

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18301 - L2 Version 2
Chandra X-Ray Center

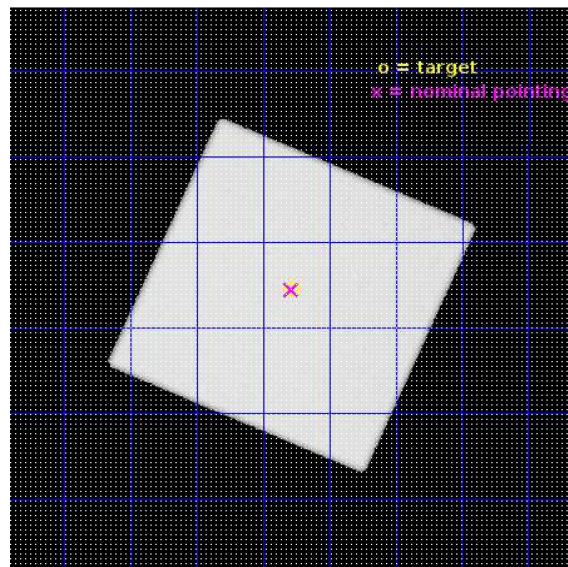
L2 Processing Date : Feb 8 2017

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1 Front

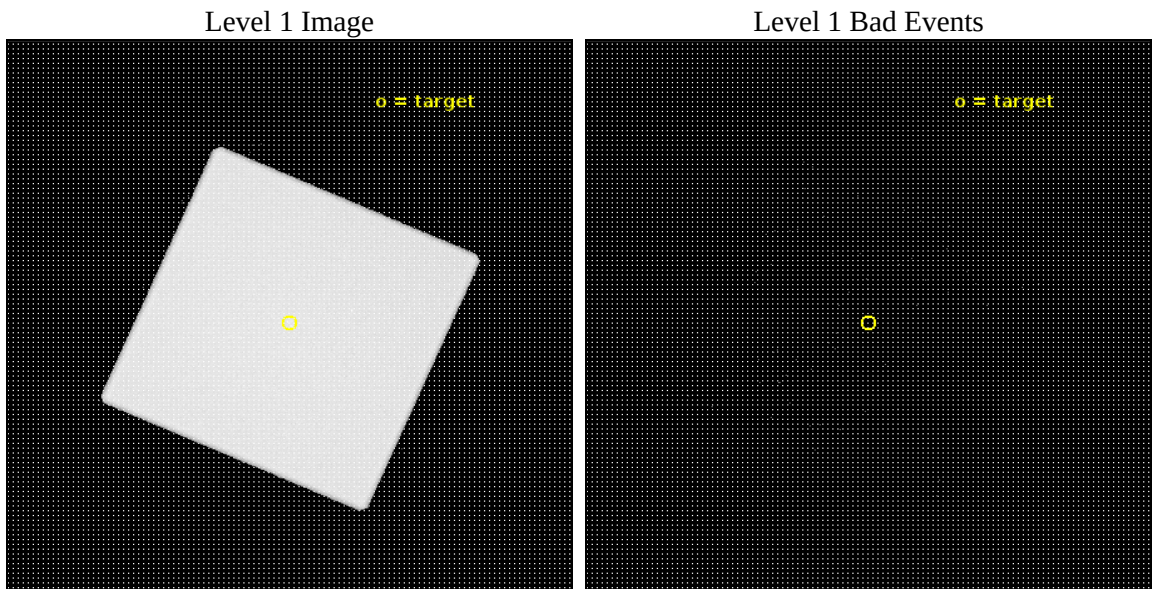
seq_num	100156	Sequence number
obs_id	18301	Observation id
title	Disecting the Morphology of Jupiter's Auroral Hot Spot	Proposal t
observer	Dr. Randy Gladstone	Principal investigator
object	Jupiter	Source name
ra_targ	201.694954	Observer's specified target RA [deg]
dec_targ	-7.592522	Observer's specified target Dec [deg]
ra_nom	201.69643399737	Nominal RA [deg]
dec_nom	-7.5925430801989	Nominal Dec [deg]
roll_nom	68.691773797918	Nominal Roll [deg]
revision	2	Processing version of data
ontime	33505.970691442	[s]
livetime	32732.131074742	Ontime multiplied by DTCOR
l2events	3633542	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	33350.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	33505.970691442	[s]
caldbver	4.7.3	 	l1events	4923997	Number of level 1 events
date	2017-02-08T16:54:15	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

Level 1 Events

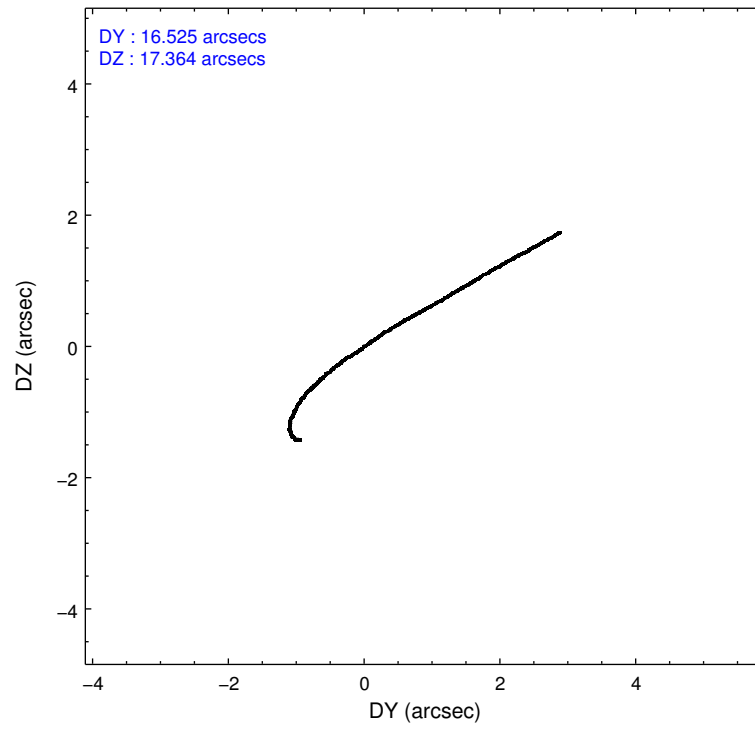
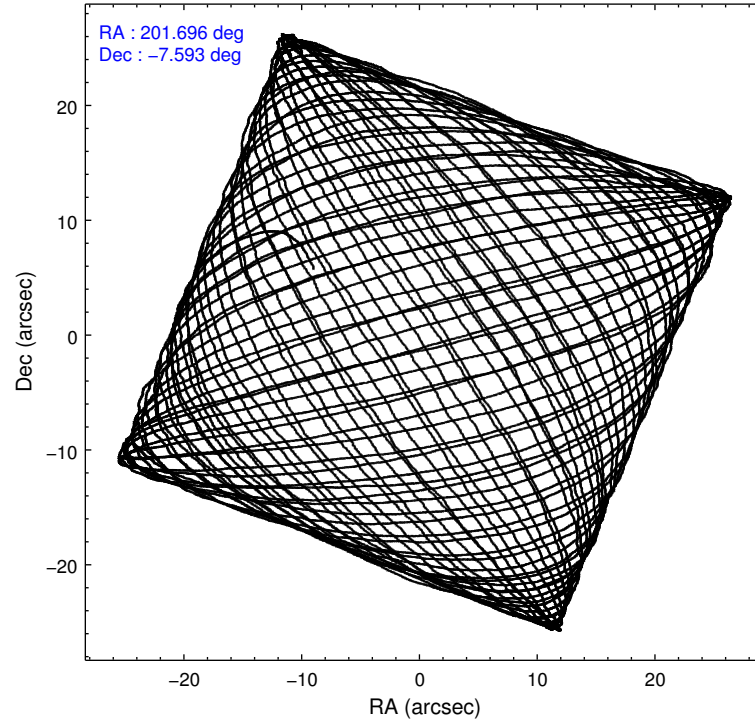
	segment 0
level 1 events	4923997
rejected events	141771
rejected %	2%

