

V&V Reference Report

L2 ASCDS Version : 10.6.4.1

Observation 21860 - L2 Version 1
Chandra X-Ray Center

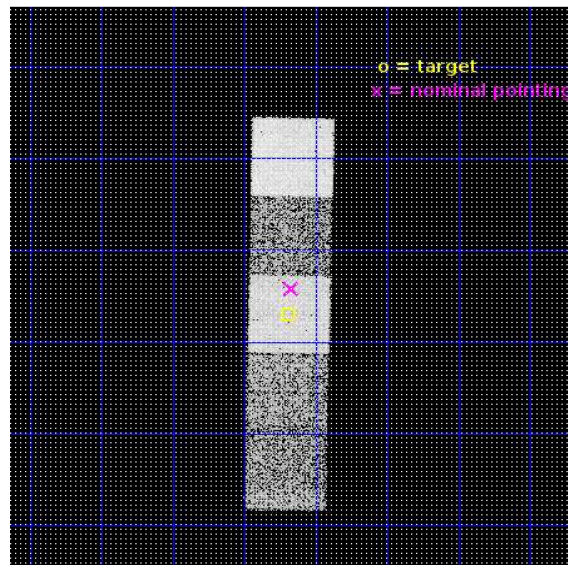
L2 Processing Date : Oct 4 2018

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1 Front

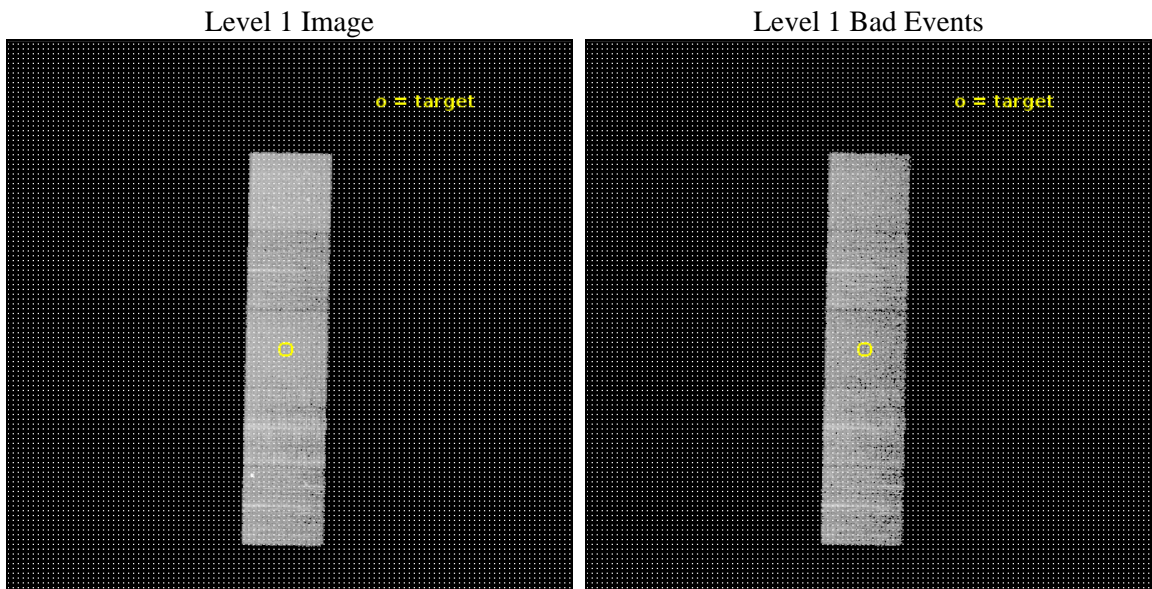
seq_num	100174	Sequence number
obs_id	21860	Observation id
title	Chandra Observations of the High-Heliospheric Latitude Comet 21P/Giacobini-Zinner	Proposal title
observer	Bradford Snios	Principal investigator
object	21P/Giacobini-Zinner	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	104.548868	Observer's specified target RA [deg]
dec_targ	-4.282594	Observer's specified target Dec [deg]
ra_nom	104.54326958015	Nominal RA [deg]
dec_nom	-4.2366463428218	Nominal Dec [deg]
roll_nom	91.15621805932	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5976.8000460863	Sum of GTIs [s]
livetime	5898.708753428	Livetime [s]
ontime5	5976.8000460863	Sum of GTIs [s]
ontime6	5976.8000460863	Sum of GTIs [s]
ontime7	5976.8000460863	Sum of GTIs [s]
ontime8	5976.8000460863	Sum of GTIs [s]
ontime9	5976.8000460863	Sum of GTIs [s]
l2events	72557	Number of level 2 events



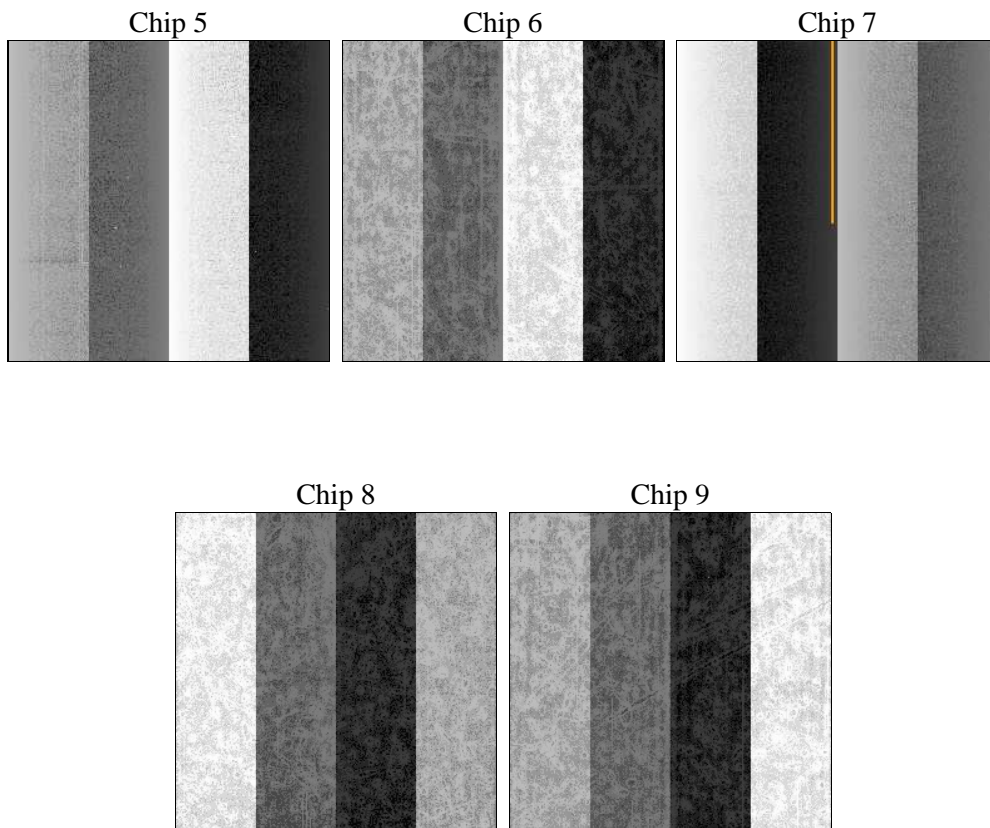
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5800.000000	[s] Scheduled observation exposure time
ascdsver	10.6.4.1	Processing system revision	ontime	5976.8000460863	Sum of GTIs [s]
caldsver	4.8.0	 	ontime5	5976.8000460863	Sum of GTIs [s]
date	2018-10-04T18:44:30	Date and time of file creation	ontime6	5976.8000460863	Sum of GTIs [s]
revision	1	Processing version of data	ontime7	5976.8000460863	Sum of GTIs [s]
			ontime8	5976.8000460863	Sum of GTIs [s]
			ontime9	5976.8000460863	Sum of GTIs [s]
			l1events	298060	Number of level 1 events

