

Google Health Trends performance reflecting dengue incidence for the Brazilian states

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Additional file: Plots of multiple and simple linear models between Google Health Trends data and weekly dengue incidence for each of the 27 Brazilian states

Combined and individual terms for all the Brazilian states

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Acré (AC)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

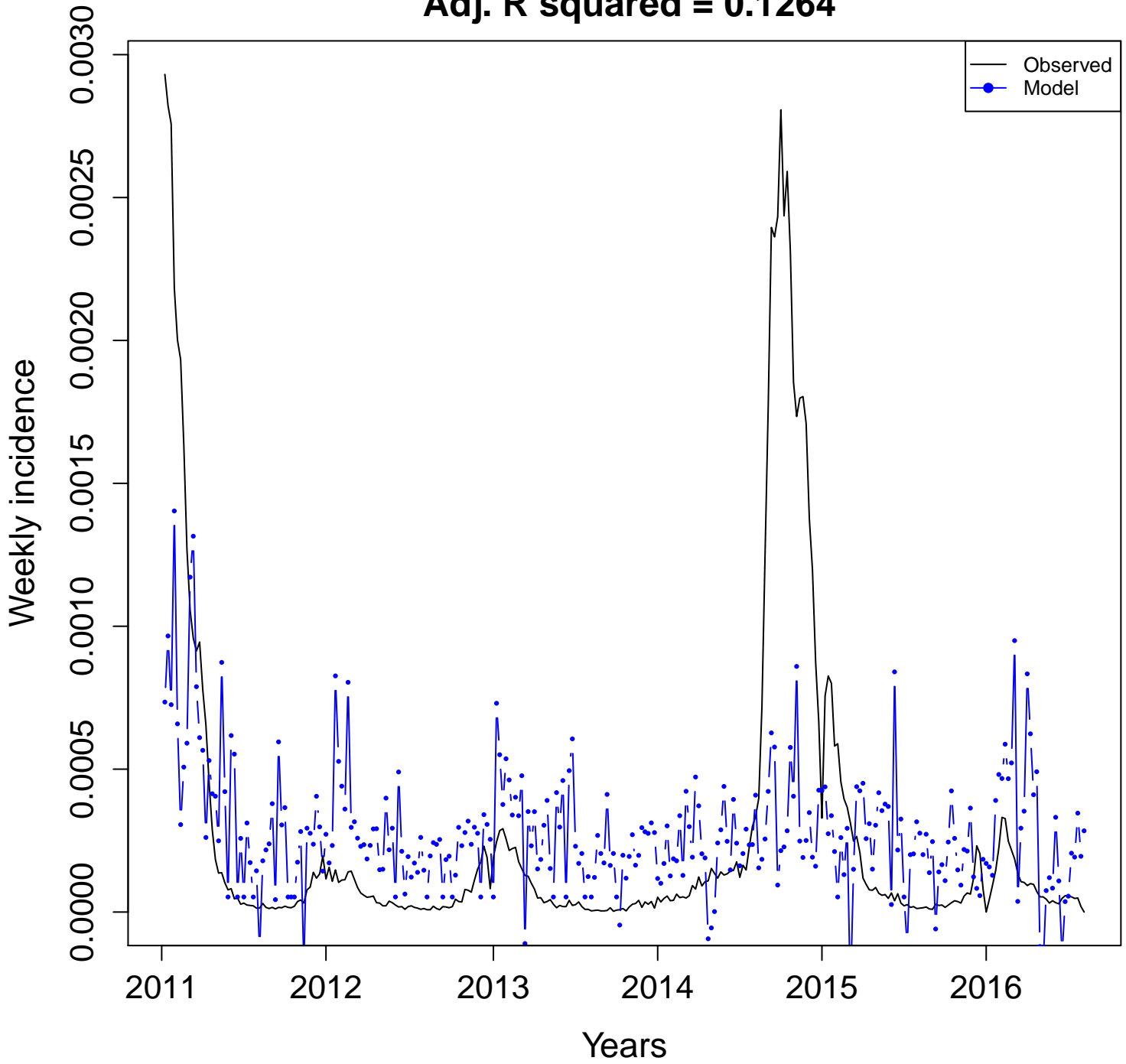
- **Combined terms:**
 - **All:** model with all the available terms. n = number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. n = number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
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Combined terms
Adjusted R squared

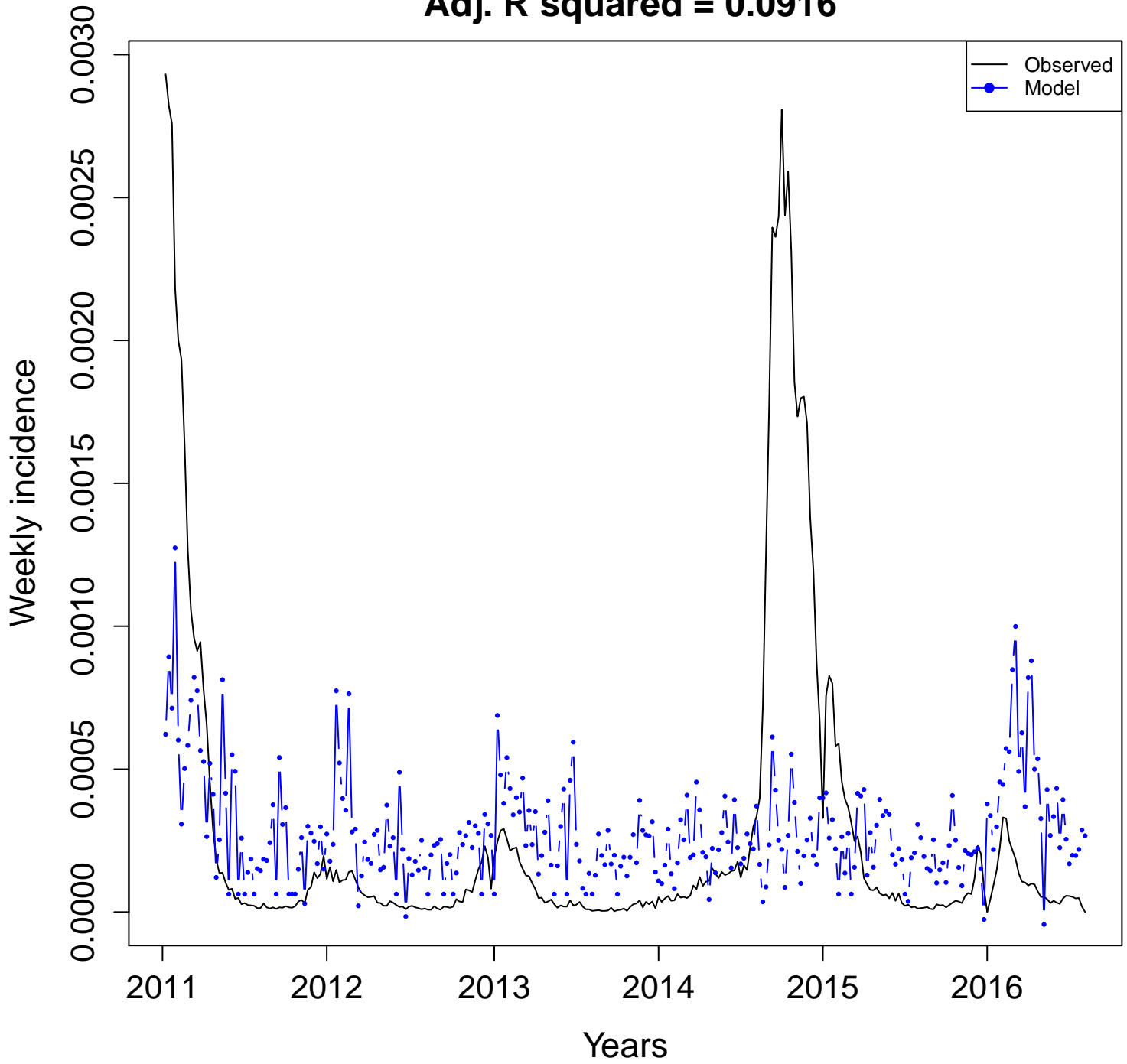
Acré (AC)

All
(n = 7)

BR-AC
Adj. R squared = 0.1264

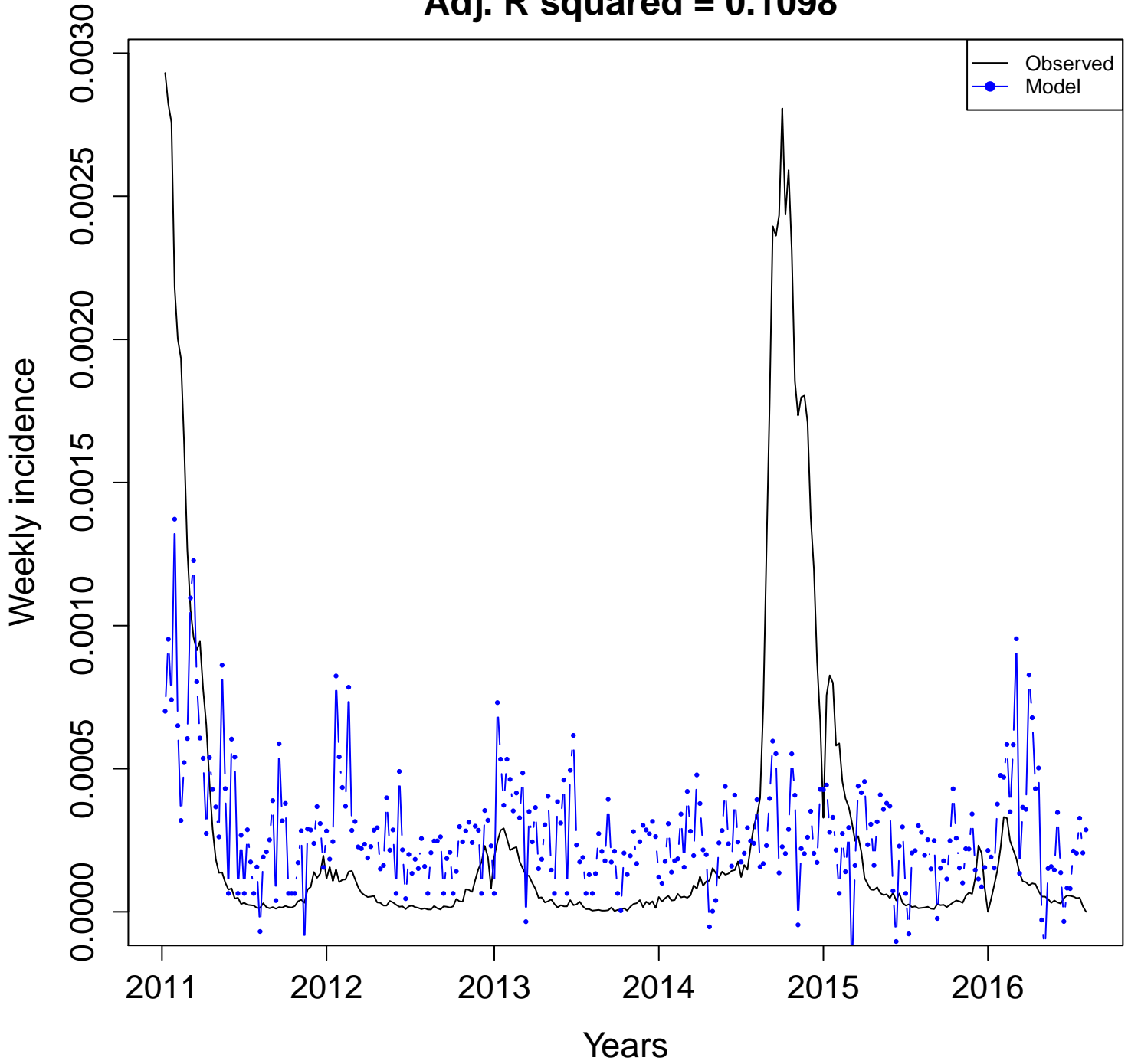


BR-AC
Adj. R squared = 0.0916



**Uncorrelated
(n = 6)**

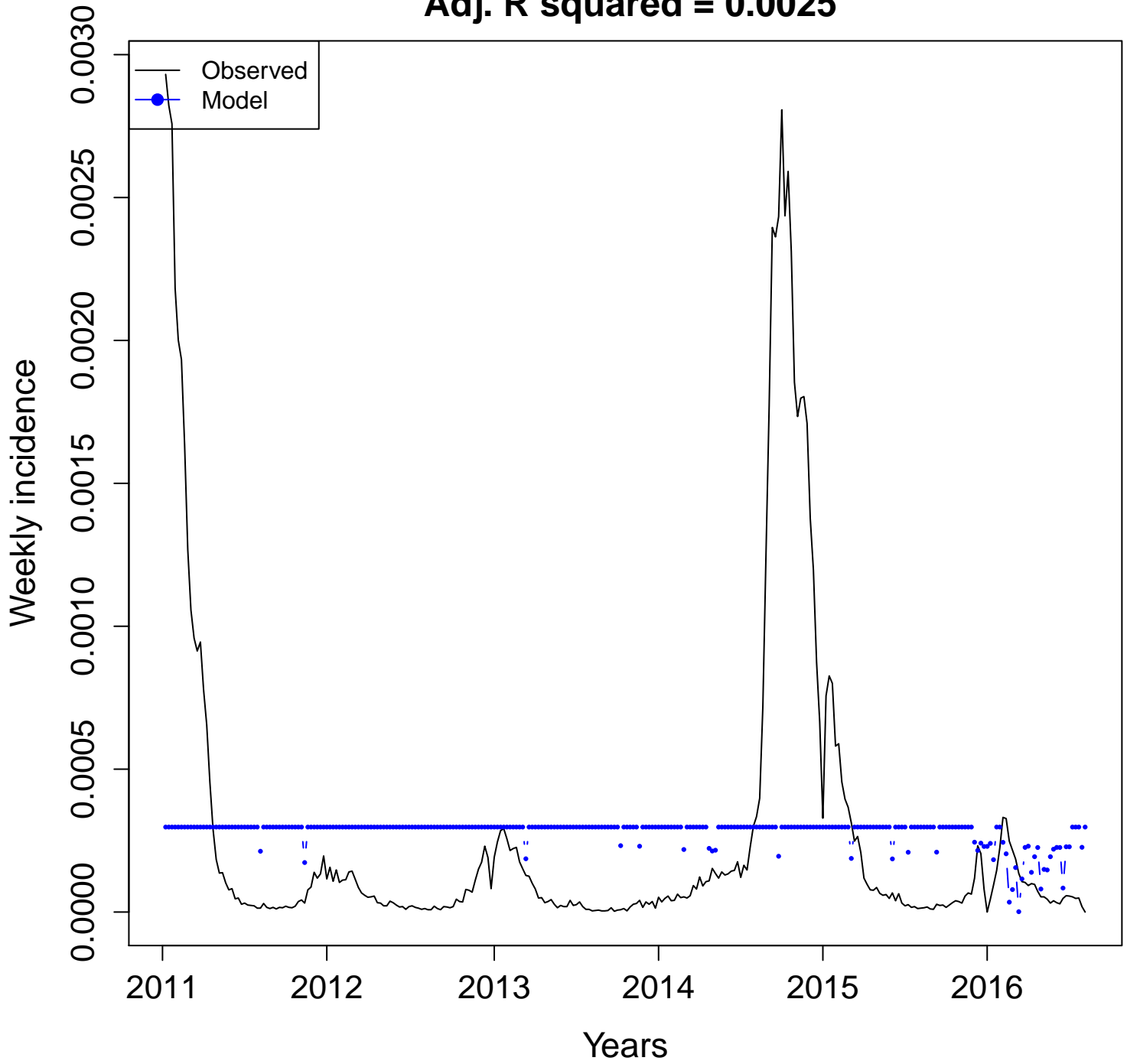
**BR-AC
Adj. R squared = 0.1098**



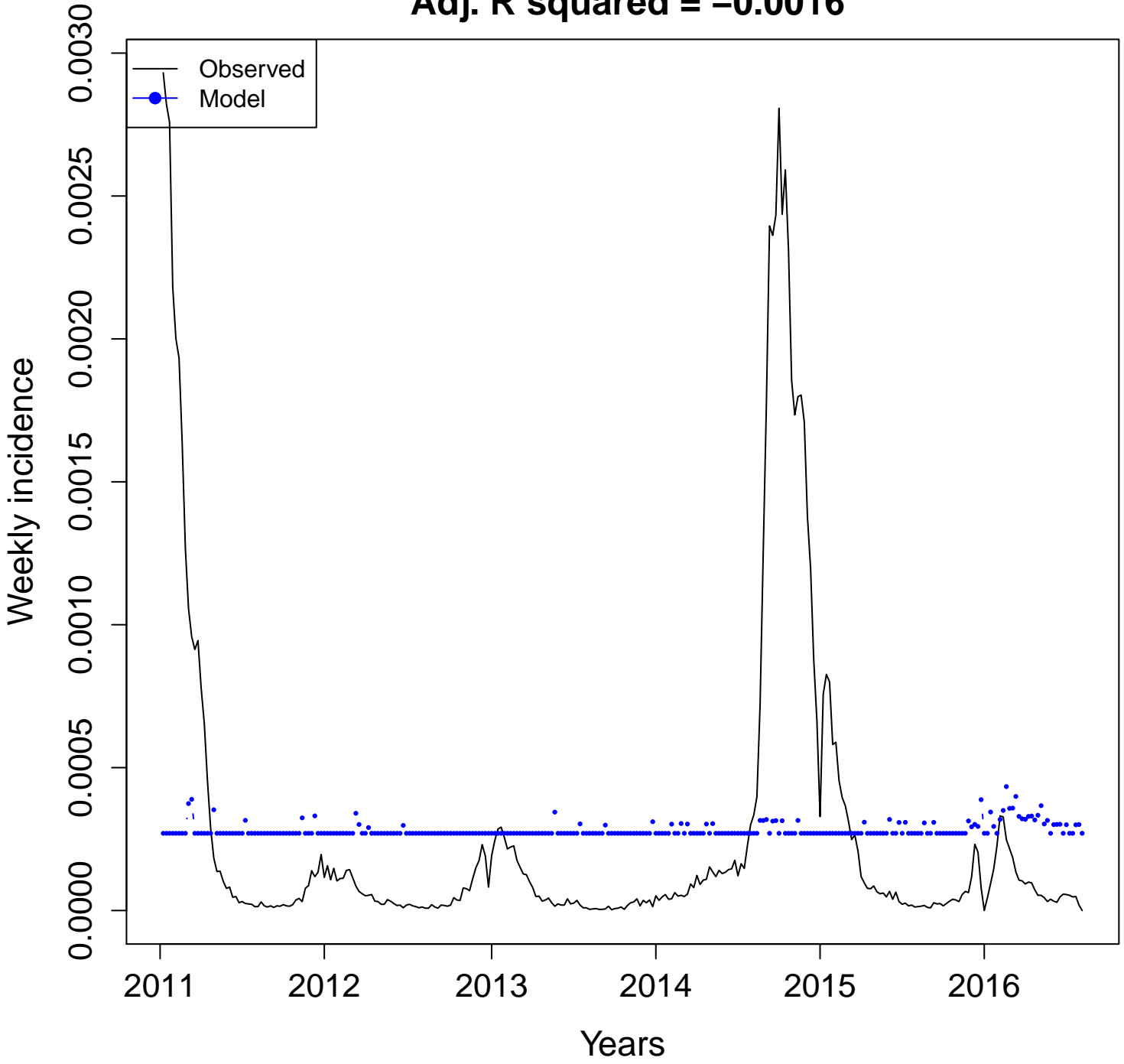
Individual terms
Adjusted R squared

Acré (AC)

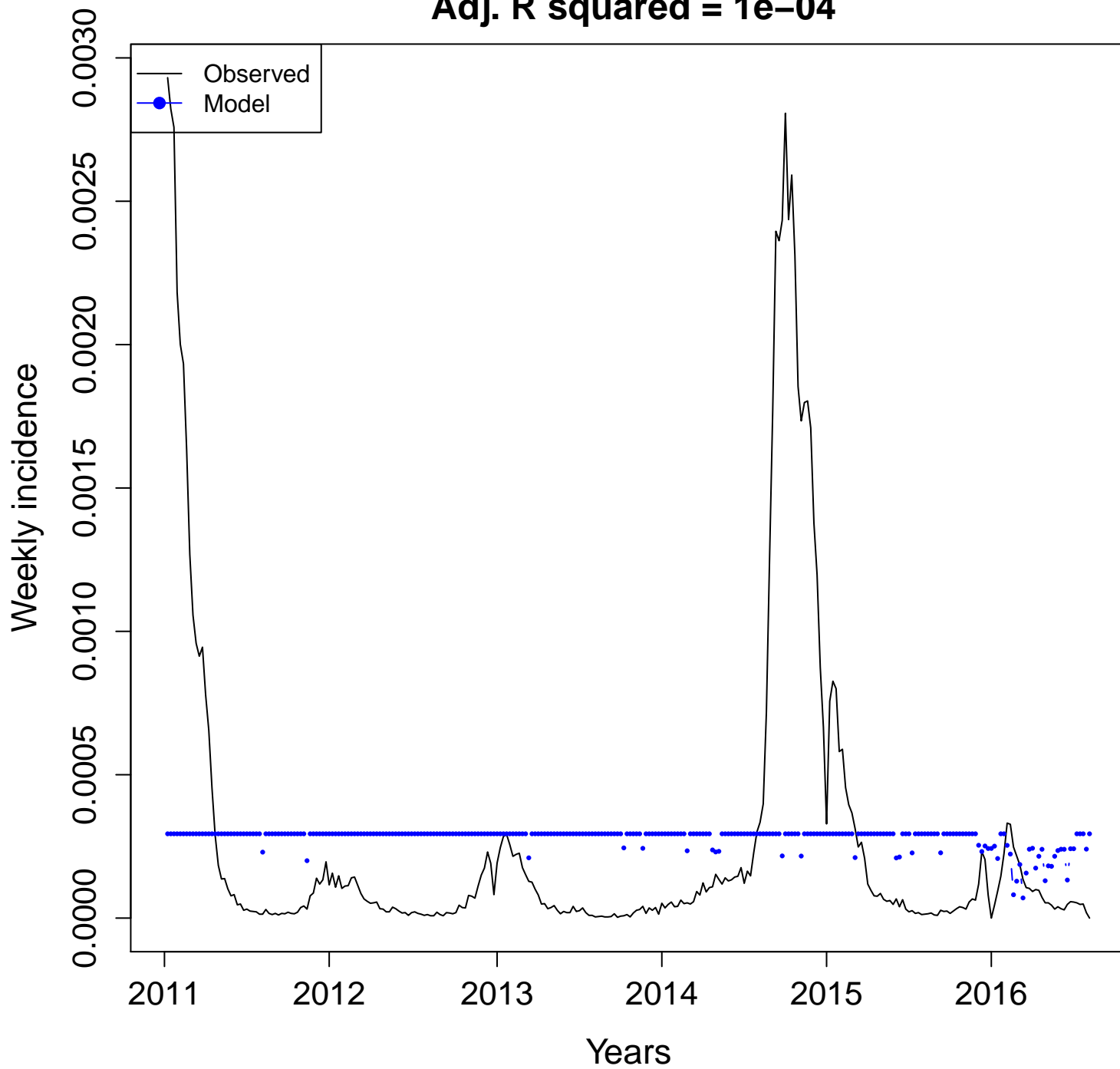
AC- aedes.aegypti
Adj. R squared = 0.0025



AC- aedes
Adj. R squared = -0.0016

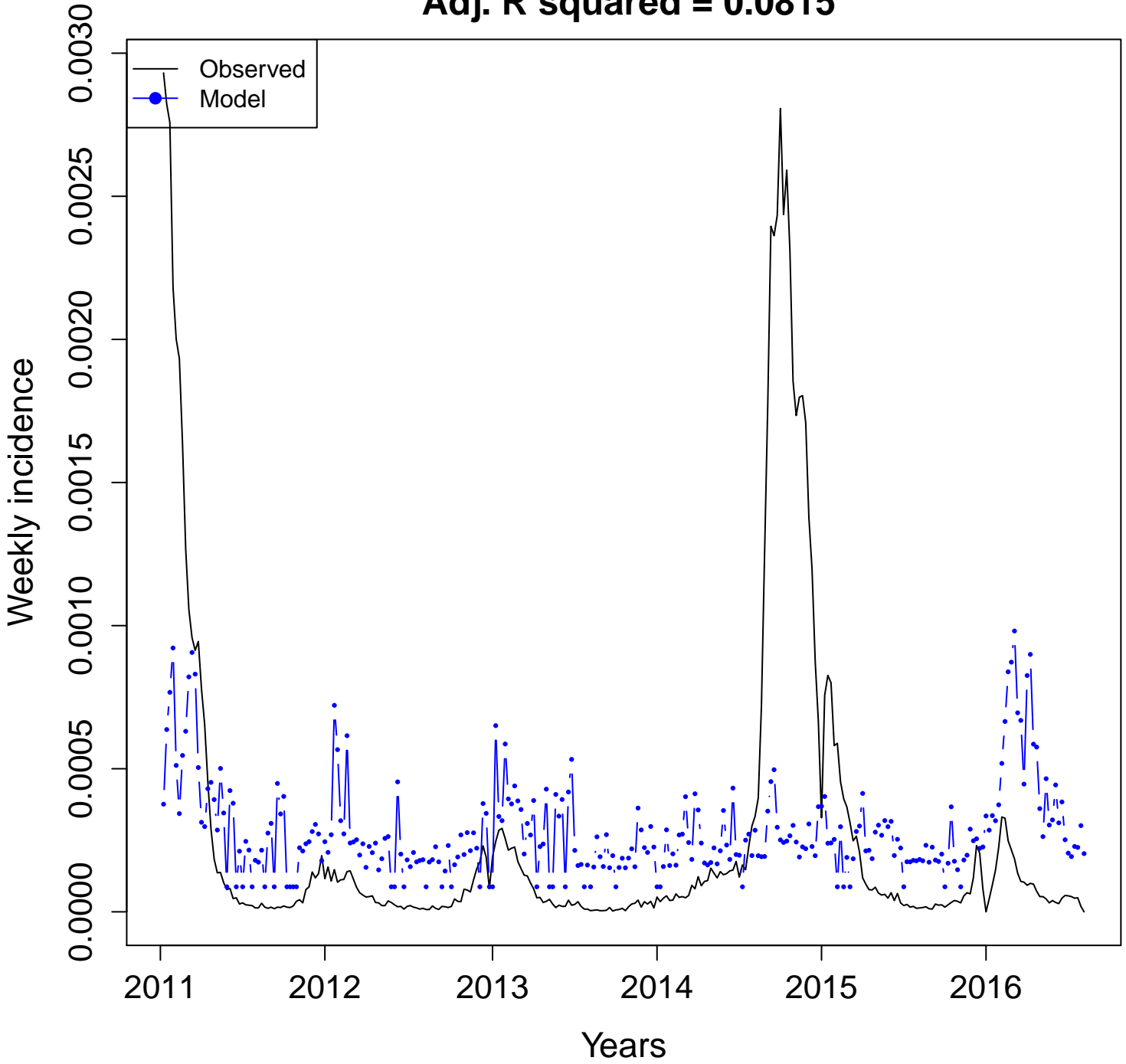


AC- aegypti
Adj. R squared = 1e-04

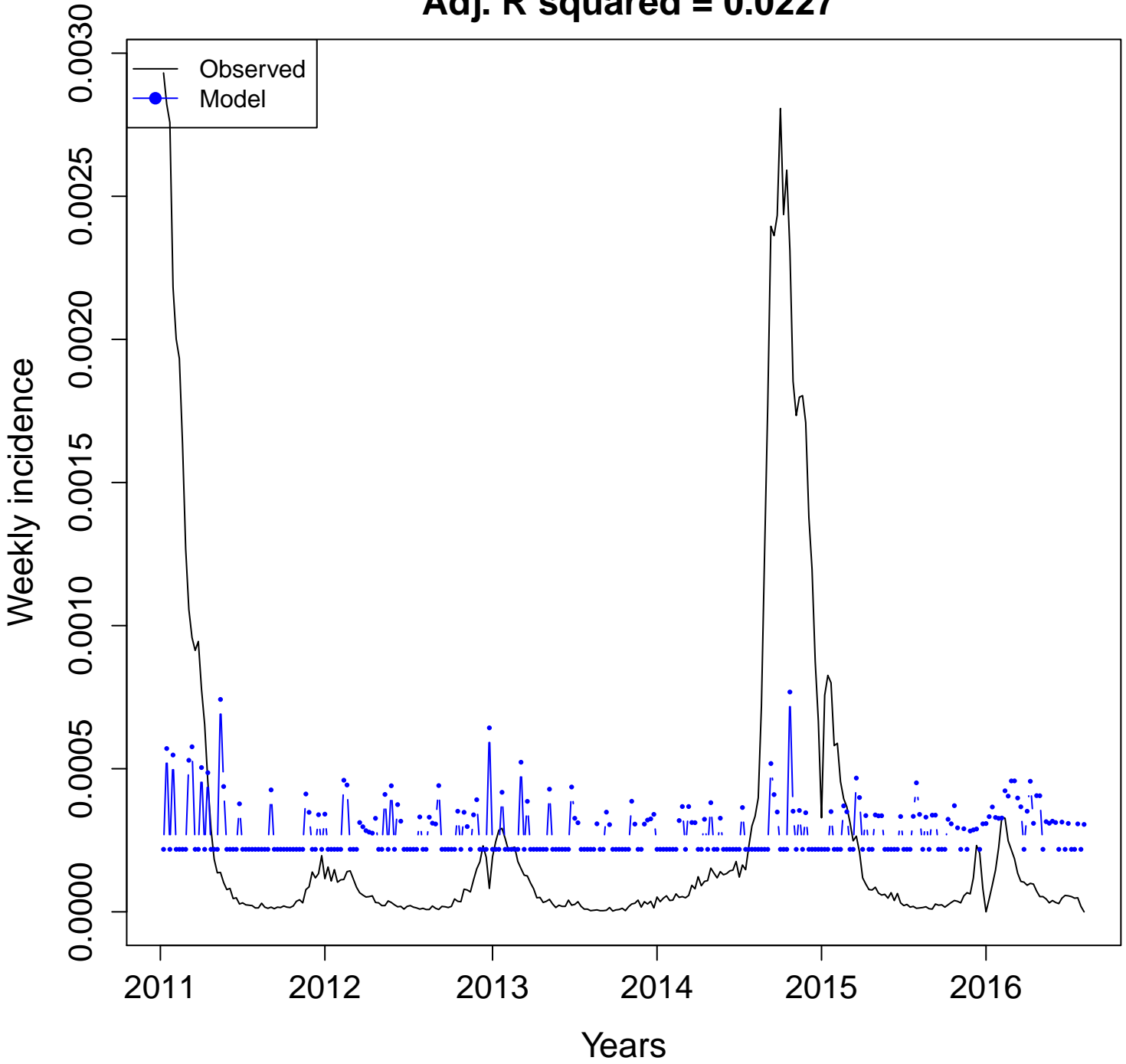


AC- dengue

Adj. R squared = 0.0815

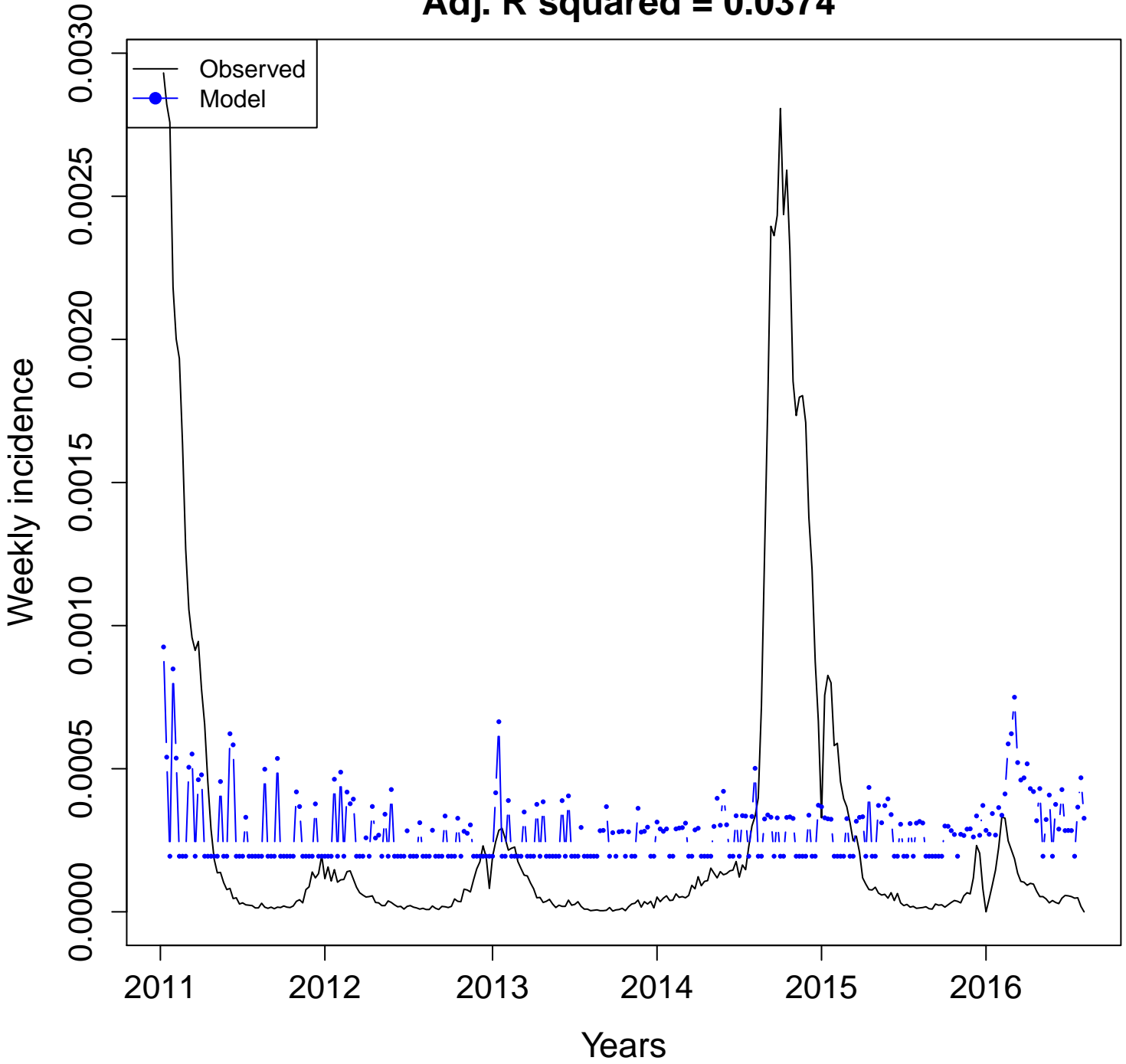


AC- dengue.sintomas
Adj. R squared = 0.0227

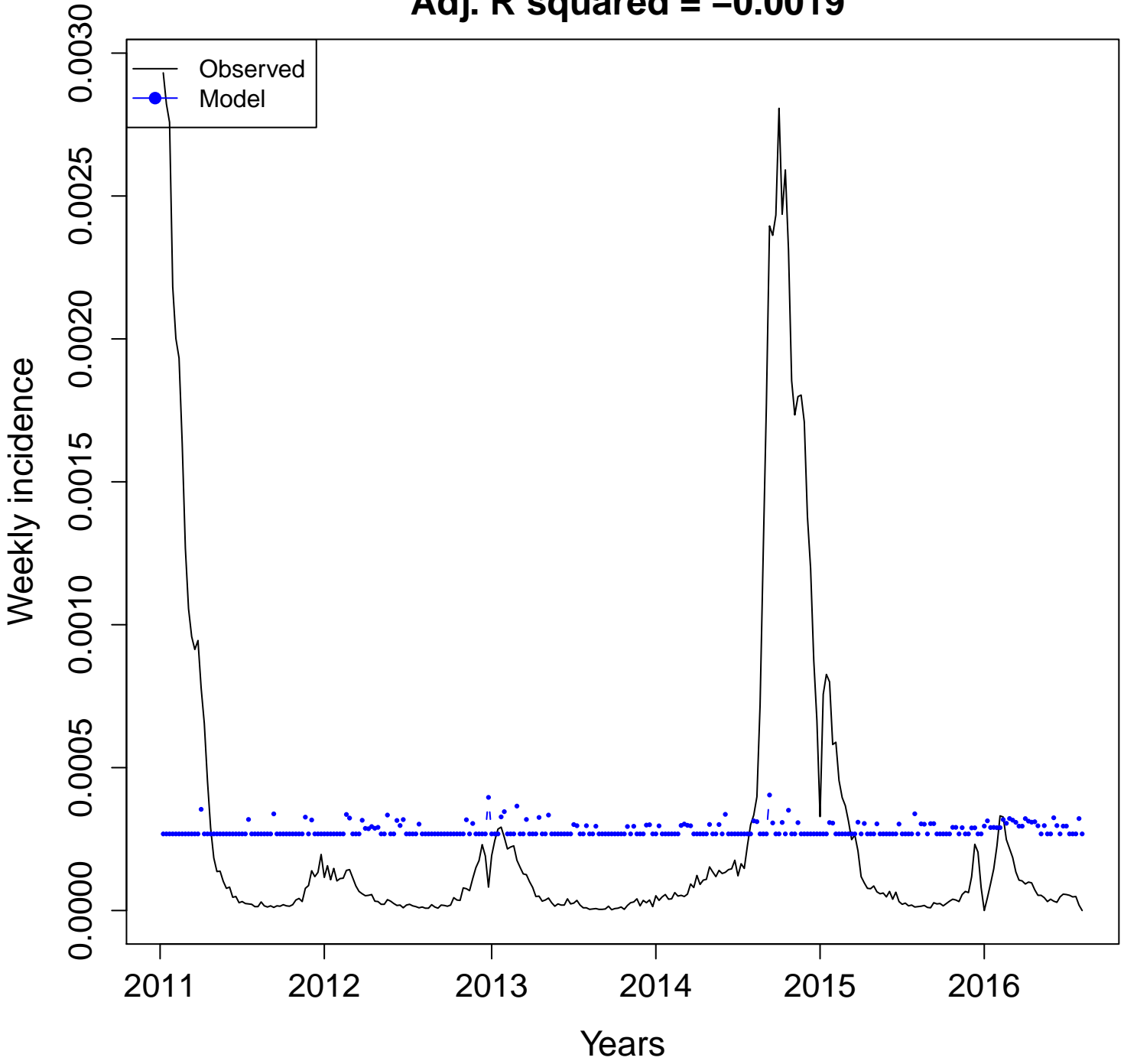


AC- mosquito

Adj. R squared = 0.0374



AC- sintomas.da.dengue
Adj. R squared = -0.0019



Alagoas (AL)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

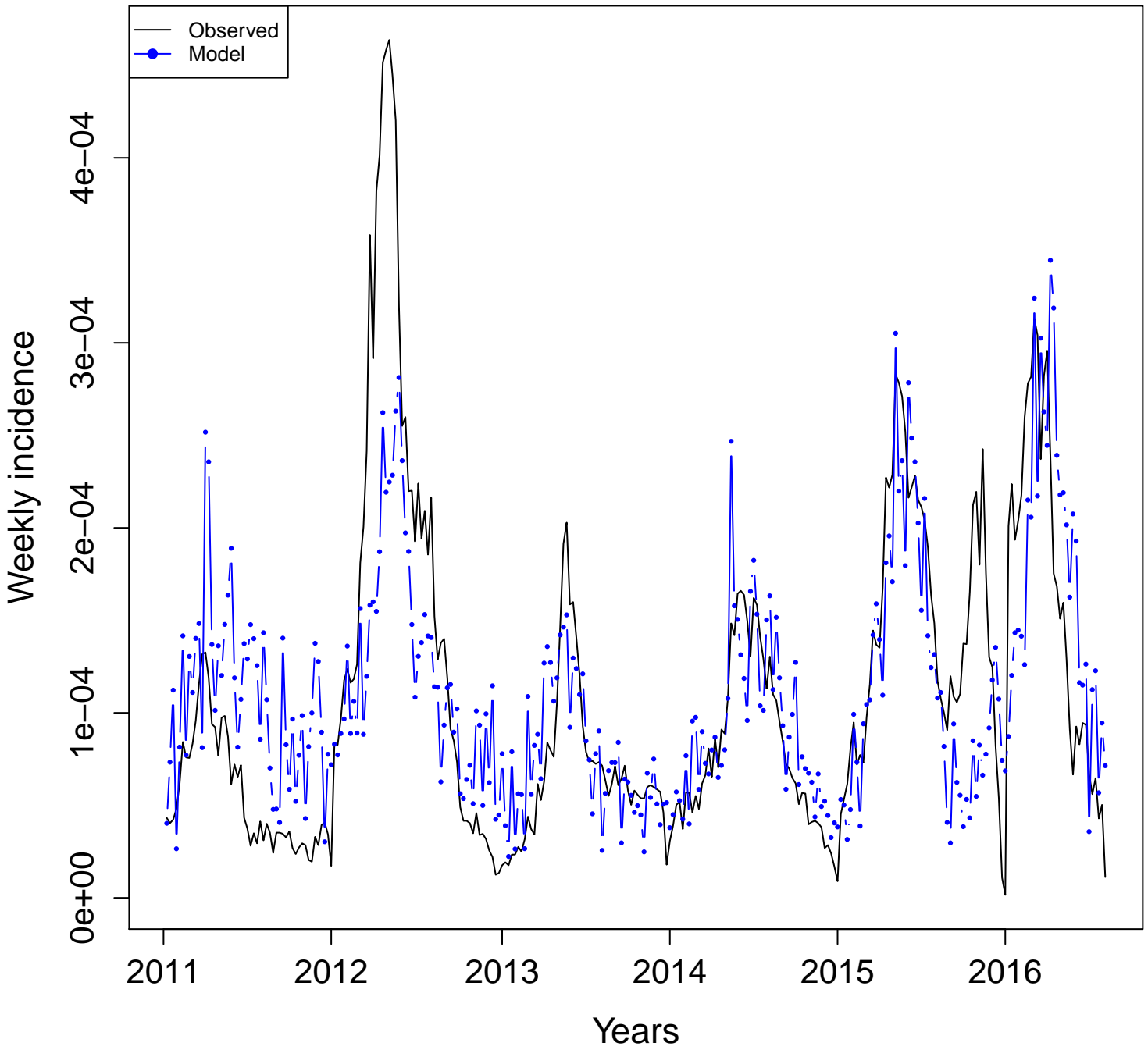
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Combined terms
Adjusted R squared

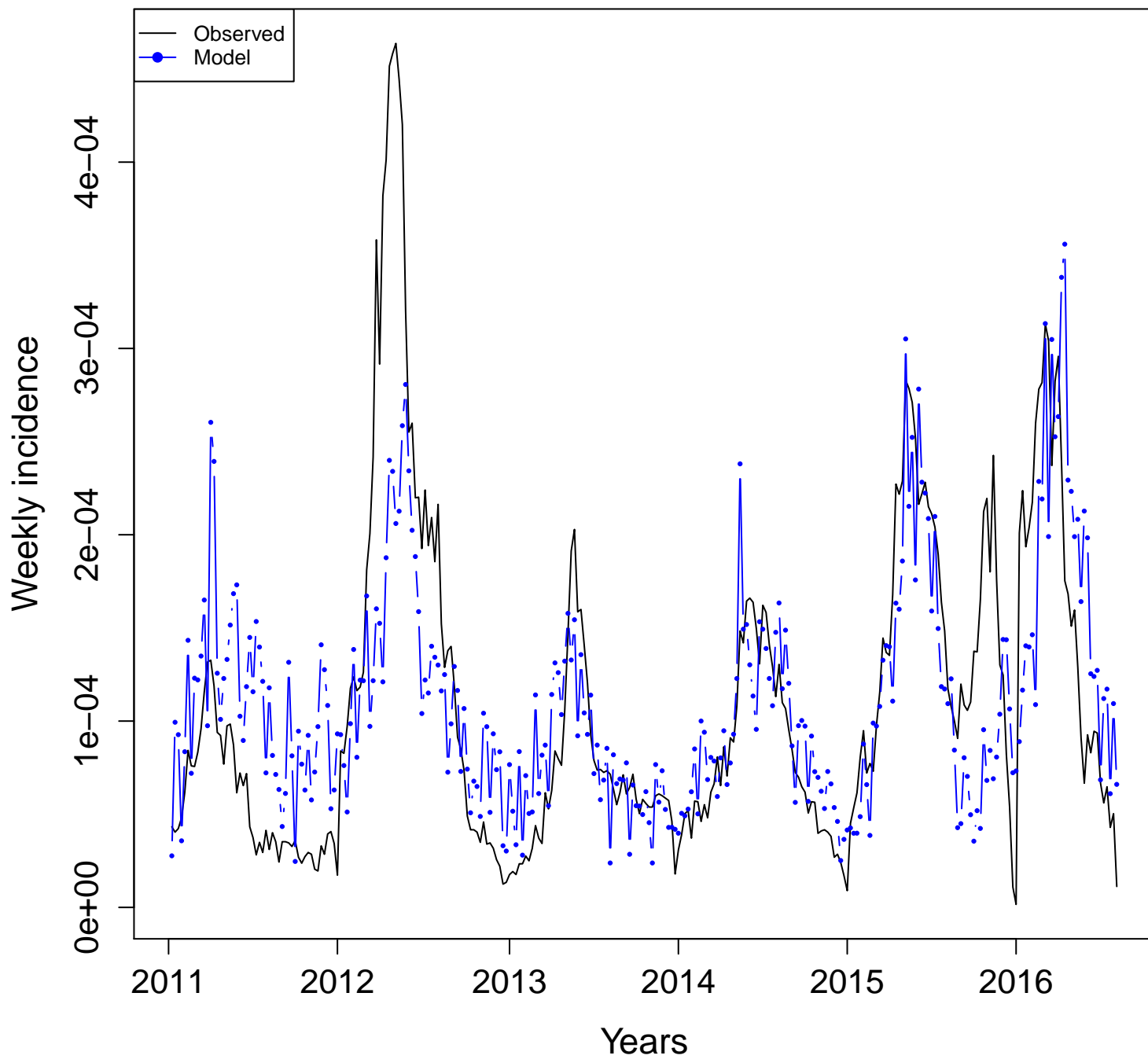
Alagoas (AL)

All
(n = 8)

BR-AL
Adj. R squared = 0.4807

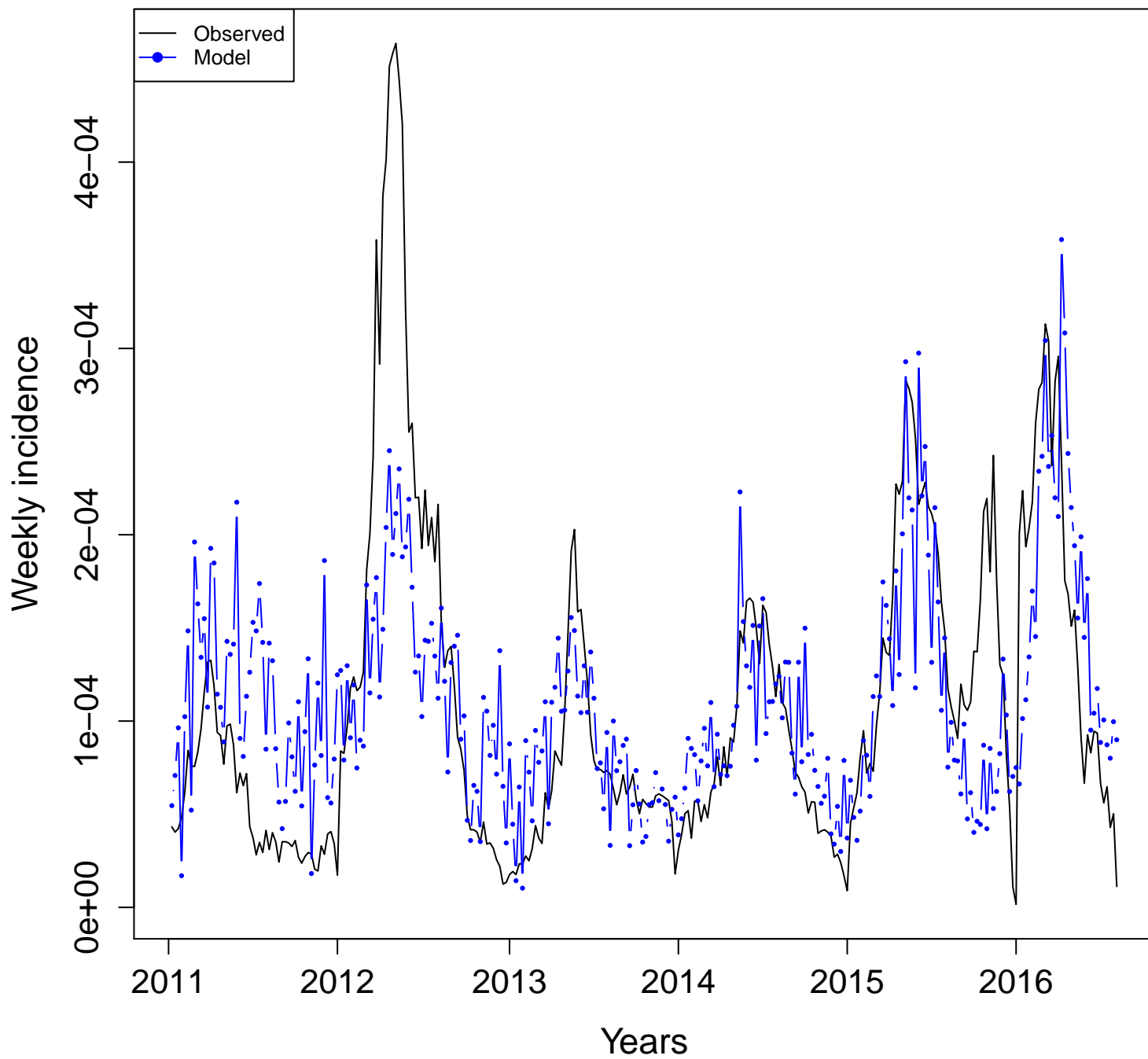


BR-AL
Adj. R squared = 0.4702



**Uncorrelated
(n = 3)**

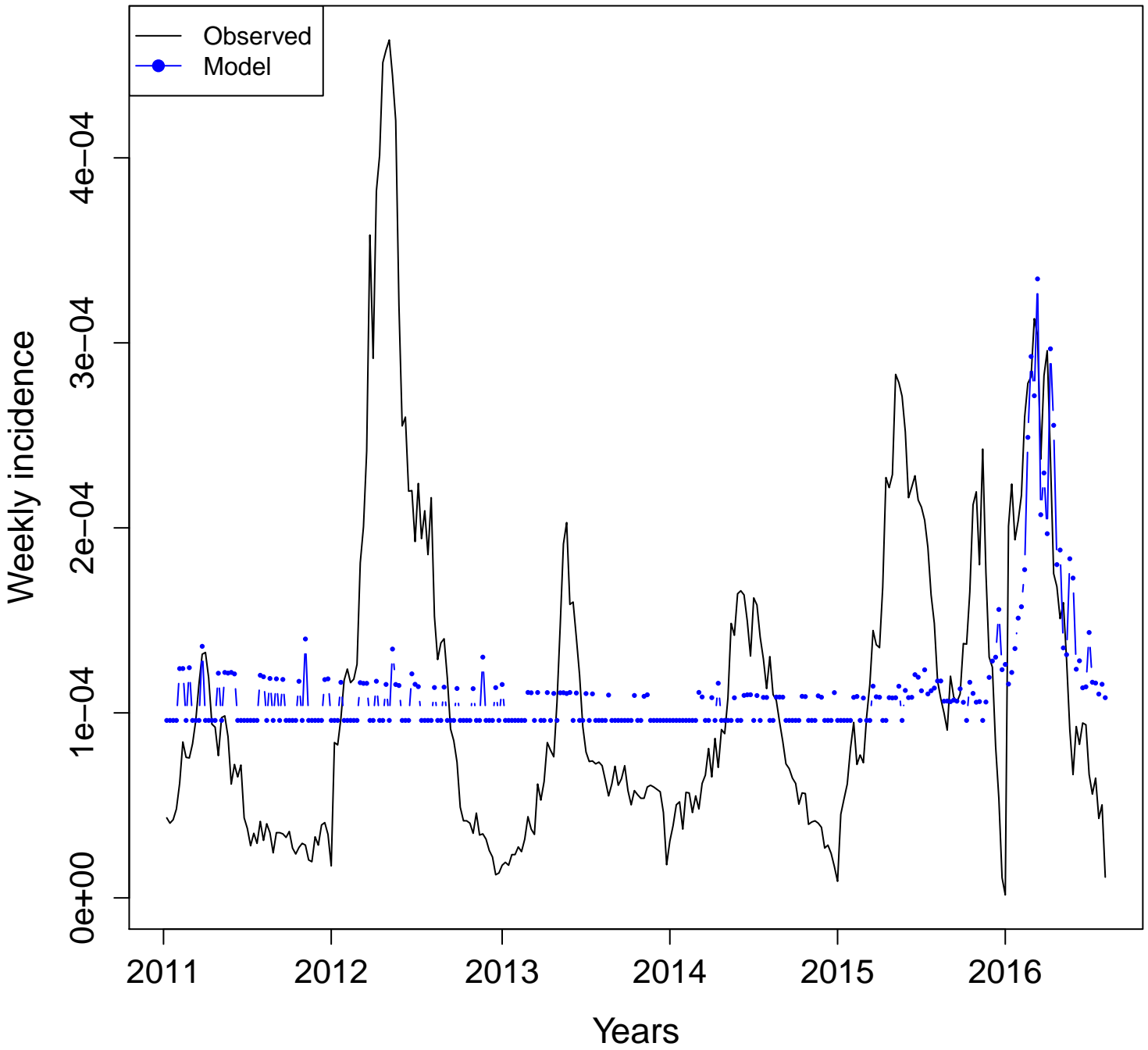
**BR-AL
Adj. R squared = 0.4182**



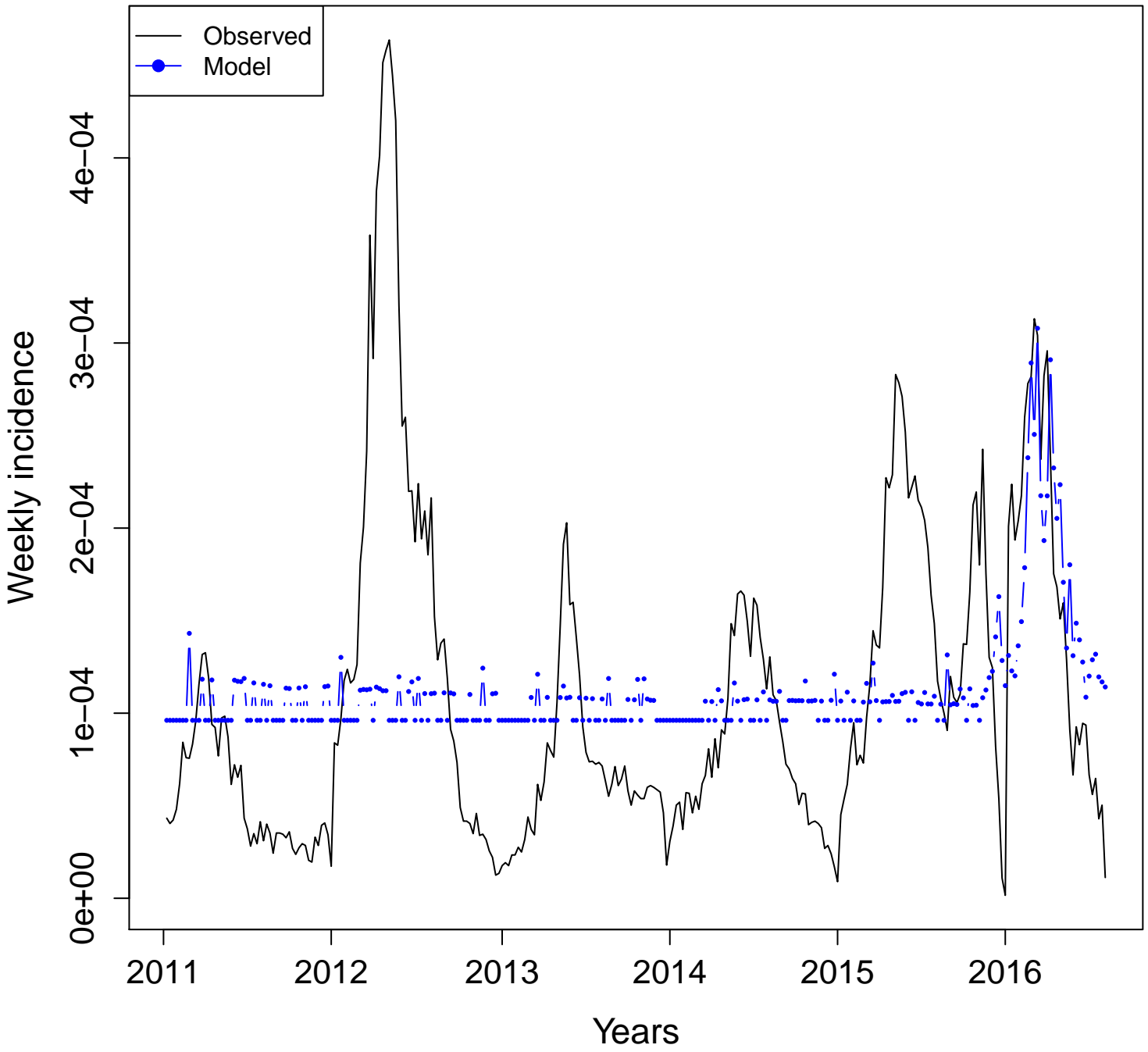
Individual terms
Adjusted R squared

Alagoas (AL)

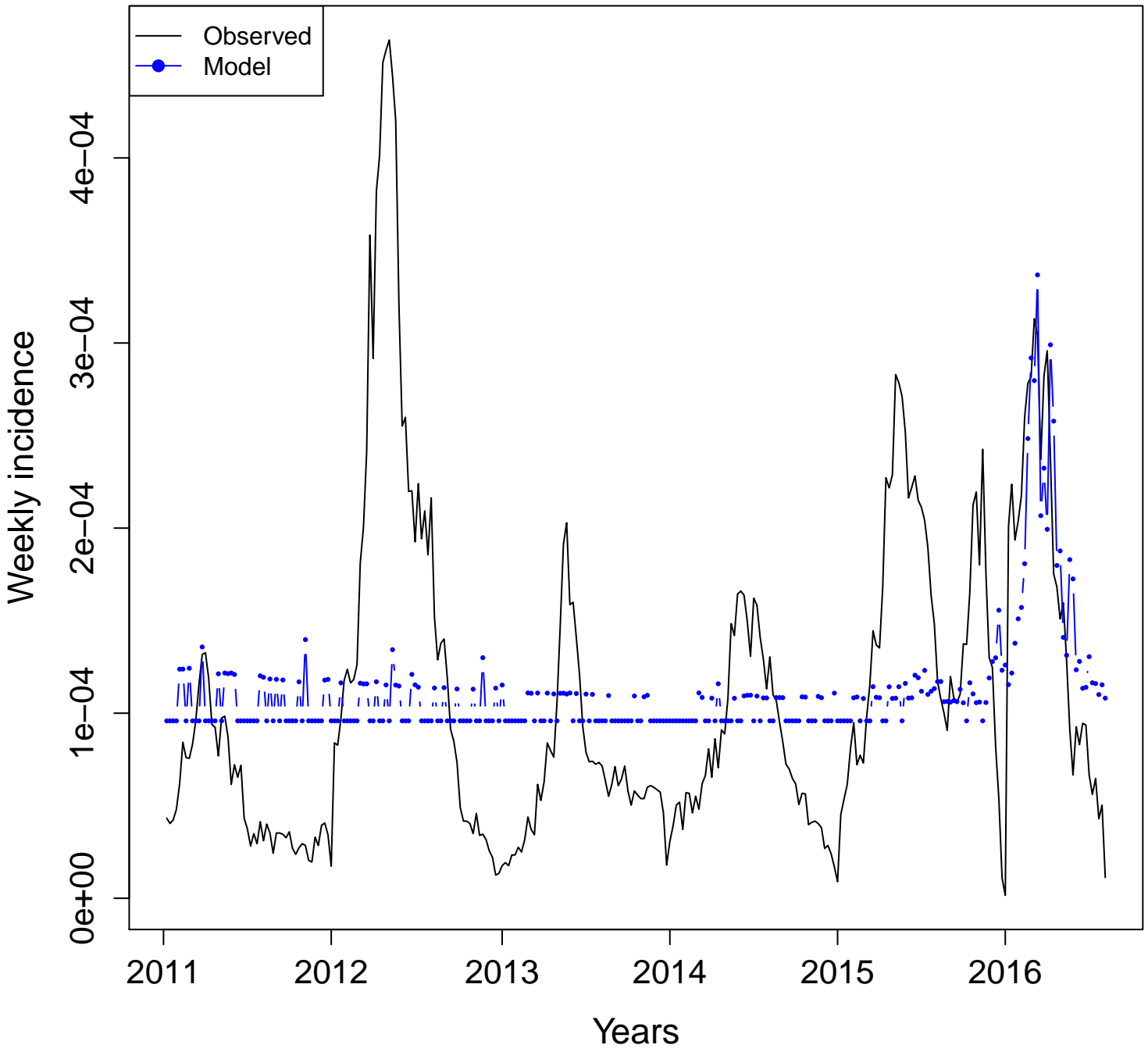
AL- aedes.aegypti
Adj. R squared = 0.1212



AL- aedes
Adj. R squared = 0.1107

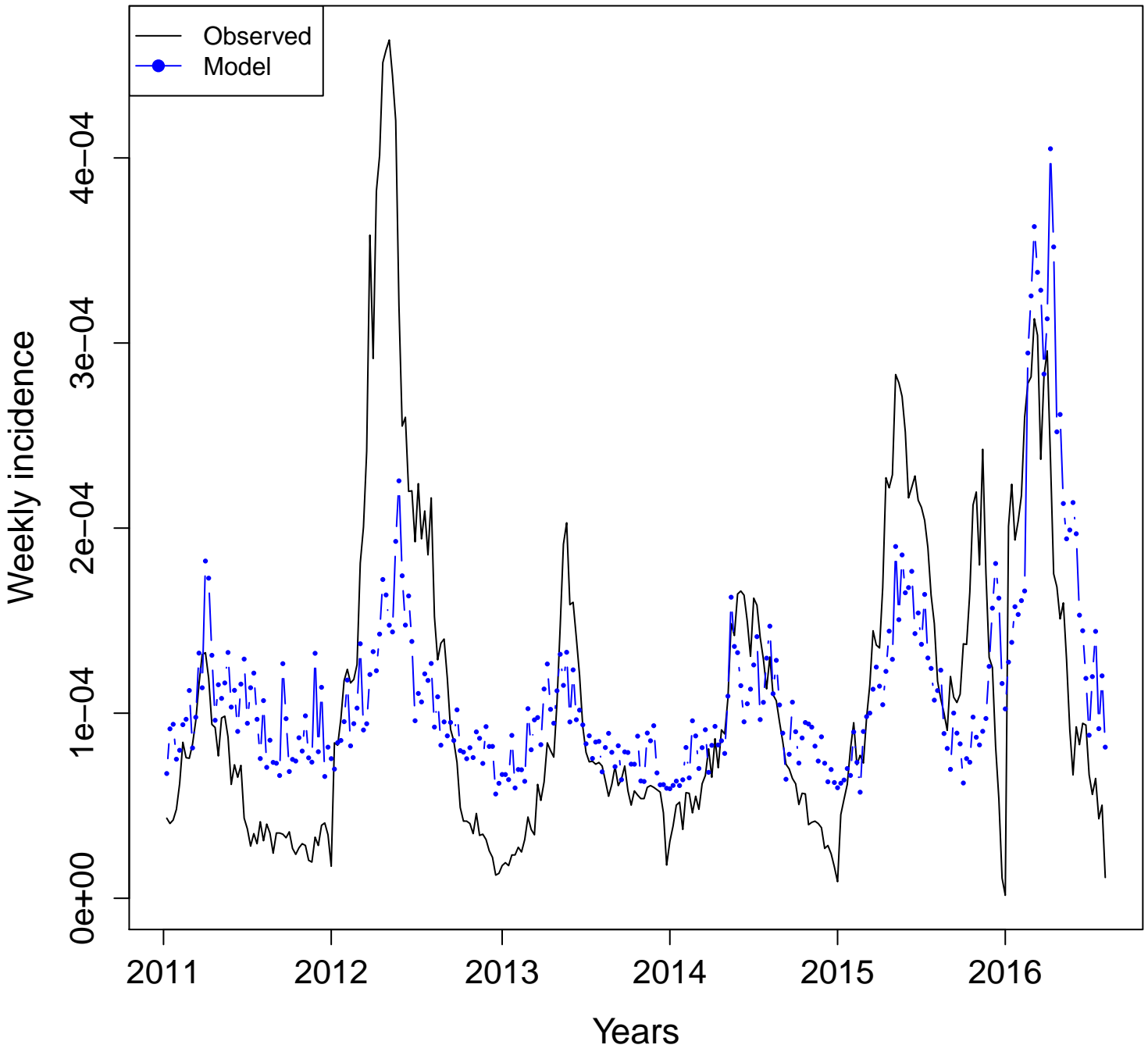


AL- aegypti
Adj. R squared = 0.1238

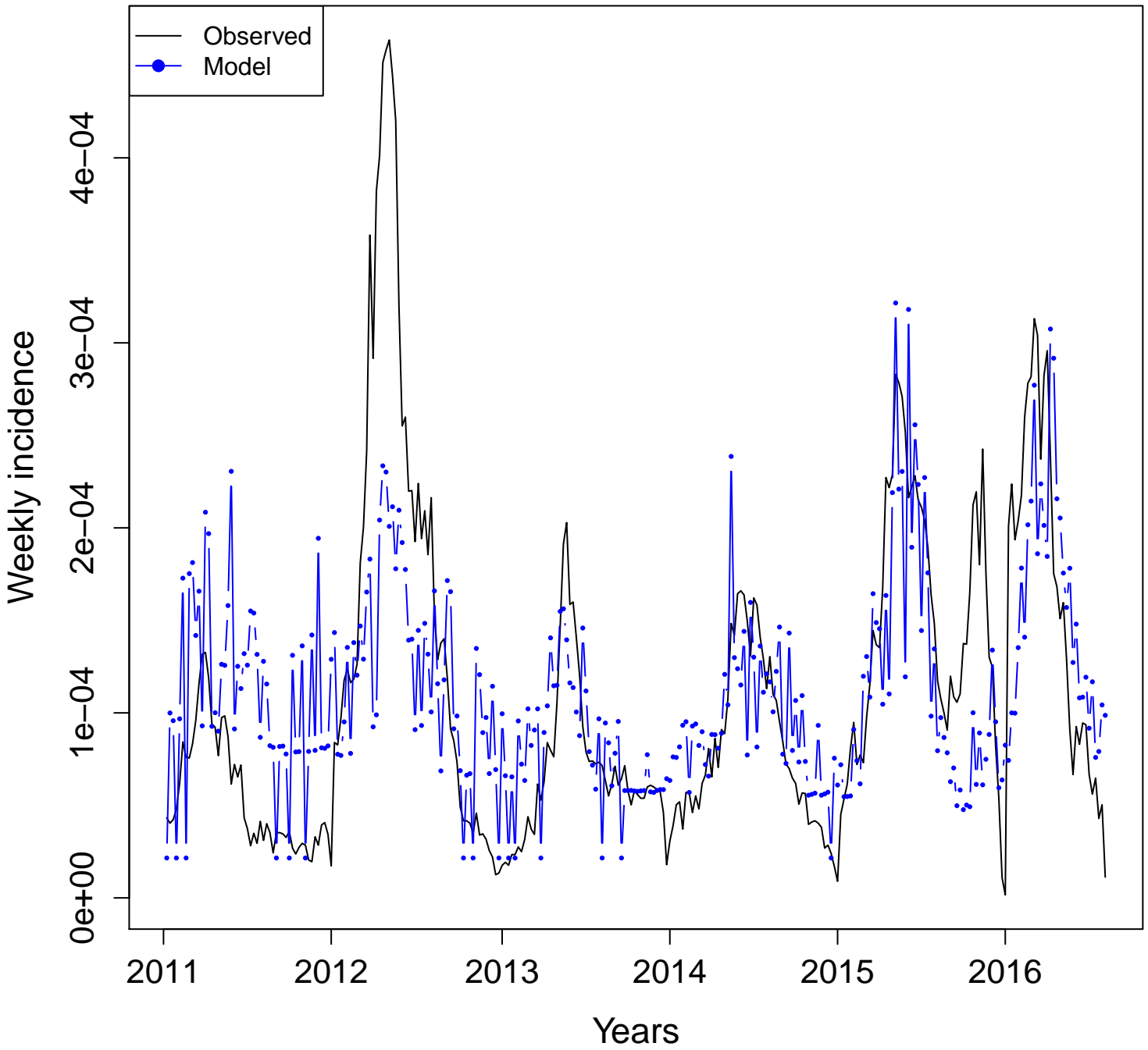


AL- dengue

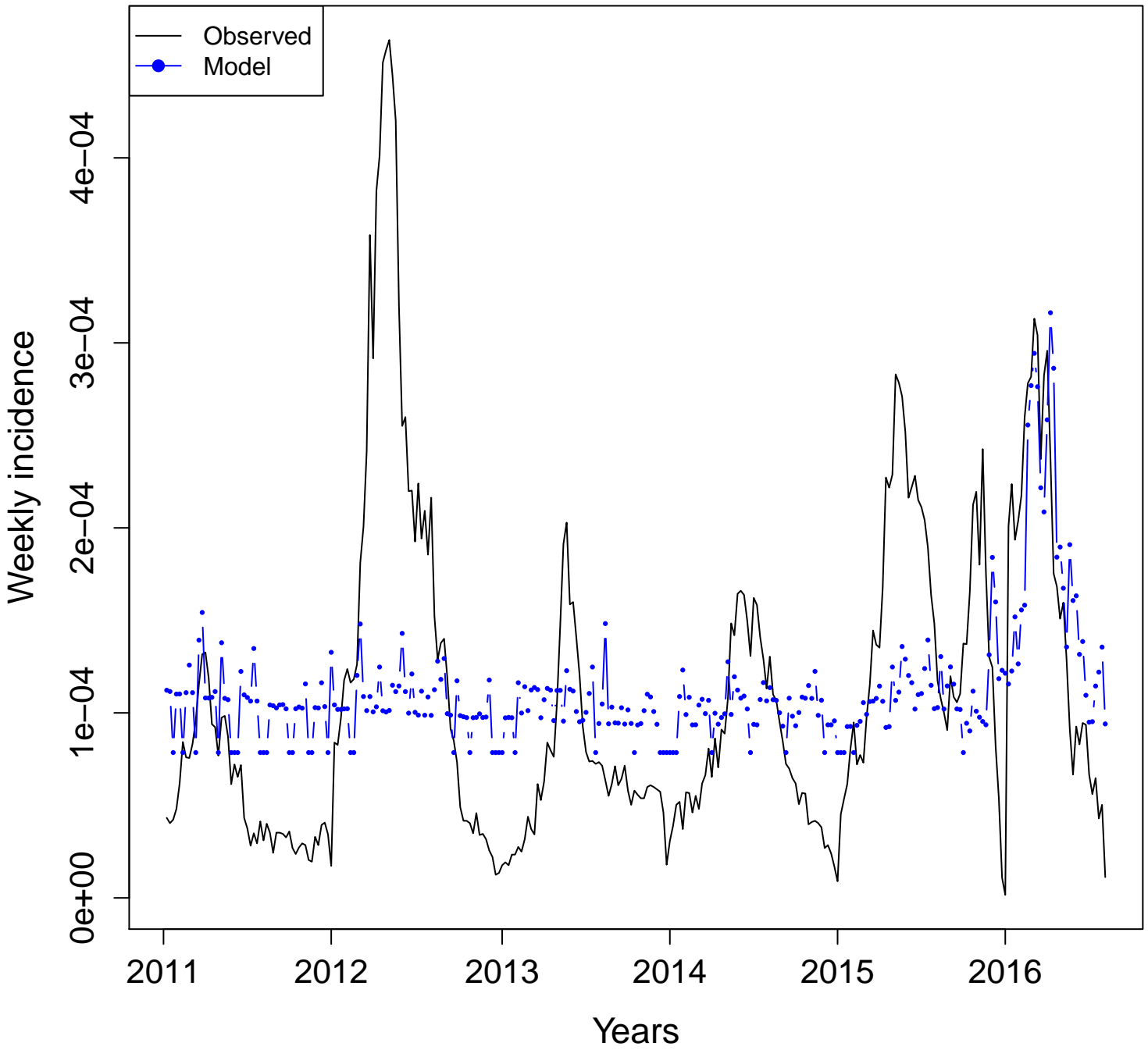
Adj. R squared = 0.3605



AL- dengue.sintomas
Adj. R squared = 0.3877

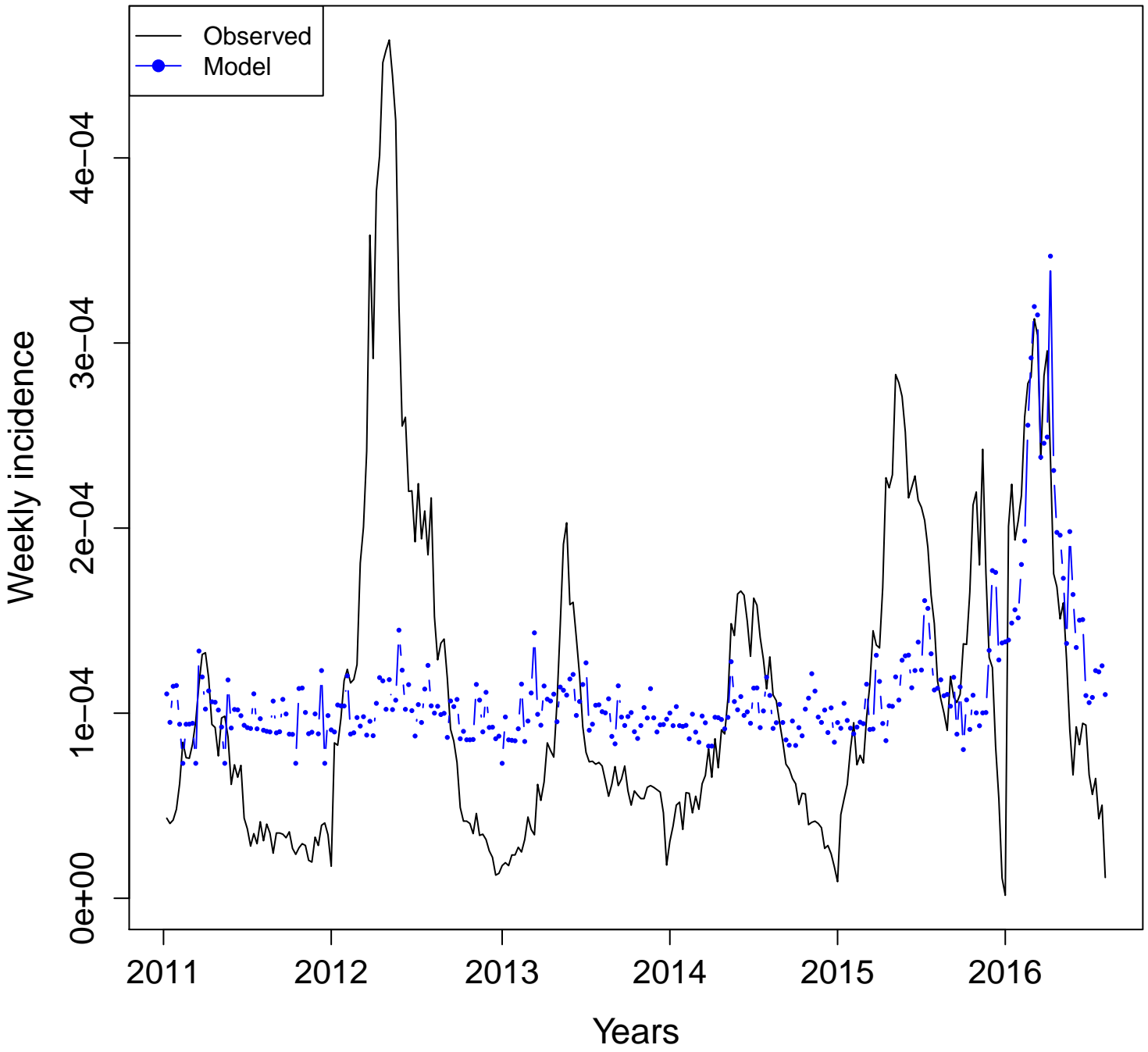


AL- mosquito.dengue
Adj. R squared = 0.1463

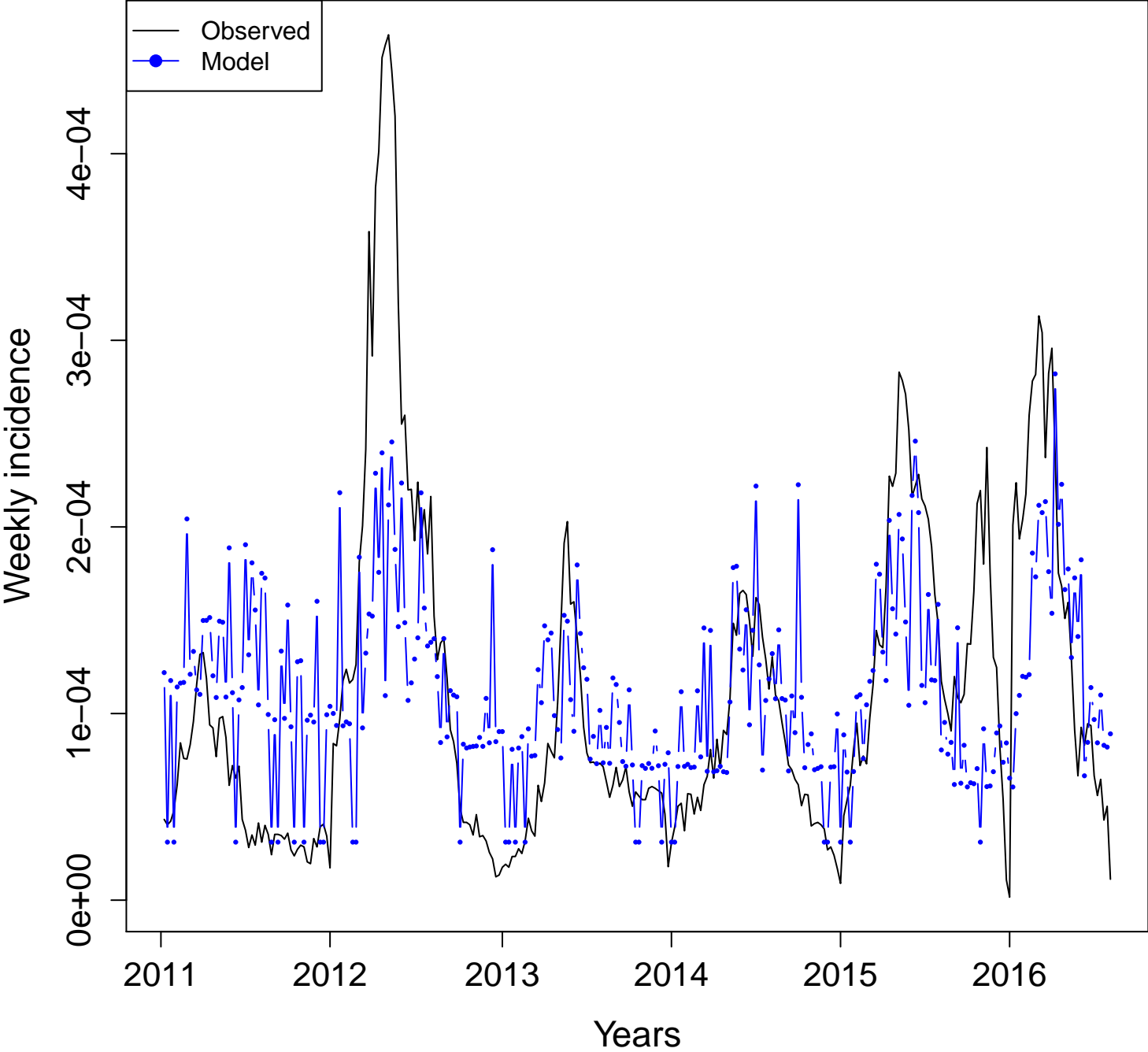


AL- mosquito

Adj. R squared = 0.1693



AL- sintomas.da.dengue
Adj. R squared = 0.3071



Amazonas (AM)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

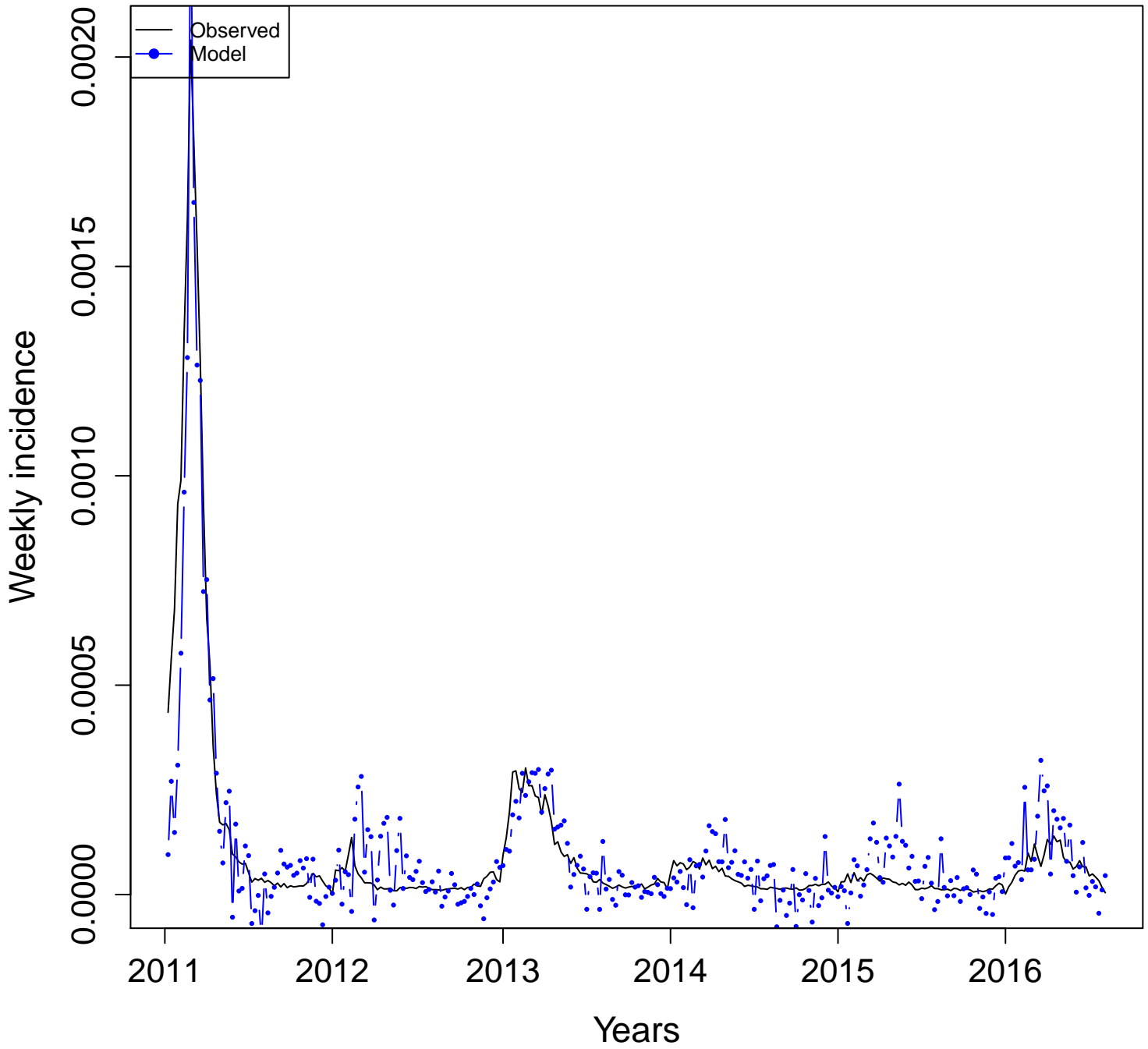
- **Combined terms:**
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Combined terms
Adjusted R squared

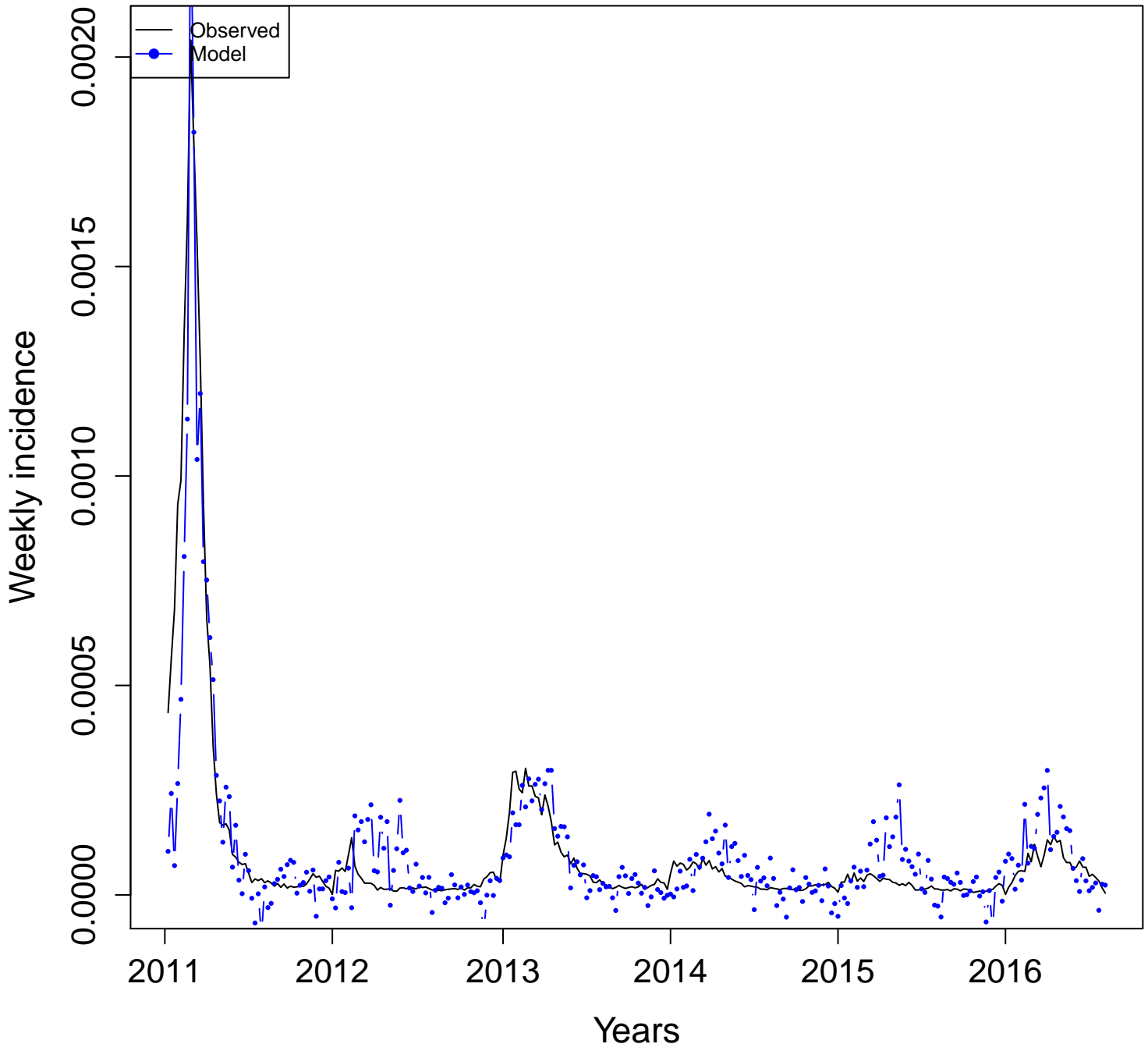
Amazonas (AM)

All
(n = 9)

BR-AM
Adj. R squared = 0.8469

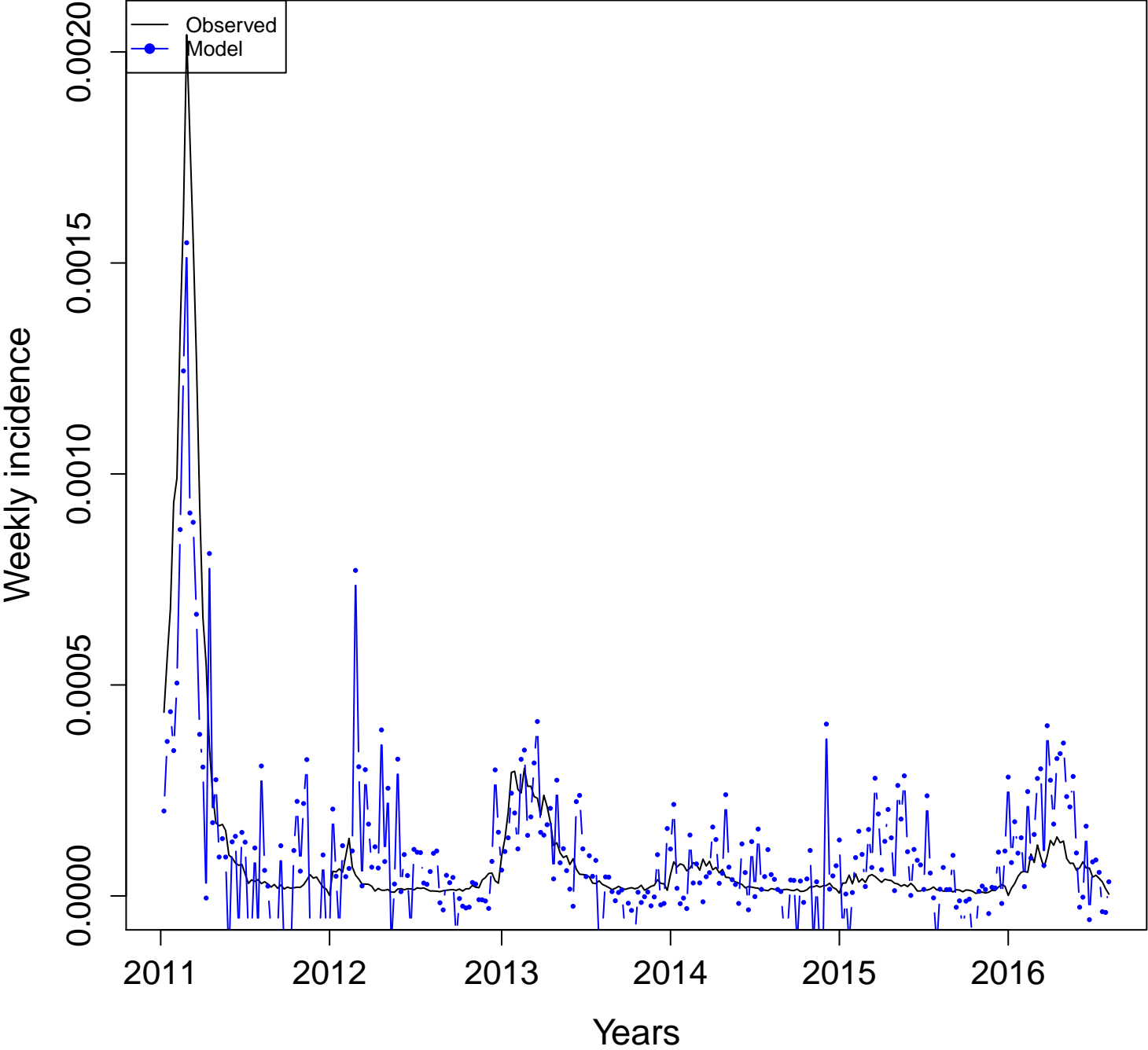


BR-AM
Adj. R squared = 0.8205



**Uncorrelated
(n = 2)**

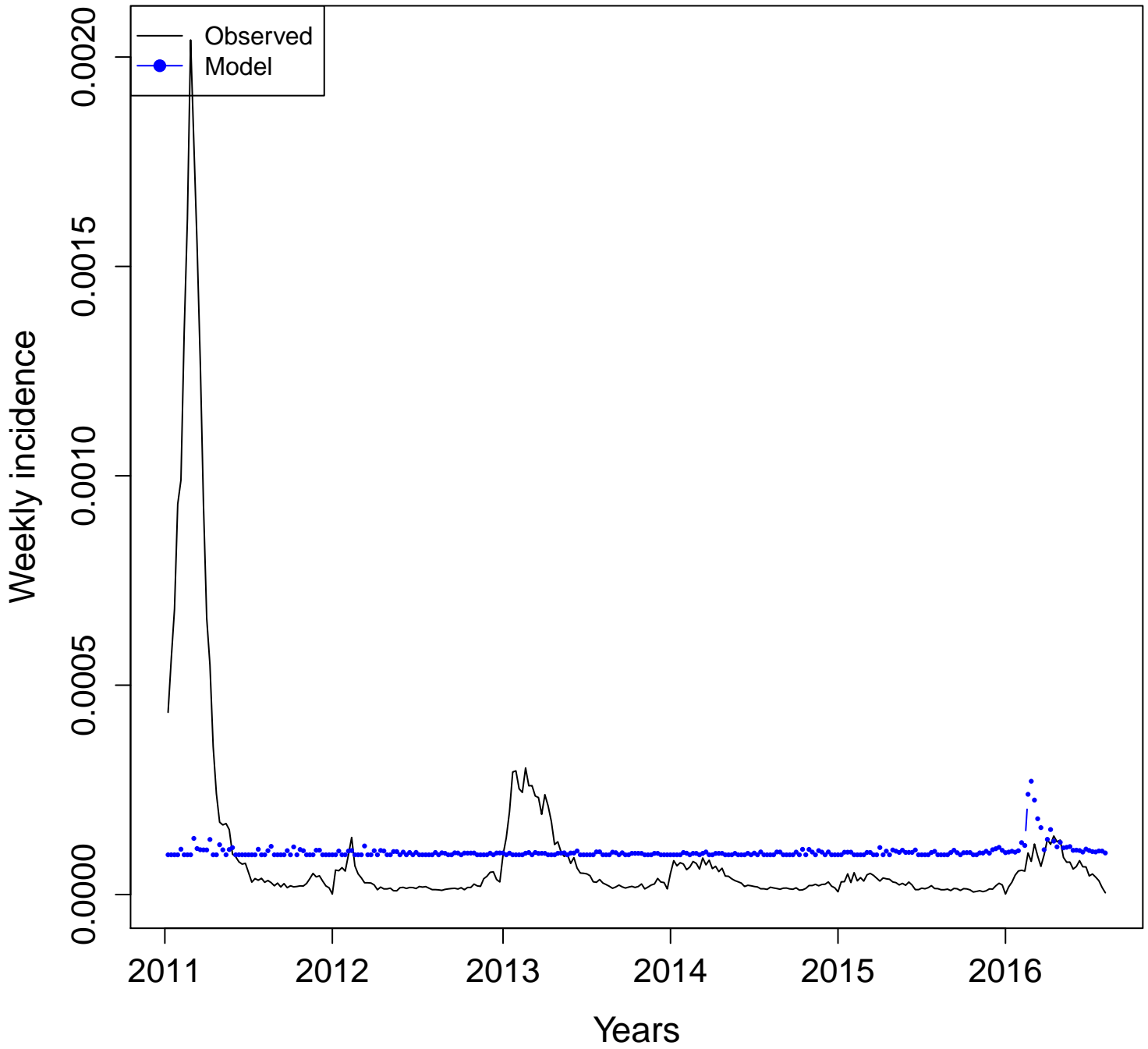
**BR-AM
Adj. R squared = 0.59**



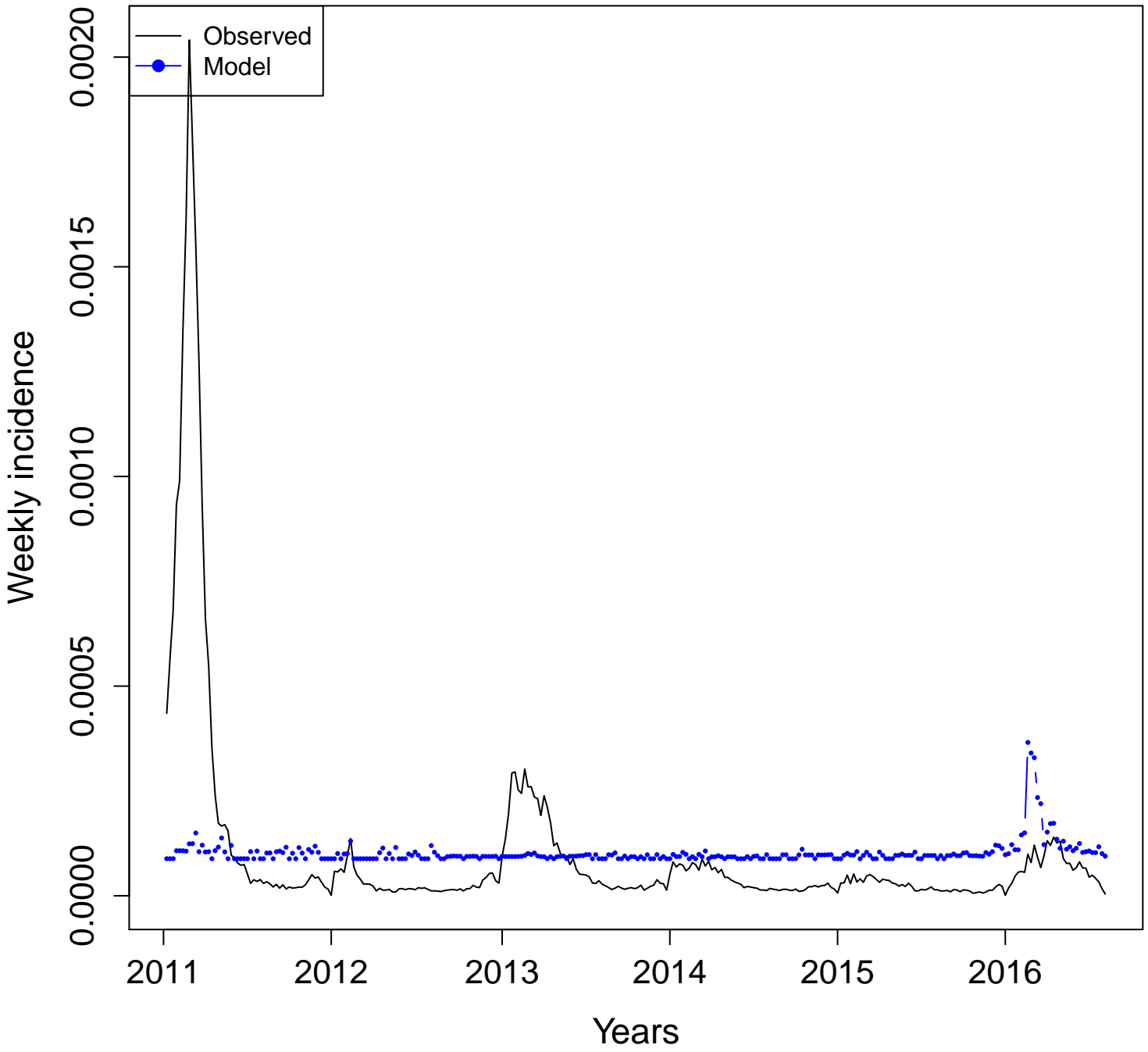
Individual terms
Adjusted R squared

Amazonas (AM)

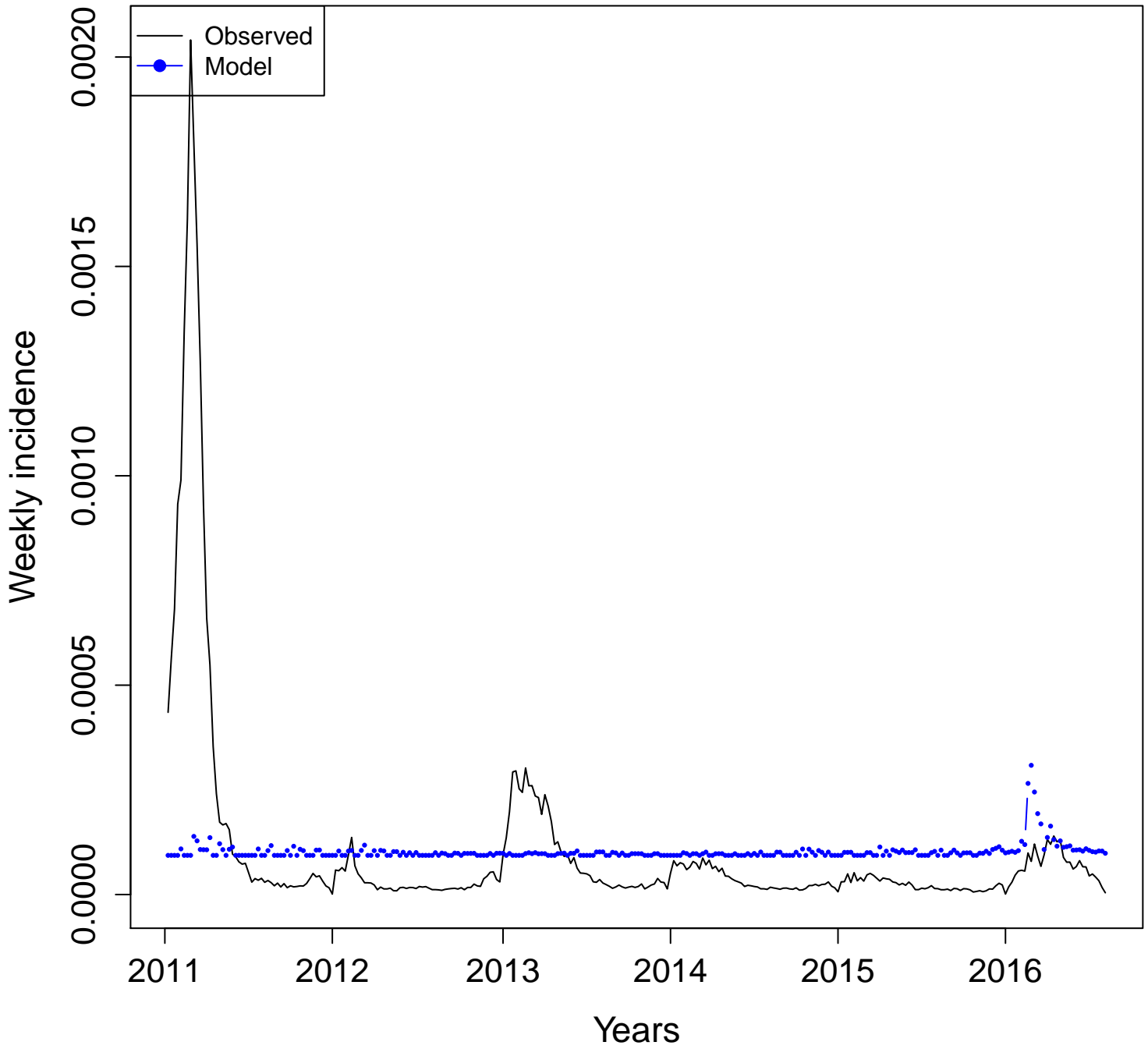
AM- aedes.aegypti
Adj. R squared = 0.0013



