

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 16476 - L2 Version 3
Chandra X-Ray Center

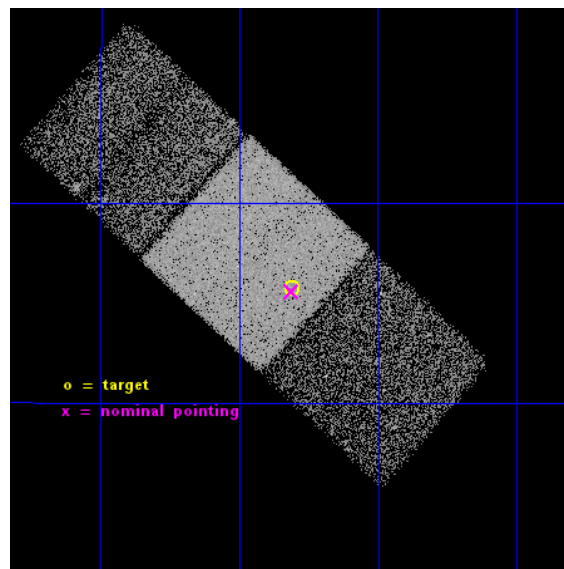
L2 Processing Date : Dec 11 2014

Contents

1	Front	2
2	OBI	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
2.5	FID Slots	13
2.5.1	Slot 0	13
2.5.2	Slot 1	14
2.5.3	Slot 2	15
A	Summary	16
A.1	Status	16
A.2	Comments	16

1 Front

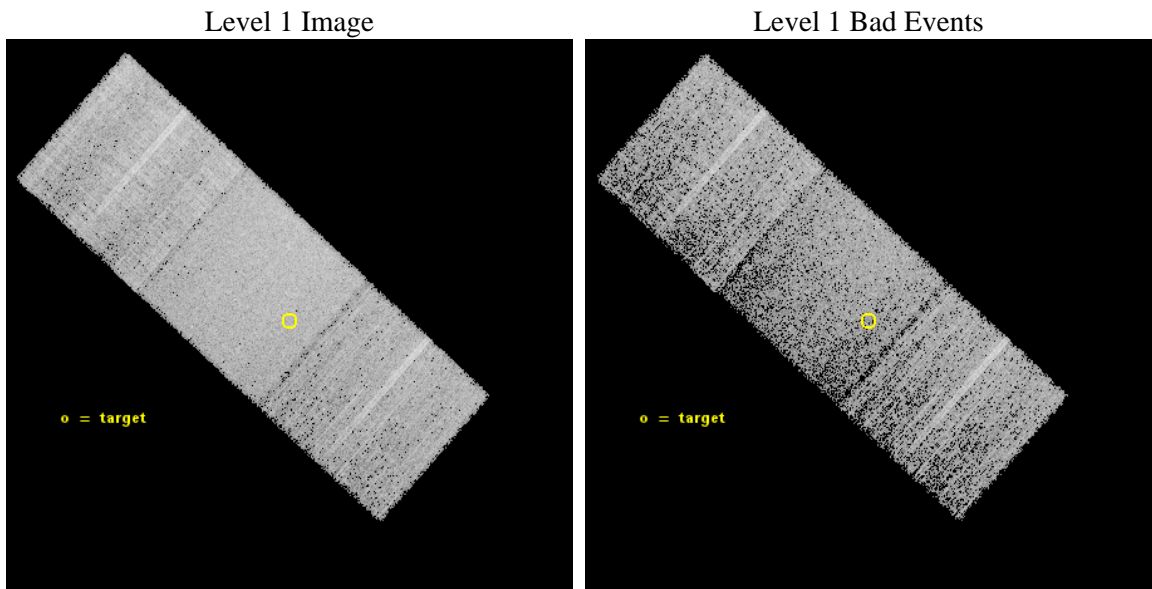
seq_num	401580	Sequence number
obs_id	16476	Observation id
title	CXOU J122518.6+144545: Type IIIn supernova or hyperluminous X-ray source?	Proposal title
observer	Ms Marianne Heida	Principal investigator
object	CXOU J122518.6+144545	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.3275	Observer's specified target RA [deg]
dec_targ	14.762694	Observer's specified target Dec [deg]
ra_nom	186.32802099428	Nominal RA [deg]
dec_nom	14.759701259245	Nominal Dec [deg]
roll_nom	222.15651724444	Nominal Roll [deg]
revision	3	Processing version of data
ontime	19117.700147033	Sum of GTIs [s]
livetime	18867.913320366	Livetime [s]
ontime6	19117.667311192	Sum of GTIs [s]
ontime7	19117.700147033	Sum of GTIs [s]
ontime8	19117.626271188	Sum of GTIs [s]
l2events	74436	Number of level 2 events



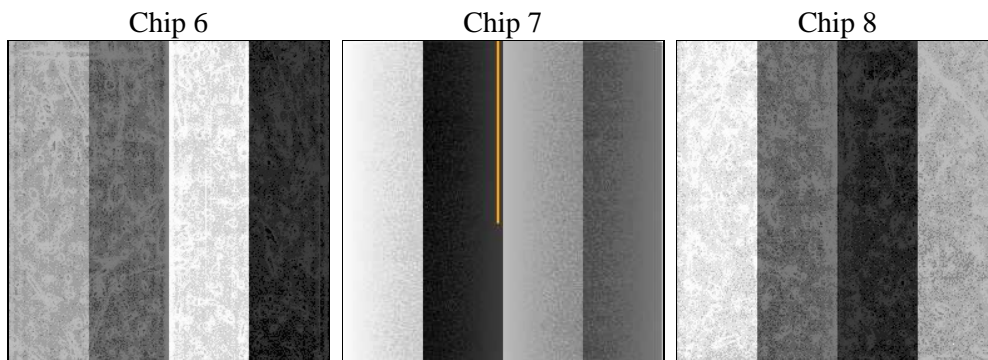
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	19117.700147033	Sum of GTIs [s]
caldbver	4.6.4	 	ontime6	19117.667311192	Sum of GTIs [s]
date	2014-12-11T11:21:16	Date and time of file creation	ontime7	19117.700147033	Sum of GTIs [s]
revision	3	Processing version of data	ontime8	19117.626271188	Sum of GTIs [s]
			l1events	336372	Number of level 1 events

