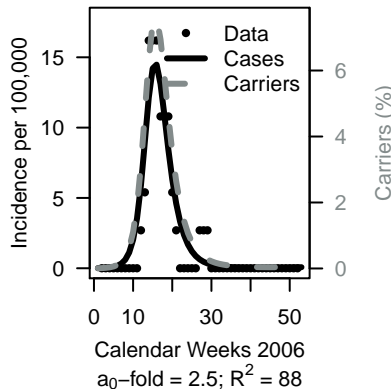
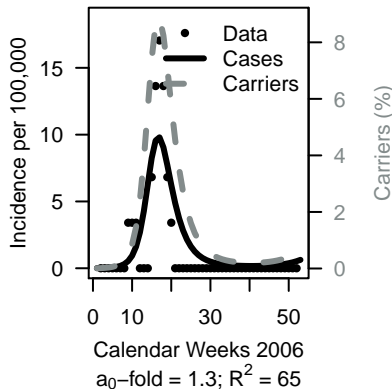
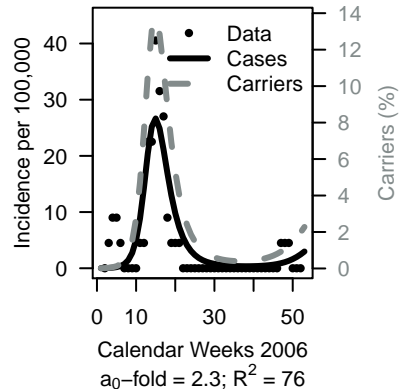
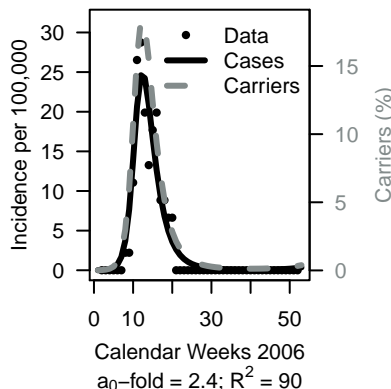
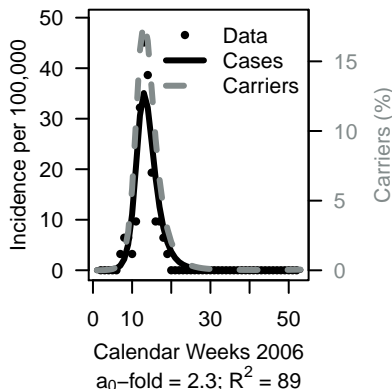
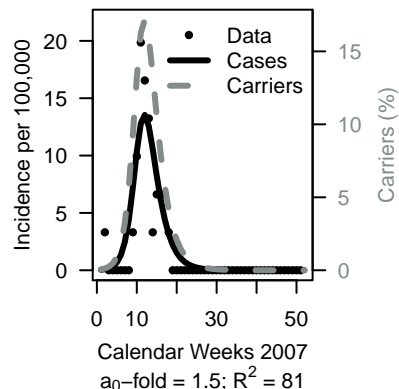
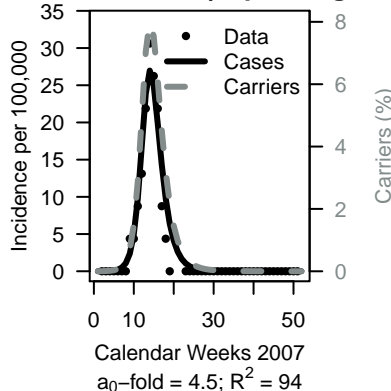
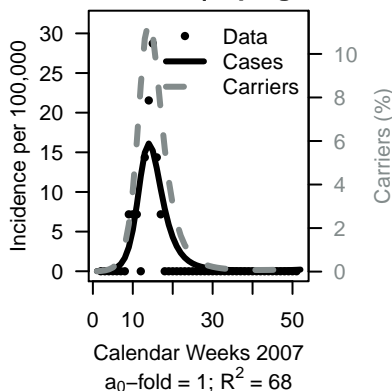
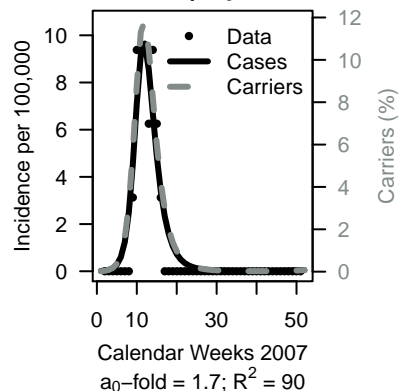
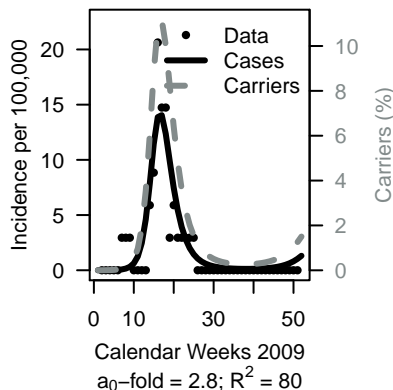
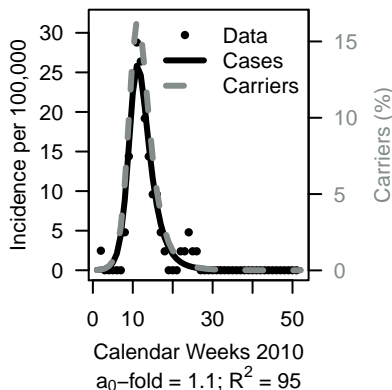
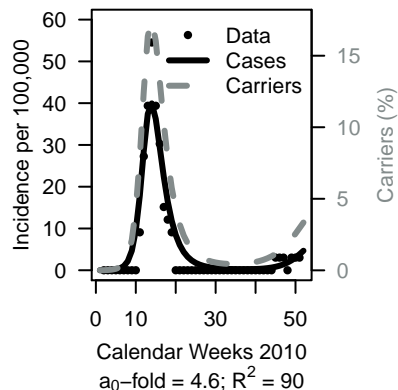
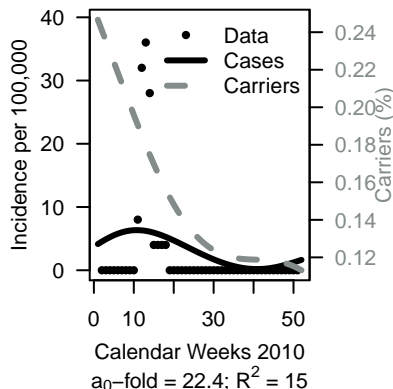
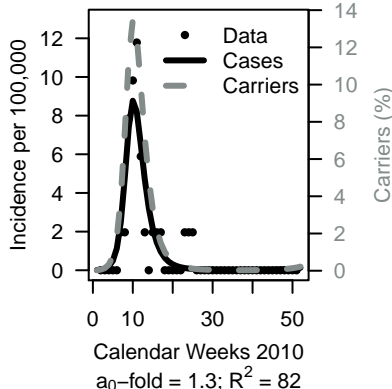
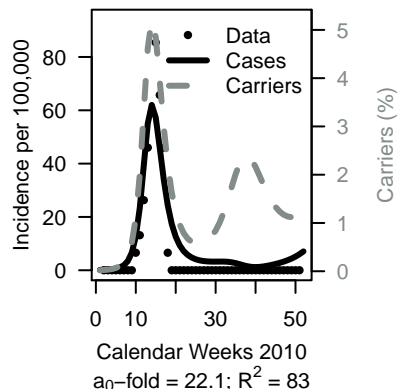
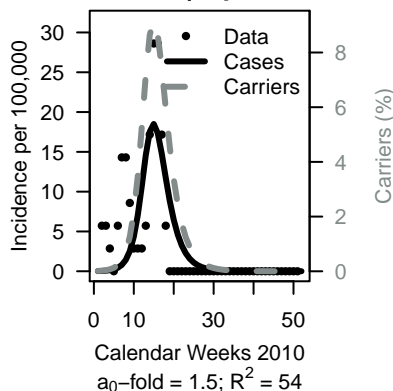
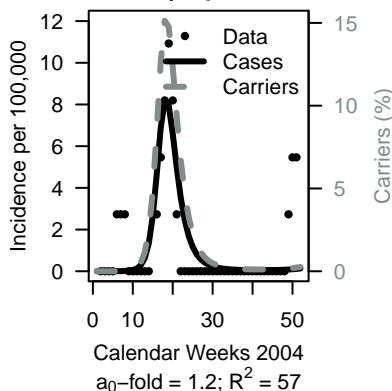
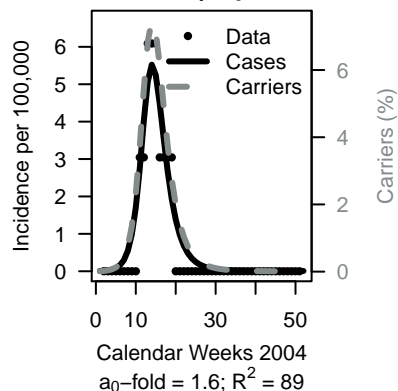
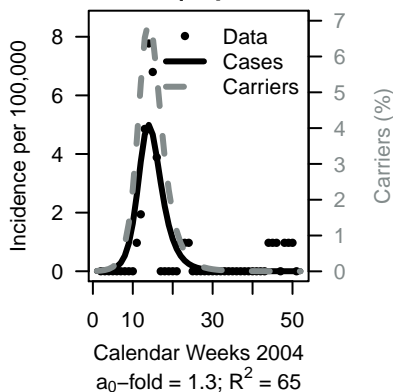
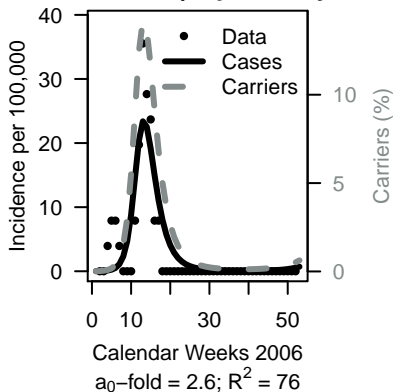
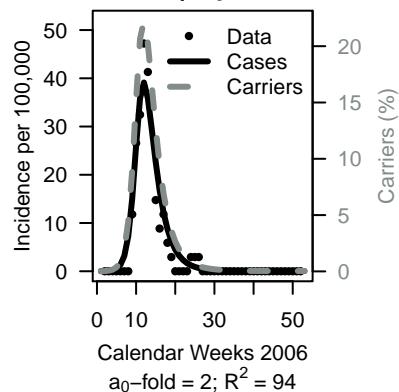
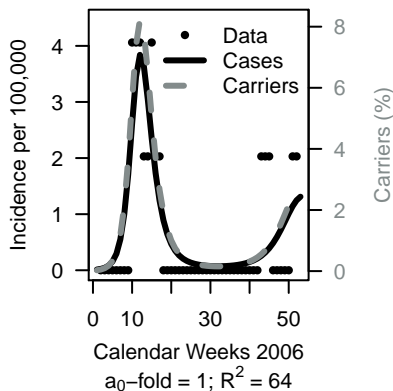
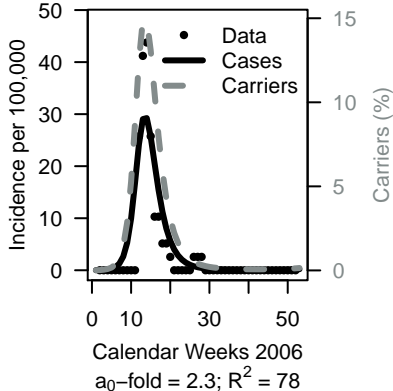
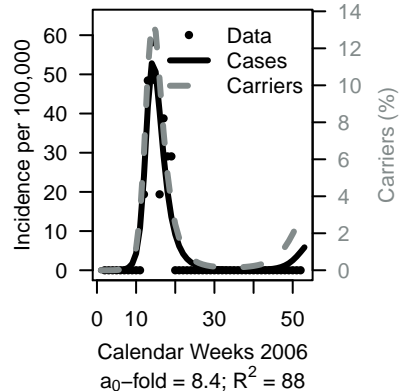
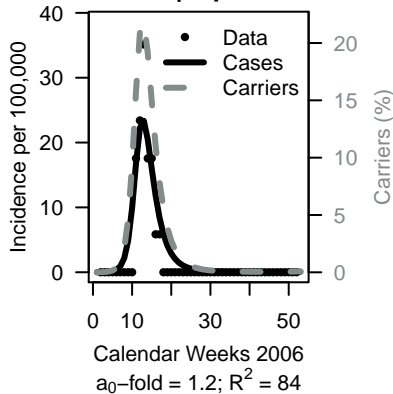
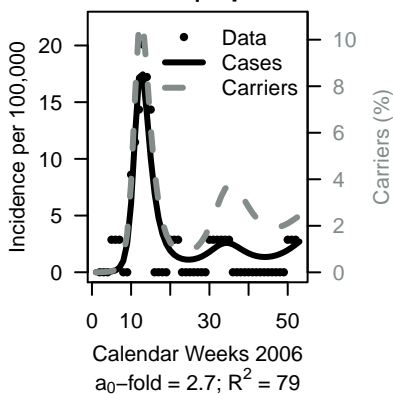
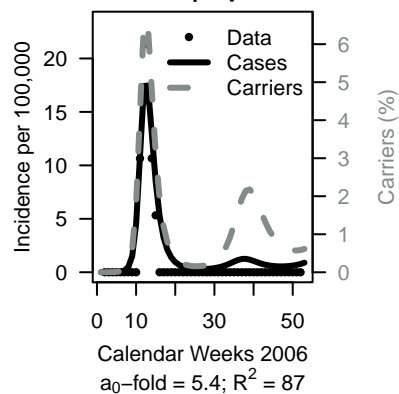


