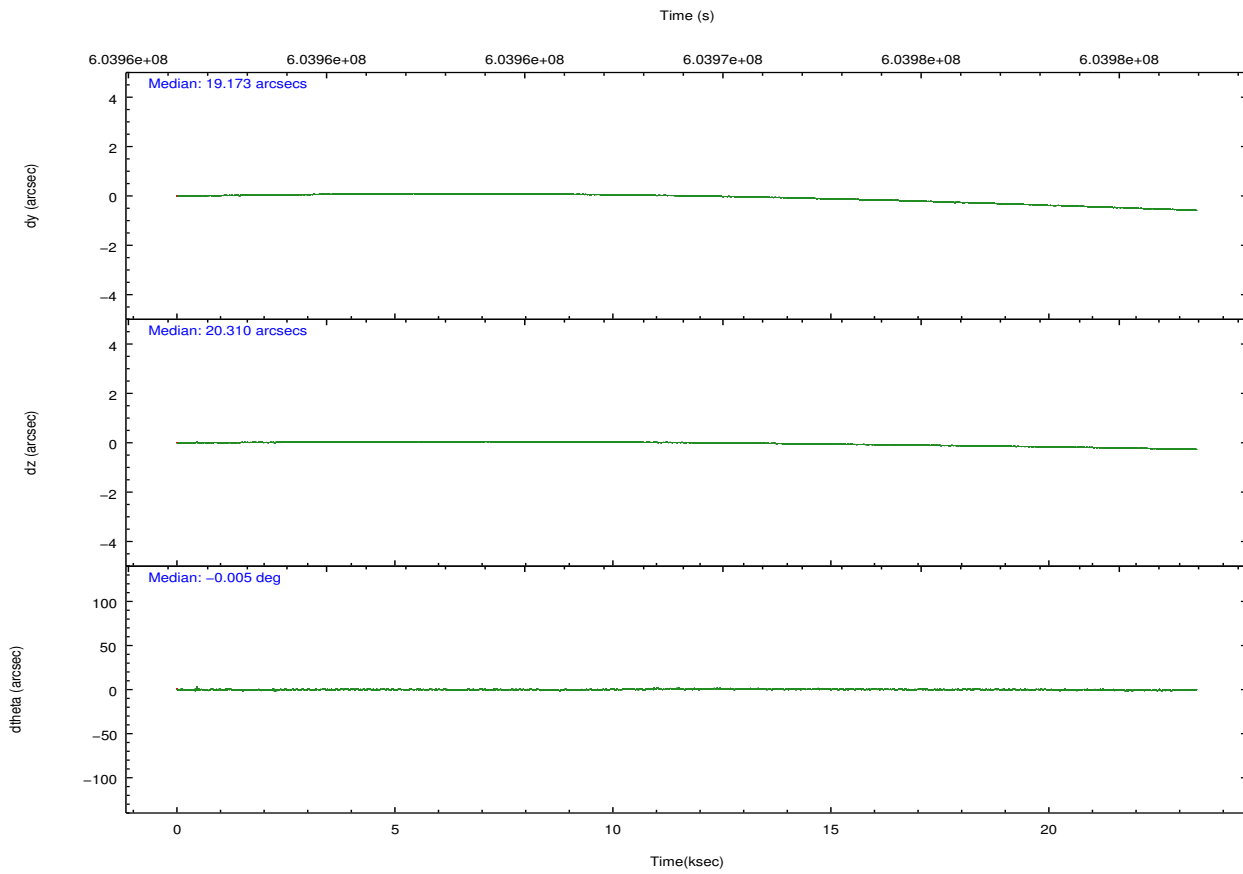
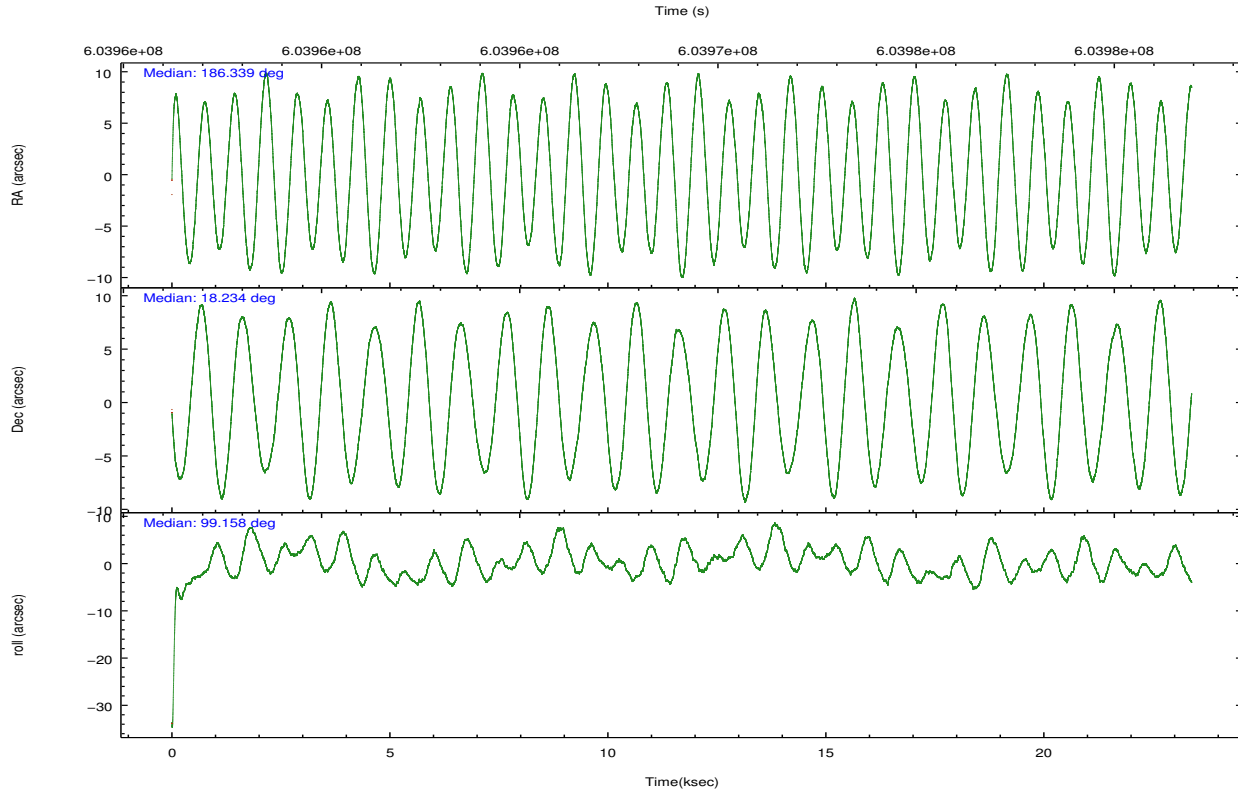
	ccd 2	ccd 6	ccd 7	ccd 8
grade 0 events	10224	5508	7447	14308
	5%	3%	3%	6%
grade 1 events	130	66	287	150
	0%	0%	0%	0%
grade 2 events	3758	4651	19380	12777
	2%	2%	9%	6%
grade 3 events	1728	1627	6417	5274
	0%	0%	3%	2%
grade 4 events	1677	1598	6432	4876
	0%	0%	3%	2%
grade 5 events	5936	6943	19235	11019
	3%	3%	9%	5%
grade 6 events	3228	4860	50407	14118
	1%	2%	23%	6%
grade 7 events	146902	150396	101450	147249
	84%	85%	48%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-2678	ACIS-2678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	186.357815	186.3392767142312	CCD I2 on	O2	Y
[deg] Pointing Dec	18.213183	18.23420393924161	CCD I3 on	O1	N
[deg] Pointing Roll	98.997676	99.16009023930974	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	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	Y	Y
[s] Observation start time (MET)	603958109.184000	603956927.83979	CCD S5 on	N	N
Observation start date	2017-02-20T06:07:20	2017-02-20T05:48:47	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	603980759.184000	603981773.84123	On-chip summing requested	N	N
Observation end date	2017-02-20T12:24:50	2017-02-20T12:42:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



