

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 1965 - L2 Version 001  
Chandra X-Ray Center

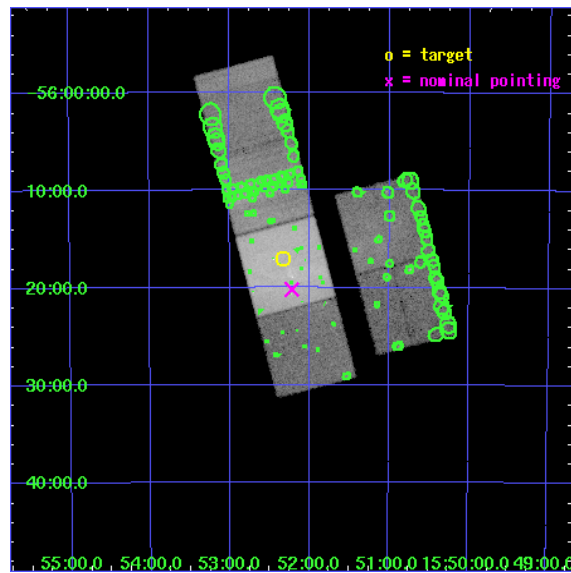
L2 Processing Date : Dec 21 2006

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# 1 Front

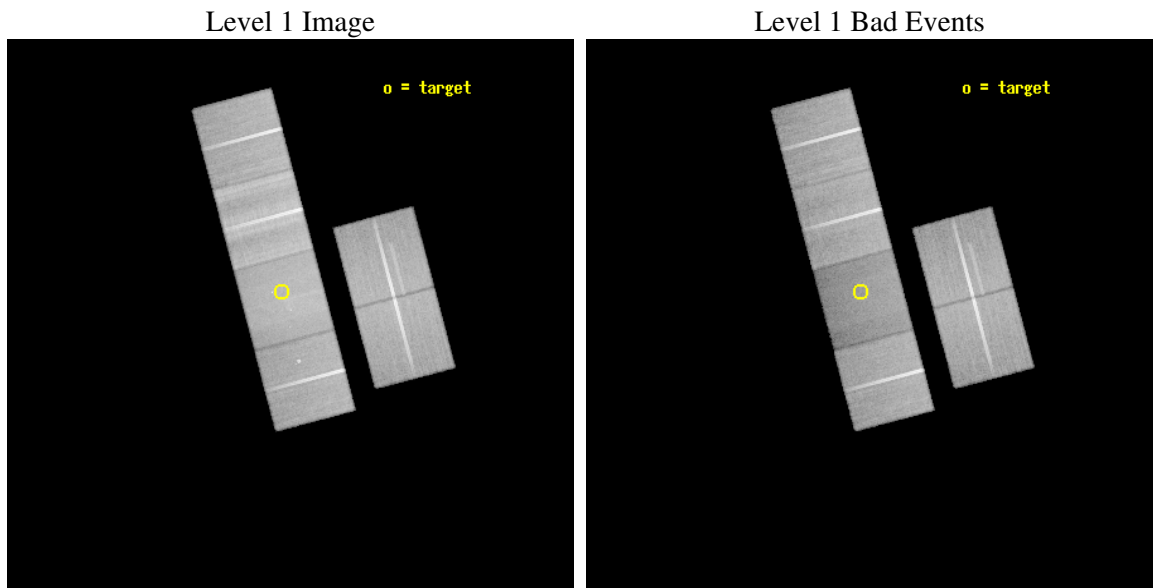
seq_num	500142
obs_id	1965
title	THE SYNCHROTRON NEBULA IN MSH15-56
observer	Dr. Paul Plucinsky
object	MSH15-56
dtcycle	0
cycle	P
ra_targ	238.083333
dec_targ	-56.285
ra_nom	238.05509720022
dec_nom	-56.336808490532
roll_nom	255.1331340739
revision	2
ontime	56844.800052941
livetime	56124.996966841
ontime2	56835.077182174
ontime3	56831.836211192
ontime6	56844.800052941
ontime7	56844.800052941
ontime8	56844.800052941
ontime9	56844.800052941
l2events	462573



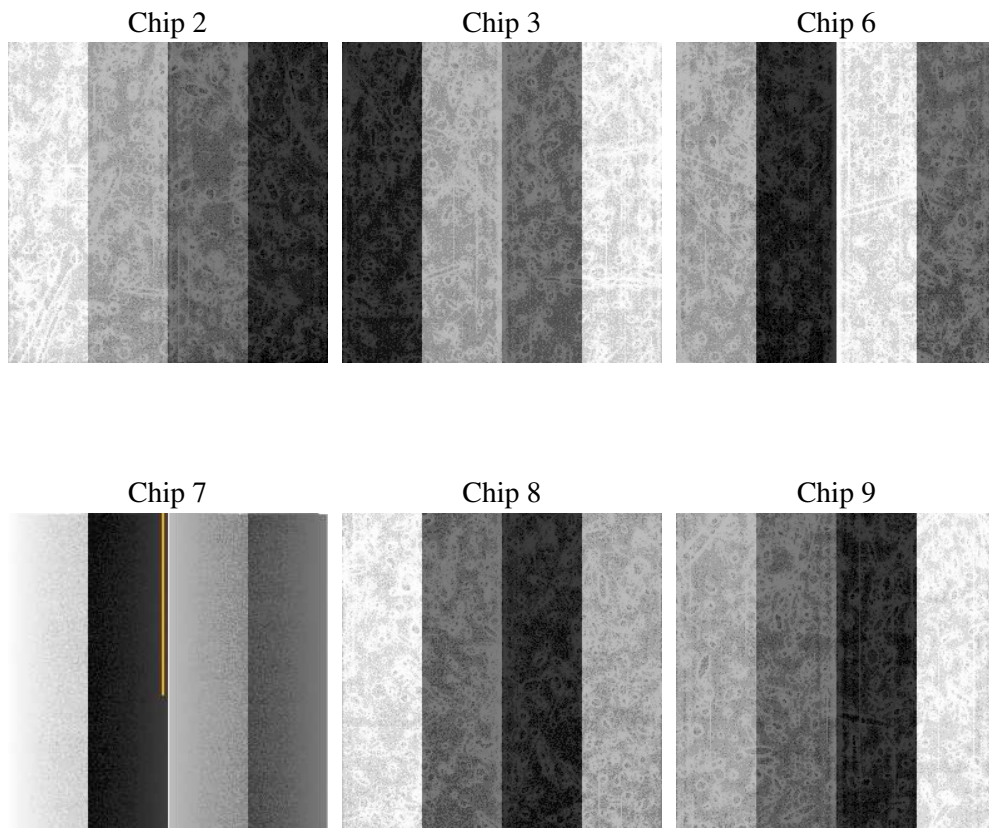
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldsver	3.2.4
date	2006-12-21T18:20:47
revision	2

sched_exp_time	56901.326000
ontime	56850.334191352
ontime2	56840.611320585
ontime3	56837.370350331
ontime6	56850.334161445
ontime7	56850.334191352
ontime8	56850.334191352
ontime9	56850.334191352
l1events	2413289

