

V&V Reference Report

L2 ASCDS Version : 10.8

Observation 22148 - L2 Version 1
Chandra X-Ray Center

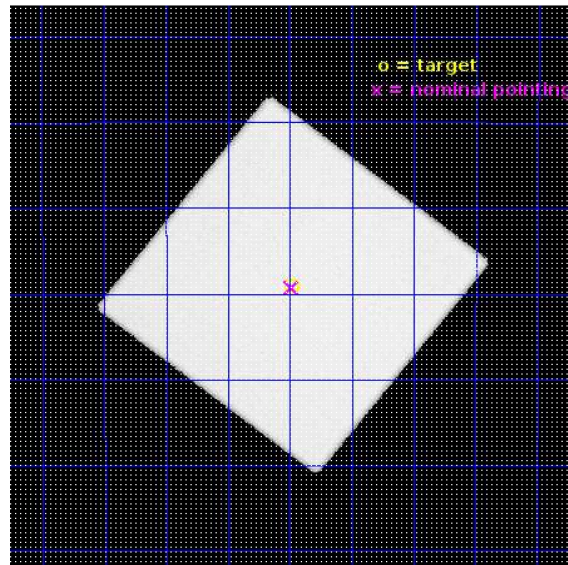
L2 Processing Date : Jul 16 2019

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1 Front

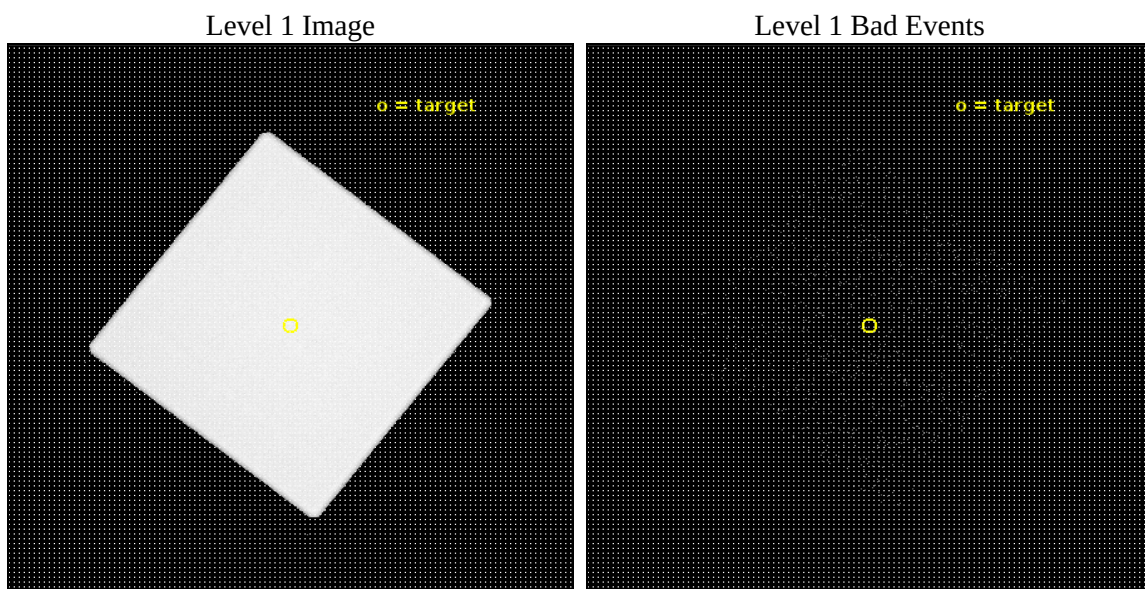
seq_num	100178	Sequence number
obs_id	22148	Observation id
title	Is X-ray Aurora Produced by Magnetic Unloading?	Proposal title
observer	William Dunn	Principal investigator
object	Jupiter	Source name
ra_targ	254.119738	Observer's specified target RA [deg]
dec_targ	-22.151858	Observer's specified target Dec [deg]
ra_nom	254.12210021832	Nominal RA [deg]
dec_nom	-22.154843780331	Nominal Dec [deg]
roll_nom	263.06475352673	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25138.382760167	[s]
livetime	24729.806137723	Ontime multiplied by DTCOR
l2events	2944138	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	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.8	Processing system revision	ontime	25138.382760167	[s]
caldbver	4.8.3.1	 	l1events	4029075	Number of level 1 events
date	2019-07-16T03:28:57	Date and time of file creation			
revision	1	Processing version of data			

2.1.3 Events

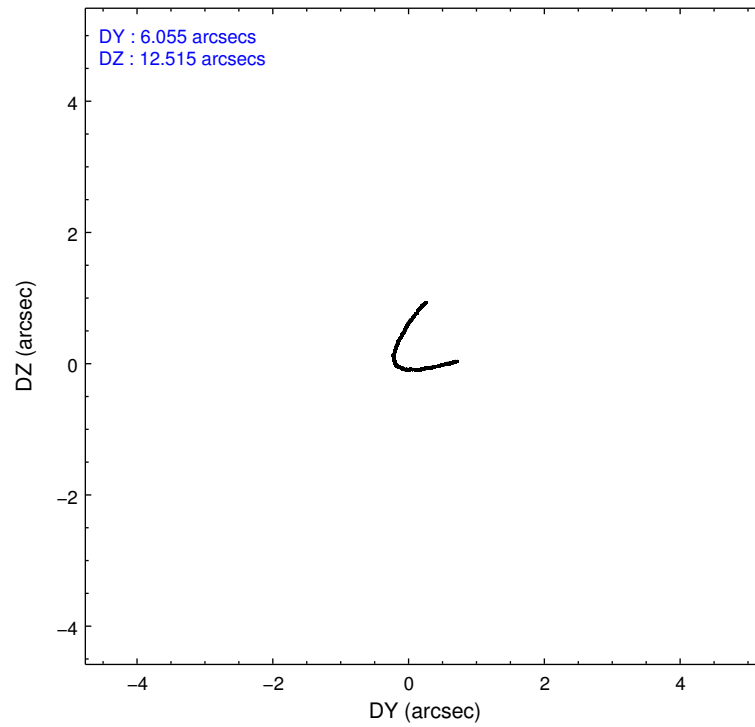
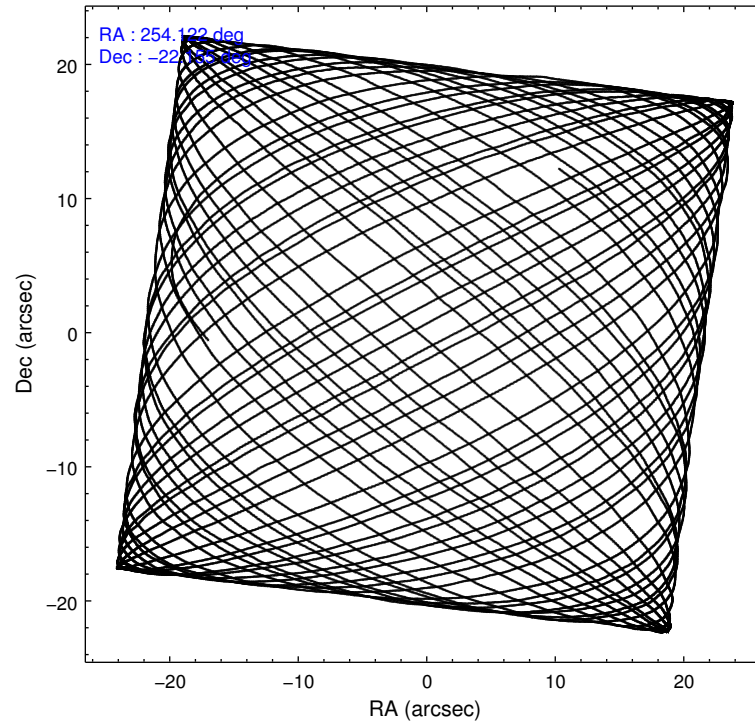
Level 1 Events

