

# V&V Reference Report

## L2 ASCDS Version : 7.6.8.1

Observation 3043 - L2 Version 001  
Chandra X-Ray Center

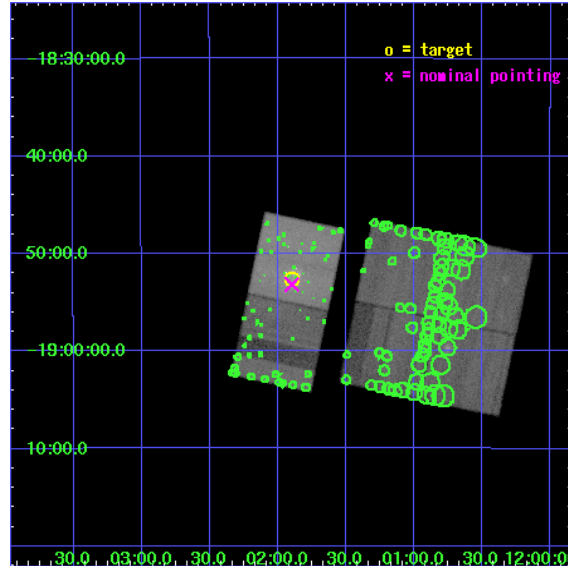
L2 Processing Date : Sep 11 2006

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# 1 Front

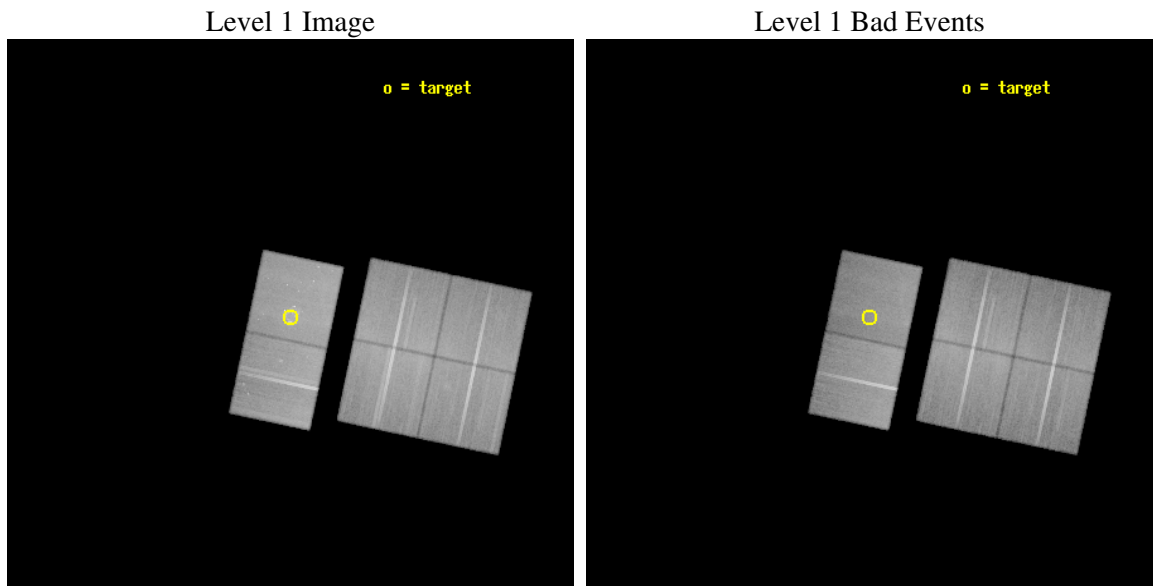
seq_num	700482
obs_id	3043
title	AN IN-DEPTH STUDY OF THE X-RAY SOURCE POPULATION AND HOT ISM OF THE ANTENNAE GALAXIES
observer	Dr Giuseppina Fabbiano
object	NGC 4038/NGC 4039
dtcycle	0
cycle	P
ra_targ	180.47375
dec_targ	-18.876528
ra_nom	180.47406768669
dec_nom	-18.886223182416
roll_nom	281.94997054821
revision	2
ontime	67961.558766574
livetime	67100.988587934
ontime0	67964.799746811
ontime1	67955.076905698
ontime2	67961.558796465
ontime3	67961.558766574
ontime6	67964.799746811
ontime7	67961.558766574
l2events	715698



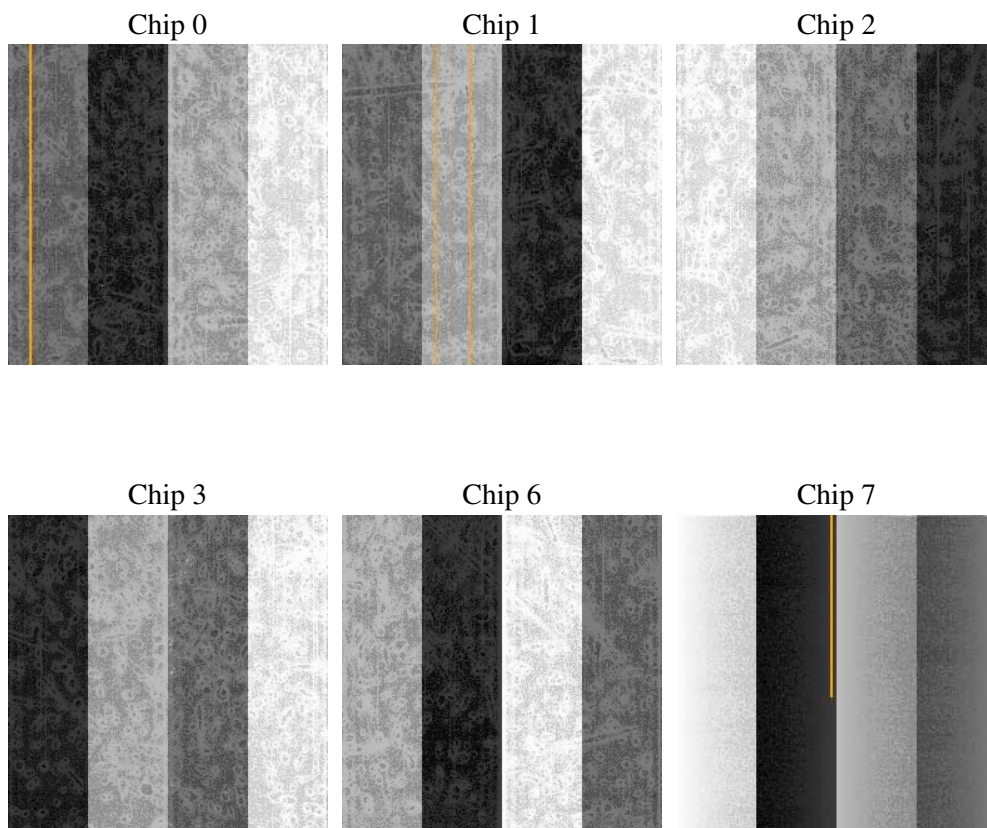
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.8.1
caldsver	3.2.3
date	2006-09-11T13:22:22
revision	2

sched_exp_time	68000.000000
ontime	67967.139964759
ontime0	67970.380944997
ontime1	67960.658103883
ontime2	67967.139994651
ontime3	67967.139964759
ontime6	67970.380944997
ontime7	67967.139964759
l1events	3334146