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	370579	373426	368049	411401	510801	379033
rejected events	330729	325146	321340	189602	338569	319606
rejected %	89%	87%	87%	46%	66%	84%

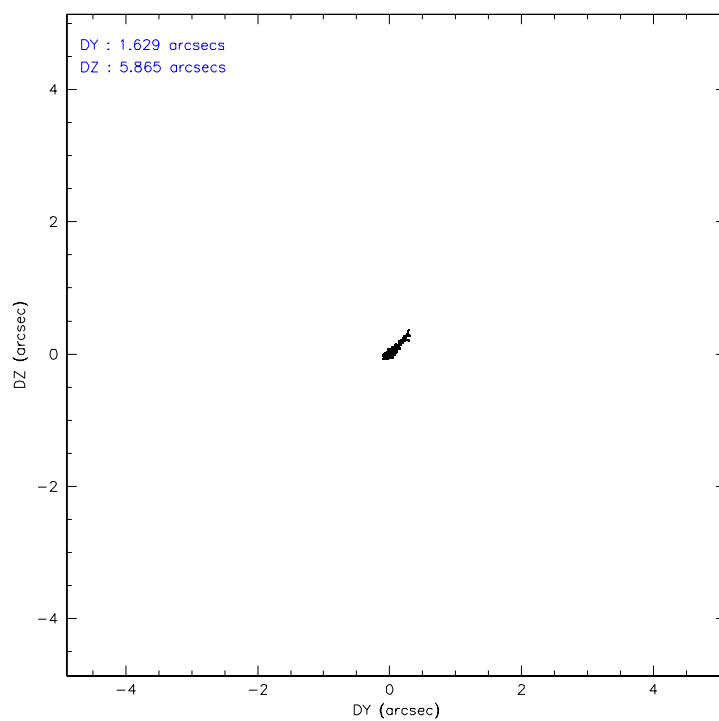
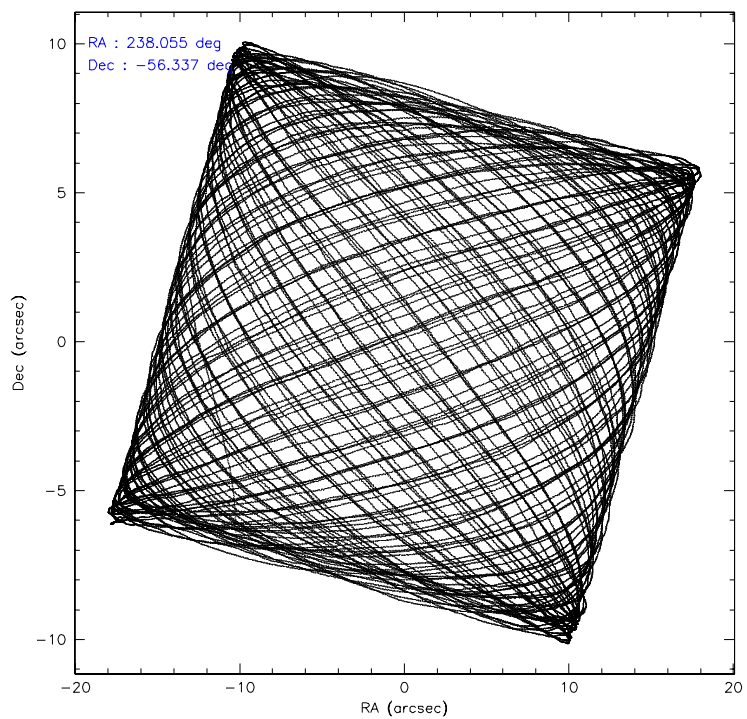
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	17804	26284	22734	26861	75002	32178
	4%	7%	6%	6%	14%	8%
grade 1 events	182	203	211	192	537	242
	0%	0%	0%	0%	0%	0%
grade 2 events	8132	7730	8228	58414	27096	10146
	2%	2%	2%	14%	5%	2%
grade 3 events	3715	3999	4065	16839	20617	4499
	1%	1%	1%	4%	4%	1%
grade 4 events	3745	3938	4181	16513	18942	4374
	1%	1%	1%	4%	3%	1%
grade 5 events	8893	10432	11191	25505	16041	12315
	2%	2%	3%	6%	3%	3%
grade 6 events	6455	6329	7503	103183	30586	8233
	1%	1%	2%	25%	5%	2%
grade 7 events	321653	314511	309936	163894	321980	307046
	86%	84%	84%	39%	63%	81%

