

V&V Reference Report

L2 ASCDS Version : 10.1

Observation 15712 - L2 Version 3
Chandra X-Ray Center

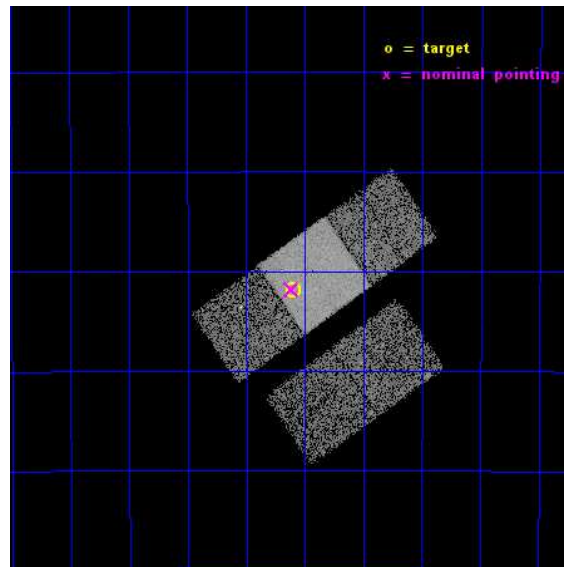
L2 Processing Date : Dec 9 2014

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1 Front

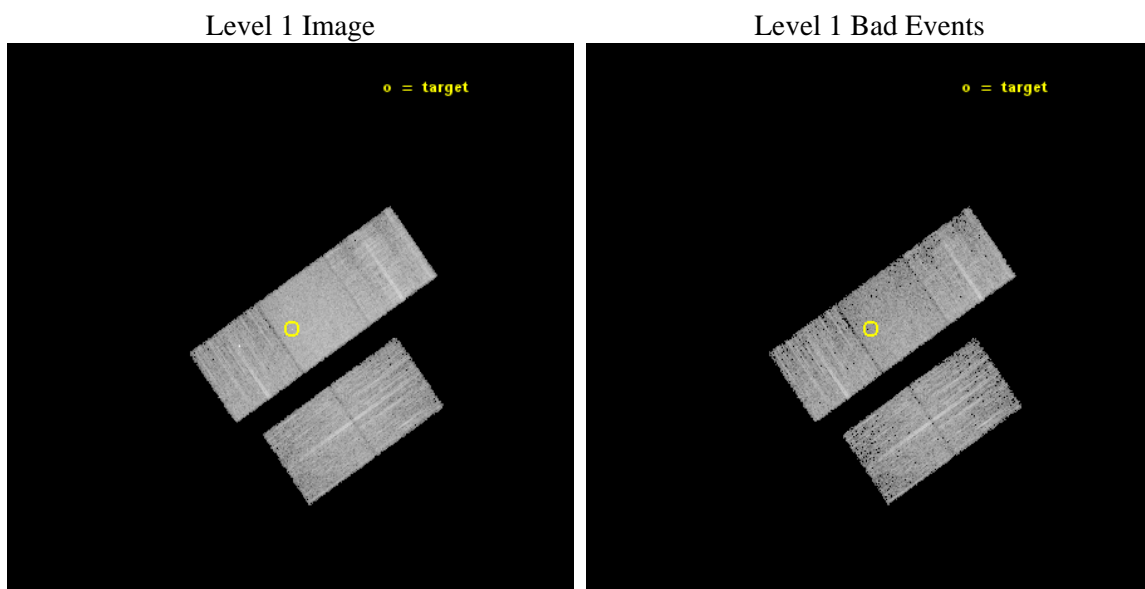
seq_num	200925	Sequence number
obs_id	15712	Observation id
title	X-ray irradiation of planets with atmospheres amenable to comprehensive follow-up	Proposal title
observer	Mr. Michael Salz	Principal investigator
object	Wasp-8	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	359.900417	Observer's specified target RA [deg]
dec_targ	-35.031361	Observer's specified target Dec [deg]
ra_nom	359.90377057552	Nominal RA [deg]
dec_nom	-35.030217187558	Nominal Dec [deg]
roll_nom	324.90790043854	Nominal Roll [deg]
revision	3	Processing version of data
ontime	10068.800077438	Sum of GTIs [s]
livetime	9937.2437918838	Livetime [s]
ontime2	10065.657752693	Sum of GTIs [s]
ontime3	10068.800077438	Sum of GTIs [s]
ontime6	10068.800077438	Sum of GTIs [s]
ontime7	10068.800077438	Sum of GTIs [s]
ontime8	10068.800077438	Sum of GTIs [s]
l2events	51195	Number of level 2 events



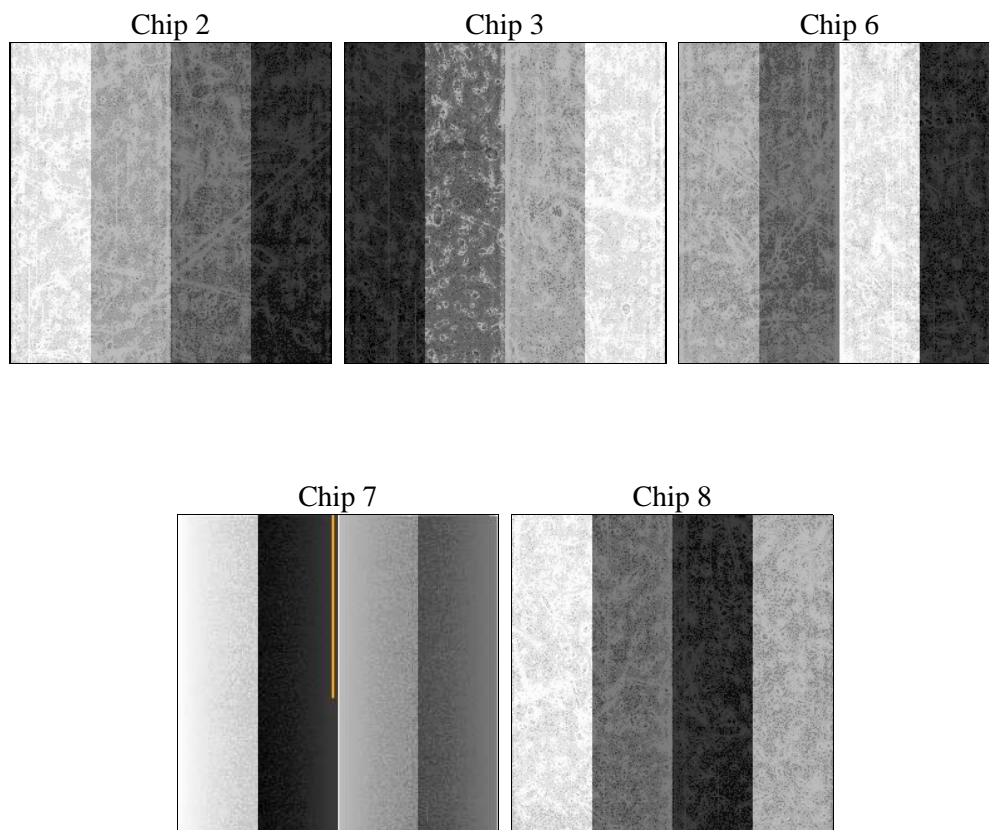
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	10068.800077438	Sum of GTIs [s]
caldsver	4.6.4	 	ontime2	10065.657752693	Sum of GTIs [s]
date	2014-12-09T05:16:49	Date and time of file creation	ontime3	10068.800077438	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	10068.800077438	Sum of GTIs [s]
			ontime7	10068.800077438	Sum of GTIs [s]
			ontime8	10068.800077438	Sum of GTIs [s]
			l1events	281202	Number of level 1 events

