

V&V Reference Report

L2 ASCDS Version : 7.6.11.2

Observation 800 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Nov 14 2007

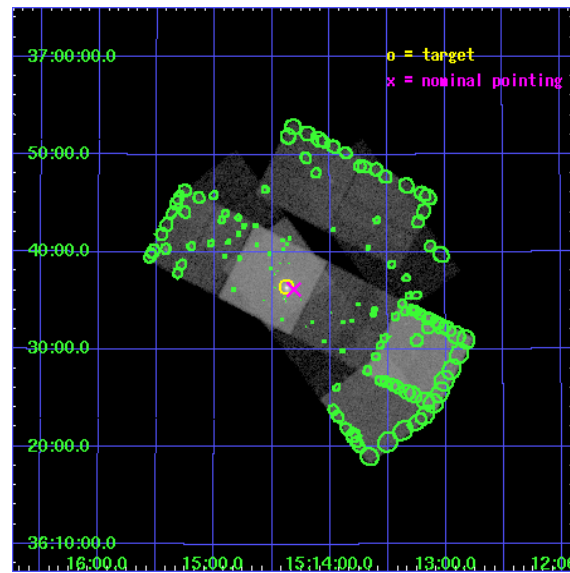
Contents

1	Front	3
2	OBI	4
2.1	OBI	4
2.1.1	Images	4
2.1.2	Bias	4
2.1.3	Parameters	5
2.1.4	Events	5
2.2	Compared Parameters	6
2.3	Aspect	7
2.4	Star Slots	10
2.4.1	Slot 3	10
2.4.2	Slot 4	11
2.4.3	Slot 5	12
2.4.4	Slot 6	13
2.4.5	Slot 7	14
2.5	FID Slots	15
2.5.1	Slot 0	15
2.5.2	Slot 1	16
2.5.3	Slot 2	17
3	OBI	18
3.1	OBI	18
3.1.1	Images	18
3.1.2	Bias	18
3.1.3	Parameters	19
3.1.4	Events	19
3.2	Compared Parameters	20
3.3	Aspect	21
3.4	Star Slots	24
3.4.1	Slot 3	24
3.4.2	Slot 4	25
3.4.3	Slot 5	26
3.4.4	Slot 6	27

3.4.5	Slot 7	28
3.5	FID Slots	29
3.5.1	Slot 0	29
3.5.2	Slot 1	30
3.5.3	Slot 2	31
4	Point Sources	32
A	Summary	33
A.1	Status	33
A.2	Comments	33

1 Front

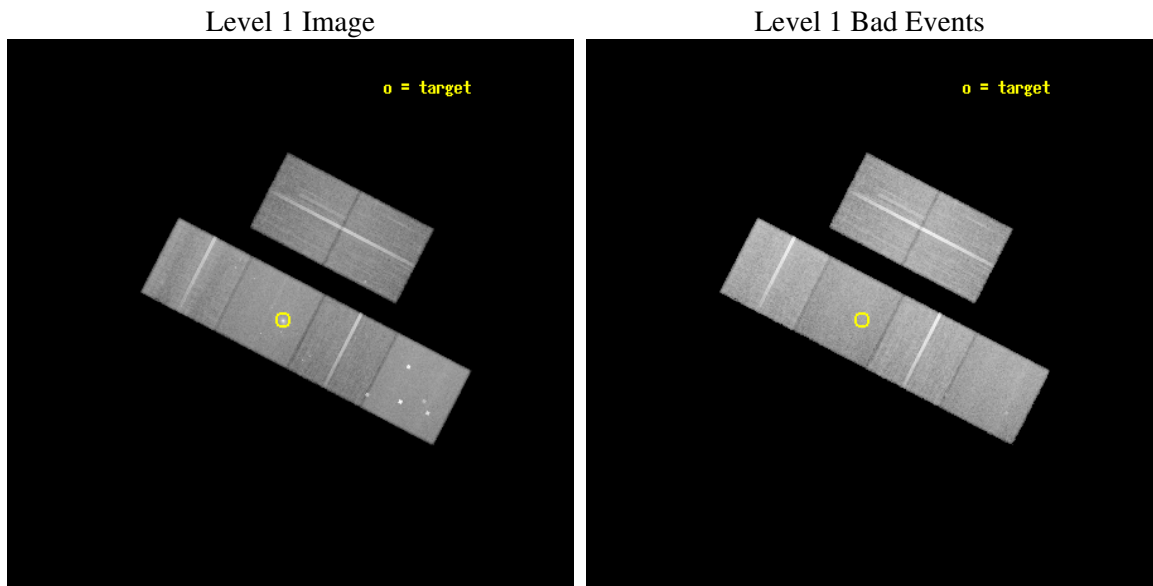
seq_num	600103
obs_id	800
title	FIRST OBSERVATIONS OF A LYMAN BREAK GALAXY AT X-RAY WAVELENGTHS
observer	Dr Omar Almaini
object	CB 58
dtcycle	0
cycle	P
ra_targ	228.592917
dec_targ	36.607167
ra_nom	228.5778754711
dec_nom	36.602994828907
roll_nom	207.30985145044
revision	5
ontime	49600.000046194
livetime	48971.934980074
ontime2	49593.518225431
ontime3	49596.759085953
ontime5	49600.000046194
ontime6	49600.000046194
ontime7	49600.000046194
ontime8	49593.518265367
l2events	500728



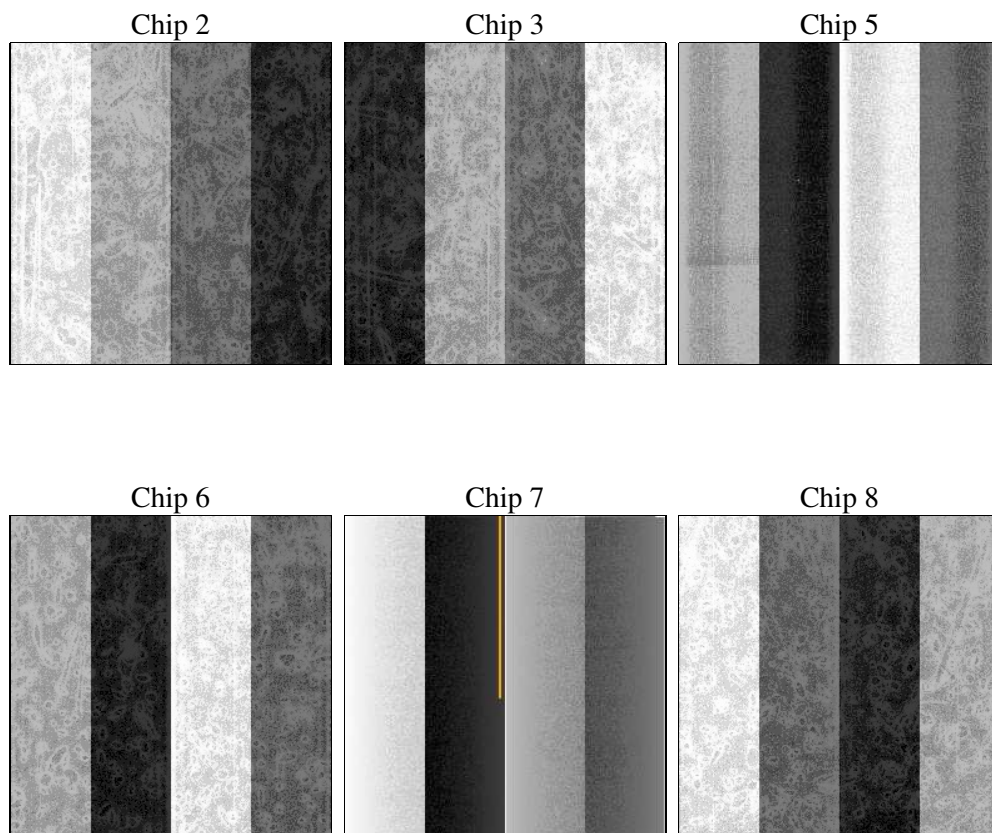
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-29T20:44:43
revision	3

sched_exp_time	37250.000000
ontime	36867.200034335
ontime2	36860.718213573
ontime3	36863.959074095
ontime5	36867.200034335
ontime6	36867.200034335
ontime7	36867.200034335
ontime8	36863.95907411
l1events	1694640

2.1.4 Events

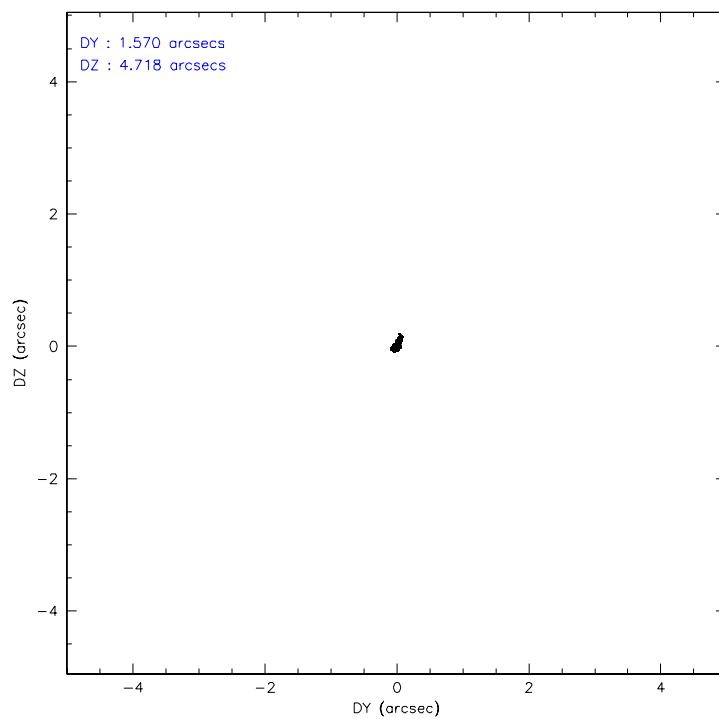
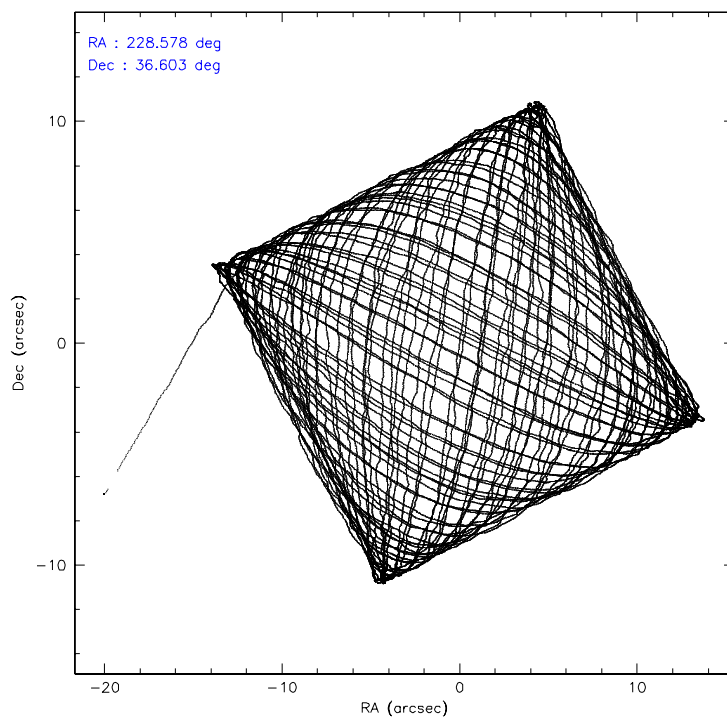
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	254052	244927	329126	246211	295684	324640
rejected events	225884	216929	169125	216781	162304	248497
rejected %	88%	88%	51%	88%	54%	76%

