

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 3754 - L2 Version 001
Chandra X-Ray Center

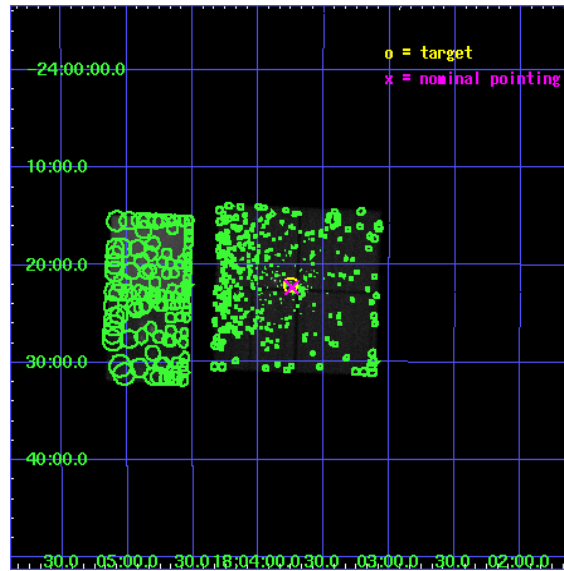
L2 Processing Date : Jul 12 2006

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1 Front

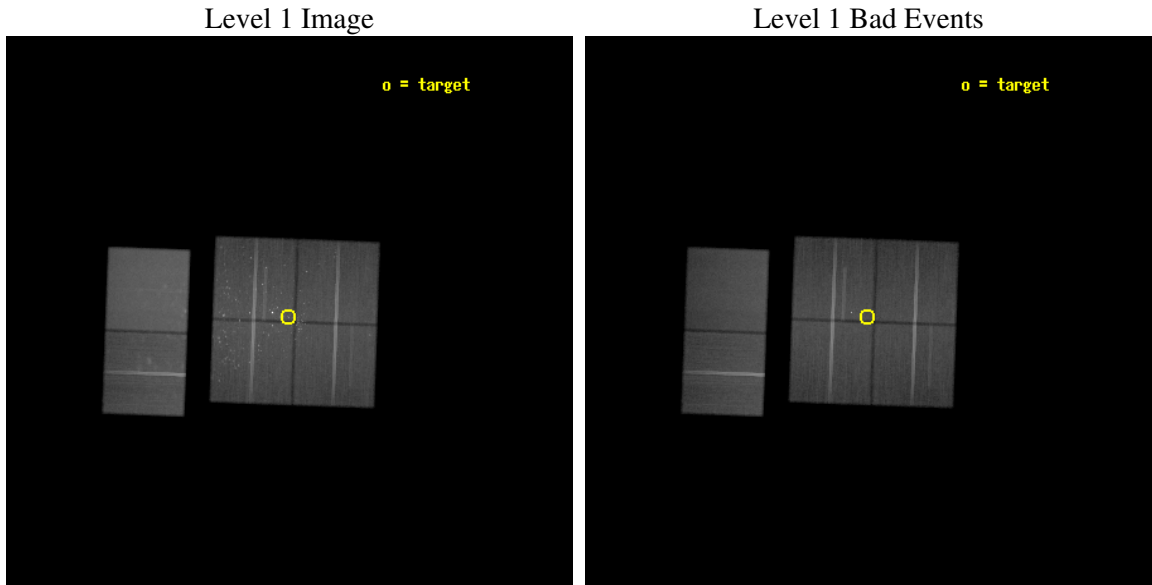
seq_num	200224
obs_id	3754
title	DEEP INSIDE THE LAGOON NEBULA
observer	Marc Gagne
object	M8
dtcycle	0
cycle	P
ra_targ	270.937917
dec_targ	-24.368056
ra_nom	270.93610395598
dec_nom	-24.372377033016
roll_nom	272.10794115623
revision	2
ontime	129601.72921085
livetime	127960.63407879
ontime0	129617.93402228
ontime1	129666.5490849
ontime2	129546.63230681
ontime3	129601.72921085
ontime6	129595.24714056
ontime7	129993.88944724
l2events	1270769



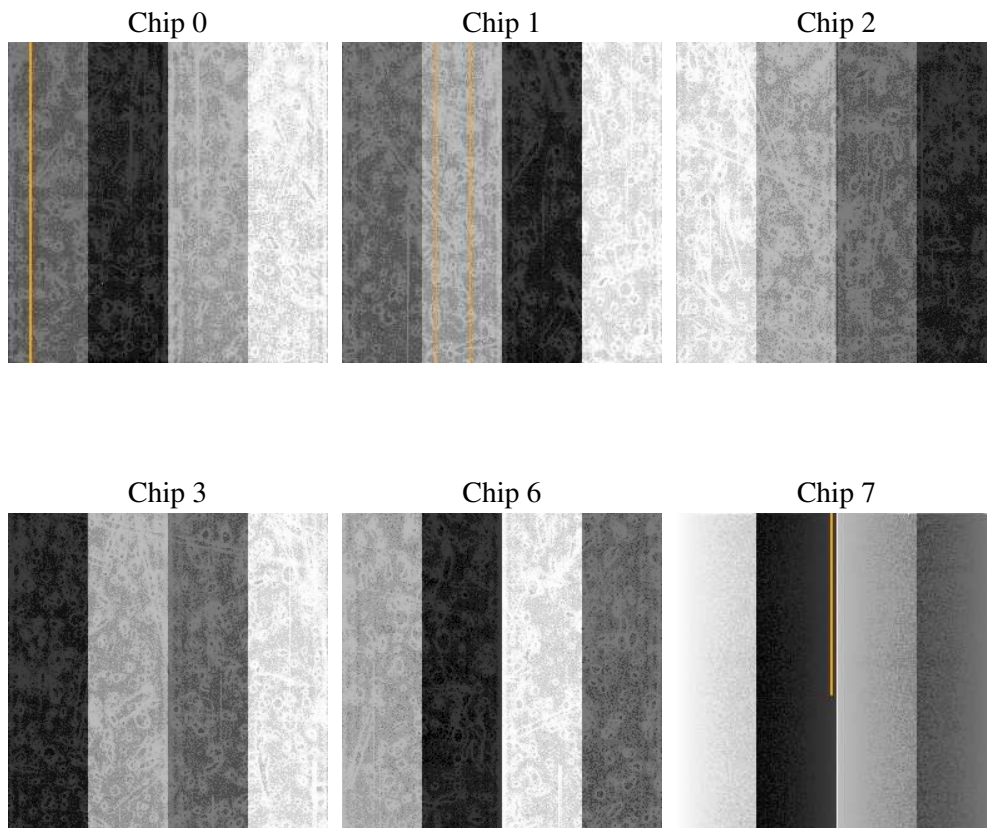
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.8
caldsver	3.2.2
date	2006-07-12T20:37:01
revision	2

sched_exp_time	130094.079000
ontime	130560.84385994
ontime0	130577.04865146
ontime1	130625.66373399
ontime2	130505.74693599
ontime3	130560.84385994
ontime6	130554.36176974
ontime7	130953.00409633
l1events	5512268

