

# V&V Reference Report

## L2 ASCDS Version : 7.6.8.1

Observation 5353 - L2 Version 002  
Chandra X-Ray Center

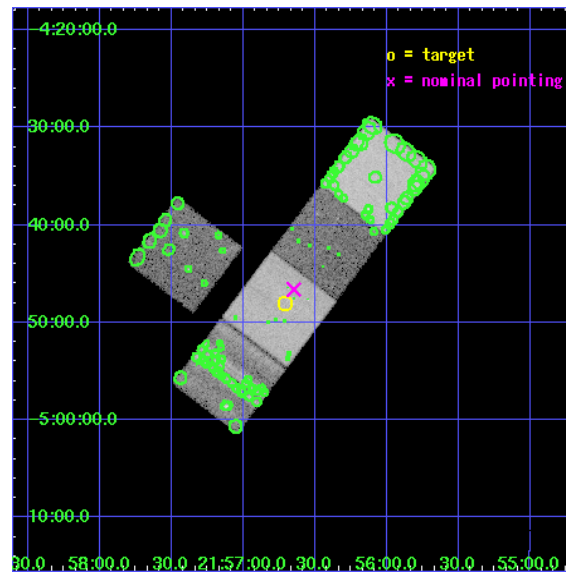
L2 Processing Date : Aug 9 2006

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# 1 Front

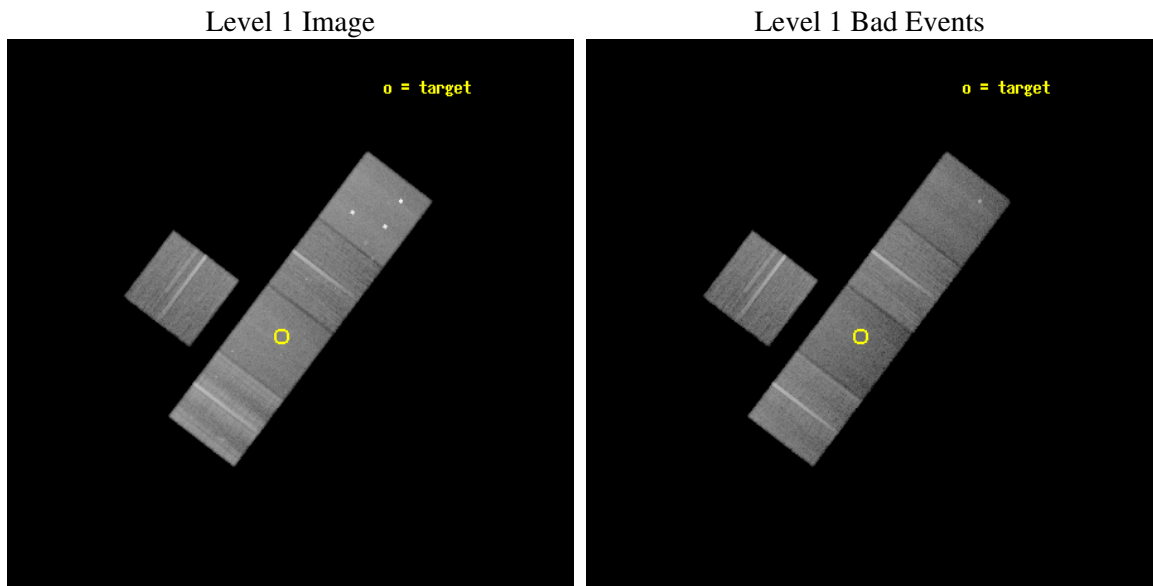
seq_num	800388
obs_id	5353
title	Continuation of a Chandra Survey of a Uniformly Selected Sample of High-Redshift Galaxy Clusters
observer	Professor Gordon Garmire
object	RCS2156.7-0448
dtcycle	0
cycle	P
ra_targ	329.177917
dec_targ	-4.801167
ra_nom	329.16173900728
dec_nom	-4.777002483127
roll_nom	127.15527948173
revision	3
ontime	37041.899928778
livetime	36557.920236359
ontime3	37038.758948535
ontime5	37041.899928778
ontime6	37041.899928778
ontime7	37041.899928778
ontime8	37038.758908749
l2events	309587



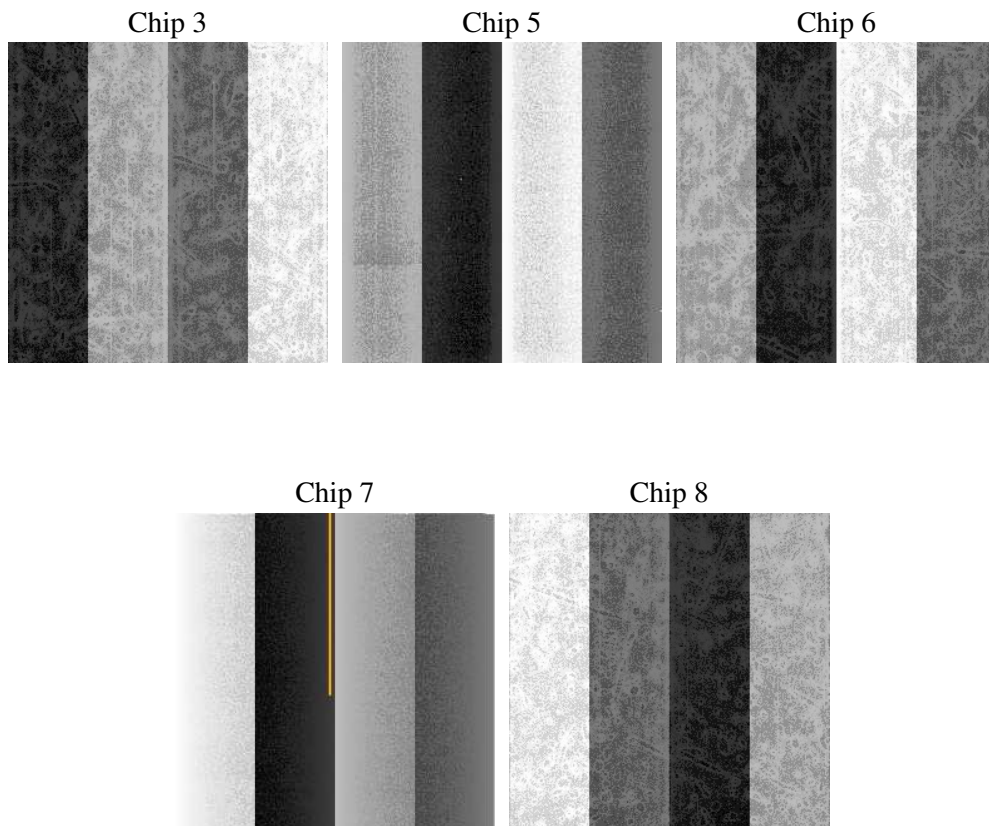
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	4
ascdsver	7.6.8.1
caldbver	3.2.2
date	2006-08-09T00:23:15
revision	3

sched_exp_time	37000.000000
ontime	37045.074997336
ontime3	37041.934017092
ontime5	37045.074997336
ontime6	37045.074997336
ontime7	37045.074997336
ontime8	37041.933977306
l1events	1337653

