

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1861 - L2 Version 001
Chandra X-Ray Center

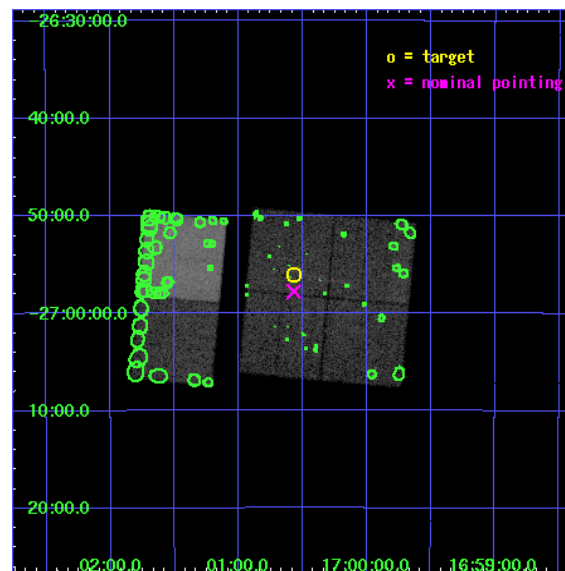
L2 Processing Date : Dec 11 2006

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 2	9
2.4.2	Slot 3	10
2.4.3	Slot 4	11
2.4.4	Slot 5	12
2.4.5	Slot 6	13
2.4.6	Slot 7	14
2.5	FID Slots	15
2.5.1	Slot 0	15
2.5.2	Slot 1	16
3	Point Sources	17
A	Summary	18
A.1	Status	18
A.2	Comments	18

1 Front

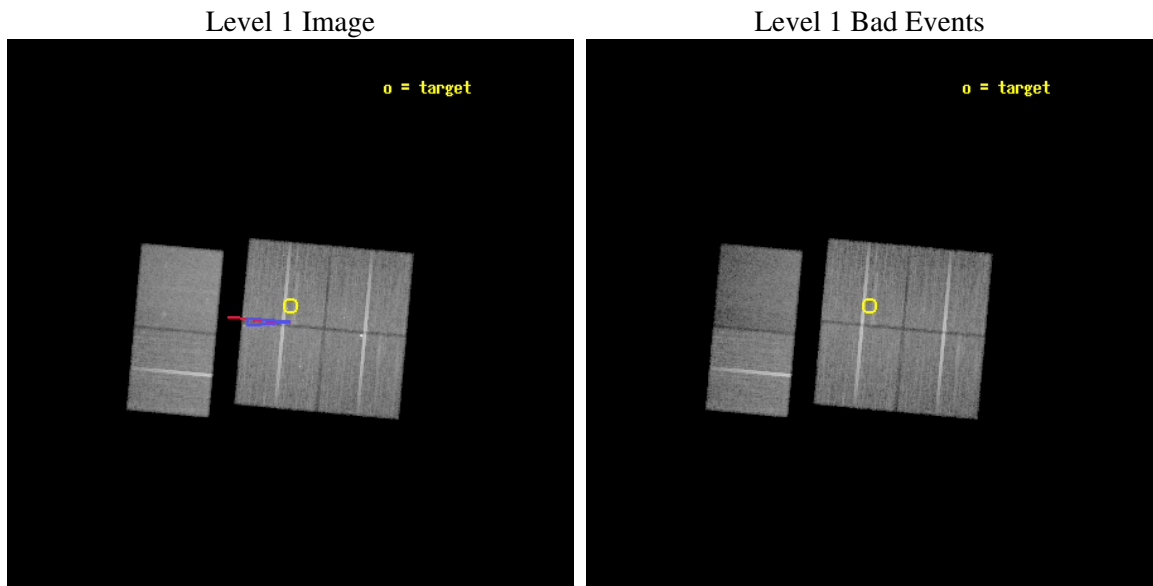
seq_num	100019
obs_id	1861
title	MARS - A PLANETARY ANALOG TO A COMET
observer	Dr. Konrad Dennerl
object	MARS
dtcycle	0
cycle	P
ra_targ	255.141454
dec_targ	-26.93337
ra_nom	255.14228025794
dec_nom	-26.962798040687
roll_nom	275.20807310258
revision	3
ontime	33164.7180904
livetime	32744.766460544
ontime0	33171.200030893
ontime1	33161.477110133
ontime2	33164.718070462
ontime3	33164.7180904
ontime6	33171.200030893
ontime7	33167.959060654
l2events	172117



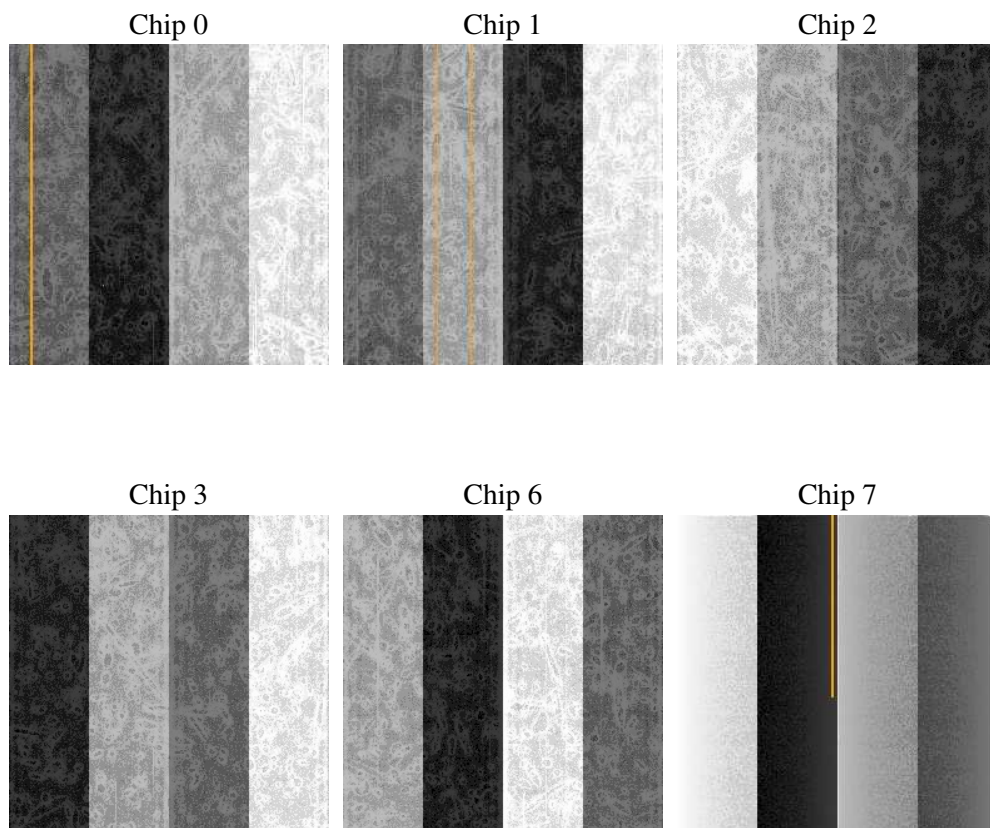
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-12-11T17:00:01
revision	3

sched_exp_time	33000.000000
ontime	33191.114127234
ontime0	33197.596087664
ontime1	33187.873146966
ontime2	33191.114107296
ontime3	33191.114127234
ontime6	33197.596067727
ontime7	33194.355117425
l1events	1105963

