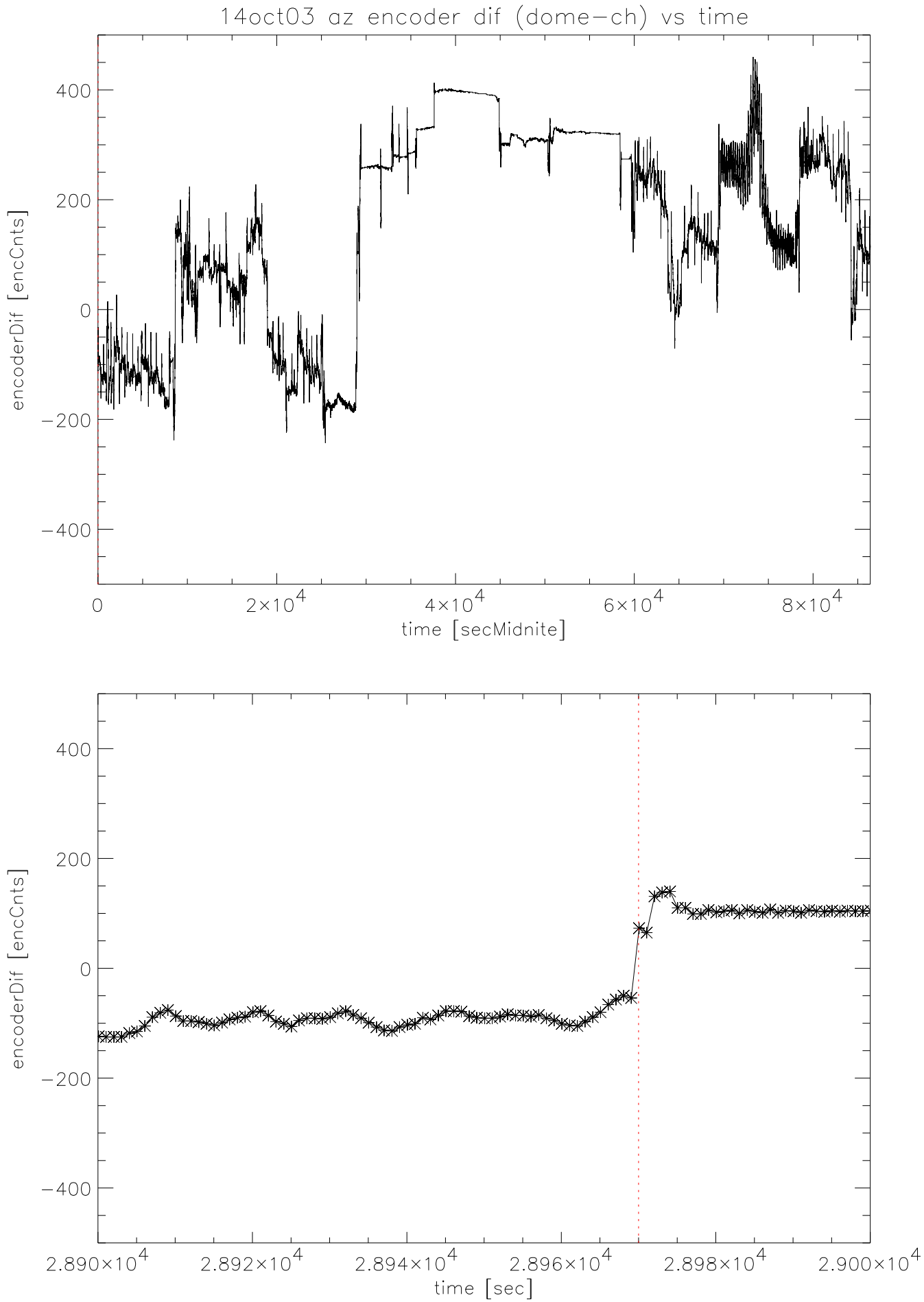
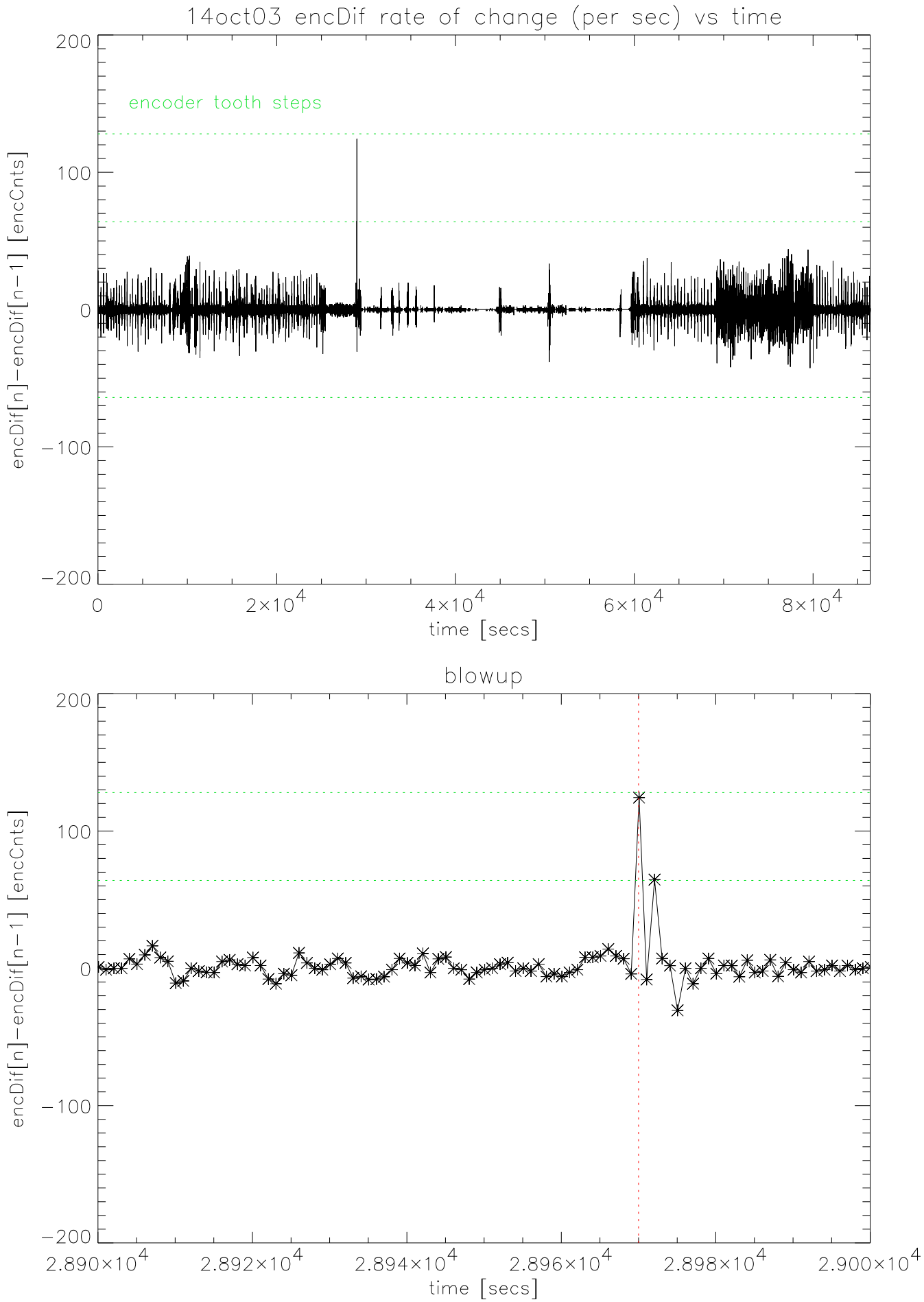
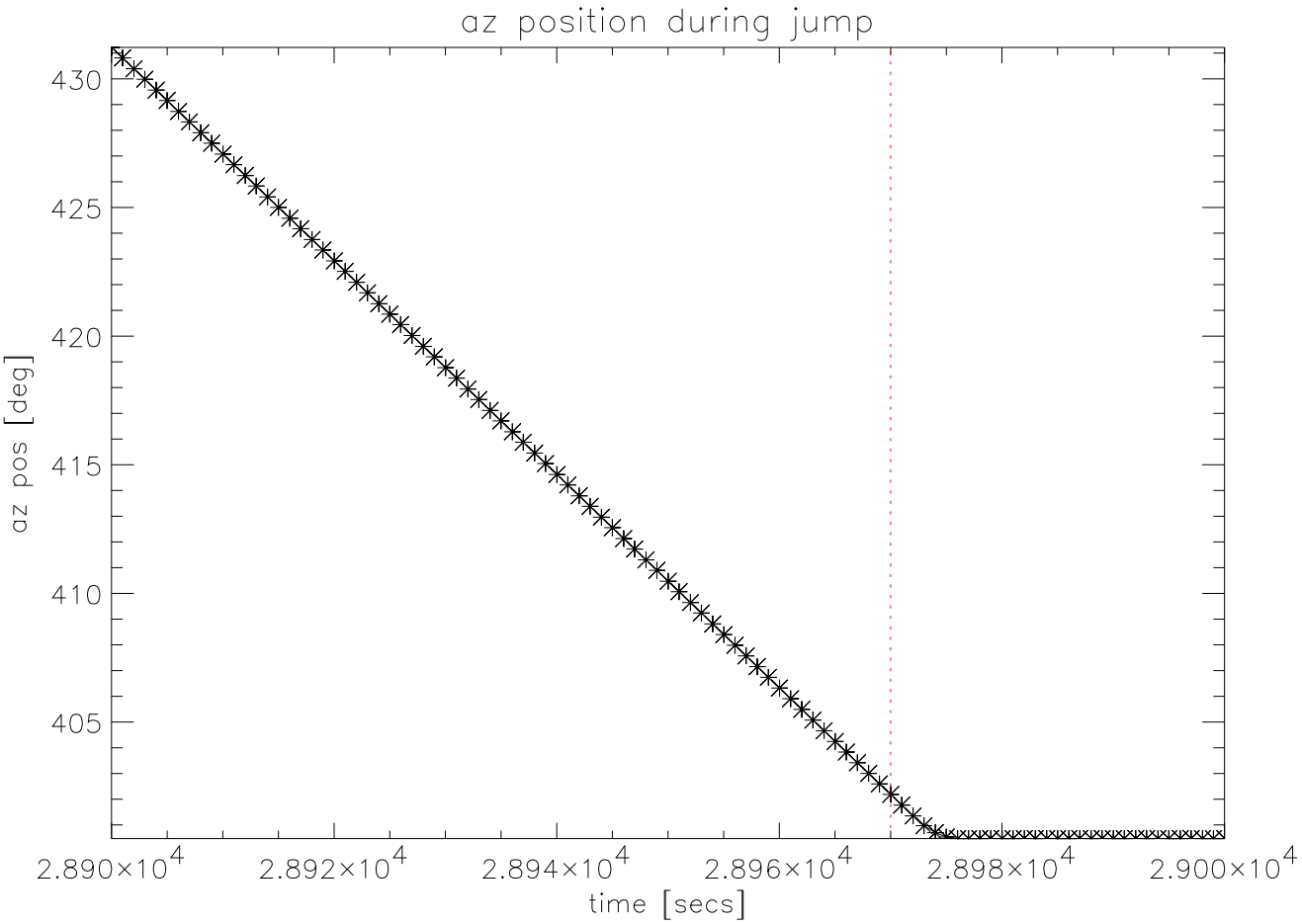
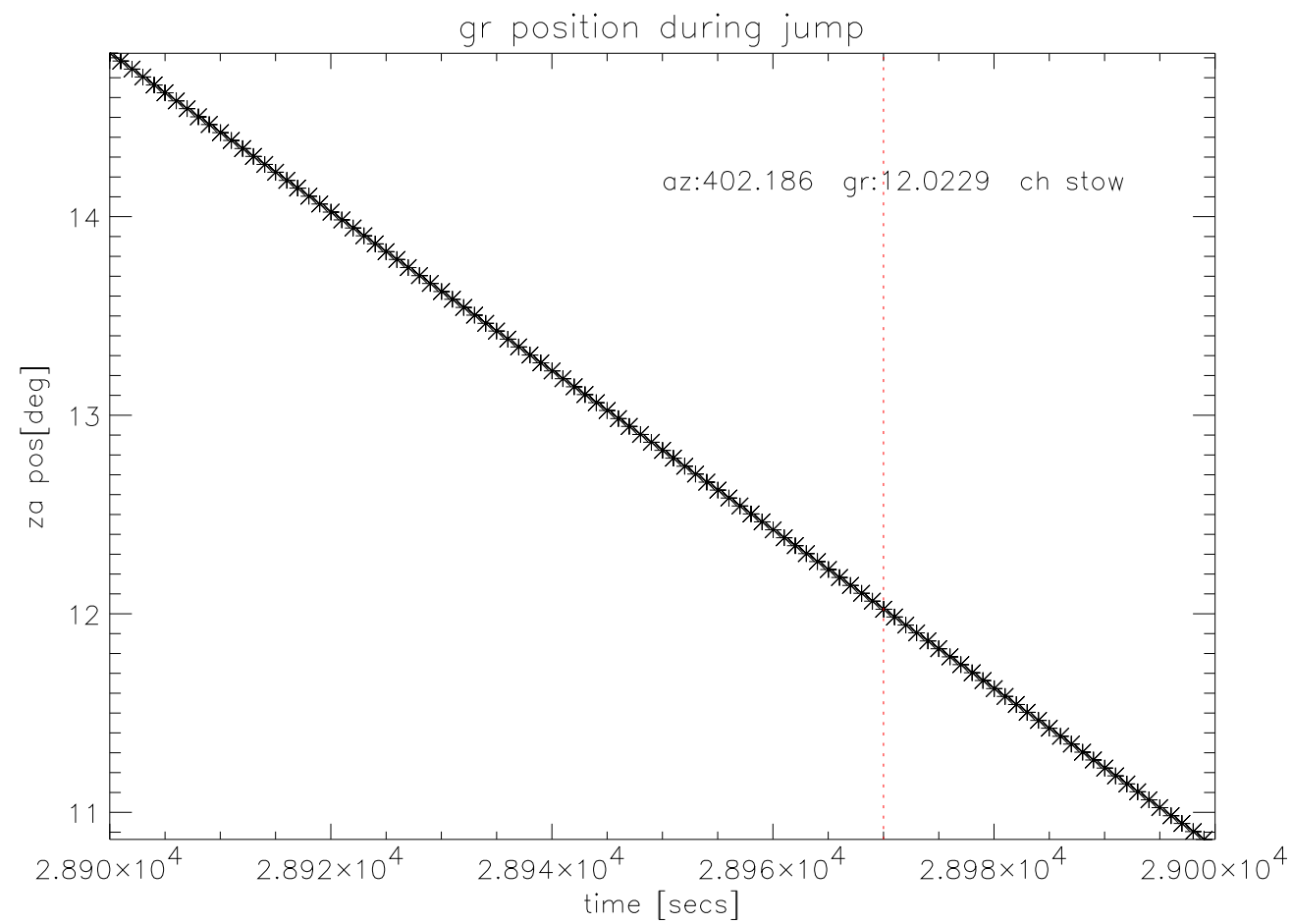
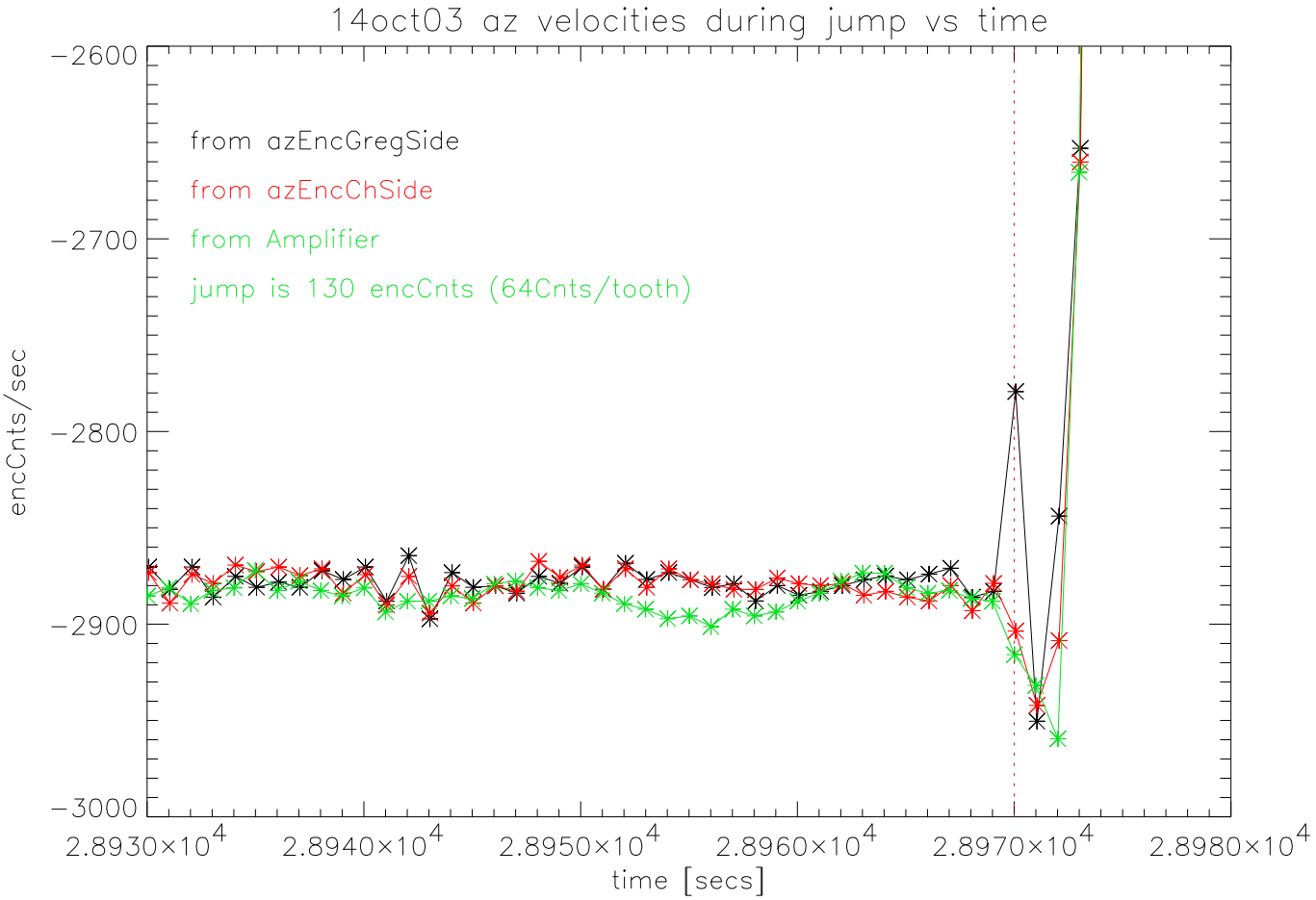
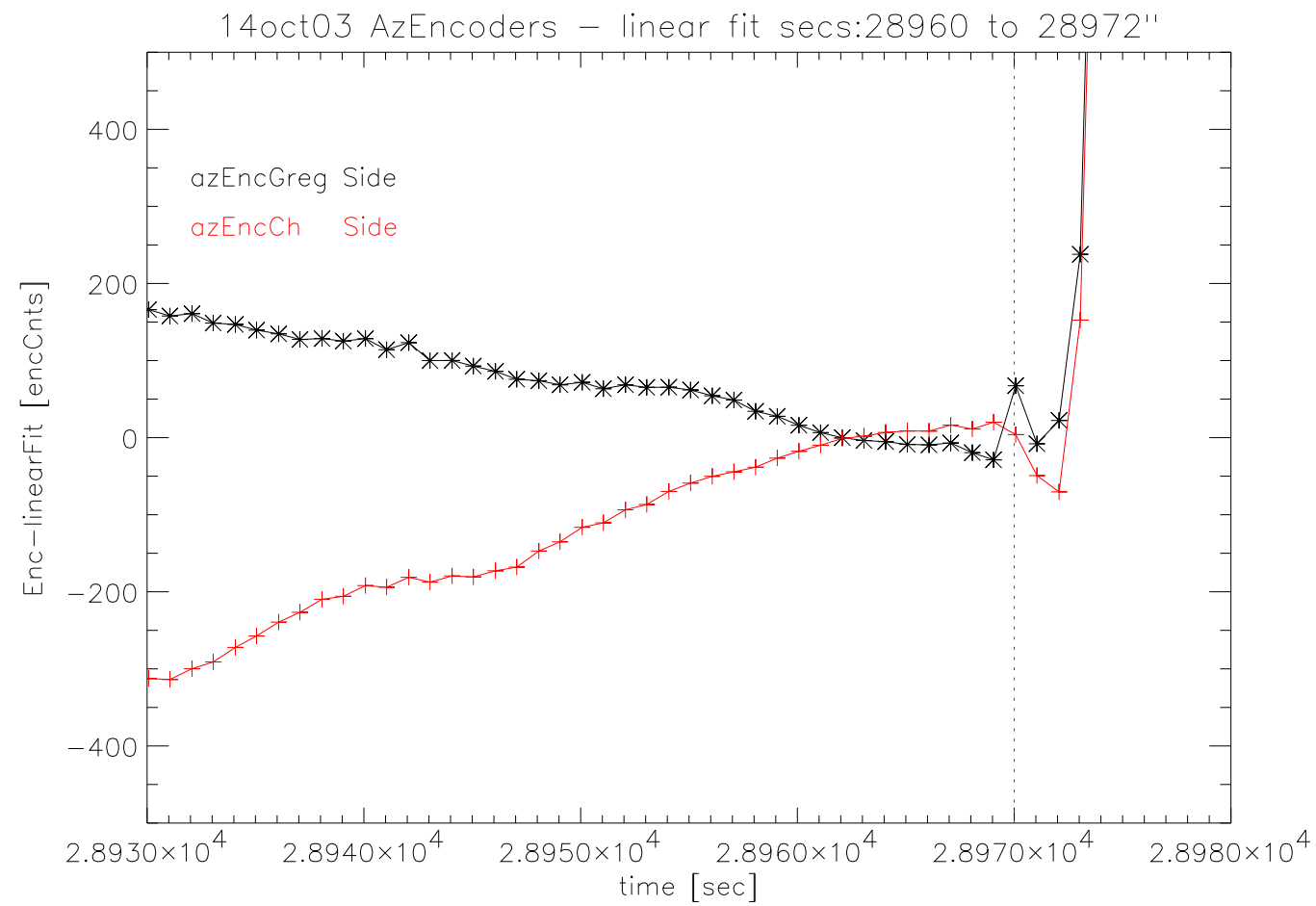

