

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 9931 - L2 Version 2
Chandra X-Ray Center

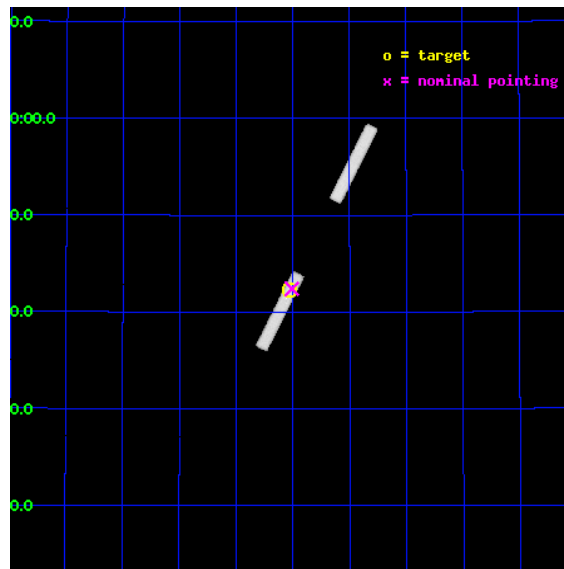
L2 Processing Date : Jun 1 2012

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1 Front

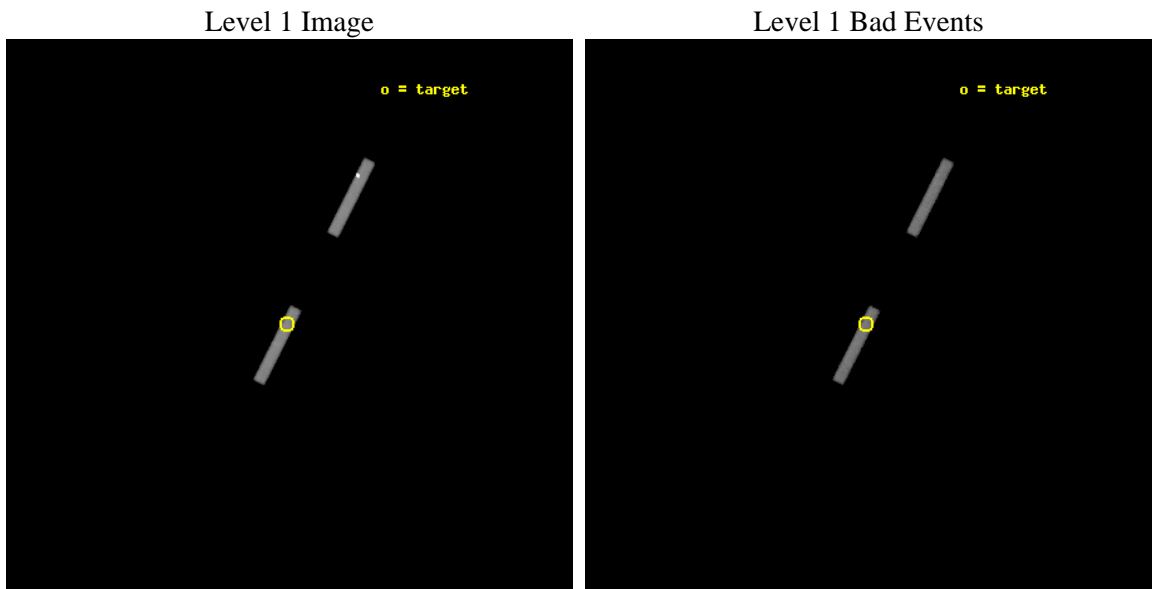
seq_num	200547	Sequence number
obs_id	9931	Observation id
title	CORONAL AND TRANSITION REGION HEATING DUE TO MAGNETIC ACTIVITY ON METAL-POOR DWARF STARS	Proposal title
observer	Dr. Alexander Brown	Principal investigator
object	HD103095	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	178.2575	Observer's specified target RA [deg]
dec_targ	37.704139	Observer's specified target Dec [deg]
ra_nom	178.25225939392	Nominal RA [deg]
dec_nom	37.70667866141	Nominal Dec [deg]
roll_nom	116.82953968914	Nominal Roll [deg]
revision	2	Processing version of data
ontime	35476.0	Sum of GTIs [s]
livetime	32785.006653852	Livetime [s]
ontime5	35476.0	Sum of GTIs [s]
ontime7	35476.0	Sum of GTIs [s]
l2events	63551	Number of level 2 events



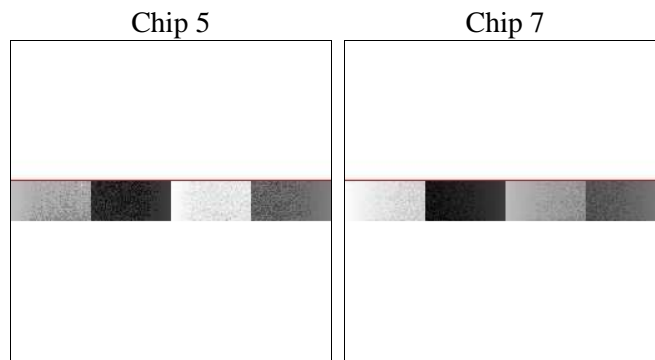
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35300.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	35476.0	Sum of GTIs [s]
caldbver	4.4.9	 	ontime5	35476.0	Sum of GTIs [s]
date	2012-06-01T10:27:27	Date and time of file creation	ontime7	35476.0	Sum of GTIs [s]
revision	2	Processing version of data	l1events	207420	Number of level 1 events

2.1.4 Events

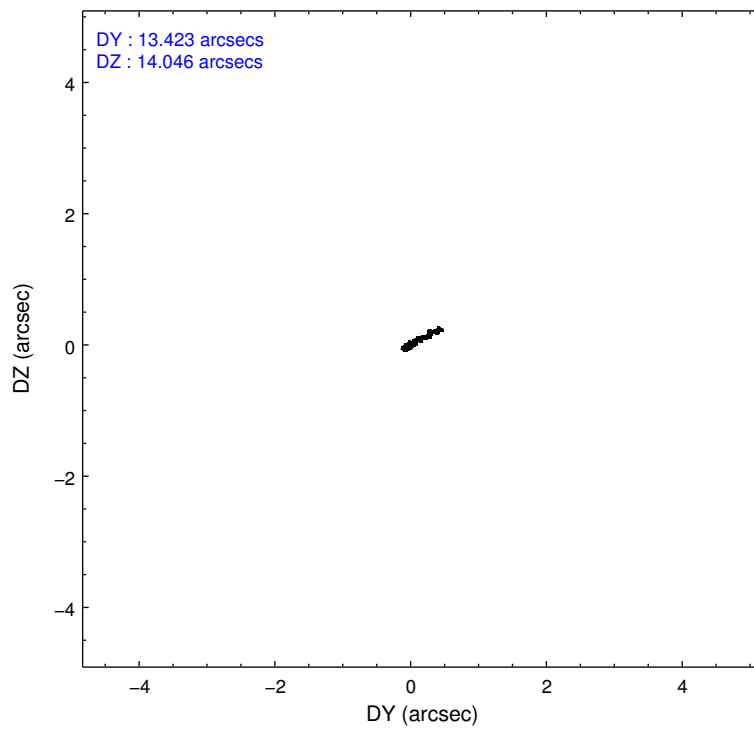
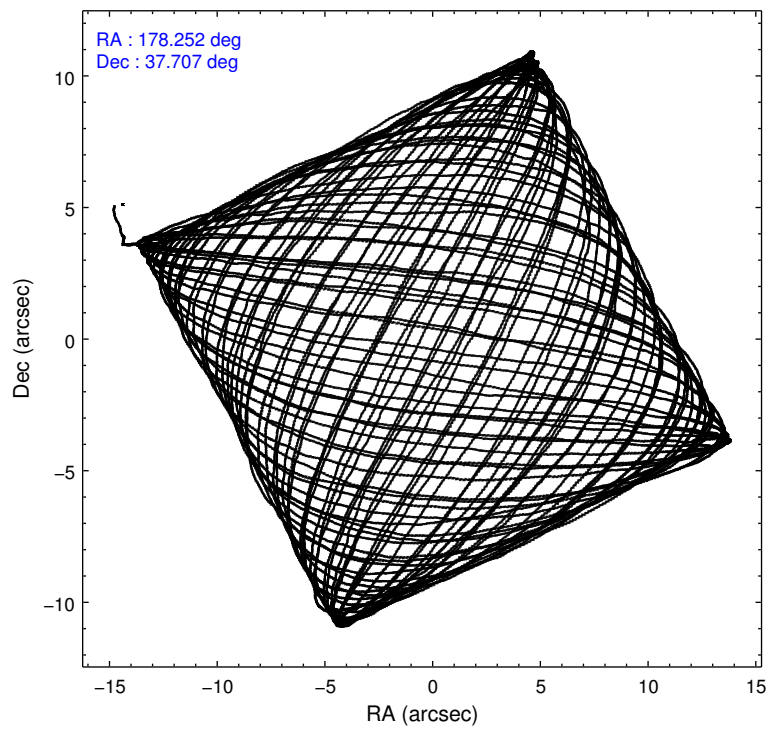
	ccd 5	ccd 7
level 1 events	138741	68679
rejected events	39672	37861
rejected %	28%	55%

