

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1970 - L2 Version 001
Chandra X-Ray Center

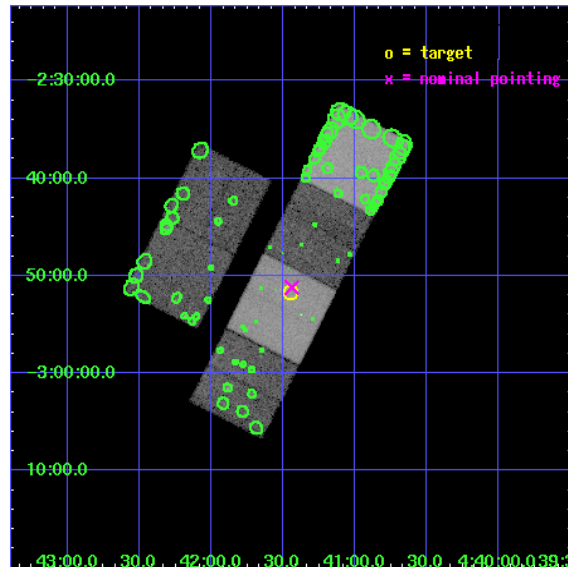
L2 Processing Date : Dec 15 2006

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1 Front

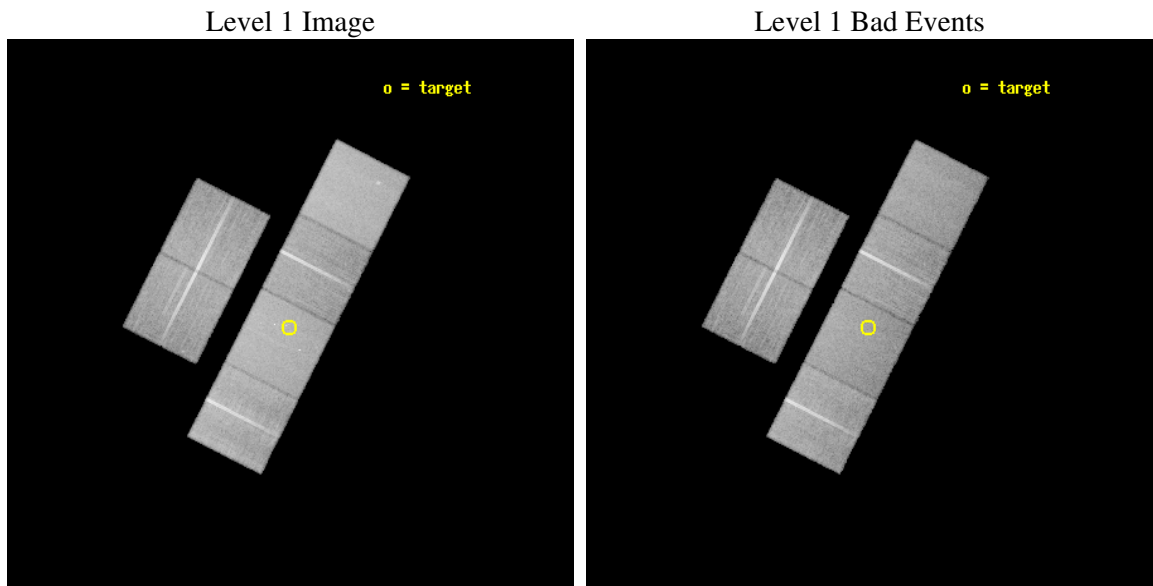
seq_num	500147
obs_id	1970
title	CONTINUING CHANDRA OBSERVATIONS OF THE X-RAY SUPERNOVAE SN 1999EM AND SN 1998S
observer	Prof. Walter Lewin
object	SN 1999EM
dtcycle	0
cycle	P
ra_targ	70.362917
dec_targ	-2.862694
ra_nom	70.36010130953
dec_nom	-2.8533434392402
roll_nom	116.93927784793
revision	2
ontime	30166.400028095
livetime	29784.414906914
ontime2	30163.159067839
ontime3	30166.400028095
ontime5	30166.400028095
ontime6	30166.400028095
ontime7	30166.400028095
ontime8	30166.400028095
l2events	305021



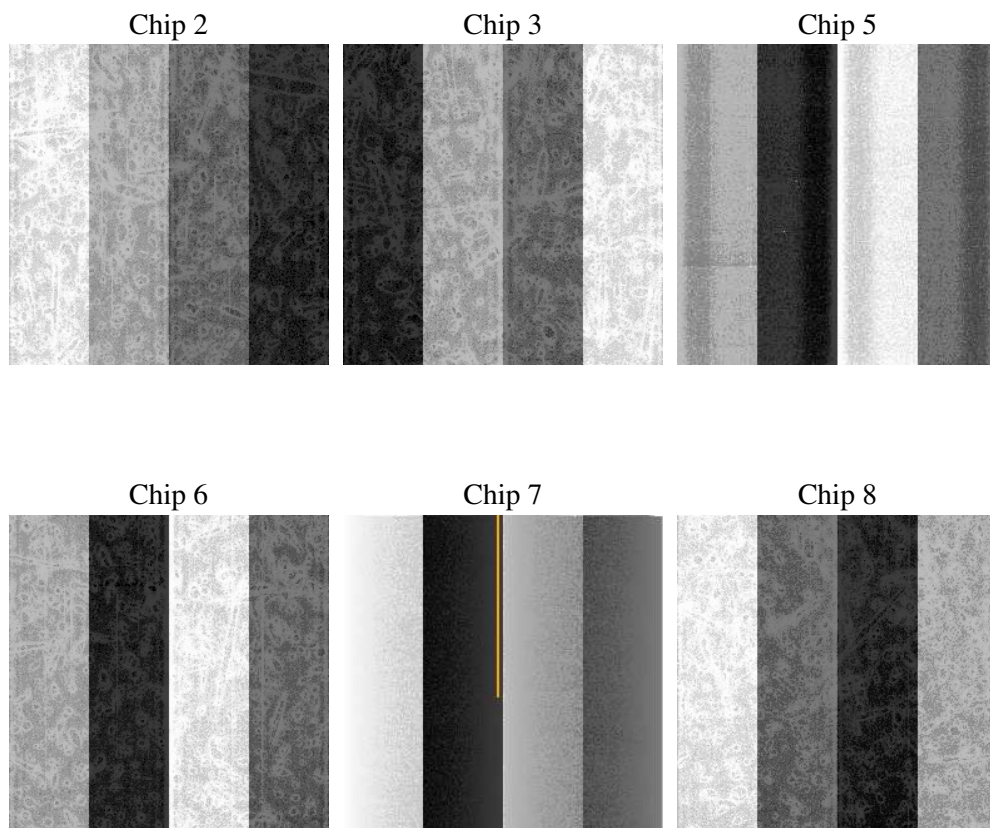
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.4
date	2006-12-15T16:33:49
revision	2

sched_exp_time	30000.000000
ontime	30290.360967577
ontime2	30287.120007321
ontime3	30290.360967577
ontime5	30290.360967577
ontime6	30290.360967577
ontime7	30290.360967577
ontime8	30290.360967577
l1events	1425786