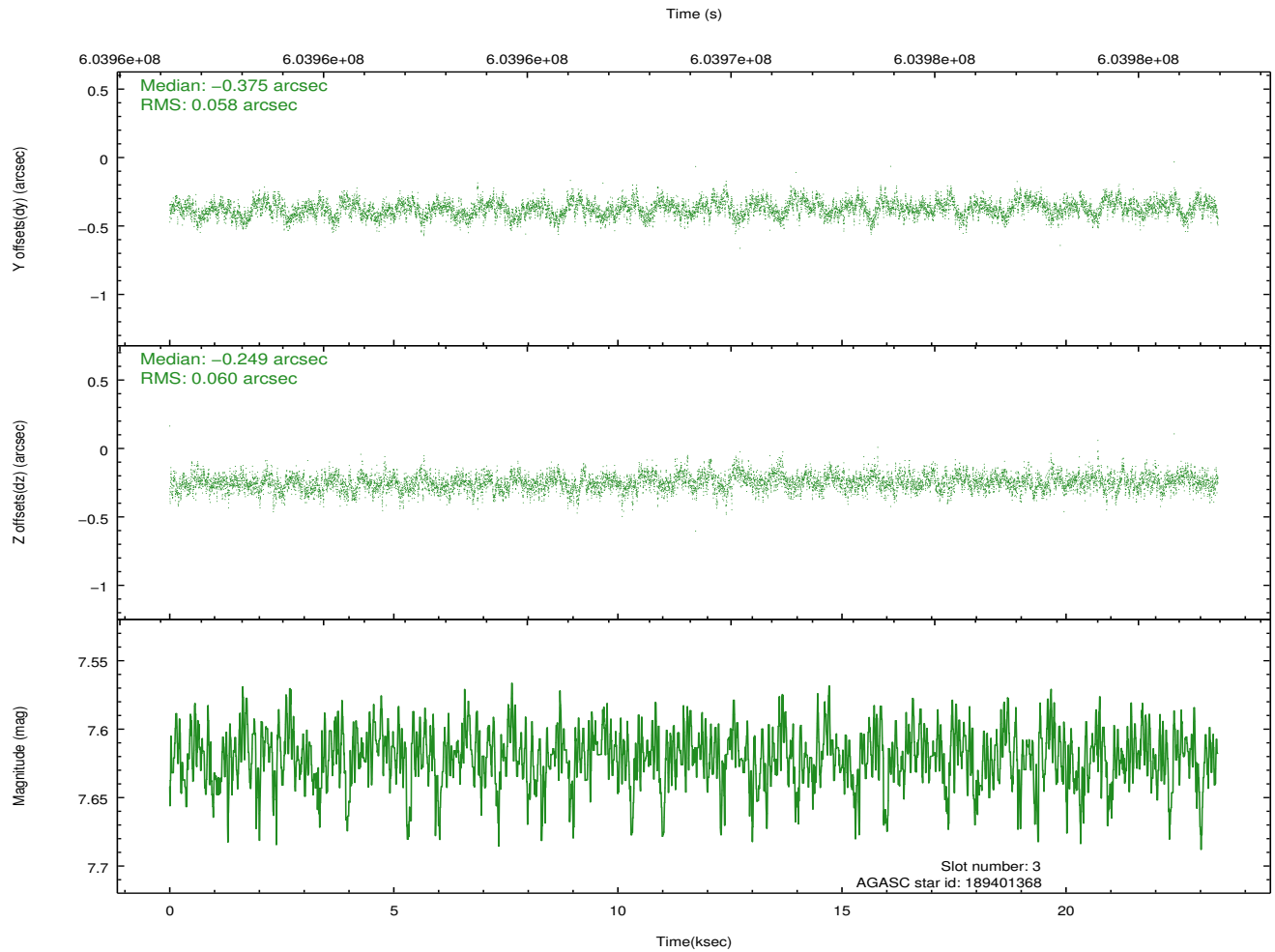
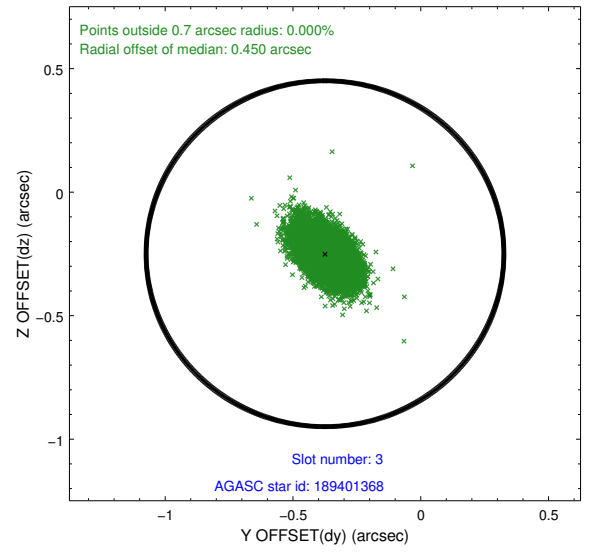
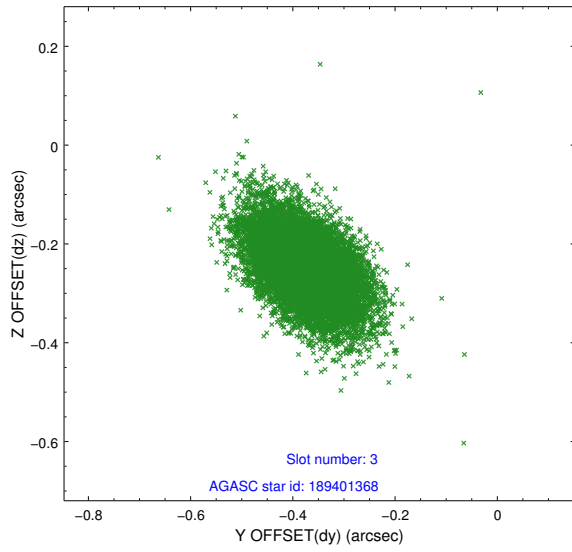


