no misreporting scenario mean prediction residuals age-3 age-1 age-2 age-4 age-5 age-6 IBTS_Q1_gam Residual: (Obs - Pred)/sd(Pred) IBTS_Q3_gam model no misreporting - random walk 1970 1980 1990 2000 2010 1970 1980 1990 2000 2010 1970 1980 1990 2000 2010 1970 1980 1990 2000 2010 1970 1980 1990 2000 2010 1970 1980 1990 2000 2010 1970 1980 1990 2000 2010 year