2.1.4 Events

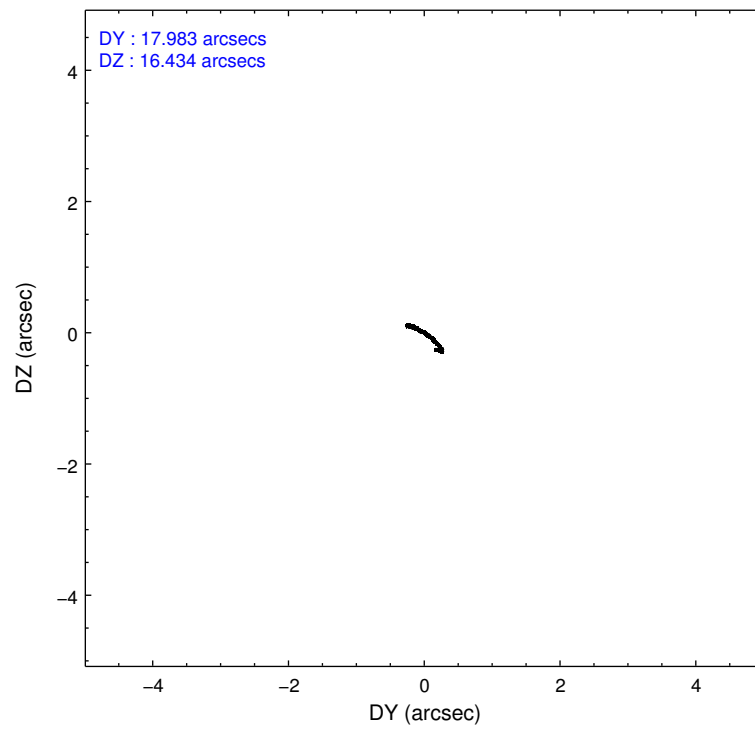
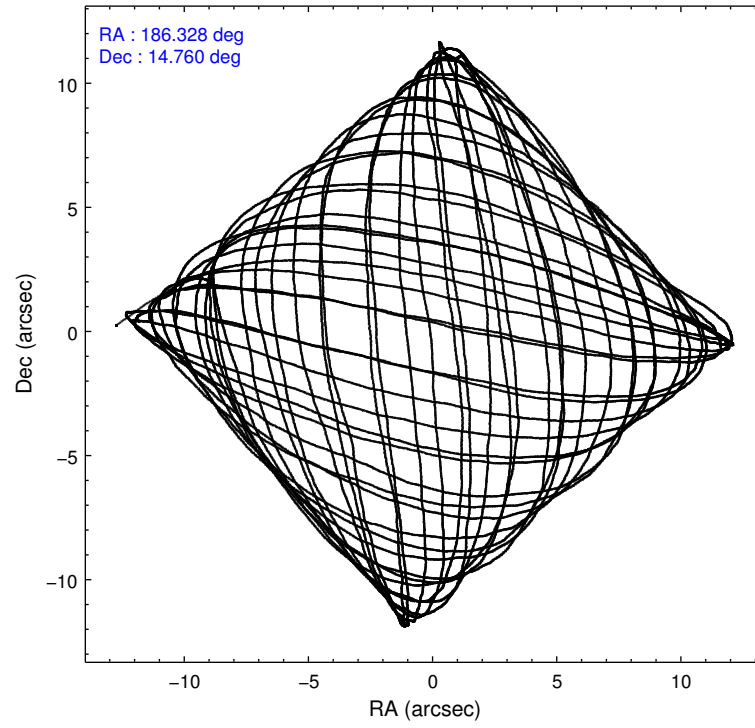
	ccd 6	ccd 7	ccd 8
level 1 events	90724	124601	121047
rejected events	79167	70170	87933
rejected %	87%	56%	72%

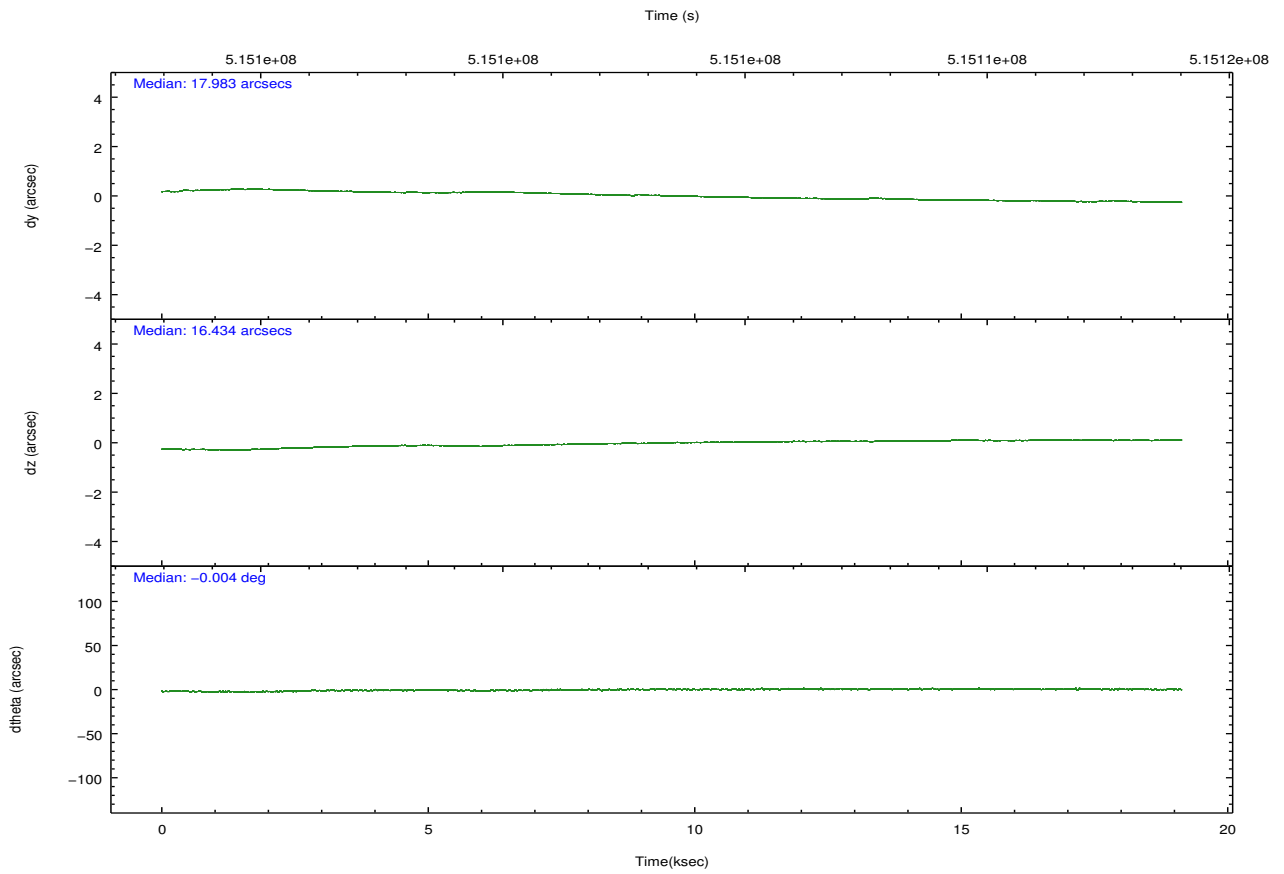
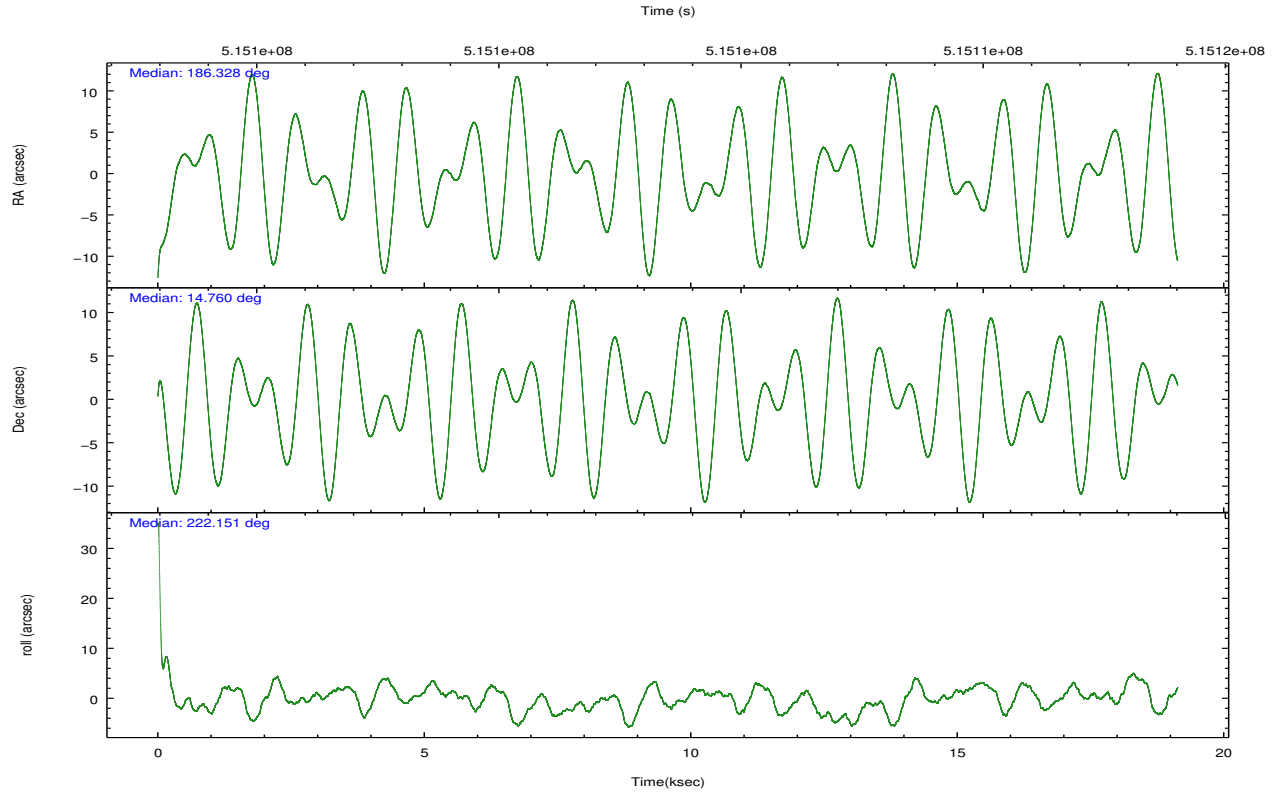
	ccd 6	ccd 7	ccd 8
grade 0 events	4087	4894	9699
	4%	3%	8%
grade 1 events	41	151	90
	0%	0%	0%
grade 2 events	2561	11099	7834
	2%	8%	6%
grade 3 events	1166	4613	3515
	1%	3%	2%
grade 4 events	1104	4602	3386
	1%	3%	2%
grade 5 events	4813	12773	7016
	5%	10%	5%
grade 6 events	2641	29234	8683
	2%	23%	7%
grade 7 events	74311	57235	80824
	81%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	186.336316	186.3280209942771	CCD I2 on	N	N
[deg] Pointing Dec	14.785851	14.75970125924465	CCD I3 on	N	N
[deg] Pointing Roll	221.997749	222.1565172444431	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O1	Y
[s] Observation start time (MET)	515094057.184000	515092437.12907	CCD S5 on	N	N
Observation start date	2014-04-28T17:39:50	2014-04-28T17:13:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	515113057.184000	515113454.75523	On-chip summing requested	N	N
Observation end date	2014-04-28T22:56:30	2014-04-28T23:04:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





