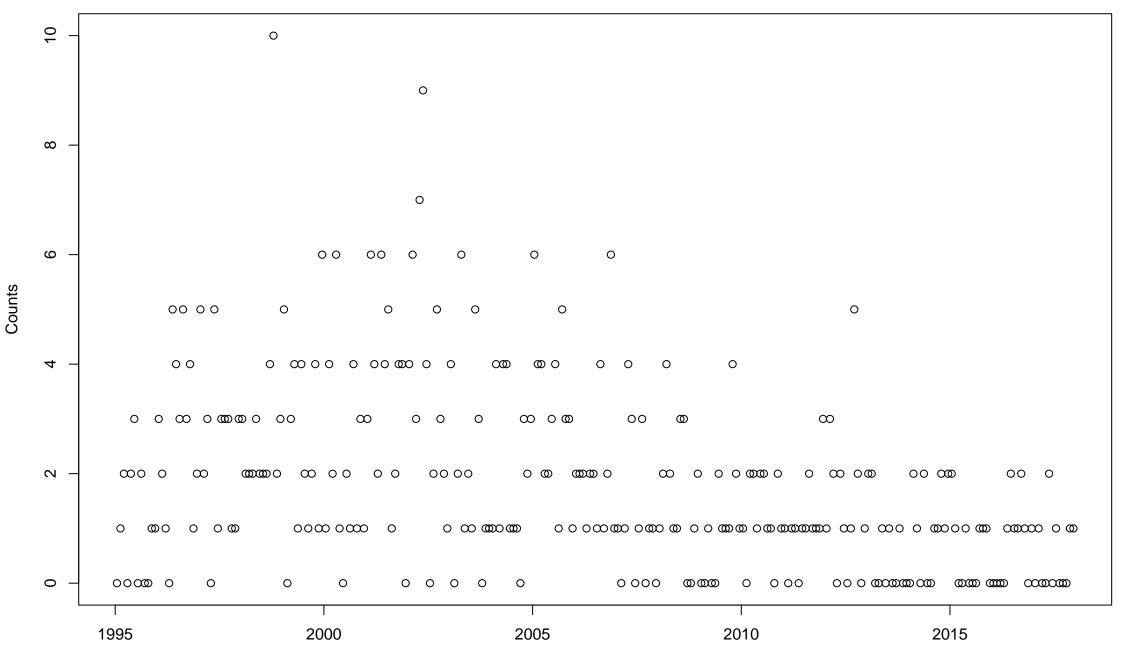
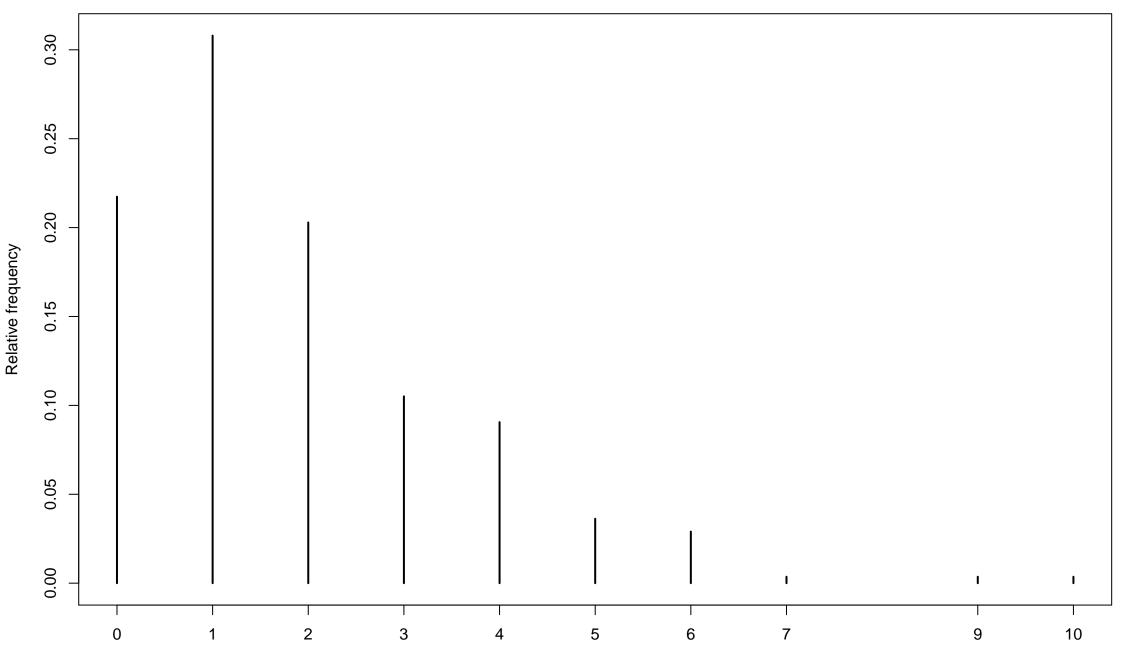