2.1.4 Events

	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	75571	47979	60712	63529	50269
rejected events	41158	42743	35698	46403	43112
rejected %	54%	89%	58%	73%	85%

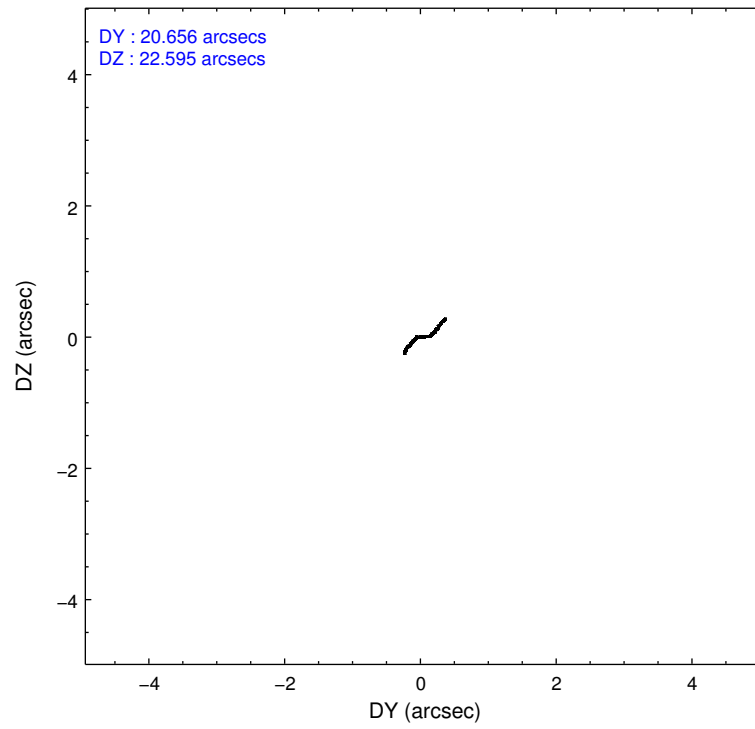
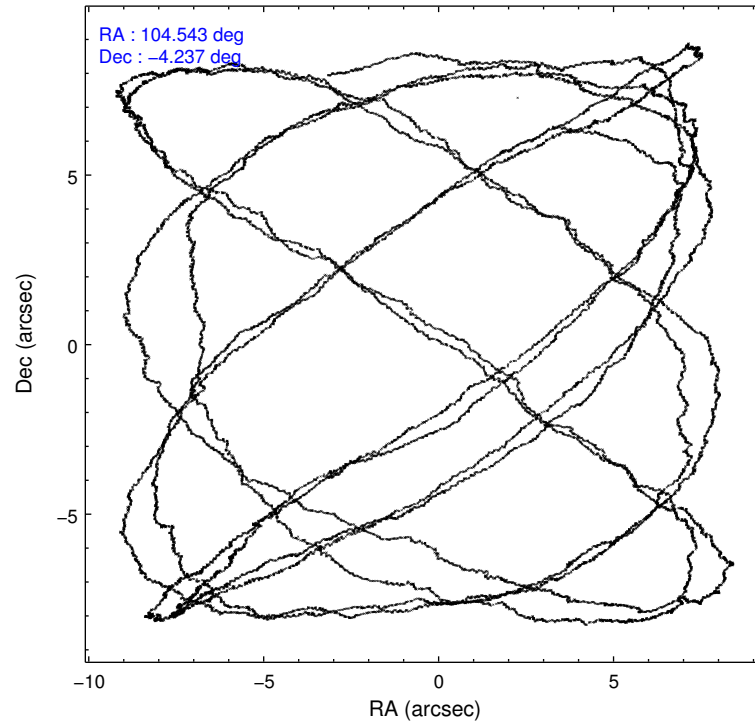
	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	2689	1851	2291	5321	3788
	3%	3%	3%	8%	7%
grade 1 events	172	17	95	52	66
	0%	0%	0%	0%	0%
grade 2 events	11354	1294	5517	4218	1329
	15%	2%	9%	6%	2%
grade 3 events	1060	516	2051	1904	604
	1%	1%	3%	2%	1%
grade 4 events	994	526	2026	1831	539
	1%	1%	3%	2%	1%
grade 5 events	5240	2151	5880	3528	2492
	6%	4%	9%	5%	4%
grade 6 events	20295	1337	14470	4737	1305
	26%	2%	23%	7%	2%
grade 7 events	33767	40287	28382	41938	40146
	44%	83%	46%	66%	79%

