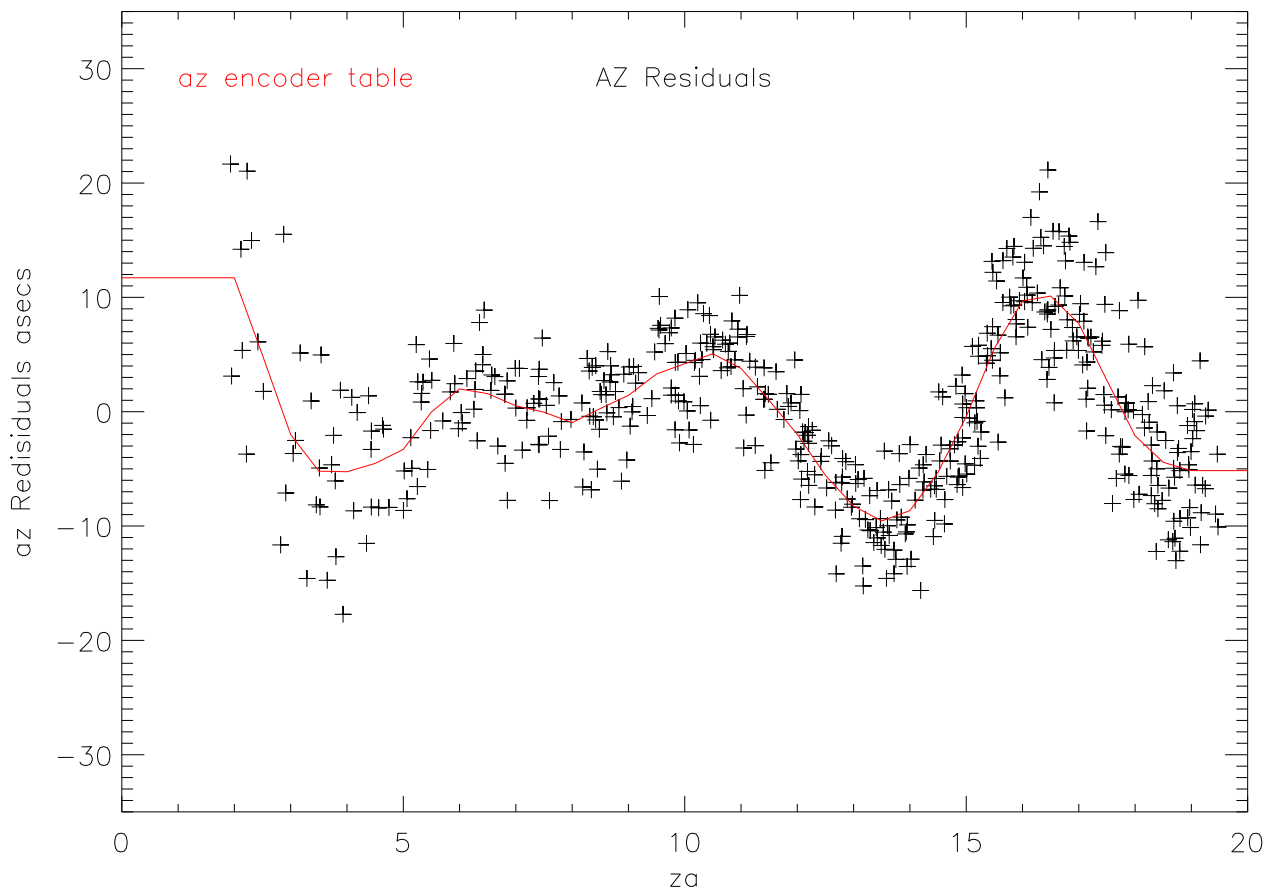
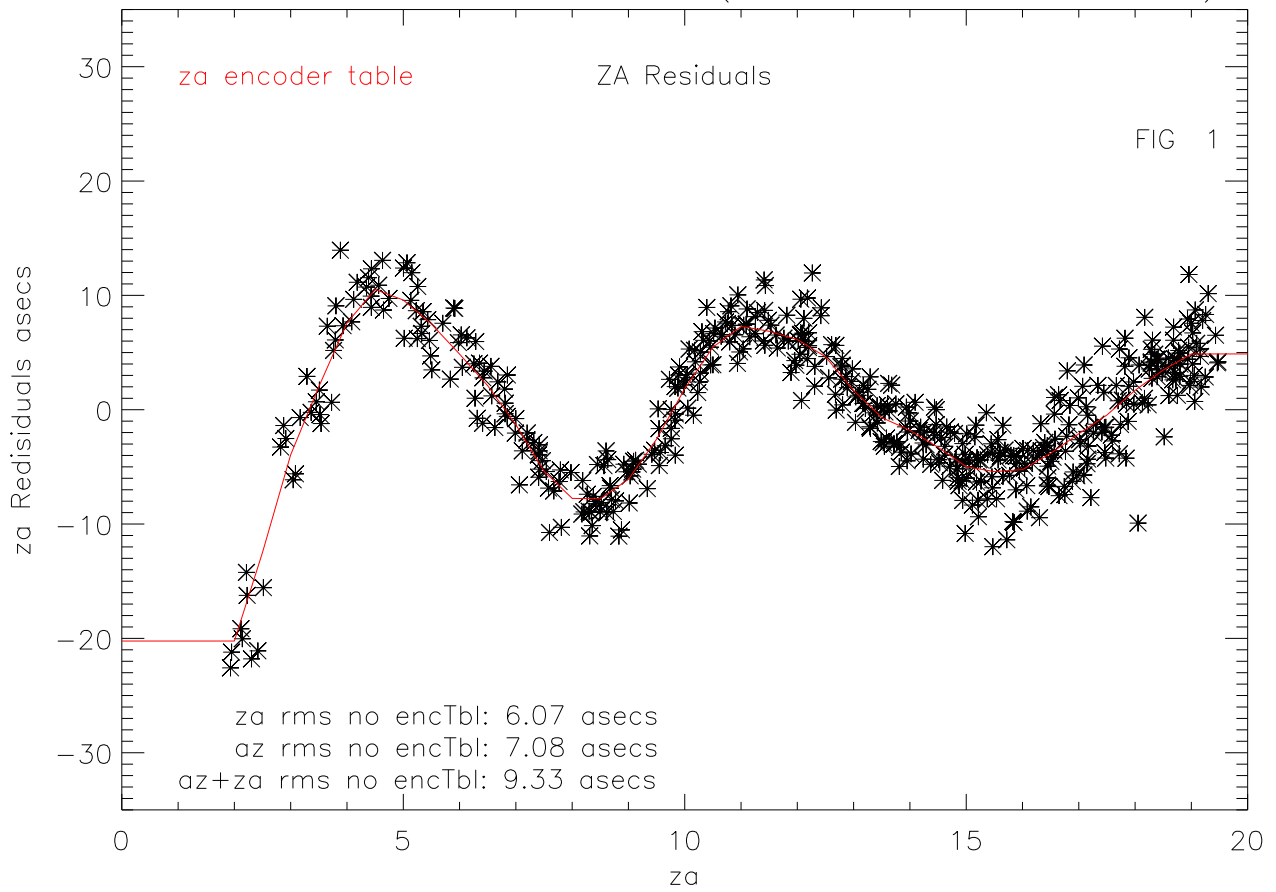