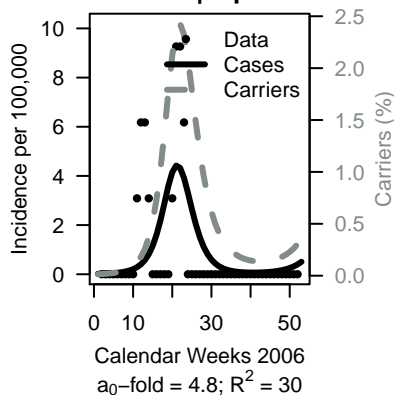
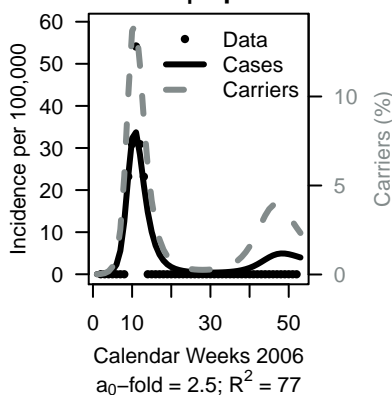
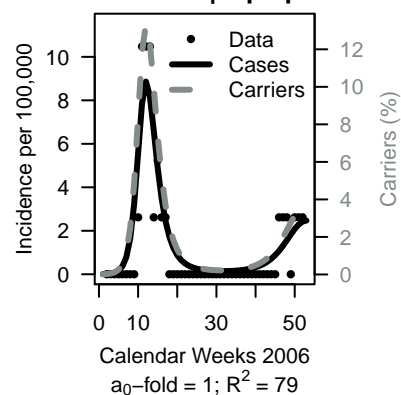
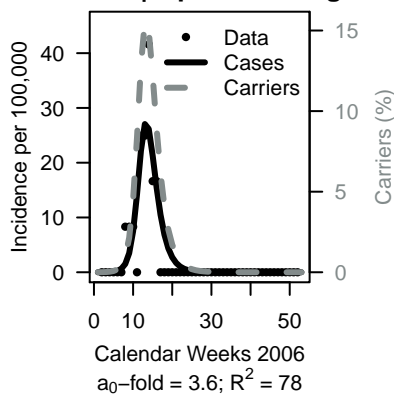
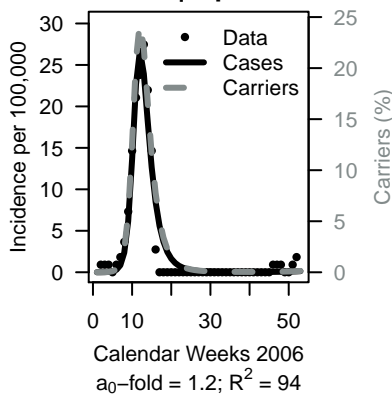
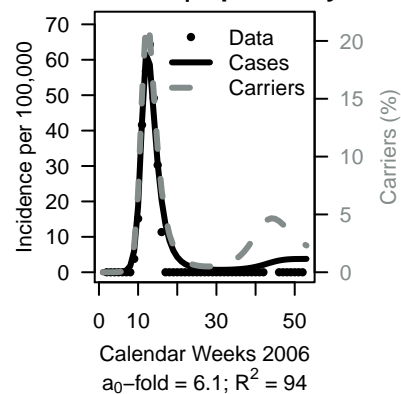
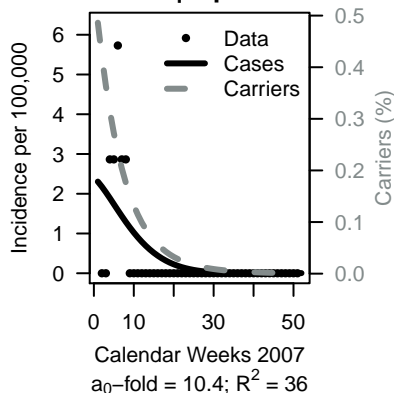
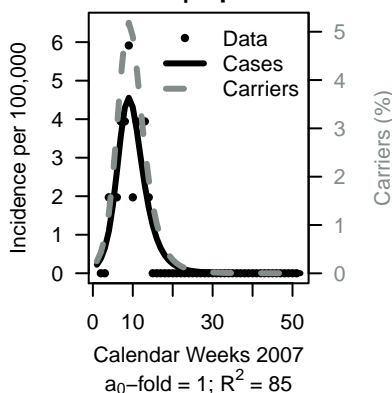
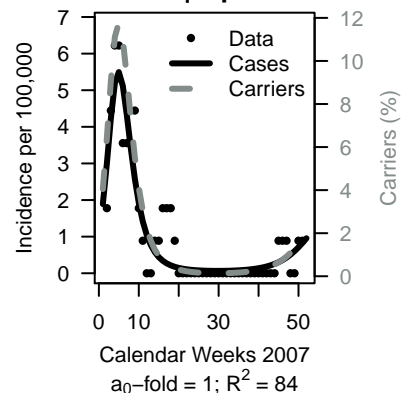
Appendix 3.

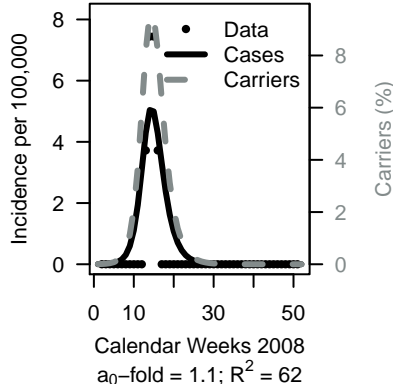
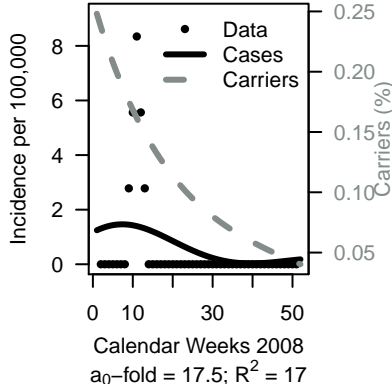
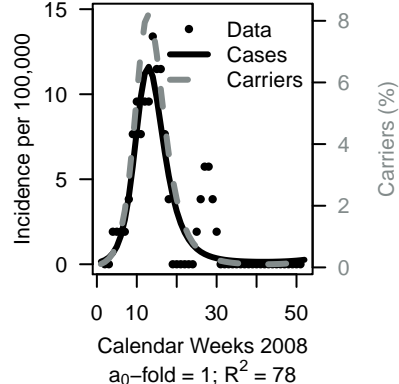
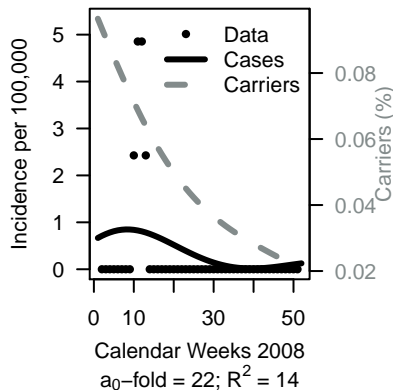
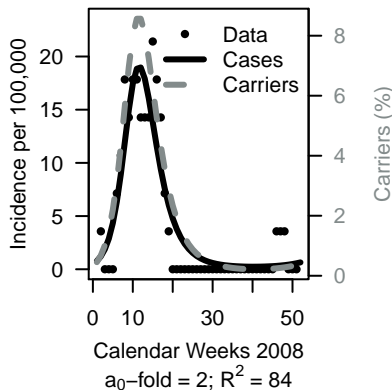
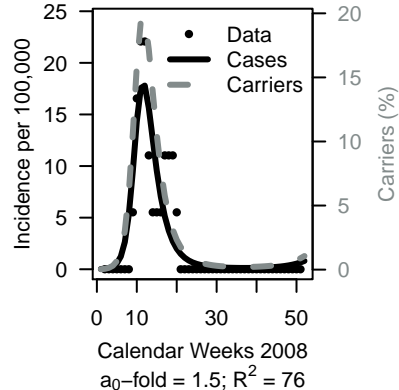
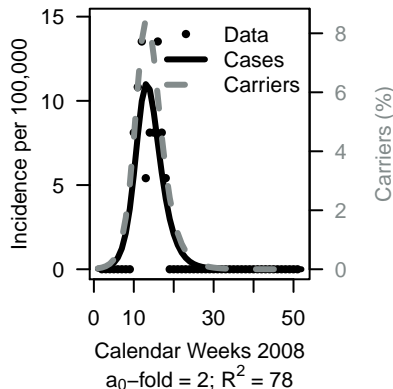
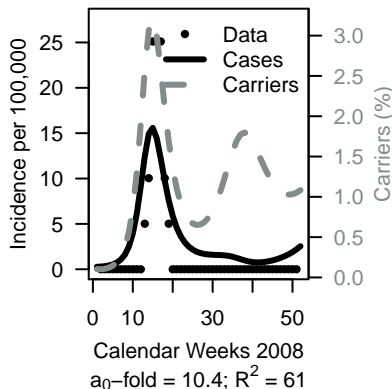
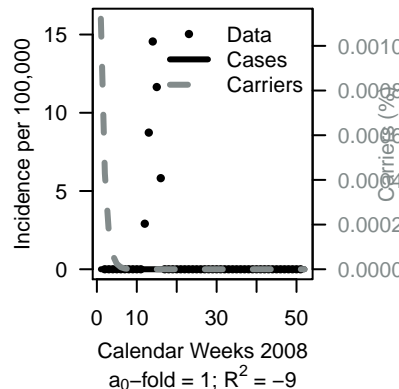
Figure 1. Model1—"inv" trajectories matching plots of simulated and observed (weekly) data, for 64 health center–years with complete data, across four health districts of Burkina faso (2004–2010).