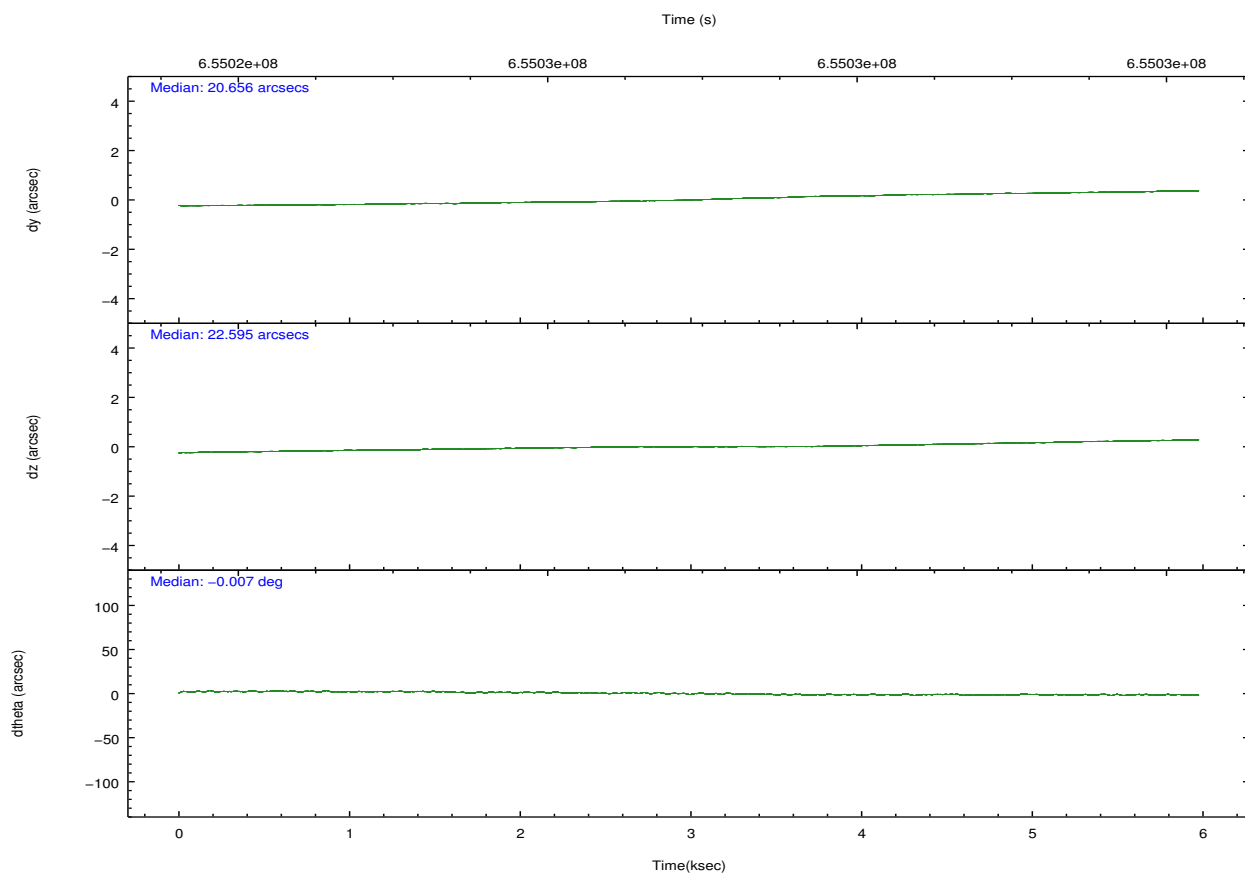
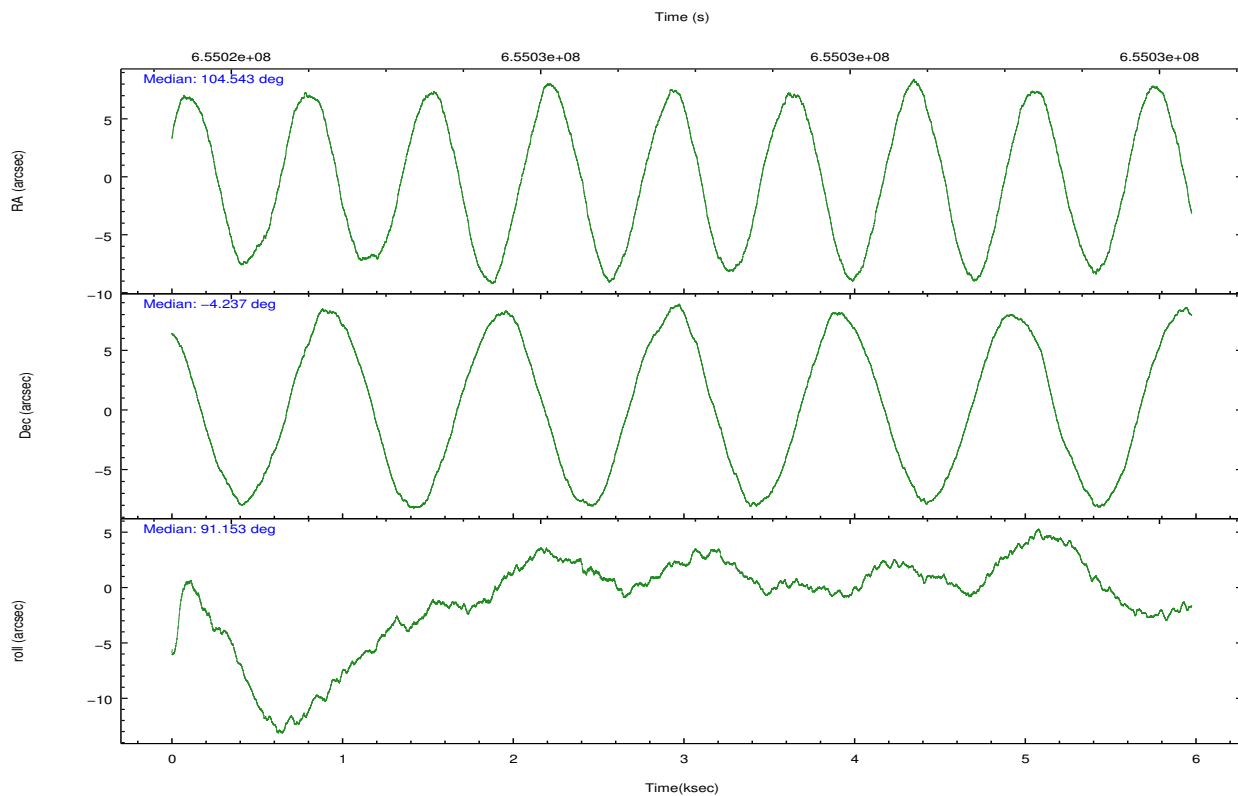
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-56789	ACIS-56789
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	104.557757	104.5432695801483
[deg] Pointing Dec	-4.259933	-4.236646342821766
[deg] Pointing Roll	91.000657	91.15621805932025
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.001444936568705701
[mm] SIM translation stage pos	-190.132523	-190.1425803651734
[mm] SIM translation stage offset	0	0.01005778216563158
[s] Observation start time (MET)	655024103.184000	655023727.4633501
Observation start date	2018-10-04T07:07:14	2018-10-04T07:02:07
[s] Observation end time (MET)	655029903.184000	655030037.3637201
Observation end date	2018-10-04T08:43:54	2018-10-04T08:47:17
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	N	N
CCD I1 on	N	N
CCD I2 on	N	N
CCD I3 on	N	N
CCD S0 on	N	N
CCD S1 on	O1	Y
CCD S2 on	Y	Y
CCD S3 on	Y	Y
CCD S4 on	Y	Y
CCD S5 on	O2	Y
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.1

2.3 Aspect



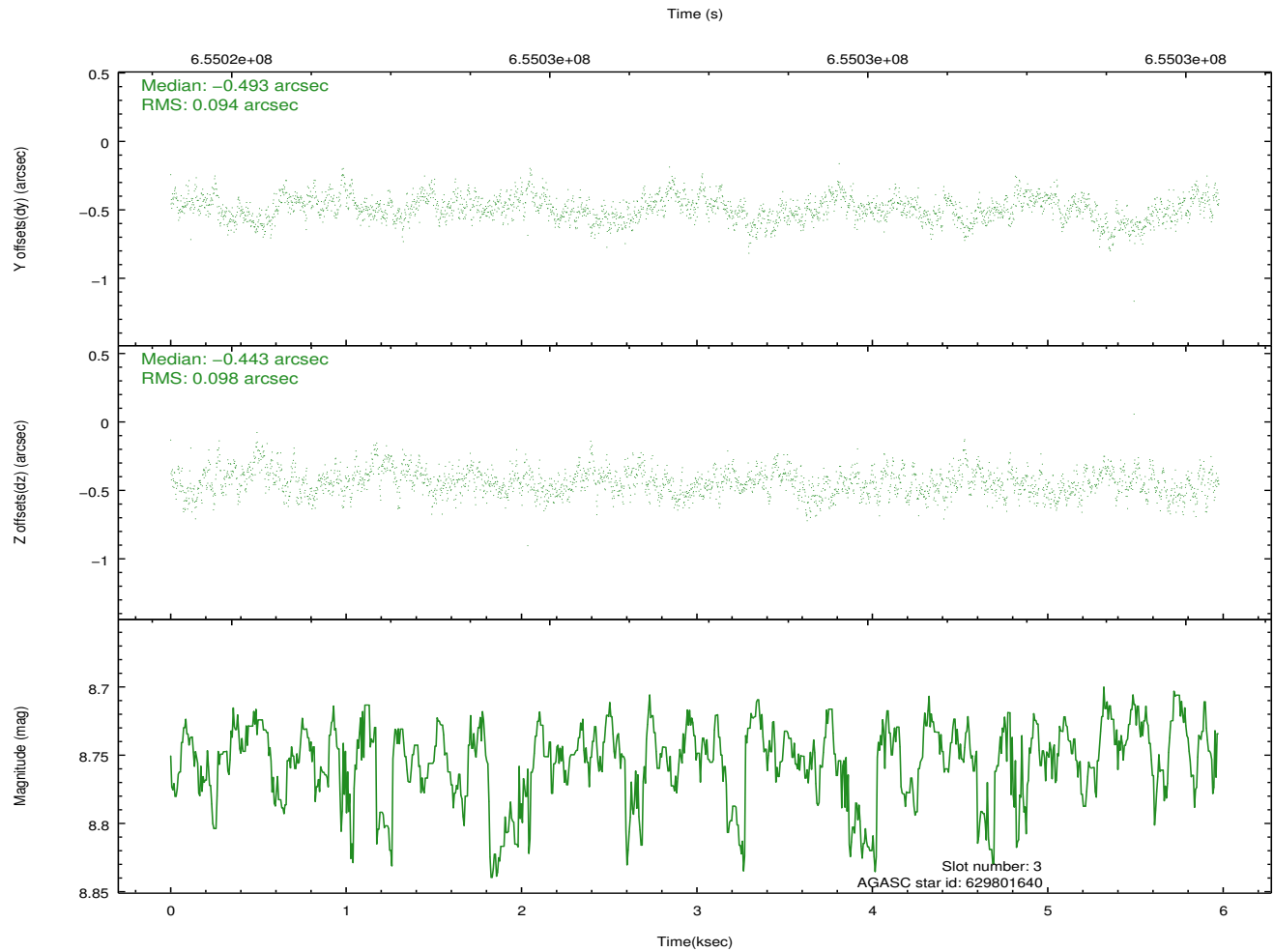
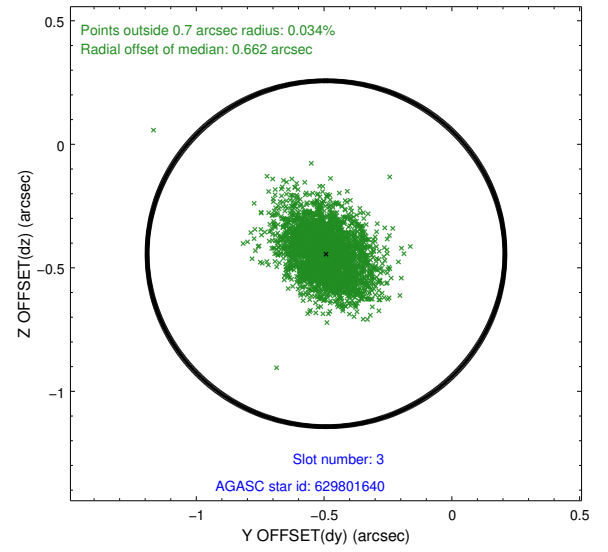
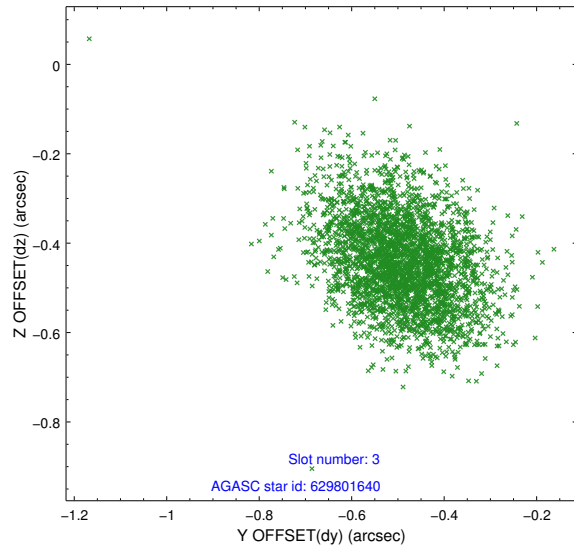