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	513848	505901	566094	547182	582762	618359
rejected events	399992	395028	456575	442471	469876	355500
rejected %	77%	78%	80%	80%	80%	57%

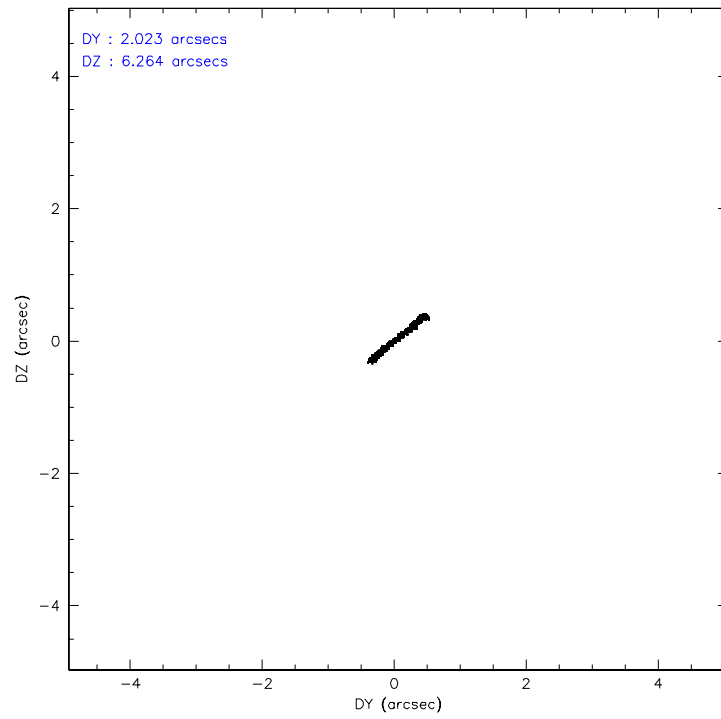
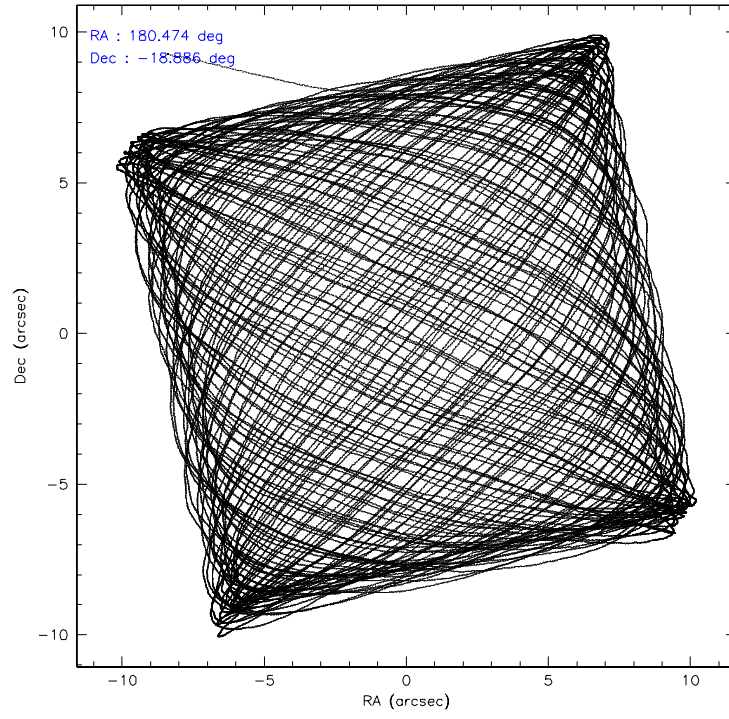
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	44628	37284	46043	36000	45706	24668
	8%	7%	8%	6%	7%	3%
grade 1 events	345	220	388	230	343	634
	0%	0%	0%	0%	0%	0%
grade 2 events	33123	34886	28884	33338	33630	67684
	6%	6%	5%	6%	5%	10%
grade 3 events	5607	6382	4870	5155	5507	16626
	1%	1%	0%	0%	0%	2%
grade 4 events	5906	5744	7517	5760	5684	16615
	1%	1%	1%	1%	0%	2%
grade 5 events	16544	16582	15039	16672	18100	38752
	3%	3%	2%	3%	3%	6%
grade 6 events	24602	26589	22209	24472	22373	137292
	4%	5%	3%	4%	3%	22%
grade 7 events	383093	378214	441144	425555	451419	316088
	74%	74%	77%	77%	77%	51%

