

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 4679 - L2 Version _e1
Chandra X-Ray Center

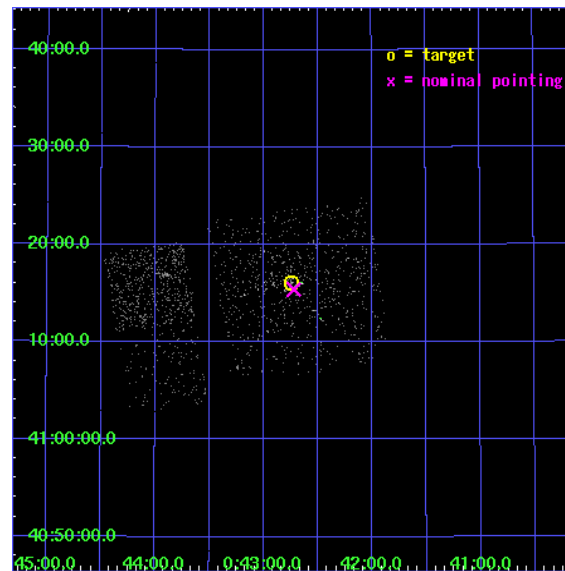
L2 Processing Date : Jun 26 2006

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1 Front

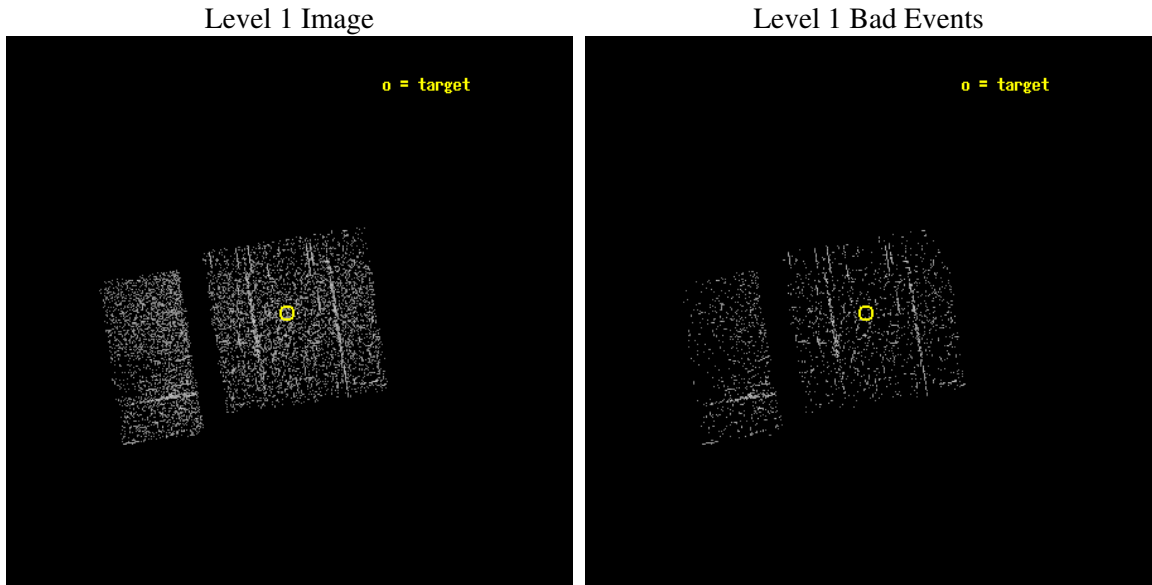
seq_num	600334
obs_id	4679
title	Searching for Black Hole X-ray Nova in M31
observer	Dr. Stephen Murray
object	M31-Center
dtcycle	0
cycle	P
ra_targ	10.685
dec_targ	41.268972
ra_nom	10.680176706435
dec_nom	41.256834385273
roll_nom	261.37876809292
revision	2
ontime	903.01605761051
livetime	142.15650963601
ontime0	903.01605761051
ontime1	903.01605761051
ontime2	903.01605761051
ontime3	903.01605761051
ontime6	903.06447815895
ontime7	903.02343815565
l2events	1745



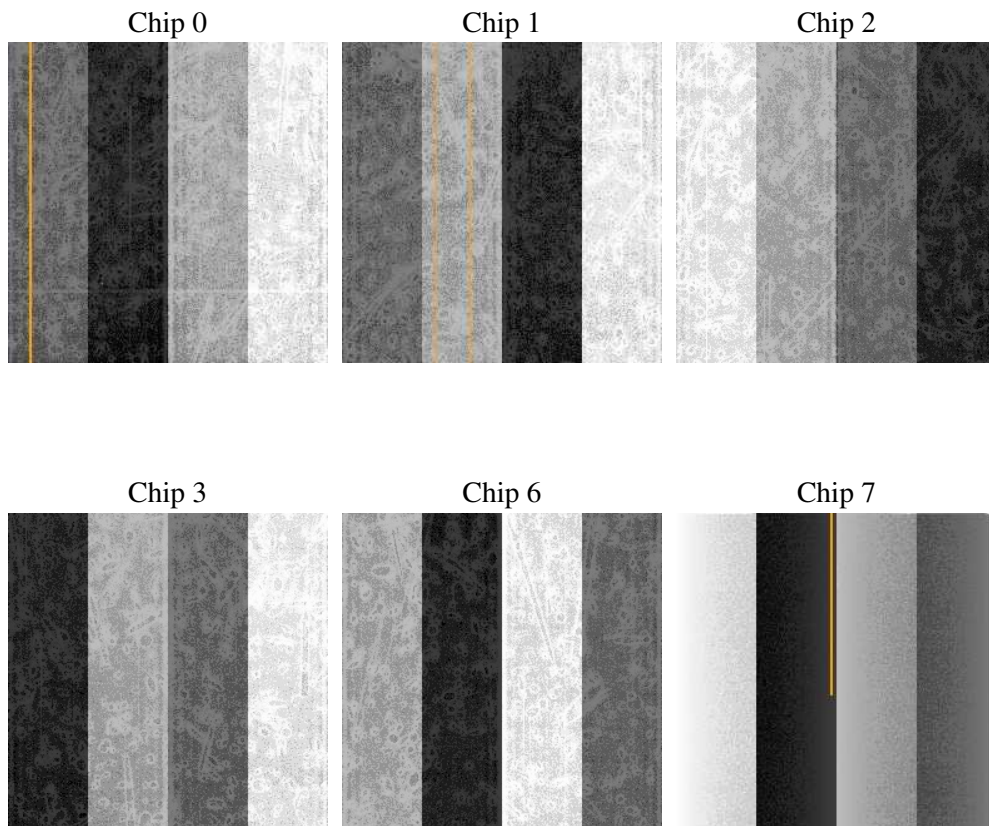
2 OBI Primary

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	2006-06-26T22:27:56
revision	2

sched_exp_time	4891.000000
ontime	910.9150403738
ontime0	910.9150403738
ontime1	910.9150403738
ontime2	910.9150403738
ontime3	910.9150403738
ontime6	910.9150403738
ontime7	910.9150403738
l1events	13395