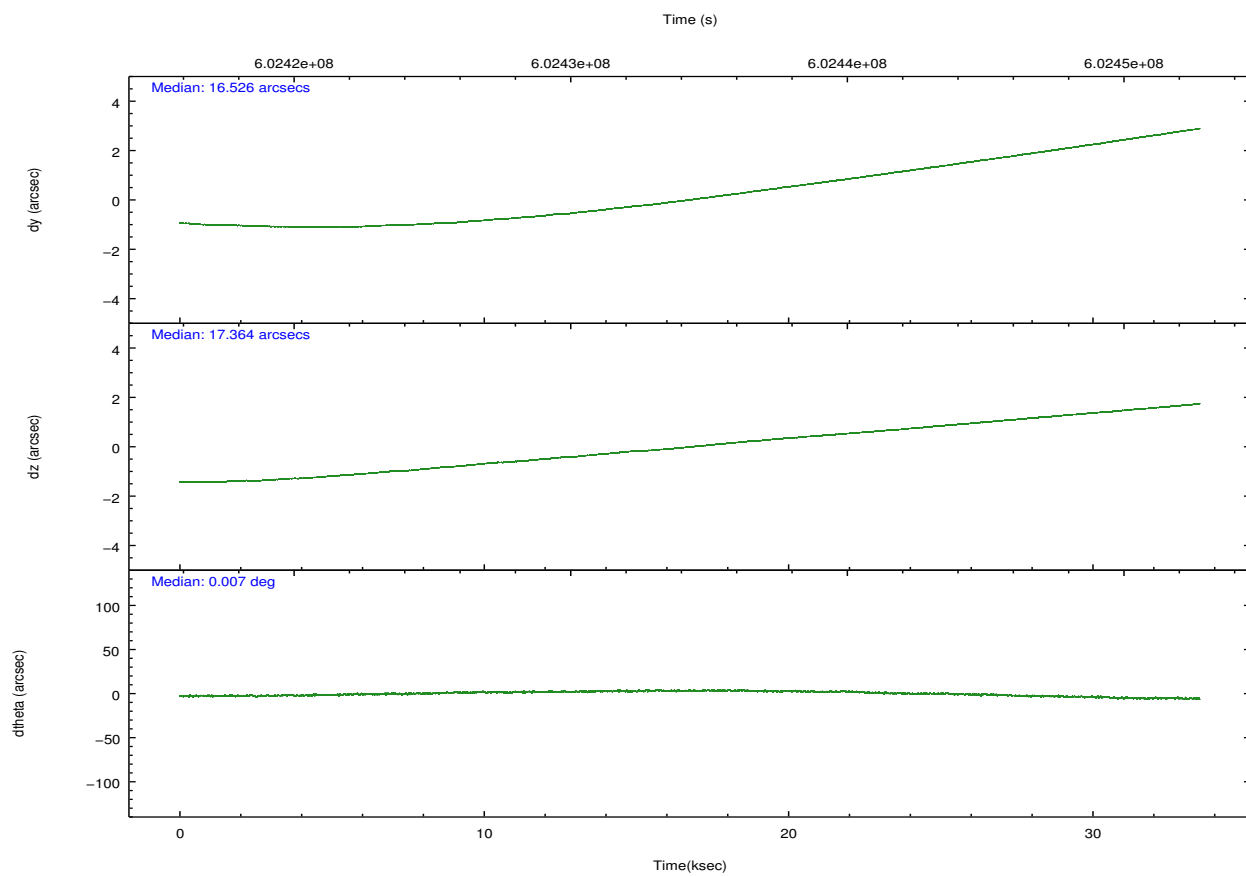
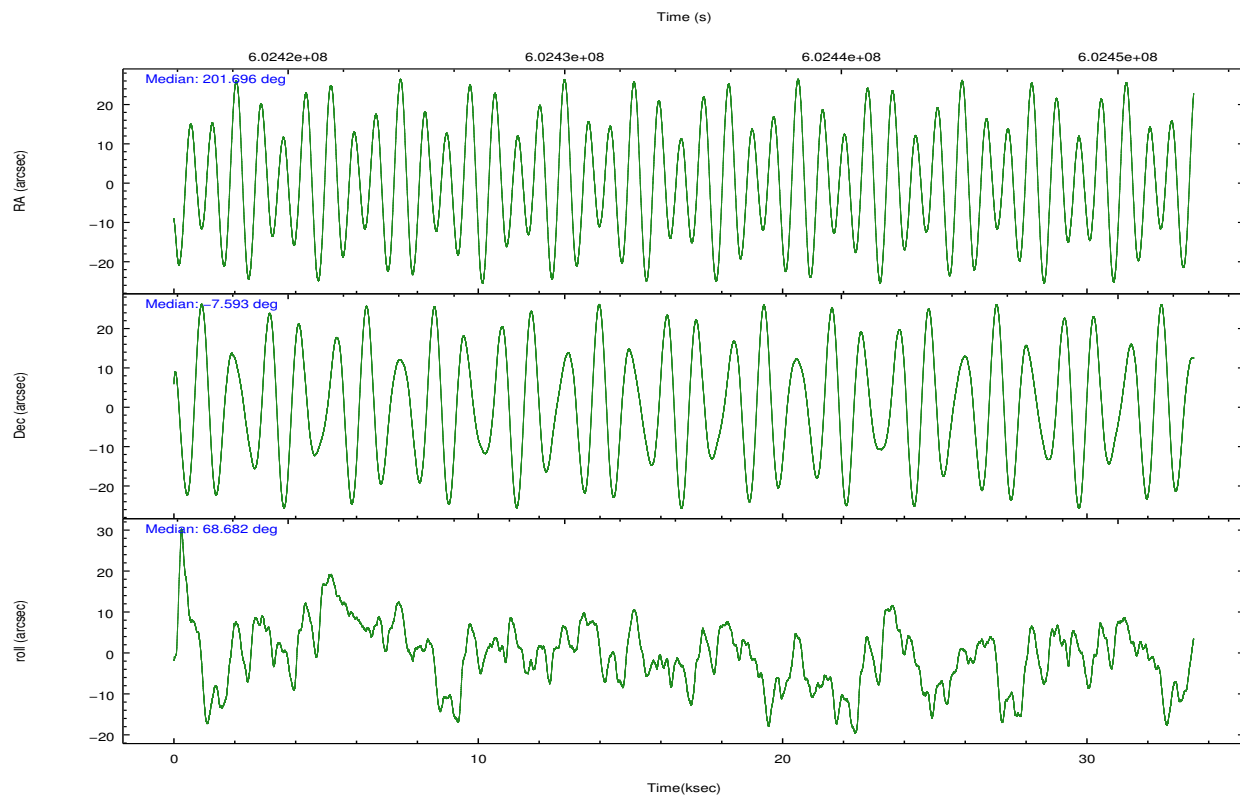
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
[deg] Pointing RA	201.701248	201.6964339973661
[deg] Pointing Dec	-7.619418	-7.592543080198943
[deg] Pointing Roll	68.787901	68.69177379791834
[mm] SIM focus pos	-1.040293	-1.038866356238299
[mm] SIM defocus	0	0.001426264420575141
[mm] SIM translation stage pos	126.985494	126.9829799899862
[mm] SIM translation stage offset	0	0.002508901615314585
[s] Observation start time (MET)	602417728.184000	602416686.3880399
Observation start date	2017-02-02T10:14:19	2017-02-02T09:58:06
[s] Observation end time (MET)	602451078.184000	602451738.82757
Observation end date	2017-02-02T19:30:09	2017-02-02T19:42:18

