

V&V Reference Report

L2 ASCDS Version : 7.6.11.2

Observation 795 - L2 Version 4
Chandra X-Ray Center

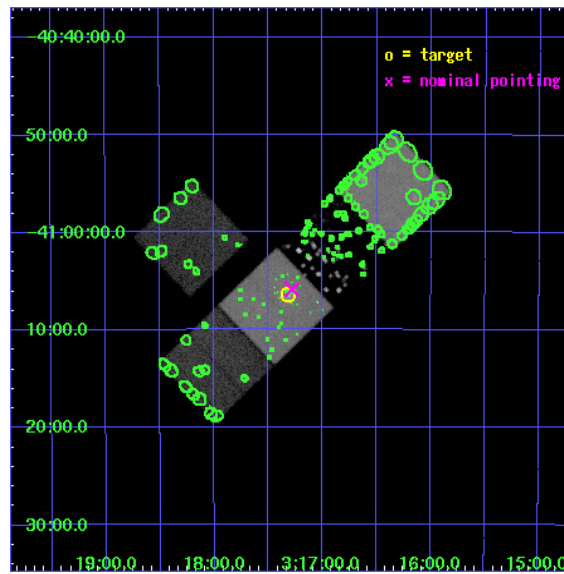
L2 Processing Date : Nov 1 2007

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1 Front

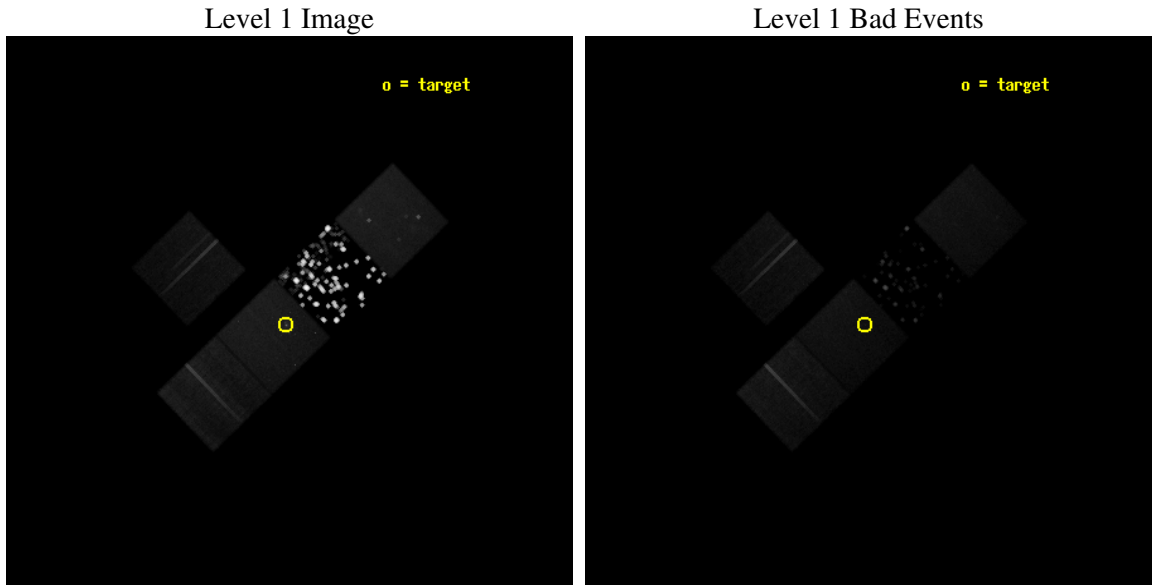
seq_num	600098
obs_id	795
title	THE IMPORTANCE OF LOW MASS X-RAY BINARIES TO THE X-RAY EMISSION FROM SA GALAXY BULGES
observer	Dr. Jimmy Irwin
object	NGC 1291
dtcycle	0
cycle	P
ra_targ	49.328333
dec_targ	-41.106361
ra_nom	49.320652033683
dec_nom	-41.098252910037
roll_nom	136.09354189625
revision	4
ontime	39670.400036946
livetime	39168.069545031
ontime3	33878.178622961
ontime5	39670.400036946
ontime6	18697.462694332
ontime7	39670.400036946
ontime8	38322.151200429
l2events	365022



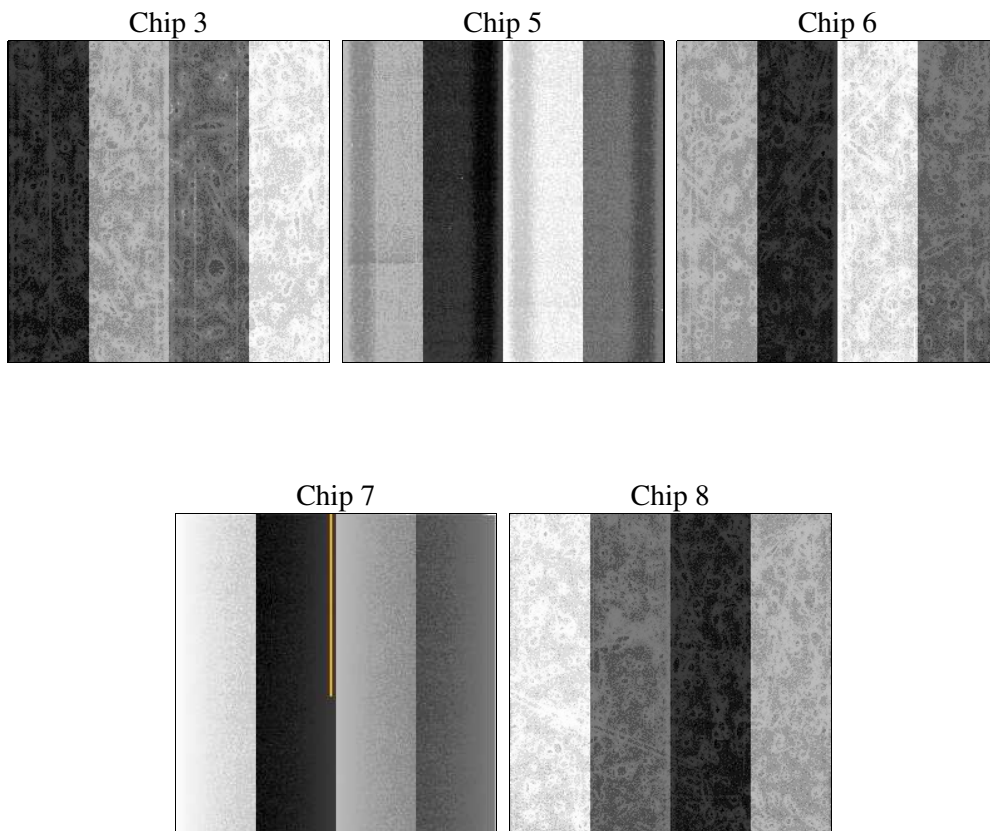
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.11.2
caldsver	3.4.1
date	2007-11-01T20:16:40
revision	4

sched_exp_time	39500.000000
ontime	39670.400036946
ontime3	33878.178622961
ontime5	39670.400036946
ontime6	18697.462694332
ontime7	39670.400036946
ontime8	38322.151200429
l1events	7090976

