

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 13900 - L2 Version 2
Chandra X-Ray Center

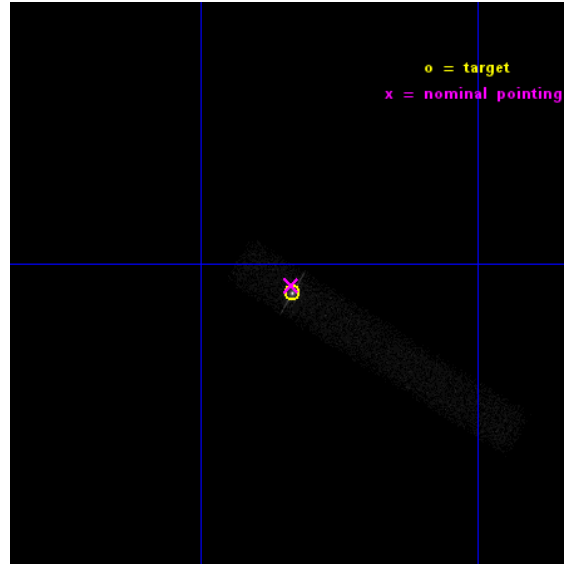
L2 Processing Date : Nov 27 2014

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1 Front

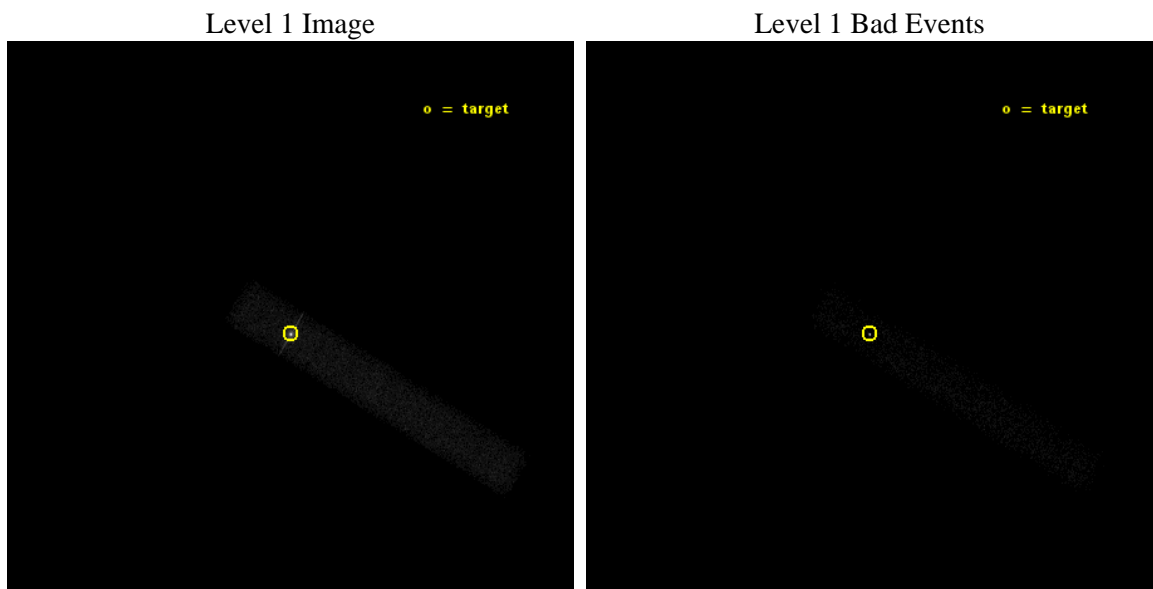
seq_num	702625	Sequence number
obs_id	13900	Observation id
title	CHANDRA SURVEY OF DUAL ACTIVATION IN HARD X-RAY SELECTED MERGING AGN HOSTS	Proposal title
observer	Dr. Richard Mushotzky	Principal investigator
object	Mrk 1152	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	18.45875	Observer's specified target RA [deg]
dec_targ	-14.845583	Observer's specified target Dec [deg]
ra_nom	18.458839780906	Nominal RA [deg]
dec_nom	-14.842556581178	Nominal Dec [deg]
roll_nom	31.0691036049	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20069.198803782	Sum of GTIs [s]
livetime	18201.703975859	Livetime [s]
ontime7	20069.198803782	Sum of GTIs [s]
l2events	38352	Number of level 2 events



2 OBI

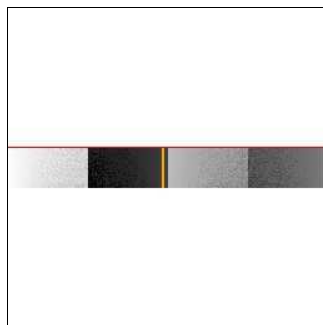
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	20069.198803782	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	20069.198803782	Sum of GTIs [s]
date	2014-11-27T17:28:57	Date and time of file creation	l1events	53530	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

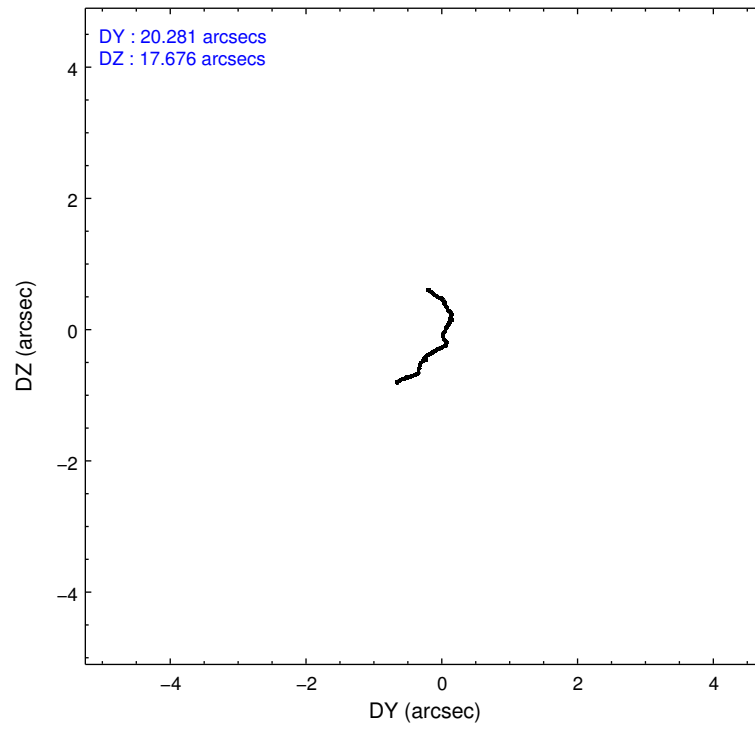
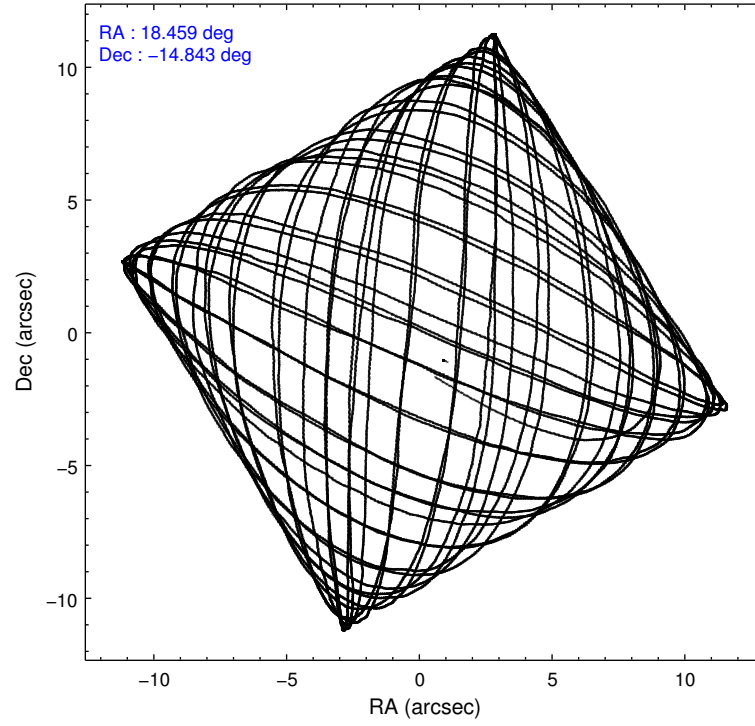
	ccd 7
level 1 events	53530
rejected events	14709
rejected %	27%

