

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1896 - L2 Version 001
Chandra X-Ray Center

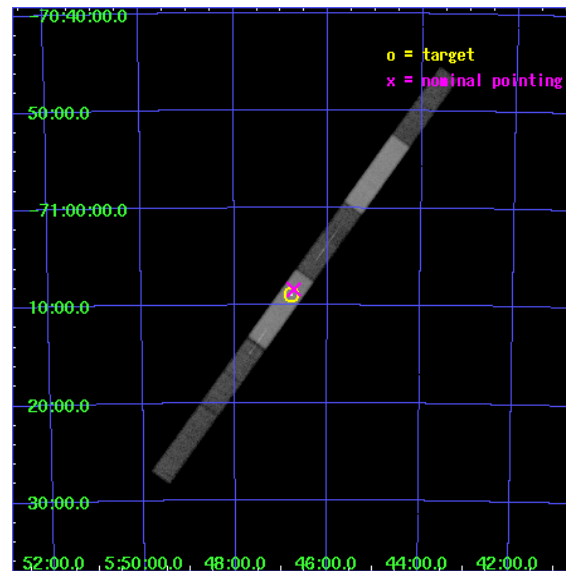
L2 Processing Date : Dec 19 2006

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1 Front

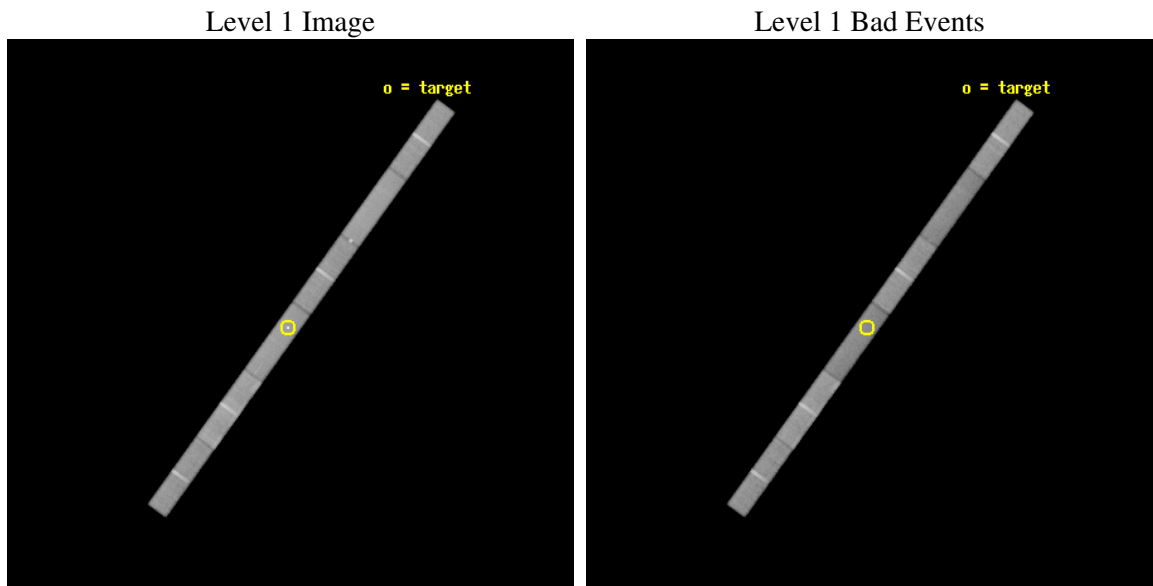
seq_num	300044
obs_id	1896
title	X-RAY SPECTROSCOPY OF THE BRIGHT SUPERSOFT SOURCES CAL 83 AND CAL 87
observer	Dr. Jochen Greiner
object	CAL 87
dtcycle	0
cycle	P
ra_targ	86.693833
dec_targ	-71.148333
ra_nom	86.680771689021
dec_nom	-71.139539814848
roll_nom	125.88633303765
revision	2
ontime	97764.0
livetime	93909.936217629
ontime4	97764.0
ontime5	97764.0
ontime6	97764.0
ontime7	97764.0
ontime8	97764.0
ontime9	97764.0
l2events	272489



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 4

Chip 5

Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-12-19T15:53:48
revision	2

sched_exp_time	97535.134000
ontime	97831.540613934
ontime4	97831.540613934
ontime5	97831.540613934
ontime6	97831.540613934
ontime7	97831.540613934
ontime8	97831.540613934
ontime9	97832.581653938
l1events	1366869

2.1.4 Events

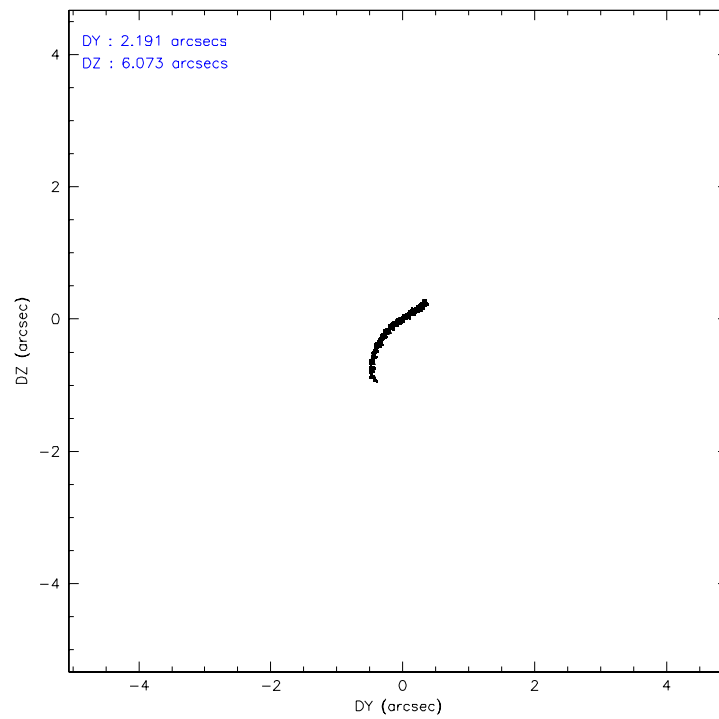
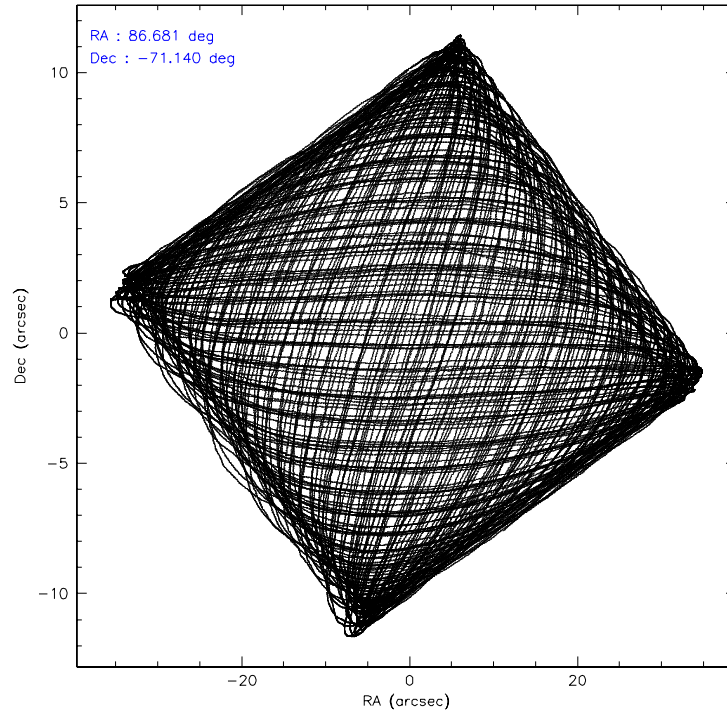
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	228854	239369	209276	224065	270717	194588
rejected events	205085	130303	186436	126787	221140	172404
rejected %	89%	54%	89%	56%	81%	88%

