

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 8055 - L2 Version 2
Chandra X-Ray Center

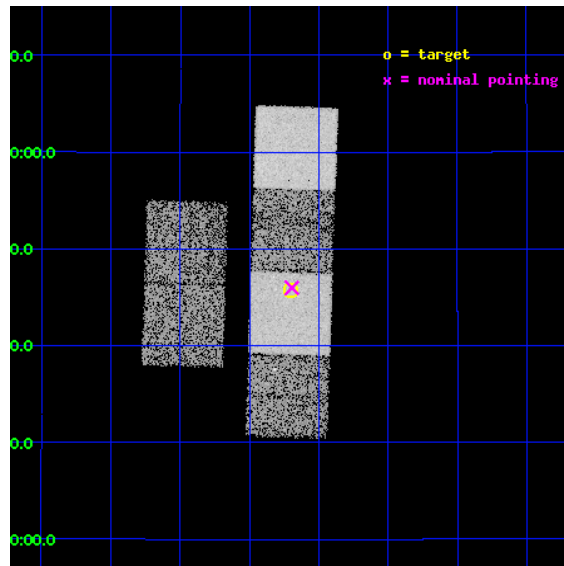
L2 Processing Date : May 9 2012

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1 Front

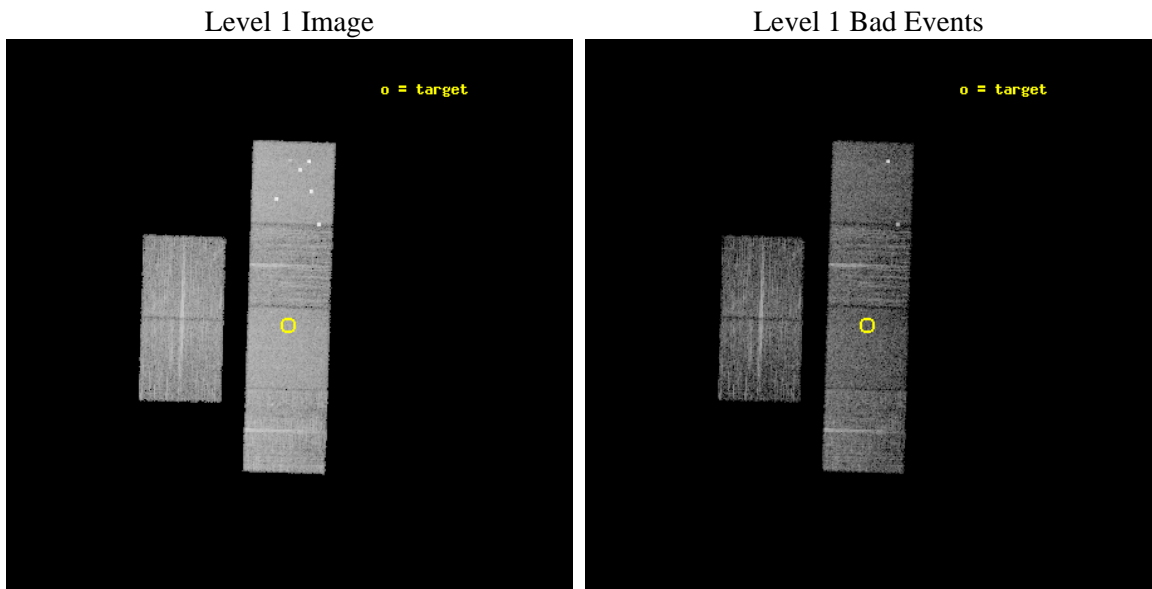
seq_num	900596	Sequence number
obs_id	8055	Observation id
title	The Duty Cycle of Supermassive Black Holes: X-raying Virgo	Proposa
observer	Prof Tommaso Treu	Principal investigator
object	778	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.30125	Observer's specified target RA [deg]
dec_targ	14.762167	Observer's specified target Dec [deg]
ra_nom	186.29848069597	Nominal RA [deg]
dec_nom	14.766331821971	Nominal Dec [deg]
roll_nom	91.79848061816	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5157.3540512323	Sum of GTIs [s]
livetime	5092.0485288498	Livetime [s]
ontime2	5157.3950912356	Sum of GTIs [s]
ontime3	5157.2309312224	Sum of GTIs [s]
ontime5	5157.313011229	Sum of GTIs [s]
ontime6	5157.2719712257	Sum of GTIs [s]
ontime7	5157.3540512323	Sum of GTIs [s]
ontime8	5153.9488414526	Sum of GTIs [s]
l2events	83829	Number of level 2 events



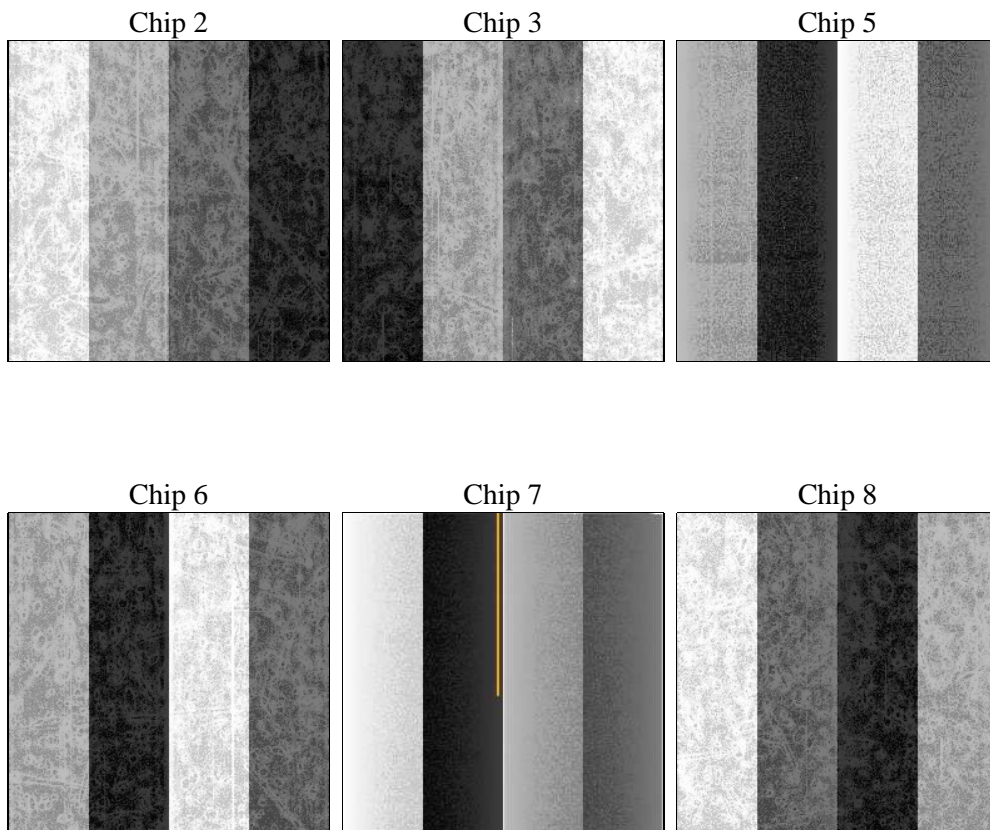
2 OBI

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	5157.3540512323	Sum of GTIs [s]
caldbver	4.4.9	 	ontime2	5157.3950912356	Sum of GTIs [s]
date	2012-05-09T19:30:07	Date and time of file creation	ontime3	5157.2309312224	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	5157.313011229	Sum of GTIs [s]
			ontime6	5157.2719712257	Sum of GTIs [s]
			ontime7	5157.3540512323	Sum of GTIs [s]
			ontime8	5153.9488414526	Sum of GTIs [s]
			l1events	369654	Number of level 1 events

