

V&V Reference Report

L2 ASCDS Version : 10

Observation 15436 - L2 Version 2
Chandra X-Ray Center

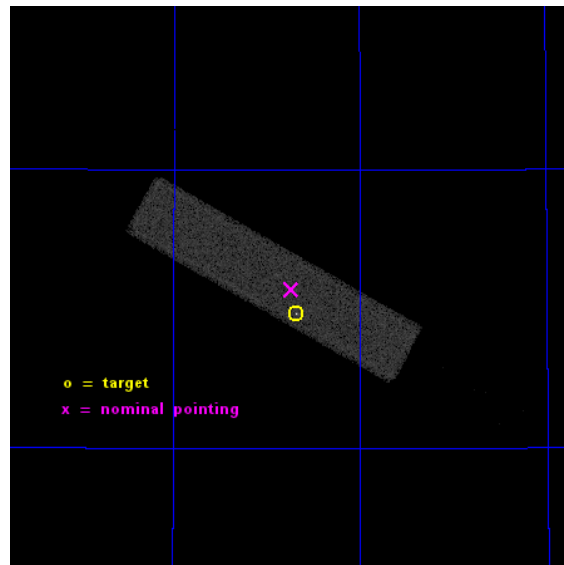
L2 Processing Date : Dec 6 2014

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1 Front

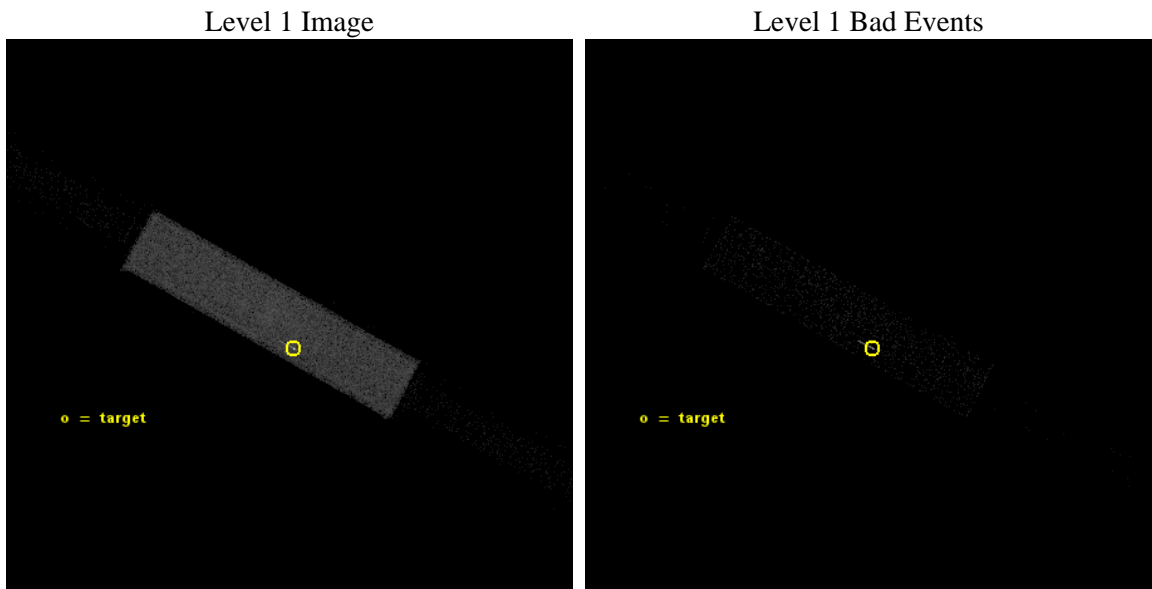
seq_num	291115	Sequence number
obs_id	15436	Observation id
title	AO-14 Calibration Observations to Monitor the Spatial Variations in the HRC-S Gain	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	ArLac	Source name
ra_targ	332.17	Observer's specified target RA [deg]
dec_targ	45.742306	Observer's specified target Dec [deg]
ra_nom	332.1825991643	Nominal RA [deg]
dec_nom	45.785748597426	Nominal Dec [deg]
roll_nom	208.65691115159	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1151.075062871	[s]
livetime	1144.4720053228	Ontime multiplied by DTCOR
l2events	46713	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	1151.075062871	[s]
caldsver	4.6.4	 	l1events	75339	Number of level 1 events
date	2014-12-06T15:59:33	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

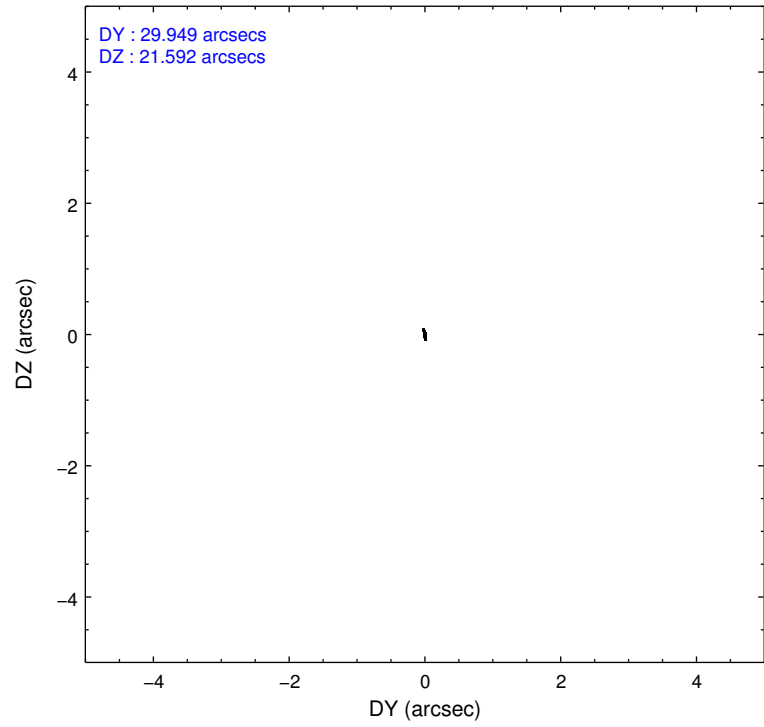
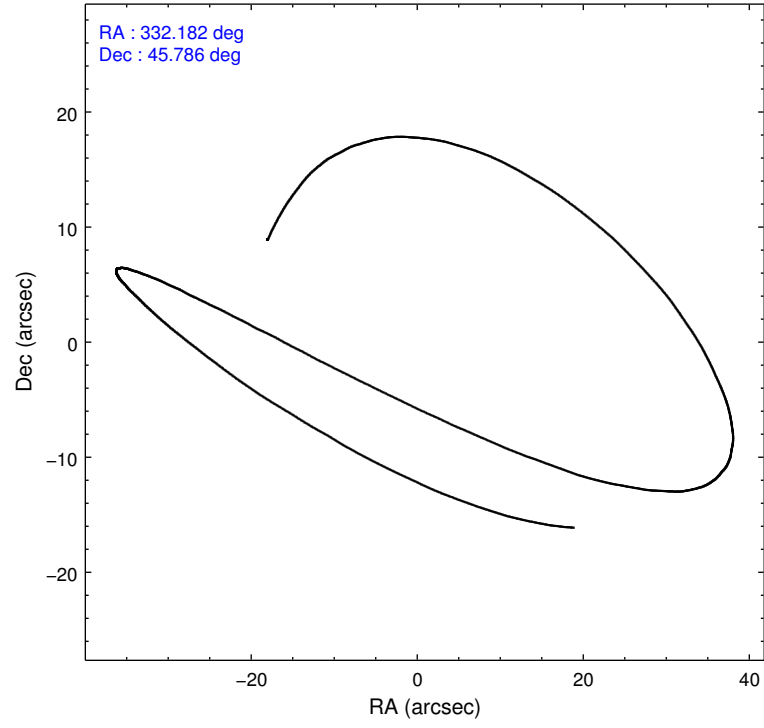
Level 1 Events

