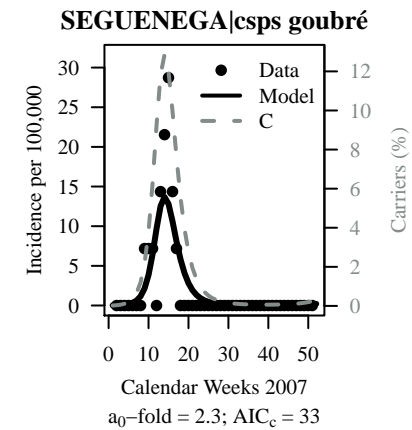
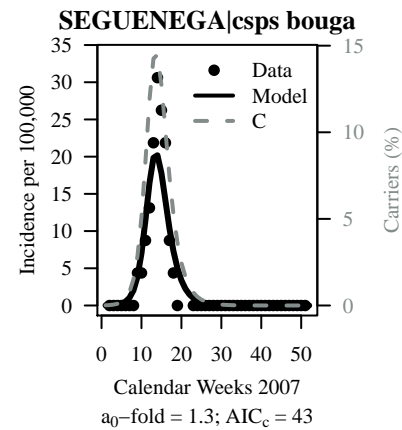
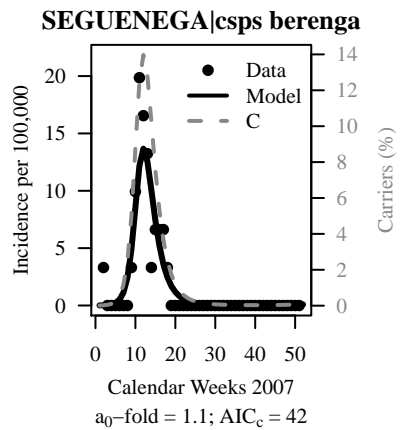
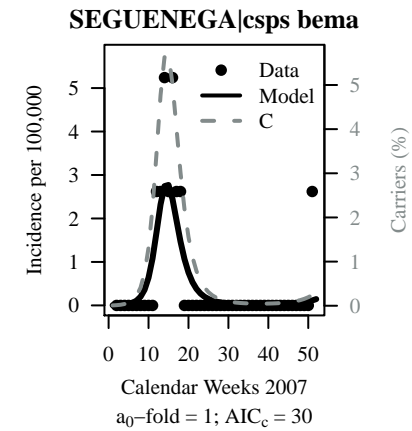
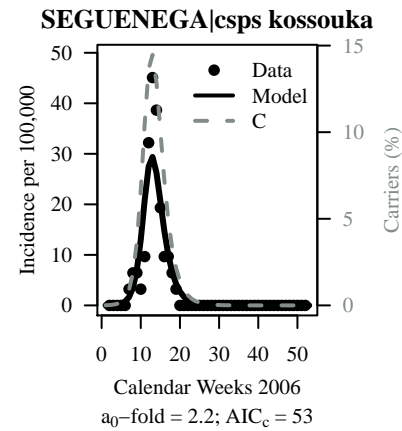
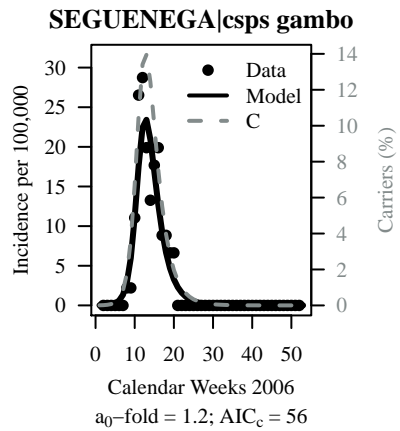
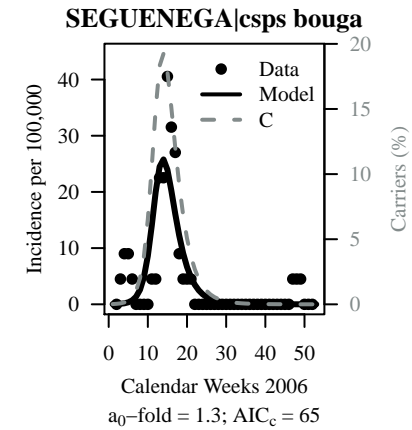
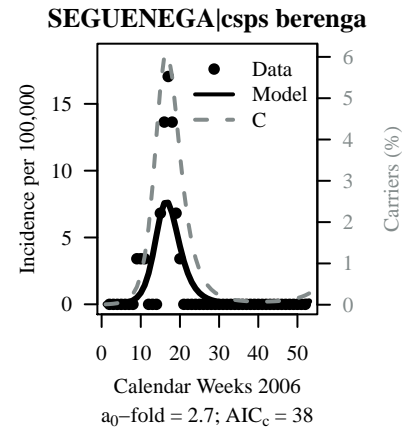
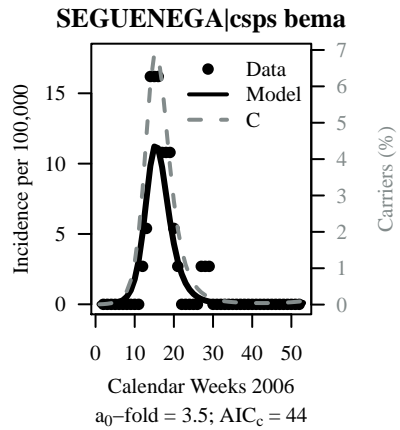
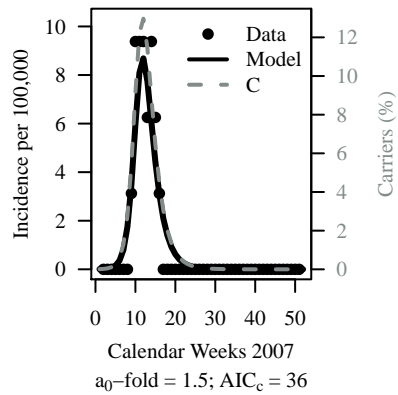


Results of model estimations using a poisson maximum likelihood approach.

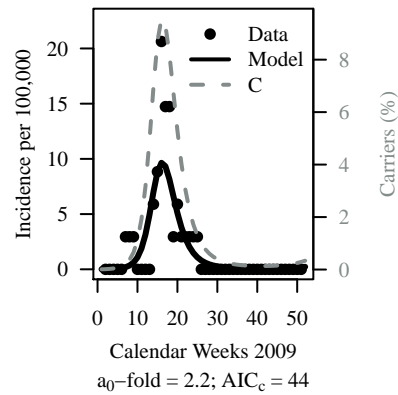
Figure 1. Model1—"inv" trajectories matching plots of simulated and observed (weekly) data, for 64 health center-years with complete data, across four health districts of Burkina faso (2004–2010).



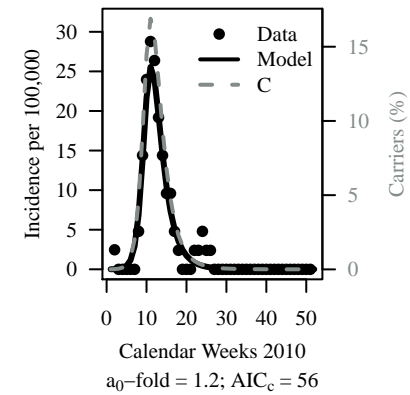
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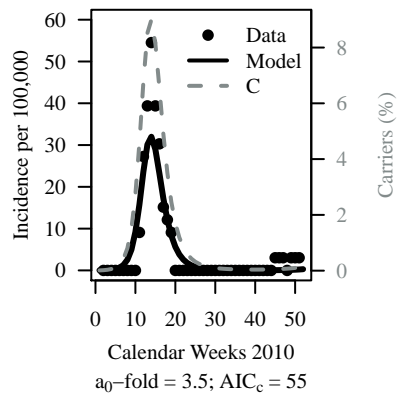
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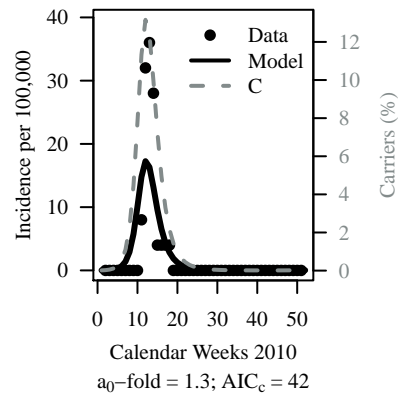
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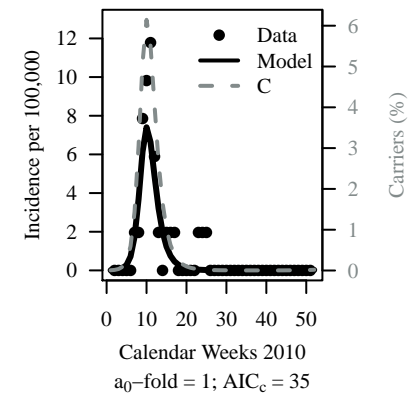
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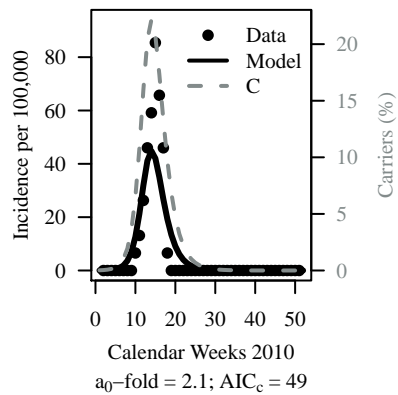
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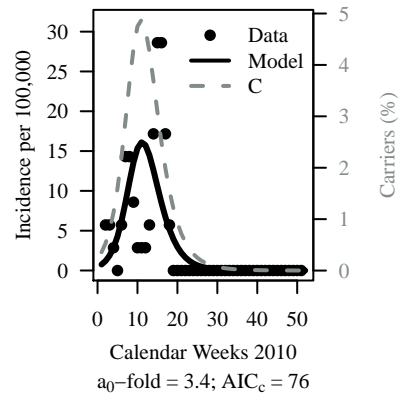
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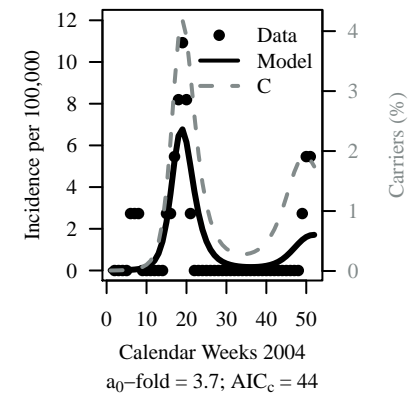
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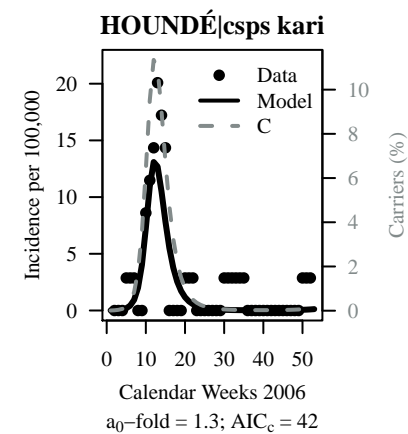
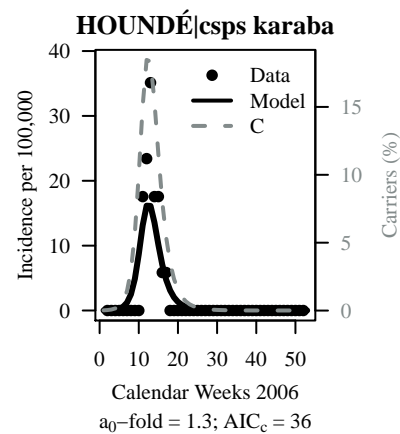
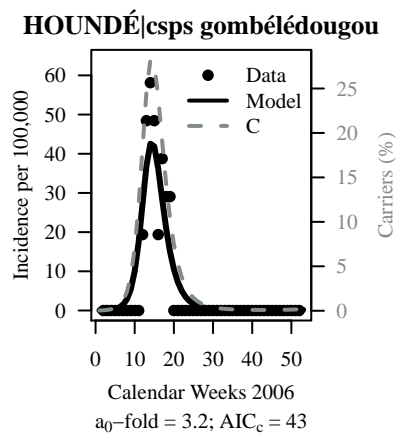
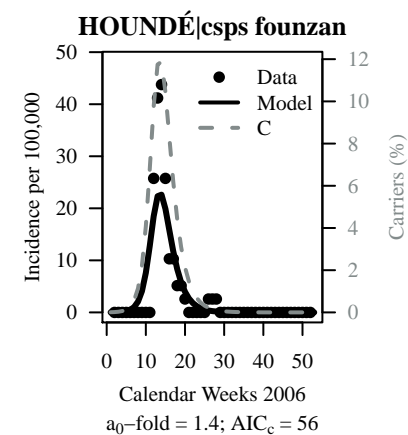
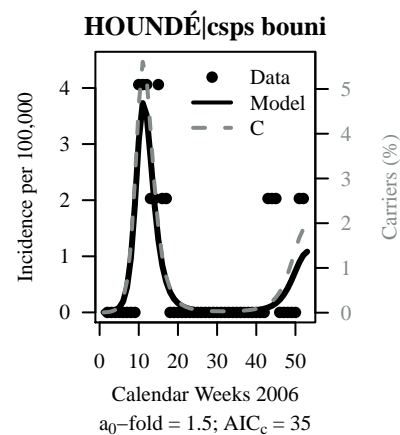
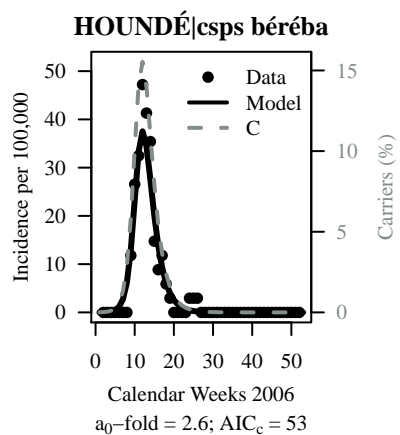
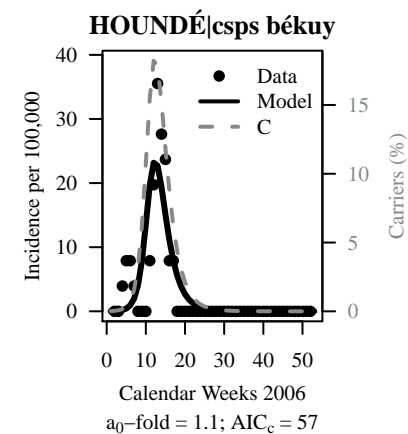
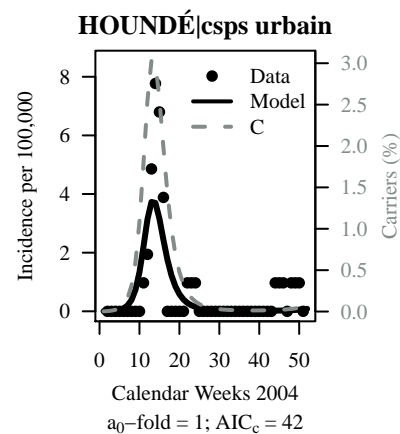
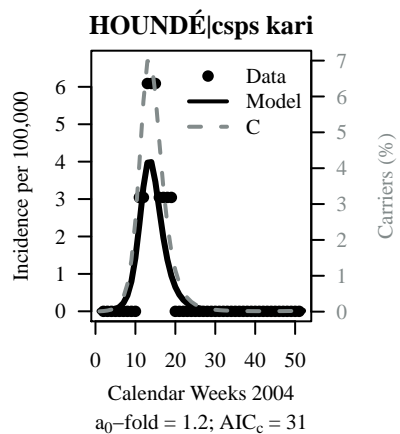


