

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19217 - L2 Version 1
Chandra X-Ray Center

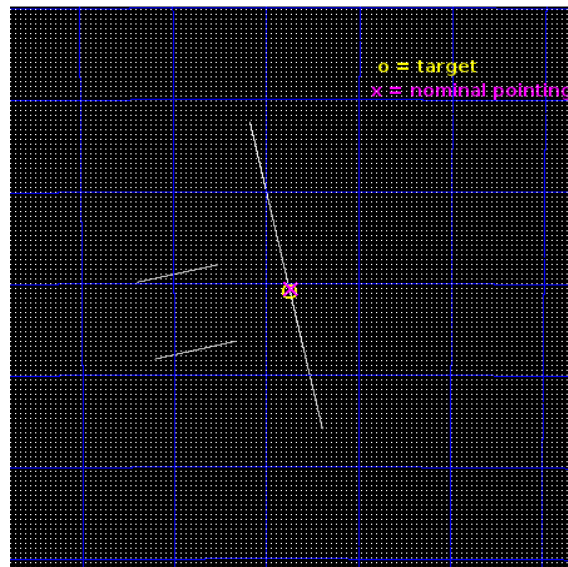
L2 Processing Date : Mar 8 2018

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	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

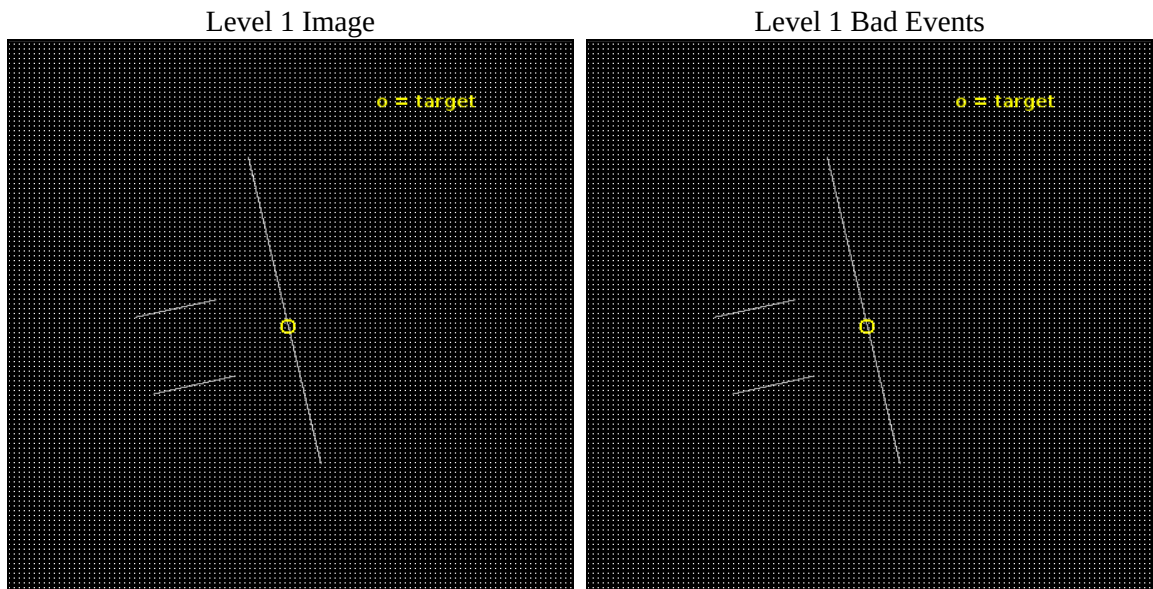
seq_num	502867	Sequence number
obs_id	19217	Observation id
title	Target-of-Opportunity Chandra Observations of Magnetars in Outburst	
observer	Victoria Kaspi	Principal investigator
object	PSR J1622-4950	Source name
ra_targ	245.686667	Observer's specified target RA [deg]
dec_targ	-49.848444	Observer's specified target Dec [deg]
ra_nom	245.68145402104	Nominal RA [deg]
dec_nom	-49.843798305416	Nominal Dec [deg]
roll_nom	77.152624441875	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20074.25	Sum of GTIs [s]
livetime	19995.834960938	Livetime [s]
ontime2	20074.25	Sum of GTIs [s]
ontime3	20074.25	Sum of GTIs [s]
ontime5	20074.25	Sum of GTIs [s]
ontime6	20074.25	Sum of GTIs [s]
ontime7	20074.25	Sum of GTIs [s]
ontime8	20074.25	Sum of GTIs [s]
l2events	290455	Number of level 2 events



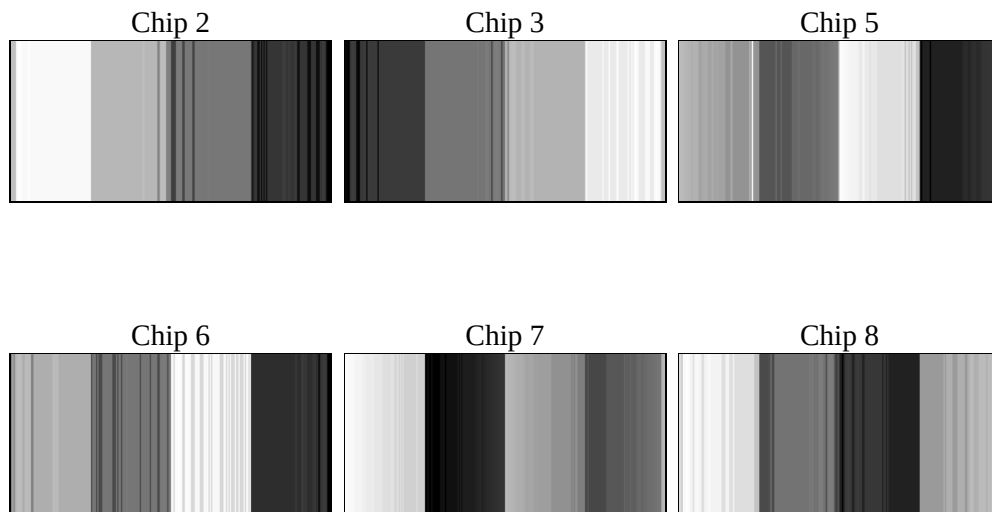
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	20074.25	Sum of GTIs [s]
caldsver	4.7.7	 	ontime2	20074.25	Sum of GTIs [s]
date	2018-03-08T14:19:17	Date and time of file creation	ontime3	20074.25	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	20074.25	Sum of GTIs [s]
			ontime6	20074.25	Sum of GTIs [s]
			ontime7	20074.25	Sum of GTIs [s]
			ontime8	20074.25	Sum of GTIs [s]
			l1events	1942751	Number of level 1 events