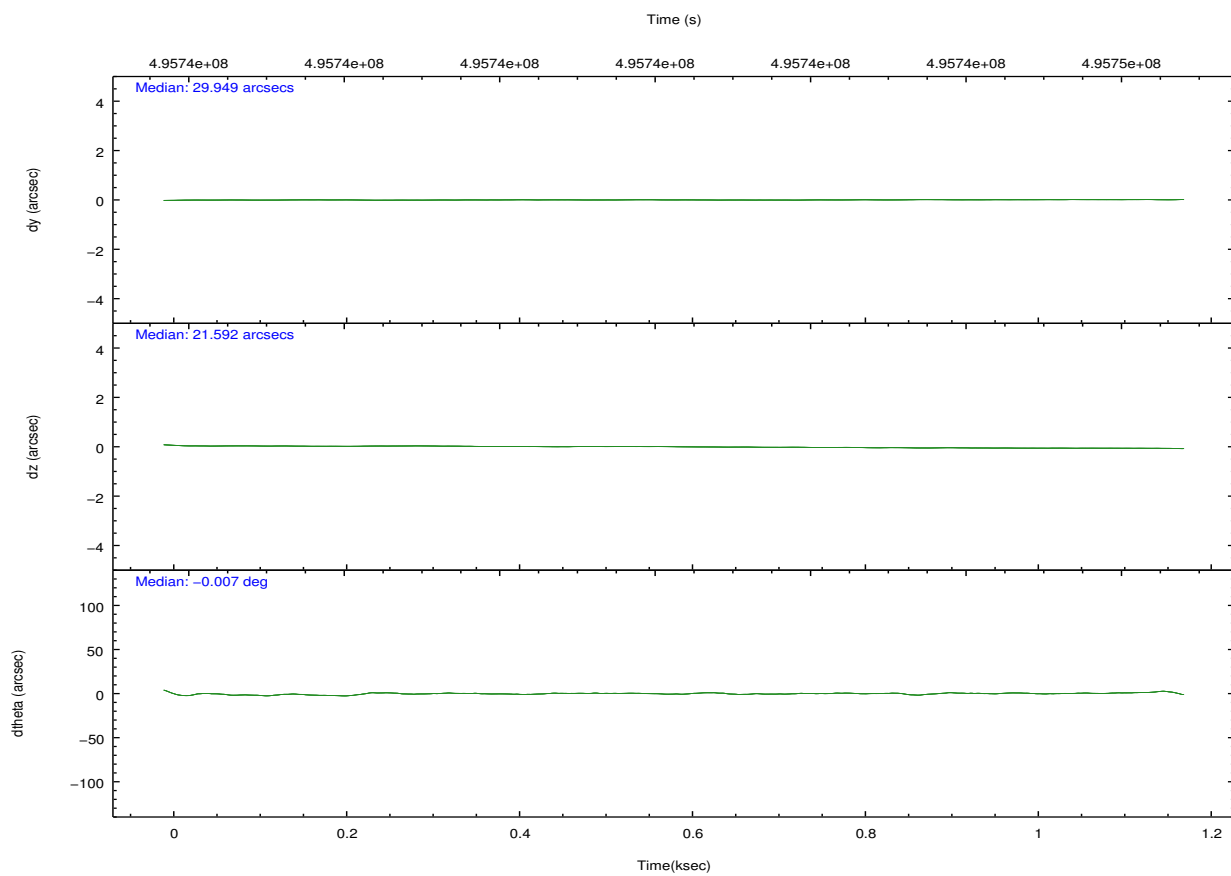
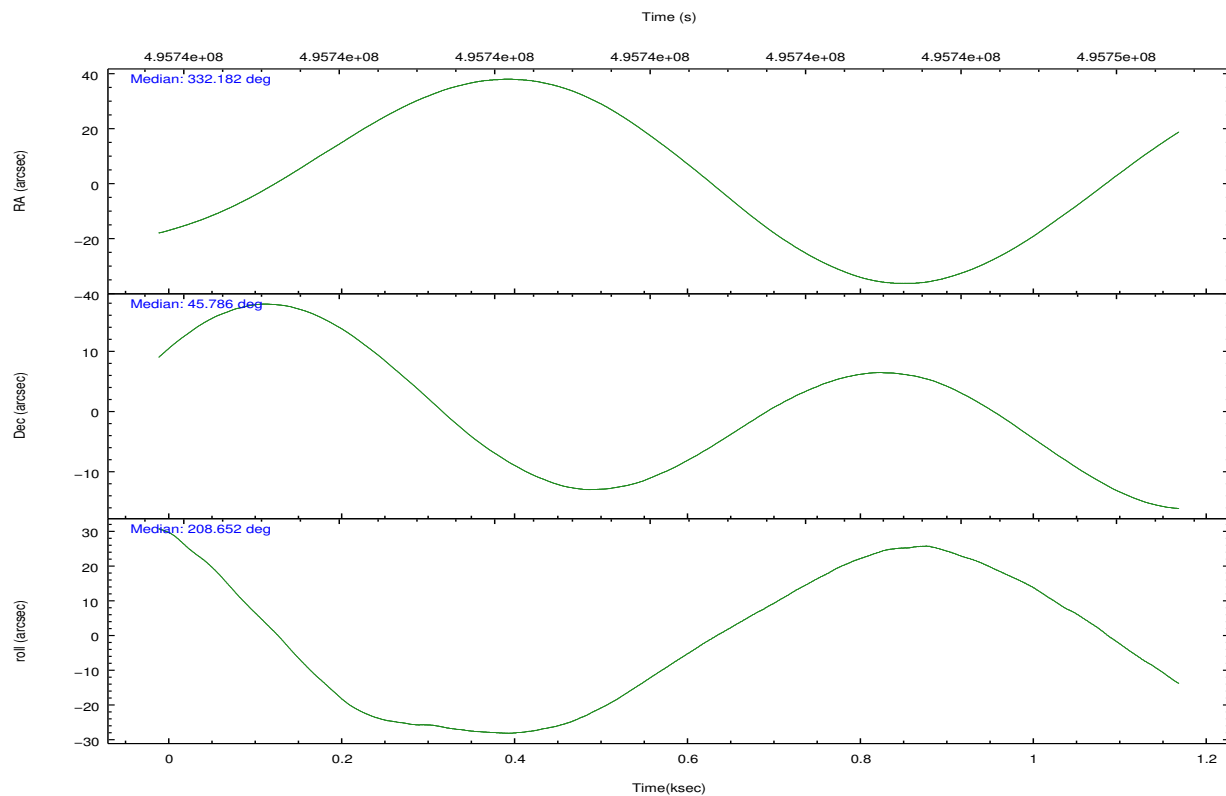
	segment 1	segment 2	segment 3
level 1 events	622	74105	612
rejected events	622	17115	600
rejected %	100%	23%	98%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	332.202687	332.1825991643036			
[deg] Pointing Dec	45.810537	45.78574859742601			
[deg] Pointing Roll	208.575112	208.6569111515912			
[mm] SIM focus pos	-1.533336	-1.526339935833849			
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	495744200.184000	495743825.2288			
Observation start date	2013-09-16T18:42:13	2013-09-16T18:37:05			
[s] Observation end time (MET)	495745200.184000	495745334.54138			
Observation end date	2013-09-16T18:58:53	2013-09-16T19:02:14			