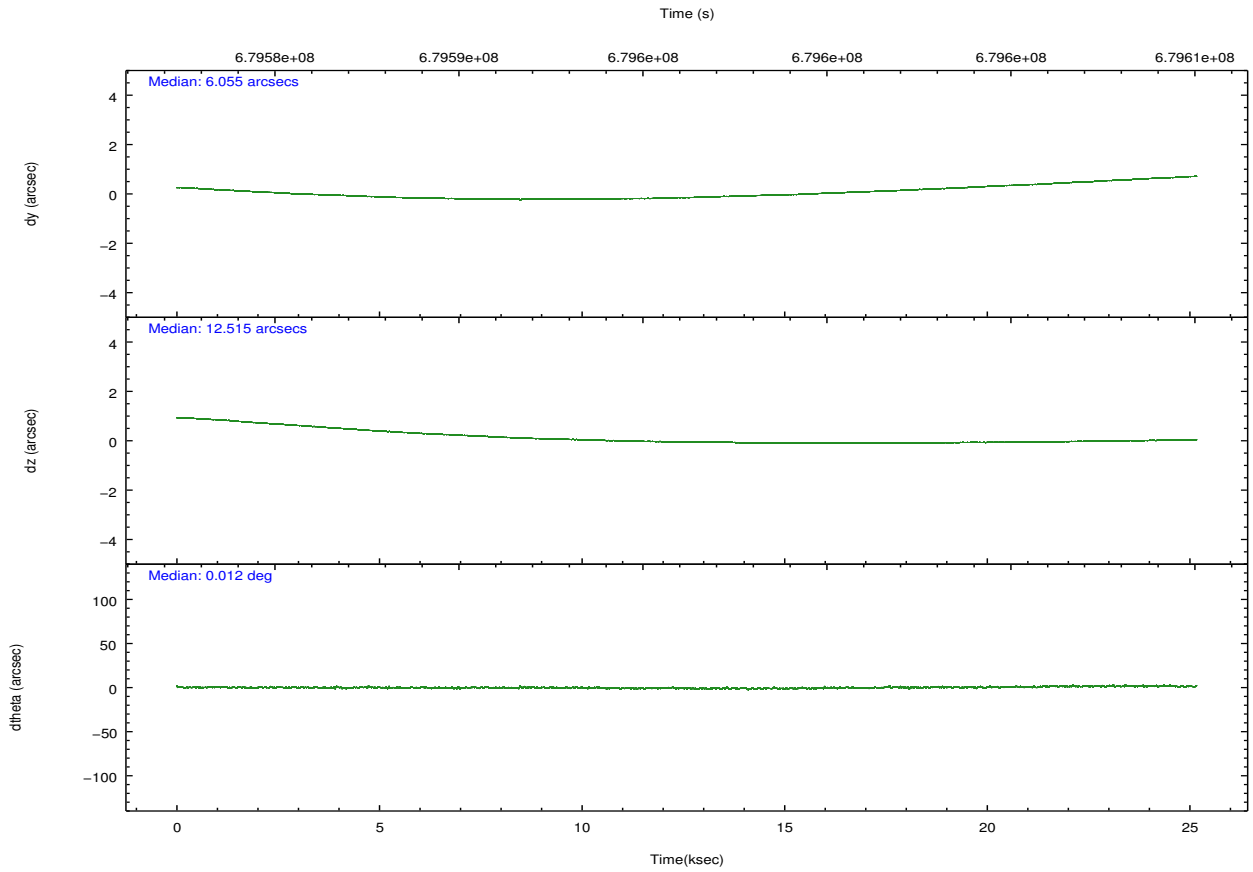
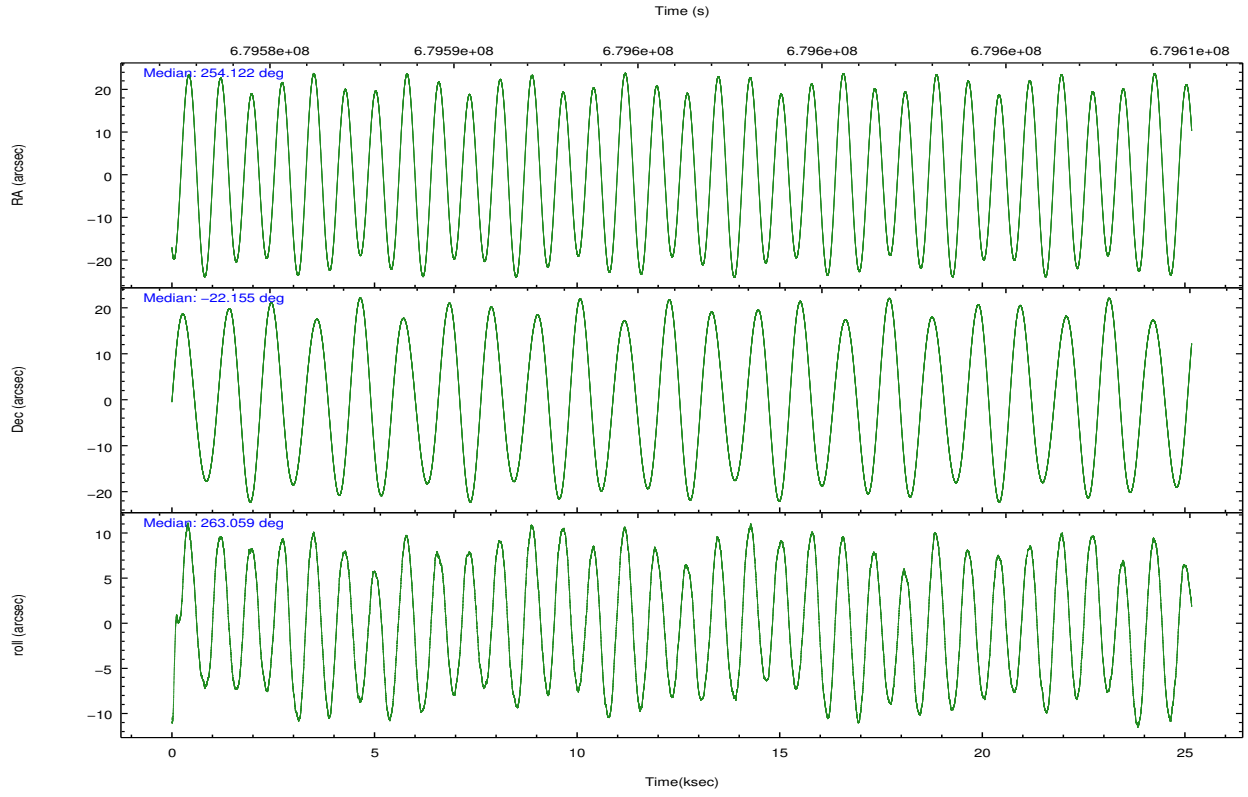
	segment 0
level 1 events	4029075
rejected events	139351
rejected %	3%

