

V&V Reference Report

L2 ASCDS Version : 10

Observation 14677 - L2 Version 2
Chandra X-Ray Center

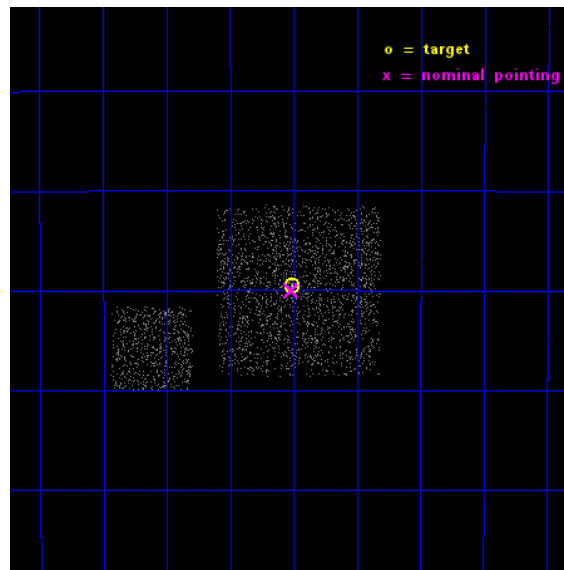
L2 Processing Date : Dec 6 2014

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

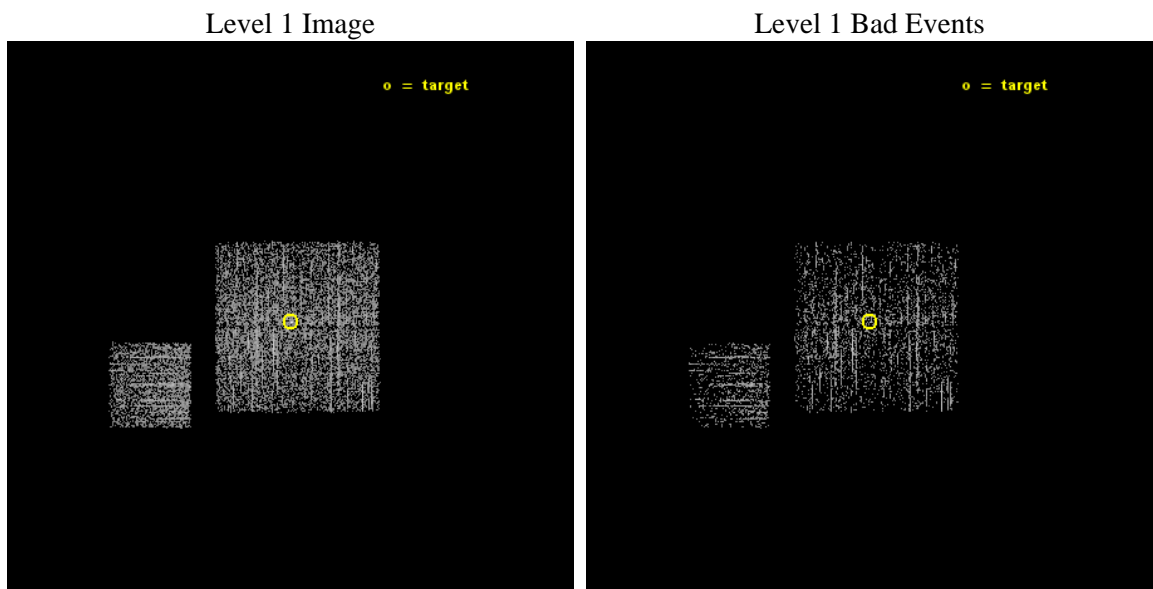
seq_num	401510	Sequence number
obs_id	14677	Observation id
title	Confirming the association of 1RXS~J180431.1-273932 with a Galactic Bulge giant	Proposal title
observer	Prof. David Smith	Principal investigator
object	1RXS J180431.1-273932	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	271.127083	Observer's specified target RA [deg]
dec_targ	-27.659111	Observer's specified target Dec [deg]
ra_nom	271.12938562118	Nominal RA [deg]
dec_nom	-27.666797669603	Nominal Dec [deg]
roll_nom	269.97865598577	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1032.3000079393	Sum of GTIs [s]
livetime	1018.8122483674	Livetime [s]
ontime0	1032.3000079393	Sum of GTIs [s]
ontime1	1032.3000079393	Sum of GTIs [s]
ontime2	1032.3000079393	Sum of GTIs [s]
ontime3	1032.3000079393	Sum of GTIs [s]
ontime6	1032.3000079393	Sum of GTIs [s]
l2events	3215	Number of level 2 events



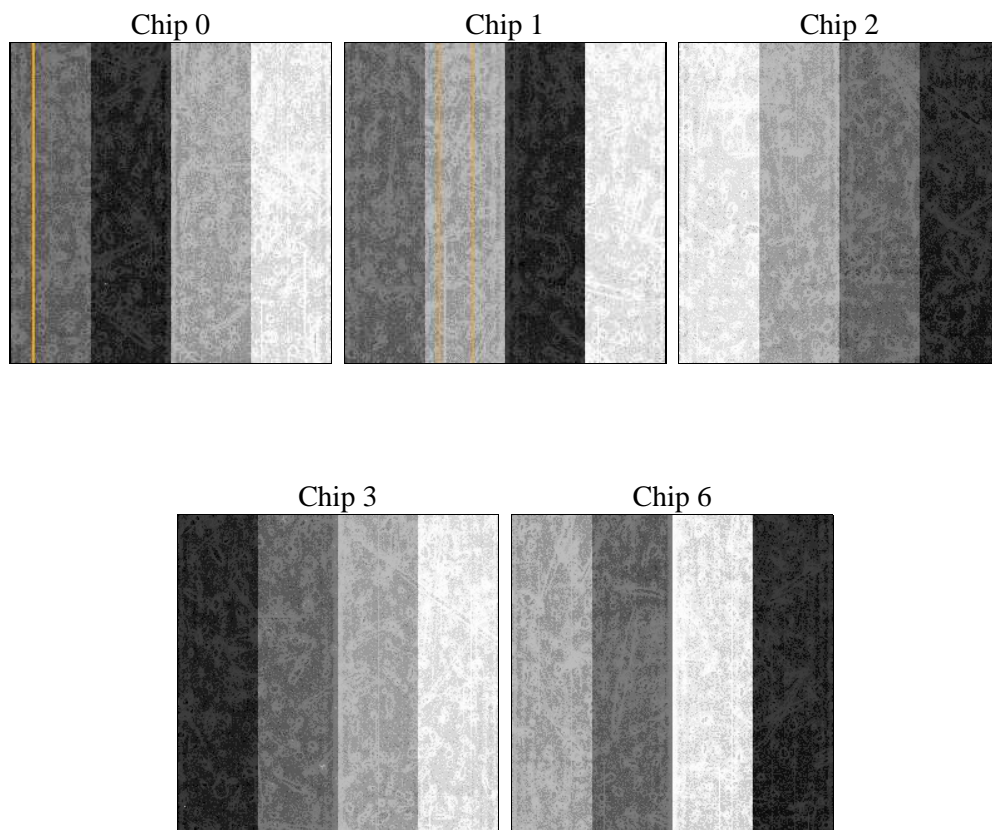
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	1000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	1032.3000079393	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	1032.3000079393	Sum of GTIs [s]
date	2014-12-06T23:52:40	Date and time of file creation	ontime1	1032.3000079393	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1032.3000079393	Sum of GTIs [s]
			ontime3	1032.3000079393	Sum of GTIs [s]
			ontime6	1032.3000079393	Sum of GTIs [s]
			l1events	26394	Number of level 1 events

