

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 495 - L2 Version 4

Chandra X-Ray Center

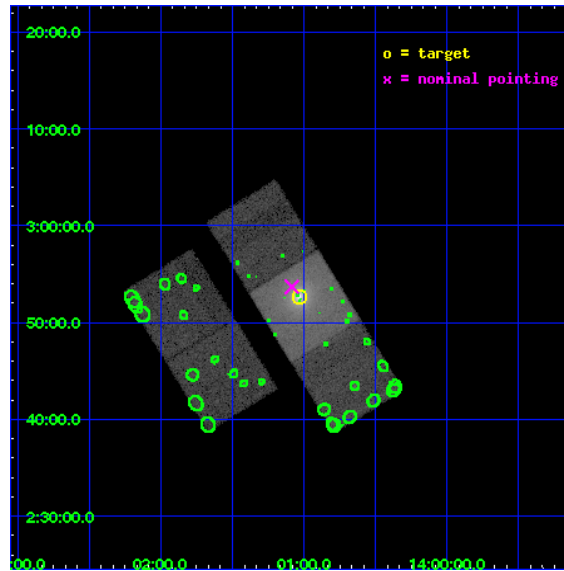
L2 Processing Date : Nov 25 2009

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1 Front

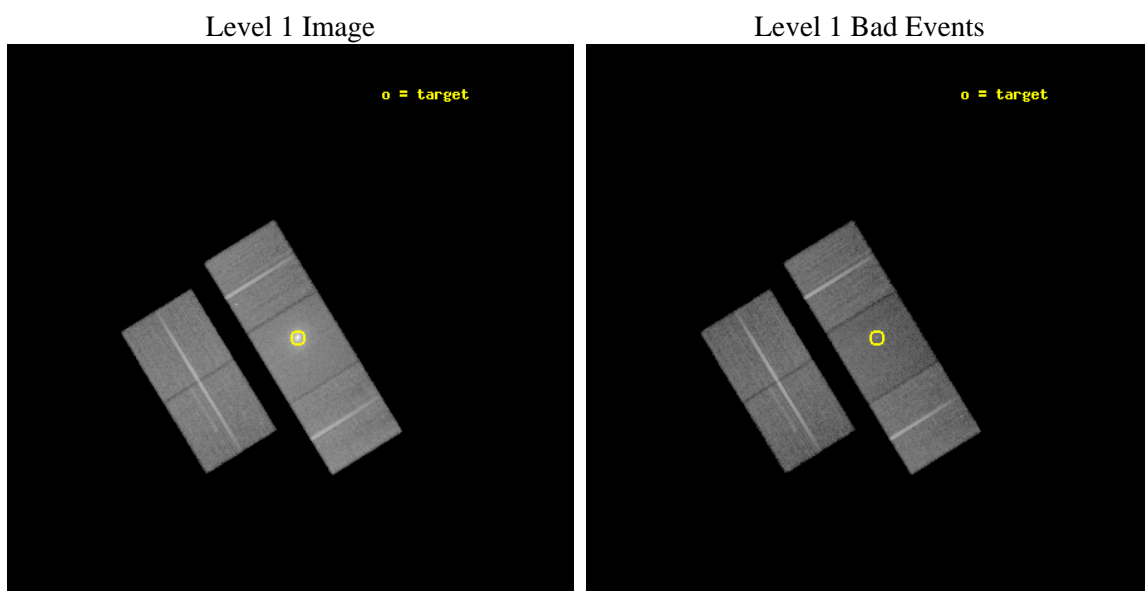
seq_num	800003	Sequence number
obs_id	495	Observation id
title	THE MASSIVE COOLING FLOW IN A1835	Proposal title
observer	Professor Andrew Fabian	Principal investigator
object	A1835	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	210.258333	Observer's specified target RA
dec_targ	2.877778	Observer's specified target Dec
ra_nom	210.27109254453	Nominal RA
dec_nom	2.8948443359126	Nominal Dec
roll_nom	58.484469405551	Nominal Roll
revision	4	Processing version of data
ontime	19771.4448158	Sum of GTIs [s]
livetime	19521.086876607	Livetime [s]
ontime2	19771.403775796	Sum of GTIs [s]
ontime3	19768.080715649	Sum of GTIs [s]
ontime6	19771.3627358	Sum of GTIs [s]
ontime7	19771.4448158	Sum of GTIs [s]
ontime8	19771.280546106	Sum of GTIs [s]
l2events	222876	Number of level 2 events



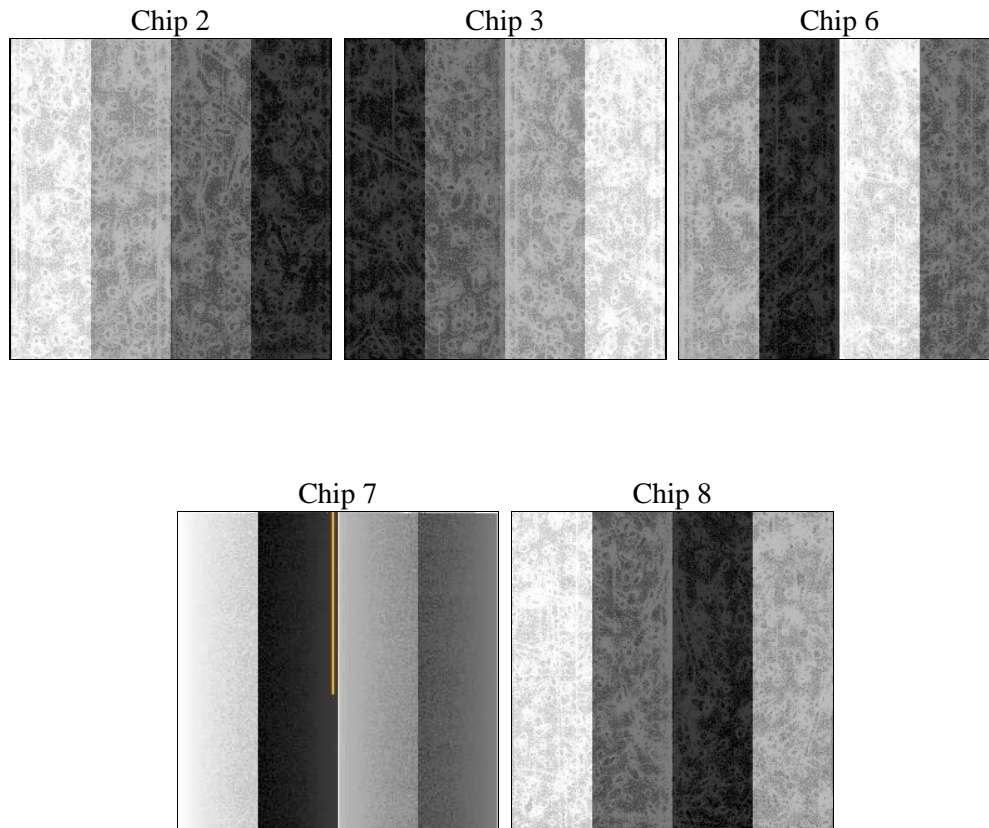
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	19771.4448158	Sum of GTIs [s]
caldsver	4.1.4	 	ontime2	19771.403775796	Sum of GTIs [s]
date	2009-11-25T14:27:06	Date and time of file creation	ontime3	19768.080715649	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	19771.3627358	Sum of GTIs [s]
			ontime7	19771.4448158	Sum of GTIs [s]
			ontime8	19771.280546106	Sum of GTIs [s]
			l1events	1032228	Number of level 1 events