2.1.4 Events

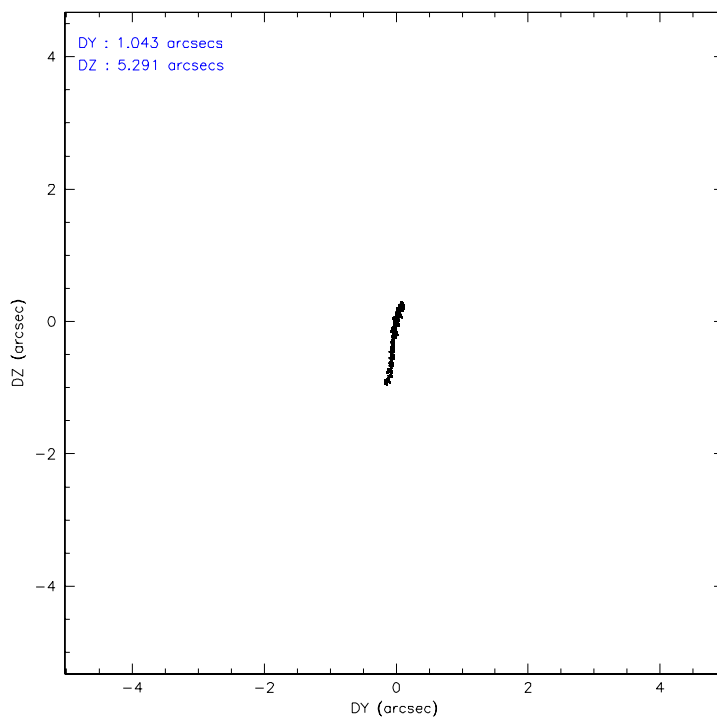
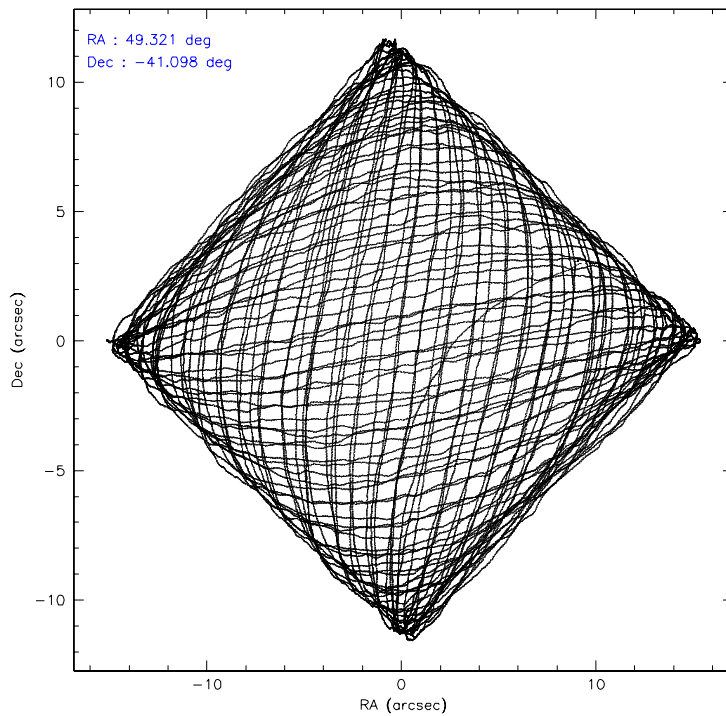
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	215030	343077	5905347	319398	308124
rejected events	191667	179918	36739	174756	244104
rejected %	89%	52%	0%	54%	79%

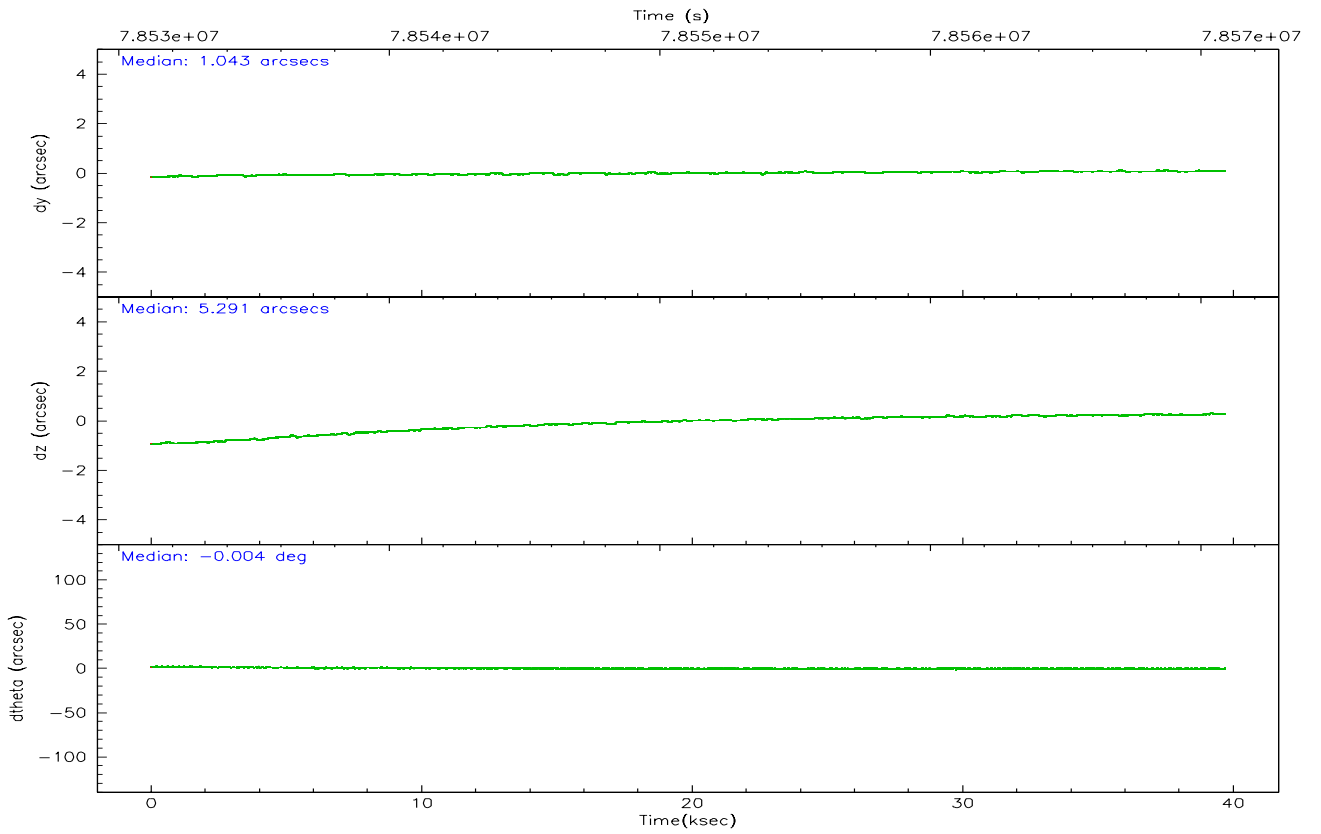
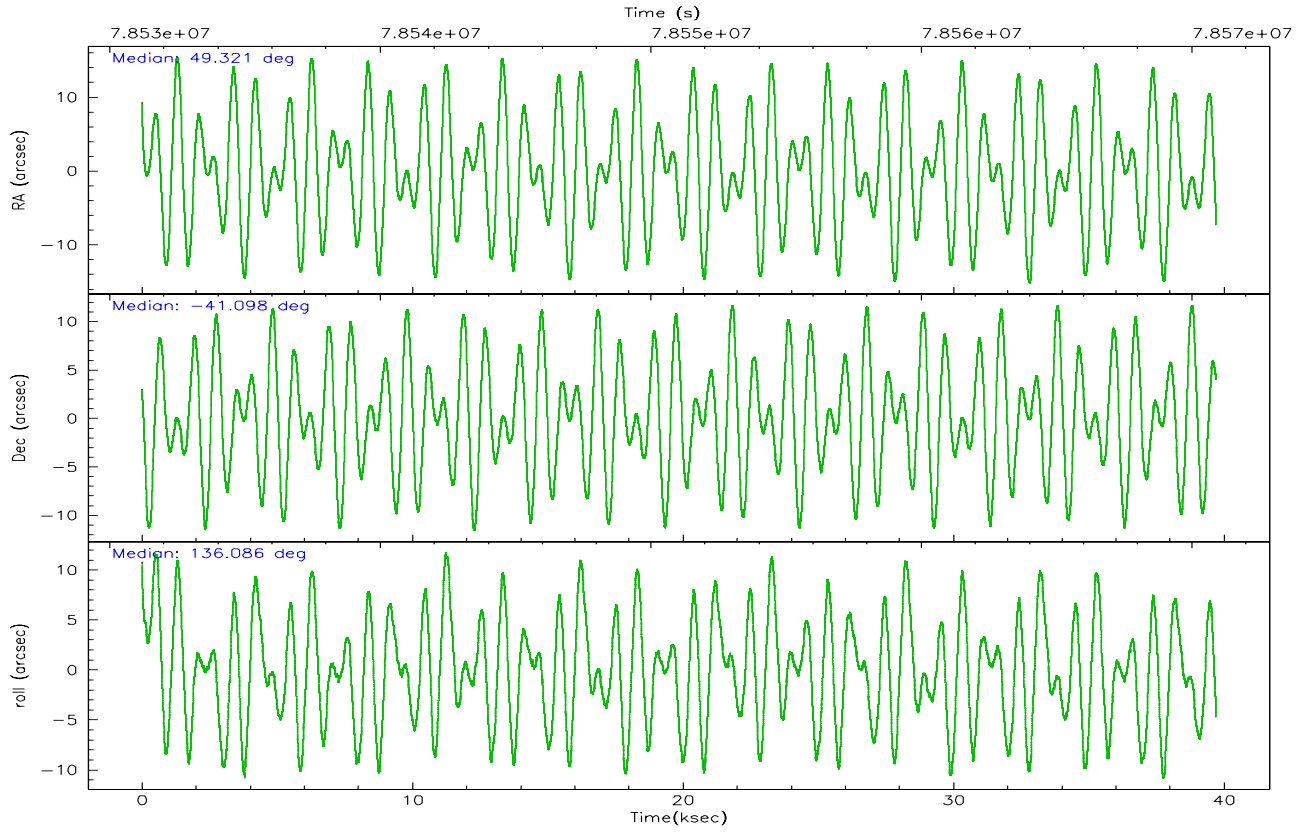
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	10008	20982	5860970	17086	20962
	4%	6%	99%	5%	6%
grade 1 events	91	628	8299	318	178
	0%	0%	0%	0%	0%
grade 2 events	4691	45377	2851	29033	12914
	2%	13%	0%	9%	4%
grade 3 events	2236	7413	2143	13283	7783
	1%	2%	0%	4%	2%
grade 4 events	2312	7409	1541	13297	7012
	1%	2%	0%	4%	2%
grade 5 events	7446	25406	4682	29368	11784
	3%	7%	0%	9%	3%
grade 6 events	4116	81990	2126	71954	15353
	1%	23%	0%	22%	4%
grade 7 events	184130	153872	22735	145059	232138
	85%	44%	0%	45%	75%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	49.355981	49.32065203368342	Subarray requested	NONE	NONE
Pointing Dec	-41.104719	-41.09825291003701	Alternating exposures requested	N	N
Pointing Roll	135.960138	136.0935418962475	Primary exposure time	0.000000	3.2
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	78531401.184000	78530393.55492701			
Observation start date	2000-06-27T22:15:37	2000-06-27T21:59:53			
Observation end time	78570901.184000	78571377.15643799			
Observation end date	2000-06-28T09:13:57	2000-06-28T09:22:57			
Read mode	TIMED	TIMED			