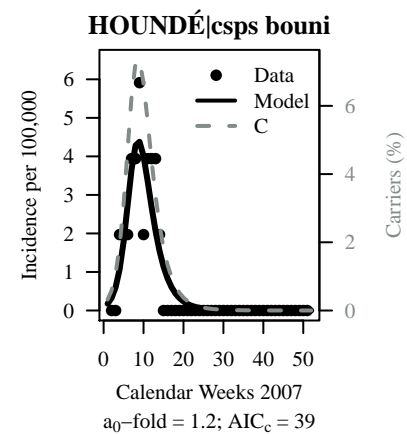
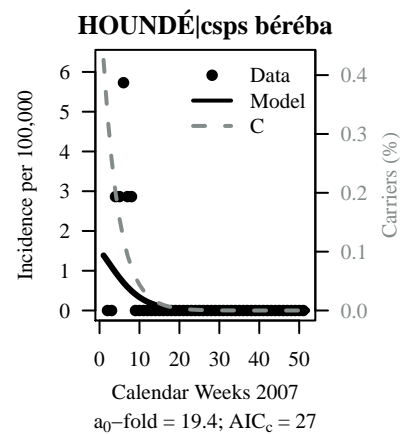
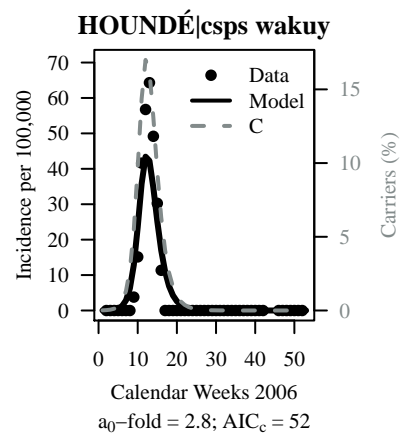
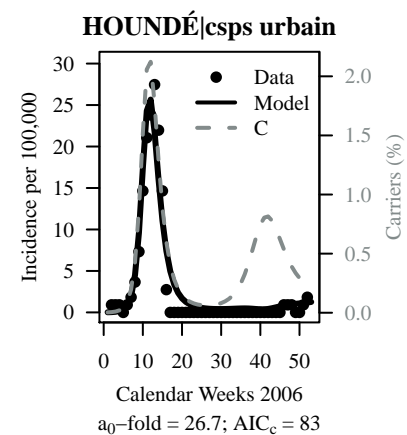
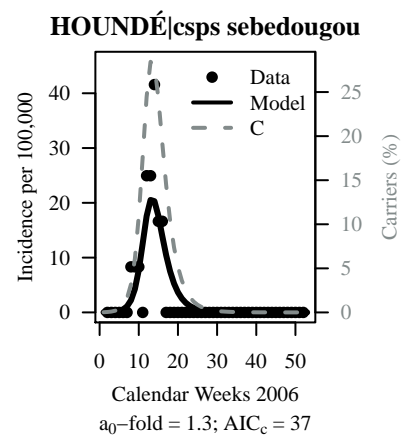
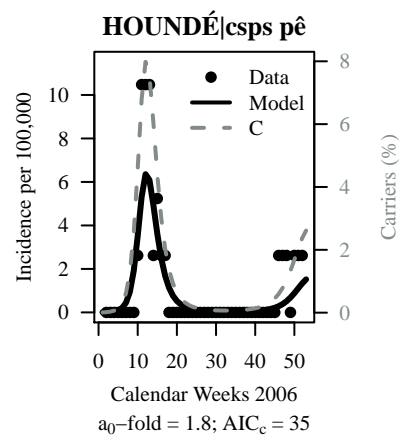
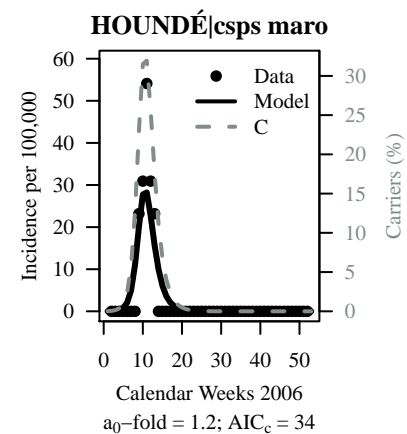
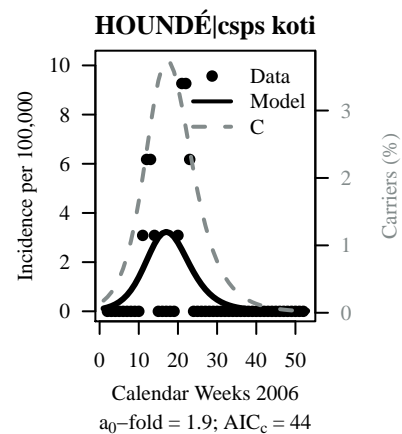
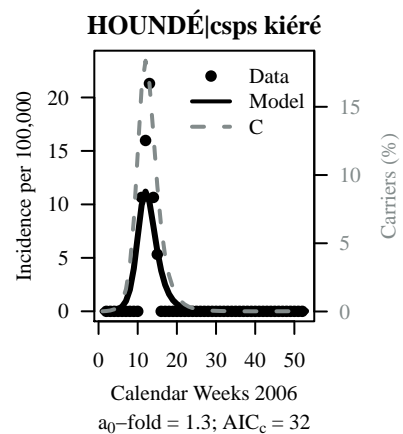
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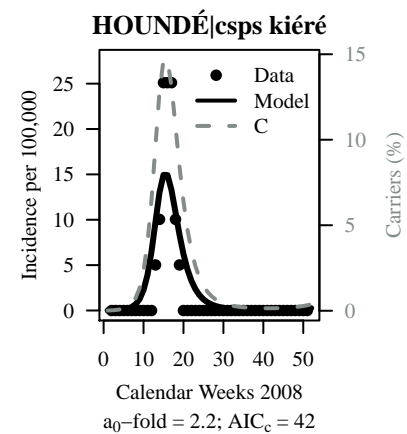
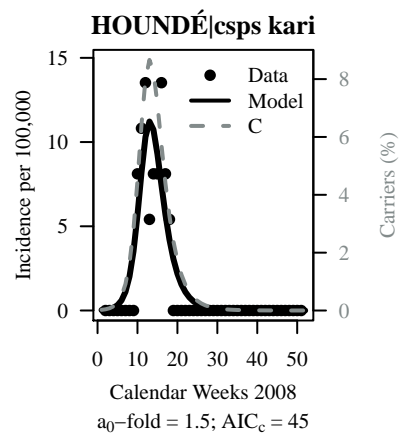
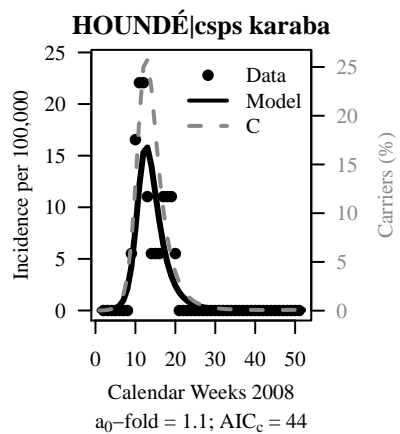
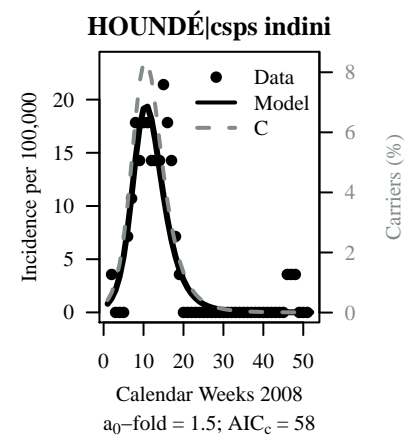
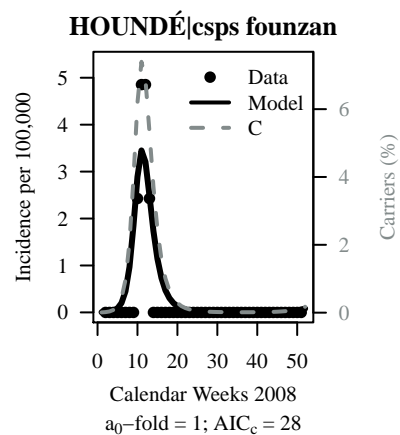
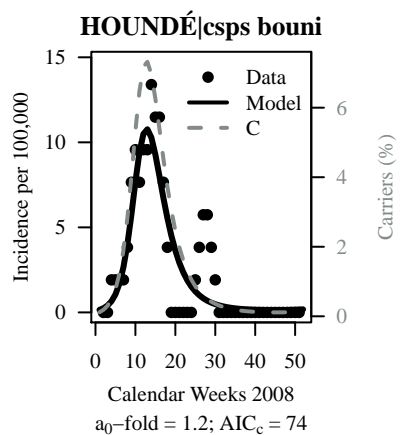
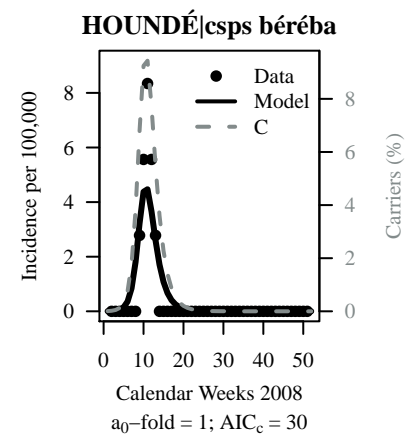
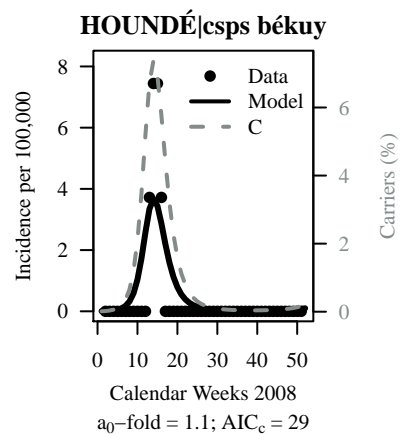
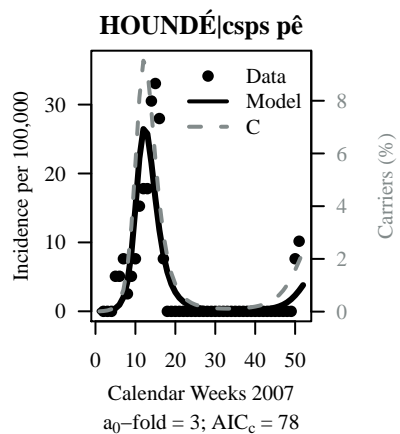


