

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15613 - L2 Version 2
Chandra X-Ray Center

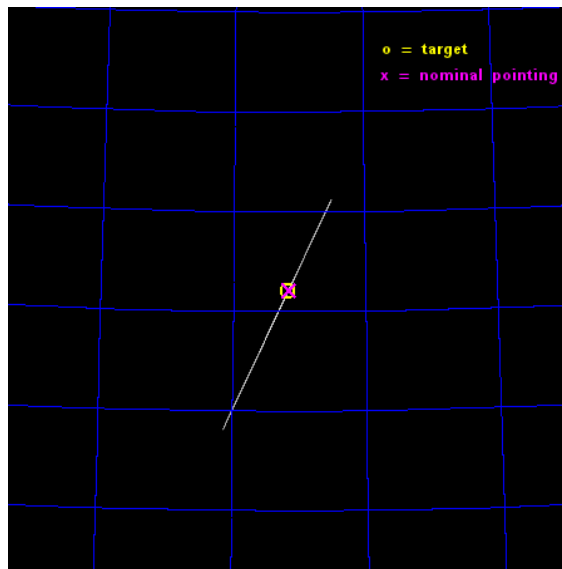
L2 Processing Date : Dec 1 2014

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1 Front

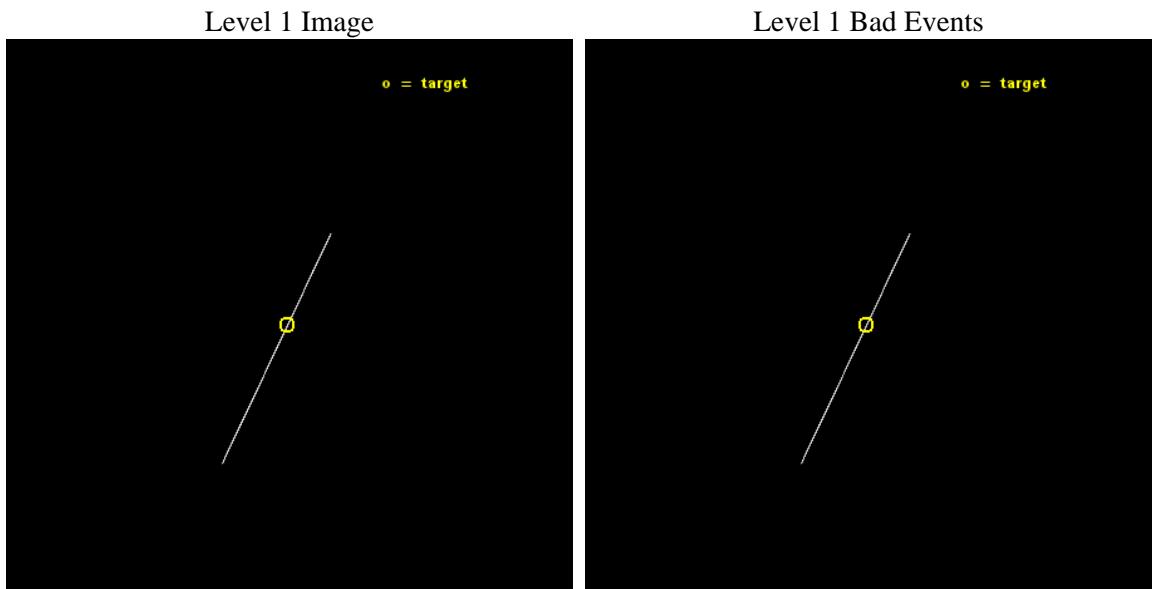
seq_num	501620	Sequence number
obs_id	15613	Observation id
title	Investigating the Nature of the Unusual 59 ms Pulsar 'Calvera	P
observer	Prof. Jules Halpern	Principal investigator
object	1RXS J141256.0+792204	Source name
ra_targ	213.2325	Observer's specified target RA [deg]
dec_targ	79.367694	Observer's specified target Dec [deg]
ra_nom	213.21621891785	Nominal RA [deg]
dec_nom	79.368012828967	Nominal Dec [deg]
roll_nom	116.17266123873	Nominal Roll [deg]
revision	2	Processing version of data
ontime	17160.25	Sum of GTIs [s]
livetime	17093.217773438	Livetime [s]
ontime6	17160.25	Sum of GTIs [s]
ontime7	17160.25	Sum of GTIs [s]
ontime8	17160.25	Sum of GTIs [s]
l2events	90972	Number of level 2 events



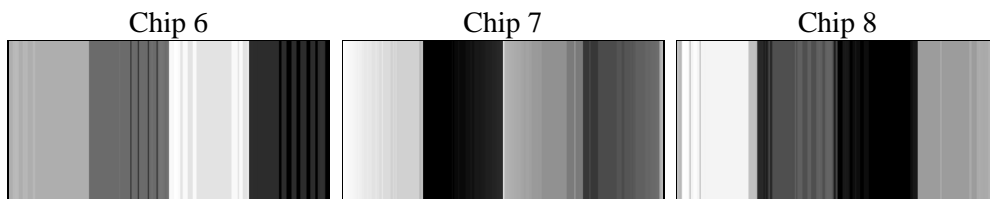
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	17000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	17160.25	Sum of GTIs [s]
caldsver	4.6.4	 	ontime6	17160.25	Sum of GTIs [s]
date	2014-12-01T13:34:52	Date and time of file creation	ontime7	17160.25	Sum of GTIs [s]
revision	2	Processing version of data	ontime8	17160.25	Sum of GTIs [s]
			l1events	610600	Number of level 1 events

2.1.4 Events

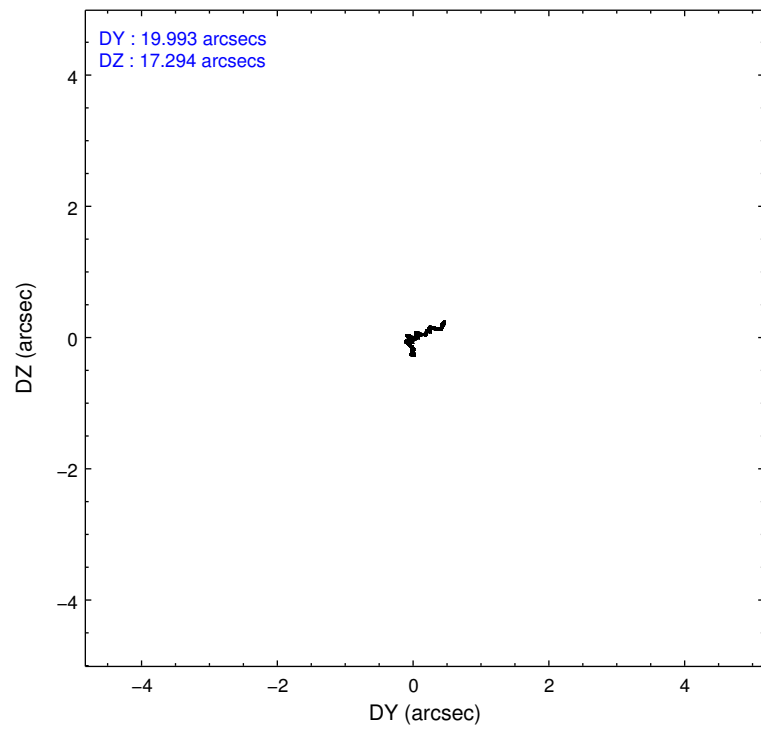
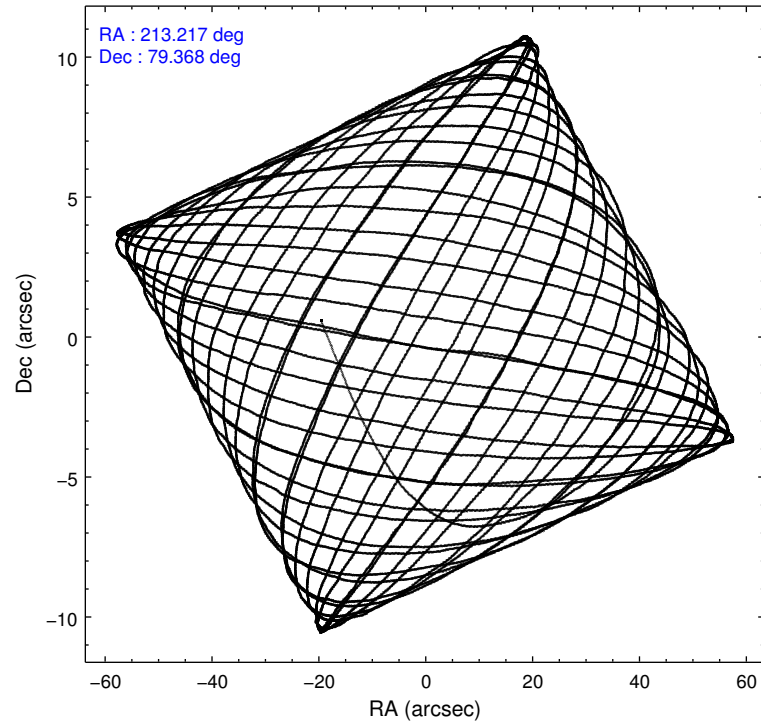
	ccd 6	ccd 7	ccd 8
level 1 events	167965	188952	253683
rejected events	150839	127372	210058
rejected %	89%	67%	82%