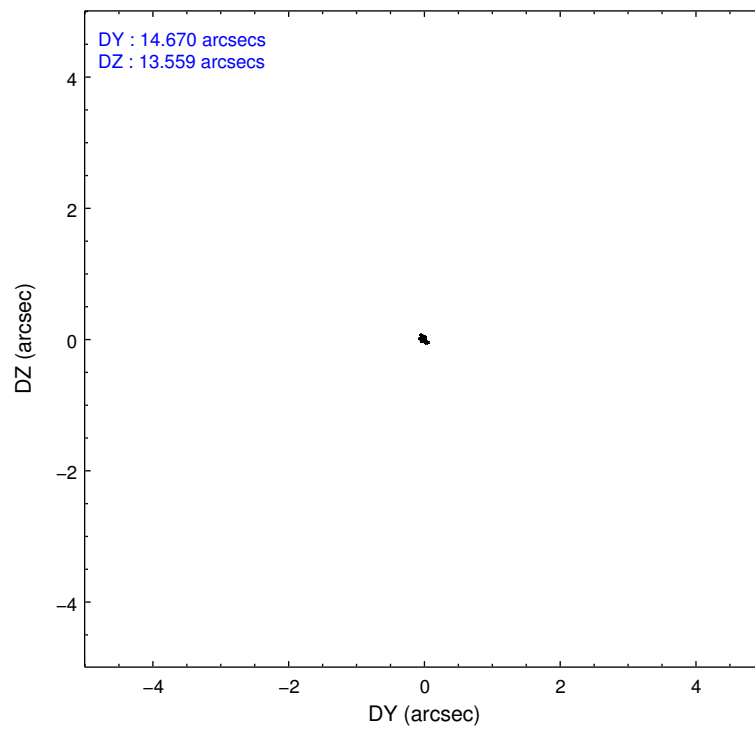
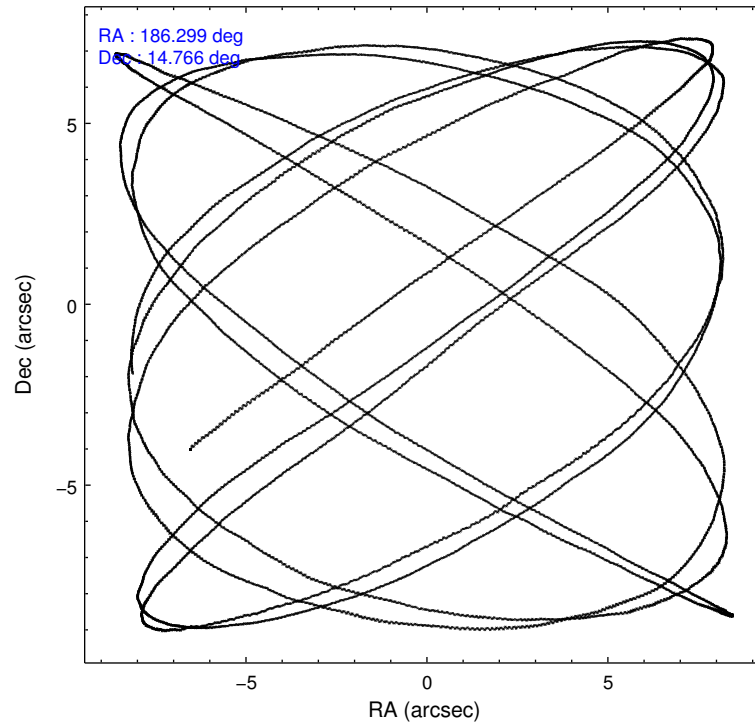
2.1.4 Events

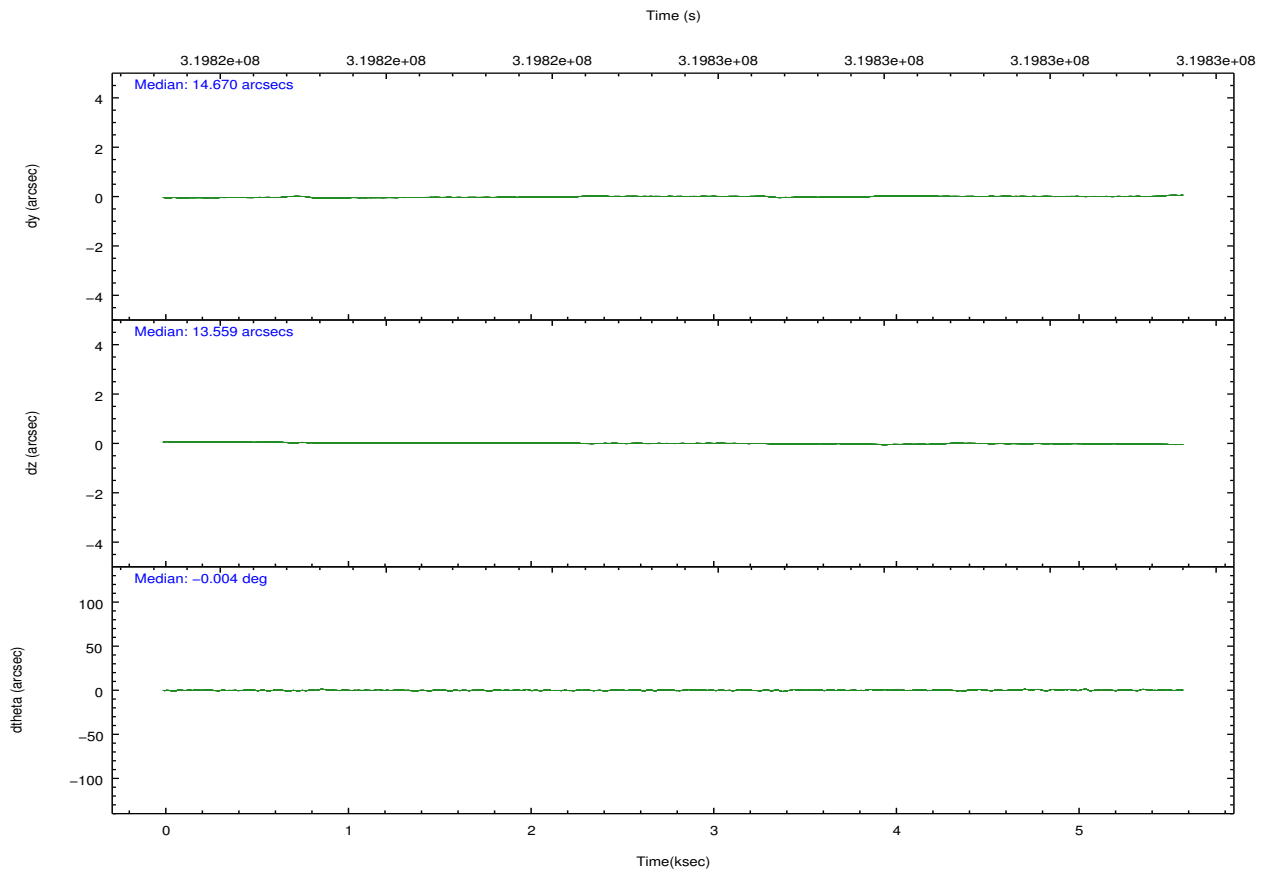
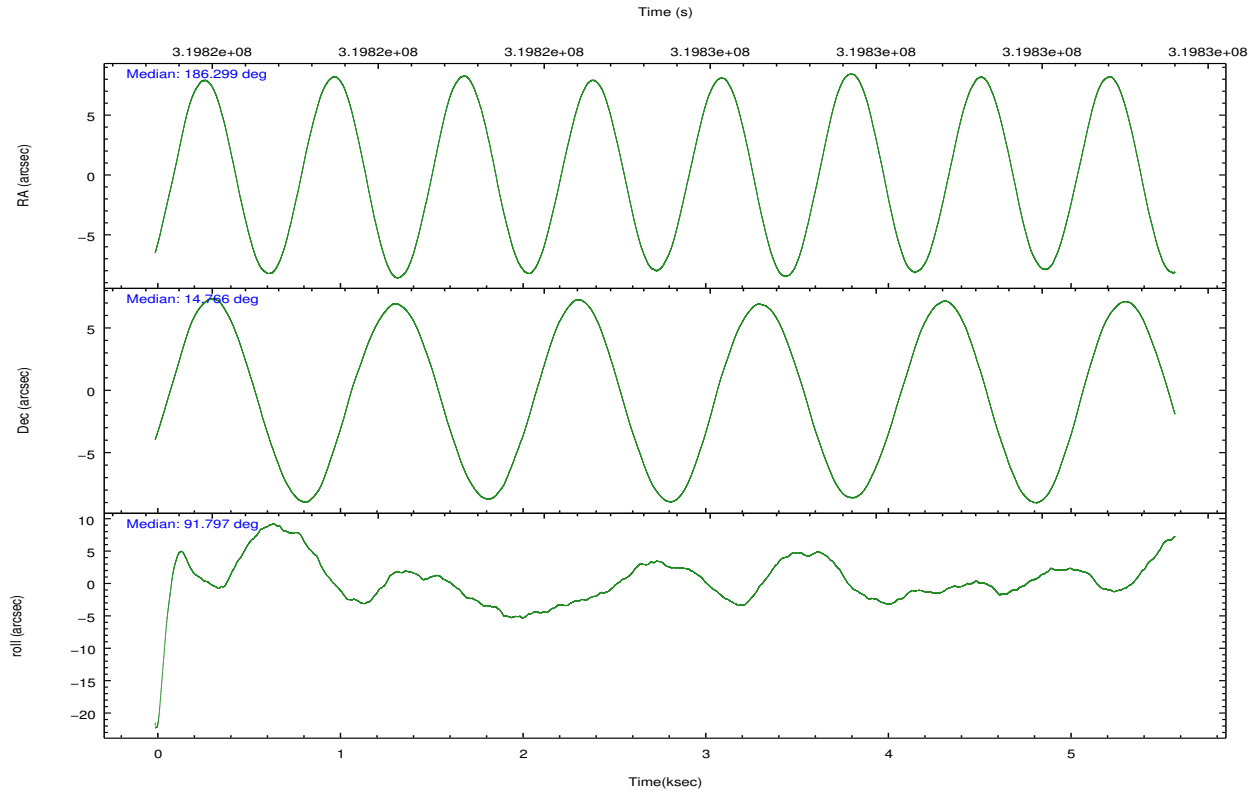
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	50657	49098	82835	51489	68777	66798	grade 0 events	2595	2843	6561	2649	2628	4947
rejected events	44693	42997	42728	45059	39722	51845		5%	5%	7%	5%	3%	7%
rejected %	88%	87%	51%	87%	57%	77%	grade 1 events	48	43	170	34	74	47
								0%	0%	0%	0%	0%	0%
							grade 2 events	1326	1141	11423	1431	5902	3144
								2%	2%	13%	2%	8%	4%
							grade 3 events	523	550	1339	578	2533	1589
								1%	1%	1%	1%	3%	2%
							grade 4 events	530	562	1249	550	2359	1448
								1%	1%	1%	1%	3%	2%
							grade 5 events	1934	2314	5855	2404	6432	3062
								3%	4%	7%	4%	9%	4%
							grade 6 events	994	1014	19583	1230	15667	3837
								1%	2%	23%	2%	22%	5%
							grade 7 events	42707	40631	36655	42613	33182	48724
								84%	82%	44%	82%	48%	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	186.313712	186.2984806959706	CCD I2 on	O1	Y
[deg] Pointing Dec	14.743171	14.7663318219711	CCD I3 on	O2	Y
[deg] Pointing Roll	91.637980	91.79848061816003	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)	319823112.184000	319822596.49839	CCD S5 on	N	N
Observation start date	2008-02-19T15:44:07	2008-02-19T15:36:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	319828512.184000	319828726.51119	On-chip summing requested	N	N
Observation end date	2008-02-19T17:14:07	2008-02-19T17:18:46	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