2.1.4 Events

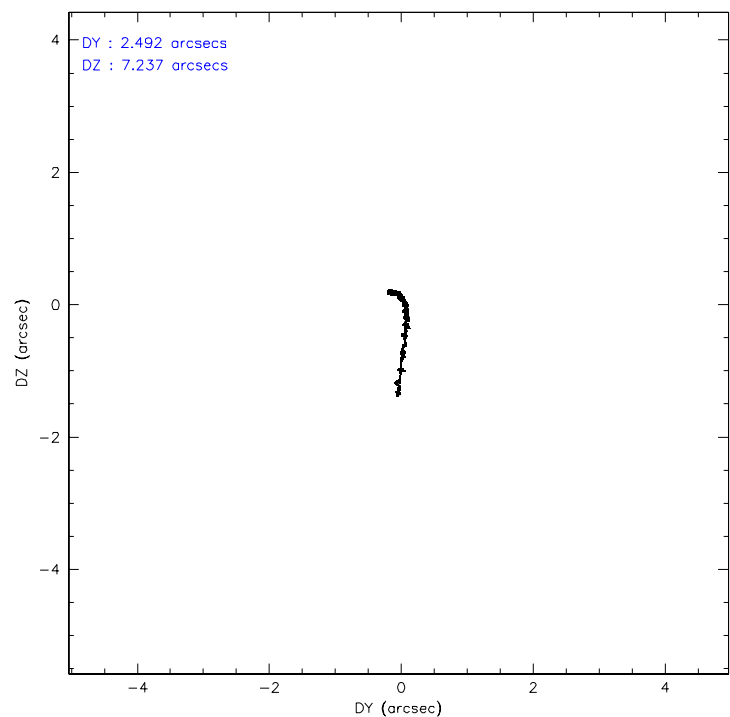
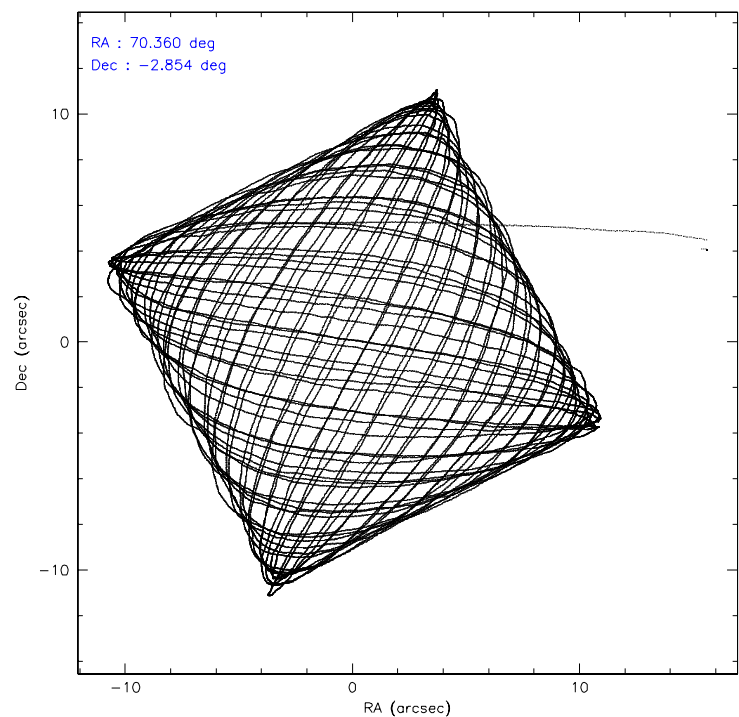
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	211749	201610	285728	207147	263820	255732
rejected events	189063	178169	161618	183553	161247	204935
rejected %	89%	88%	56%	88%	61%	80%

