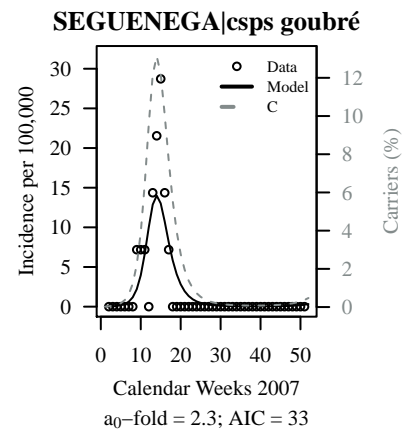
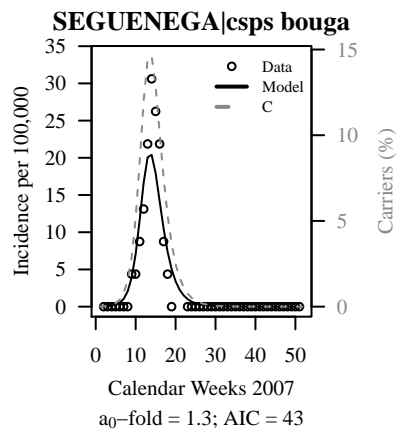
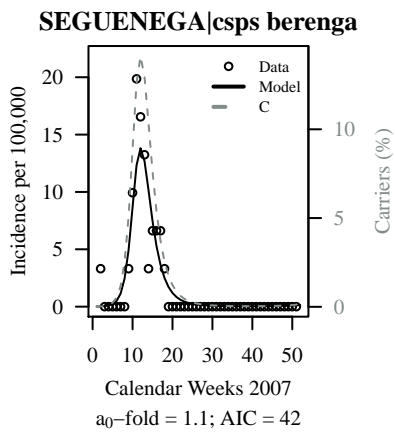
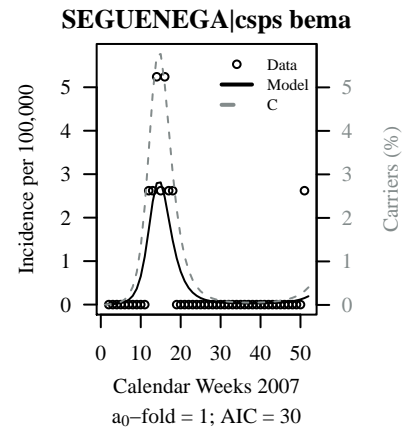
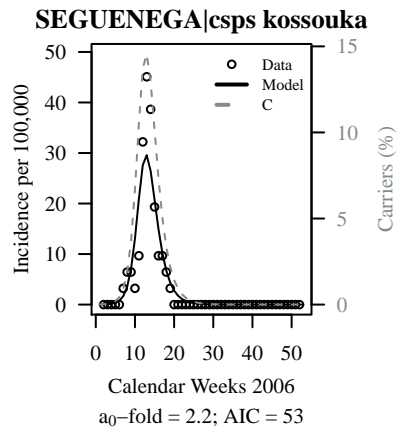
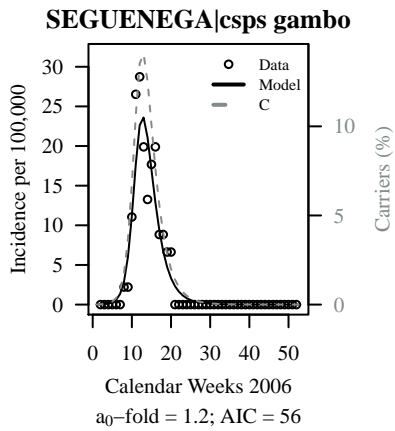
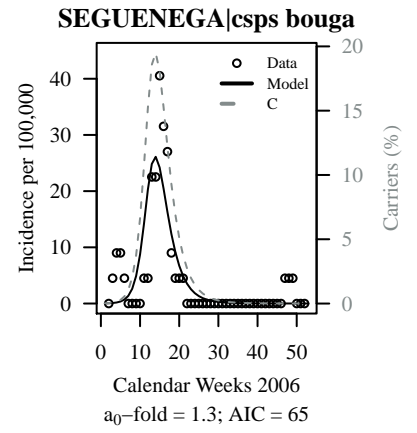
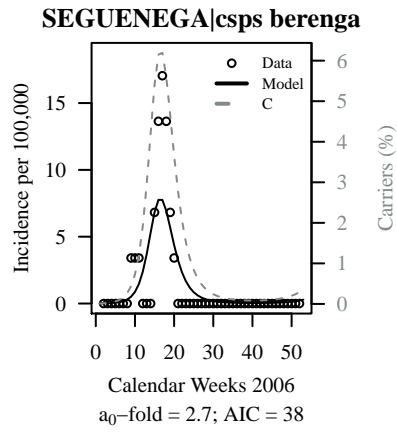
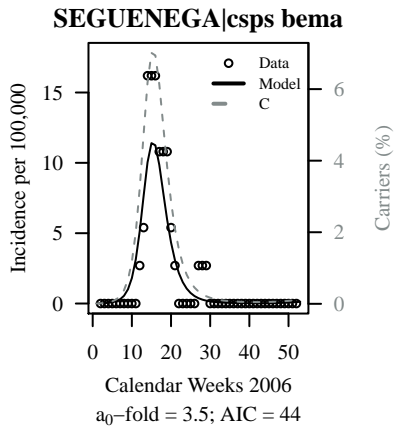
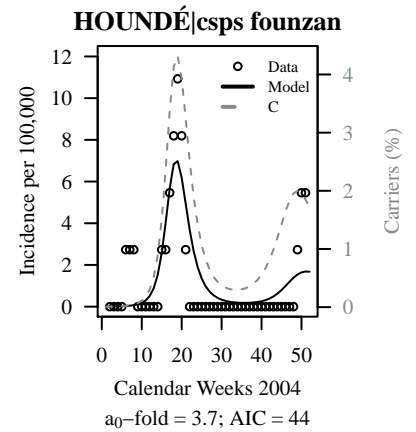
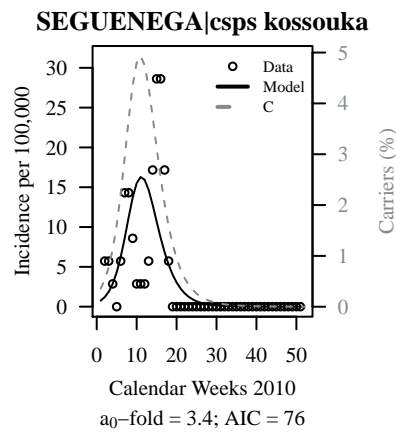
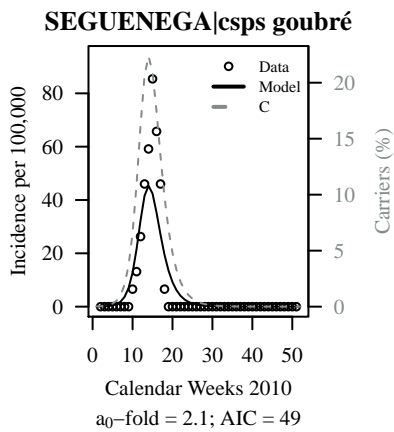
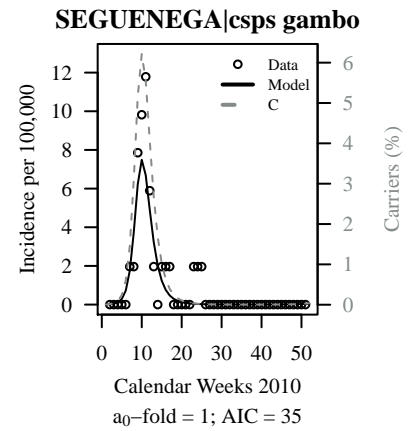
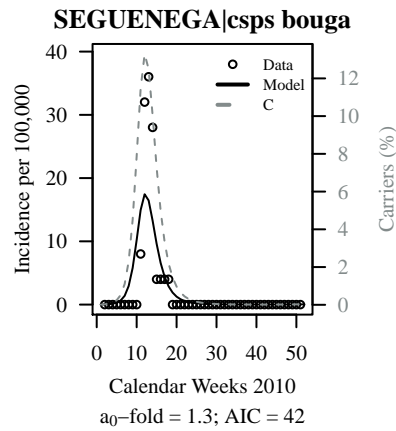
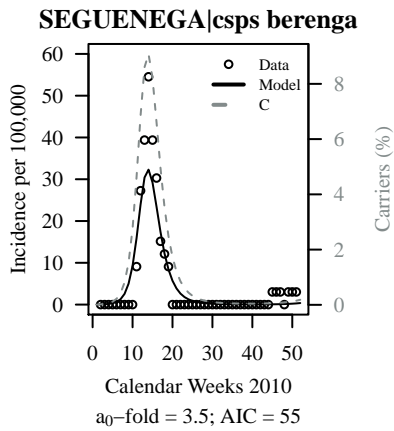
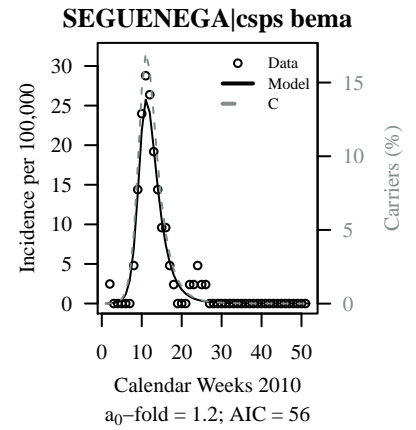
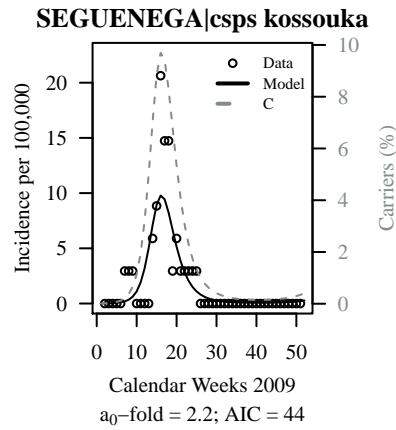
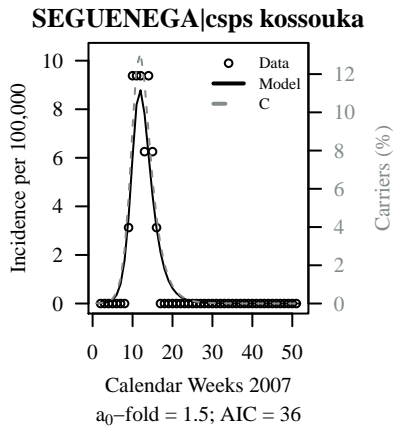
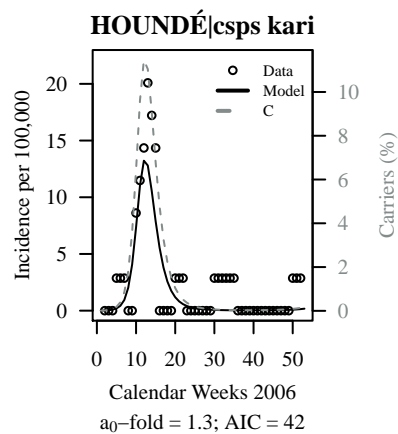
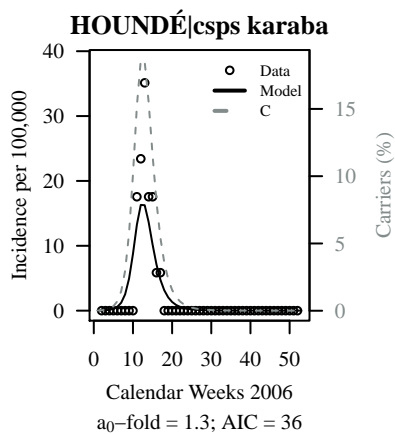
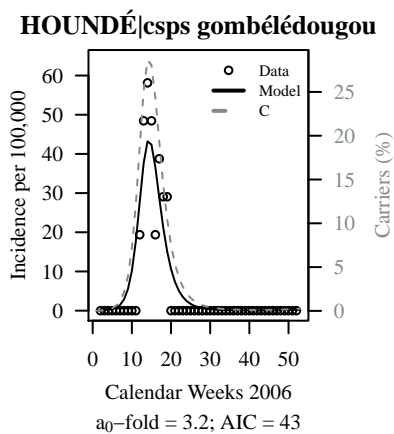
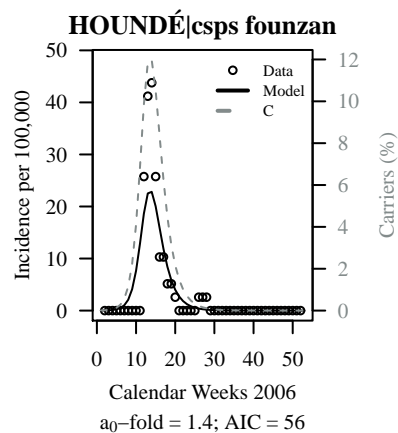
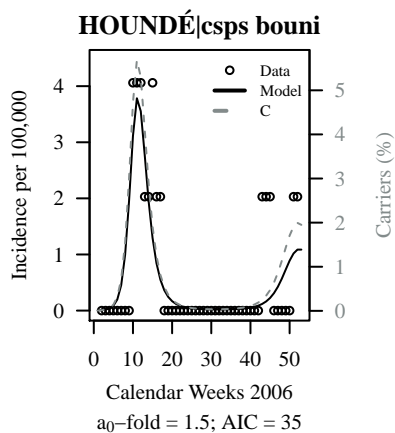
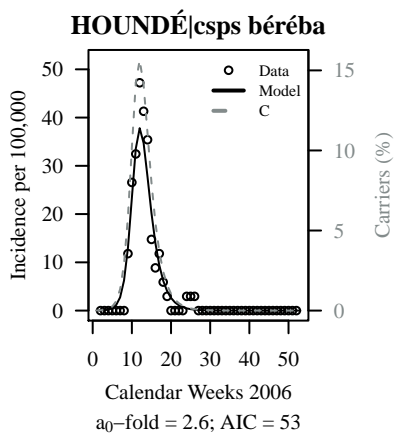
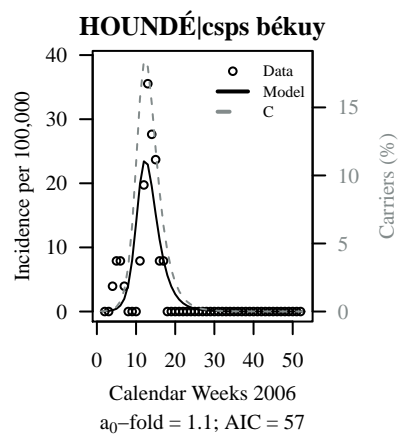
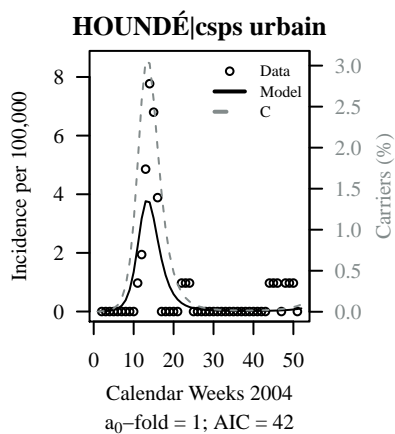
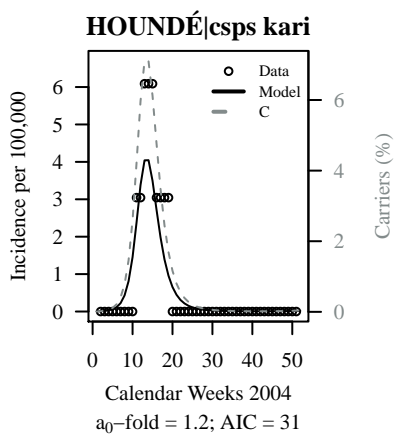