### 2.1.4 Events

	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	220323	310698	230268	239717	336647
rejected events	199222	154230	206124	138173	222175
rejected %	90%	49%	89%	57%	65%

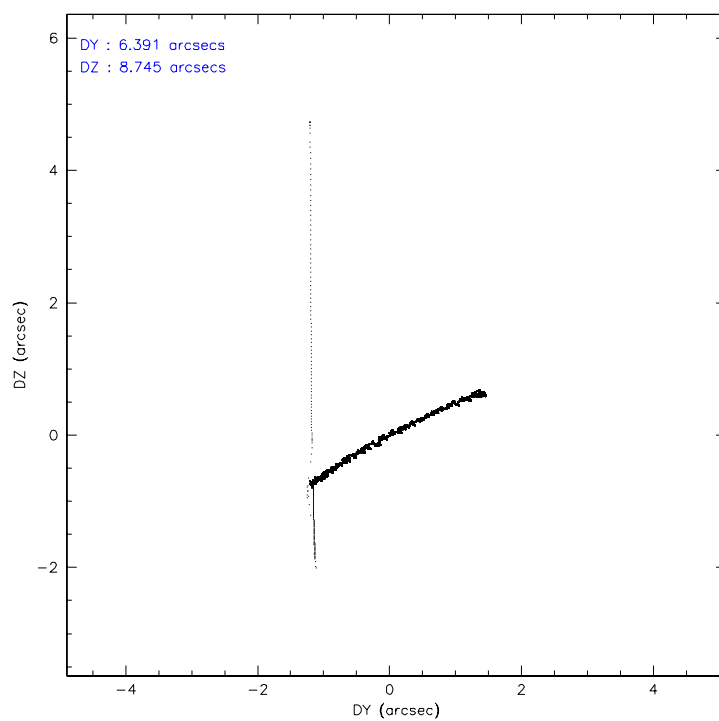
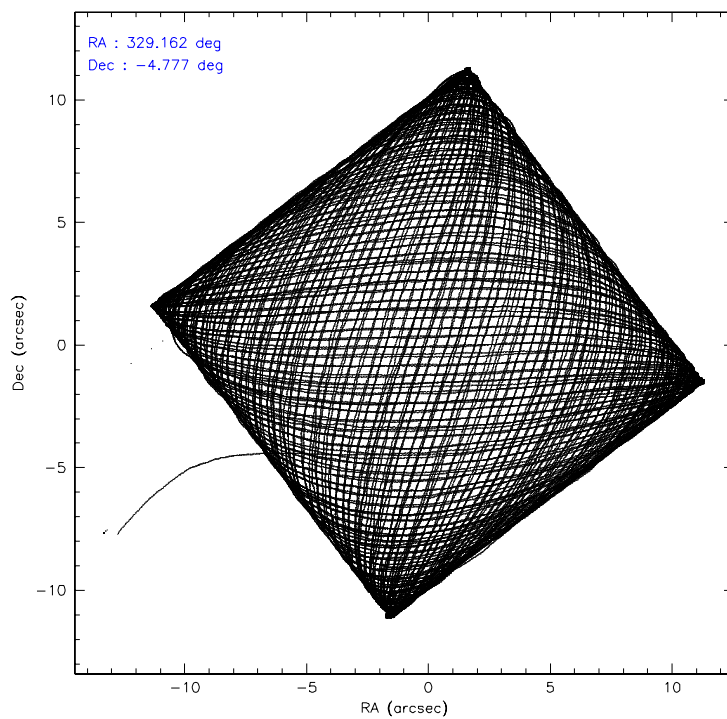
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	7809	22378	9059	6218	36842
	3%	7%	3%	2%	10%
grade 1 events	127	949	103	145	328
	0%	0%	0%	0%	0%
grade 2 events	4583	48411	5357	24960	19684
	2%	15%	2%	10%	5%
grade 3 events	2304	4112	2520	6173	16955
	1%	1%	1%	2%	5%
grade 4 events	2296	3874	2488	6055	15295
	1%	1%	1%	2%	4%
grade 5 events	8568	15848	8667	18455	12660
	3%	5%	3%	7%	3%
grade 6 events	4111	77706	4722	58149	25700
	1%	25%	2%	24%	7%
grade 7 events	190525	137420	197352	119562	209183
	86%	44%	85%	49%	62%