2.1.4 Events

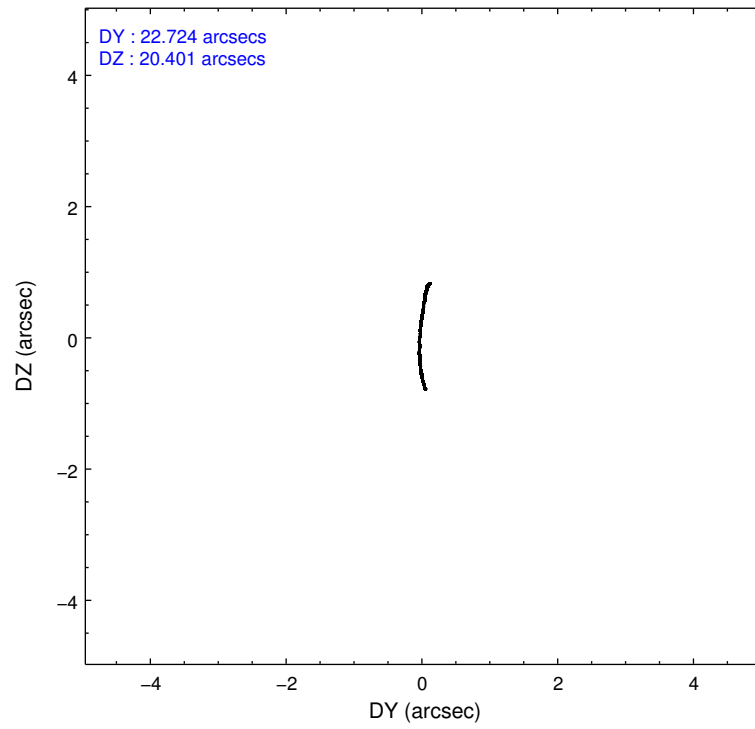
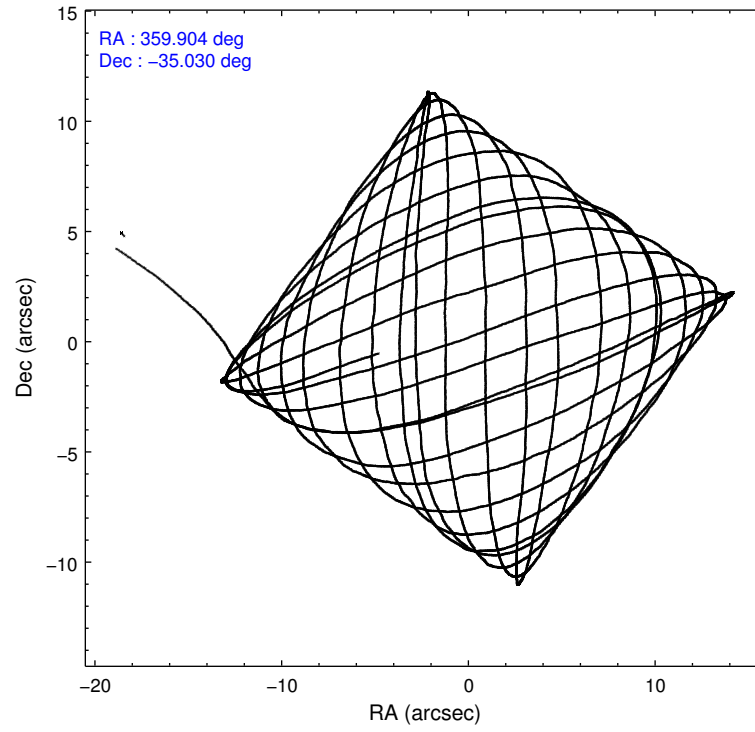
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	46186	48066	49686	69372	67892
rejected events	40492	42422	43127	39302	49553
rejected %	87%	88%	86%	56%	72%