2.1.4 Events

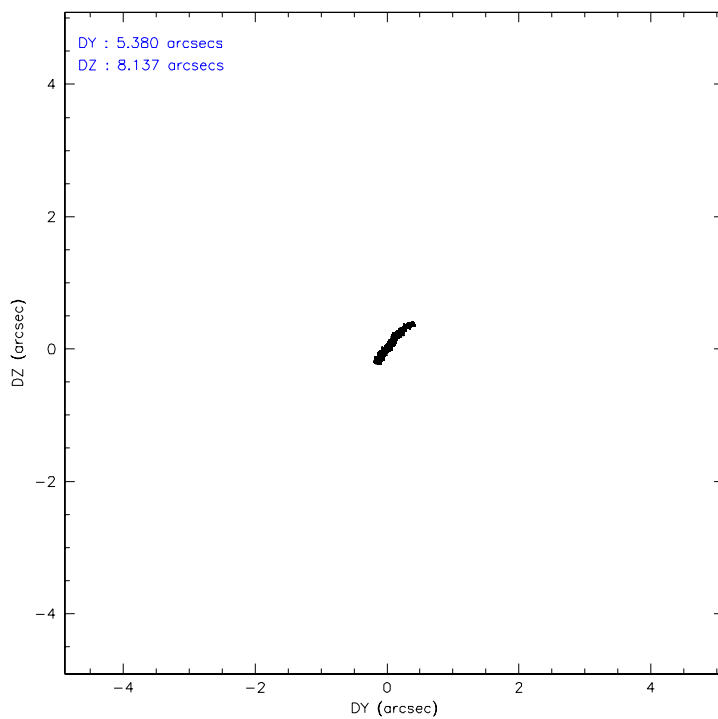
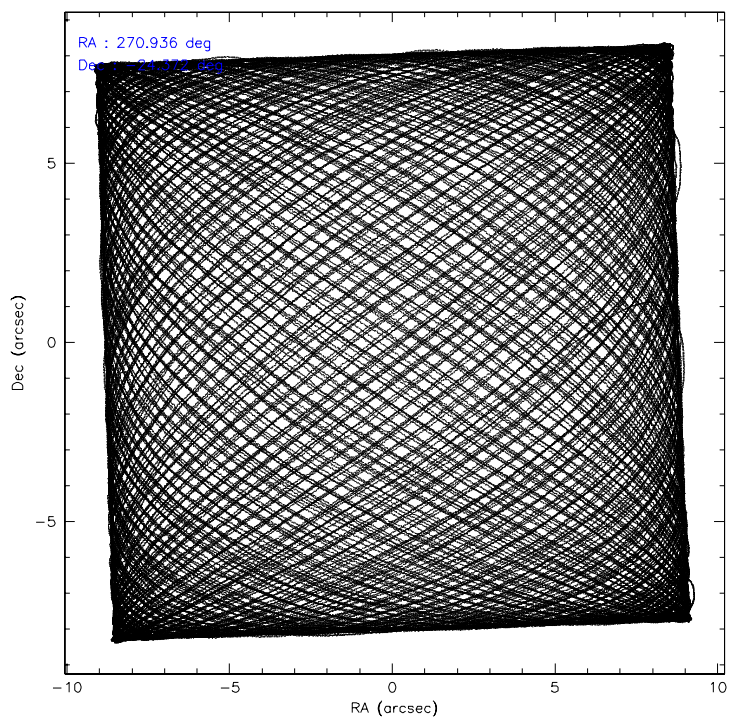
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	789986	803769	870548	901872	908603	1237490
rejected events	646158	650906	711271	703397	738008	696689
rejected %	81%	80%	81%	77%	81%	56%

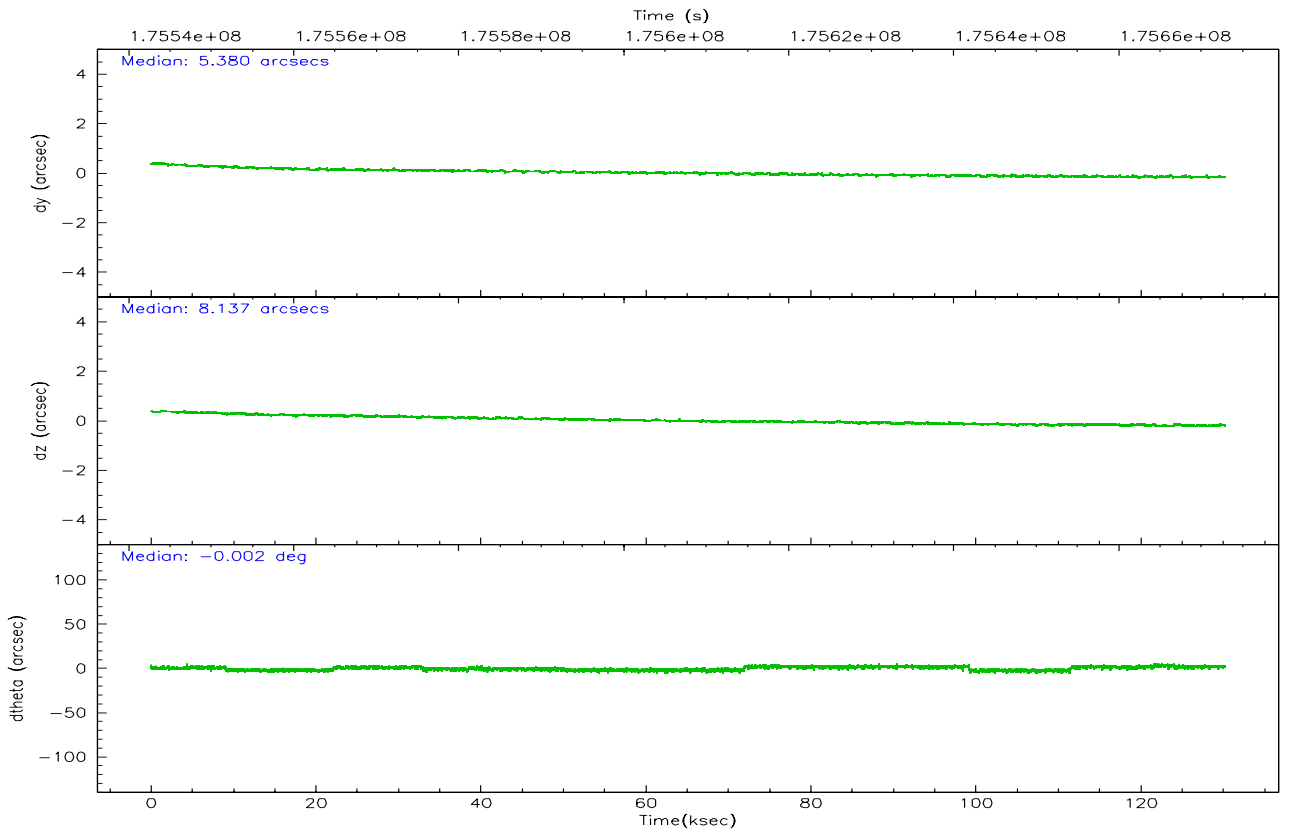
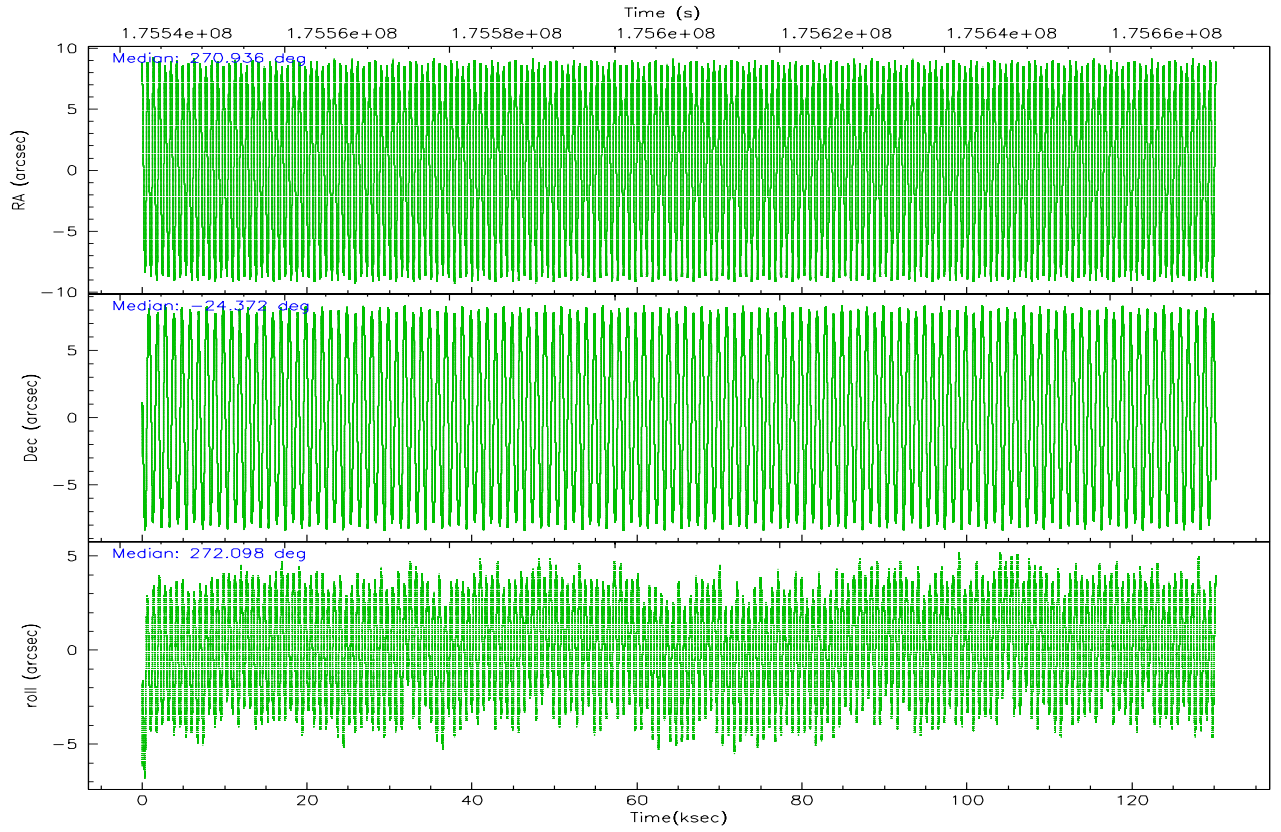
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	72104	72544	89943	119652	90405	40743
	9%	9%	10%	13%	9%	3%
grade 1 events	513	502	702	2353	547	680
	0%	0%	0%	0%	0%	0%
grade 2 events	30982	35400	29186	34838	36201	130367
	3%	4%	3%	3%	3%	10%
grade 3 events	10574	11186	10329	12032	10795	29248
	1%	1%	1%	1%	1%	2%
grade 4 events	9961	11136	10691	12106	10752	28639
	1%	1%	1%	1%	1%	2%
grade 5 events	32473	34055	31713	36485	36942	71043
	4%	4%	3%	4%	4%	5%
grade 6 events	21078	23456	20016	20835	23285	314927
	2%	2%	2%	2%	2%	25%
grade 7 events	612301	615490	677968	663571	699676	621843
	77%	76%	77%	73%	77%	50%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	270.920021	270.9361039559782	Alternating exposures requested	N	N
Pointing Dec	-24.349255	-24.37237703301606	Primary exposure time	0.000000	3.2
Pointing Roll	271.892623	272.1079411562303			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	175542816.184000	175541295.91788			
Observation start date	2003-07-25T17:52:32	2003-07-25T17:28:15			
Observation end time	175672910.184000	175673224.69851			
Observation end date	2003-07-27T06:00:46	2003-07-27T06:07:04			
Read mode	TIMED	TIMED			

