

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20725 - L2 Version 1
Chandra X-Ray Center

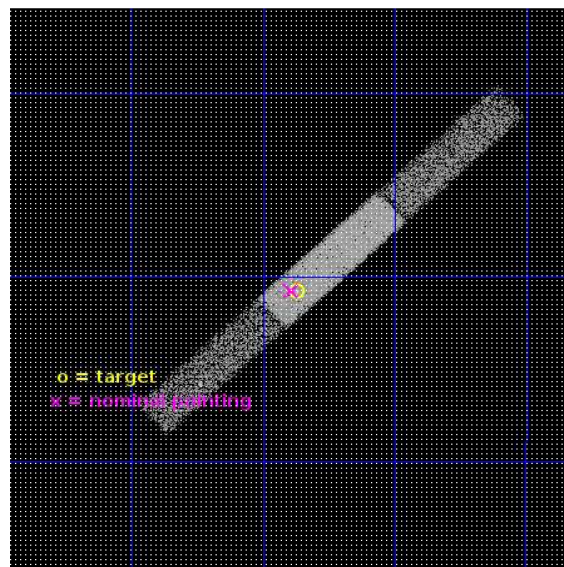
L2 Processing Date : Sep 4 2017

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1 Front

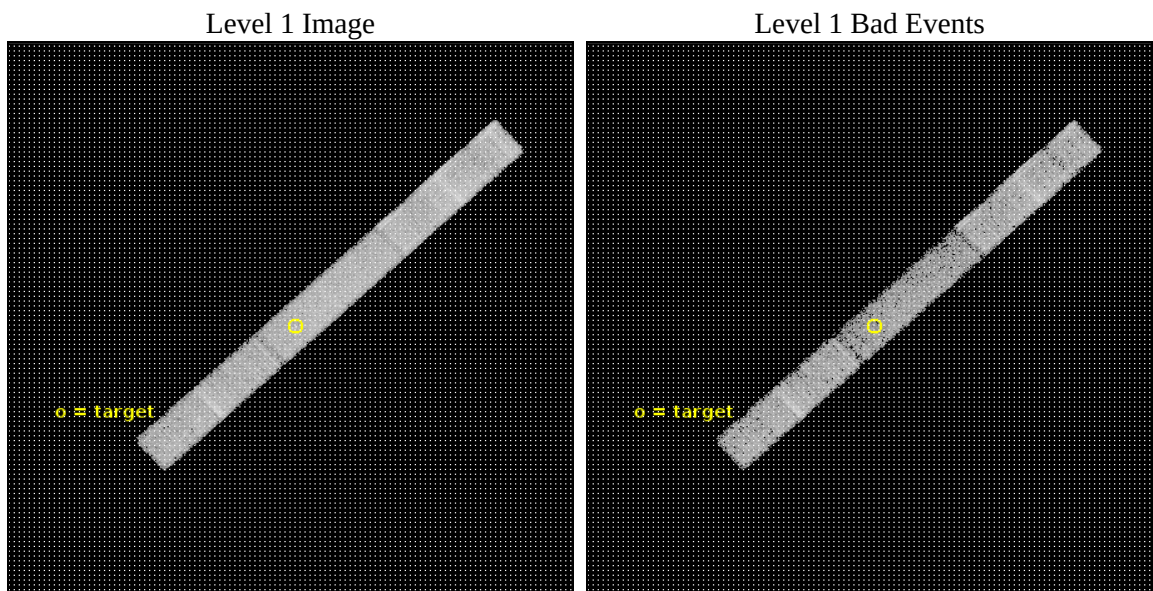
seq_num	401865	Sequence number
obs_id	20725	Observation id
title	Globular cluster neutron stars and the determination of the dense matter equation of state	Proposal title
observer	Sebastien Guillot	Principal investigator
object	M30	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	325.092083	Observer's specified target RA [deg]
dec_targ	-23.179861	Observer's specified target Dec [deg]
ra_nom	325.09771817005	Nominal RA [deg]
dec_nom	-23.179134785097	Nominal Dec [deg]
roll_nom	317.15888433108	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18284.39951551	Sum of GTIs [s]
livetime	17486.99265064	Livetime [s]
ontime6	18284.39951551	Sum of GTIs [s]
ontime7	18284.39951551	Sum of GTIs [s]
ontime8	18282.517435551	Sum of GTIs [s]
l2events	28066	Number of level 2 events



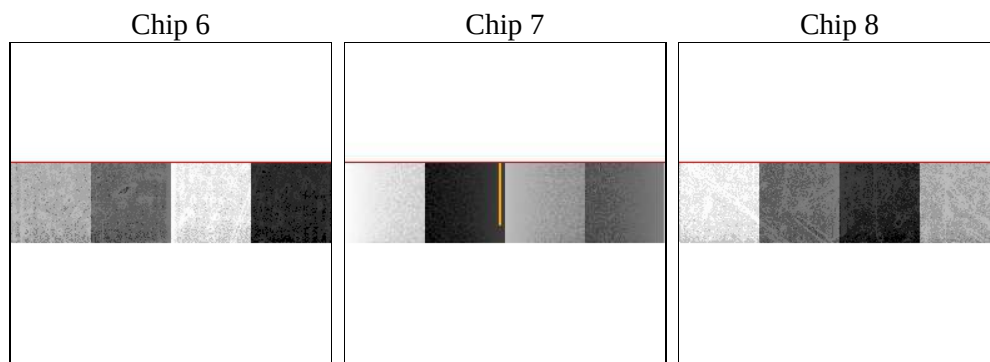
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	18200.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	18284.39951551	Sum of GTIs [s]
caldsver	4.7.6	 	ontime6	18284.39951551	Sum of GTIs [s]
date	2017-09-05T01:45:38	Date and time of file creation	ontime7	18284.39951551	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	18282.517435551	Sum of GTIs [s]
			l1events	134448	Number of level 1 events

