

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20846 - L2 Version 1
Chandra X-Ray Center

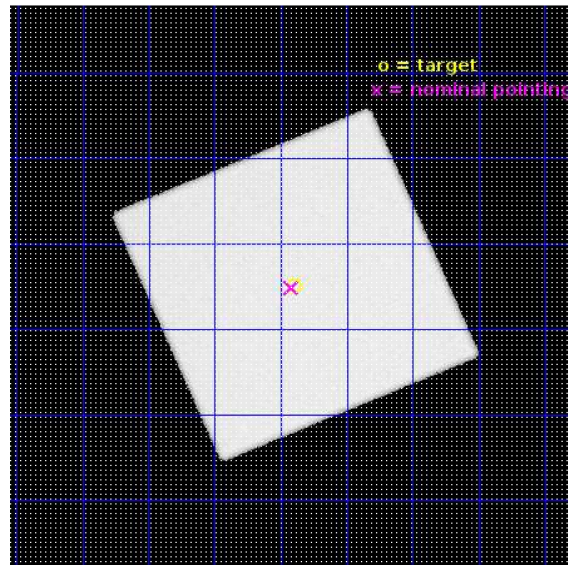
L2 Processing Date : Nov 12 2017

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

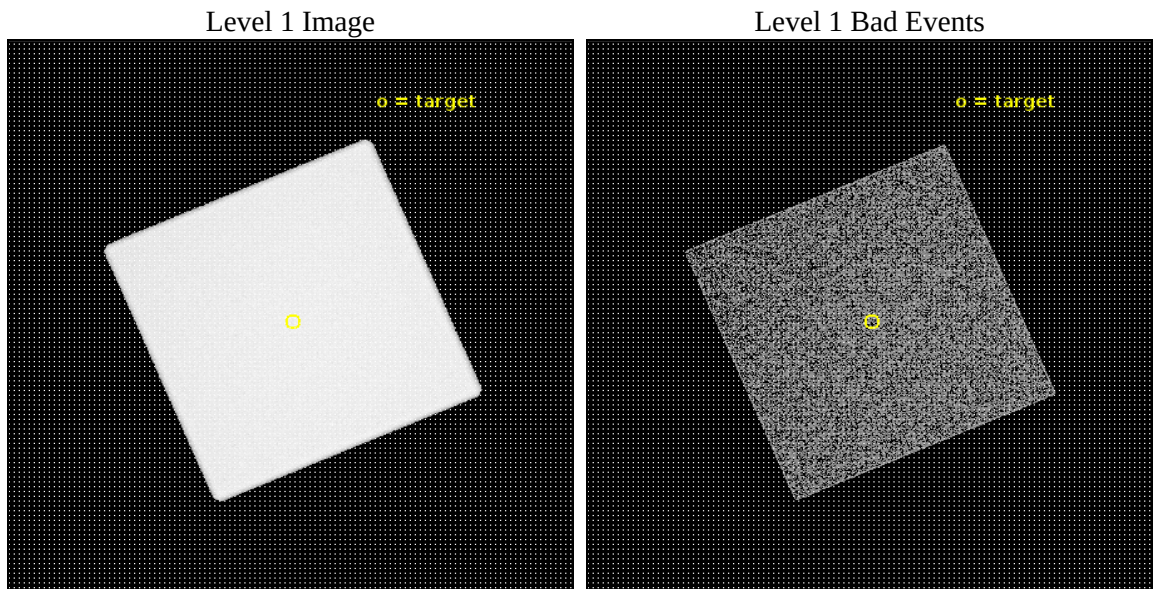
seq_num	100171	Sequence number
obs_id	20846	Observation id
title	Uranus During an Interplanetary Coronal Mass Ejection	Proposal tit
observer	William Dunn	Principal investigator
object	Uranus	Source name
ra_targ	23.723498	Observer's specified target RA [deg]
dec_targ	9.252058	Observer's specified target Dec [deg]
ra_nom	23.729560975677	Nominal RA [deg]
dec_nom	9.2478553580079	Nominal Dec [deg]
roll_nom	291.90352154042	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25144.532724738	[s]
livetime	24838.87939124	Ontime multiplied by DTCOR
l2events	2612809	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	25144.532724738	[s]
caldbver	4.7.6	 	l1events	3716955	Number of level 1 events
date	2017-11-12T13:56:27	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

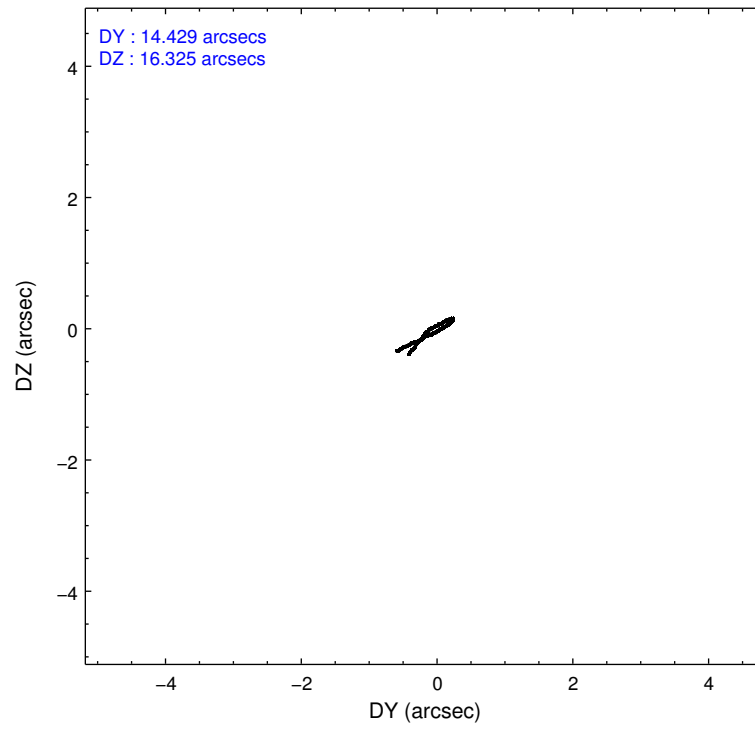
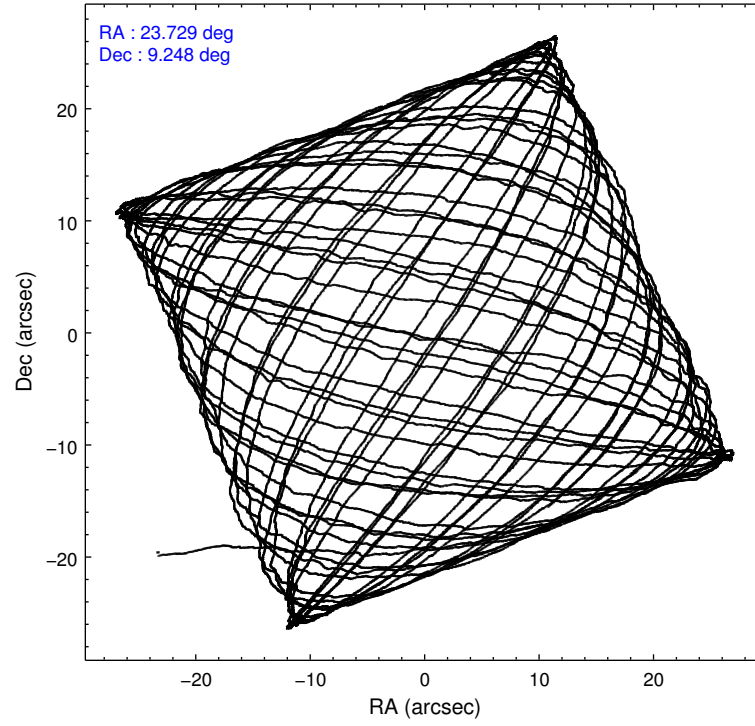
Level 1 Events