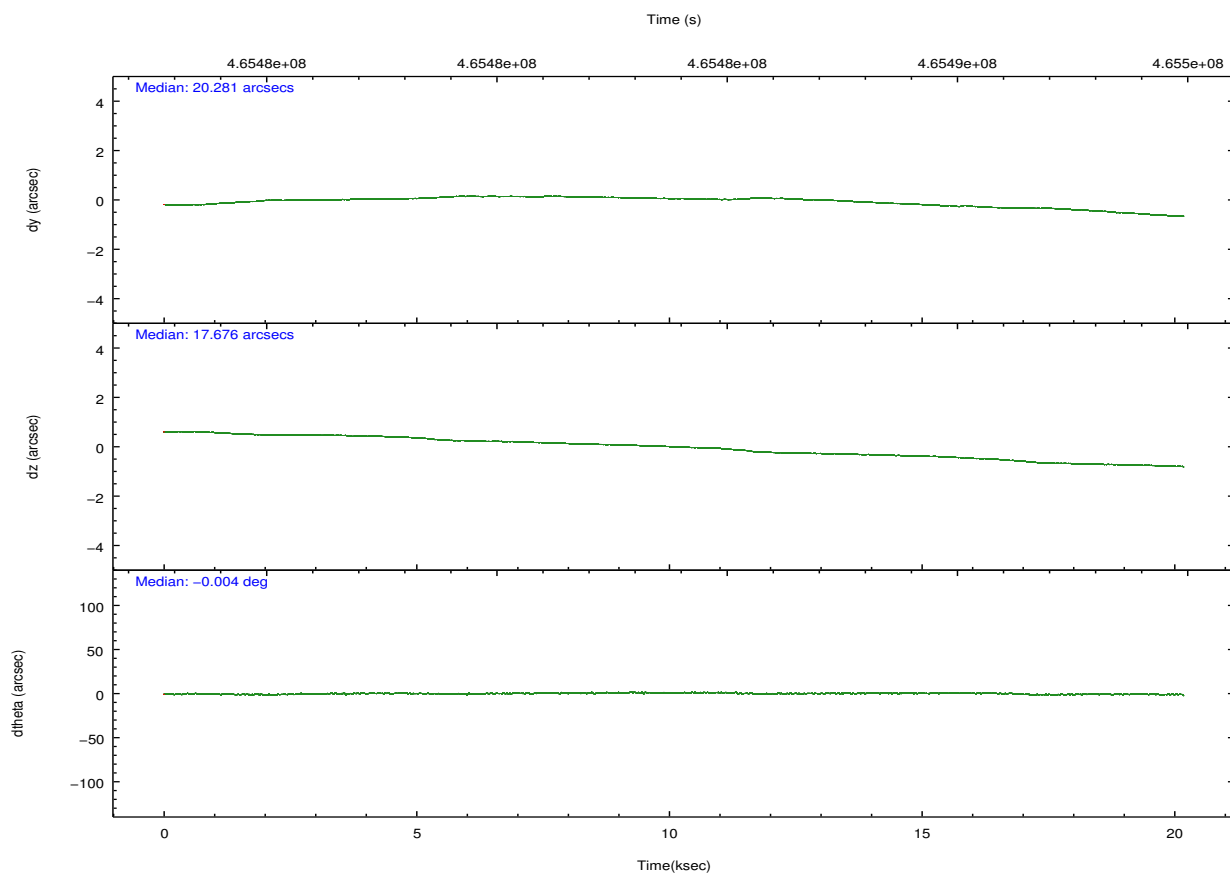
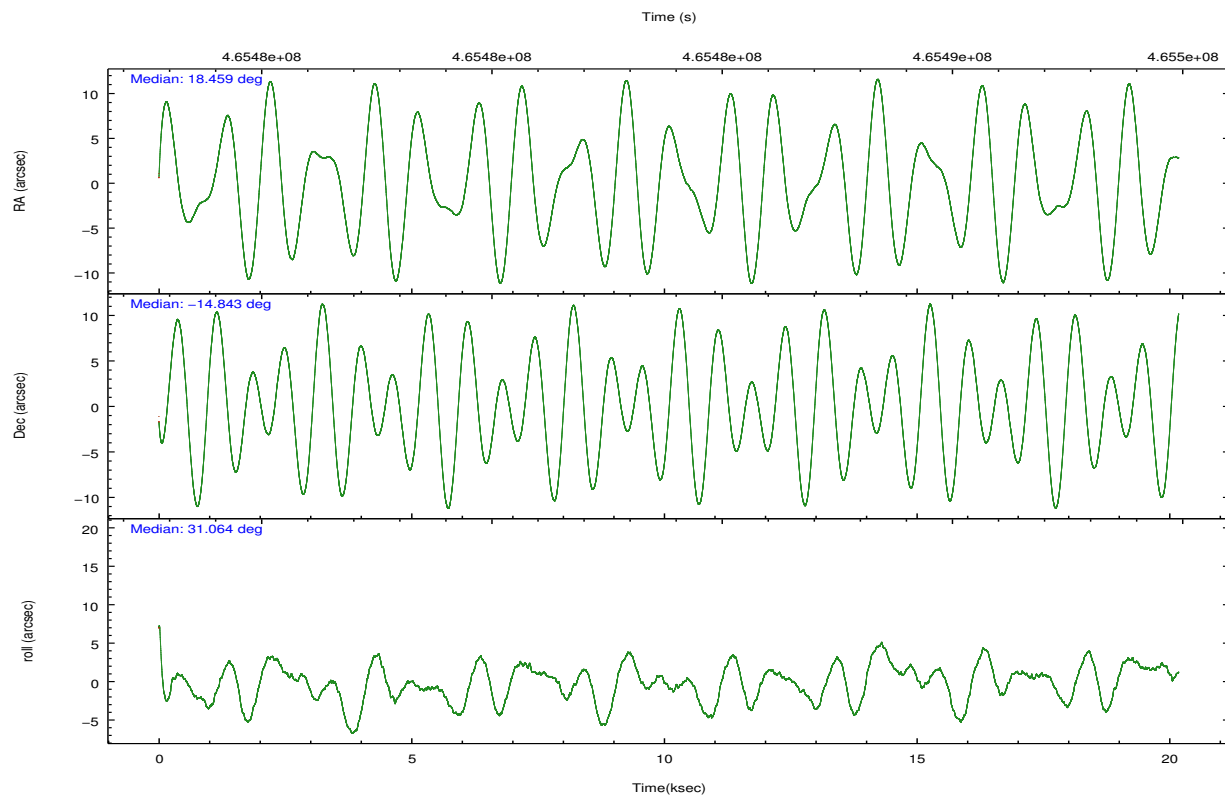
	ccd 7
grade 0 events	8338
	15%
grade 1 events	504
	0%
grade 2 events	9052
	16%
grade 3 events	4544
	8%
grade 4 events	4356
	8%
grade 5 events	4070
	7%
grade 6 events	12534
	23%
grade 7 events	10132
	18%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	18.445485	18.45883978090589	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-14.866667	-14.84255658117787	Subarray start row	449	449
[deg] Pointing Roll	30.909045	31.06910360489964	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	465473937.184000	465472872.71579			
Observation start date	2012-10-01T10:17:50	2012-10-01T10:01:12			
[s] Observation end time (MET)	465493937.184000	465494958.90448			
Observation end date	2012-10-01T15:51:10	2012-10-01T16:09:18			
Read mode	TIMED	TIMED			

