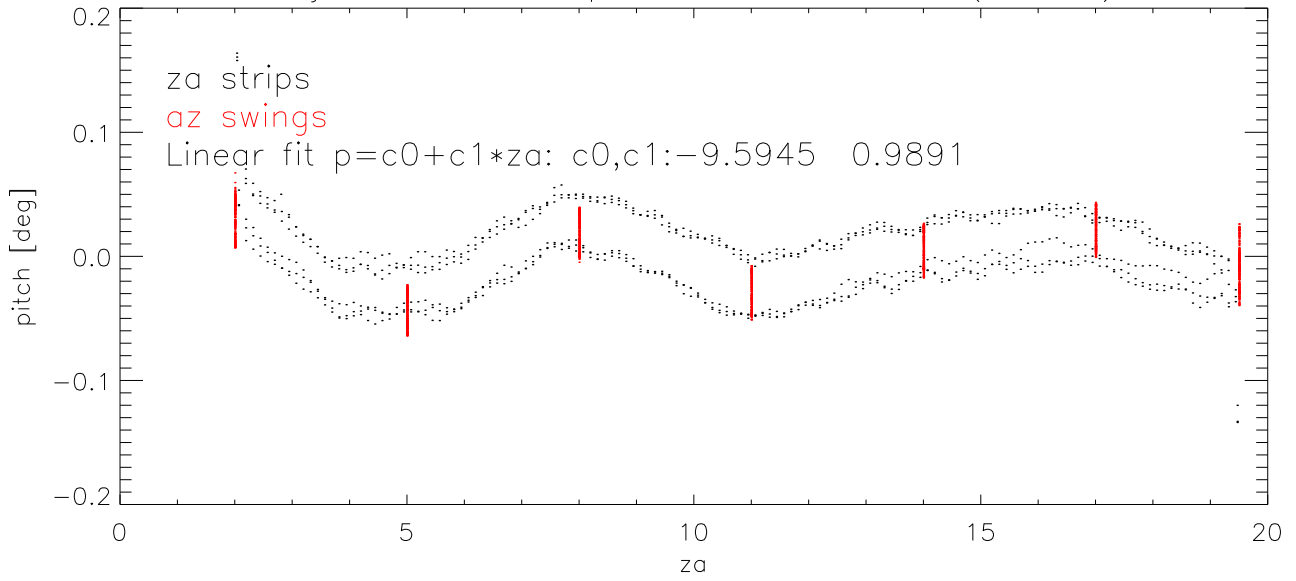
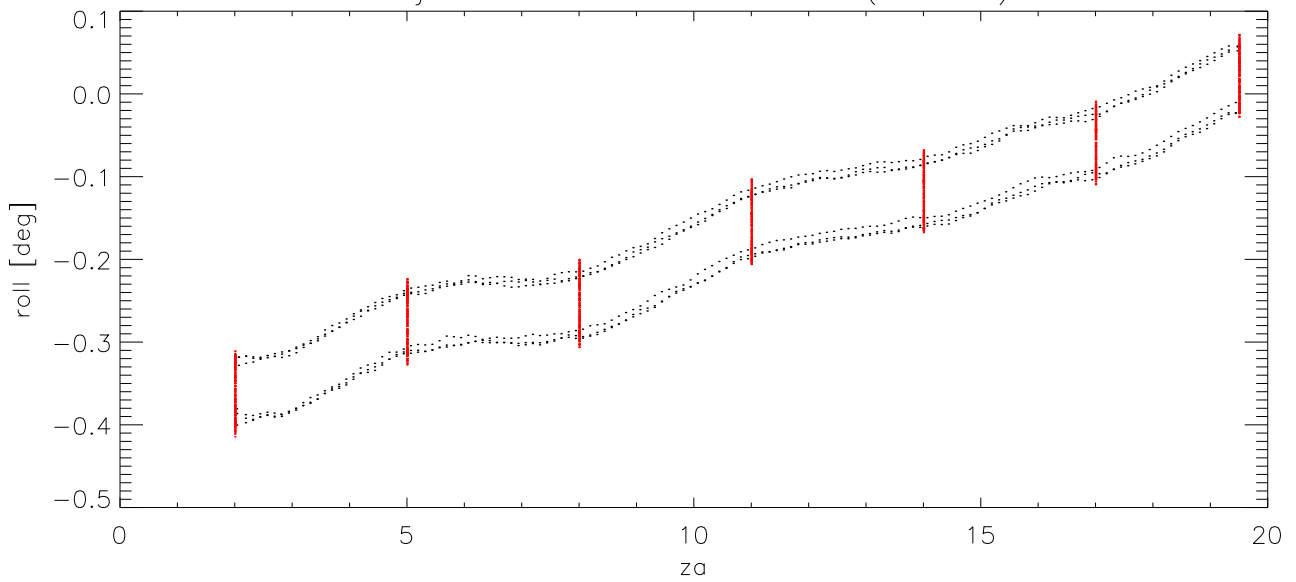


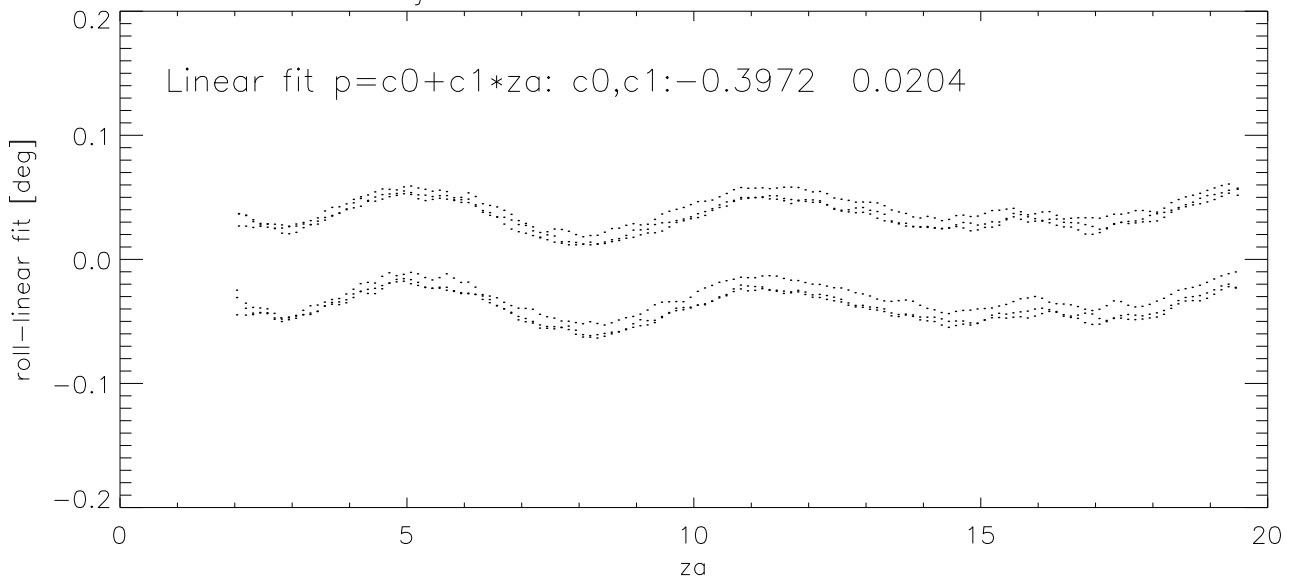
16jun12 tilt sensor pitch - LinearFit vs za (raw dat)



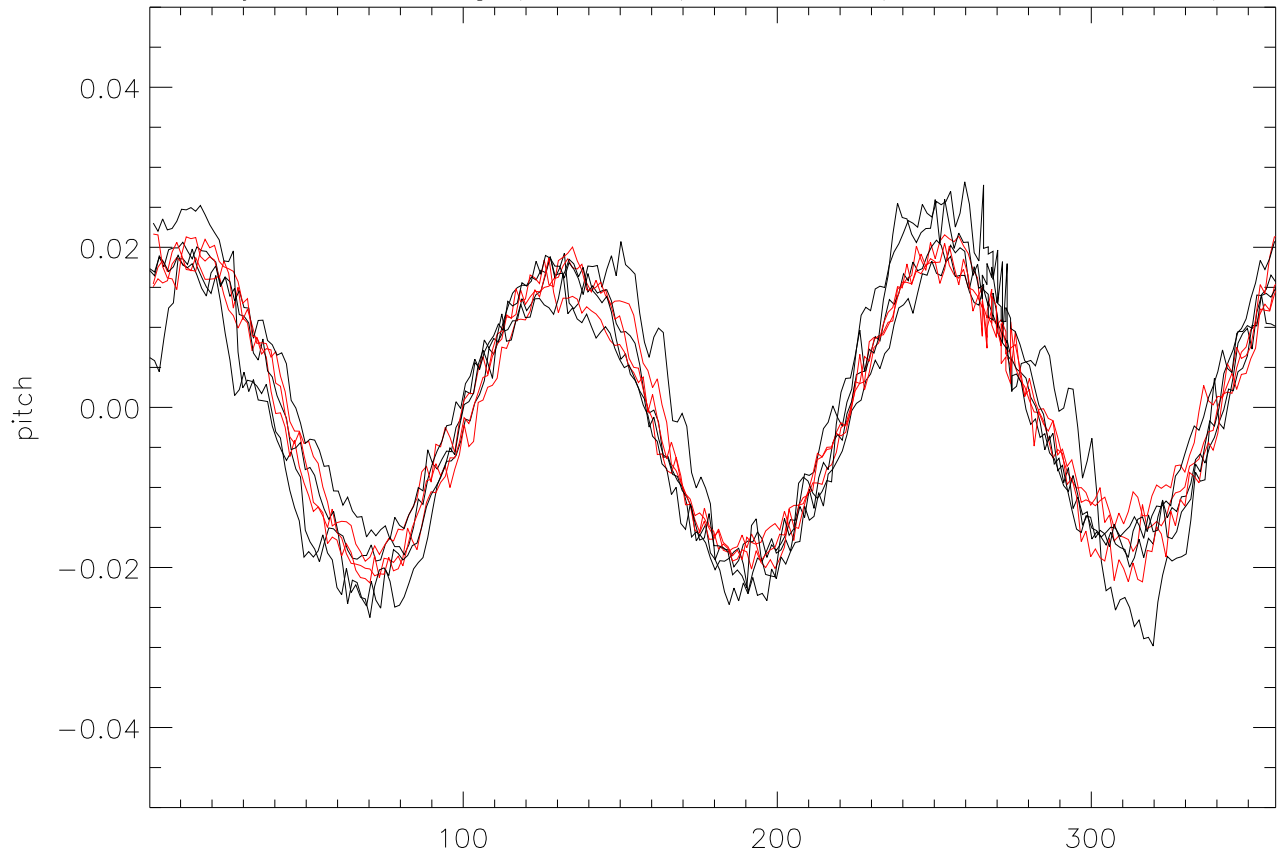
16jun12 tilt sensor Roll vs za (raw dat)