2.3 Aspect



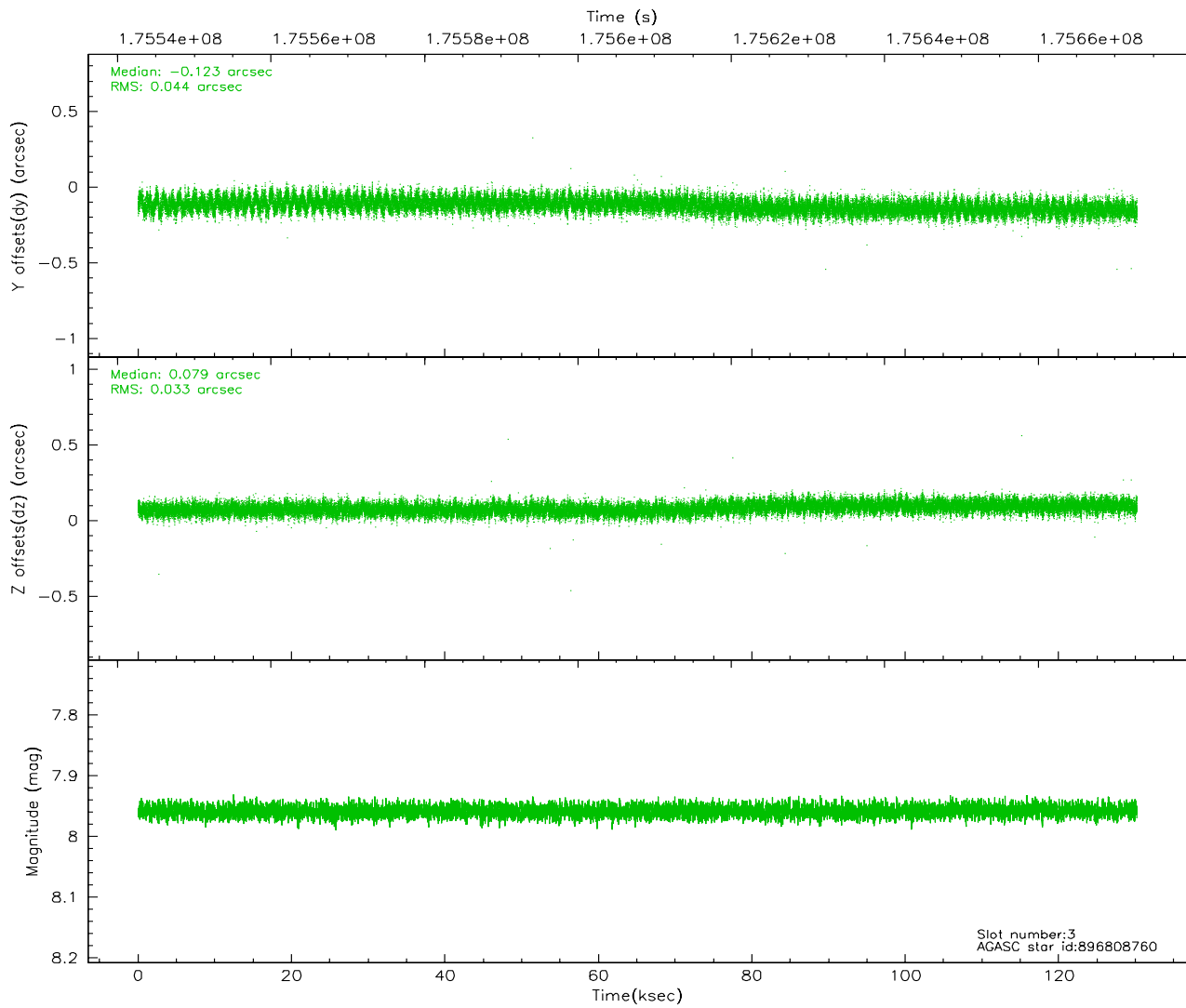
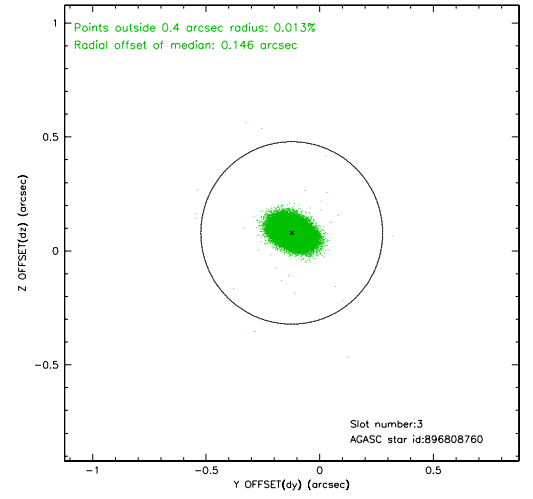
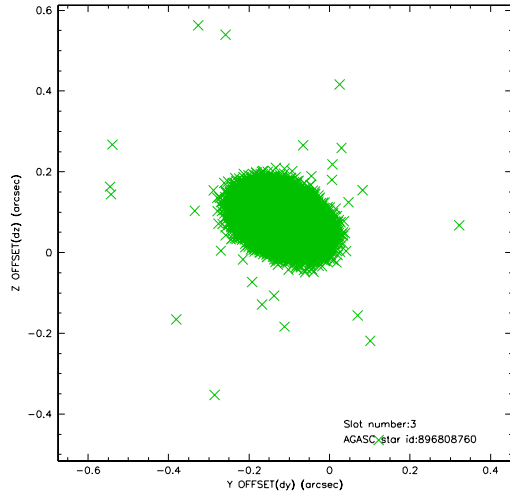