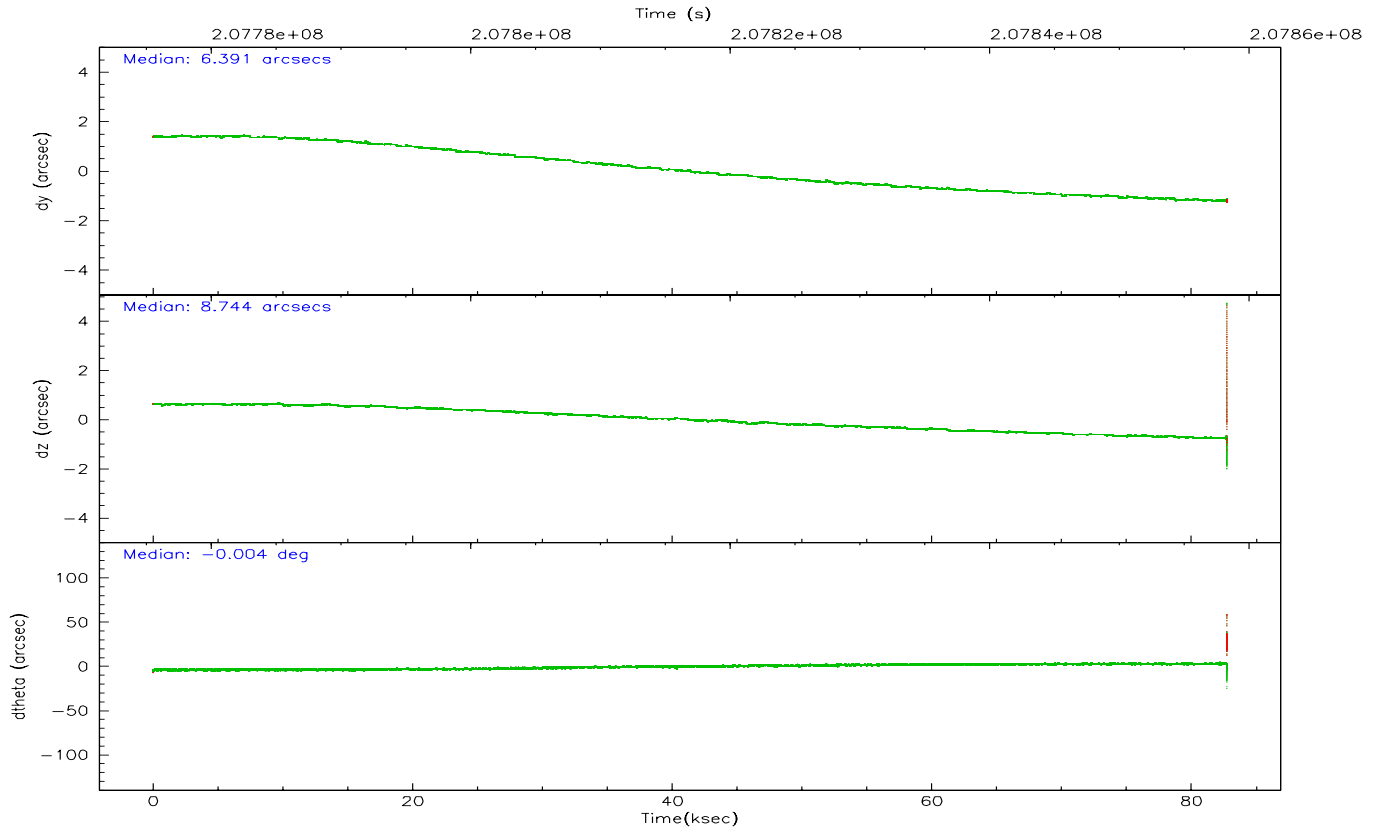
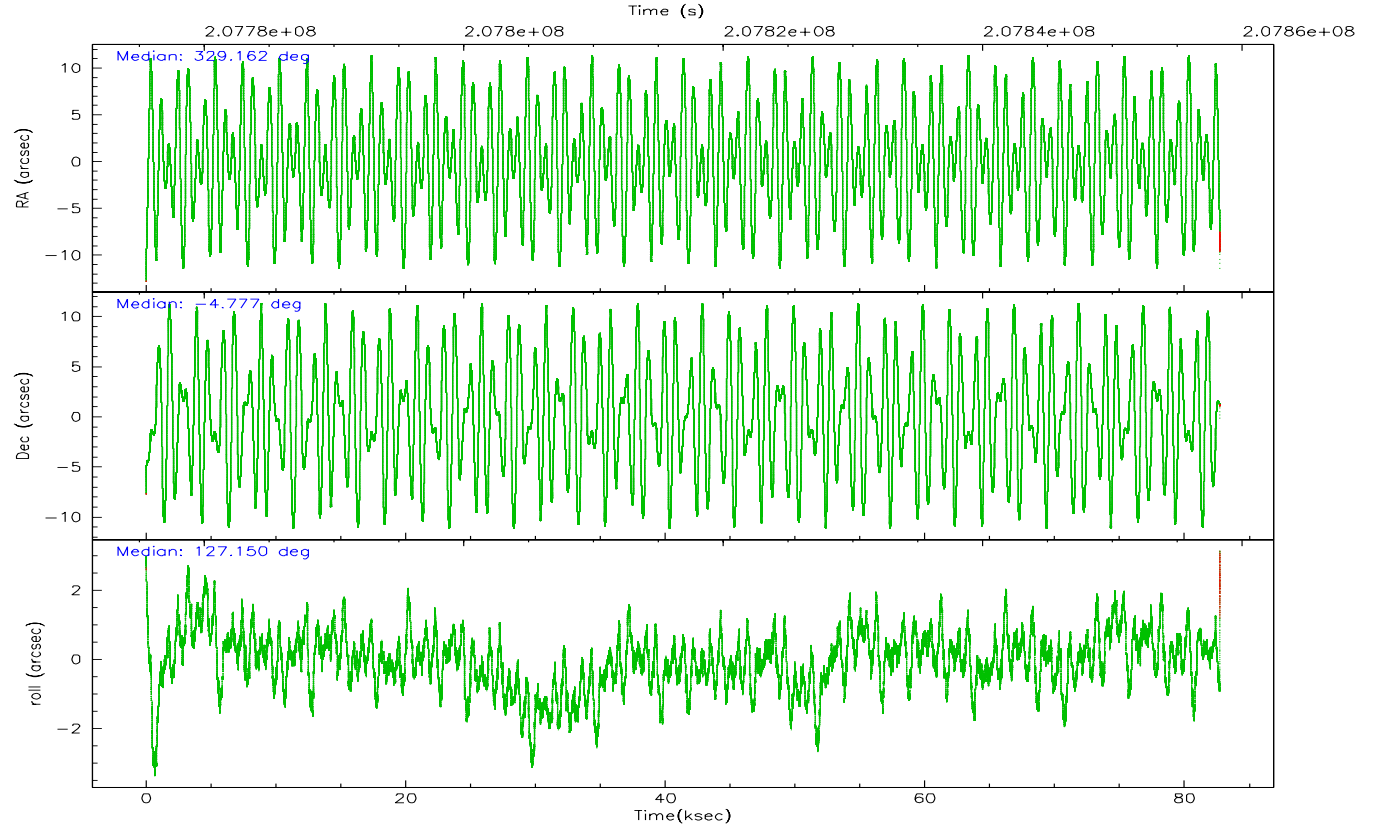


## 2.2 Compared Parameters

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	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	329.187052	329.161739007282	Alternating exposures requested	N	N
Pointing Dec	-4.787218	-4.777002483126976	Primary exposure time	0.000000	3.1
Pointing Roll	127.000762	127.1552794817331			
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	207776087.184000	207774976.62345			
Observation start date	2004-08-01T19:33:43	2004-08-01T19:16:16			
Observation end time	207813087.184000	207858316.30215			
Observation end date	2004-08-02T05:50:23	2004-08-02T18:25:16			
Read mode	TIMED	TIMED			