2.3 Aspect



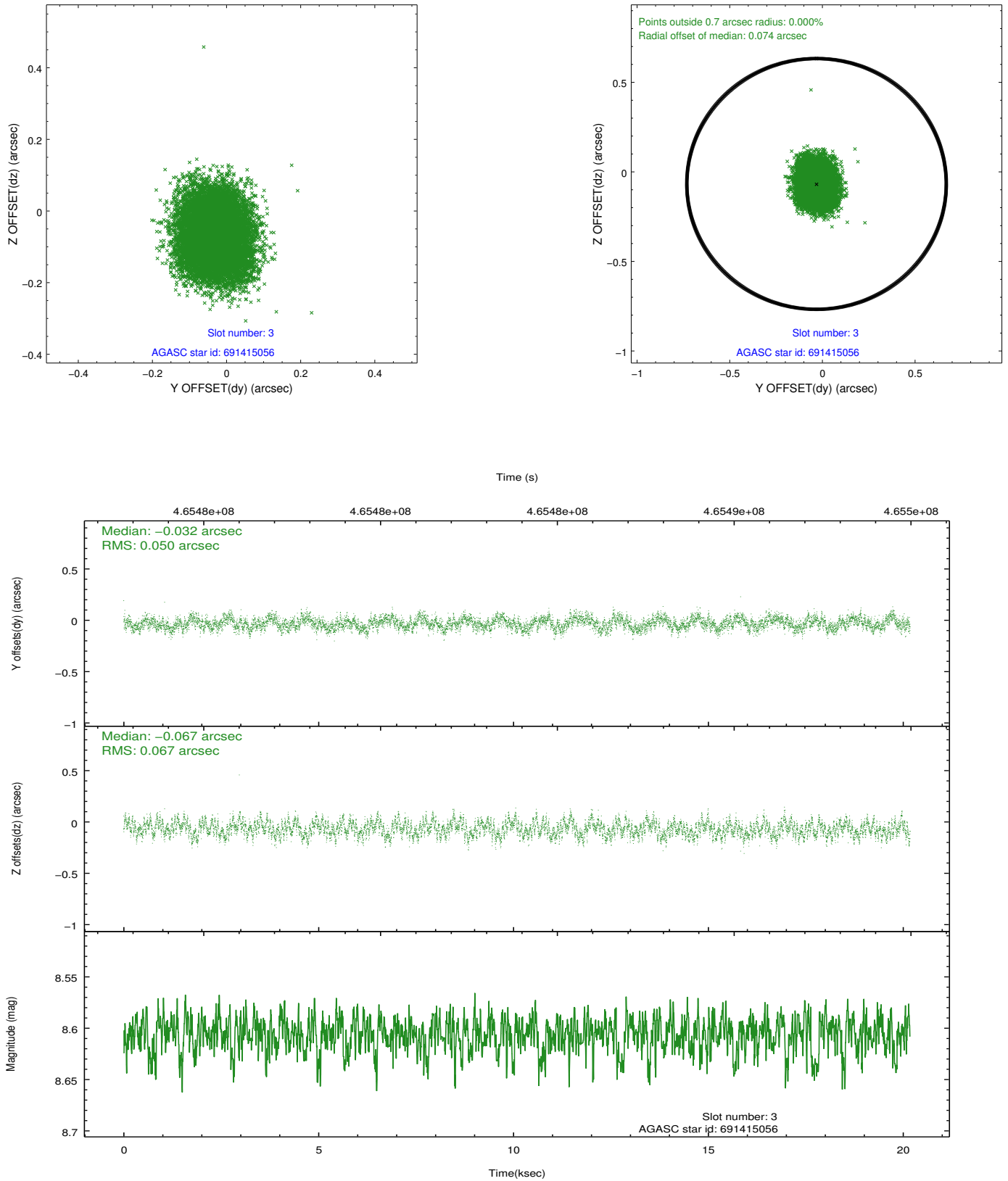


Slot Statistics

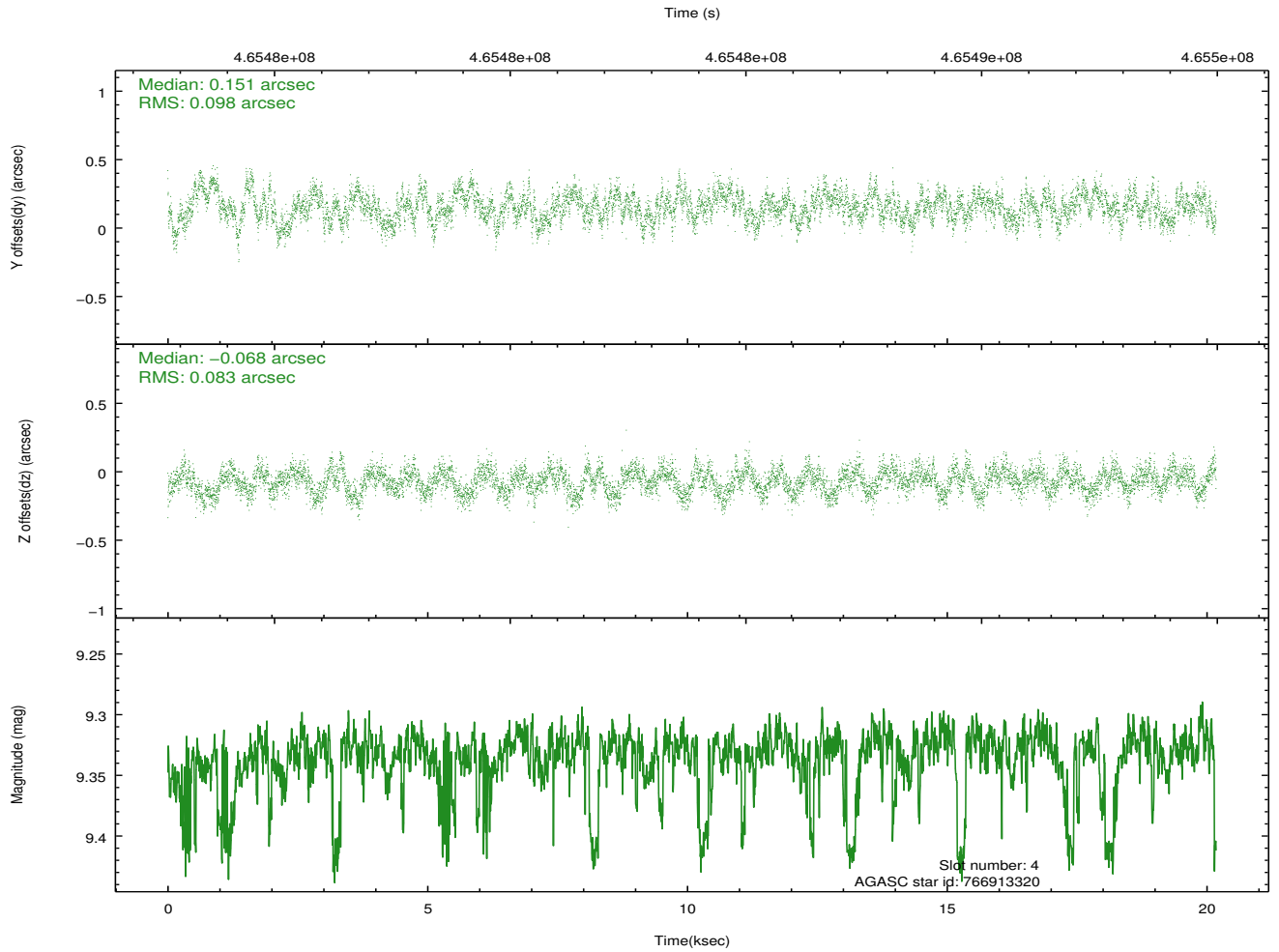
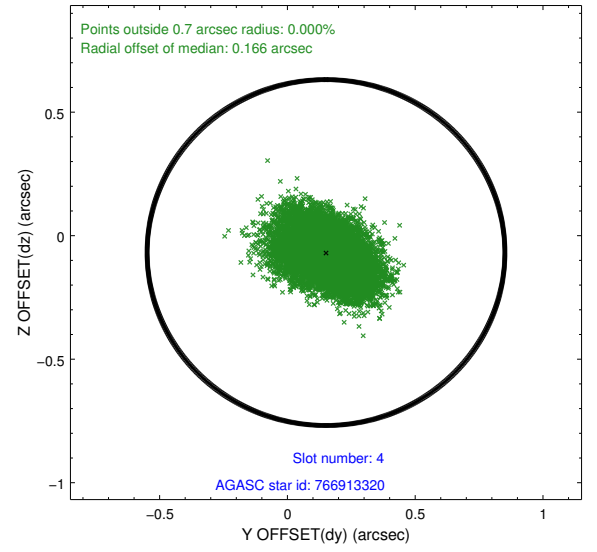
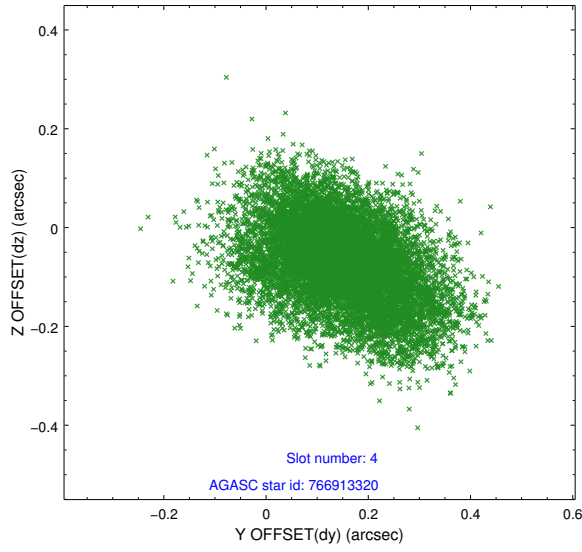
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.00	4923	0.041	-0.037	0.024	0.034	0.000000	0.000000	922.74	-1734.76
1	FID		ACIS-S-4	7.01	4923	0.194	0.009	0.017	0.034	0.000000	0.000000	2140.43	169.24
2	FID		ACIS-S-5	7.03	4922	-0.263	0.040	0.010	0.018	0.000000	0.000000	-1826.17	163.13
3	GUIDE	used	691415056	8.61	9842	-0.032	-0.067	0.091	0.142	18.240329	-14.768285	-431.11	670.41
4	GUIDE	used	766913320	9.33	9798	0.151	-0.068	0.138	0.225	19.232794	-15.065965	1977.94	-2025.33
5	GUIDE	used	766916720	8.58	9838	0.060	0.107	0.096	0.144	18.450355	-15.345446	-871.46	-1489.34
6	GUIDE	used	691416128	8.80	9808	-0.245	-0.202	0.090	0.178	18.630740	-14.273518	1651.31	1499.69
7	GUIDE	used	766916472	9.18	9805	0.050	0.244	0.133	0.214	18.430628	-15.632001	-1458.69	-2337.08

