

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 4440 - L2 Version 001
Chandra X-Ray Center

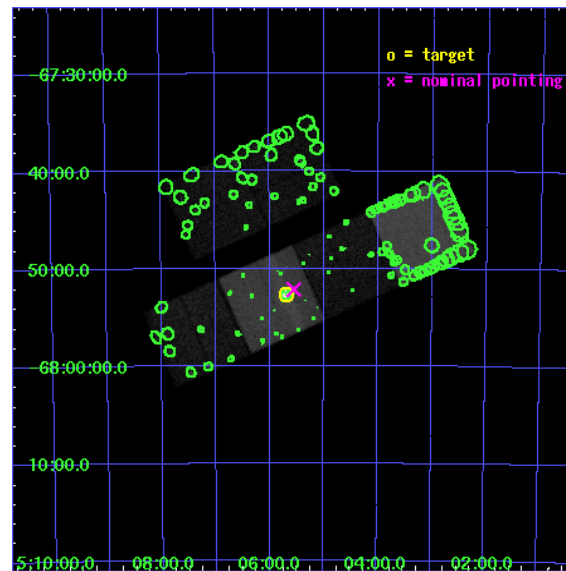
L2 Processing Date : Aug 10 2006

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1 Front

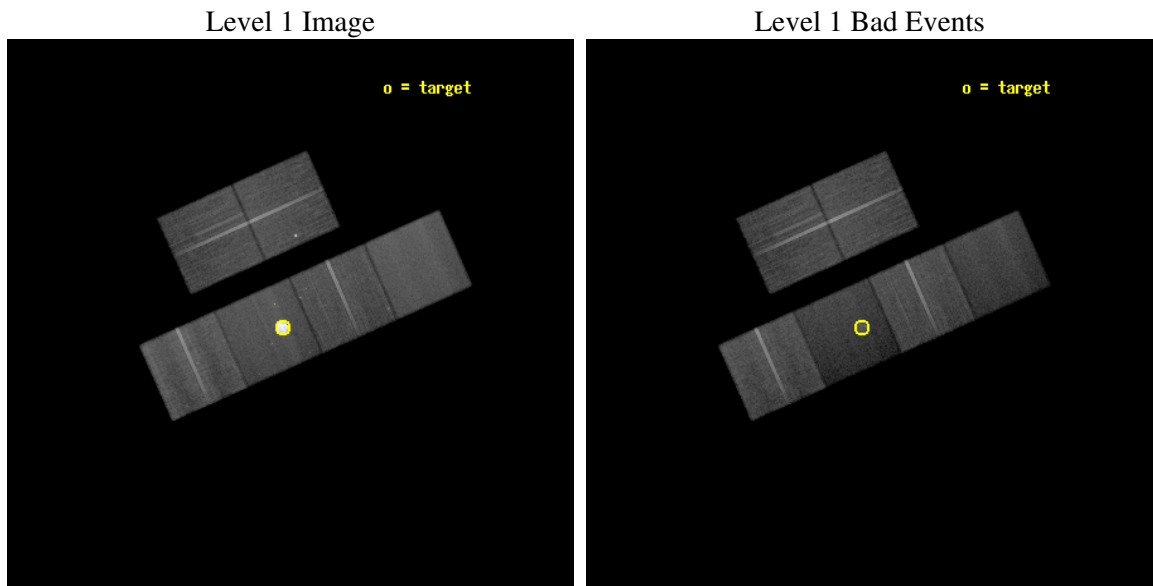
seq_num	500355
obs_id	4440
title	DEM L71: SHOCK PHYSICS AT HIGH RESOLUTION
observer	Dr. Cara Rakowski
object	DEM L71
dtcycle	0
cycle	P
ra_targ	76.42375
dec_targ	-67.877222
ra_nom	76.387625403495
dec_nom	-67.869289634023
roll_nom	155.95316102685
revision	2
ontime	54963.199795246
livetime	54267.222664573
ontime2	54946.994943976
ontime3	54943.753983706
ontime5	54963.199795246
ontime6	54940.51298359
ontime7	54963.199795246
ontime8	54953.476904452
l2events	635492



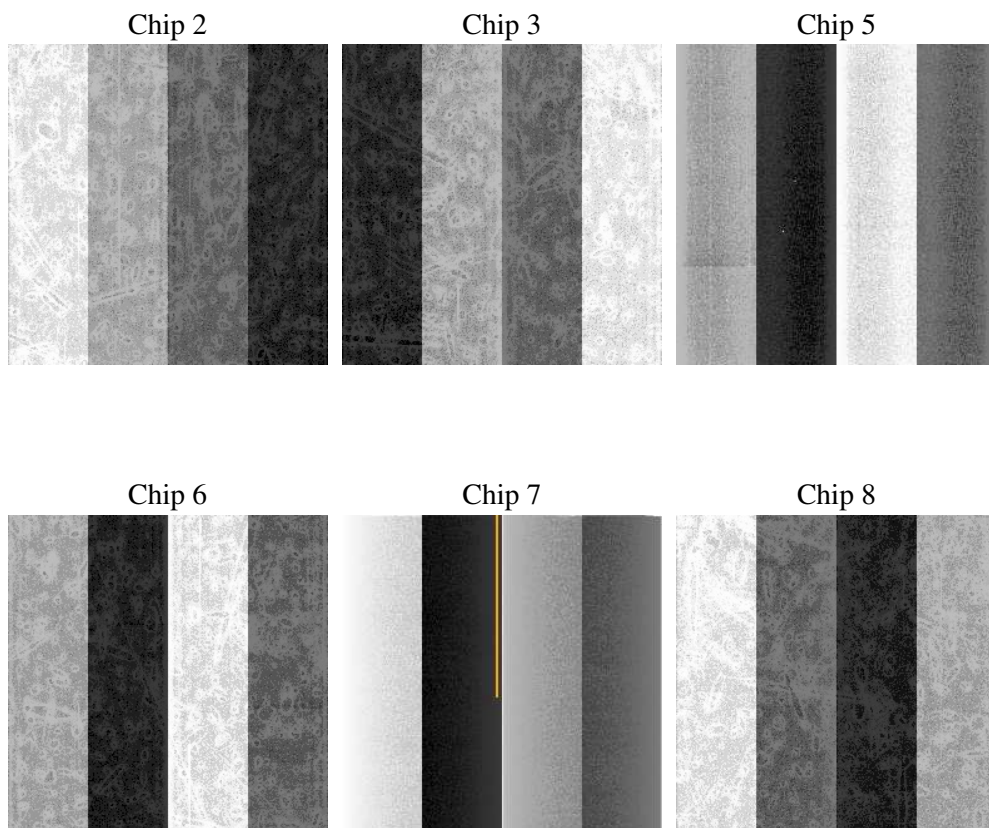
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.8.1
caldsver	3.2.2
date	2006-08-10T14:09:02
revision	2

sched_exp_time	55000.000000
ontime	54967.387510598
ontime2	54951.18263939
ontime3	54947.941699058
ontime5	54967.387510598
ontime6	54944.700679004
ontime7	54967.387510598
ontime8	54957.664619803
l1events	1947121

