

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 7315 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Mar 28 2012

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1 Front

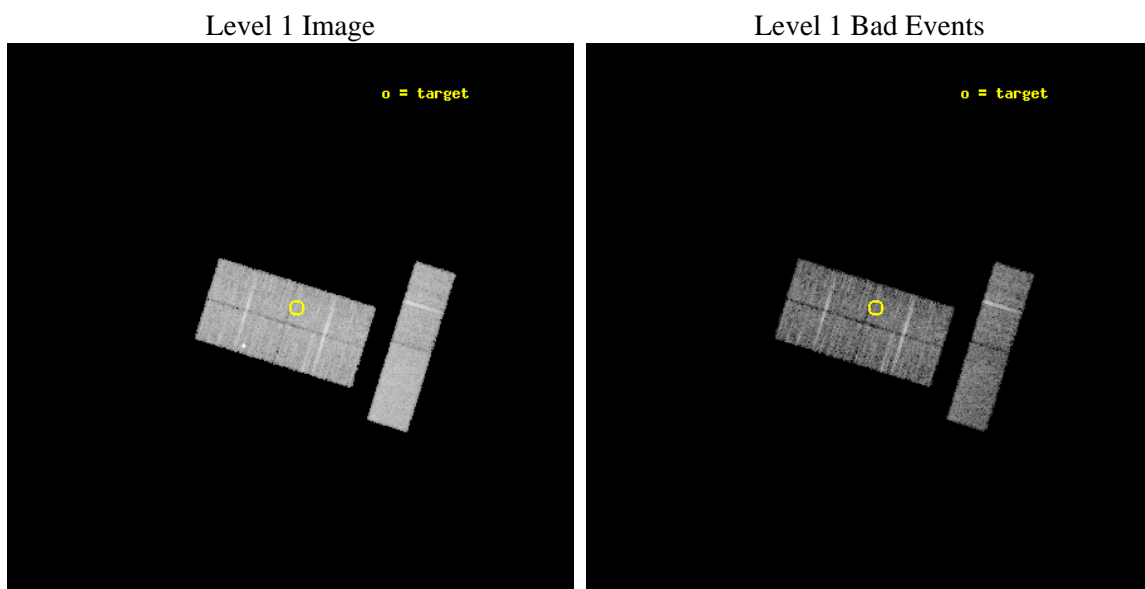
seq_num	100062	Sequence number
obs_id	7315	Observation id
title	Search for charge exchange induced X-ray emission in the Venusian exosphere	Proposal title
observer	Dr. Peter Predehl	Principal investigator
object	Venus	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	322.550978	Observer's specified target RA [deg]
dec_targ	-13.267774	Observer's specified target Dec [deg]
ra_nom	322.56317437264	Nominal RA [deg]
dec_nom	-13.300329995426	Nominal Dec [deg]
roll_nom	107.26856387025	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6391.8000423312	Sum of GTIs [s]
livetime	6249.3156456113	Livetime [s]
ontime0	6391.8000423312	Sum of GTIs [s]
ontime1	6391.8000423312	Sum of GTIs [s]
ontime2	6391.8000423312	Sum of GTIs [s]
ontime3	6391.8000423312	Sum of GTIs [s]
ontime6	6391.8000423312	Sum of GTIs [s]
ontime7	6391.8000423312	Sum of GTIs [s]
l2events	31135	Number of level 2 events



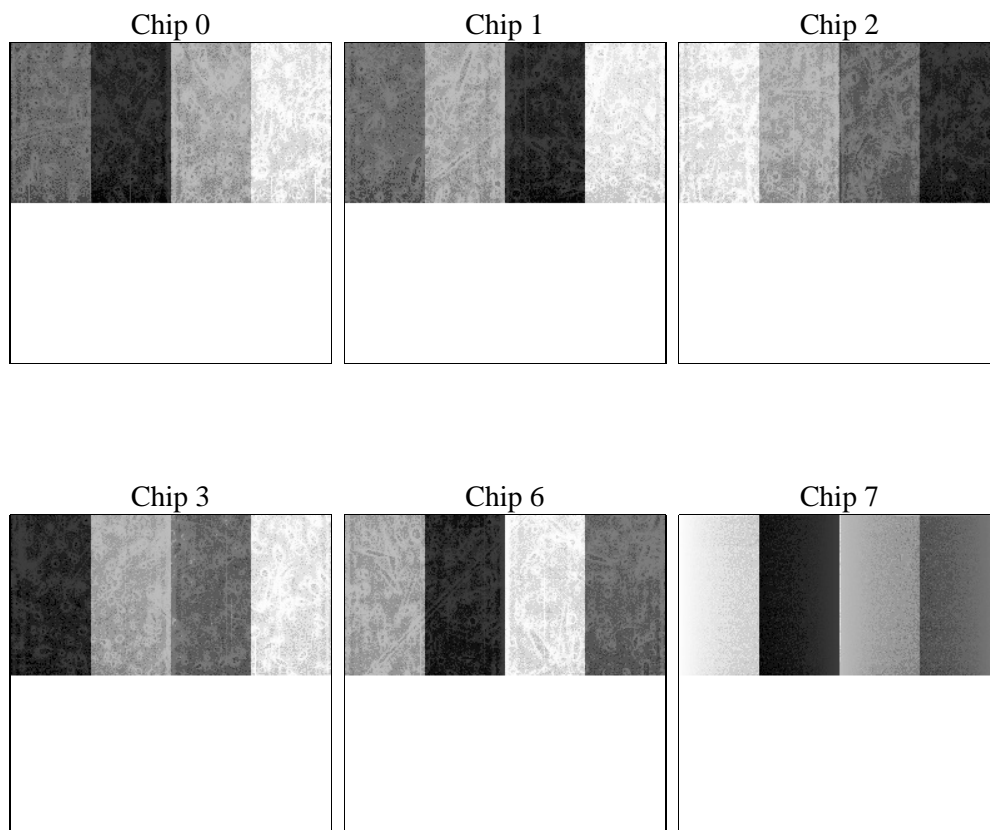
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6200.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	6391.8000423312	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	6391.8000423312	Sum of GTIs [s]
date	2012-03-28T21:36:04	Date and time of file creation	ontime1	6391.8000423312	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6391.8000423312	Sum of GTIs [s]
			ontime3	6391.8000423312	Sum of GTIs [s]
			ontime6	6391.8000423312	Sum of GTIs [s]
			ontime7	6391.8000423312	Sum of GTIs [s]
			l1events	204572	Number of level 1 events