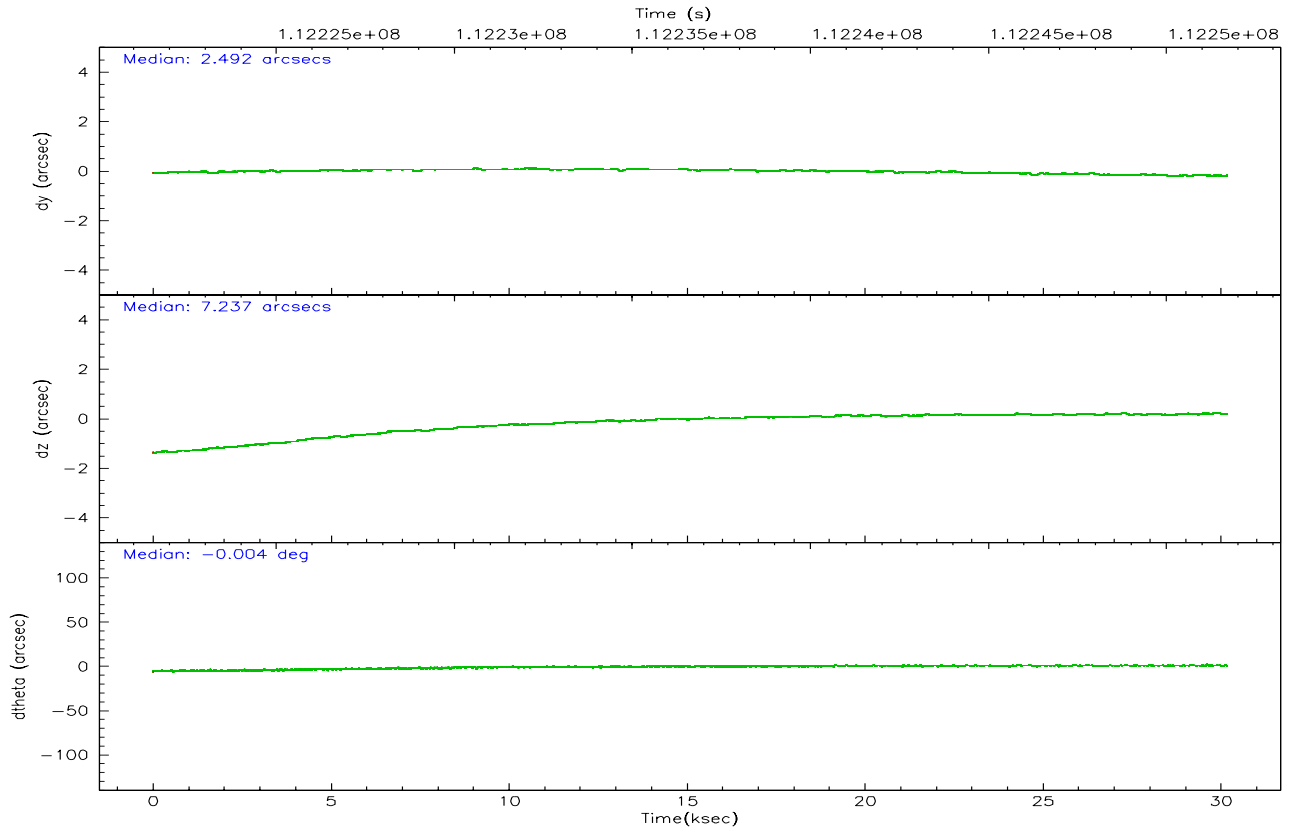
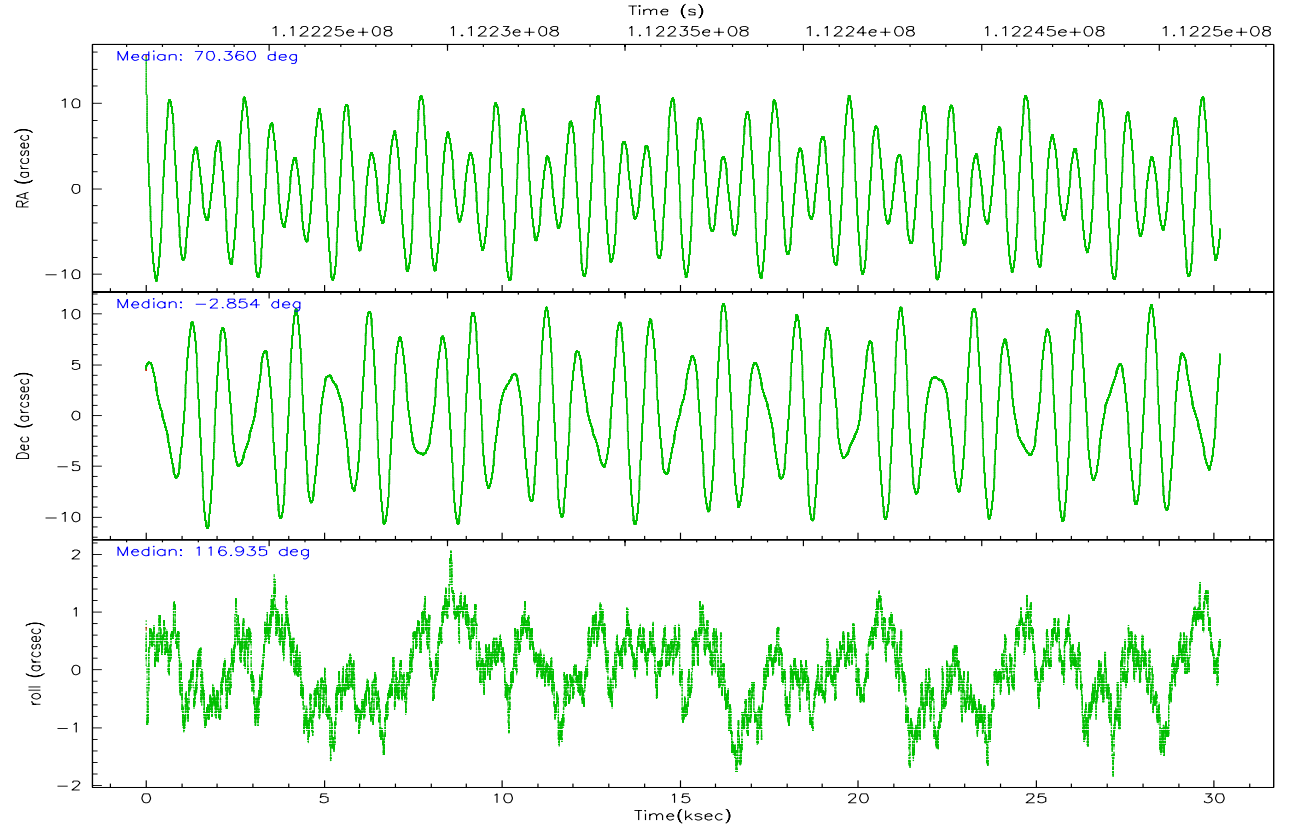
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	9686	10265	6370	9877	6900	16277
	4%	5%	2%	4%	2%	6%
grade 1 events	101	103	252	88	174	144
	0%	0%	0%	0%	0%	0%
grade 2 events	4869	4620	39280	4637	25021	11134
	2%	2%	13%	2%	9%	4%
grade 3 events	2163	2221	3068	2367	5576	5475
	1%	1%	1%	1%	2%	2%
grade 4 events	2121	2262	3014	2282	5336	4992
	1%	1%	1%	1%	2%	1%
grade 5 events	6873	7870	14171	8708	17498	10795
	3%	3%	4%	4%	6%	4%
grade 6 events	3927	4170	72934	4530	60231	13242
	1%	2%	25%	2%	22%	5%
grade 7 events	182009	170099	146639	174658	143084	193673
	85%	84%	51%	84%	54%	75%

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	70.383165	70.36010130953012	Subarray requested	NONE	NONE
Pointing Dec	-2.867986	-2.853343439240212	Alternating exposures requested	N	N
Pointing Roll	116.783803	116.9392778479277	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	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	112221704.184000	112220573.0055			
Observation start date	2001-07-22T20:40:40	2001-07-22T20:22:53			
Observation end time	112251704.184000	112252211.16924			
Observation end date	2001-07-23T05:00:40	2001-07-23T05:10:11			
Read mode	TIMED	TIMED			