Slot Statistics

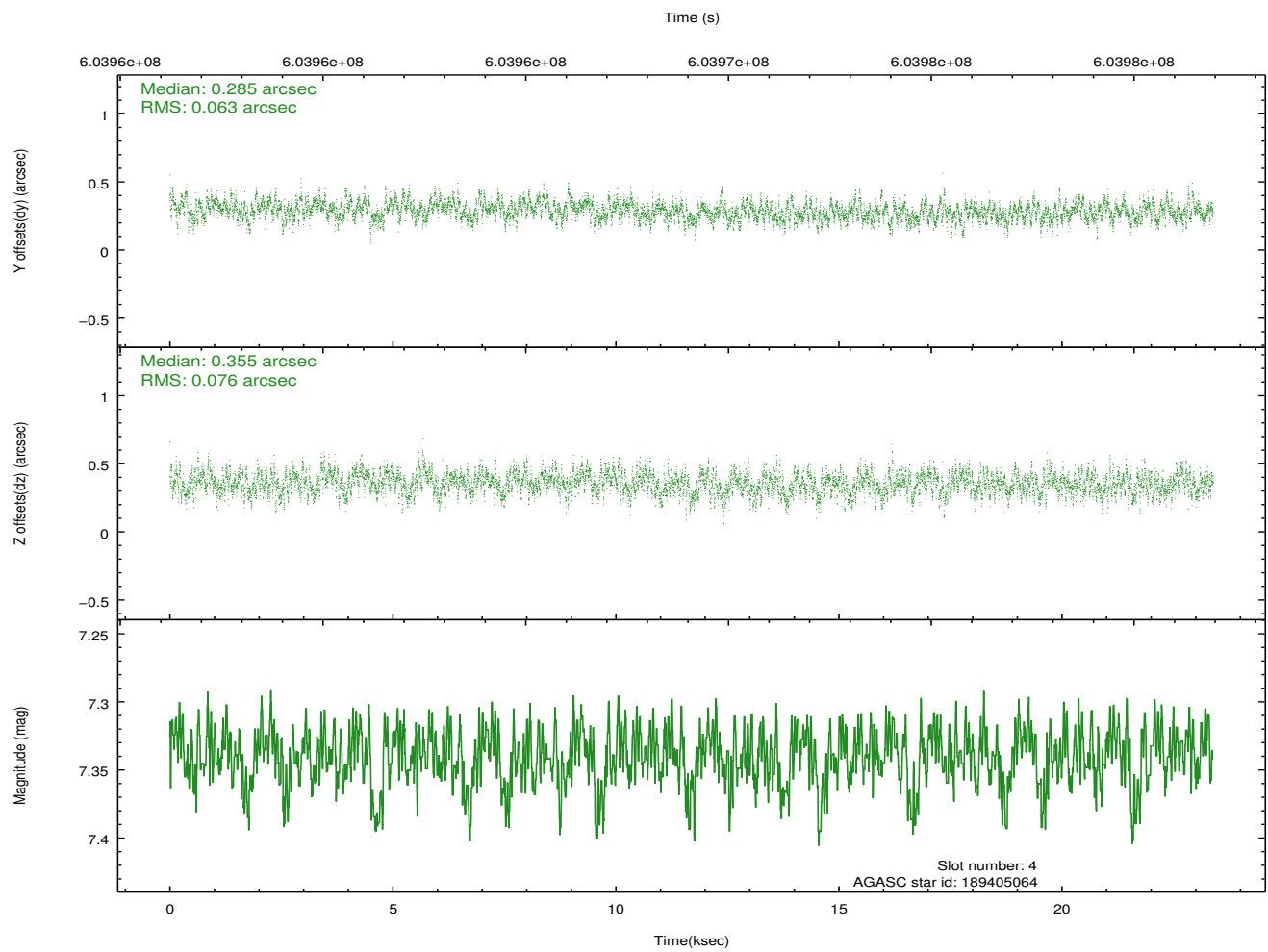
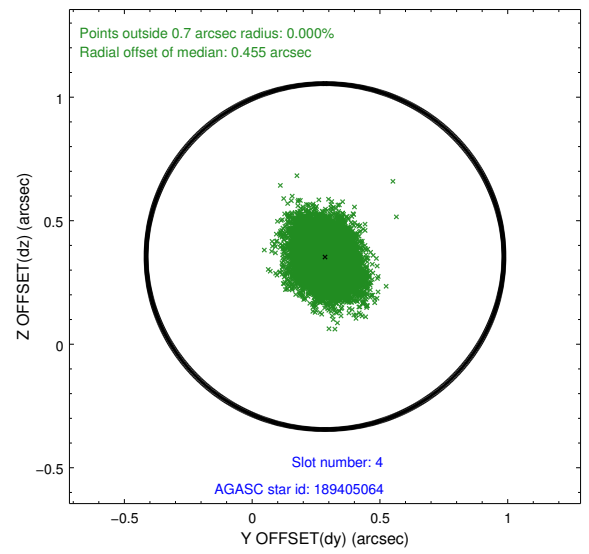
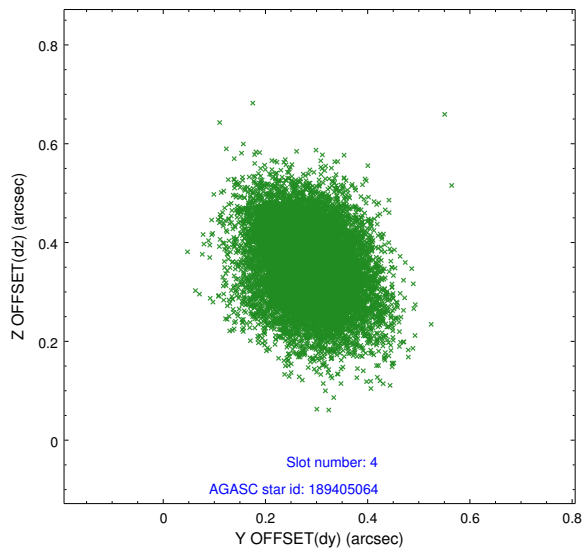
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.15	5706	-0.249	-0.148	0.015	0.021	0.000000	0.000000	-772.38	-1741.89
1	FID		ACIS-S-4	7.26	5706	0.567	0.160	0.007	0.015	0.000000	0.000000	2141.62	166.79
2	FID		ACIS-S-5	7.25	5706	-0.347	-0.004	0.015	0.020	0.000000	0.000000	-1825.17	160.41
3	GUIDE	used	189401368	7.62	11411	-0.375	-0.249	0.087	0.149	186.150770	18.668355	1729.46	441.00
4	GUIDE	used	189405064	7.34	11410	0.285	0.355	0.105	0.171	186.887888	17.834342	-1627.88	-1580.28
5	GUIDE	used	189411056	8.68	11399	0.078	-0.146	0.134	0.217	186.168211	17.852769	-1180.90	844.32
6	GUIDE	used	189665040	8.42	11405	-0.246	-0.017	0.114	0.190	186.390146	18.867028	2307.40	-476.45
7	GUIDE	used	189683448	9.06	11398	0.252	0.046	0.217	0.342	186.626682	18.890381	2266.45	-1285.84

