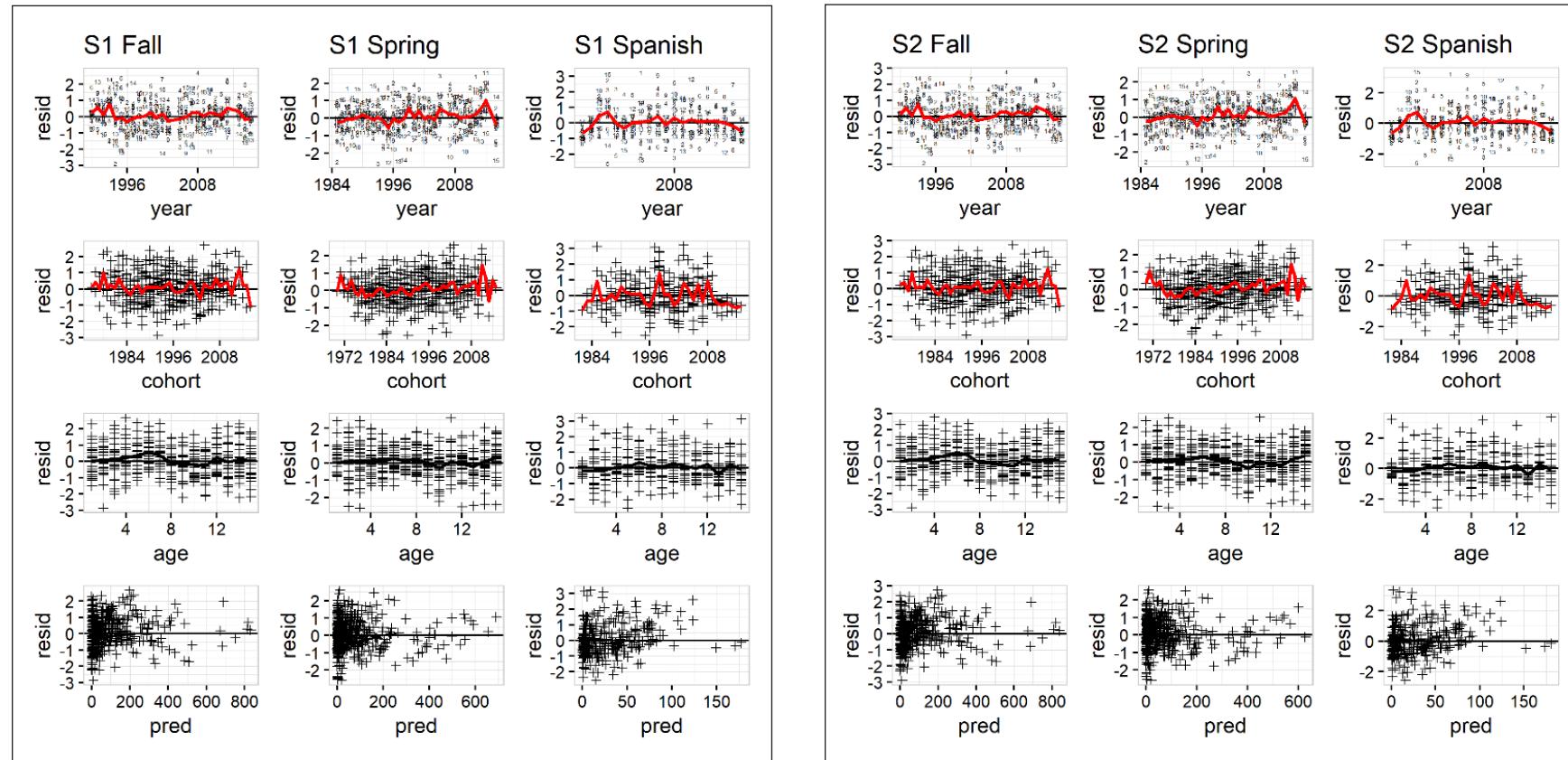


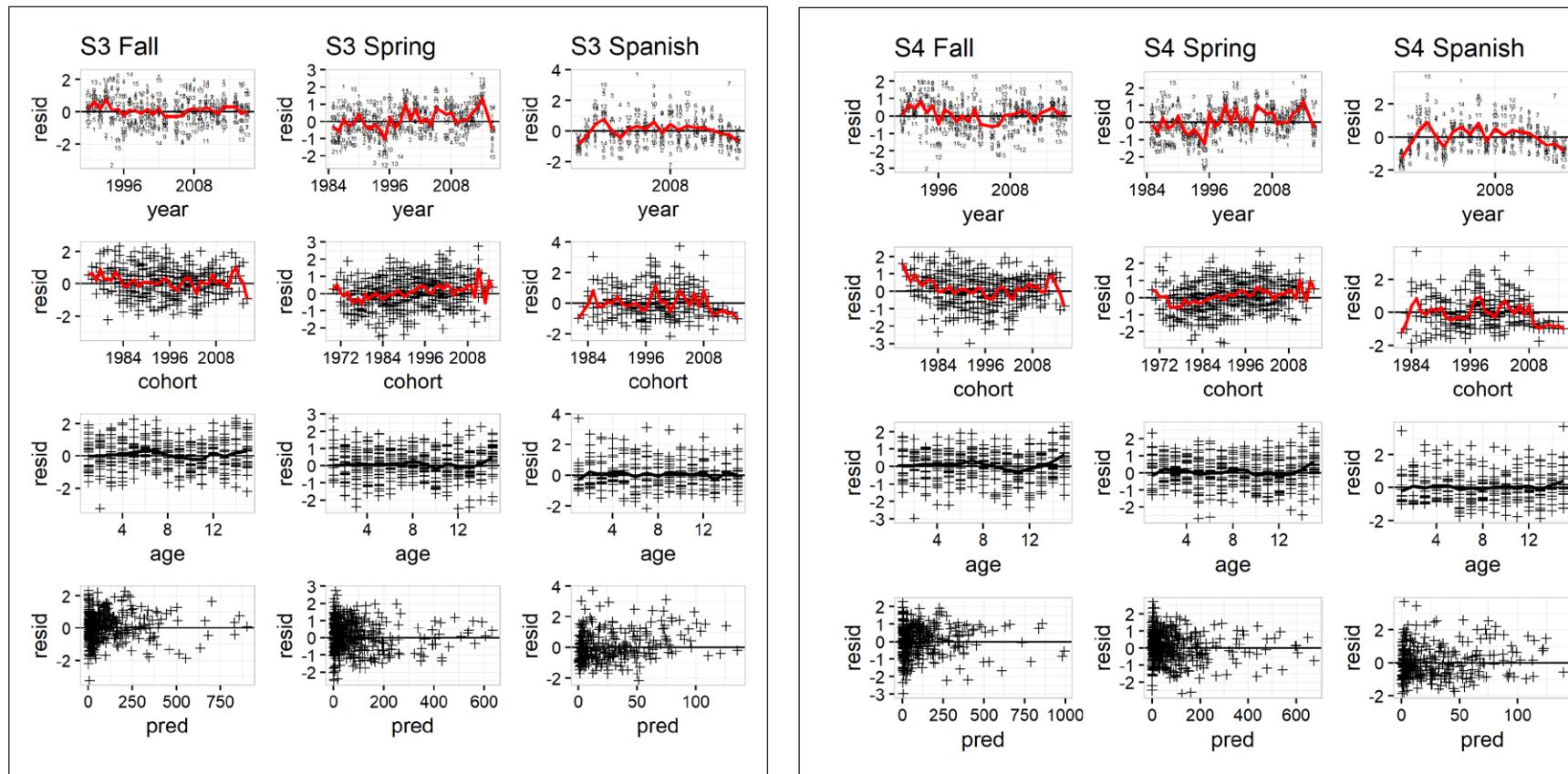
