

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8054 - L2 Version 2
Chandra X-Ray Center

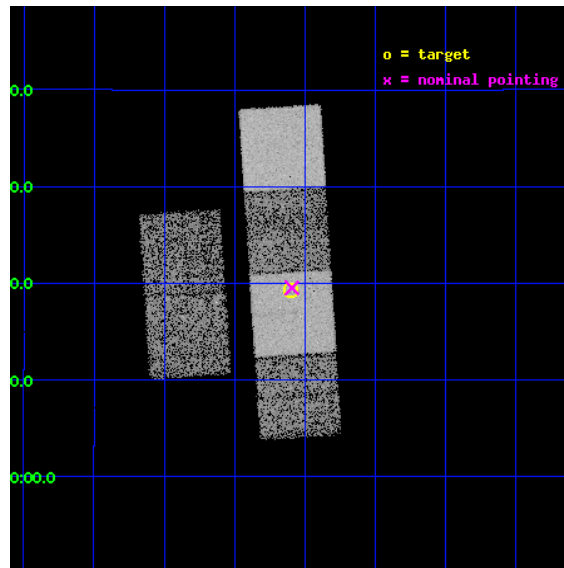
L2 Processing Date : May 9 2012

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1 Front

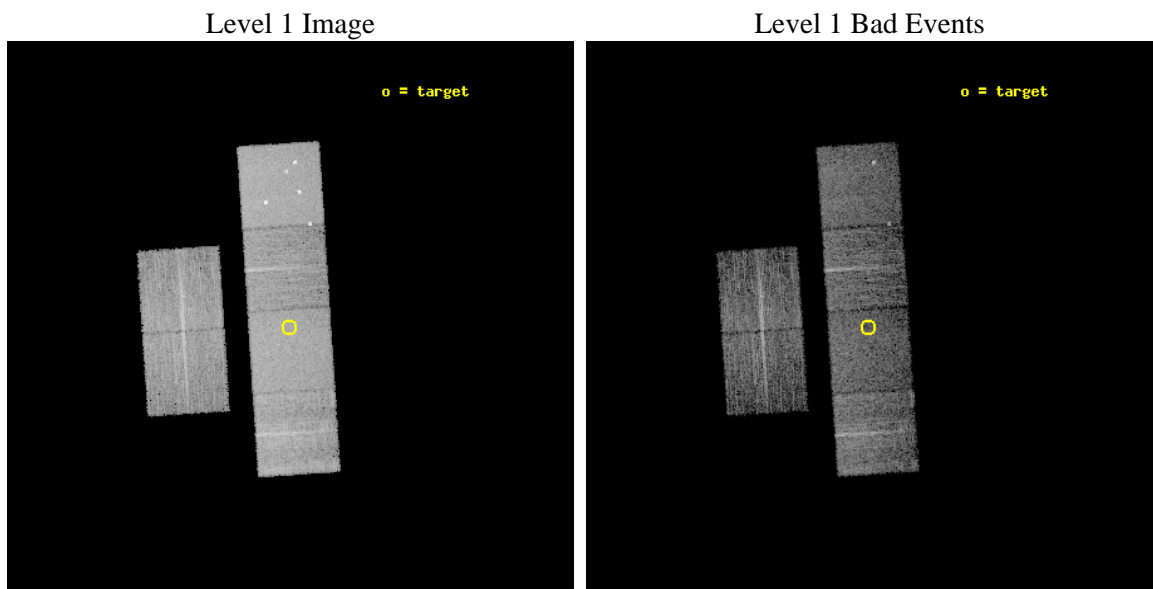
seq_num	900595	Sequence number
obs_id	8054	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	1537	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	188.525417	Observer's specified target RA [deg]
dec_targ	11.321389	Observer's specified target Dec [deg]
ra_nom	188.52305828133	Nominal RA [deg]
dec_nom	11.325697995157	Nominal Dec [deg]
roll_nom	86.257985051809	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5157.4357815981	Sum of GTIs [s]
livetime	5092.1292242965	Livetime [s]
ontime2	5154.2357914448	Sum of GTIs [s]
ontime3	5157.3126615882	Sum of GTIs [s]
ontime5	5157.3947415948	Sum of GTIs [s]
ontime6	5157.3537015915	Sum of GTIs [s]
ontime7	5157.4357815981	Sum of GTIs [s]
ontime8	5154.0305617452	Sum of GTIs [s]
l2events	85711	Number of level 2 events



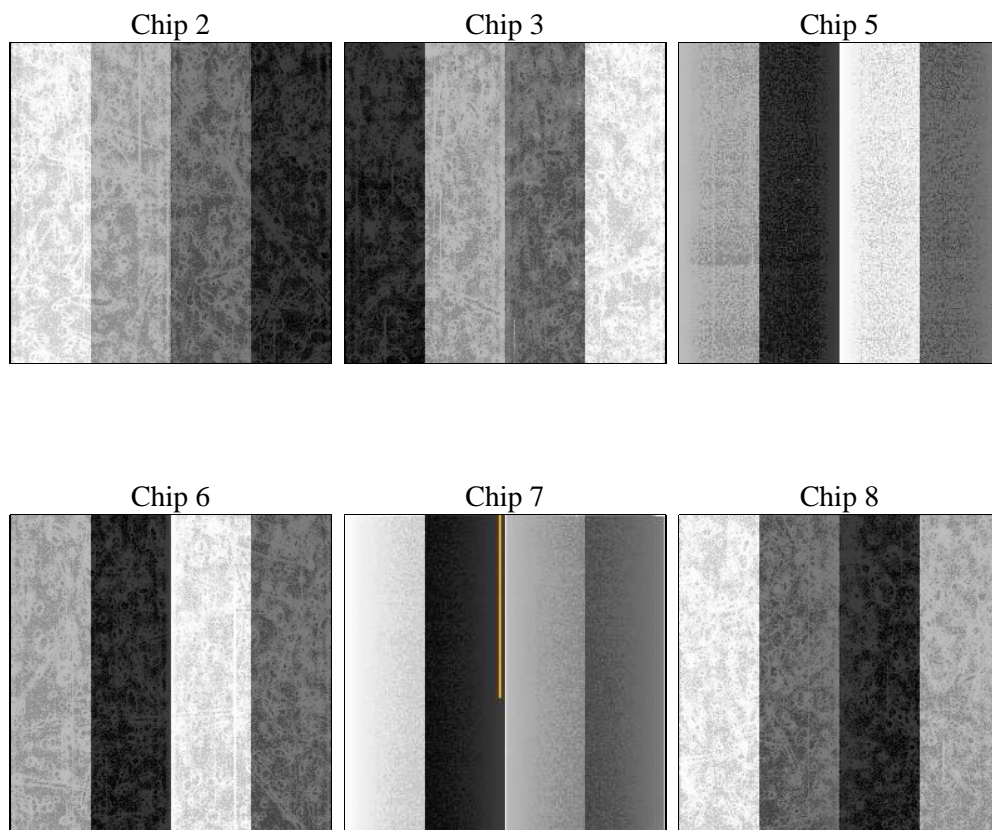
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	5400.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	5157.4357815981	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5154.2357914448	Sum of GTIs [s]
date	2012-05-09T19:28:22	Date and time of file creation	ontime3	5157.3126615882	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5157.3947415948	Sum of GTIs [s]
			ontime6	5157.3537015915	Sum of GTIs [s]
			ontime7	5157.4357815981	Sum of GTIs [s]
			ontime8	5154.0305617452	Sum of GTIs [s]
			l1events	367583	Number of level 1 events