2.1.4 Events

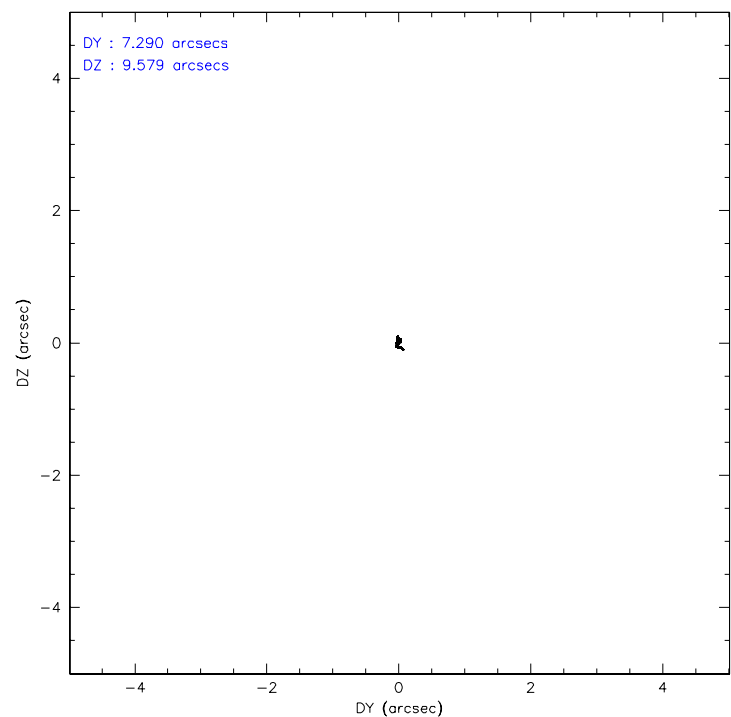
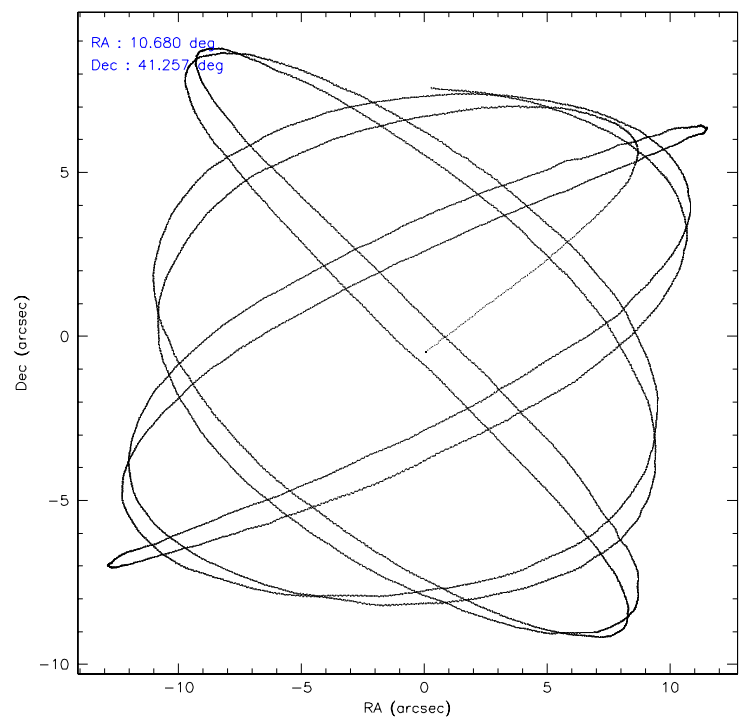
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	2180	2187	2197	2459	2140	2232
rejected events	1919	1855	1982	2048	1986	1621
rejected %	88%	84%	90%	83%	92%	72%

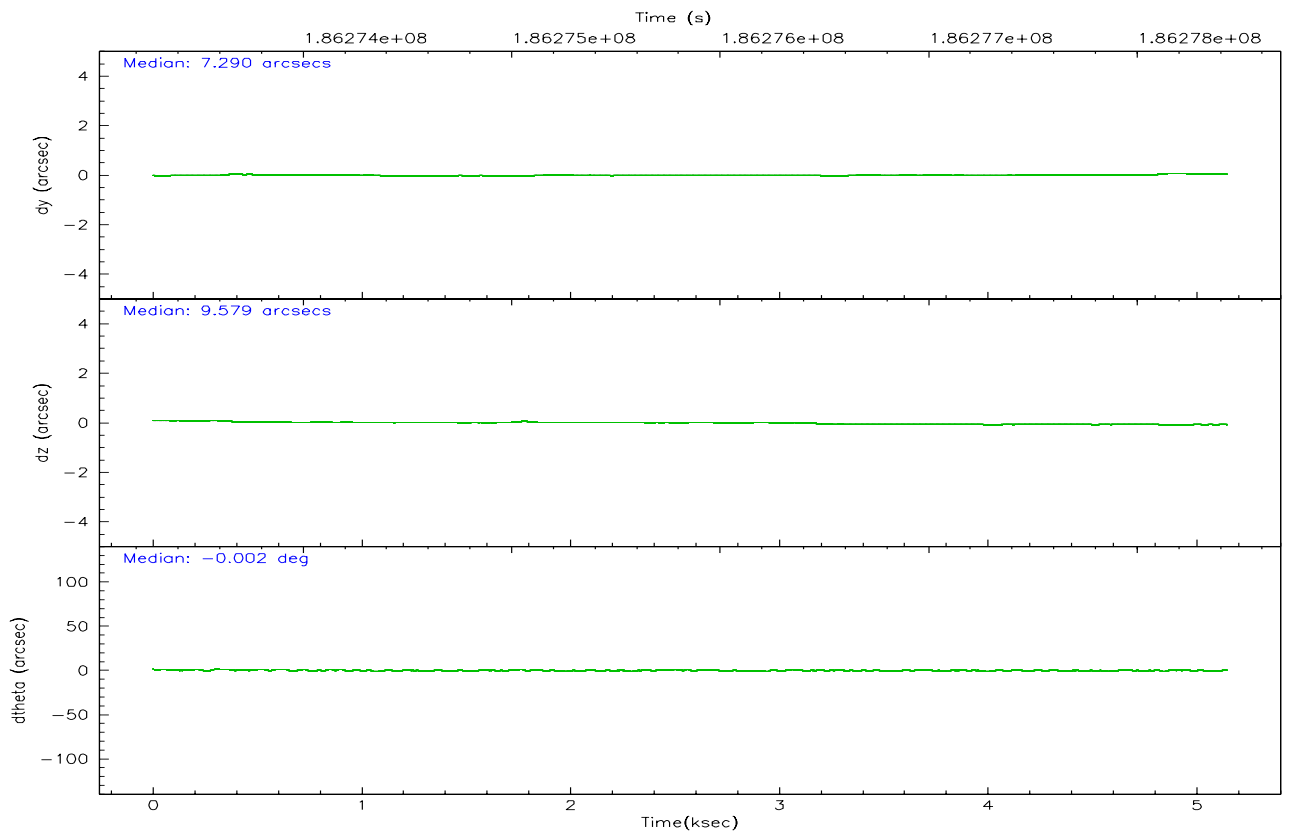
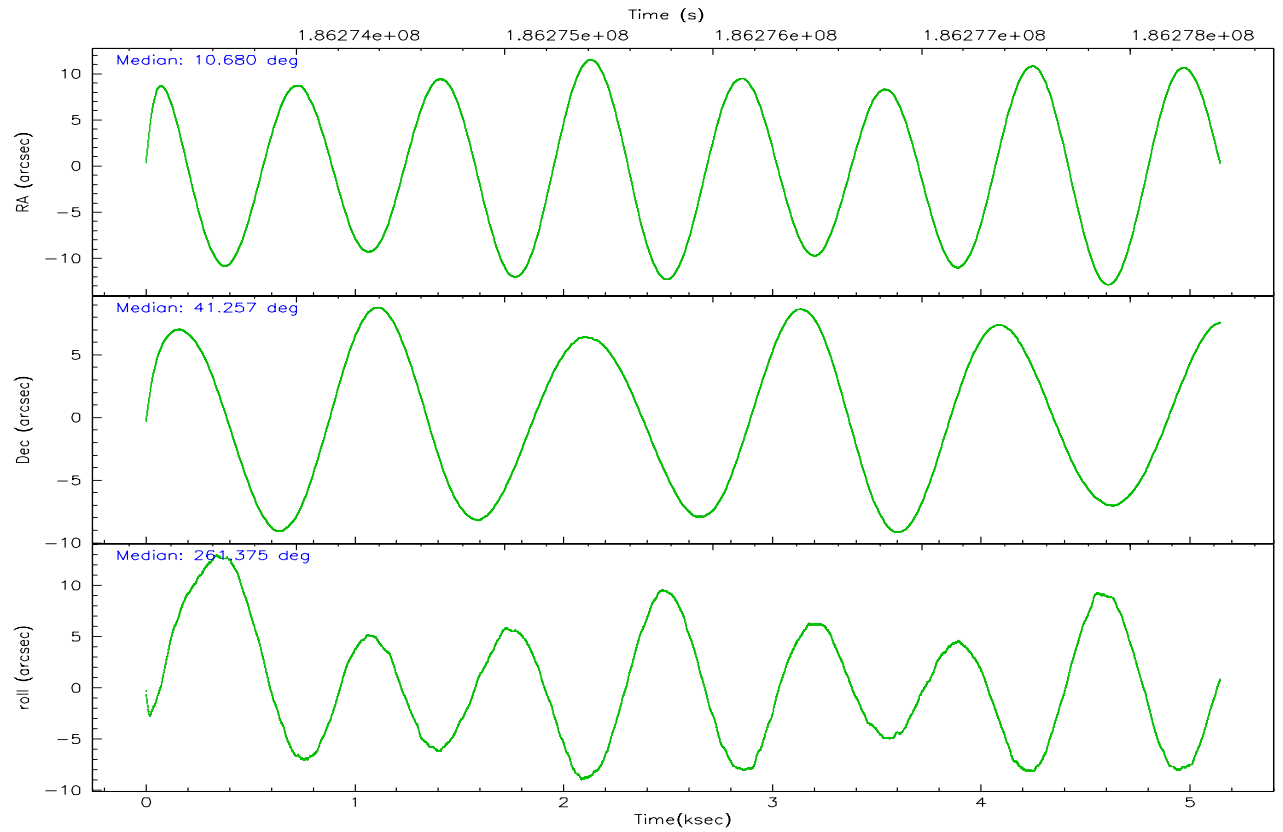
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	115	163	111	244	45	60
	5%	7%	5%	9%	2%	2%
grade 1 events	0	1	3	1	0	0
	0%	0%	0%	0%	0%	0%
grade 2 events	68	67	43	75	44	144
	3%	3%	1%	3%	2%	6%
grade 3 events	30	34	20	35	15	44
	1%	1%	0%	1%	0%	1%
grade 4 events	25	31	17	25	21	50
	1%	1%	0%	1%	0%	2%
grade 5 events	78	65	64	70	73	161
	3%	2%	2%	2%	3%	7%
grade 6 events	28	47	29	37	30	320
	1%	2%	1%	1%	1%	14%
grade 7 events	1836	1779	1910	1972	1912	1453
	84%	81%	86%	80%	89%	65%