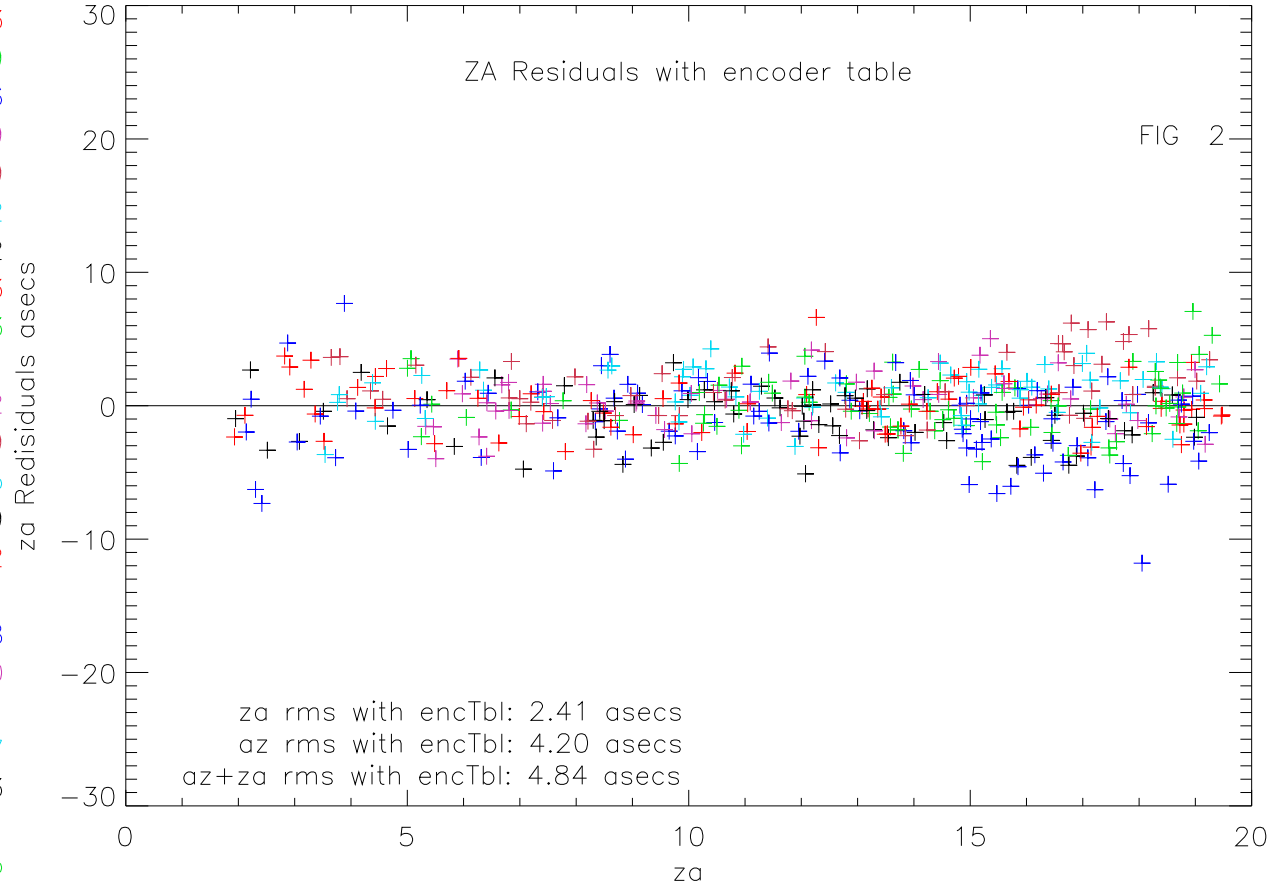