## 2.3 Aspect



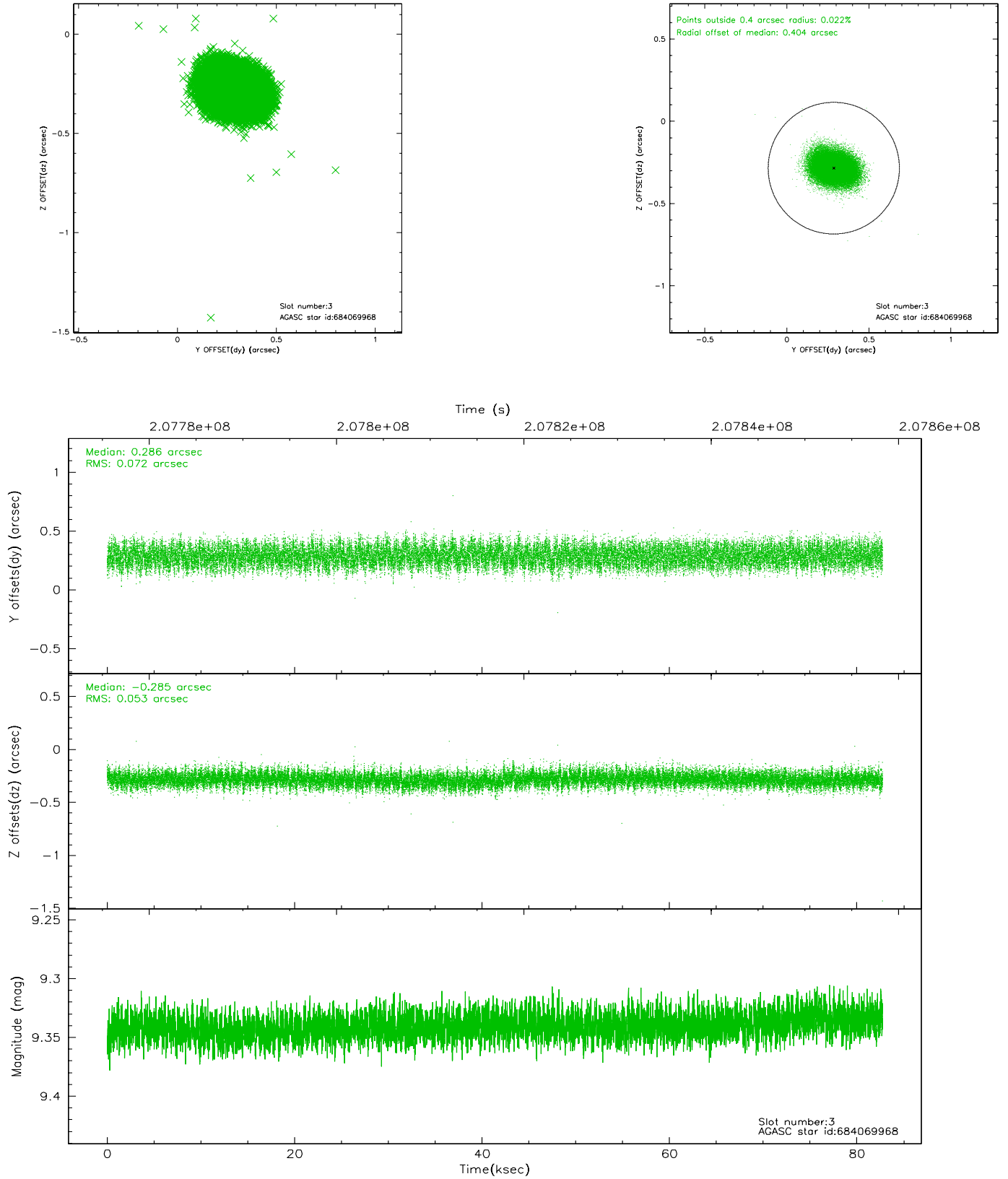


### Slot Statistics

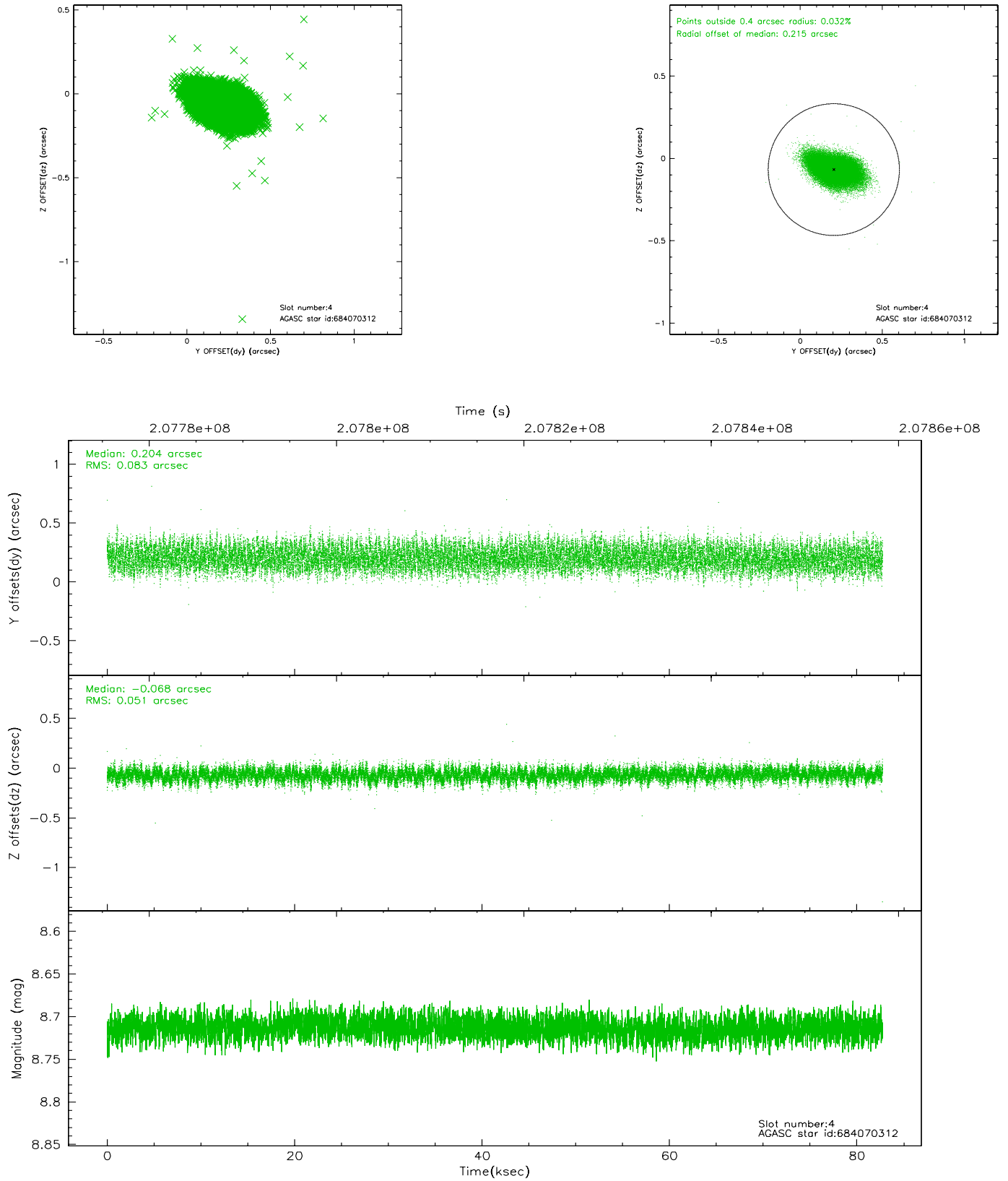
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	20174	-0.045	-0.015	0.011	0.019	0.000000	0.000000	-759.27	-1729.97
1	FID	ACIS-S-4	7.20	20175	0.027	0.034	0.014	0.020	0.000000	0.000000	2154.12	178.63
2	FID	ACIS-S-6	7.35	20175	-0.010	-0.013	0.017	0.024	0.000000	0.000000	402.66	815.90
3	GUIDE	684069968	9.34	40339	0.286	-0.285	0.095	0.152	329.097555	-5.451643	-1716.93	1695.68
4	GUIDE	684070312	8.71	40348	0.204	-0.068	0.102	0.171	329.324094	-3.892917	2275.38	-2330.23
5	GUIDE	684071968	8.45	40353	-0.179	0.147	0.064	0.103	328.900116	-4.224267	2238.48	-396.16
6	GUIDE	684072808	8.97	40340	-0.436	0.242	0.070	0.112	329.745506	-5.111641	-2138.62	-895.43
7	GUIDE	684072952	8.58	40354	0.120	-0.032	0.085	0.132	329.874004	-4.607653	-967.83	-2356.83