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect



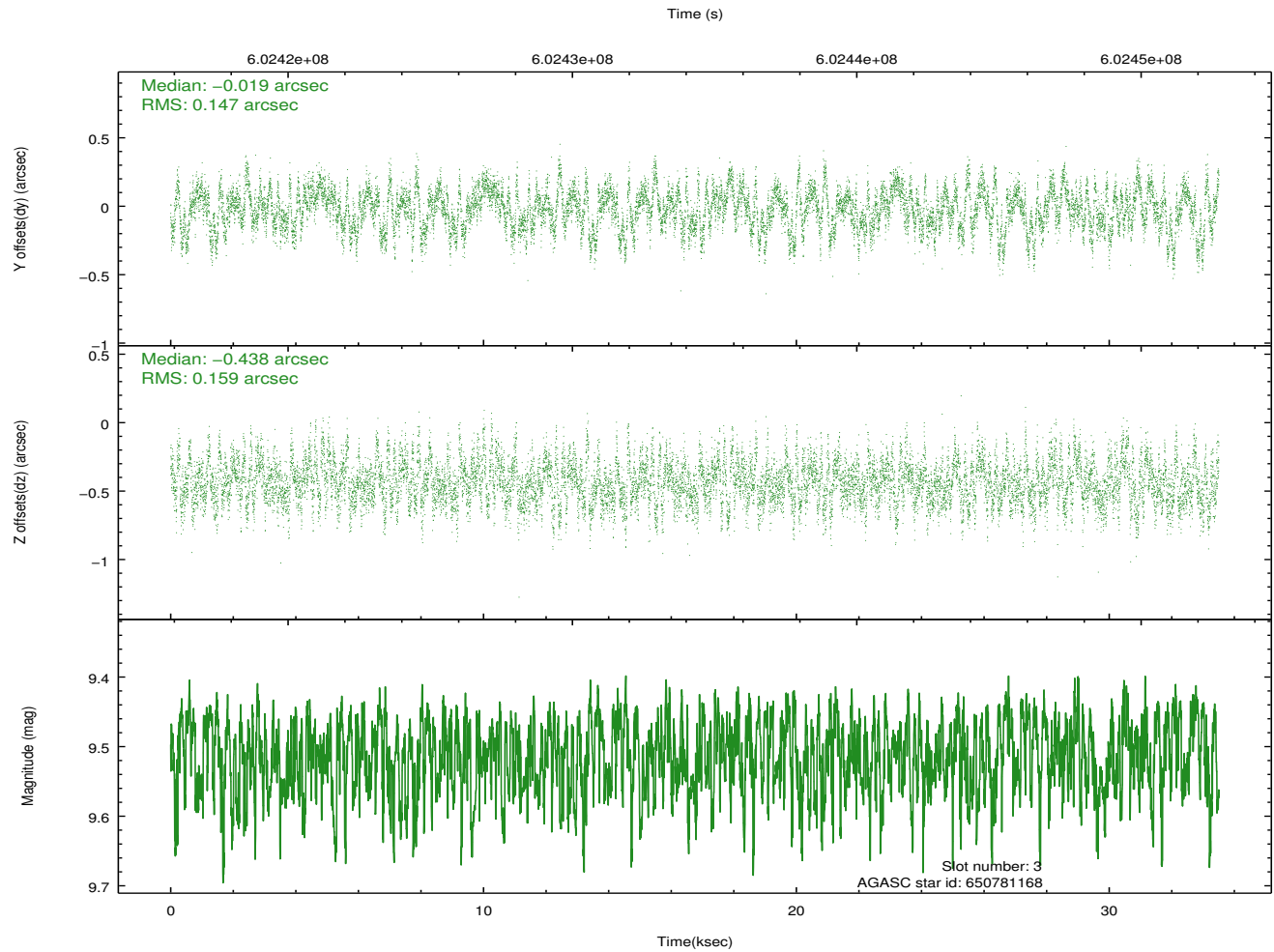
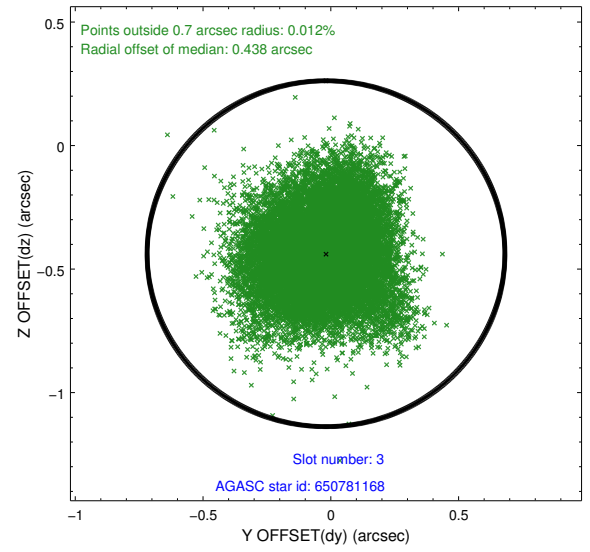
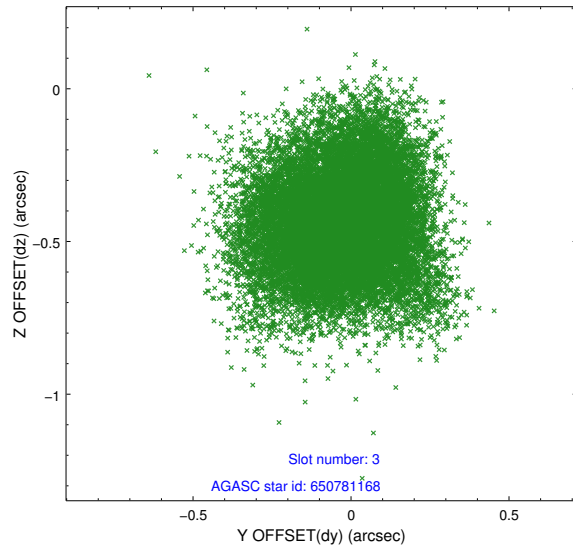


