

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 11278 - L2 Version 2
Chandra X-Ray Center

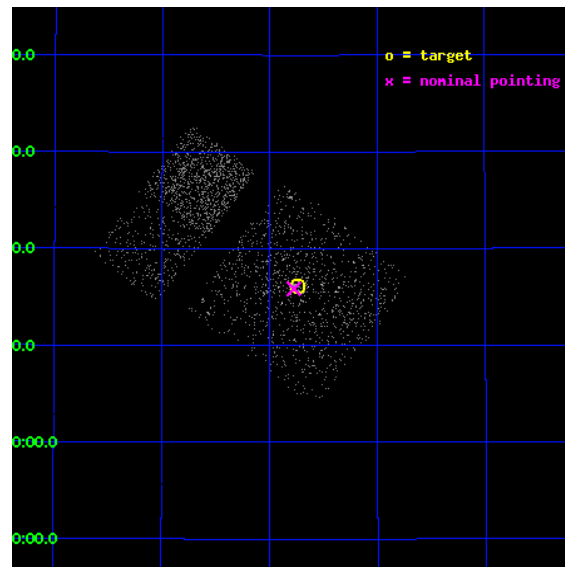
L2 Processing Date : Jun 20 2012

Contents

1	Front	2
2	OBI Primary	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
3	OBI Secondary	17
3.1	OBI	17
3.1.1	Images	17
3.1.2	Bias	17
3.1.3	Parameters	18
3.1.4	Events	18
A	Summary	19
A.1	Status	19
A.2	Comments	19

1 Front

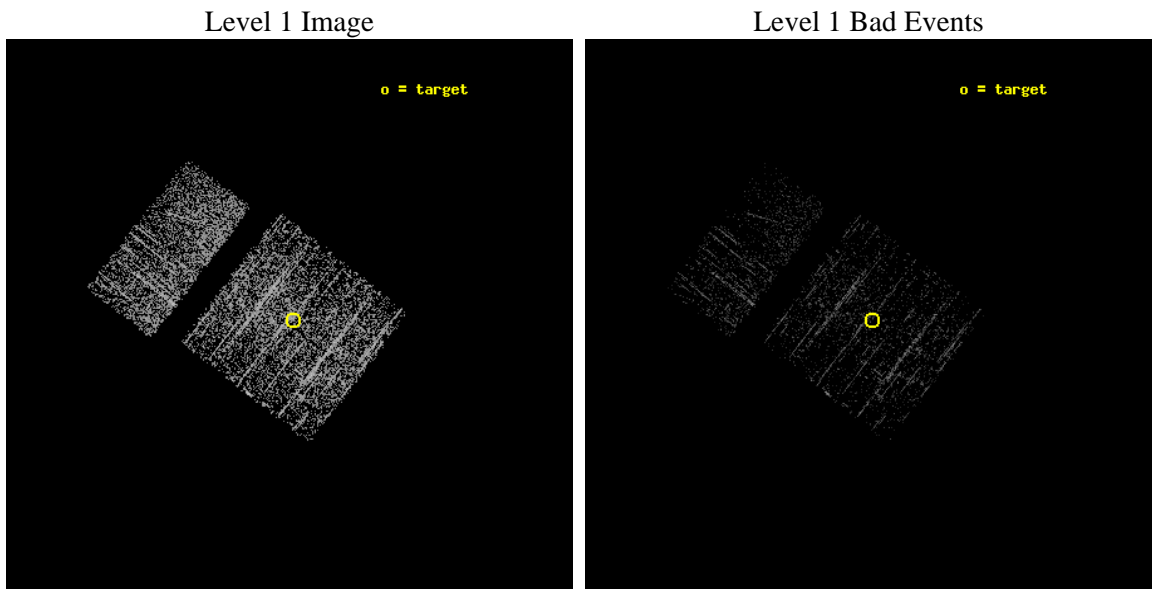
seq_num	600797	Sequence number
obs_id	11278	Observation id
title	Monitoring M31 for BHXNe	Proposal title
observer	Dr. Michael Garcia	Principal investigator
object	M31	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar
ra_targ	10.685	Observer's specified target RA [deg]
dec_targ	41.268972	Observer's specified target Dec [deg]
ra_nom	10.693777099511	Nominal RA [deg]
dec_nom	41.264312137853	Nominal Dec [deg]
roll_nom	307.86464363793	Nominal Roll [deg]
revision	2	Processing version of data
ontime	937.77651697397	Sum of GTIs [s]
livetime	147.62864441679	Livetime [s]
ontime0	937.77651697397	Sum of GTIs [s]
ontime1	937.77653682232	Sum of GTIs [s]
ontime2	937.77651697397	Sum of GTIs [s]
ontime3	937.77651697397	Sum of GTIs [s]
ontime6	937.77655667067	Sum of GTIs [s]
ontime7	937.77653682232	Sum of GTIs [s]
l2events	2916	Number of level 2 events



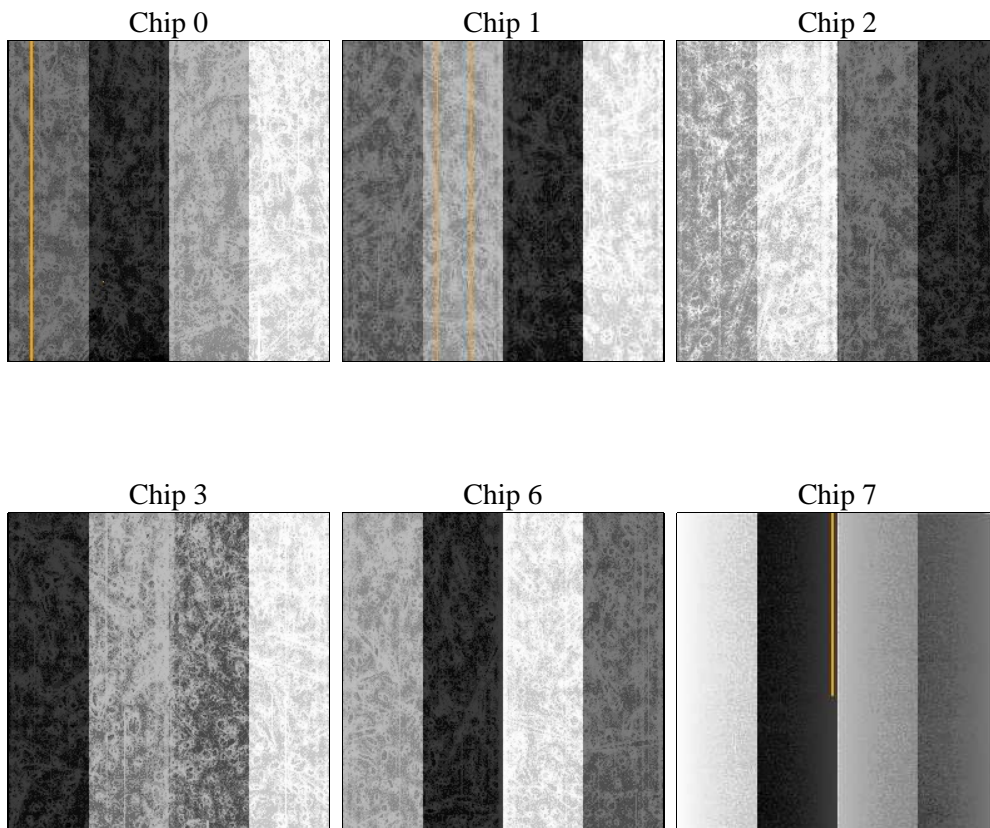
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	937.77651697397	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	937.77651697397	Sum of GTIs [s]
date	2012-06-20T23:56:45	Date and time of file creation	ontime1	937.77653682232	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	937.77651697397	Sum of GTIs [s]
			ontime3	937.77651697397	Sum of GTIs [s]
			ontime6	937.77655667067	Sum of GTIs [s]
			ontime7	937.77653682232	Sum of GTIs [s]
			l1events	23729	Number of level 1 events

