V&V Reference Report
L2 ASCDS Version : 7.6.9

Observation 1817 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Nov 20 2007

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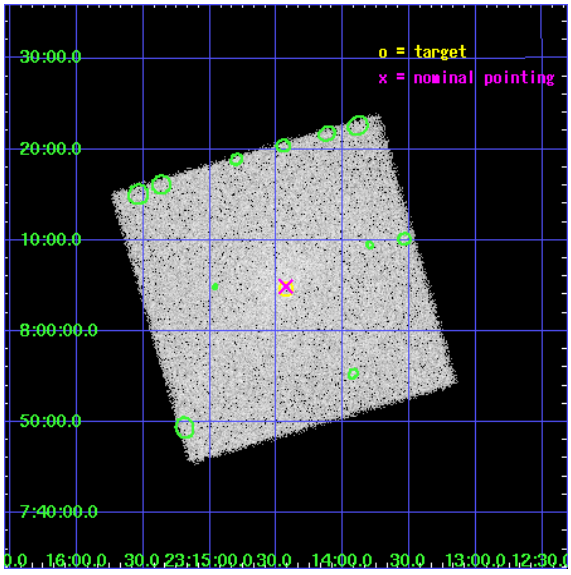
1 Front

seq_num	100009
obs_id	1817
title	SOLVING THE PUZZLE OF COMETARY X-RAY ORIGIN: OBSERVATIONS OF COMET 10P/TEMPEL 2
observer	DR W. THOMAS VESTRAND
object	LINEAR 2001 A2
ra_targ	348.607475
dec_targ	8.078107
ra_nom	348.60720340809
dec_nom	8.0820234011904
roll_nom	118.62679480312
revision	3
ontime	2335.975091368
livetime	2313.1762717851
l2events	171129

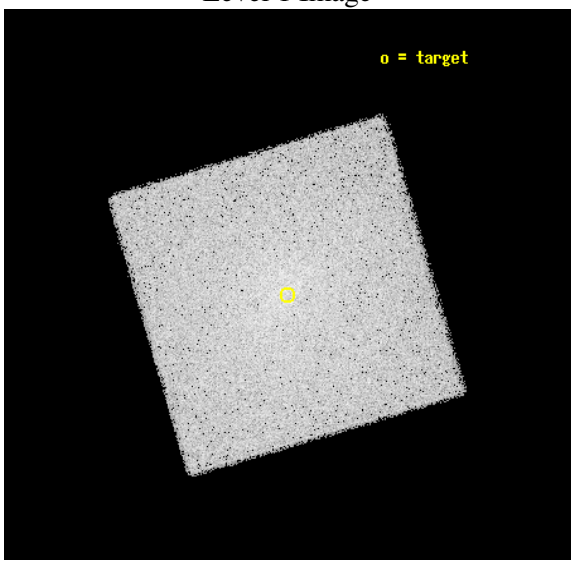


2 OBI

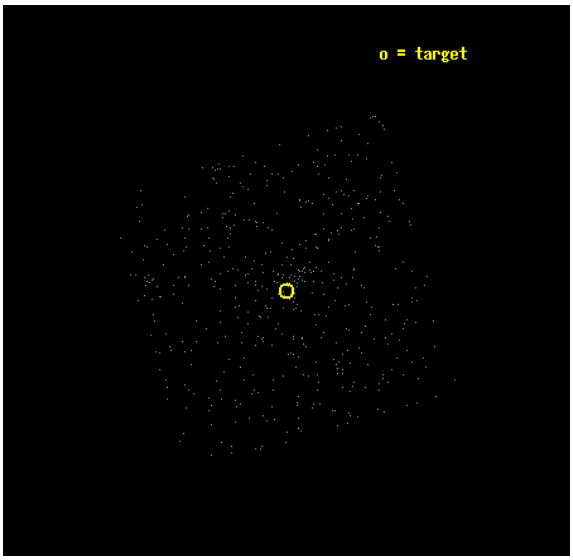
2.1 OBI

2.1.1 Images

Level 1 Image



Level 1 Bad Events



2.1.2 Parameters

obi_num	0
ascdsver	7.6.11.2
caldbver	3.4.1
date	2007-11-20T16:53:04
revision	3

sched_exp_time	2150.000000
ontime	2335.975091368
l1events	262865

2.1.3 Events

Level 1 Events

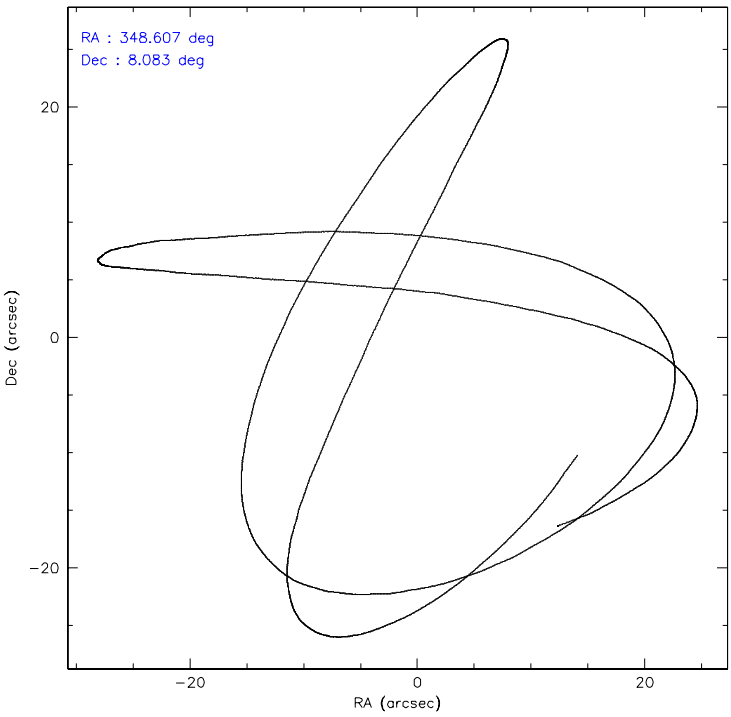
	segment 0
level 1 events	262865
rejected events	42143
rejected %	16%