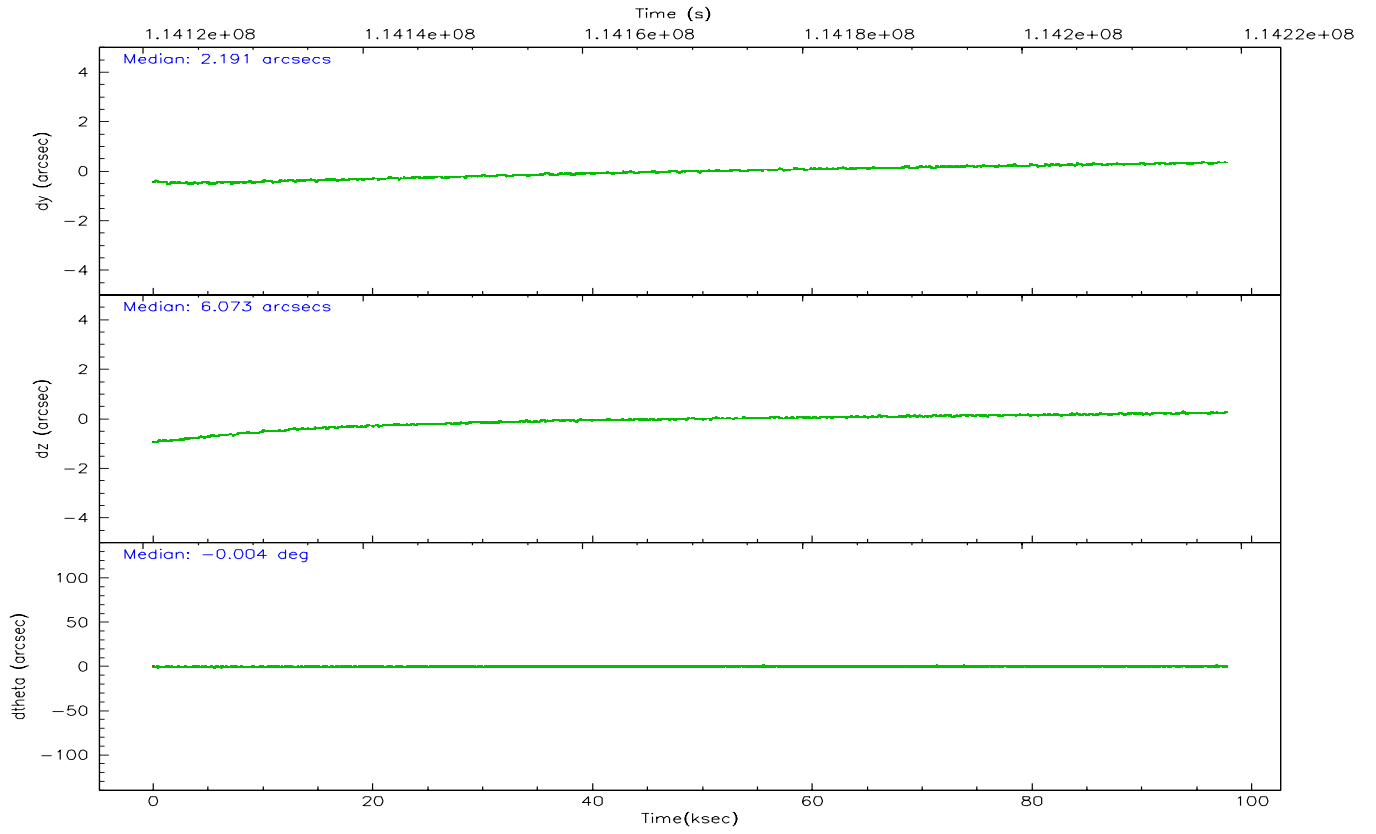
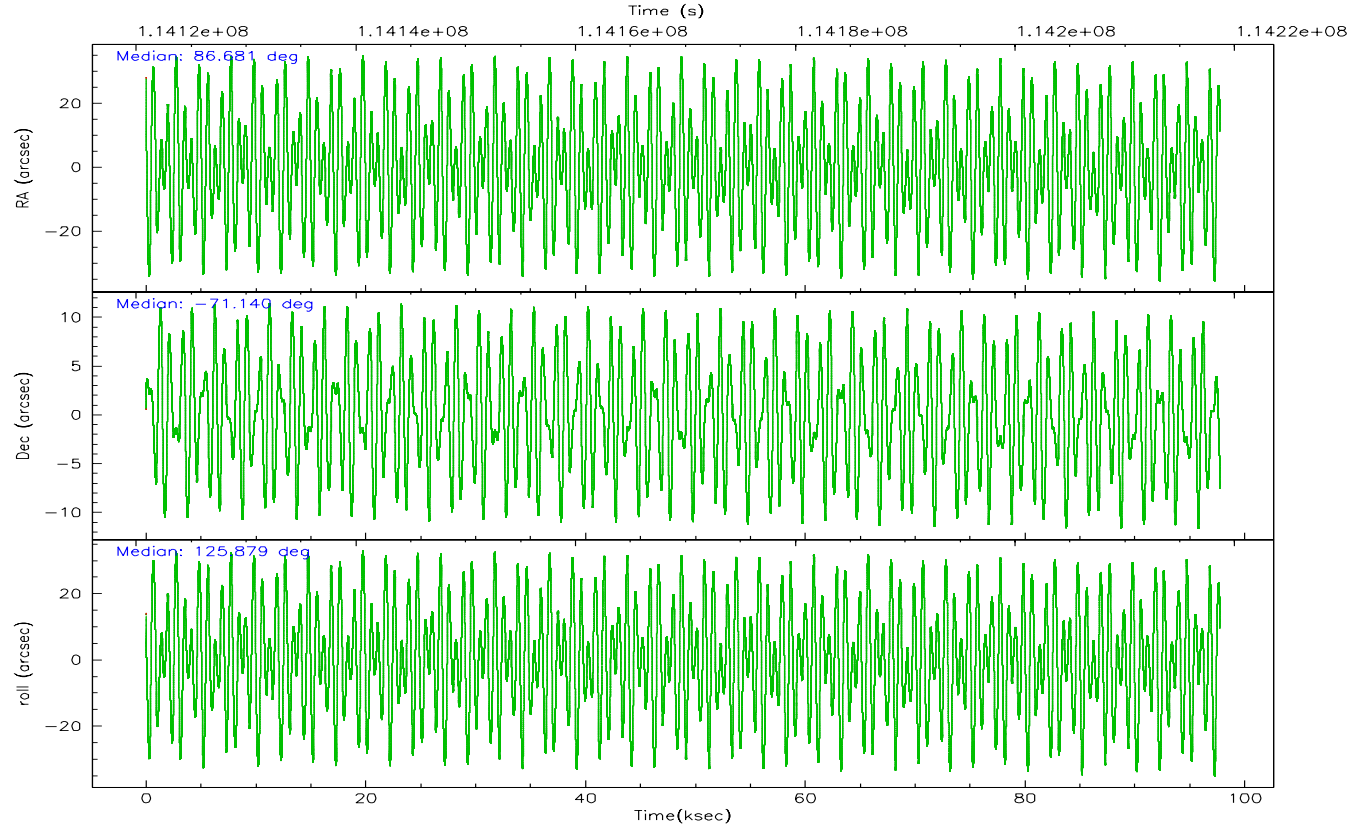
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	8670	8966	8600	9711	14063	7976
	3%	3%	4%	4%	5%	4%
grade 1 events	66	368	46	175	101	54
	0%	0%	0%	0%	0%	0%
grade 2 events	4746	30620	3938	21235	9571	3782
	2%	12%	1%	9%	3%	1%
grade 3 events	3329	5419	3377	8924	6464	3389
	1%	2%	1%	3%	2%	1%
grade 4 events	3223	5187	3231	8772	6086	3173
	1%	2%	1%	3%	2%	1%
grade 5 events	5792	14054	6629	17310	8498	6651
	2%	5%	3%	7%	3%	3%
grade 6 events	3832	58975	3718	48687	13517	3879
	1%	24%	1%	21%	4%	1%
grade 7 events	199196	115780	179737	109251	212417	165684
	87%	48%	85%	48%	78%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	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	86.758187	86.68077168902126	Subarray requested	CUSTOM	1/4
Pointing Dec	-71.150395	-71.13953981484782	Subarray start row	49	49
Pointing Roll	125.802966	125.8863330376456	Subarray row count	256	256
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	1
SIM translation stage pos (mm)	-182.132523	-182.1370004450064			
SIM translation stage offset (mm)	-8	-7.995522138001405			
Observation start time	114121134.184000	114120152.79273			
Observation start date	2001-08-13T20:17:50	2001-08-13T20:02:32			
Observation end time	114218669.184000	114218983.29662			
Observation end date	2001-08-14T23:23:25	2001-08-14T23:29:43			
Read mode	TIMED	TIMED			