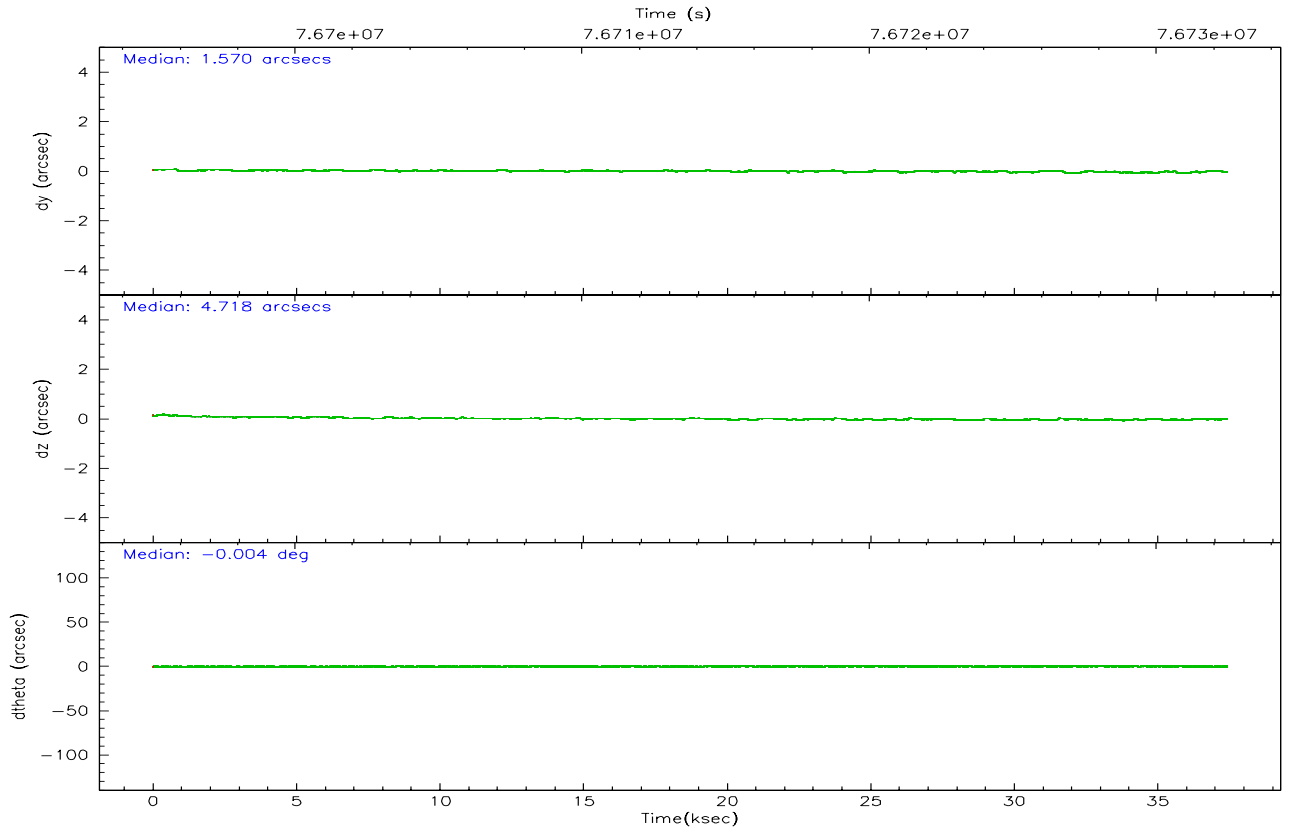
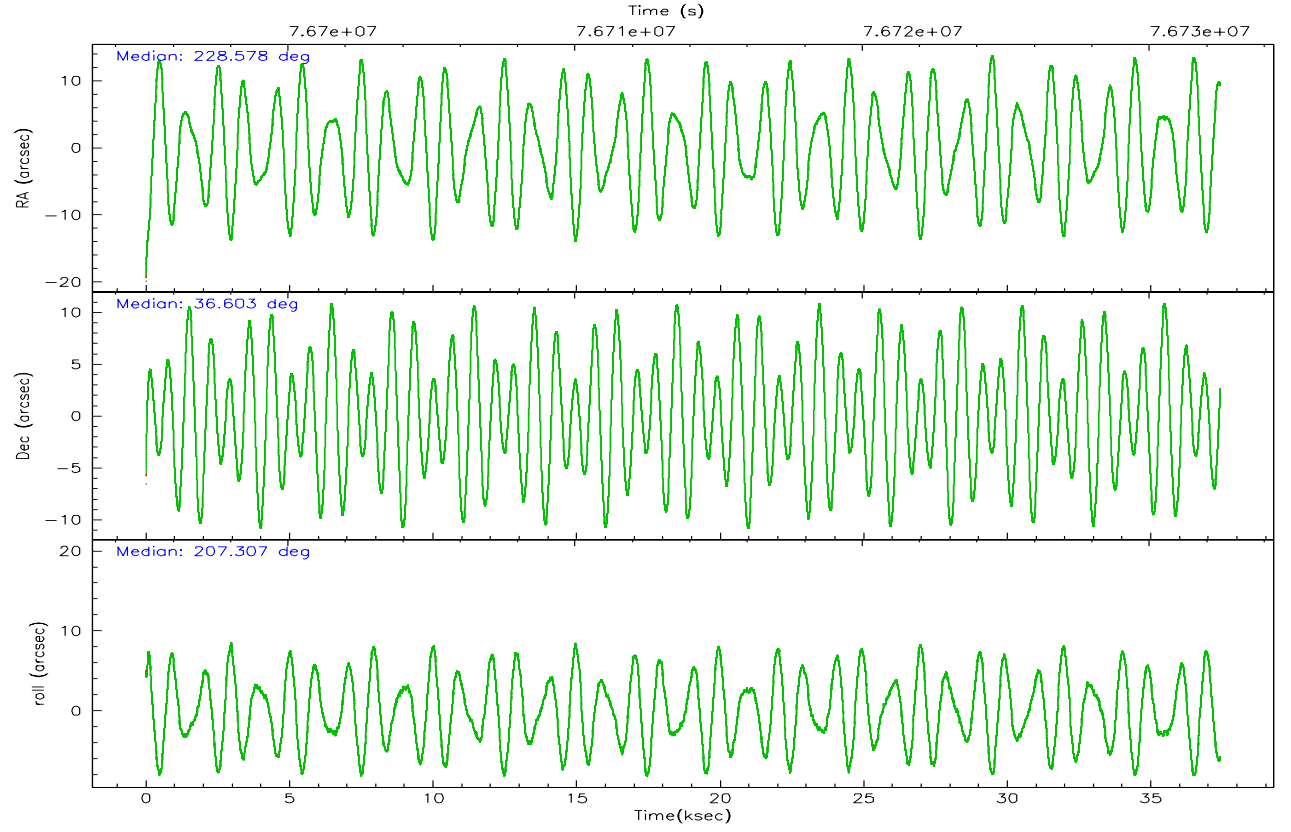
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	12162	12066	26870	12425	15742	26701
	4%	4%	8%	5%	5%	8%
grade 1 events	122	123	420	104	257	221
	0%	0%	0%	0%	0%	0%
grade 2 events	5909	5789	44174	5985	26823	14255
	2%	2%	13%	2%	9%	4%
grade 3 events	2533	2536	6982	2725	12444	9554
	0%	1%	2%	1%	4%	2%
grade 4 events	2629	2580	6719	2804	12357	8753
	1%	1%	2%	1%	4%	2%
grade 5 events	7543	7970	23807	8992	27074	11547
	2%	3%	7%	3%	9%	3%
grade 6 events	4945	5031	75284	5495	66039	16890
	1%	2%	22%	2%	22%	5%
grade 7 events	218209	208832	144870	207681	134948	236719
	85%	85%	44%	84%	45%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	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
Pointing RA	228.596211	228.5778754710957	Subarray requested	NONE	NONE
Pointing Dec	36.626133	36.60299482890701	Alternating exposures requested	N	N
Pointing Roll	207.142285	207.3098514504438	Primary exposure time	3.200000	3.2
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	76695223.184000	76694026.037267			
Observation start date	2000-06-06T16:12:39	2000-06-06T15:53:46			
Observation end time	76732473.184000	76733357.851215			
Observation end date	2000-06-07T02:33:29	2000-06-07T02:49:17			
Read mode	TIMED	TIMED			

