

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8056 - L2 Version 2
Chandra X-Ray Center

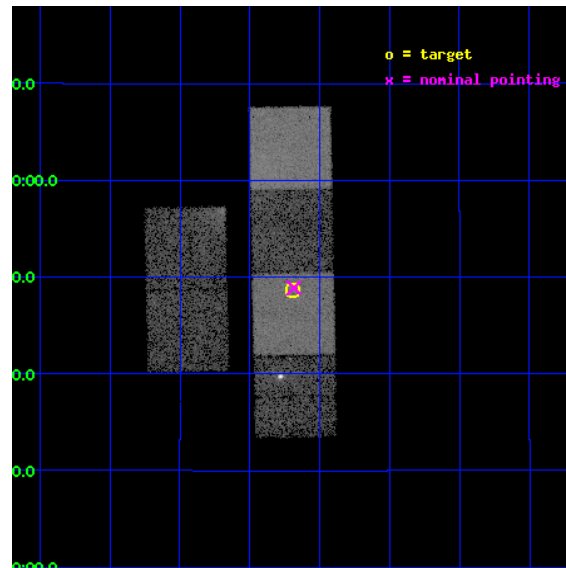
L2 Processing Date : May 9 2012

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

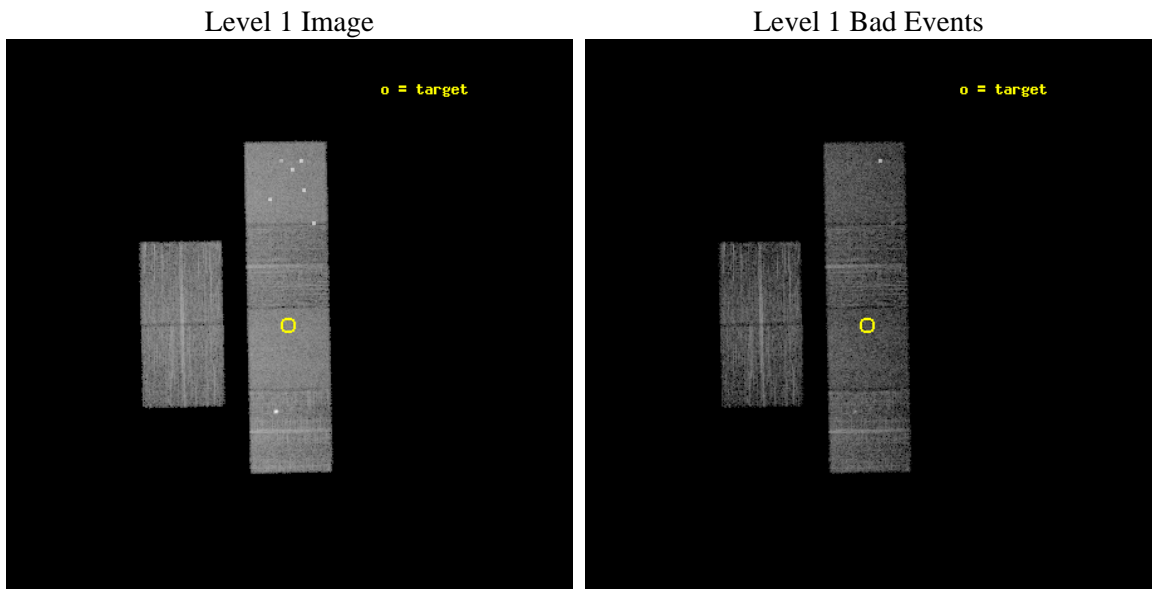
seq_num	900597	Sequence number
obs_id	8056	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	828	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.42375	Observer's specified target RA [deg]
dec_targ	12.810556	Observer's specified target Dec [deg]
ra_nom	186.42118341716	Nominal RA [deg]
dec_nom	12.814851500043	Nominal Dec [deg]
roll_nom	88.856710575552	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5158.3999808431	Sum of GTIs [s]
livetime	5093.0812142701	Livetime [s]
ontime2	5158.3999808431	Sum of GTIs [s]
ontime3	5158.3999808431	Sum of GTIs [s]
ontime5	5158.3999808431	Sum of GTIs [s]
ontime6	5158.3999808431	Sum of GTIs [s]
ontime7	5158.3999808431	Sum of GTIs [s]
ontime8	5155.1589605808	Sum of GTIs [s]
l2events	98233	Number of level 2 events



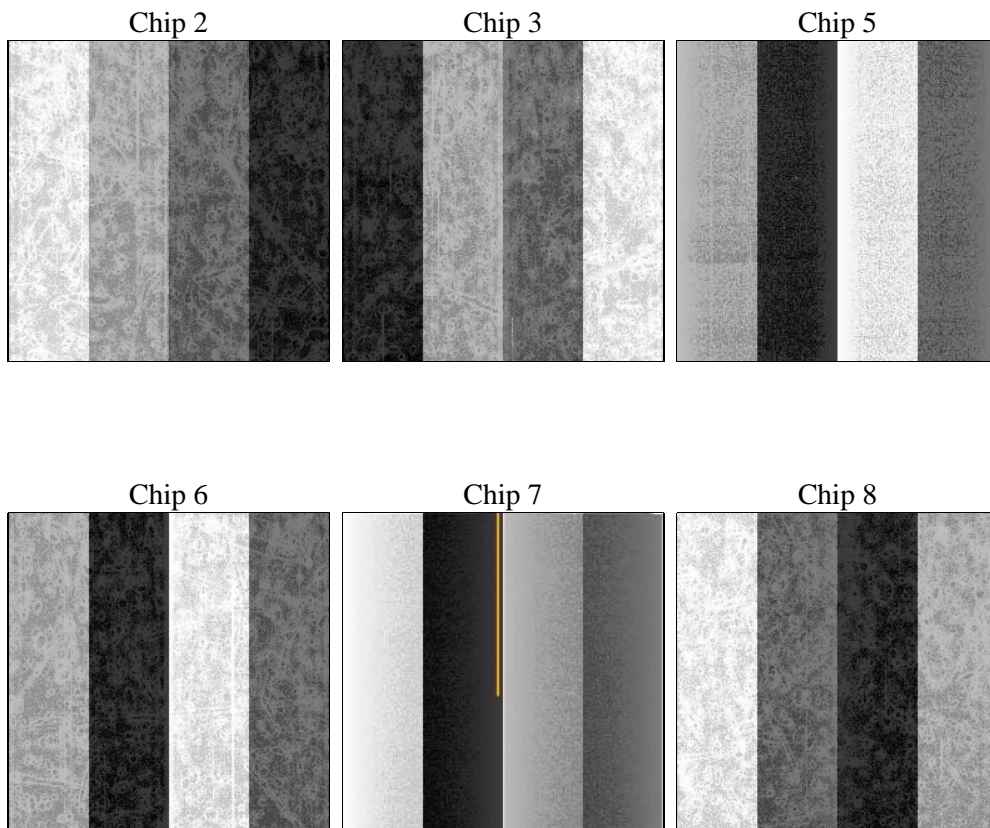
2 OBI

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	5158.3999808431	Sum of GTIs [s]
caldsver	4.4.9	 	ontime2	5158.3999808431	Sum of GTIs [s]
date	2012-05-09T19:31:35	Date and time of file creation	ontime3	5158.3999808431	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5158.3999808431	Sum of GTIs [s]
			ontime6	5158.3999808431	Sum of GTIs [s]
			ontime7	5158.3999808431	Sum of GTIs [s]
			ontime8	5155.1589605808	Sum of GTIs [s]
			l1events	386891	Number of level 1 events