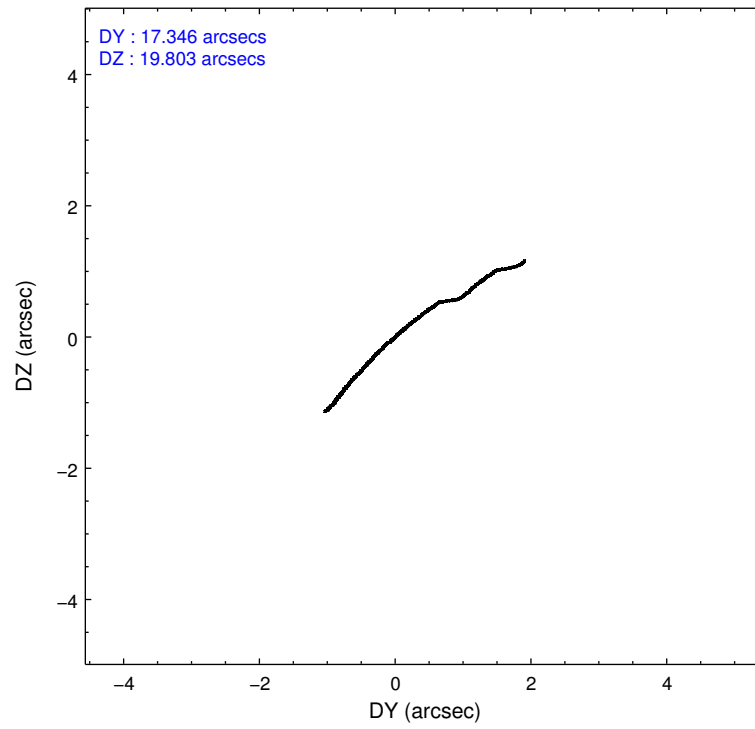
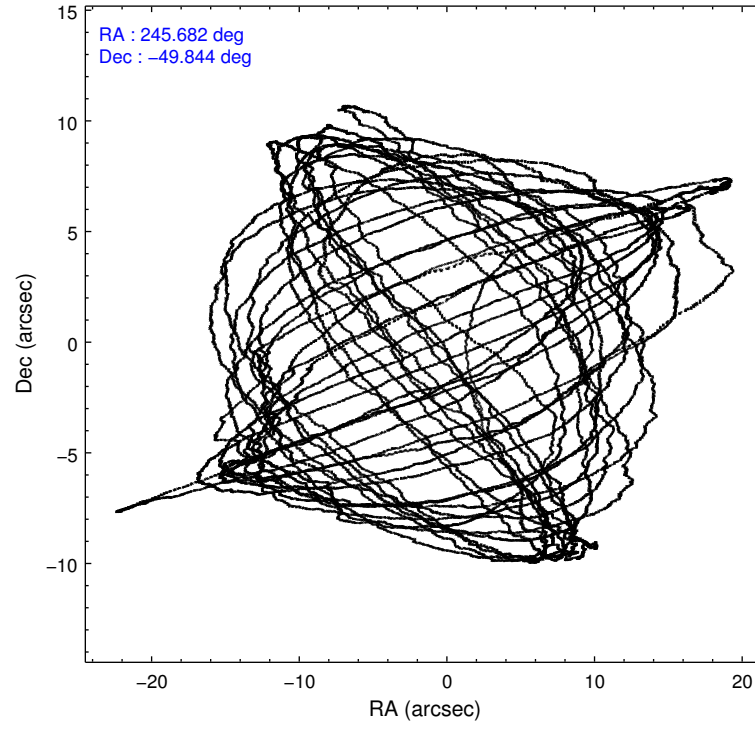
2.1.4 Events

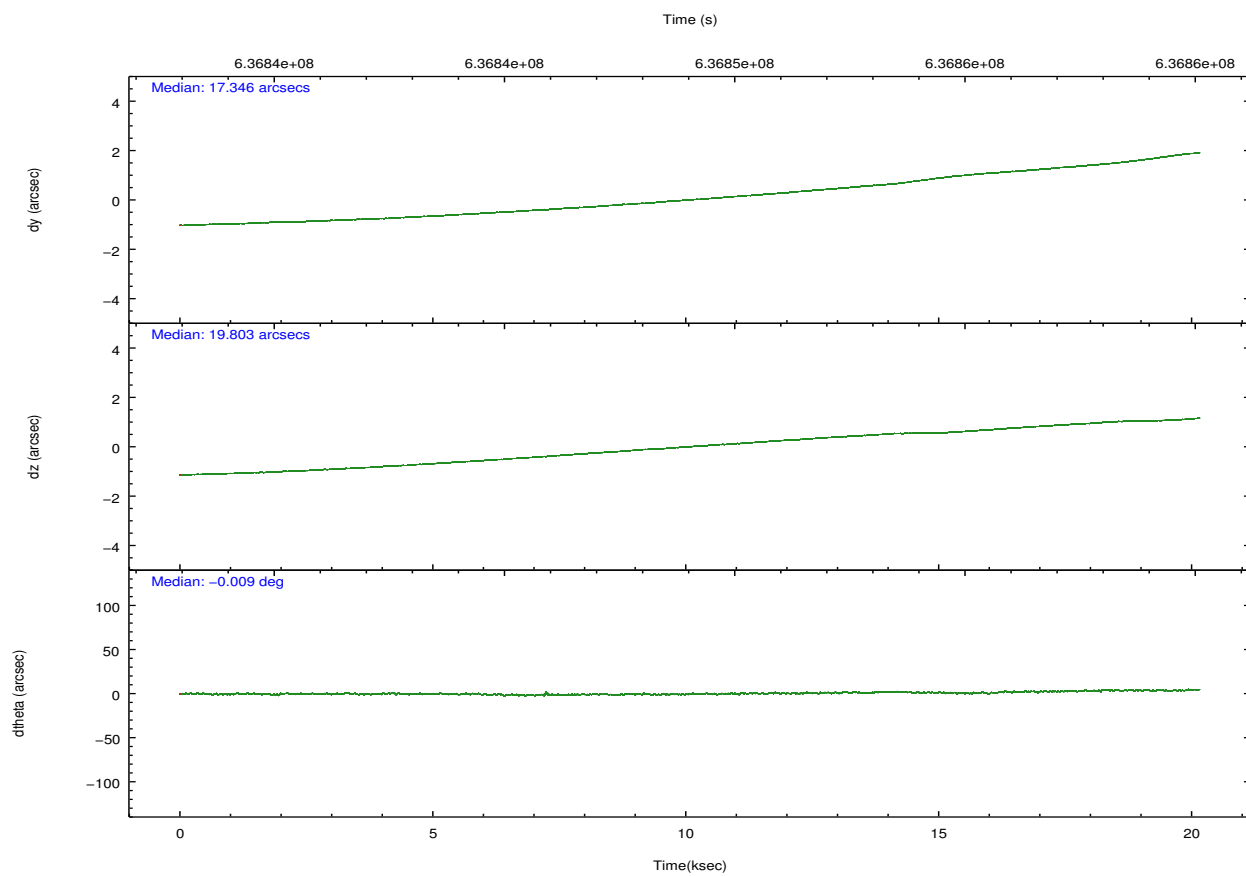
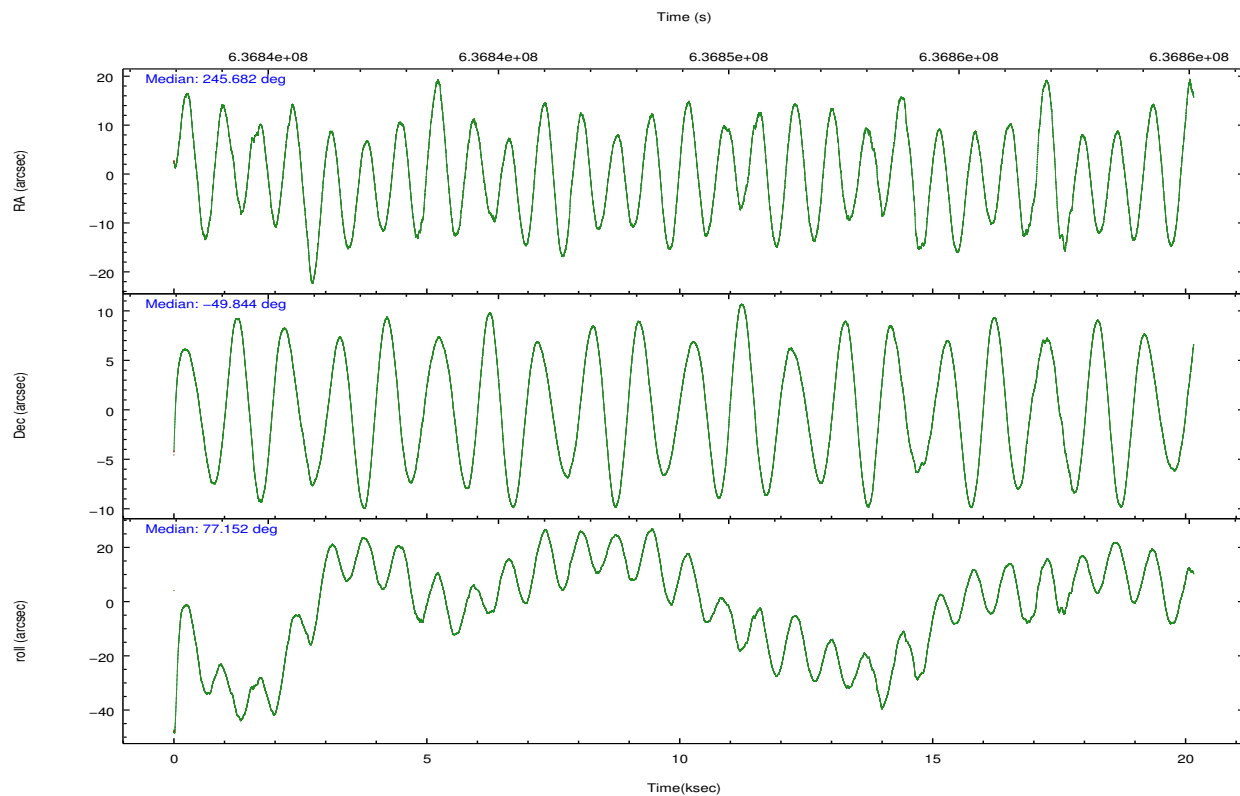
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	279356	259145	436568	257467	283334	426881	grade 0 events	2793	2921	81567	2853	5975	15293
rejected events	256707	235224	205186	231758	193334	355684		0%	1%	18%	1%	2%	3%
rejected %	91%	90%	46%	90%	68%	83%	grade 1 events	156	143	481	120	272	323
								0%	0%	0%	0%	0%	0%
							grade 2 events	8810	8857	71627	9959	24549	22002
								3%	3%	16%	3%	8%	5%
							grade 3 events	2750	3234	3013	3107	4330	7227
								0%	1%	0%	1%	1%	1%
							grade 4 events	2890	2856	2812	2866	4419	6847
								1%	1%	0%	1%	1%	1%
							grade 5 events	6394	7353	16643	7692	18963	11344
								2%	2%	3%	2%	6%	2%
							grade 6 events	5409	6056	72379	6928	50757	19875
								1%	2%	16%	2%	17%	4%
							grade 7 events	250154	227725	188046	223942	174069	343970
								89%	87%	43%	86%	61%	80%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	245.694522	245.6814540210359	CCD I2 on	O2	Y
[deg] Pointing Dec	-49.869906	-49.8437983054164	CCD I3 on	O3	Y
[deg] Pointing Roll	77.006006	77.15262444187542	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	Y	Y
[s] Observation start time (MET)	636839118.184000	636837787.39935	CCD S5 on	N	N
Observation start date	2018-03-07T19:44:09	2018-03-07T19:23:07	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	636859118.184000	636859906.90065	On-chip summing requested	N	N
Observation end date	2018-03-08T01:17:29	2018-03-08T01:31:46	Subarray requested	NONE	NONE
Read mode	CONTINUOUS	CONTINUOUS	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0