2.4 Star Slots

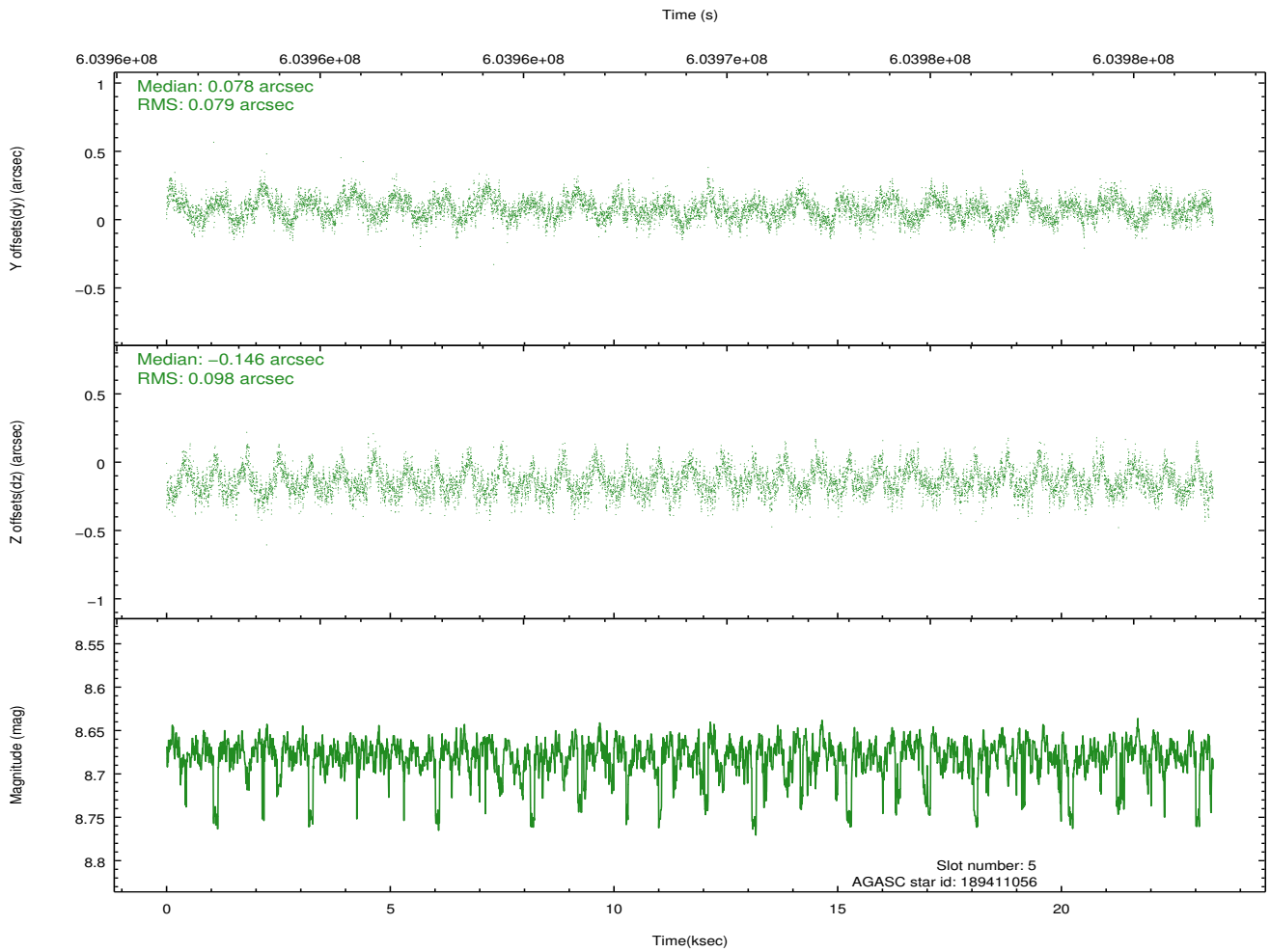
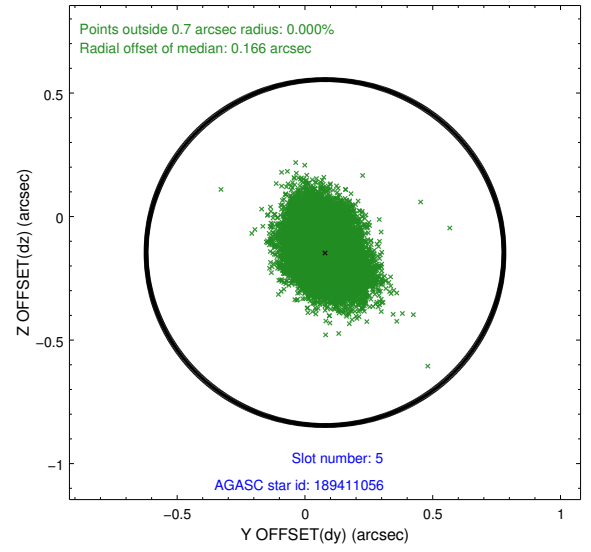
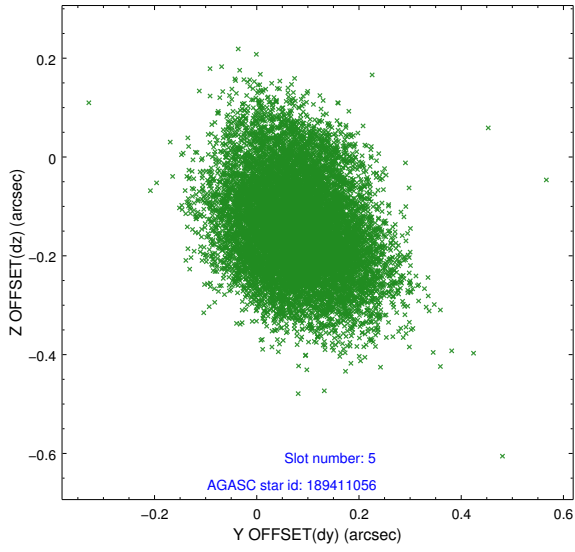
2.4.1 Slot 3