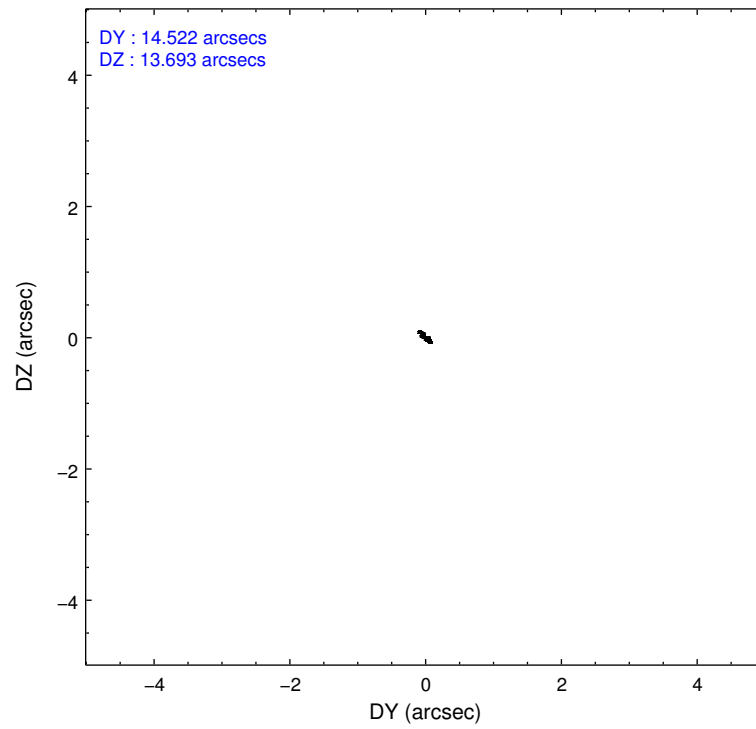
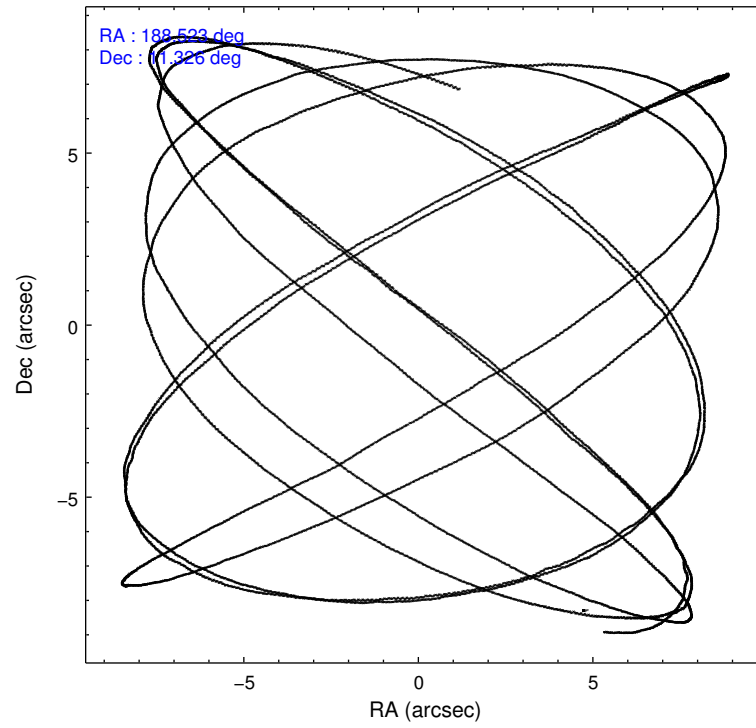
2.1.4 Events

