

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 5490 - L2 Version 2  
Chandra X-Ray Center

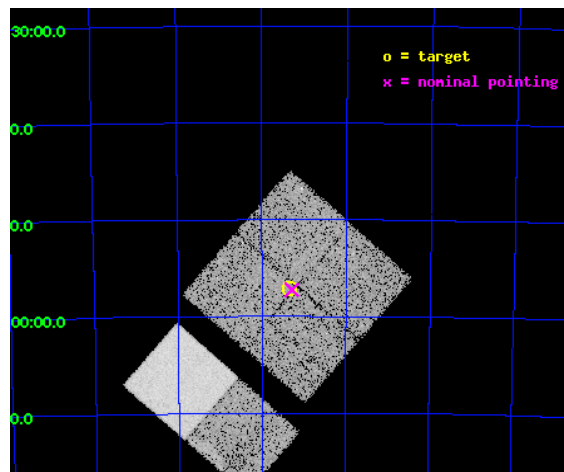
L2 Processing Date : Mar 26 2012

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# 1 Front

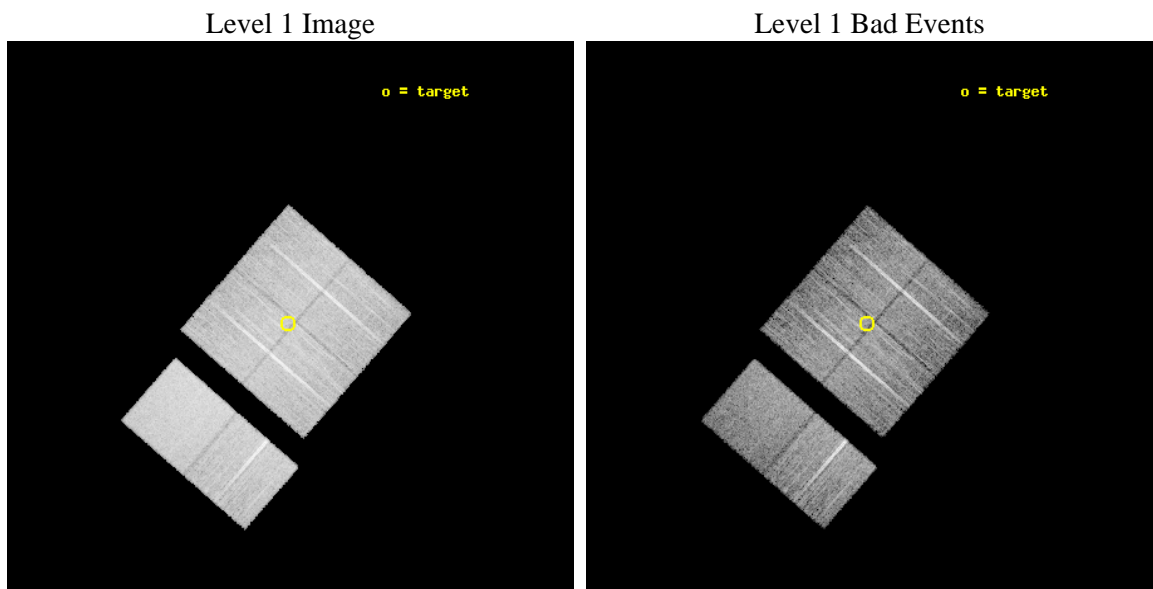
seq_num	400420	Sequence number
obs_id	5490	Observation id
title	Discovering X-ray pulsars in the Wing of the Small Magellanic Cloud	&#160
observer	Prof Malcolm Coe	Principal investigator
object	SMCwing 11	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	18.3375	Observer's specified target RA [deg]
dec_targ	-72.952778	Observer's specified target Dec [deg]
ra_nom	18.322543009522	Nominal RA [deg]
dec_nom	-72.95426457355	Nominal Dec [deg]
roll_nom	221.13765421579	Nominal Roll [deg]
revision	2	Processing version of data
ontime	10453.191910863	Sum of GTIs [s]
livetime	10320.827300731	Livetime [s]
ontime0	10453.068790883	Sum of GTIs [s]
ontime1	10453.109830856	Sum of GTIs [s]
ontime2	10453.15087086	Sum of GTIs [s]
ontime3	10453.191910863	Sum of GTIs [s]
ontime6	10453.27399087	Sum of GTIs [s]
ontime7	10453.232950866	Sum of GTIs [s]
l2events	96802	Number of level 2 events



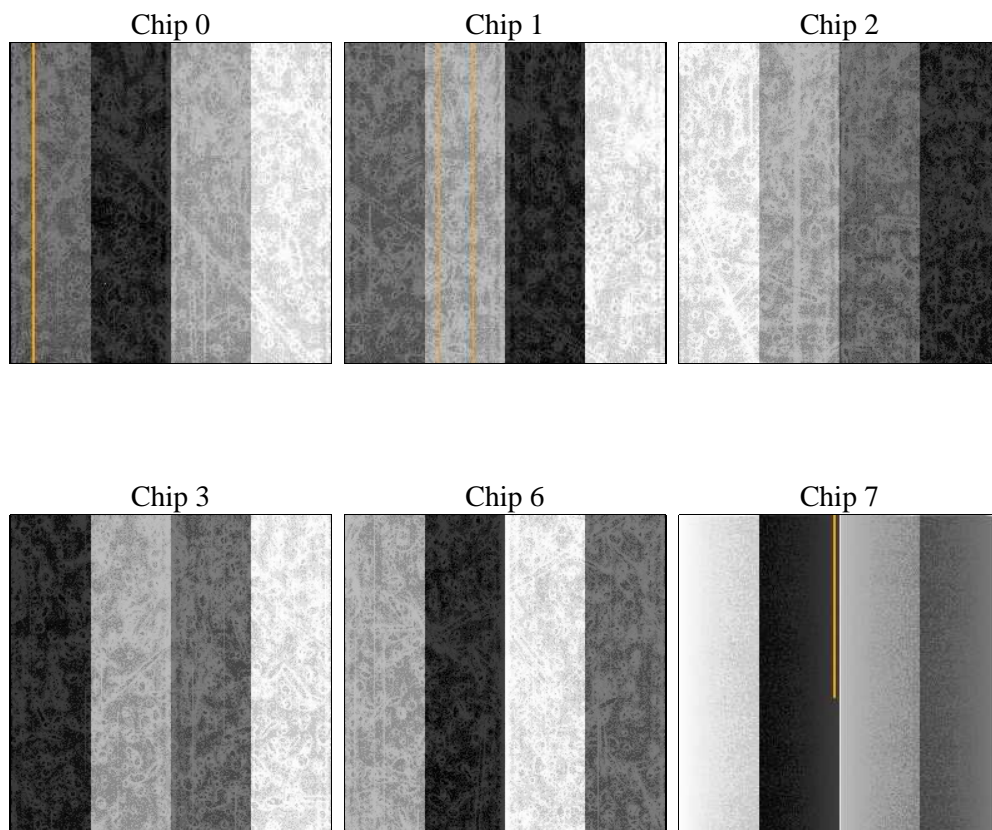
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10500.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	10453.191910863	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	10453.068790883	Sum of GTIs [s]
date	2012-03-26T06:56:53	Date and time of file creation	ontime1	10453.109830856	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	10453.15087086	Sum of GTIs [s]
			ontime3	10453.191910863	Sum of GTIs [s]
			ontime6	10453.27399087	Sum of GTIs [s]
			ontime7	10453.232950866	Sum of GTIs [s]
			l1events	566733	Number of level 1 events