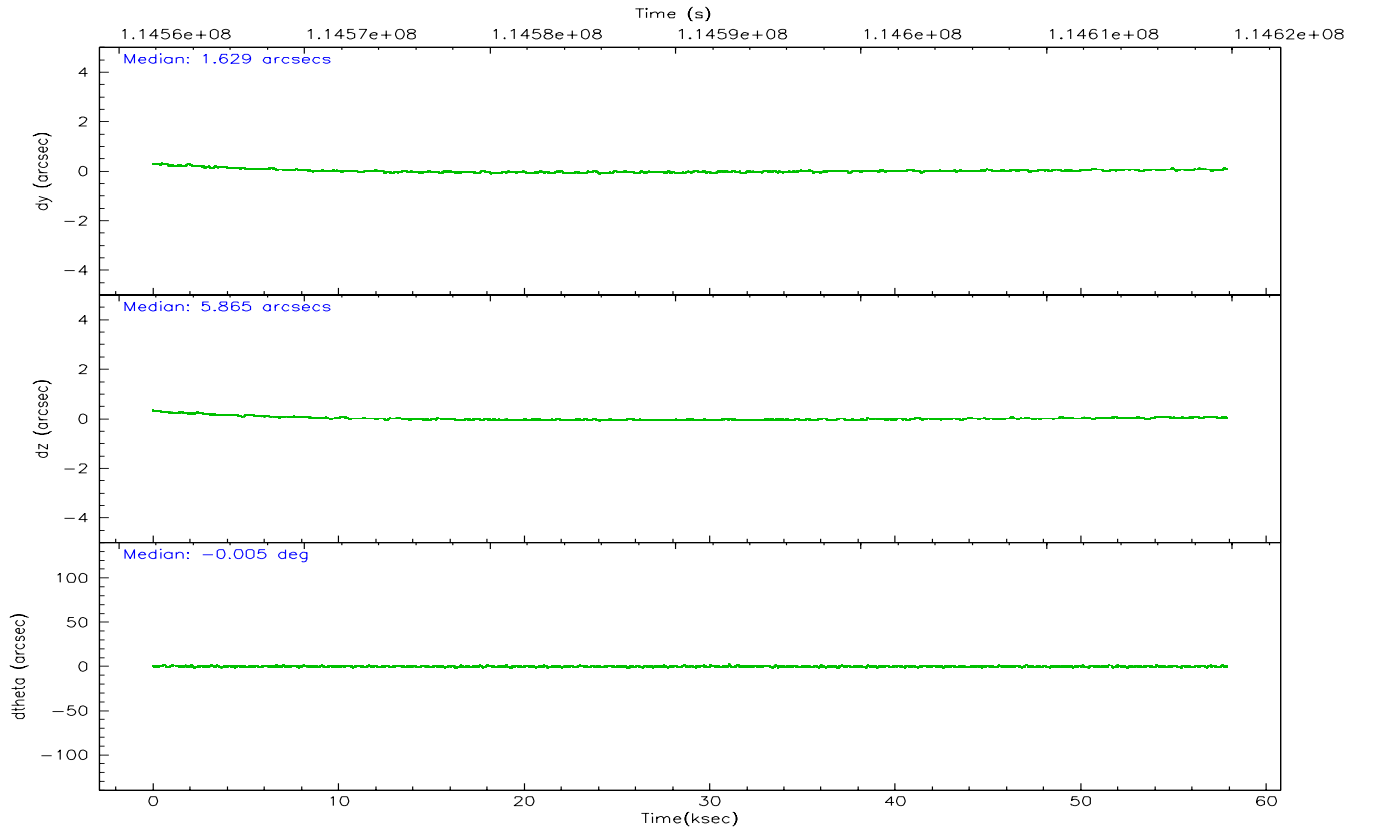
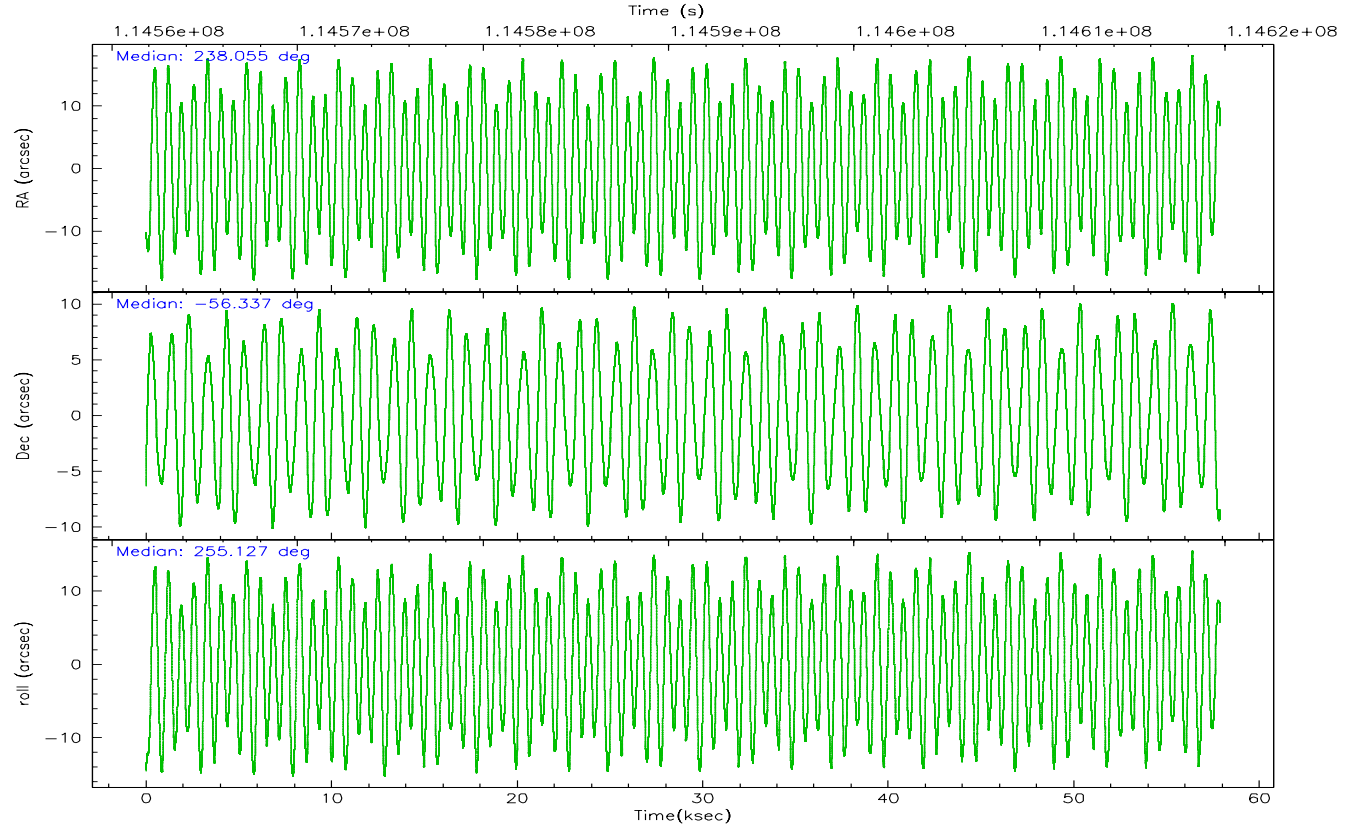


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-236789	ACIS-236789	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	238.041747	238.0550972002231	Subarray requested	NONE	NONE
Pointing Dec	-56.310568	-56.33680849053248	Alternating exposures requested	N	N
Pointing Roll	254.965405	255.1331340739019	Primary exposure time	0.000000	3.2
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	114562830.184000	114561466.56011			
Observation start date	2001-08-18T22:59:26	2001-08-18T22:37:46			
Observation end time	114619732.184000	114620198.54993			
Observation end date	2001-08-19T14:47:48	2001-08-19T14:56:38			
Read mode	TIMED	TIMED			