model15 residuals za,az vs za. (encoder table not included)

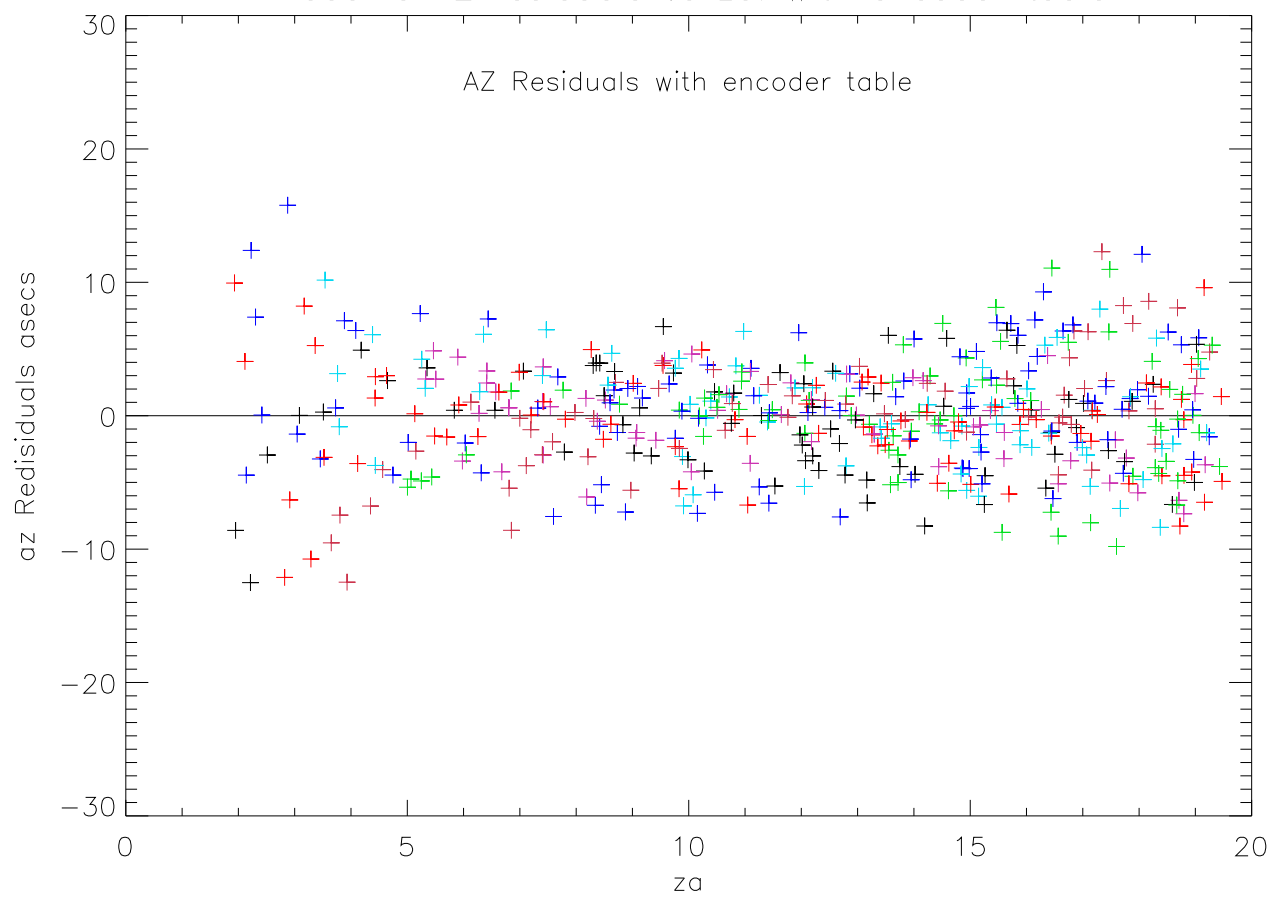


- J1041+027
- J1150-003
- J1326+319
- J1609+266
- J1859+129
- J1006+349
- J1221+282
- J1520+202
- J1745+173
- J2021+233
- J0137+331
- J0840+132
- J1021+219
- J1224+035
- J1445+099
- J1658+052
- J1950+081
- J2251+188
- J1042+120
- J1330+251
- J1540+147
- J1737+063
- J1925+211
- J2052+365
- J2253+161