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	254.109921	254.1221002183167			
[deg] Pointing Dec	-22.129974	-22.15484378033051			
[deg] Pointing Roll	263.155652	263.0647535267344			
[s] Window start time (MET)	679583469.184000	679583469.184000			
[s] Window stop time (MET)	679608969.184000	679608969.184000			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9854943052878			
[mm] SIM translation stage offset	0	-5.413686238853188e-06			
[s] Observation start time (MET)	679583762.184000	679582805.37348			
Observation start date	2019-07-15T13:14:53	2019-07-15T13:00:05			
[s] Observation end time (MET)	679608762.184000	679609747.5001			
Observation end date	2019-07-15T20:11:33	2019-07-15T20:29:07			

2.3 Aspect



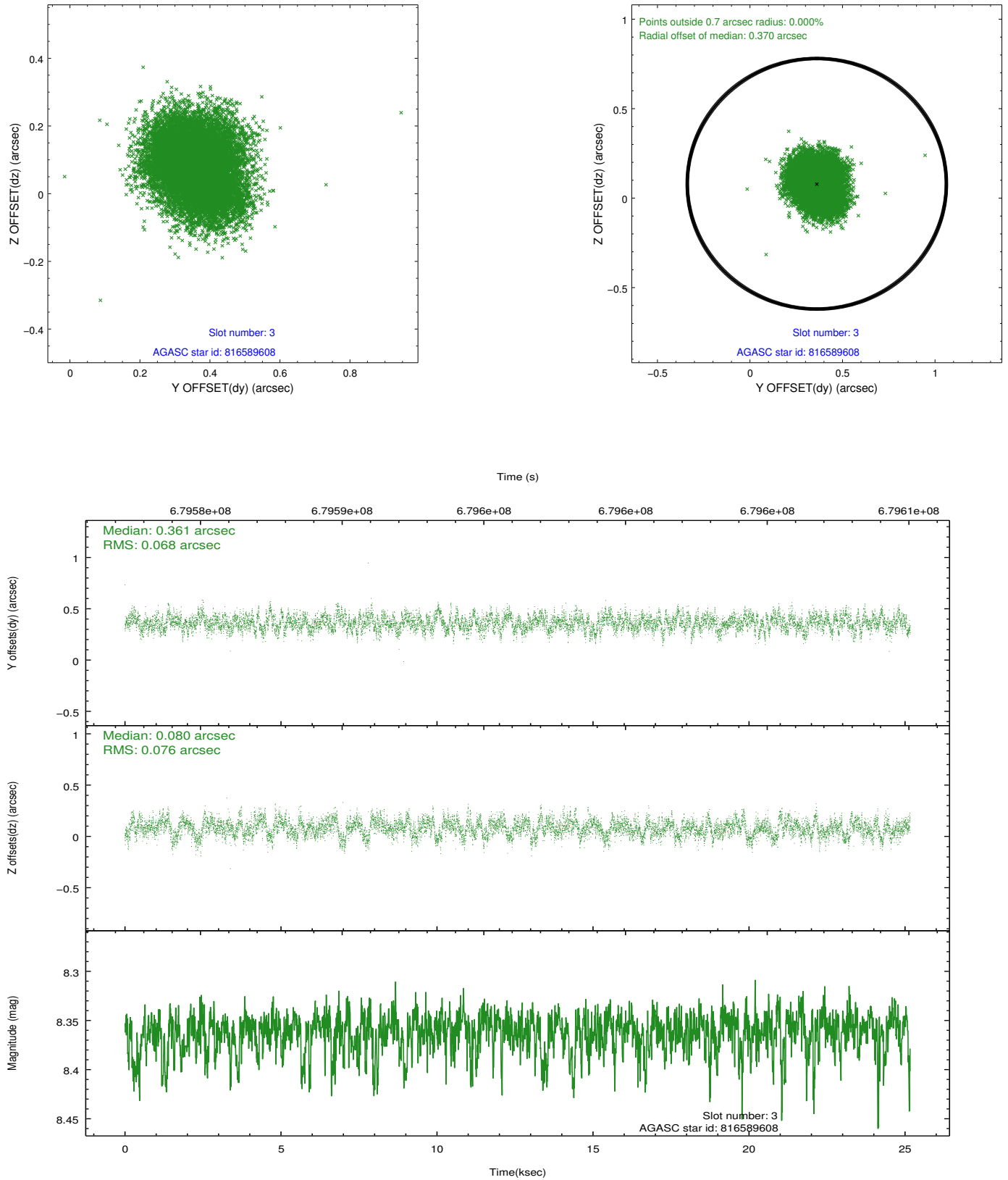


Slot Statistics

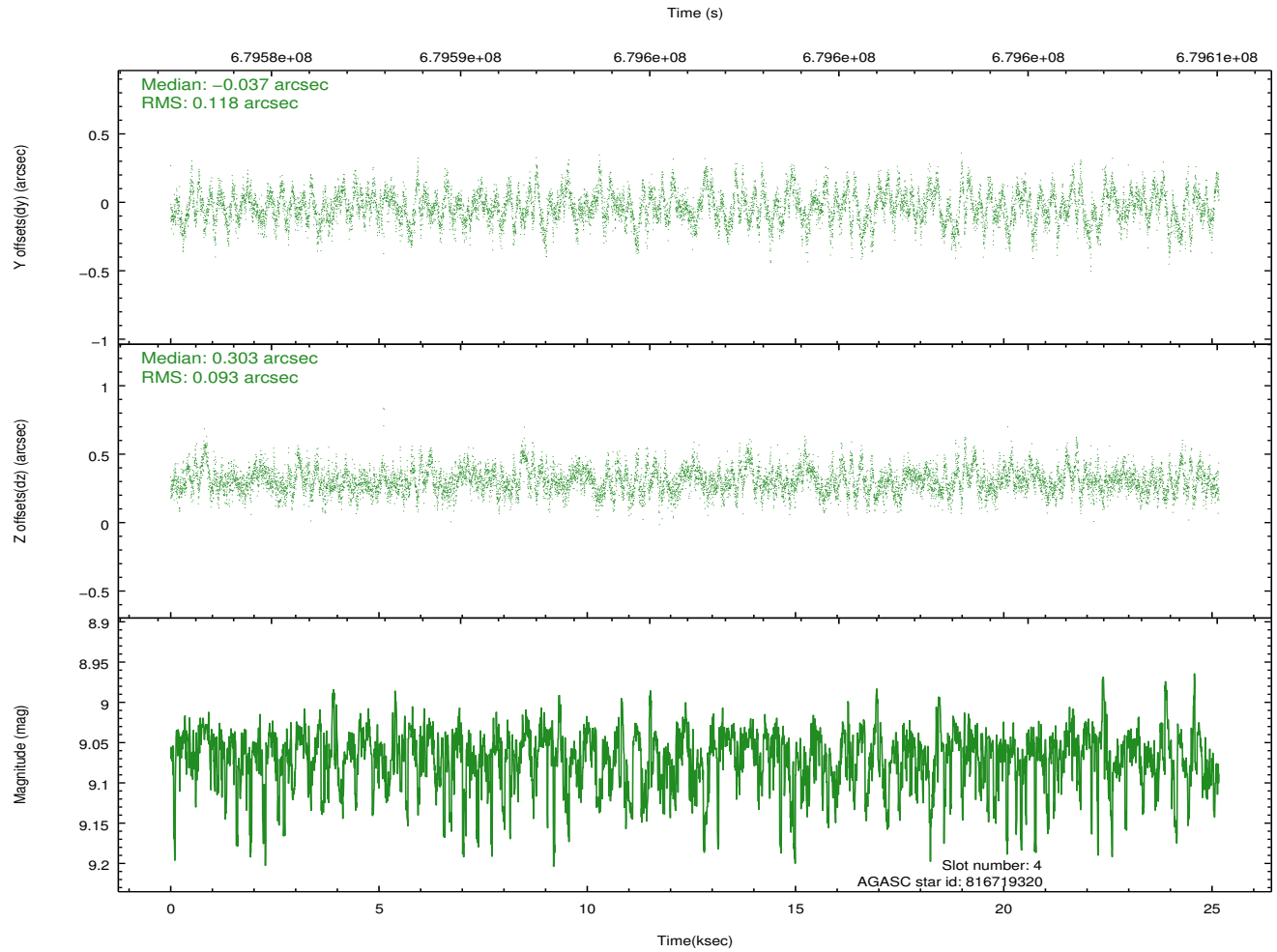
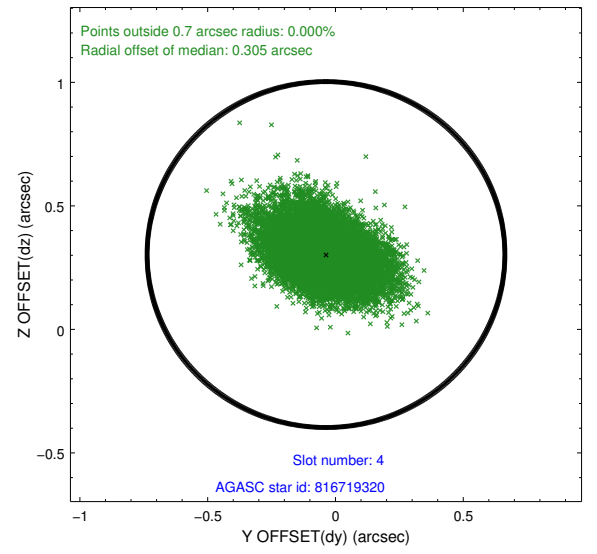
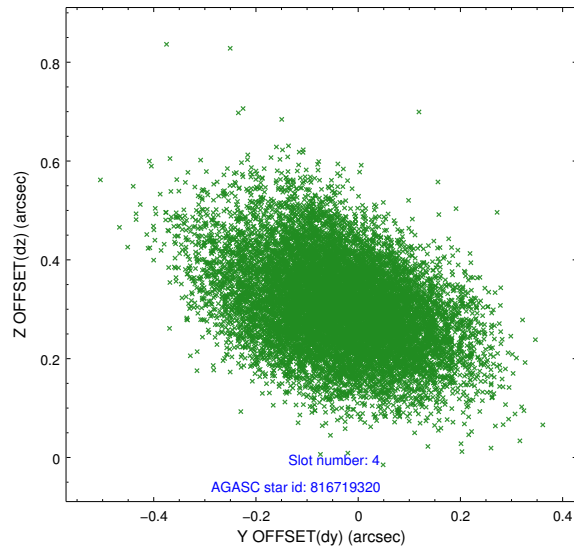
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		HRC-I-1	7.06	6139	1.000	-0.114	-0.144	0.008	0.014	0.000000	0.000000	-761.89	-1300
1	FID		HRC-I-3	7.16	6139	1.000	-0.256	-0.076	0.011	0.026	0.000000	0.000000	-1190.49	1003
2	FID		HRC-I-4	7.10	6137	1.000	0.483	0.131	0.014	0.032	0.000000	0.000000	1281.46	1001
3	GUIDE	used	816589608	8.36	12274	1.000	0.361	0.080	0.109	0.176	253.659974	-21.879606	-712.62	-1599
4	GUIDE	used	816719320	9.07	12259	1.000	-0.037	0.303	0.157	0.266	254.507879	-21.620199	-1977.16	1103
5	GUIDE	used	816723288	7.80	12275	1.000	-0.127	-0.032	0.085	0.148	254.188785	-21.796597	-1222.96	118
6	GUIDE	used	816725024	8.41	12269	1.000	-0.233	-0.046	0.100	0.170	254.689455	-21.769583	-1515.31	1769
7	GUIDE	used	892600464	8.87	12261	1.000	0.035	-0.303	0.093	0.152	254.248920	-22.576721	1542.13	650

