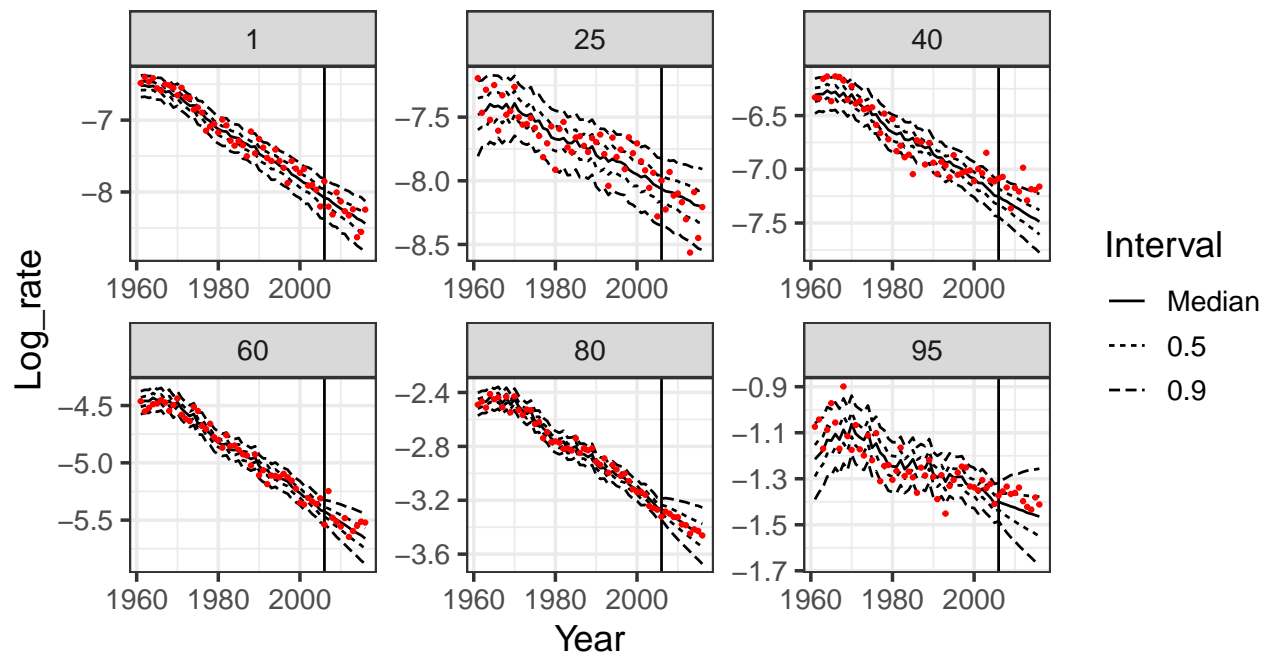


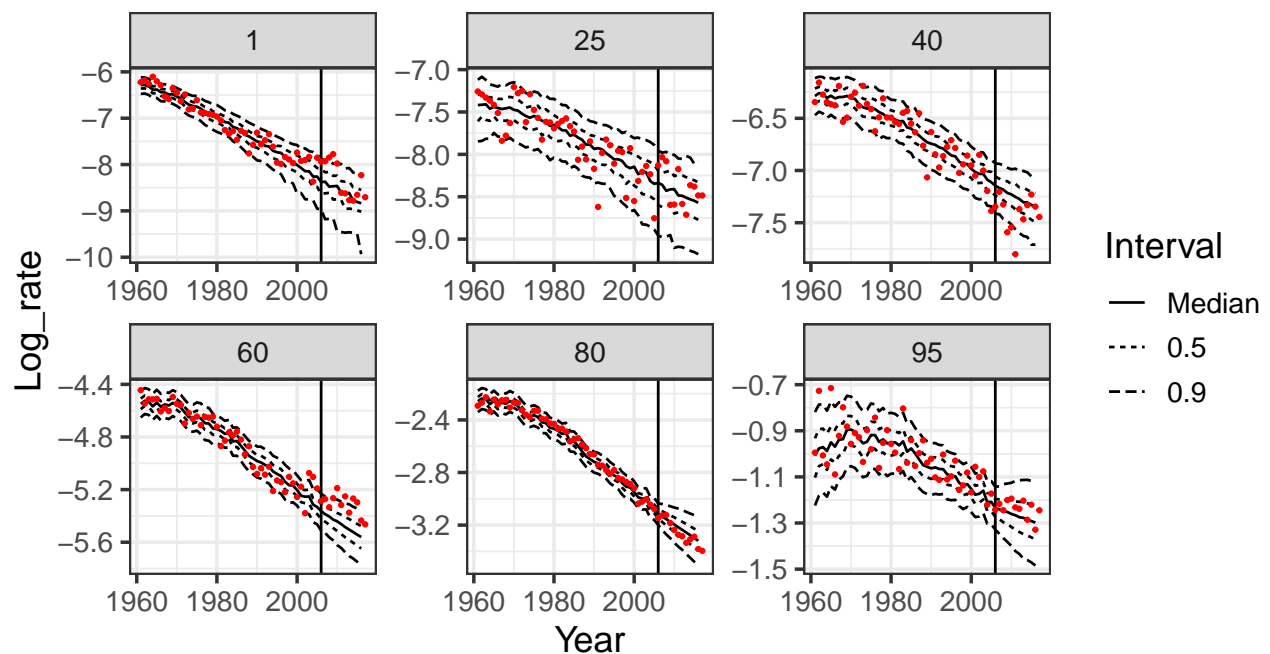
# Appendix: Modelling frontier mortality using Bayesian Generalised Additive Models

# 1 Country Forecast Plots - Independent Model

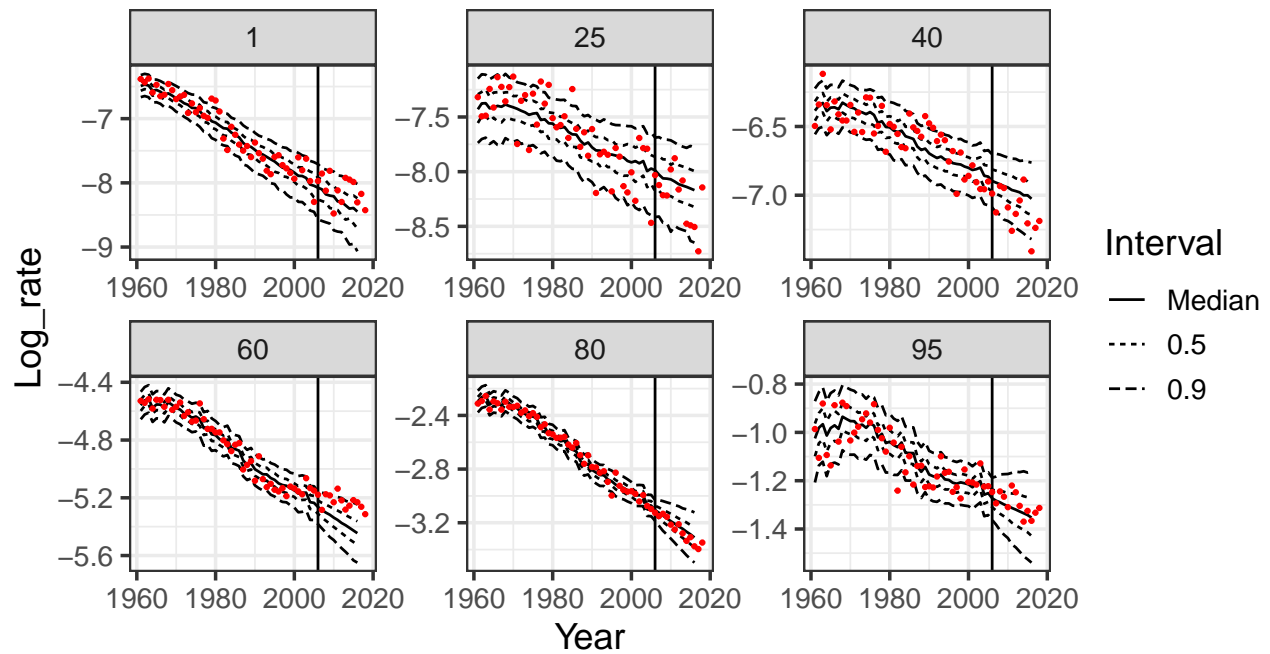
Log Rate Posterior for selected ages vs Empirical : AUS



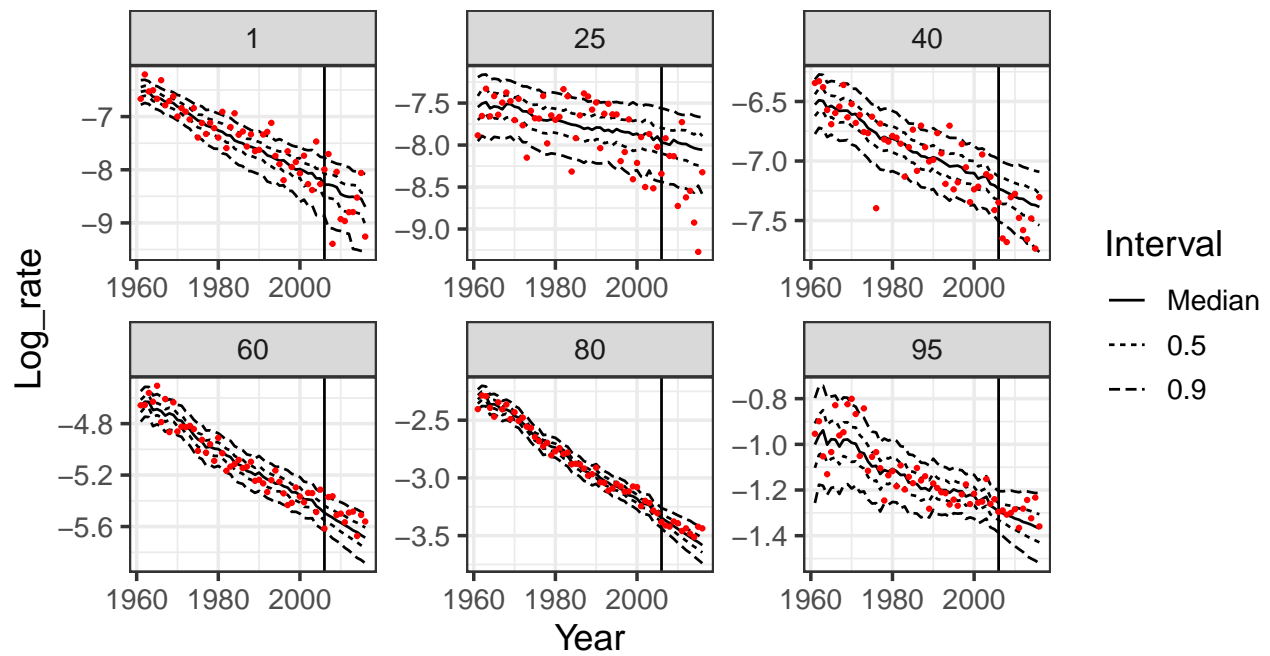
Log Rate Posterior for selected ages vs Empirical : AUT



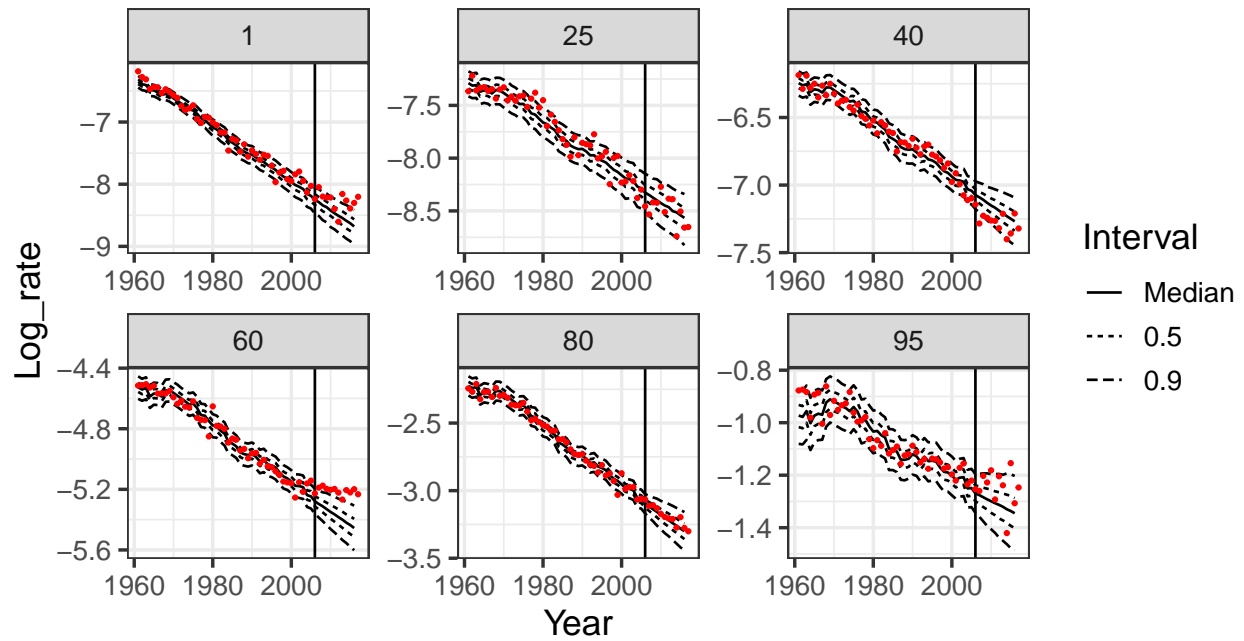
## Log Rate Posterior for selected ages vs Empirical : BEL



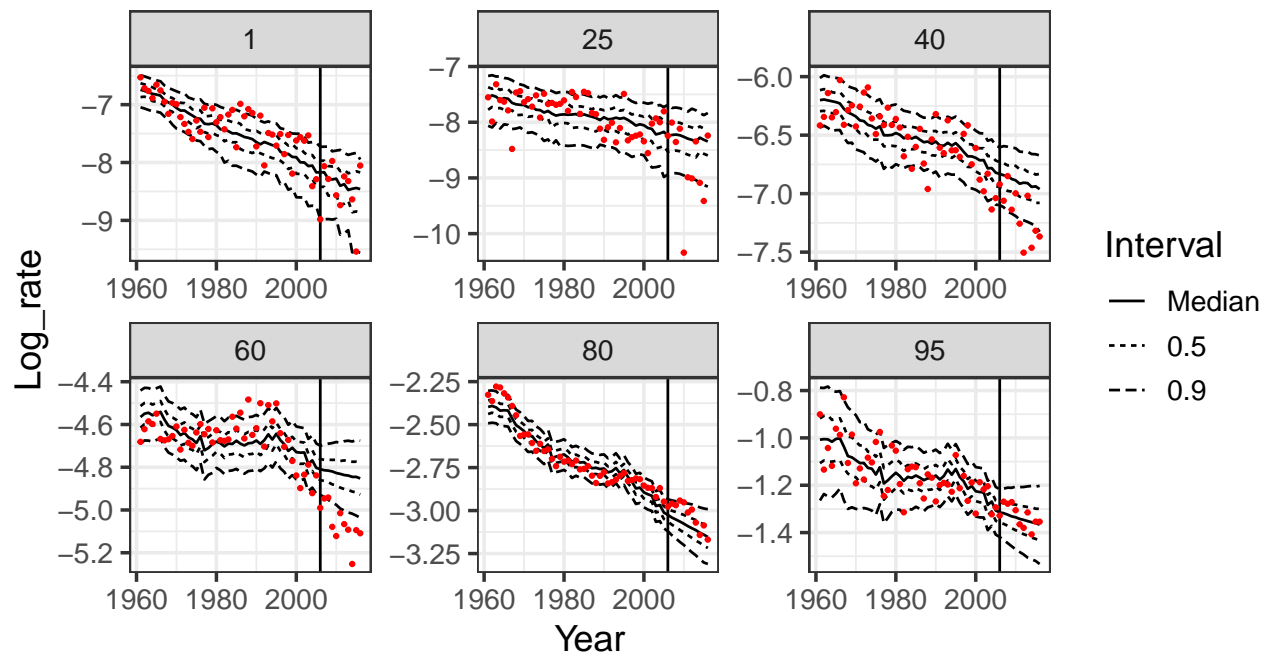
## Log Rate Posterior for selected ages vs Empirical : CHE



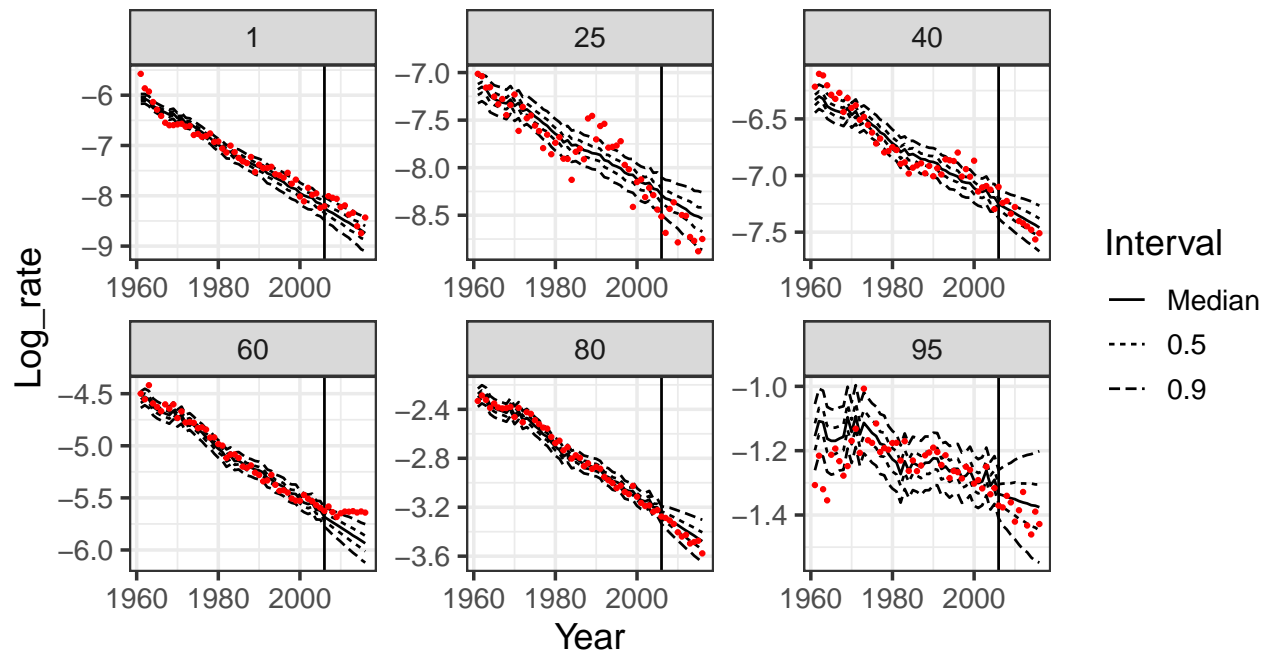
## Log Rate Posterior for selected ages vs Empirical : DEUTW