model15 ZA residuals vs za. with encoder table

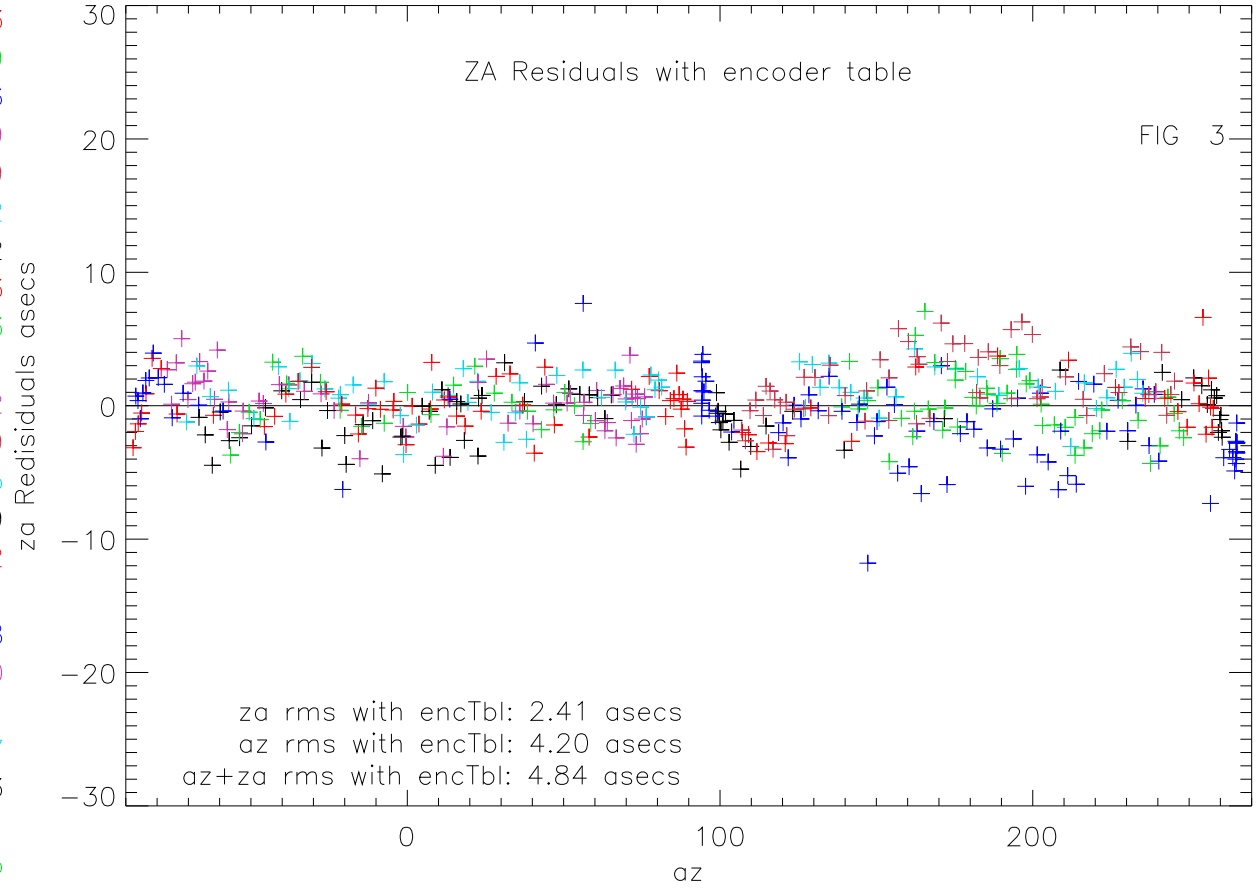


model15 AZ residuals vs za. with encoder table

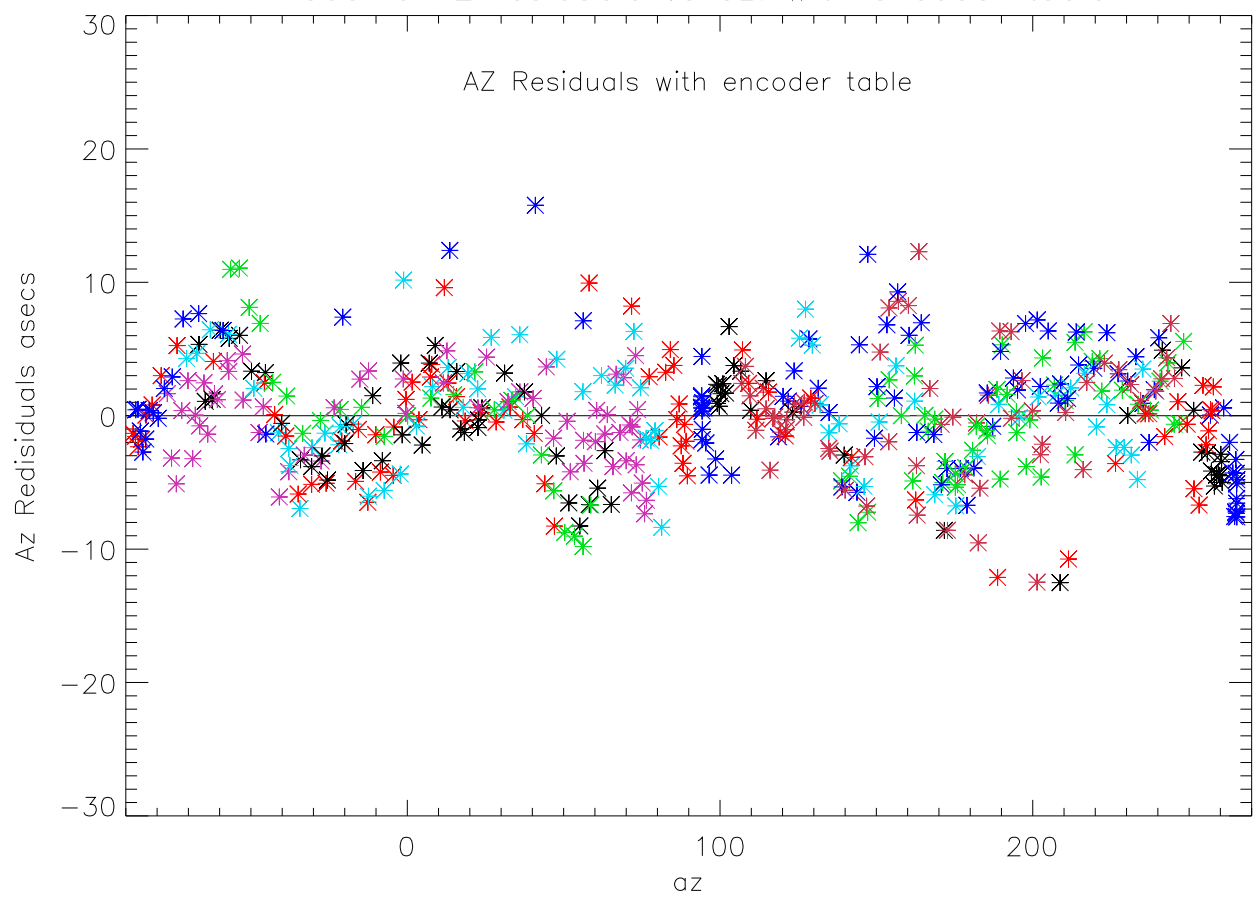


- J1041+027
- J1150-003
- J1326+319
- J1609+266
- J1859+129
- J1006+349
- J1221+282
- J1520+202
- J1745+173
- J2021+233
- J0137+331
- J0840+132
- J1021+219
- J1224+035
- J1445+099
- J1658+052
- J1950+081
- J2251+188
- J1042+120
- J1330+251
- J1540+147
- J1737+063
- J1925+211
- J2052+365
- J2253+161