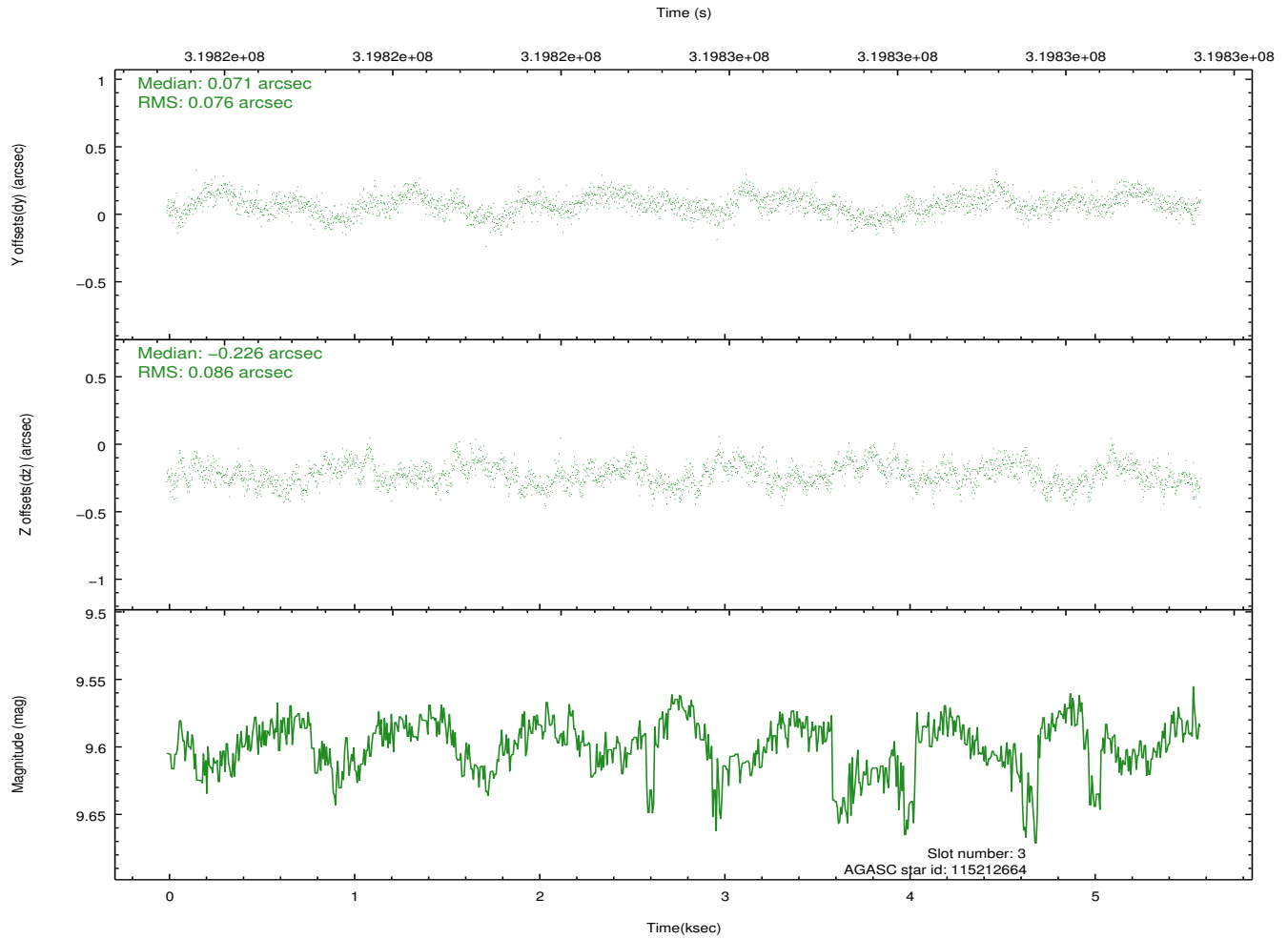
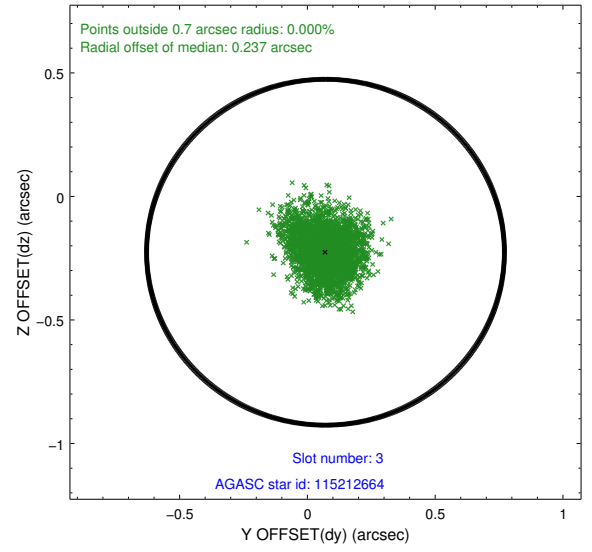
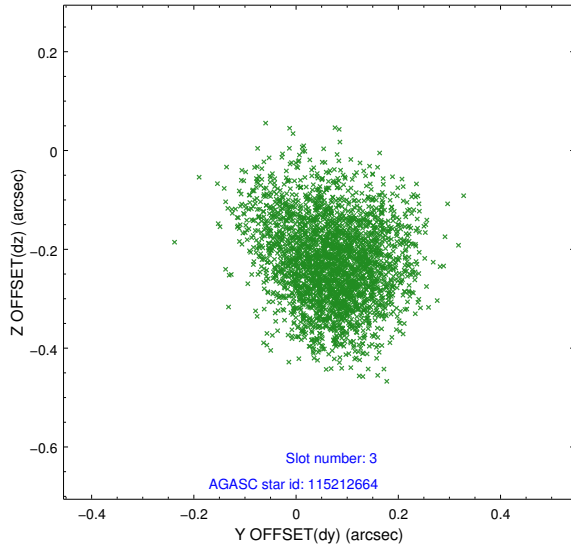