2.3 Aspect



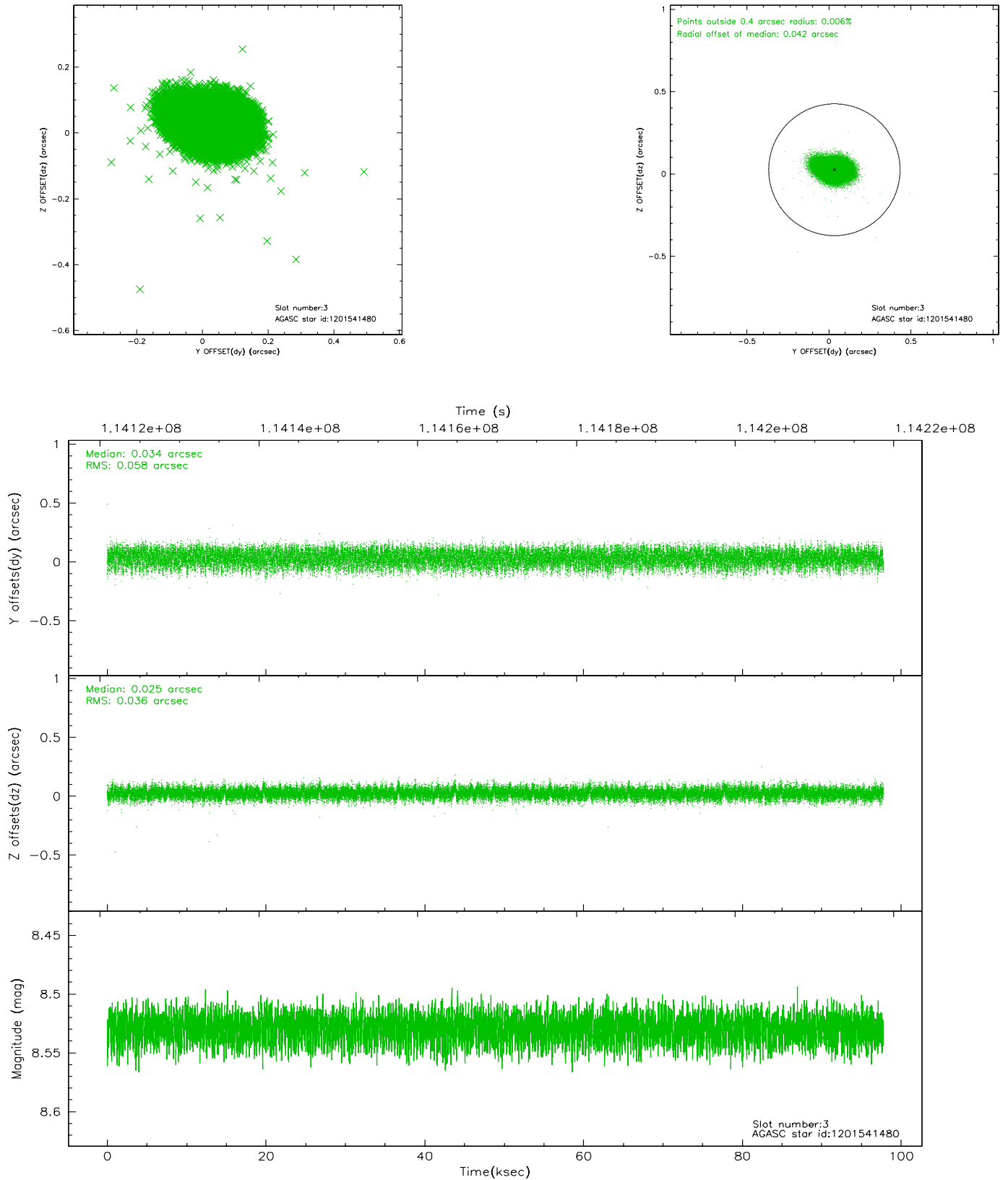


Slot Statistics

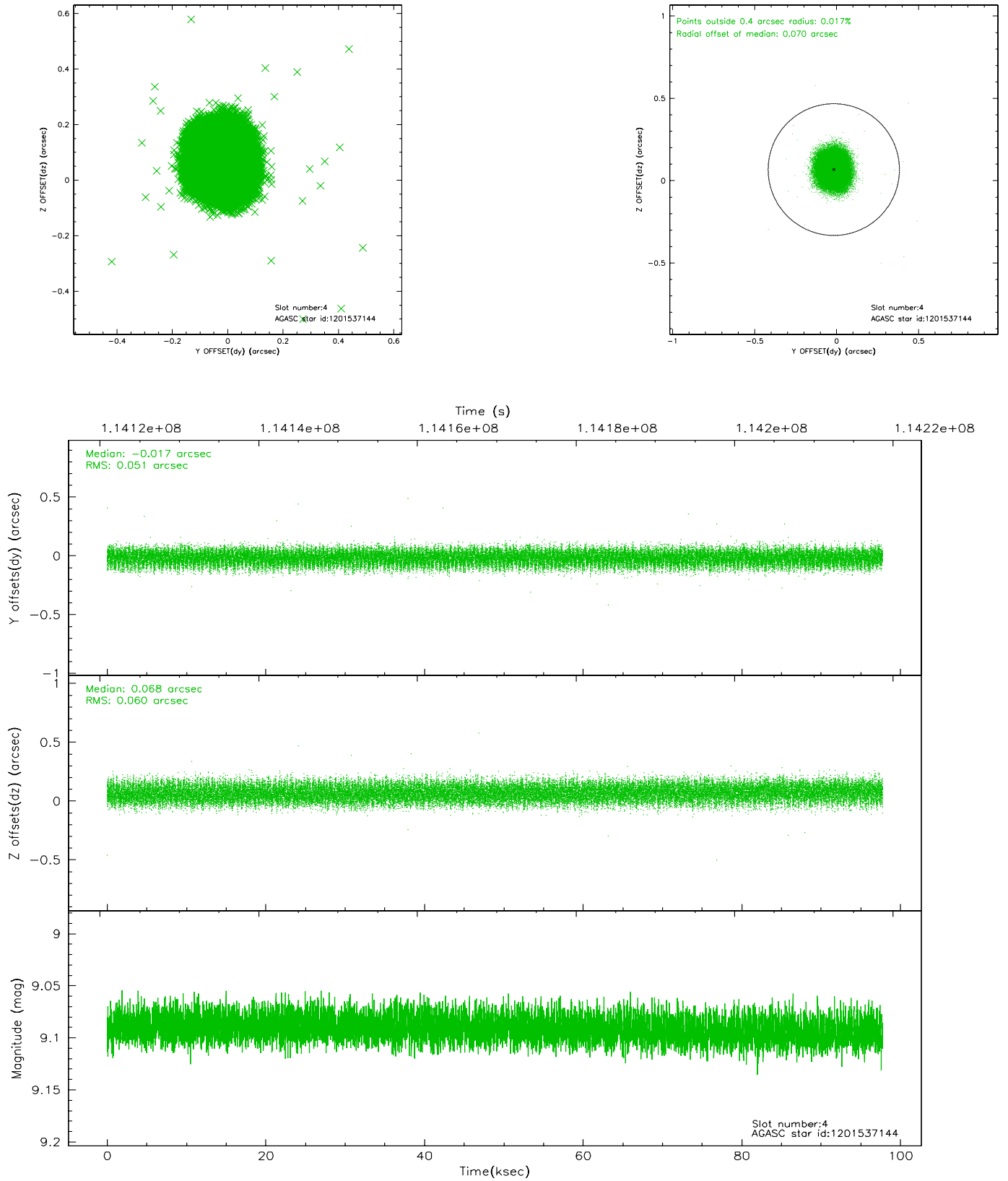
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	23846	-0.040	-0.065	0.014	0.027	0.000000	0.000000	-754.24	-1891.90
1	FID	ACIS-S-4	7.18	23845	-0.001	0.036	0.007	0.015	0.000000	0.000000	2159.12	16.74
2	FID	ACIS-S-5	7.22	23844	0.009	0.036	0.013	0.024	0.000000	0.000000	-1807.14	10.33
3	GUIDE	1201541480	8.53	47686	0.034	0.025	0.072	0.118	87.080483	-70.345903	2120.67	-2009.69
4	GUIDE	1201537144	9.09	47673	-0.017	0.068	0.085	0.131	88.780878	-70.947923	-830.36	-2330.50
5	GUIDE	1201543584	9.02	47679	0.033	-0.020	0.057	0.093	85.968298	-71.060698	797.45	563.40
6	GUIDE	1202072464	9.45	47659	0.046	0.031	0.106	0.167	86.698095	-71.603515	-1282.55	1009.76
7	GUIDE	1202072504	9.11	47670	-0.095	-0.107	0.091	0.143	84.613647	-71.282090	1029.15	2312.24