2.1.4 Events

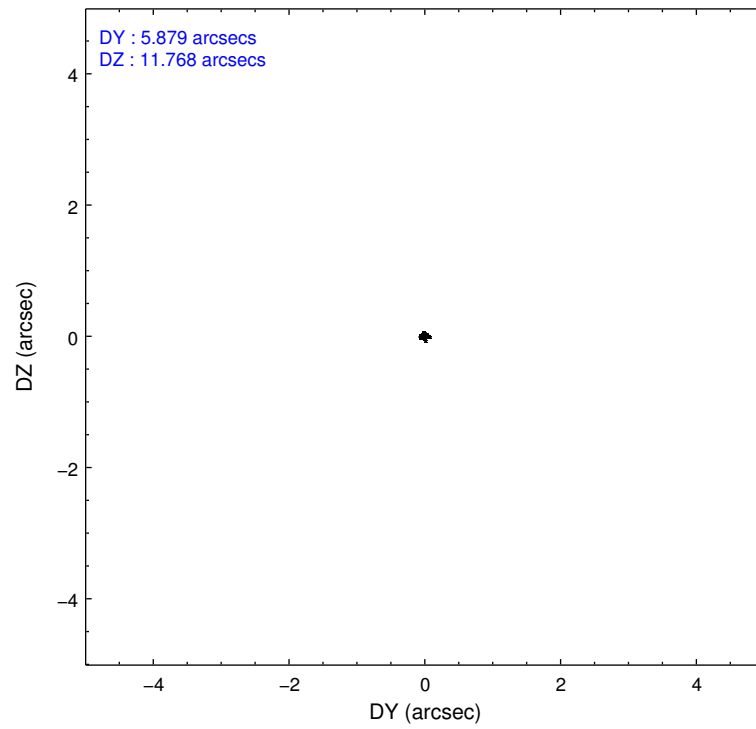
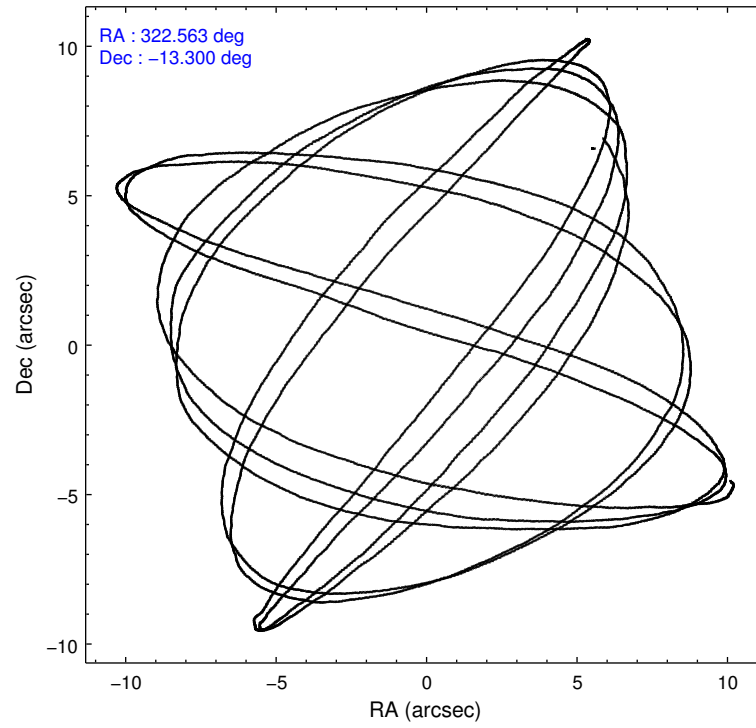
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	30933	31774	32281	32535	35135	41914	grade 0 events	1638	2683	1583	1515	1449	1643
rejected events	27261	27043	28711	29062	31487	25387		5%	8%	4%	4%	4%	3%
rejected %	88%	85%	88%	89%	89%	60%	grade 1 events	29	25	19	27	20	63
								0%	0%	0%	0%	0%	0%
							grade 2 events	757	818	767	627	792	3582
								2%	2%	2%	1%	2%	8%
							grade 3 events	398	393	425	419	411	1691
								1%	1%	1%	1%	1%	4%
							grade 4 events	370	359	413	419	442	1606
								1%	1%	1%	1%	1%	3%
							grade 5 events	1208	1276	1243	1436	1483	4076
								3%	4%	3%	4%	4%	9%
							grade 6 events	690	718	582	645	741	8842
								2%	2%	1%	1%	2%	21%
							grade 7 events	25843	25502	27249	27447	29797	20411
								83%	80%	84%	84%	84%	48%