Supplementary Materials 2

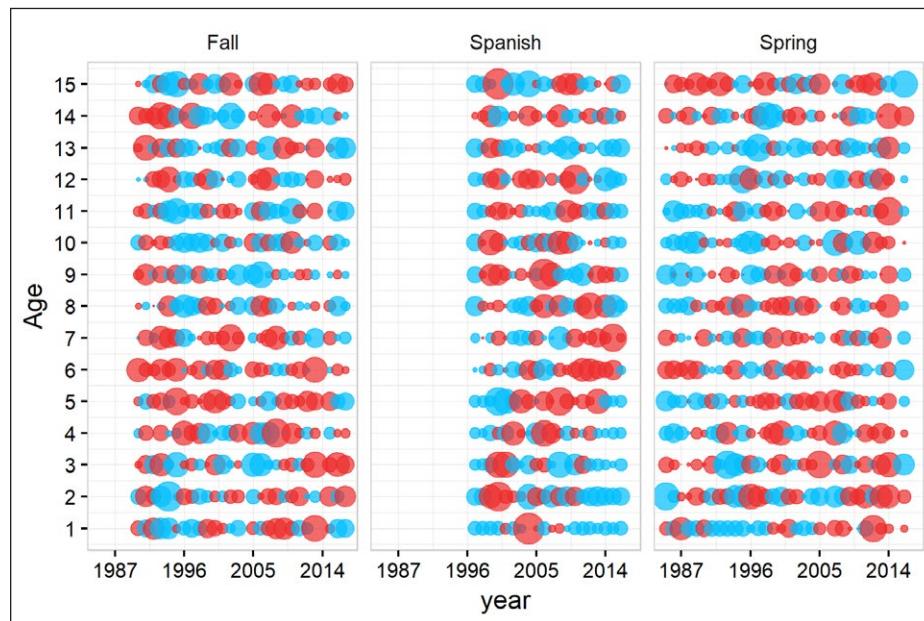
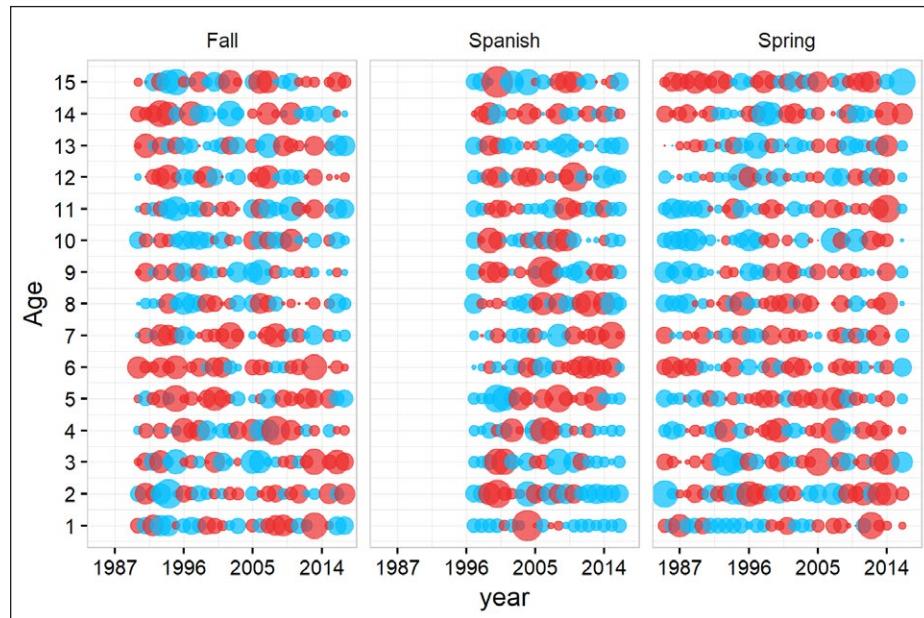