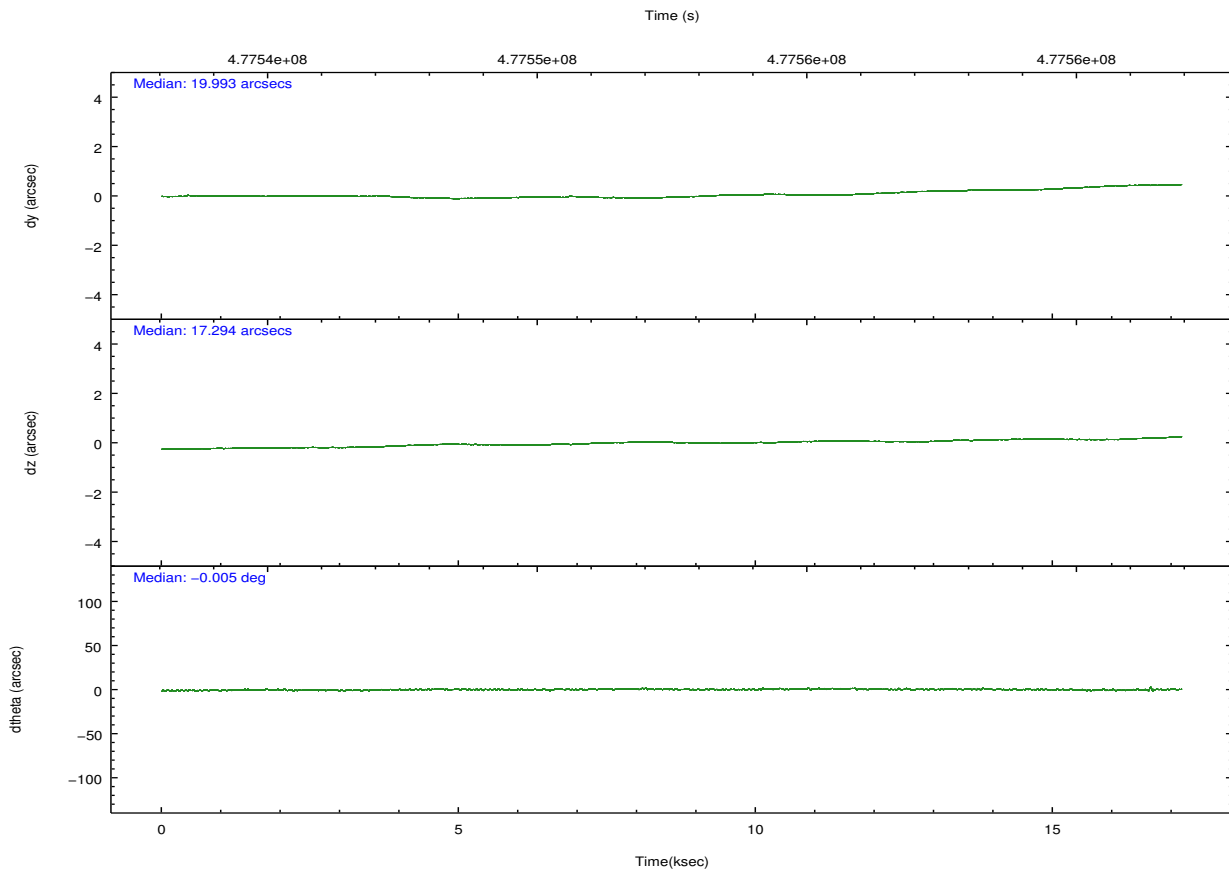
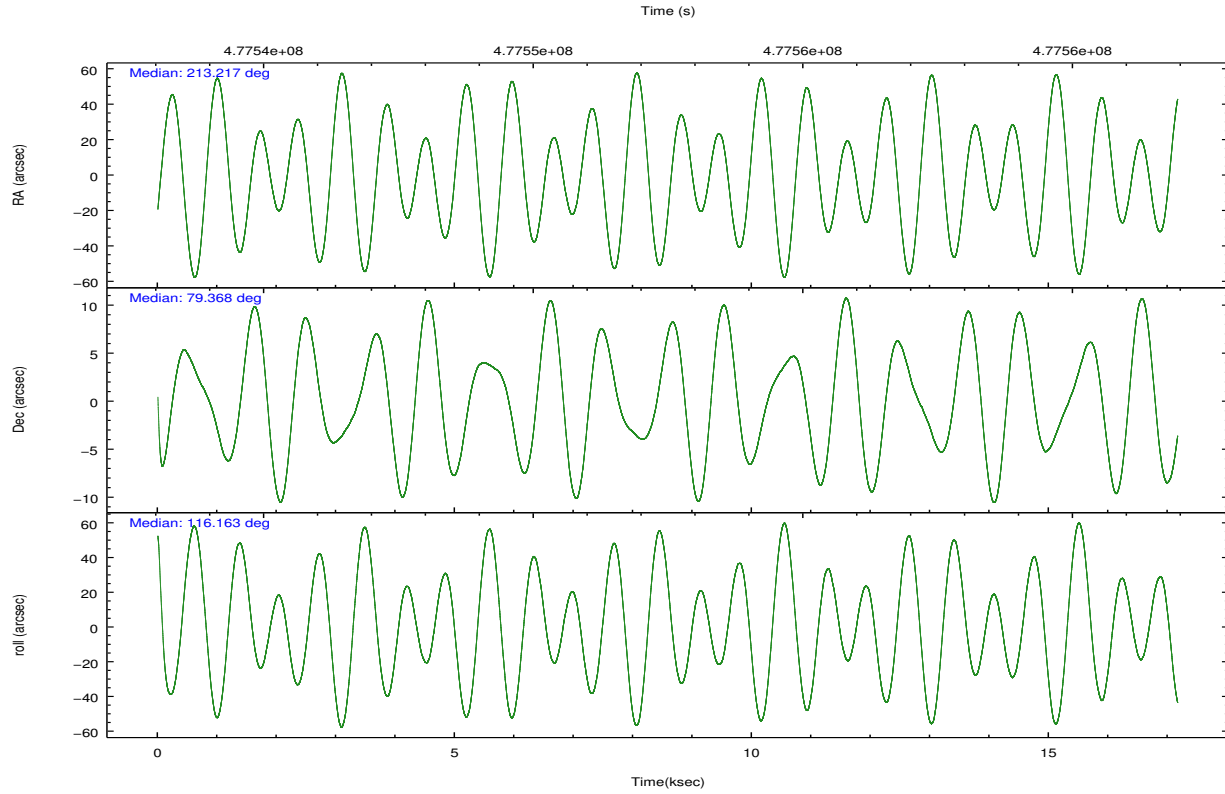
	ccd 6	ccd 7	ccd 8
grade 0 events	1974	5203	9235
	1%	2%	3%
grade 1 events	91	162	174
	0%	0%	0%
grade 2 events	6227	16254	13238
	3%	8%	5%
grade 3 events	2314	3368	4467
	1%	1%	1%
grade 4 events	2104	3343	4509
	1%	1%	1%
grade 5 events	5245	12812	7311
	3%	6%	2%
grade 6 events	4508	33425	12180
	2%	17%	4%
grade 7 events	145502	114385	202569
	86%	60%	79%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	213.340238	213.2162189178511	Subarray requested	NONE	NONE
[deg] Pointing Dec	79.353105	79.36801282896684	Alternating exposures requested	N	N
[deg] Pointing Roll	115.894119	116.1726612387255	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	477544082.184000	477543172.91564			
Observation start date	2013-02-18T03:06:55	2013-02-18T02:52:52			
[s] Observation end time (MET)	477561082.184000	477561818.17915			
Observation end date	2013-02-18T07:50:15	2013-02-18T08:03:38			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect





