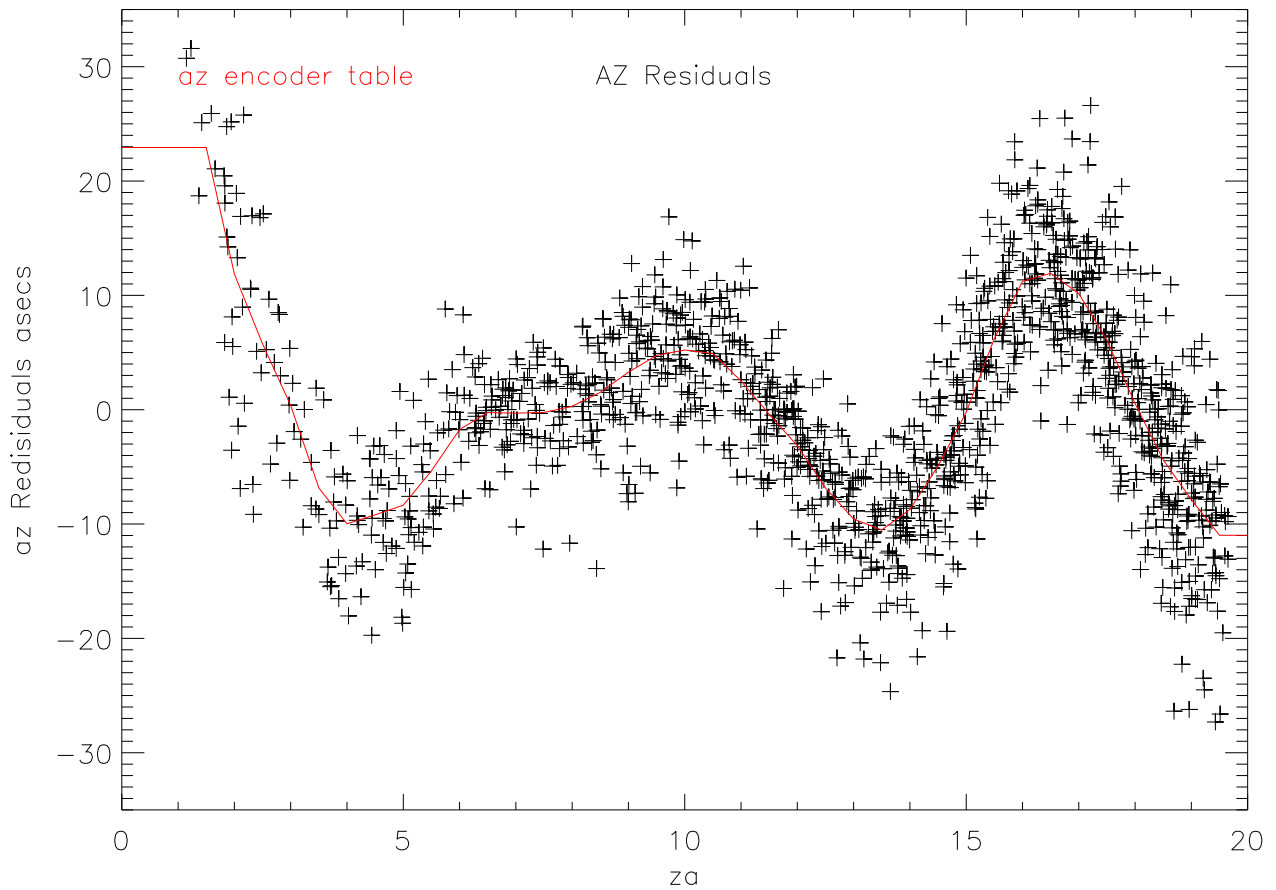
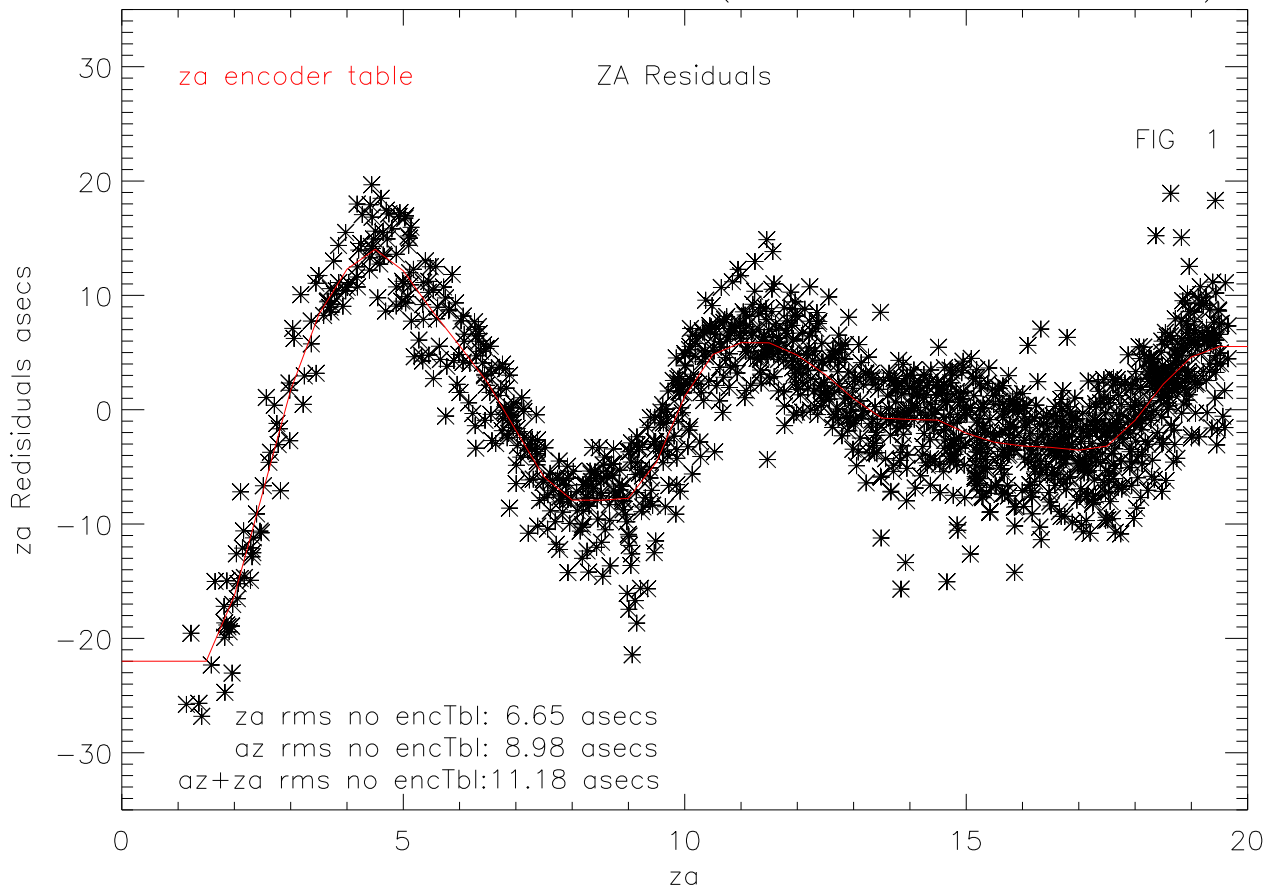