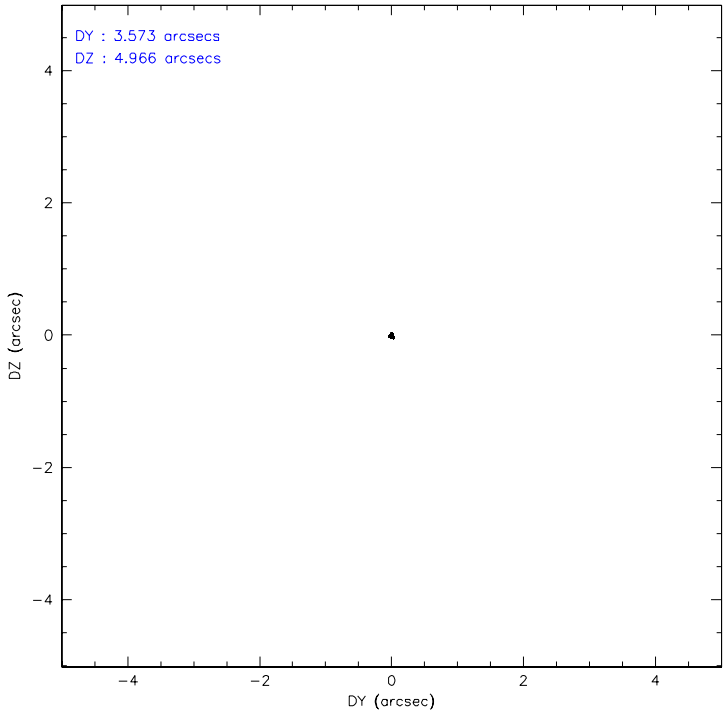
2.2 Compared Parameters

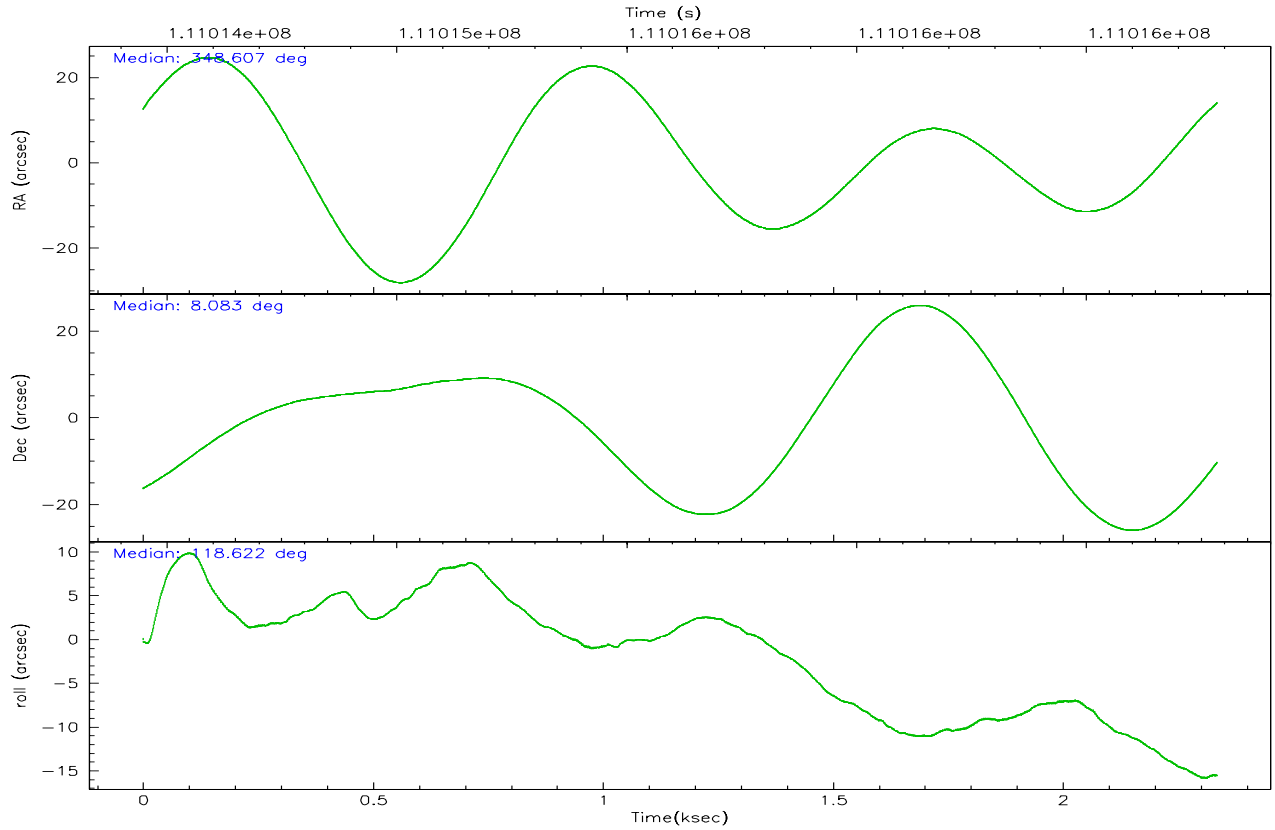
Parameter	Planned	Actual
Instrument	HRC	HRC
Detector	HRC-I	HRC-I
Grating	NONE	NONE
Data mode	OBSERVING	OBSERVING
Observation mode	POINTING	POINTING
Pointing RA	348.630732	348.6072034080922
Pointing Dec	8.068683	8.082023401190398
Pointing Roll	118.718936	118.6267948031182
SIM focus pos (mm)	-1.040293	-1.038866356238299
SIM defocus (mm)	0	0.00142626442057514 1
SIM translation stage pos (mm)	126.985494	126.9854943052878
SIM translation stage offset (mm)	0	-5.413686238853188e-06
Observation start time	111014632.184000	111014256.60831
Observation start date	2001-07-08T21:22:48	2001-07-08T21:17:36
Observation end time	111016782.184000	111016916.48341
Observation end date	2001-07-08T21:58:38	2001-07-08T22:01:56

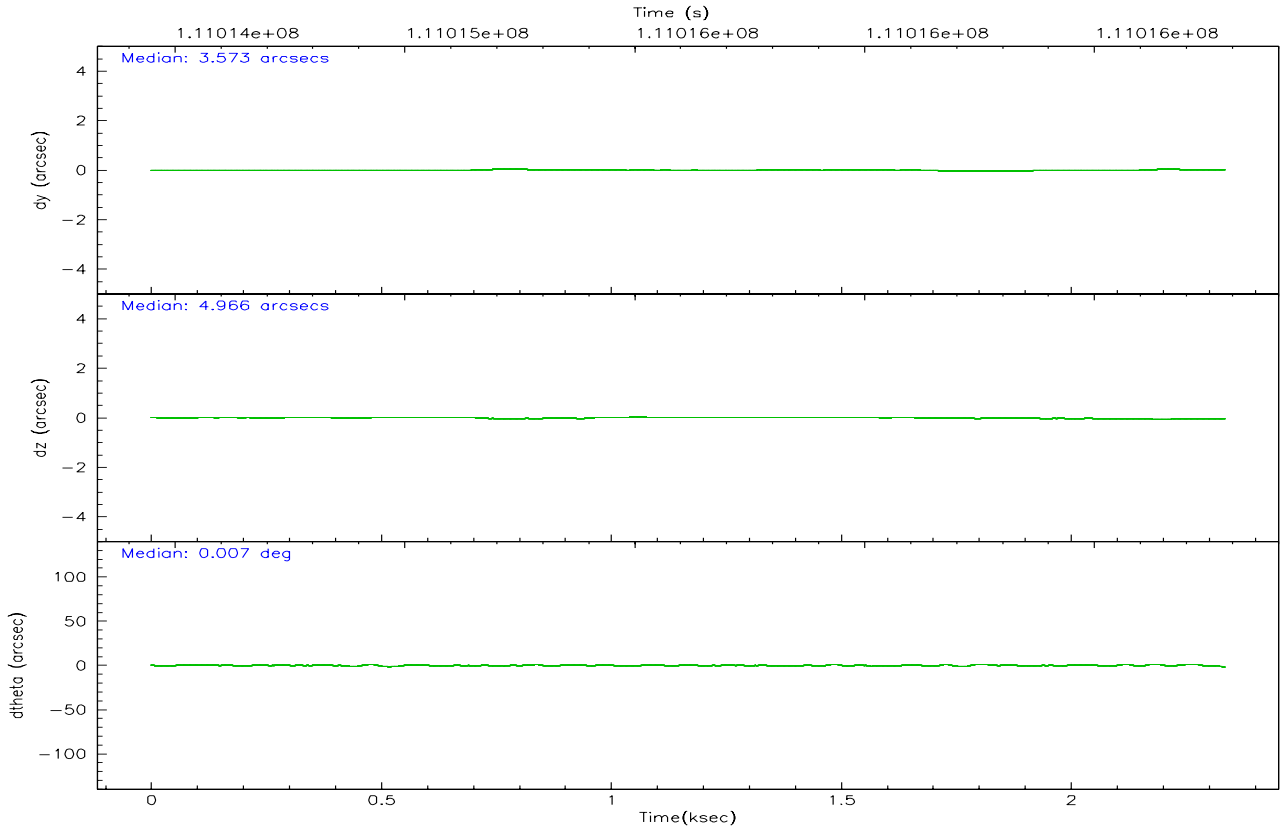
Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED

2.3 Aspect


RA : 348.607 deg
Dec : 8.083 deg
20
0
−20
Dec (arcsec)
−20
0
20
RA (arcsec)


DY : 3.573 arcsecs
DZ : 4.966 arcsecs
4
2
0
−2
−4
DZ (arcsec)
−4
−2
0
2
4
DY (arcsec)


Time (s)
1.11014e+08
1.11015e+08
1.11016e+08
1.11016e+08
1.11016e+08
Median: 348.607 deg
RA (arcsec)
Median: 8.083 deg
Dec (arcsec)
Median: 118.622 deg
roll (arcsec)
Time(ksec)