Slot Statistics

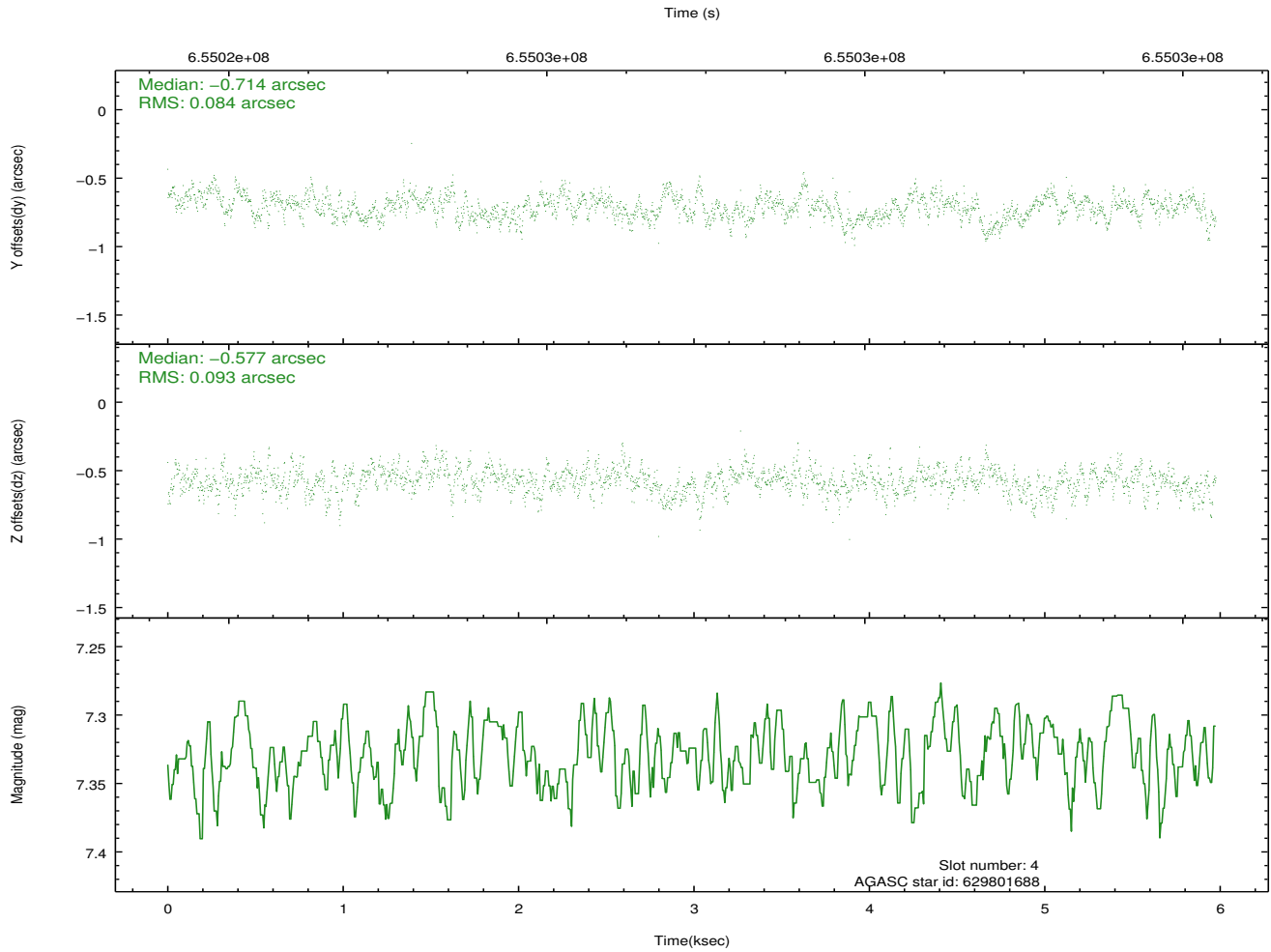
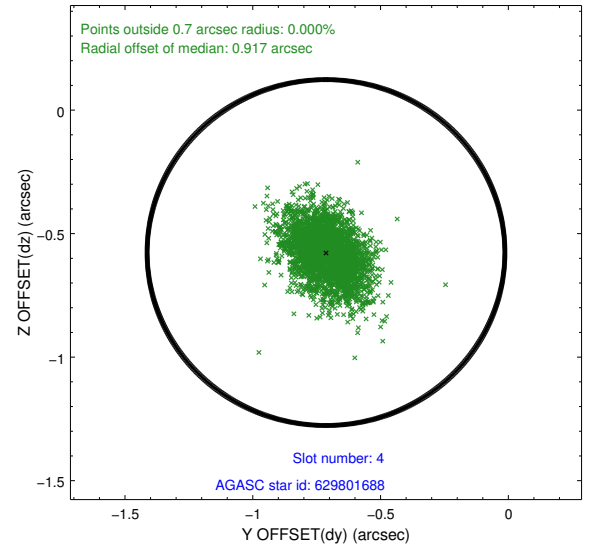
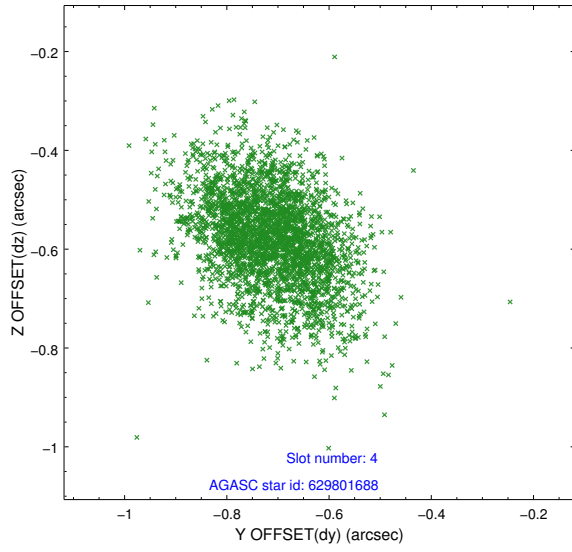
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.16	1457	1.000	0.116	-0.025	0.017	0.032	0.000000	0.000000	922.38	-1739
1	FID		ACIS-S-5	7.19	1458	1.000	-0.297	0.055	0.010	0.019	0.000000	0.000000	-1826.53	156
2	FID		ACIS-S-6	7.35	1458	1.000	0.158	-0.015	0.011	0.017	0.000000	0.000000	386.84	801
3	GUIDE	used	629801640	8.75	2916	1.000	-0.493	-0.443	0.144	0.236	104.374048	-3.697266	2036.60	624
4	GUIDE	used	629801688	7.33	2914	1.000	-0.714	-0.577	0.132	0.220	104.215078	-3.692396	2063.92	1195
5	GUIDE	used	631504920	9.22	2911	1.000	0.067	0.235	0.203	0.362	105.178942	-3.698587	1981.98	-2265
6	GUIDE	used	632039320	7.97	2914	1.000	0.500	0.344	0.129	0.217	105.061225	-4.610052	-1290.75	-1784
7	GUIDE	used	630344488	8.99	2913	1.000	0.627	0.455	0.169	0.268	104.898885	-4.799677	-1963.97	-1189