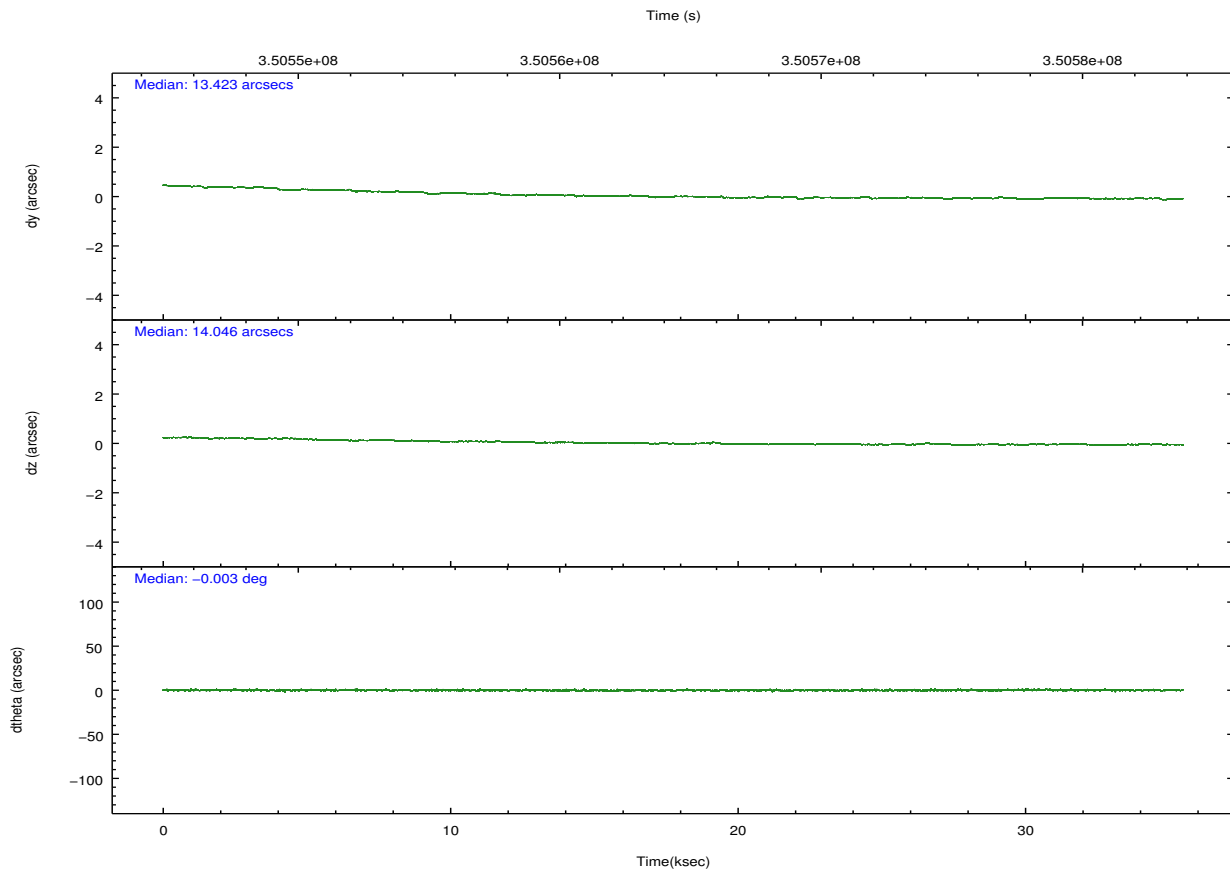
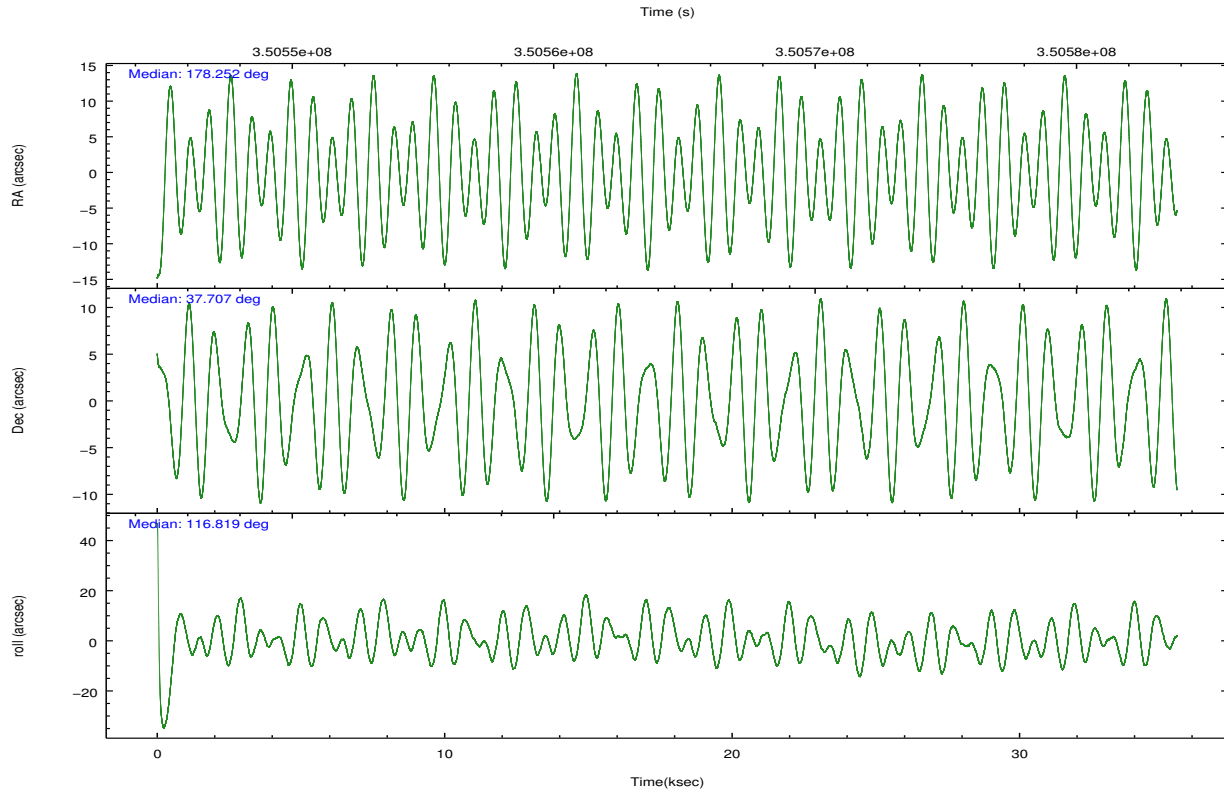
	ccd 5	ccd 7
grade 0 events	52653	3196
	37%	4%
grade 1 events	363	85
	0%	0%
grade 2 events	22713	6273
	16%	9%
grade 3 events	2643	3486
	1%	5%
grade 4 events	5105	3698
	3%	5%
grade 5 events	6070	6394
	4%	9%
grade 6 events	17586	14637
	12%	21%
grade 7 events	31608	30910
	22%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-57	ACIS-57	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	178.281460	178.2522593939171	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	37.692024	37.7066786614099	Subarray start row	449	449
[deg] Pointing Roll	116.655028	116.8295396891374	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.5
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	350546766.184000	350545829.39056			
Observation start date	2009-02-09T06:05:00	2009-02-09T05:50:29			
[s] Observation end time (MET)	350582066.184000	350582767.82989			
Observation end date	2009-02-09T15:53:20	2009-02-09T16:06:07			
Read mode	TIMED	TIMED			