2.3 Aspect



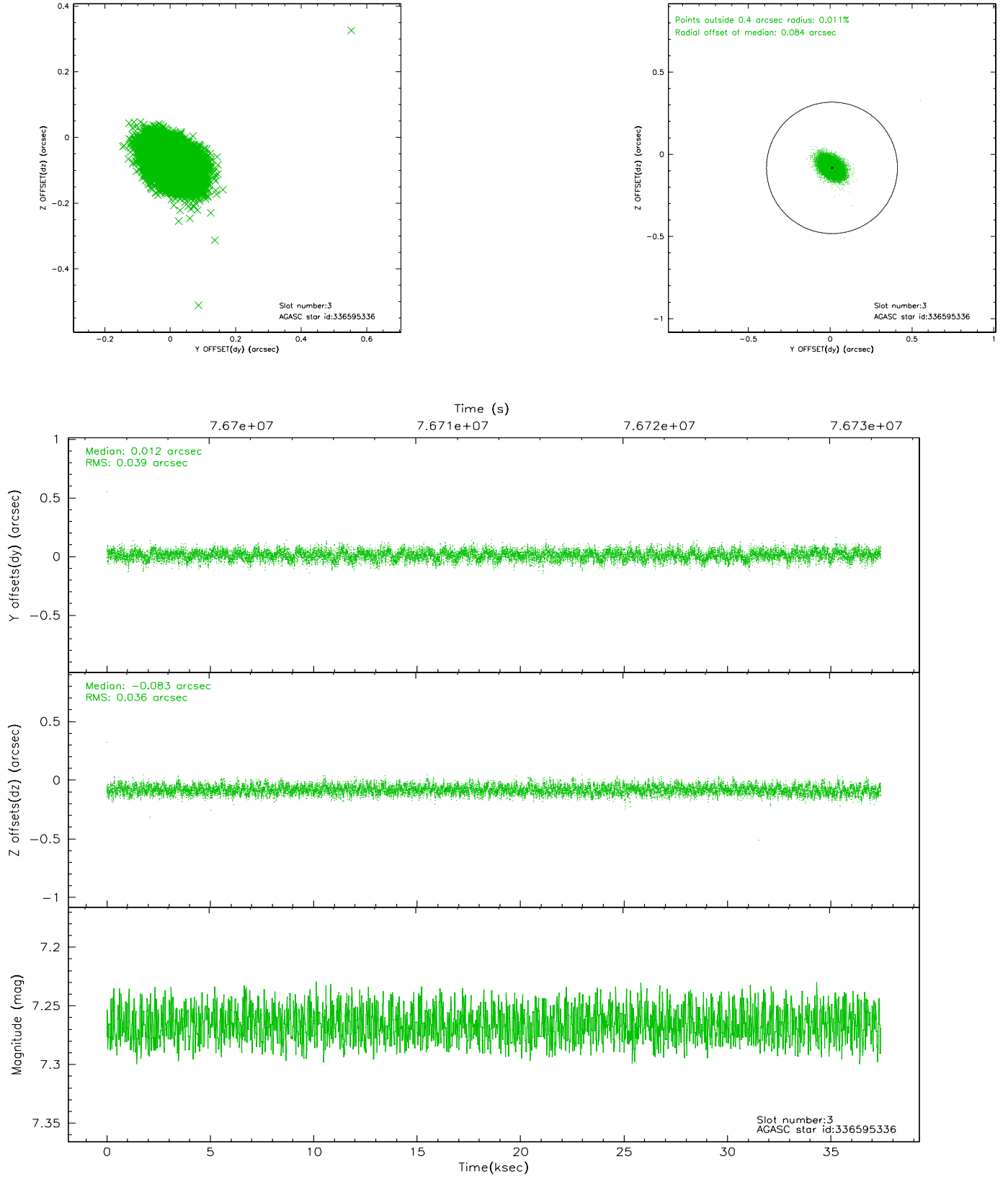


Slot Statistics

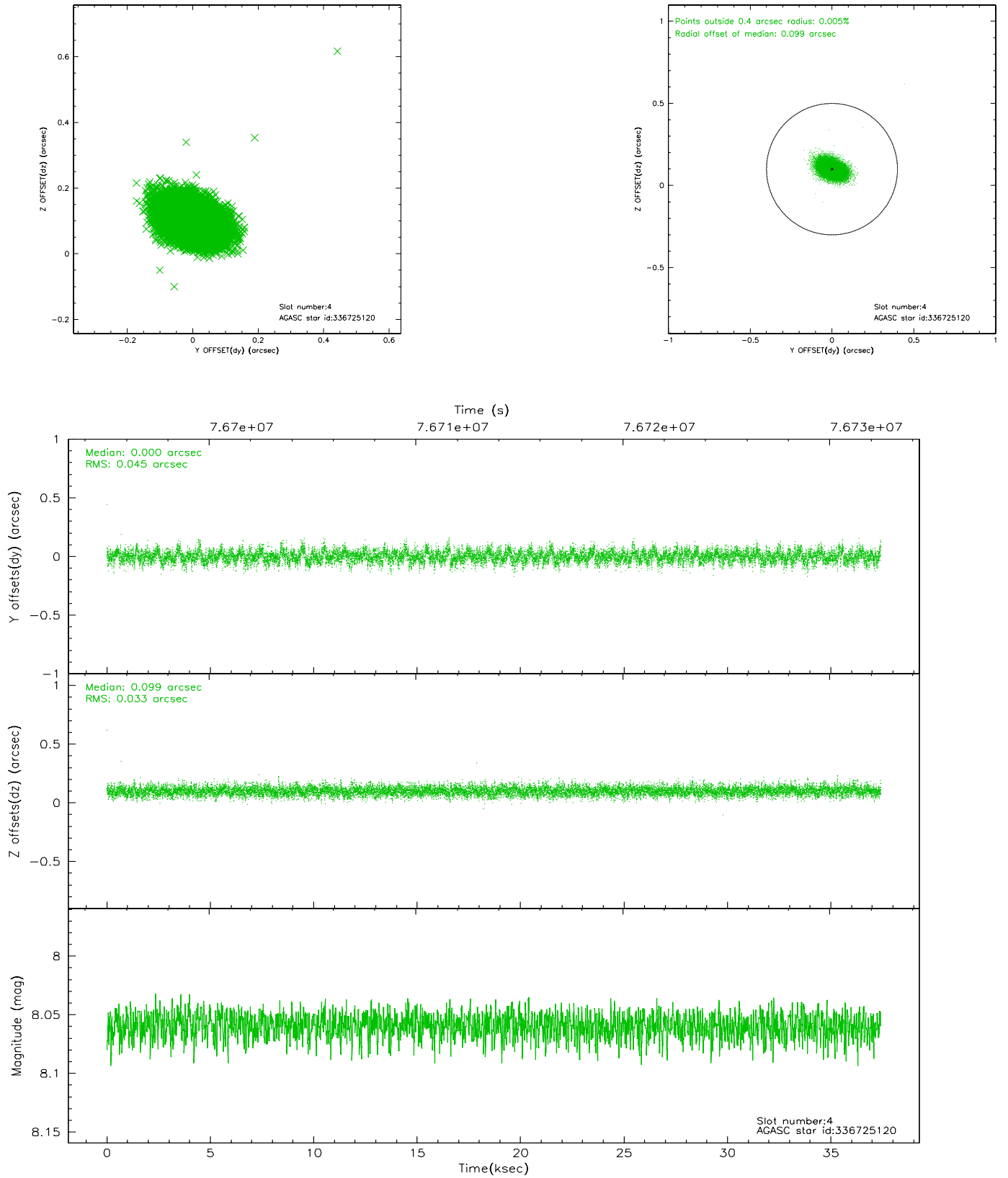
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	9125	-0.020	0.016	0.006	0.011	0.000000	0.000000	-754.19	-1725.82
1	FID	ACIS-S-4	7.21	9126	-0.043	0.005	0.005	0.009	0.000000	0.000000	2159.05	182.63
2	FID	ACIS-S-5	7.24	9125	0.032	-0.012	0.006	0.010	0.000000	0.000000	-1806.95	176.31
3	GUIDE	336595336	7.27	18251	0.012	-0.083	0.056	0.092	227.990011	36.754719	1342.76	-1214.59
4	GUIDE	336725120	8.06	18250	0.000	0.099	0.059	0.099	228.143592	35.971610	2247.50	1492.63
5	GUIDE	336725632	8.42	18187	-0.002	0.039	0.065	0.107	228.763557	36.830212	-763.92	-434.09
6	GUIDE	336727824	9.32	18239	0.086	0.014	0.077	0.128	228.394165	36.137468	1325.40	1297.00
7	GUIDE	336724656	9.50	18244	-0.096	-0.068	0.081	0.132	228.987544	37.238496	-2004.43	-1452.22