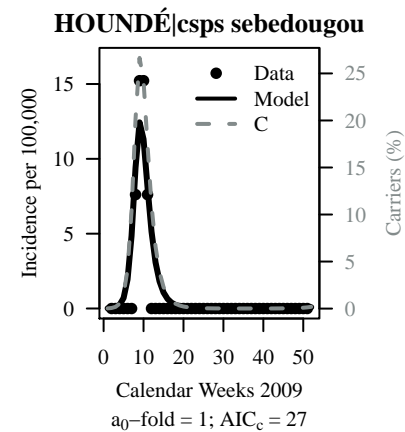
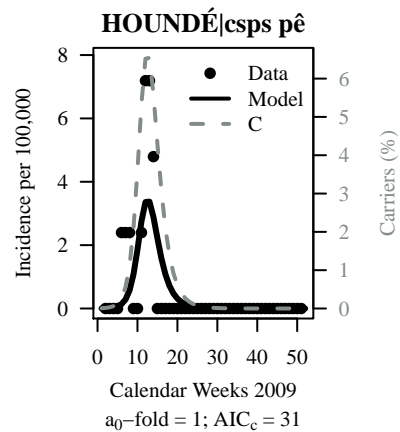
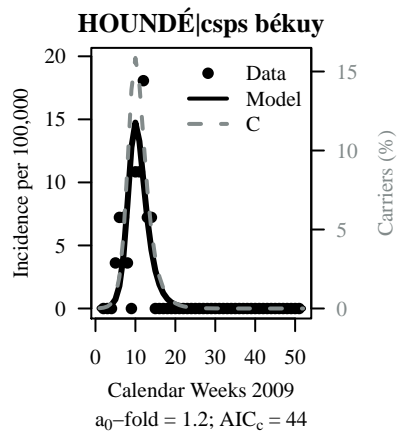
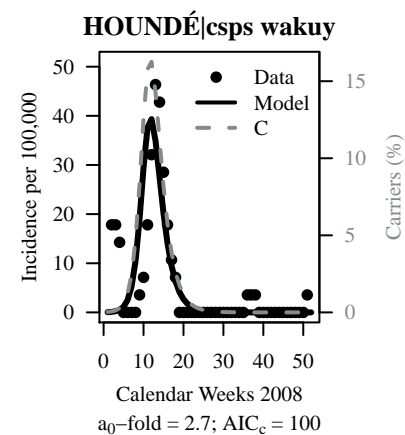
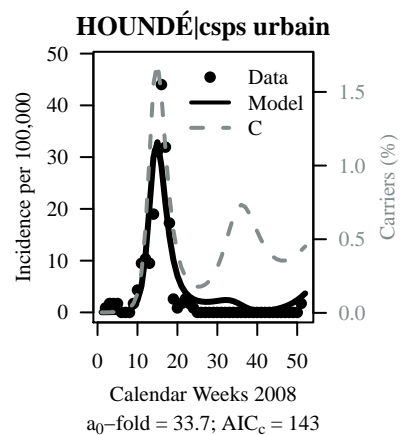
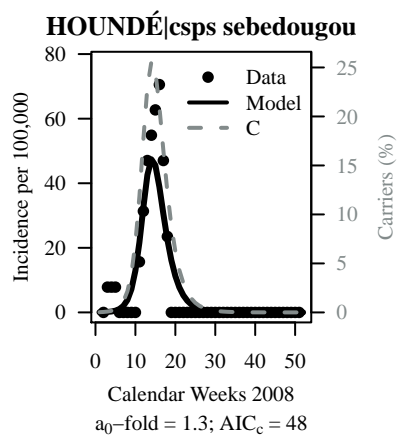
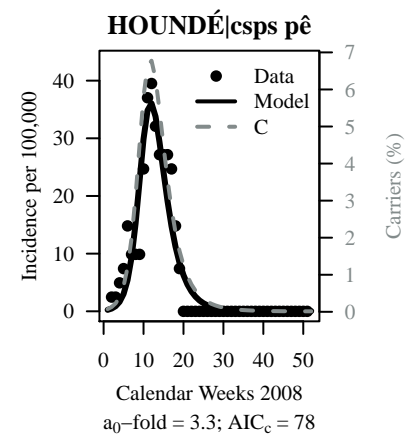
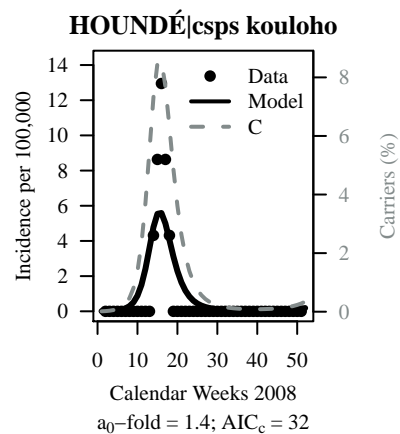
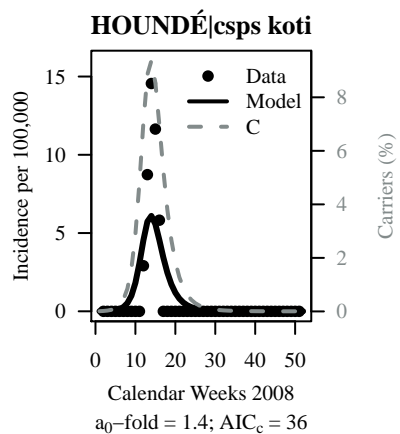
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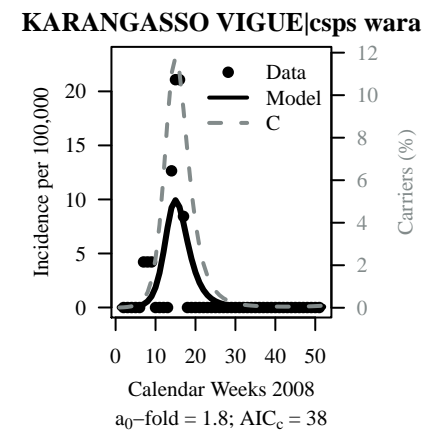
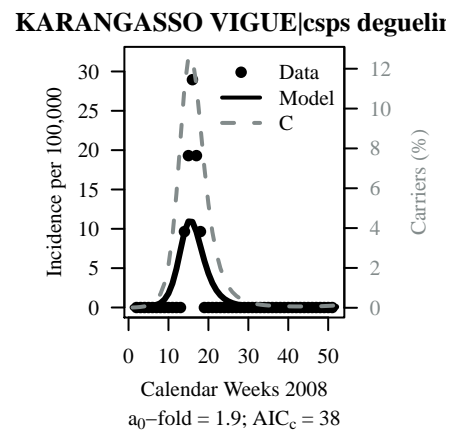
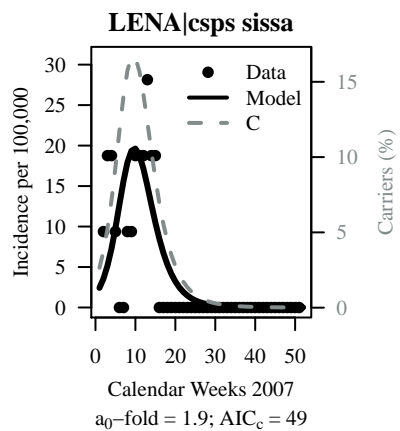
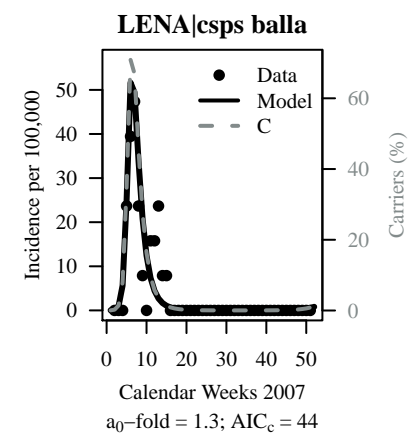
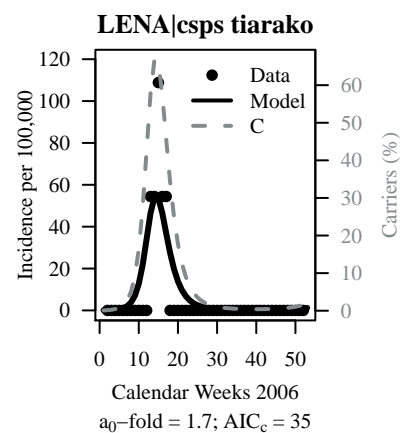
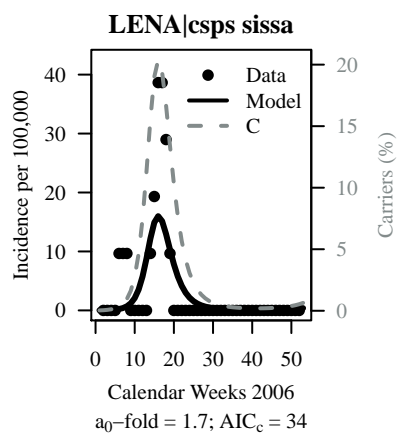
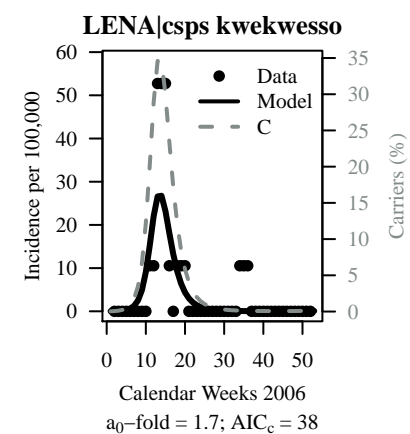
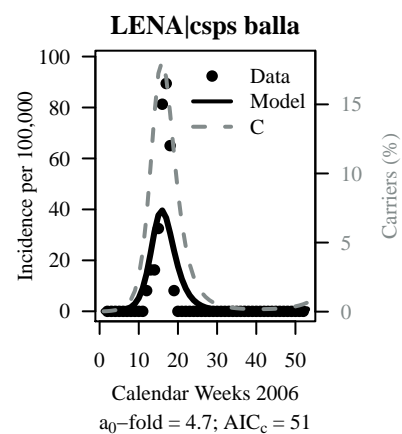
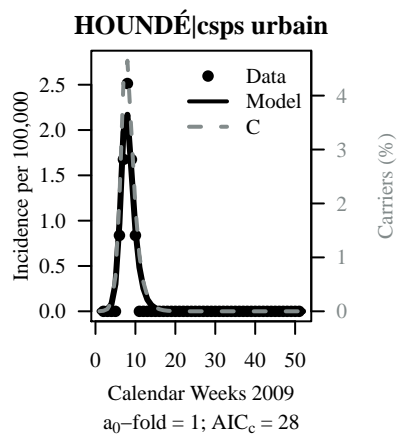




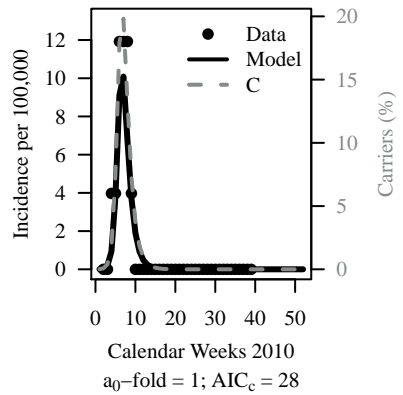








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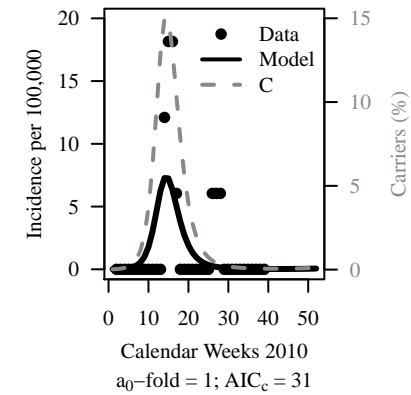
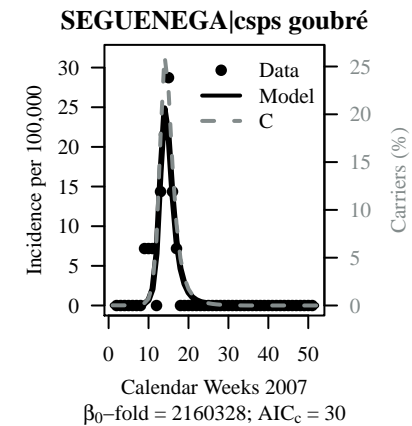
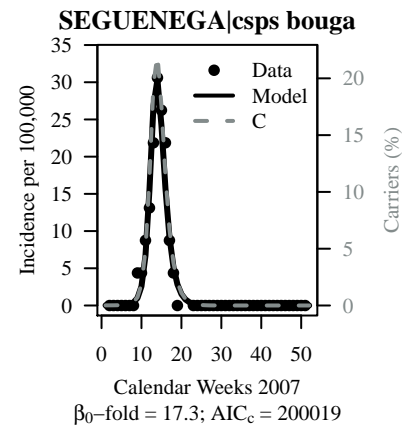
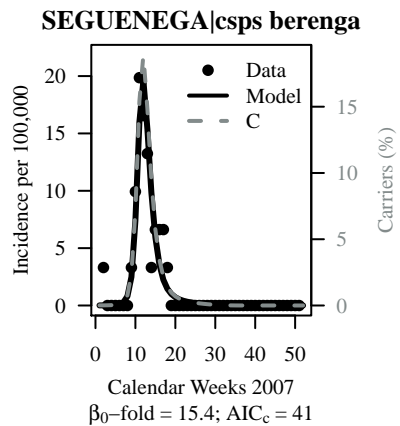
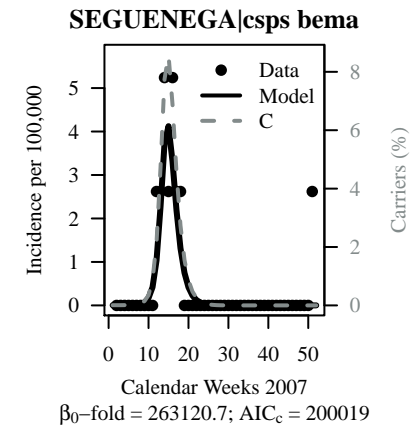
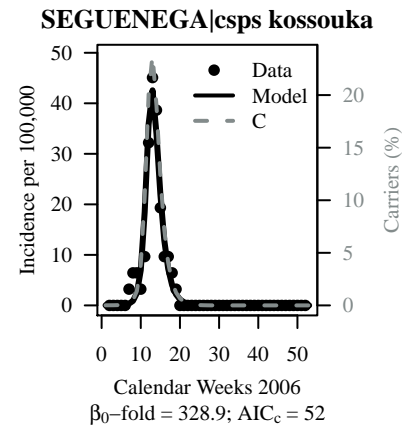
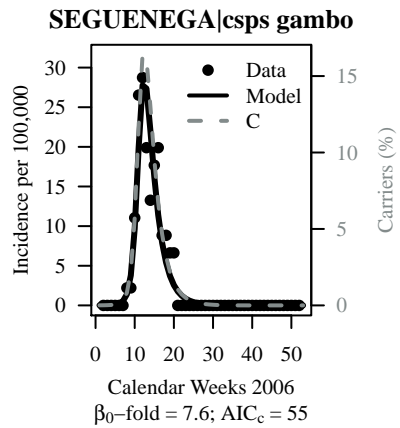
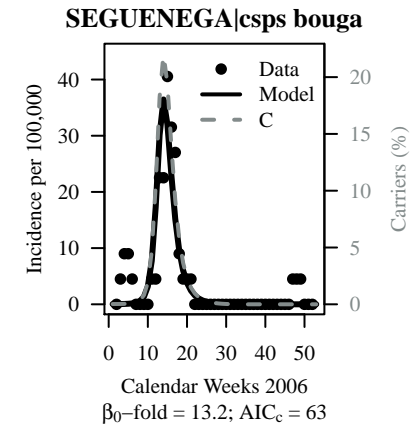
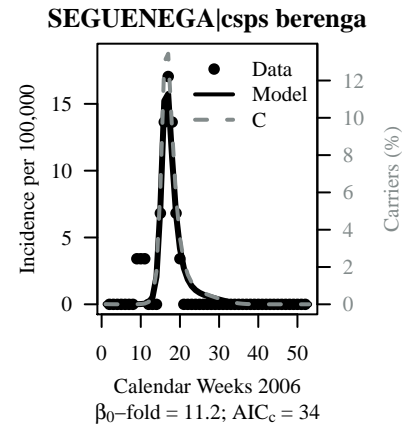
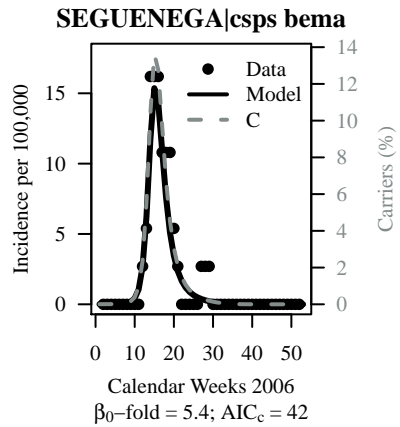
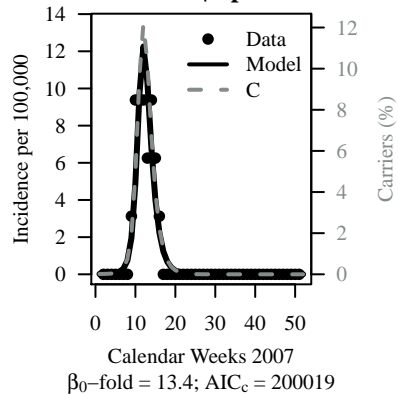


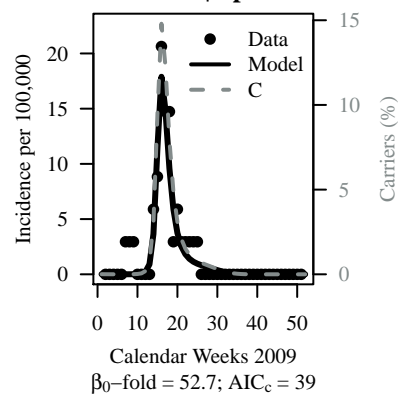
Figure 2. Model2—"transm" trajectories matching plots of simulated and observed (weekly) data, for 64 health center-years with complete data, across four health districts of Burkina faso (2004–2010).