SSM Exploratory model fits; best model formulation

Survey index residuals

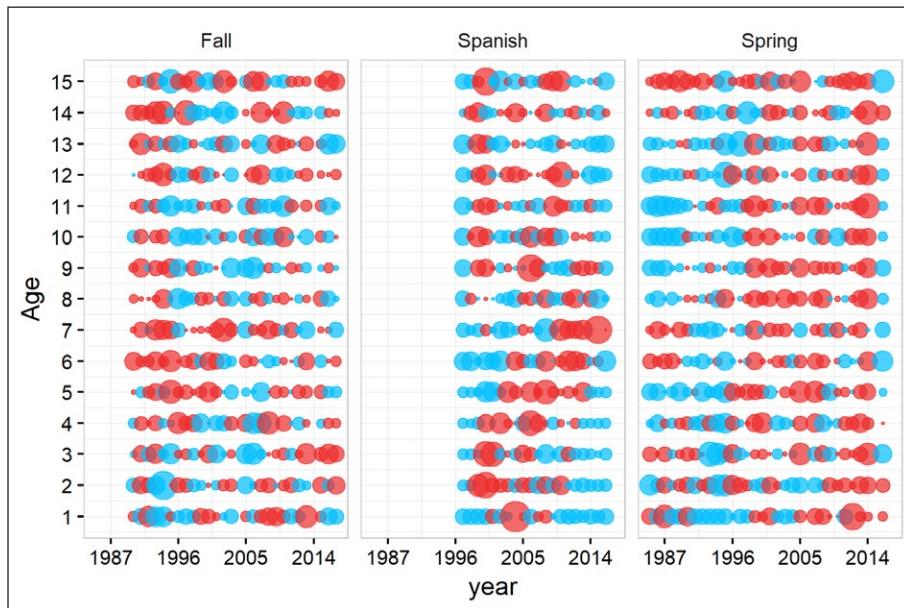


Survey index residuals

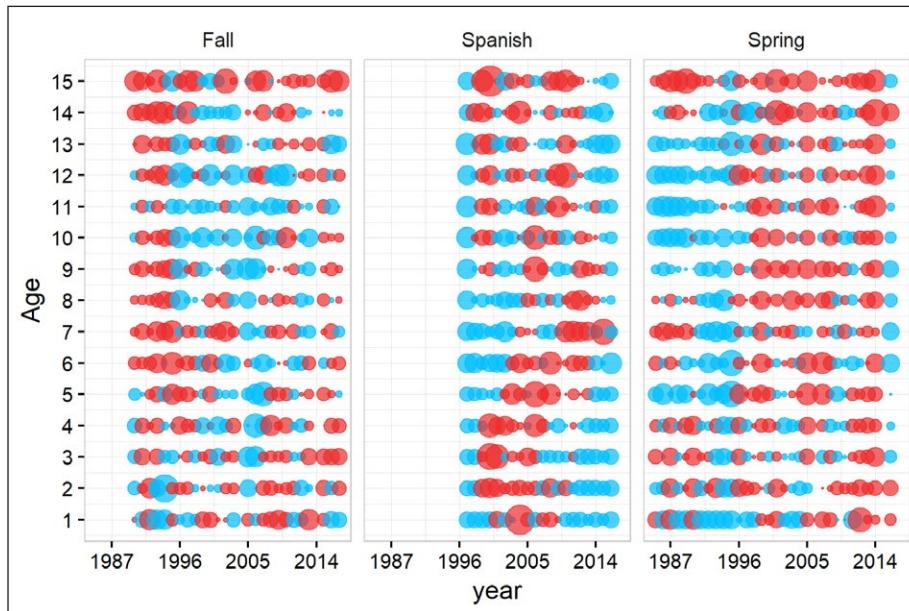