2.1.4 Events

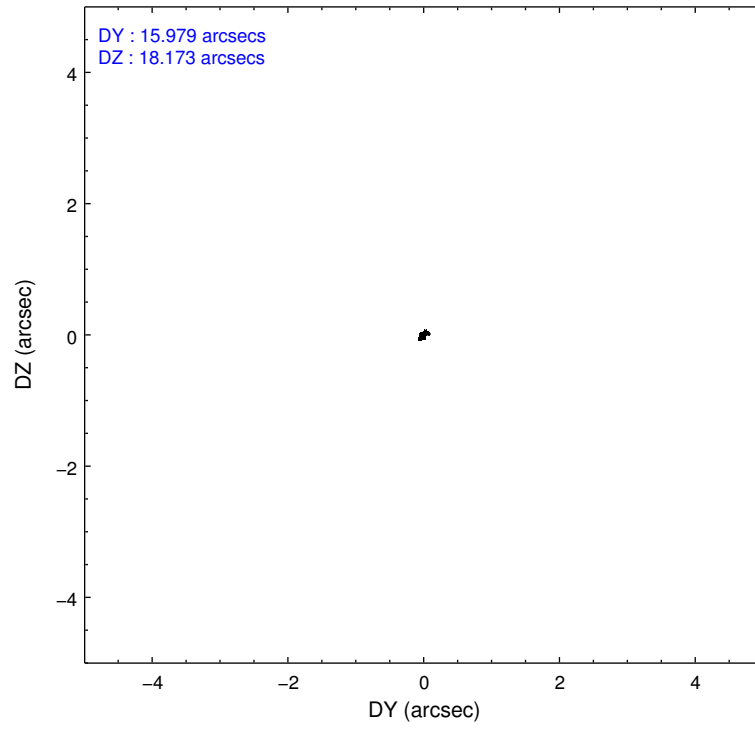
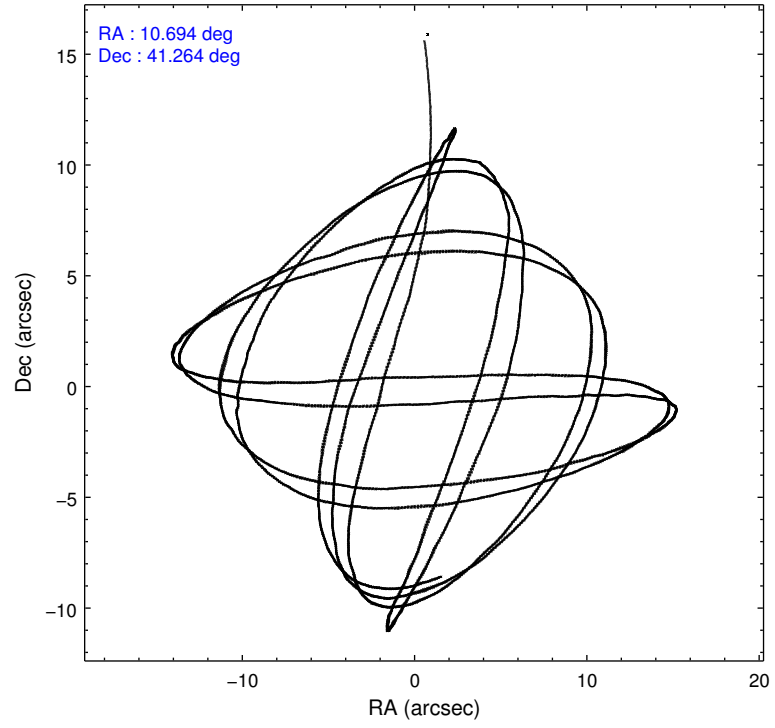
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	3864	4036	4105	3839	4380	3505
rejected events	3486	3443	3584	3373	4044	2455
rejected %	90%	85%	87%	87%	92%	70%

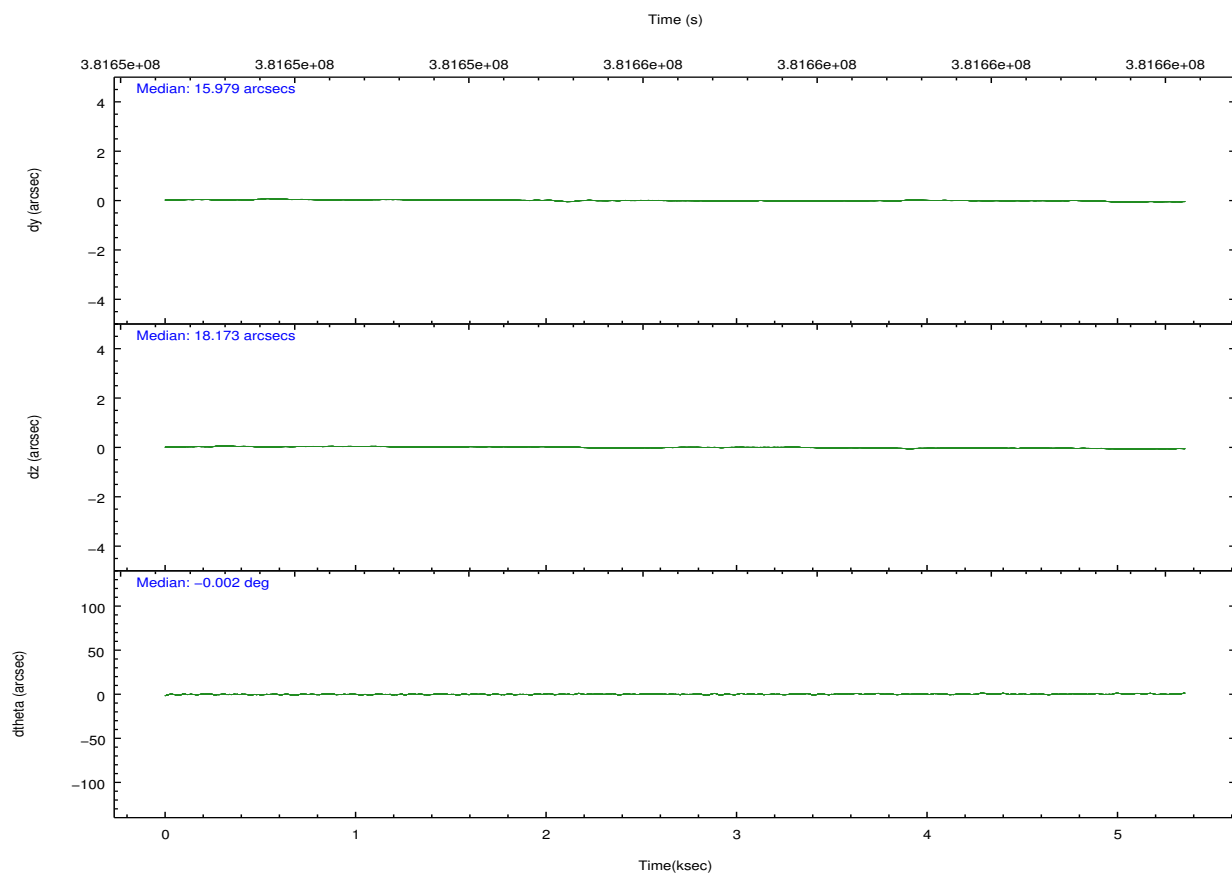
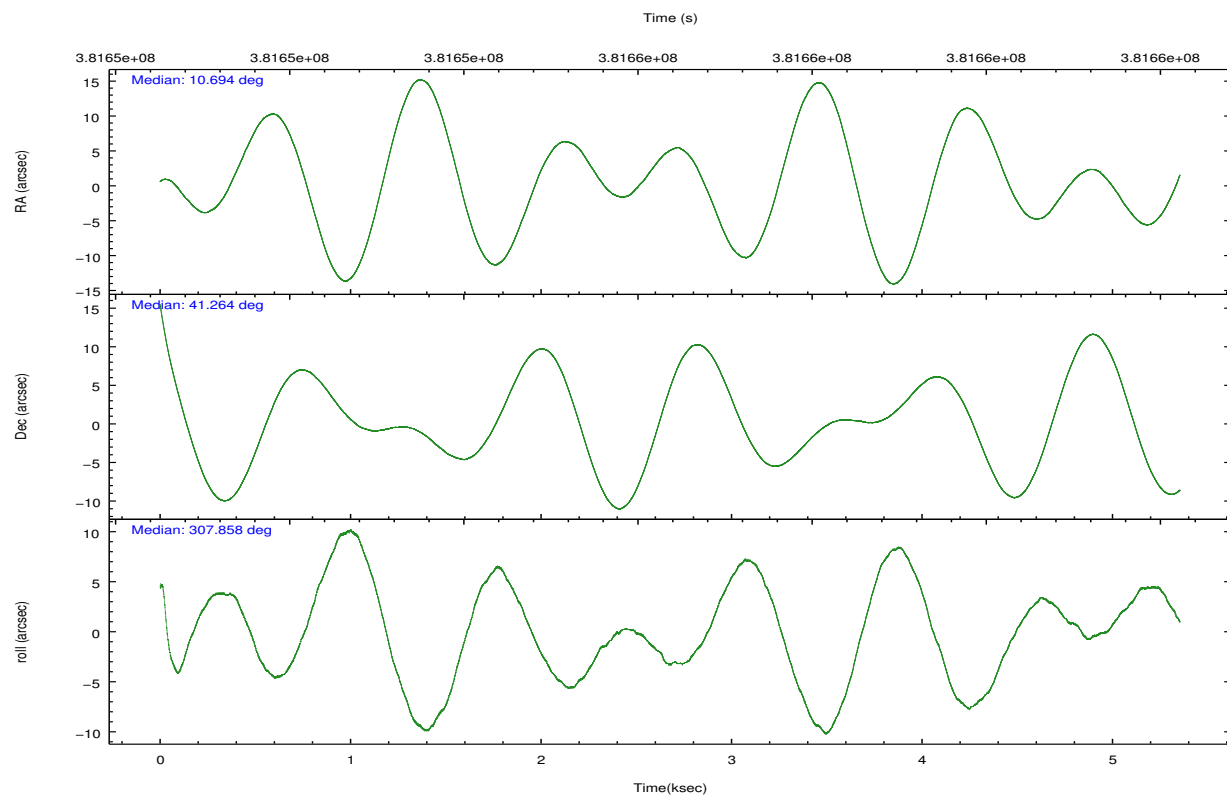
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	138	289	259	184	103	107
	3%	7%	6%	4%	2%	3%
grade 1 events	3	8	5	1	6	2
	0%	0%	0%	0%	0%	0%
grade 2 events	89	117	111	116	79	245
	2%	2%	2%	3%	1%	6%
grade 3 events	55	54	39	44	44	78
	1%	1%	0%	1%	1%	2%
grade 4 events	45	56	56	51	38	93
	1%	1%	1%	1%	0%	2%
grade 5 events	123	151	111	132	158	296
	3%	3%	2%	3%	3%	8%
grade 6 events	52	78	63	72	78	533
	1%	1%	1%	1%	1%	15%
grade 7 events	3359	3283	3461	3239	3874	2151
	86%	81%	84%	84%	88%	61%