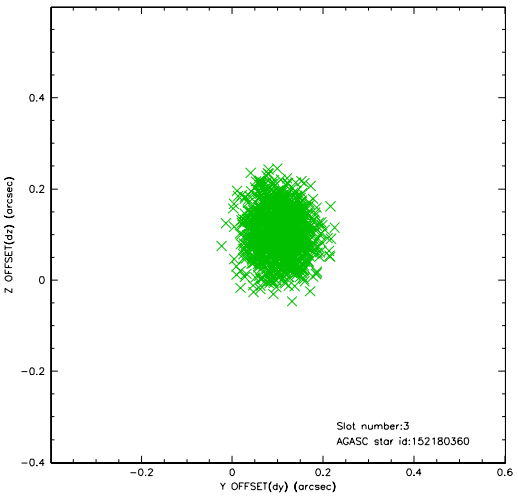

Time (s)
1.11014e+08
1.11015e+08
1.11016e+08
1.11016e+08
1.11016e+08
Median: 3.573 arcsecs
dy (arcsec)
Median: 4.966 arcsecs
dz (arcsec)
Median: 0.007 deg
dtheta (arcsec)
Time(ksec)

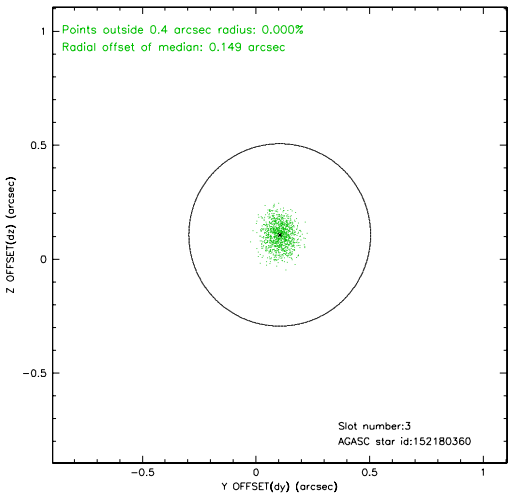
Slot Statistics

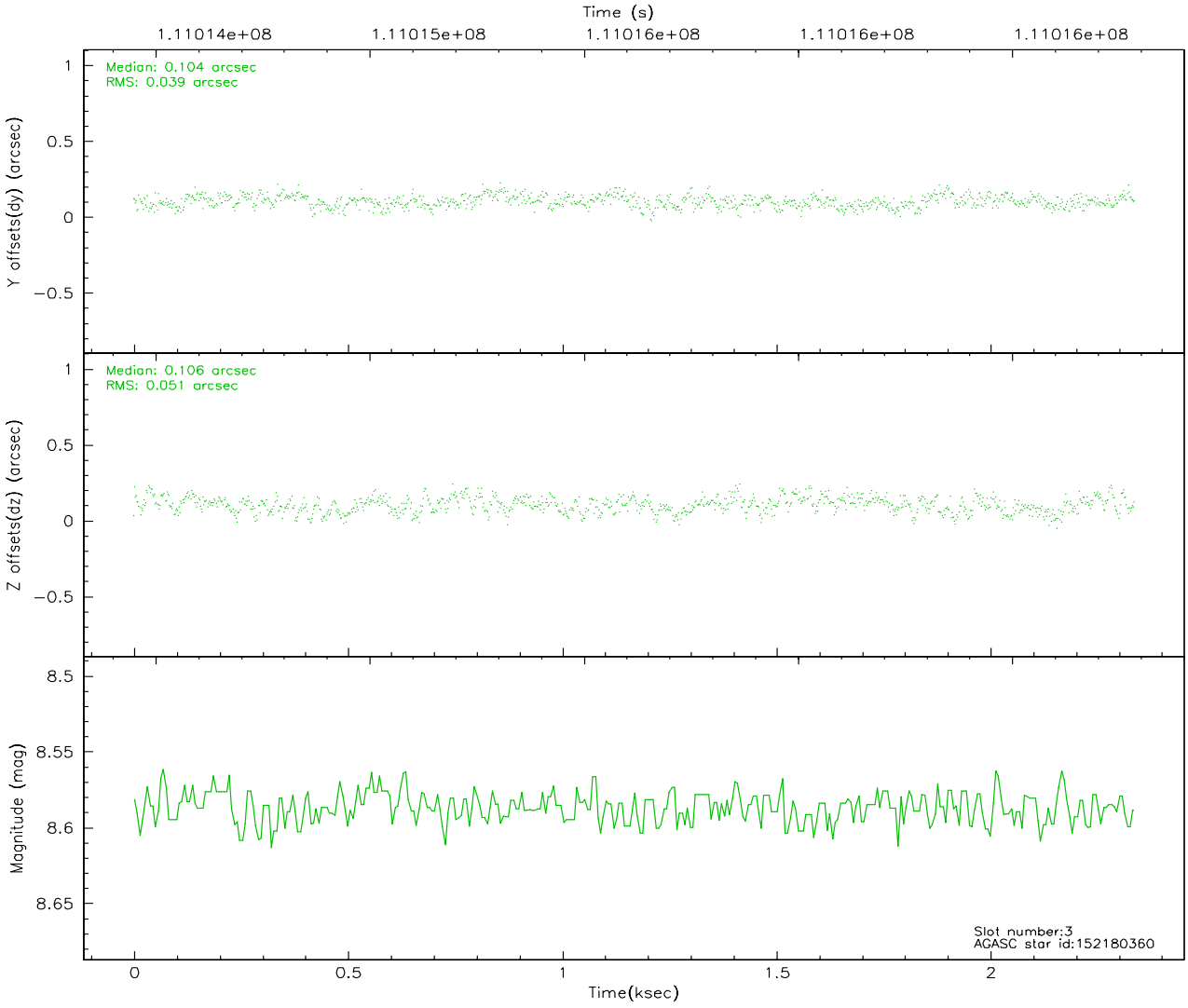
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-2	7.02	570	0.050	-0.015	0.007	0.012	0.000000	0.000000	853.66	-1294.36
1	FID	HRC-I-3	7.06	570	0.014	-0.022	0.006	0.011	0.000000	0.000000	-1186.07	1009.44
2	FID	HRC-I-4	7.00	570	0.055	-0.049	0.006	0.011	0.000000	0.000000	1281.68	1011.13
3	GUIDE	152180360	8.59	1141	0.104	0.106	0.069	0.113	349.110181	8.037159	-919.18	-1445.14
4	GUIDE	152181664	8.63	1141	-0.241	0.266	0.082	0.125	348.774873	8.789488	2028.99	-1697.99
5	GUIDE	152188480	8.91	1141	0.037	-0.120	0.072	0.118	348.517103	8.131940	396.63	243.80
6	GUIDE	76417928	9.88	1132	0.168	-0.145	0.136	0.245	348.460608	7.395636	-1832.24	1696.41
7	GUIDE	152184592	9.65	1133	-0.065	-0.104	0.116	0.187	348.366260	8.397865	1490.92	257.71