2.1.4 Events

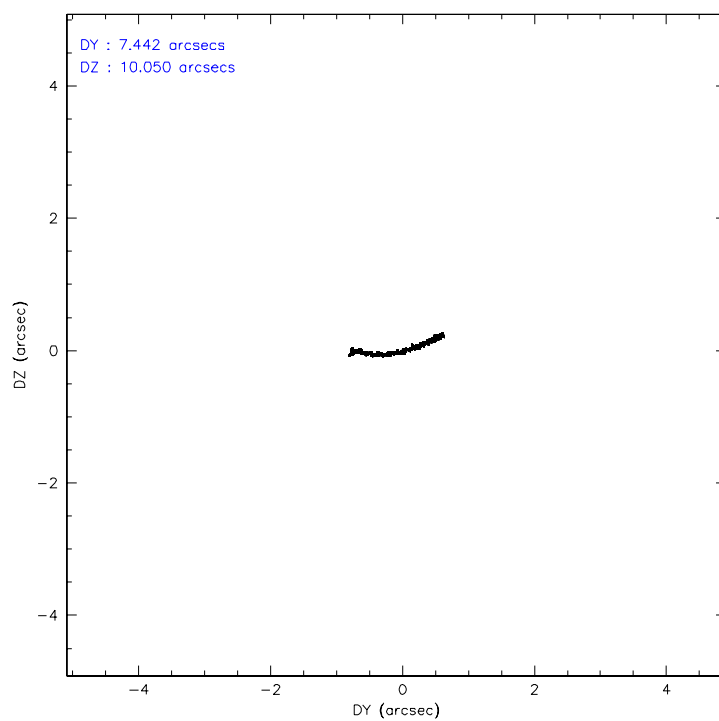
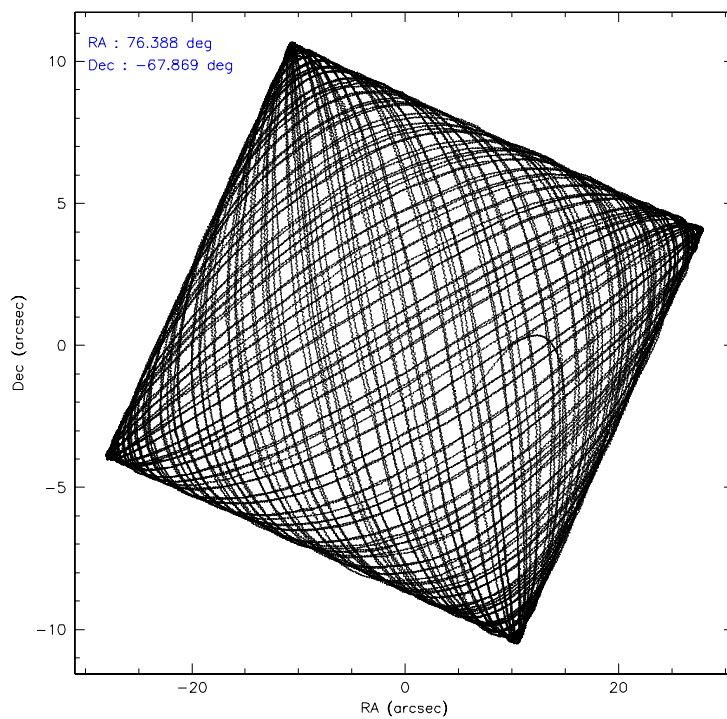
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	279094	253867	305428	266200	524113	318419
rejected events	248395	229428	152536	237351	133277	245392
rejected %	89%	90%	49%	89%	25%	77%