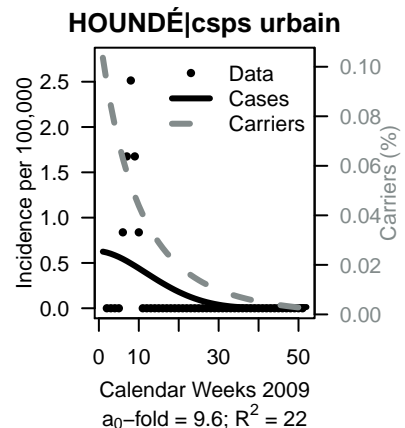
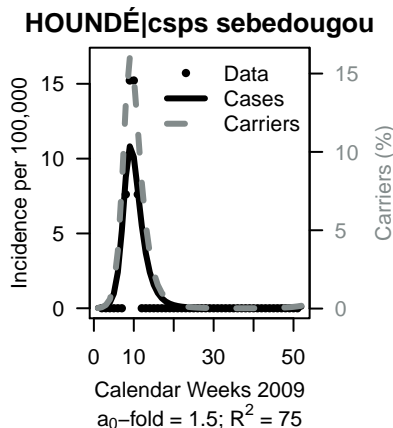
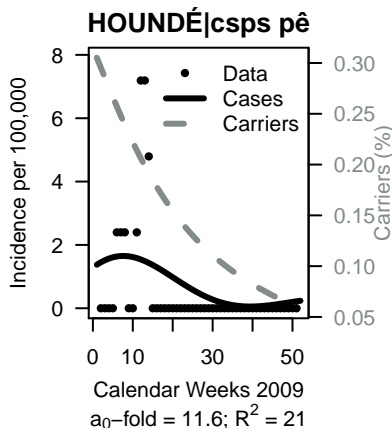
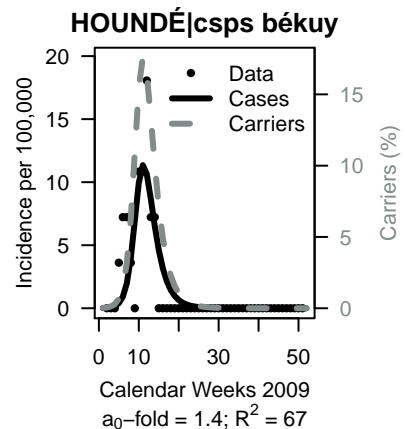
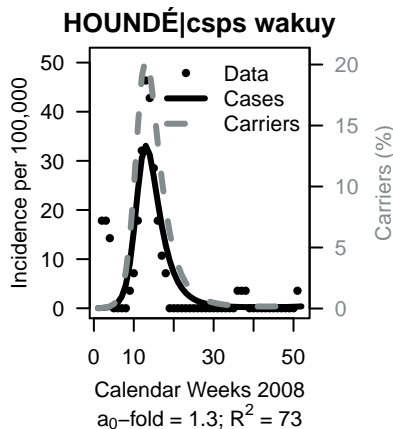
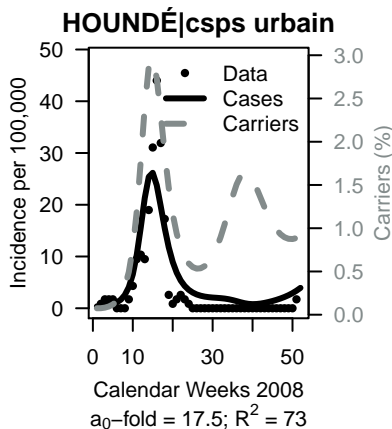
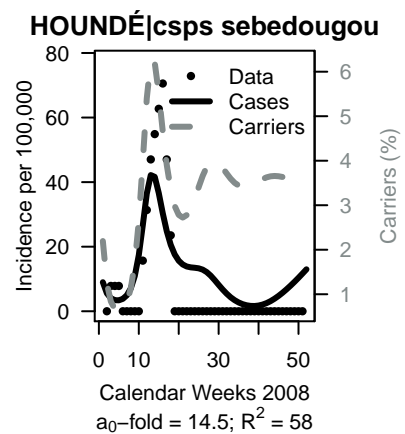
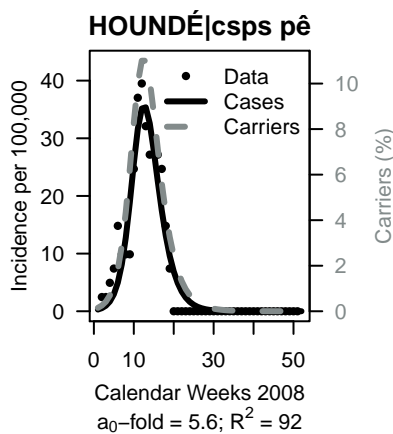
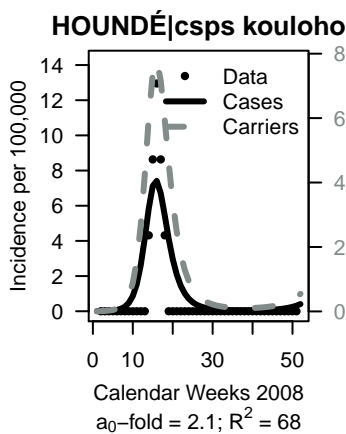
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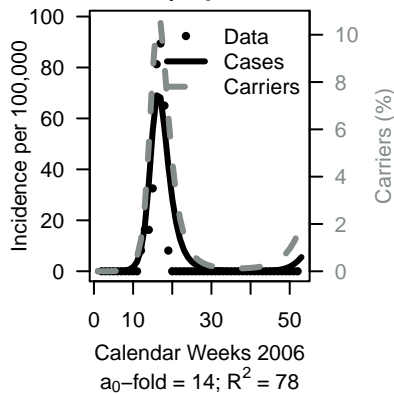
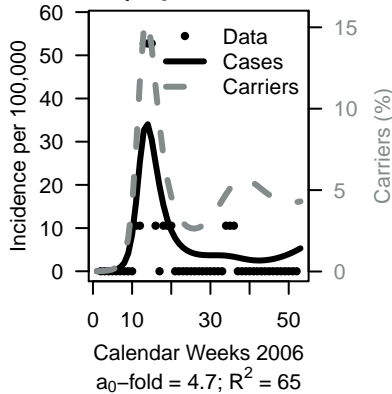
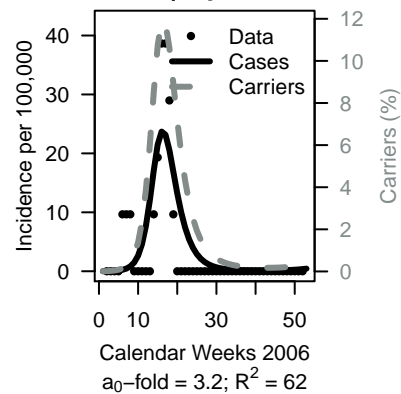
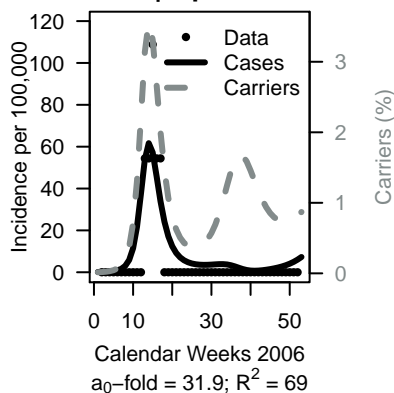
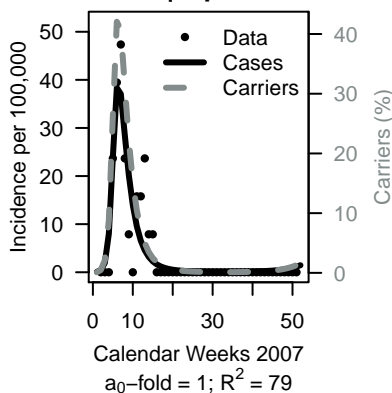
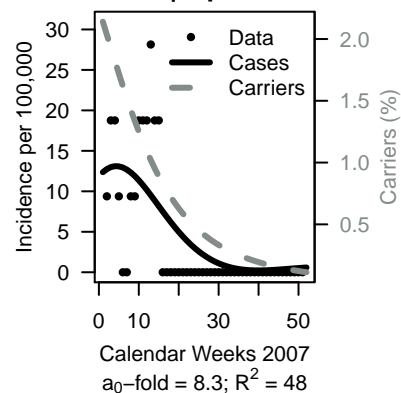
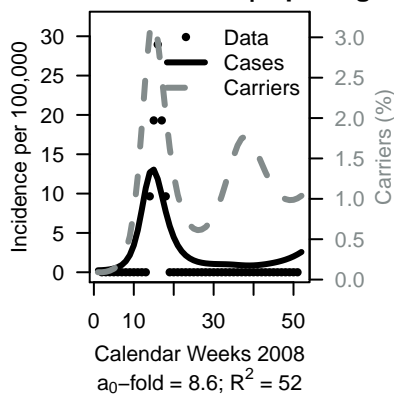
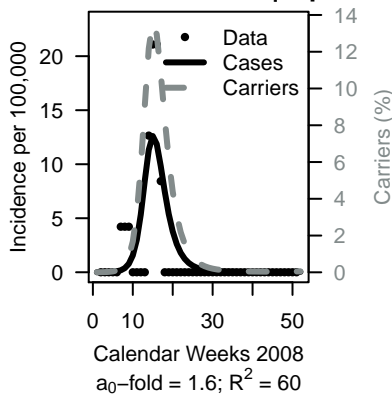
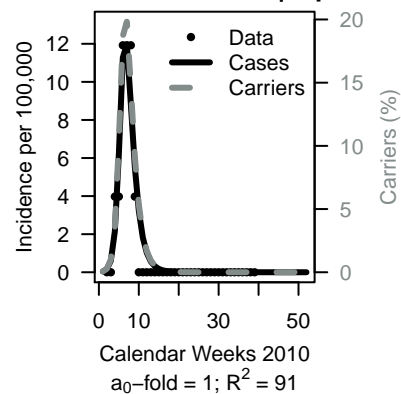
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HOUNDÉ|csps urbain**HOUNDÉ|csps békuy****HOUNDÉ|csps béréba****HOUNDÉ|csps bouni****HOUNDÉ|csps founzan****HOUNDÉ|csps gombéléDougou****HOUNDÉ|csps karaba****HOUNDÉ|csps kari****HOUNDÉ|csps kiéré**

HOUNDÉ|csps koti**HOUNDÉ|csps maro****HOUNDÉ|csps pé****HOUNDÉ|csps sebedougou****HOUNDÉ|csps urbain****HOUNDÉ|csps wakuy****HOUNDÉ|csps béréba****HOUNDÉ|csps bouni****HOUNDÉ|csps urbain**

HOUNDÉ|csps békuy**HOUNDÉ|csps béréba****HOUNDÉ|csps bouni****HOUNDÉ|csps founzan****HOUNDÉ|csps indini****HOUNDÉ|csps karaba****HOUNDÉ|csps kari****HOUNDÉ|csps kiéré****HOUNDÉ|csps koti**



LENA|cspcs balla**LENA|cspcs kwekwesso****LENA|cspcs sissa****LENA|cspcs tiarako****LENA|cspcs balla****LENA|cspcs sissa****KARANGASSO VIGUE|cspcs deguel****KARANGASSO VIGUE|cspcs wara****KARANGASSO VIGUE|cspcs wara**