2.1.4 Events

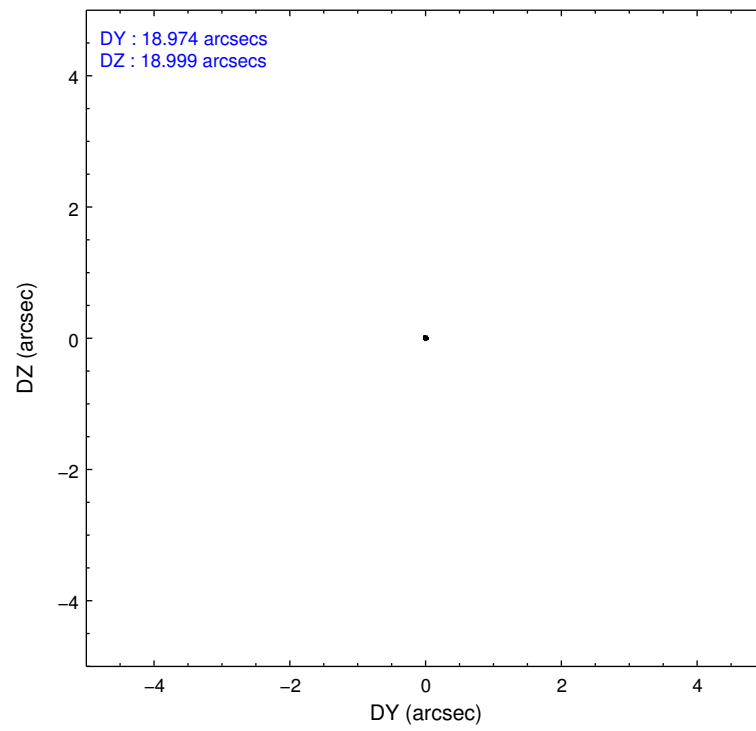
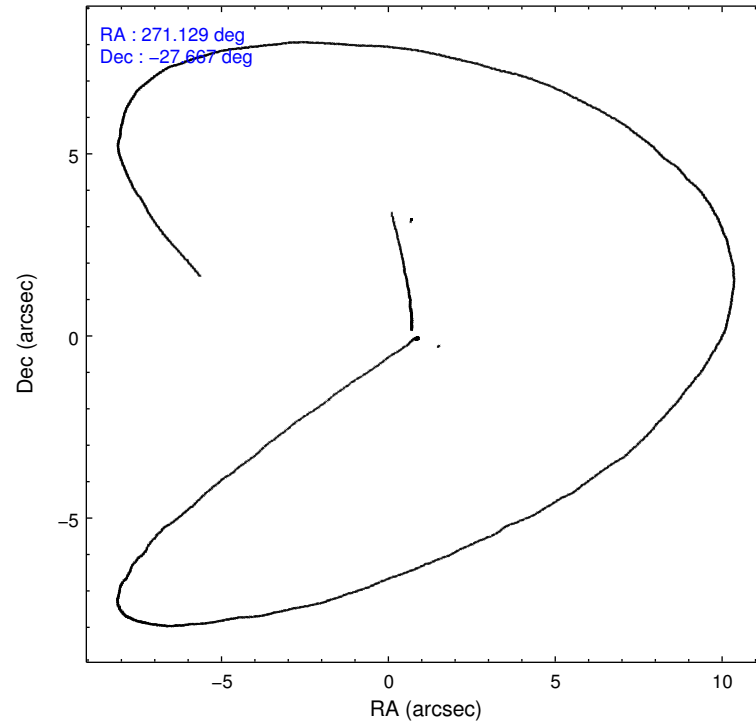
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	5193	5032	5684	5081	5404
rejected events	4486	4271	4999	4233	4606
rejected %	86%	84%	87%	83%	85%