2.4 Star Slots

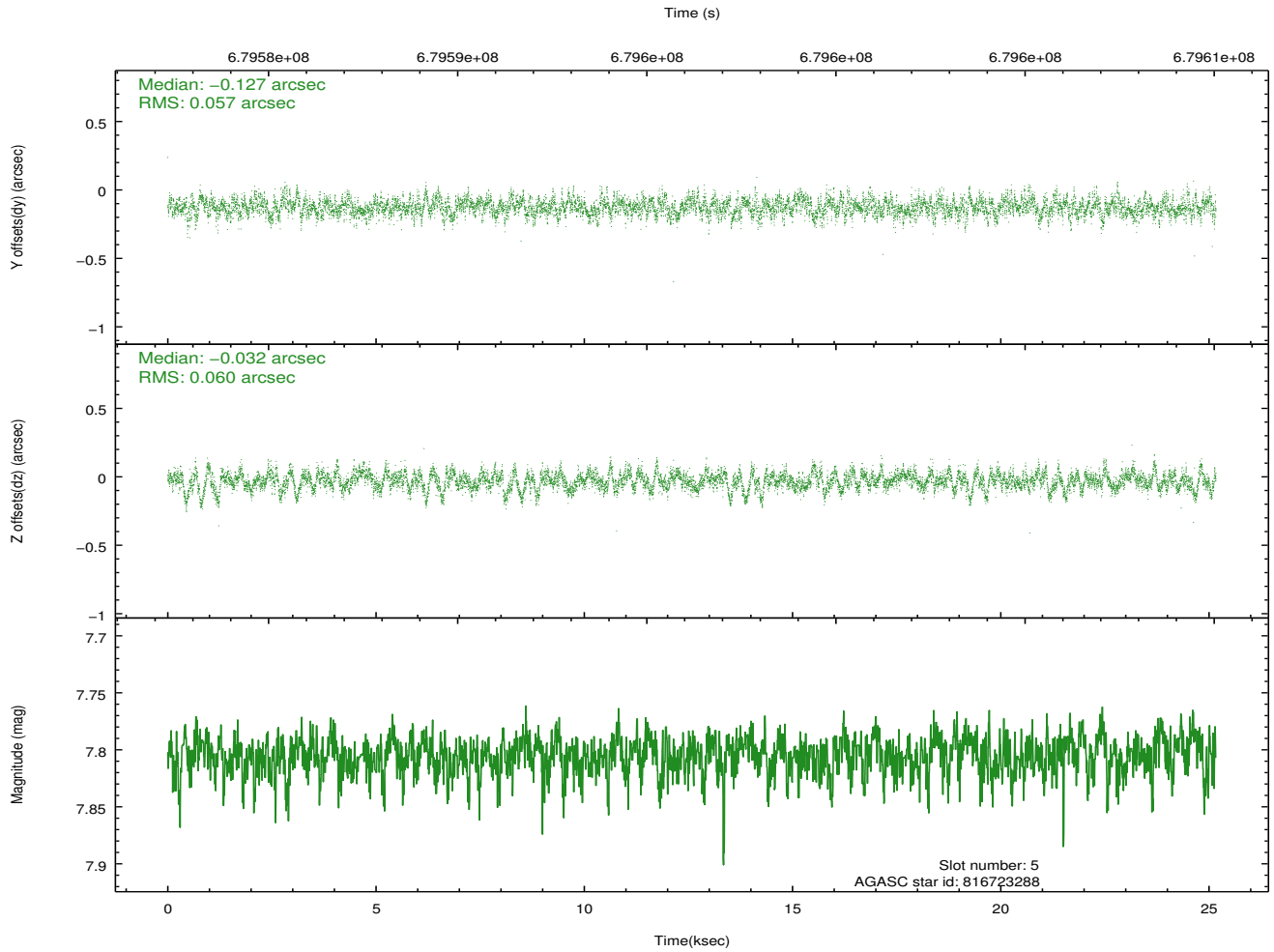
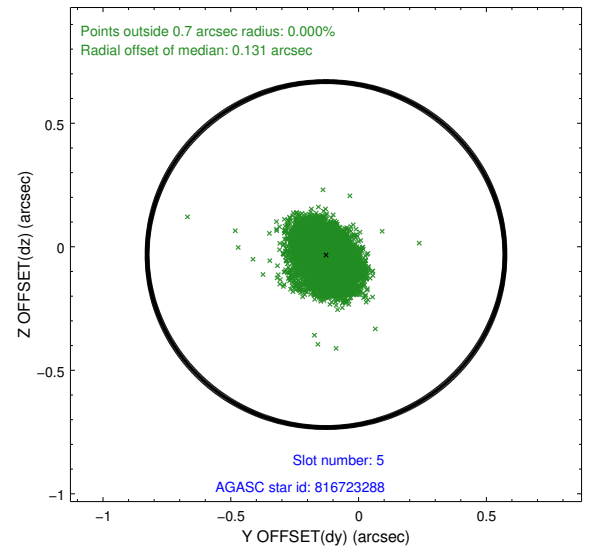
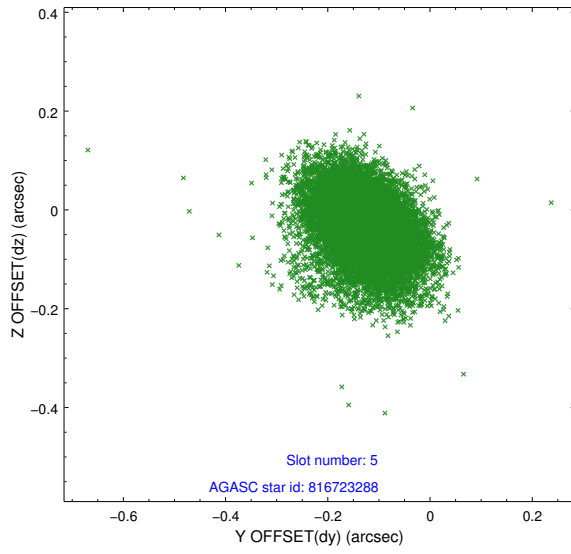