2.1.4 Events

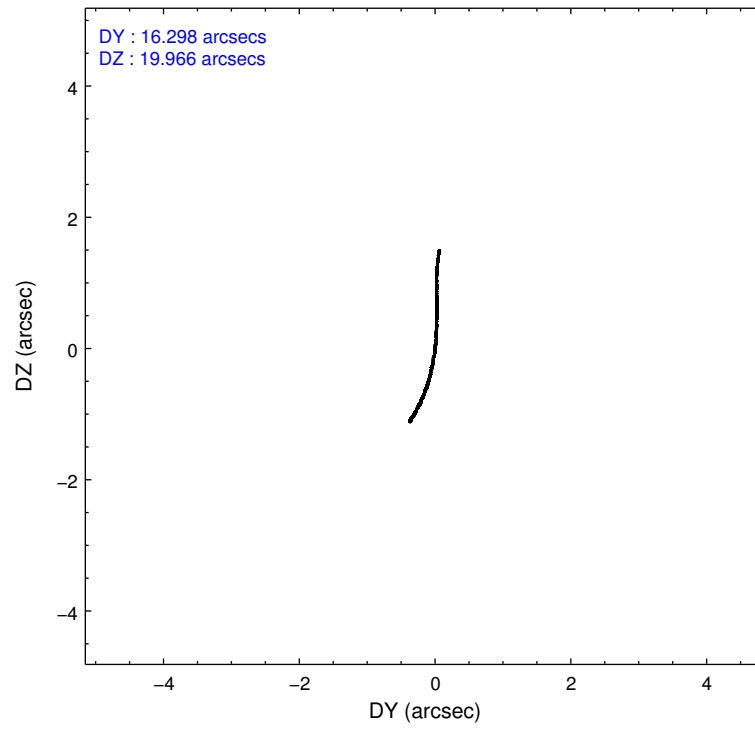
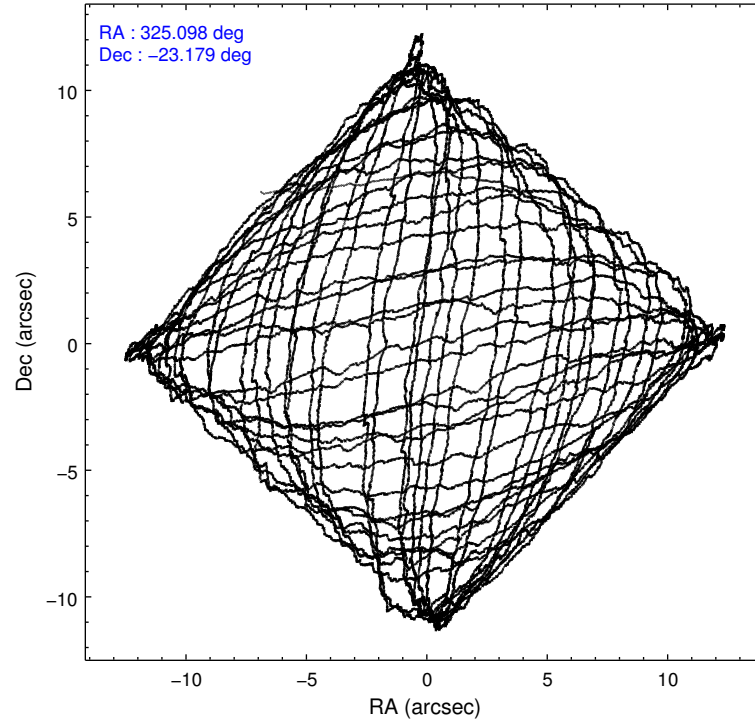
	ccd 6	ccd 7	ccd 8
level 1 events	38201	44022	52225
rejected events	33596	23325	38731
rejected %	87%	52%	74%

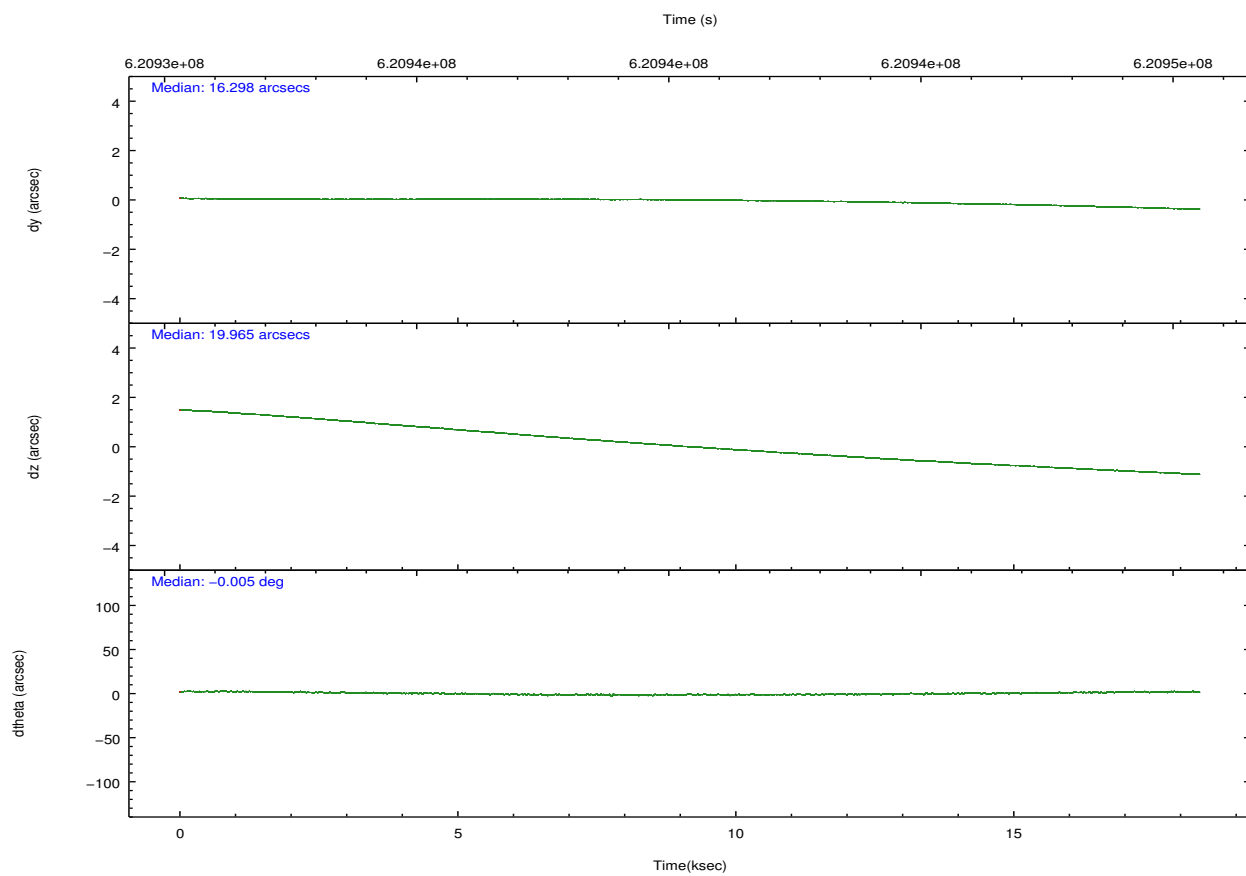
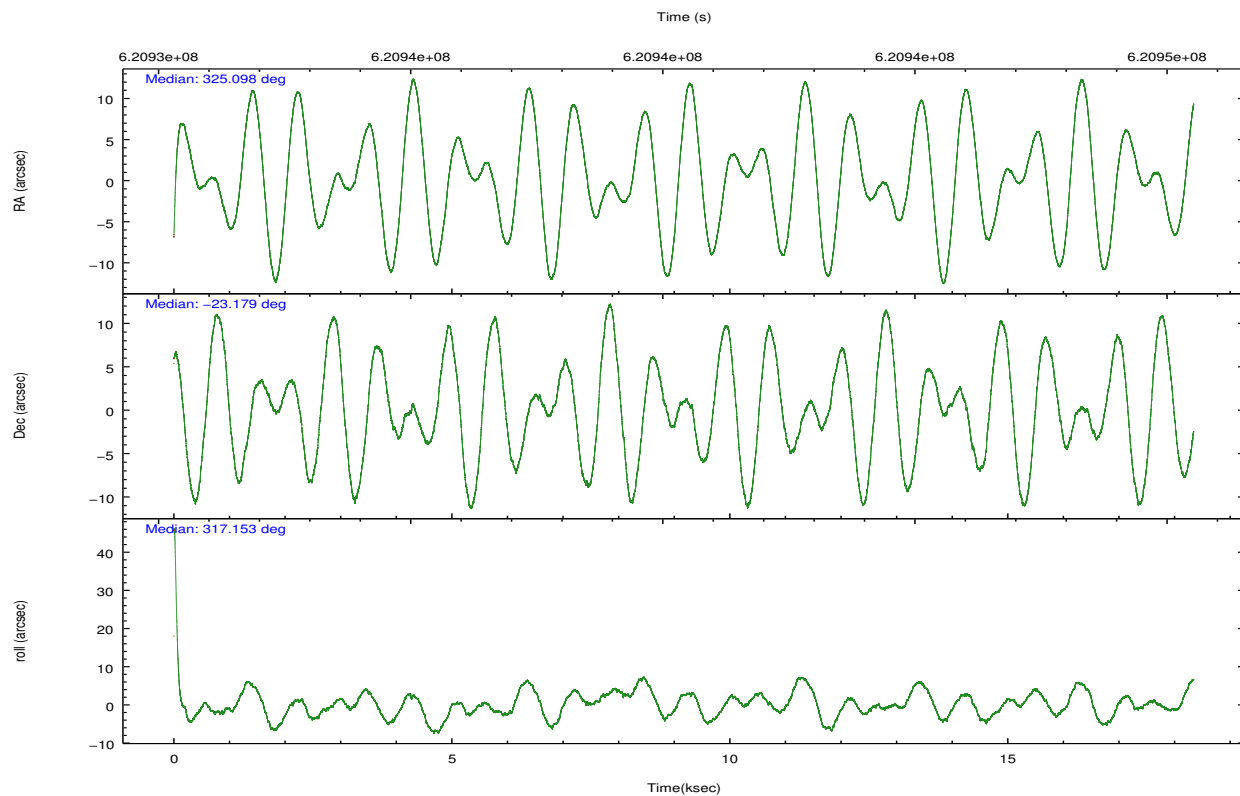
	ccd 6	ccd 7	ccd 8
grade 0 events	1483	2043	3491
	3%	4%	6%
grade 1 events	16	78	21
	0%	0%	0%
grade 2 events	896	4464	3080
	2%	10%	5%
grade 3 events	719	2178	1471
	1%	4%	2%
grade 4 events	627	2188	1334
	1%	4%	2%
grade 5 events	1667	4777	2274
	4%	10%	4%
grade 6 events	880	9831	4119
	2%	22%	7%
grade 7 events	31913	18463	36435
	83%	41%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	325.068513	325.0977181700521	CCD I2 on	N	N
[deg] Pointing Dec	-23.173375	-23.1791347850973	CCD I3 on	N	N
[deg] Pointing Roll	316.990729	317.1588843310758	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	O2	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	O1	Y
[s] Observation start time (MET)	620931389.184000	620930054.50264	CCD S5 on	N	N
Observation start date	2017-09-04T16:55:20	2017-09-04T16:34:14	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	620949589.184000	620950616.00384	On-chip summing requested	N	N
Observation end date	2017-09-04T21:58:40	2017-09-04T22:16:56	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0.9