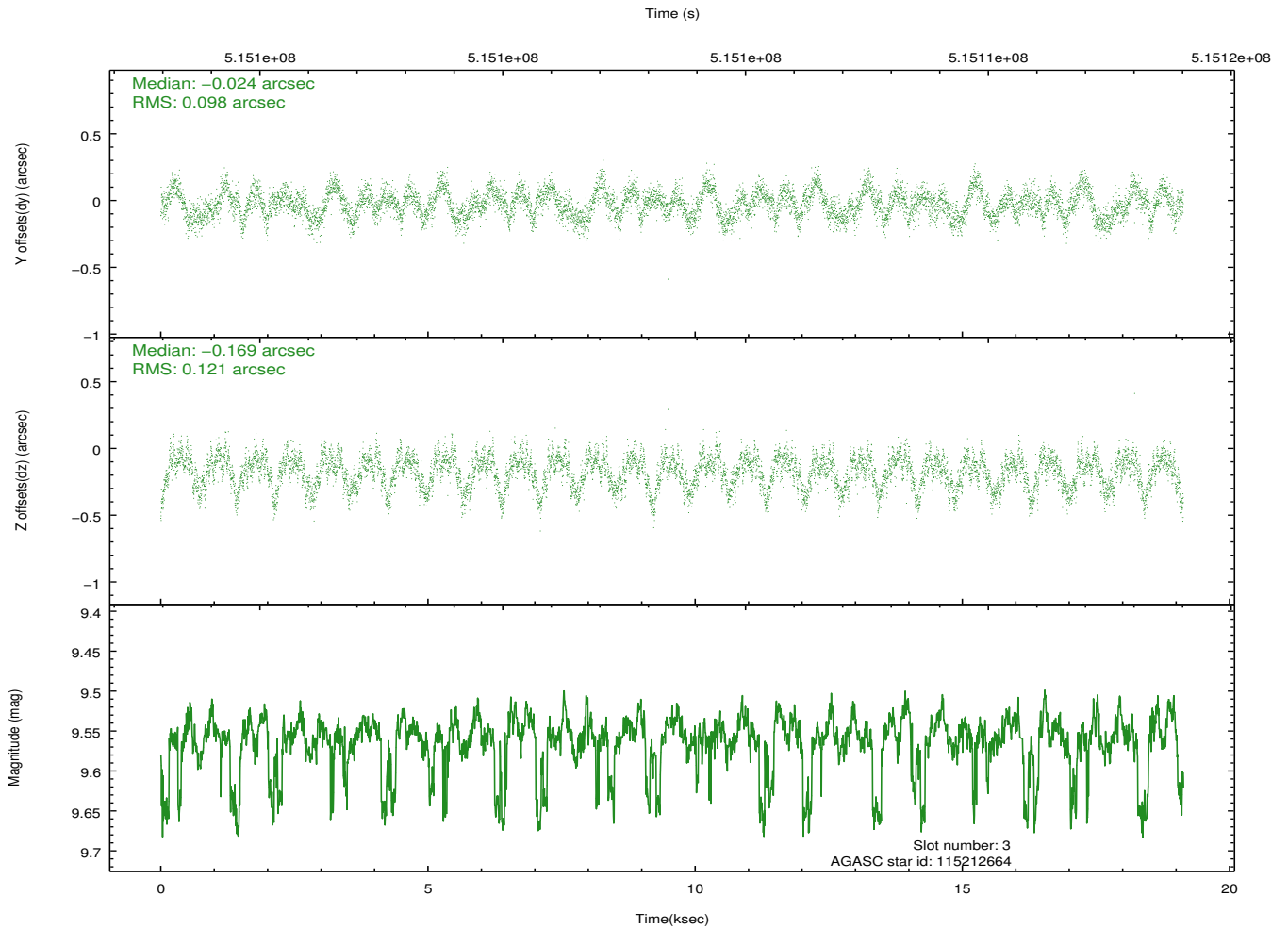
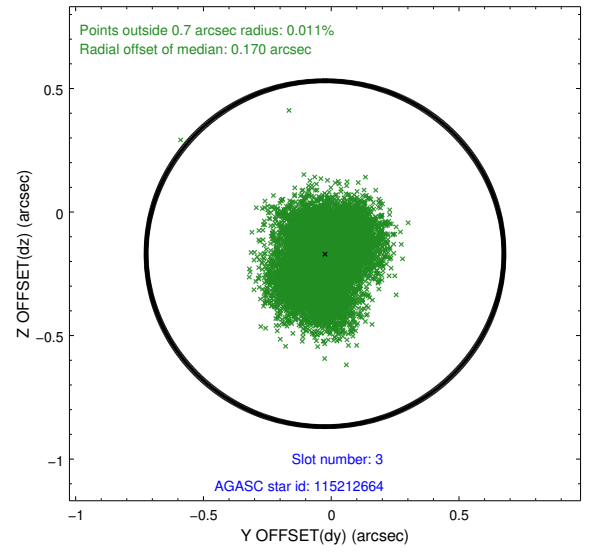
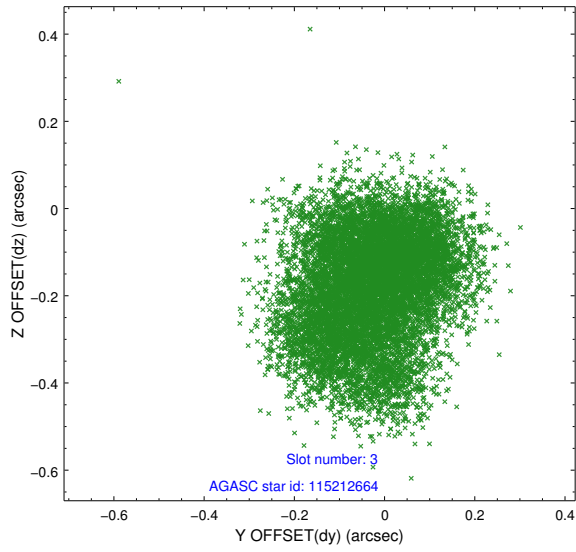
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.99	4666	-0.111	-0.028	0.007	0.012	0.000000	0.000000	-771.15	-1737.84
1	FID		ACIS-S-4	7.07	4667	0.299	0.061	0.009	0.016	0.000000	0.000000	2142.44	170.52
2	FID		ACIS-S-5	7.10	4667	-0.219	-0.024	0.009	0.015	0.000000	0.000000	-1823.84	164.34
3	GUIDE	used	115212664	9.56	9323	-0.024	-0.169	0.169	0.262	186.112214	14.500161	1269.98	242.39
4	GUIDE	used	115213096	9.61	9328	0.281	-0.091	0.158	0.251	185.485027	14.844352	2058.51	-2141.01
5	GUIDE	used	115344416	7.90	9332	-0.194	0.084	0.133	0.225	186.624628	14.572004	-231.29	1243.69
6	GUIDE	used	189399280	9.92	9320	-0.040	0.208	0.191	0.320	186.536897	15.337958	-1847.06	-1011.00
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