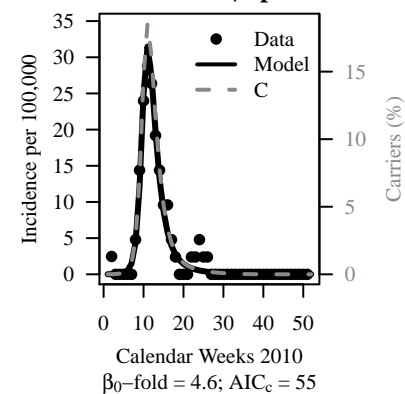
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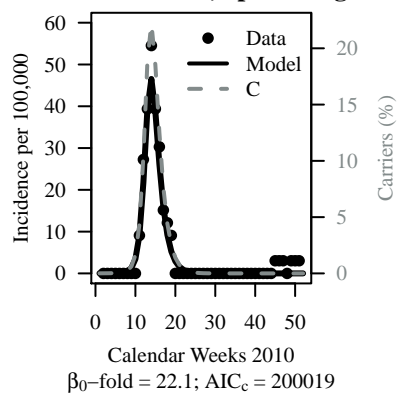
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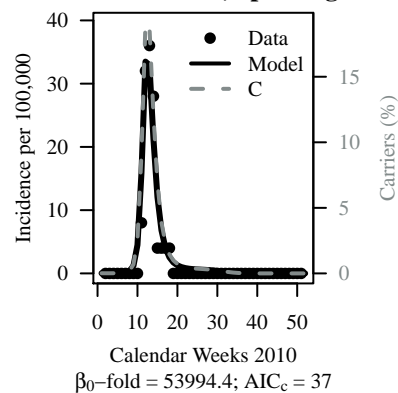
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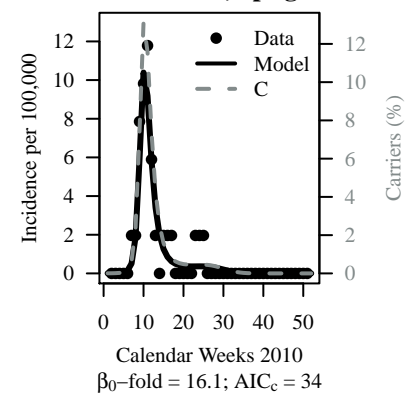
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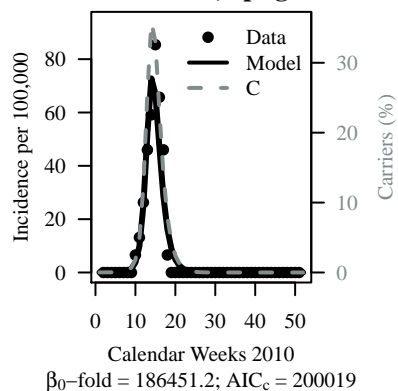
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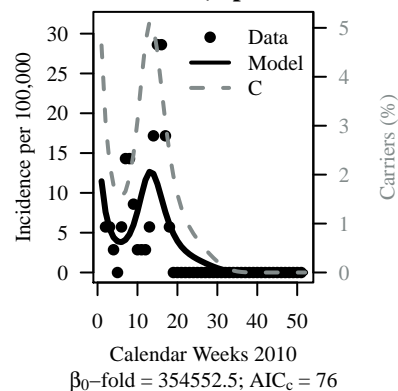
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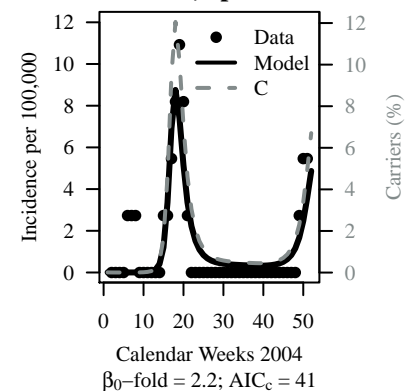
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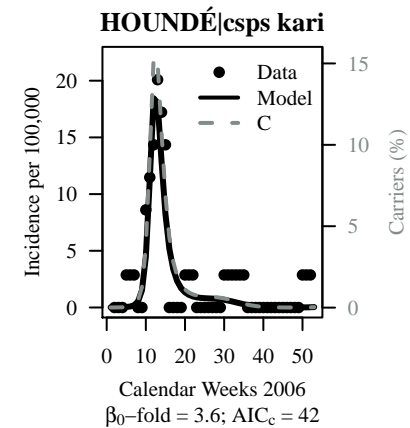
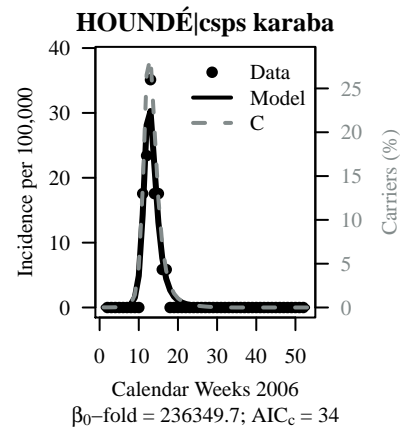
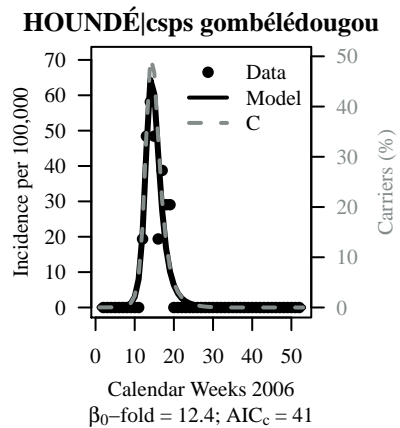
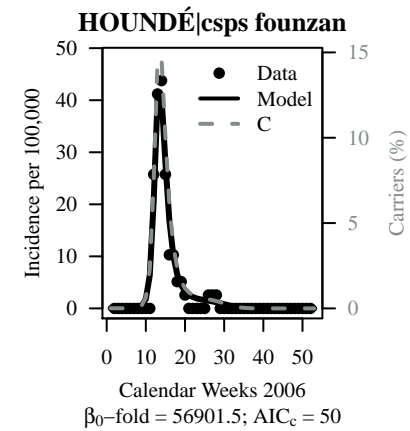
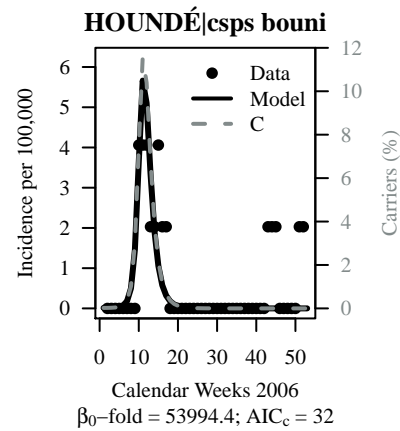
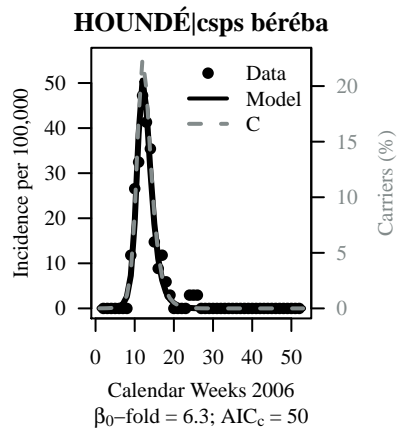
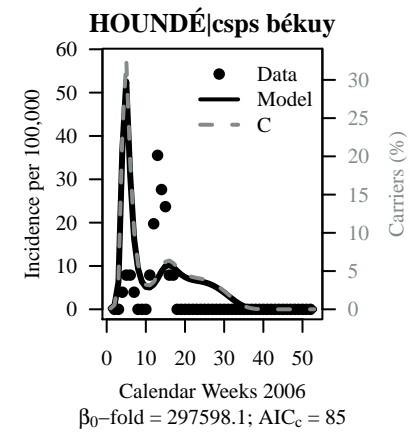
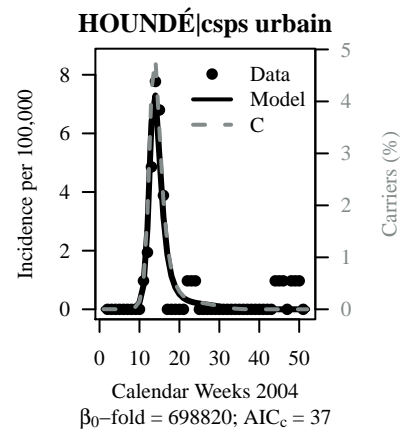
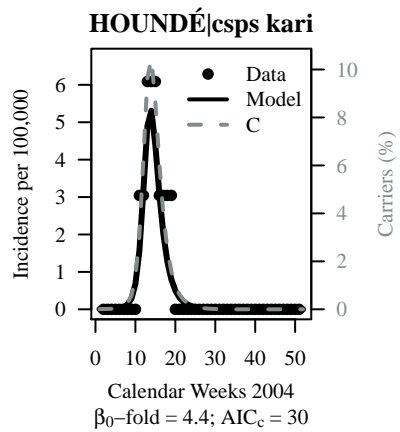