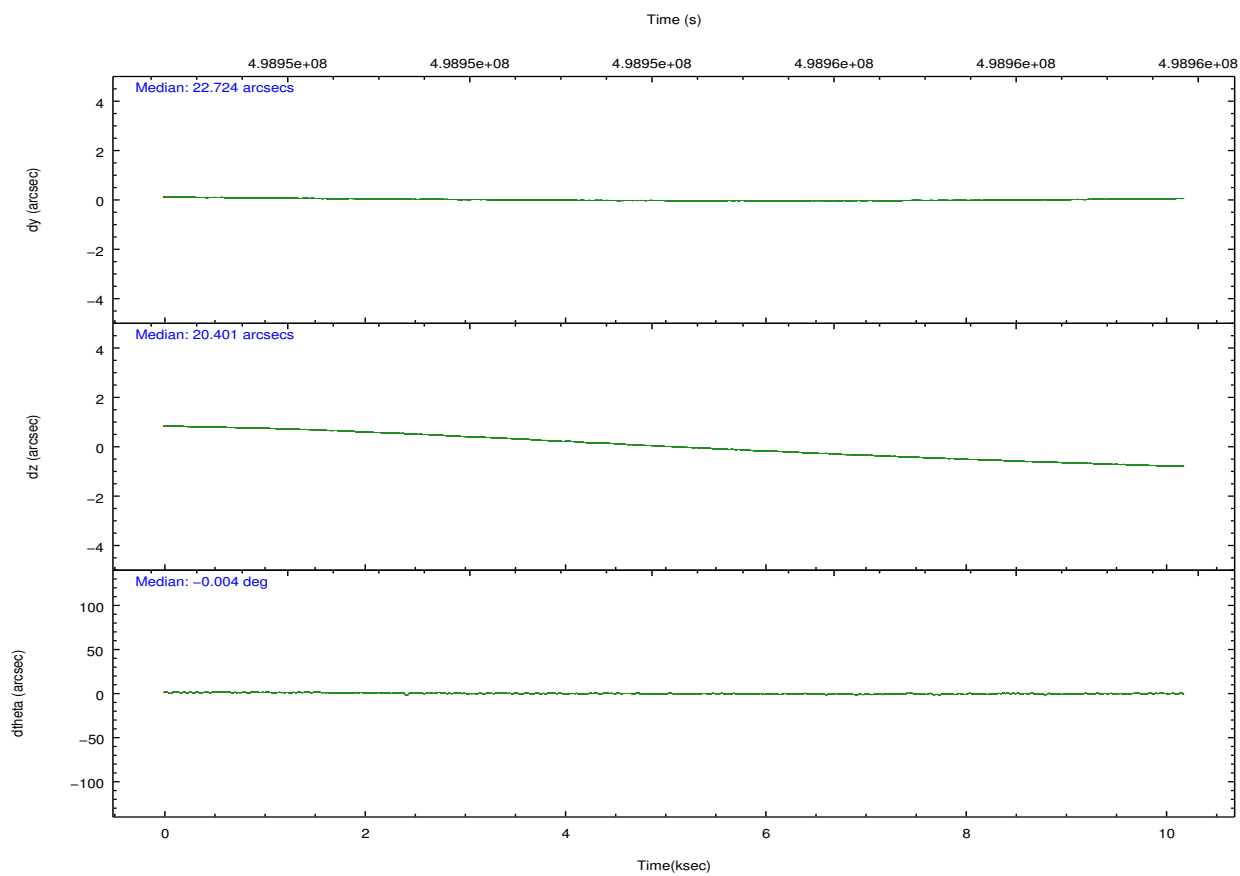
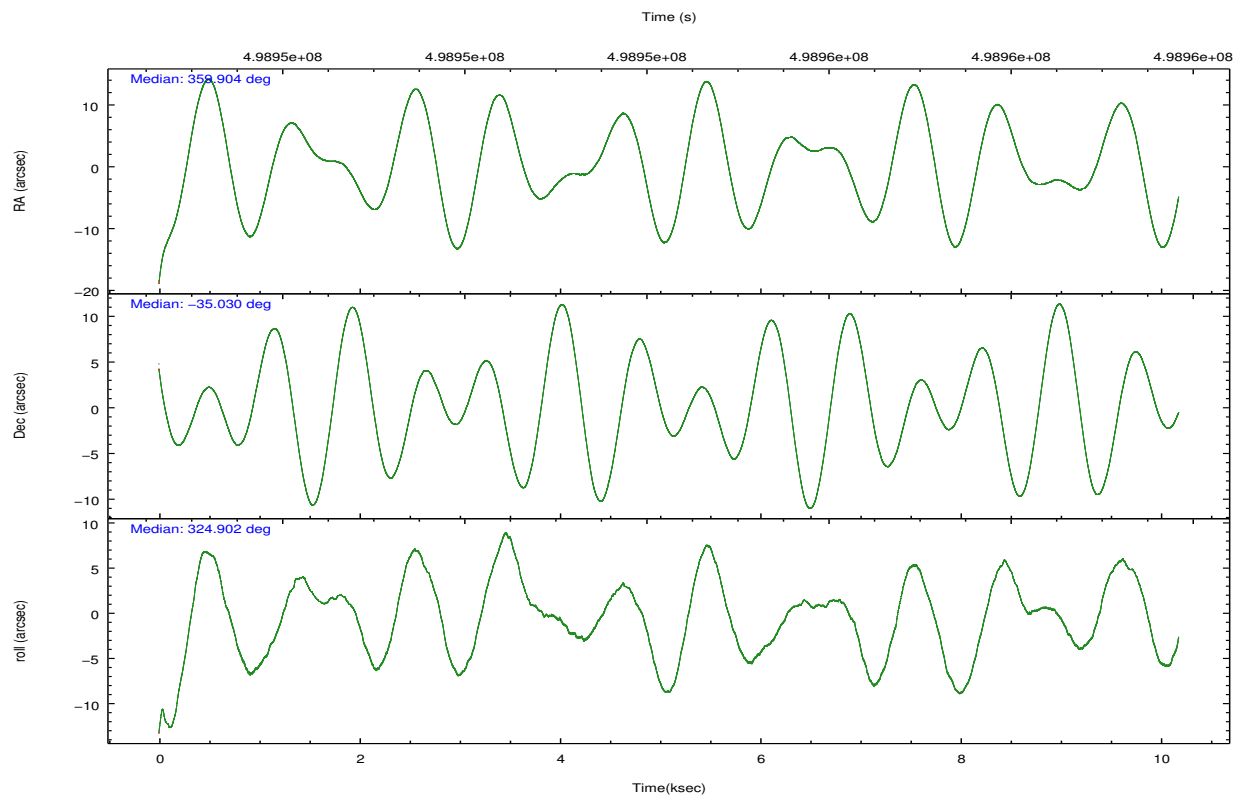
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	2003	2039	2400	2760	5308
	4%	4%	4%	3%	7%
grade 1 events	28	36	32	82	38
	0%	0%	0%	0%	0%
grade 2 events	1426	1216	1480	6116	4460
	3%	2%	2%	8%	6%
grade 3 events	559	564	598	2562	1917
	1%	1%	1%	3%	2%
grade 4 events	631	588	642	2581	1761
	1%	1%	1%	3%	2%
grade 5 events	2082	2690	2698	7224	3810
	4%	5%	5%	10%	5%
grade 6 events	1077	1241	1441	16063	4897
	2%	2%	2%	23%	7%
grade 7 events	38380	39692	40395	31984	45701
	83%	82%	81%	46%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	359.870535	359.9037705755188	CCD I2 on	O1	Y
[deg] Pointing Dec	-35.028154	-35.03021718755798	CCD I3 on	O2	Y
[deg] Pointing Roll	324.732190	324.9079004385366	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)	498949322.184000	498948224.99149	CCD S5 on	N	N
Observation start date	2013-10-23T21:00:55	2013-10-23T20:43:44	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	498959322.184000	498960584.44216	On-chip summing requested	N	N
Observation end date	2013-10-23T23:47:35	2013-10-24T00:09:44	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