14oct03 az encoder dif (dome−ch) vs time
encoderDif [encCnts]
400
200
0
−200
−400
0
2×10^4
4×10^4
6×10^4
8×10^4
time [secMidnite]
encoderDif [encCnts]
400
200
0
−200
−400
2.890×10^4
2.892×10^4
2.894×10^4
2.896×10^4
2.898×10^4
2.900×10^4
time [sec]

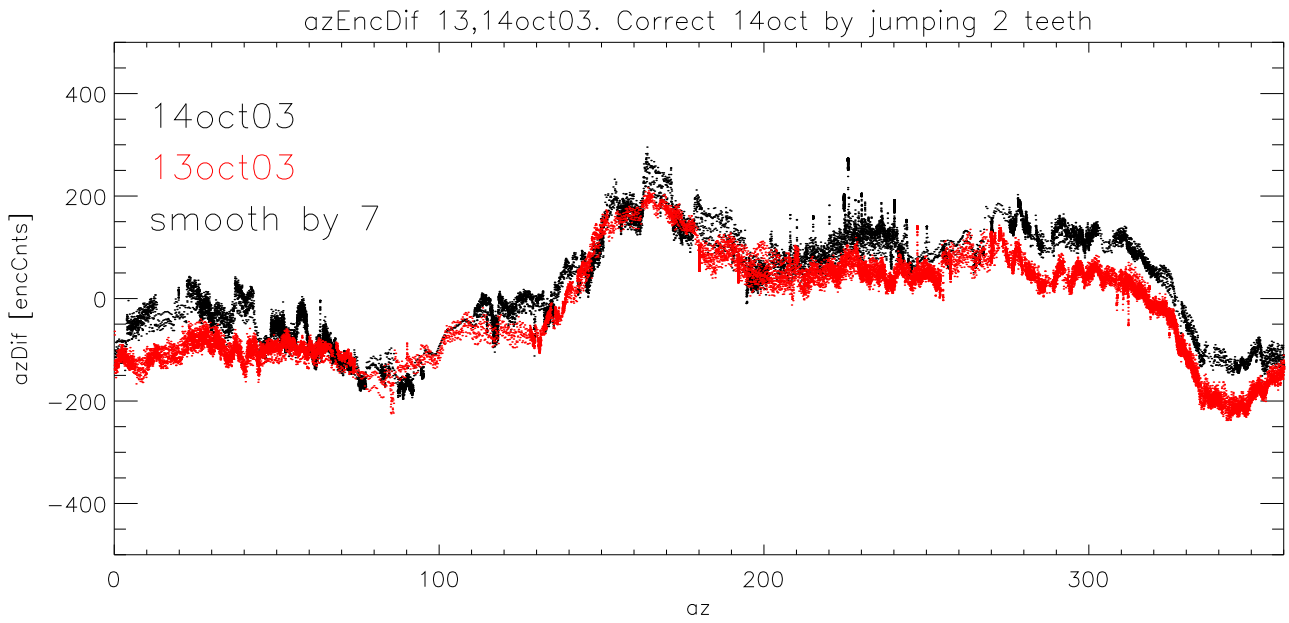

14oct03 encDif rate of change (per sec) vs time
encoder tooth steps
encDif[n]−encDif[n−1] [encCnts]
200
100
0
−100
−200
0
2×10^4
4×10^4
6×10^4
8×10^4
time [secs]
blowup
encDif[n]−encDif[n−1] [encCnts]
200
100
0
−100
−200
2.890×10^4