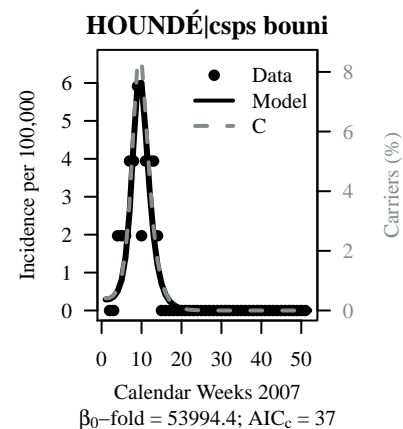
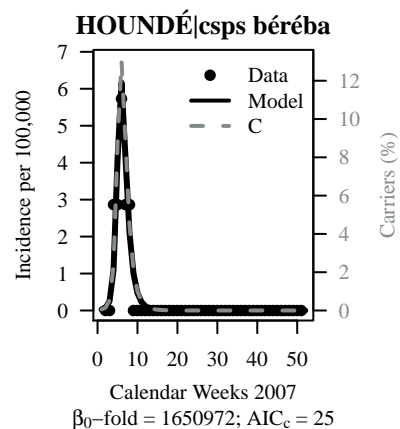
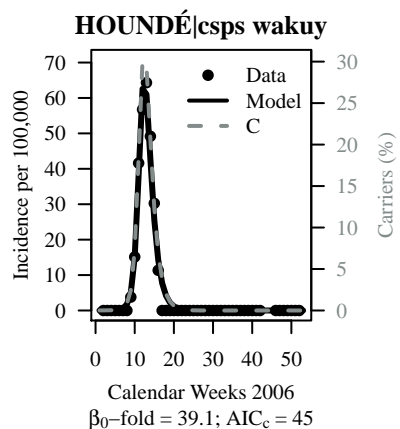
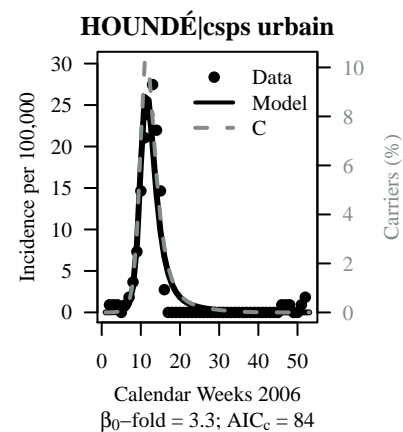
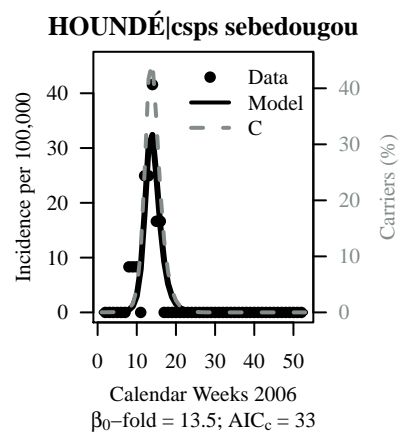
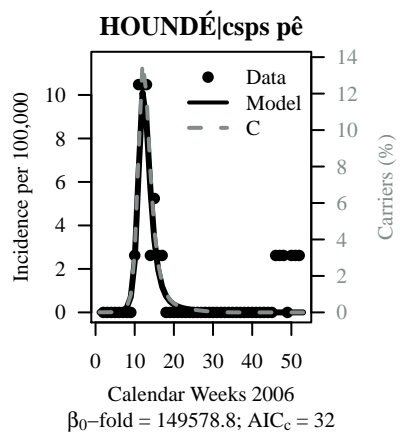
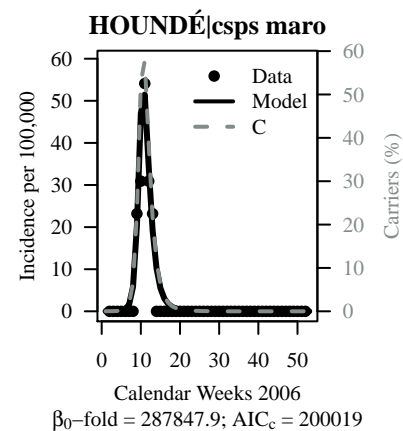
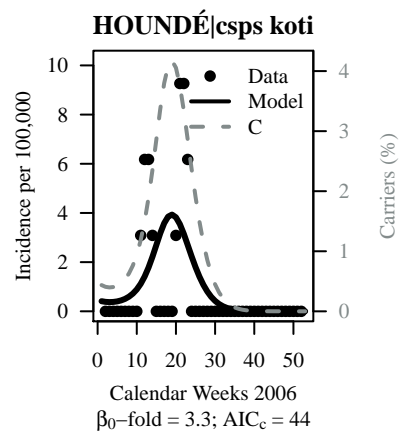
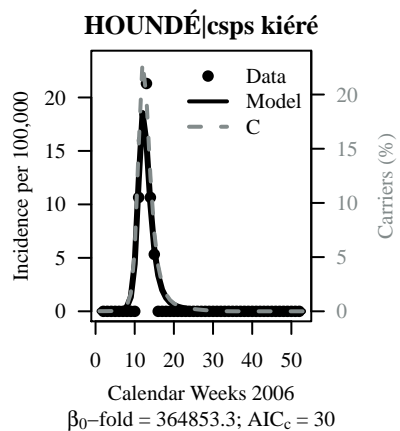
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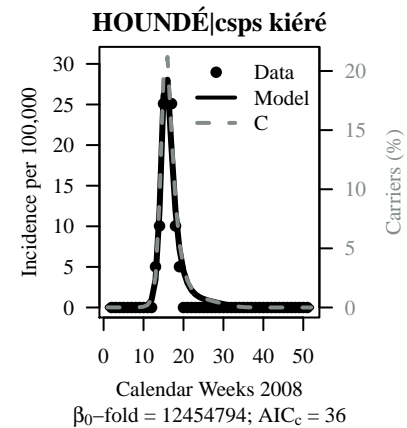
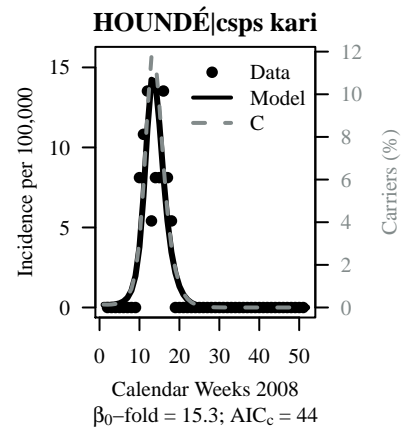
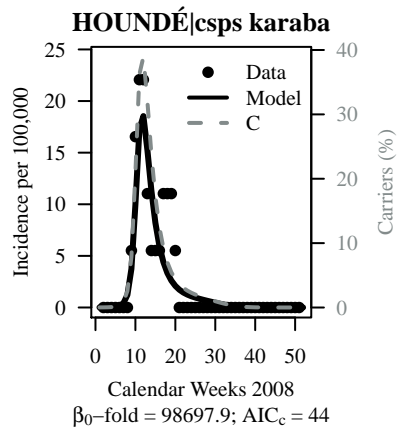
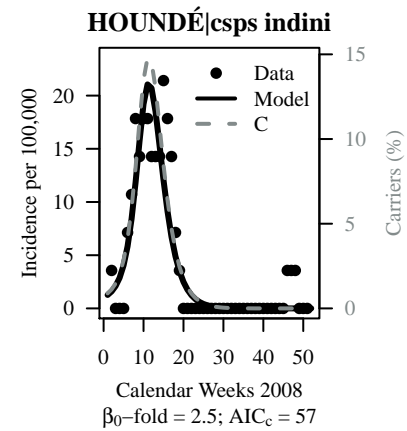
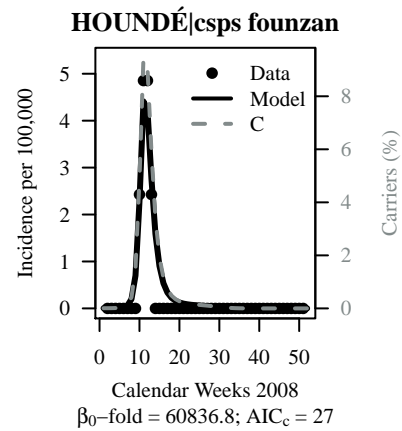
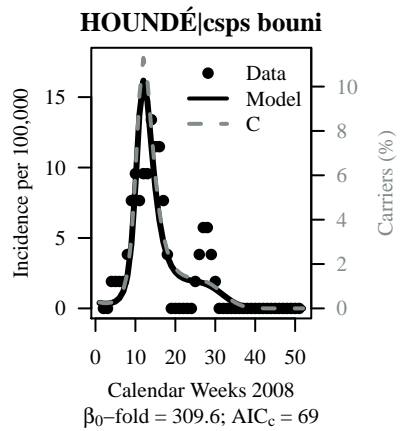
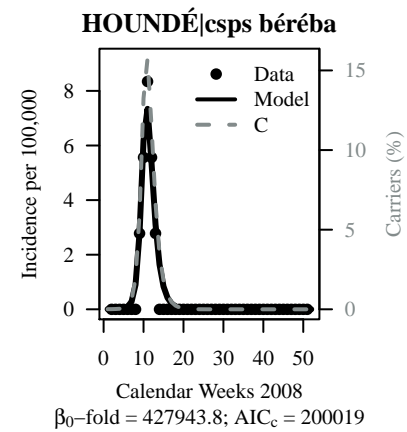
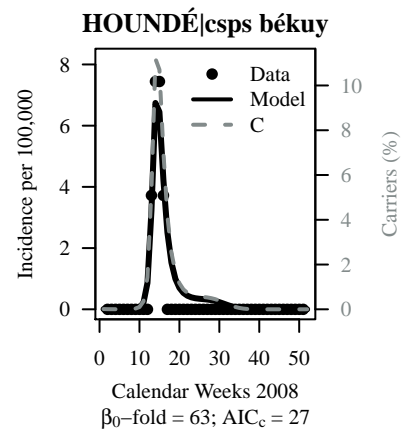
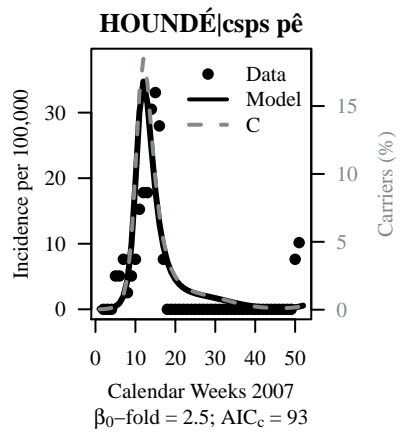


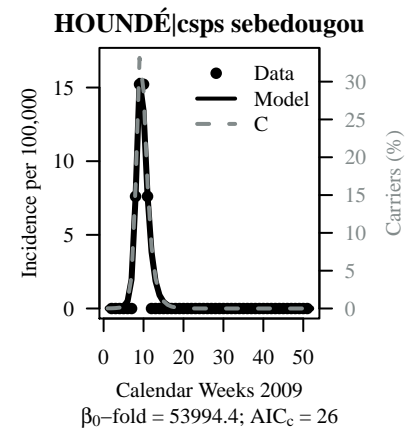
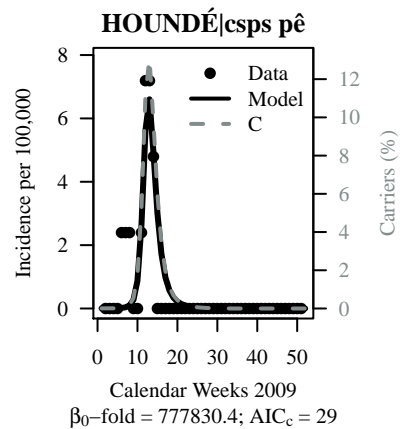
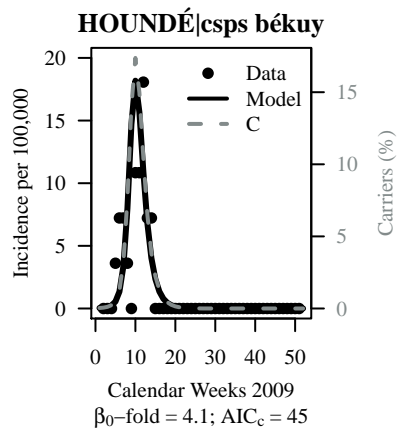
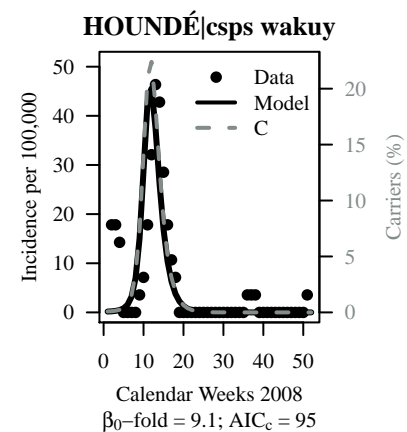
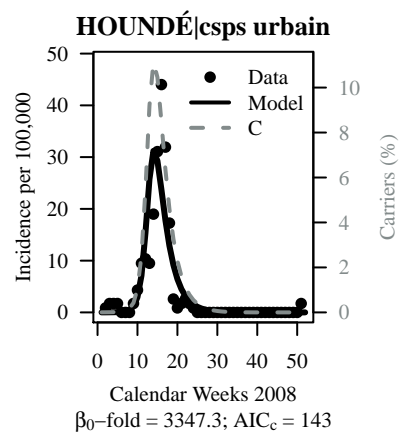
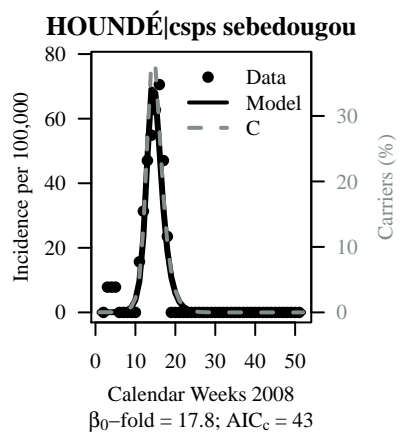
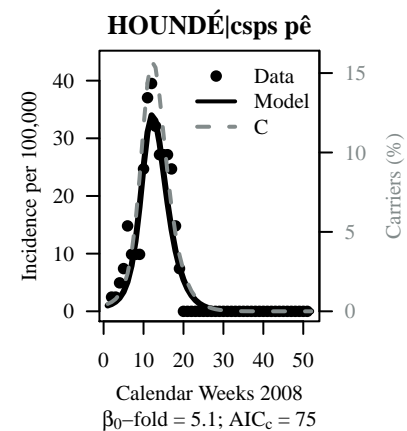
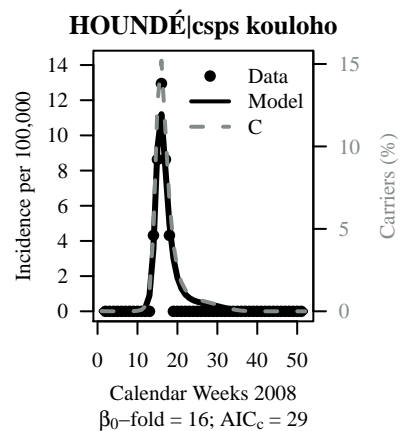
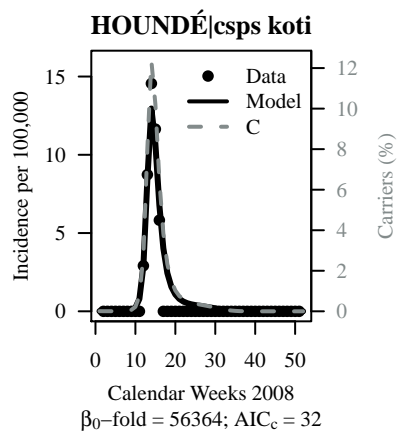
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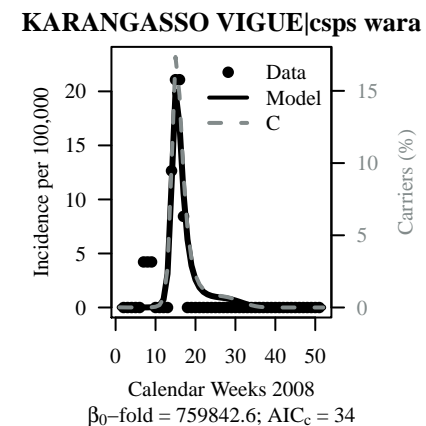
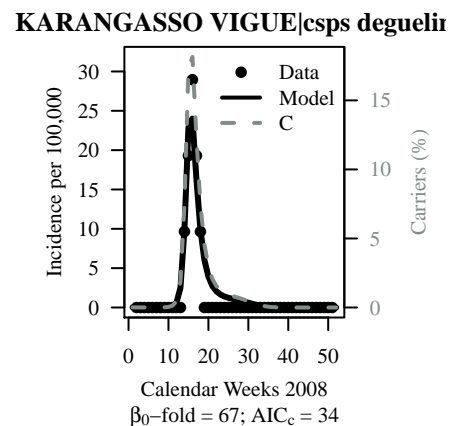
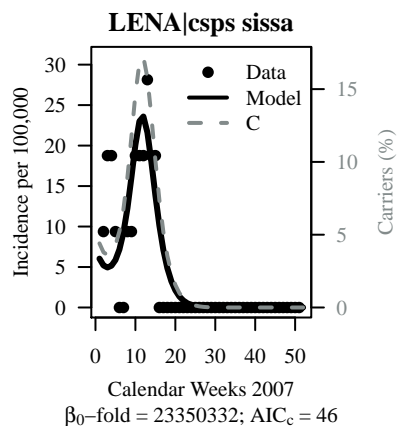
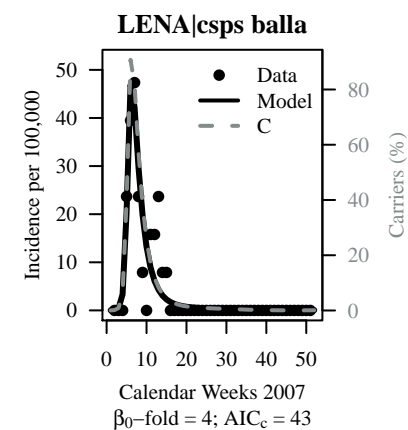
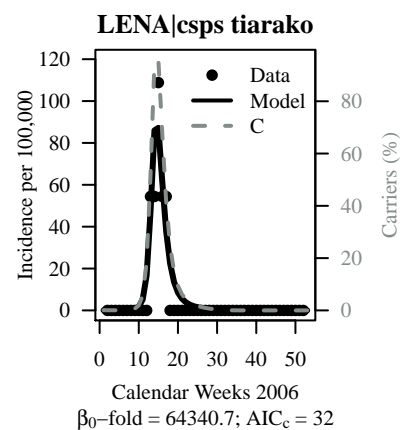
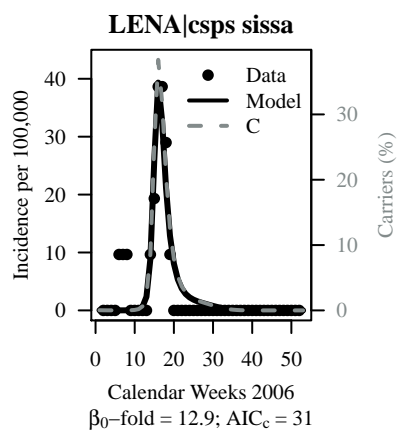
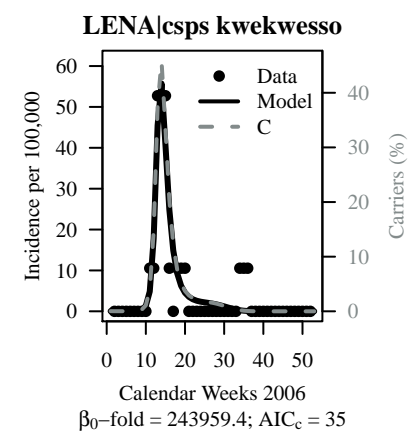
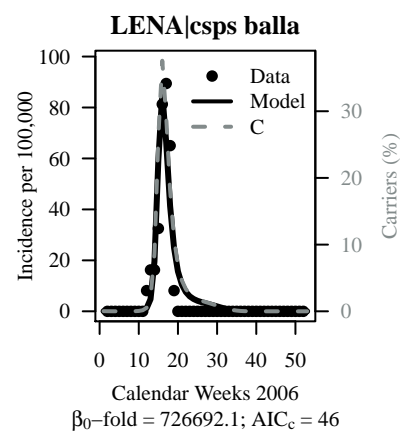
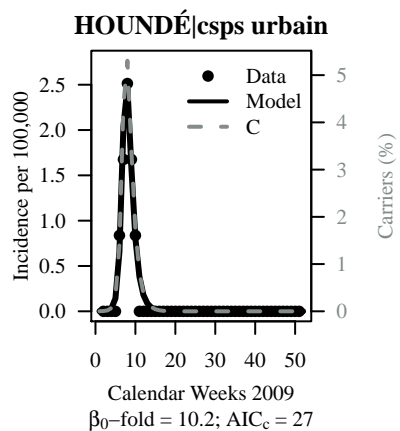