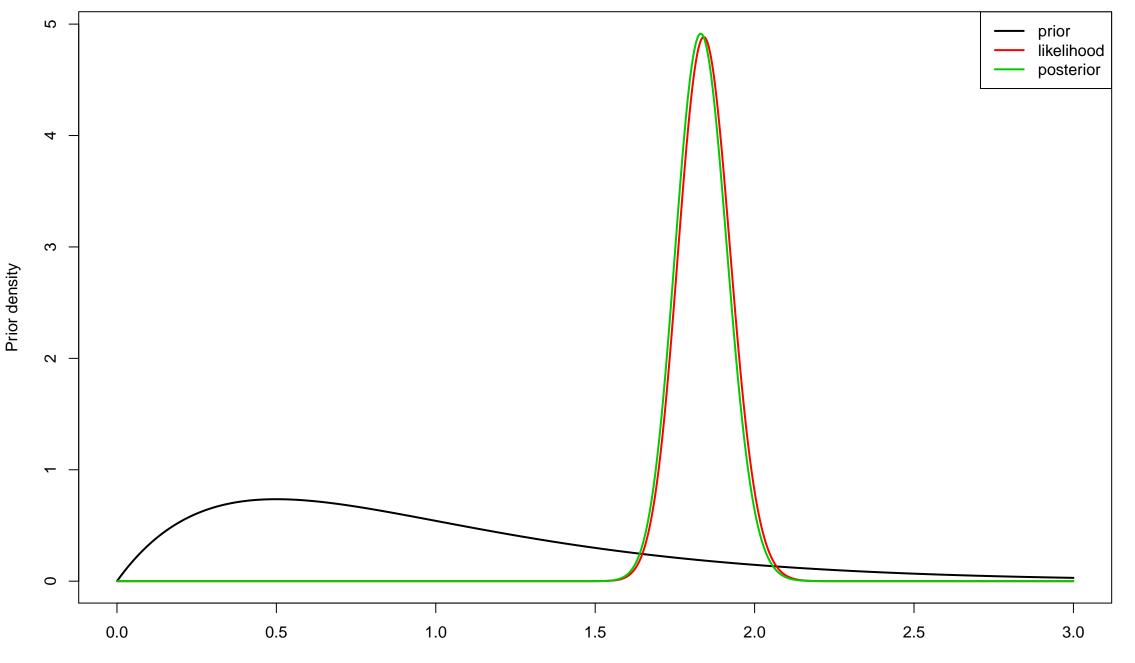
Sydney – Abduction and kidnapping