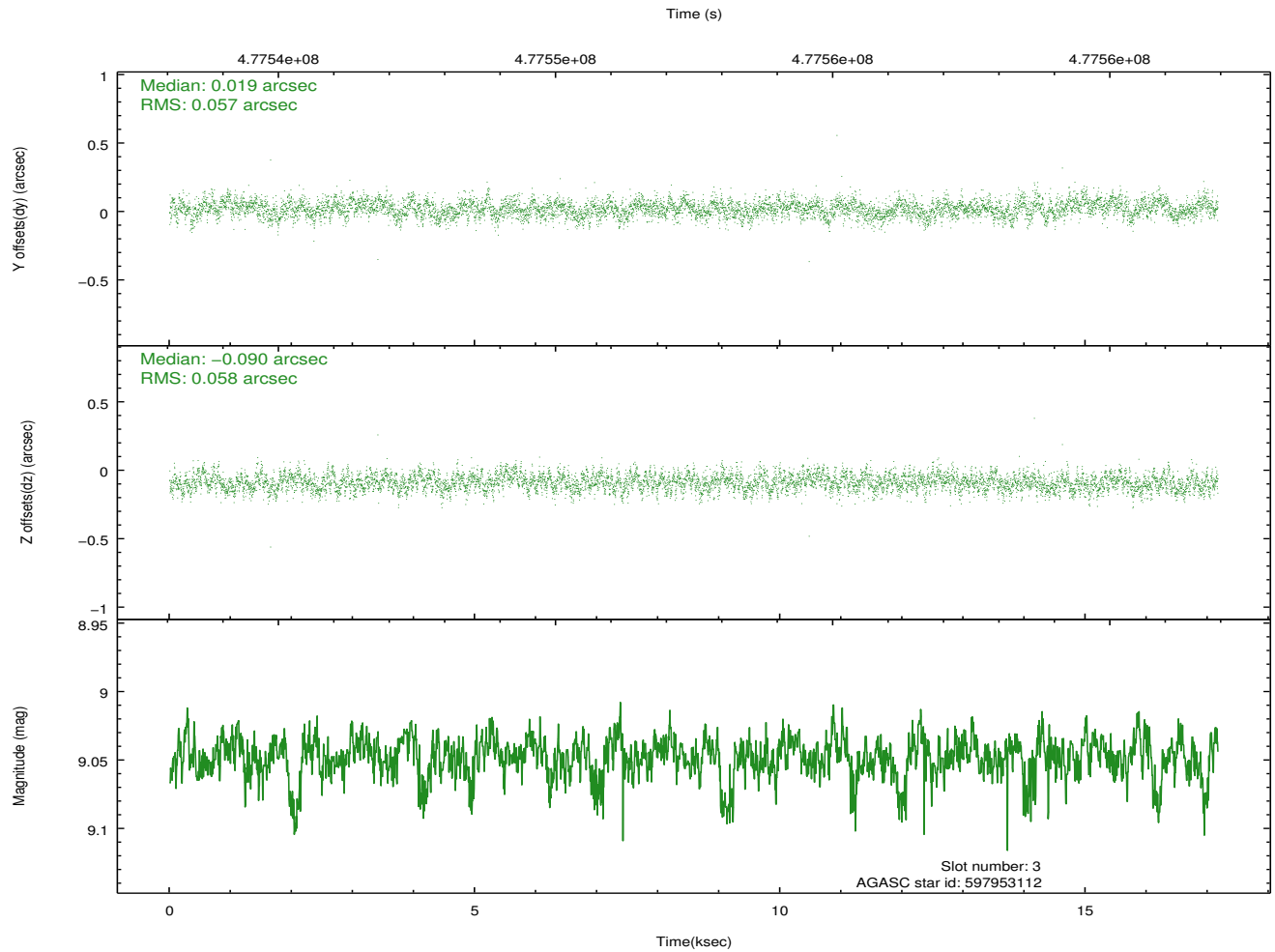
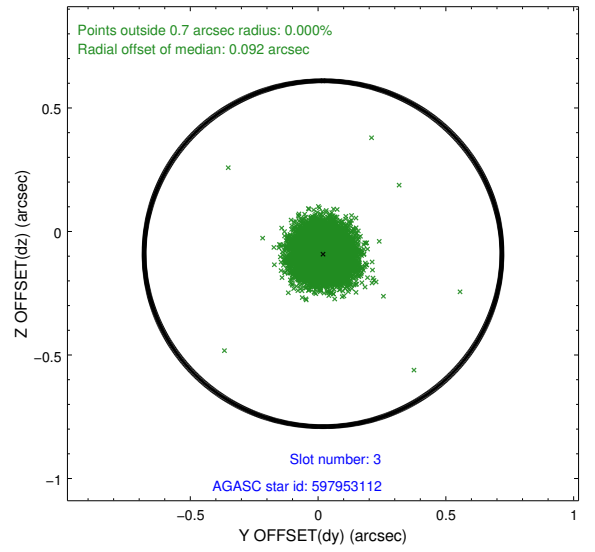
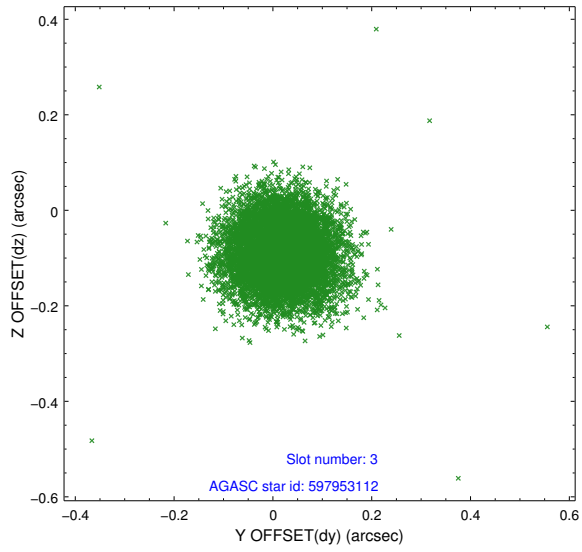
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.06	4188	0.191	-0.060	0.009	0.018	0.000000	0.000000	923.05	-1734.41
1	FID		ACIS-S-2	6.99	4188	-0.110	-0.012	0.011	0.019	0.000000	0.000000	-773.02	-1739.15
2	FID		ACIS-S-5	7.10	4188	-0.106	0.076	0.009	0.016	0.000000	0.000000	-1826.50	163.05
3	GUIDE	used	597953112	9.05	8370	0.019	-0.090	0.086	0.138	214.009845	78.760089	-2122.74	508.50
4	GUIDE	used	597956024	9.19	8329	0.039	-0.012	0.113	0.177	215.481244	79.329736	-674.82	-1257.99
5	GUIDE	used	597956800	8.99	8372	-0.041	-0.088	0.106	0.175	213.871920	79.999122	1948.36	-1315.08
6	GUIDE	used	597957536	9.32	8368	-0.079	0.105	0.100	0.164	214.978754	79.574657	265.70	-1314.67
7	GUIDE	used	597826088	9.71	8330	0.066	0.087	0.150	0.236	213.246436	79.535232	616.95	-230.12