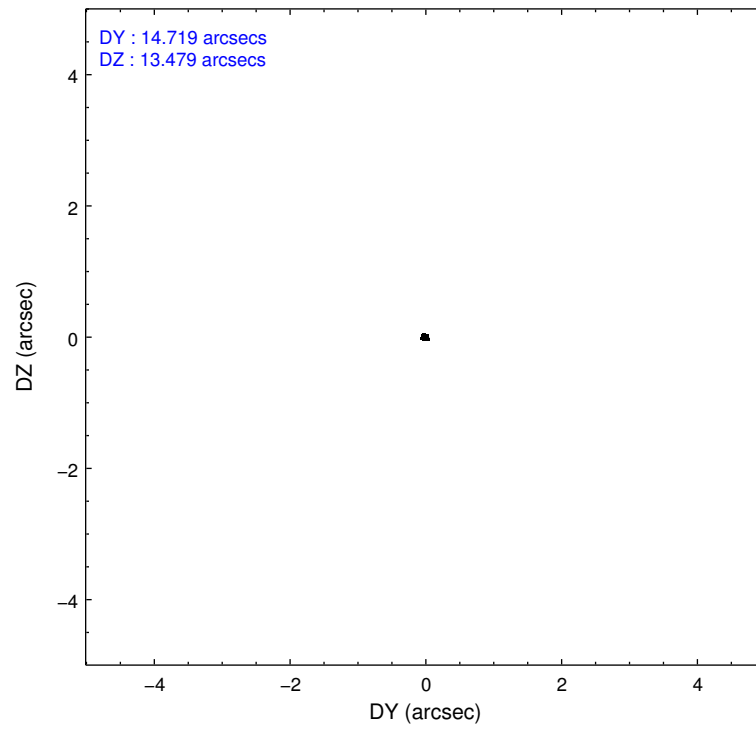
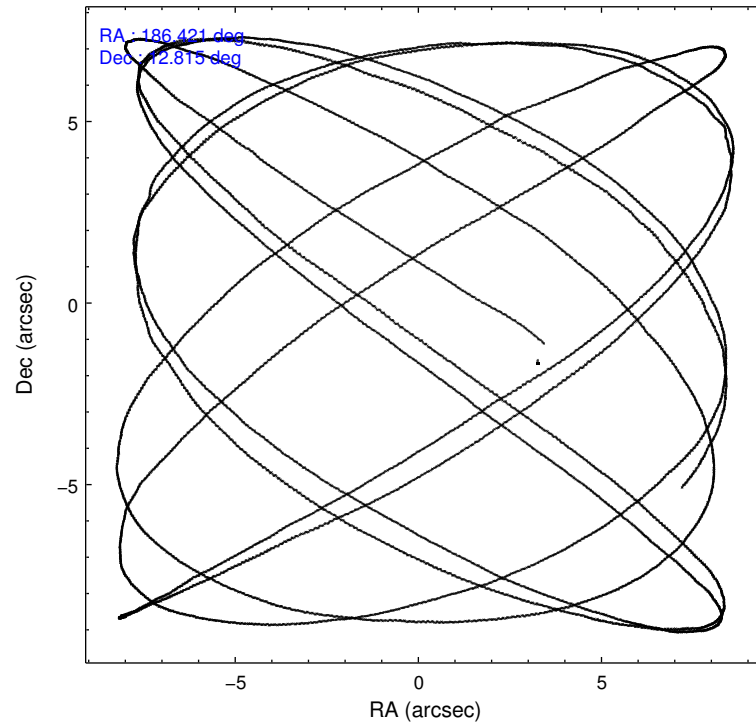
2.1.4 Events