Slot Statistics

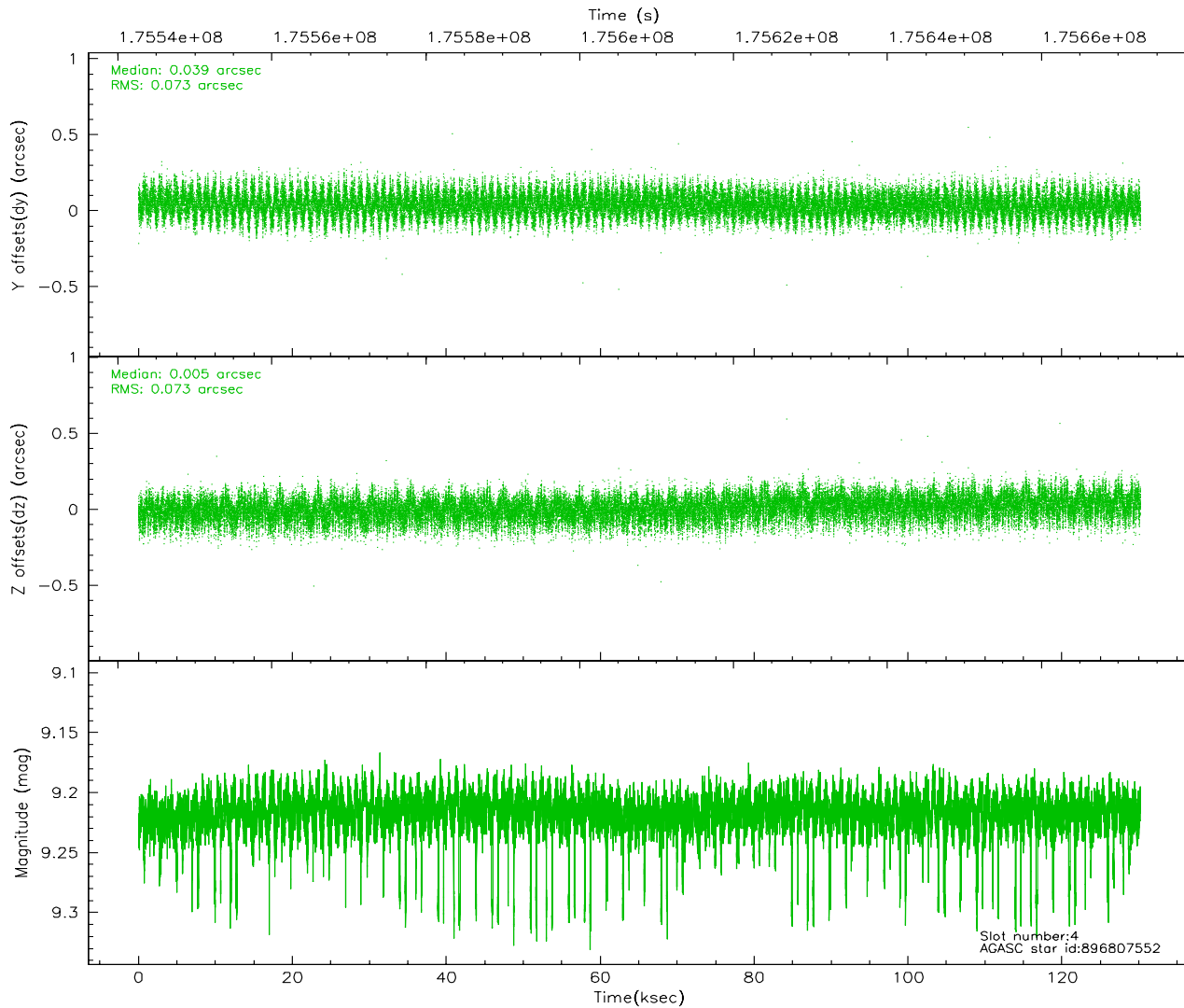
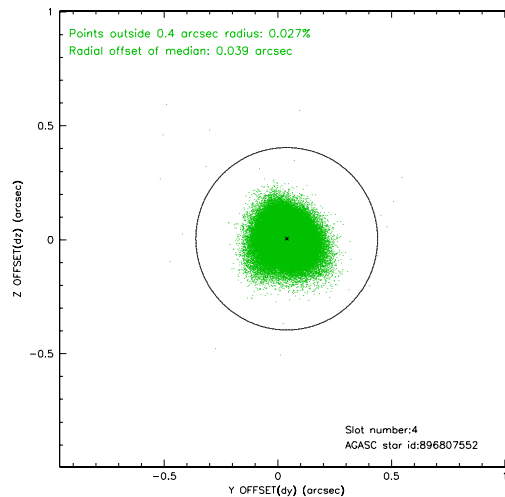
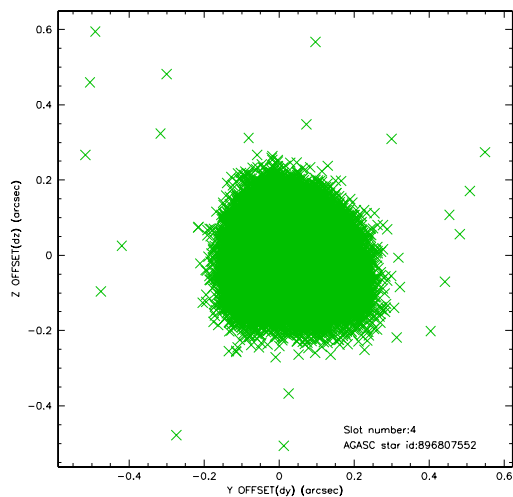
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	31755	-0.105	-0.023	0.015	0.029	0.000000	0.000000	-759.95	-837.98
1	FID	ACIS-I-4	7.19	31751	0.026	0.071	0.024	0.036	0.000000	0.000000	2154.29	1068.34
2	FID	ACIS-I-6	7.26	31758	-0.025	0.015	0.026	0.038	0.000000	0.000000	400.08	1710.36
3	GUIDE	896808760	7.96	63514	-0.123	0.079	0.057	0.096	271.232719	-23.698206	-2307.28	1107.57
4	GUIDE	896807552	9.22	63355	0.039	0.005	0.111	0.175	271.624054	-24.159158	-601.83	2333.81
5	GUIDE	897321504	8.81	63504	0.025	-0.035	0.098	0.156	270.176705	-24.677132	1106.77	-2469.05
6	GUIDE	897325632	8.56	63495	0.164	-0.083	0.095	0.148	270.212330	-24.788521	1511.01	-2363.81
7	GUIDE	897321352	7.41	63515	-0.101	0.035	0.048	0.084	270.295938	-25.001856	2286.15	-2112.33