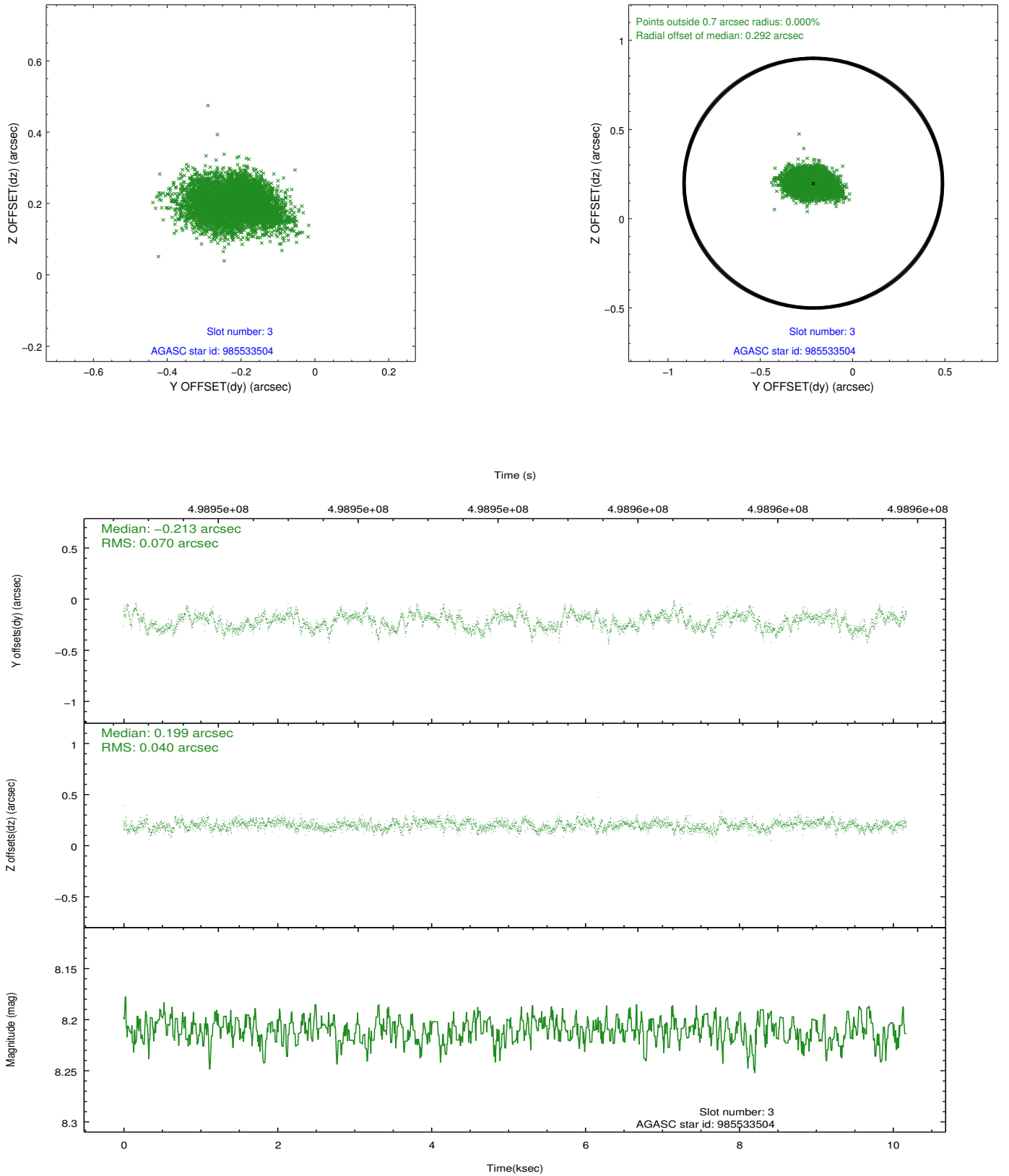


Slot Statistics

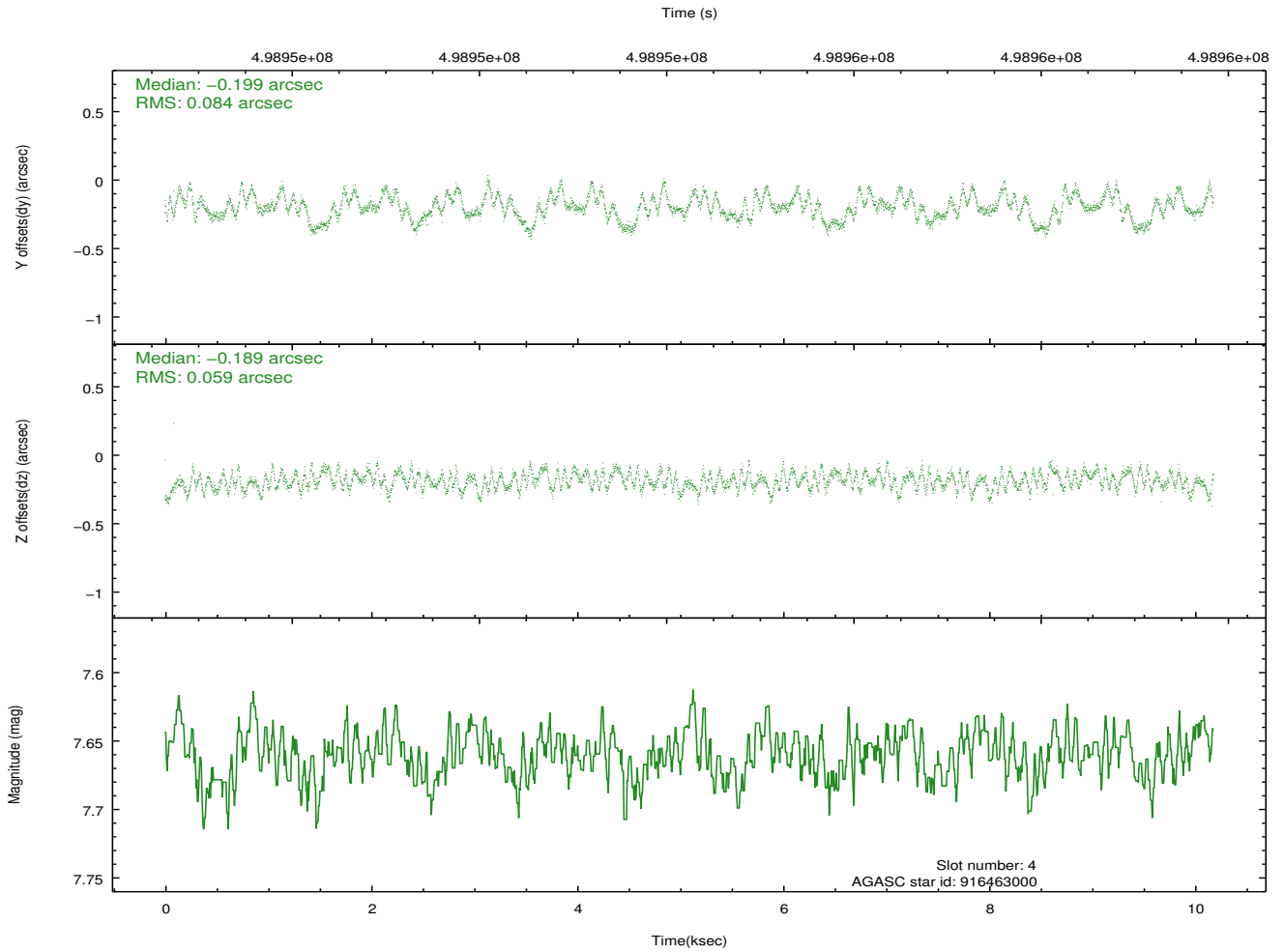
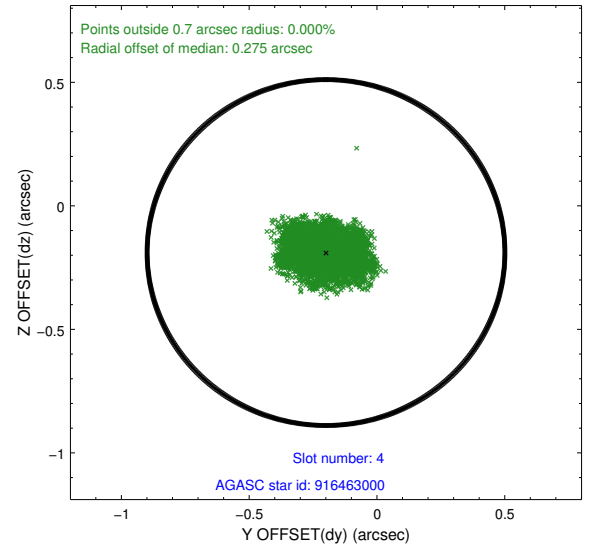
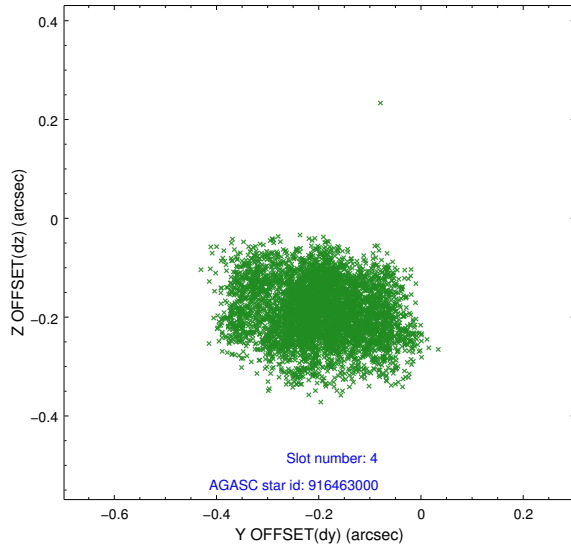
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.93	2483	-0.107	0.018	0.011	0.019	0.000000	0.000000	-776.01	-1741.88
1	FID		ACIS-S-4	7.03	2484	0.234	0.047	0.008	0.013	0.000000	0.000000	2137.35	166.10
2	FID		ACIS-S-5	7.05	2483	-0.159	-0.055	0.009	0.014	0.000000	0.000000	-1828.26	160.24
3	GUIDE	used	985533504	8.21	4966	-0.213	0.199	0.085	0.139	359.621834	-34.285981	-2146.13	1753.35
4	GUIDE	used	916463000	7.66	4966	-0.199	-0.189	0.114	0.173	0.752231	-34.743937	1544.71	2333.31
5	GUIDE	used	916857840	7.97	4967	0.111	-0.121	0.095	0.165	0.040896	-35.960224	2344.12	-2452.54
6	GUIDE	used	985539832	9.36	4945	0.048	0.199	0.139	0.230	359.652112	-34.298072	-2046.93	1770.08
7	GUIDE	used	916857944	9.66	4939	0.231	-0.085	0.285	0.477	0.074793	-35.922027	2345.94	-2283.64