2.4 Star Slots

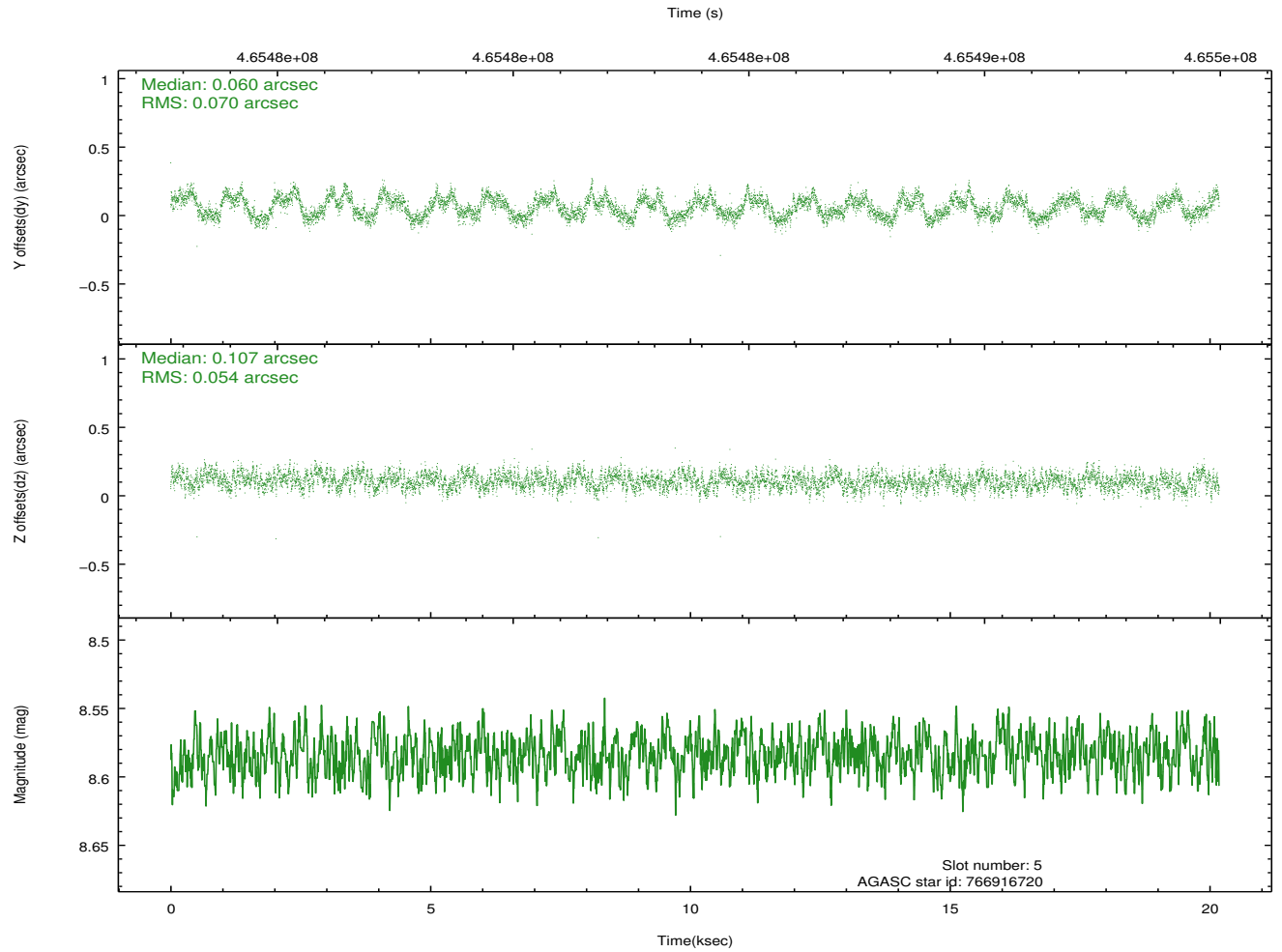
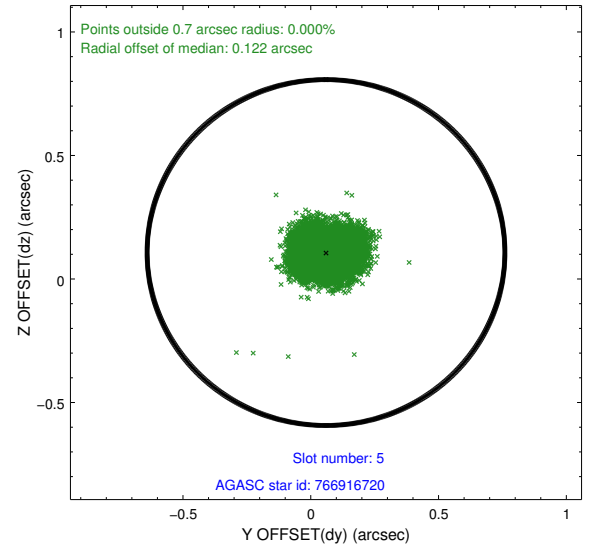
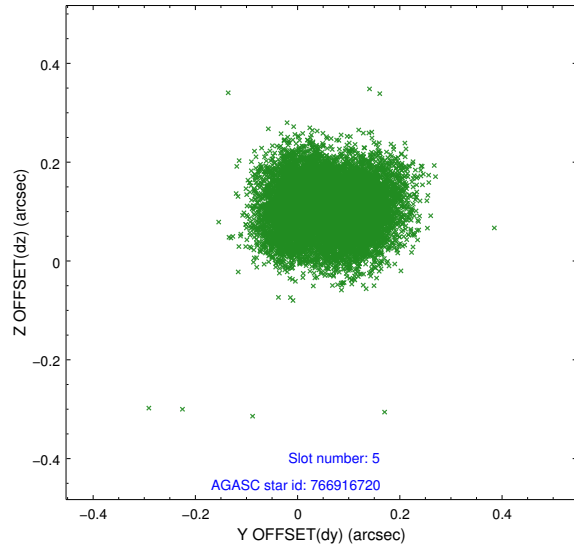
2.4.1 Slot 3