2.1.4 Events

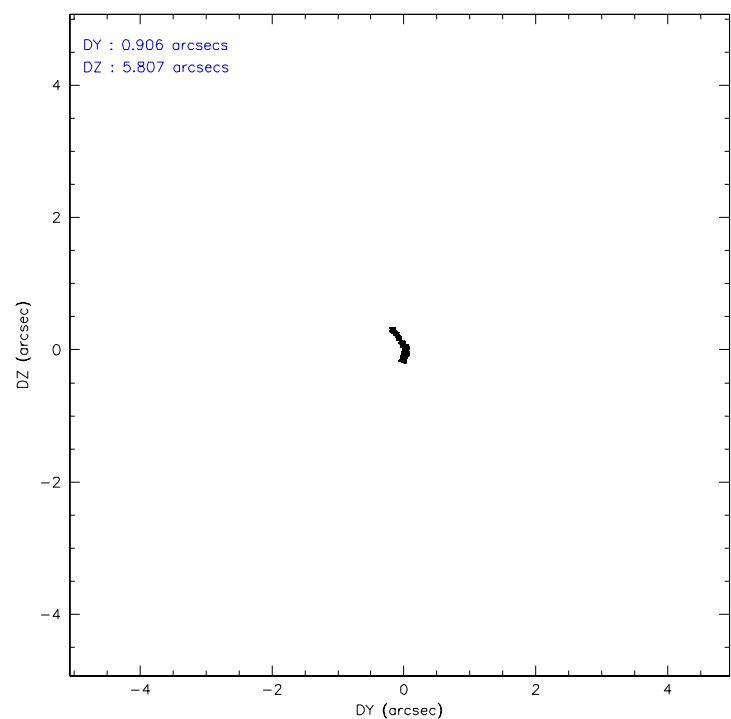
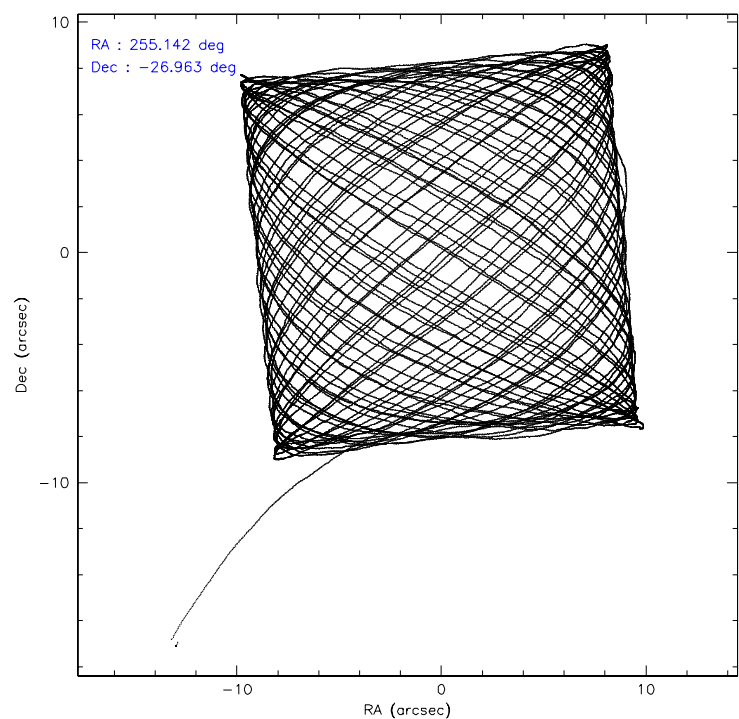
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	171700	174206	190098	185743	190144	194072
rejected events	150393	152395	169535	166023	169053	107635
rejected %	87%	87%	89%	89%	88%	55%