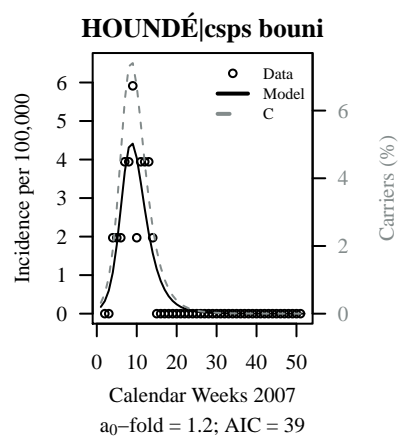
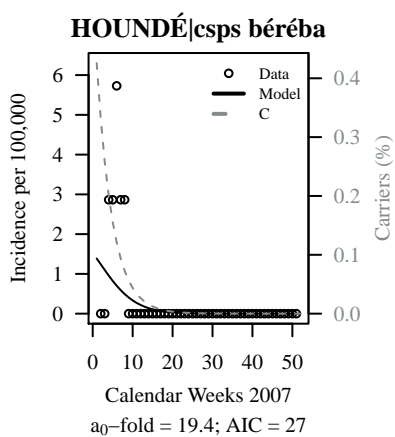
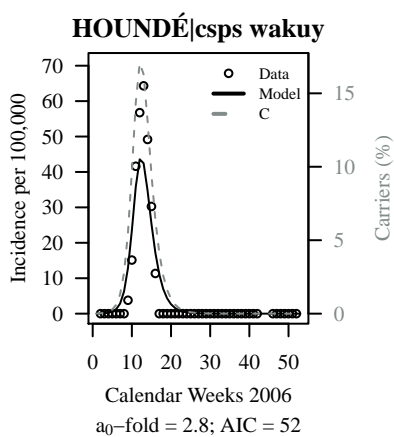
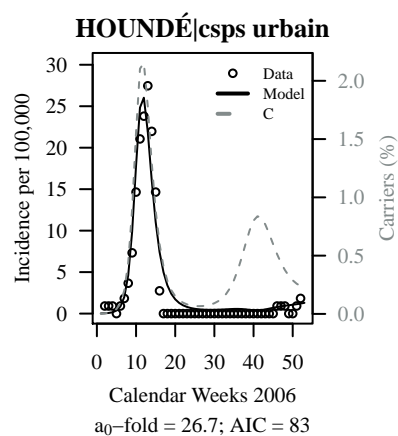
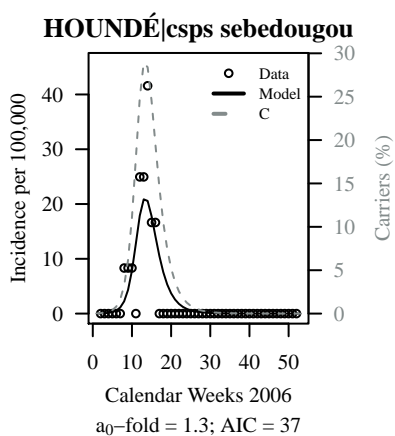
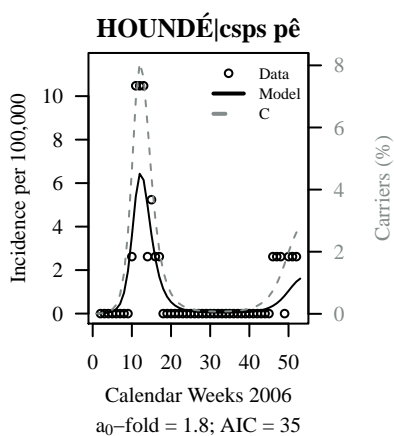
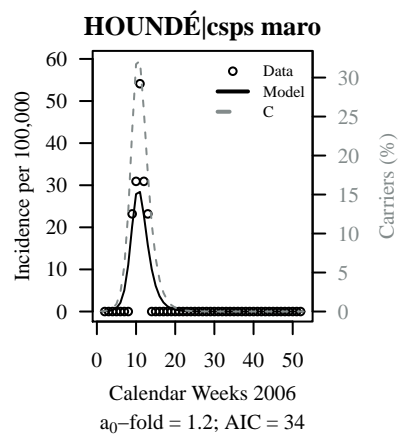
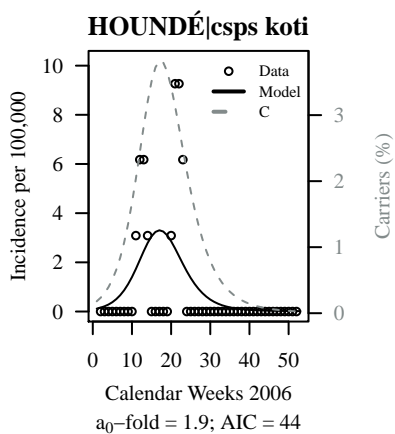
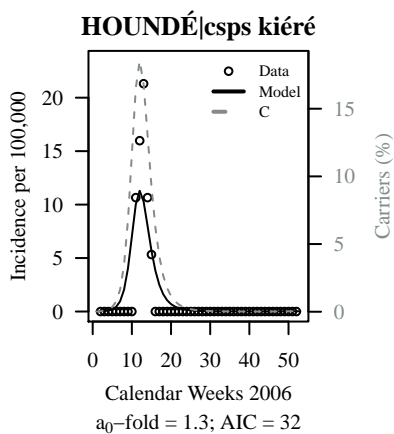
Results of model estimations using a poisson maximum likelihood approach.

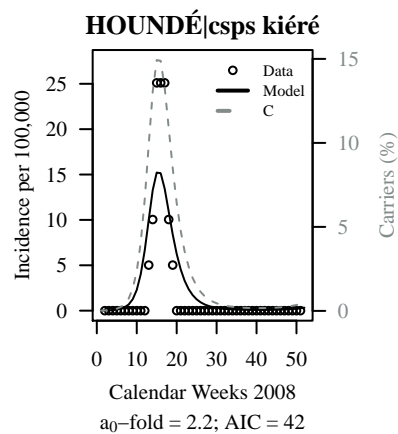
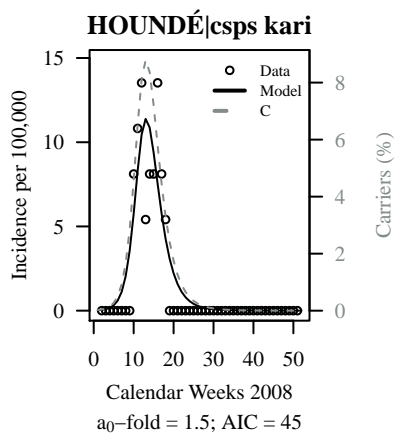
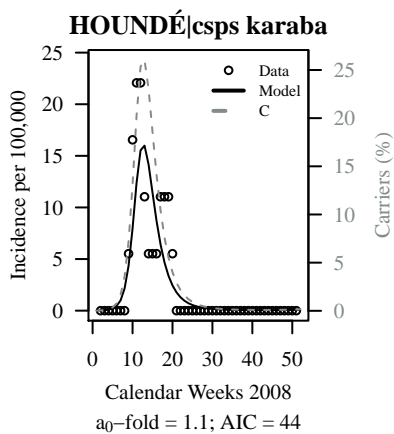
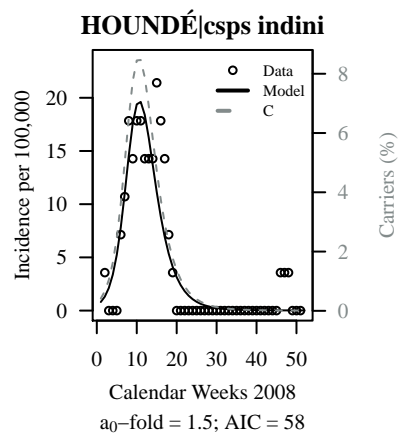
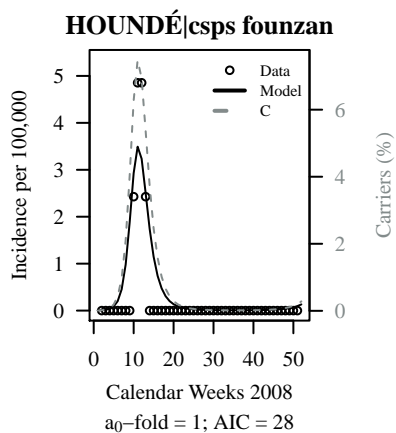
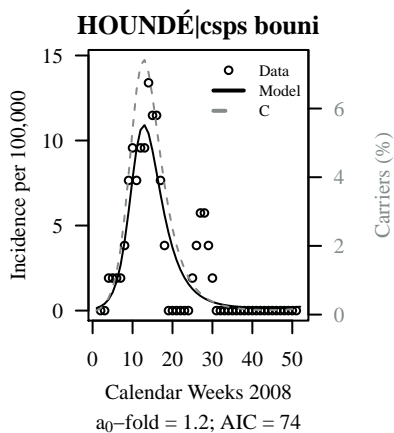
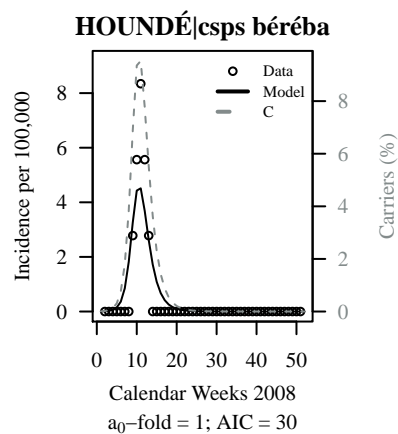
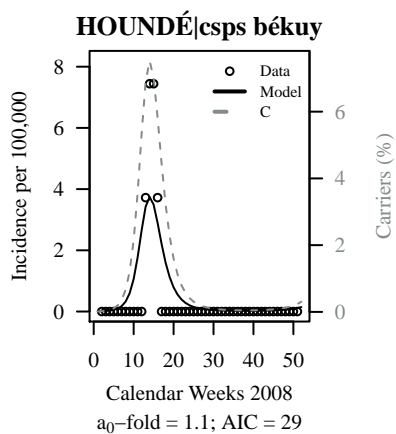
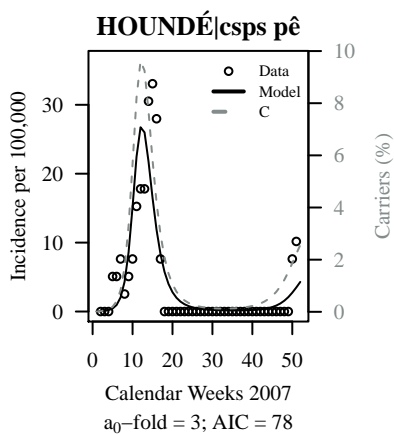
Figure 1. Model1-"inv" trajectories matching plots of simulated and observed (weekly) data, for 64 health center-years with complete data, across four health districts of Burkina faso (2004–2010).

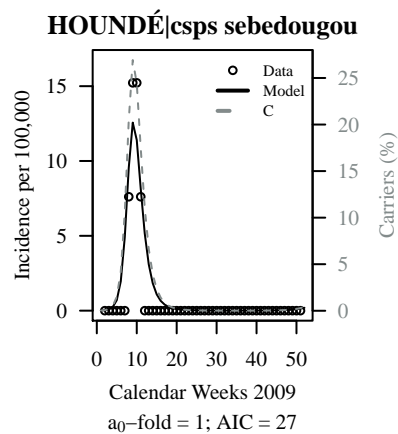
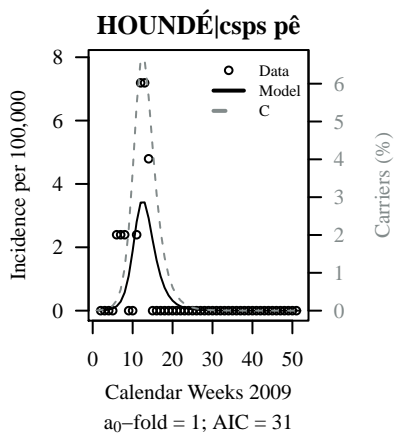
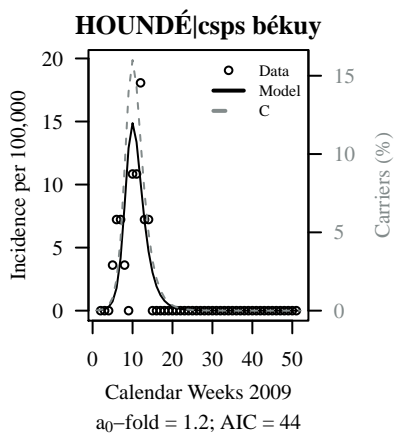
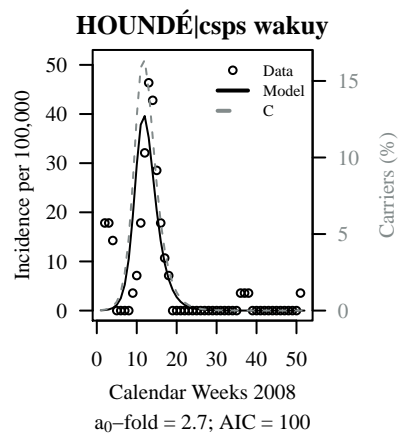
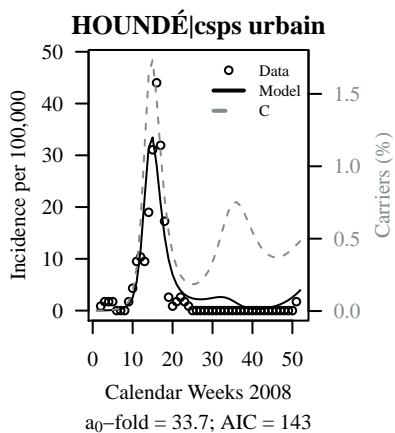
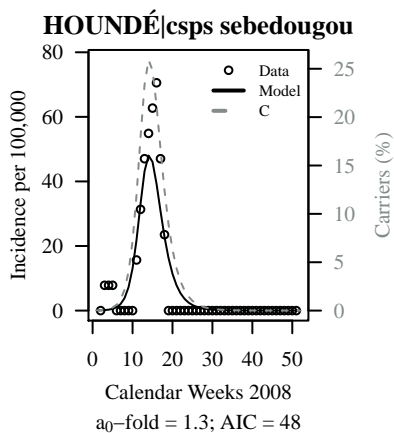
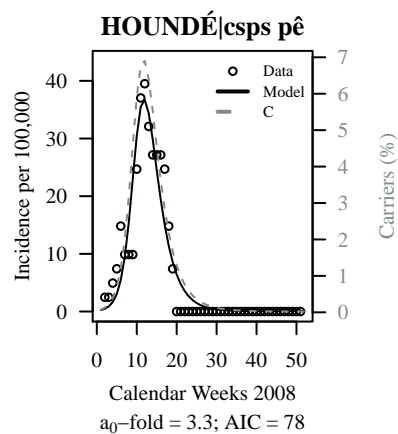
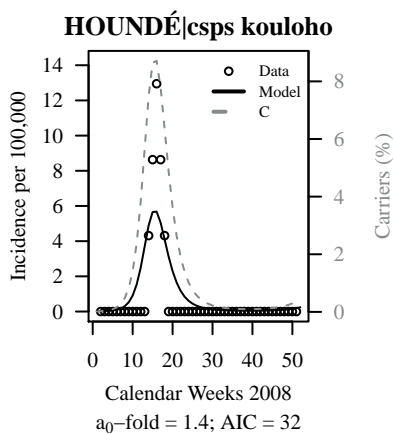
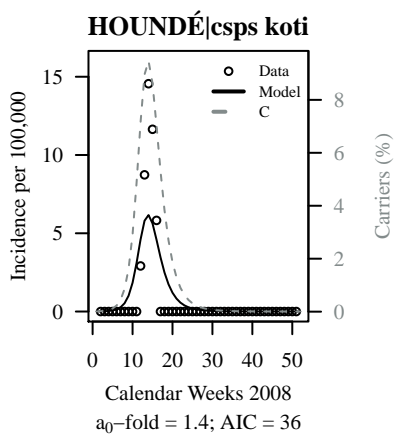