2.4.1 Slot 3



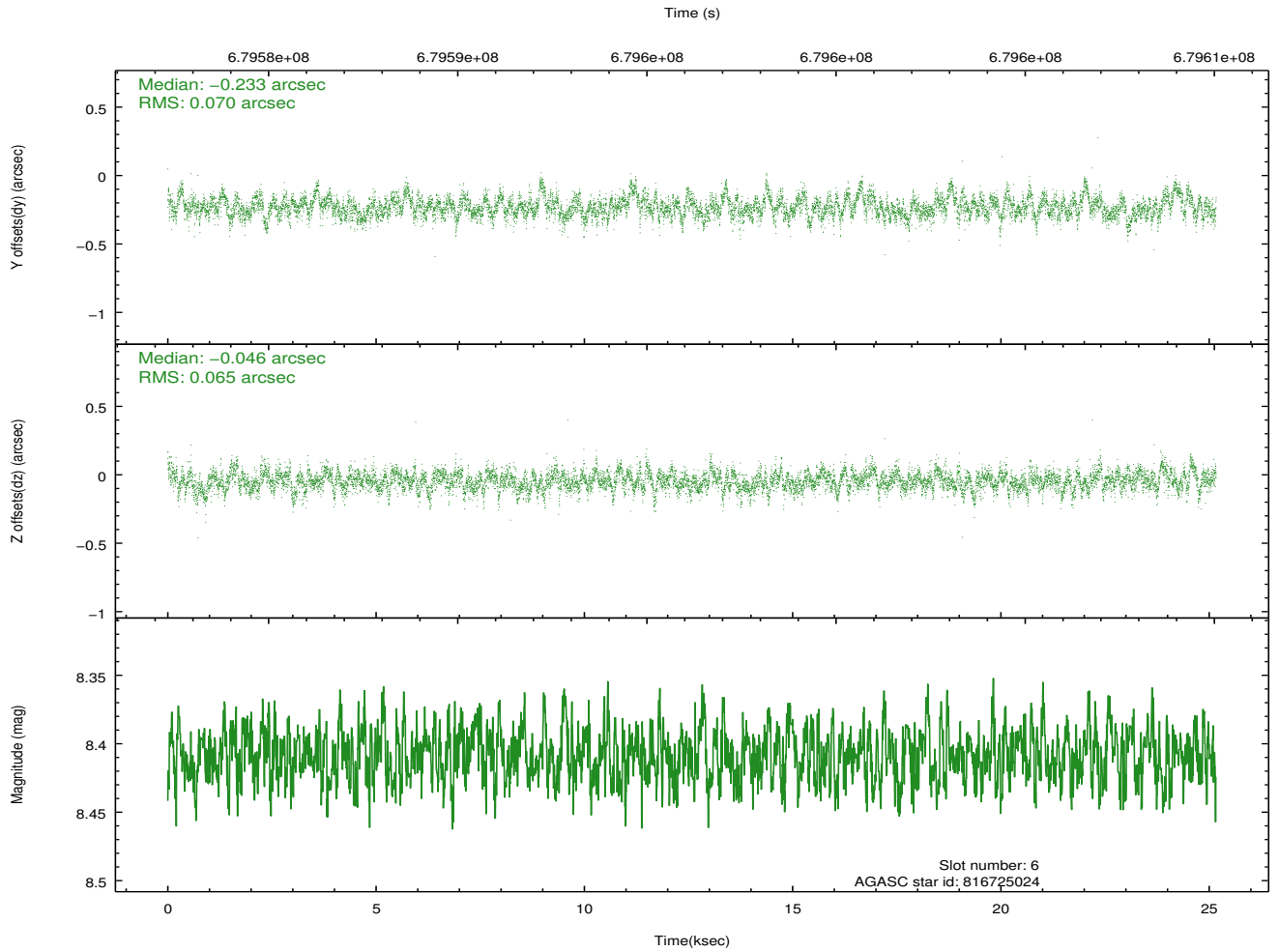
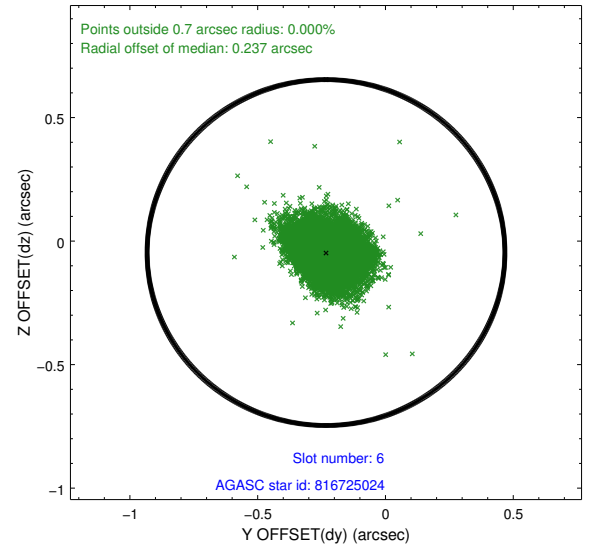
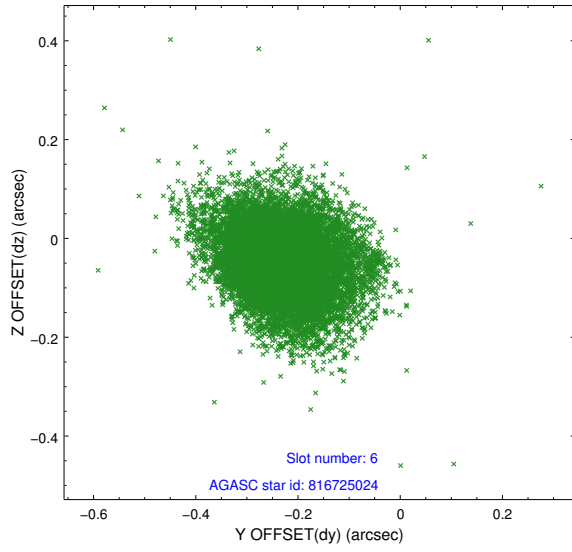
2.4.2 Slot 4