2.4 Star Slots

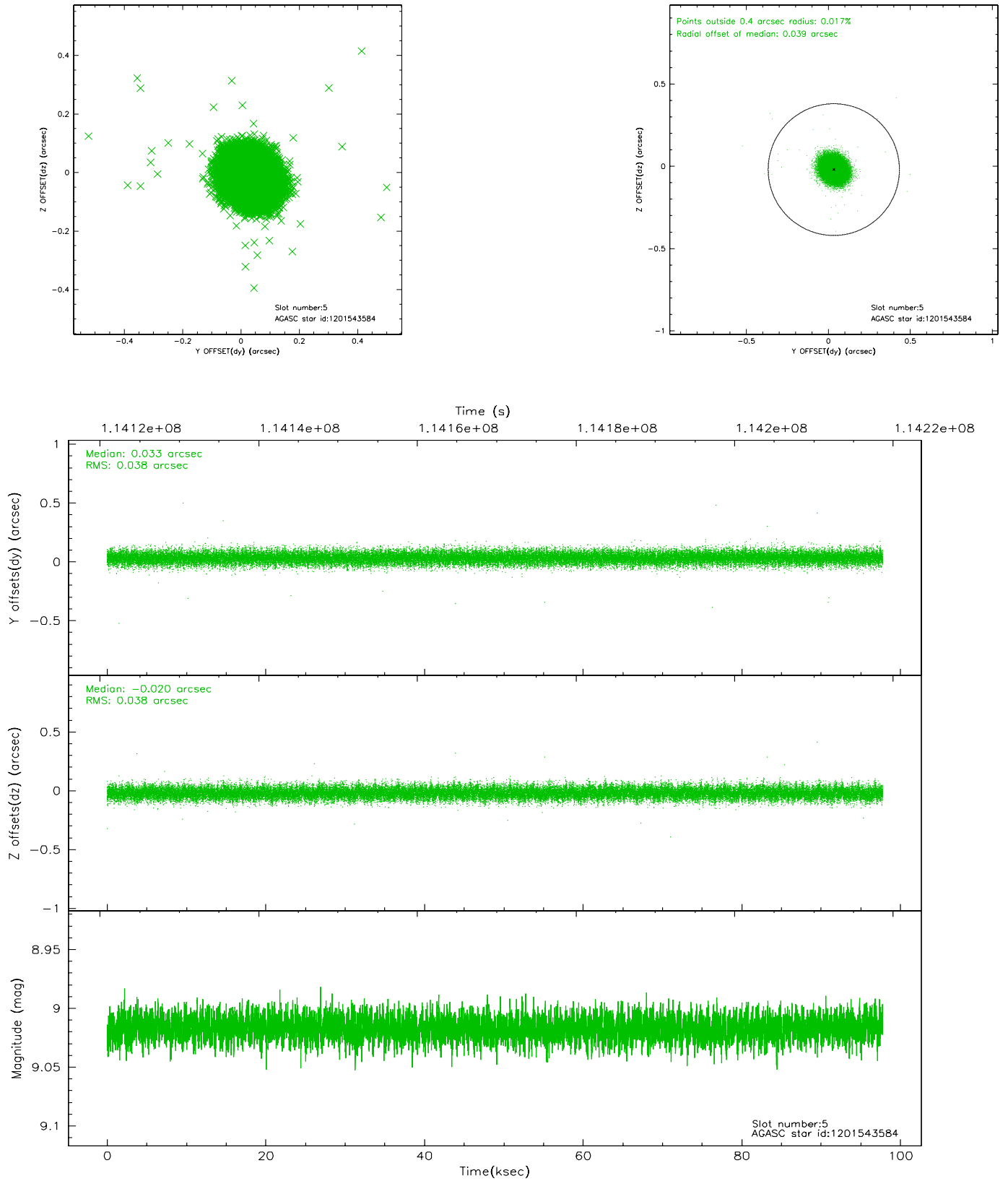
2.4.1 Slot 3



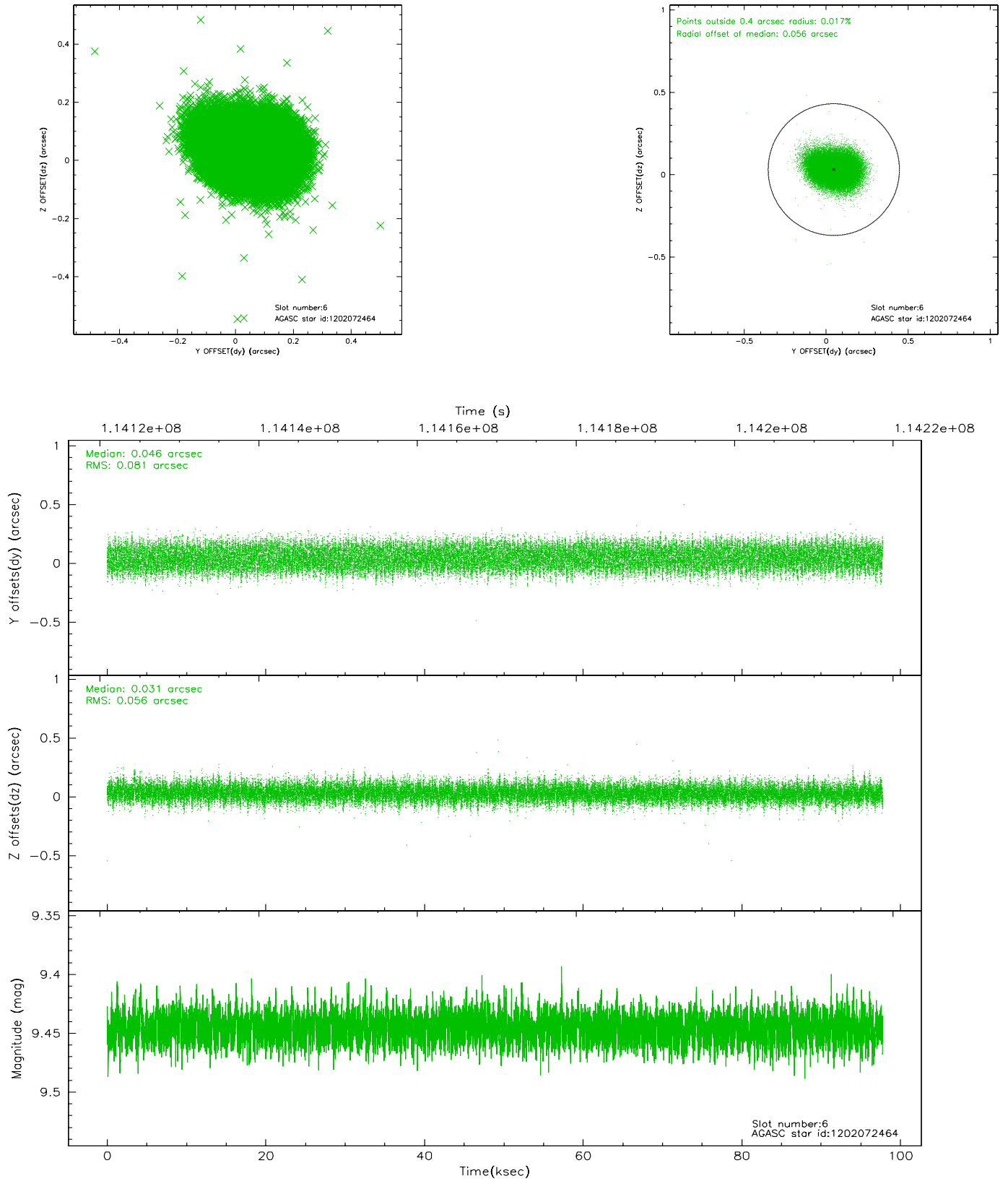
2.4.2 Slot 4