2.4 Star Slots

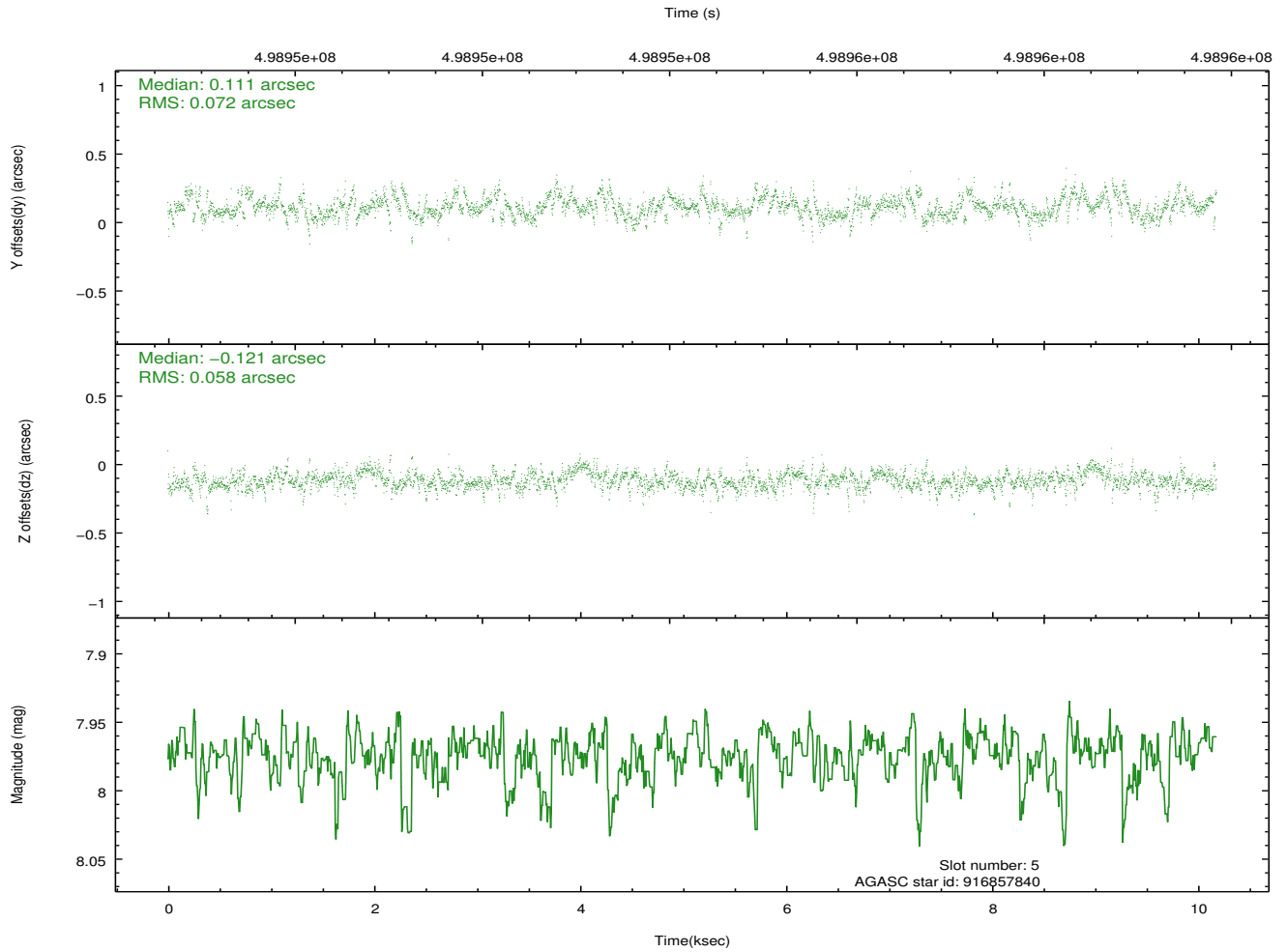
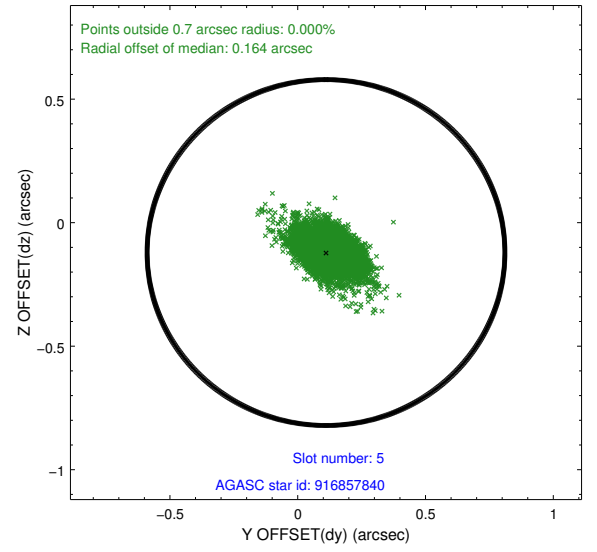
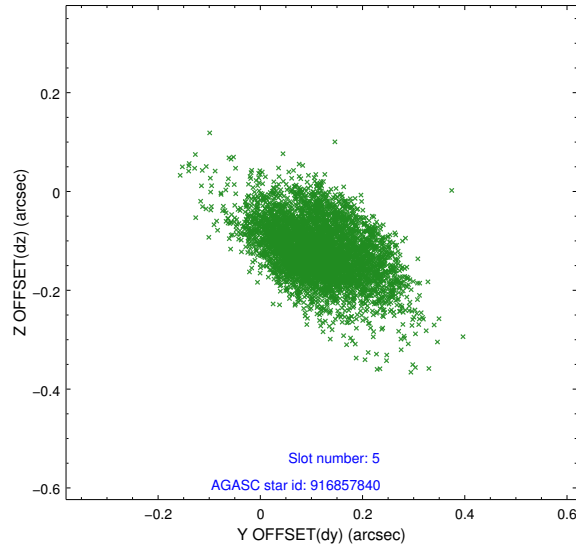
2.4.1 Slot 3