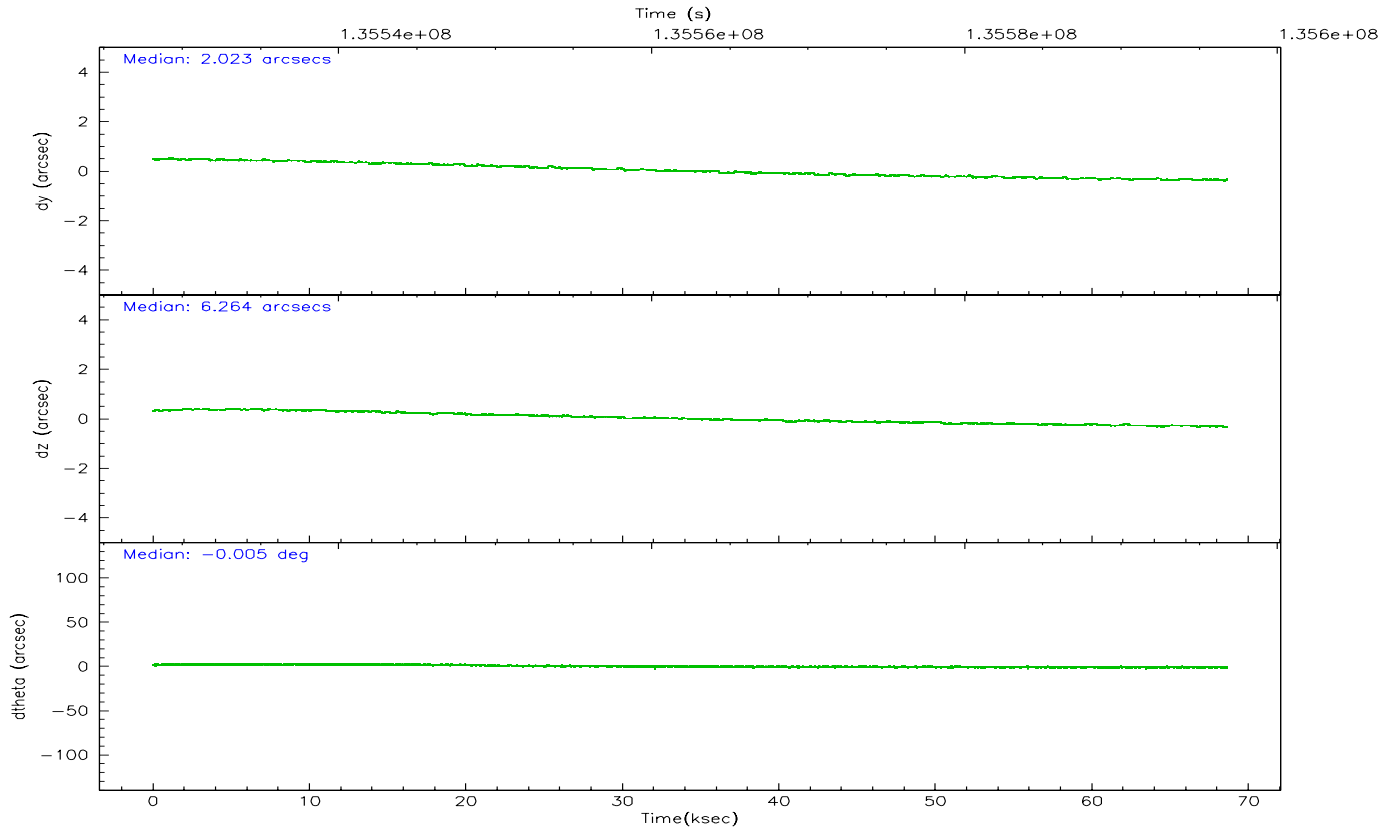
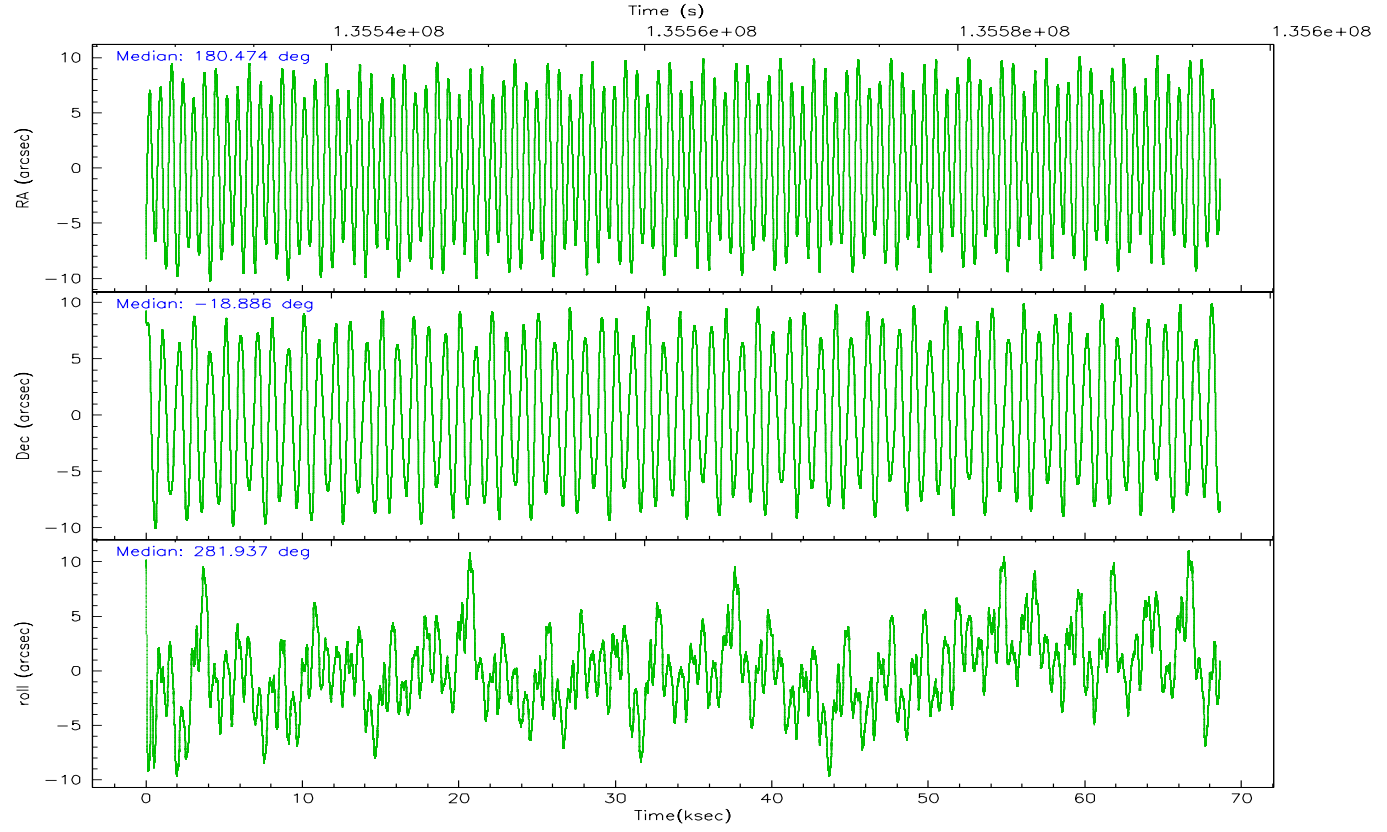


## 2.2 Compared Parameters

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	180.454558	180.4740676866946	Alternating exposures requested	N	N
Pointing Dec	-18.866193	-18.88622318241569	Primary exposure time	0.000000	3.2
Pointing Roll	281.787023	281.9499705482126			
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	135528780.184000	135527592.81254			
Observation start date	2002-04-18T14:51:56	2002-04-18T14:33:12			
Observation end time	135596780.184000	135598016.46541			
Observation end date	2002-04-19T09:45:16	2002-04-19T10:06:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect



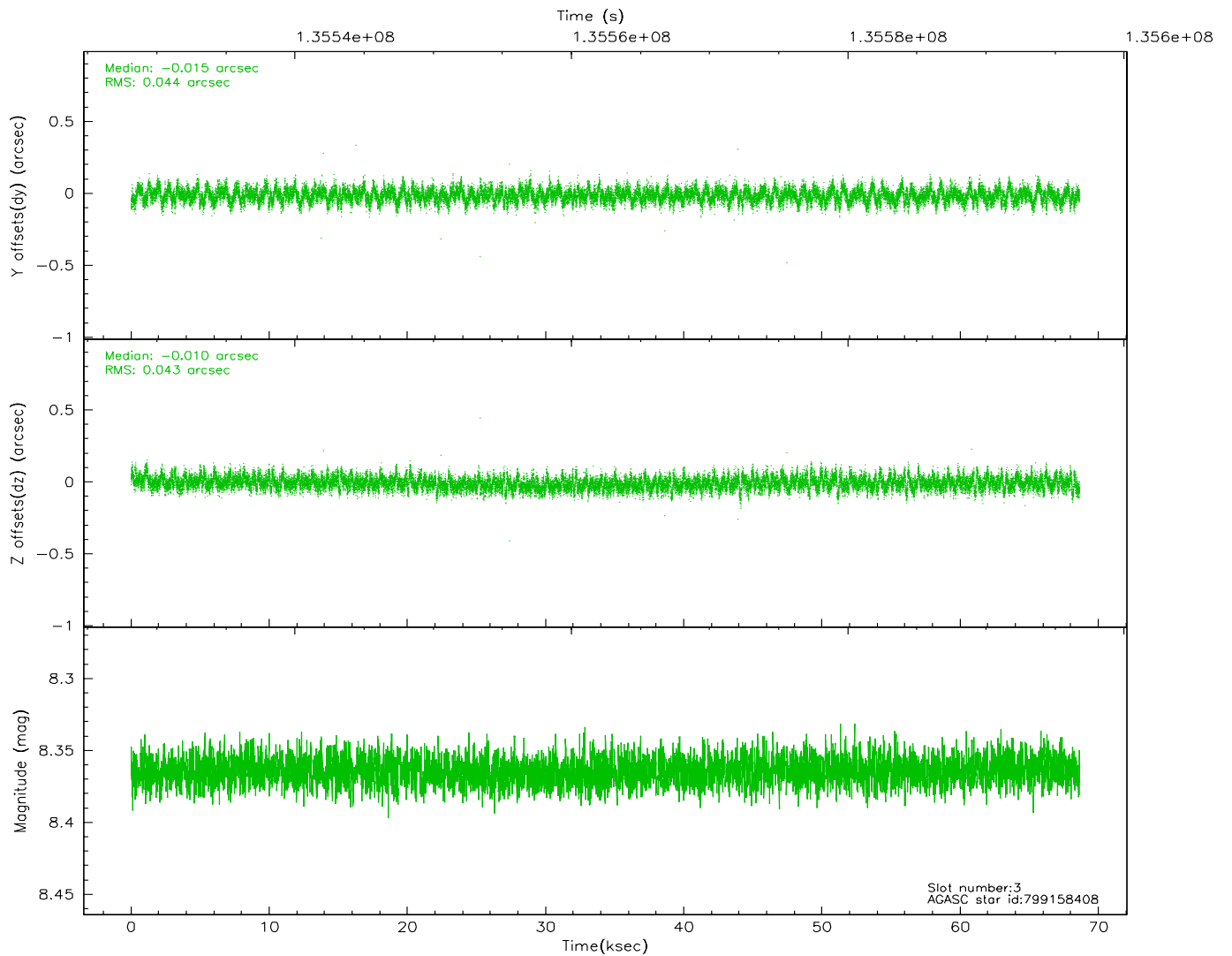
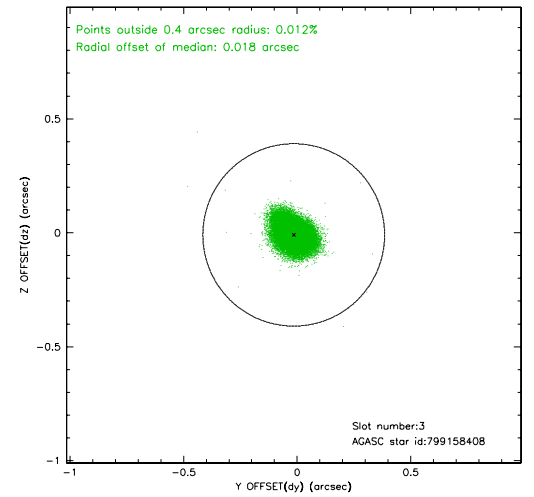
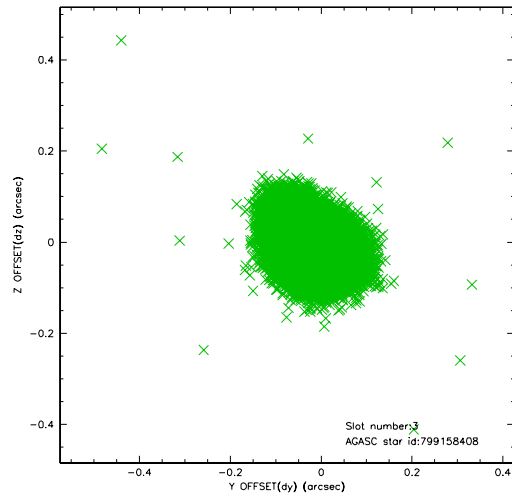