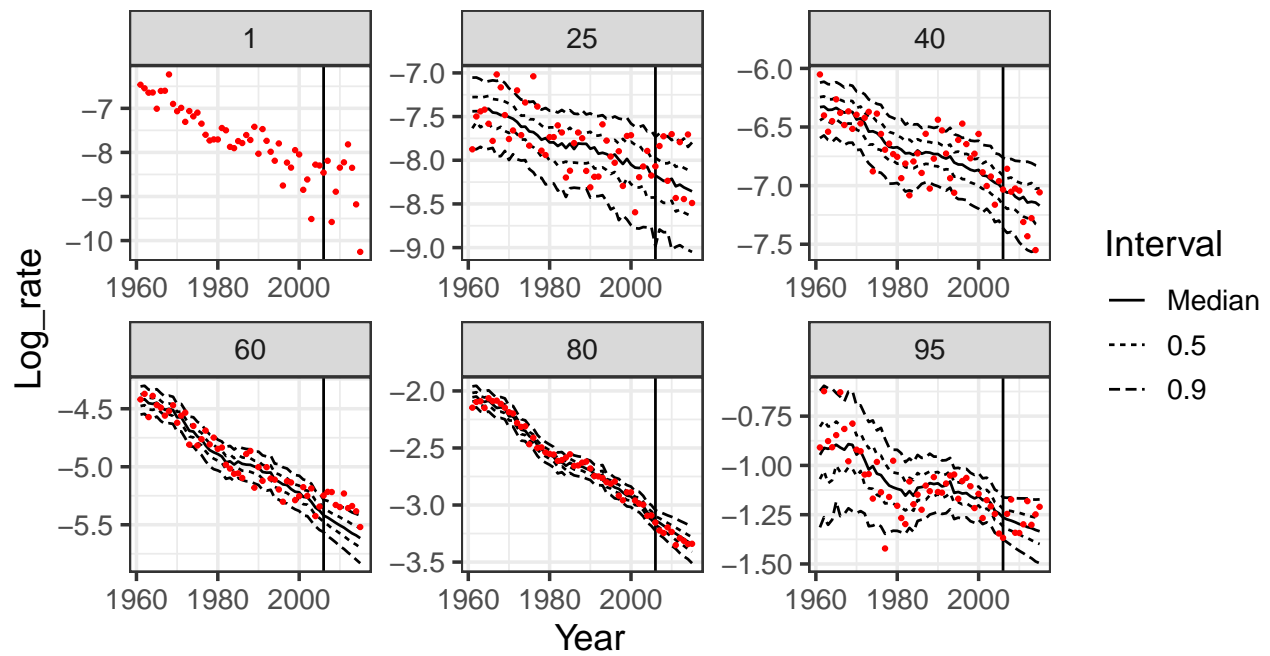
## Log Rate Posterior for selected ages vs Empirical : DNK



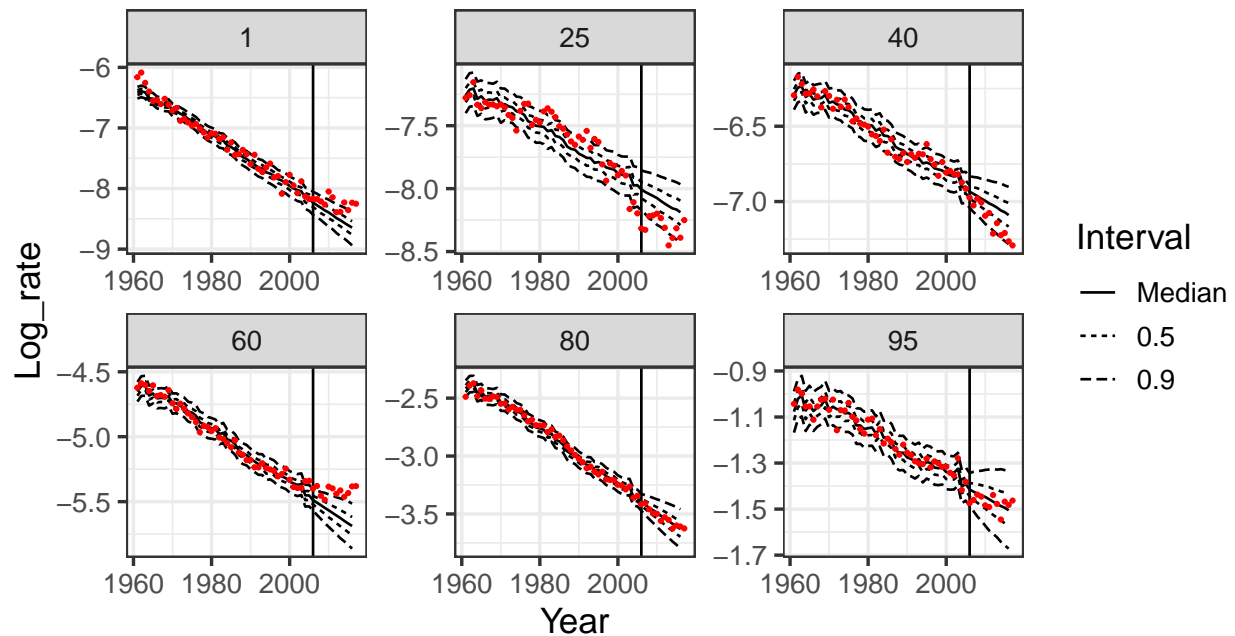
## Log Rate Posterior for selected ages vs Empirical : ESP



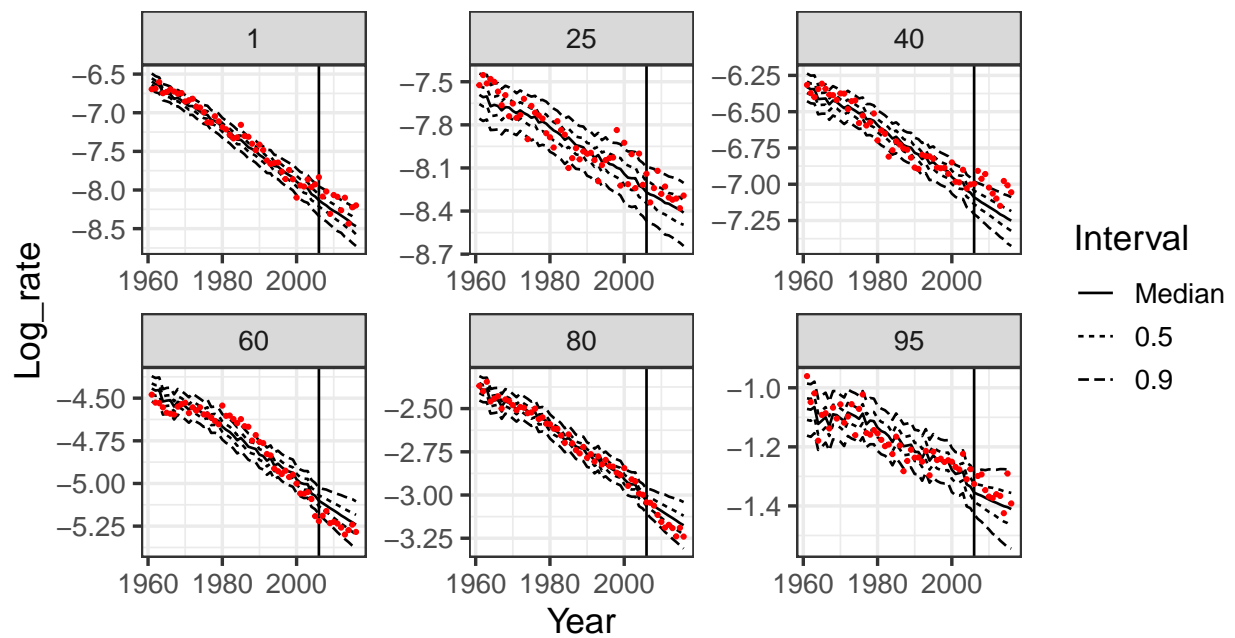
## Log Rate Posterior for selected ages vs Empirical : FIN



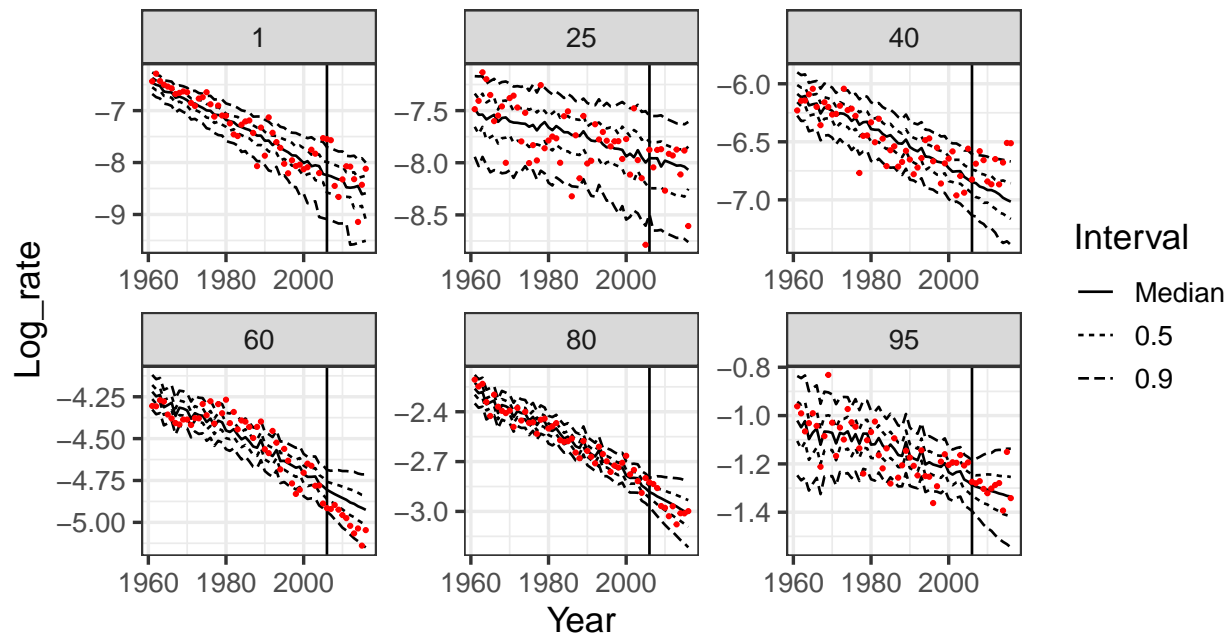
## Log Rate Posterior for selected ages vs Empirical : FRATNP



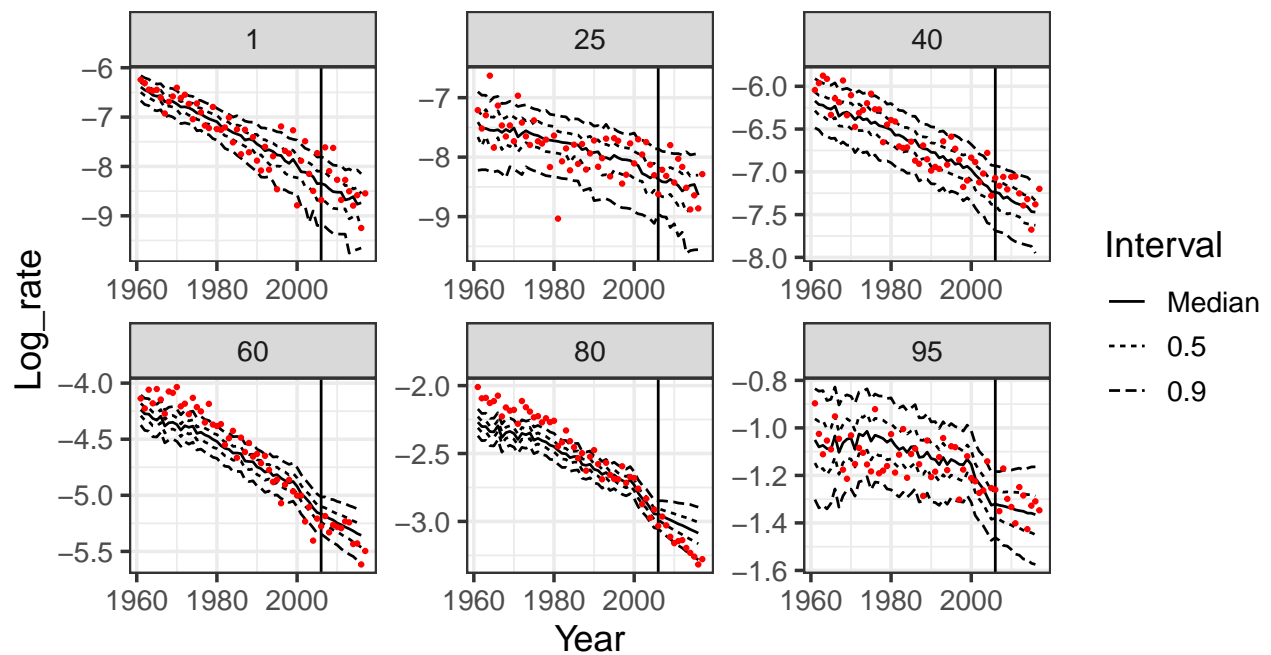
## Log Rate Posterior for selected ages vs Empirical : GBRTEI



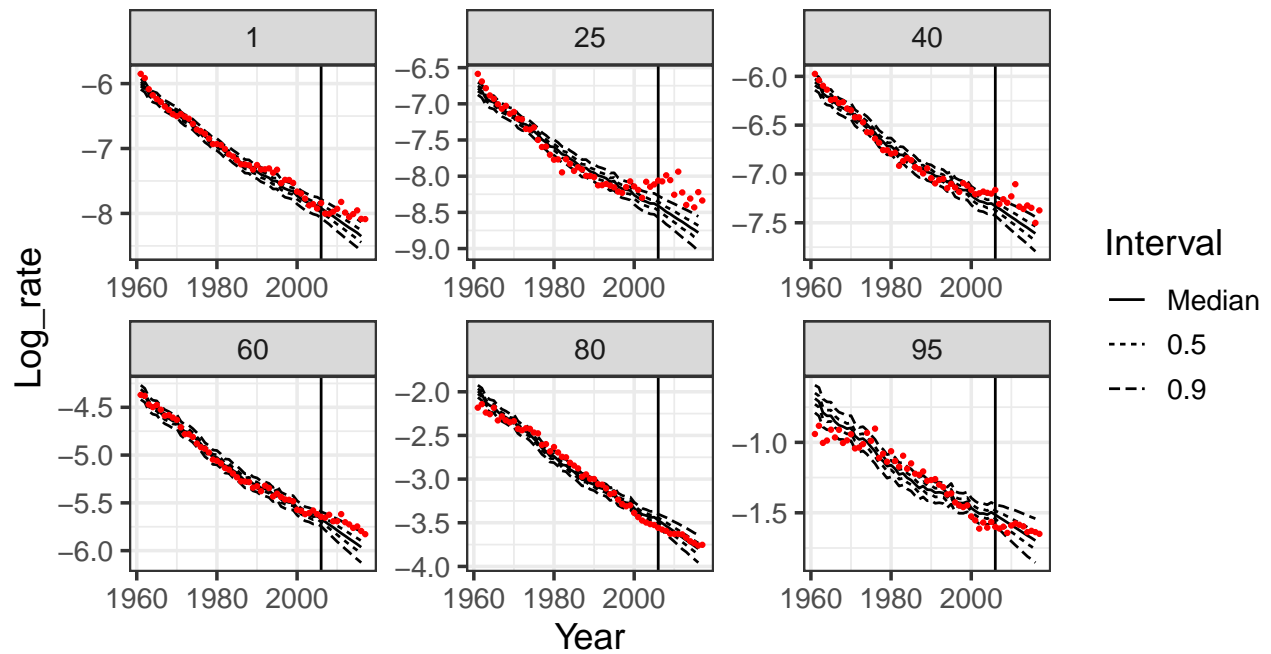
Log Rate Posterior for selected ages vs Empirical : GBR\_S(



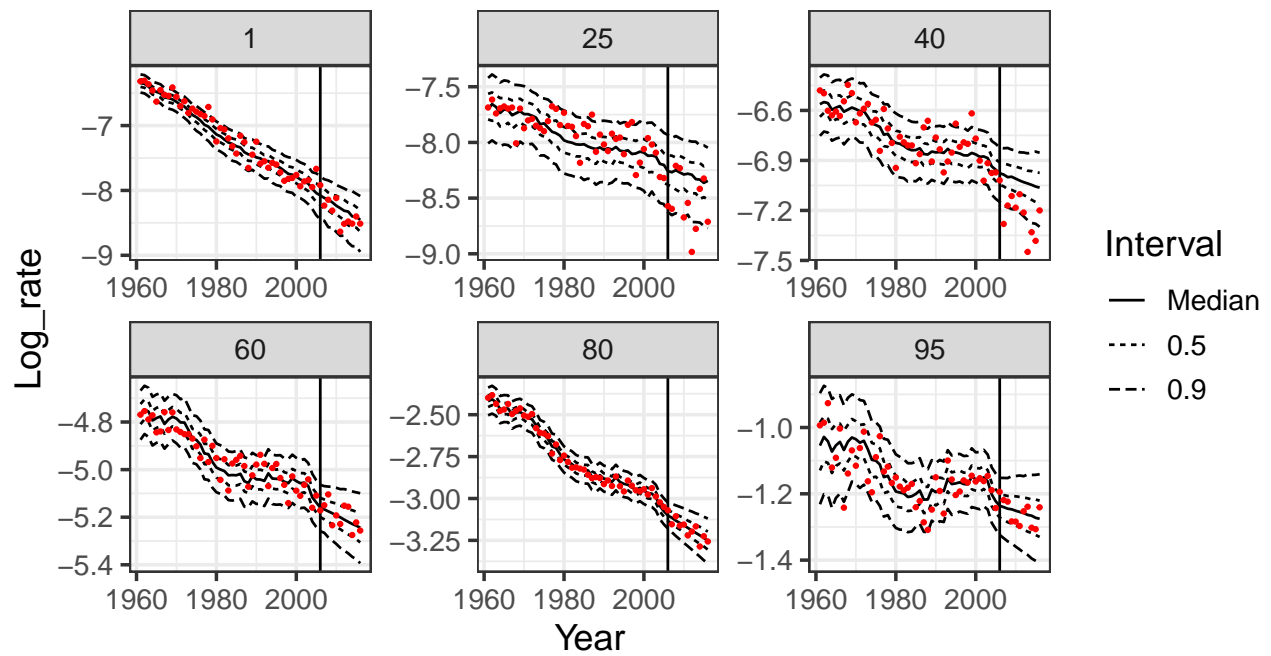
Log Rate Posterior for selected ages vs Empirical : IRL