2.3 Aspect



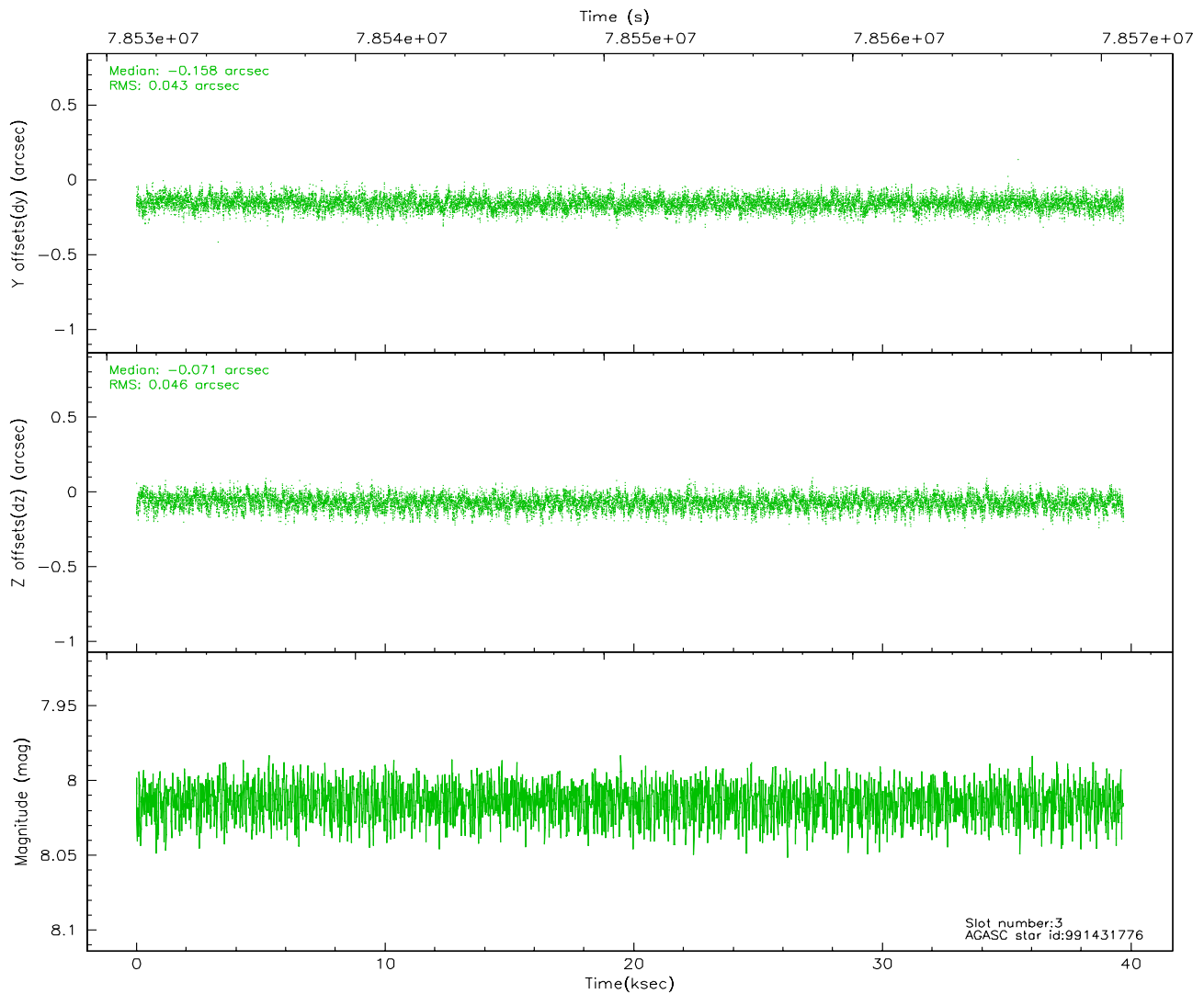
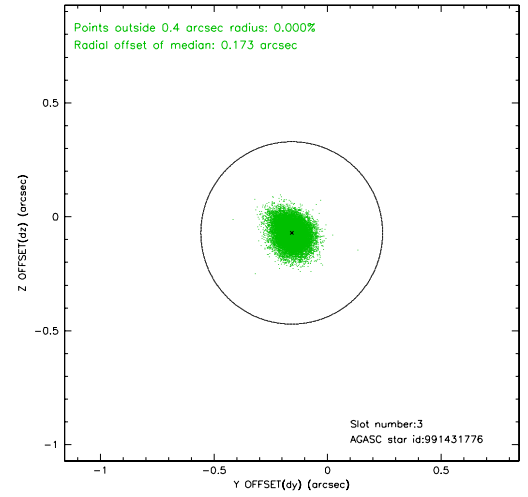
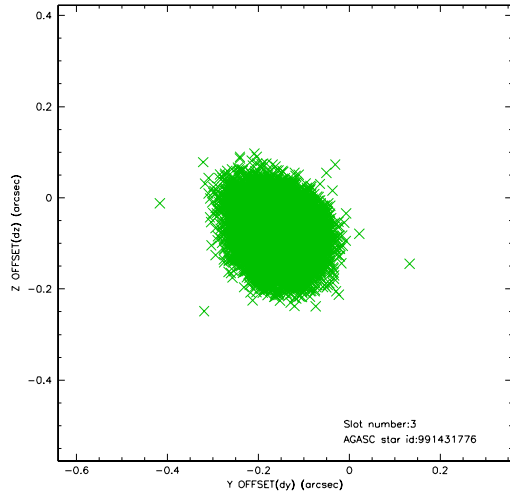