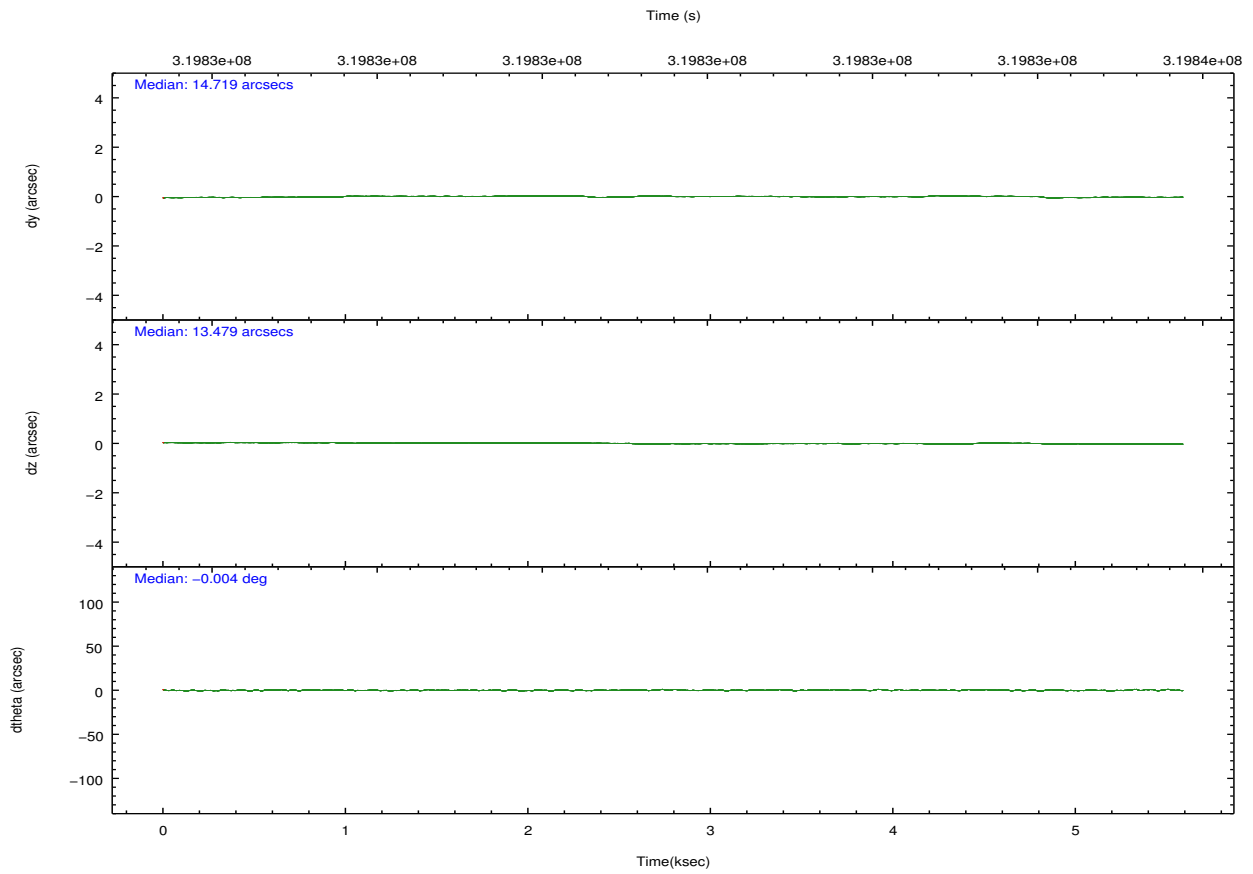
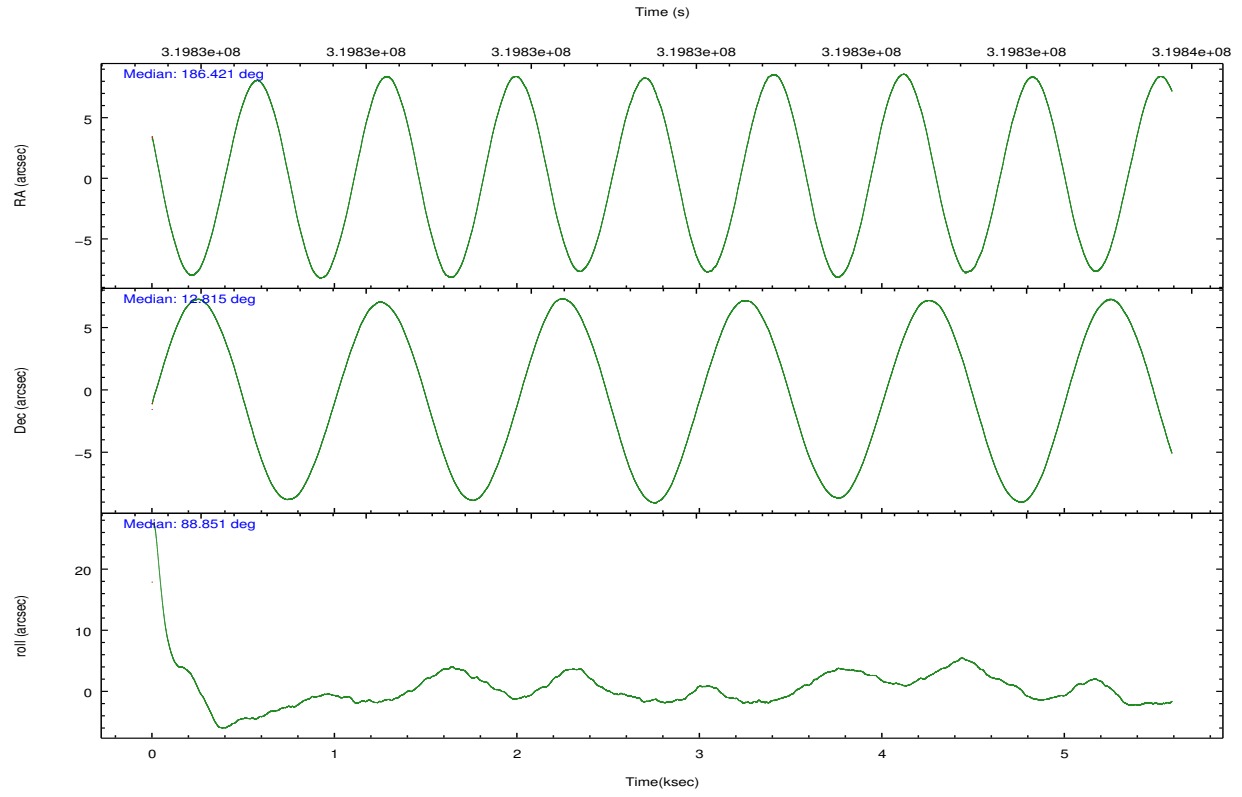
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	54080	51040	87725	52319	70094	71633	grade 0 events	4983	3554	8628	4466	3014	7538
rejected events	45335	44082	42926	43858	40291	52792		9%	6%	9%	8%	4%	10%
rejected %	83%	86%	48%	83%	57%	73%	grade 1 events	41	48	103	36	70	94
								0%	0%	0%	0%	0%	0%
							grade 2 events	1494	1261	12543	1527	6241	4025
								2%	2%	14%	2%	8%	5%
							grade 3 events	626	576	1557	614	2598	1642
								1%	1%	1%	1%	3%	2%
							grade 4 events	616	587	1532	612	2613	1568
								1%	1%	1%	1%	3%	2%
							grade 5 events	2021	2317	5512	2294	6363	3113
								3%	4%	6%	4%	9%	4%
							grade 6 events	1035	983	20569	1247	15349	4074
								1%	1%	23%	2%	21%	5%
							grade 7 events	43264	41714	37281	41523	33846	49579
								80%	81%	42%	79%	48%	69%

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	186.435094	186.4211834171589	CCD I2 on	O1	Y
[deg] Pointing Dec	12.790969	12.81485150004257	CCD I3 on	O2	Y
[deg] Pointing Roll	88.696934	88.85671057555241	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)	319829182.184000	319828726.51119	CCD S5 on	N	N
Observation start date	2008-02-19T17:25:17	2008-02-19T17:18:46	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319834582.184000	319834731.98648	On-chip summing requested	N	N
Observation end date	2008-02-19T18:55:17	2008-02-19T18:58:51	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