## Log Rate Posterior for selected ages vs Empirical : JPN

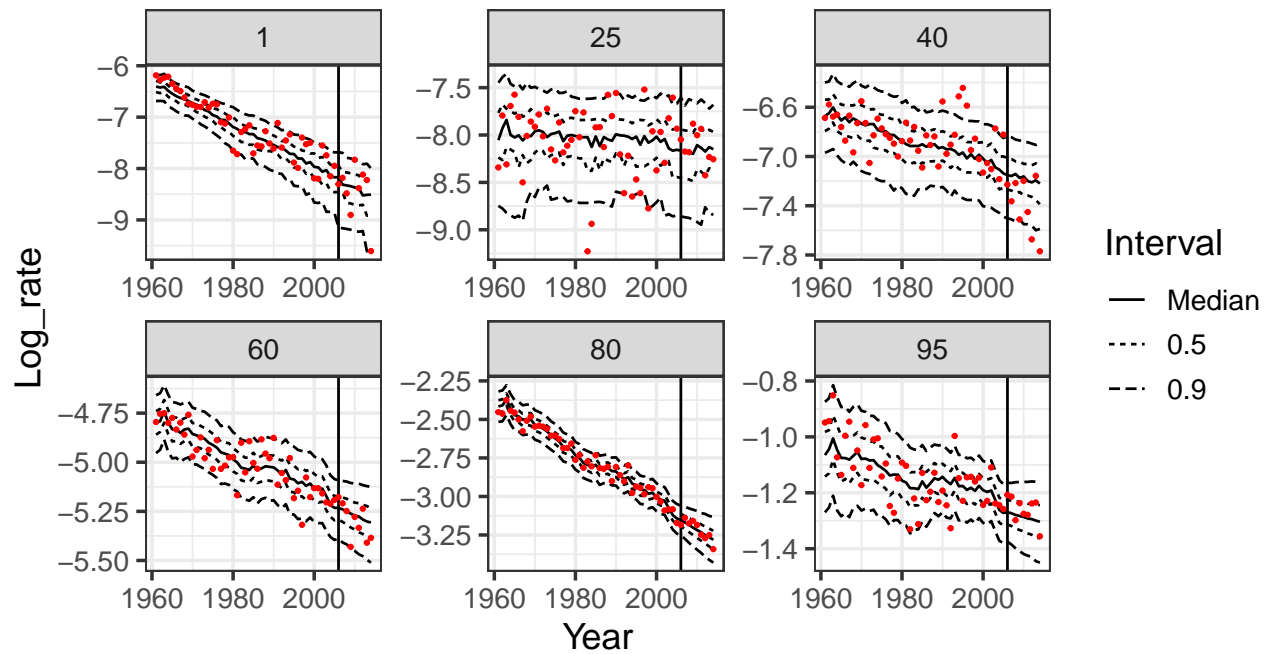


## Log Rate Posterior for selected ages vs Empirical : NLD

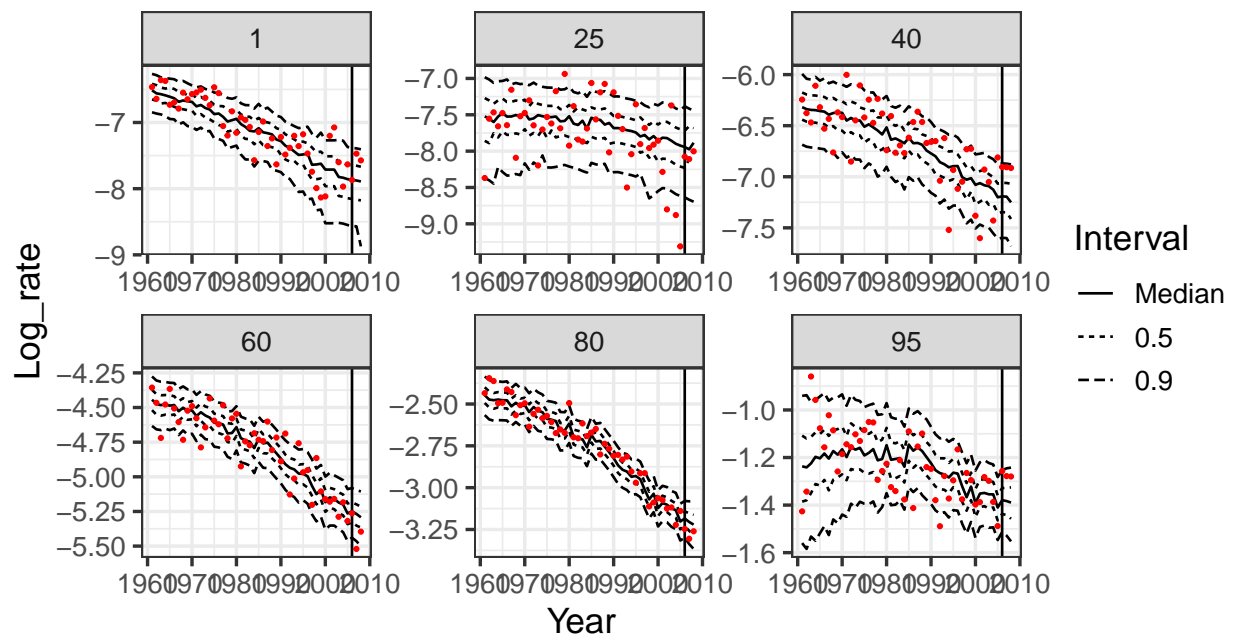




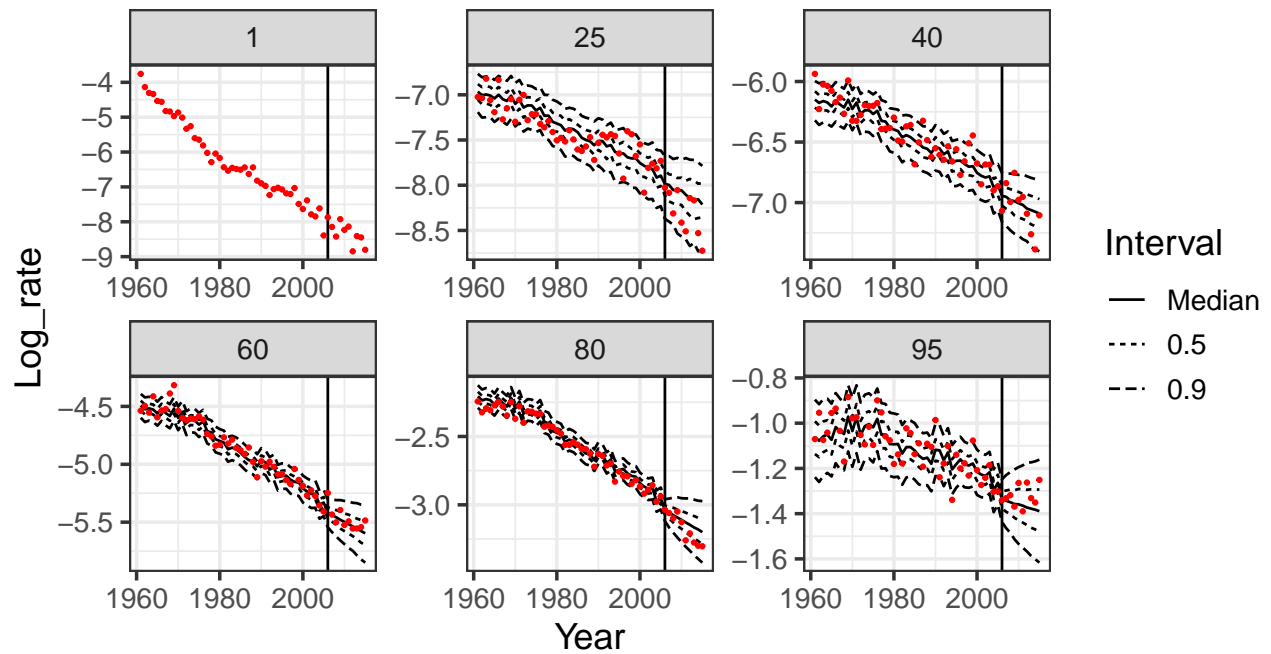
## Log Rate Posterior for selected ages vs Empirical : NOR



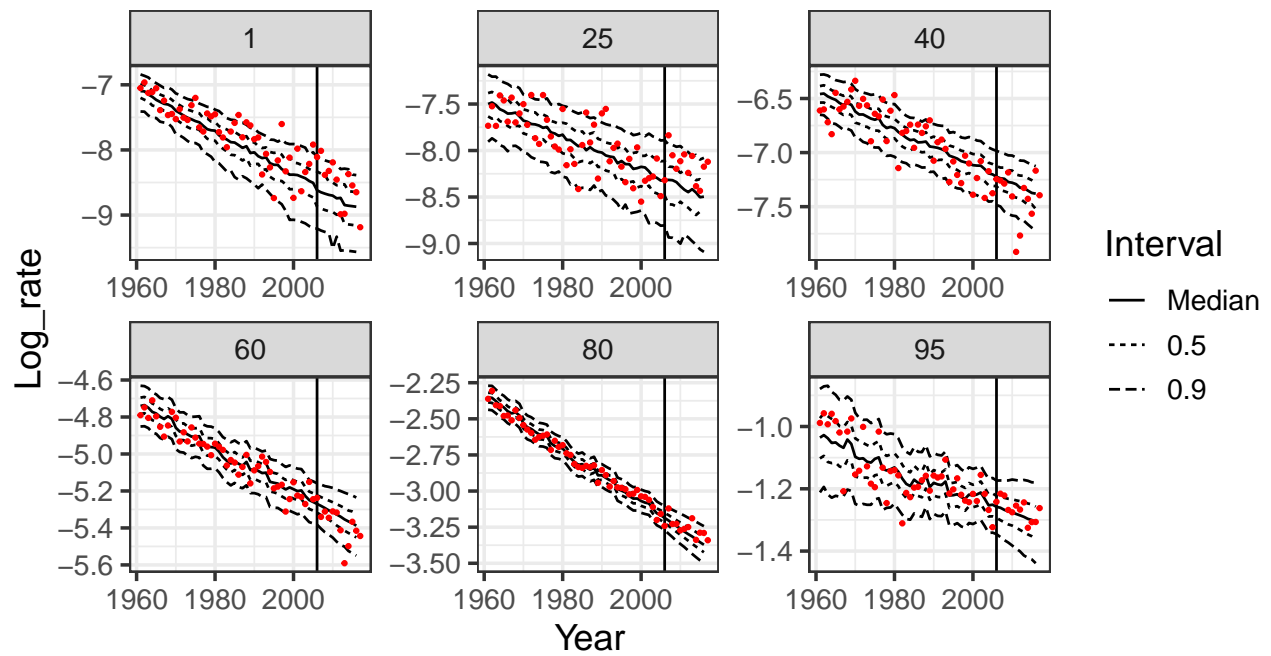
## Log Rate Posterior for selected ages vs Empirical : NZL\_NM



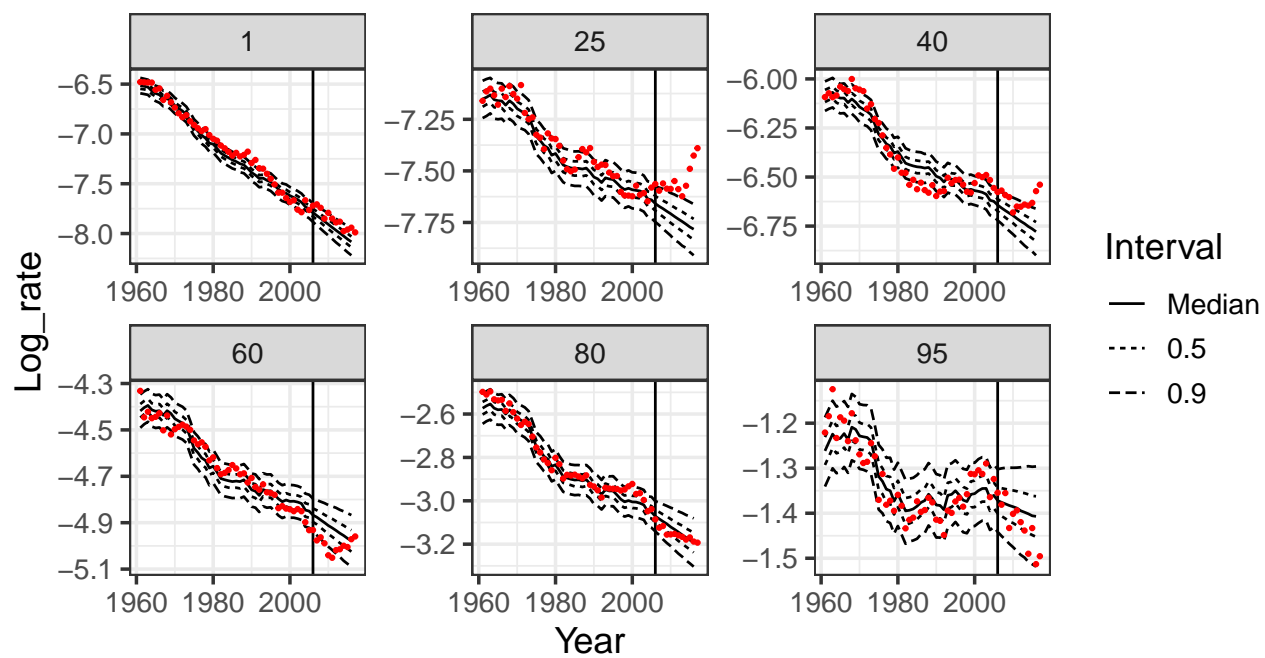
## Log Rate Posterior for selected ages vs Empirical : PRT



## Log Rate Posterior for selected ages vs Empirical : SWE

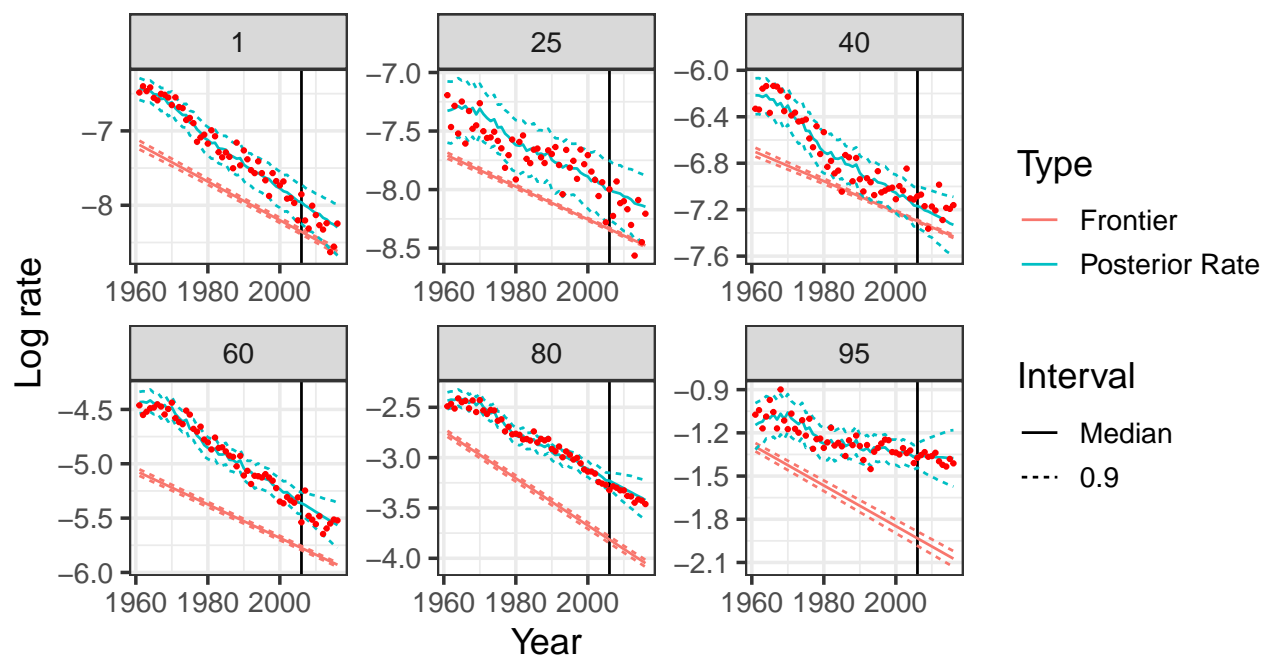


## Log Rate Posterior for selected ages vs Empirical : USA

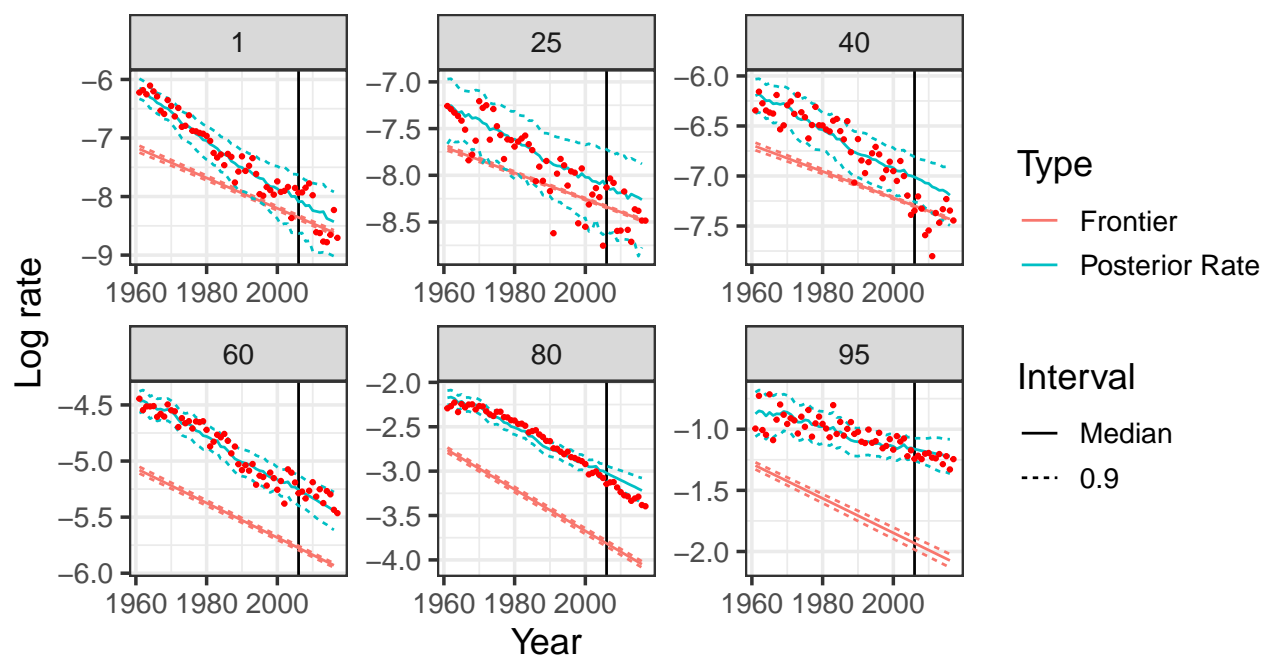


## 2 Country Forecast Plots - Linear Model

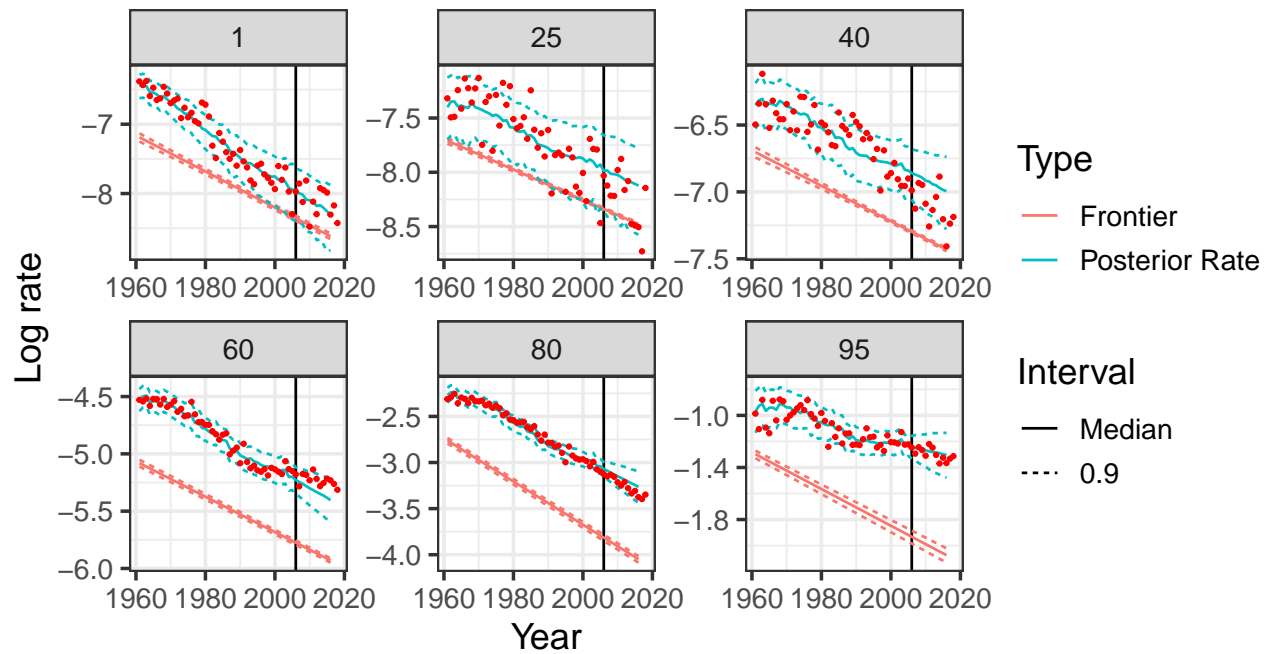
Log Rate Posterior for selected ages vs Empirical : AUS