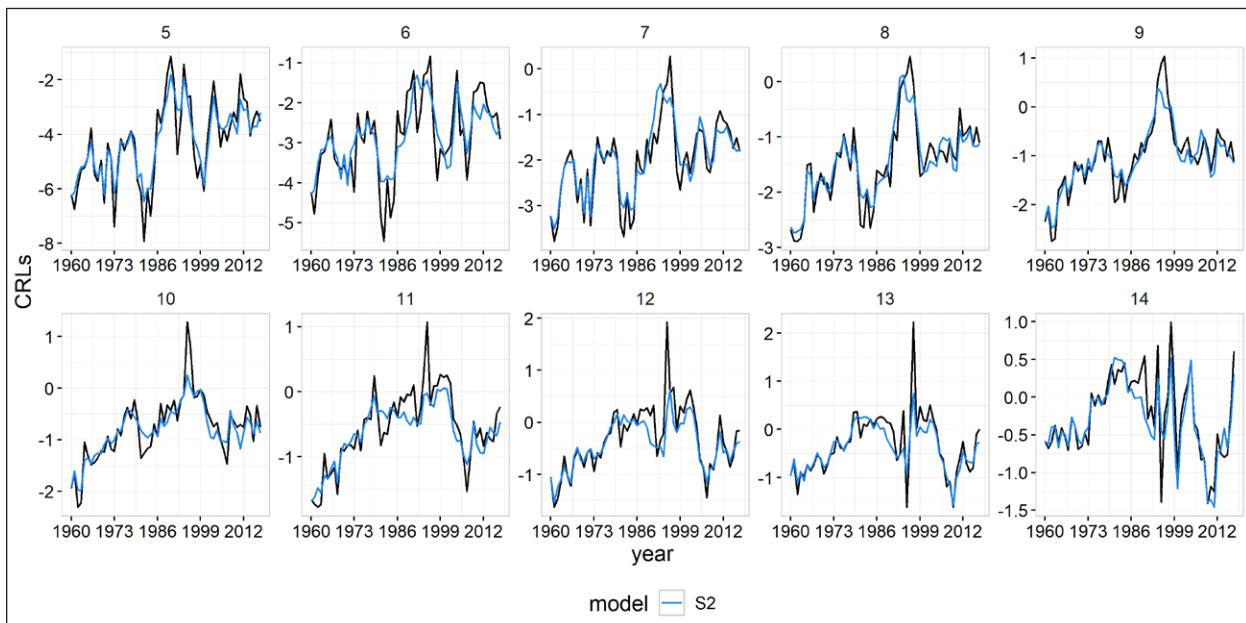
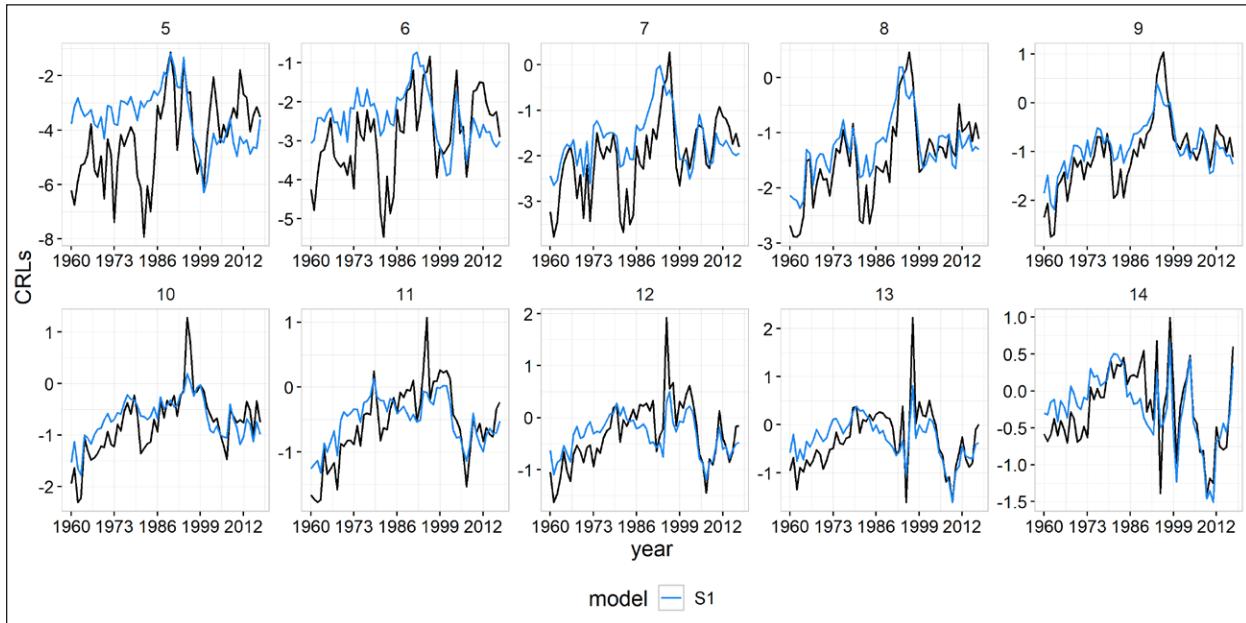