Slot Statistics

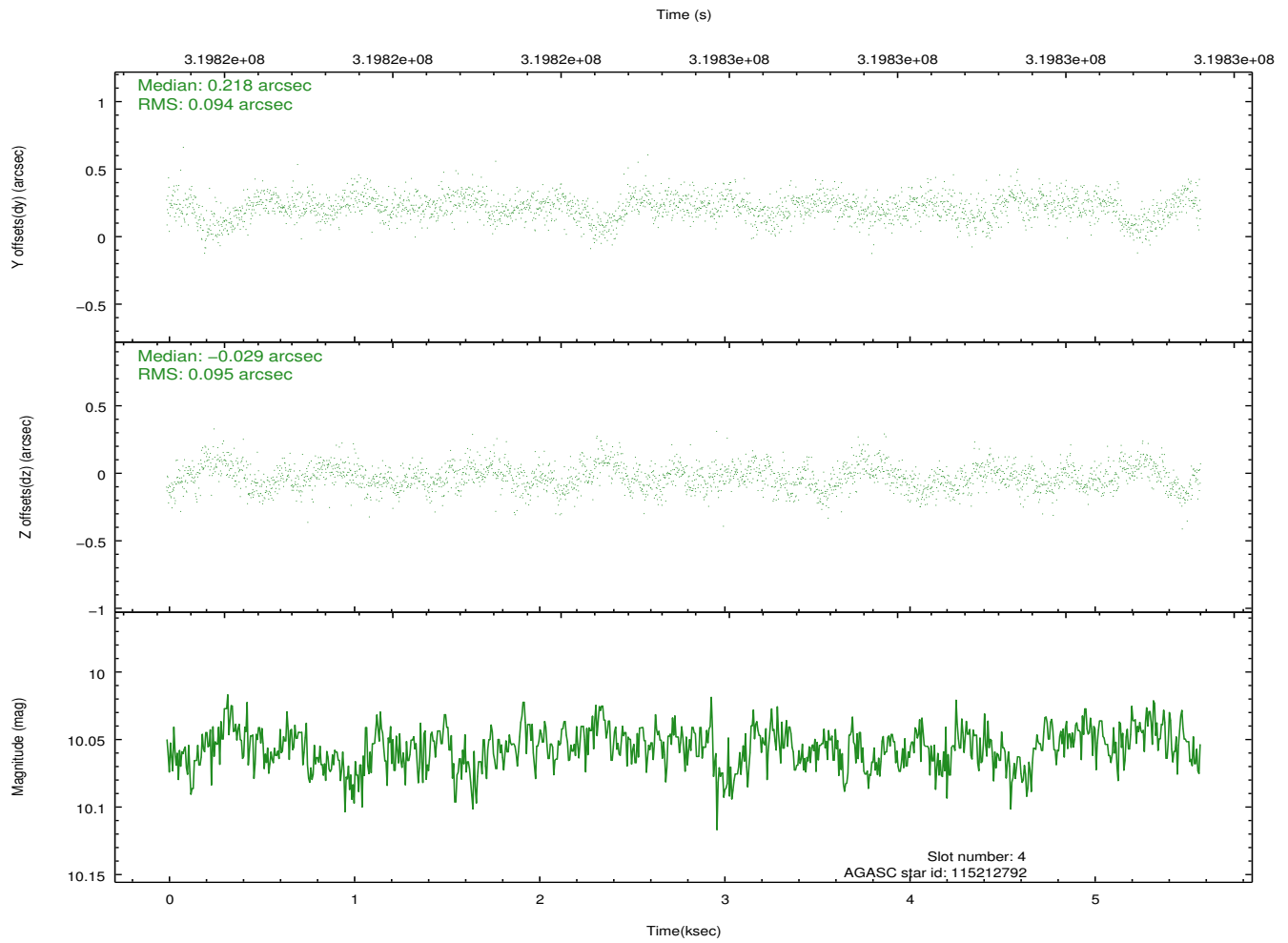
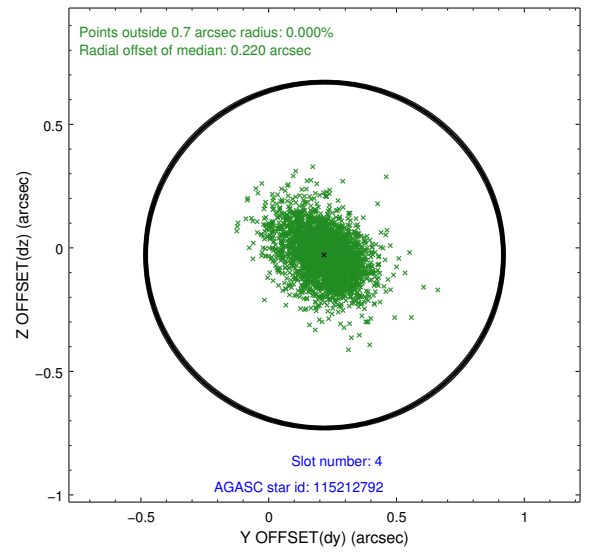
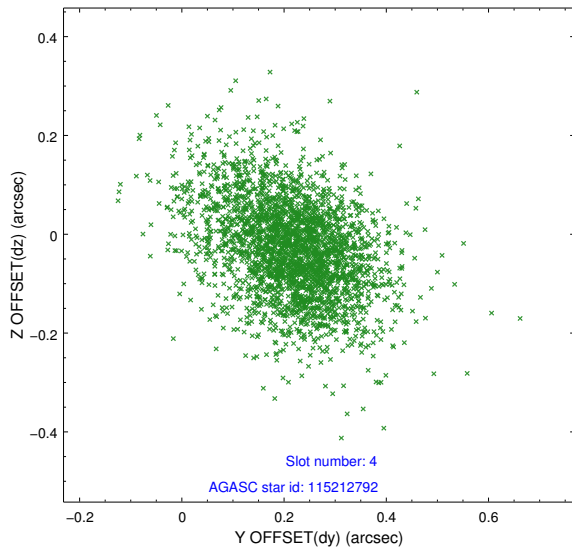
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	1362	-0.069	-0.070	0.006	0.010	0.000000	0.000000	-767.70	-1734.97
1	FID	ACIS-S-4	7.20	1362	0.189	0.052	0.005	0.009	0.000000	0.000000	2145.36	172.50
2	FID	ACIS-S-5	7.23	1362	-0.151	0.026	0.006	0.011	0.000000	0.000000	-1819.24	167.40
3	GUIDE	115212664	9.60	2721	0.071	-0.226	0.123	0.198	186.112214	14.500161	-854.95	727.46
4	GUIDE	115212792	10.06	2721	0.218	-0.029	0.138	0.241	185.976991	14.137385	-2145.84	1238.03
5	GUIDE	115344416	7.89	2652	-0.135	-0.036	0.087	0.153	186.624628	14.572004	-647.15	-1064.30
6	GUIDE	189399280	9.98	2704	-0.055	-0.045	0.135	0.222	186.536897	15.337958	2118.17	-835.65
7	GUIDE	189403320	10.01	2718	-0.100	0.329	0.133	0.216	186.650538	15.117423	1314.81	-1208.27