2.4 Star Slots

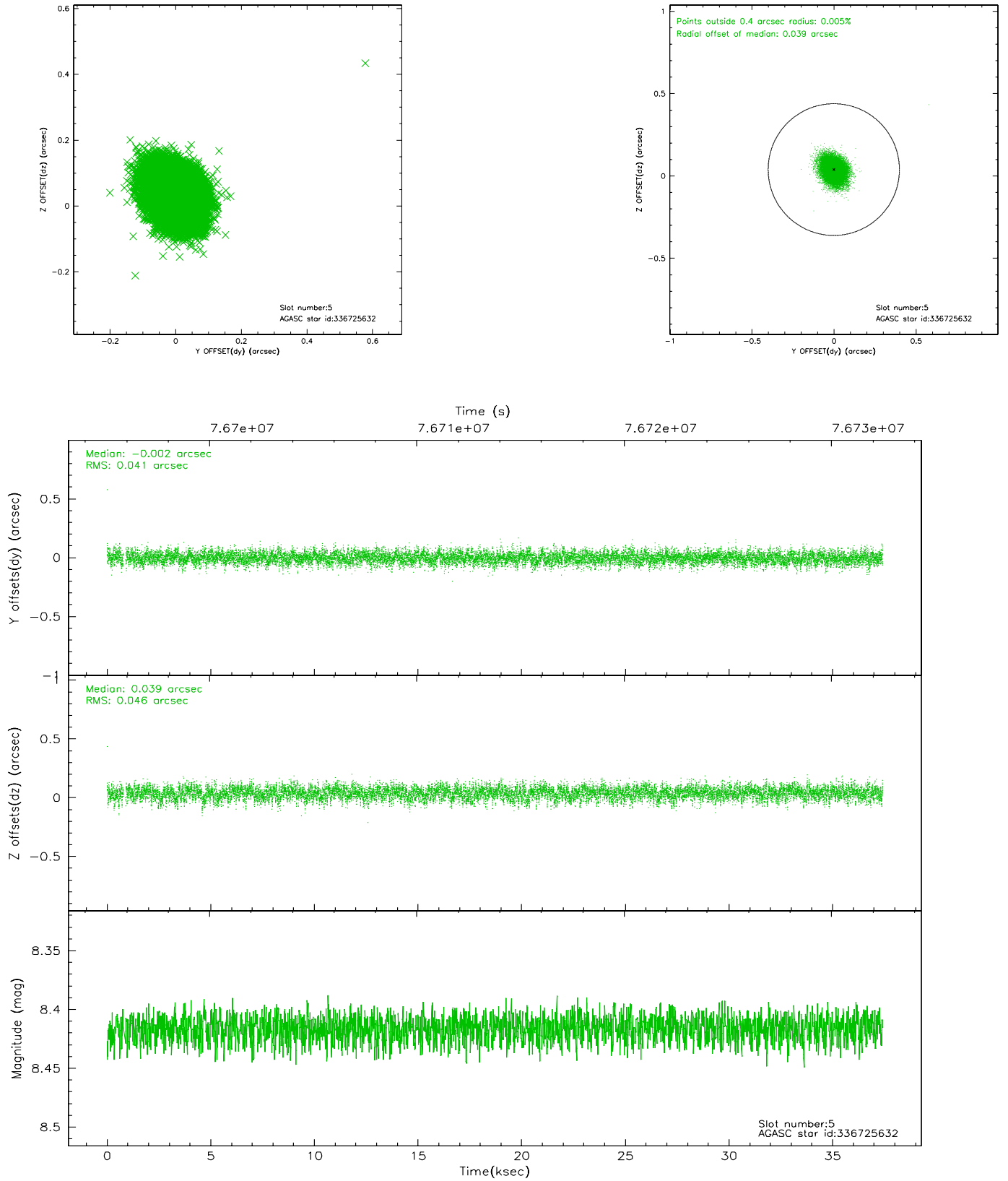
2.4.1 Slot 3



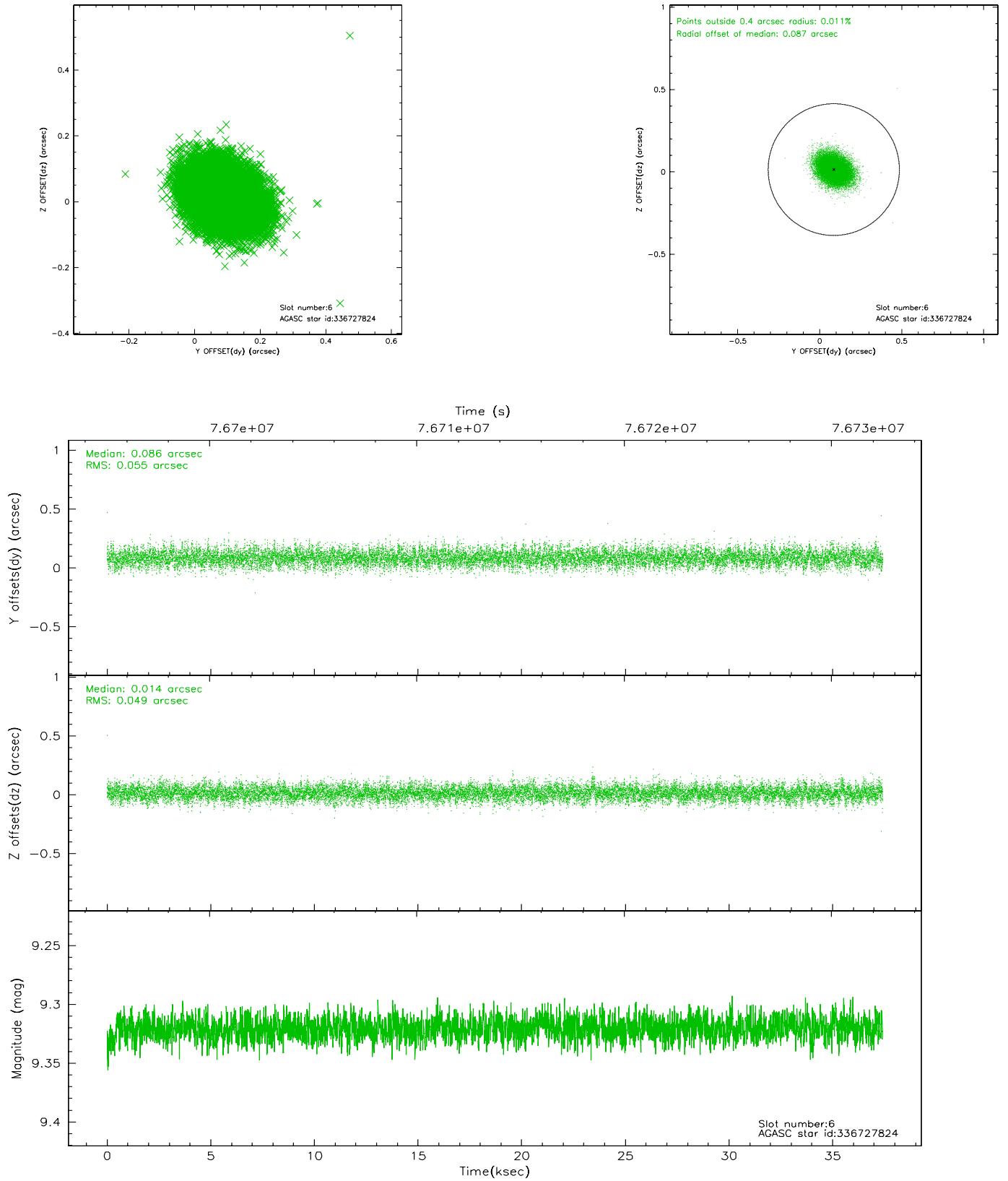
2.4.2 Slot 4



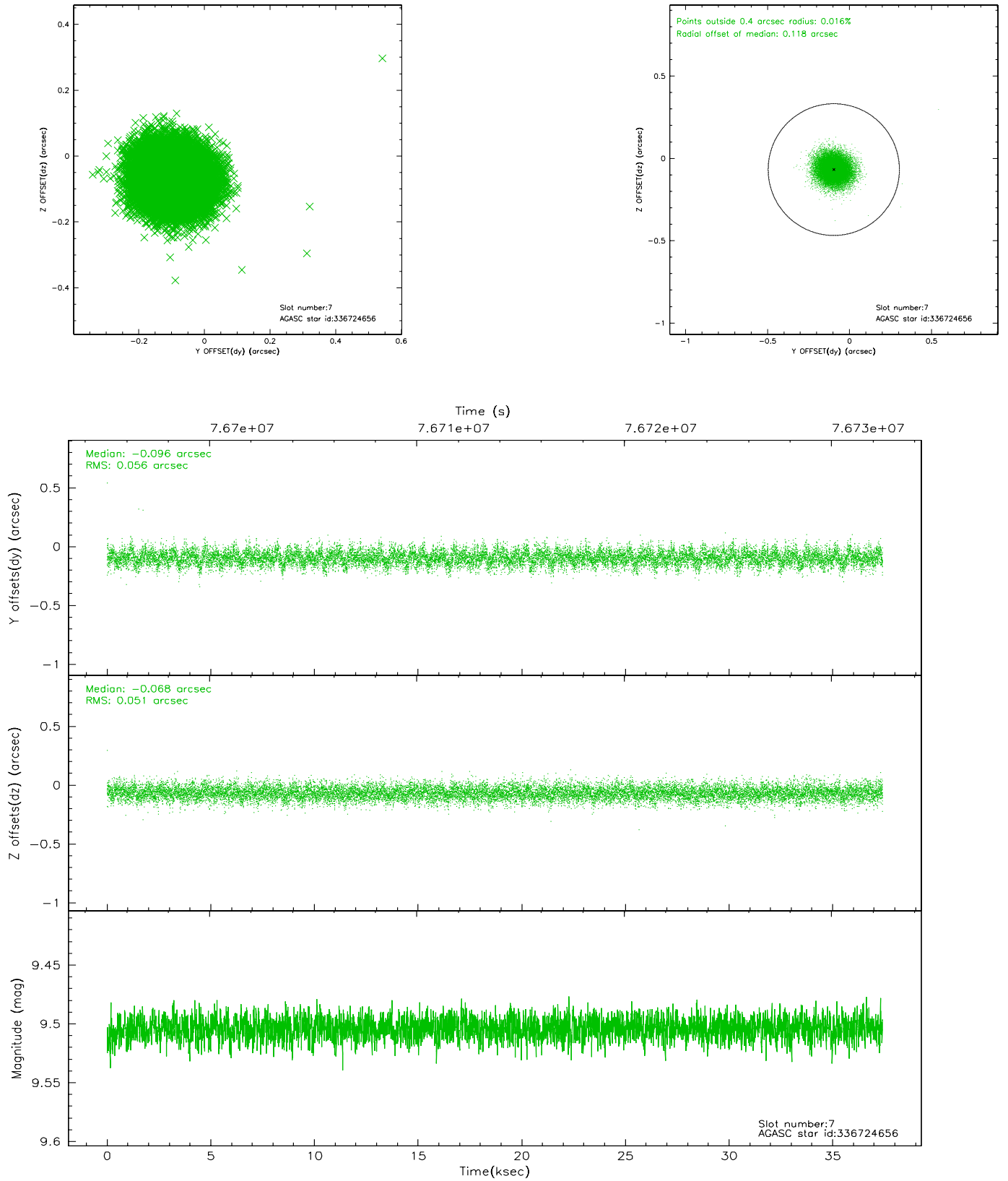
2.4.3 Slot 5



2.4.4 Slot 6

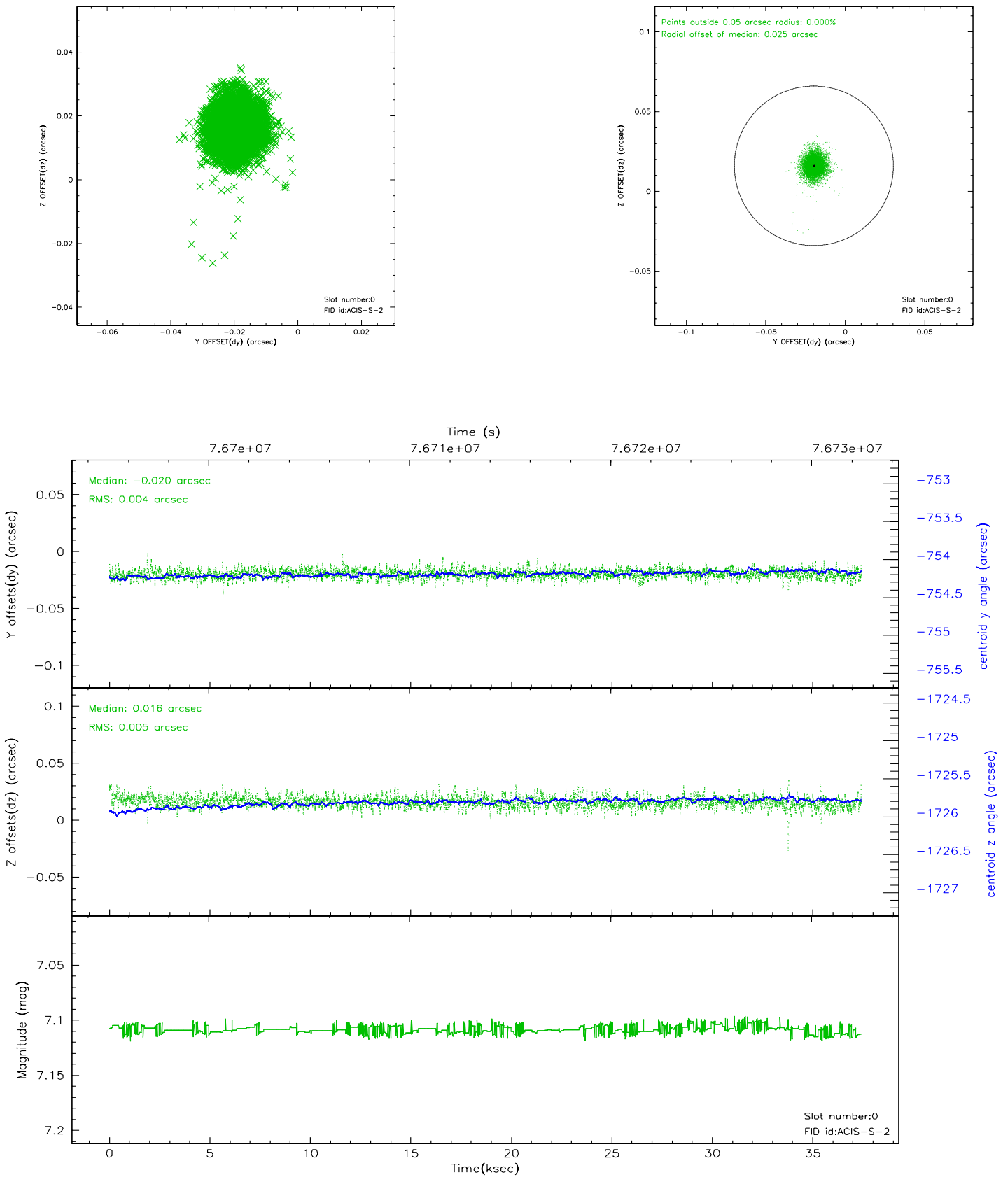


2.4.5 Slot 7

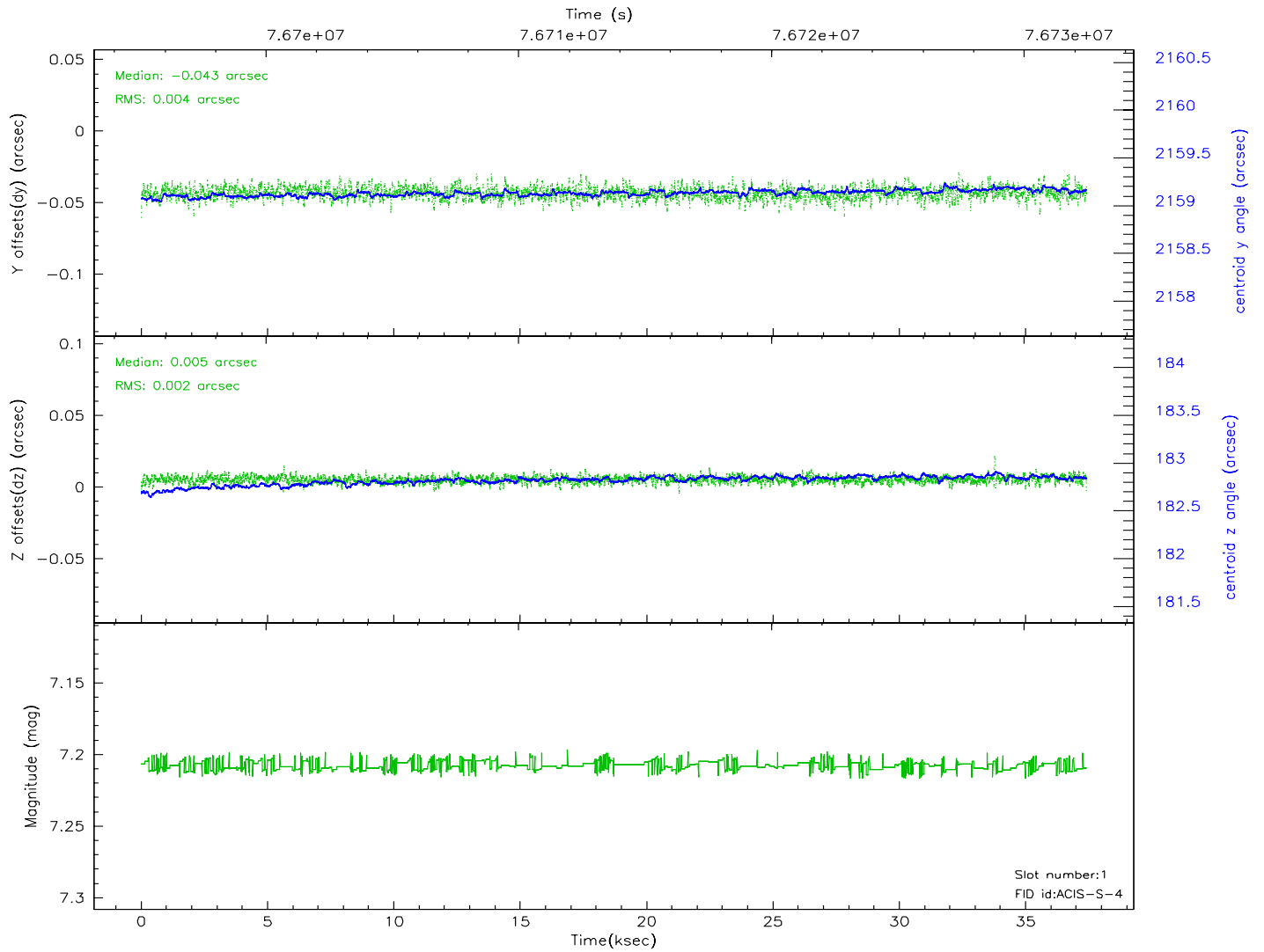
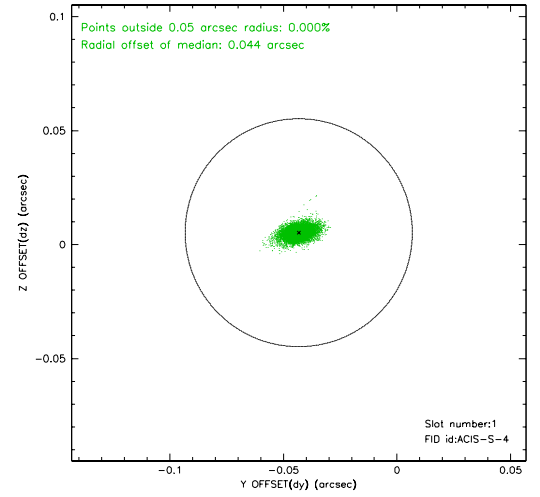
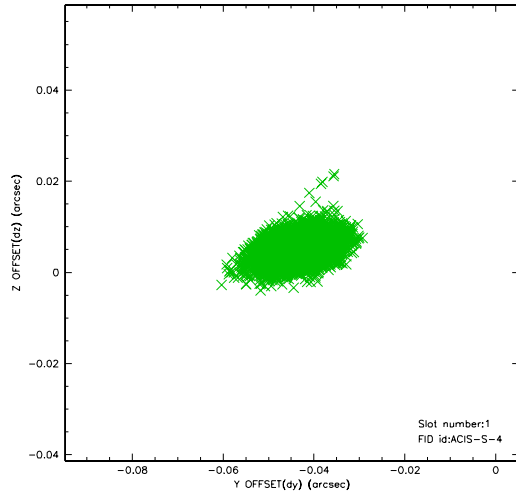