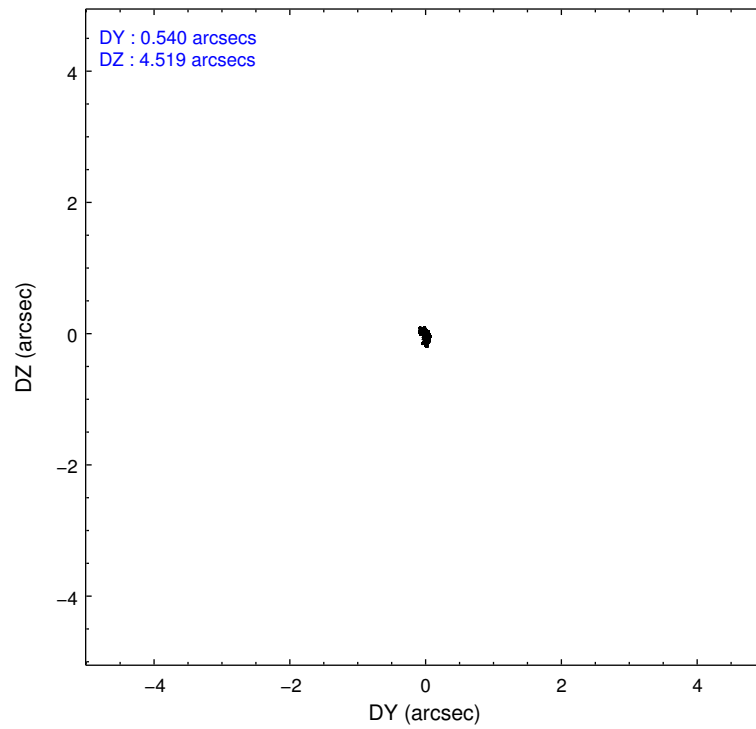
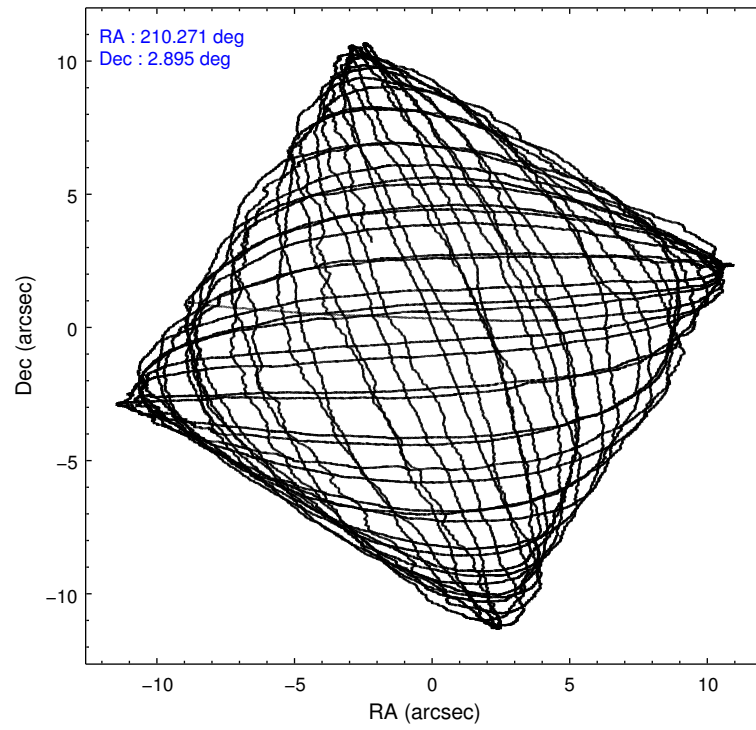
2.1.4 Events