2.4 Star Slots

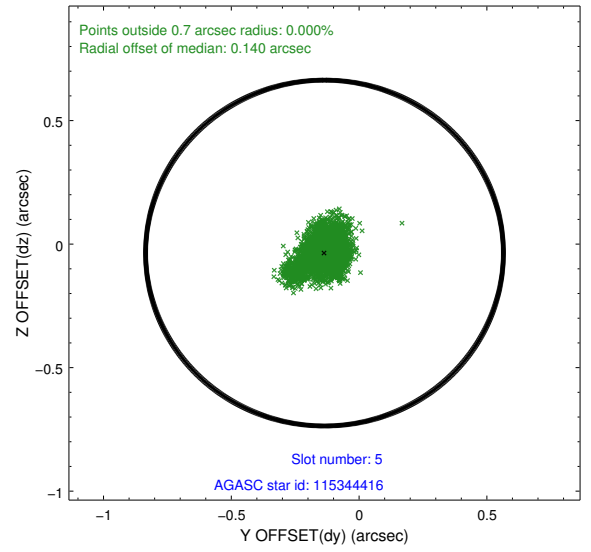
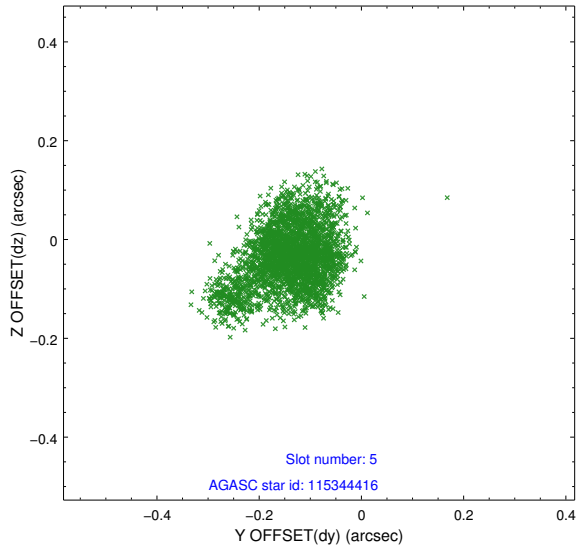
2.4.1 Slot 3