2.892×10^4
2.894×10^4
2.896×10^4
2.898×10^4
2.900×10^4
time [secs]

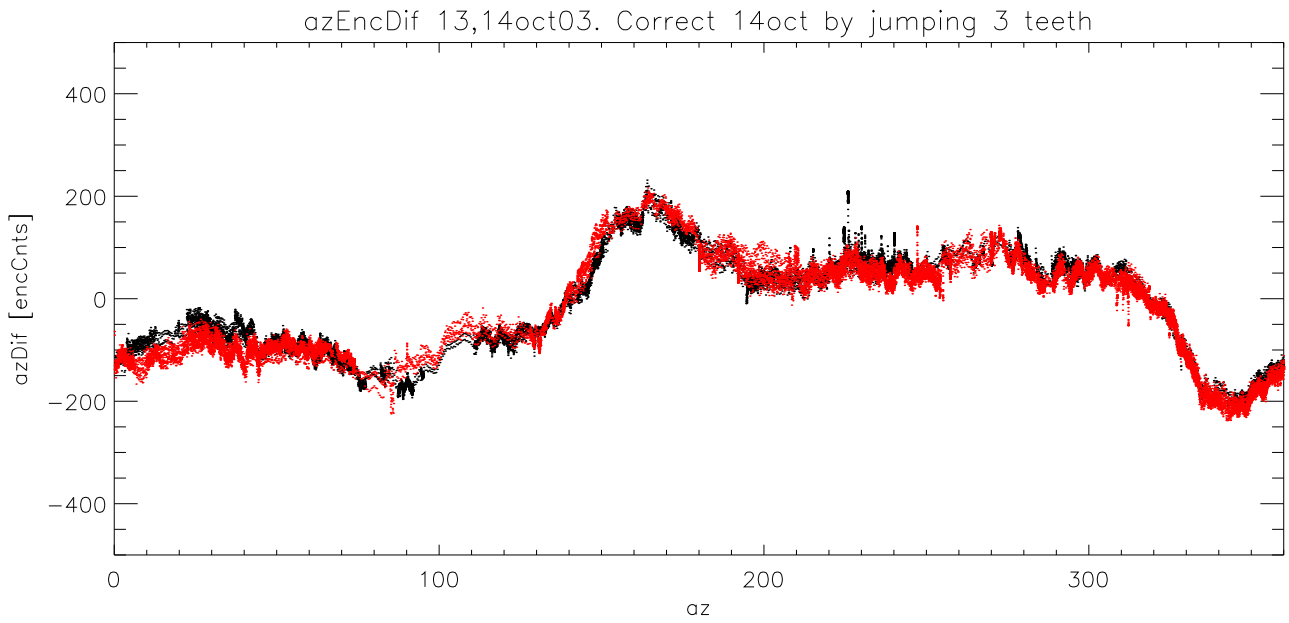

az position during jump
az pos [deg]
430
425
420
415
410
405
2.890×10^4
2.892×10^4
2.894×10^4
2.896×10^4
2.898×10^4
2.900×10^4
time [secs]