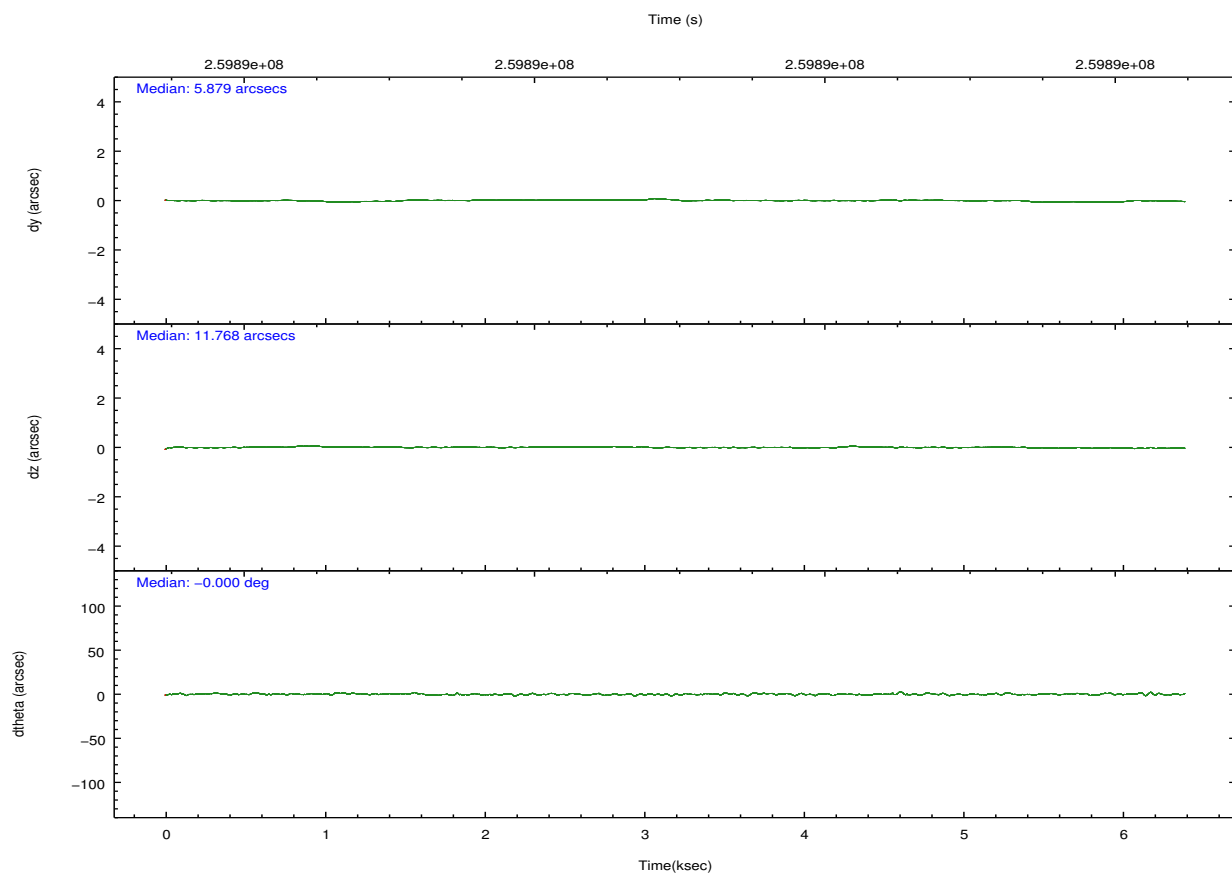
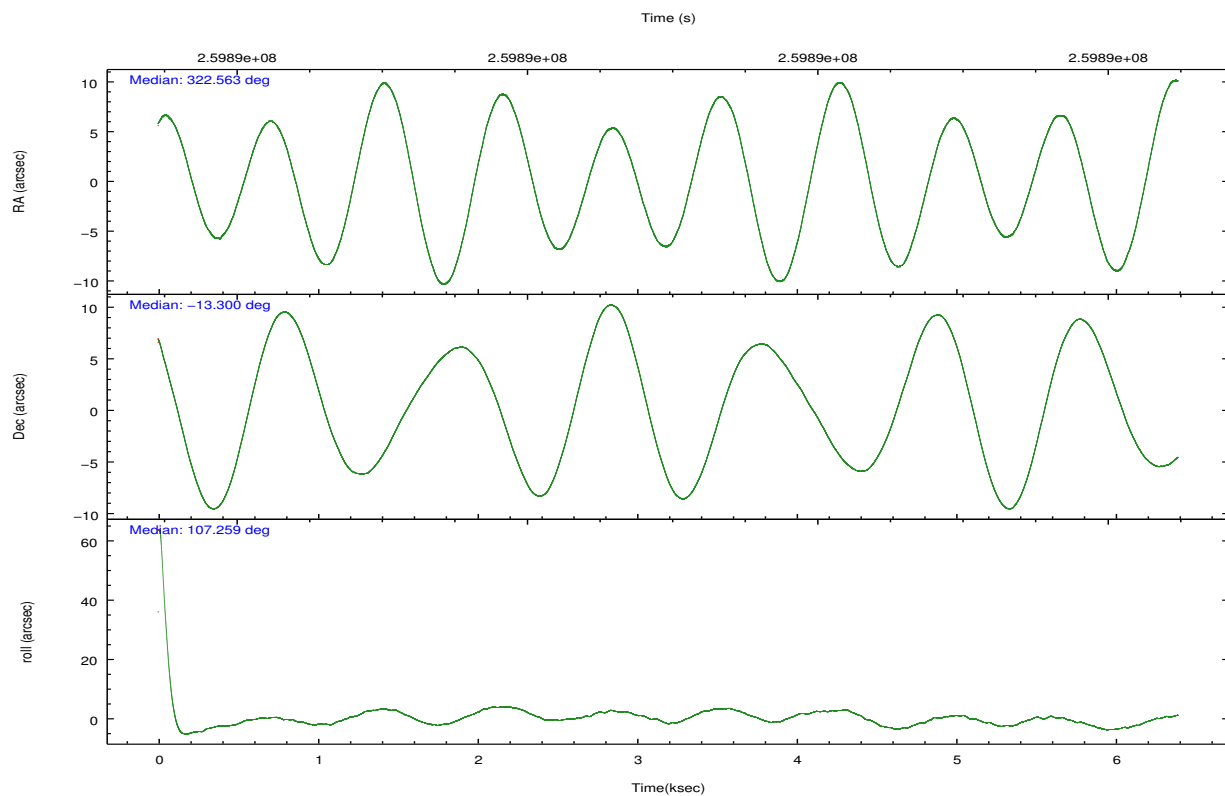
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	322.583904	322.5631743726384
[deg] Pointing Dec	-13.318784	-13.30032999542649
[deg] Pointing Roll	107.064513	107.2685638702546
[s] Window start time (MET)	258076865.184000	258076865.184000
[s] Window stop time (MET)	261705665.184000	261705665.184000
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	259887962.184000	259887586.1983
Observation start date	2006-03-27T23:04:57	2006-03-27T22:59:46
[s] Observation end time (MET)	259894162.184000	259894296.36111
Observation end date	2006-03-28T00:48:17	2006-03-28T00:51:36
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	CUSTOM	1/2
Subarray start row	513	513
Subarray row count	512	512
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	1.8