### 2.1.4 Events

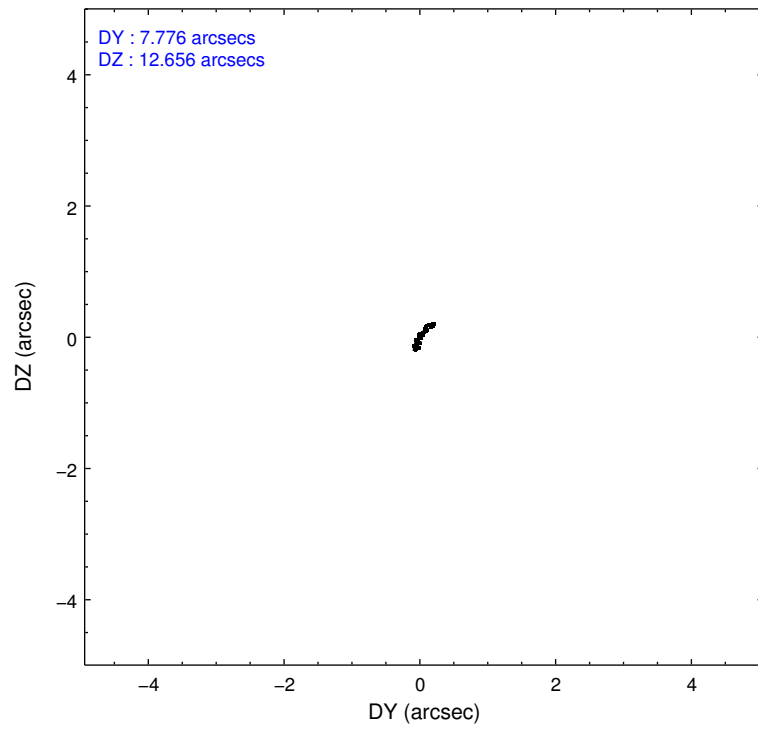
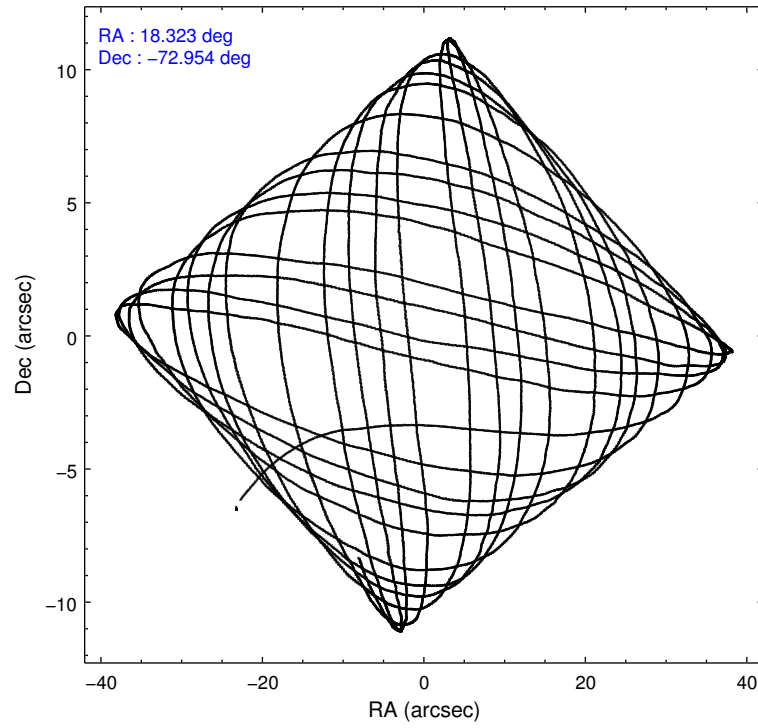
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	80559	86311	92159	88660	96126	122918	grade 0 events	4497	4411	4700	4491	4579	4611
rejected events	69885	74815	81467	78236	84815	71778		5%	5%	5%	5%	4%	3%
rejected %	86%	86%	88%	88%	88%	58%	grade 1 events	43	44	66	62	56	111
								0%	0%	0%	0%	0%	0%
							grade 2 events	2364	2605	2213	2064	2372	10261
								2%	3%	2%	2%	2%	8%
							grade 3 events	1051	1193	1023	974	1062	4471
								1%	1%	1%	1%	1%	3%
							grade 4 events	944	1110	1029	994	1102	4423
								1%	1%	1%	1%	1%	3%
							grade 5 events	3594	3892	3471	4245	4218	11894
								4%	4%	3%	4%	4%	9%
							grade 6 events	1825	2181	1730	1904	2205	27409
								2%	2%	1%	2%	2%	22%
							grade 7 events	66241	70875	77927	73926	80532	59738
								82%	82%	84%	83%	83%	48%