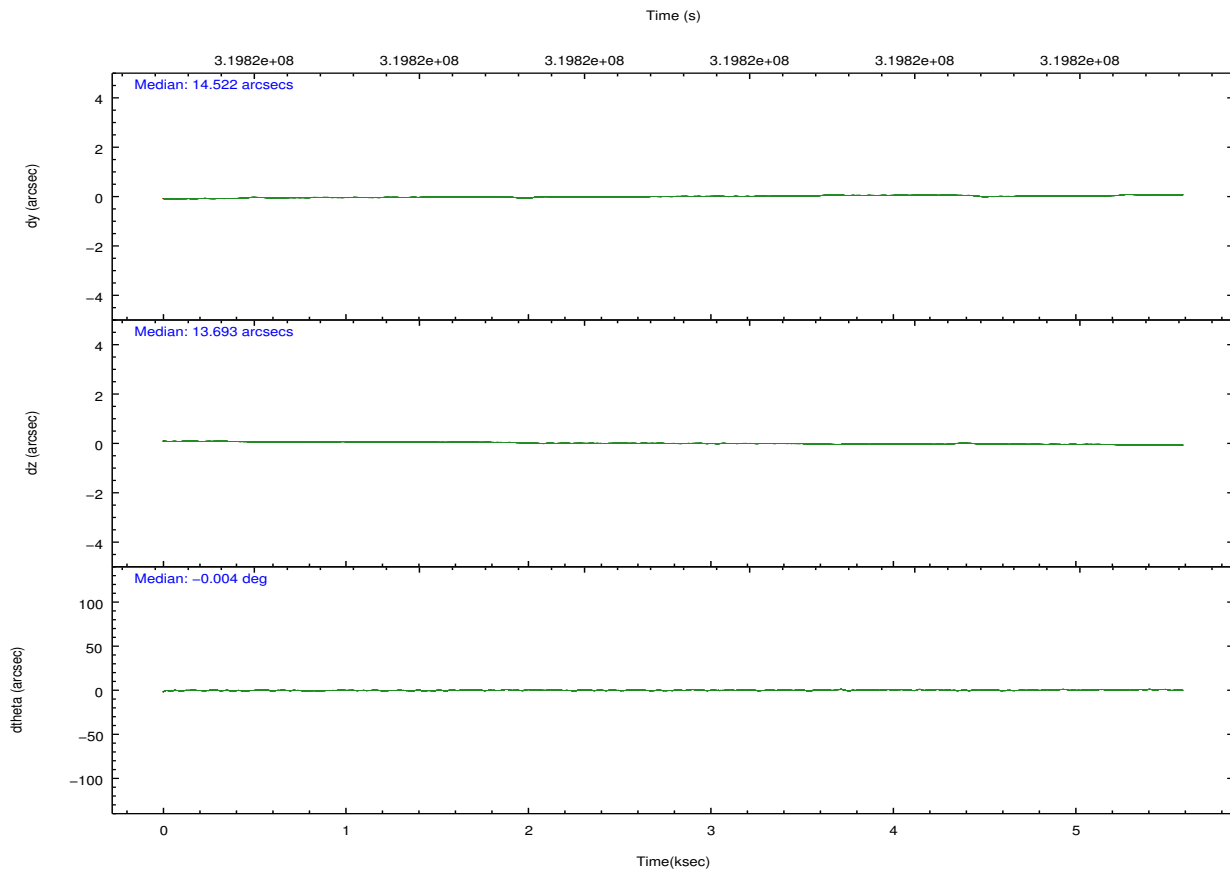
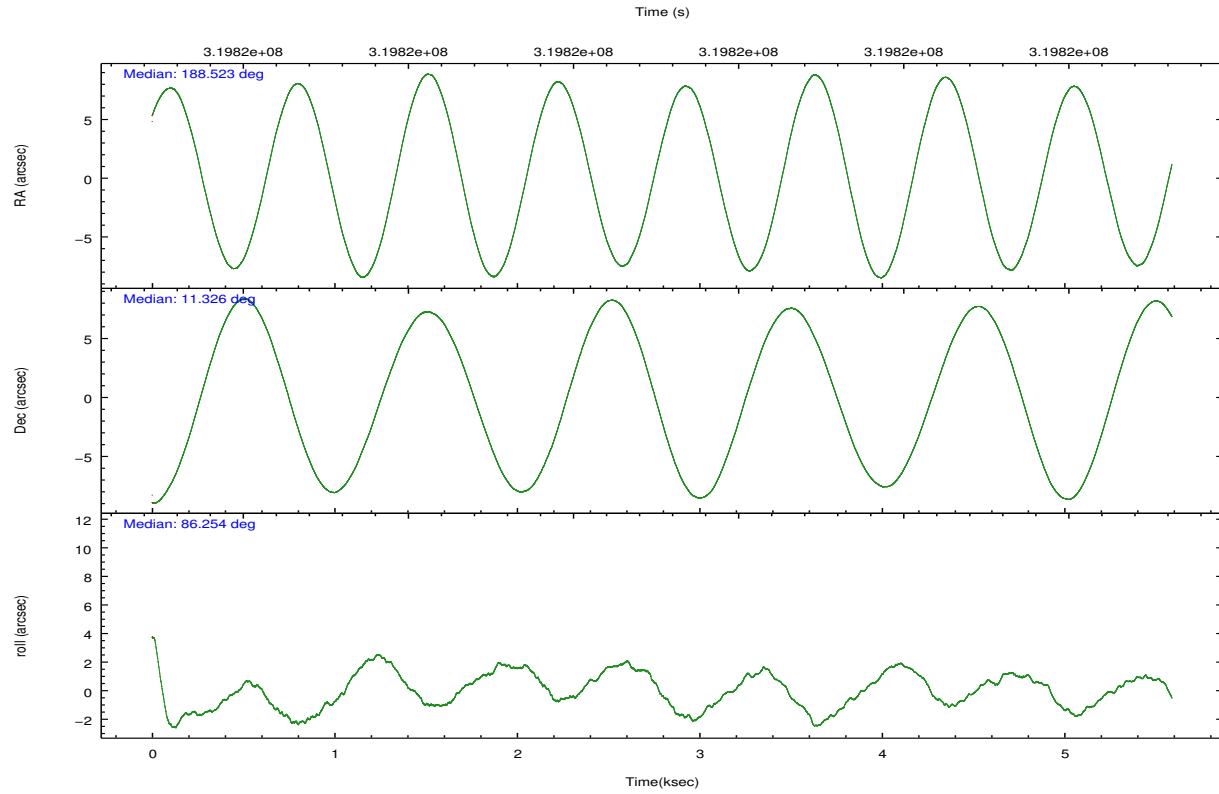
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	52927	47241	80876	49831	69229	67479	grade 0 events	2733	2985	5824	2943	2881	4894
rejected events	46716	41016	41986	43008	39625	52318		5%	6%	7%	5%	4%	7%
rejected %	88%	86%	51%	86%	57%	77%	grade 1 events	41	28	209	30	74	67
								0%	0%	0%	0%	0%	0%
							grade 2 events	1296	1163	11535	1416	6007	3428
								2%	2%	14%	2%	8%	5%
							grade 3 events	577	570	1384	617	2486	1482
								1%	1%	1%	1%	3%	2%
							grade 4 events	560	523	1358	584	2575	1358
								1%	1%	1%	1%	3%	2%
							grade 5 events	2099	2233	5762	2301	6333	3228
								3%	4%	7%	4%	9%	4%
							grade 6 events	1050	995	18841	1277	15693	4014
								1%	2%	23%	2%	22%	5%
							grade 7 events	44571	38744	35963	40663	33180	49008
								84%	82%	44%	81%	47%	72%

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	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	188.535770	188.5230582813294	CCD I2 on	O1	Y
[deg] Pointing Dec	11.301318	11.32569799515723	CCD I3 on	O2	Y
[deg] Pointing Roll	86.098860	86.25798505180897	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	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	O4	Y
[s] Observation start time (MET)	319816923.184000	319816384.99809	CCD S5 on	N	N
Observation start date	2008-02-19T14:00:58	2008-02-19T13:53:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319822323.184000	319822596.49839	On-chip summing requested	N	N
Observation end date	2008-02-19T15:30:58	2008-02-19T15:36:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