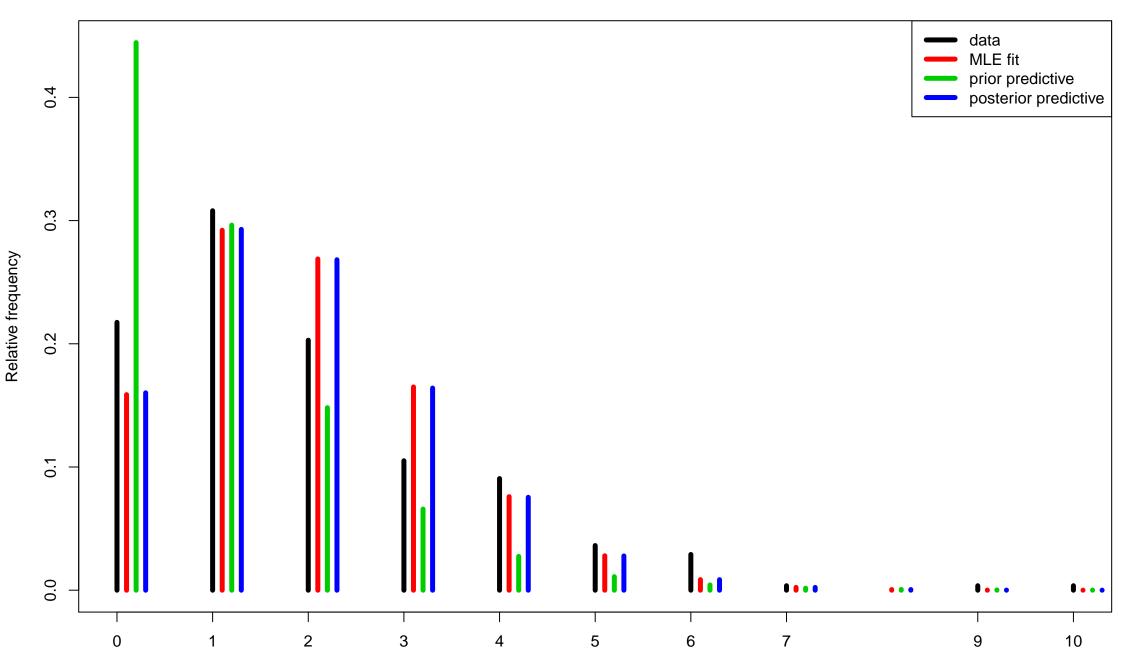


Sydney Abduction and kidnapping

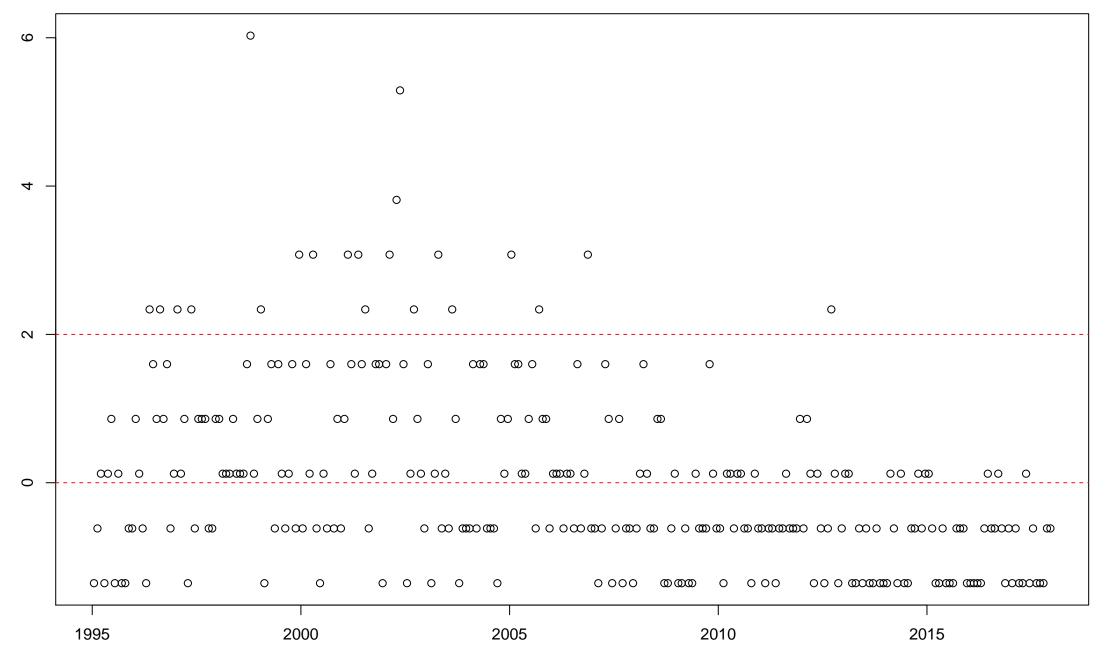


y1,...,yn iid Poisson(lambda) lambda ~ Gamma(alpha0,beta0)