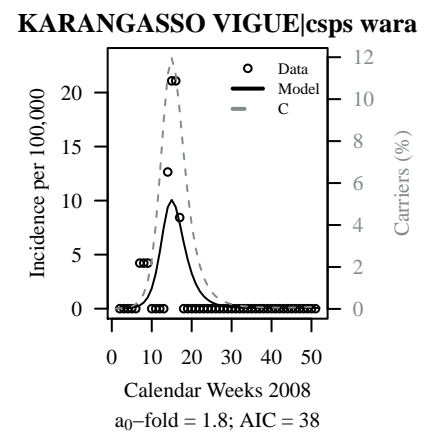
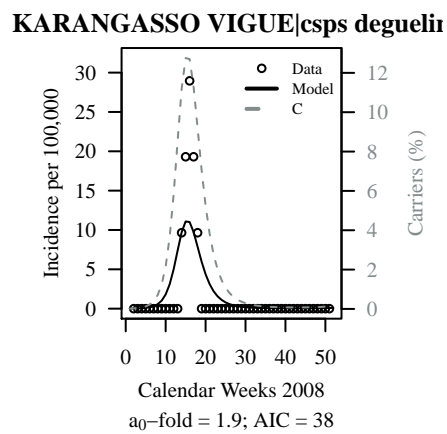
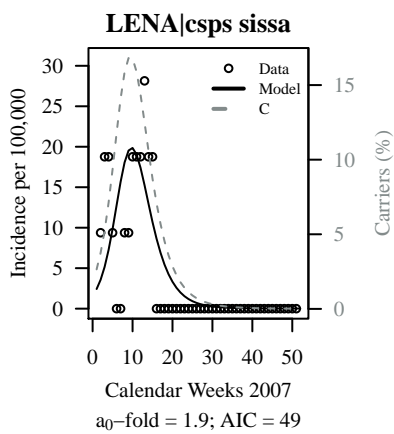
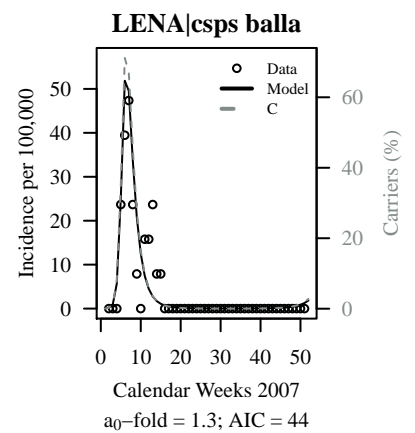
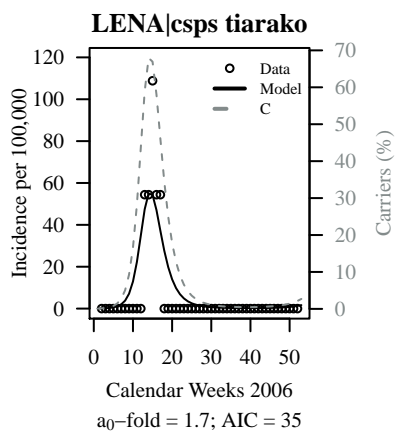
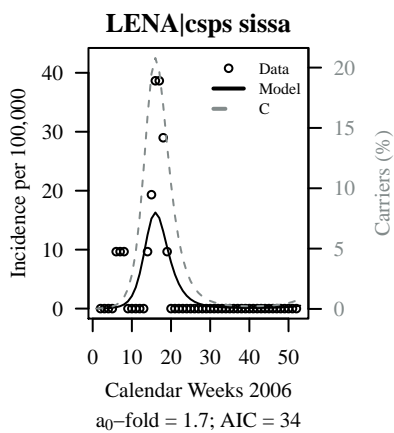
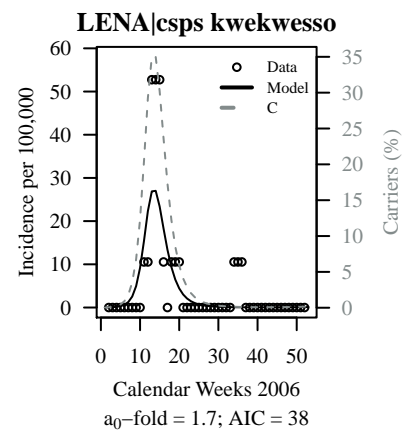
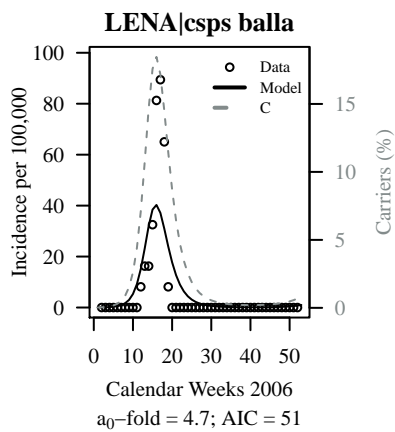
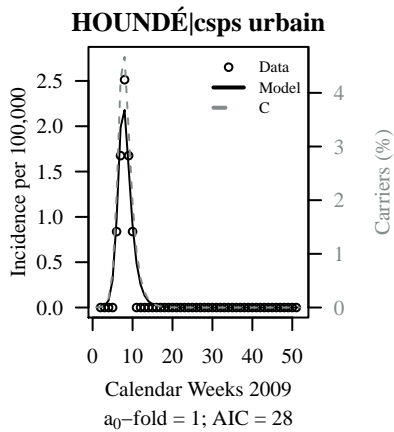




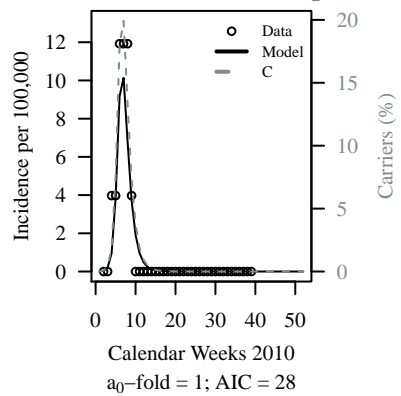








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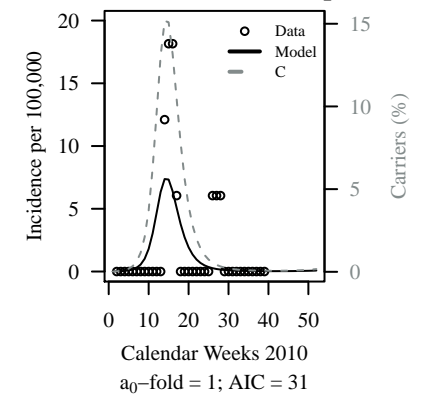
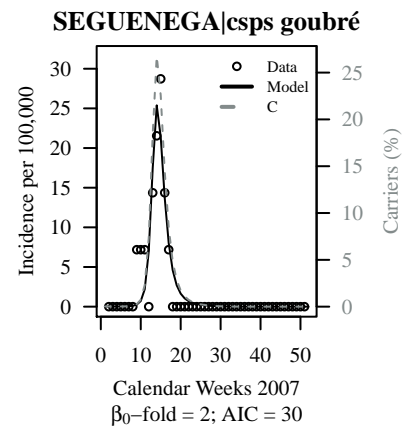
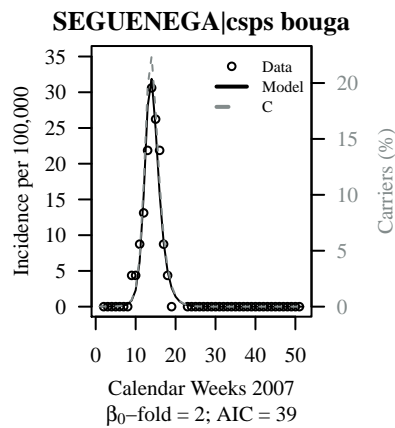
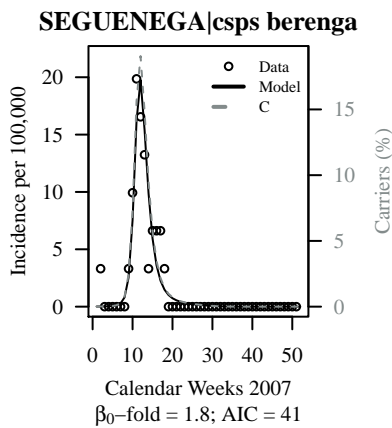
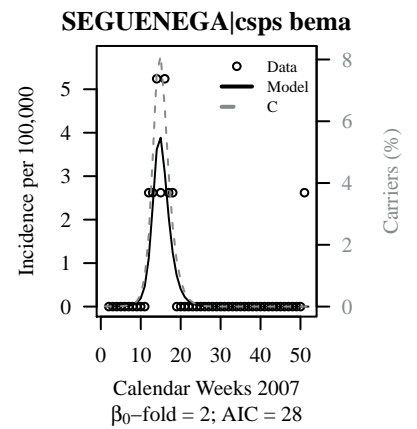
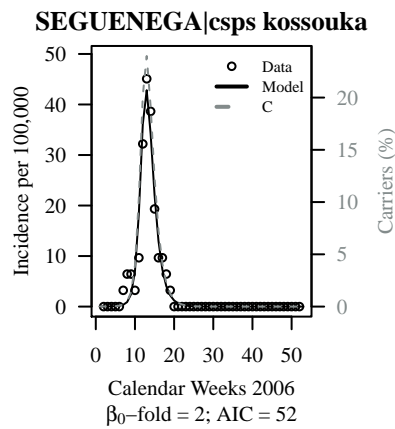
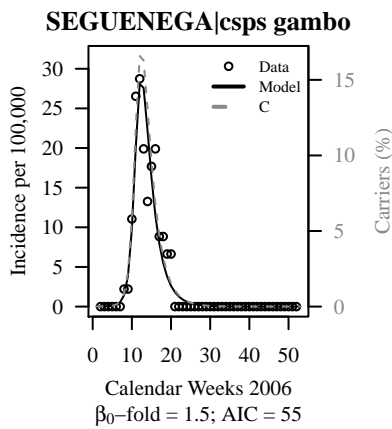
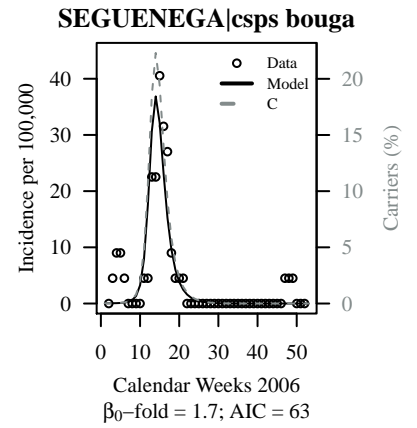
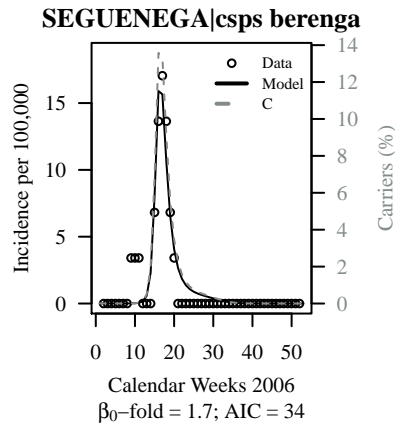
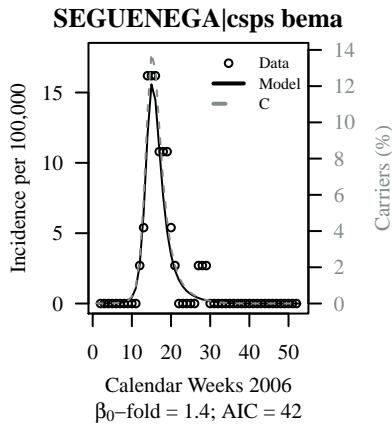
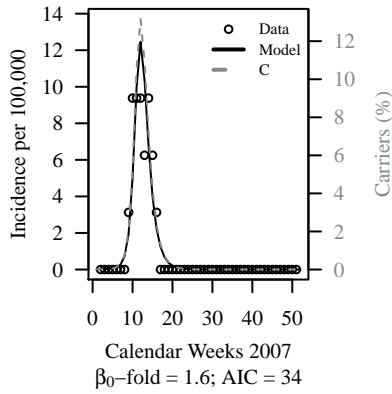


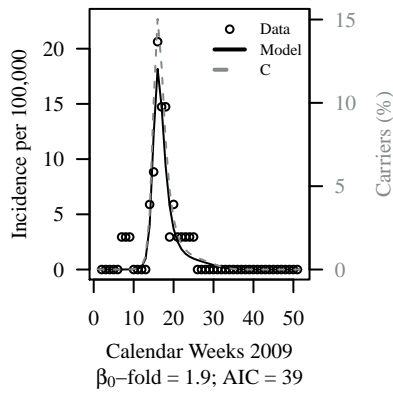
Figure 2. Model2-"transm" trajectories matching plots of simulated and observed (weekly) data, for 64 health center-years with complete data, across four health districts of Burkina faso (2004–2010).