## 2.3 Aspect



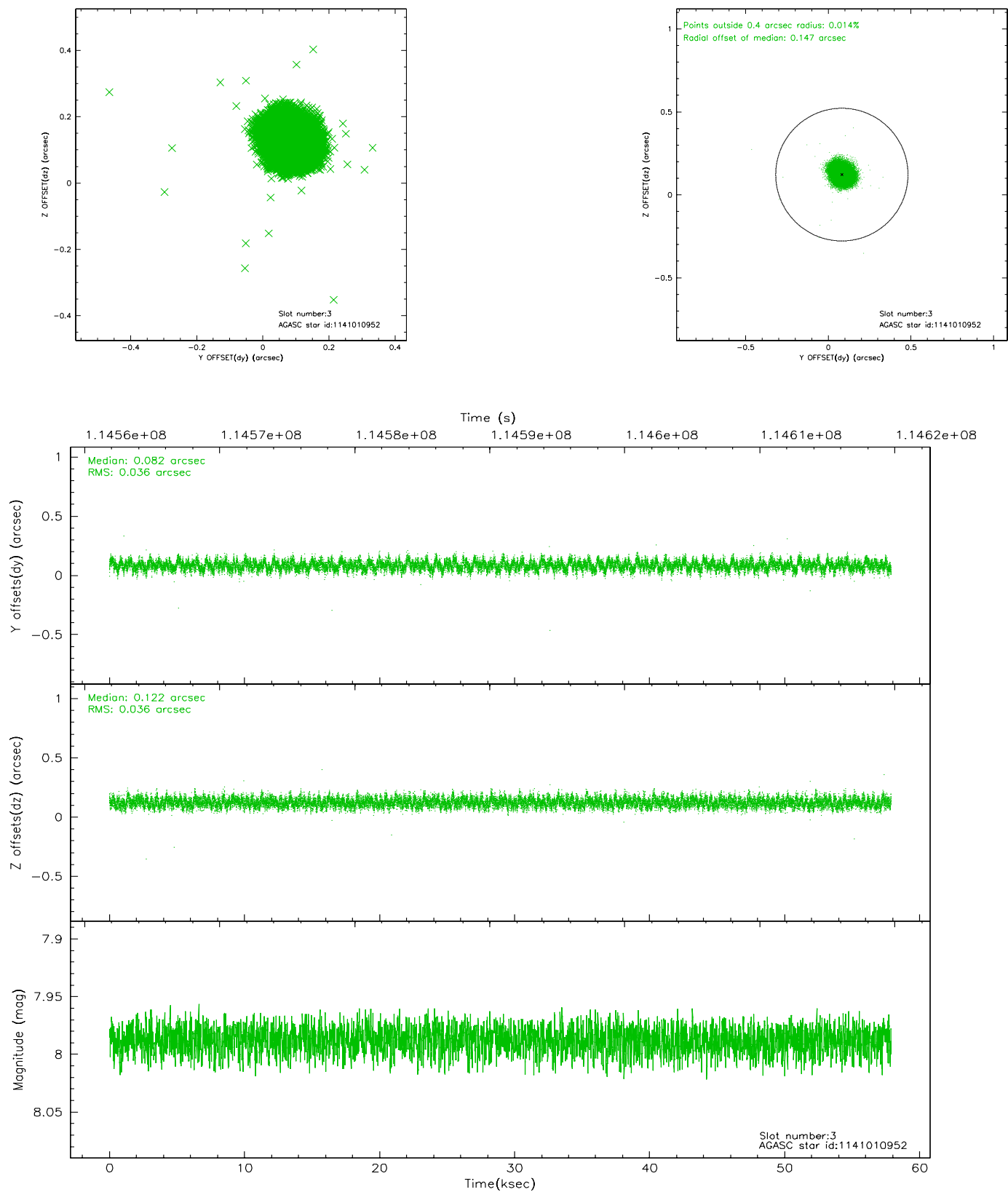


### Slot Statistics

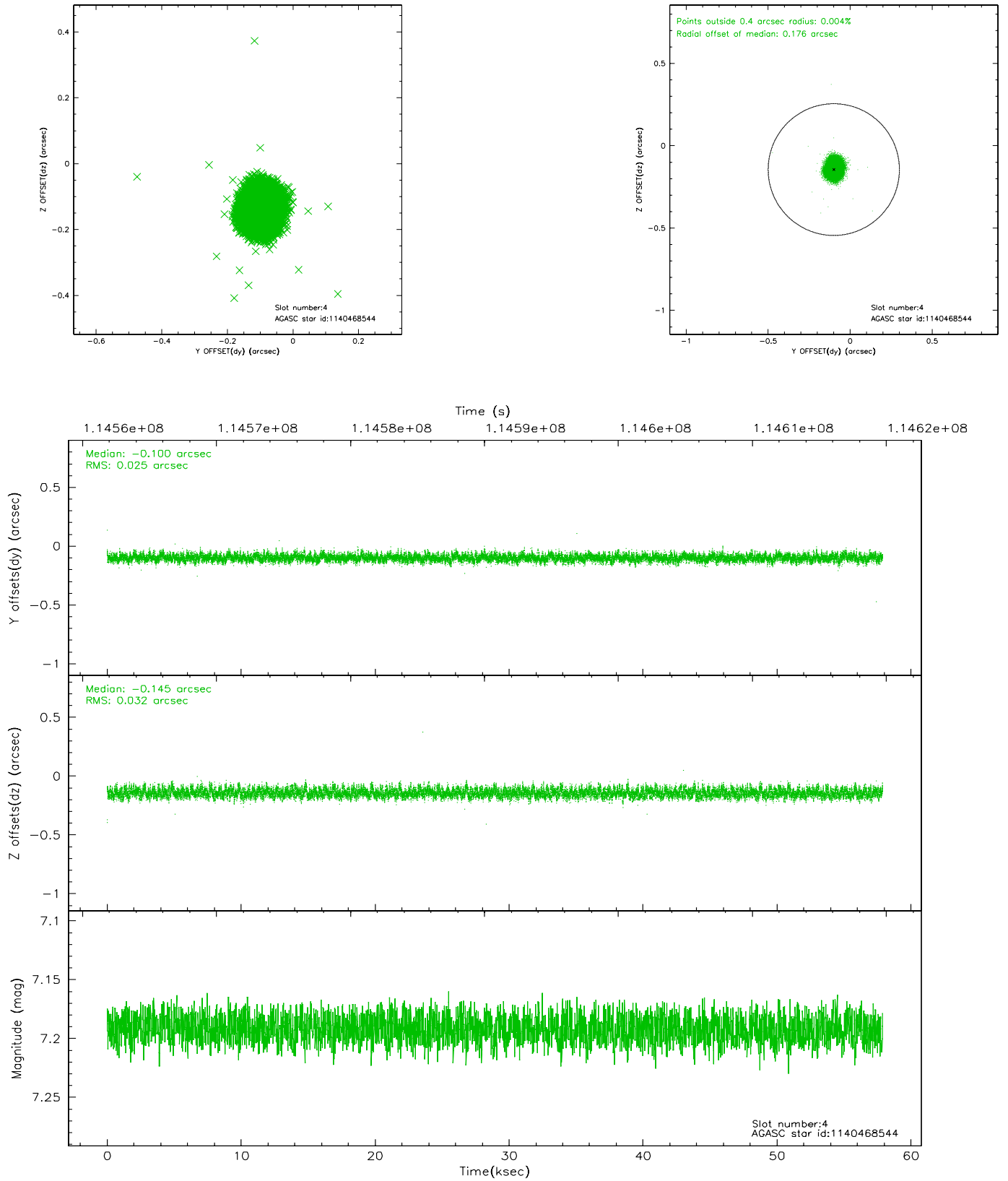
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	14119	-0.029	0.016	0.011	0.017	0.000000	0.000000	-754.24	-1726.97
1	FID	ACIS-S-4	7.20	14118	-0.069	0.010	0.008	0.016	0.000000	0.000000	2158.97	181.61
2	FID	ACIS-S-5	7.23	14118	0.067	-0.017	0.013	0.023	0.000000	0.000000	-1807.08	175.13
3	GUIDE	1141010952	7.99	28237	0.082	0.122	0.054	0.086	238.848370	-56.997192	1986.22	2171.97
4	GUIDE	1140468544	7.19	28238	-0.100	-0.145	0.043	0.070	237.524626	-55.920475	-1081.54	-1370.46
5	GUIDE	1140999568	8.34	28236	0.082	0.066	0.060	0.097	238.959271	-56.938917	1728.96	2330.81
6	GUIDE	1140999968	7.95	28231	-0.098	0.067	0.057	0.093	238.471952	-56.275988	-340.46	799.34
7	GUIDE	1141004216	8.13	28232	0.035	-0.111	0.058	0.094	237.245988	-56.471011	977.59	-1375.53