2.3 Aspect



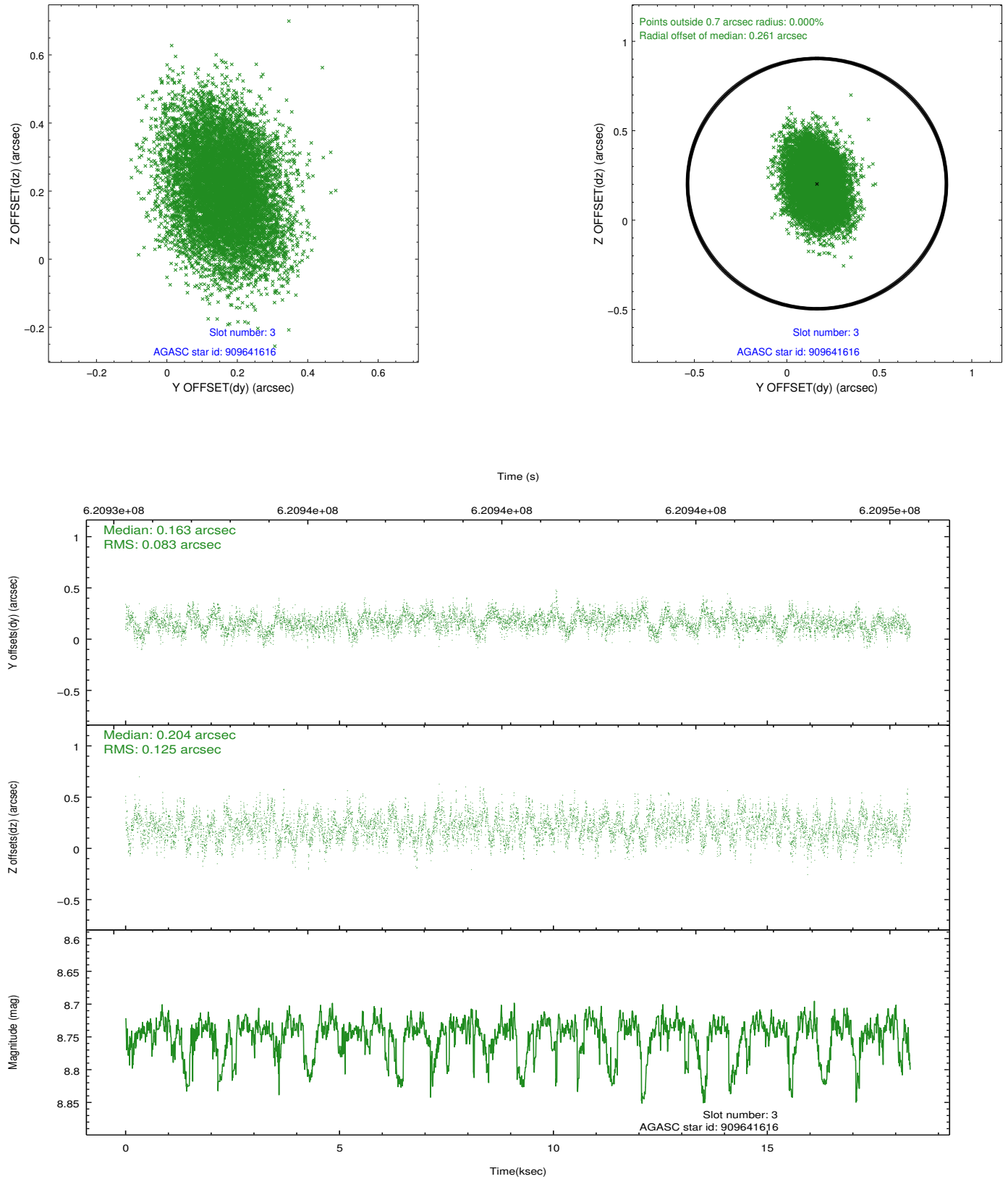


Slot Statistics

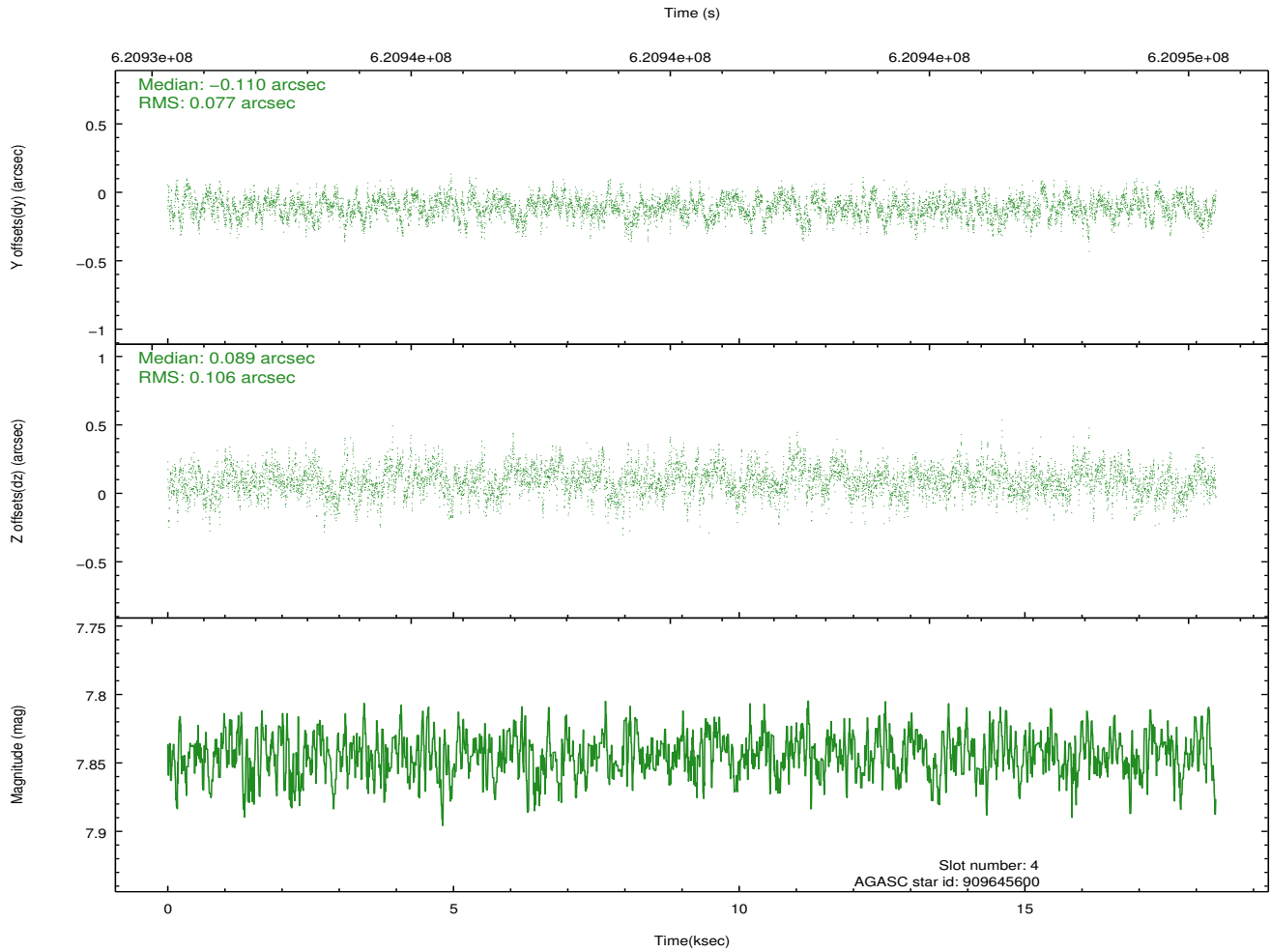
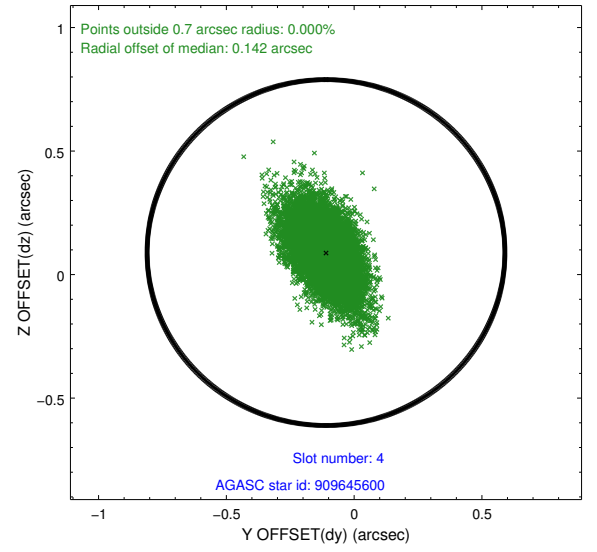
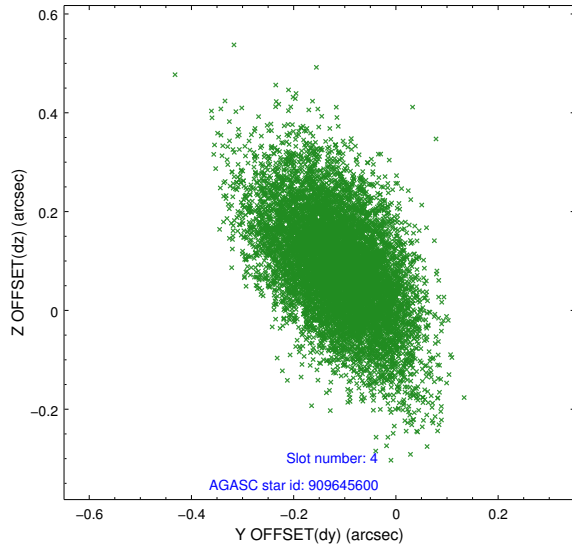
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.02	4473	-0.216	-0.095	0.017	0.028	0.000000	0.000000	-769.42	-1741.62
1	FID		ACIS-S-4	7.14	4475	0.483	0.130	0.013	0.031	0.000000	0.000000	2144.41	166.91
2	FID		ACIS-S-5	7.13	4474	-0.293	-0.025	0.018	0.033	0.000000	0.000000	-1822.10	160.60
3	GUIDE	used	909641616	8.74	8948	0.163	0.204	0.159	0.261	324.489766	-23.068367	-1656.21	-1034.83
4	GUIDE	used	909645600	7.84	8946	-0.110	0.089	0.134	0.237	325.172177	-23.906191	2049.28	-1696.31
5	GUIDE	used	909647192	8.99	8944	0.543	0.334	0.153	0.255	324.987552	-23.199068	-131.68	-250.24
6	GUIDE	used	909643176	7.21	8948	-0.255	-0.237	0.124	0.212	325.747031	-23.170469	1638.42	1535.59
7	GUIDE	used	909644560	8.48	8942	-0.339	-0.393	0.131	0.228	325.777369	-23.053879	1427.44	1912.06