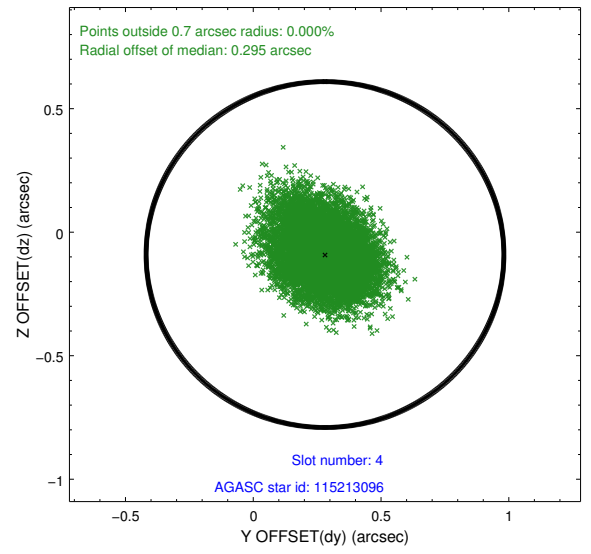
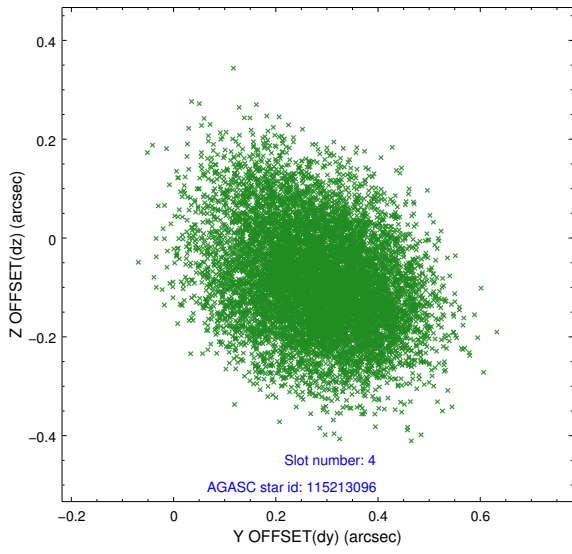
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2.4 Star Slots