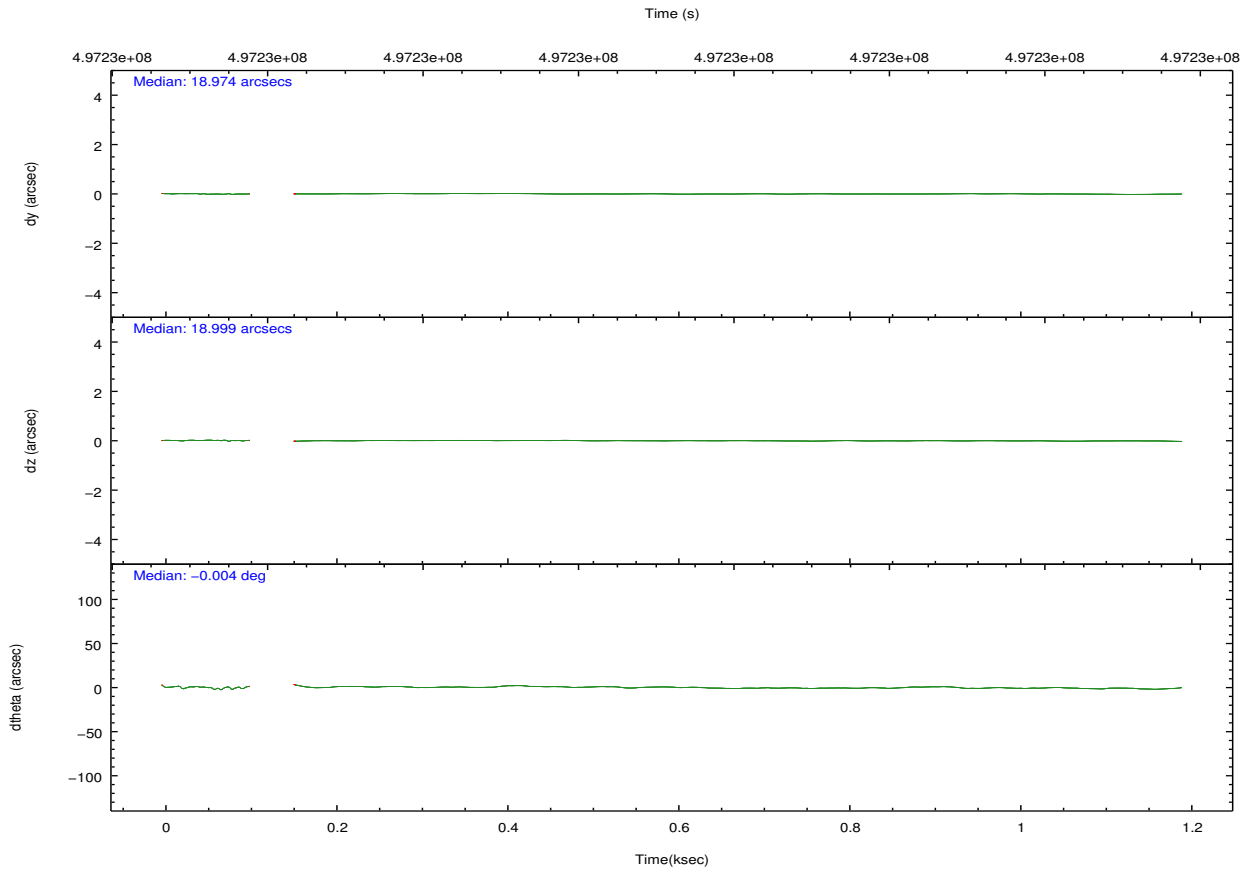
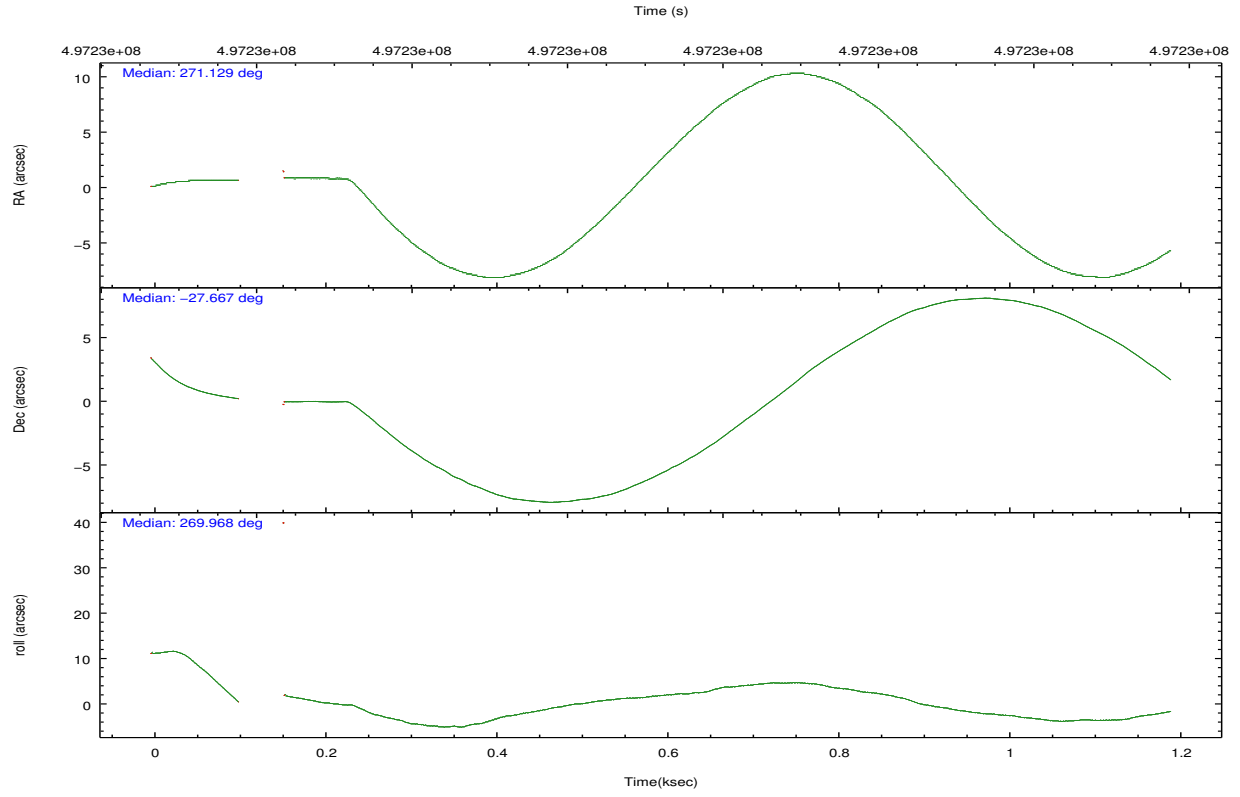
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	314	332	331	427	362
	6%	6%	5%	8%	6%
grade 1 events	3	2	6	12	4
	0%	0%	0%	0%	0%
grade 2 events	151	184	156	158	204
	2%	3%	2%	3%	3%
grade 3 events	83	76	56	77	55
	1%	1%	0%	1%	1%
grade 4 events	60	65	74	73	76
	1%	1%	1%	1%	1%
grade 5 events	276	273	255	275	251
	5%	5%	4%	5%	4%
grade 6 events	139	143	117	162	139
	2%	2%	2%	3%	2%
grade 7 events	4167	3957	4689	3897	4313
	80%	78%	82%	76%	79%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	271.114177	271.1293856211783	CCD I2 on	Y	Y
[deg] Pointing Dec	-27.643062	-27.66679766960323	CCD I3 on	Y	Y
[deg] Pointing Roll	269.762877	269.9786559857706	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	497226717.184000	497225363.38474	CCD S5 on	N	N
Observation start date	2013-10-03T22:30:50	2013-10-03T22:09:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	497227717.184000	497227917.17238	On-chip summing requested	N	N
Observation end date	2013-10-03T22:47:30	2013-10-03T22:51:57	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