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	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	10.666649	10.68017670643488	Alternating exposures requested	Y	Y
Pointing Dec	41.282242	41.25683438527318	Primary exposure time	0.600000	0.6
Pointing Roll	261.179018	261.3787680929227	Secondary exposure time	3.200000	3.2
Window start time	186019264.184000	186019264.184000	Duty cycle	5	5
Window stop time	186624064.184000	186624064.184000			
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	186273534.184000	186272530.2914			
Observation start date	2003-11-26T22:37:50	2003-11-26T22:22:10			
Observation end time	186278425.184000	186279453.1417			
Observation end date	2003-11-26T23:59:21	2003-11-27T00:17:33			
Read mode	TIMED	TIMED			

2.3 Aspect



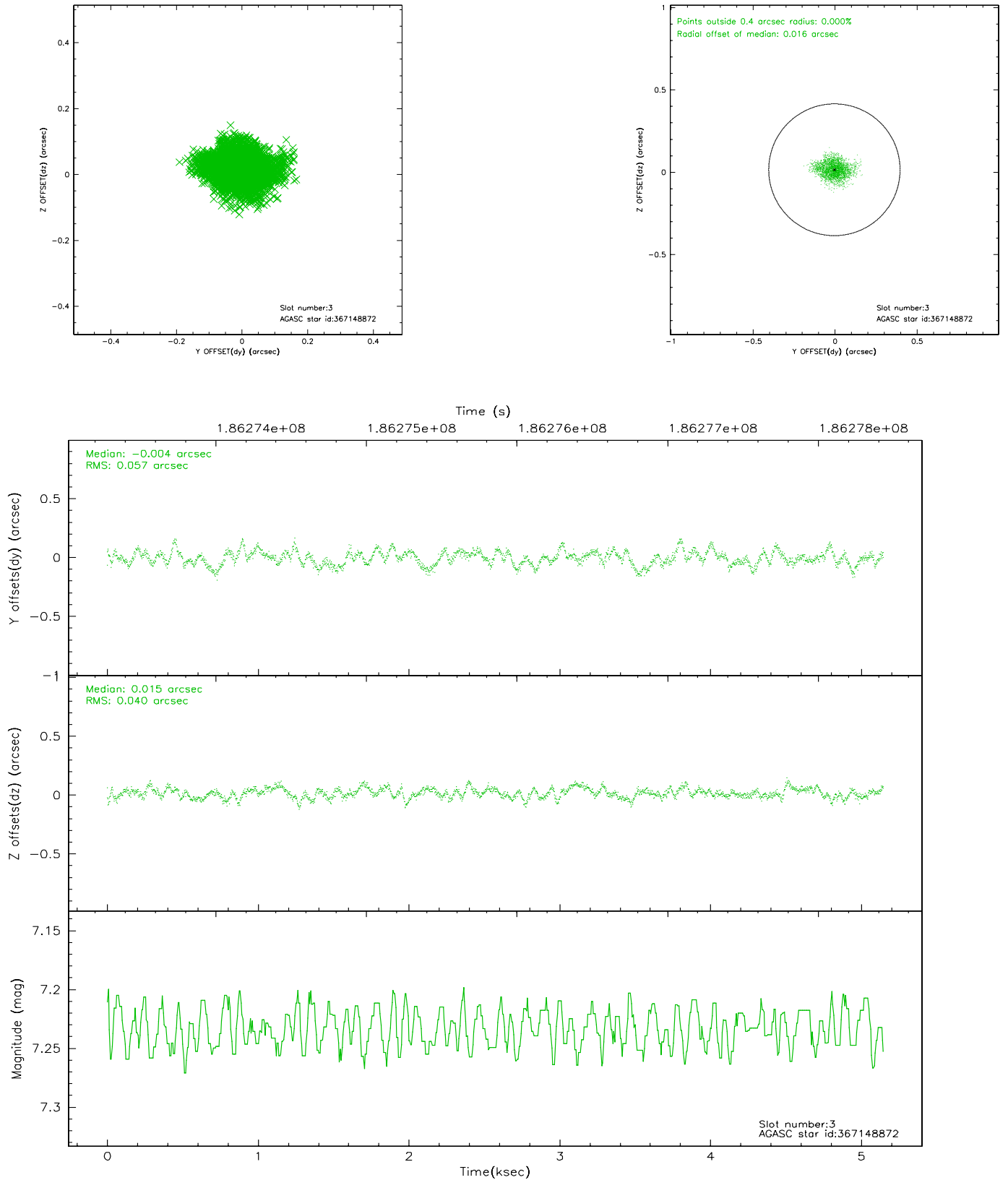


Slot Statistics

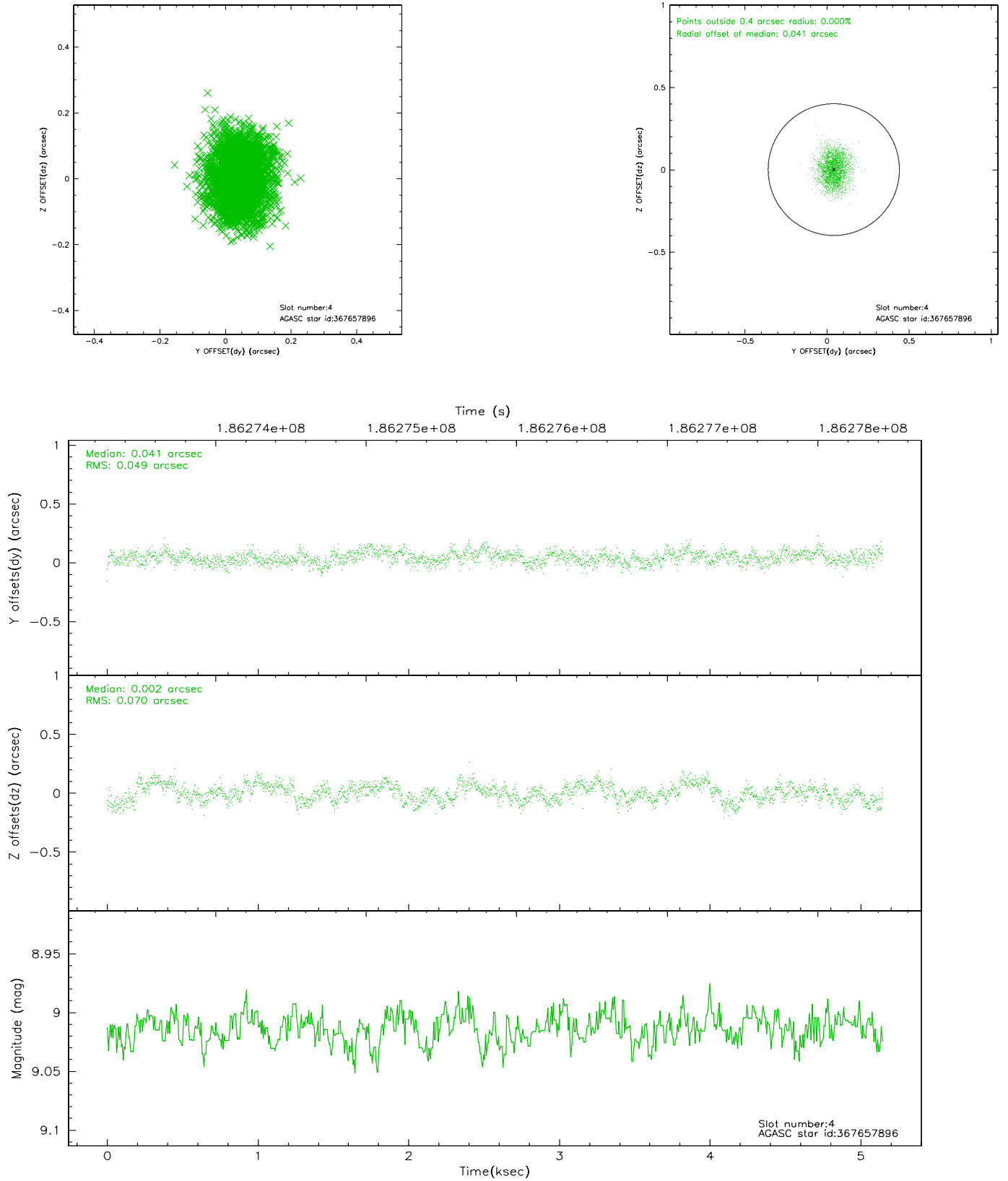
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	1256	-0.027	0.067	0.006	0.011	0.000000	0.000000	932.36	-832.95
1	FID	ACIS-I-5	7.23	1256	-0.109	0.016	0.006	0.010	0.000000	0.000000	-1815.18	1063.89
2	FID	ACIS-I-6	7.26	1256	0.045	-0.012	0.006	0.011	0.000000	0.000000	396.69	1709.71
3	GUIDE	367148872	7.23	2512	-0.004	0.015	0.075	0.121	10.505940	40.688258	2180.62	-105.60
4	GUIDE	367657896	9.01	2511	0.041	0.002	0.093	0.145	11.197765	41.313576	-334.77	1401.06
5	GUIDE	367658664	9.63	2511	0.086	-0.040	0.188	0.267	10.374070	41.369746	-190.93	-829.15
6	GUIDE	367663272	9.29	2511	-0.123	0.086	0.093	0.148	10.656279	41.699429	-1479.38	-258.53
7	GUIDE	367674552	8.85	2511	-0.014	-0.067	0.075	0.118	11.016238	41.570845	-1173.13	770.57