2.3 Aspect



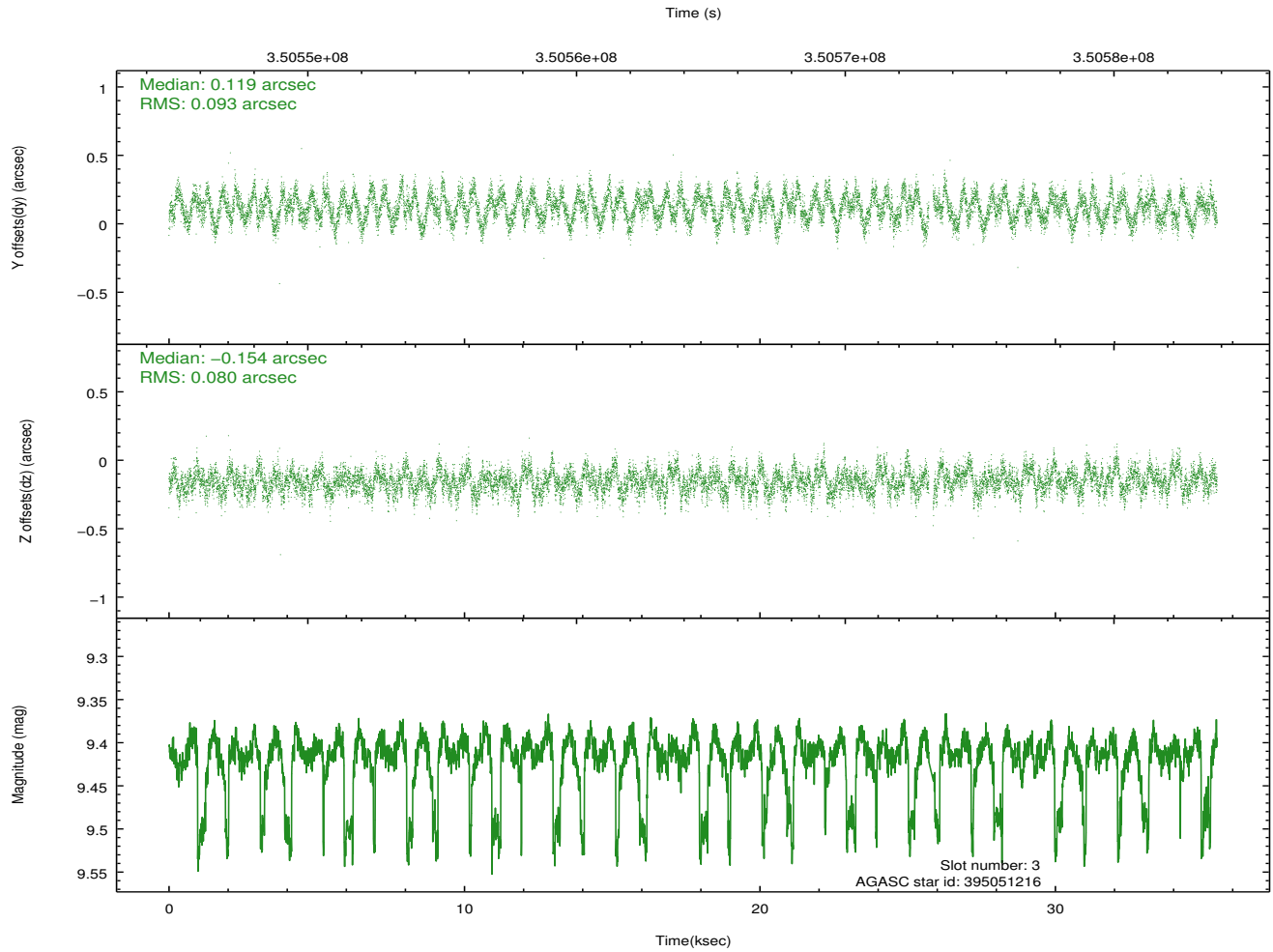
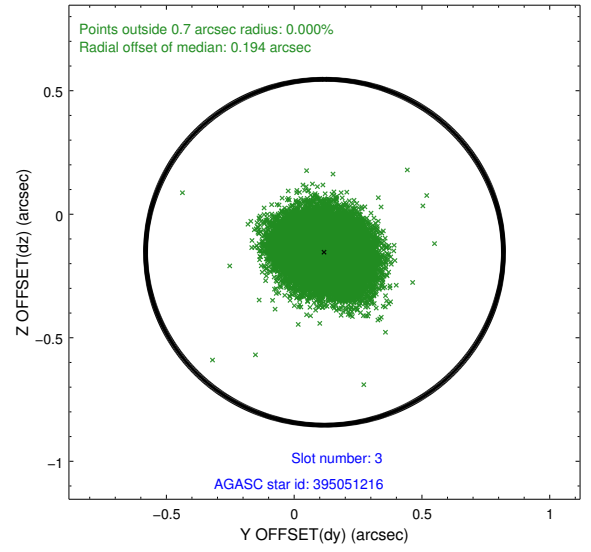
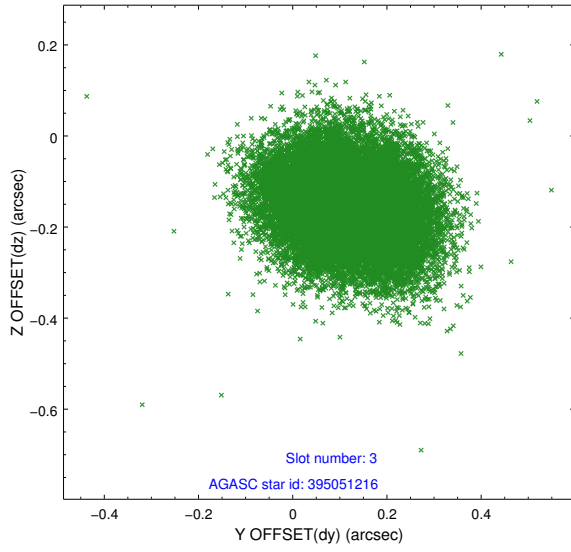