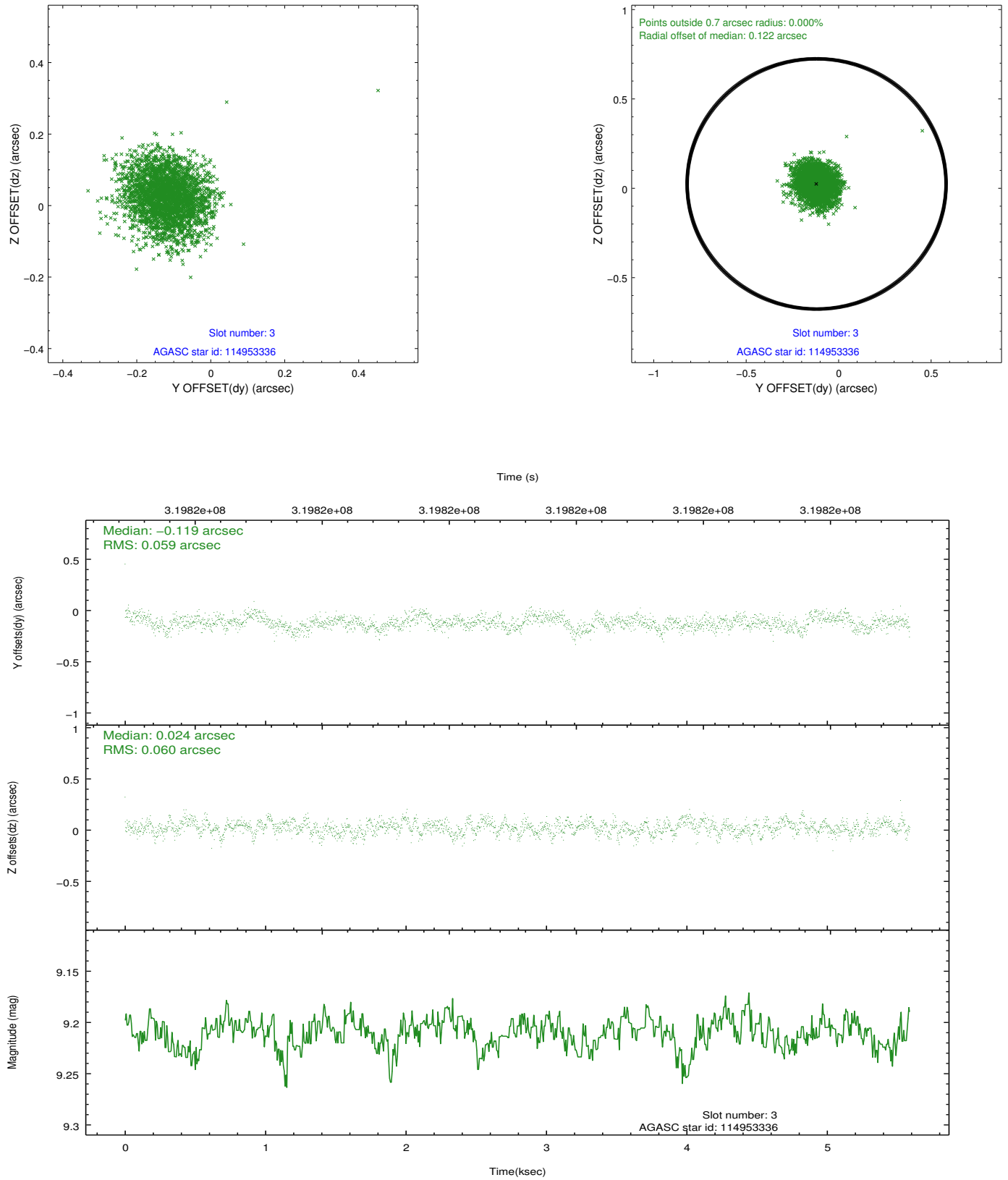


Slot Statistics

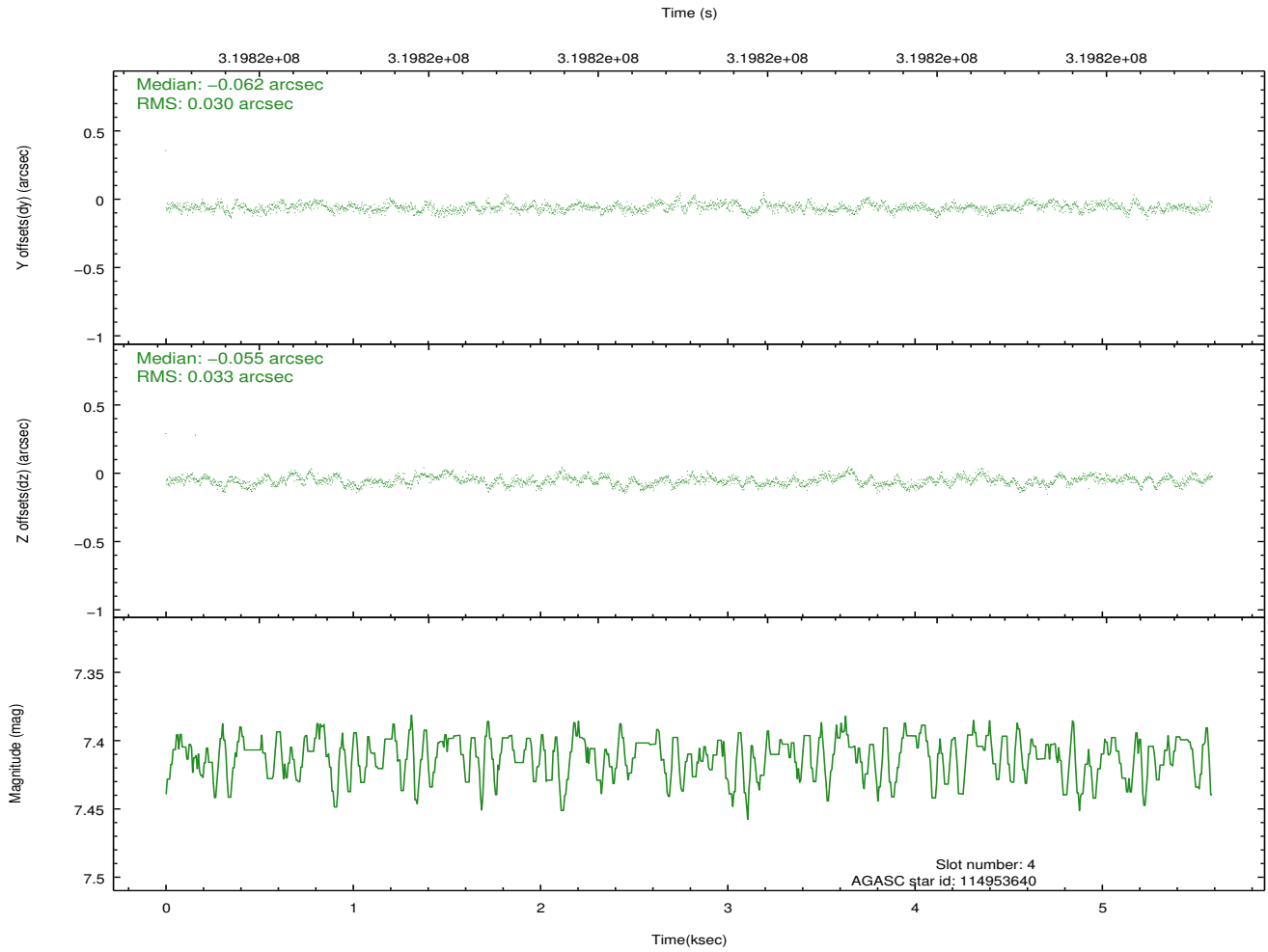
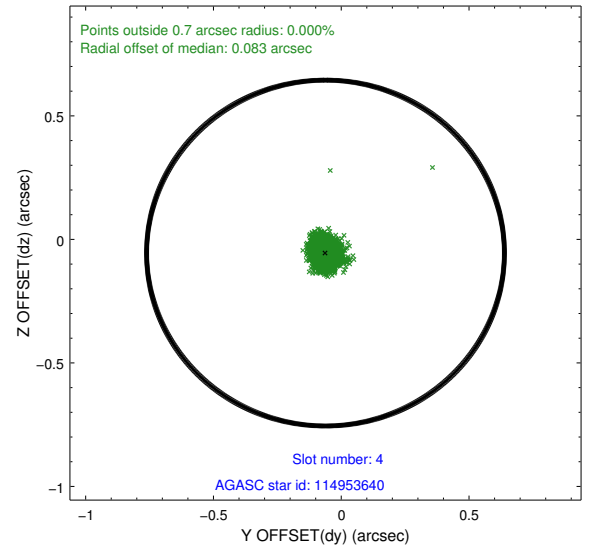
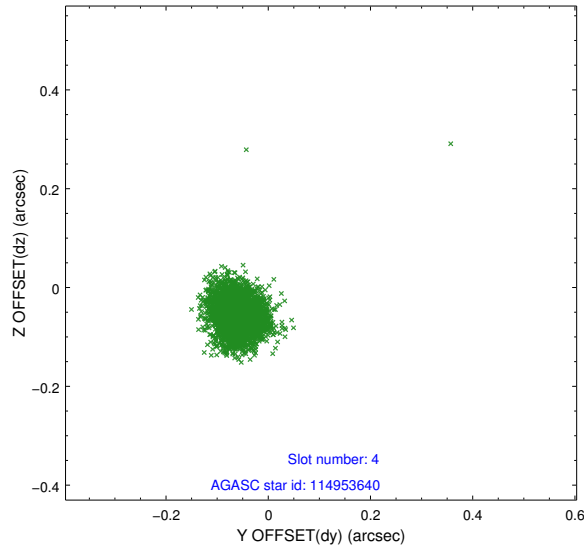
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1364	-0.067	-0.065	0.007	0.011	0.000000	0.000000	-767.55	-1735.10
1	FID	ACIS-S-4	7.19	1363	0.185	0.050	0.005	0.009	0.000000	0.000000	2145.49	172.36
2	FID	ACIS-S-5	7.23	1364	-0.149	0.024	0.007	0.012	0.000000	0.000000	-1819.09	167.25
3	GUIDE	114953336	9.21	2726	-0.119	0.024	0.090	0.143	188.911176	11.326132	180.34	-1315.66
4	GUIDE	114953640	7.41	2727	-0.062	-0.055	0.046	0.073	188.794711	11.547726	947.85	-851.06
5	GUIDE	114956088	7.81	2726	0.004	0.038	0.068	0.107	188.583972	10.921101	-1353.86	-262.68
6	GUIDE	114956456	8.17	2724	0.044	-0.078	0.072	0.113	188.716512	10.836292	-1626.89	-751.52
7	GUIDE	115089856	8.80	2723	0.129	0.069	0.076	0.123	189.118504	10.729832	-1910.64	-2196.68