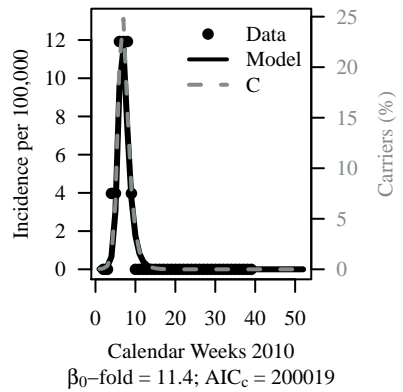








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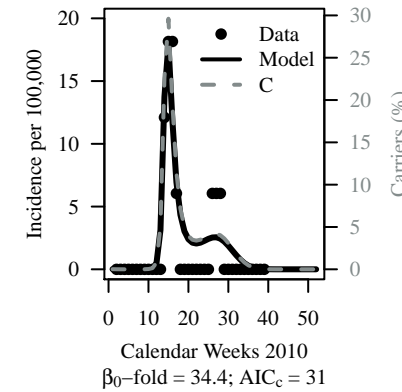
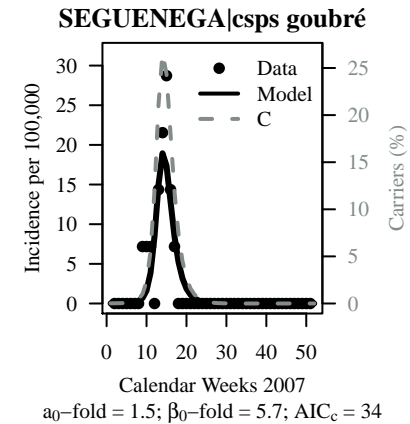
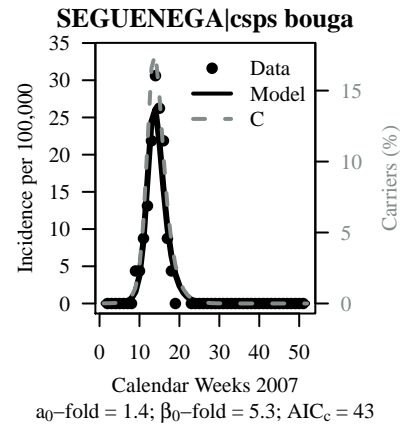
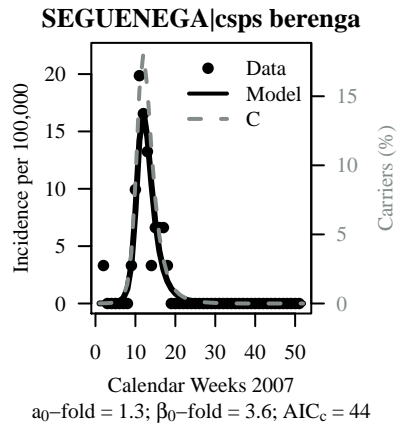
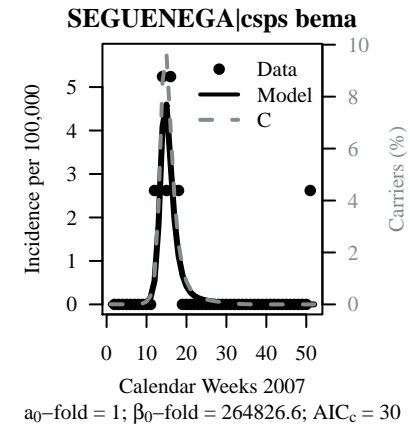
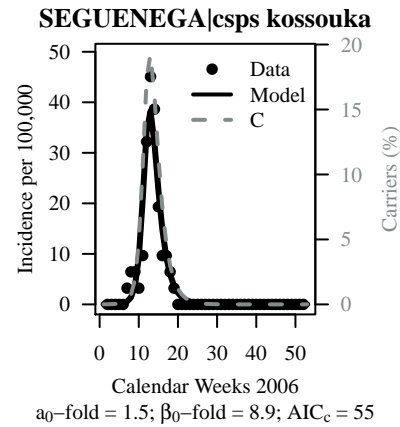
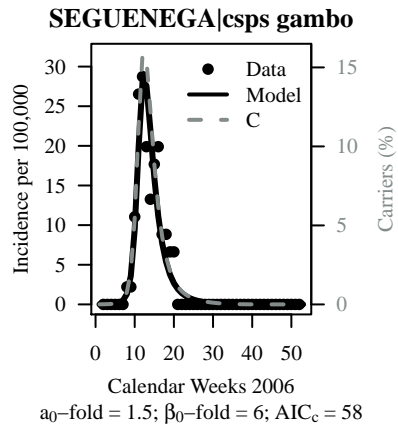
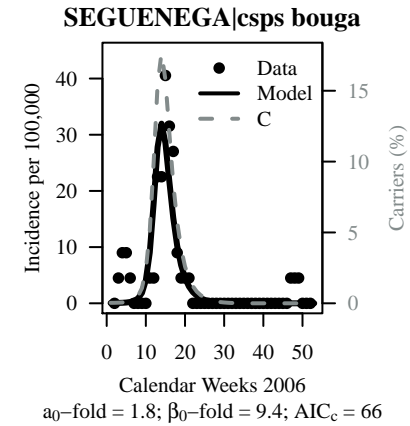
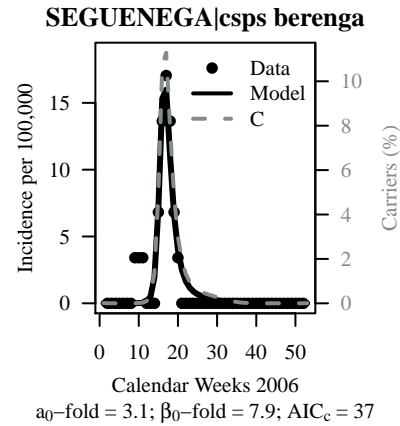
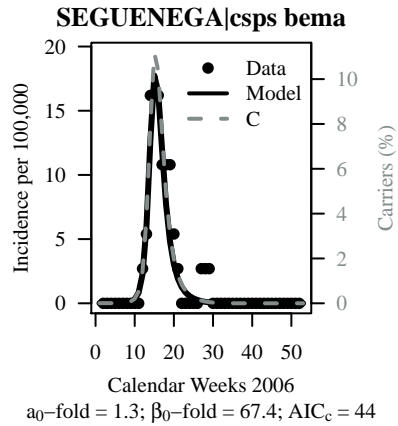
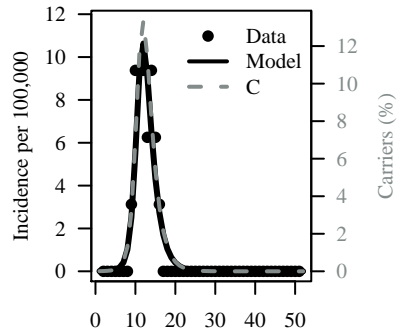
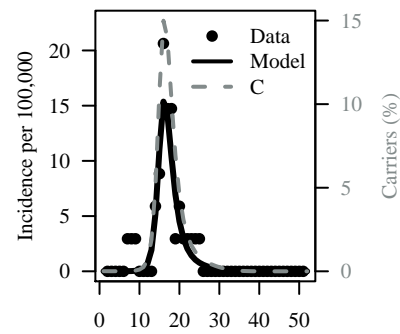


Figure 3. Model3—"inv-transm" trajectories matching plots of simulated and observed (weekly) data, for 64 health center-years with complete data, across four health districts of Burkina faso (2004–2010).

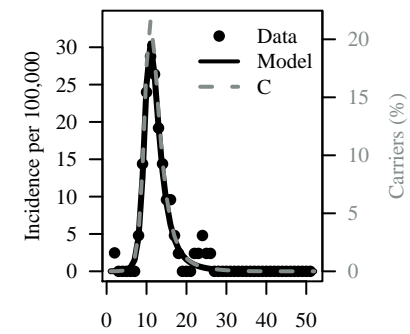


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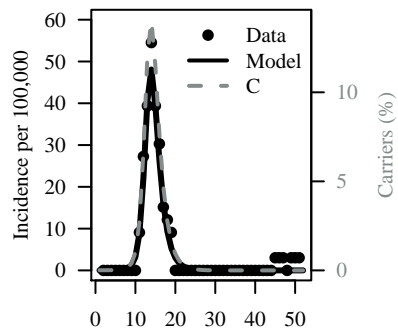
Calendar Weeks 2007
 a_0 -fold = 1.2; β_0 -fold = 3.5; $AIC_c = 38$

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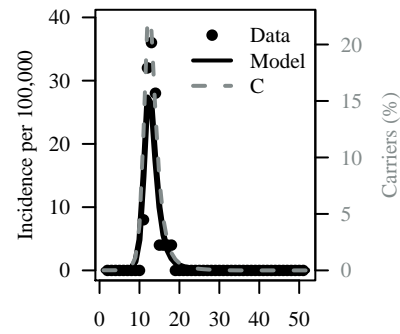
Calendar Weeks 2009
 a_0 -fold = 1.8; β_0 -fold = 6.7; $AIC_c = 42$

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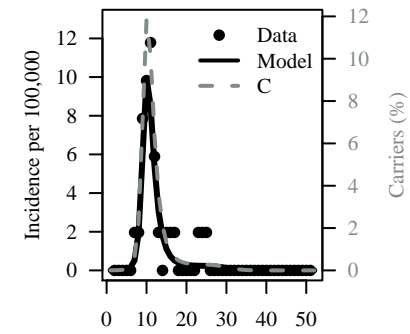
Calendar Weeks 2010
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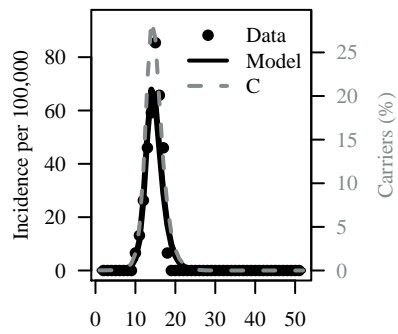
Calendar Weeks 2010
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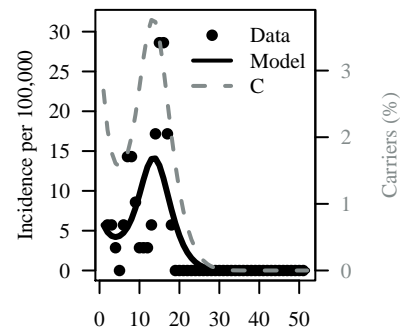
Calendar Weeks 2010
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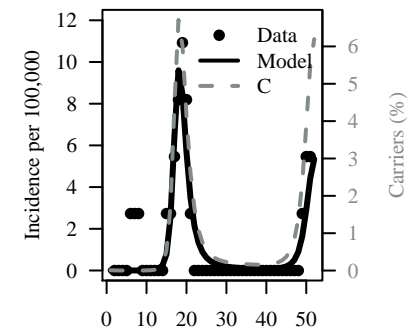
Calendar Weeks 2010
 a_0 -fold = 1; β_0 -fold = 13.6; $AIC_c = 36$