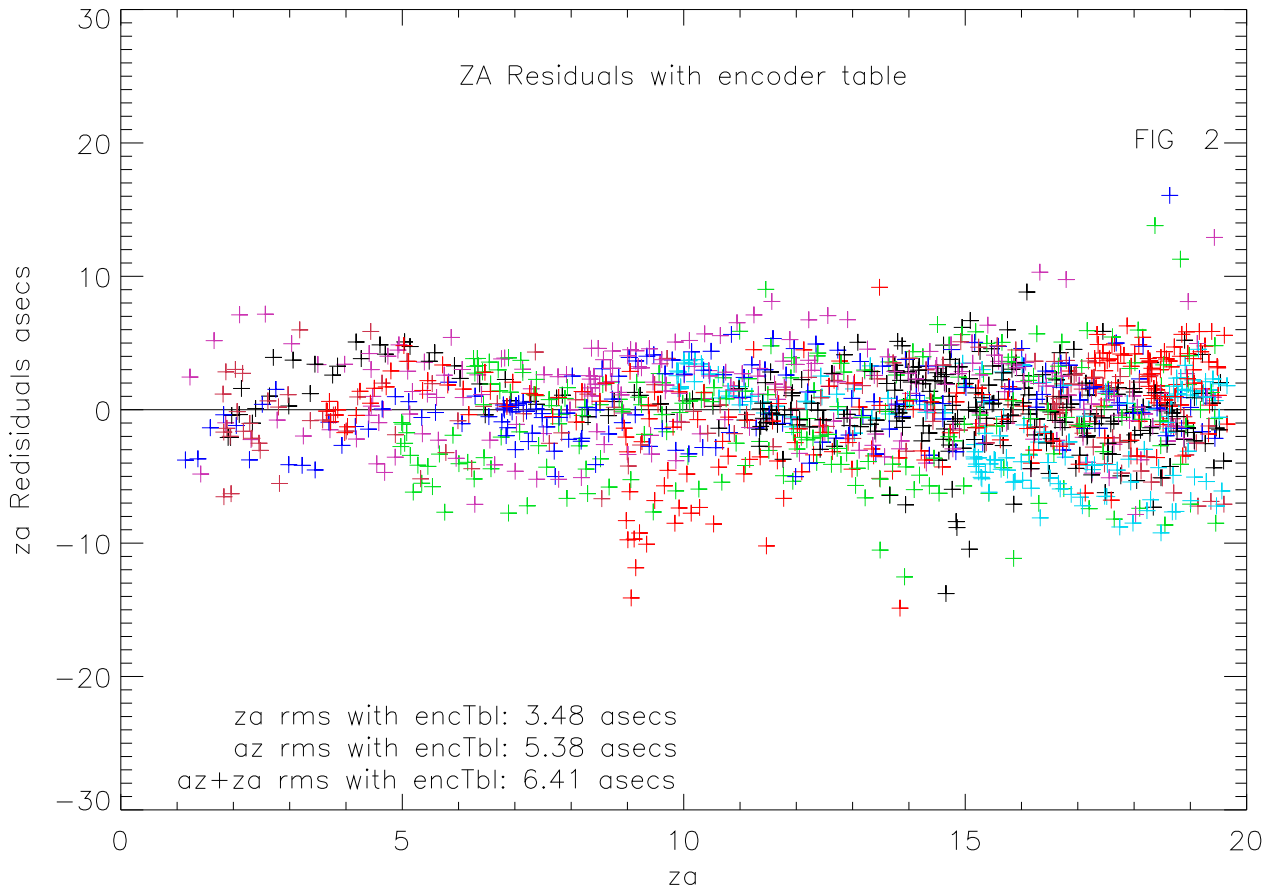