KARANGASSO VIGUE|dispe dioss

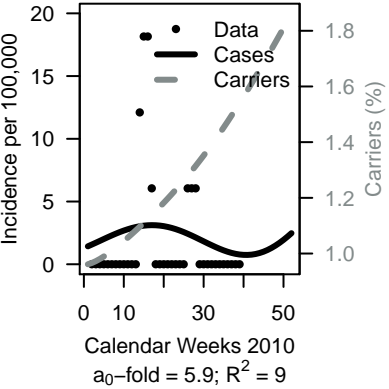
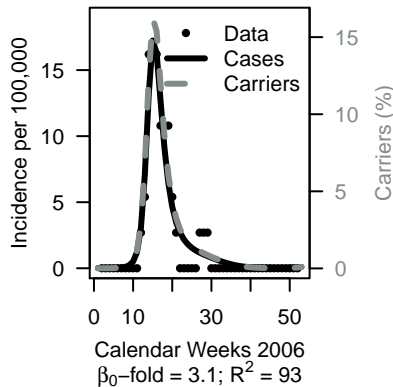
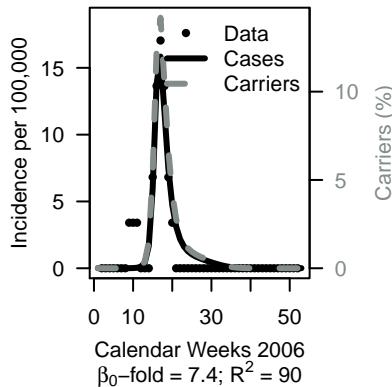
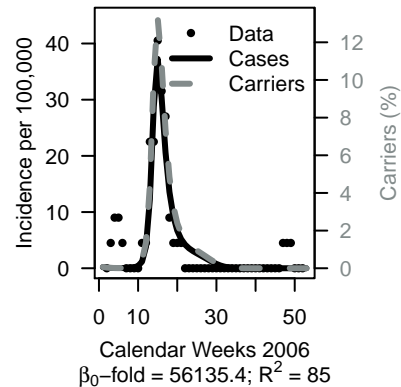
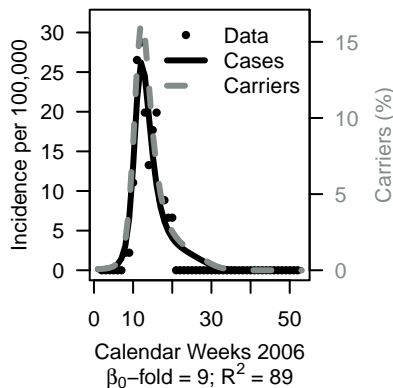
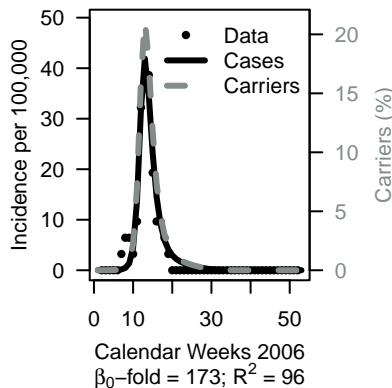
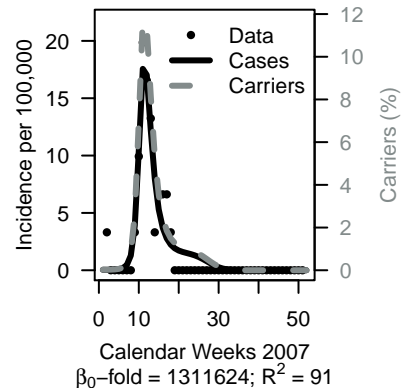
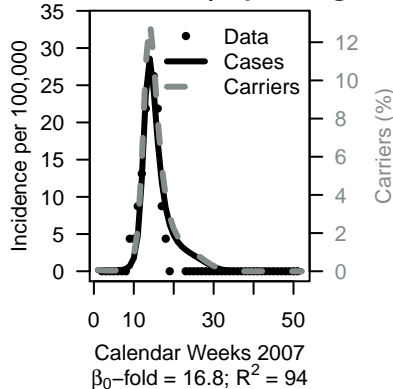
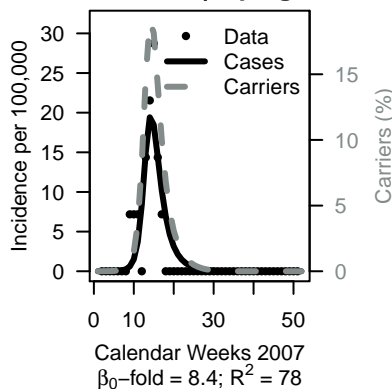
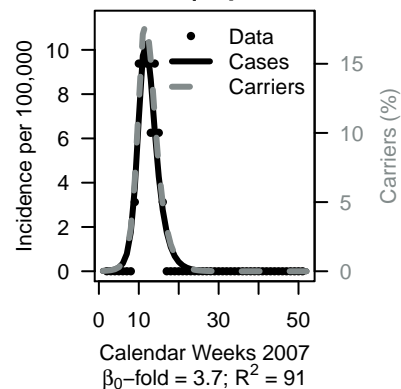
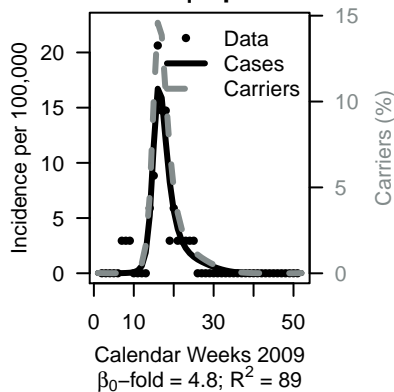
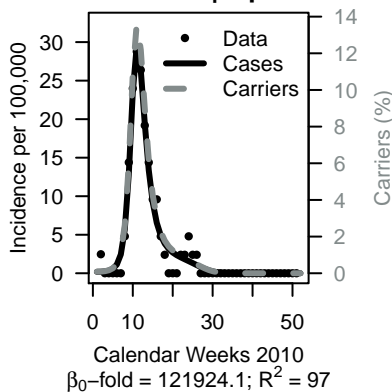
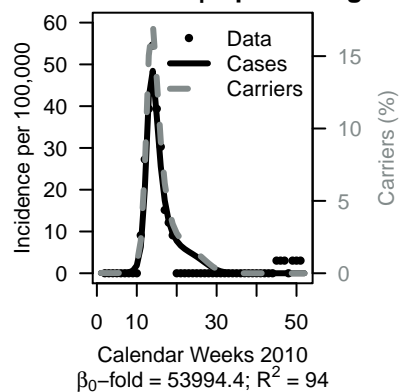
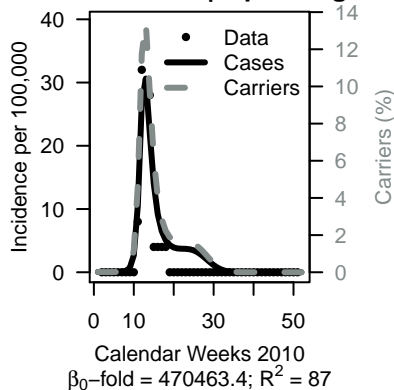
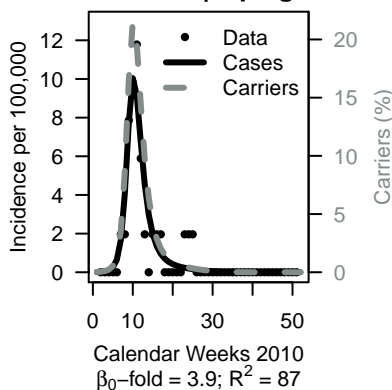
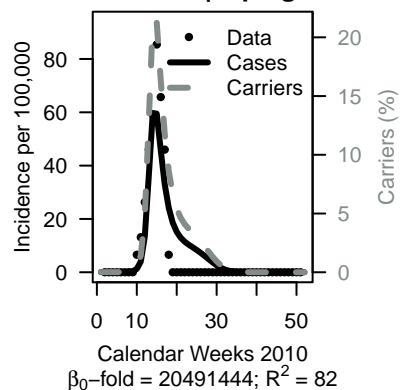
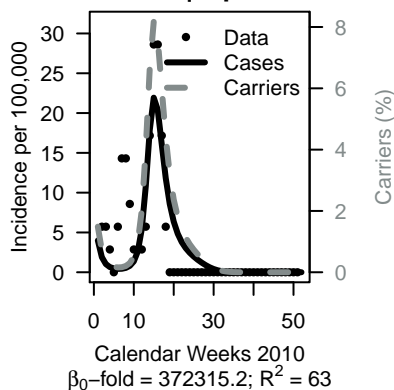
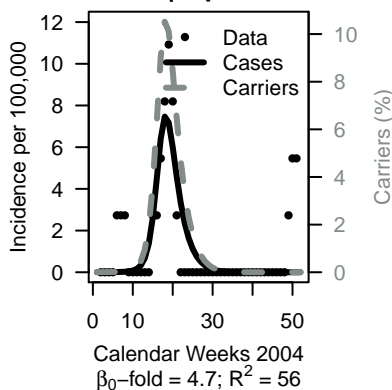
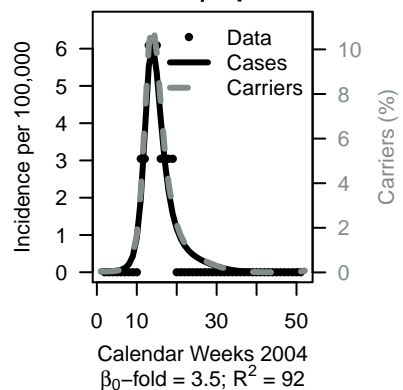
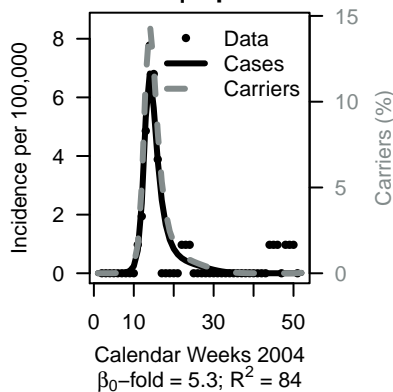
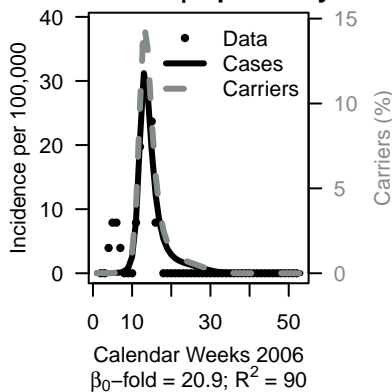
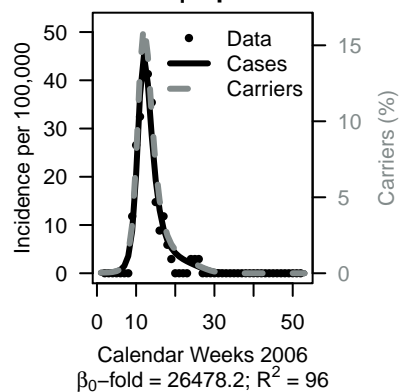
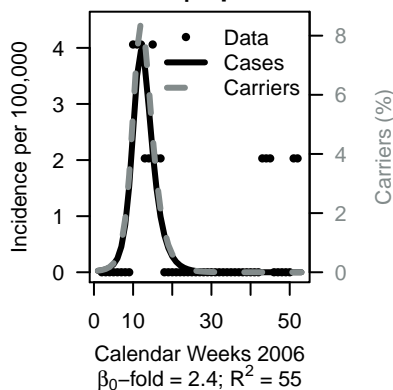
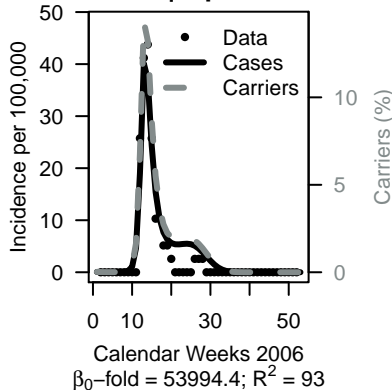
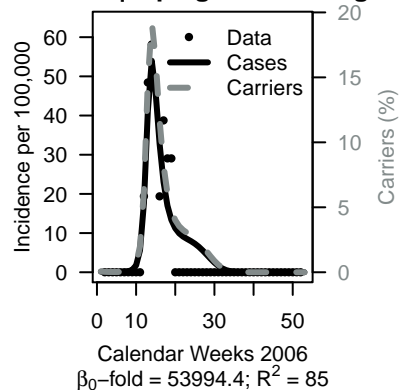
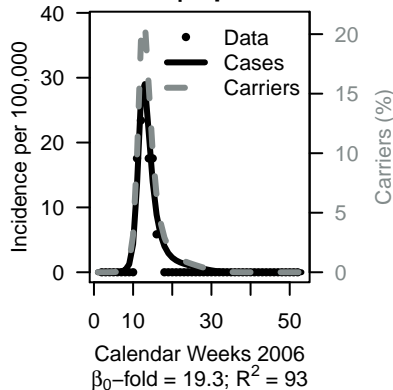
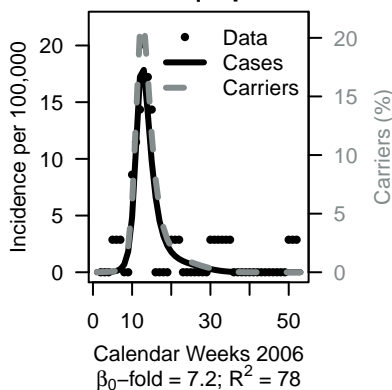
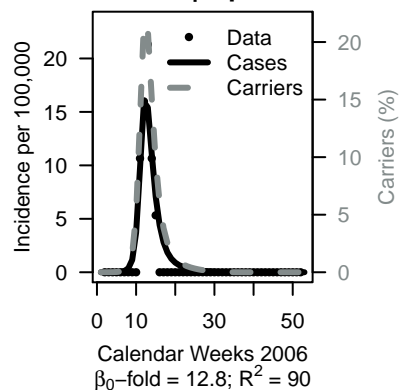
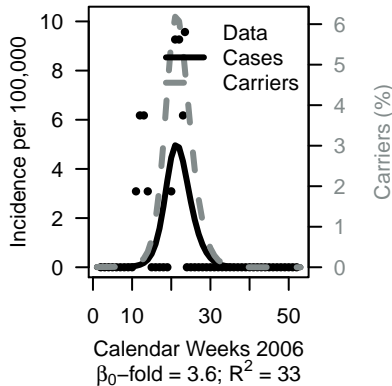
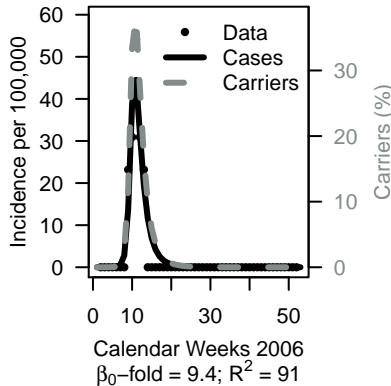
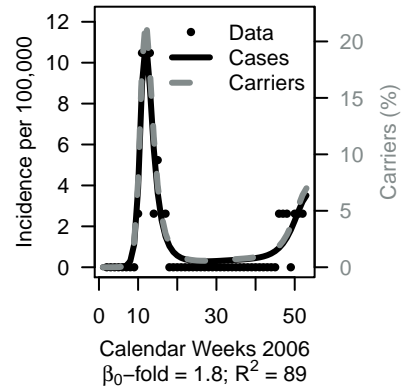
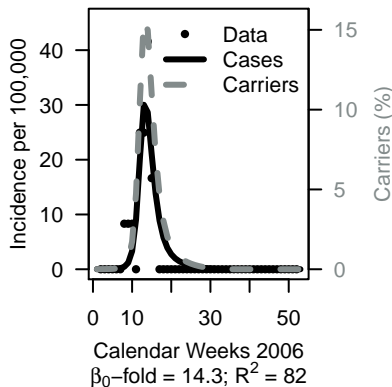
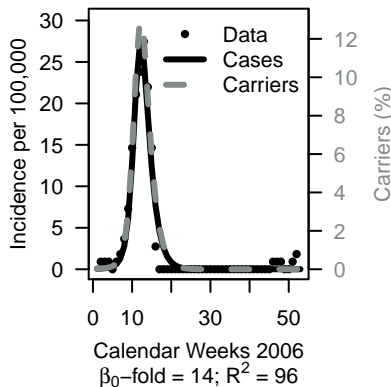
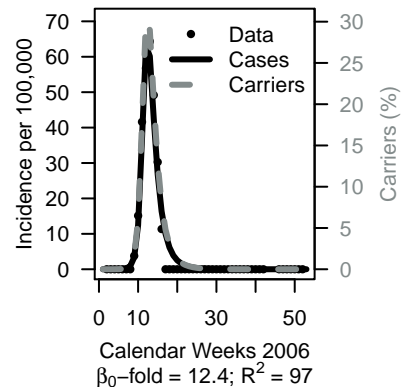
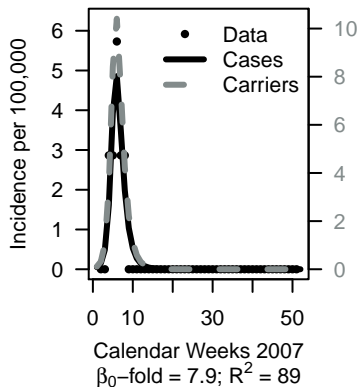
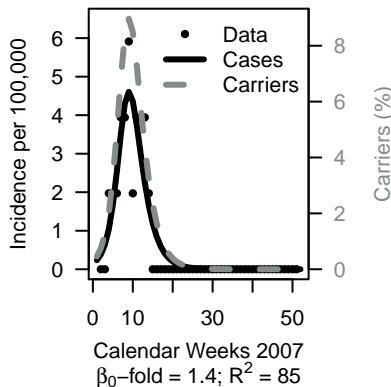
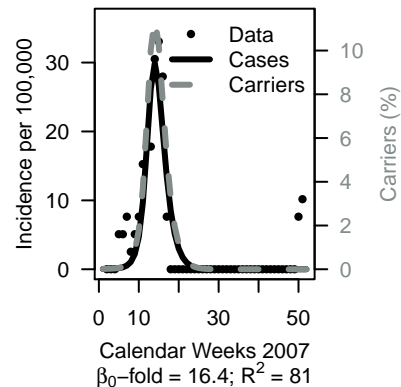