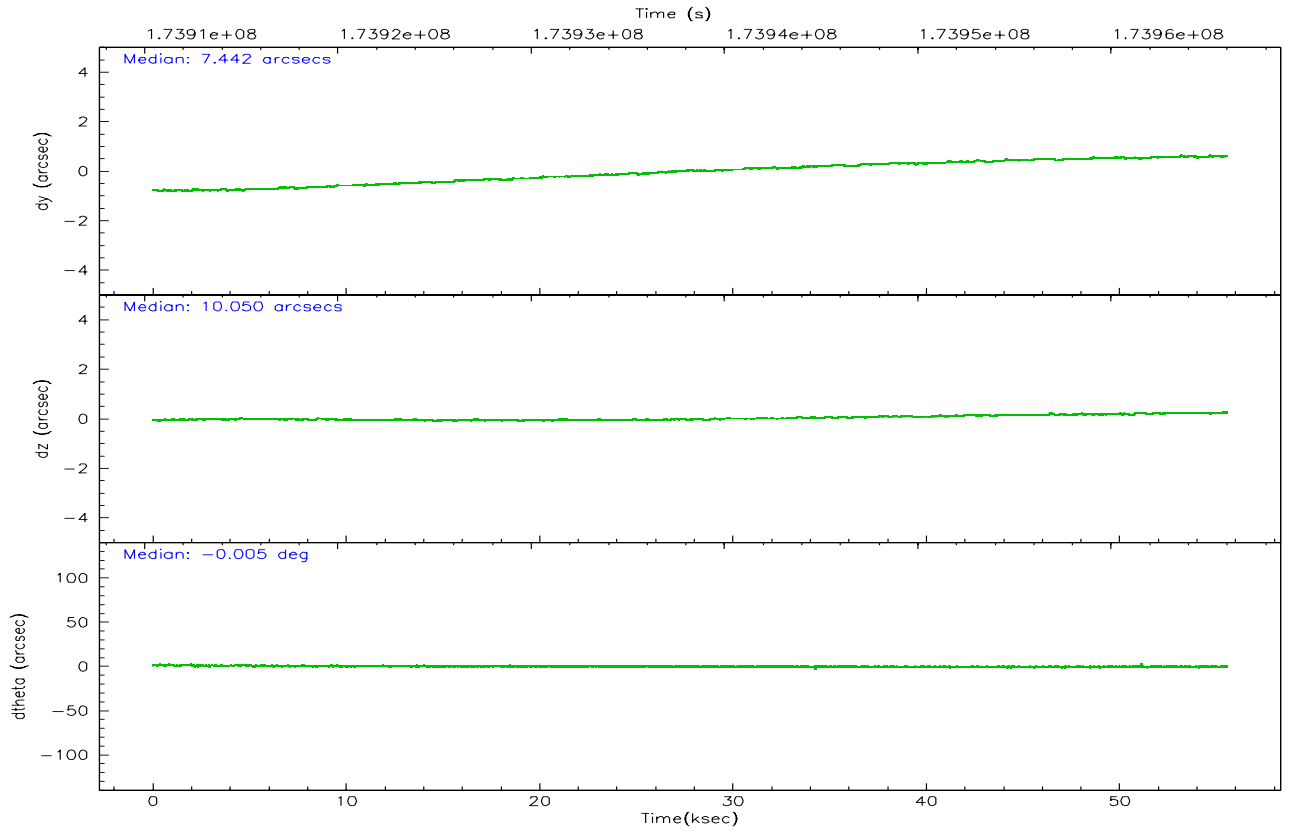
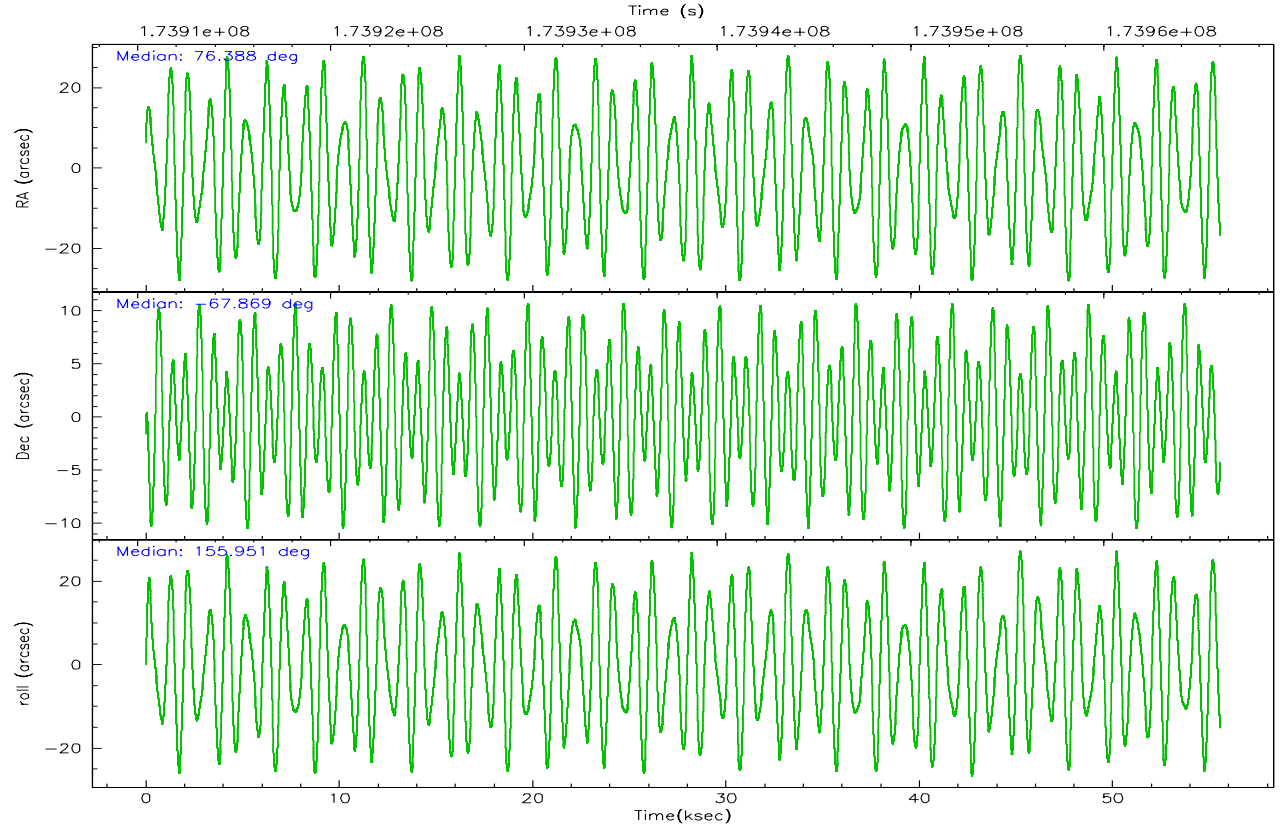
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	14217	9638	7134	11921	110158	21880
	5%	3%	2%	4%	21%	6%
grade 1 events	158	126	119	132	500	238
	0%	0%	0%	0%	0%	0%
grade 2 events	6241	4923	49635	5784	103680	16082
	2%	1%	16%	2%	19%	5%
grade 3 events	2790	2791	4686	2985	40610	8273
	0%	1%	1%	1%	7%	2%
grade 4 events	3008	2708	4506	2935	38770	7691
	1%	1%	1%	1%	7%	2%
grade 5 events	7429	8263	17363	8836	21874	12816
	2%	3%	5%	3%	4%	4%
grade 6 events	4457	4384	86943	5233	97660	19107
	1%	1%	28%	1%	18%	6%
grade 7 events	240794	221034	135042	228374	110861	232332
	86%	87%	44%	85%	21%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	76.459336	76.38762540349549	Alternating exposures requested	N	N
Pointing Dec	-67.866075	-67.86928963402254	Primary exposure time	0.000000	3.2
Pointing Roll	155.862962	155.9531610268512			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	173910994.184000	173909843.83588			
Observation start date	2003-07-06T20:35:30	2003-07-06T20:17:23			
Observation end time	173965994.184000	173967002.45081			
Observation end date	2003-07-07T11:52:10	2003-07-07T12:10:02			
Read mode	TIMED	TIMED			