2.4 Star Slots

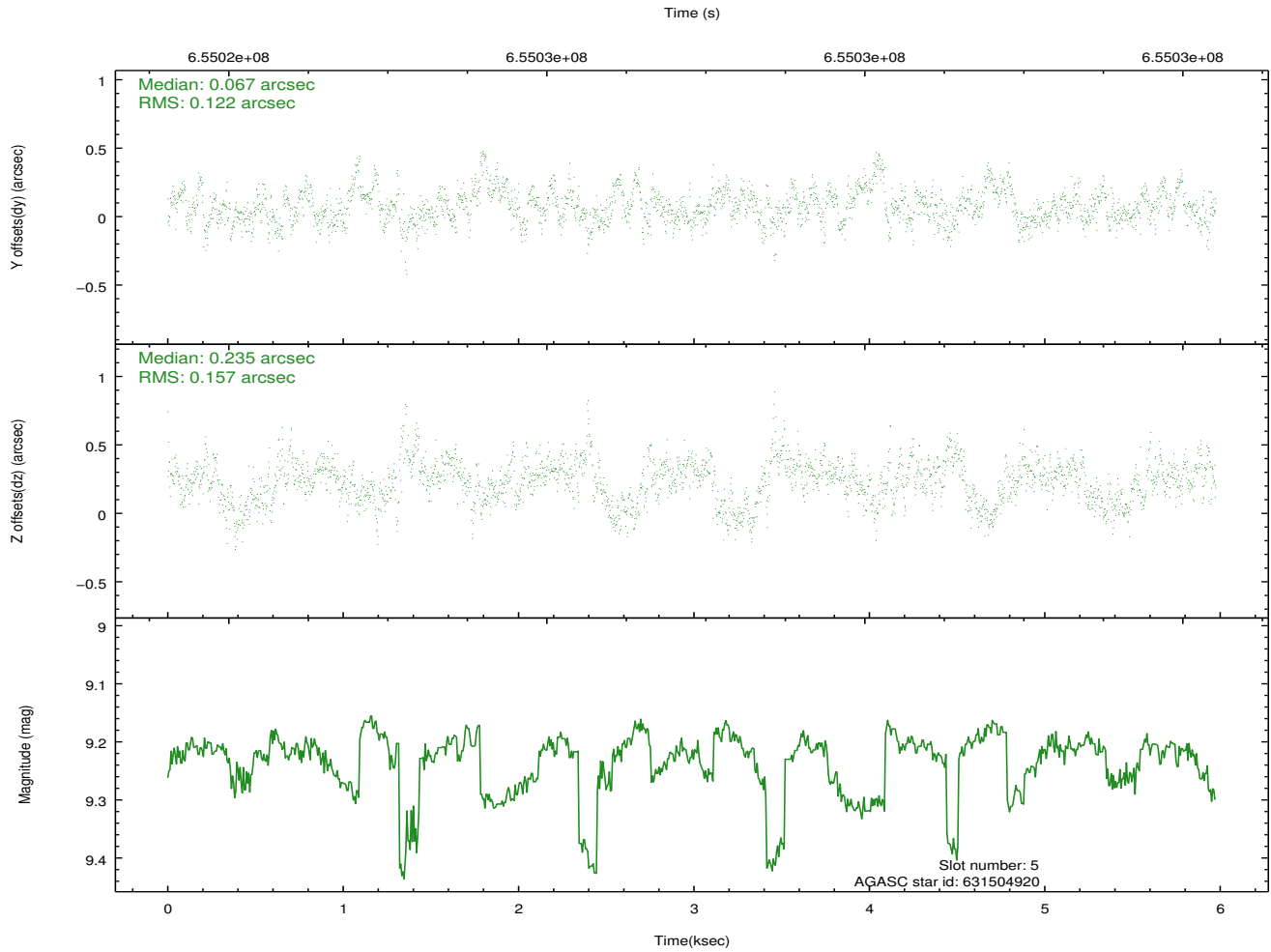
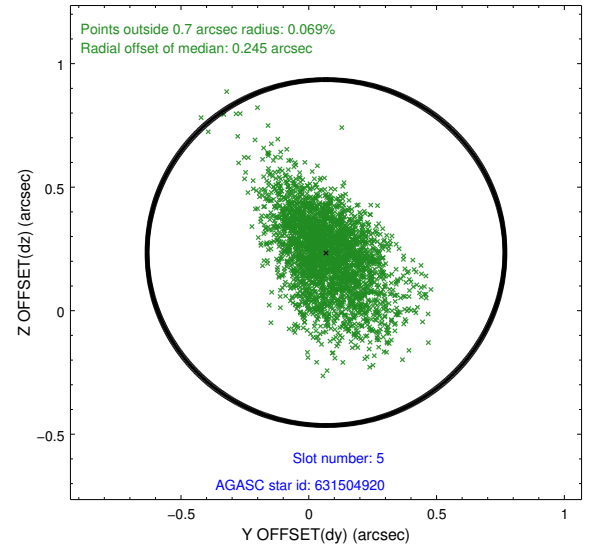
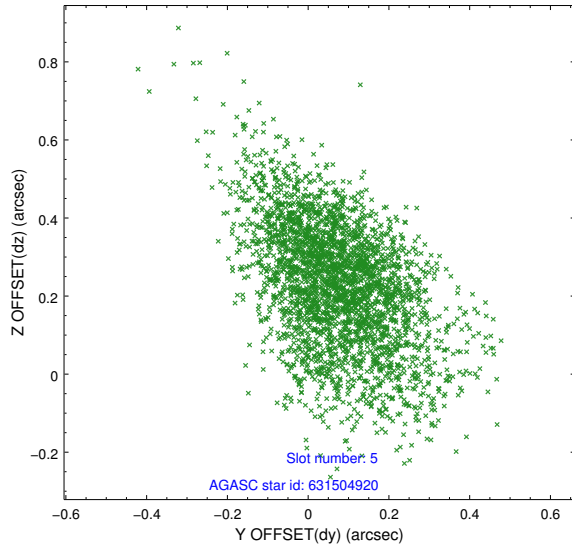
2.4.1 Slot 3