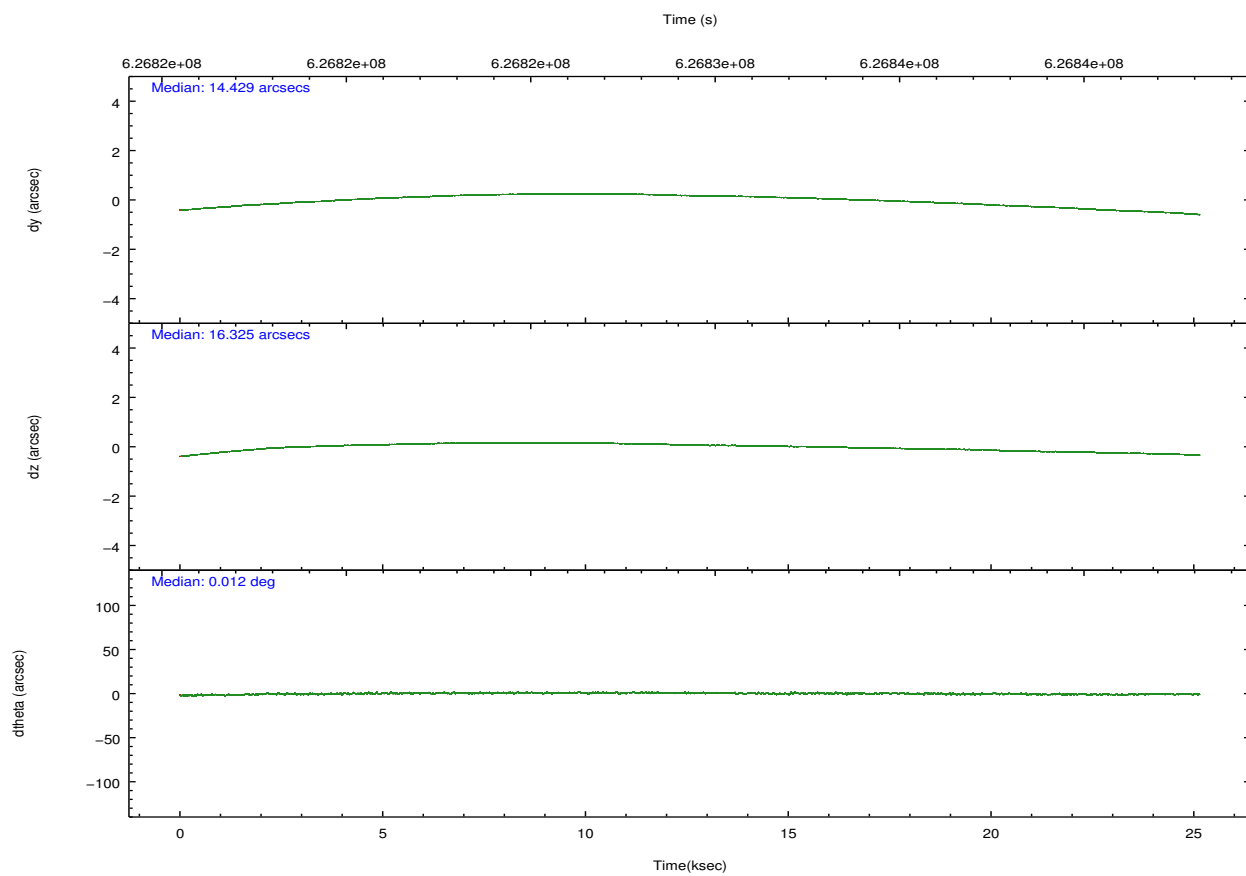
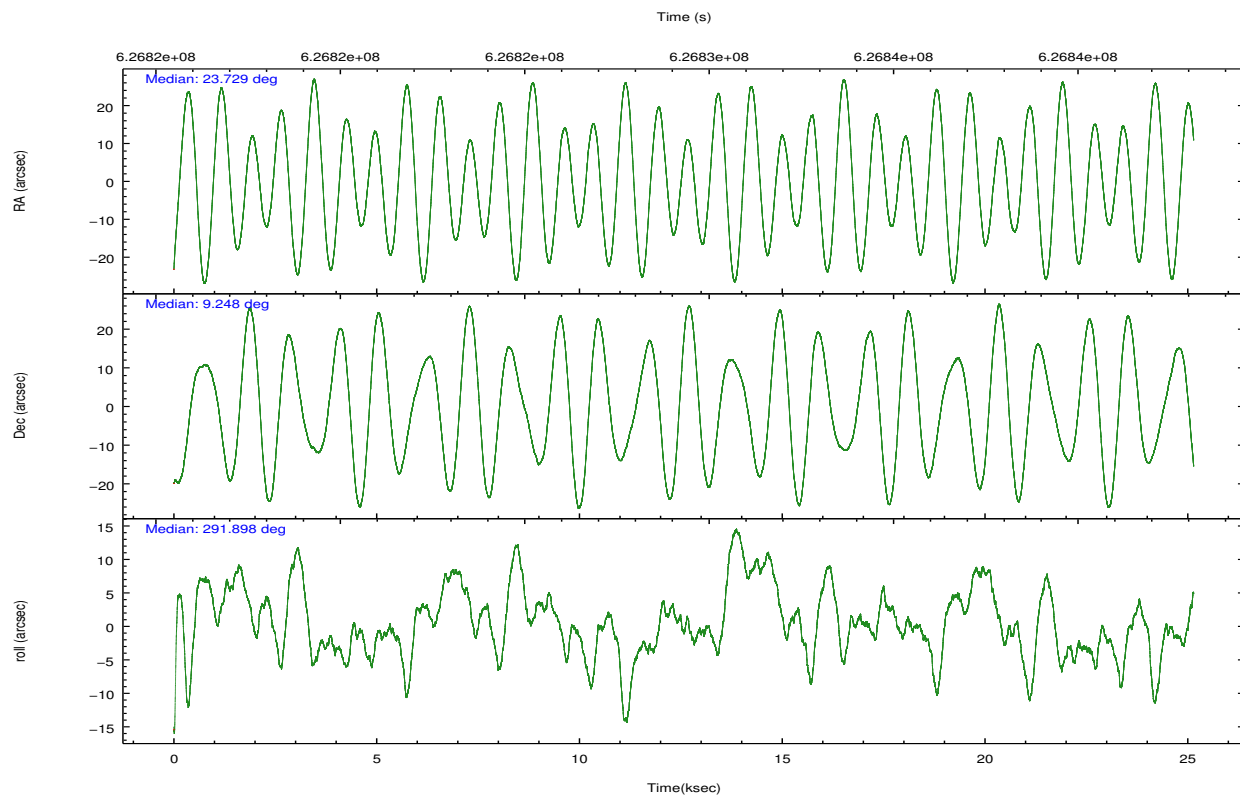
	segment 0
level 1 events	3716955
rejected events	259009
rejected %	6%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	23.707368	23.72956097567692			
[deg] Pointing Dec	9.264225	9.247855358007948			
[deg] Pointing Roll	292.002594	291.9035215404193			
[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)	626816896.184000	626815759.62236			
Observation start date	2017-11-11T19:47:07	2017-11-11T19:29:19			
[s] Observation end time (MET)	626841896.184000	626842789.89895			
Observation end date	2017-11-12T02:43:47	2017-11-12T02:59:49			