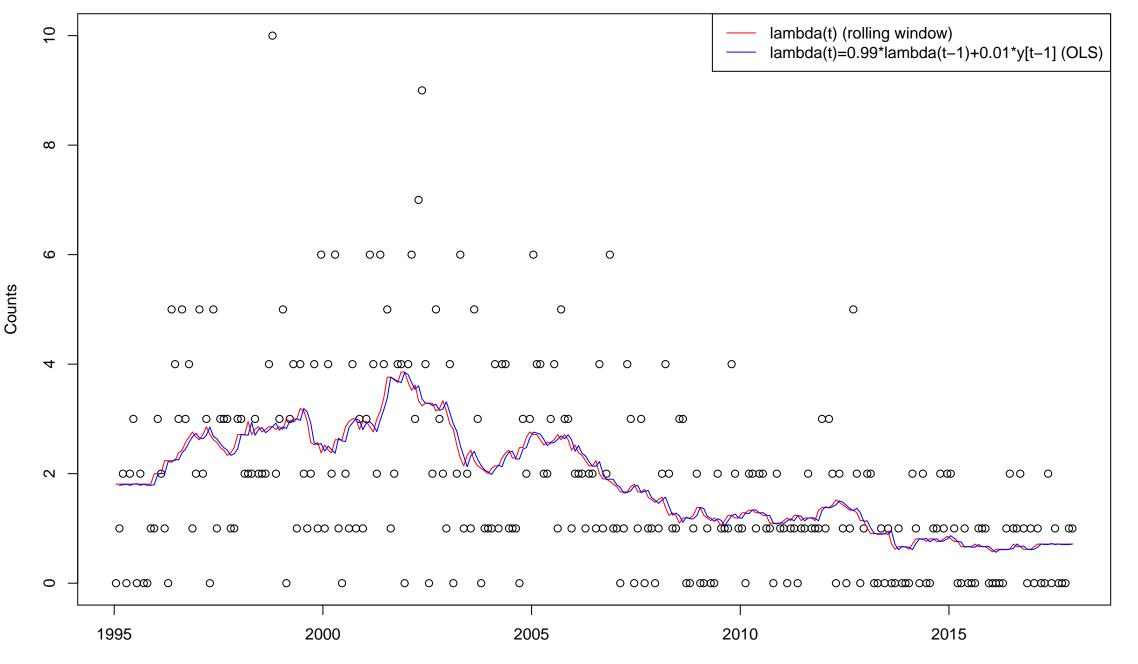
Counts



Months

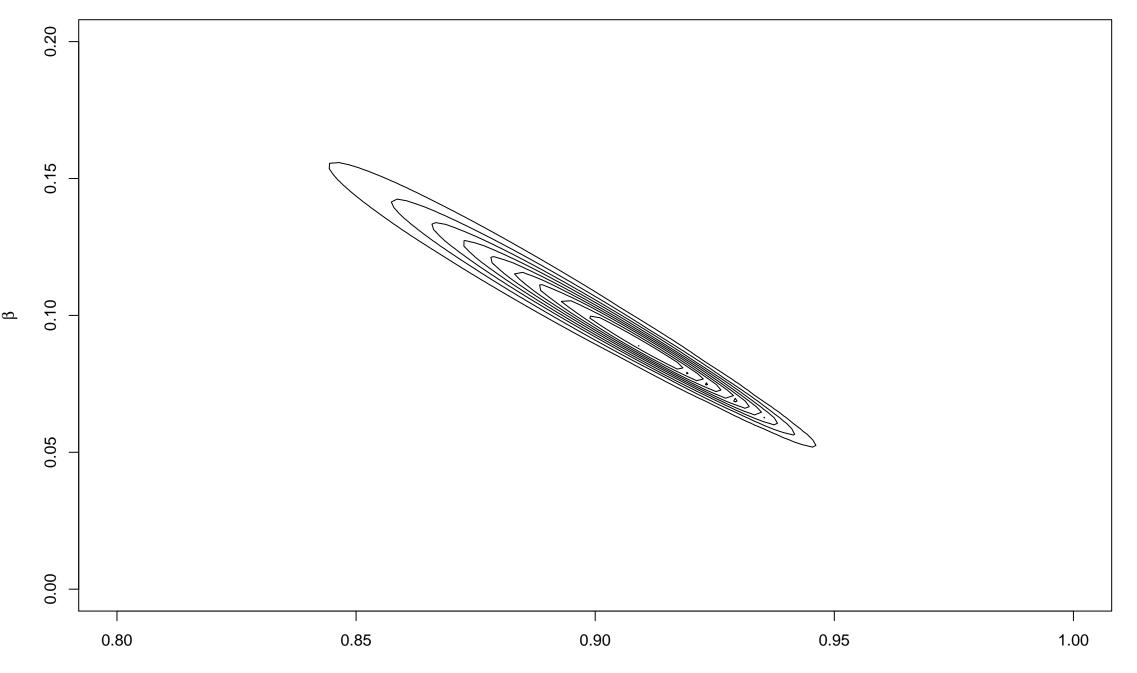
Pearson's residuals

y(t) ~ Poisson(lambda(t)) lambda(t)=alpha*lambda(t-1)+beta*y(t-1)