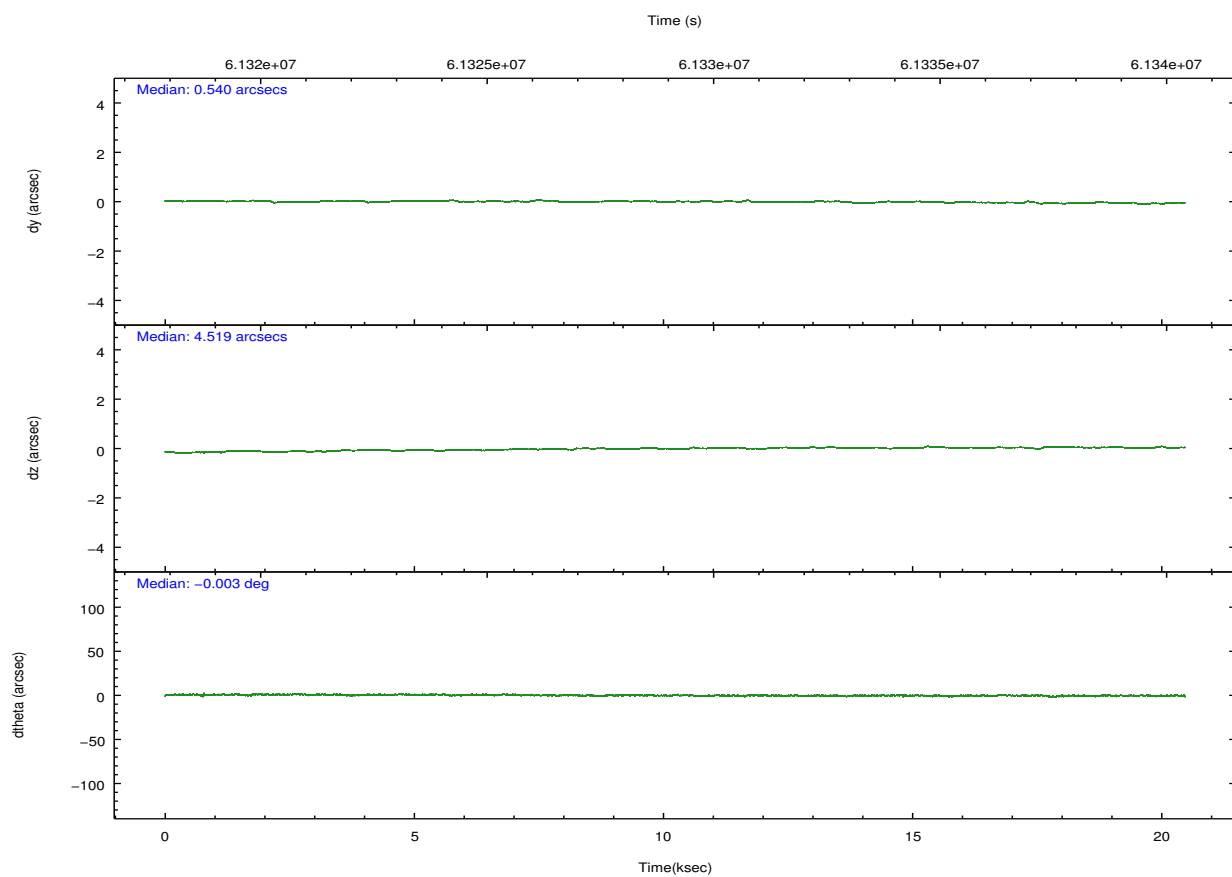
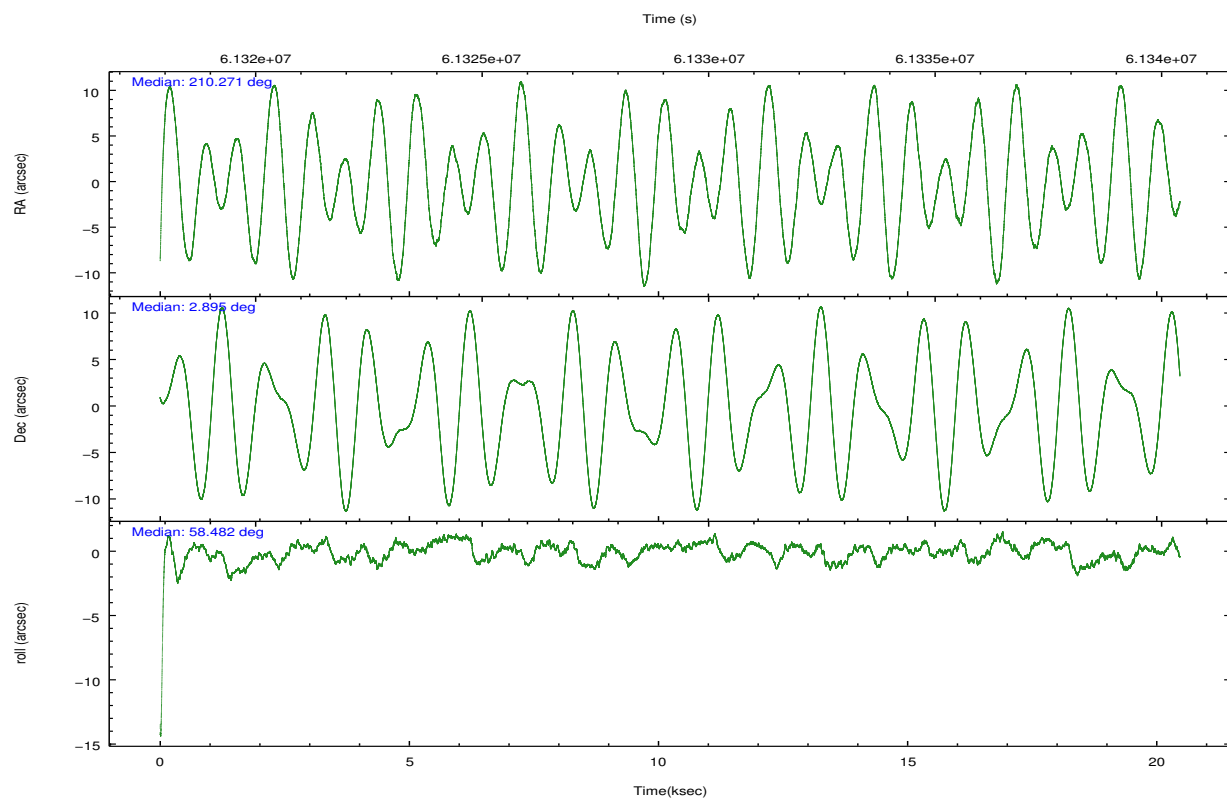
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	182302	181346	182279	264306	221995	grade 0 events	4125	4347	4682	28311	11540
rejected events	163964	161783	161464	115984	178792		2%	2%	2%	10%	5%
rejected %	89%	89%	88%	43%	80%	grade 1 events	32	41	33	176	93
							0%	0%	0%	0%	0%
						grade 2 events	7859	8586	8857	34857	13796
							4%	4%	4%	13%	6%
						grade 3 events	1056	1093	1114	13152	3740
							0%	0%	0%	4%	1%
						grade 4 events	1137	1030	1112	12077	3424
							0%	0%	0%	4%	1%
						grade 5 events	3002	3352	3671	11377	5003
							1%	1%	2%	4%	2%
						grade 6 events	4167	4518	5060	59958	10729
							2%	2%	2%	22%	4%
						grade 7 events	160924	158379	157750	104398	173670
							88%	87%	86%	39%	78%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	210.270282	210.2710925445253	Subarray requested	NONE	NONE
Pointing Dec	2.867283	2.894844335912604	Alternating exposures requested	N	N
Pointing Roll	58.327892	58.48446940555127	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.145094680475			
SIM translation stage offset (mm)	0	0.01257209746719923			
Observation start time	61319382.184000	61318113.68436			
Observation start date	1999-12-11T17:08:38	1999-12-11T16:48:33			
Observation end time	61339382.184000	61339944.13515			
Observation end date	1999-12-11T22:41:58	1999-12-11T22:52:24			
Read mode	TIMED	TIMED			

