

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 7172 - L2 Version 002
Chandra X-Ray Center

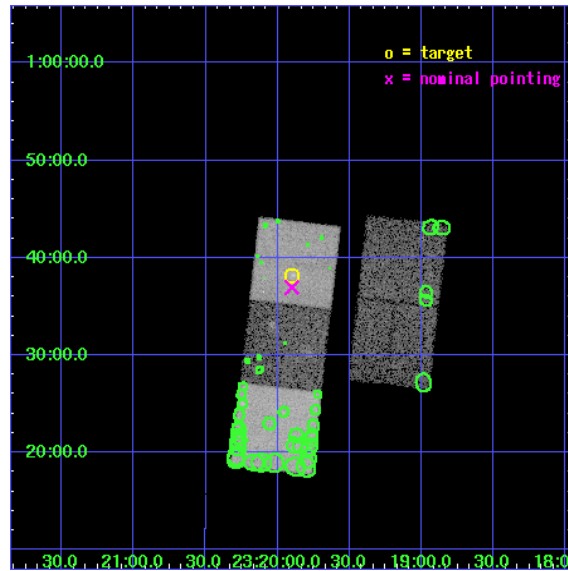
L2 Processing Date : Mar 26 2006

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1 Front

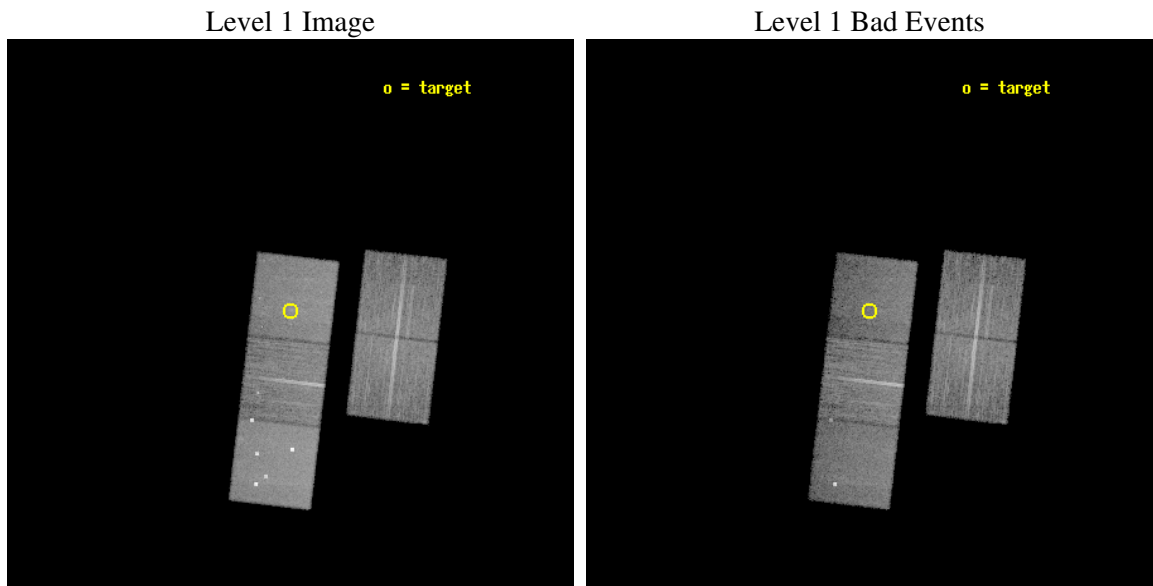
seq_num	800465
obs_id	7172
title	Cluster Strong Lensing at High Redshift
observer	Dr Michael Gladders
object	RCS2319.9+0038
dtcycle	0
cycle	P
ra_targ	349.974583
dec_targ	0.636556
ra_nom	349.97527835623
dec_nom	0.61582481597644
roll_nom	276.66559855398
revision	2
ontime	18184.599965036
livetime	17947.004779185
ontime2	18181.459014654
ontime3	18181.458984792
ontime5	18184.599965036
ontime6	18184.599965036
ontime7	18184.599965036
l2events	147020



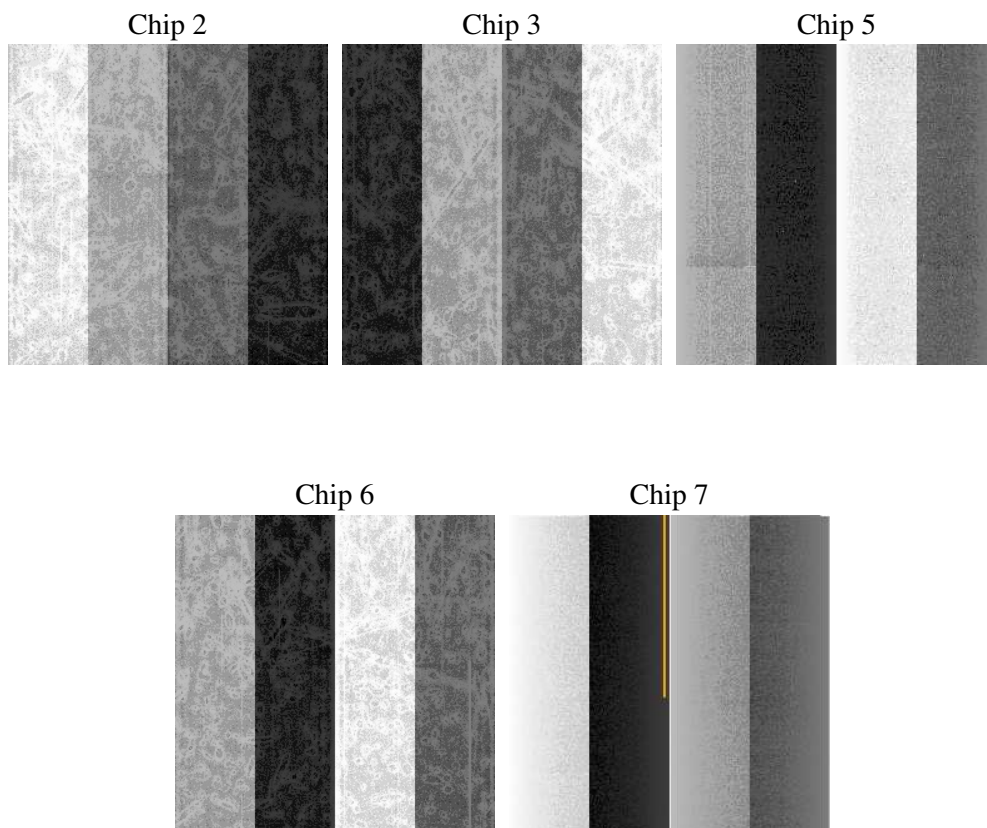
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-26T04:22:45
revision	2

sched_exp_time	18000.000000
ontime	18626.184887081
ontime2	18626.184936881
ontime3	18626.184926927
ontime5	18626.184887081
ontime6	18626.184887081
ontime7	18626.184887081
l1events	628362