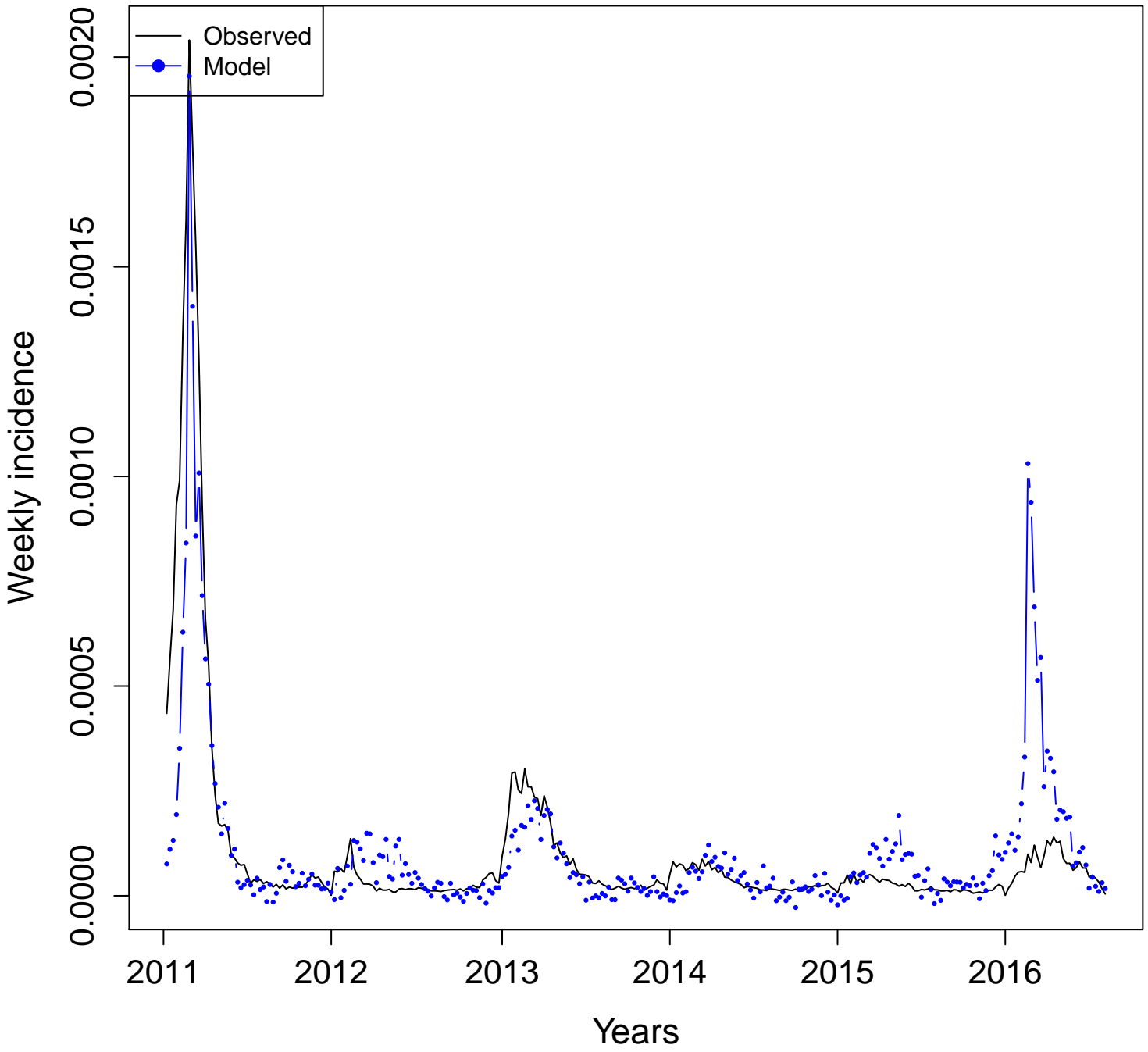
AM- aedes
Adj. R squared = 0.0104



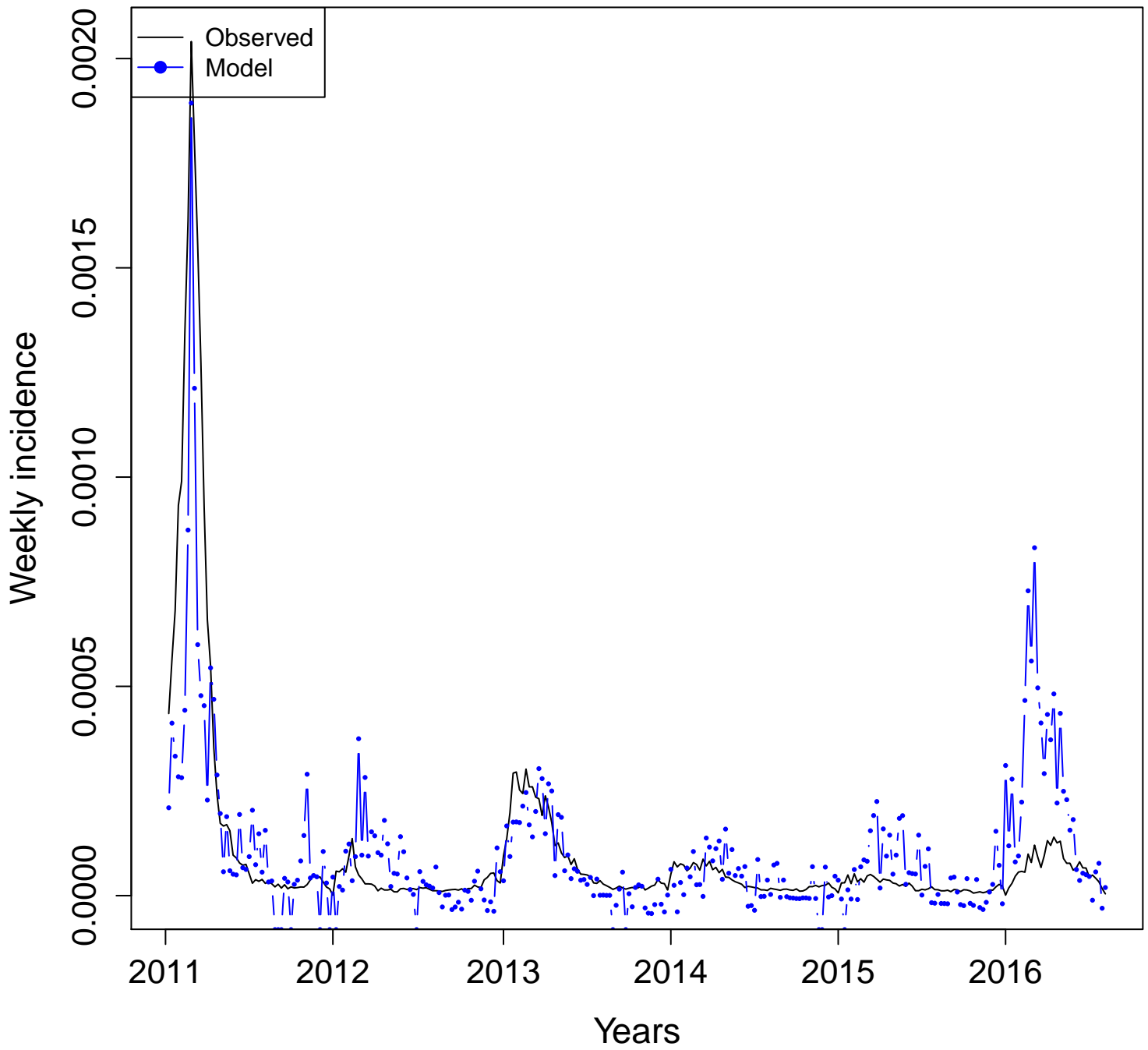
AM- aegypti
Adj. R squared = 0.0033



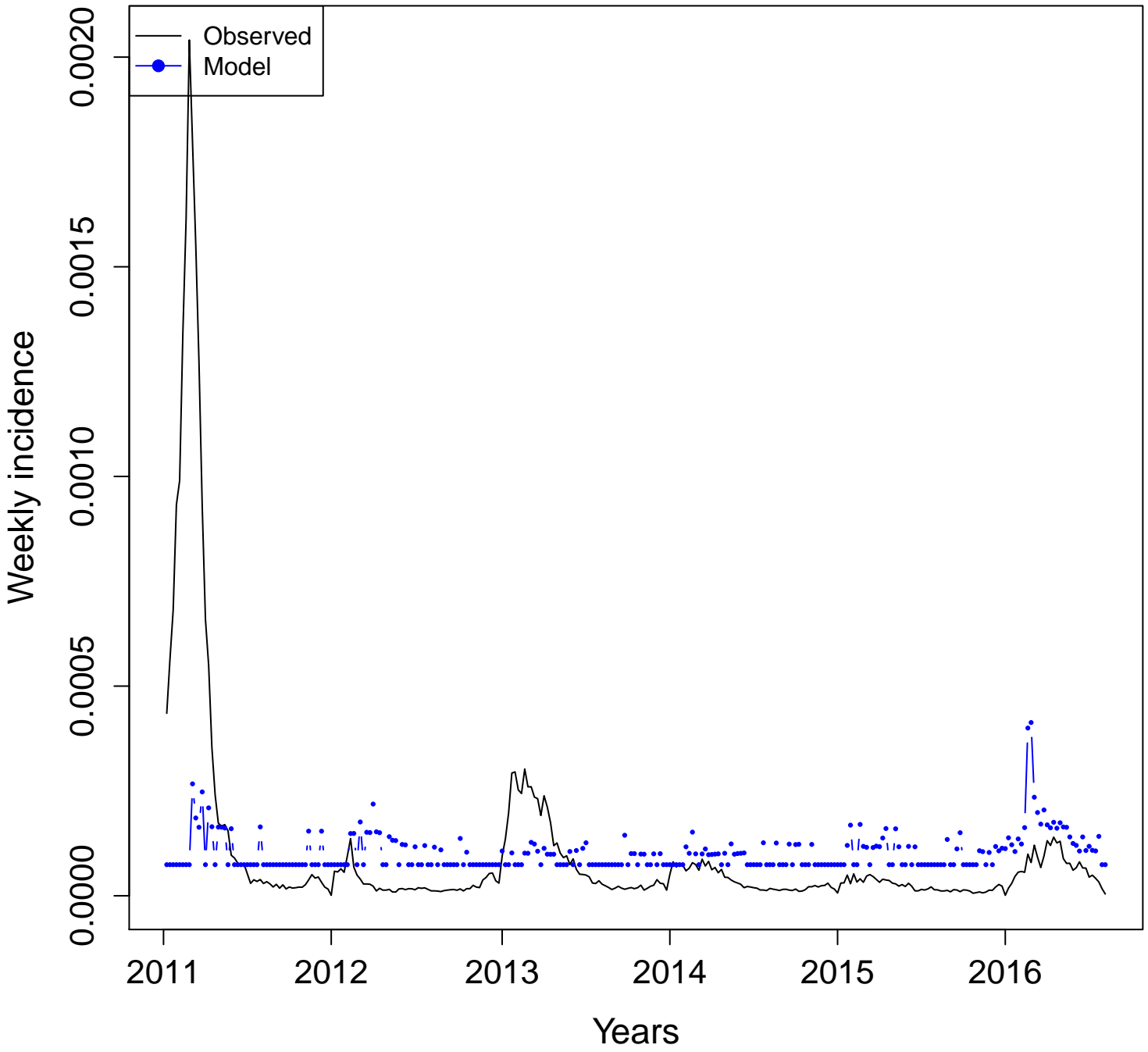
AM- dengue
Adj. R squared = 0.6458



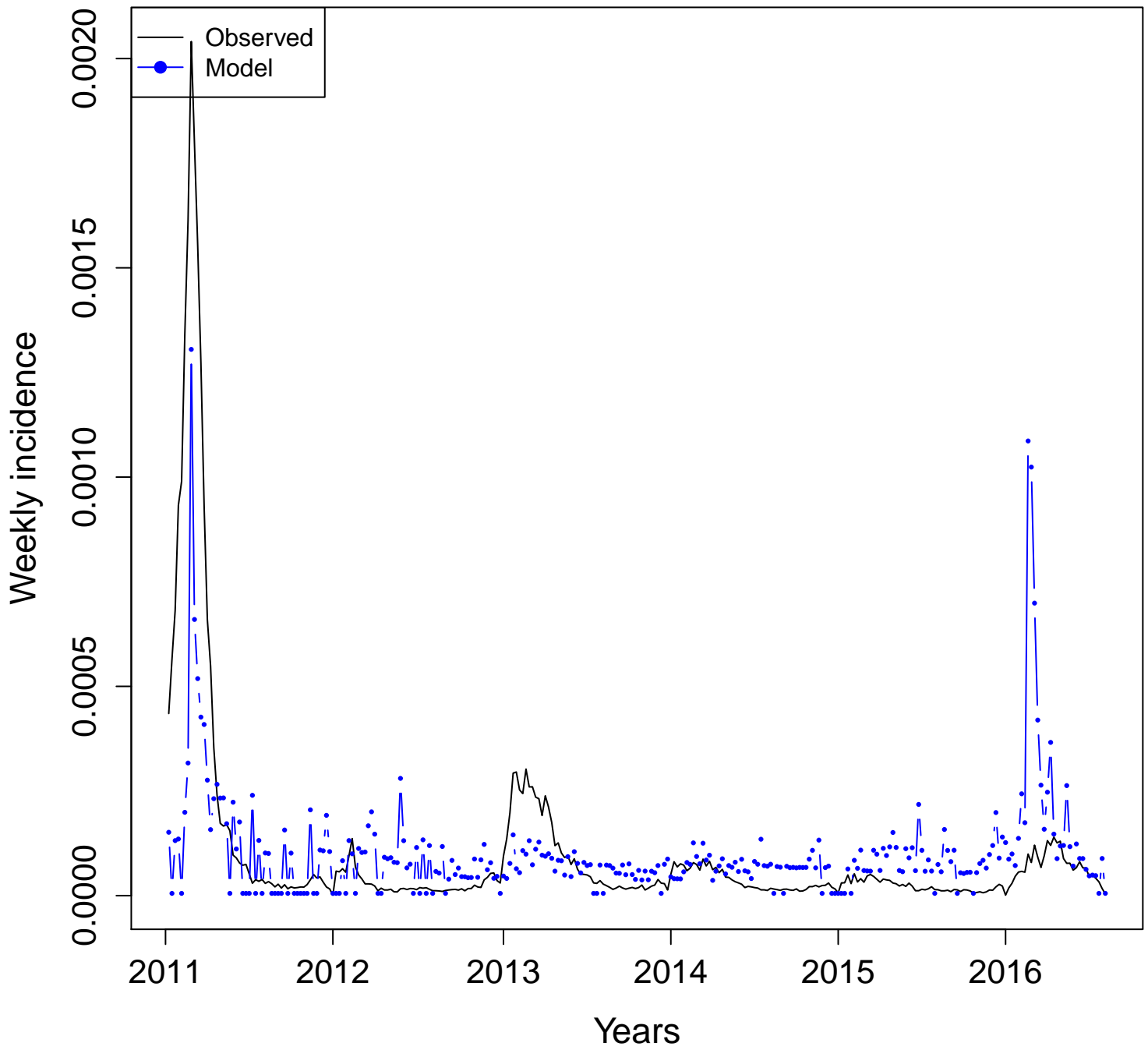
AM- dengue.sintomas
Adj. R squared = 0.5616



AM- dengue.virus
Adj. R squared = 0.0266

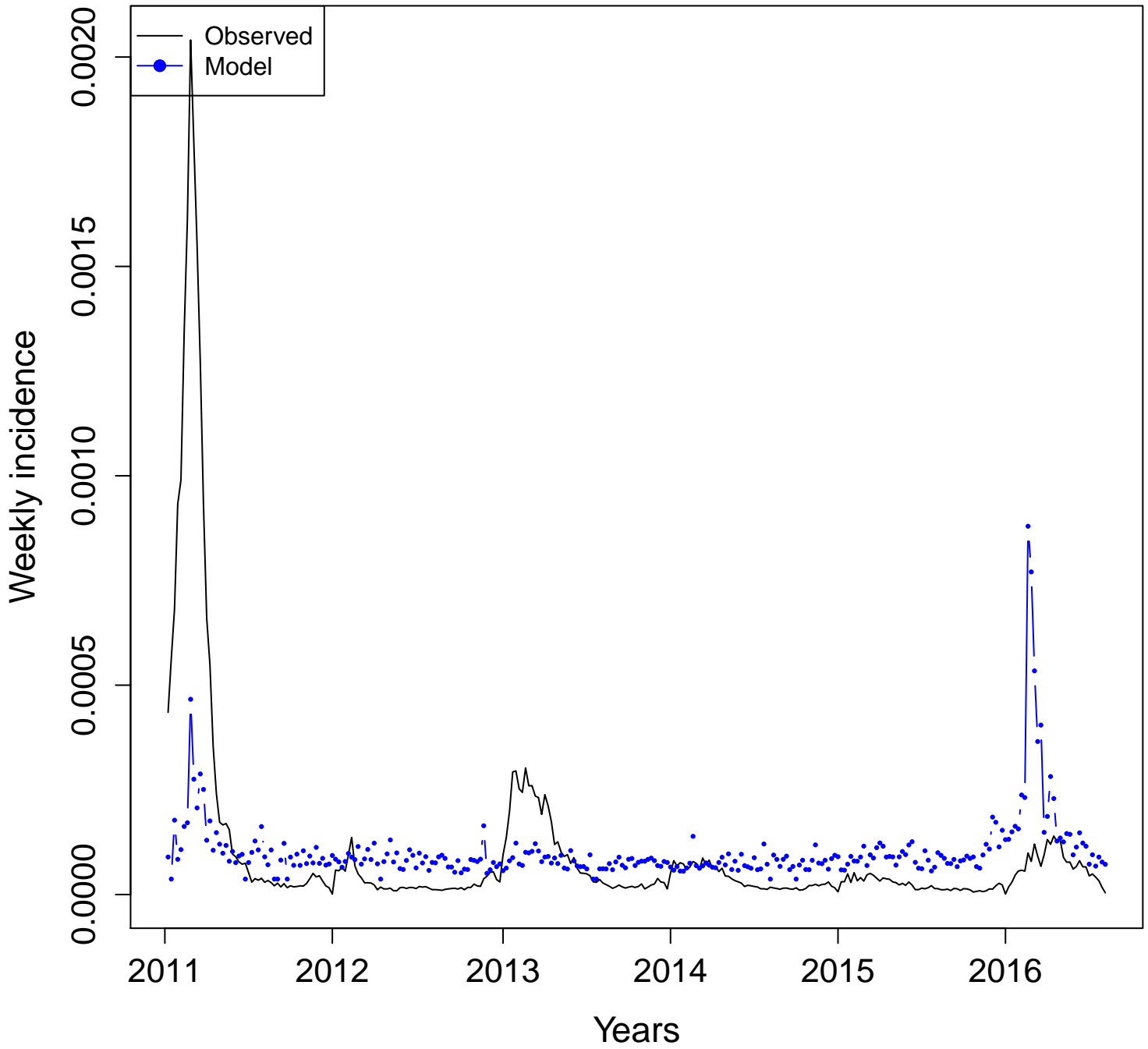


AM- mosquito.dengue
Adj. R squared = 0.2934

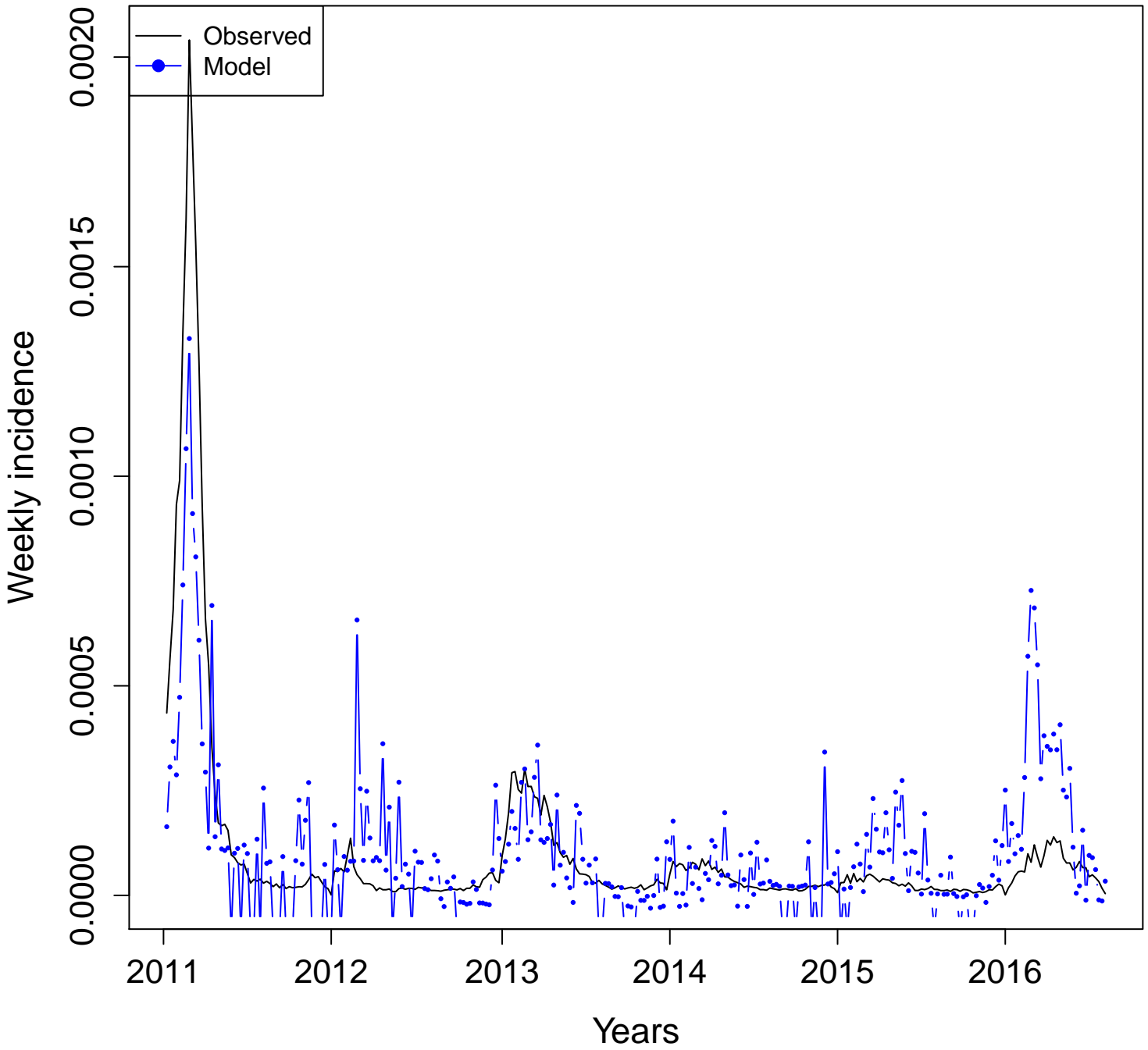


AM- mosquito

Adj. R squared = 0.1024



AM- sintomas.da.dengue
Adj. R squared = 0.5275



Amapá (AP)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

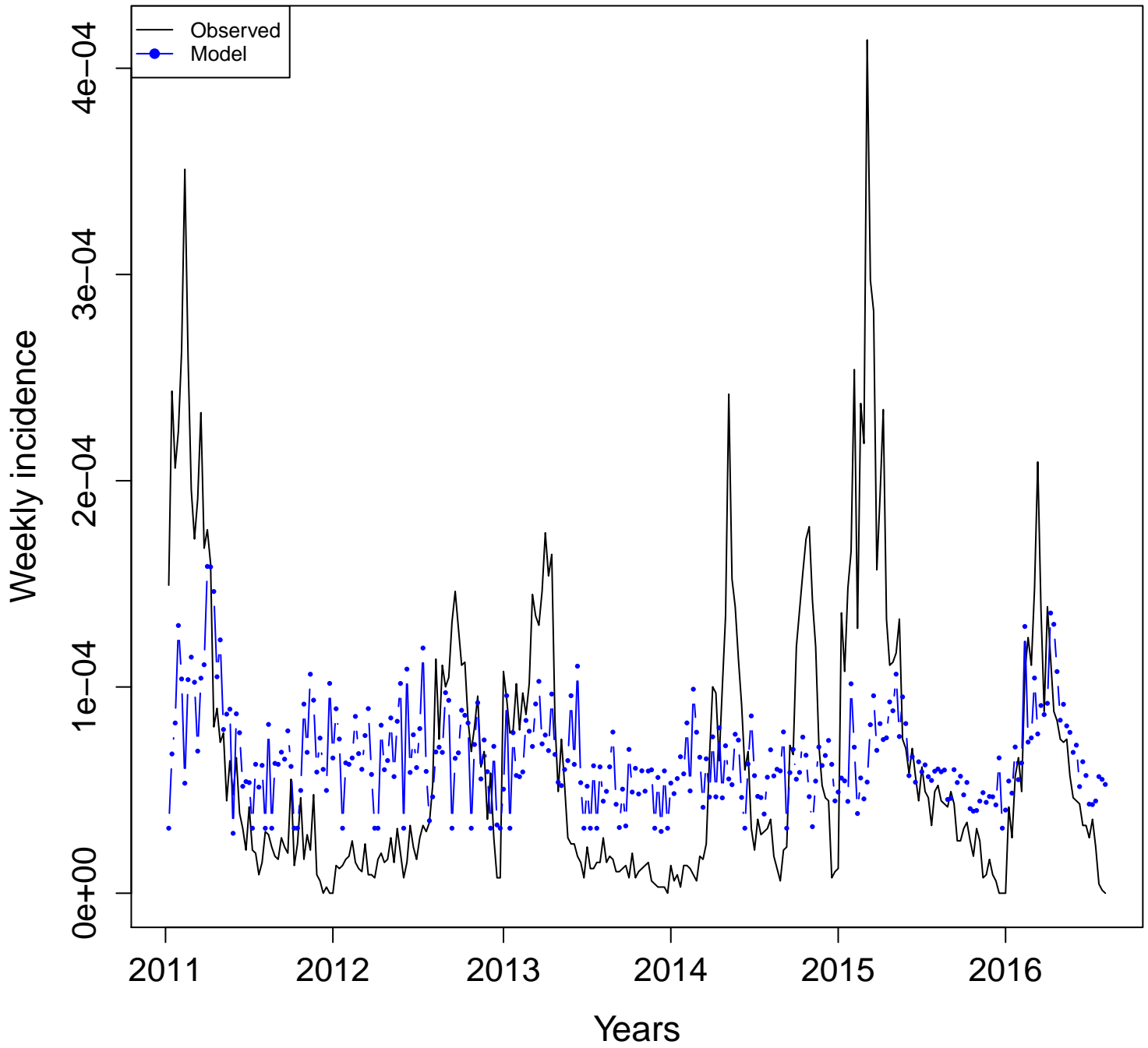
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Combined terms
Adjusted R squared

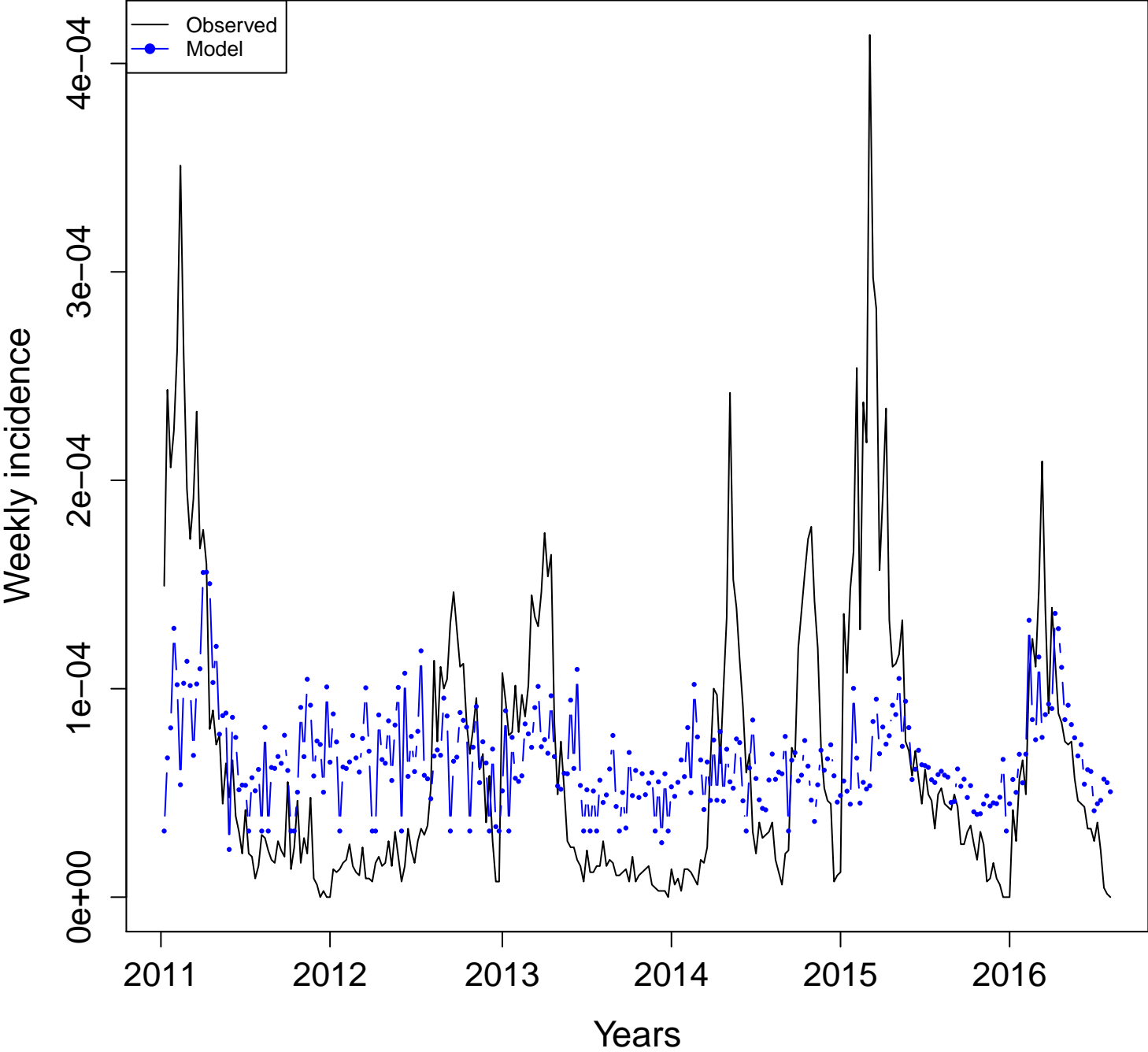
Amapá (AP)

All
(n = 7)

BR-AP
Adj. R squared = 0.0957

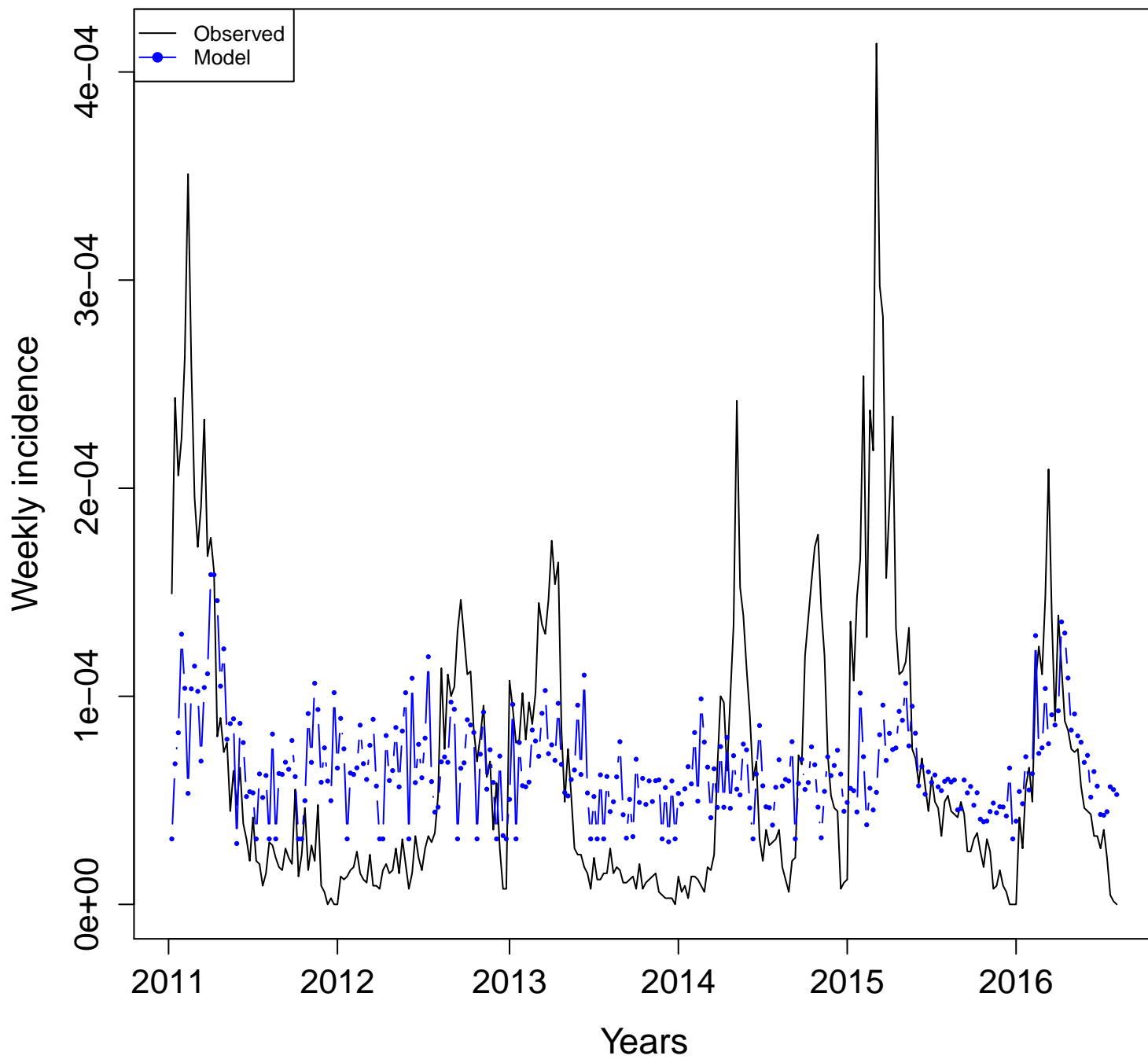


BR-AP
Adj. R squared = 0.1032



**Uncorrelated
(n = 6)**

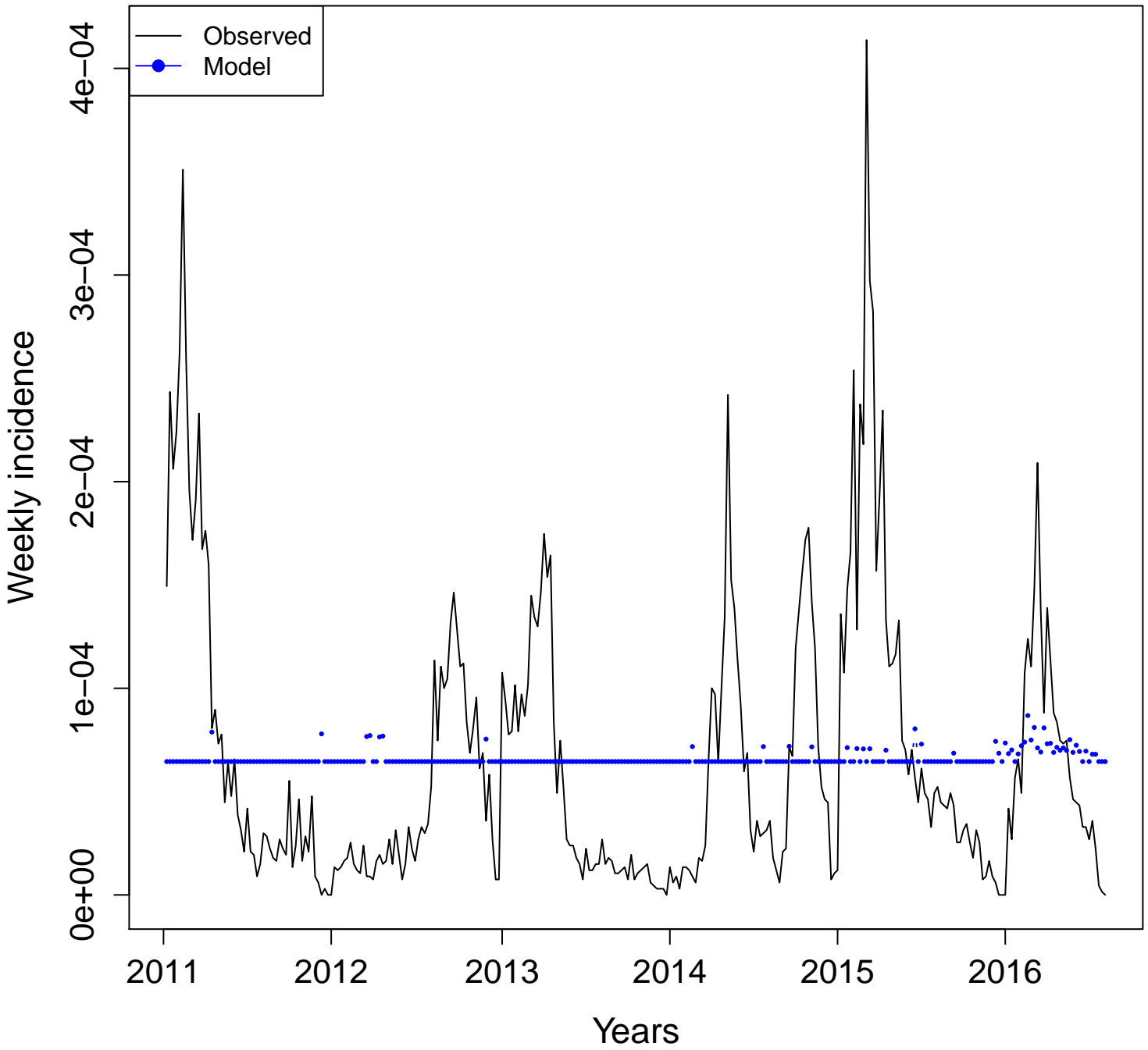
**BR-AP
Adj. R squared = 0.0988**



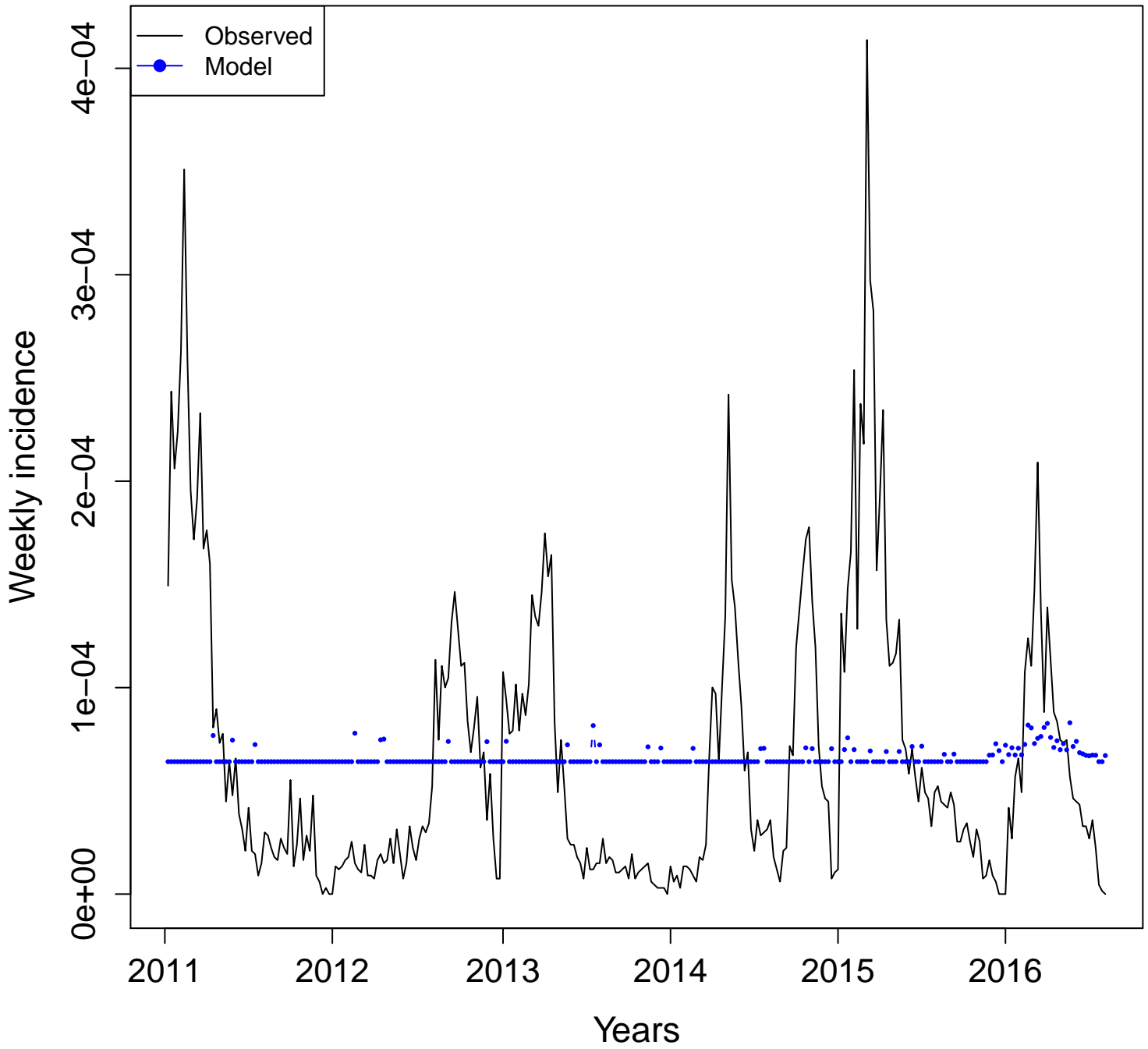
Individual terms
Adjusted R squared

Amapá (AP)

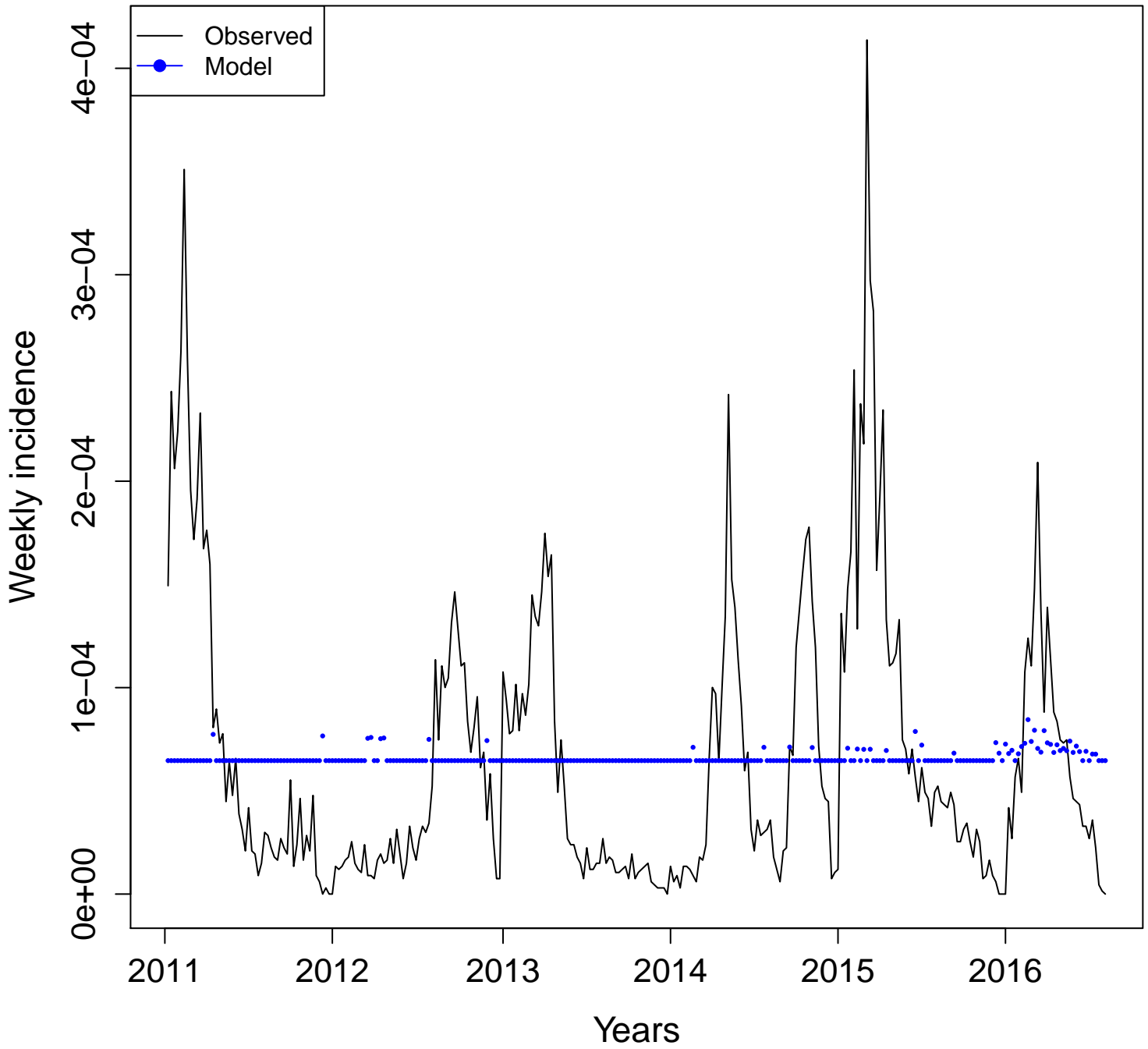
AP- aedes.aegypti
Adj. R squared = $-9e-04$



AP- aedes
Adj. R squared = $-3e-04$

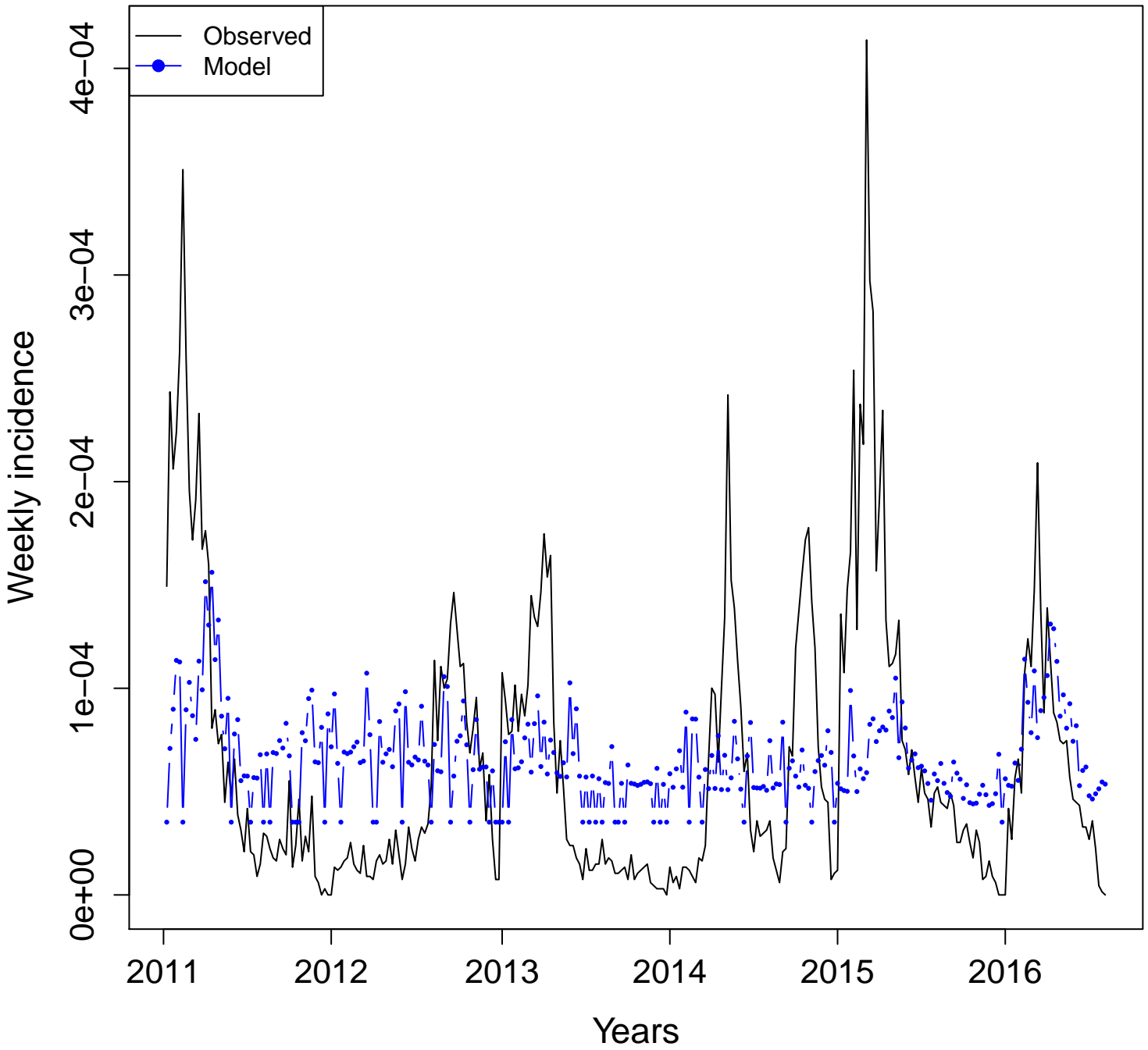


AP- aegypti
Adj. R squared = -0.0013

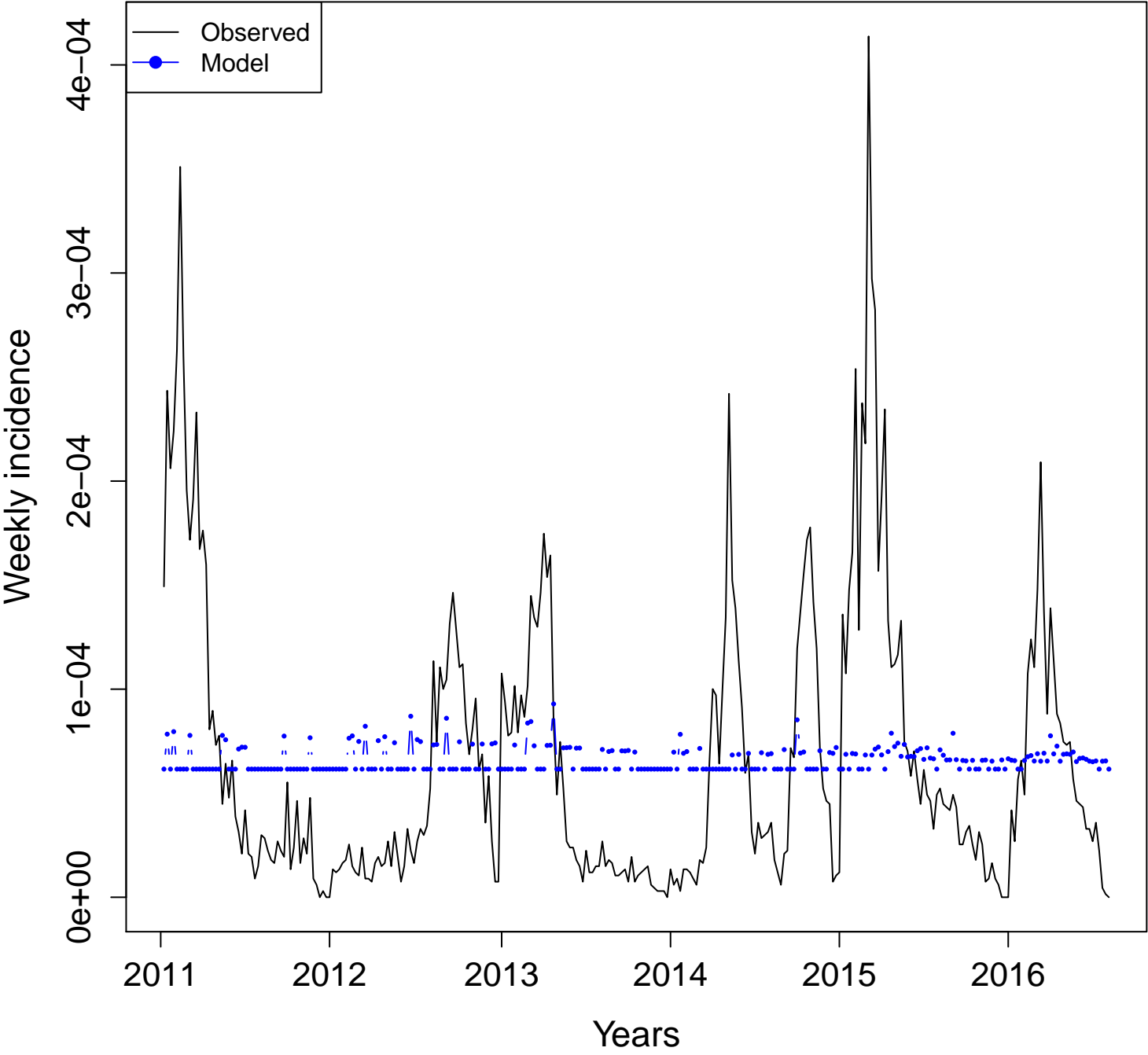


AP- dengue

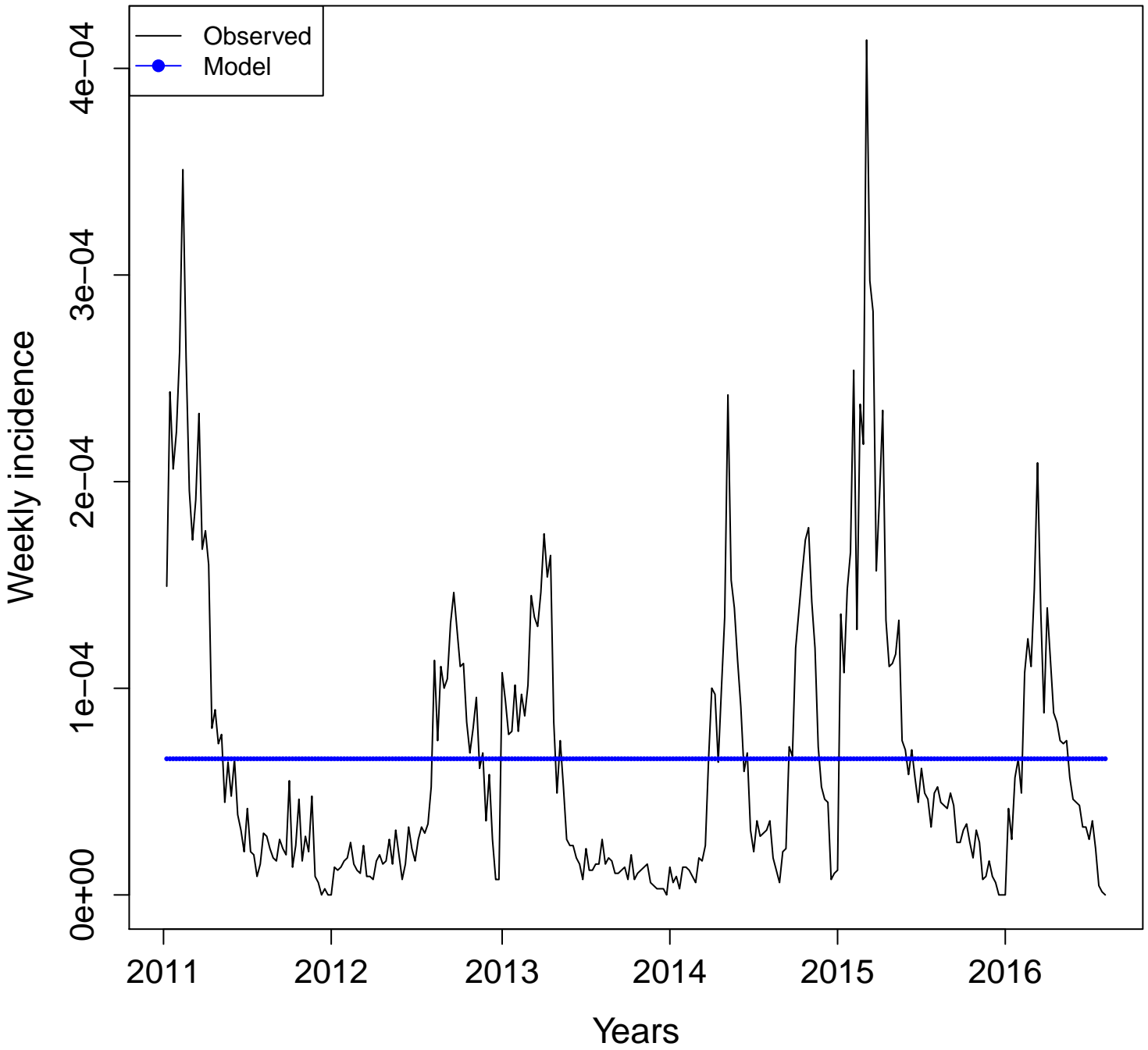
Adj. R squared = 0.0999



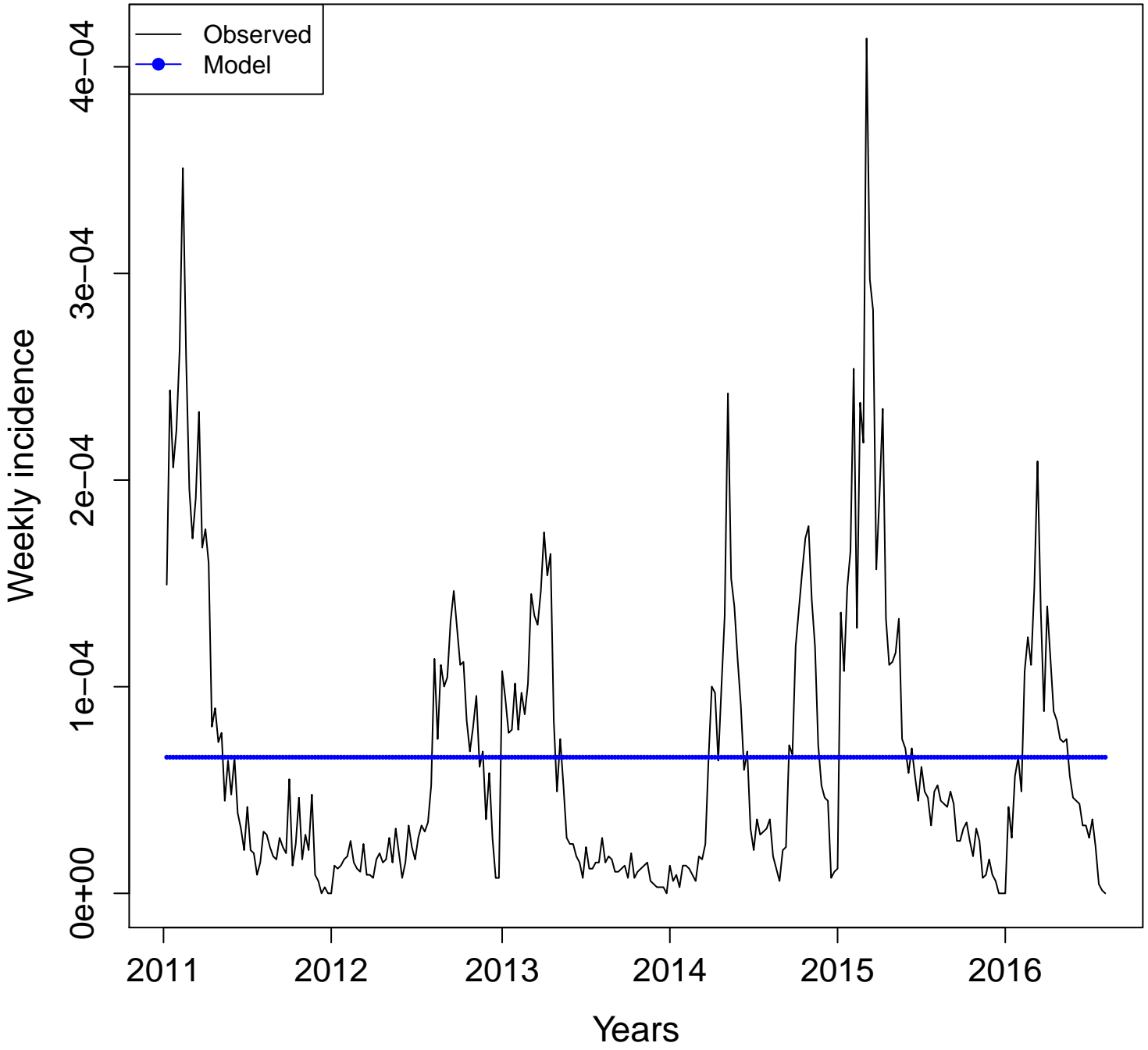
AP- dengue.sintomas
Adj. R squared = 0.004



AP- dengue.virus
Adj. R squared = 0

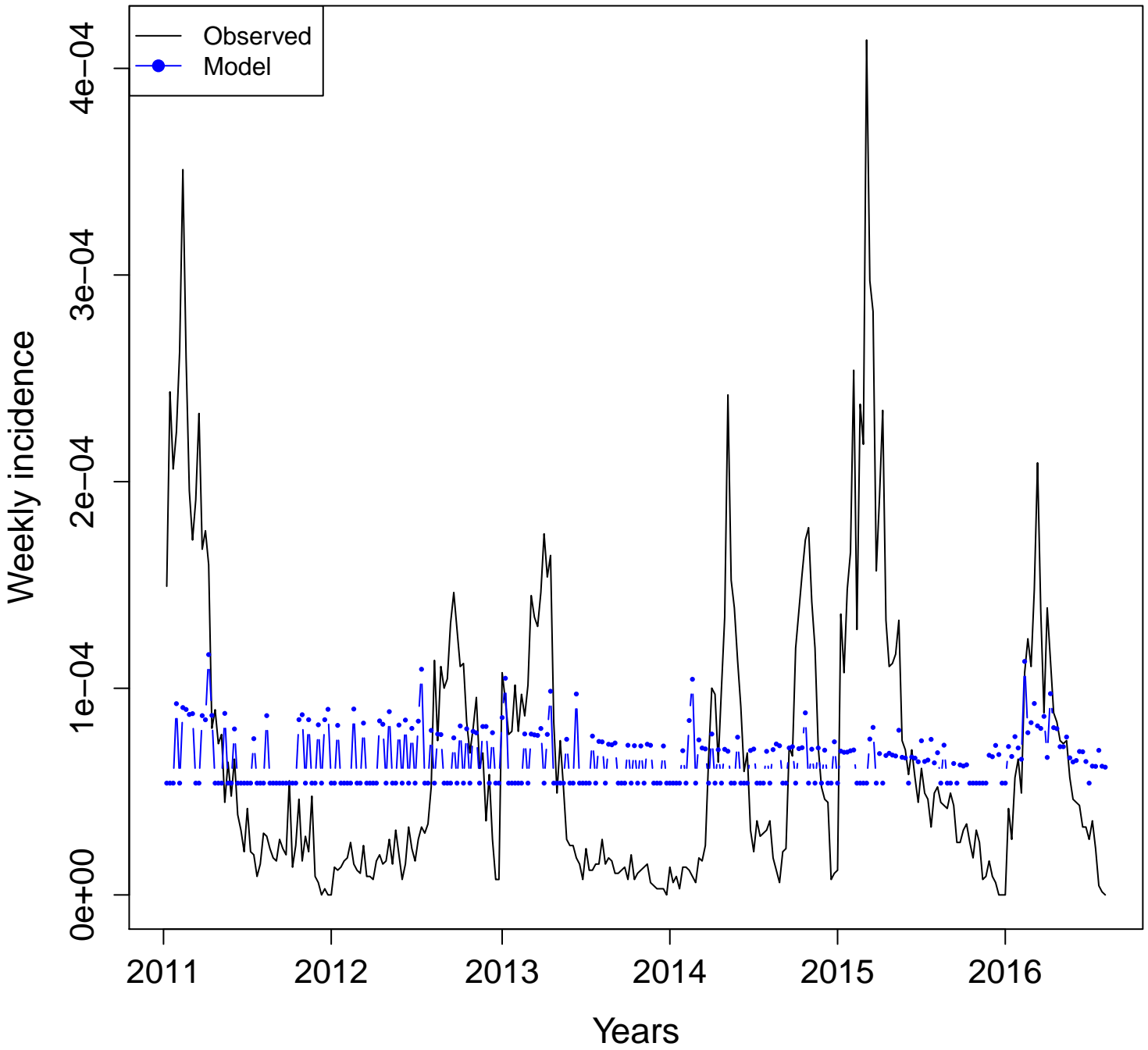


AP- mosquito.dengue
Adj. R squared = 0



AP- mosquito

Adj. R squared = 0.0355



Bahia (BA)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

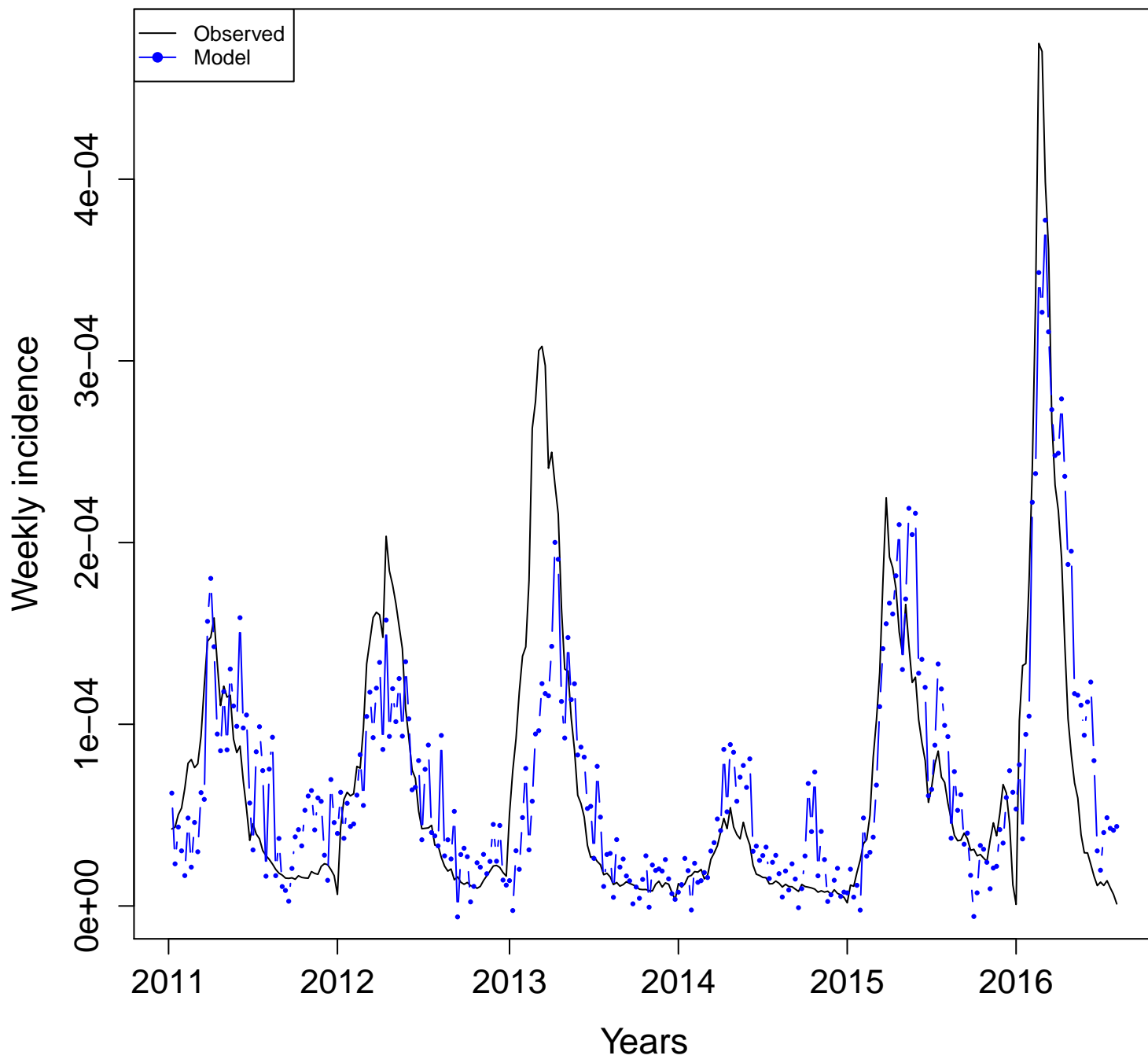
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Combined terms
Adjusted R squared

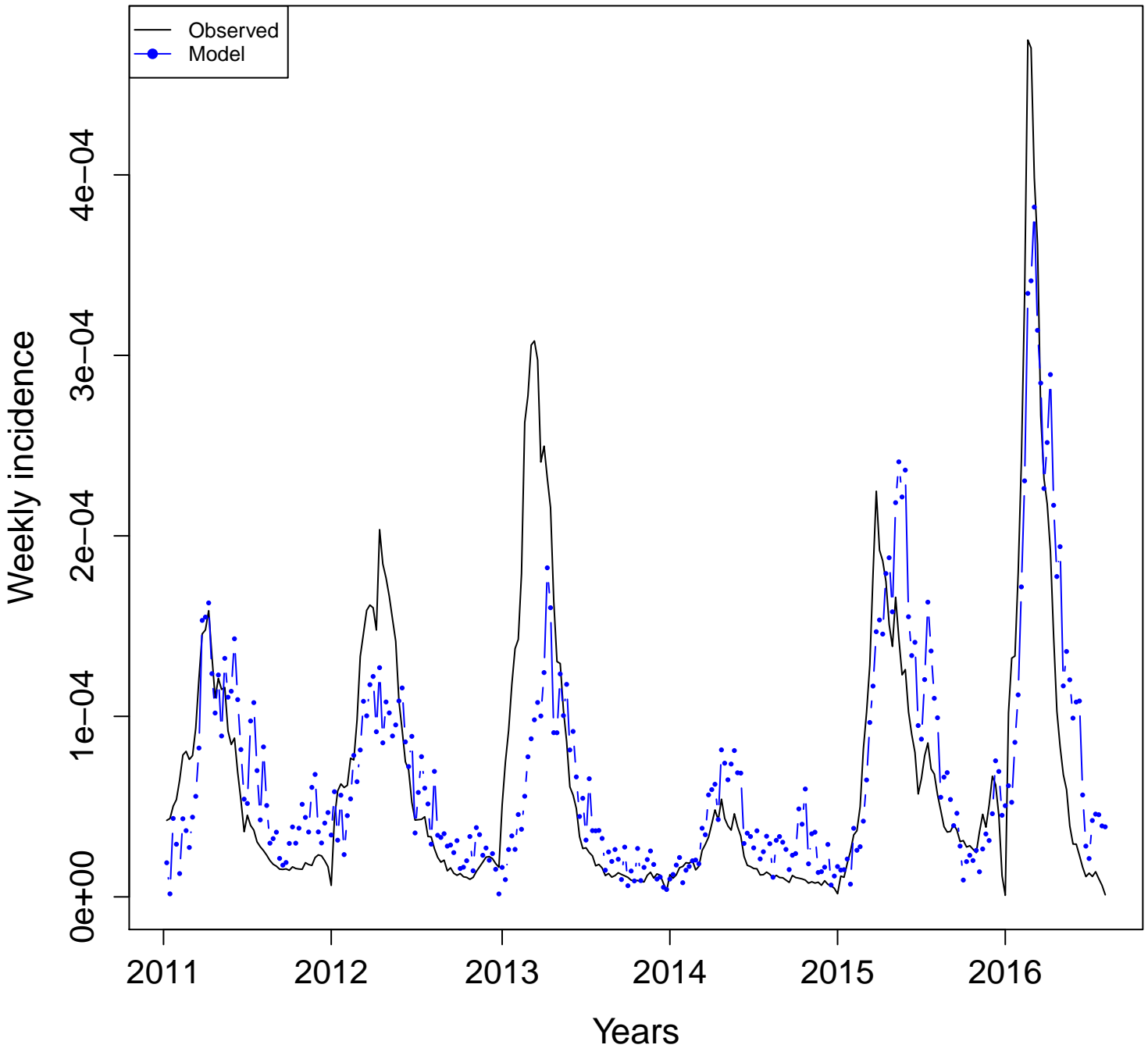
Bahia (BA)

All
(n = 11)

BR-BA
Adj. R squared = 0.6472

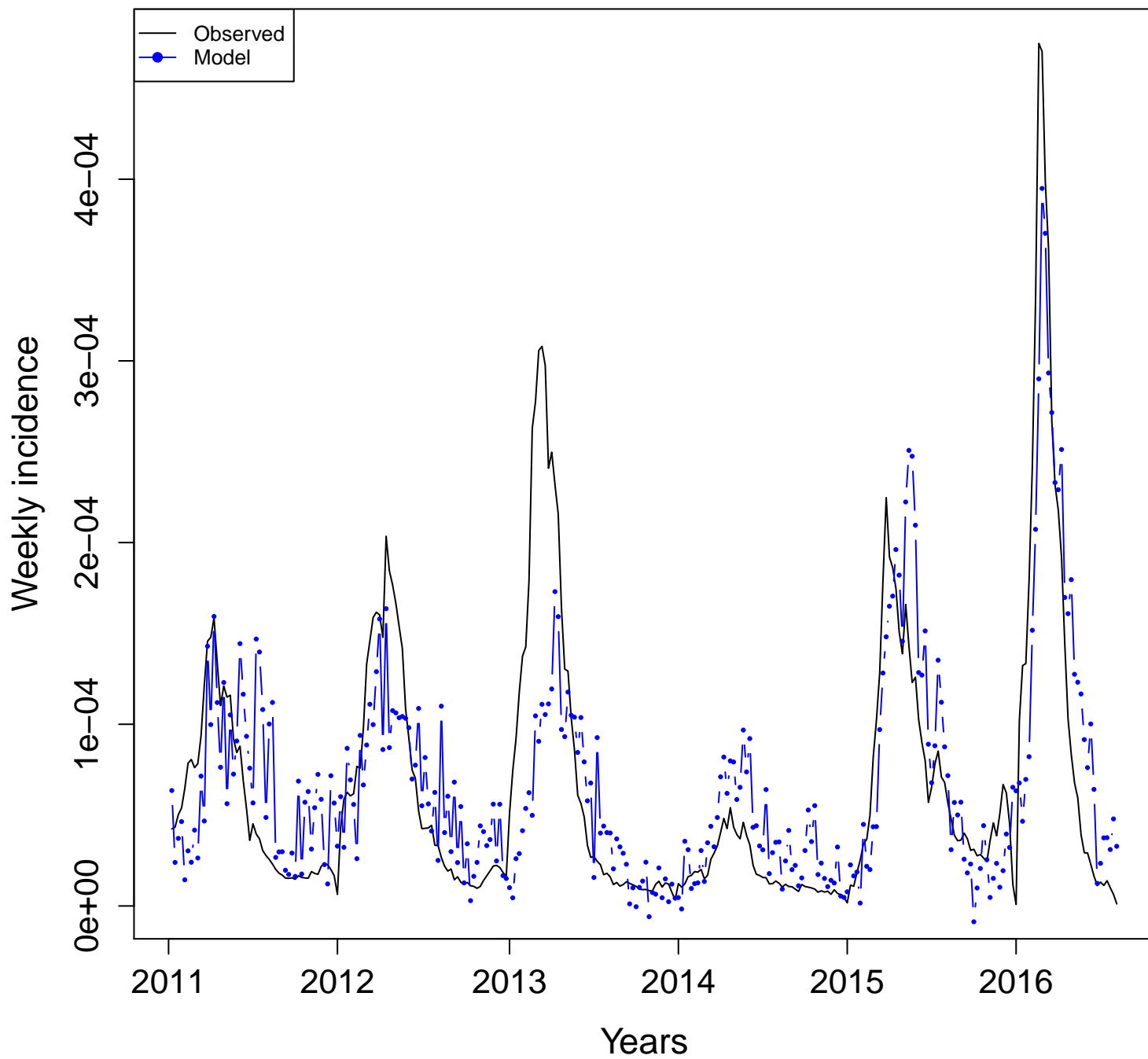


BR-BA
Adj. R squared = 0.6238



**Uncorrelated
(n = 3)**

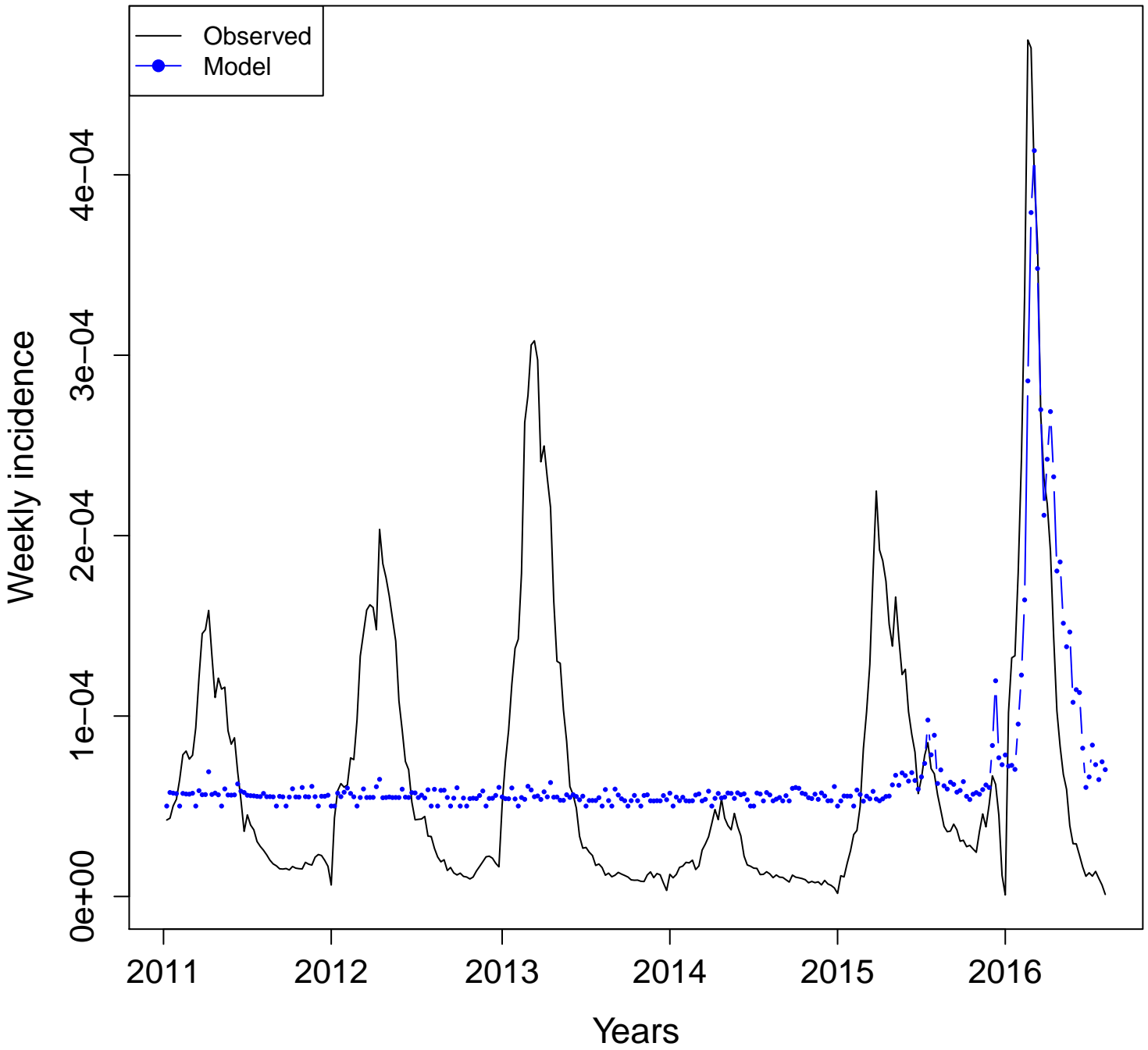
**BR-BA
Adj. R squared = 0.6032**



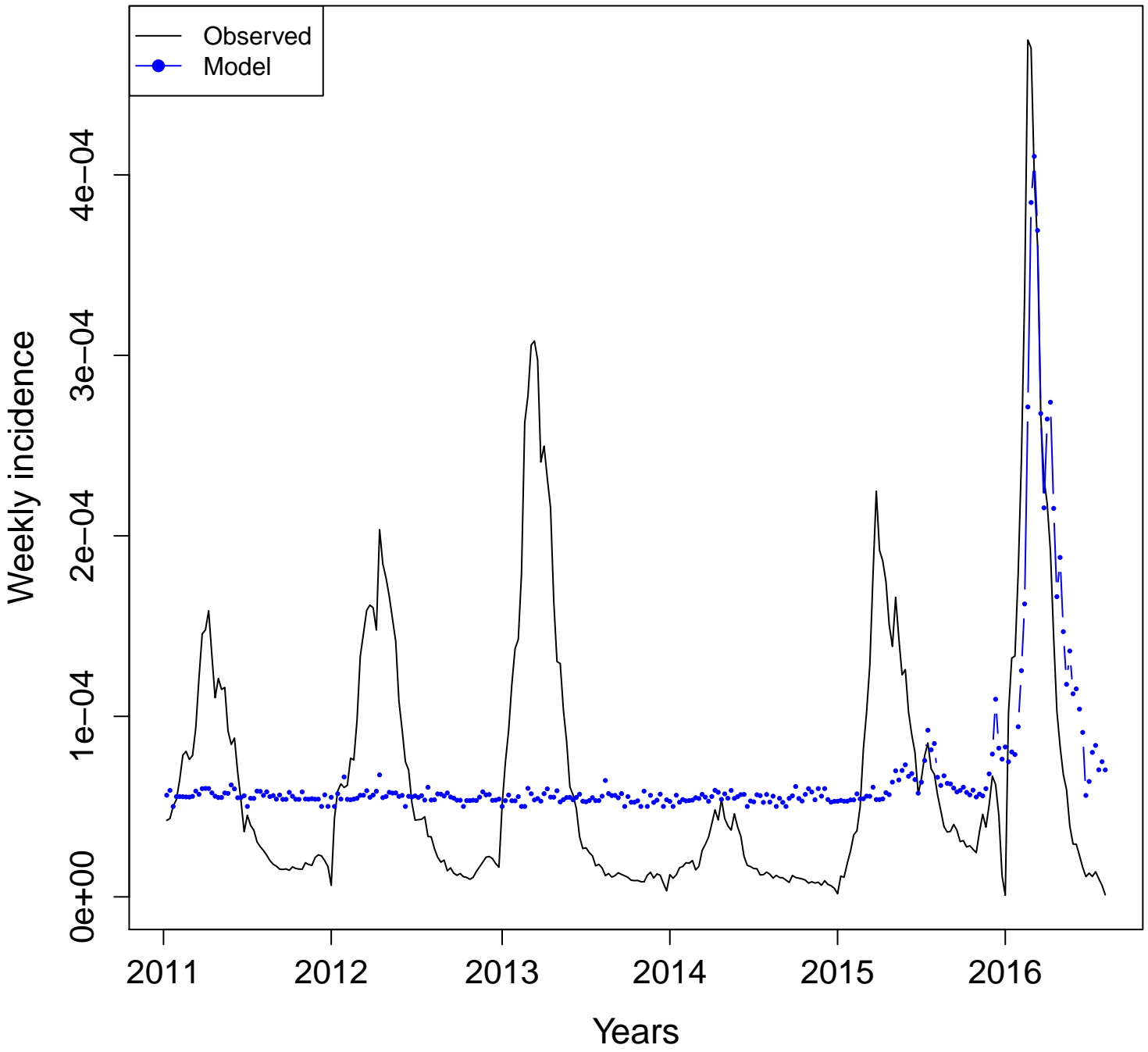
Individual terms
Adjusted R squared

Bahia (BA)

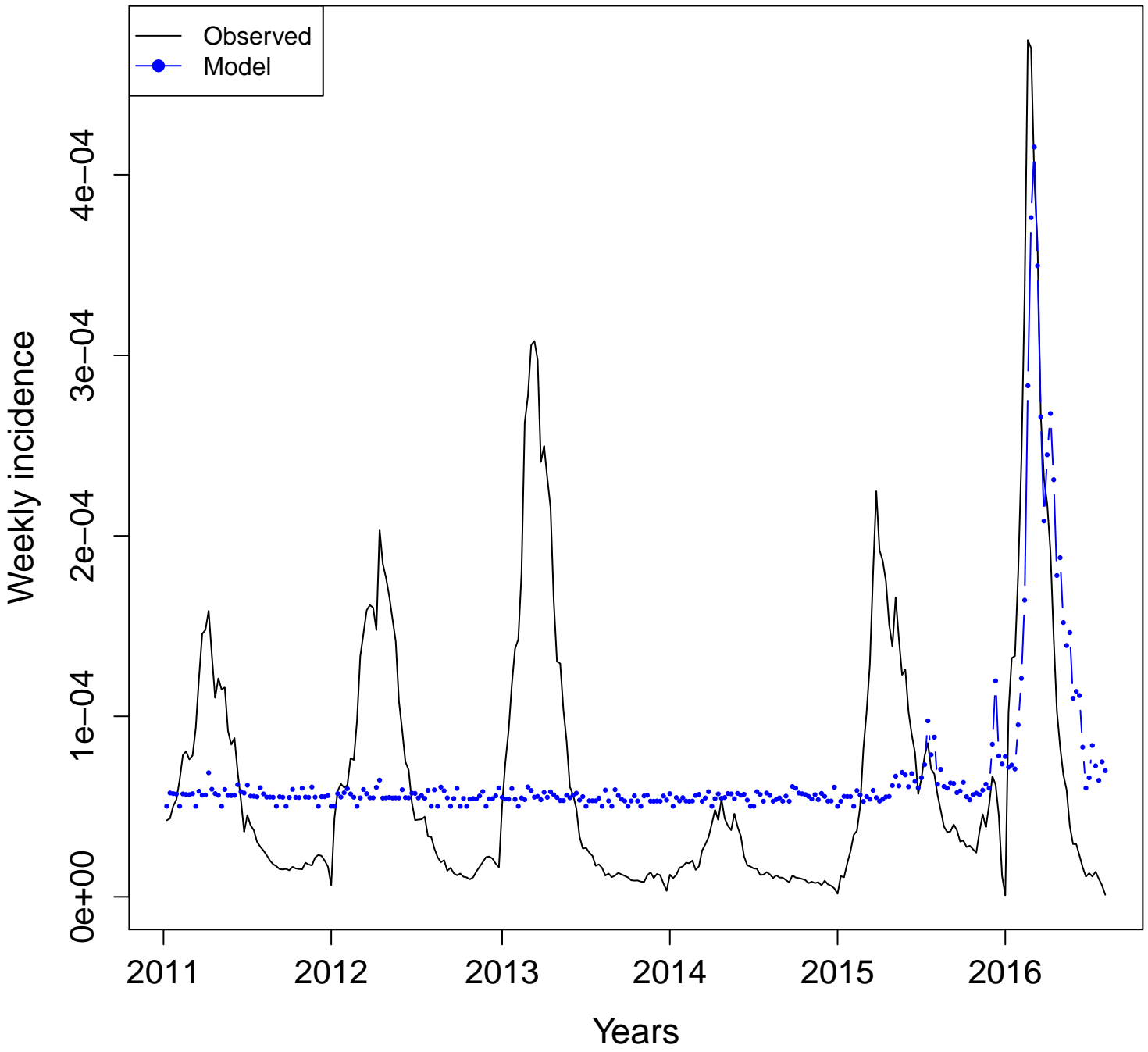
BA- aedes.aegypti
Adj. R squared = 0.3272



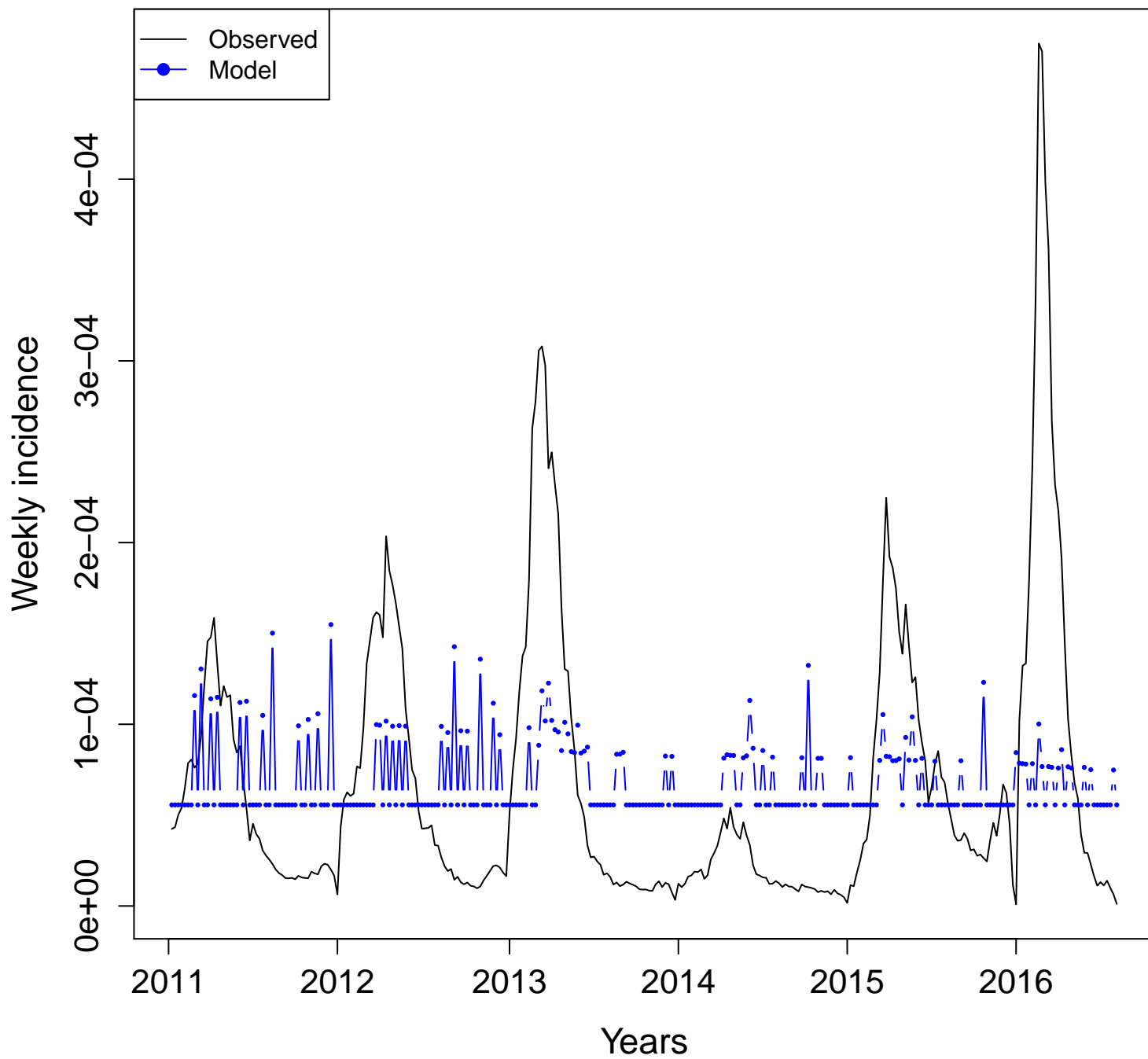
BA- aedes
Adj. R squared = 0.3301



BA- aegypti
Adj. R squared = 0.3254

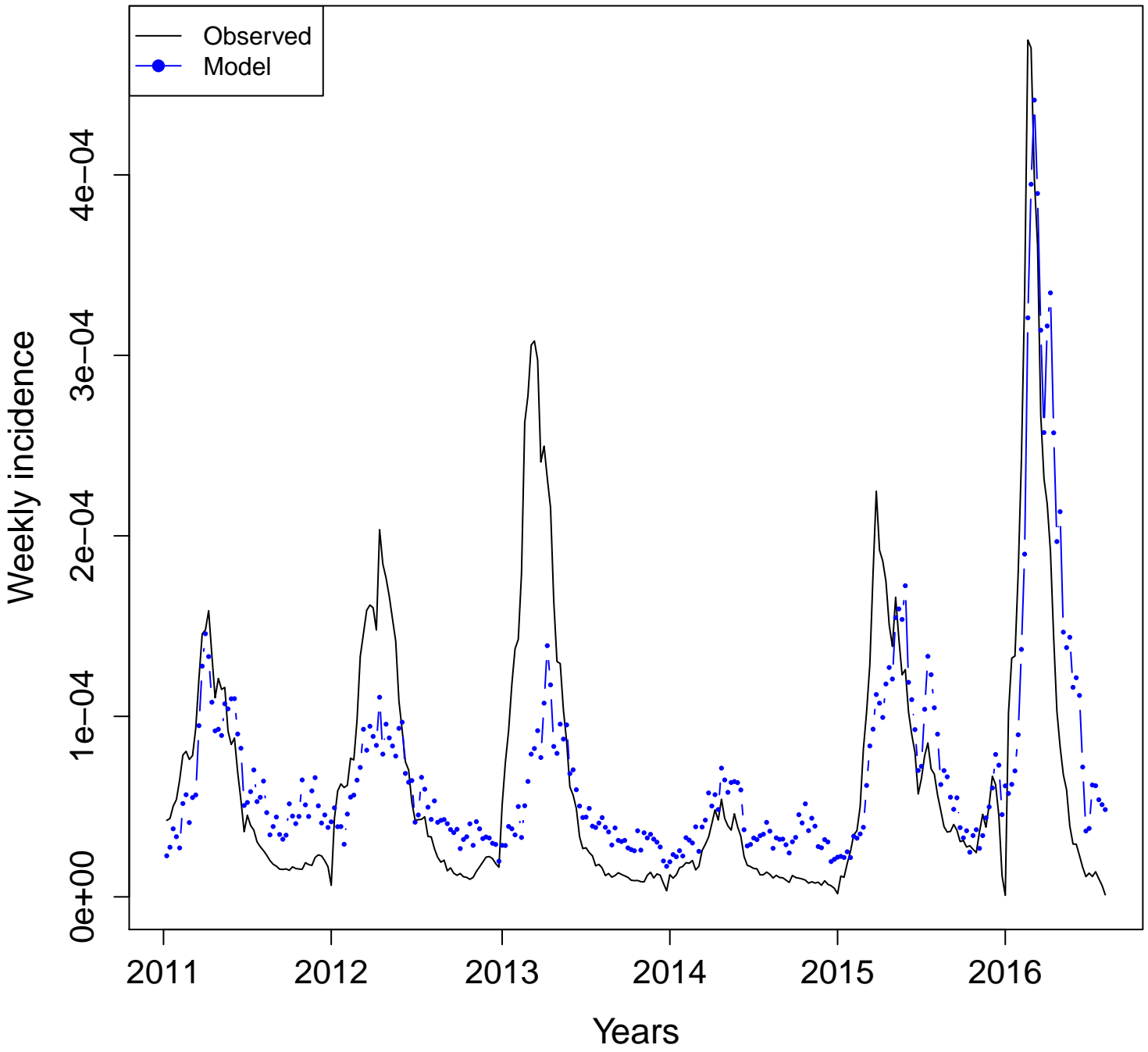


BA- dengue.fever
Adj. R squared = 0.063

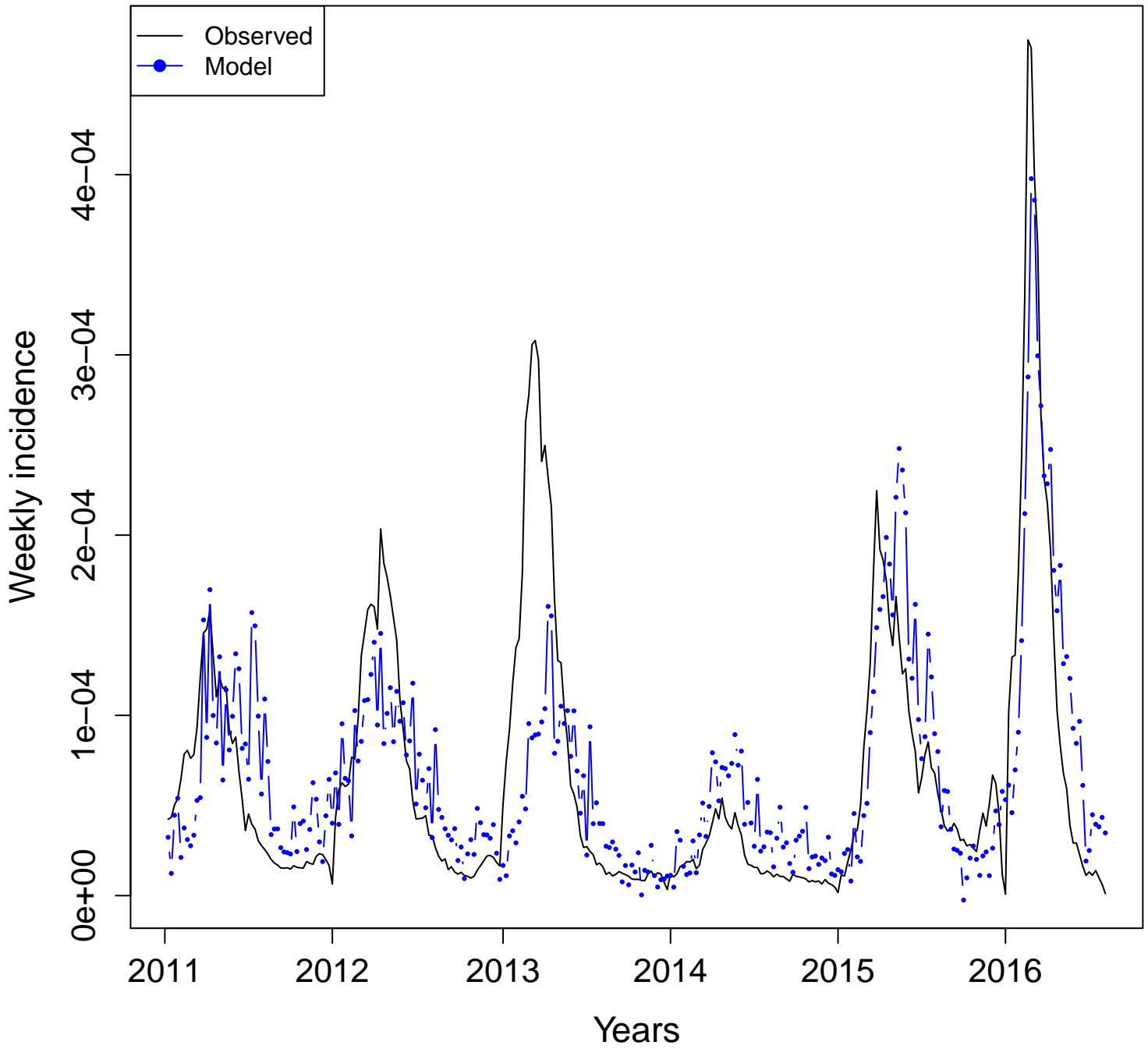


BA- dengue

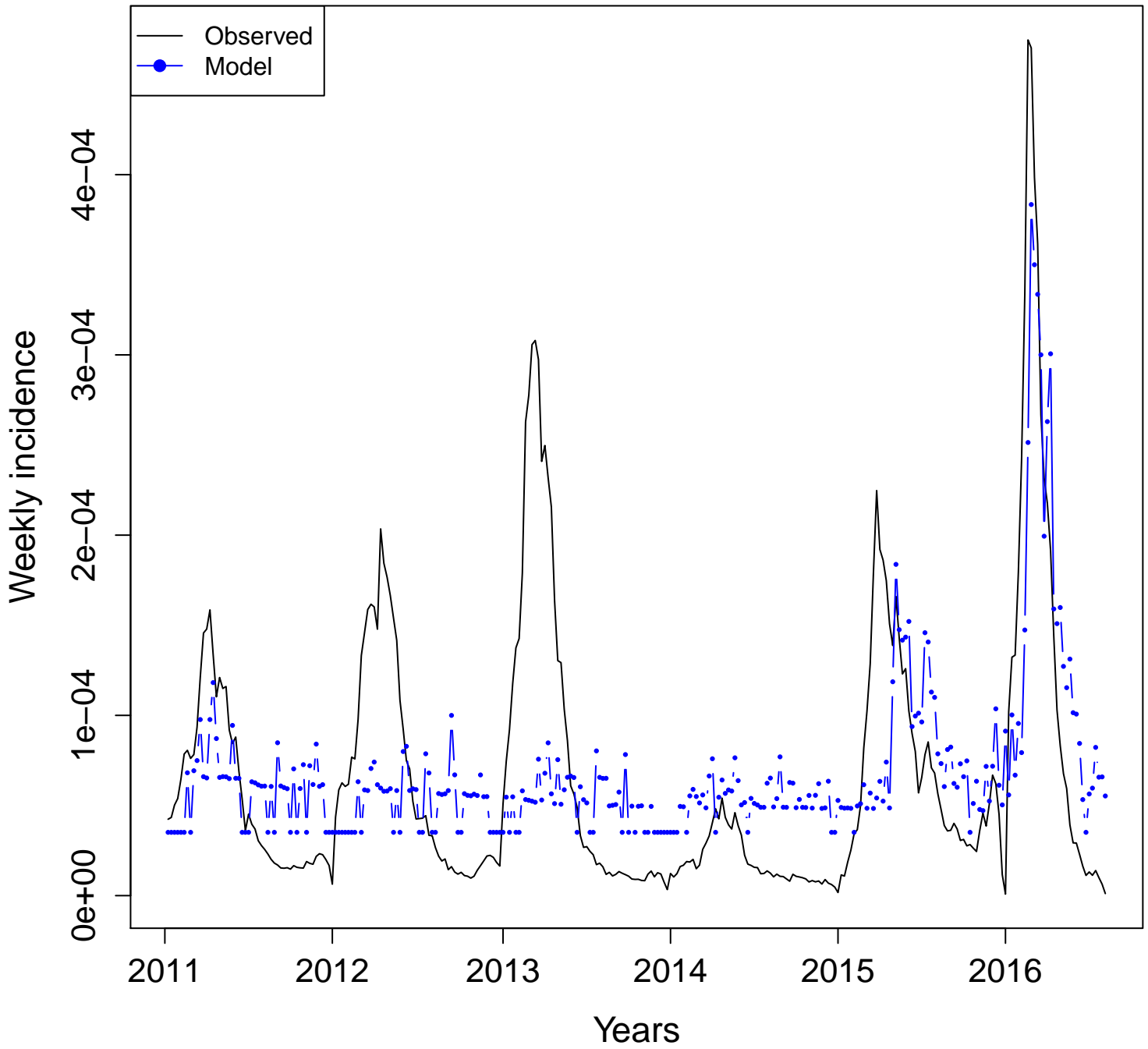
Adj. R squared = 0.5657



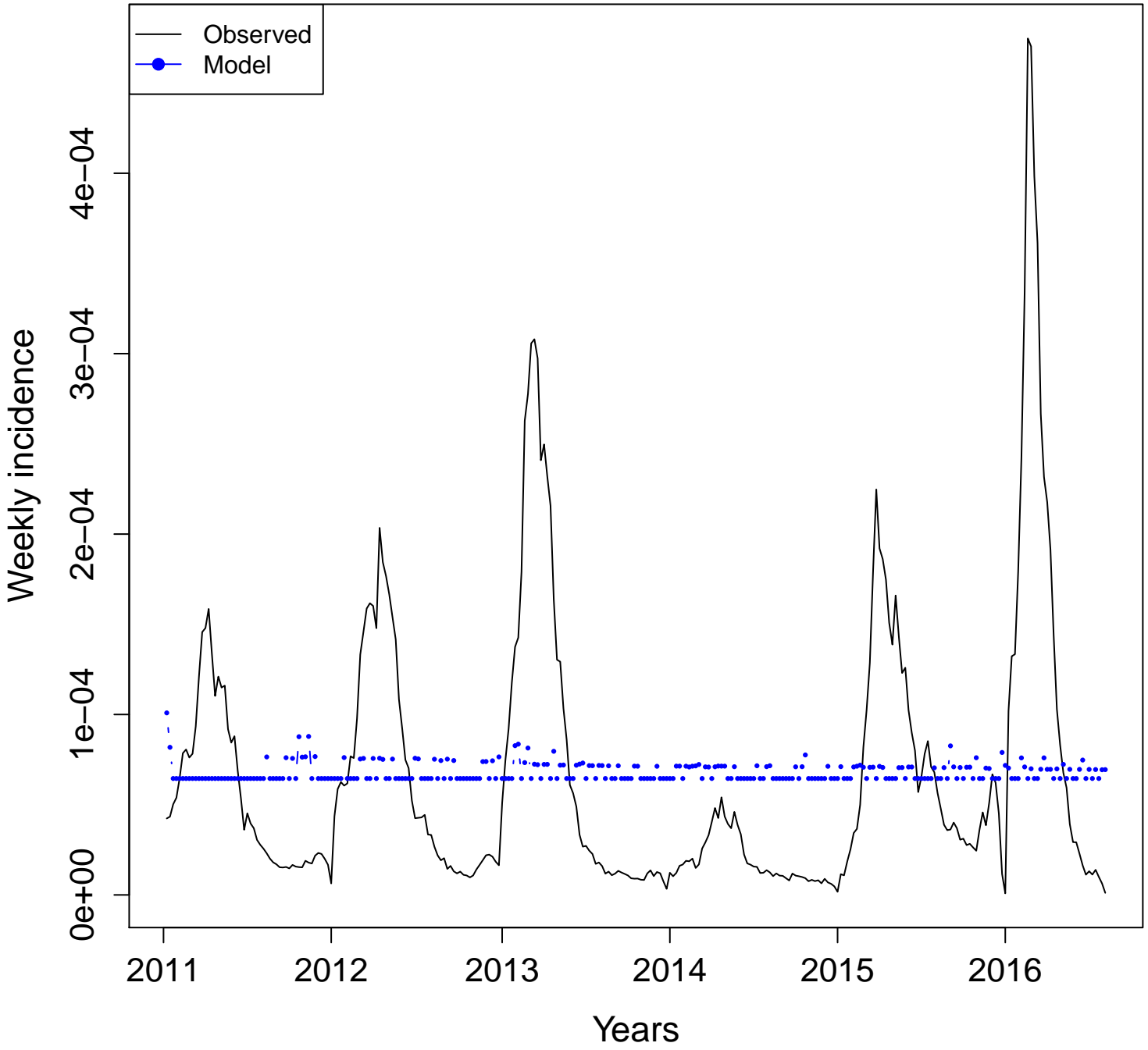
BA- dengue.sintomas
Adj. R squared = 0.5927



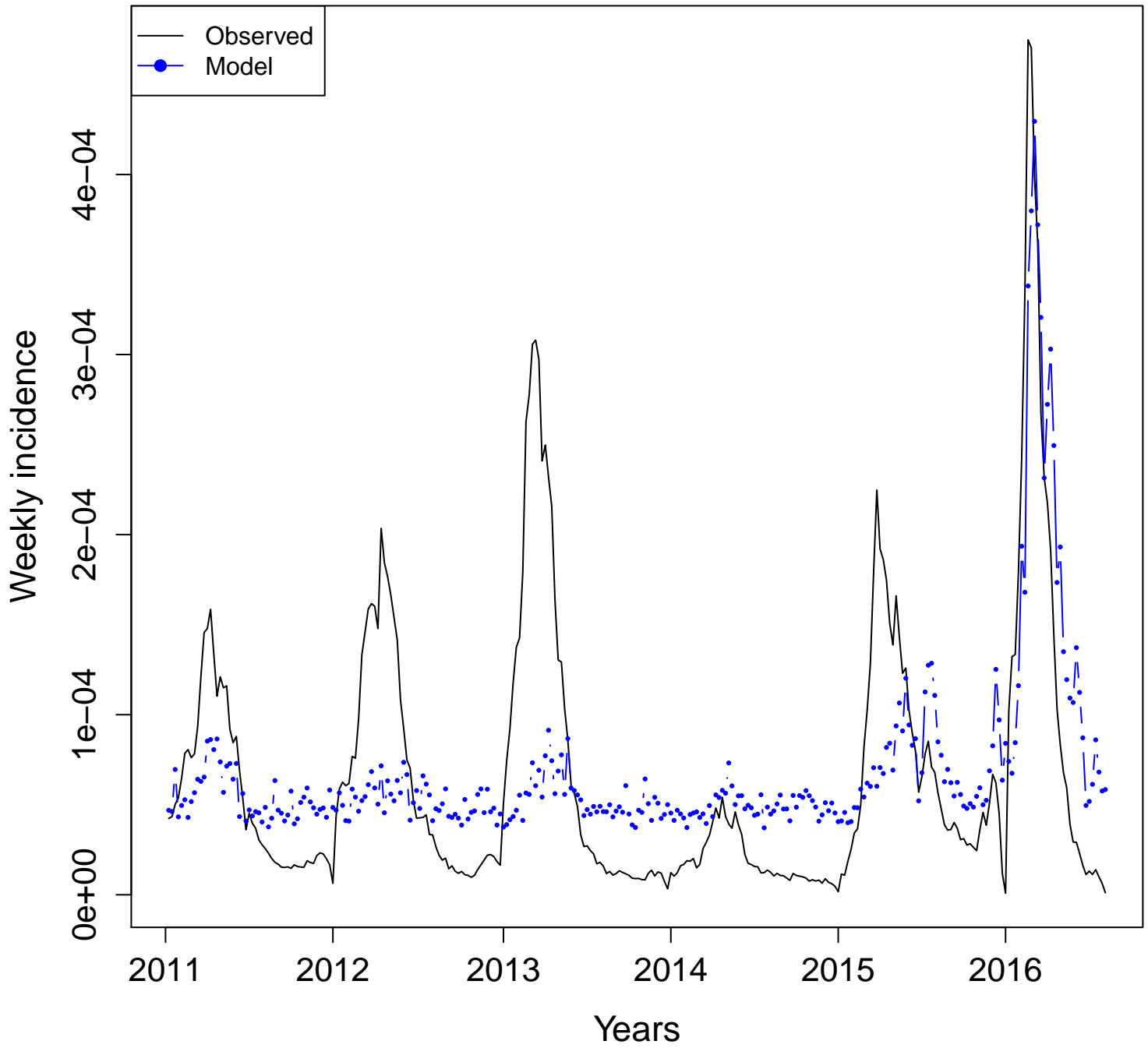
BA- dengue.virus
Adj. R squared = 0.3526