Slot Statistics

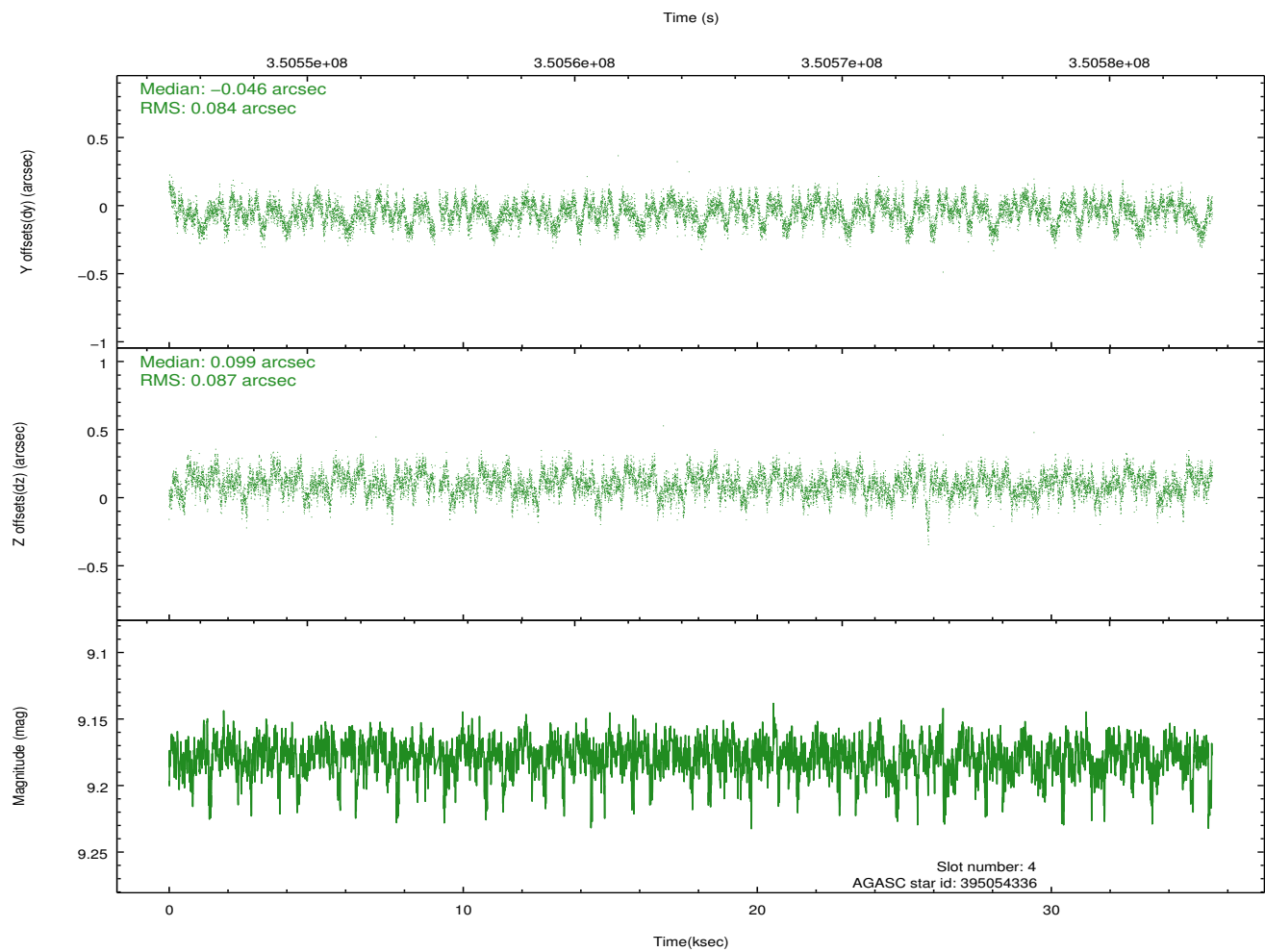
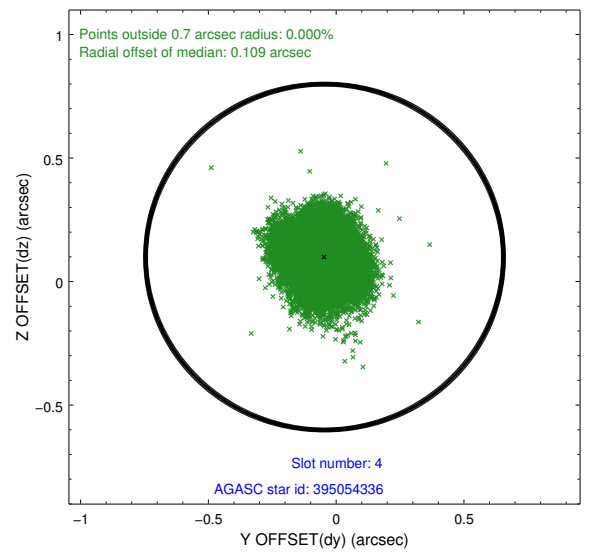
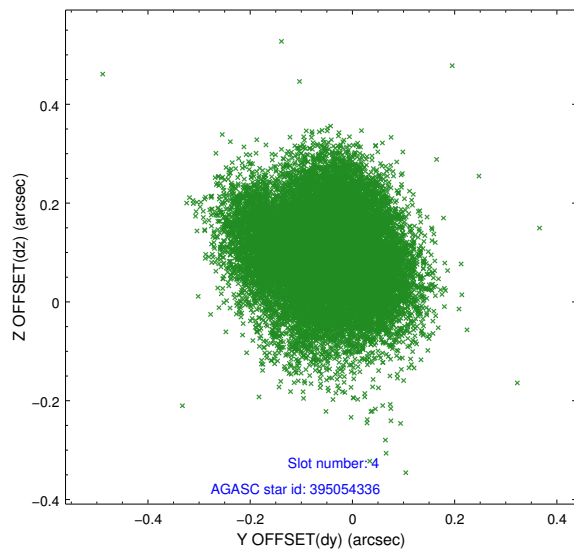
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	6.94	8653	-0.099	-0.061	0.006	0.014	0.000000	0.000000	-766.54	-1735.49
1	FID	ACIS-S-4	7.02	8651	0.078	0.064	0.006	0.014	0.000000	0.000000	2146.93	173.04
2	BAD	ACIS-S-5	7.05	6277	-0.043	0.013	0.016	0.026	0.000000	0.000000	-1819.21	166.73
3	GUIDE	395051216	9.41	17217	0.119	-0.154	0.134	0.204	178.265201	37.573034	-361.68	233.42
4	GUIDE	395054336	9.18	17226	-0.046	0.099	0.132	0.202	178.519776	37.952105	534.52	-1023.90
5	BAD	395055600	6.43	4	-121.032	-16.811	0.018	0.218	178.233449	37.731935	192.88	-223.25
6	GUIDE	395060504	10.32	17191	-0.113	0.114	0.273	0.422	178.780406	38.320520	1393.83	-2275.60
7	GUIDE	331092000	9.96	17209	0.051	-0.076	0.211	0.317	177.868260	36.861894	-2134.75	2402.68

2.4 Star Slots

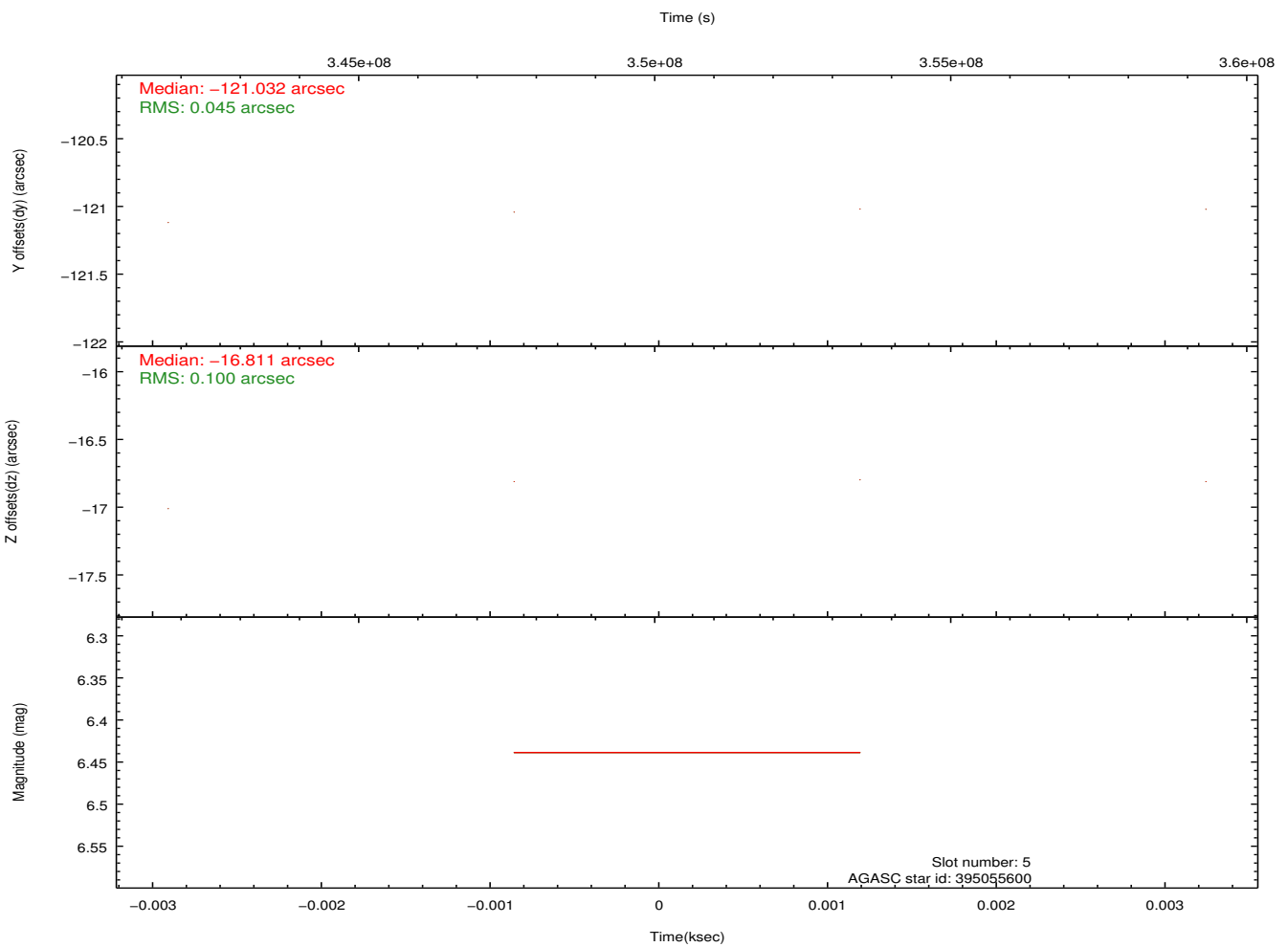
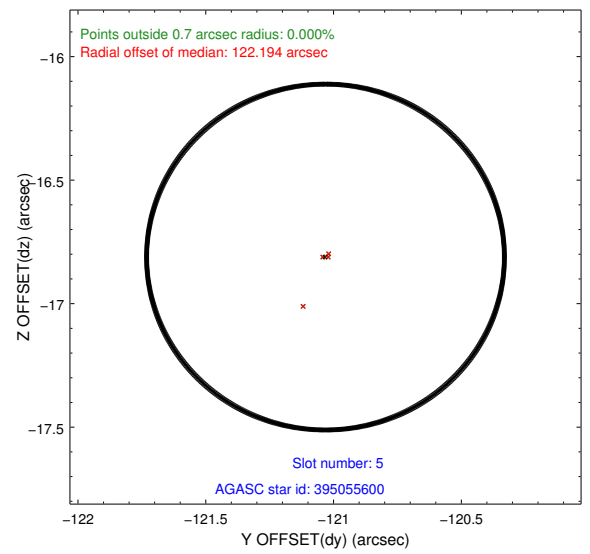
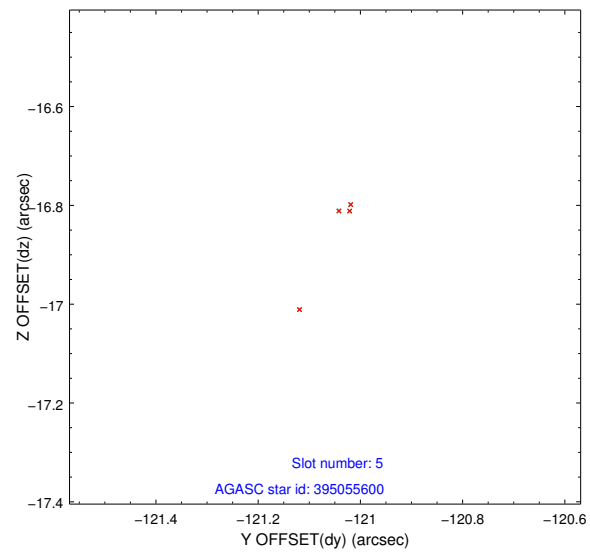
2.4.1 Slot 3