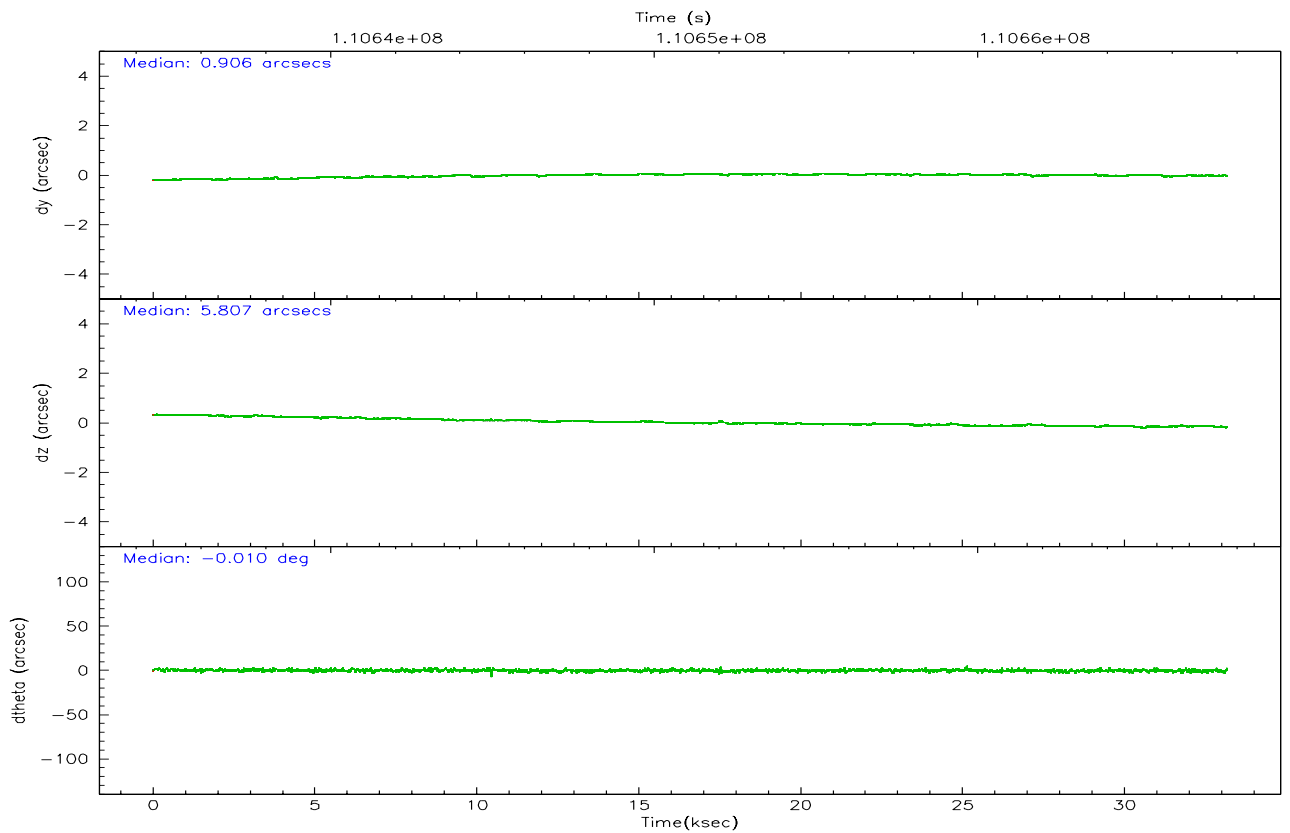
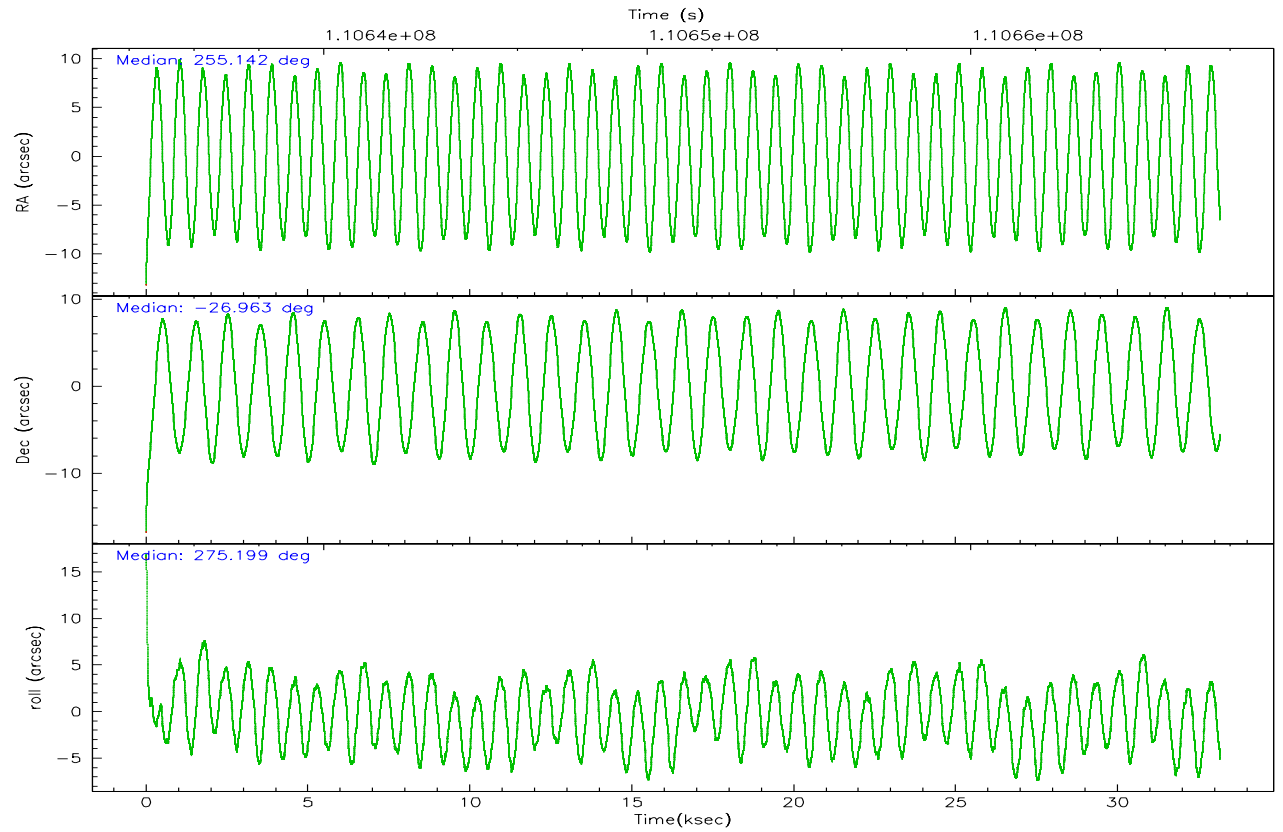
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	9824	9516	9266	9046	9053	7681
	5%	5%	4%	4%	4%	3%
grade 1 events	111	65	70	79	84	111
	0%	0%	0%	0%	0%	0%
grade 2 events	4168	4084	4158	3672	3962	21381
	2%	2%	2%	1%	2%	11%
grade 3 events	2127	2285	1974	1989	2223	5698
	1%	1%	1%	1%	1%	2%
grade 4 events	1908	2225	1992	1864	2085	5496
	1%	1%	1%	1%	1%	2%
grade 5 events	5594	6067	5460	6065	6669	14254
	3%	3%	2%	3%	3%	7%
grade 6 events	3304	3720	3193	3165	3789	46280
	1%	2%	1%	1%	1%	23%
grade 7 events	144664	146244	163985	159863	162279	93171
	84%	83%	86%	86%	85%	48%

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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	255.124502	255.142280257936	Subarray requested	NONE	NONE
Pointing Dec	-26.940375	-26.96279804068727	Alternating exposures requested	N	N
Pointing Roll	274.991321	275.2080731025754	Primary exposure time	0.000000	3.2
Roll angle	270.000000	270.000000			
Roll tolerance	5.000000	5.000000			
Roll constraint allows 180D rotation	N	N			
Window start time	110592064.184000	110592064.184000			
Window stop time	110851264.184000	110851264.184000			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-224.802463	-224.7973881665749			
SIM translation stage offset (mm)	-8.789999999999999	-8.795064836354754			
Observation start time	110634694.184000	110633613.61842			
Observation start date	2001-07-04T11:50:30	2001-07-04T11:33:33			
Observation end time	110667694.184000	110668934.6073			
Observation end date	2001-07-04T21:00:30	2001-07-04T21:22:14			
Read mode	TIMED	TIMED			