2.4 Star Slots

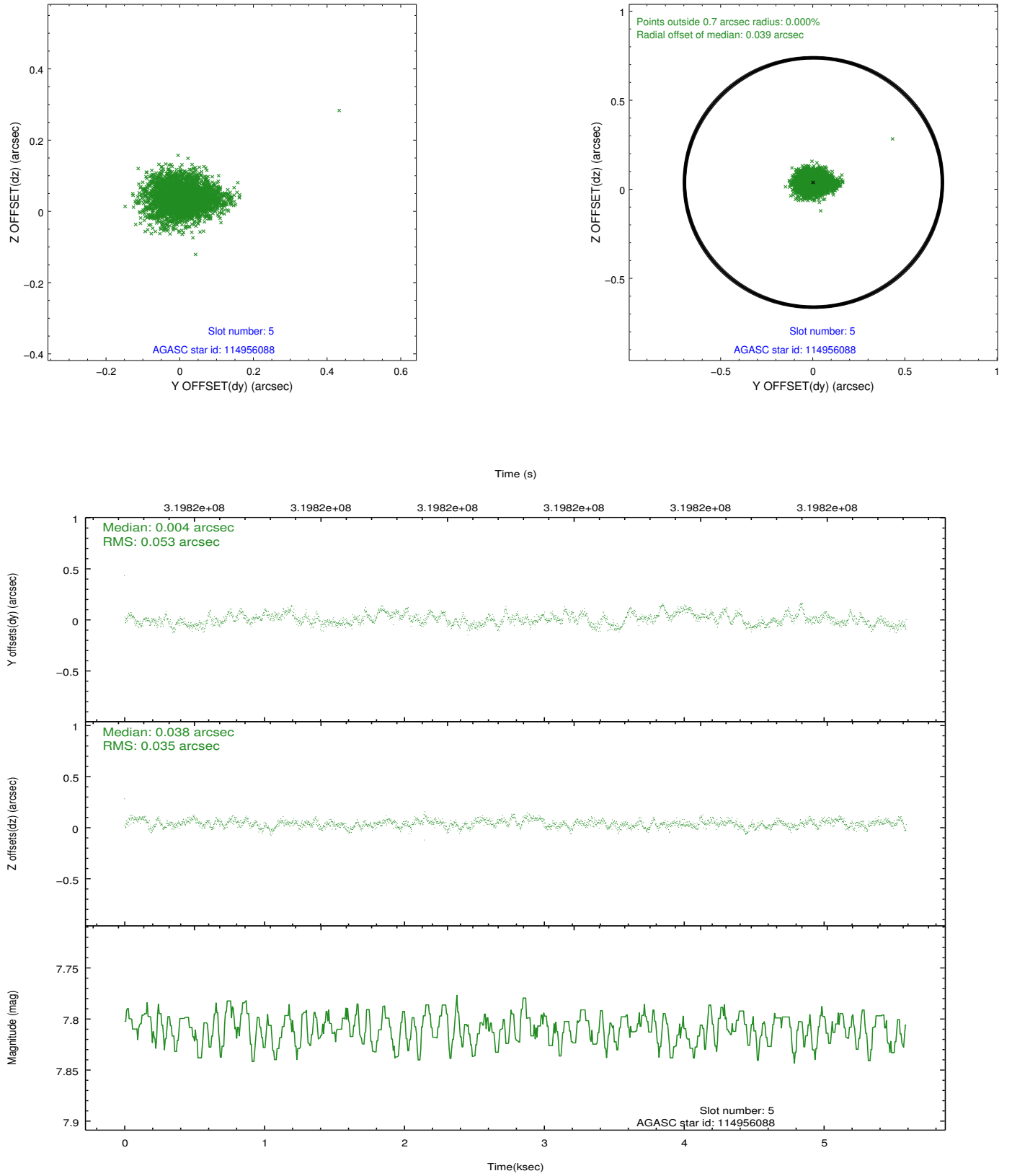
2.4.1 Slot 3



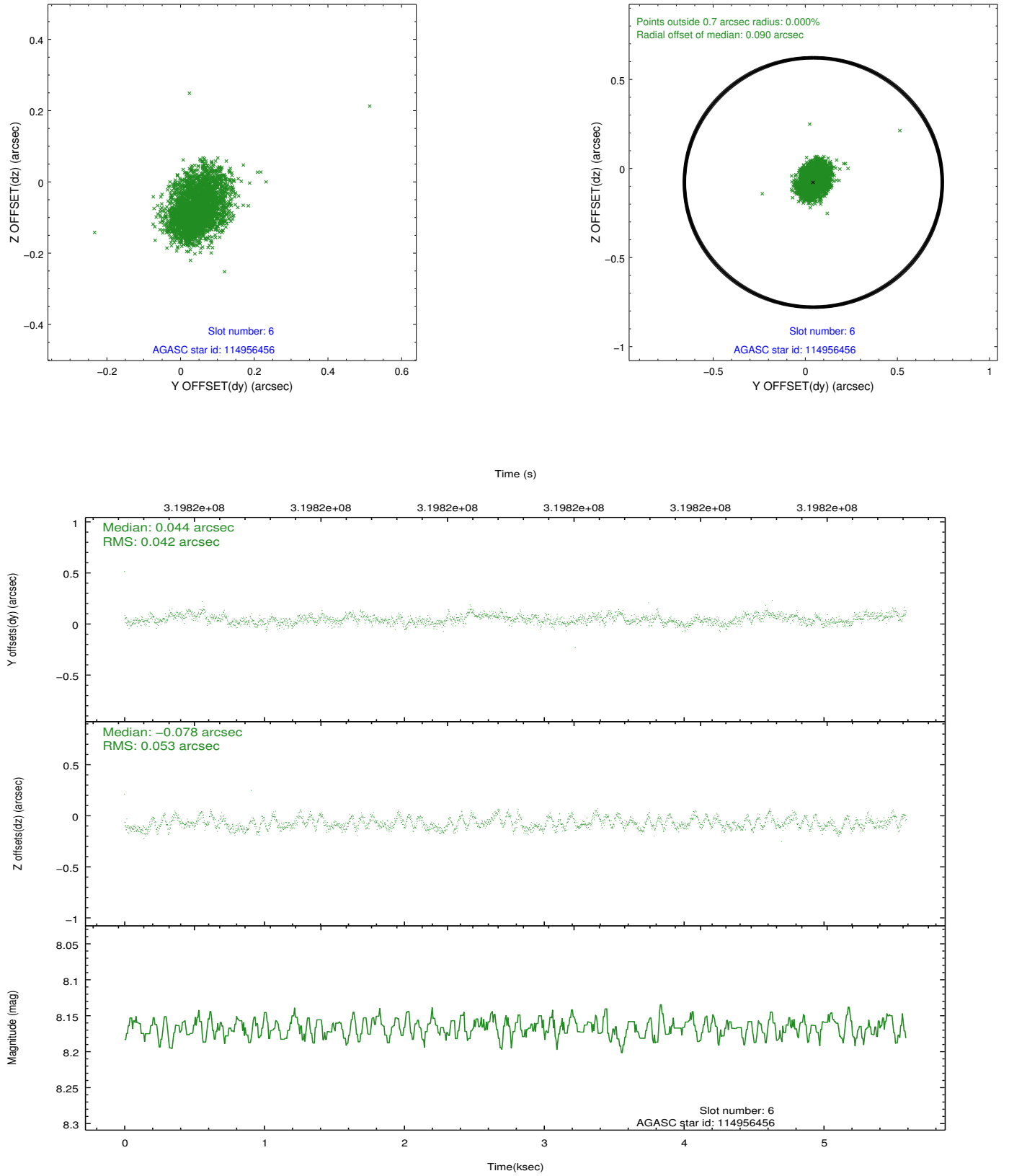
2.4.2 Slot 4