2.5 FID Slots

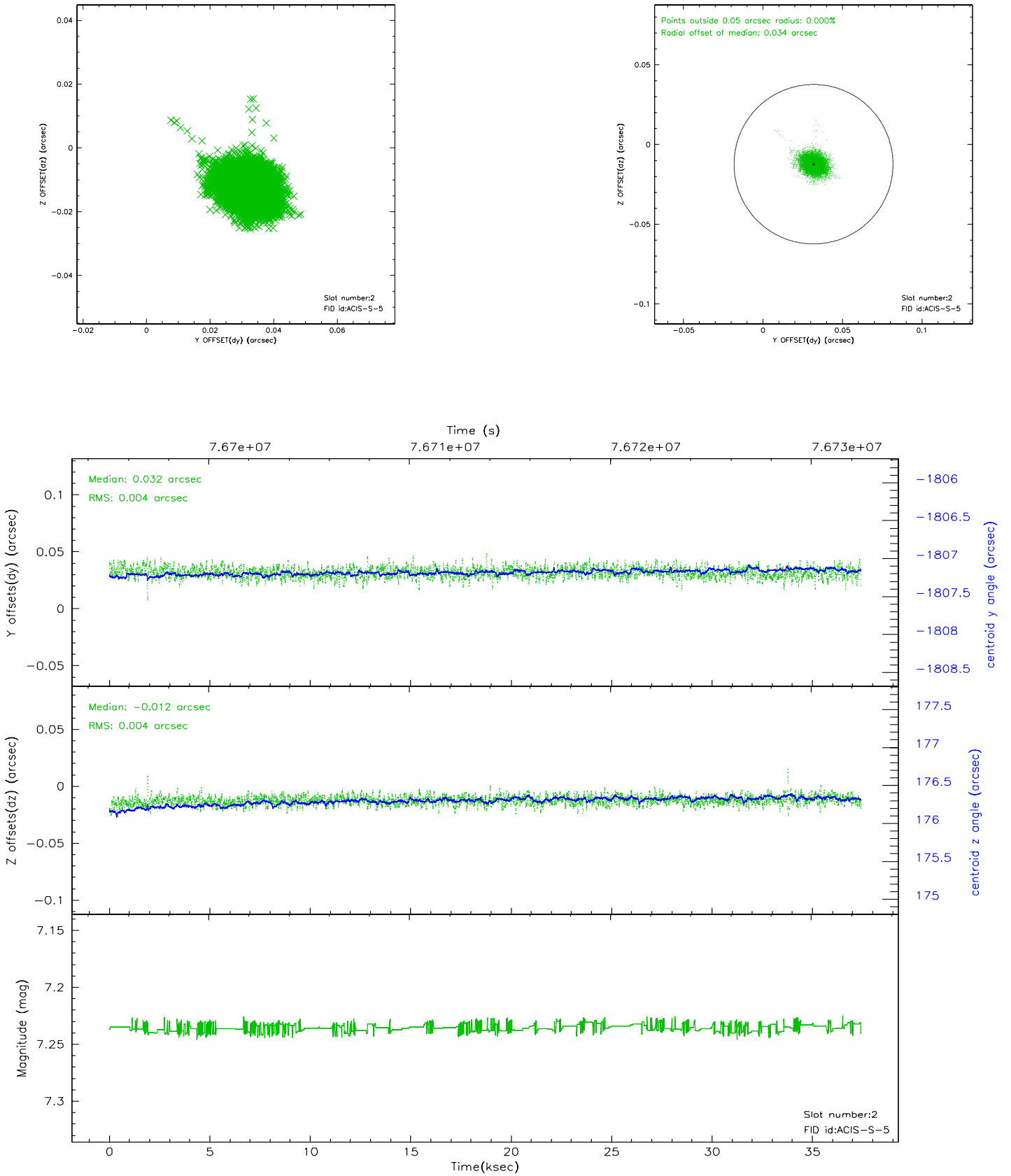
2.5.1 Slot 0



2.5.2 Slot 1



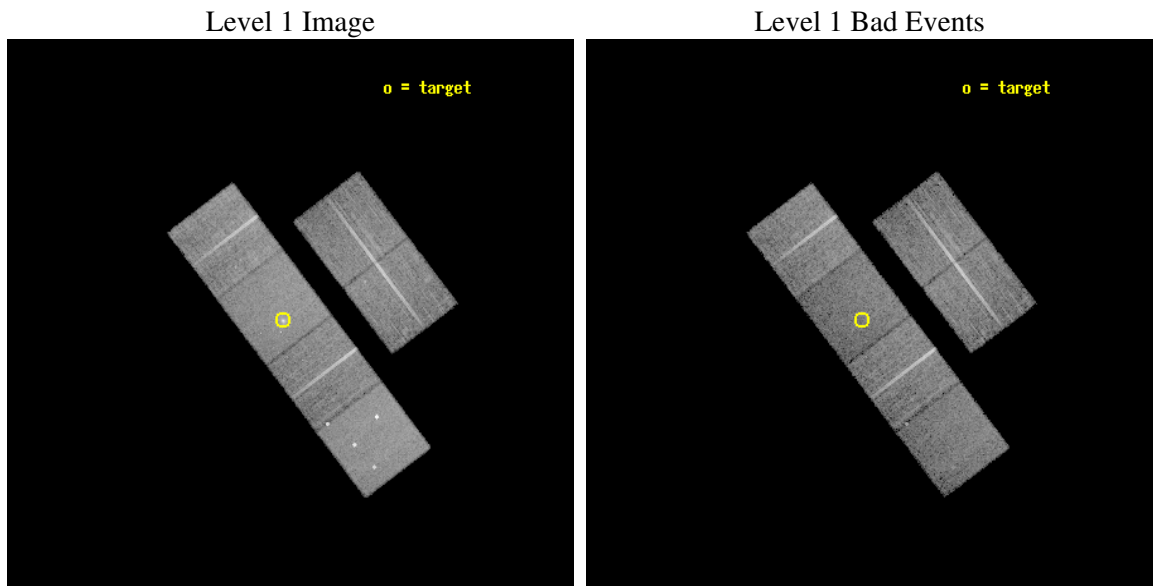
2.5.3 Slot 2



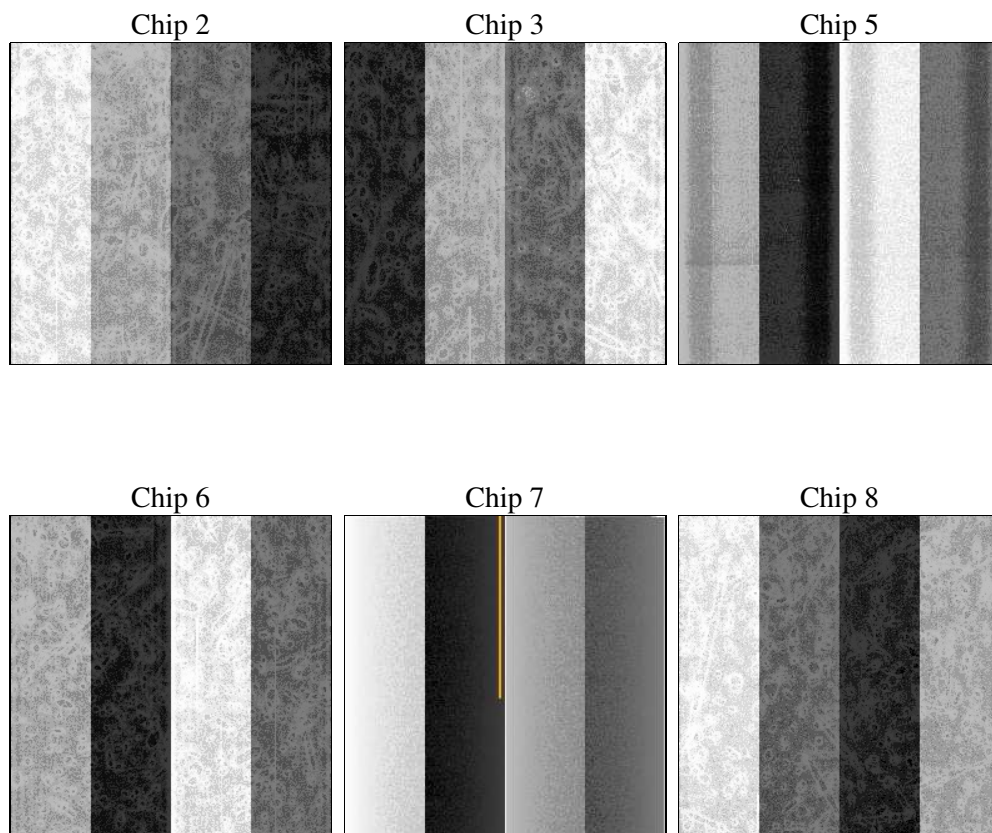
3 OBI

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	1
ascdsver	7.6.11.2
caldsver	3.4.1
date	2007-11-14T17:22:40
revision	4

sched_exp_time	12980.000000
ontime	12732.800011858
ontime2	12732.800011858
ontime3	12732.800011858
ontime5	12732.800011858
ontime6	12732.800011858
ontime7	12732.800011858
ontime8	12729.559191257
l1events	580961

3.1.4 Events

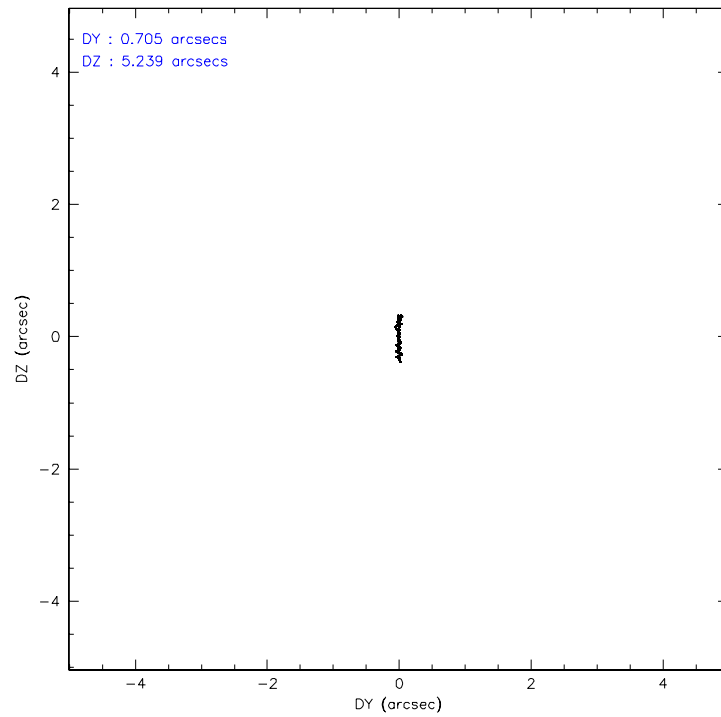
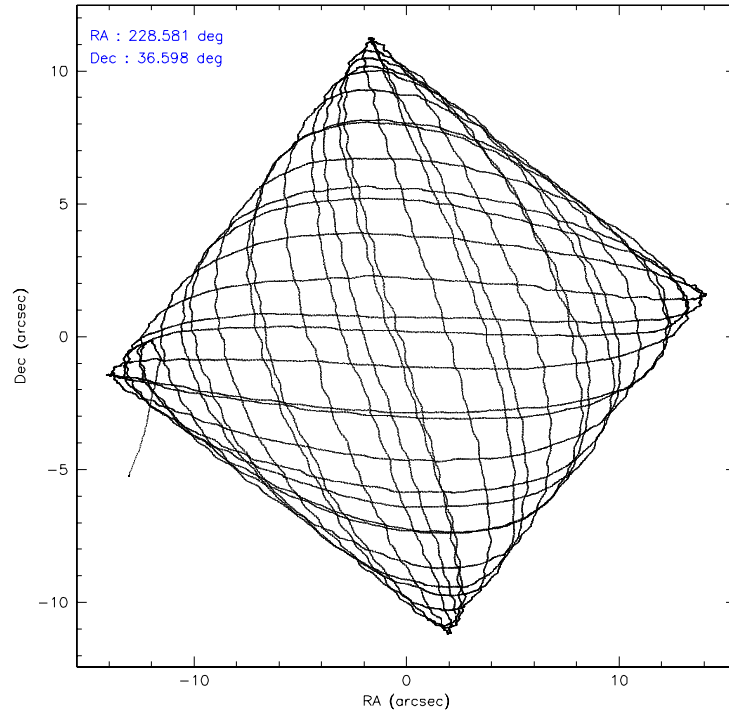
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	87557	83146	114448	86602	104067	105141
rejected events	78448	74216	58987	77250	57773	85443
rejected %	89%	89%	51%	89%	55%	81%