2.4 Star Slots

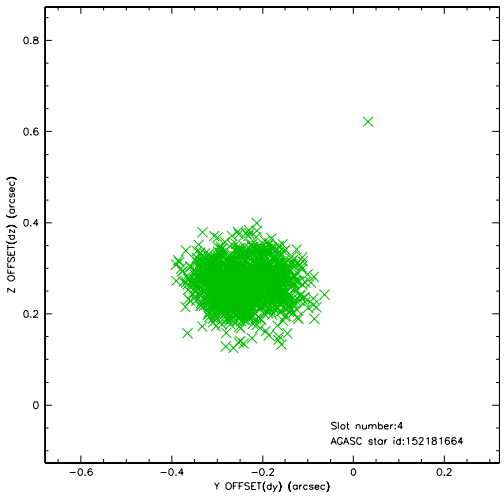
2.4.1 Slot 3

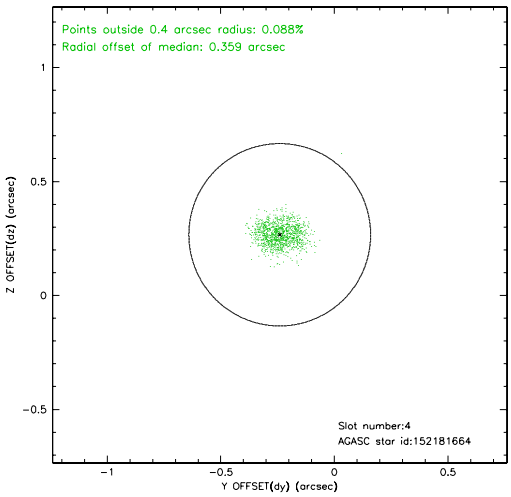


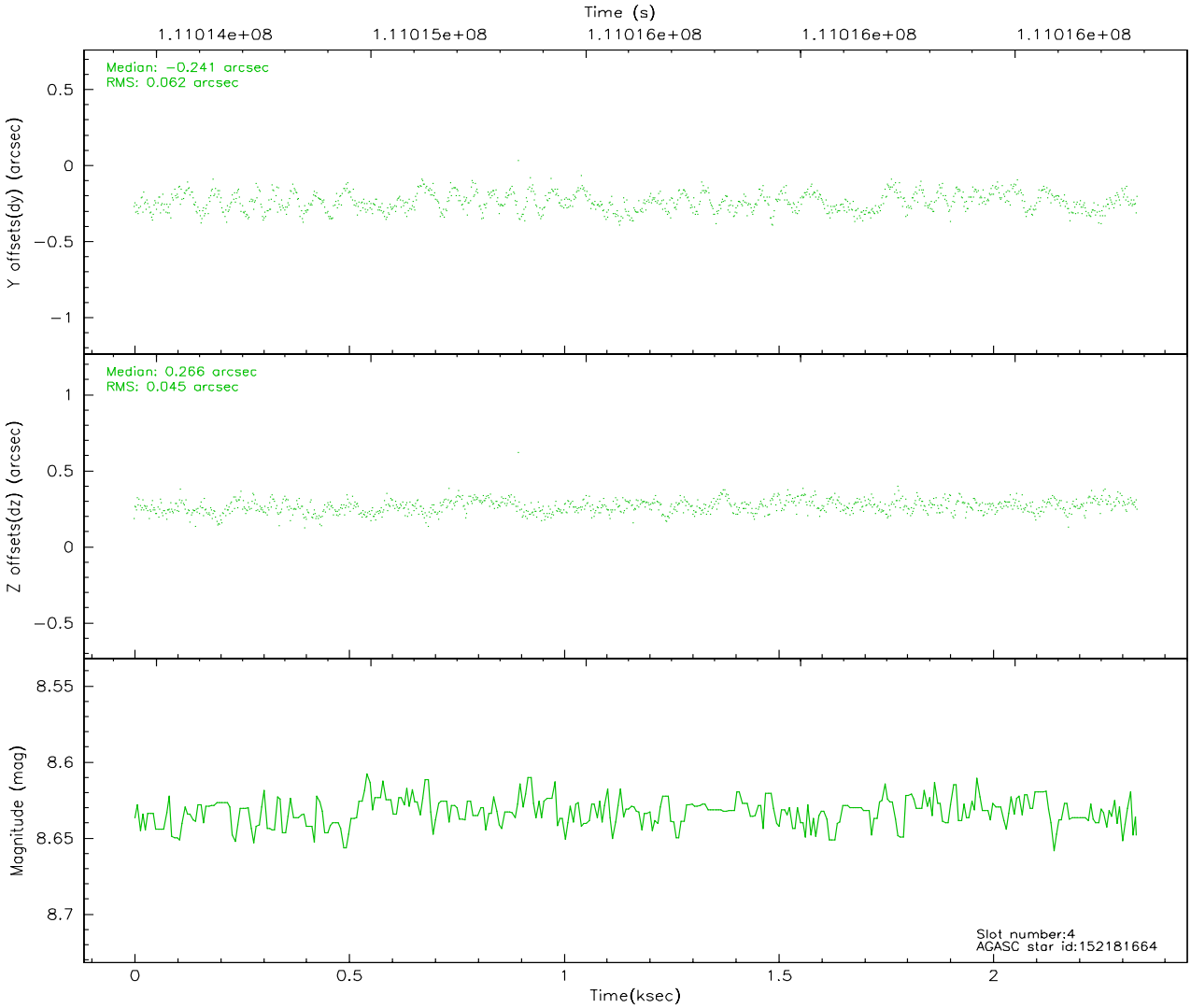




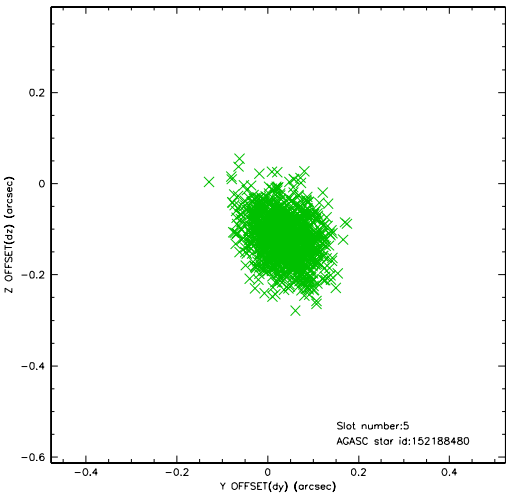
2.4.2 Slot 4

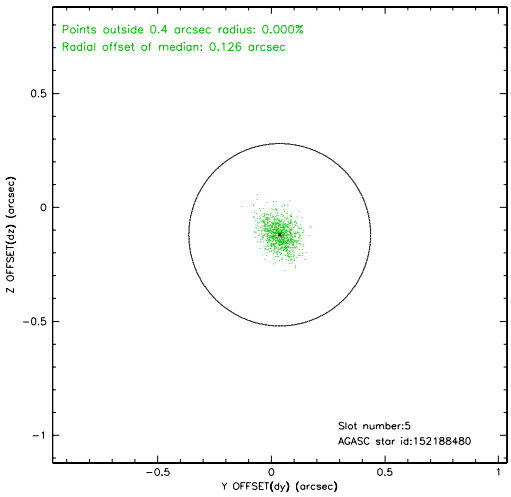

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:4
AGASC star id:152181664

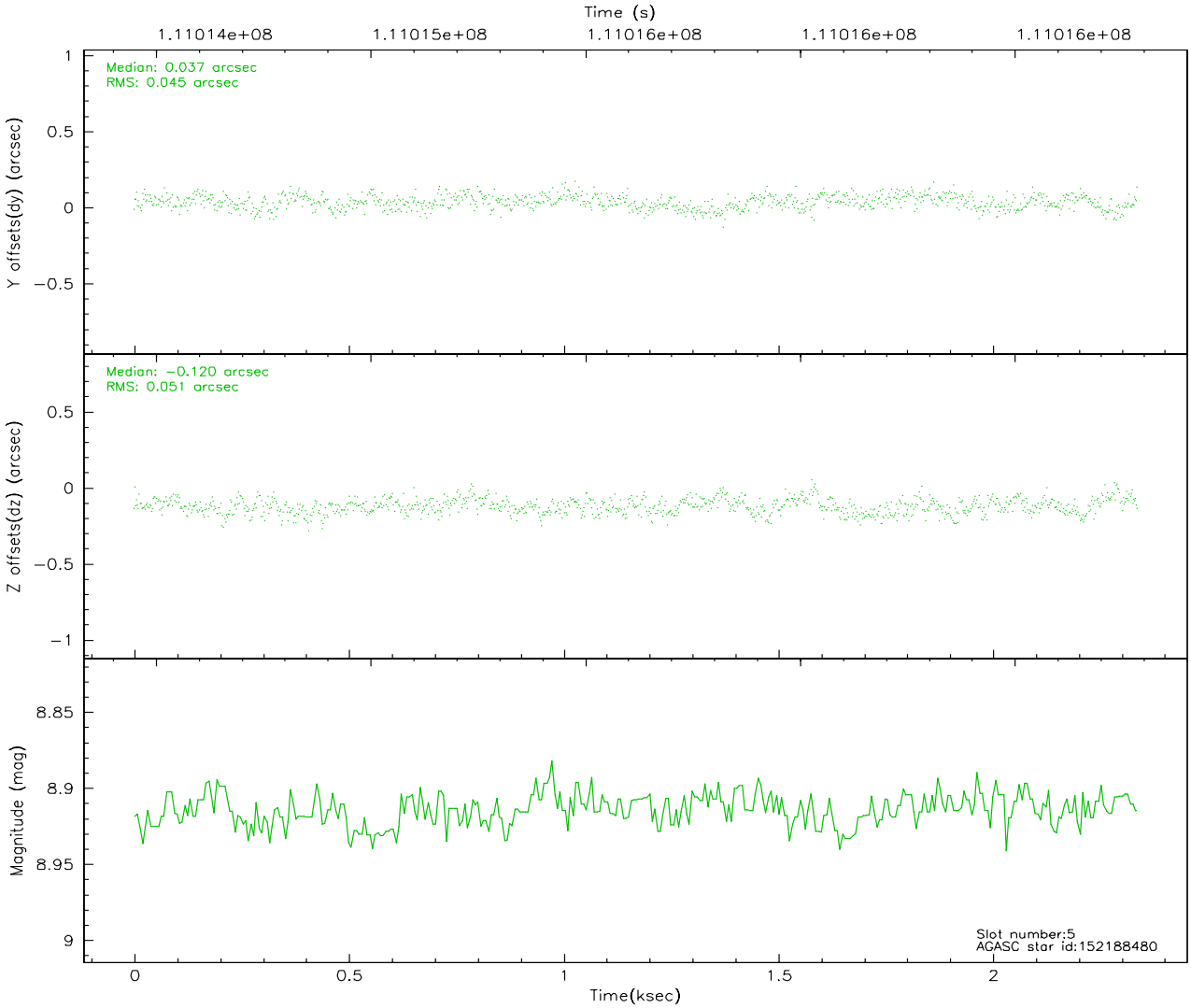

Points outside 0.4 arcsec radius: 0.088%
Radial offset of median: 0.359 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:4
AGASC star id:152181664