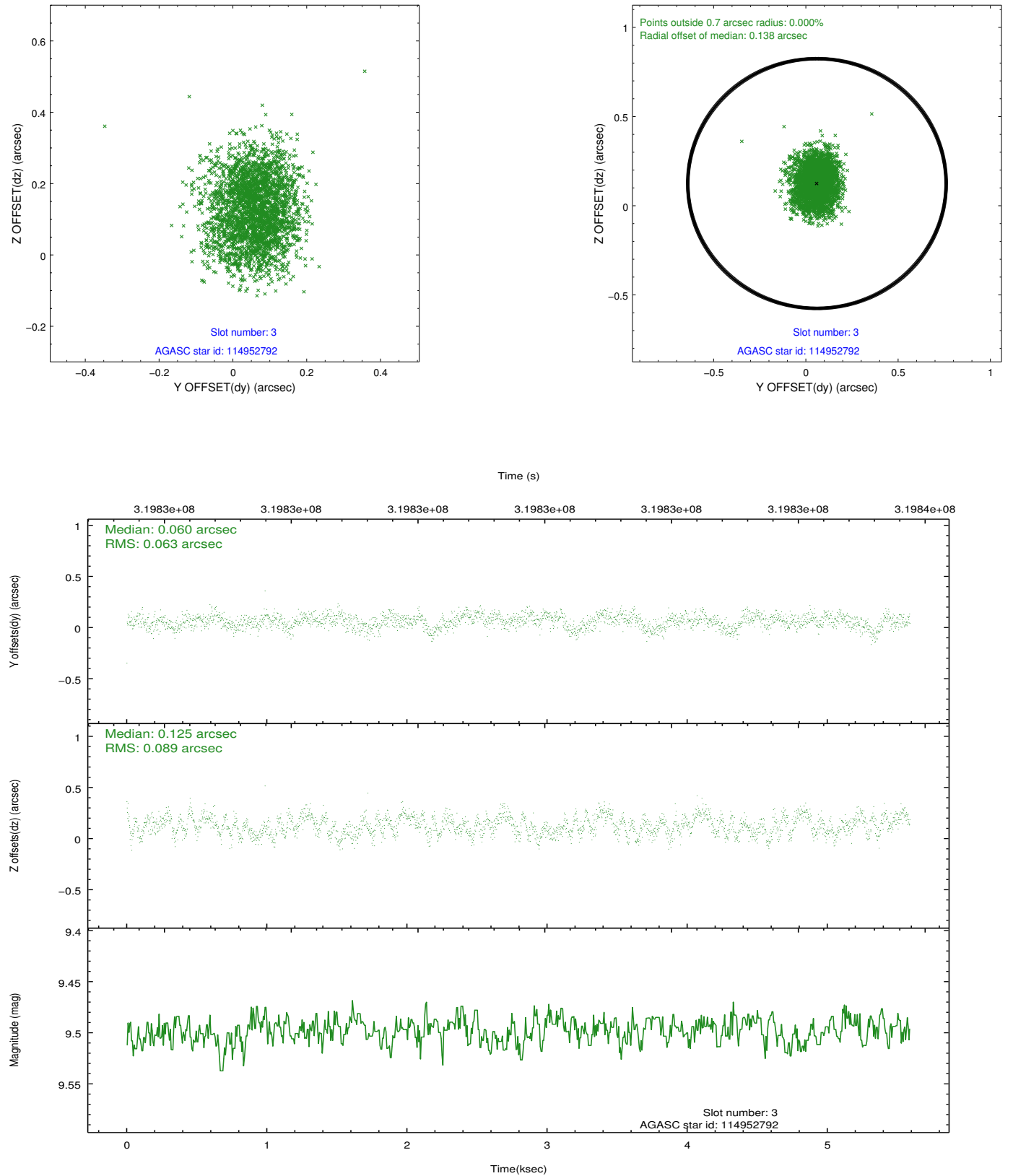


Slot Statistics

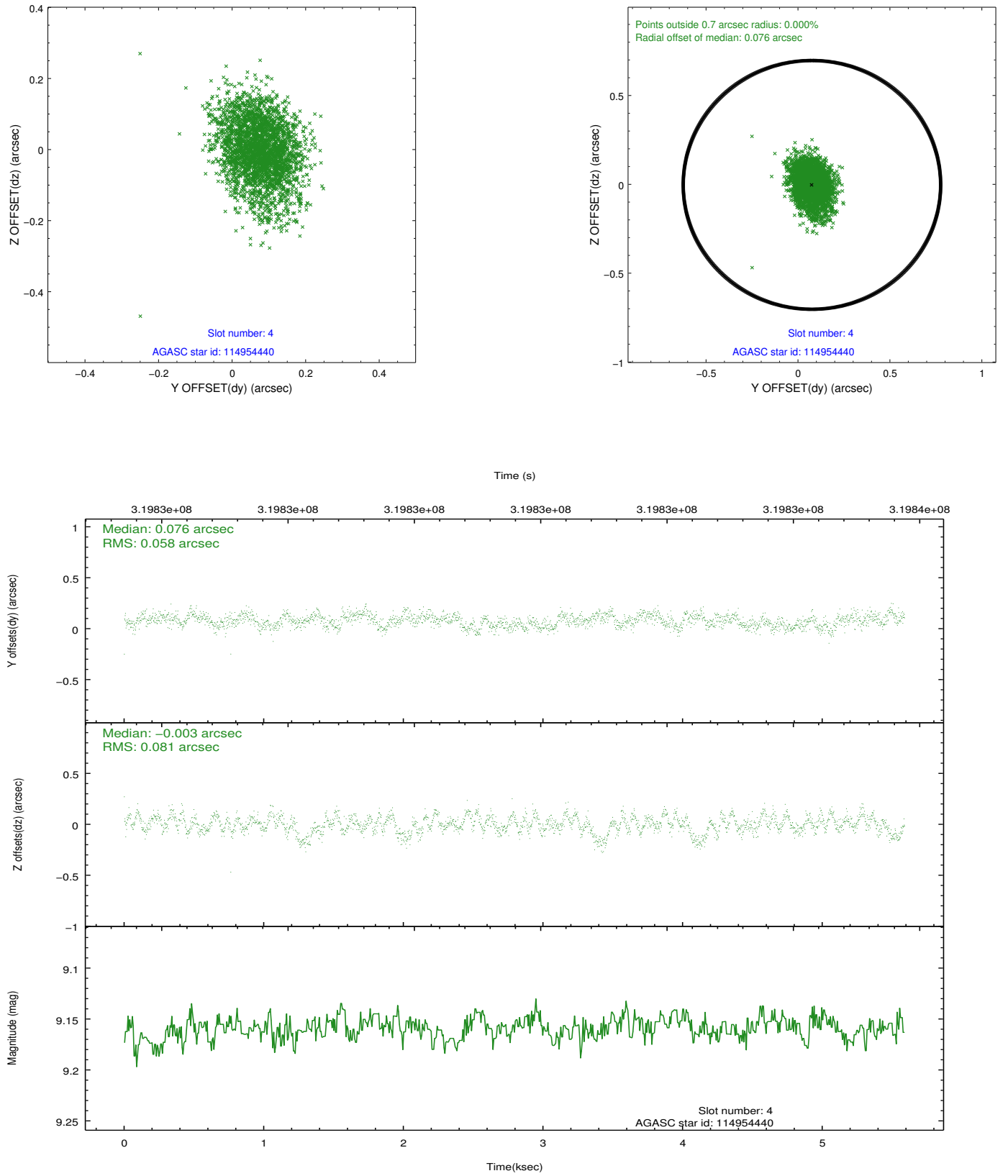
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1364	-0.072	-0.072	0.007	0.011	0.000000	0.000000	-767.76	-1734.88
1	FID	ACIS-S-4	7.20	1364	0.194	0.054	0.005	0.010	0.000000	0.000000	2145.31	172.59
2	FID	ACIS-S-5	7.23	1364	-0.153	0.027	0.007	0.011	0.000000	0.000000	-1819.29	167.49
3	GUIDE	114952792	9.50	2726	0.060	0.125	0.116	0.185	187.070263	12.344747	-1552.77	-2268.91
4	GUIDE	114954440	9.16	2719	0.076	-0.003	0.103	0.175	186.915066	12.219118	-2018.85	-1736.88
5	GUIDE	115214648	9.07	2727	-0.029	-0.081	0.101	0.168	185.771147	12.685188	-431.84	2322.08
6	GUIDE	115347480	9.71	2723	-0.146	0.107	0.105	0.169	186.668576	13.310410	1888.16	-773.96
7	GUIDE	115347400	10.22	2724	0.042	-0.147	0.174	0.306	186.994146	13.445598	2403.36	-1903.12