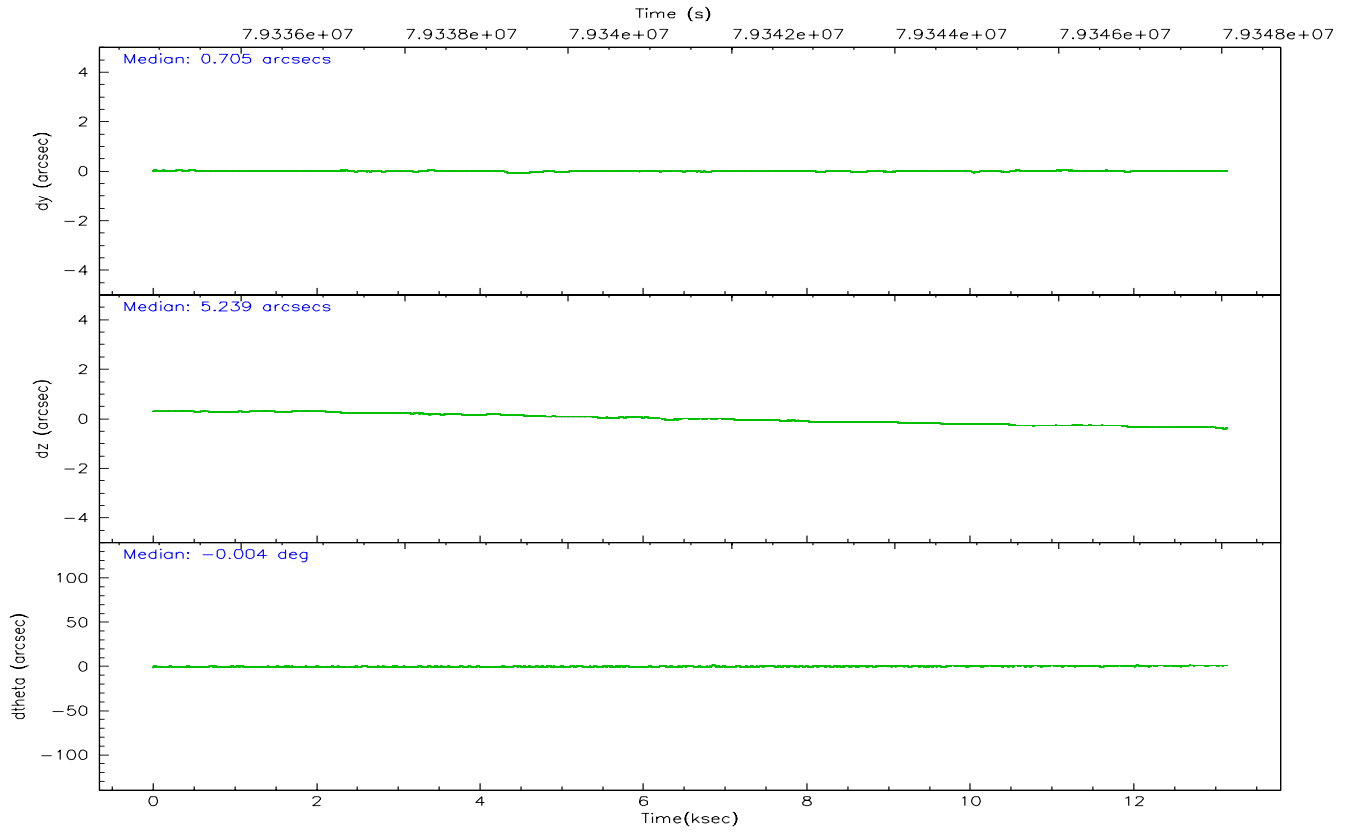
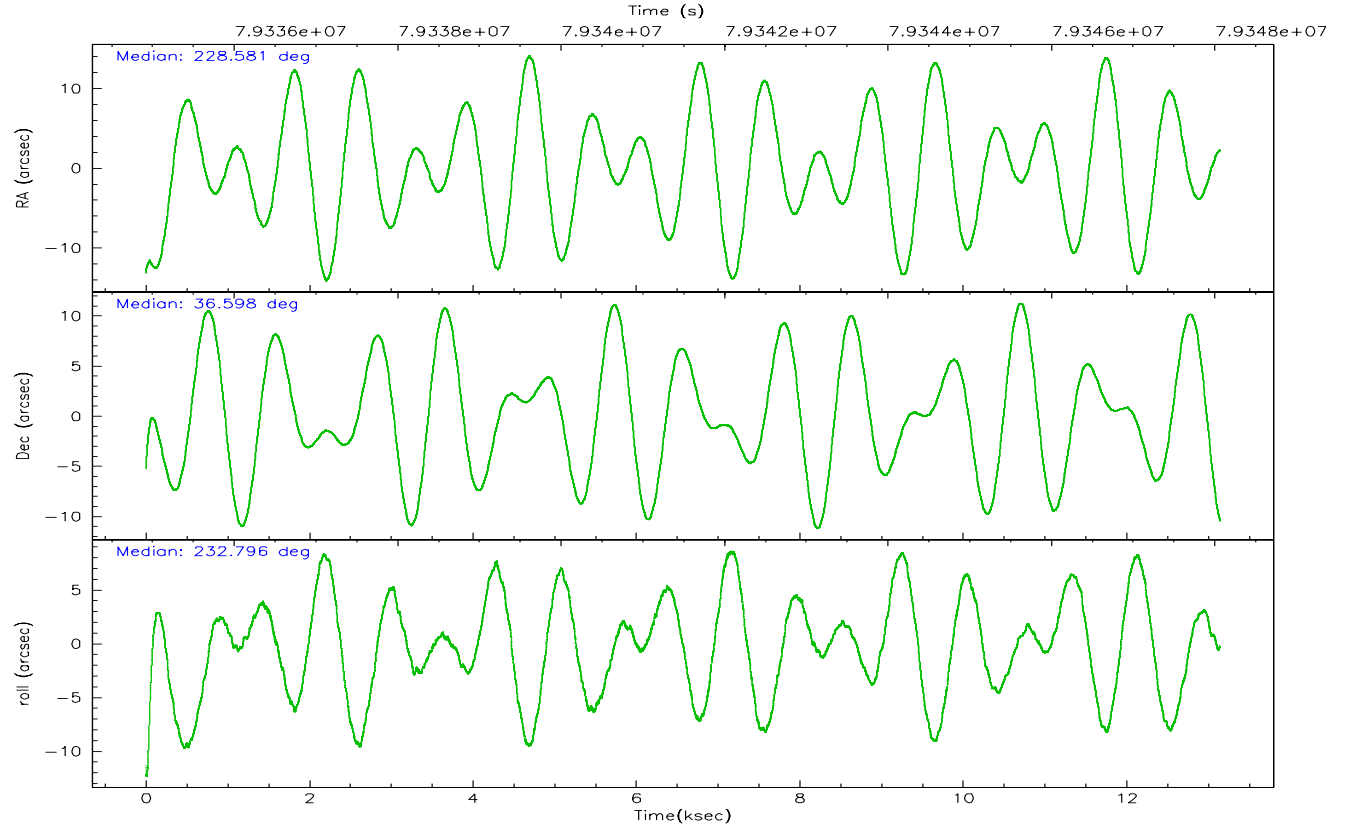
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	4007	3883	8557	3910	5361	6606
	4%	4%	7%	4%	5%	6%
grade 1 events	43	30	185	38	99	80
	0%	0%	0%	0%	0%	0%
grade 2 events	1884	1753	15468	1789	9080	4004
	2%	2%	13%	2%	8%	3%
grade 3 events	864	892	2568	918	4384	2283
	0%	1%	2%	1%	4%	2%
grade 4 events	865	844	2310	965	4280	2111
	0%	1%	2%	1%	4%	2%
grade 5 events	2590	2898	8627	3300	9541	4118
	2%	3%	7%	3%	9%	3%
grade 6 events	1492	1562	26583	1775	23211	4700
	1%	1%	23%	2%	22%	4%
grade 7 events	75812	71284	50150	73907	48111	81239
	86%	85%	43%	85%	46%	77%

3.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	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
Pointing RA	228.585718	228.5815800352119	Subarray requested	NONE	NONE
Pointing Dec	36.625413	36.59820740135448	Alternating exposures requested	N	N
Pointing Roll	232.642004	232.8010932811358	Primary exposure time	3.200000	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	79335085.184000	79334259.57205901			
Observation start date	2000-07-07T05:30:21	2000-07-07T05:17:39			
Observation end time	79348065.184000	79349115.92260601			
Observation end date	2000-07-07T09:06:41	2000-07-07T09:25:15			
Read mode	TIMED	TIMED			

3.3 Aspect



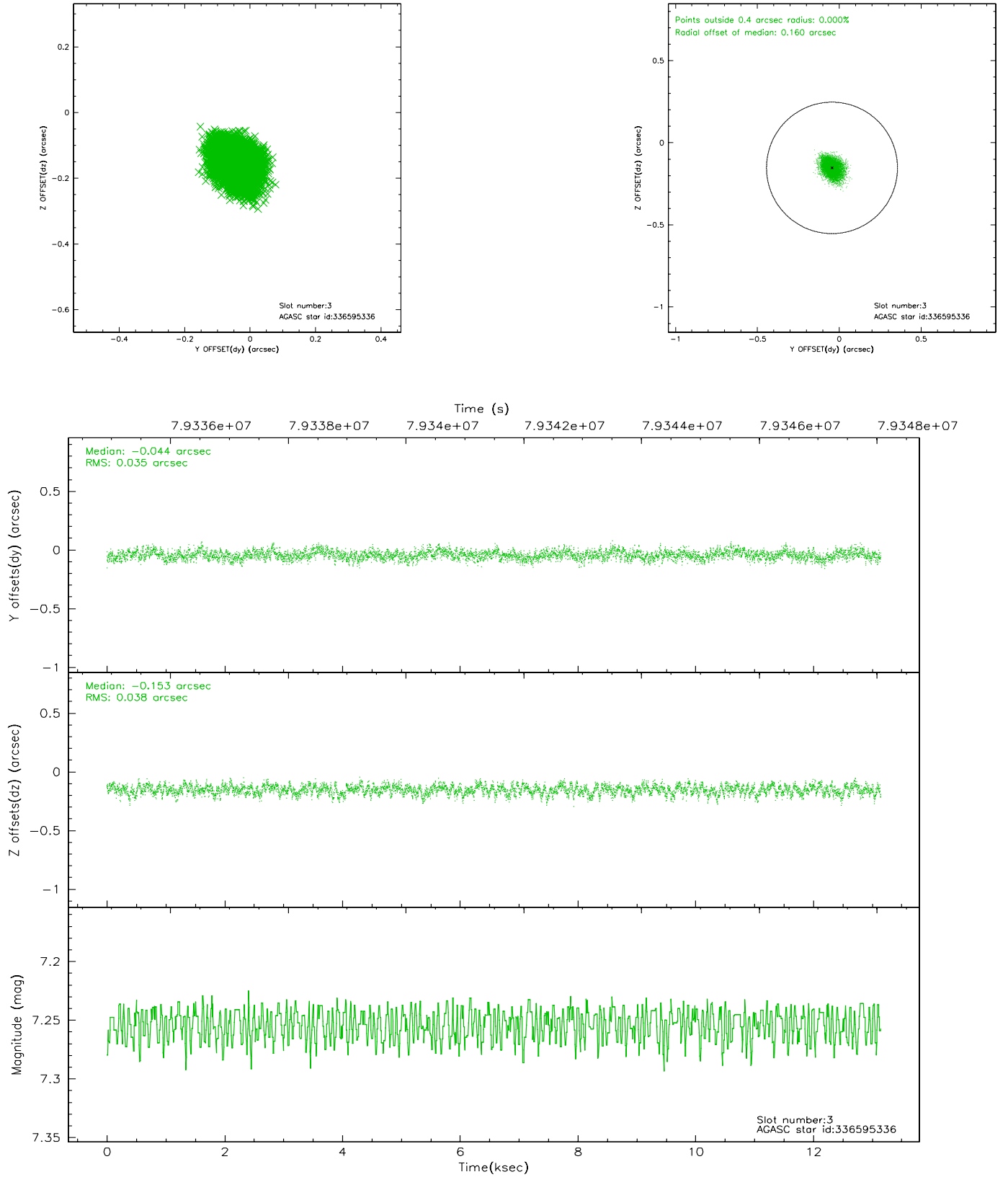


Slot Statistics

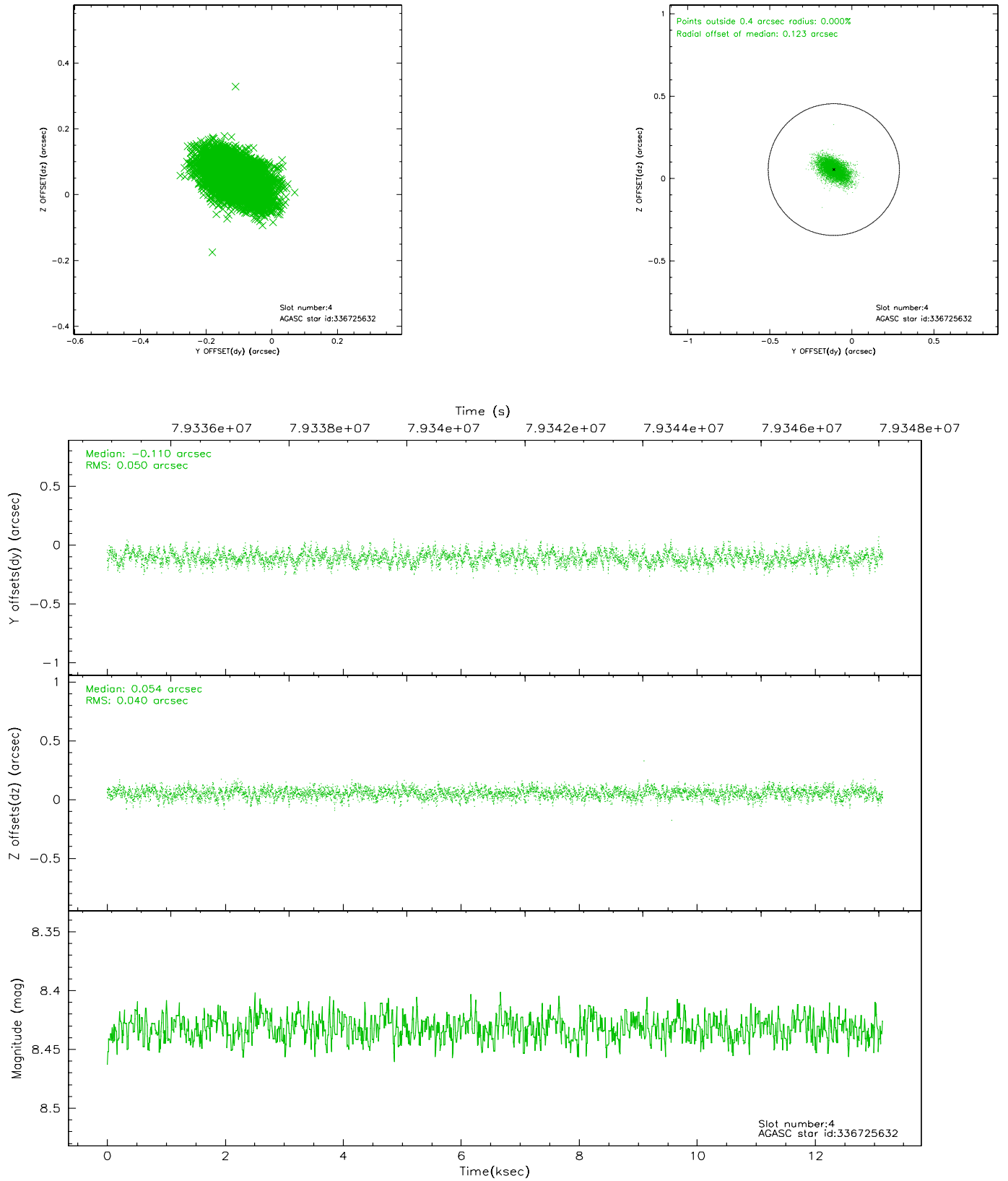
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	9125	-0.020	0.016	0.006	0.011	0.000000	0.000000	-754.19	-1725.82
1	FID	ACIS-S-4	7.21	9126	-0.043	0.005	0.005	0.009	0.000000	0.000000	2159.05	182.63
2	FID	ACIS-S-5	7.24	9125	0.032	-0.012	0.006	0.010	0.000000	0.000000	-1806.95	176.31
3	GUIDE	336595336	7.27	18251	0.012	-0.083	0.056	0.092	227.990011	36.754719	1342.76	-1214.59
4	GUIDE	336725120	8.06	18250	0.000	0.099	0.059	0.099	228.143592	35.971610	2247.50	1492.63
5	GUIDE	336725632	8.42	18187	-0.002	0.039	0.065	0.107	228.763557	36.830212	-763.92	-434.09
6	GUIDE	336727824	9.32	18239	0.086	0.014	0.077	0.128	228.394165	36.137468	1325.40	1297.00
7	GUIDE	336724656	9.50	18244	-0.096	-0.068	0.081	0.132	228.987544	37.238496	-2004.43	-1452.22