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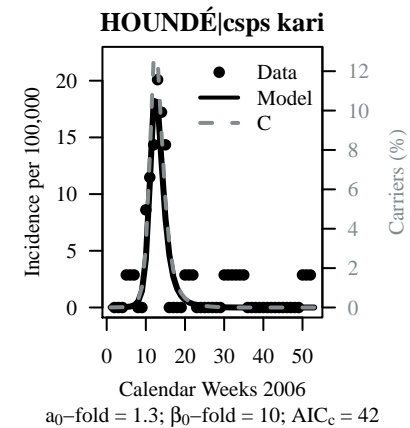
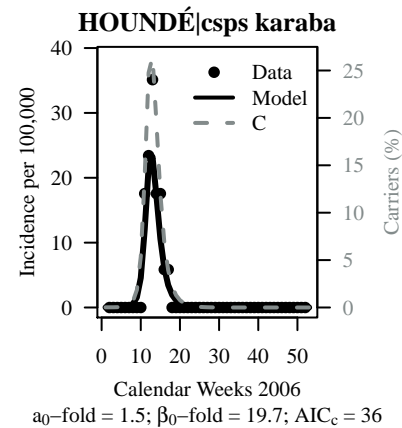
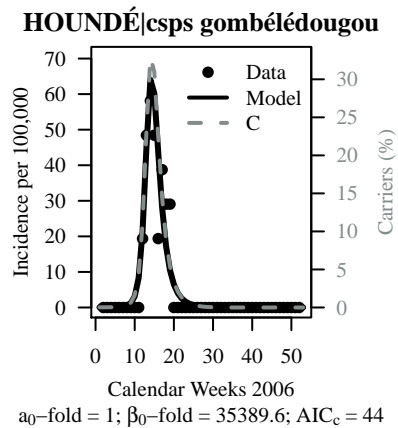
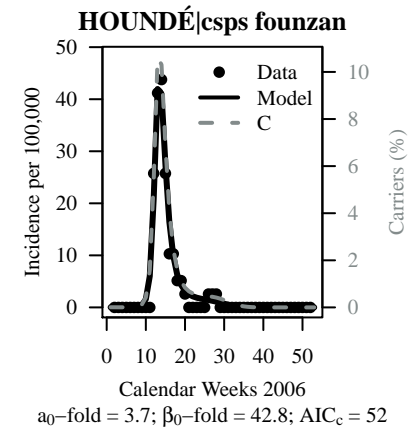
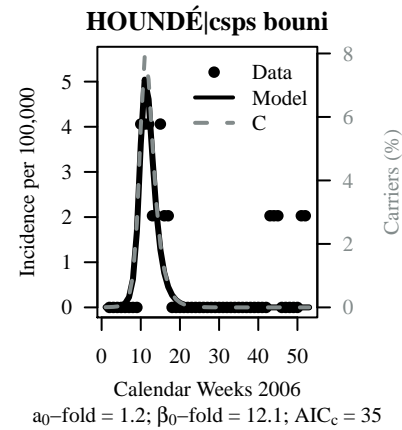
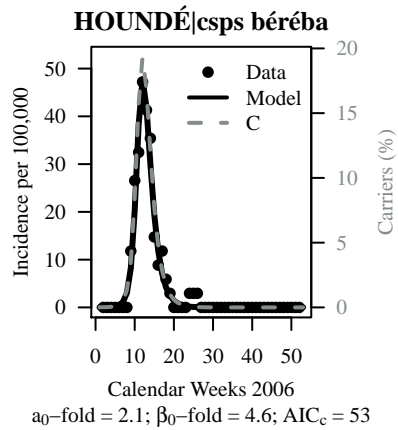
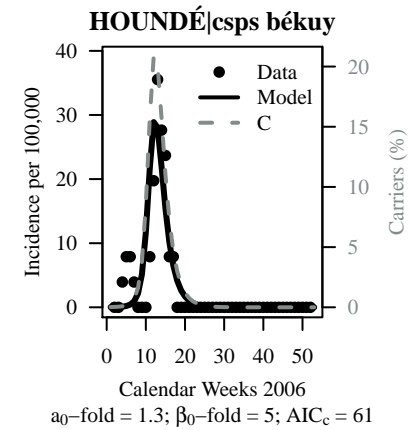
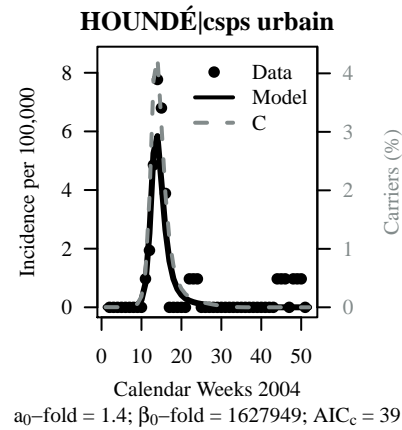
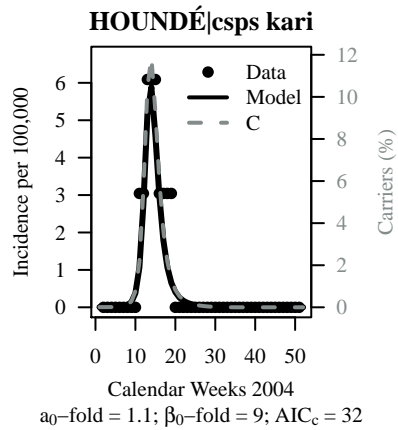
Calendar Weeks 2010
 a_0 -fold = 2.6; β_0 -fold = 124560.3; $AIC_c = 47$

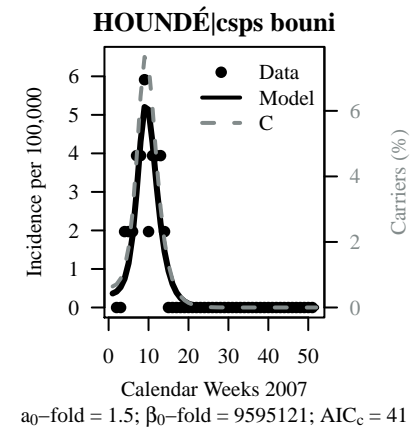
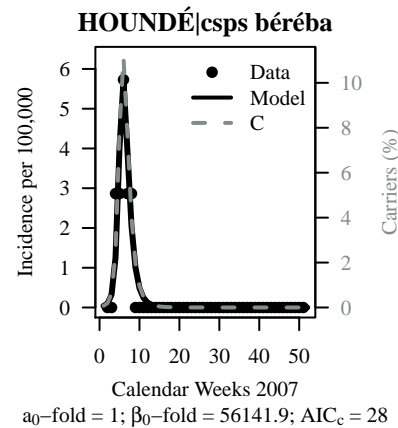
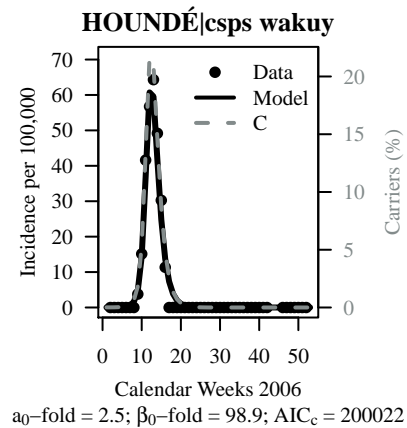
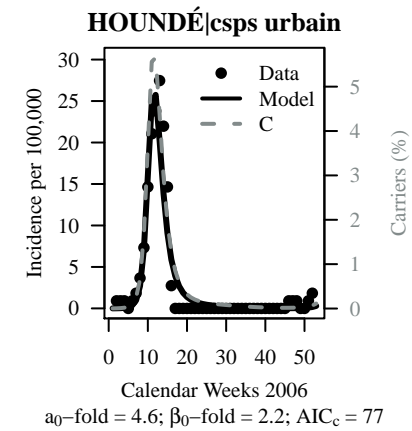
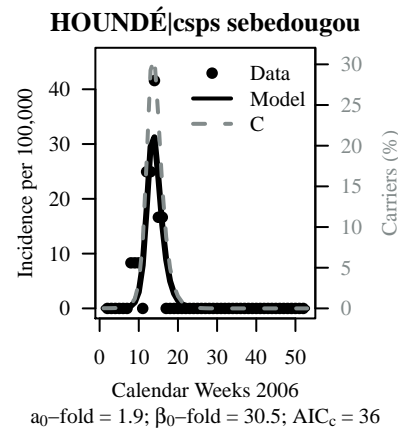
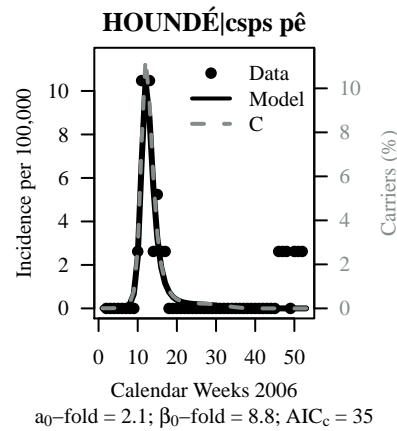
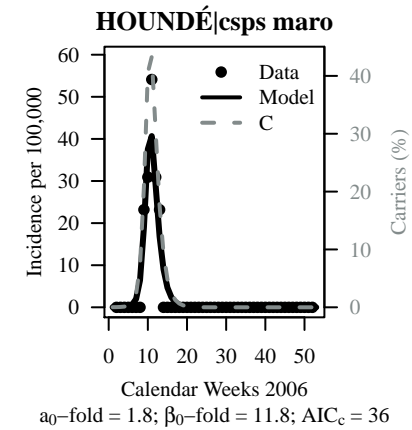
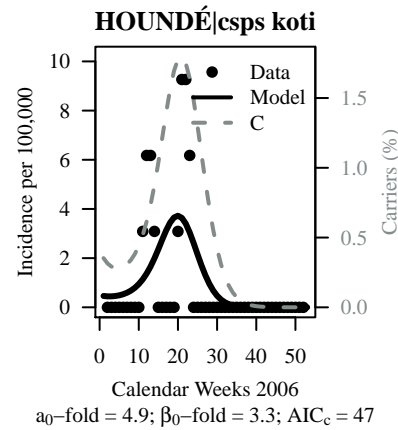
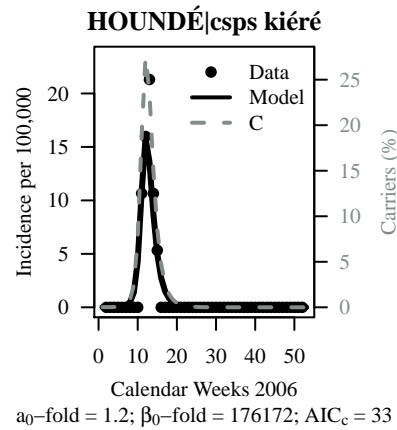
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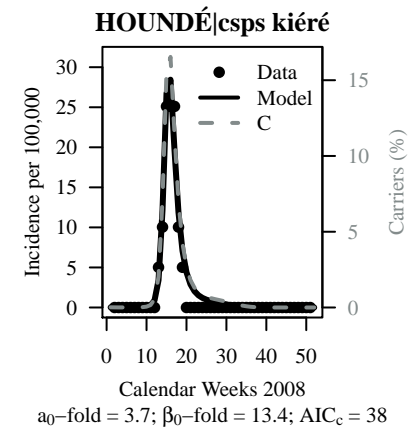
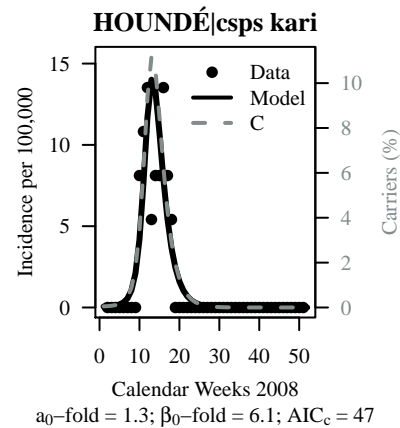
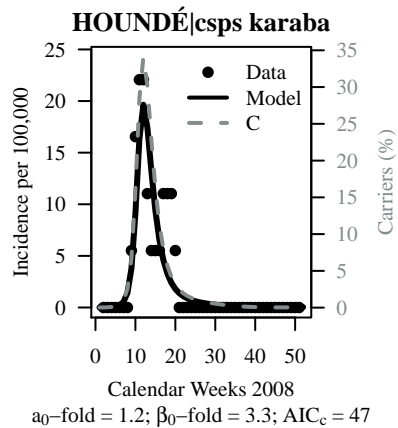
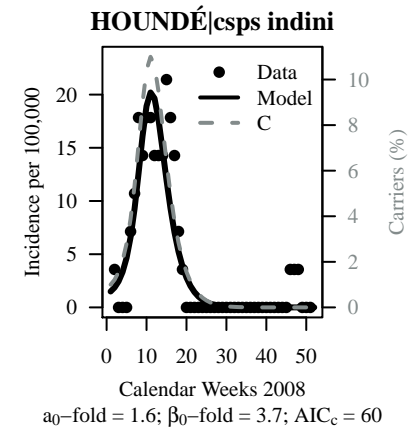
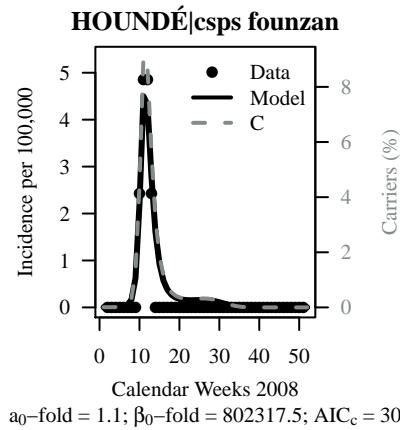
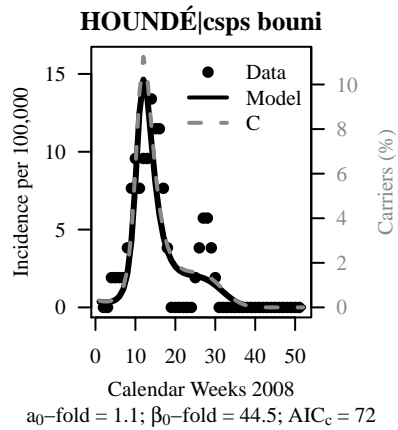
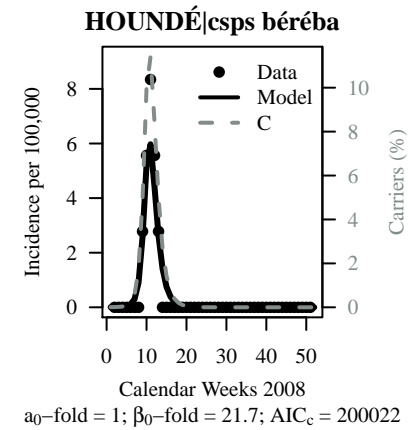
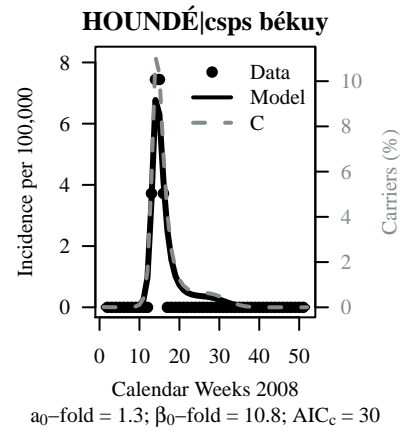
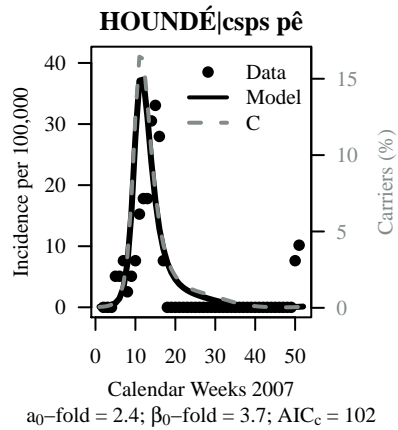
Calendar Weeks 2010
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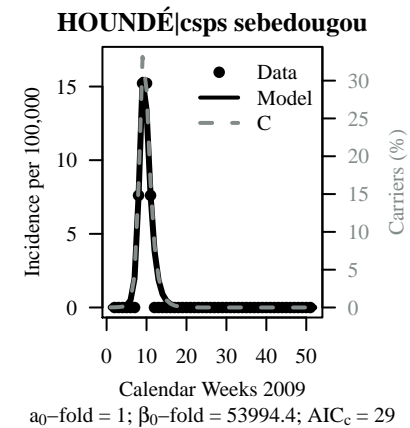
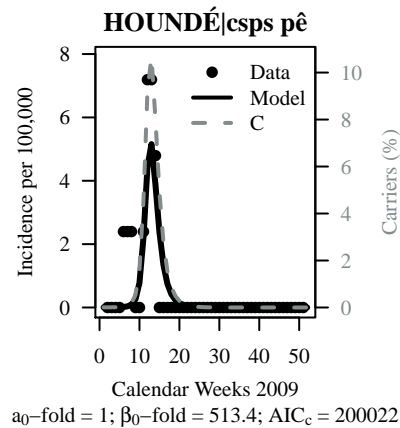
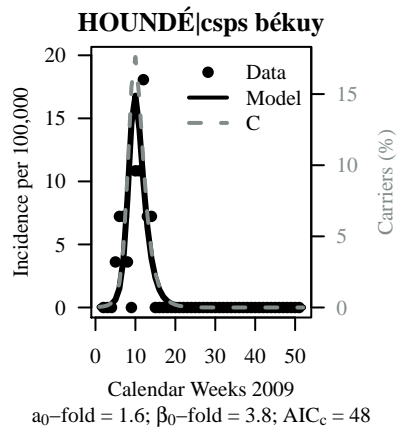
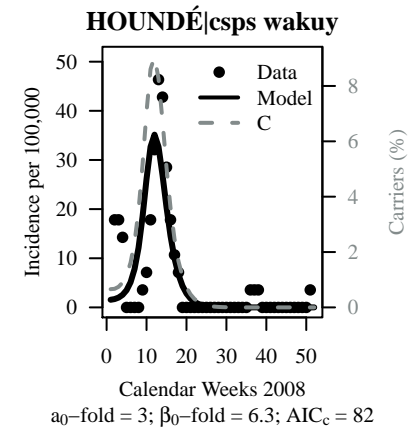
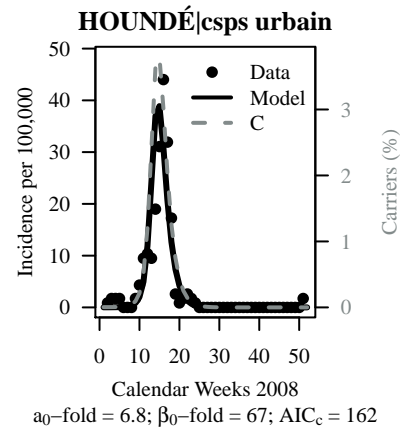
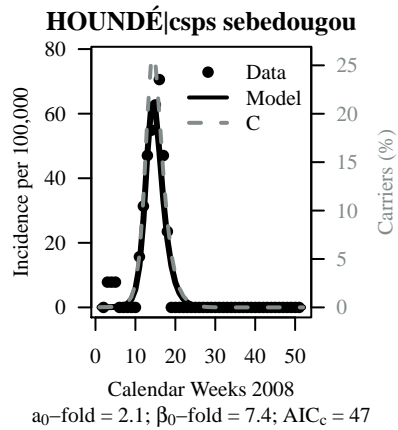
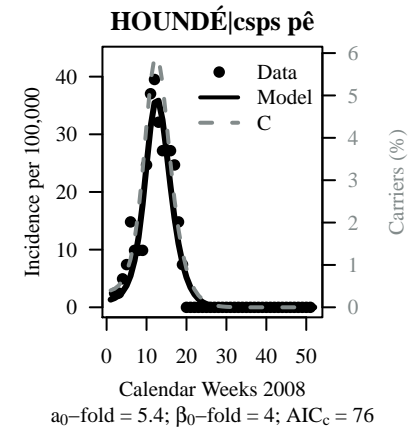
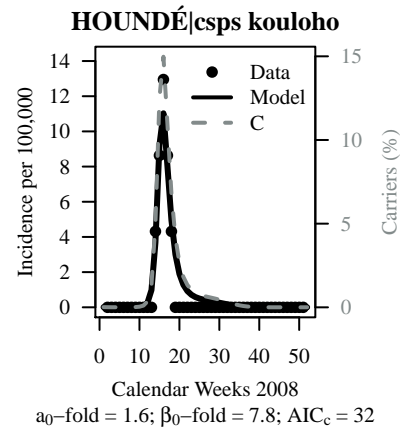
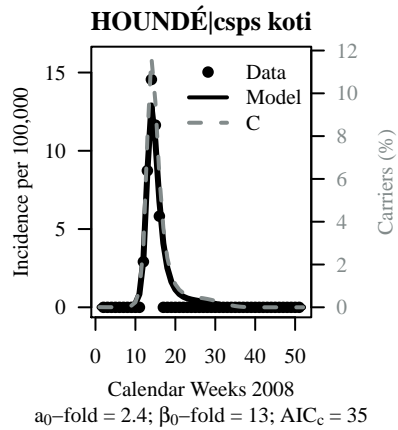
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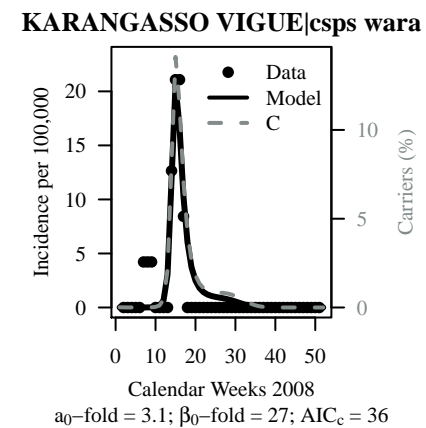
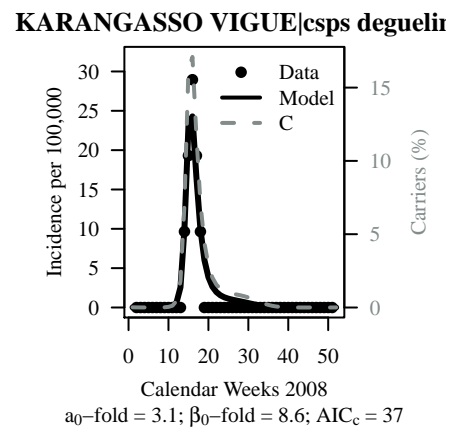
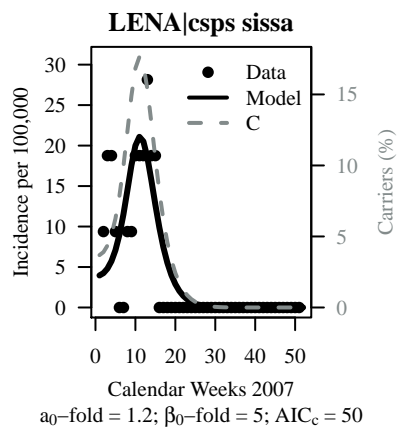
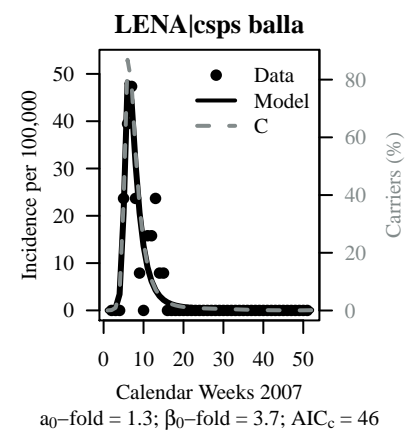
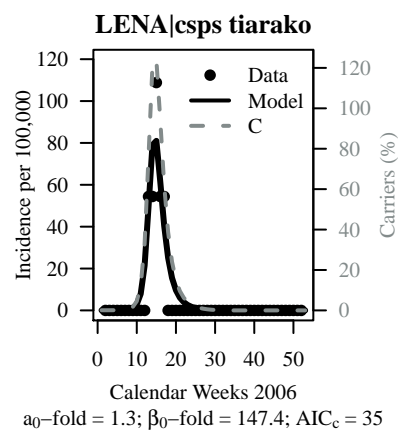
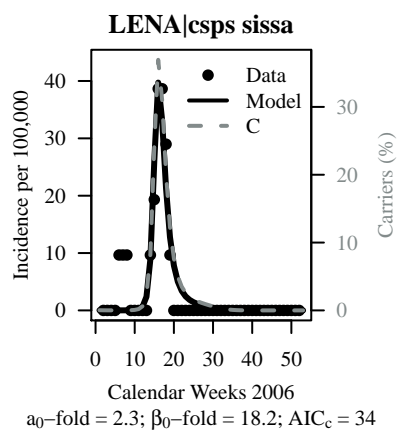
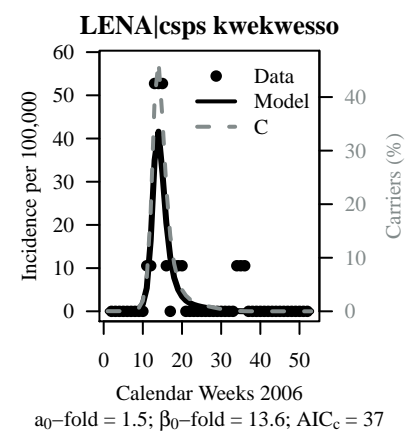
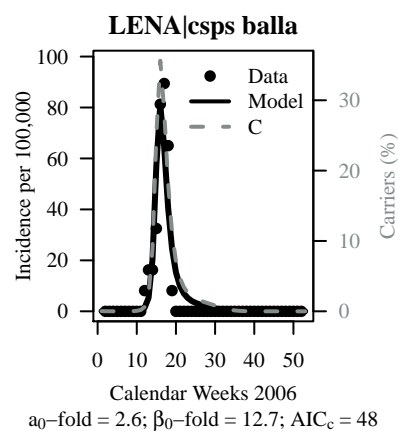
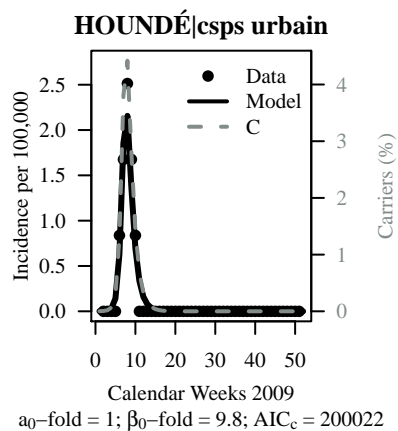
Calendar Weeks 2004
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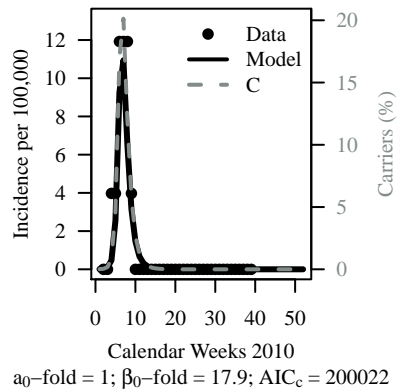