2.4 Star Slots

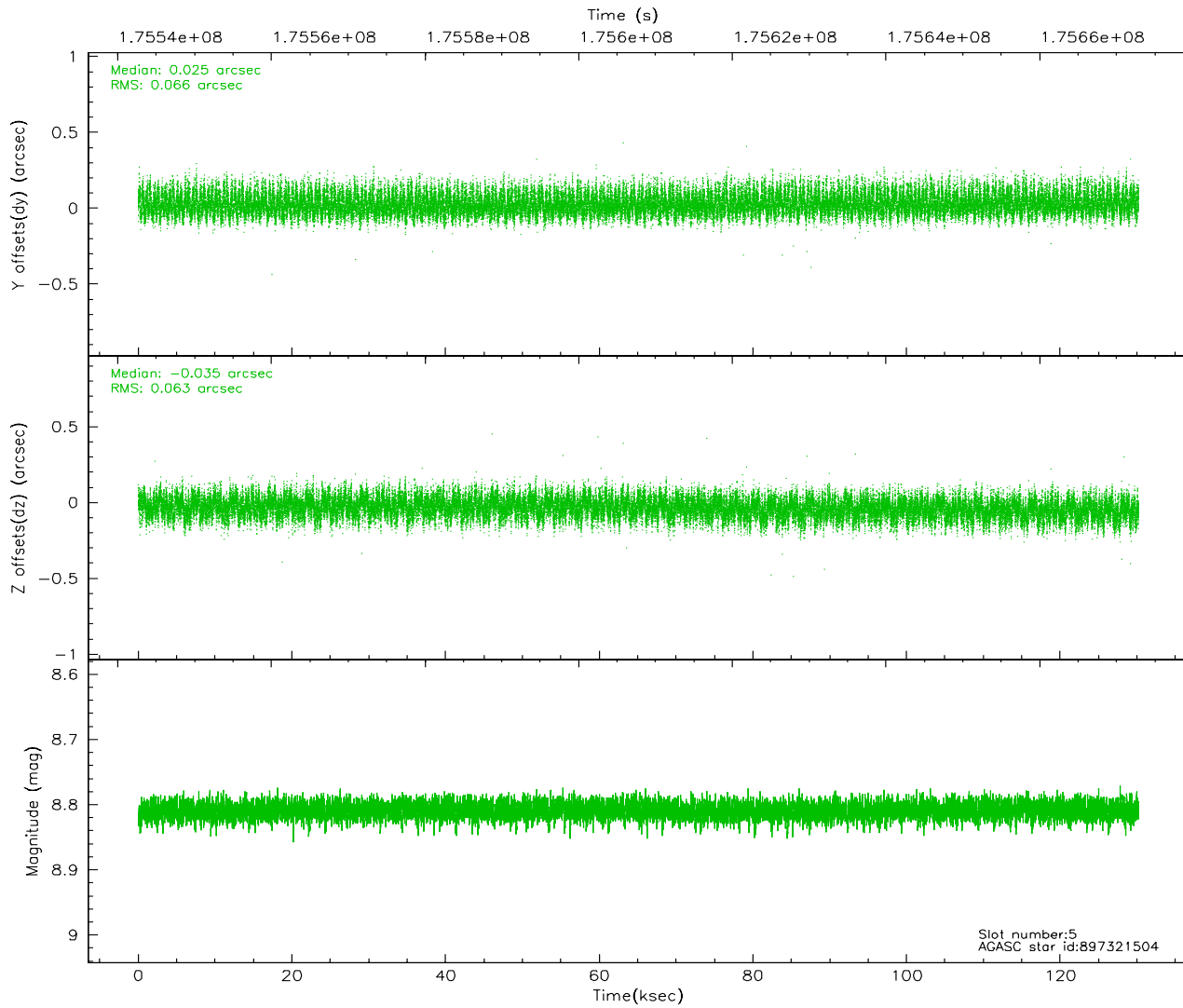
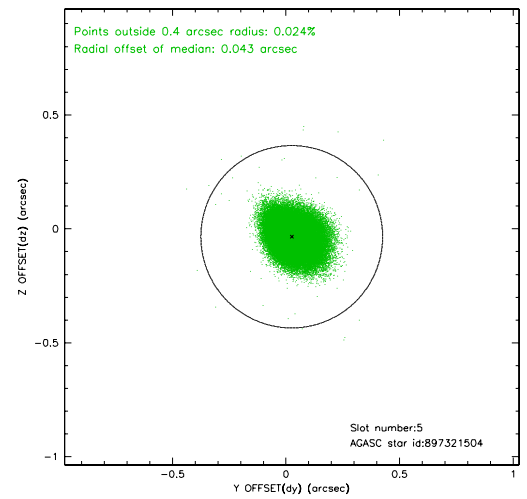
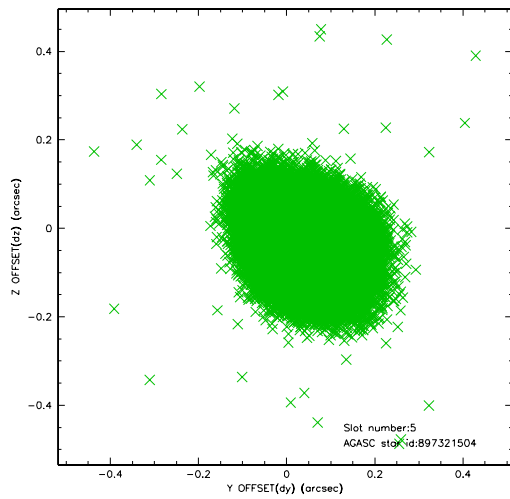
2.4.1 Slot 3



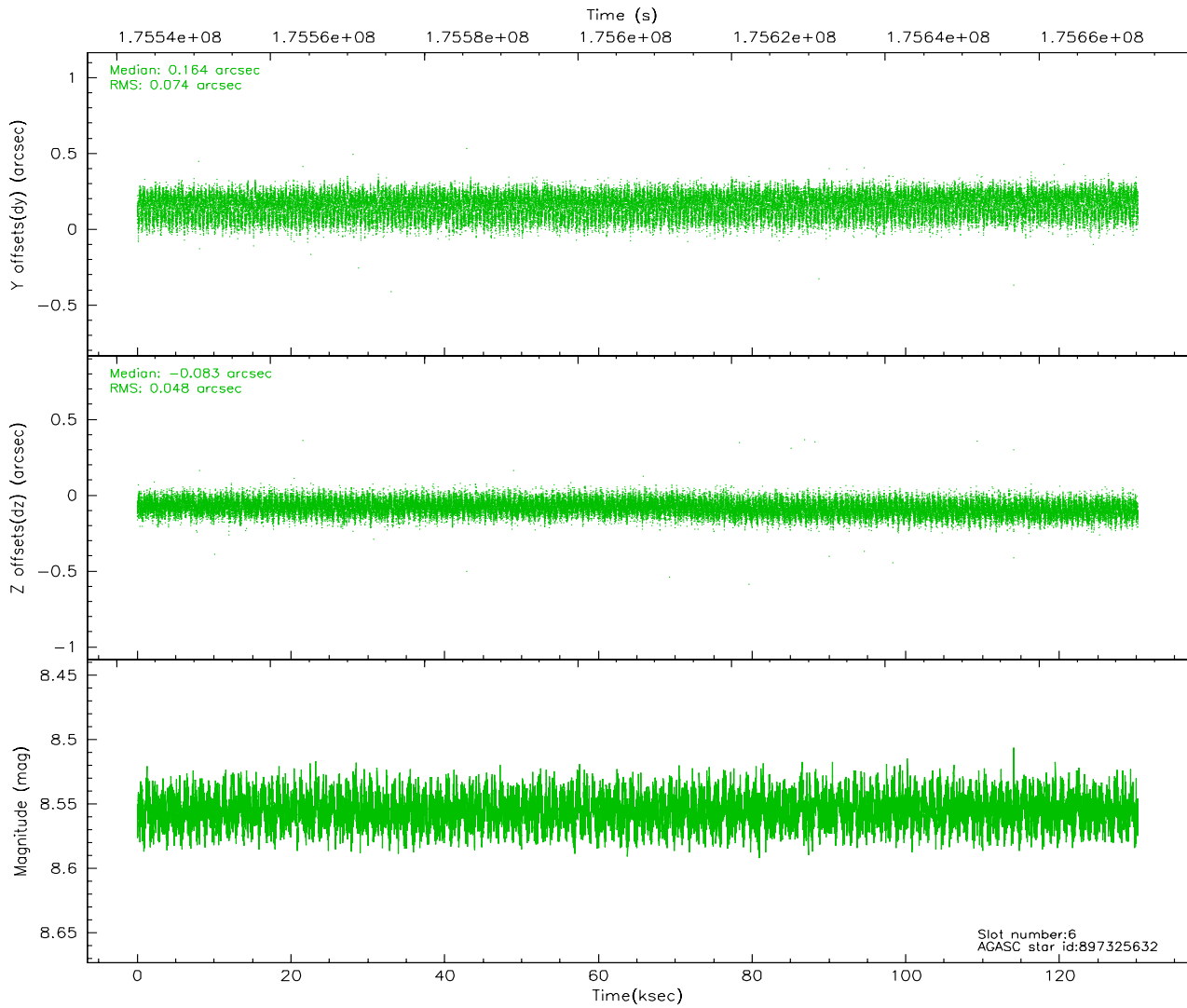
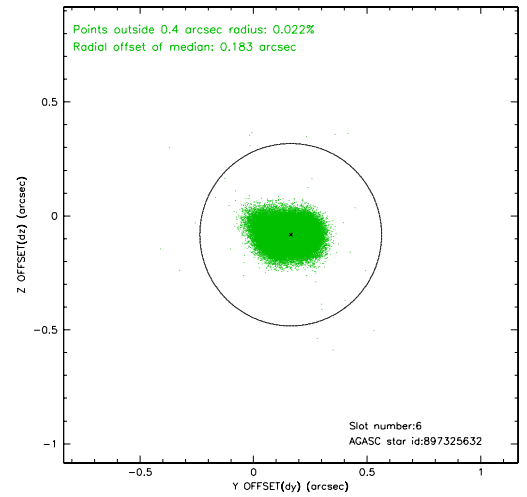
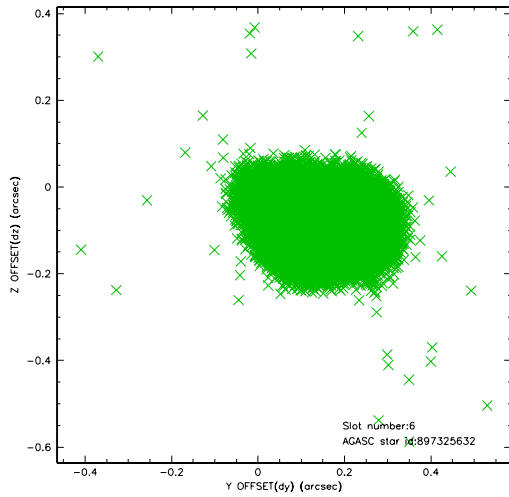
2.4.2 Slot 4