model15 ZA residuals vs az. with encoder table

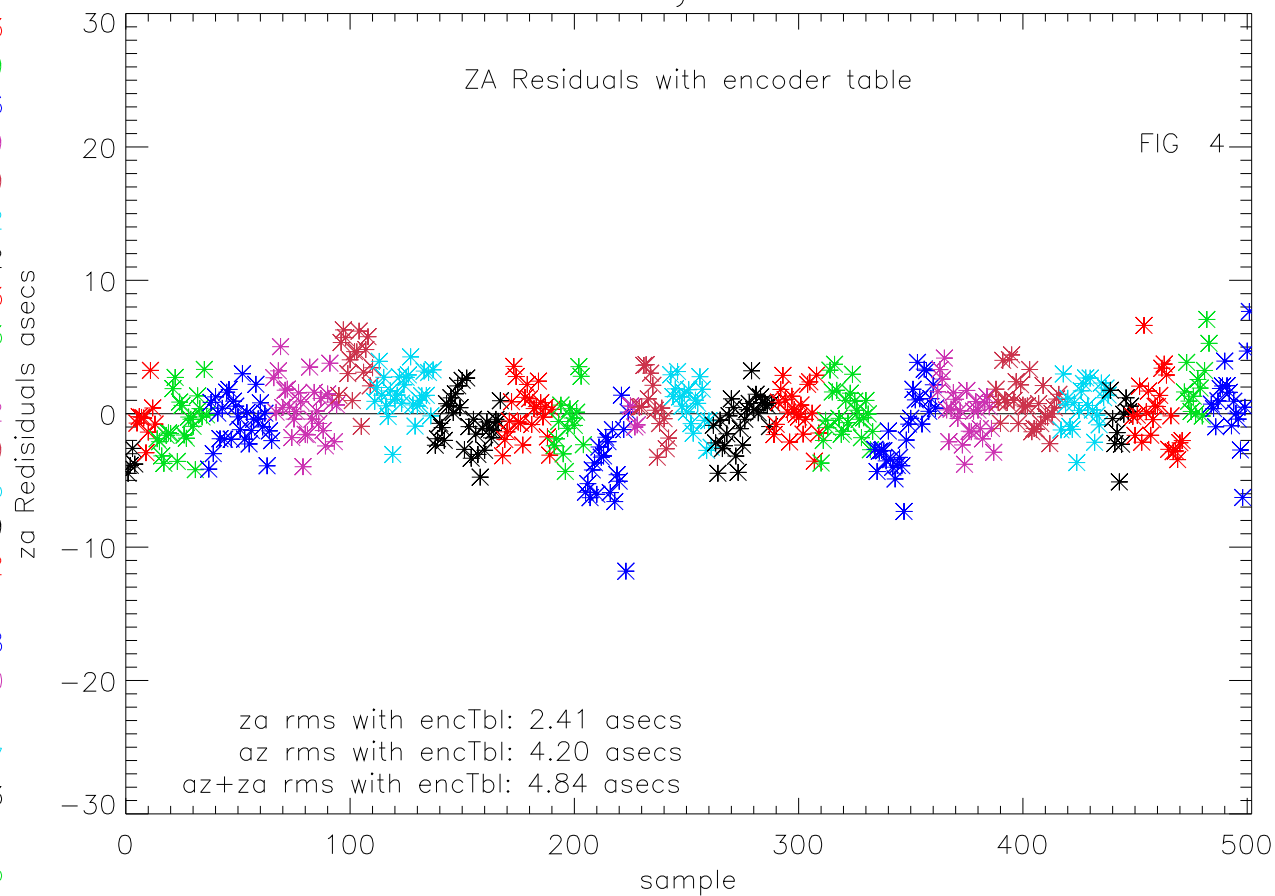


model15 AZ residuals vs az. with encoder table

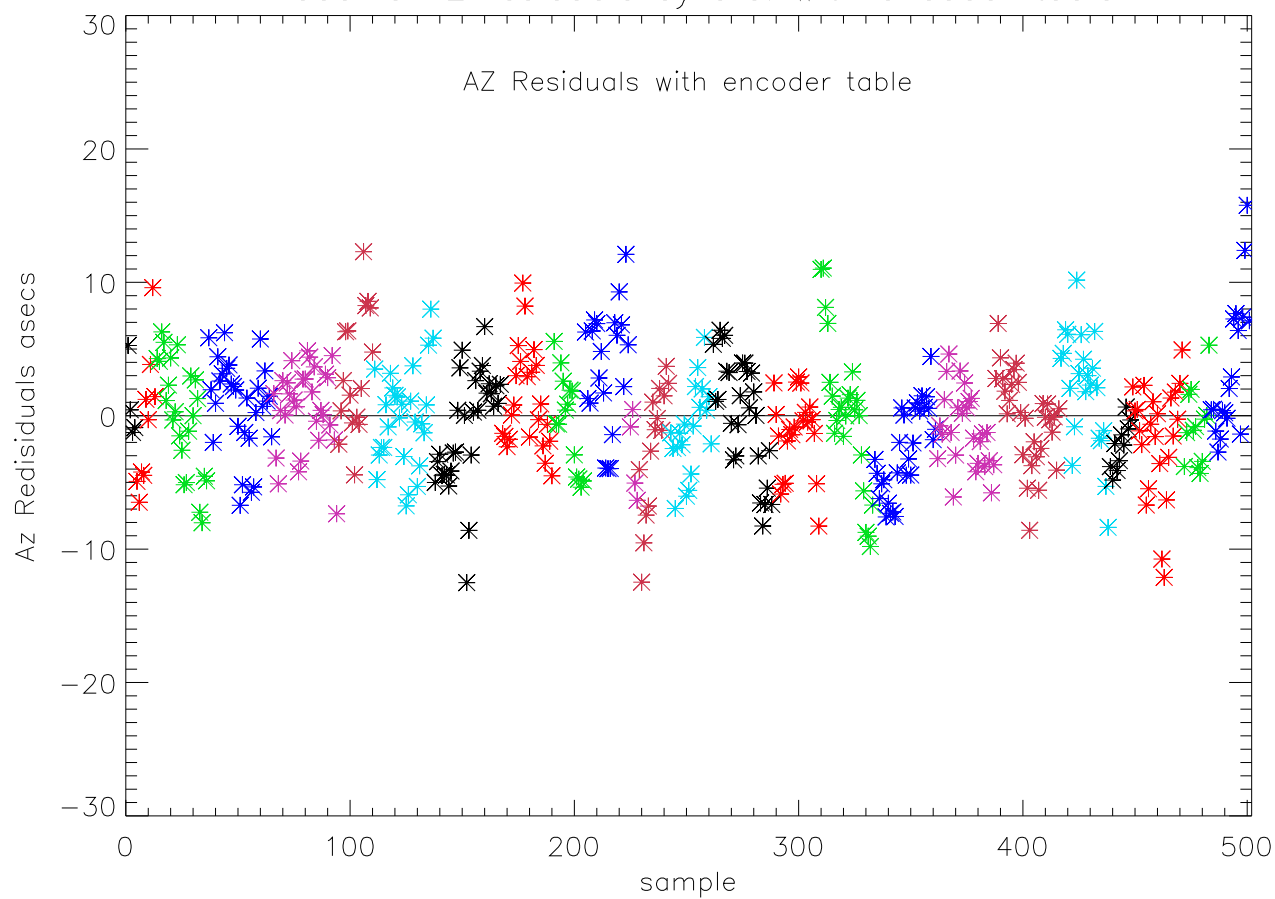


- J1041+027
- J1150-003
- J1326+319
- J1609+266
- J1859+129
- J1006+349
- J1221+282
- J1520+202
- J1745+173
- J2021+233
- J0137+331
- J0840+132
- J1021+219
- J1224+035
- J1445+099
- J1658+052
- J1950+081
- J2251+188
- J1042+120
- J1330+251
- J1540+147
- J1737+063
- J1925+211
- J2052+365
- J2253+161