BA- DHF
Adj. R squared = 7e-04

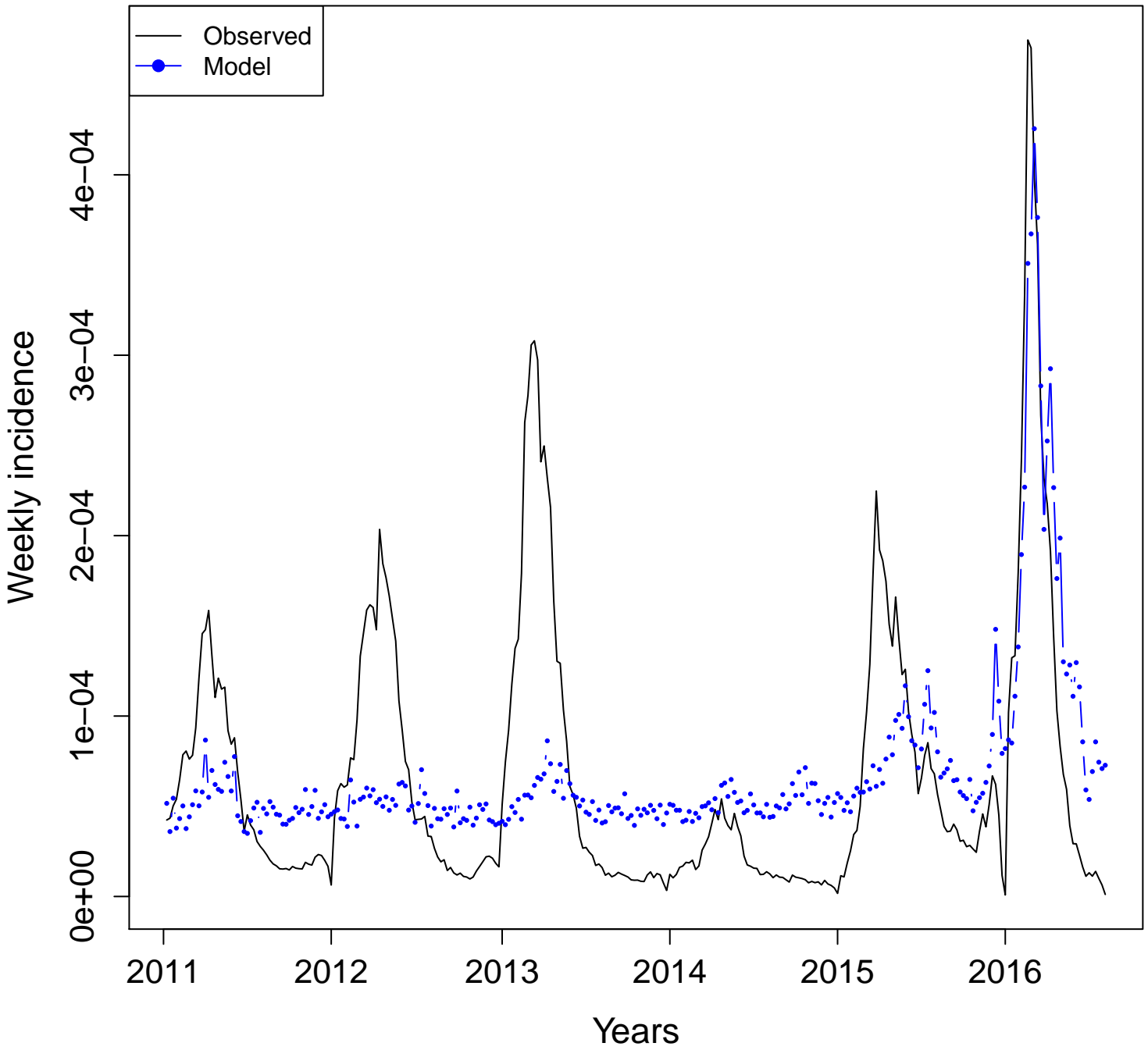


BA- mosquito.dengue
Adj. R squared = 0.4272

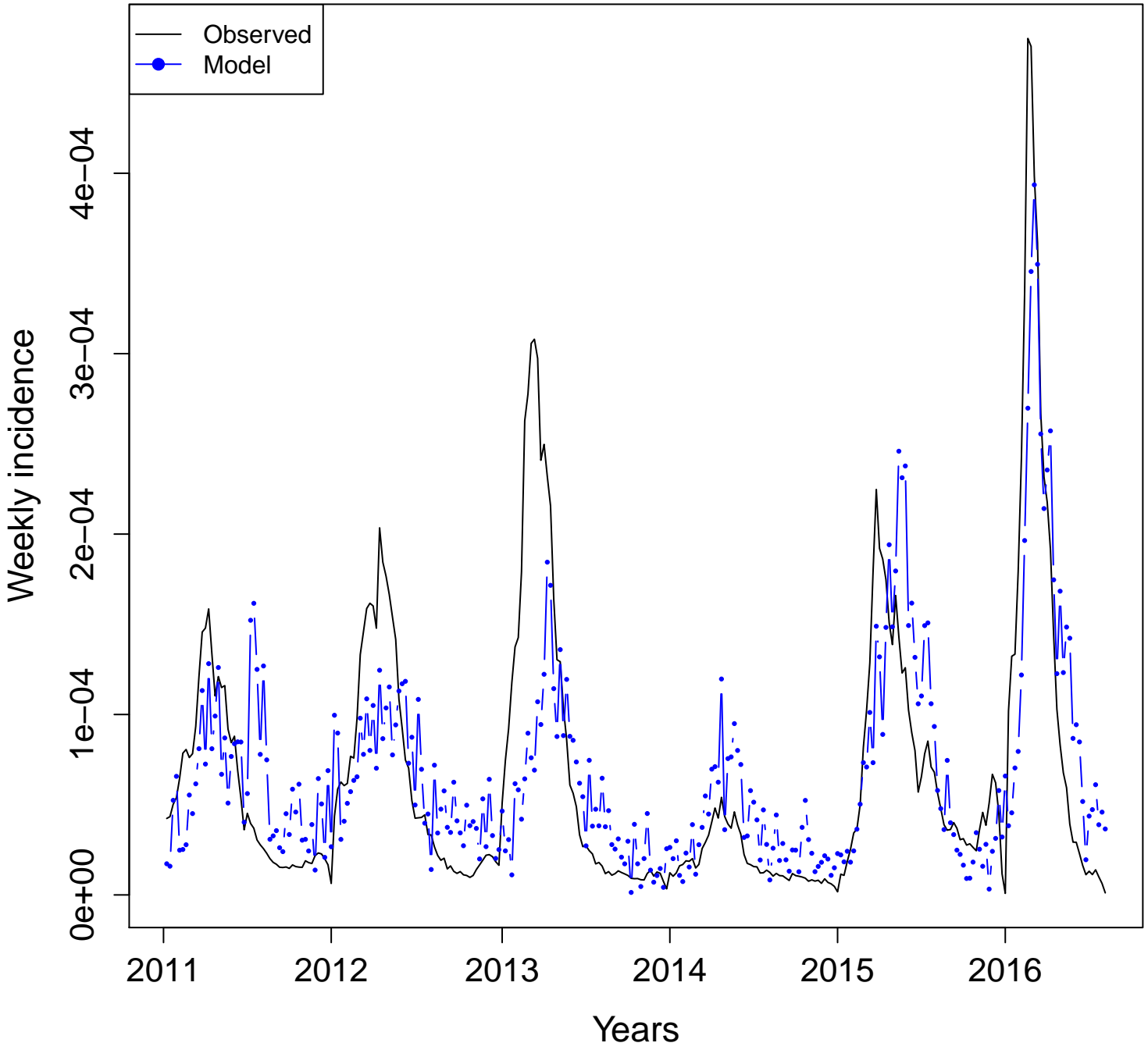


BA- mosquito

Adj. R squared = 0.4125



BA- sintomas.da.dengue
Adj. R squared = 0.55



Ceará (CE)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

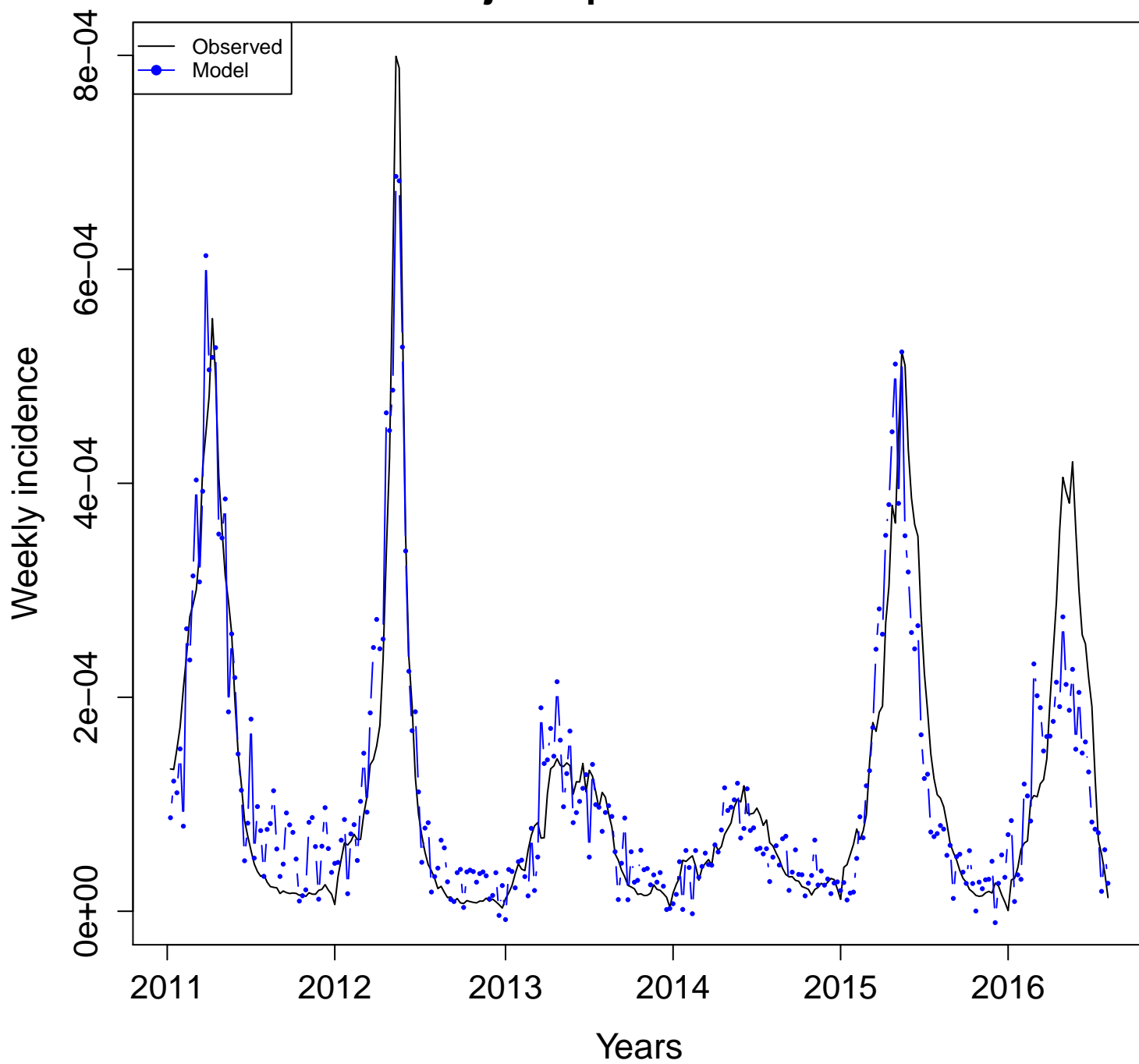
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Combined terms
Adjusted R squared

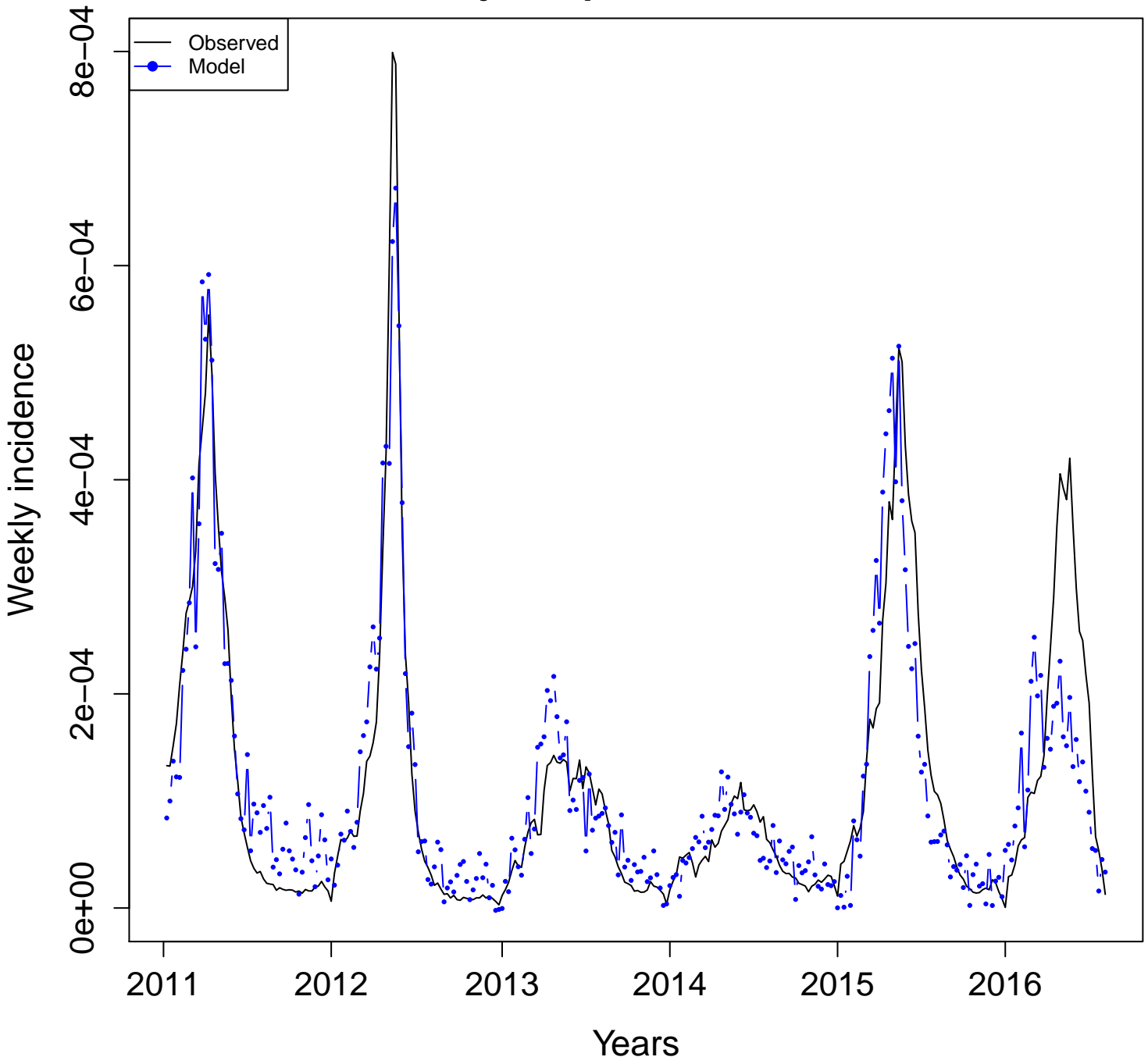
Ceará (CE)

All
(n = 10)

BR-CE
Adj. R squared = 0.8389

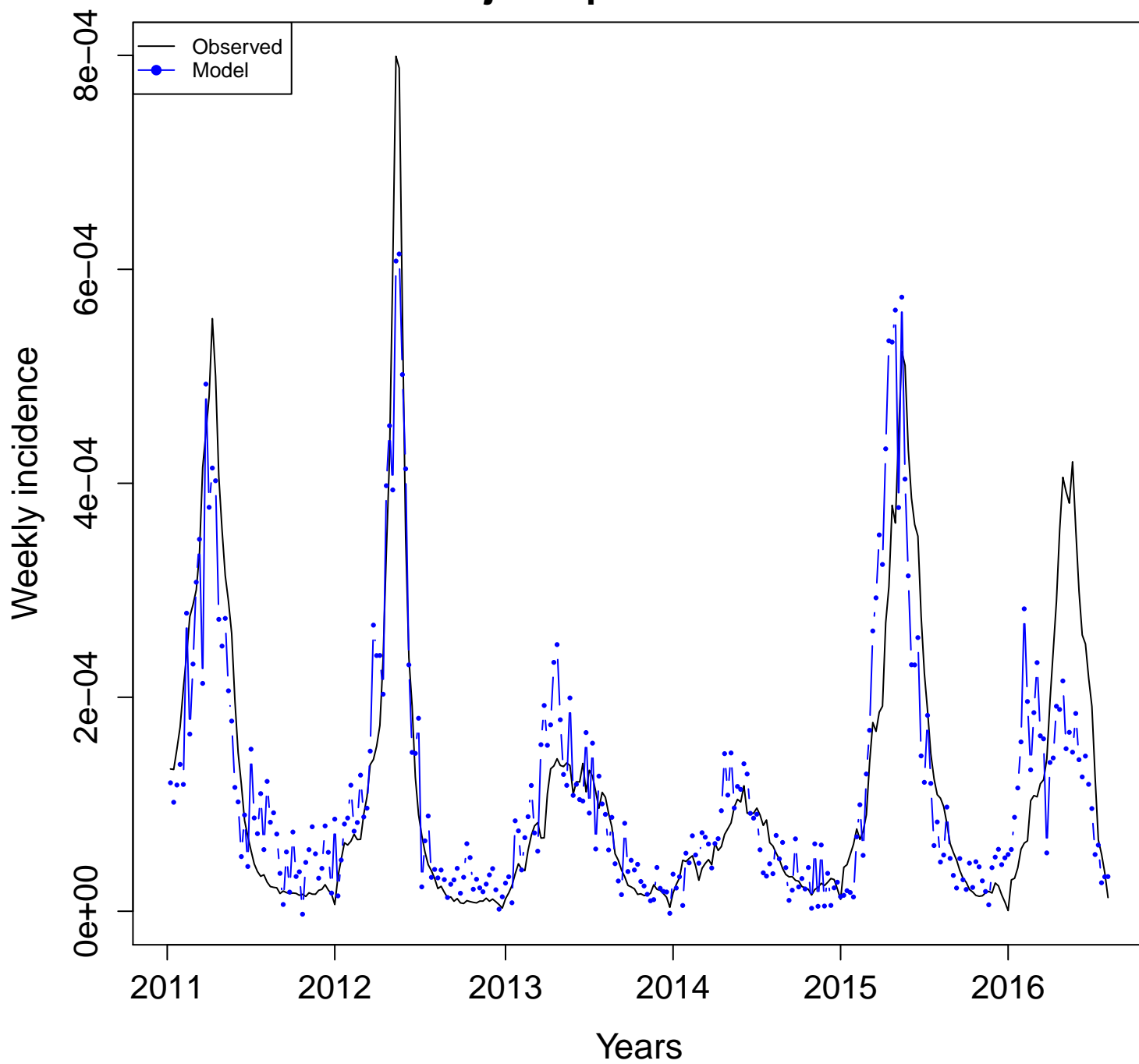


BR-CE
Adj. R squared = 0.8121



**Uncorrelated
(n = 3)**

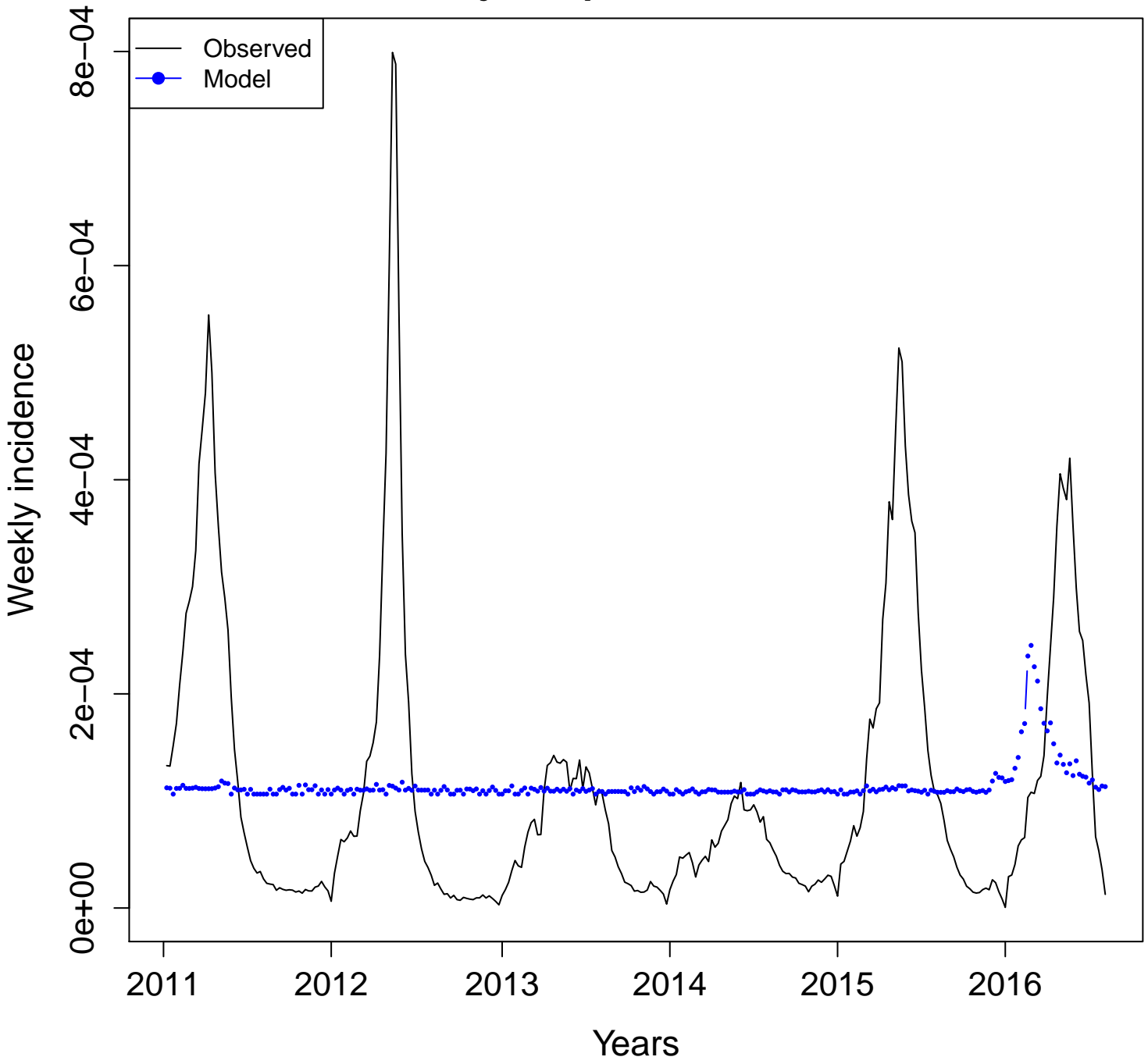
**BR-CE
Adj. R squared = 0.7459**



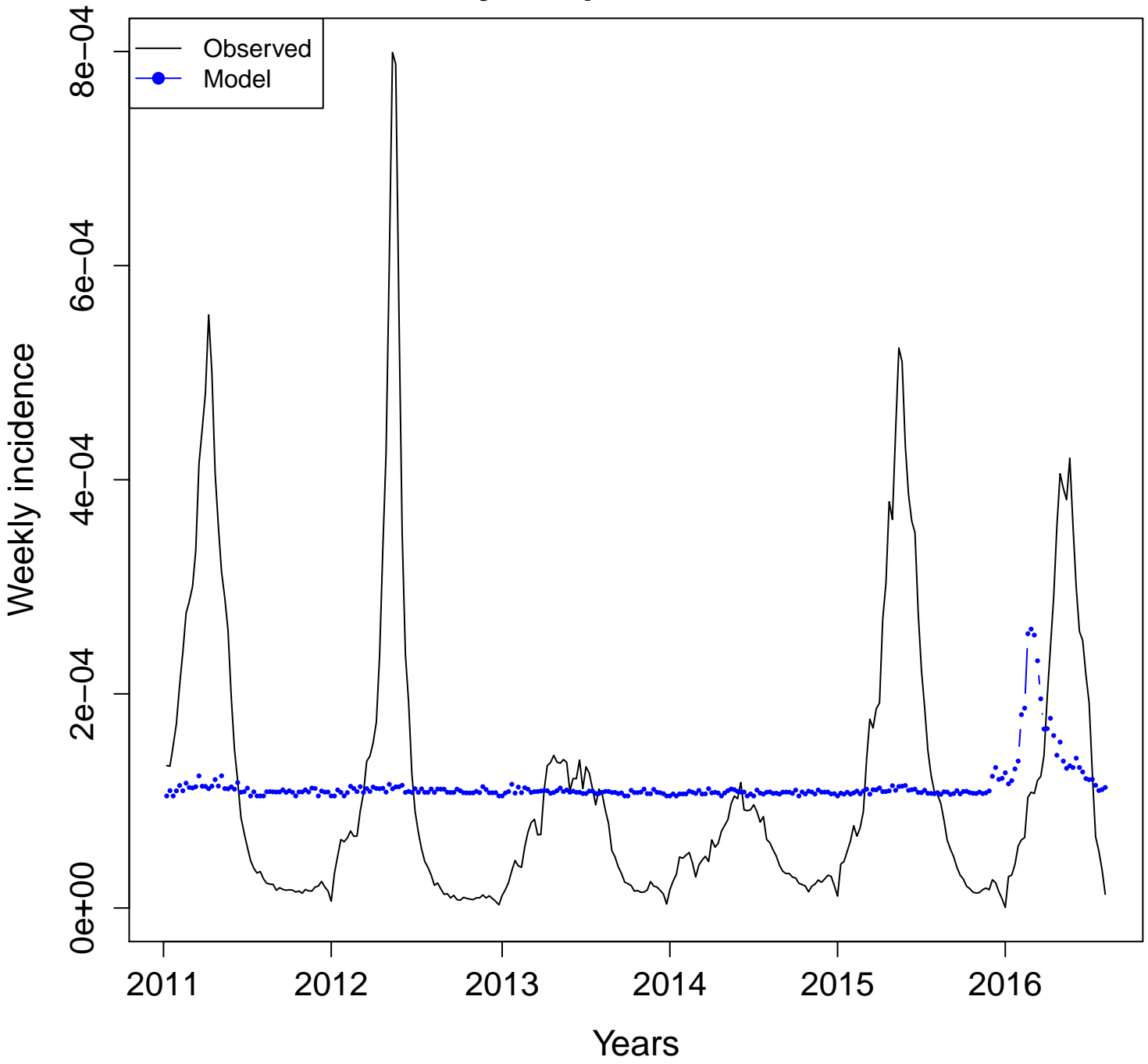
Individual terms
Adjusted R squared

Ceará (CE)

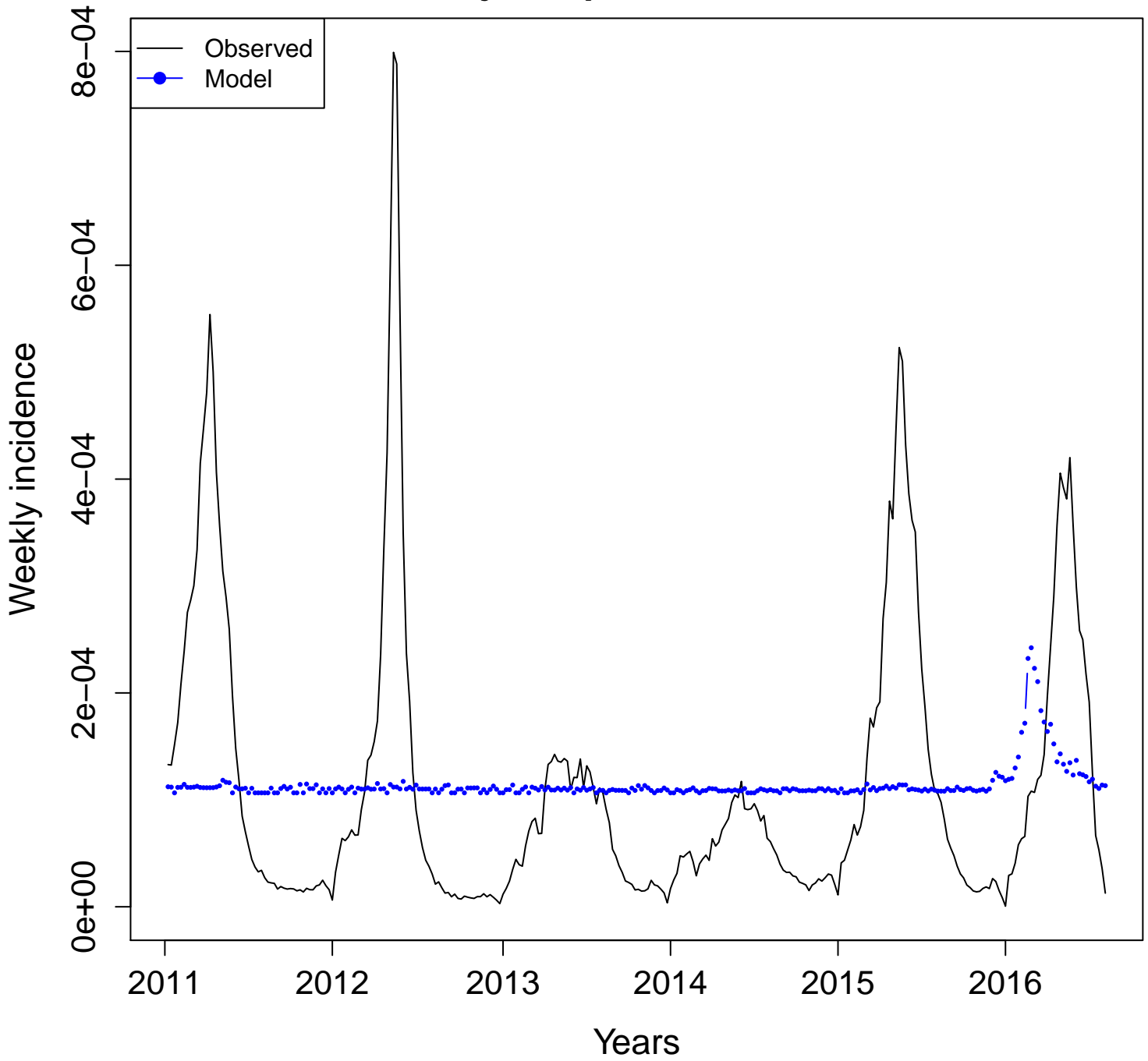
CE- aedes.aegypti
Adj. R squared = 0.0125



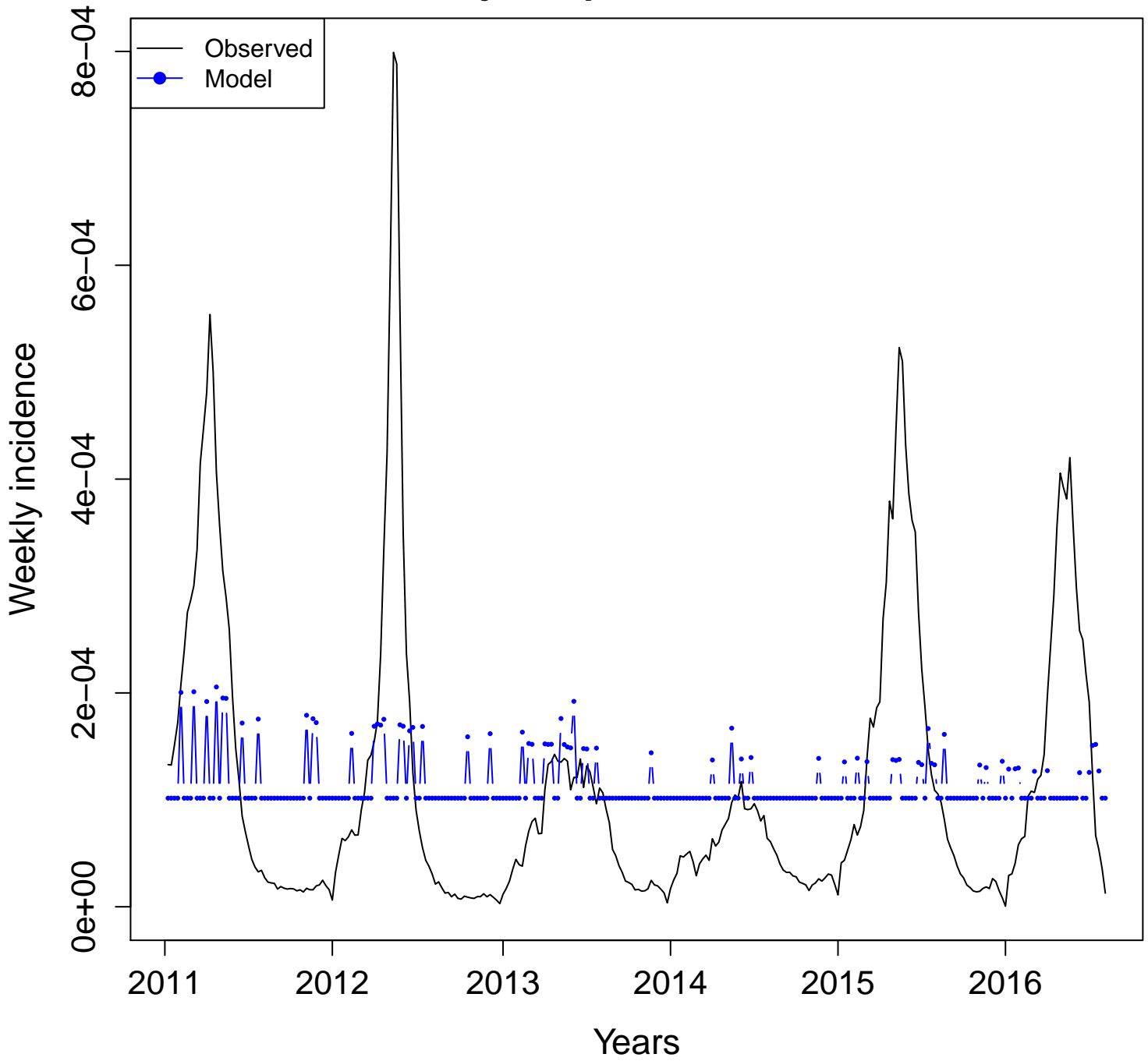
CE- aedes
Adj. R squared = 0.0183



CE- aegypti
Adj. R squared = 0.0118

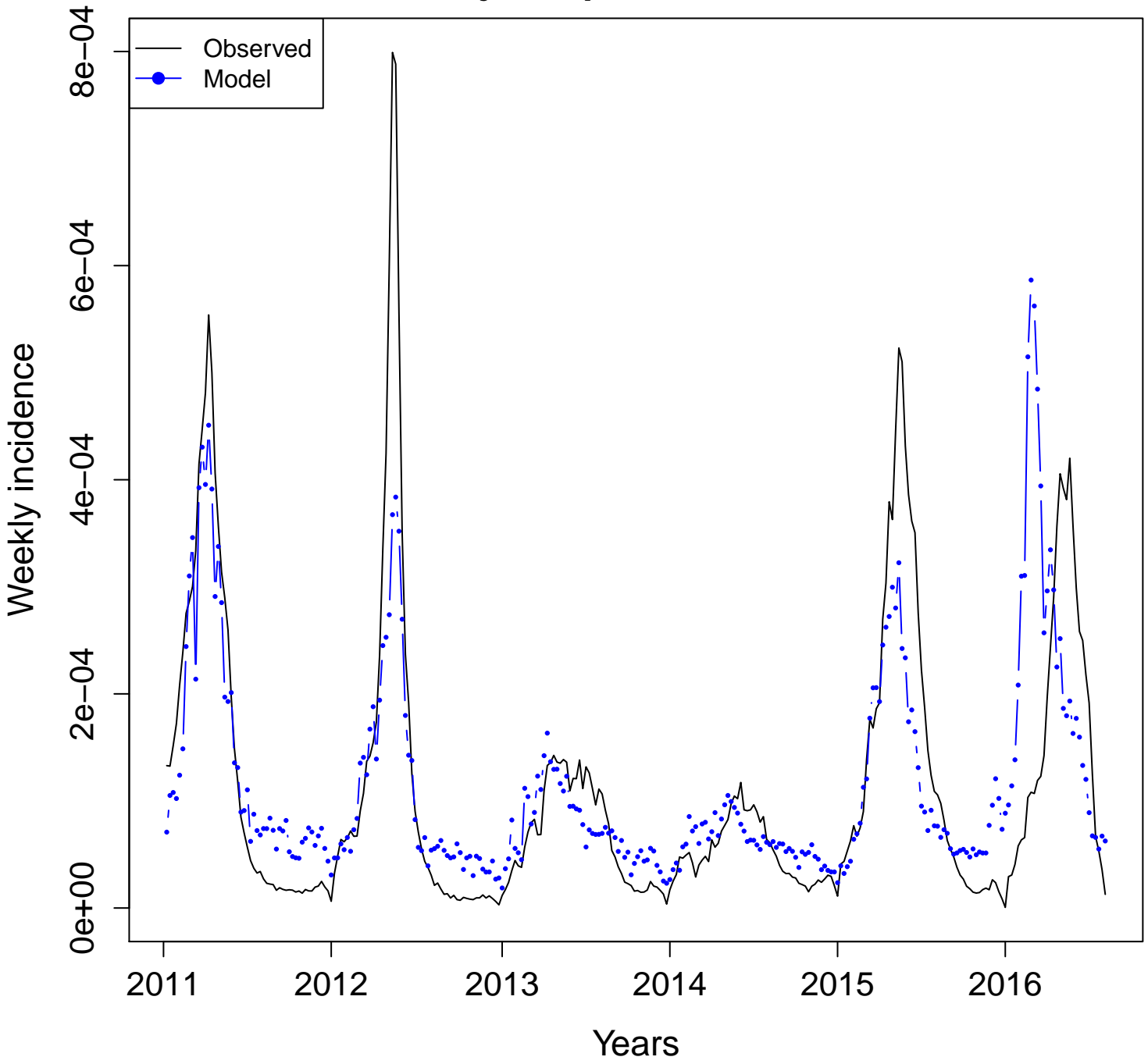


CE- dengue.fever
Adj. R squared = 0.0292



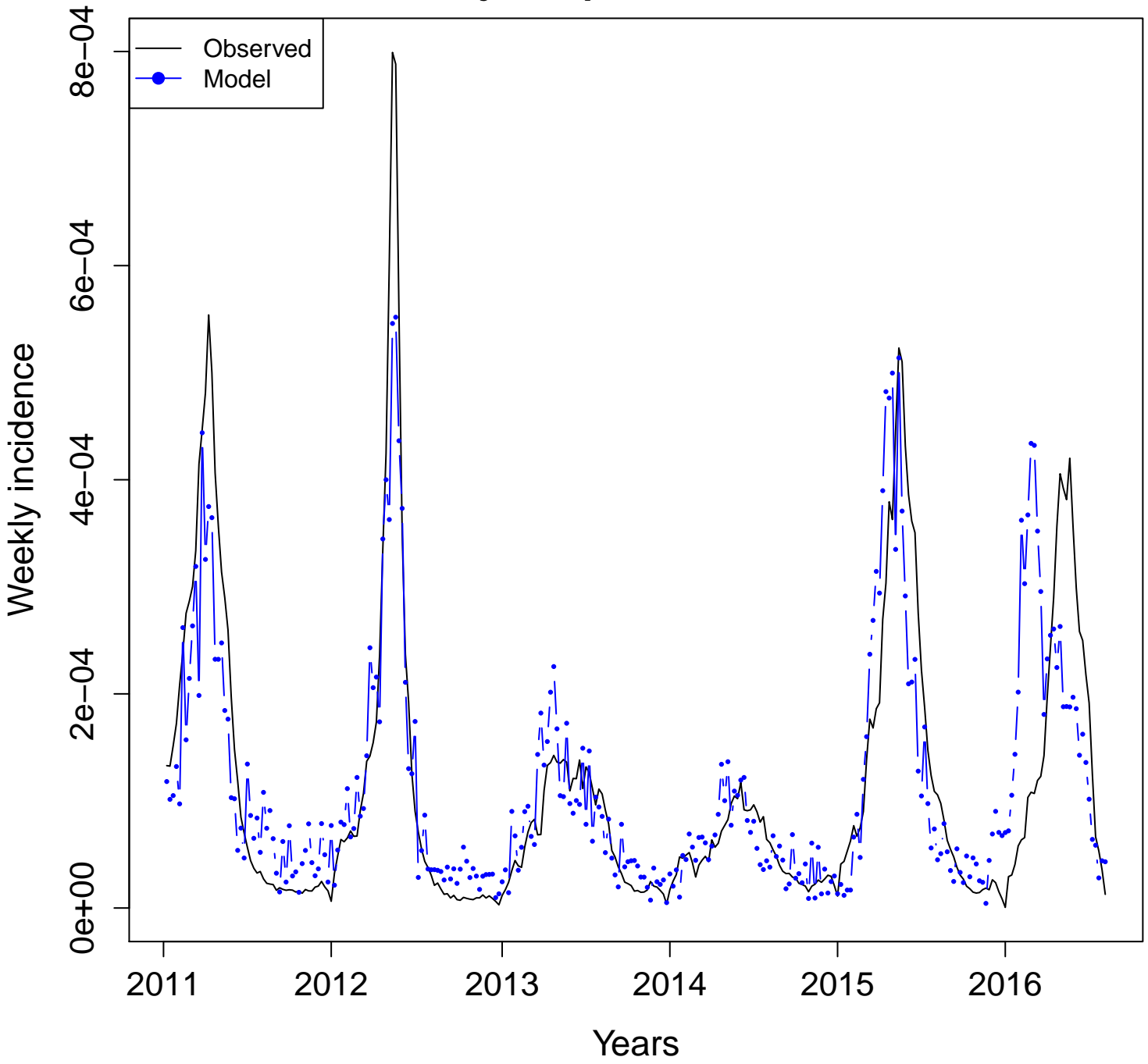
CE- dengue

Adj. R squared = 0.5385



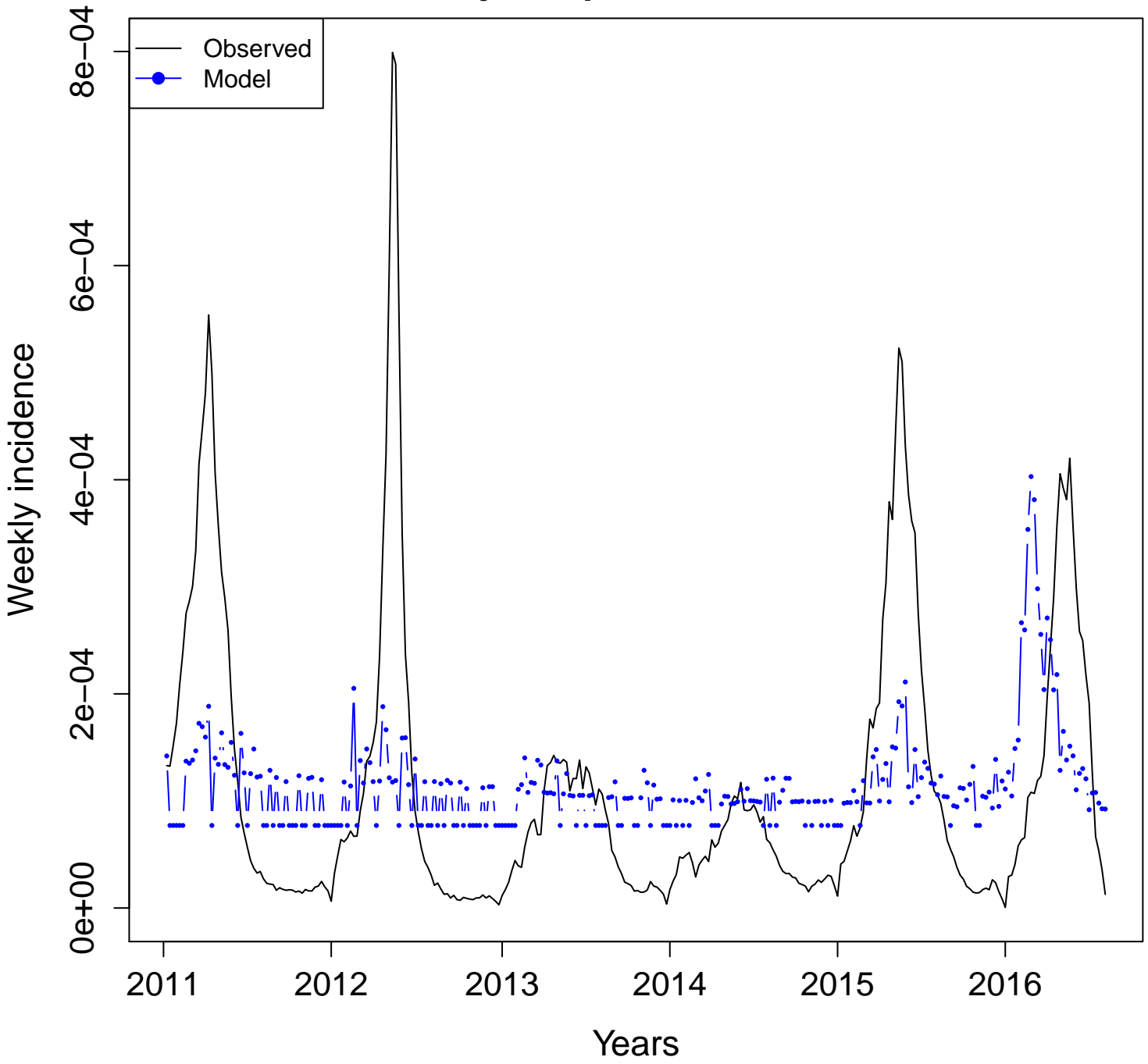
CE- dengue.sintomas

Adj. R squared = 0.6805

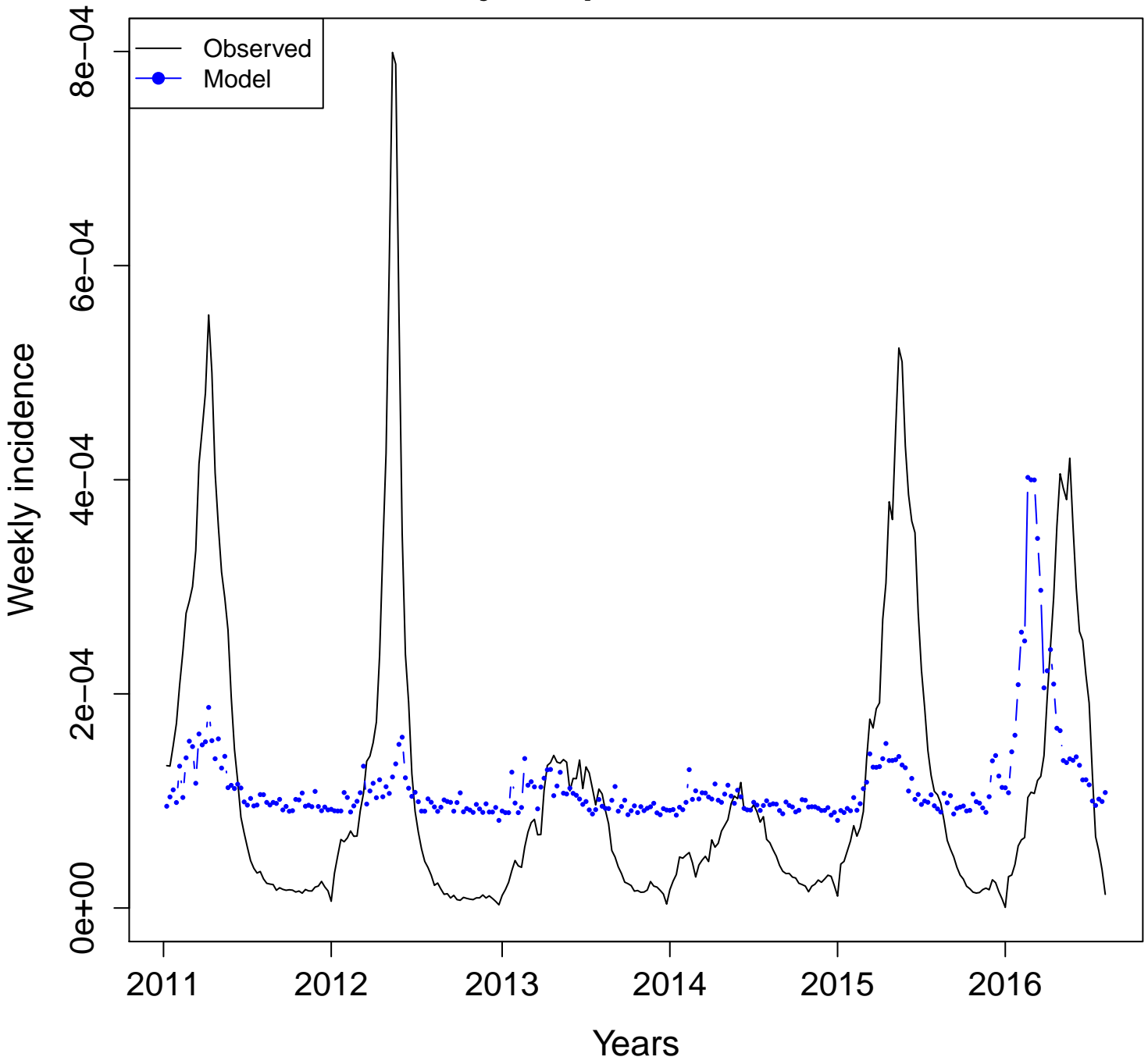


CE- dengue.virus

Adj. R squared = 0.1077

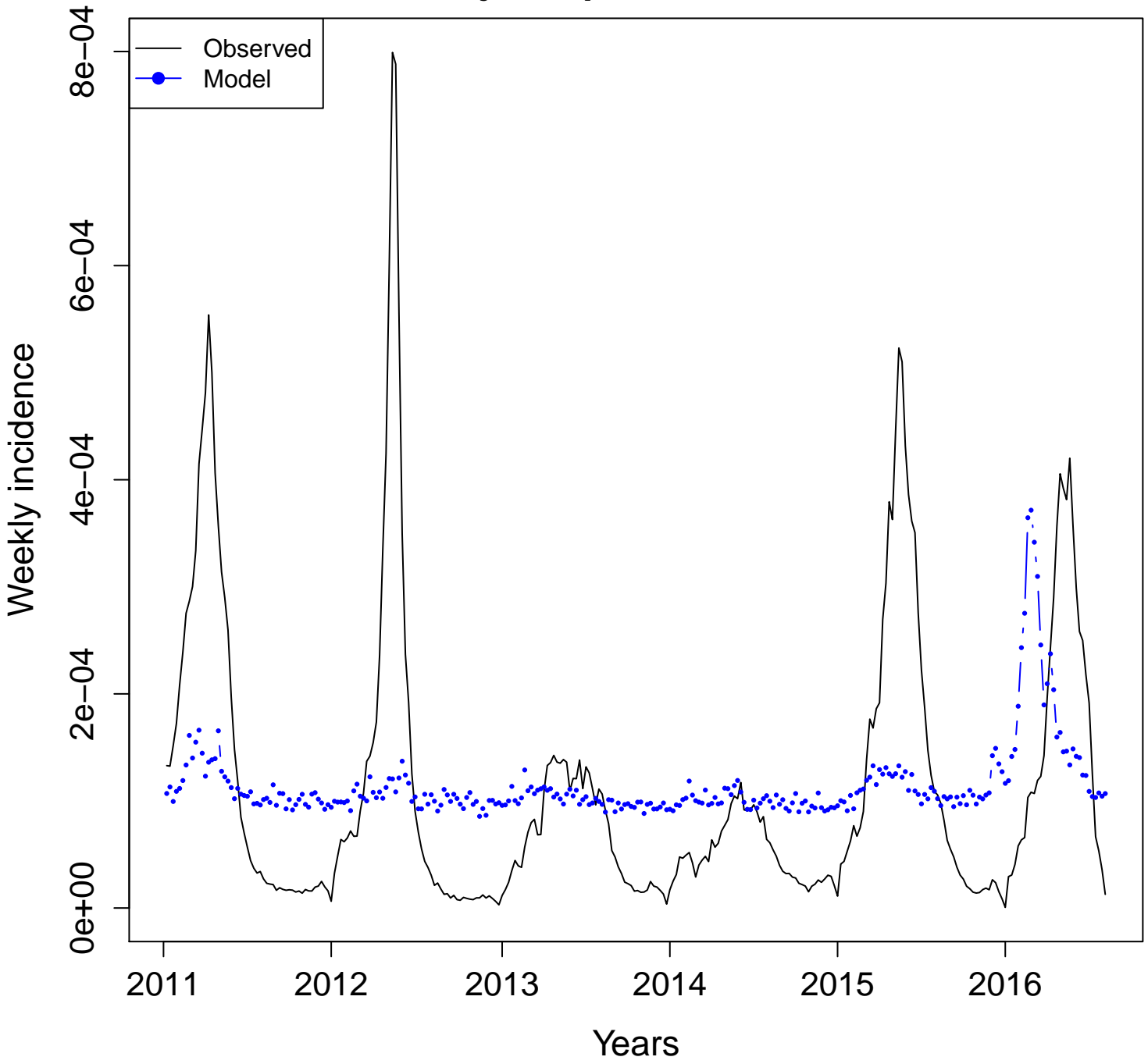


CE- mosquito.dengue
Adj. R squared = 0.0959

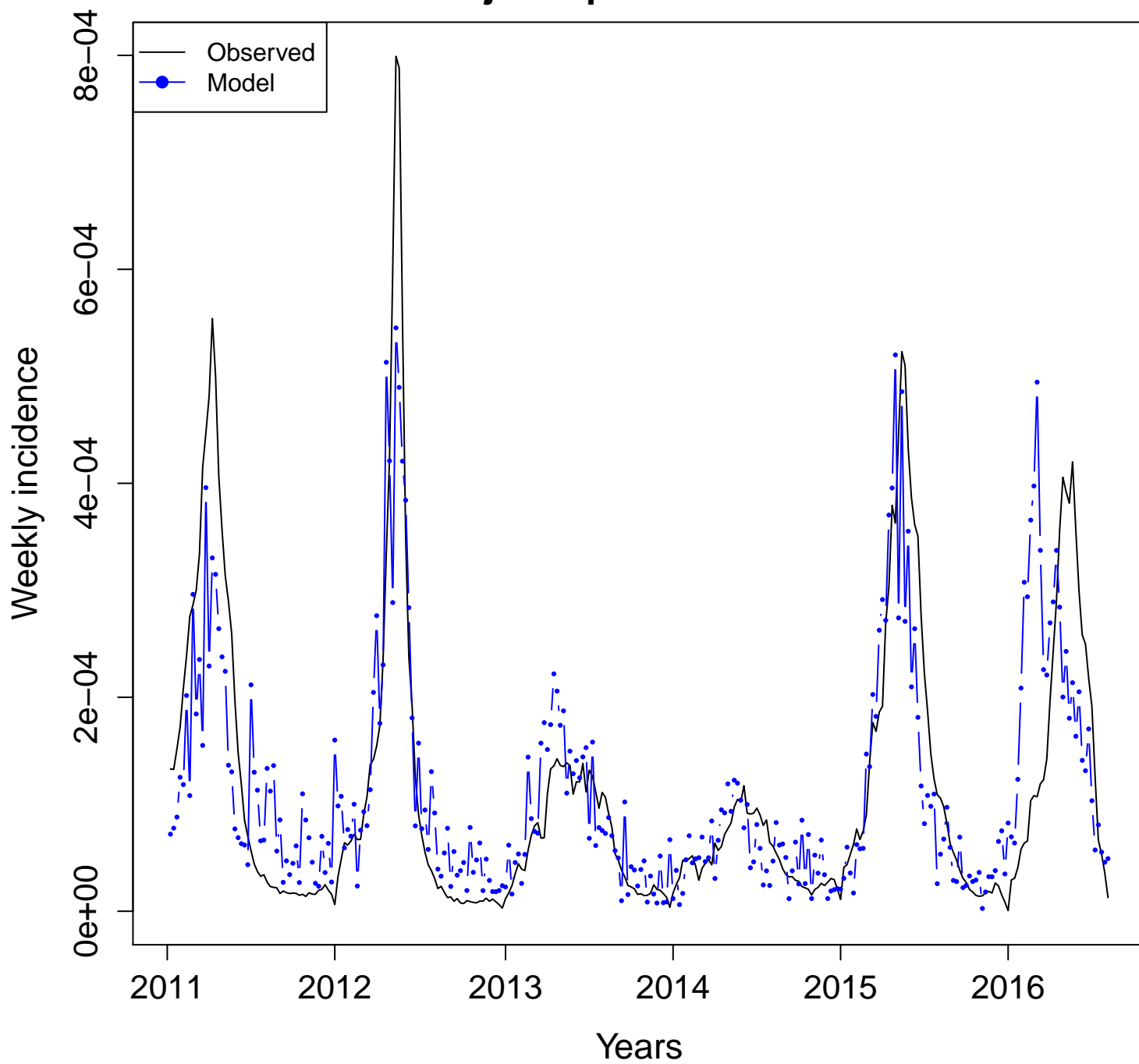


CE- mosquito

Adj. R squared = 0.0701



CE- sintomas.da.dengue
Adj. R squared = 0.6182



Distrito Federal (DF)

Dengue incidence vs. Google Health Trends (2014–2016)

Definitions:

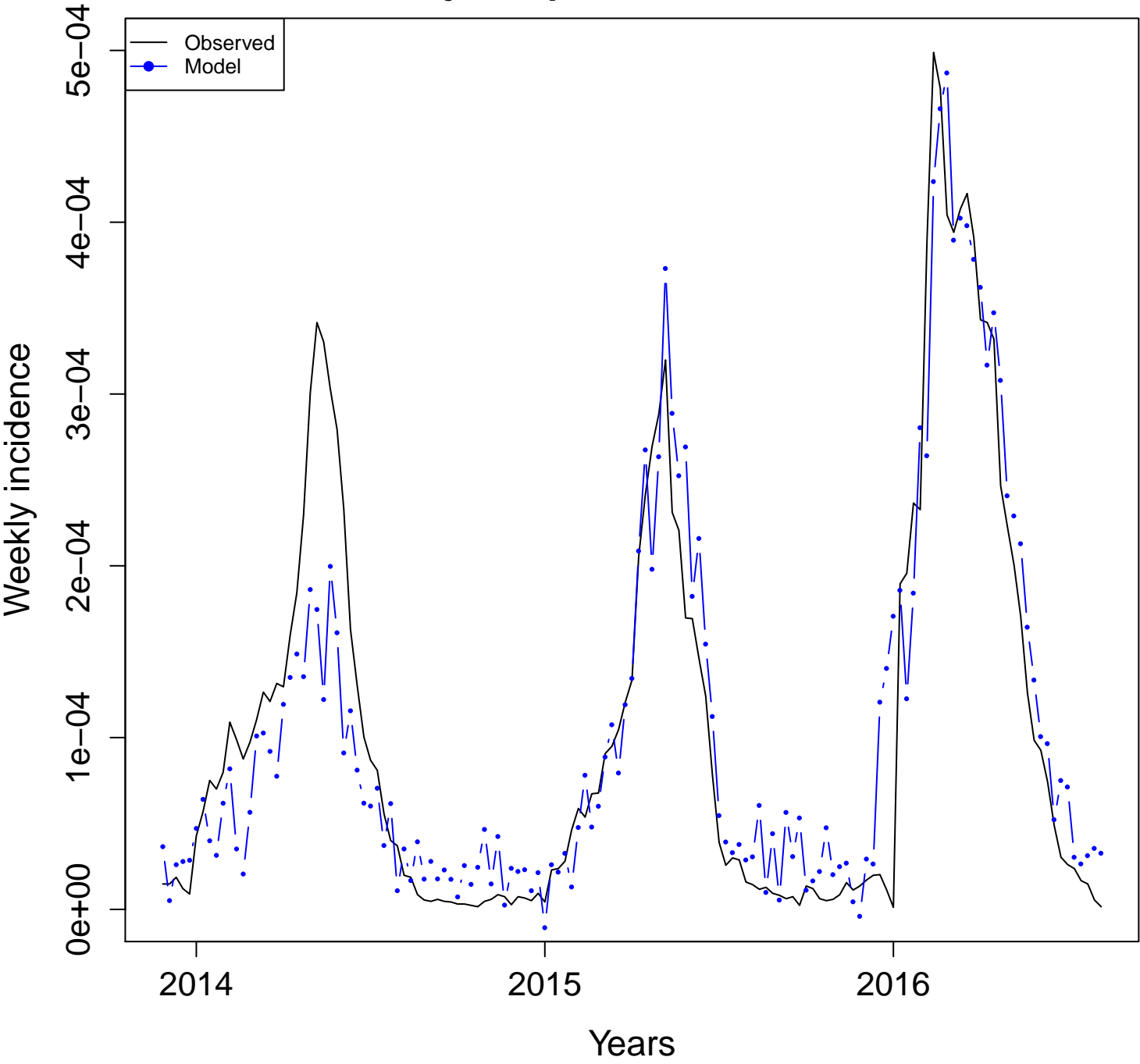
- **Combined terms:**
 - **All:** model with all the available terms. n = number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. n = number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

**Combined terms
Adjusted R Squared**

Distrito Federal (DF)

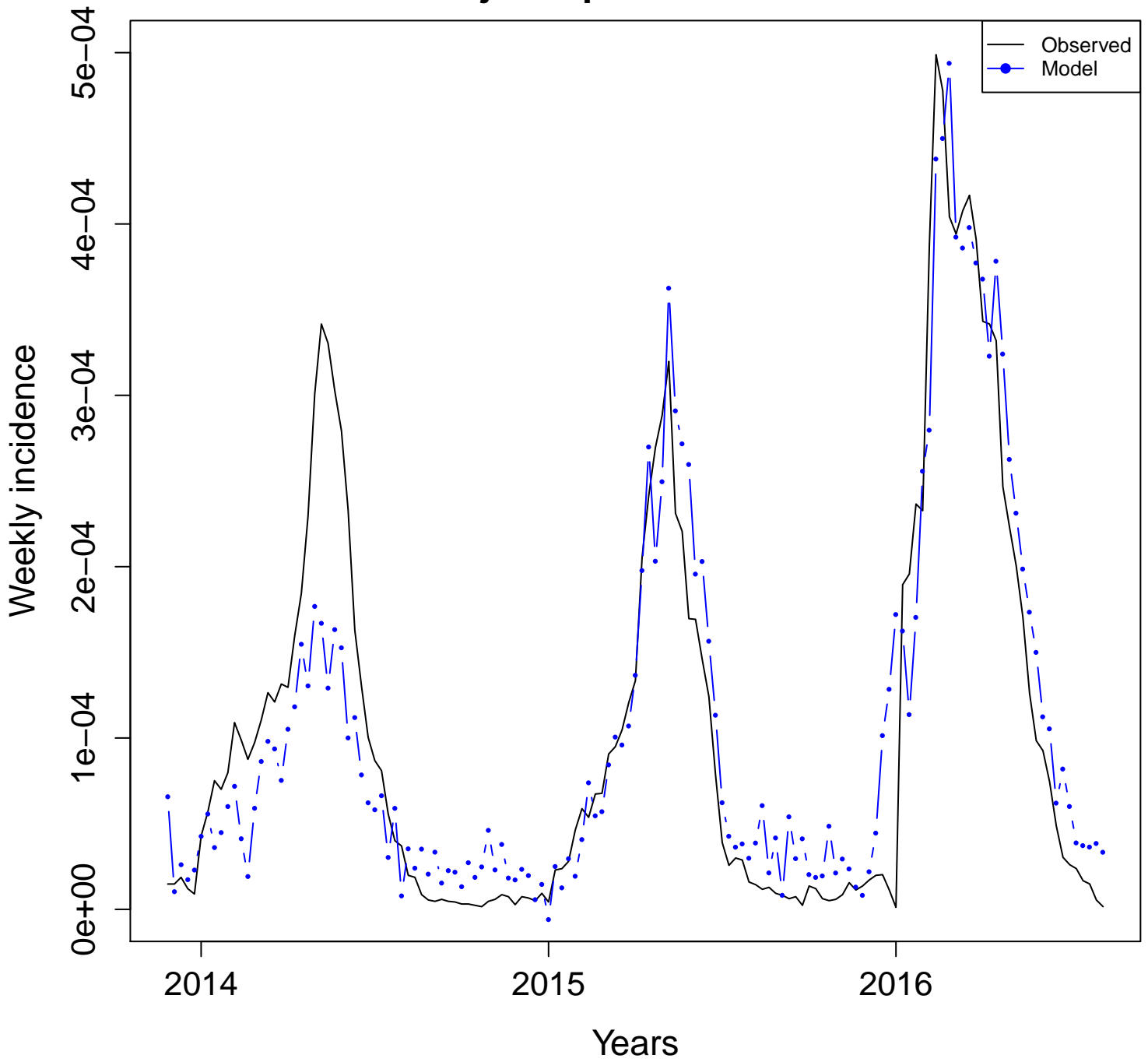
**All terms
(n = 10)**

**BR-DF
Adj. R squared = 0.8289458**



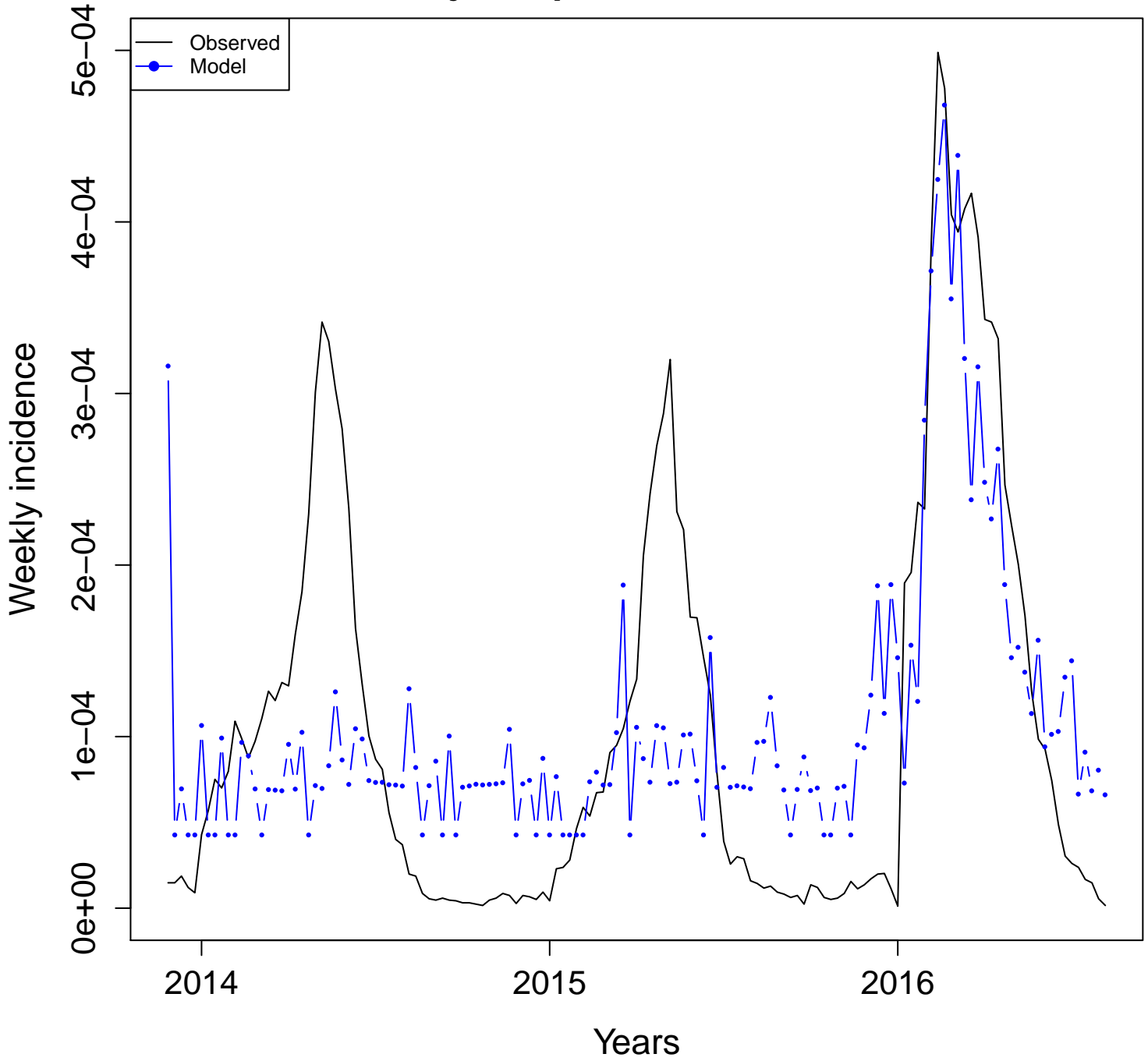
Four terms

BR-DF
Adj. R squared = 0.8297



Uncorrelated (n = 2)

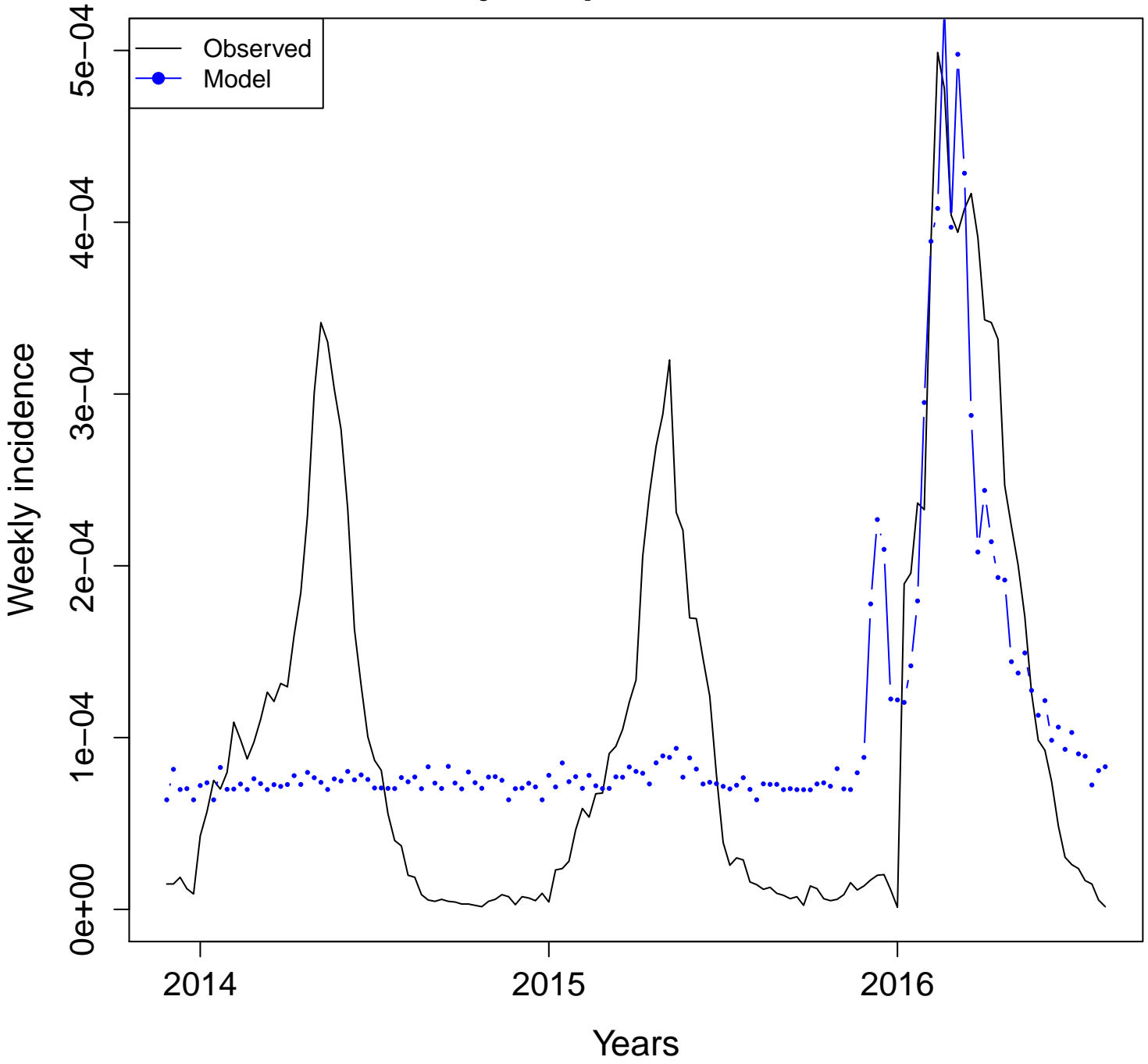
BR-DF
Adj. R squared = 0.432886



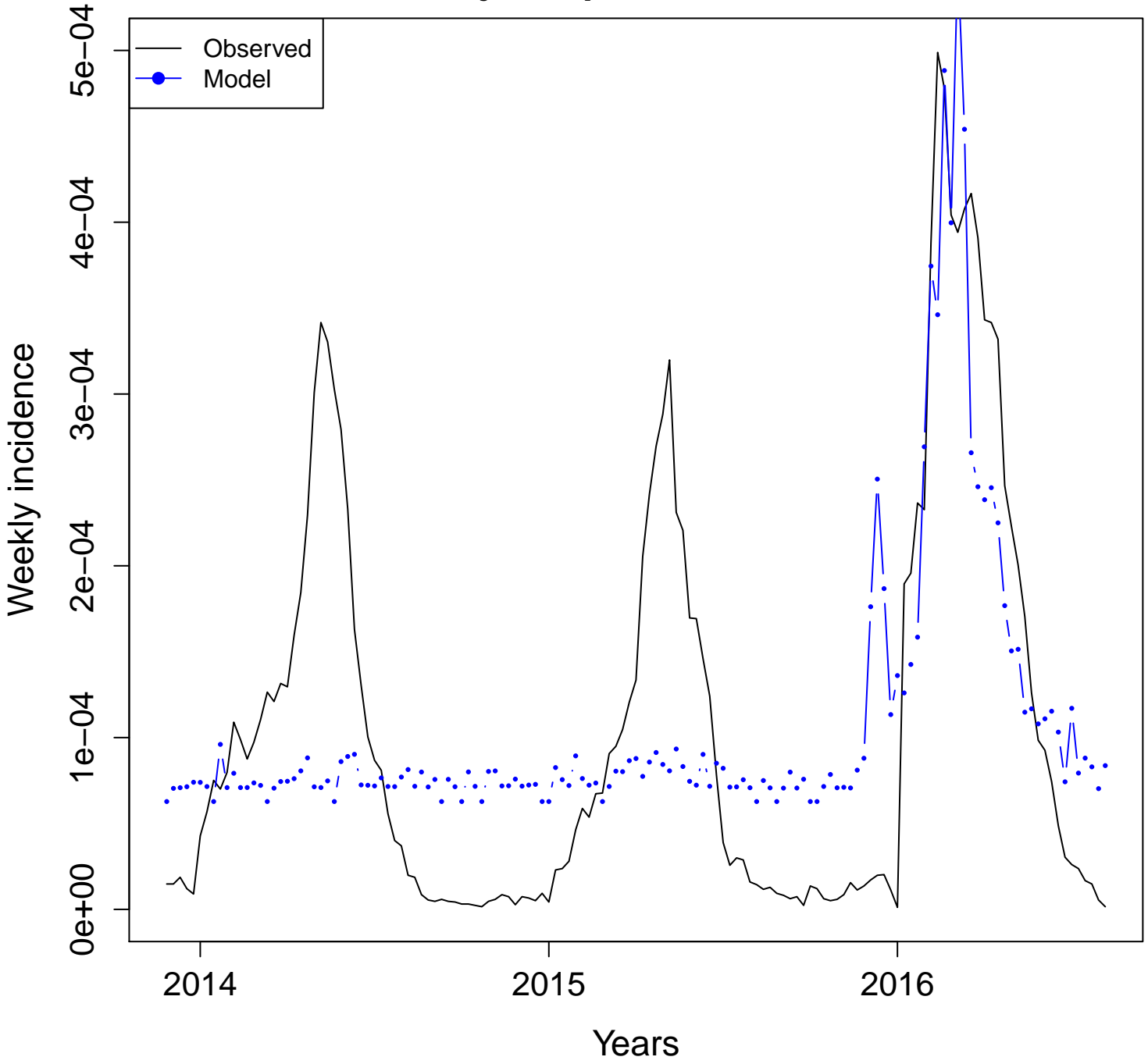
Individual terms
Adjusted R Squared

Distrito Federal (DF)

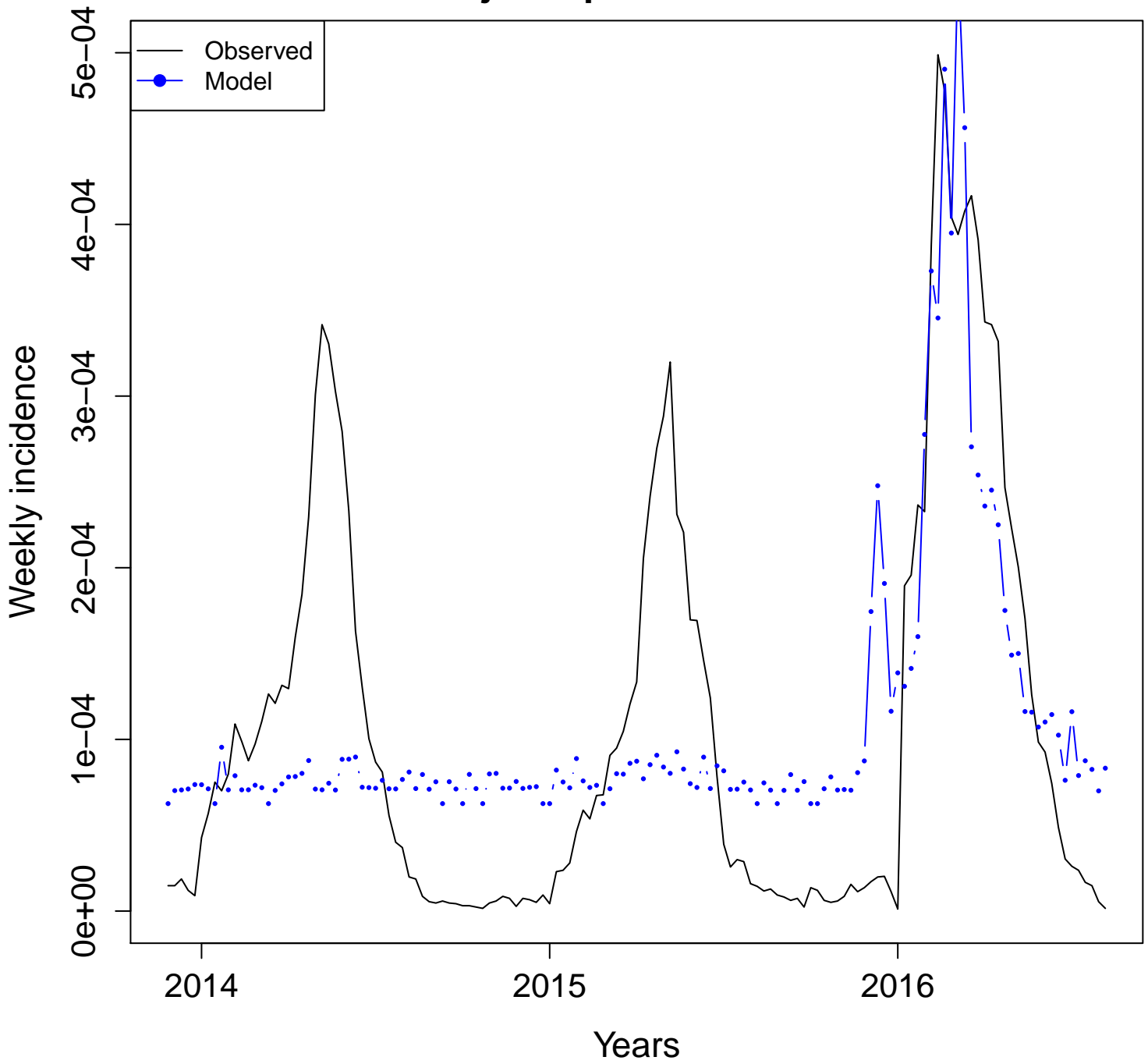
DF- aedes
Adj. R squared = 0.4554



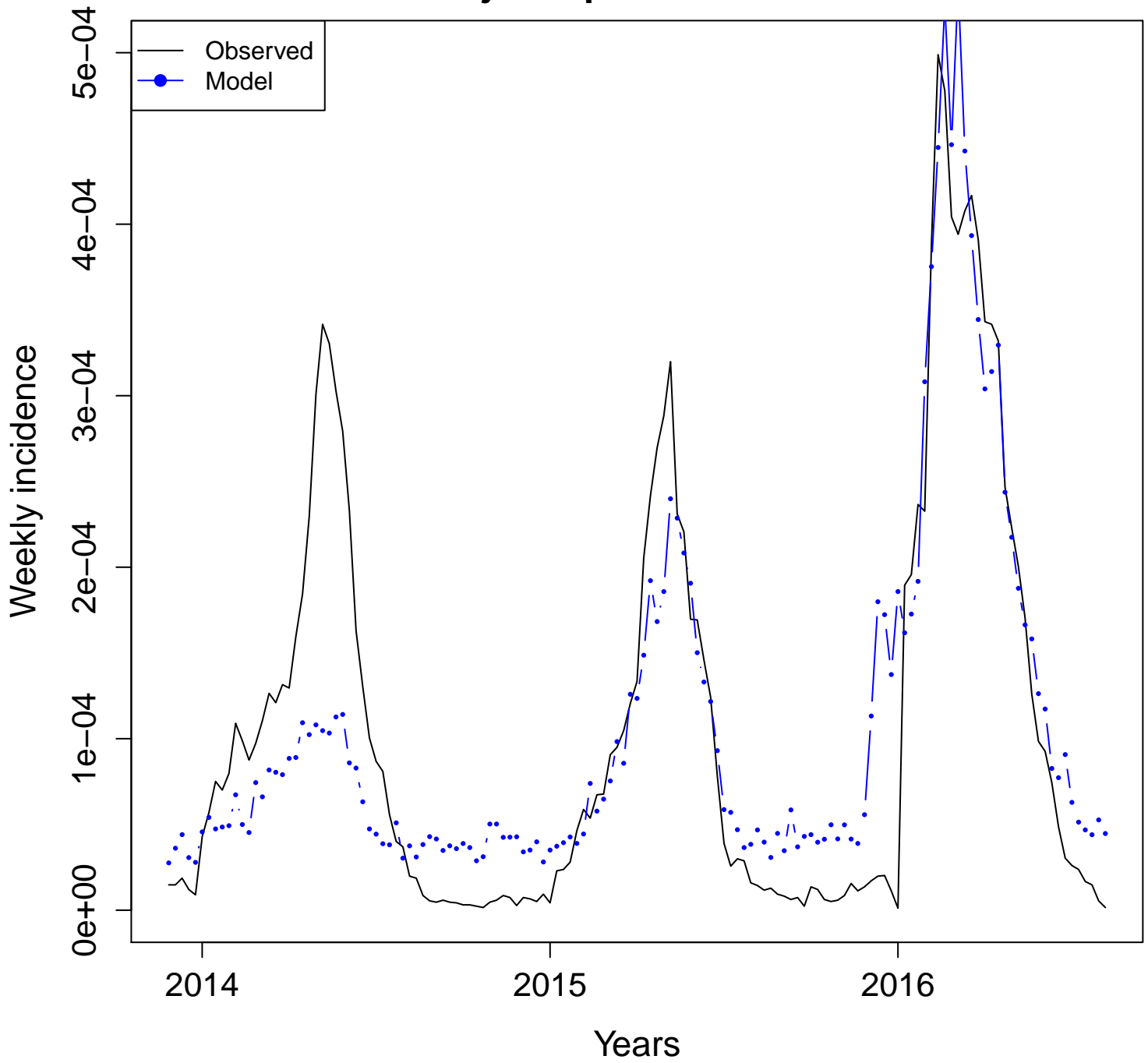
DF- aedes.aegypti
Adj. R squared = 0.4535



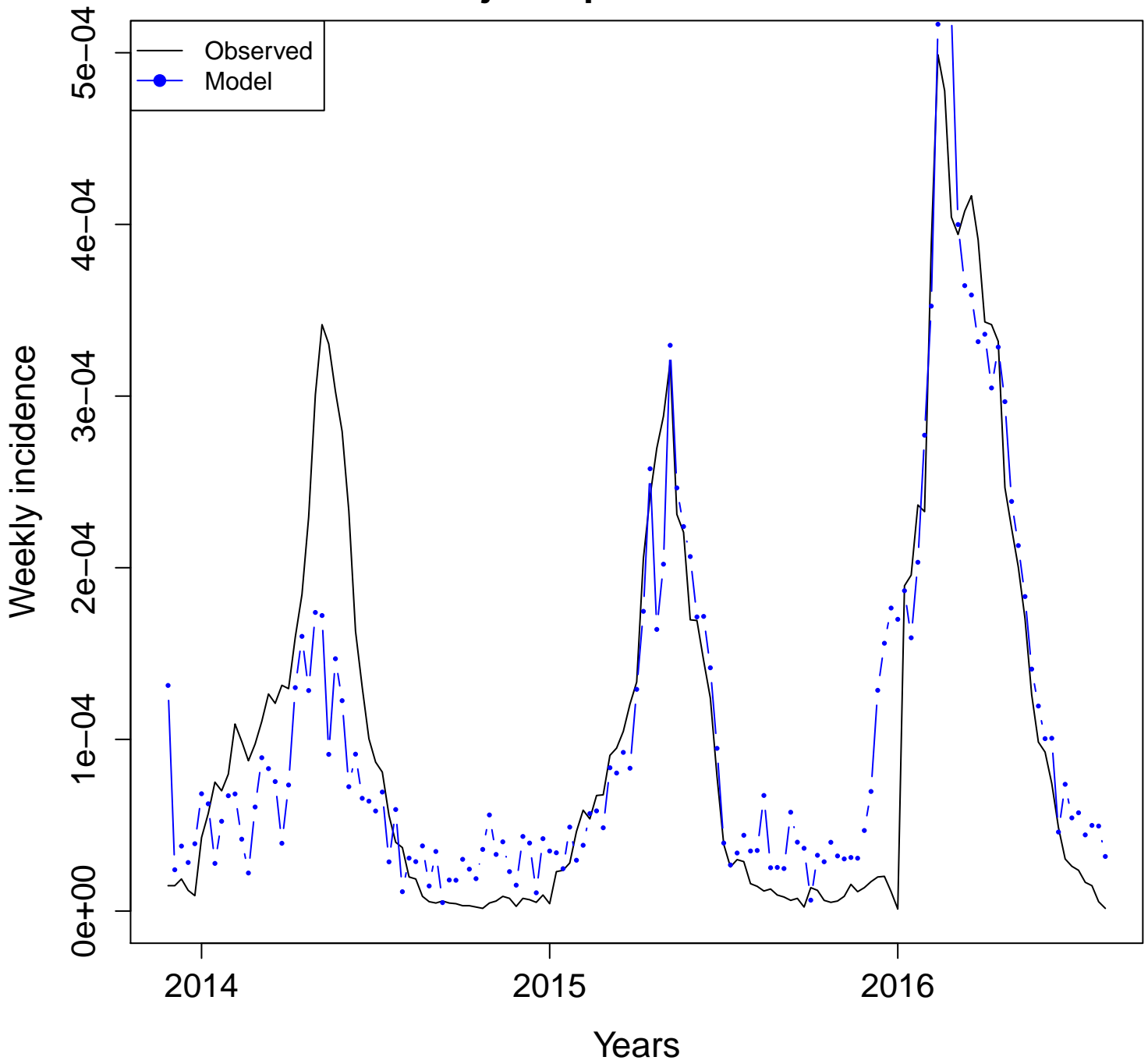
DF- aegypti
Adj. R squared = 0.4564



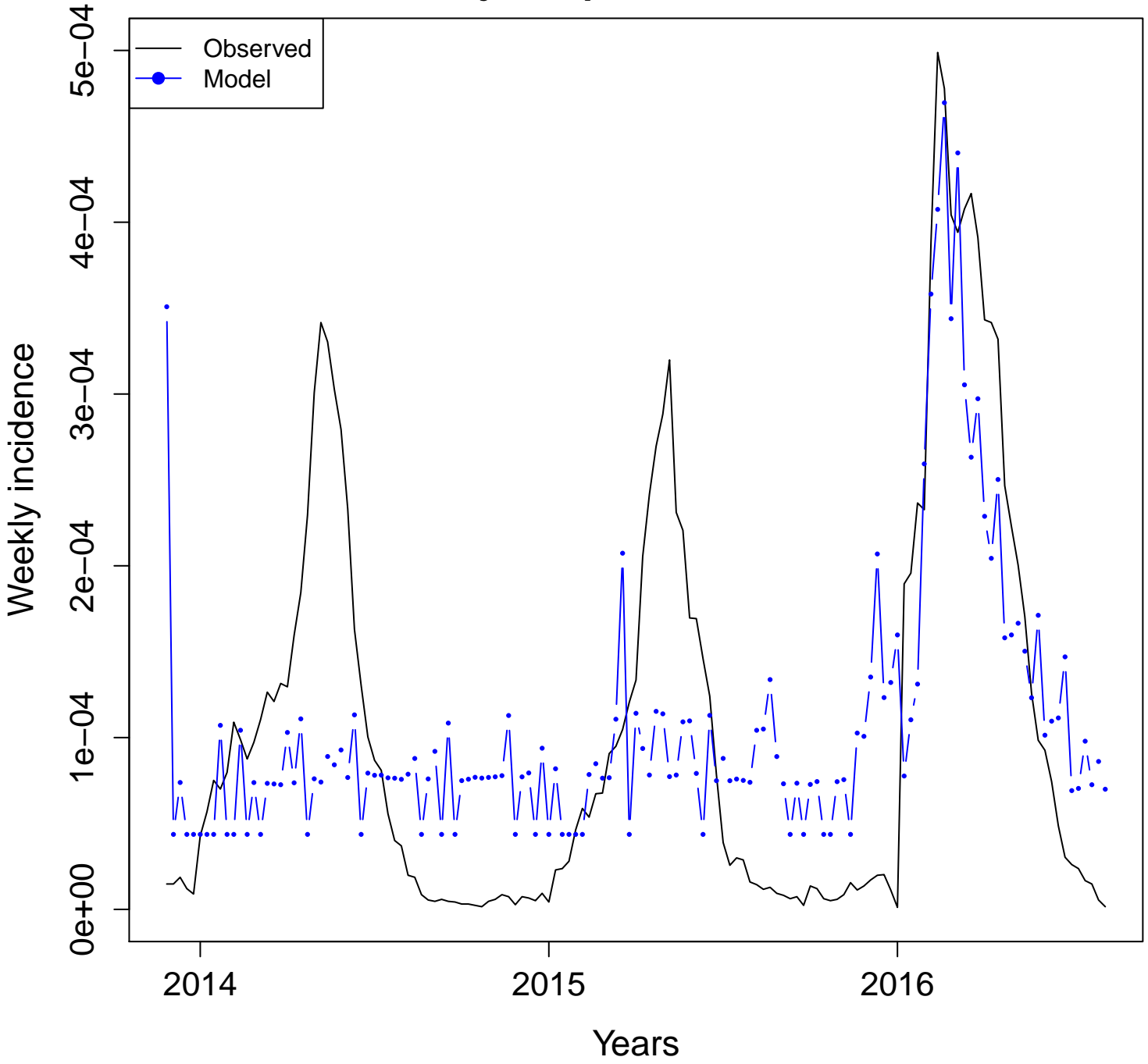
DF- dengue
Adj. R squared = 0.7404



DF- dengue.sintomas
Adj. R squared = 0.7916

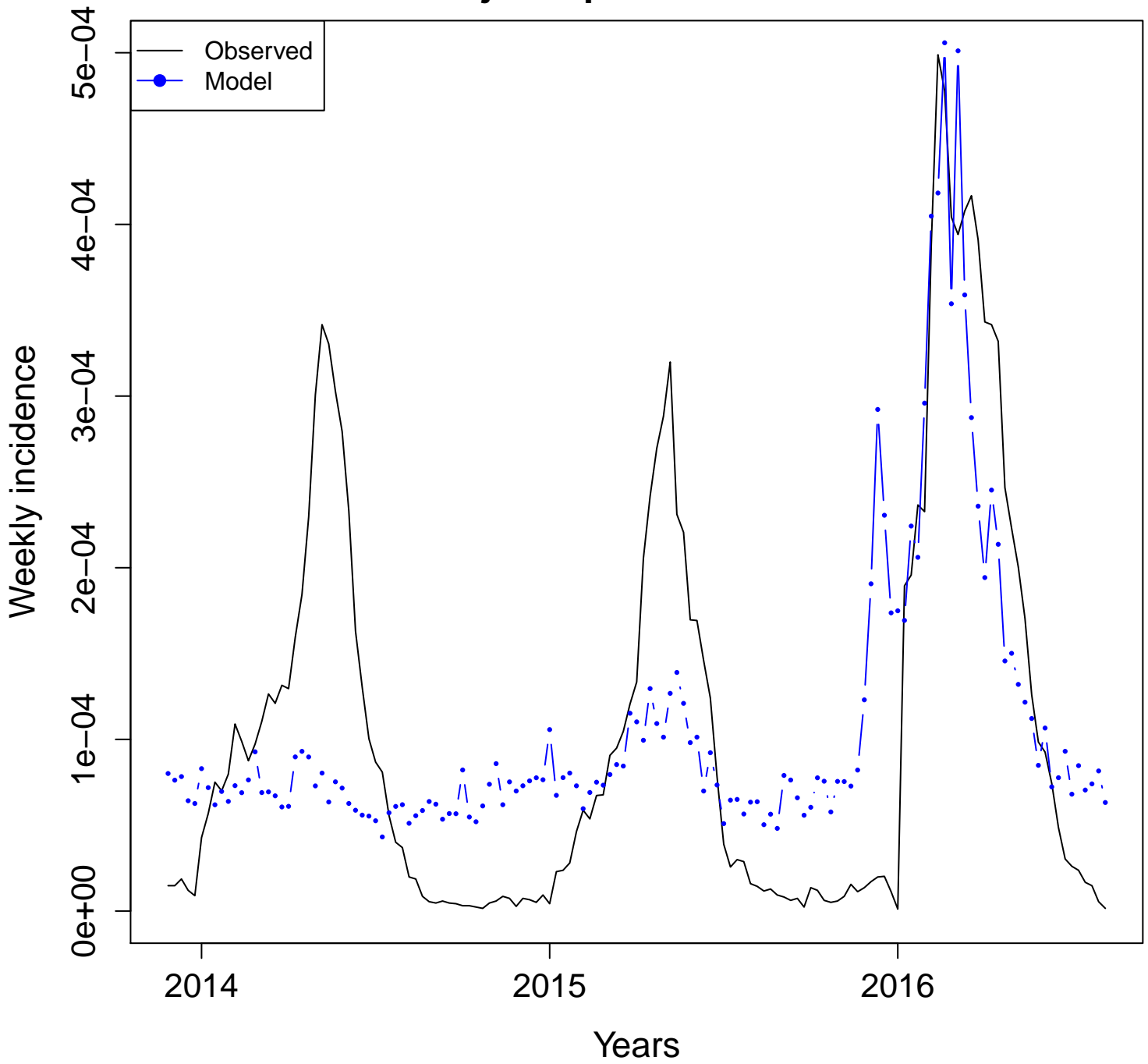


DF- dengue.virus
Adj. R squared = 0.4185

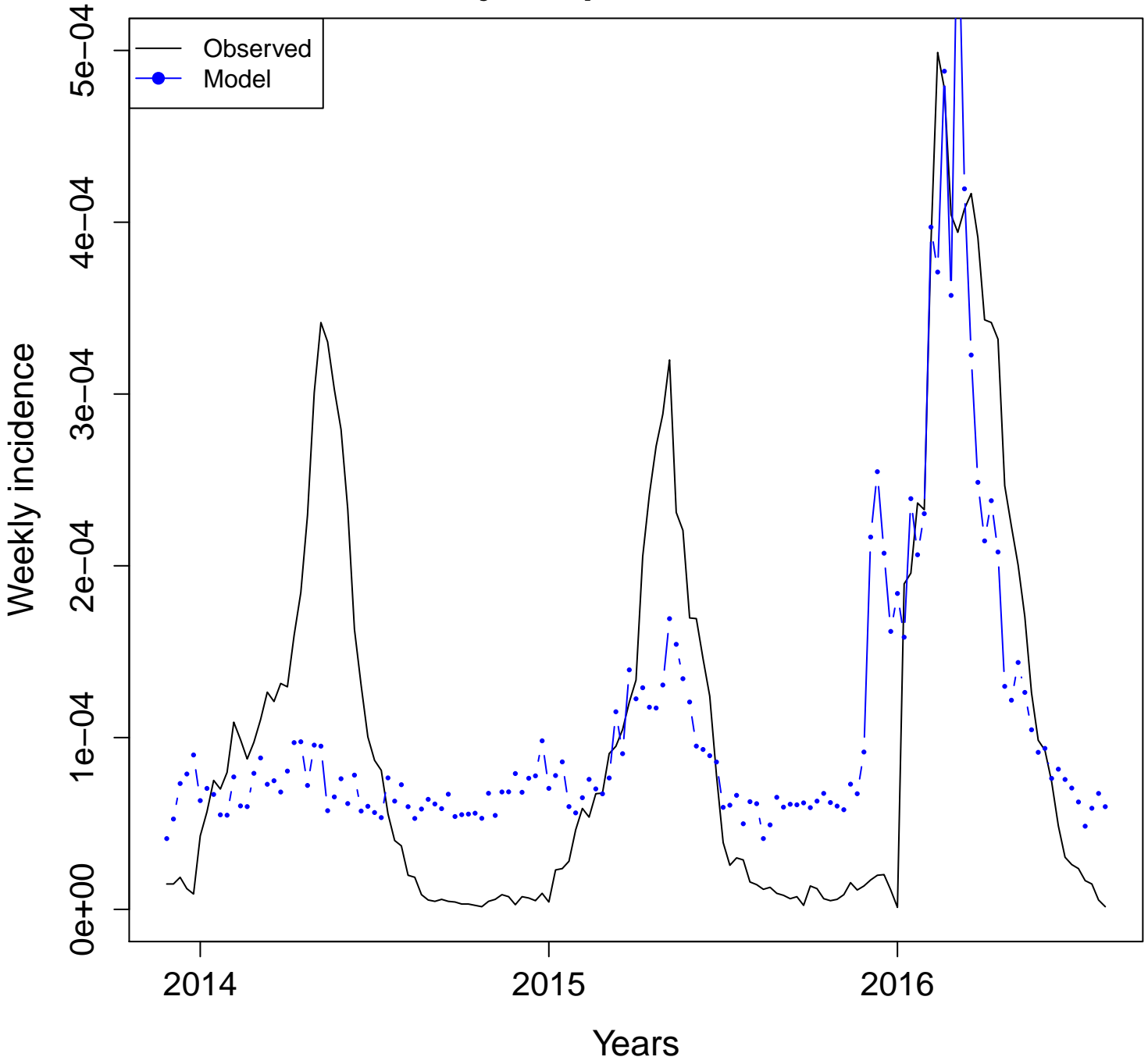


DF- mosquito

Adj. R squared = 0.4719

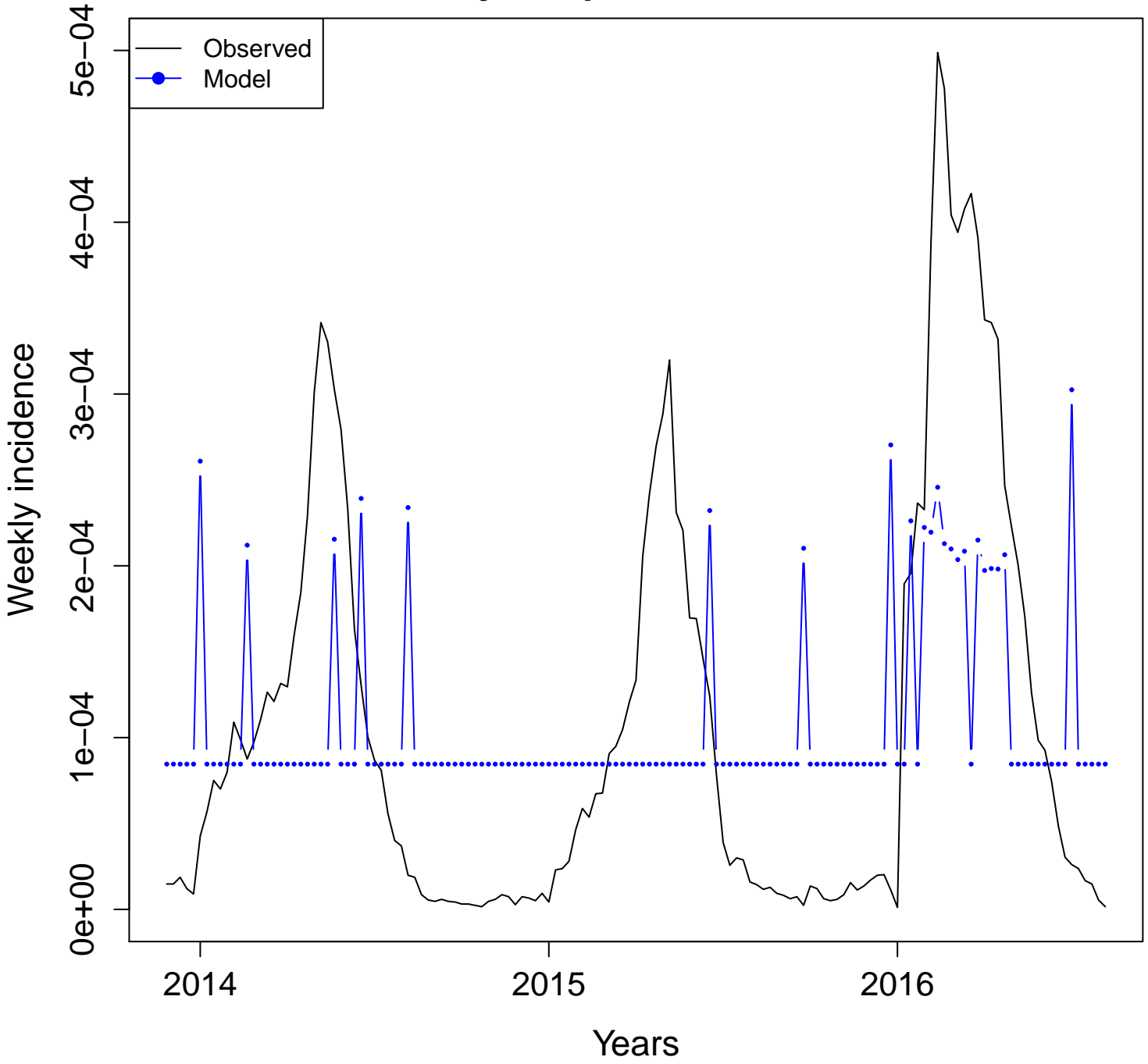


DF- mosquito.dengue
Adj. R squared = 0.5131

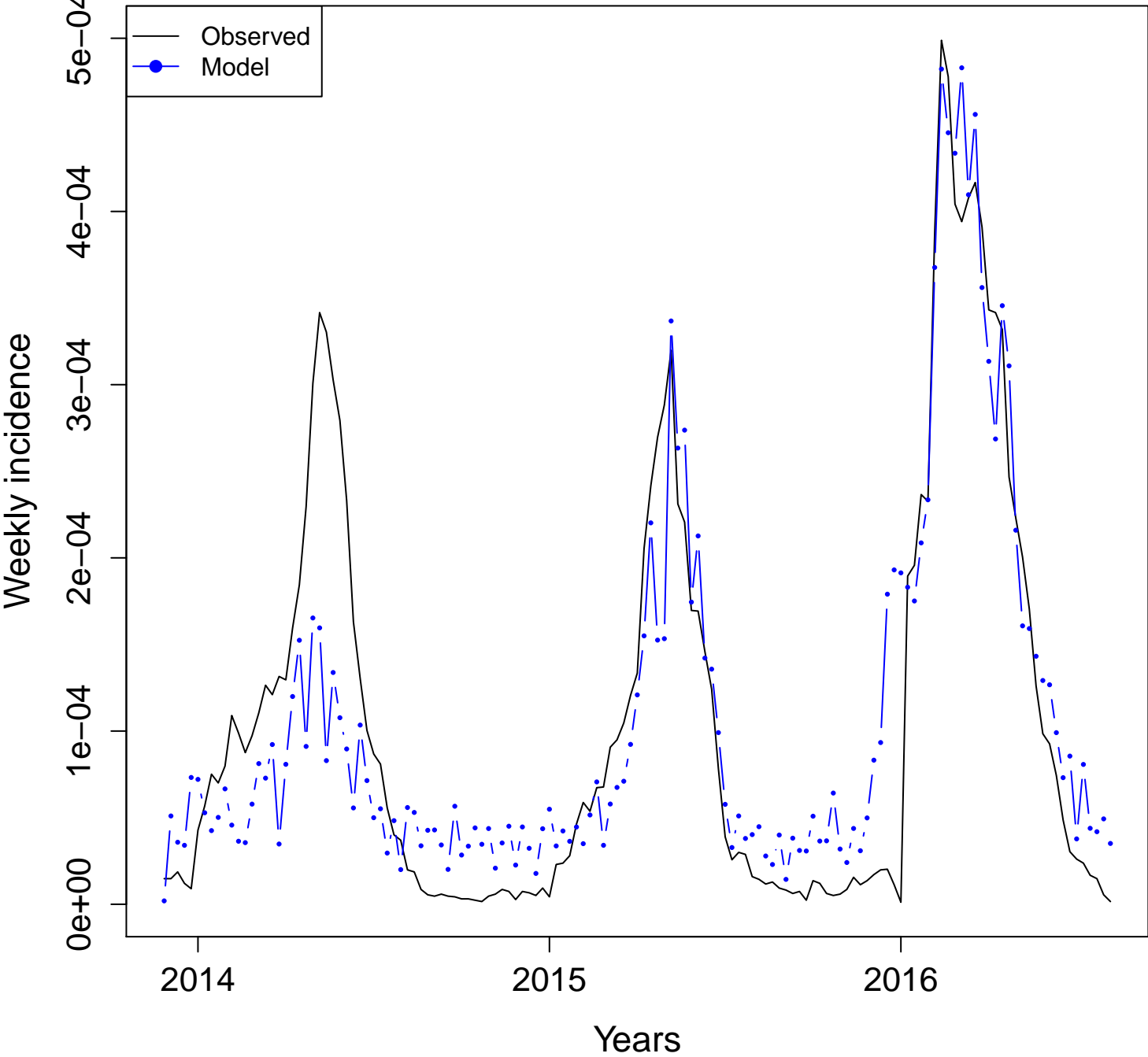


DF- mosquitoes

Adj. R squared = 0.1733



DF- sintomas.da.dengue
Adj. R squared = 0.7613



Espírito Santo (ES)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

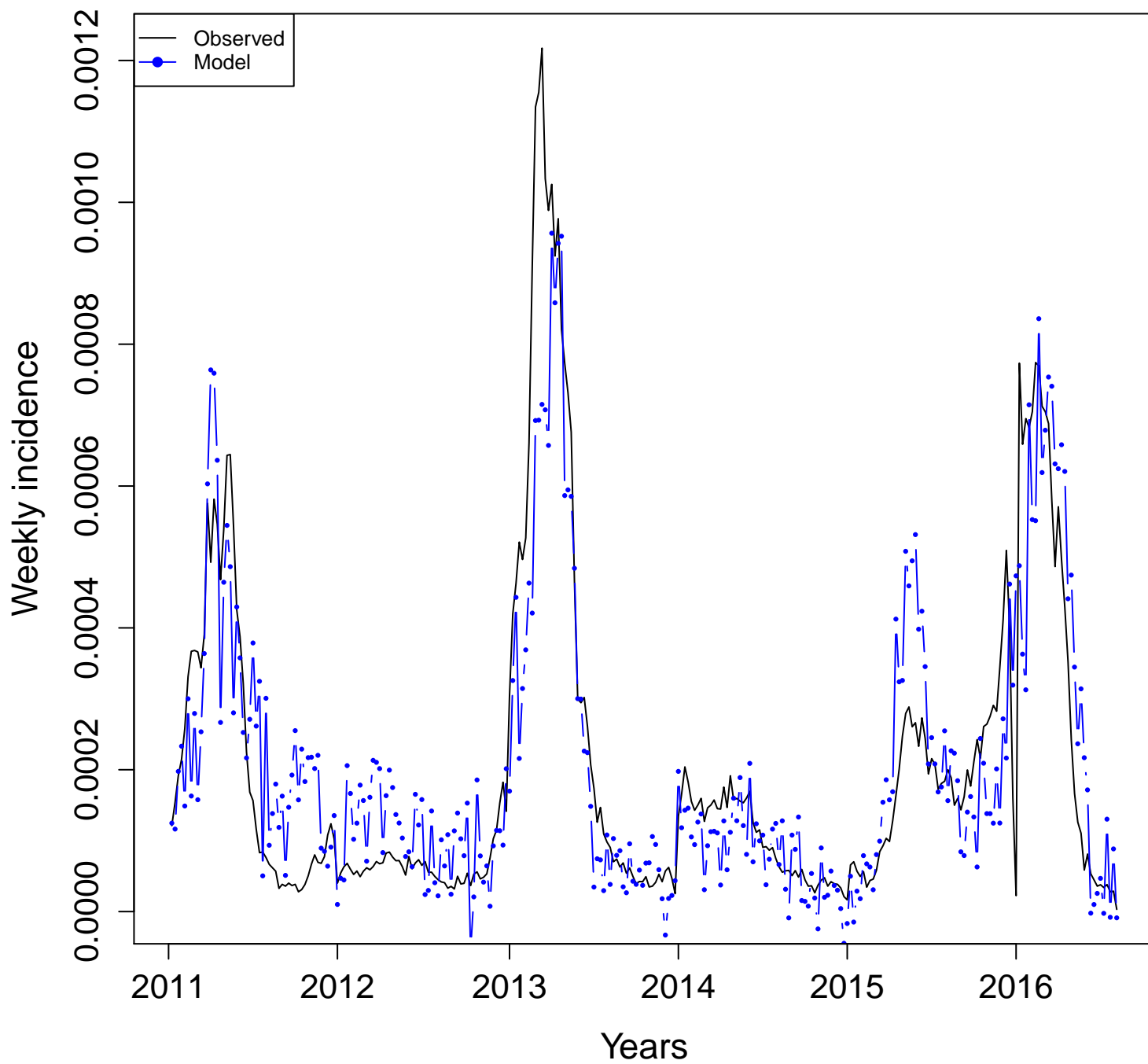
- **Combined terms:**
 - **All:** model with all the available terms. $n =$ number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. $n =$ number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