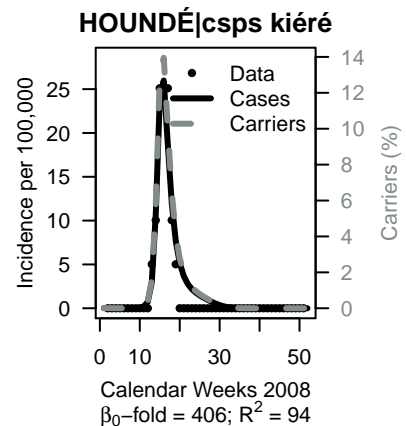
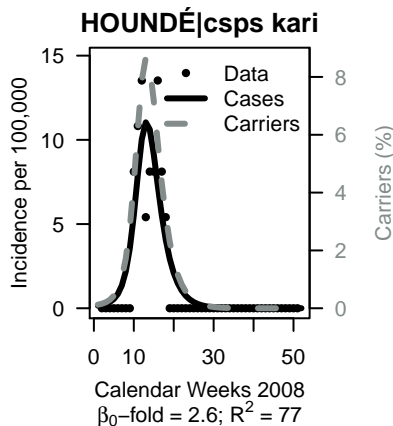
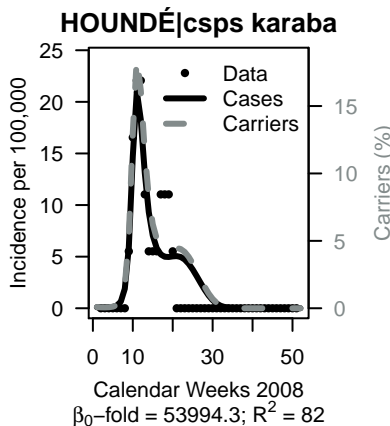
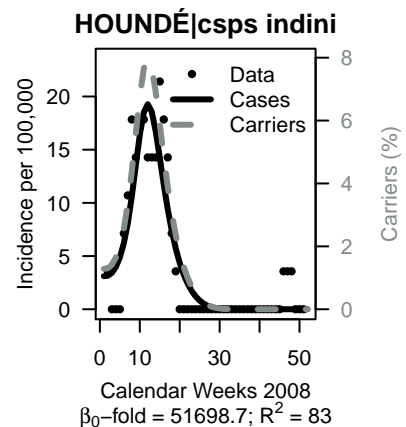
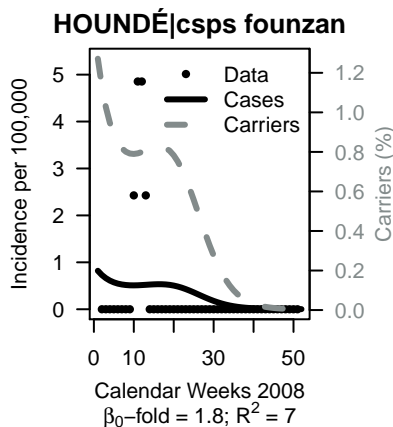
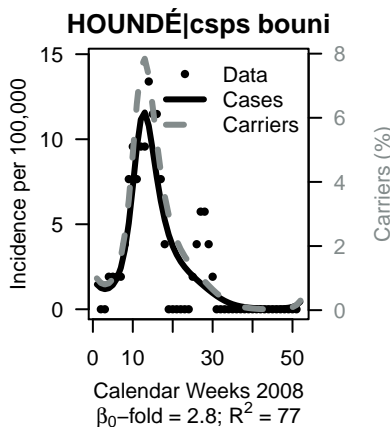
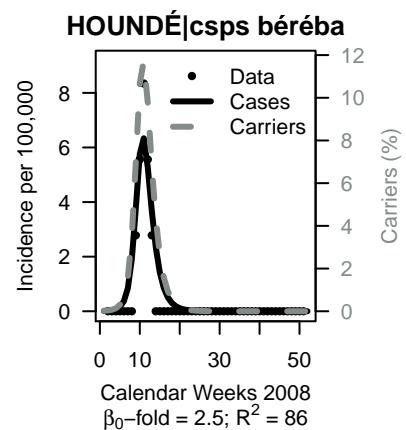
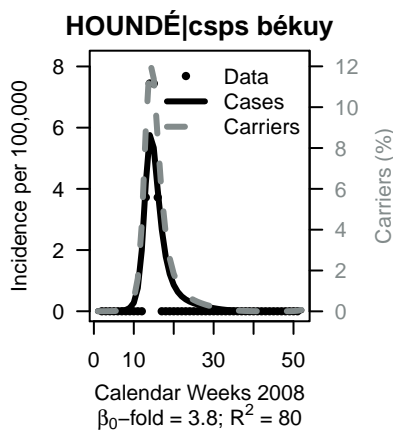
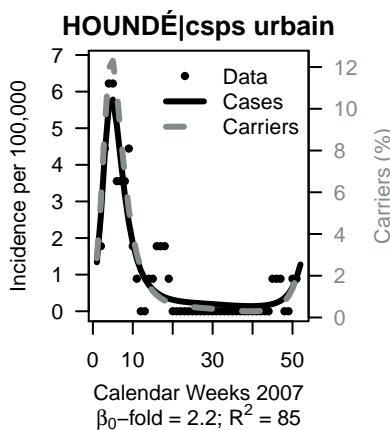
Figure 2. Model2—"transm" trajectories matching plots of simulated and observed (weekly) data, for 64 health center–years with complete data, across four health districts of Burkina faso (2004–2010).

SEGUENEGA|csps bema**SEGUENEGA|csps berenga****SEGUENEGA|csps bouga****SEGUENEGA|csps gambo****SEGUENEGA|csps kossouka****SEGUENEGA|csps berenga****SEGUENEGA|csps bouga****SEGUENEGA|csps goubré****SEGUENEGA|csps kossouka**

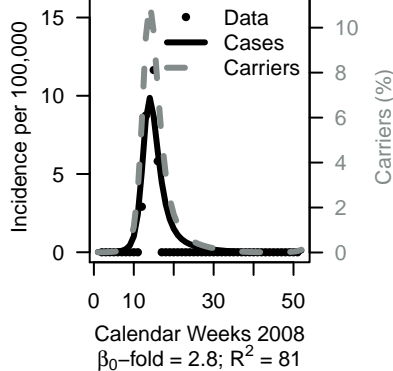
SEGUENEGA|csps kossouka**SEGUENEGA|csps bema****SEGUENEGA|csps berenga****SEGUENEGA|csps bouga****SEGUENEGA|csps gambo****SEGUENEGA|csps goubré****SEGUENEGA|csps kossouka****HOUNDÉ|csps founzan****HOUNDÉ|csps kari**

HOUNDÉ|csps urbain**HOUNDÉ|csps békuy****HOUNDÉ|csps béréba****HOUNDÉ|csps bouni****HOUNDÉ|csps founzan****HOUNDÉ|csps gombéléDougou****HOUNDÉ|csps karaba****HOUNDÉ|csps kari****HOUNDÉ|csps kiéré**

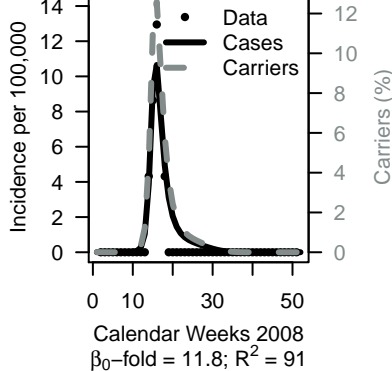
HOUNDÉ|csps koti**HOUNDÉ|csps maro****HOUNDÉ|csps pê****HOUNDÉ|csps sebedougou****HOUNDÉ|csps urbain****HOUNDÉ|csps wakuy****HOUNDÉ|csps béréba****HOUNDÉ|csps bouni****HOUNDÉ|csps pê**