## 2.4 Star Slots

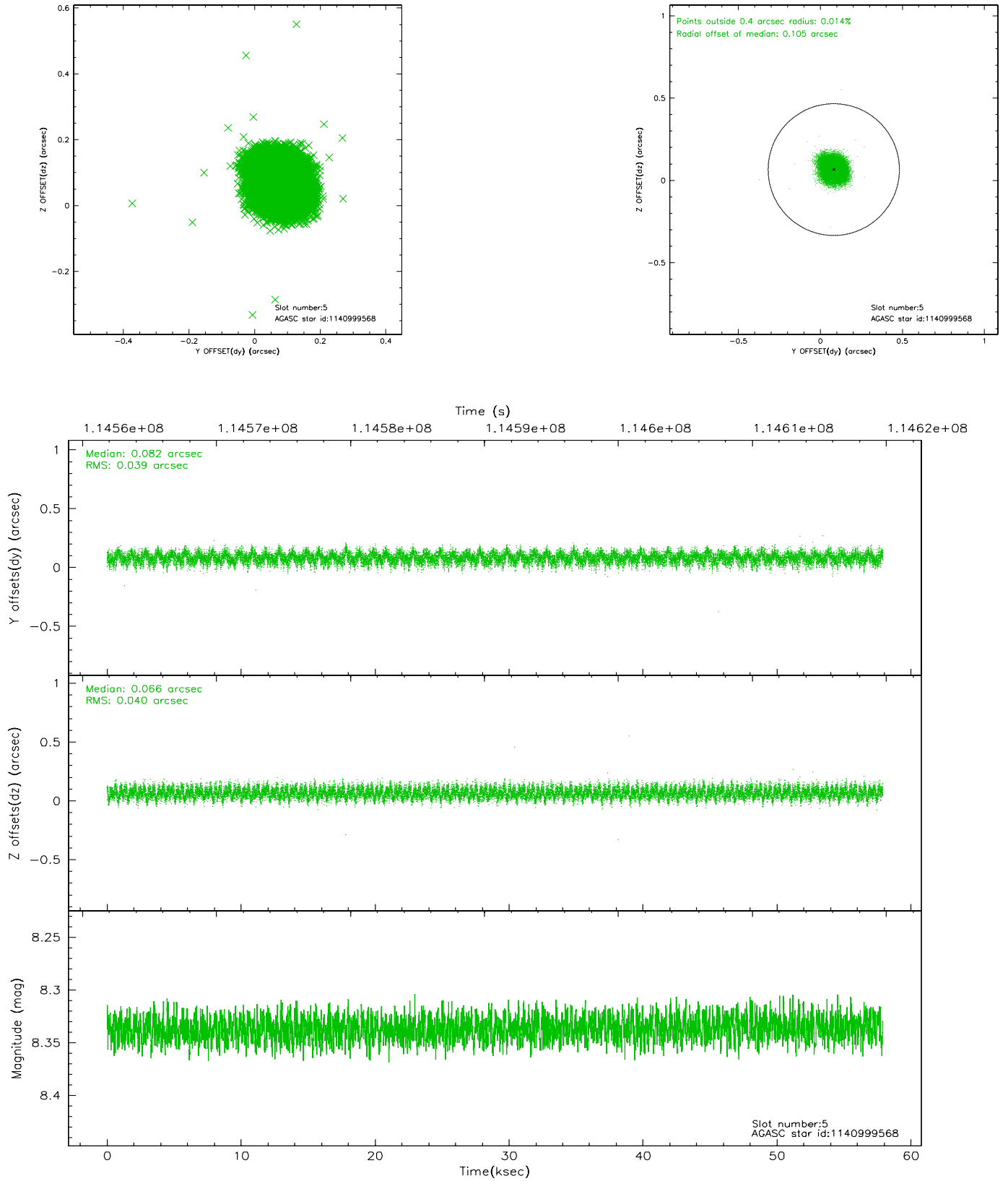
### 2.4.1 Slot 3



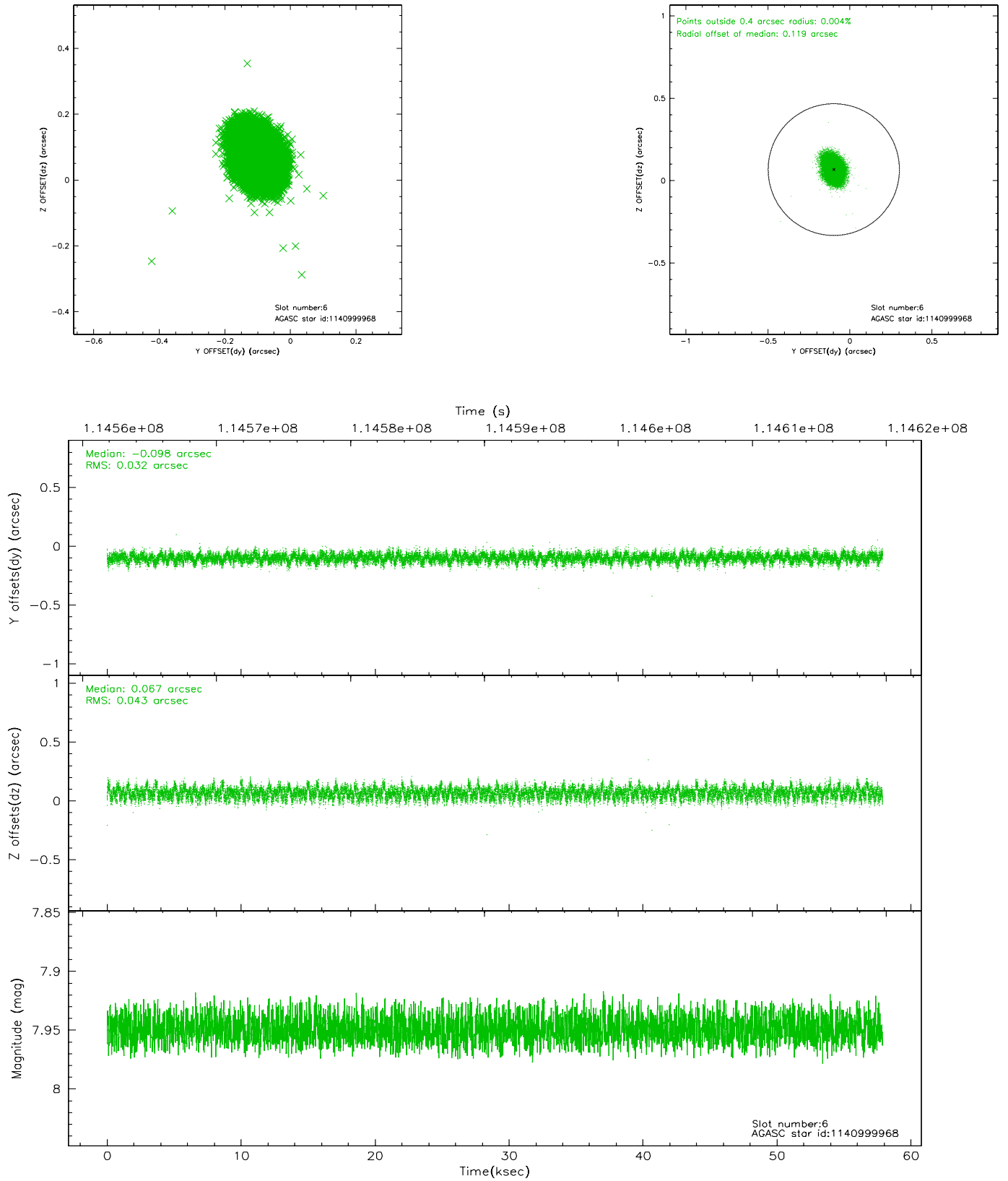