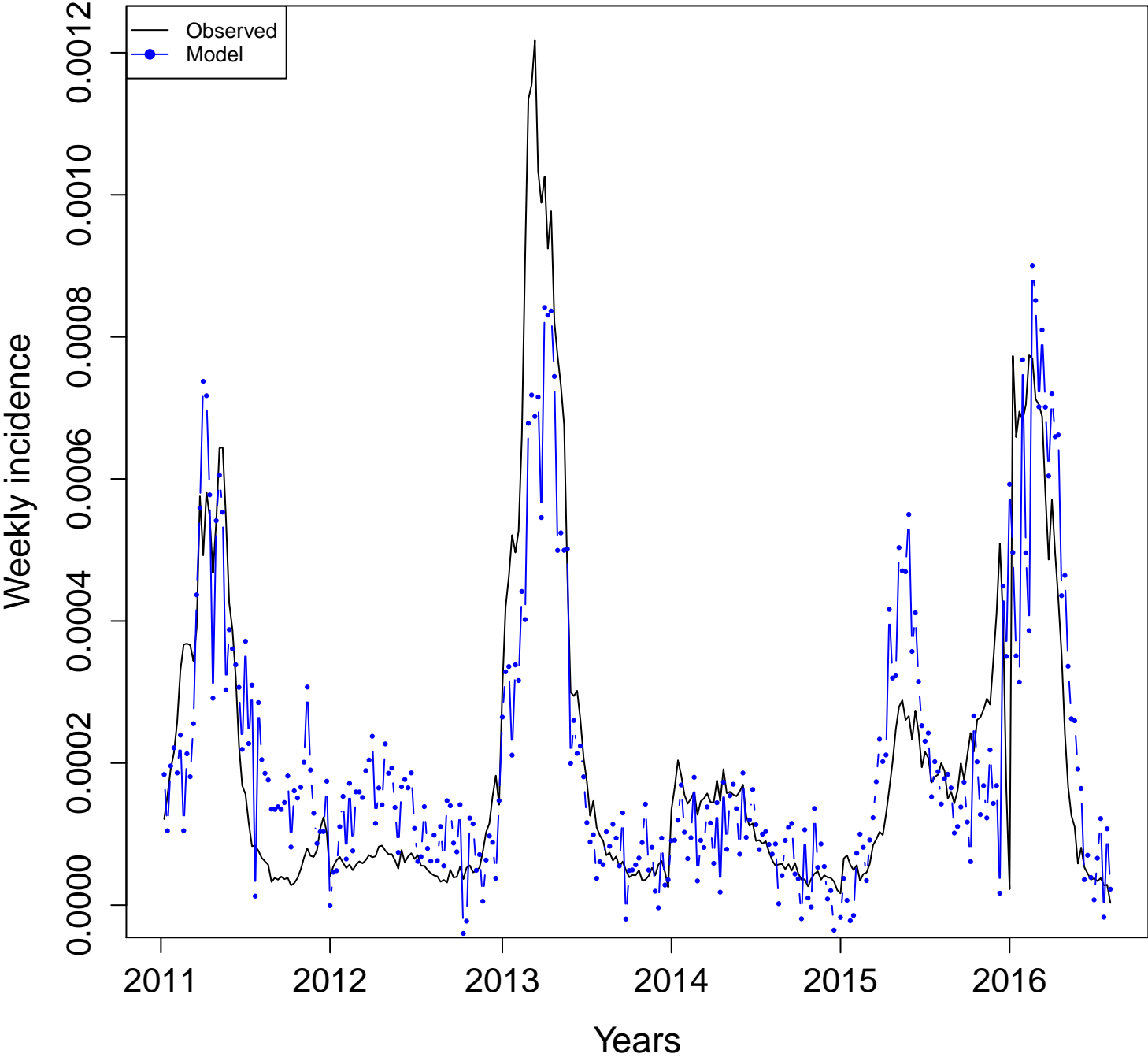
Espírito Santo (ES)

All
(n = 10)

BR-ES
Adj. R squared = 0.7245

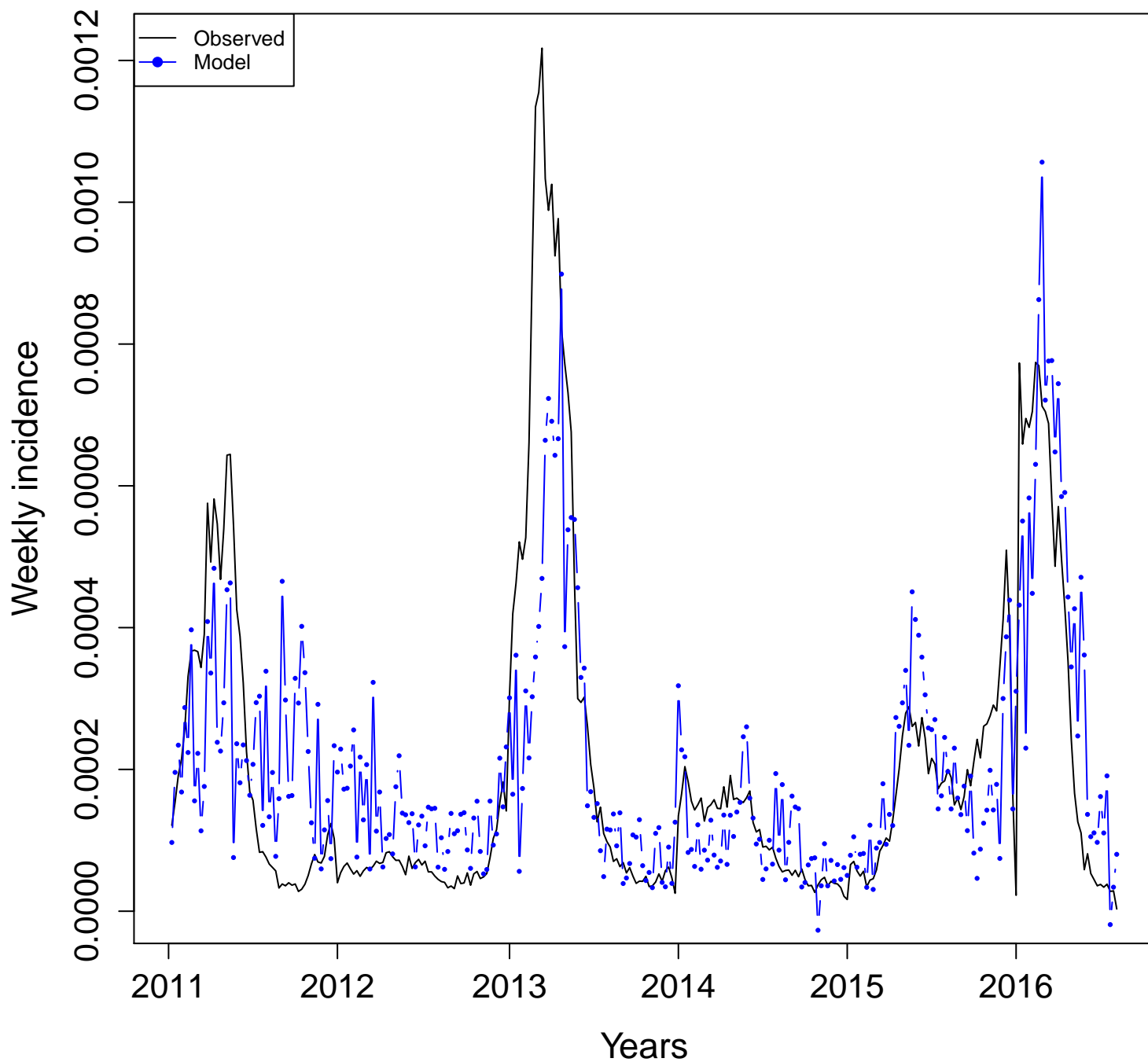


BR-ES
Adj. R squared = 0.688



**Uncorrelated
(n = 3)**

**BR-ES
Adj. R squared = 0.5366**

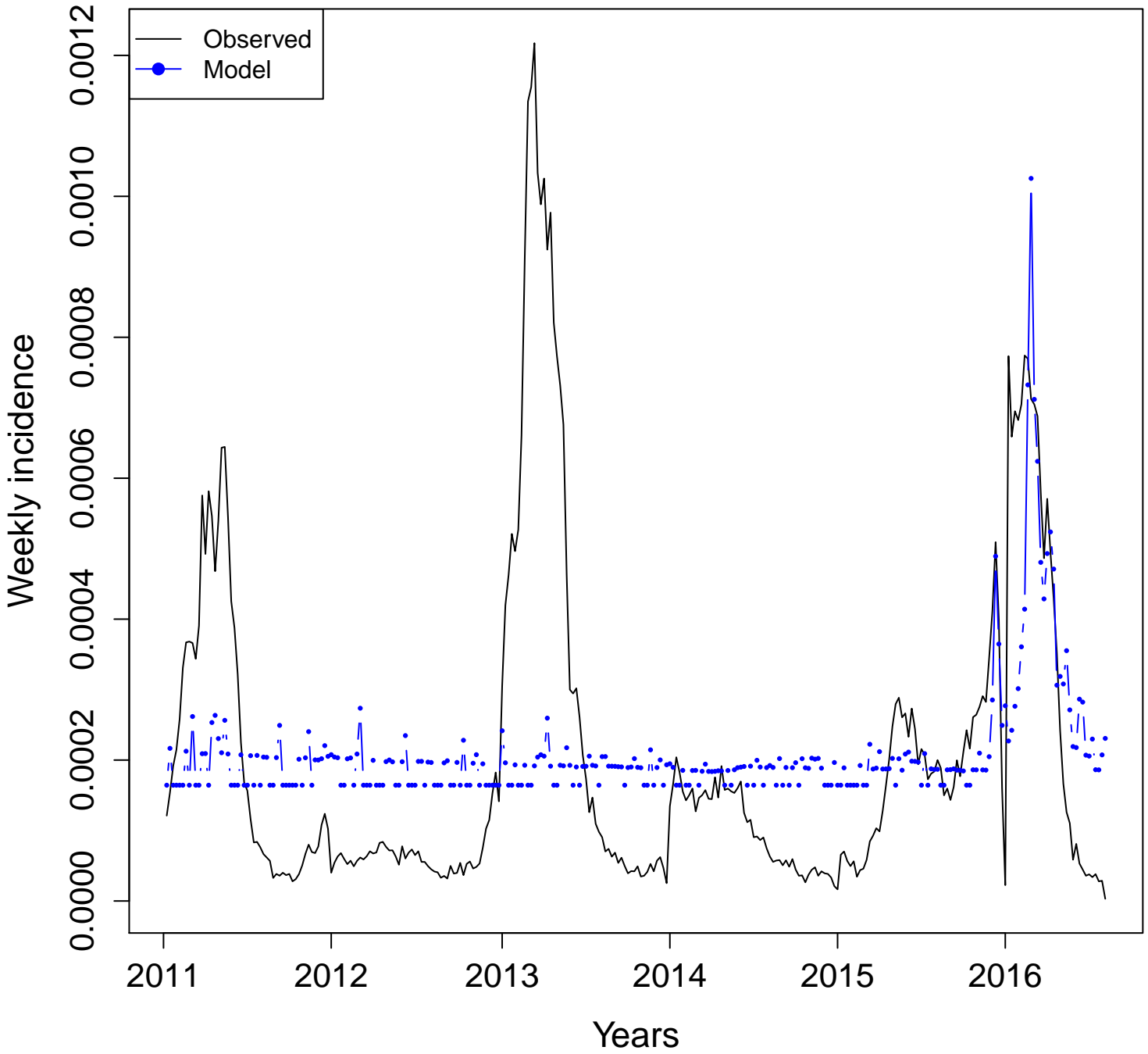


Individual terms
Adjusted R squared

Espírito Santo (ES)

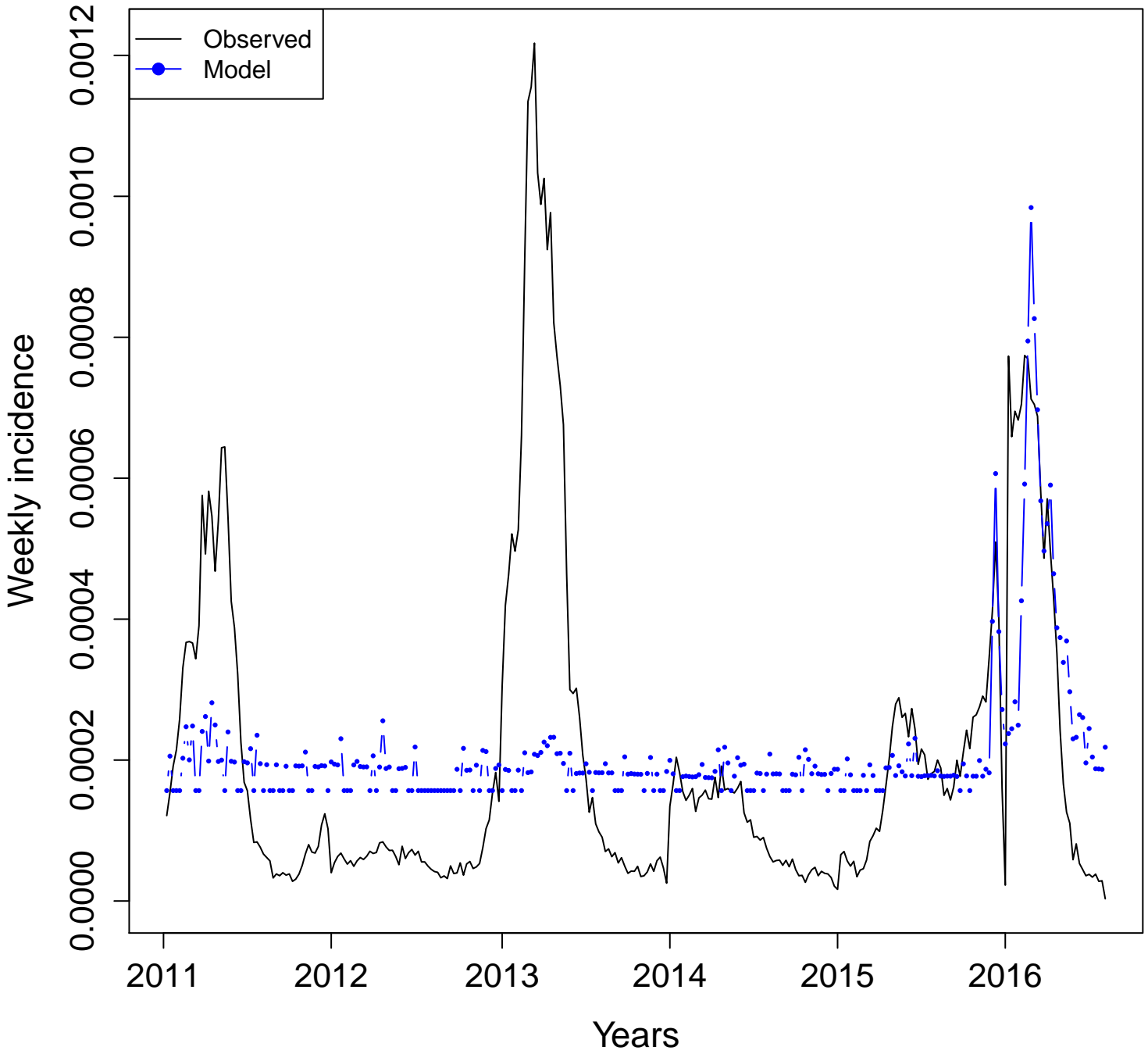
ES- aedes.aegypti

Adj. R squared = 0.1333

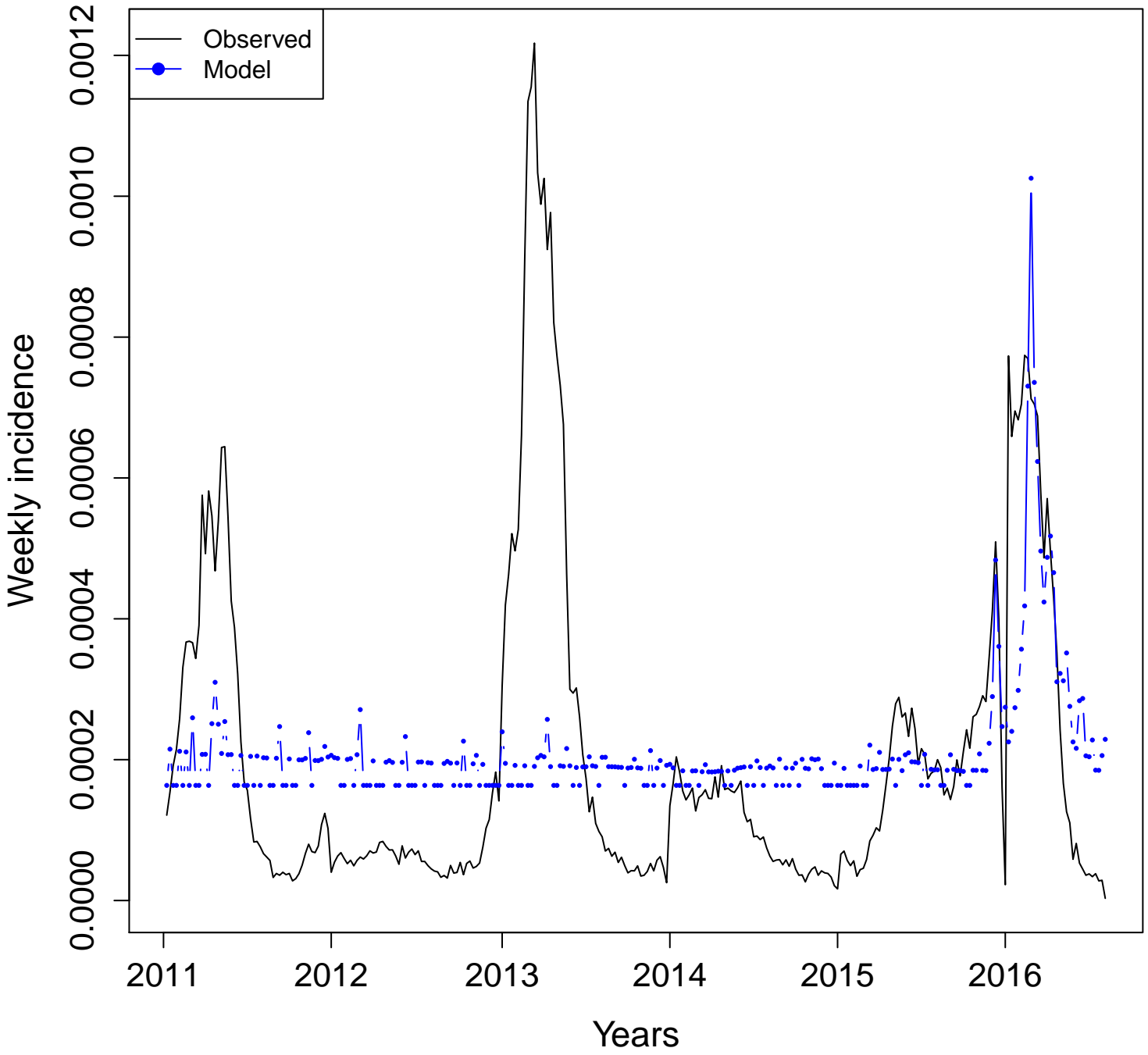


ES- aedes

Adj. R squared = 0.1763

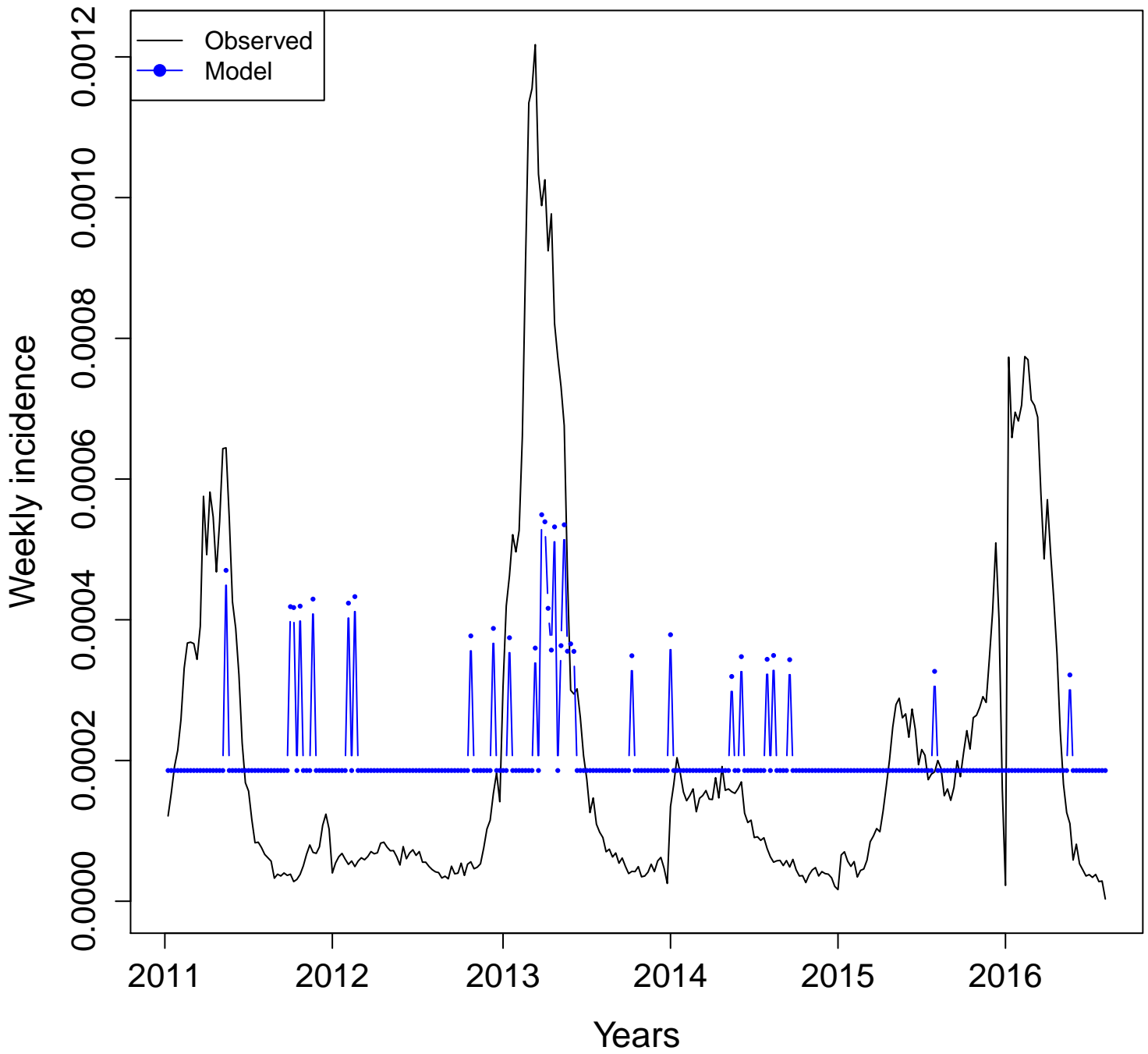


ES- aegypti
Adj. R squared = 0.1349



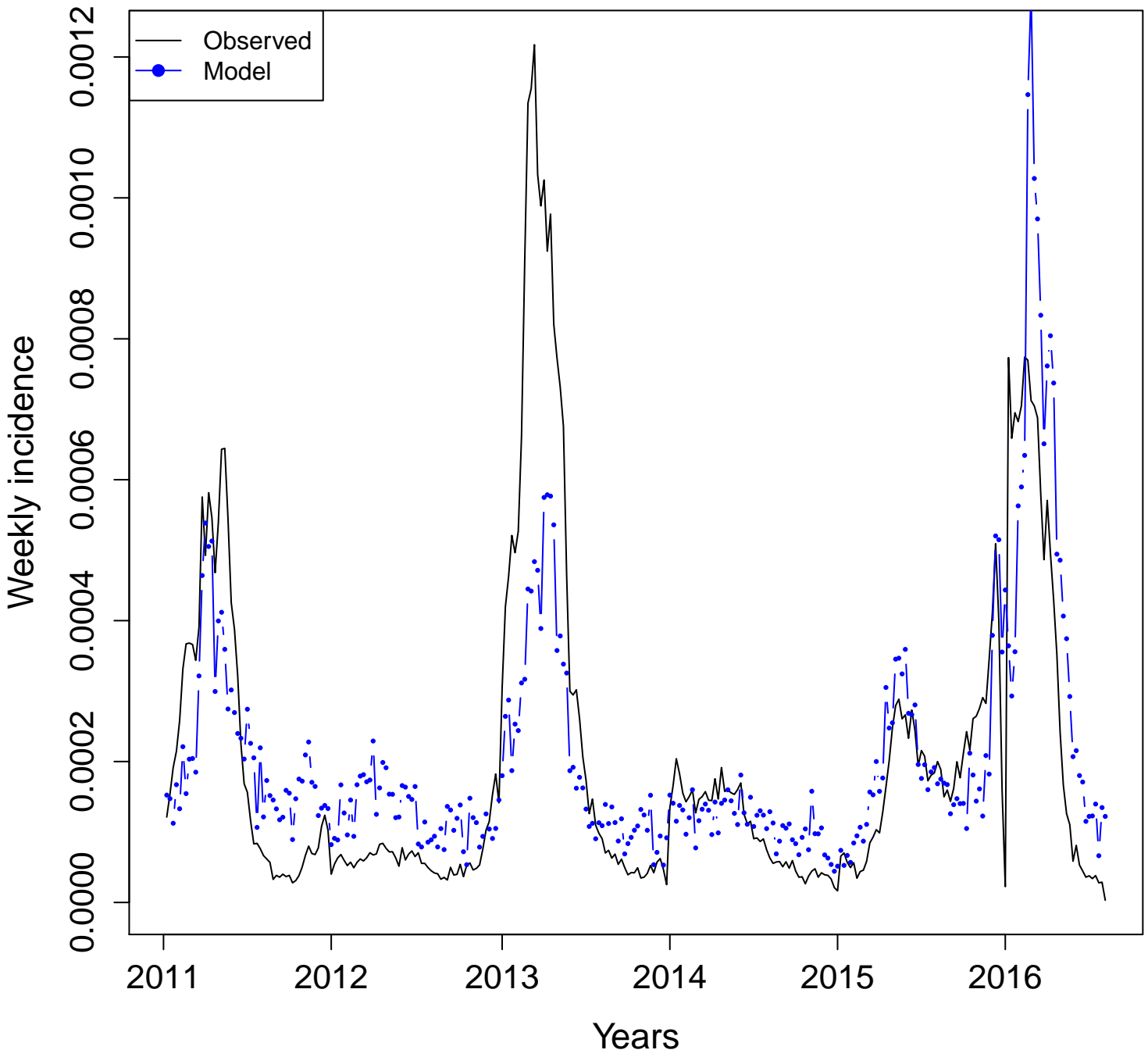
ES- dengue.fever

Adj. R squared = 0.0782

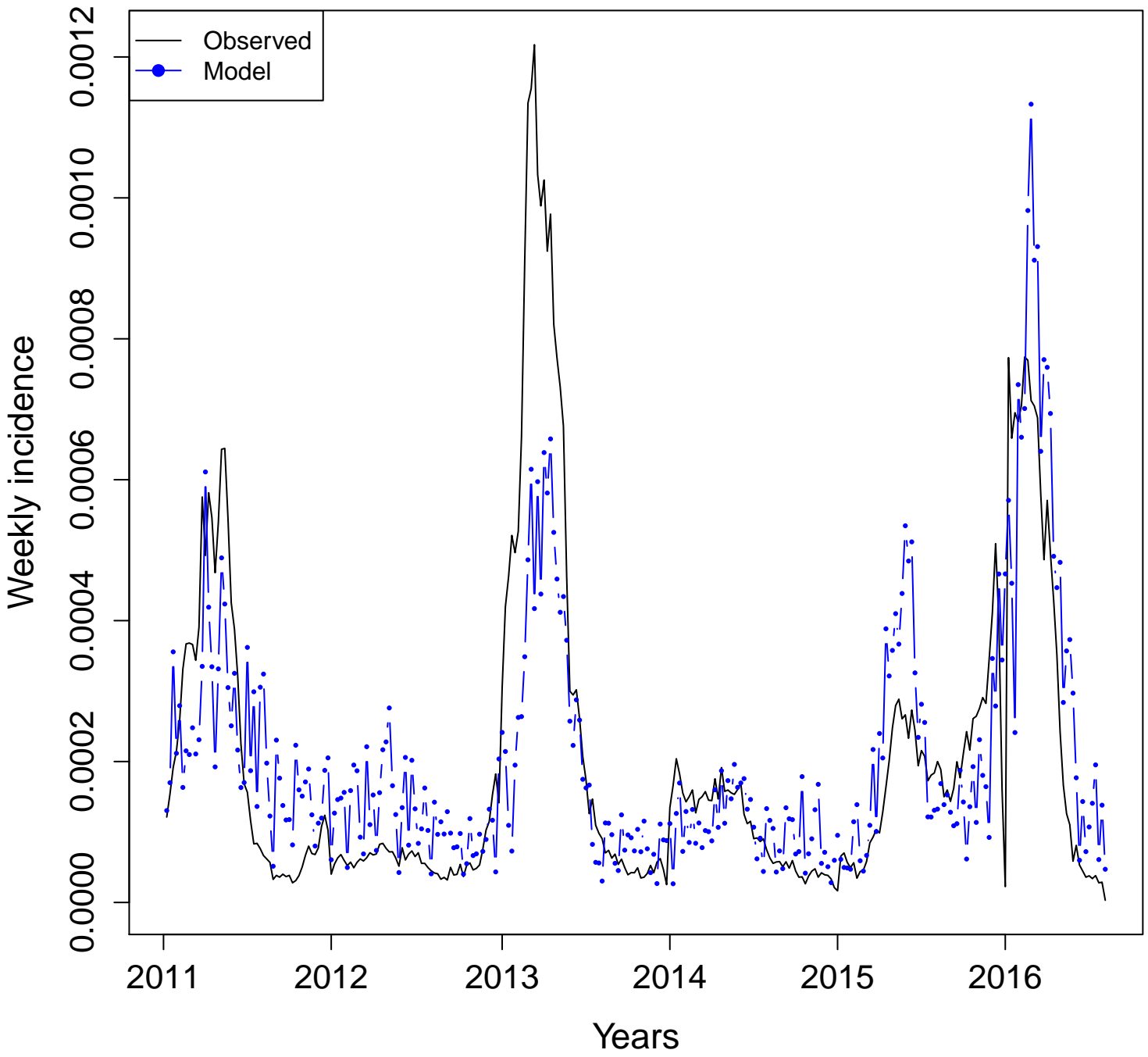


ES- dengue

Adj. R squared = 0.5461

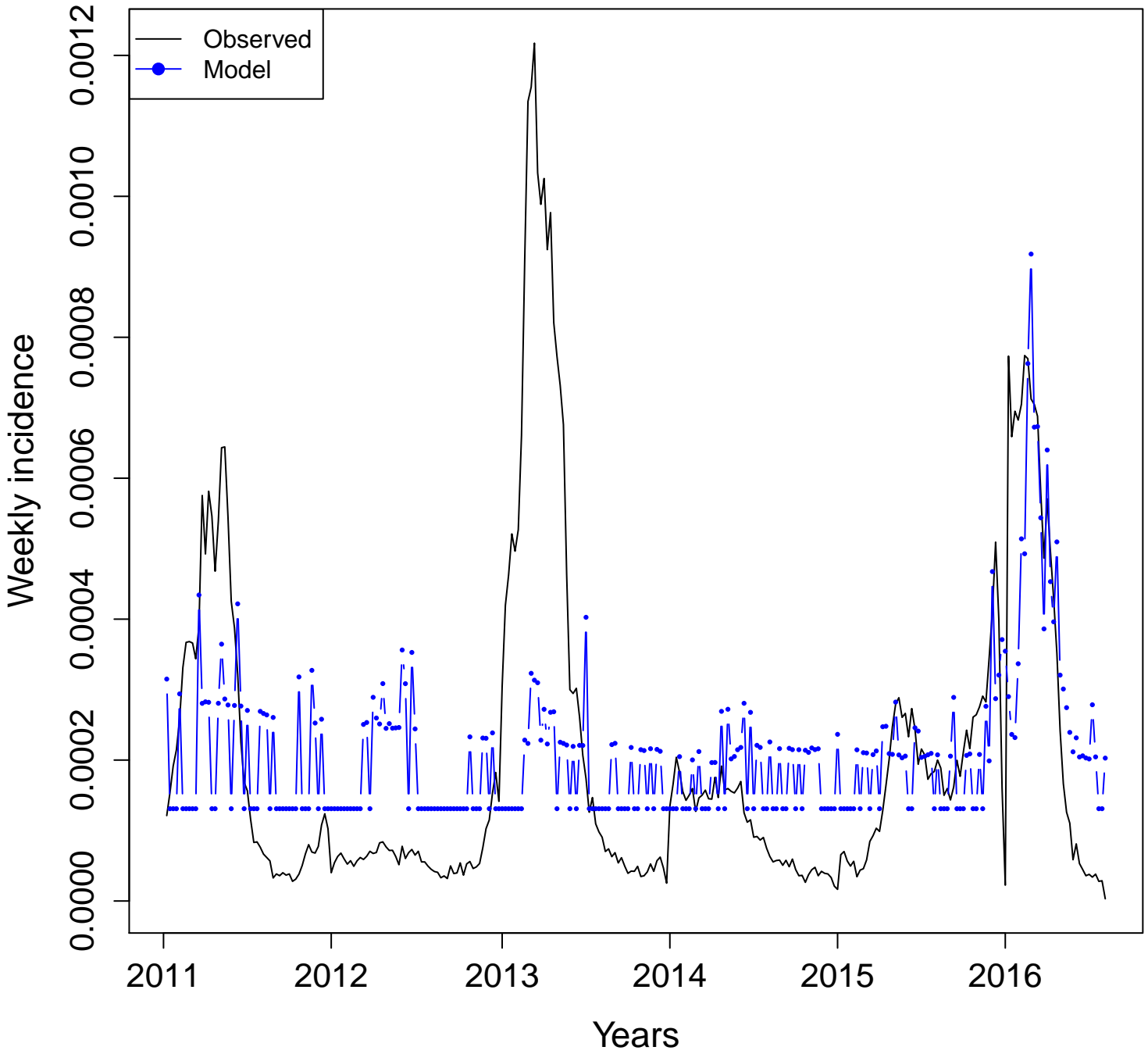


ES- dengue.sintomas
Adj. R squared = 0.5667

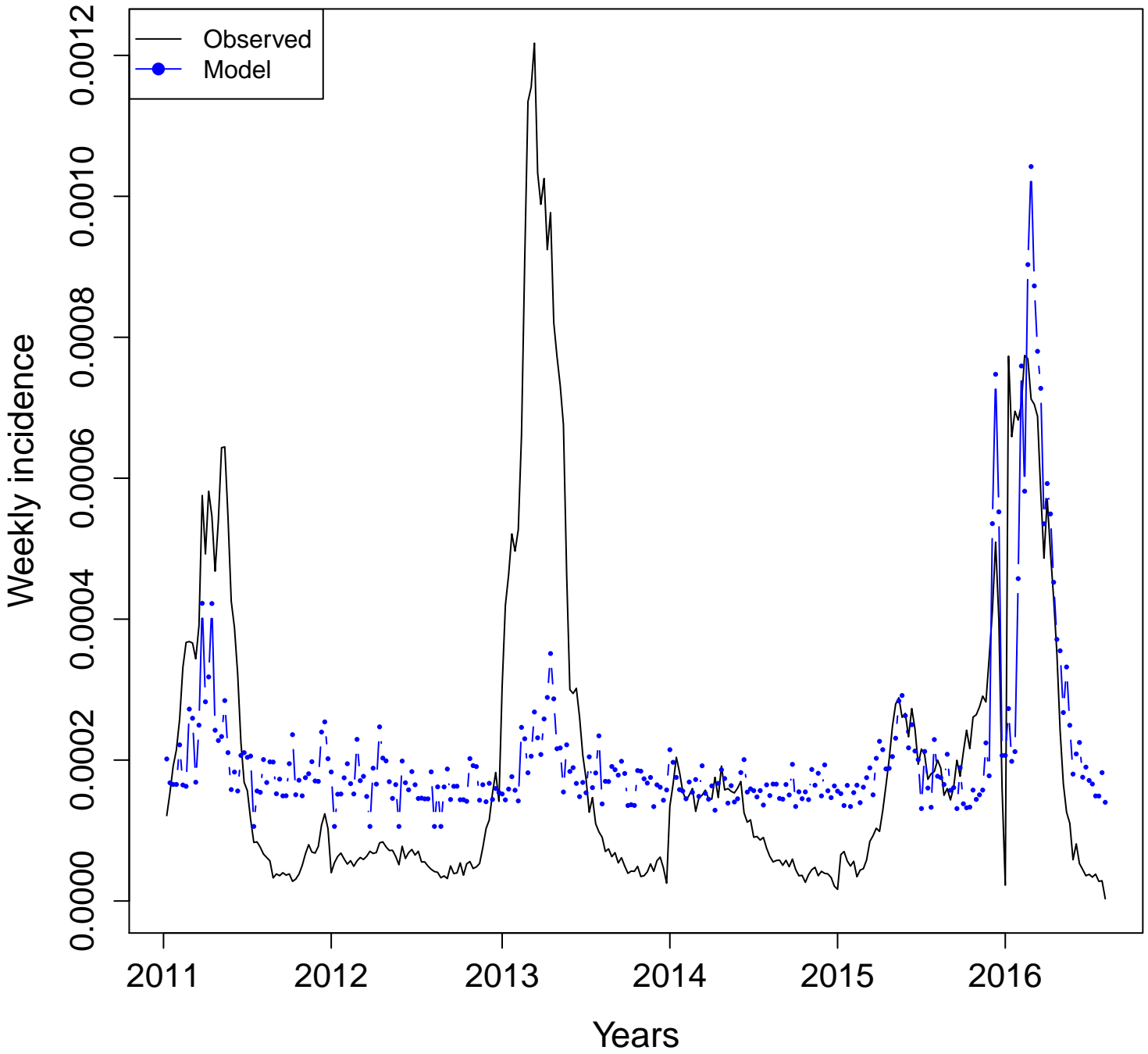


ES- dengue.virus

Adj. R squared = 0.2024

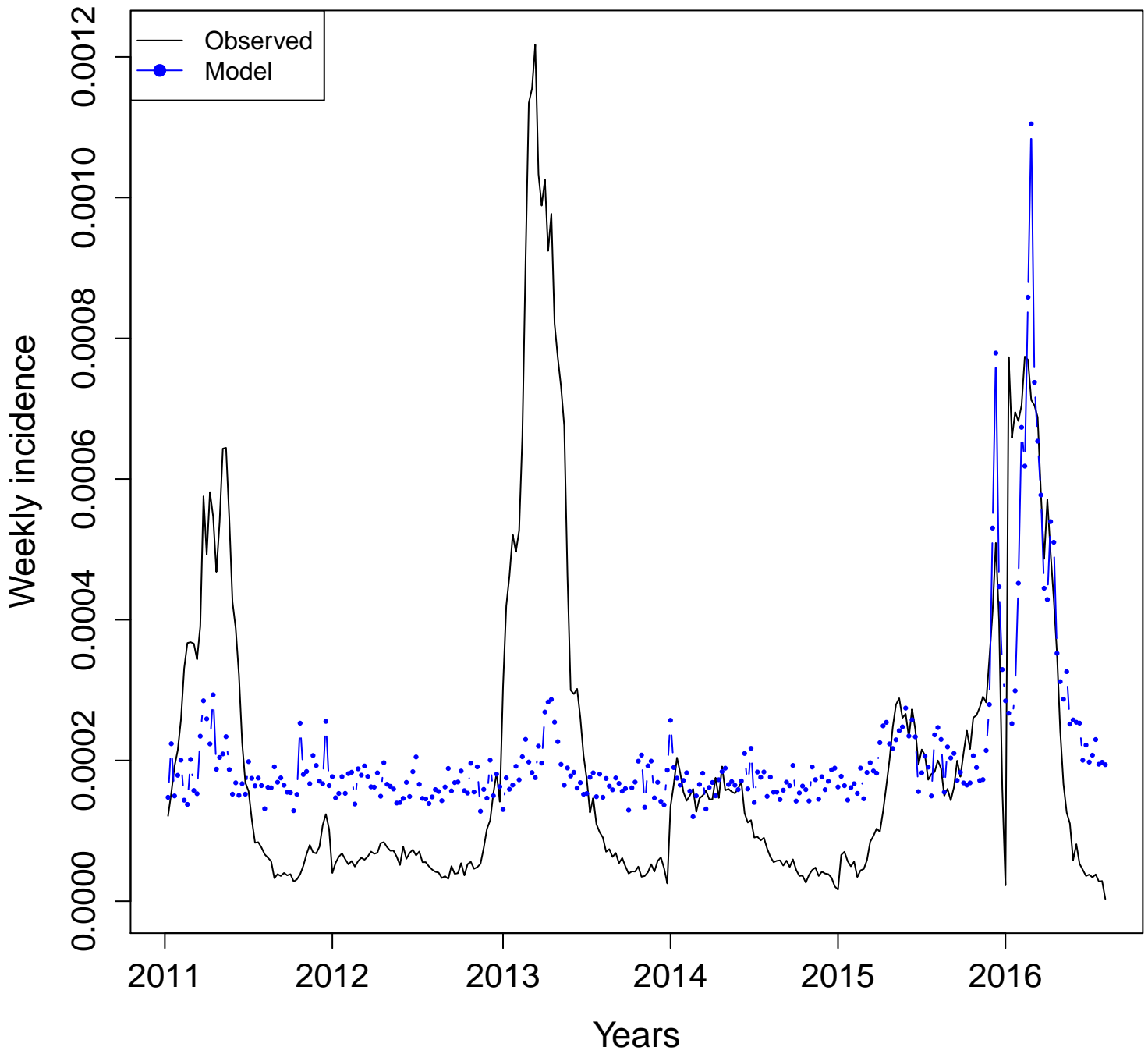


ES- mosquito.dengue
Adj. R squared = 0.2673



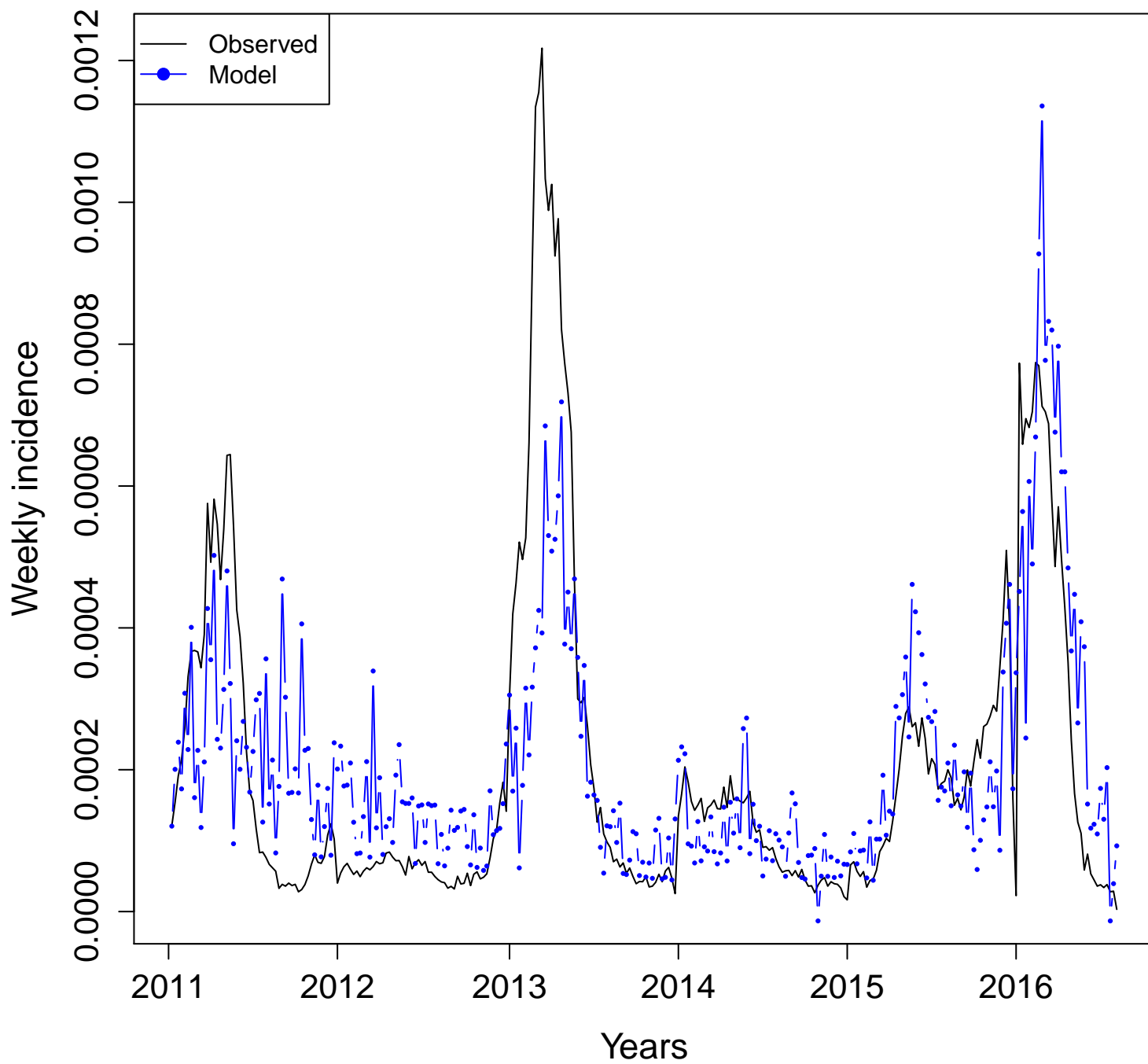
ES- mosquito

Adj. R squared = 0.2185



ES- sintomas.da.dengue

Adj. R squared = 0.5118



Goiás (GO)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

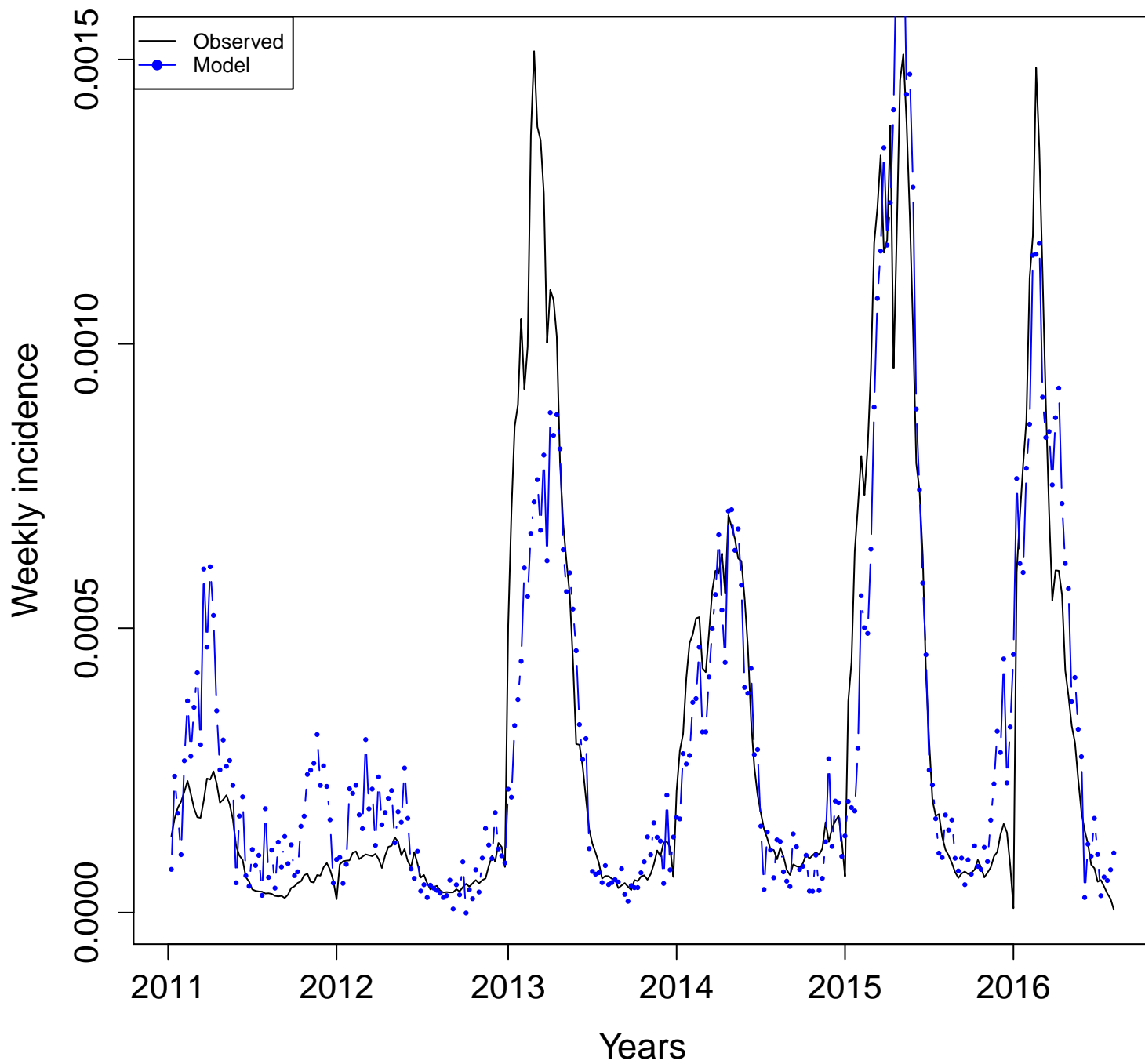
- **Combined terms:**
 - **All:** model with all the available terms. $n =$ number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
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- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

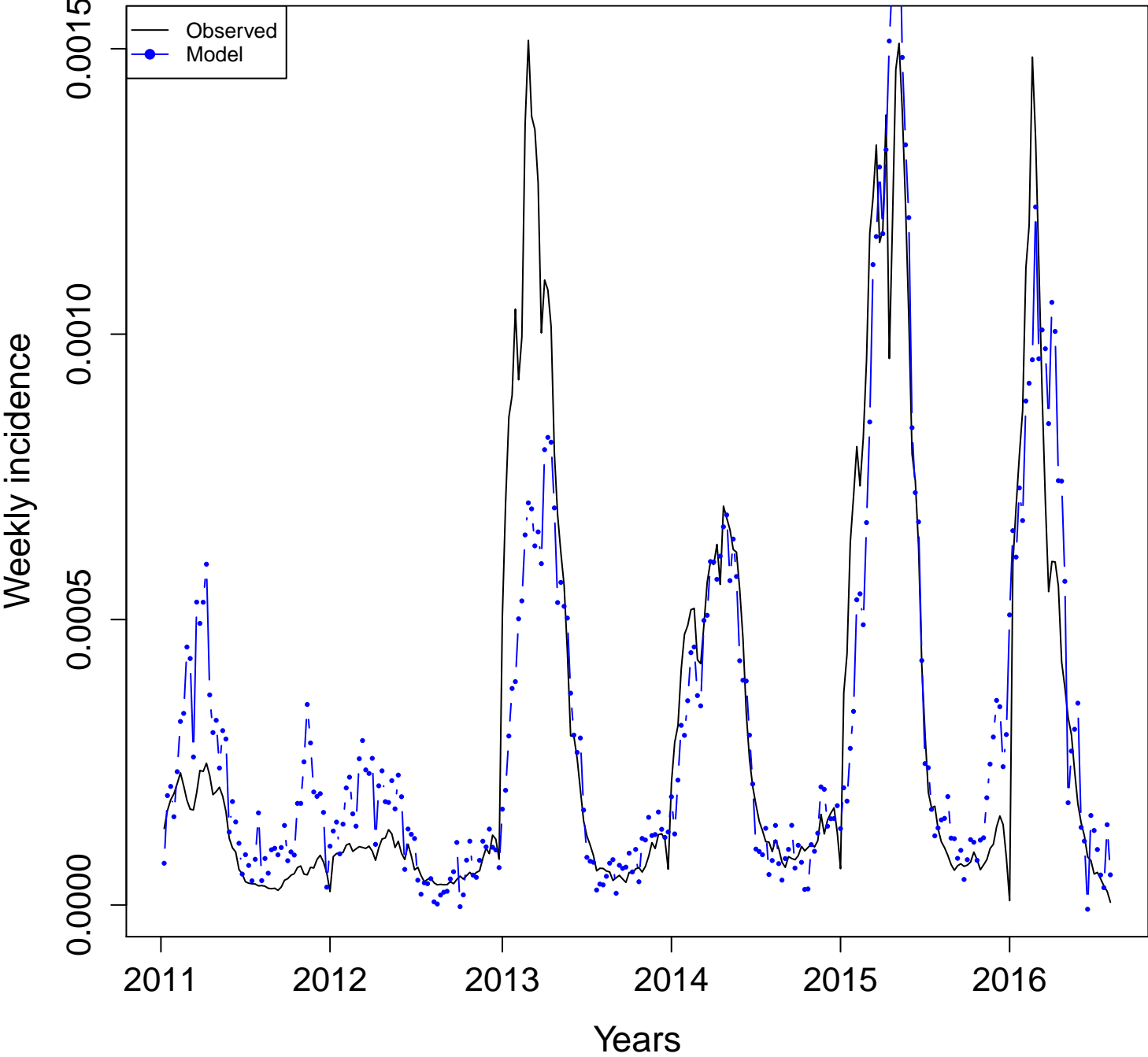
Goiás (GO)

All
(n = 11)

BR-GO
Adj. R squared = 0.7853

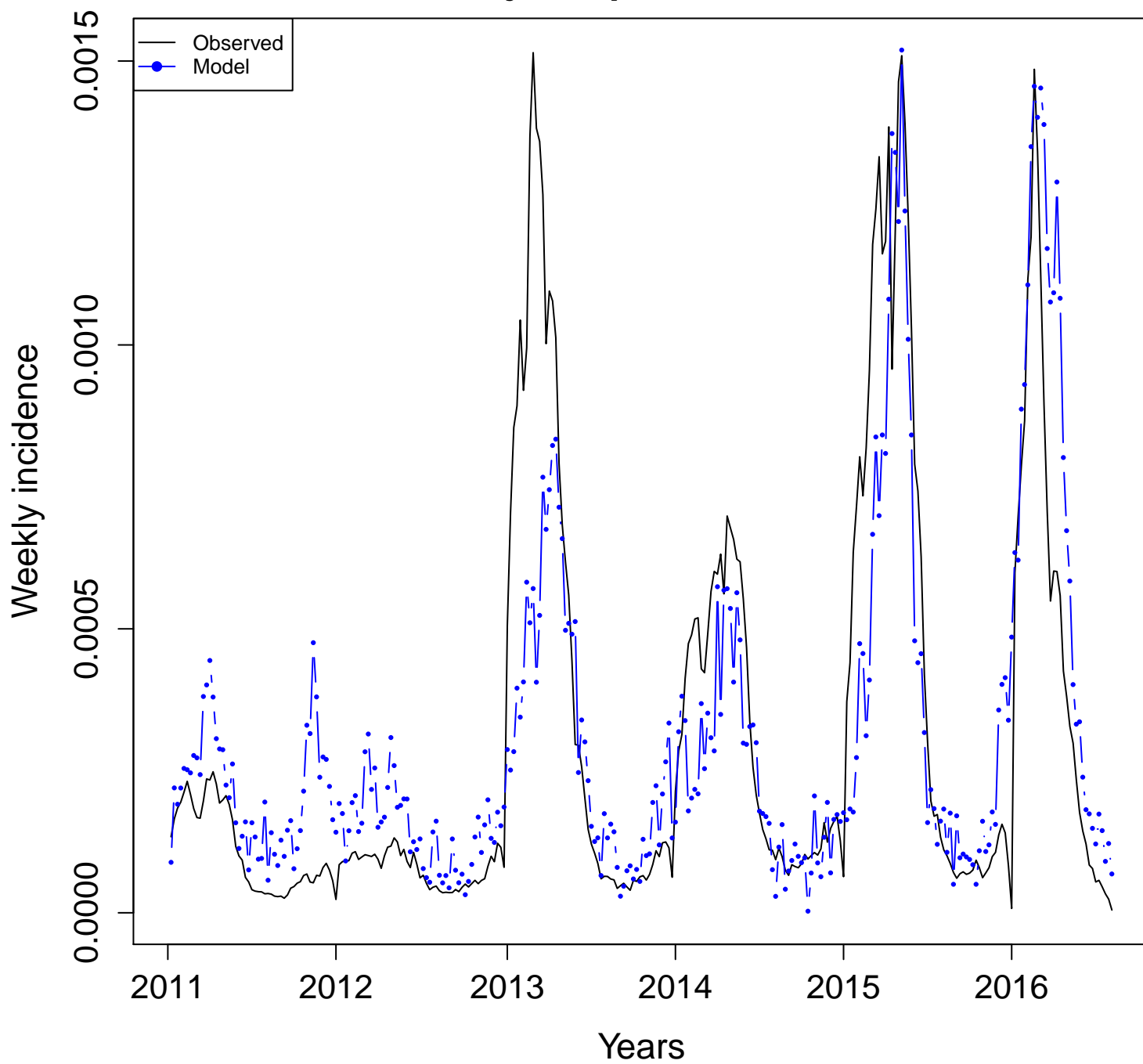


BR-GO
Adj. R squared = 0.7678



**Uncorrelated
(n = 3)**

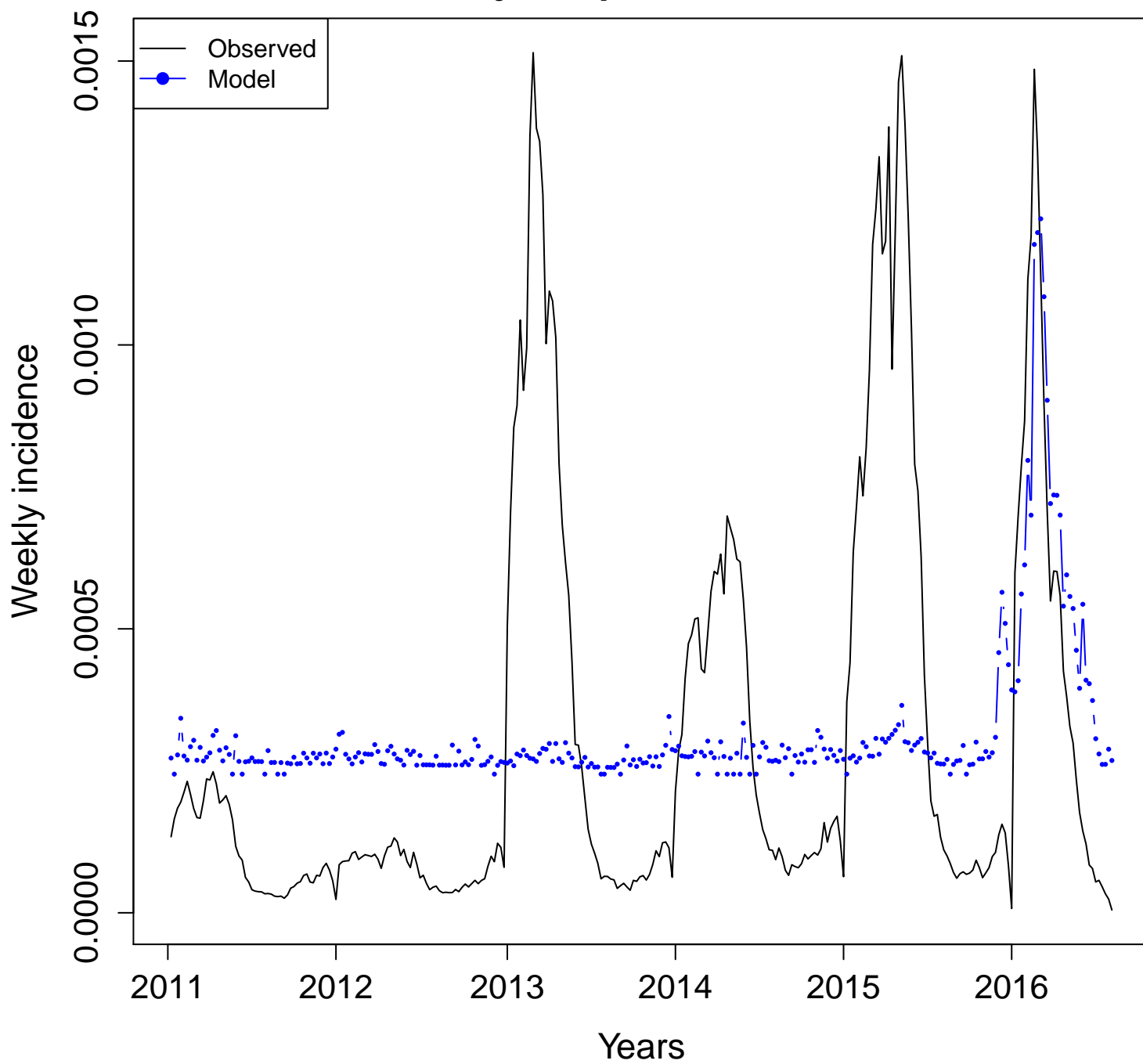
**BR-GO
Adj. R squared = 0.66**



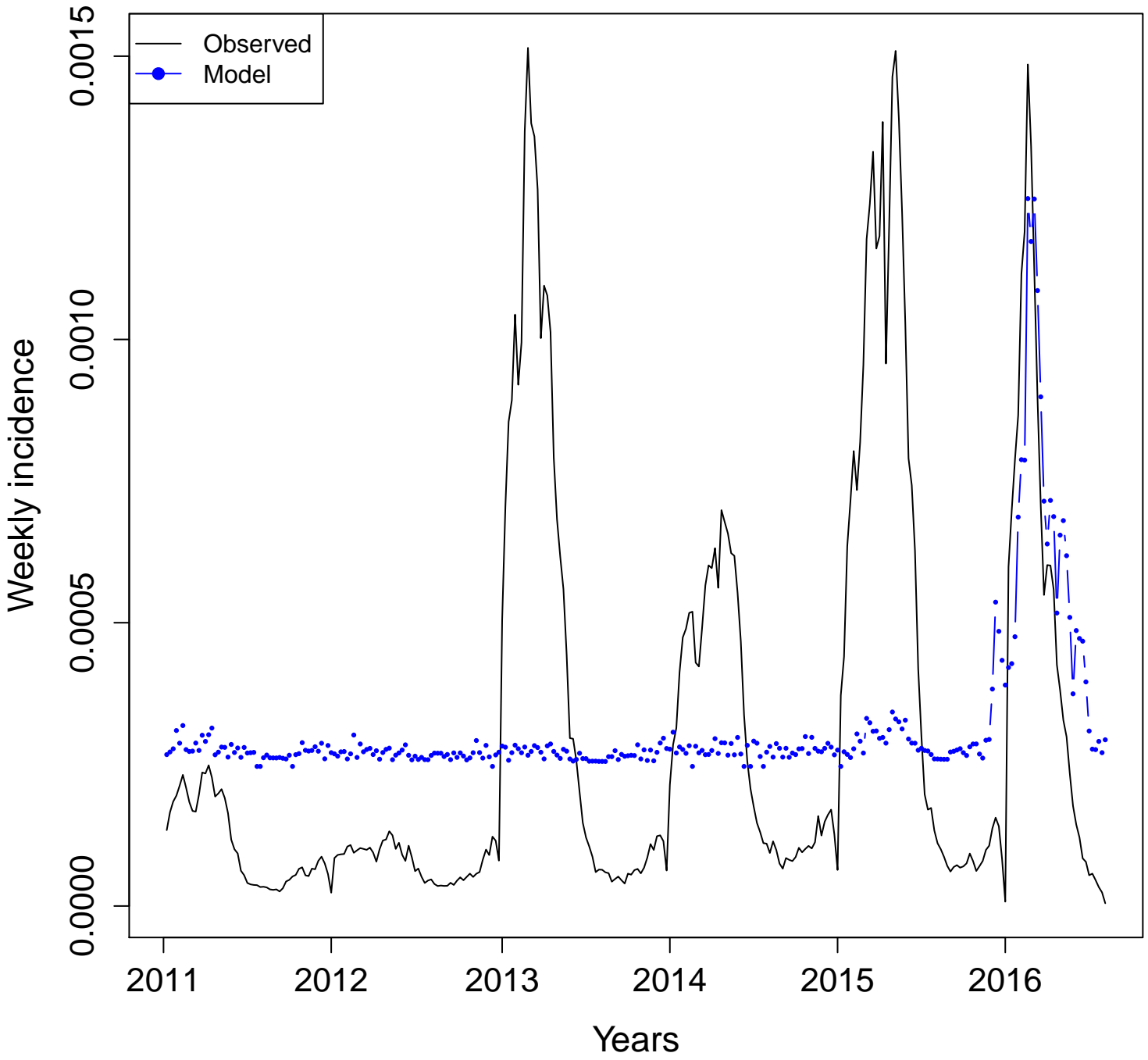
Individual terms
Adjusted R squared

Goiás (GO)

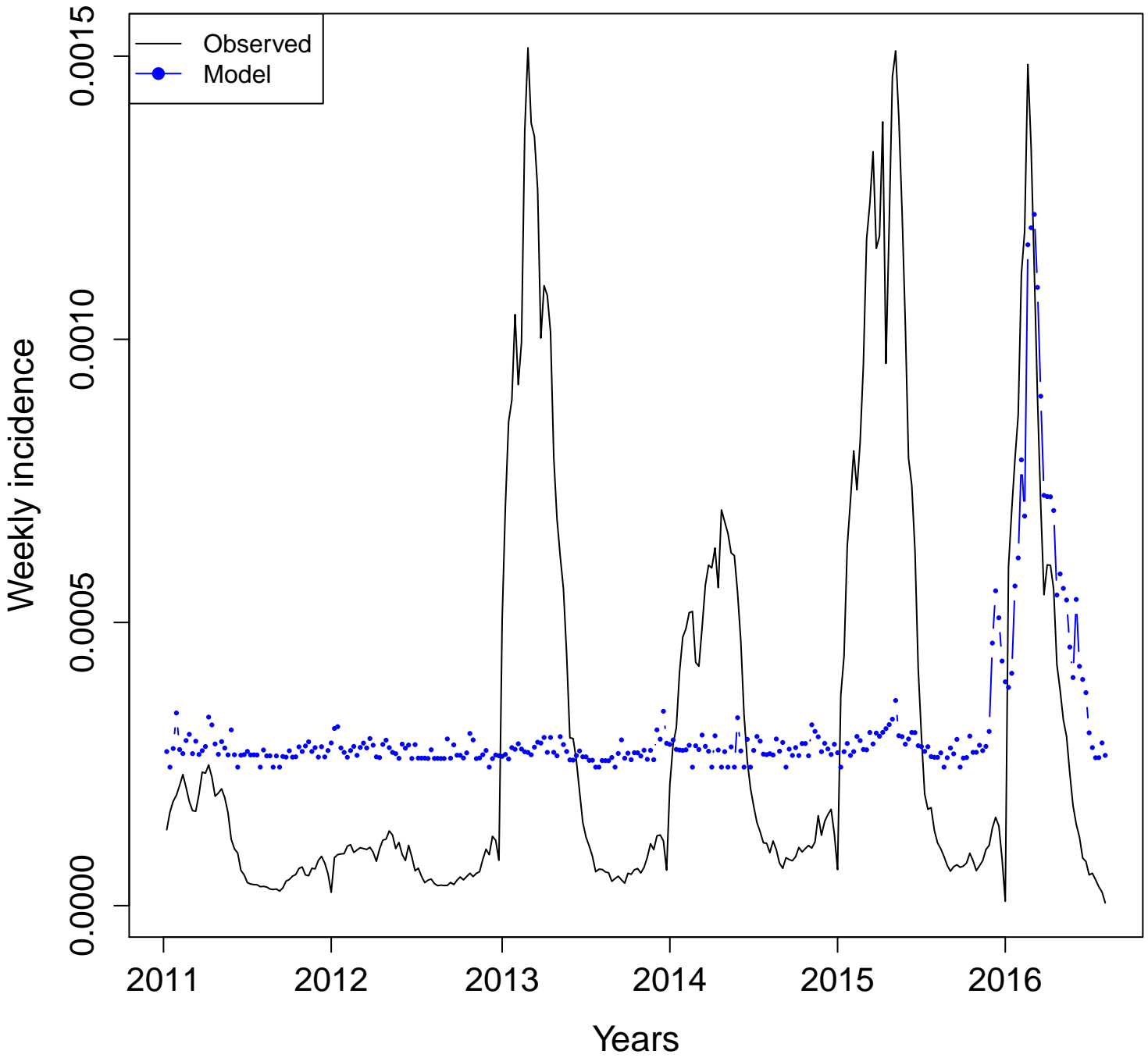
GO- aedes.aegypti
Adj. R squared = 0.129



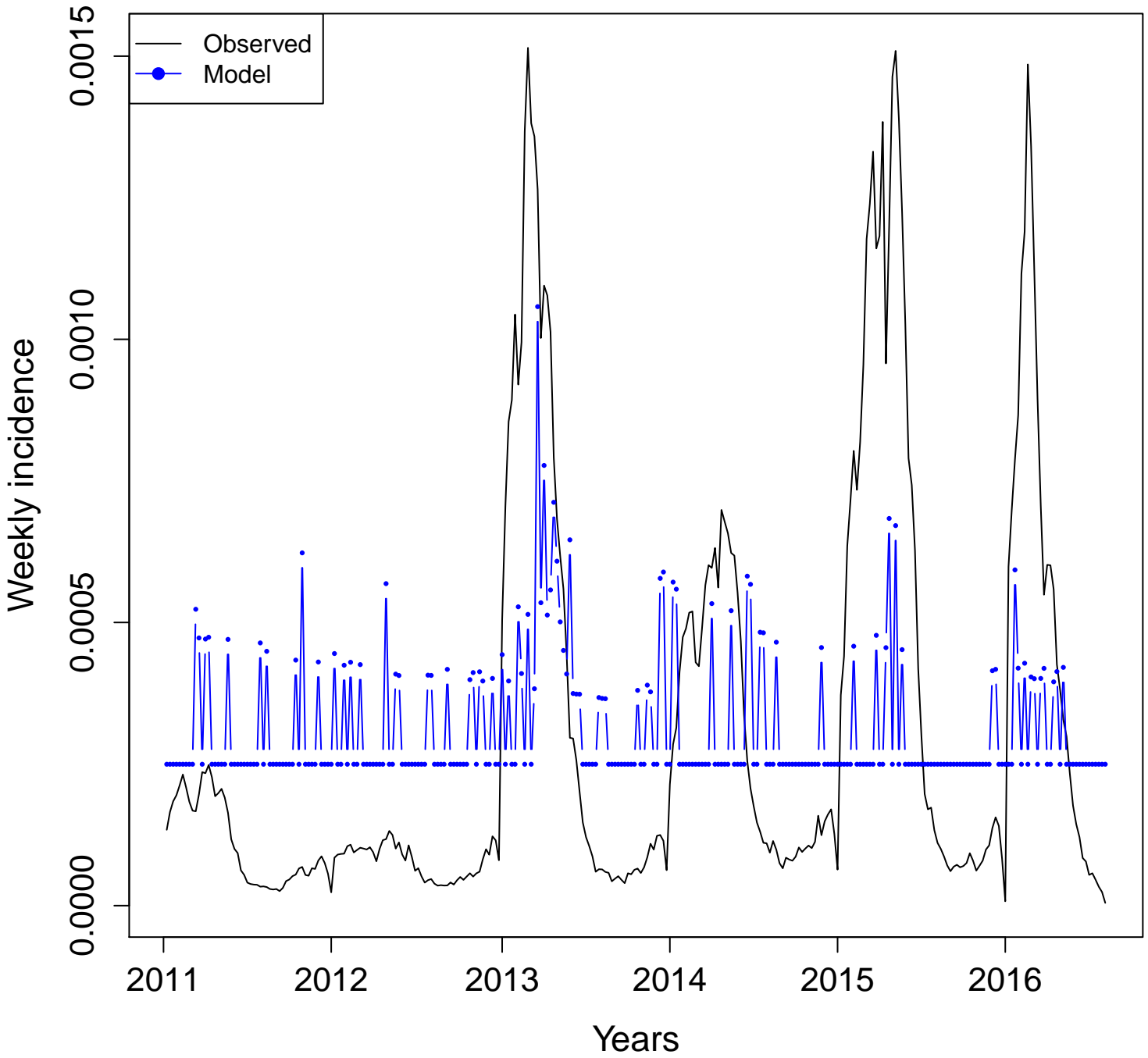
GO- aedes
Adj. R squared = 0.1348



GO- aegypti
Adj. R squared = 0.1276

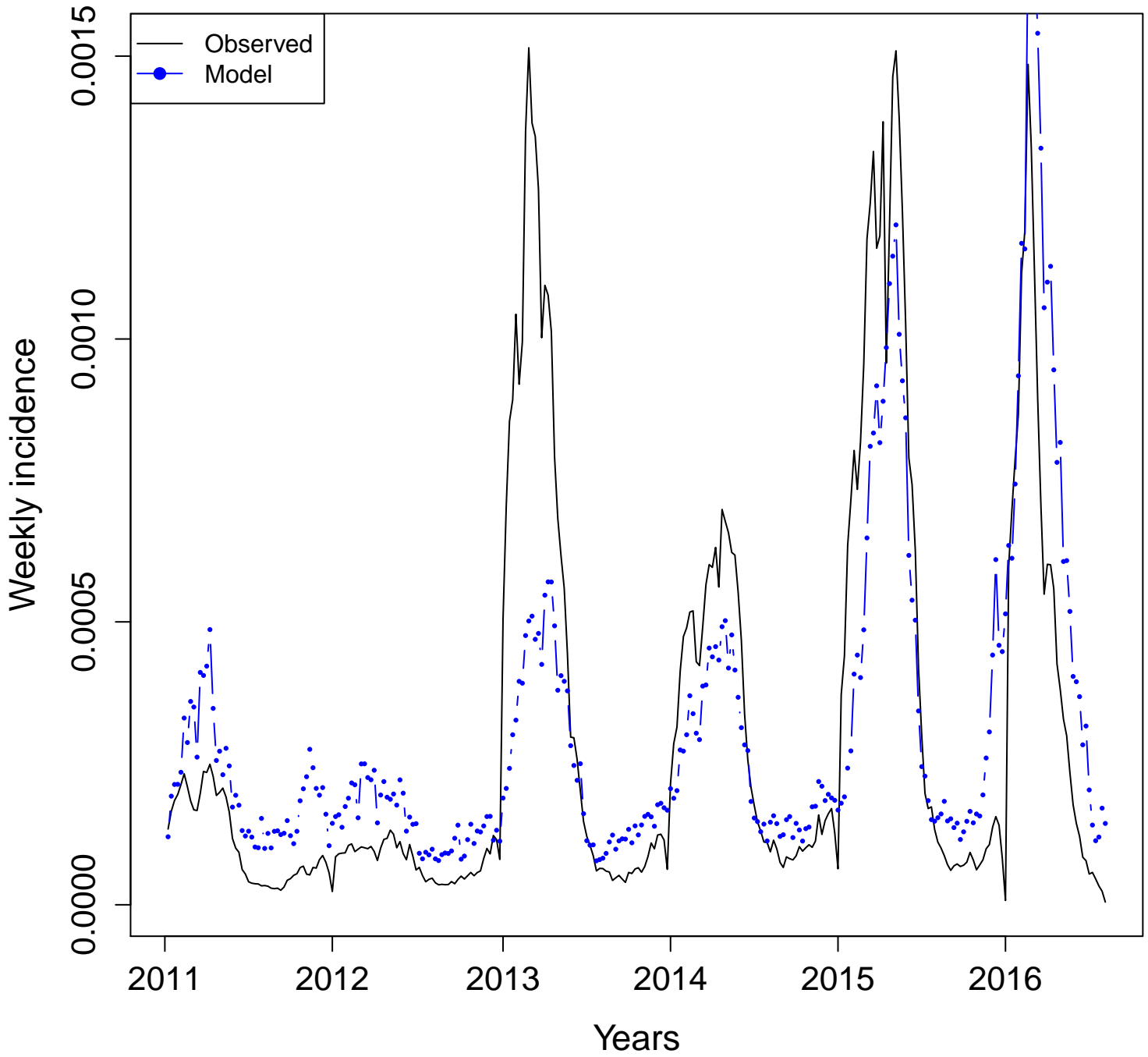


GO- dengue.fever
Adj. R squared = 0.0936

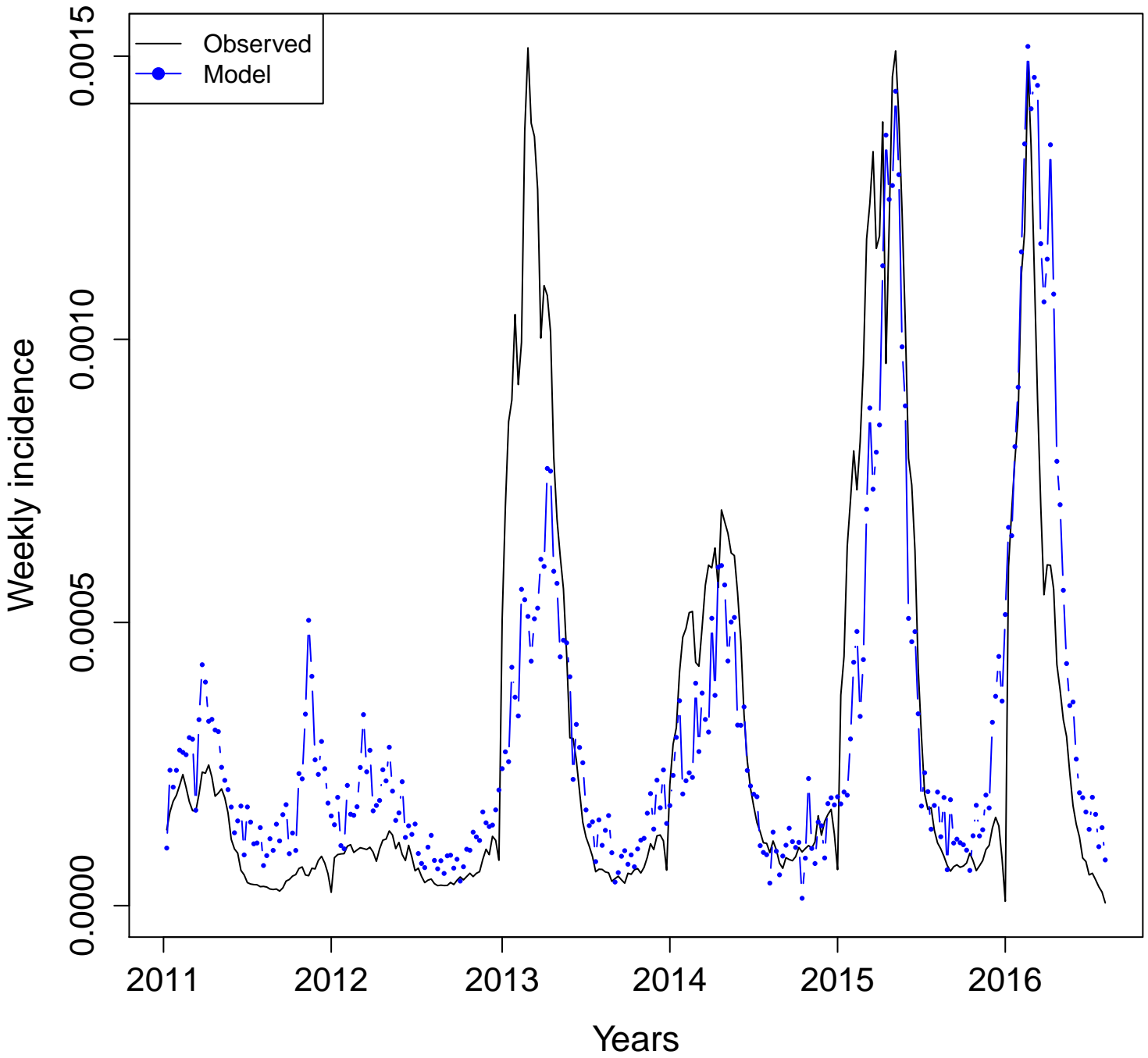


GO- dengue

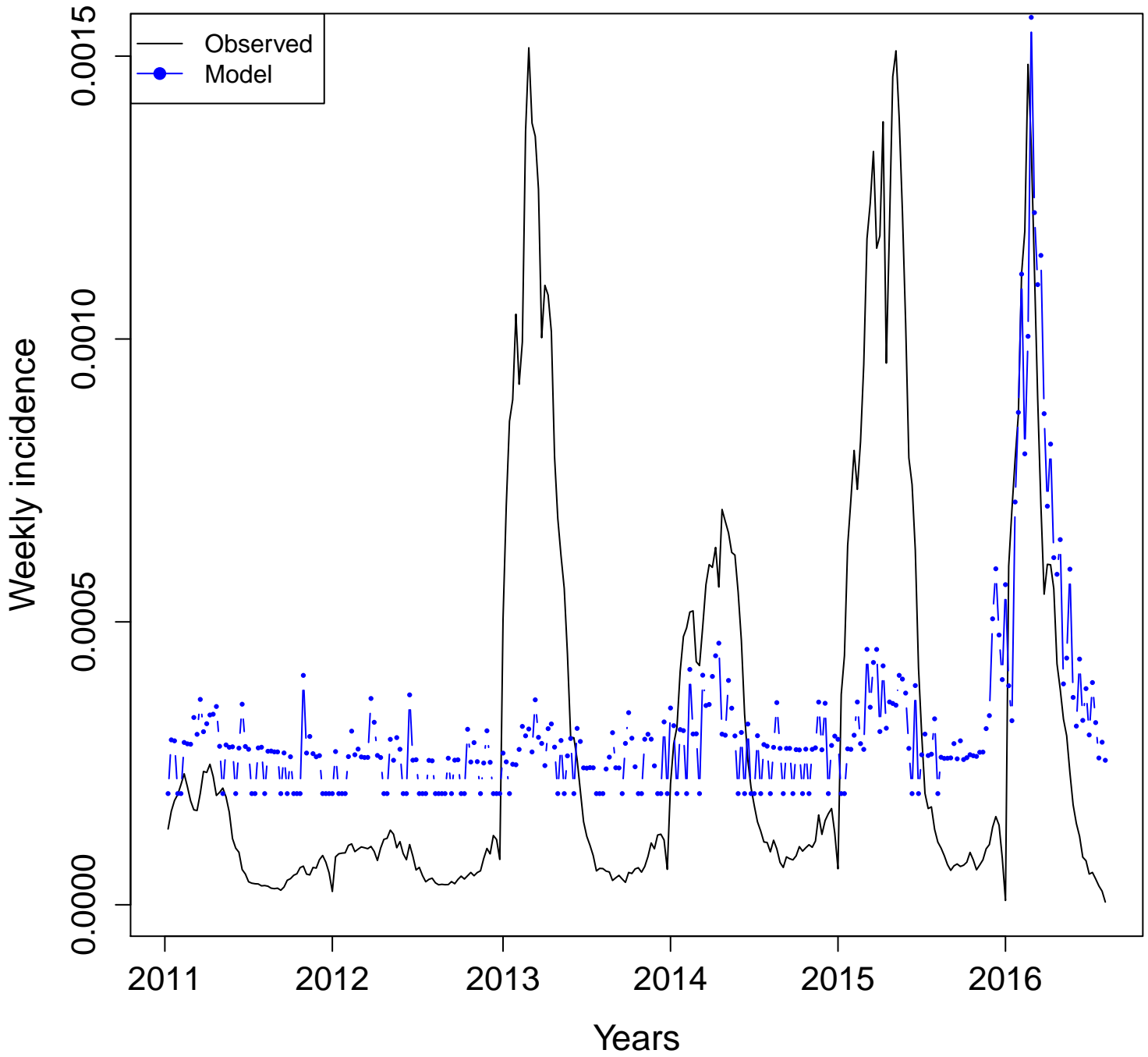
Adj. R squared = 0.6051



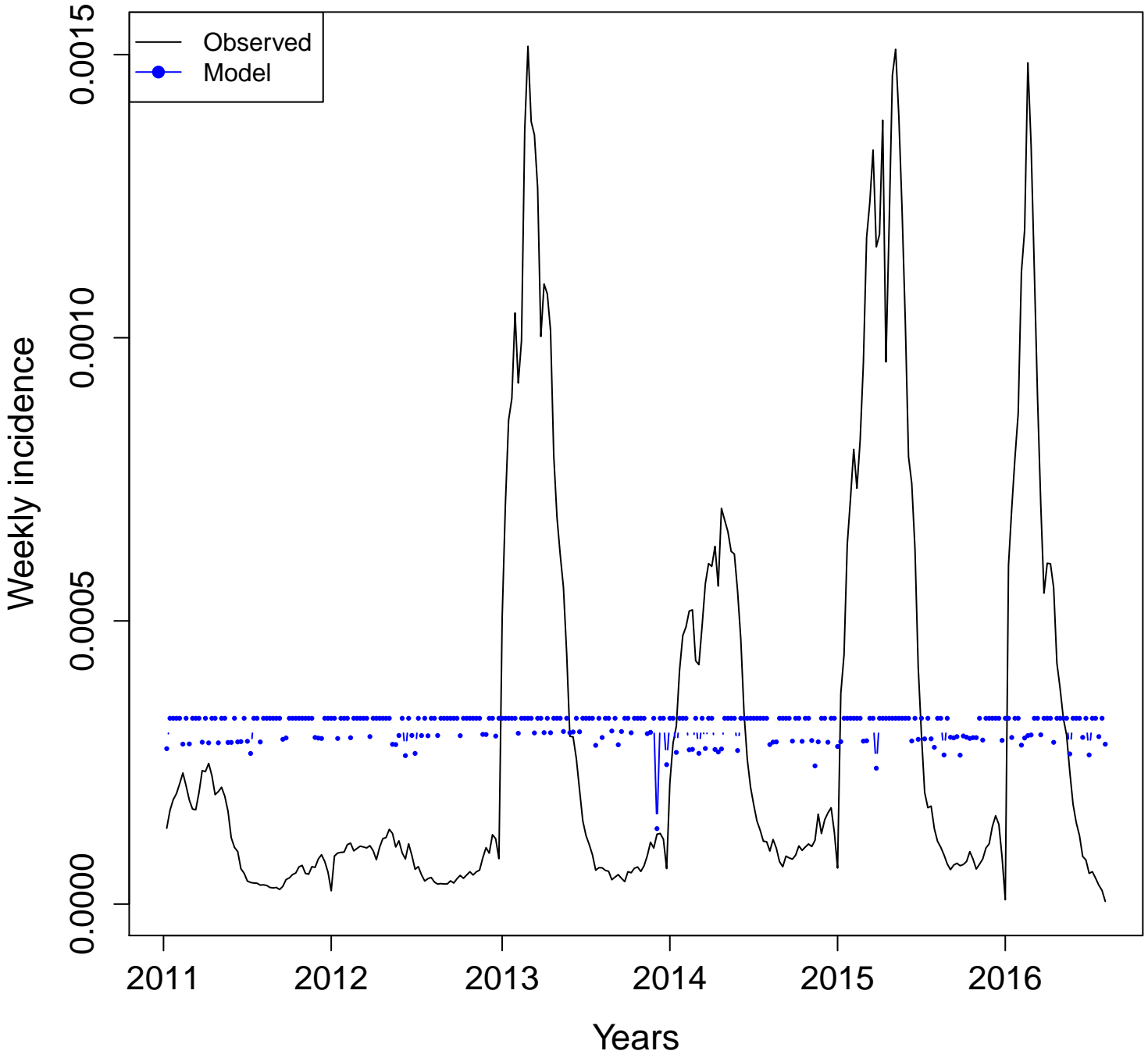
GO- dengue.sintomas
Adj. R squared = 0.6523



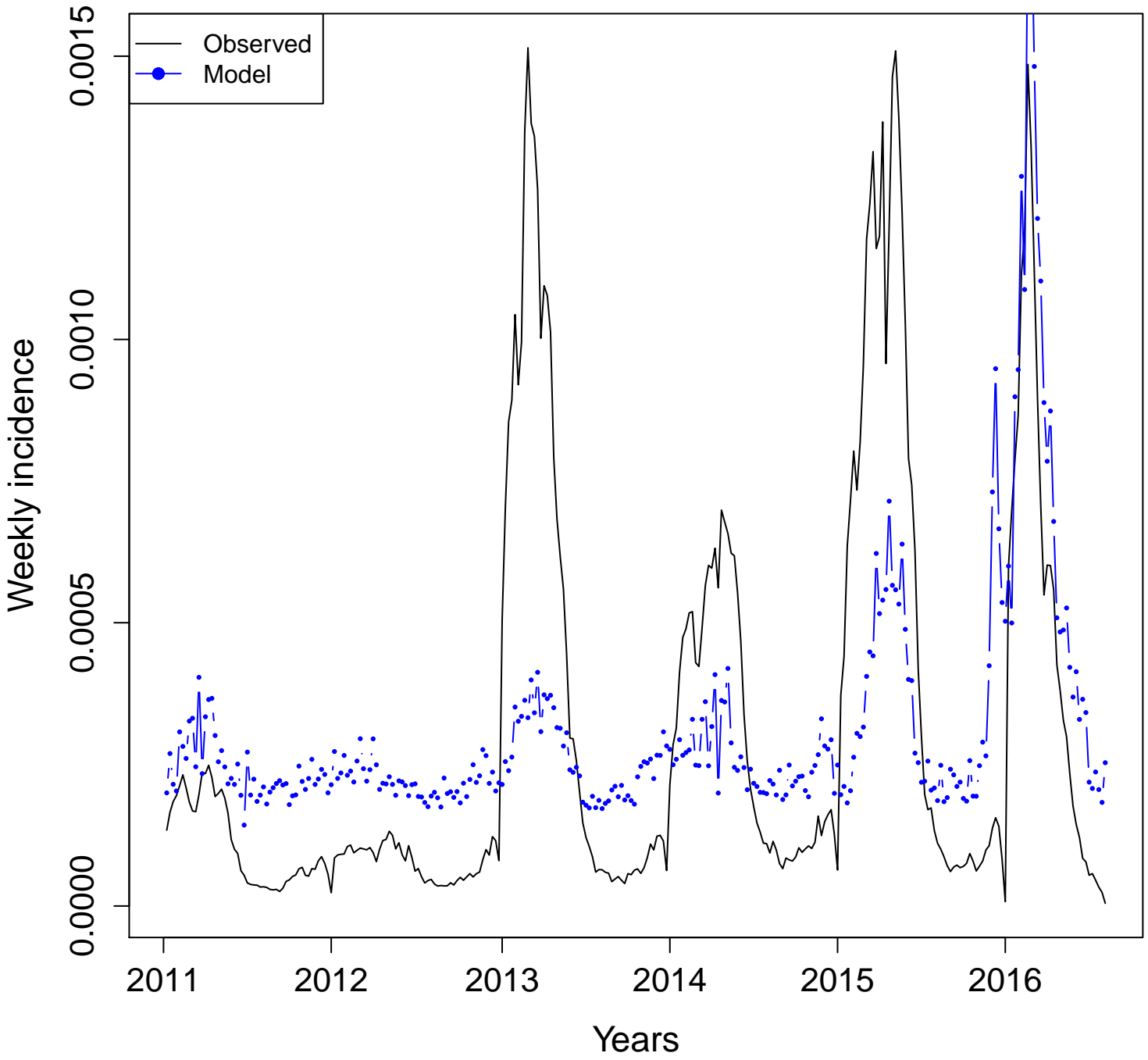
GO- dengue.virus
Adj. R squared = 0.197



GO- DHF
Adj. R squared = 5e-04

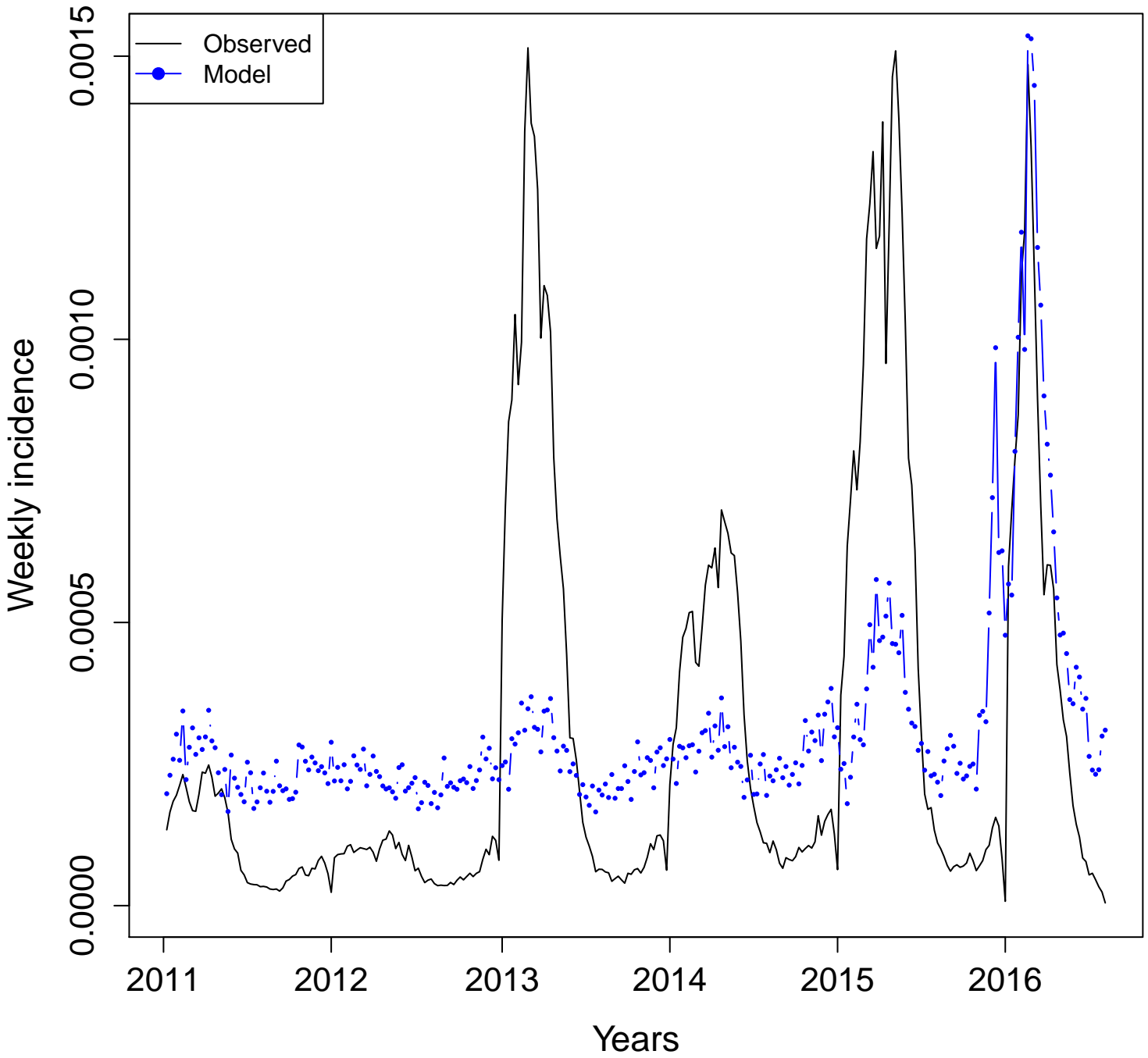


GO- mosquito.dengue
Adj. R squared = 0.3398

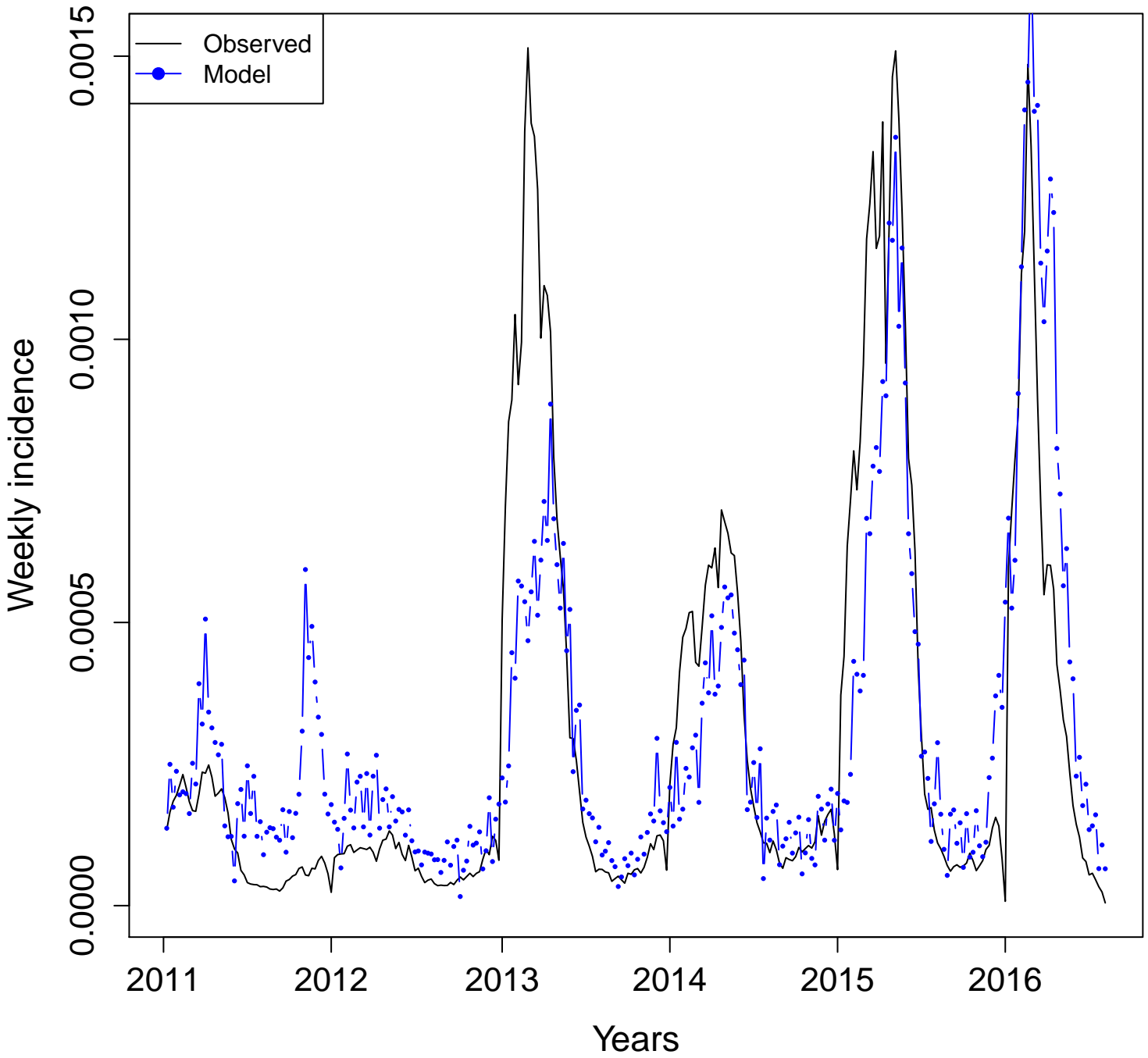


GO- mosquito

Adj. R squared = 0.2733



GO- sintomas.da.dengue
Adj. R squared = 0.6403



Maranhão (MA)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

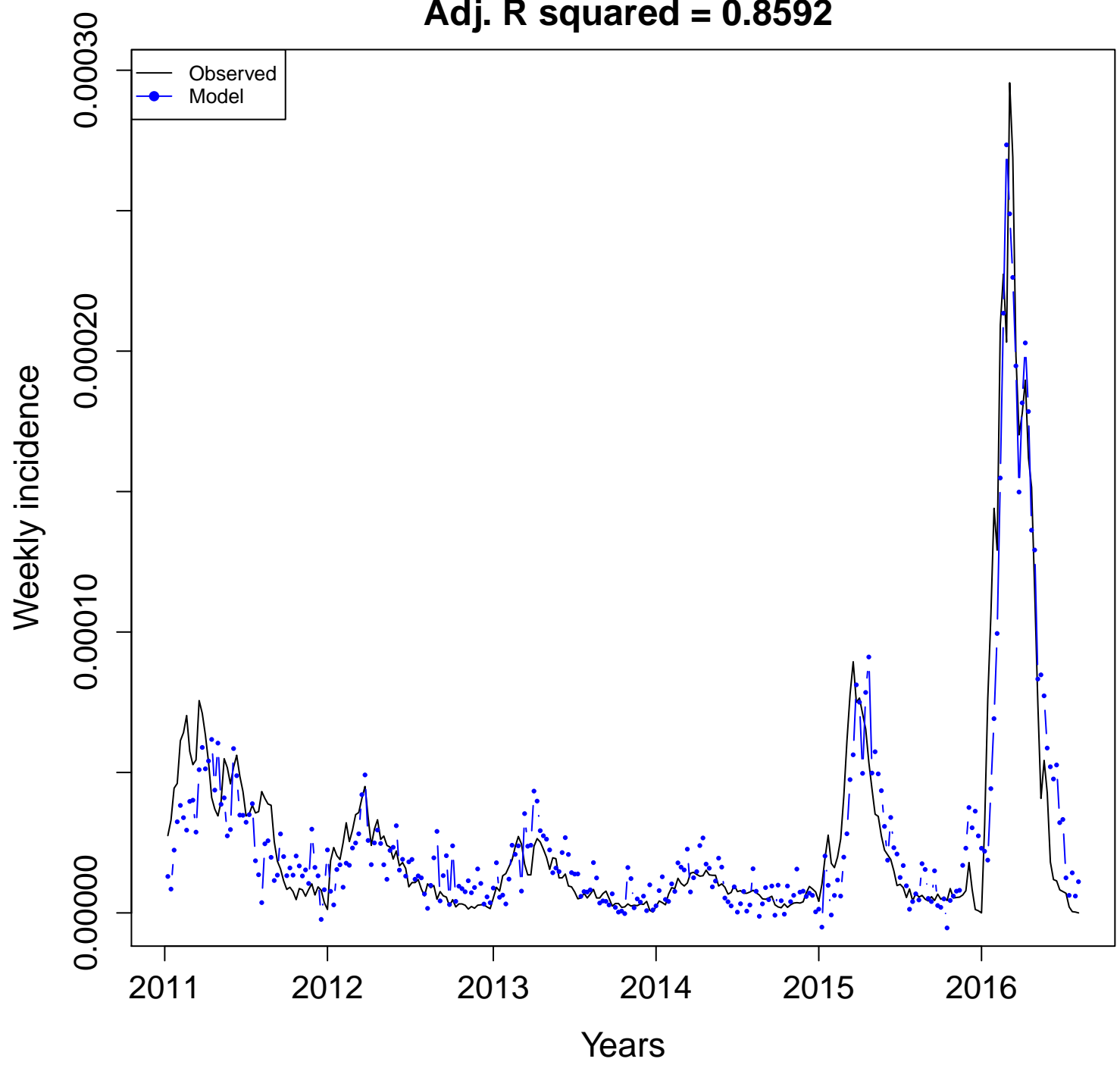
- **Combined terms:**
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 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. $n =$ number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

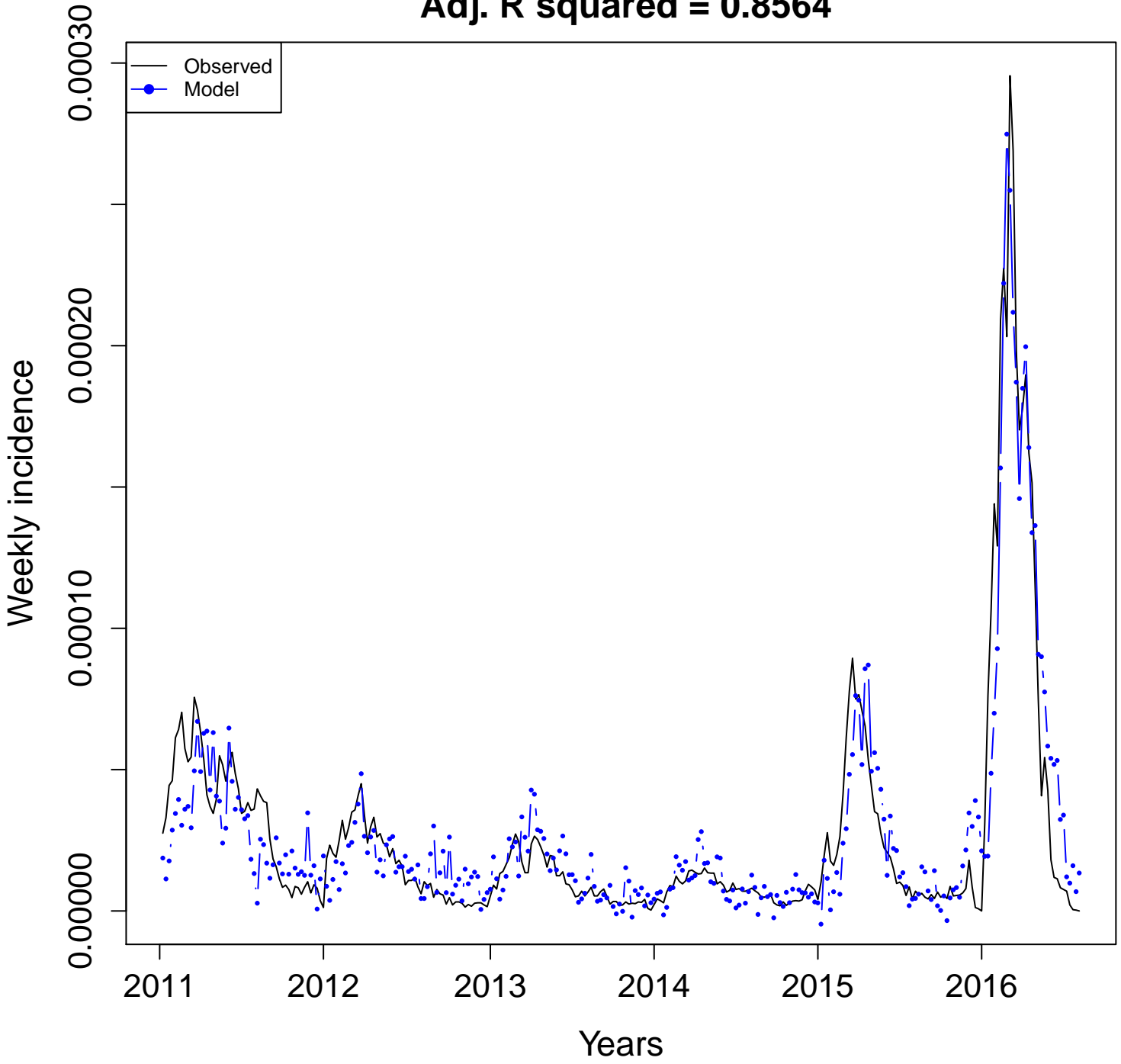
Maranhão (MA)

All
(n = 9)