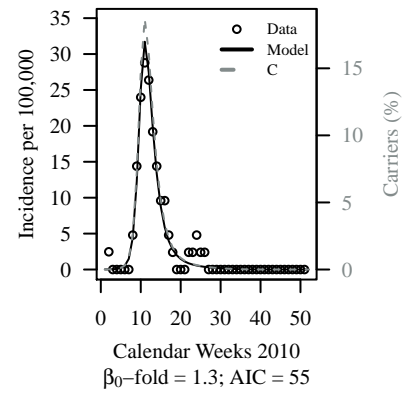
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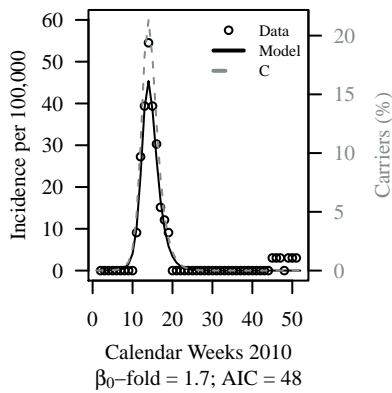
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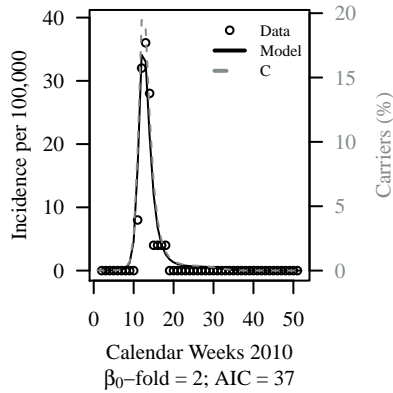
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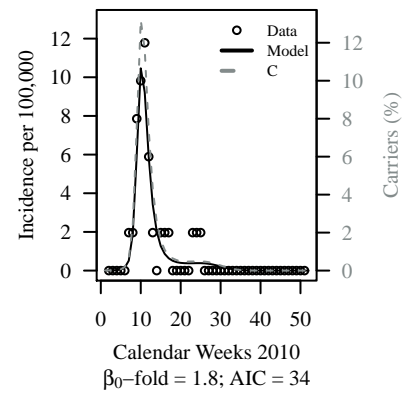
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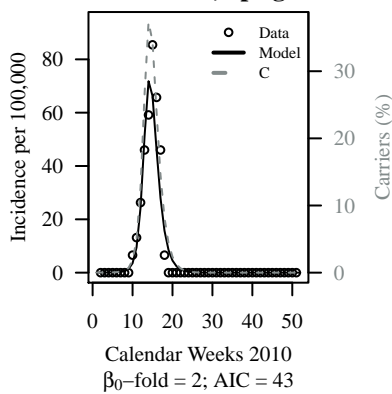
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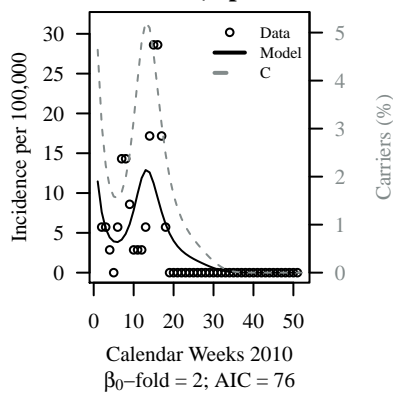
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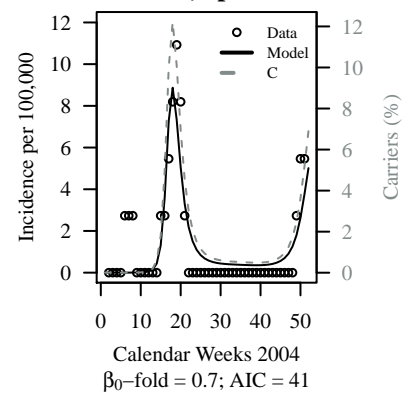
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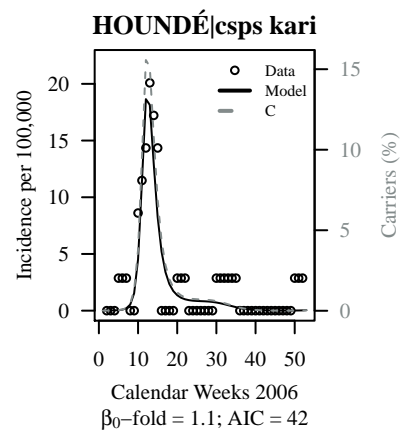
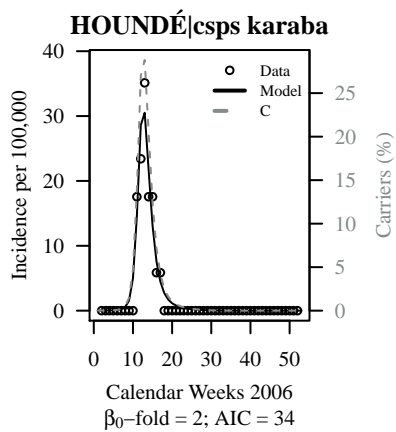
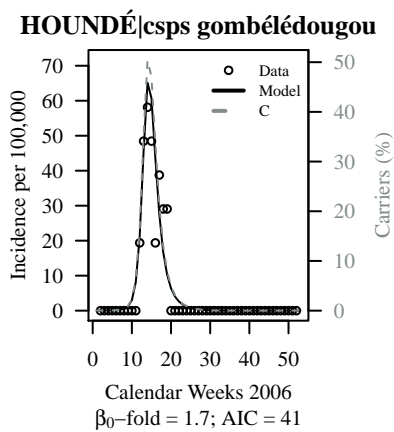
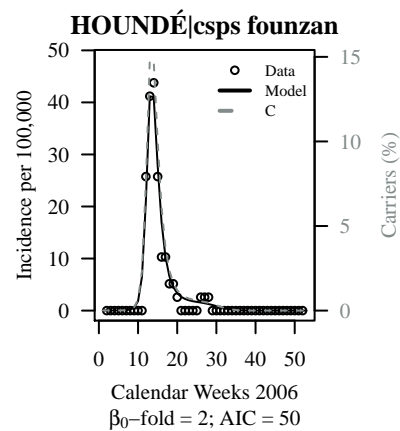
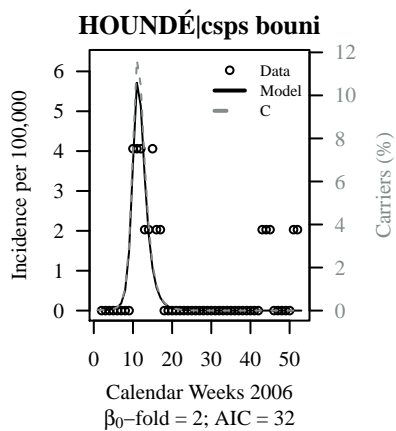
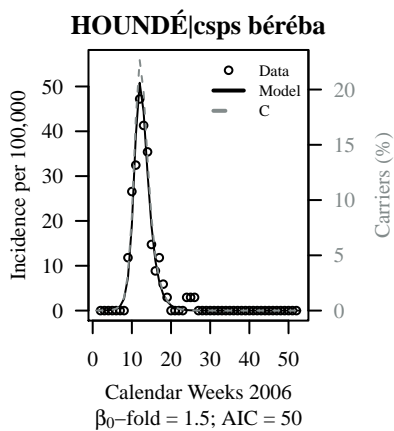
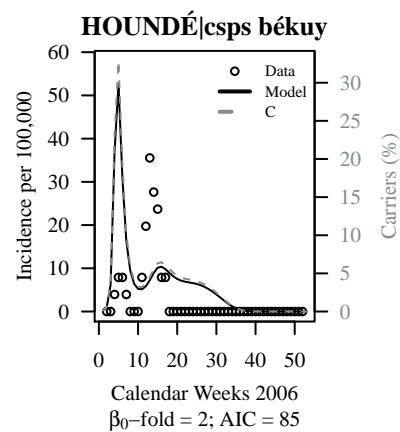
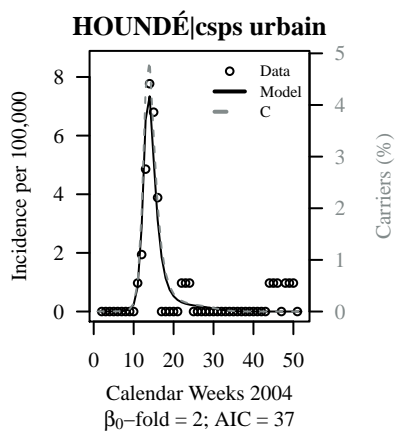
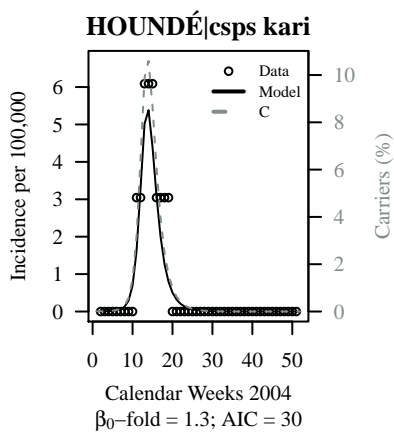