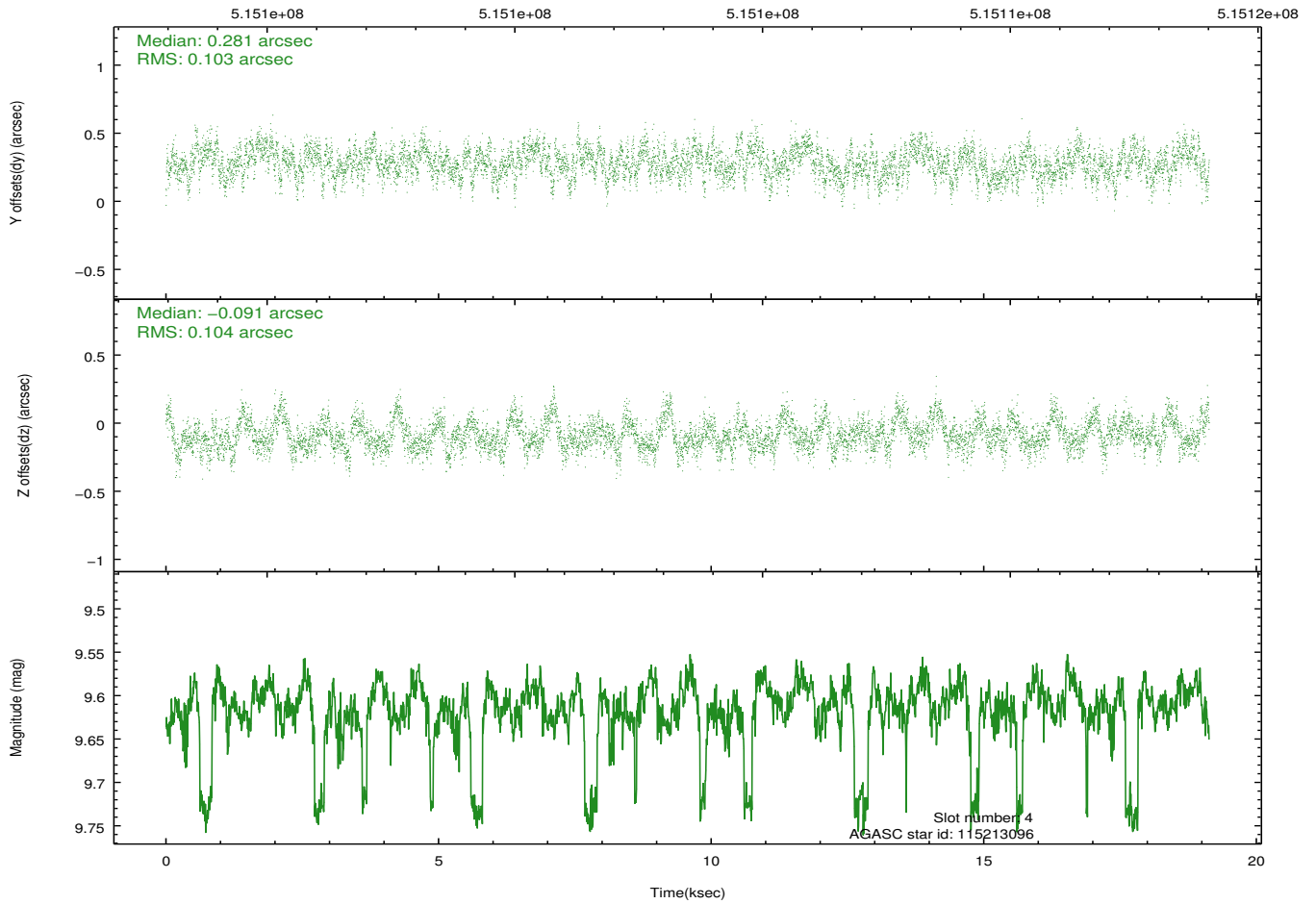
2.4.1 Slot 3



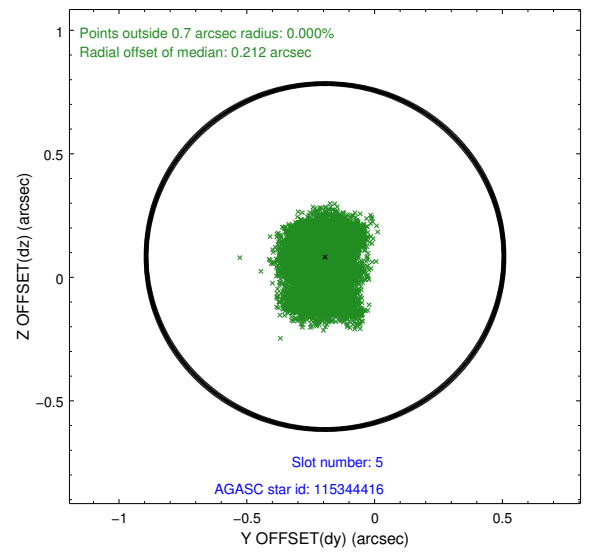
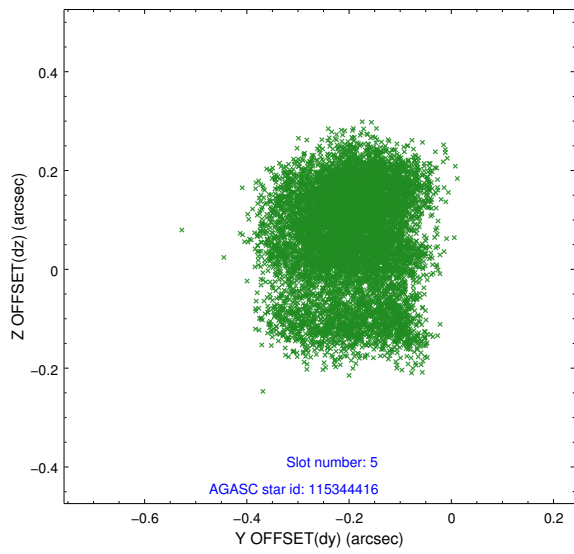
2.4.2 Slot 4



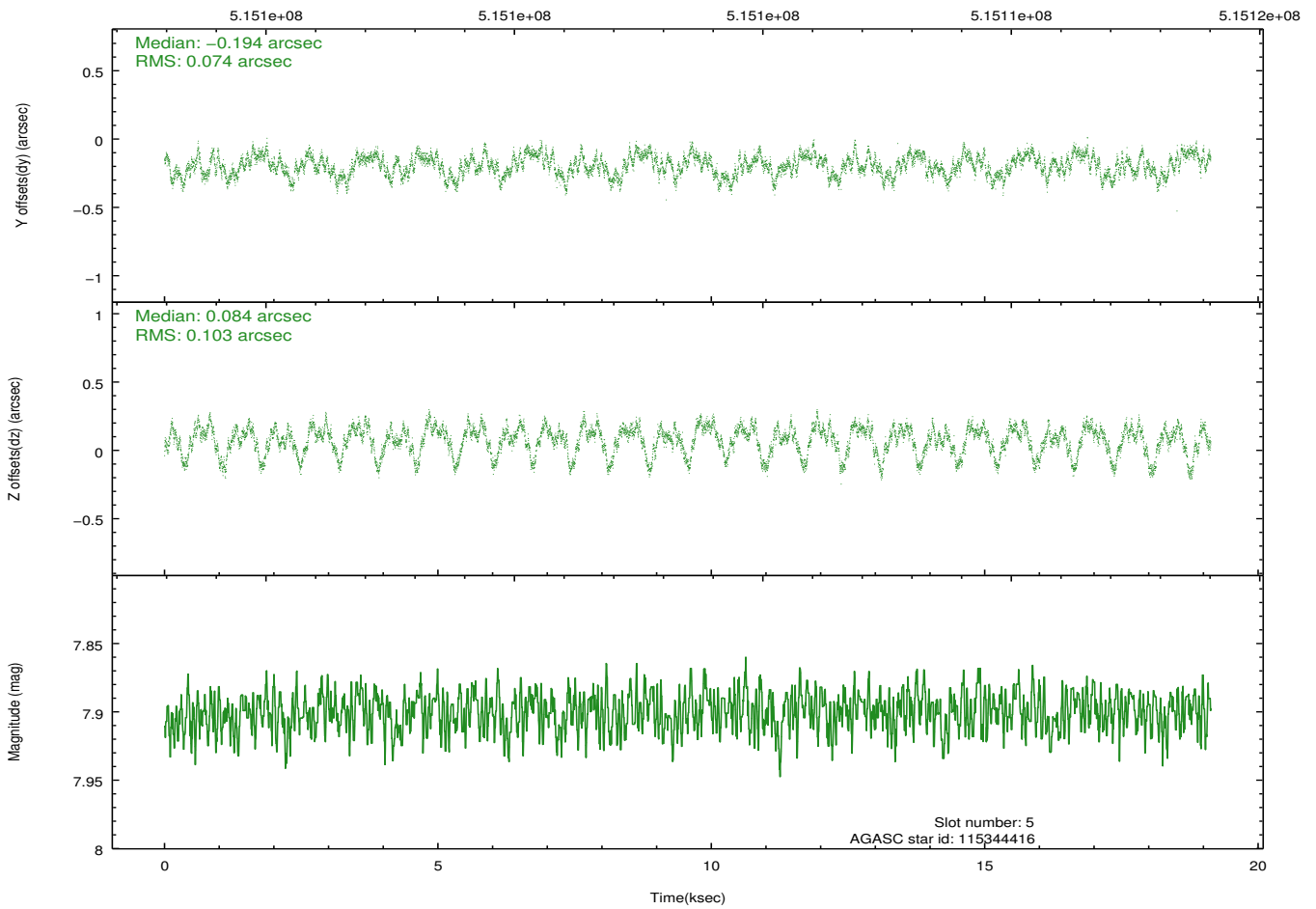
Time (s)



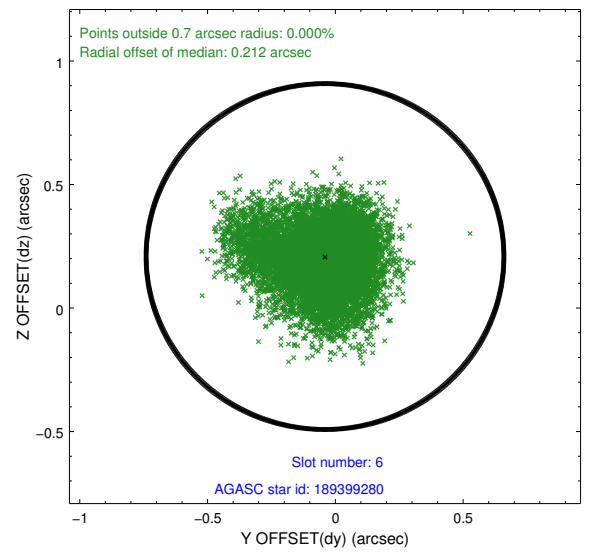
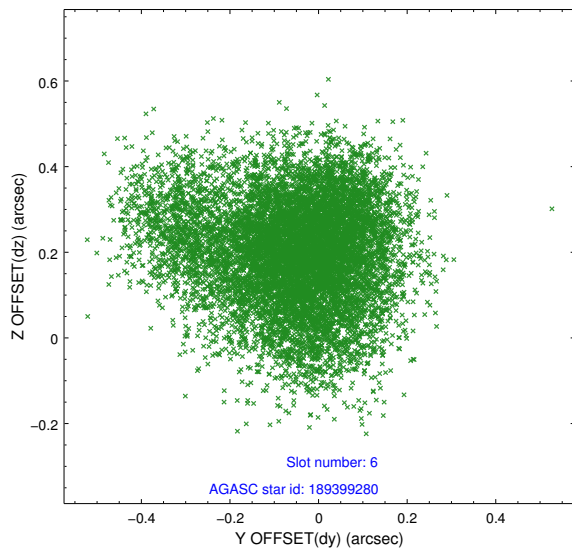
2.4.3 Slot 5