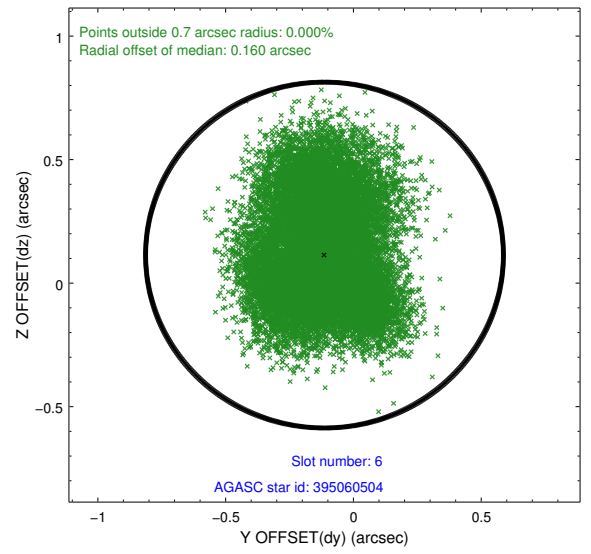
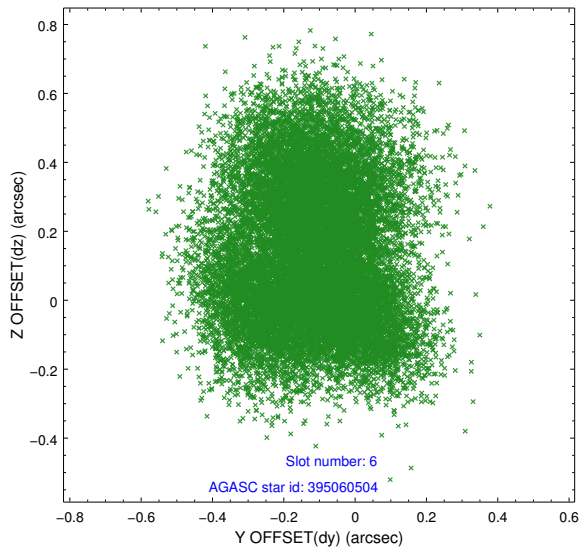
2.4.2 Slot 4