2.1.4 Events

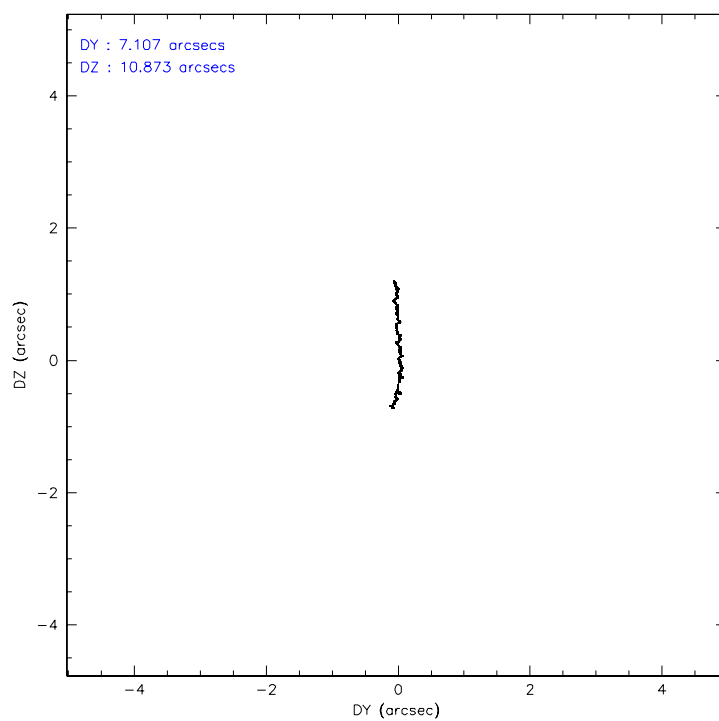
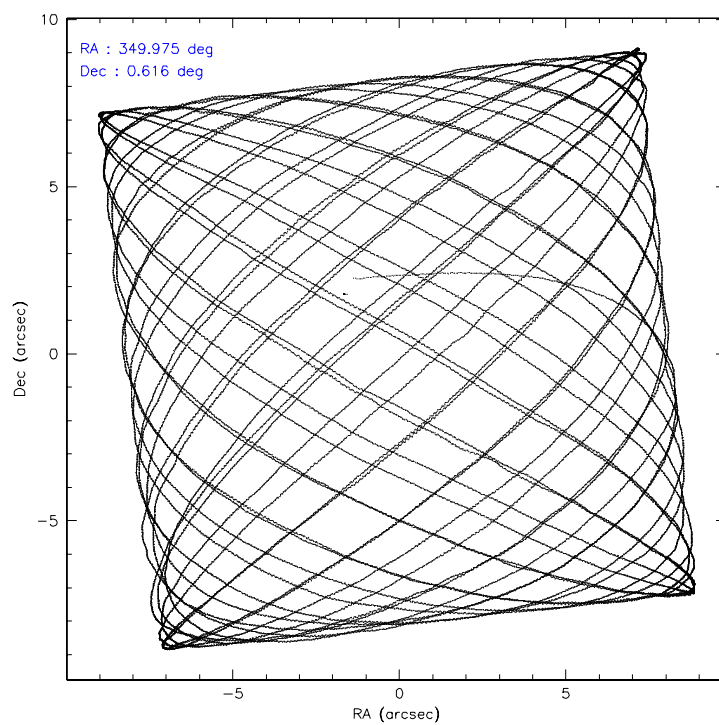
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	113344	106028	166223	114935	127832
rejected events	102741	95893	84827	102474	75443
rejected %	90%	90%	51%	89%	59%