2.3 Aspect



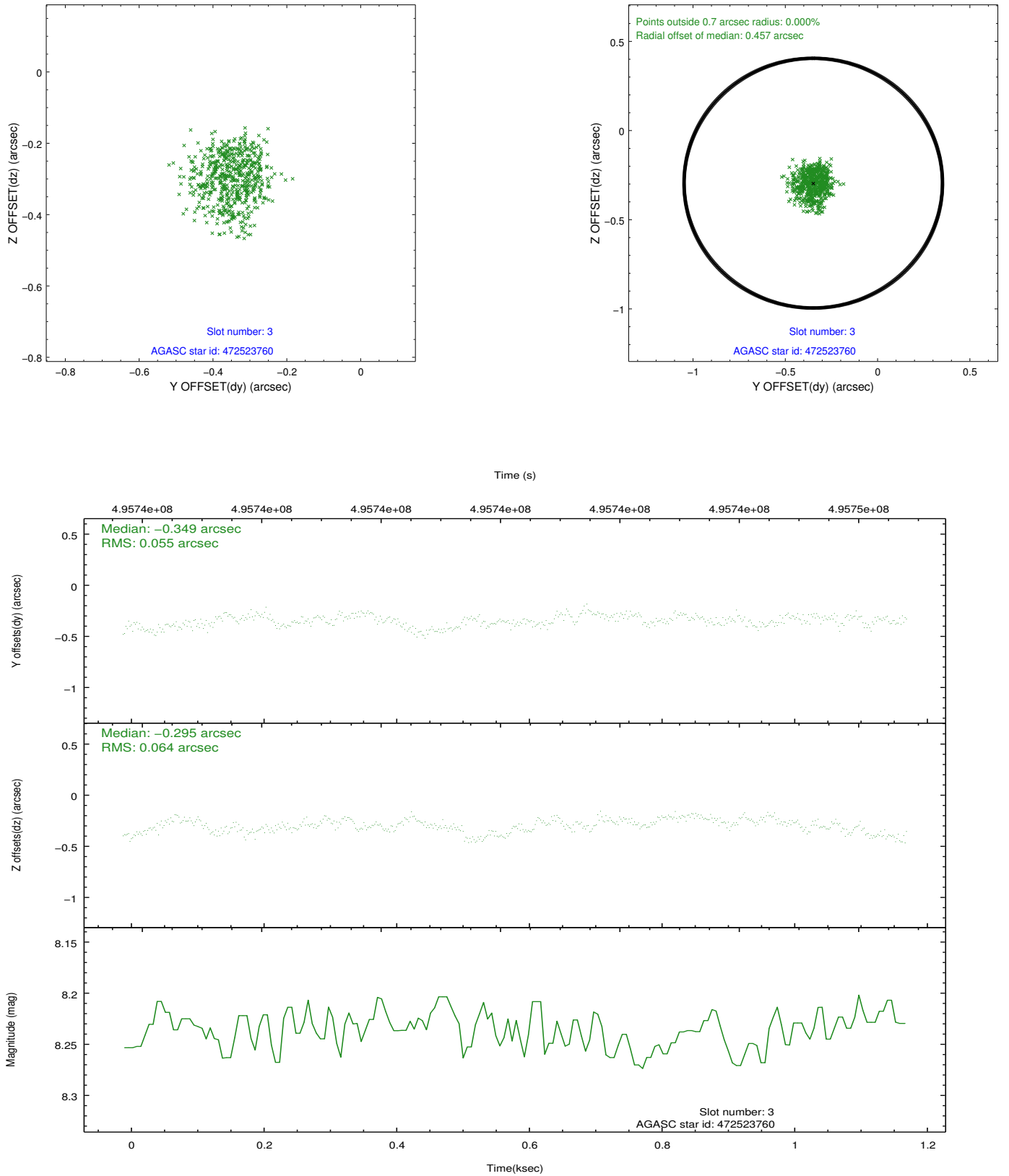


Slot Statistics

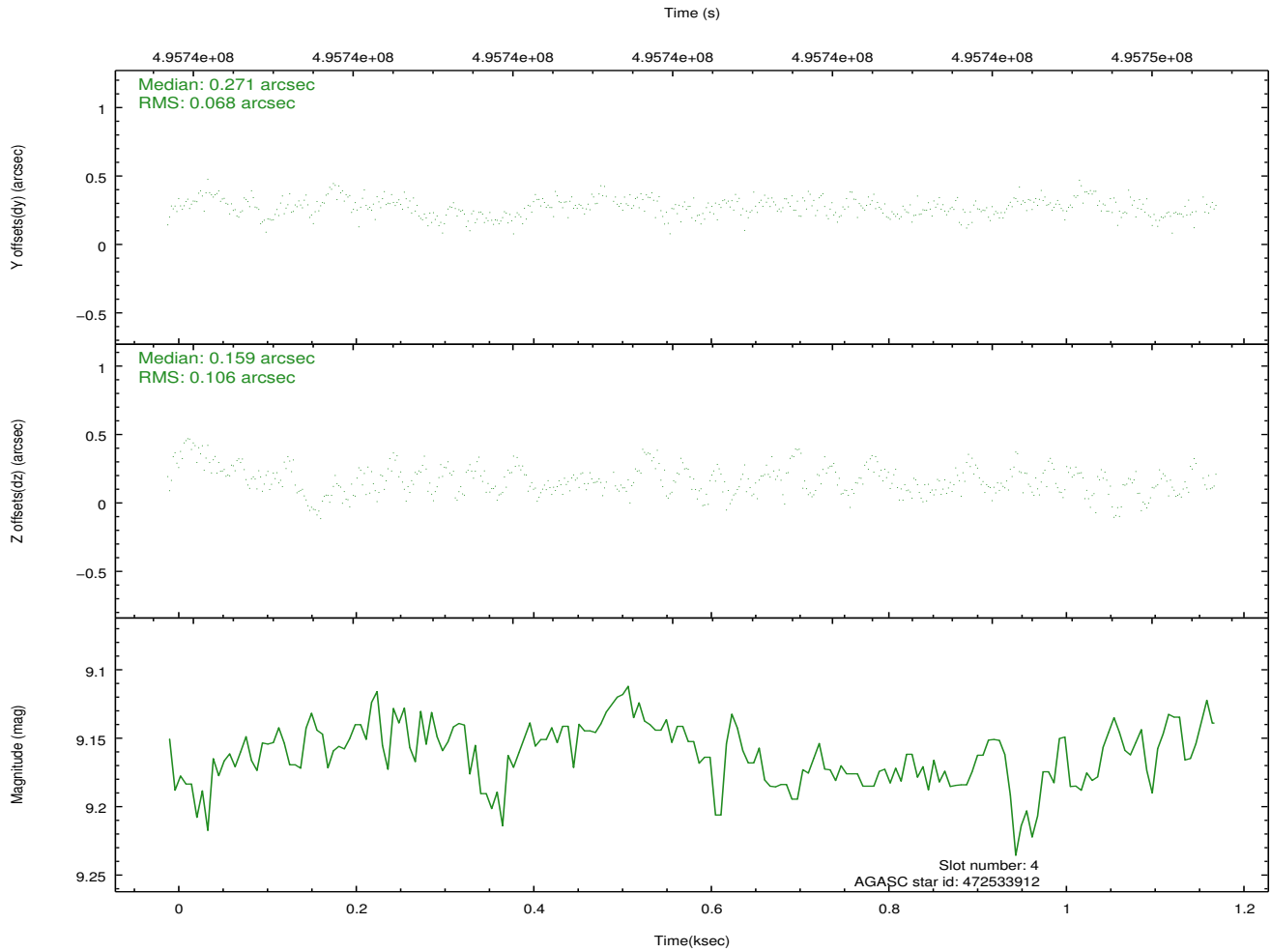
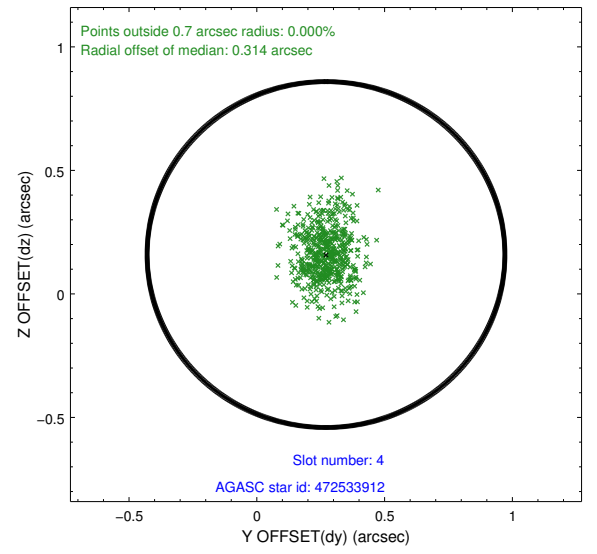
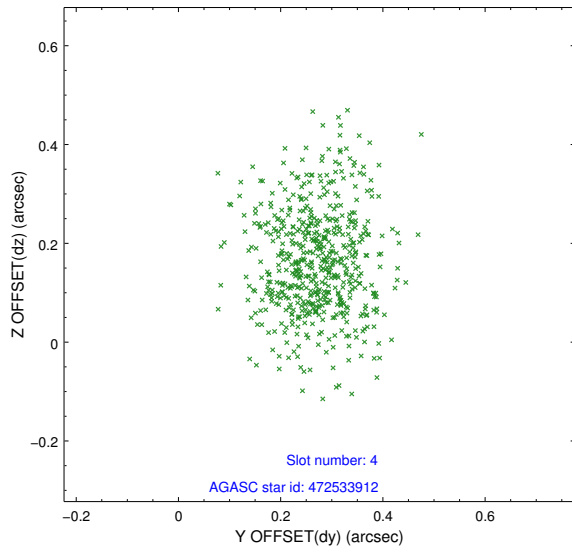
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-2	7.01	288	0.191	-0.063	0.009	0.020	0.000000	0.000000	1215.06	-463.15
1	FID		HRC-S-3	7.04	289	-0.144	-0.075	0.007	0.011	0.000000	0.000000	-1183.51	557.25
2	FID		HRC-S-4	7.00	288	0.357	-0.157	0.010	0.023	0.000000	0.000000	1209.63	563.42
3	GUIDE	used	472523760	8.24	577	-0.349	-0.295	0.093	0.143	331.645363	45.403260	1936.10	611.68
4	GUIDE	used	472533912	9.16	571	0.271	0.159	0.130	0.222	331.791136	46.368695	-60.50	-2252.19
5	GUIDE	used	472655152	9.41	571	-0.018	-0.247	0.178	0.276	332.504239	45.862991	-754.93	192.73
6	GUIDE	used	472665256	9.01	577	0.245	0.172	0.123	0.199	332.808125	46.195041	-1990.50	-496.40
7	GUIDE	used	472535576	7.87	576	-0.154	0.210	0.103	0.165	331.438373	46.291802	833.53	-2437.18