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	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	10.659877	10.69377709951107	CCD I2 on	Y	Y
[deg] Pointing Dec	41.274600	41.26431213785265	CCD I3 on	Y	Y
[deg] Pointing Roll	307.678310	307.864643637931	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	381652867.184000	381651775.01153	CCD S5 on	N	N
Observation start date	2010-02-04T06:40:01	2010-02-04T06:22:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	381657867.184000	381658686.58688	On-chip summing requested	N	N
Observation end date	2010-02-04T08:03:21	2010-02-04T08:18:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	Y	Y
			[s] Primary exposure time	0.600000	0.6
			[s] Secondary exposure time	0.000000	3.2
			Duty cycle	5	5

2.3 Aspect



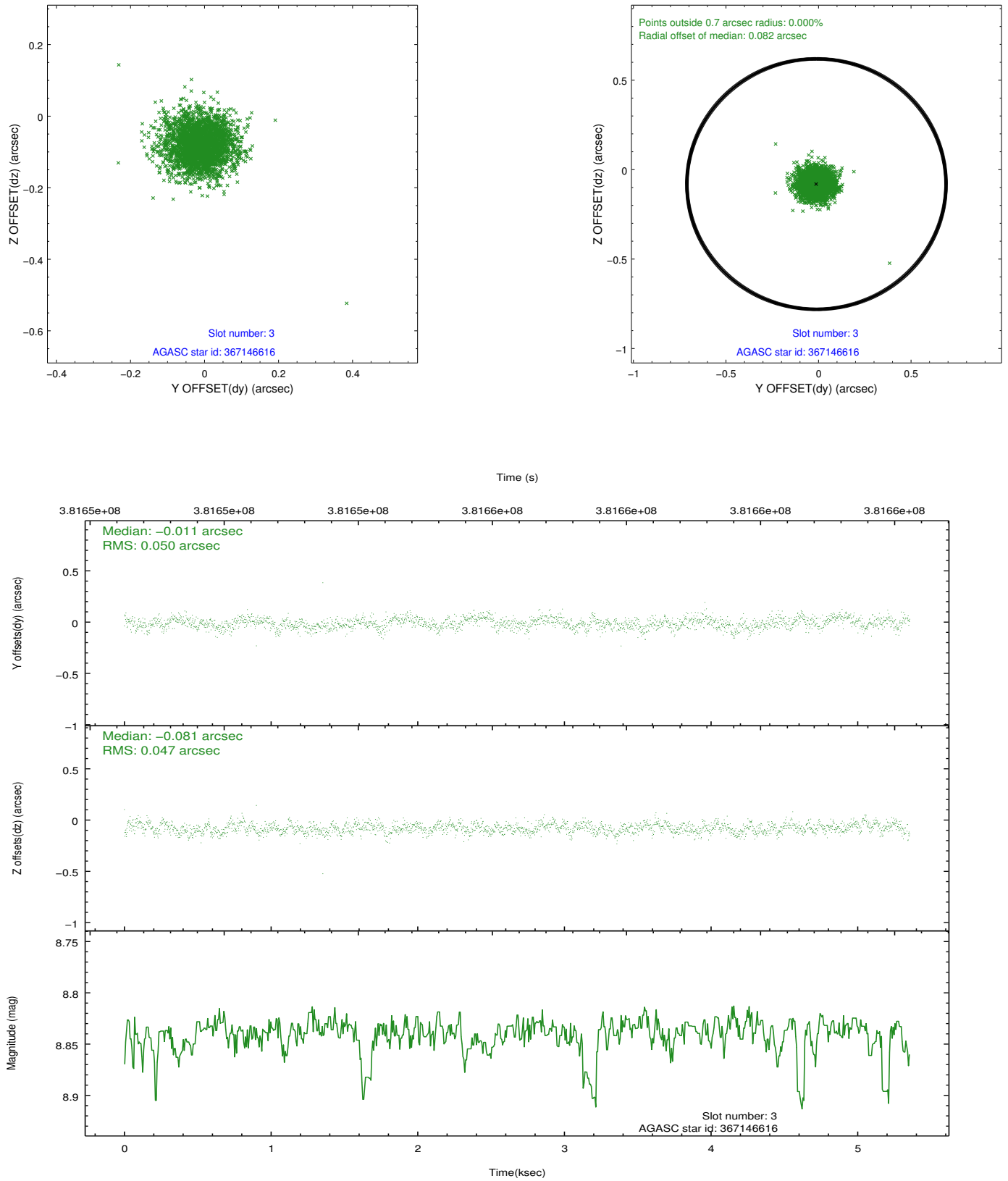


Slot Statistics

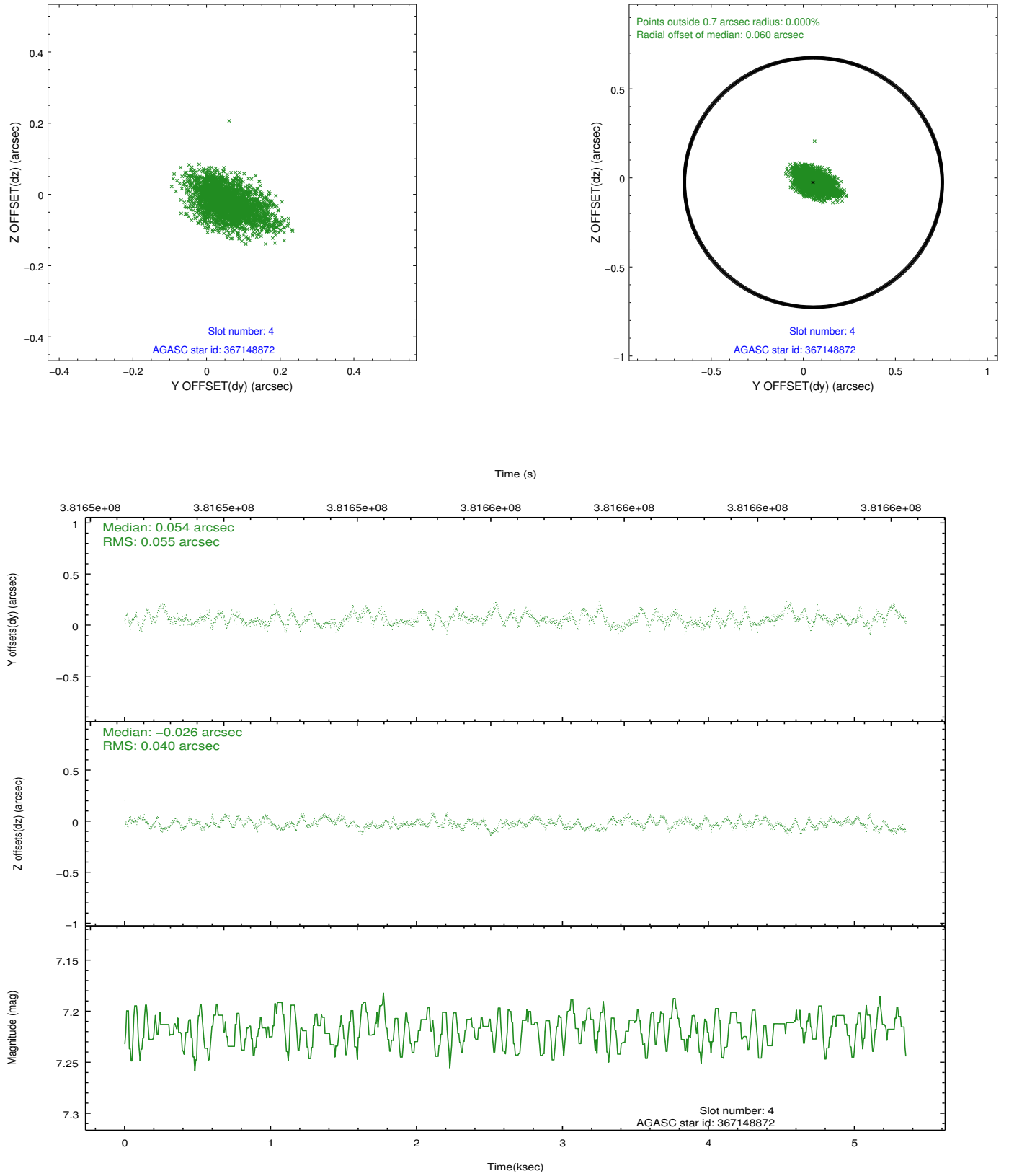