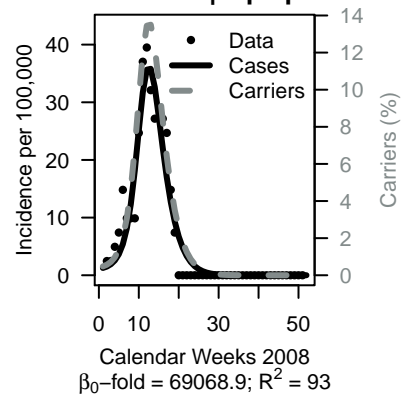
HOUNDÉ|csps koti



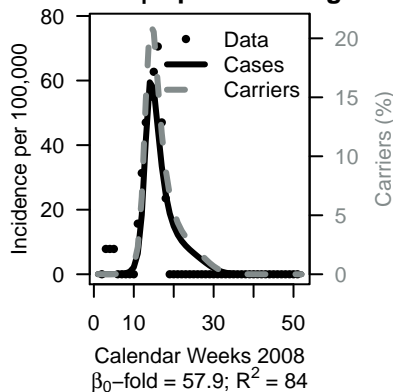
HOUNDÉ|csps kouloho



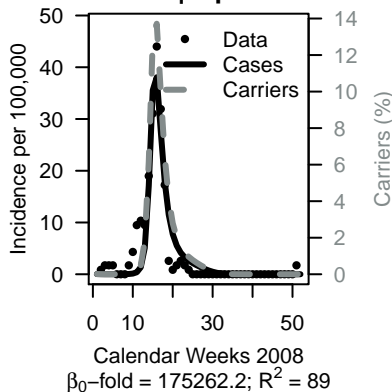
HOUNDÉ|csps pè



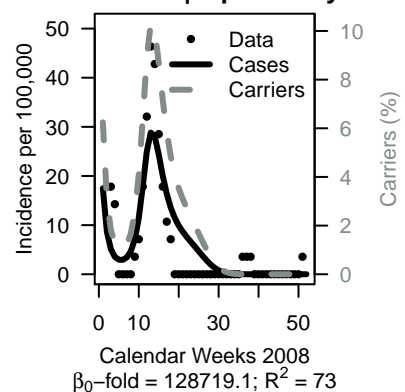
HOUNDÉ|csps sebedougou



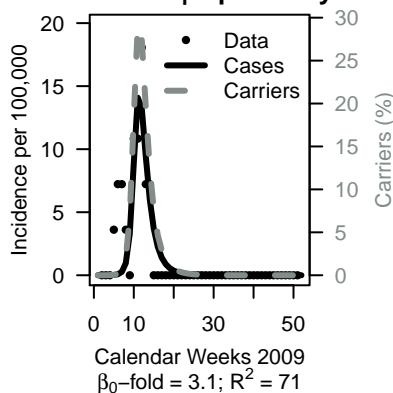
HOUNDÉ|csps urbain



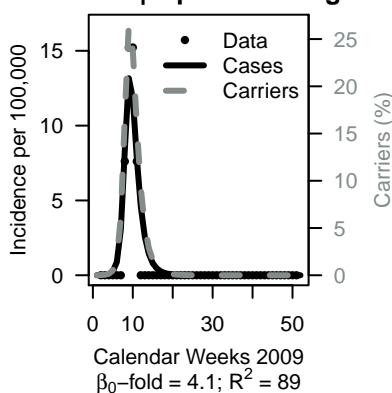
HOUNDÉ|csps wakuy



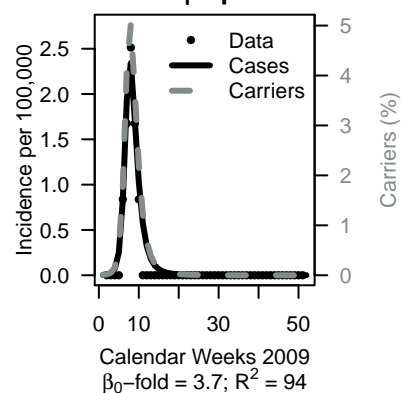
HOUNDÉ|csps békuy



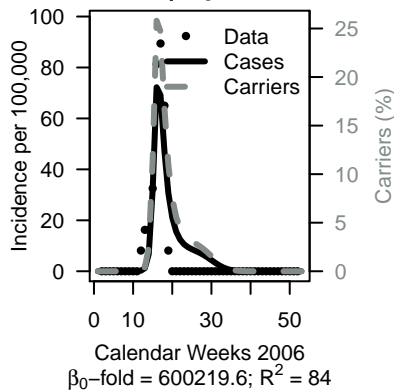
HOUNDÉ|csps sebedougou



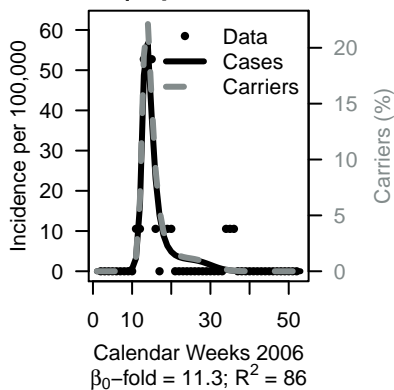
HOUNDÉ|csps urbain



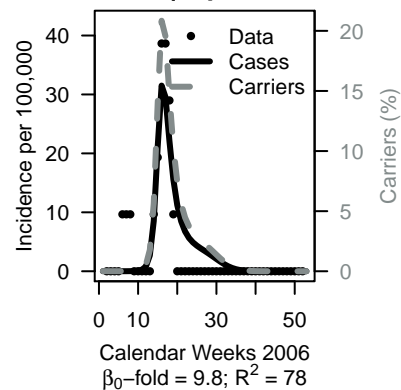
LENA|cspcs balla



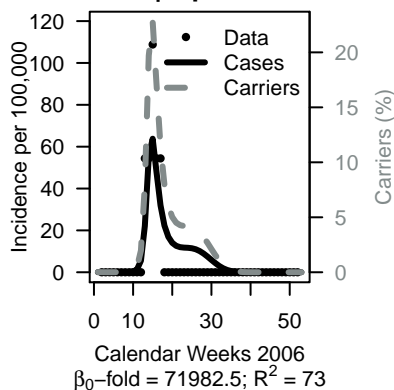
LENA|cspcs kwekwesso



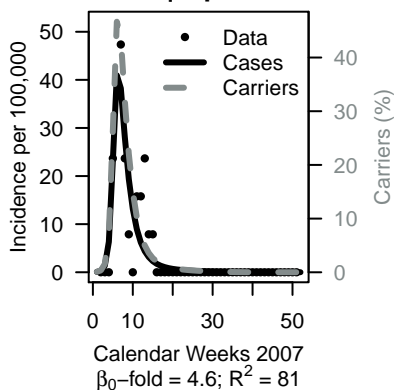
LENA|cspcs sissa



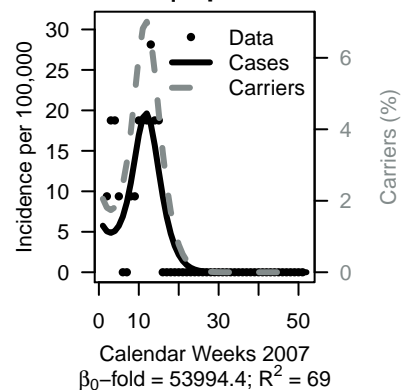
LENA|cspcs tiarako



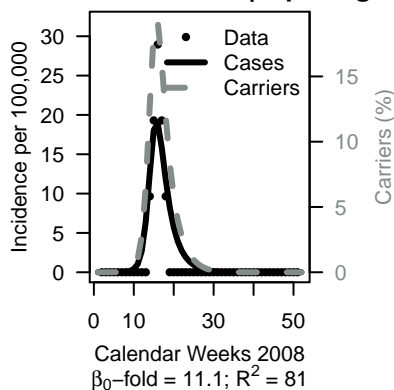
LENA|cspcs balla



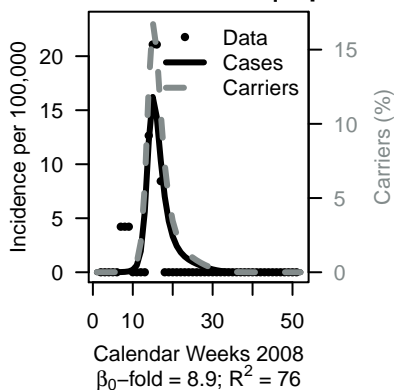
LENA|cspcs sissa



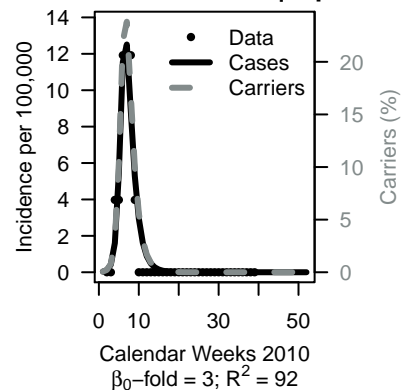
KARANGASSO VIGUE|cspcs deguel



KARANGASSO VIGUE|cspcs wara



KARANGASSO VIGUE|cspcs wara



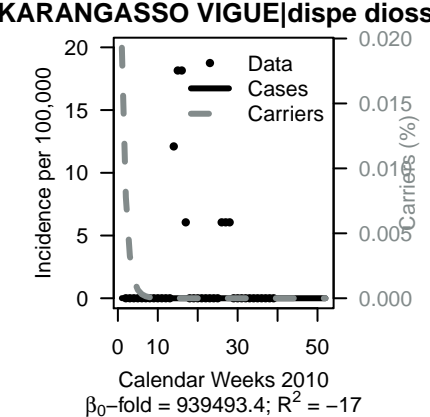
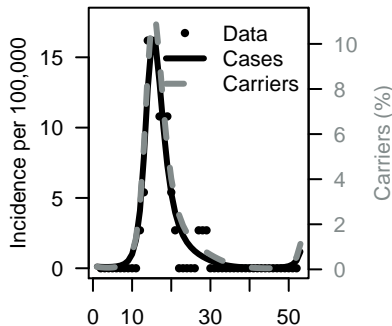
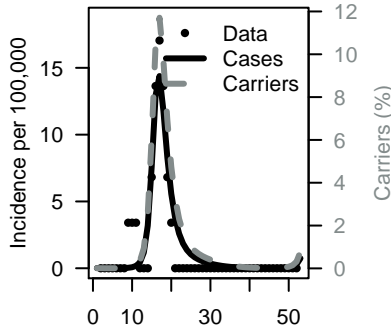


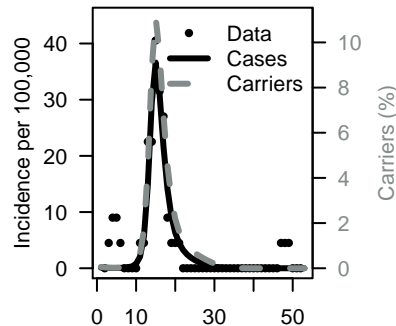
Figure 3. Model3—"inv-transm" trajectories matching plots of simulated and observed (weekly) data, for 64 health center-years with complete data, across four health districts of Burkina faso (2004–2010).

SEGUENEGA|csps bema

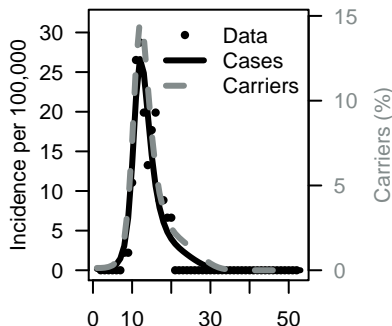
$a_0\text{-fold} = 2.4; \beta_0\text{-fold} = 2.9; R^2 = 92$

SEGUENEGA|csps berenga

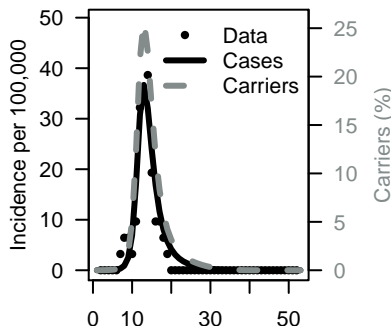
$a_0\text{-fold} = 1.9; \beta_0\text{-fold} = 3.4; R^2 = 87$

SEGUENEGA|csps bouga

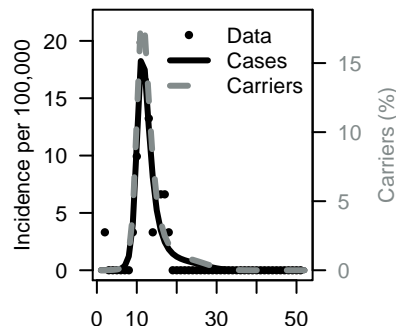
$a_0\text{-fold} = 7.1; \beta_0\text{-fold} = 12.1; R^2 = 87$

SEGUENEGA|csps gambo

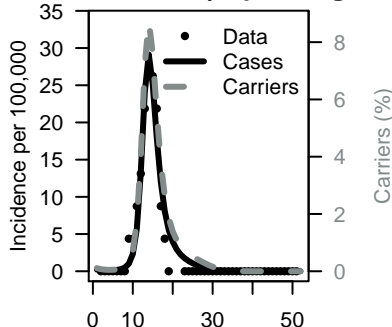
$a_0\text{-fold} = 3.9; \beta_0\text{-fold} = 10.7; R^2 = 90$

SEGUENEGA|csps kossouka

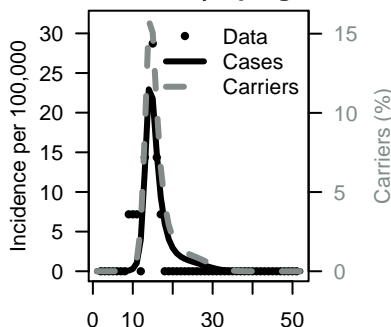
$a_0\text{-fold} = 2.6; \beta_0\text{-fold} = 8.2; R^2 = 92$

SEGUENEGA|csps berenga

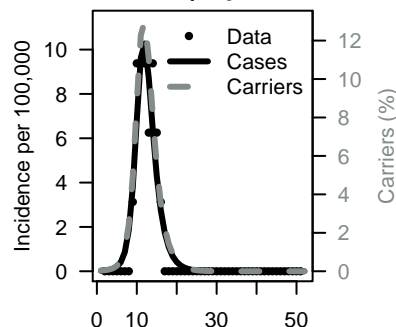
$a_0\text{-fold} = 1.4; \beta_0\text{-fold} = 14.4; R^2 = 92$

SEGUENEGA|csps bouga

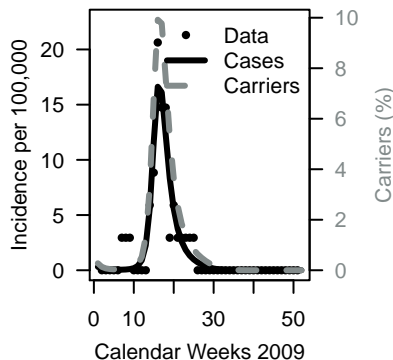
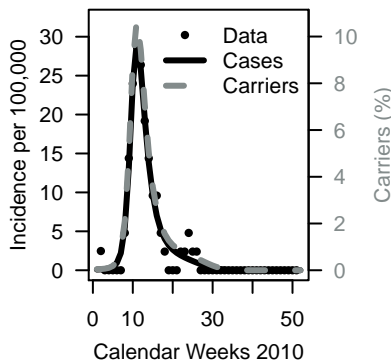
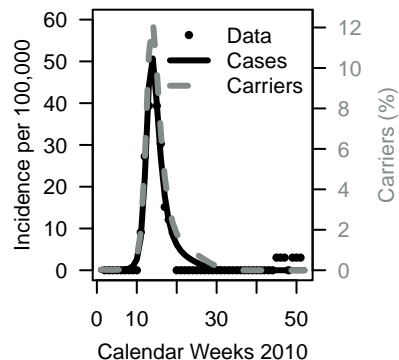
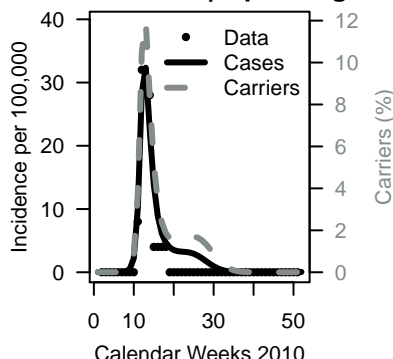
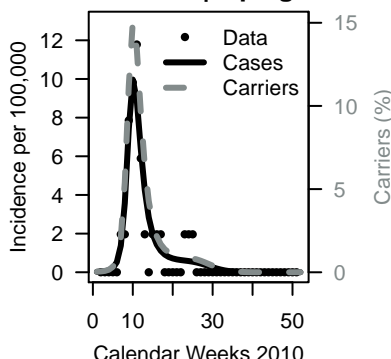
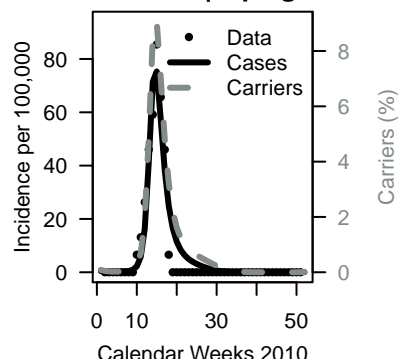
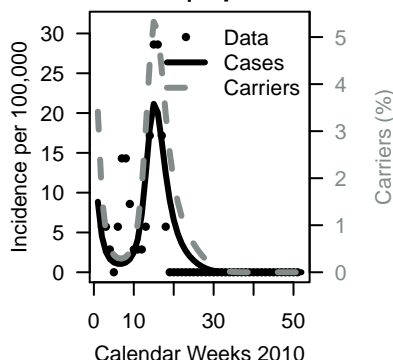
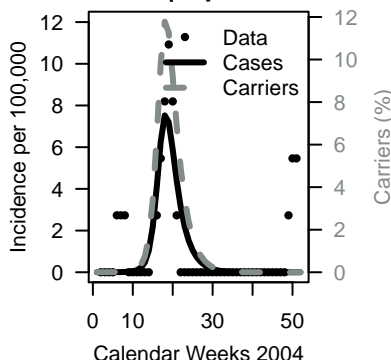
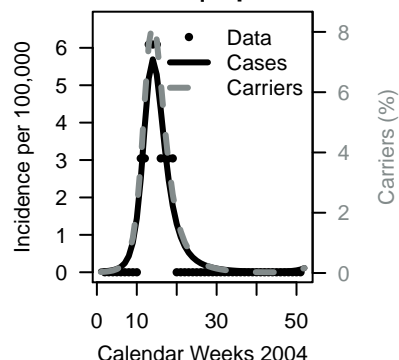
$a_0\text{-fold} = 7.1; \beta_0\text{-fold} = 10; R^2 = 96$