2.3 Aspect



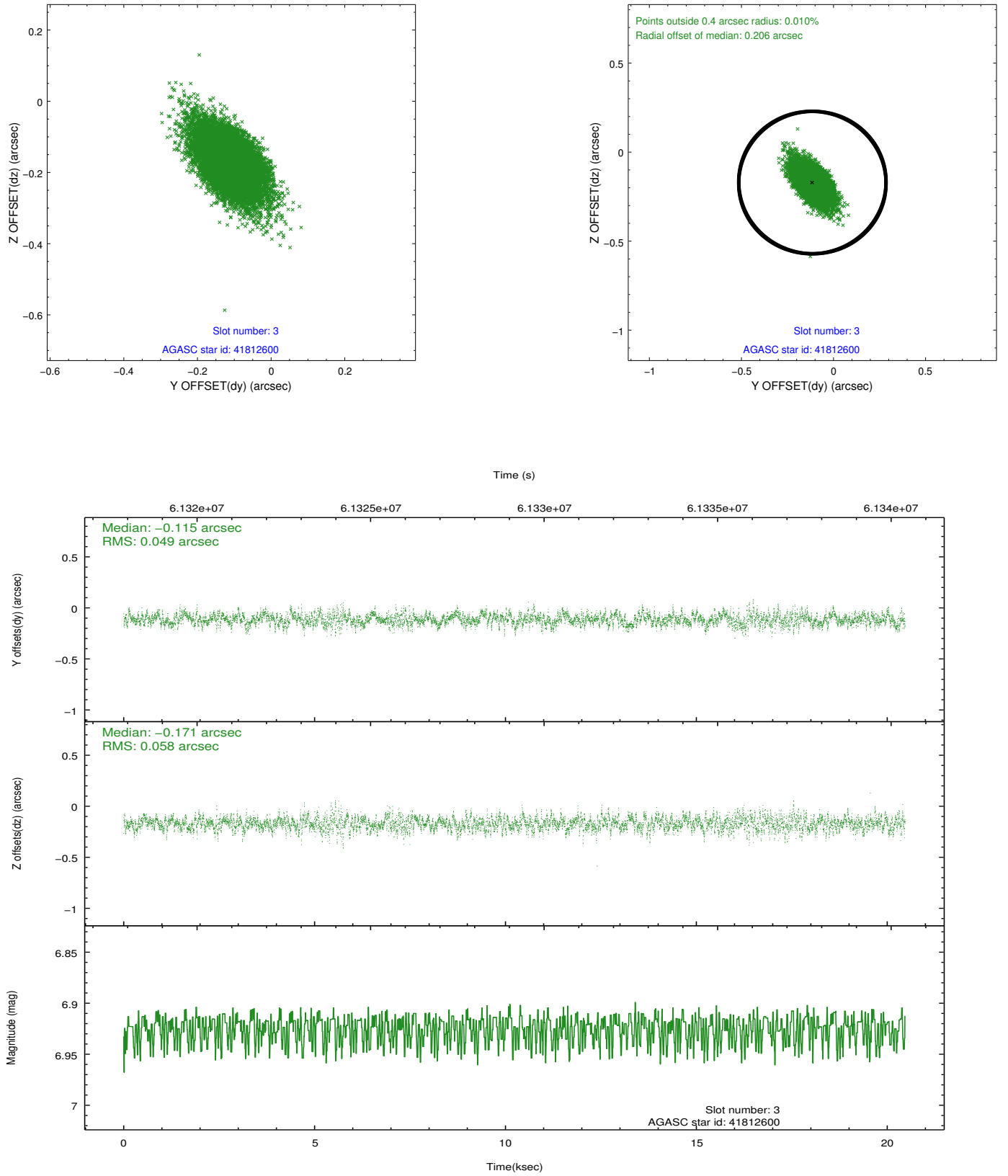


Slot Statistics

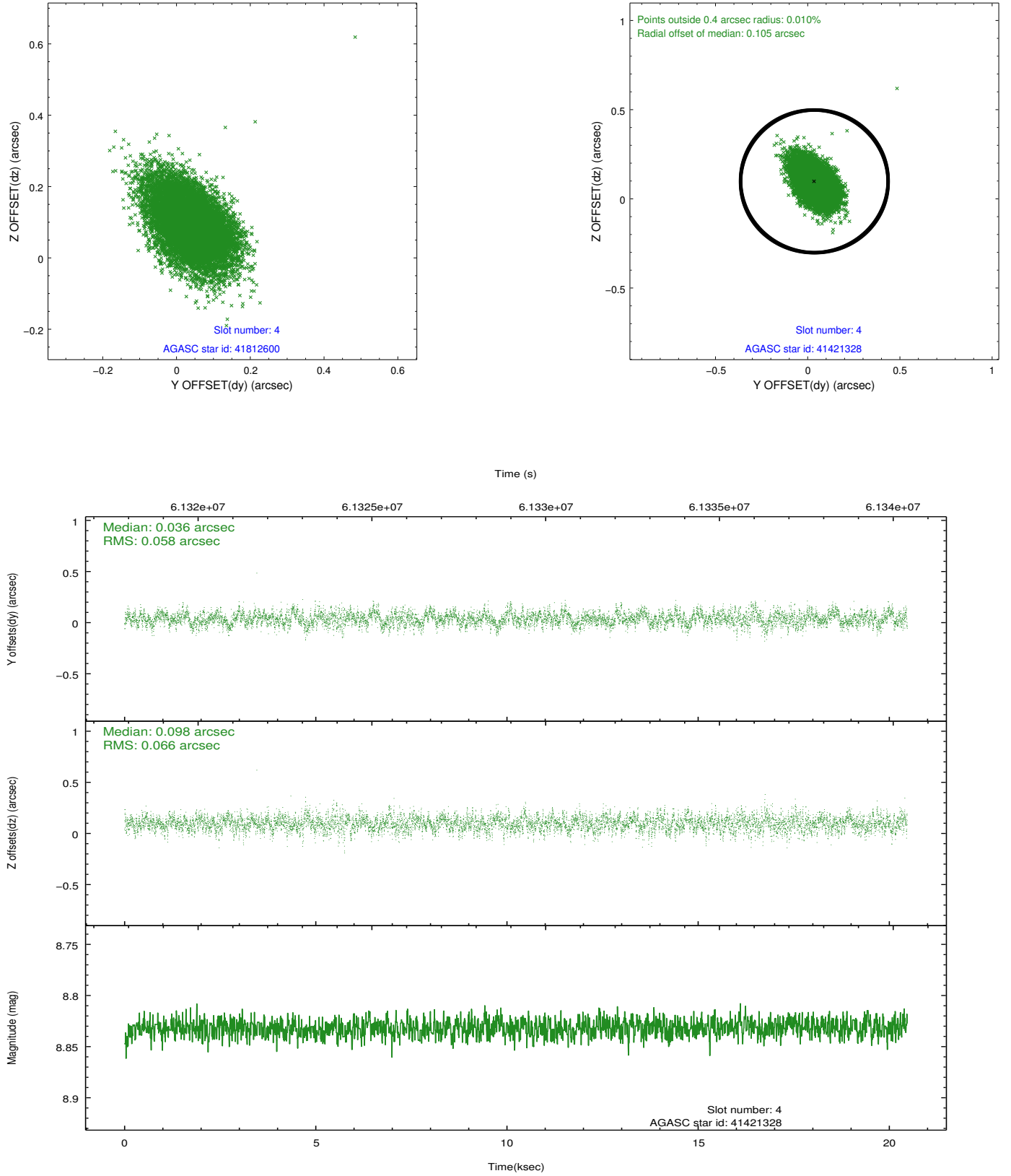
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	9985	-0.020	-0.020	0.008	0.013	0.000000	0.000000	-753.16	-1725.50
1	FID	ACIS-S-4	7.21	9985	0.039	0.015	0.006	0.012	0.000000	0.000000	2160.20	182.96
2	FID	ACIS-S-5	7.24	9984	-0.051	0.014	0.008	0.013	0.000000	0.000000	-1805.98	176.71
3	GUIDE	41812600	6.92	9983	-0.115	-0.171	0.077	0.137	210.084142	2.674576	-941.39	204.97
4	GUIDE	41421328	8.83	9983	0.036	0.098	0.091	0.158	210.405722	2.285281	-1526.76	-1514.99
5	GUIDE	41812672	9.21	9977	0.130	0.034	0.139	0.222	210.433277	2.688495	-239.40	-837.18
6	GUIDE	41423032	9.50	9981	0.094	0.128	0.097	0.162	210.281443	2.092489	-2352.09	-1499.10
7	GUIDE	41814640	9.62	9979	-0.139	-0.076	0.100	0.168	210.348766	3.400783	1782.82	768.00