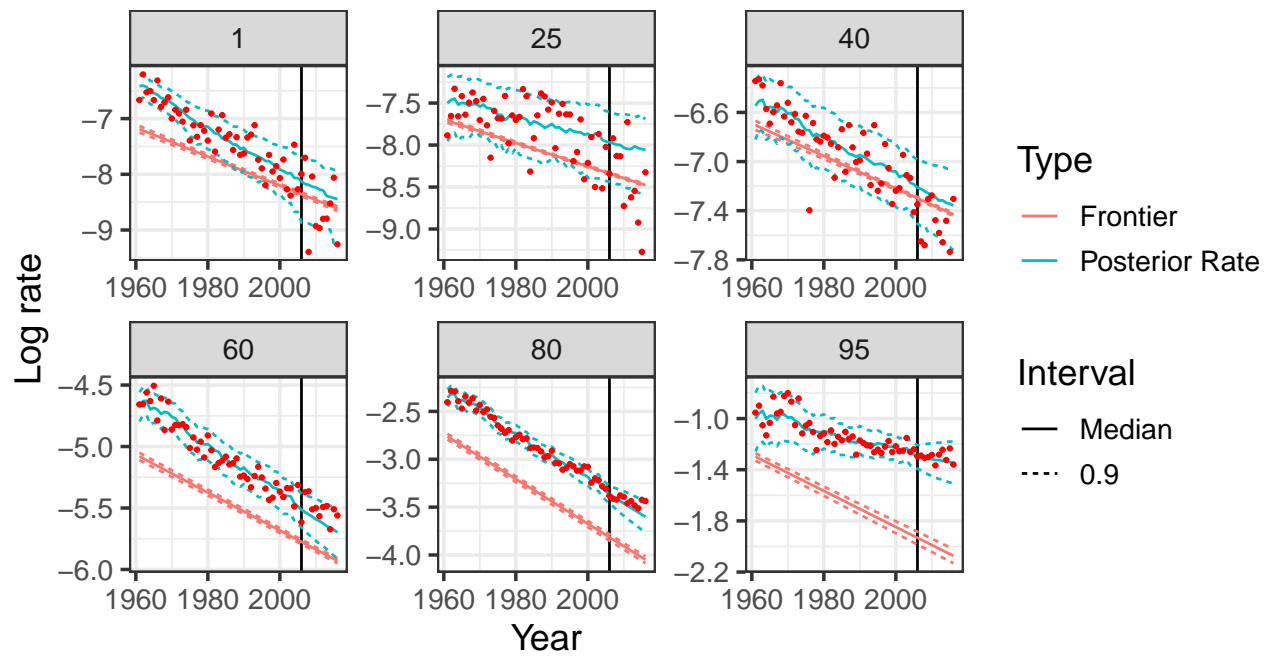
Log Rate Posterior for selected ages vs Empirical : AUT



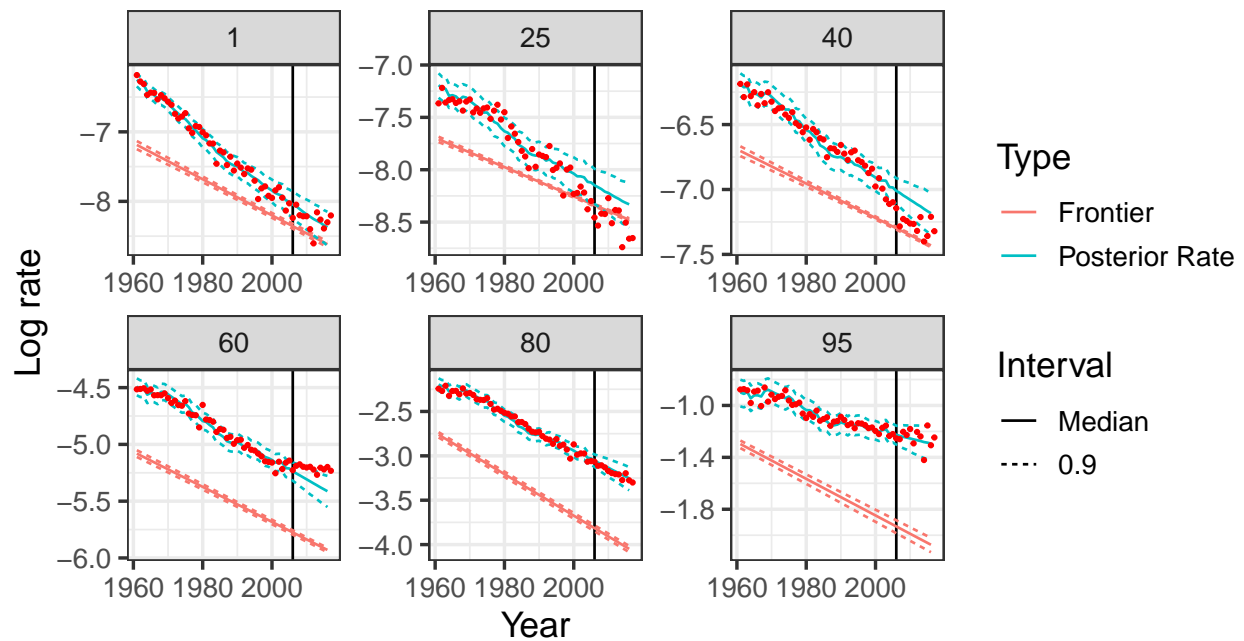
## Log Rate Posterior for selected ages vs Empirical : BEL



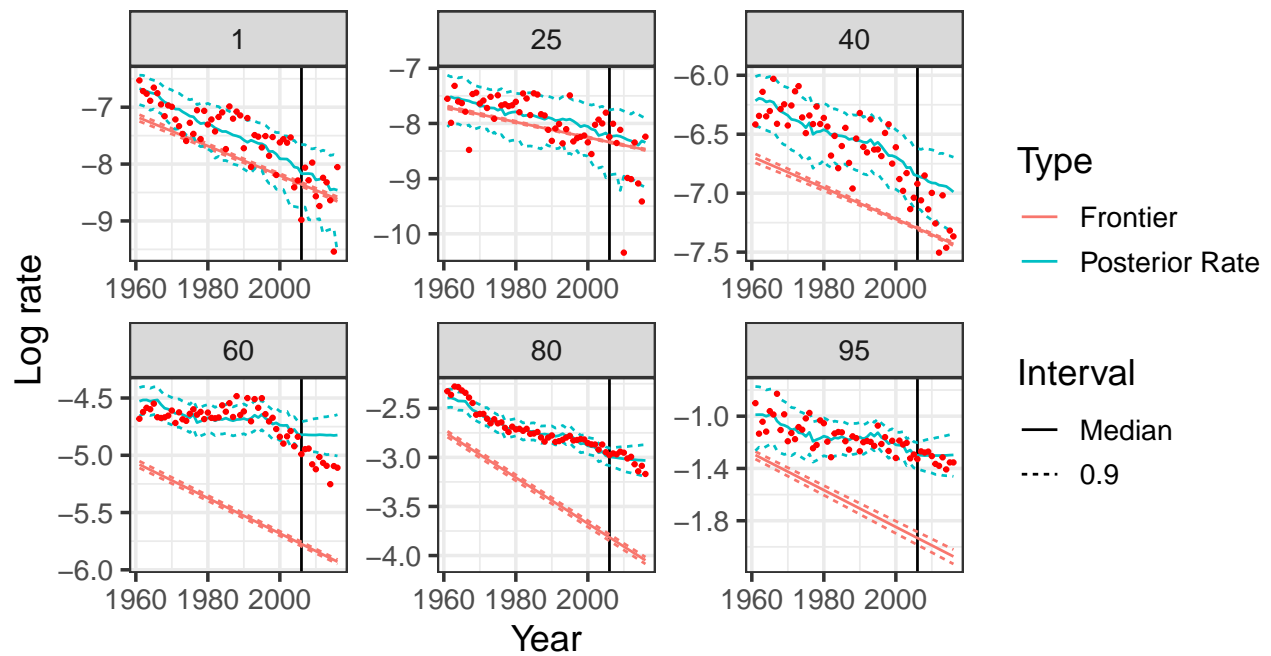
## Log Rate Posterior for selected ages vs Empirical : CHE



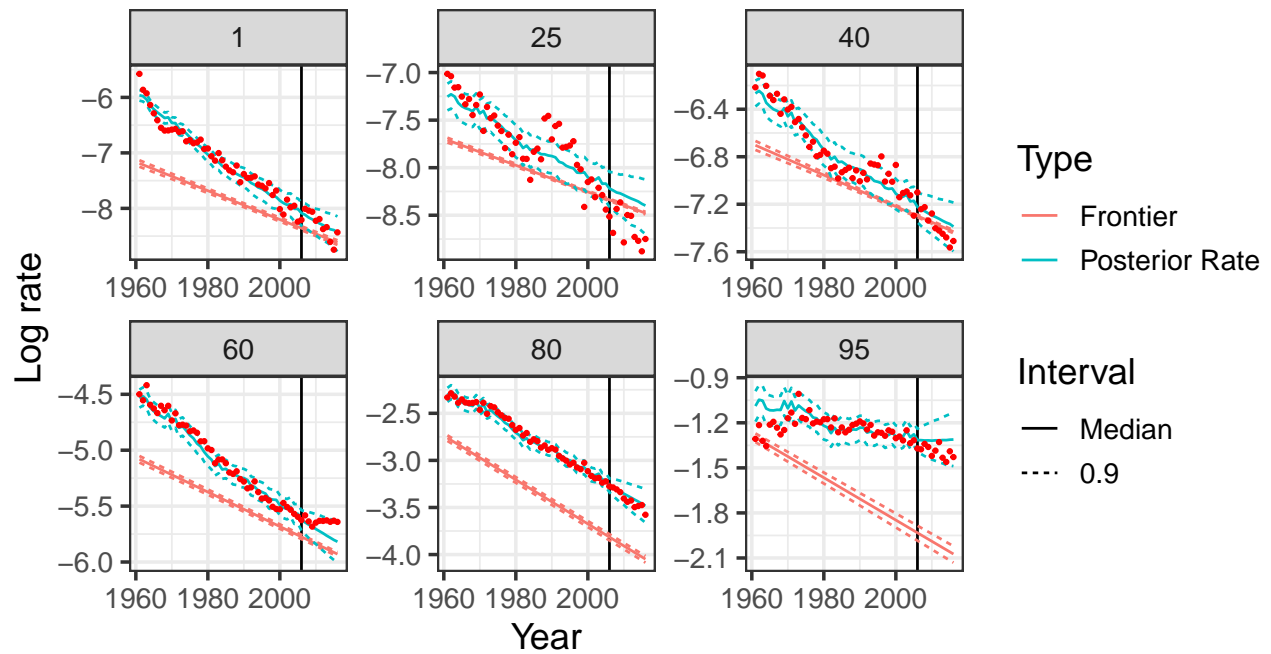
## Log Rate Posterior for selected ages vs Empirical : DEUTW



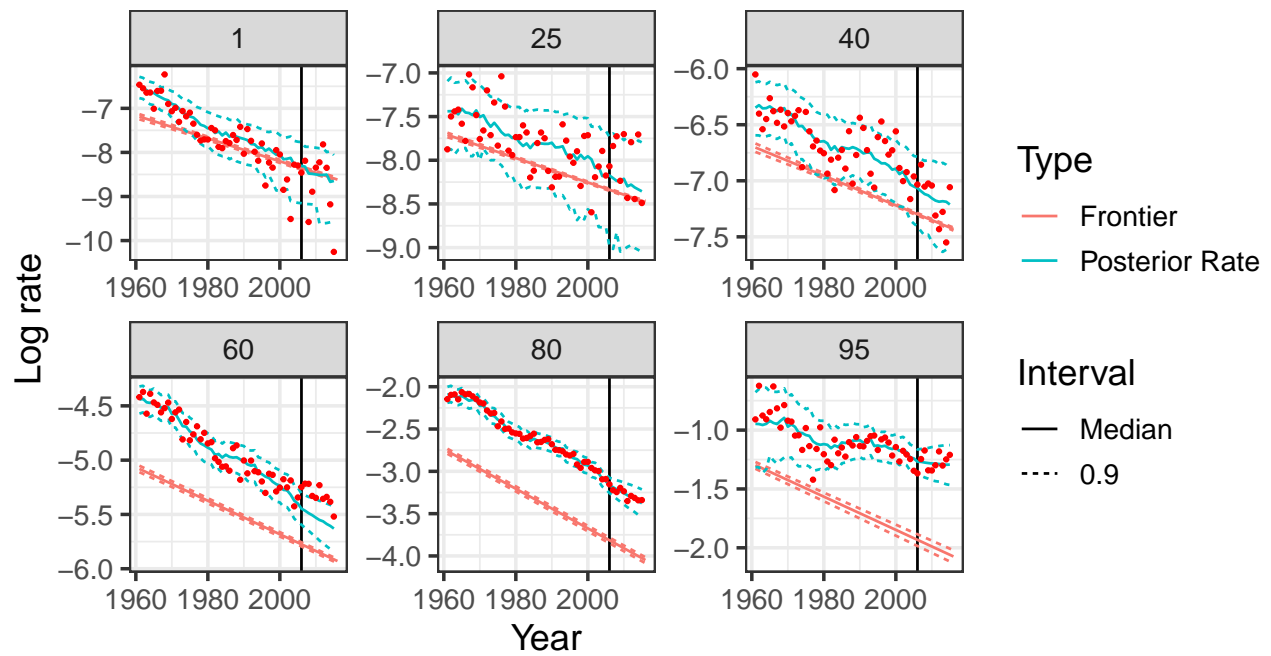
## Log Rate Posterior for selected ages vs Empirical : DNK



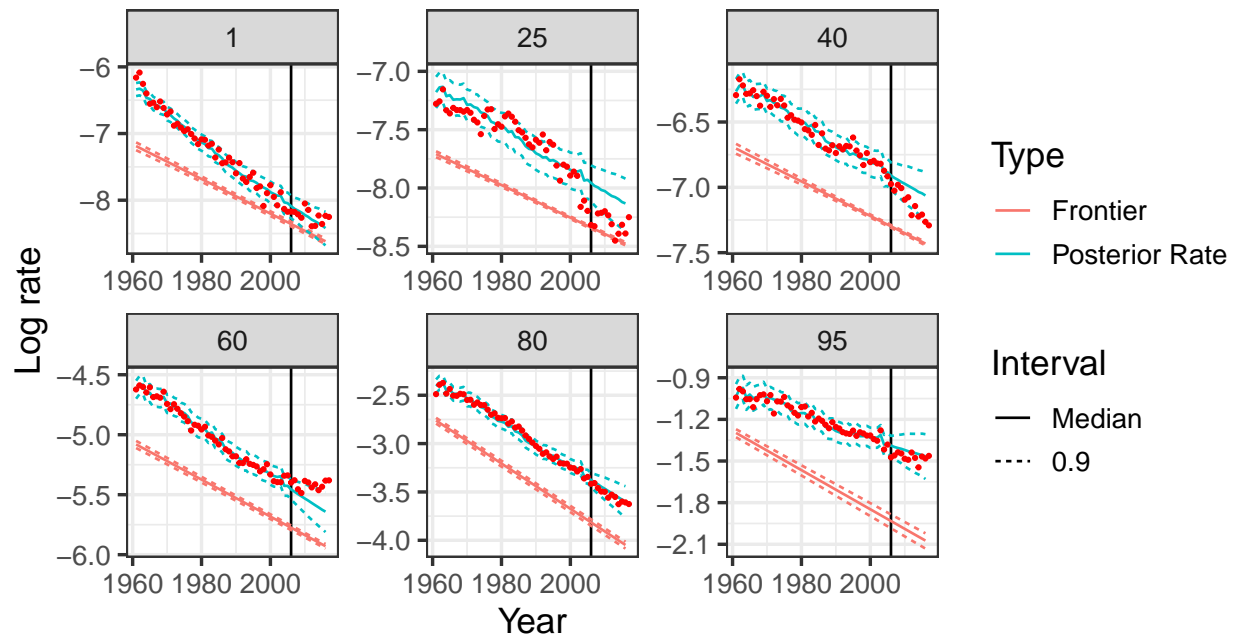
## Log Rate Posterior for selected ages vs Empirical : ESP