2.3 Aspect



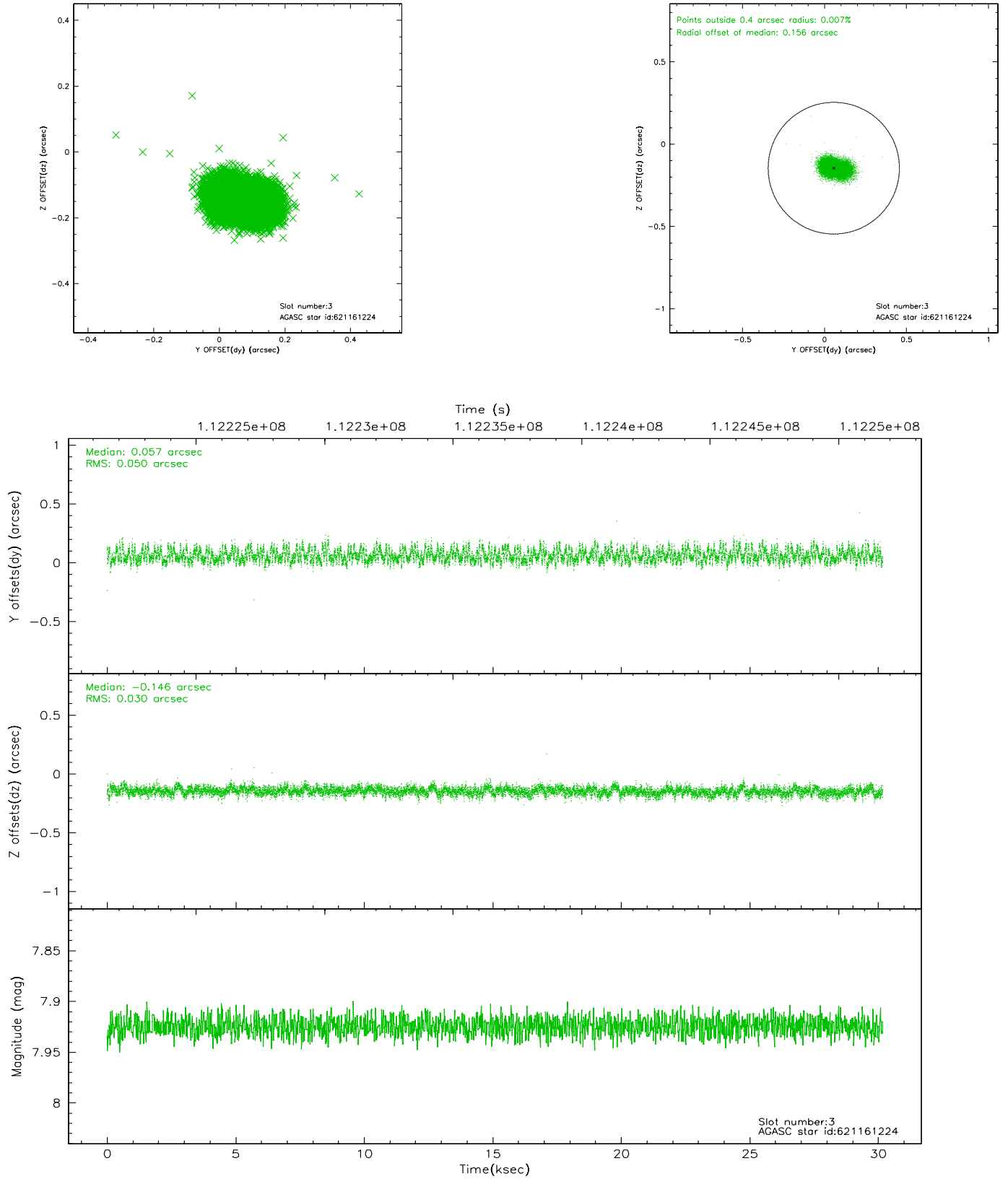


Slot Statistics

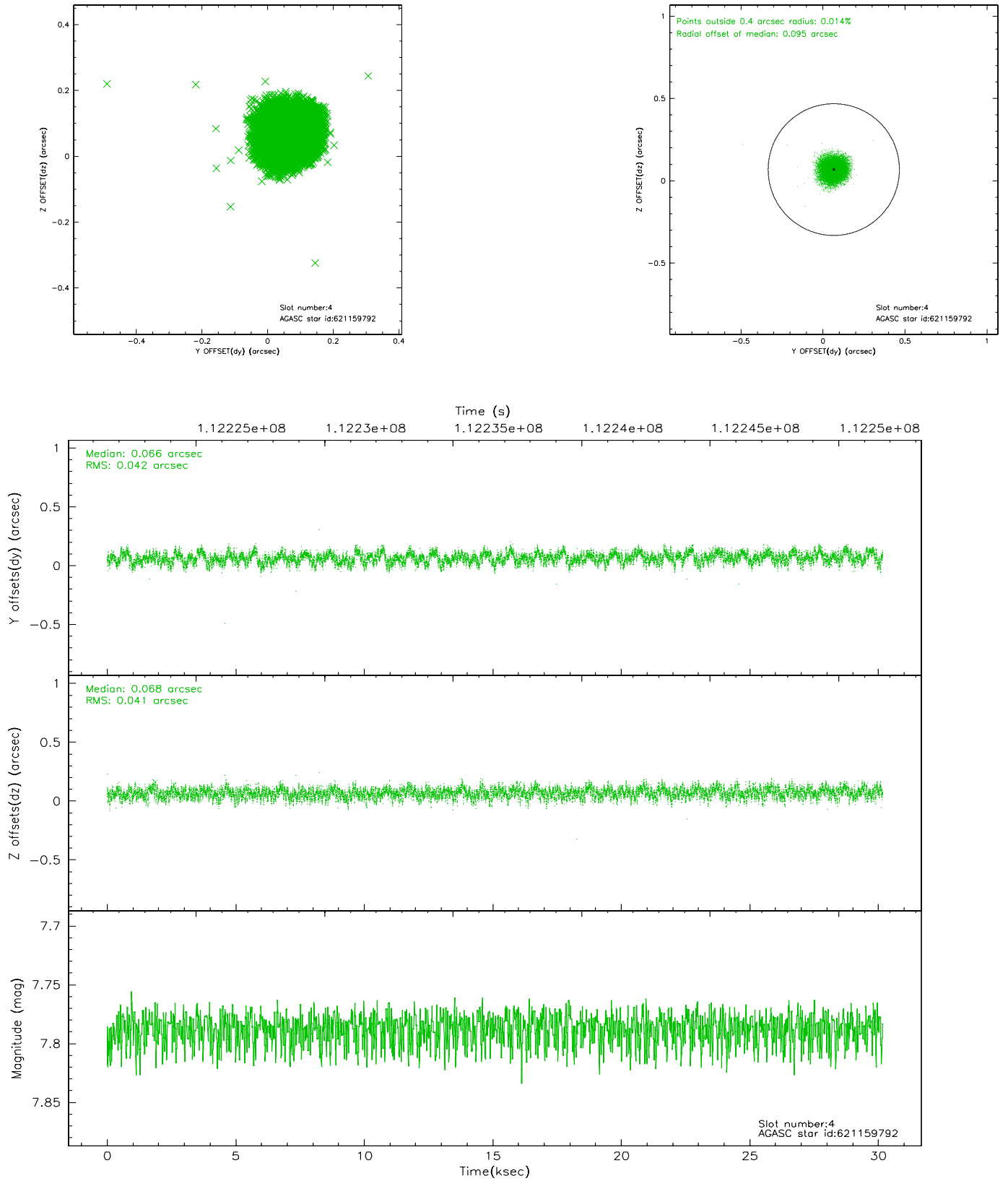
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	7359	-0.001	0.021	0.011	0.023	0.000000	0.000000	-755.10	-1728.18
1	FID	ACIS-S-4	7.19	7358	-0.091	-0.004	0.010	0.020	0.000000	0.000000	2158.04	180.22
2	FID	ACIS-S-5	7.24	7358	0.062	-0.007	0.009	0.016	0.000000	0.000000	-1807.80	173.95
3	GUIDE	621161224	7.92	14716	0.057	-0.146	0.061	0.101	70.234546	-3.517454	-1845.89	1530.48
4	GUIDE	621159792	7.79	14717	0.066	0.068	0.063	0.099	71.027177	-3.166580	-2002.52	-1581.52
5	GUIDE	621154624	8.98	14714	-0.161	0.116	0.065	0.105	70.402746	-2.451192	1308.34	-738.55
6	GUIDE	621154496	8.62	14716	-0.042	0.098	0.060	0.098	70.732100	-2.663664	91.97	-1451.17
7	GUIDE	621151192	9.91	14706	0.076	-0.136	0.125	0.194	70.235475	-2.692308	804.73	189.34