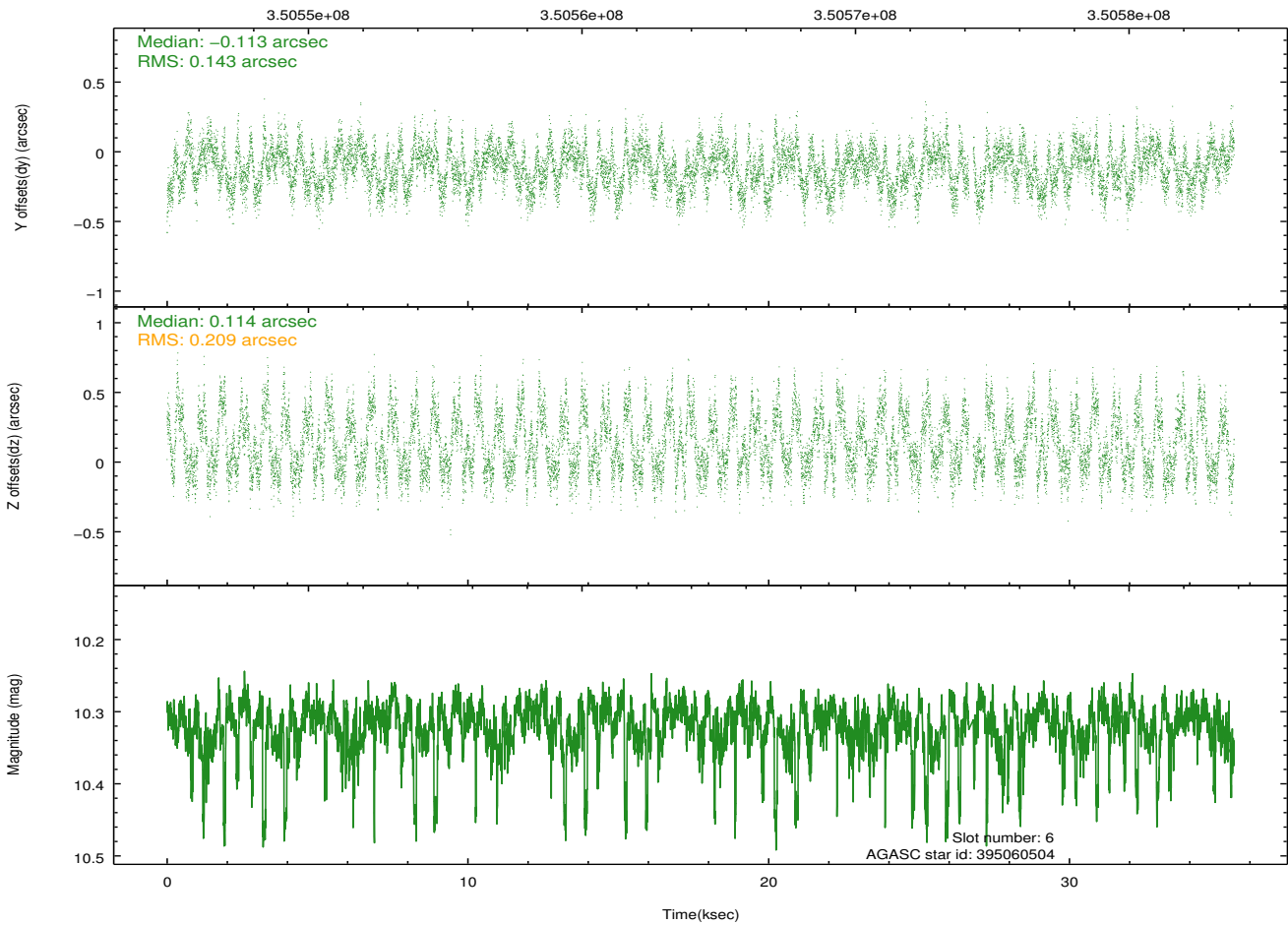
2.4.3 Slot 5



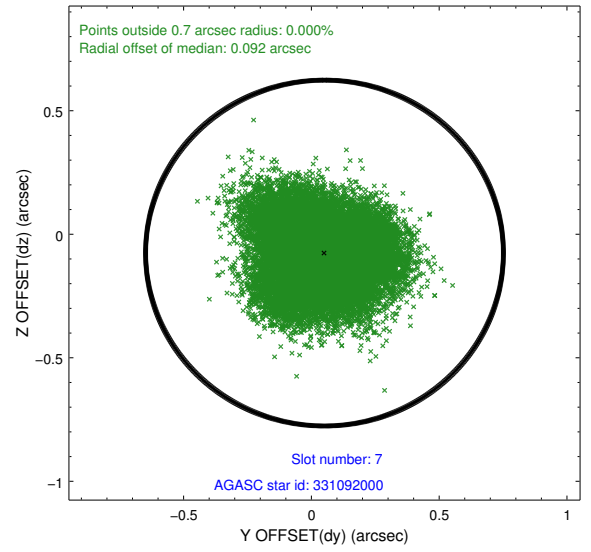
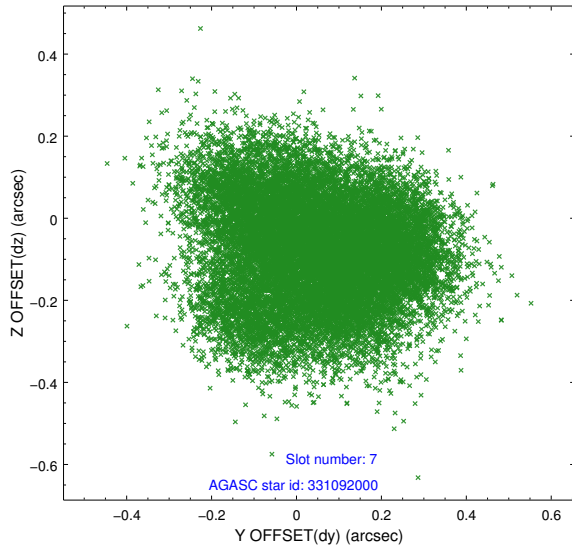
2.4.4 Slot 6



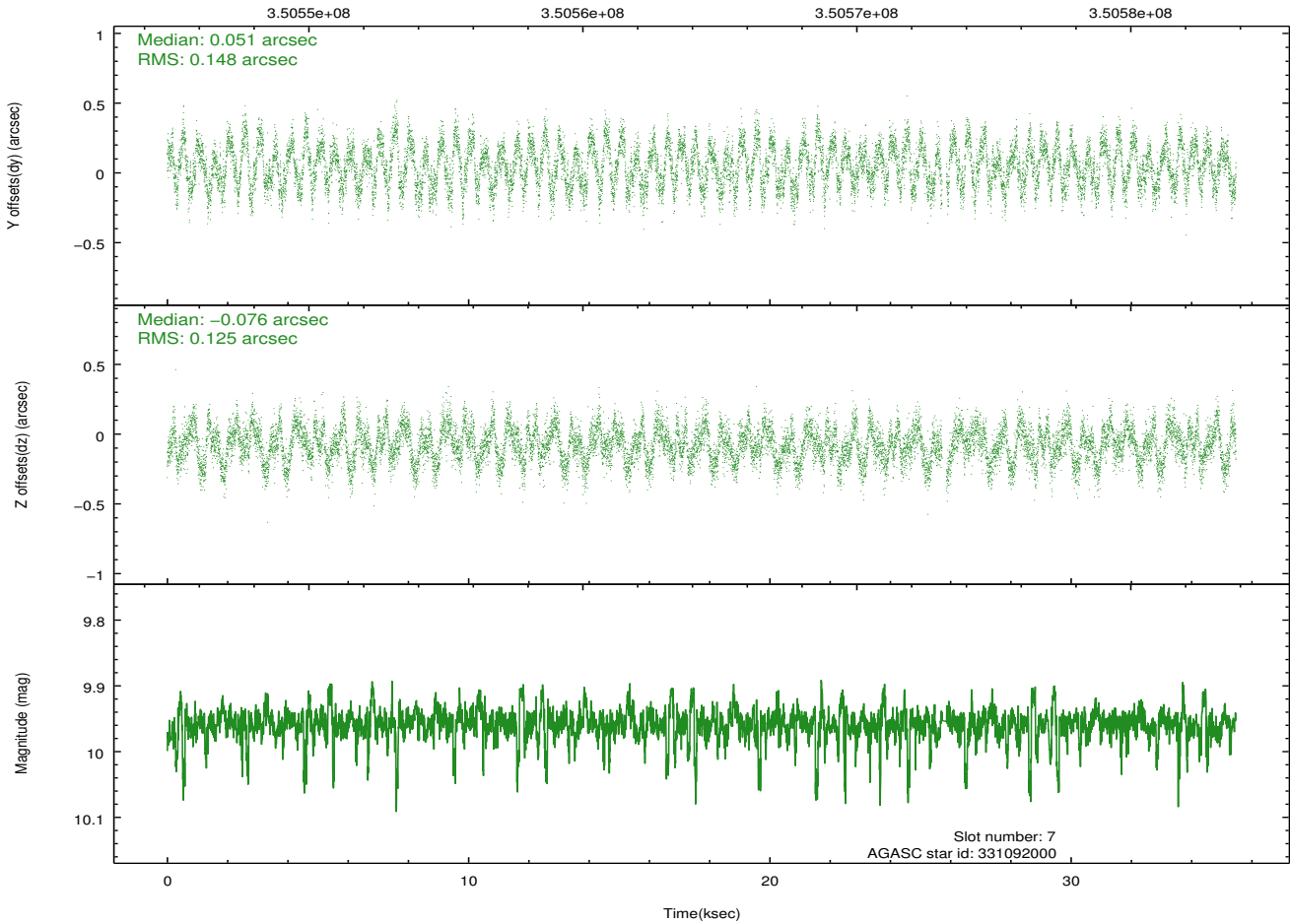
Time (s)