2.4 Star Slots

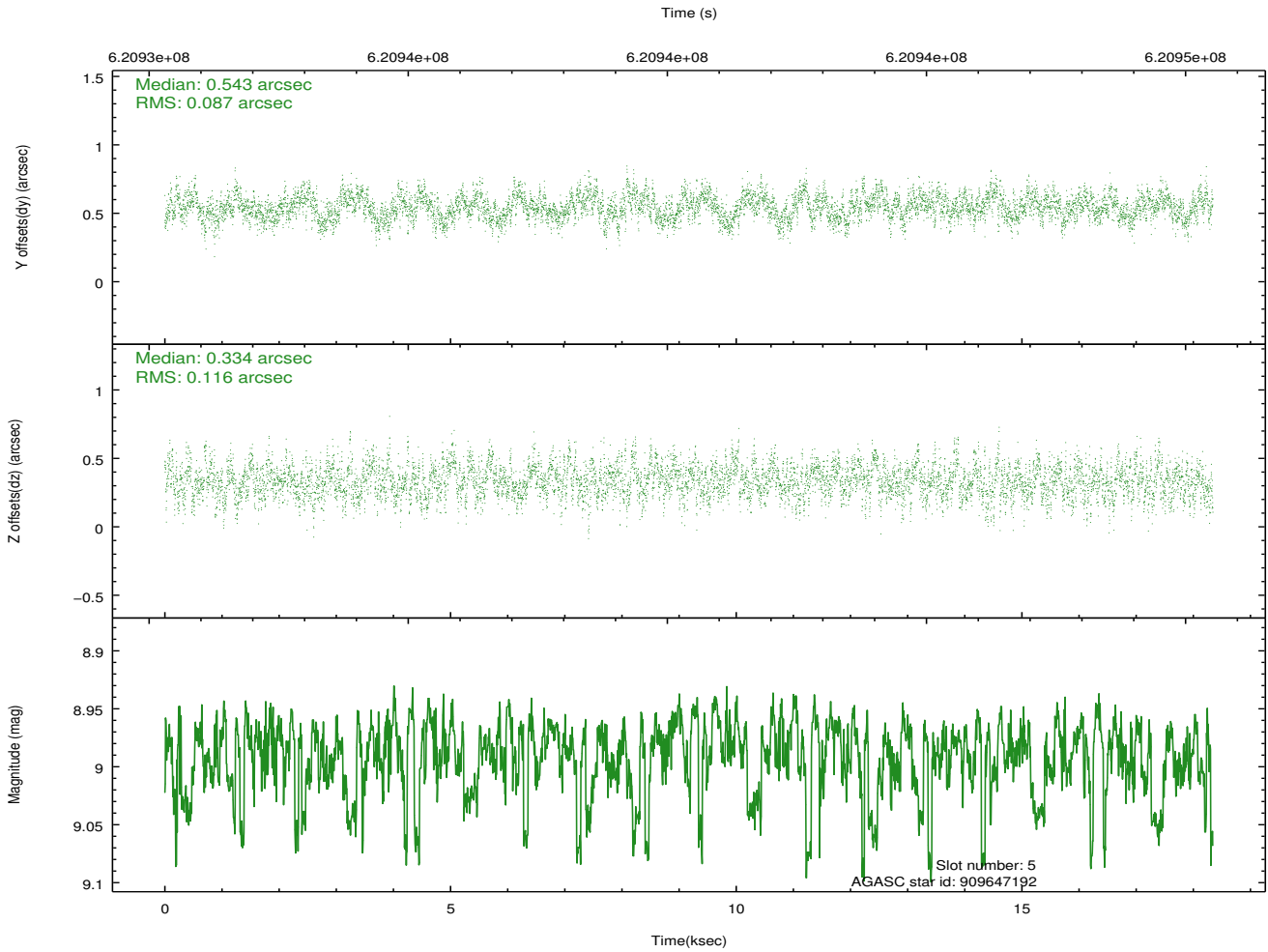
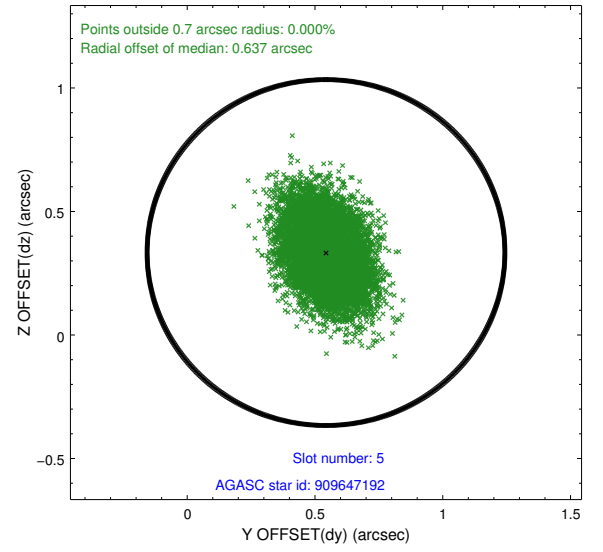
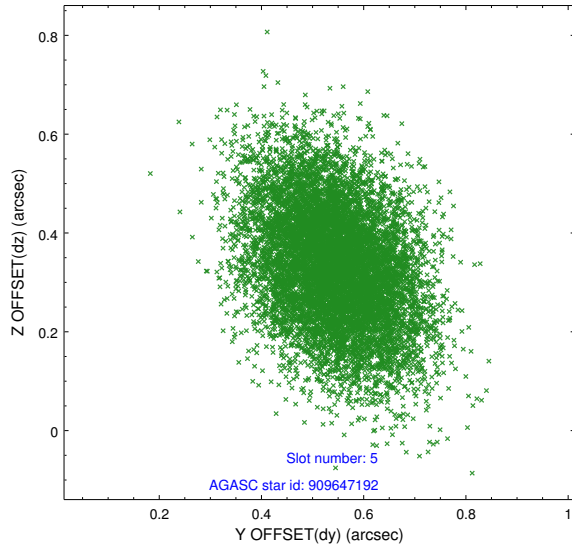