2.3 Aspect



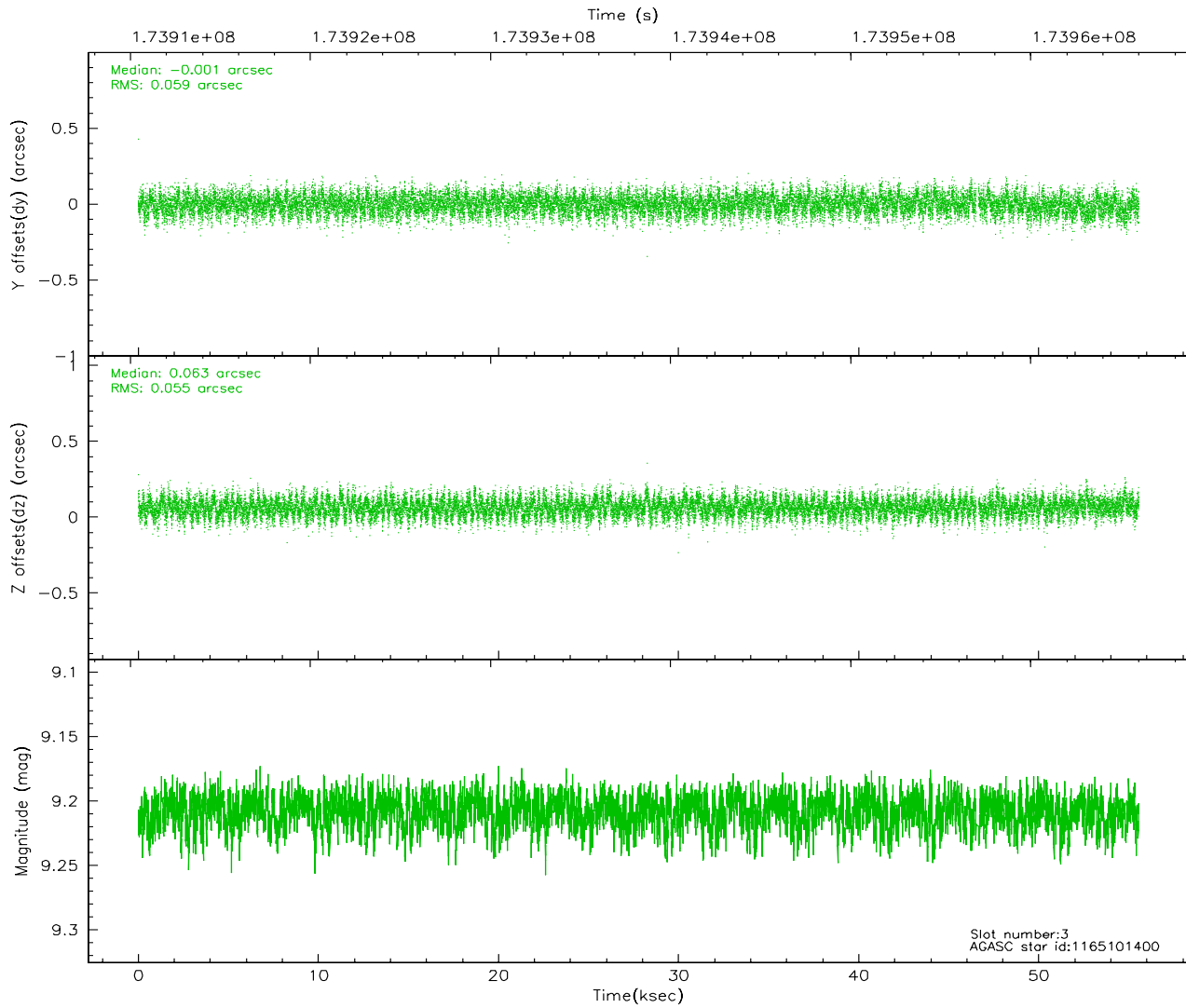
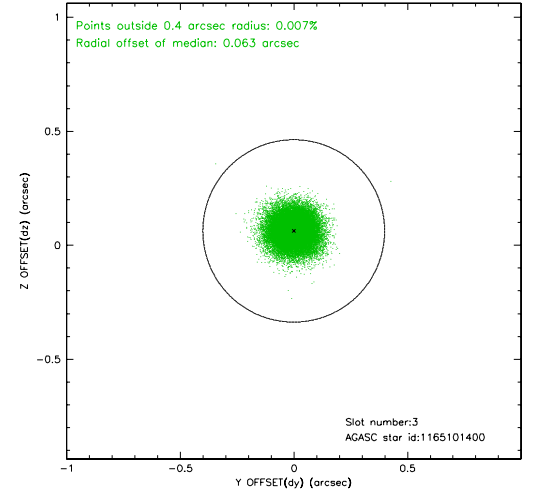
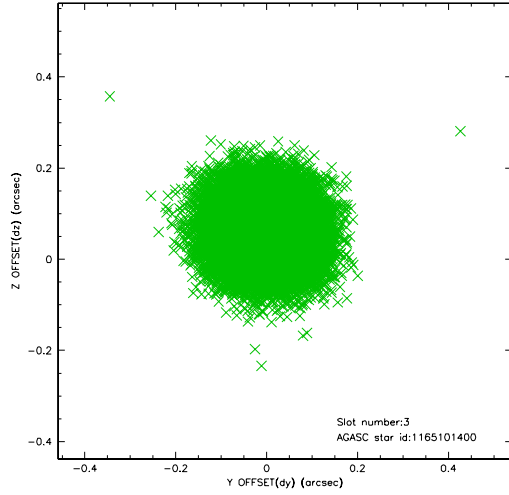


Slot Statistics

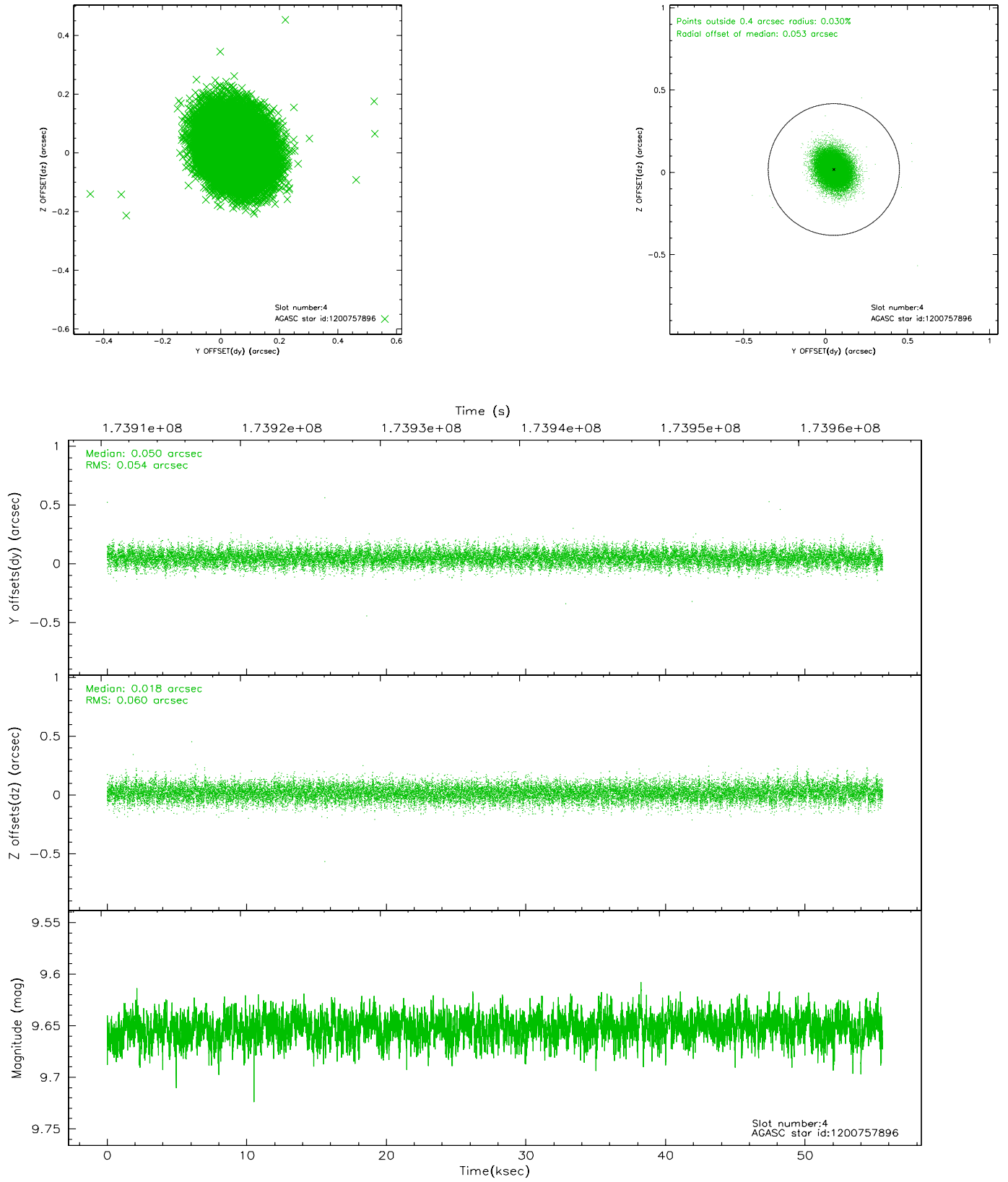
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	13550	-0.032	0.013	0.009	0.018	0.000000	0.000000	-760.15	-1731.34
1	FID	ACIS-S-4	7.20	13547	0.019	0.012	0.016	0.026	0.000000	0.000000	2153.15	177.23
2	FID	ACIS-S-5	7.23	13549	-0.021	-0.016	0.021	0.030	0.000000	0.000000	-1813.06	170.75
3	GUIDE	1165101400	9.21	27015	-0.001	0.063	0.086	0.137	75.332859	-67.447345	2030.42	-726.56
4	GUIDE	1200757896	9.65	27065	0.050	0.018	0.085	0.140	76.533946	-67.526650	406.39	-1156.95
5	GUIDE	1200758584	8.18	27088	-0.035	-0.103	0.052	0.084	75.674293	-67.843121	1003.98	366.66
6	GUIDE	1200758760	8.31	27081	-0.019	-0.033	0.060	0.097	76.277764	-68.086435	-101.64	824.18
7	GUIDE	1200882544	8.92	27092	0.006	0.054	0.079	0.125	78.099449	-67.947843	-2154.84	-610.77