### Slot Statistics

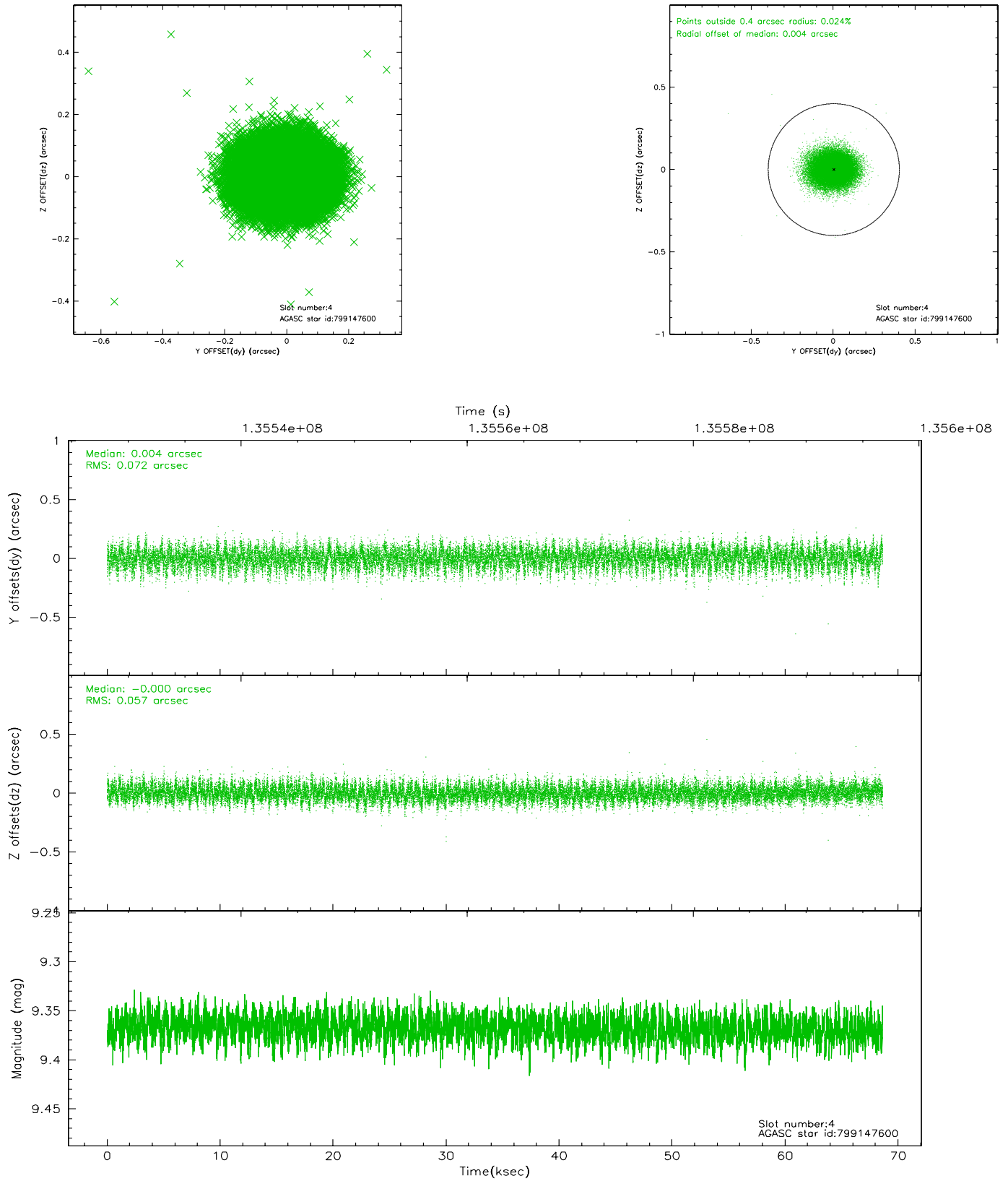
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-3	7.36	16741	-0.080	-0.058	0.011	0.018	0.000000	0.000000	58.46	-1856.56
1	FID	ACIS-S-4	7.21	16741	-0.032	0.070	0.013	0.020	0.000000	0.000000	2158.64	181.18
2	FID	ACIS-S-5	7.24	16743	0.081	-0.001	0.013	0.027	0.000000	0.000000	-1807.50	174.69
3	GUIDE	799158408	8.36	33477	-0.015	-0.010	0.065	0.107	180.413548	-19.338934	1638.07	-482.82
4	GUIDE	799147600	9.37	33468	0.004	-0.000	0.097	0.158	180.387500	-19.402329	1843.66	-616.22
5	GUIDE	799150224	9.93	33184	-0.136	-0.050	0.131	0.215	181.019441	-19.129543	1323.55	1687.67
6	GUIDE	799156504	9.54	33415	0.126	0.117	0.097	0.159	181.239860	-19.376445	2348.99	2235.97
7	GUIDE	799154984	10.28	33299	0.024	-0.047	0.151	0.250	181.106277	-19.165154	1510.47	1949.82