2.4 Star Slots

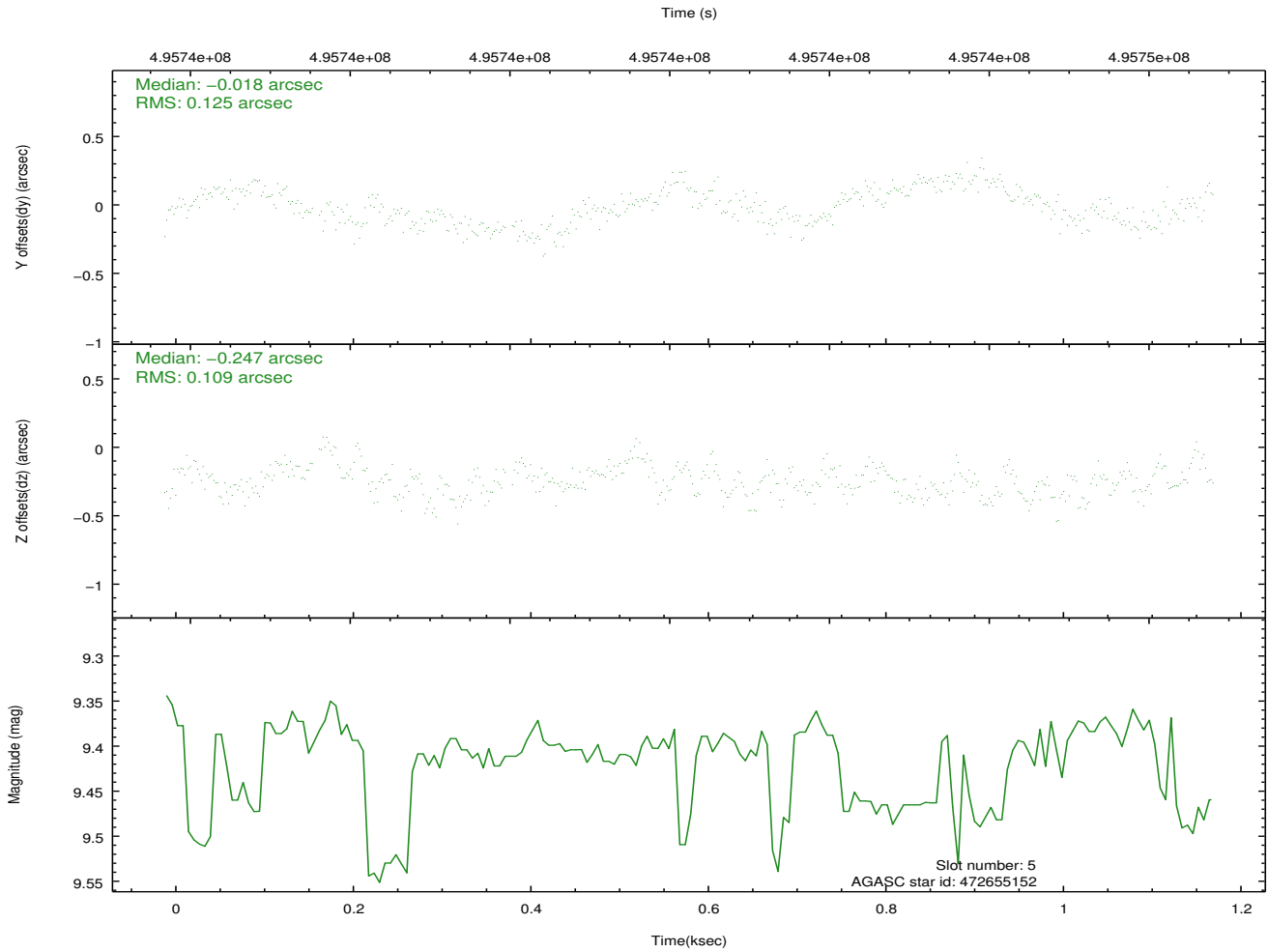
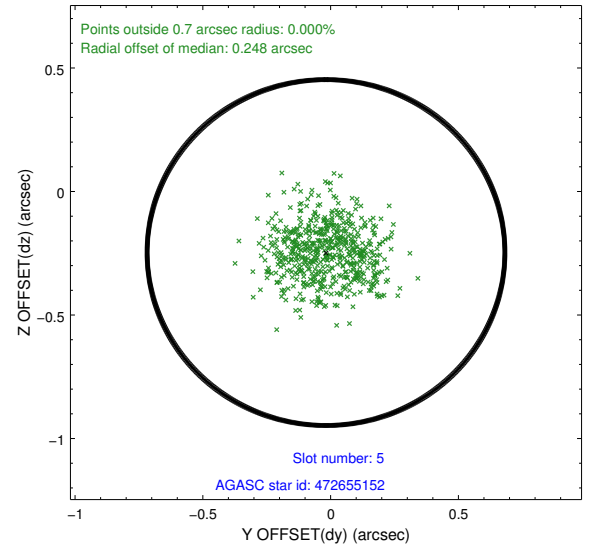
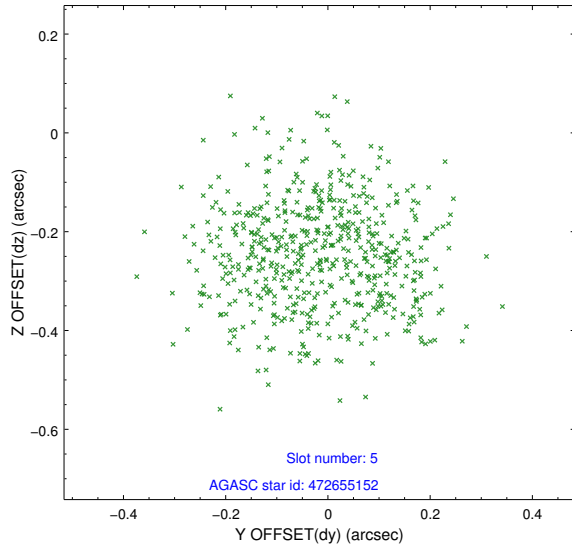
2.4.1 Slot 3