2.3 Aspect



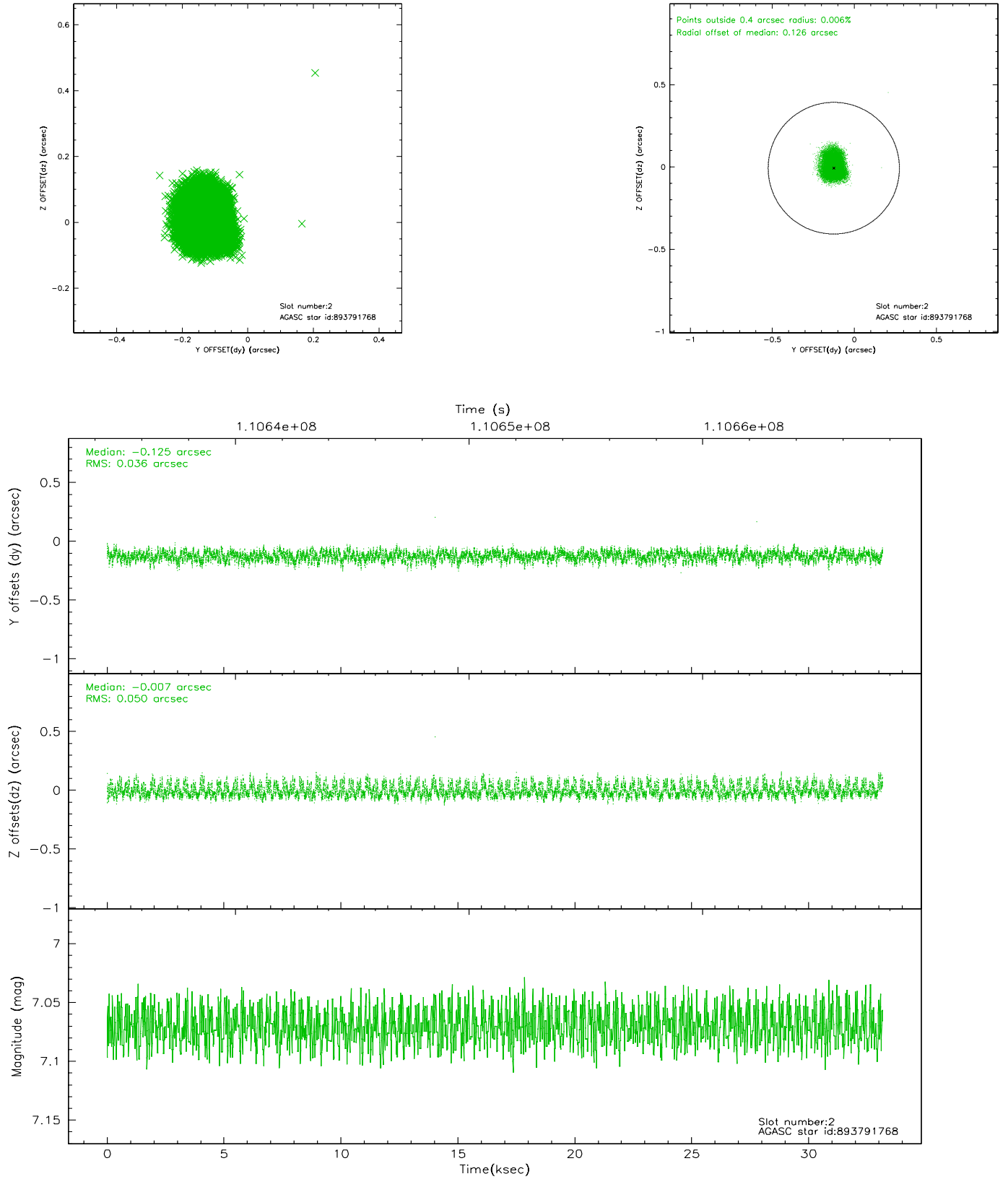


Slot Statistics

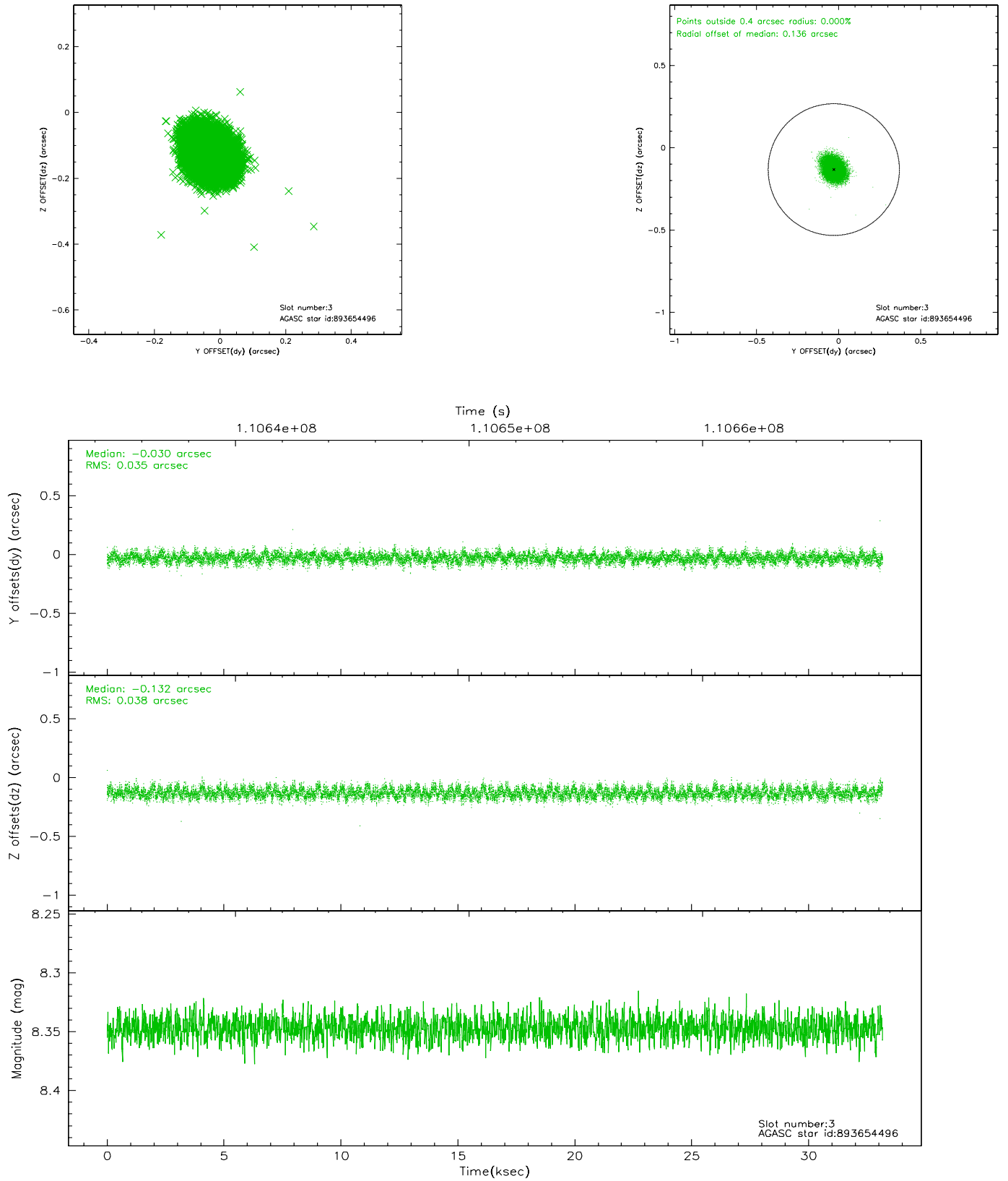
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	6.99	8090	-0.052	-0.013	0.005	0.010	0.000000	0.000000	938.91	-1009.65
1	FID	ACIS-I-4	7.14	8090	-0.013	0.058	0.005	0.010	0.000000	0.000000	2158.25	891.46
2	GUIDE	893791768	7.07	16182	-0.125	-0.007	0.066	0.106	255.768732	-27.097762	748.62	2007.69
3	GUIDE	893654496	8.35	16178	-0.030	-0.132	0.055	0.089	255.228631	-27.239289	1100.84	239.07
4	GUIDE	893804536	9.22	16169	0.070	0.075	0.089	0.148	255.779404	-27.304772	1494.21	1973.30
5	GUIDE	893656784	10.33	16099	0.073	-0.052	0.144	0.229	254.785882	-27.507558	1941.58	-1254.07
6	GUIDE	893782112	9.90	16170	0.102	0.009	0.108	0.176	255.398794	-27.339087	1507.01	749.56
7	GUIDE	893788152	8.24	16180	-0.081	0.099	0.065	0.105	255.351096	-26.643807	-999.90	819.63