2.4 Star Slots

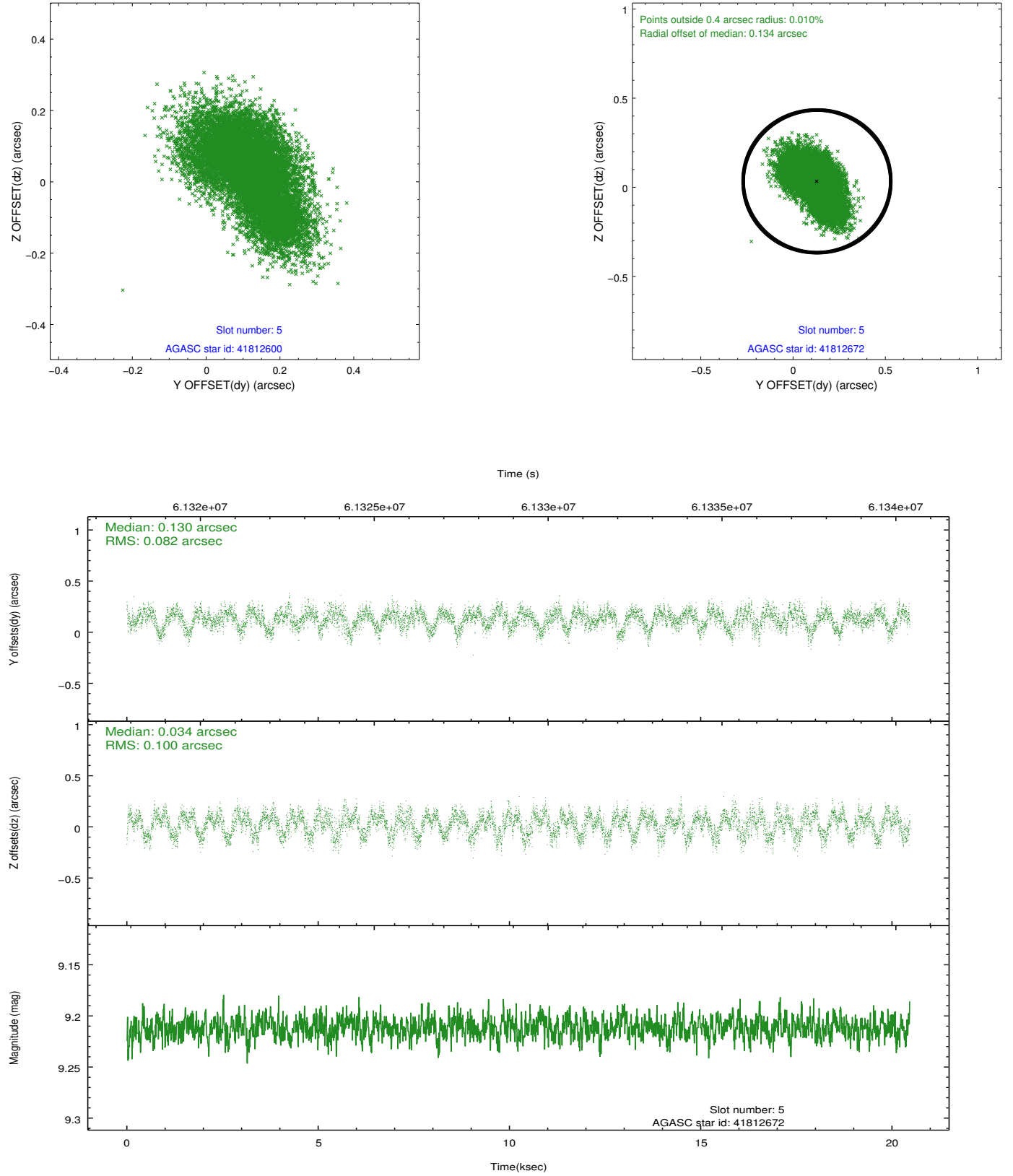
2.4.1 Slot 3



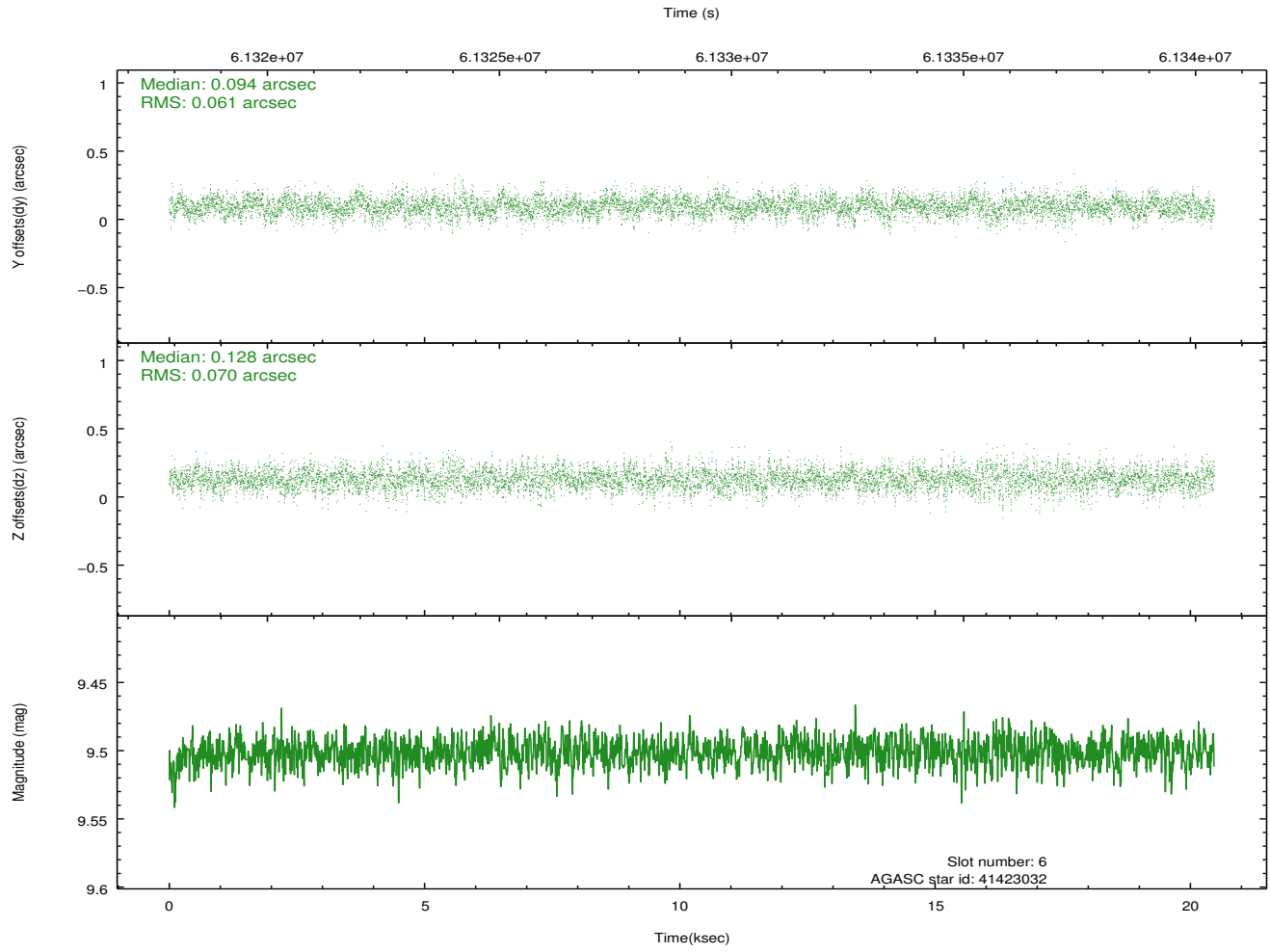
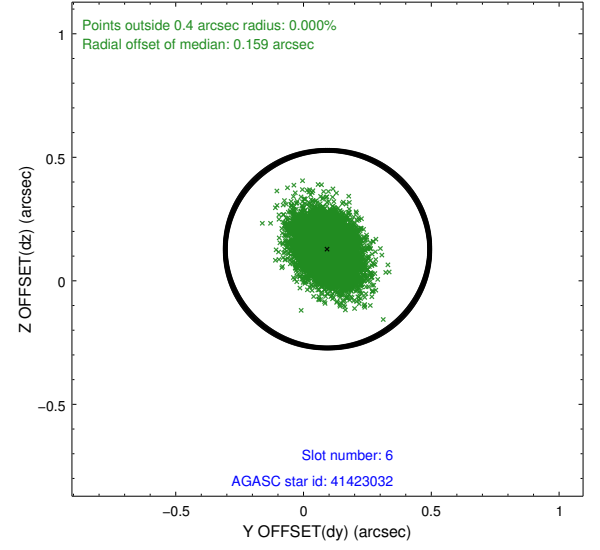
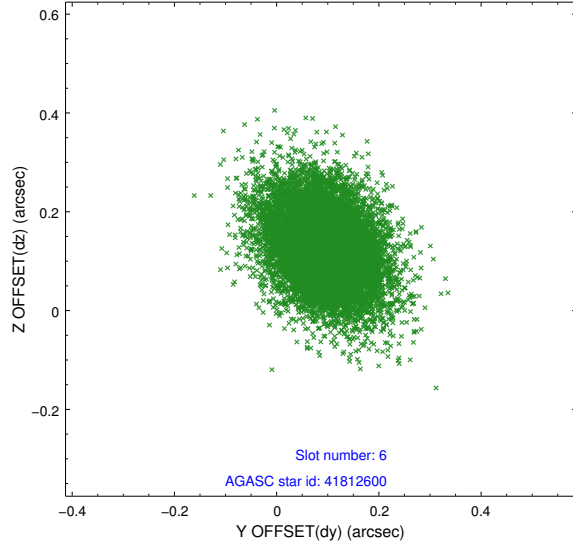
2.4.2 Slot 4