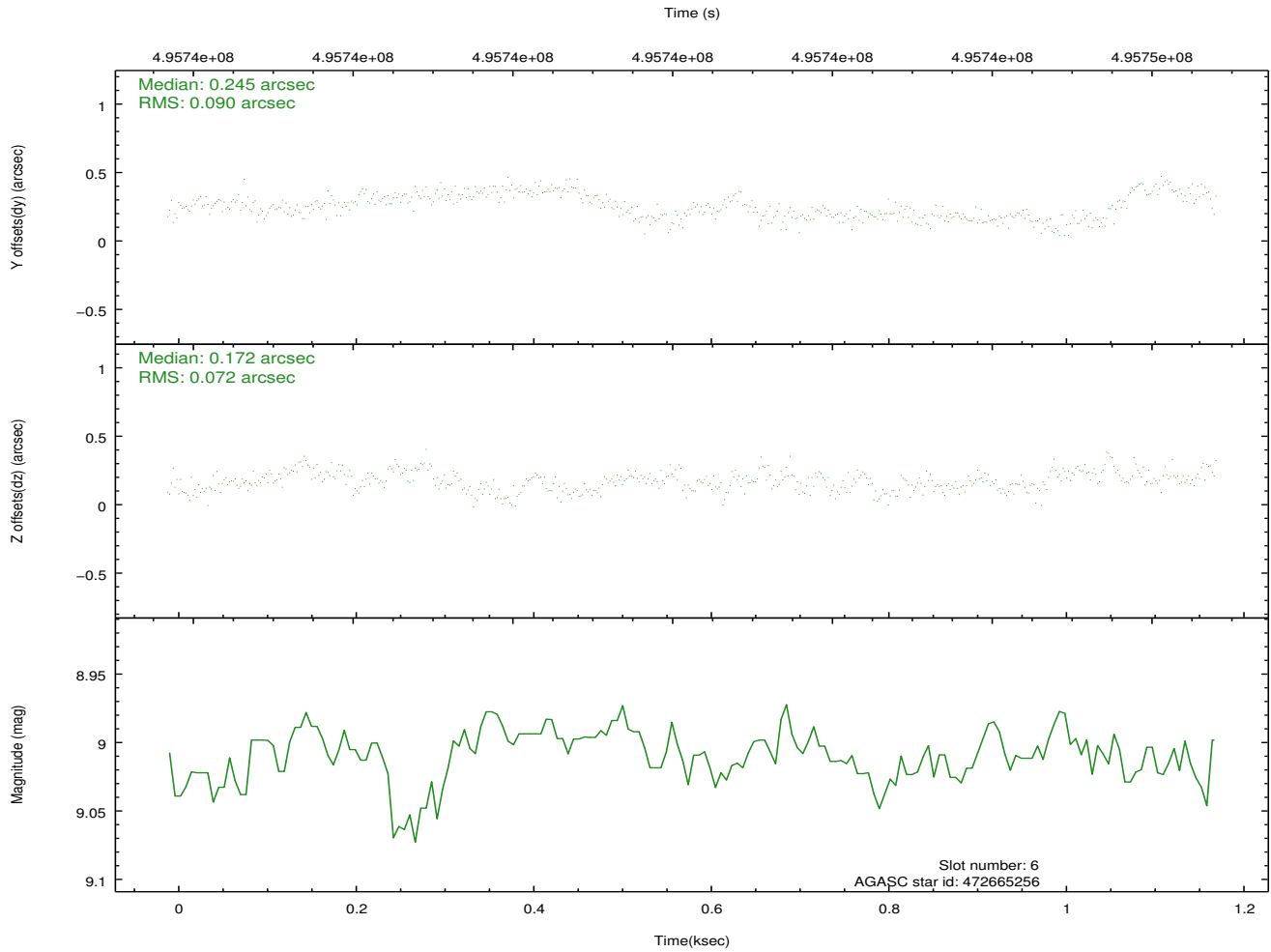
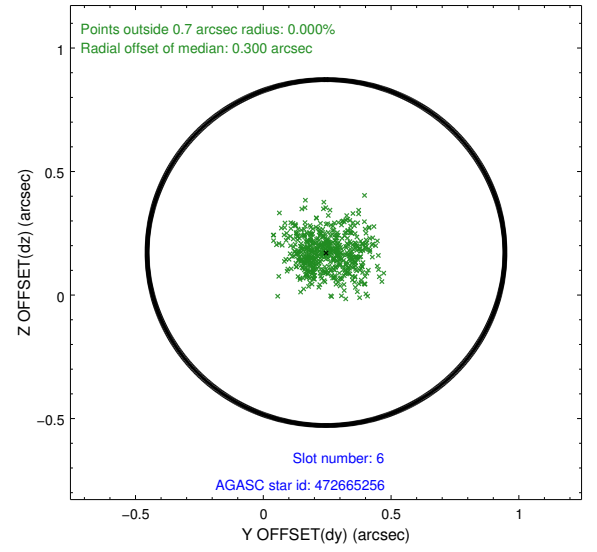
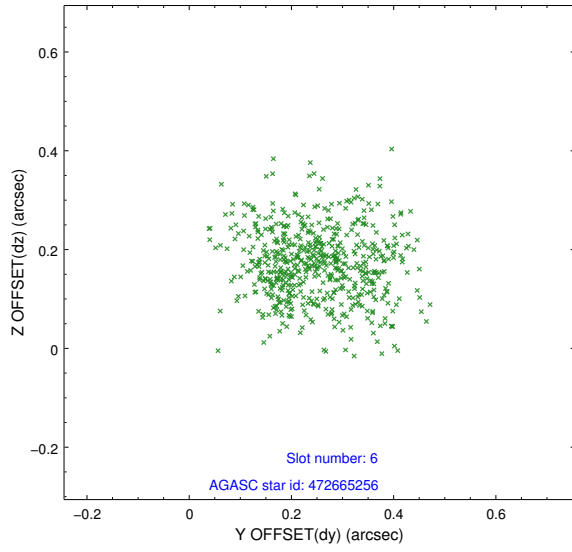
2.4.2 Slot 4