Slot Statistics

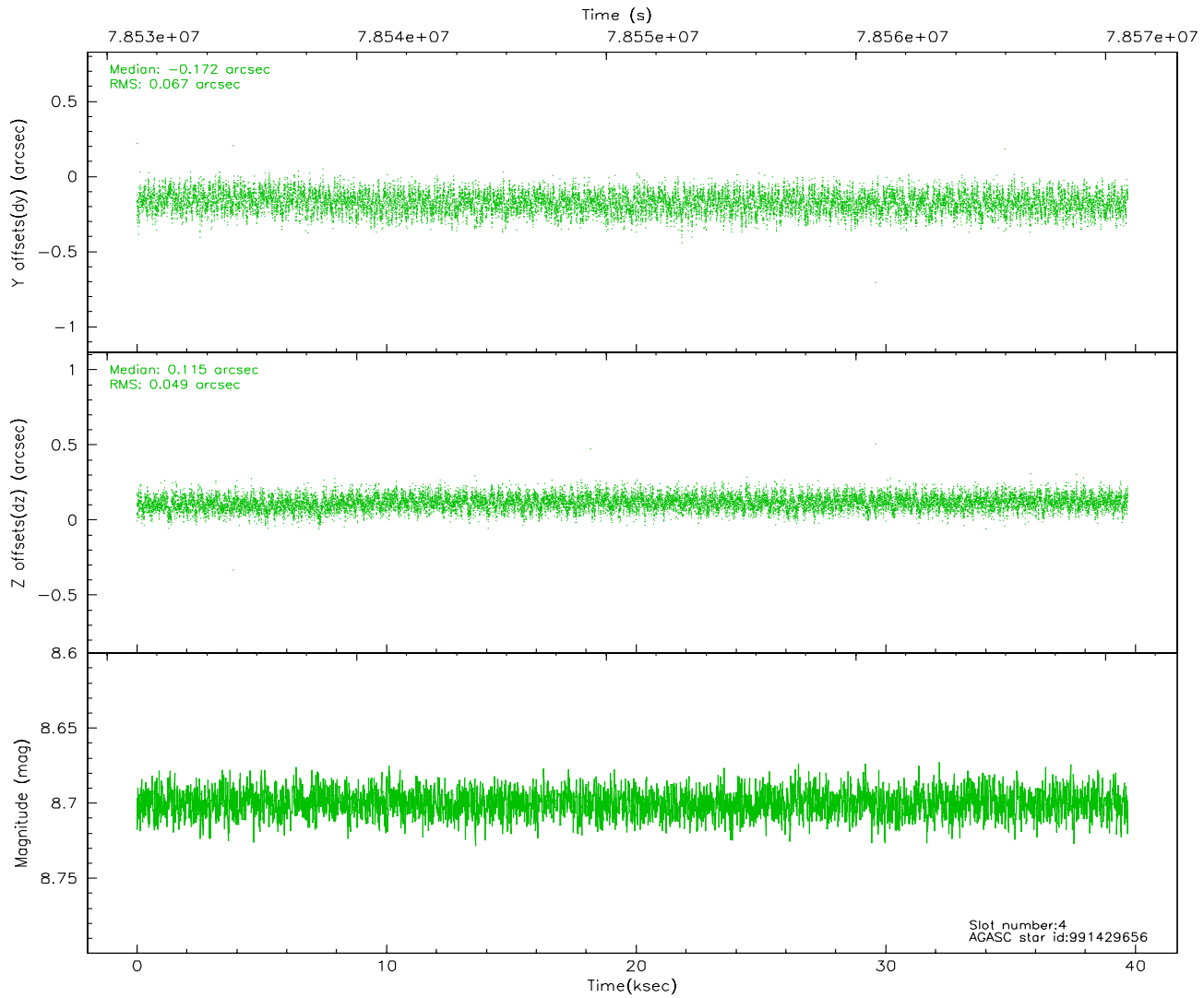
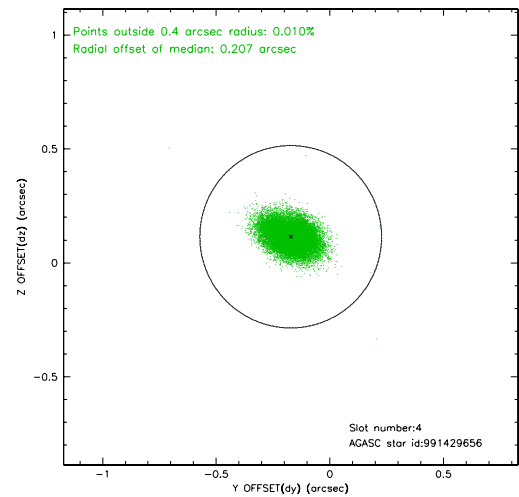
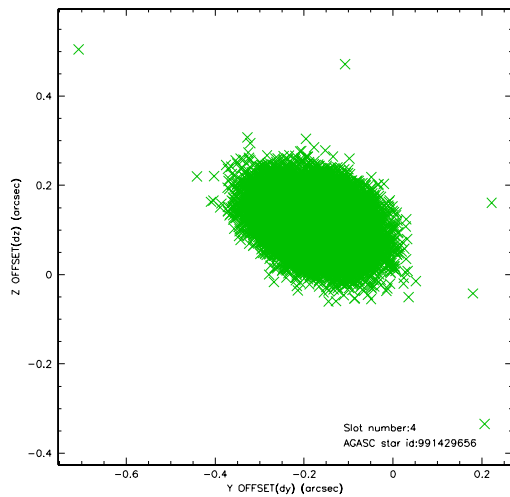
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	9684	-0.024	0.027	0.010	0.030	0.000000	0.000000	-753.65	-1726.26
1	FID	ACIS-S-4	7.21	9683	-0.049	0.005	0.007	0.037	0.000000	0.000000	2159.60	182.20
2	FID	ACIS-S-5	7.23	9684	0.042	-0.022	0.010	0.042	0.000000	0.000000	-1806.41	175.85
3	GUIDE	991431776	8.01	19366	-0.158	-0.071	0.067	0.111	48.819128	-41.230215	727.31	1338.23
4	GUIDE	991429656	8.70	19365	-0.172	0.115	0.088	0.143	49.345871	-40.469939	1608.57	-1623.28
5	GUIDE	992353200	9.17	19361	0.098	0.133	0.076	0.125	50.276402	-41.162632	-1947.00	-1575.14
6	GUIDE	991431272	10.43	19345	0.139	-0.065	0.133	0.219	49.440709	-41.283139	-611.42	302.09
7	GUIDE	991431552	10.44	19353	0.095	-0.113	0.139	0.228	49.452439	-41.408810	-948.39	605.61