2.4 Star Slots

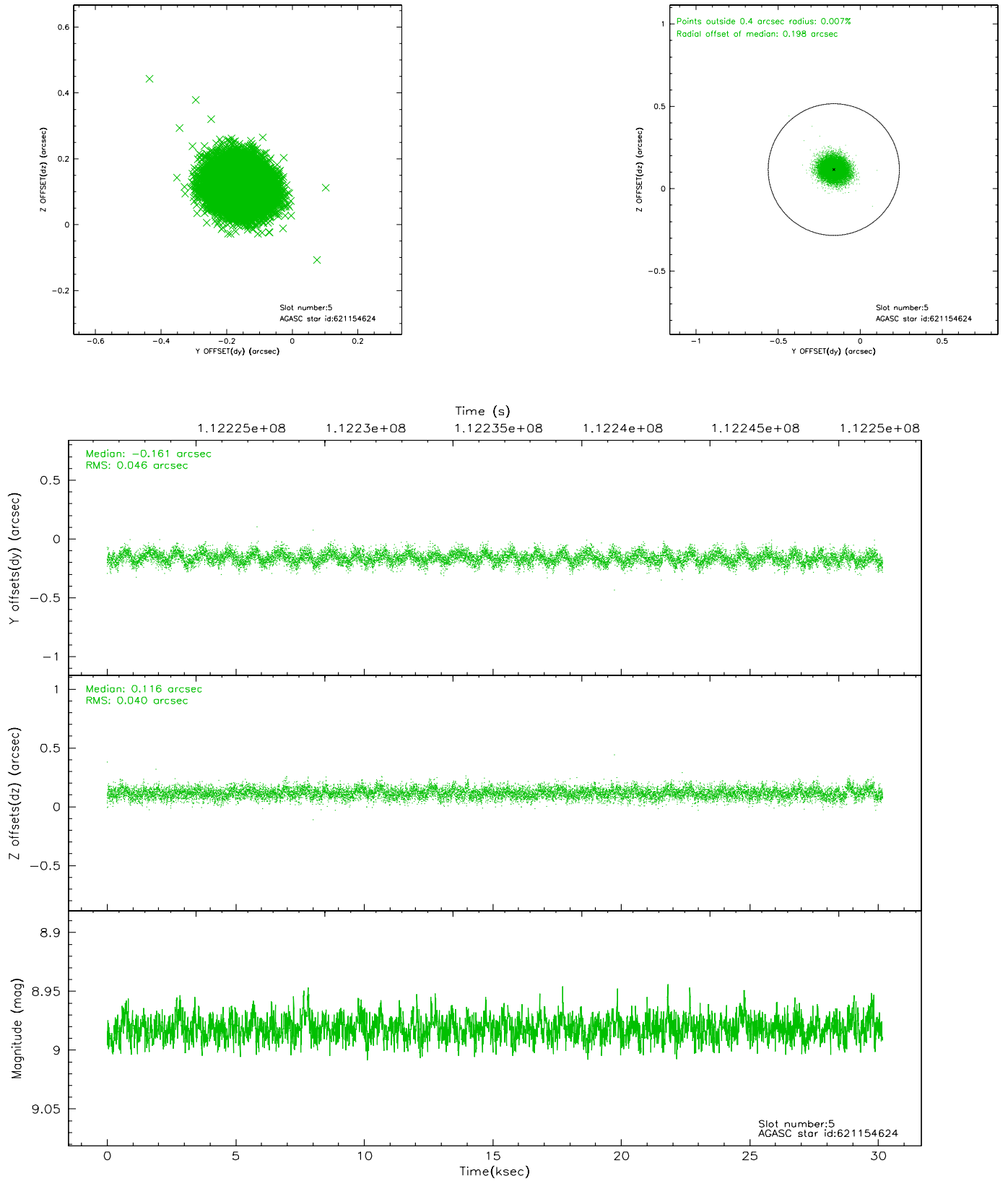
2.4.1 Slot 3



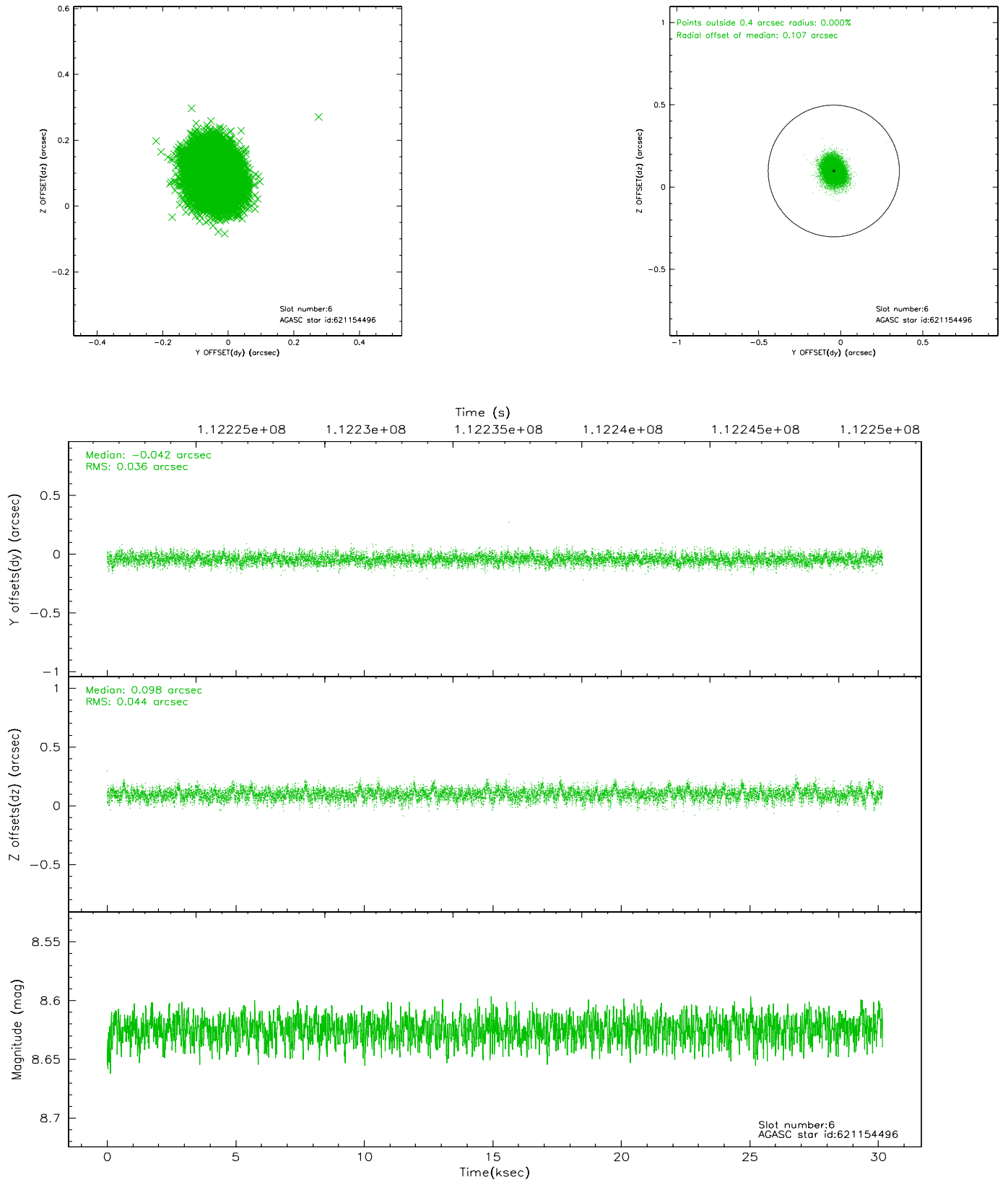
2.4.2 Slot 4



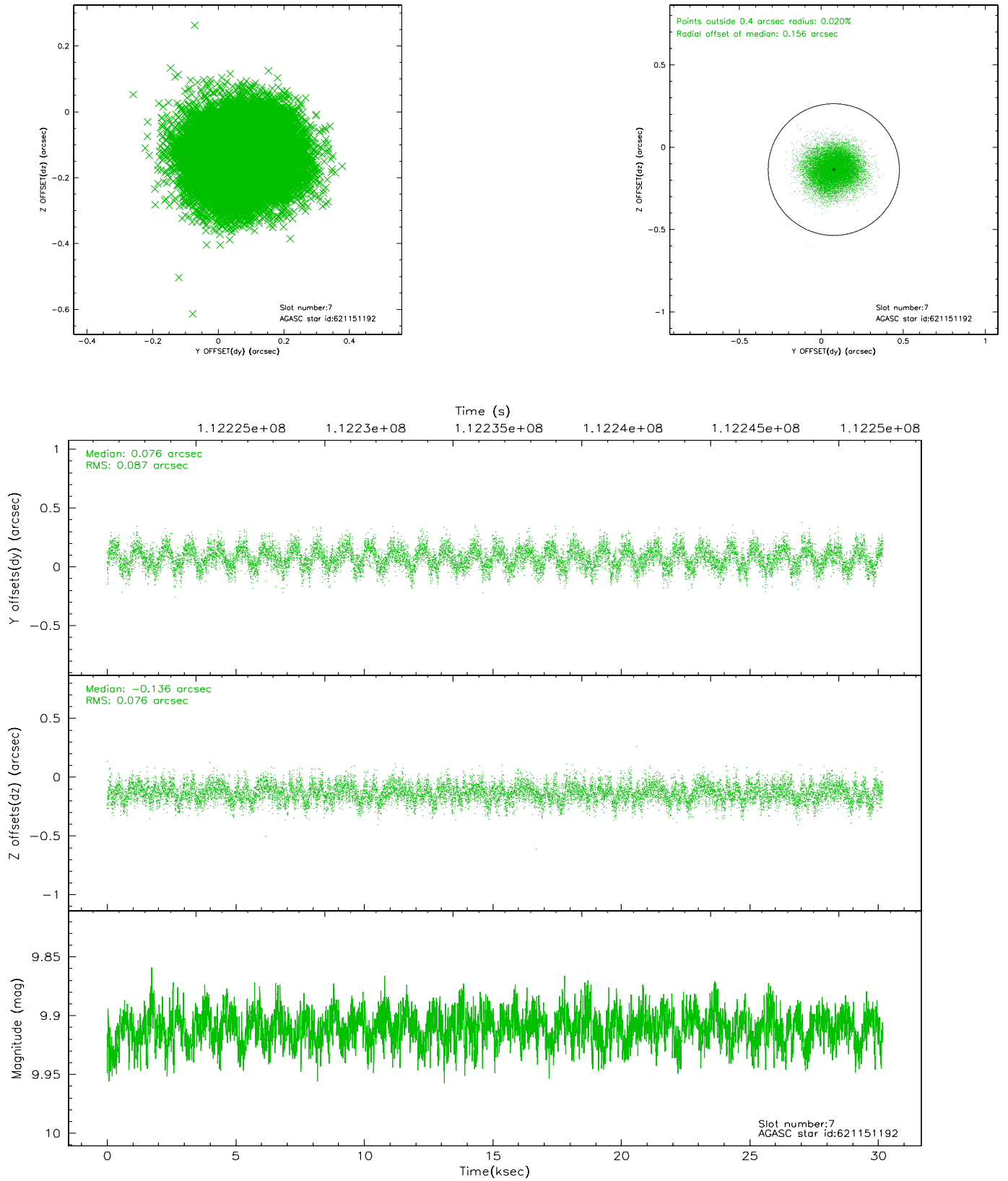
2.4.3 Slot 5



2.4.4 Slot 6

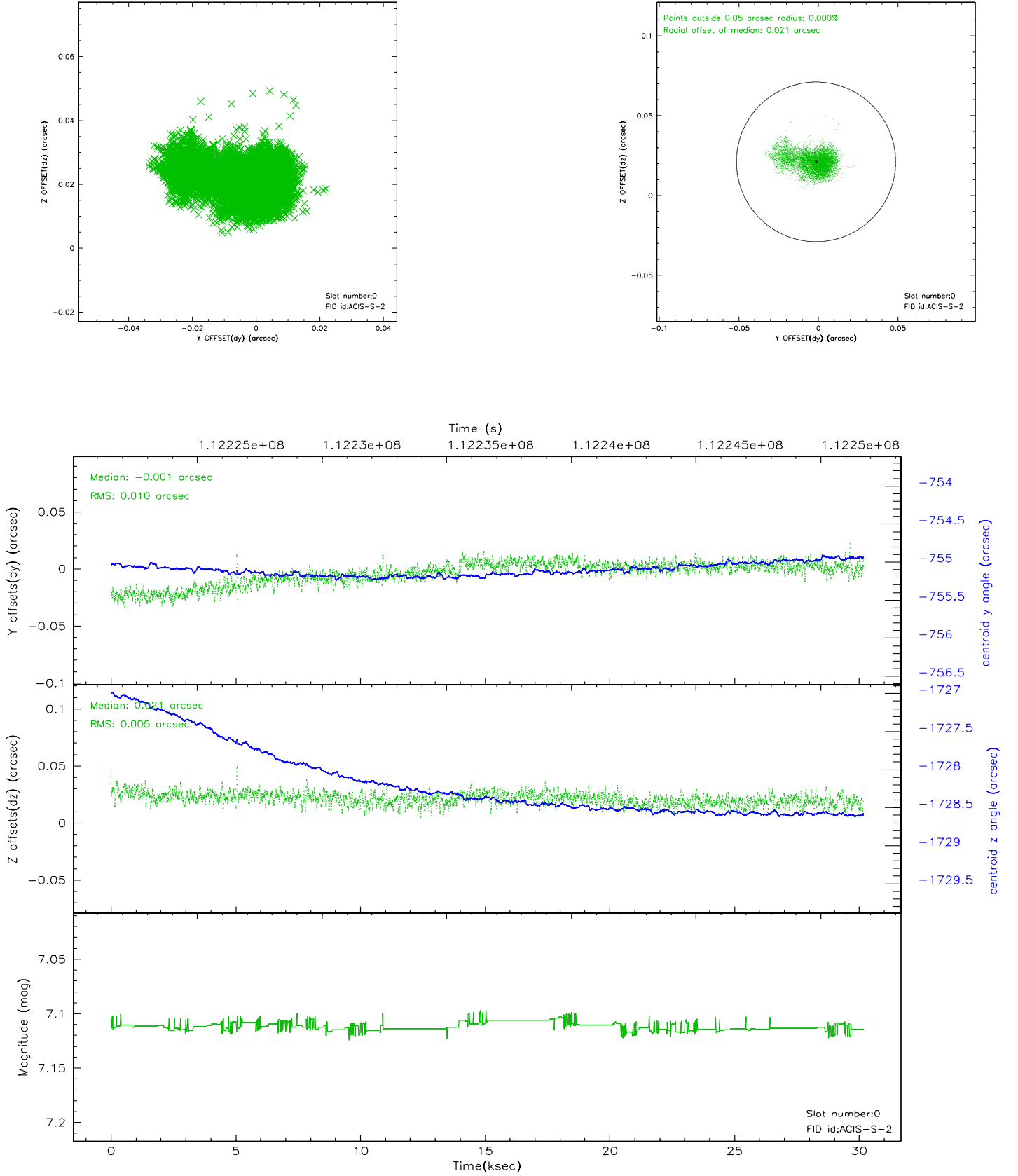