model14 residuals za,az vs za. (encoder table not included)

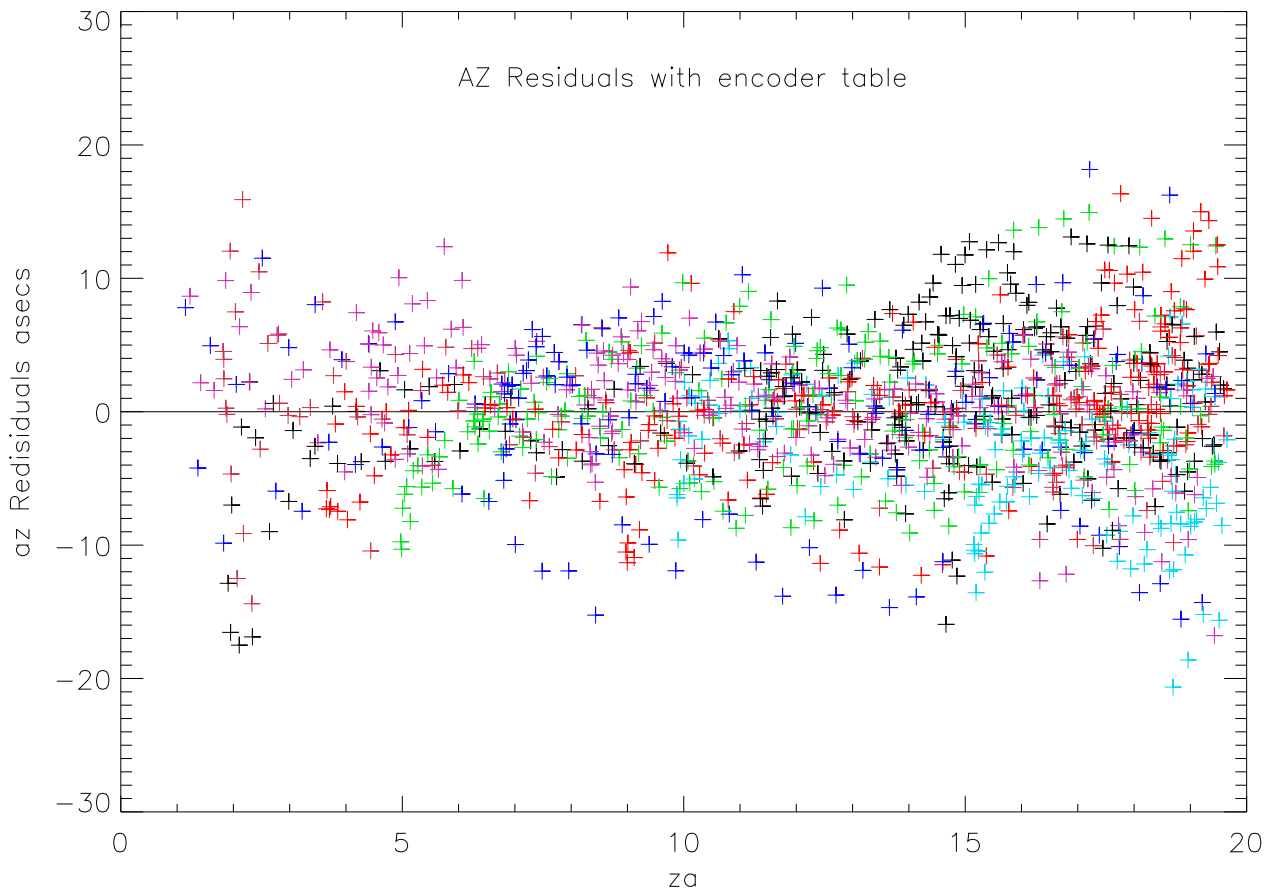


- J2101+036
- J2312+093
- J0204+152
- J0502+061
- J0738+177
- J1006+349
- J1221+282
- J1520+202
- J1804+010
- J2021+233
- J2251+188
- J0141+138
- J0318+164
- J0442-002
- J0624+320
- J0815+365
- J1042+120
- J1330+251
- J1609+266
- J1831+291
- J1924+334
- J2148+069
- J0603+219
- J0804+302