Slot Statistics

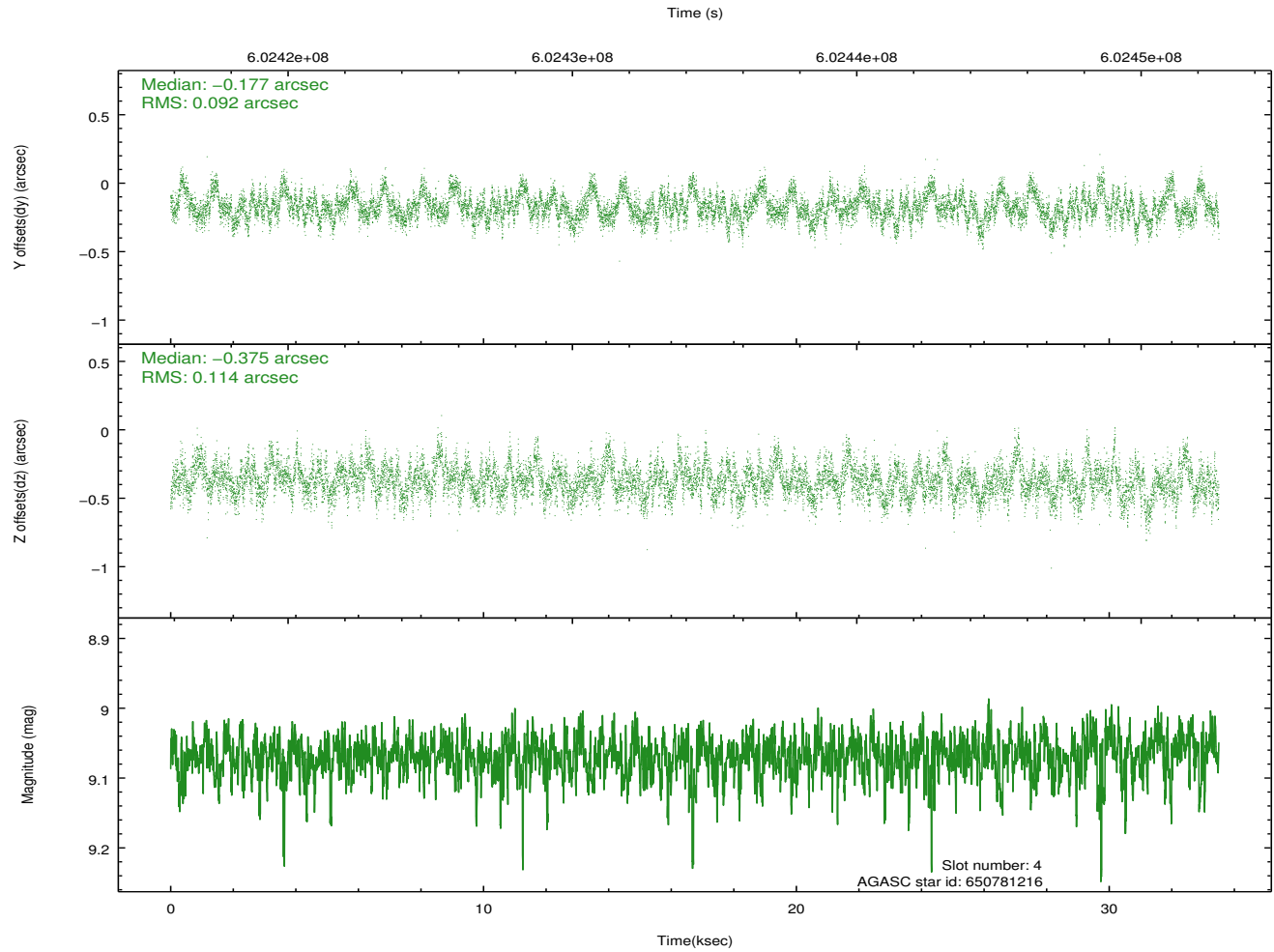
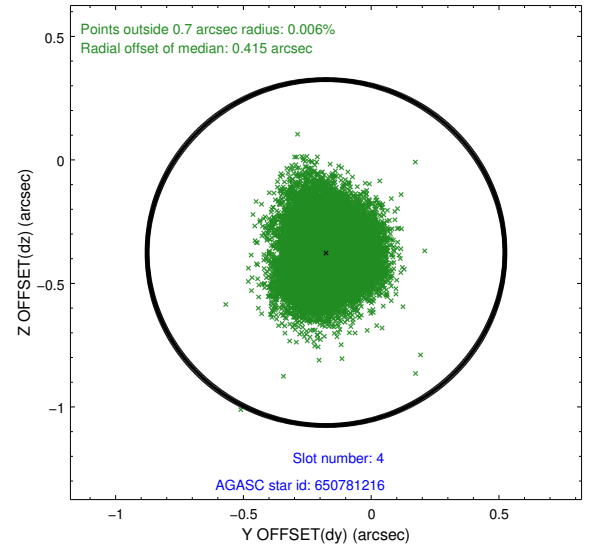
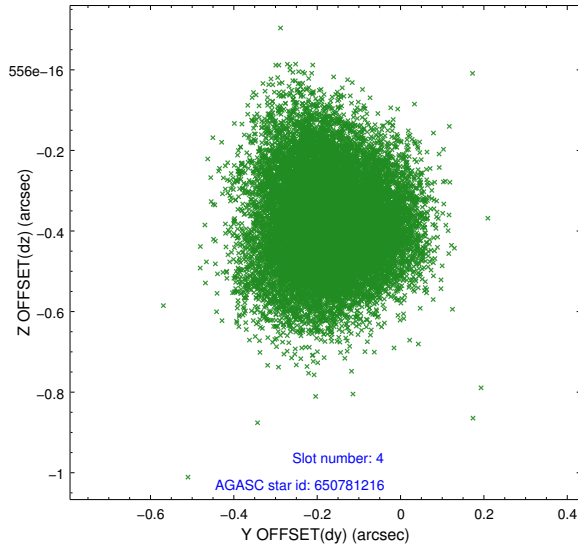
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.00	8171	-0.180	0.010	0.020	0.033	0.000000	0.000000	-772.83	-1305.55
1	FID		HRC-I-2	7.03	8173	0.343	-0.136	0.021	0.039	0.000000	0.000000	840.23	-1307.37
2	FID		HRC-I-3	7.09	8173	-0.046	0.036	0.016	0.031	0.000000	0.000000	-1201.14	998.87
3	GUIDE	used	650781168	9.51	16315	-0.019	-0.438	0.232	0.369	201.265336	-7.158328	982.53	2052.72
4	GUIDE	used	650781216	9.07	16337	-0.177	-0.375	0.158	0.252	201.255694	-7.092183	1192.70	2170.03
5	GUIDE	used	726799552	9.62	16319	0.410	0.647	0.188	0.313	201.921551	-7.867516	-547.58	-1055.27
6	GUIDE	used	650779664	8.39	16338	-0.212	0.174	0.114	0.188	202.004281	-7.027175	2378.93	-237.58
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