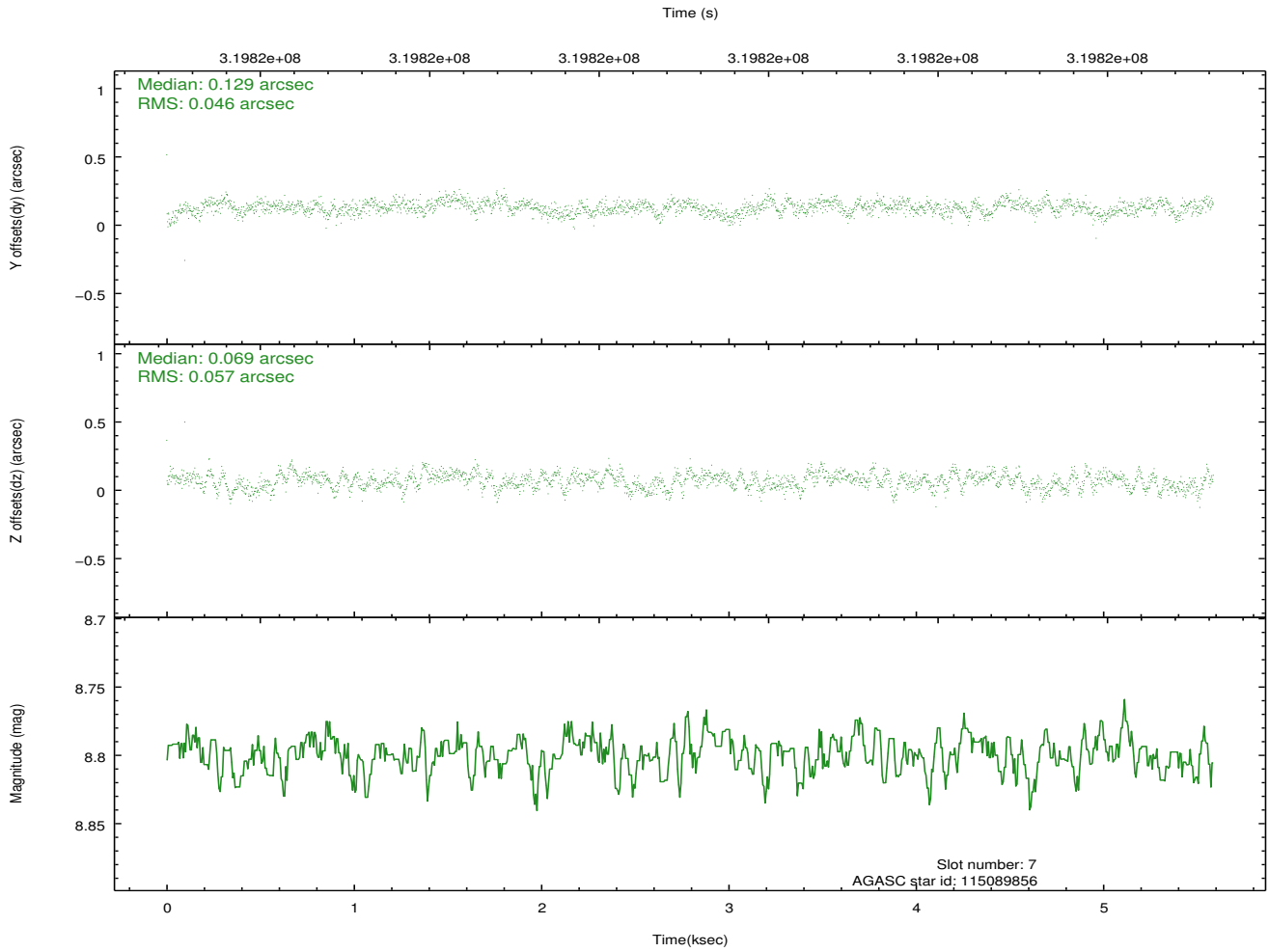
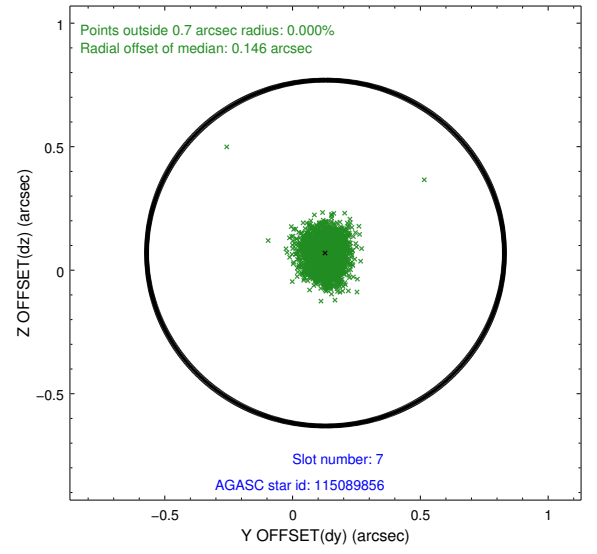
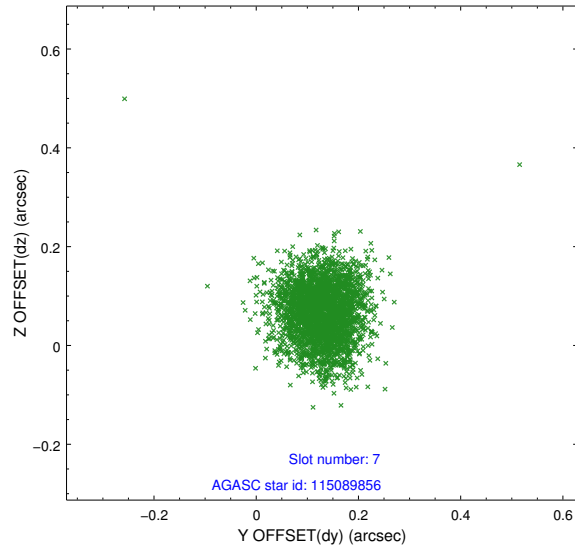
2.4.3 Slot 5