2.4 Star Slots

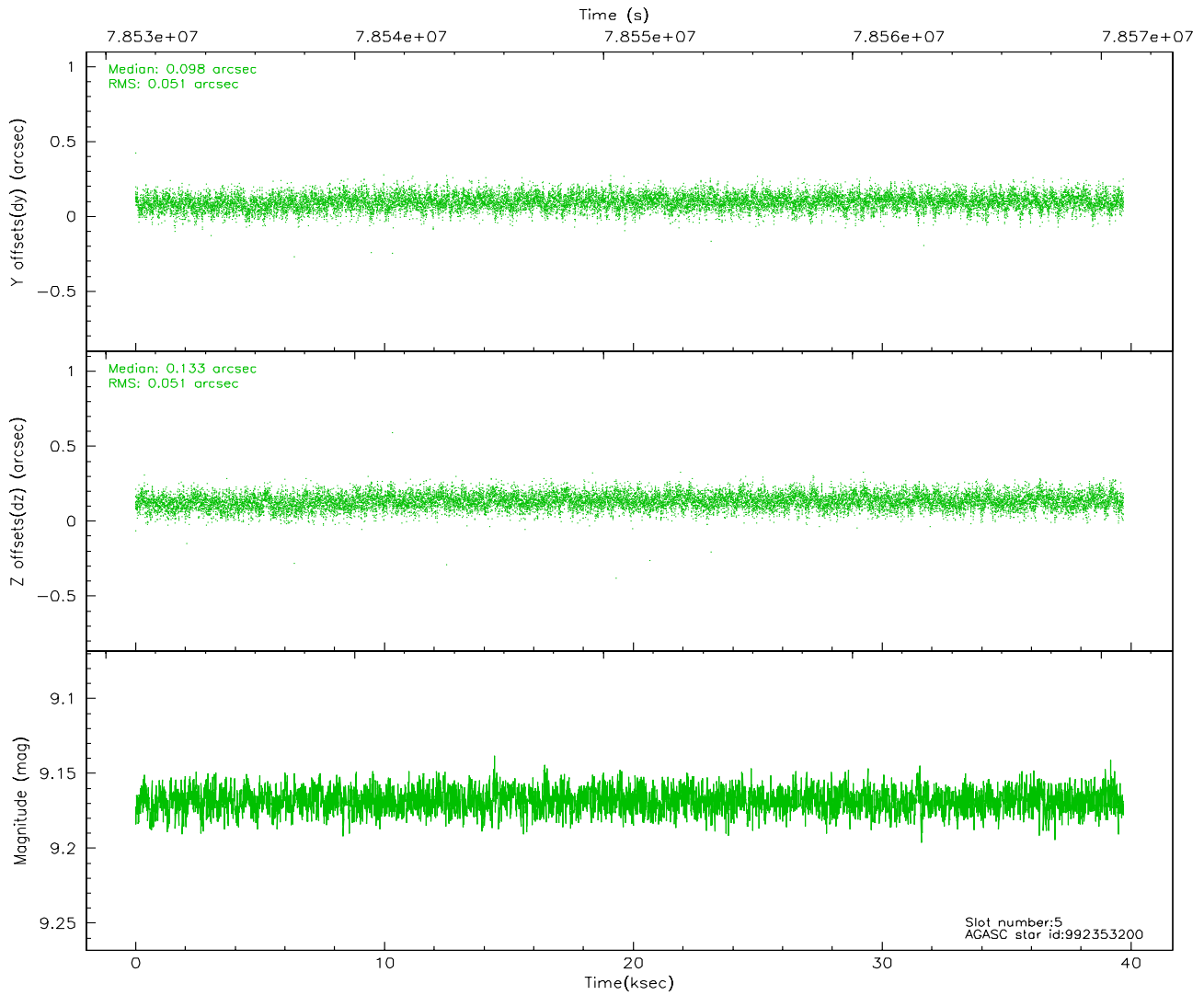
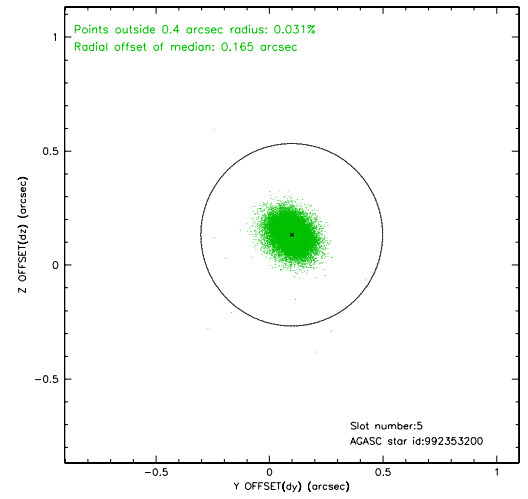
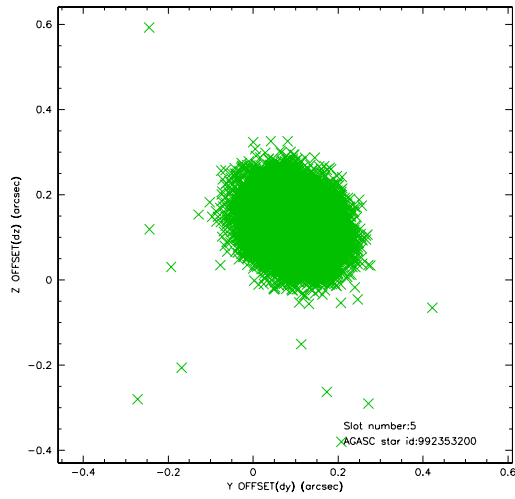
2.4.1 Slot 3



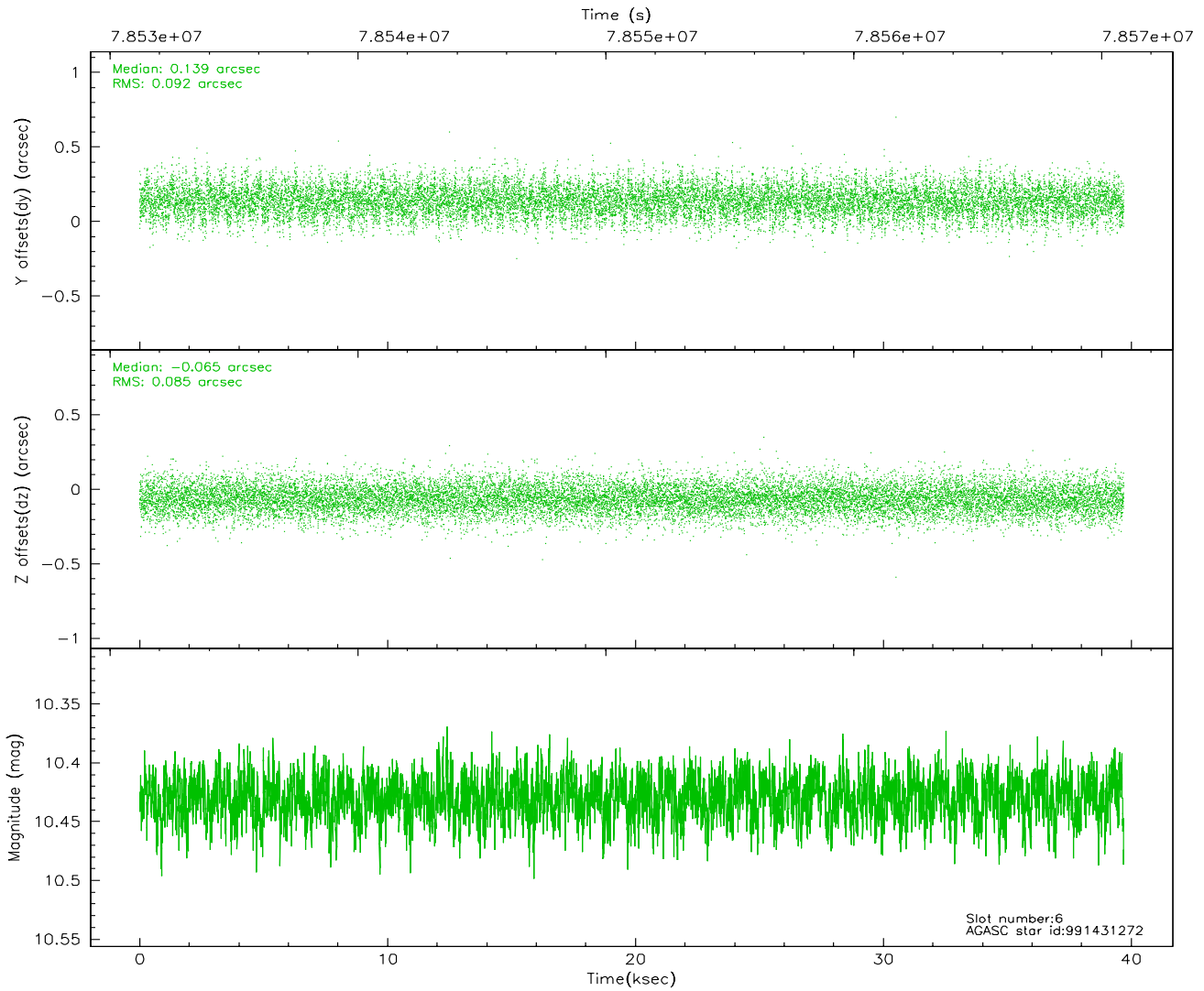
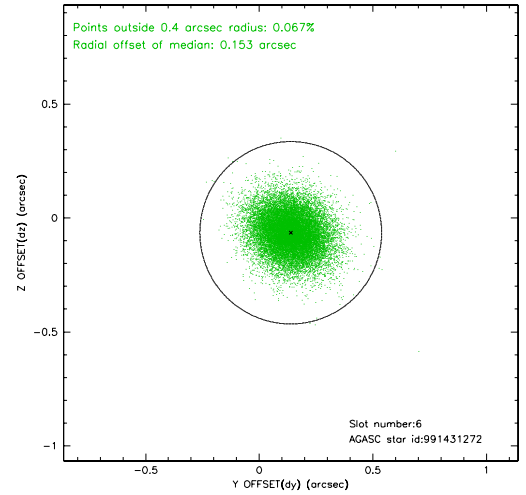
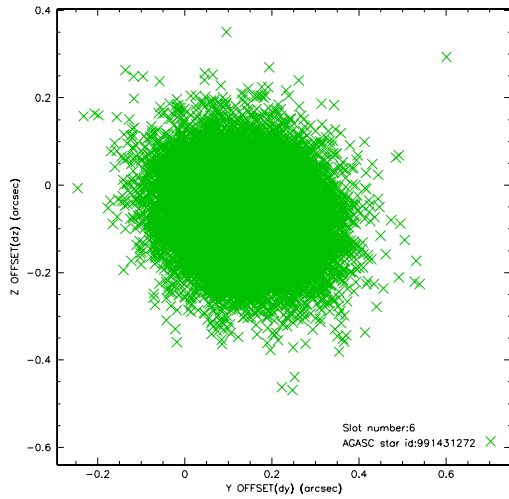
2.4.2 Slot 4