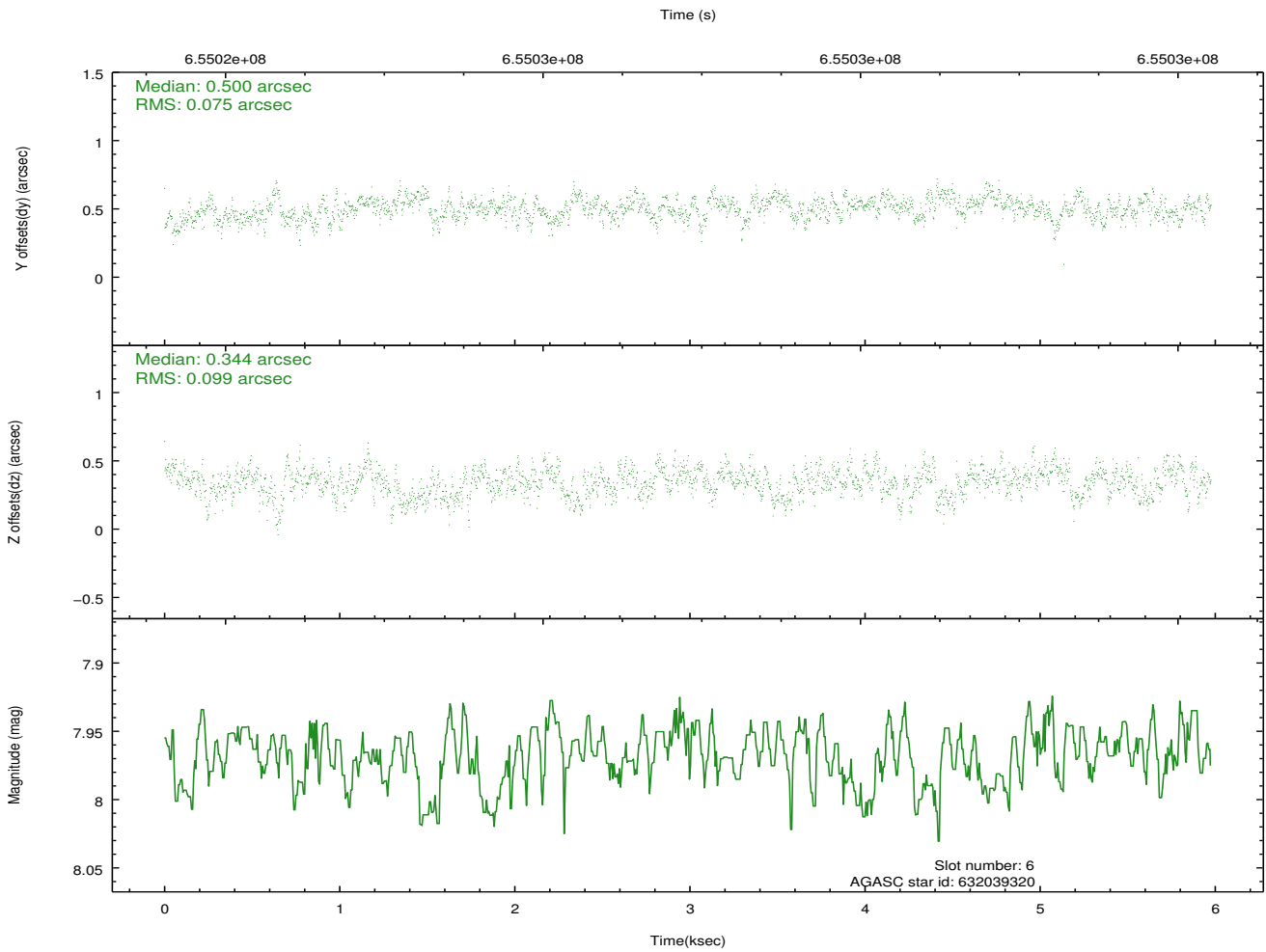
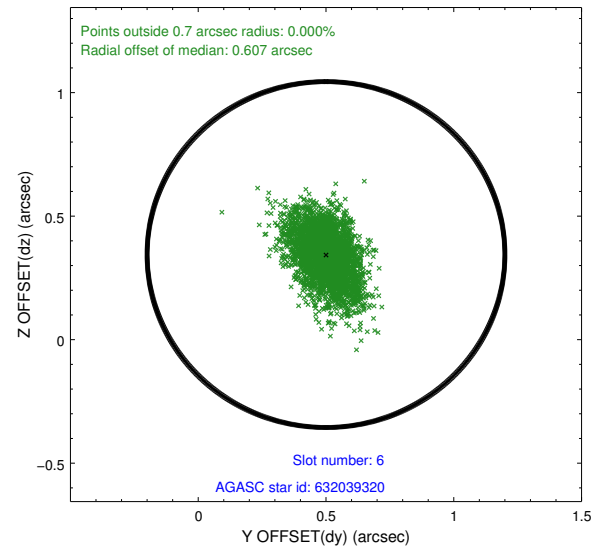
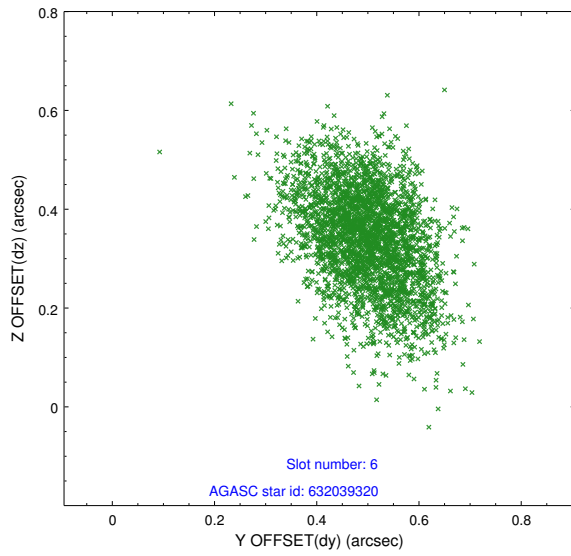
2.4.2 Slot 4