model14 ZA residuals vs za. with encoder table

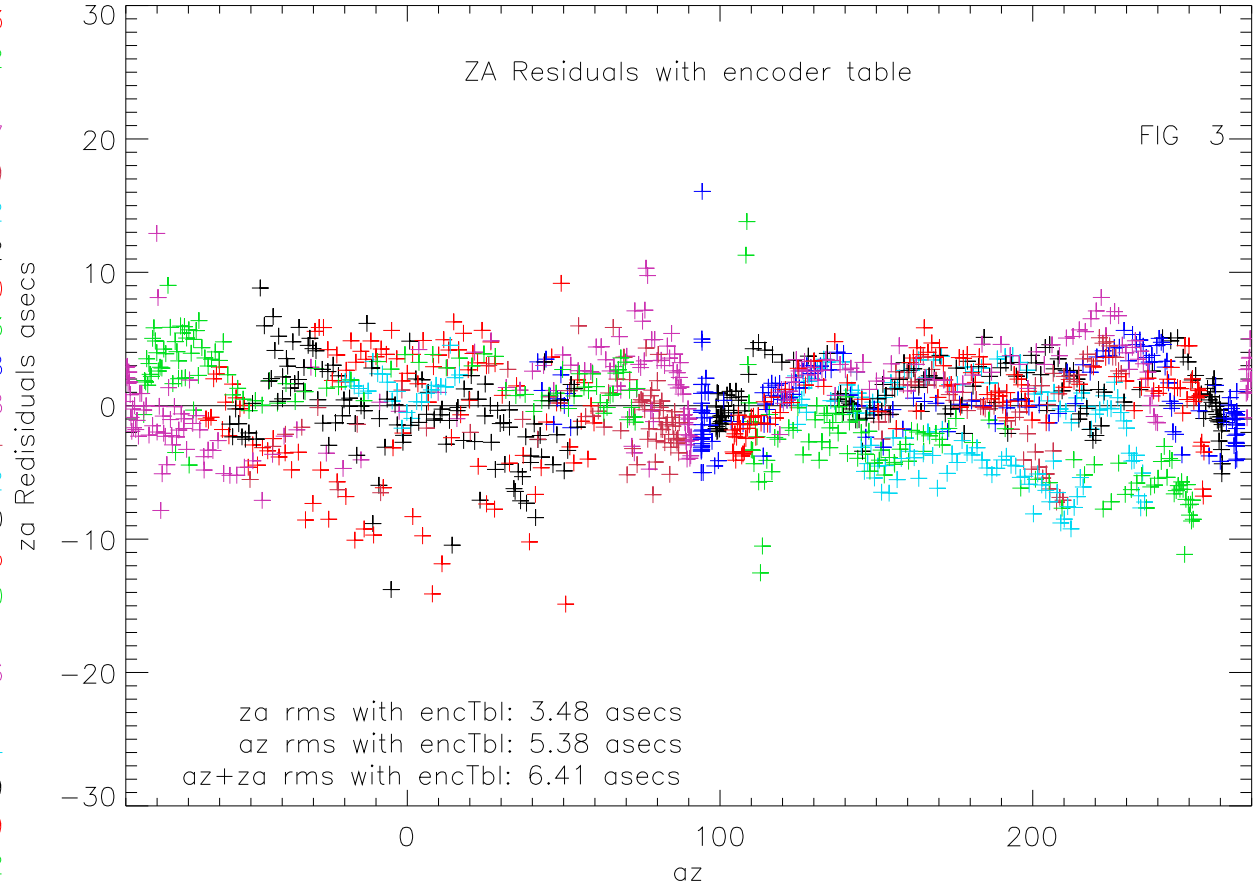


model14 AZ residuals vs za. with encoder table

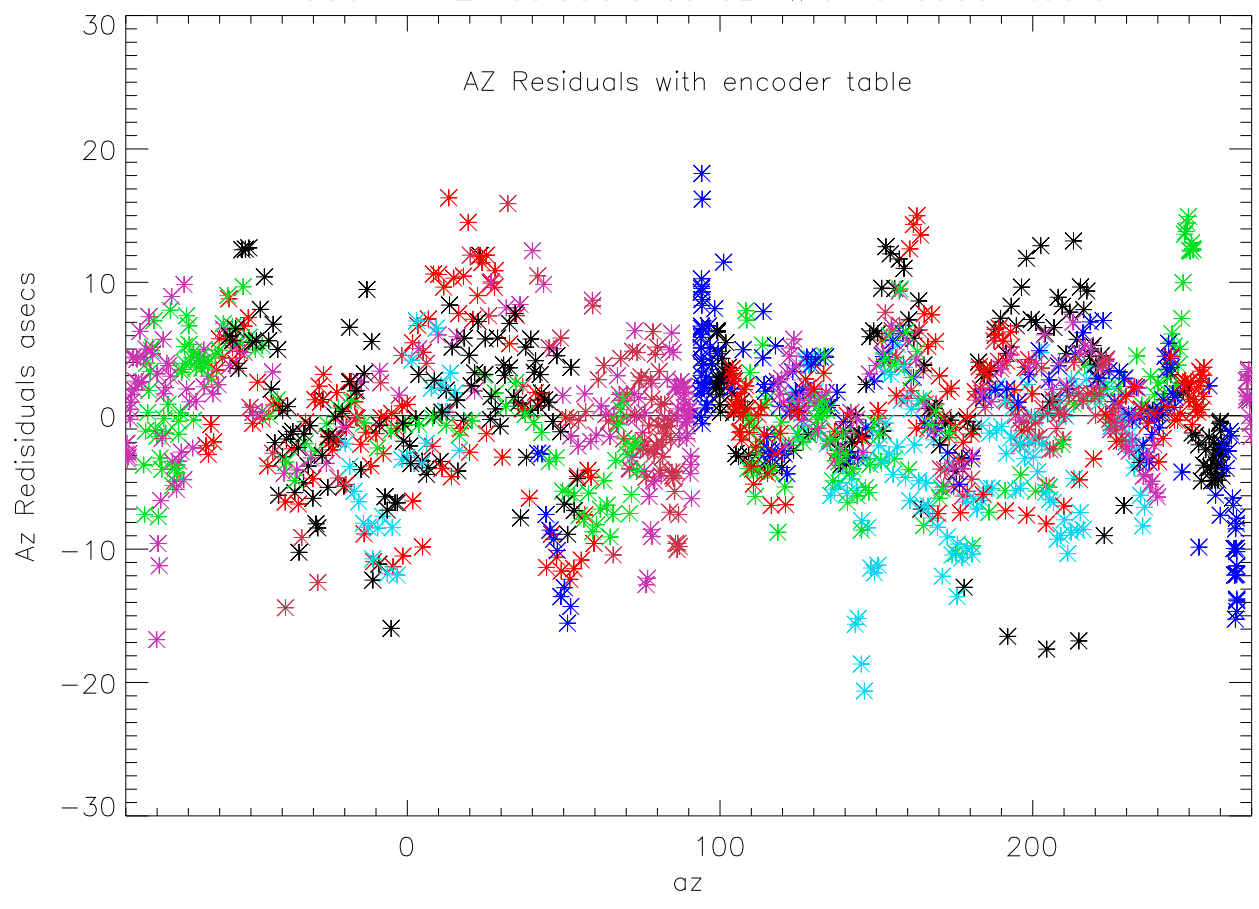


- J2101+036
- J2312+093
- J0204+152
- J0502+061
- J0738+177
- J1006+349
- J1221+282
- J1520+202
- J1804+010
- J2021+233
- J2251+188
- J0141+138
- J0318+164
- J0442-002
- J0624+320
- J0815+365
- J1042+120
- J1330+251
- J1609+266
- J1831+291
- J1924+334
- J2148+069
- J0603+219
- J0804+302