2.3 Aspect



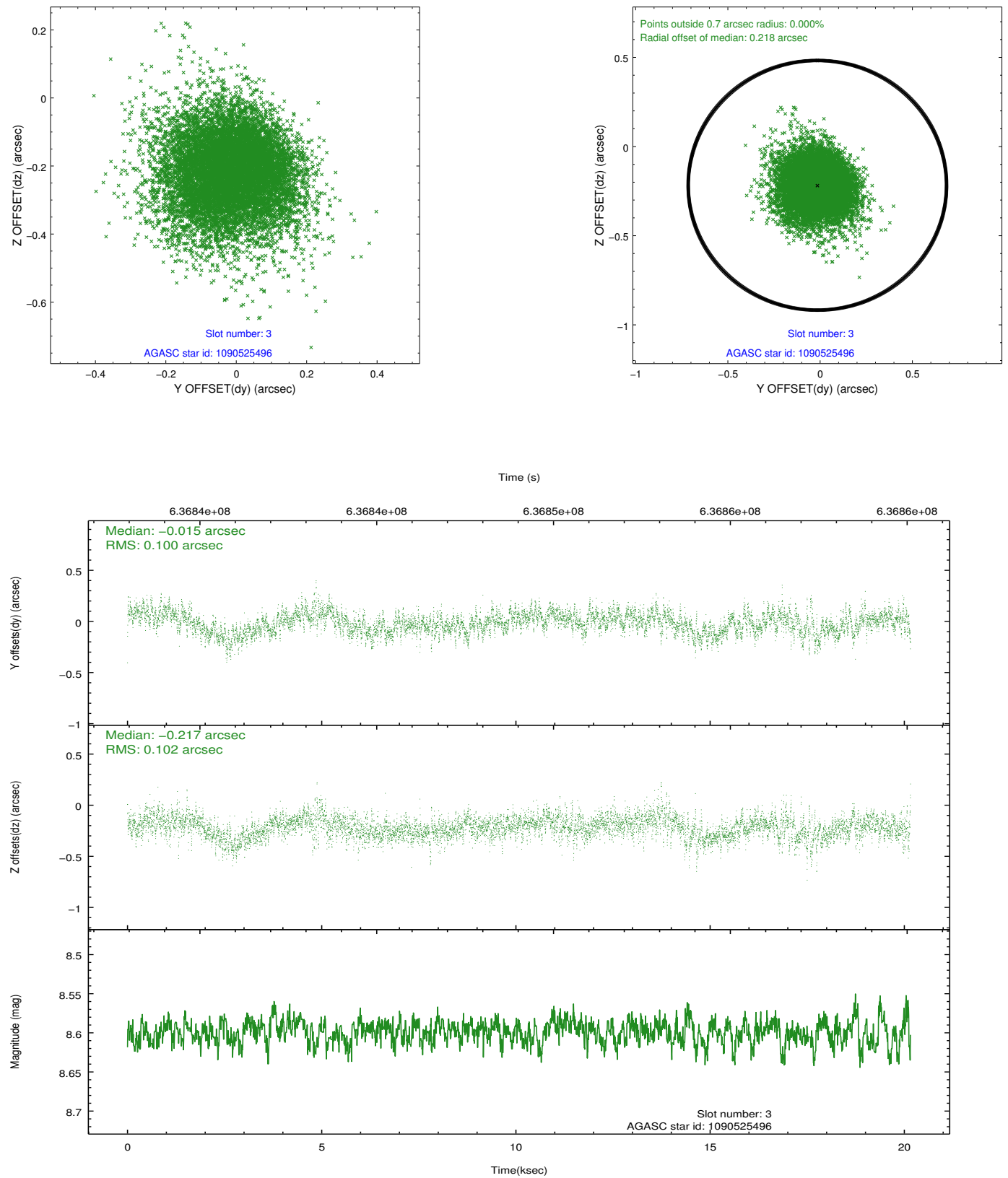


Slot Statistics

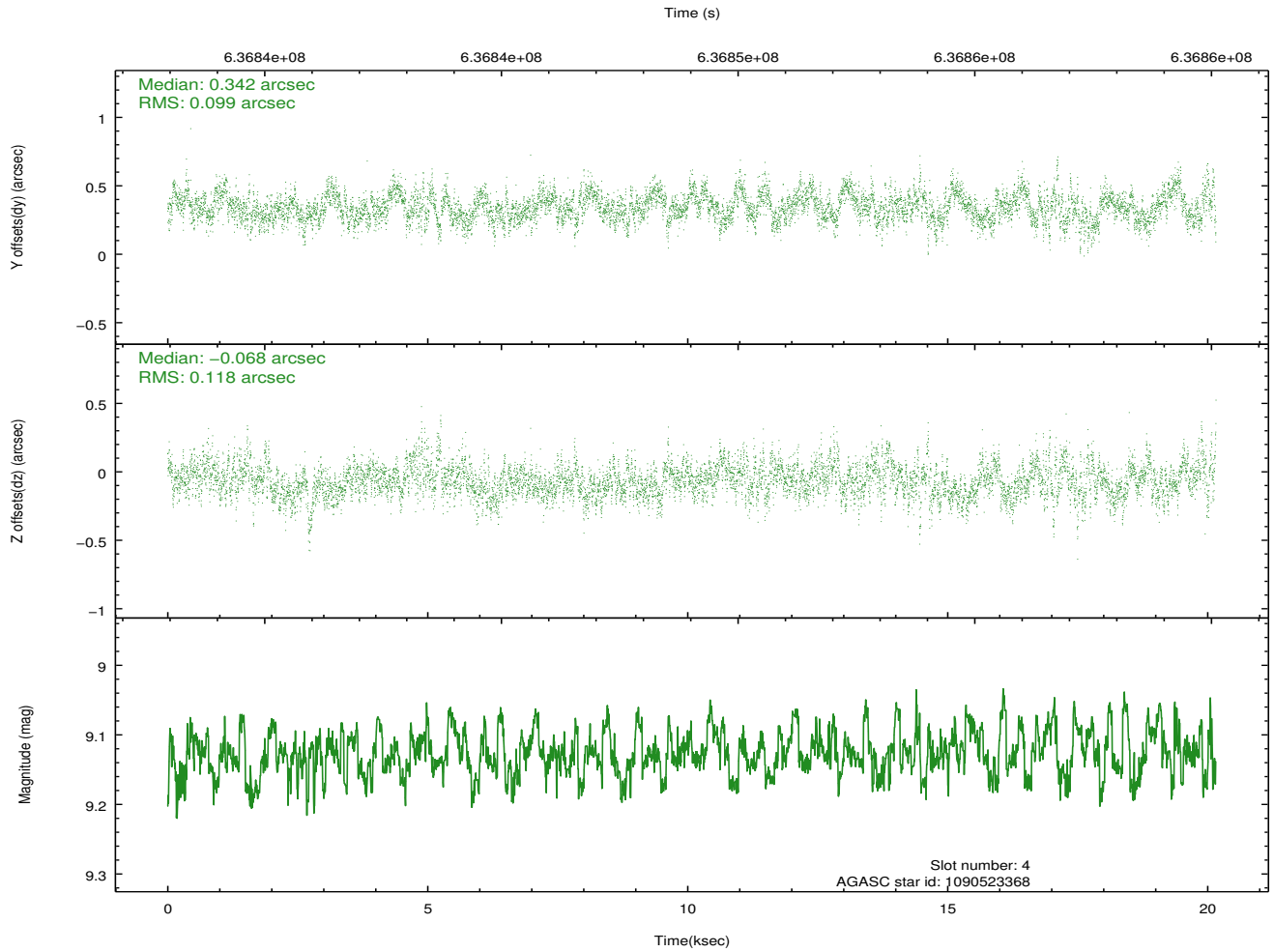
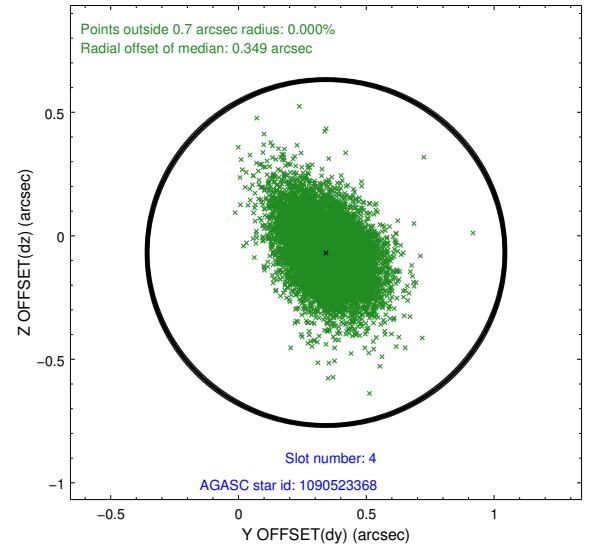
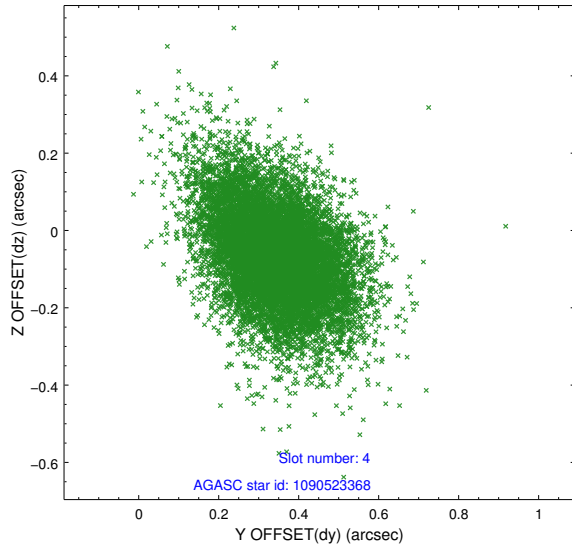
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.14	4917	0.291	-0.079	0.035	0.045	0.000000	0.000000	925.91	-1736.94
1	FID		ACIS-S-2	7.07	4918	-0.169	-0.044	0.020	0.039	0.000000	0.000000	-770.35	-1741.77
2	FID		ACIS-S-5	7.15	4917	-0.148	0.130	0.025	0.033	0.000000	0.000000	-1823.88	160.45
3	GUIDE	used	1090525496	8.60	9828	-0.015	-0.217	0.149	0.250	244.777039	-50.152945	-1481.44	1830.00
4	GUIDE	used	1090523368	9.13	9820	0.342	-0.068	0.158	0.276	245.173503	-50.148014	-1250.20	945.47
5	GUIDE	used	1090522688	8.10	9831	-0.472	-0.138	0.153	0.302	245.358664	-49.397960	1476.25	1148.53
6	GUIDE	used	1090519800	8.82	9824	-0.135	-0.036	0.166	0.291	245.591117	-49.628512	792.39	430.57
7	GUIDE	used	1090531048	8.35	9827	0.280	0.452	0.162	0.291	246.008201	-50.442227	-1846.99	-1163.80