BR-MA
Adj. R squared = 0.8592

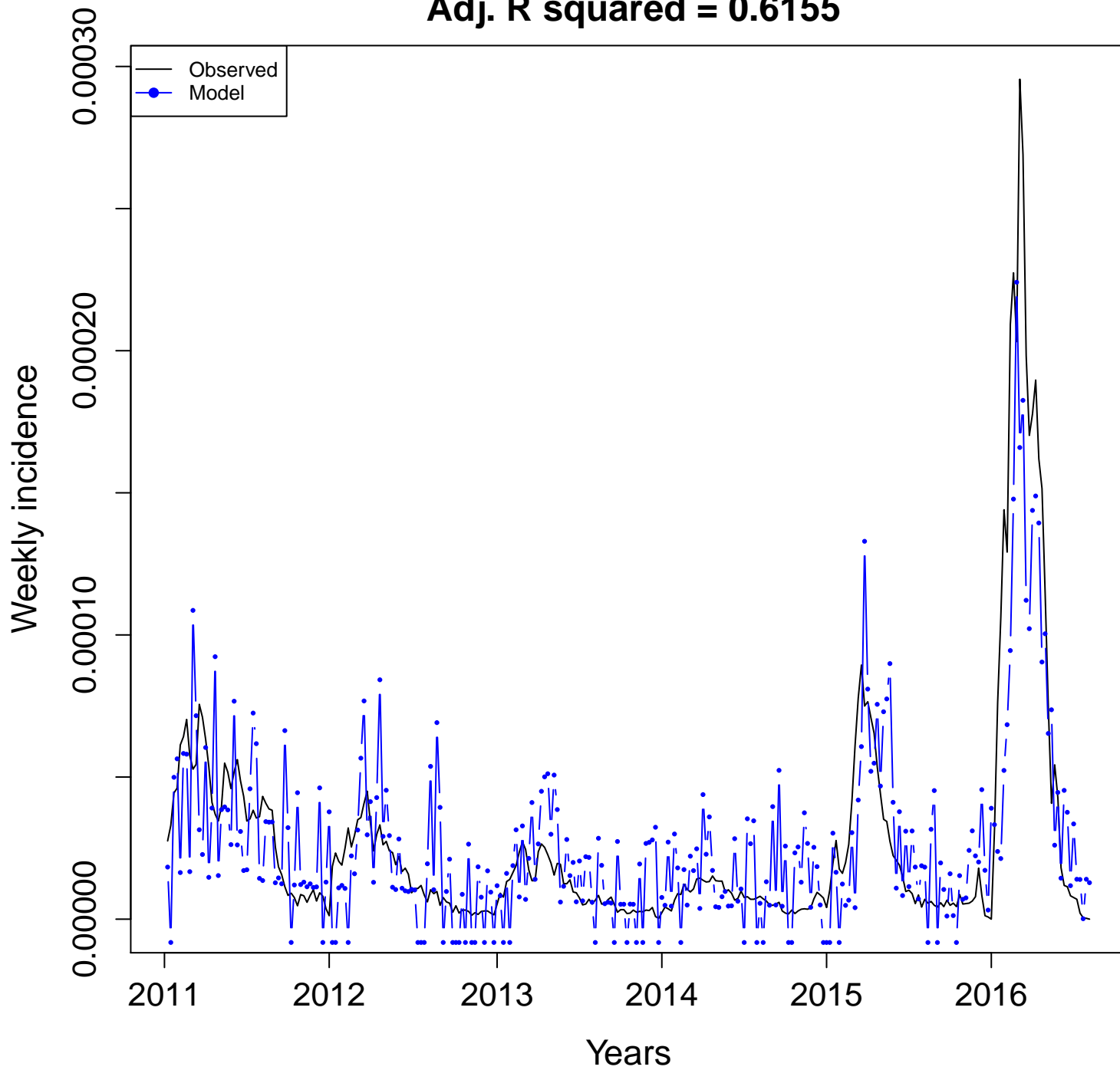


BR-MA
Adj. R squared = 0.8564



**Uncorrelated
(n = 2)**

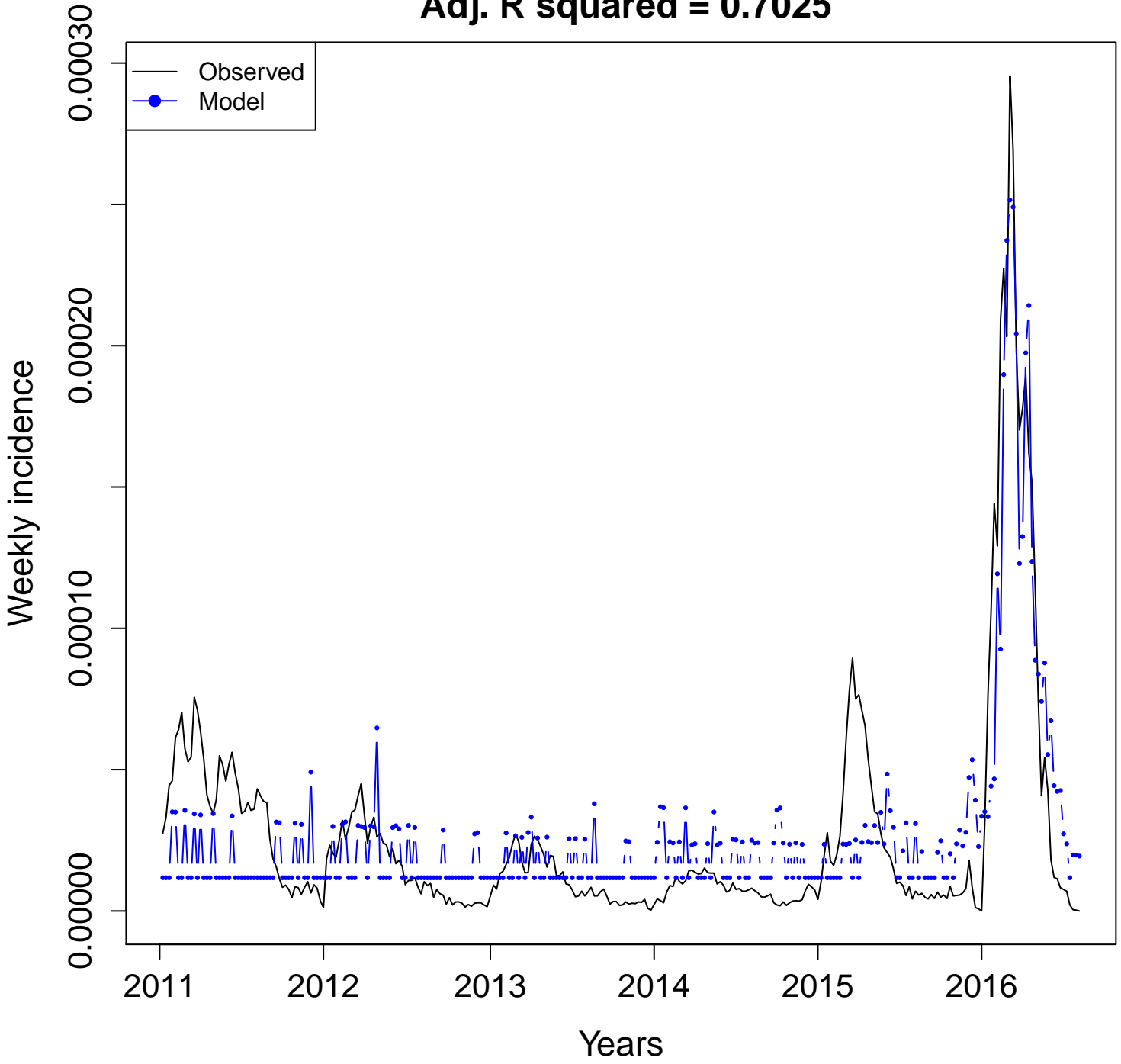
**BR-MA
Adj. R squared = 0.6155**



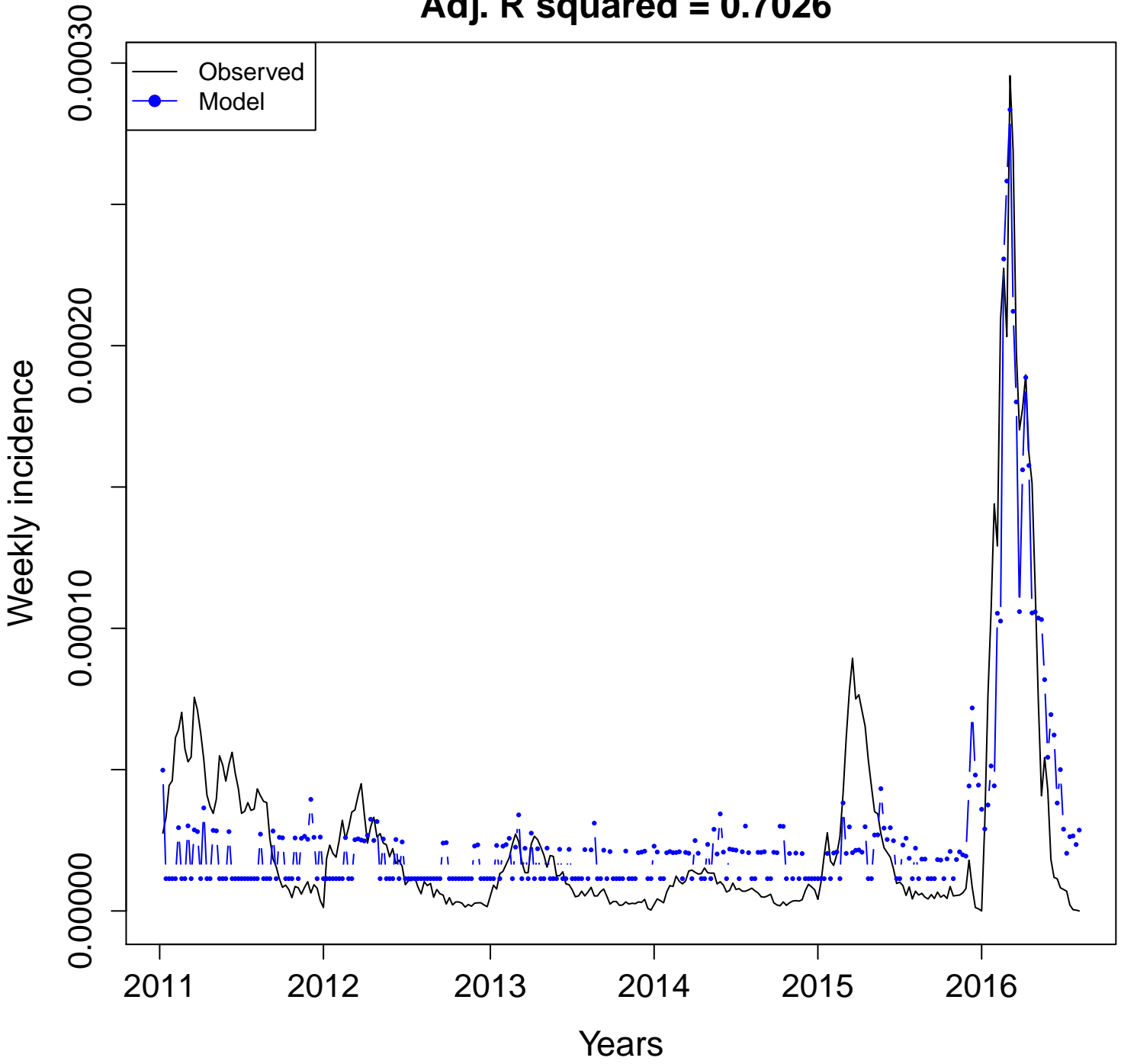
Individual terms
Adjusted R squared

Maranhão (MA)

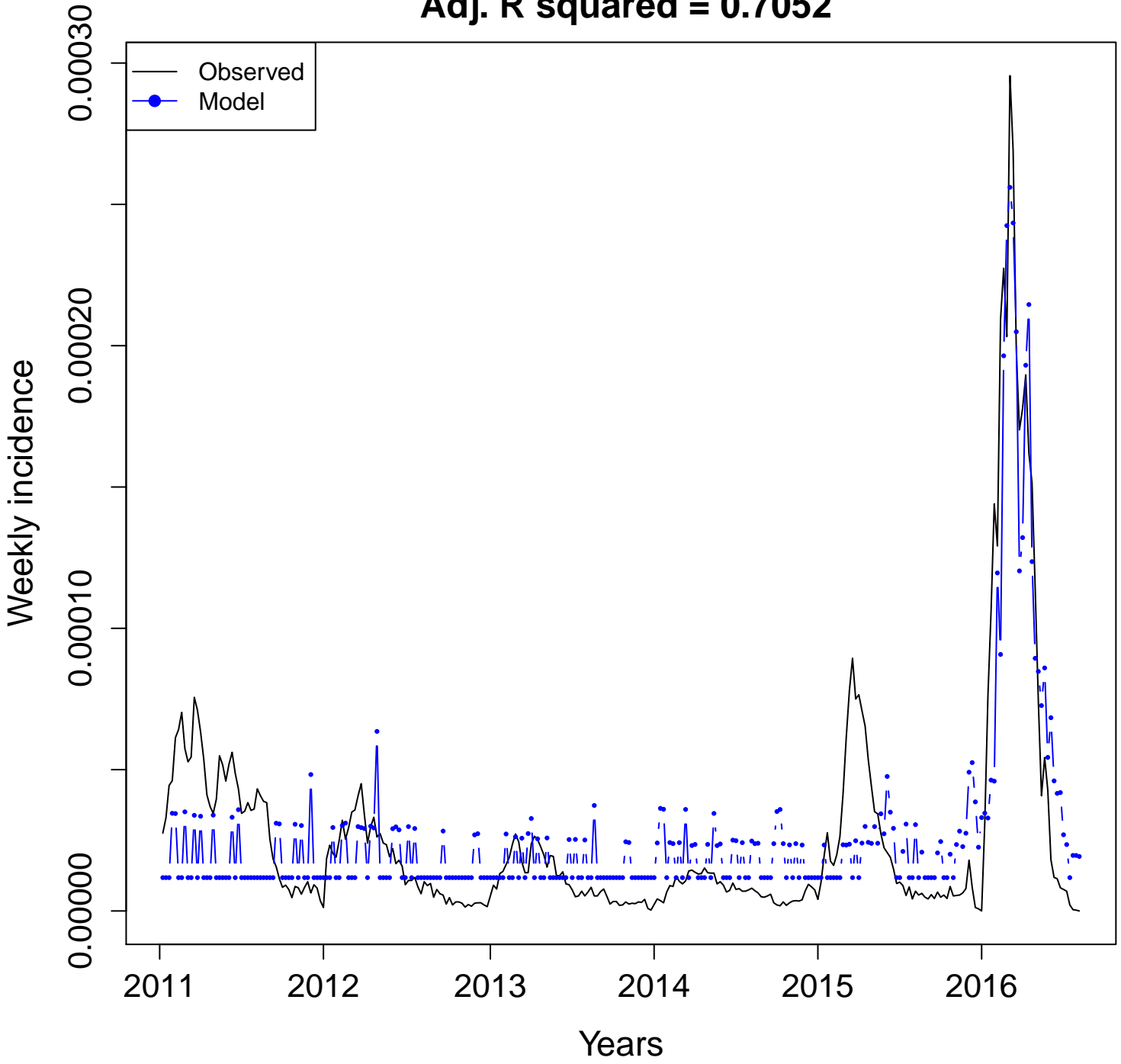
MA- aedes.aegypti
Adj. R squared = 0.7025



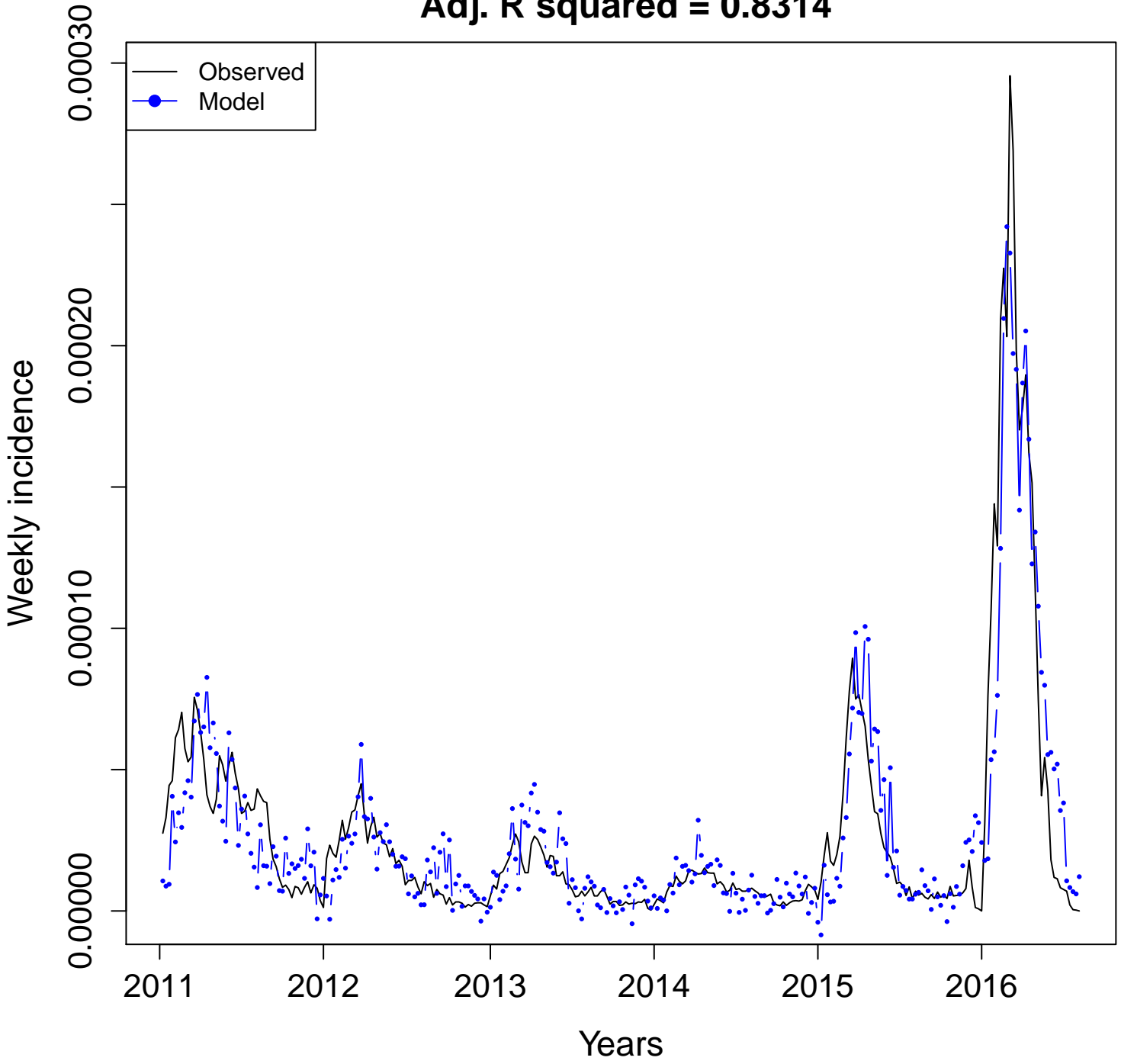
MA- aedes
Adj. R squared = 0.7026



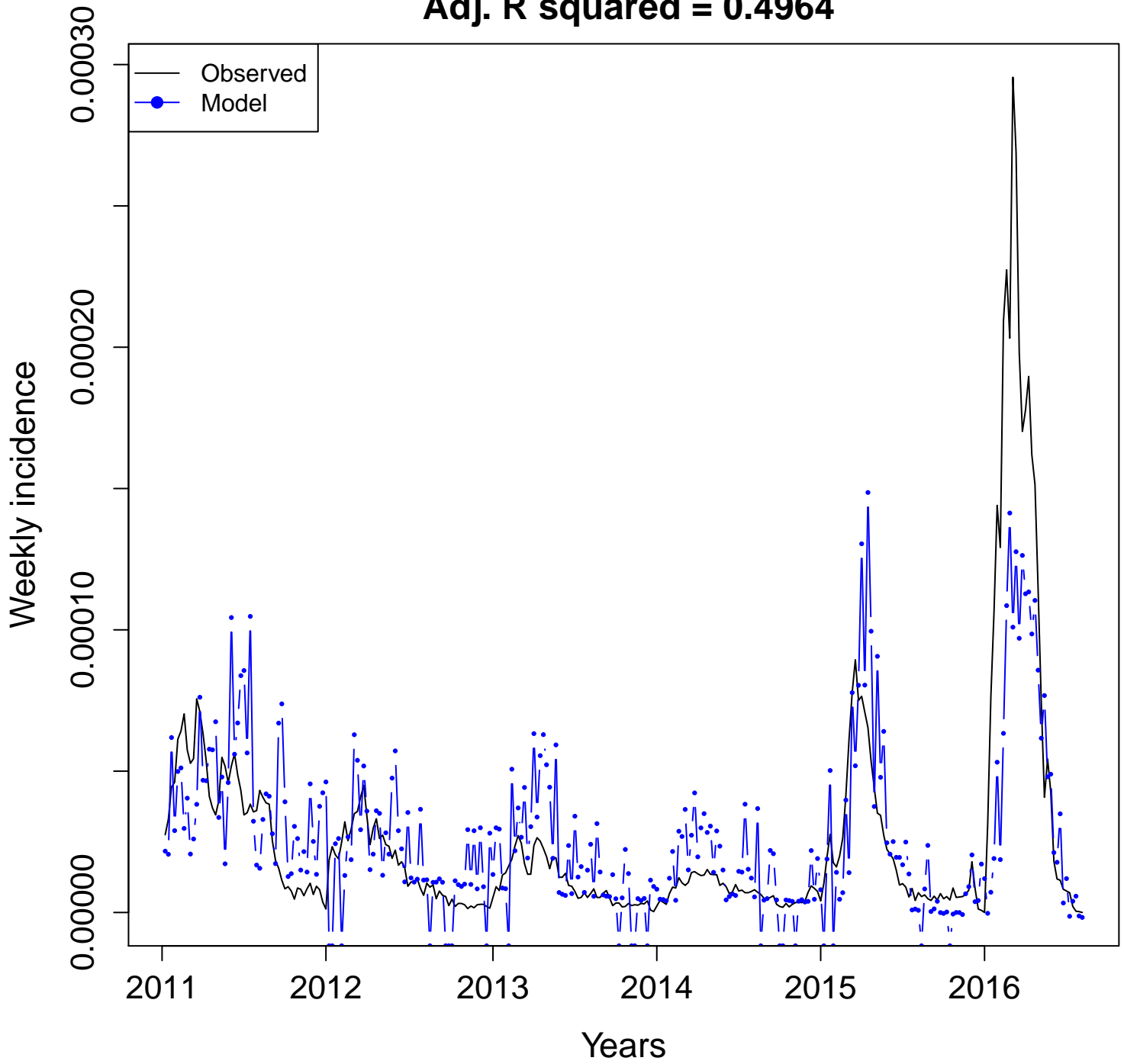
MA- aegypti
Adj. R squared = 0.7052



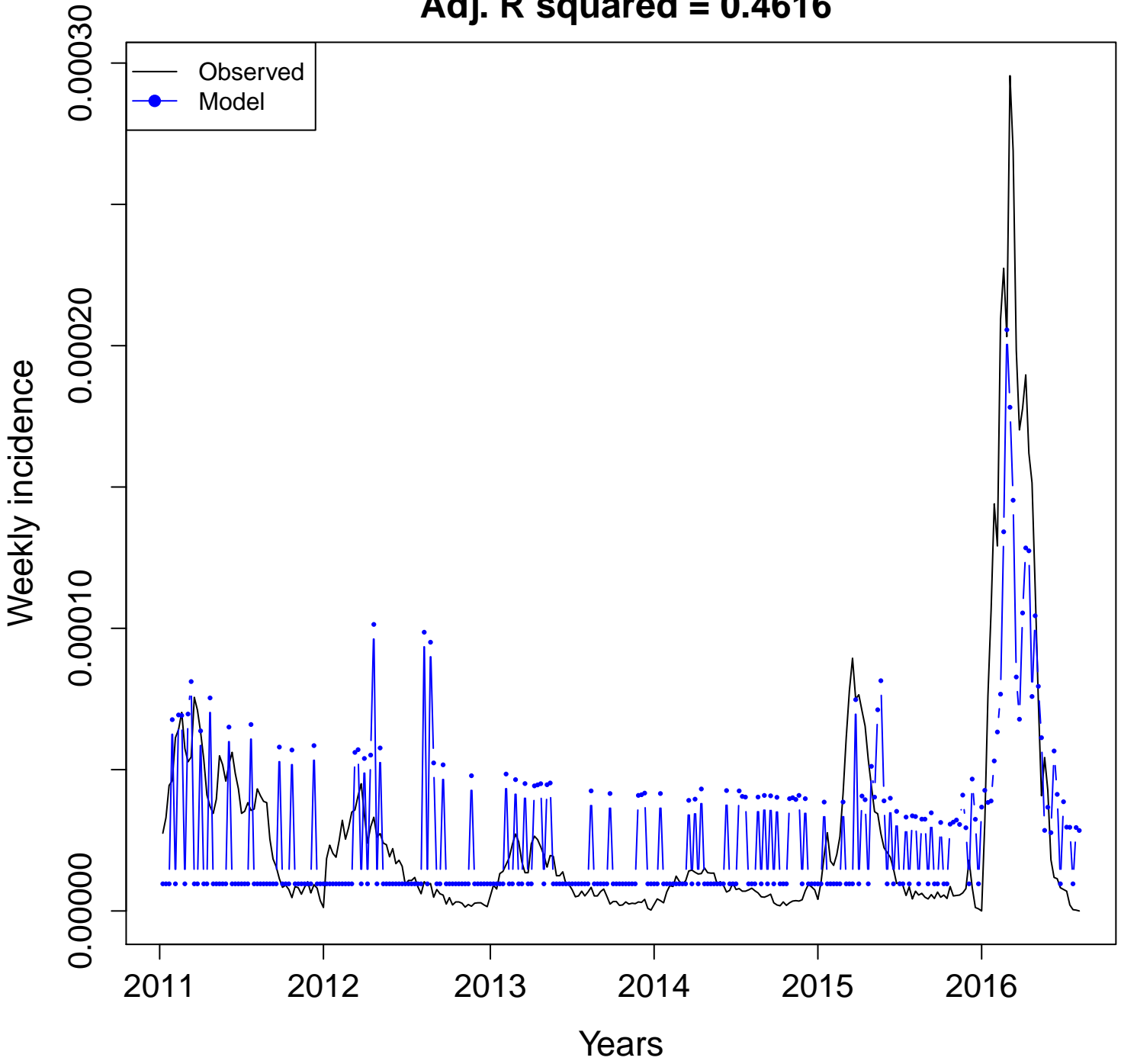
MA- dengue
Adj. R squared = 0.8314



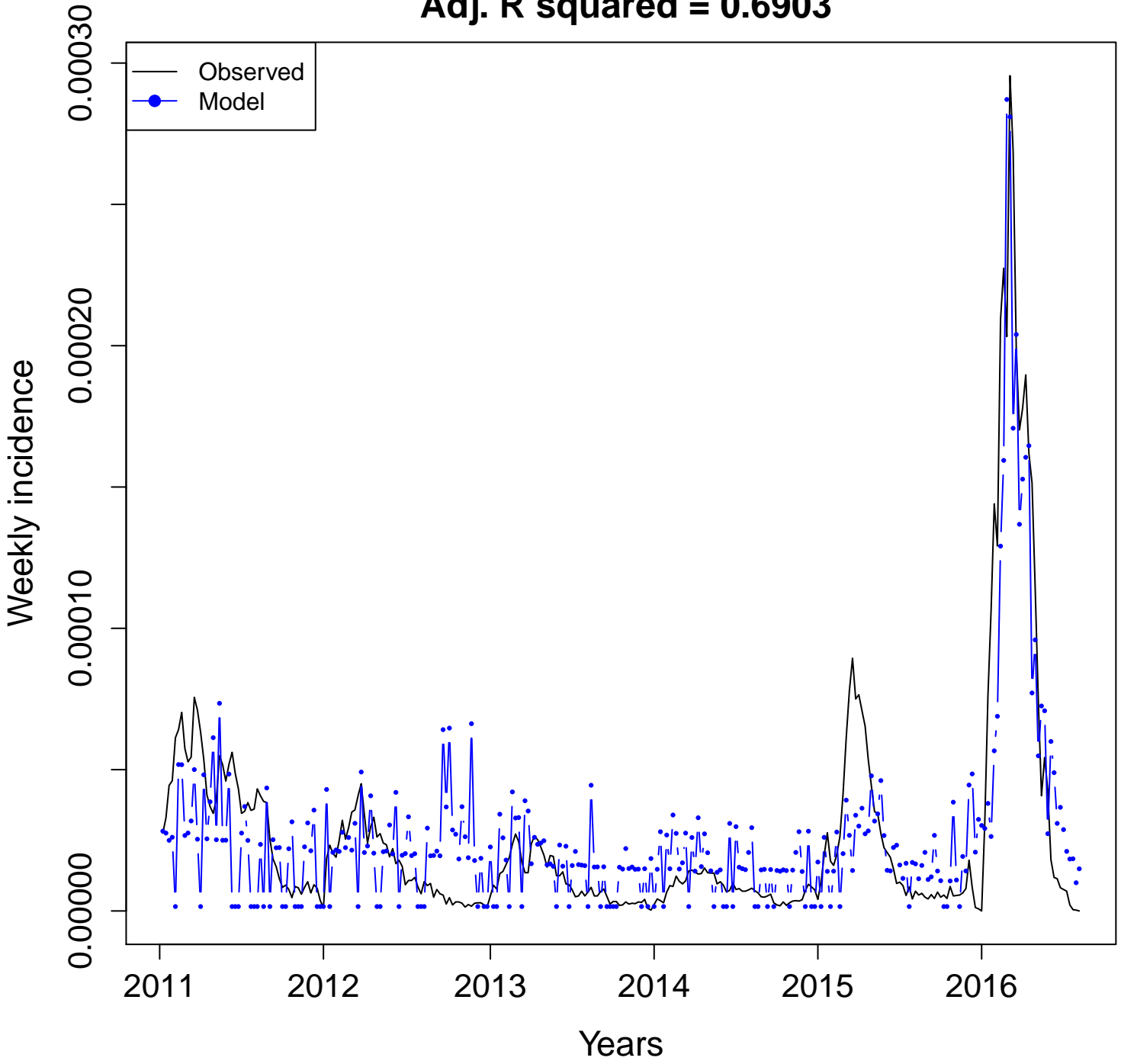
MA- dengue.sintomas
Adj. R squared = 0.4964



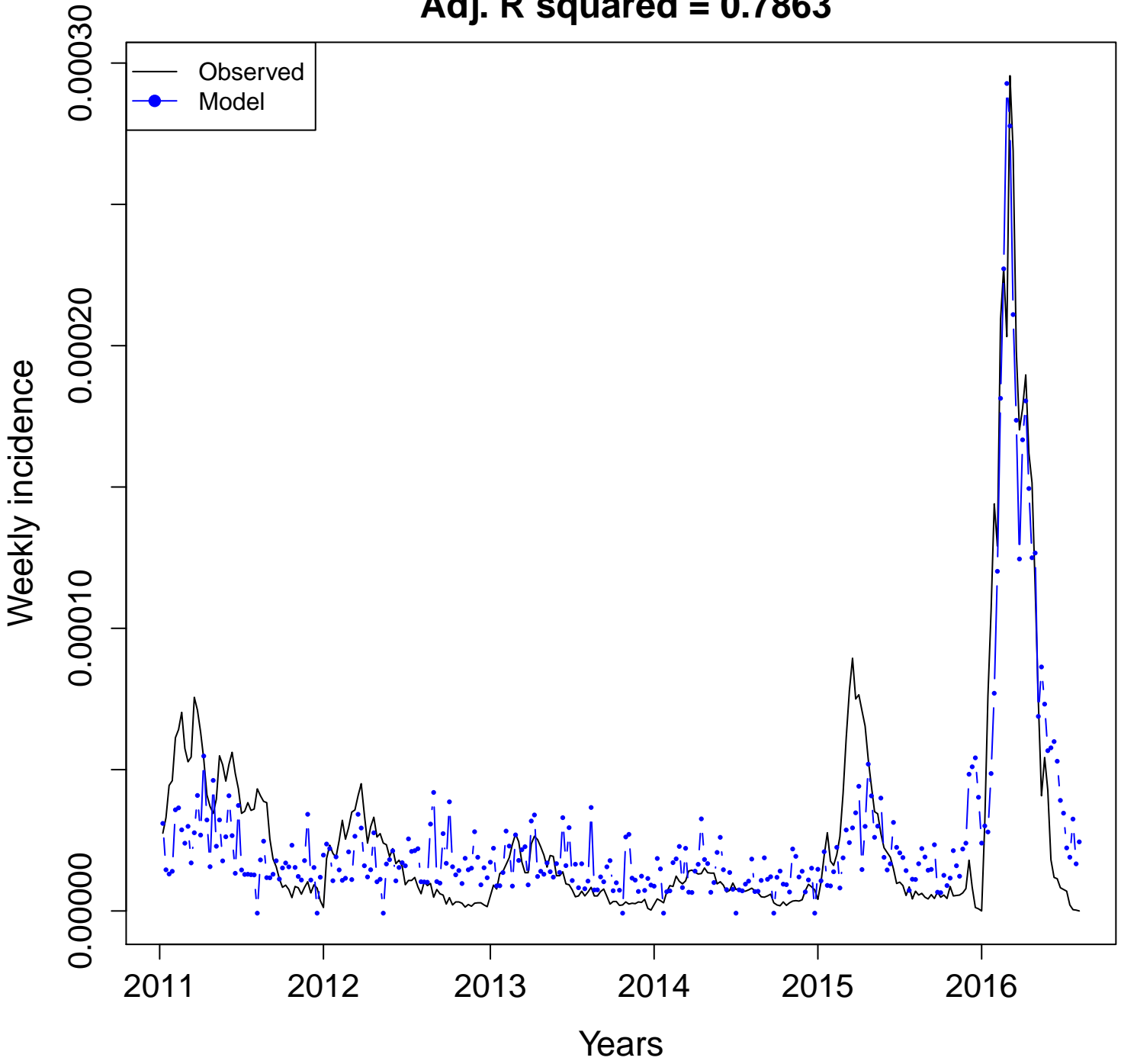
MA- dengue.virus
Adj. R squared = 0.4616



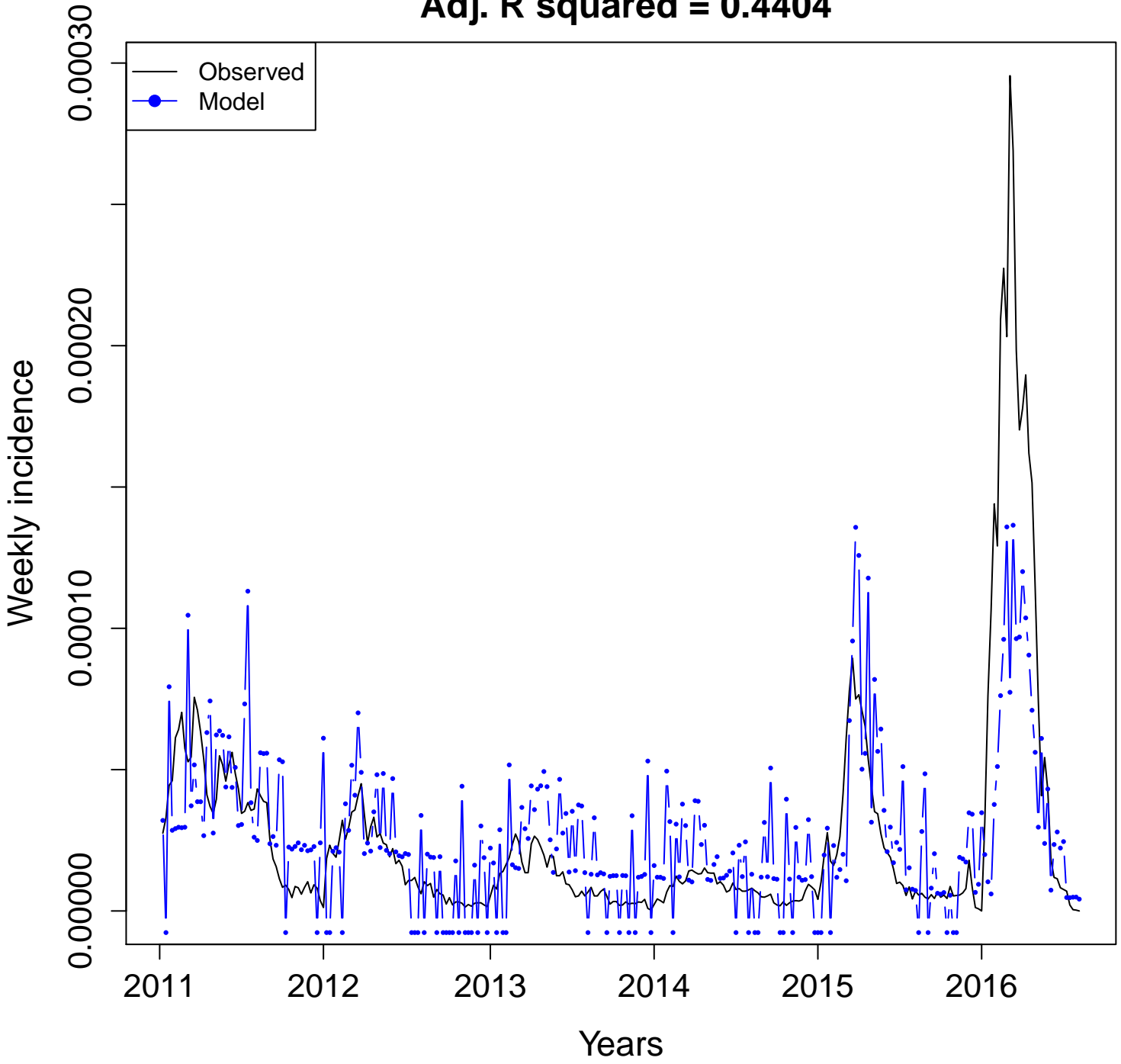
MA- mosquito.dengue
Adj. R squared = 0.6903



MA- mosquito
Adj. R squared = 0.7863



MA- sintomas.da.dengue
Adj. R squared = 0.4404



Minas Gerais (MG)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

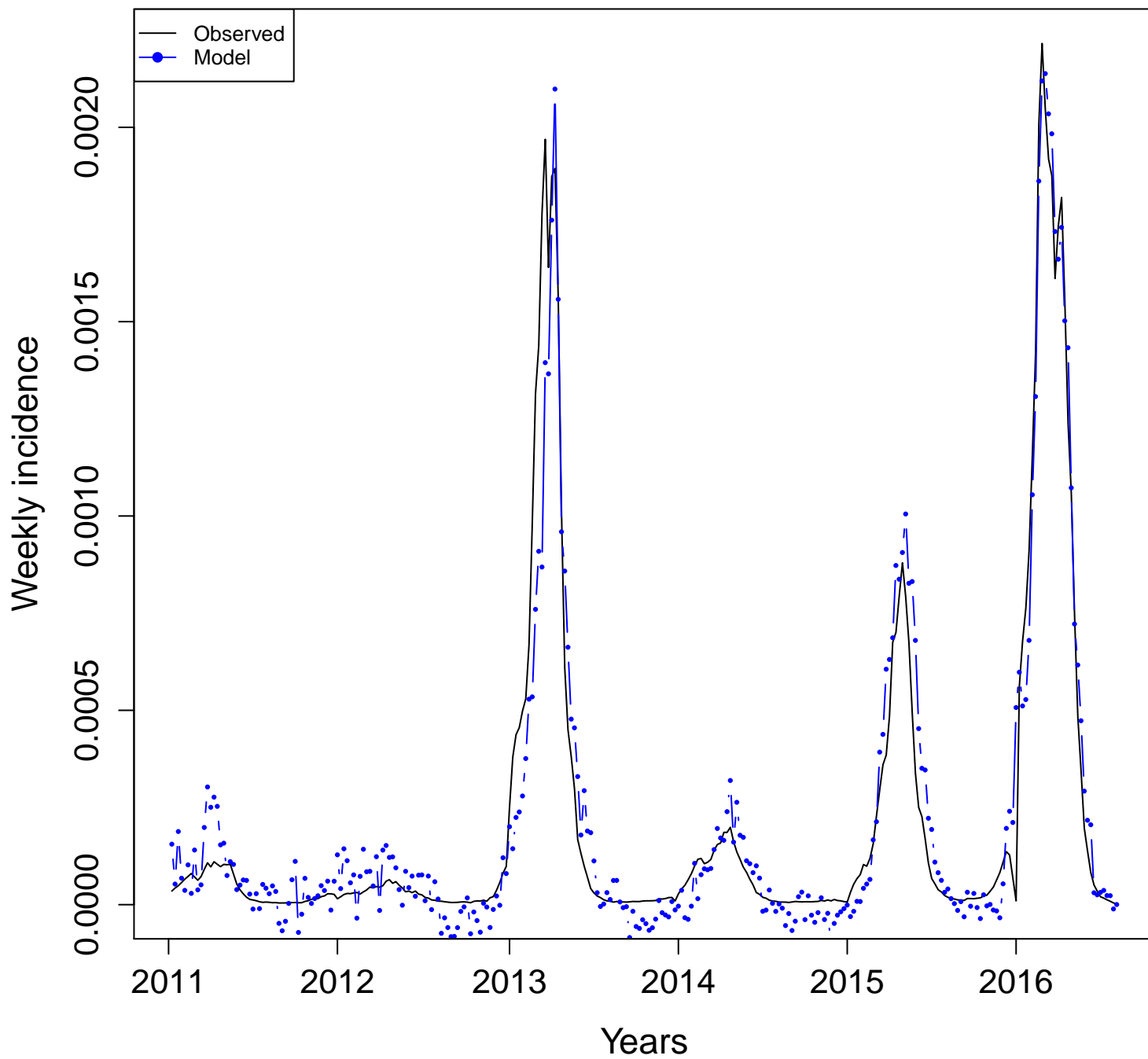
- **Combined terms:**
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- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

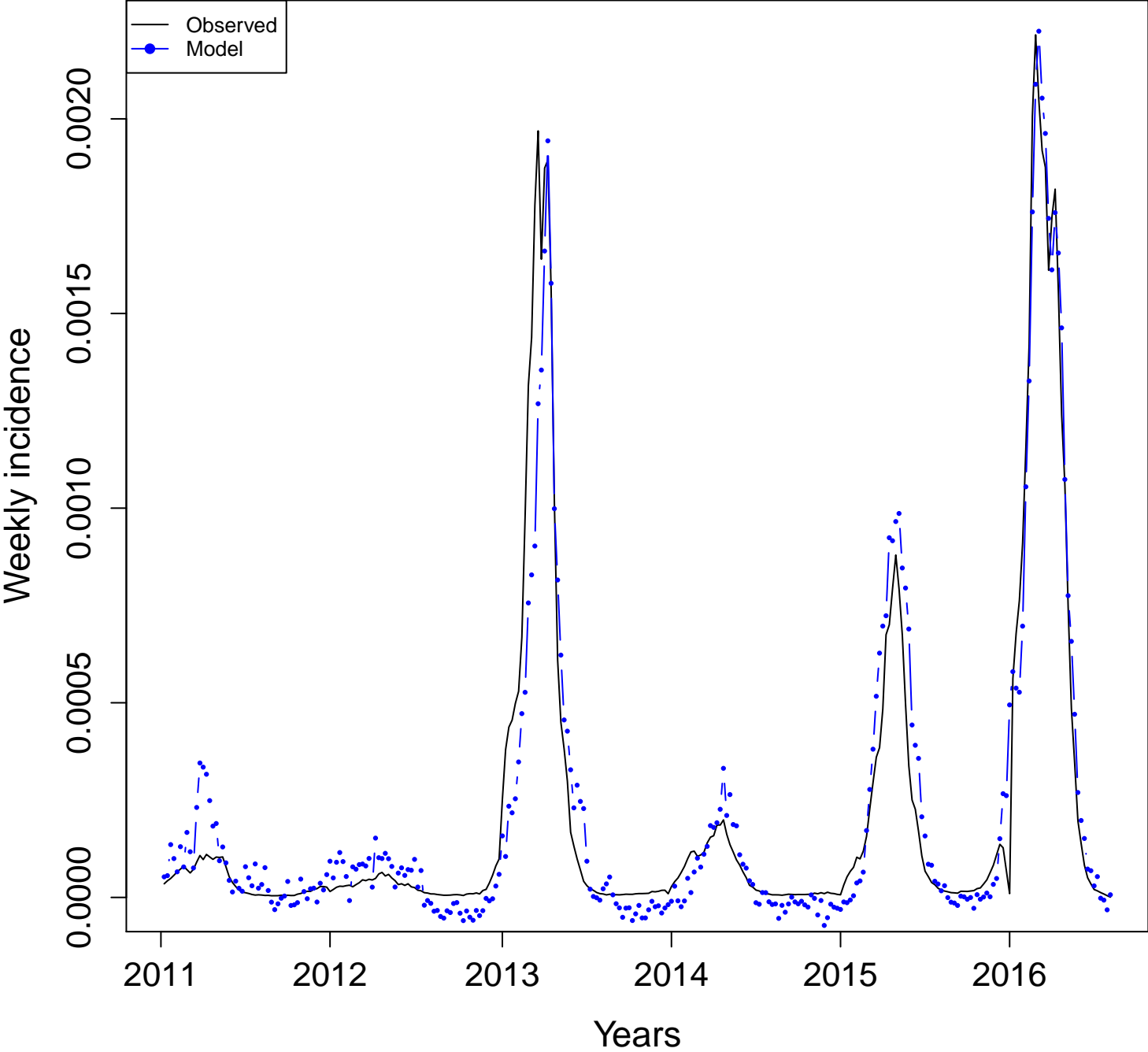
Minas Gerais (MG)

All
(n = 12)

BR-MG
Adj. R squared = 0.9229

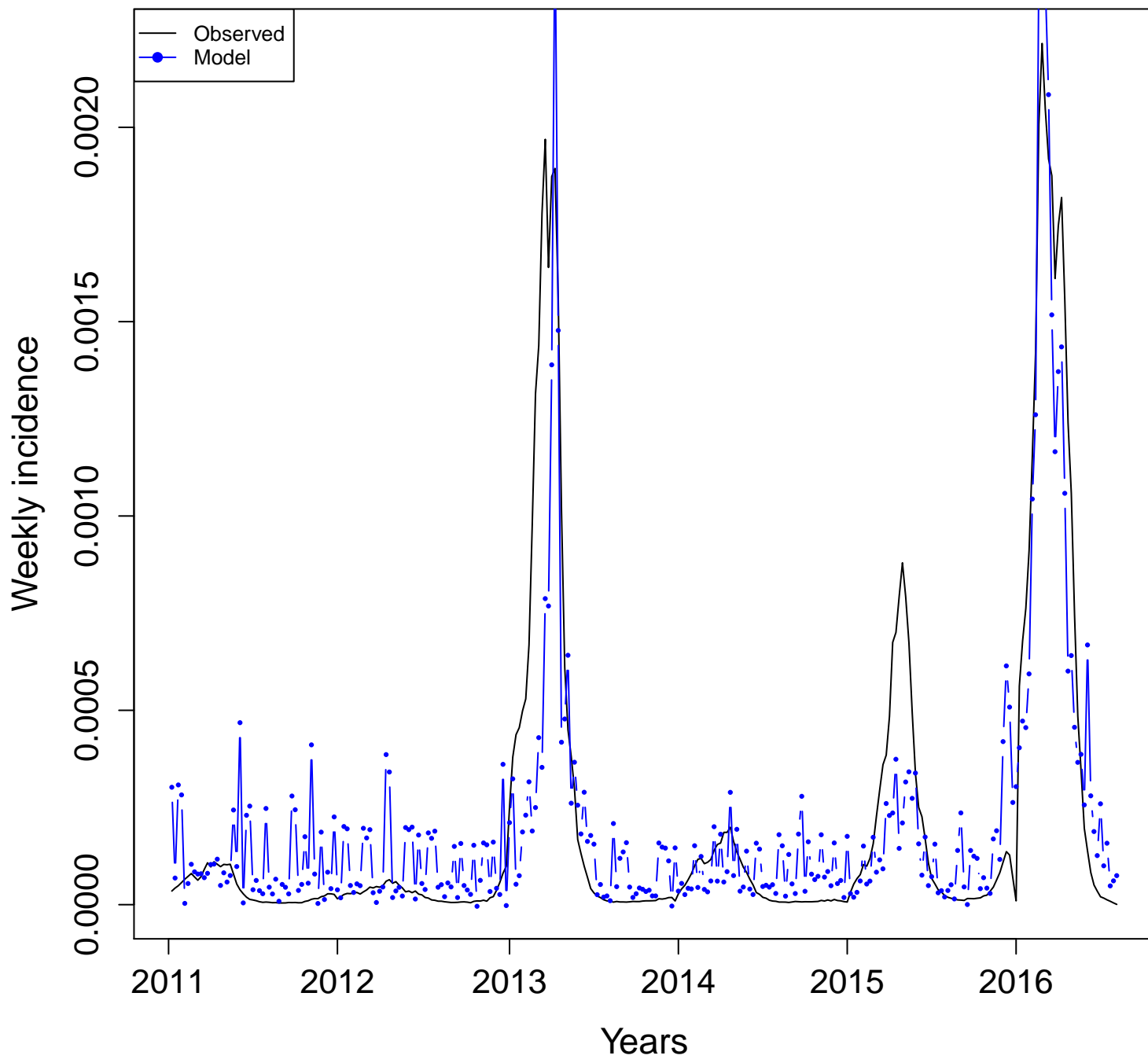


BR-MG
Adj. R squared = 0.9188



**Uncorrelated
(n = 4)**

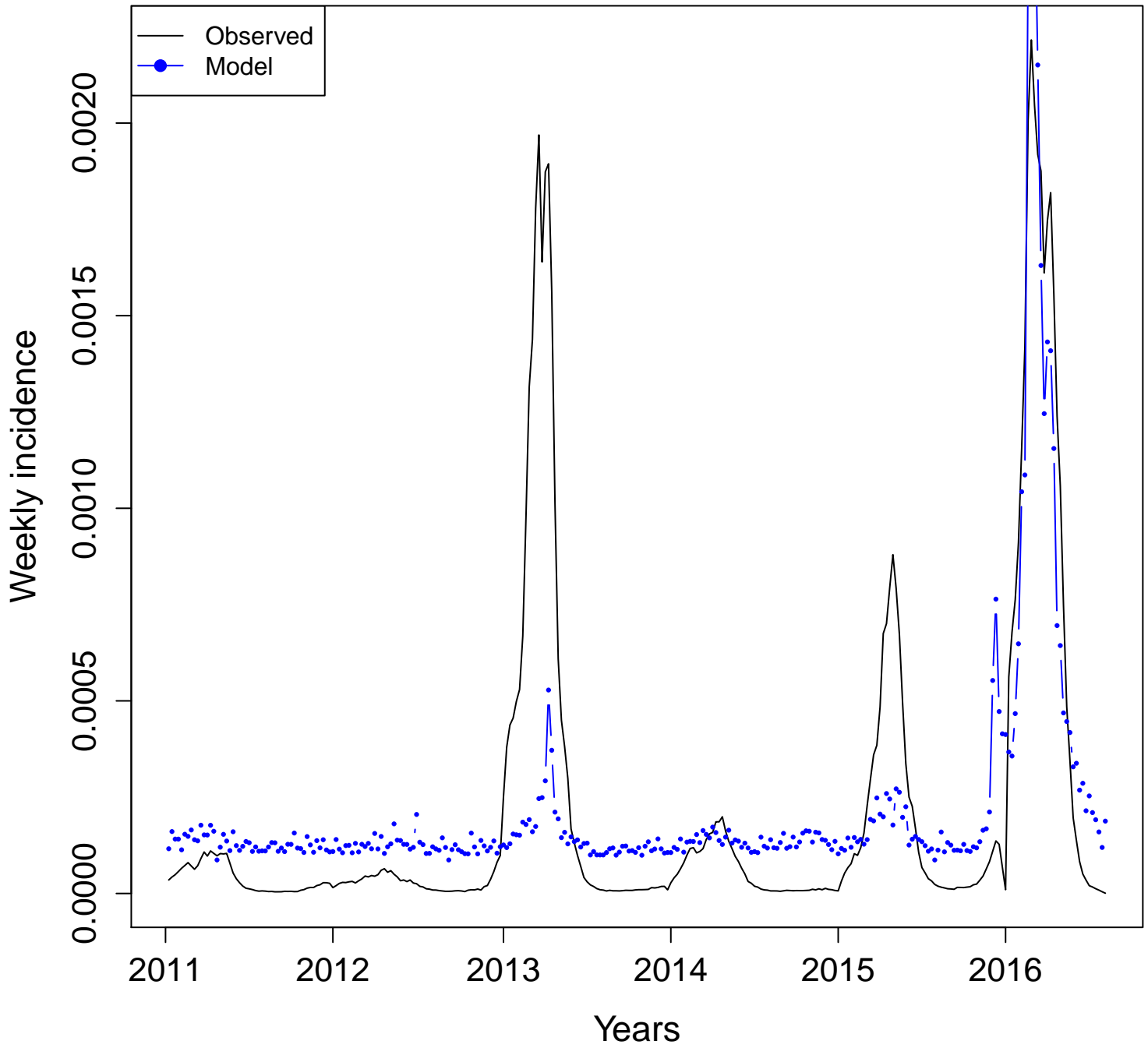
**BR-MG
Adj. R squared = 0.7182**



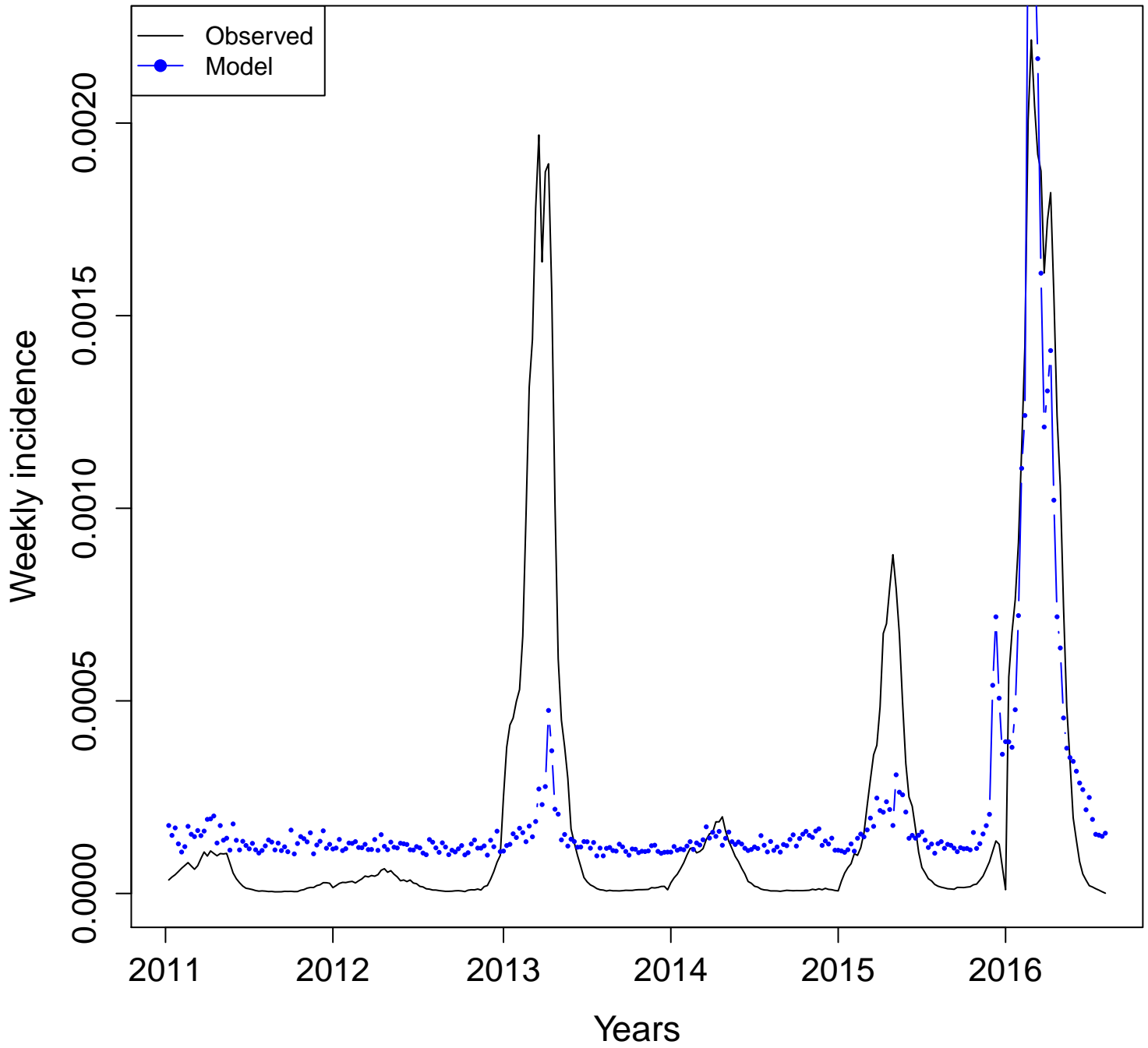
Individual terms
Adjusted R squared

Minas Gerais (MG)

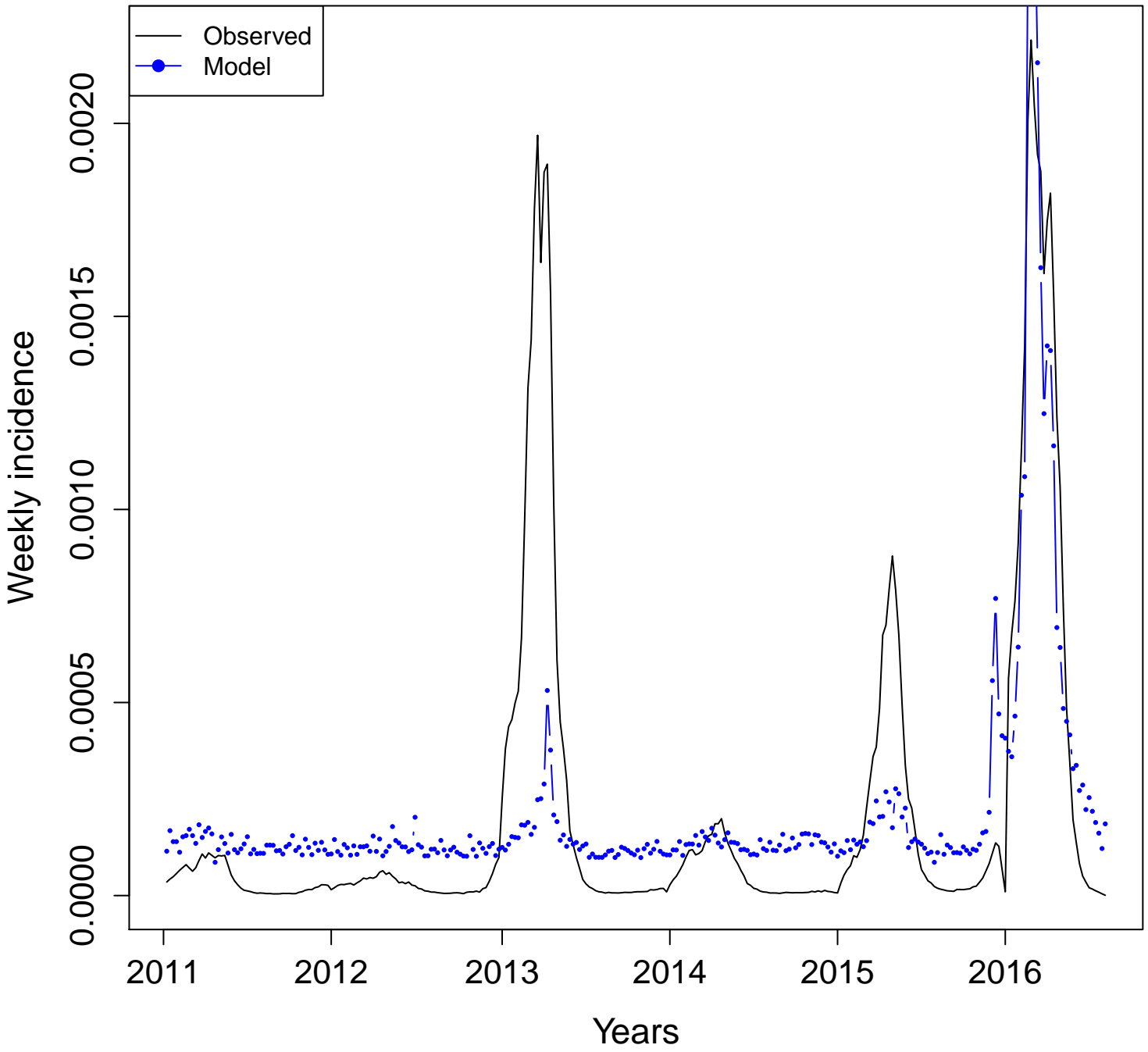
MG- aedes.aegypti
Adj. R squared = 0.5555



MG- aedes
Adj. R squared = 0.5508

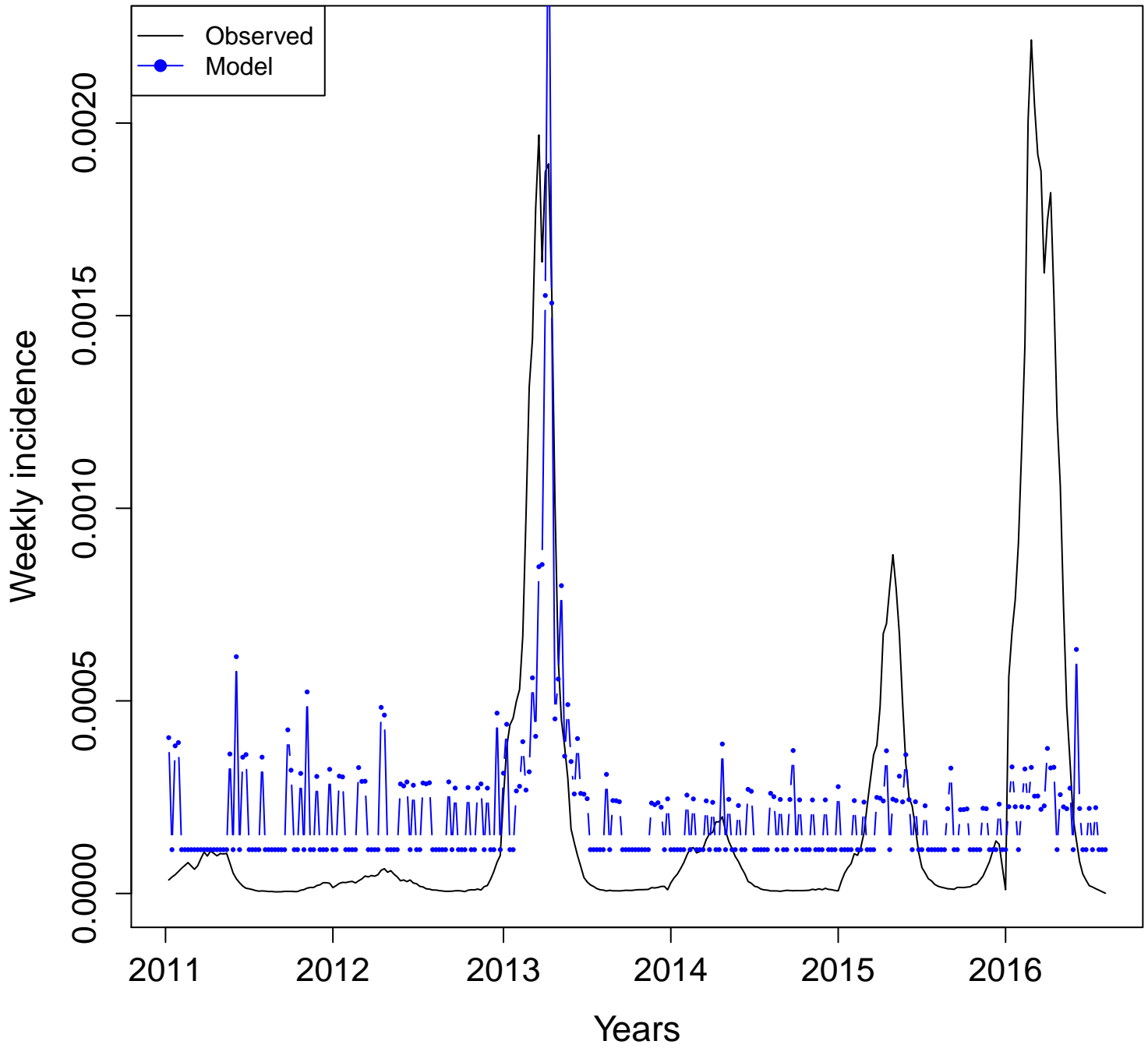


MG- aegypti
Adj. R squared = 0.5559



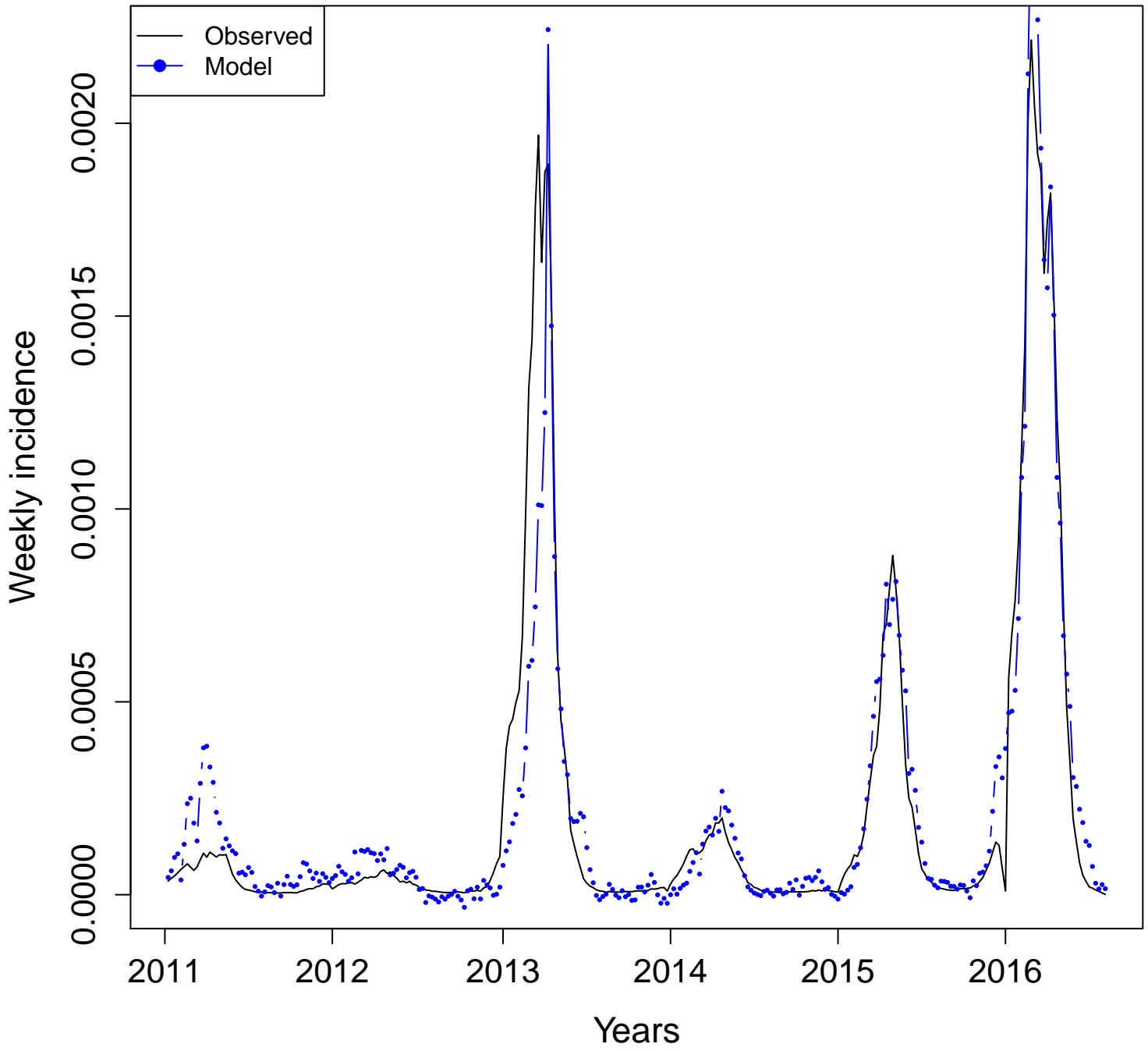
MG- dengue.fever

Adj. R squared = 0.2394

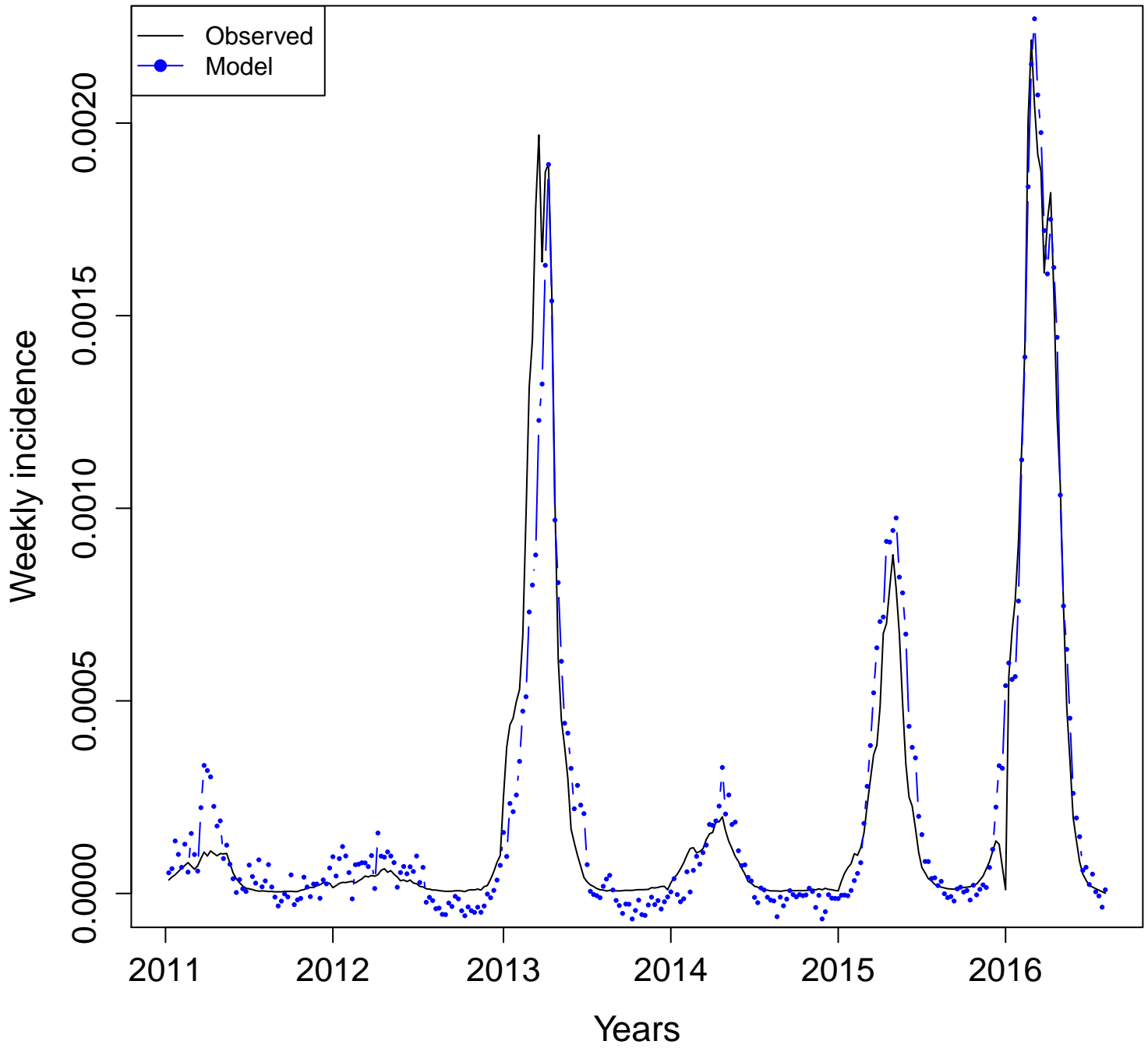


MG- dengue

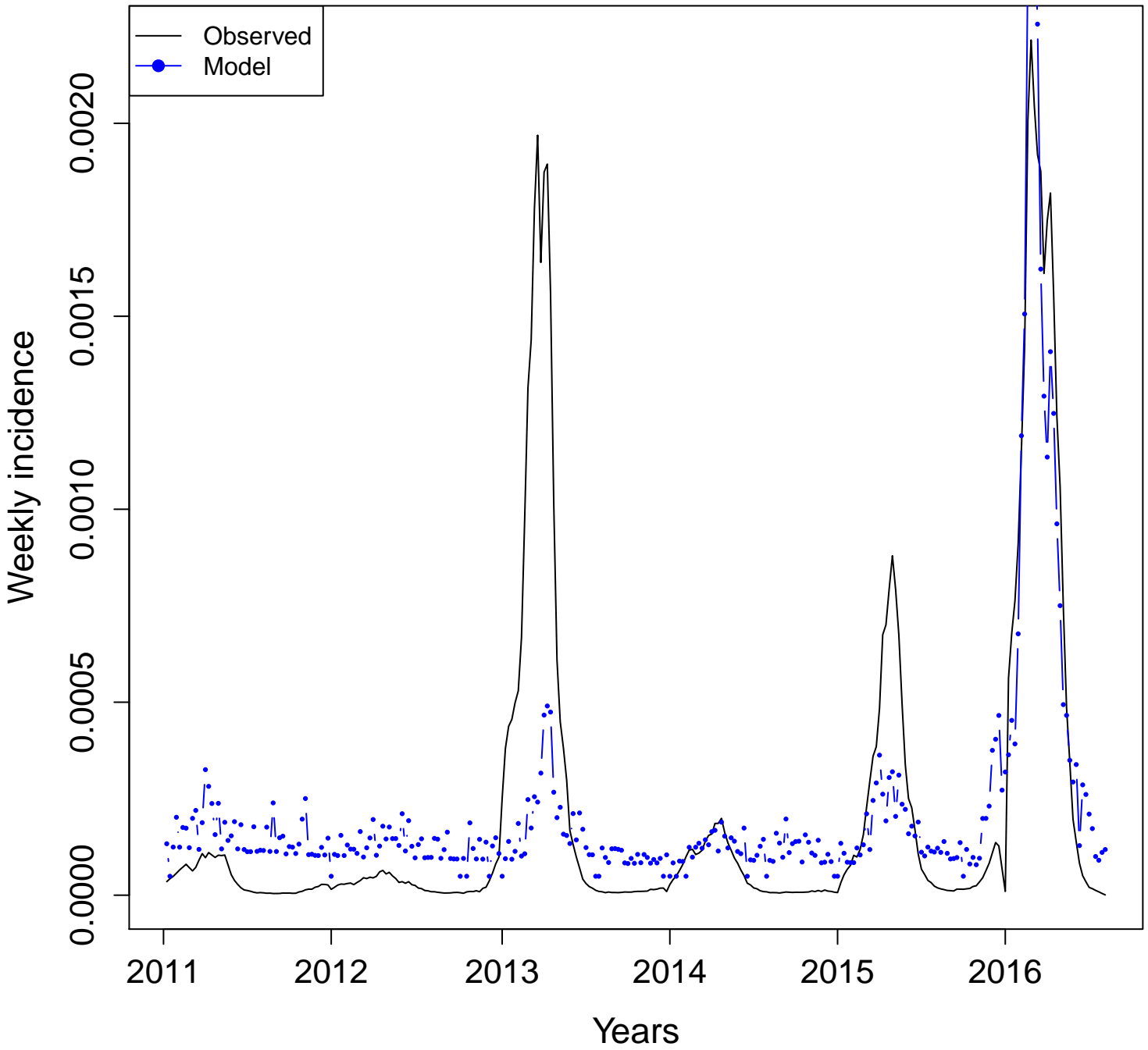
Adj. R squared = 0.8799



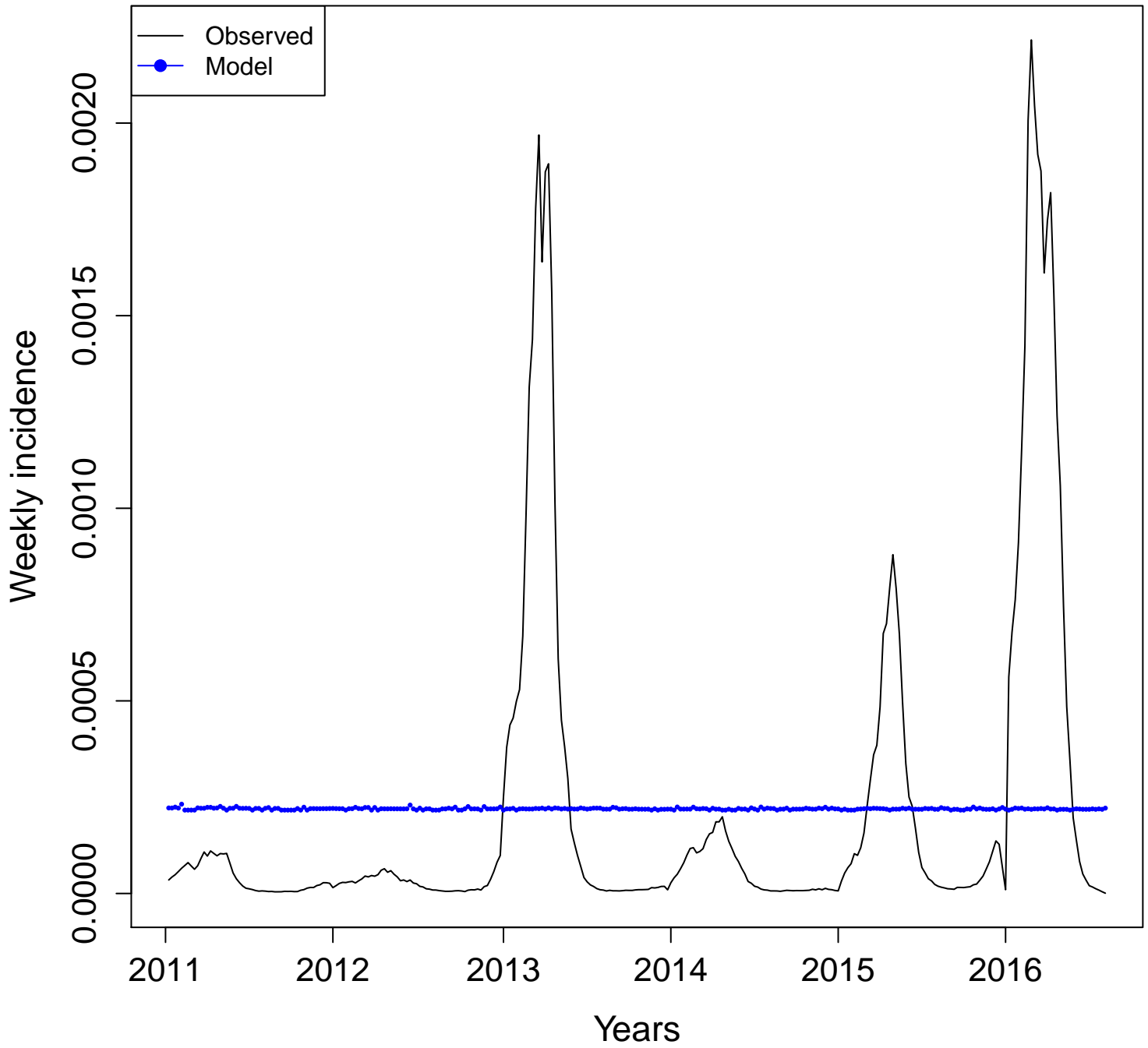
MG- dengue.sintomas
Adj. R squared = 0.9183



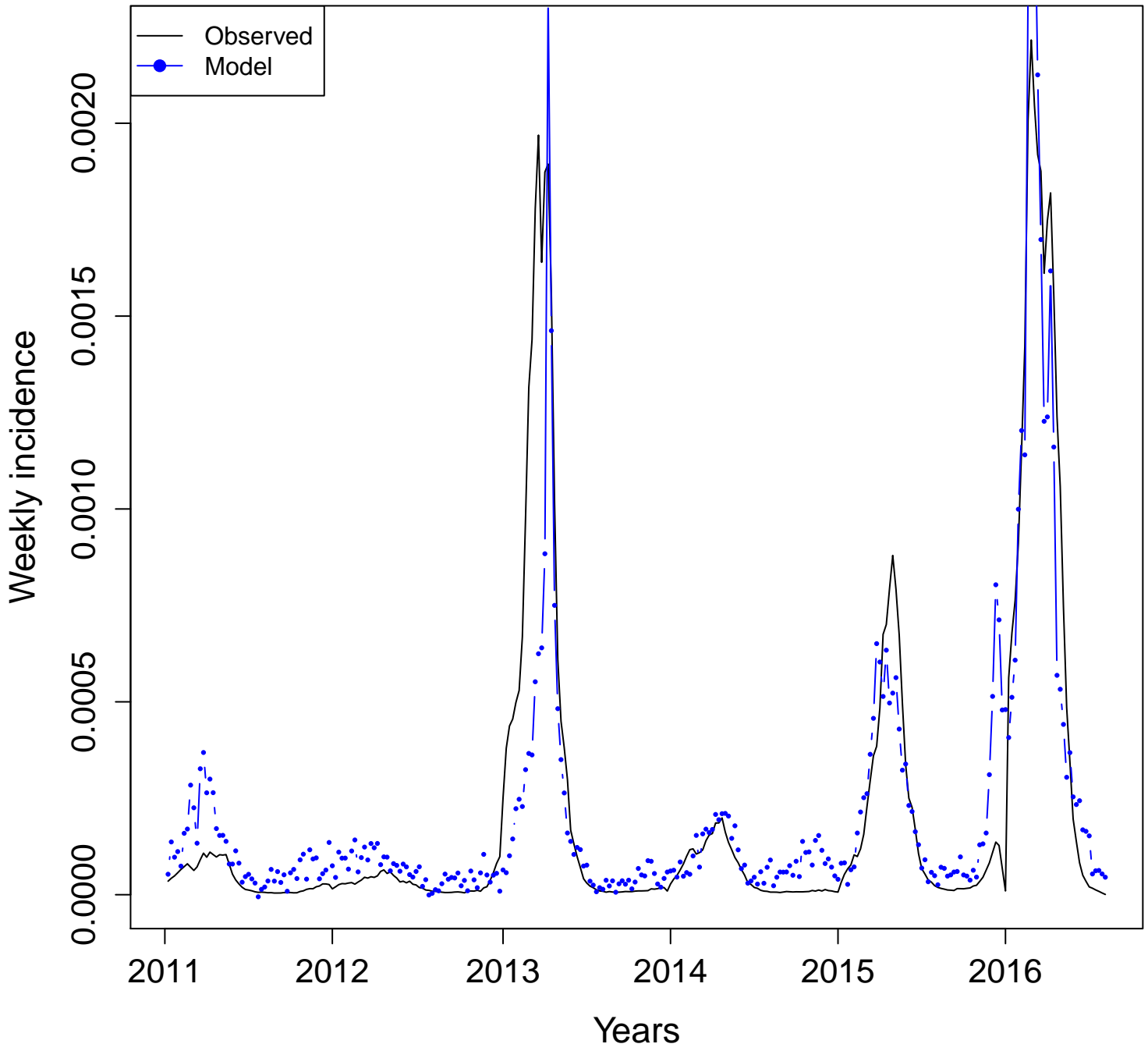
MG- dengue.virus
Adj. R squared = 0.5912



MG- DHF
Adj. R squared = -0.0034

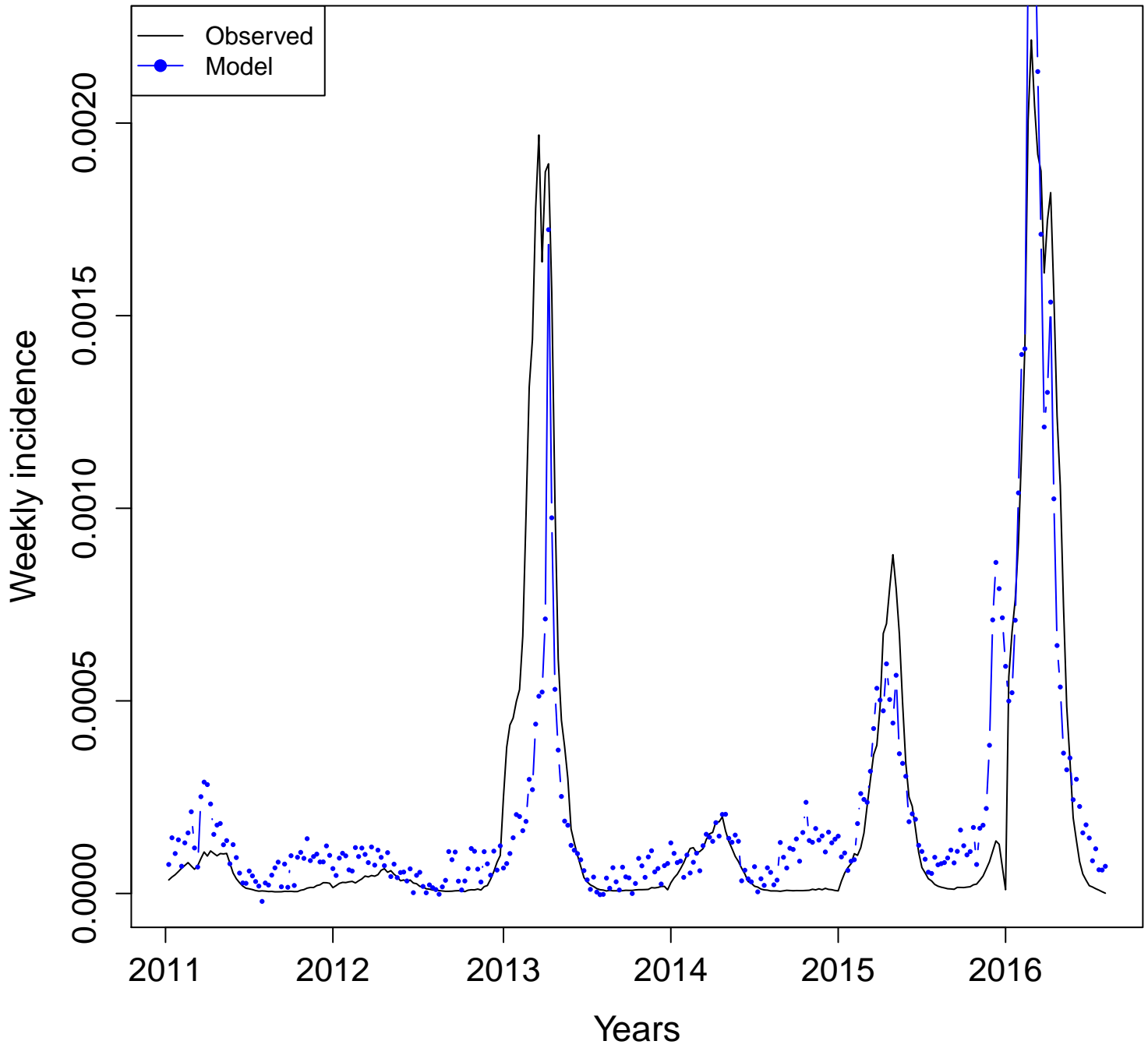


MG- mosquito.dengue
Adj. R squared = 0.7608



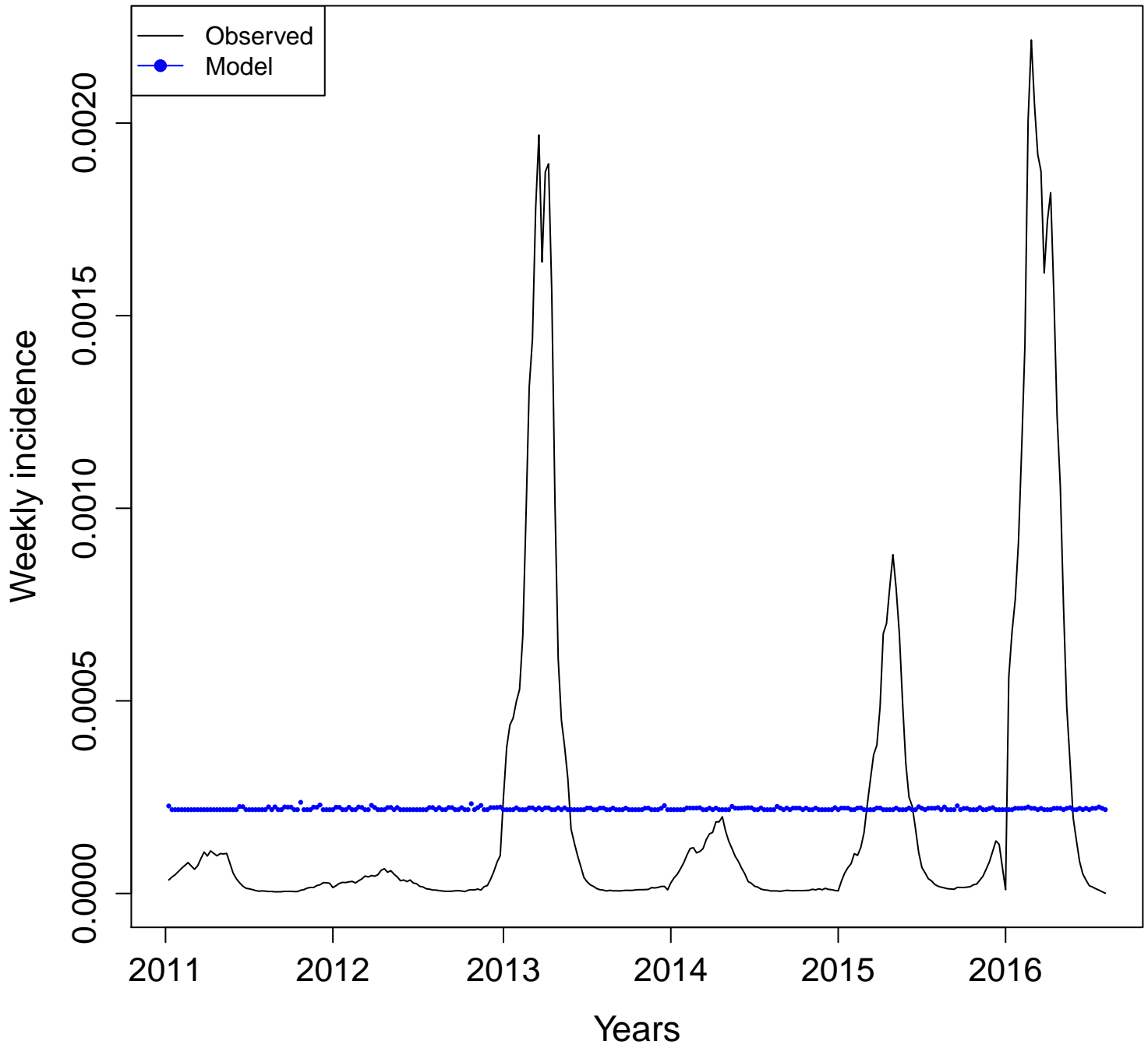
MG- mosquito

Adj. R squared = 0.7047

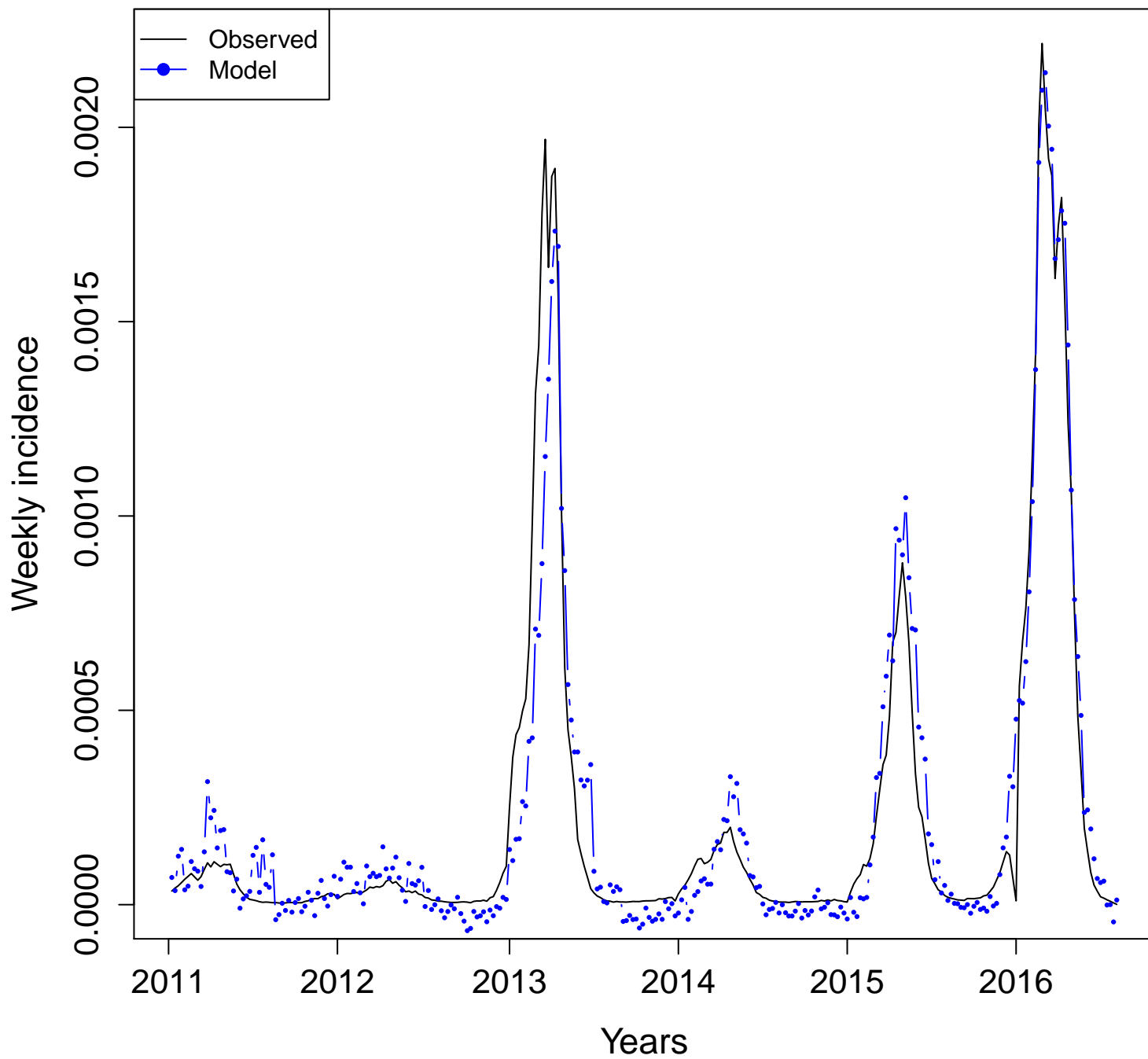


MG- mosquitoes

Adj. R squared = -0.0034



MG- sintomas.da.dengue
Adj. R squared = 0.9072



Mato Grosso do Sul (MS)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

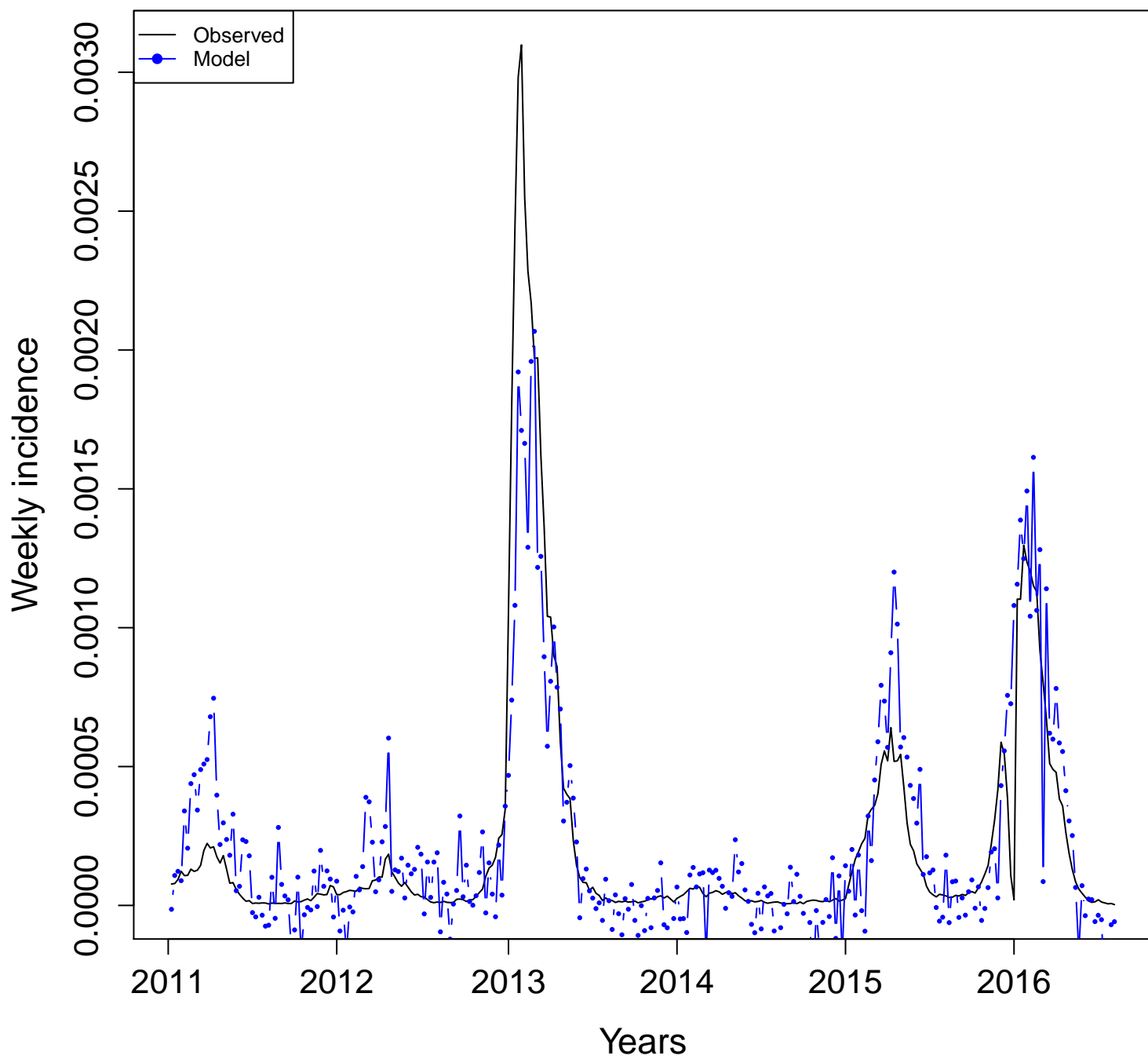
- **Combined terms:**
 - **All:** model with all the available terms. $n =$ number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. $n =$ number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

**Combined terms
Adjusted R squared**

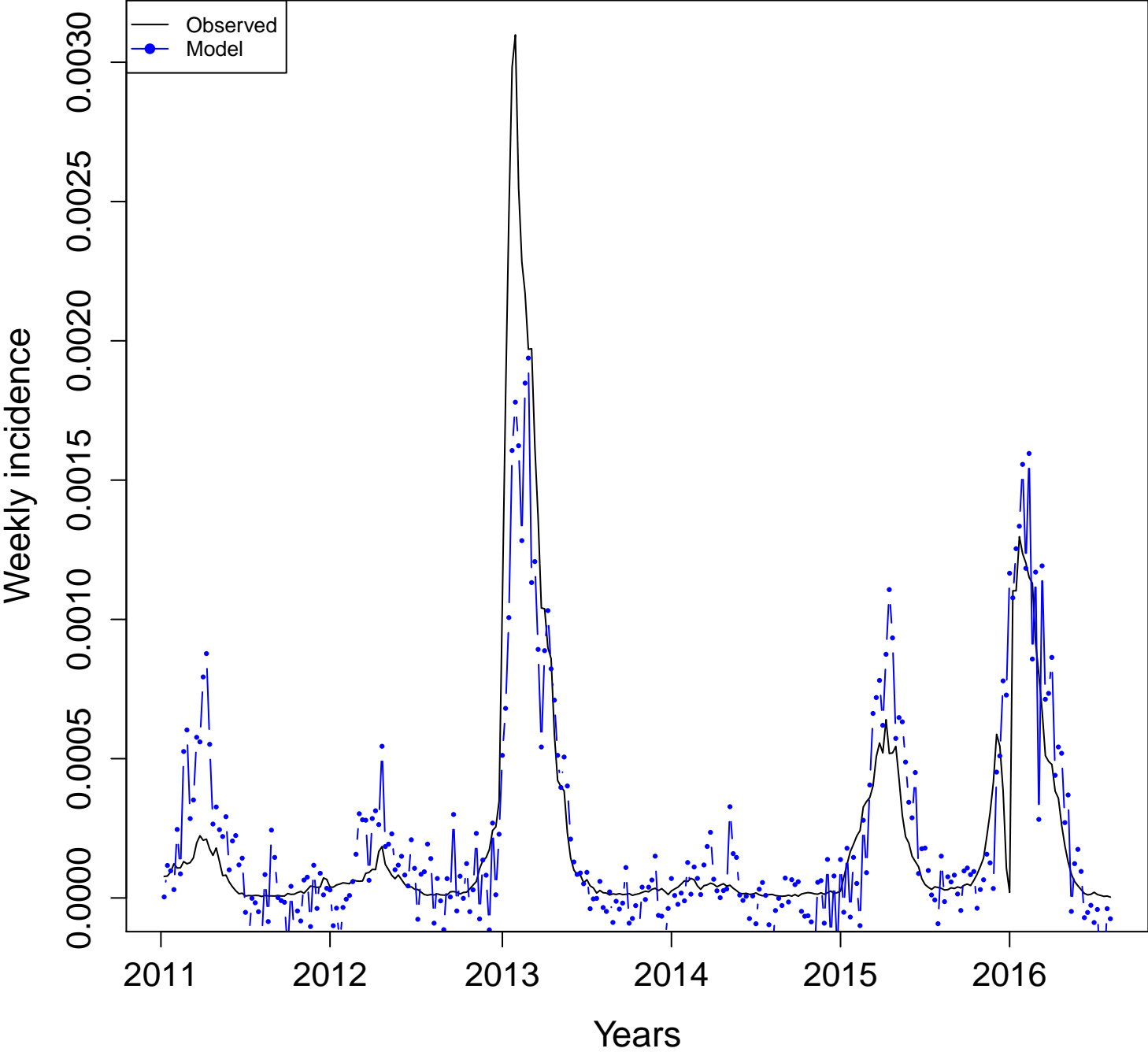
**Mato Grosso do Sul
(MS)**

All
(n = 9)

BR-MS
Adj. R squared = 0.7135

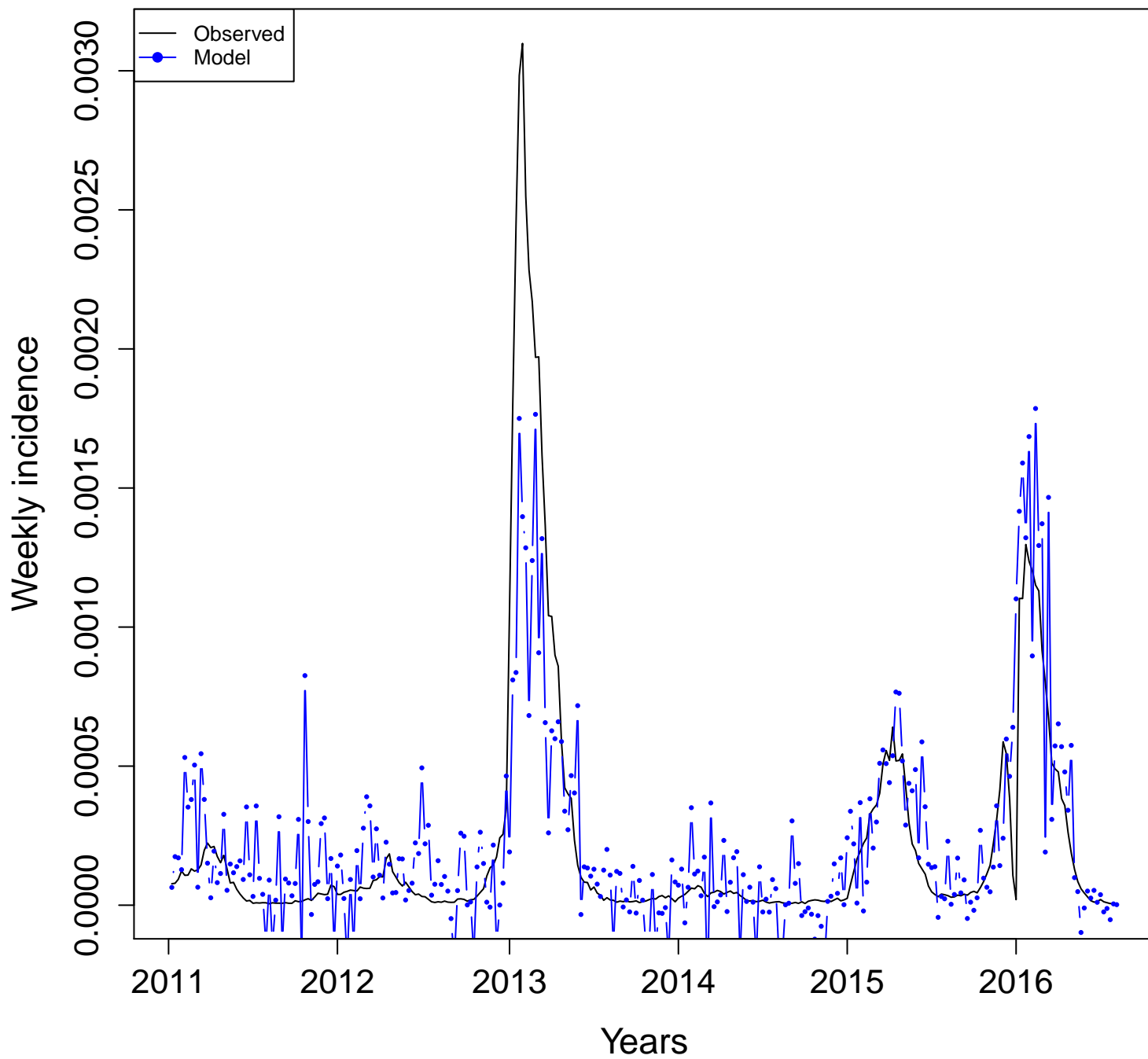


BR-MS
Adj. R squared = 0.6943



**Uncorrelated
(n = 3)**

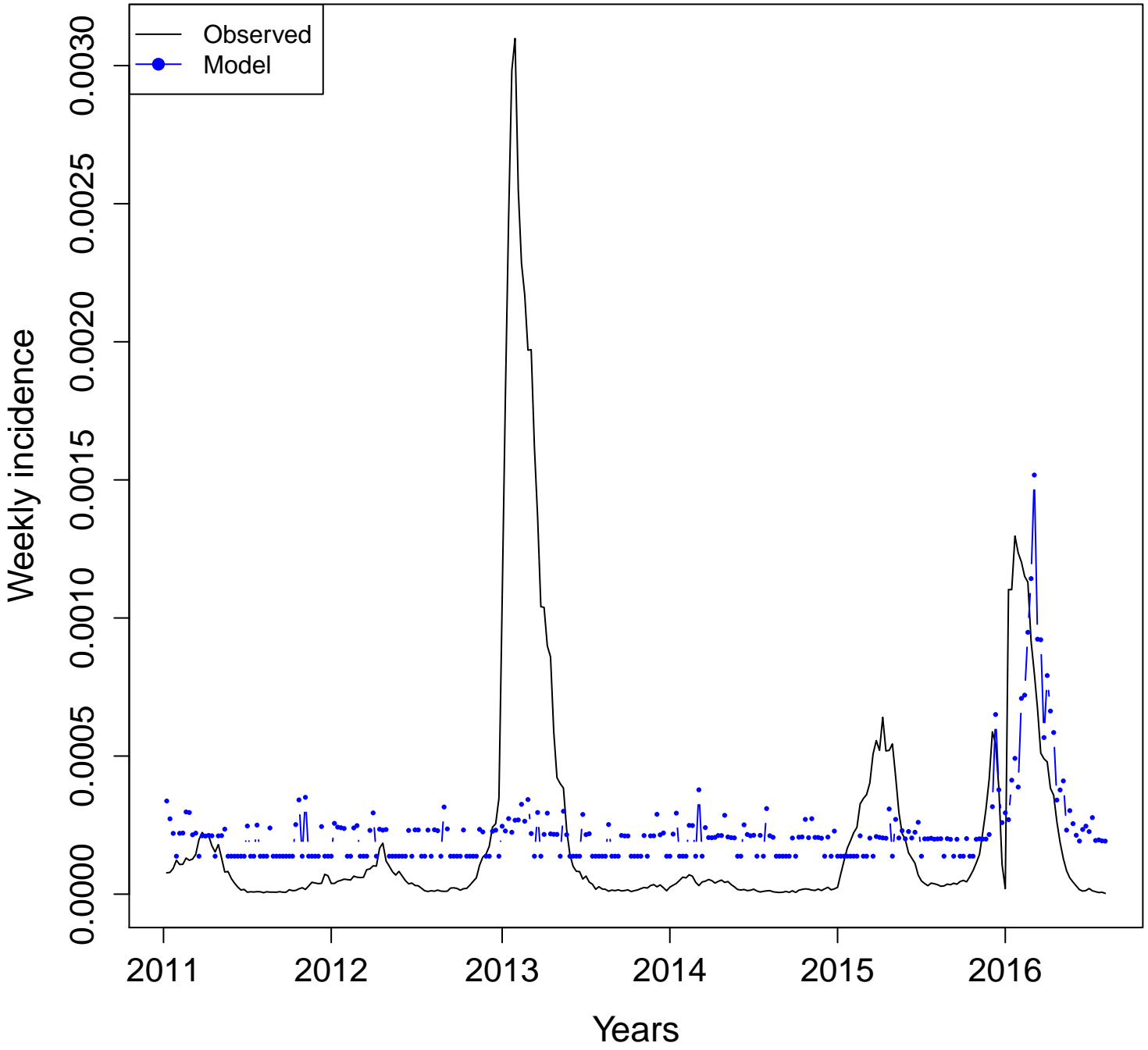
**BR-MS
Adj. R squared = 0.5826**



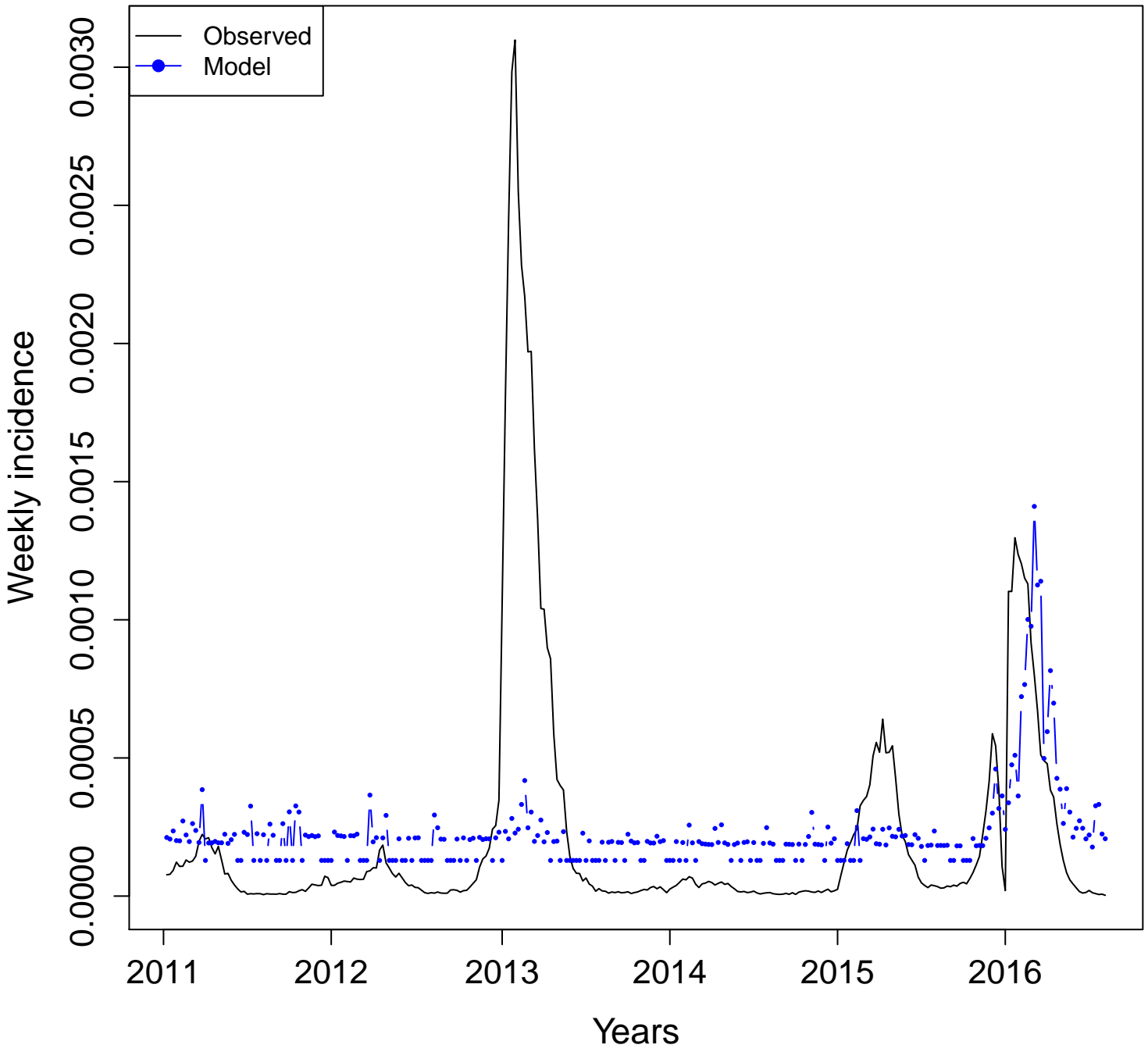
Individual terms
Adjusted R squared

Mato Grosso do Sul
(MS)