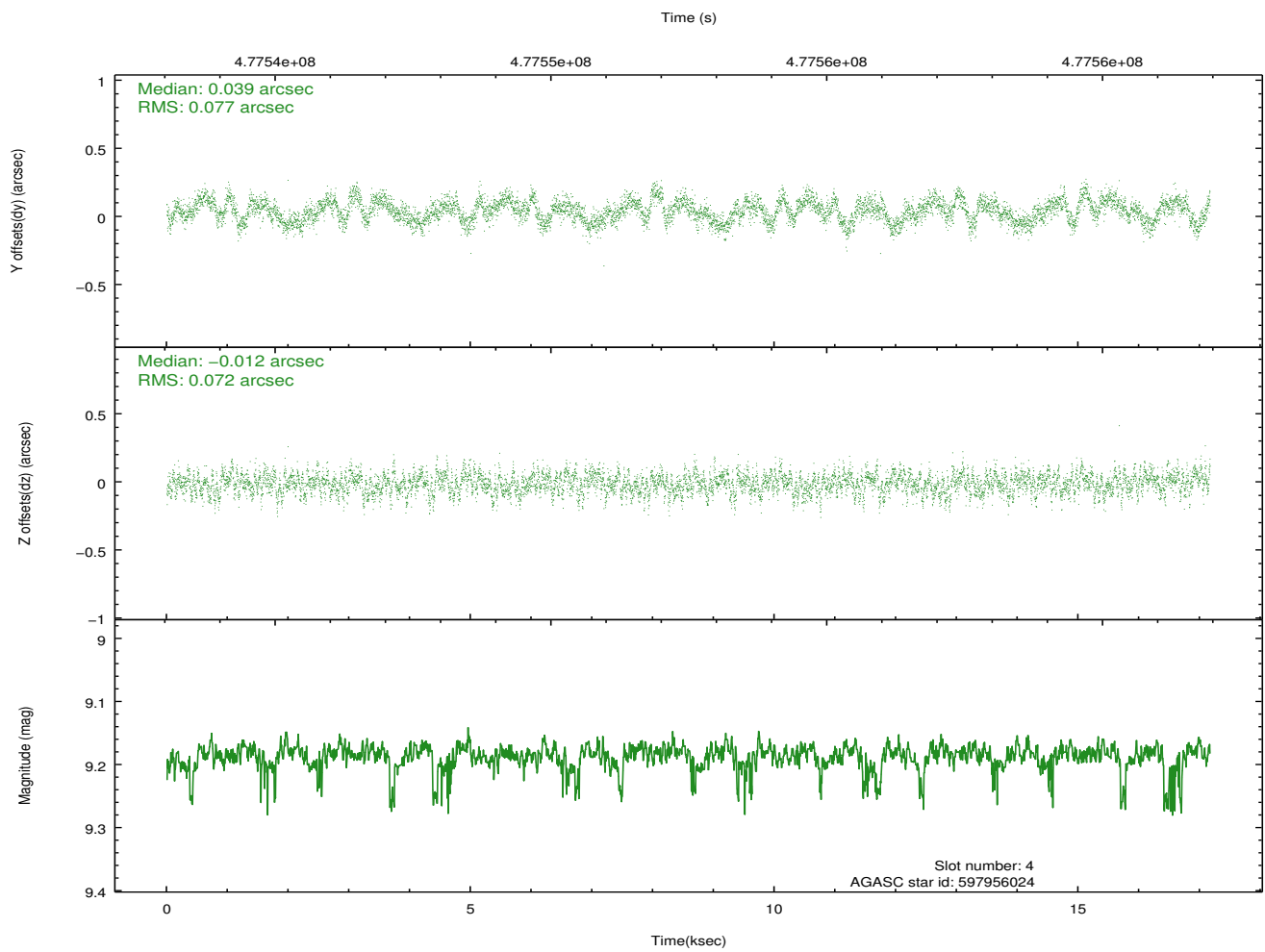
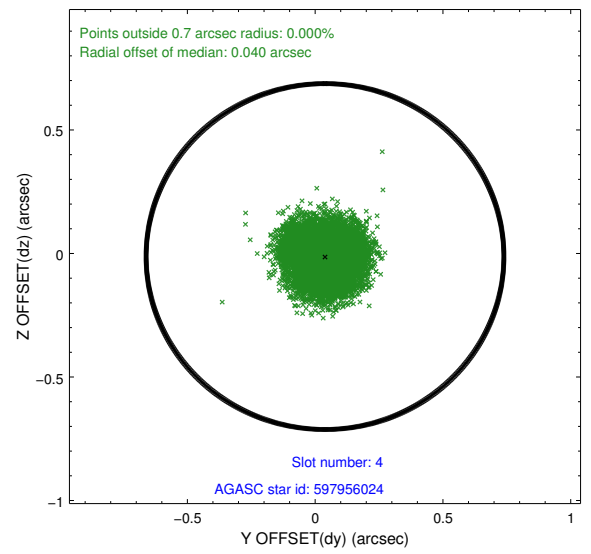
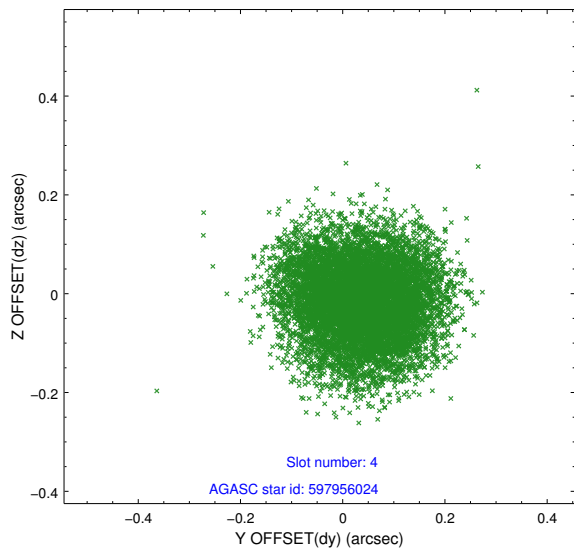
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2.4 Star Slots