2.4 Star Slots

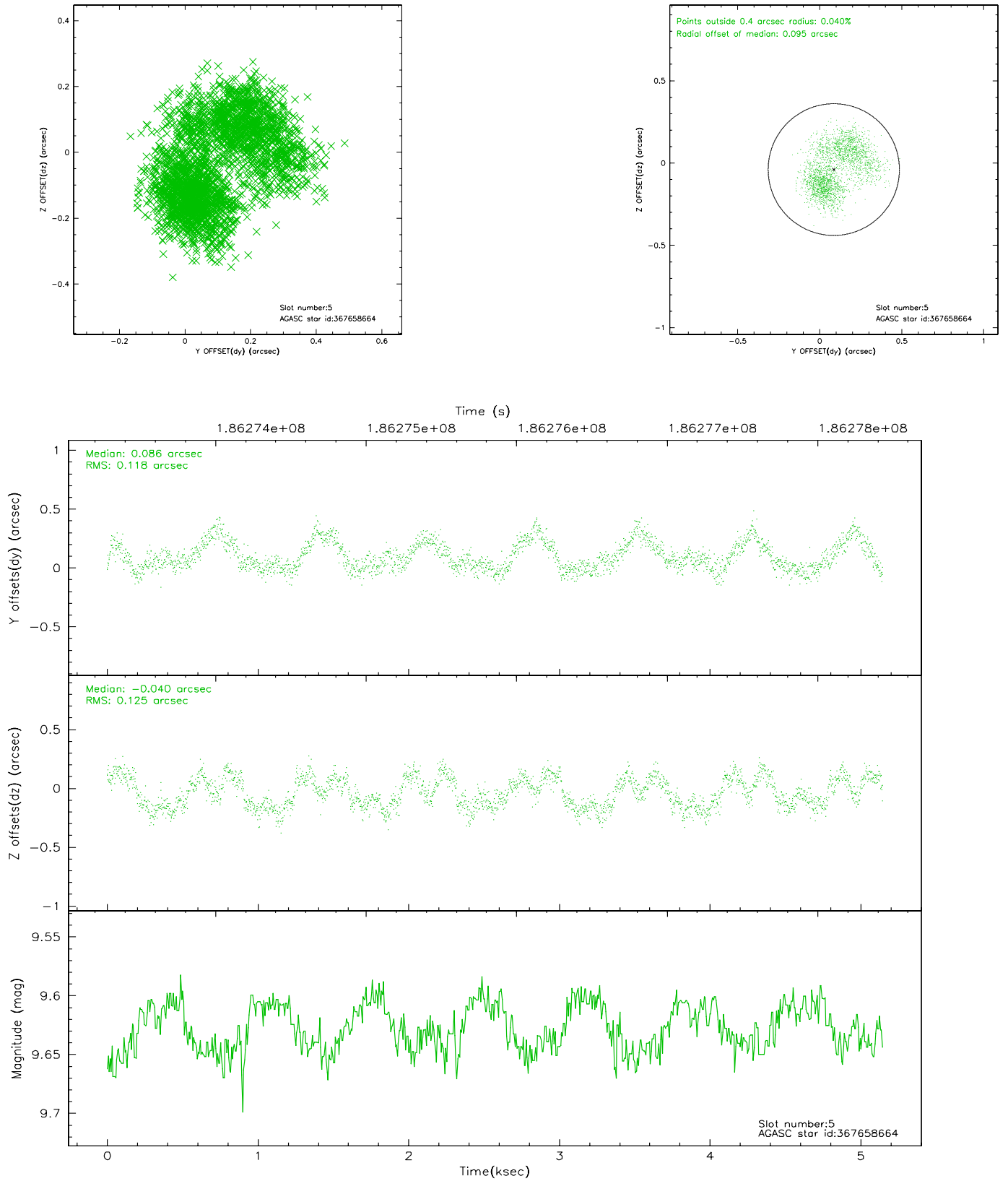
2.4.1 Slot 3



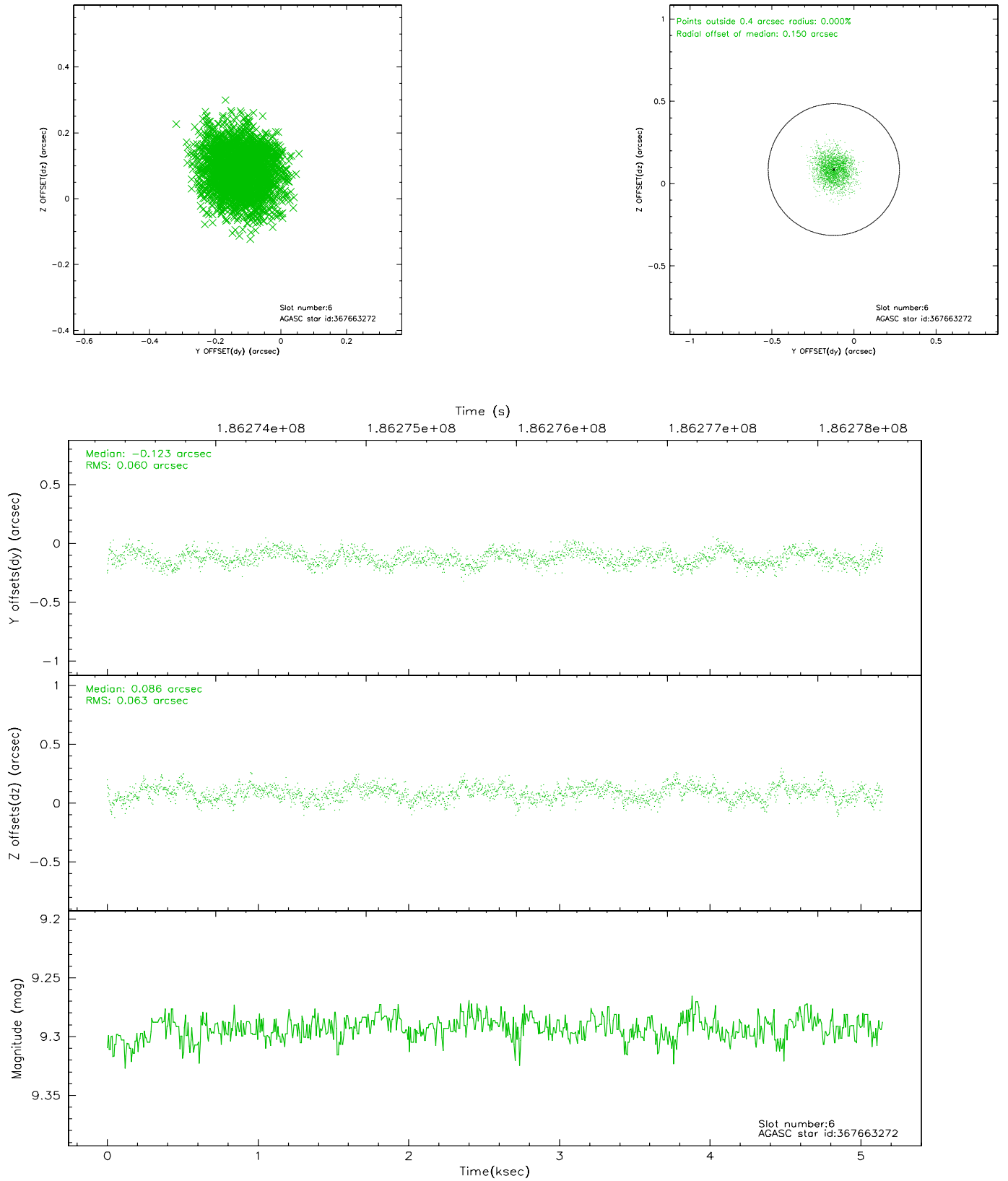
2.4.2 Slot 4



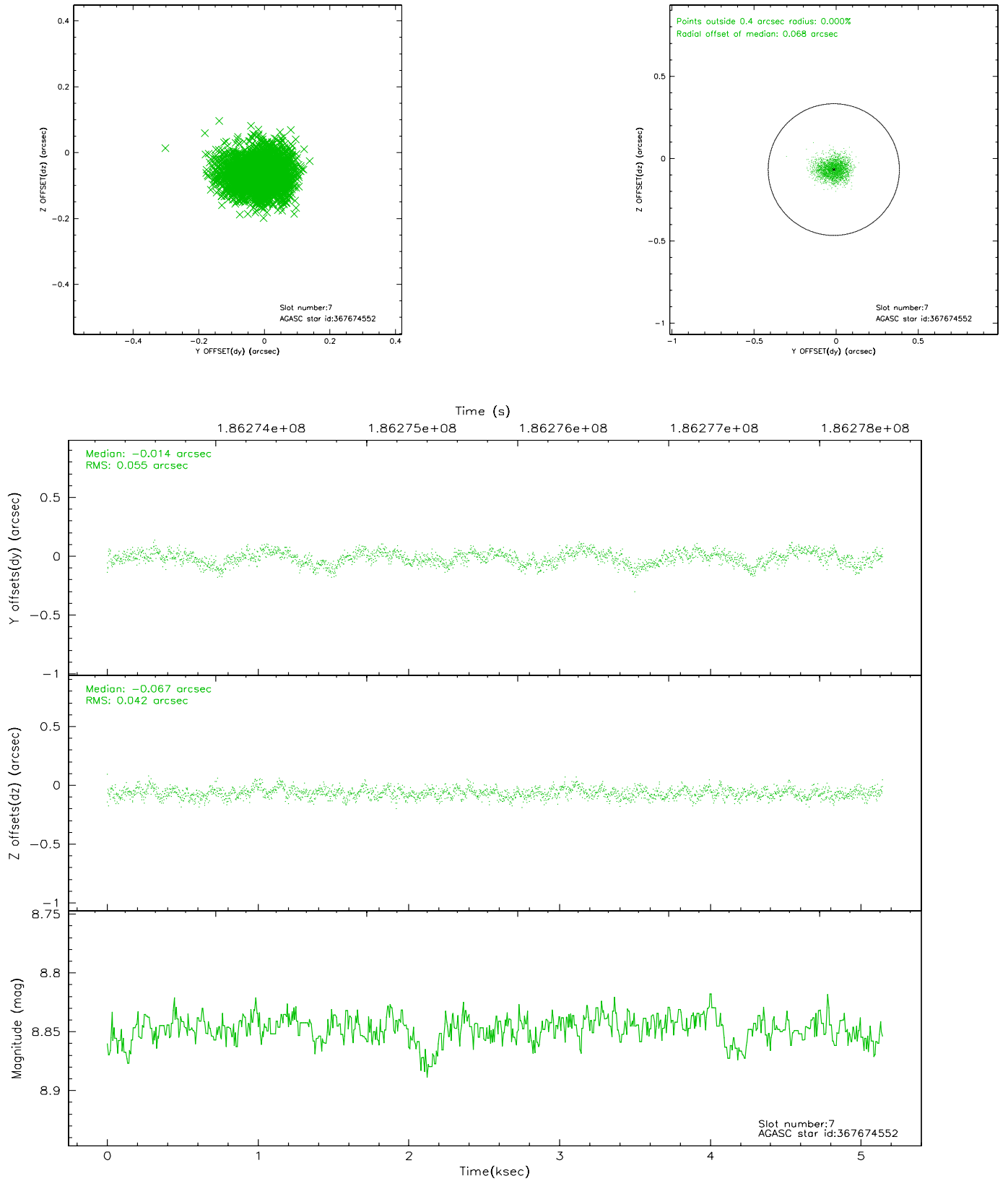