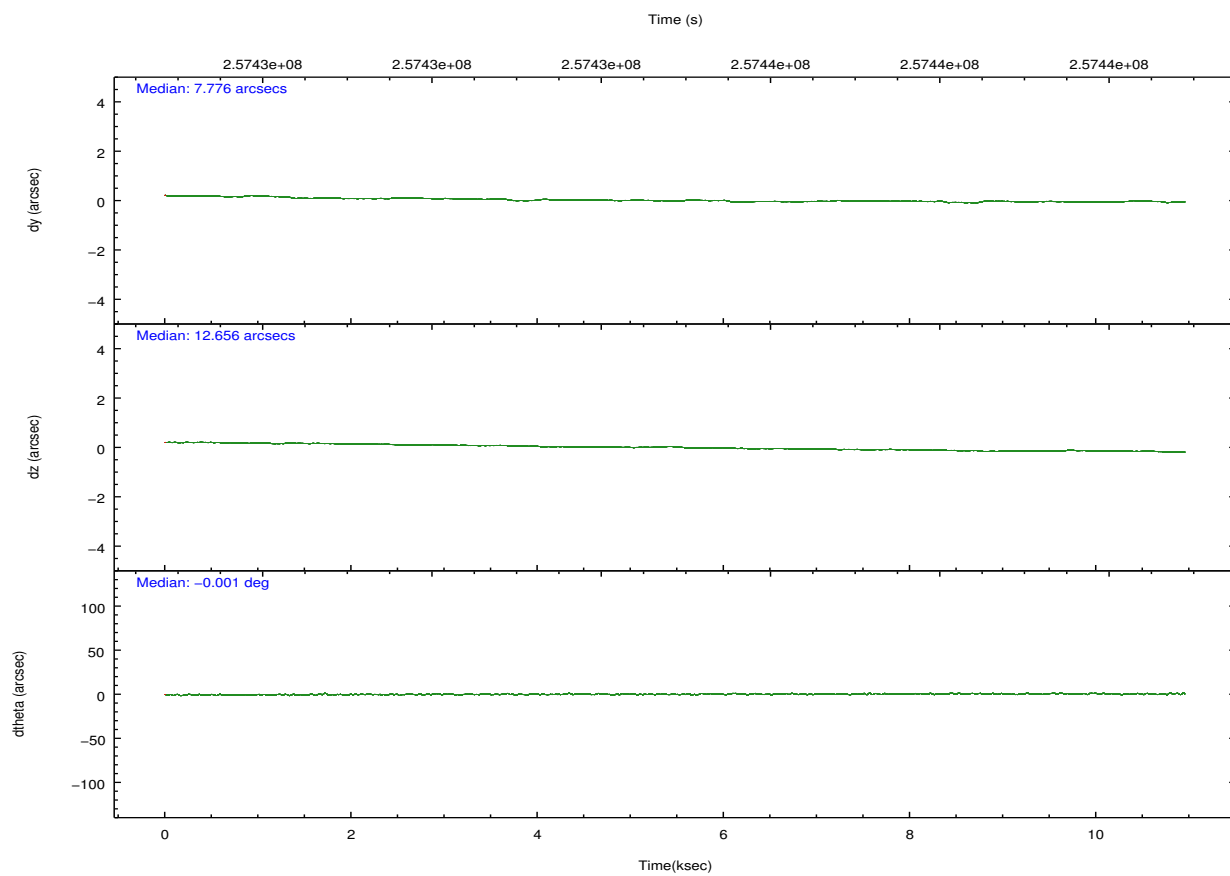
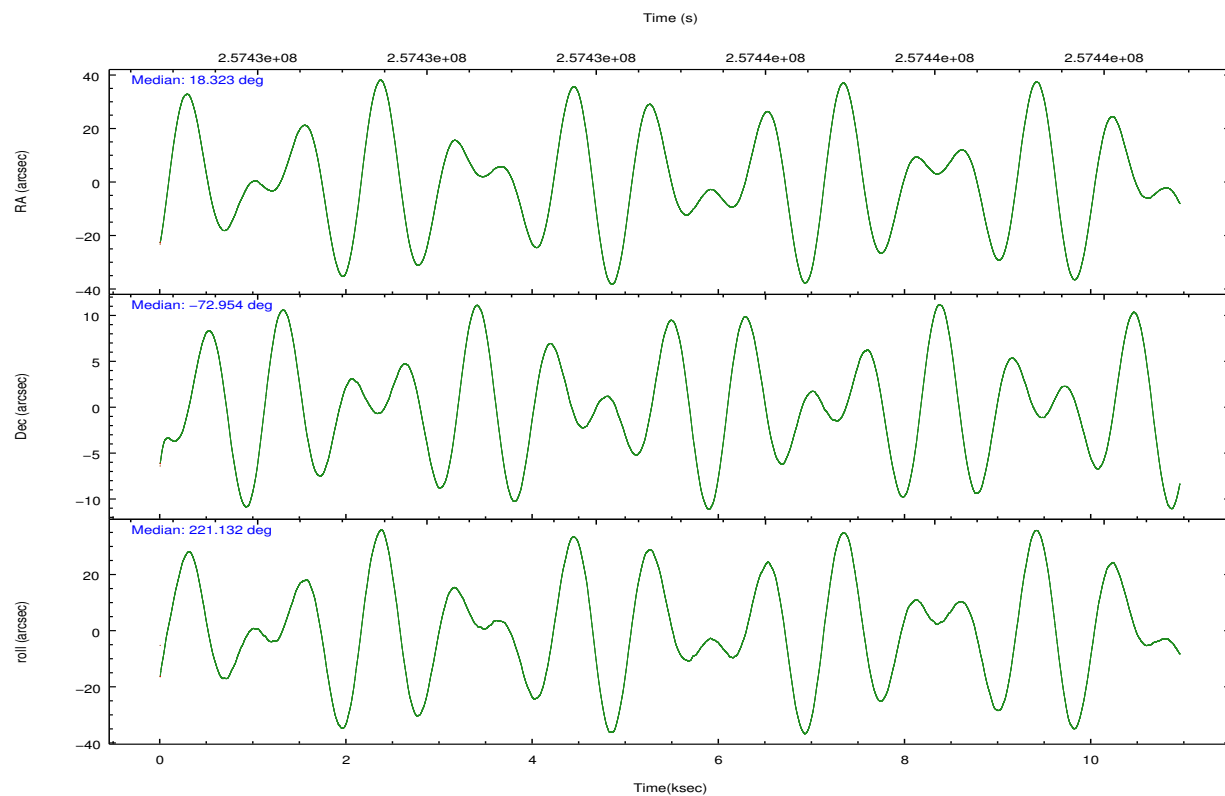


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	18.352260	18.32254300952203	Subarray requested	NONE	NONE
[deg] Pointing Dec	-72.928288	-72.95426457355015	Alternating exposures requested	N	N
[deg] Pointing Roll	220.957382	221.1376542157901	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	257429851.184000	257428758.17143			
Observation start date	2006-02-27T12:16:26	2006-02-27T11:59:18			
[s] Observation end time (MET)	257440351.184000	257441456.38452			
Observation end date	2006-02-27T15:11:26	2006-02-27T15:30:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect