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	6.99	1306	0.033	0.021	0.006	0.011	0.000000	0.000000	923.48	-841.83
1	FID	ACIS-I-5	6.99	1306	-0.200	0.048	0.005	0.009	0.000000	0.000000	-1824.24	1055.11
2	FID	ACIS-I-6	7.01	1306	0.075	0.002	0.006	0.010	0.000000	0.000000	387.84	1700.85
3	GUIDE	367146616	8.84	2592	-0.011	-0.081	0.071	0.117	11.418645	41.190163	1489.98	1447.01
4	GUIDE	367148872	7.22	2613	0.054	-0.026	0.070	0.122	10.505940	40.688258	1415.01	-1622.06
5	GUIDE	367657896	8.99	2604	-0.011	0.050	0.089	0.146	11.197765	41.313576	775.03	1239.48
6	GUIDE	367663272	9.28	2611	-0.057	0.026	0.102	0.160	10.656279	41.699429	-1216.16	926.94
7	GUIDE	367674552	8.85	2608	0.017	0.024	0.080	0.131	11.016238	41.570845	-259.20	1413.39

2.4 Star Slots

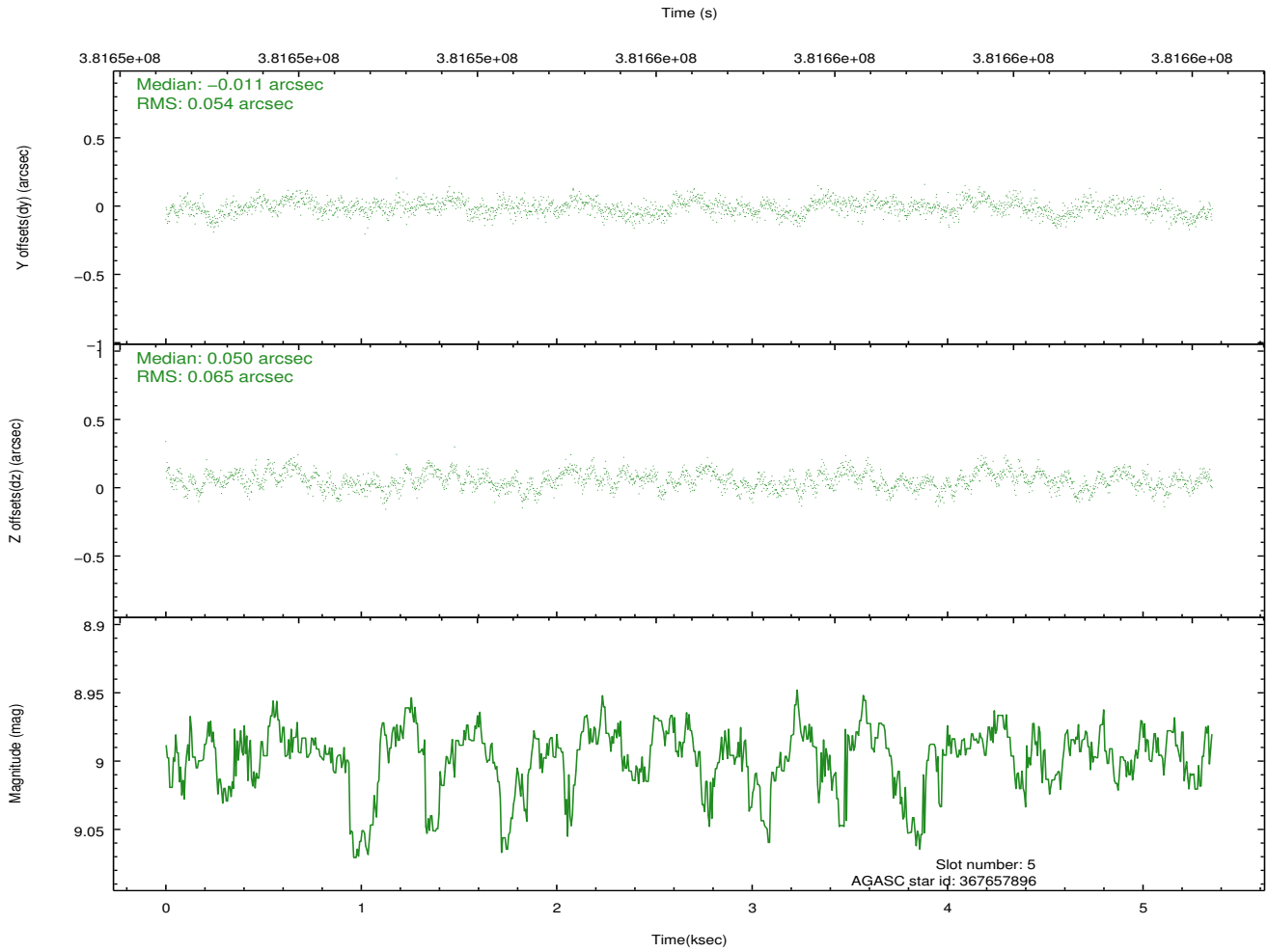
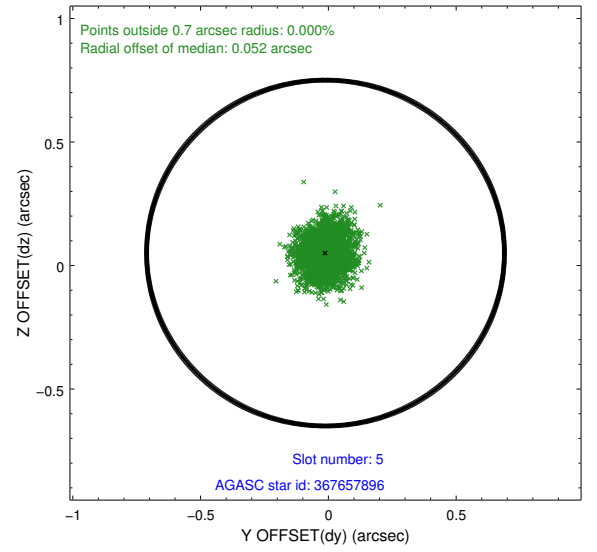
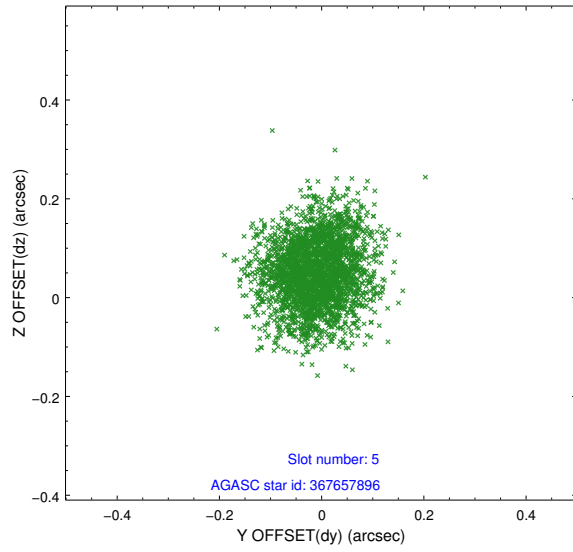
2.4.1 Slot 3