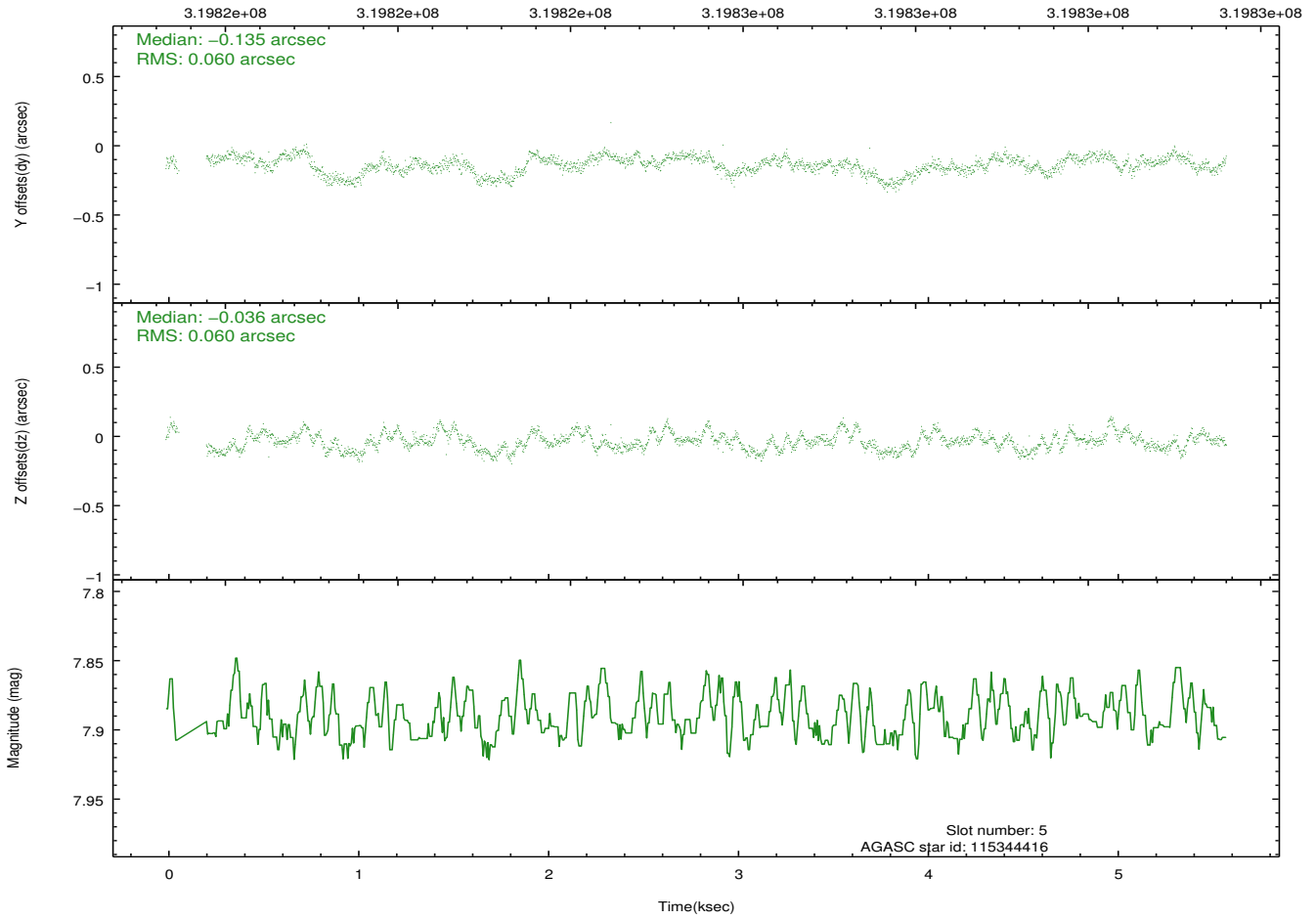
2.4.2 Slot 4



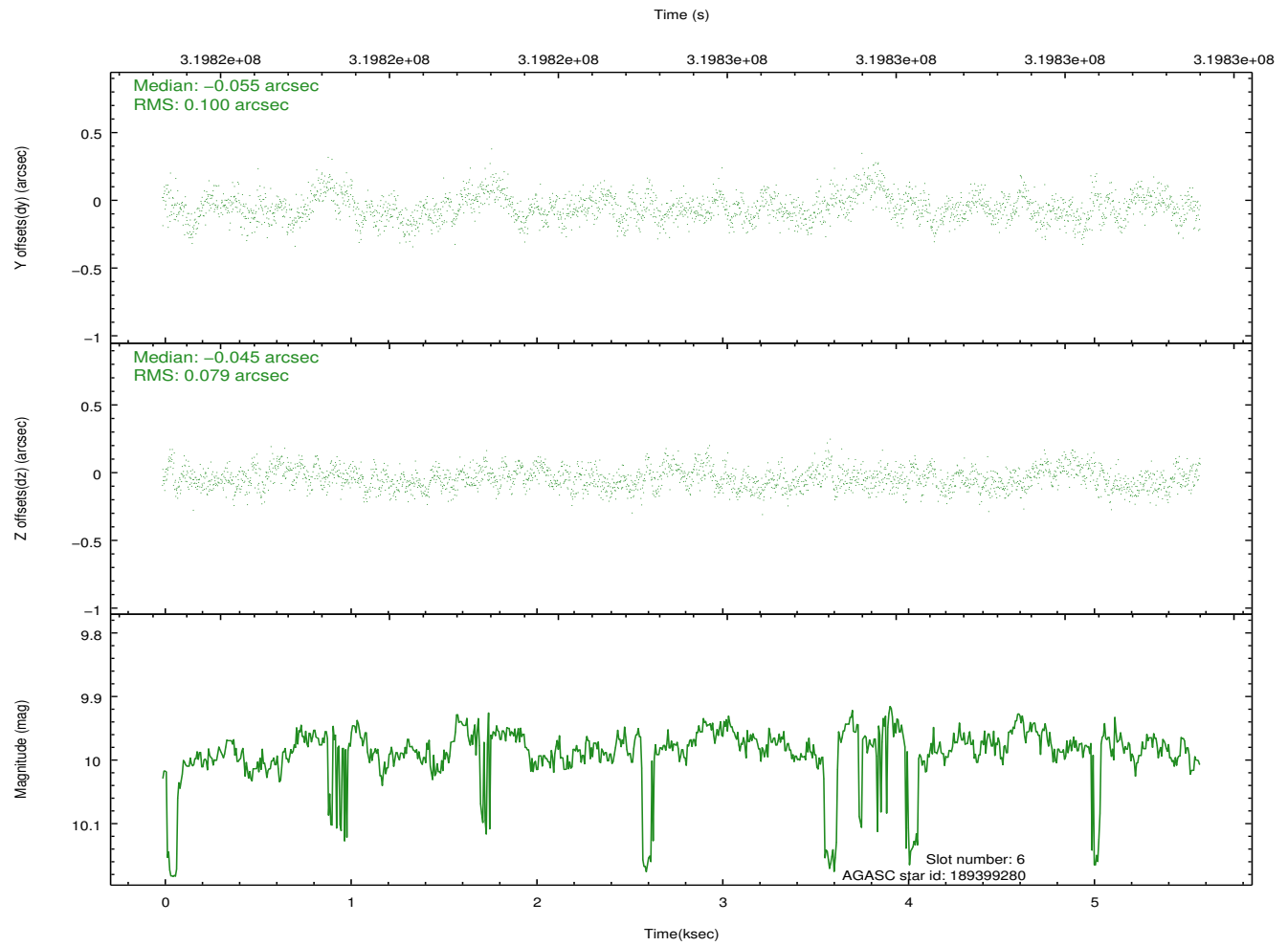
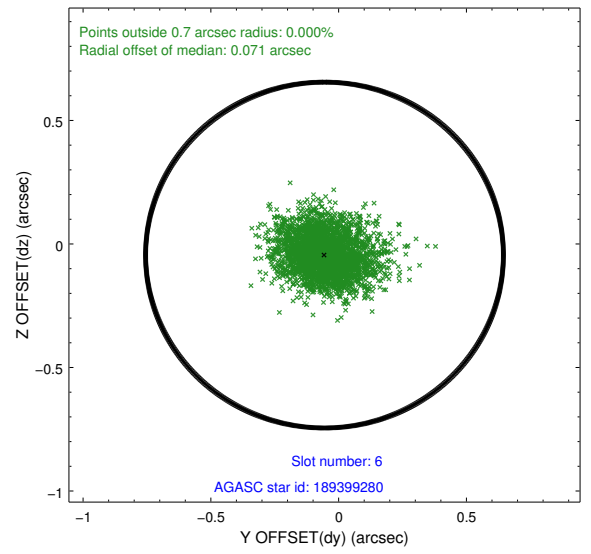
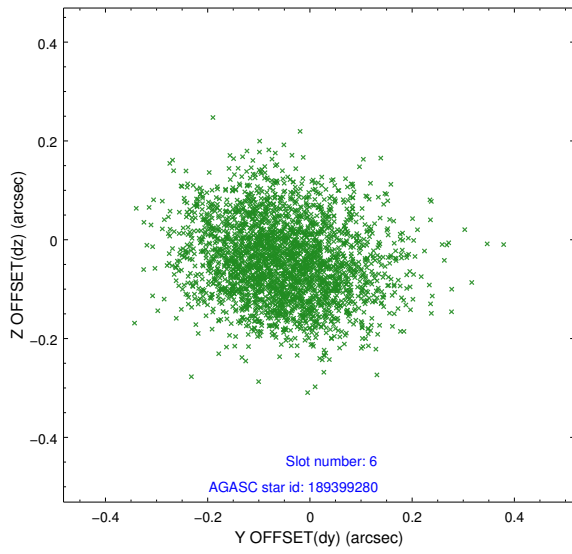
2.4.3 Slot 5



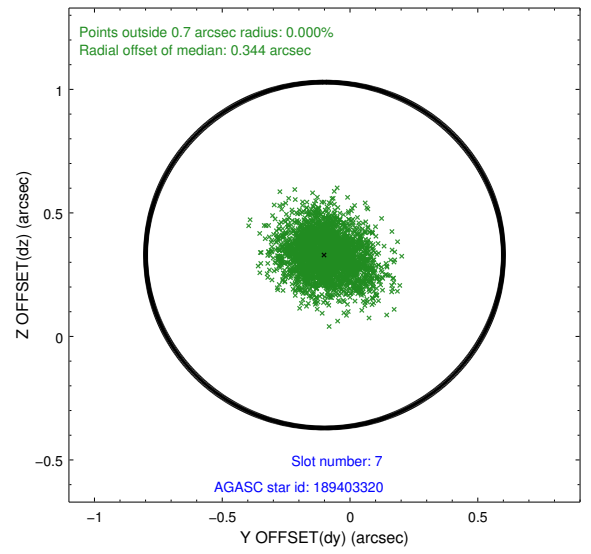
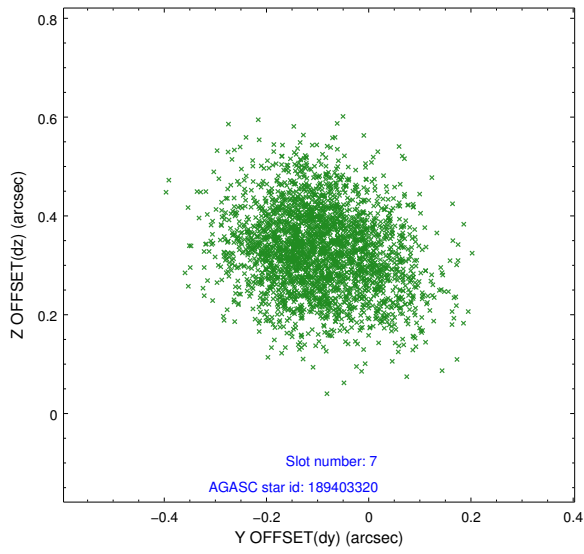
Time (s)