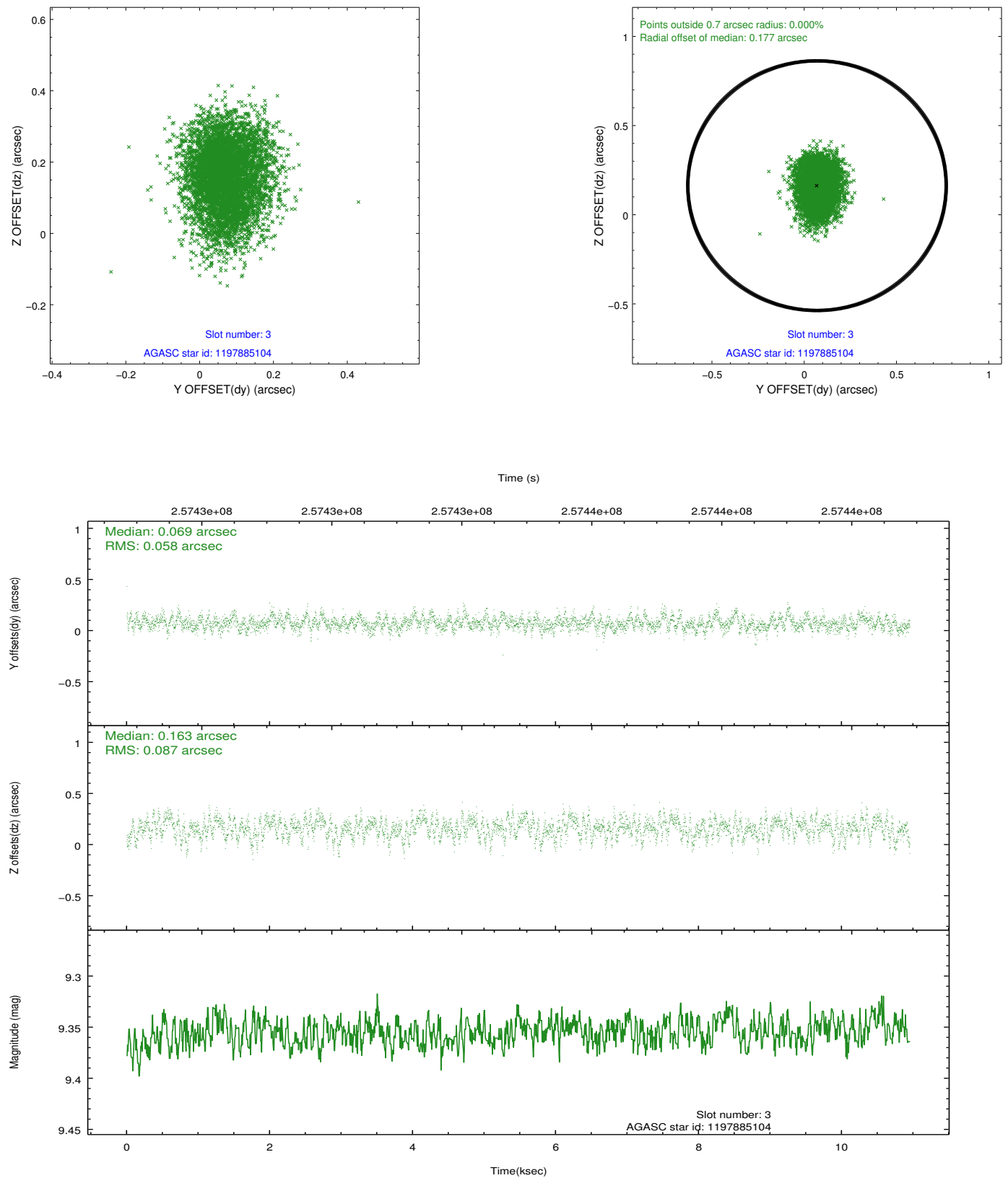


### Slot Statistics

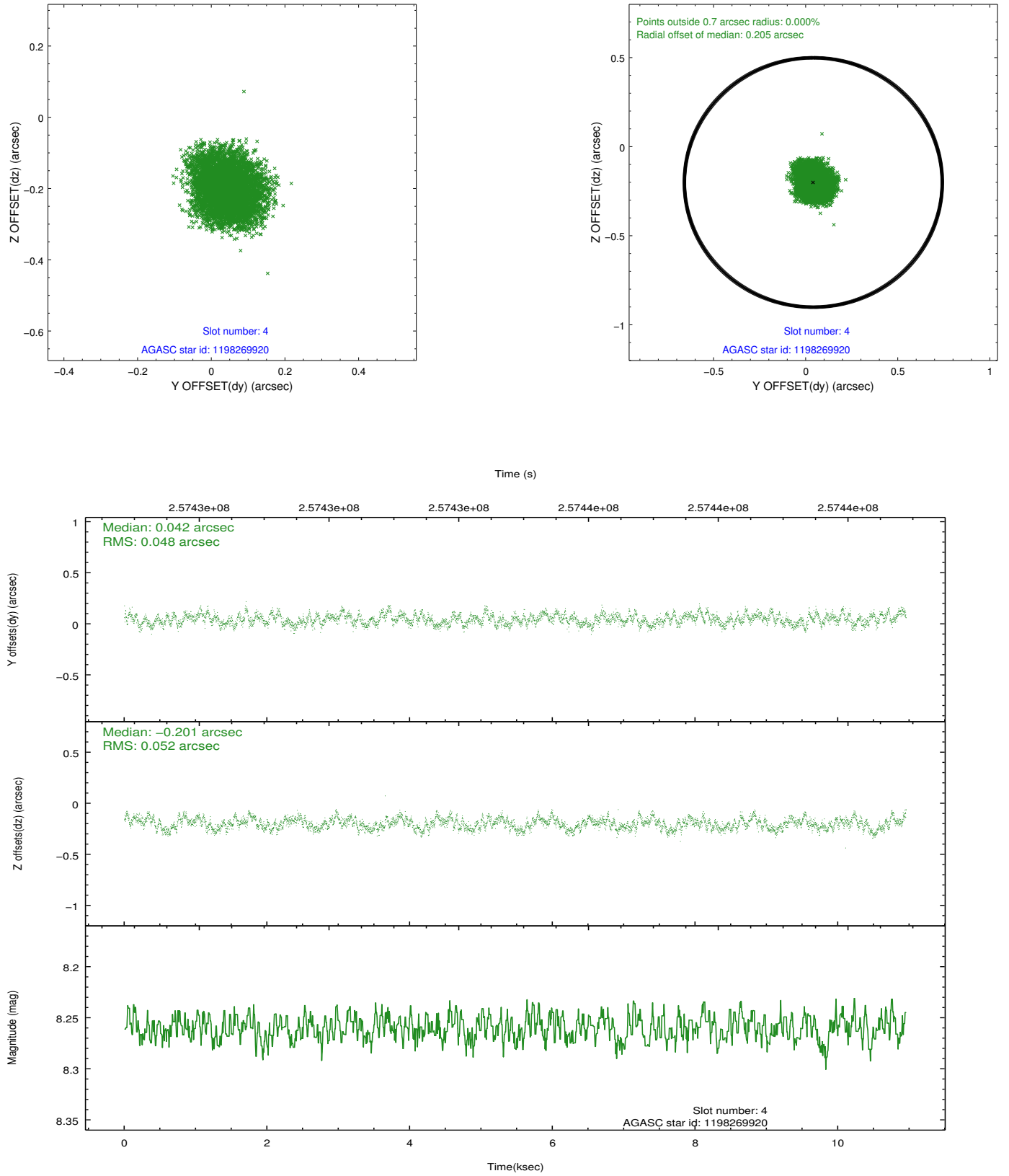
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	2672	0.046	0.003	0.008	0.014	0.000000	0.000000	931.89	-836.21
1	FID	ACIS-I-5	7.22	2672	-0.172	0.066	0.007	0.011	0.000000	0.000000	-1816.14	1061.16
2	FID	ACIS-I-6	7.25	2671	0.035	0.002	0.008	0.014	0.000000	0.000000	396.96	1706.09
3	GUIDE	1197885104	9.36	5337	0.069	0.163	0.111	0.182	17.845067	-72.189368	-1319.30	-2372.98
4	GUIDE	1198269920	8.26	5340	0.042	-0.201	0.077	0.119	20.316466	-73.033728	-1287.17	1663.96
5	GUIDE	1198273408	9.33	5319	-0.051	-0.068	0.092	0.153	17.532323	-73.621495	2268.04	1343.98
6	GUIDE	1198282744	9.00	5340	0.020	0.026	0.071	0.114	17.028326	-73.013356	1263.23	-669.19
7	GUIDE	1198283128	7.84	5342	-0.080	0.088	0.066	0.097	17.272580	-72.642428	208.65	-1529.28