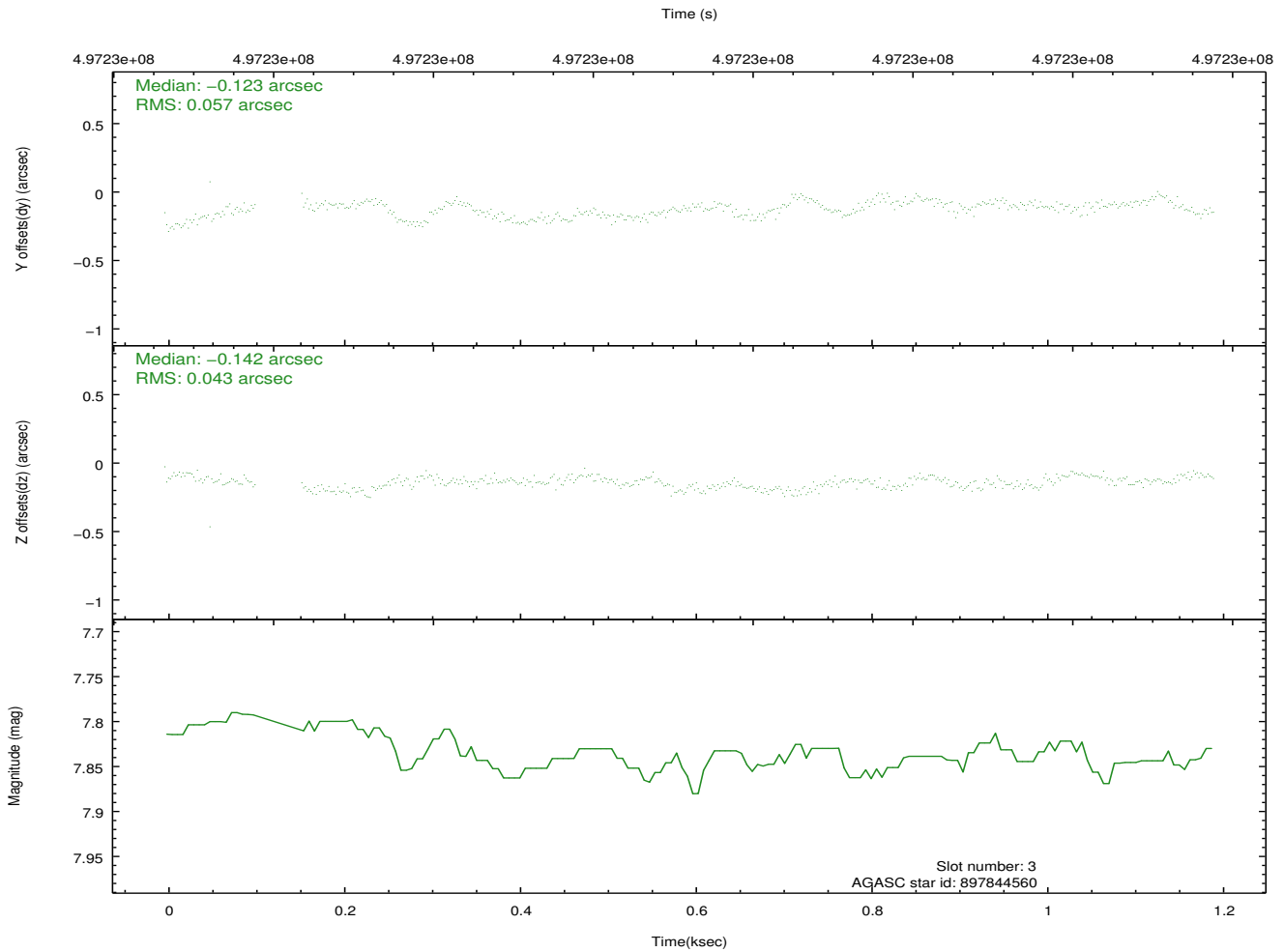
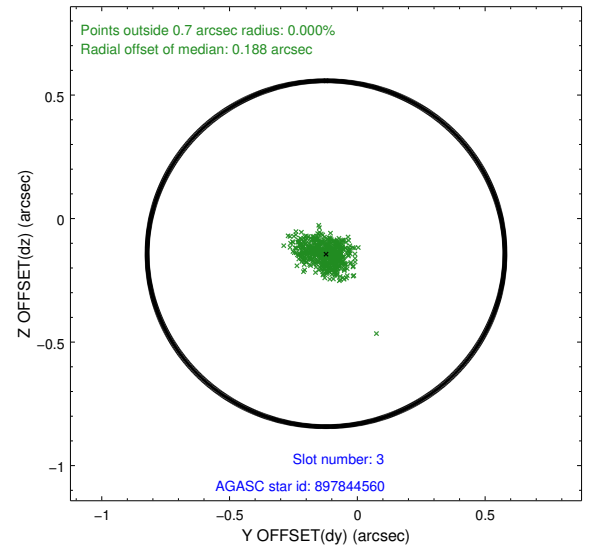
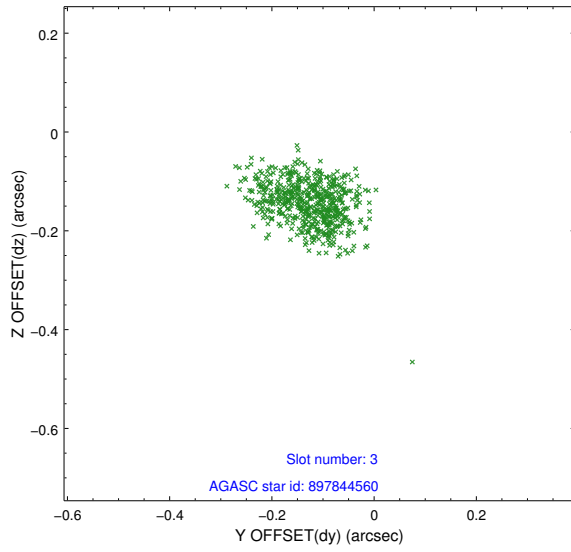


Slot Statistics

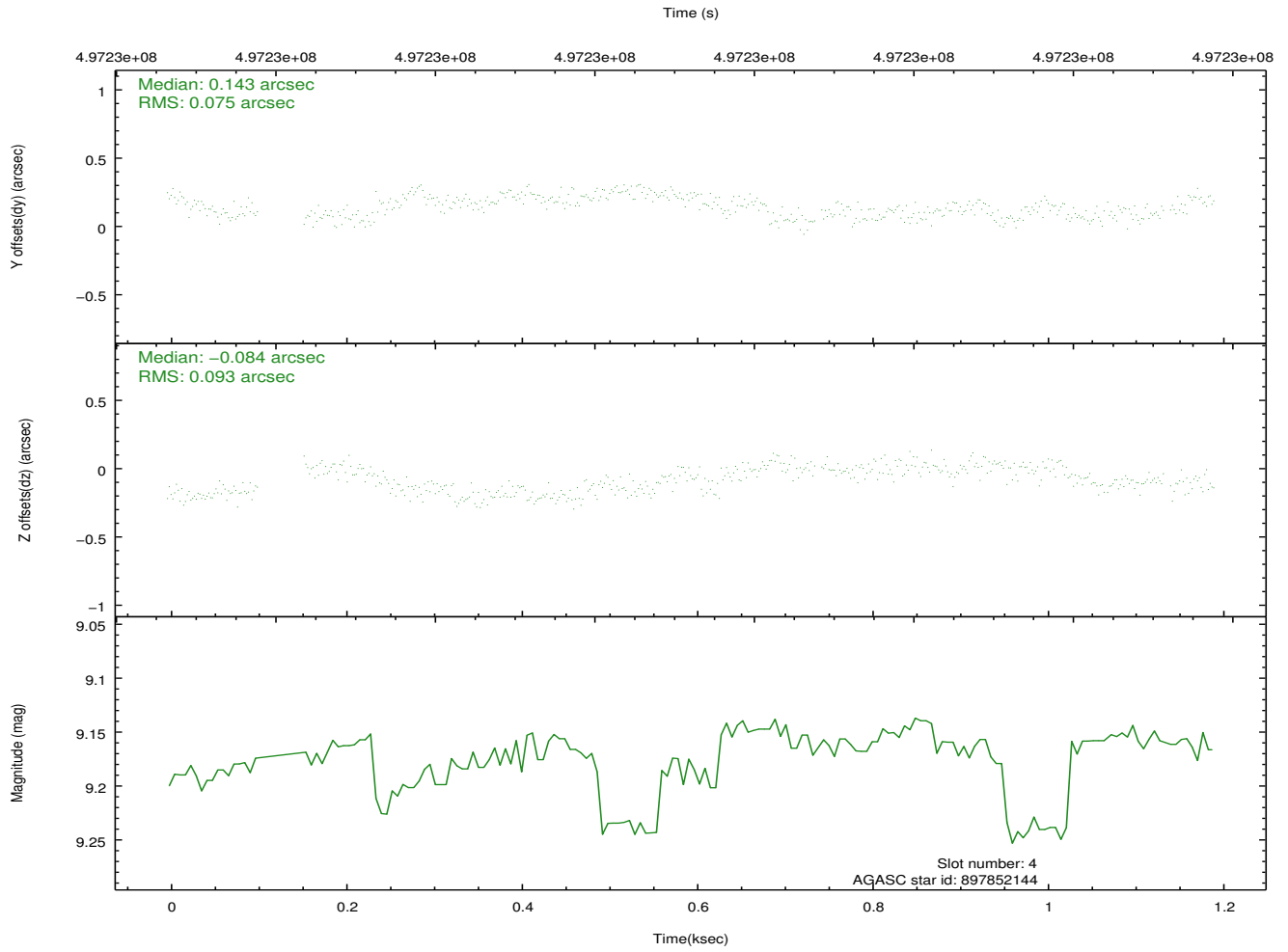
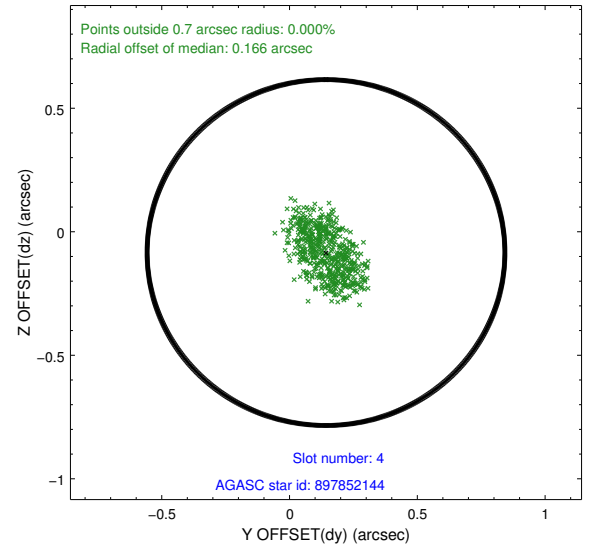
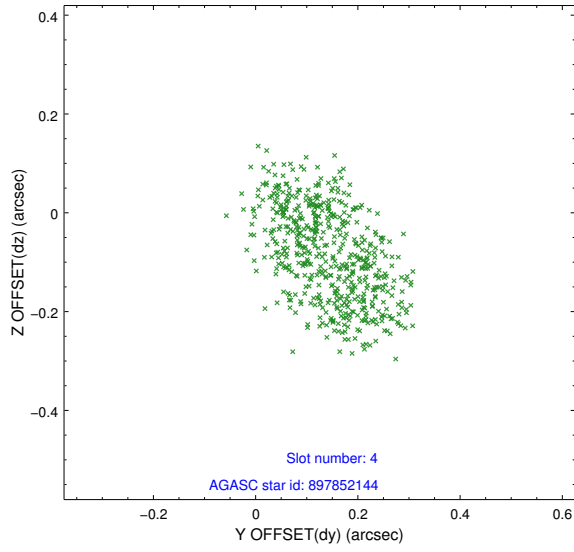
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	6.97	280	-0.102	-0.041	0.012	0.020	0.000000	0.000000	-773.88	-849.13
1	FID		ACIS-I-4	7.02	280	0.256	0.071	0.007	0.013	0.000000	0.000000	2137.80	1054.28
2	FID		ACIS-I-5	7.06	280	-0.255	0.038	0.012	0.017	0.000000	0.000000	-1820.47	1058.61
3	GUIDE	used	897844560	7.84	558	-0.123	-0.142	0.073	0.119	271.271436	-27.124371	-1868.86	497.54
4	GUIDE	used	897852144	9.17	551	0.143	-0.084	0.129	0.193	271.756846	-27.102058	-1954.12	2053.93
5	GUIDE	used	897860240	8.04	558	0.061	0.123	0.090	0.135	270.464638	-27.877318	854.69	-2057.62
6	GUIDE	used	897858520	8.87	557	-0.080	0.104	0.108	0.171	270.349062	-26.978172	-2372.30	-2466.95
7	MONITOR	unused		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