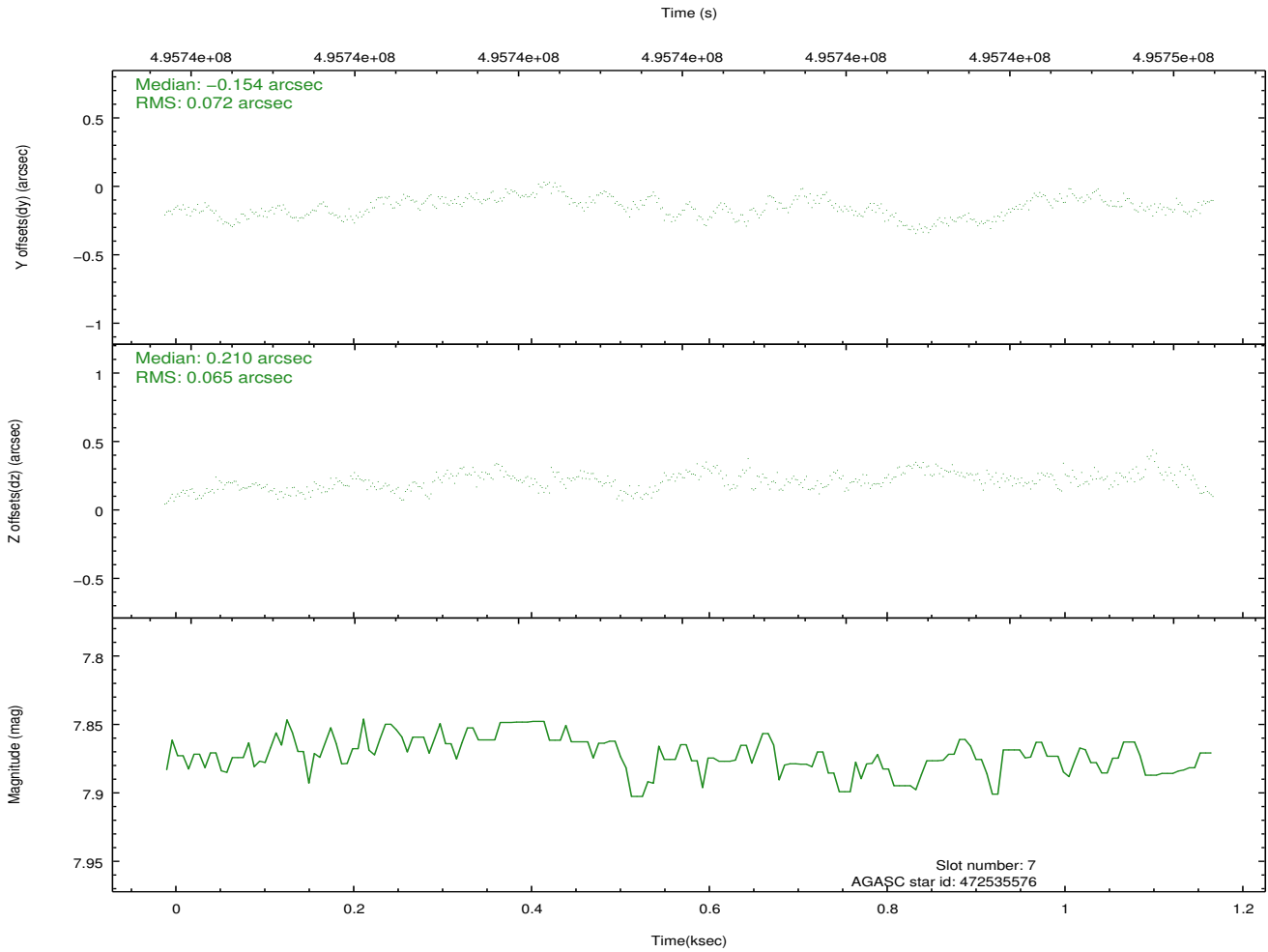
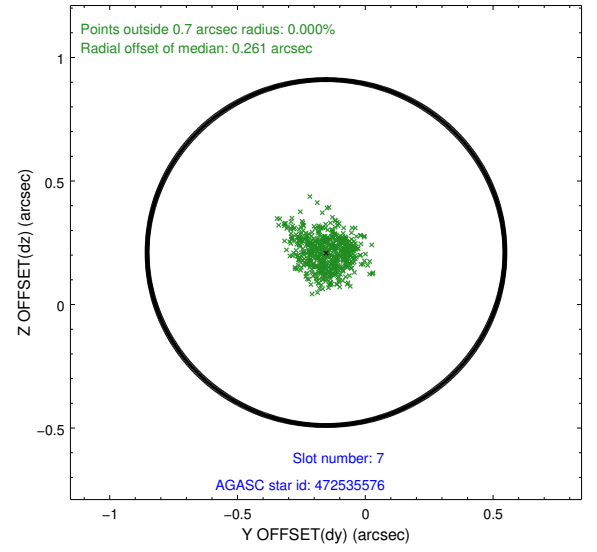
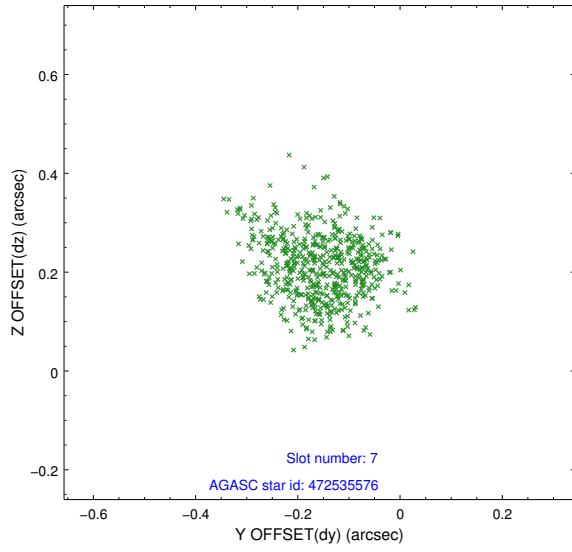
2.4.3 Slot 5