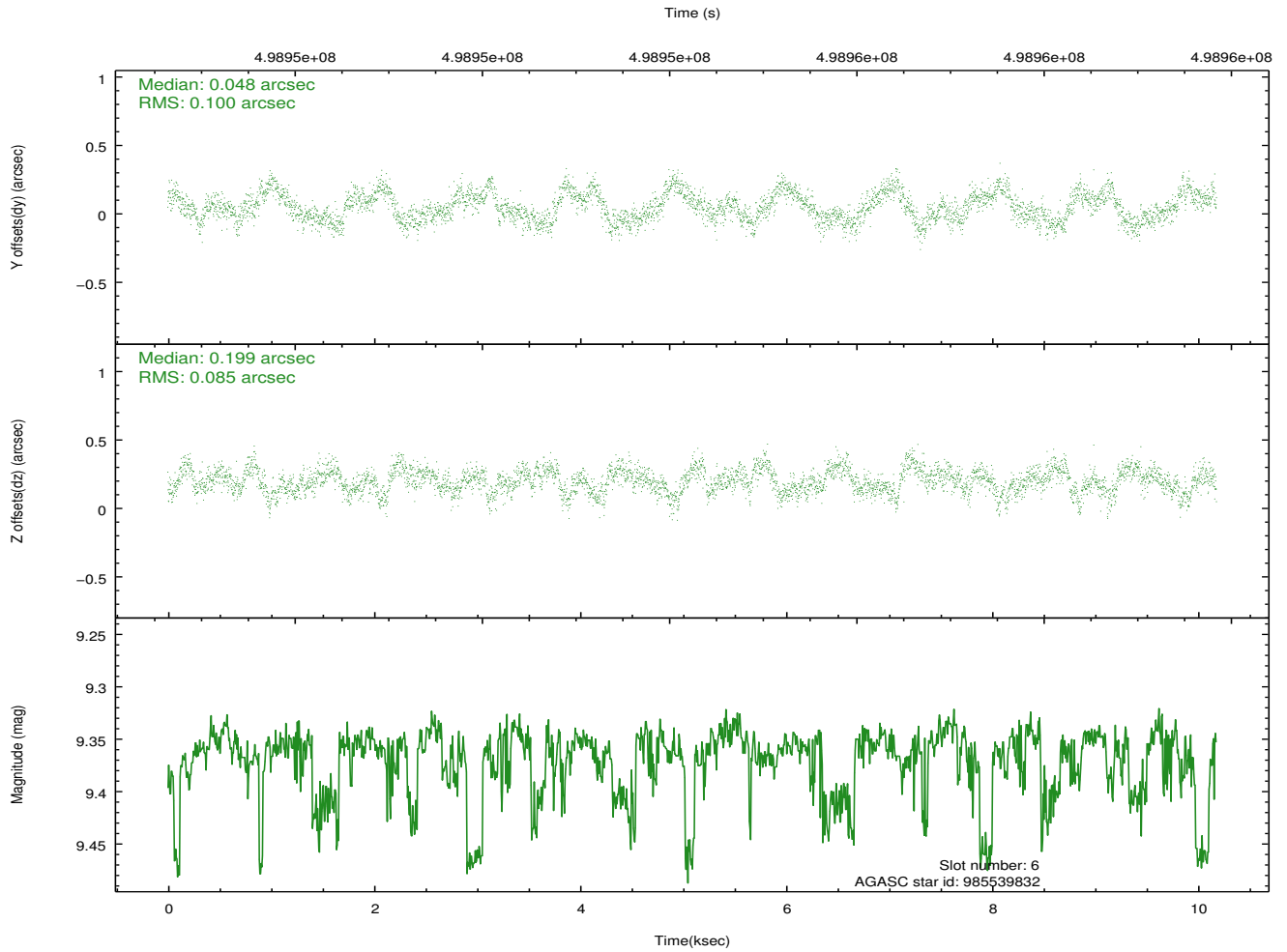
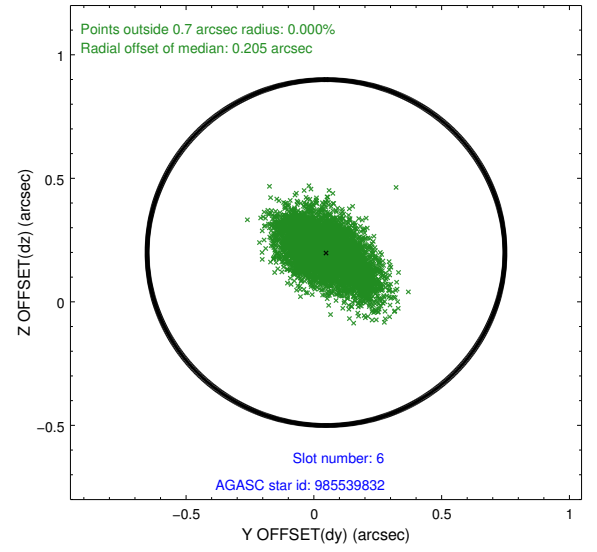
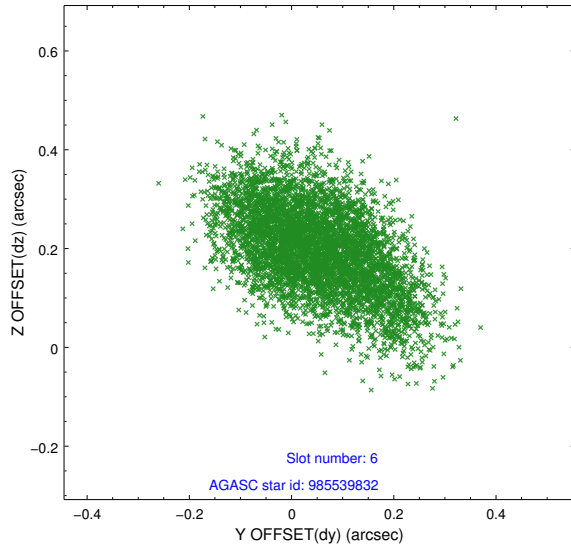
2.4.2 Slot 4