2.4 Star Slots

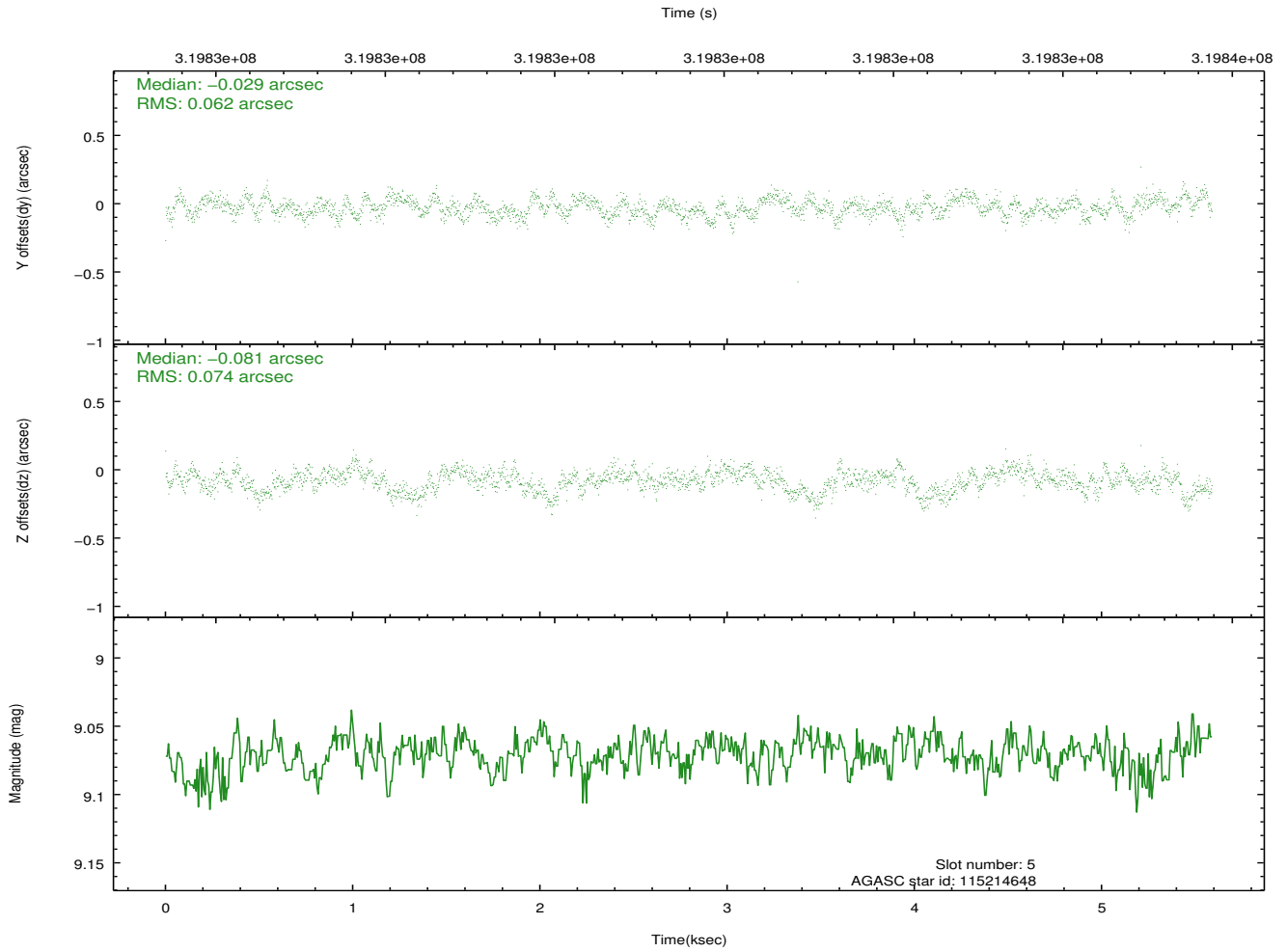
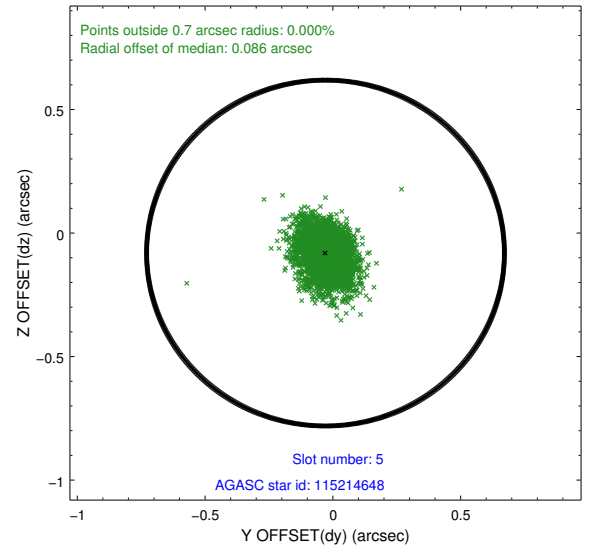
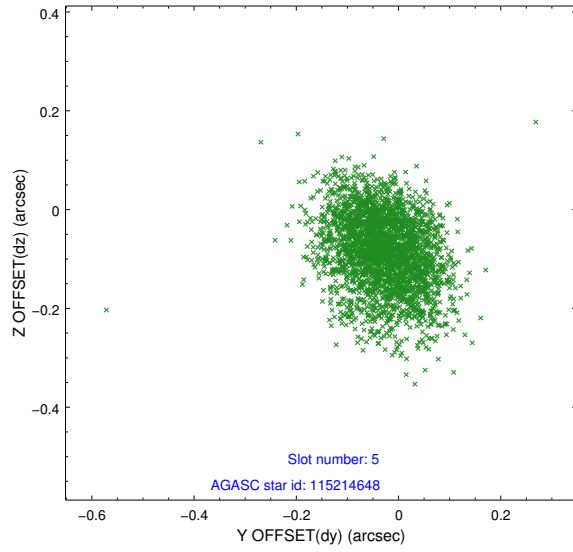
2.4.1 Slot 3