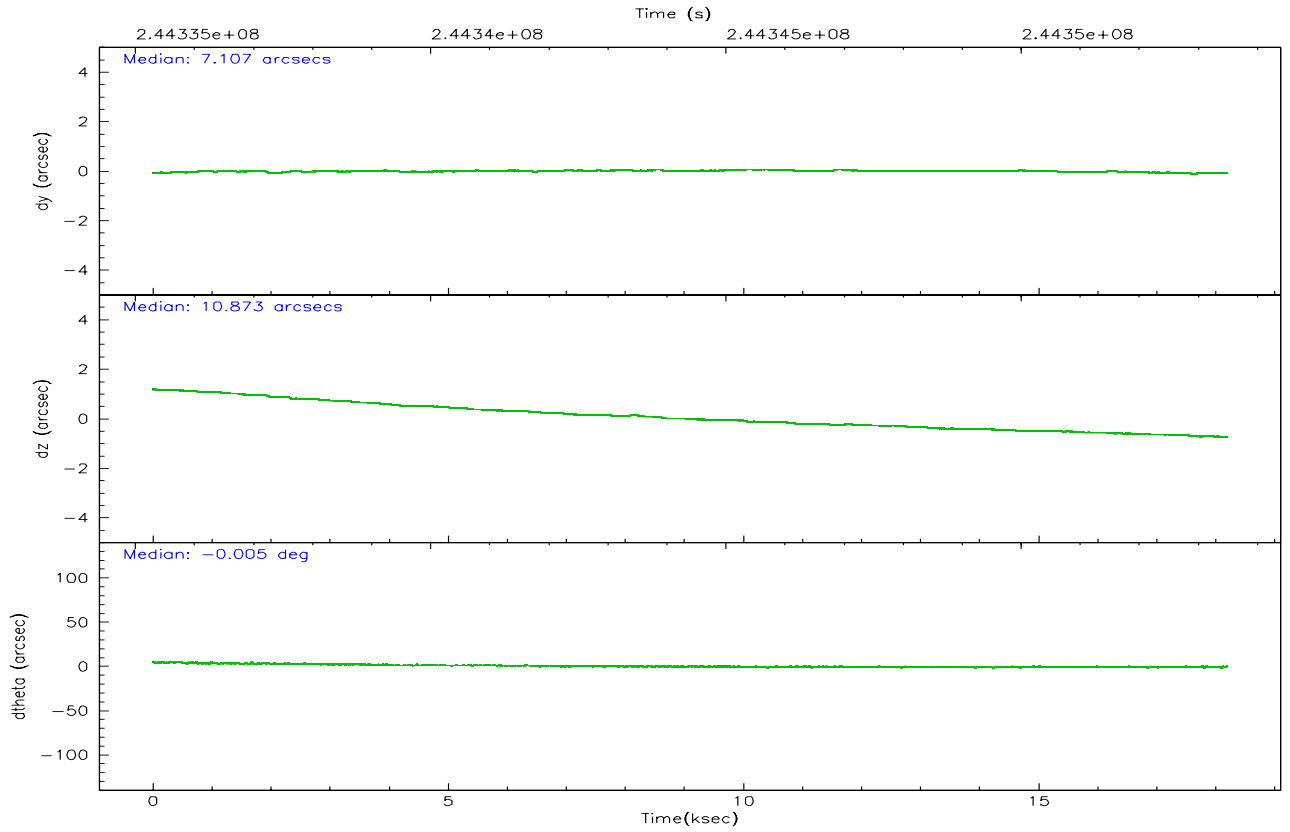
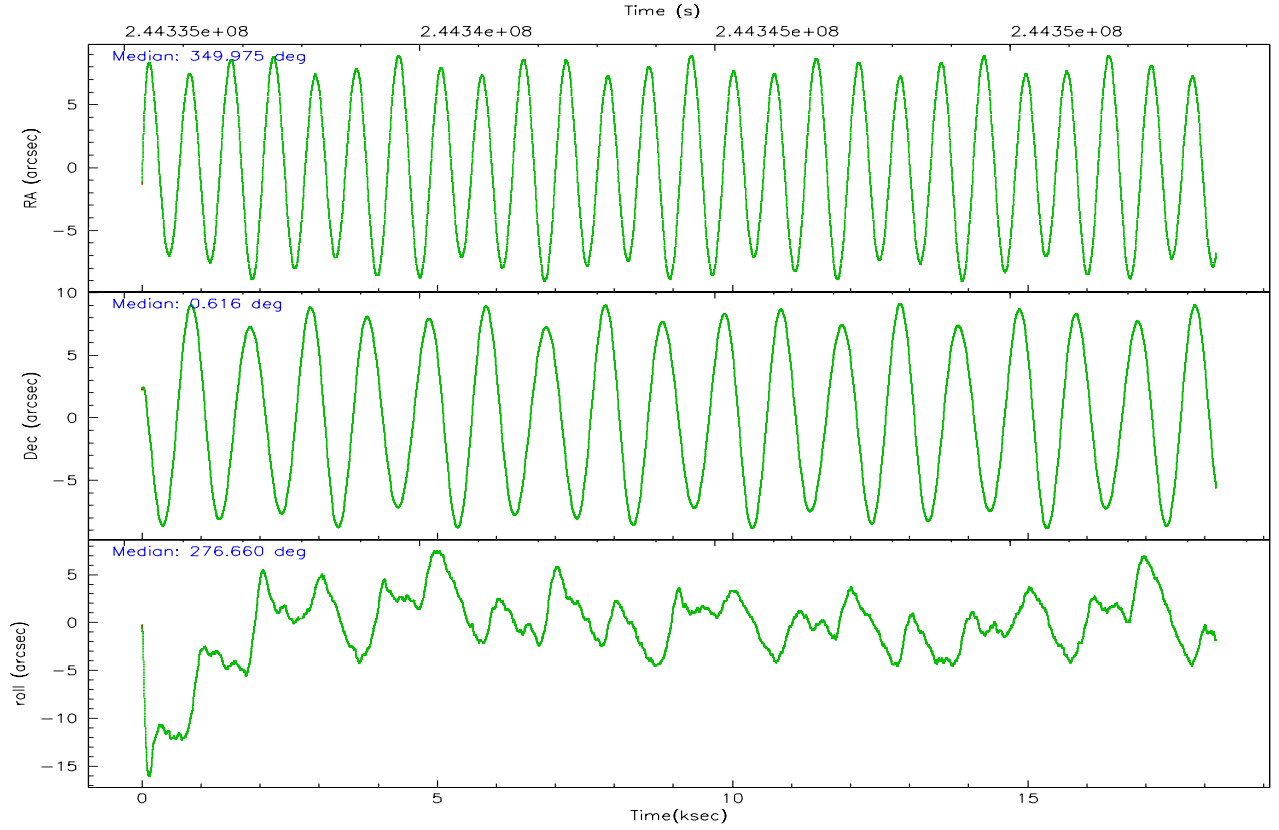
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	3780	3610	12104	4808	3445
	3%	3%	7%	4%	2%
grade 1 events	55	67	139	52	79
	0%	0%	0%	0%	0%
grade 2 events	2612	2316	24468	2681	13144
	2%	2%	14%	2%	10%
grade 3 events	1221	1146	2549	1324	2992
	1%	1%	1%	1%	2%
grade 4 events	1195	1183	2413	1285	2967
	1%	1%	1%	1%	2%
grade 5 events	3658	4528	9148	4666	9592
	3%	4%	5%	4%	7%
grade 6 events	2035	2118	41629	2615	31082
	1%	1%	25%	2%	24%
grade 7 events	98788	91060	73773	97504	64531
	87%	85%	44%	84%	50%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23567	ACIS-23567	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	349.958713	349.9752783562311	Alternating exposures requested	N	N
Pointing Dec	0.637432	0.6158248159764385	Primary exposure time	0.000000	3.1
Pointing Roll	276.509140	276.6655985539755			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	244335488.184000	244334268.79081			
Observation start date	2005-09-28T22:57:04	2005-09-28T22:37:48			
Observation end time	244353488.184000	244353881.65421			
Observation end date	2005-09-29T03:57:04	2005-09-29T04:04:41			
Read mode	TIMED	TIMED			