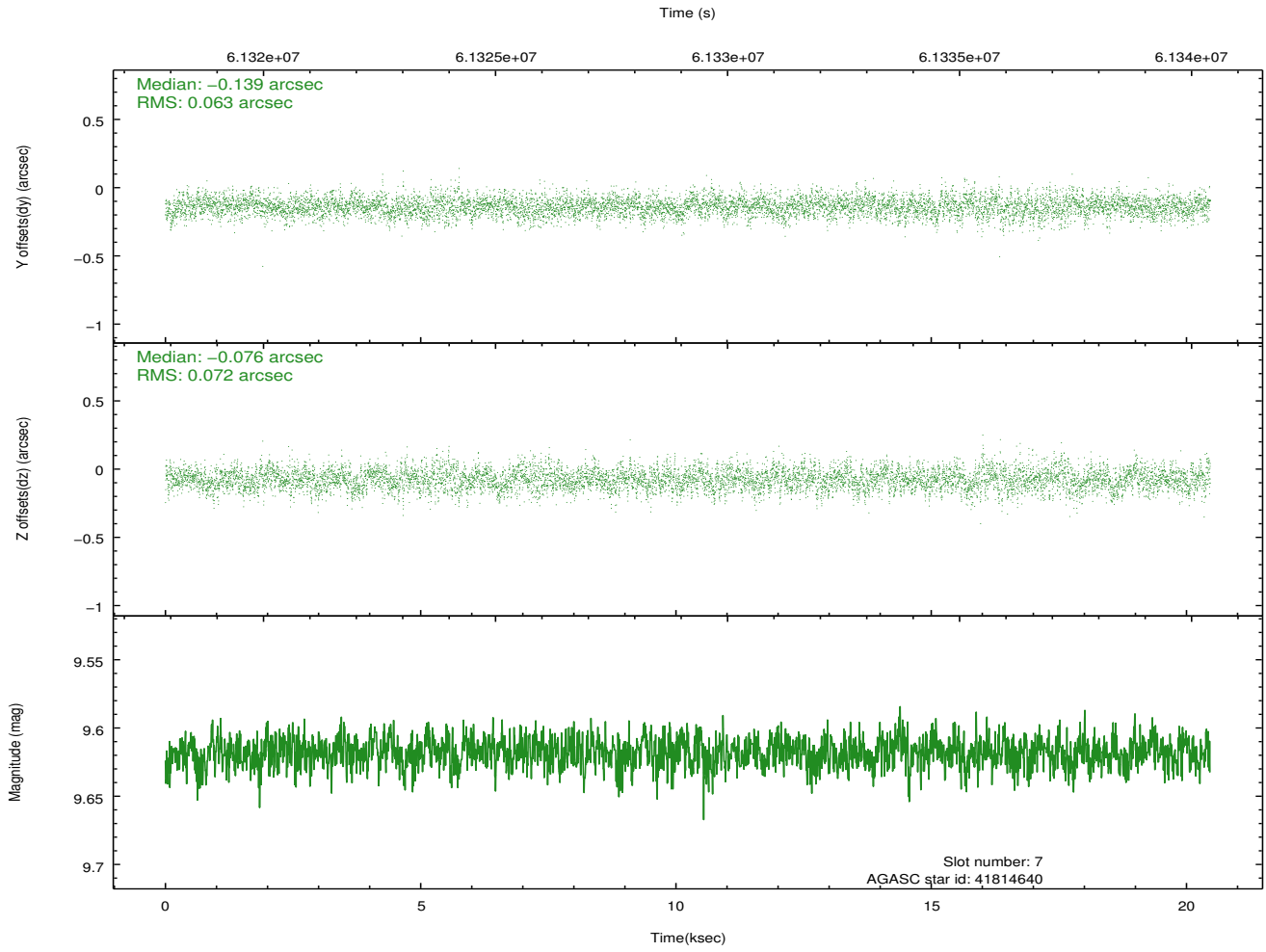
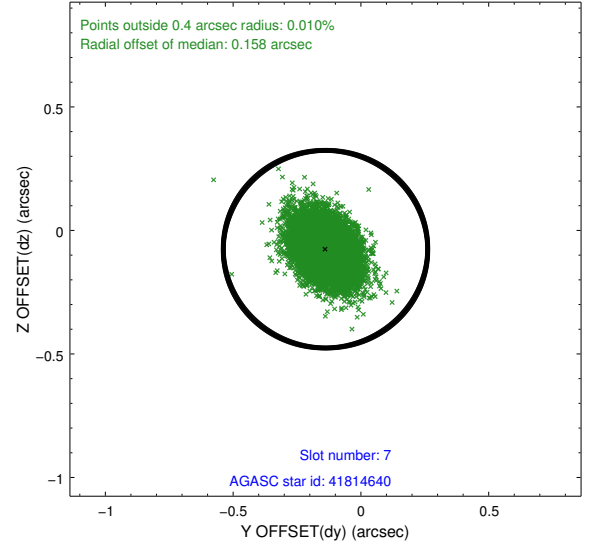
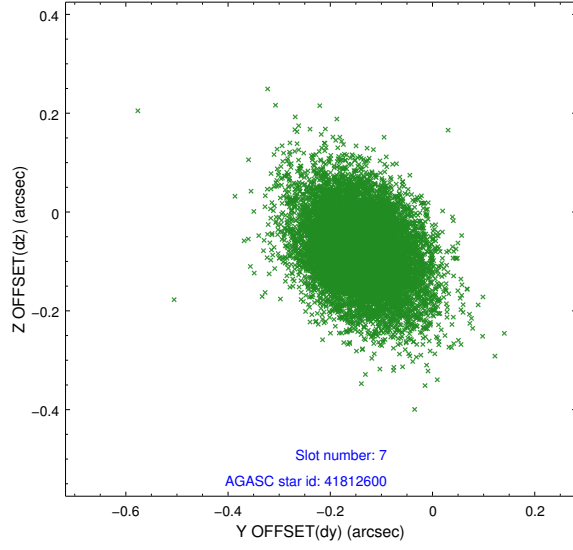
2.4.3 Slot 5