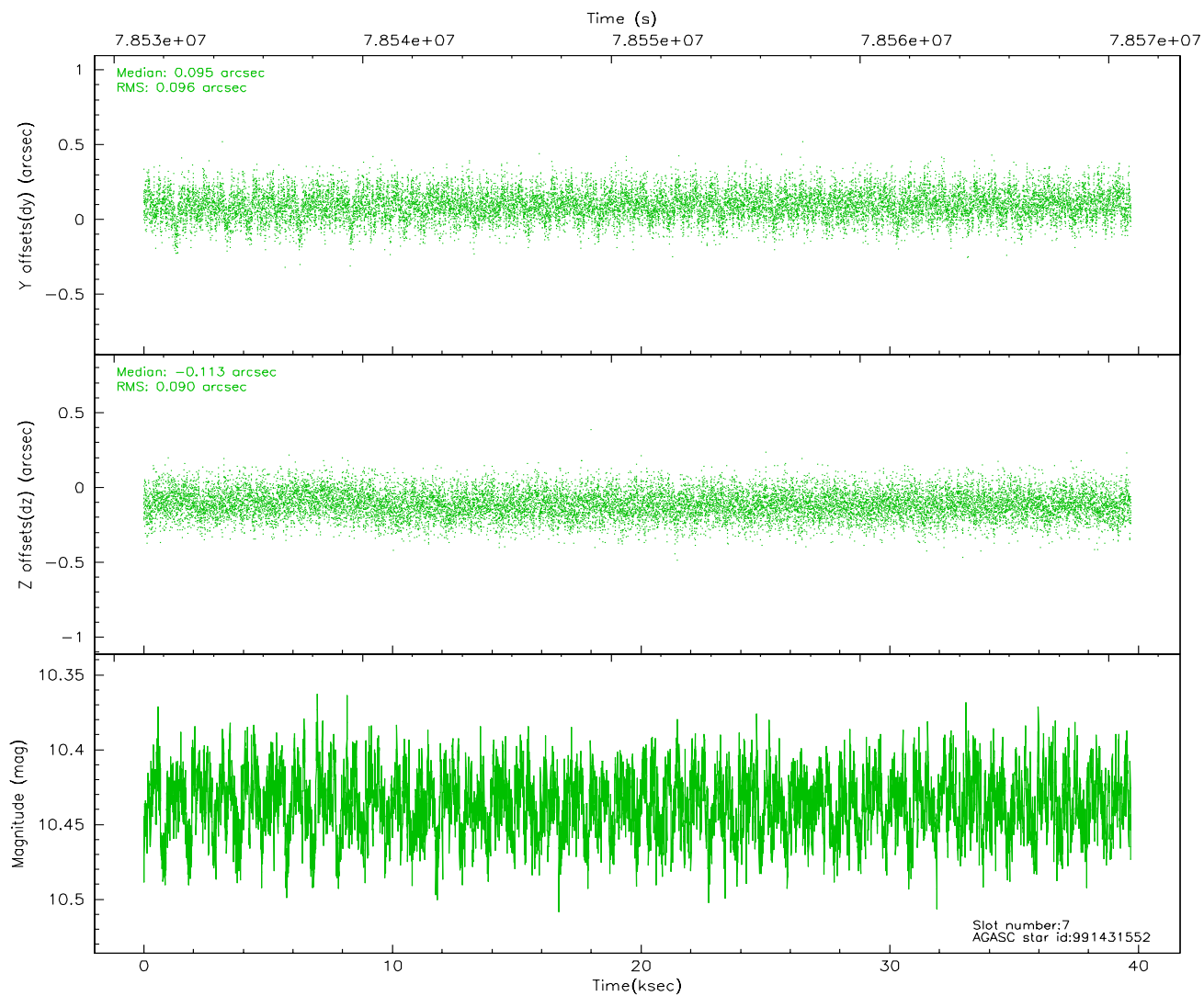
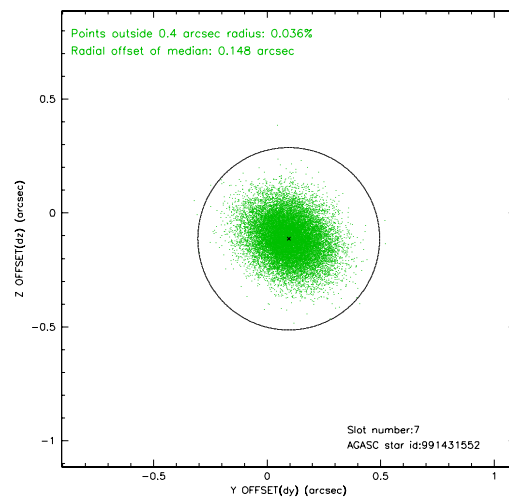
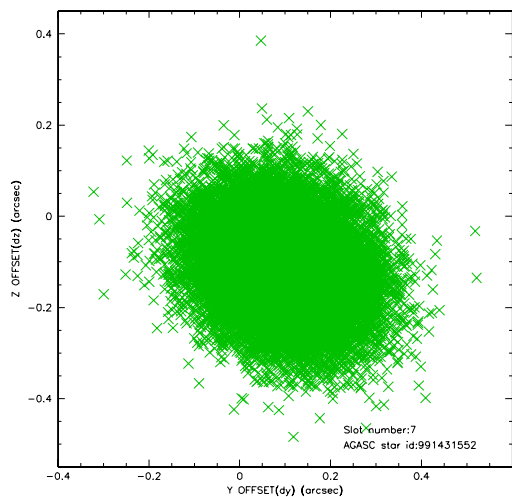
2.4.3 Slot 5