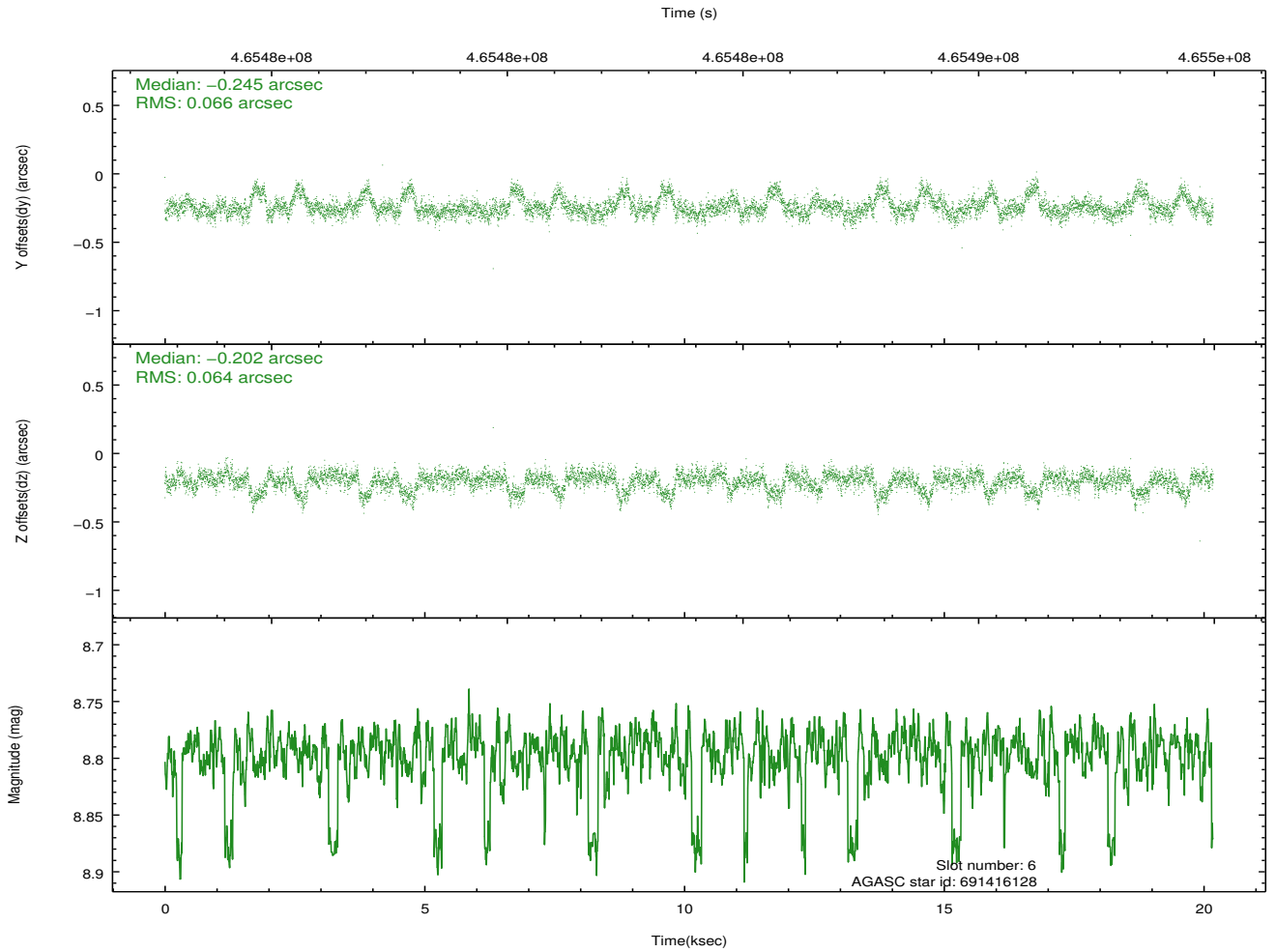
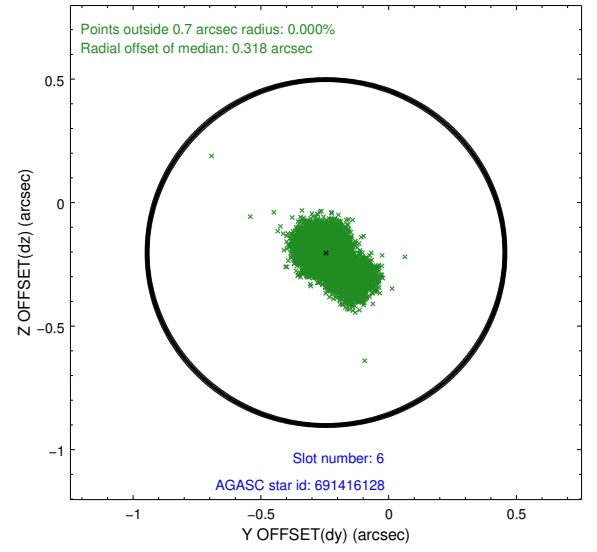
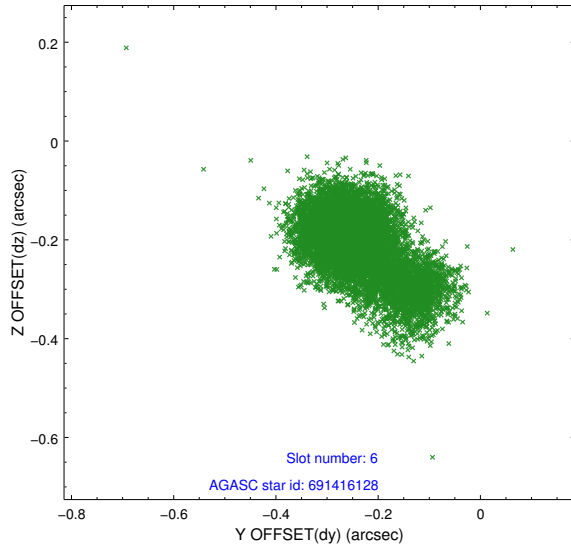
2.4.2 Slot 4