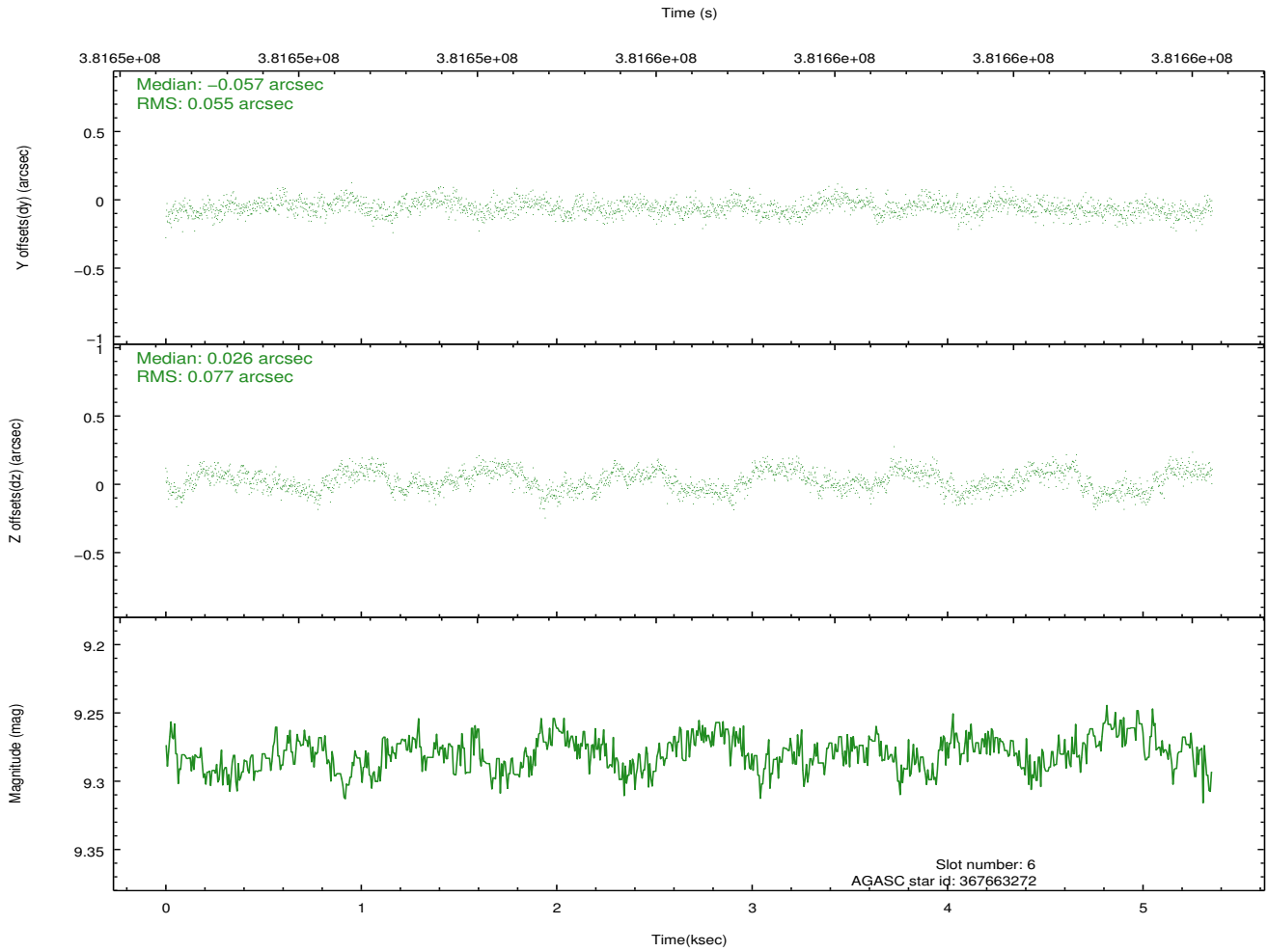
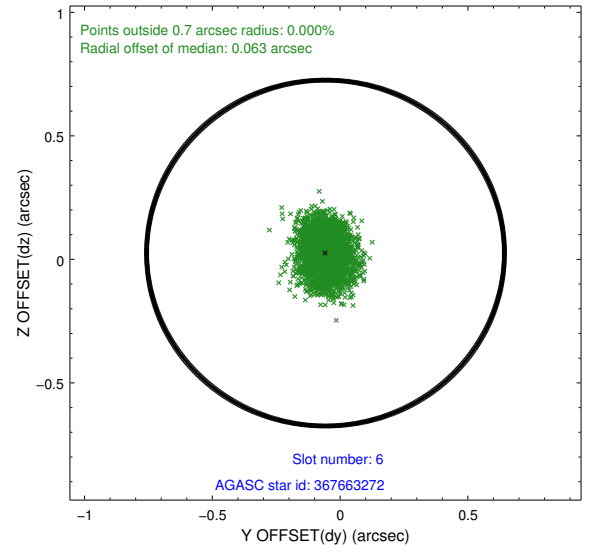
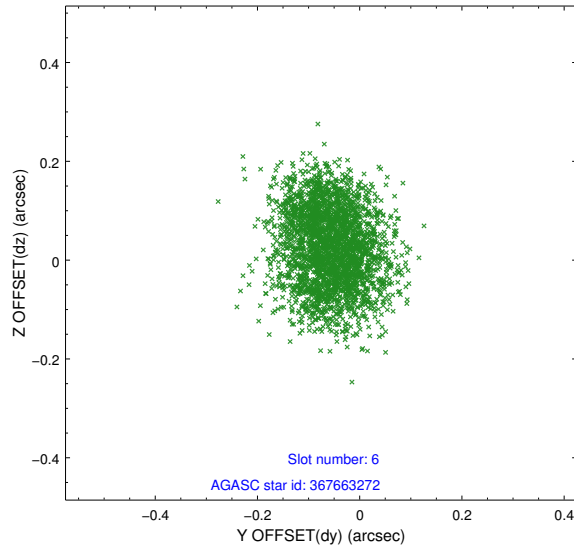
2.4.2 Slot 4