2.3 Aspect



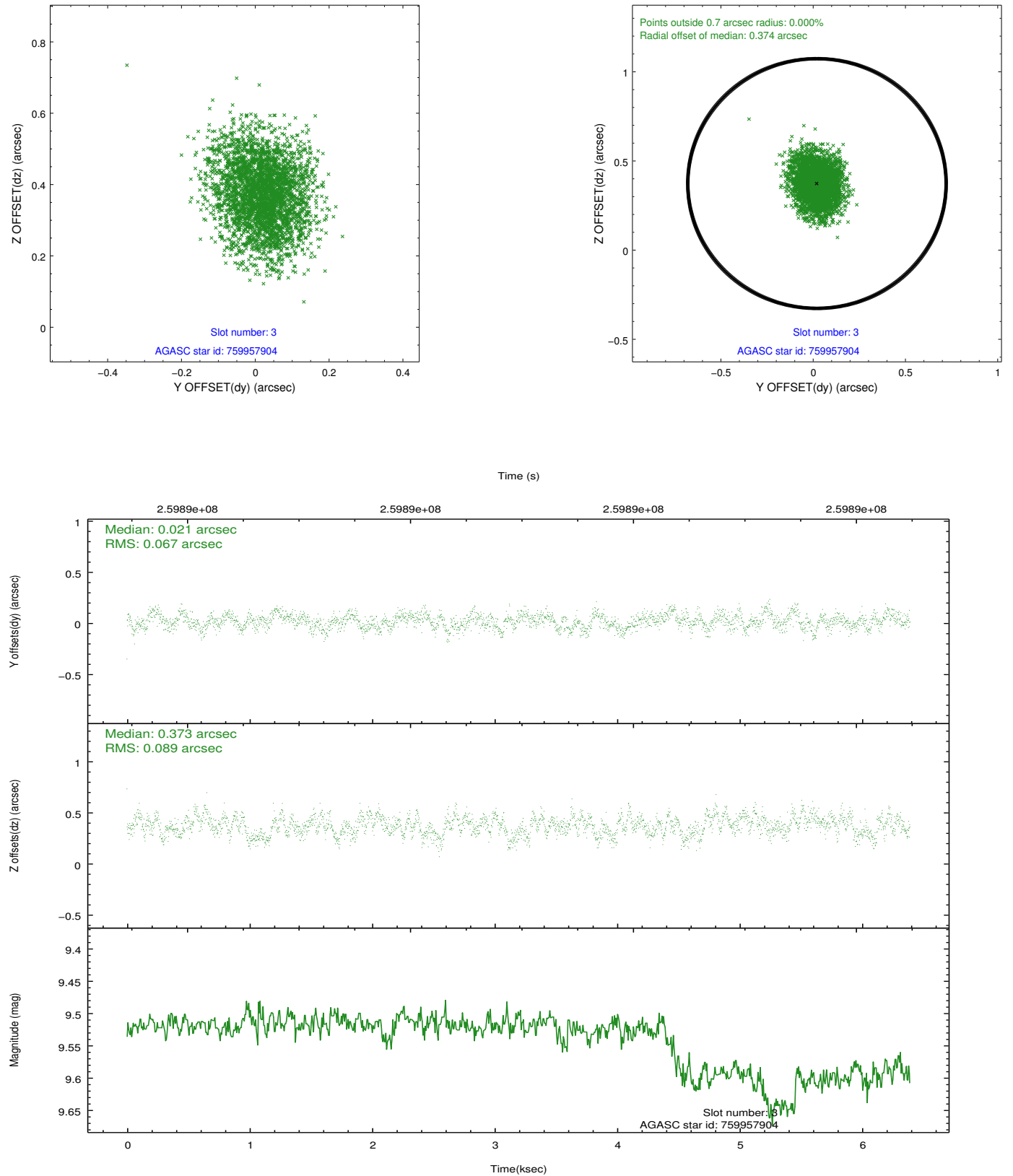


Slot Statistics

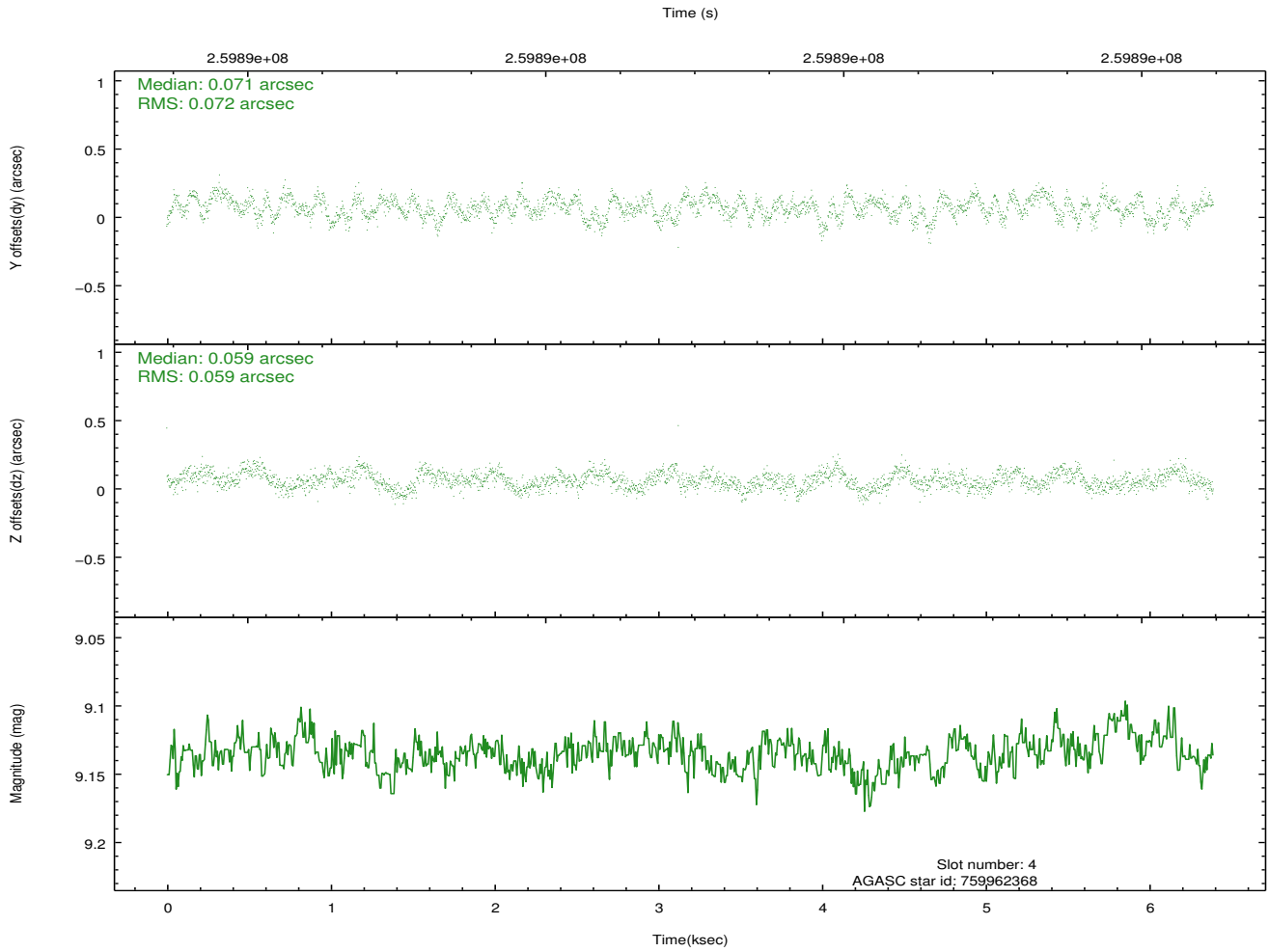
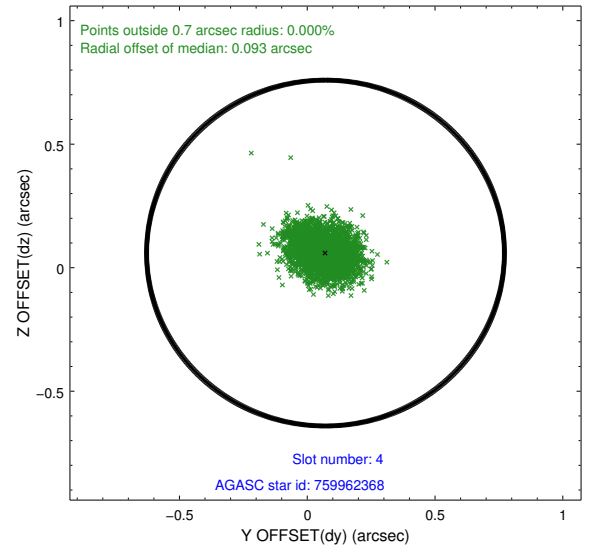
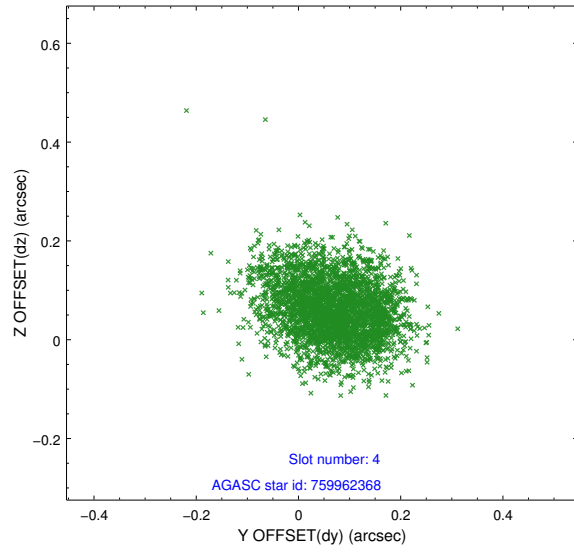
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	1560	0.026	-0.083	0.006	0.013	0.000000	0.000000	-760.34	-841.71
1	FID	ACIS-I-5	7.23	1560	-0.090	0.131	0.006	0.013	0.000000	0.000000	-1814.91	1061.92
2	UNUSED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	759957904	9.53	3115	0.021	0.373	0.119	0.191	323.275906	-13.544143	-1488.78	-2075.83
4	GUIDE	759962368	9.14	3117	0.071	0.059	0.099	0.156	322.267195	-13.797795	-1324.64	1564.36
5	GUIDE	759962544	9.42	3115	0.029	-0.154	0.105	0.174	322.119077	-13.952845	-1707.43	2223.24
6	GUIDE	759963784	9.93	2974	0.040	-0.076	0.160	0.282	322.079300	-13.771695	-1043.18	2166.46
7	GUIDE	759962280	7.91	3118	-0.158	-0.205	0.065	0.102	322.001957	-13.698366	-712.22	2348.46