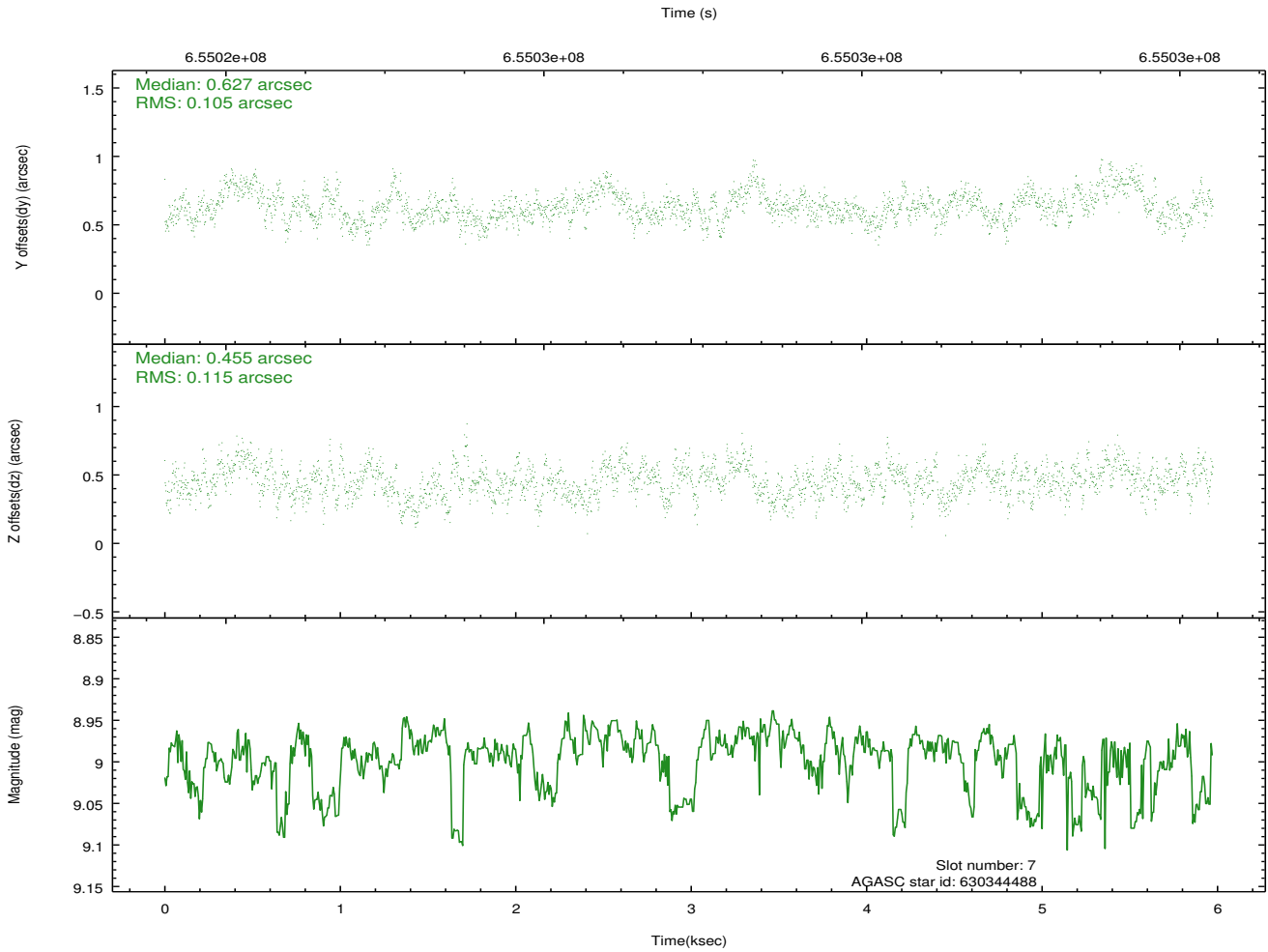
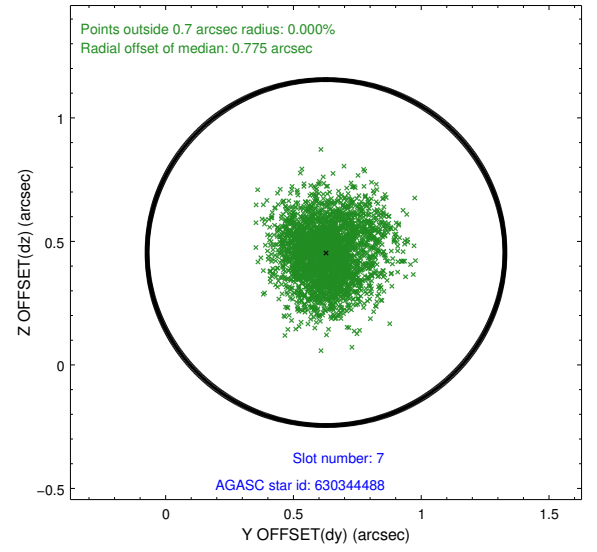
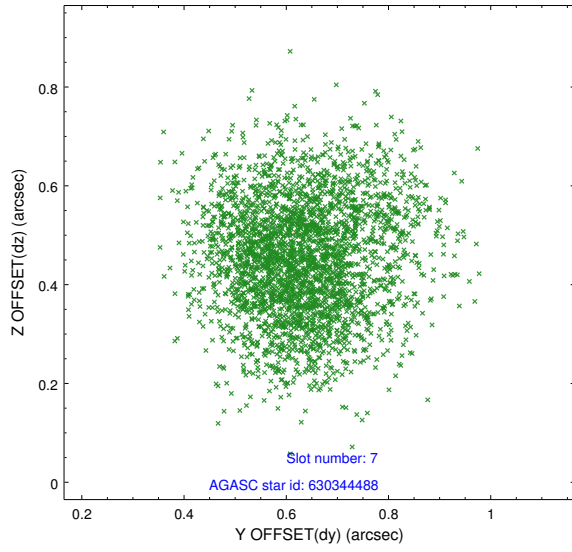
2.4.3 Slot 5