## 2.4 Star Slots

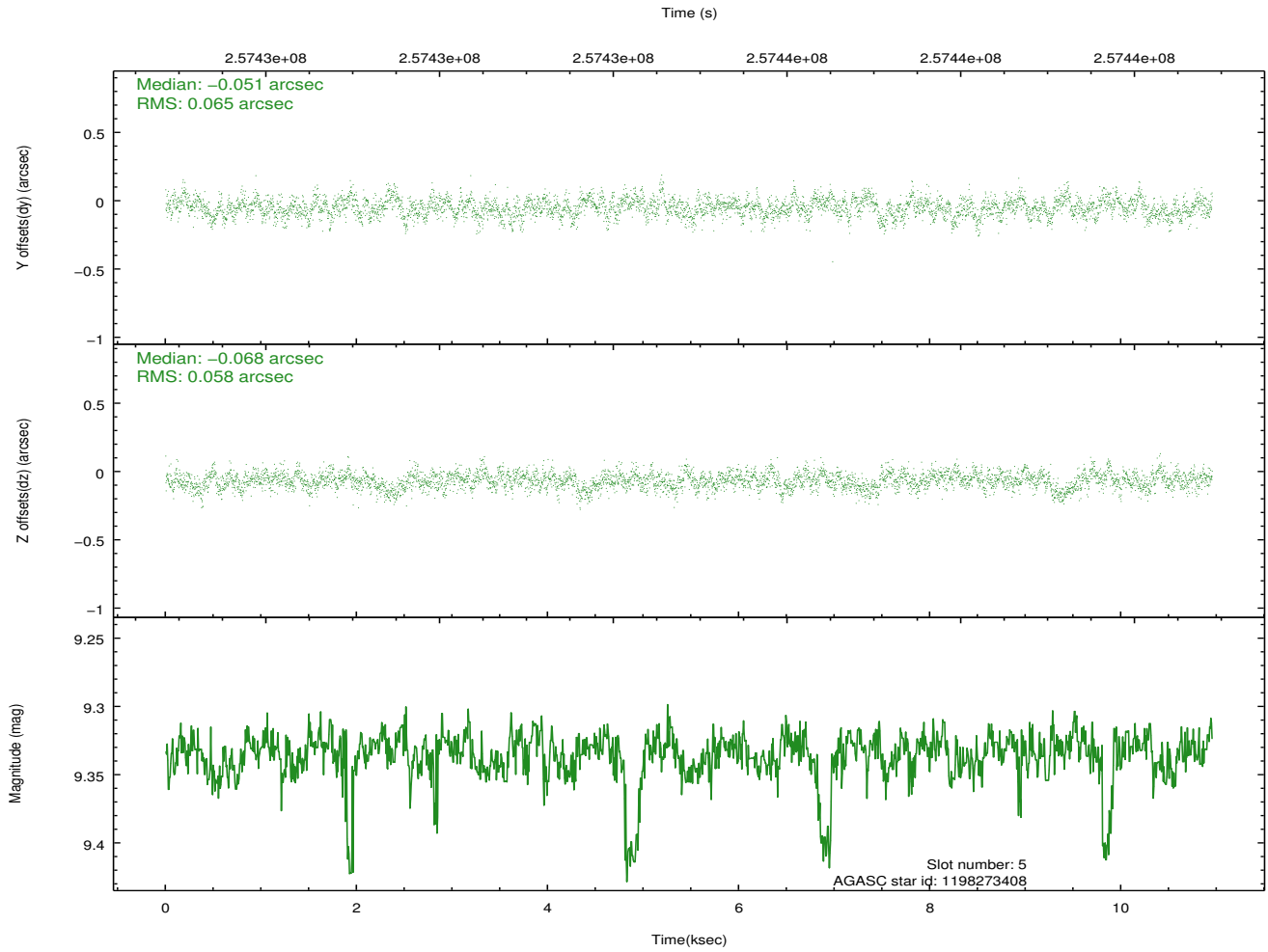
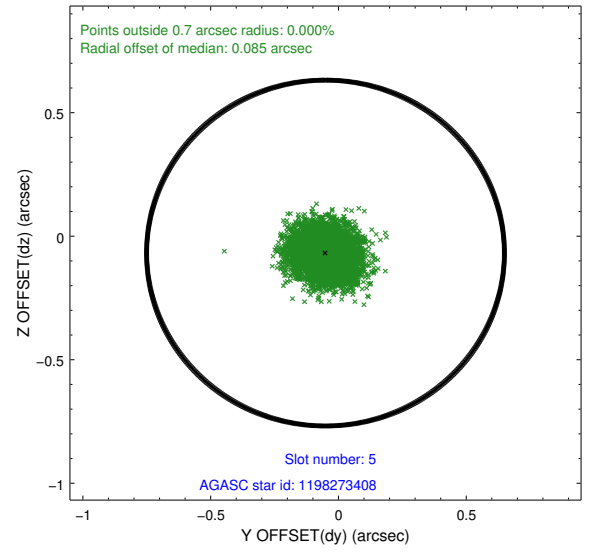
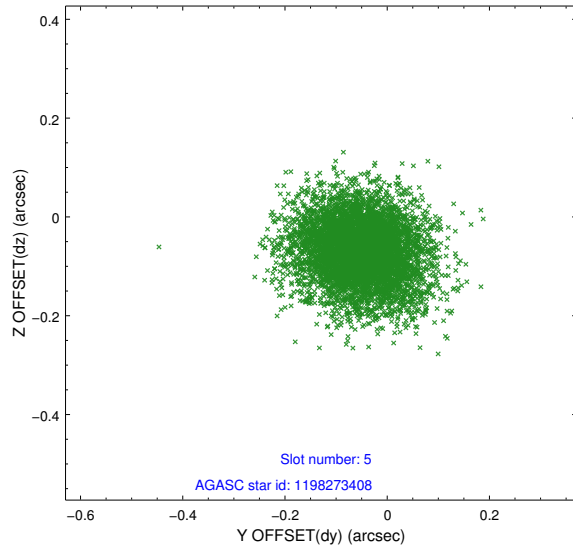
### 2.4.1 Slot 3