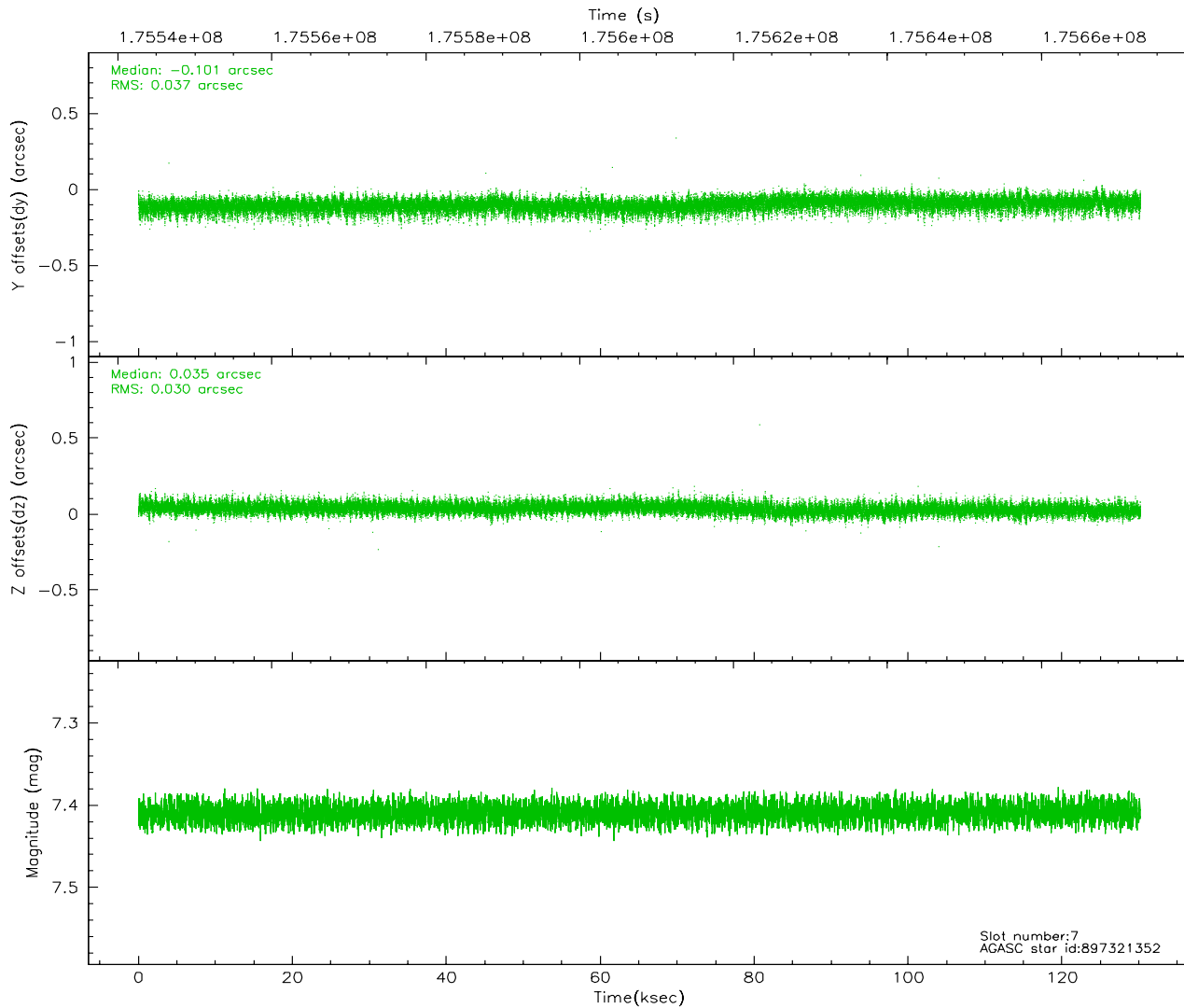
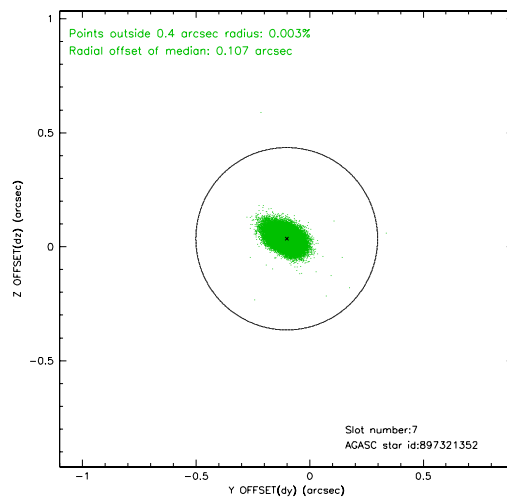
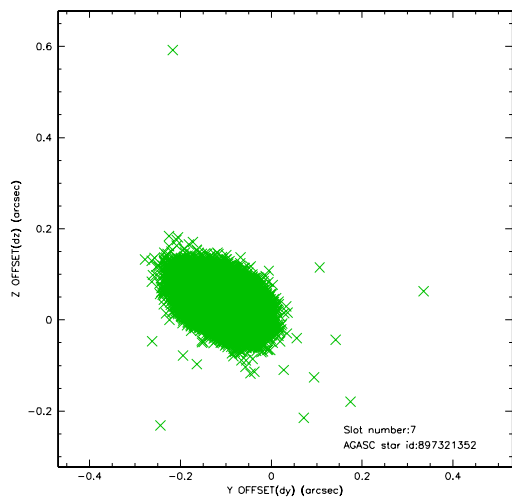
2.4.3 Slot 5