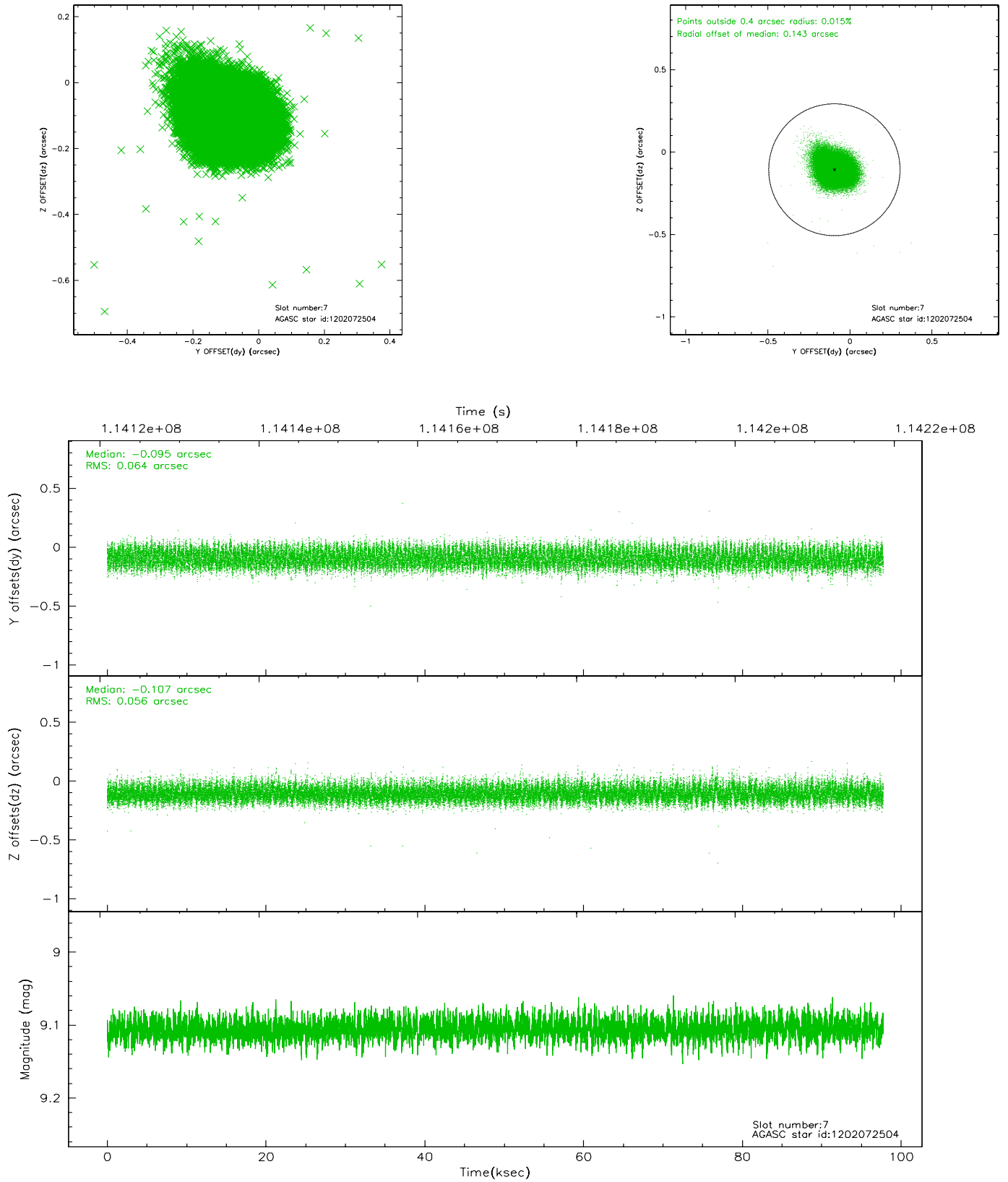
2.4.3 Slot 5



2.4.4 Slot 6

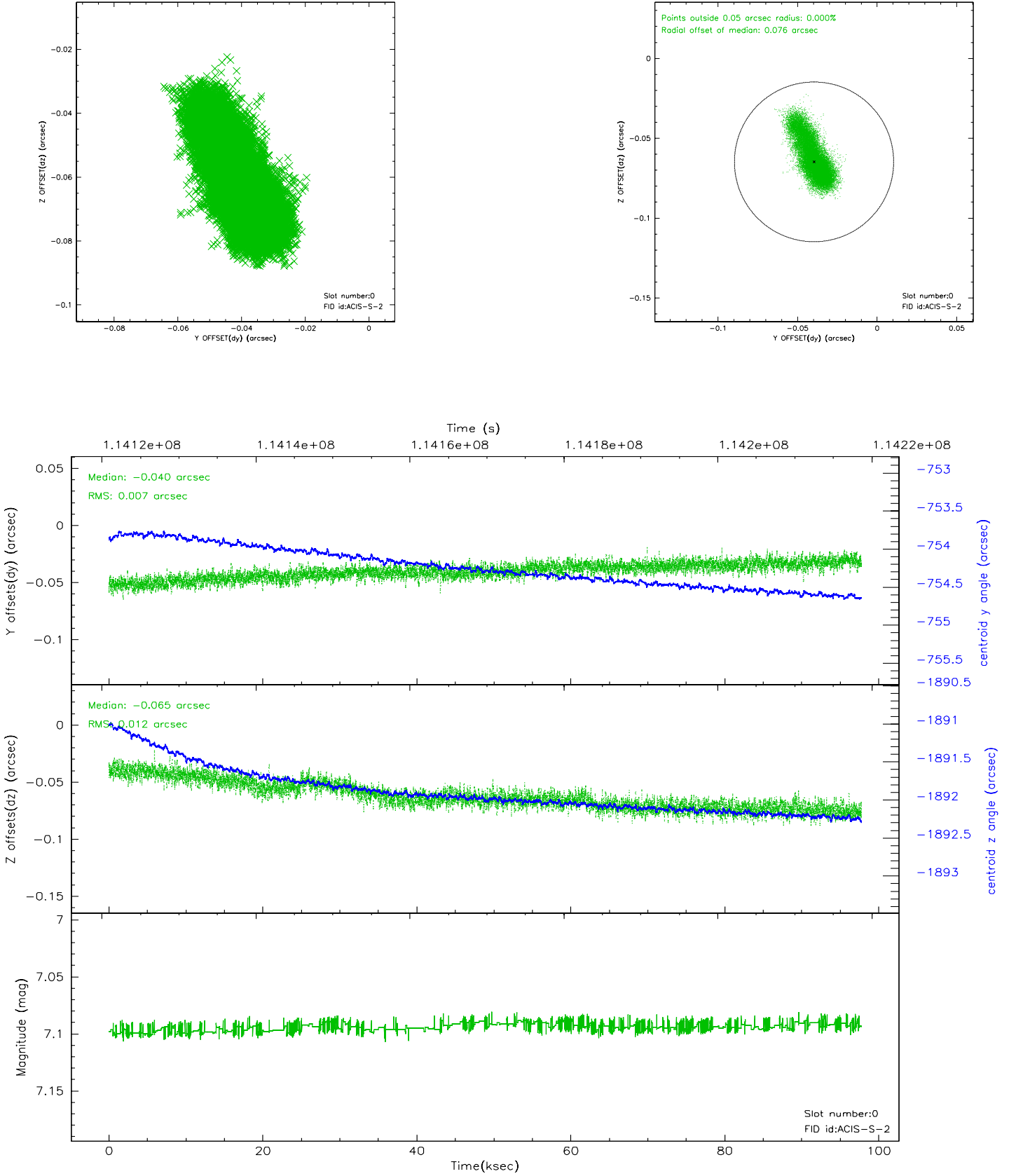


2.4.5 Slot 7