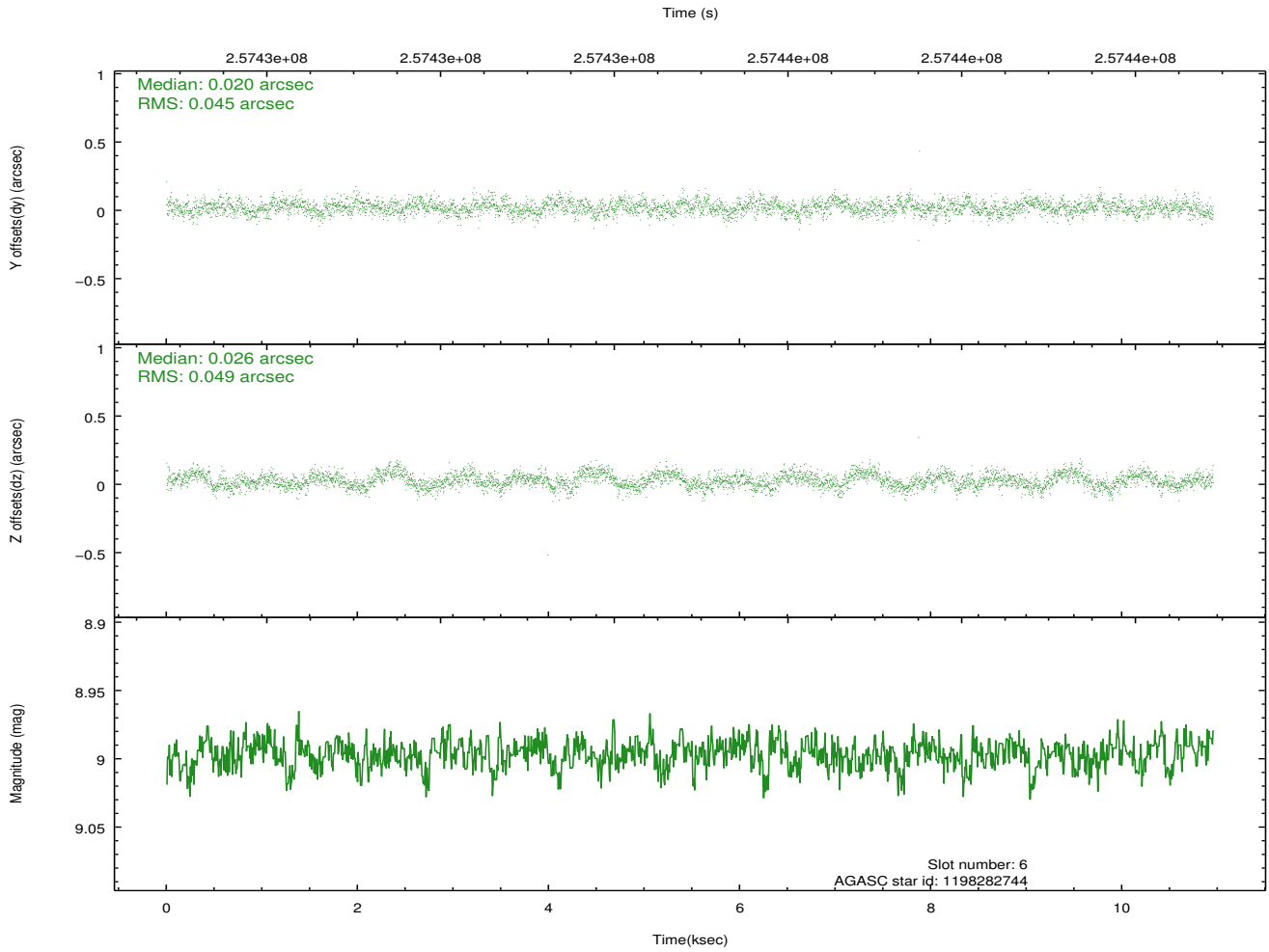
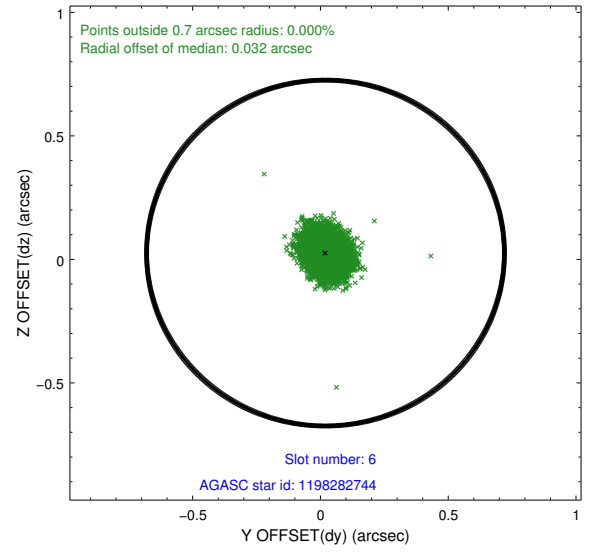
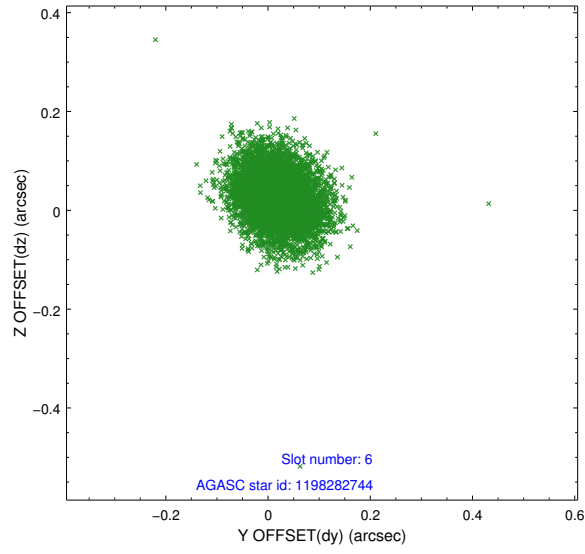