## 2.4 Star Slots

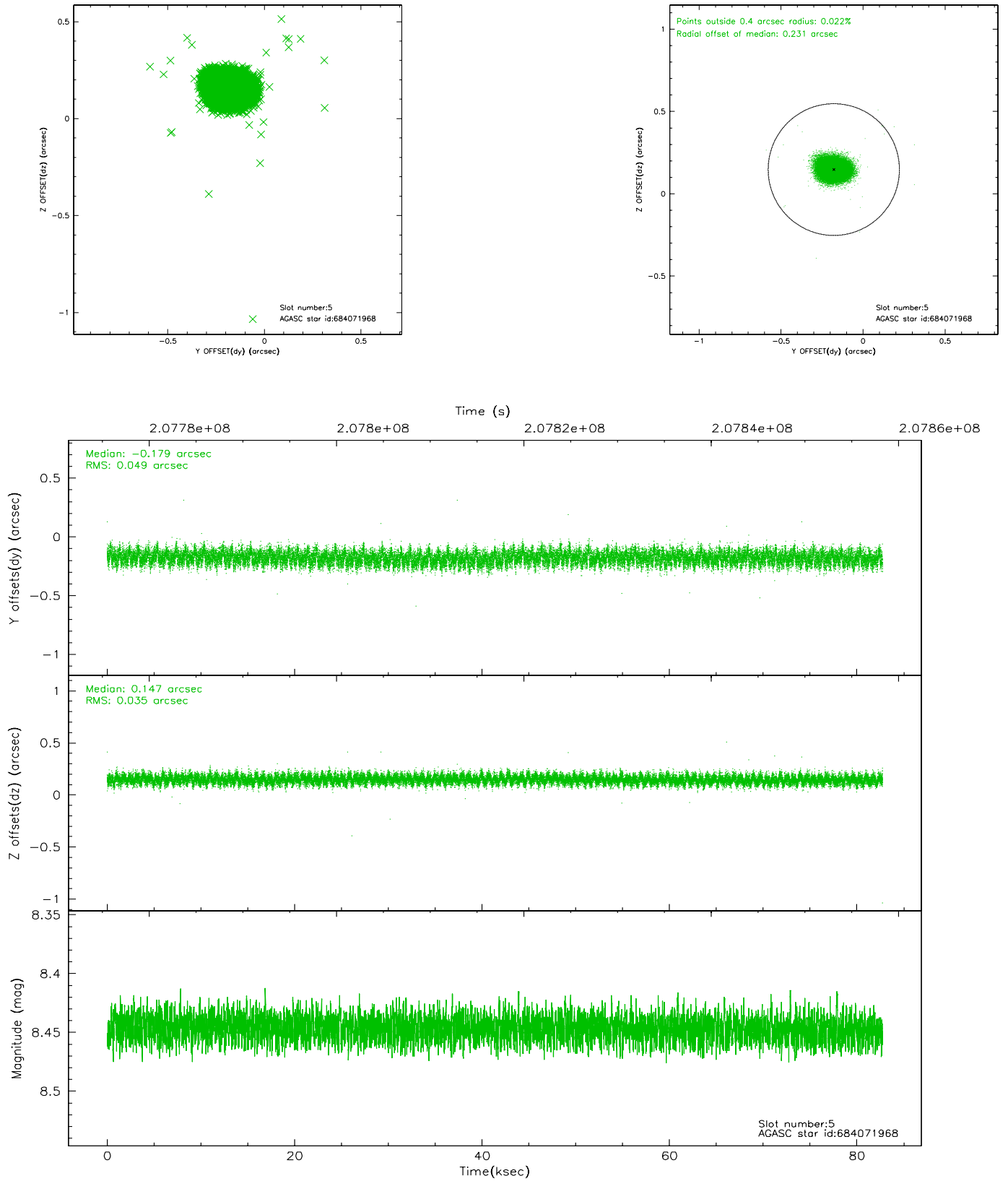
### 2.4.1 Slot 3



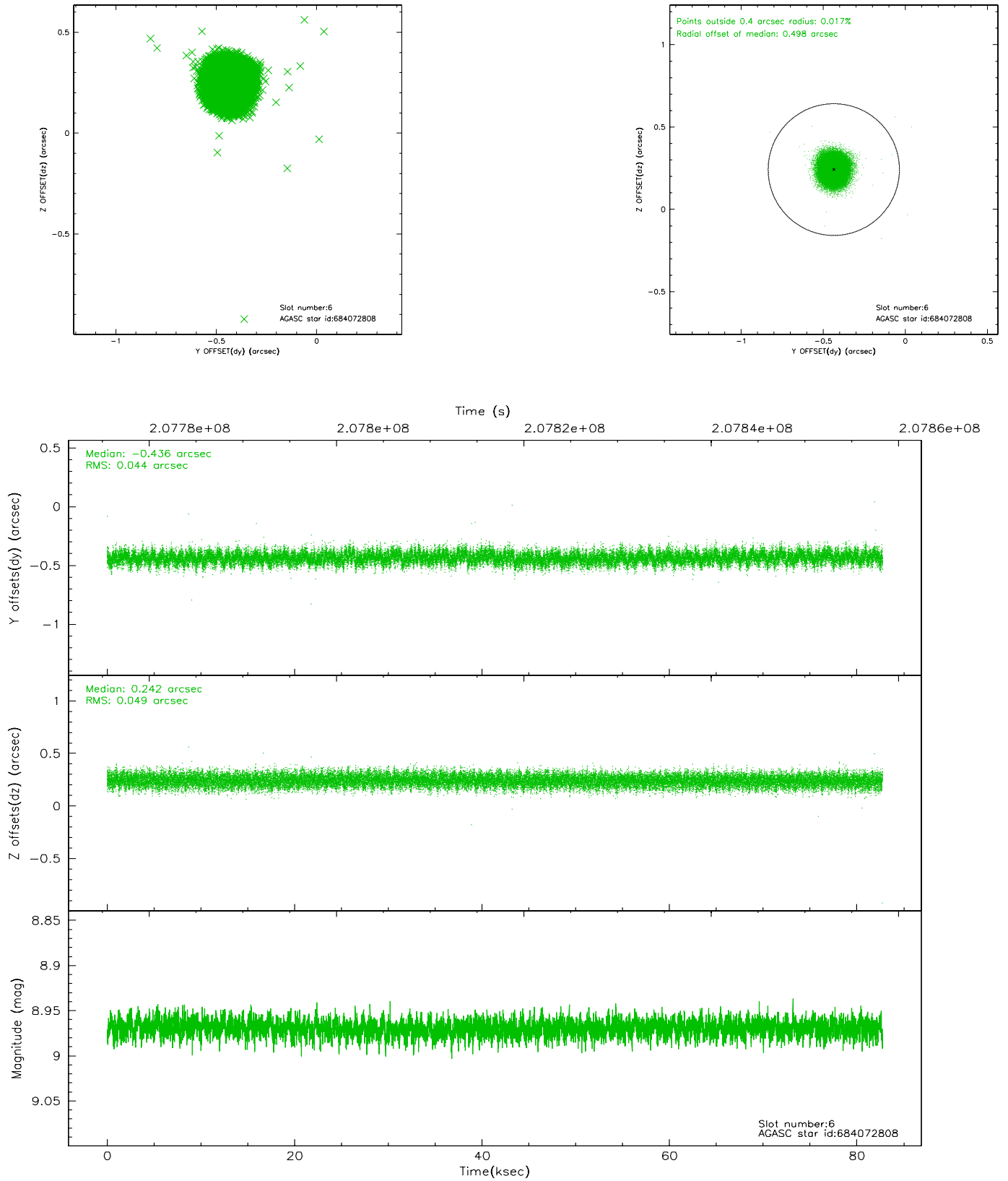