2.3 Aspect



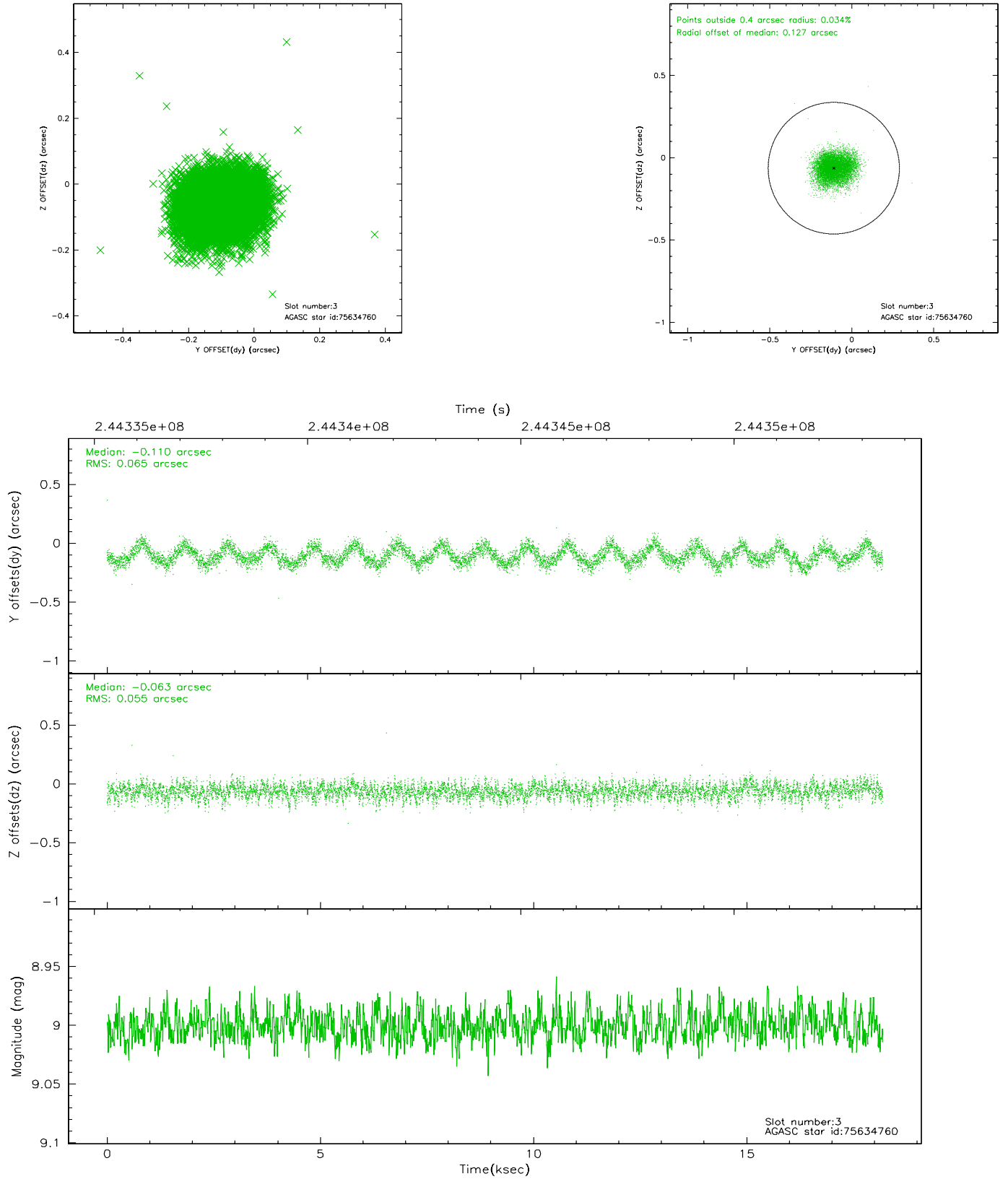


Slot Statistics

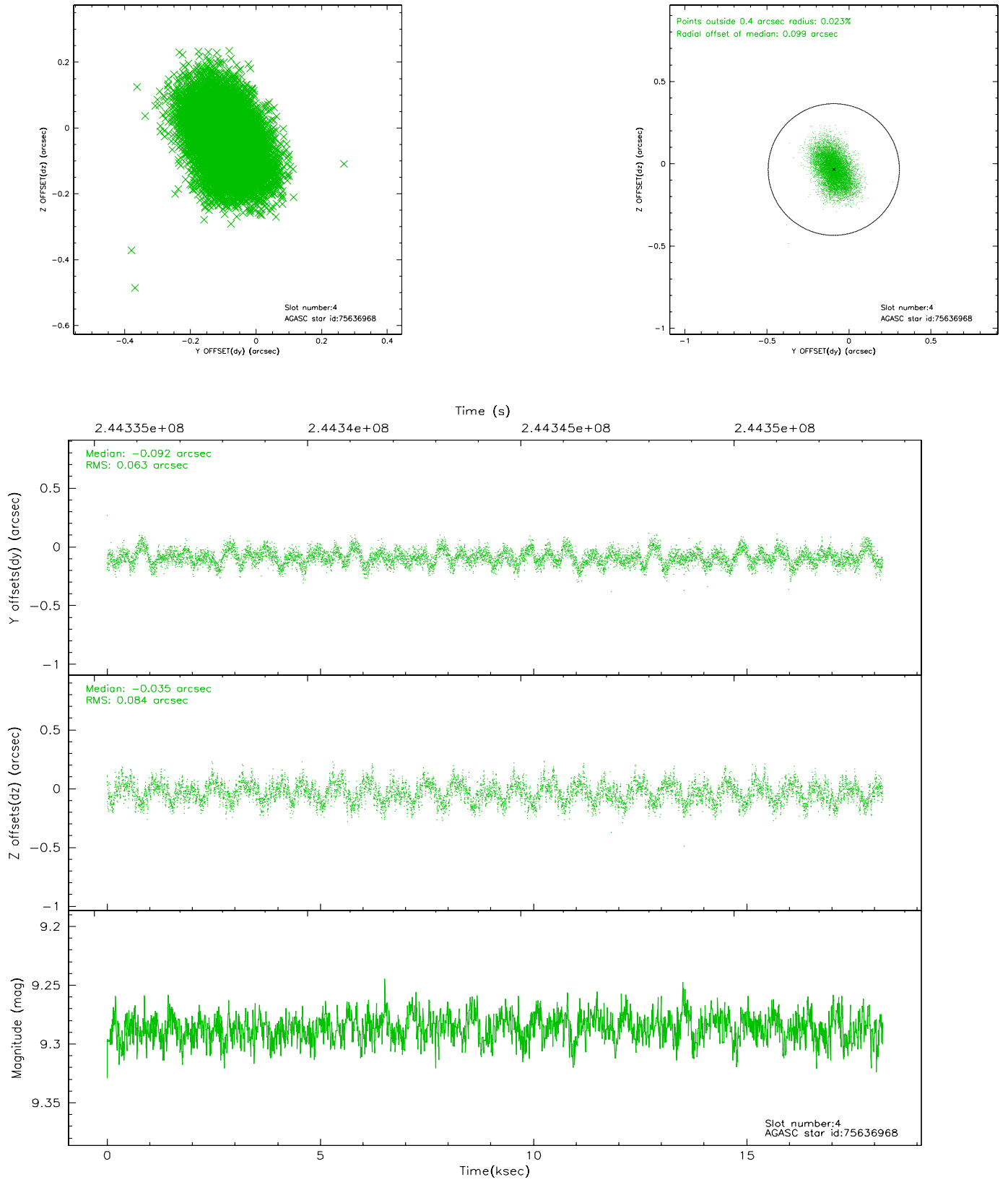
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4438	-0.042	-0.002	0.013	0.029	0.000000	0.000000	-759.86	-1732.19
1	FID	ACIS-S-4	7.21	4438	0.058	0.021	0.015	0.030	0.000000	0.000000	2153.37	176.14
2	FID	ACIS-S-5	7.23	4438	-0.048	-0.009	0.008	0.014	0.000000	0.000000	-1812.47	169.95
3	GUIDE	75634760	9.00	8870	-0.110	-0.063	0.091	0.144	349.528153	0.494791	334.86	-1597.98
4	GUIDE	75636968	9.29	8865	-0.092	-0.035	0.113	0.183	349.584767	0.524969	250.04	-1383.25
5	GUIDE	75765576	10.01	8869	0.139	0.030	0.168	0.275	350.147829	0.719056	-214.36	709.76
6	GUIDE	75769624	9.40	8865	-0.082	0.100	0.092	0.148	350.180830	0.159527	1800.19	600.04
7	GUIDE	687220280	9.39	8867	0.158	-0.029	0.114	0.183	349.573474	-0.035729	2251.45	-1652.23