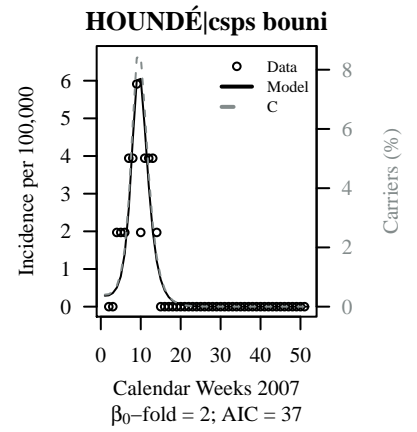
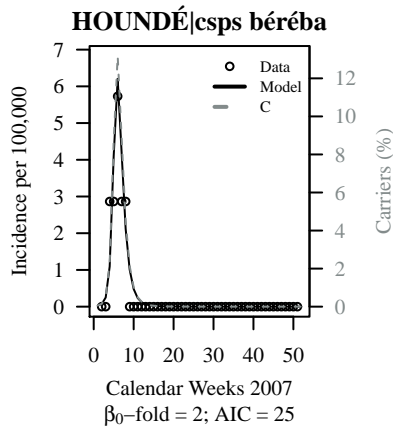
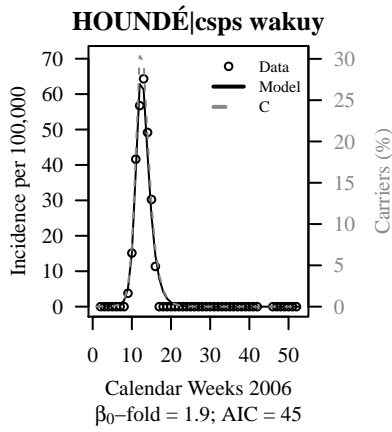
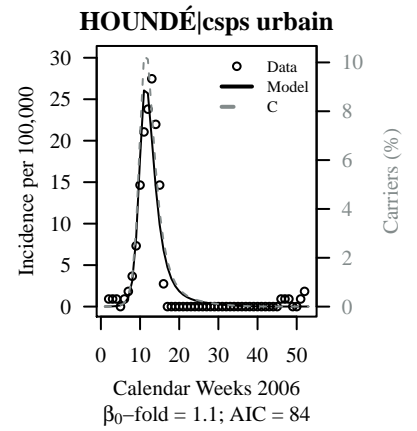
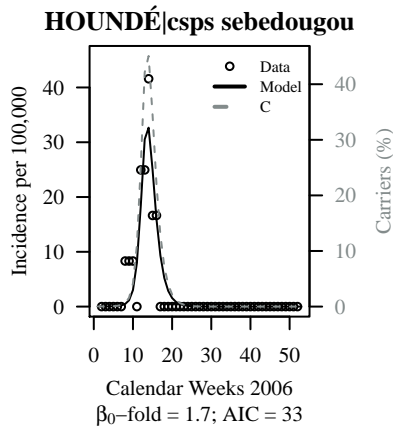
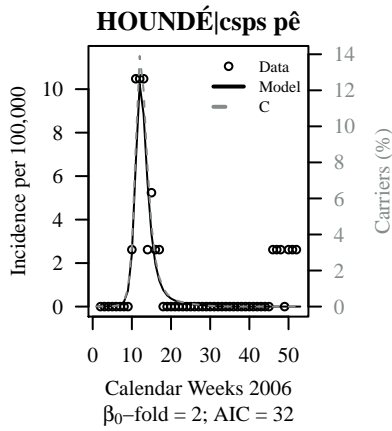
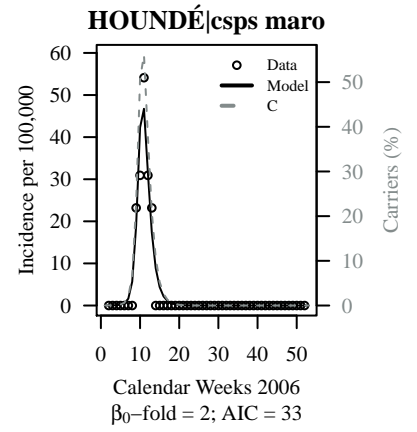
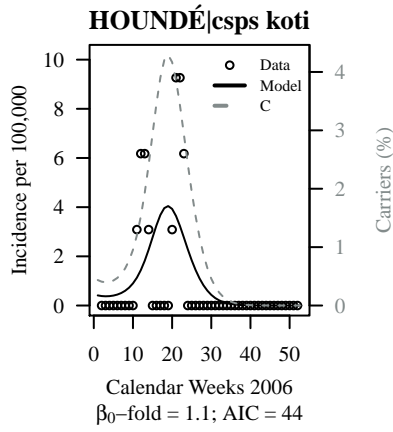
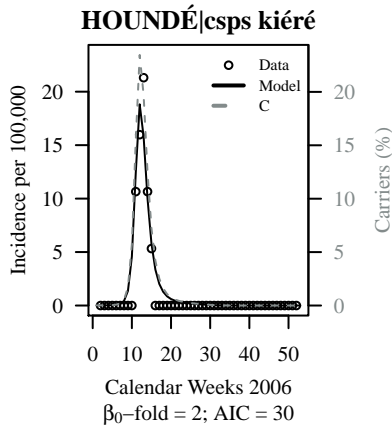
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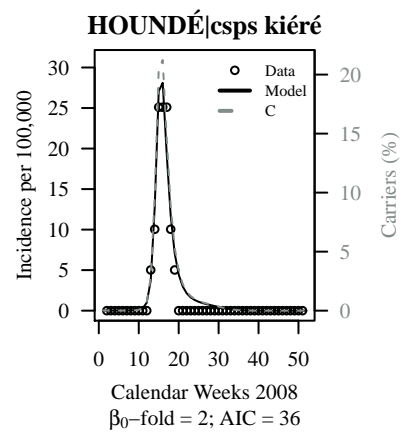
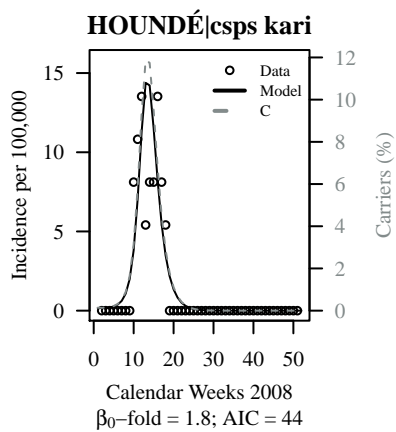
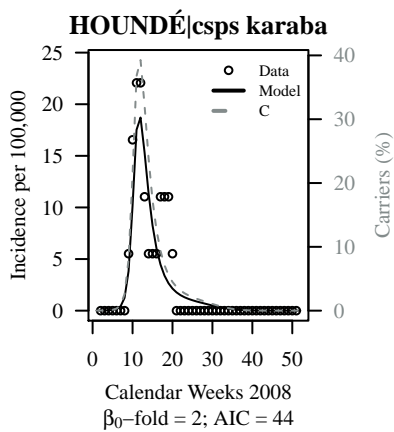
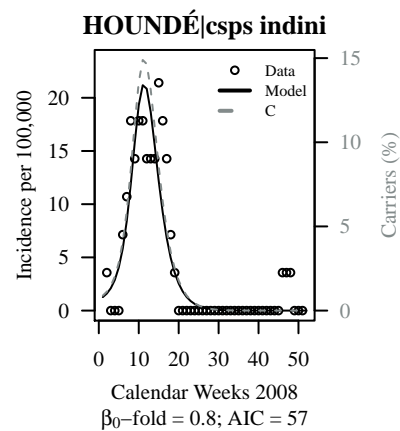
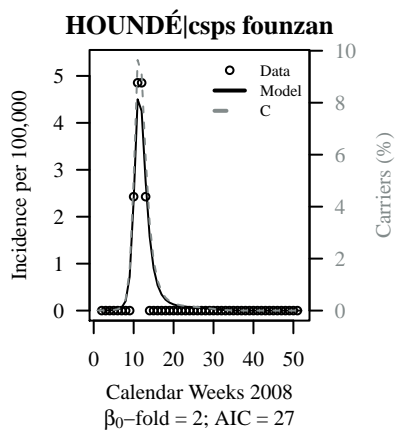
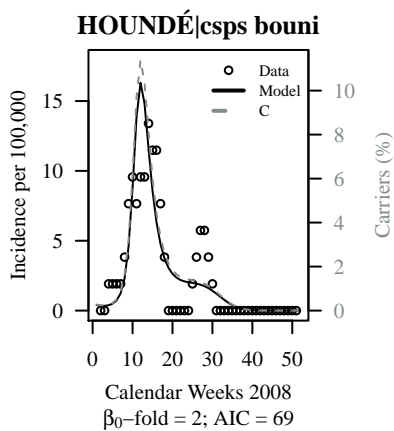
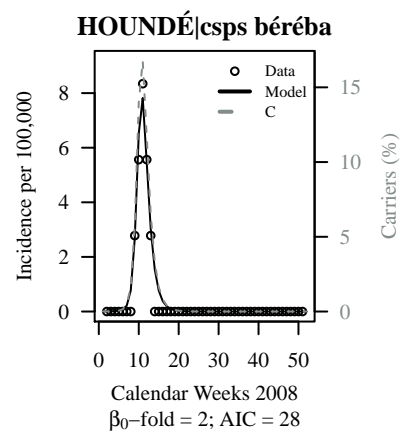
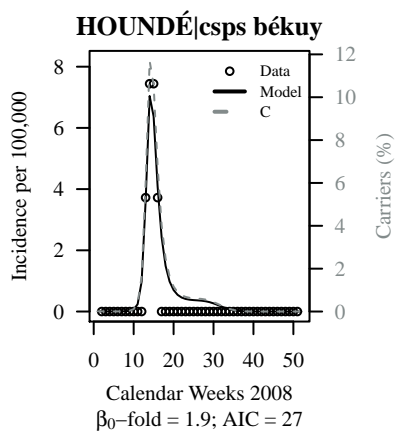
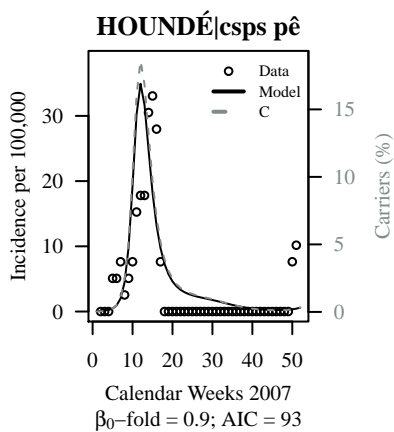


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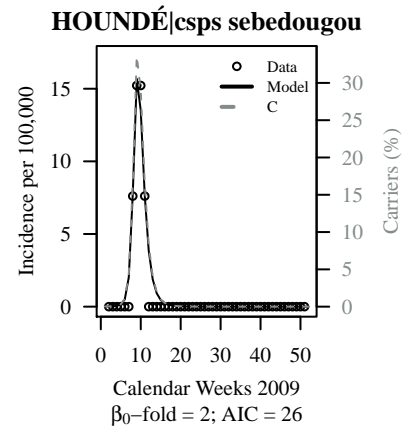
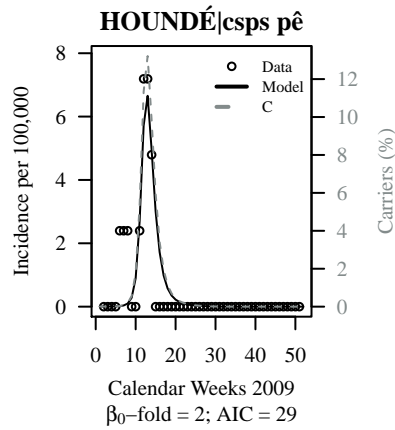
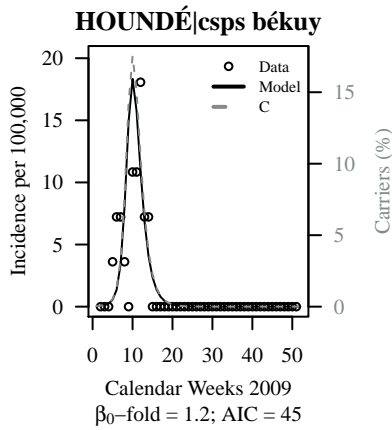
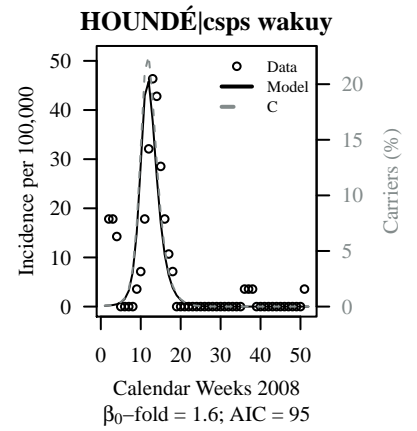
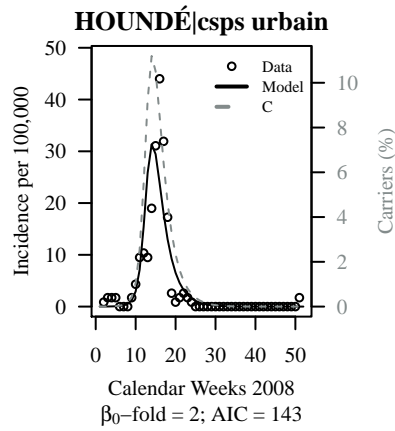
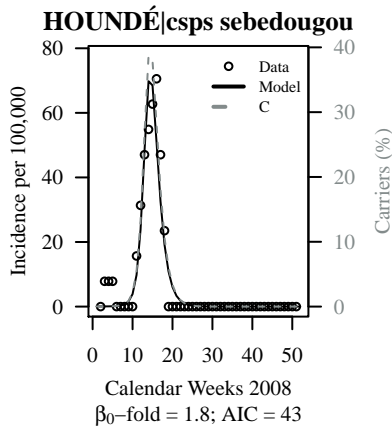
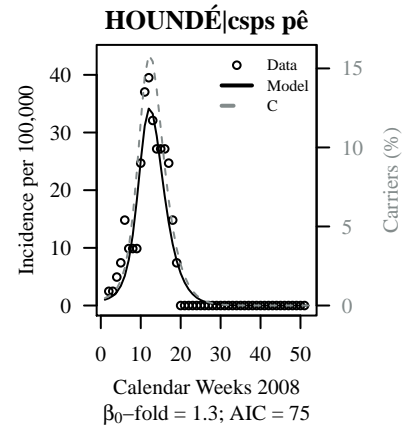
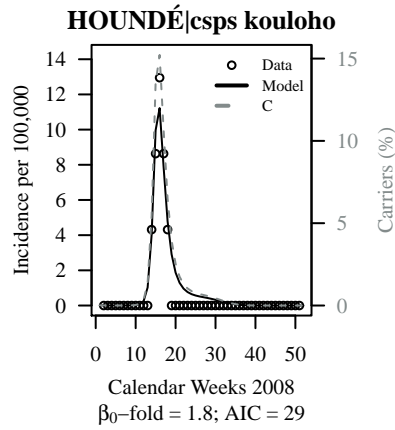
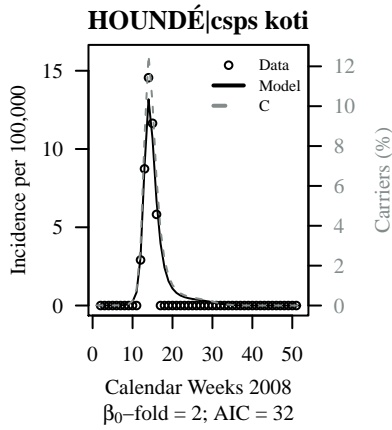


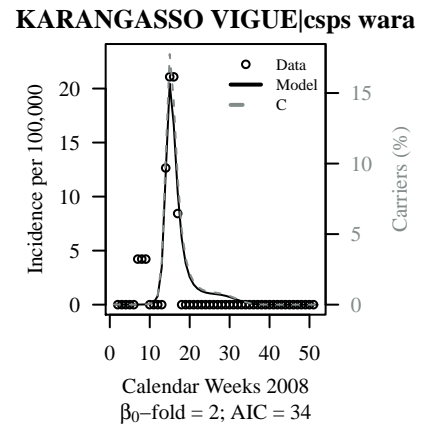
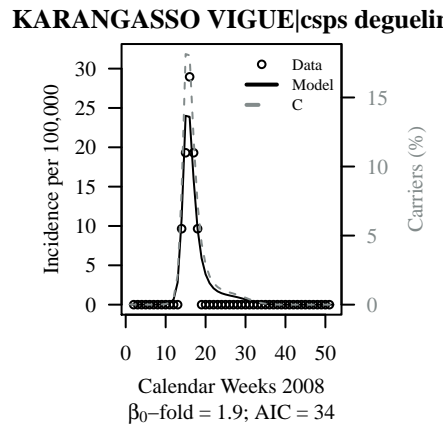
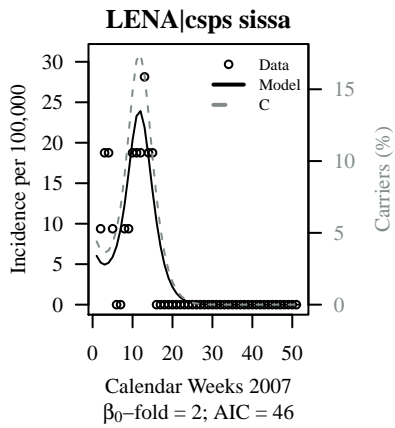
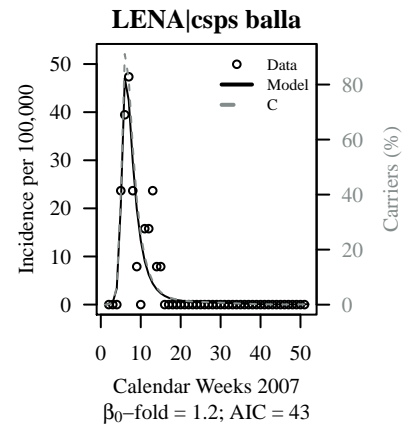
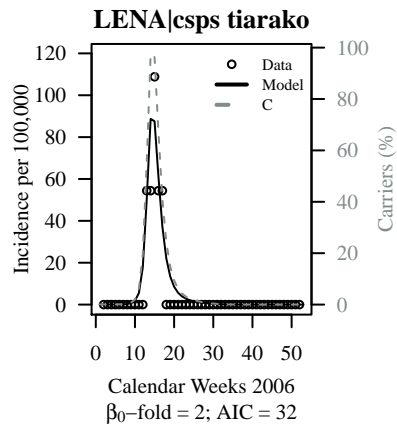
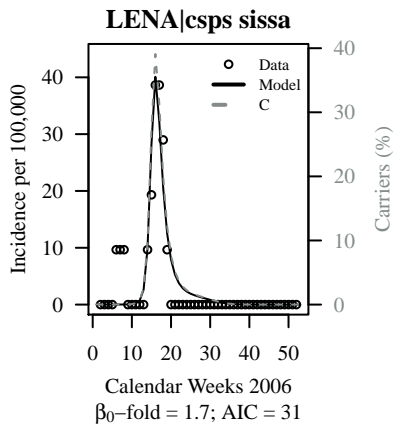
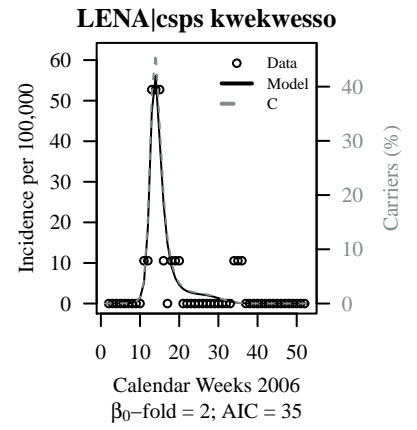
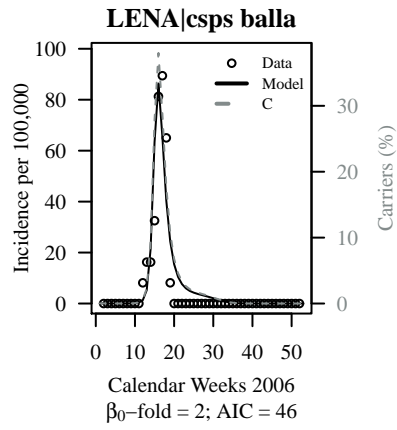
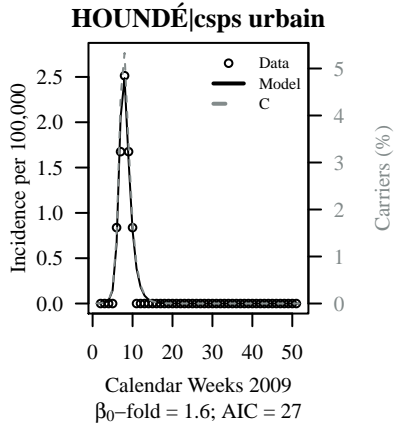