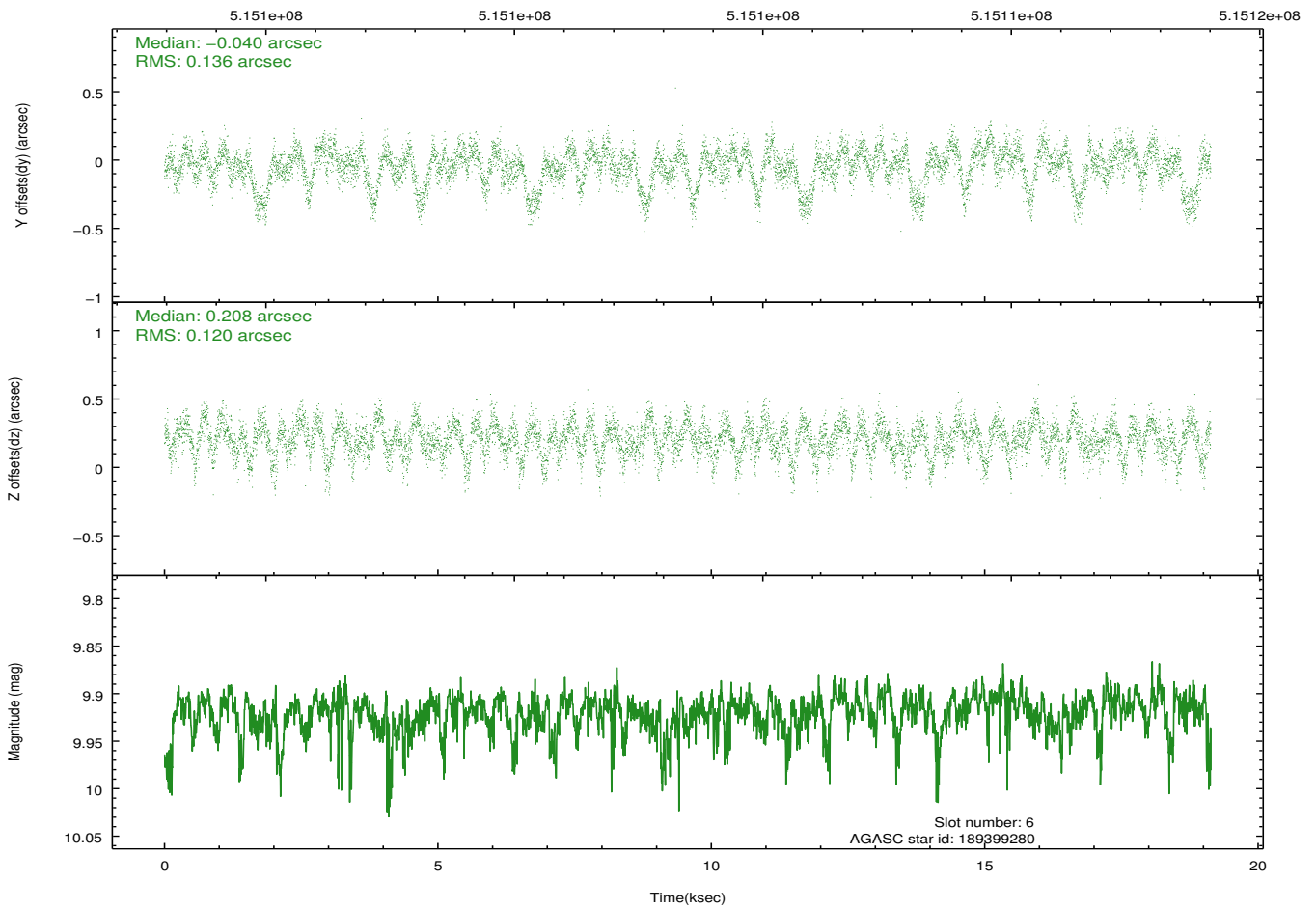
Time (s)