2.4.3 Slot 5



2.4.4 Slot 6

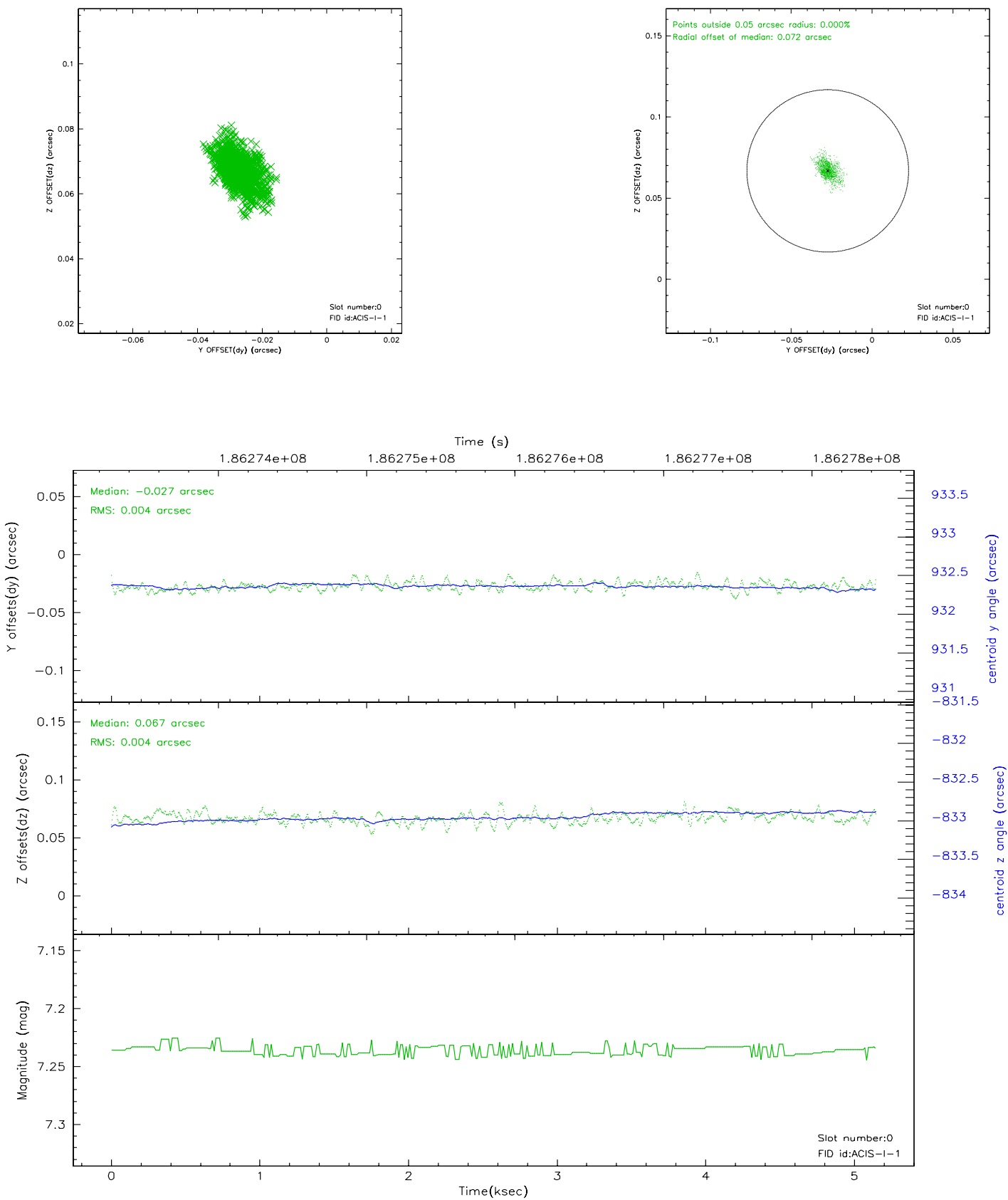


2.4.5 Slot 7

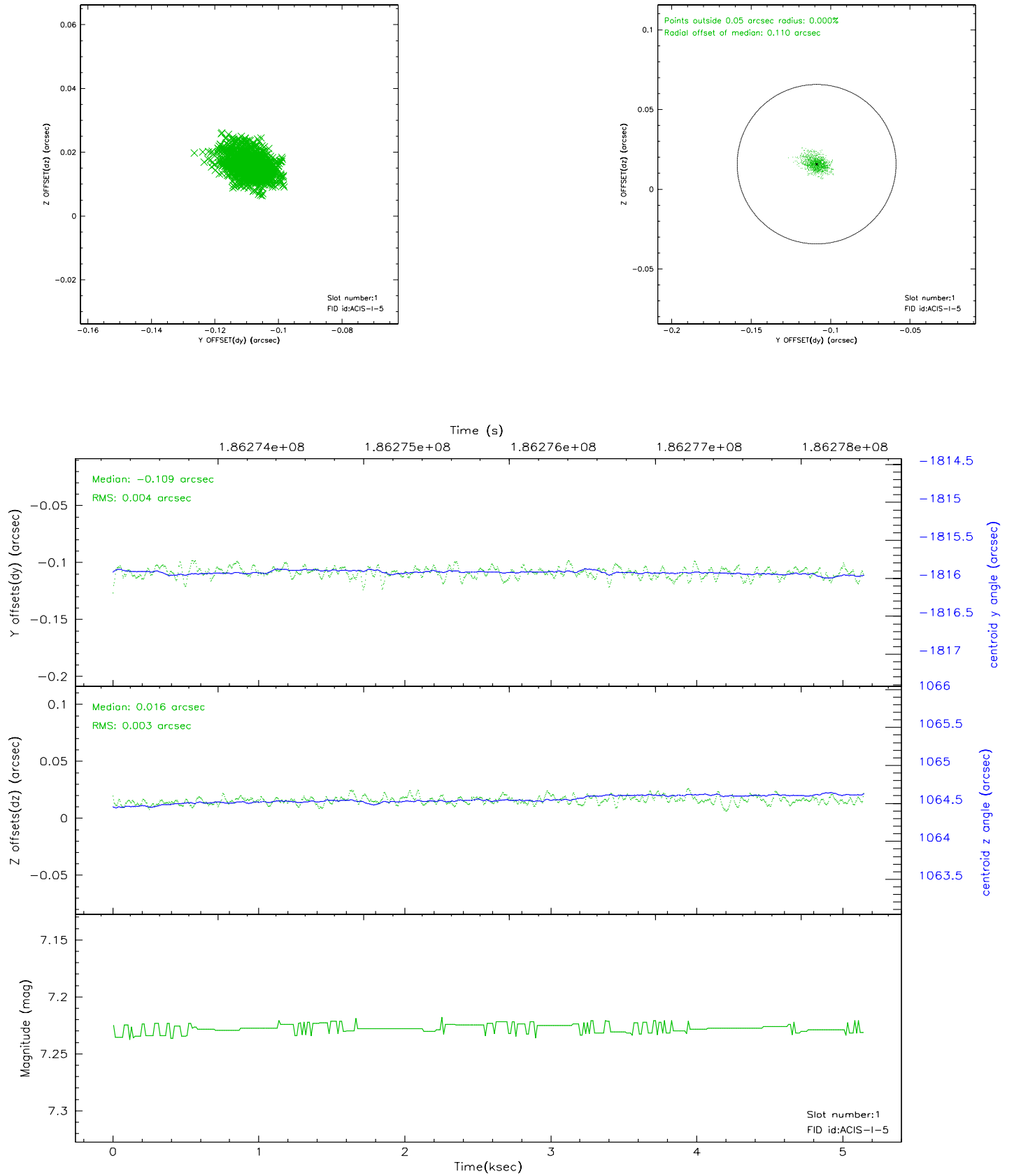