2.4 Star Slots

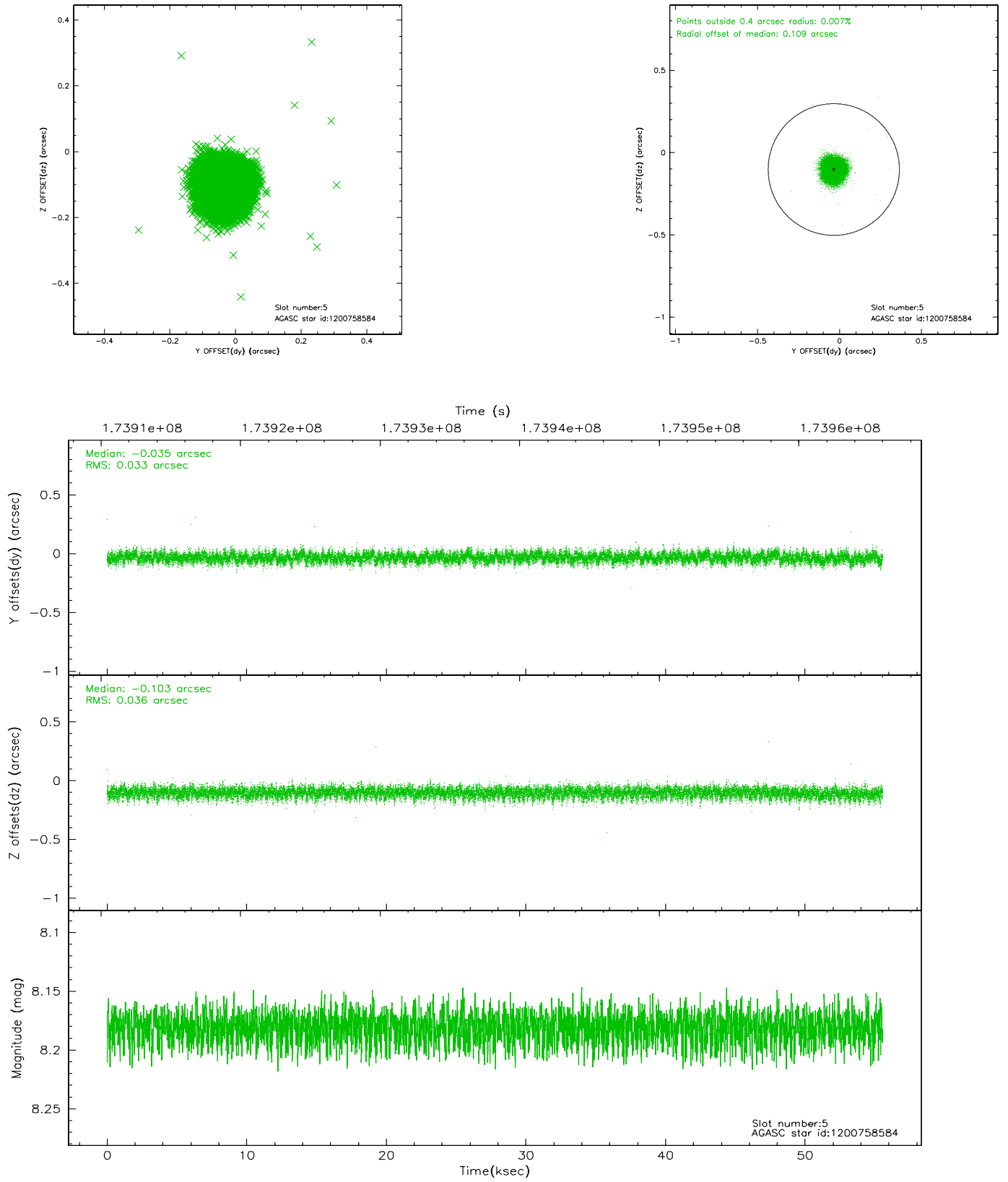
2.4.1 Slot 3



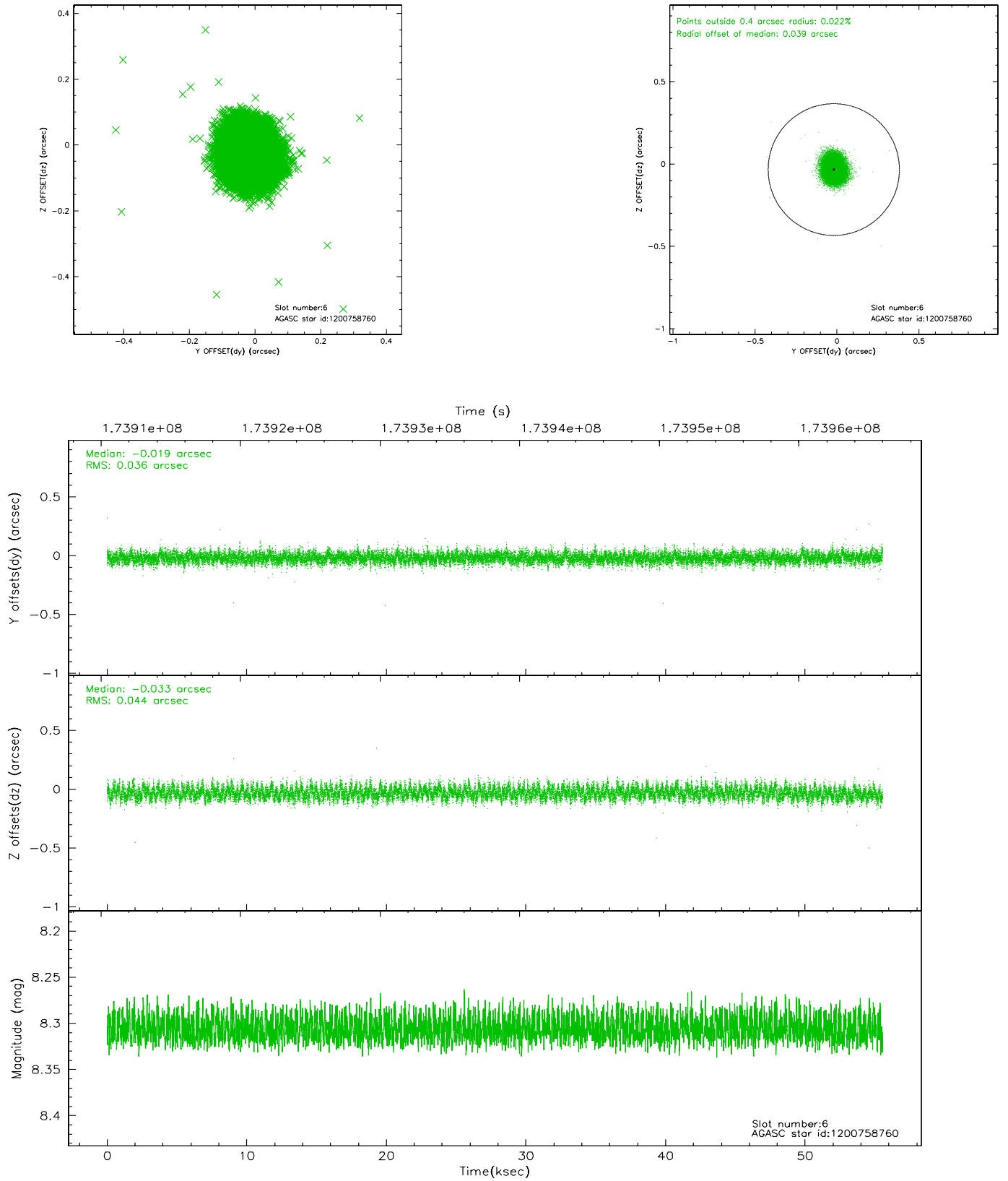
2.4.2 Slot 4