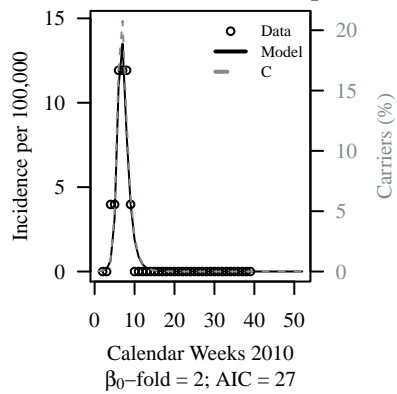








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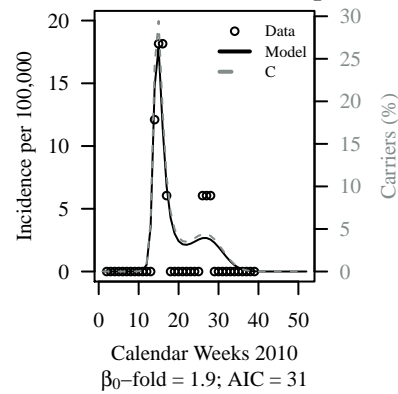
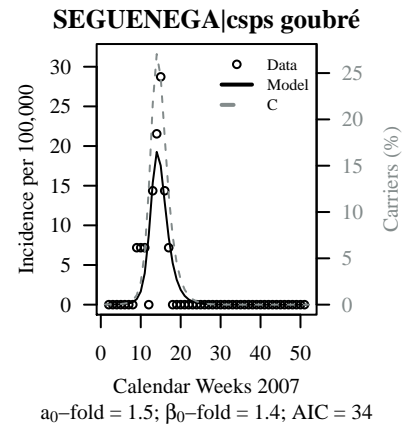
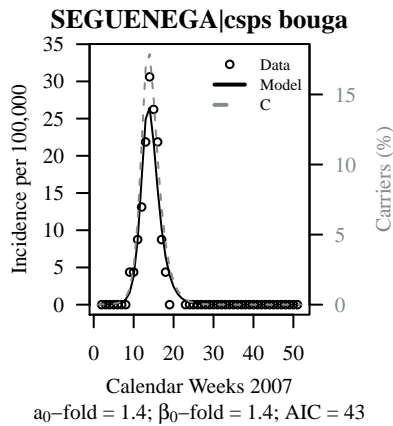
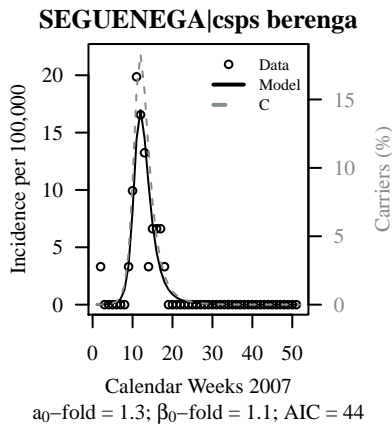
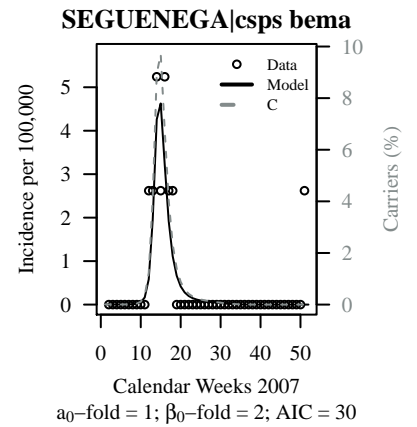
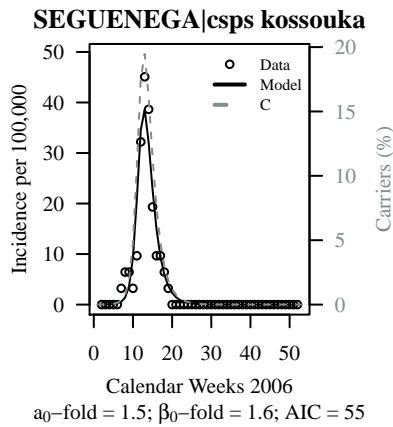
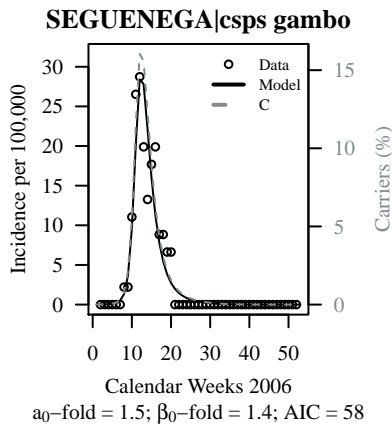
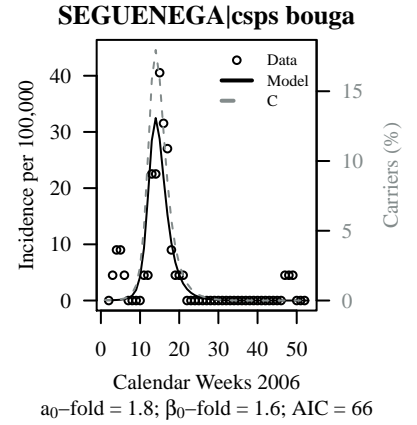
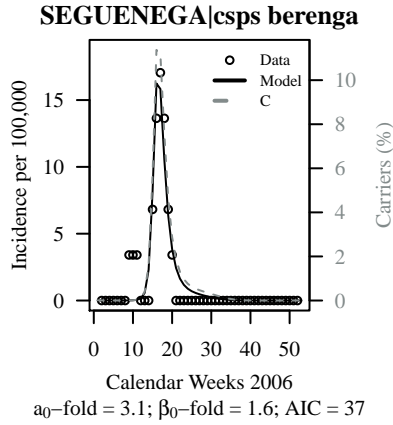
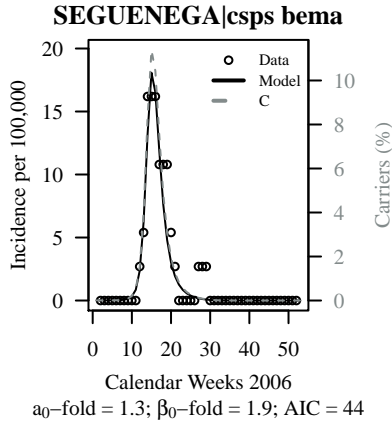
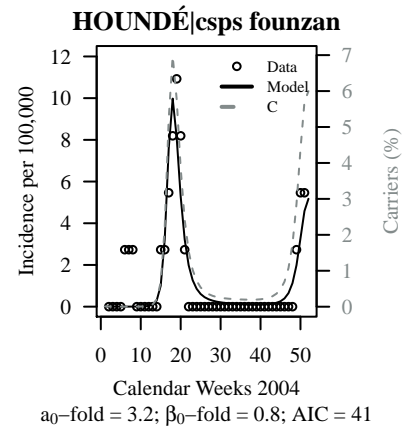
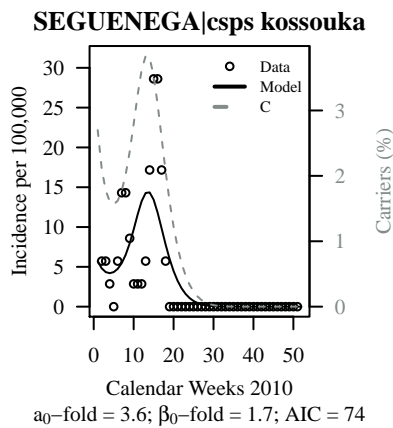
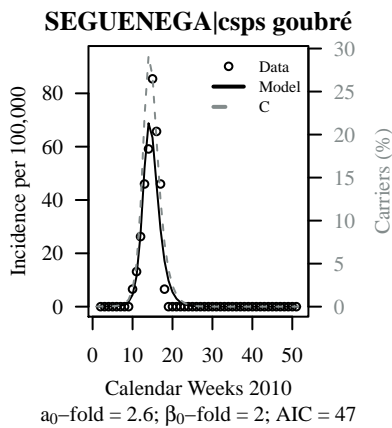
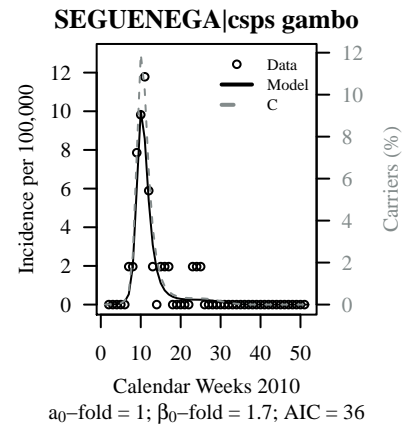
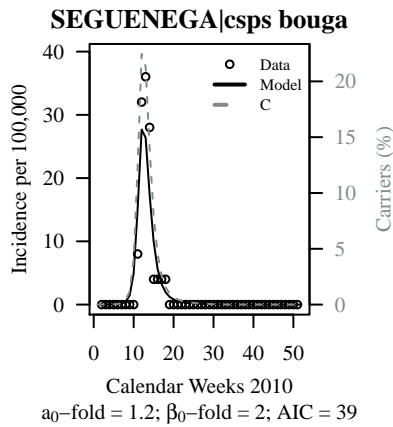
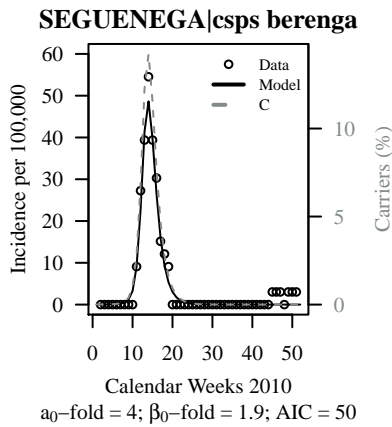
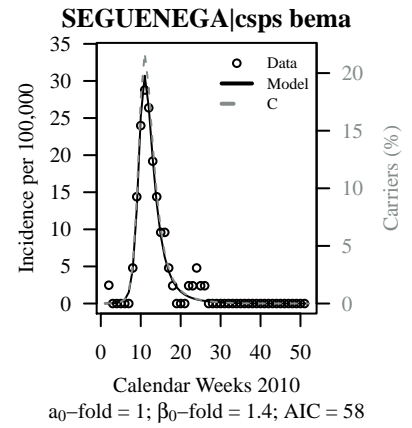
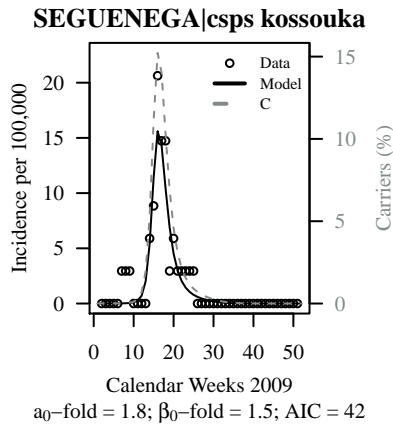
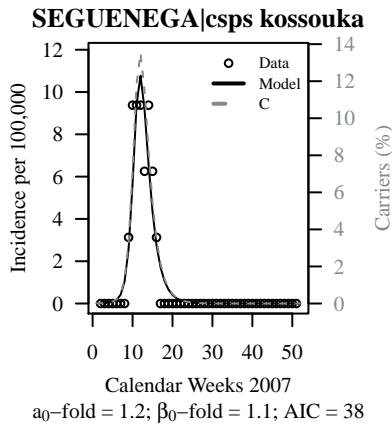
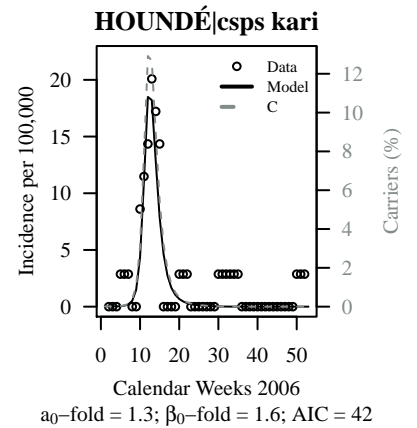
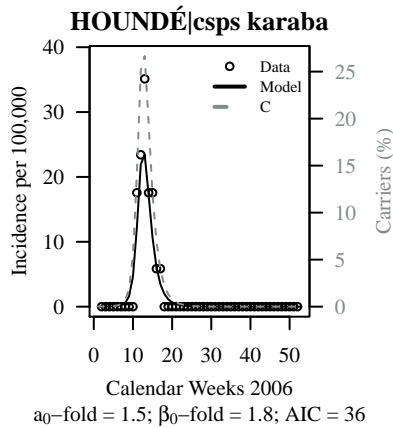
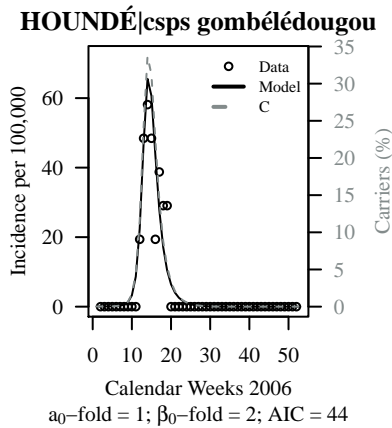
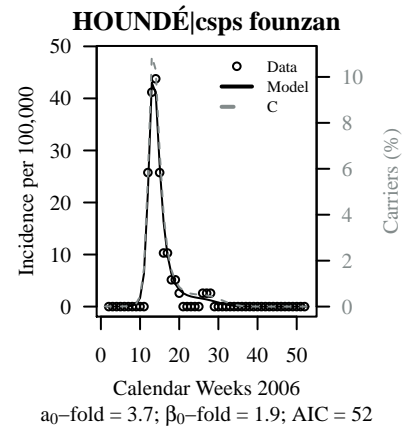
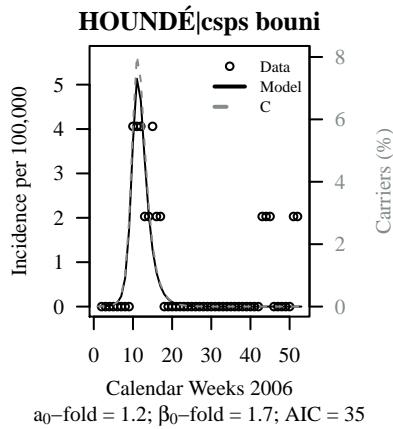
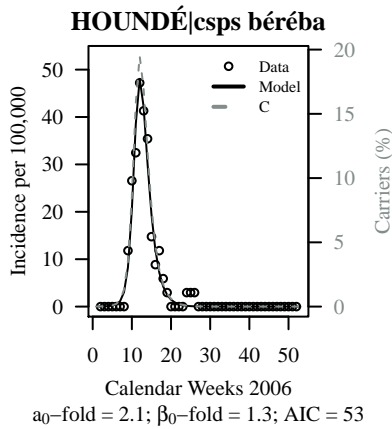
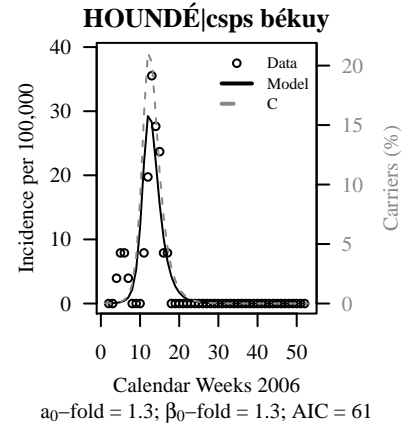
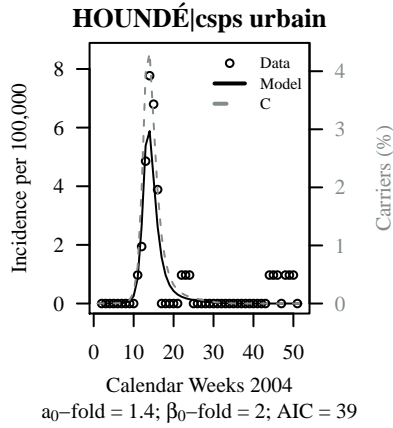
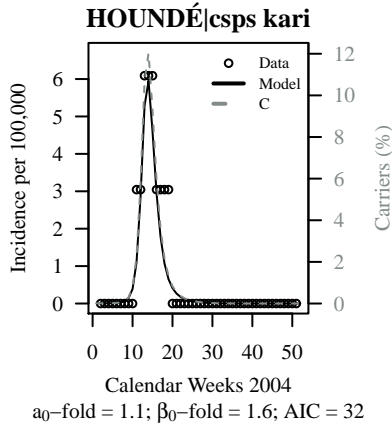
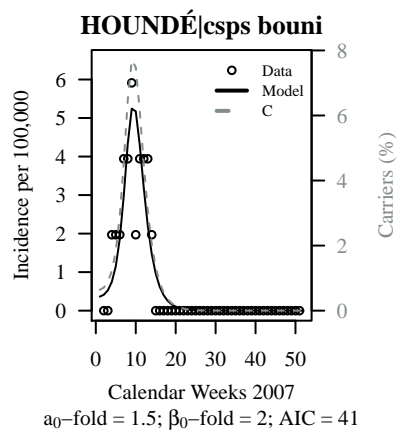
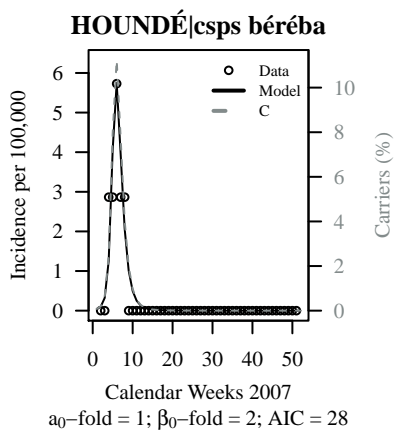
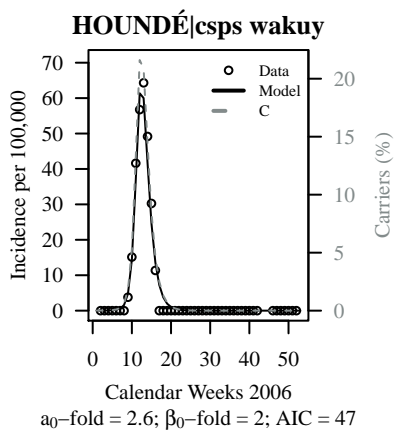
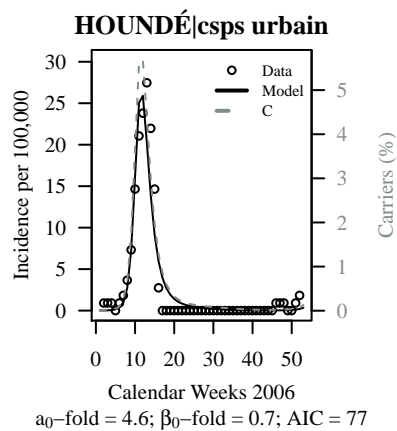
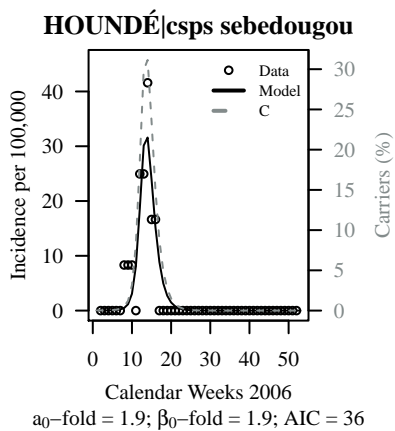
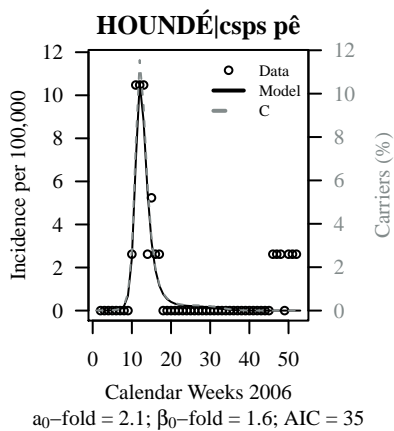
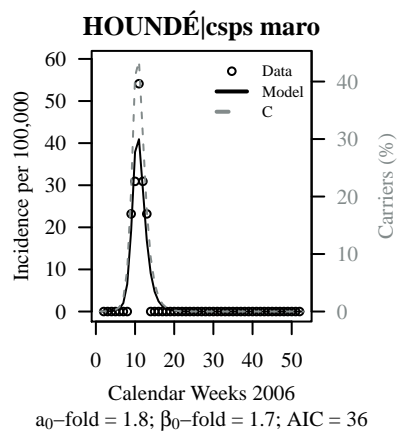
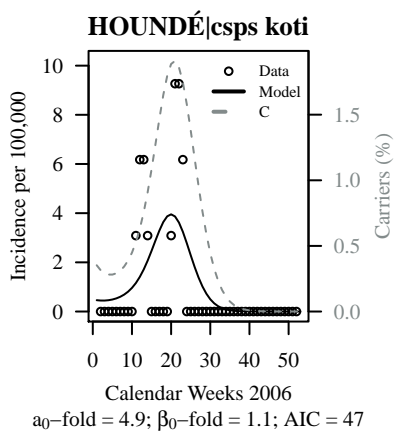
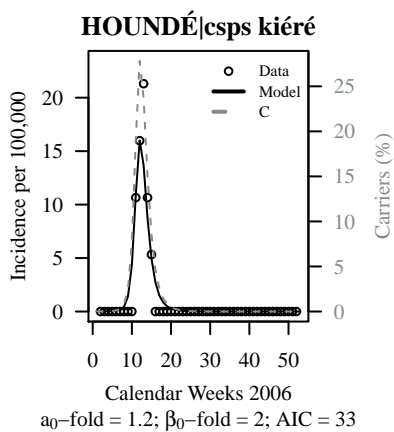