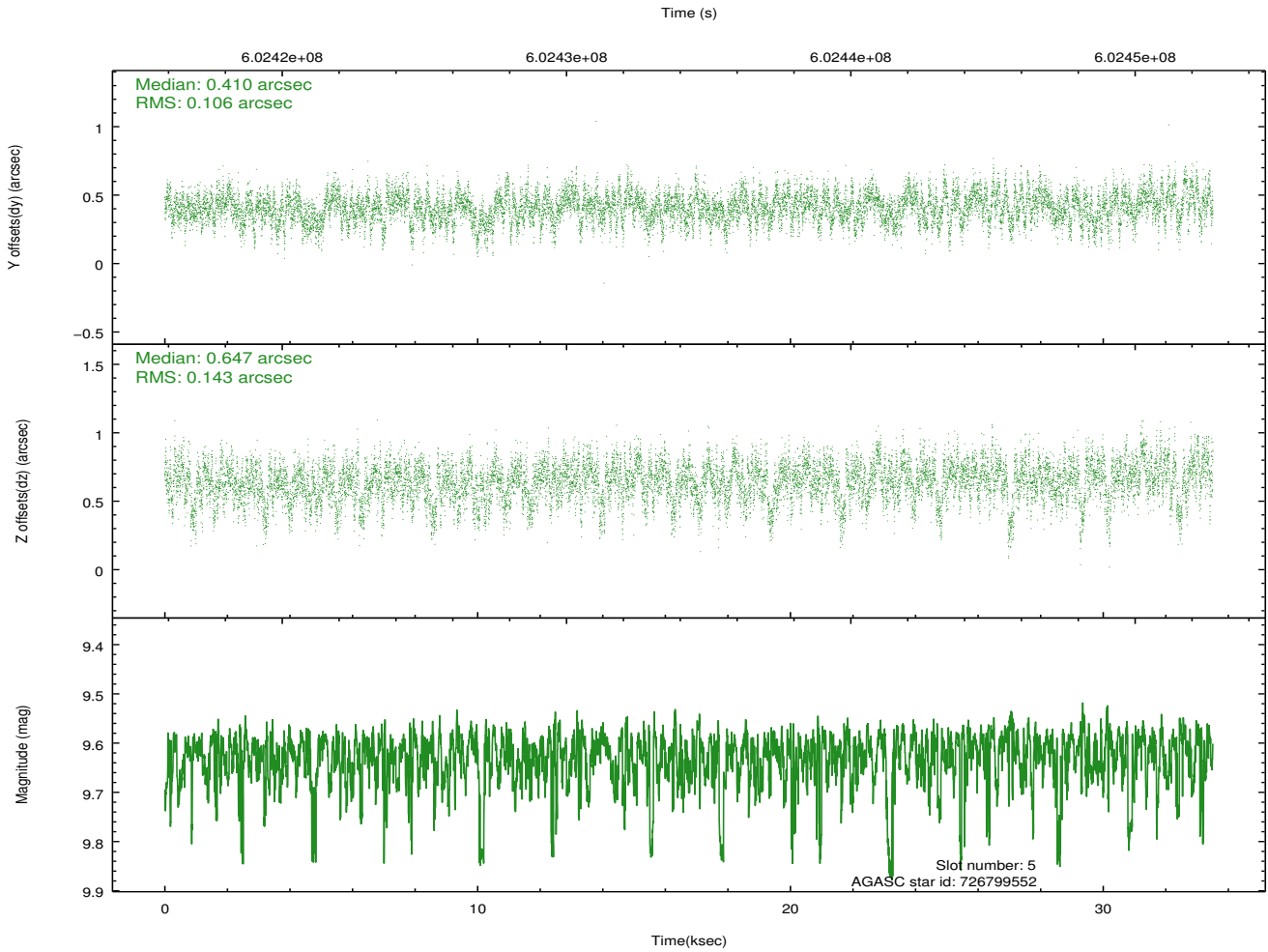
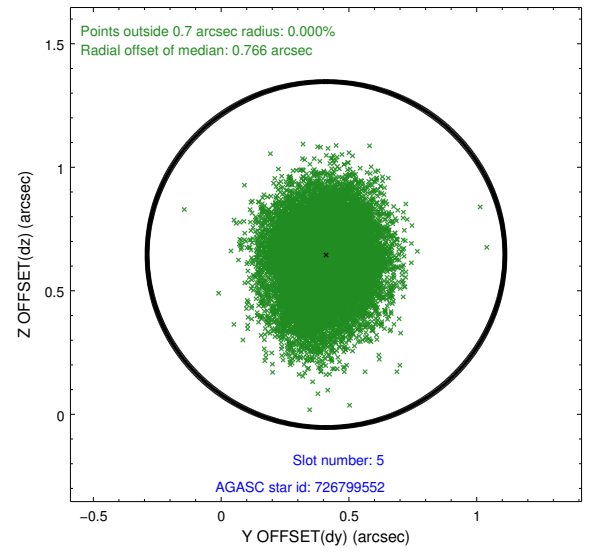
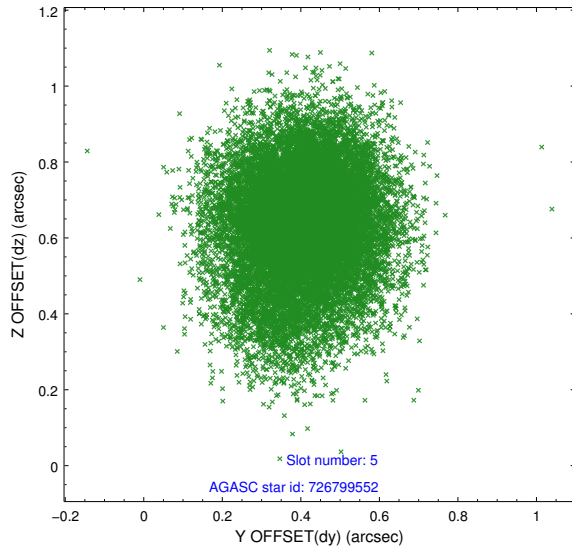
2.4.1 Slot 3