2.4.5 Slot 7

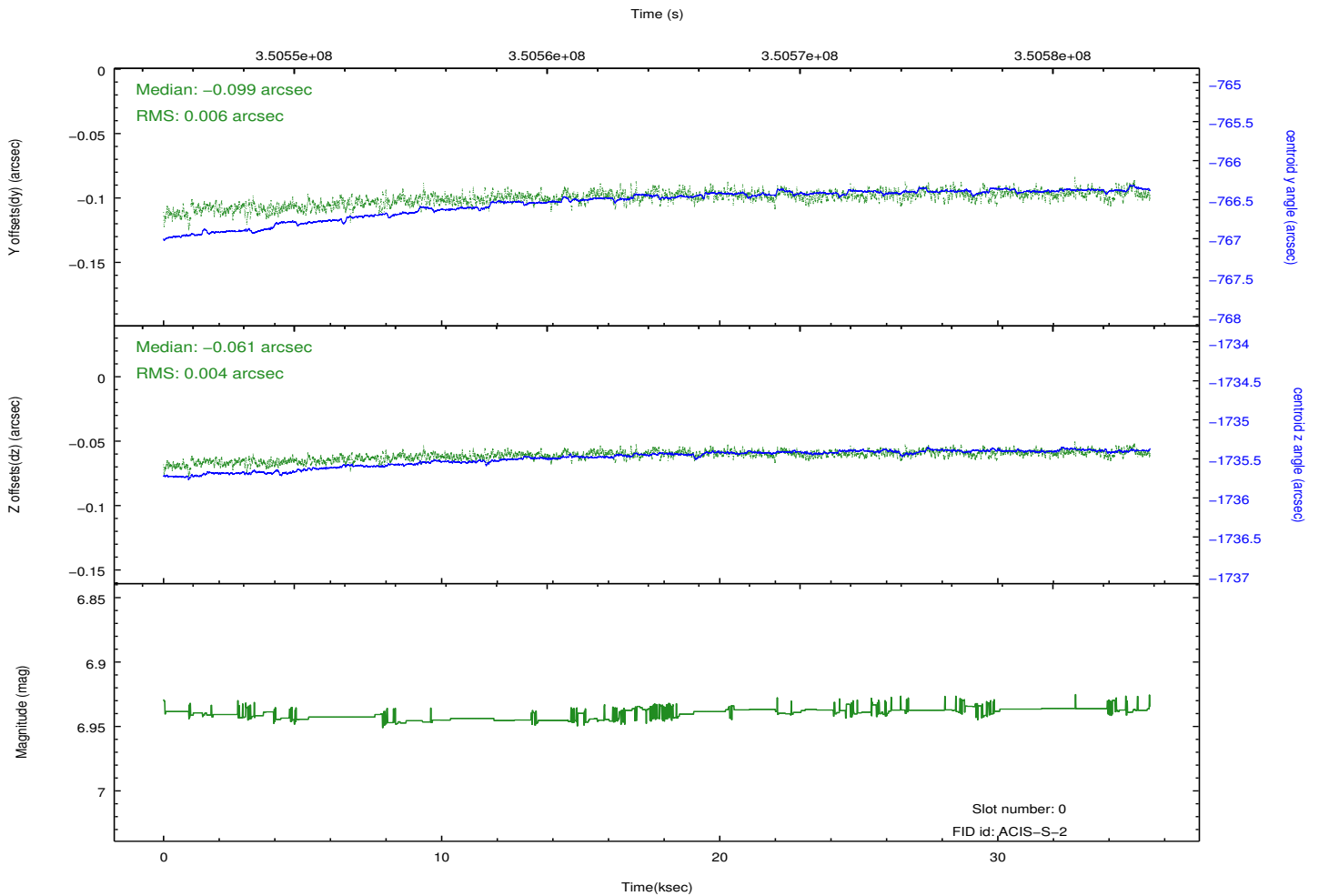
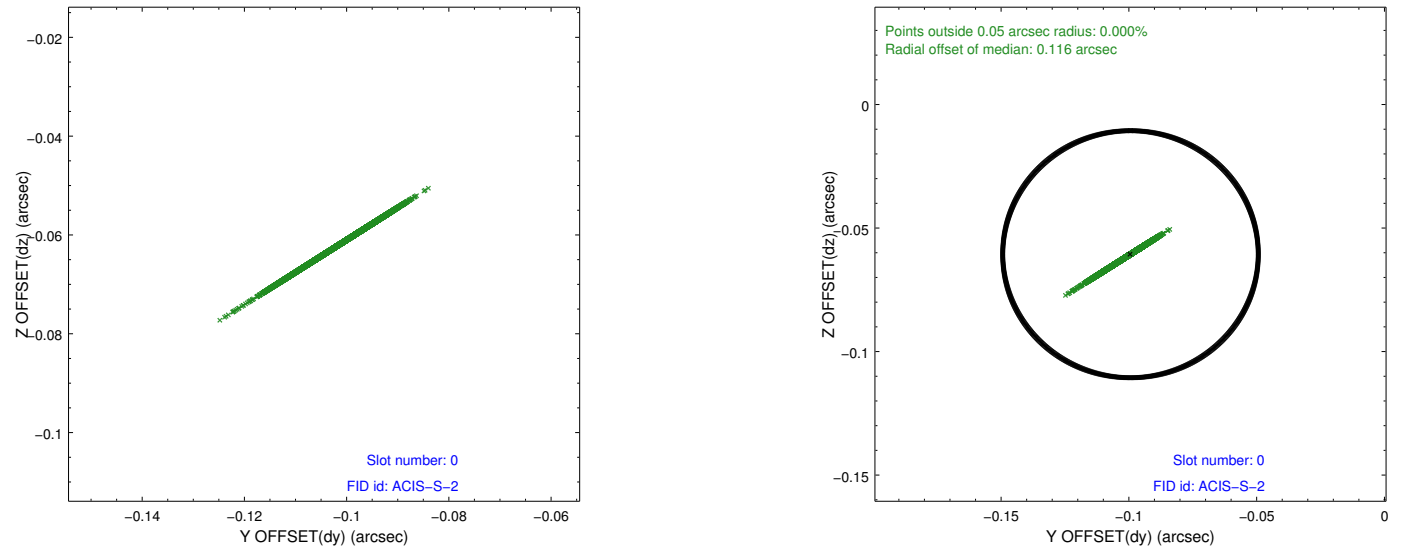


Time (s)

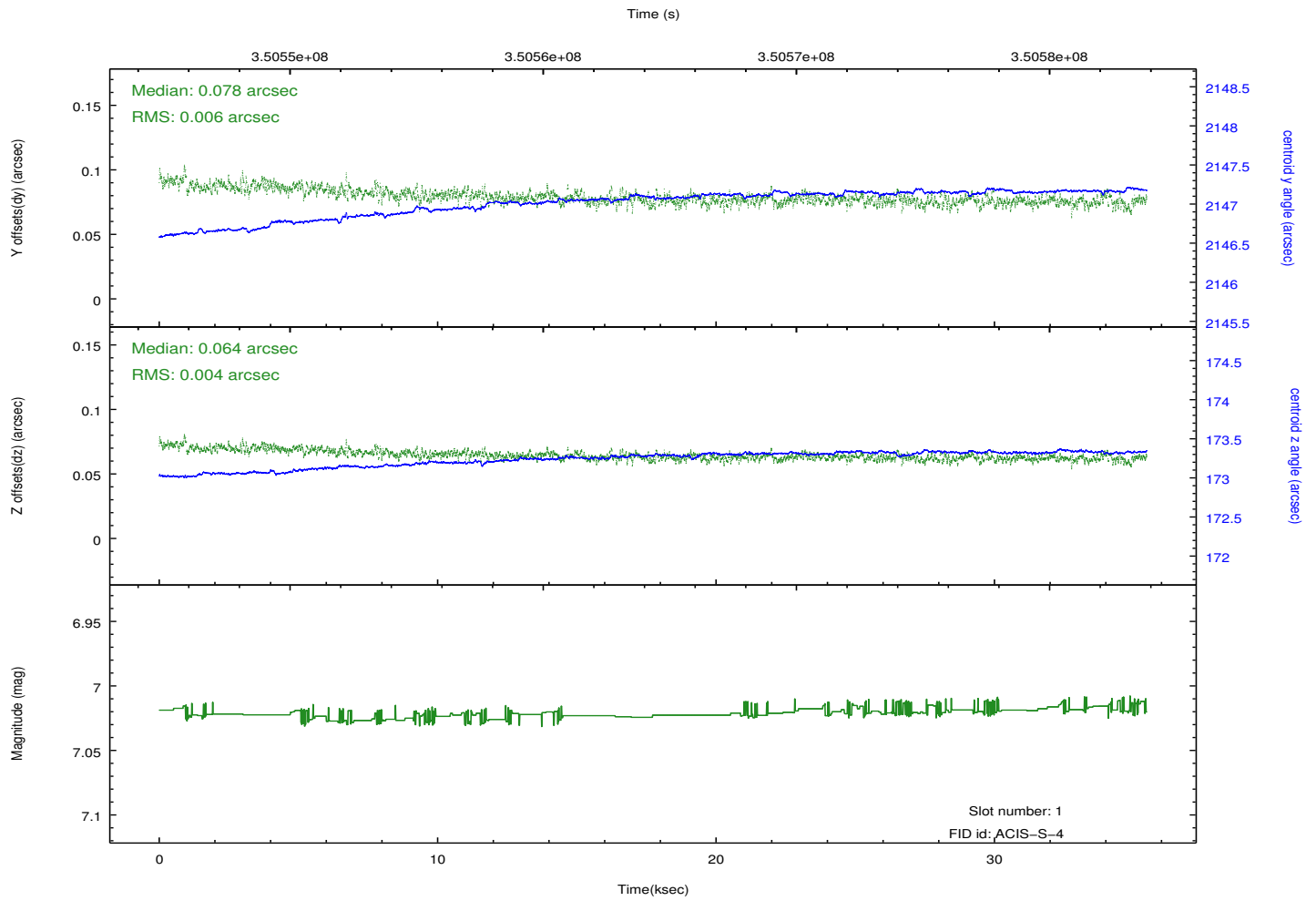
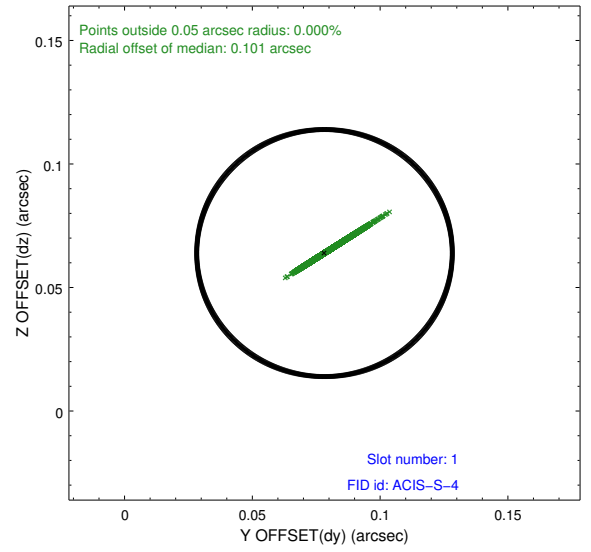
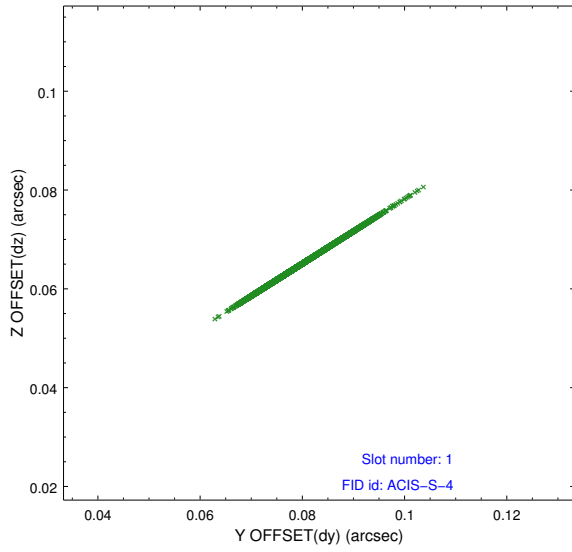