2.4.1 Slot 3



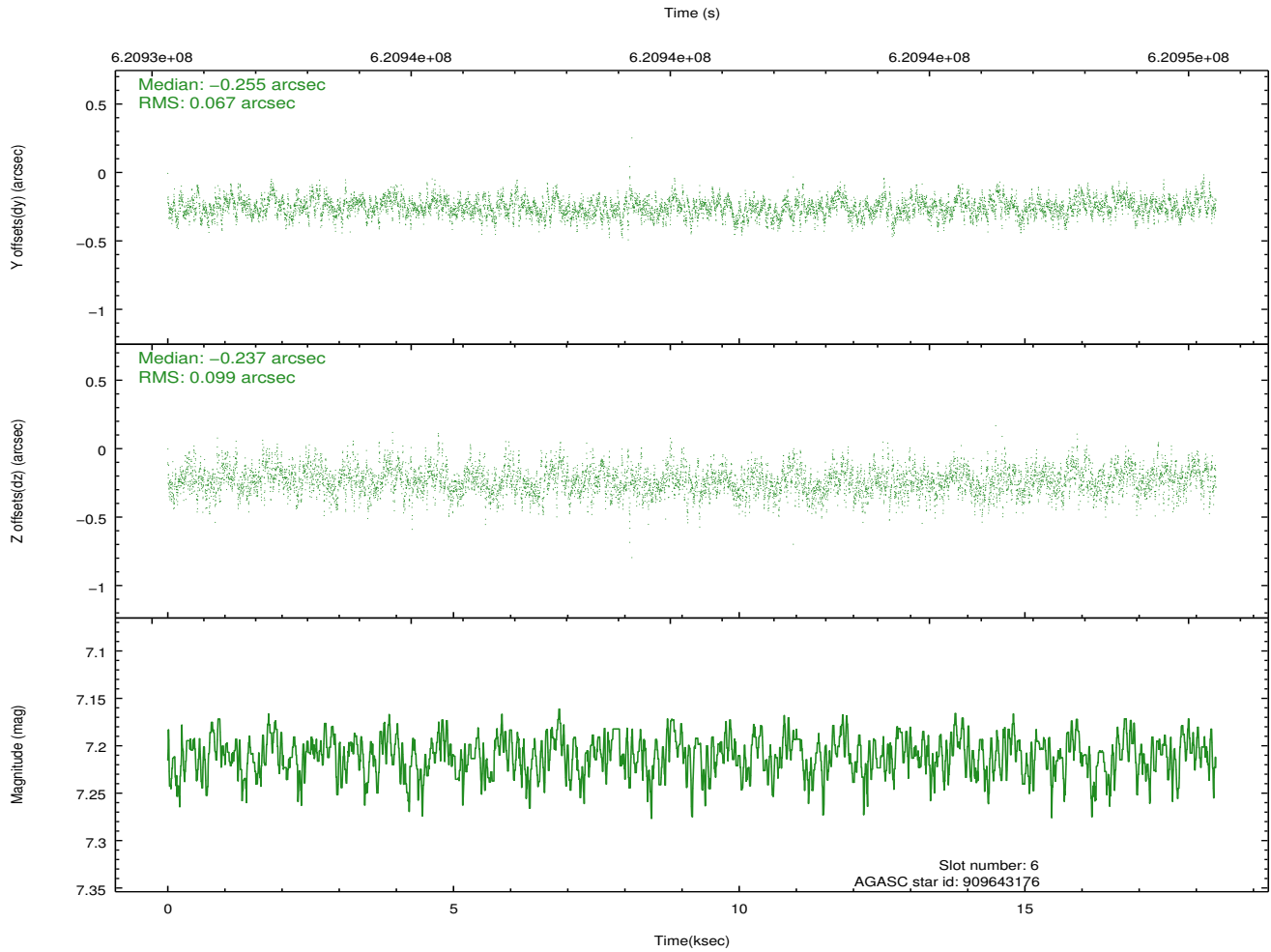
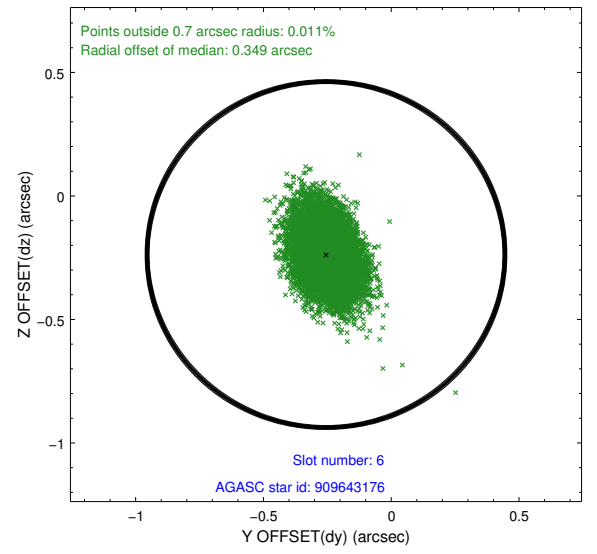
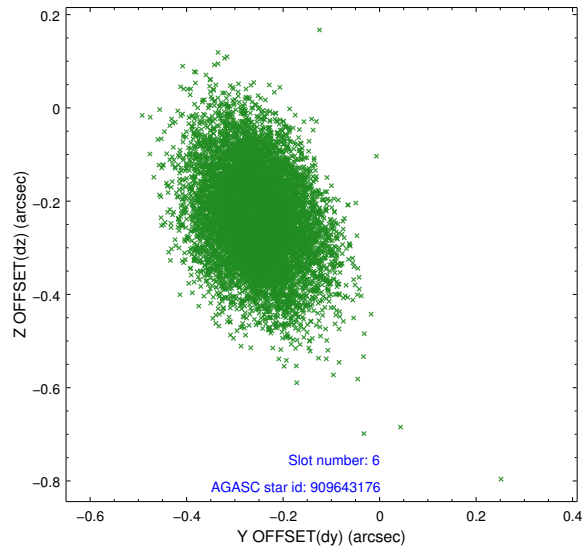
2.4.2 Slot 4