## 2.4.2 Slot 4



### 2.4.3 Slot 5

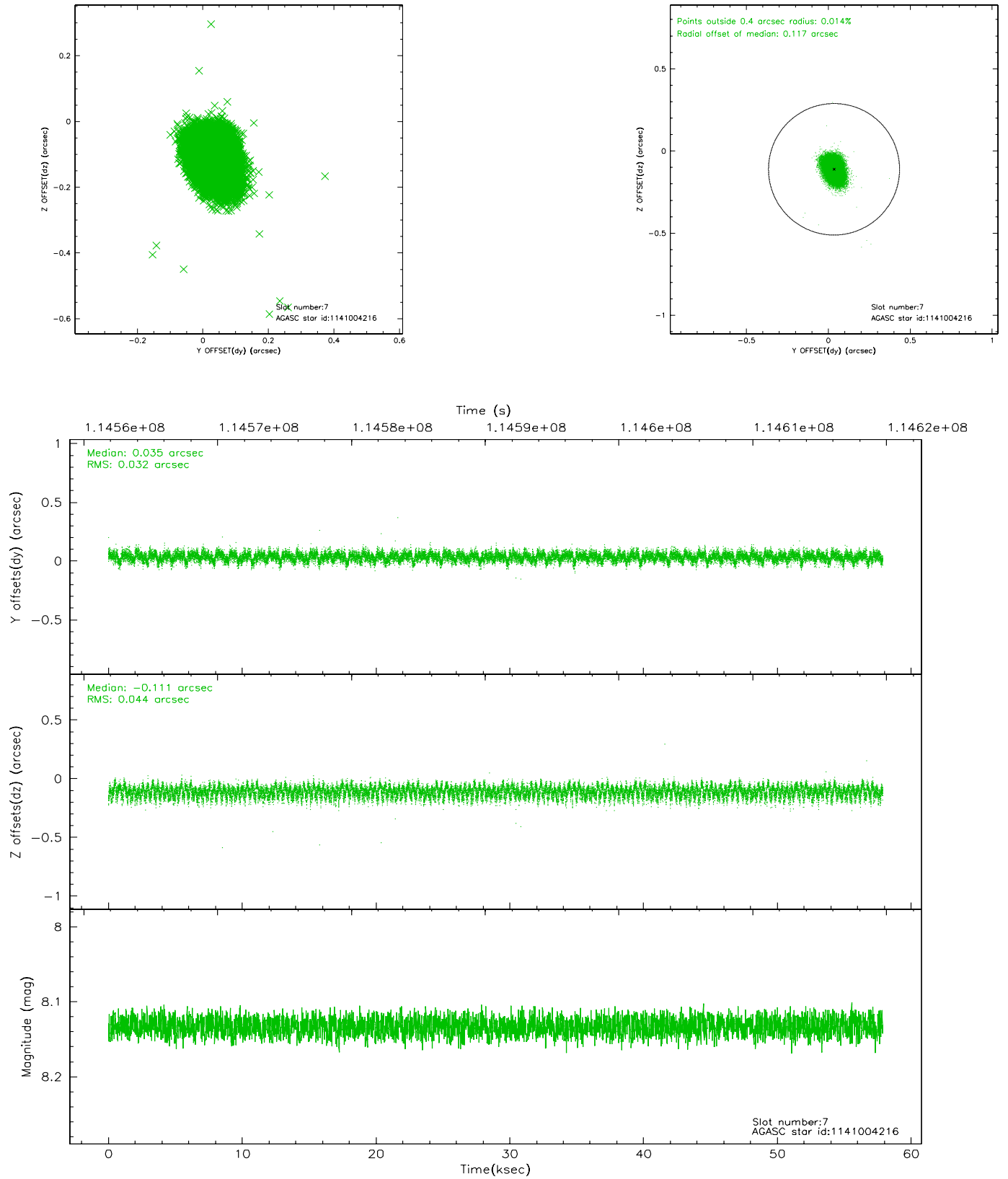


## 2.4.4 Slot 6



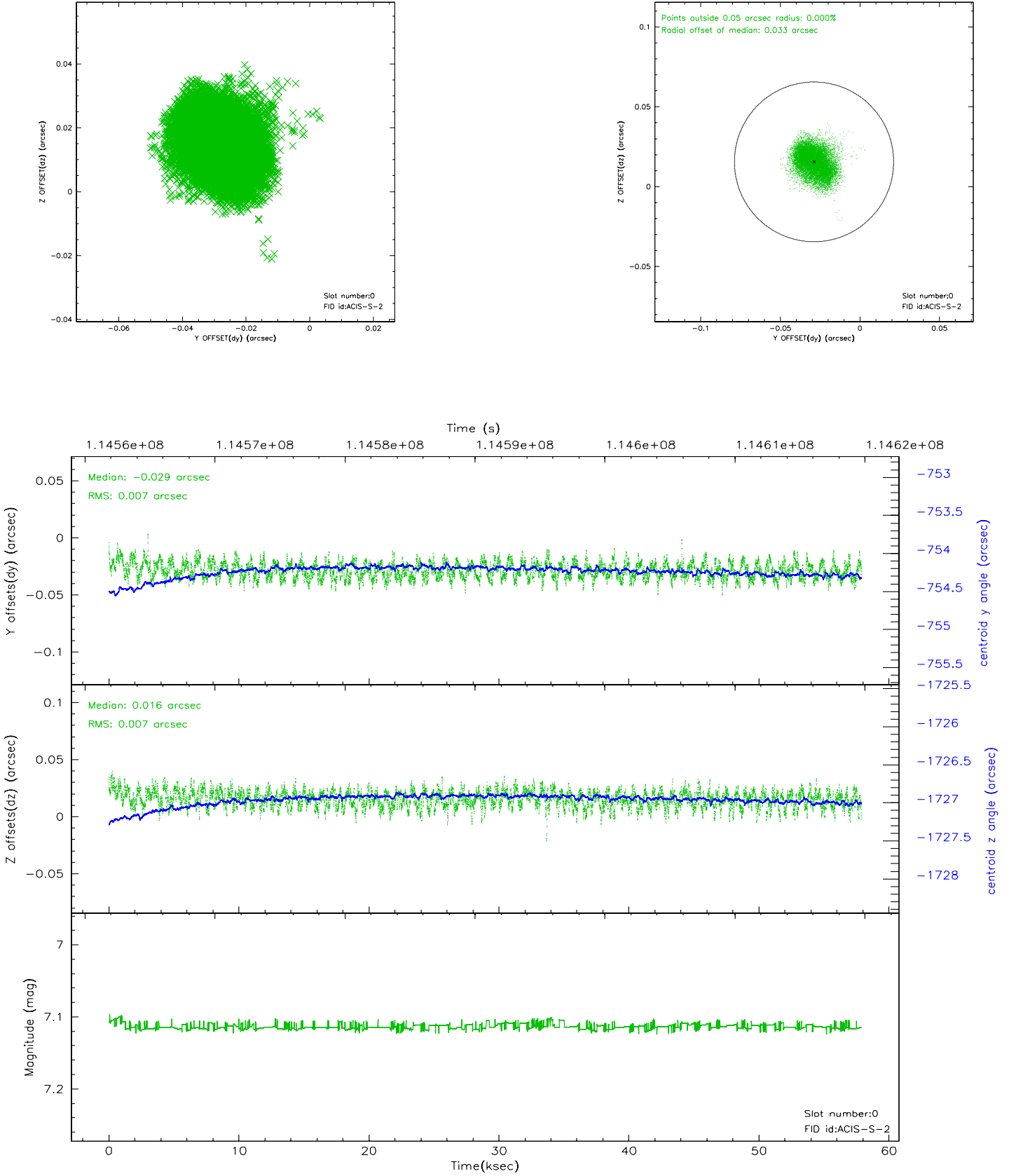