2.3 Aspect



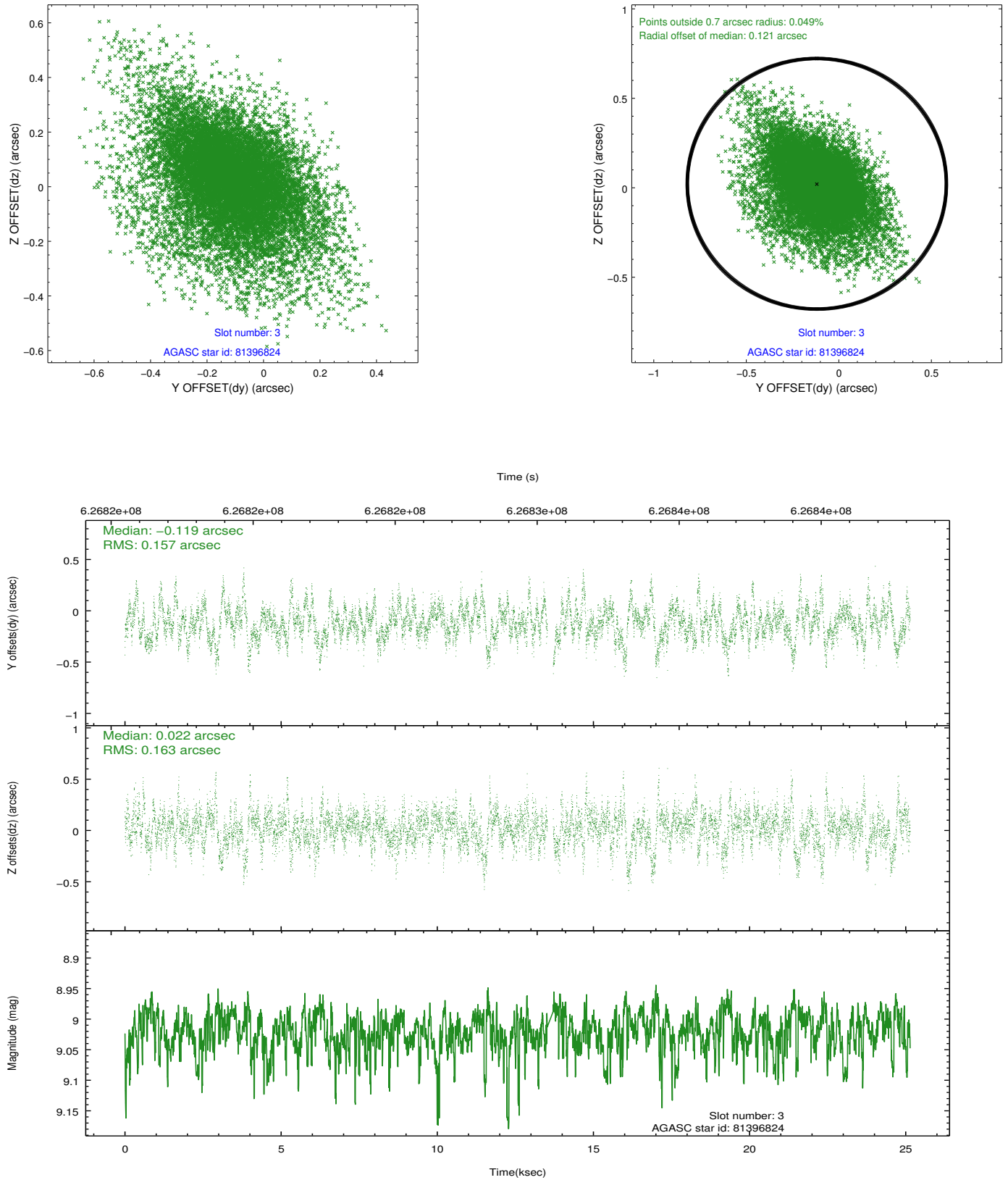


Slot Statistics

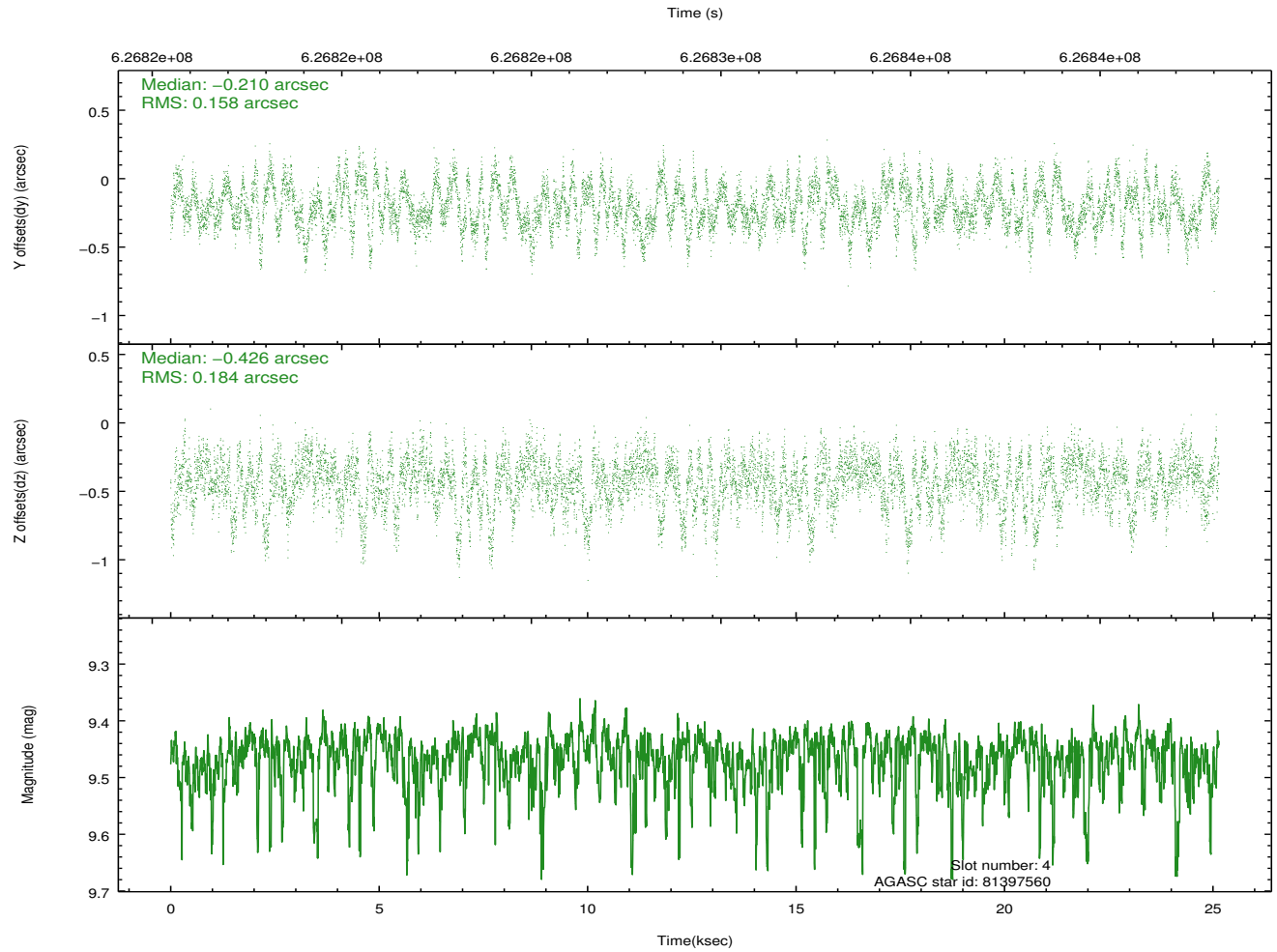
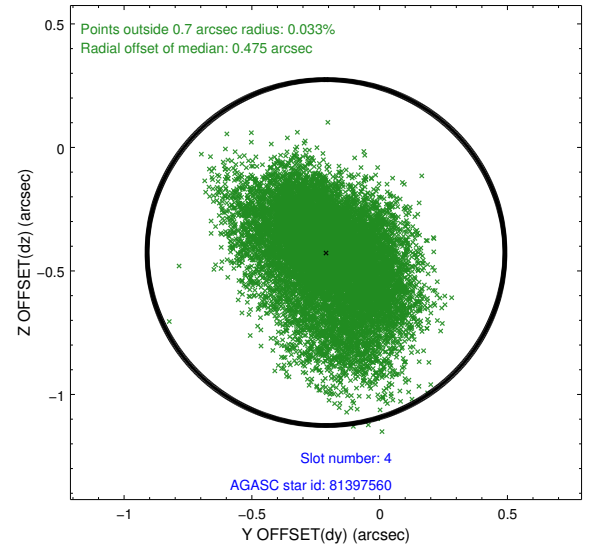
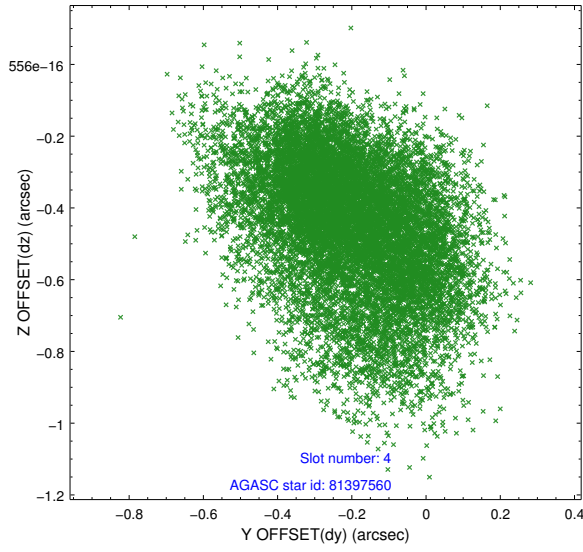
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	7.02	6134	-0.087	-0.086	0.011	0.017	0.000000	0.000000	-770.33	-1304.45
1	FID		HRC-I-3	7.09	6134	-0.161	-0.097	0.012	0.019	0.000000	0.000000	-1198.89	999.92
2	FID		HRC-I-4	7.02	6134	0.361	0.095	0.011	0.023	0.000000	0.000000	1272.84	997.95
3	GUIDE	used	81396824	9.02	12159	-0.119	0.022	0.229	0.416	23.816147	9.920290	-2044.77	1241.64
4	GUIDE	used	81397560	9.46	12249	-0.210	-0.426	0.258	0.424	24.004098	8.965422	1392.18	575.58
5	GUIDE	used	81398656	8.27	12260	0.279	0.689	0.150	0.250	23.482471	8.993627	604.21	-1105.22
6	GUIDE	used	81398720	9.32	12253	0.227	0.187	0.213	0.349	23.042891	9.237057	-794.45	-2224.20
7	GUIDE	used	81401848	9.50	12247	-0.177	-0.445	0.209	0.341	24.221068	8.860999	2029.81	1150.10