2.5 FID Slots

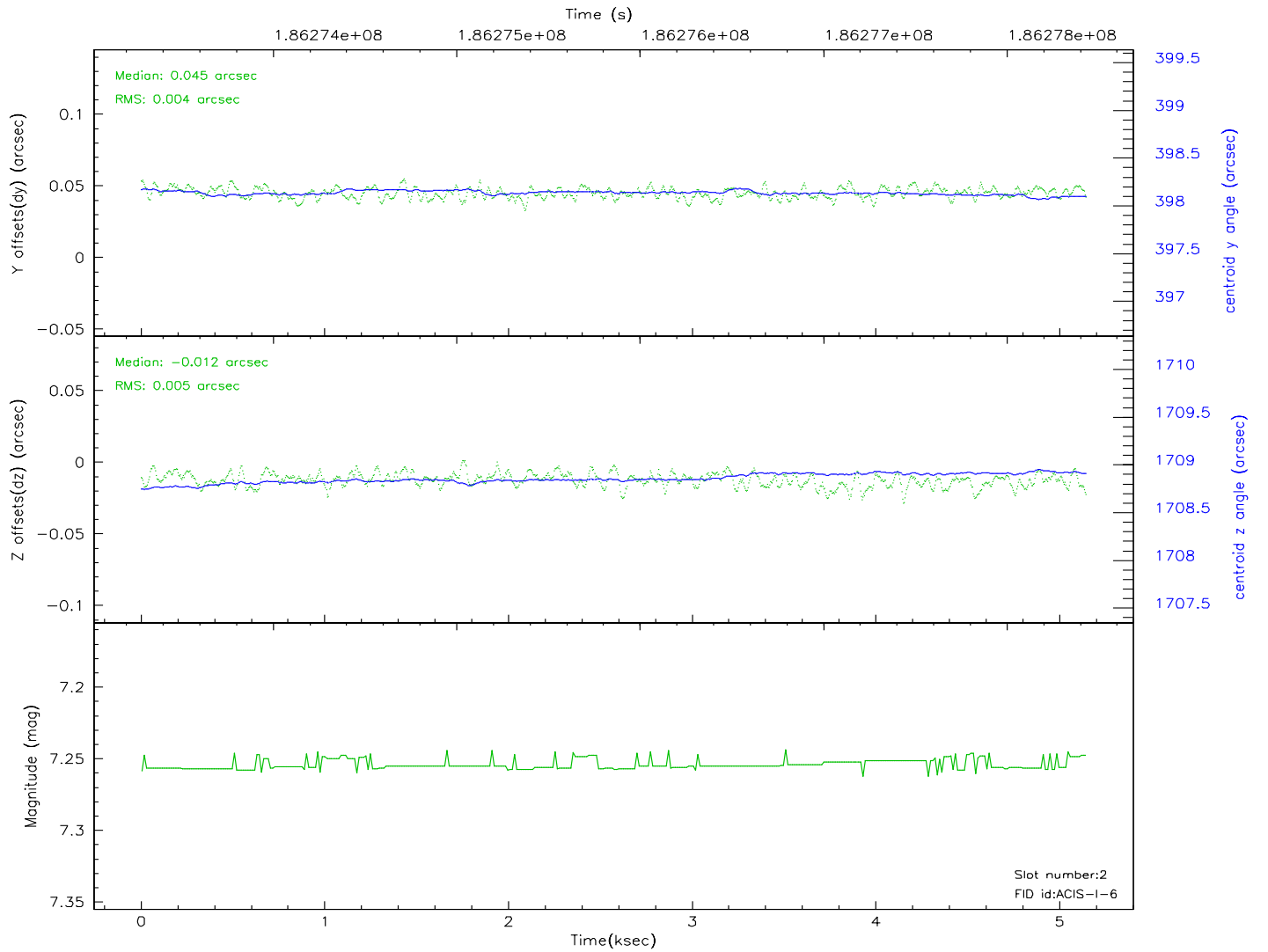
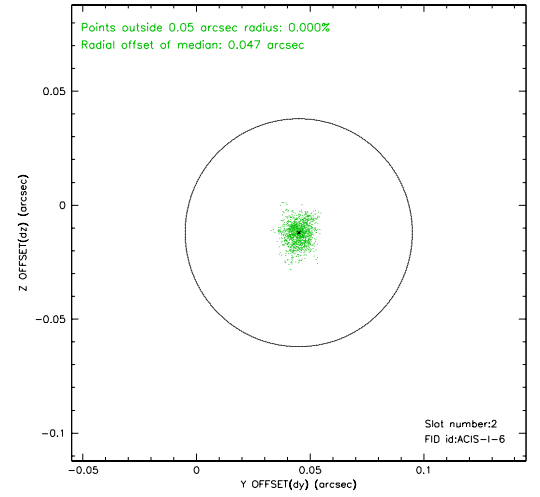
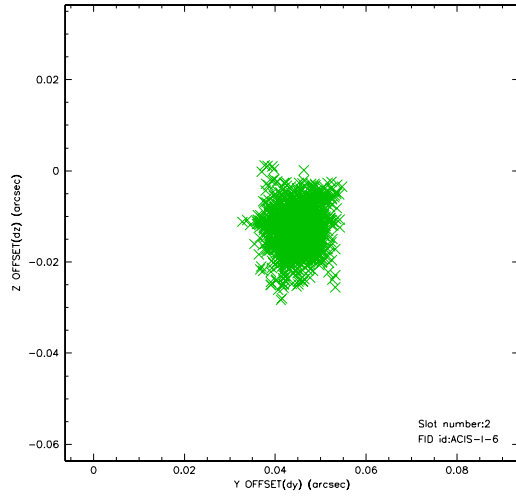
2.5.1 Slot 0