2.4 Star Slots

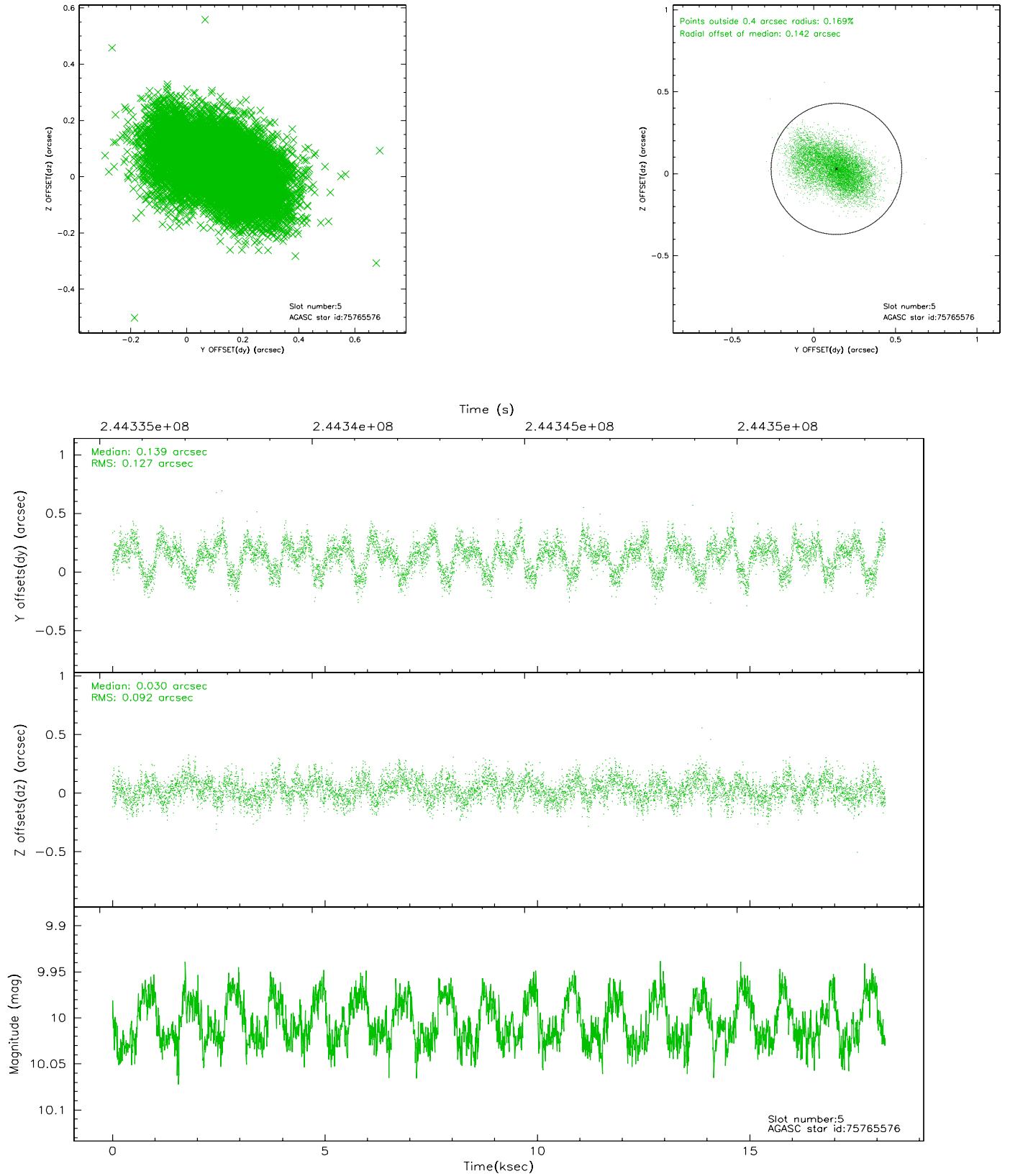
2.4.1 Slot 3



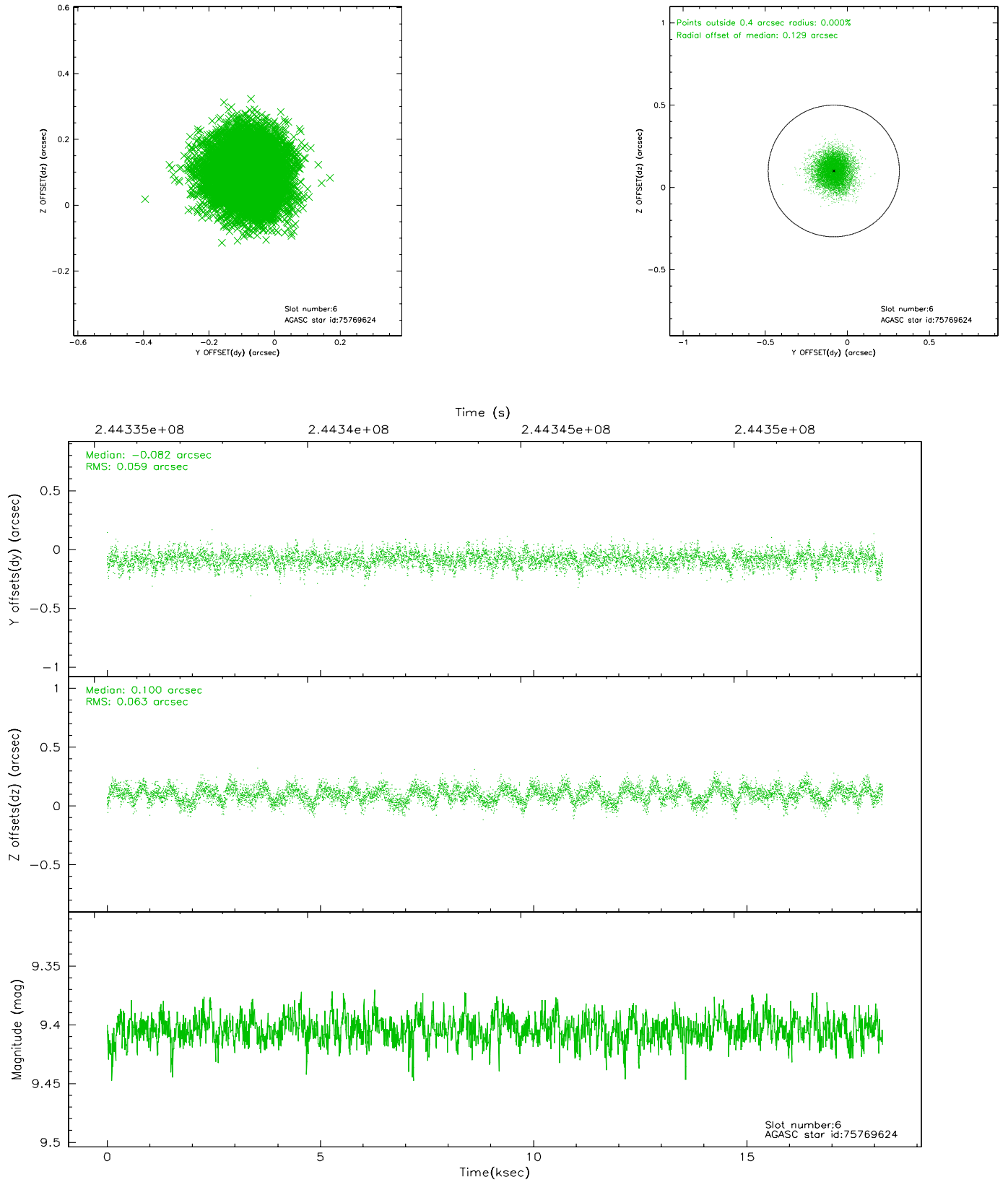
2.4.2 Slot 4



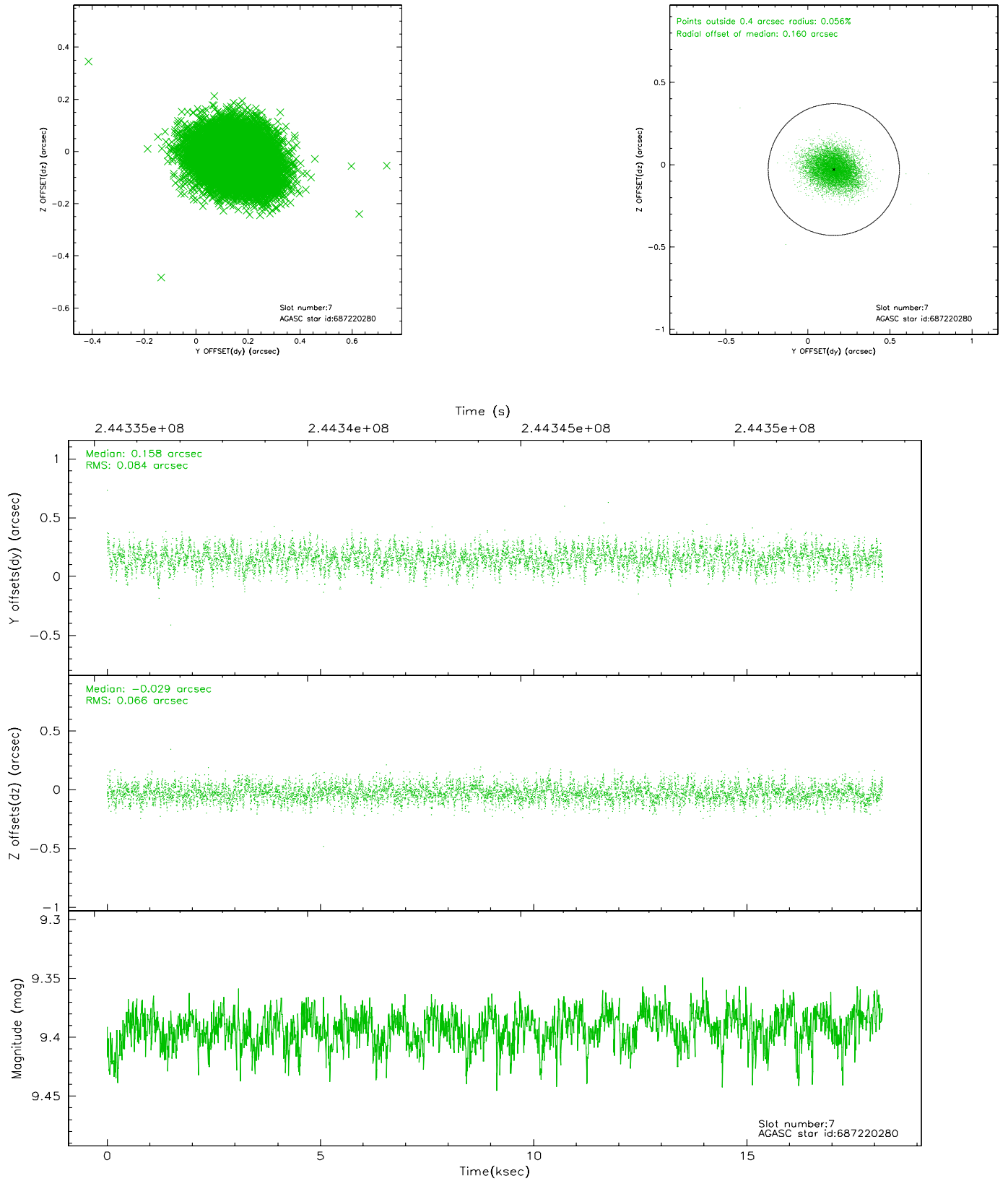
2.4.3 Slot 5



2.4.4 Slot 6

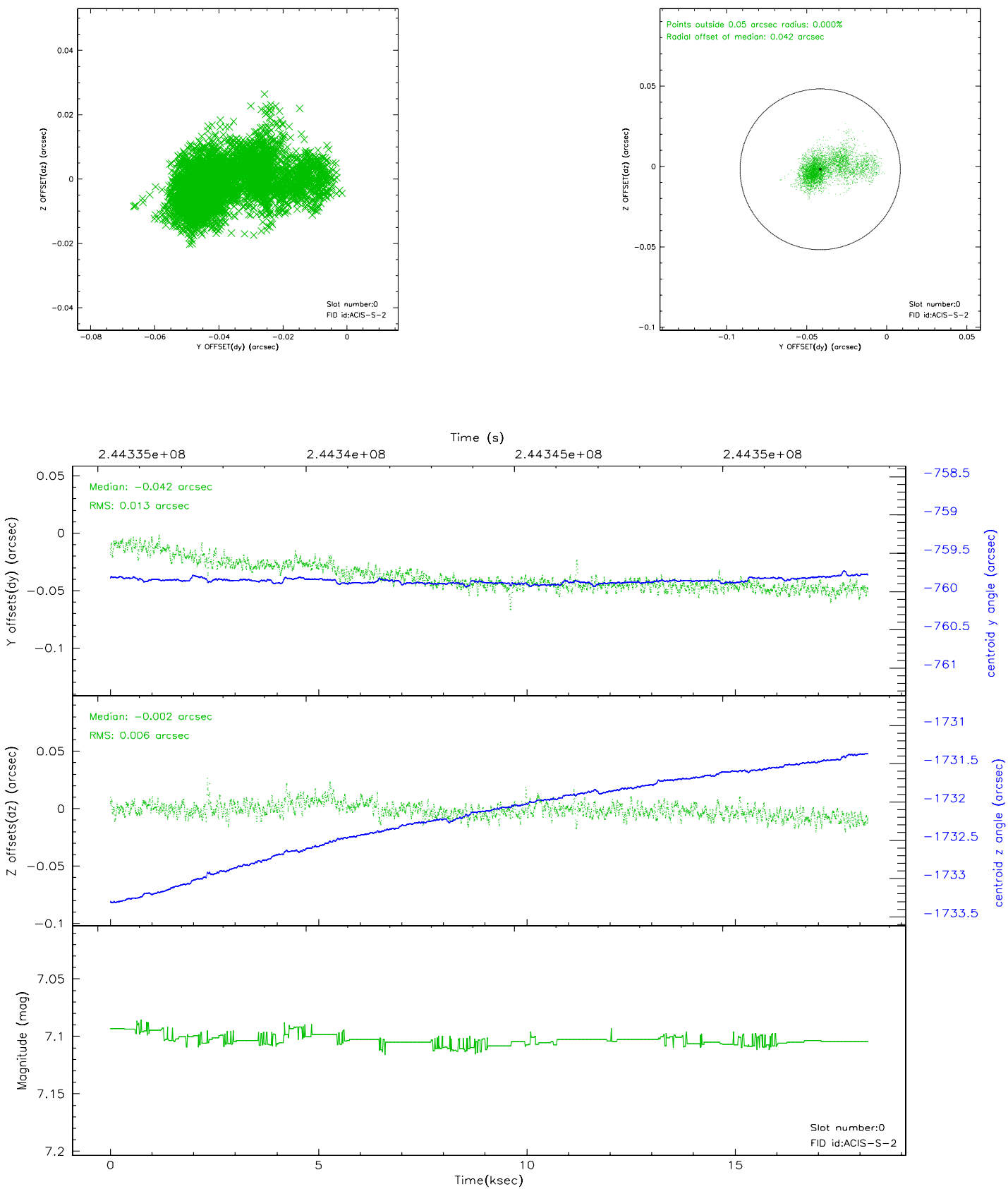


2.4.5 Slot 7

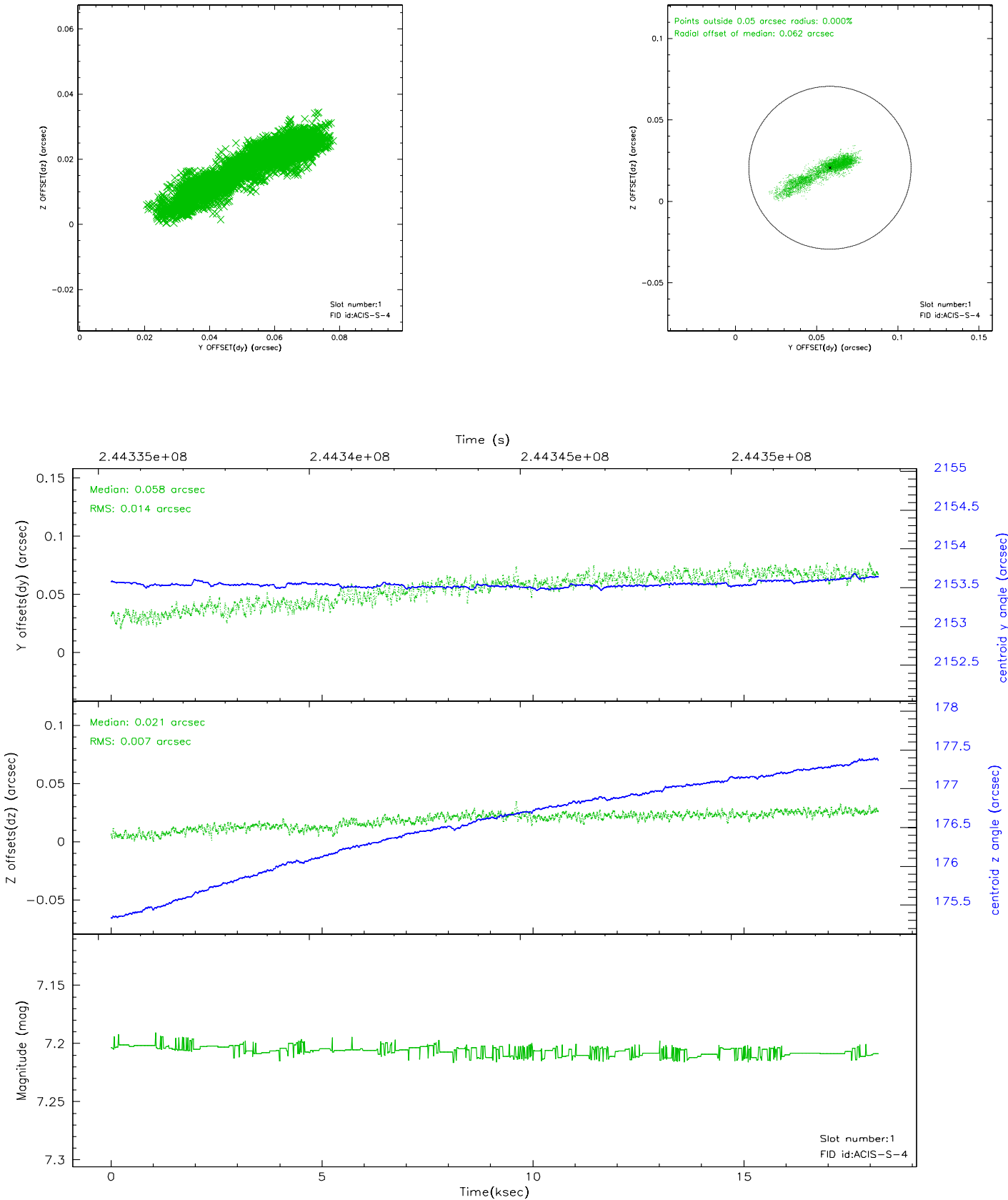


2.5 FID Slots