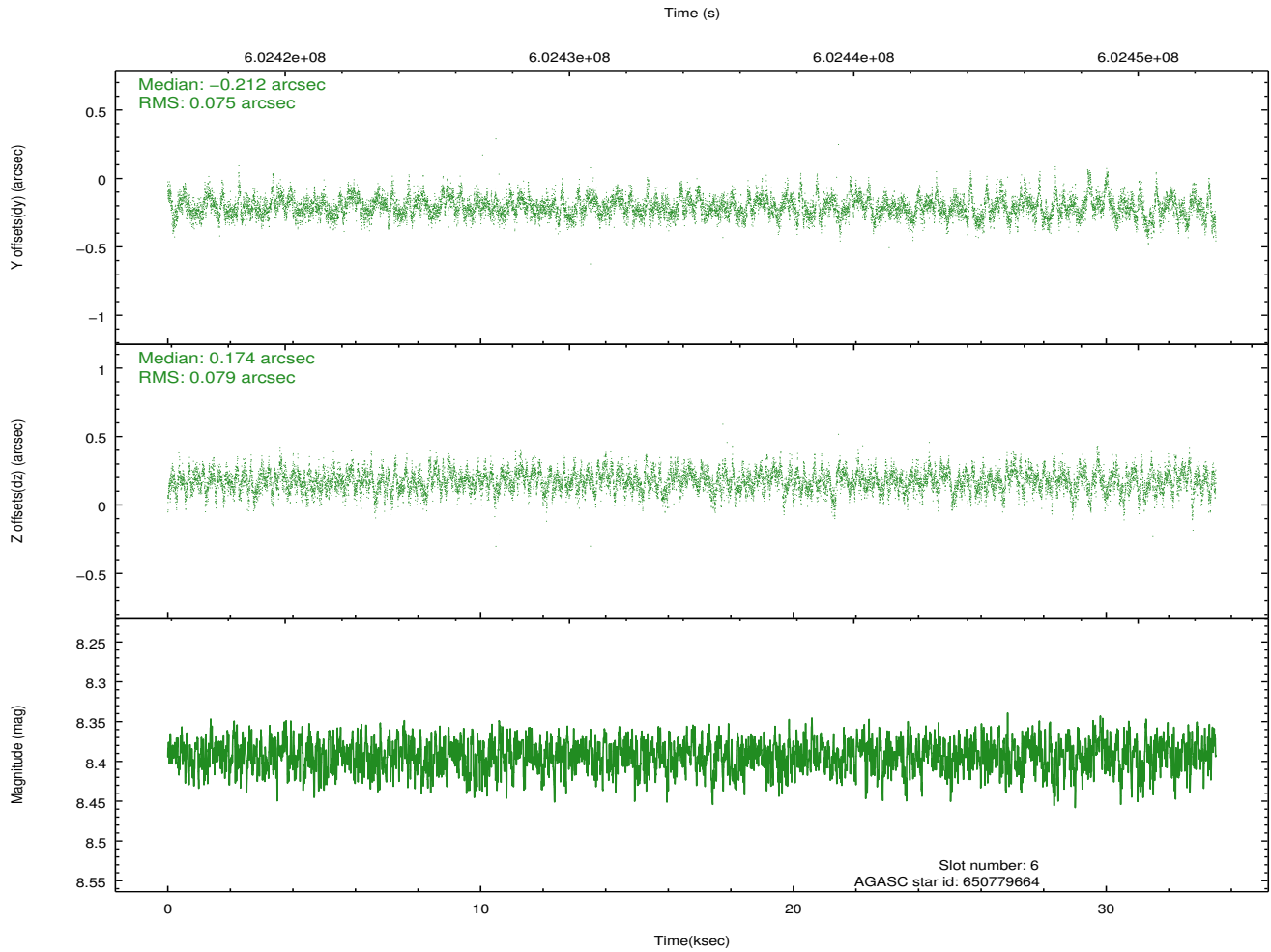
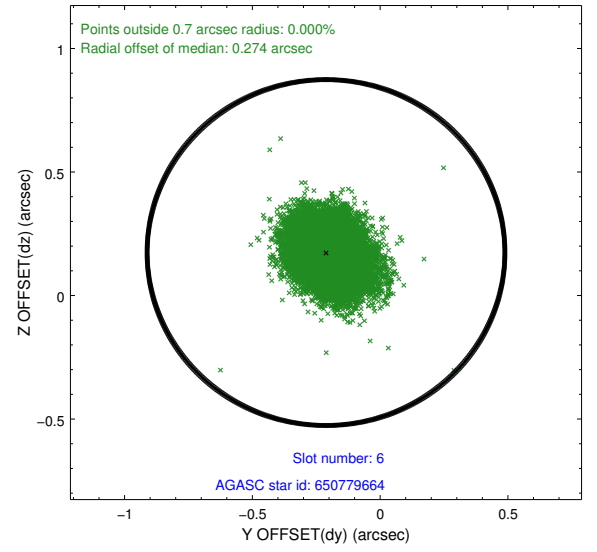
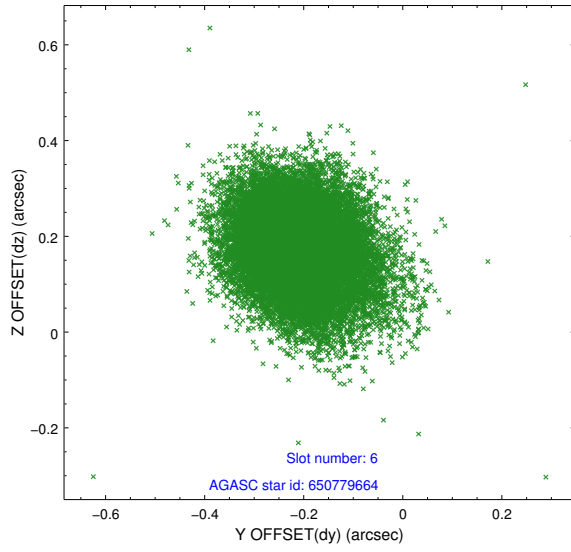
2.4.2 Slot 4