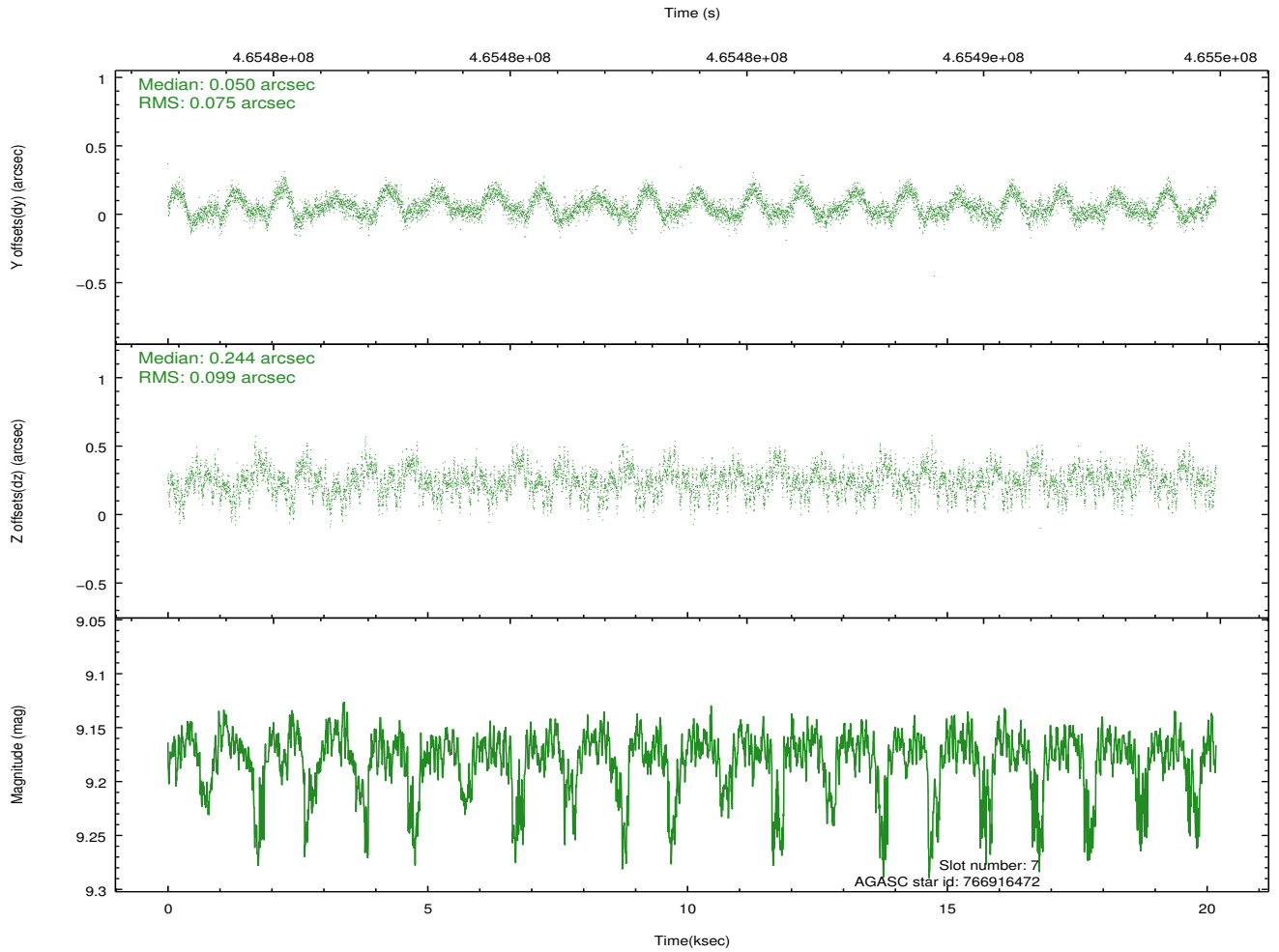
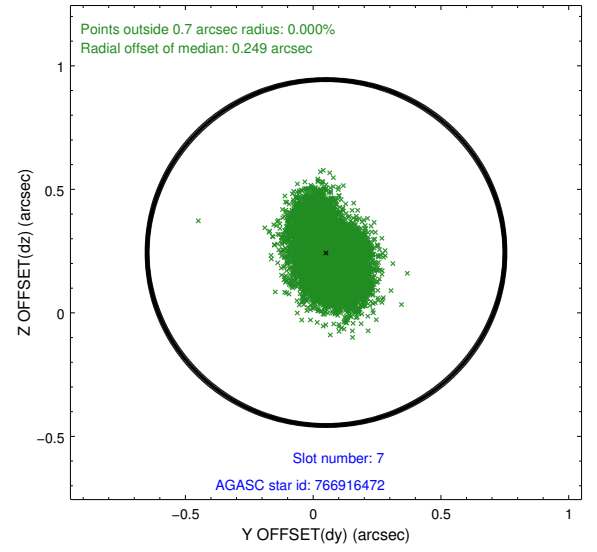
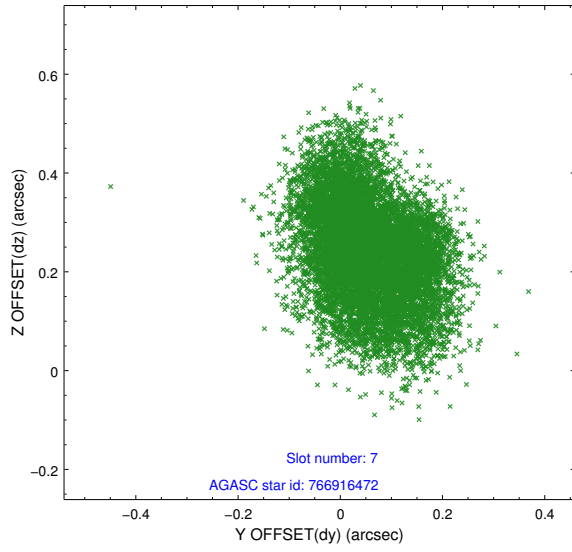
2.4.3 Slot 5