## 2.4.2 Slot 4



### 2.4.3 Slot 5

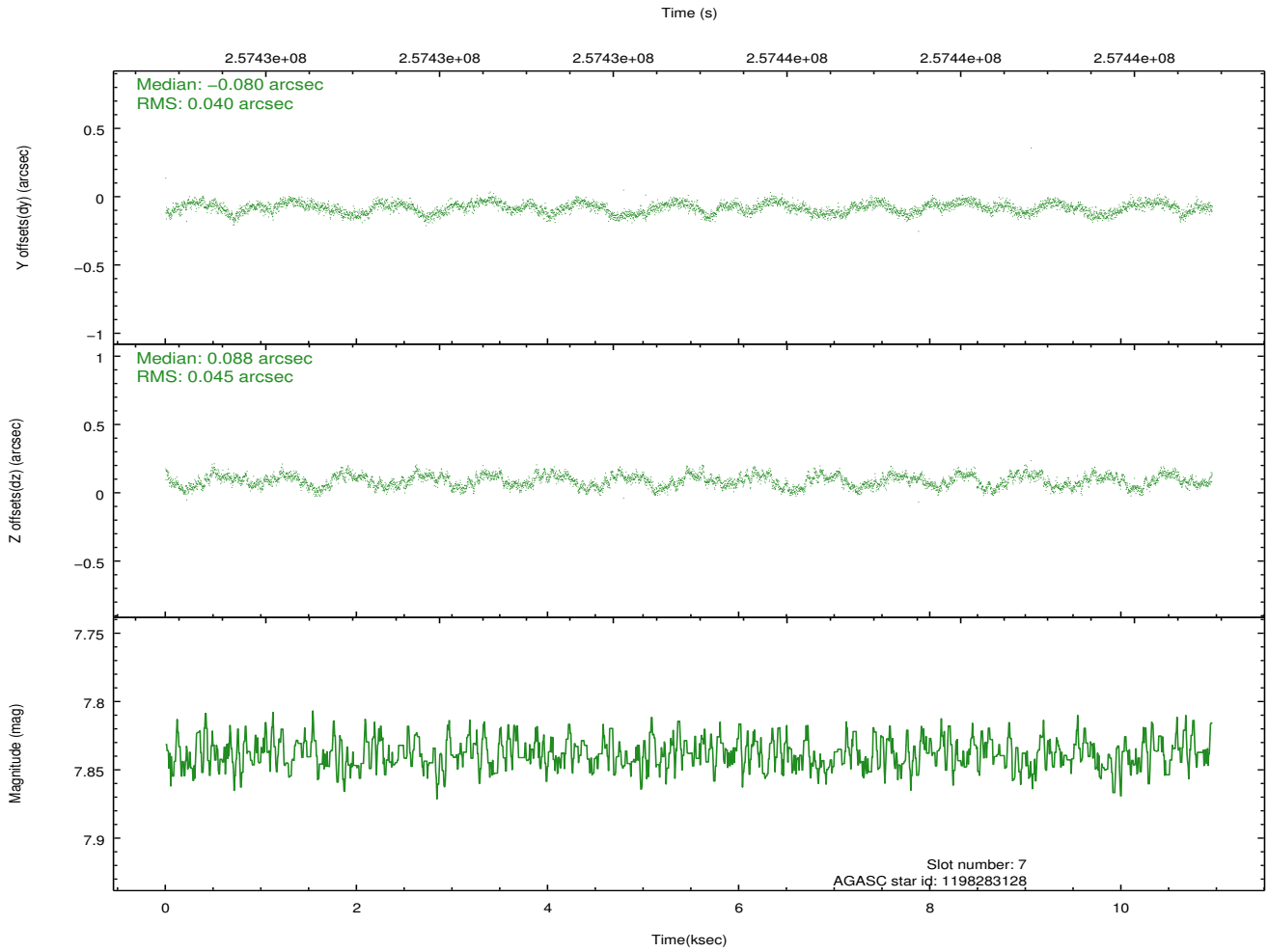
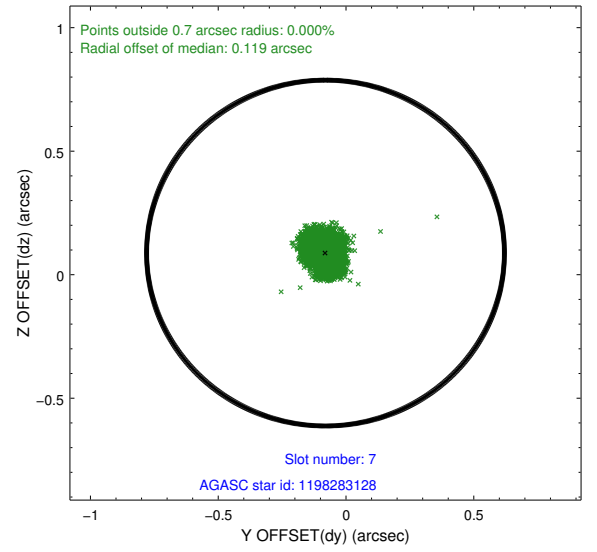
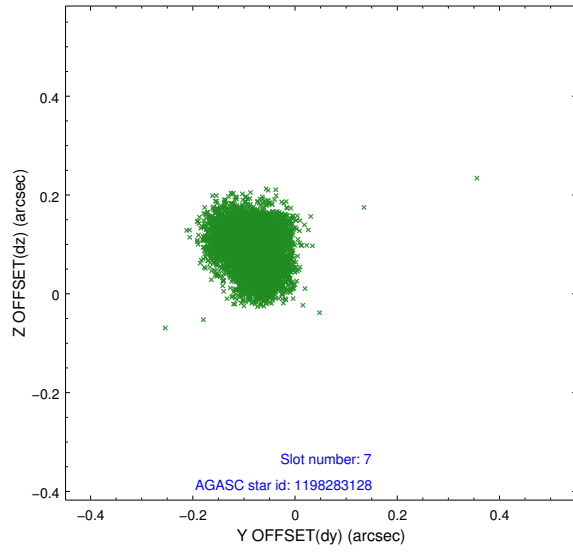