Time (s)
1.11014e+08
1.11015e+08
1.11016e+08
1.11016e+08
1.11016e+08
Median: −0.241 arcsec
RMS: 0.062 arcsec
Y offsets(dy) (arcsec)
Median: 0.266 arcsec
RMS: 0.045 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number:4
AGASC star id:152181664
Time(ksec)

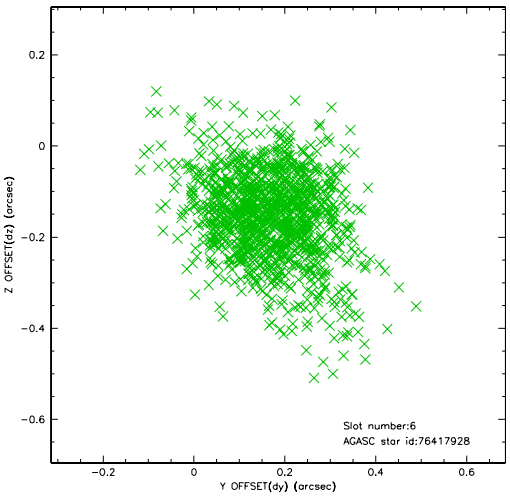
2.4.3 Slot 5

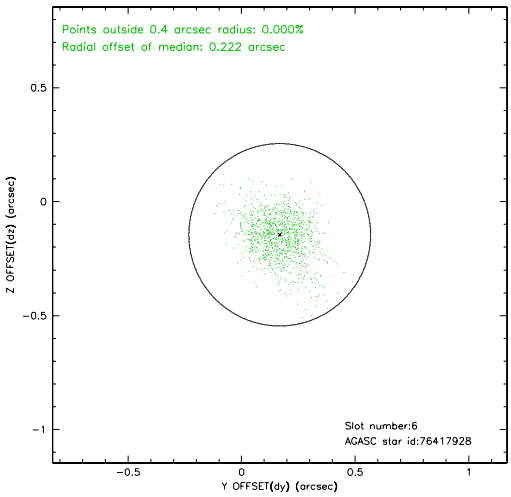

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:5
AGASC star id:152188480

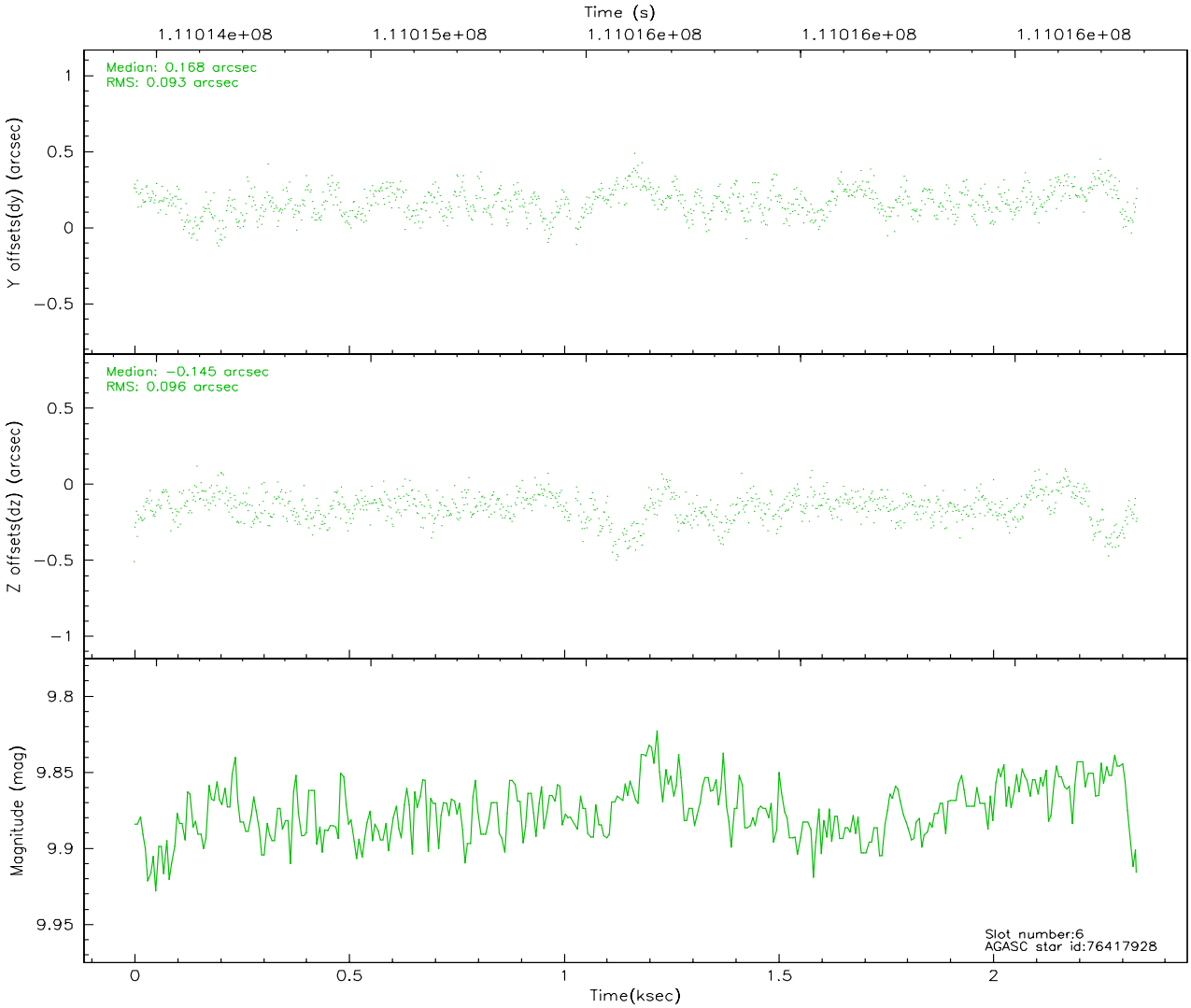

Points outside 0.4 arcsec radius: 0.000%
Radial offset of median: 0.126 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:5
AGASC star id:152188480


Time (s)
1.11014e+08
1.11015e+08
1.11016e+08
1.11016e+08
1.11016e+08
Median: 0.037 arcsec
RMS: 0.045 arcsec
Y offsets(dy) (arcsec)
Median: −0.120 arcsec
RMS: 0.051 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number:5
AGASC star id:152188480
Time(ksec)