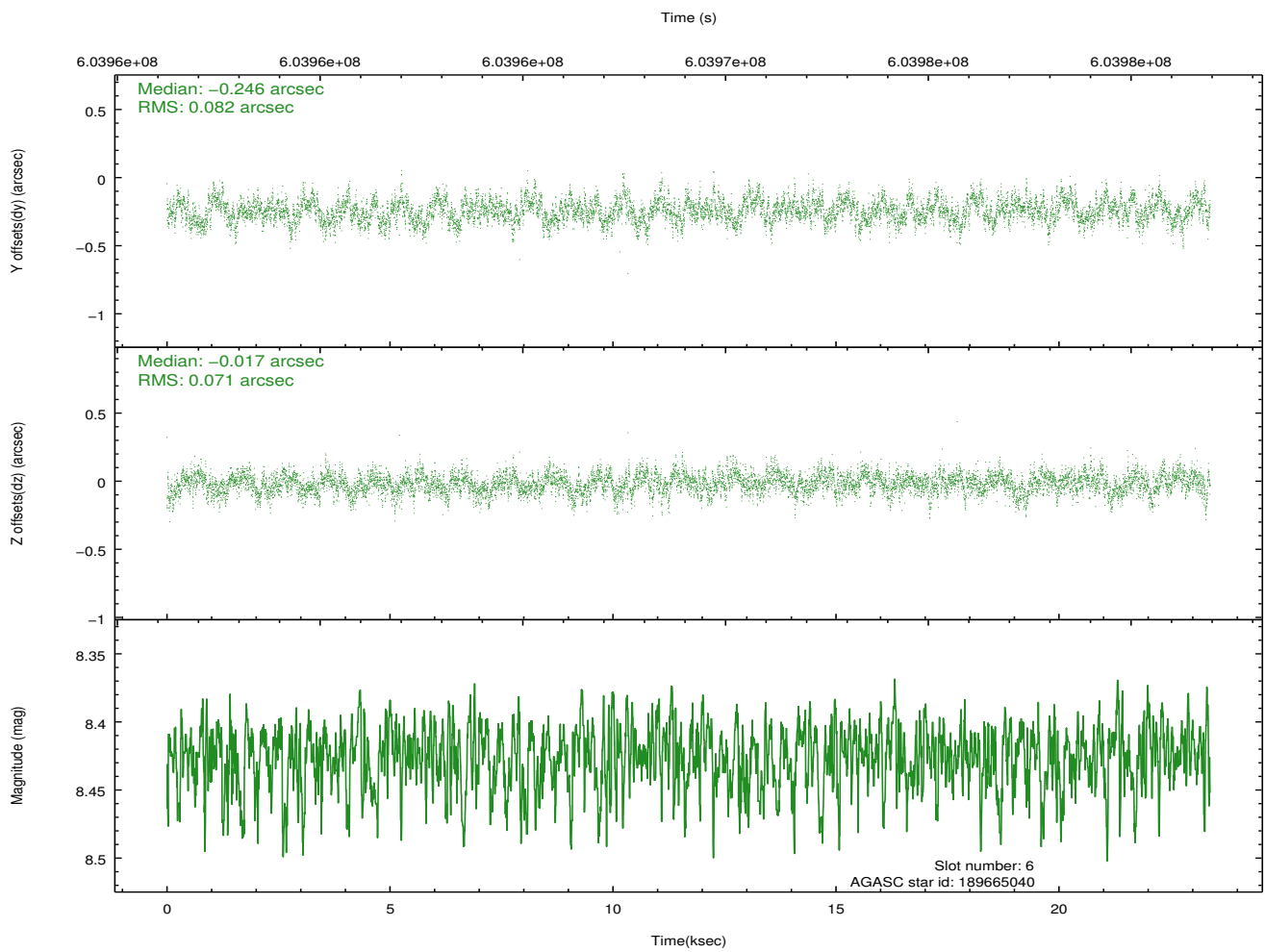
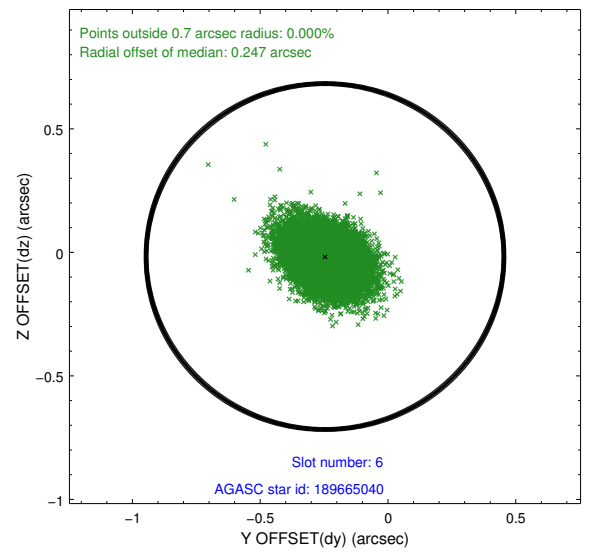
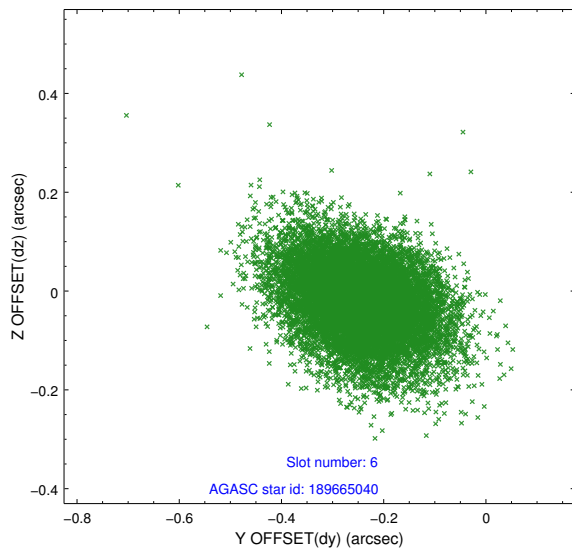
2.4.2 Slot 4