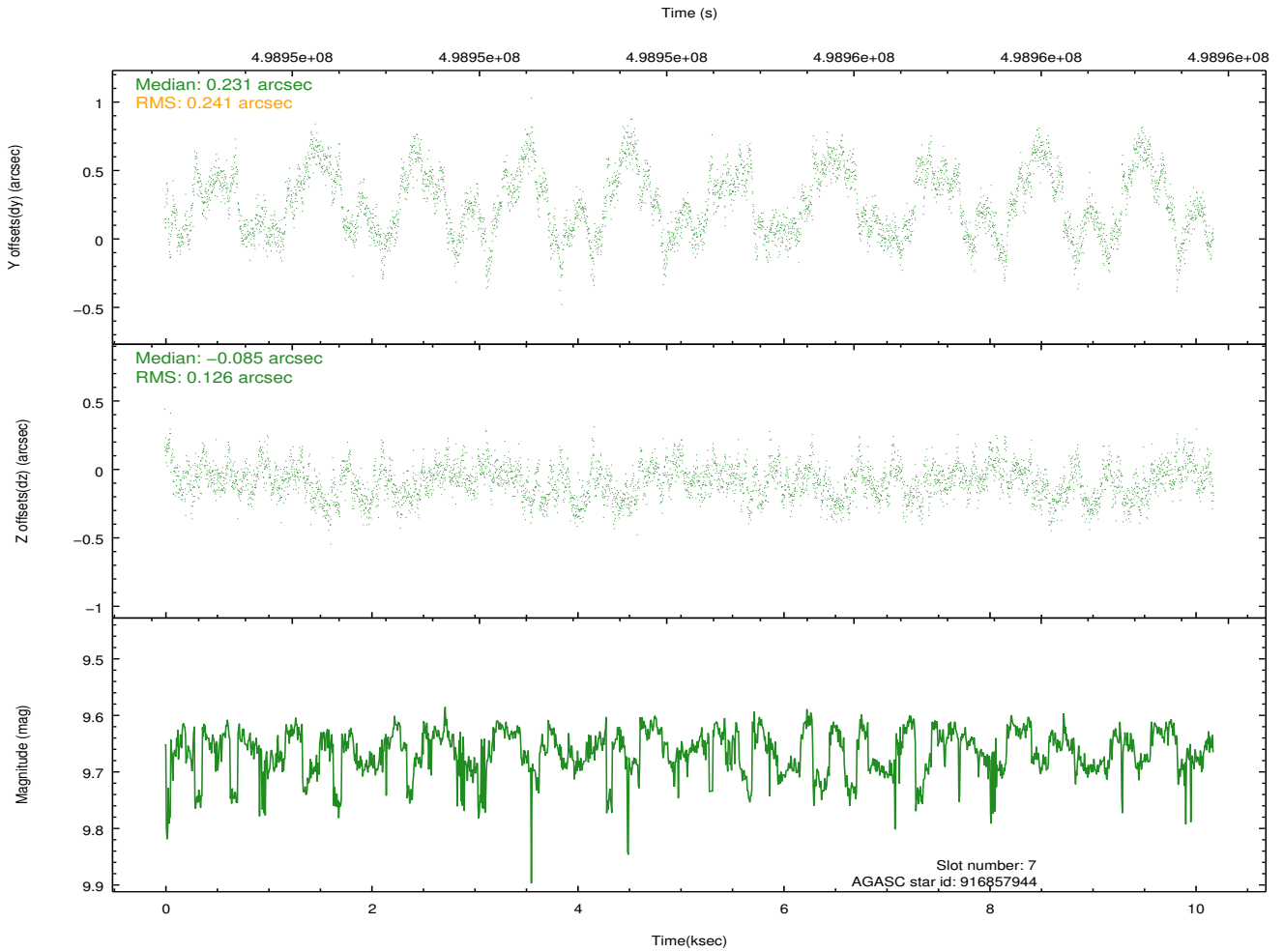
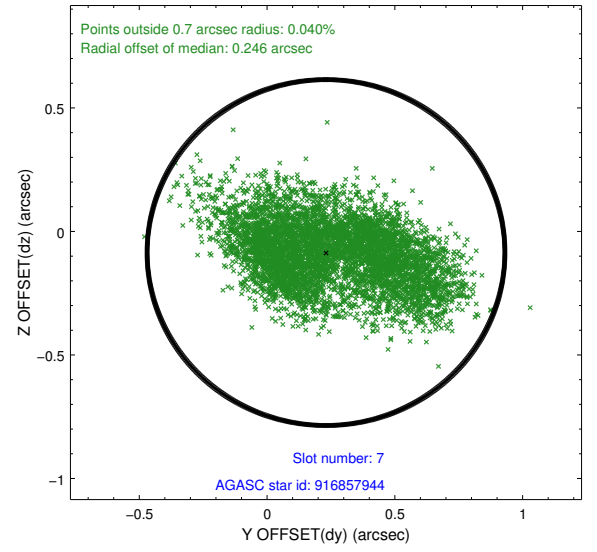
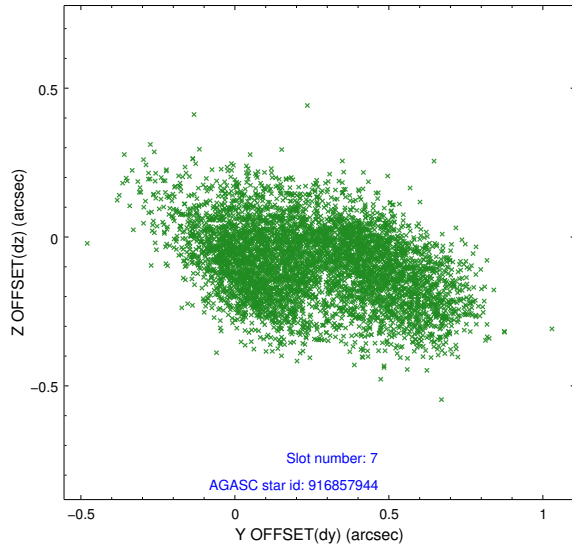
2.4.3 Slot 5