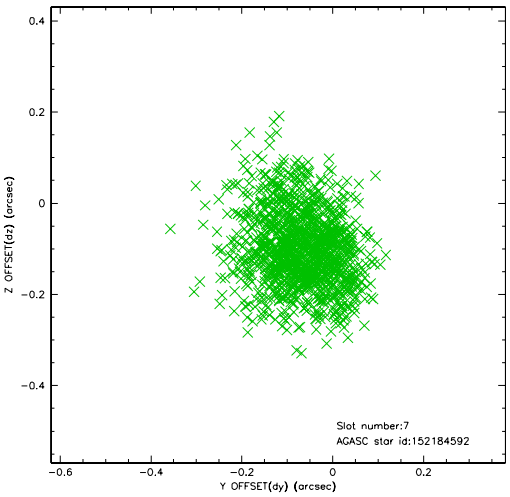
2.4.4 Slot 6

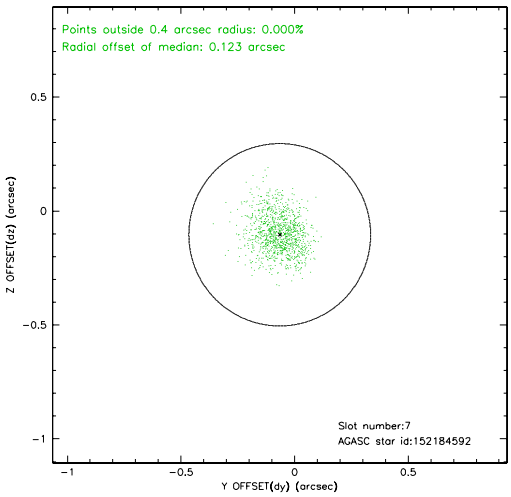

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:6
AGASC star id:76417928

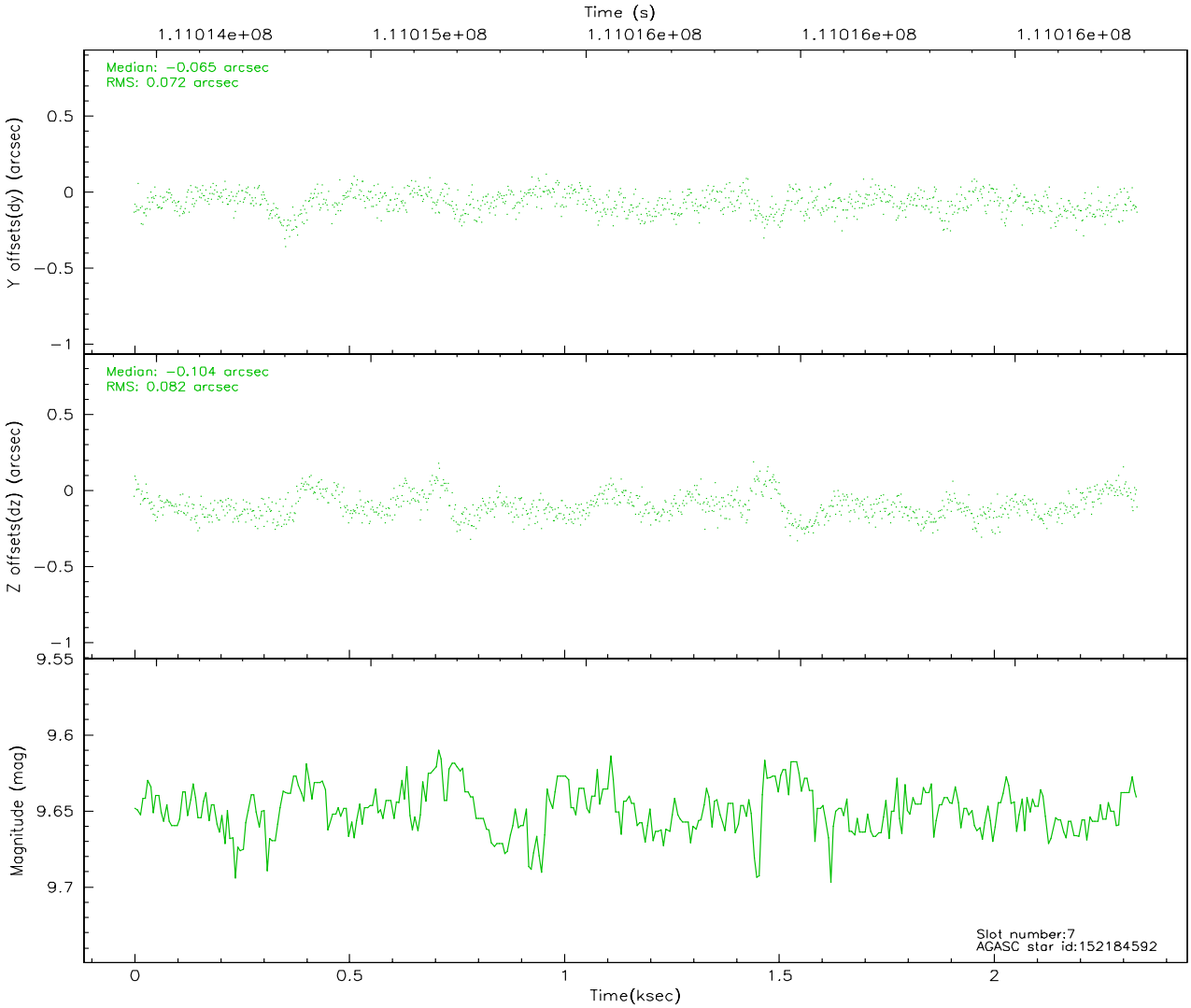

Points outside 0.4 arcsec radius: 0.000%
Radial offset of median: 0.222 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:6
AGASC star id:76417928


Time (s)
1.11014e+08
1.11015e+08
1.11016e+08
1.11016e+08
1.11016e+08
Median: 0.168 arcsec
RMS: 0.093 arcsec
Y offsets(dy) (arcsec)
Median: −0.145 arcsec
RMS: 0.096 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number:6
AGASC star id:76417928
Time(ksec)

2.4.5 Slot 7

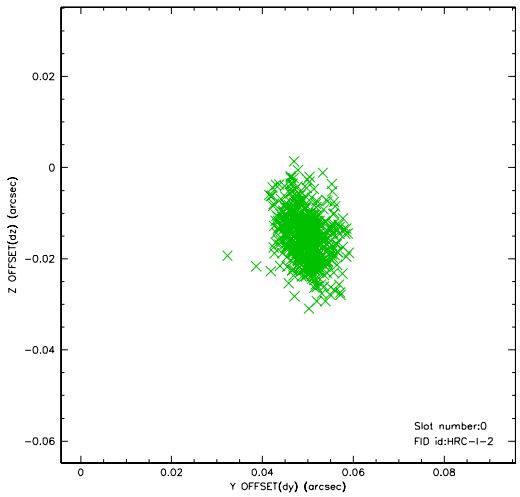

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:7
AGASC star id:152184592

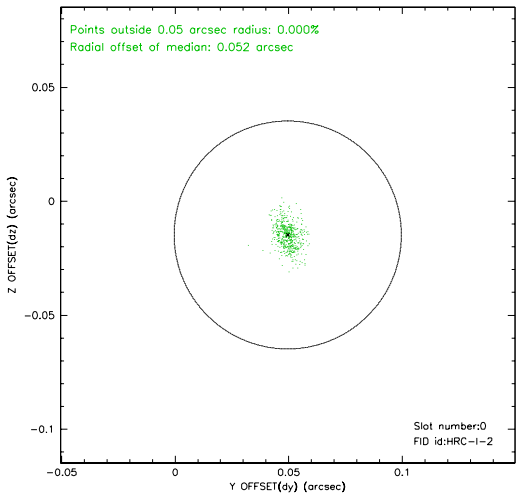

Points outside 0.4 arcsec radius: 0.000%
Radial offset of median: 0.123 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:7
AGASC star id:152184592