3.4 Star Slots

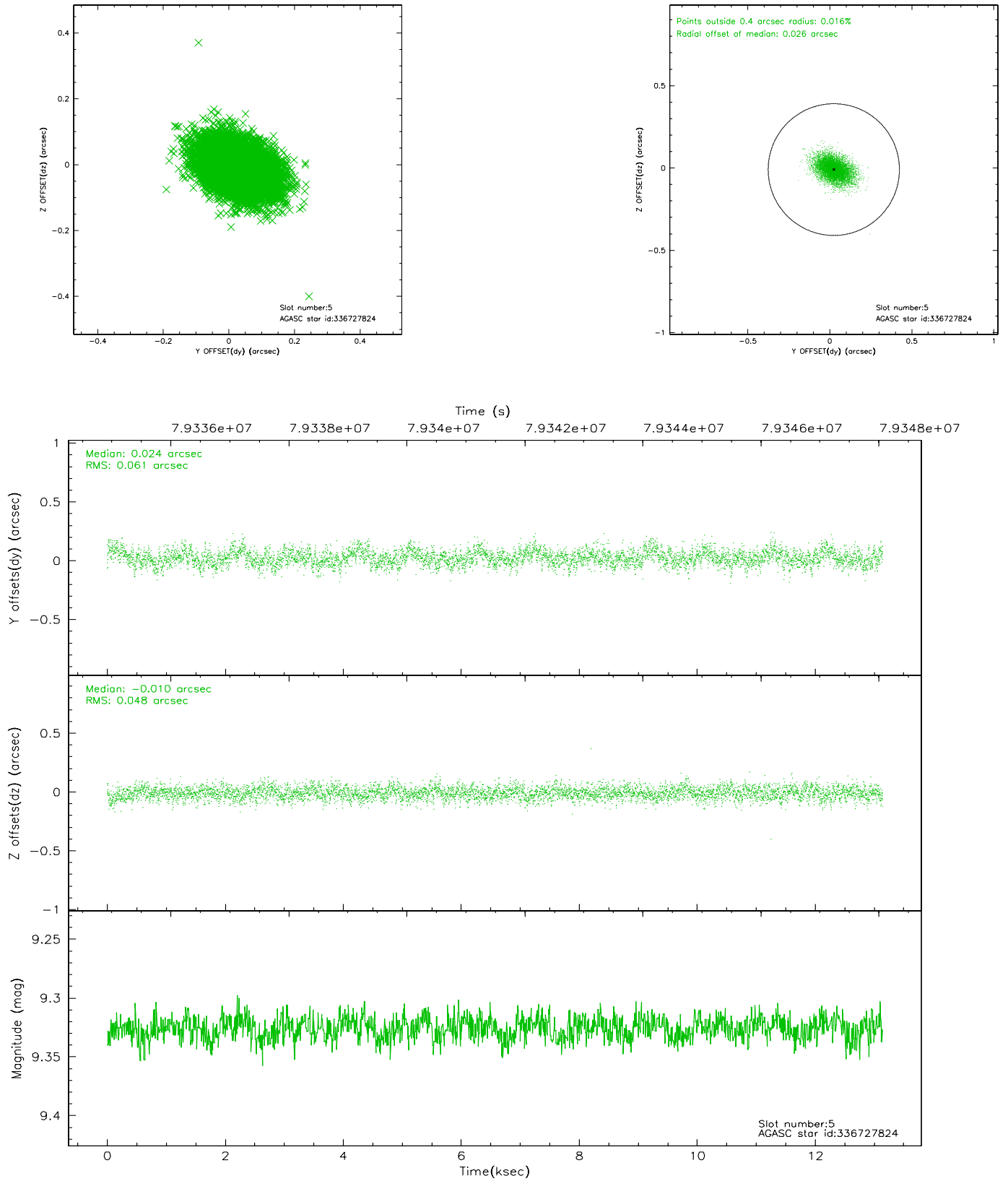
3.4.1 Slot 3



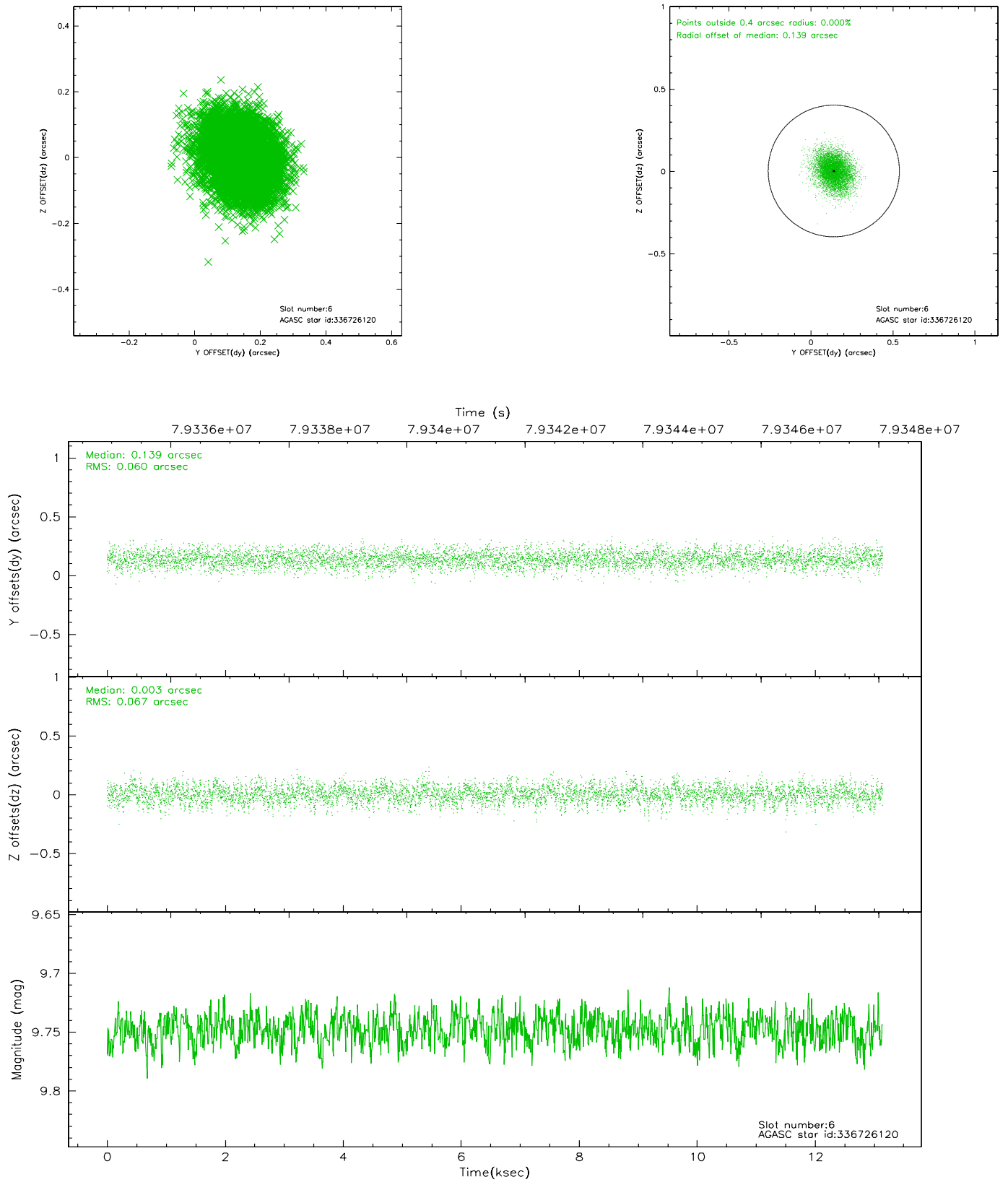
3.4.2 Slot 4



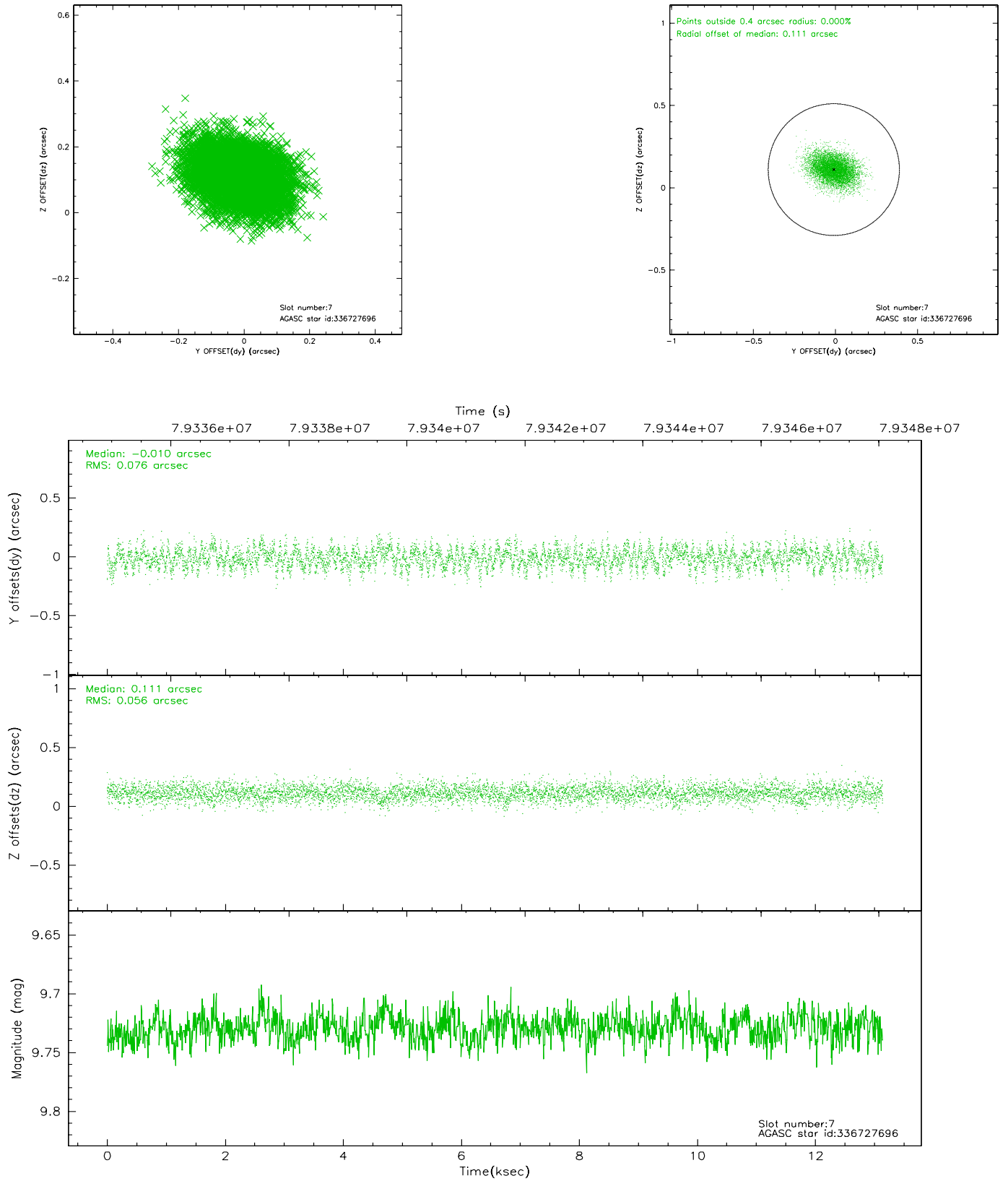
3.4.3 Slot 5



3.4.4 Slot 6

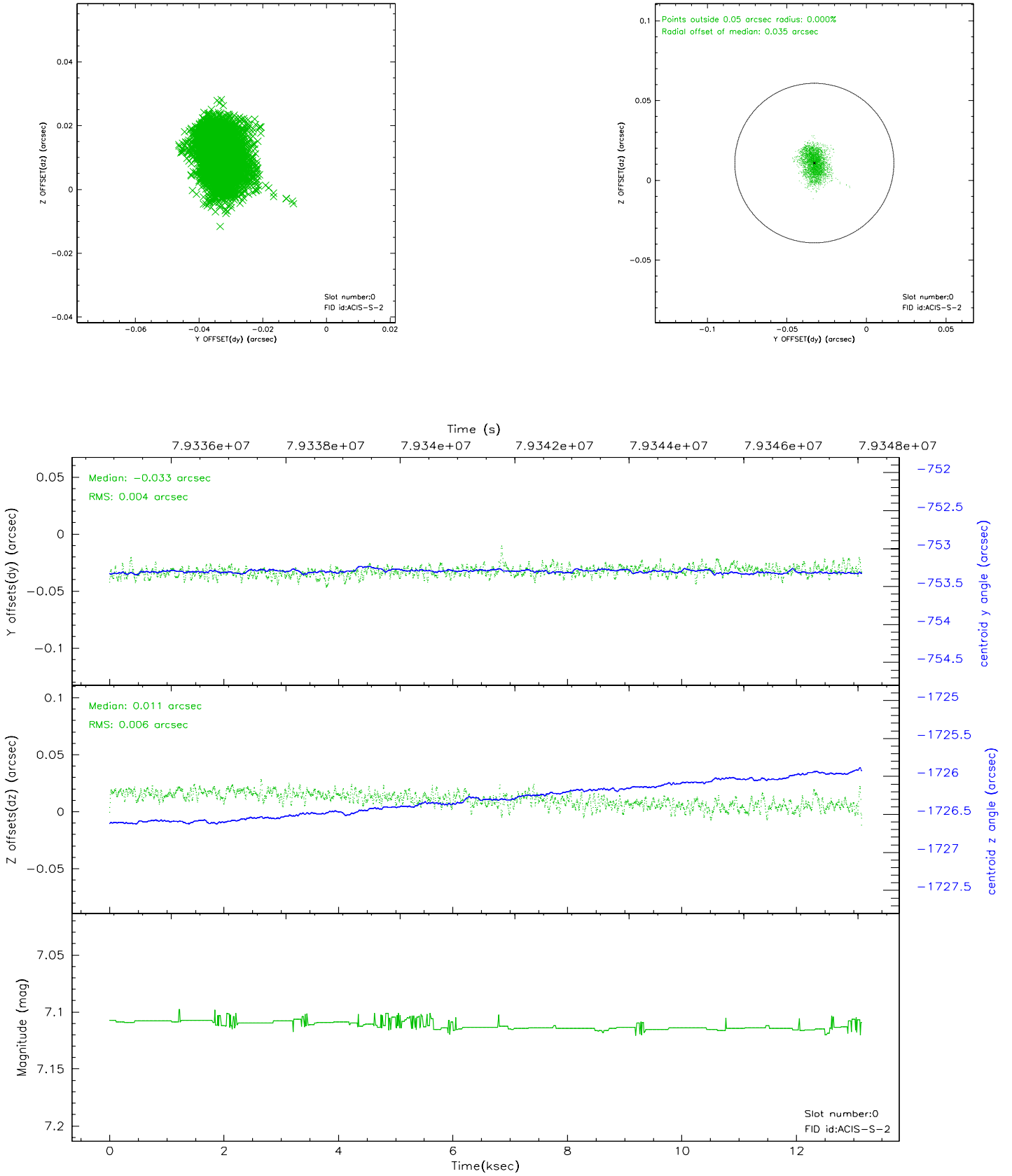


3.4.5 Slot 7

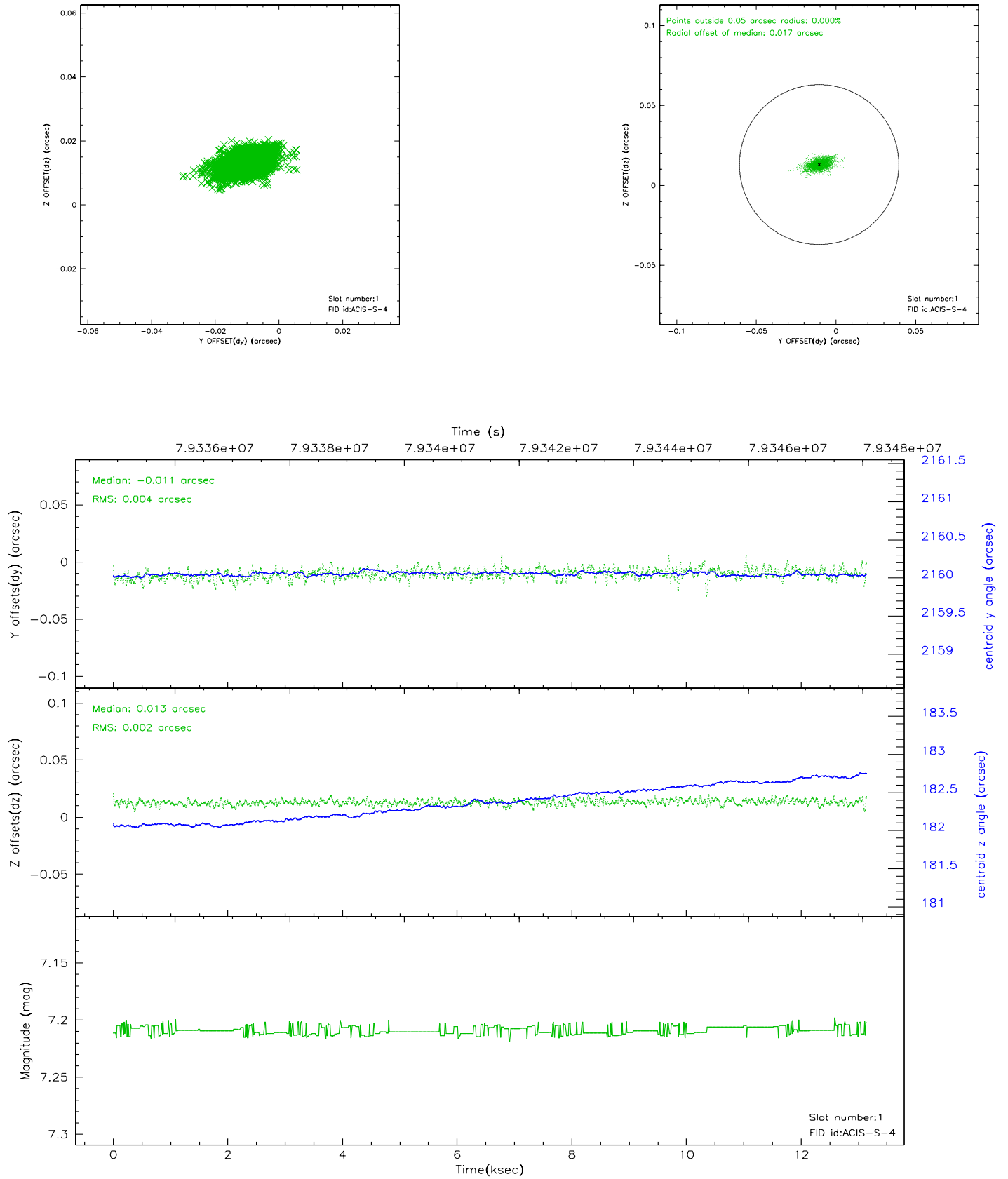