model14 ZA residuals vs az. with encoder table

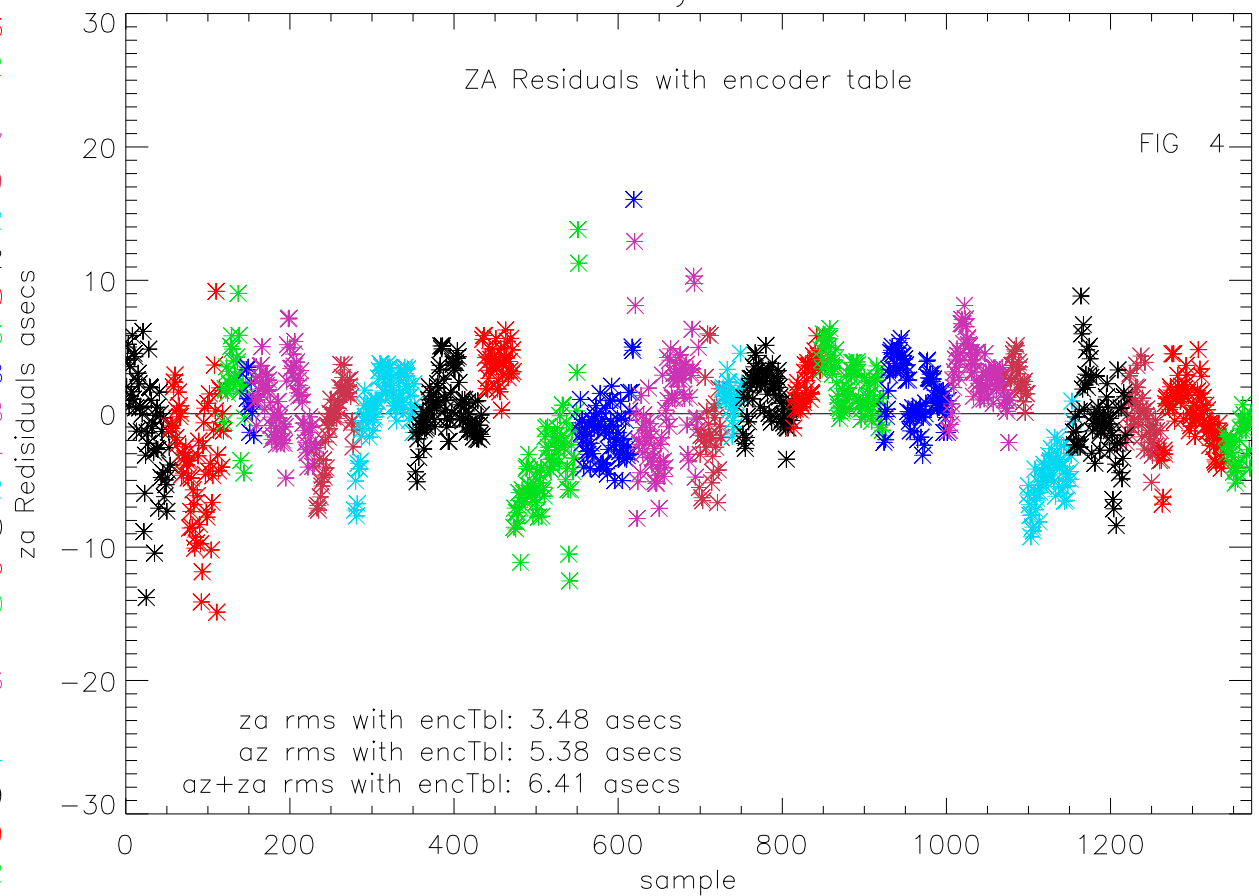


model14 AZ residuals vs az. with encoder table

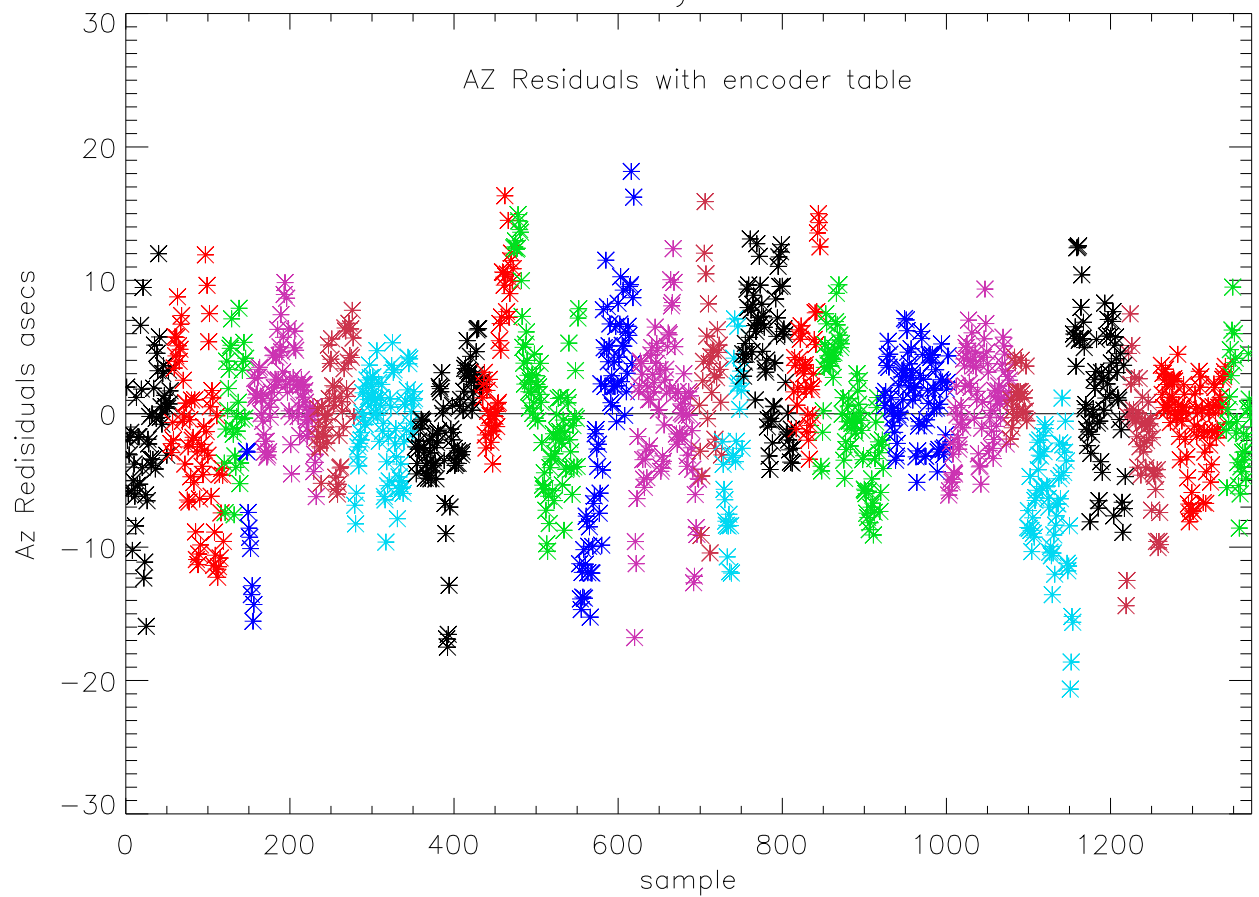


- J2101+036
- J2312+093
- J0204+152
- J0502+061
- J0738+177
- J1006+349
- J1221+282
- J1520+202
- J1804+010
- J2021+233
- J2251+188
- J0141+138
- J0318+164
- J0442-002
- J0624+320
- J0815+365
- J1042+120
- J1330+251
- J1609+266
- J1831+291
- J1924+334
- J2148+069
- J0603+219
- J0804+302