Survey index bubble plots**S1****S2**

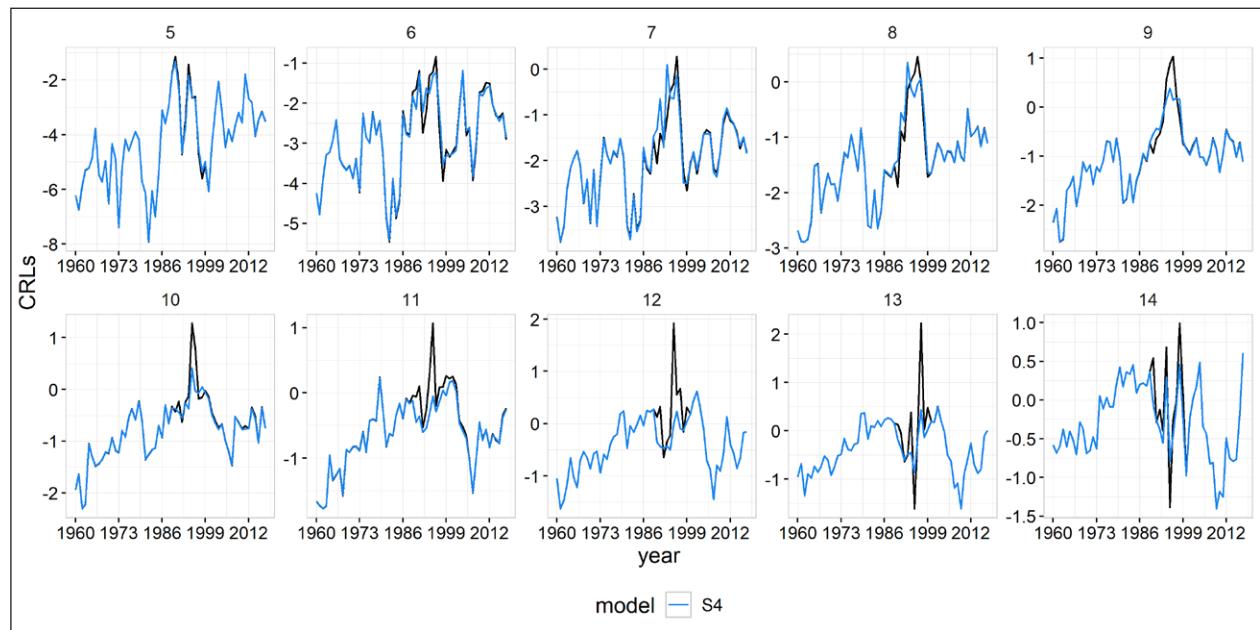