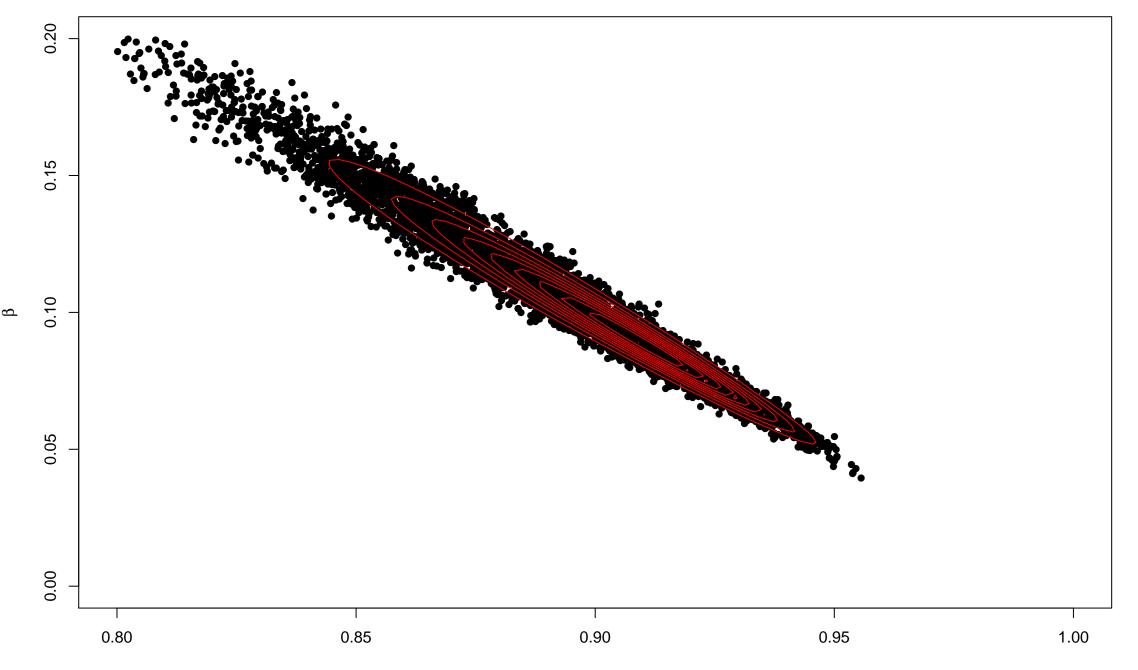


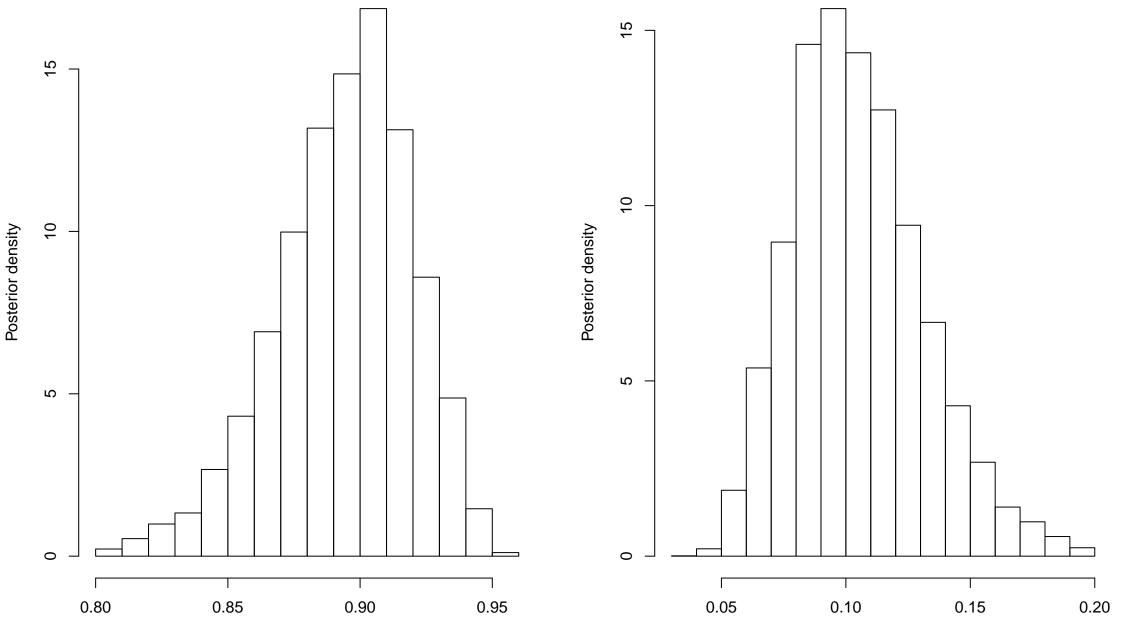
Months

Likelihood function



SIR based on 100,000 draws from