2.4 Star Slots

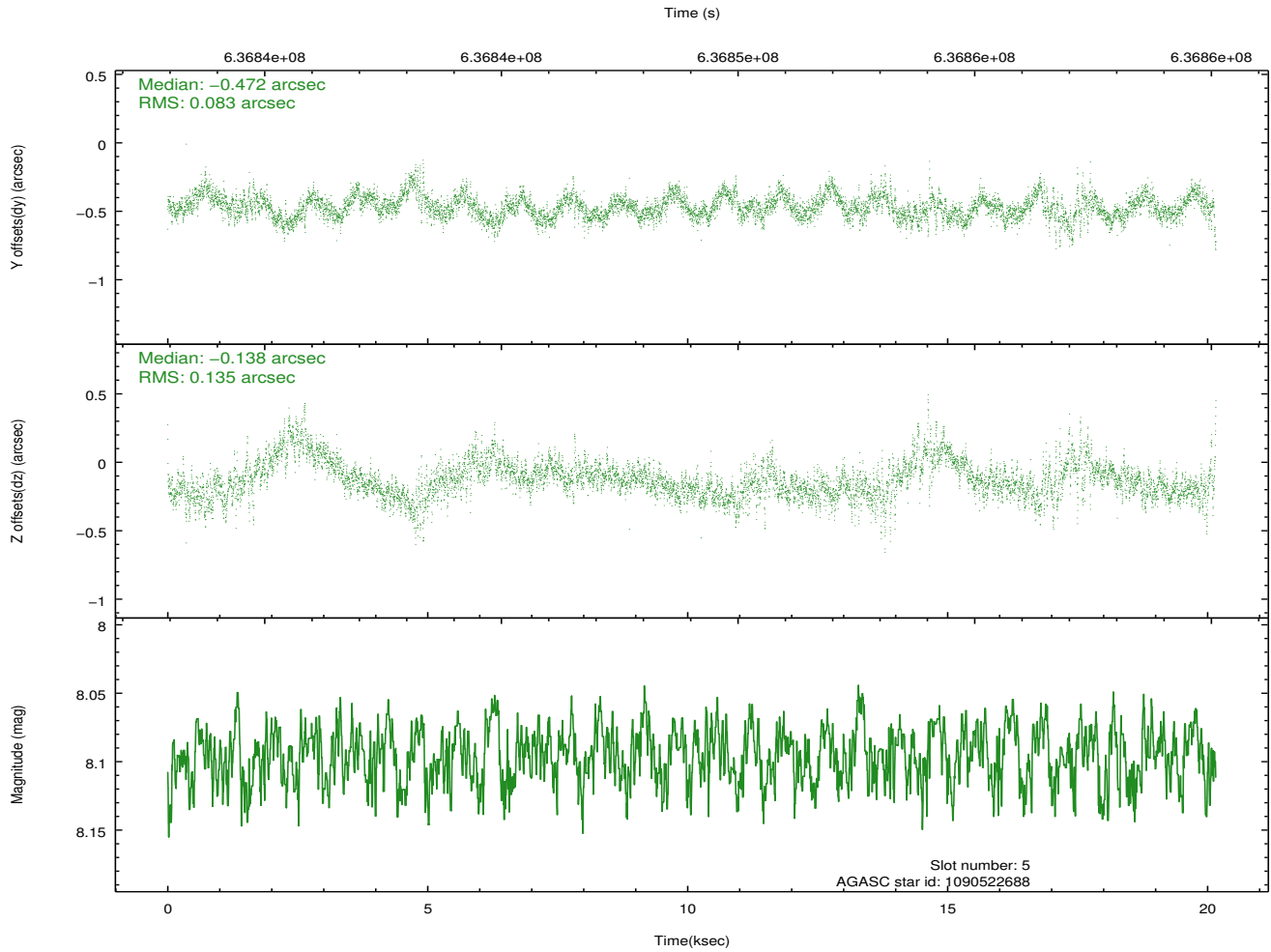
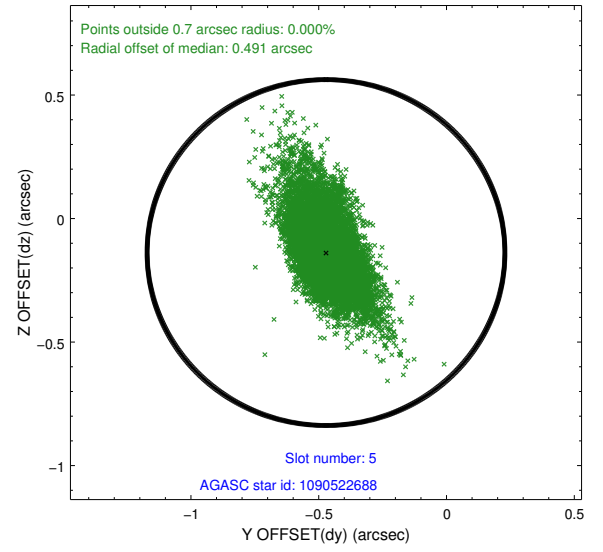
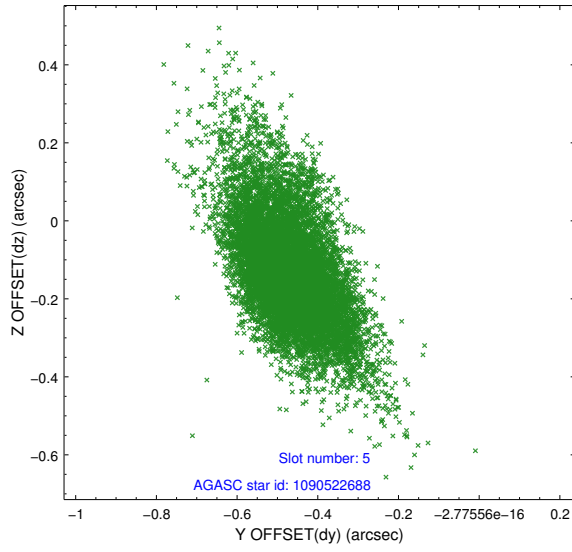
2.4.1 Slot 3