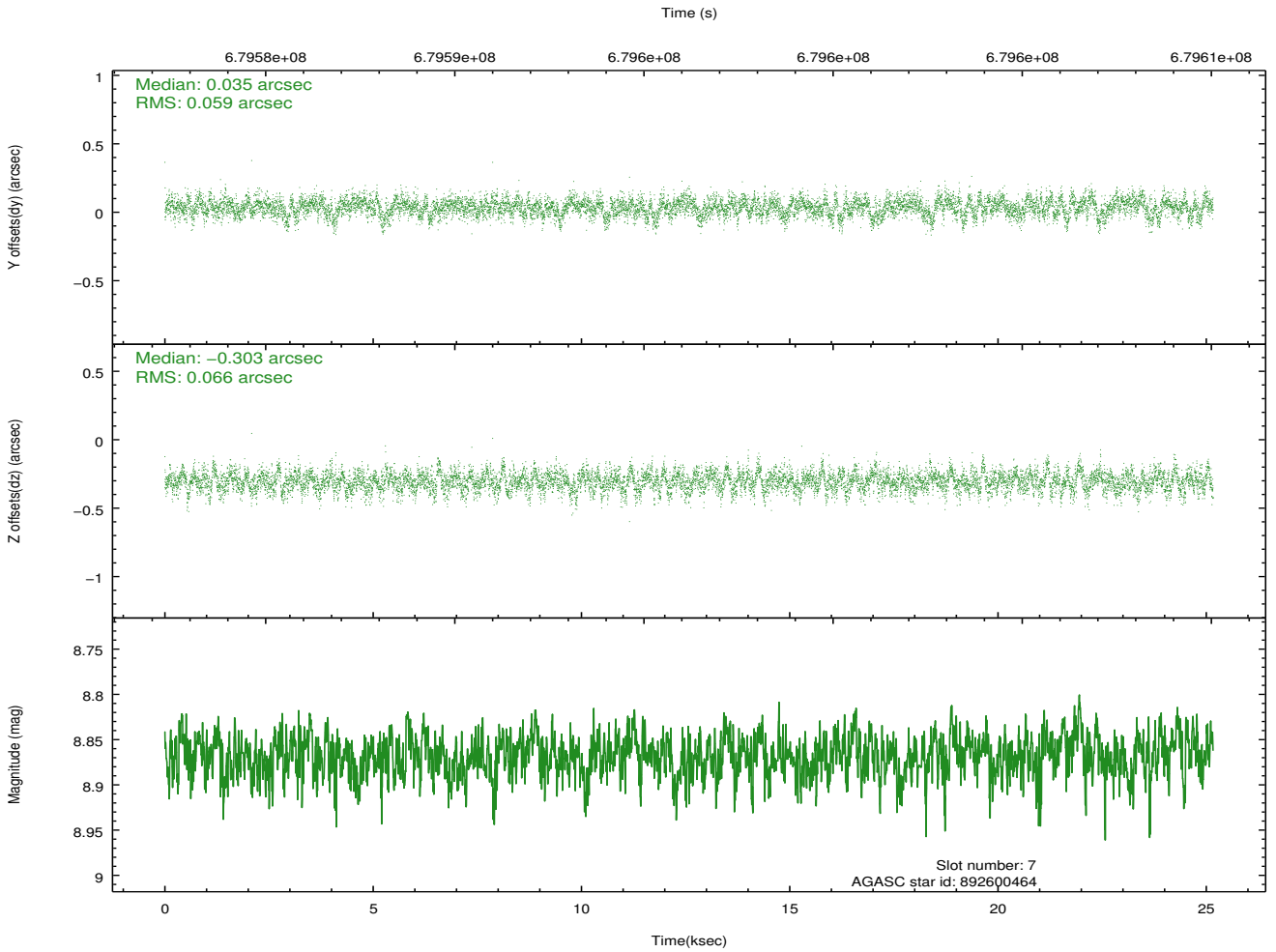
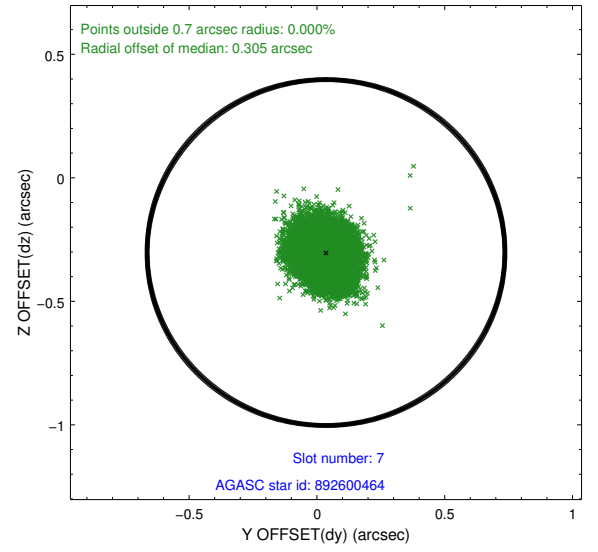
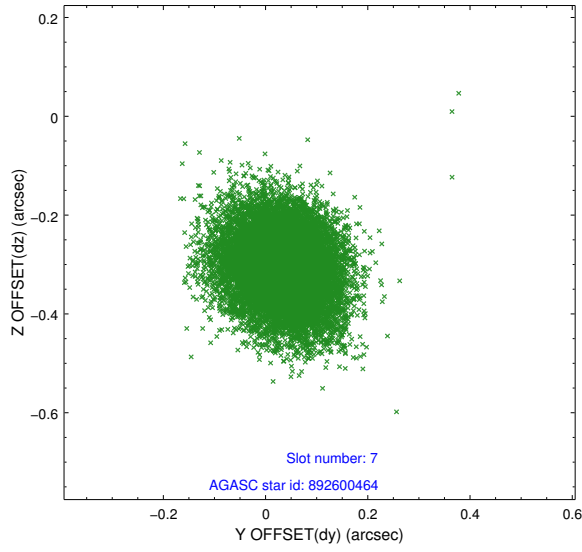
2.4.3 Slot 5