2.5 FID Slots

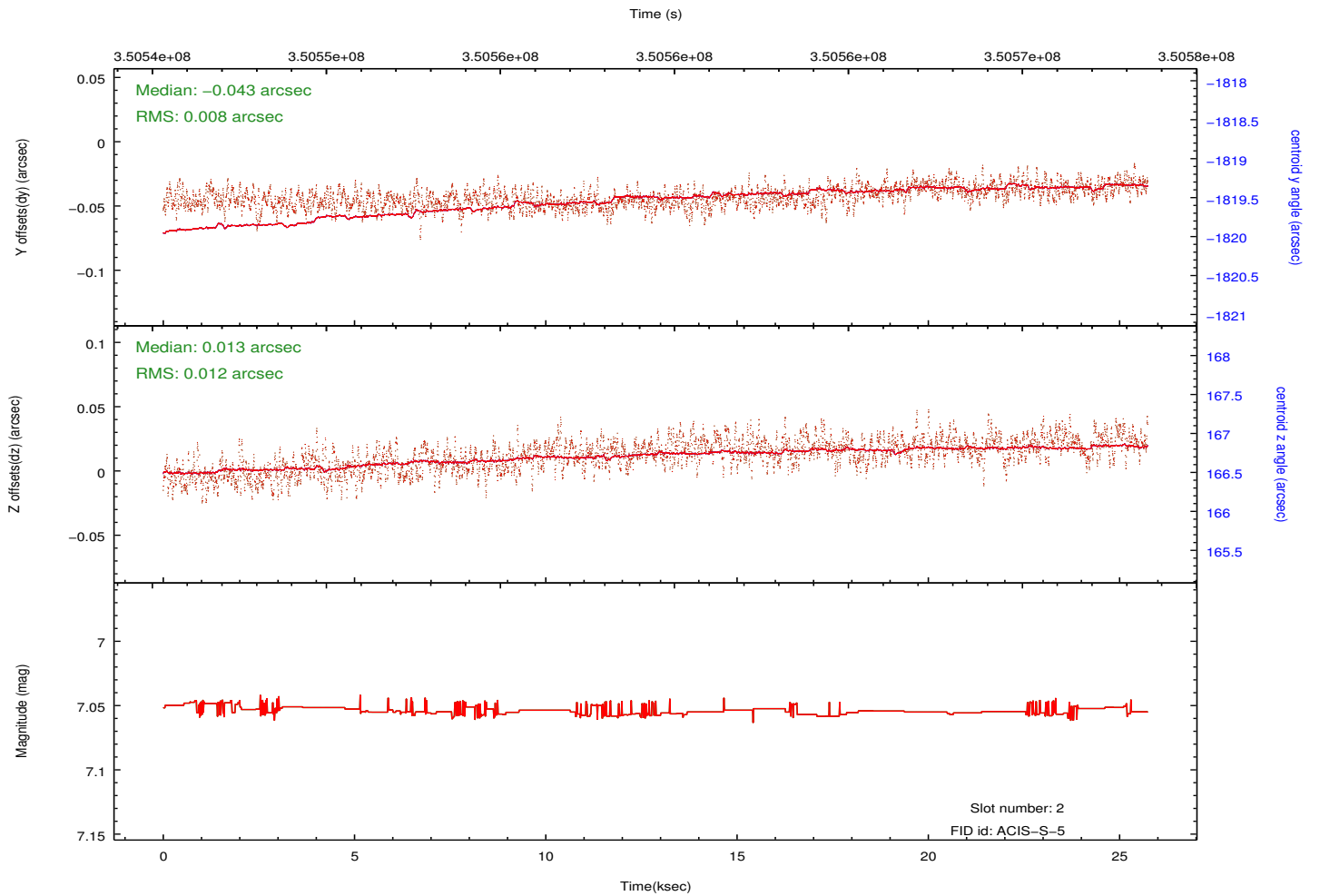
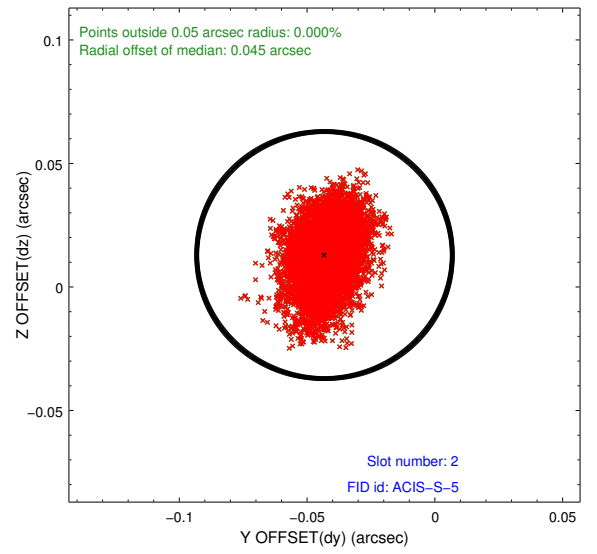
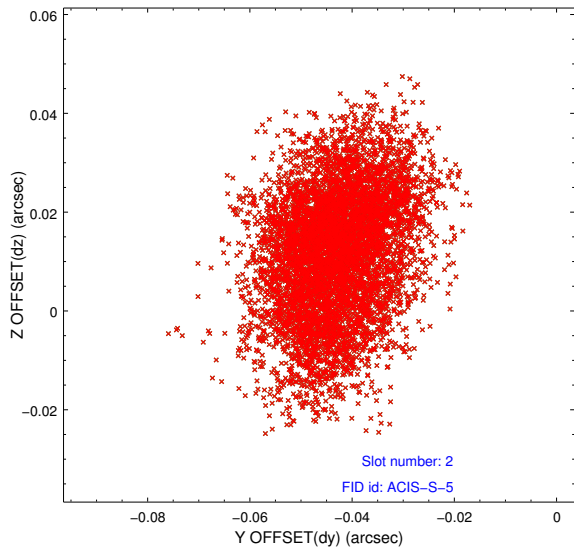
2.5.1 Slot 0



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)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.476

A.2 Comments

Joint Proposal: HST

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The fid light in slot 2 and the guide star in slot 5 were not well tracked during this observation. However, the aspect solution using the available 2 fid lights and 4 guide stars meets requirements for distribution.