2.4.4 Slot 6

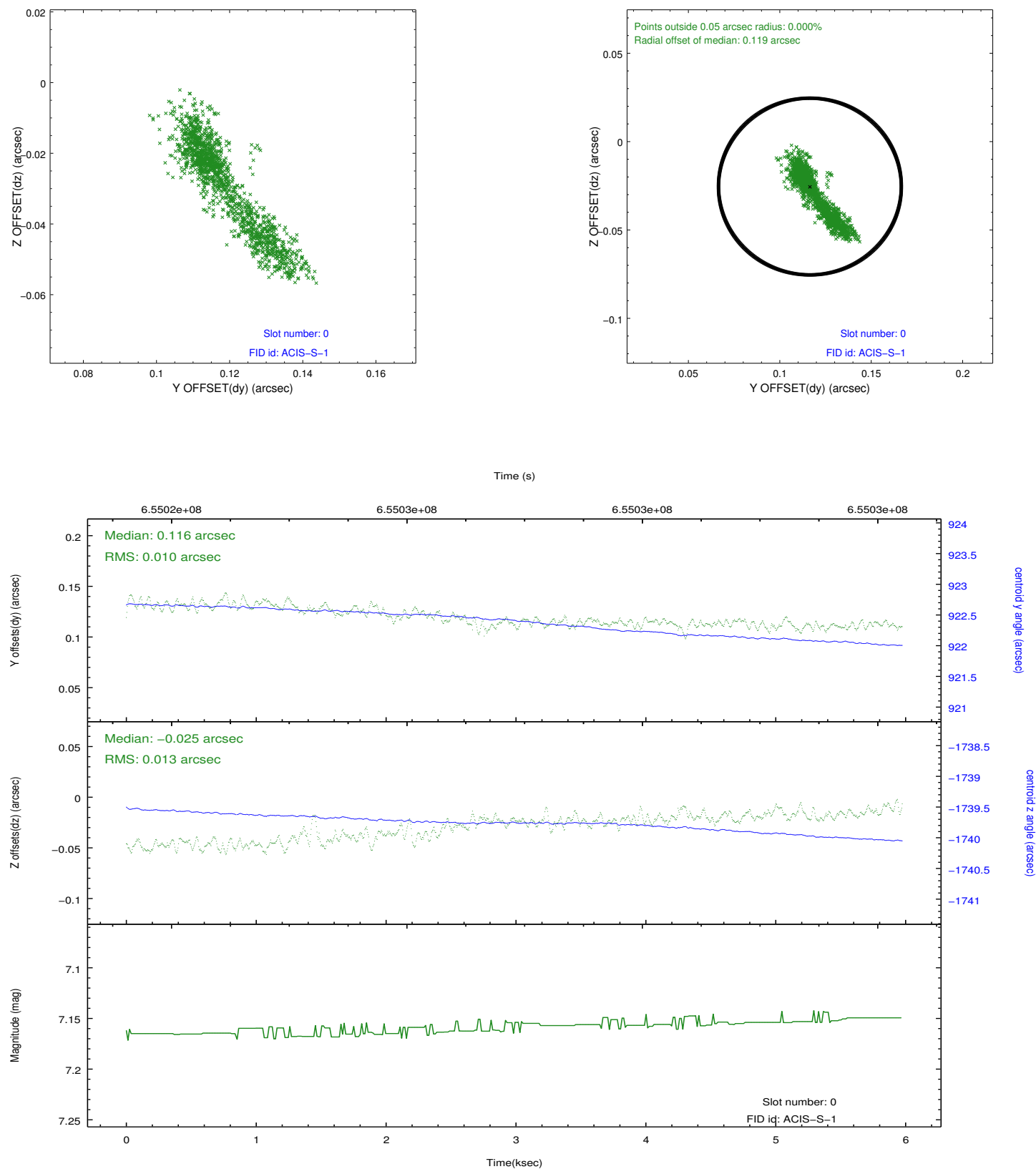


2.4.5 Slot 7

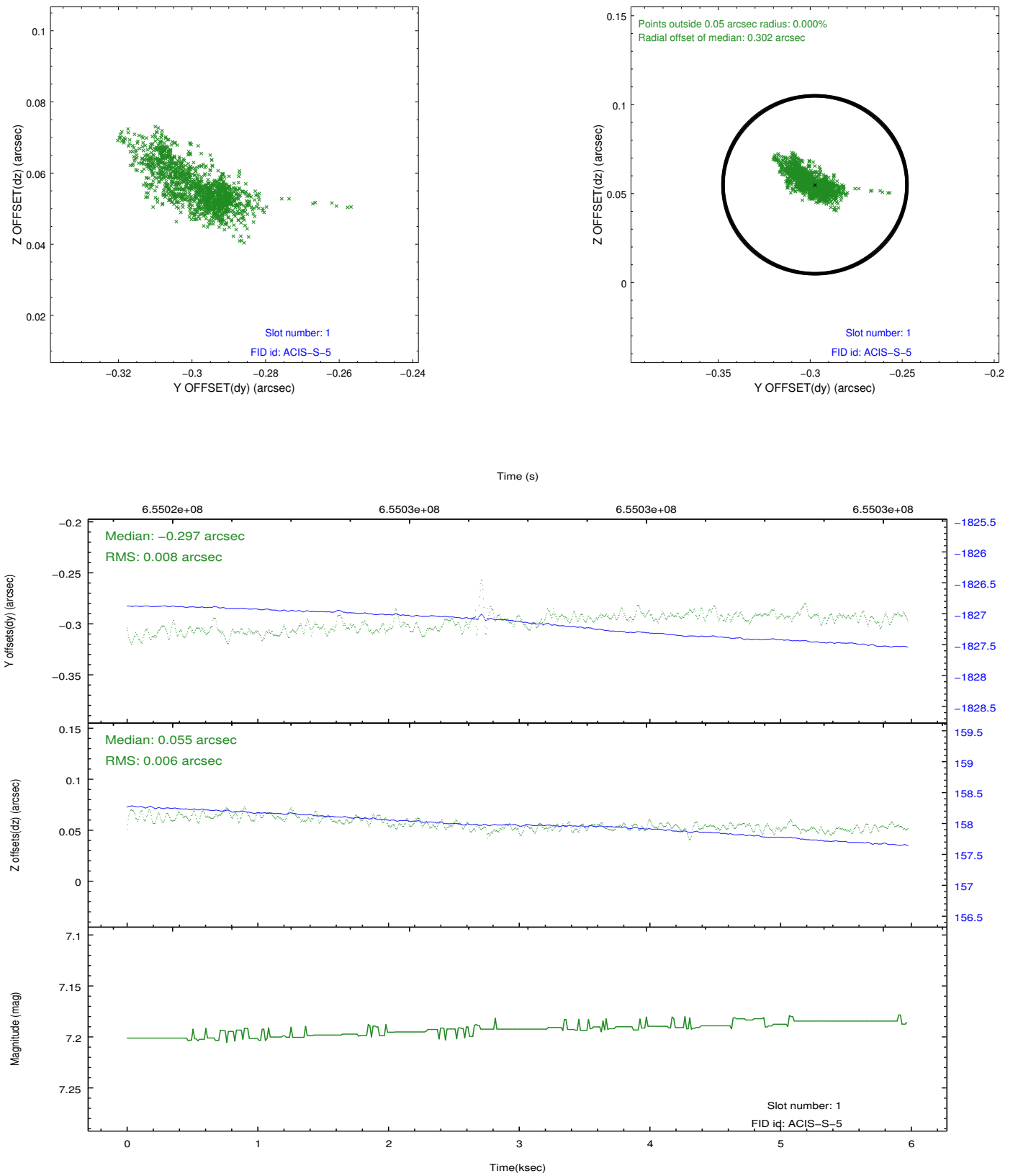


2.5 FID Slots

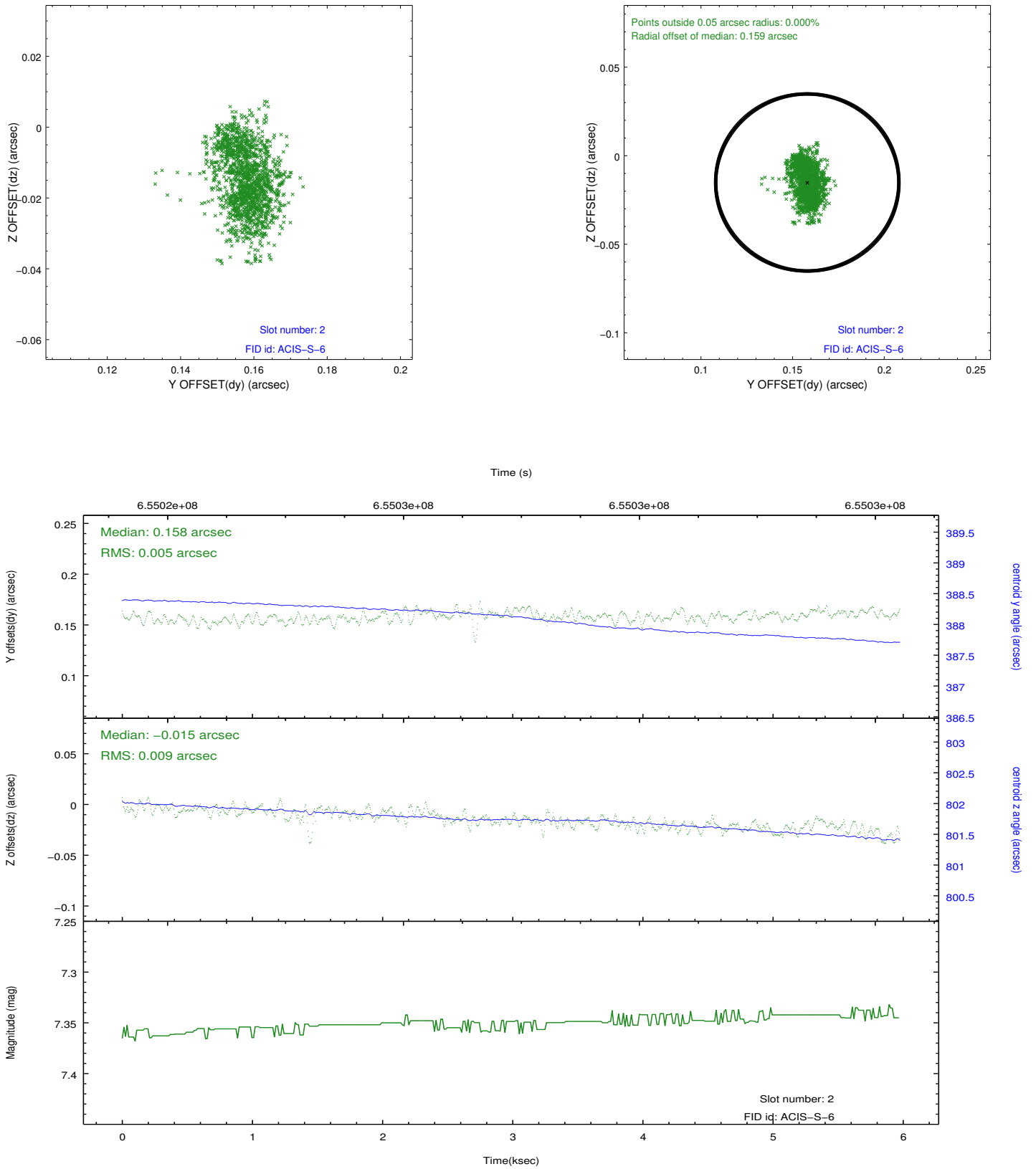
2.5.1 Slot 0



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)	2018.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.9768000460863

A.2 Comments

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.