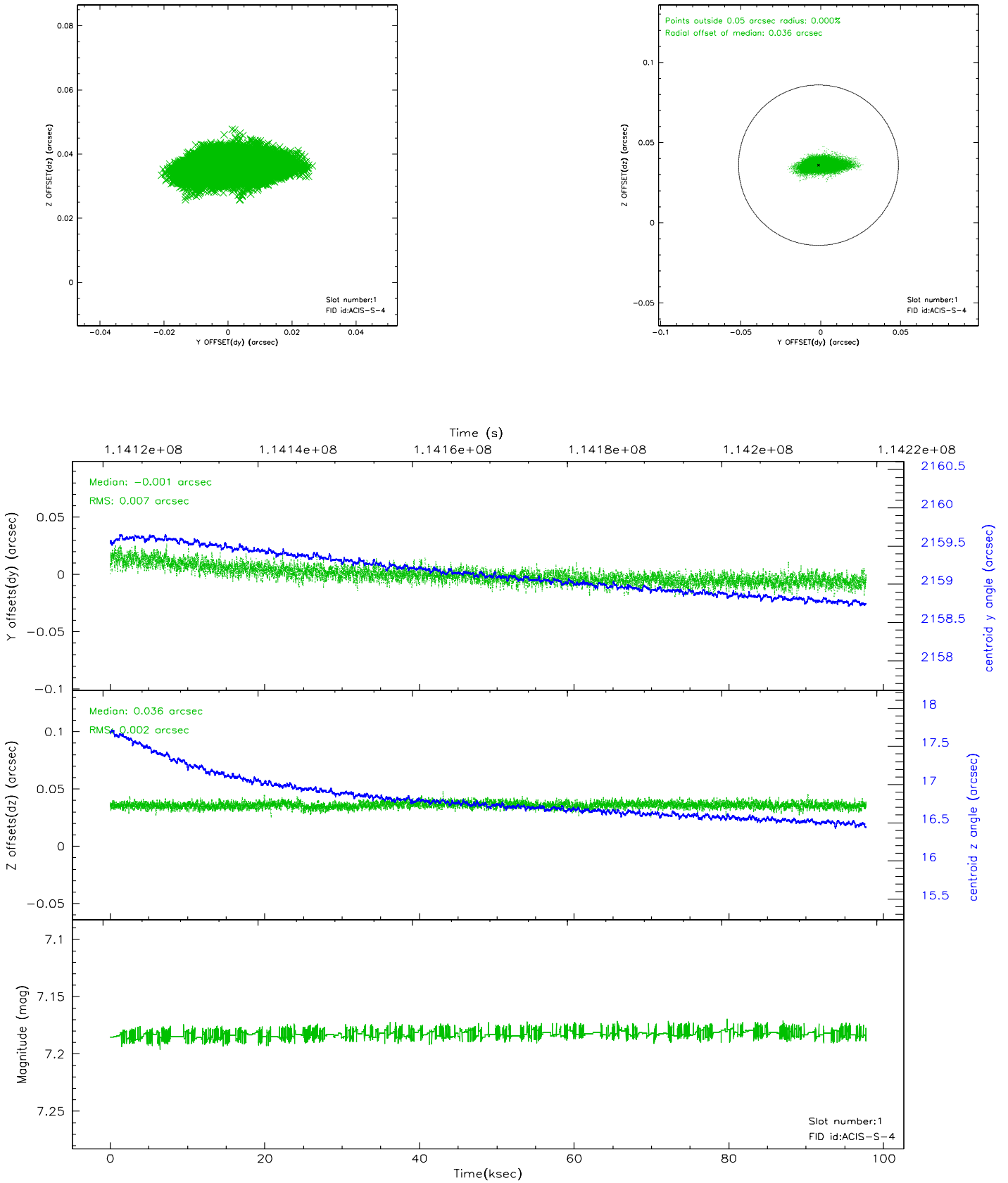


2.5 FID Slots

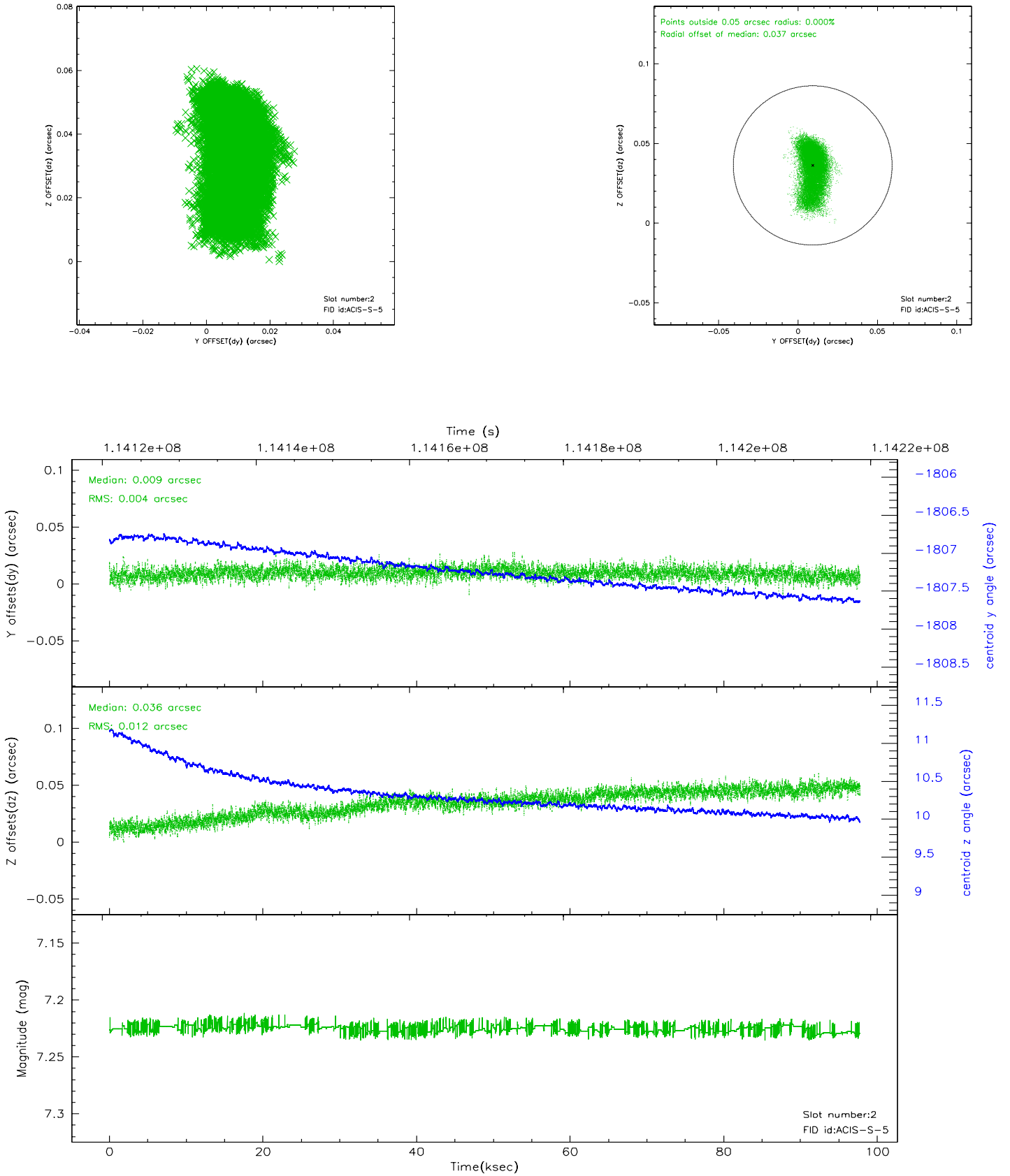
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