2.4 Star Slots

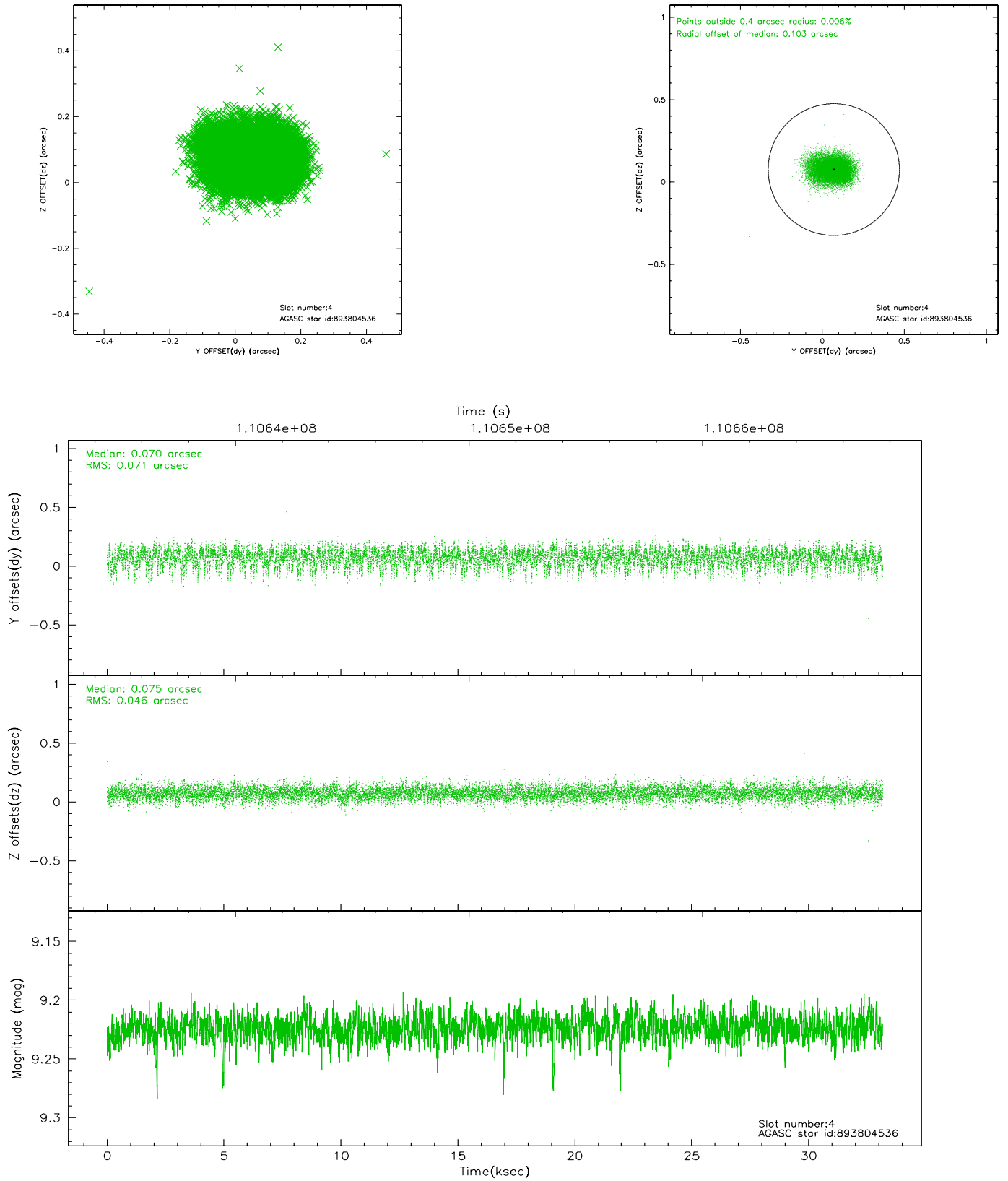
2.4.1 Slot 2



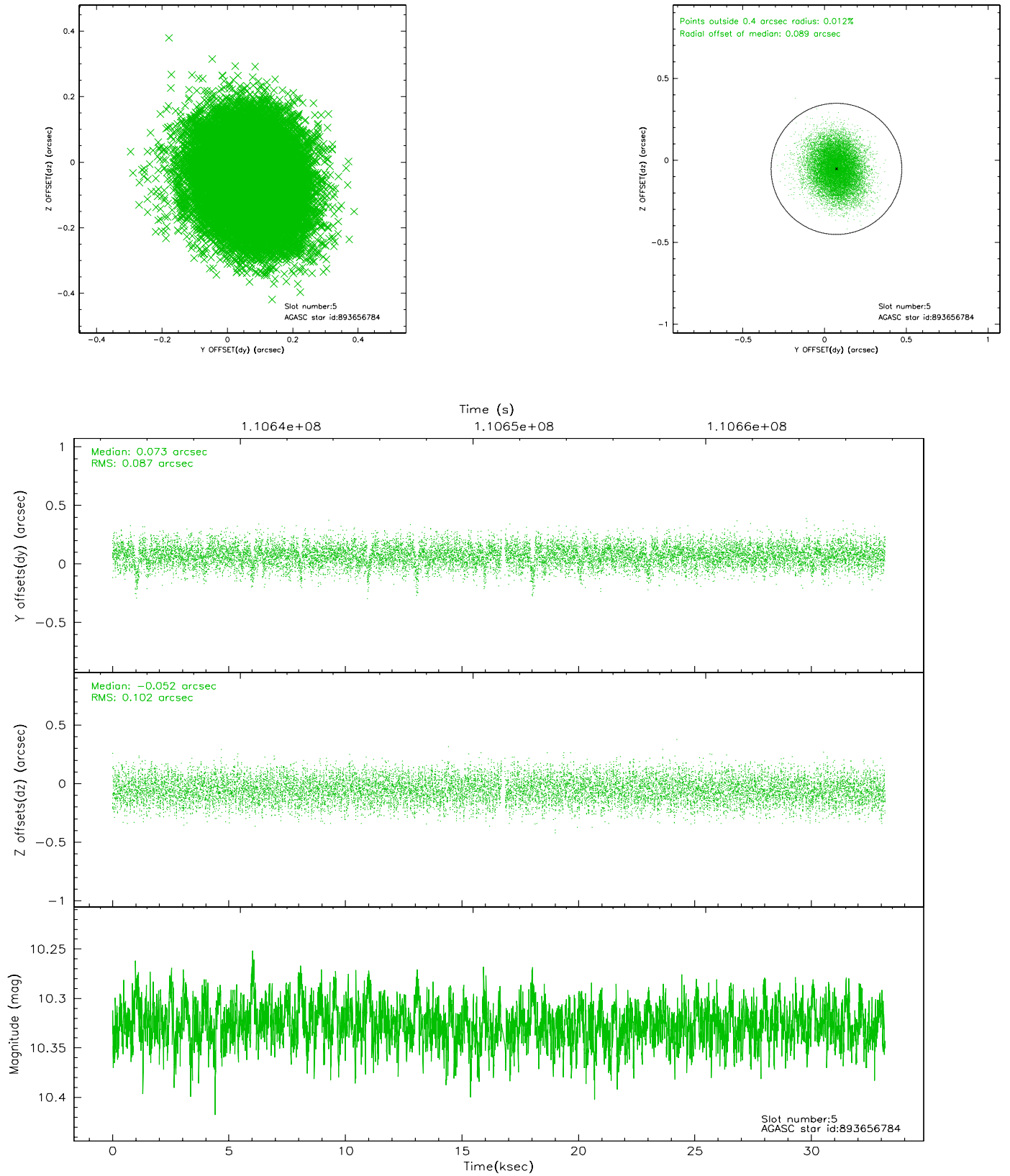
2.4.2 Slot 3



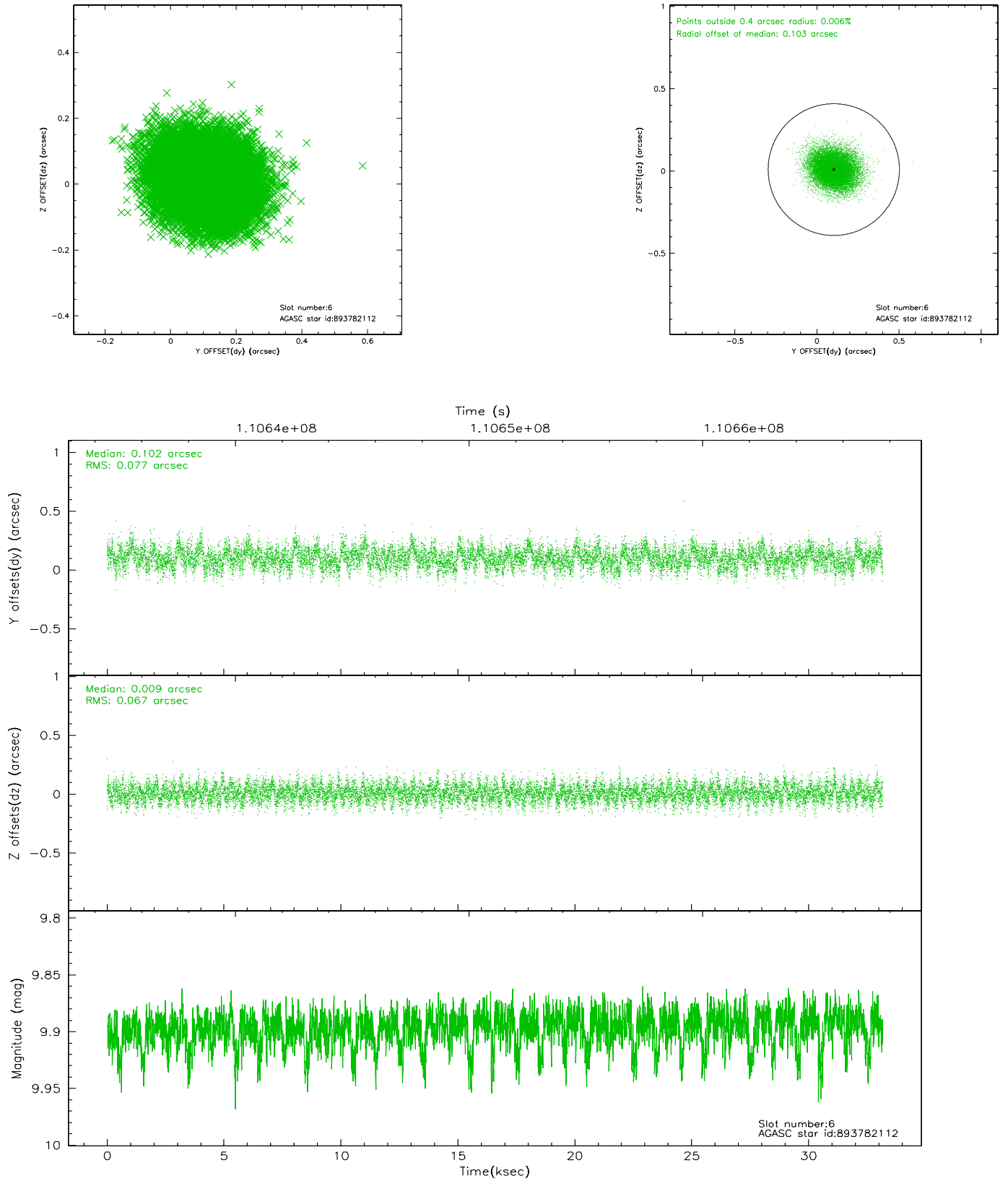