Figure 3. Model3-"inv-transm" trajectories matching plots of simulated and observed (weekly) data, for 64 health center-years with complete data, across four health districts of Burkina faso (2004–2010).

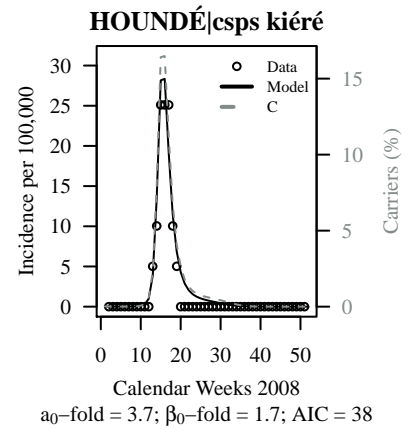
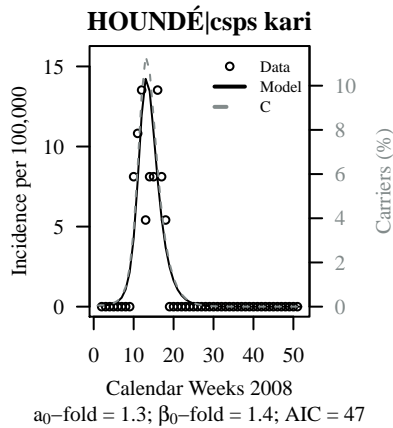
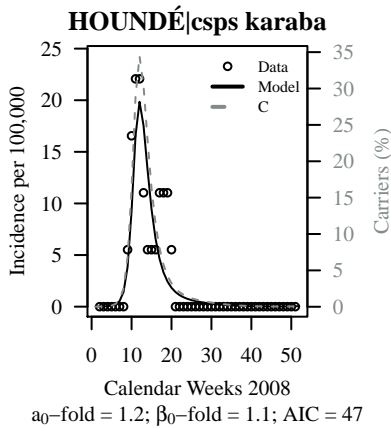
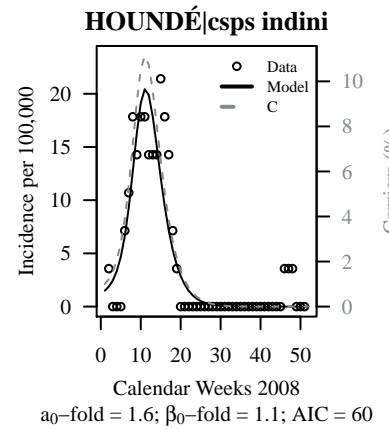
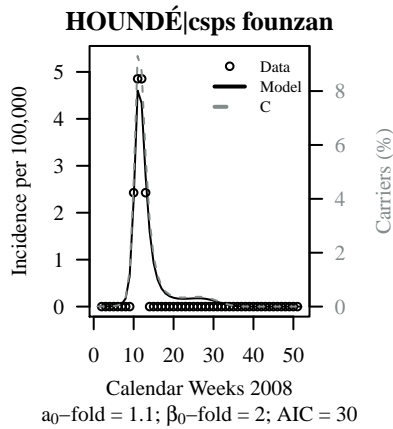
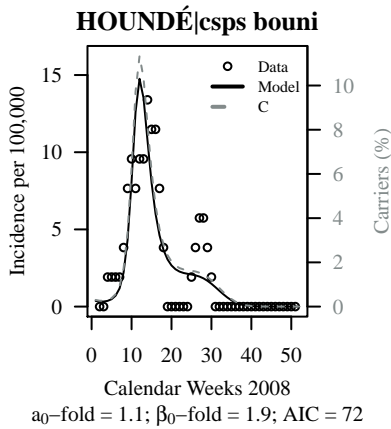
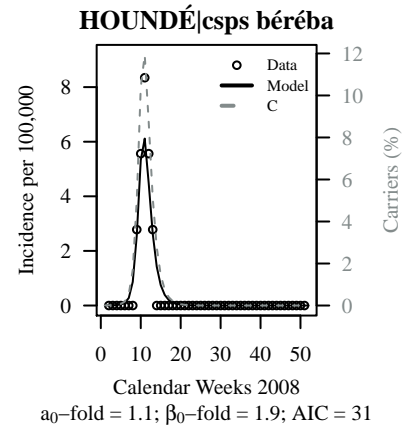
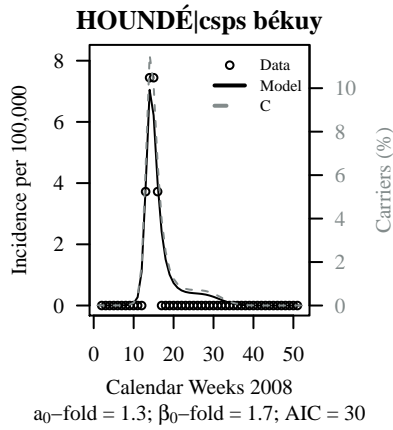
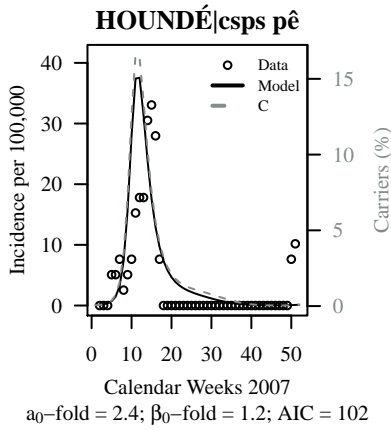