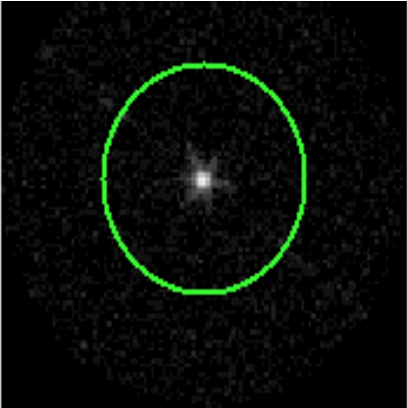


3 Gratings

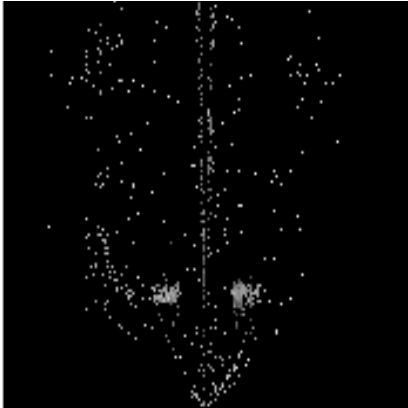
3.1 LETG Arm



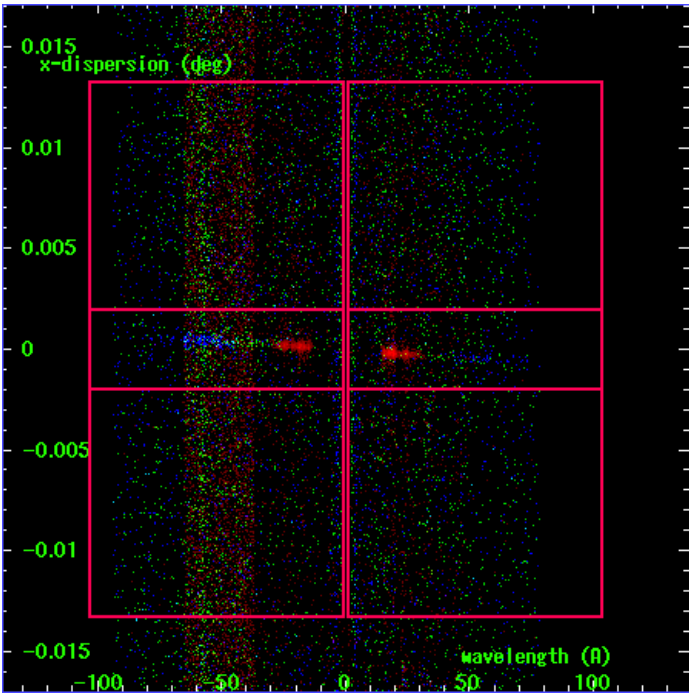
LETG Order Sort 123



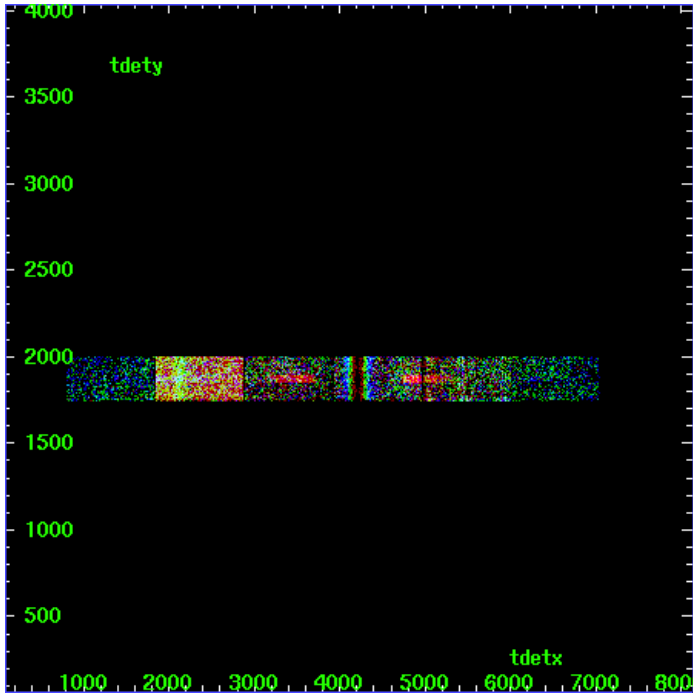
LETG Zero Order



LETG Order Sort ALL

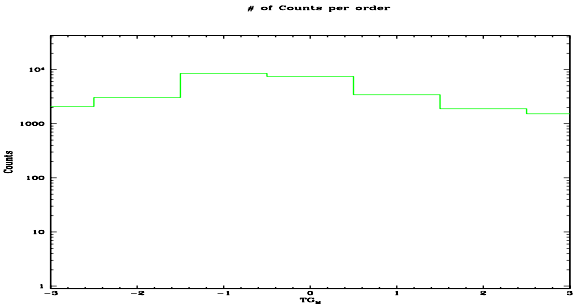


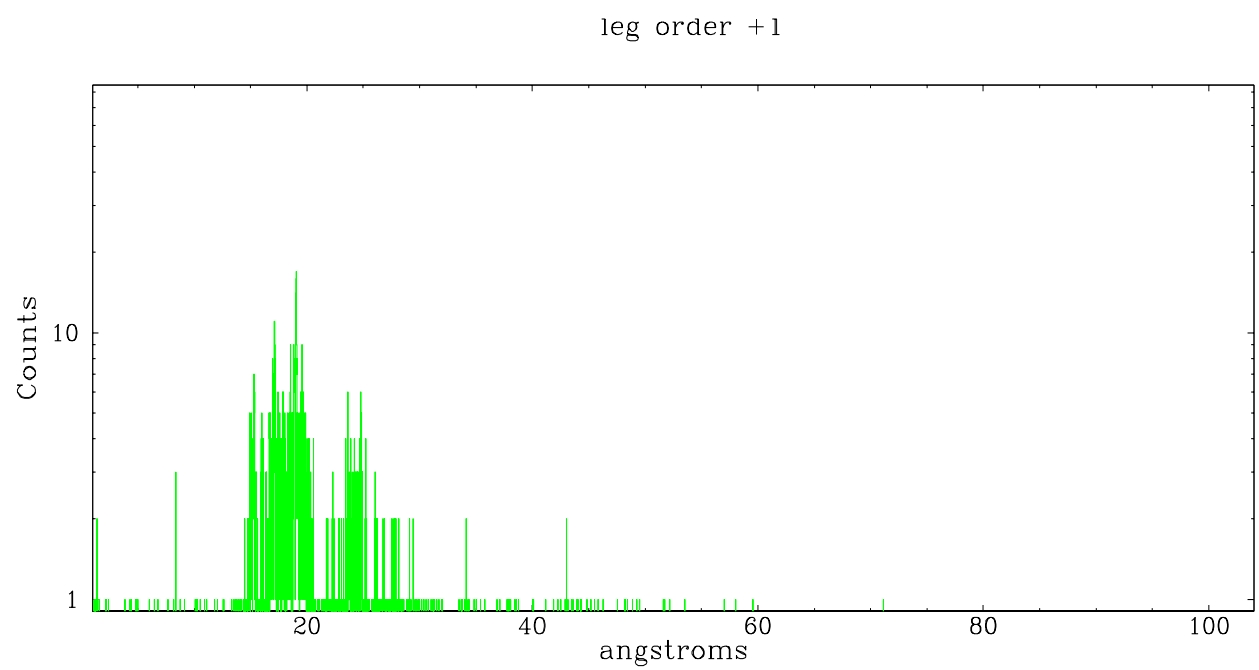
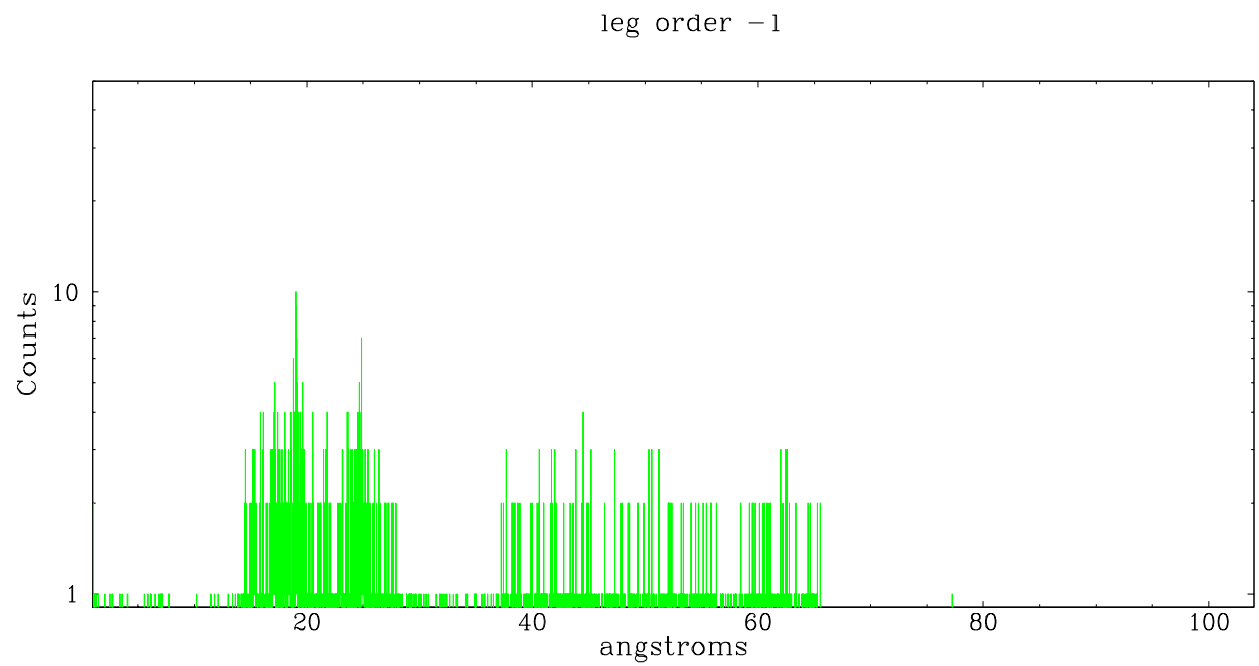
Spot Image LETG



Full Detector LETG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	2072	3034	8457	7474	3435	1893	1527





A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2006.12.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	97.764

A.2 Comments

Pointing OK; automatic warning since the 'Planned Pointing RA' is 86.758187, but the actual pointing of 86.68077 is within 1 arcmin of the obcat RA of 86.693833; object is clearly detected.