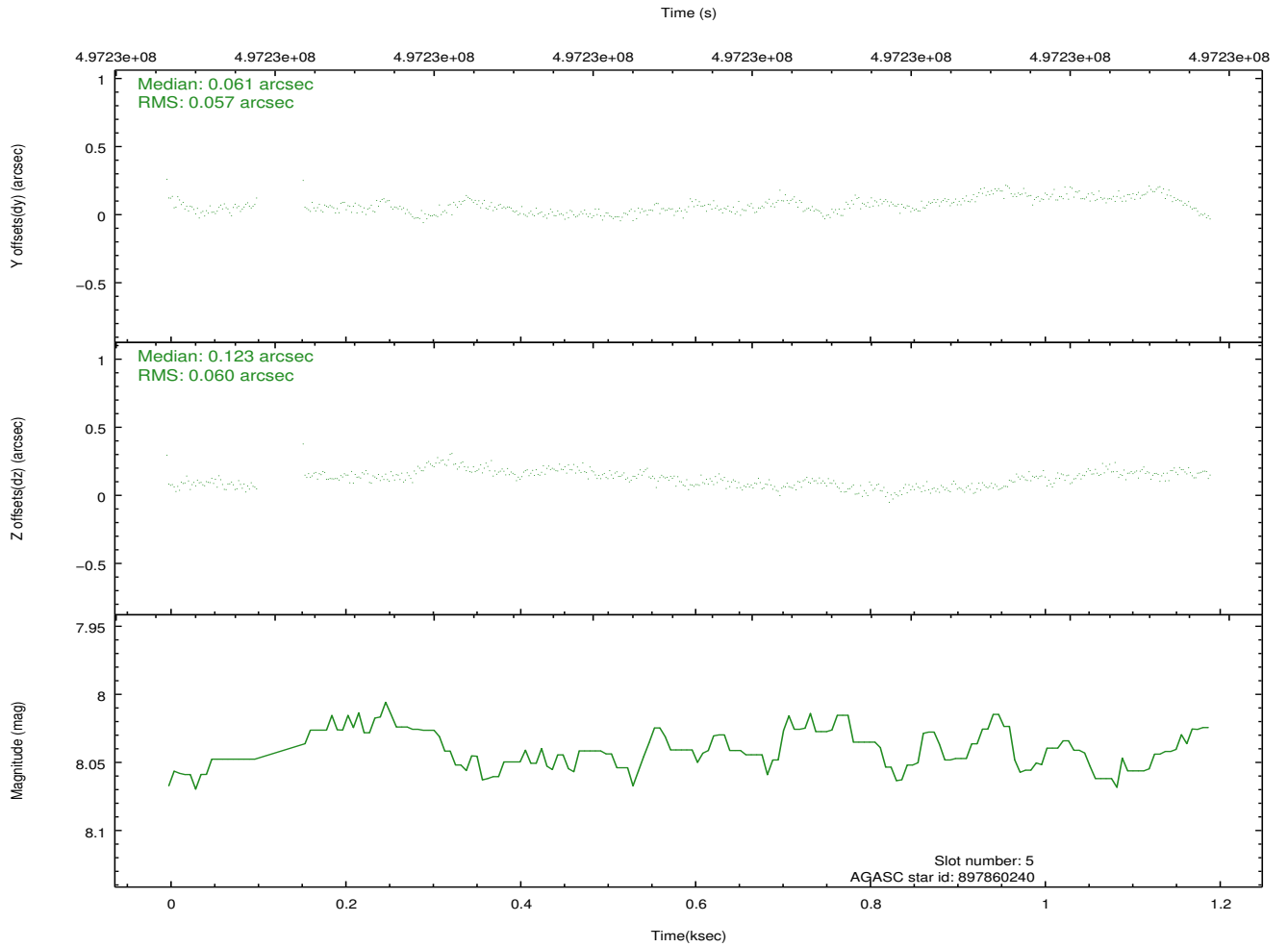
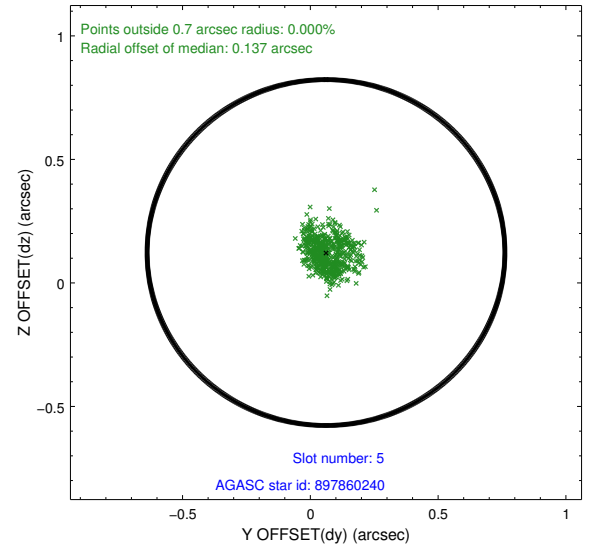
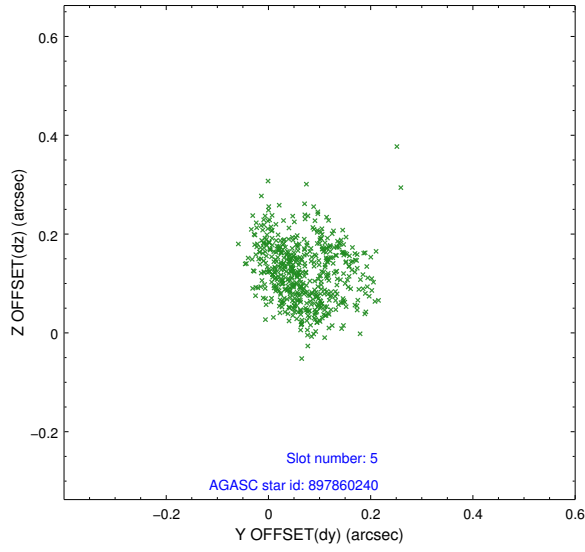
2.4.1 Slot 3