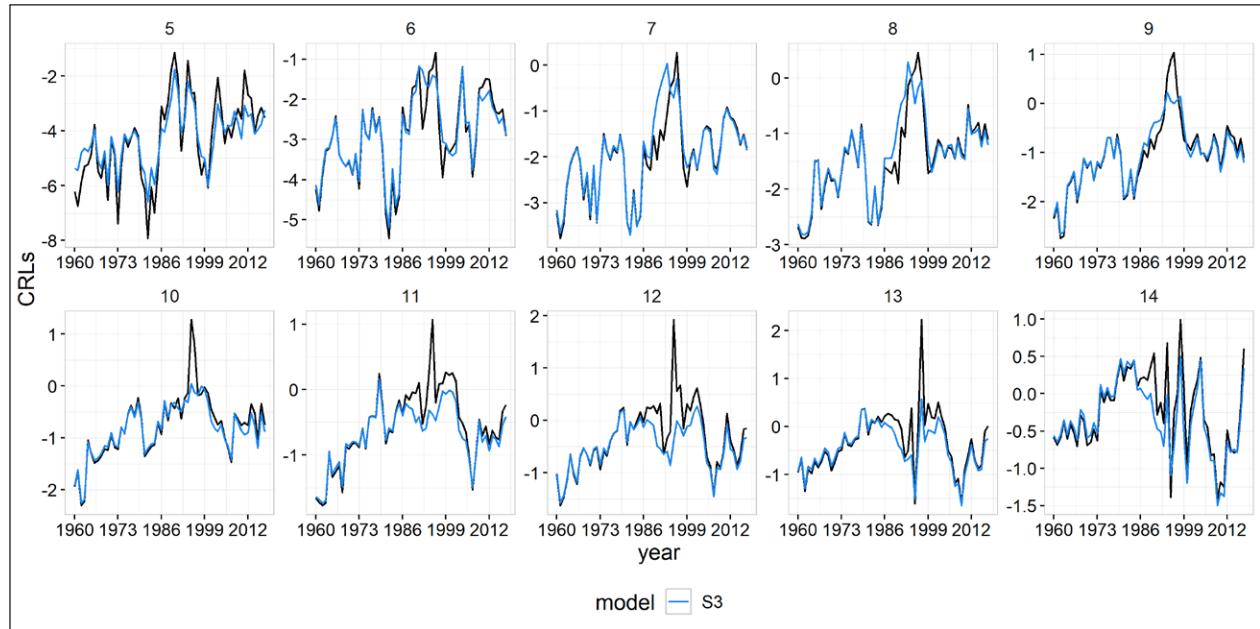
S3



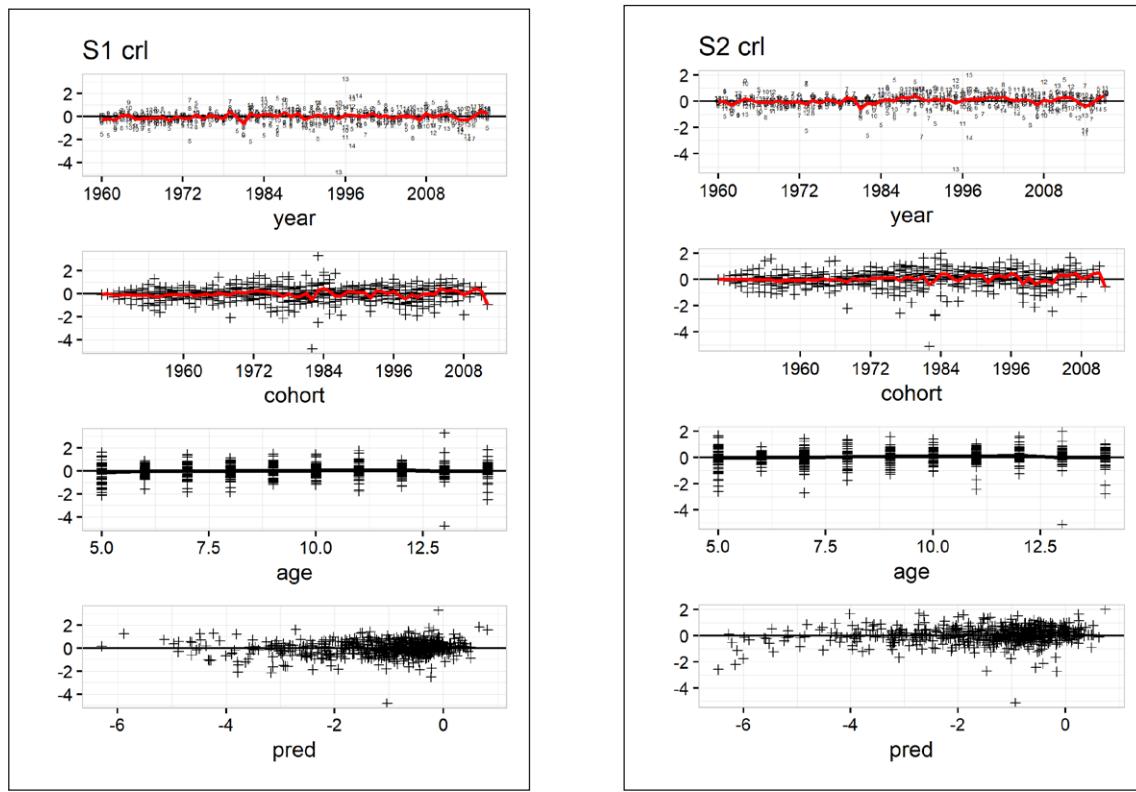
S4