SEGUENEGA|csps goubré

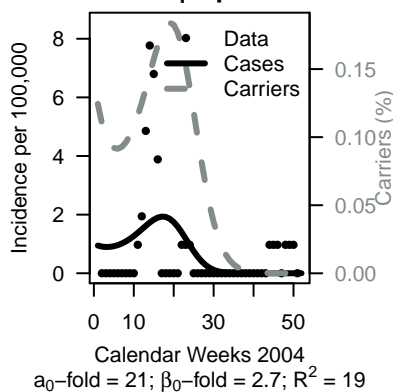
$a_0\text{-fold} = 1.6; \beta_0\text{-fold} = 10.7; R^2 = 83$

SEGUENEGA|csps kossouka

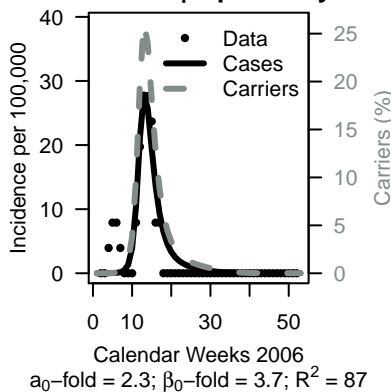
$a_0\text{-fold} = 1.7; \beta_0\text{-fold} = 4; R^2 = 91$

SEGUENEGA|csps kossouka
 $a_0\text{-fold} = 3.6; \beta_0\text{-fold} = 15.4; R^2 = 89$
SEGUENEGA|csps bema
 $a_0\text{-fold} = 2.6; \beta_0\text{-fold} = 347.1; R^2 = 98$
SEGUENEGA|csps berenga
 $a_0\text{-fold} = 8.9; \beta_0\text{-fold} = 42.4; R^2 = 97$
SEGUENEGA|csps bouga
 $a_0\text{-fold} = 5.5; \beta_0\text{-fold} = 17.8; R^2 = 90$
SEGUENEGA|csps gambo
 $a_0\text{-fold} = 1; \beta_0\text{-fold} = 5.8; R^2 = 88$
SEGUENEGA|csps goubré
 $a_0\text{-fold} = 8.3; \beta_0\text{-fold} = 8; R^2 = 92$
SEGUENEGA|csps kossouka
 $a_0\text{-fold} = 6.9; \beta_0\text{-fold} = 22.4; R^2 = 64$
HOUNDÉ|csps founzan
 $a_0\text{-fold} = 1; \beta_0\text{-fold} = 4.4; R^2 = 57$
HOUNDÉ|csps kari
 $a_0\text{-fold} = 1; \beta_0\text{-fold} = 1.8; R^2 = 91$

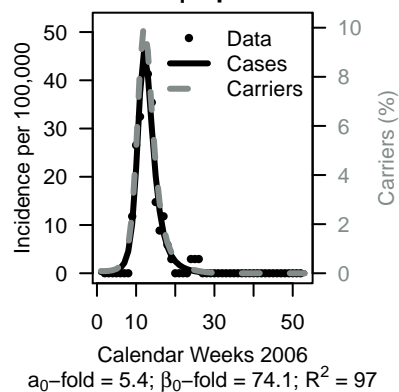
HOUNDÉ|csps urbain



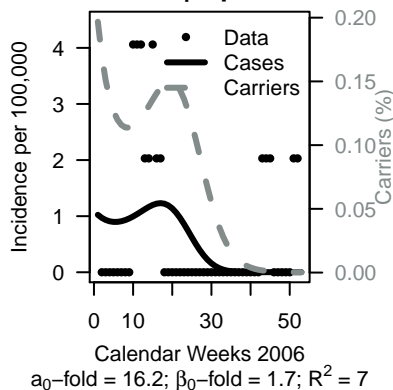
HOUNDÉ|csps békuy



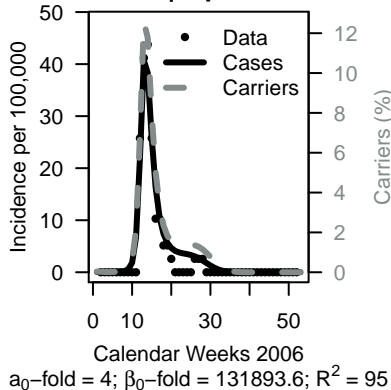
HOUNDÉ|csps béréba



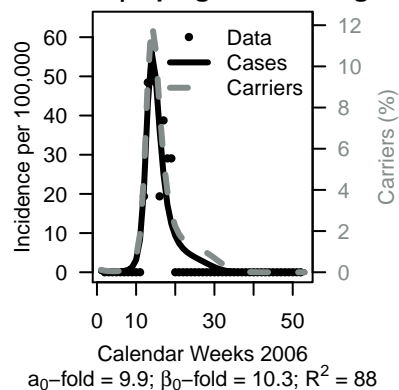
HOUNDÉ|csps bouni



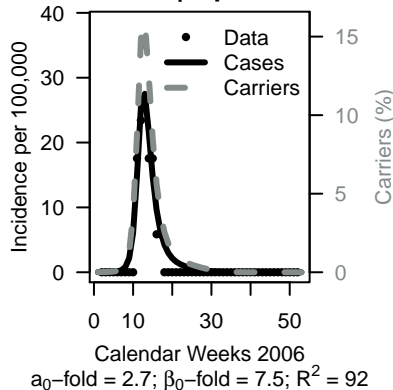
HOUNDÉ|csps founzan



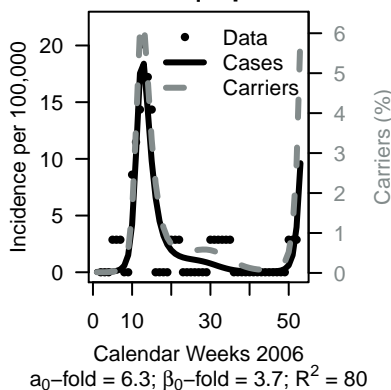
HOUNDÉ|csps gombéléDougou



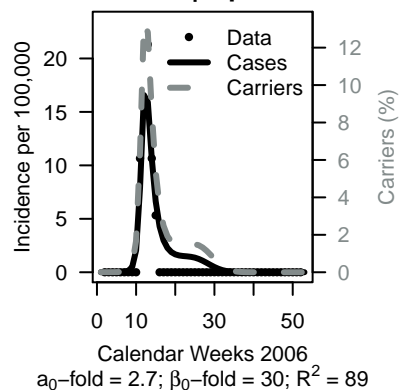
HOUNDÉ|csps karaba

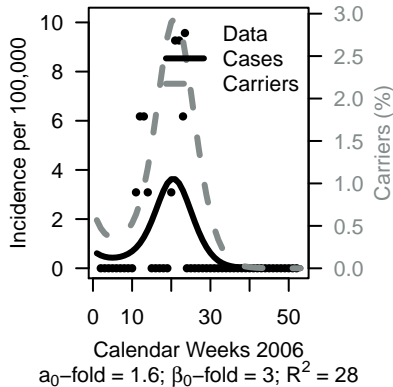
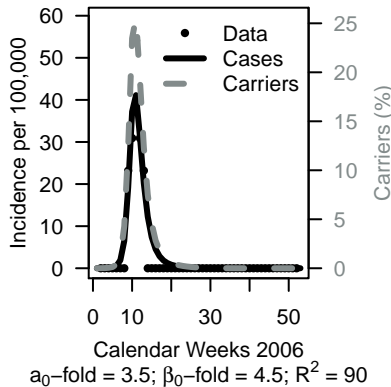
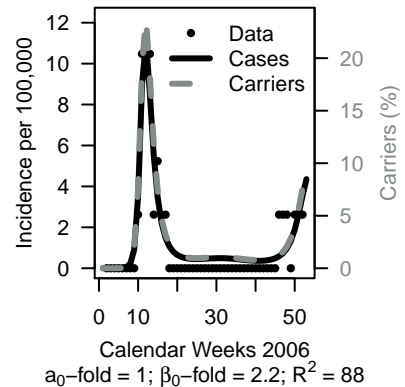
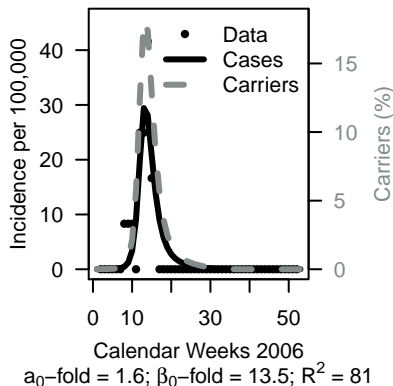
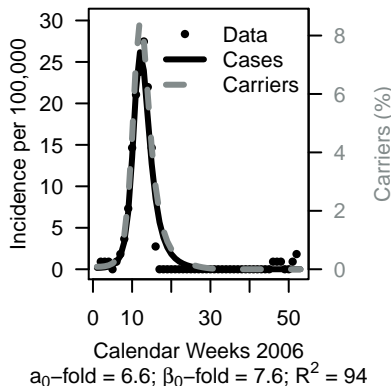
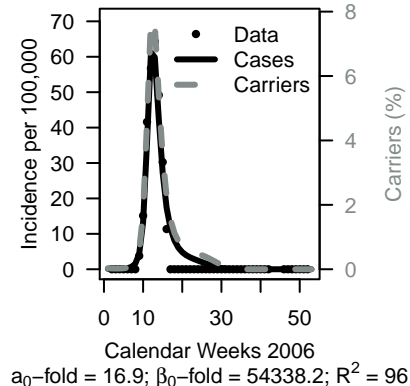
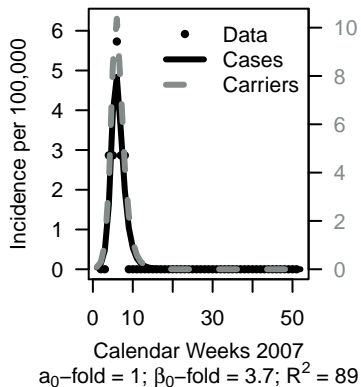
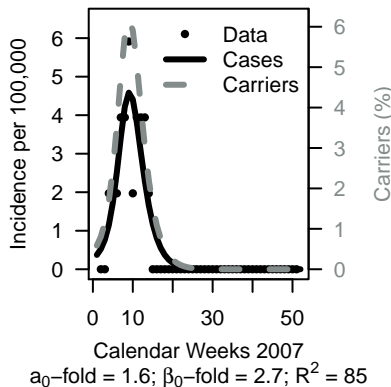
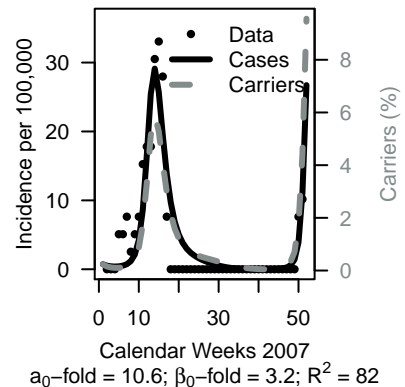