2.4.4 Slot 6

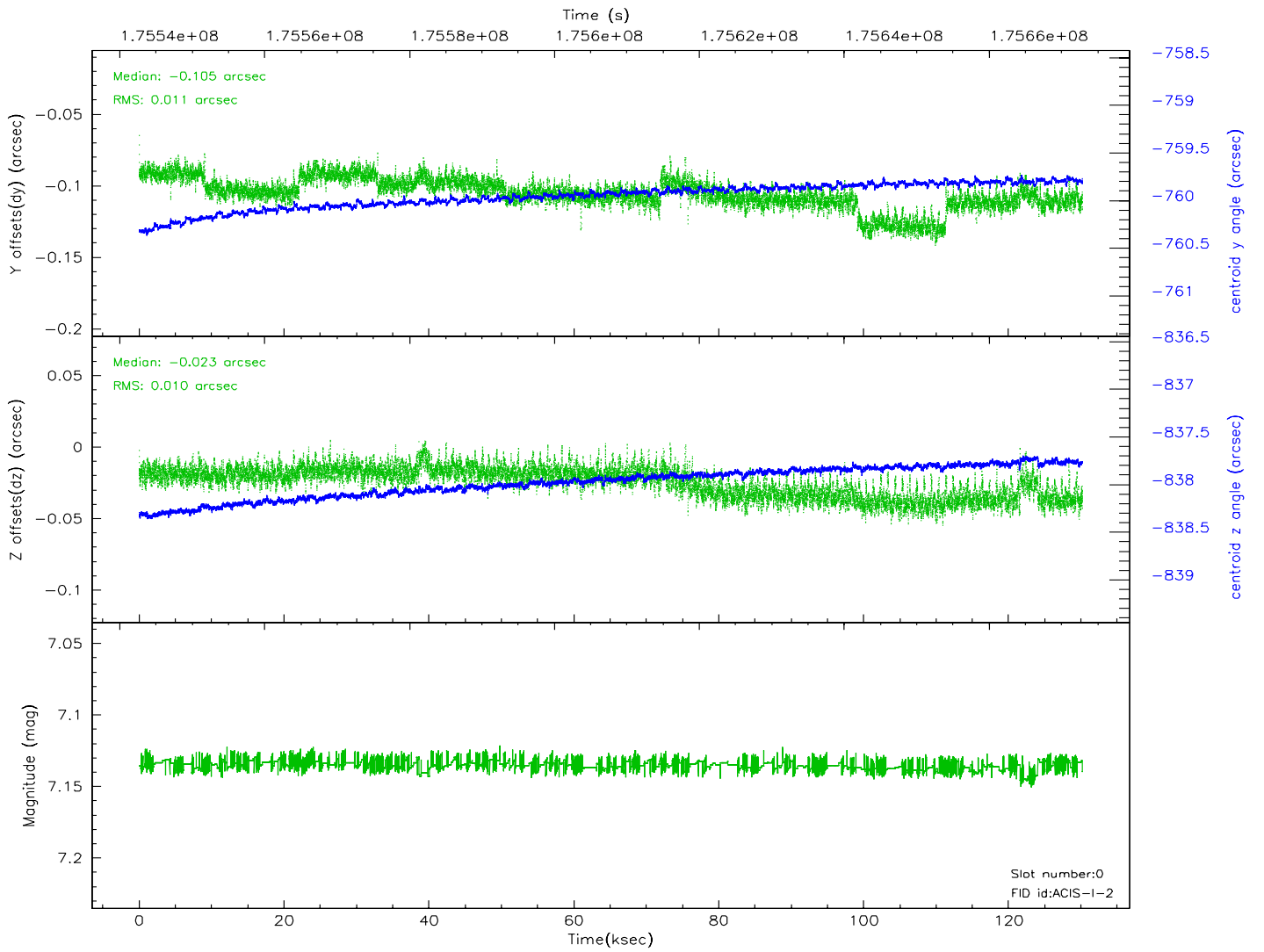
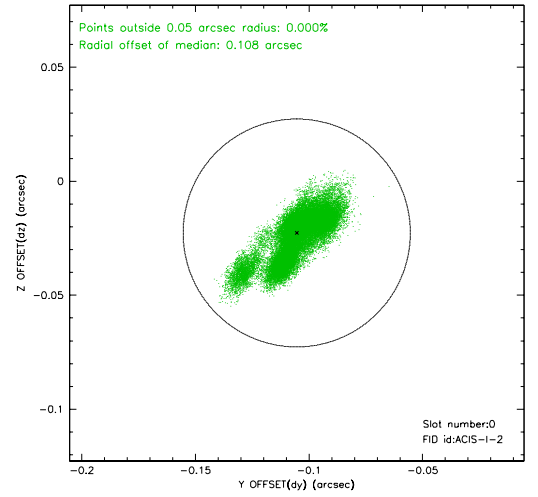
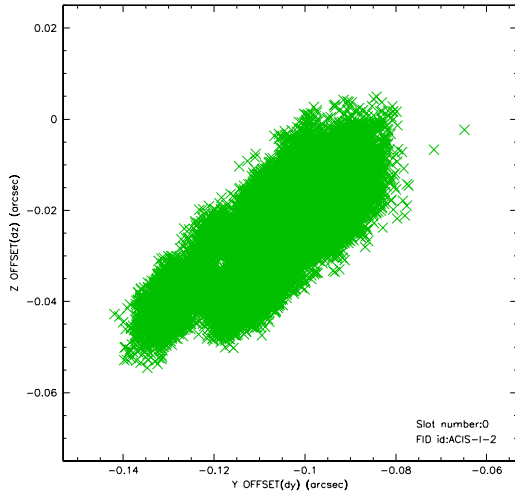


2.4.5 Slot 7

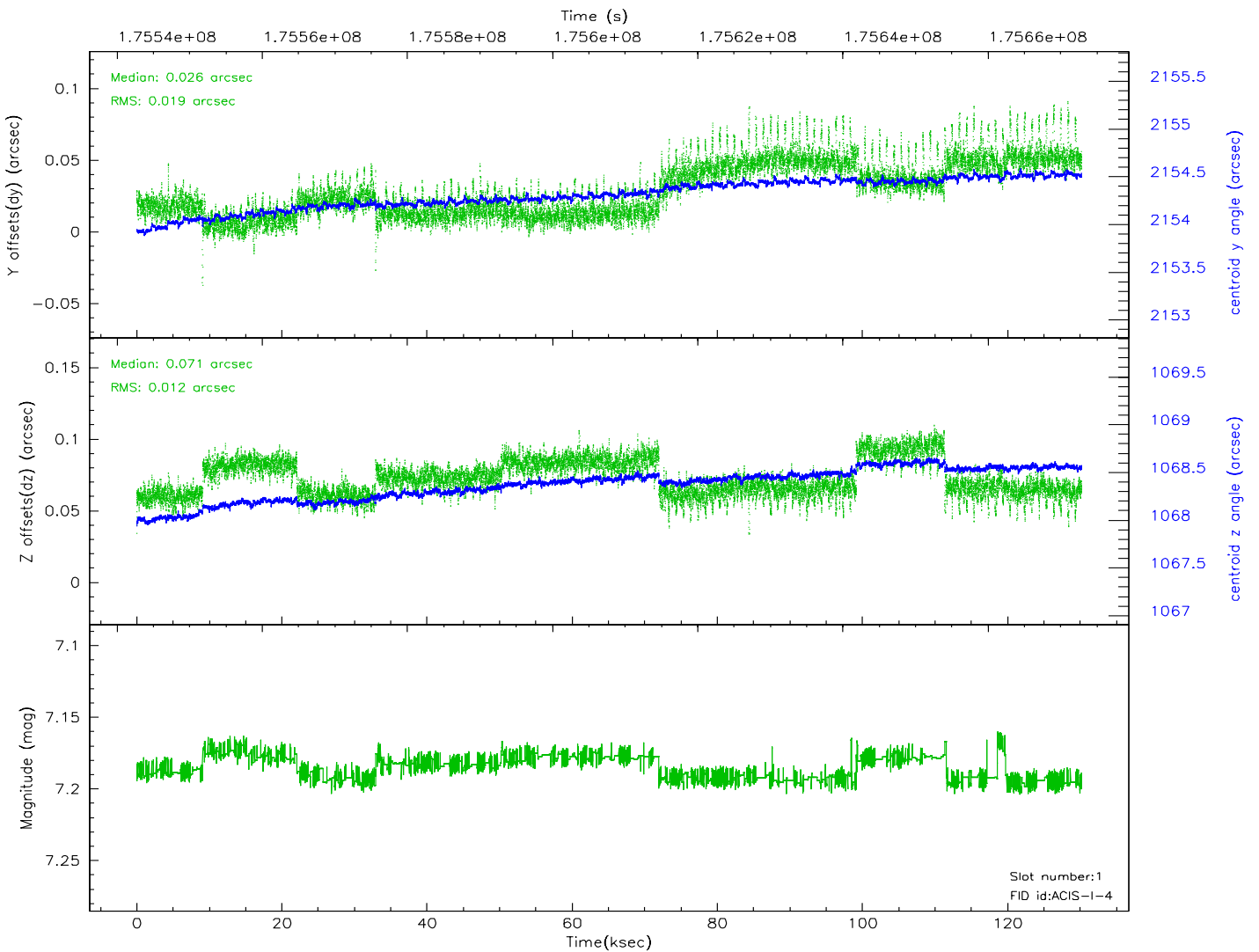
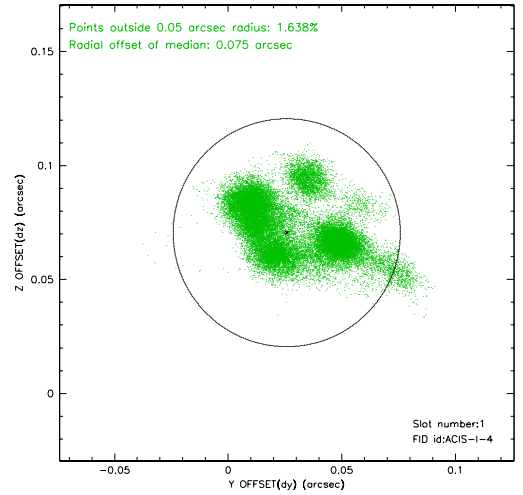
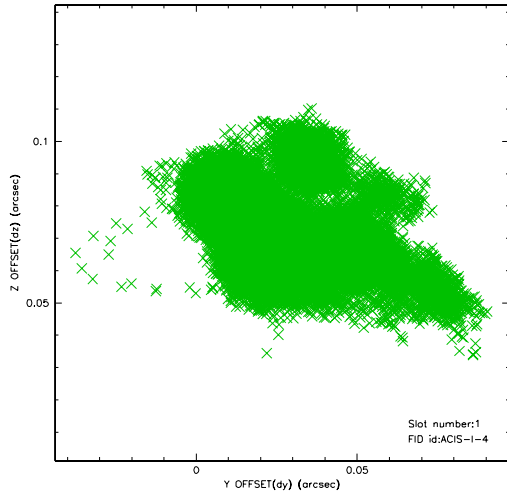