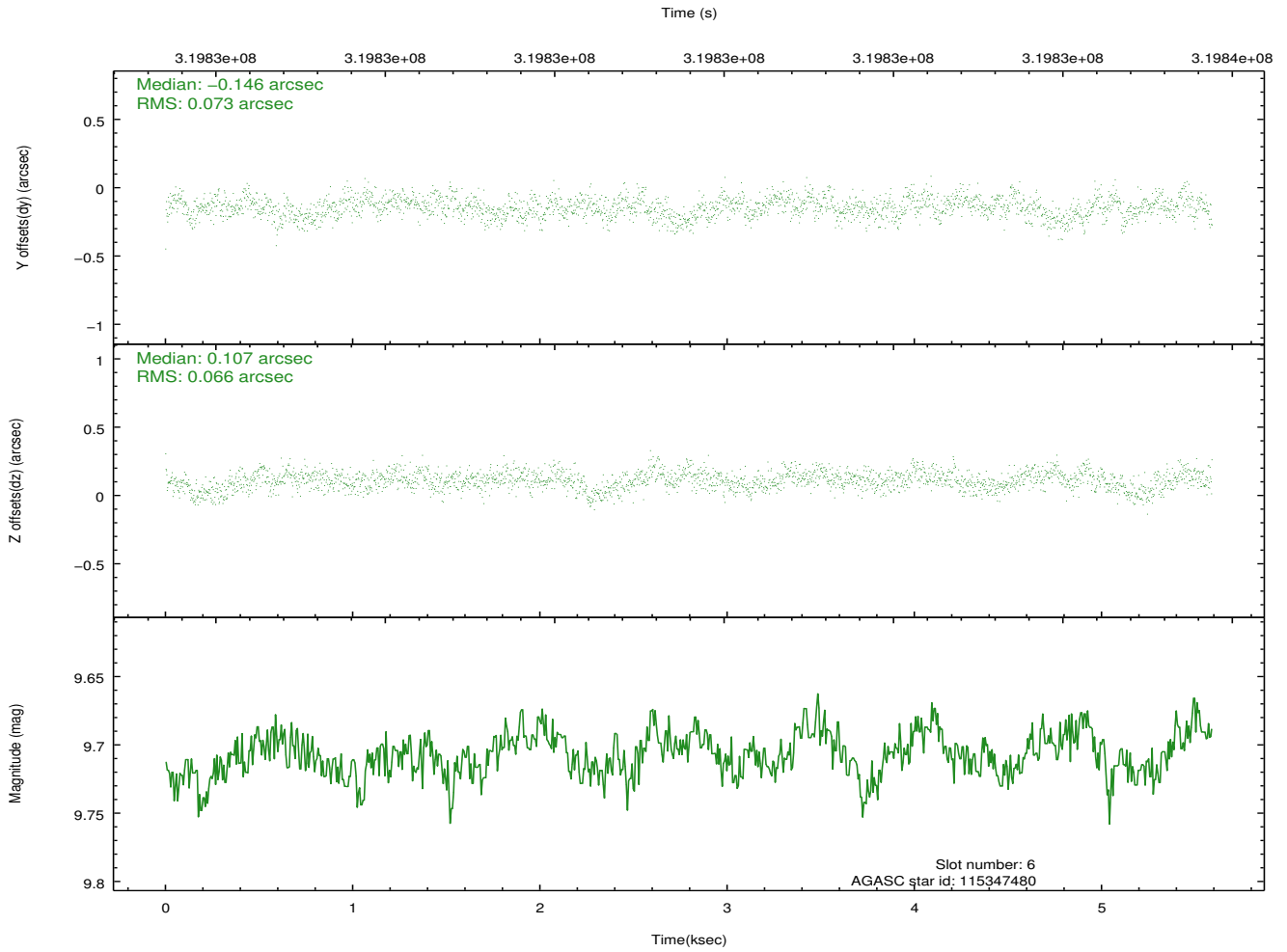
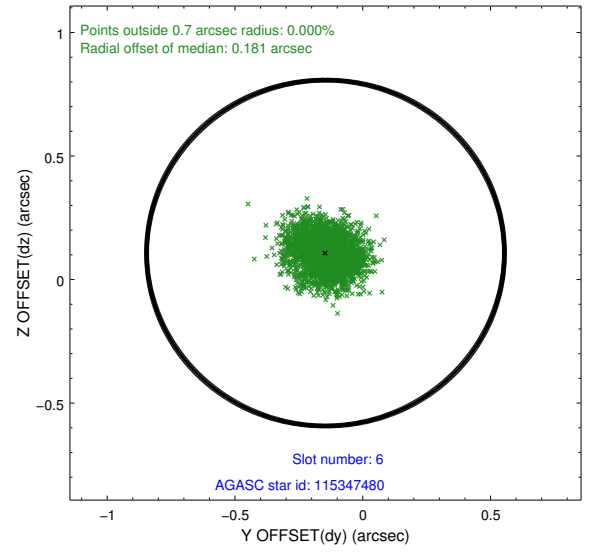
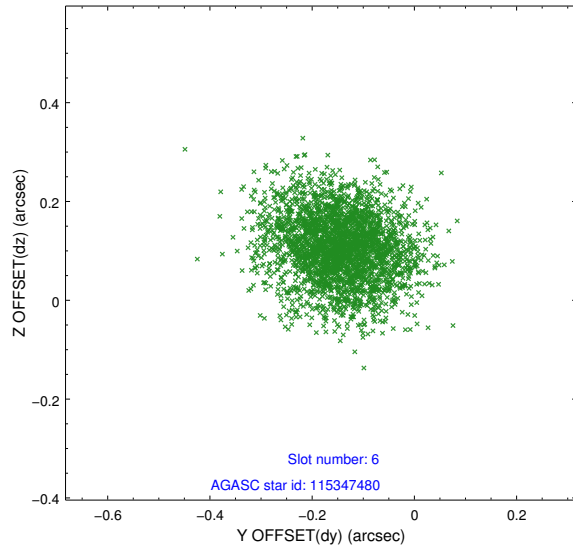
2.4.2 Slot 4