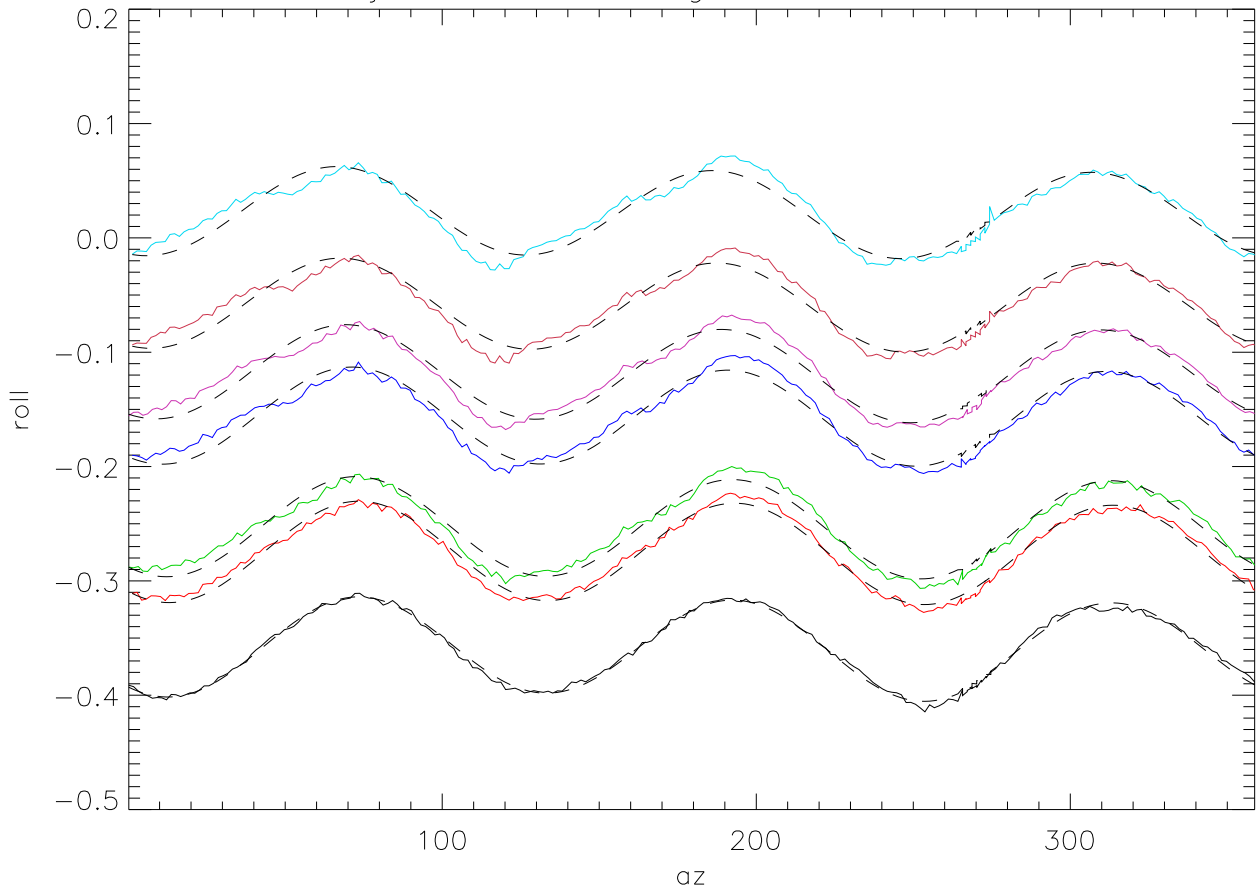
16jun12 tilt sensor Roll -linearFit vs za



16jun12 azswings(raw data) PITCH - (c0+c1*az from fit)

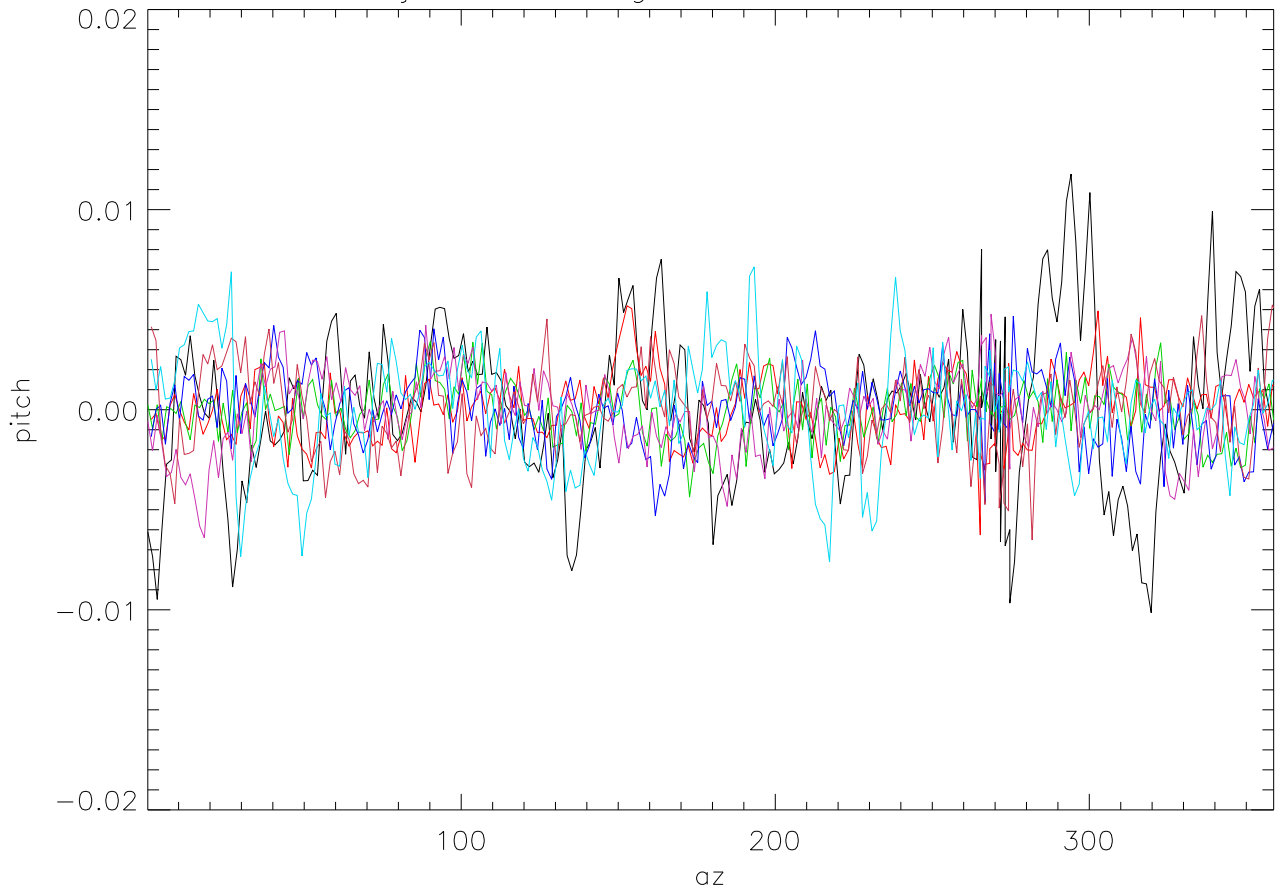


16jun12 roll az swing. solid:data, dash:fit

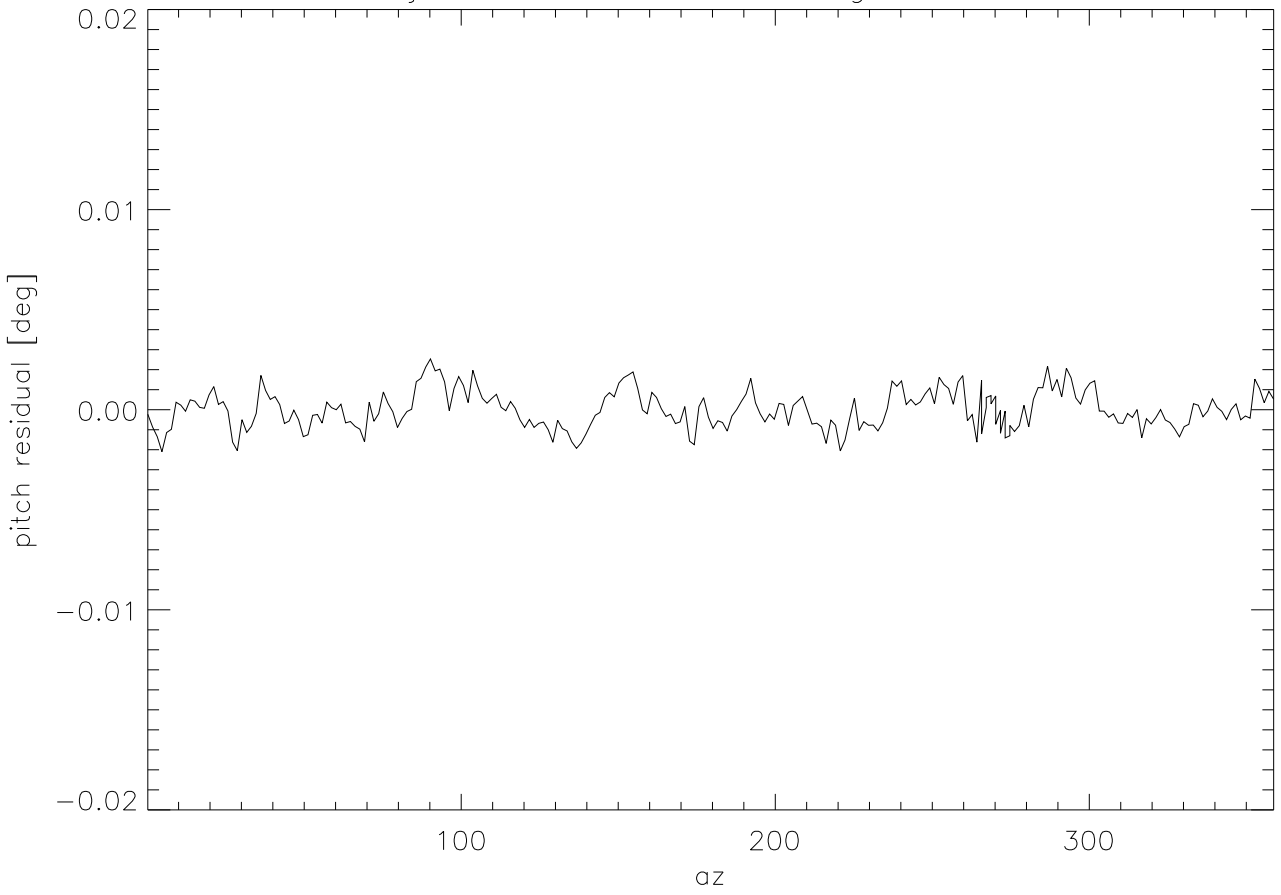