2.4 Star Slots

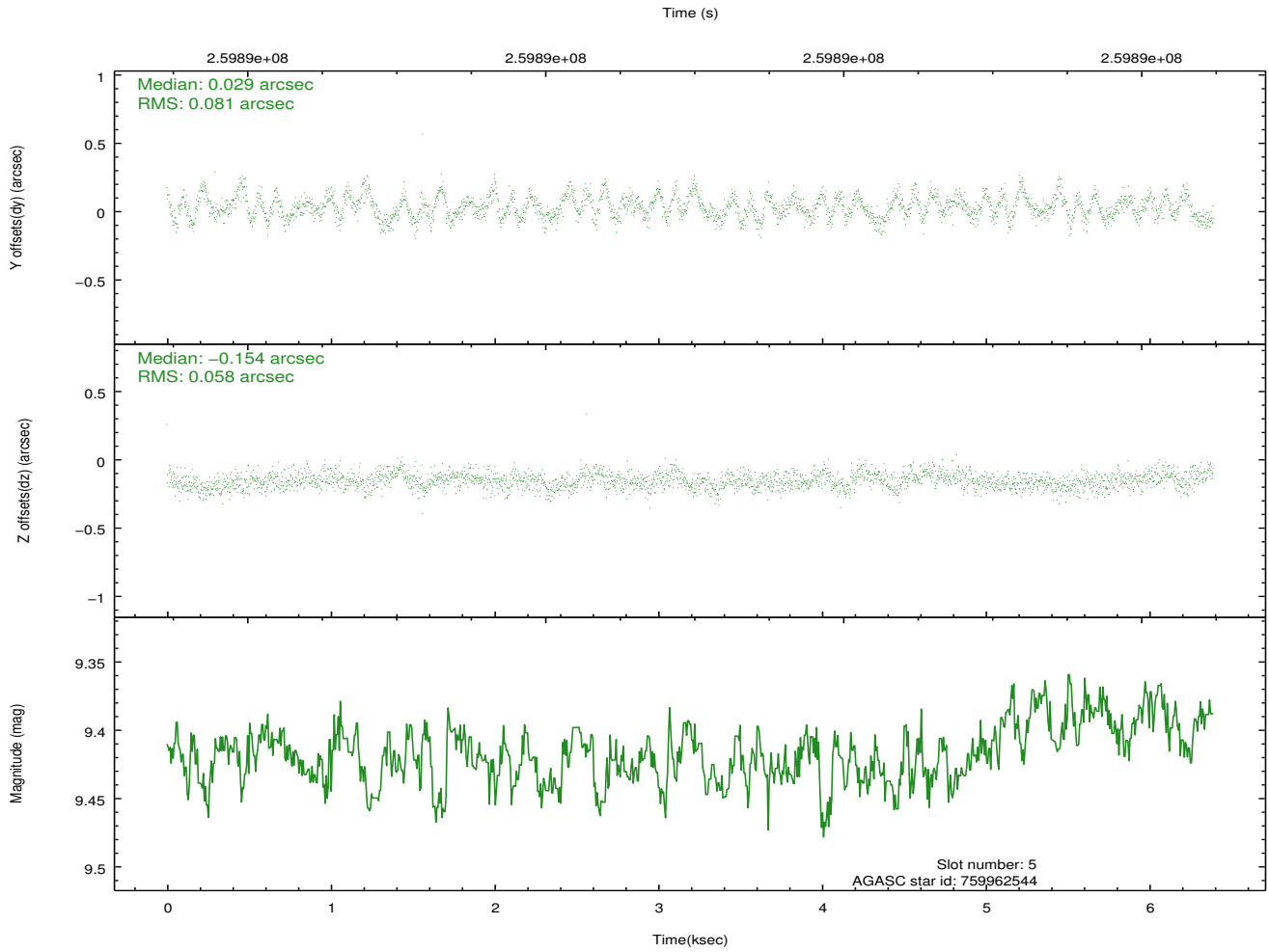
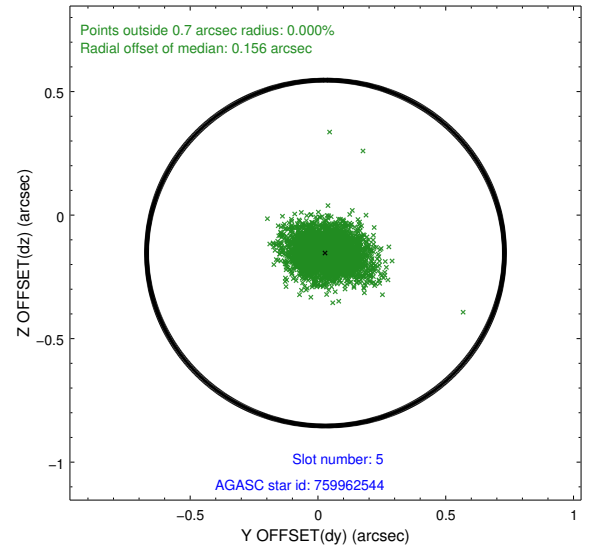
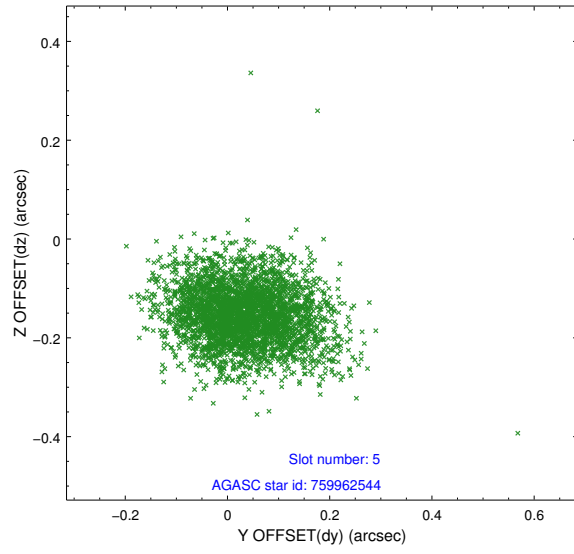
2.4.1 Slot 3