MS- aedes.aegypti
Adj. R squared = 0.1003

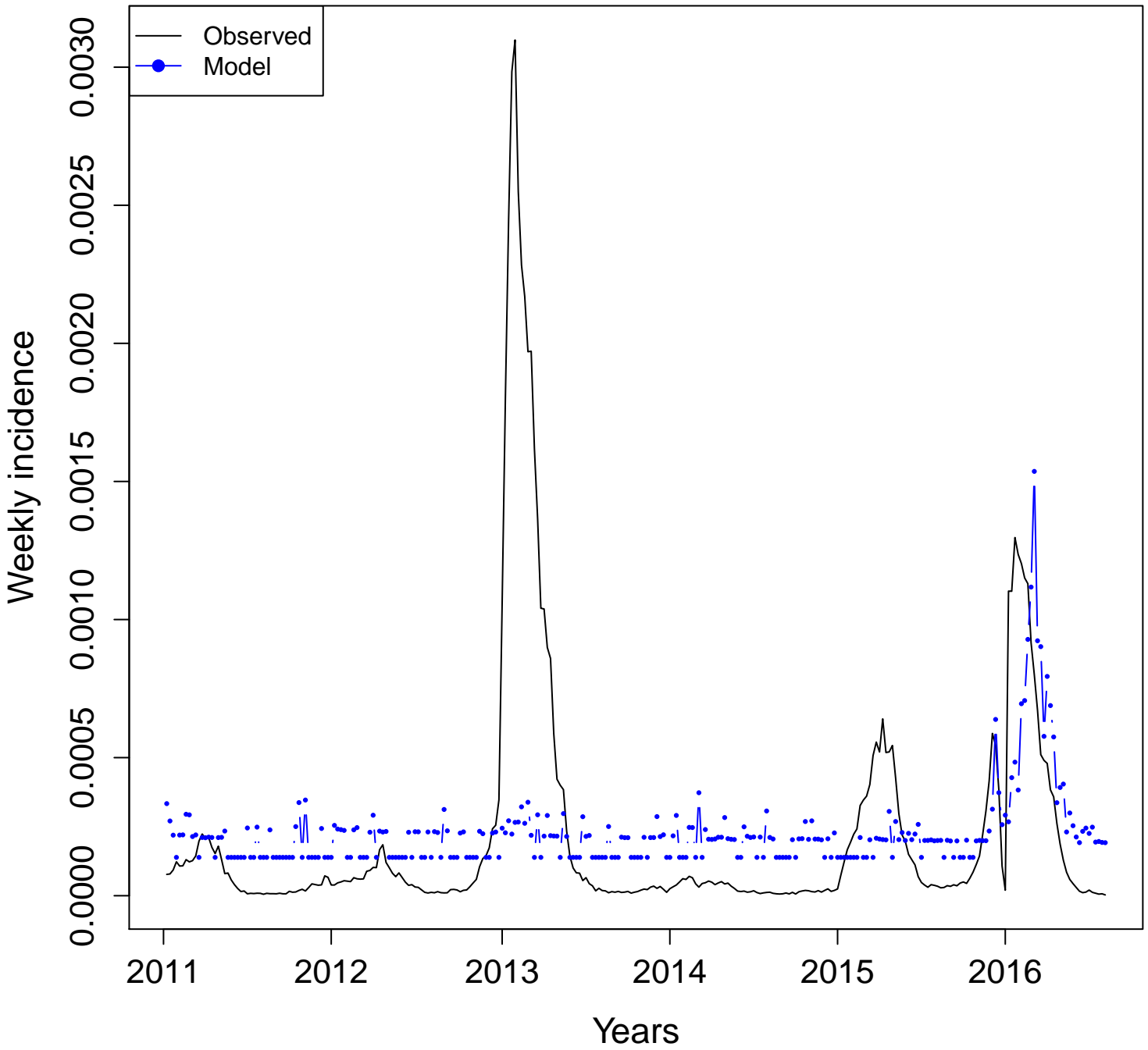


MS- aedes
Adj. R squared = 0.1035



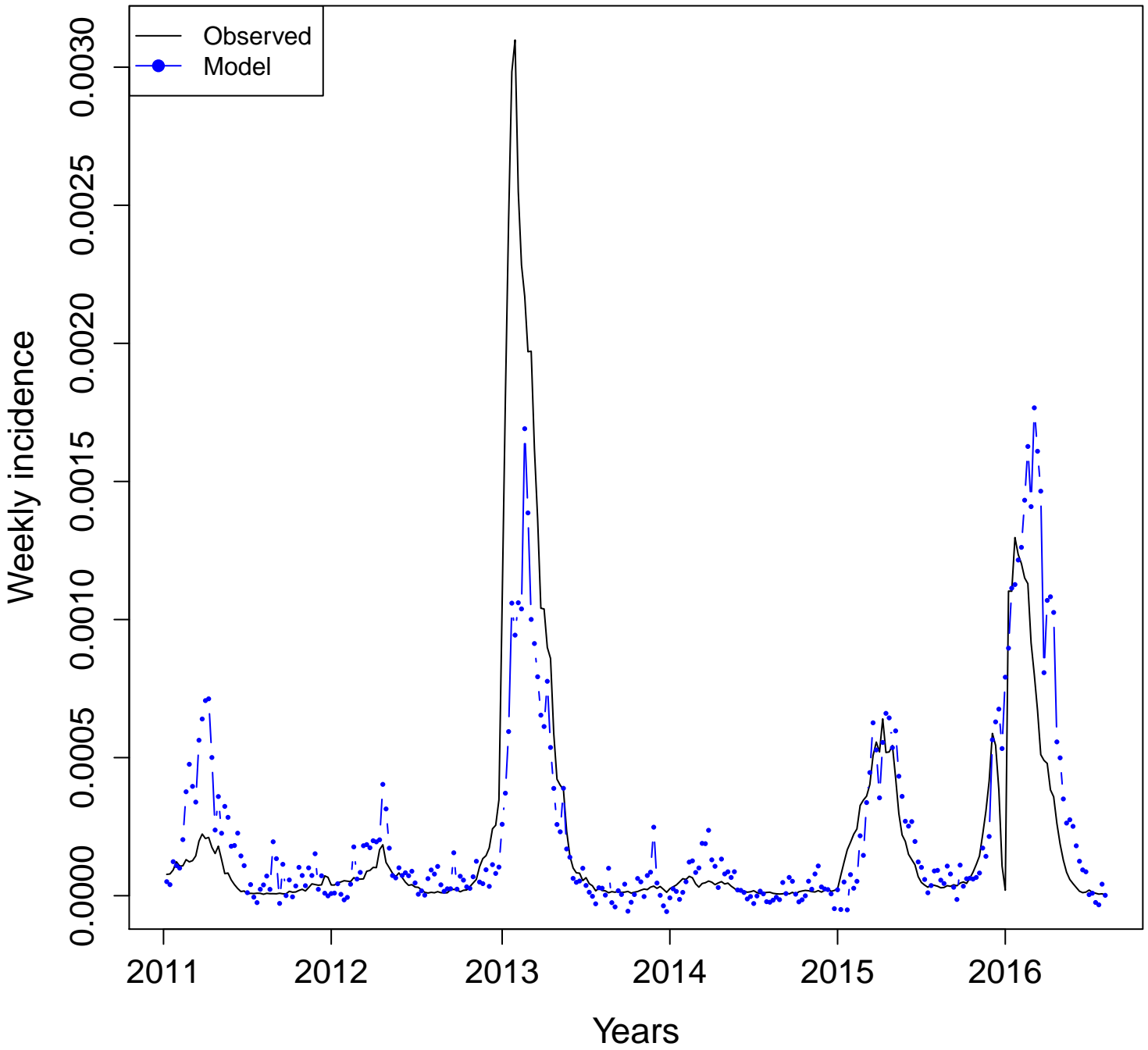
MS- aegypti

Adj. R squared = 0.0986

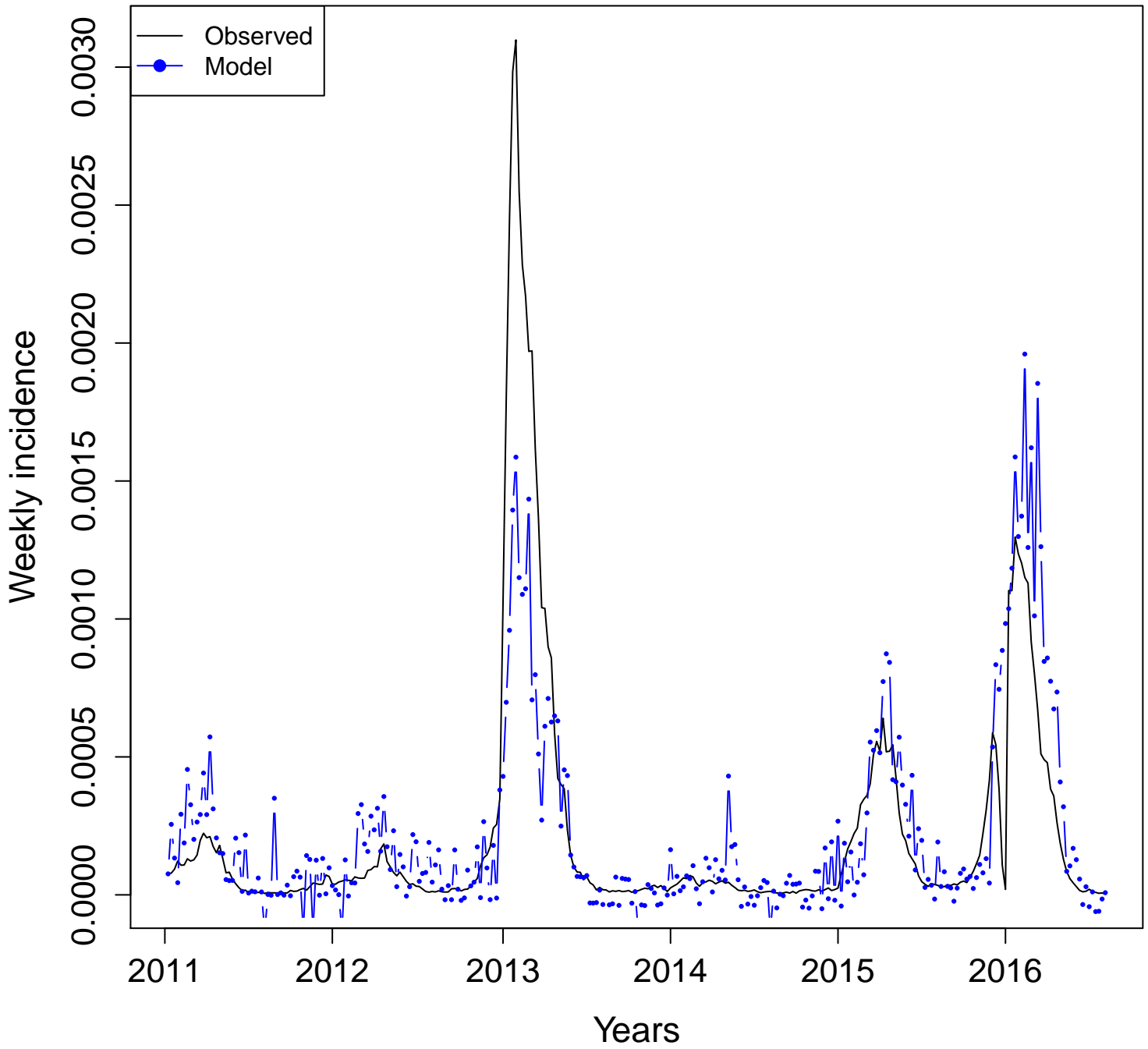


MS- dengue

Adj. R squared = 0.5422

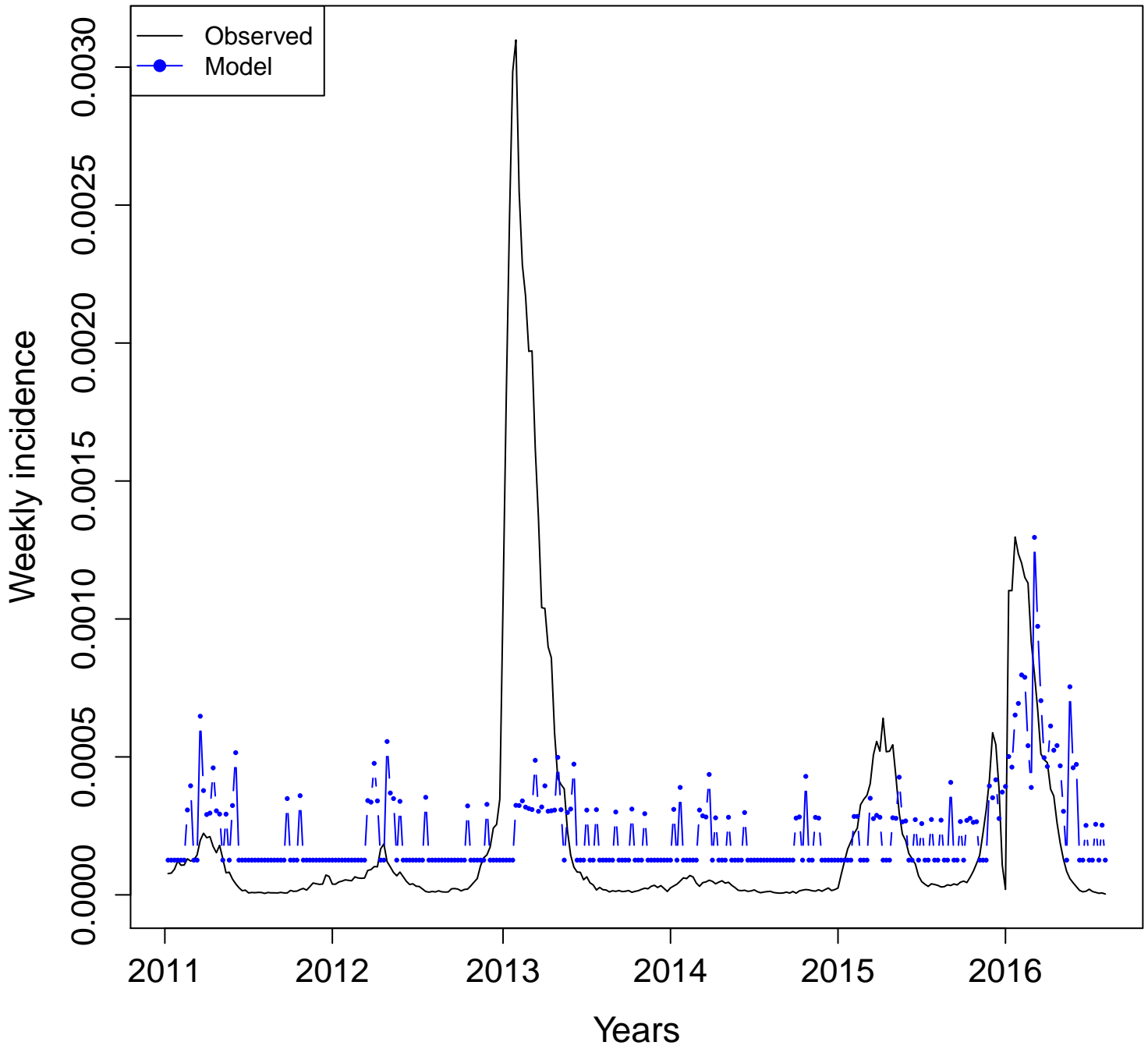


MS- dengue.sintomas
Adj. R squared = 0.5956

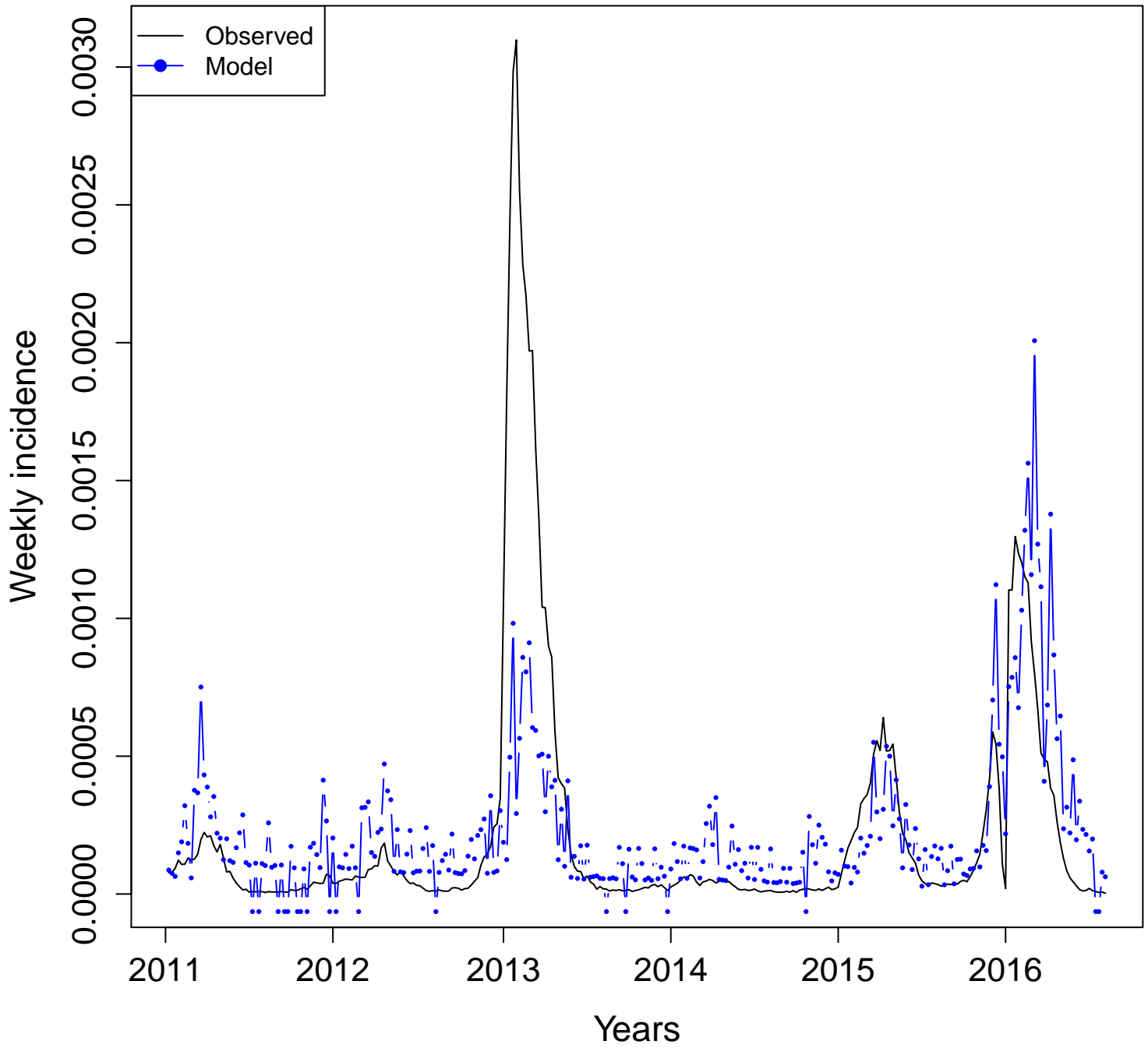


MS- dengue.virus

Adj. R squared = 0.1113

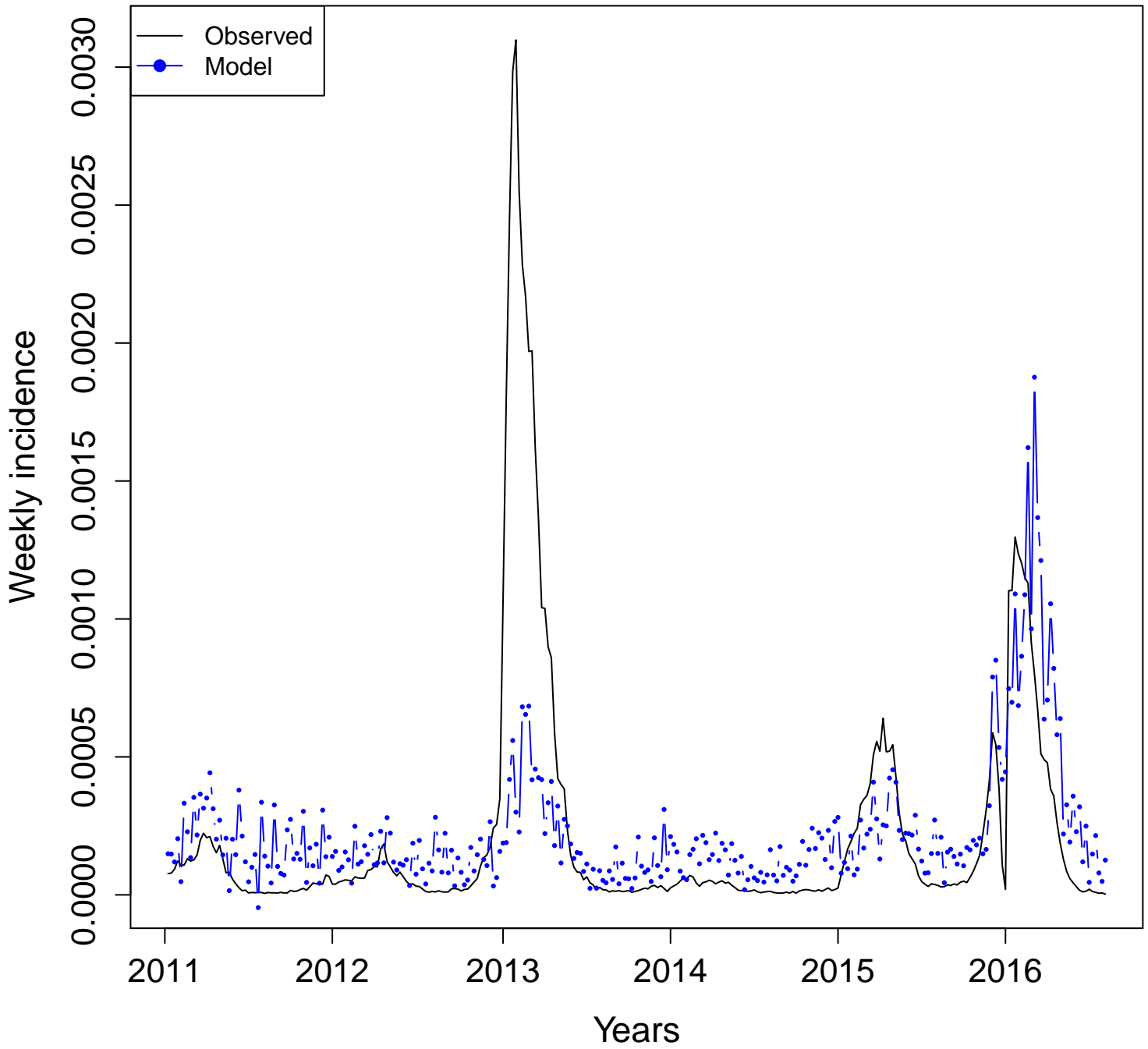


MS- mosquito.dengue
Adj. R squared = 0.3376

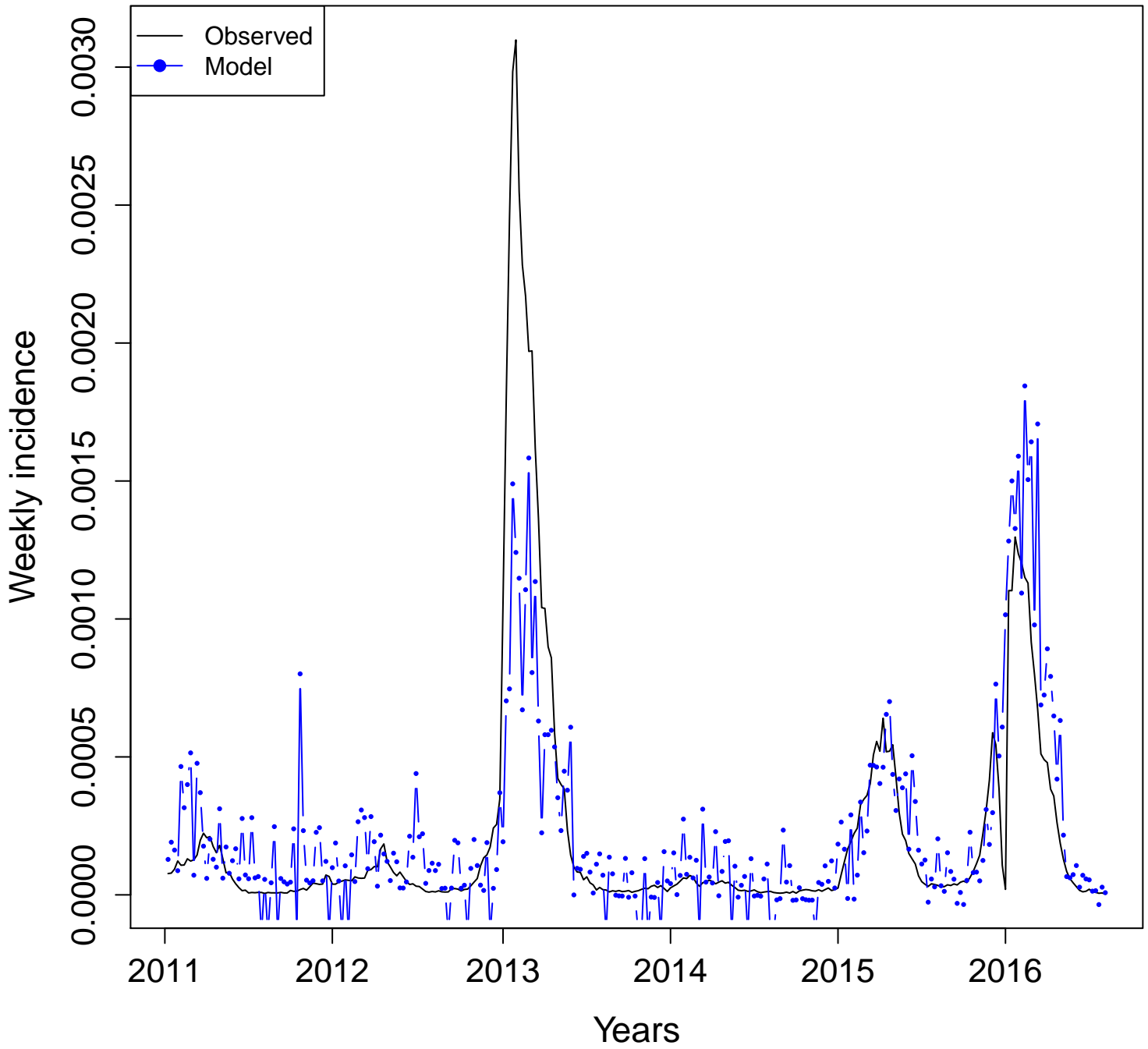


MS- mosquito

Adj. R squared = 0.2568



MS- sintomas.da.dengue
Adj. R squared = 0.5558



Mato Grosso (MT)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

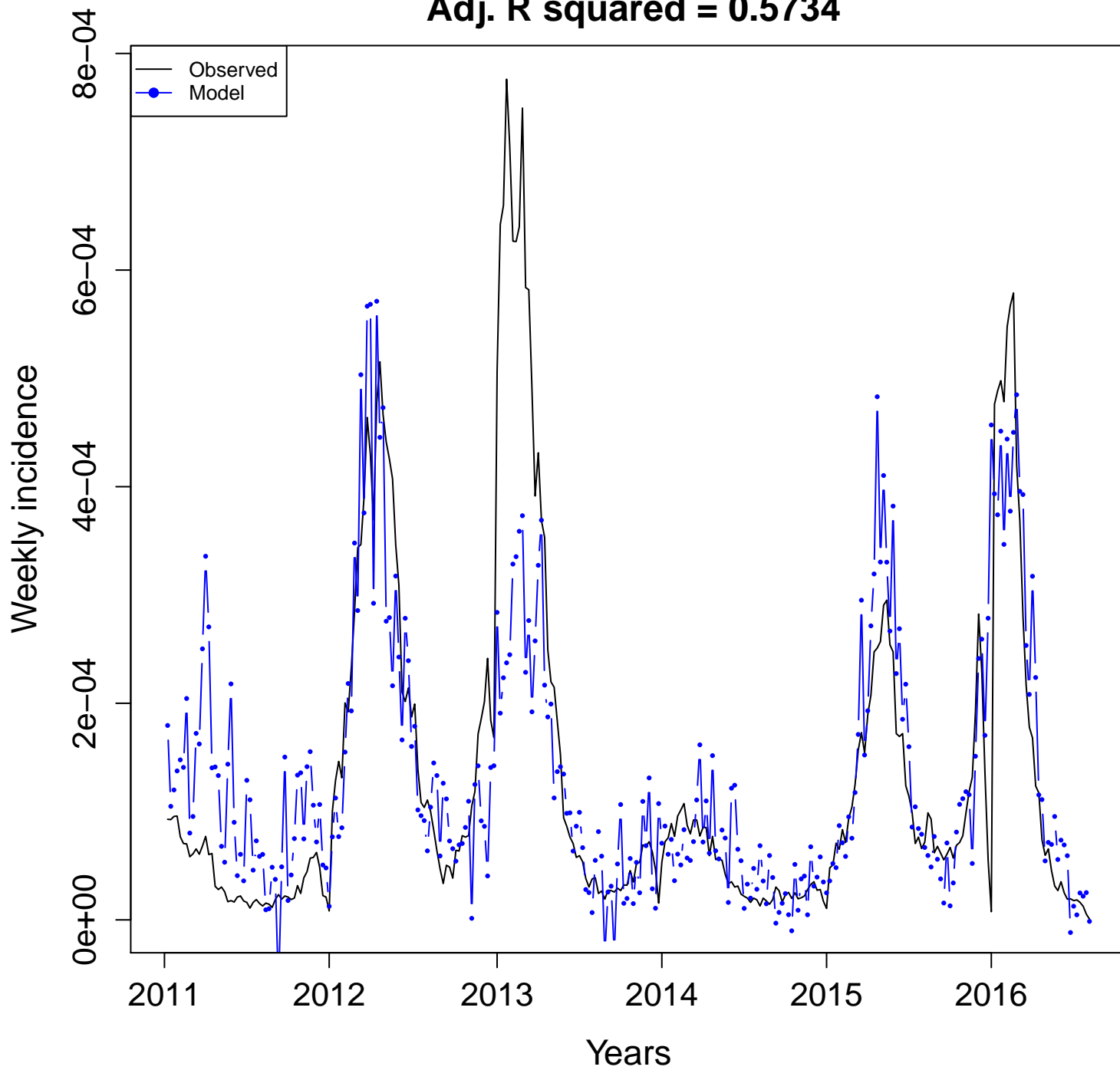
- **Combined terms:**
 - **All:** model with all the available terms. n = number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. n = number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

**Combined terms
Adjusted R squared**

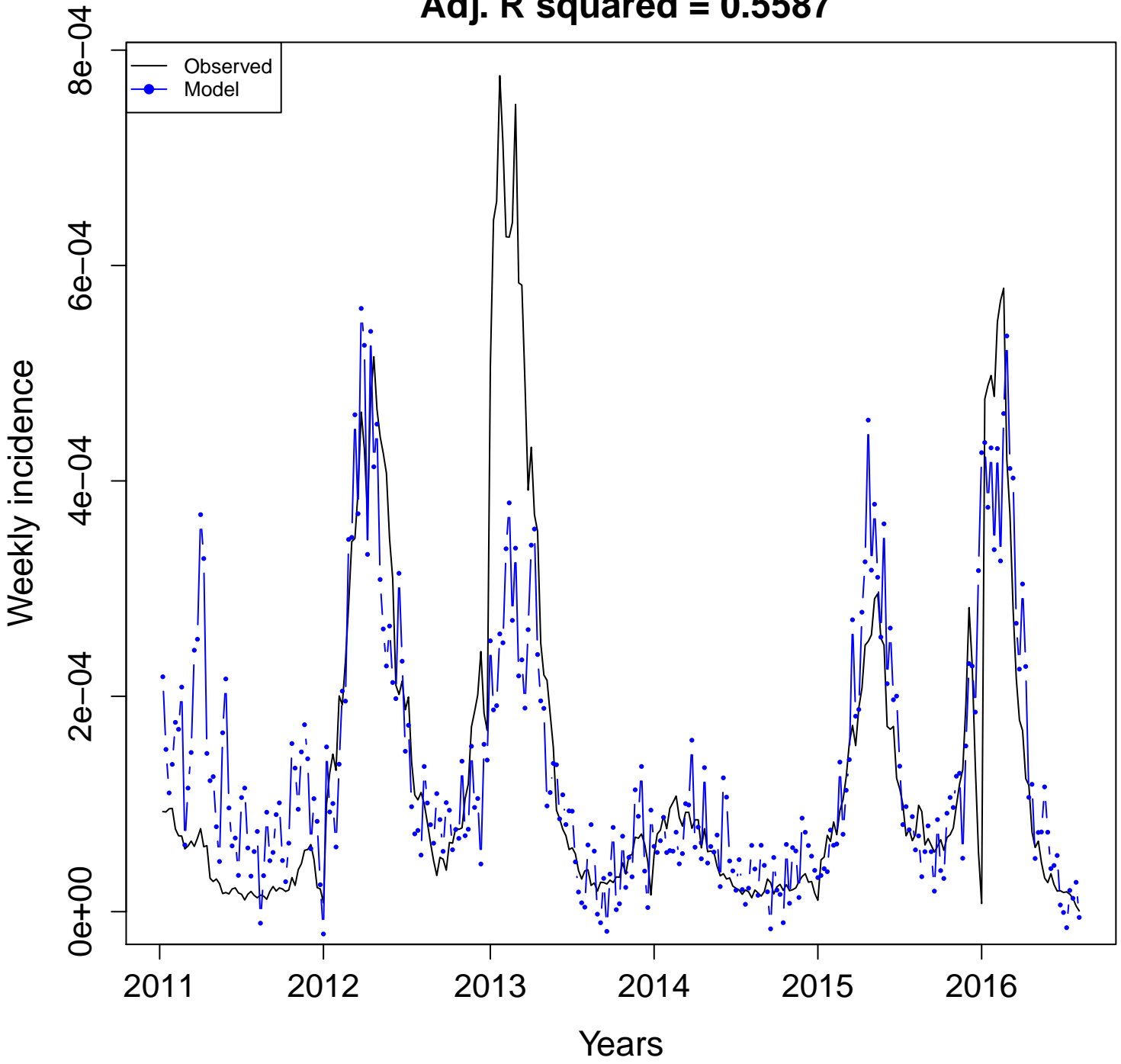
Mato Grosso (MT)

All
(n = 9)

BR-MT
Adj. R squared = 0.5734

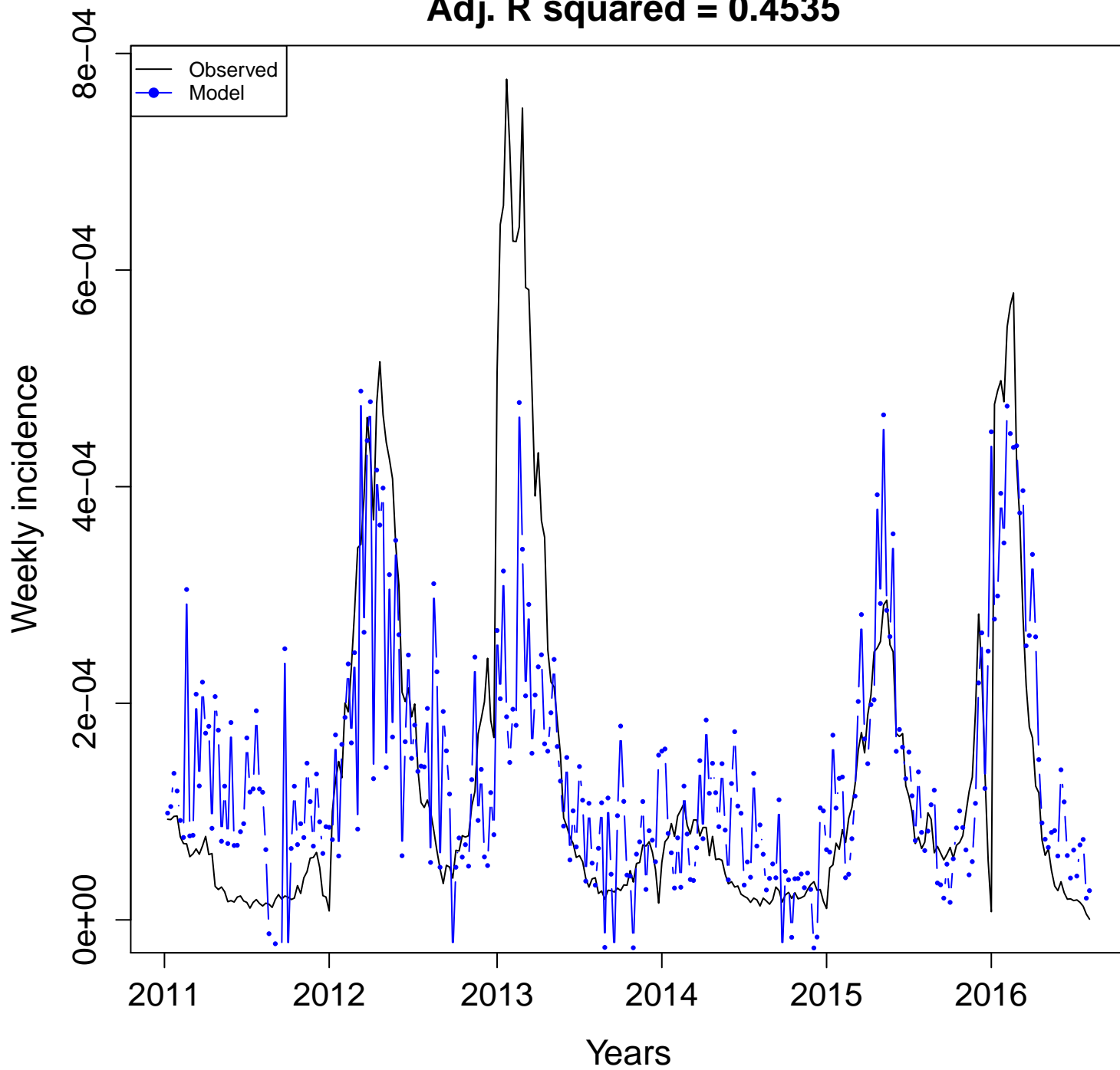


BR-MT
Adj. R squared = 0.5587



**Uncorrelated
(n = 3)**

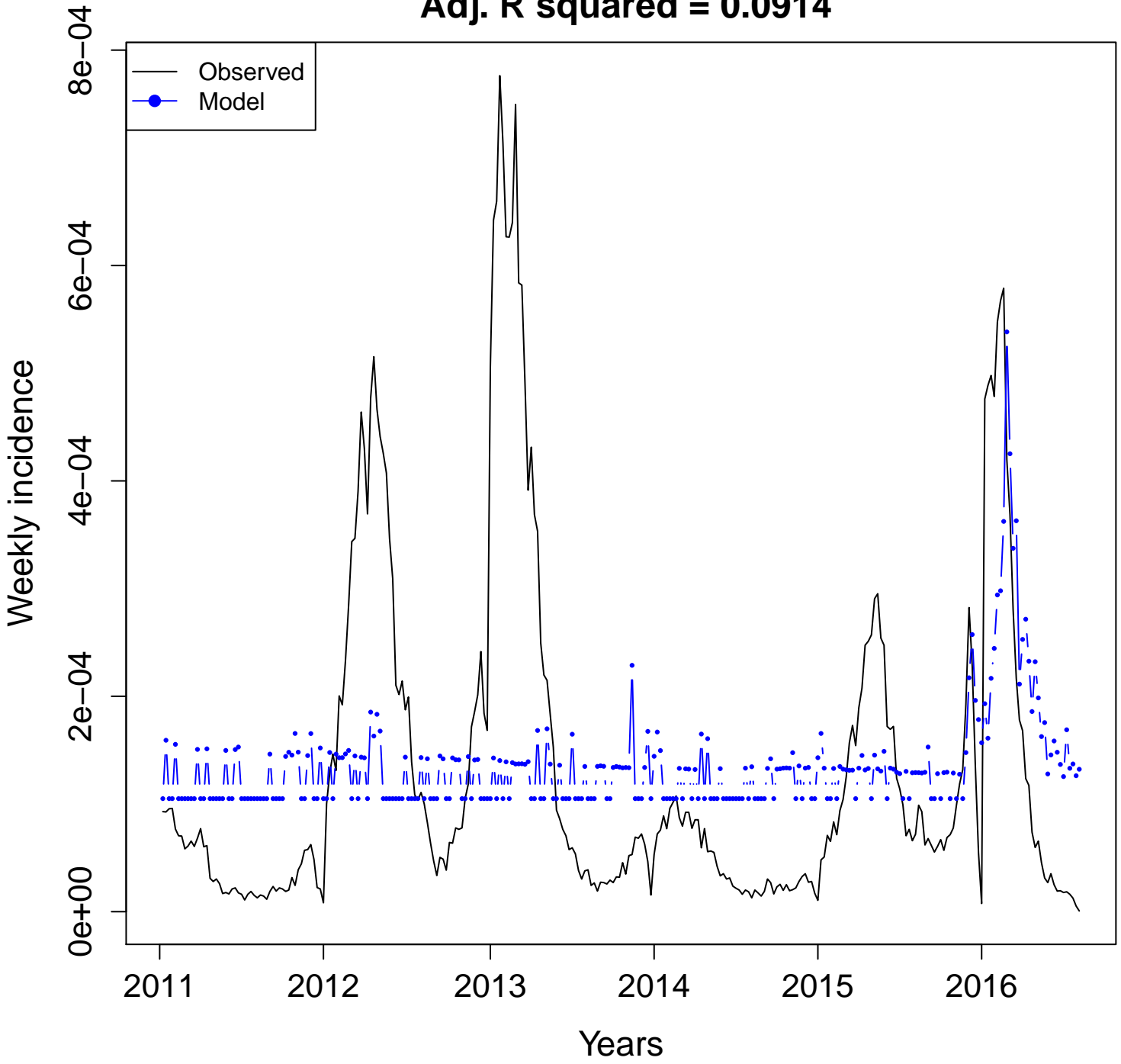
**BR-MT
Adj. R squared = 0.4535**



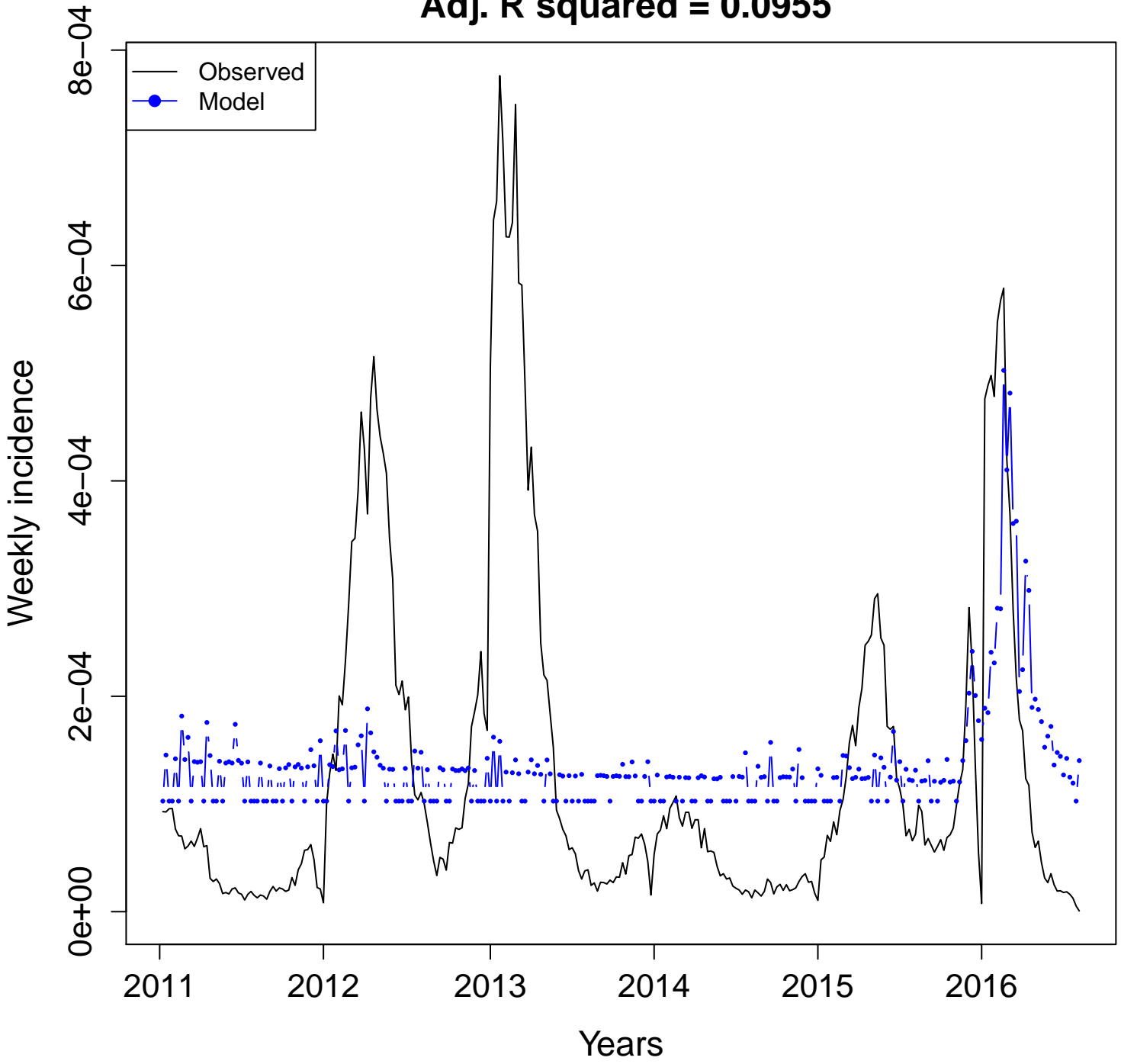
Individual terms
Adjusted R squared

Mato Grosso (MT)

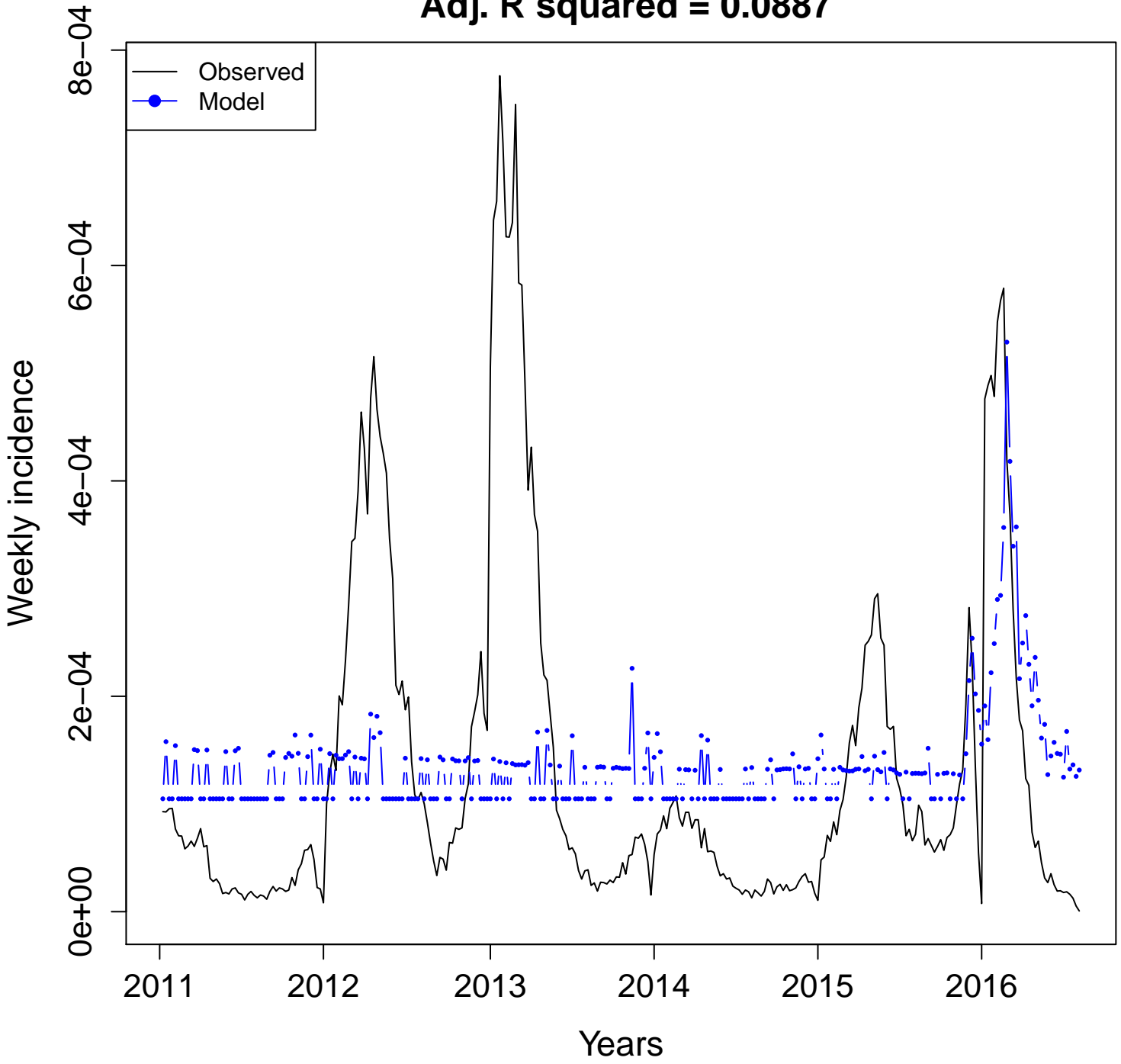
MT- aedes.aegypti
Adj. R squared = 0.0914



MT- aedes
Adj. R squared = 0.0955

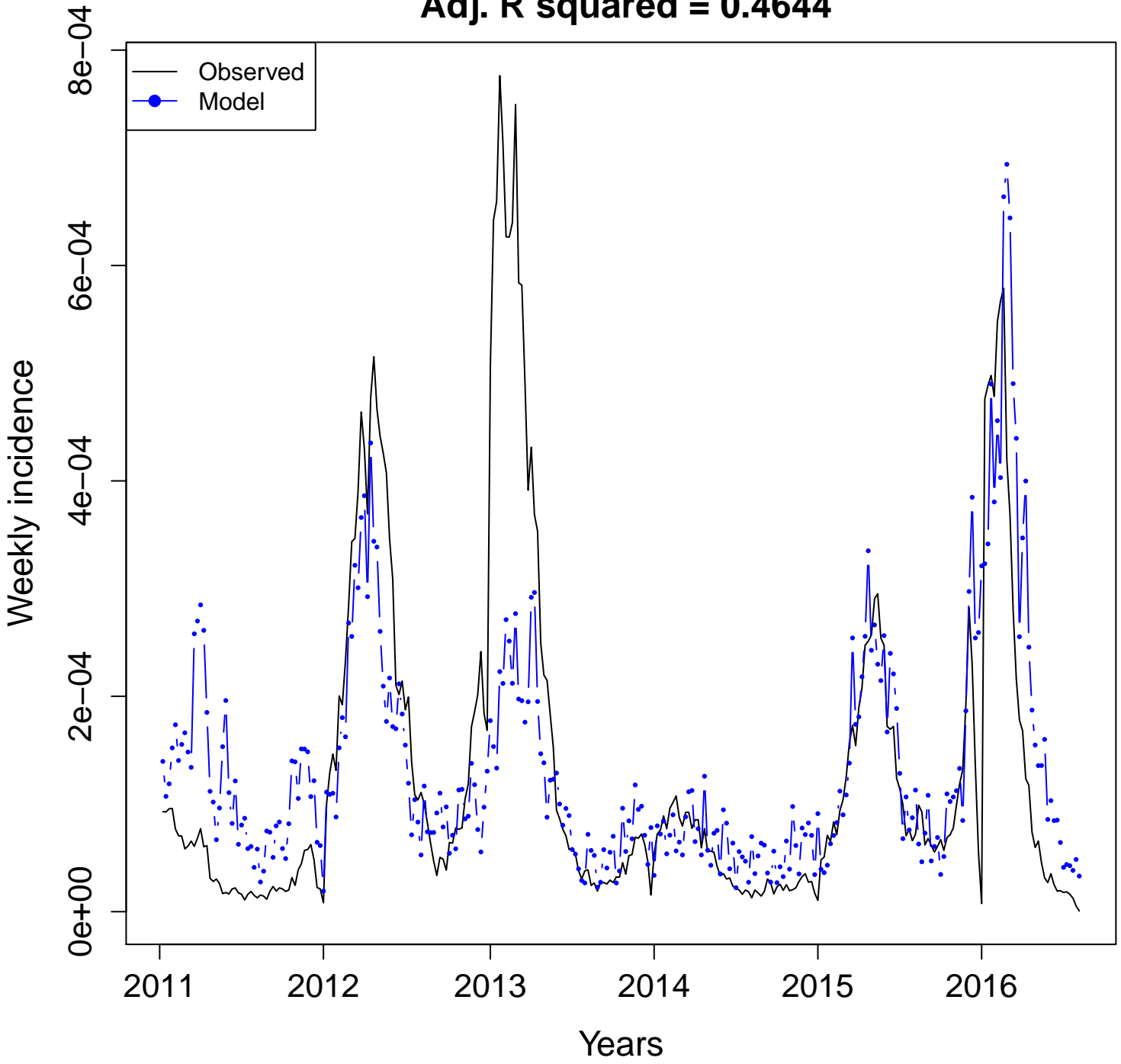


MT- aegypti
Adj. R squared = 0.0887

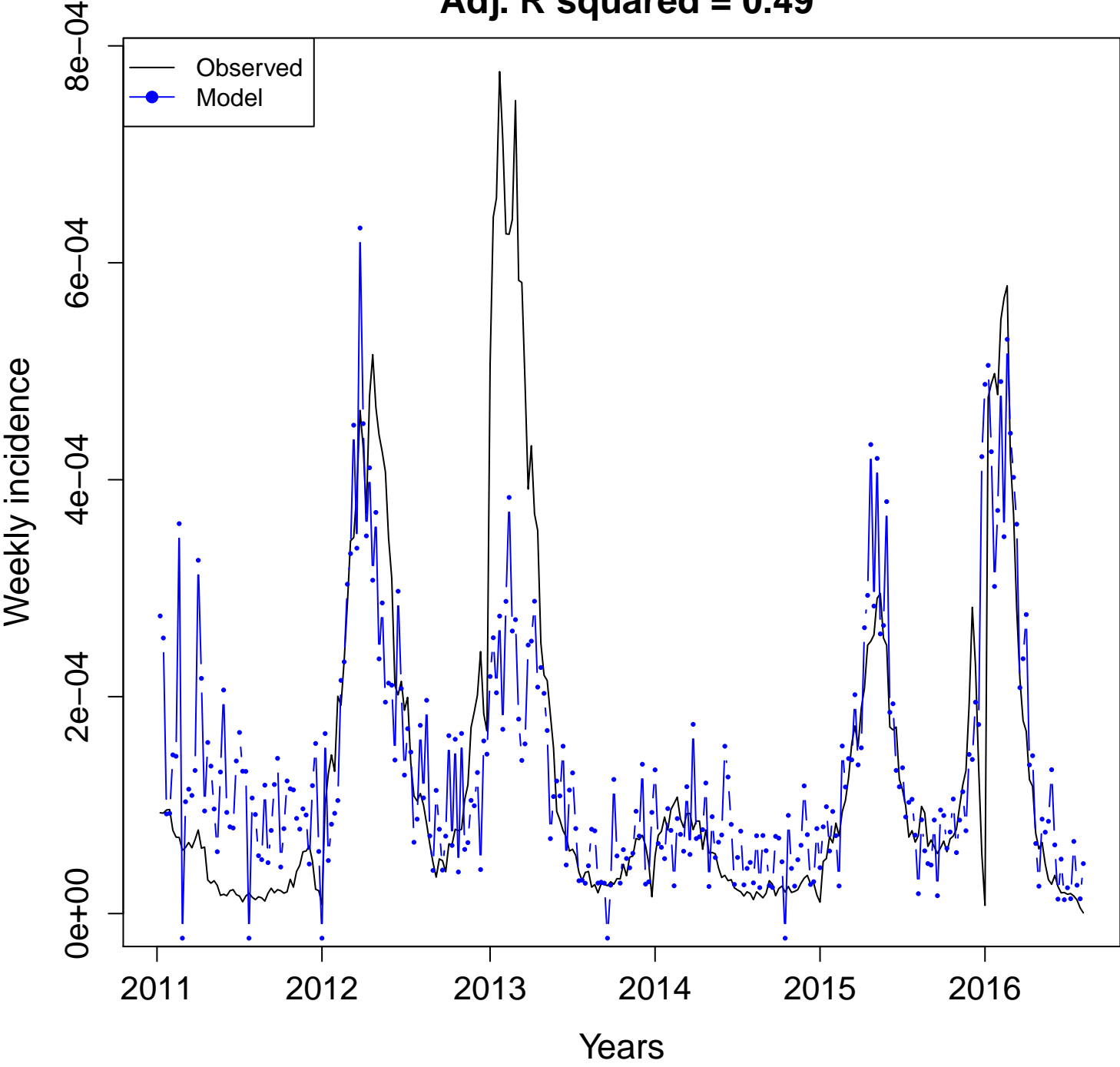


MT- dengue

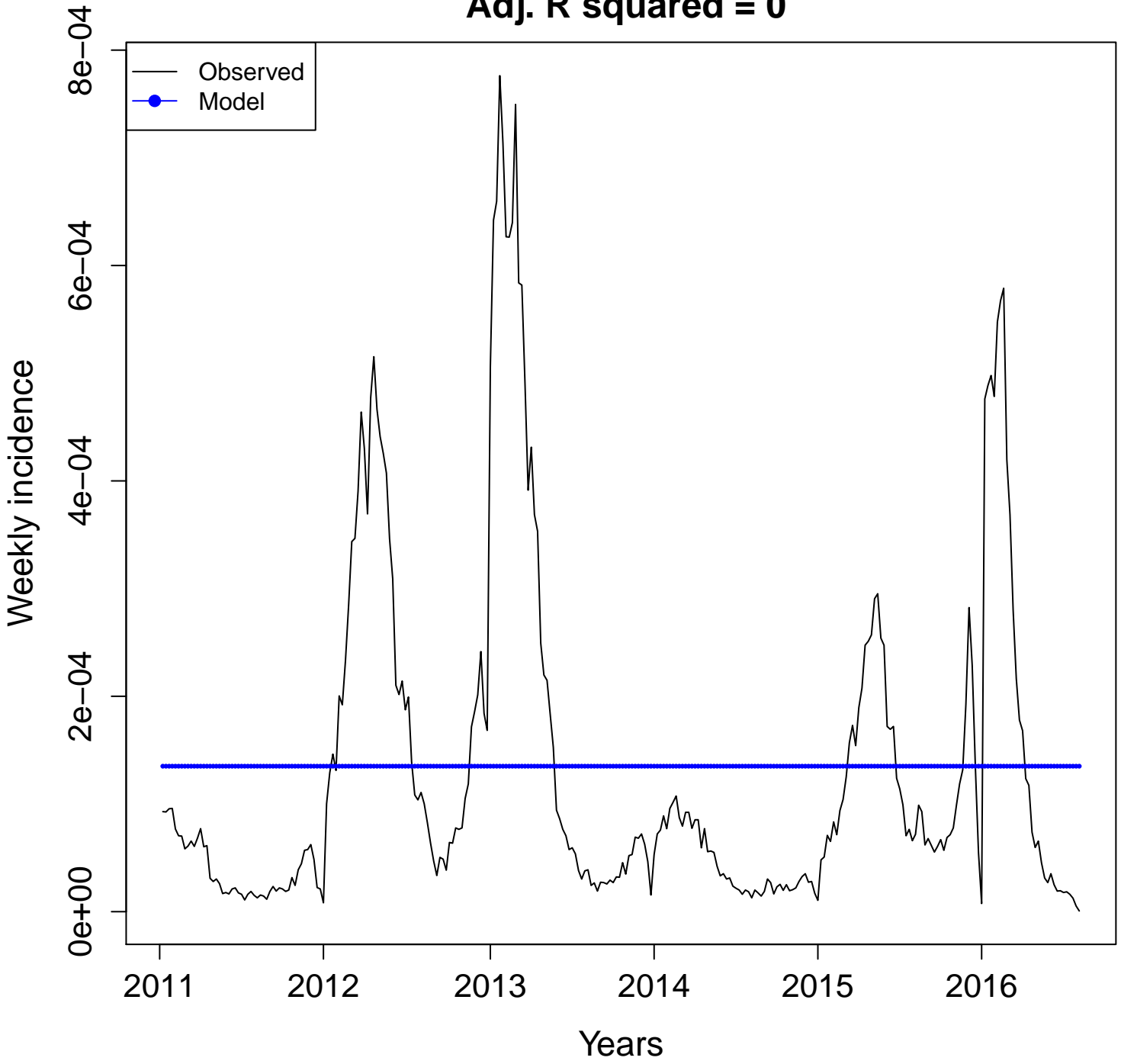
Adj. R squared = 0.4644



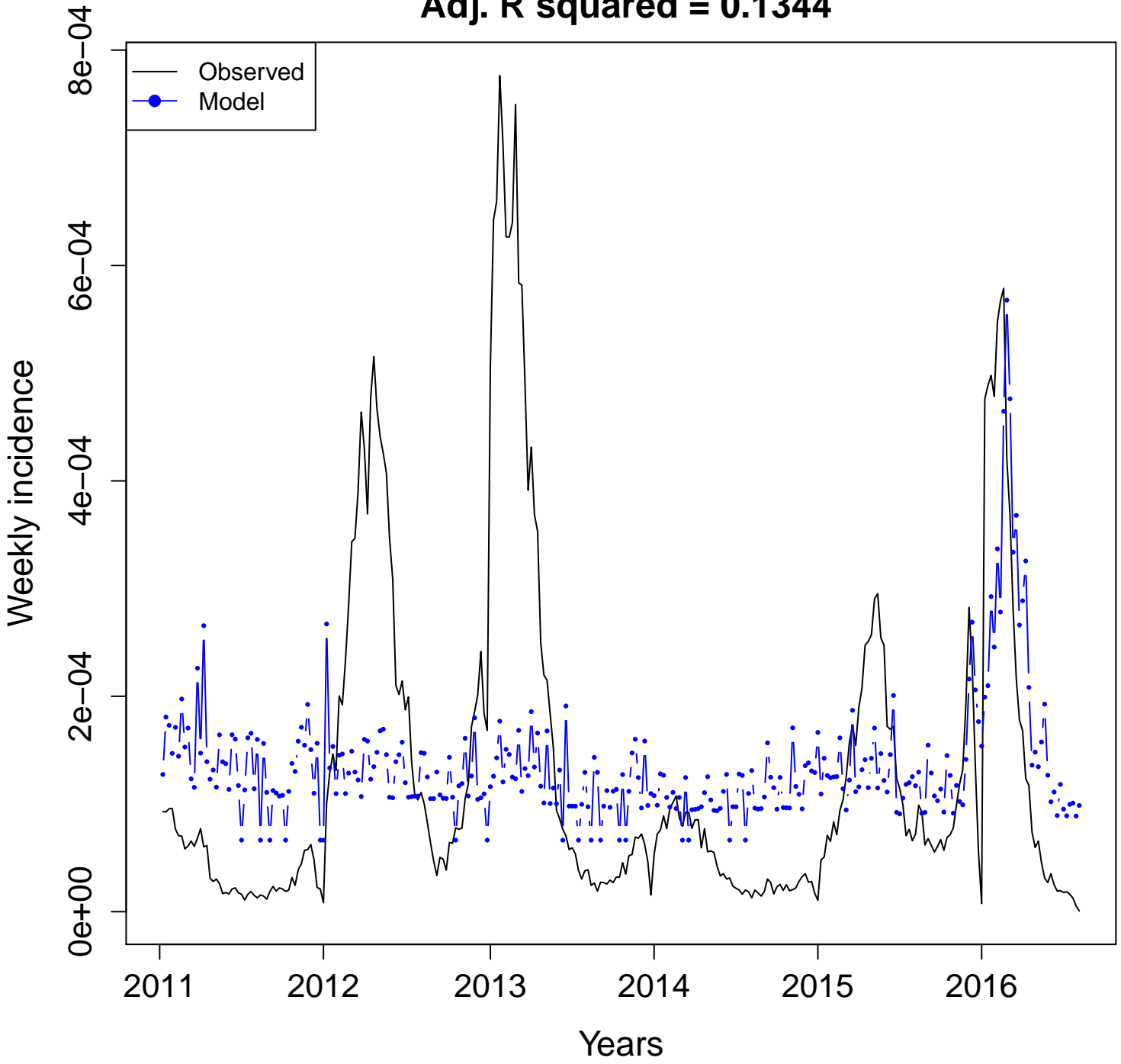
MT- dengue.sintomas
Adj. R squared = 0.49



MT- dengue.virus
Adj. R squared = 0

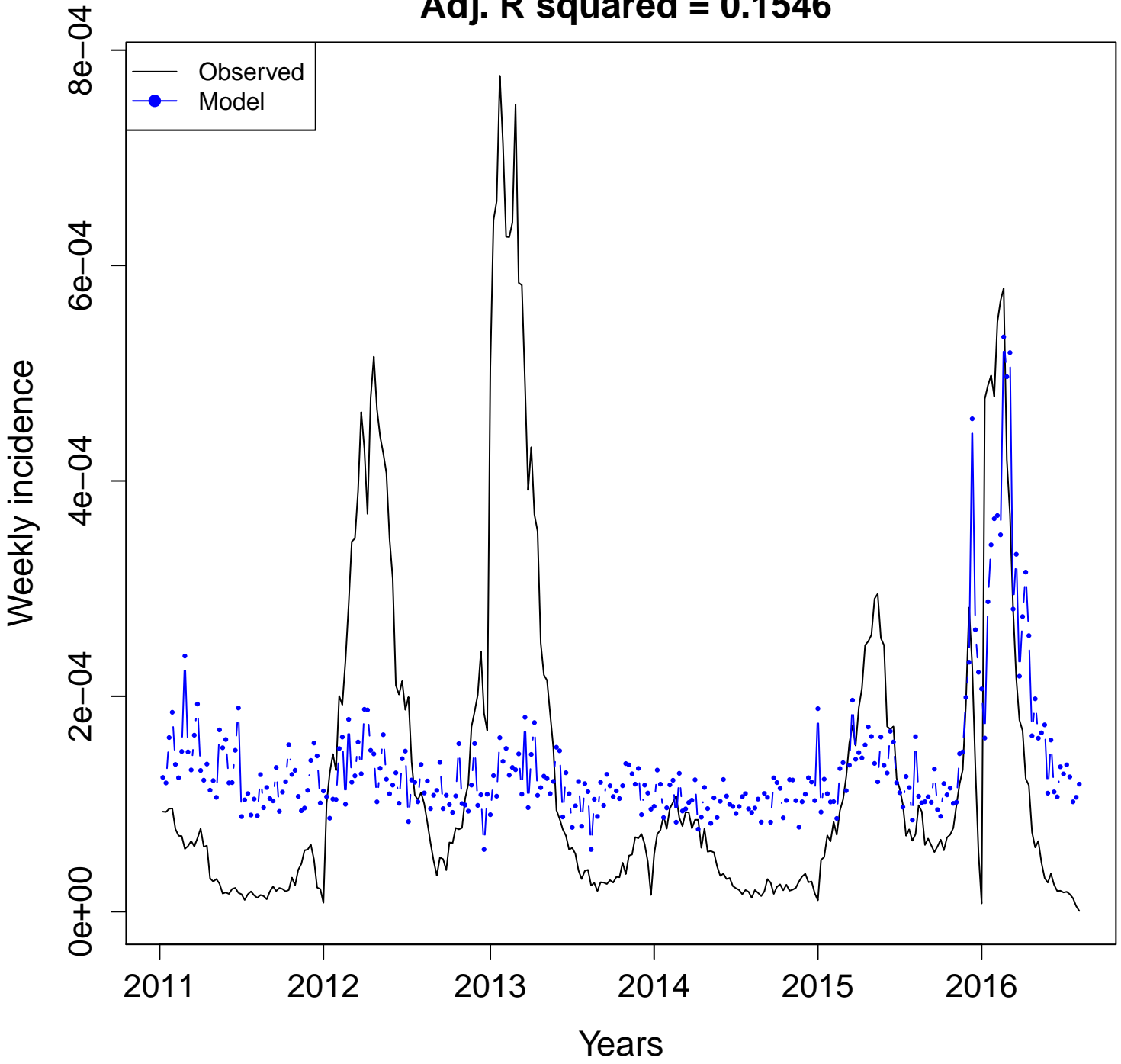


MT- mosquito.dengue
Adj. R squared = 0.1344

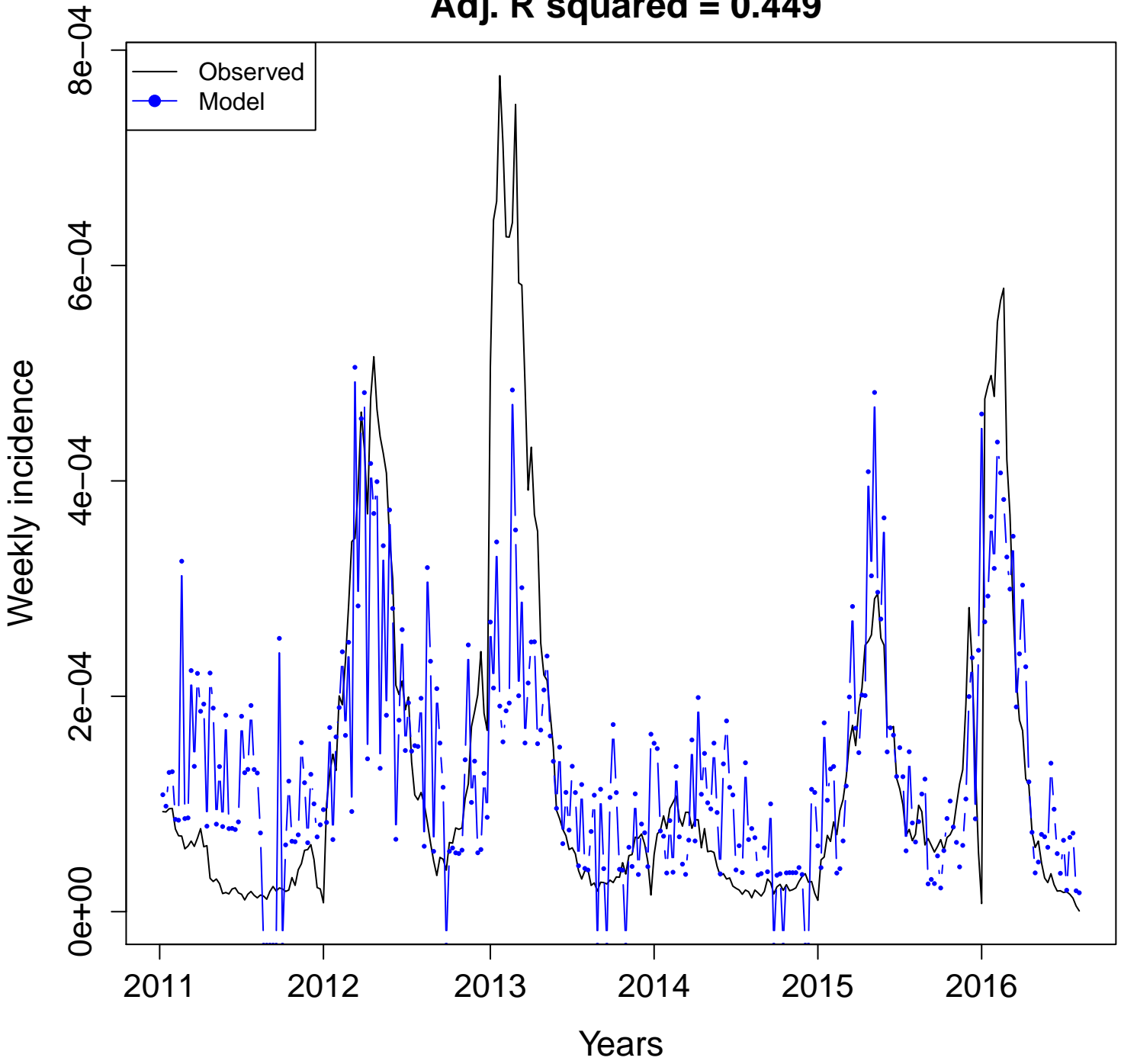


MT- mosquito

Adj. R squared = 0.1546



MT- sintomas.da.dengue
Adj. R squared = 0.449



Pará (PA)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

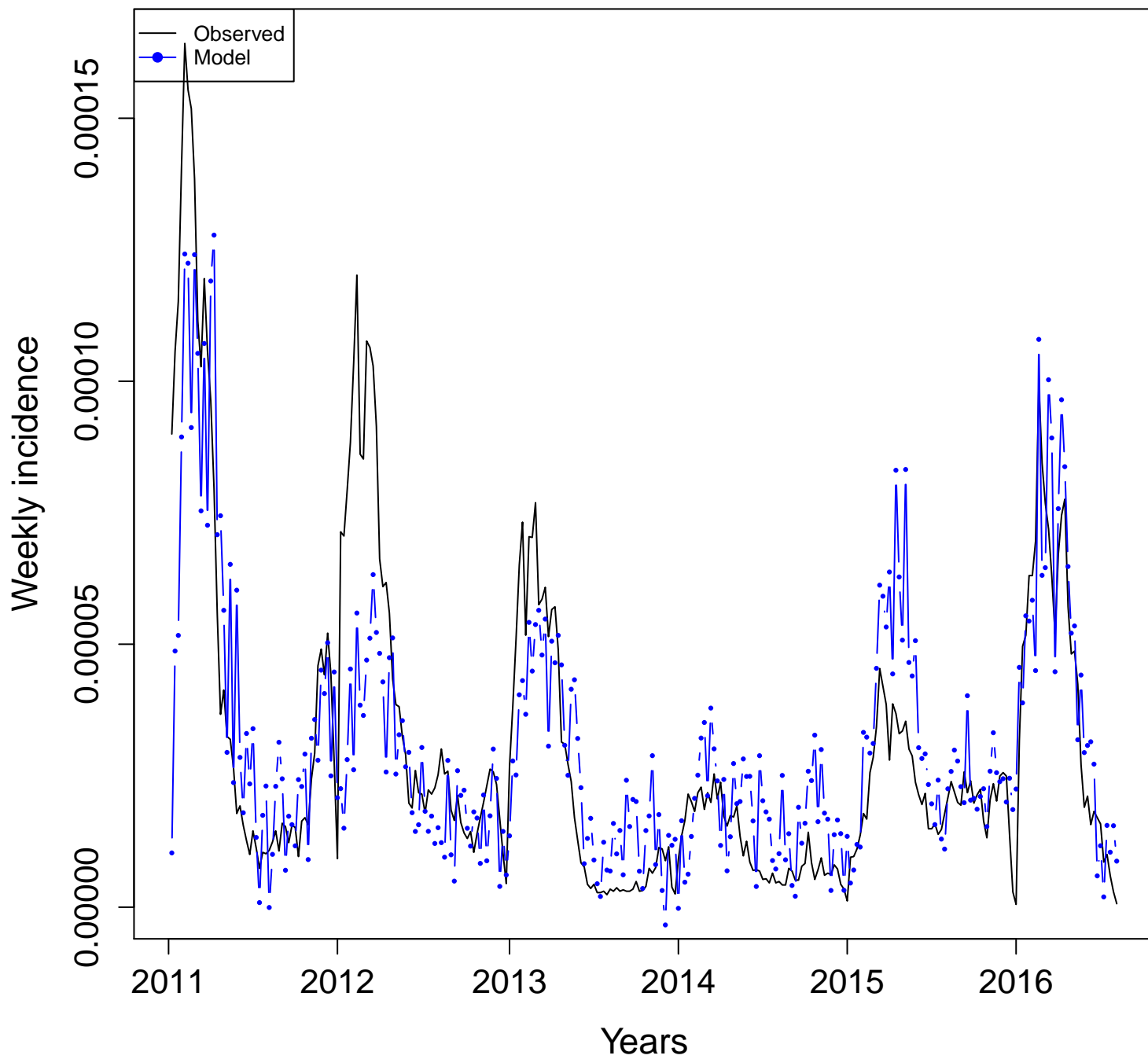
- **Combined terms:**
 - **All:** model with all the available terms. n = number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. n = number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

**Combined terms
Adjusted R squared**

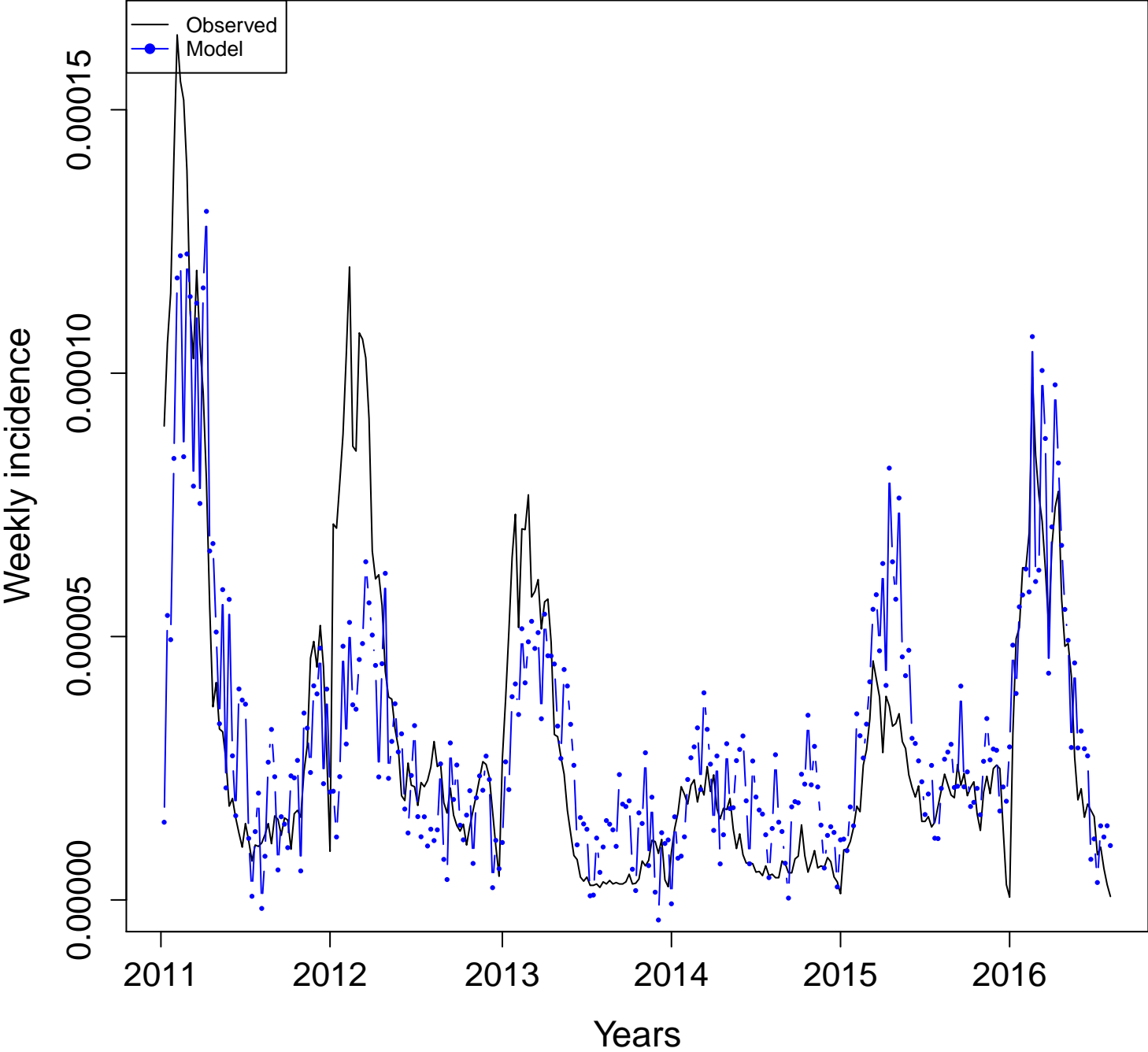
Pará (PA)

All
(n = 9)

BR-PA
Adj. R squared = 0.6004

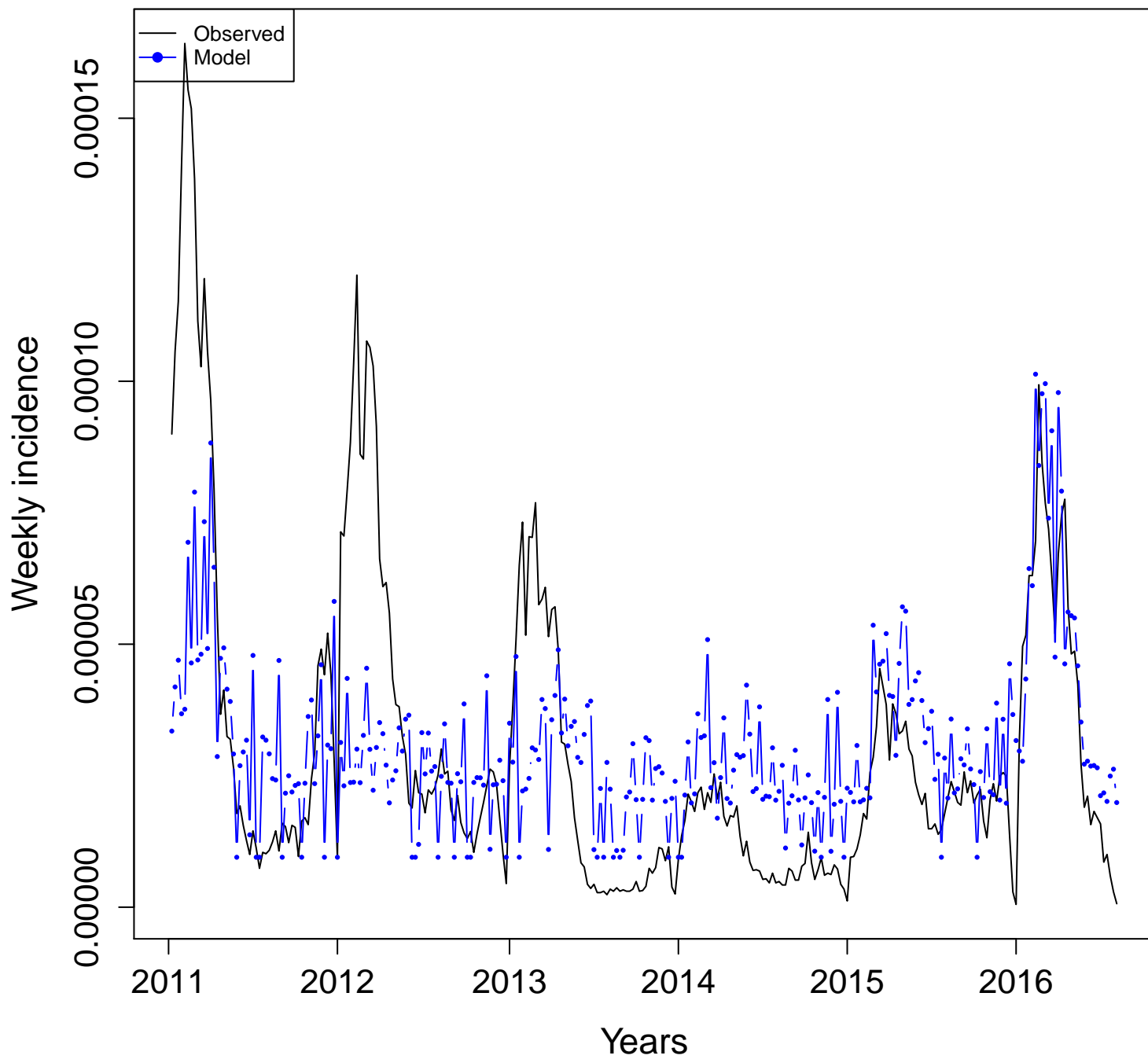


BR-PA
Adj. R squared = 0.5958



**Uncorrelated
(n = 2)**

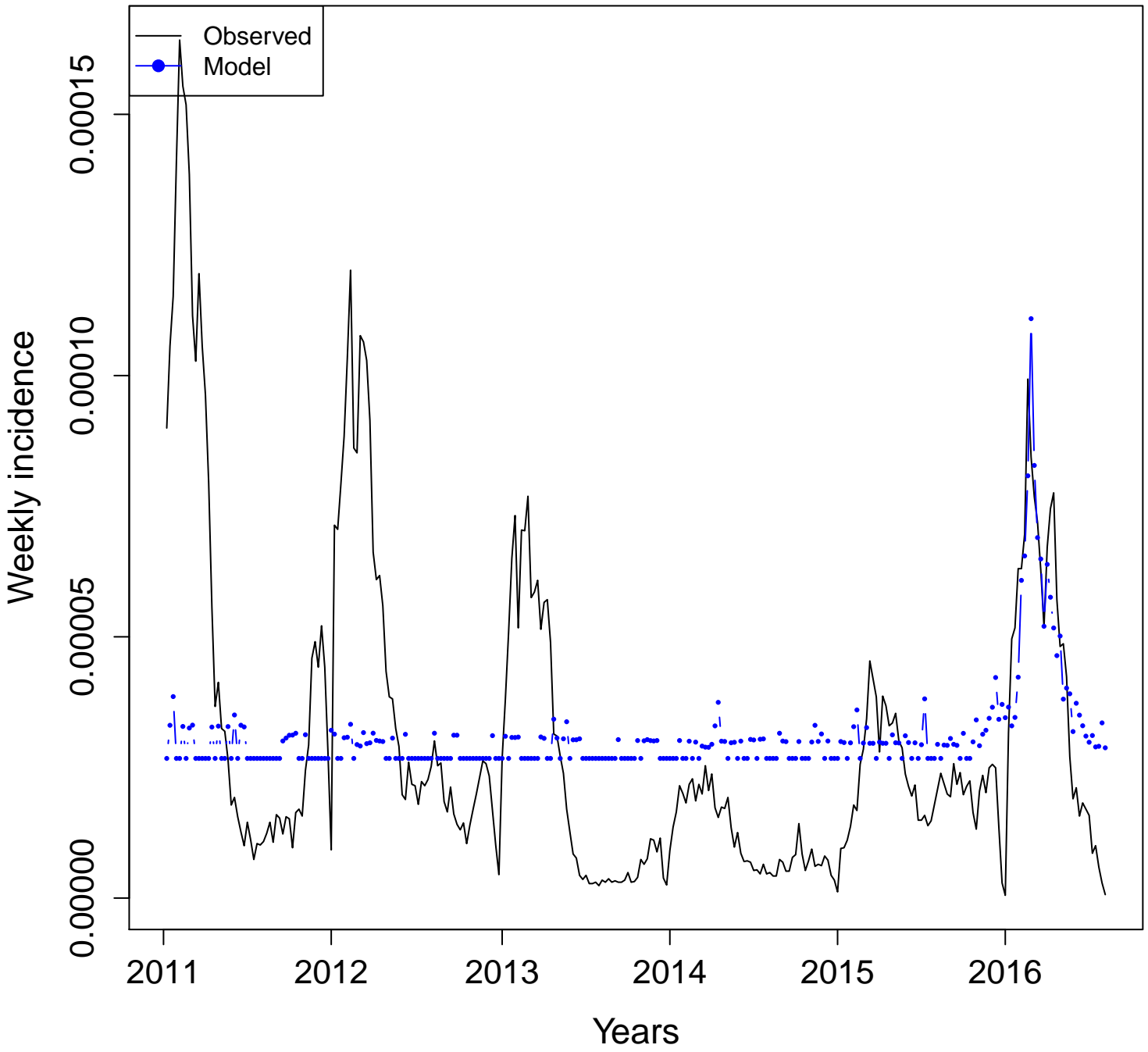
**BR-PA
Adj. R squared = 0.2768**



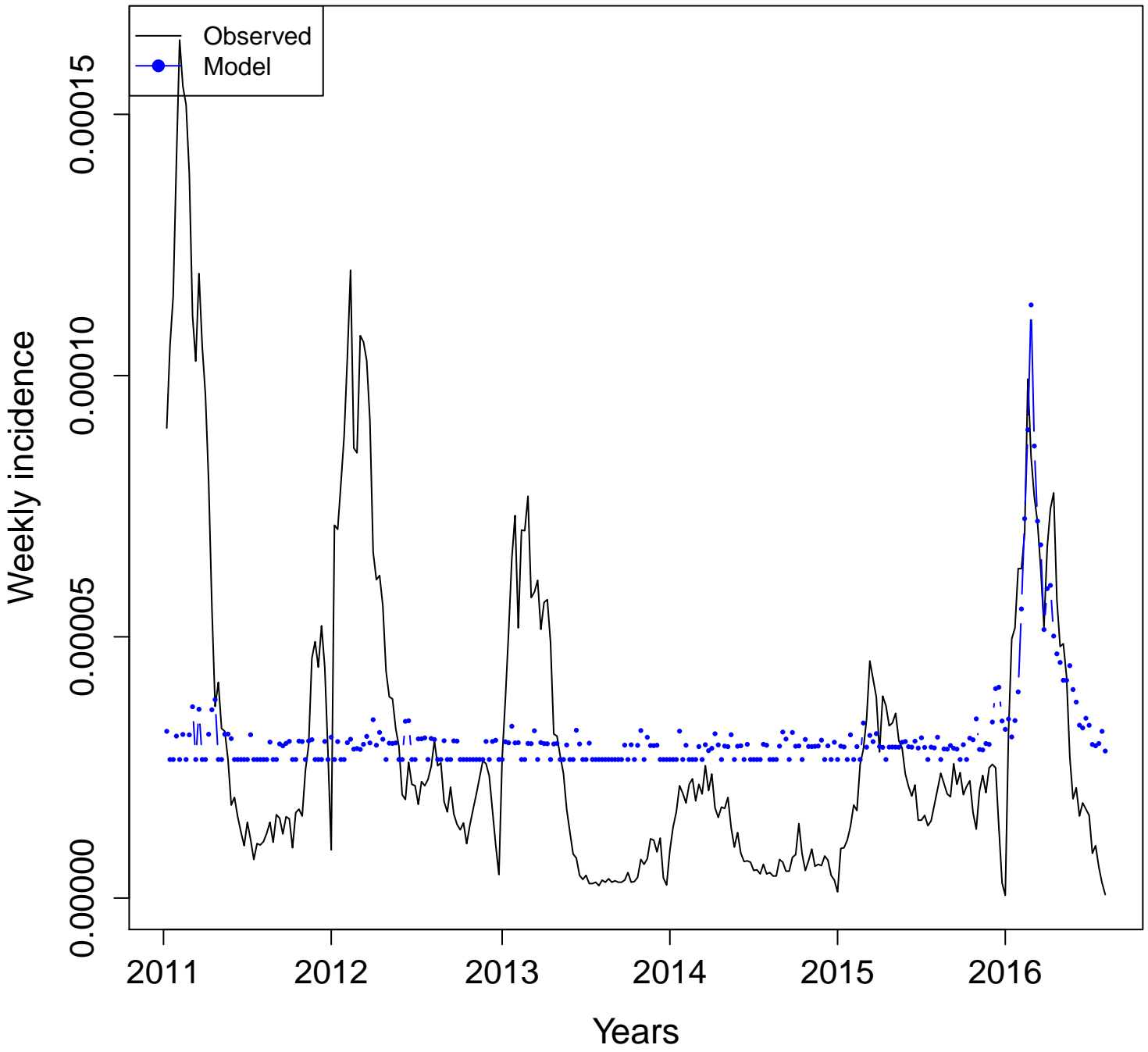
Individual terms
Adjusted R squared

Pará (PA)

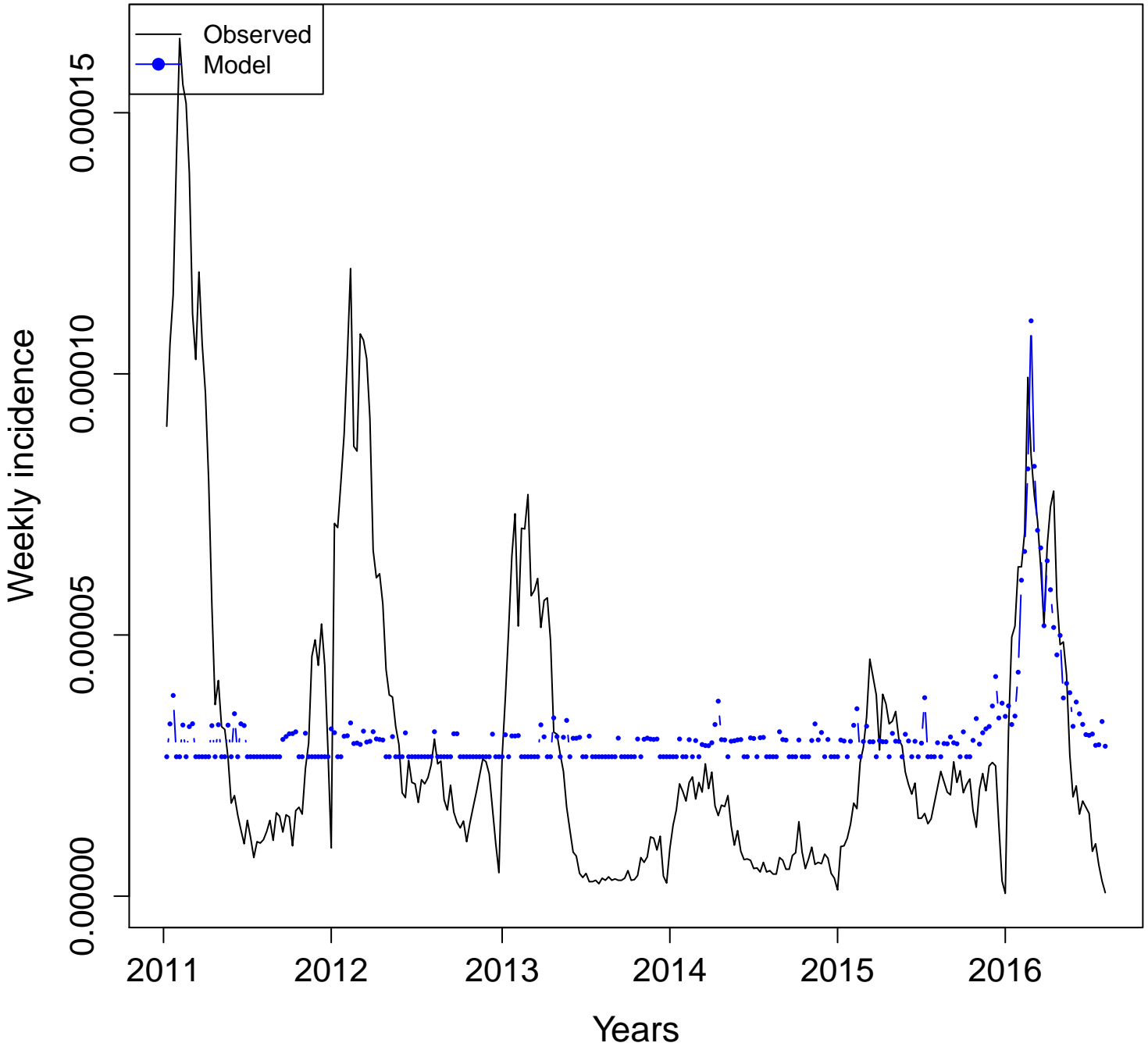
PA- aedes.aegypti
Adj. R squared = 0.079



PA- aedes
Adj. R squared = 0.0862

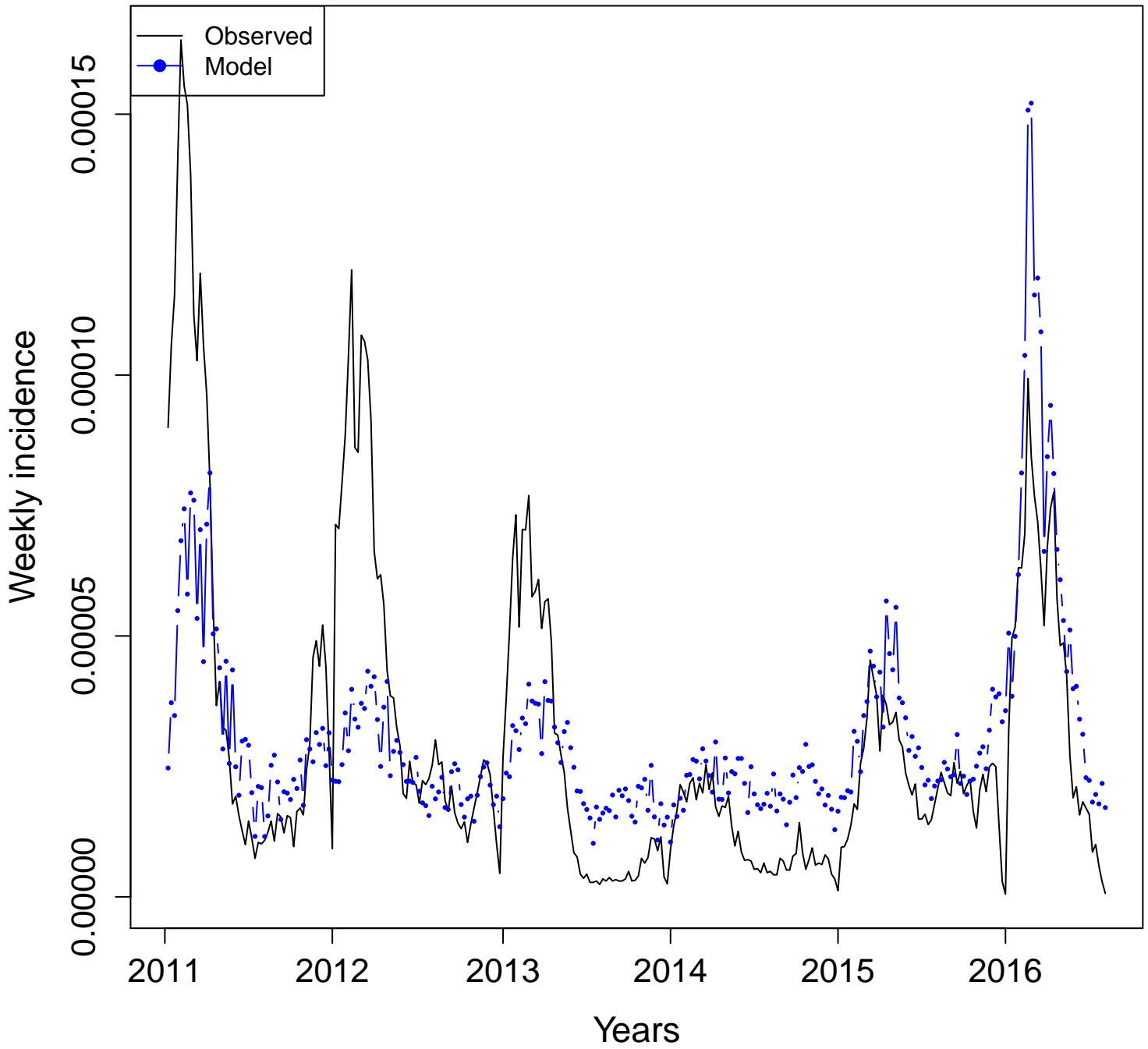


PA- aegypti
Adj. R squared = 0.0797

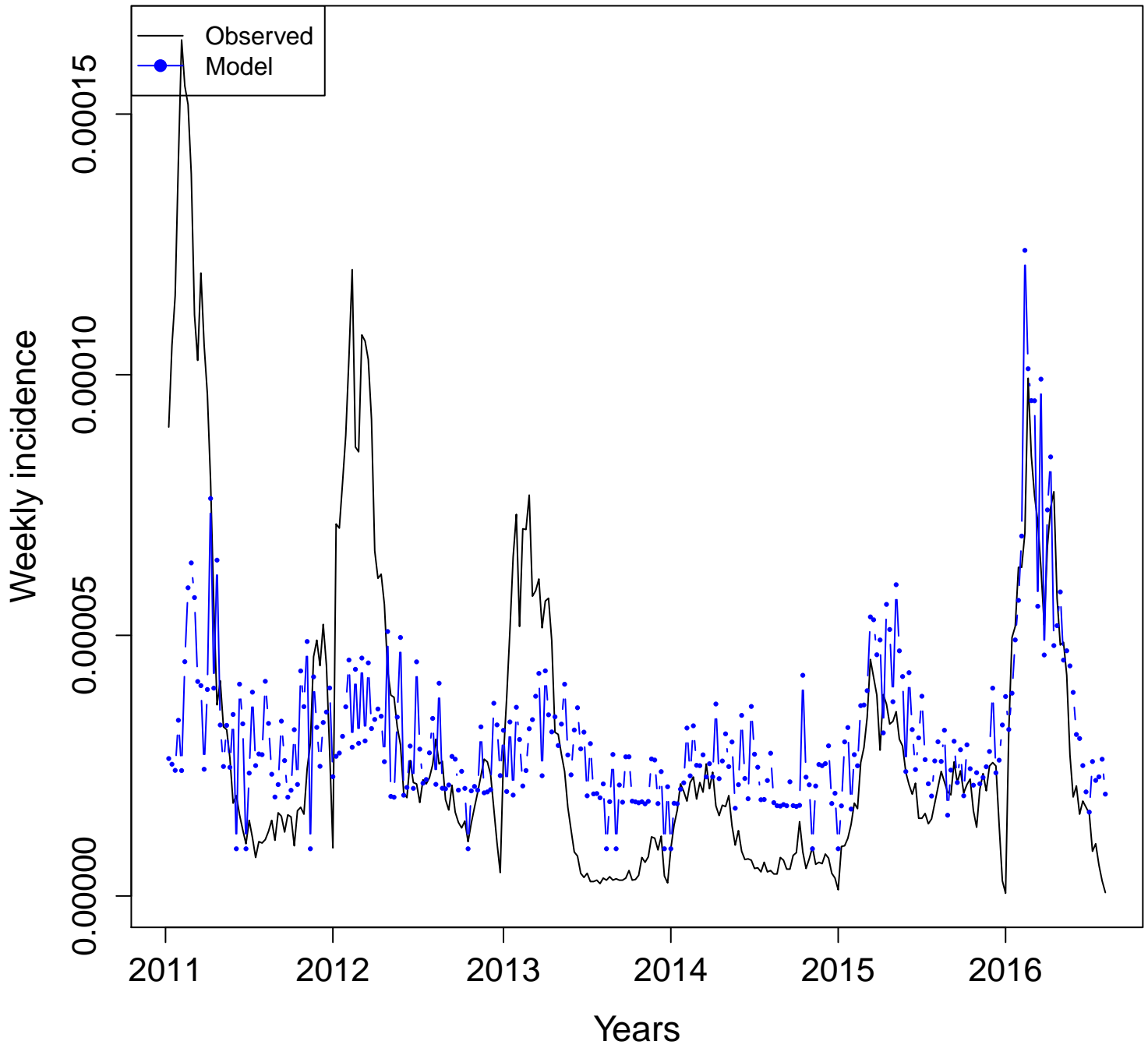


PA- dengue

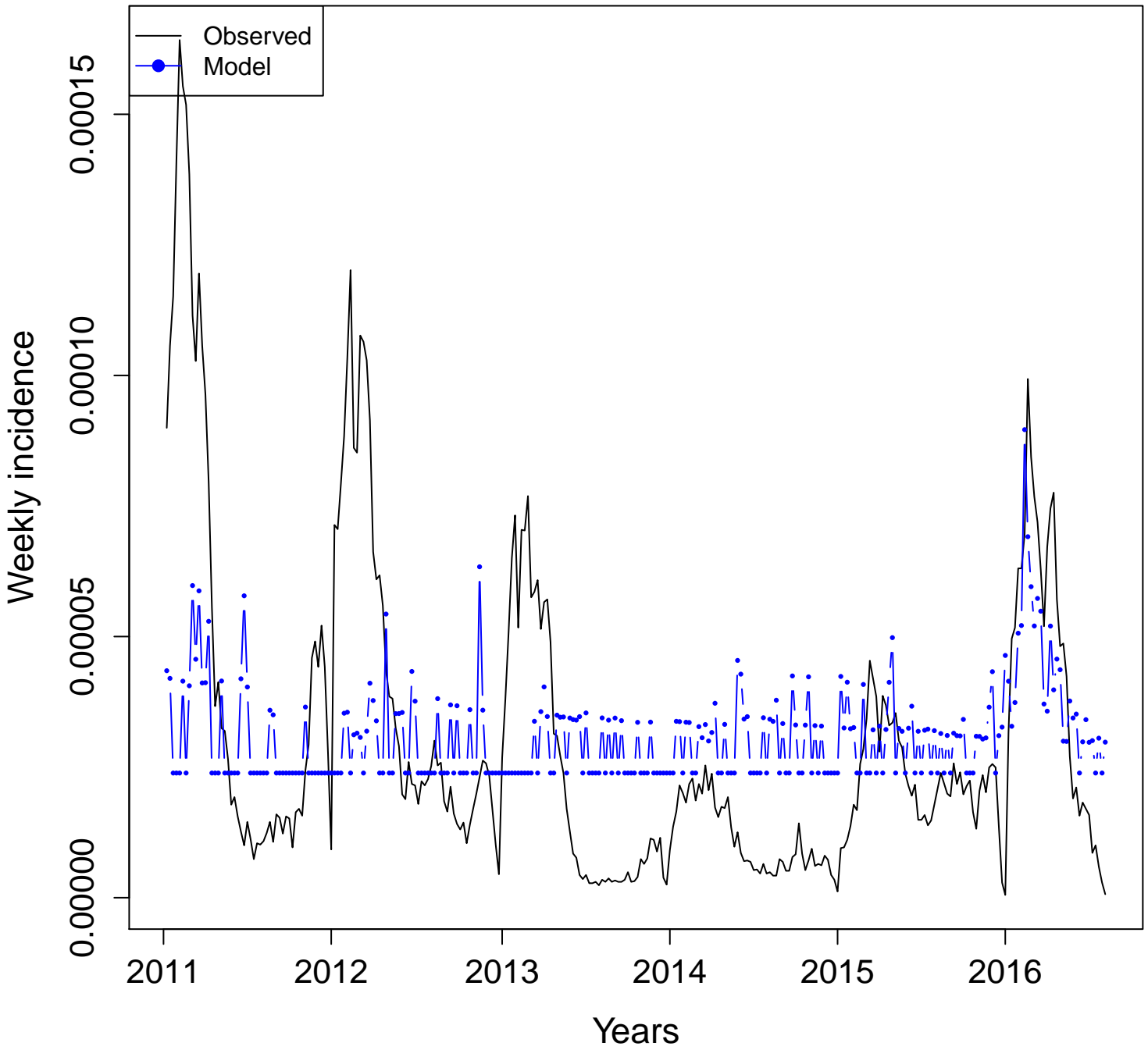
Adj. R squared = 0.4105



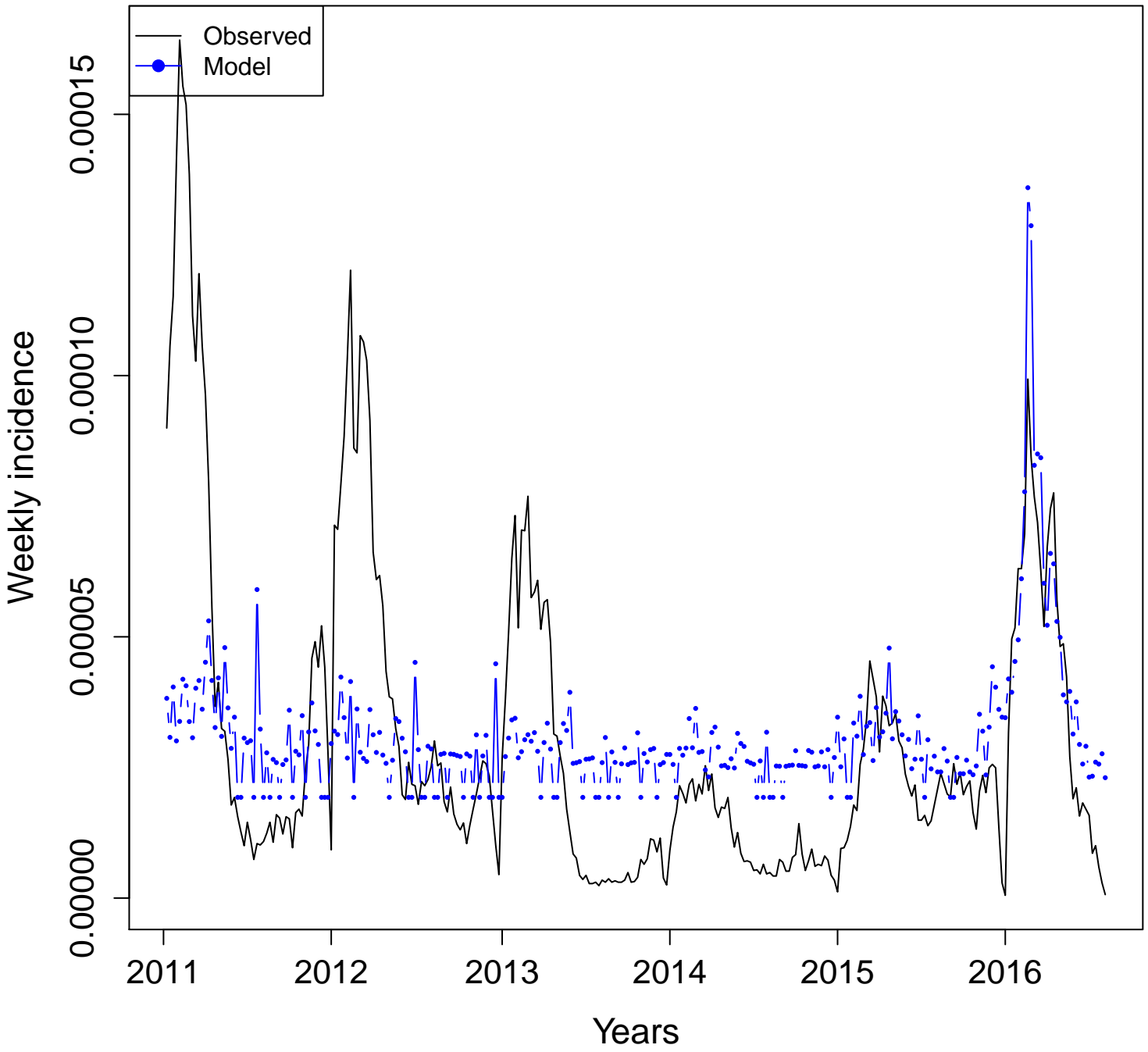
PA- dengue.sintomas
Adj. R squared = 0.2432