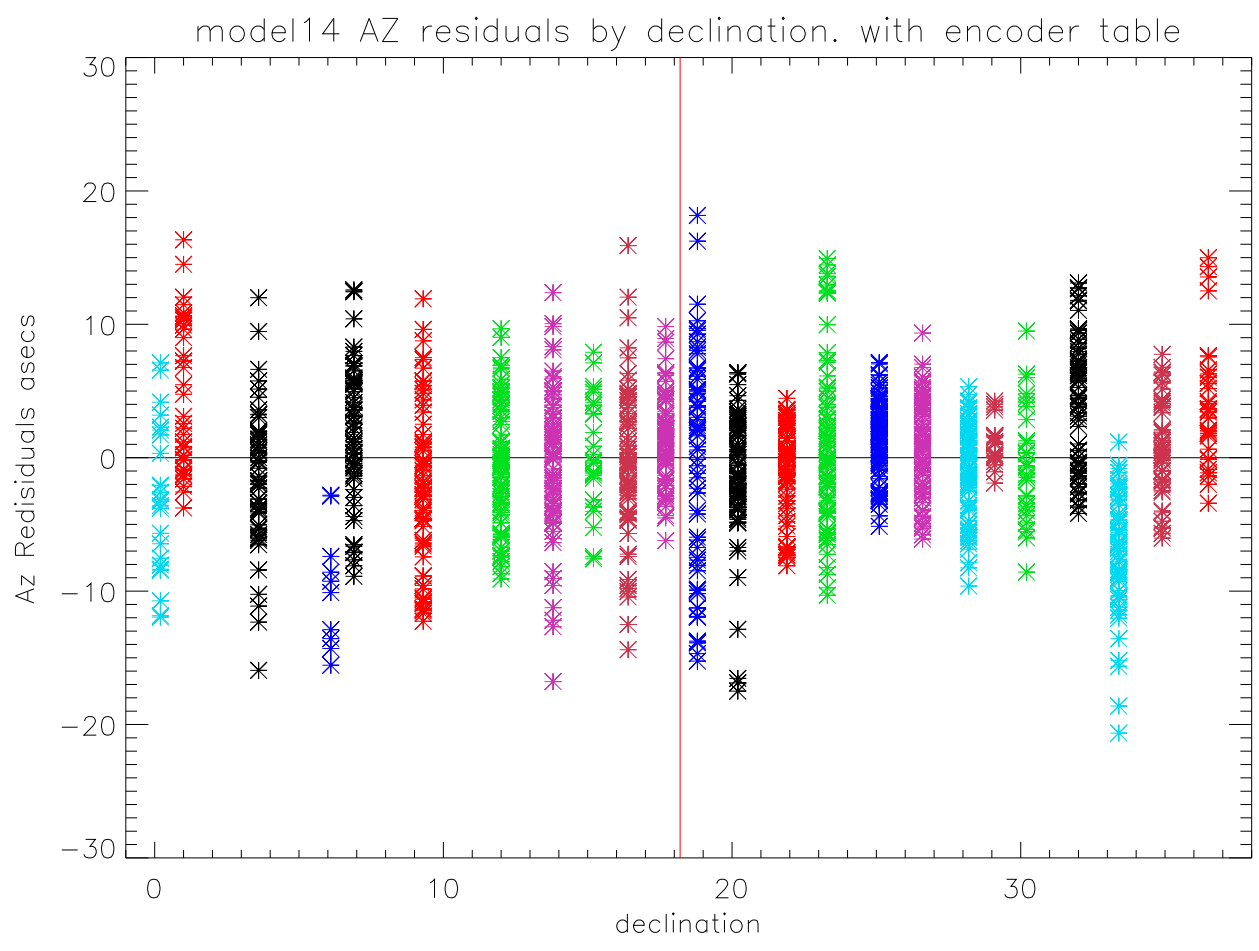
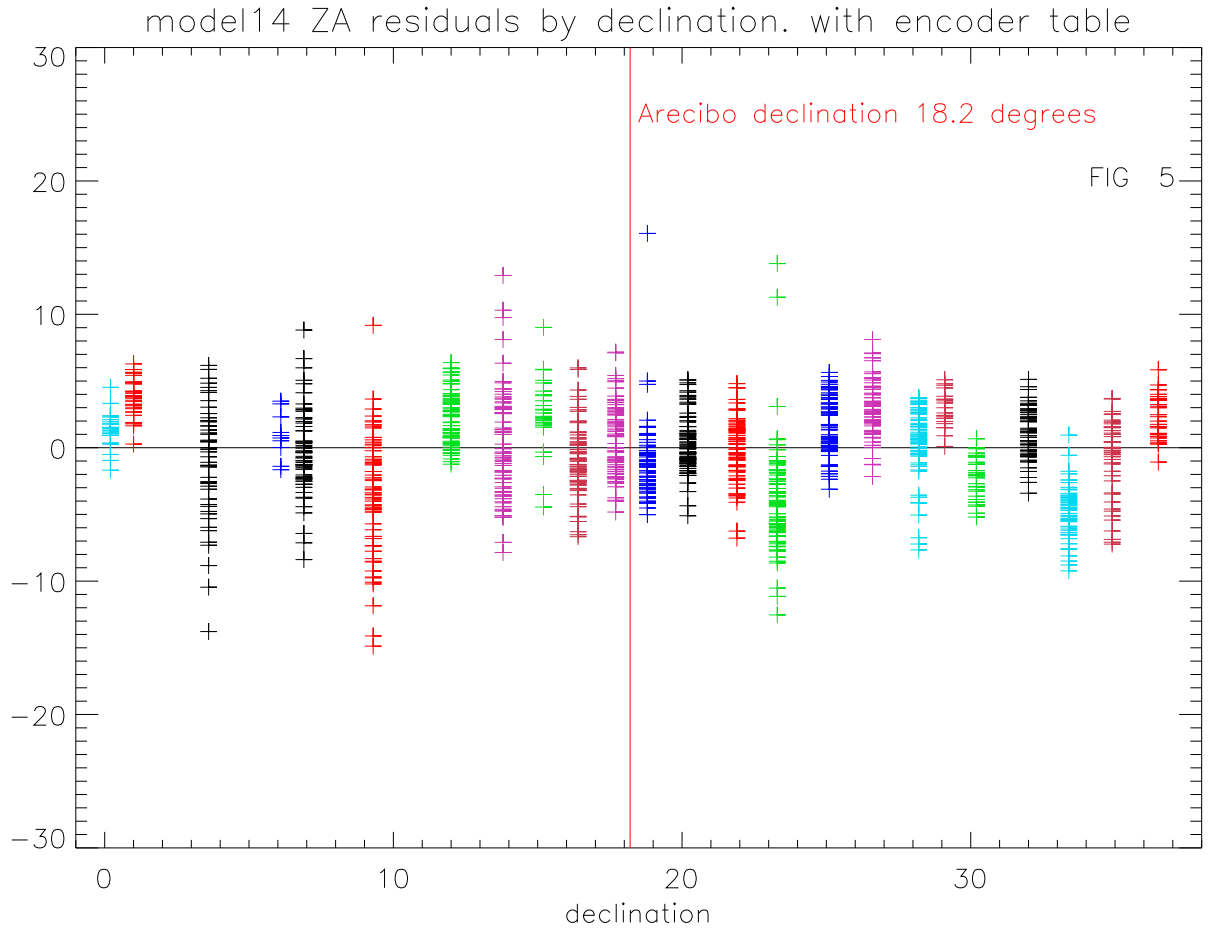
model14 ZA residuals by src. with encoder table