## 2.4.2 Slot 4



### 2.4.3 Slot 5

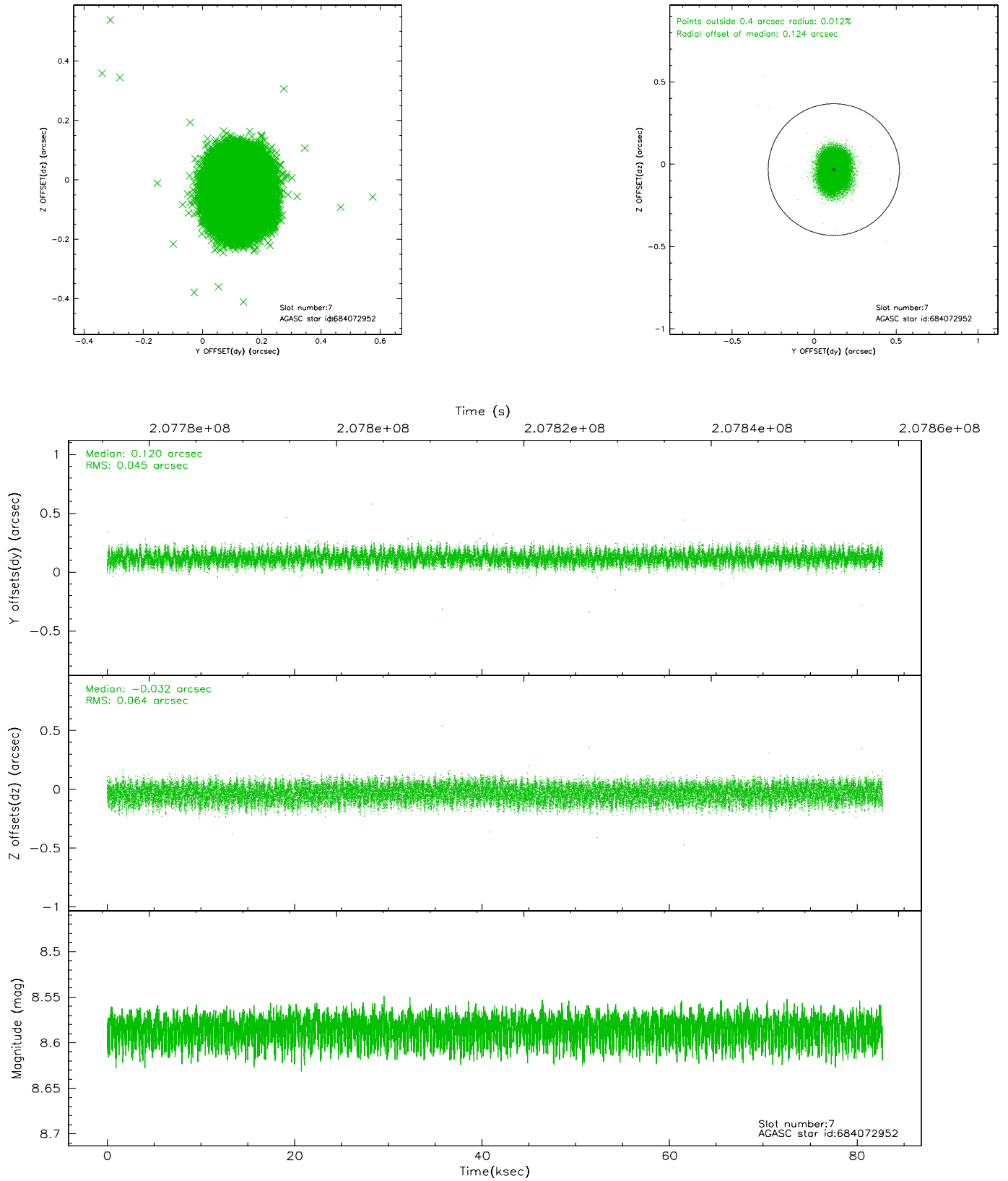


## 2.4.4 Slot 6