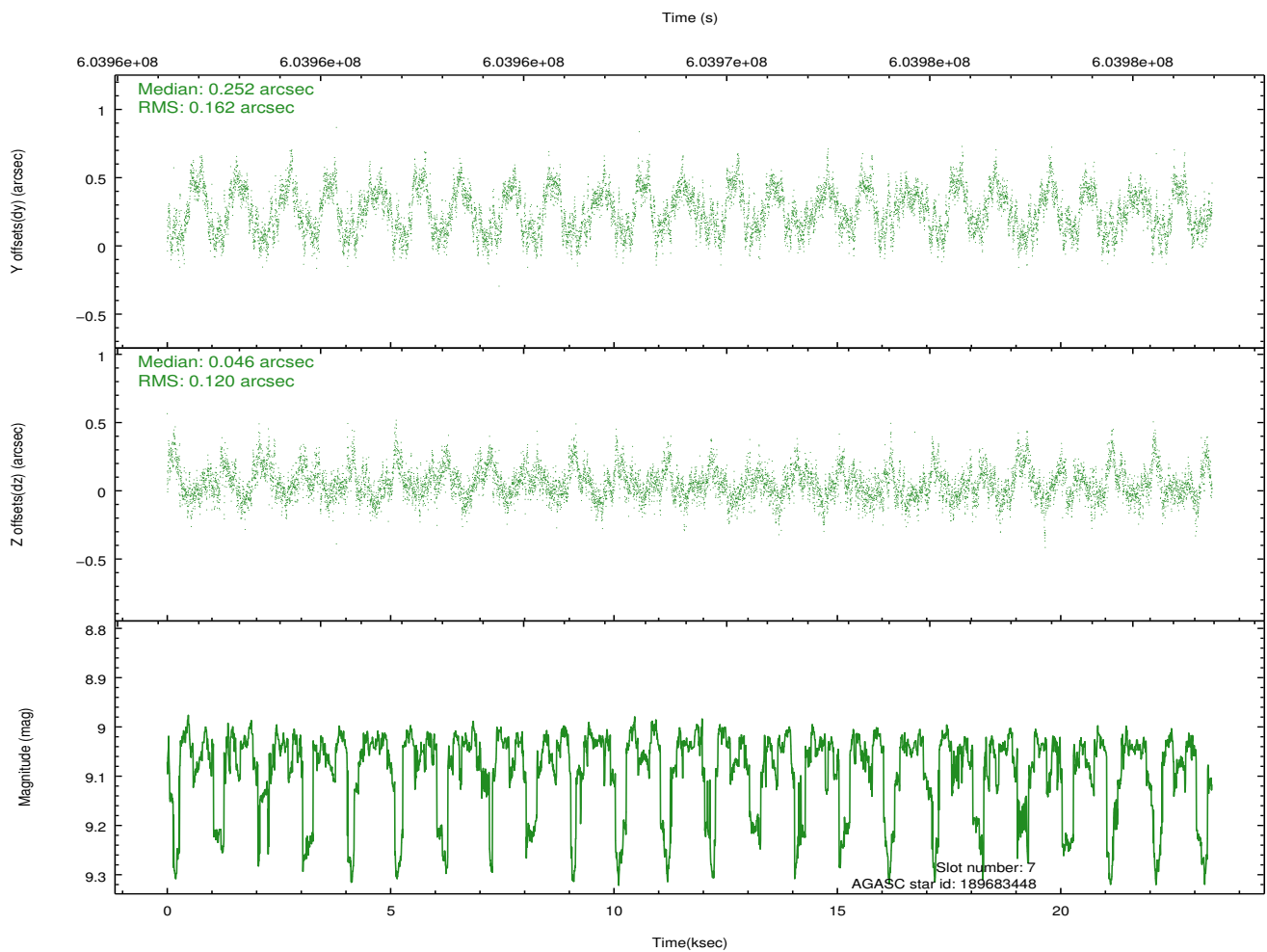
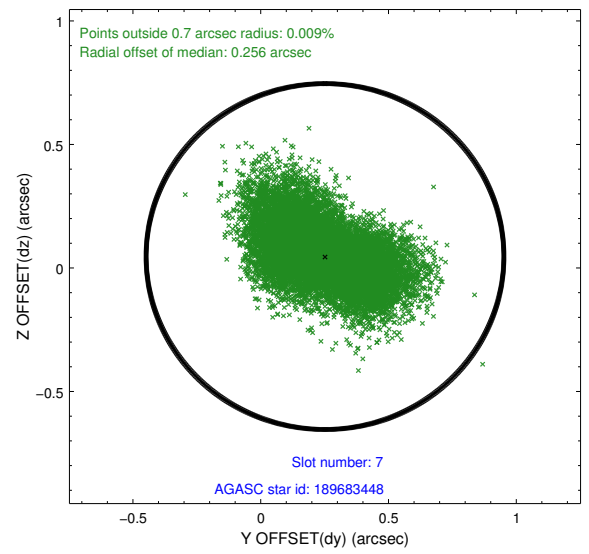
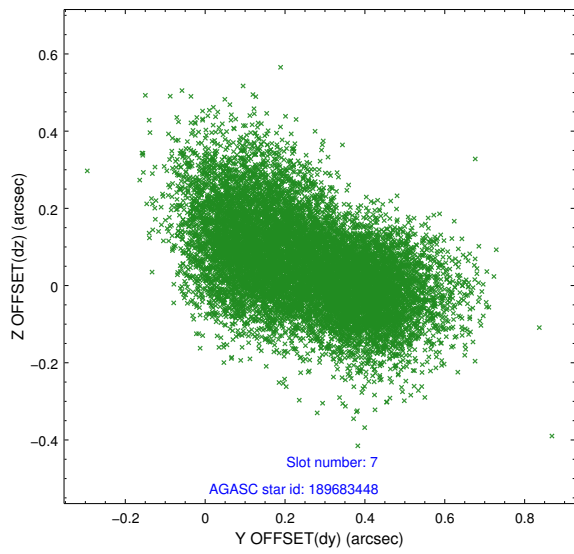
2.4.3 Slot 5



2.4.4 Slot 6

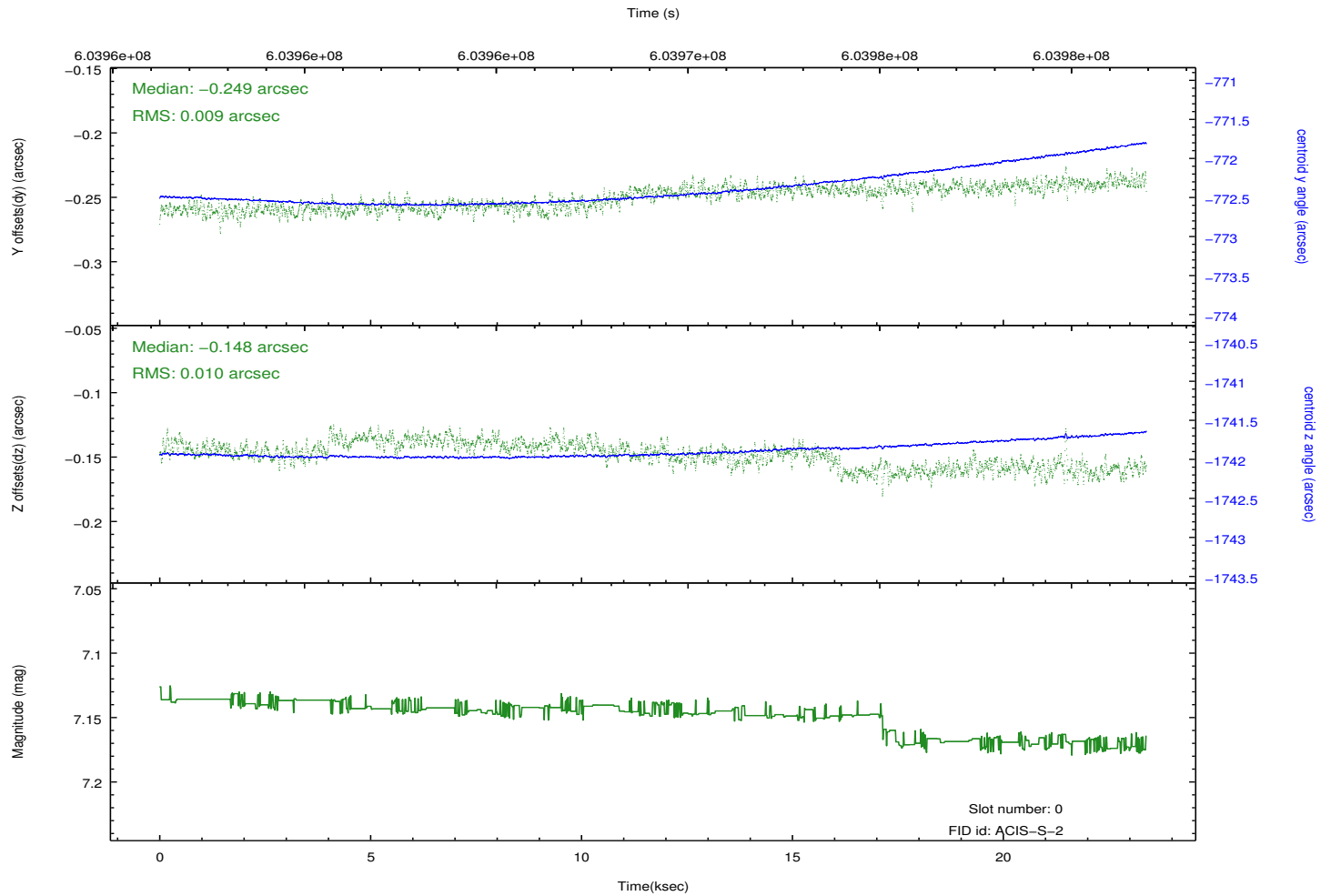
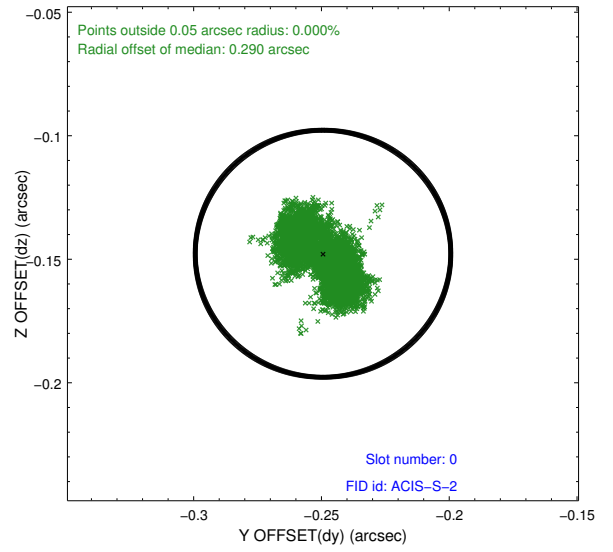
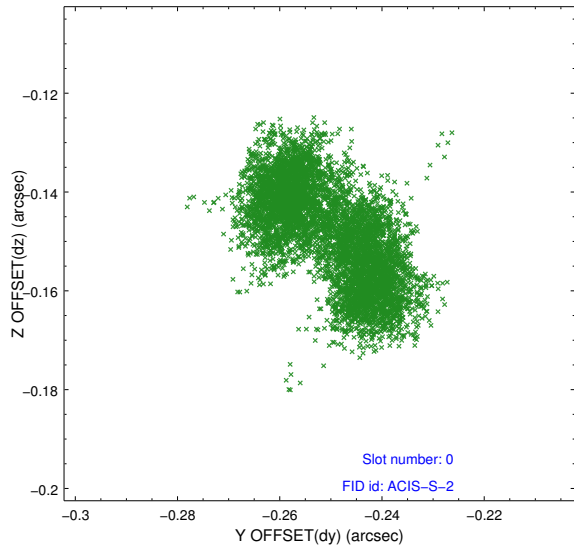