$$\begin{aligned} \text{Roll} &= -0.3555 + 0.0000*za - 7.98e-06*az + \\ \text{za: } &2.0 \quad 0.0037*\sin(\text{az} - 26.0) + \\ &\quad 0.0423*\sin(3\text{az} - 129.1) \\ \text{Roll} &= -0.2756 + 0.0000*za + 2.40e-07*az + \\ \text{za: } &5.0 \quad 0.0020*\sin(\text{az} - 12.2) + \\ &\quad 0.0435*\sin(3\text{az} - 130.1) \\ \text{Roll} &= -0.2564 + 0.0000*za + 5.47e-06*az + \\ \text{za: } &8.0 \quad 0.0021*\sin(\text{az} - 337.5) + \\ &\quad 0.0432*\sin(3\text{az} - 127.6) \\ \text{Roll} &= -0.1605 + 0.0000*za + 7.89e-06*az + \\ \text{za: } &11.0 \quad 0.0022*\sin(\text{az} - 329.5) + \\ &\quad 0.0419*\sin(3\text{az} - 123.3) \\ \text{Roll} &= -0.1221 + 0.0000*za + 6.32e-06*az + \\ \text{za: } &14.0 \quad 0.0030*\sin(\text{az} - 327.2) + \\ &\quad 0.0405*\sin(3\text{az} - 117.7) \\ \text{Roll} &= -0.0629 + 0.0000*za + 7.95e-06*az + \\ \text{za: } &17.0 \quad 0.0031*\sin(\text{az} - 317.6) + \\ &\quad 0.0389*\sin(3\text{az} - 112.9) \\ \text{Roll} &= 0.0182 + 0.0000*za + 7.53e-06*az + \\ \text{za: } &19.5 \quad 0.0028*\sin(\text{az} - 332.5) + \\ &\quad 0.0381*\sin(3\text{az} - 108.8) \end{aligned}$$

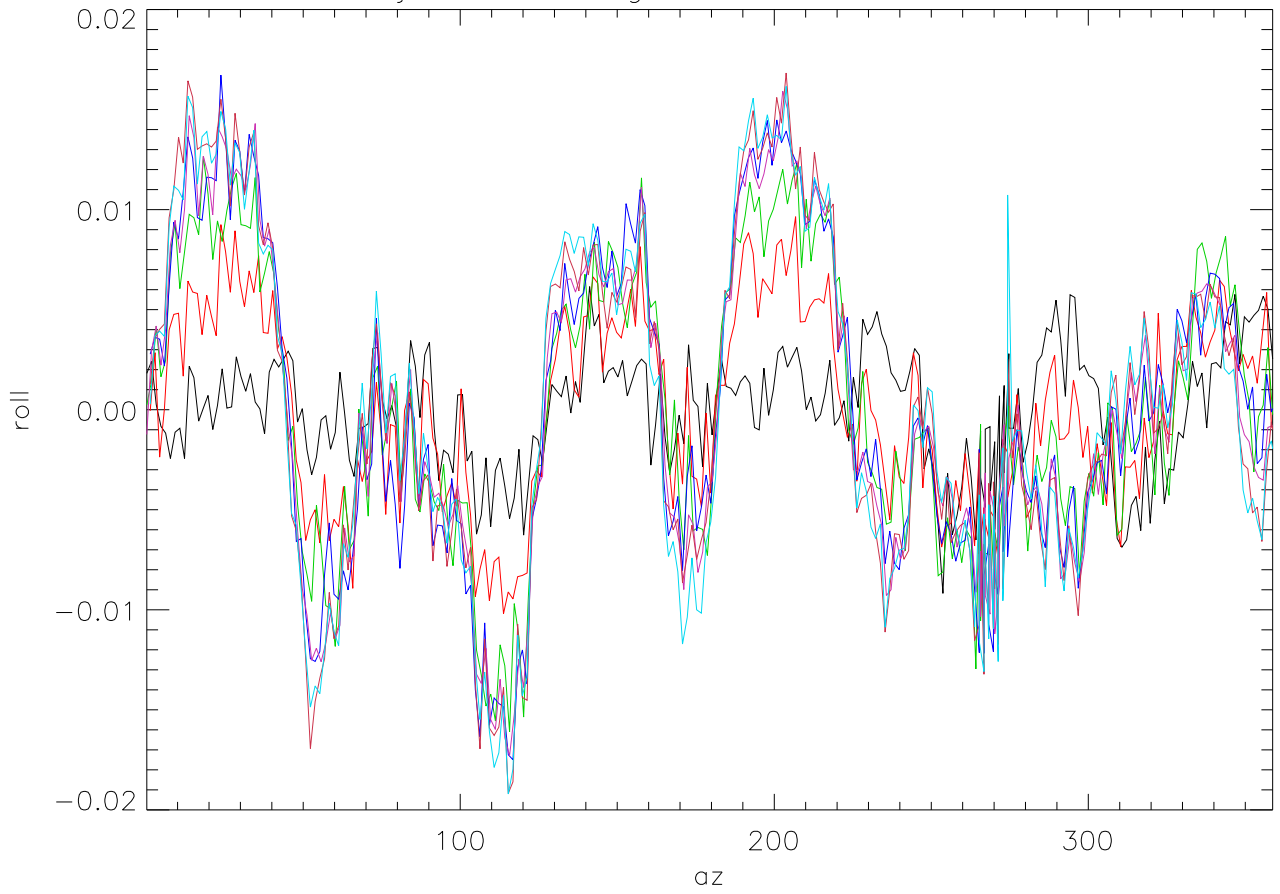
16jun12 azswings PITCH residuals vs az



16jun12 PITCH residuals avged over za



16jun12 azswings ROLL residuals vs az



16jun12 ROLL residuals avged over za