3.5 FID Slots

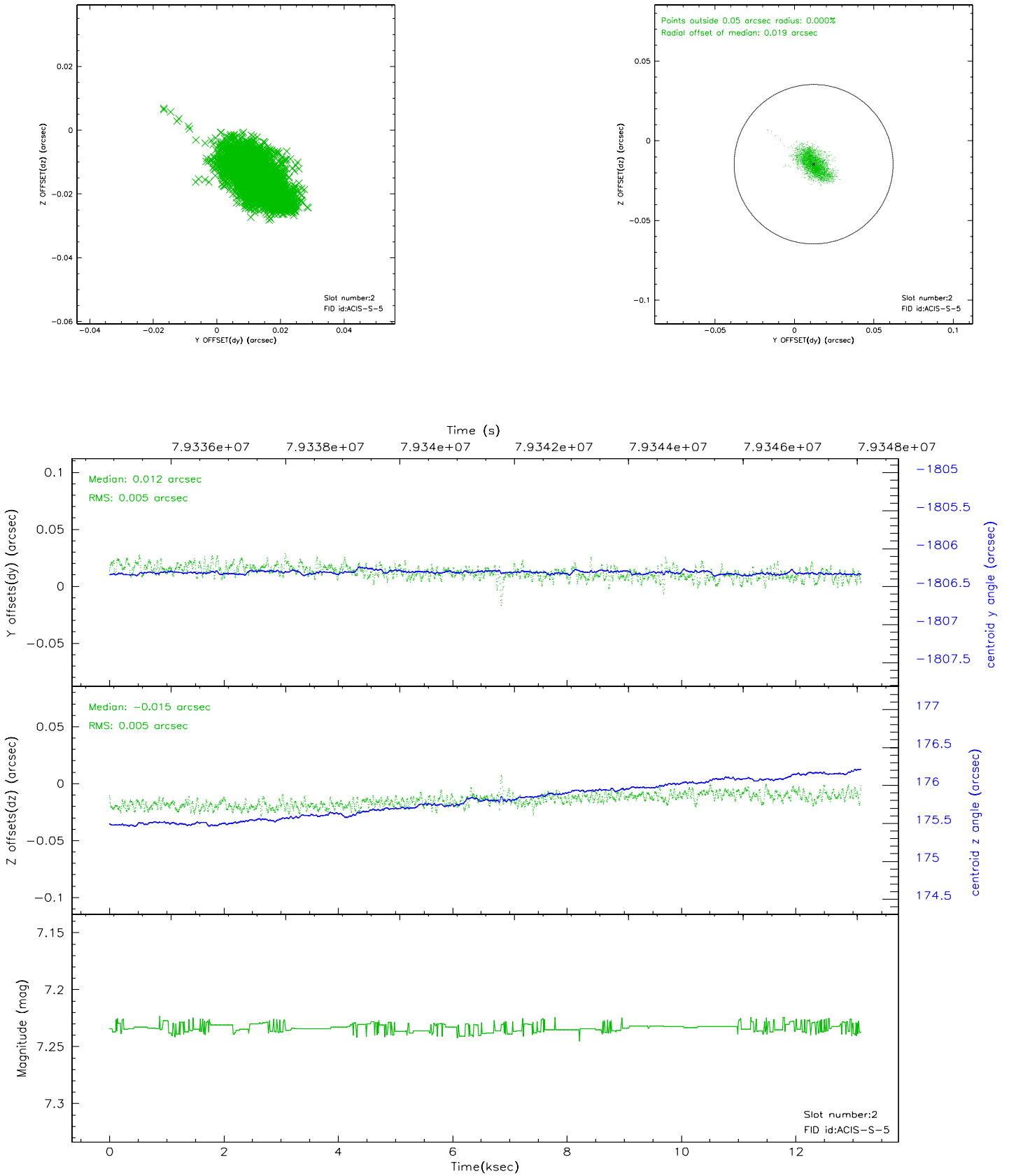
3.5.1 Slot 0



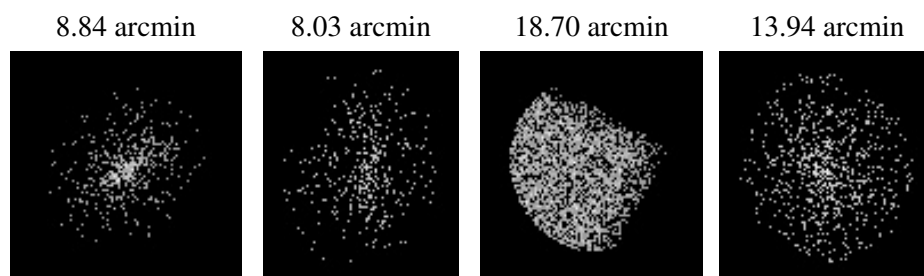
3.5.2 Slot 1



3.5.3 Slot 2



4 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.11.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	49.616

A.2 Comments