2.4.5 Slot 7

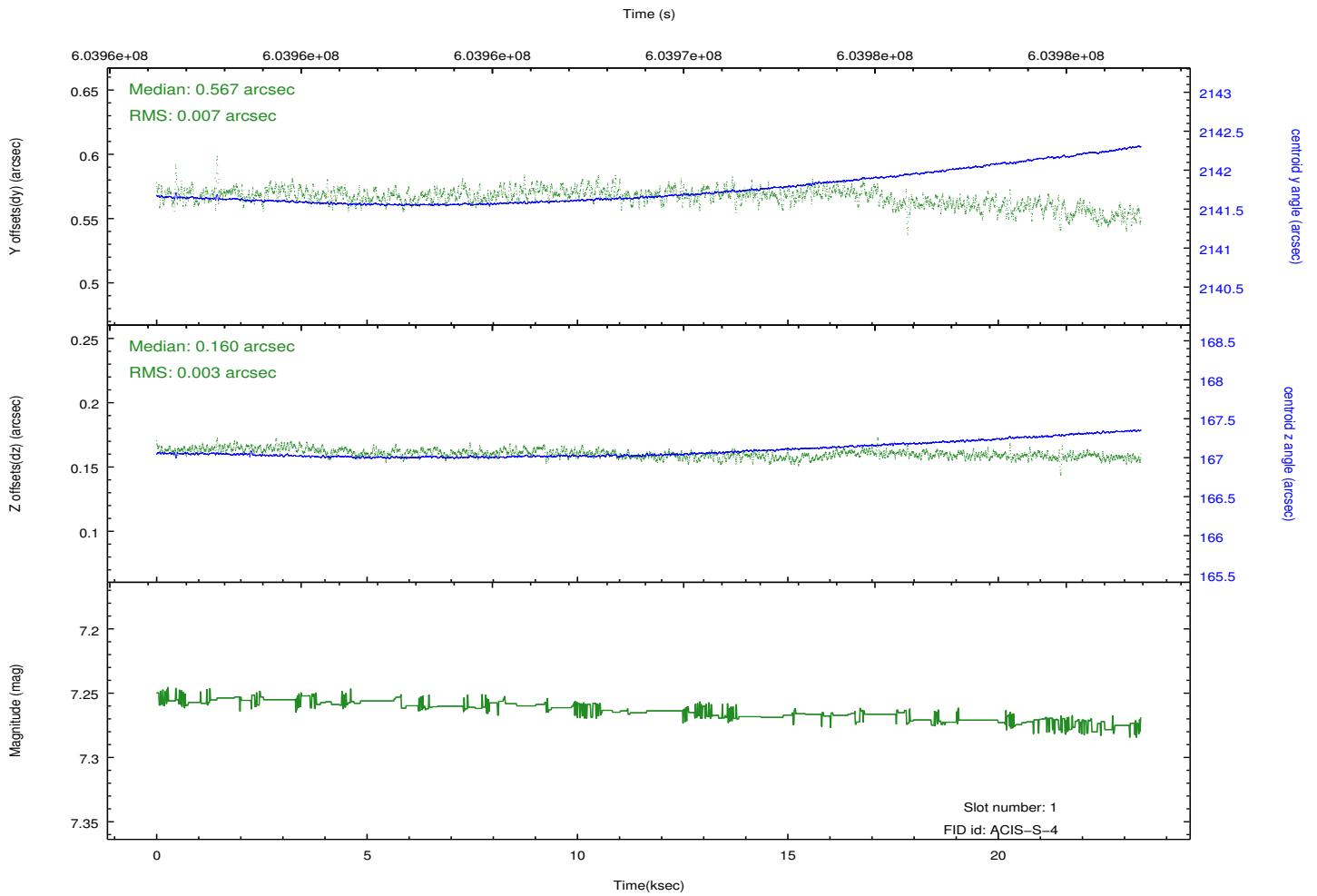
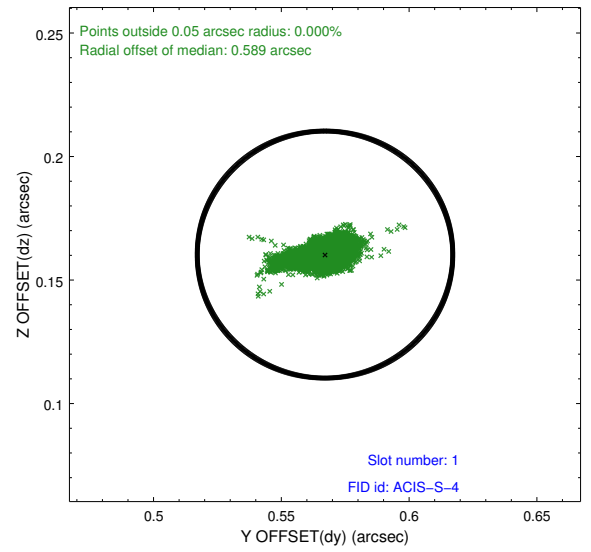
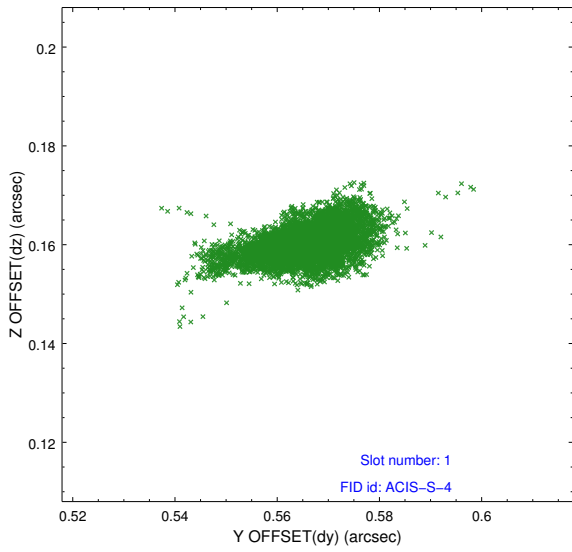