2.4.4 Slot 6

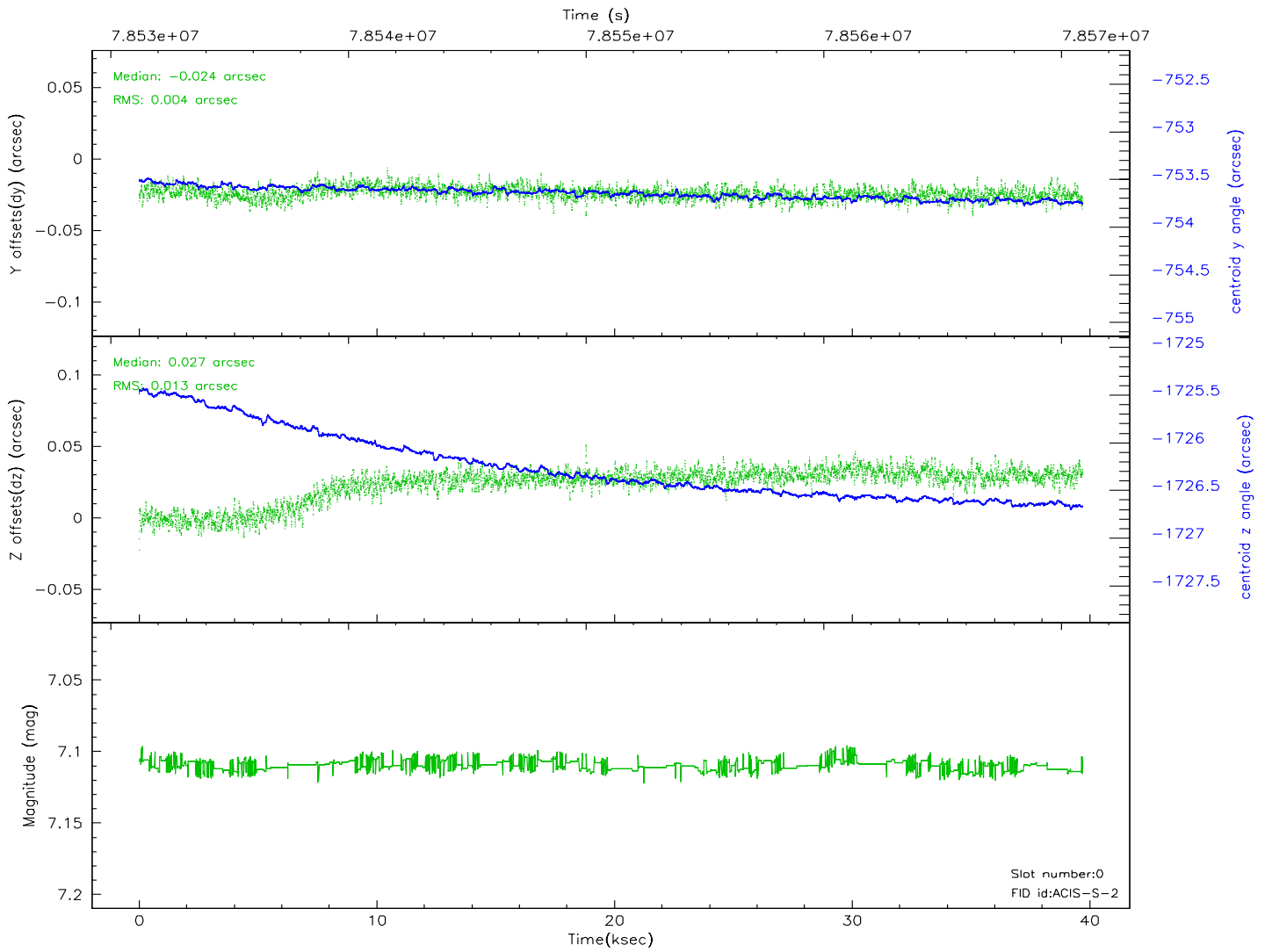
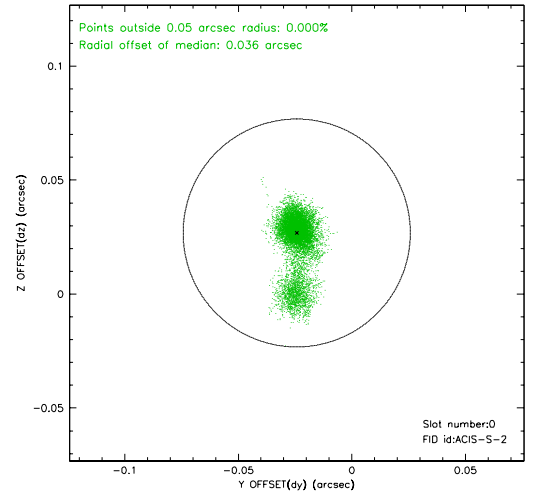
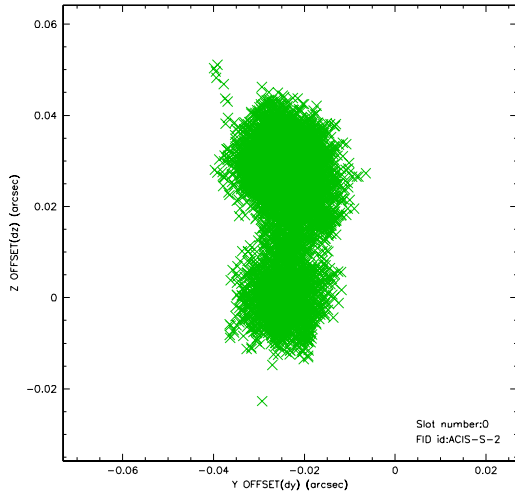


2.4.5 Slot 7

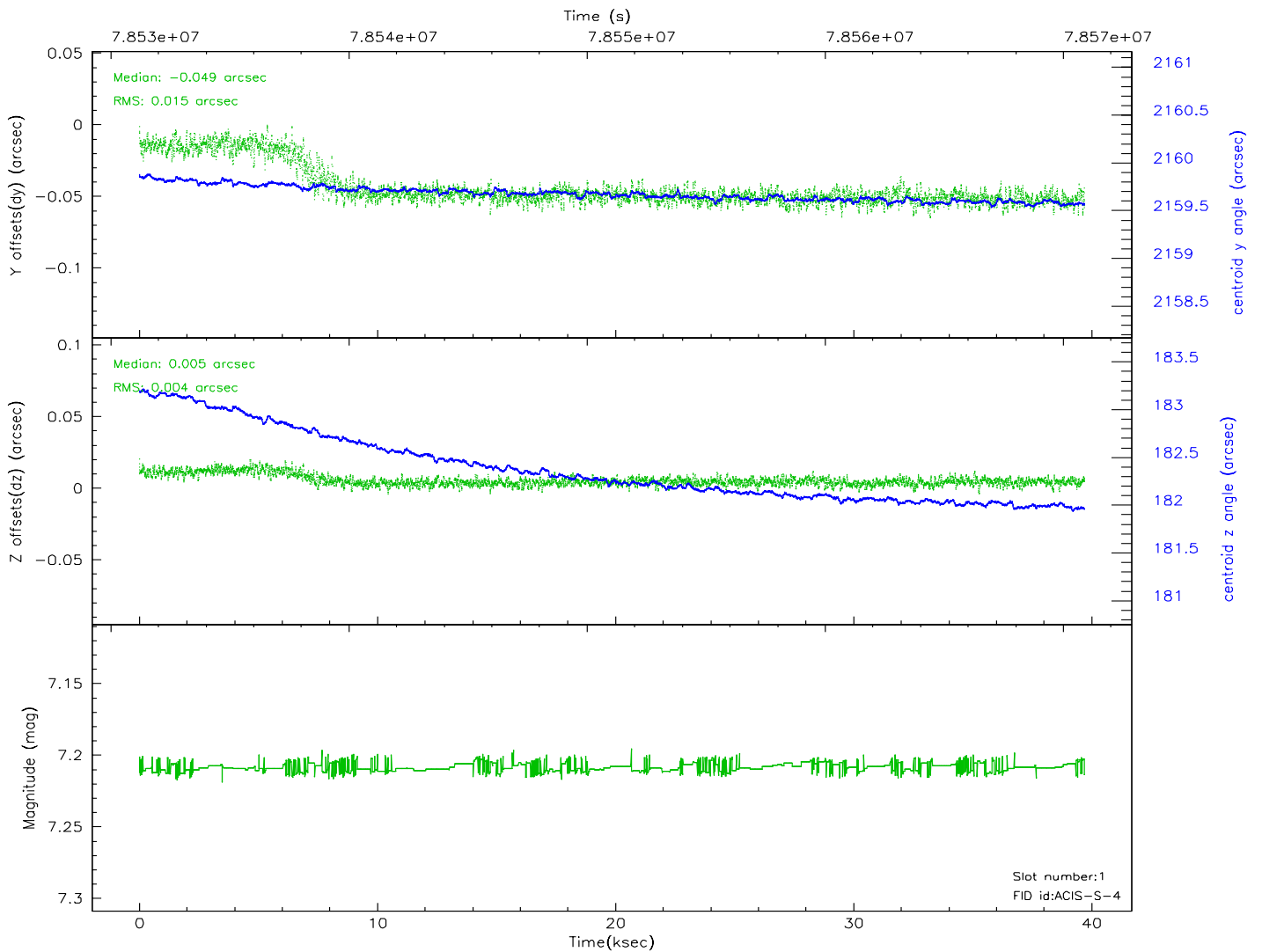
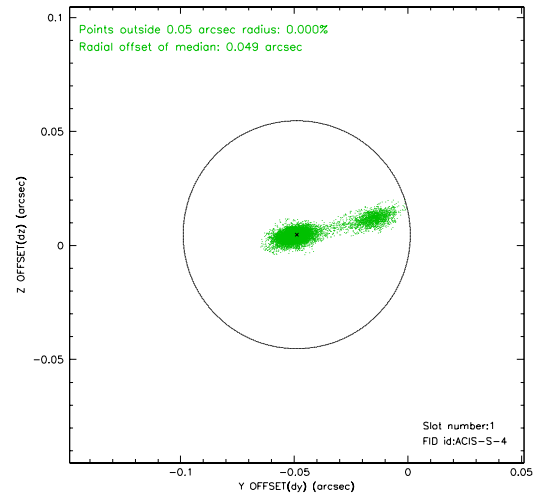
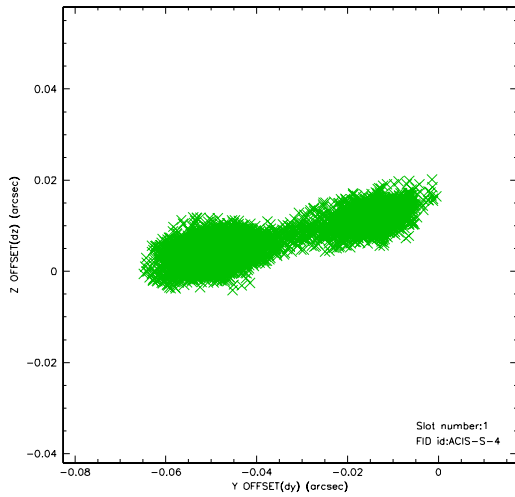