## 2.4.4 Slot 6



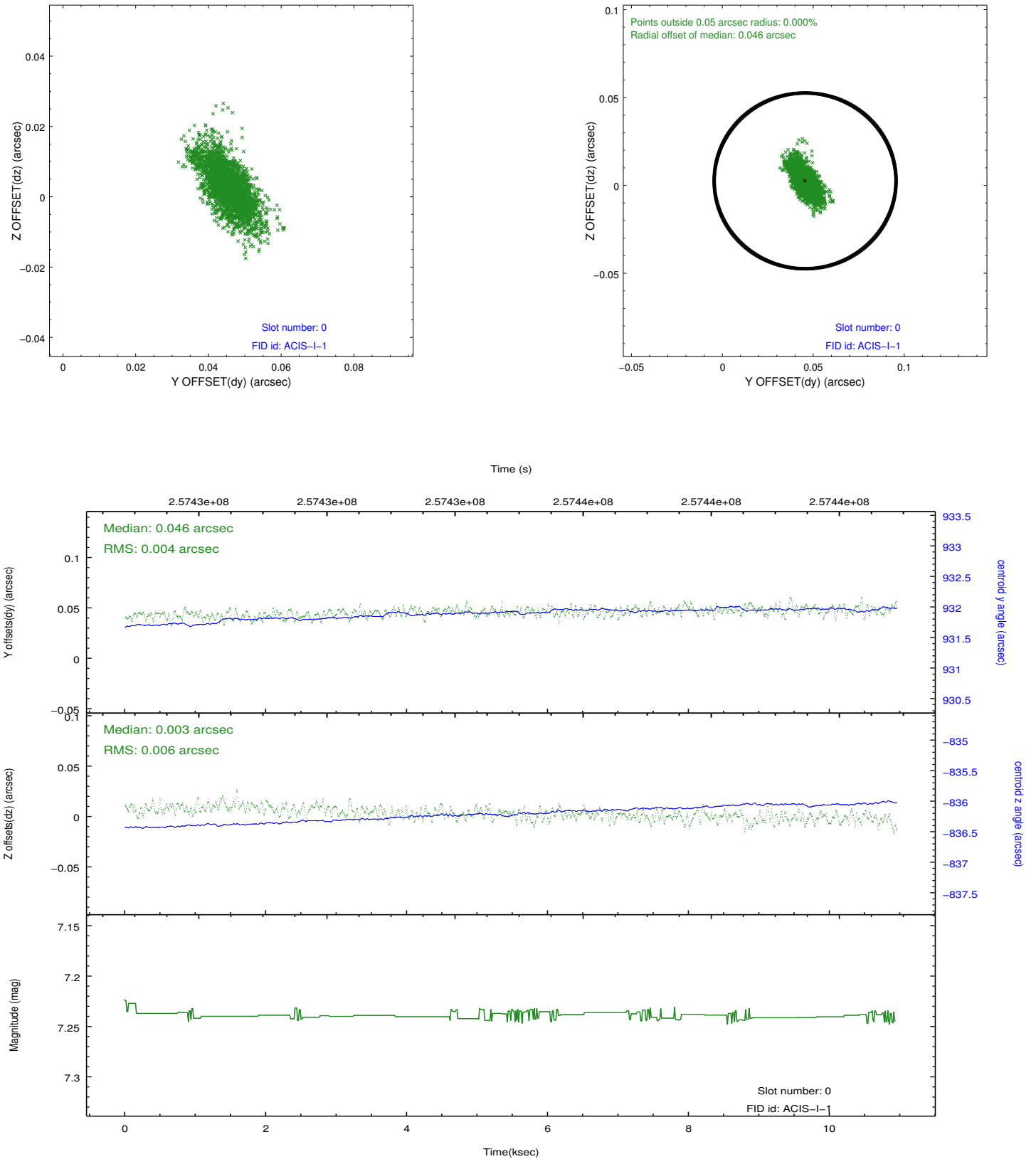


## 2.4.5 Slot 7

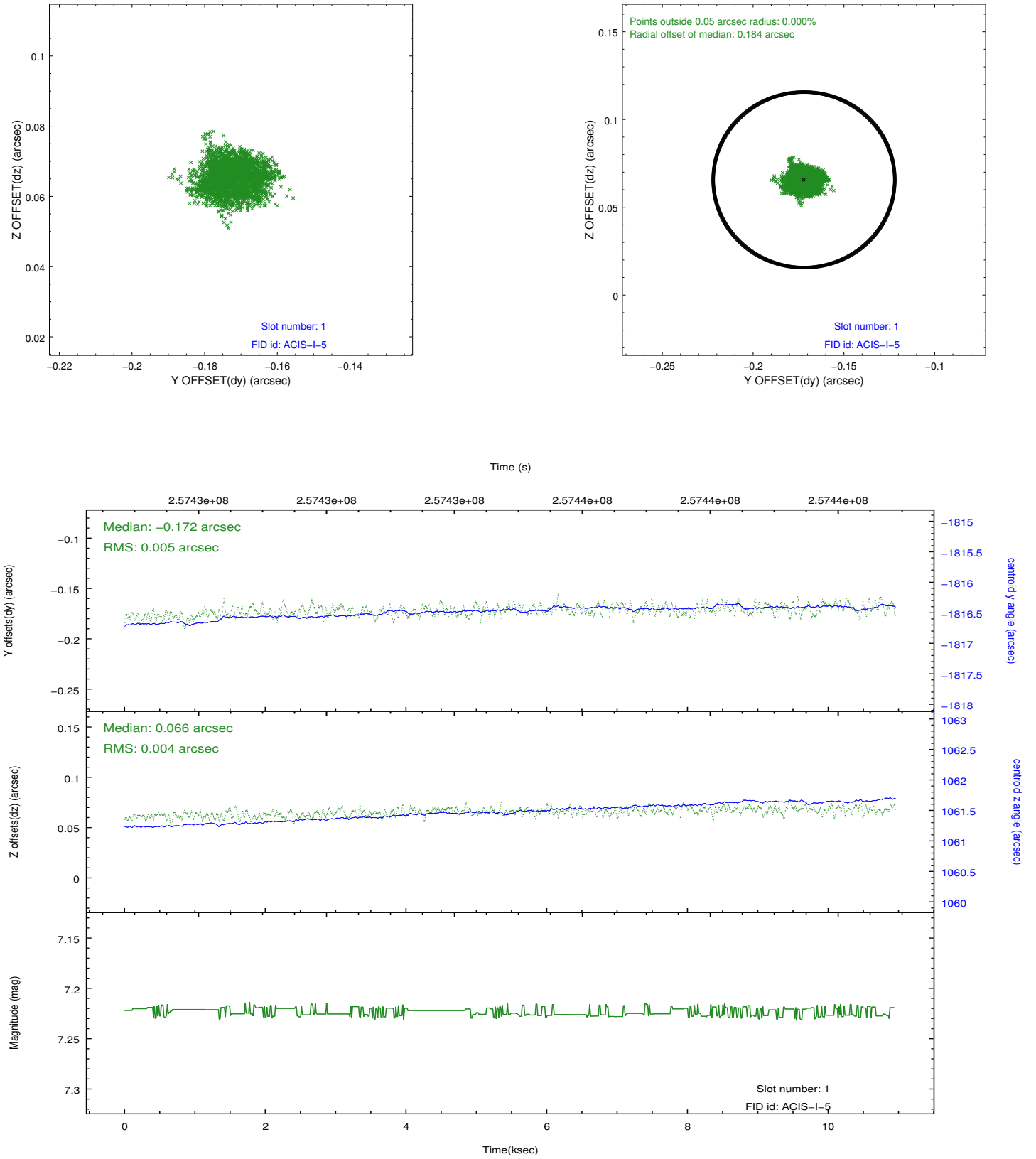


## 2.5 FID Slots

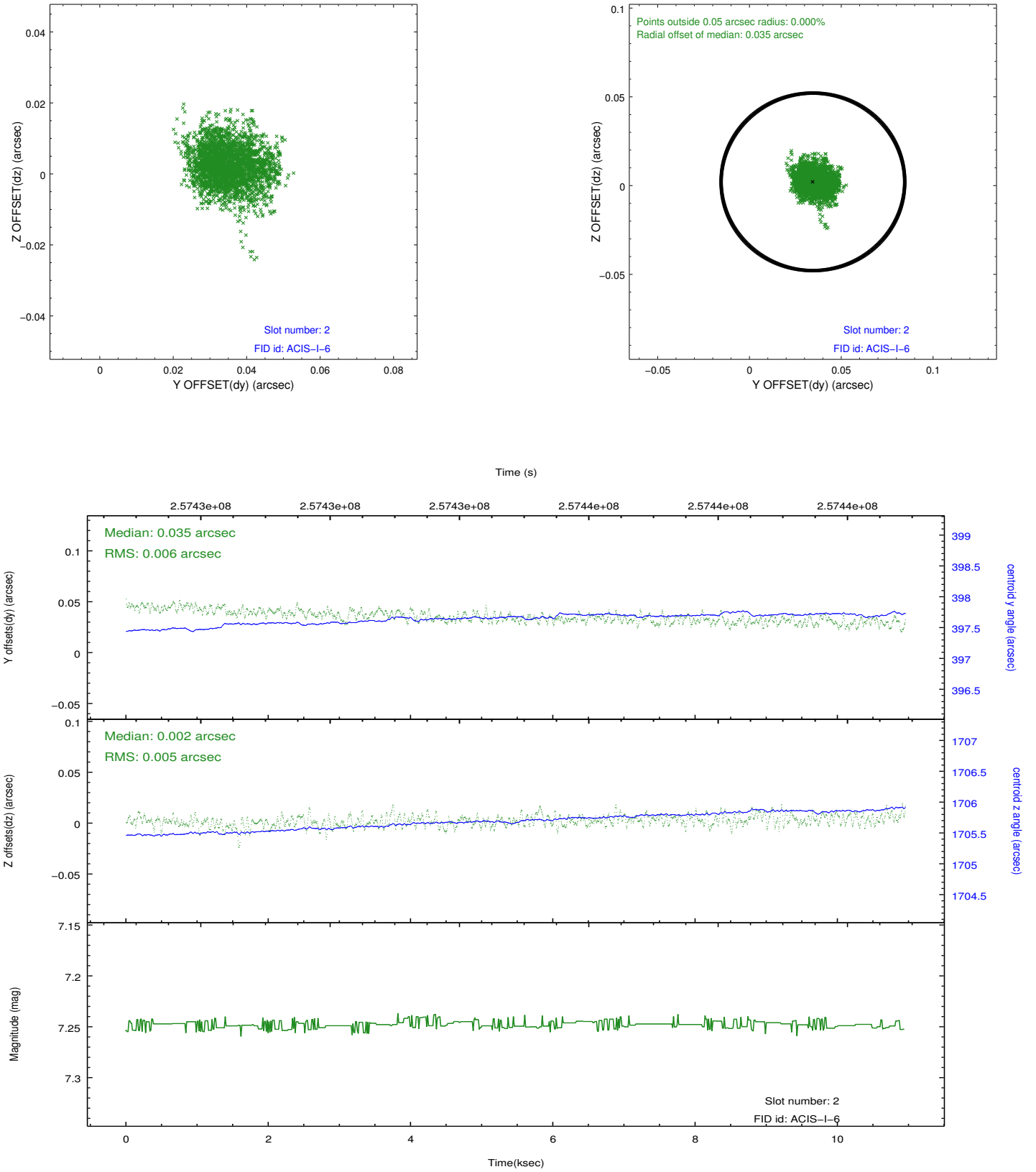
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.4543999

### A.2 Comments