2.4.4 Slot 6

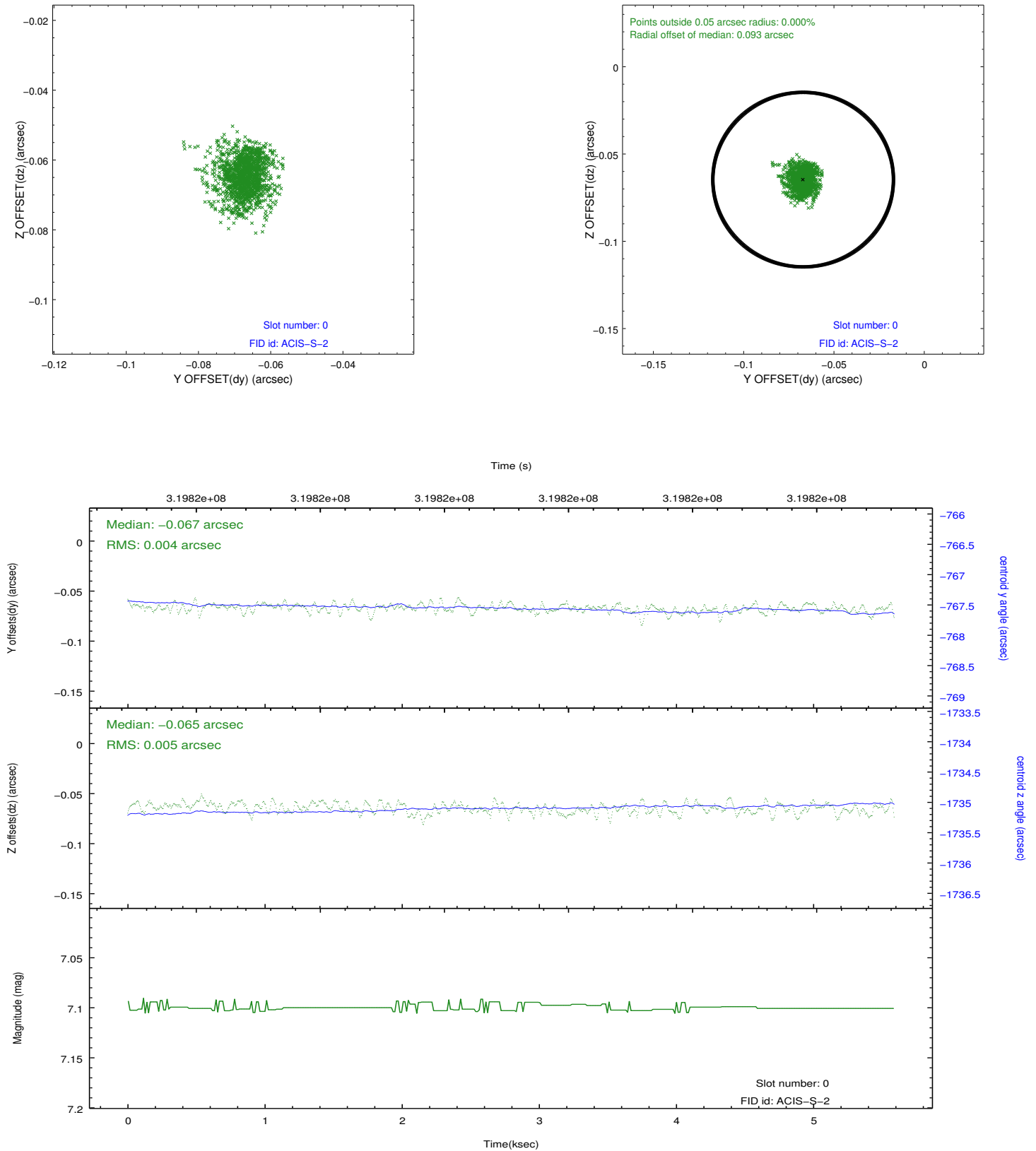


2.4.5 Slot 7

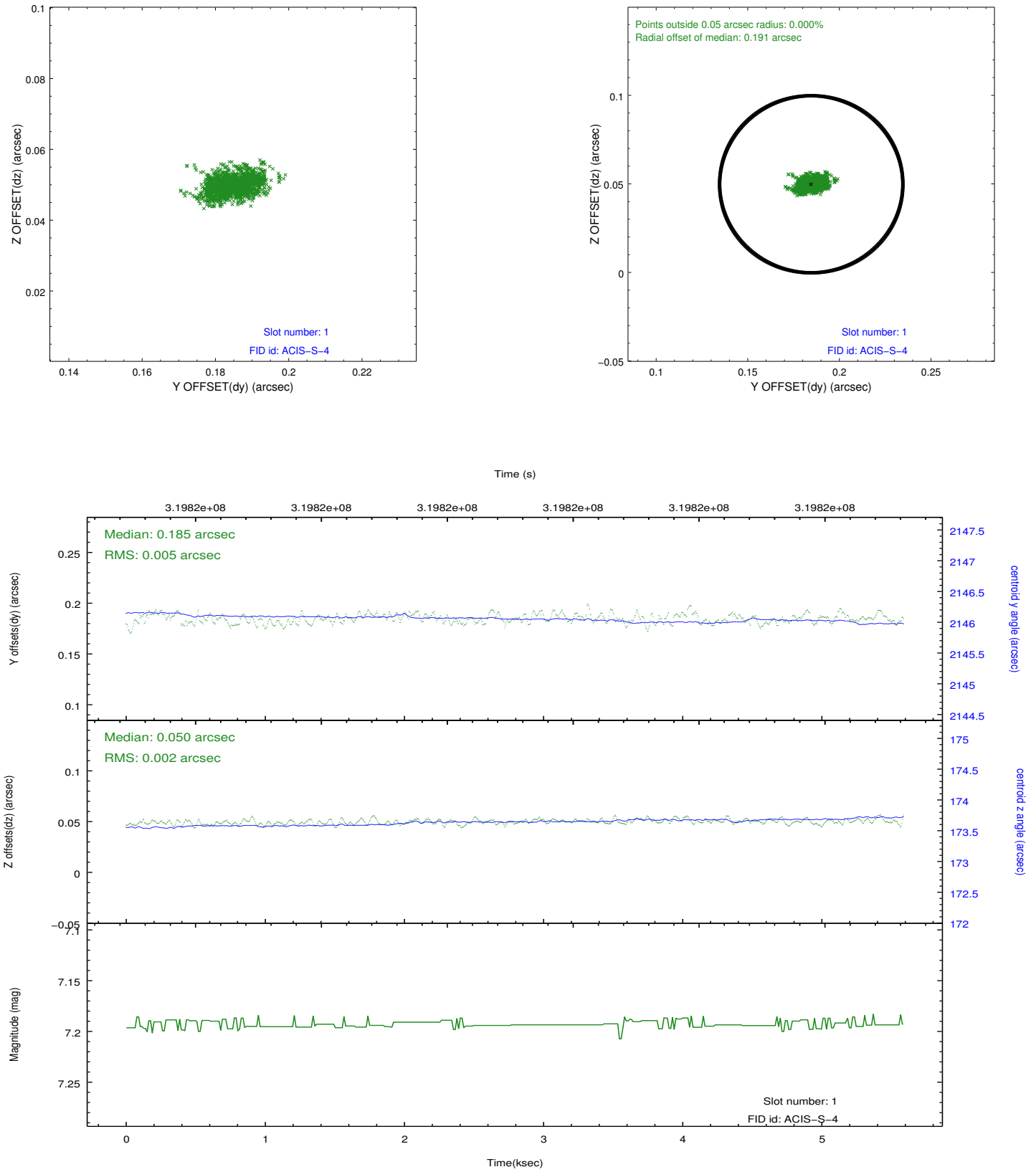


2.5 FID Slots

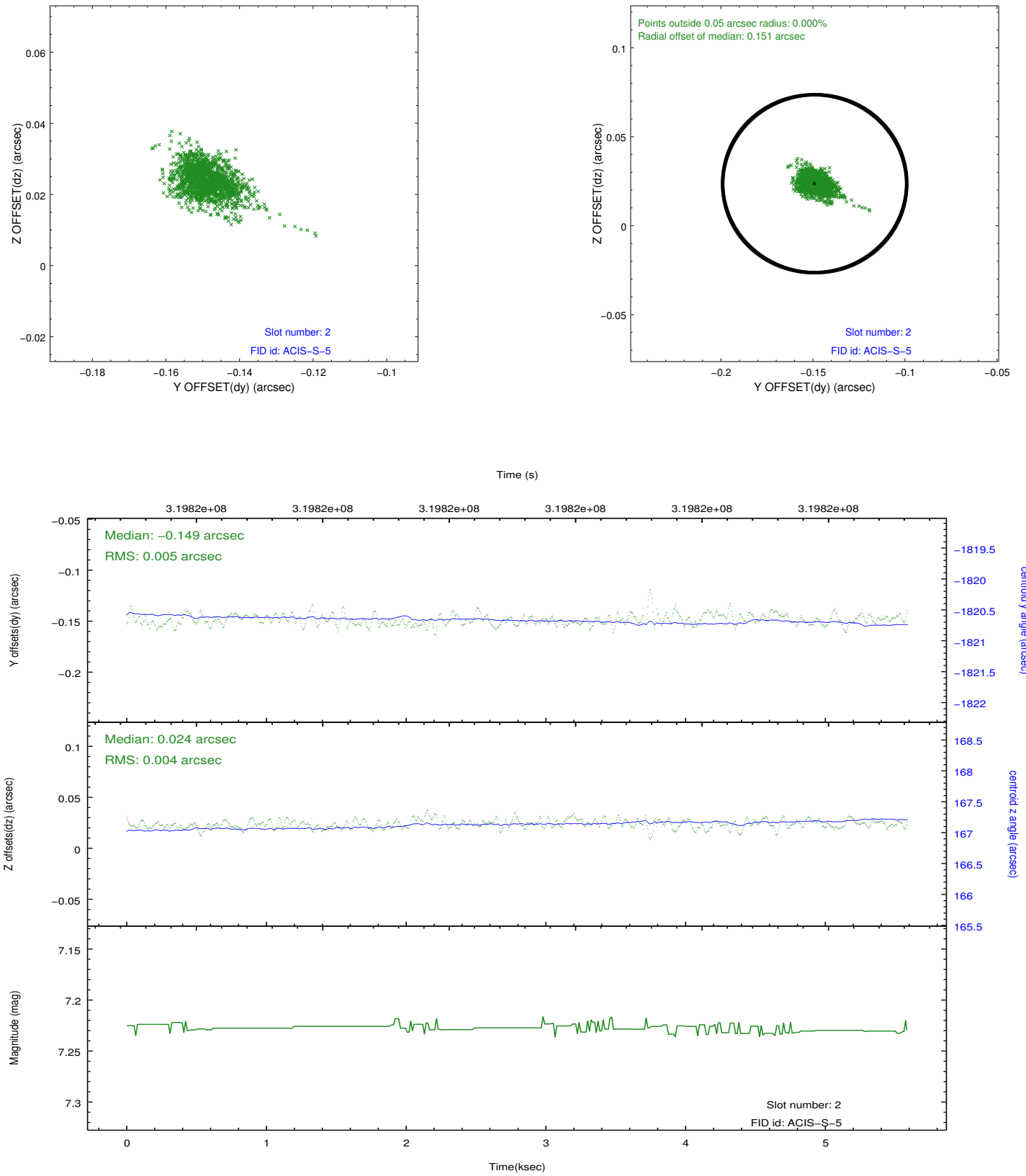
2.5.1 Slot 0



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)	2012.05.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15839998

A.2 Comments

Joint proposal with Spitzer.