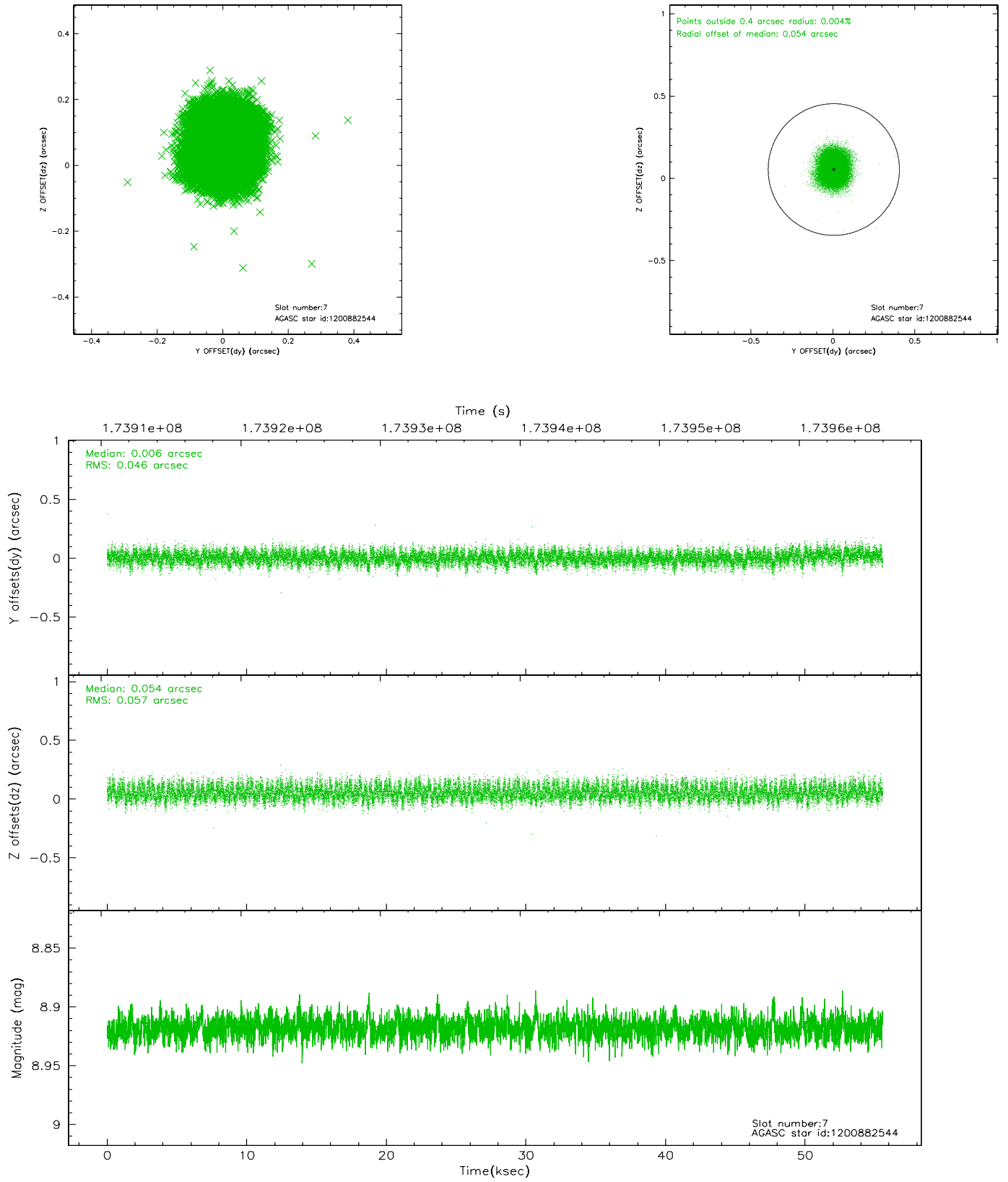
2.4.3 Slot 5



2.4.4 Slot 6

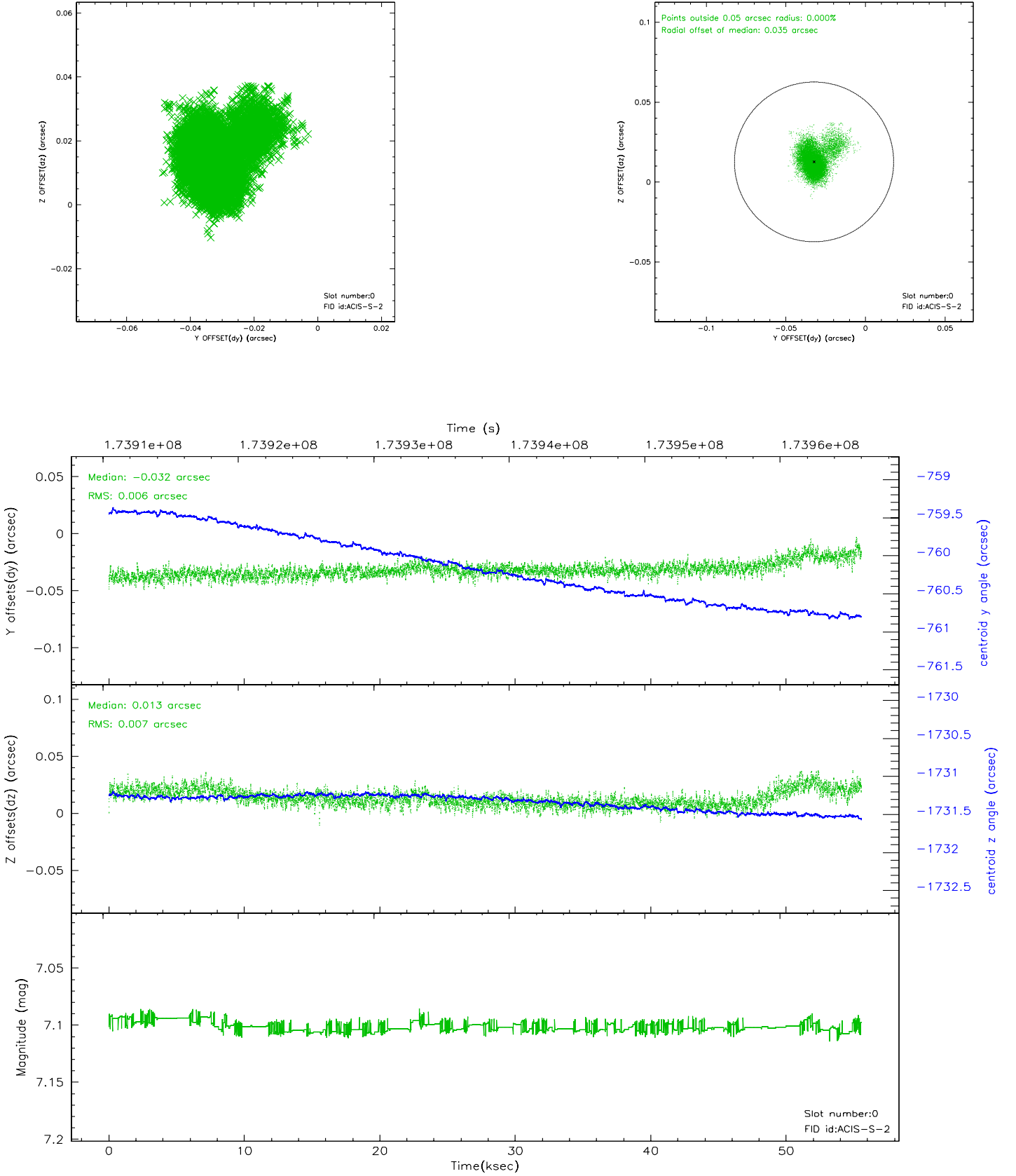


2.4.5 Slot 7