2.4.4 Slot 6

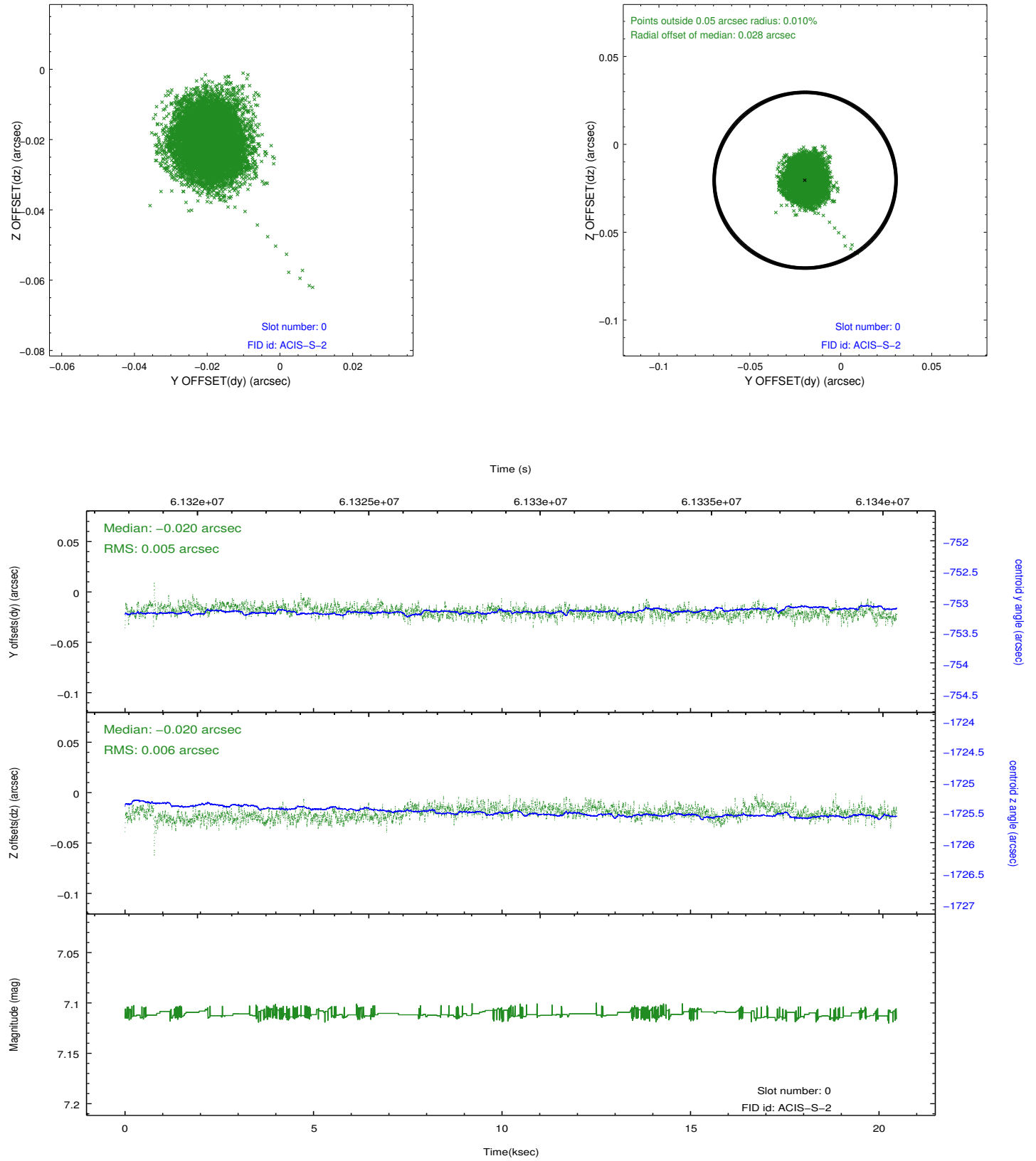


2.4.5 Slot 7

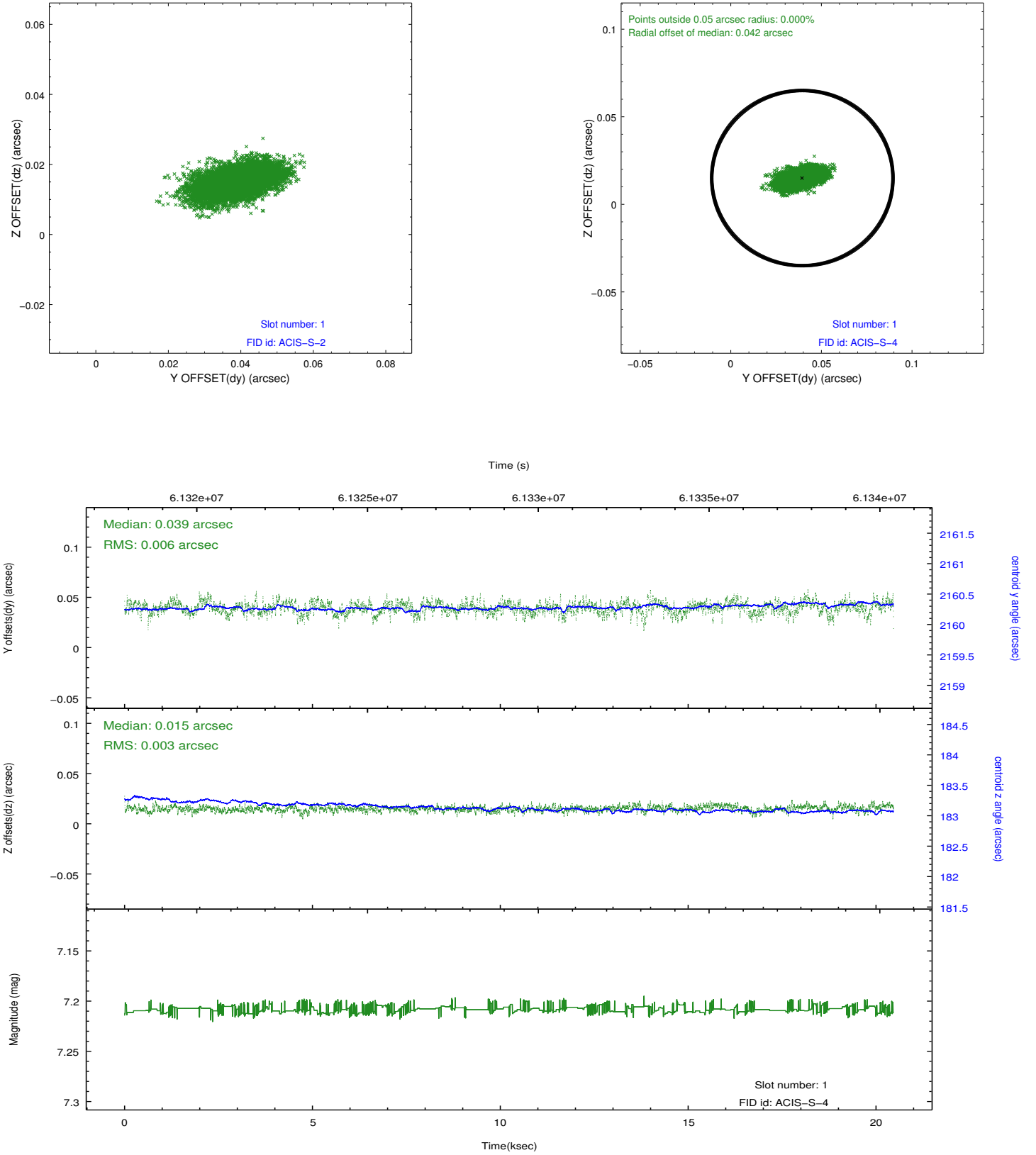


2.5 FID Slots

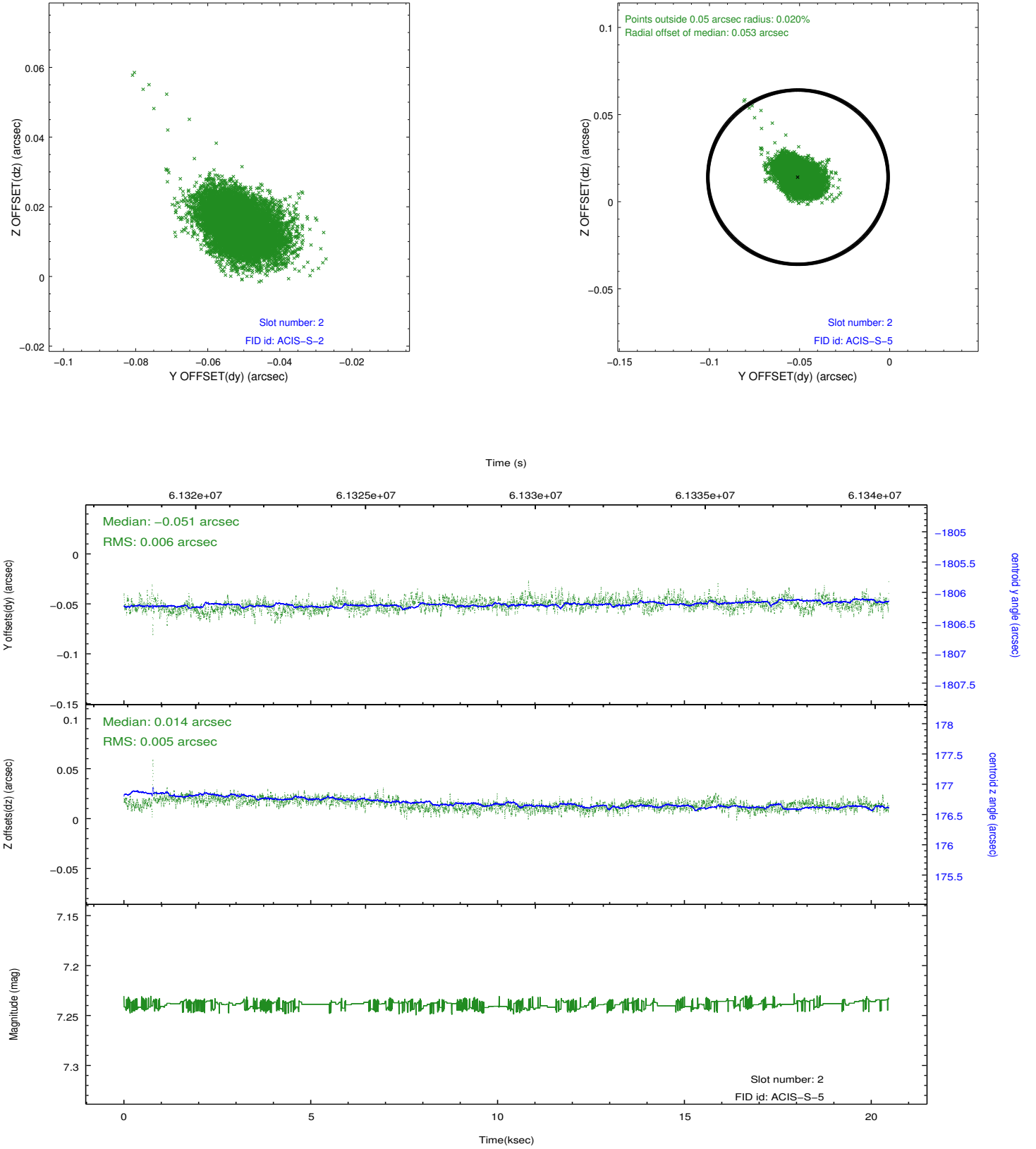
2.5.1 Slot 0



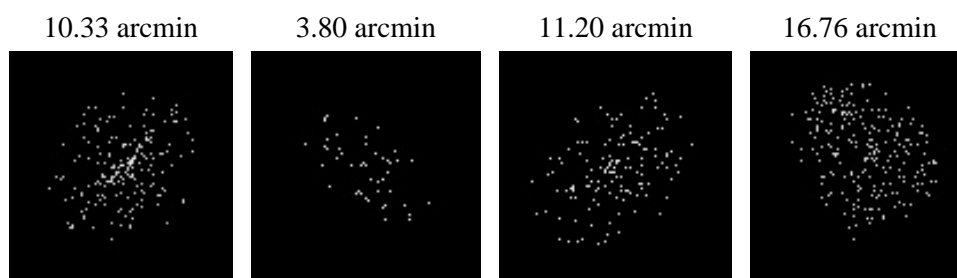
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2009.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.772

A.2 Comments

Focal plane temperature is warmer than -118.7 C degrees during the entire observation. This temperature is the upper limit of the verified ACIS calibration for the front-illuminated chips. The focal plane temperature is also warmer than -116.7 degrees C for the entire observation. This temperature is the upper limit of the verified ACIS calibration for the back-illuminated chips. The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.