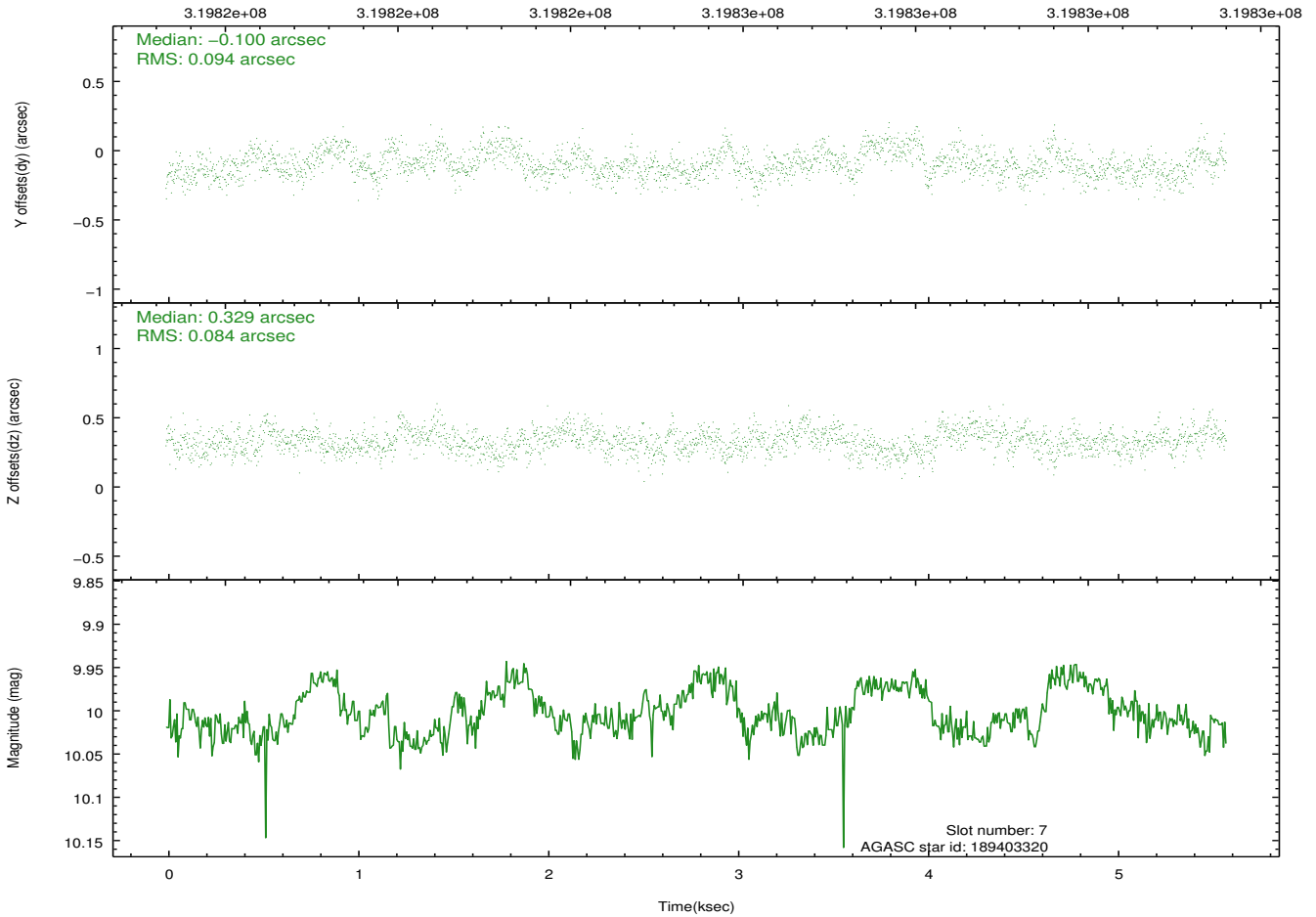
2.4.4 Slot 6



2.4.5 Slot 7

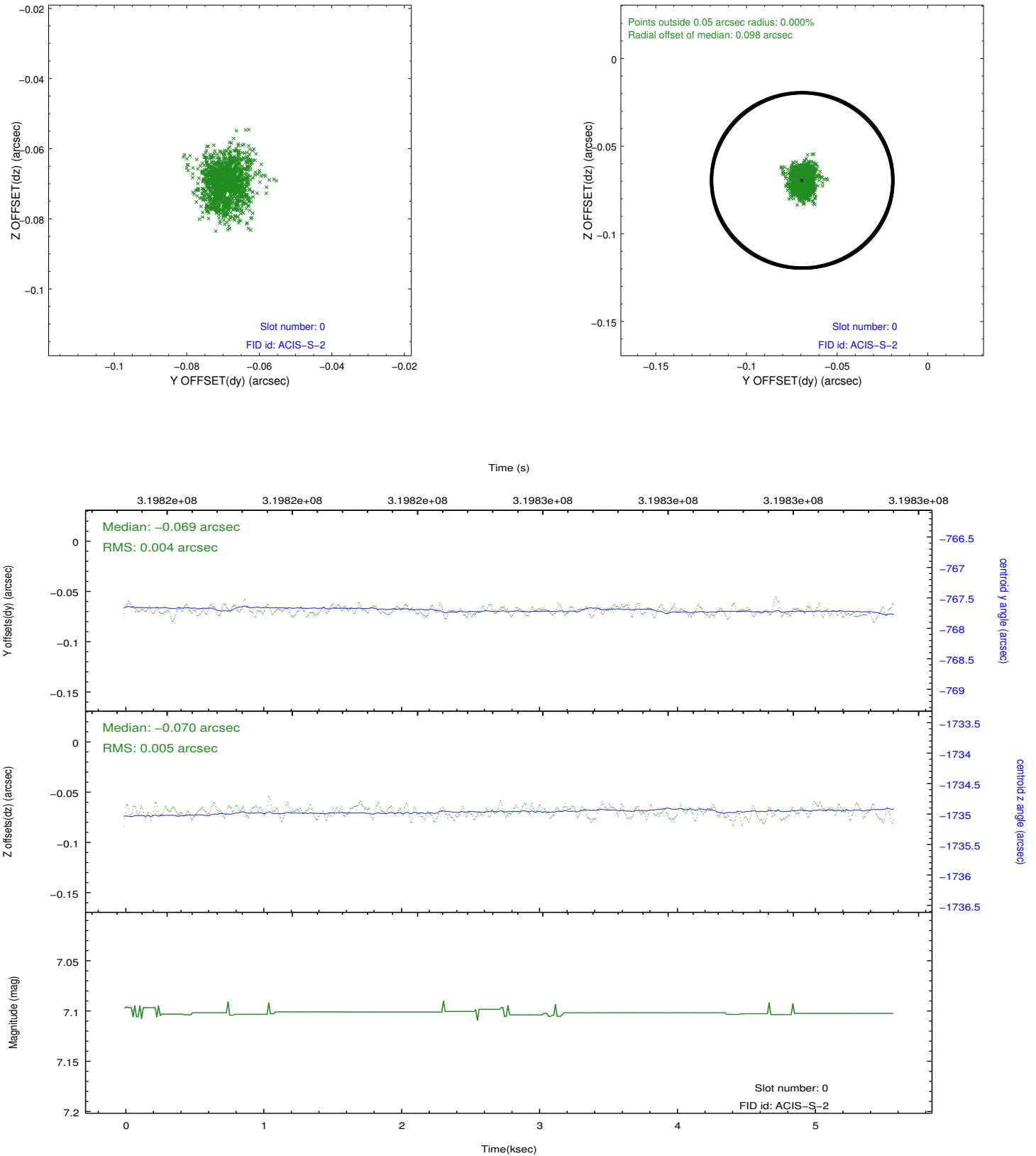


Time (s)

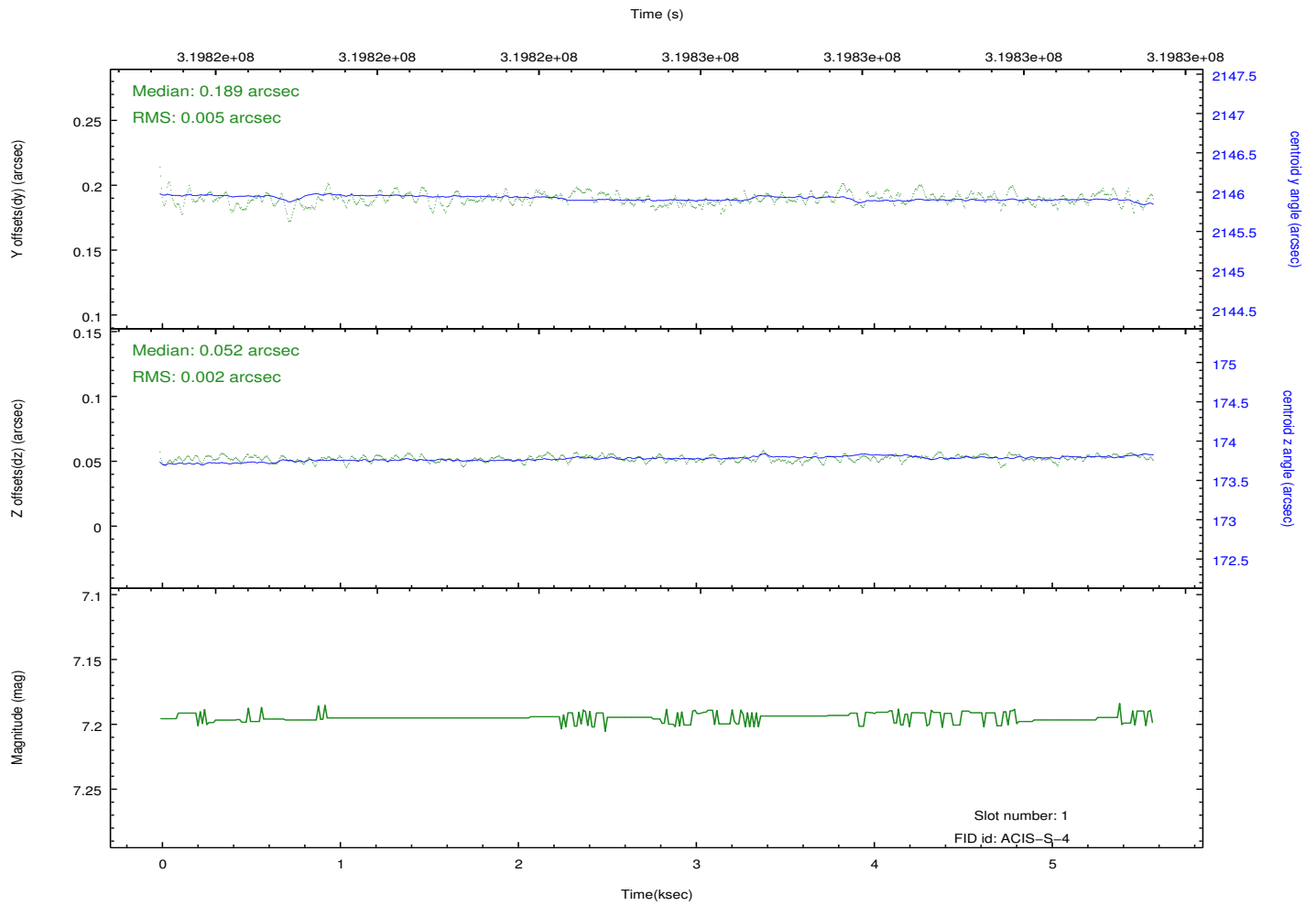
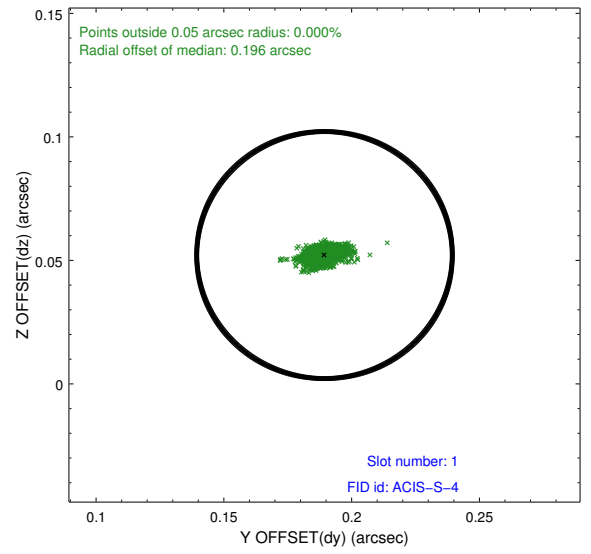
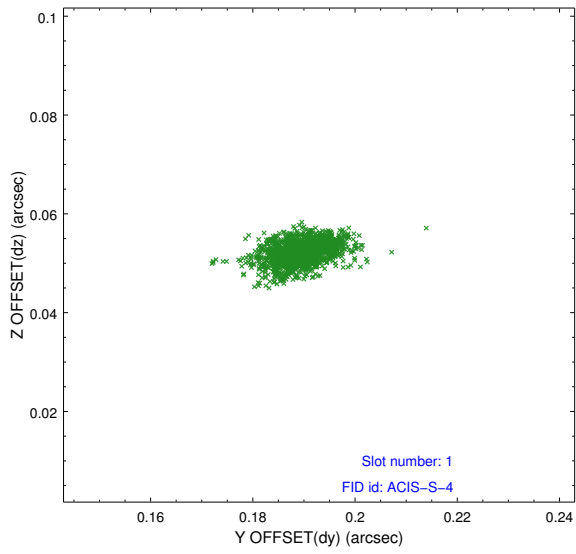