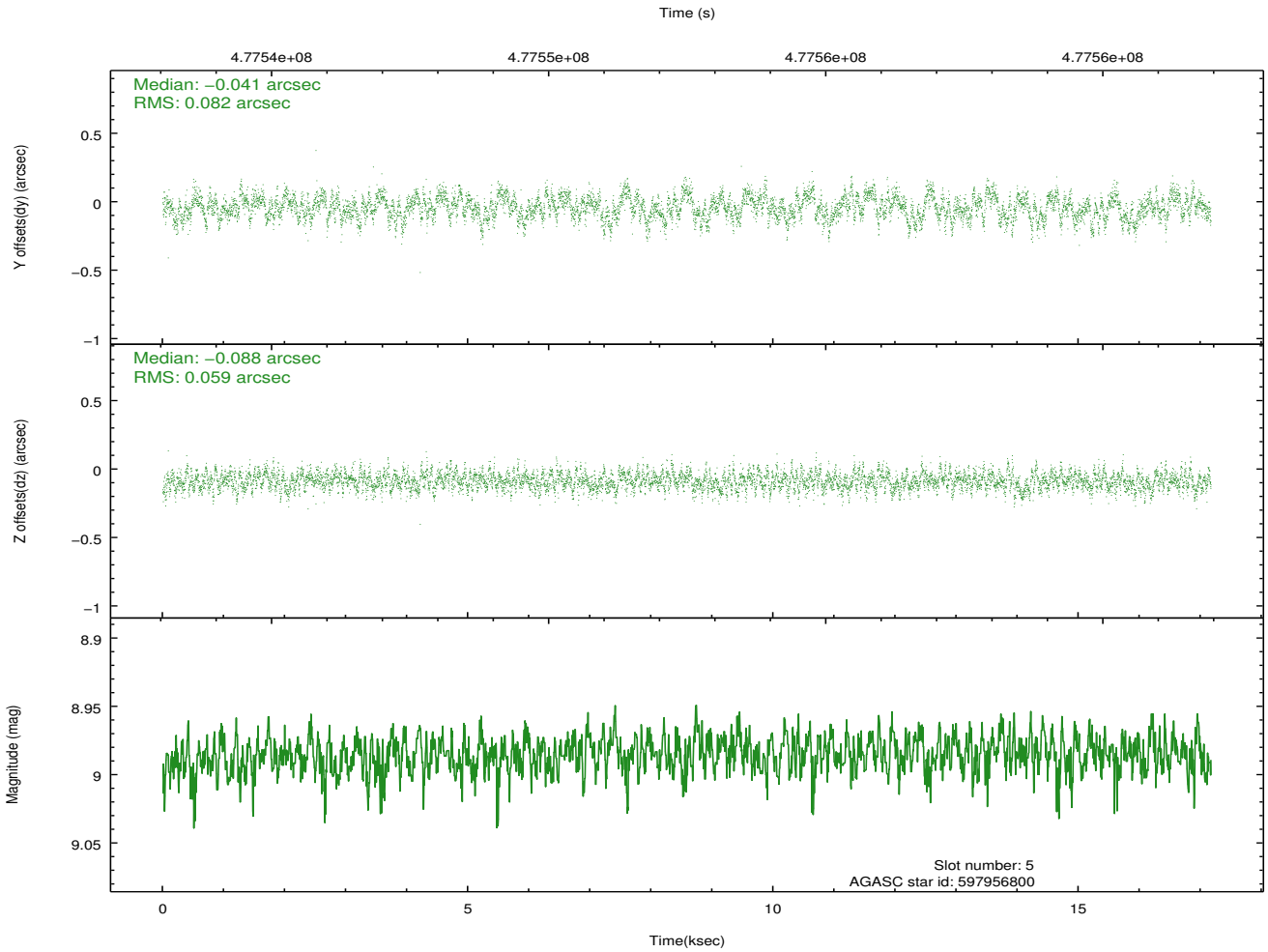
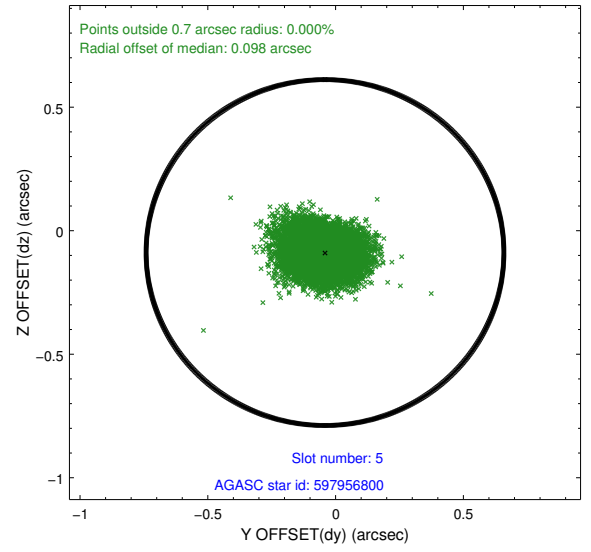
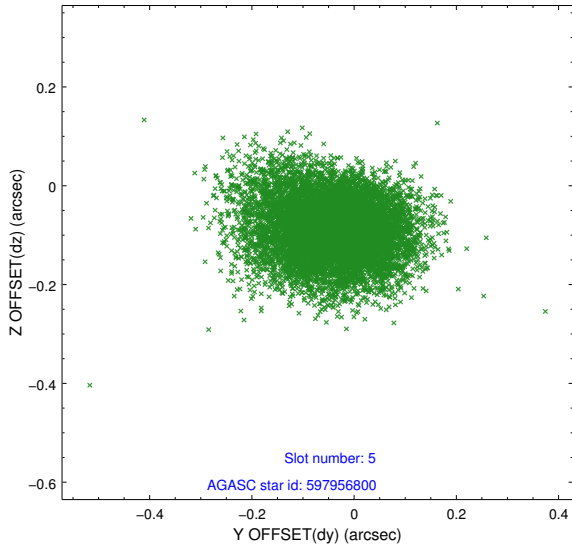
2.4.1 Slot 3



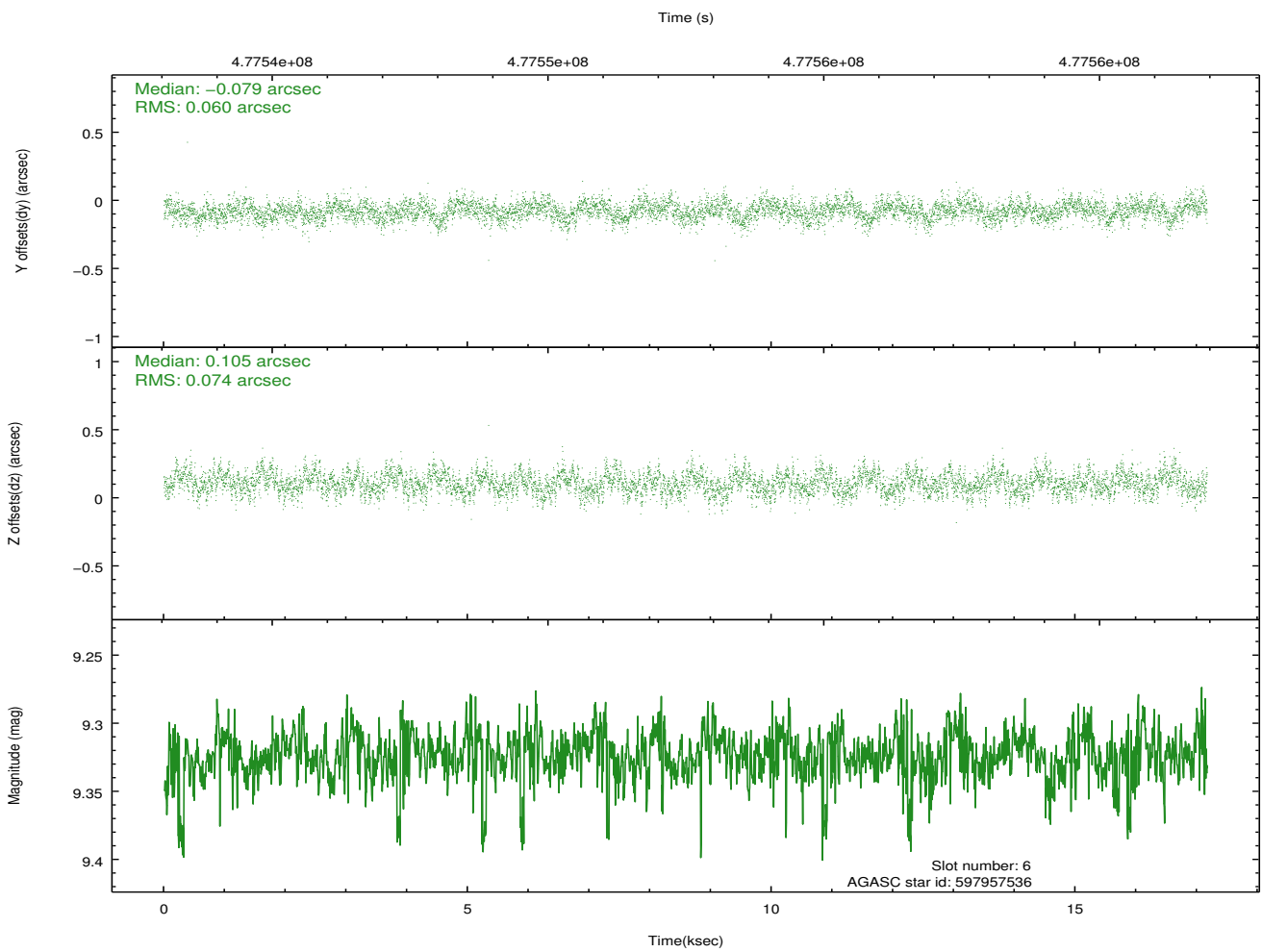
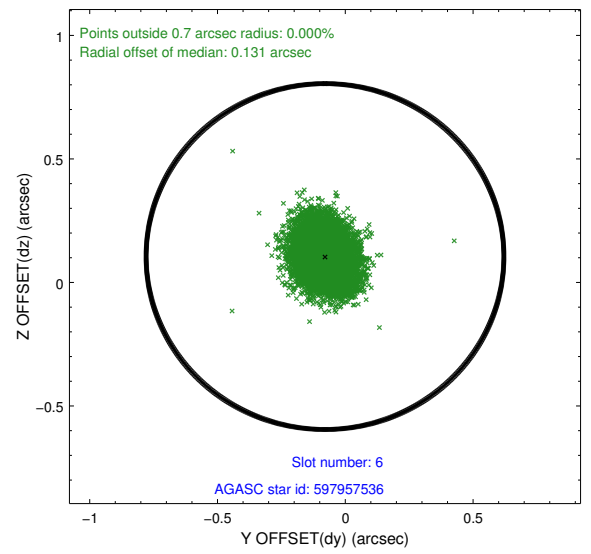
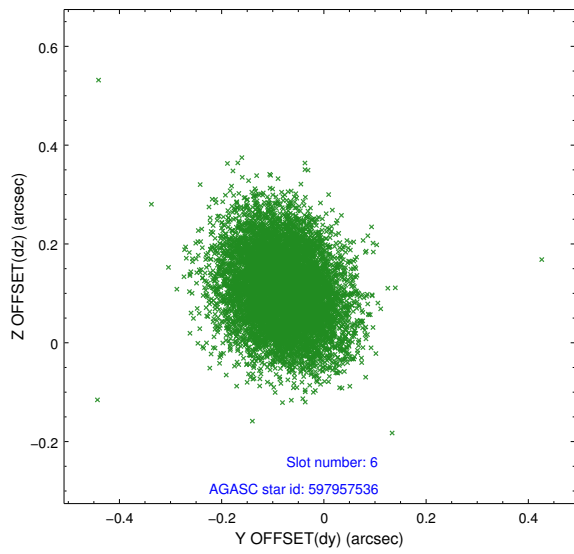
2.4.2 Slot 4