2.4.4 Slot 6

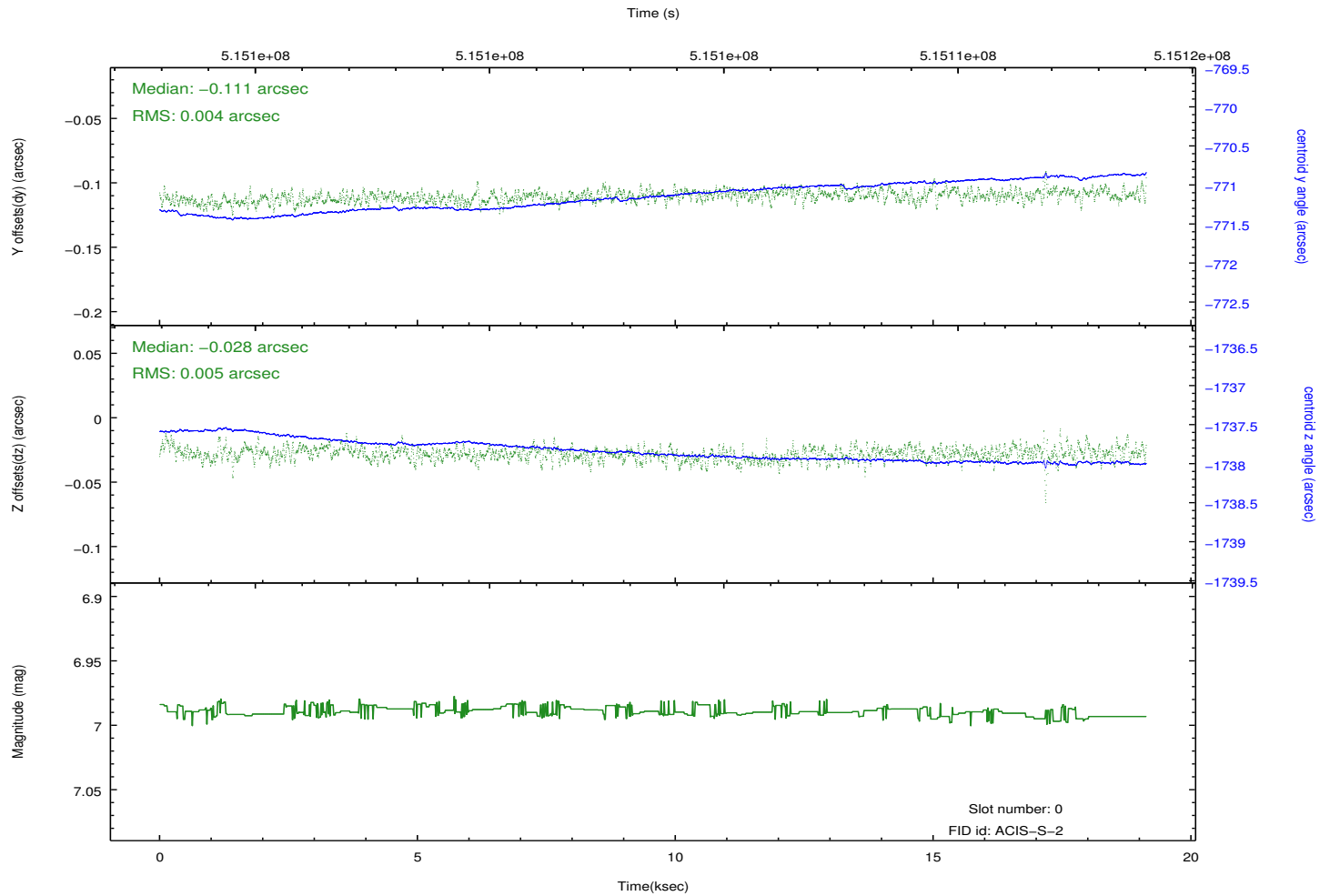
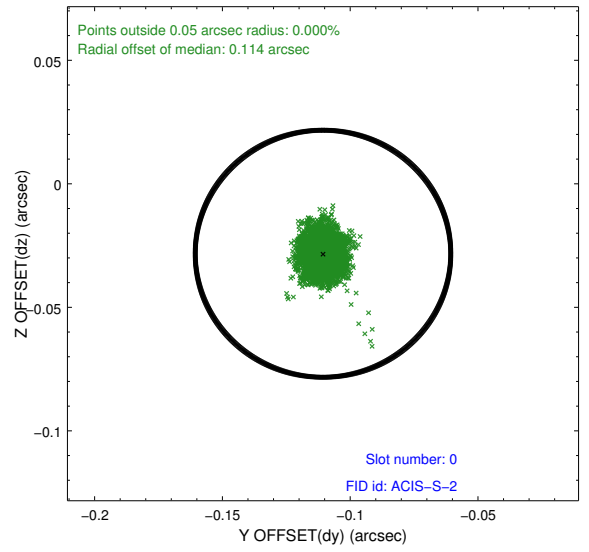
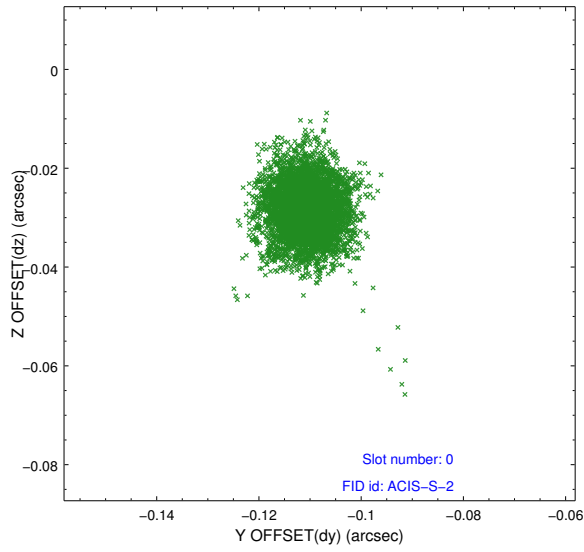


Time (s)

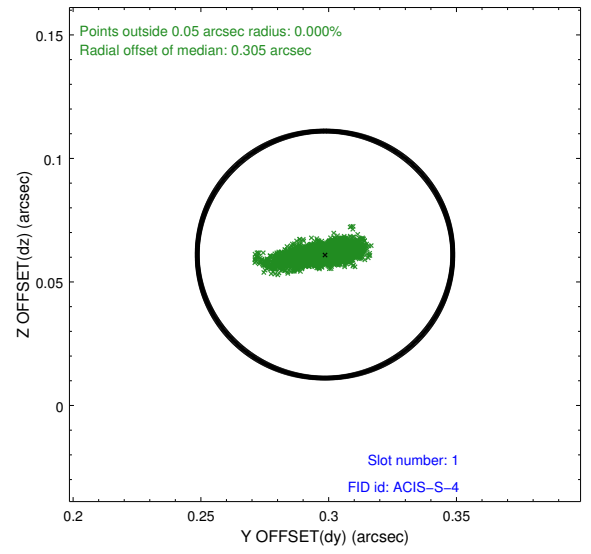
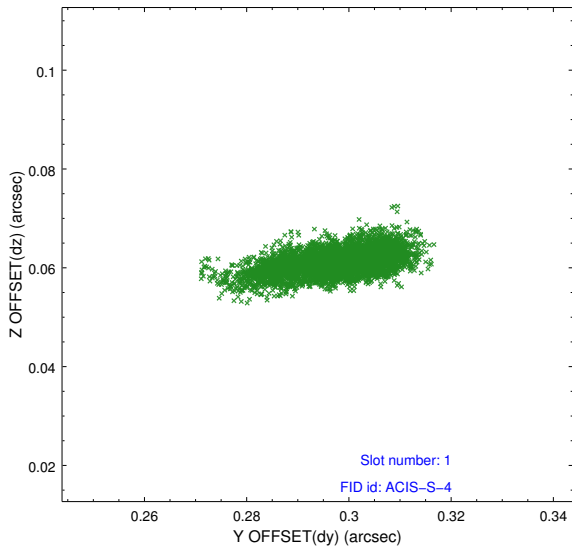