PA- dengue.virus
Adj. R squared = 0.0881

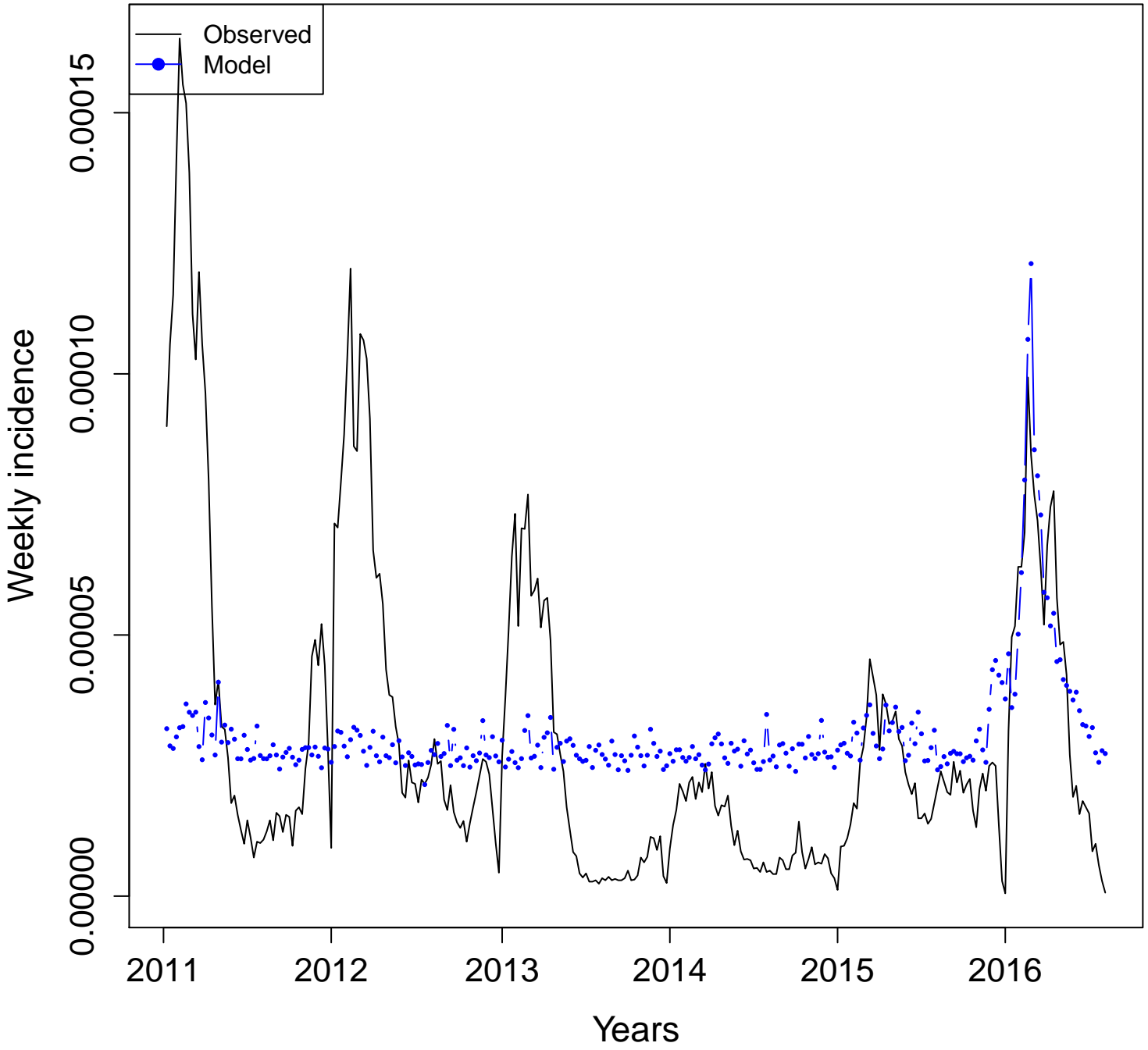


PA- mosquito.dengue
Adj. R squared = 0.1801

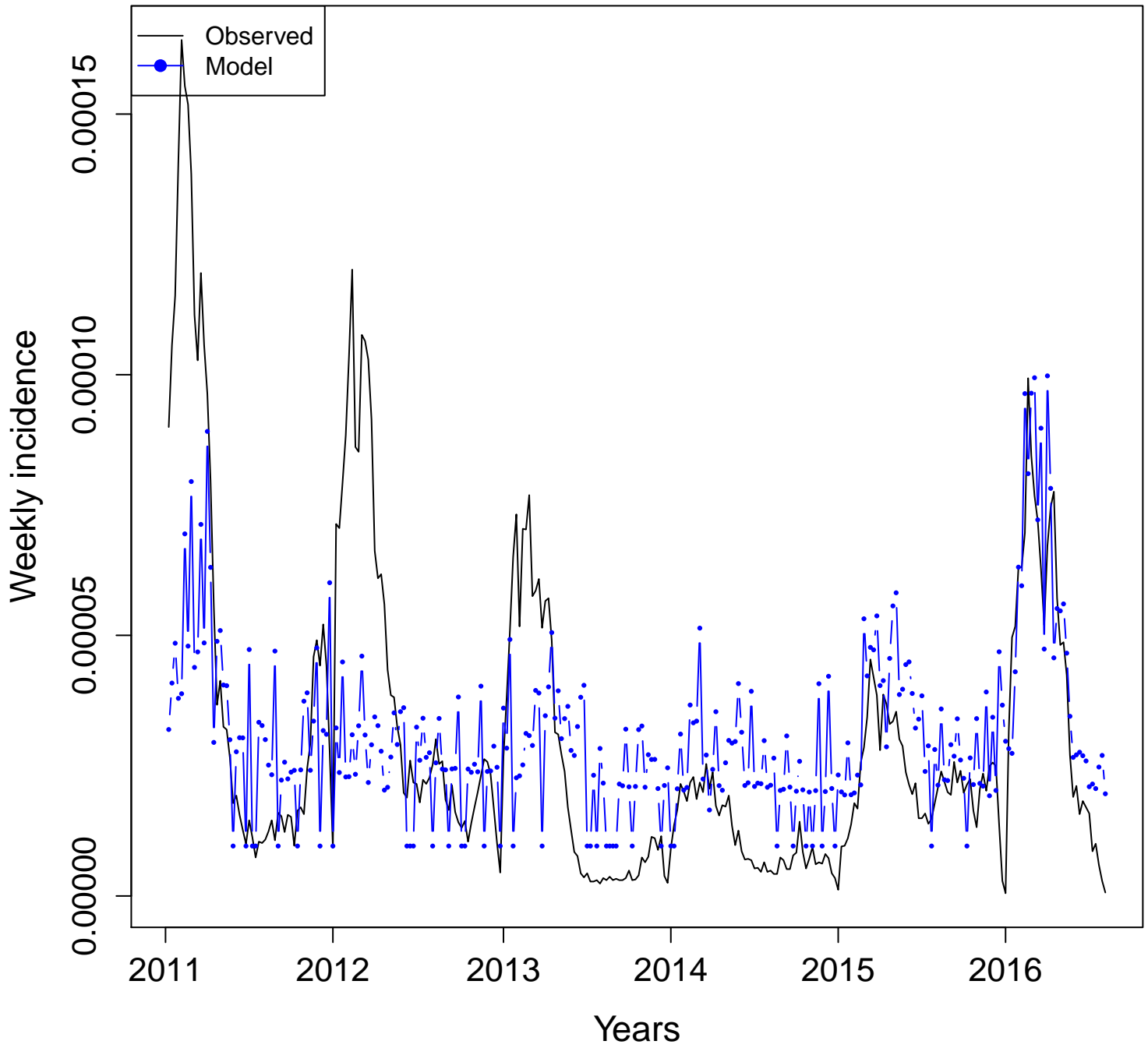


PA- mosquito

Adj. R squared = 0.1152



PA- sintomas.da.dengue
Adj. R squared = 0.2782



Paraiba (PB)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

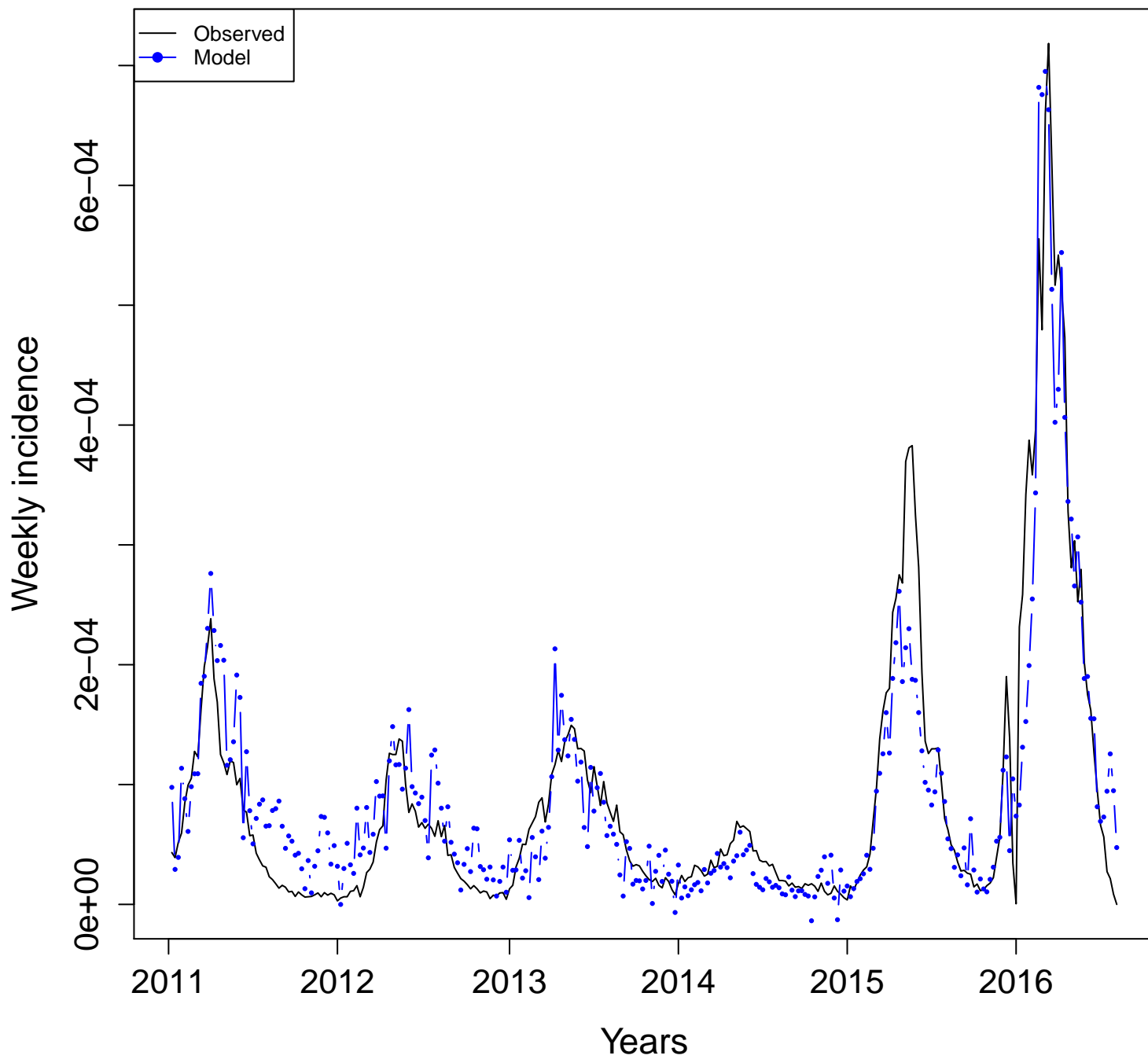
- **Combined terms:**
 - **All:** model with all the available terms. n = number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. n = number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

**Combined terms
Adjusted R squared**

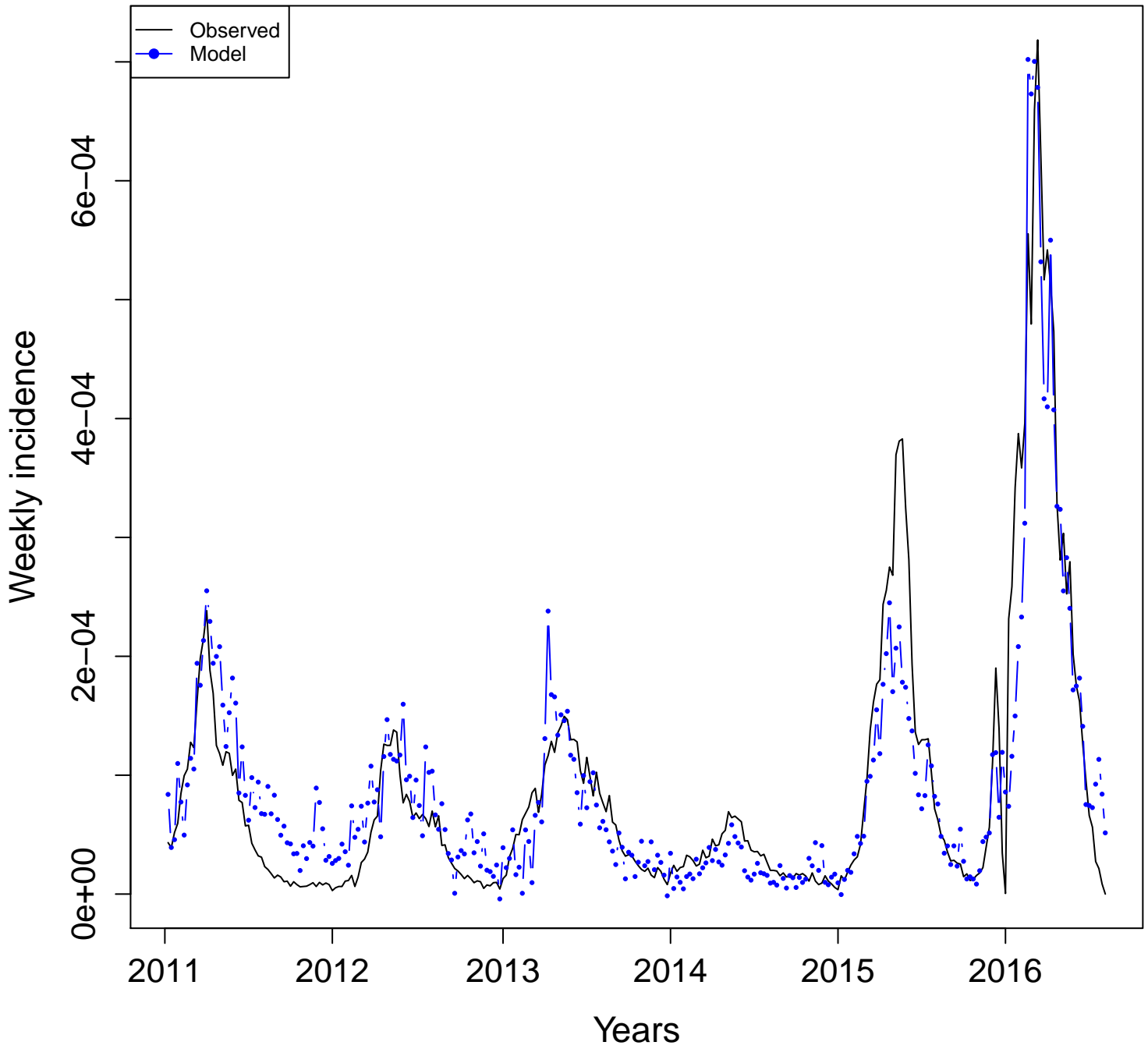
Paraiba (PB)

All
(n = 10)

BR-PB
Adj. R squared = 0.8372

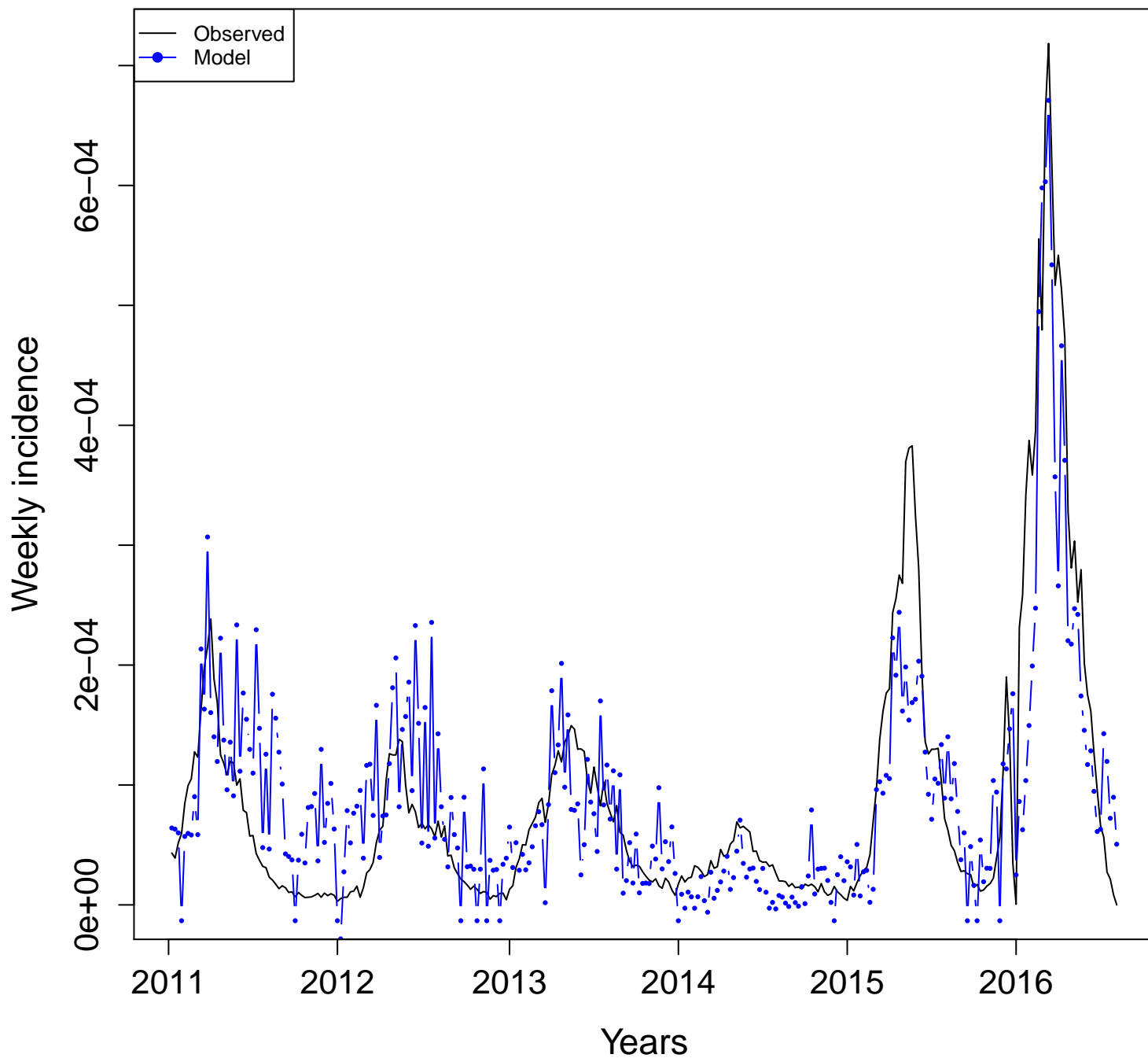


BR-PB
Adj. R squared = 0.832



**Uncorrelated
(n = 3)**

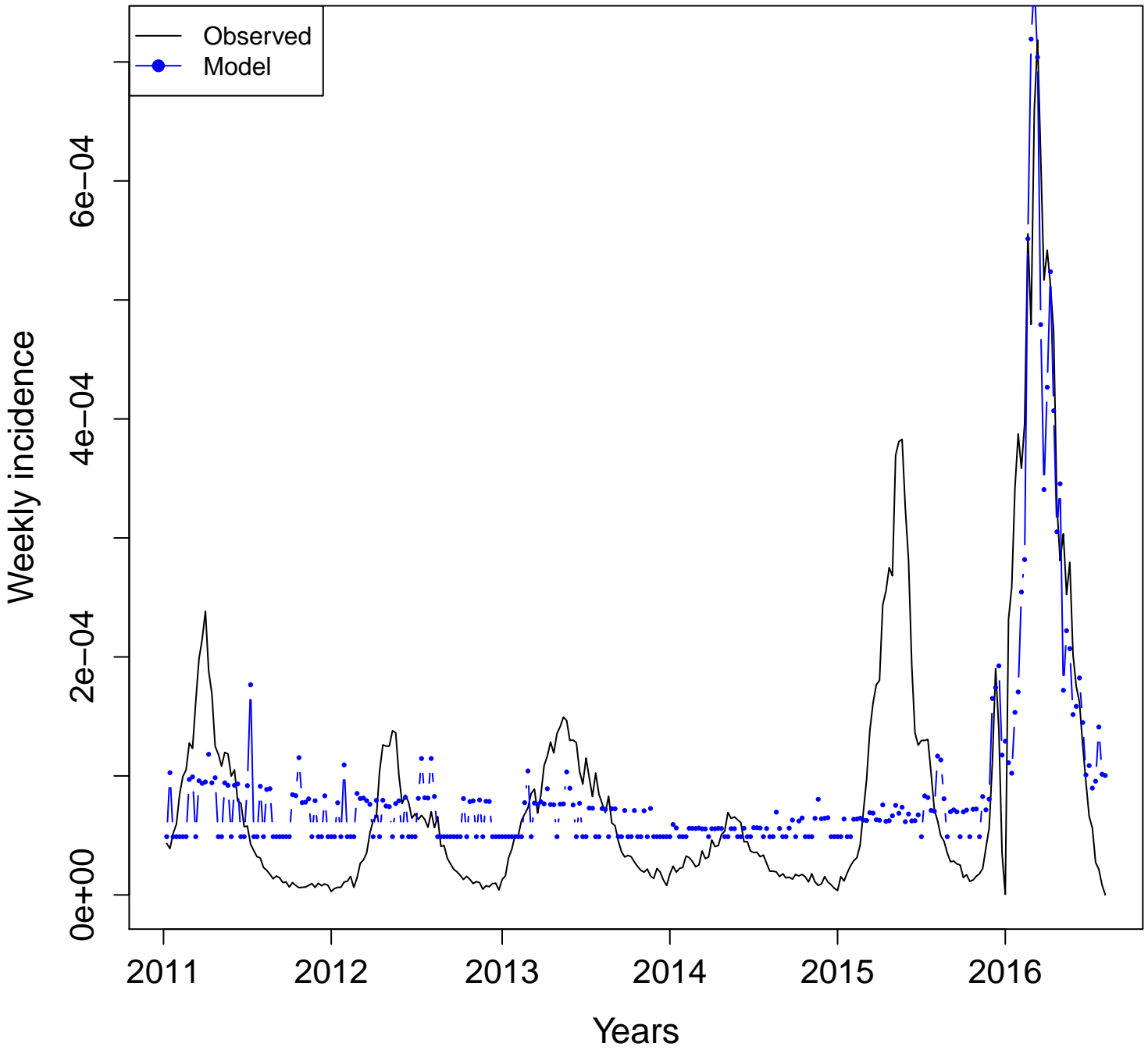
**BR-PB
Adj. R squared = 0.6825**



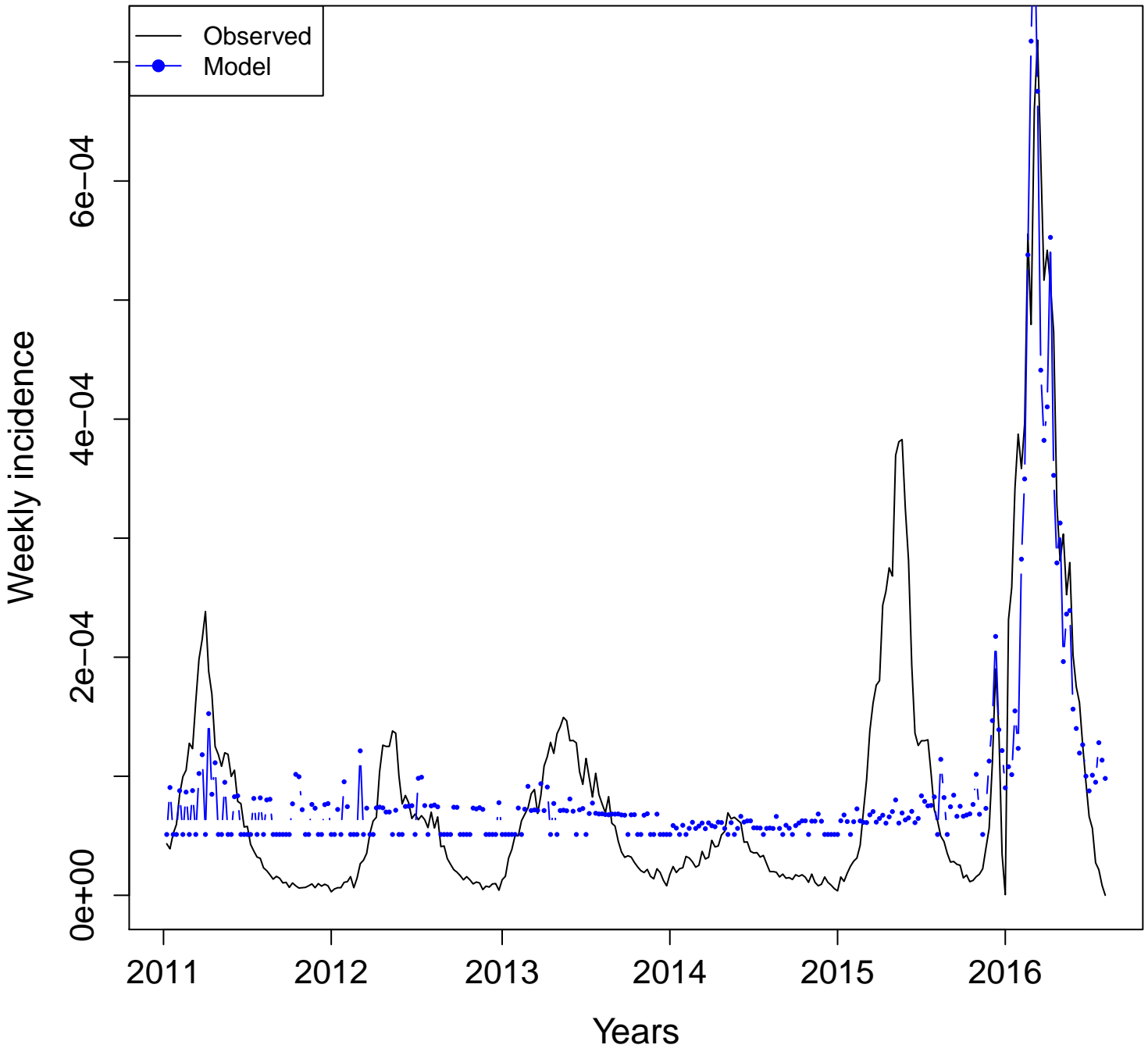
Individual terms
Adjusted R squared

Paraiba (PB)

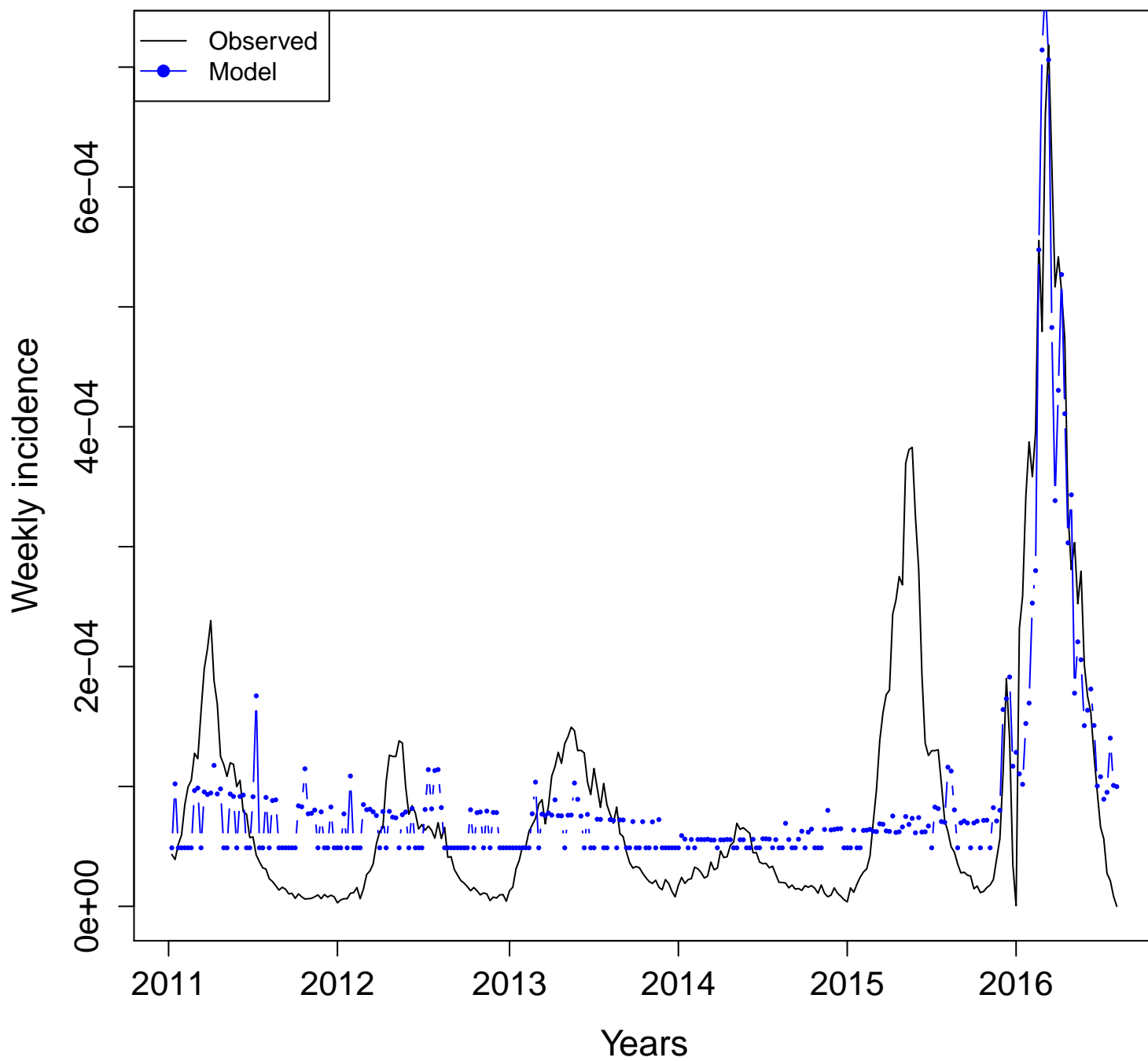
PB- aedes.aegypti
Adj. R squared = 0.6334



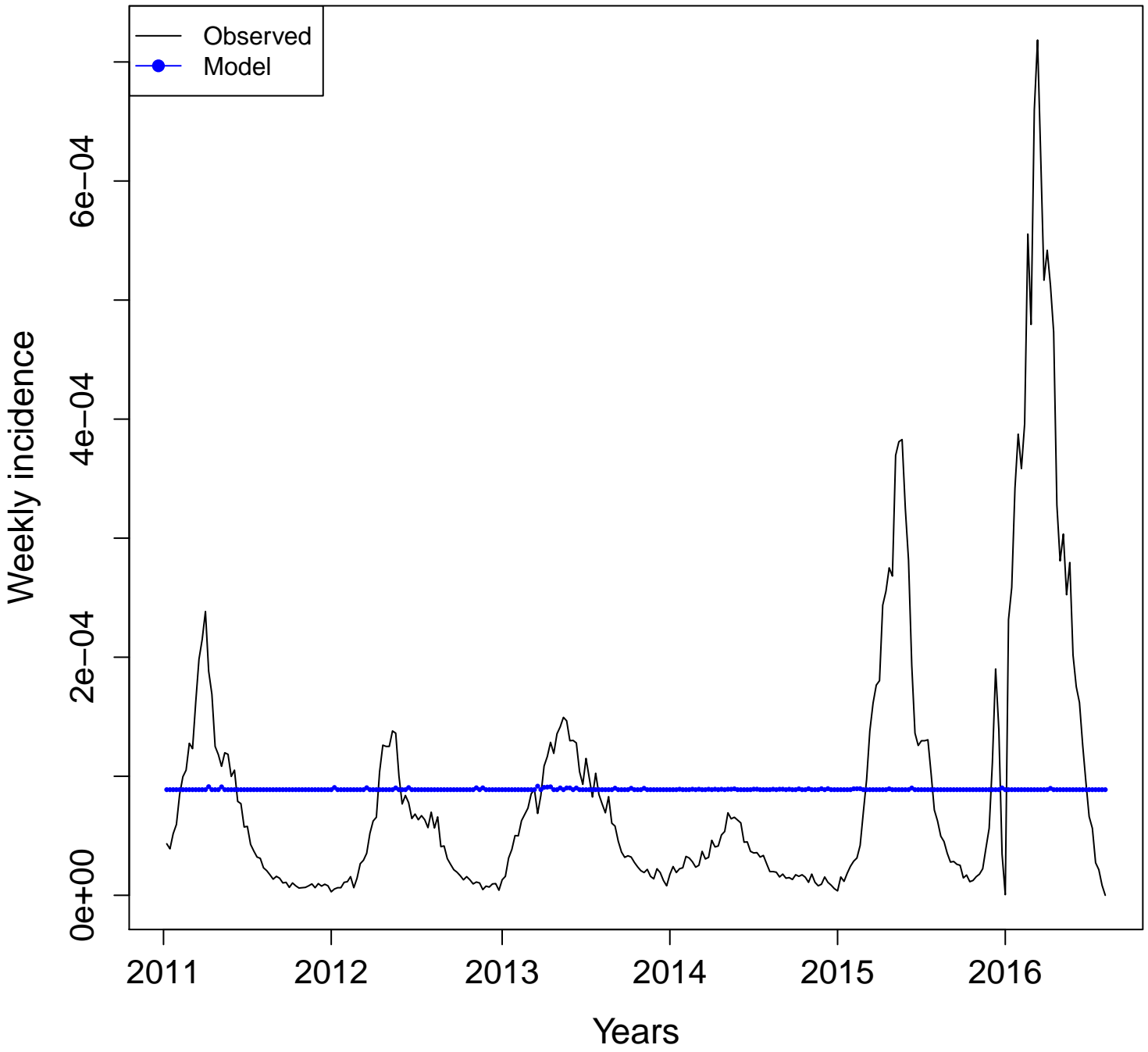
PB- aedes
Adj. R squared = 0.6295



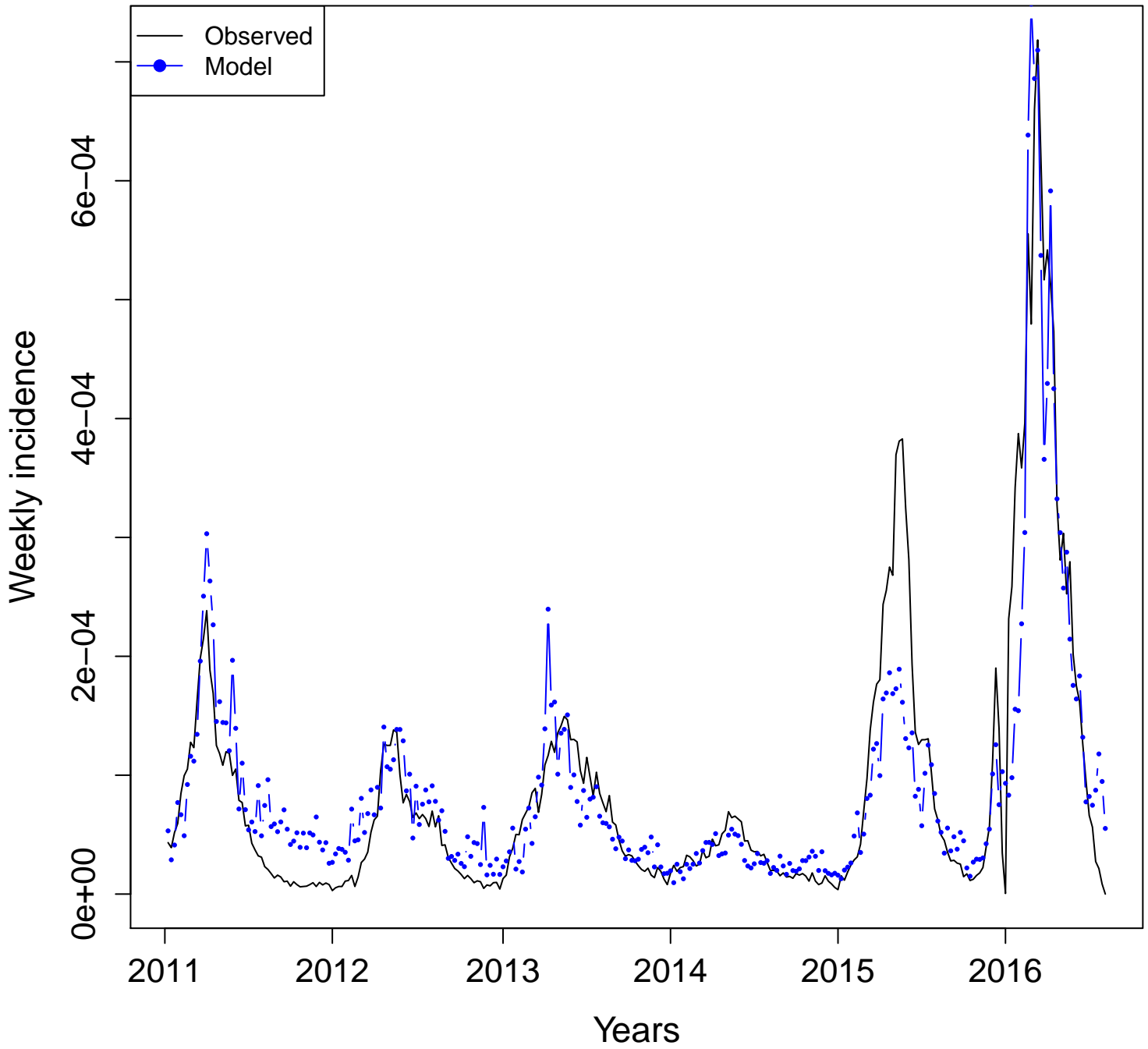
PB- aegypti
Adj. R squared = 0.634



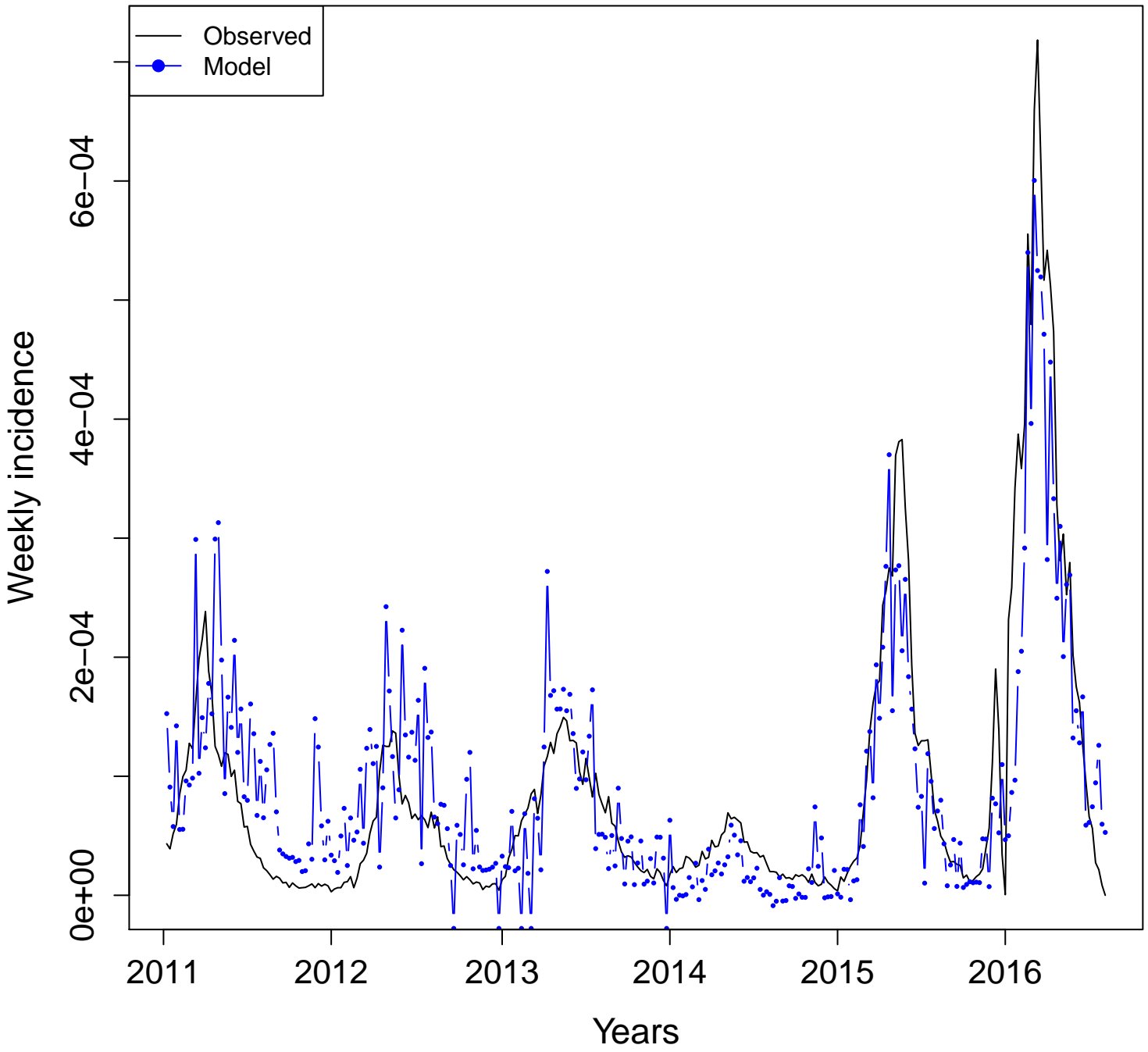
PB- dengue.fever
Adj. R squared = -0.0034



PB- dengue
Adj. R squared = 0.811

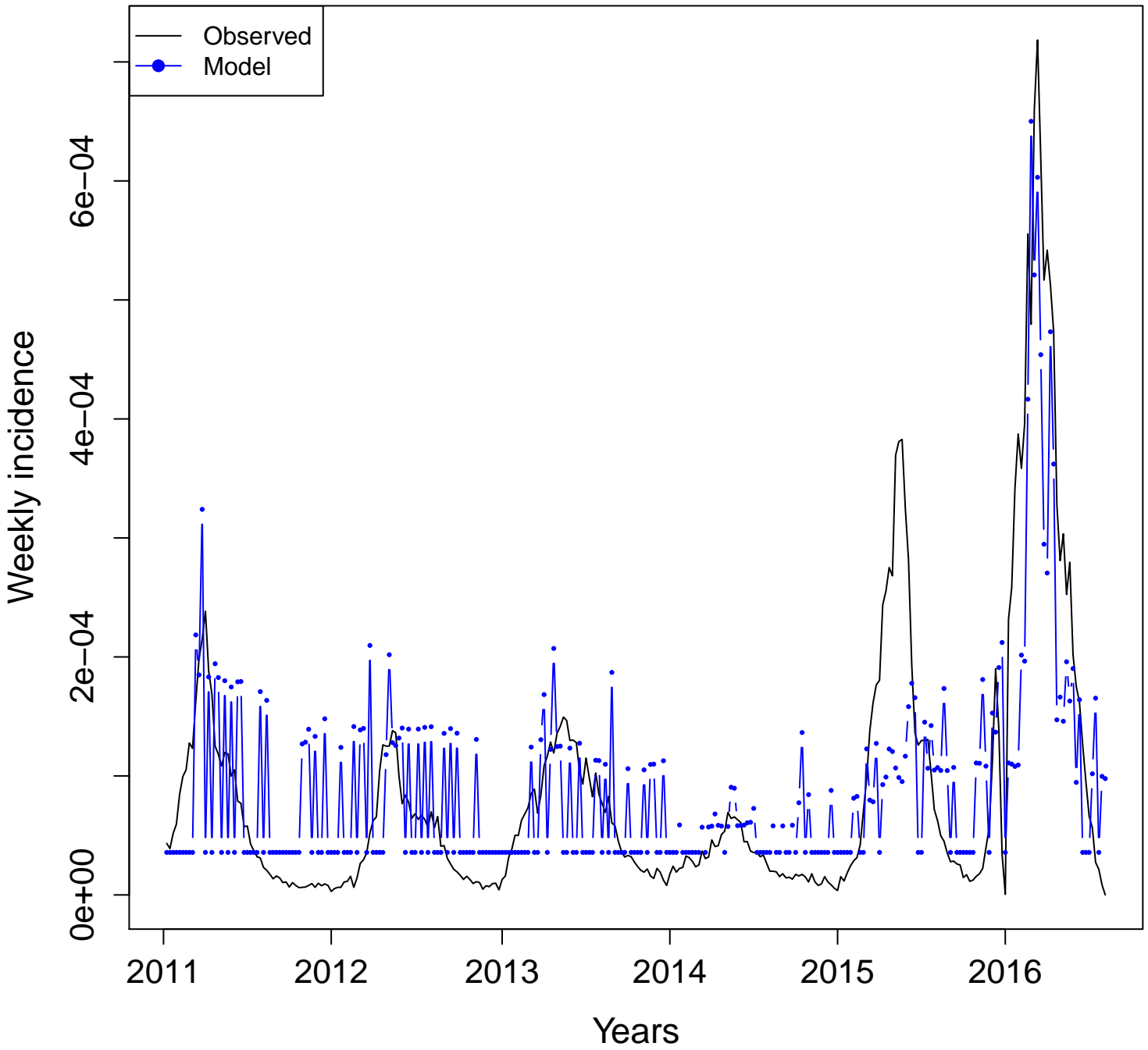


PB- dengue.sintomas
Adj. R squared = 0.7197

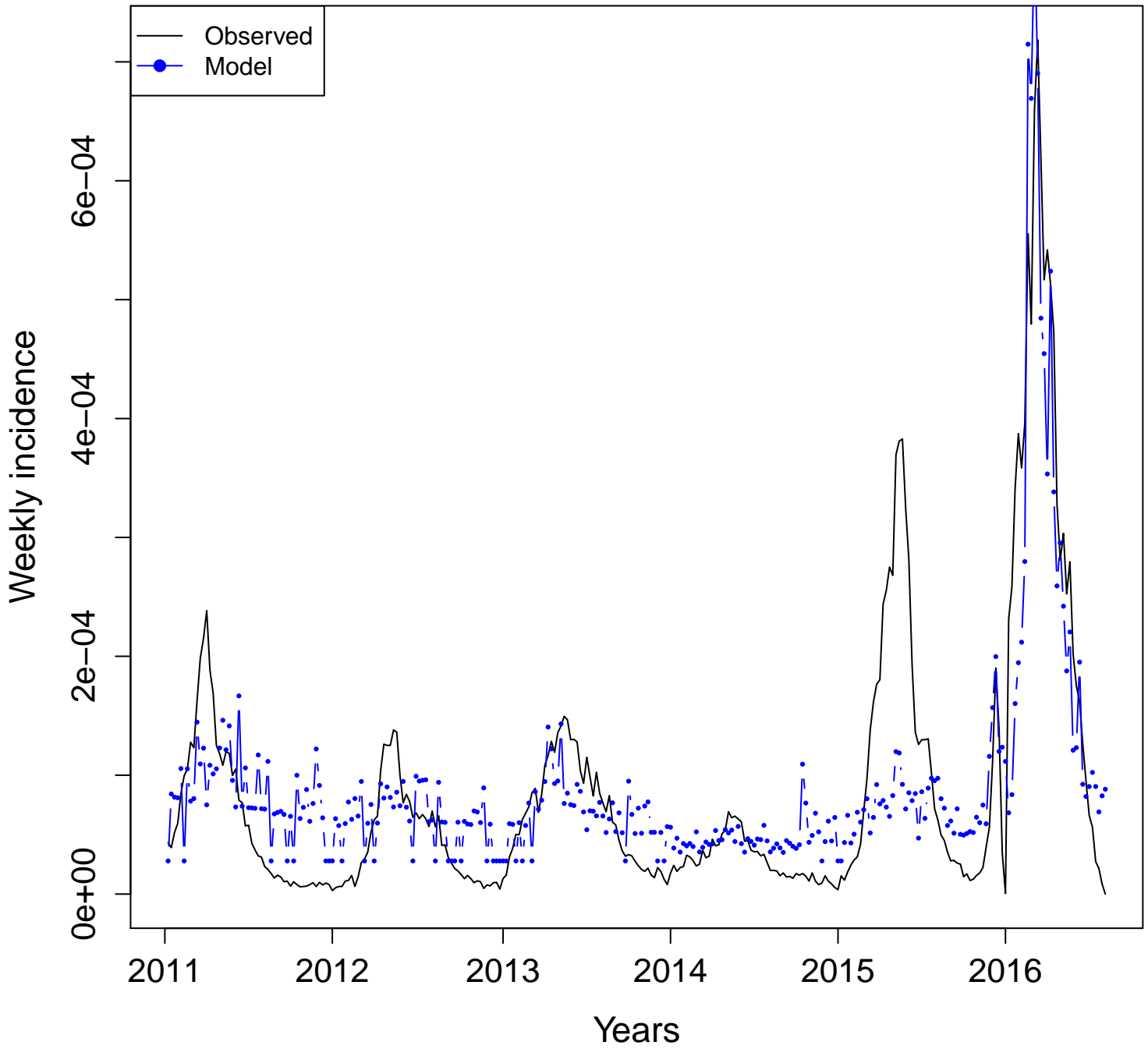


PB- dengue.virus

Adj. R squared = 0.5352

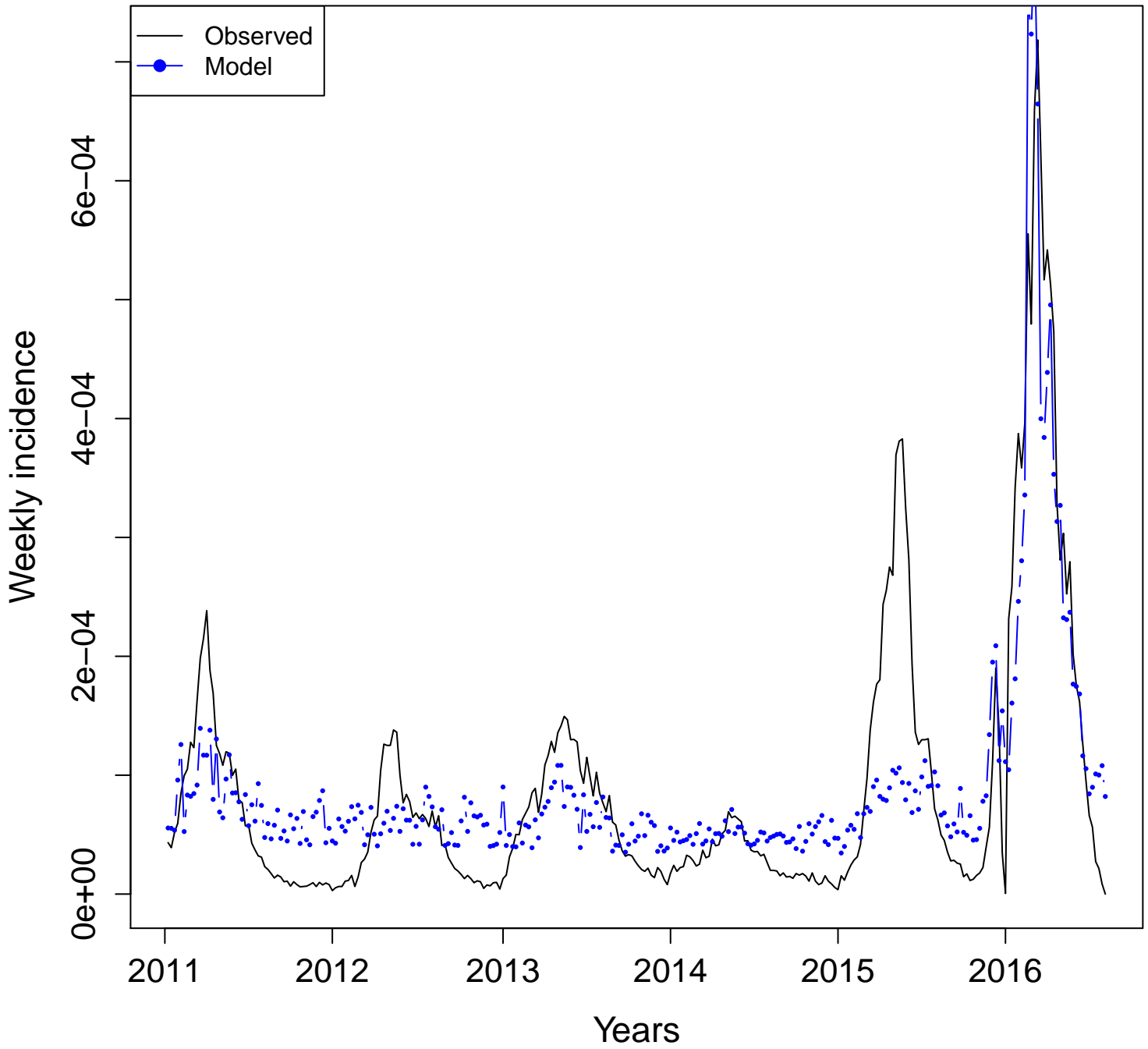


PB- mosquito.dengue
Adj. R squared = 0.6792

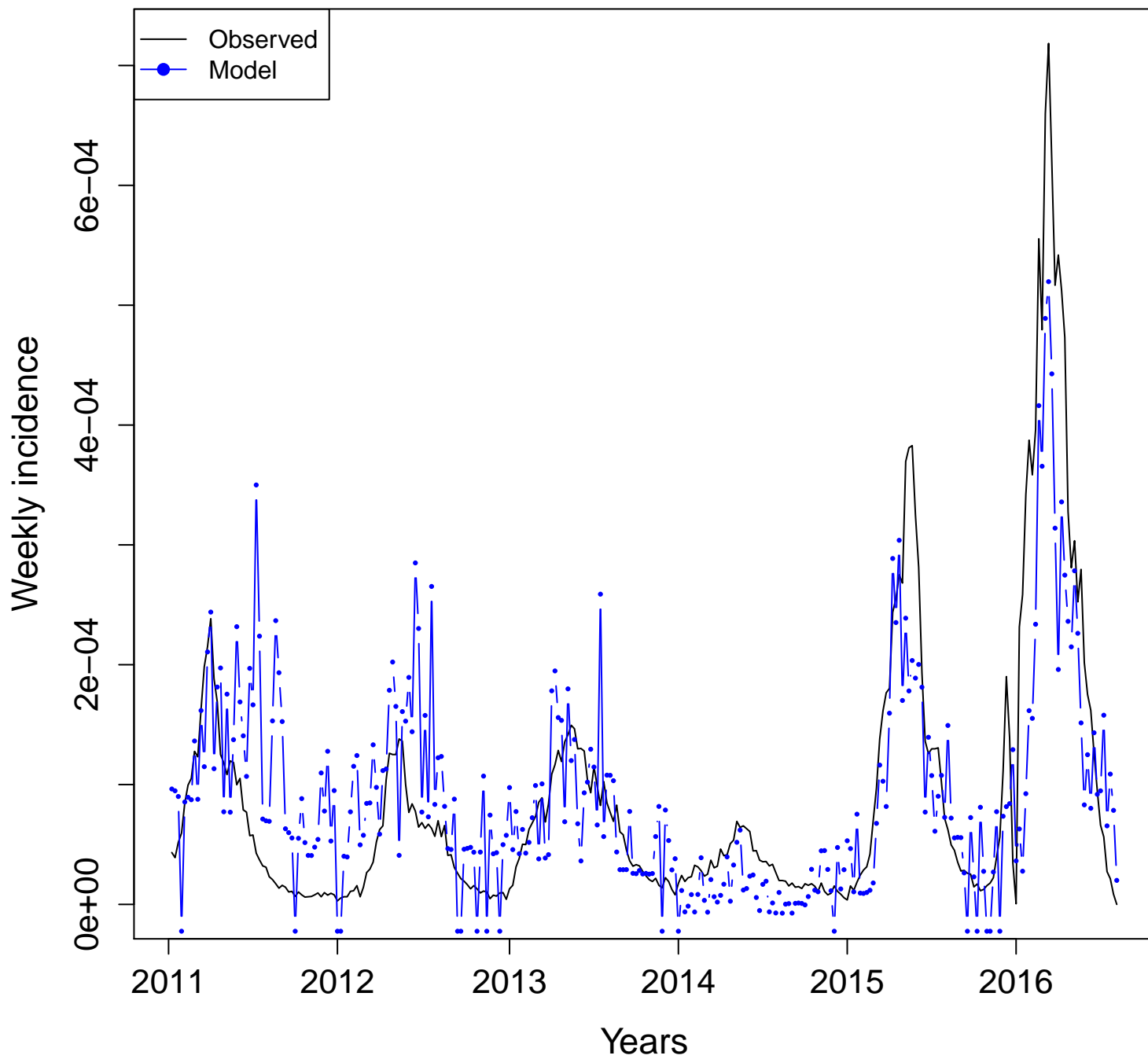


PB- mosquito

Adj. R squared = 0.7024



PB- sintomas.da.dengue
Adj. R squared = 0.5705



Pernambuco (PE)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

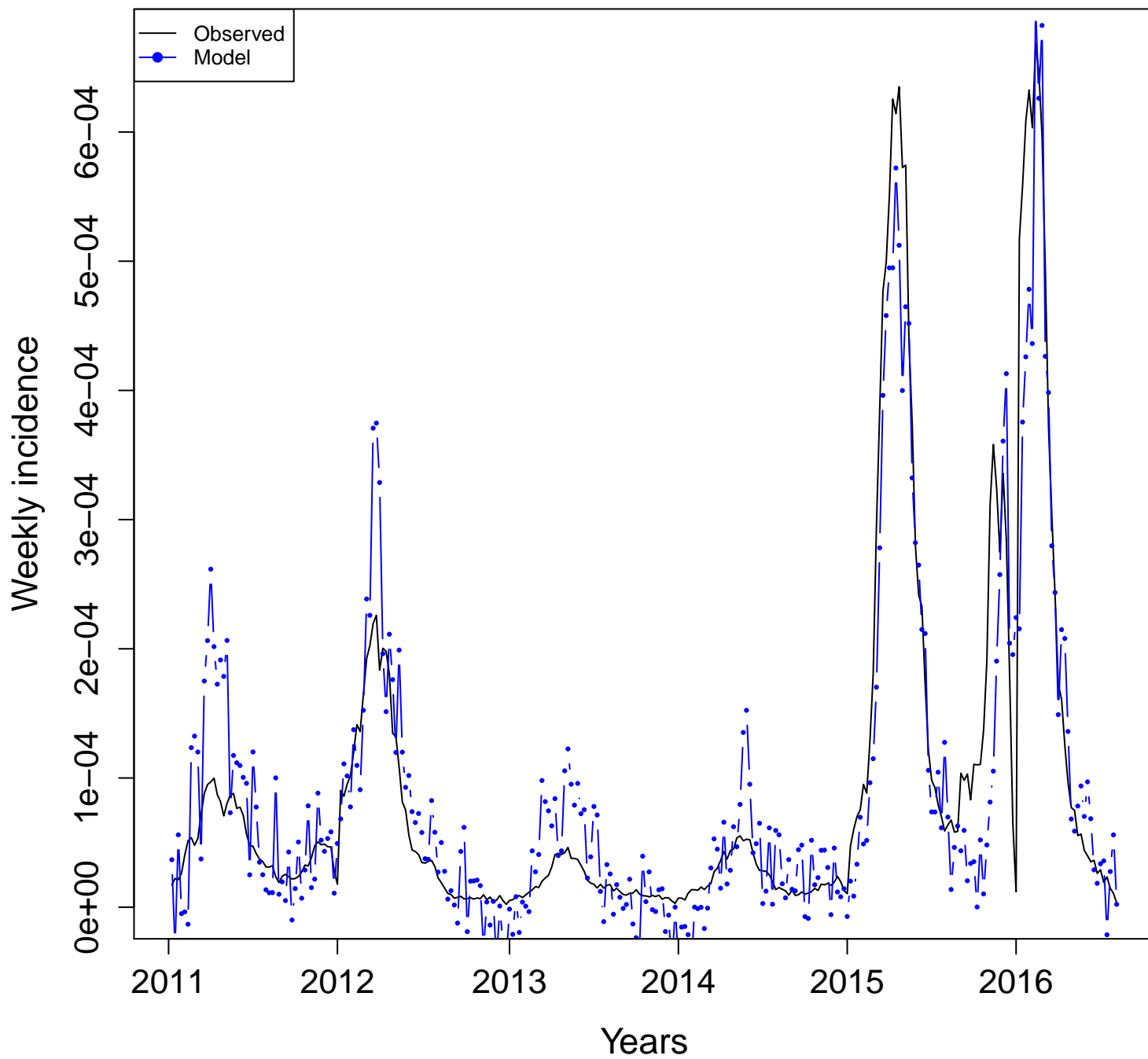
- **Combined terms:**
 - **All:** model with all the available terms. n = number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. n = number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

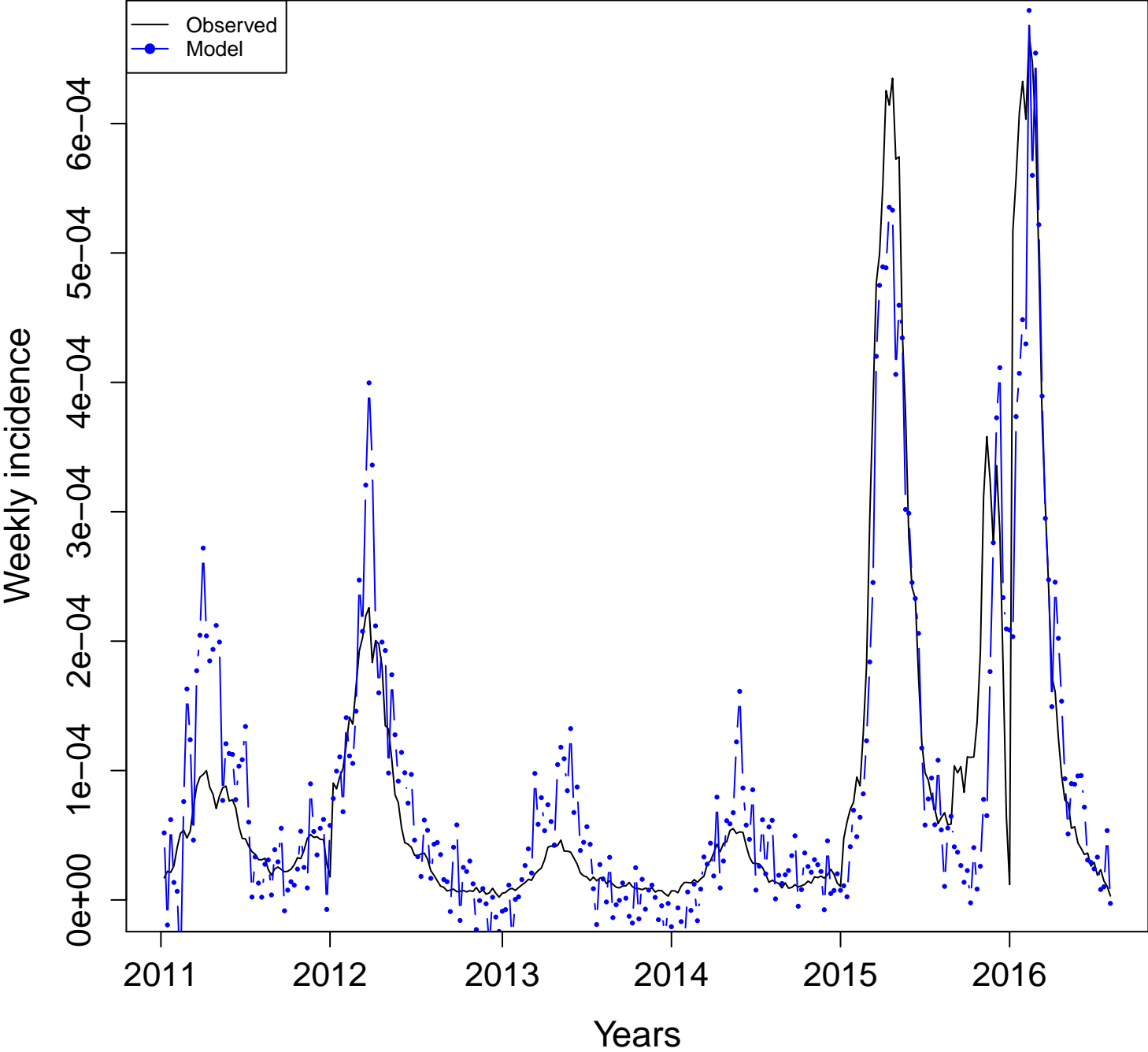
Pernambuco (PE)

All
(n = 10)

BR-PE
Adj. R squared = 0.8191

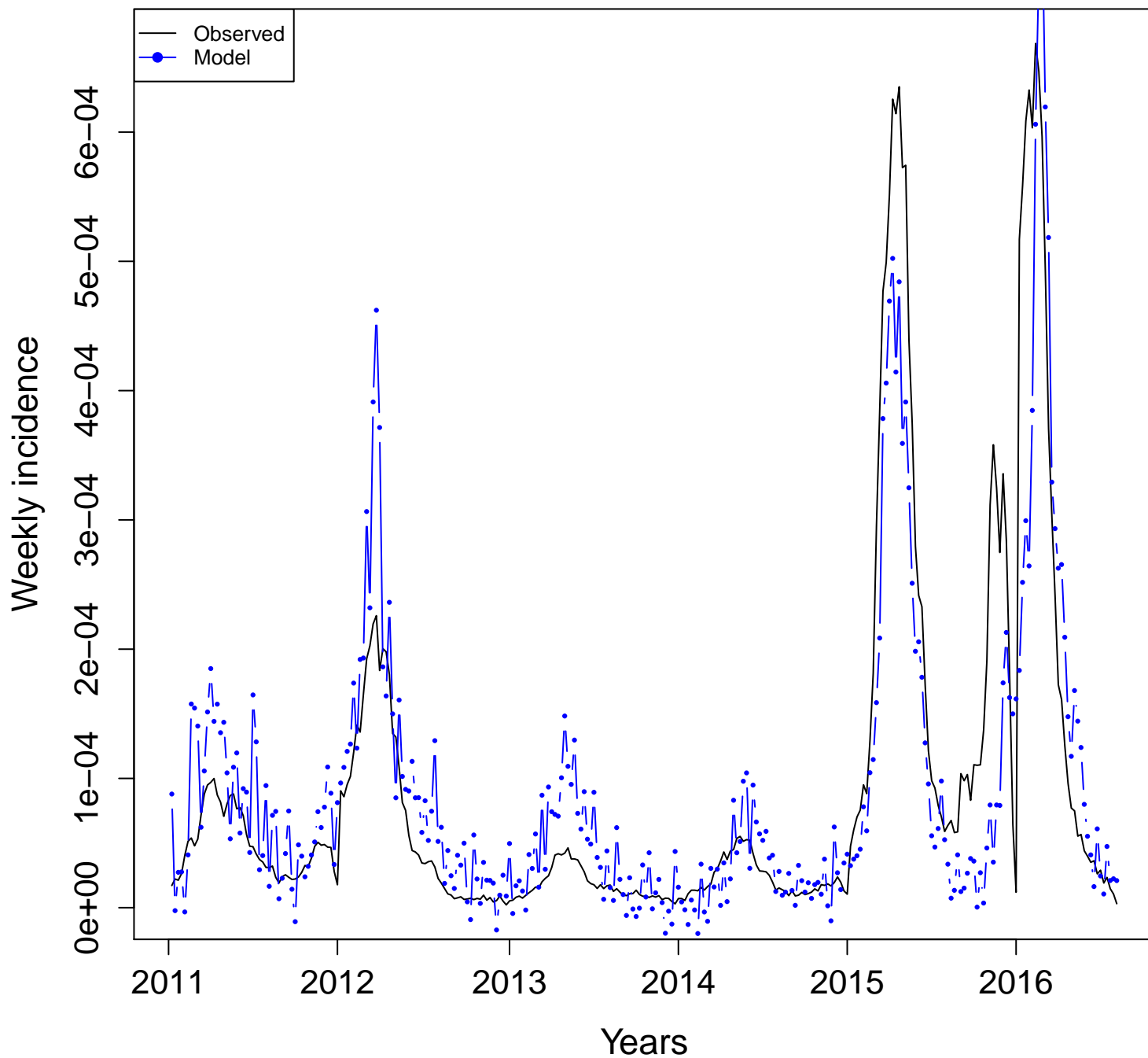


BR-PE
Adj. R squared = 0.8083



**Uncorrelated
(n = 2)**

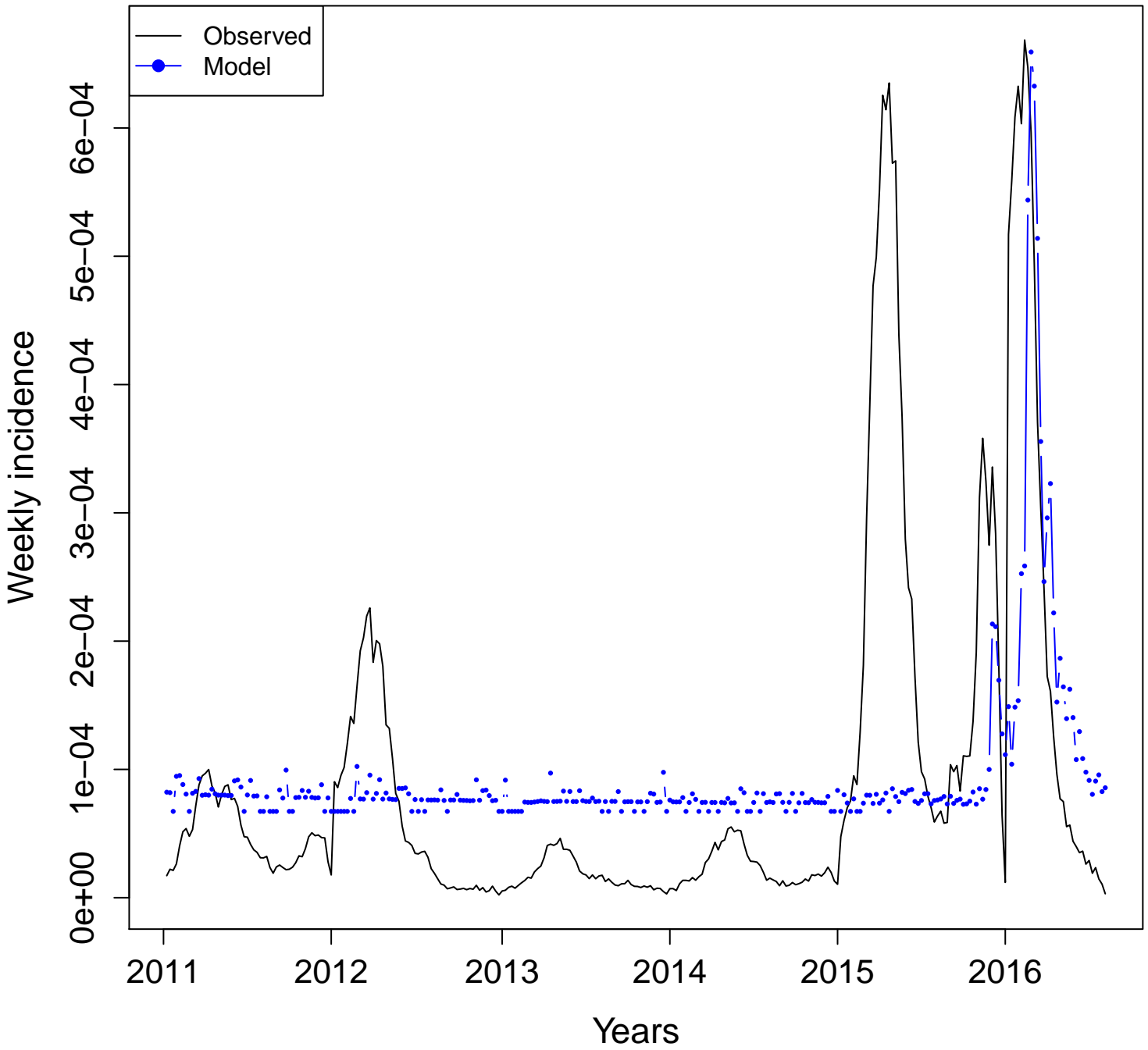
**BR-PE
Adj. R squared = 0.7141**



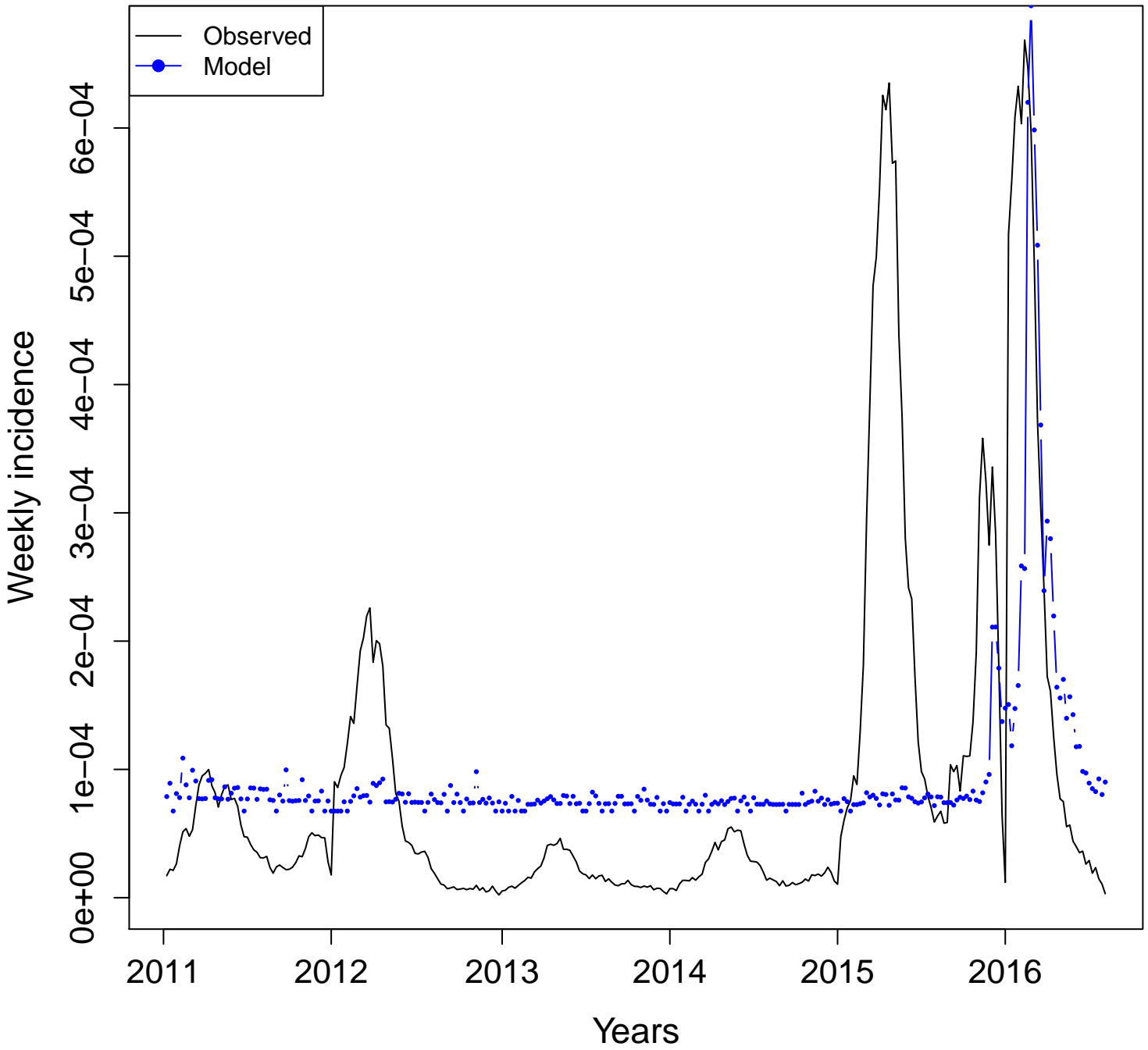
Individual terms
Adjusted R squared

Pernambuco (PE)

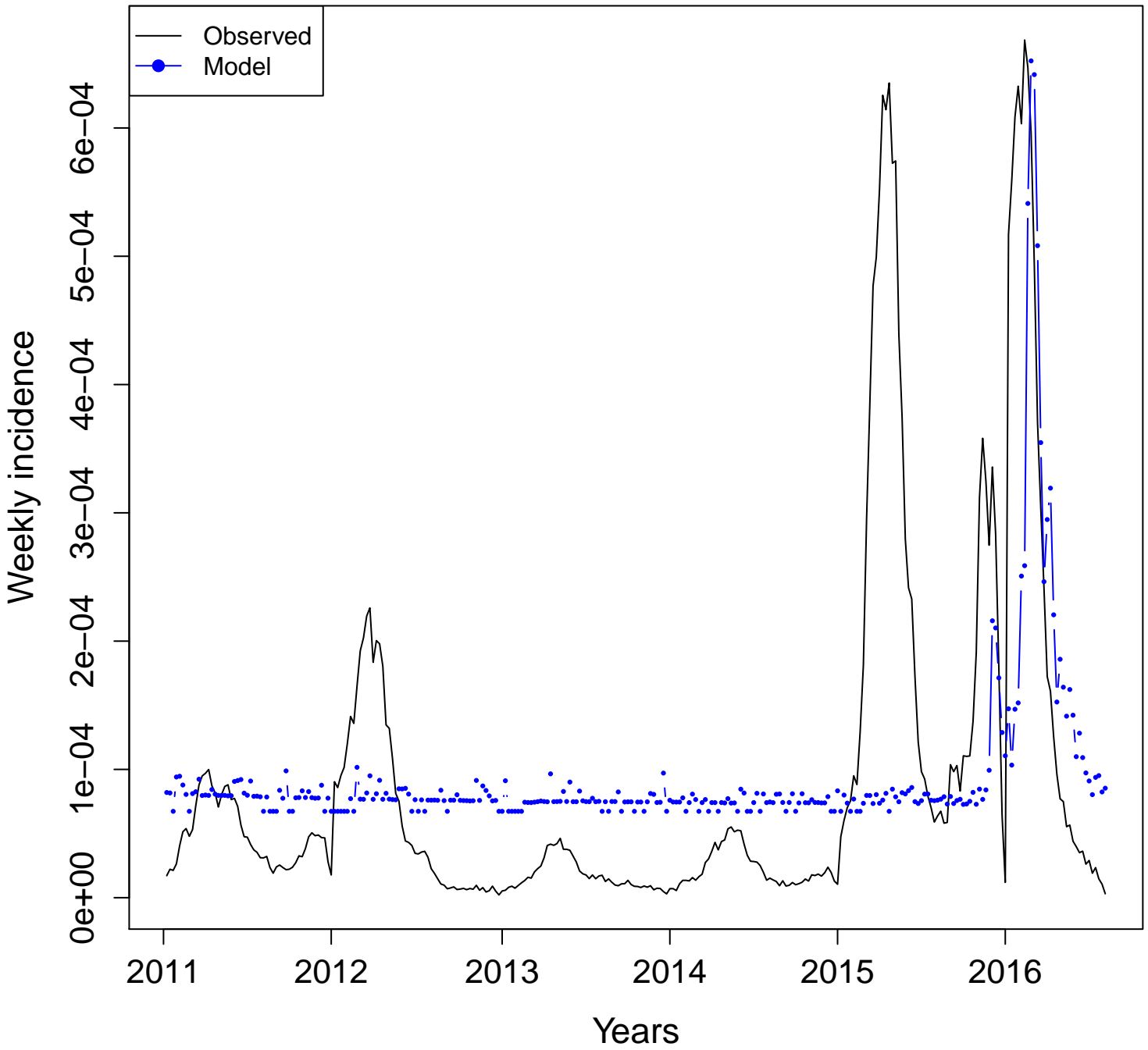
PE- aedes.aegypti
Adj. R squared = 0.2286



PE- aedes
Adj. R squared = 0.2396

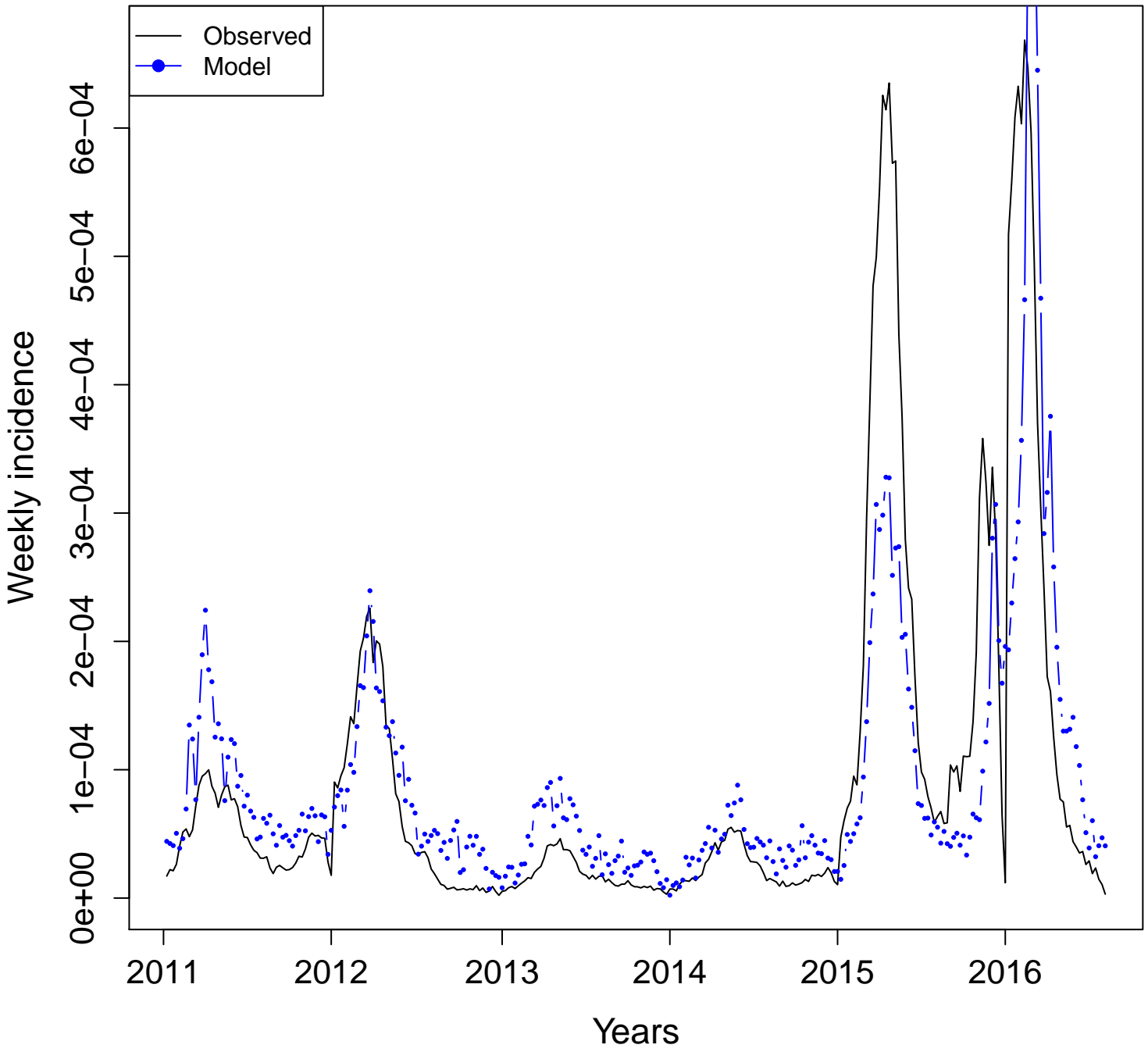


PE- aegypti
Adj. R squared = 0.2271

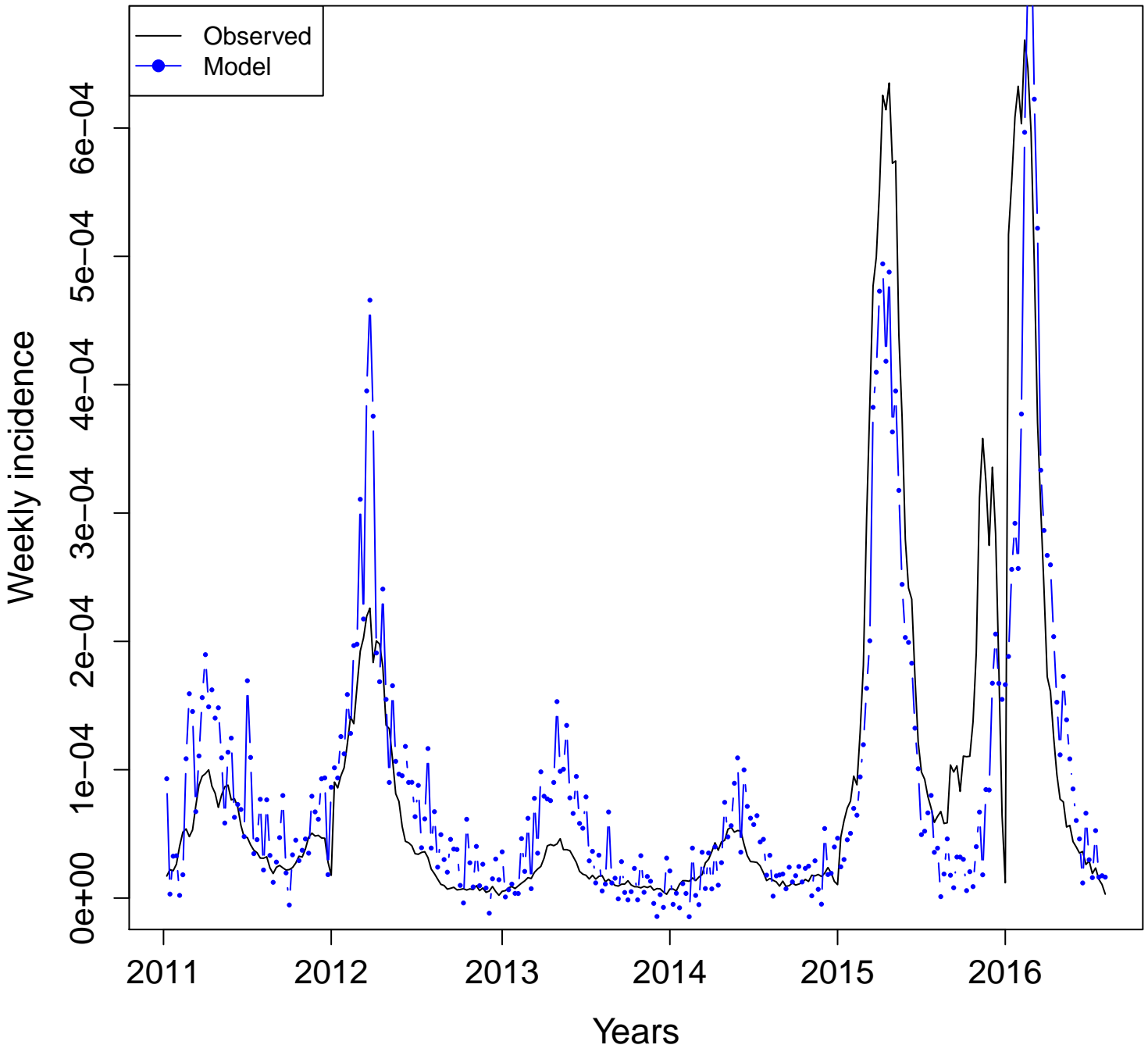


PE- dengue

Adj. R squared = 0.6232

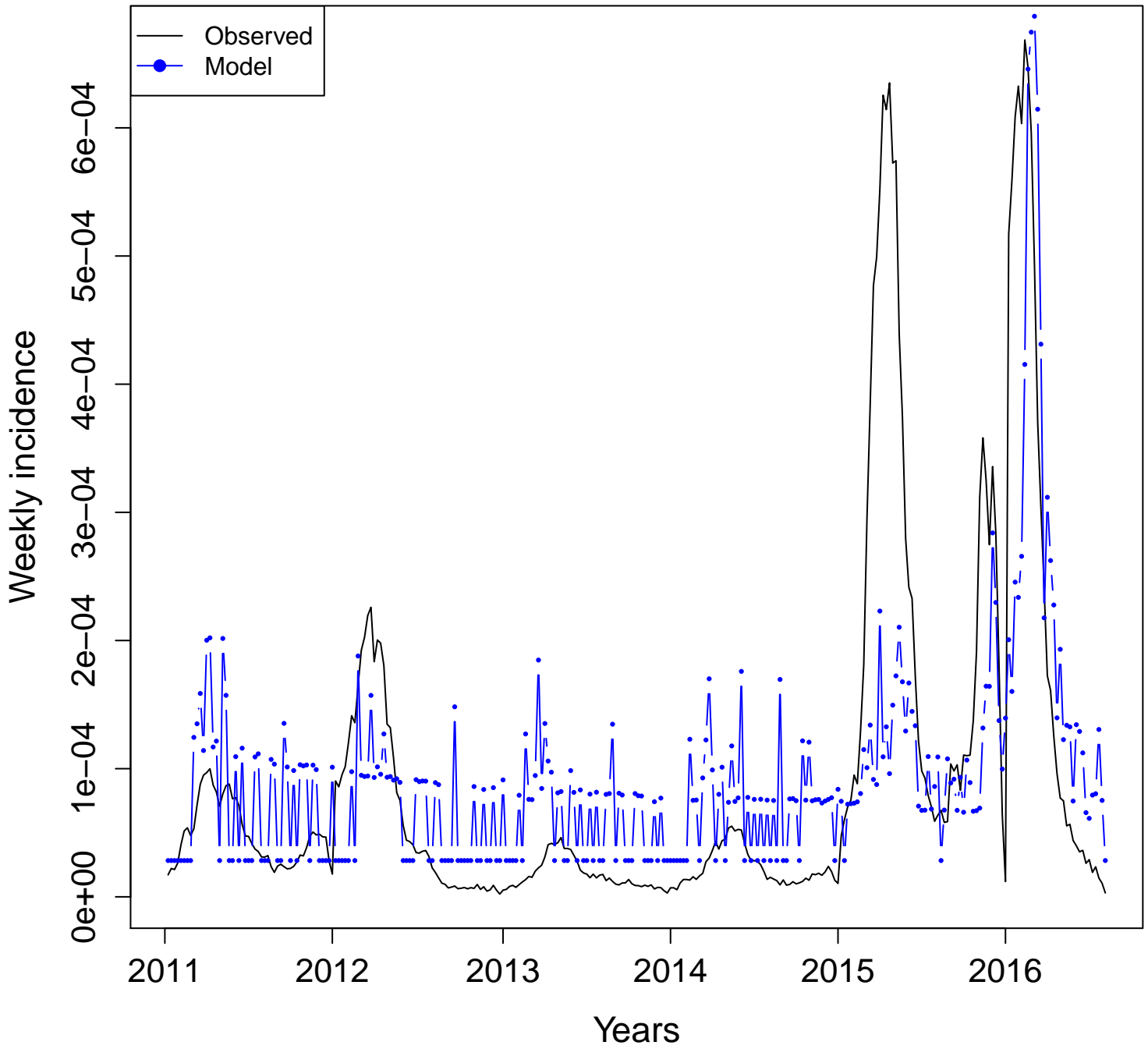


PE- dengue.sintomas
Adj. R squared = 0.7118

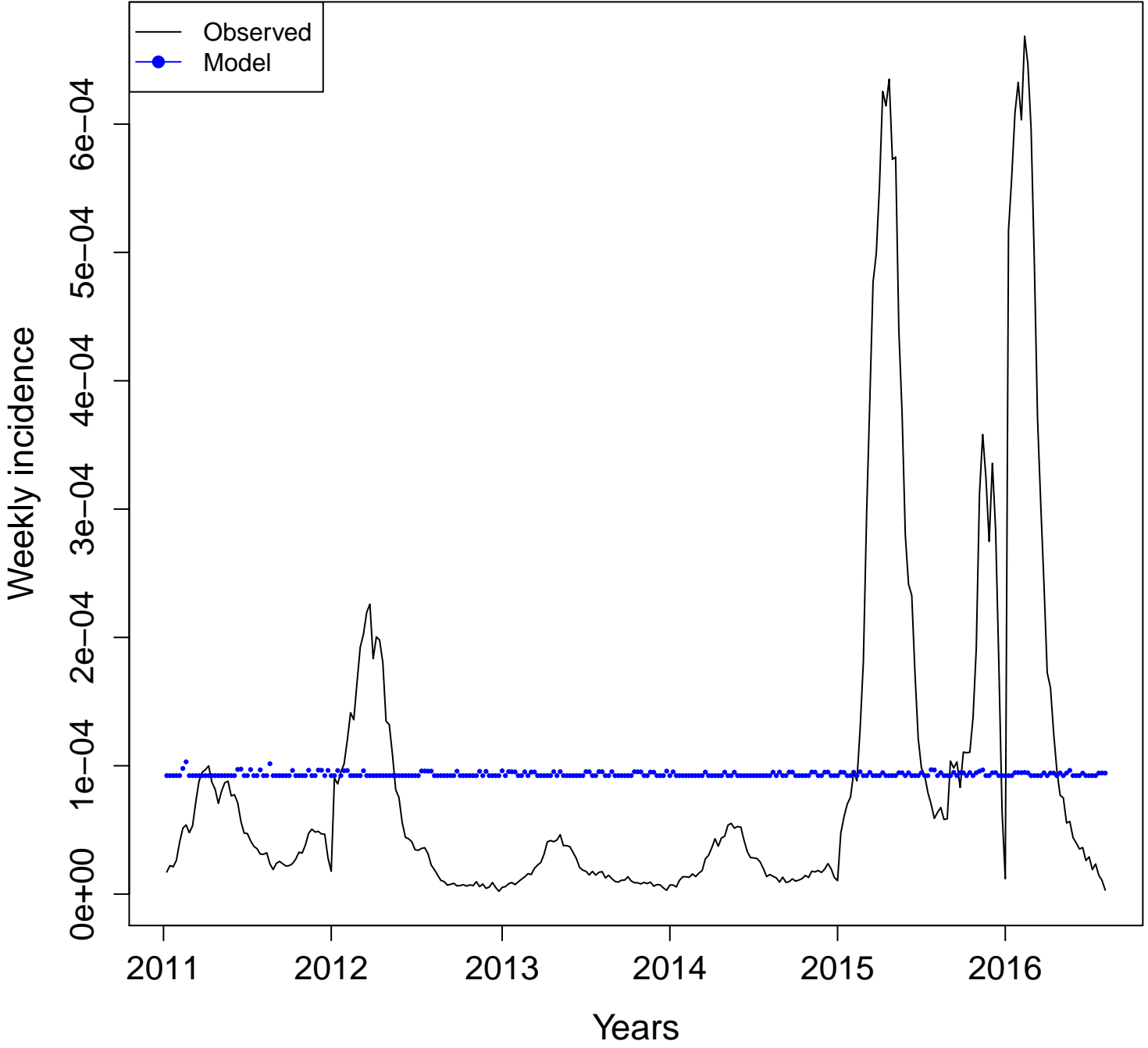


PE- dengue.virus

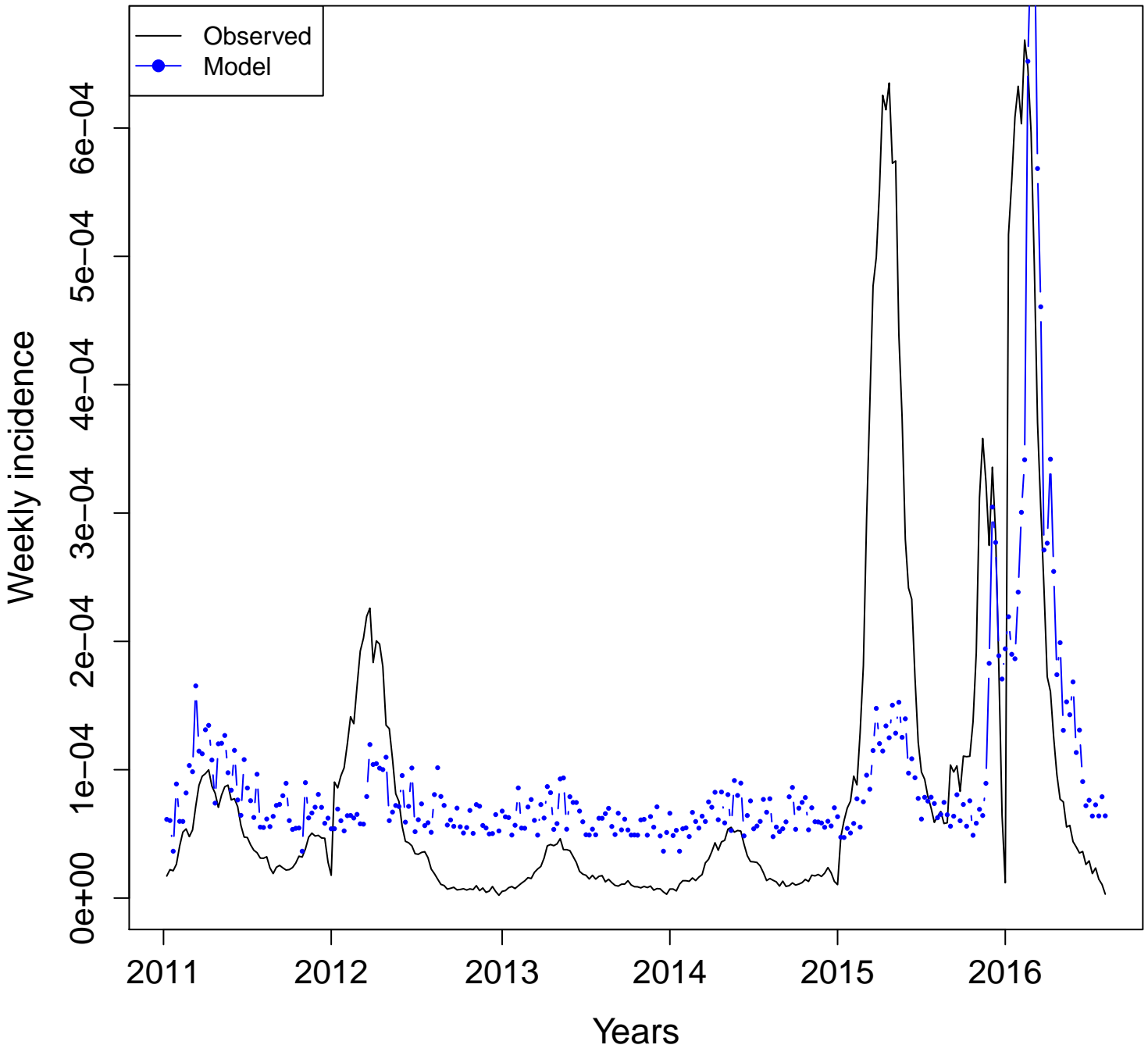
Adj. R squared = 0.3911



PE- DHF
Adj. R squared = -0.0033

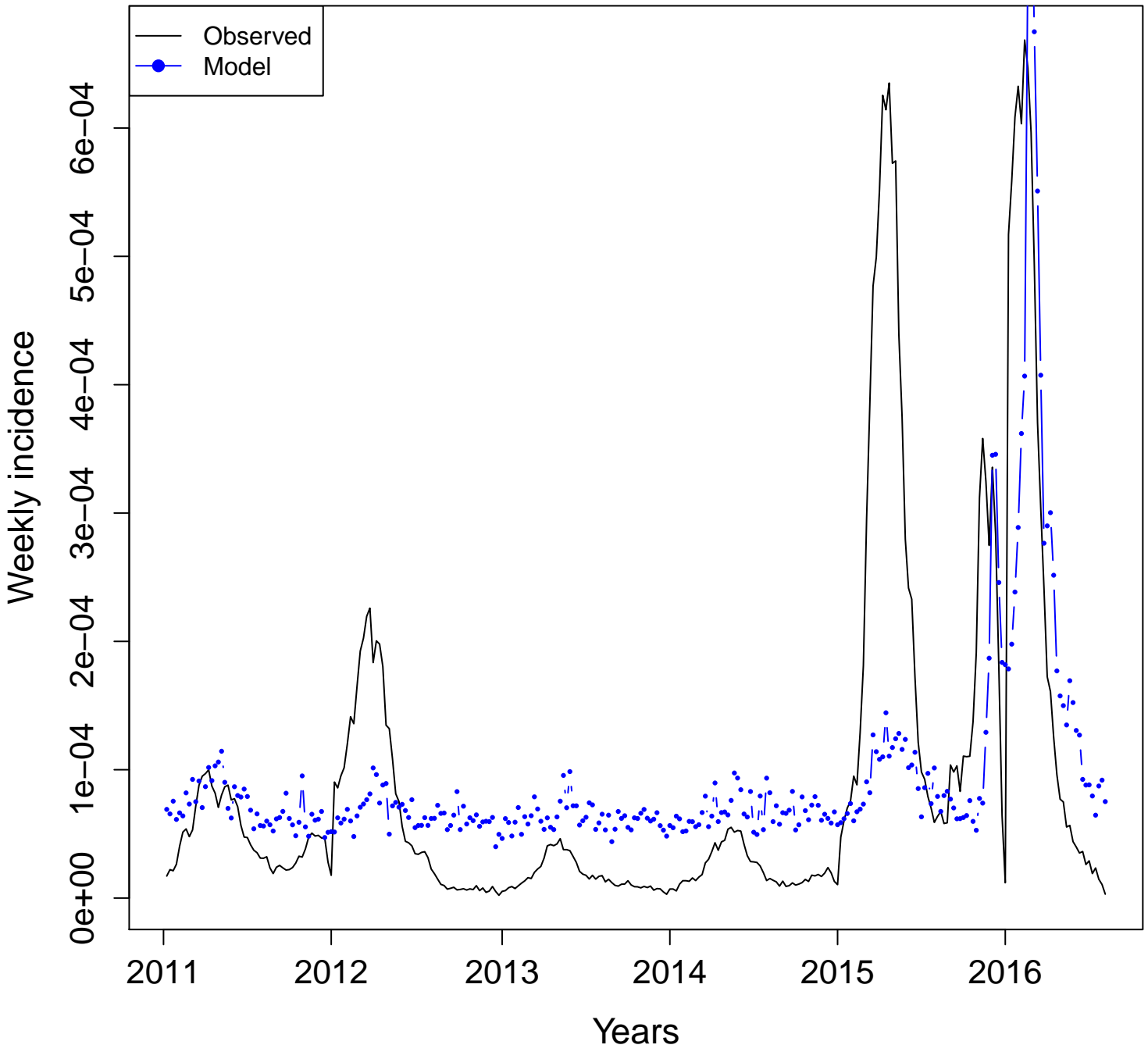


PE- mosquito.dengue
Adj. R squared = 0.3725

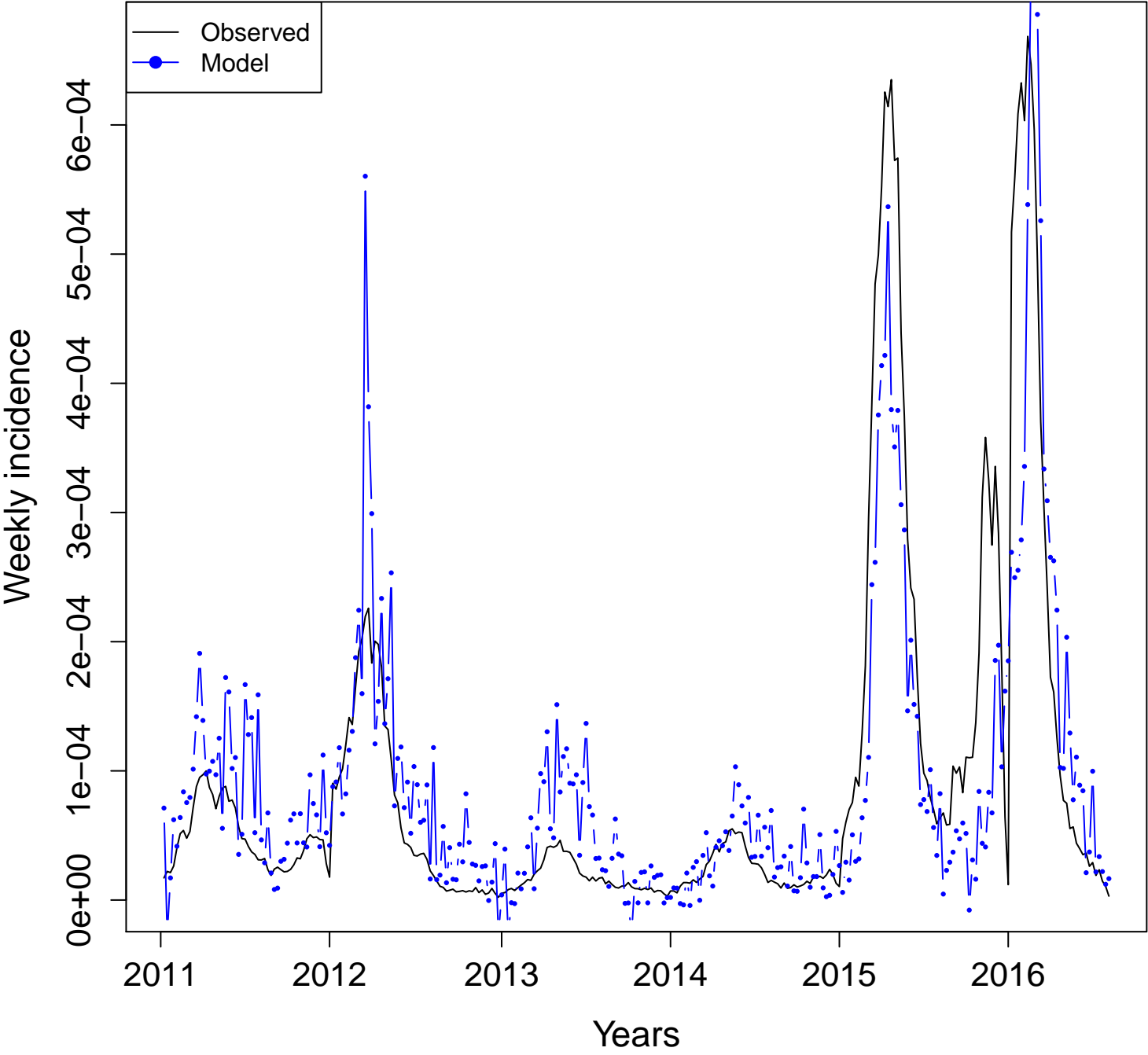


PE- mosquito

Adj. R squared = 0.3893



PE- sintomas.da.dengue
Adj. R squared = 0.6745



Piauí (PI)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

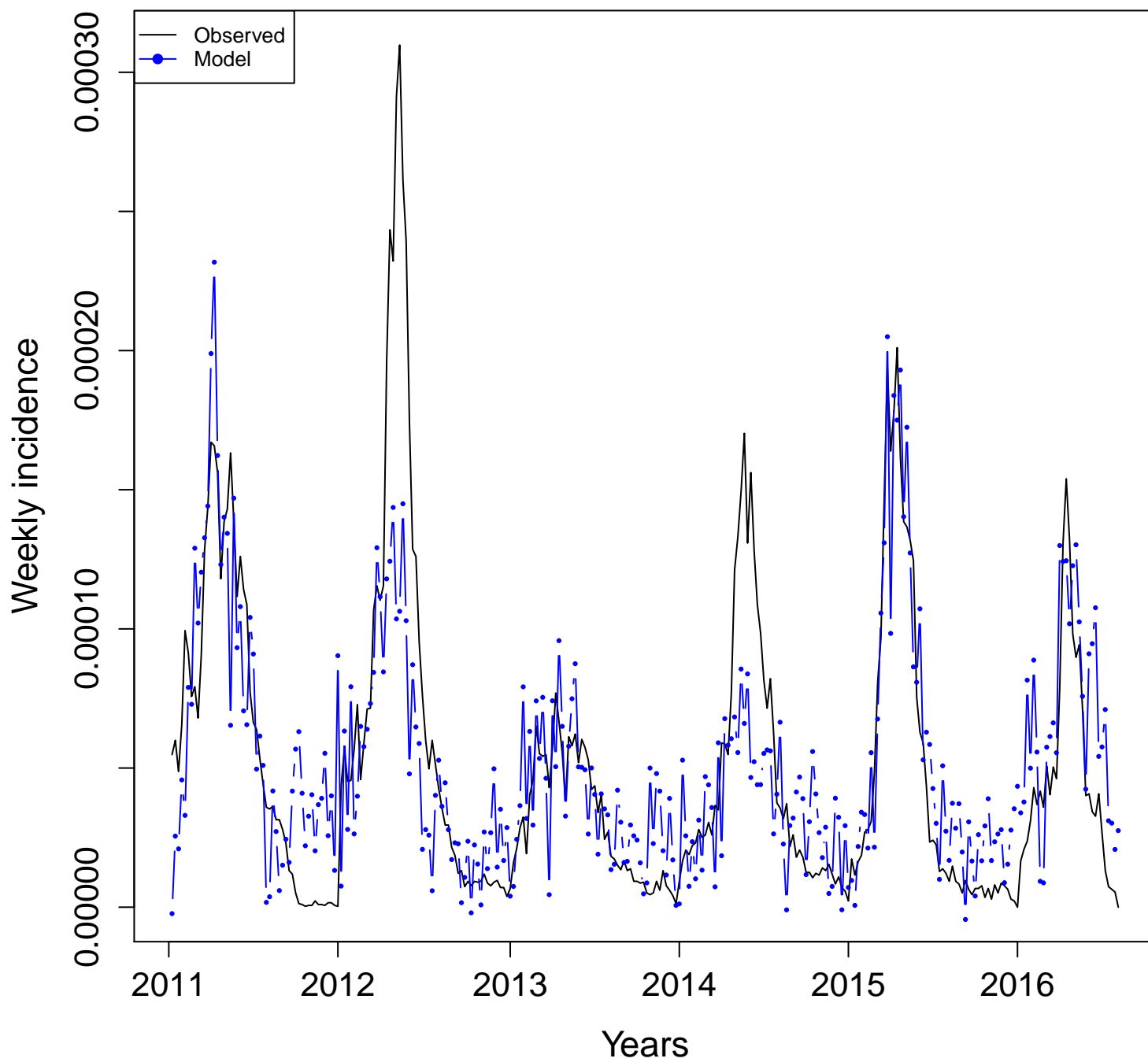
- **Combined terms:**
 - **All:** model with all the available terms. n = number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. n = number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