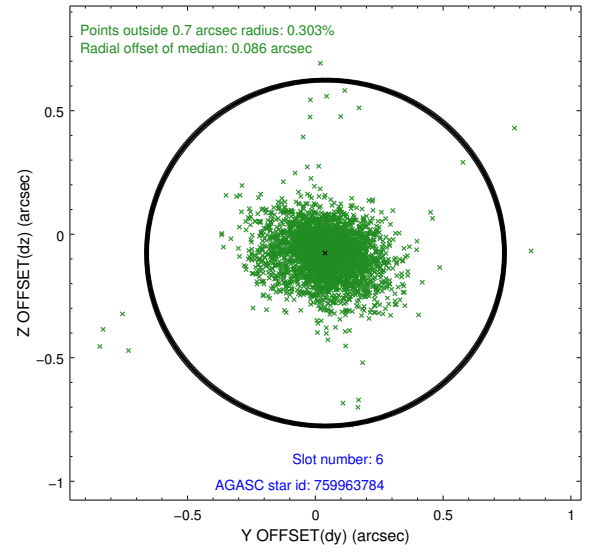
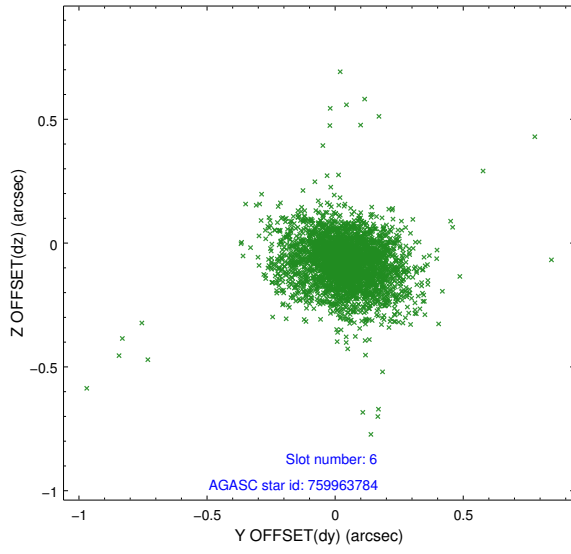
2.4.2 Slot 4



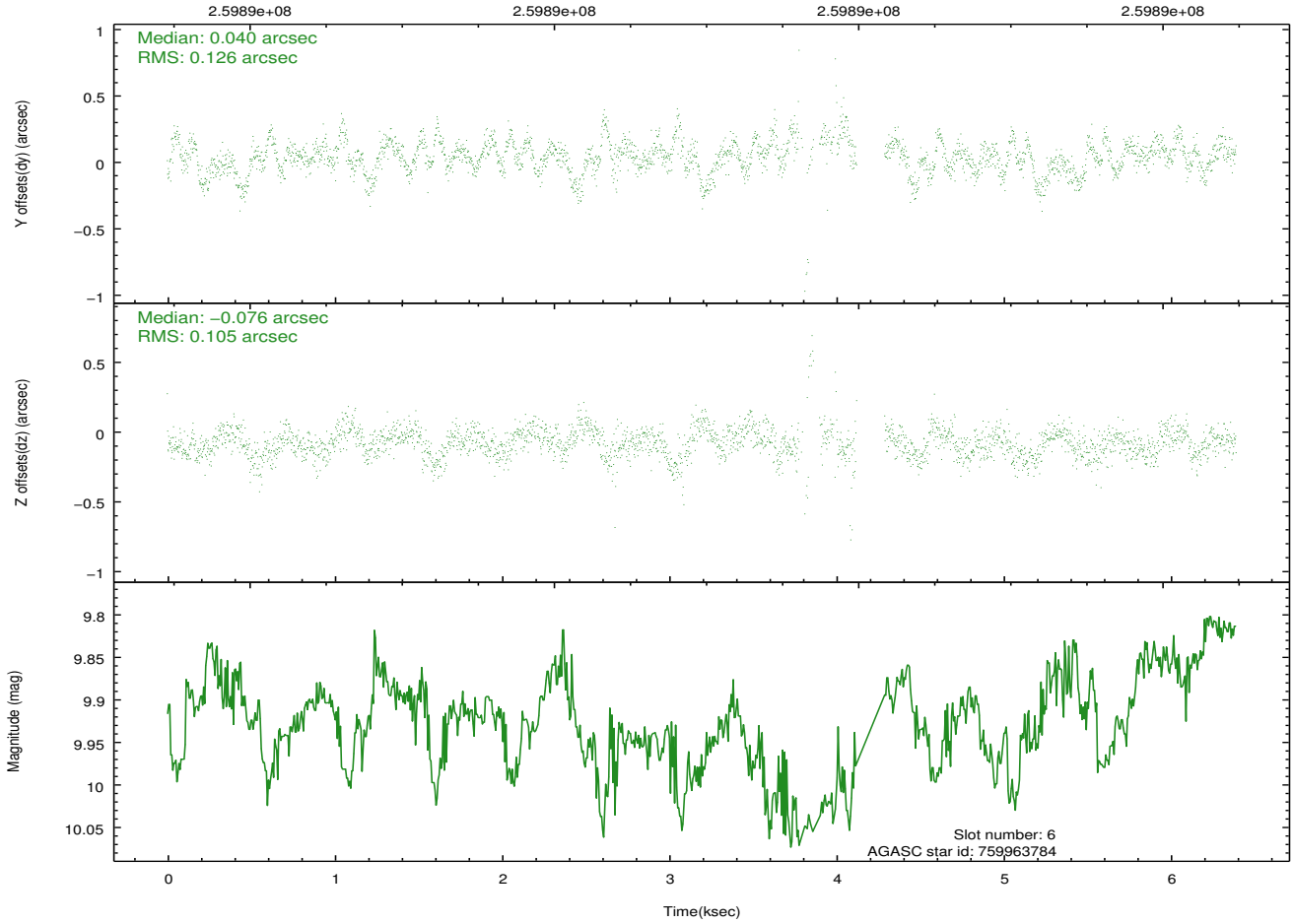
2.4.3 Slot 5



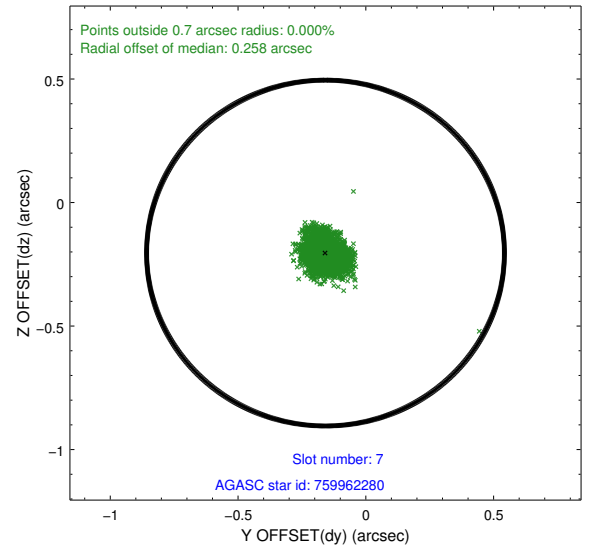
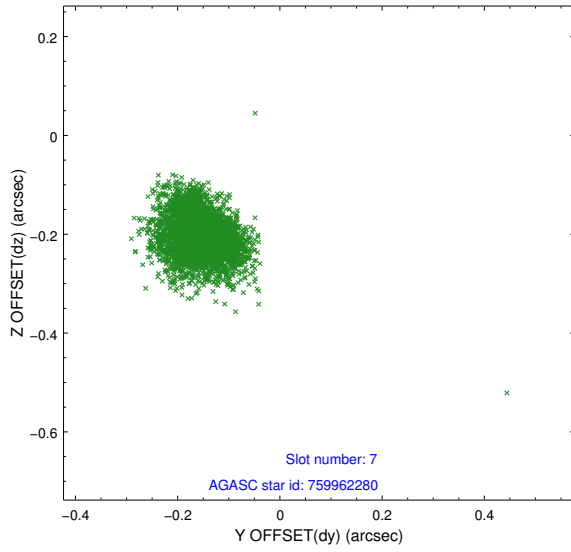
2.4.4 Slot 6