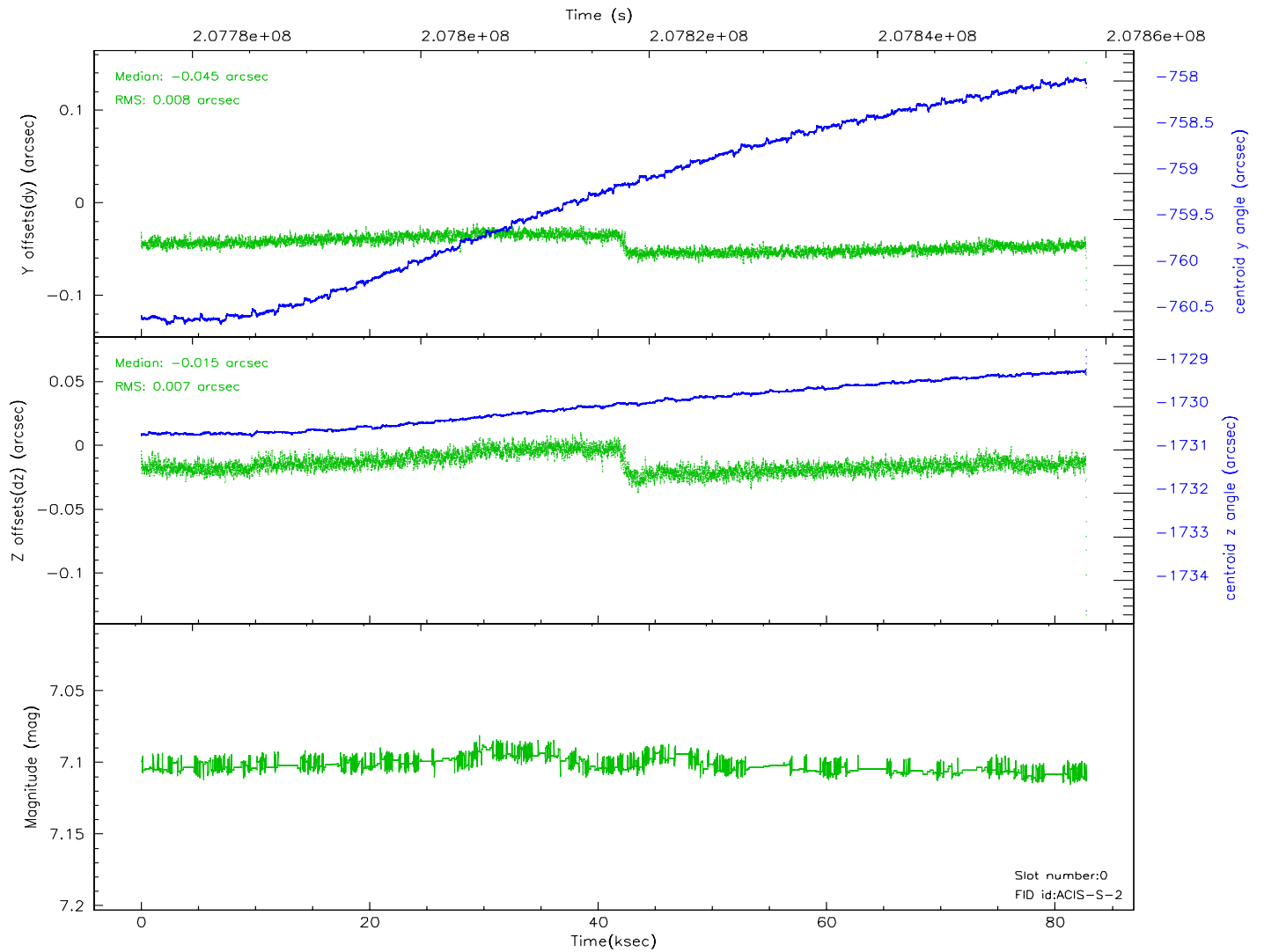
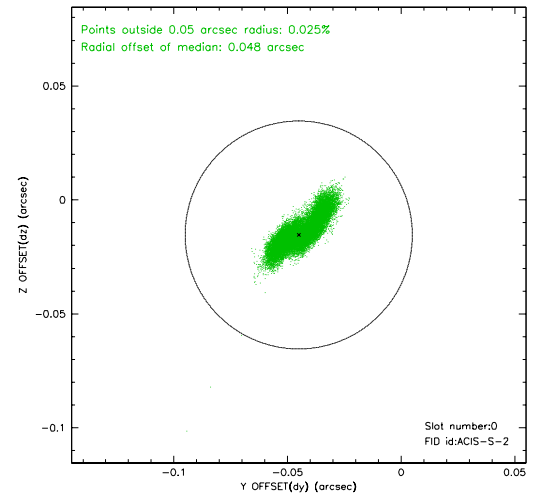
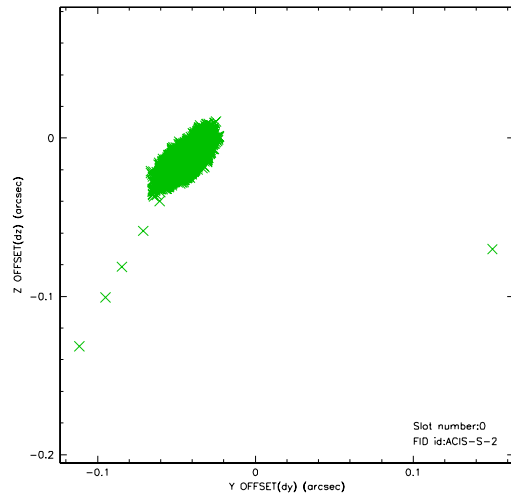