2.4.3 Slot 4



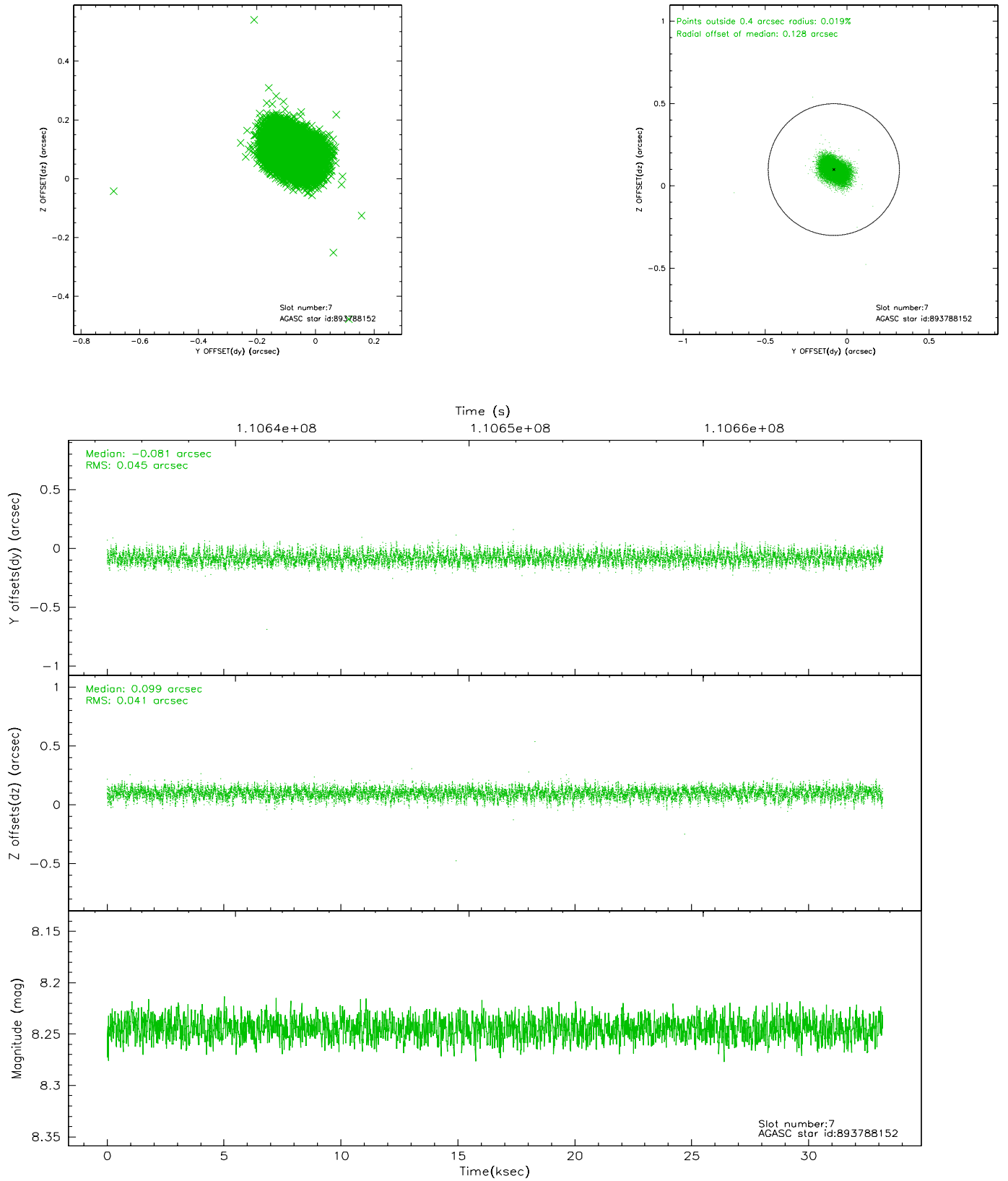
2.4.4 Slot 5



2.4.5 Slot 6

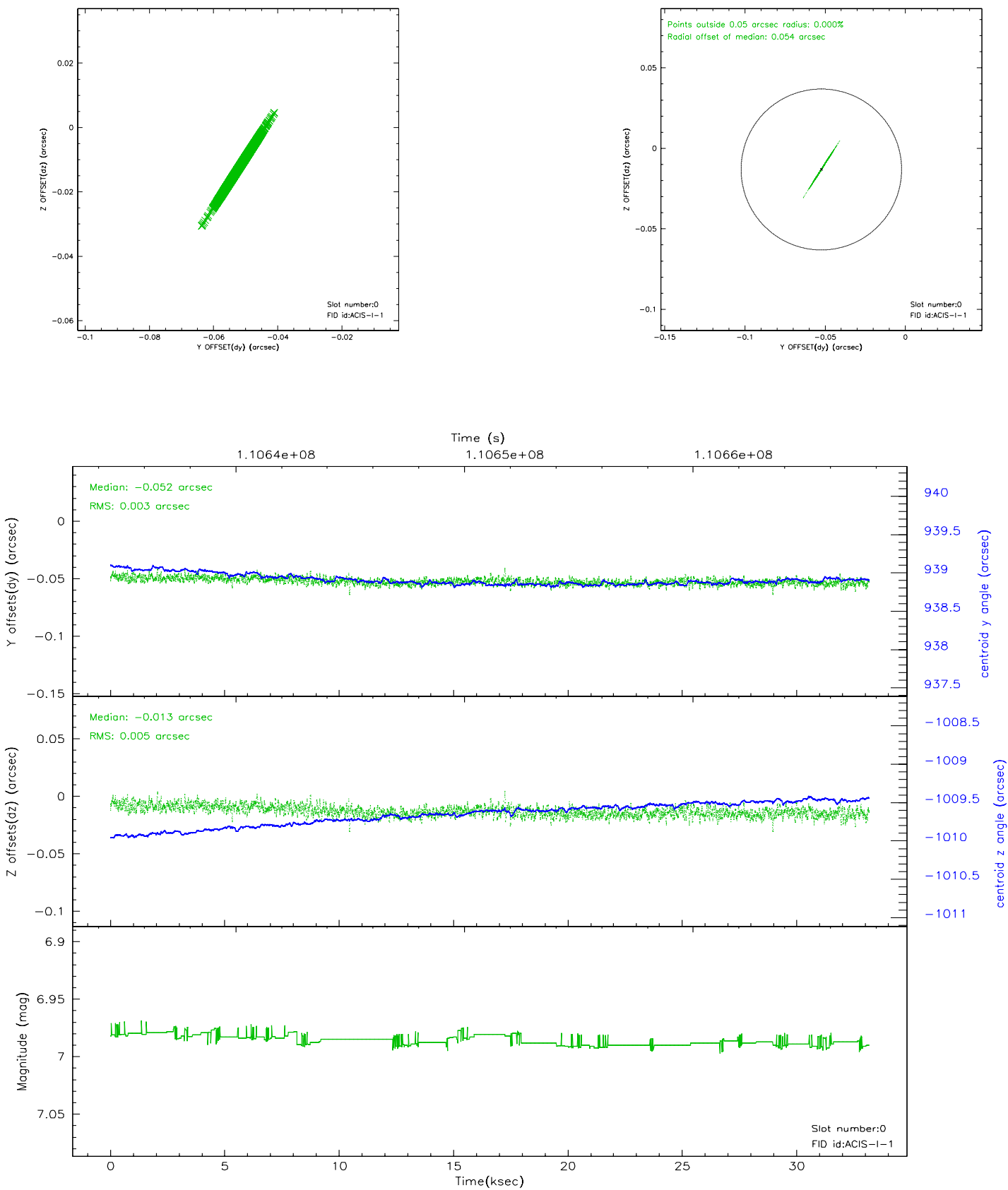


2.4.6 Slot 7

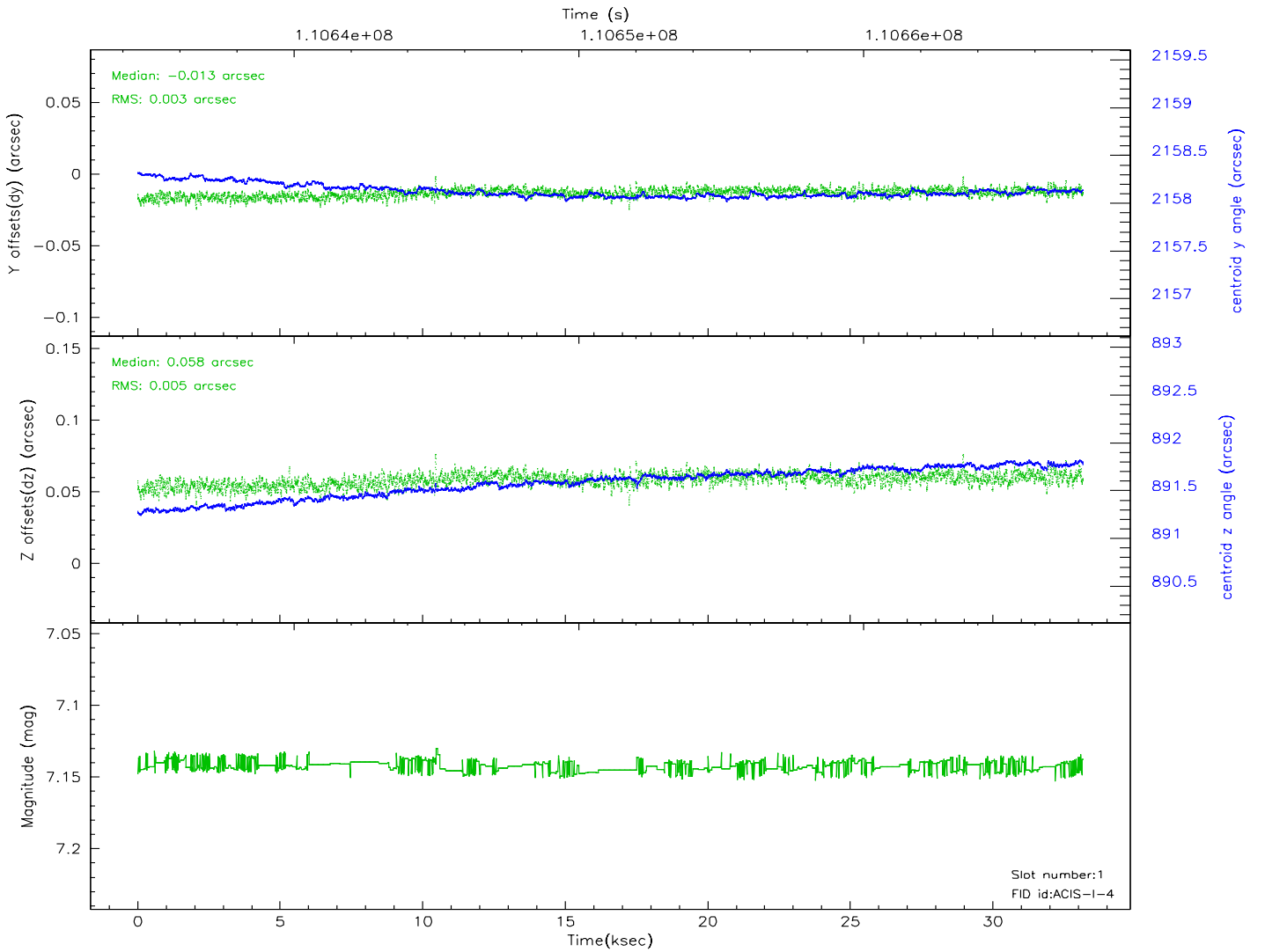