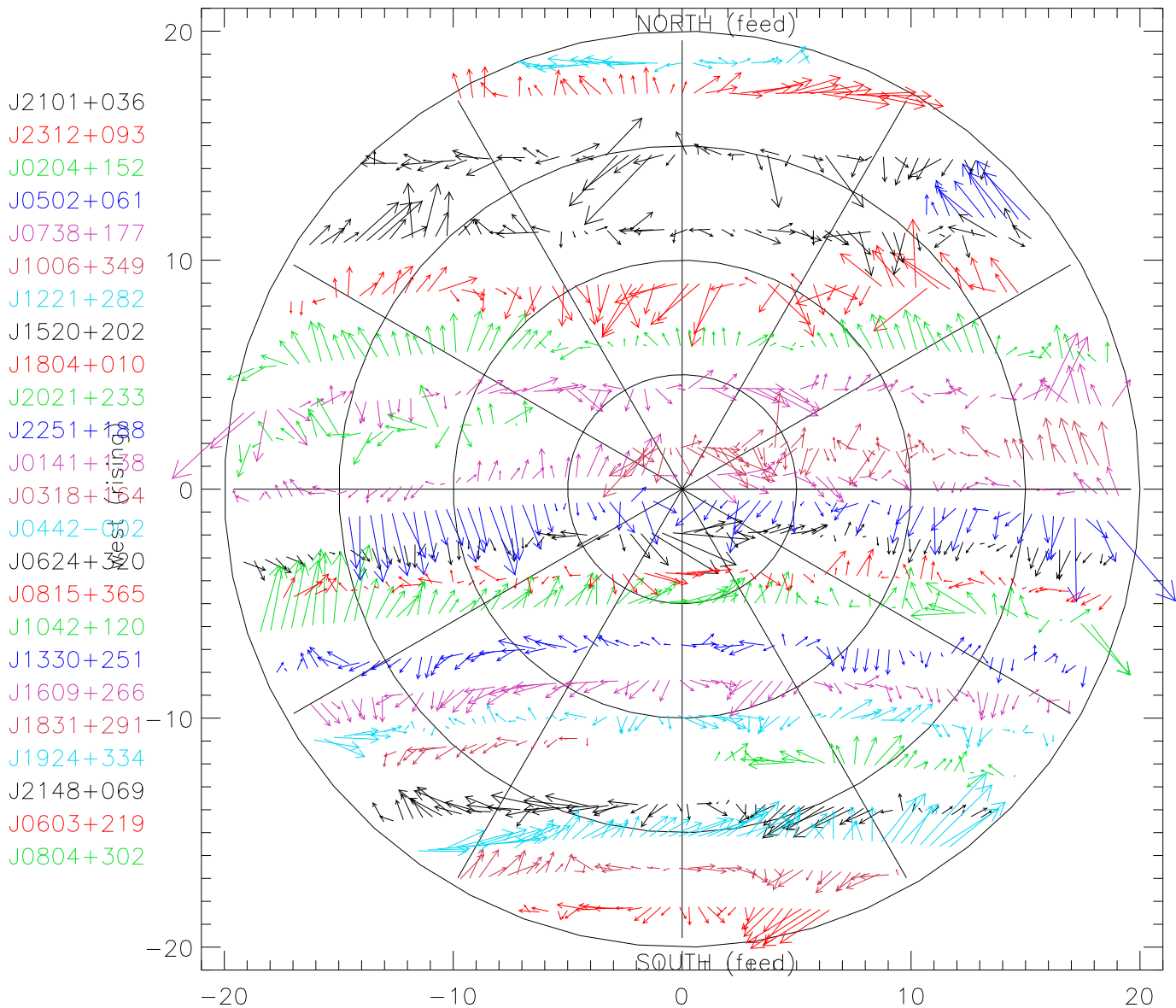


model14 AZ residuals by src. with encoder table



- J2101+036
- J2312+093
- J0204+152
- J0502+061
- J0738+177
- J1006+349
- J1221+282
- J1520+202
- J1804+010
- J2021+233
- J2251+188
- J0141+138
- J0318+164
- J0442-002
- J0624+320
- J0815+365
- J1042+120
- J1330+251
- J1609+266
- J1831+291
- J1924+334
- J2148+069
- J0603+219
- J0804+302





- J2101+036
- J2312+093
- J0204+152
- J0502+061
- J0738+177
- J1006+349
- J1221+282
- J1520+202
- J1804+010
- J2021+233
- J2251+118
- J0141+118
- J0318+114
- J0442-012
- J0624+110
- J0815+365
- J1042+120
- J1330+251
- J1609+266
- J1831+291
- J1924+334
- J2148+069
- J0603+219
- J0804+302

model 14 residuals errors [asecs] with encoder table vs az,za

1 div= 5.00Asecs

errors each 5.0deg

za	max	avg	rms
all	22.8	5.4	3.4
5	17.5	6.2	3.6
10	15.8	4.7	2.8
15	21.1	5.0	3.0
20	22.8	6.0	3.8

az	za	model coefficients
-38.81	-79.26	constant
-6.41	-100.92	cos(az)
99.16	-5.74	sin(az)
-713.84	175.81	sin(za)
-1028.24	489.81	sin(za)**2
-22.20	-11.42	cos(3az)
-12.08	-7.80	sin(3az)
7.31	4.00	sin(za-balance)*cos(3az)
111.56	1.25	sin(za-balance)*sin(3az)
2.49	0.43	cos(2az)
-0.69	-0.42	sin(2az)
-1.93	-0.30	cos(6az)
0.91	-0.19	sin(6az)

npts	chisqaz	chisqza	rmsAz	rmsZa	rmsTot	
1371	*****	60609.9	8.98	6.65	11.18	model
			5.38	3.48	6.41	model + encTable