## 2.4 Star Slots

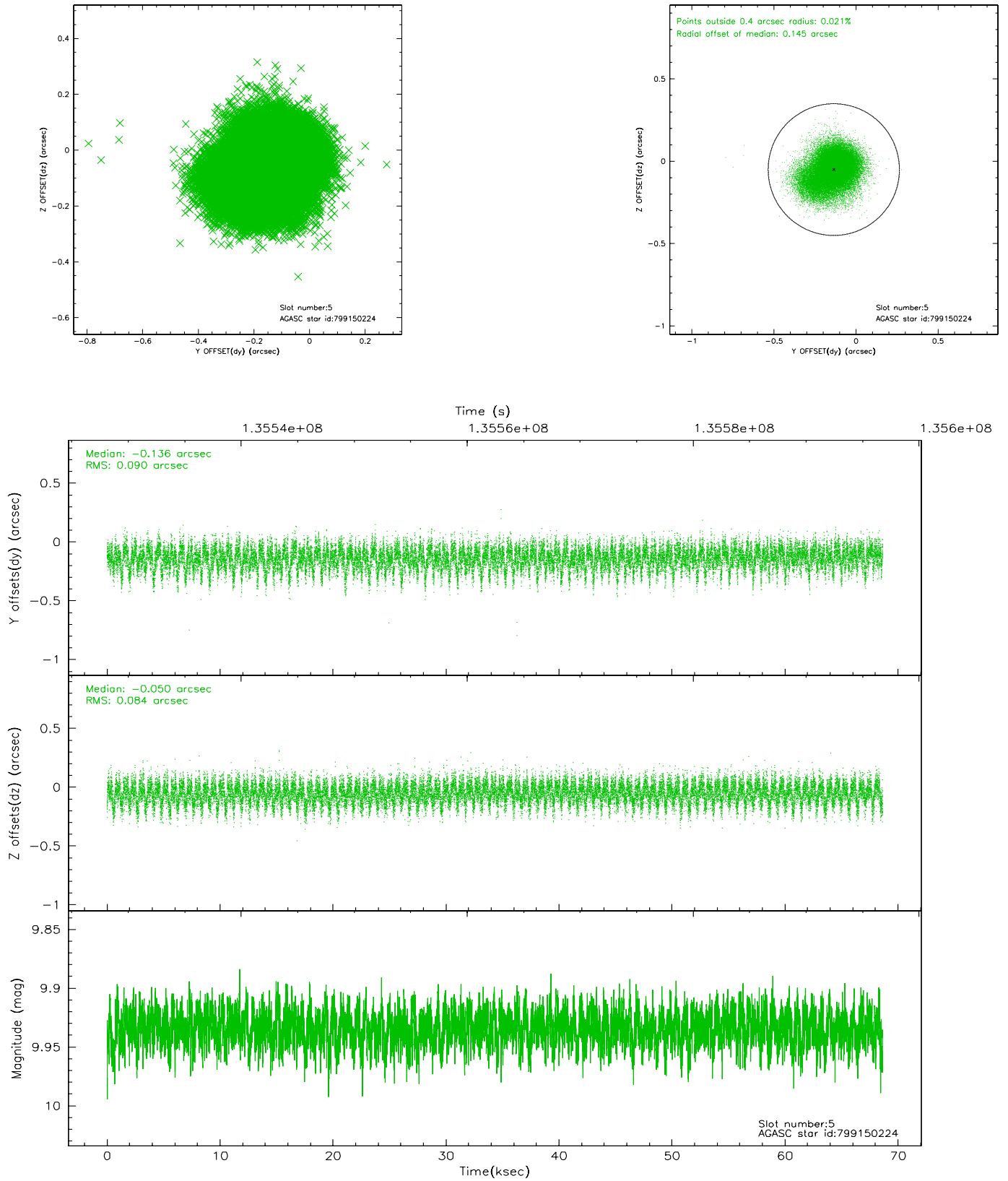
### 2.4.1 Slot 3



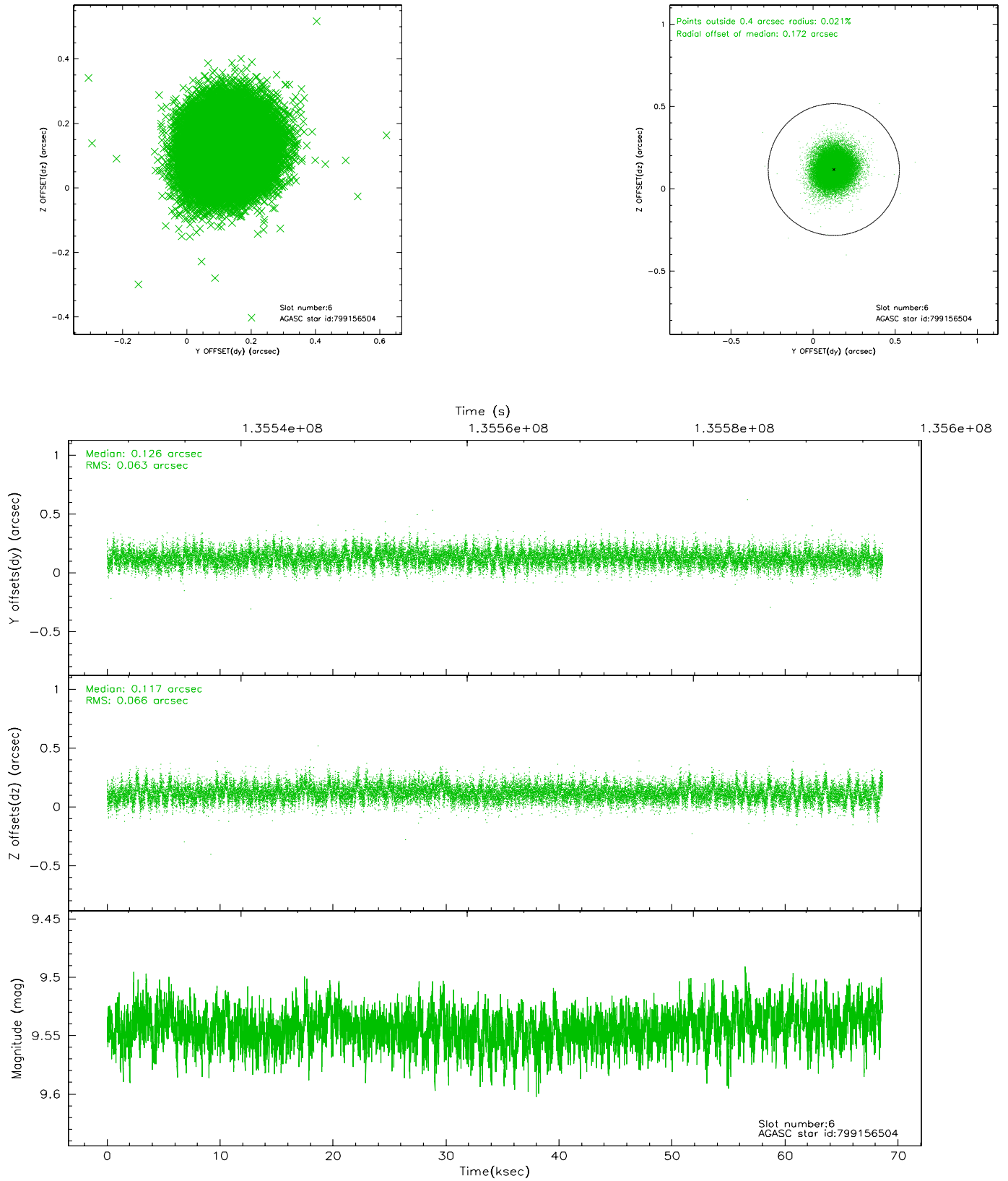
## 2.4.2 Slot 4



### 2.4.3 Slot 5