model15 ZA residuals by src. with encoder table

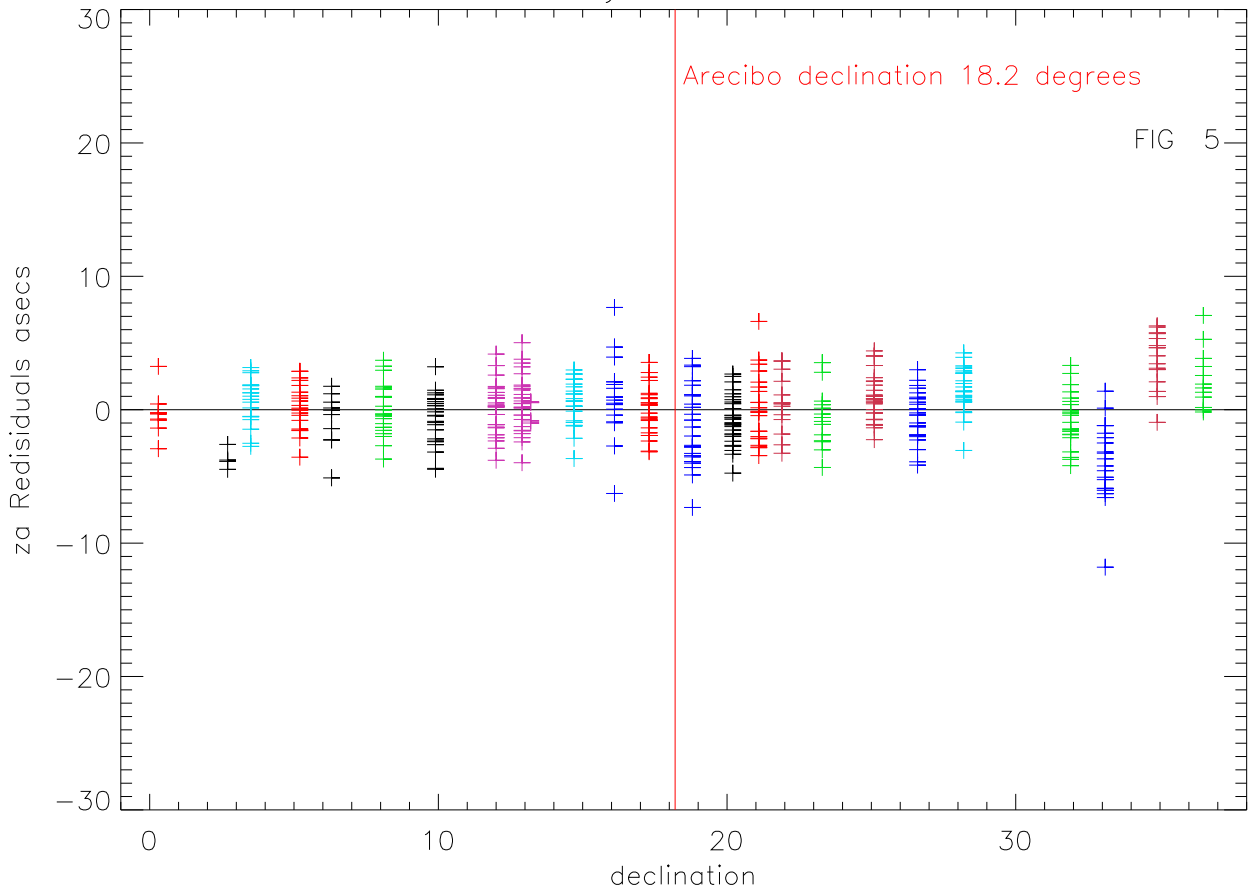


model15 AZ residuals by src. with encoder table

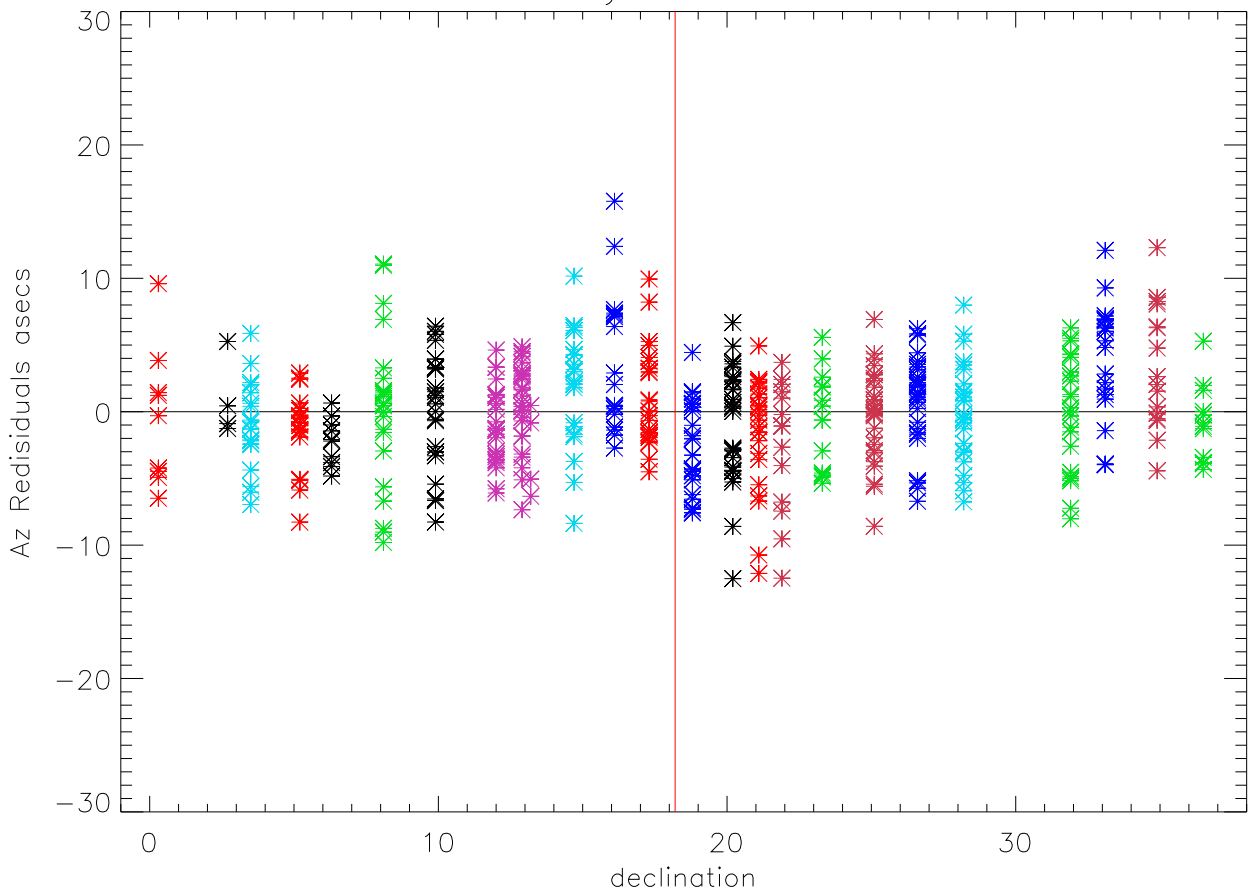


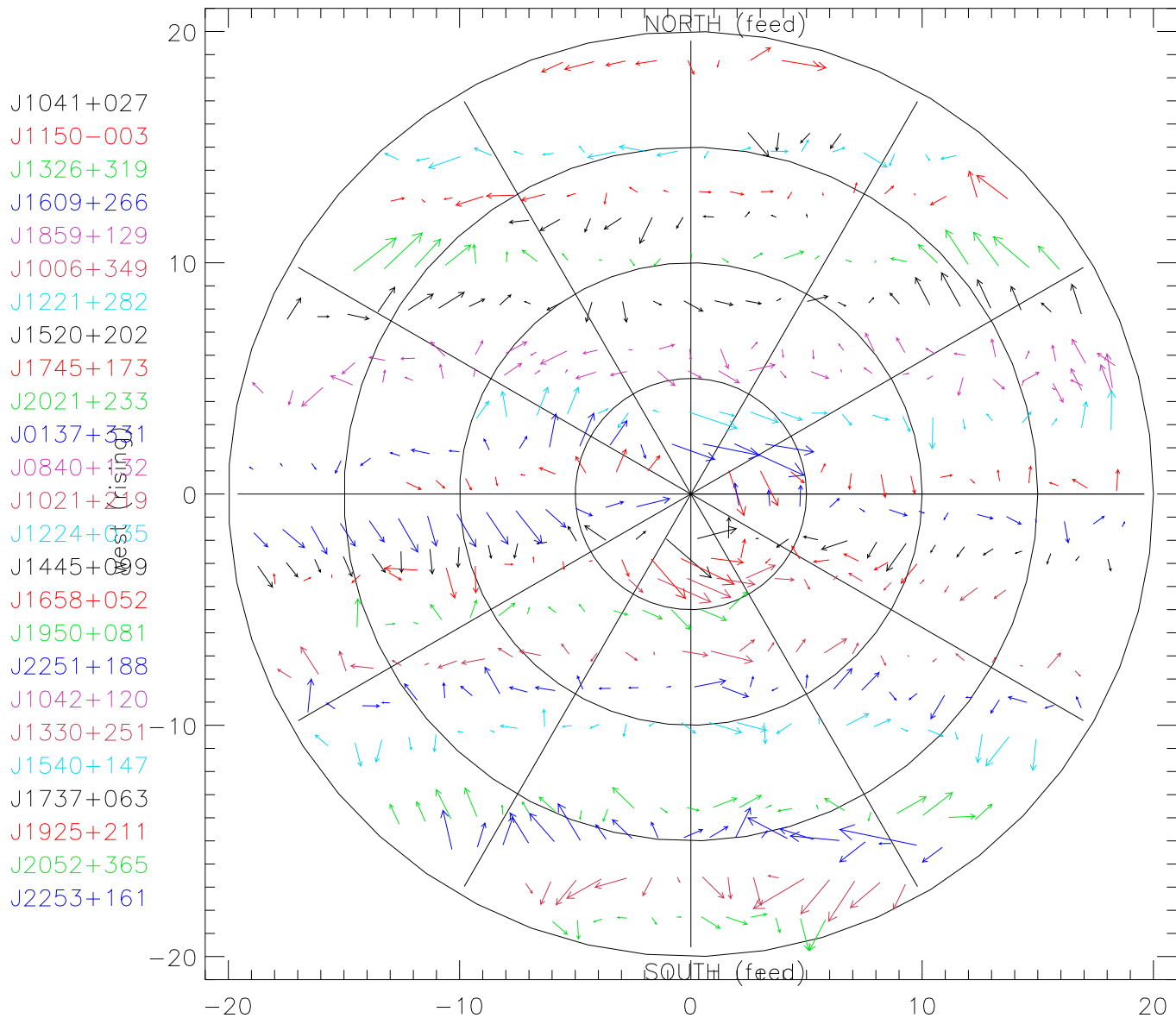
- J1041+027
- J1150-003
- J1326+319
- J1609+266
- J1859+129
- J1006+349
- J1221+282
- J1520+202
- J1745+173
- J2021+233
- J0137+331
- J0840+132
- J1021+219
- J1224+035
- J1445+099
- J1658+052
- J1950+081
- J2251+188
- J1042+120
- J1330+251
- J1540+147
- J1737+063
- J1925+211
- J2052+365
- J2253+161

model15 ZA residuals by declination. with encoder table



model15 AZ residuals by declination. with encoder table





- J1041+027
- J1150-003
- J1326+319
- J1609+266
- J1859+129
- J1006+349
- J1221+282
- J1520+202
- J1745+173
- J2021+233
- J0137+331
- J0840+132
- J1021+219