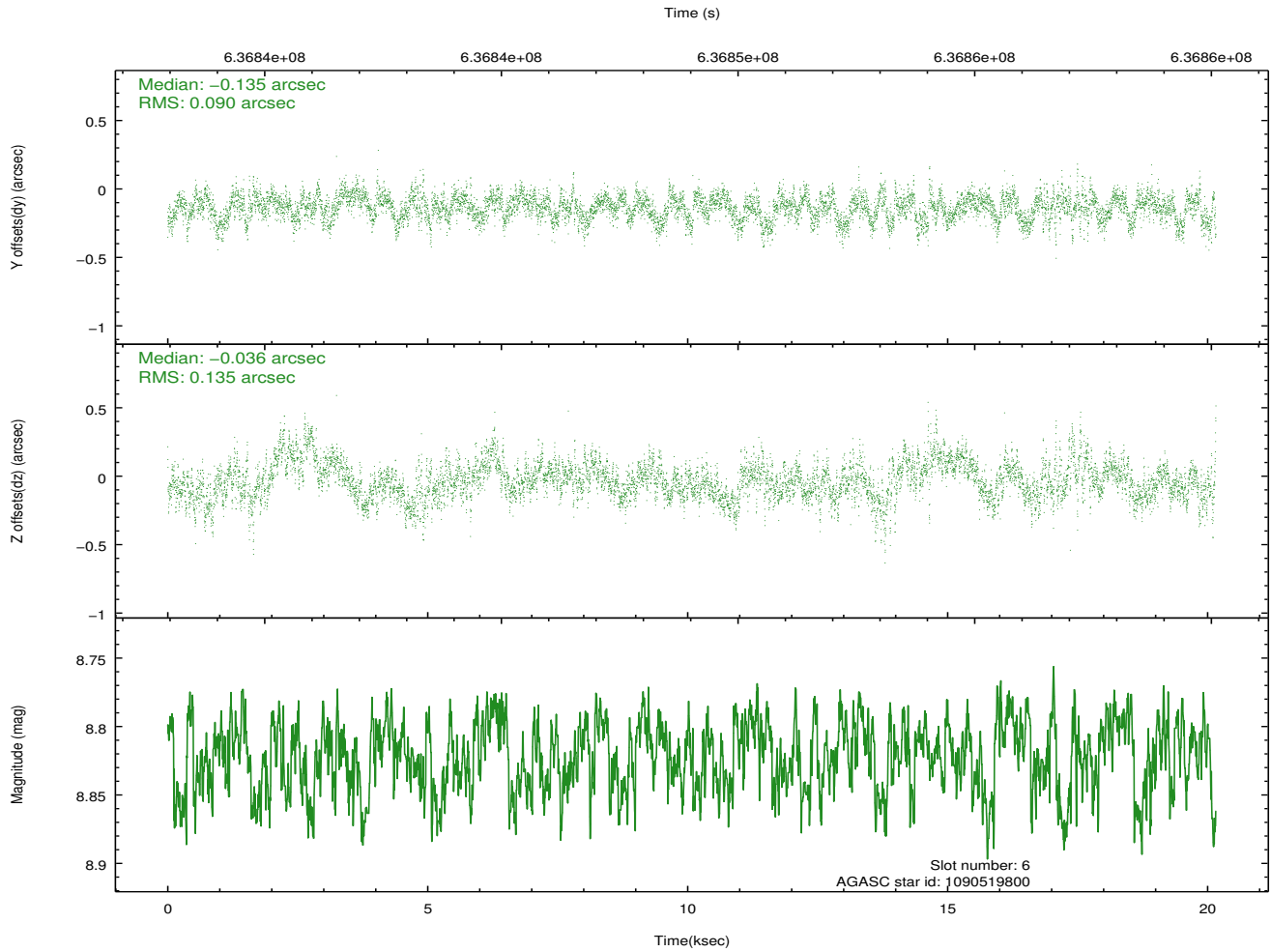
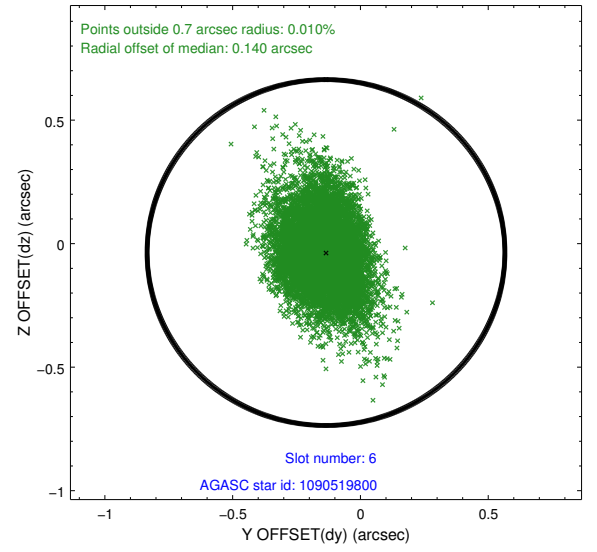
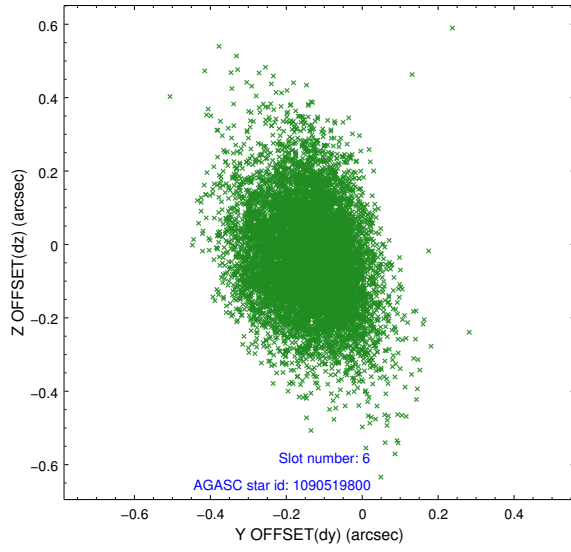
2.4.2 Slot 4