2.5 FID Slots

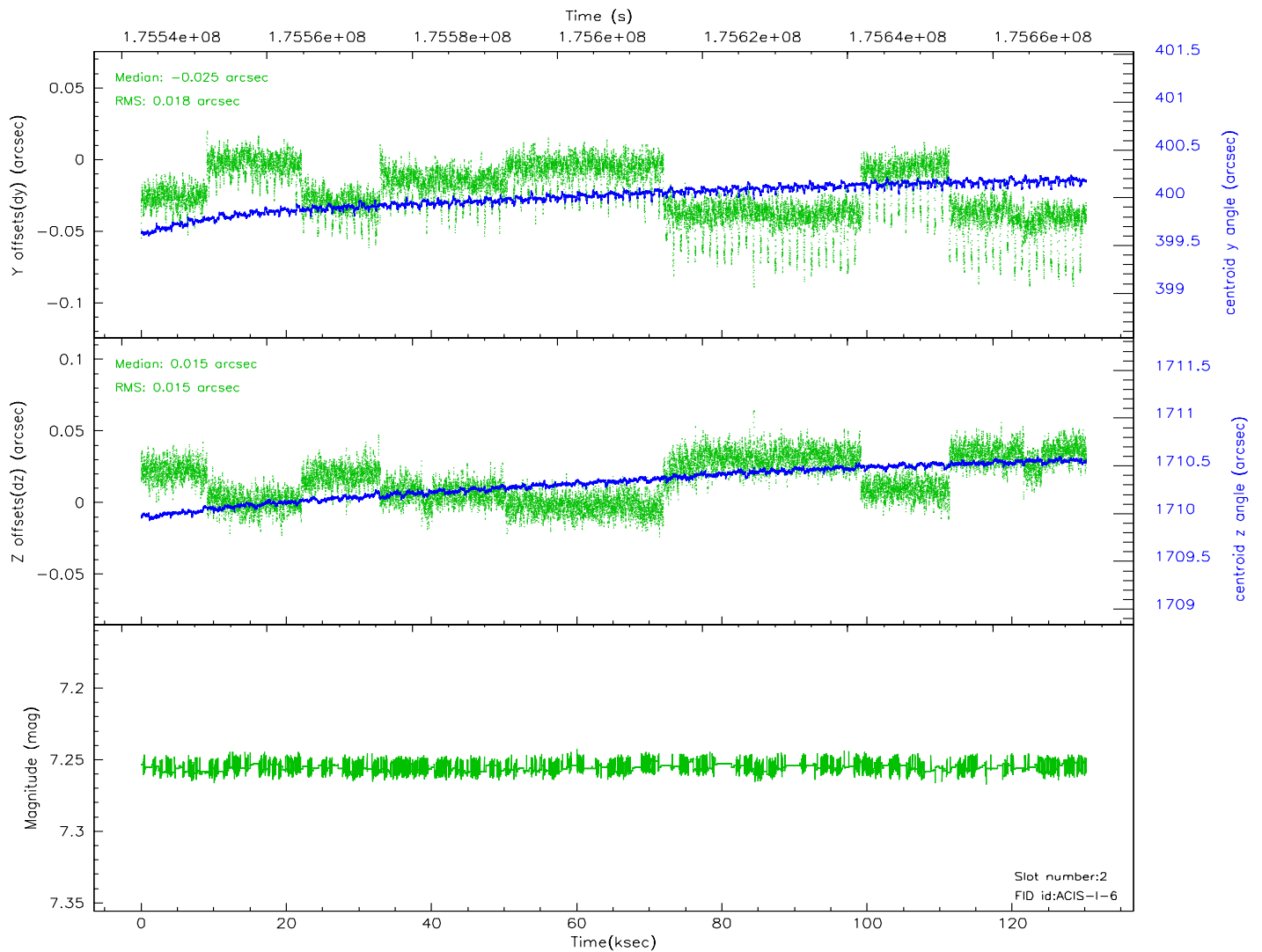
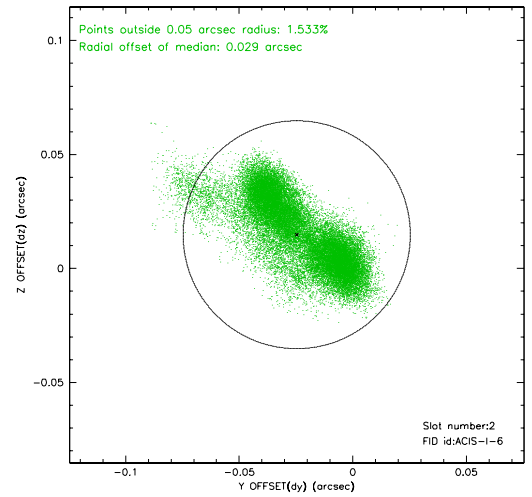
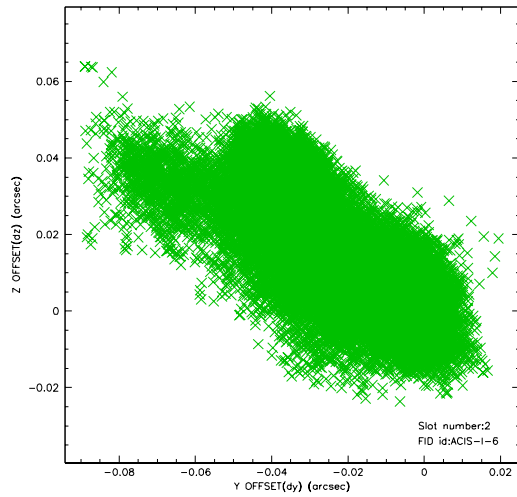
2.5.1 Slot 0



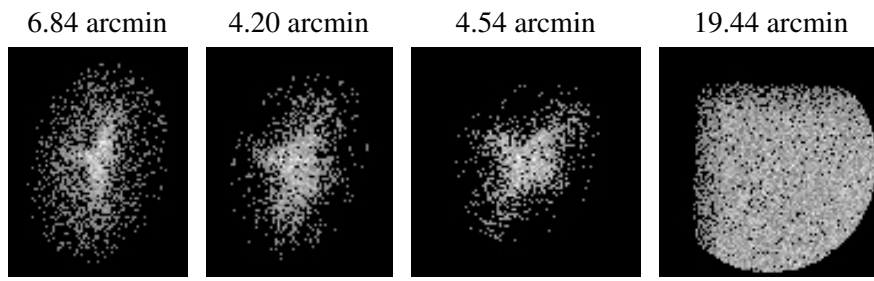
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.07.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	129.595

A.2 Comments

Many sources in this observation. Some of the sources are dithered onto CCD node boundaries and other columns of the CCD that have lower sensitivity than the majority of the CCD columns. Care should be taken to exposure-correct sources that fall on less sensitive columns of the CCD, such as node boundaries, before doing analysis.

One apparently abnormal spike in the number of events sent from ACIS and the count_rate about 118 ksec into the observation, lasting about 100-200 sec. This time is marked as bad by the processing.