## 2.4.5 Slot 7

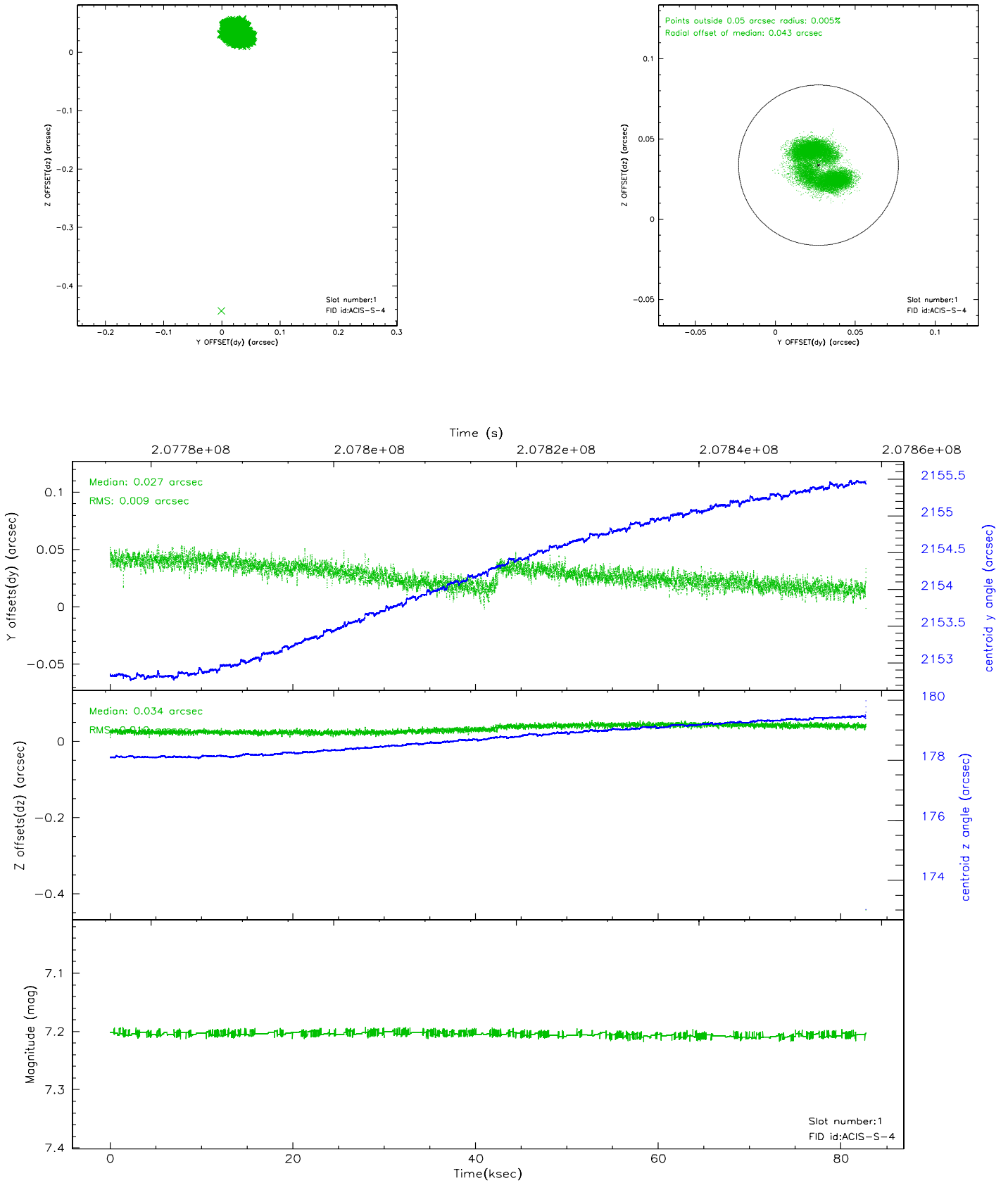


## 2.5 FID Slots

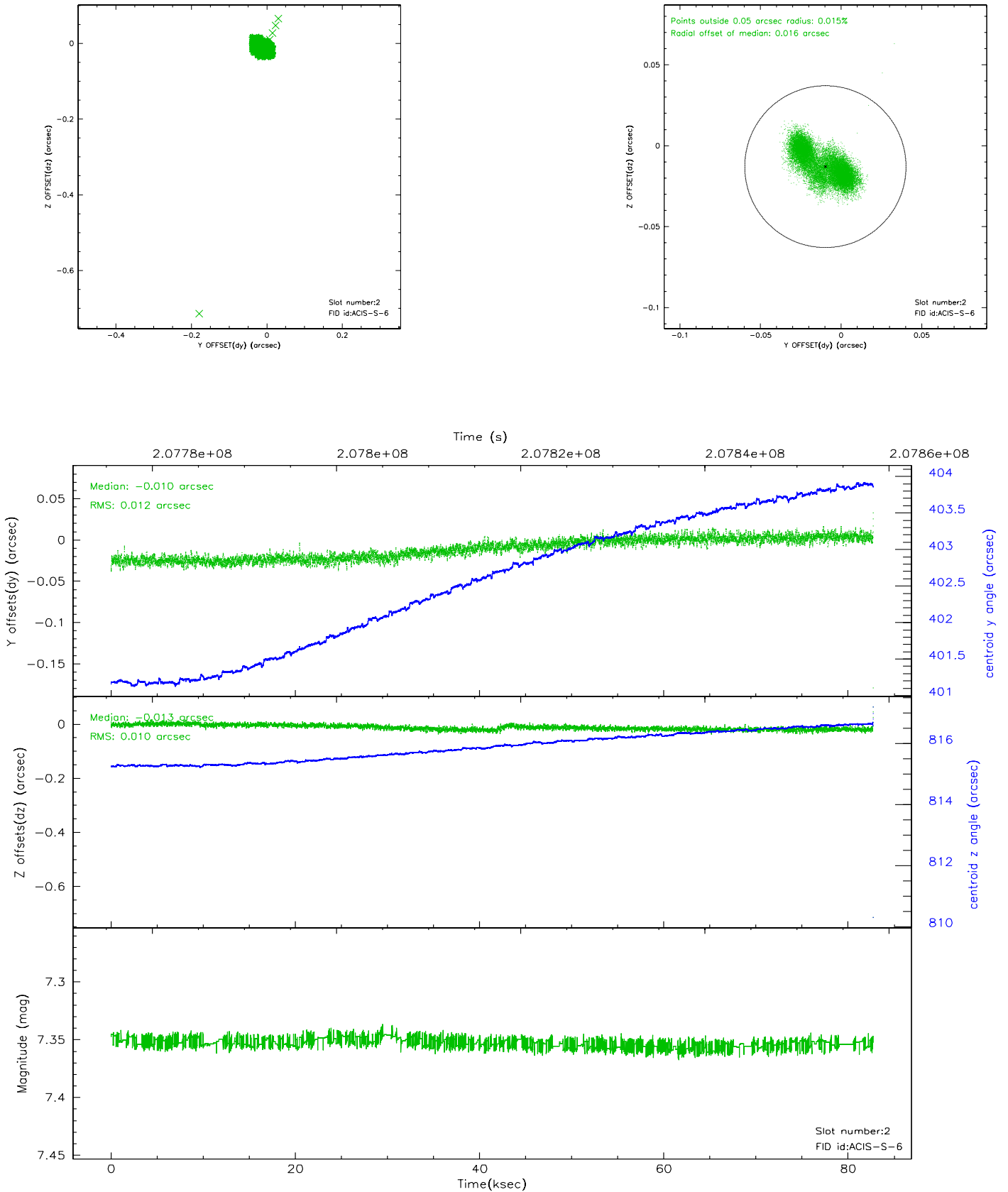
### 2.5.1 Slot 0



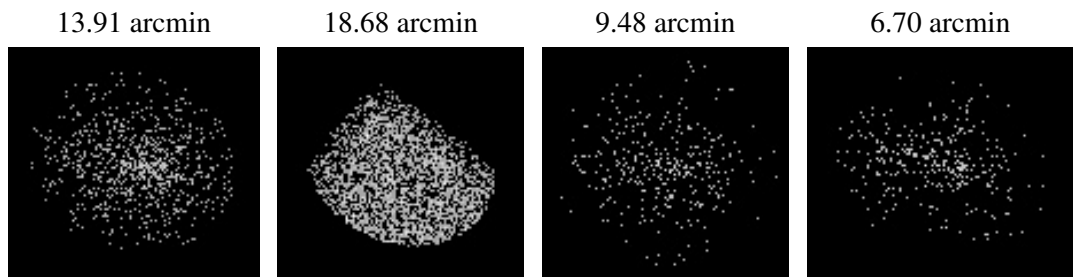
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.08.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.041

## A.2 Comments

There was a manual trip of SCS 107 at 2004:215:18:21, the very end of this observation. It appears that all the data was received. In this version of the software, a few seconds of data are inadvertently included at the end of the observation after the spacecraft and its components began to move. Therefore, the aspect solution is not entirely correct. Software will be modified to correct this situation as soon as feasible. The aspect solution can be corrected in CIAO by removing data from the end of the `*asol.fits` file that has a timestamp equal to or later than the above interruption time. The Level 1 event file can be recreated using CIAO and the edited `*asol.fits` file.