## 2.4.5 Slot 7

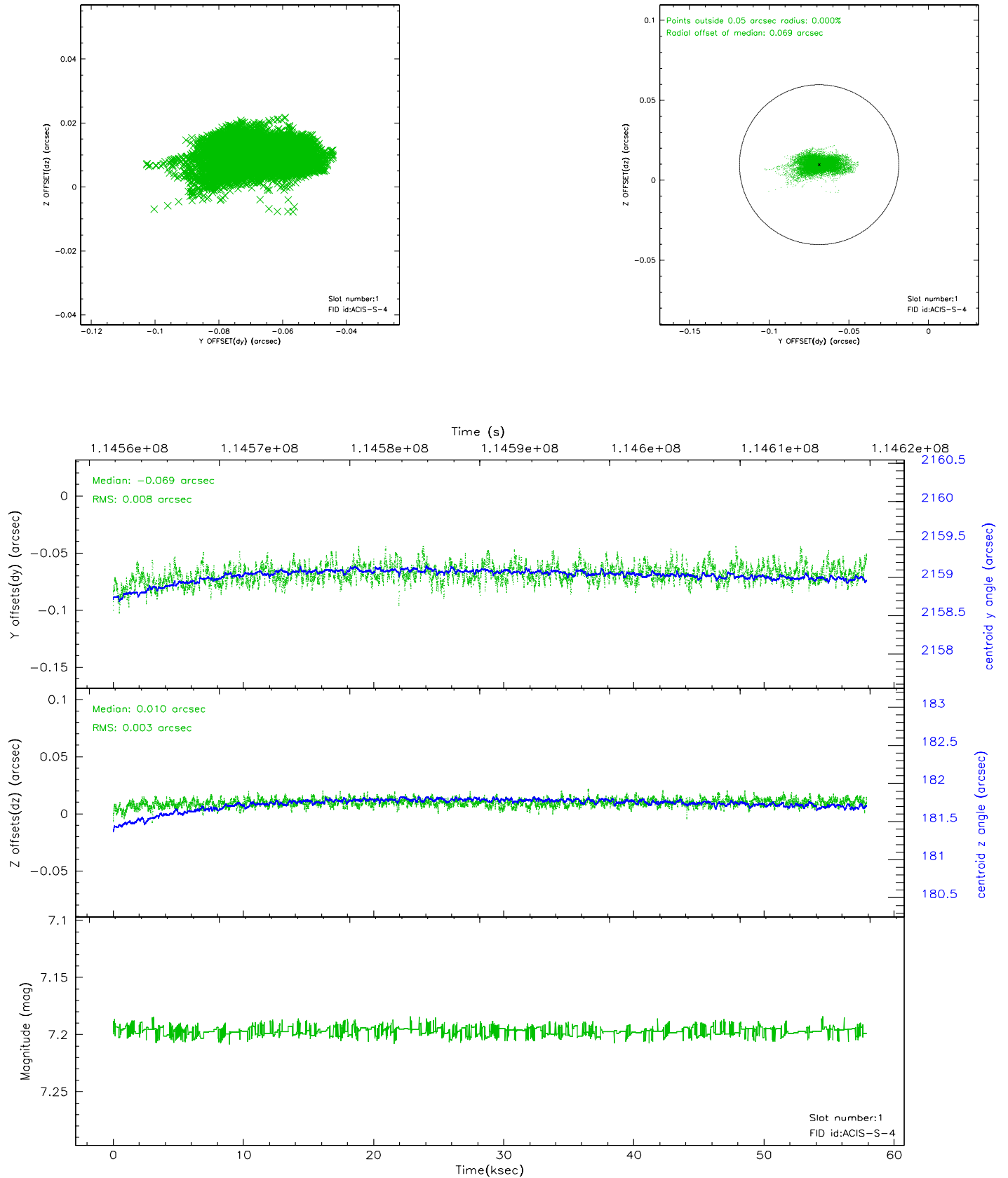


## 2.5 FID Slots

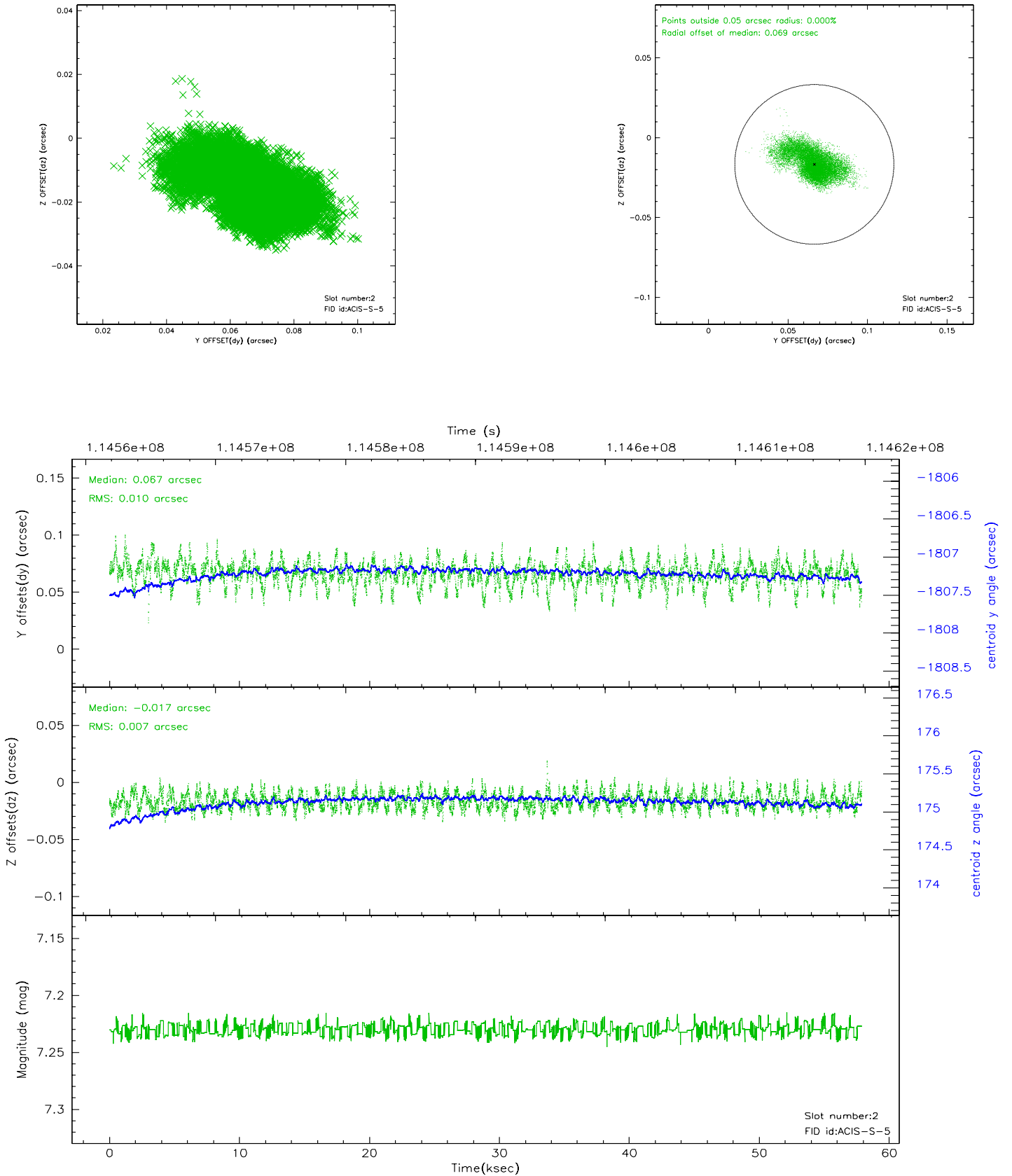
### 2.5.1 Slot 0



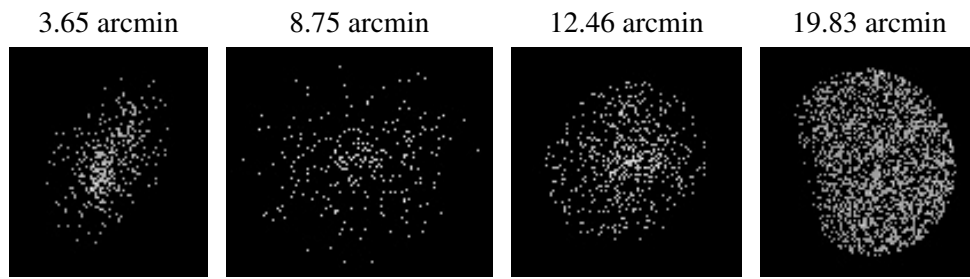
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	56.845

### A.2 Comments