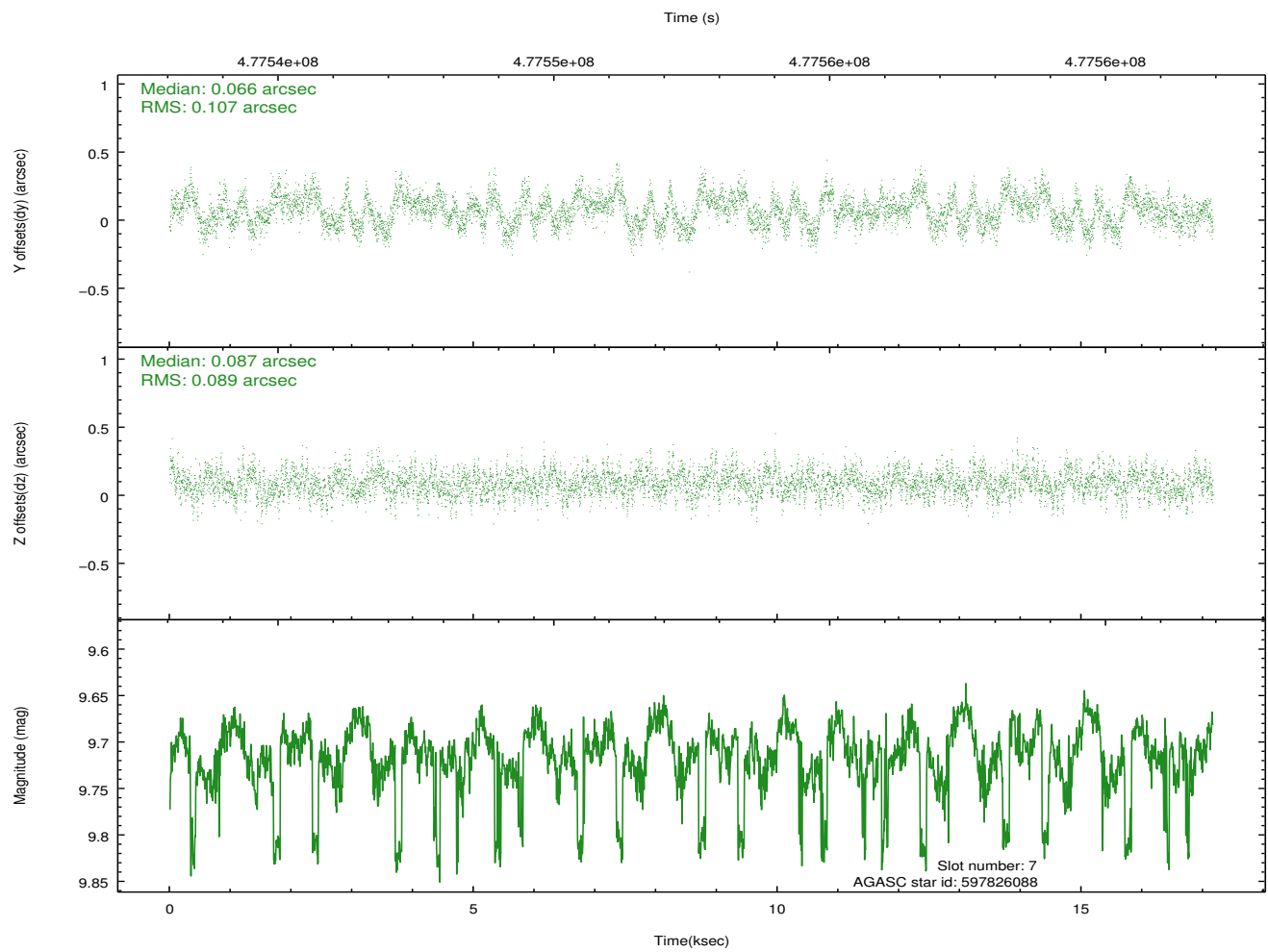
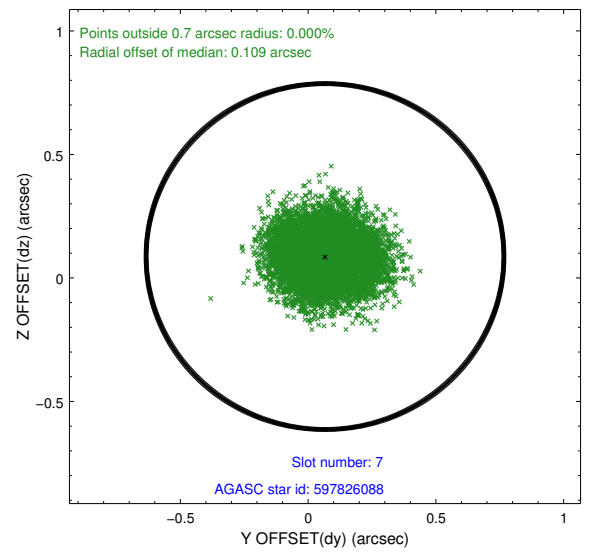
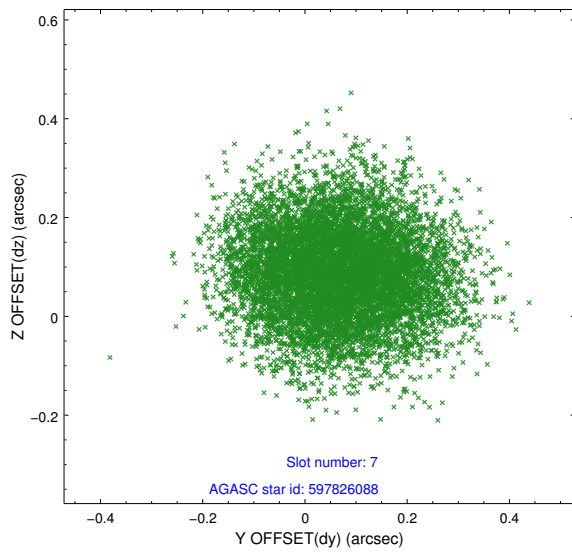
2.4.3 Slot 5