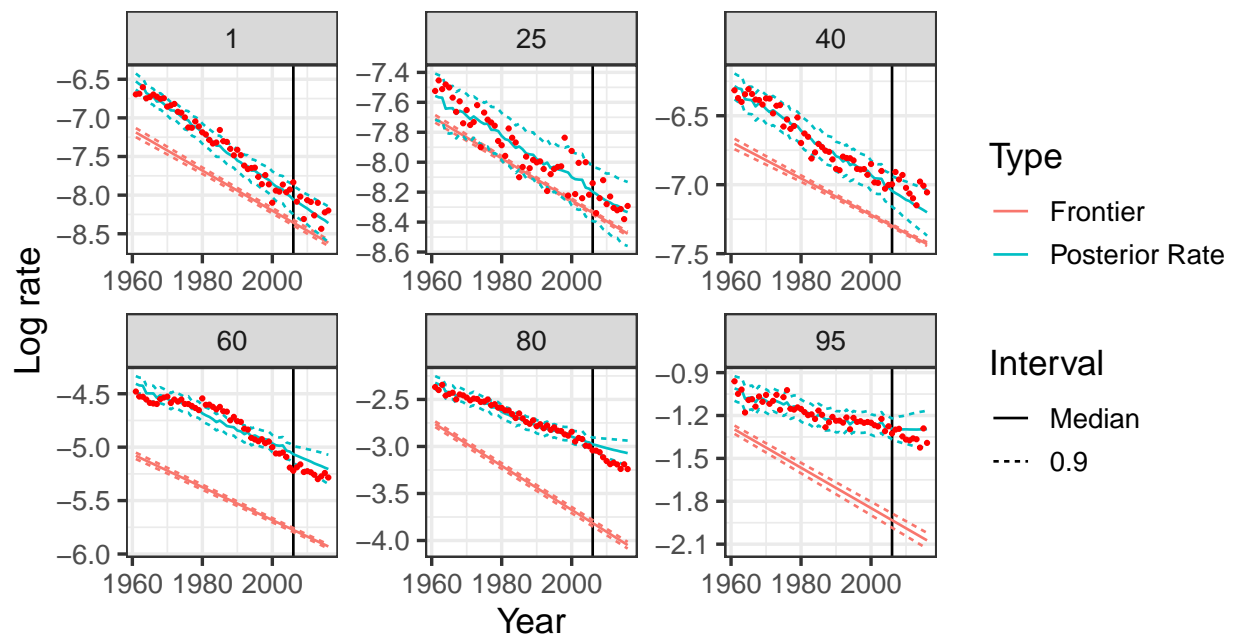
## Log Rate Posterior for selected ages vs Empirical : FIN



## Log Rate Posterior for selected ages vs Empirical : FRATNP

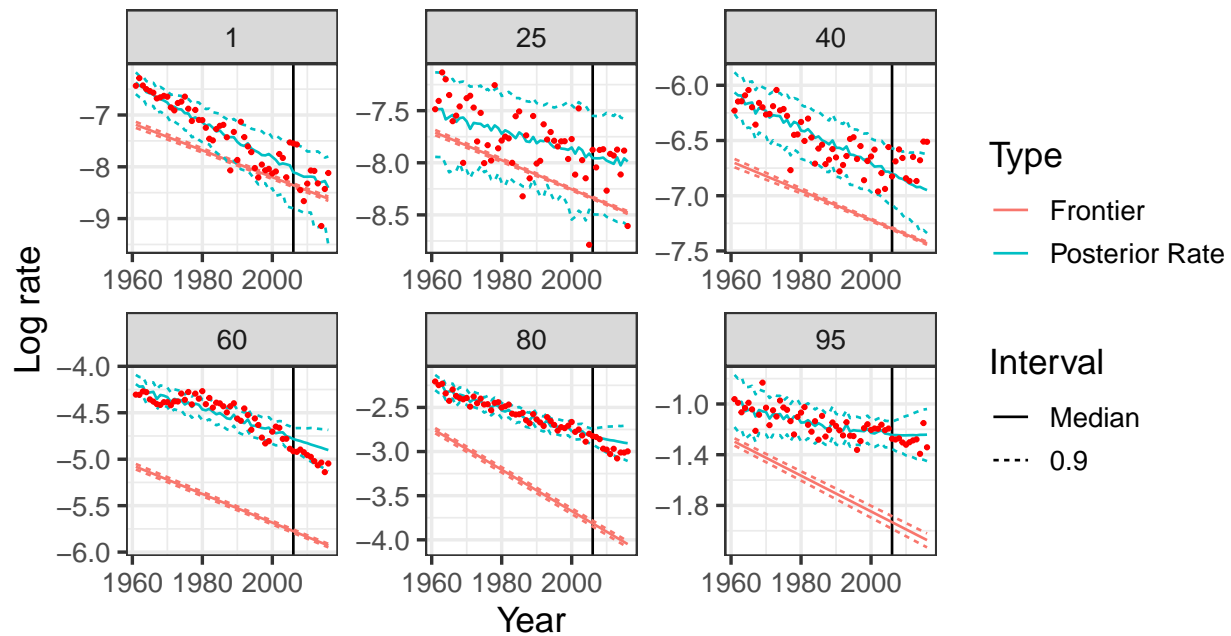


## Log Rate Posterior for selected ages vs Empirical : GBRTEN

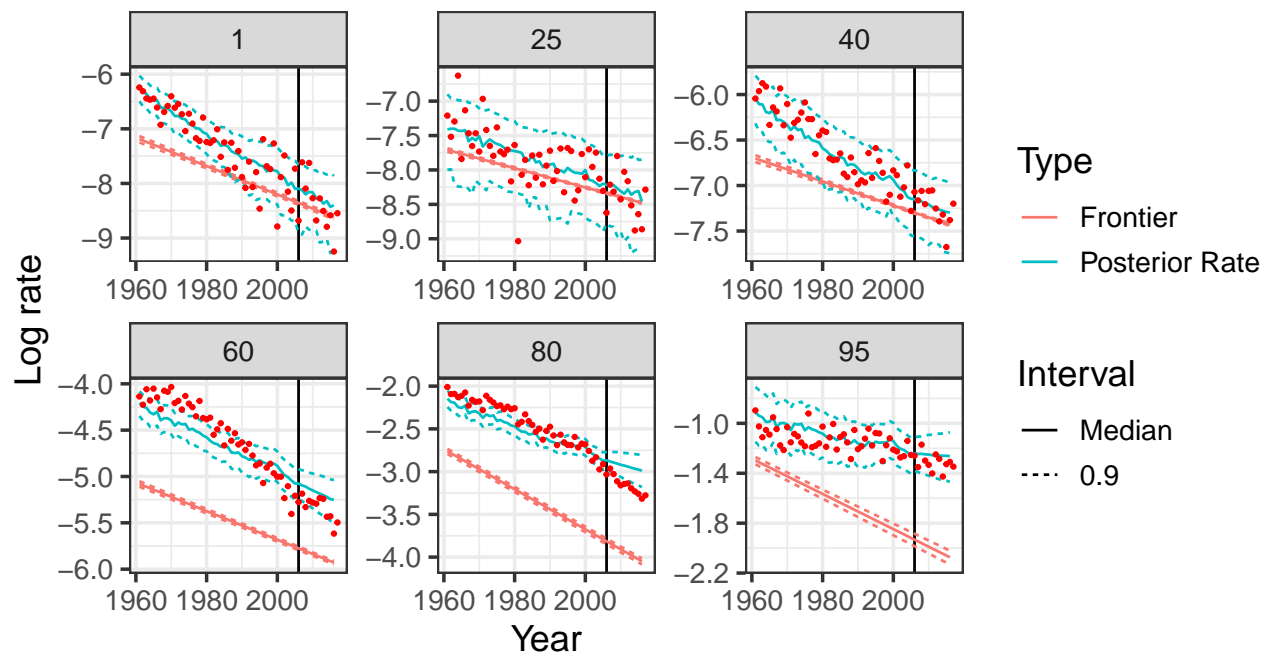




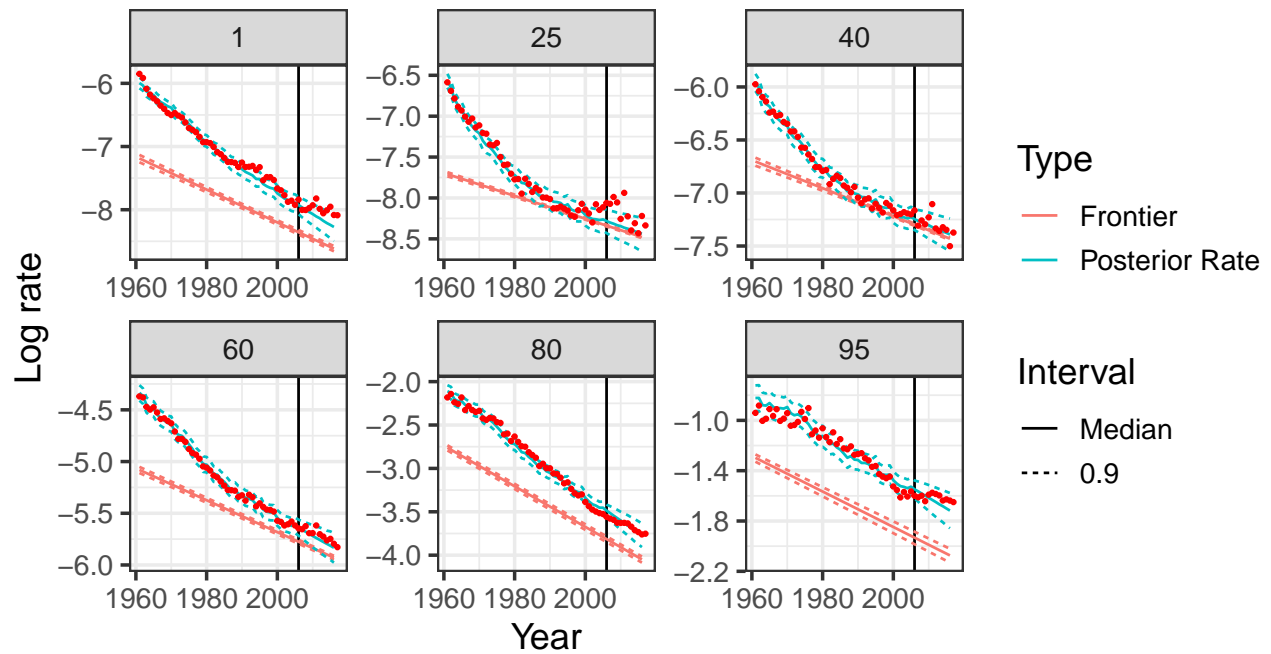
## Log Rate Posterior for selected ages vs Empirical : GBR\_SC



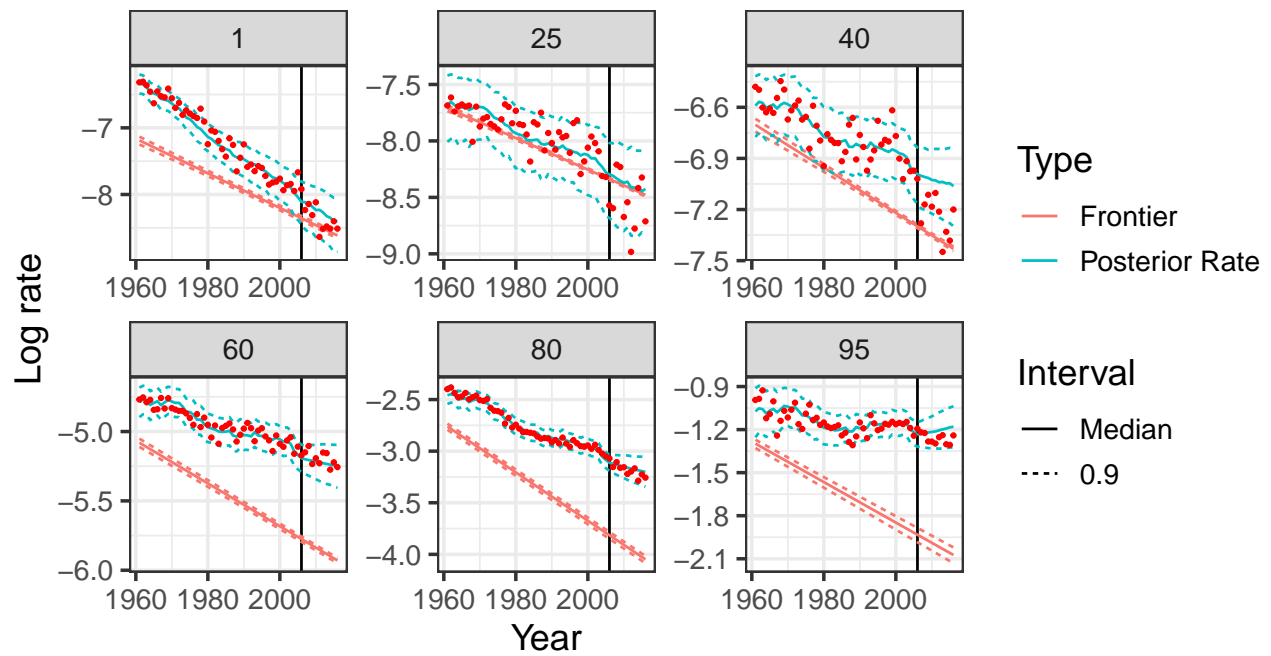
## Log Rate Posterior for selected ages vs Empirical : IRL



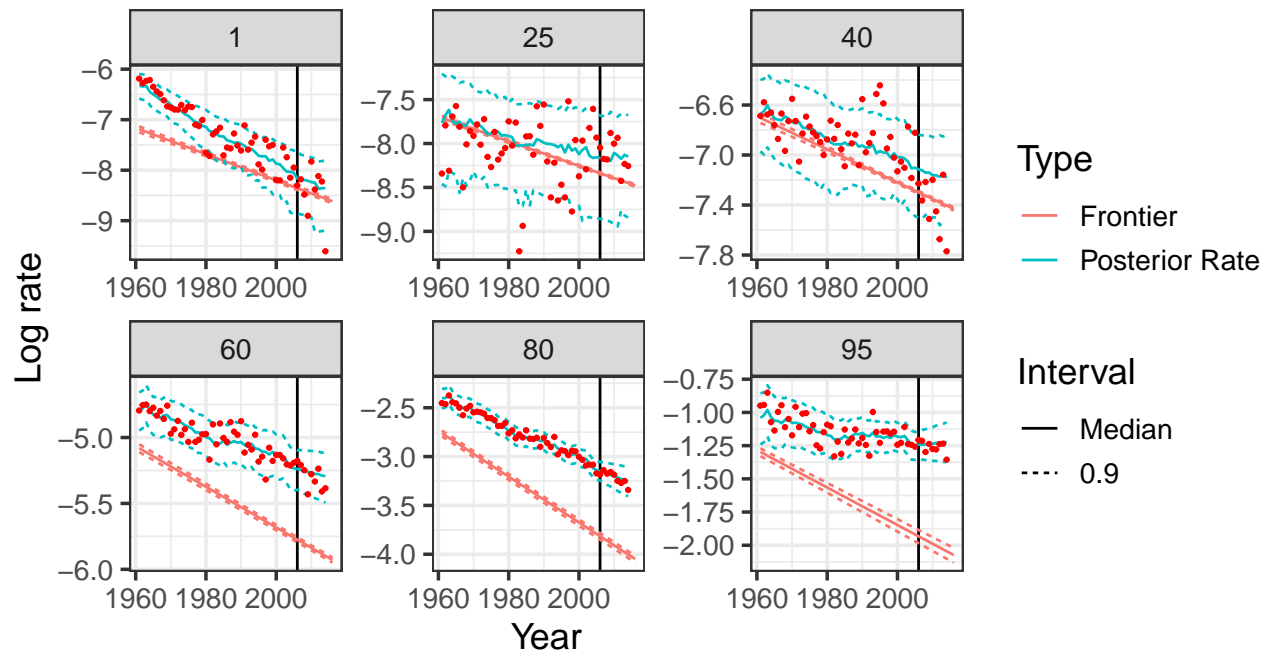
## Log Rate Posterior for selected ages vs Empirical : JPN



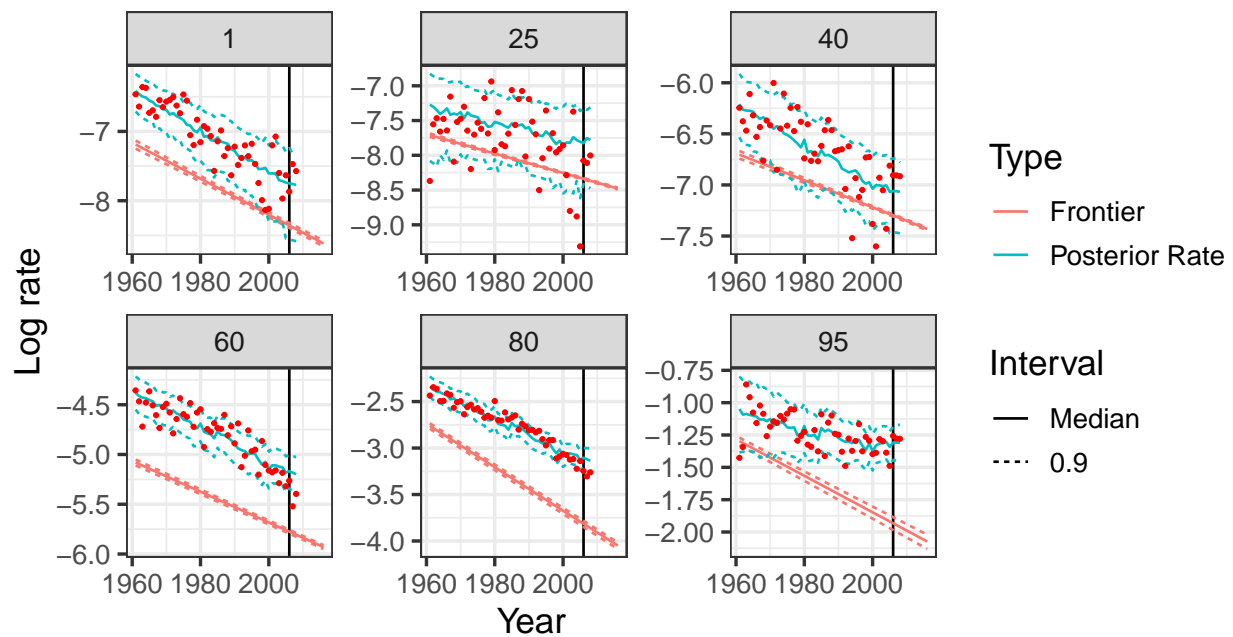
## Log Rate Posterior for selected ages vs Empirical : NLD