2.4.4 Slot 6

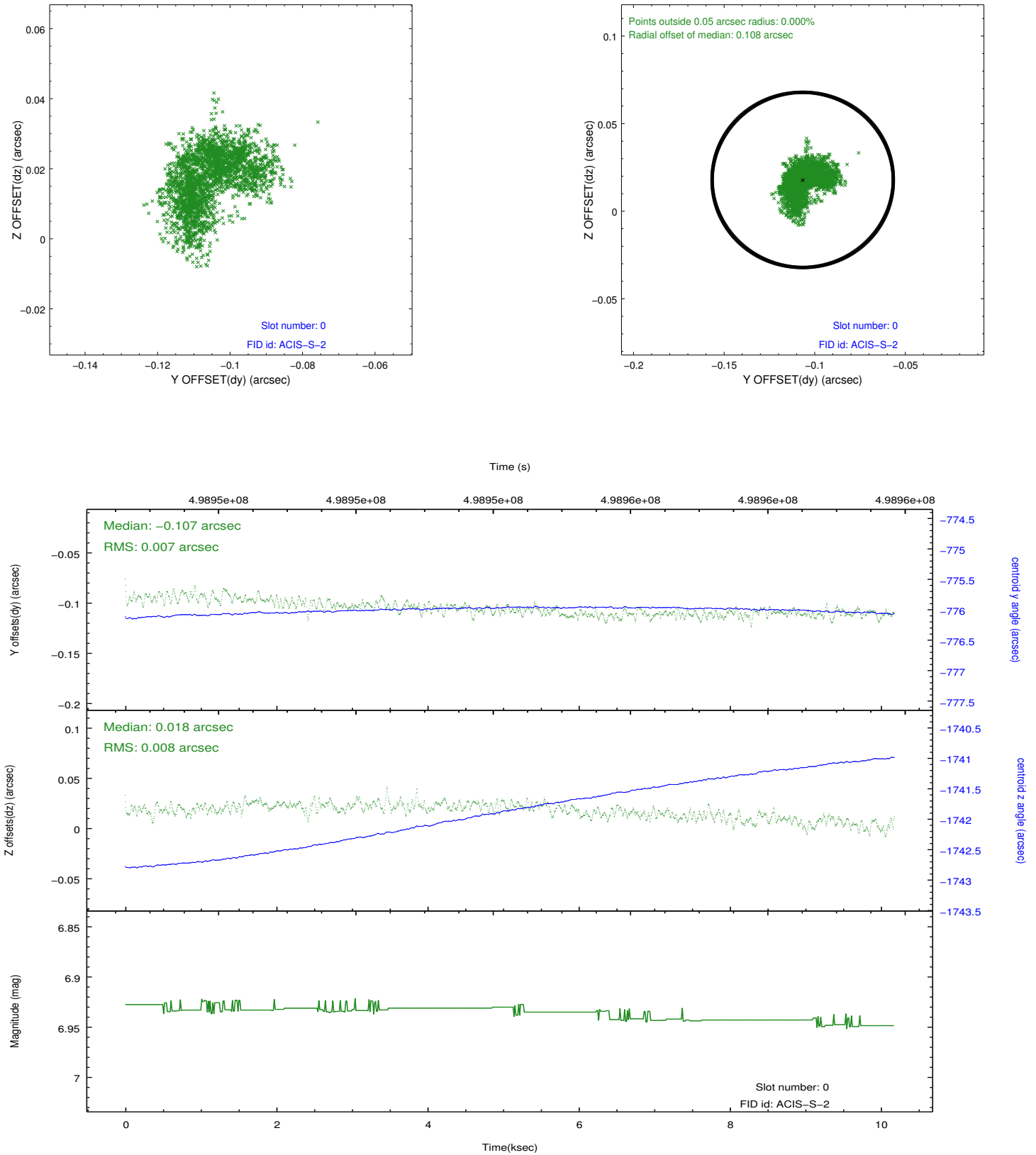


2.4.5 Slot 7

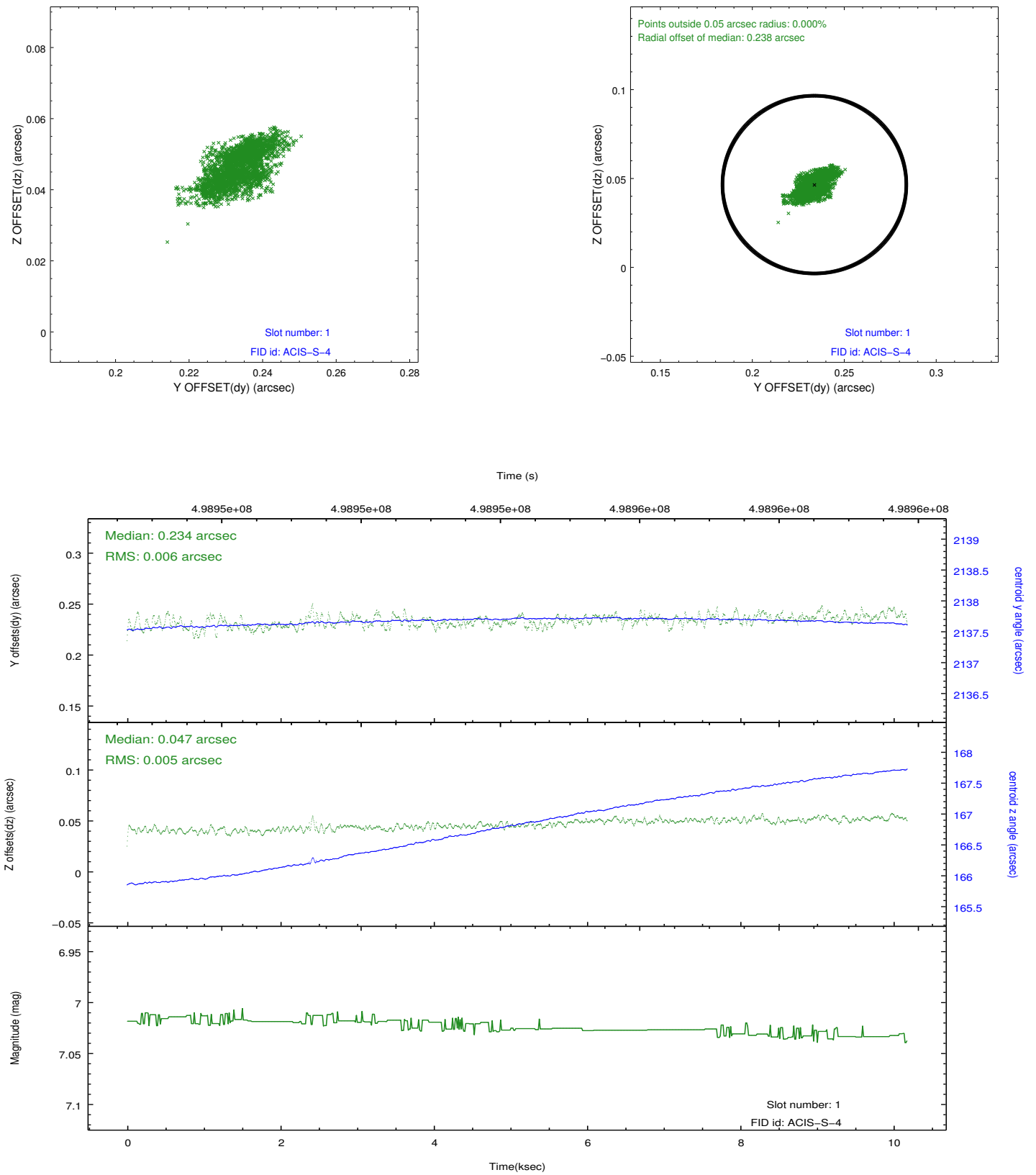


2.5 FID Slots

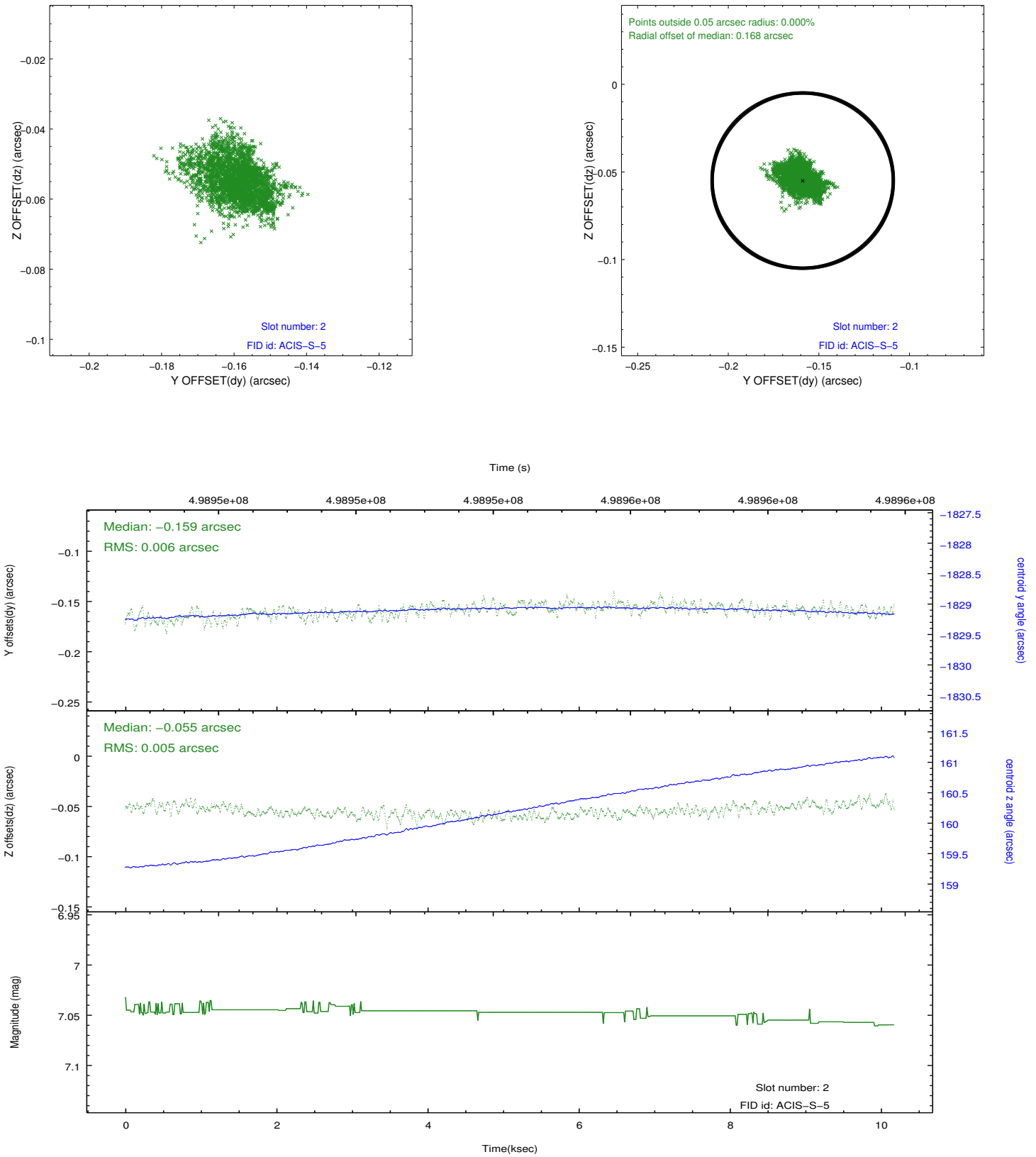
2.5.1 Slot 0



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)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.068800077438

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.