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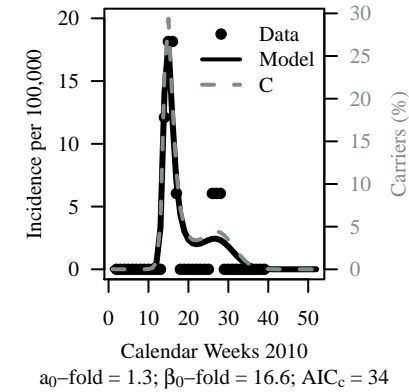
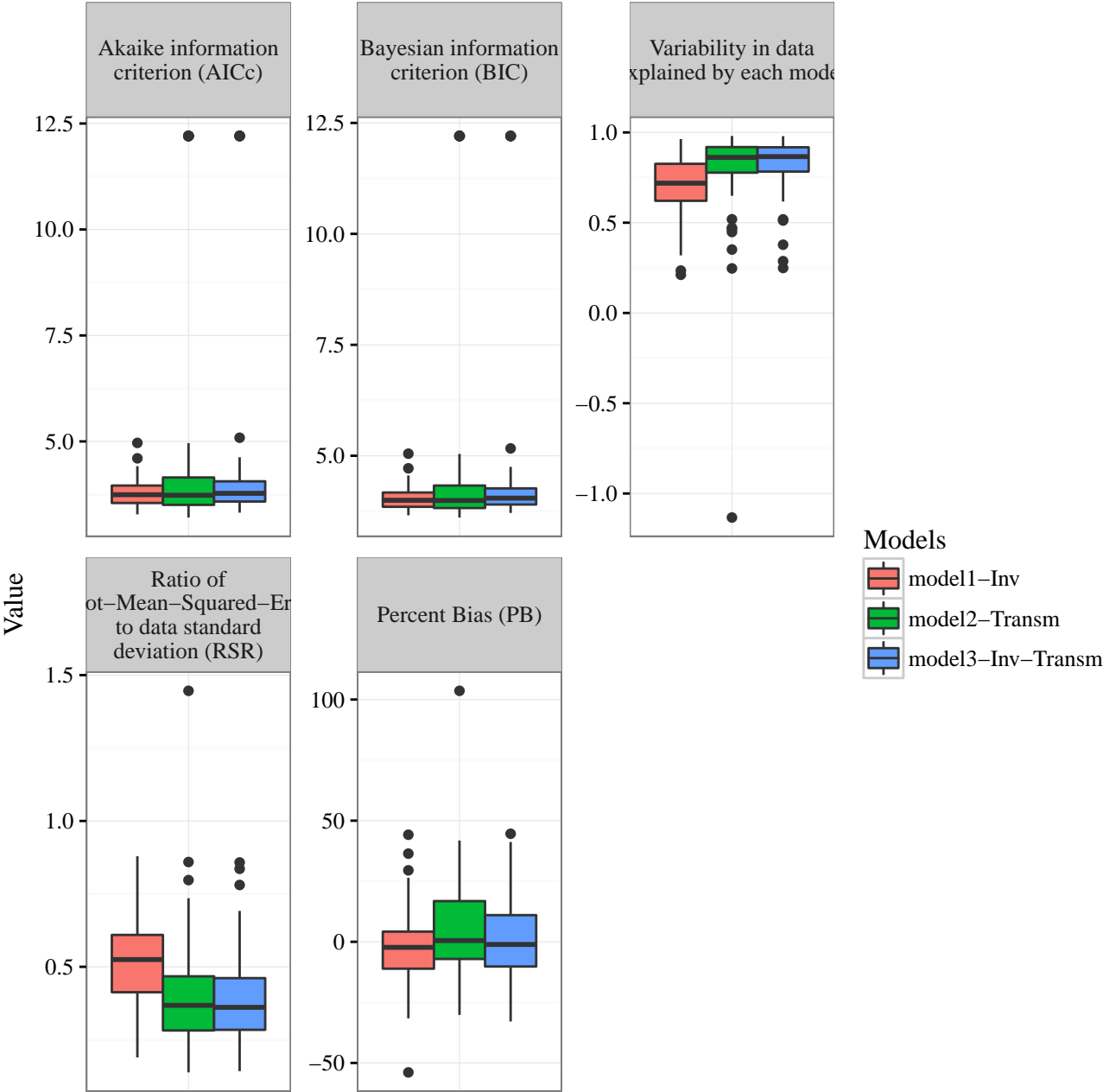


Figure 4. Distribution of parameters estimates and models performance stats, for 64 health center–years with complete data, across four health districts of Burkina faso (2004–2010).

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



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