2.5 FID Slots

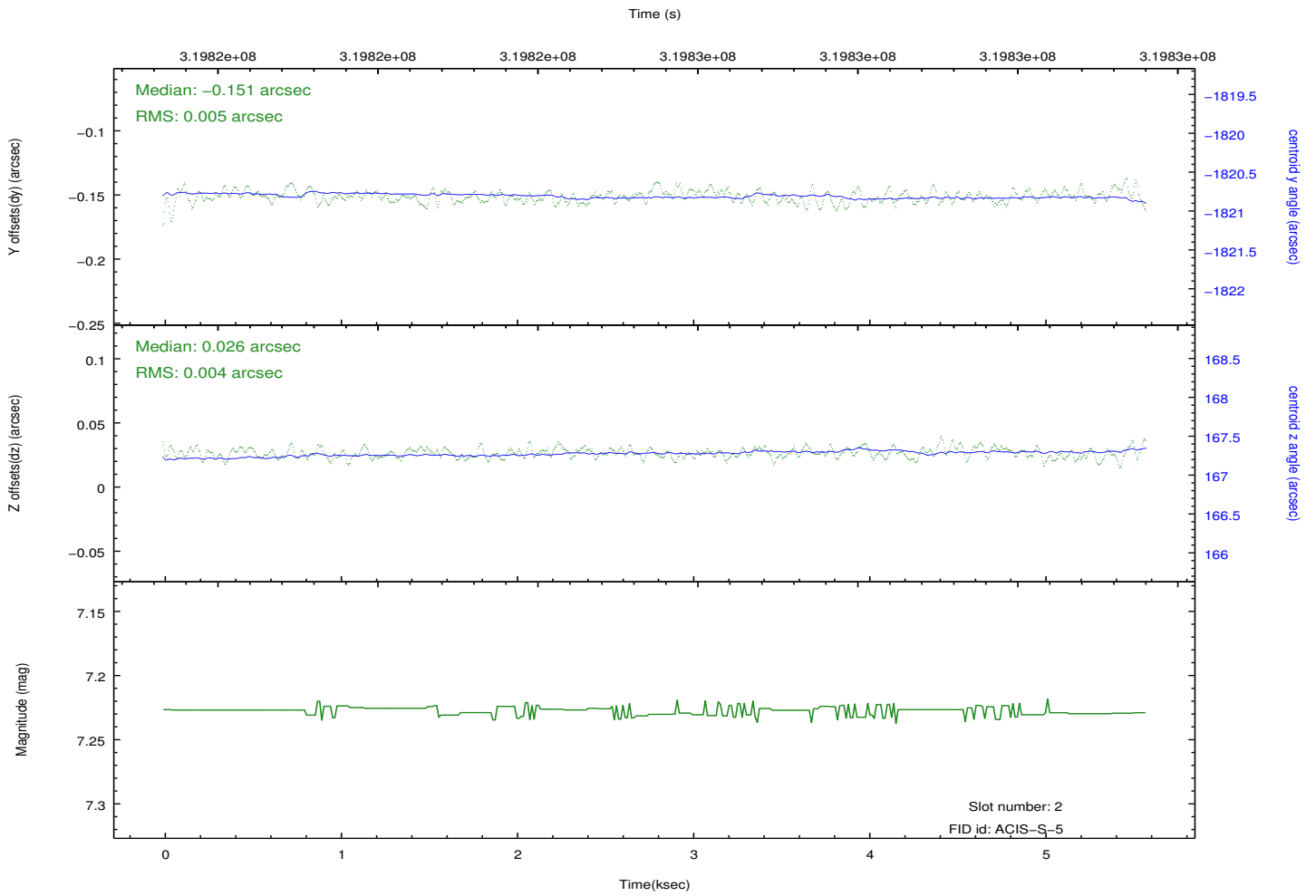
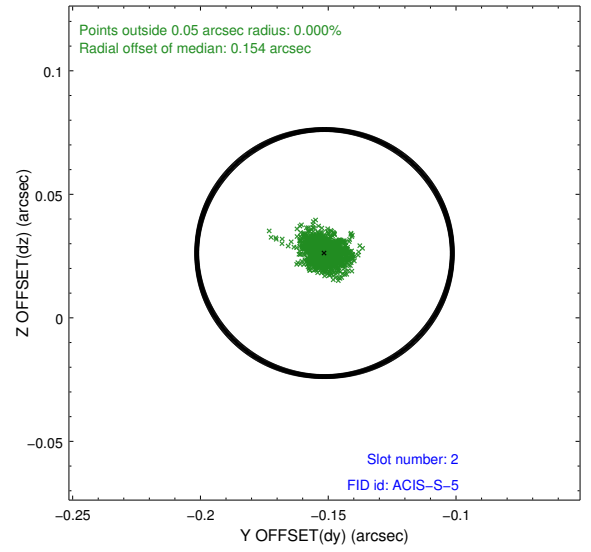
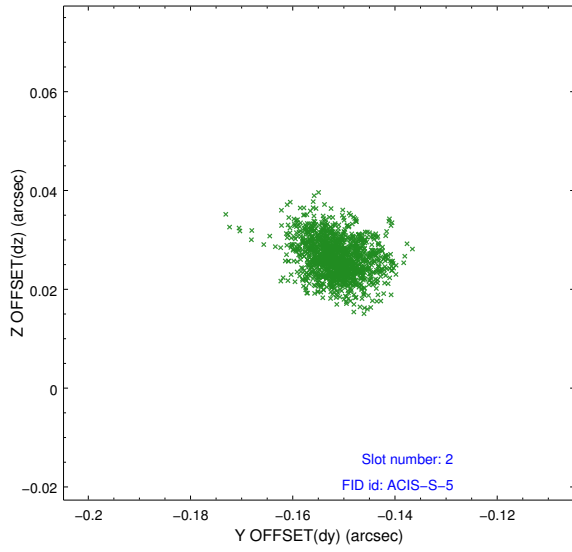
2.5.1 Slot 0



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.