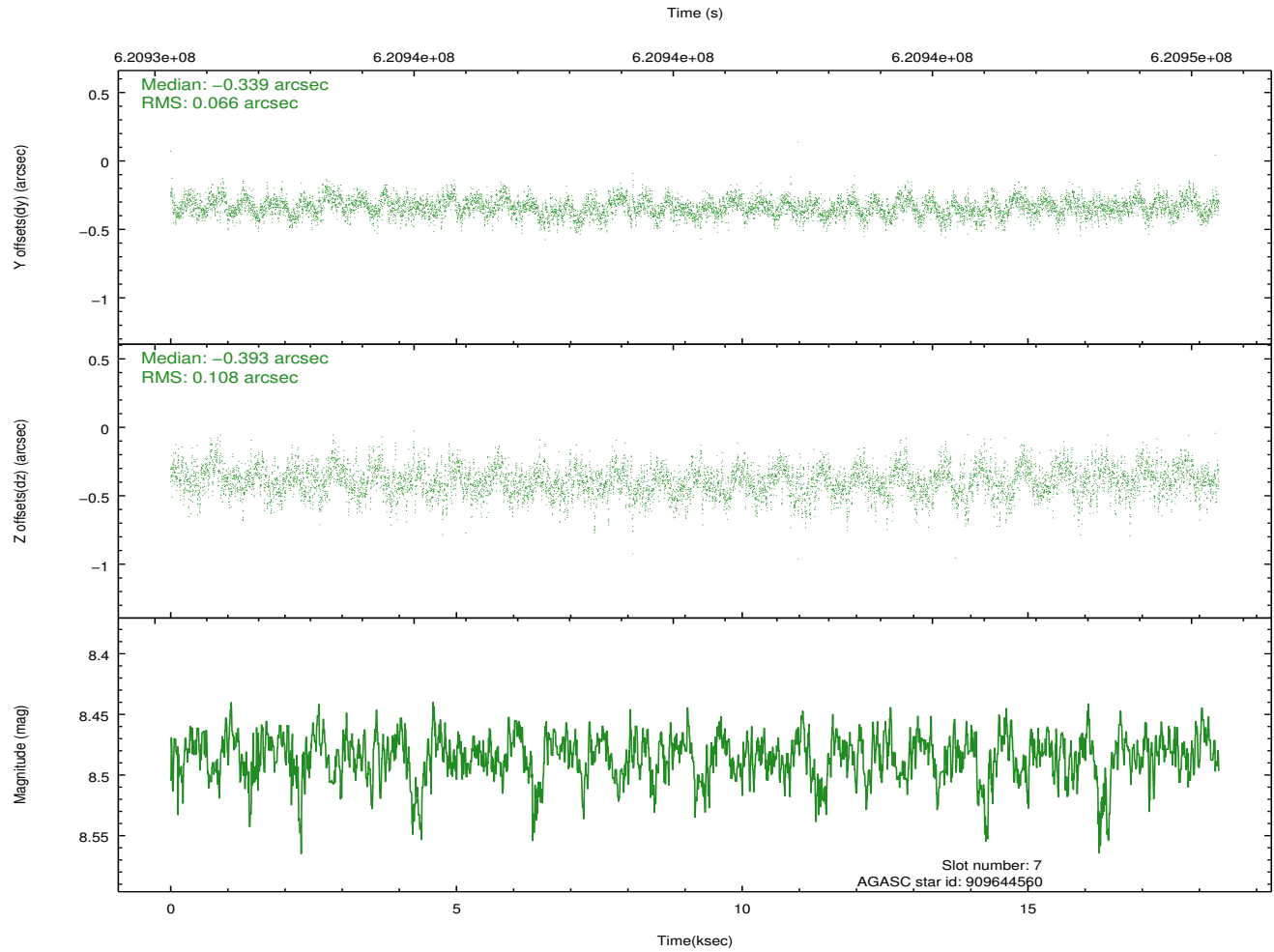
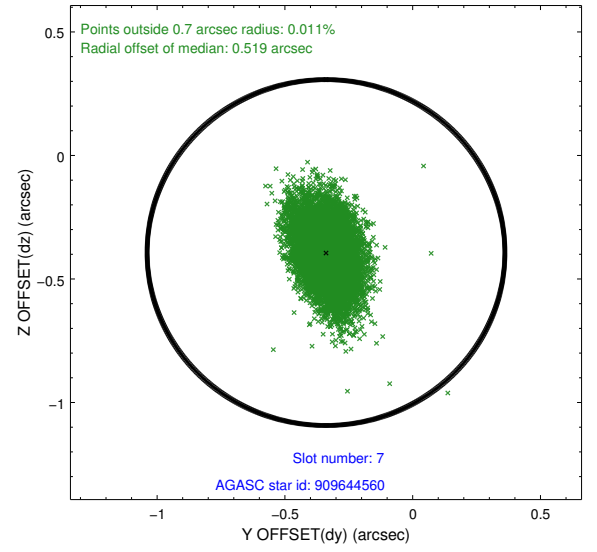
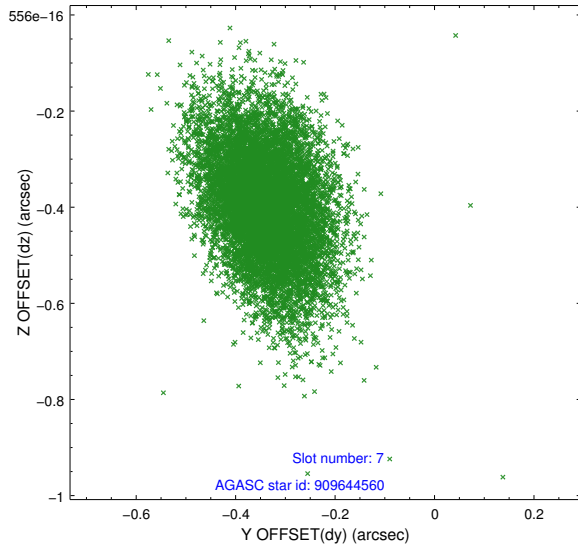
2.4.3 Slot 5