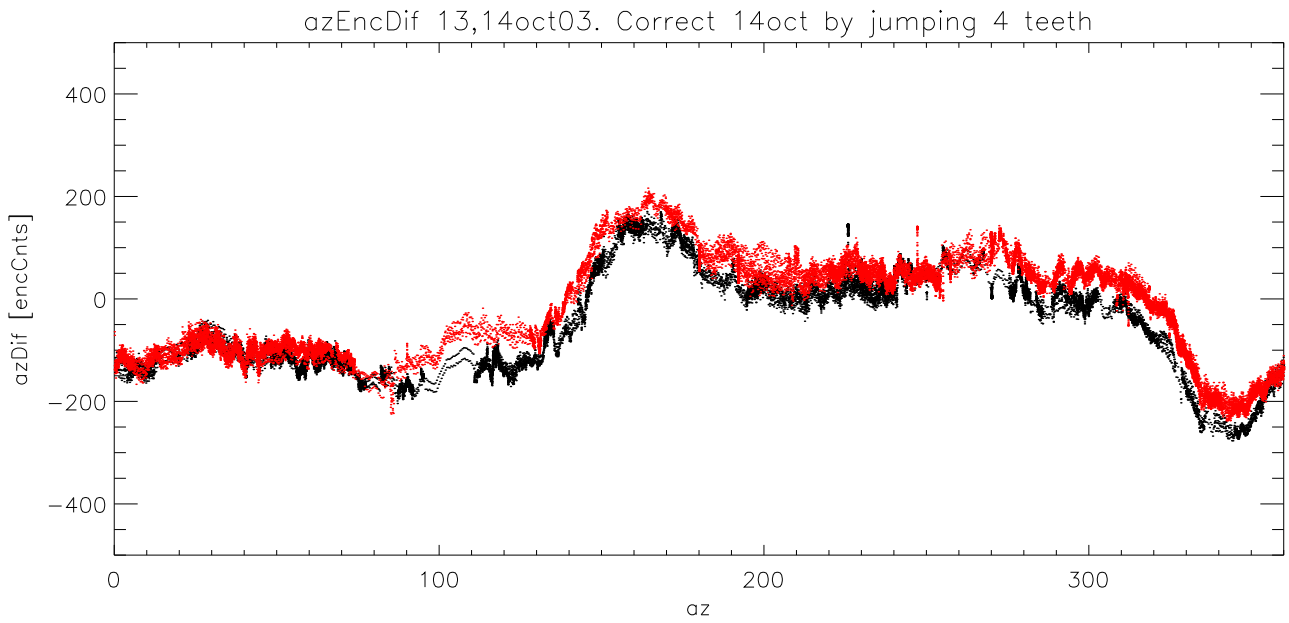

gr position during jump
az:402.186 gr:12.0229 ch stow
za pos[deg]
14
13
12
11
2.890×10^4
2.892×10^4
2.894×10^4
2.896×10^4
2.898×10^4
2.900×10^4
time [secs]


14oct03 az velocities during jump vs time
from azEncGregSide
from azEncChSide
from Amplifier
jump is 130 encCnts (64Cnts/tooth)
encCnts/sec
−2600
−2700
−2800
−2900
−3000
2.8930×10^4
2.8940×10^4
2.8950×10^4
2.8960×10^4
2.8970×10^4
2.8980×10^4
time [secs]


14oct03 AzEncoders − linear fit secs:28960 to 28972''
azEncGreg Side
azEncCh Side
Enc−linearFit [encCnts]
400
200
0
−200
−400
2.8930×10^4
2.8940×10^4
2.8950×10^4
2.8960×10^4
2.8970×10^4
2.8980×10^4
time [sec]


azEncDif 13,14oct03. Correct 14oct by jumping 2 teeth
14oct03
13oct03
smooth by 7
azDif [encCnts]
400
200
0
−200
−400
0
100
200
300
az


azEncDif 13,14oct03. Correct 14oct by jumping 3 teeth
azDif [encCnts]
400
200
0
−200
−400
0
100
200
300
az


azEncDif 13,14oct03. Correct 14oct by jumping 4 teeth
azDif [encCnts]
400
200
0
−200
−400
0
100
200
300
az