2.4.4 Slot 6

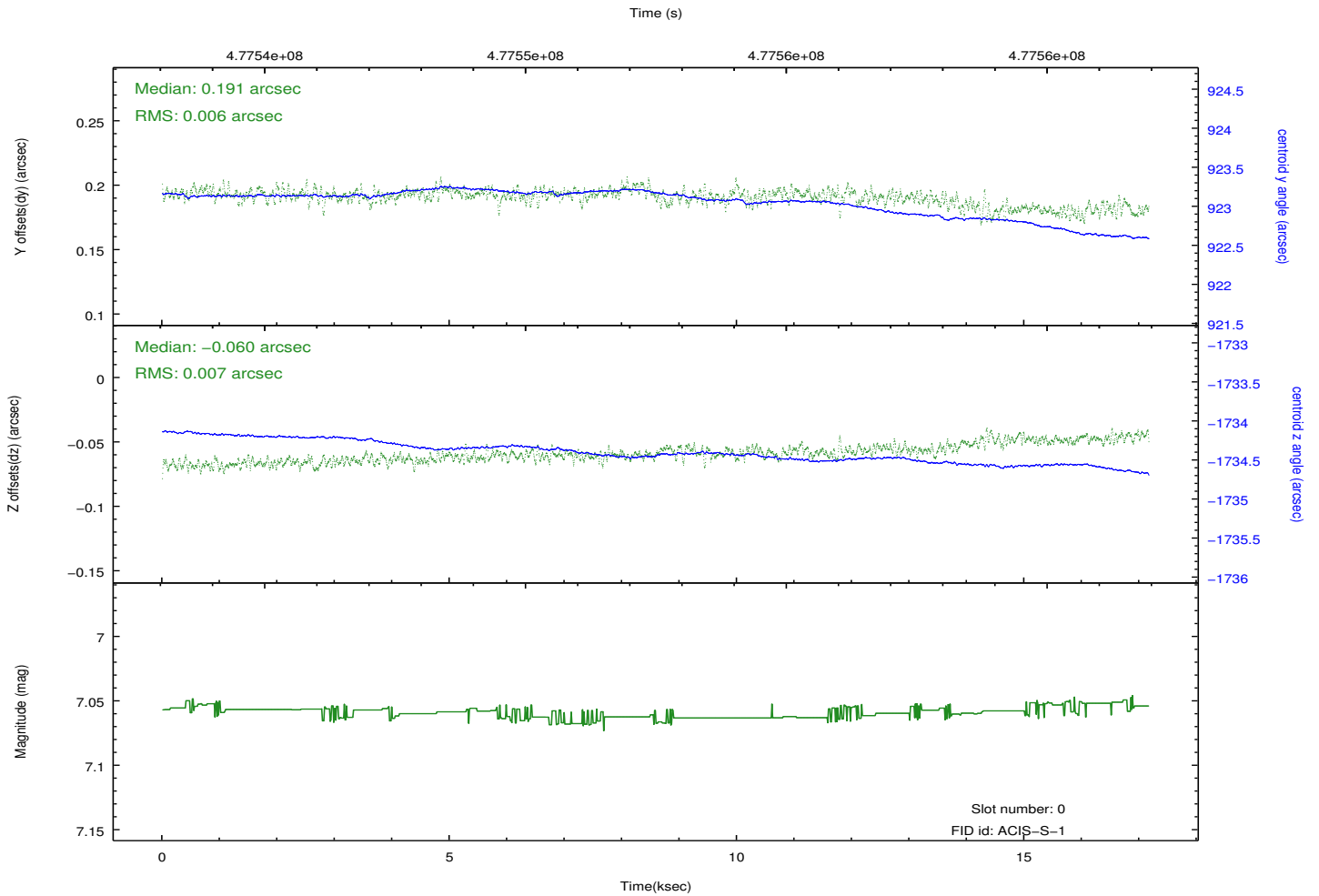
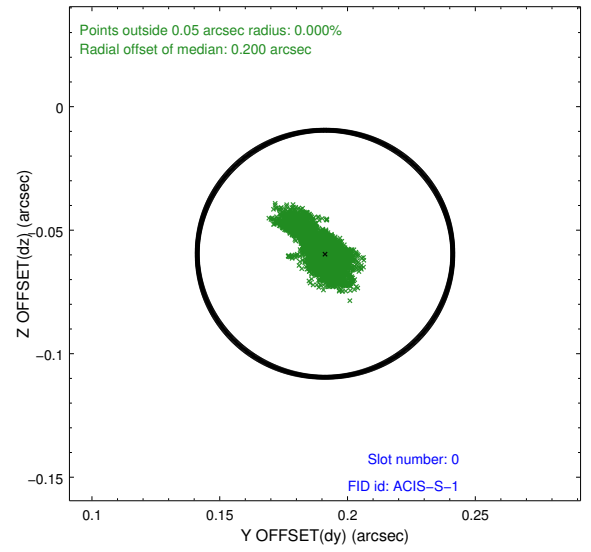
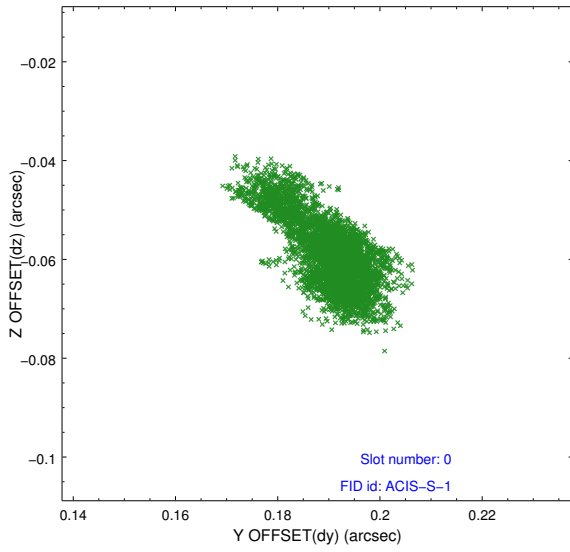


2.4.5 Slot 7

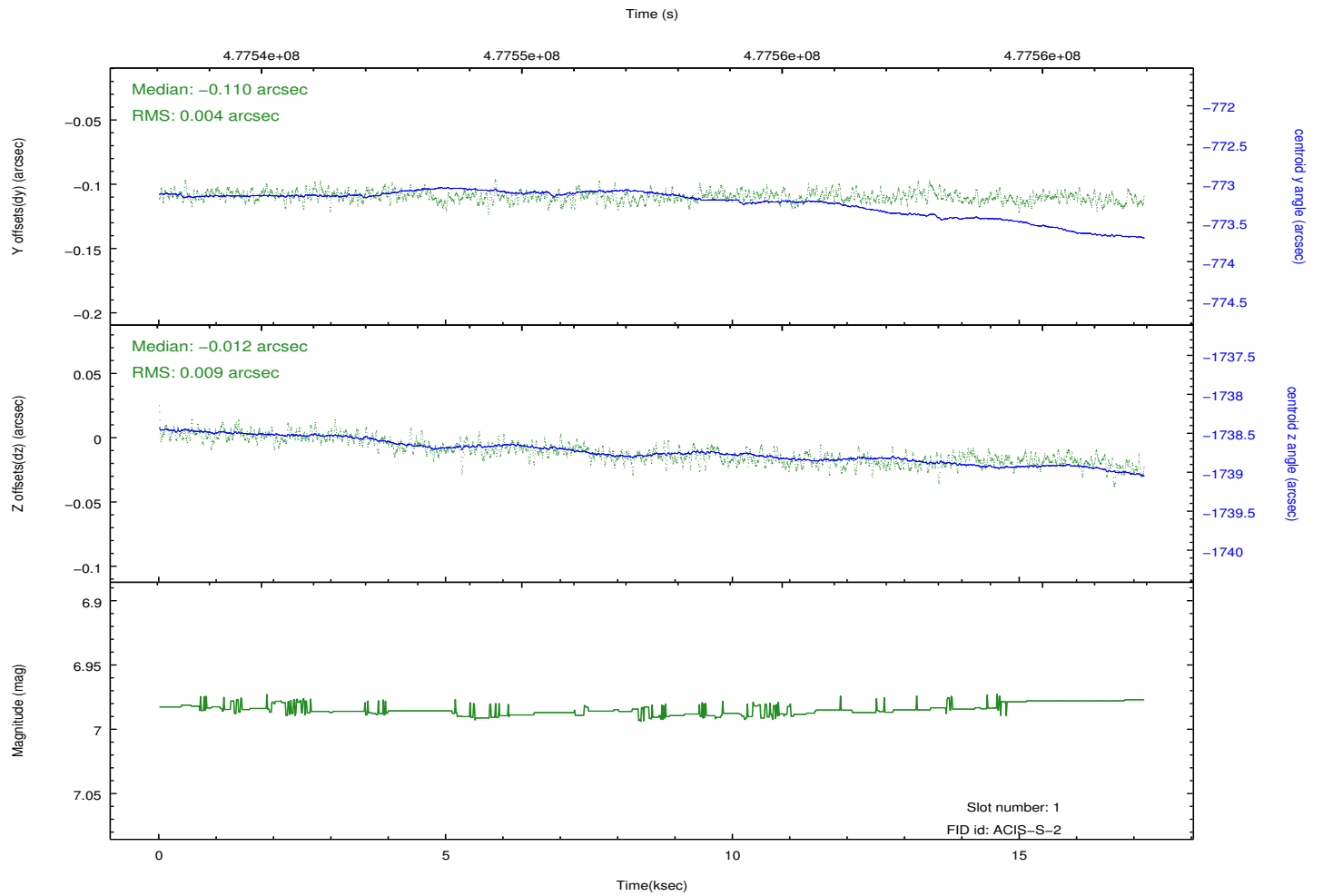
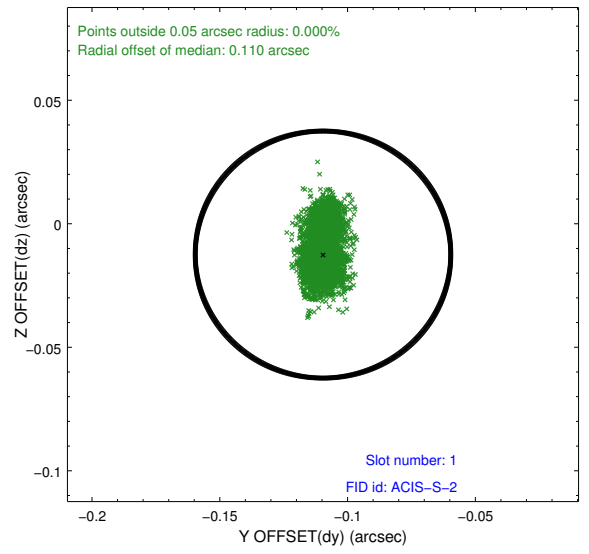
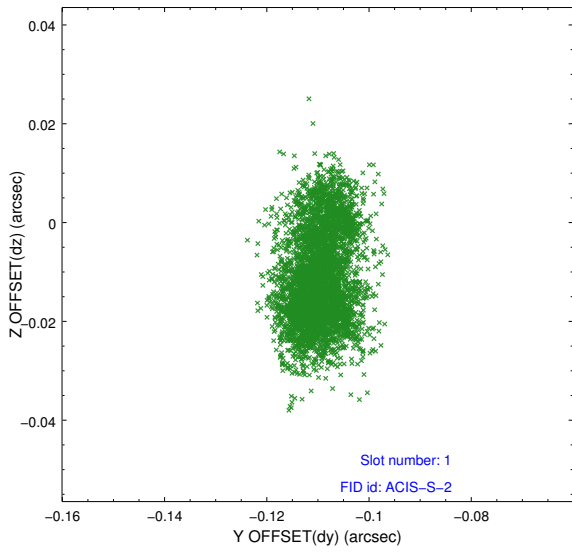