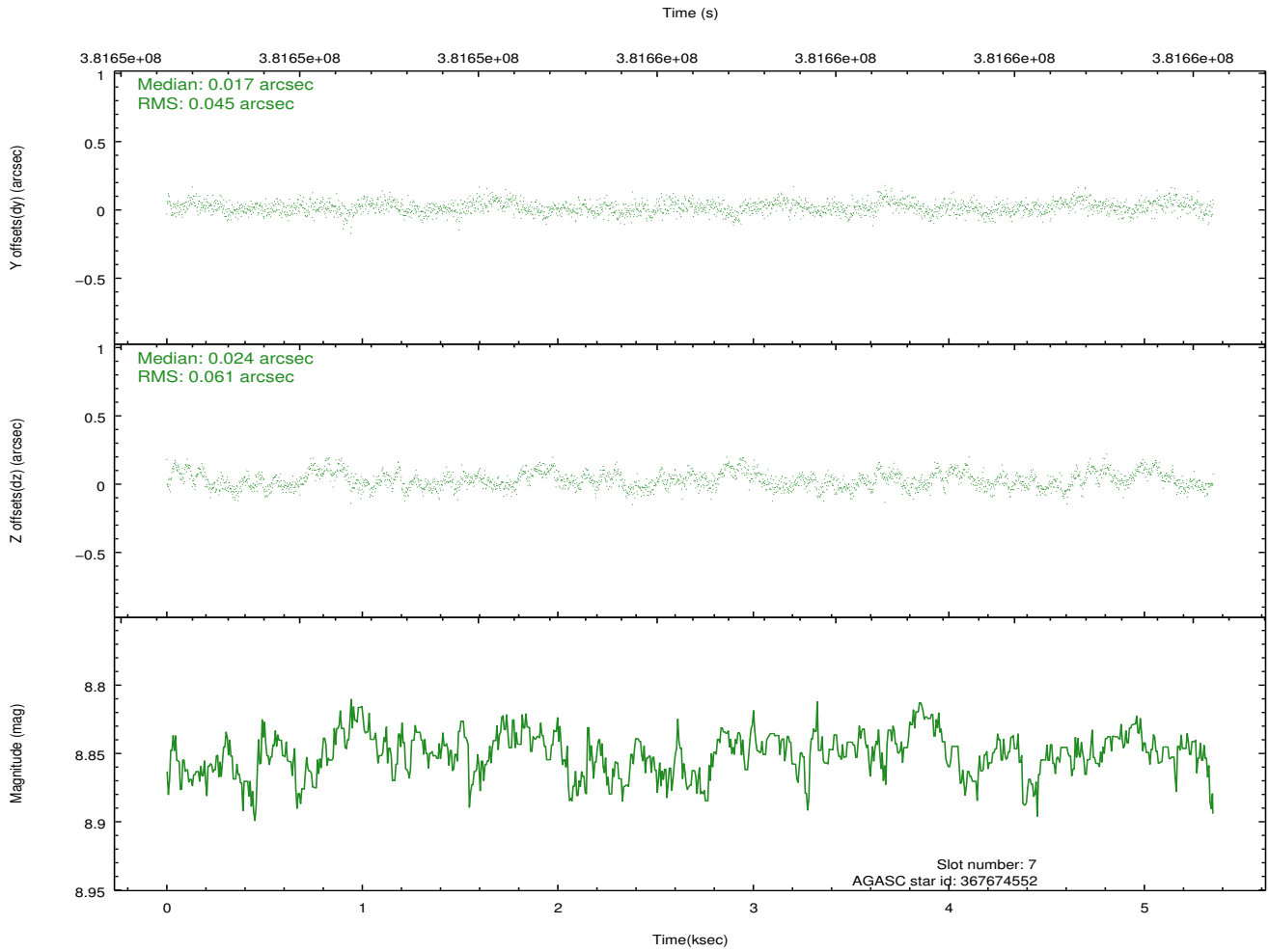
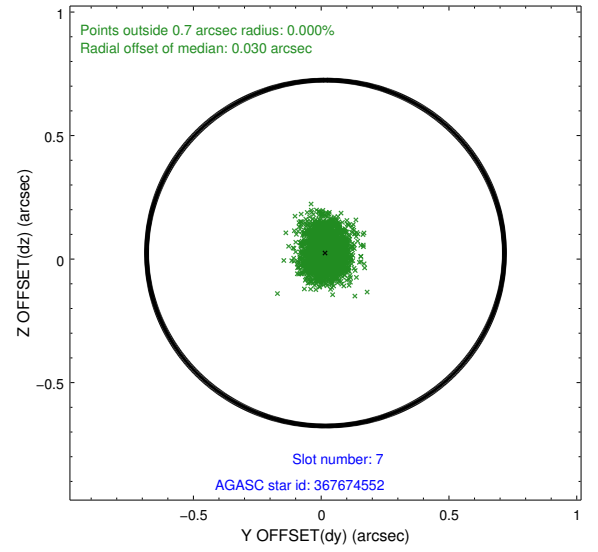
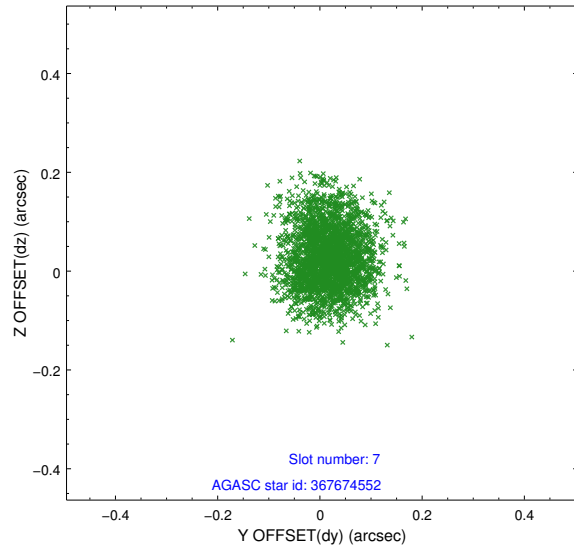
2.4.3 Slot 5