2.4.4 Slot 6

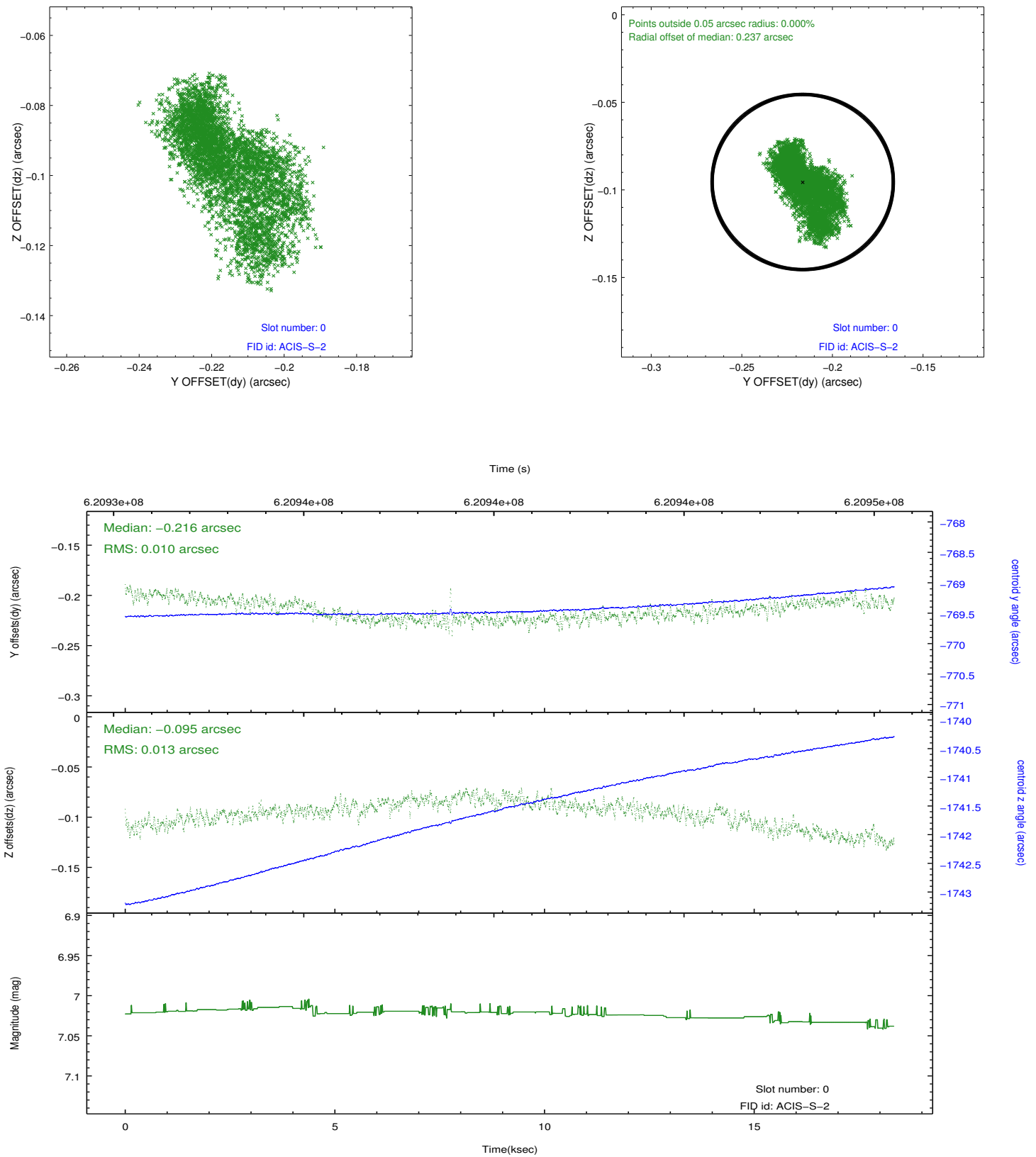


2.4.5 Slot 7

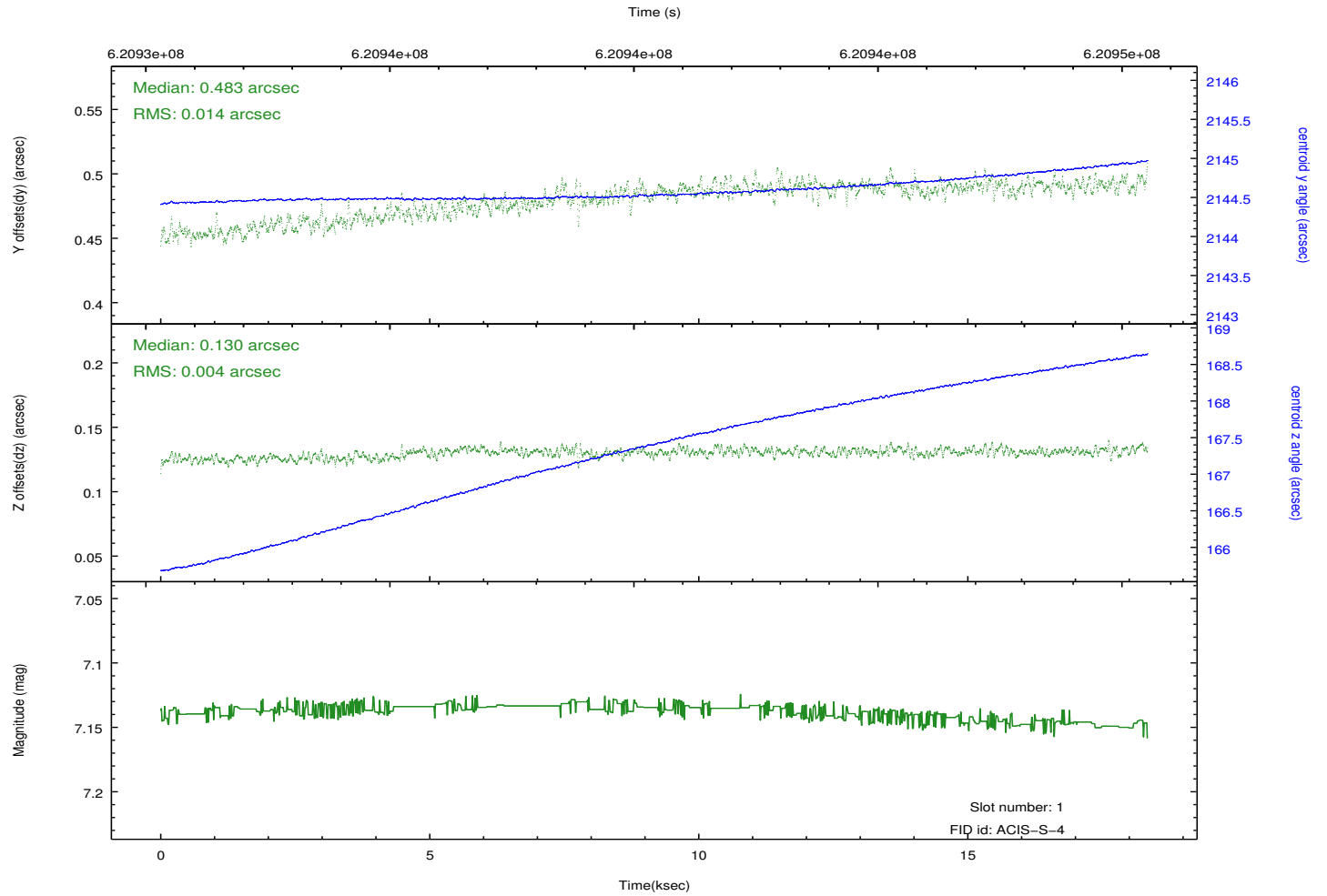
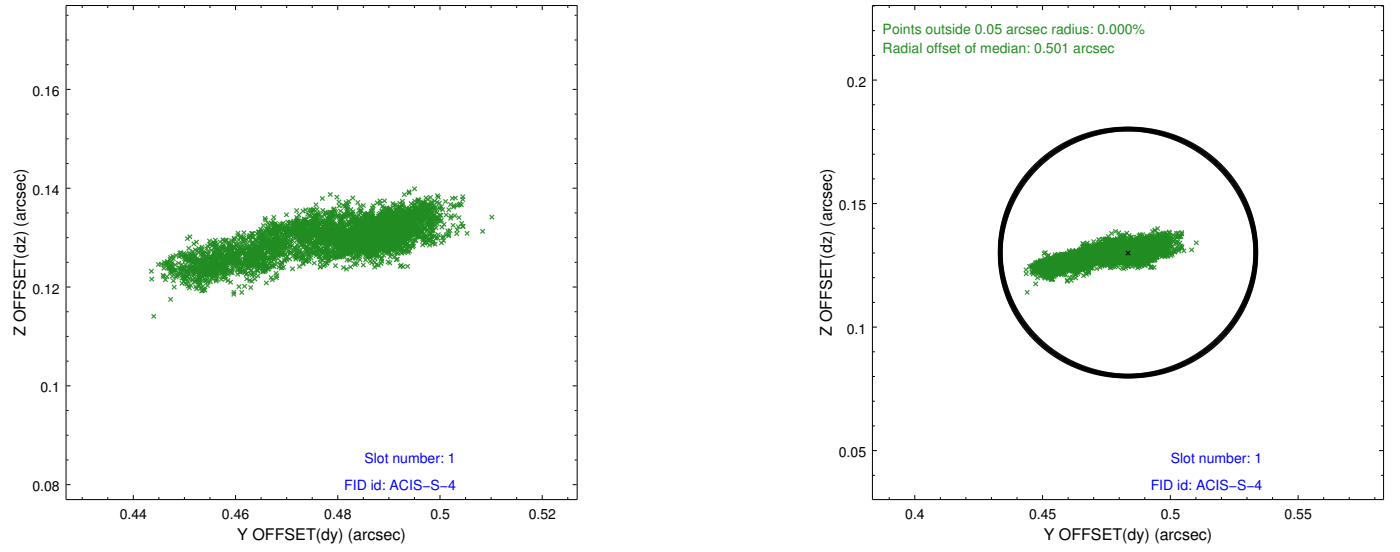


2.5 FID Slots