2.5 FID Slots

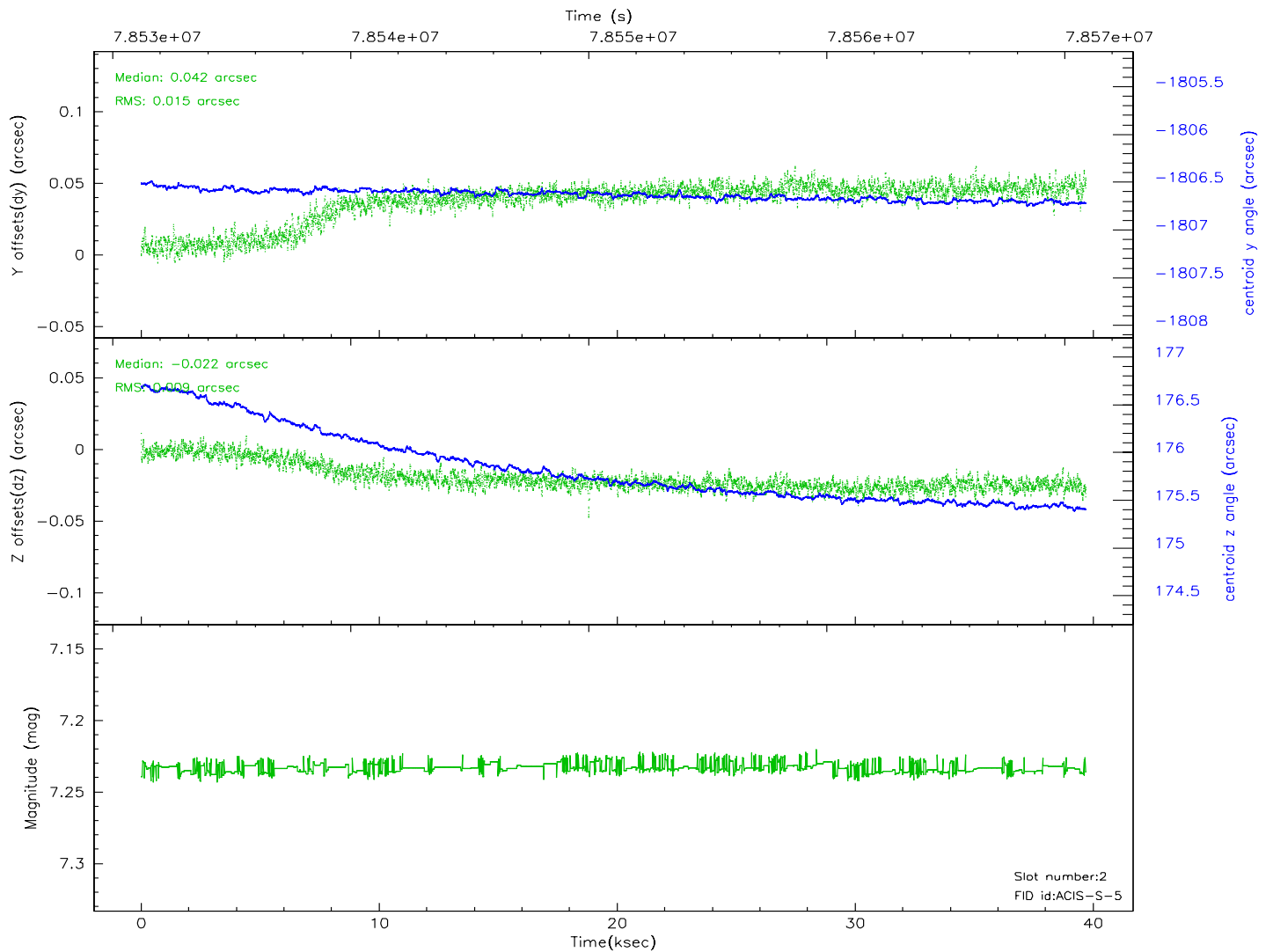
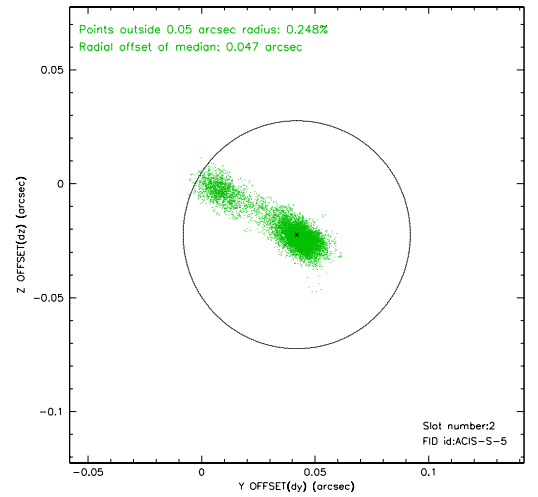
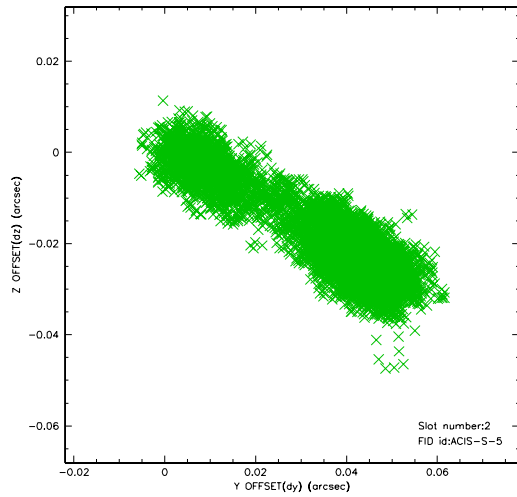
2.5.1 Slot 0



2.5.2 Slot 1

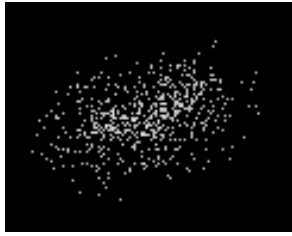


2.5.3 Slot 2

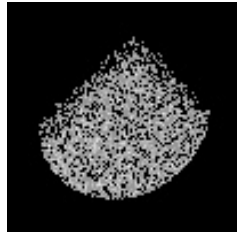


3 Point Sources

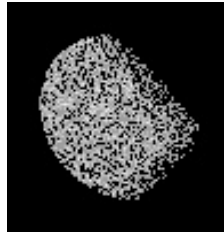
4.71 arcmin



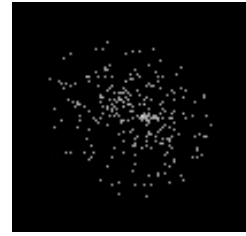
18.59 arcmin



18.69 arcmin



9.77 arcmin



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.11.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.67

A.2 Comments

The CCD bias map for chip 7 (S3) was incomplete because of data gaps in telemetry. The bias map was reconstructed using scaled data from a comparable bias map for another observation to fill the data gaps.

Details of the reconstruction are in the FITS header for that bias file.

An ACIS Threshold-Plane Anomaly occurred during this observation. The flight s/w is intended to delay 'start events' until after 'end bias dump'. For some unknown reason, it occasionally fails to do so, and if the overlap lasts for more than a minute or so, one or more FEPs experience a firmware latch-up that renders them useless until they are power cycled. The anomaly occurred for chip S2 only. No event data were recorded for this chip; the bright pixels on this chip are due to previously known hot pixels. The target and aim point were not affected by this anomaly.