2.4.5 Slot 7

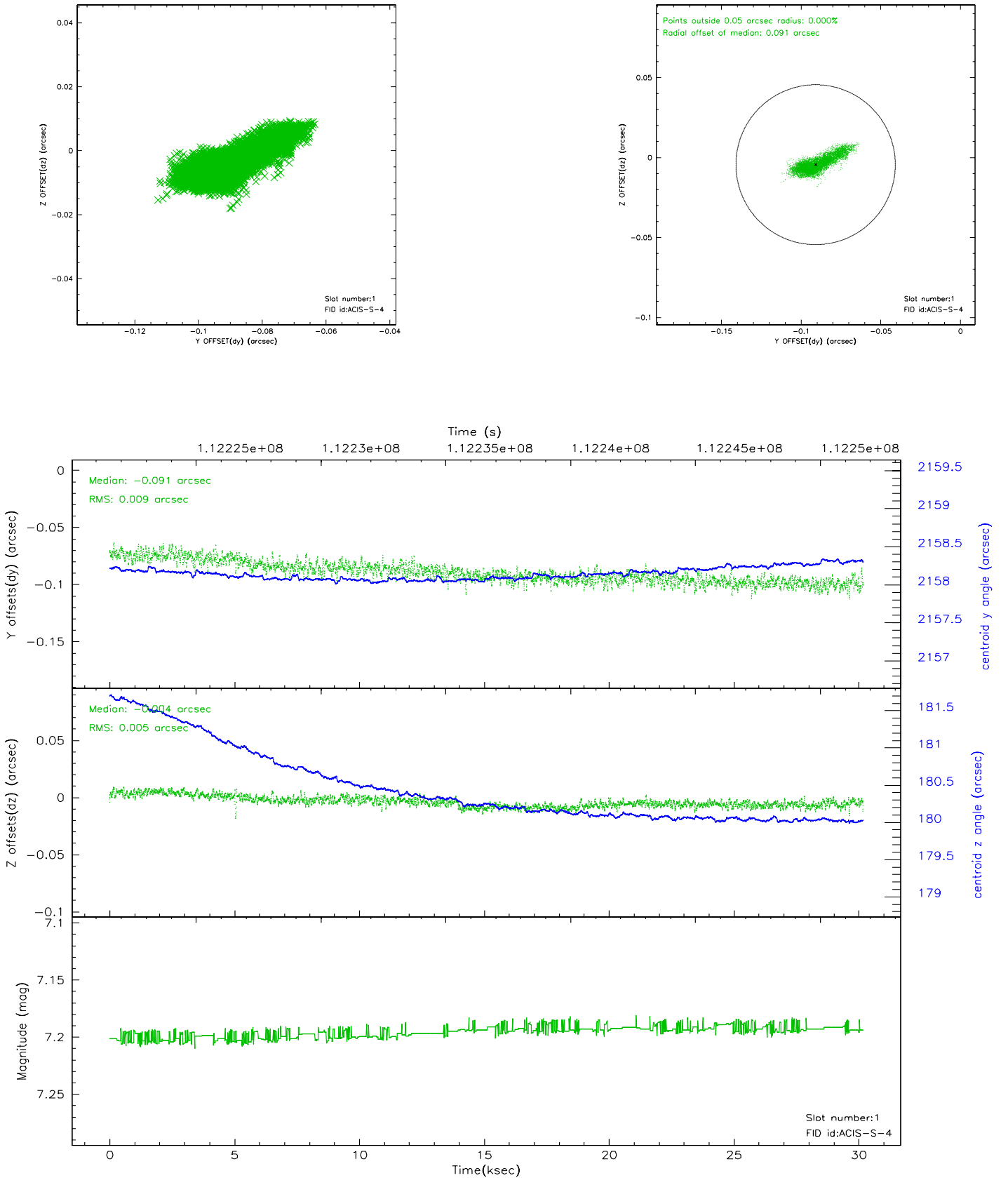


2.5 FID Slots

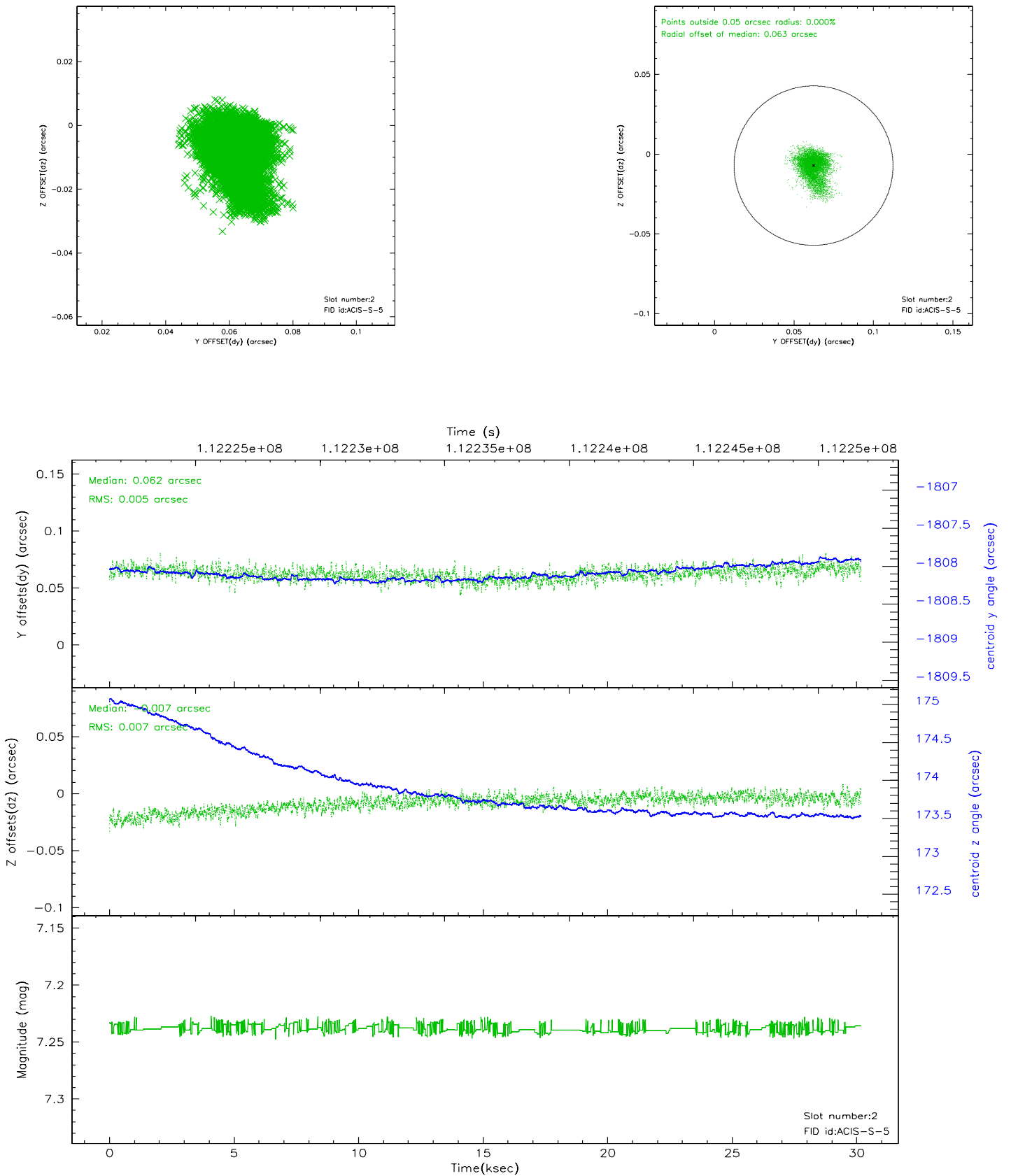
2.5.1 Slot 0



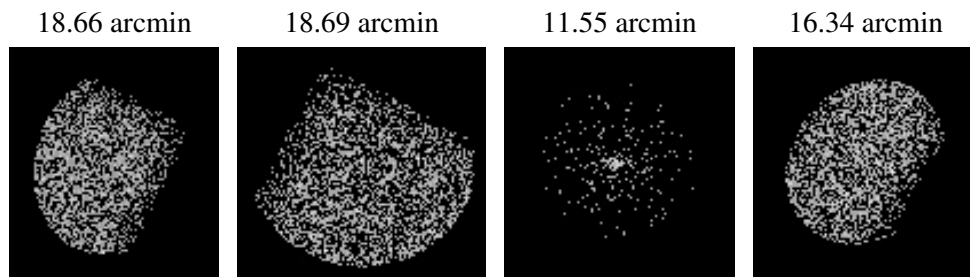
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.12.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.166

A.2 Comments

Monitor constraint is violated. Requested monitor window is 180 to 190 days after Obsid 1969. Obsid 1970 is actually observed 138 days after 1969.

CDO response: The time constraint was indeed violated for this observation. However, the target in the second observation was not as bright as the observers predicted, so they are quite happy with the 3rd observation a little early. There is no need to reschedule this.