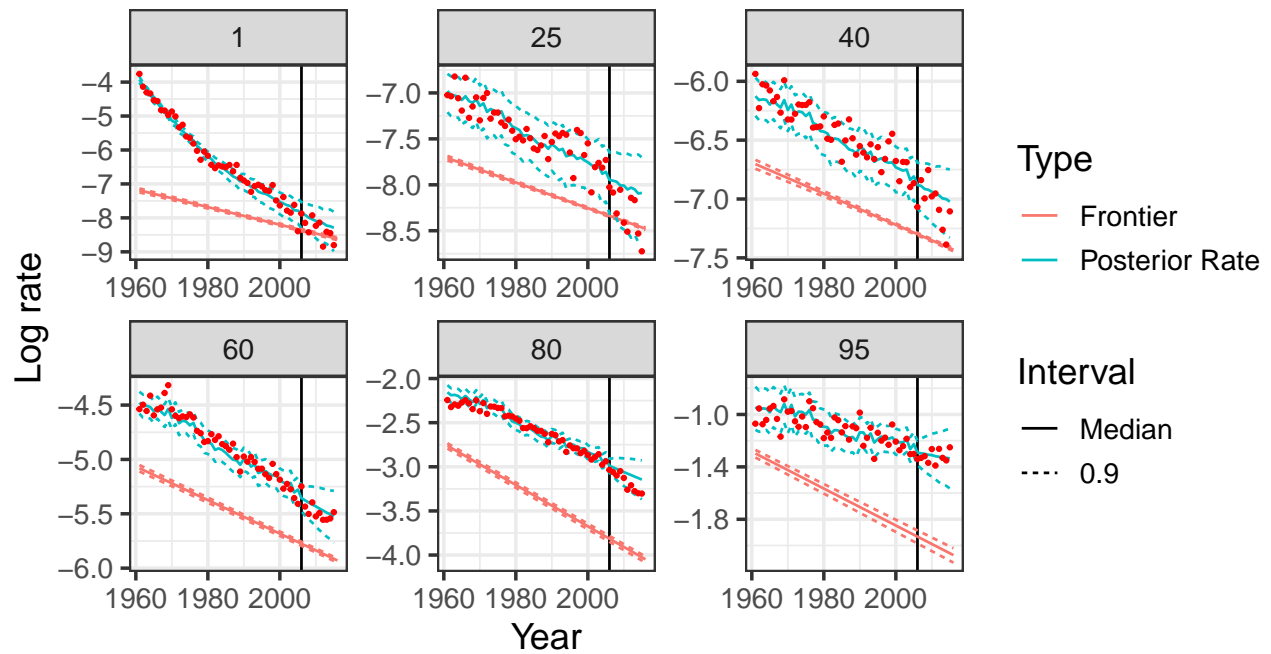
## Log Rate Posterior for selected ages vs Empirical : NOR



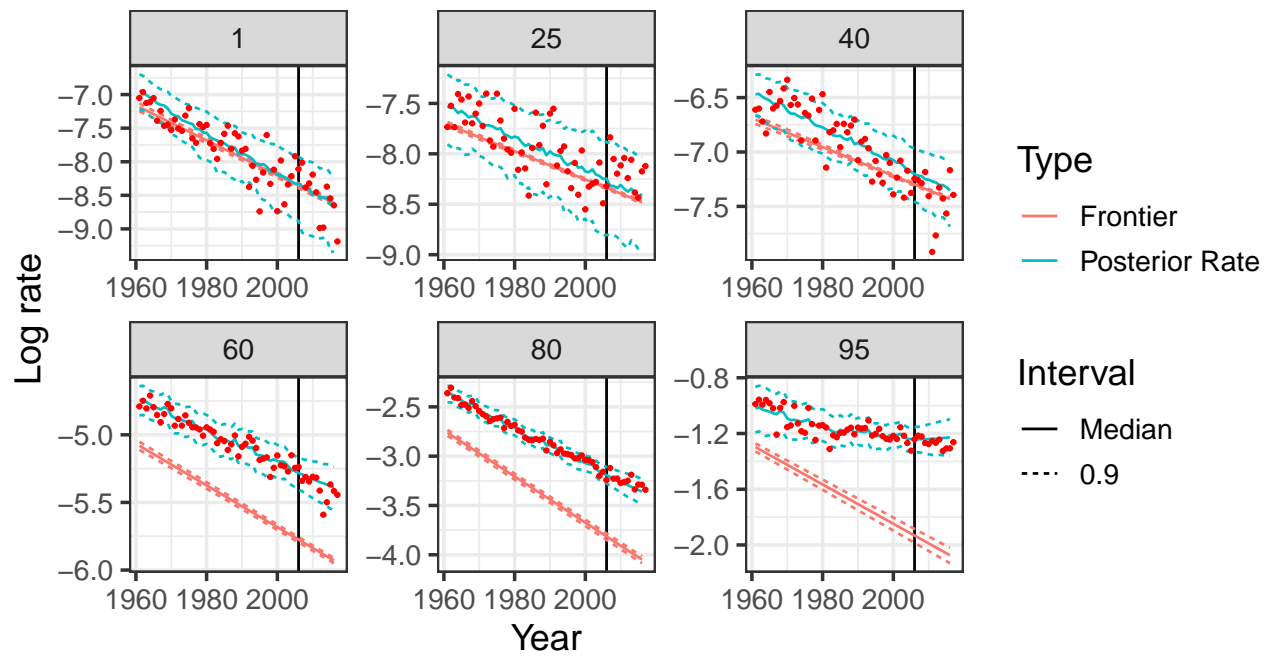
## Log Rate Posterior for selected ages vs Empirical : NZL\_NM



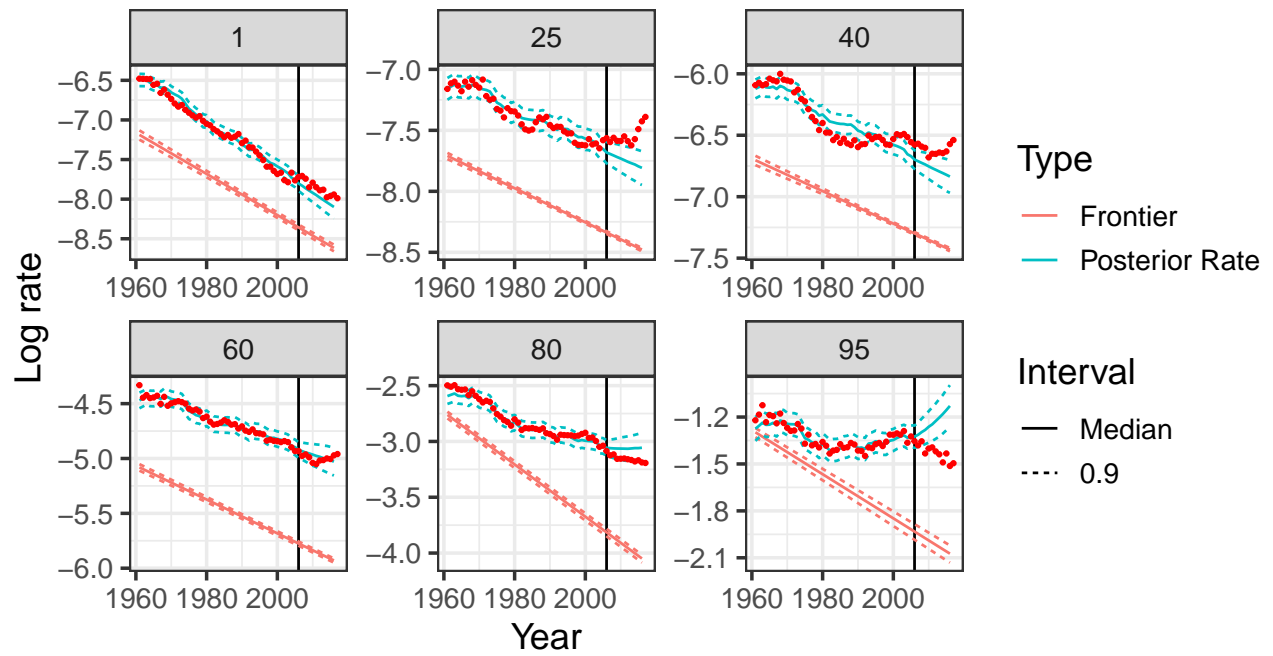
## Log Rate Posterior for selected ages vs Empirical : PRT



## Log Rate Posterior for selected ages vs Empirical : SWE

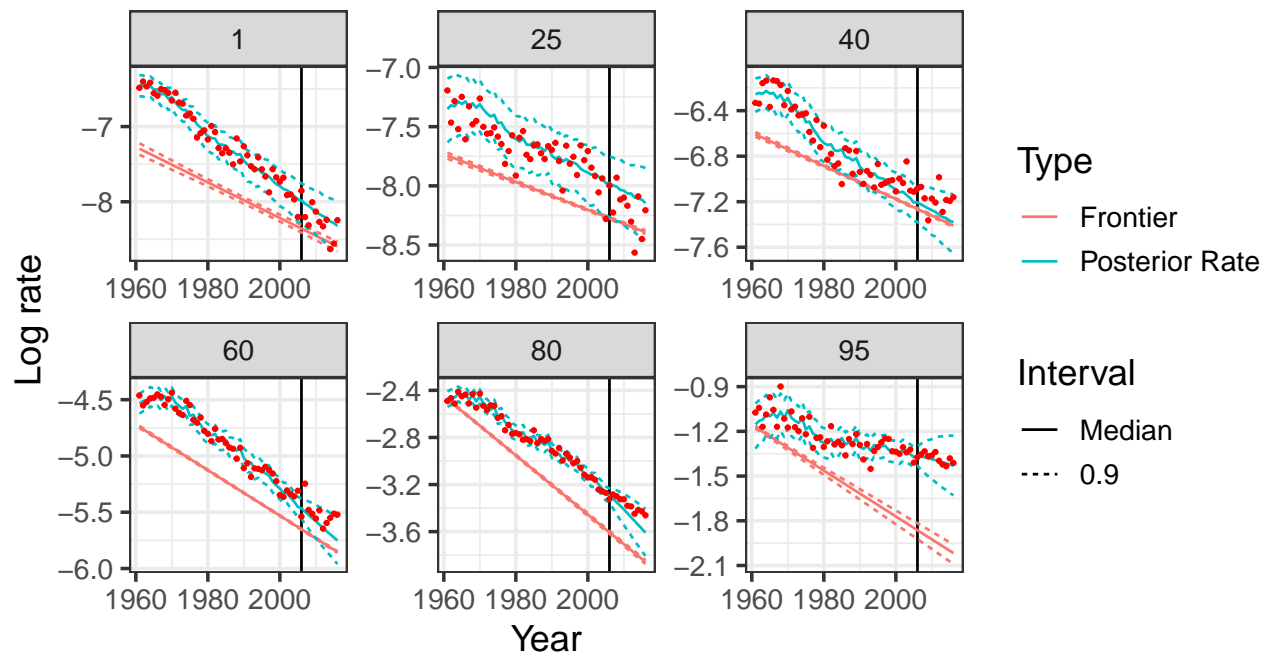


## Log Rate Posterior for selected ages vs Empirical : USA

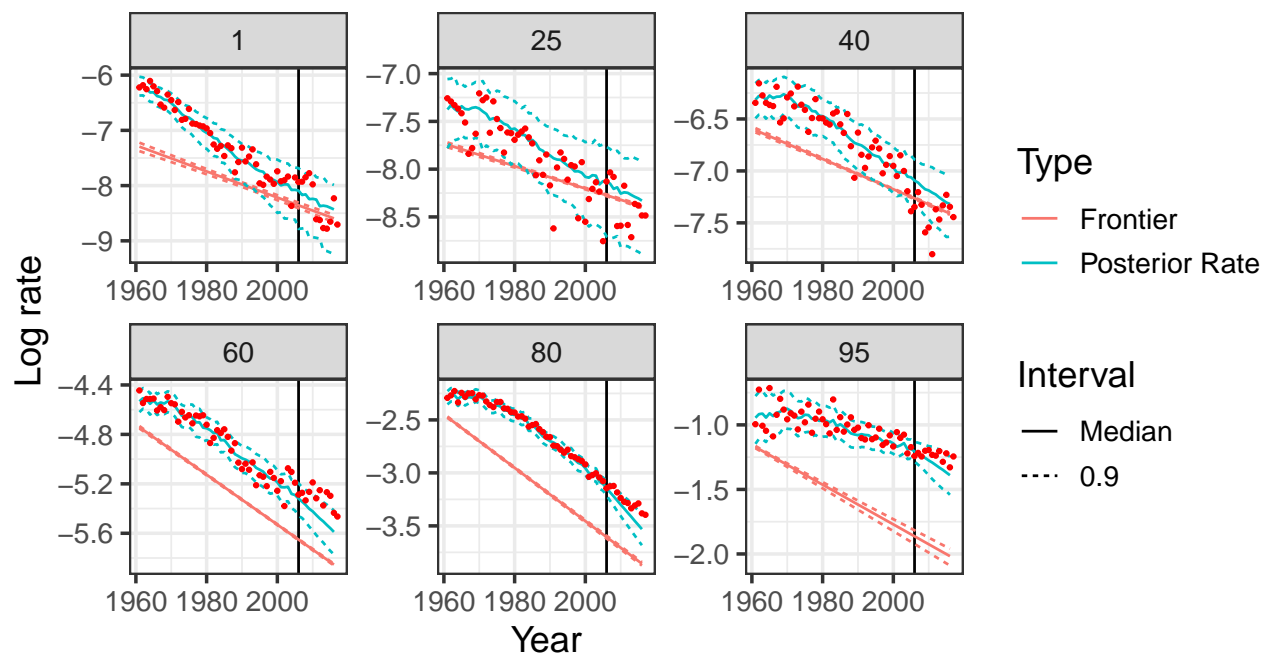


### 3 Country Forecast Plots - Quadratic Model

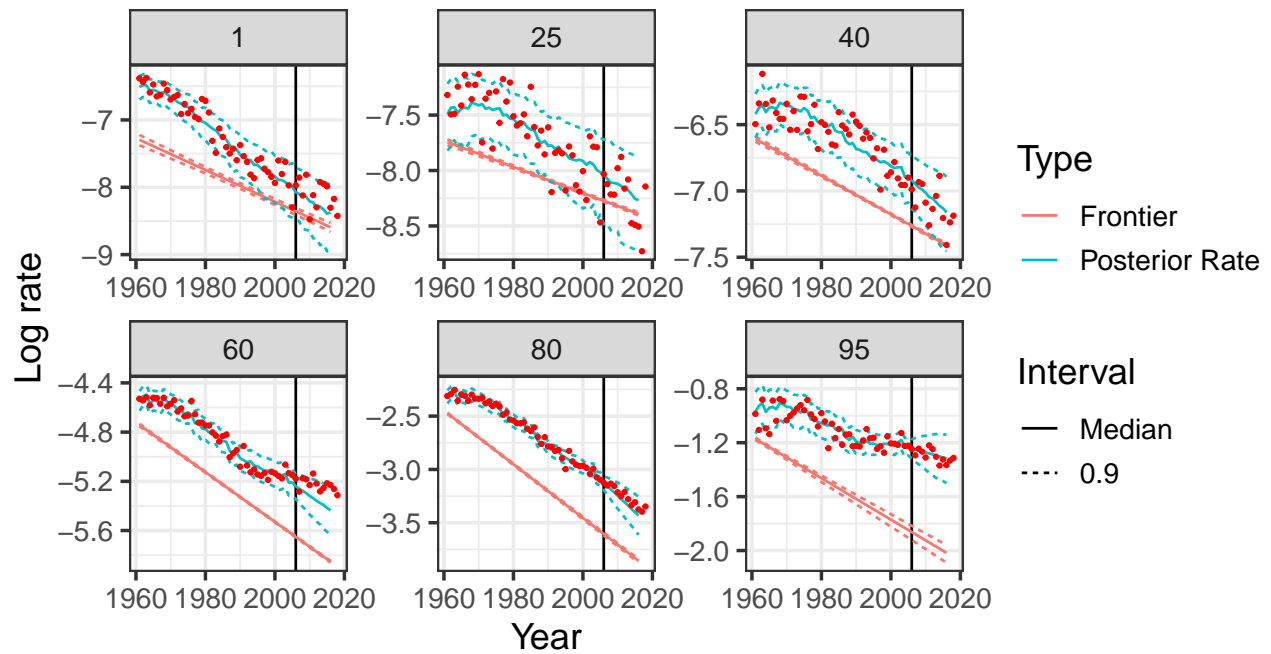
Log Rate Posterior for selected ages vs Empirical : AUS



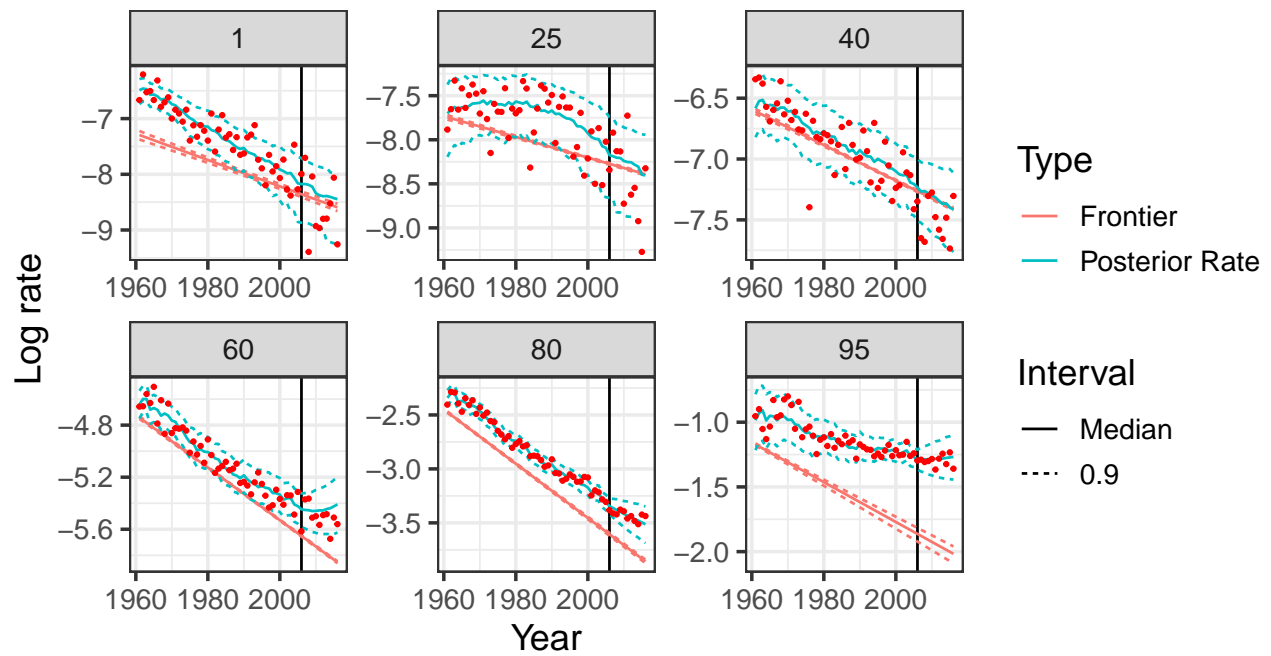
Log Rate Posterior for selected ages vs Empirical : AUT



