Posterior incidence, posterior mean observed incidence, partial posterior predictive, and full posterior predictive distributions 4000 4000 4000 4000 3000 3000 3000 3000 Count 2000 onut 2000 2000 2000 1000 1000 1000 1000 Time Time Time Time

Posterior mean observed incidence

Posterior incidence

• Data — True mean observed incidence

Partial posterior predictive Full posterior predictive