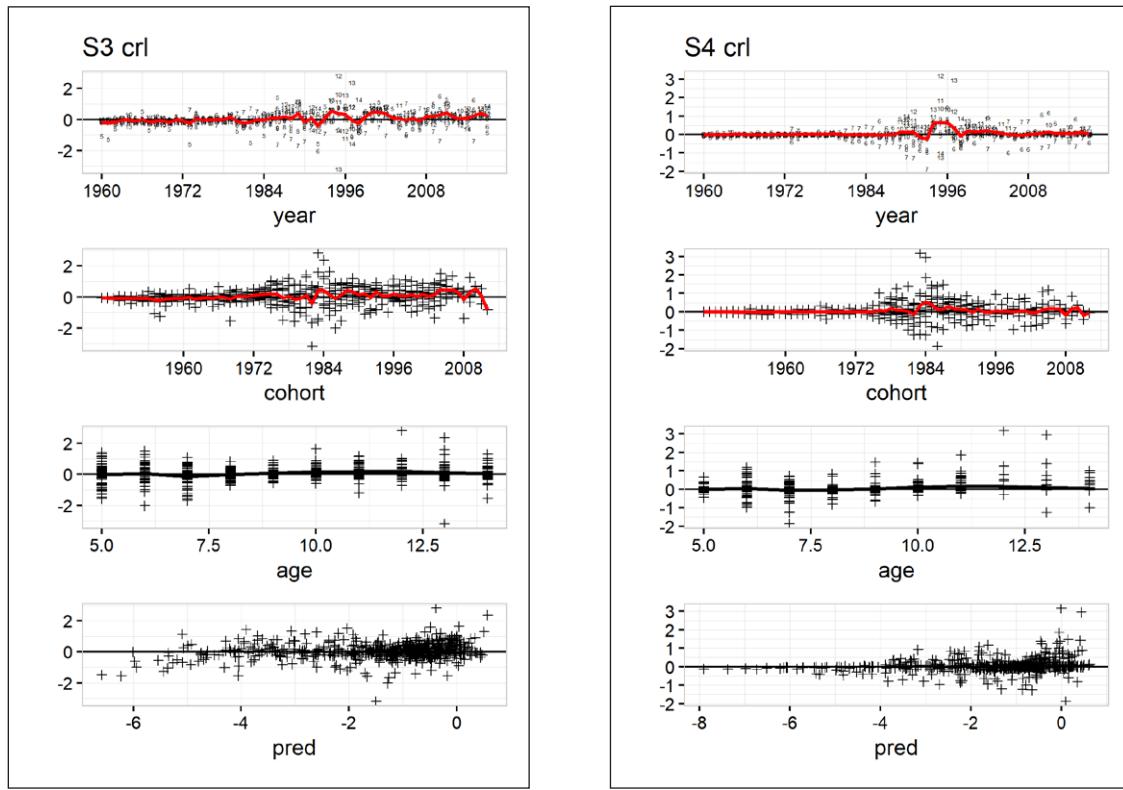


Crl fits

Crl fits

Crl residuals





Crl bubble plot residuals