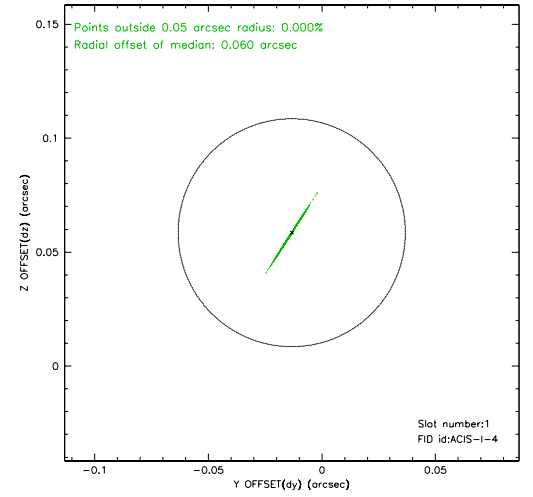
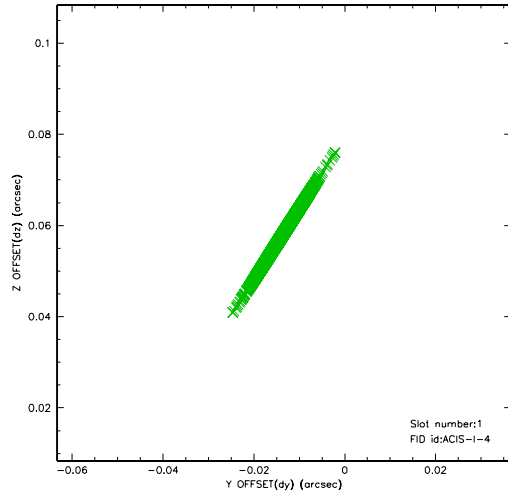


2.5 FID Slots

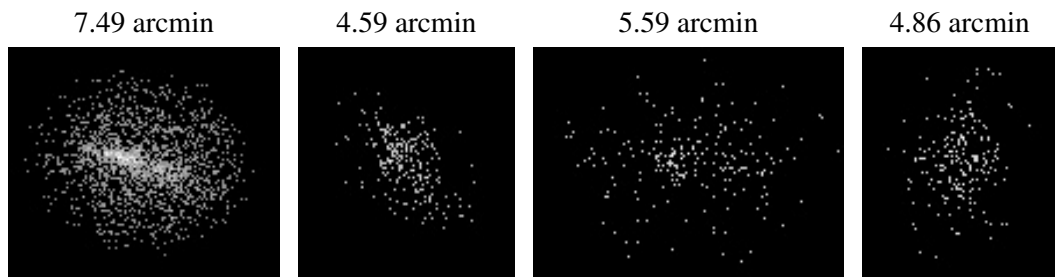
2.5.1 Slot 0



2.5.2 Slot 1



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.165

A.2 Comments

Roll constraint not satisfied.

Window constraint OK.

Slot 2 contains a guide star instead of a fid light.