2.4.3 Slot 5

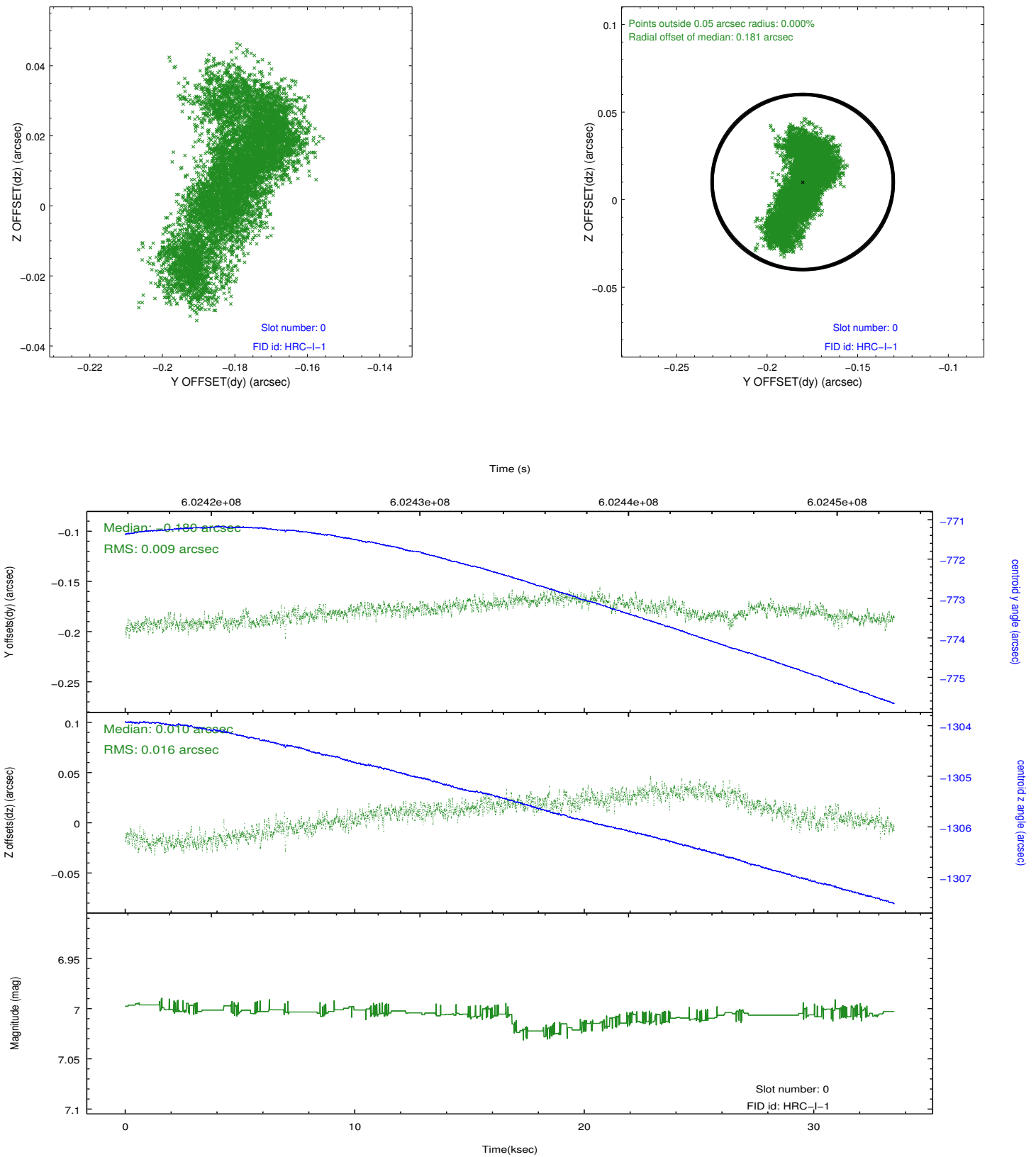


2.4.4 Slot 6

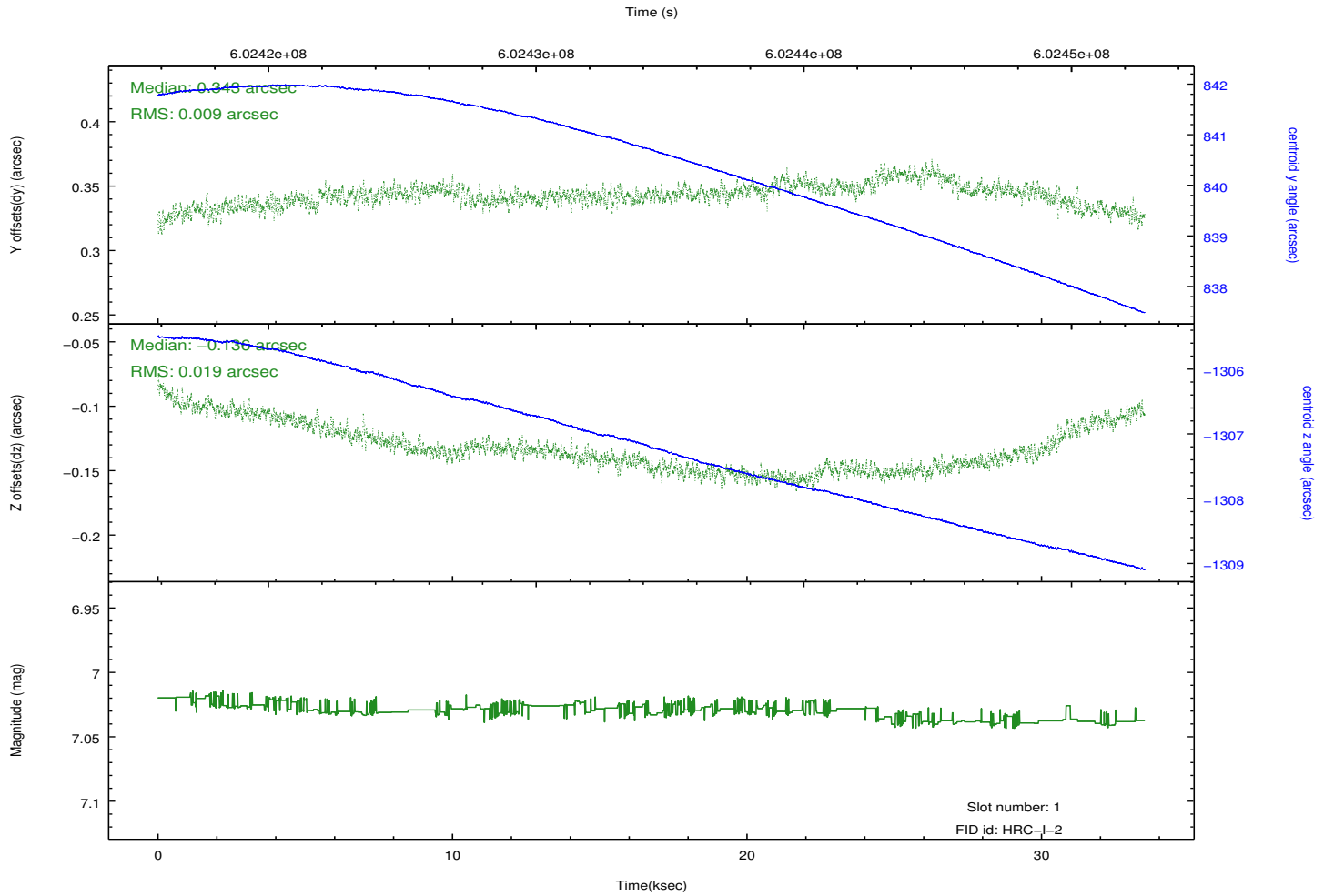
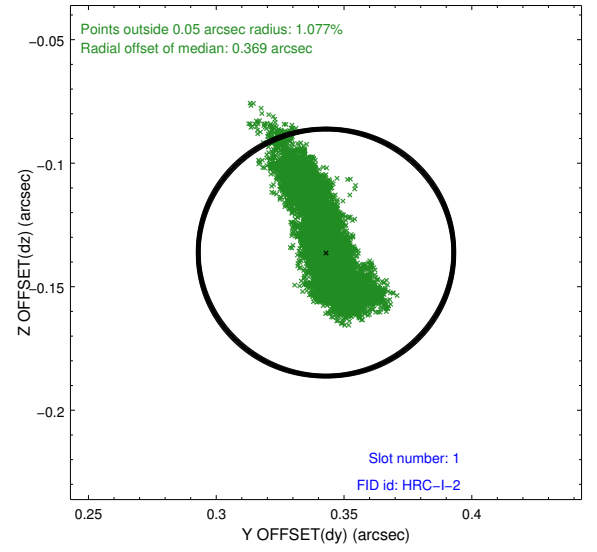
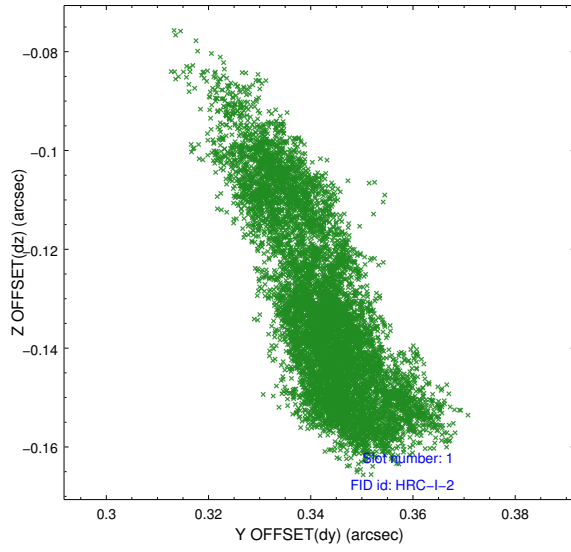