- J1224+035
- J1445+039
- J1658+052
- J1950+081
- J2251+188
- J1042+120
- J1330+251
- J1540+147
- J1737+063
- J1925+211
- J2052+365
- J2253+161

model 15 residuals errors [asecs] with encoder table vs az,za

1 div= 5.00Asecs

errors each 5.0deg

za	max	avg	rms
all	16.9	4.1	2.6
5	16.5	6.6	3.8
10	9.2	3.5	1.9
15	8.4	3.2	1.8
20	16.9	4.7	2.7

az	za	model coefficients
-40.00	-102.55	constant
-6.05	-95.56	cos(az)
92.35	-4.13	sin(az)
-731.21	141.69	sin(za)
-1013.97	677.51	sin(za)**2
-24.53	-10.41	cos(3az)
-11.19	-7.71	sin(3az)
9.18	-10.39	sin(za-balance)*cos(3az)
106.04	0.08	sin(za-balance)*sin(3az)
3.02	0.43	cos(2az)
-1.74	-0.62	sin(2az)
-3.46	0.03	cos(6az)
1.29	-0.36	sin(6az)

npts	chisqaz	chisqza	rmsAz	rmsZa	rmsTot	
501	25091.3	18446.7	7.08	6.07	9.33	model
			4.20	2.41	4.84	model + encTable