2.4 Star Slots

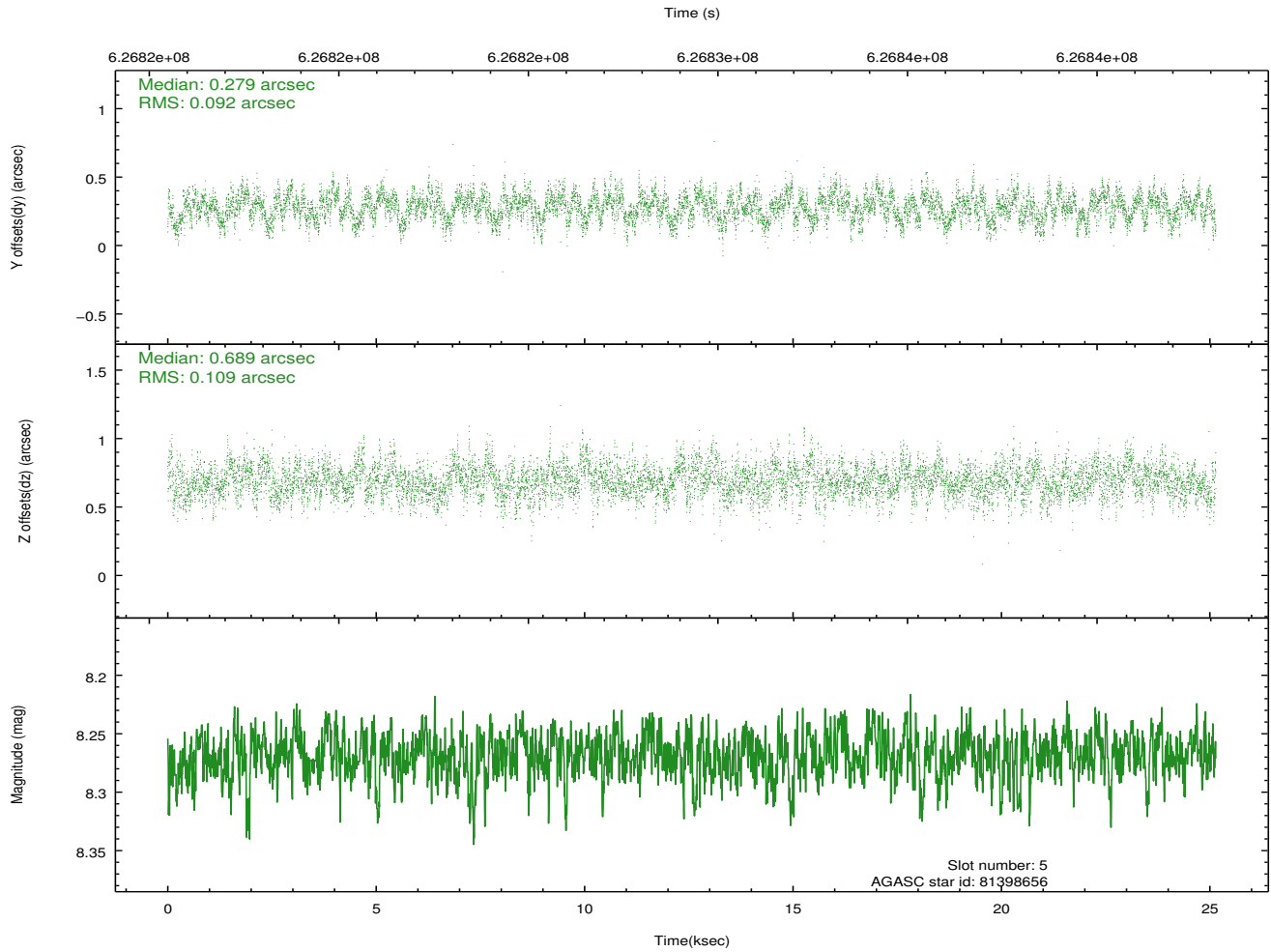
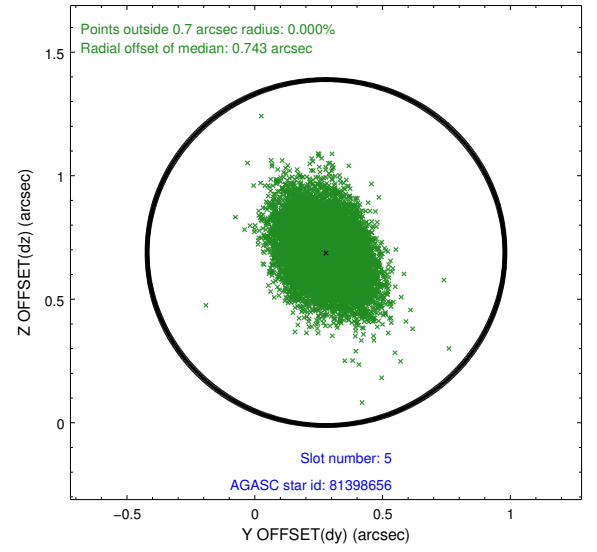
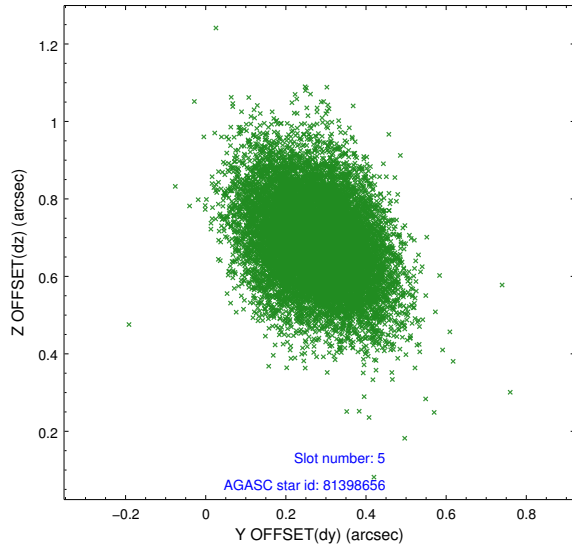