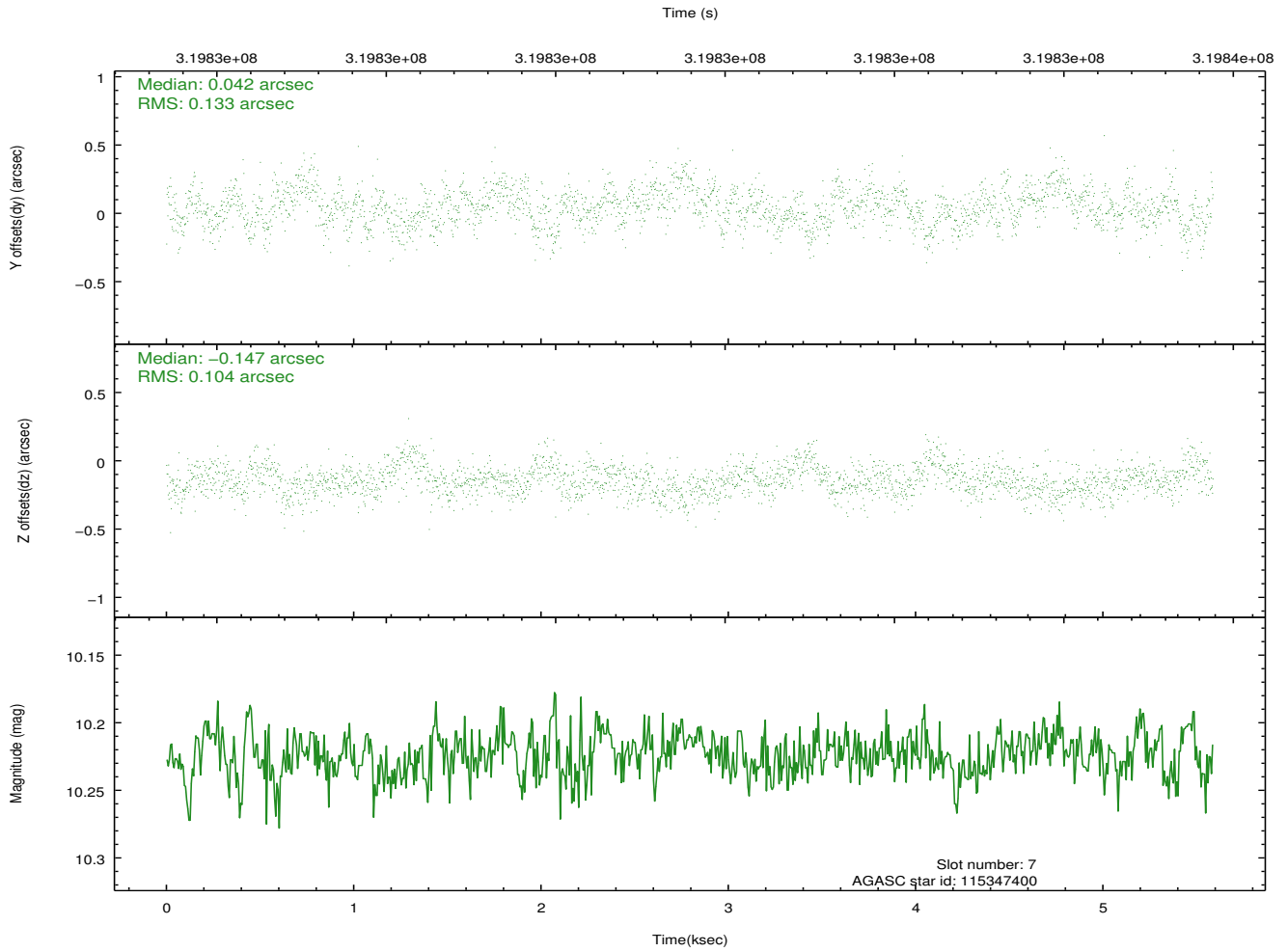
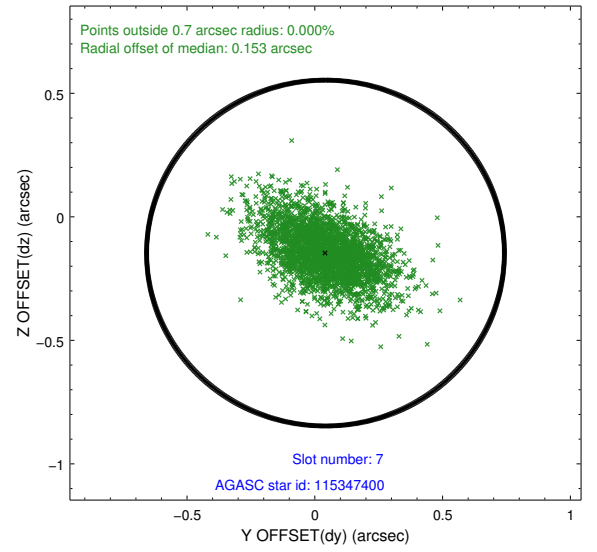
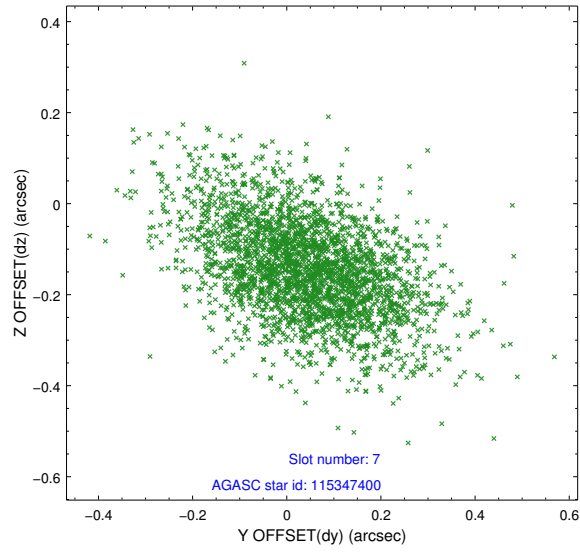
2.4.3 Slot 5