2.4.4 Slot 6

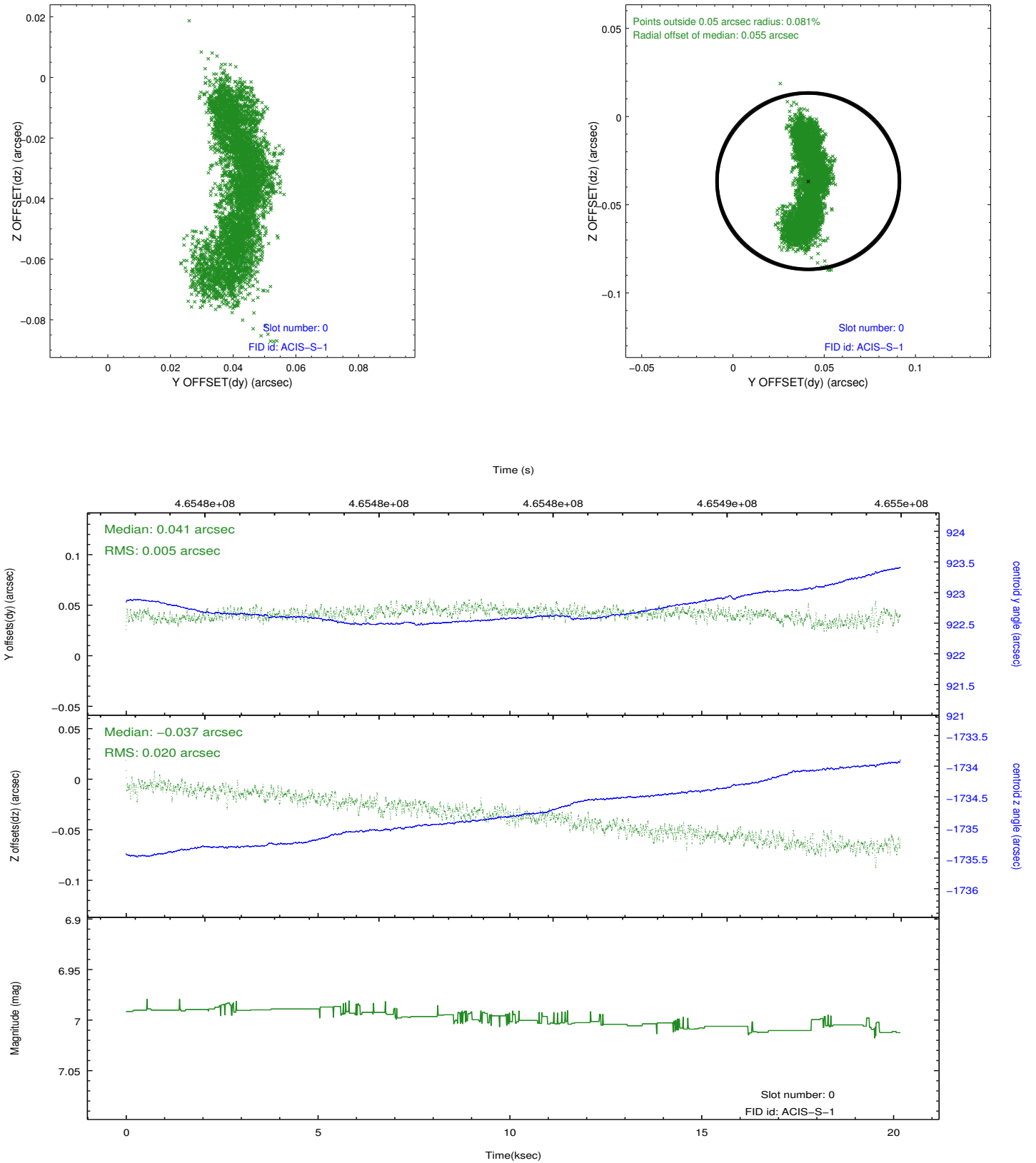


2.4.5 Slot 7

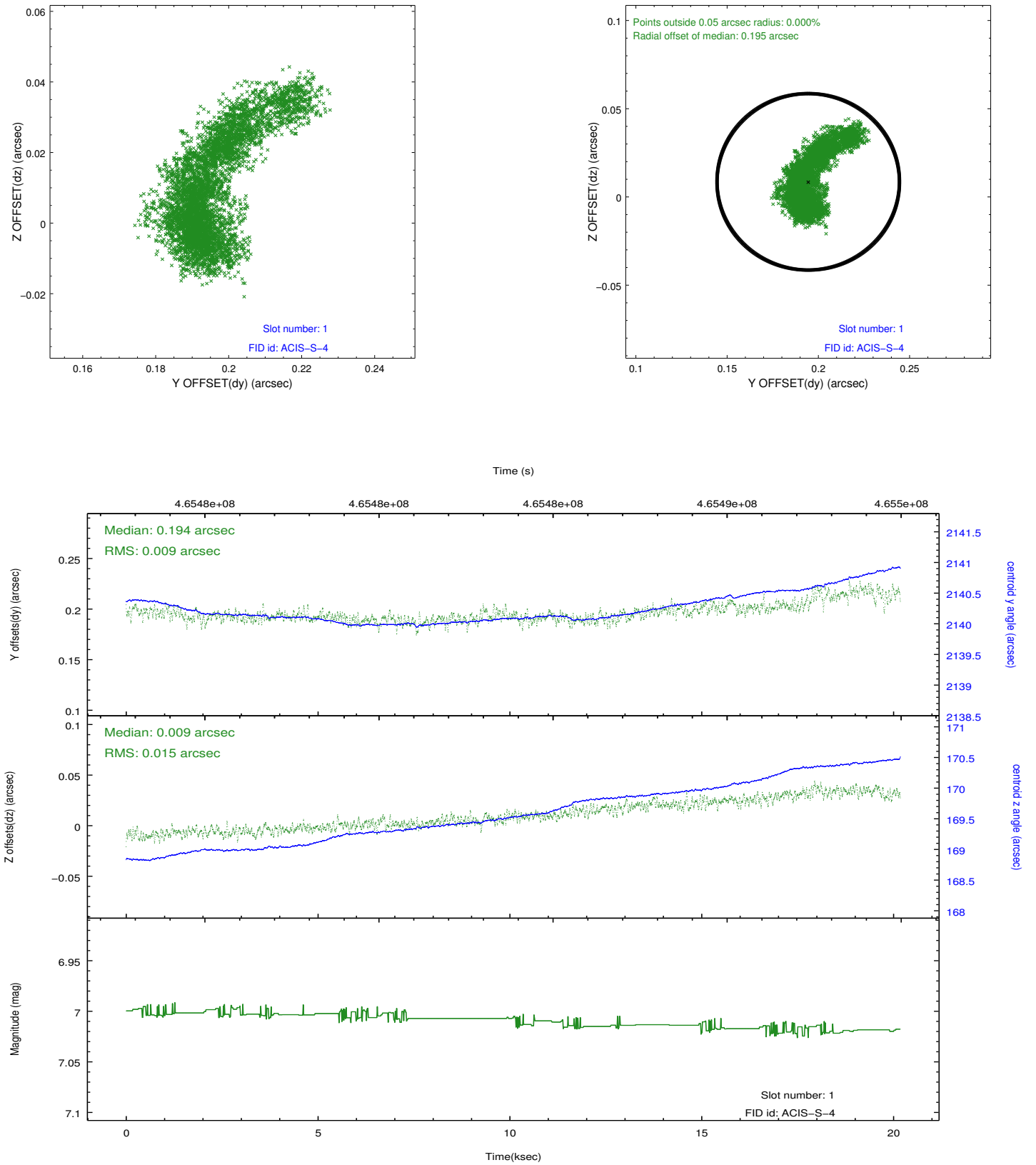


2.5 FID Slots

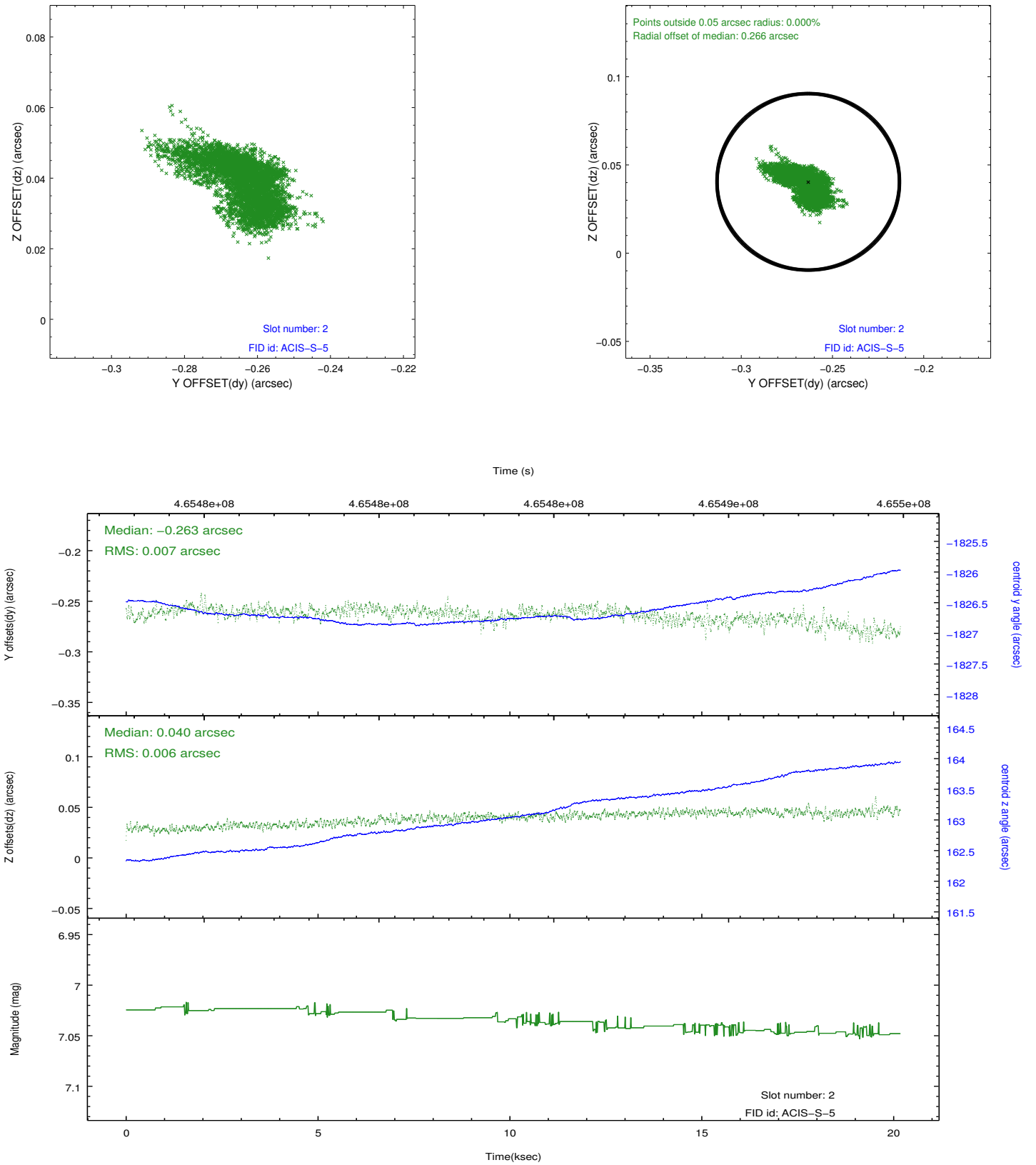
2.5.1 Slot 0



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)	2014.12.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.069198803782

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.