2.4.1 Slot 3



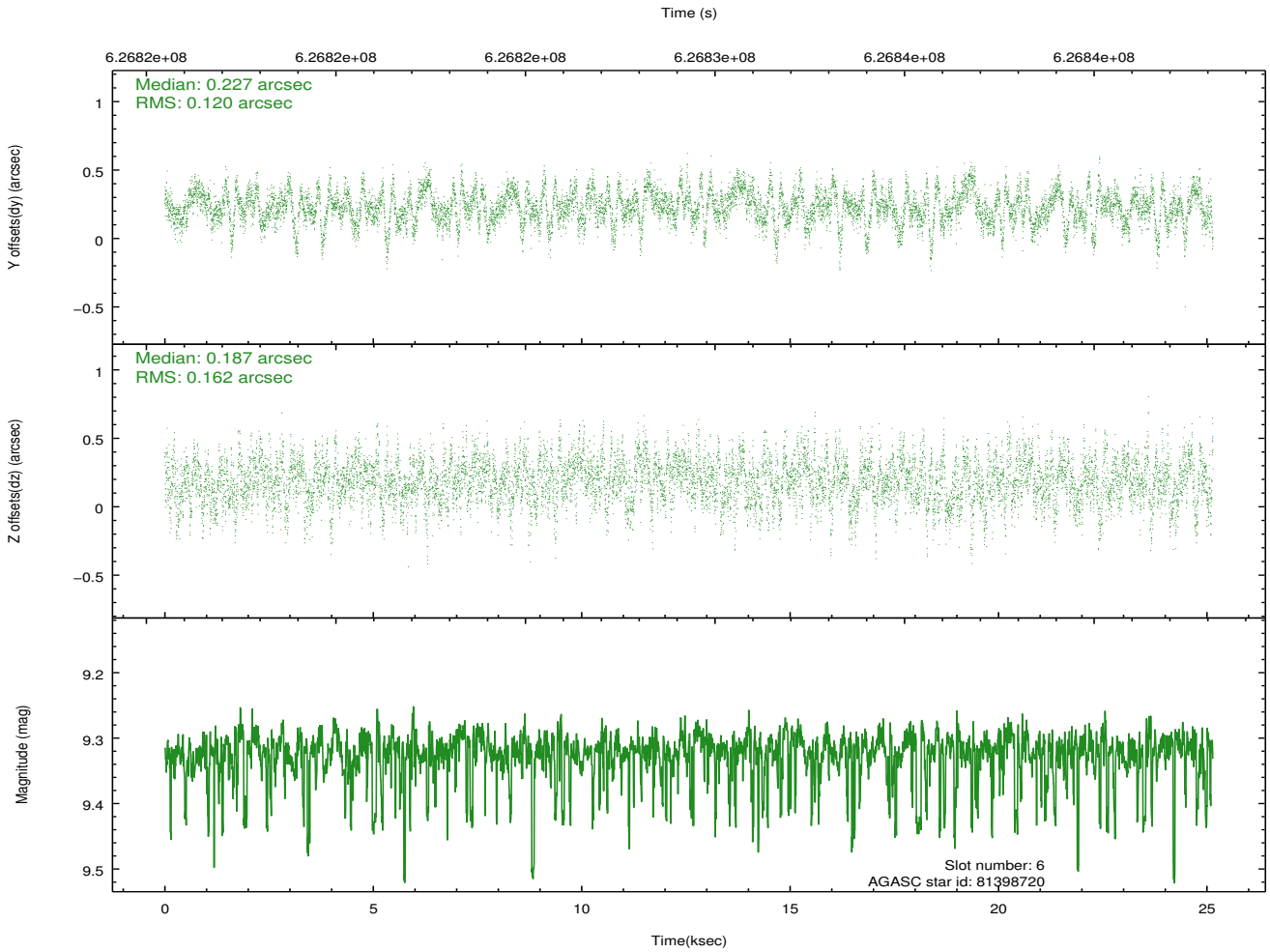
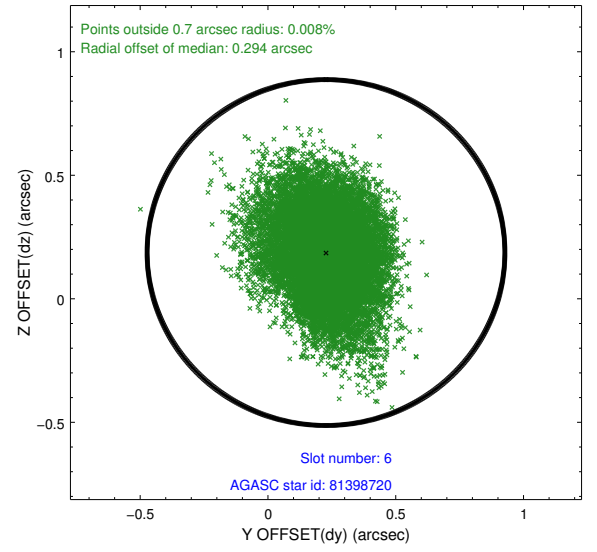
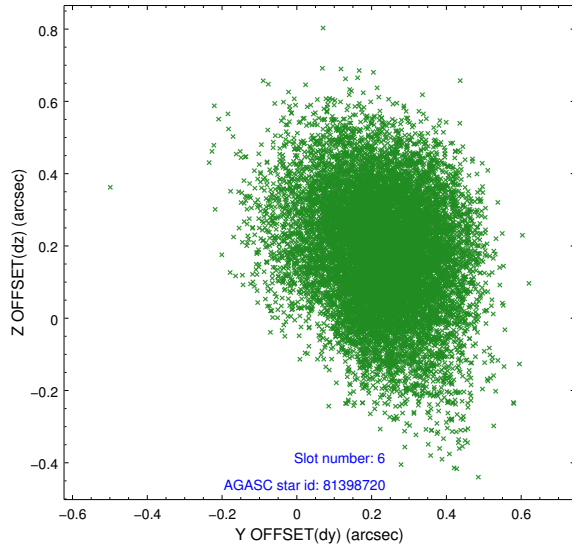
2.4.2 Slot 4