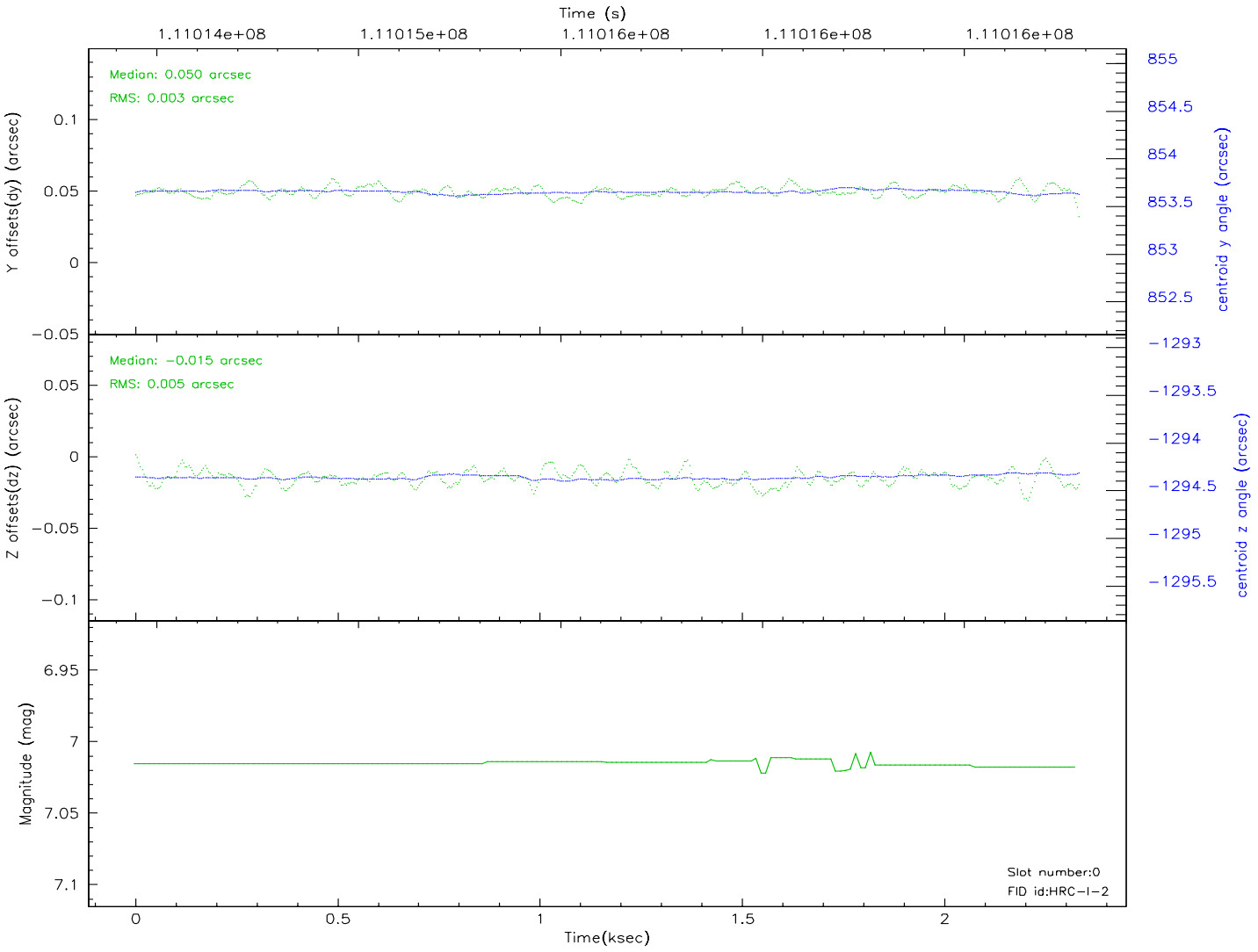

Time (s)
1.11014e+08
1.11015e+08
1.11016e+08
1.11016e+08
1.11016e+08
Median: −0.065 arcsec
RMS: 0.072 arcsec
Y offsets(dy) (arcsec)
Median: −0.104 arcsec
RMS: 0.082 arcsec
Z offsets(dz) (arcsec)
Magnitude (mag)
Slot number:7
AGASC star id:152184592
Time(ksec)