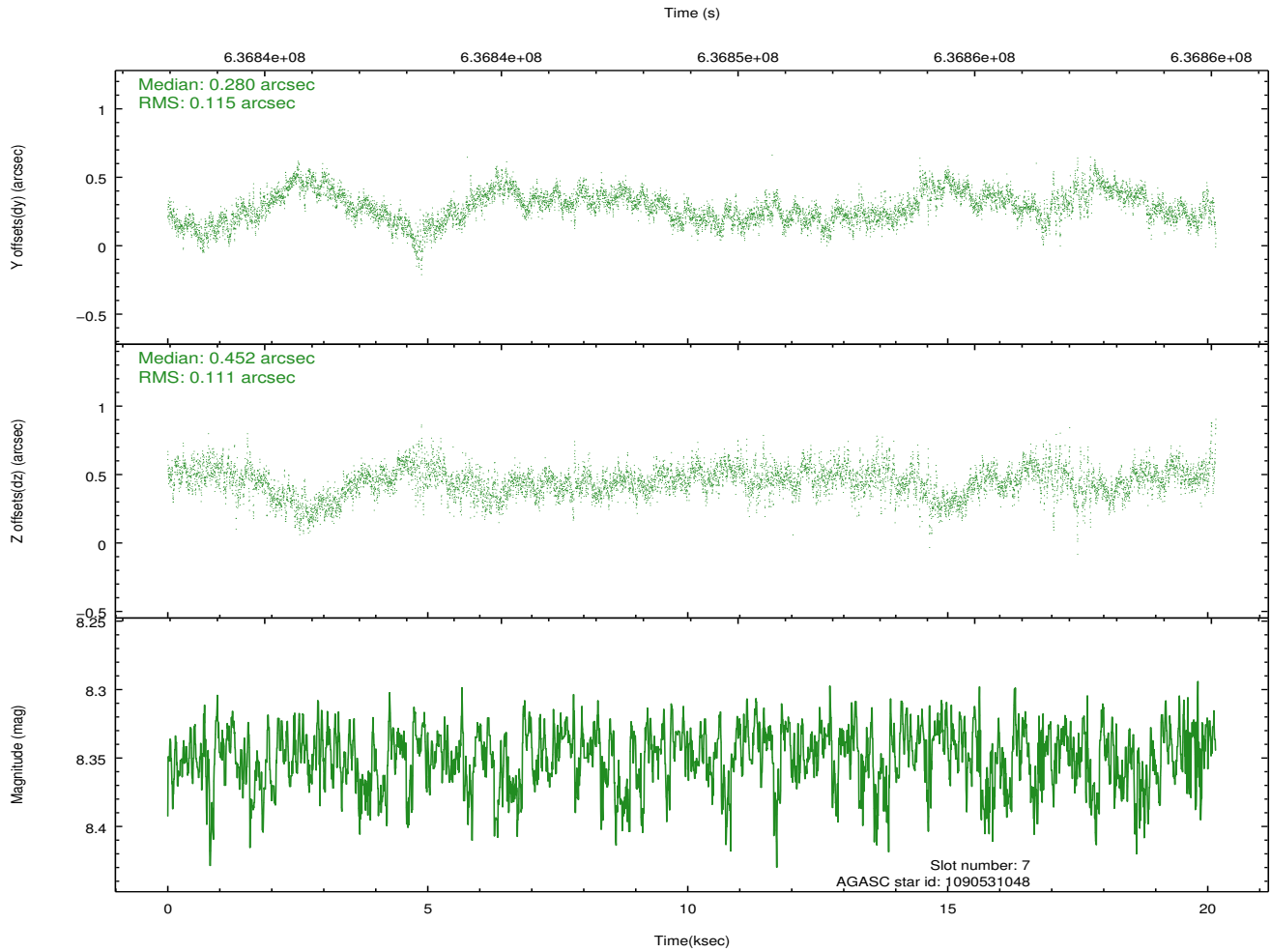
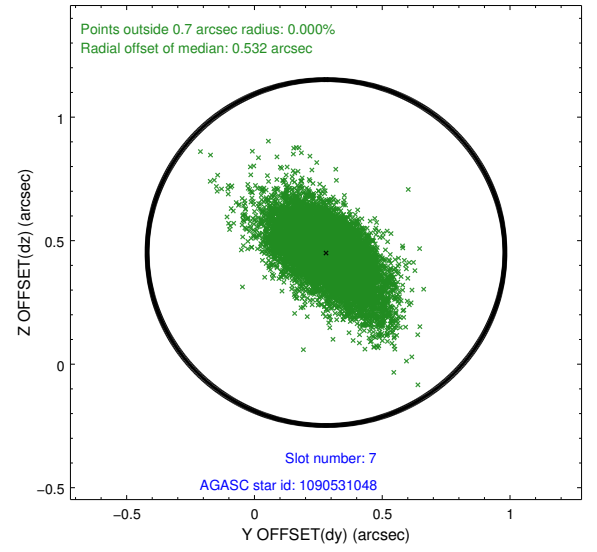
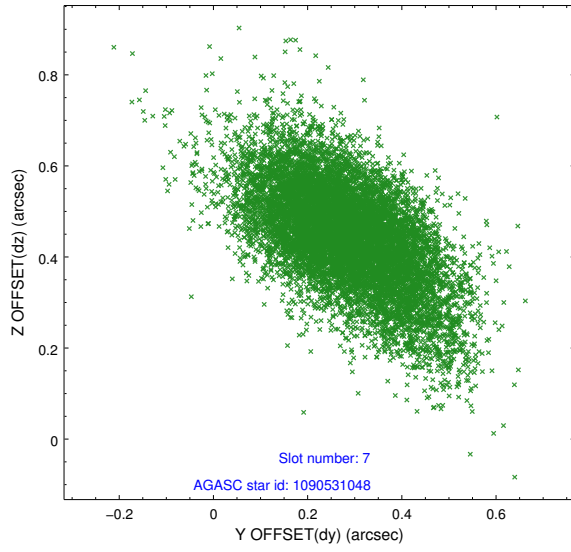
2.4.3 Slot 5