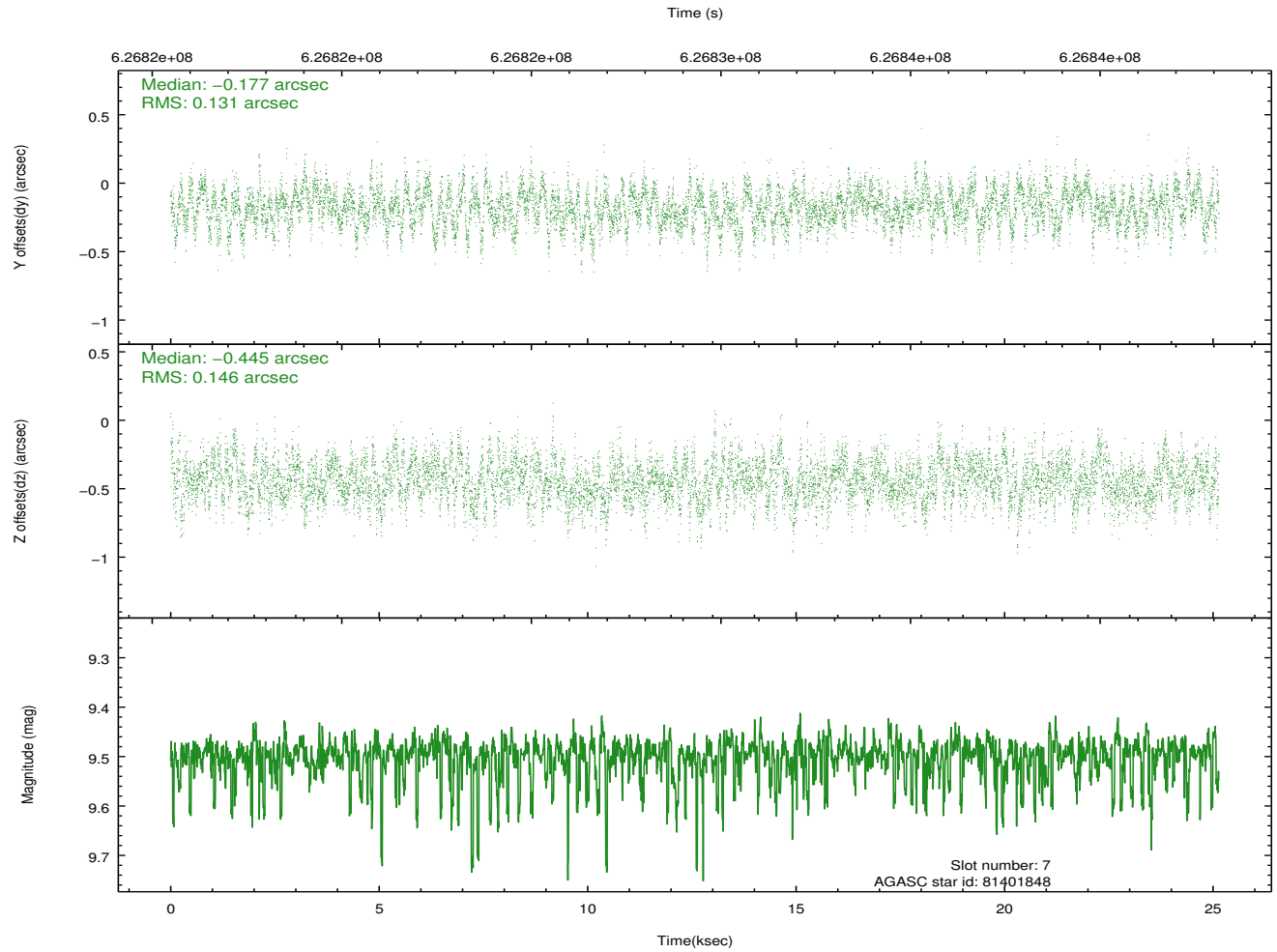
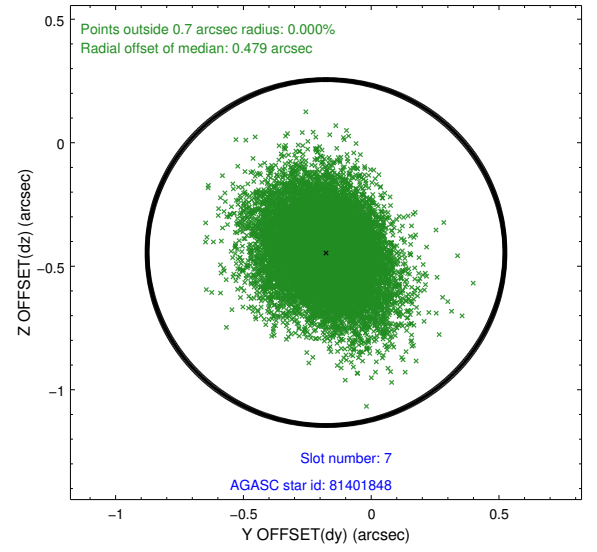
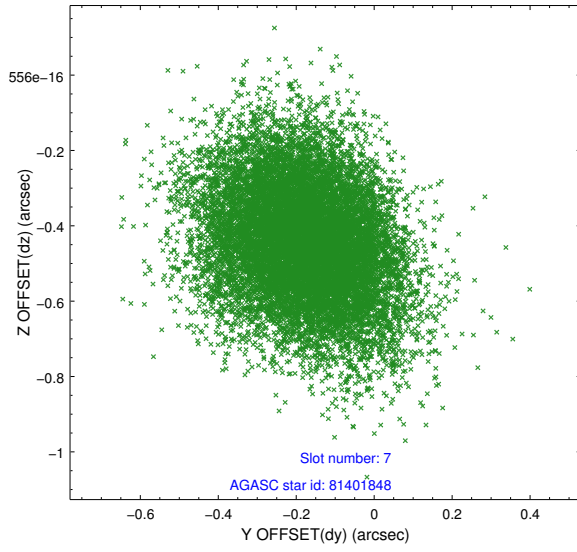
2.4.3 Slot 5