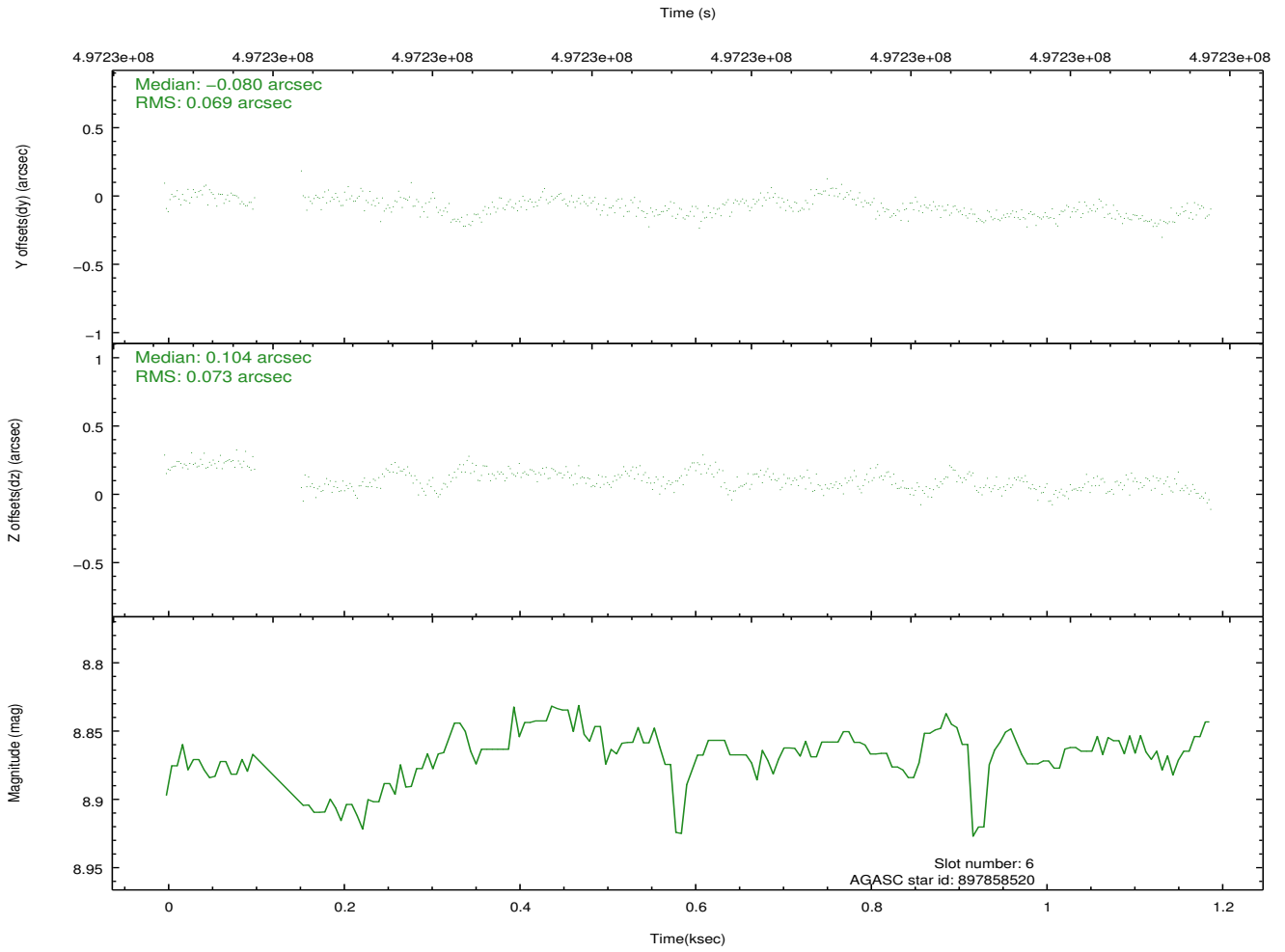
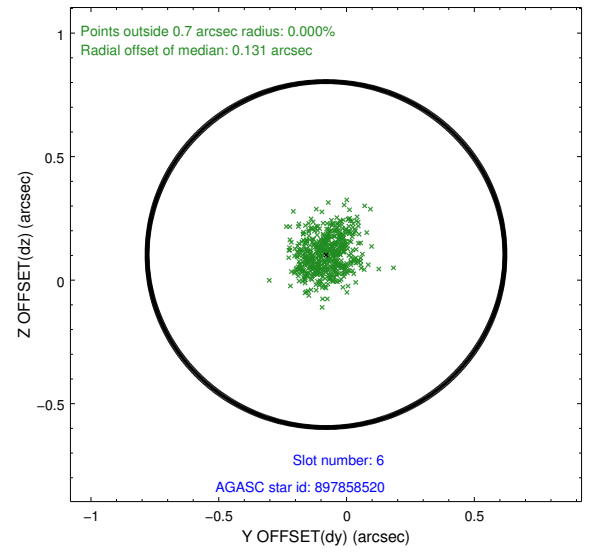
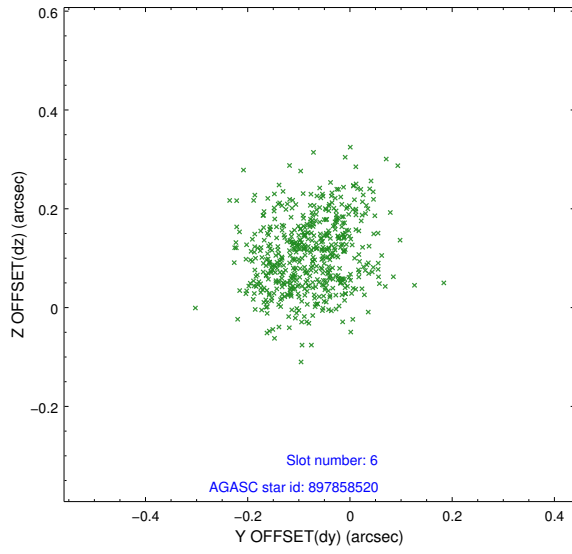
2.4.2 Slot 4