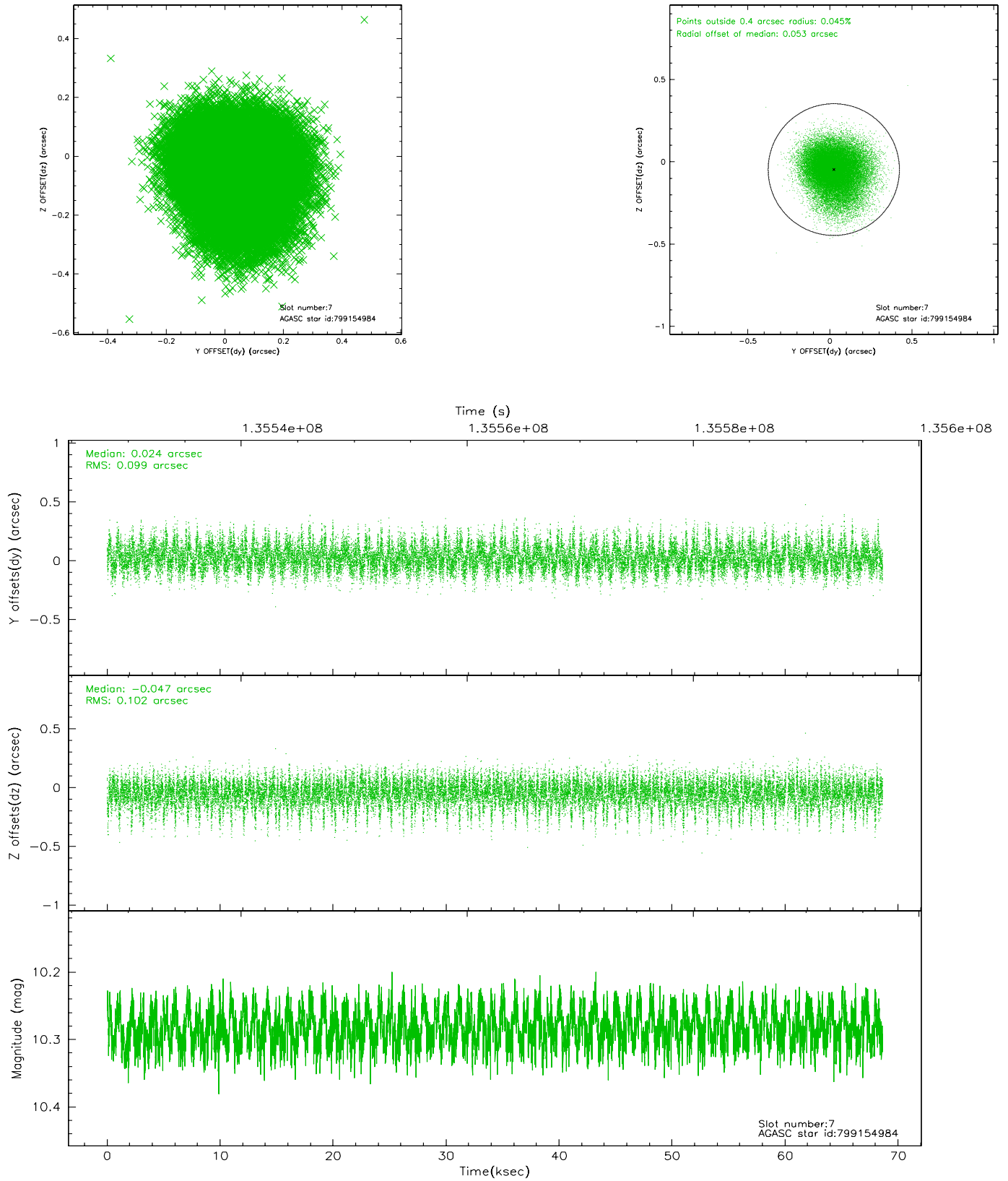


## 2.4.4 Slot 6



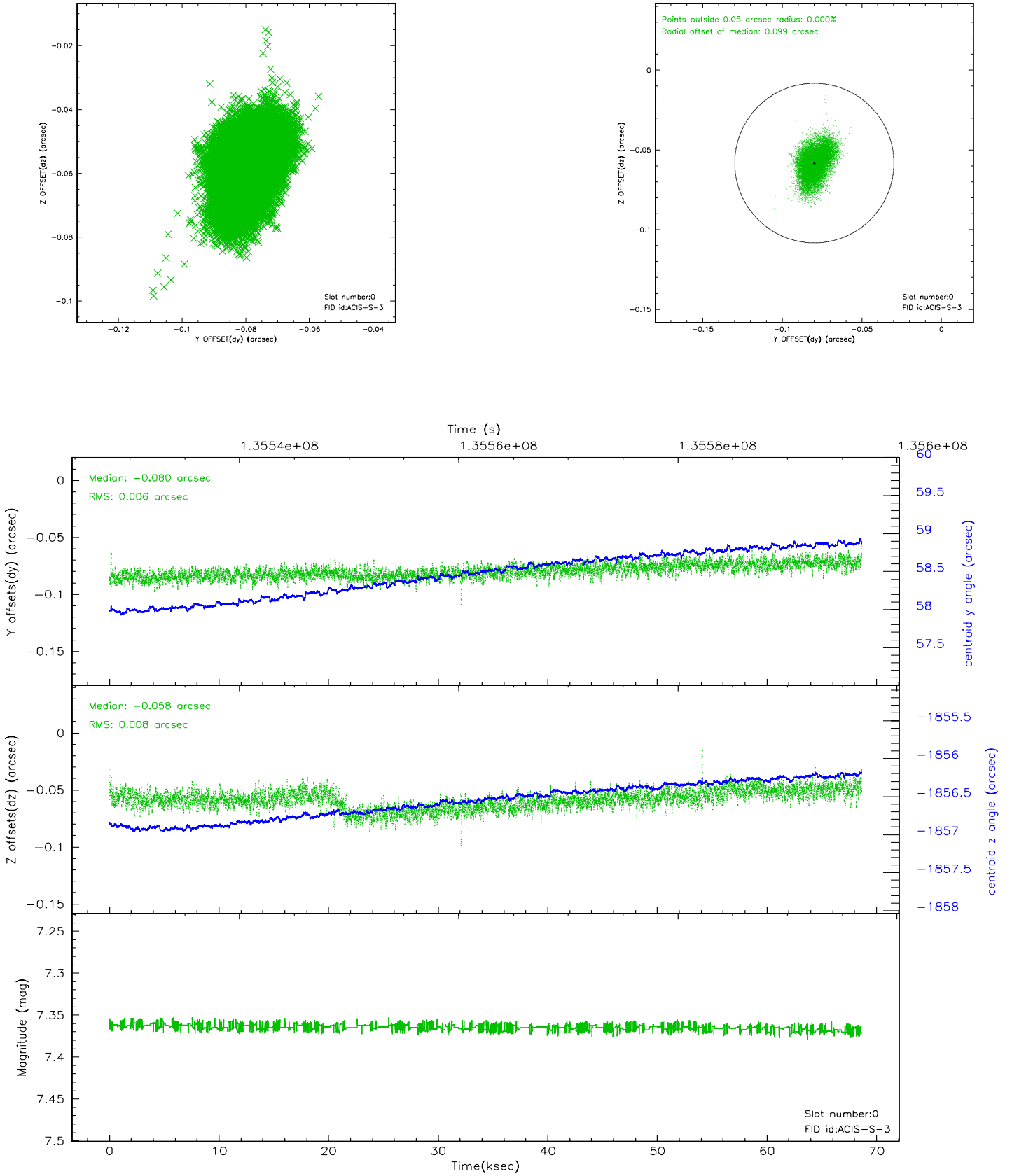


## 2.4.5 Slot 7

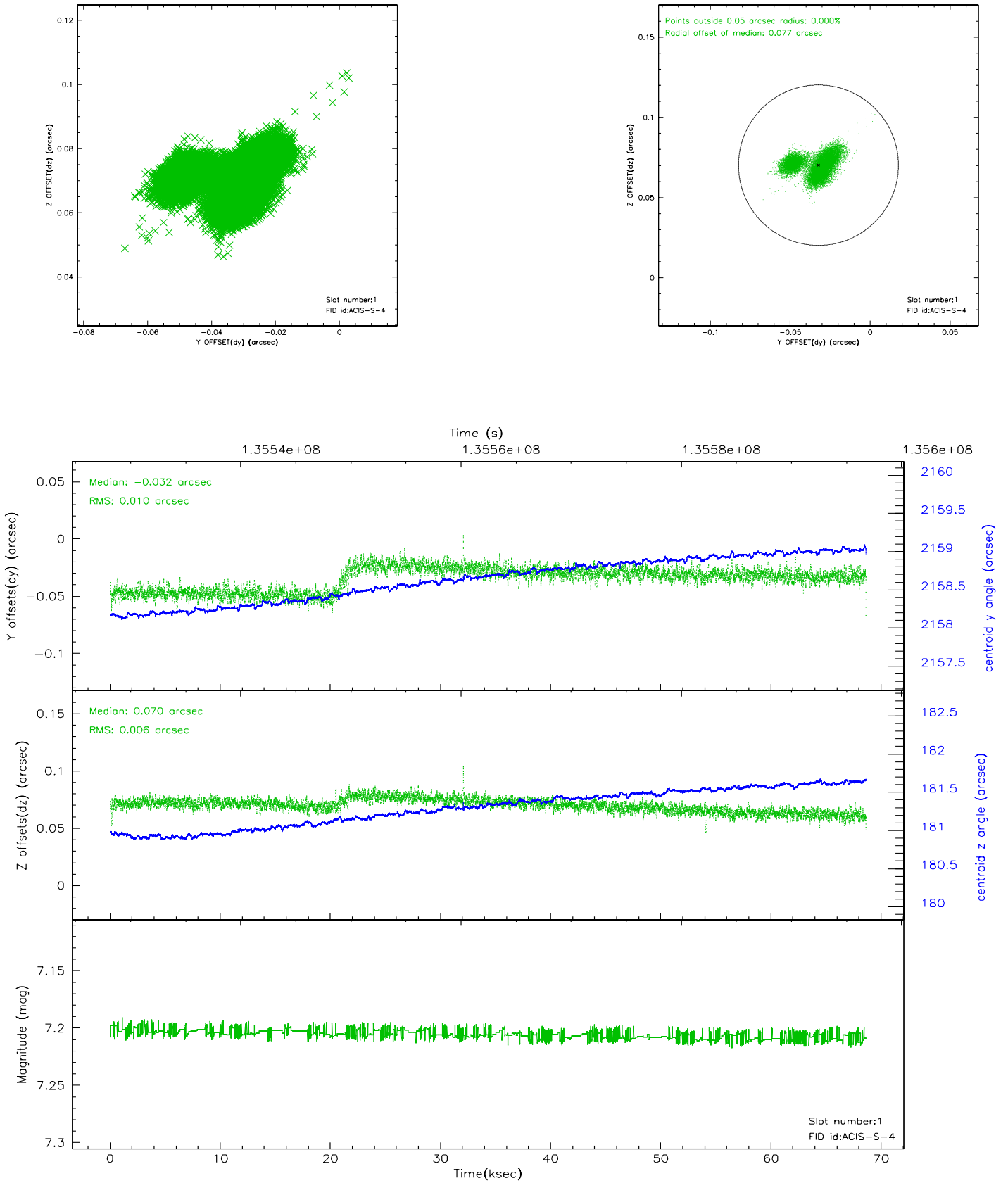