2.5 FID Slots

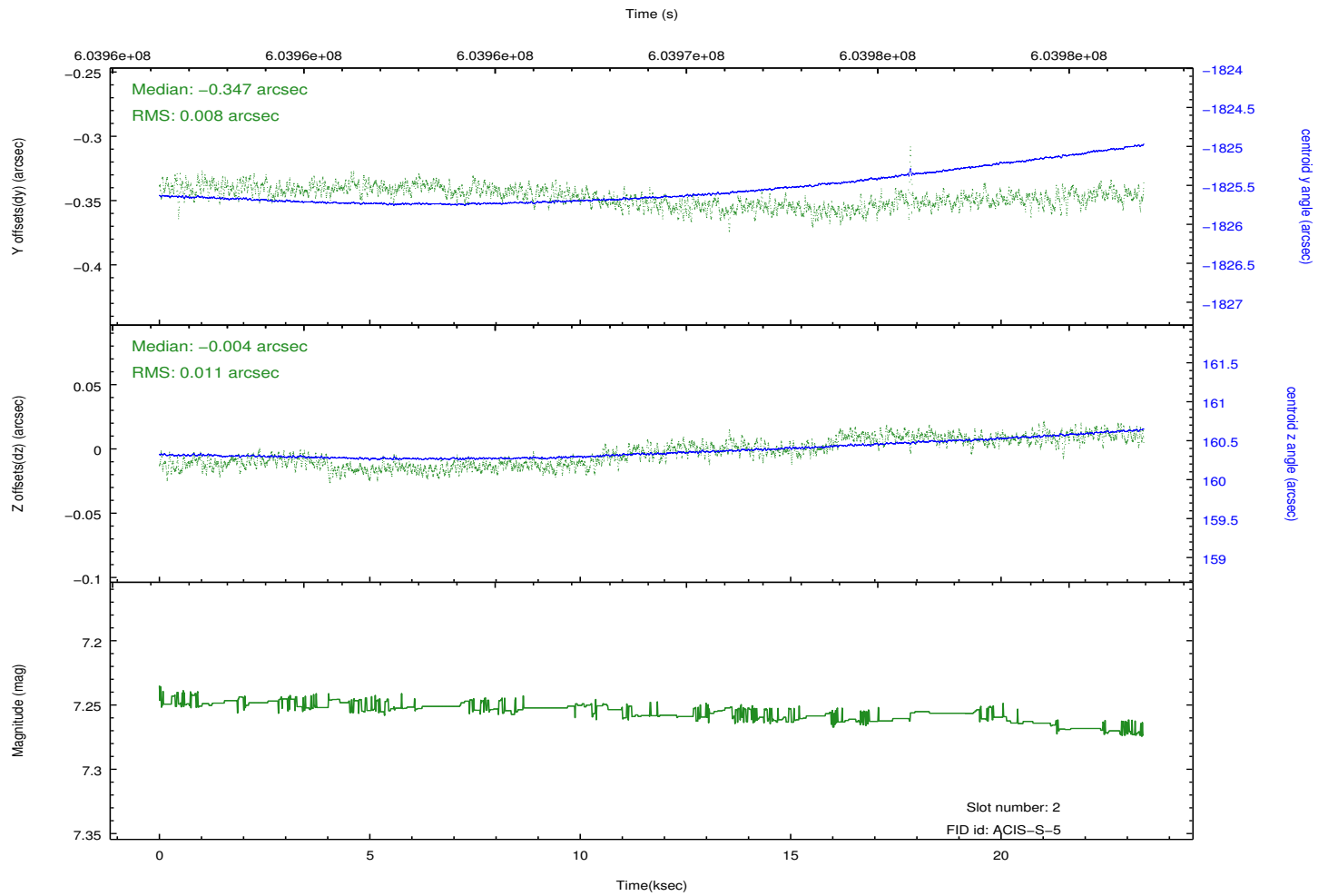
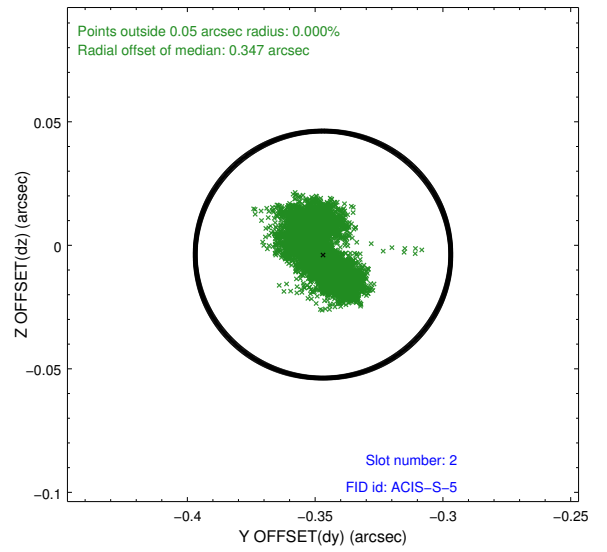
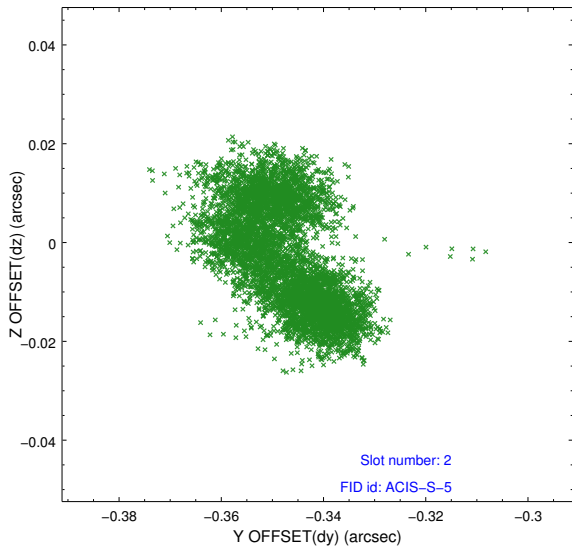
2.5.1 Slot 0



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)	2017.02.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.76330017519

A.2 Comments

Joint proposal with HST.