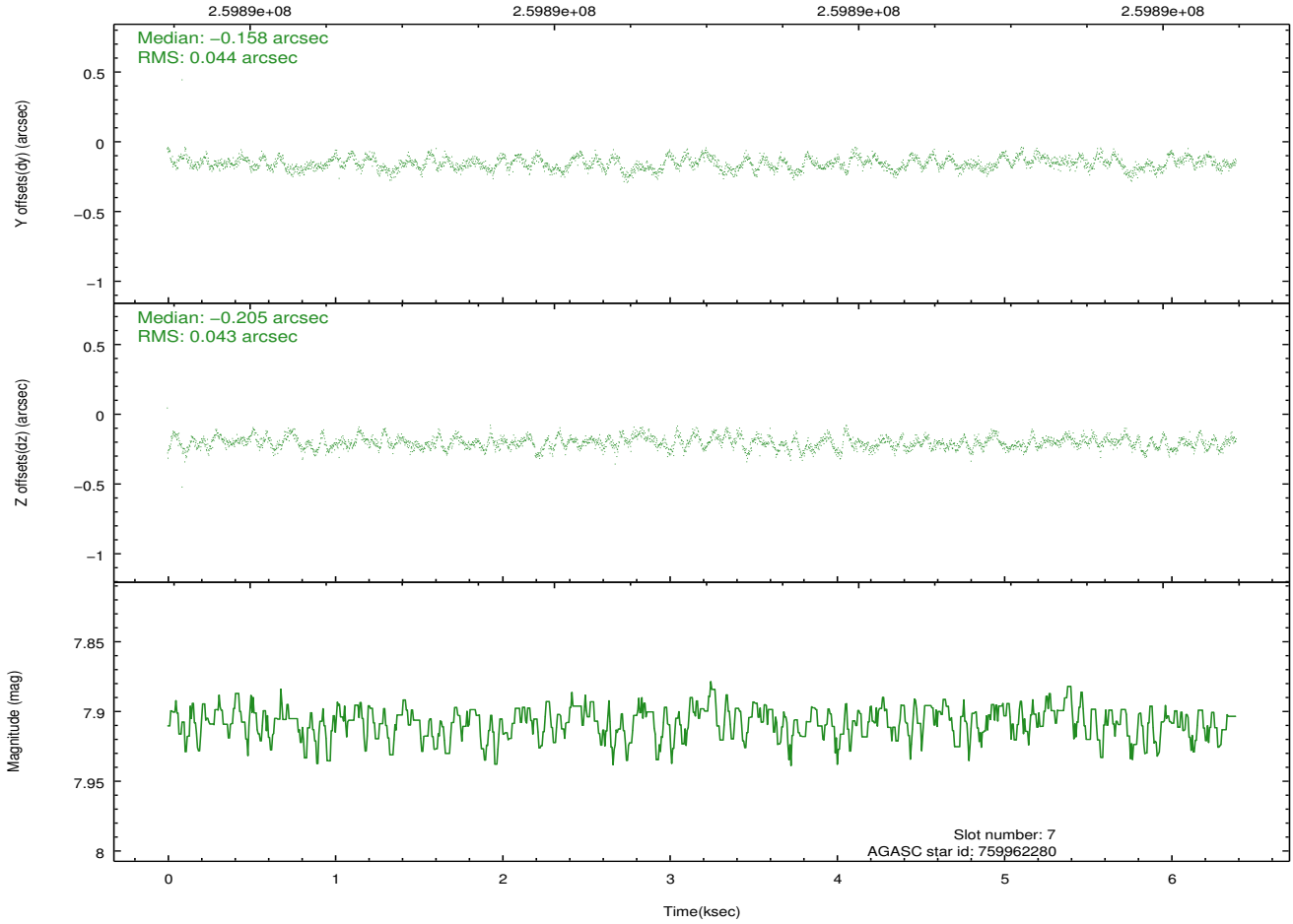
Time (s)