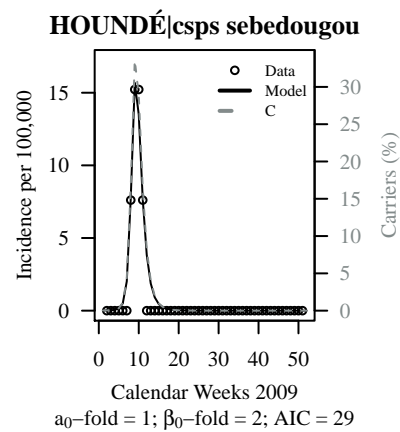
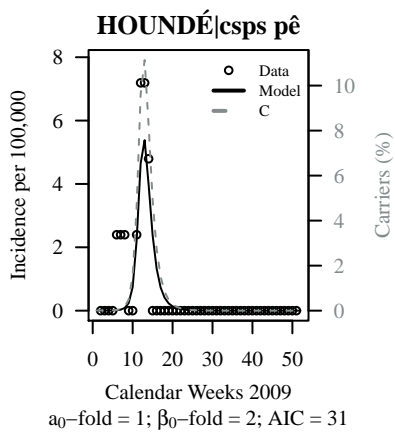
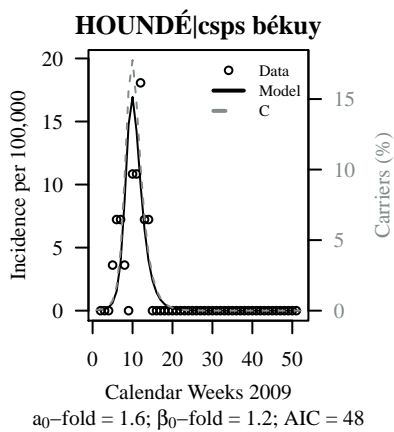
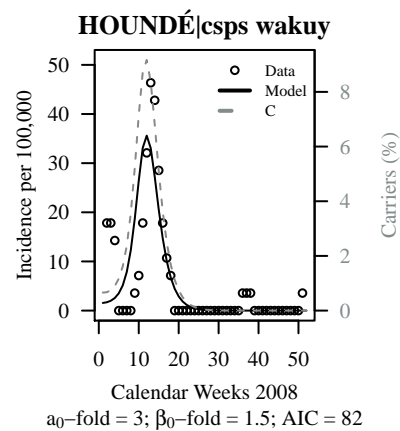
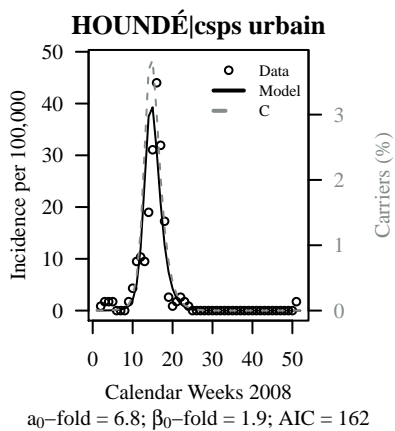
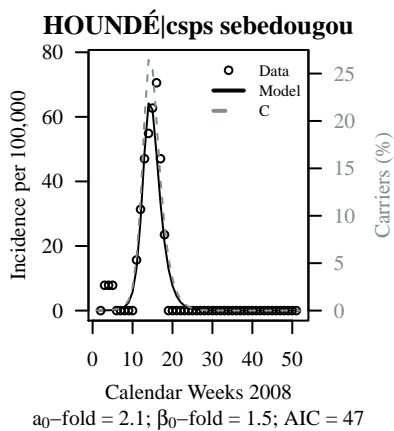
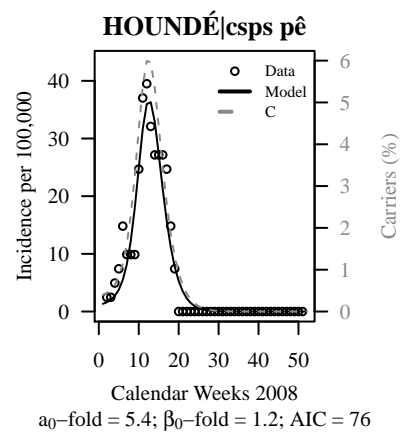
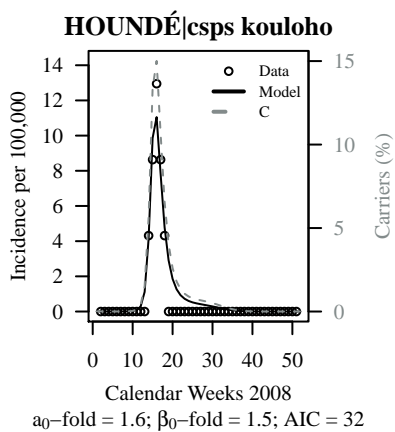
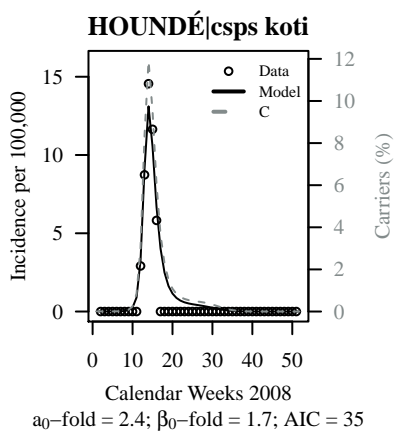


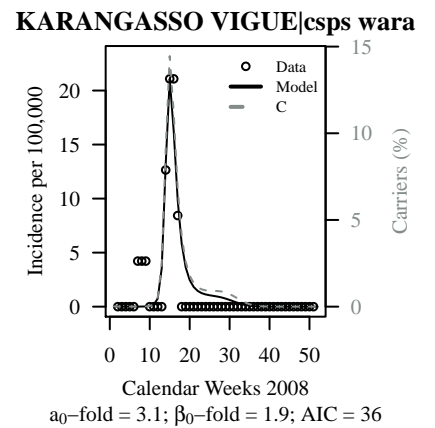
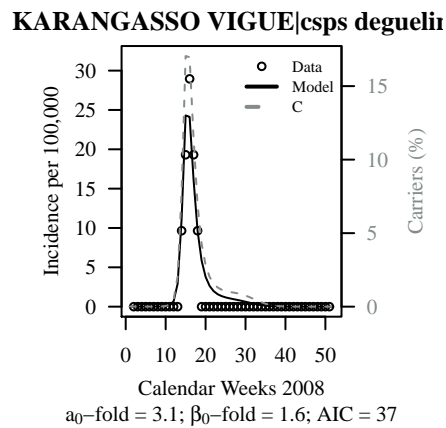
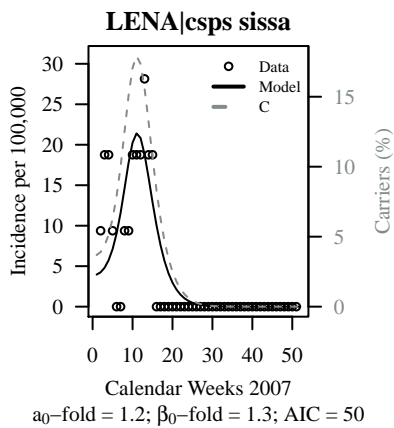
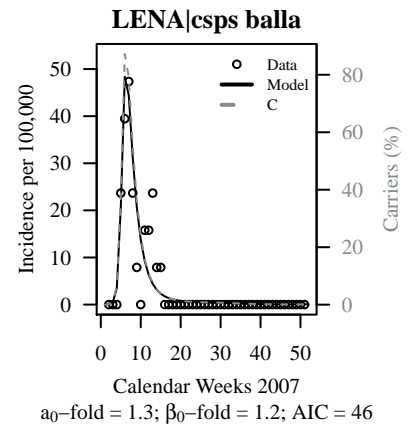
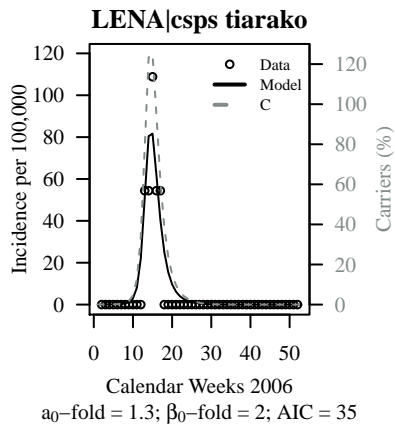
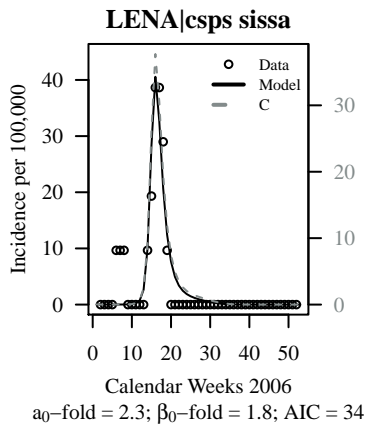
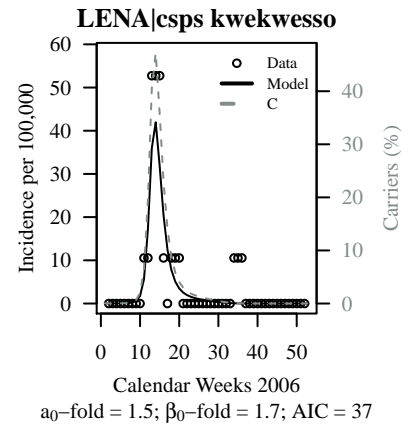
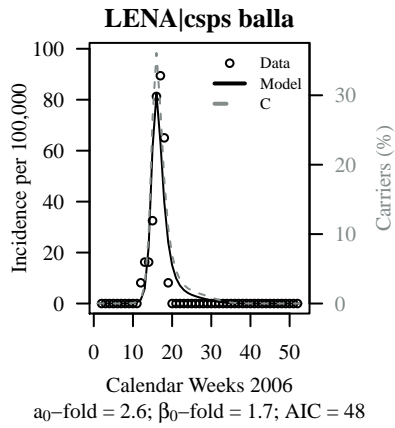
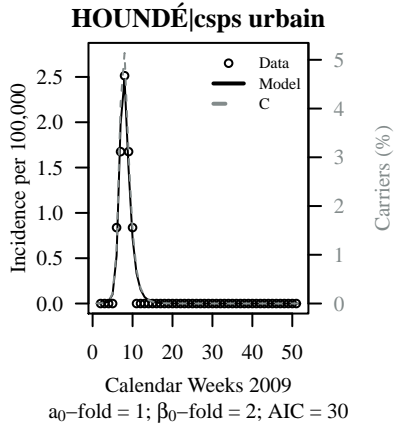




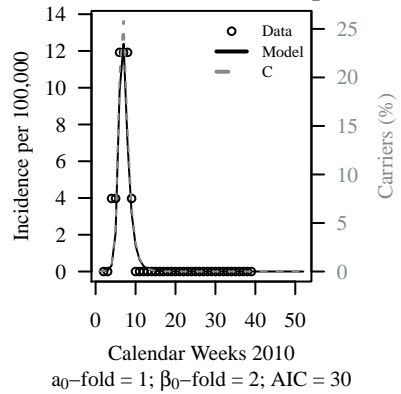








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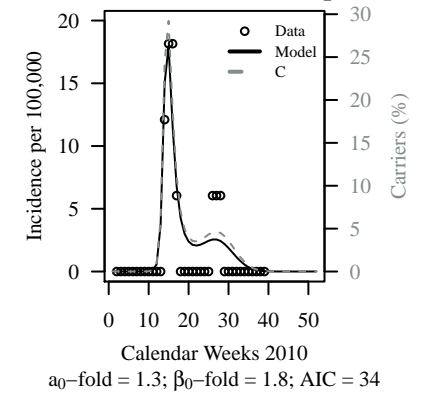
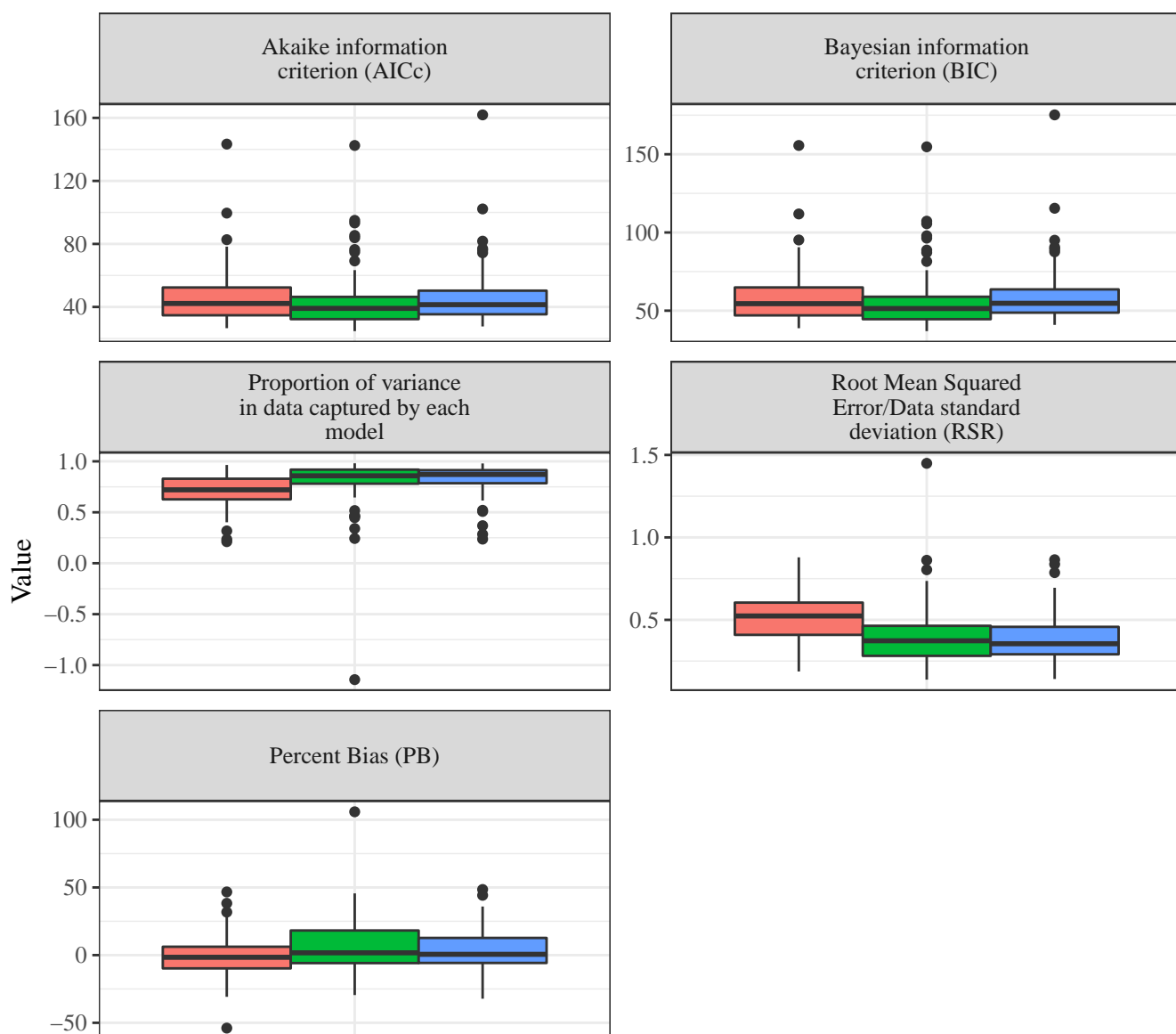


Figure 4. Distribution of parameters estimates and models performance stats, for 64 health center–years with complete data, across four health districts of Burkina faso (2004–2010).

## Distribution of model performance stats across the 64 health center...years

Models ■ model1-Inv ■ model2-Transm ■ model3-Inv-Transm



Distribution of parameters estimates across the 64 health center...years

Models ■ model1-Inv ■ model2-Transm ■ model3-Inv-Transm