2.5.2 Slot 1



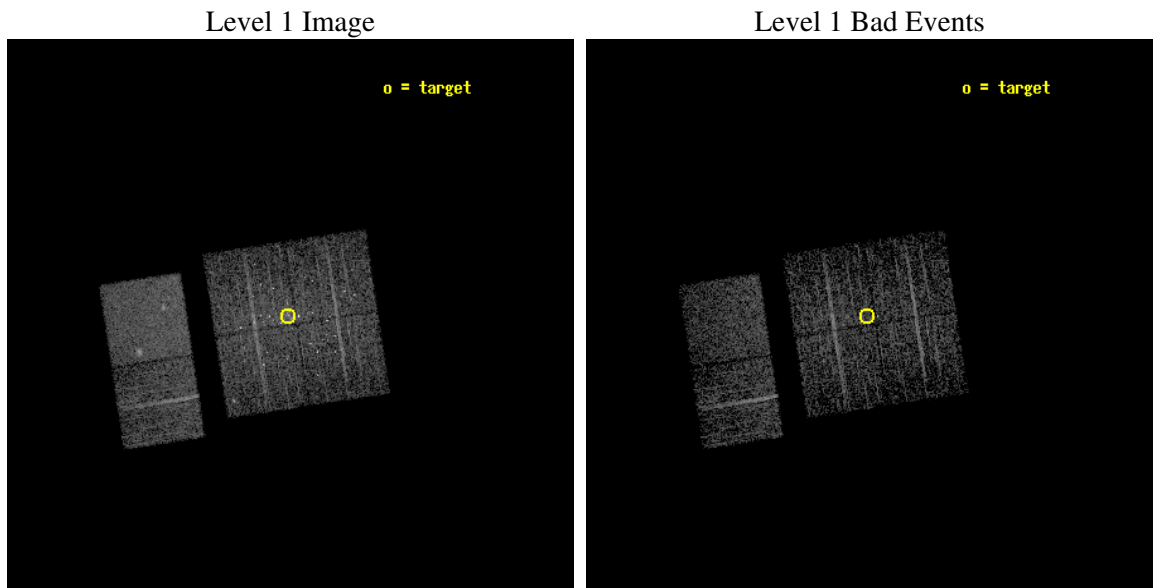
2.5.3 Slot 2



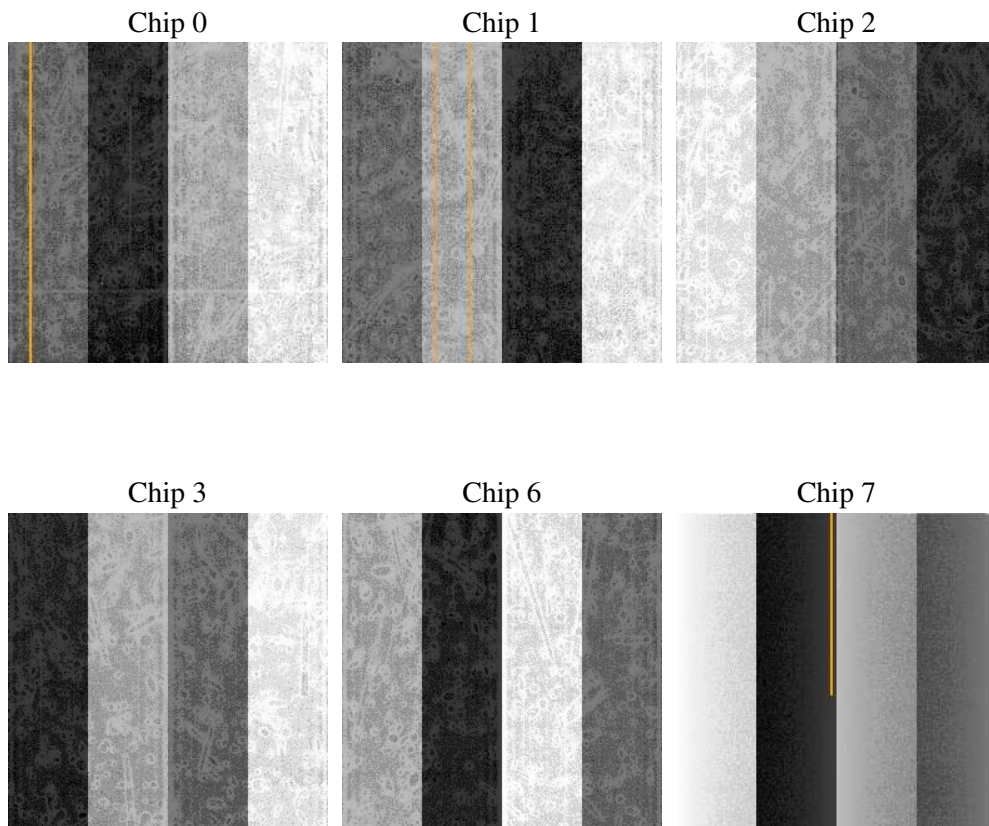
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	1
ascdsver	7.6.8
caldsver	3.2.2
date	2006-06-26T22:33:39
revision	2

sched_exp_time	4891.000000
ontime	3873.0111520886
ontime0	3873.0110821426
ontime1	3873.0112318397
ontime2	3873.0112117231
ontime3	3873.0111520886
ontime6	3873.0109227002
ontime7	3873.011052072
l1events	127466

3.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	19004	19973	19102	23184	19274	26929
rejected events	14731	14702	15441	15997	16748	16335
rejected %	77%	73%	80%	69%	86%	60%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	2526	3102	2125	5125	1029	817
	13%	15%	11%	22%	5%	3%
grade 1 events	21	83	16	52	12	18
	0%	0%	0%	0%	0%	0%
grade 2 events	718	849	568	908	520	2664
	3%	4%	2%	3%	2%	9%
grade 3 events	285	334	270	314	228	561
	1%	1%	1%	1%	1%	2%
grade 4 events	279	363	256	335	249	591
	1%	1%	1%	1%	1%	2%
grade 5 events	840	925	731	915	887	1780
	4%	4%	3%	3%	4%	6%
grade 6 events	468	630	443	507	505	5973
	2%	3%	2%	2%	2%	22%
grade 7 events	13867	13687	14693	15028	15844	14525
	72%	68%	76%	64%	82%	53%

4 Point Sources

4.12 arcmin



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.772

A.2 Comments

Window constraint met.