2.4.4 Slot 6

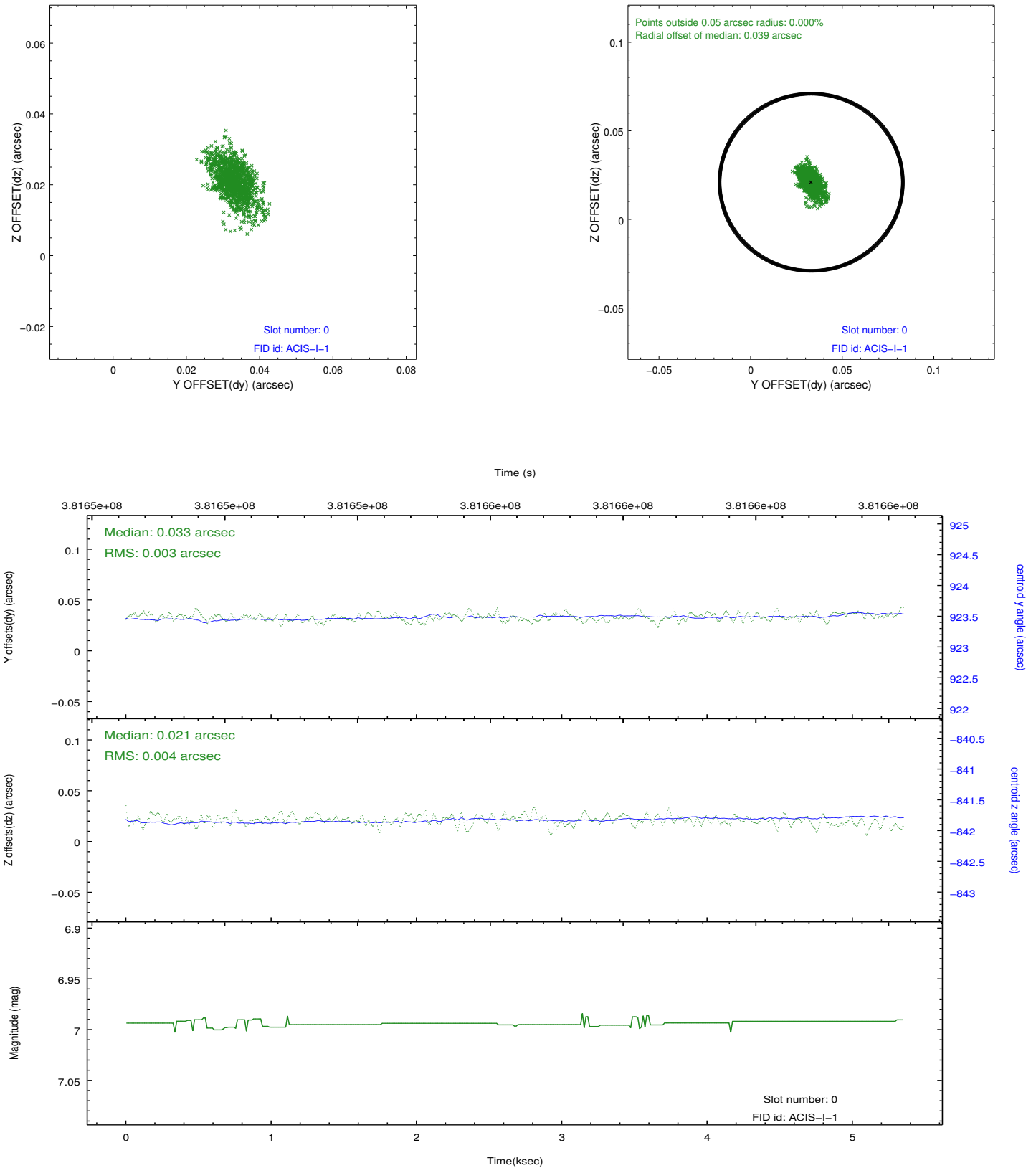


2.4.5 Slot 7

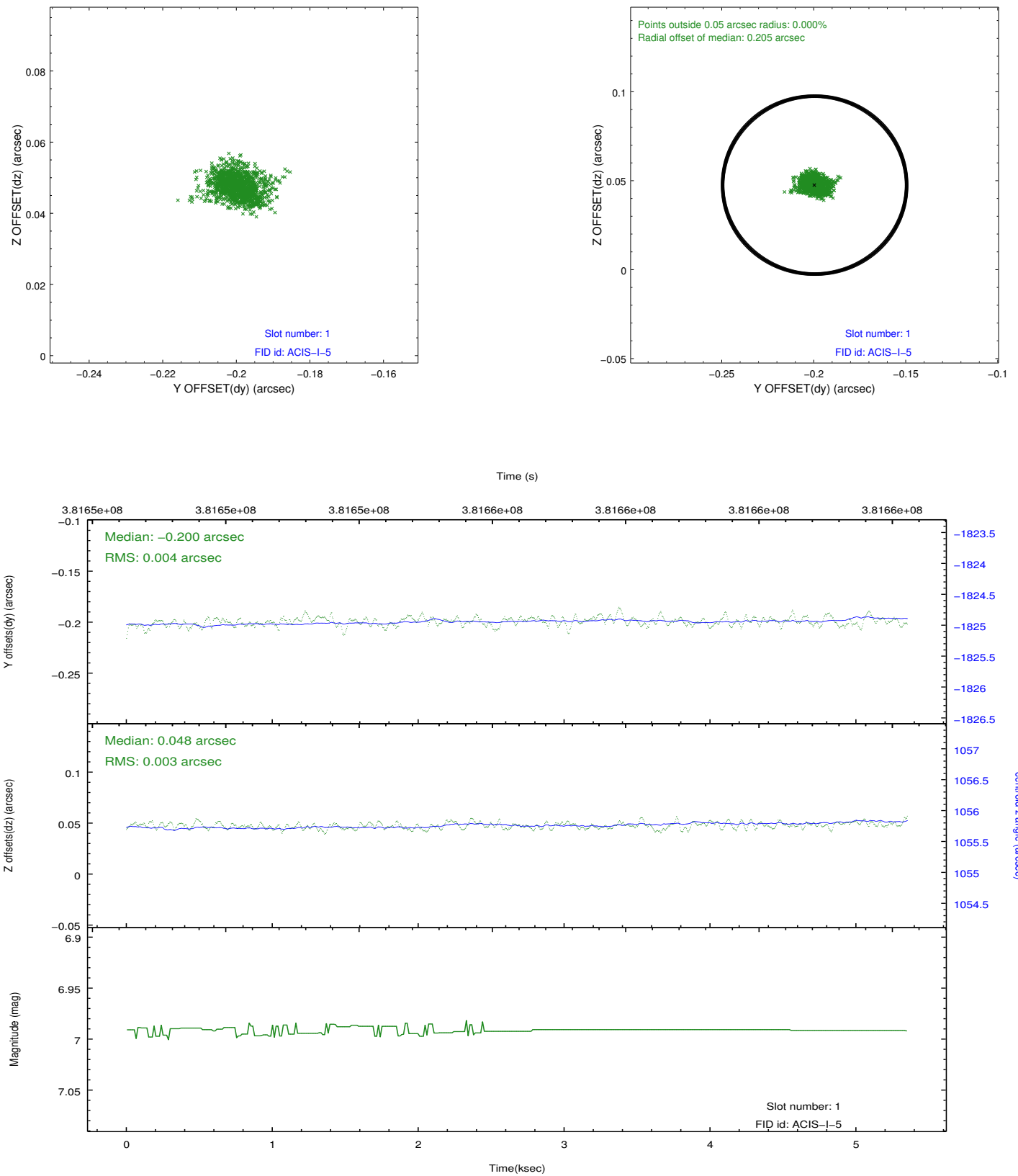


2.5 FID Slots

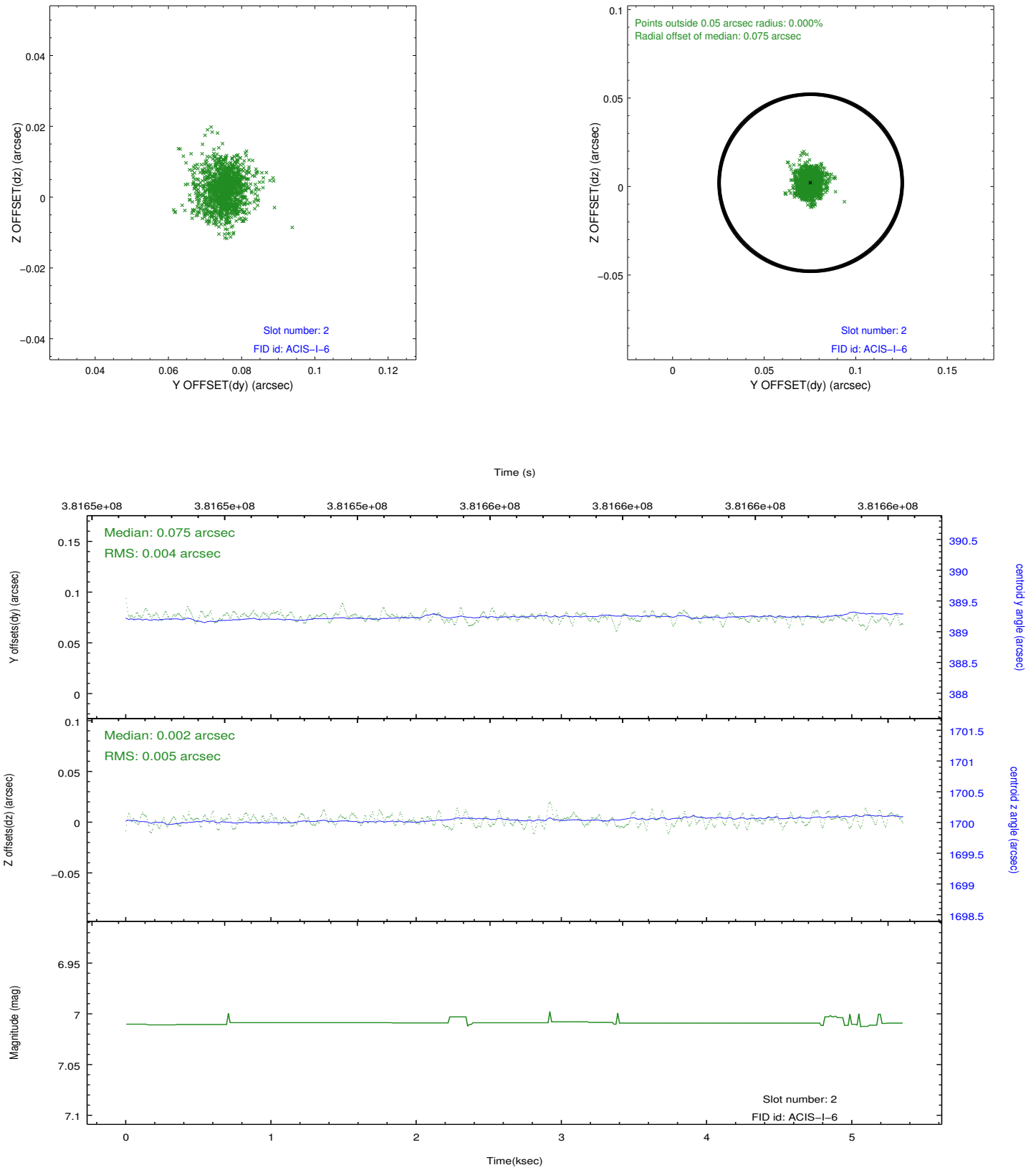
2.5.1 Slot 0



2.5.2 Slot 1



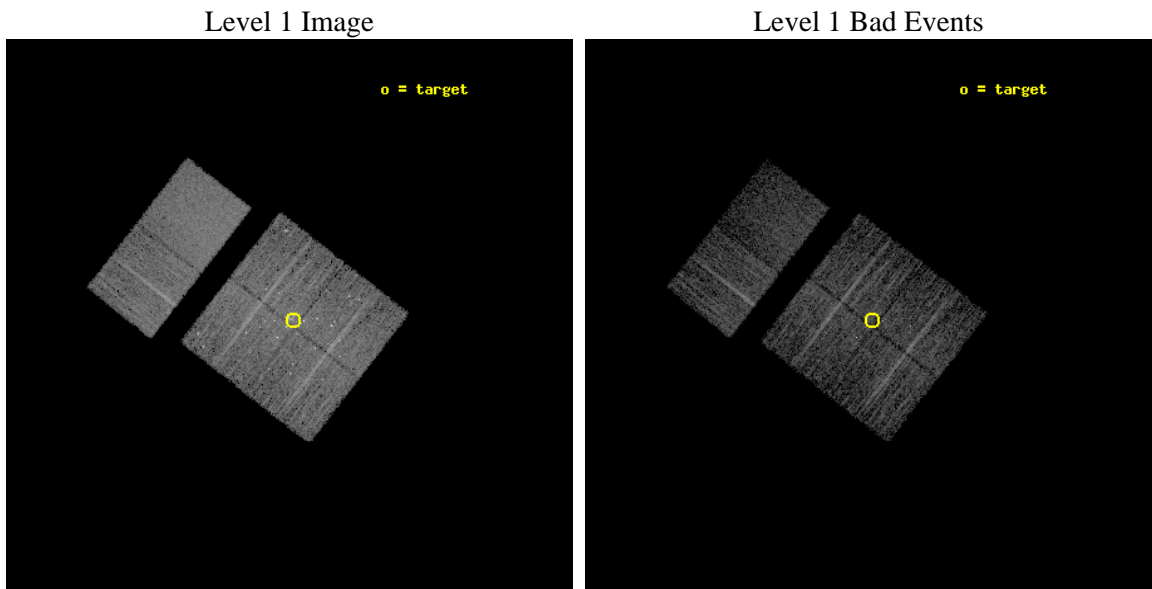
2.5.3 Slot 2



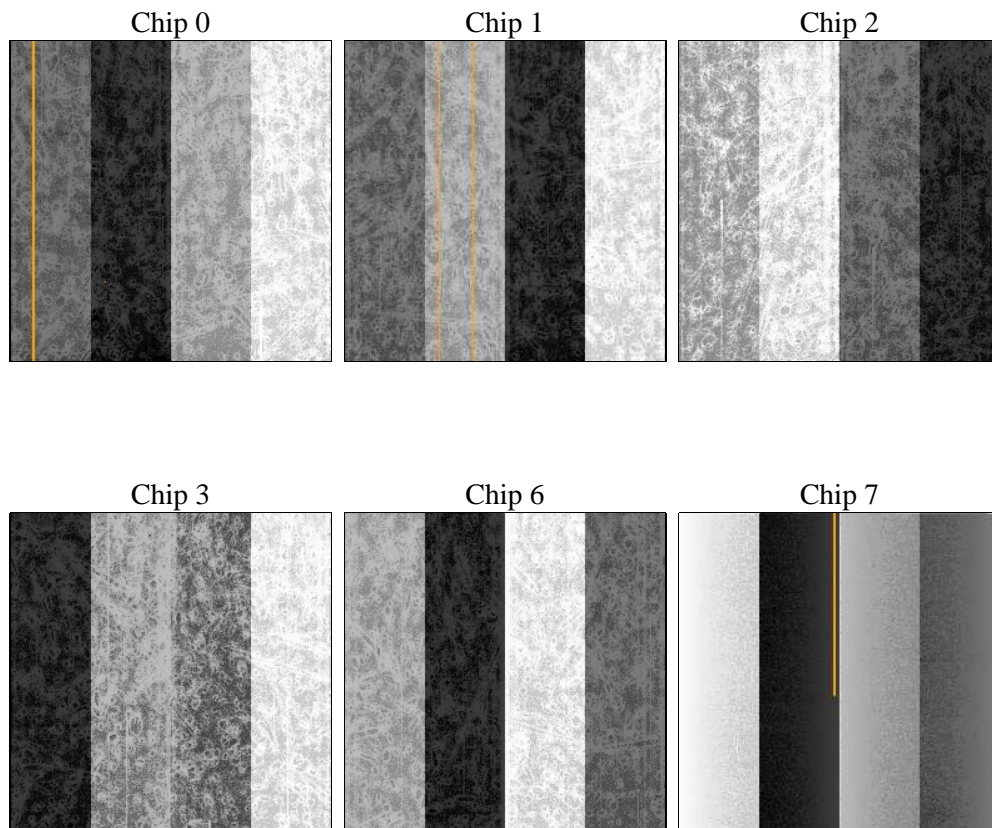
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4019.2027155161	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	4019.2023878098	Sum of GTIs [s]
date	2012-06-20T23:58:12	Date and time of file creation	ontime1	4019.2025969028	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	4019.2026363015	Sum of GTIs [s]
			ontime3	4019.2027155161	Sum of GTIs [s]
			ontime6	4019.2028357387	Sum of GTIs [s]
			ontime7	4019.2024372816	Sum of GTIs [s]
			l1events	215634	Number of level 1 events

3.1.4 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	32555	36703	38011	34646	33842	39877	grade 0 events	2541	4956	4323	3860	1539	1787
rejected events	27351	27945	30485	28128	29850	21673		7%	13%	11%	11%	4%	4%
rejected %	84%	76%	80%	81%	88%	54%	grade 1 events	34	182	183	45	18	44
								0%	0%	0%	0%	0%	0%
							grade 2 events	1115	1587	1328	988	852	3728
								3%	4%	3%	2%	2%	9%
							grade 3 events	442	572	535	467	391	1644
								1%	1%	1%	1%	1%	4%
							grade 4 events	410	599	562	476	388	1669
								1%	1%	1%	1%	1%	4%
							grade 5 events	1295	1538	1392	1390	1418	4186
								3%	4%	3%	4%	4%	10%
							grade 6 events	701	1048	781	737	823	9391
								2%	2%	2%	2%	2%	23%
							grade 7 events	26017	26221	28907	26683	28413	17428
								79%	71%	76%	77%	83%	43%

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.95697923302646

A.2 Comments

Joint proposal with HST.