2.4.4 Slot 6

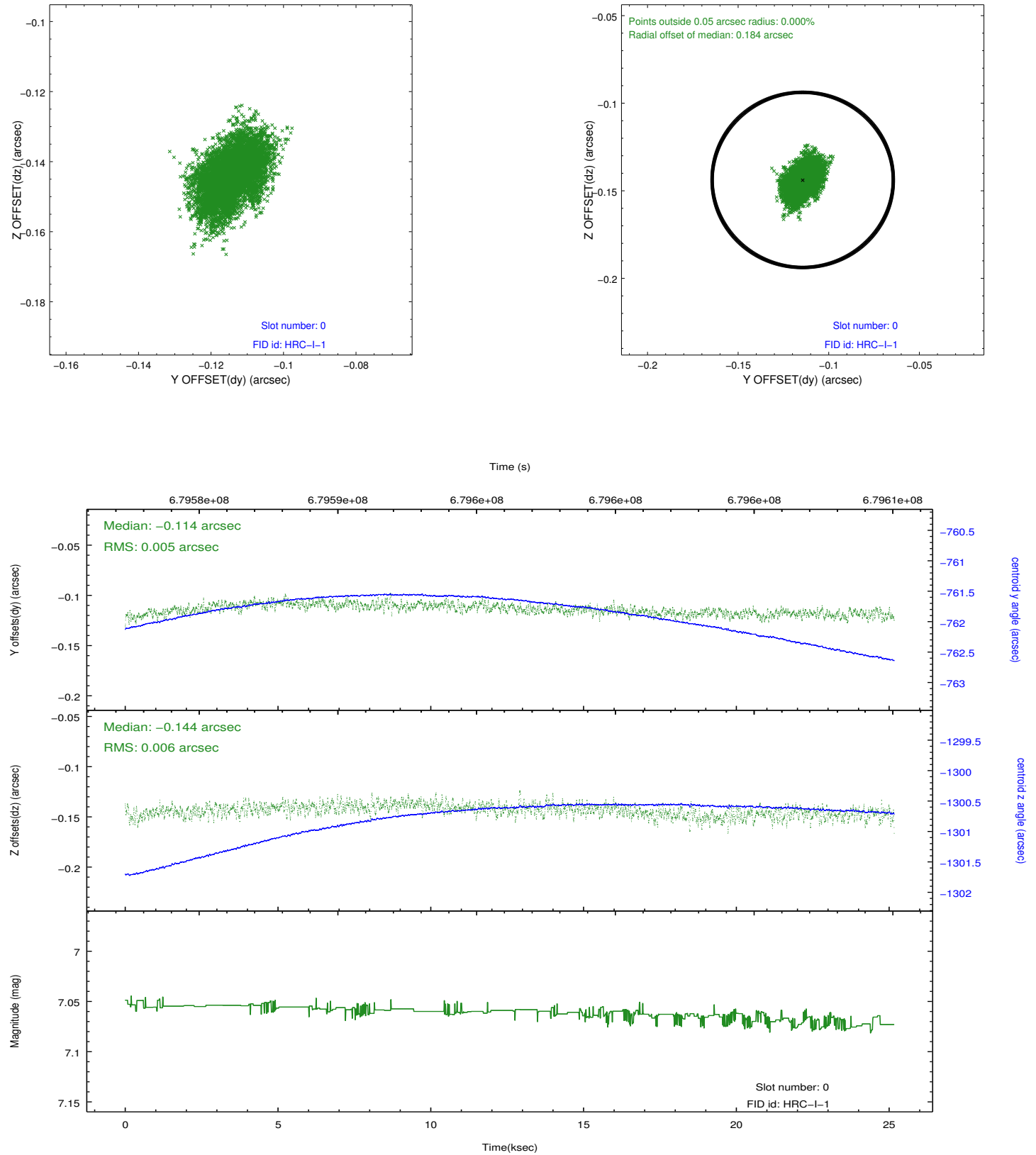


2.4.5 Slot 7

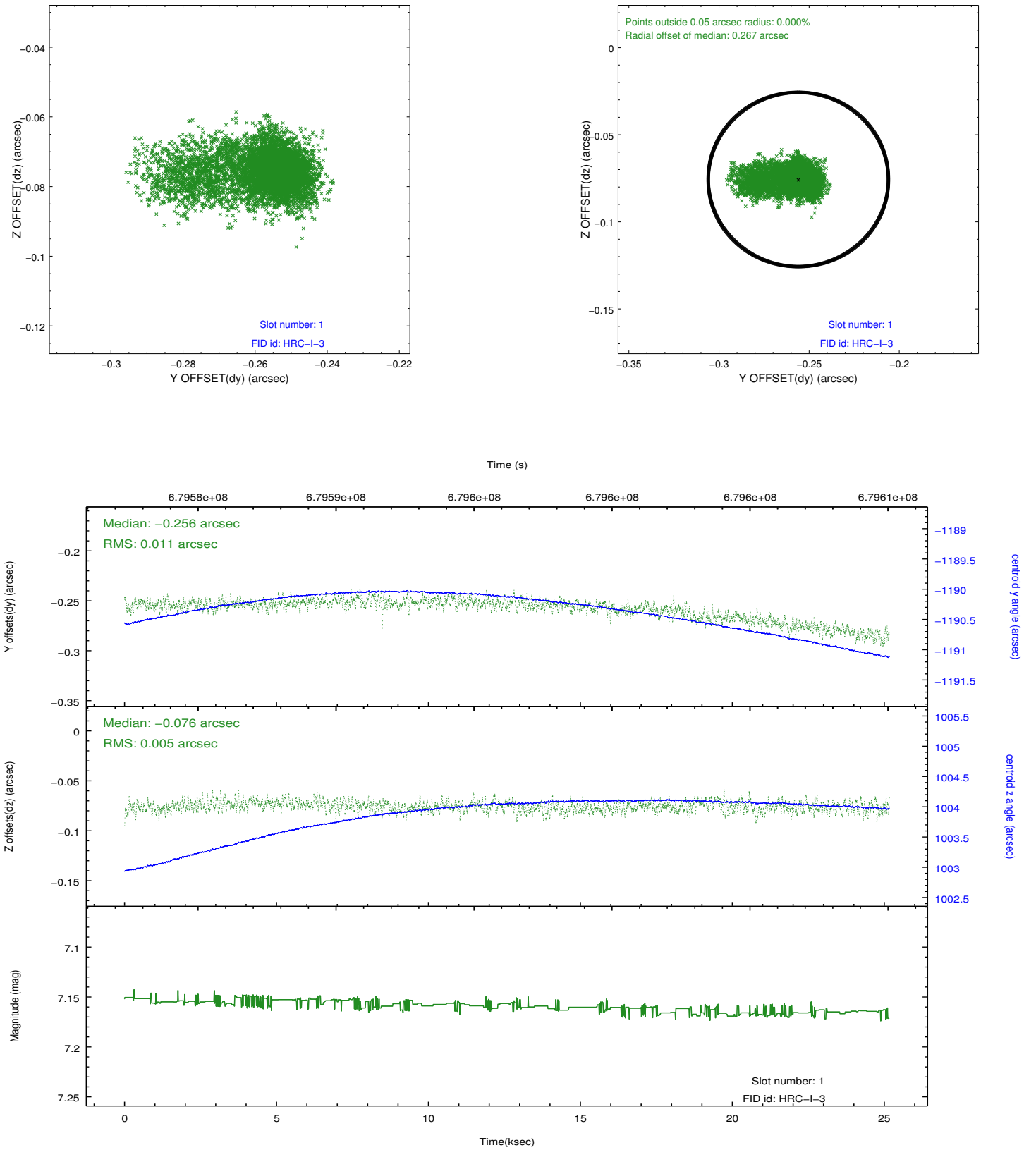


2.5 FID Slots

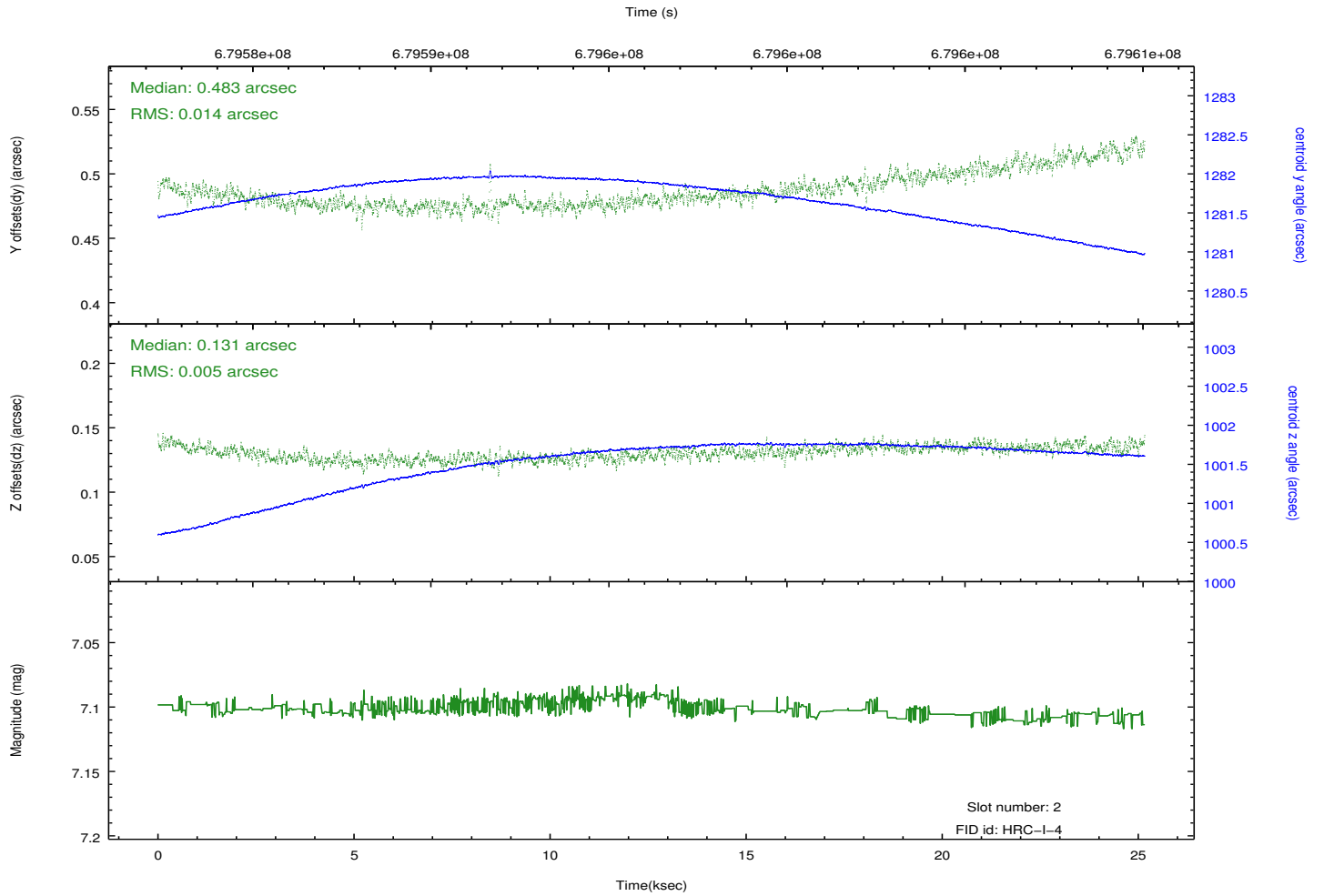
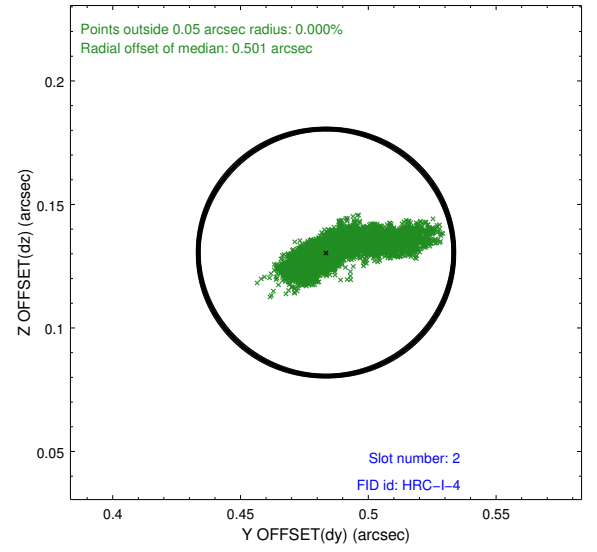
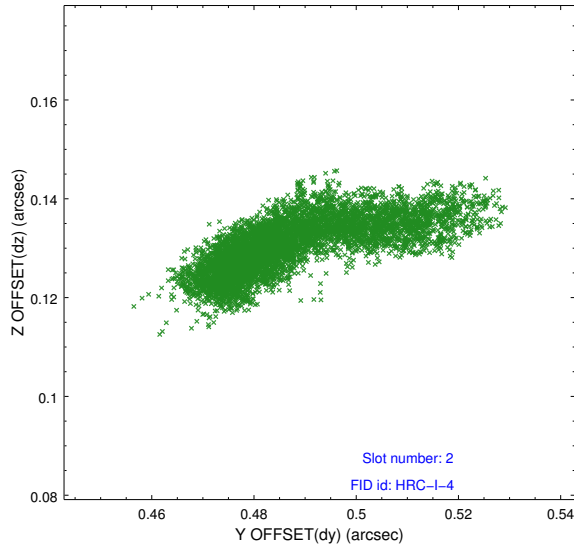
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2019.07.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.138382760167

A.2 Comments

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

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Joint Proposal: CXO-XMM. Window constraint met.

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Due to corruption of the secondary science data during this observation, some instrument parameters have bogus values. The data in this observation have been inspected by the HRC team. PLEASE NOTE: All the event data in this observation are good. The short gaps in the GTI intervals can be eliminated (i.e., use the first START and last STOP). THE DTF values during this observation can be estimated by dropping all the low values and averaging the remaining values near 1.0.