## 2.5 FID Slots

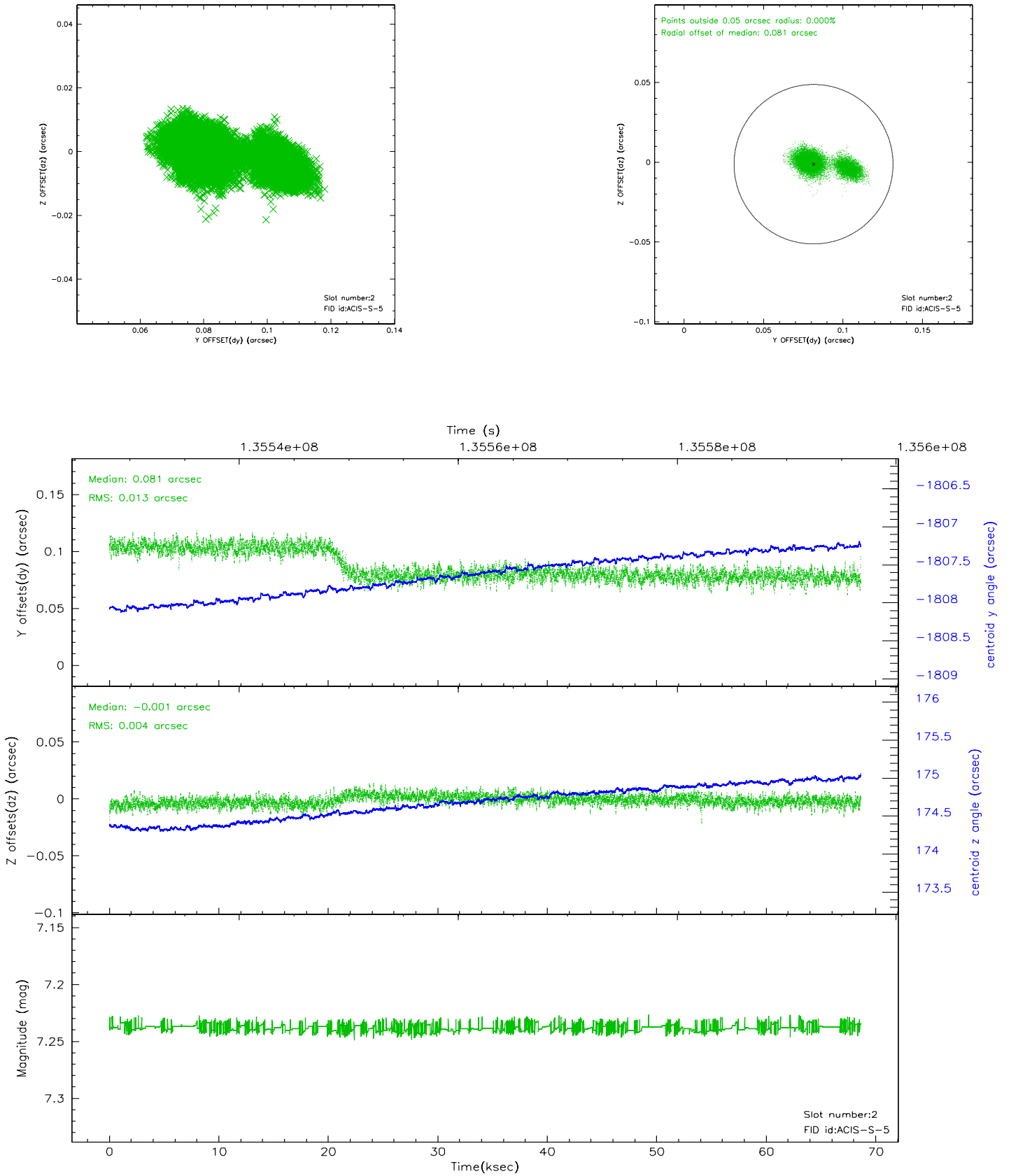
### 2.5.1 Slot 0



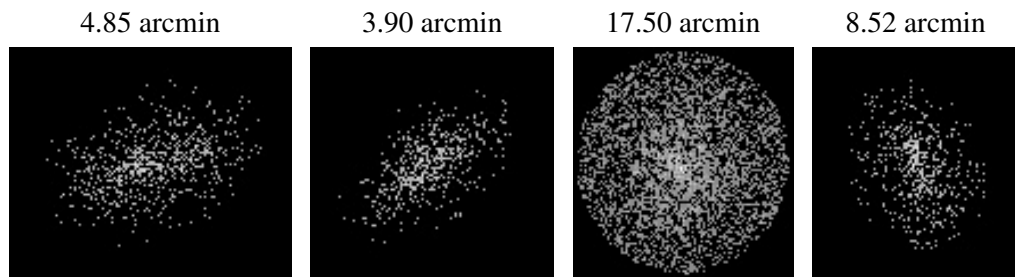
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	67.964

### A.2 Comments