U(0.8,1.0)xU()0,0.2) 10,000 resampled draws

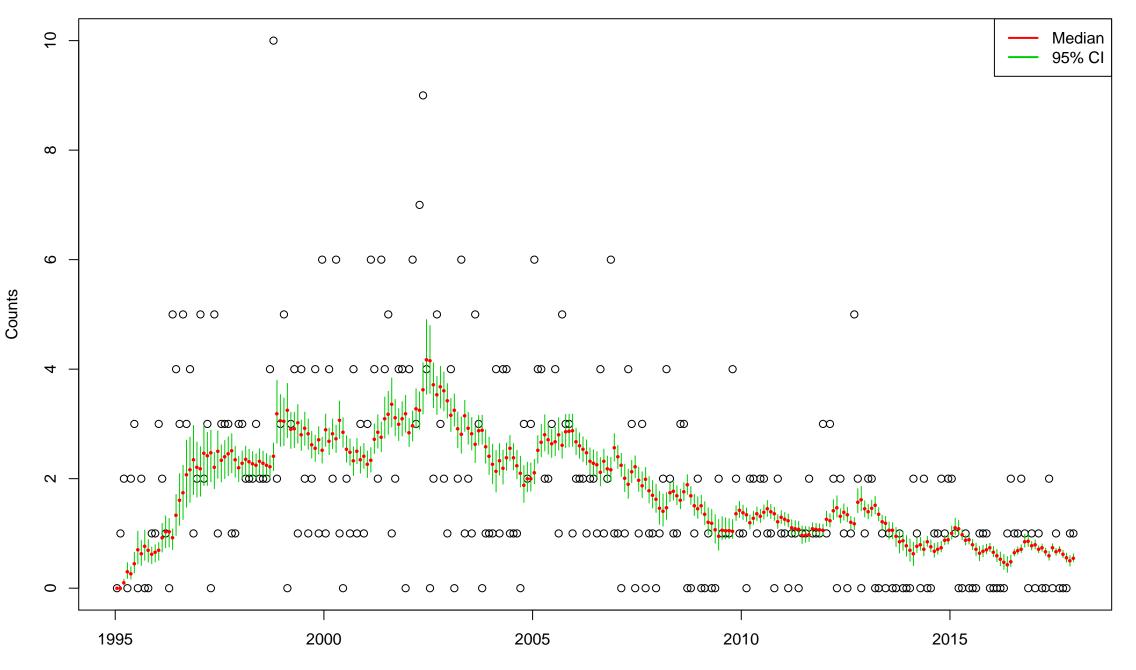




α

β

Posterior quantiles of lambda(t)



Posterior quantiles of y(t)