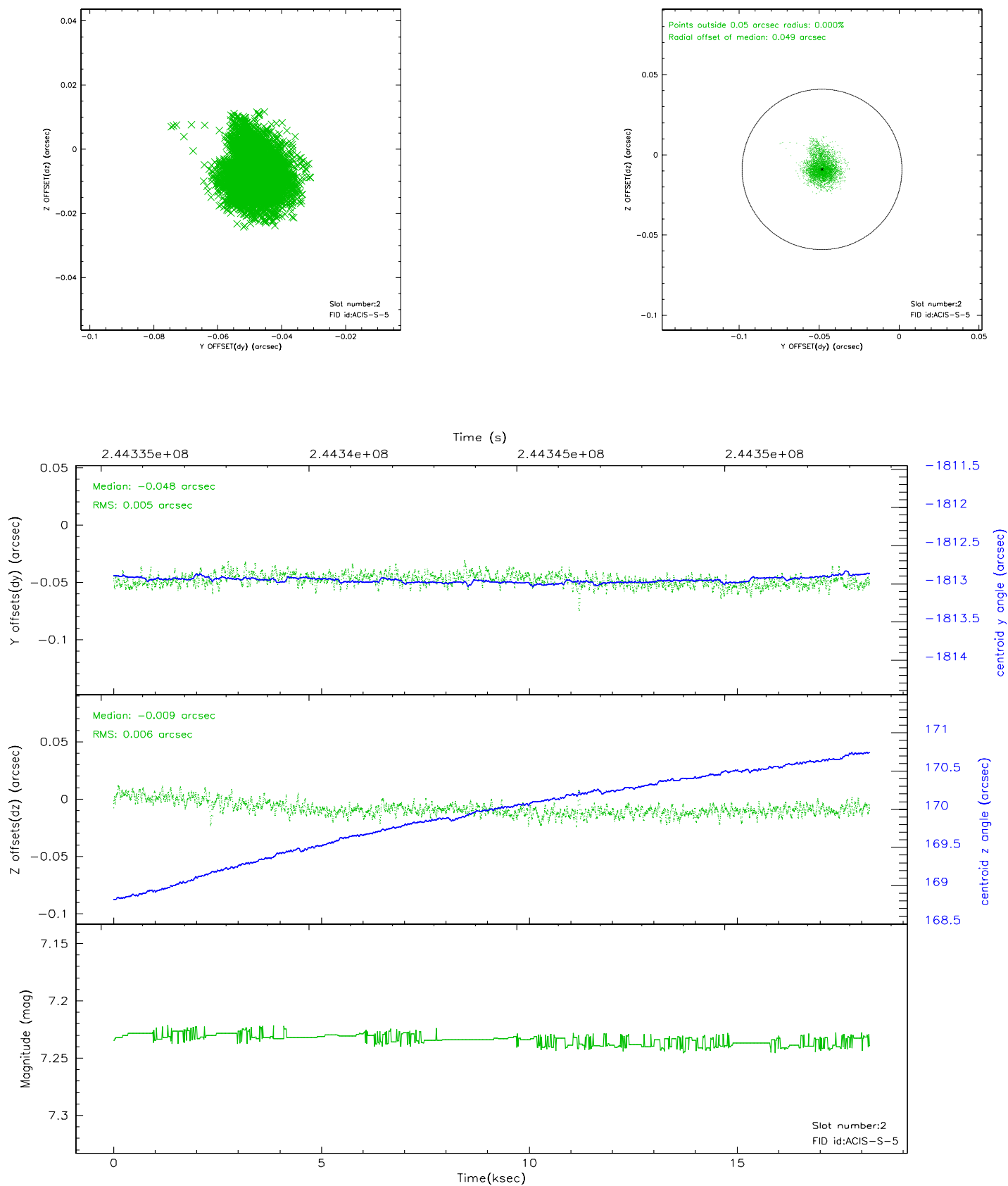
2.5.1 Slot 0



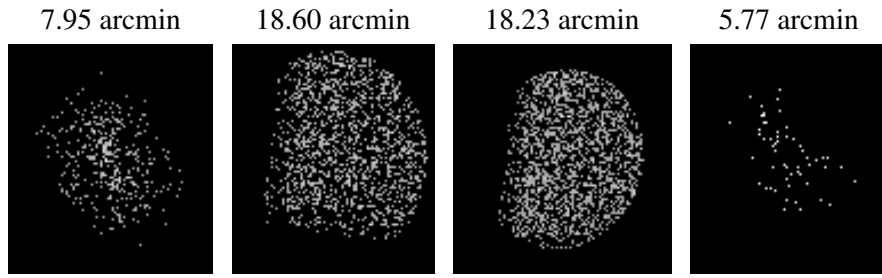
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.18459

A.2 Comments

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. GOs should subtract 1.3 degrees from the reported temperature to determine the true temperature. In addition the FP temperature was not regulating during this period. The FP temperature fluctuated between -121.3 C and -118.8 C during this time. For analysis of line-dominated spectra from the FI CCDs, GOs might notice a systematic gain shift by up to 0.5%, either towards higher/lower energies depending on if the FP temperature was colder/warmer than -119.7 C. Analysis of line-dominated spectra on S3 are mostly unaffected (where mostly unaffected means that the changes are smaller than the current uncertainties in the calibration). Analysis of continuum-dominated spectra on both the FI and BI CCDs are mostly unaffected. Imaging analysis on both the FI and BI CCDs are mostly unaffected.