2.4.5 Slot 7

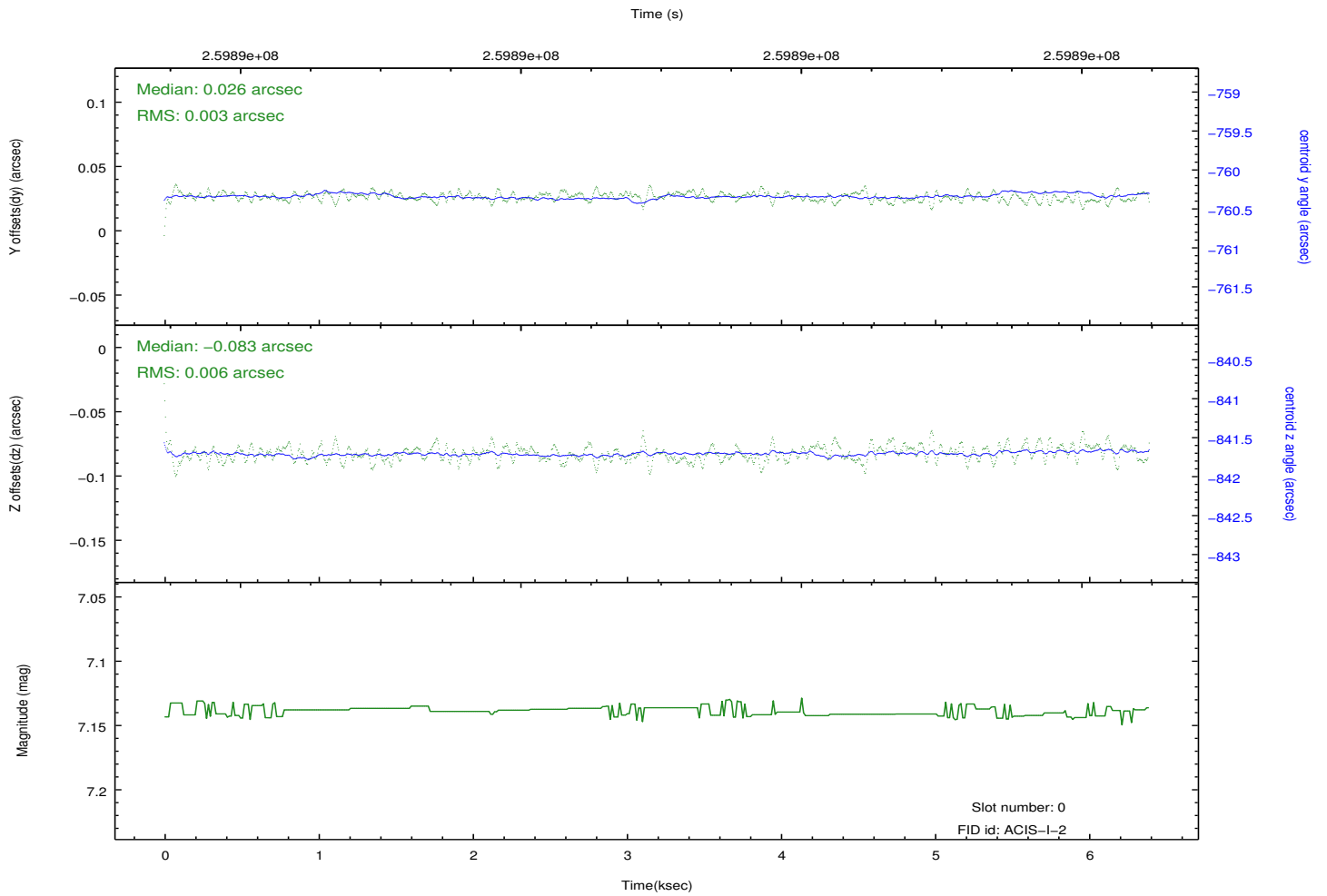
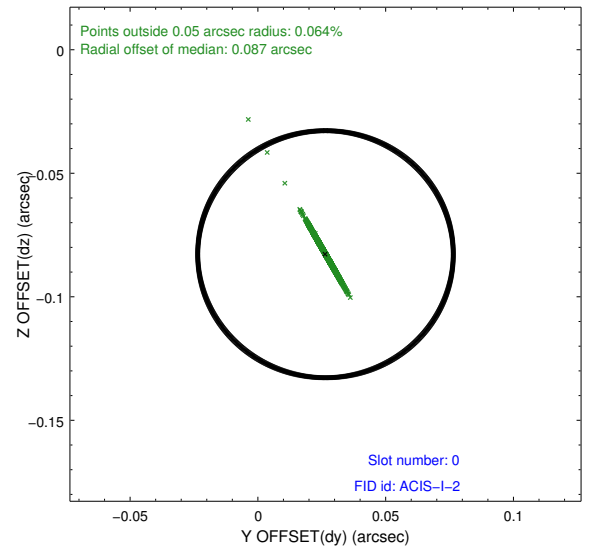
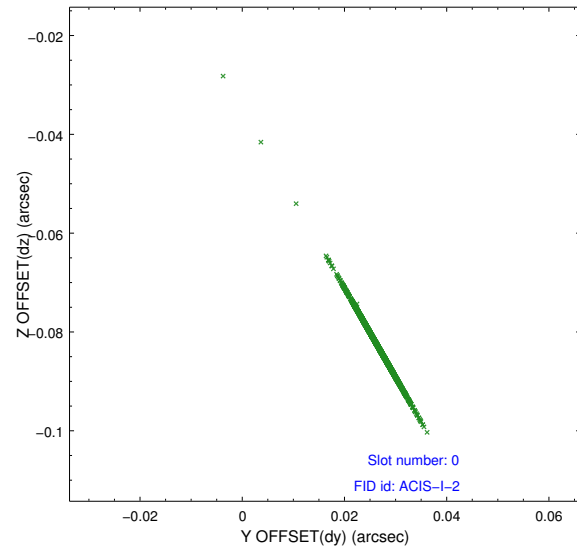


Time (s)

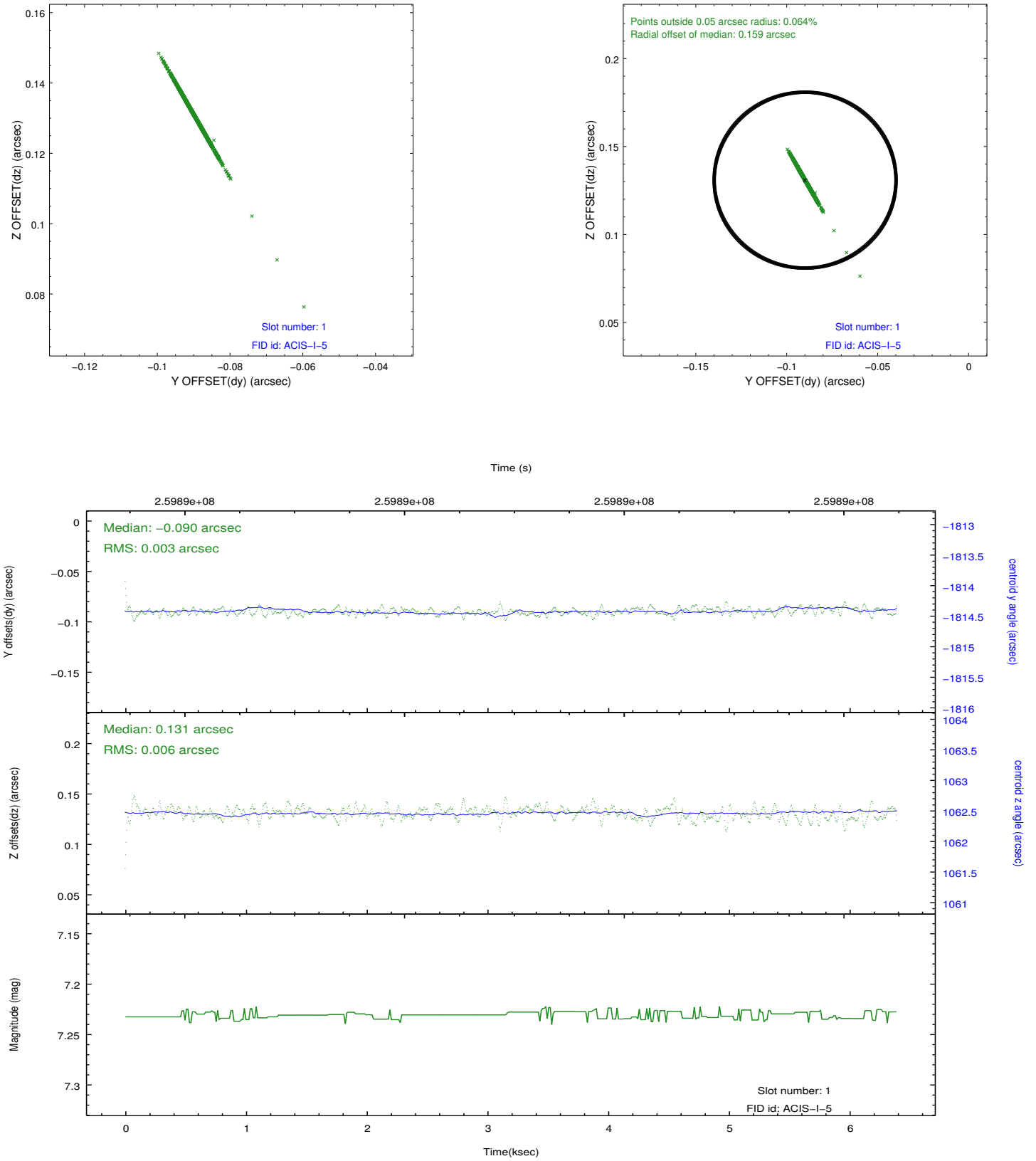


2.5 FID Slots

2.5.1 Slot 0



2.5.2 Slot 1



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.03.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.39180004

A.2 Comments

Window preference met.

Slot 2 was not utilized in this observation.