2.4.4 Slot 6

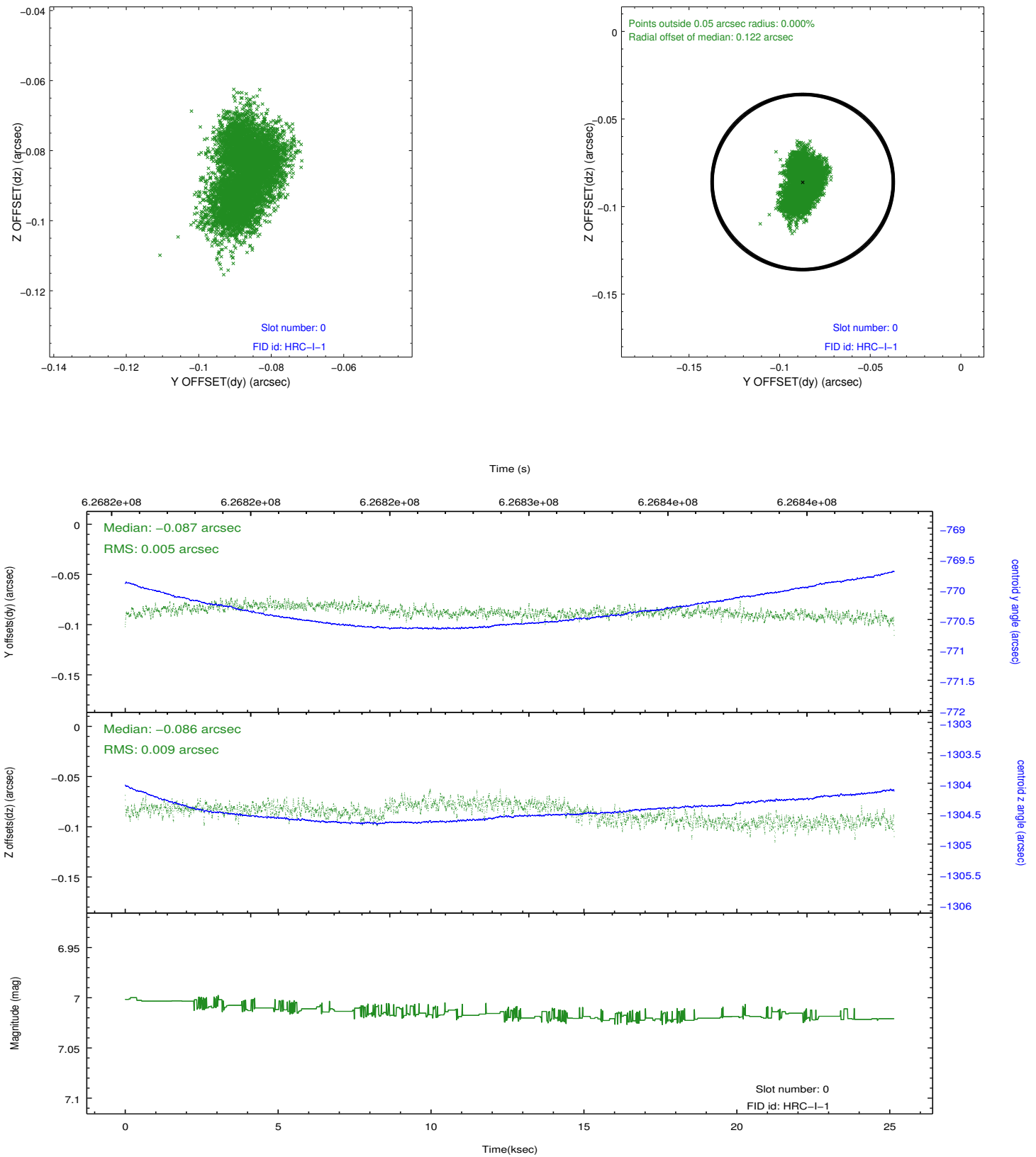


2.4.5 Slot 7

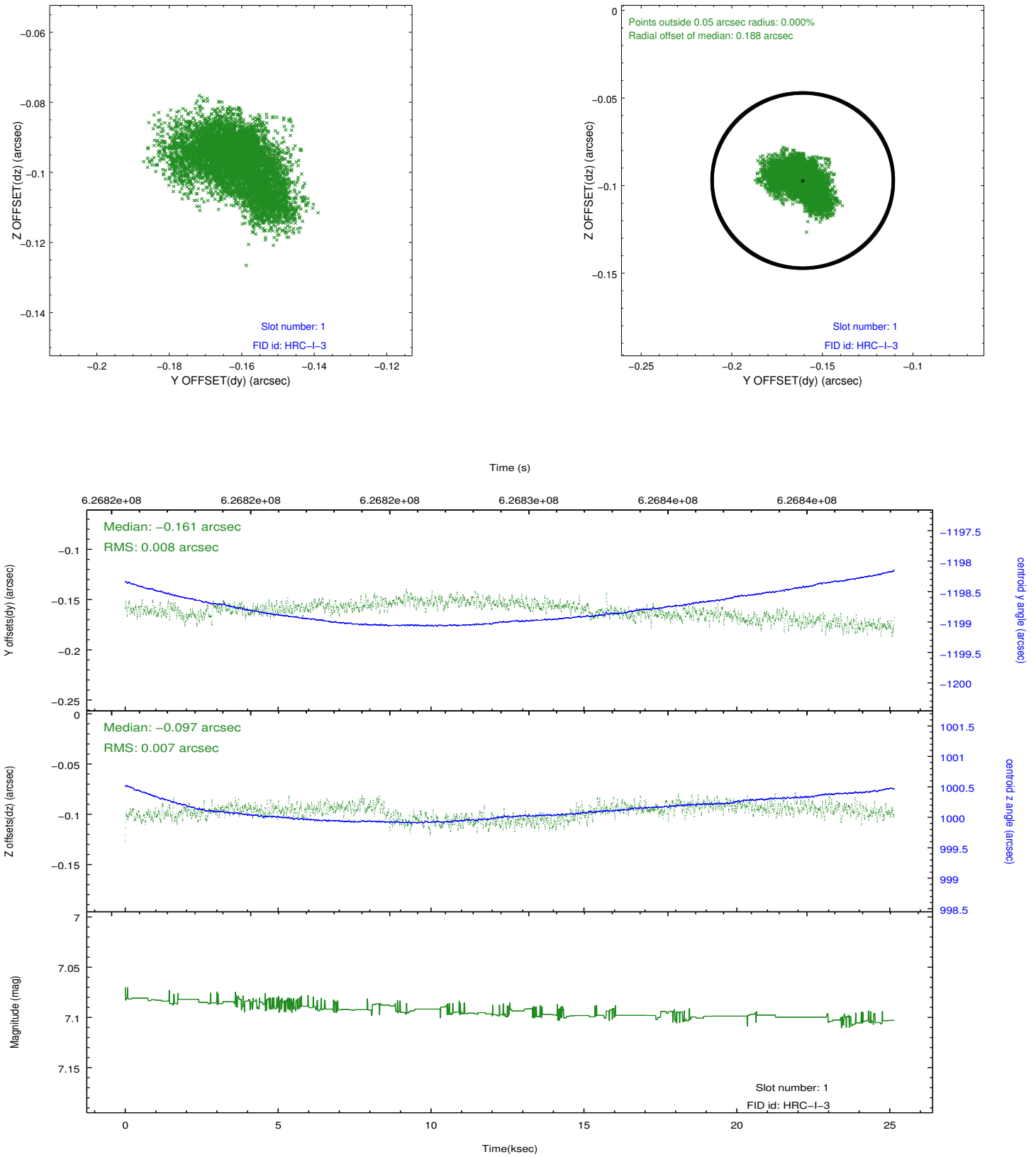


2.5 FID Slots

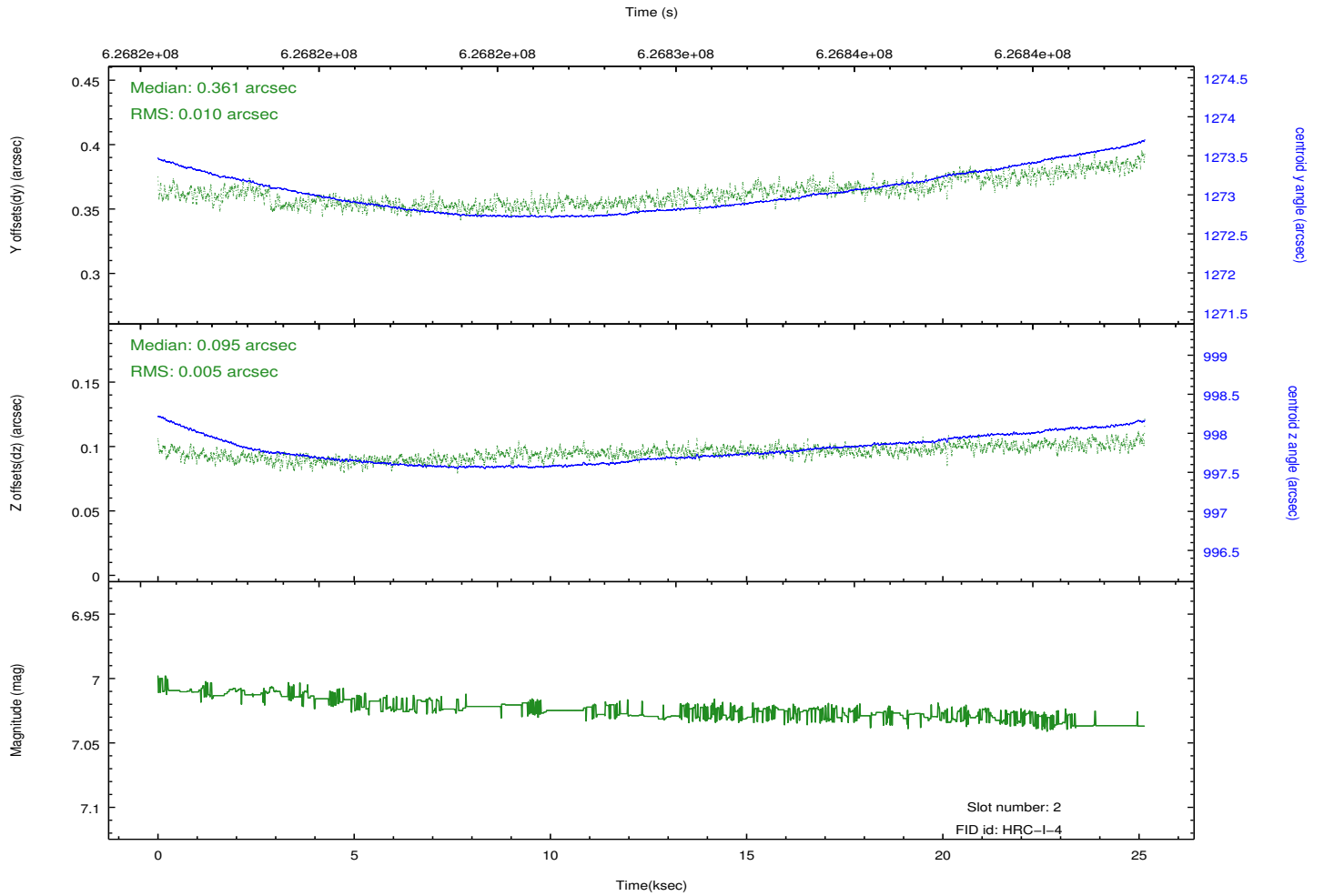
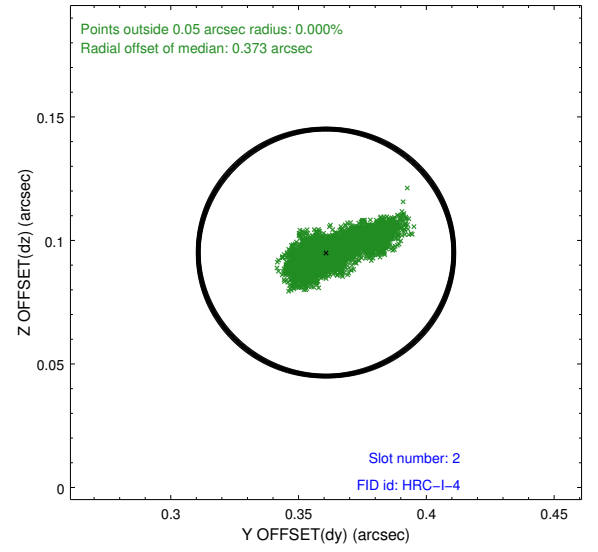
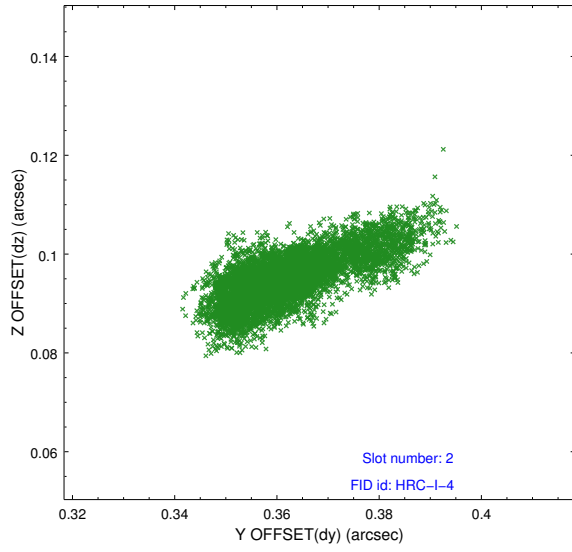
2.5.1 Slot 0



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)	2017.11.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.144532724738

A.2 Comments

Observation coordinated with Hubble, VLT/NACO and Gemini/NIRI.

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.