2.4.4 Slot 6

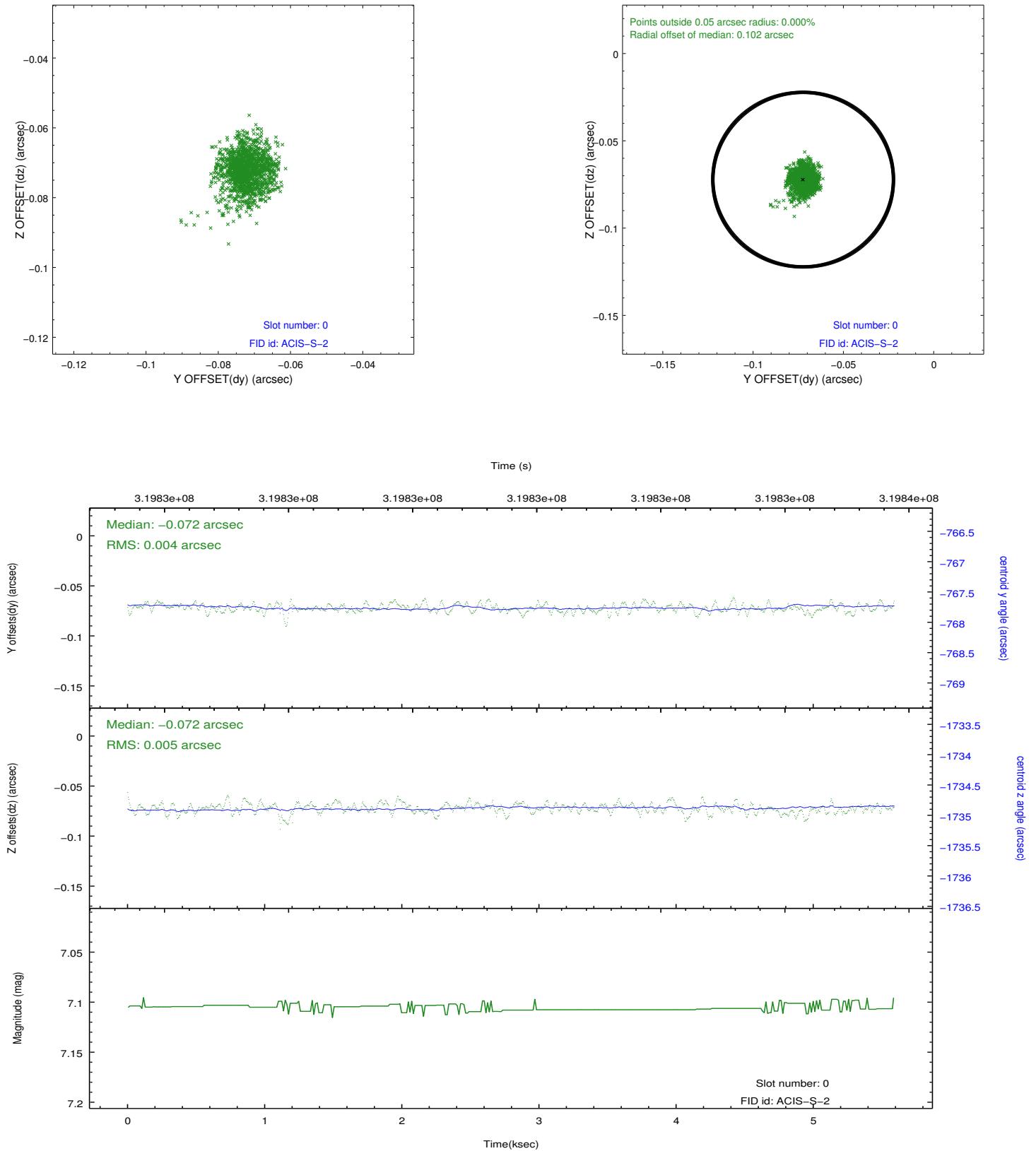


2.4.5 Slot 7

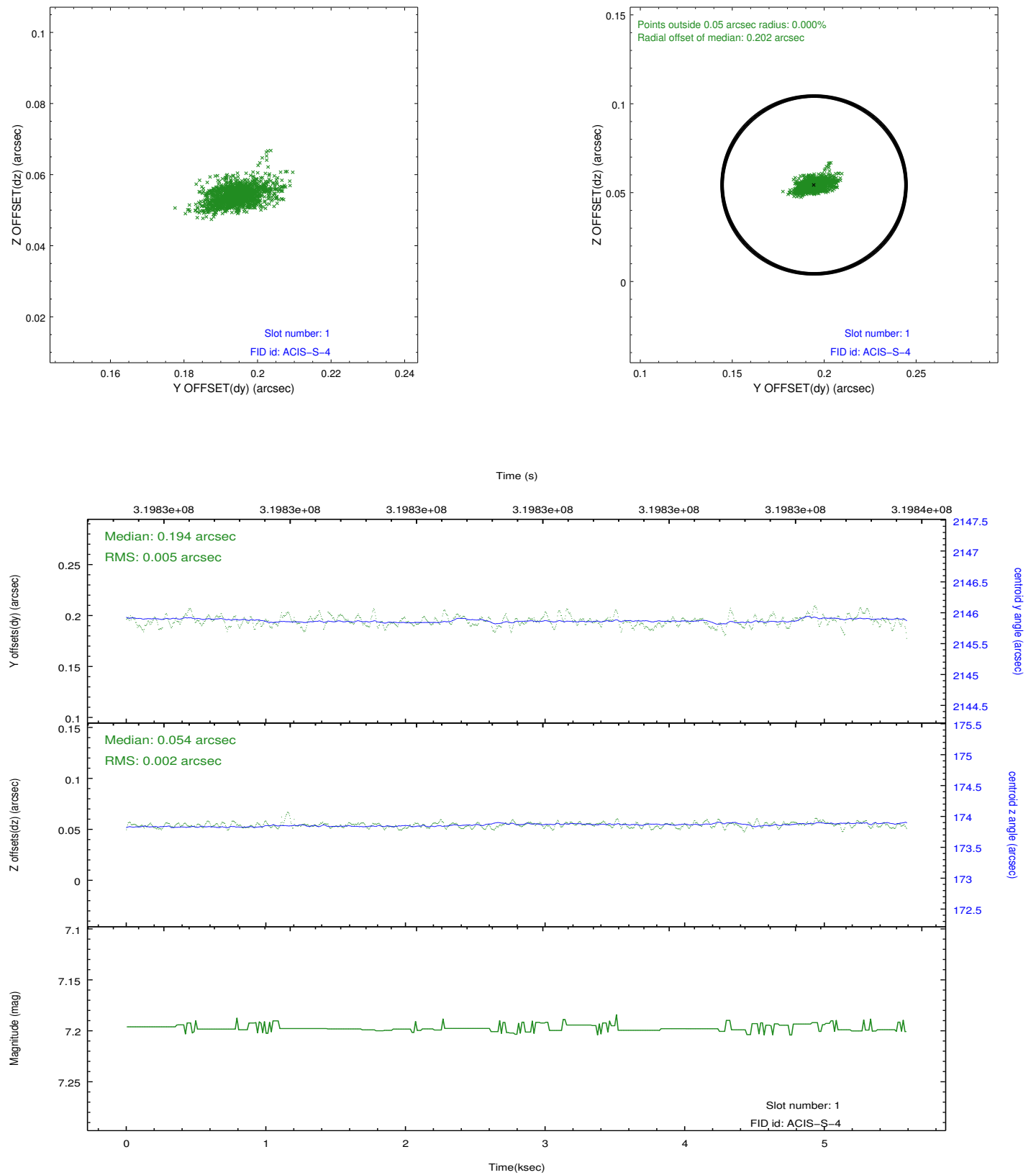


2.5 FID Slots

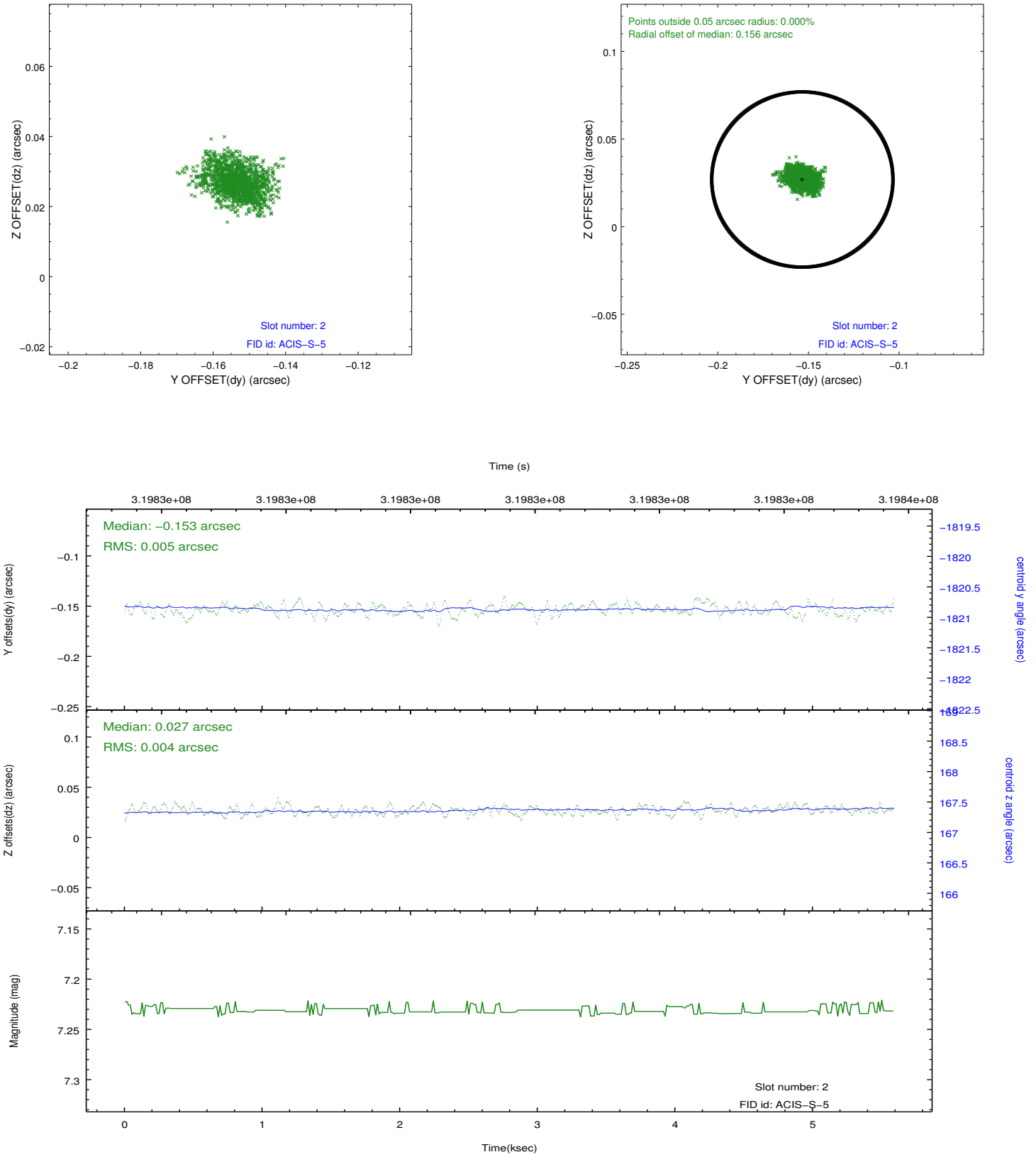
2.5.1 Slot 0



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)	2012.05.14
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.15839998

A.2 Comments

Joint proposal with Spitzer.