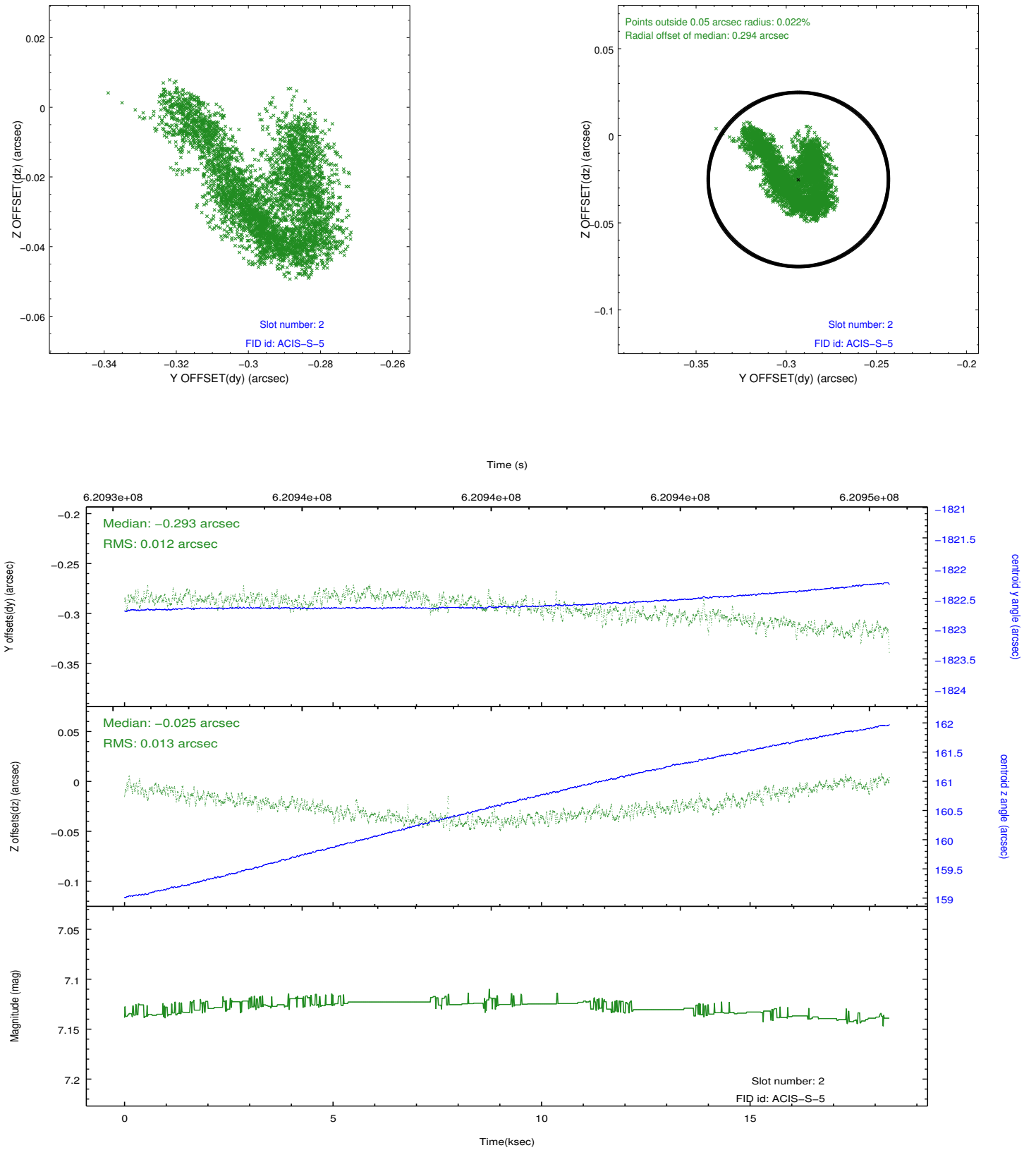
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2017.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.28439951551

A.2 Comments