2.4.4 Slot 6

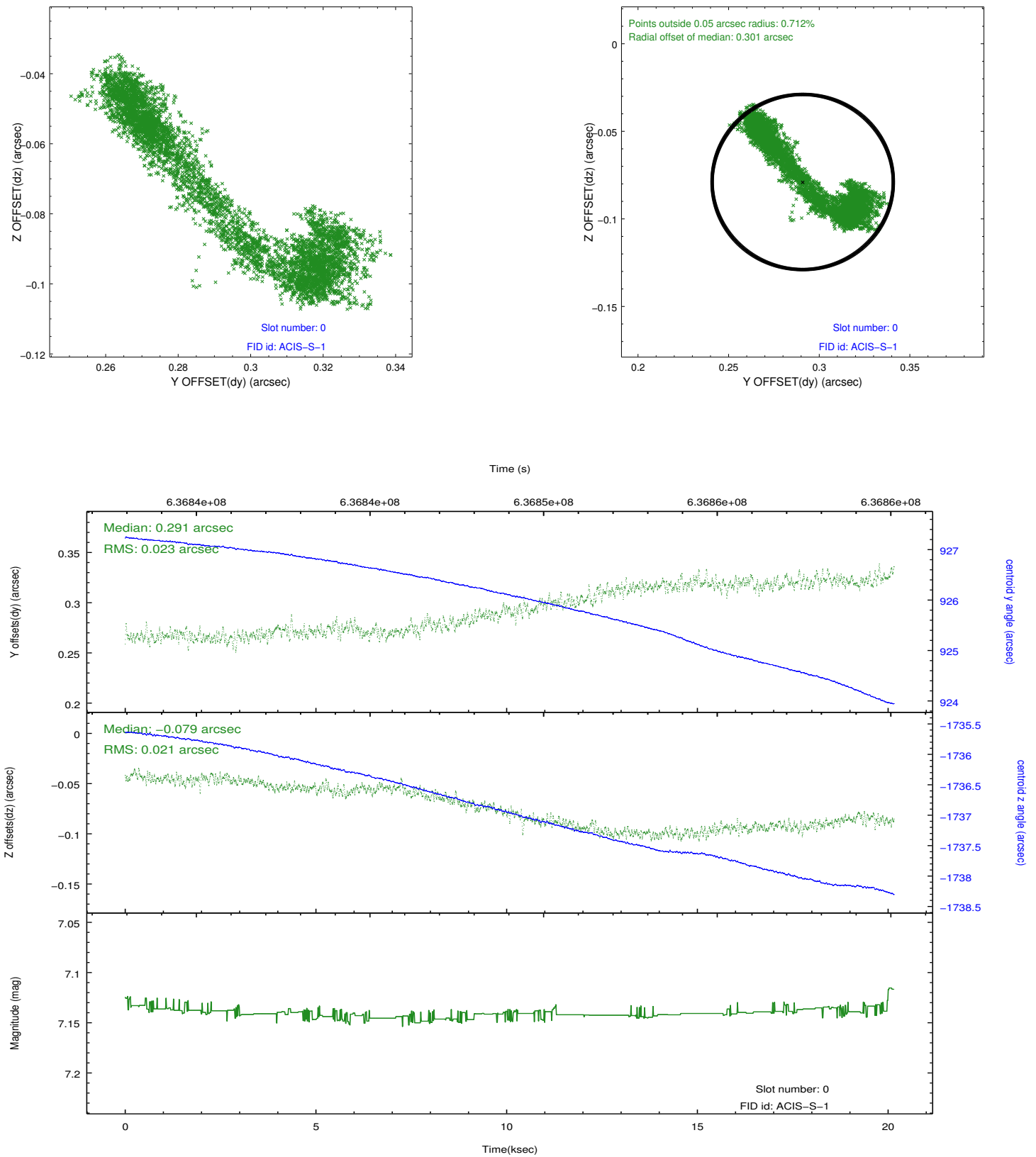


2.4.5 Slot 7

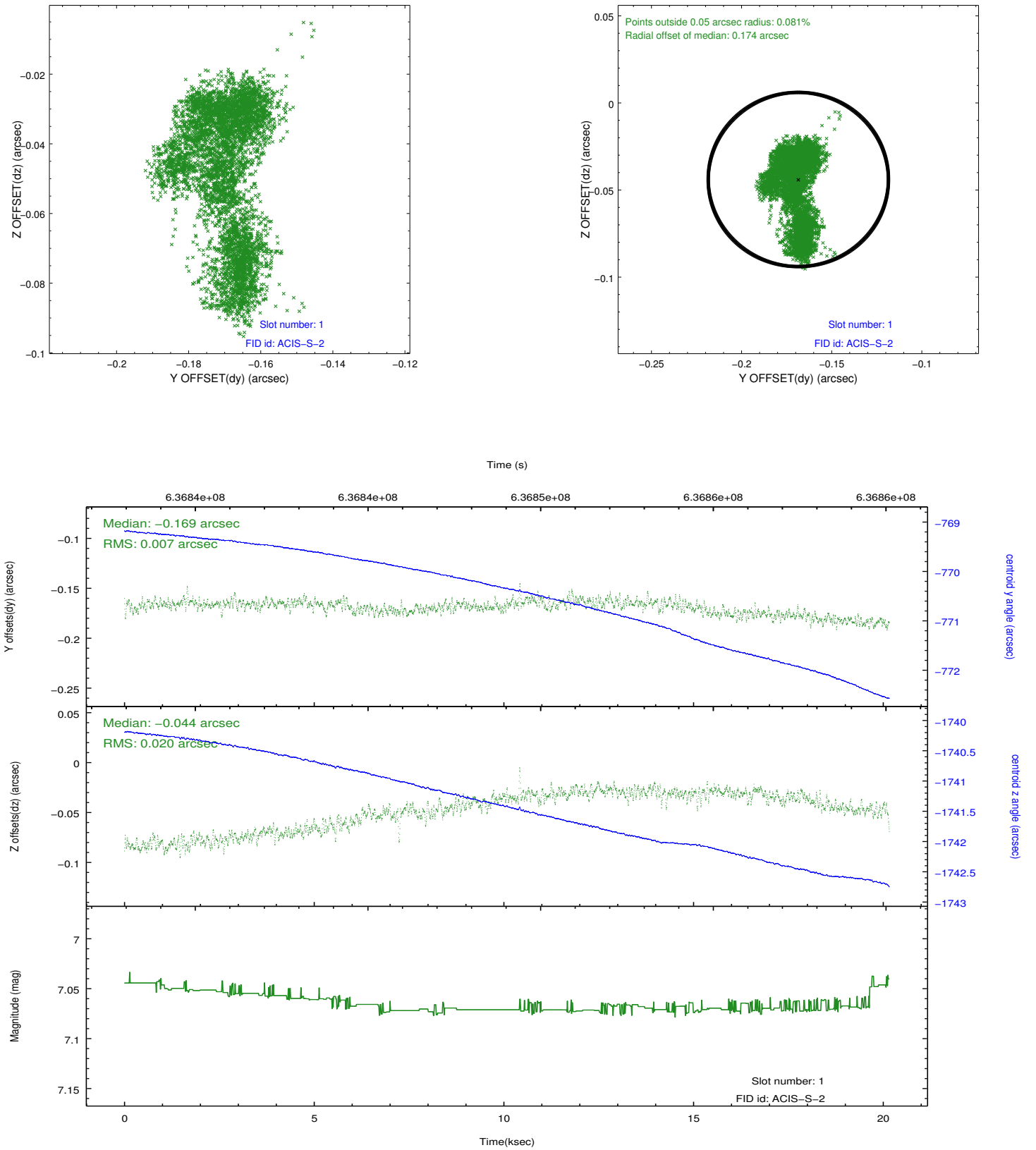


2.5 FID Slots

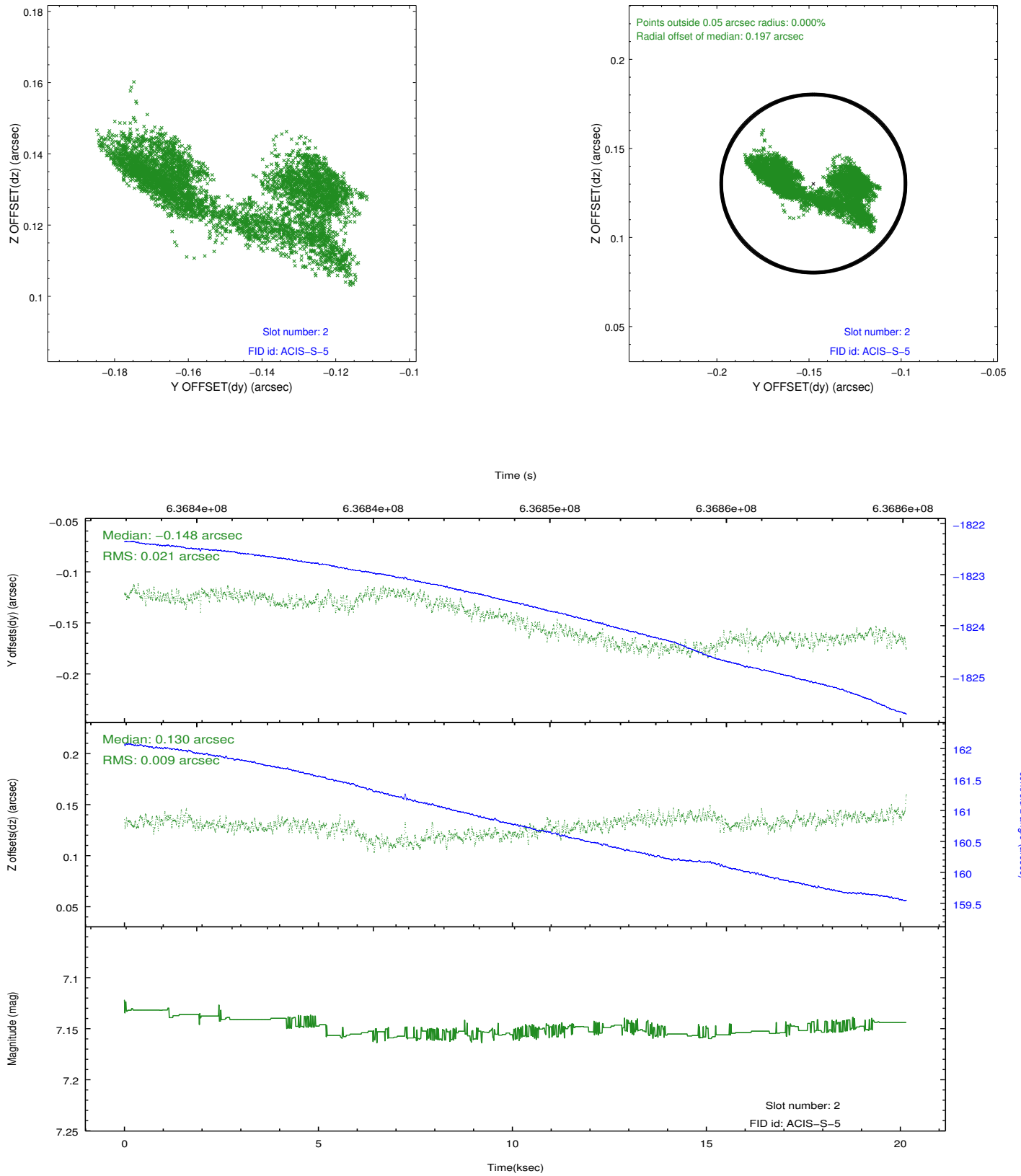
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2018.03.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.07425

A.2 Comments