2.4.4 Slot 6

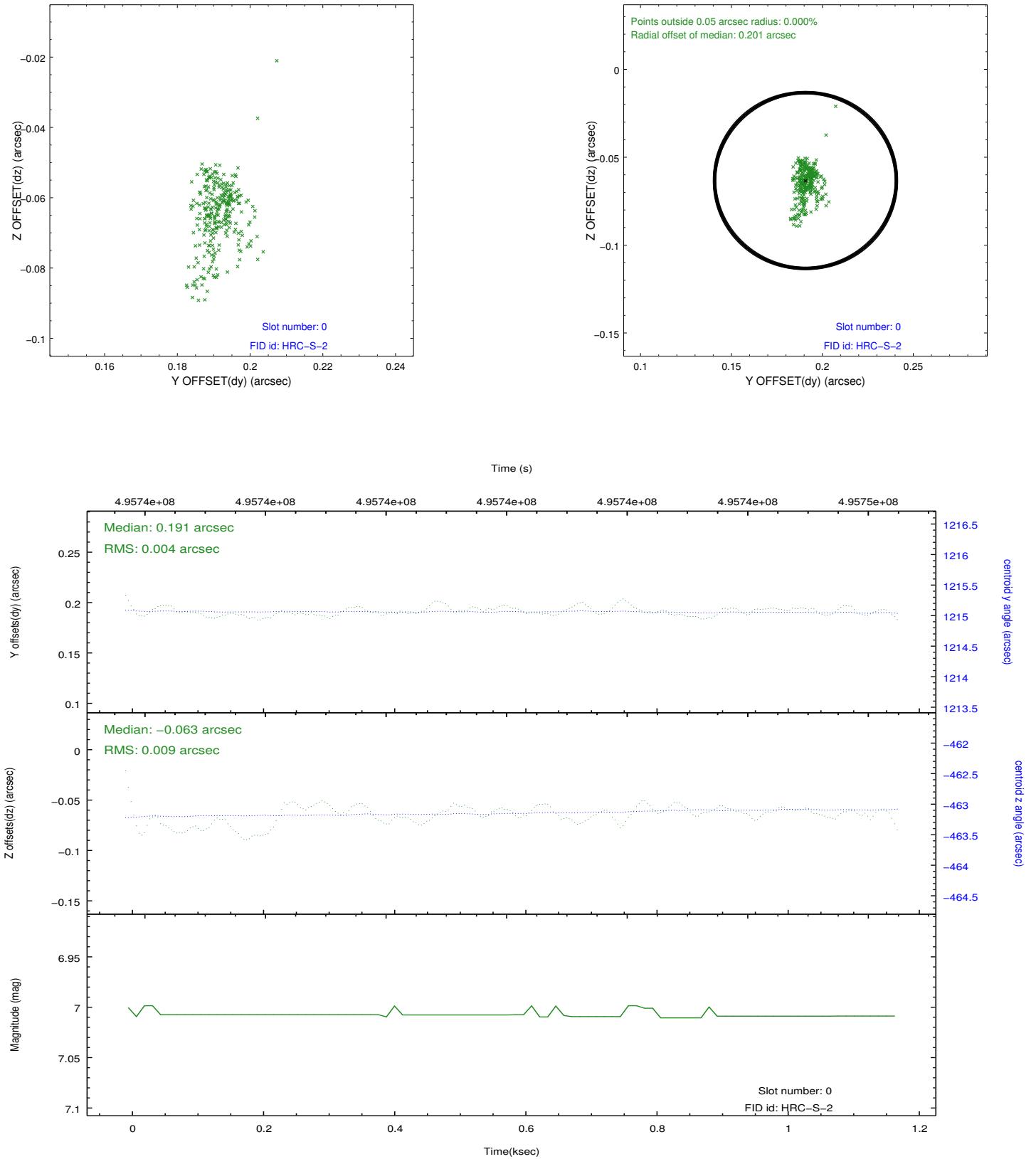


2.4.5 Slot 7

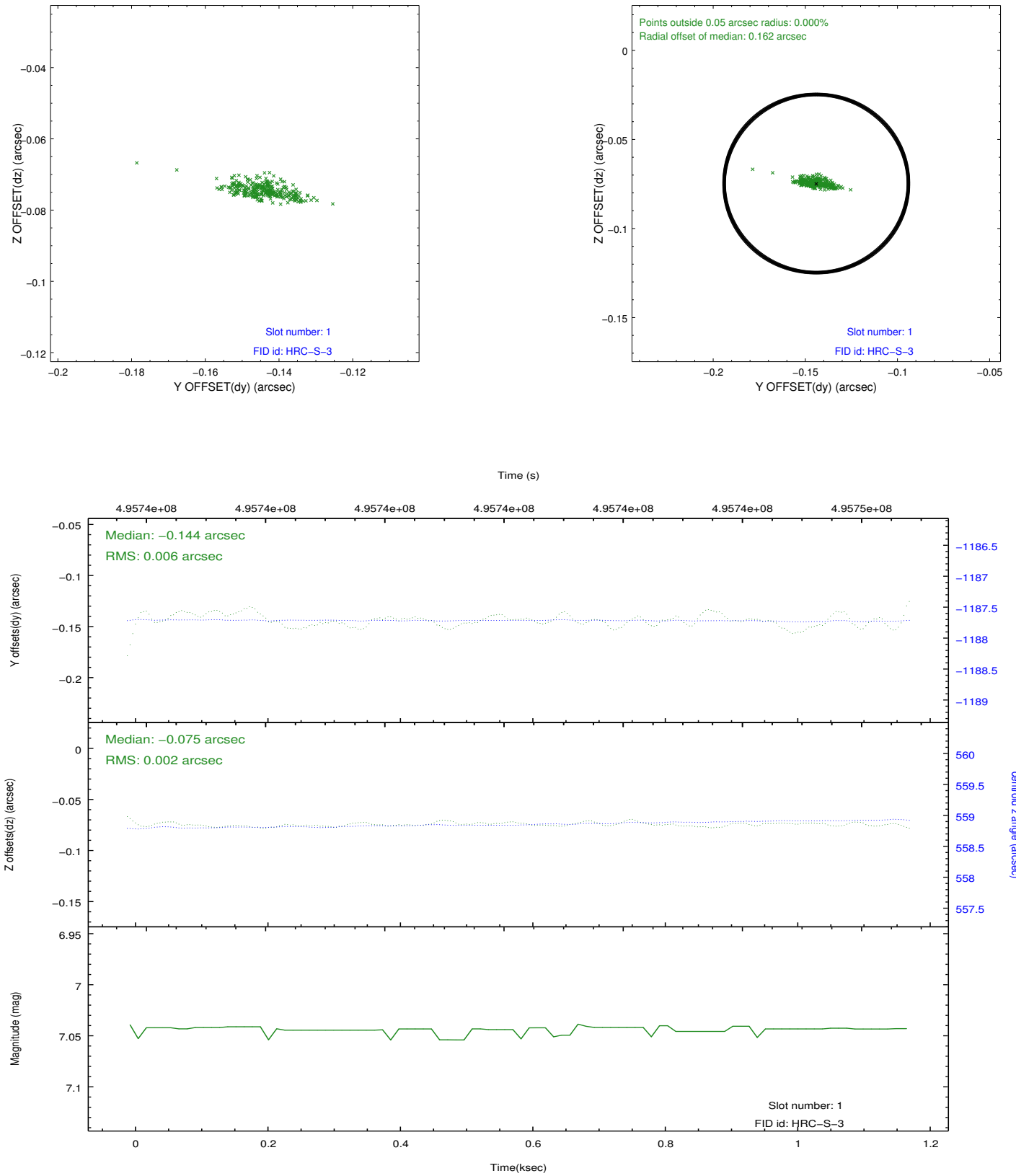


2.5 FID Slots

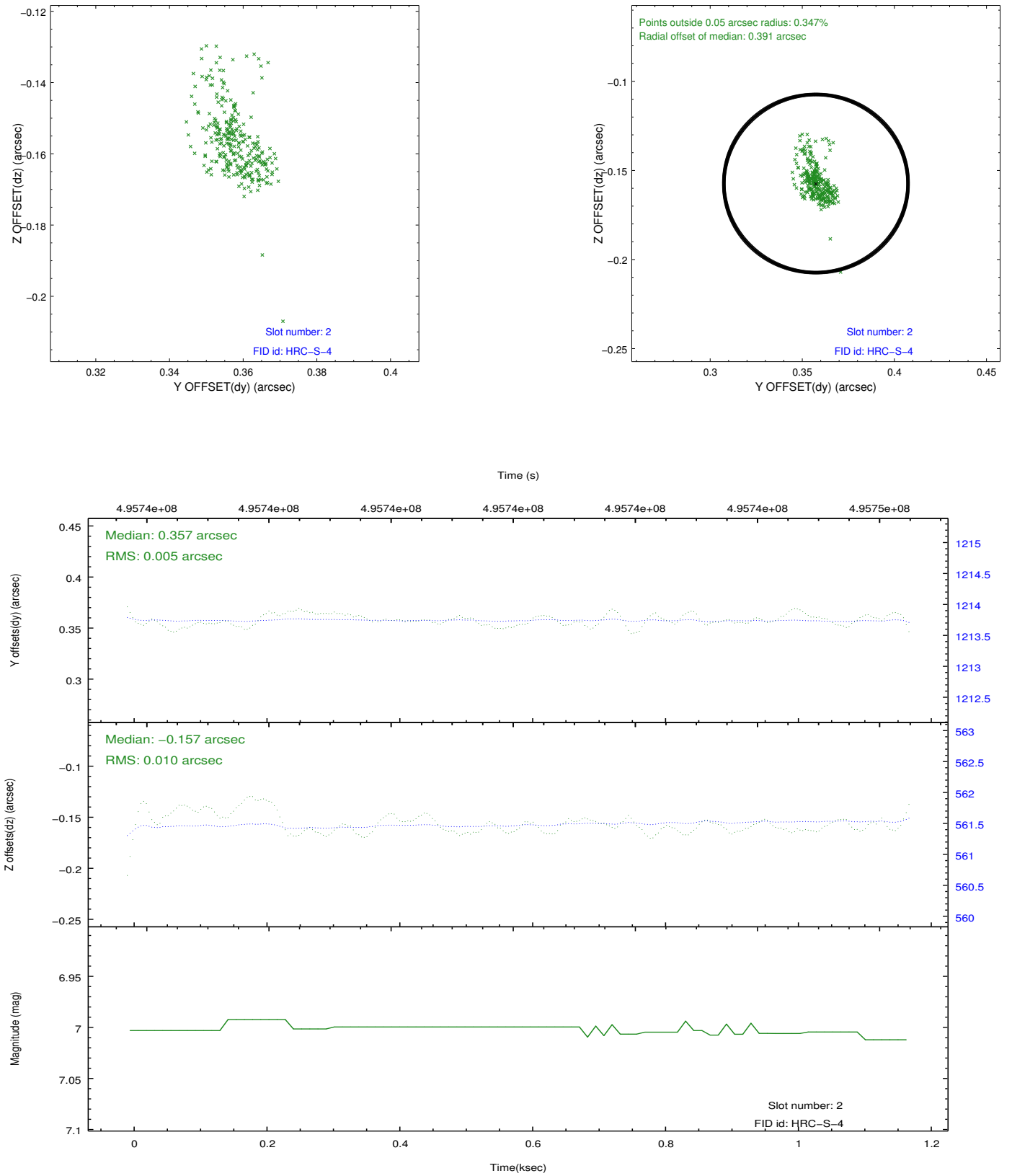
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.151075062871

A.2 Comments

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.