2.5 FID Slots

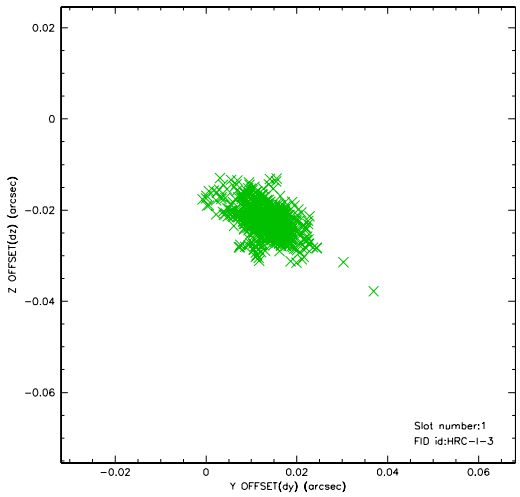
2.5.1 Slot 0

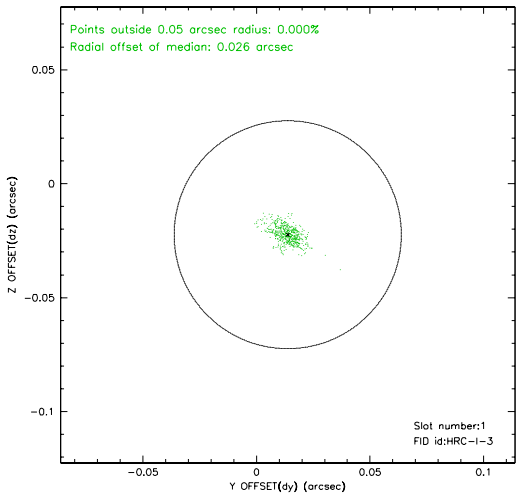


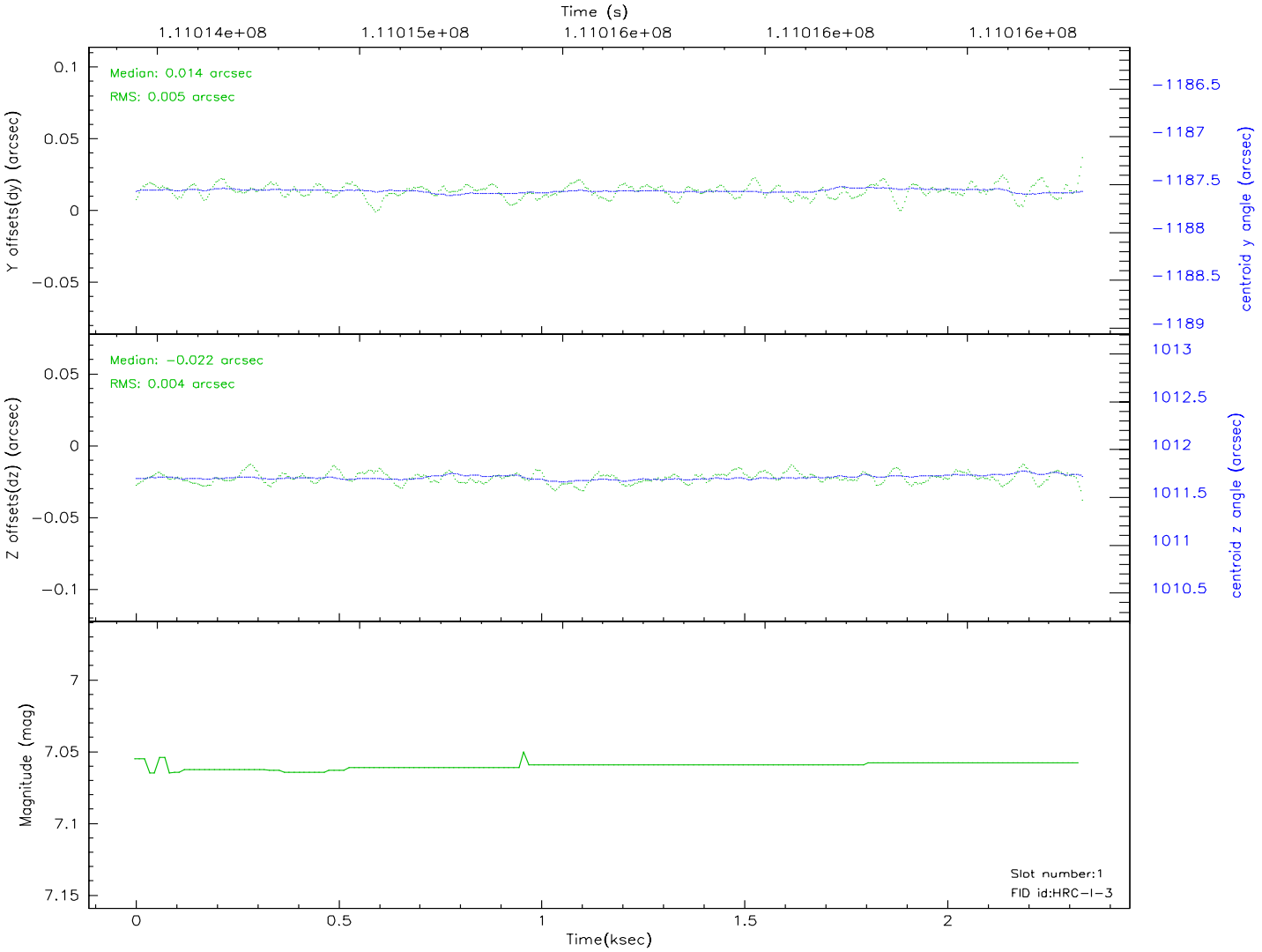




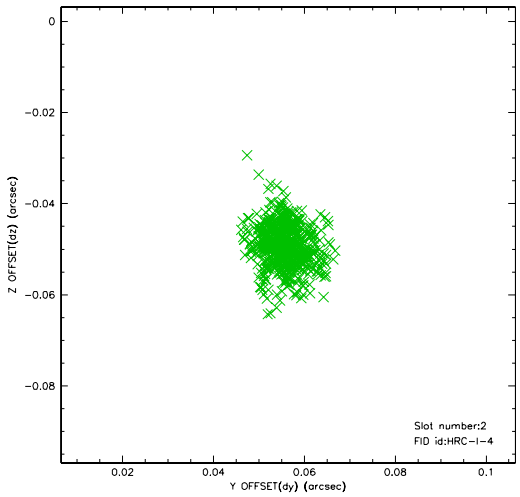
2.5.2 Slot 1

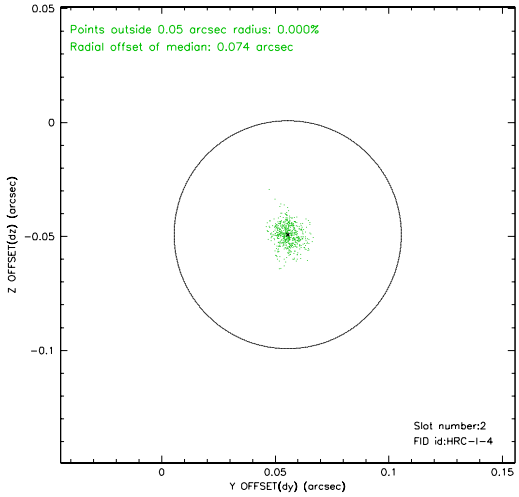

Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:1
FID id:HRC-I-3

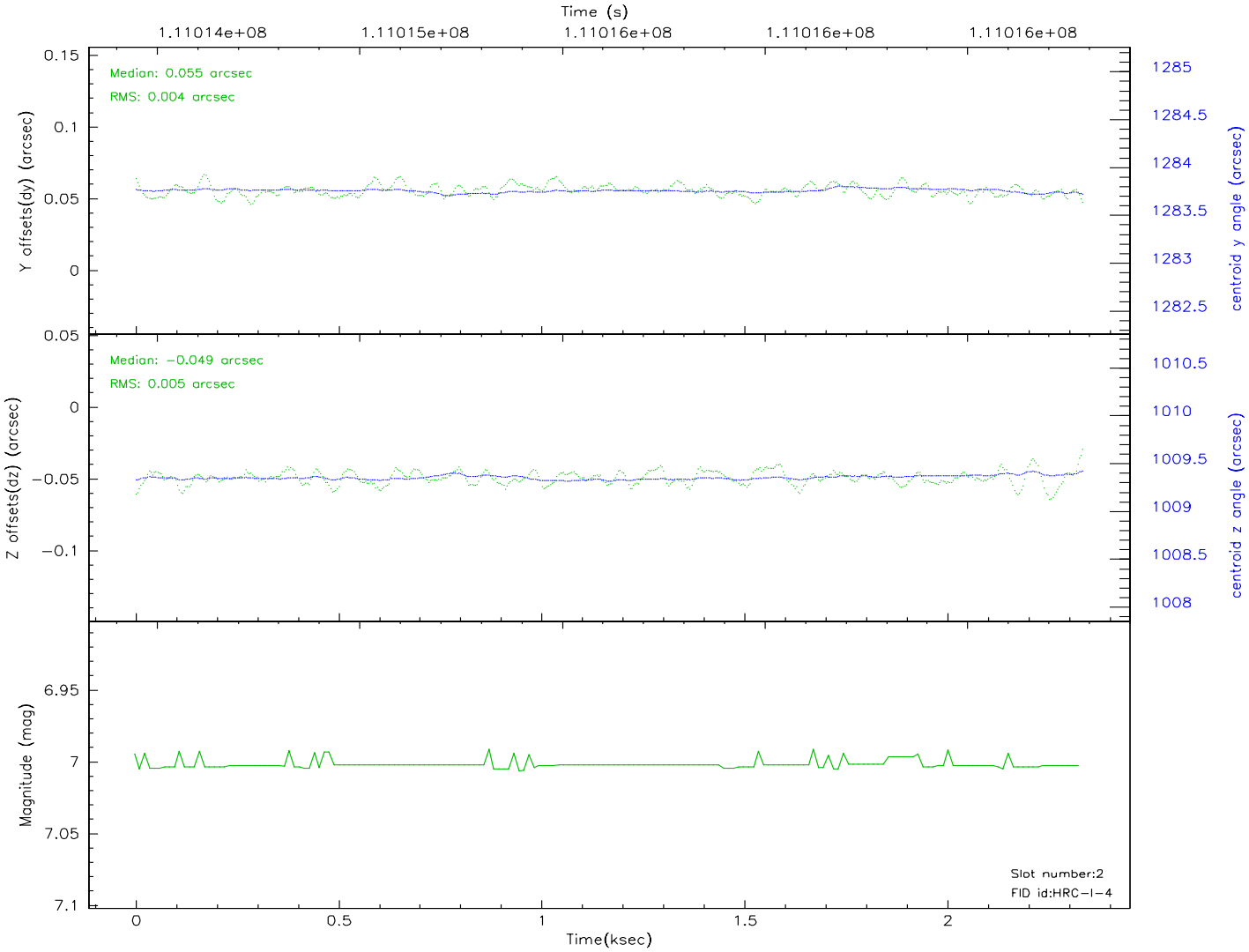

Points outside 0.05 arcsec radius: 0.000%
Radial offset of median: 0.026 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:1
FID id:HRC-I-3


Time (s)
1.11014e+08
1.11015e+08
1.11016e+08
1.11016e+08
1.11016e+08
Median: 0.014 arcsec
RMS: 0.005 arcsec
Y offsets(dy) (arcsec)
centroid y angle (arcsec)
Median: −0.022 arcsec
RMS: 0.004 arcsec
Z offsets(dz) (arcsec)
centroid z angle (arcsec)
Magnitude (mag)
Slot number:1
FID id:HRC-I-3
Time(ksec)

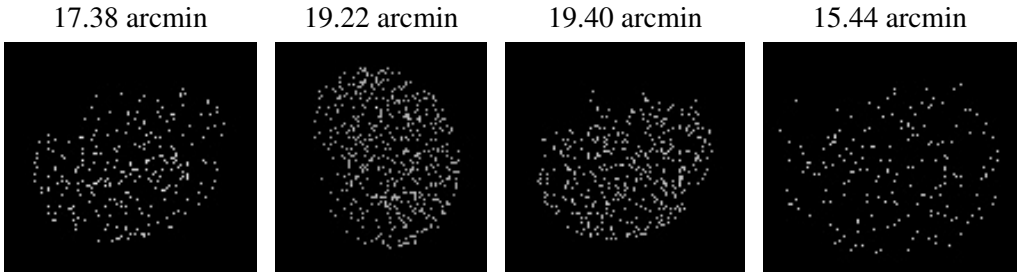
2.5.3 Slot 2


Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:2
FID id:HRC-I-4


Points outside 0.05 arcsec radius: 0.000%
Radial offset of median: 0.074 arcsec
Z OFFSET(dz) (arcsec)
Y OFFSET(dy) (arcsec)
Slot number:2
FID id:HRC-I-4


Time (s)
1.11014e+08
1.11015e+08
1.11016e+08
1.11016e+08
1.11016e+08
Median: 0.055 arcsec
RMS: 0.004 arcsec
Y offsets(dy) (arcsec)
centroid y angle (arcsec)
Median: −0.049 arcsec
RMS: 0.005 arcsec
Z offsets(dz) (arcsec)
centroid z angle (arcsec)
Magnitude (mag)
Slot number:2
FID id:HRC-I-4
Time(ksec)

3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.335

A.2 Comments

```
The current observation has been reprocessed as part of Repro III ('C'
supplement) the purpose of which is to update all HRC-I ObsIDs since Jan
2000 to the latest calibrations available for that configuration.
Specifically, we are updating the DEGAP solution and the Gain Maps
applied. For more information see the Repro IIIC web page at

http://asc.harvard.edu/cda/repro3.html#IIIc

and the associated links.
```