2.5 FID Slots

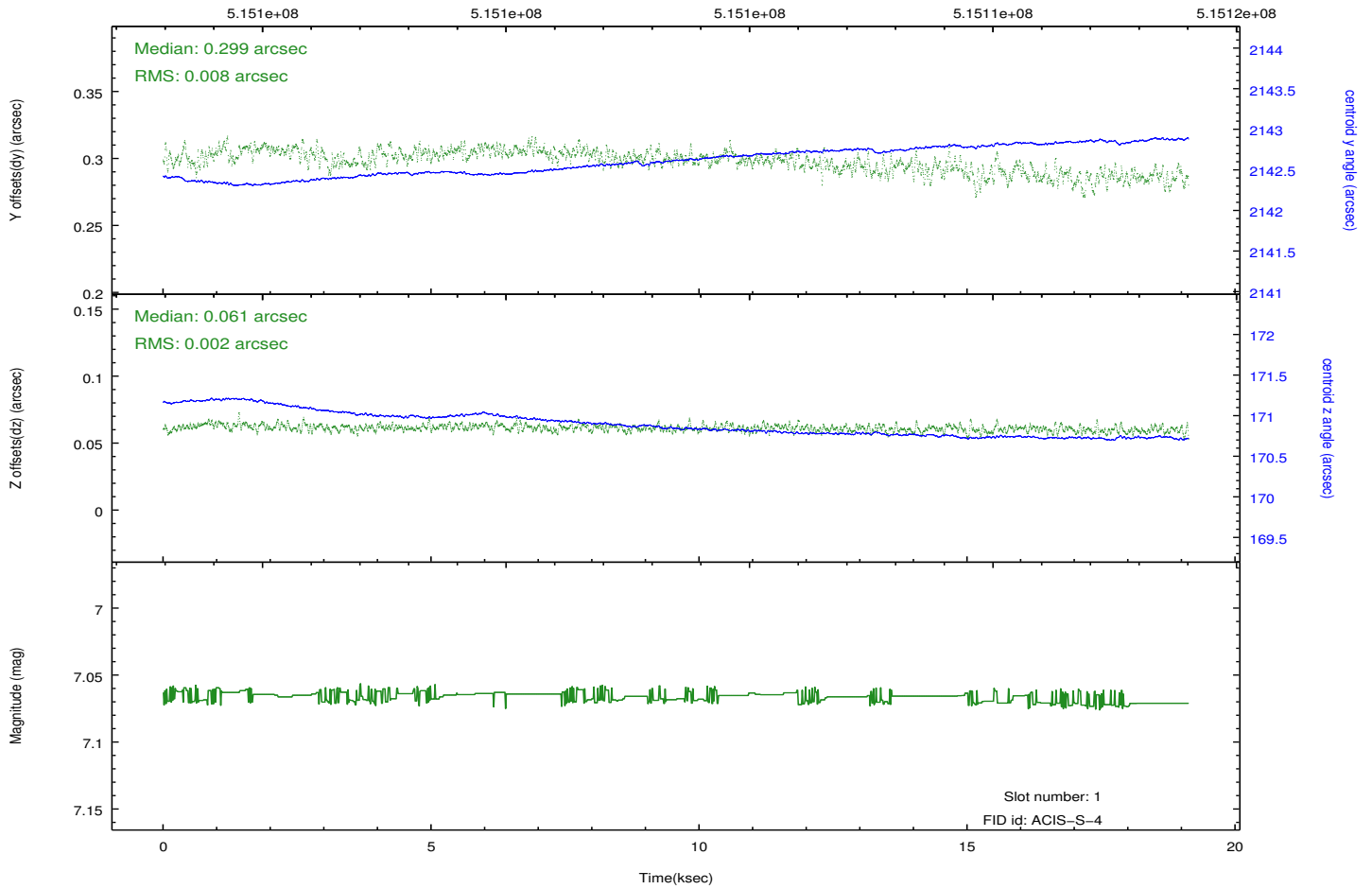
2.5.1 Slot 0



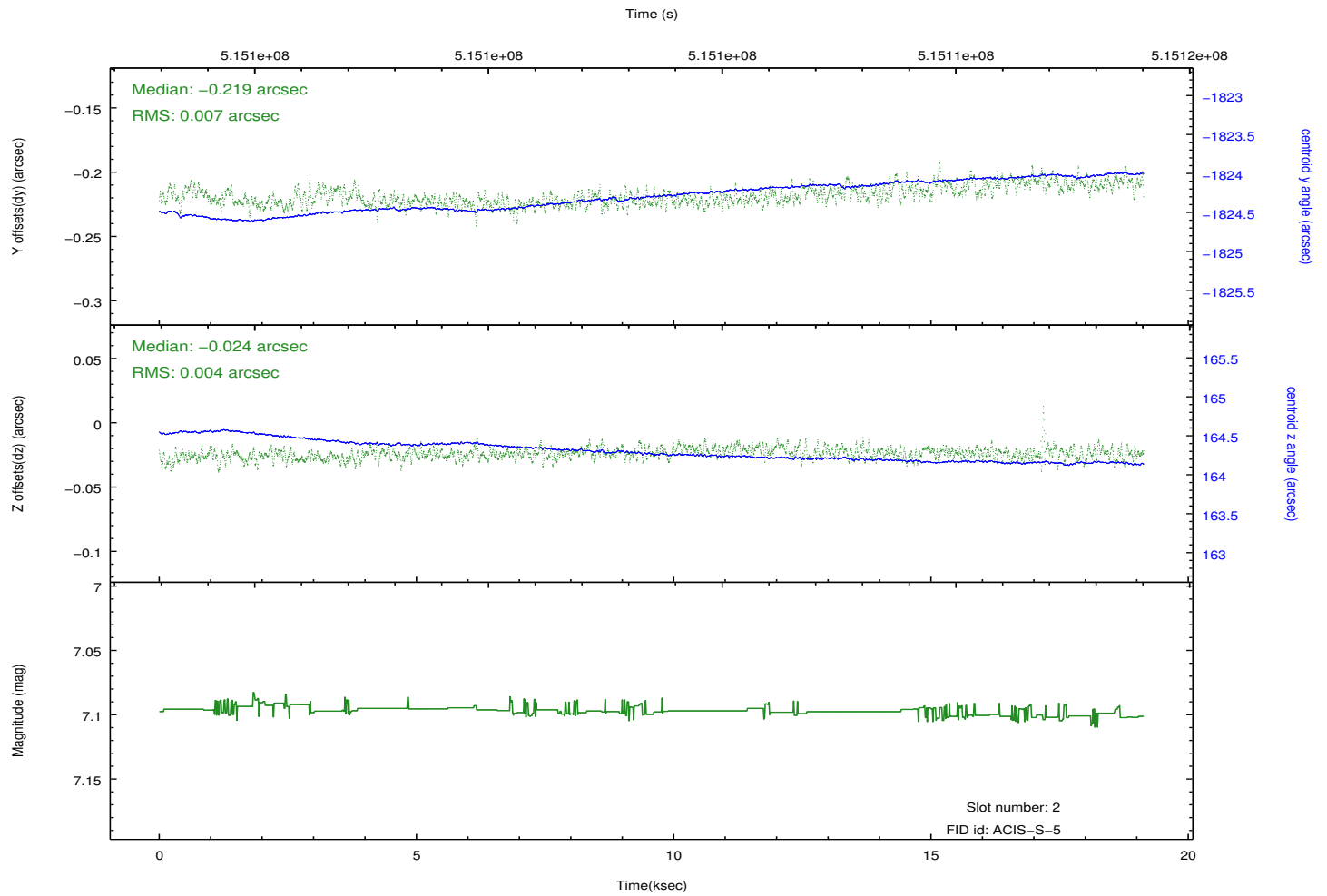
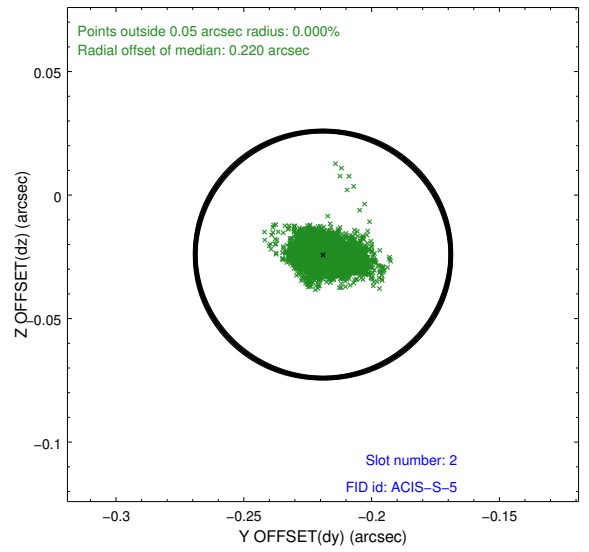
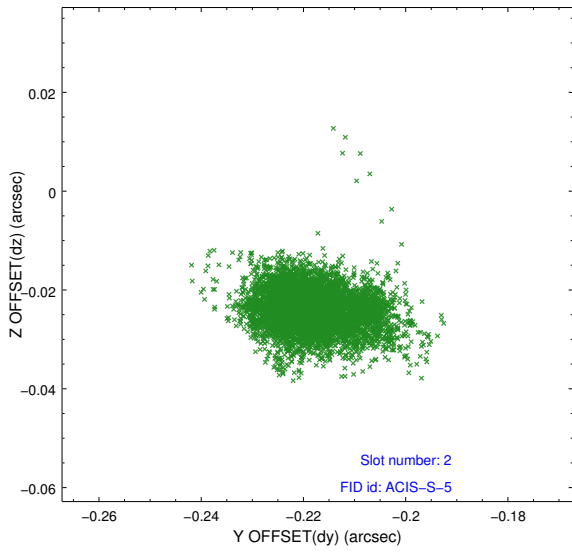
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.117700147033

A.2 Comments

Joint proposal with HST.

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.