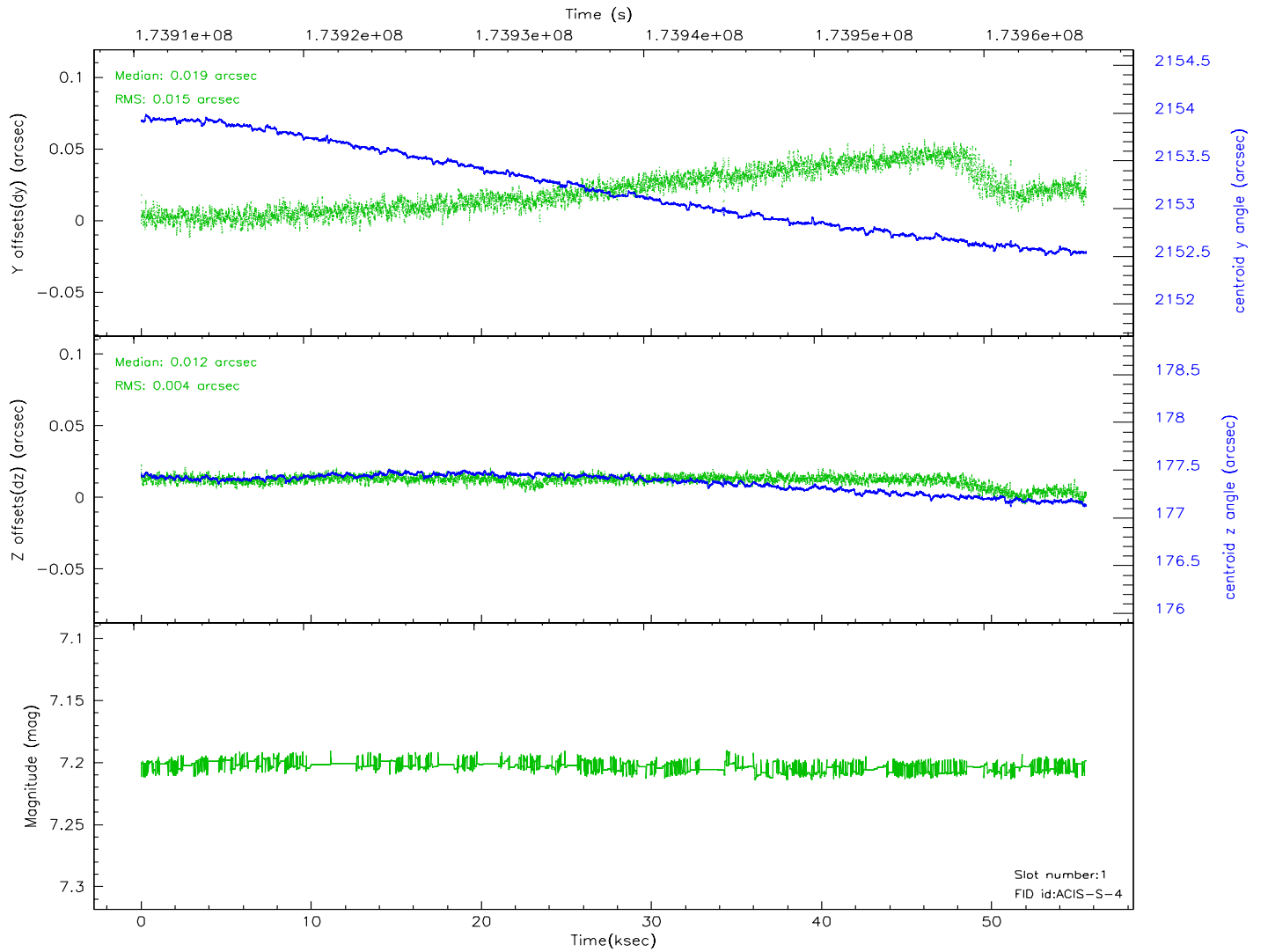
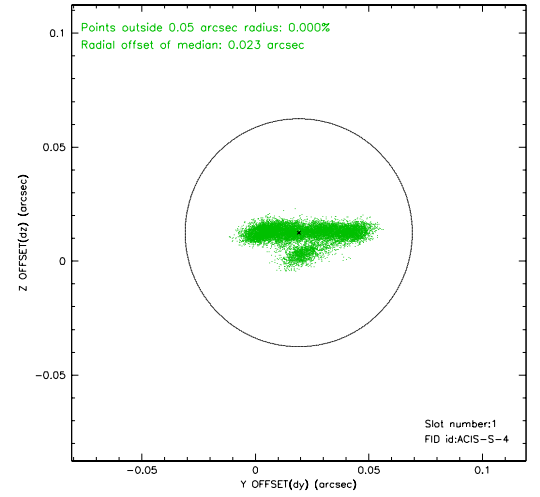
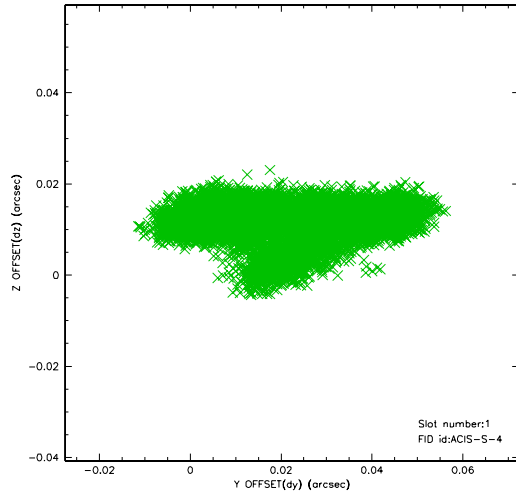