2.5 FID Slots

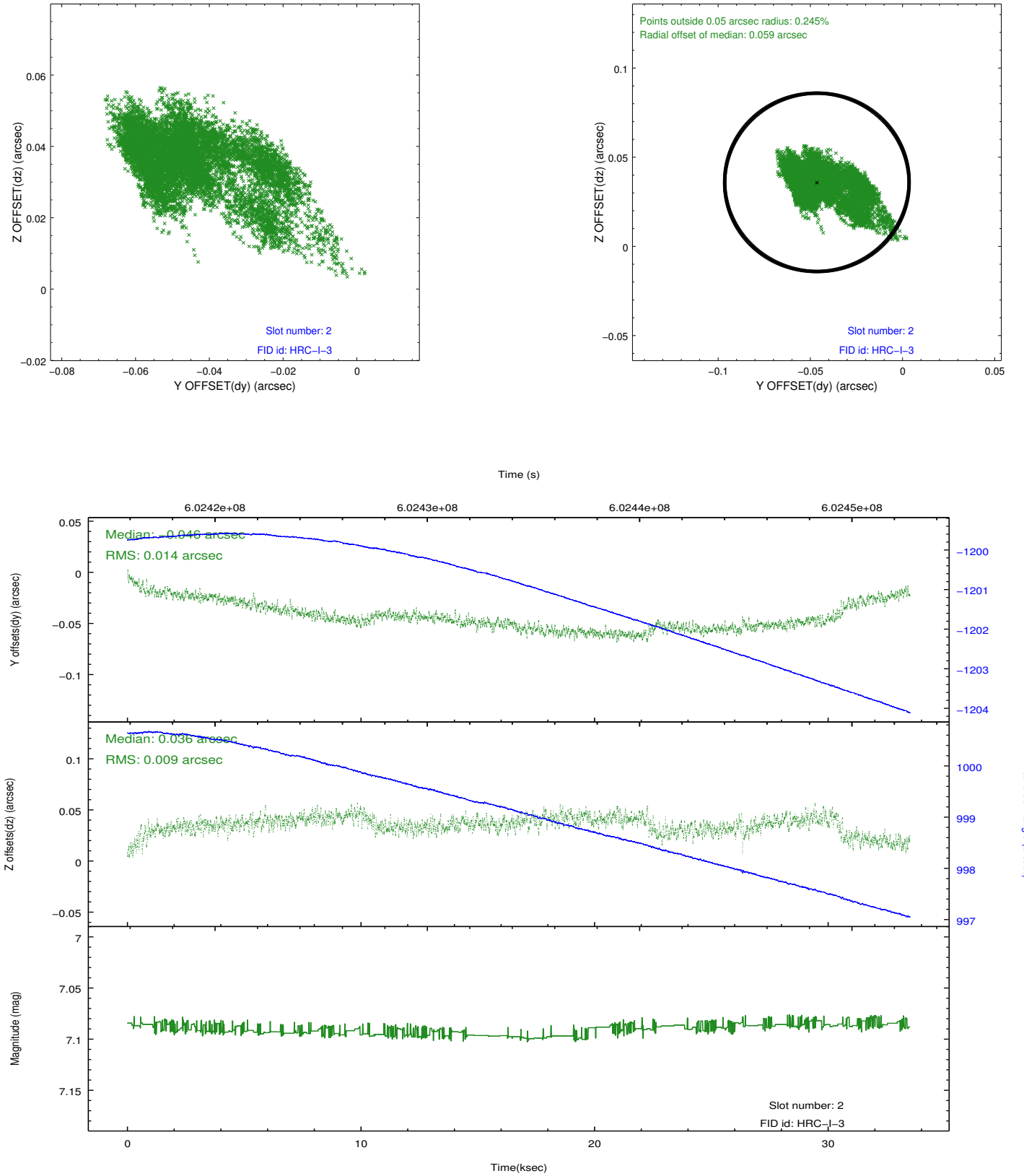
2.5.1 Slot 0



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)	2017.02.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.505970691442

A.2 Comments

Observation coordinated with Juno.

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.

This is an observation of a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.