2.4.3 Slot 5

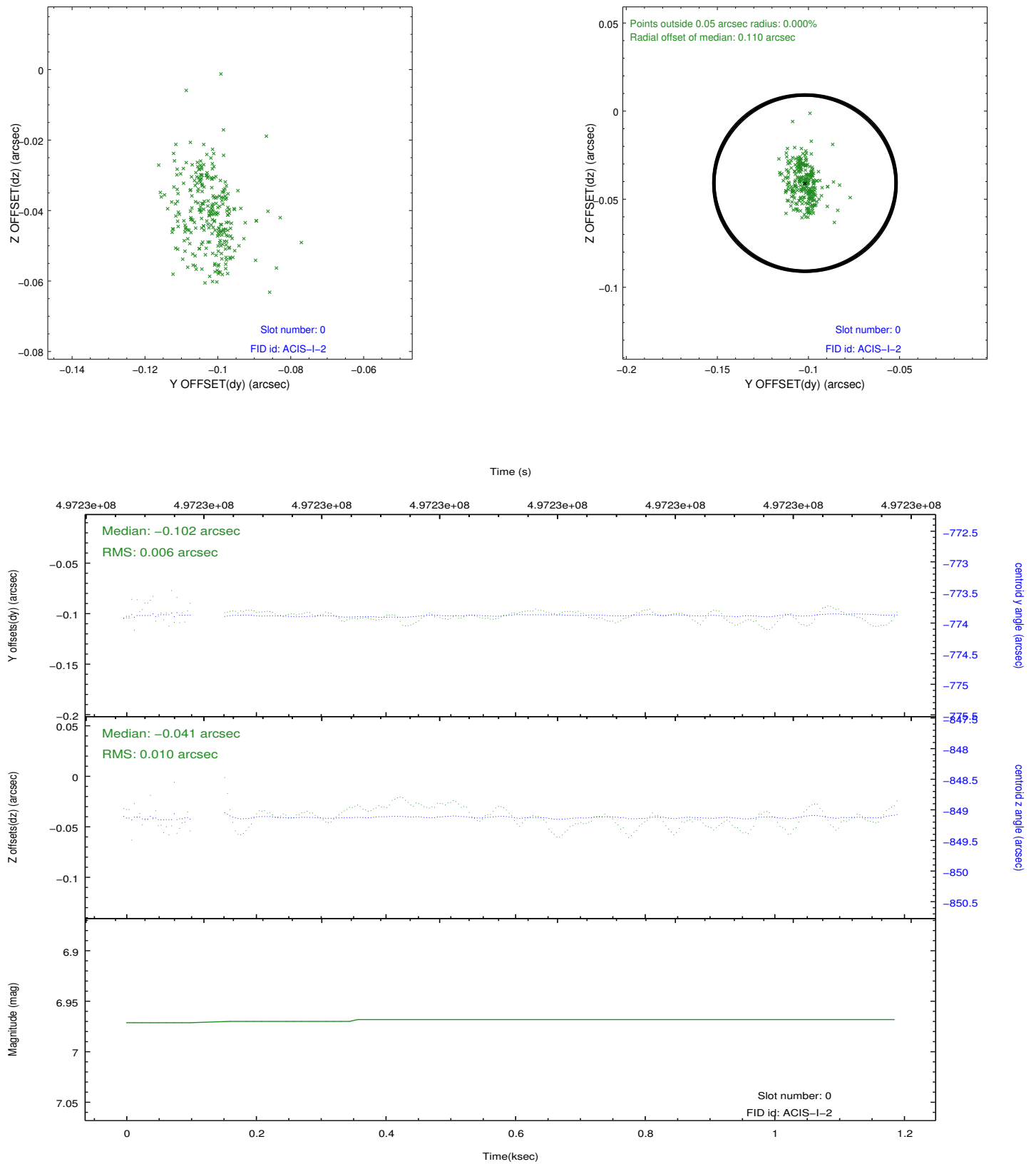


2.4.4 Slot 6

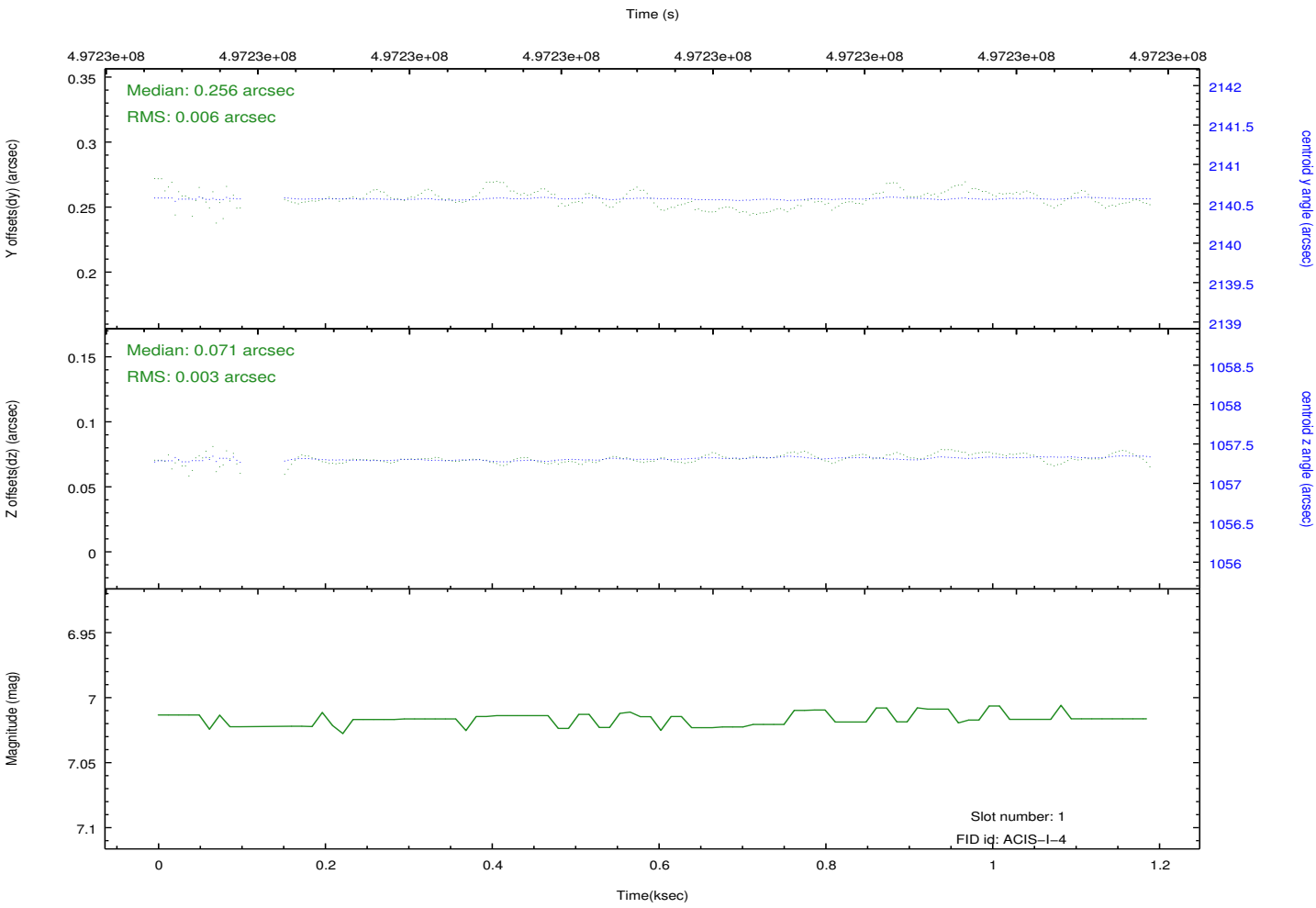
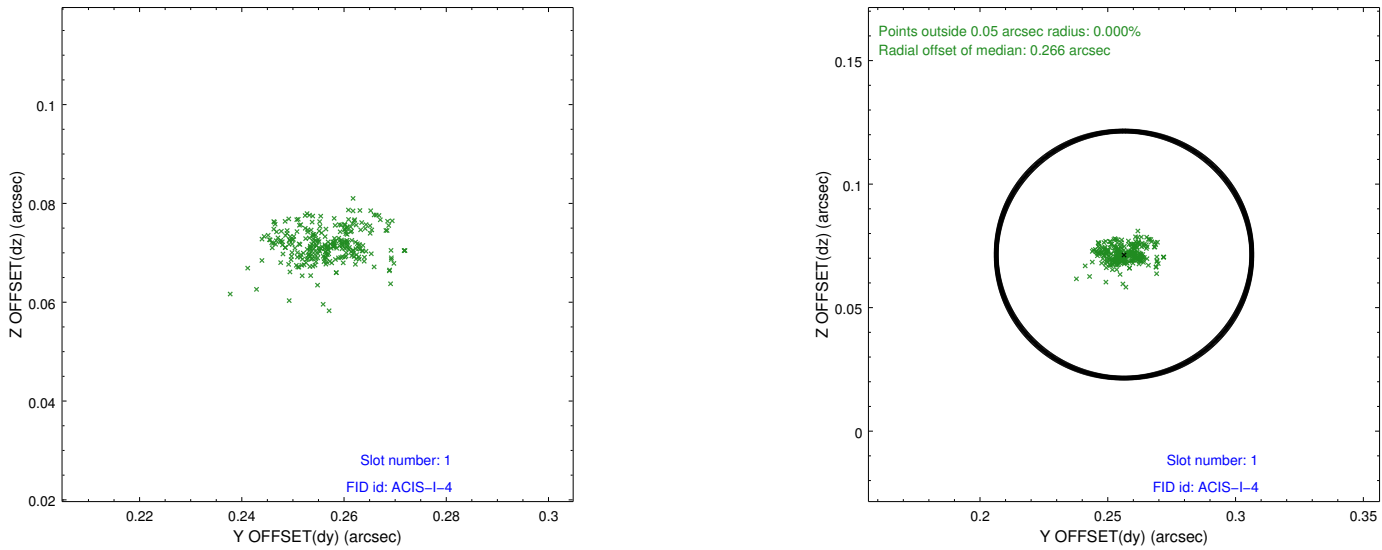


2.5 FID Slots

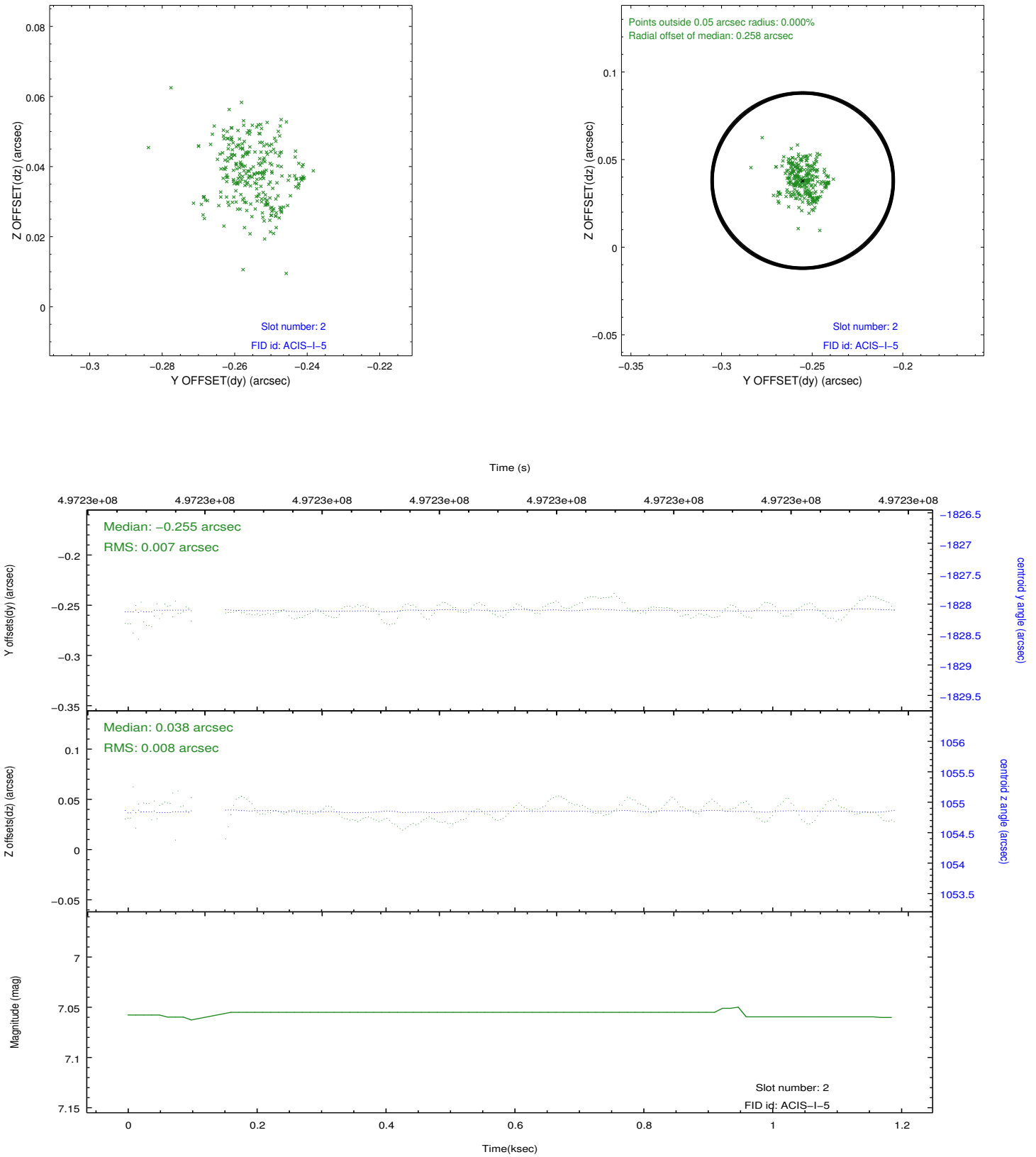
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.0323000079393

A.2 Comments

Slot 7 was used for optical photometry.

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.