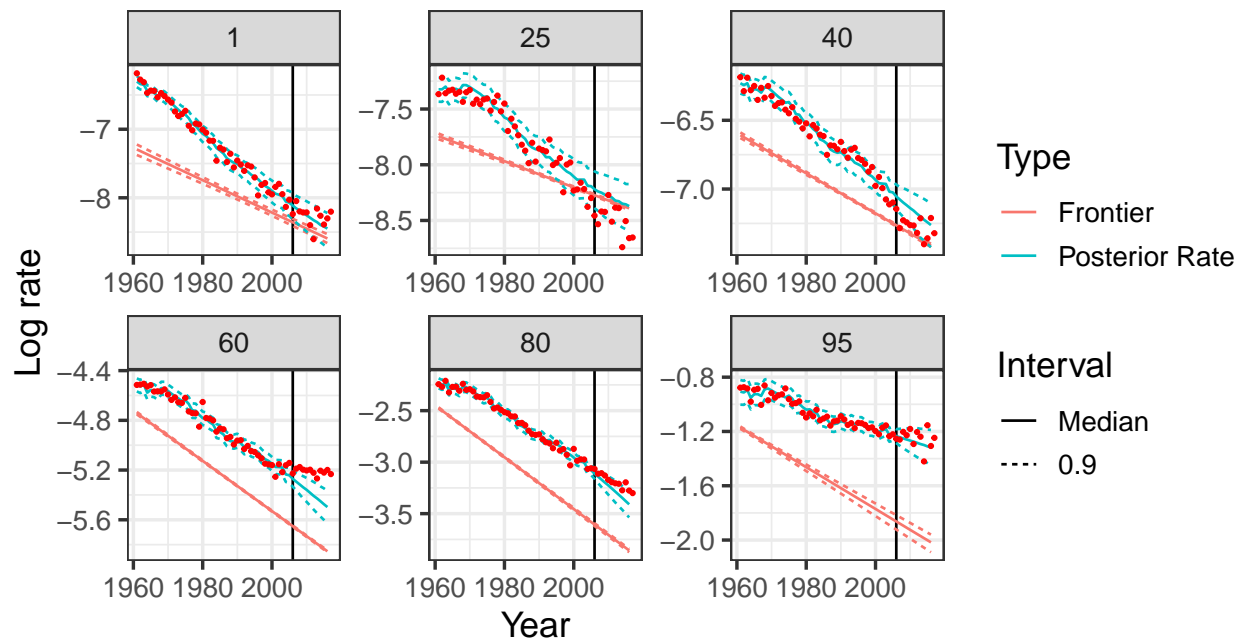
## Log Rate Posterior for selected ages vs Empirical : BEL



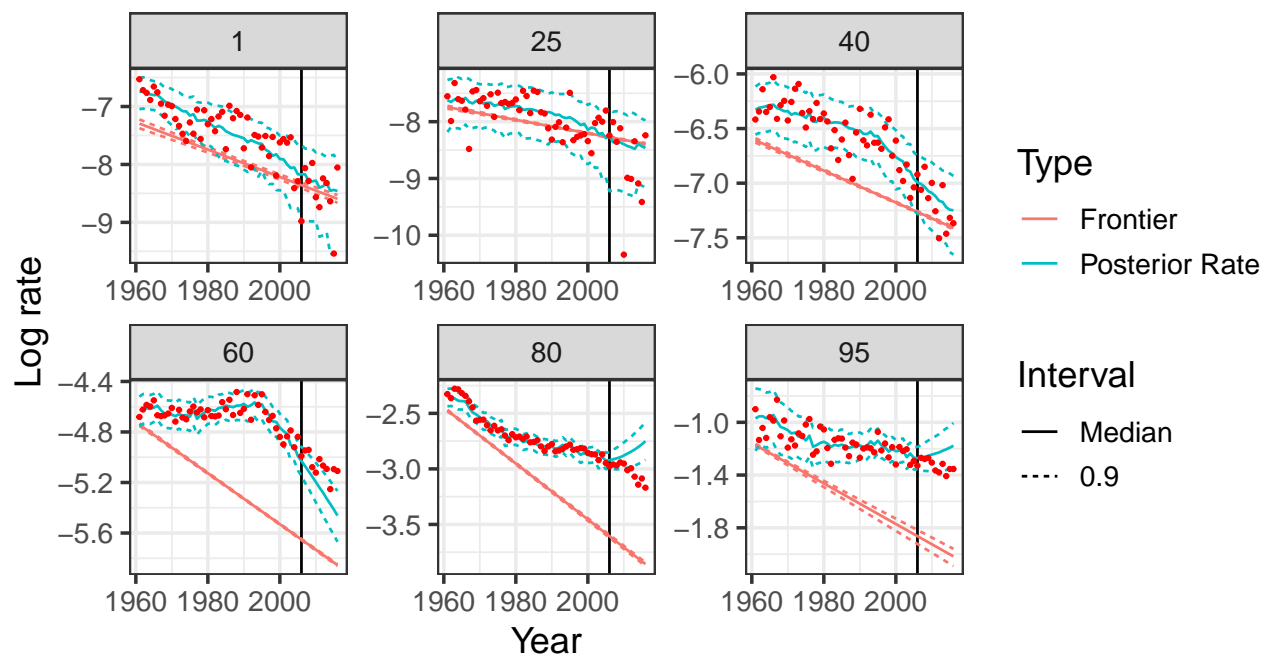
## Log Rate Posterior for selected ages vs Empirical : CHE



## Log Rate Posterior for selected ages vs Empirical : DEUTW

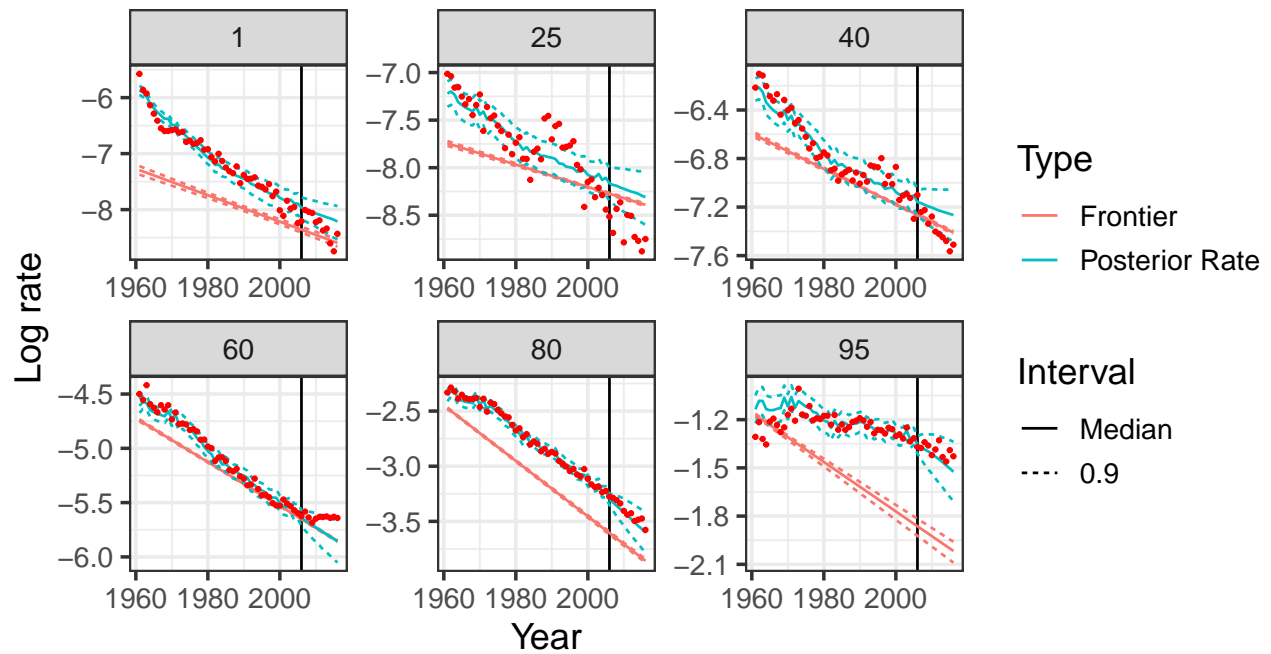


## Log Rate Posterior for selected ages vs Empirical : DNK

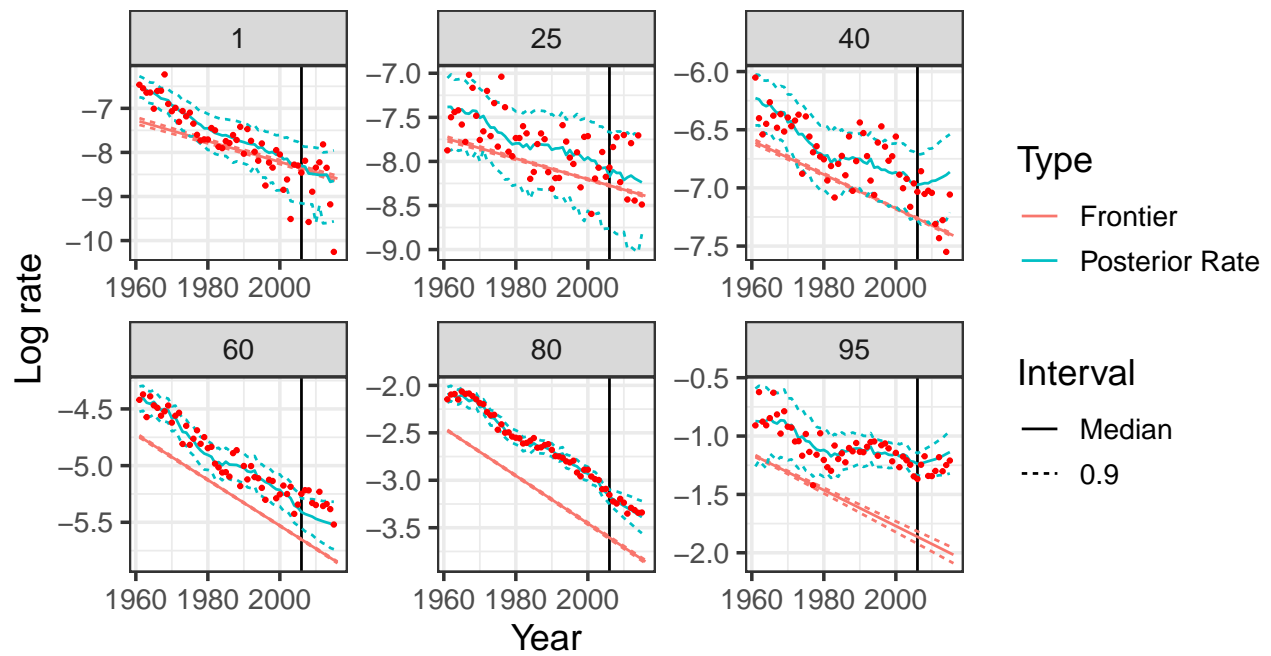




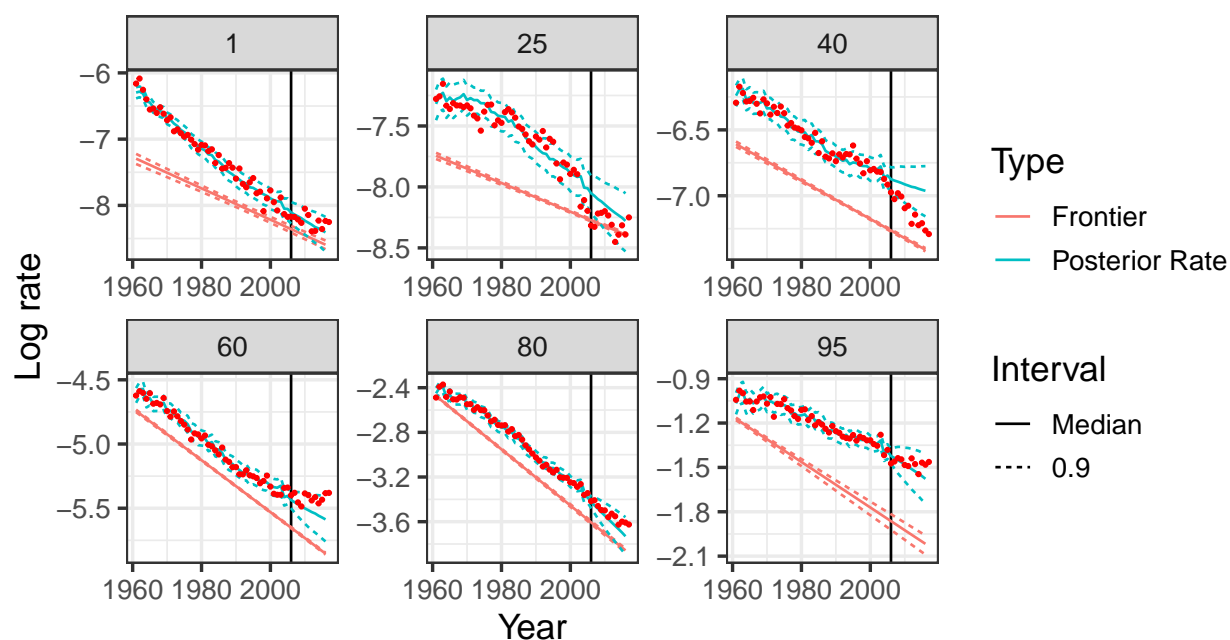
## Log Rate Posterior for selected ages vs Empirical : ESP



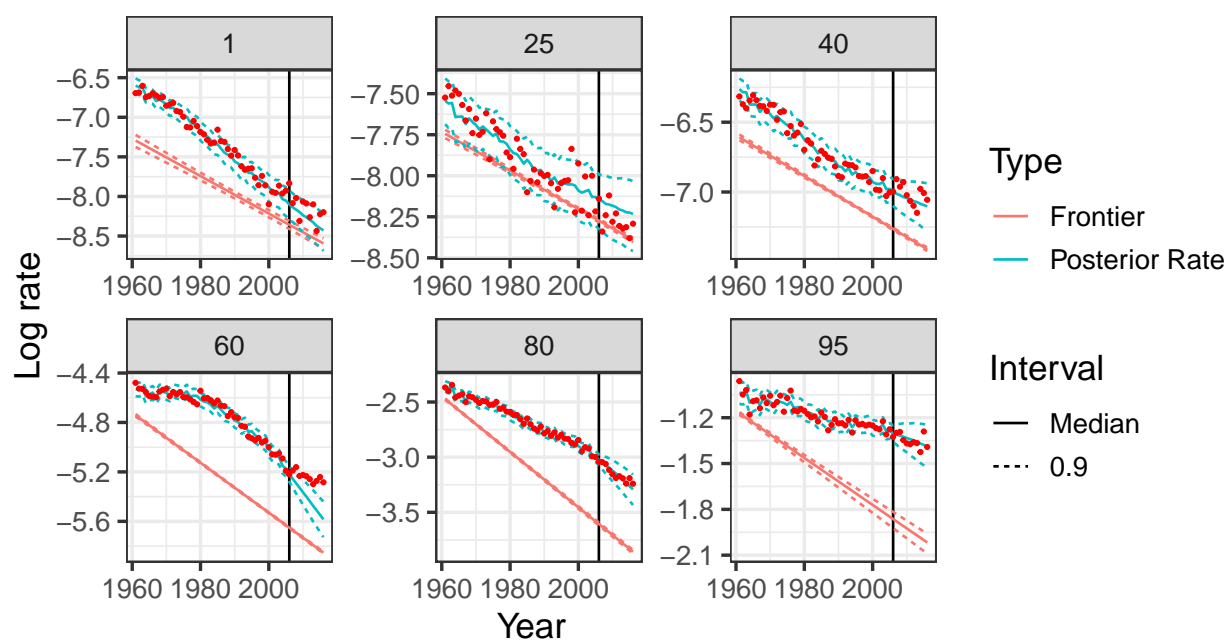
## Log Rate Posterior for selected ages vs Empirical : FIN



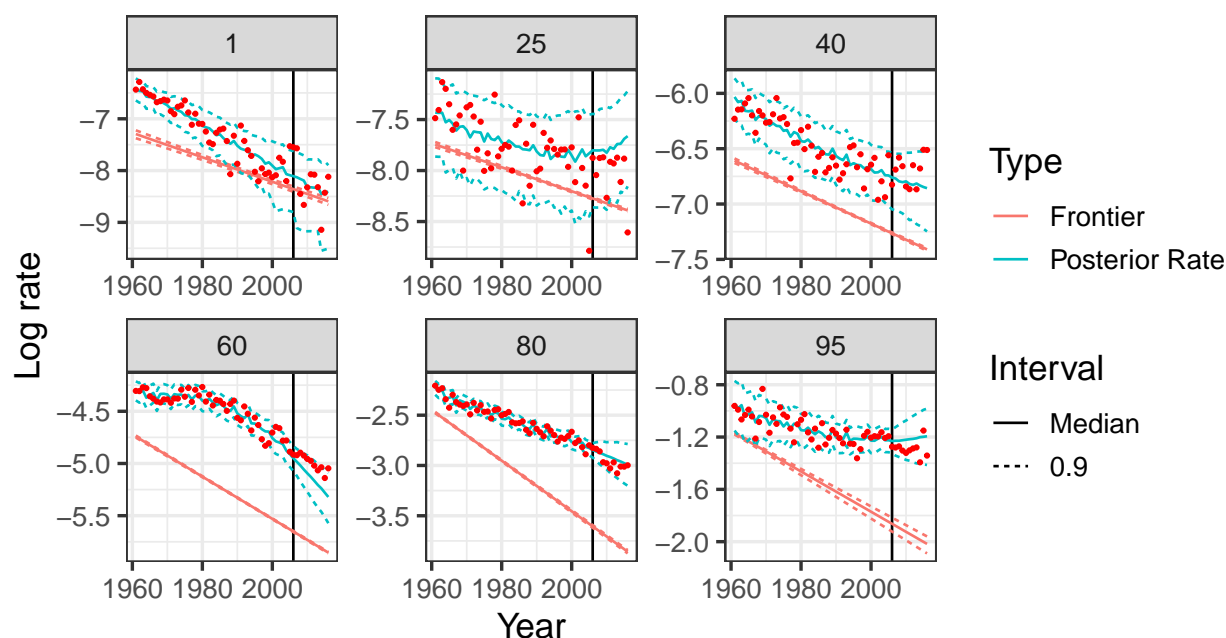
## Log Rate Posterior for selected ages vs Empirical : FRATNP