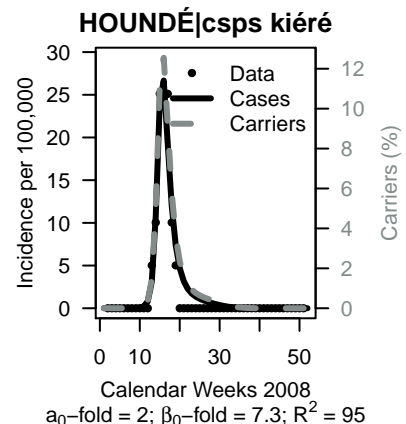
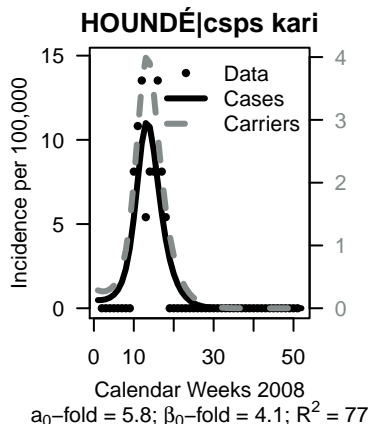
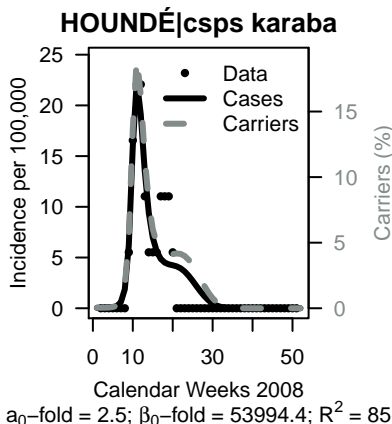
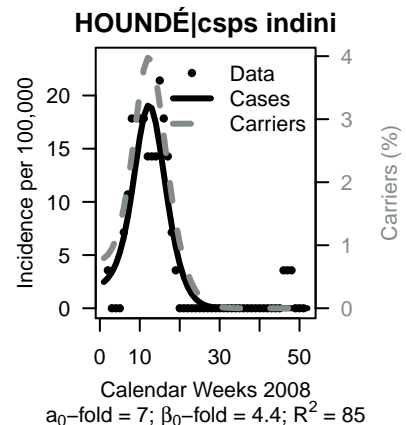
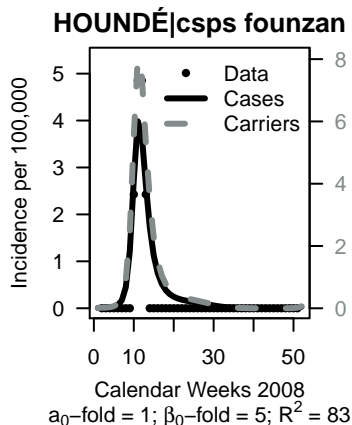
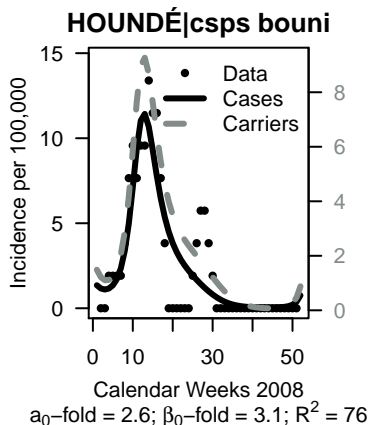
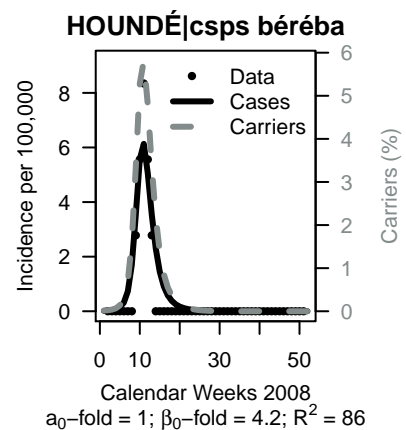
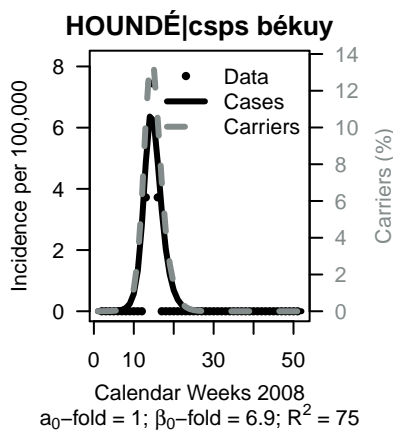
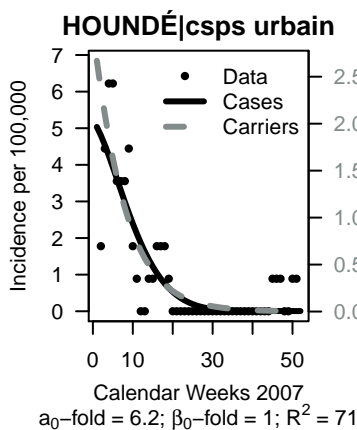
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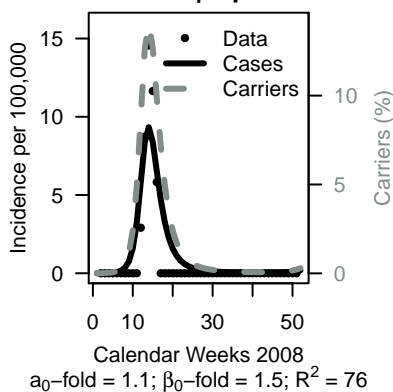
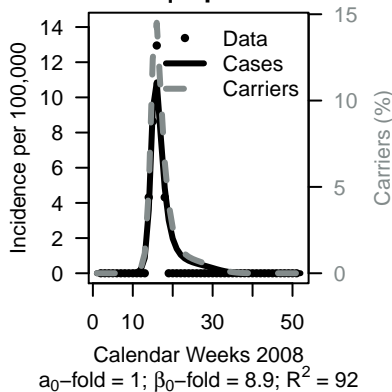
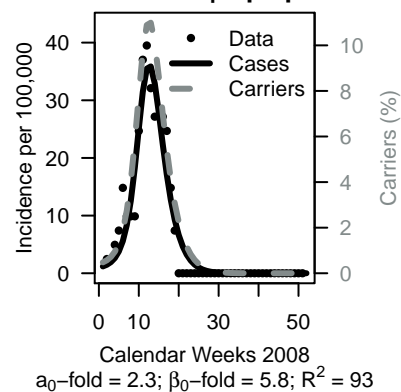
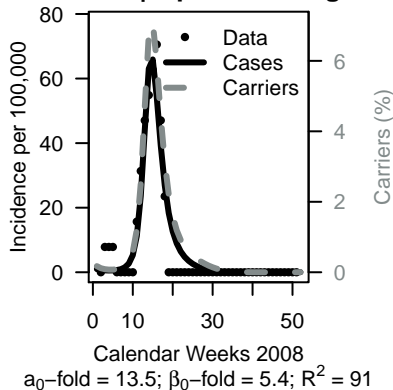
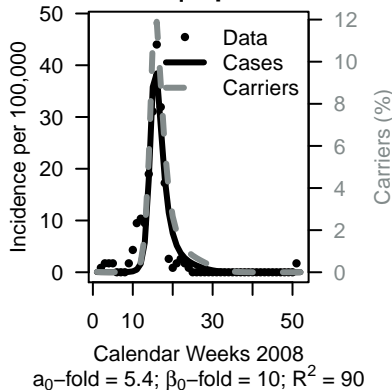
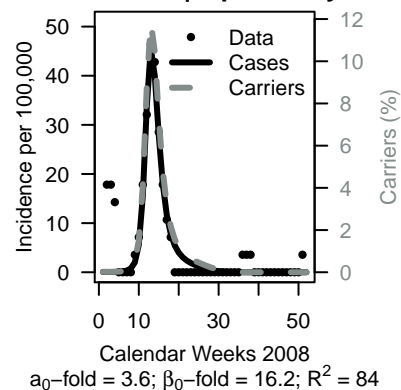
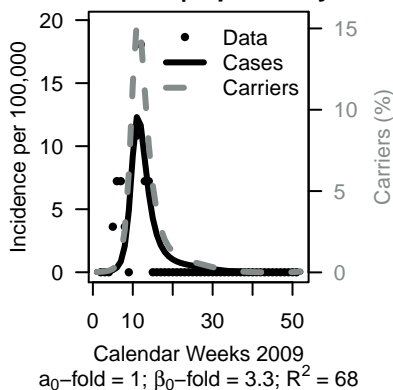
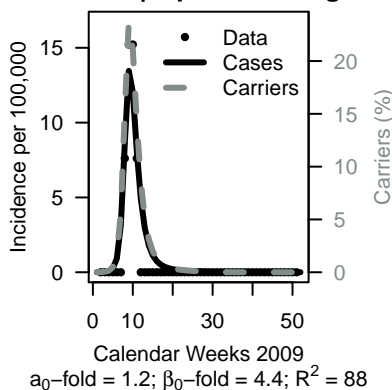
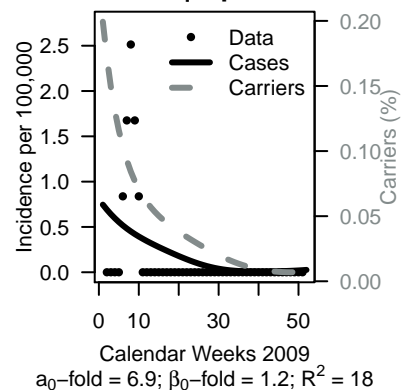


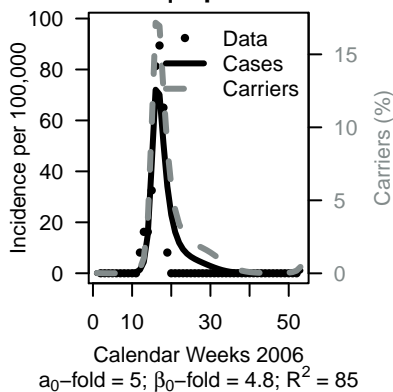
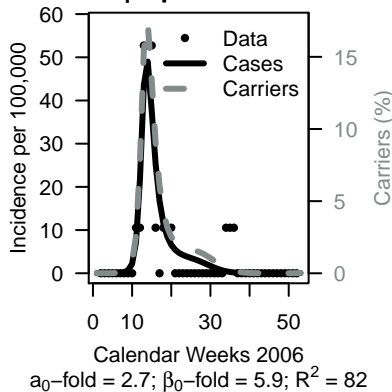
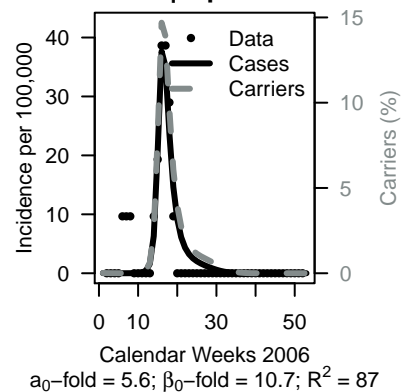
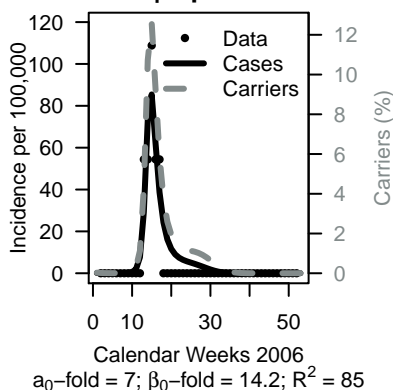
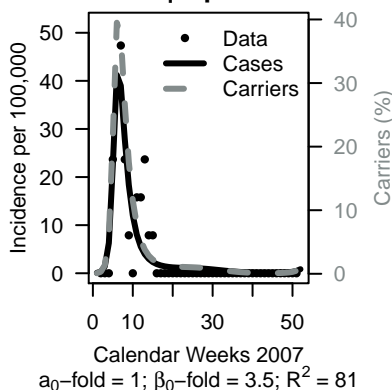
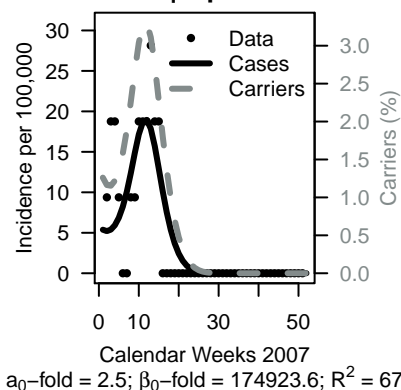
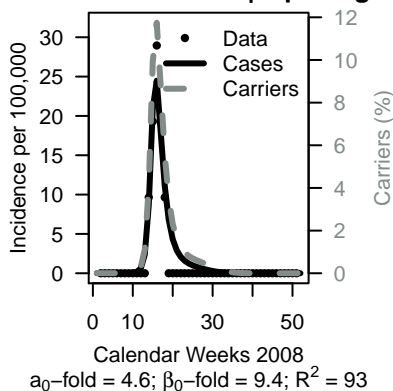
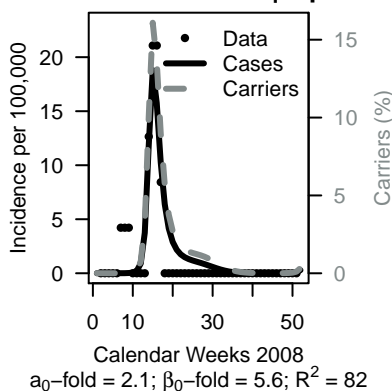
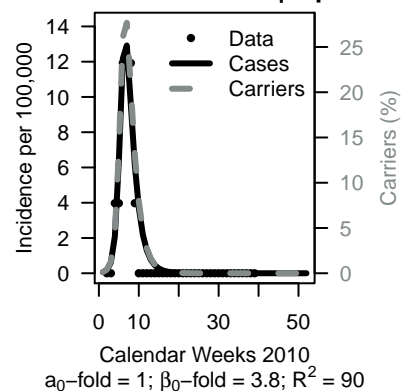
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HOUNDÉ|csps koti**HOUNDÉ|csps maro****HOUNDÉ|csps pê****HOUNDÉ|csps sebedougou****HOUNDÉ|csps urbain****HOUNDÉ|csps wakuy****HOUNDÉ|csps béréba****HOUNDÉ|csps bouni****HOUNDÉ|csps pê**



HOUNDÉ|csps koti**HOUNDÉ|csps kouloho****HOUNDÉ|csps pè****HOUNDÉ|csps sebedougou****HOUNDÉ|csps urbain****HOUNDÉ|csps wakuy****HOUNDÉ|csps békuy****HOUNDÉ|csps sebedougou****HOUNDÉ|csps urbain**

LENA|cspcs balla**LENA|cspcs kwekwesso****LENA|cspcs sissa****LENA|cspcs tiarako****LENA|cspcs balla****LENA|cspcs sissa****KARANGASSO VIGUE|cspcs deguel****KARANGASSO VIGUE|cspcs wara****KARANGASSO VIGUE|cspcs wara**

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