2.5 FID Slots

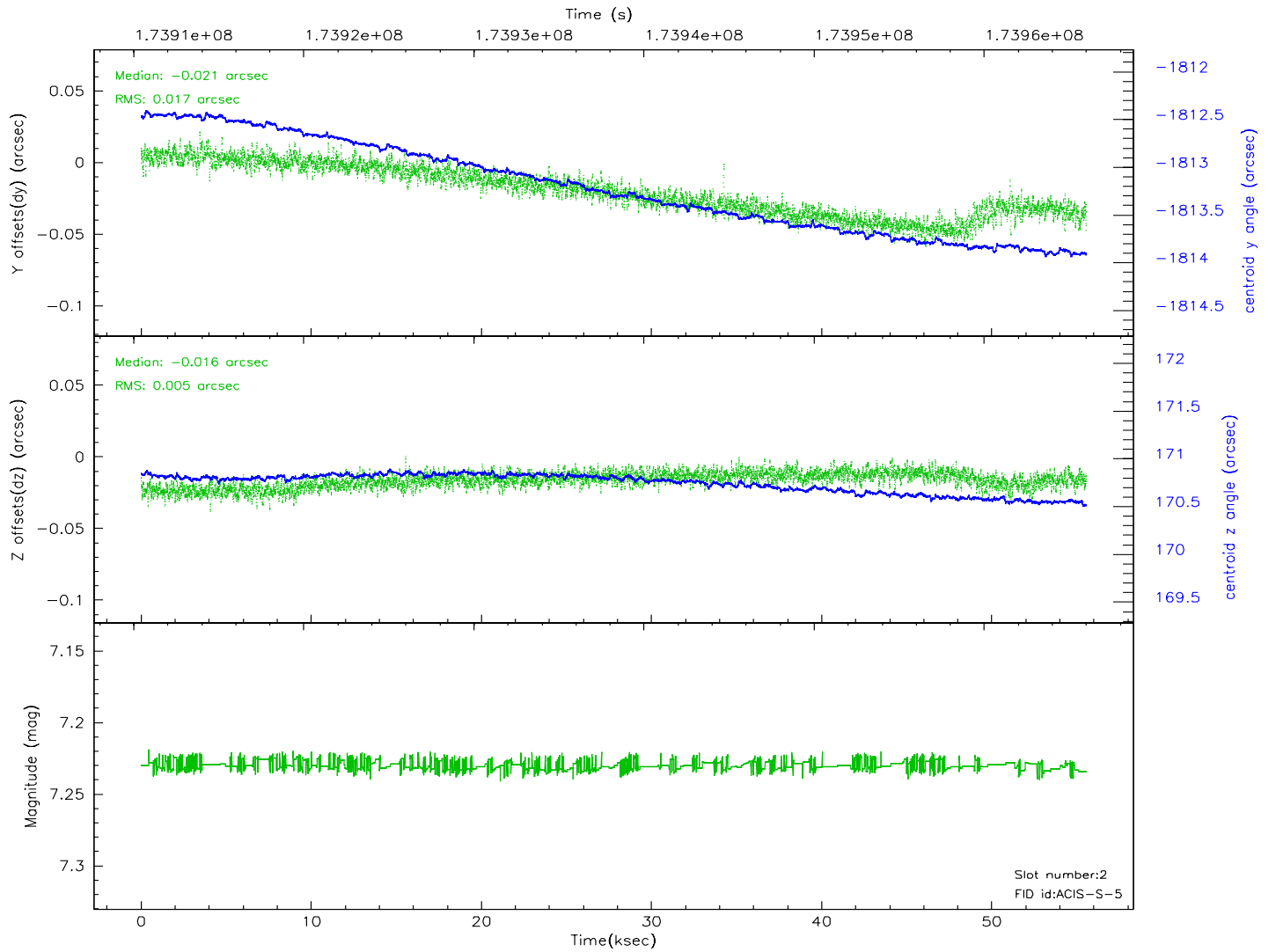
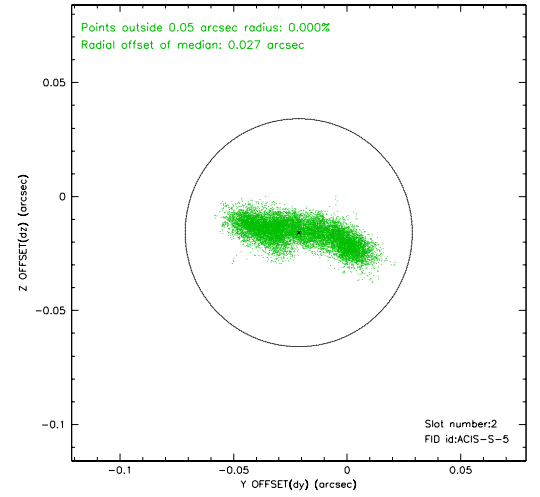
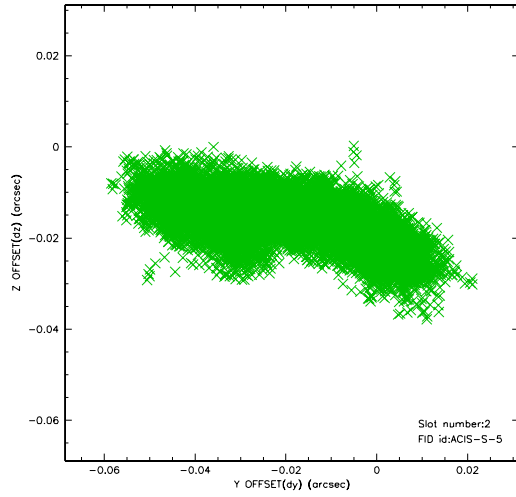
2.5.1 Slot 0



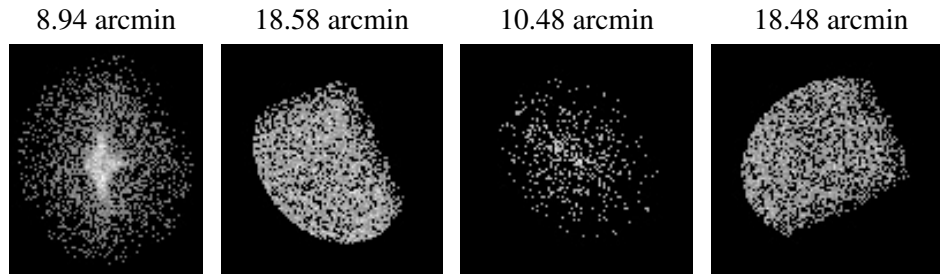
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.08.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	54.966

A.2 Comments

Focal plane temperature is warmer than -118 degrees during initial ~4 ksec of observation. The ACIS calibrations are not verified or necessarily applicable for focal plane temperatures warmer than -118 degrees.