2.5 FID Slots

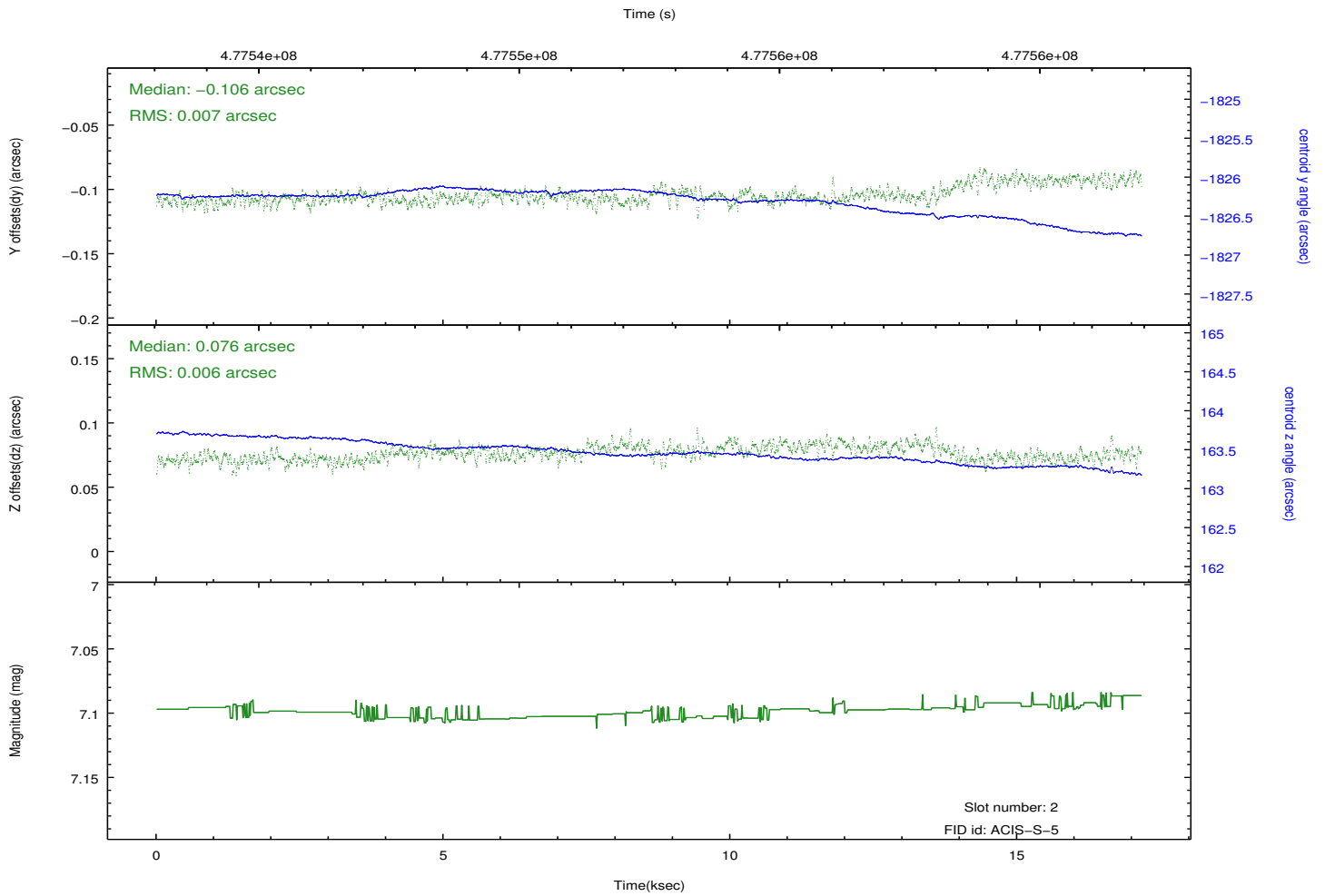
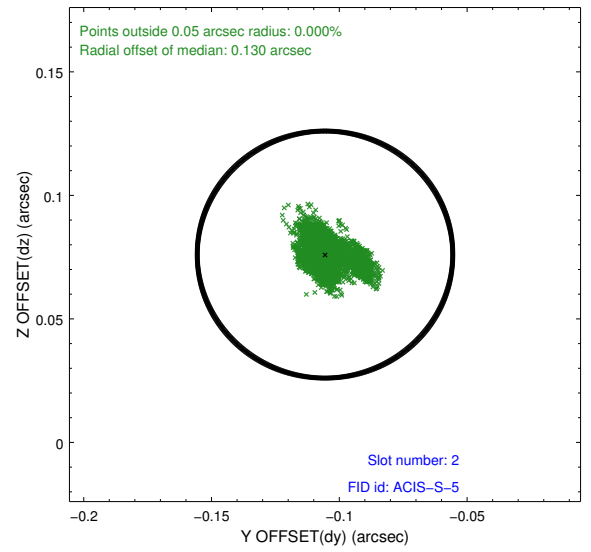
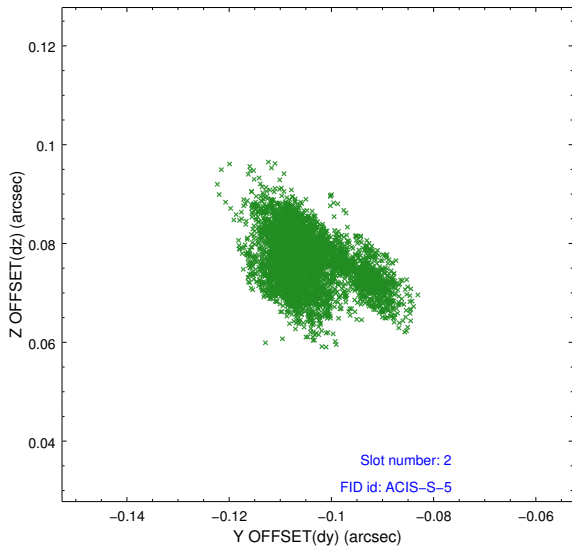
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	17.16025

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.