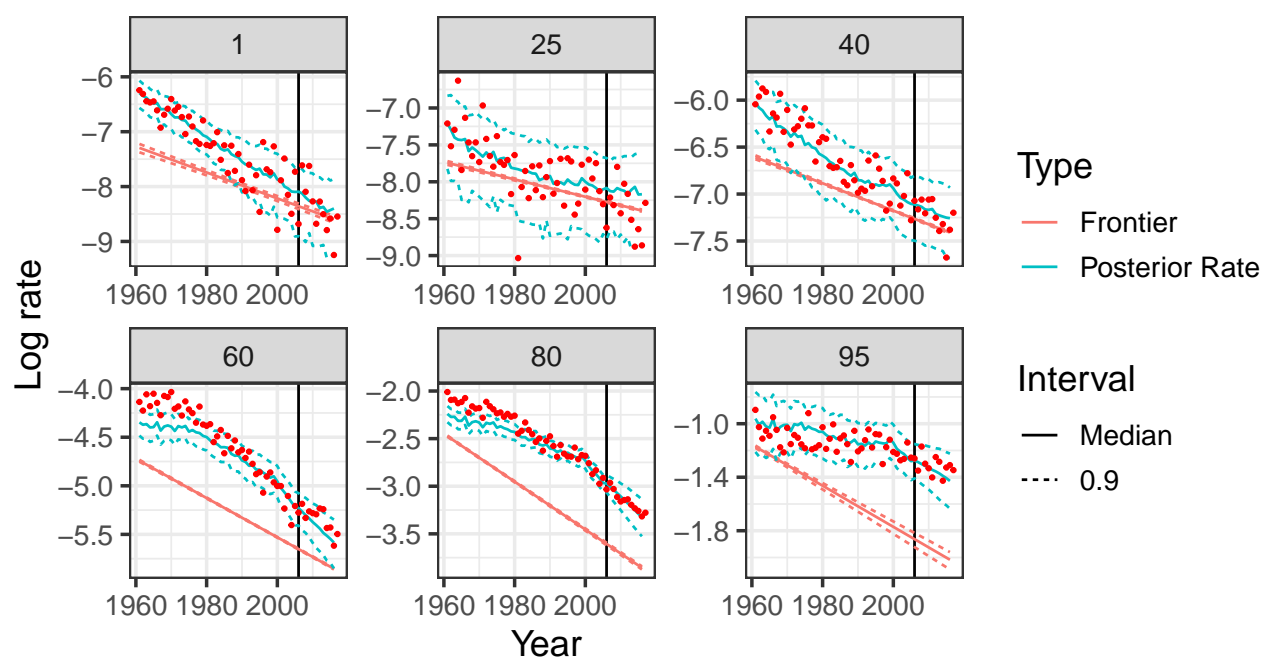
## Log Rate Posterior for selected ages vs Empirical : GBRTEN



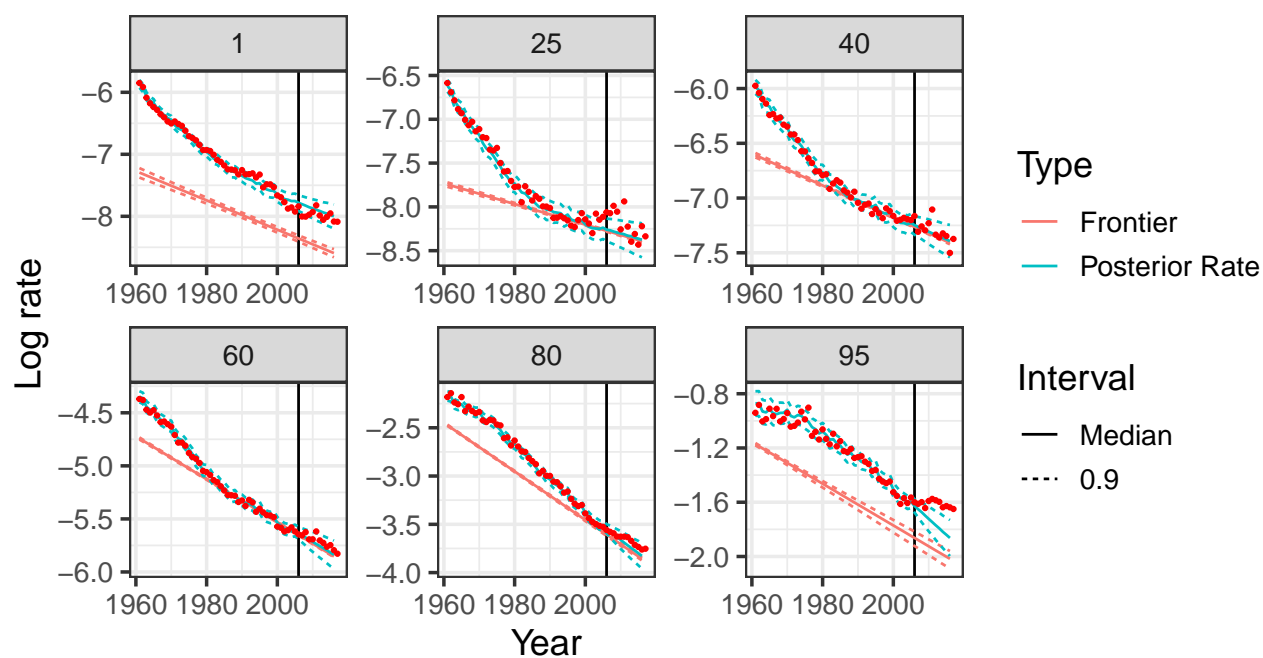
## Log Rate Posterior for selected ages vs Empirical : GBR\_SC



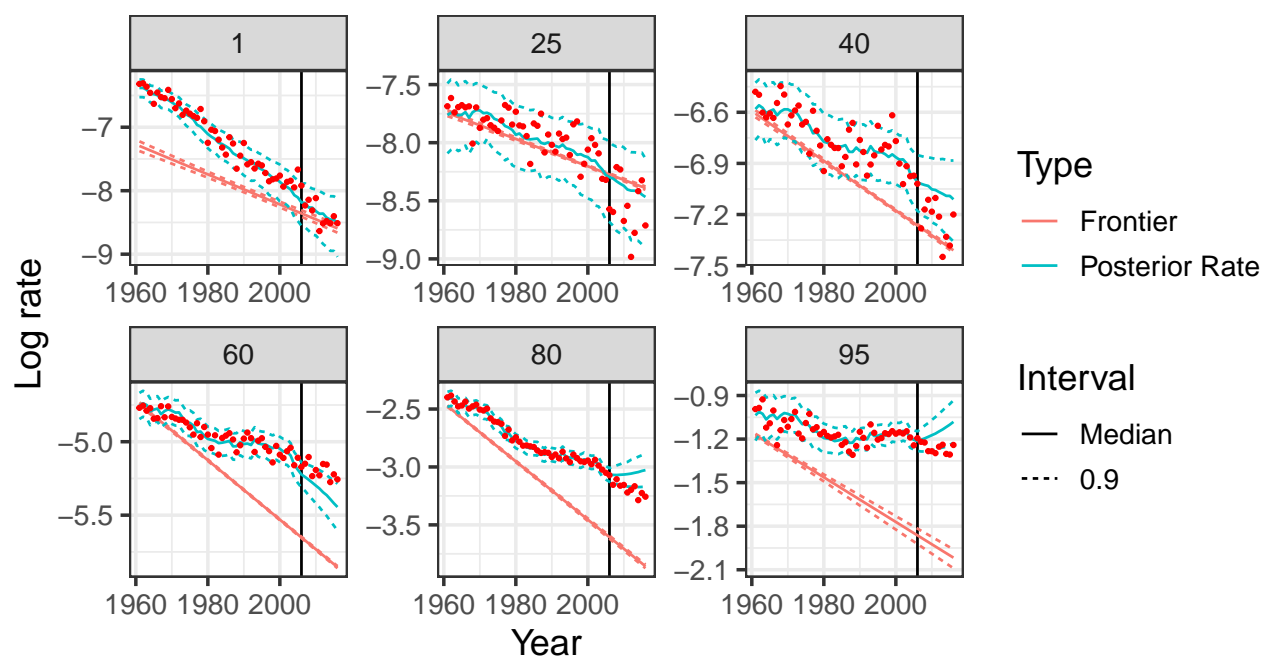
## Log Rate Posterior for selected ages vs Empirical : IRL



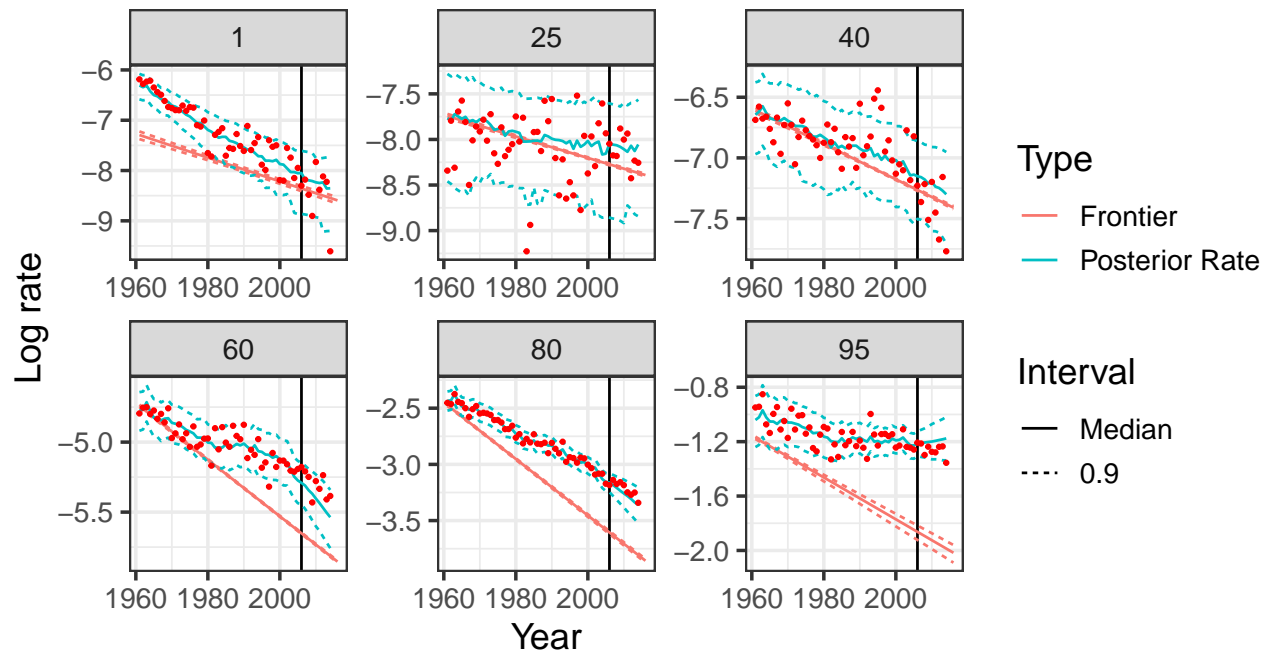
## Log Rate Posterior for selected ages vs Empirical : JPN



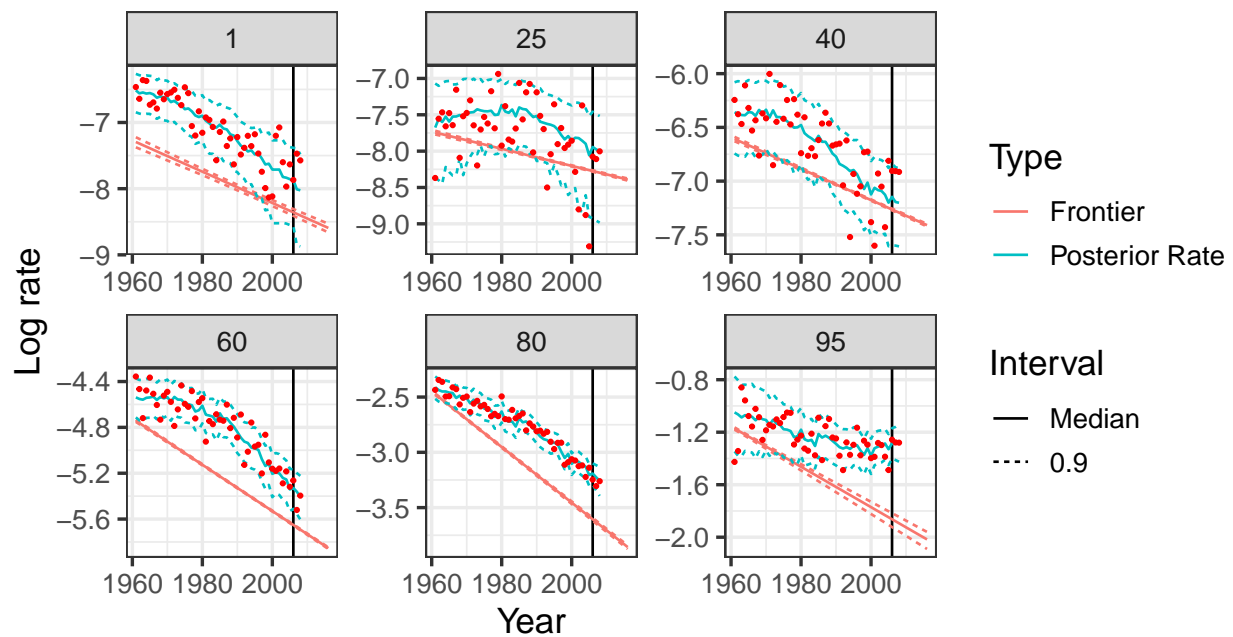
## Log Rate Posterior for selected ages vs Empirical : NLD



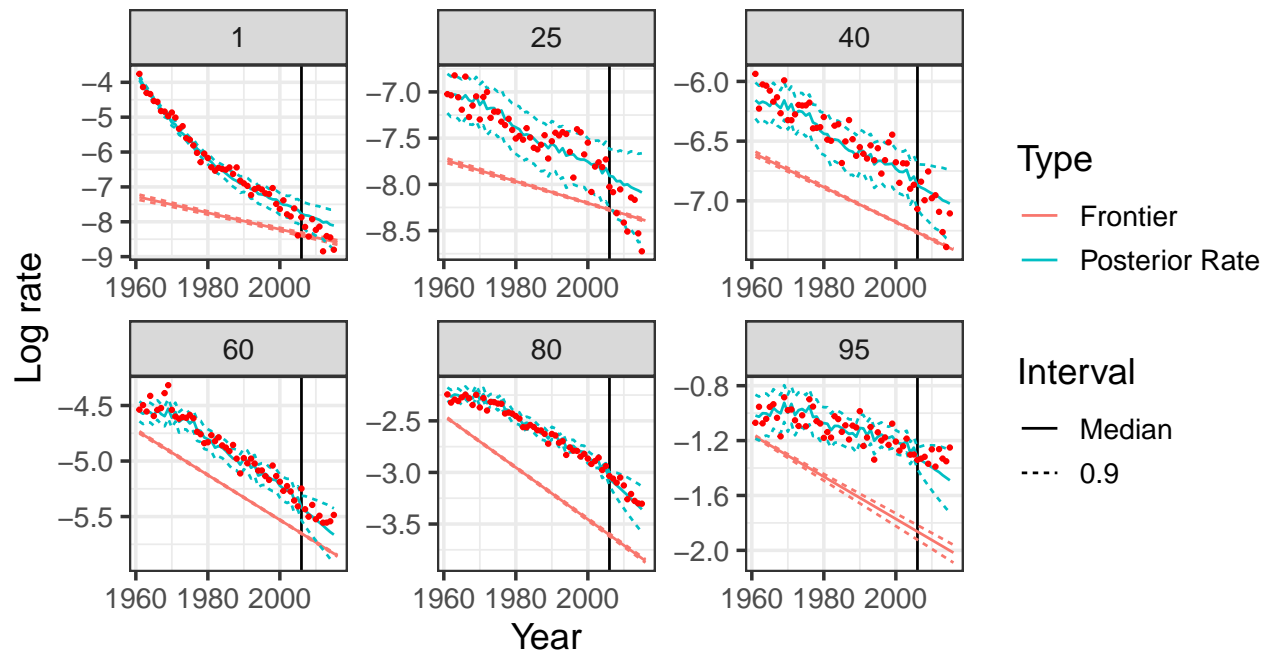
## Log Rate Posterior for selected ages vs Empirical : NOR



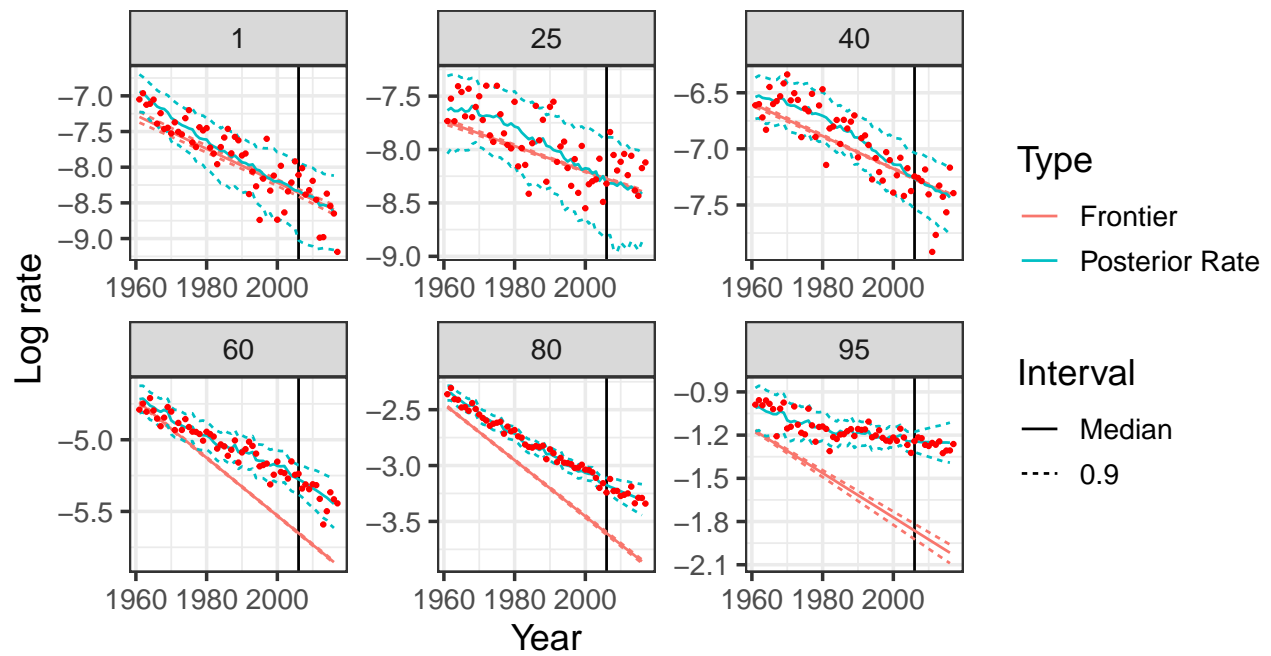
## Log Rate Posterior for selected ages vs Empirical : NZL\_NM



## Log Rate Posterior for selected ages vs Empirical : PRT



## Log Rate Posterior for selected ages vs Empirical : SWE



## Log Rate Posterior for selected ages vs Empirical : USA