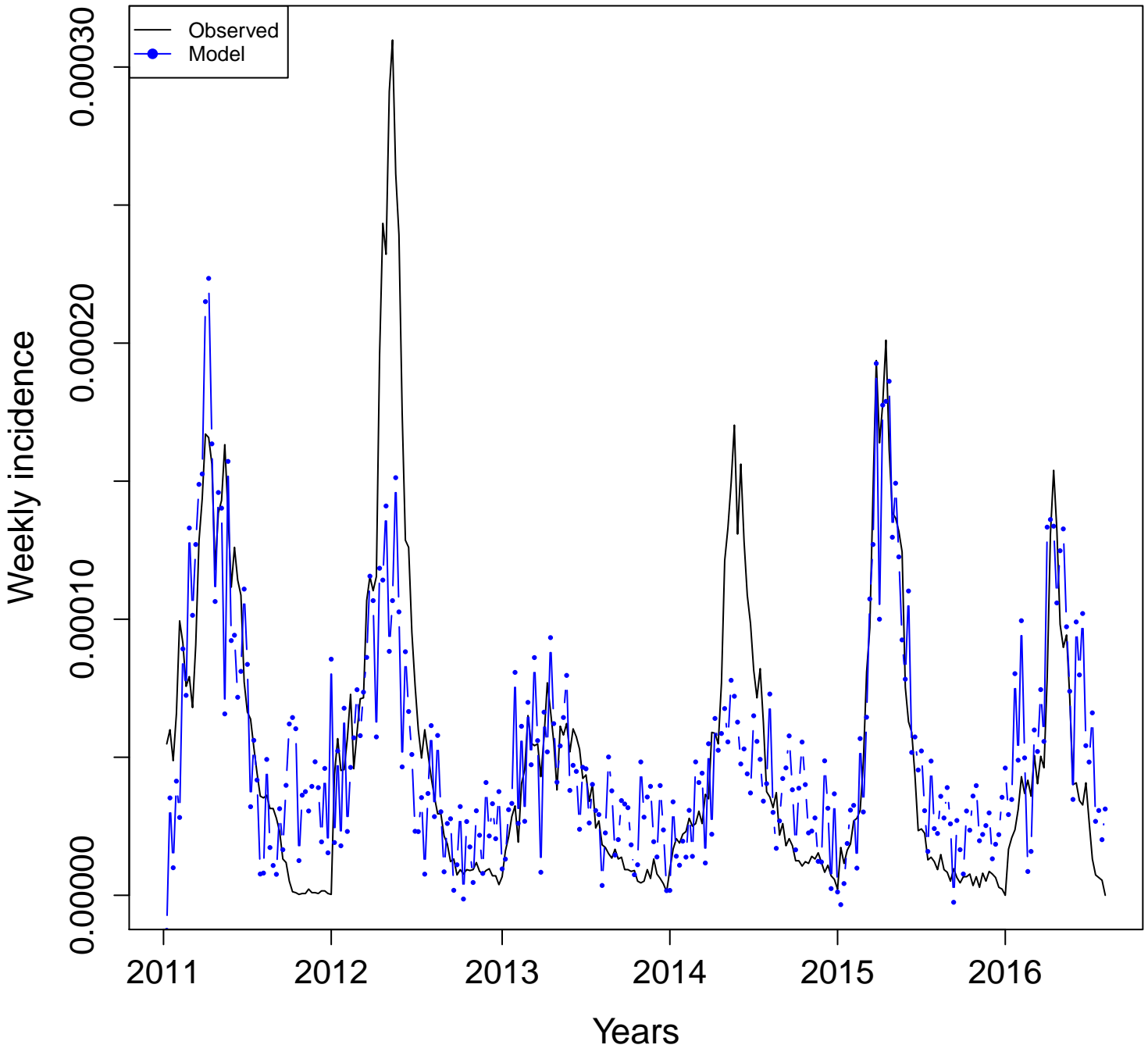
Piauí (PI)

All
(n = 8)

BR-PI
Adj. R squared = 0.5528

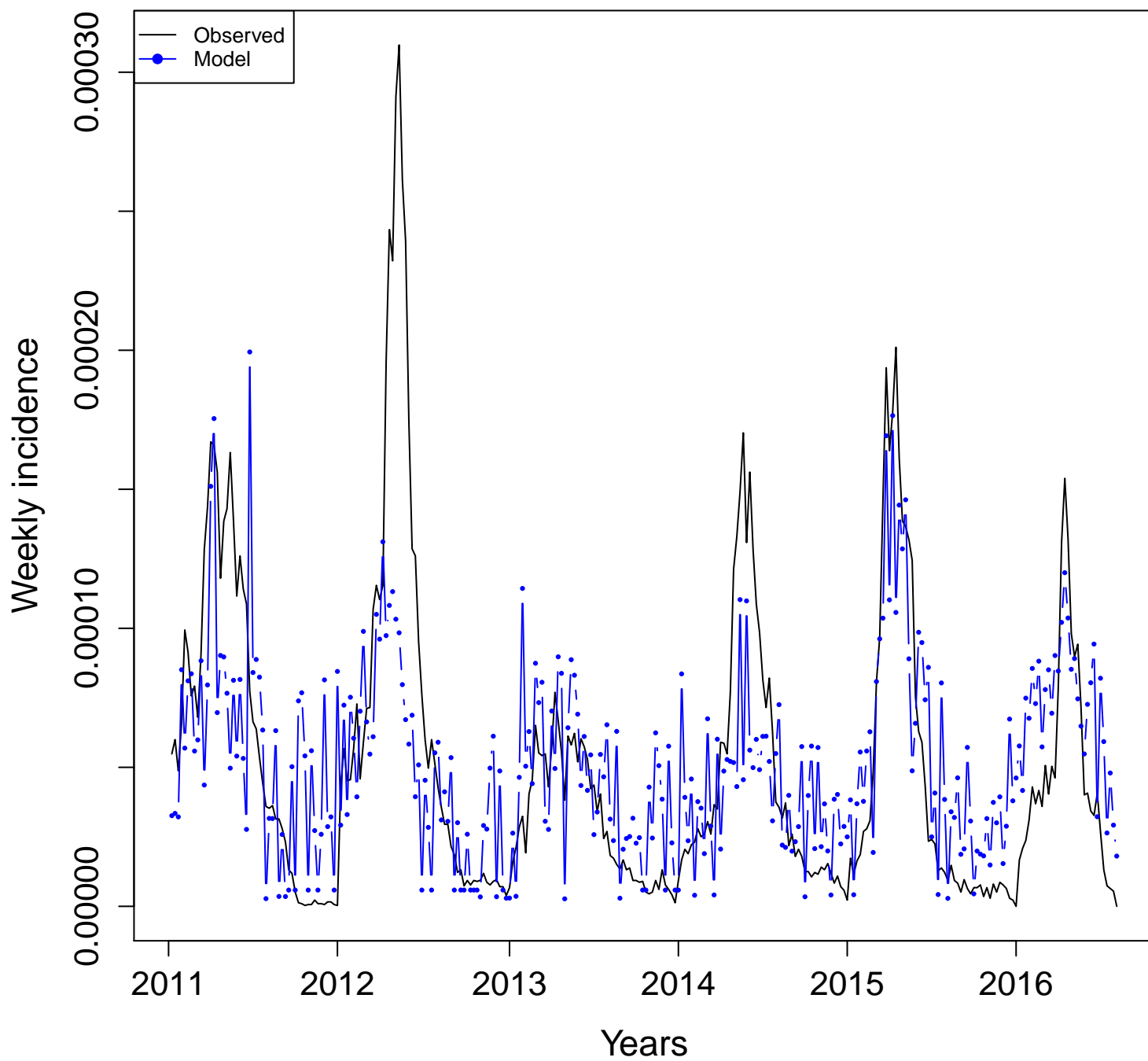


BR-PI
Adj. R squared = 0.5419



**Uncorrelated
(n = 3)**

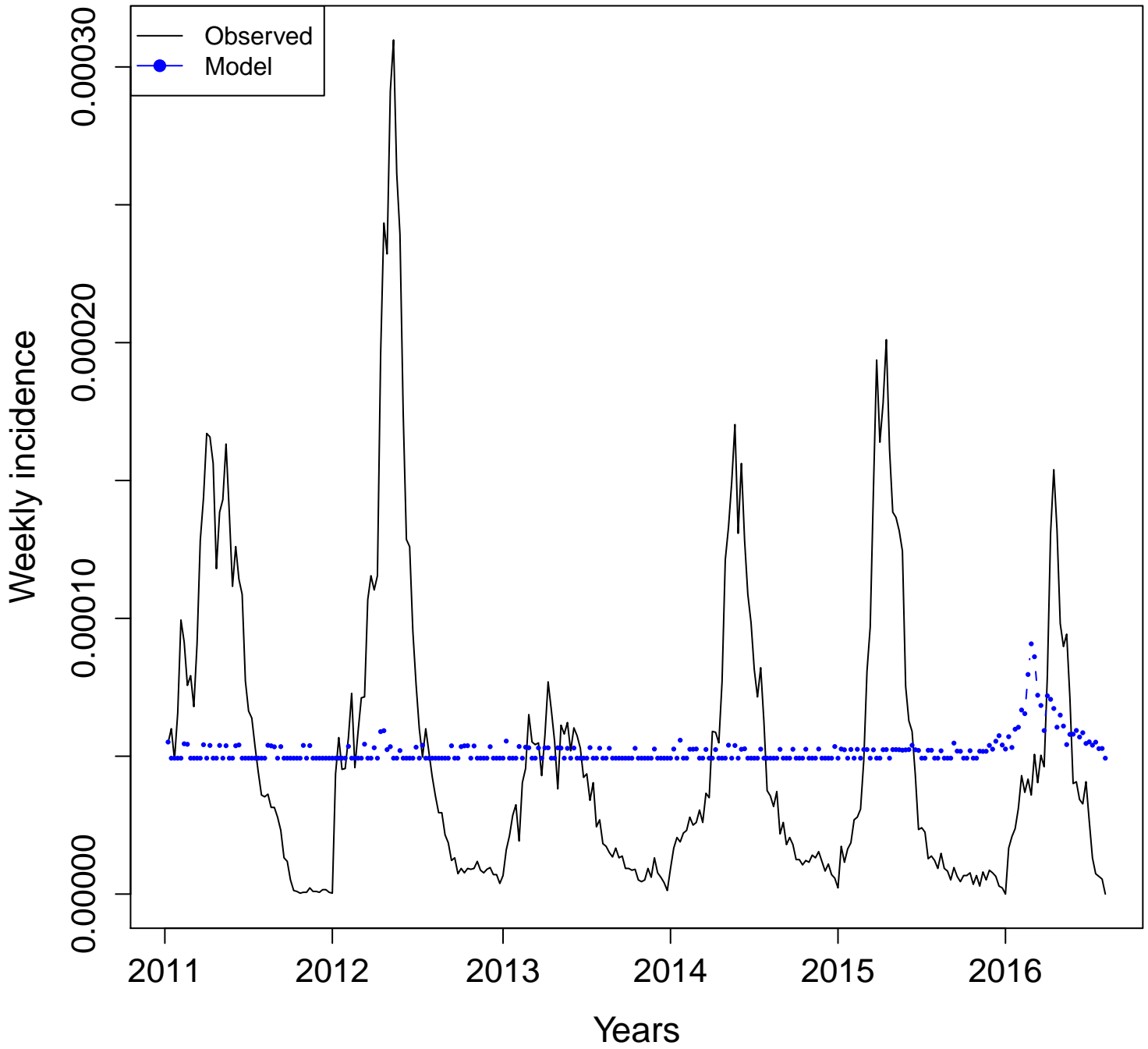
**BR-PI
Adj. R squared = 0.3774**



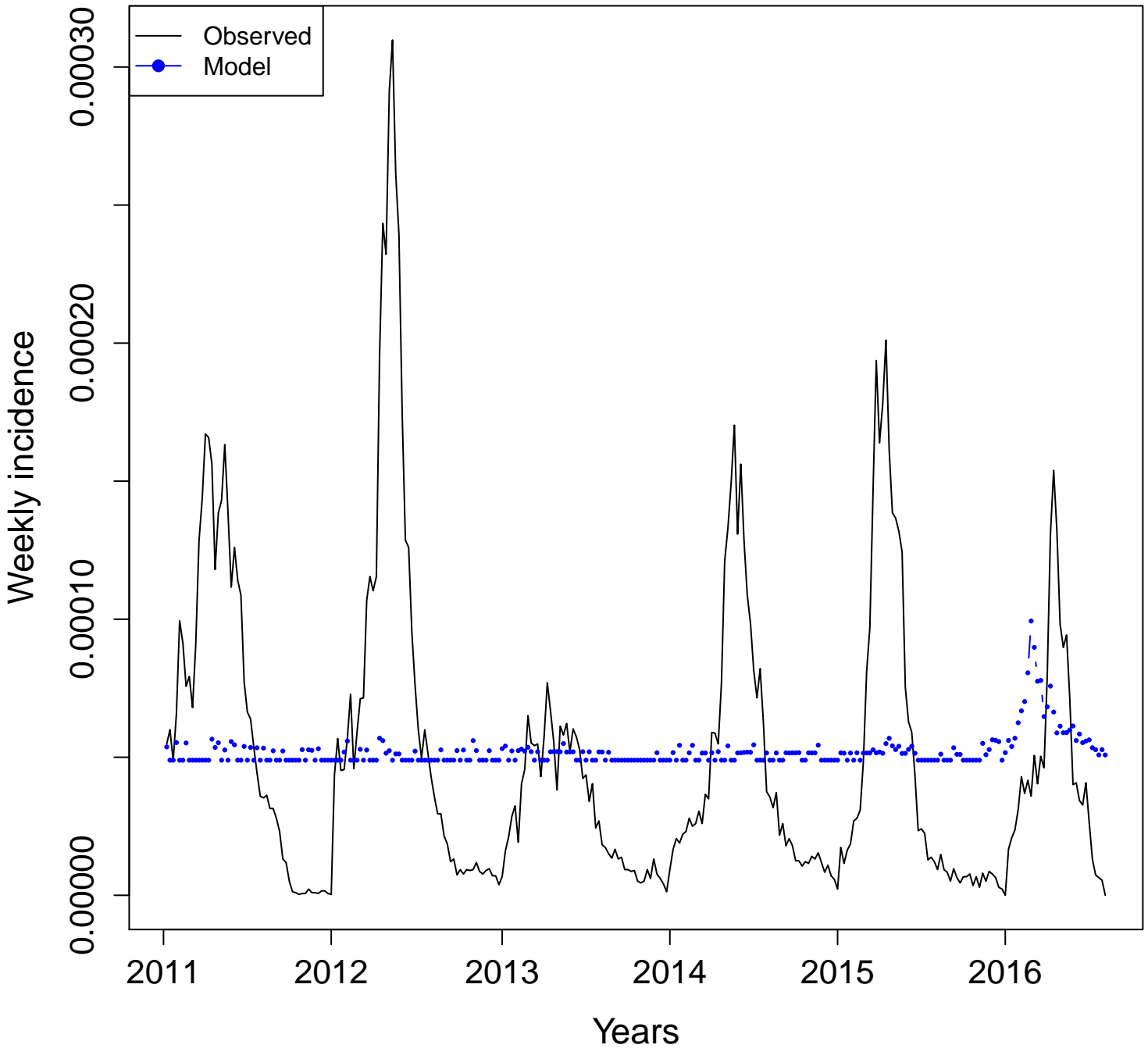
Individual terms
Adjusted R squared

Piauí (PI)

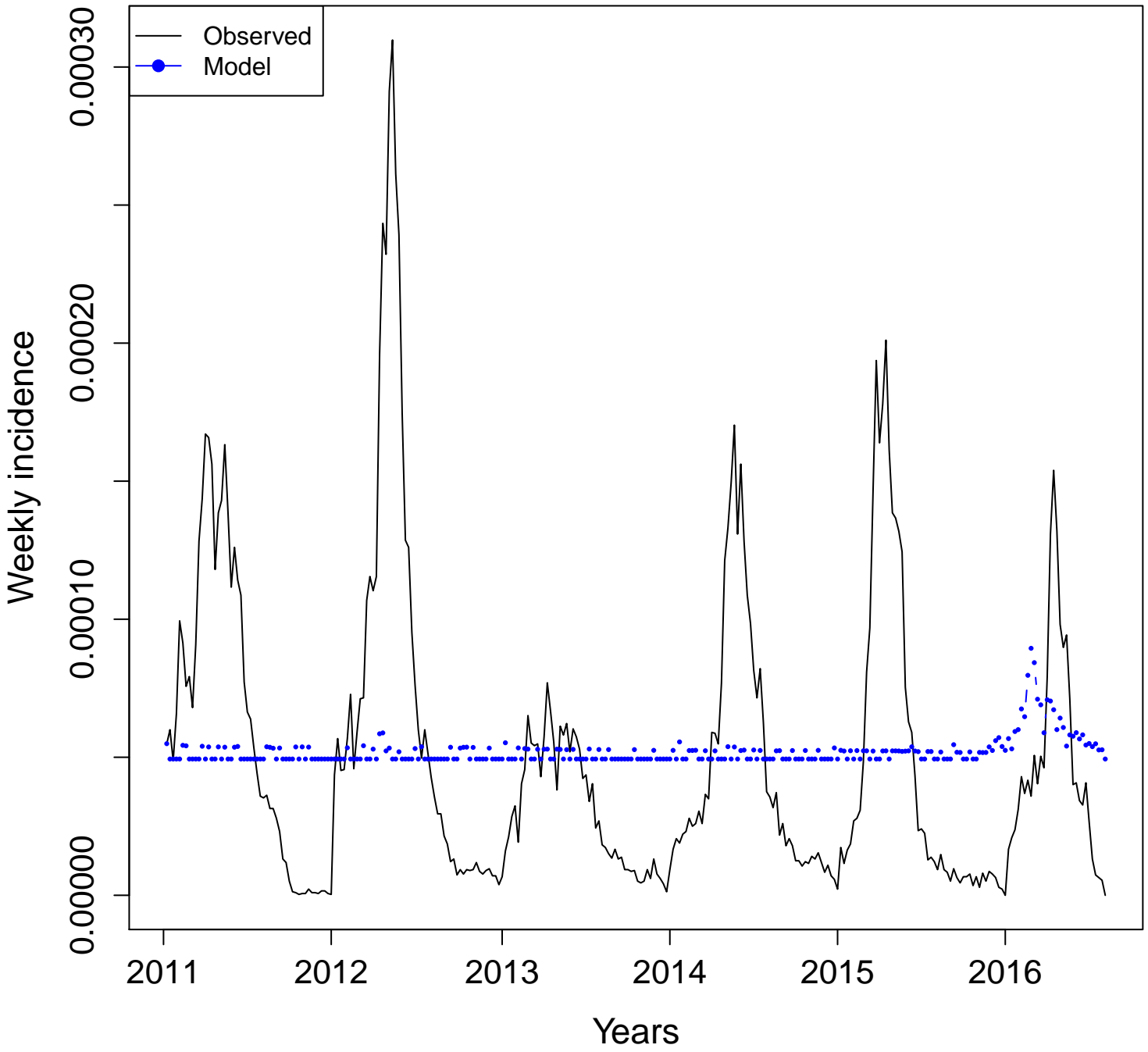
PI- aedes.aegypti
Adj. R squared = 0.0051



PI- aedes
Adj. R squared = 0.0074

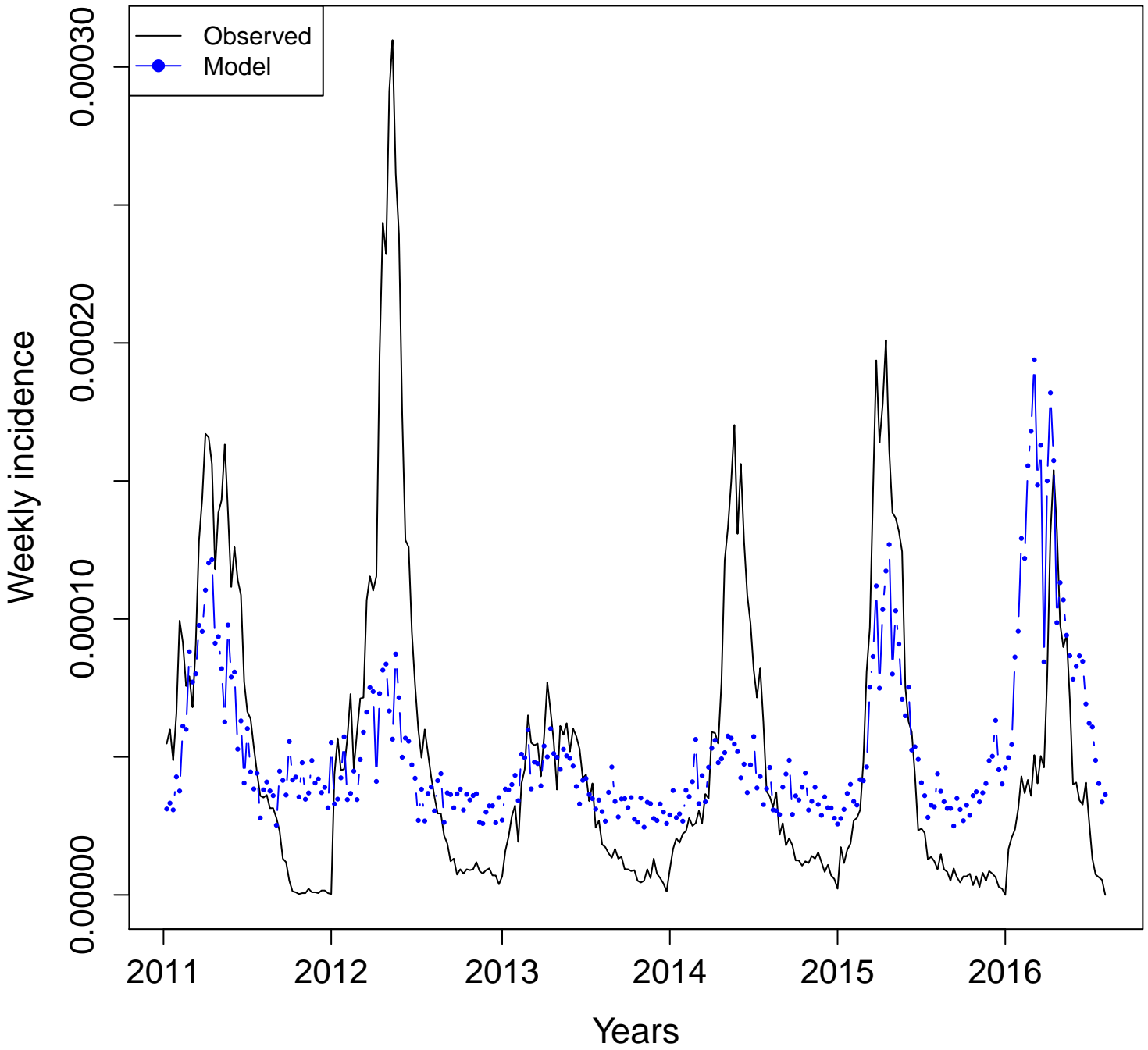


PI- aegypti
Adj. R squared = 0.0046

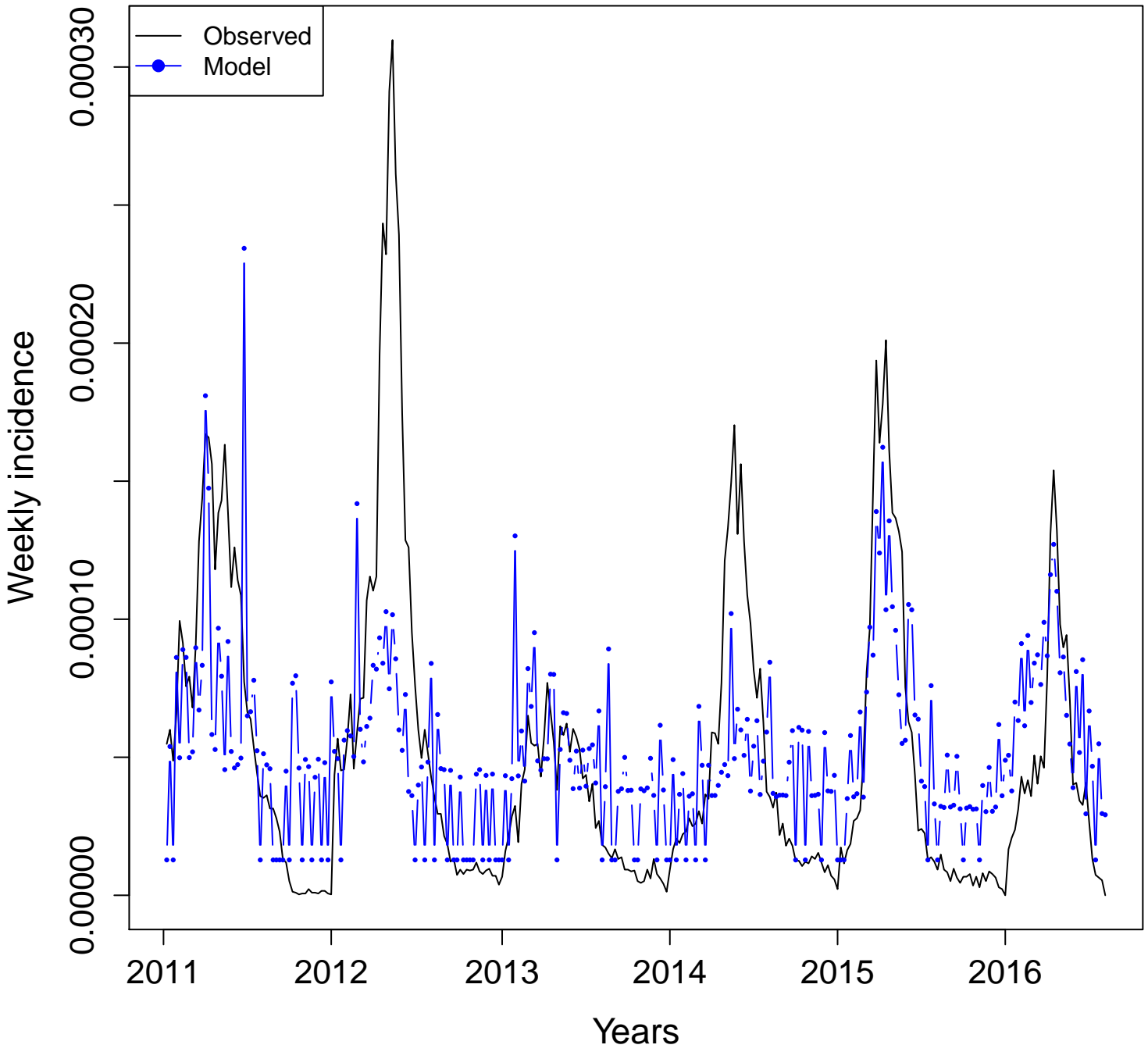


PI- dengue

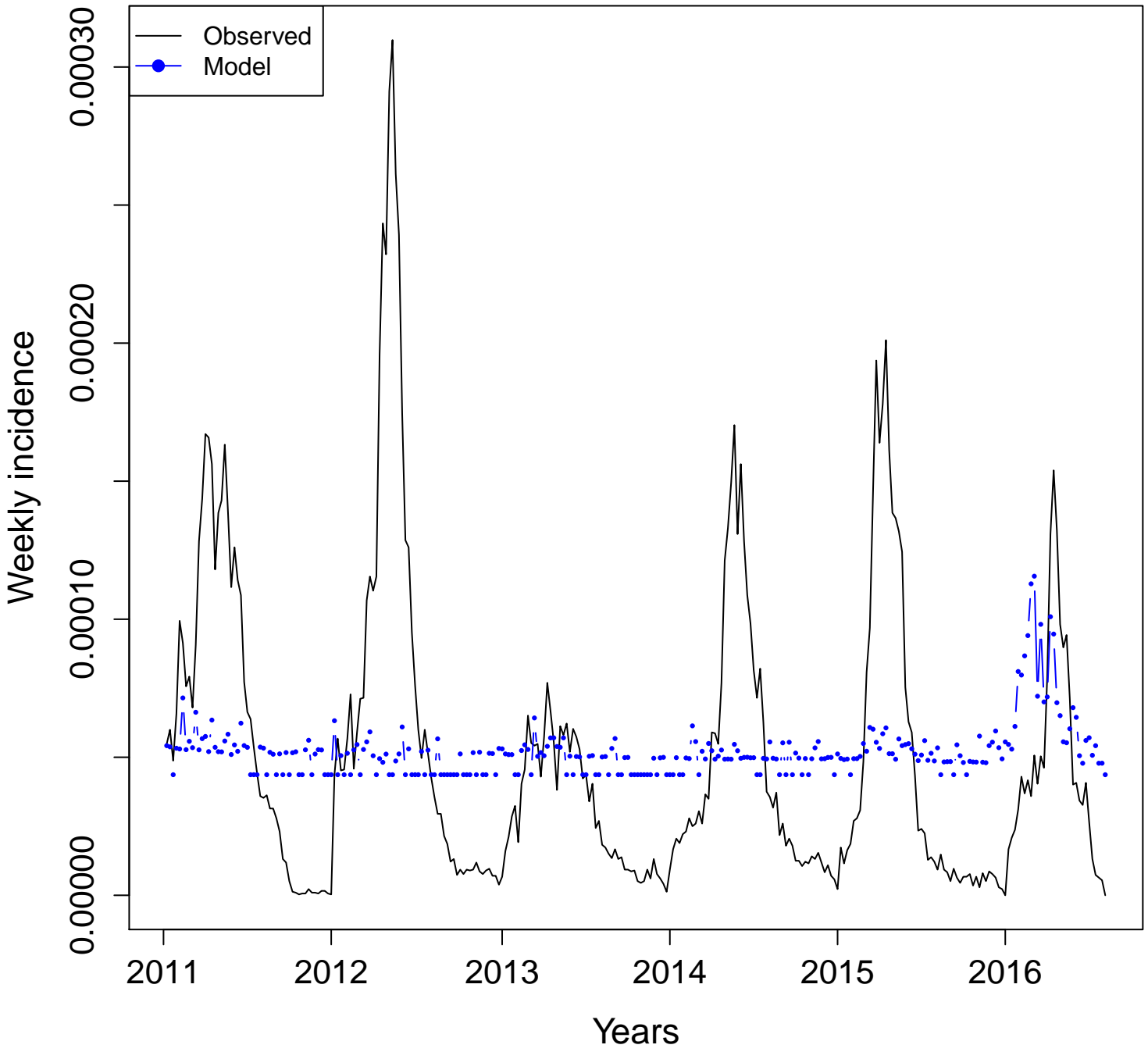
Adj. R squared = 0.269



PI- dengue.sintomas
Adj. R squared = 0.3158

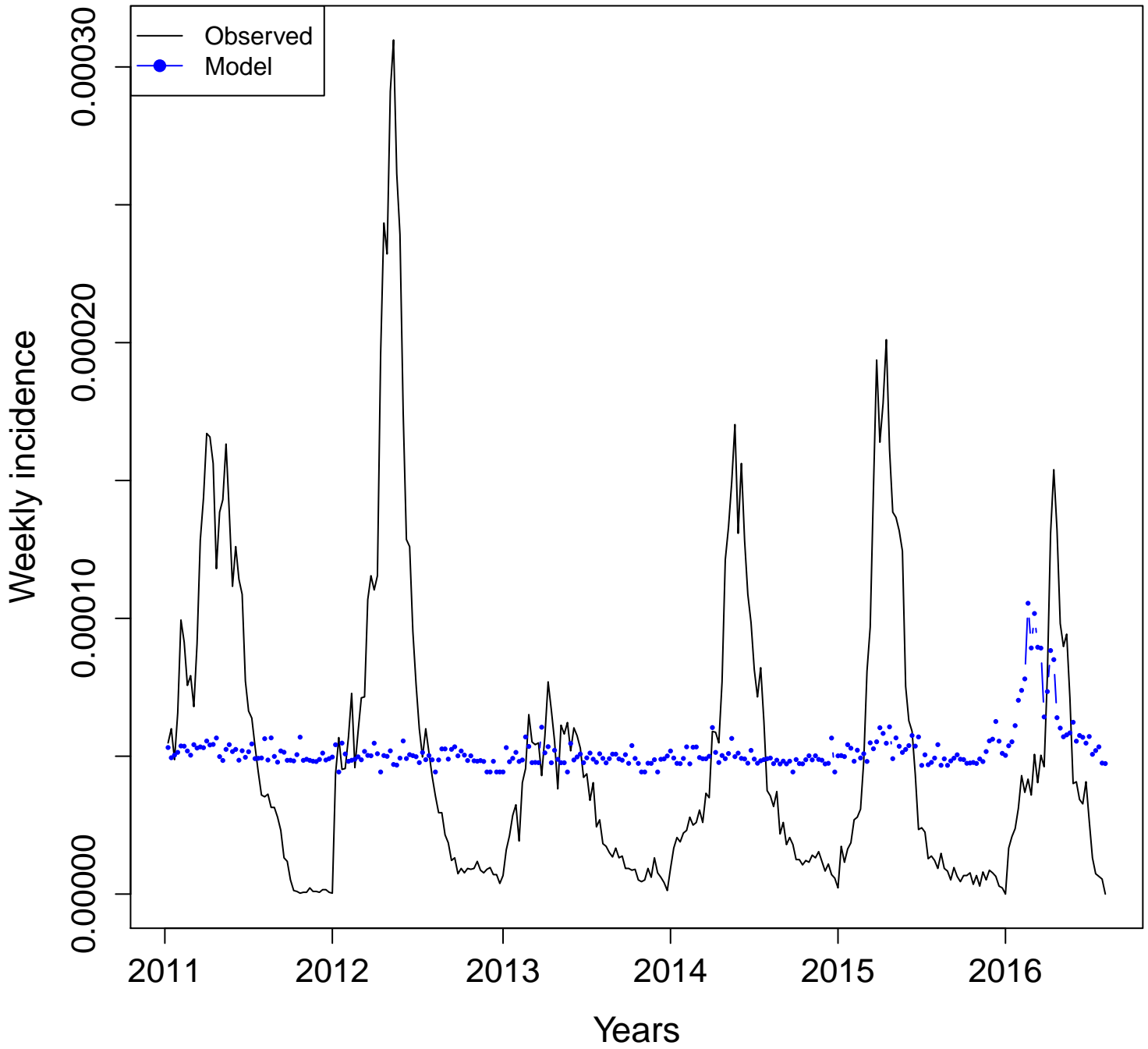


PI- mosquito.dengue
Adj. R squared = 0.0287

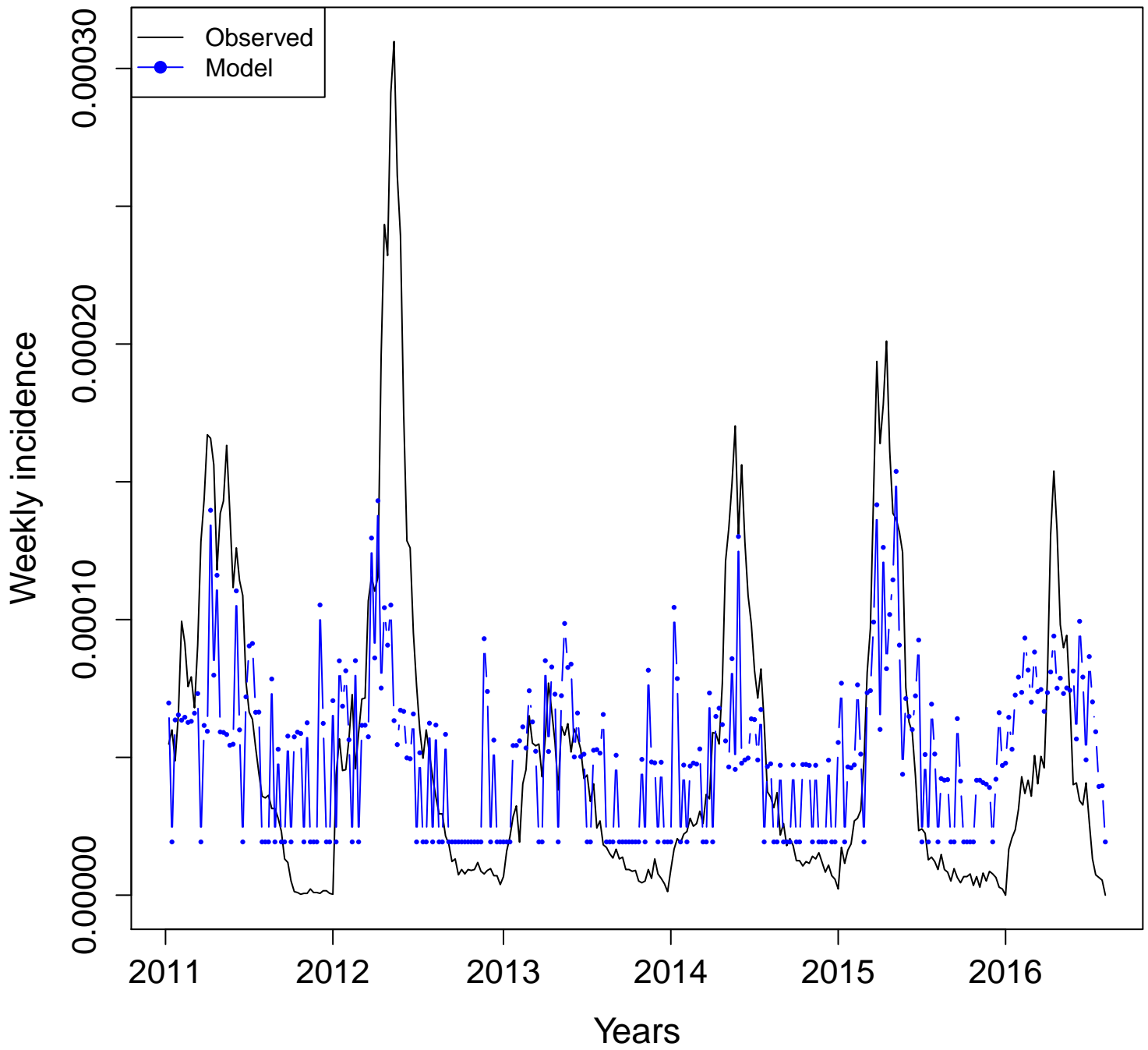


PI- mosquito

Adj. R squared = 0.0166



PI- sintomas.da.dengue
Adj. R squared = 0.2598



Paraná (PR)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

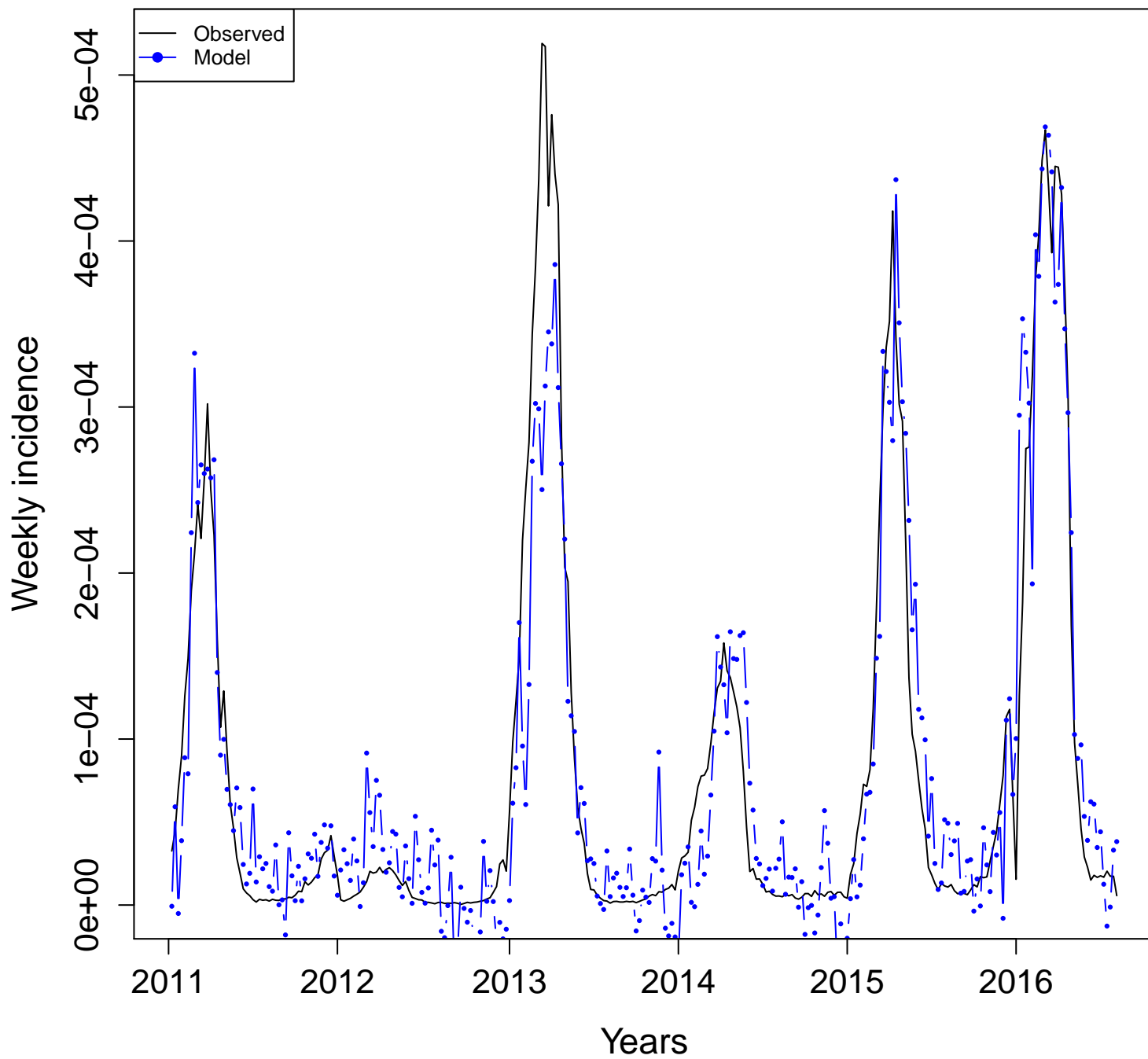
- **Combined terms:**
 - **All:** model with all the available terms. $n =$ number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. $n =$ number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

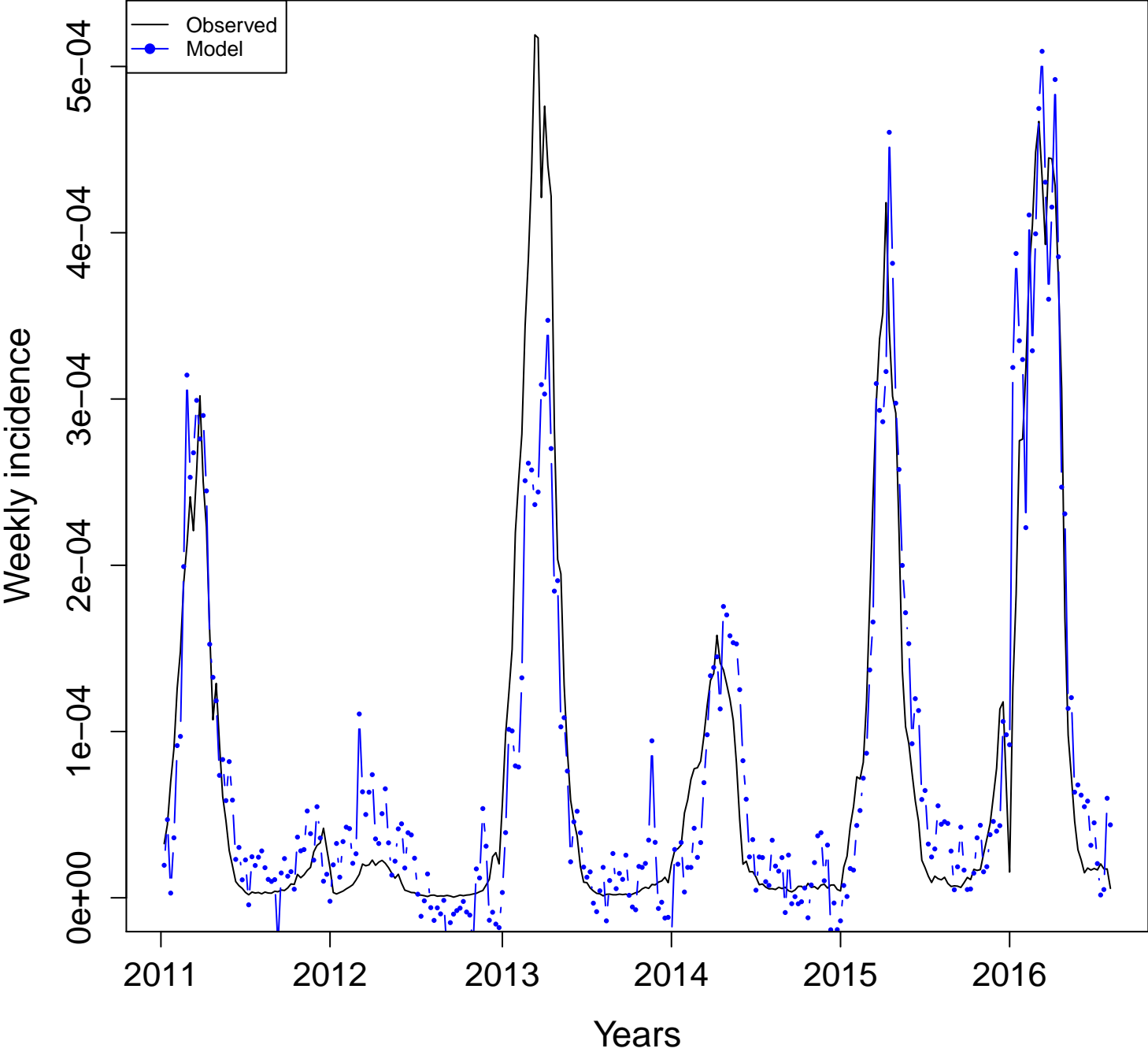
Paraná (PR)

All
(n = 12)

BR-PR
Adj. R squared = 0.8447

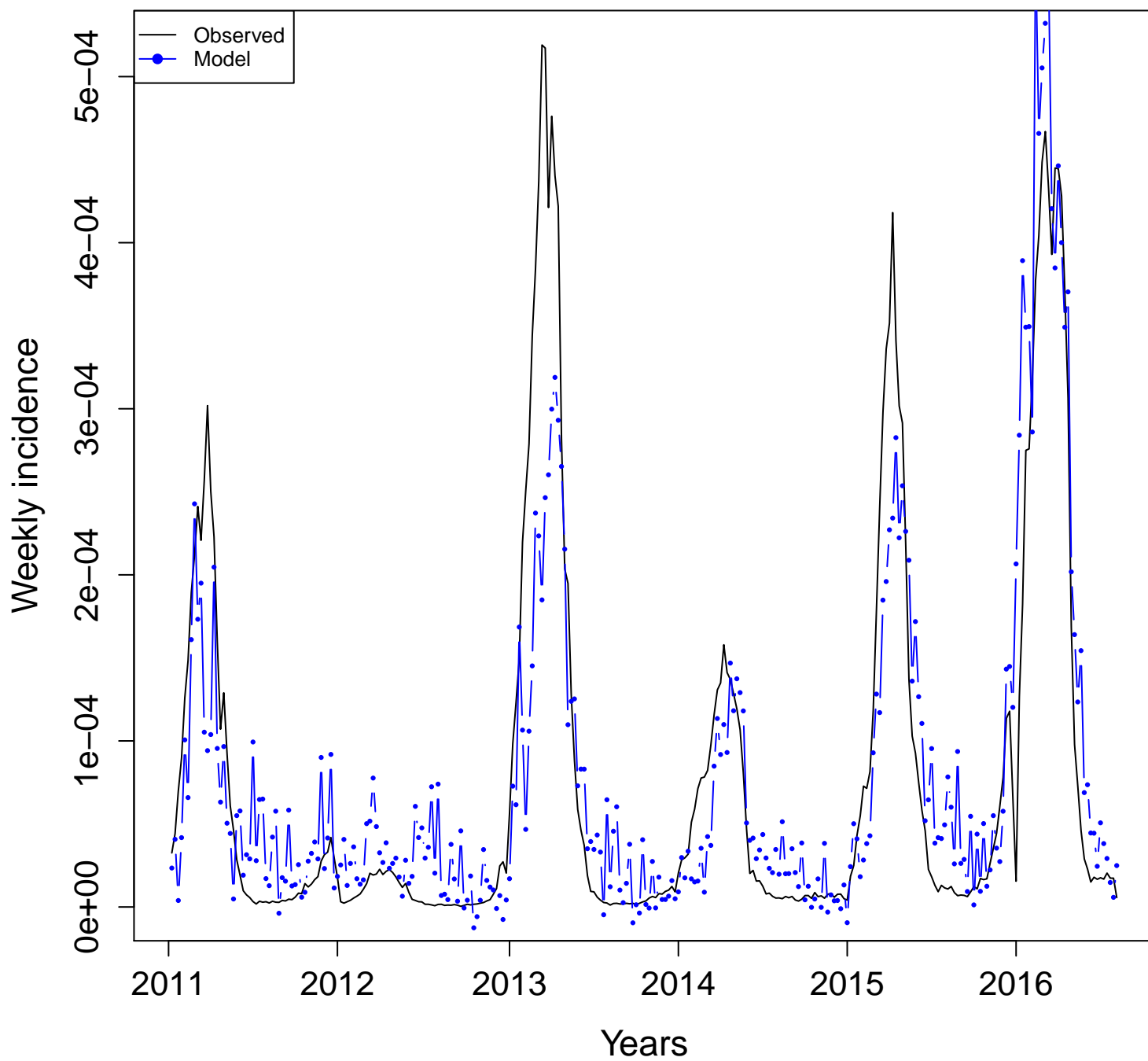


BR-PR
Adj. R squared = 0.8214



**Uncorrelated
(n = 4)**

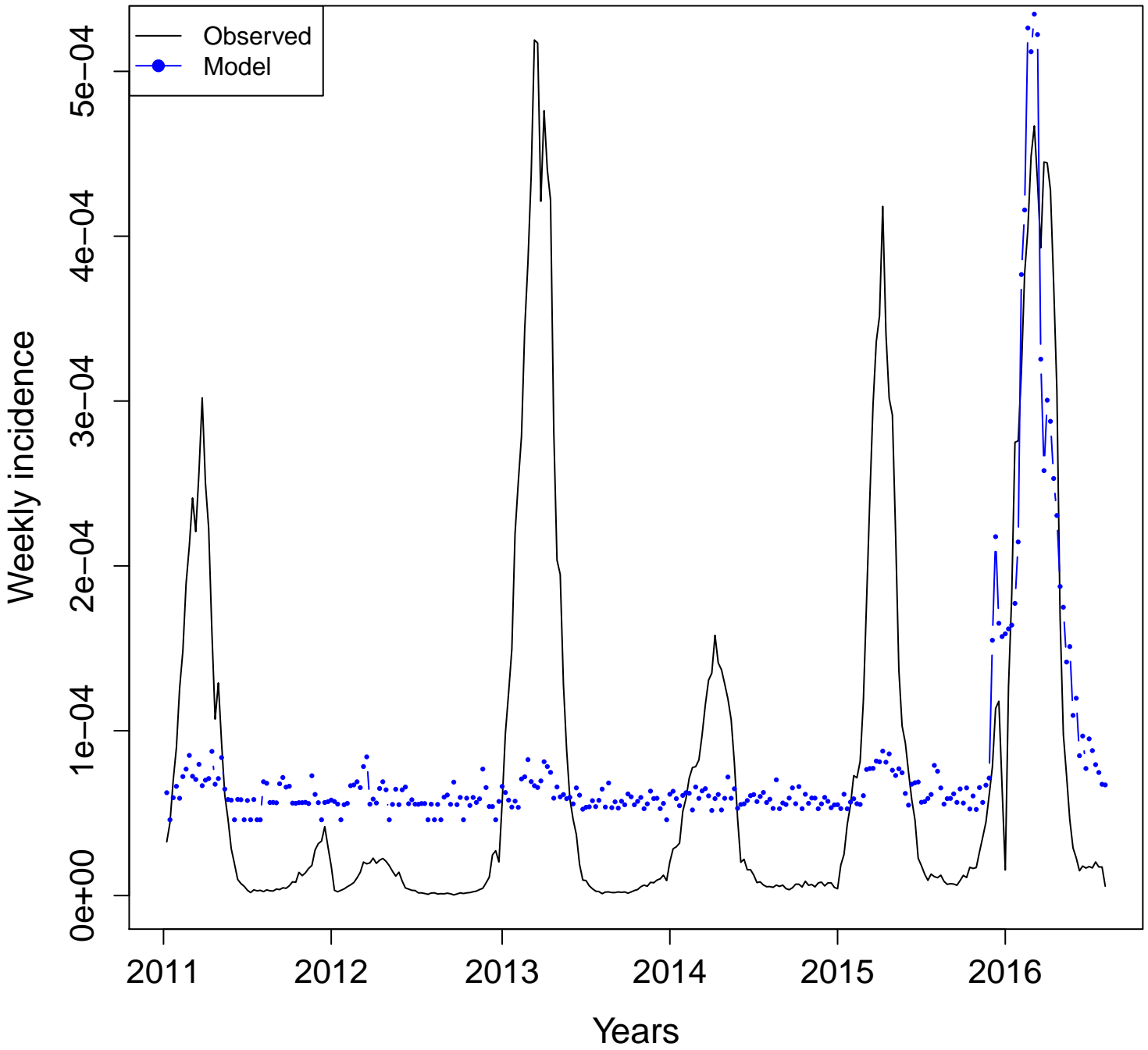
**BR-PR
Adj. R squared = 0.7408**



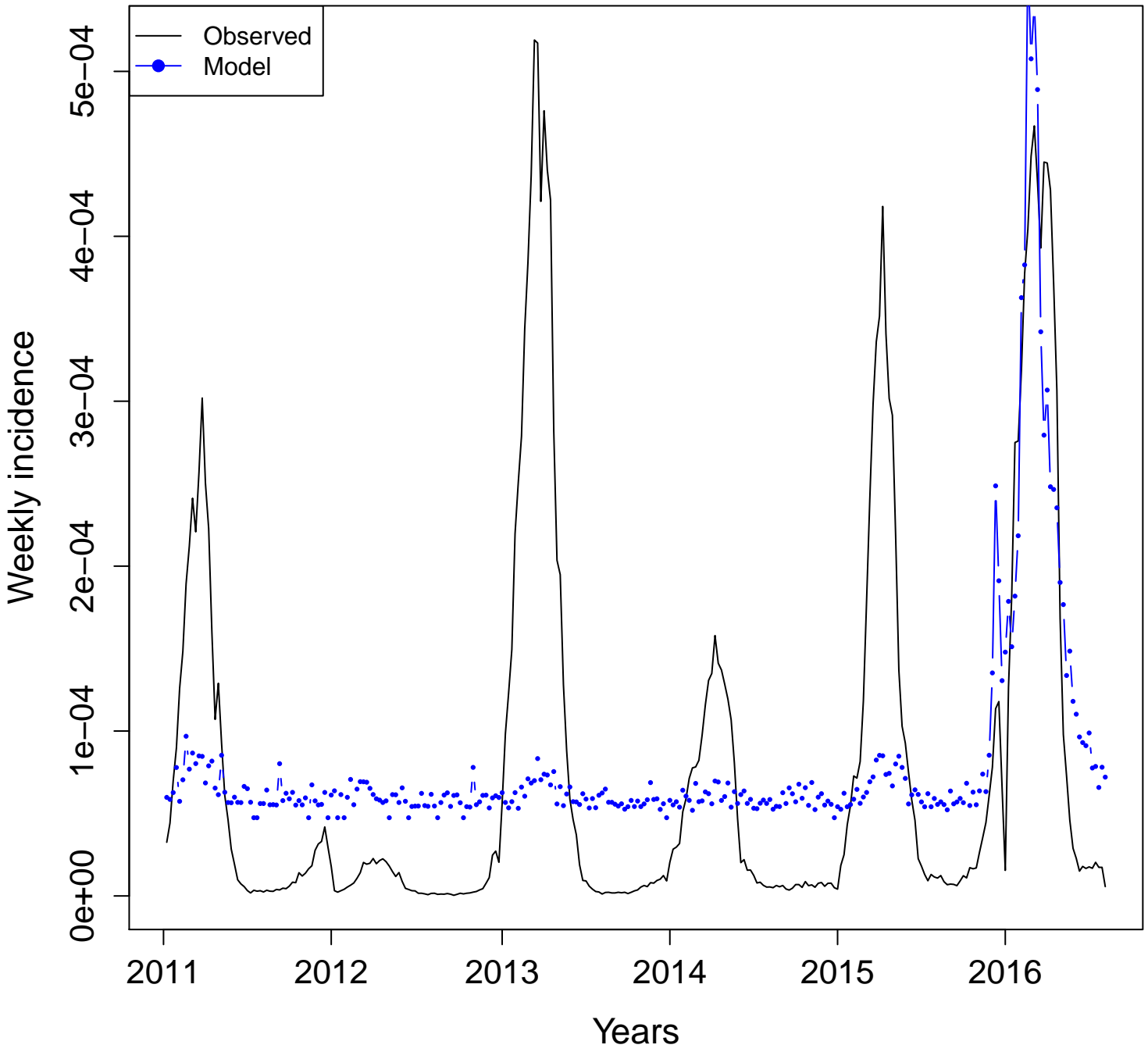
Individual terms
Adjusted R squared

Paraná (PR)

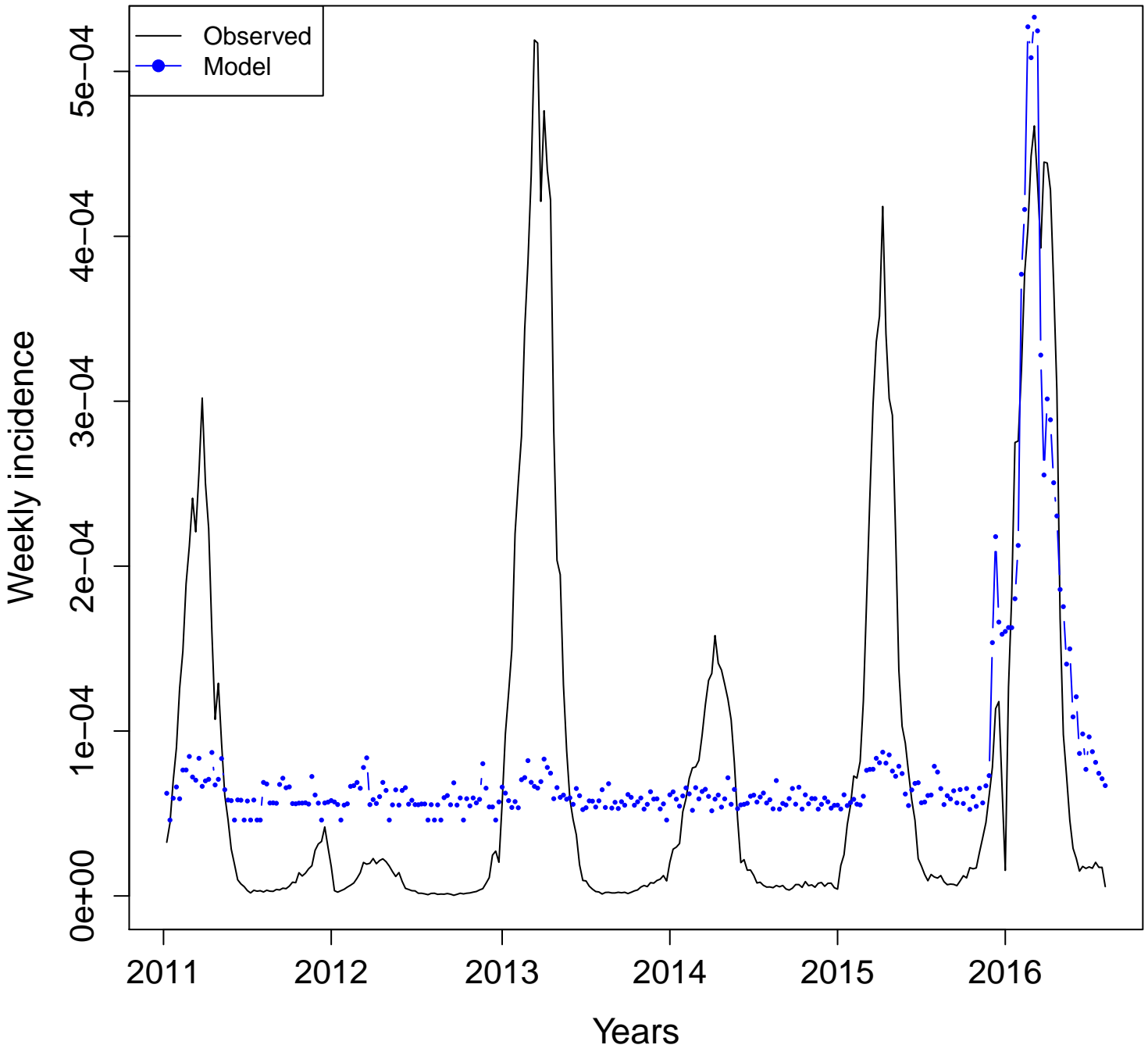
PR- aedes.aegypti
Adj. R squared = 0.3262



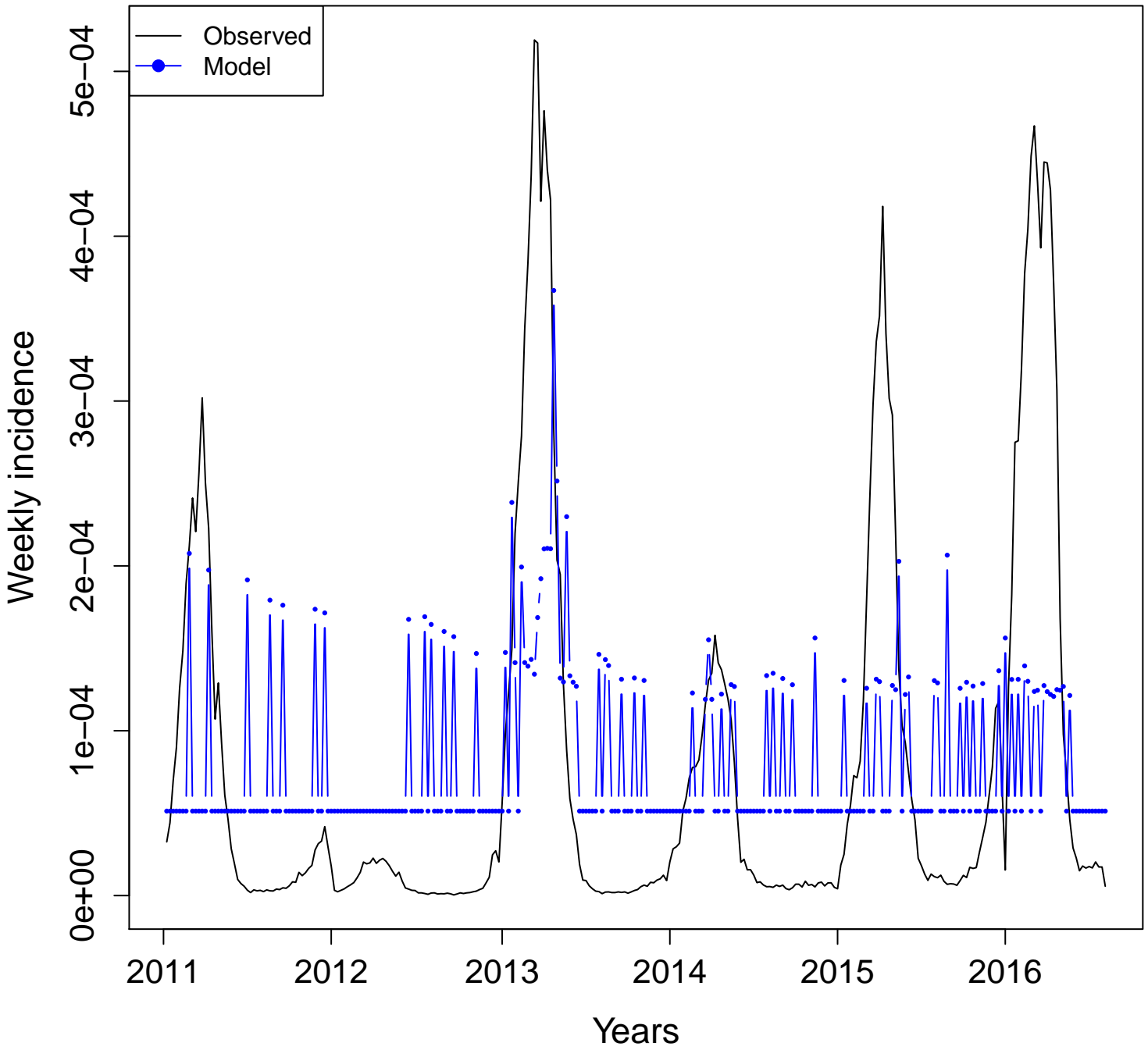
PR- aedes
Adj. R squared = 0.3257



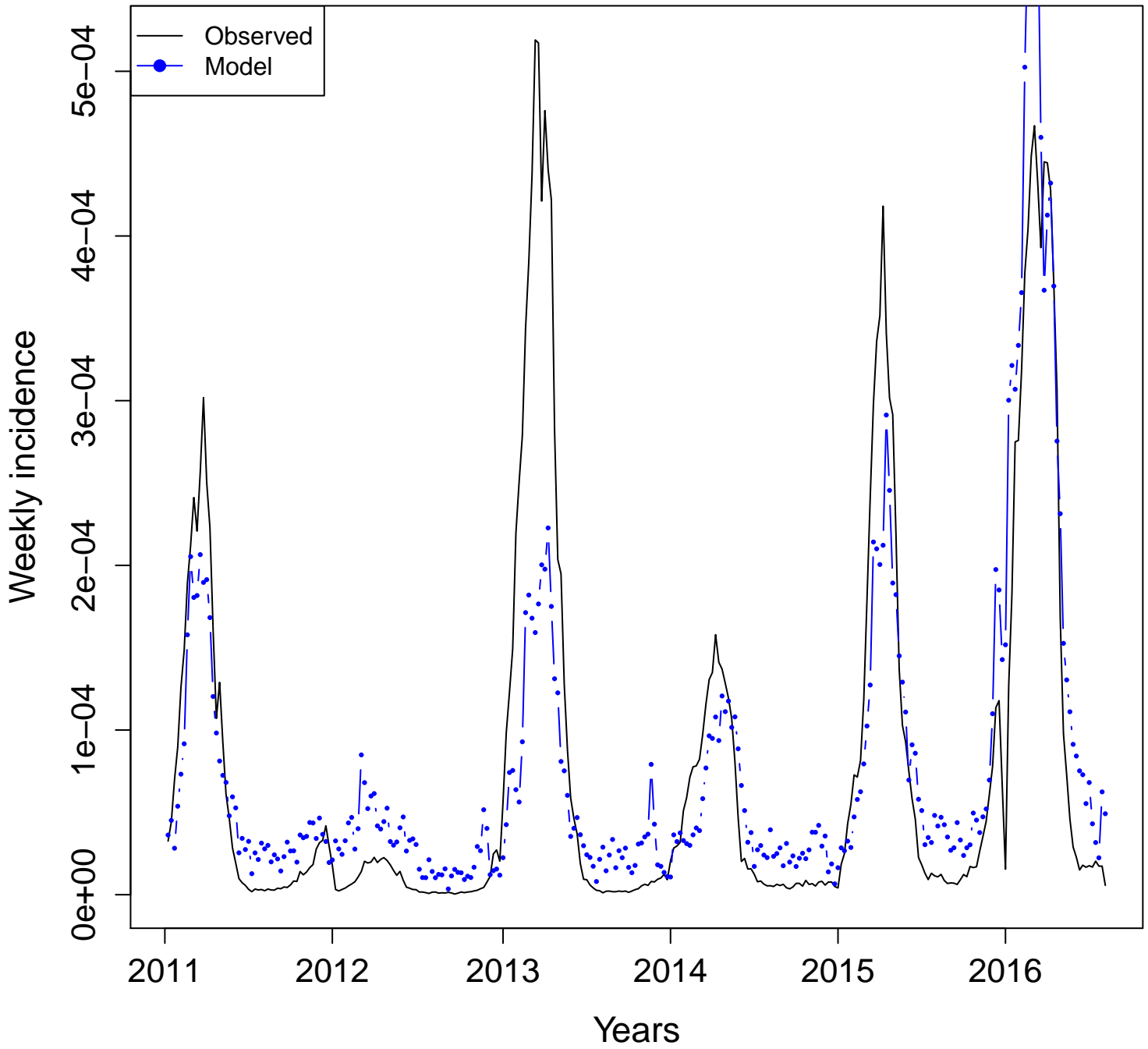
PR- aegypti
Adj. R squared = 0.3259



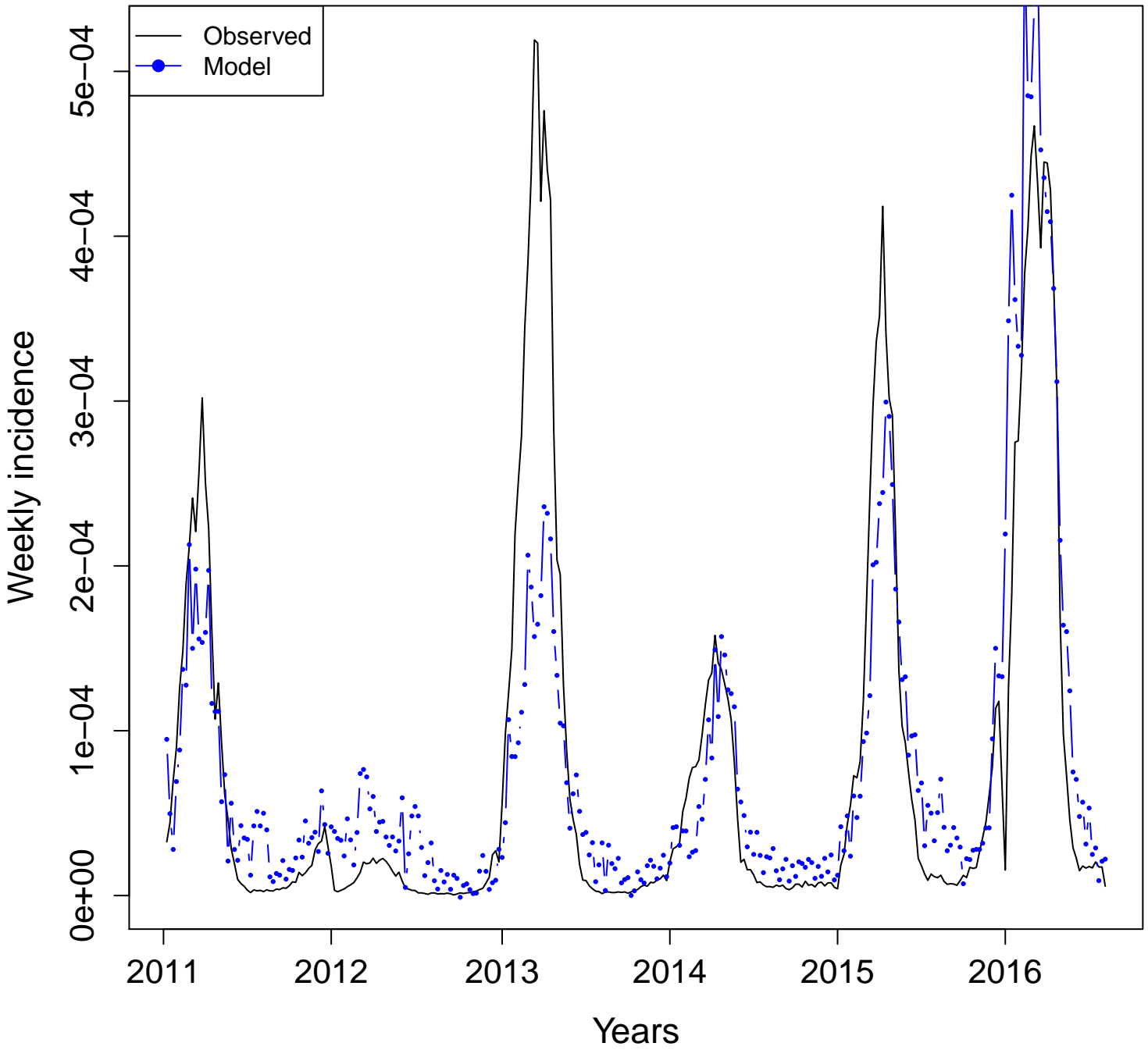
PR- dengue.fever
Adj. R squared = 0.1614



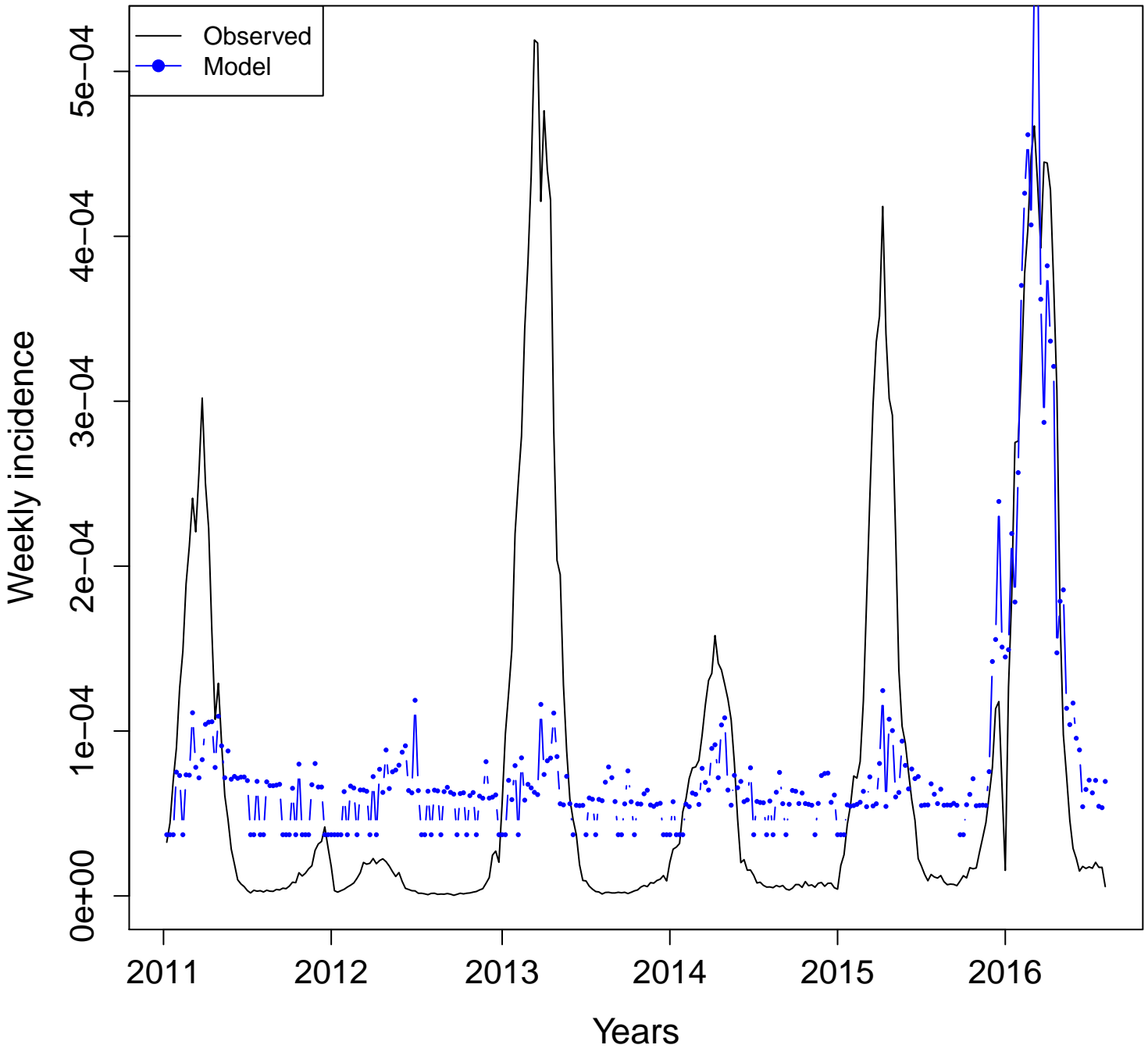
PR- dengue
Adj. R squared = 0.6981



PR- dengue.sintomas
Adj. R squared = 0.7134

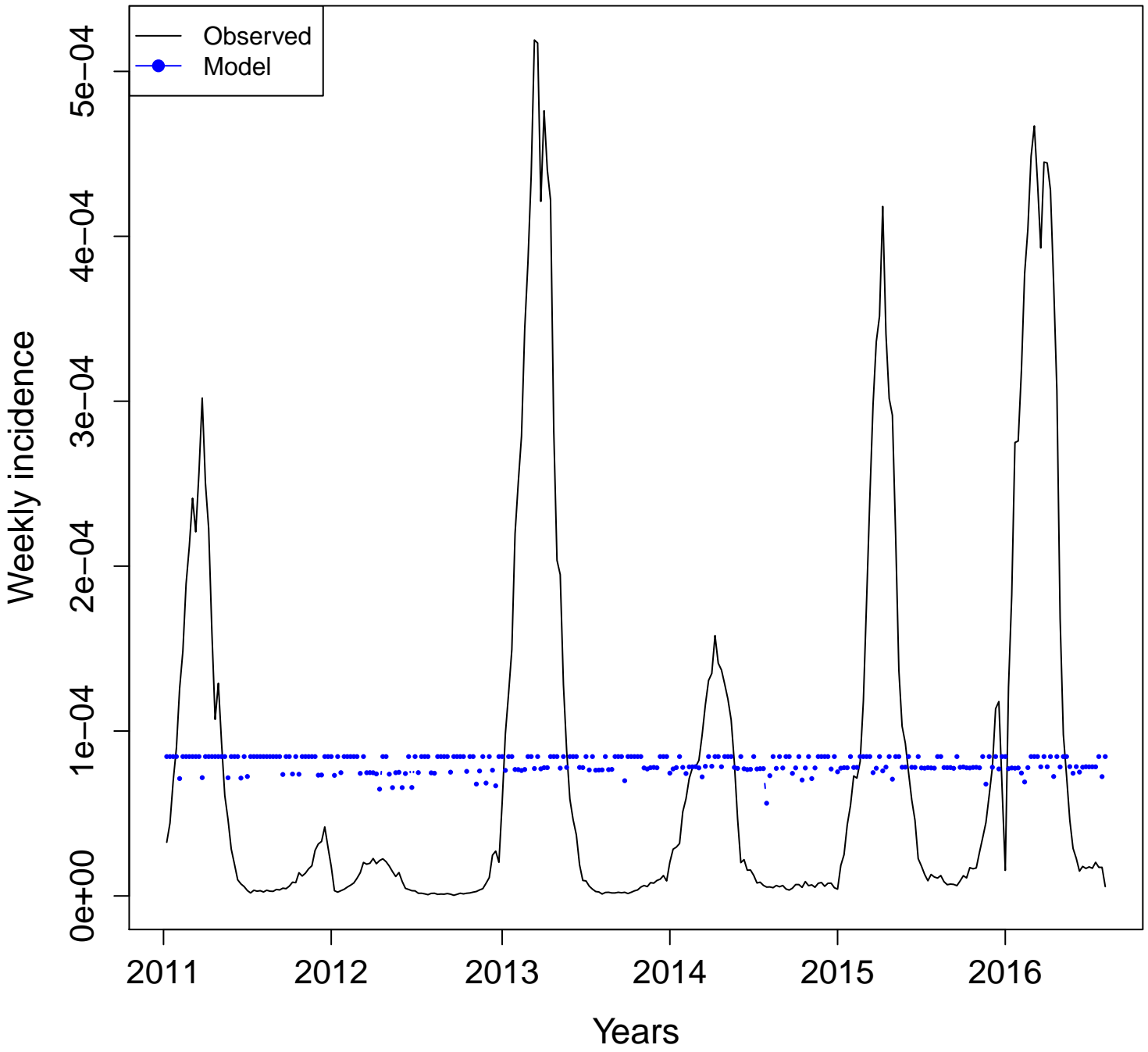


PR- dengue.virus
Adj. R squared = 0.3589

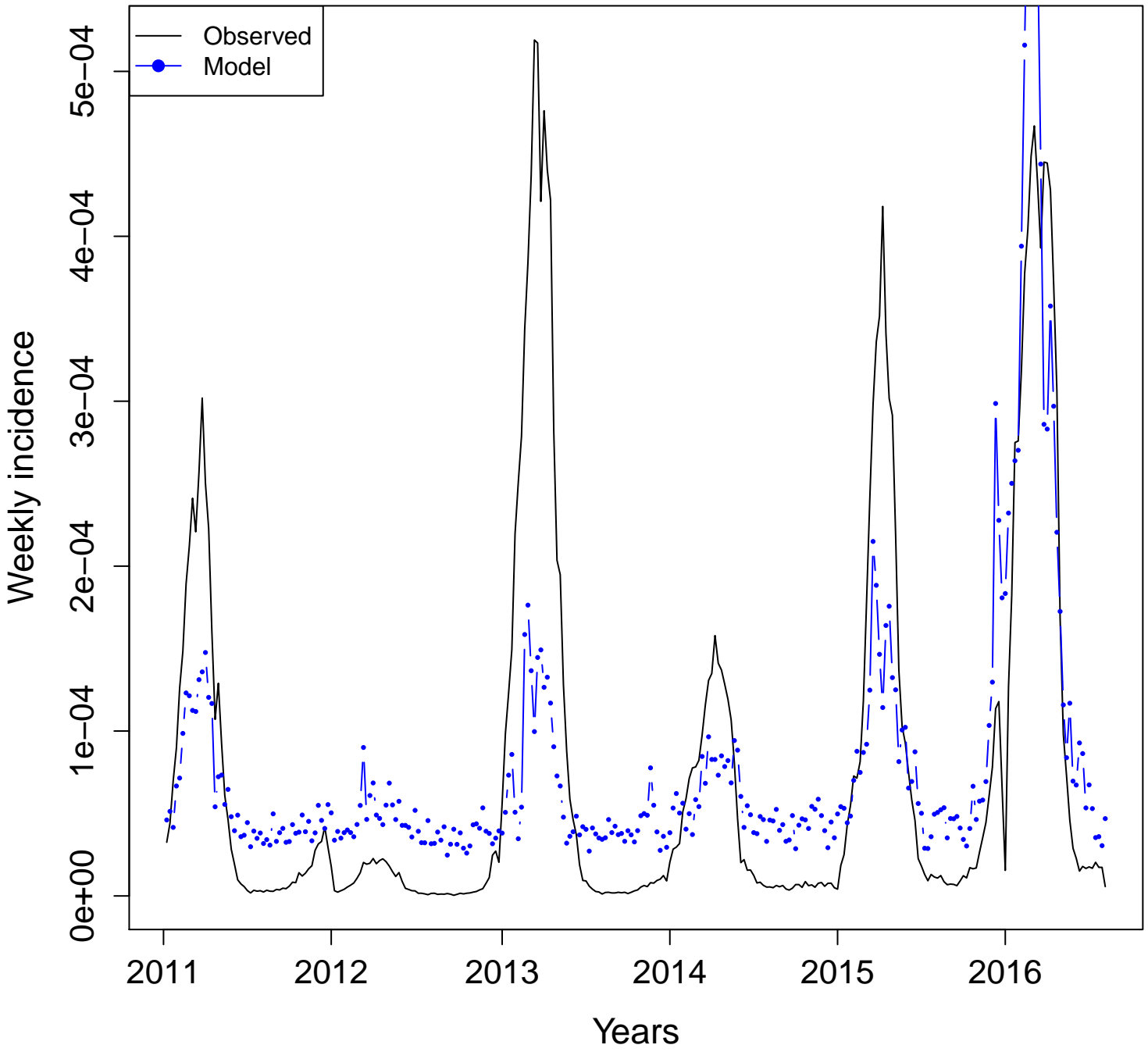


PR- DHF

Adj. R squared = -0.0017

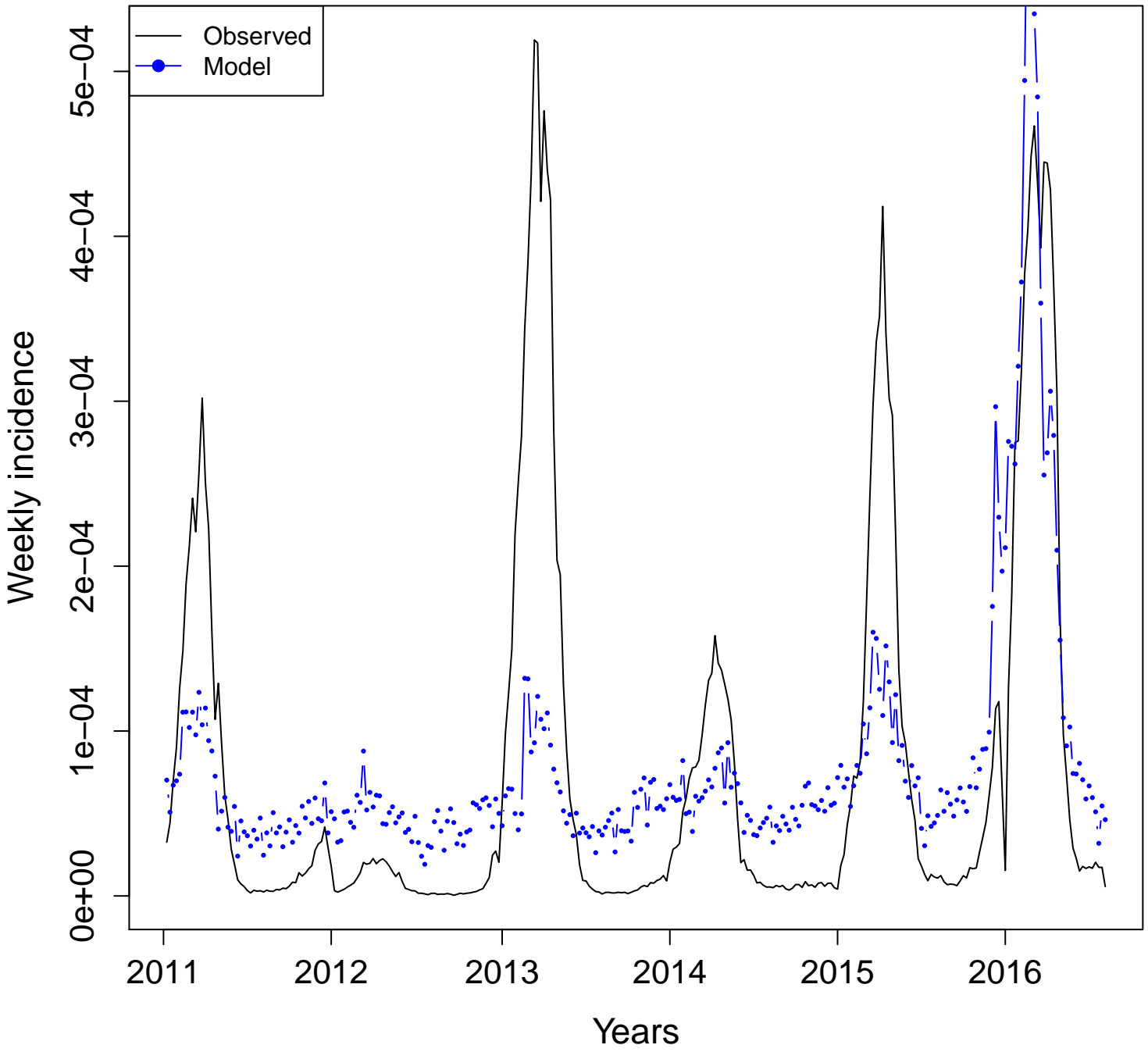


PR- mosquito.dengue
Adj. R squared = 0.5349



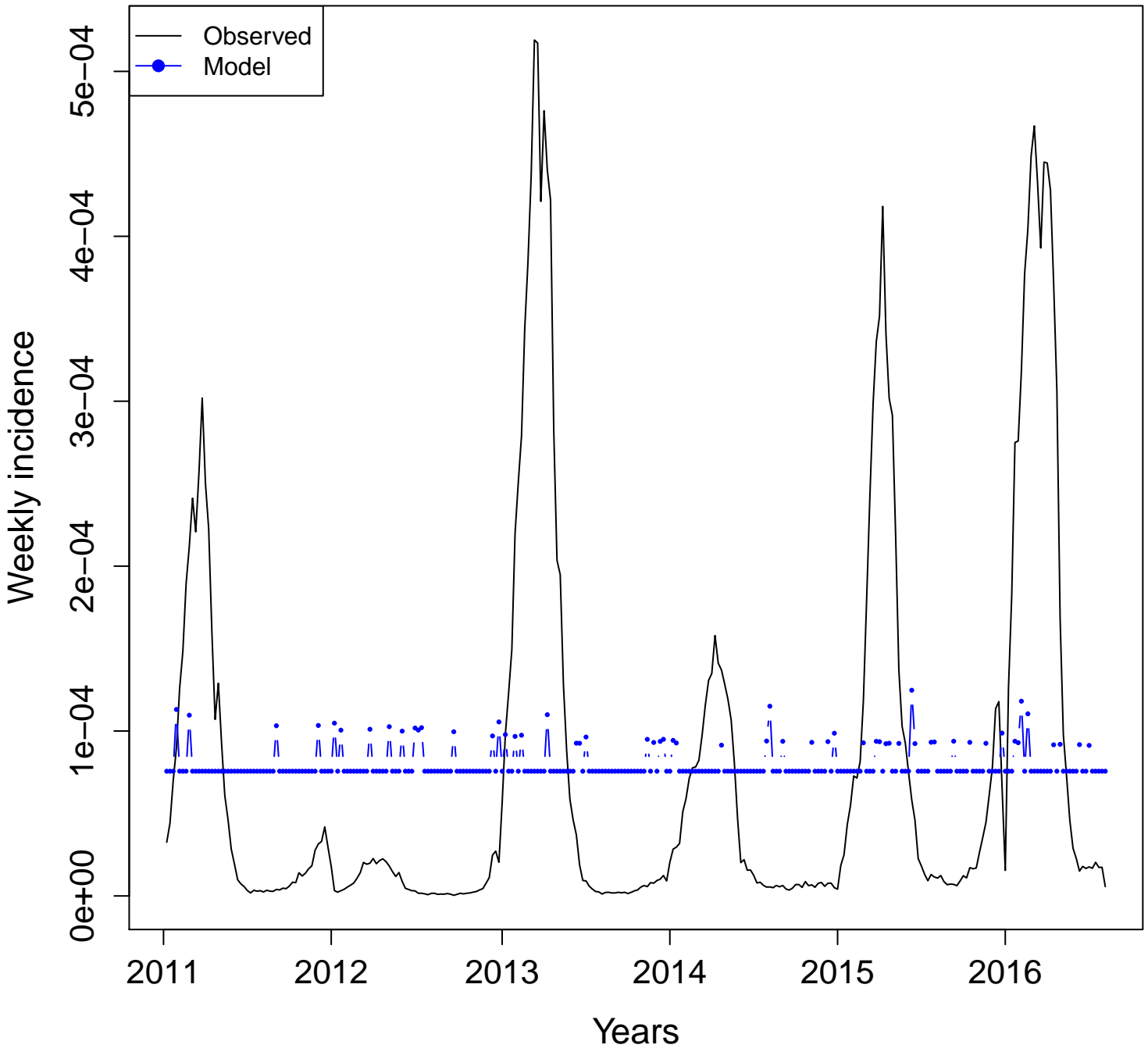
PR- mosquito

Adj. R squared = 0.4472

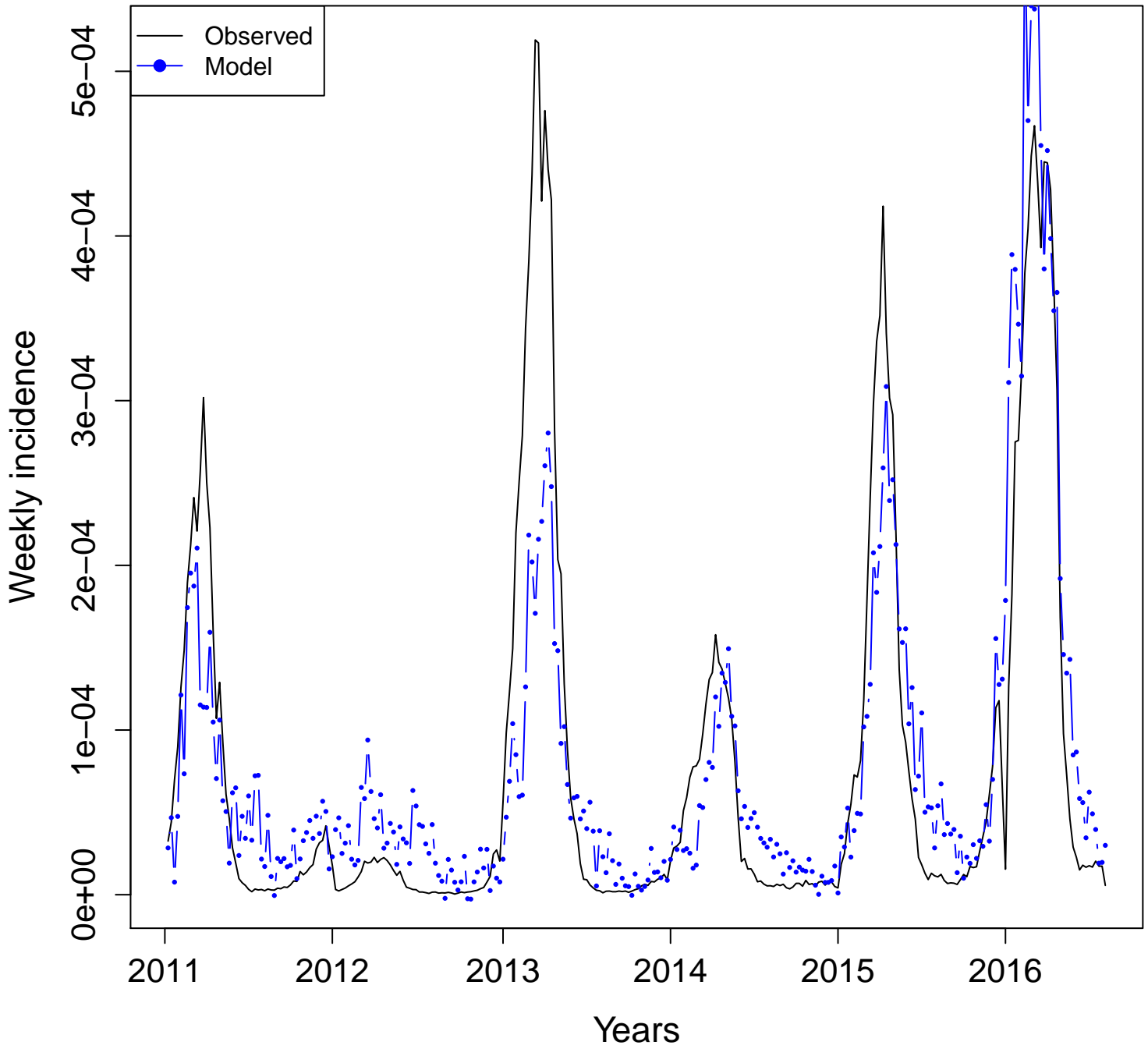


PR- mosquitoes

Adj. R squared = 0.0025



PR- sintomas.da.dengue
Adj. R squared = 0.7187



Rio de Janeiro (RJ)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

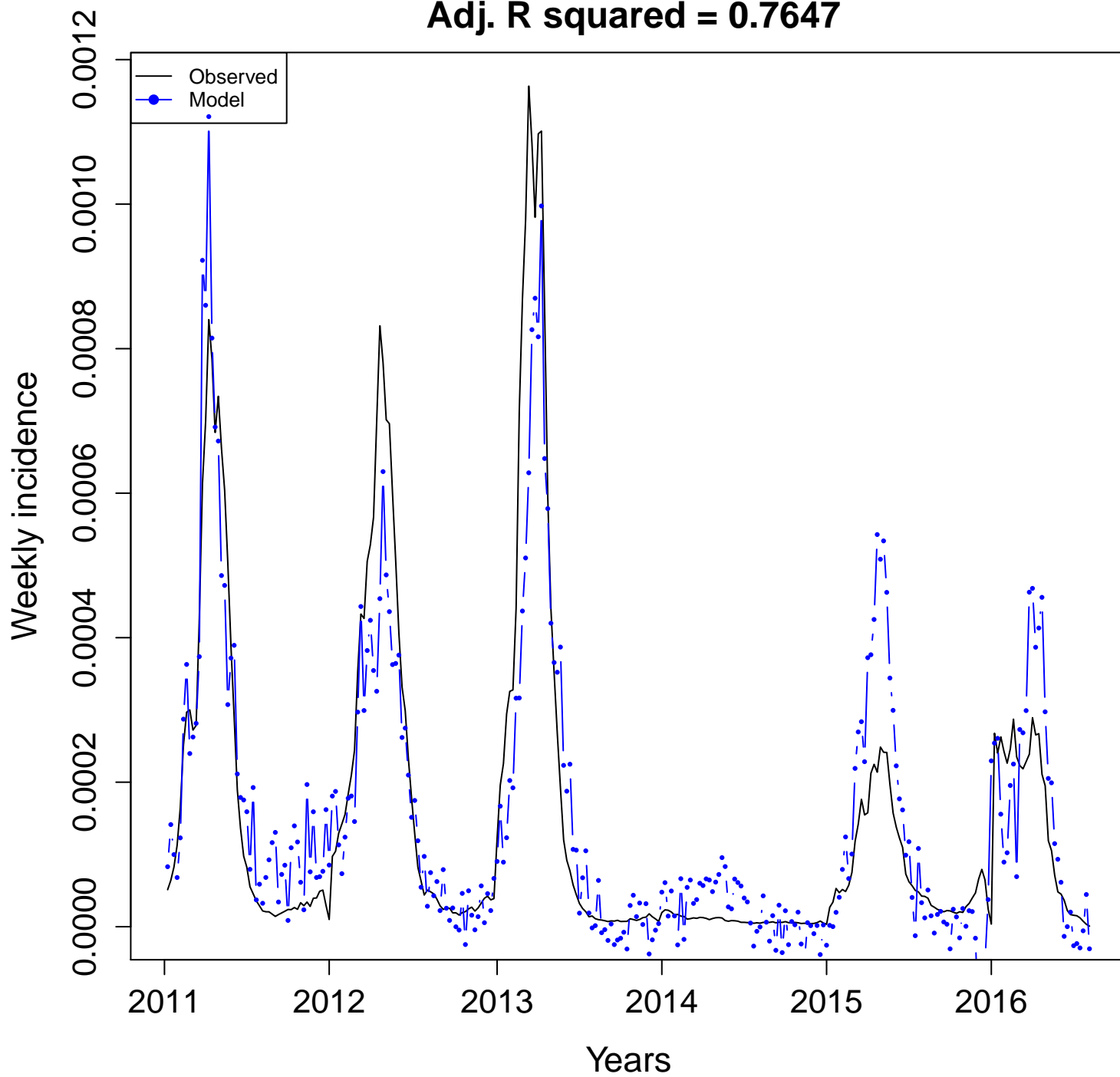
- **Combined terms:**
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 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. $n =$ number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

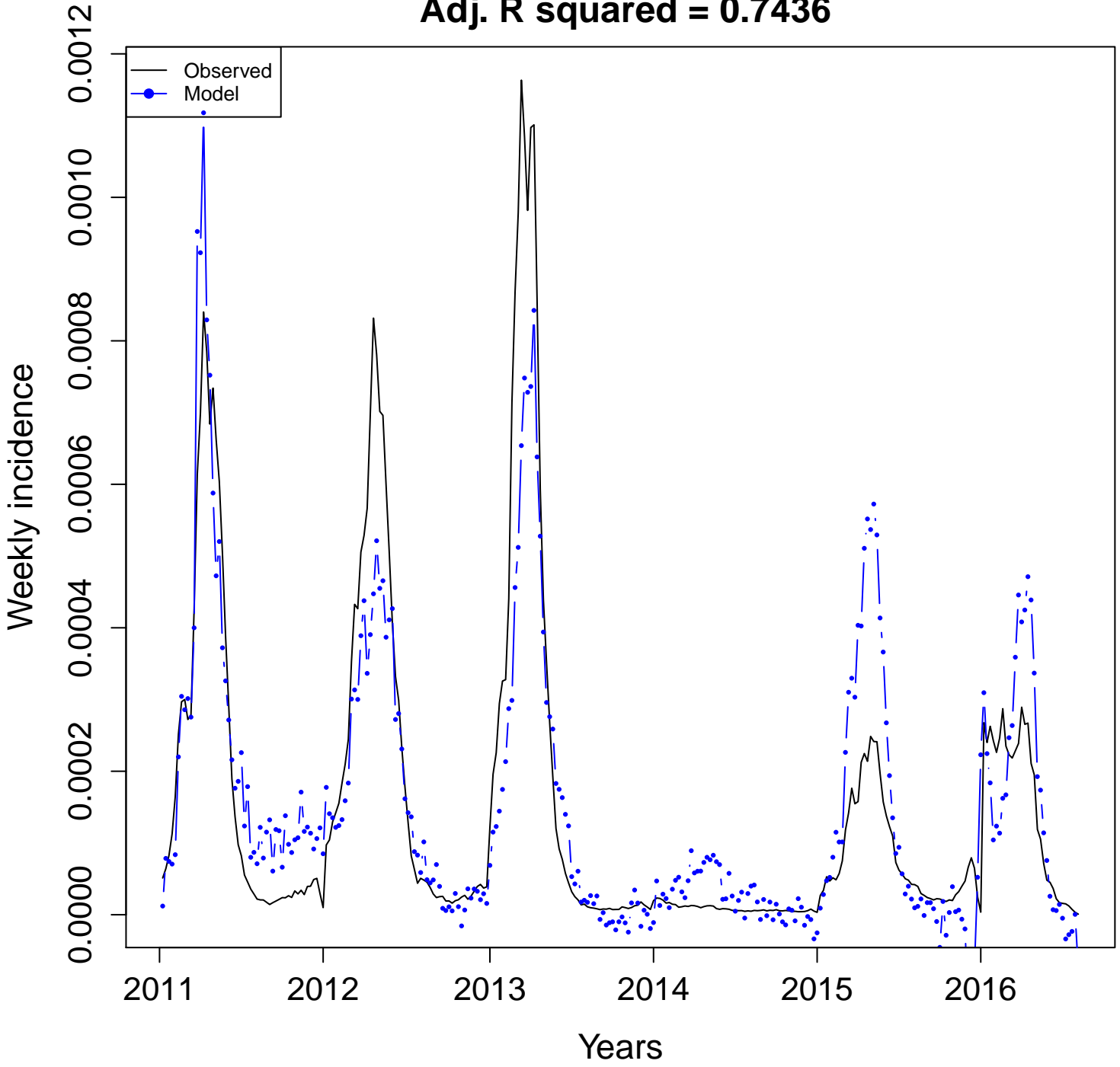
Rio de Janeiro (RJ)

All
(n = 12)

BR-RJ
Adj. R squared = 0.7647

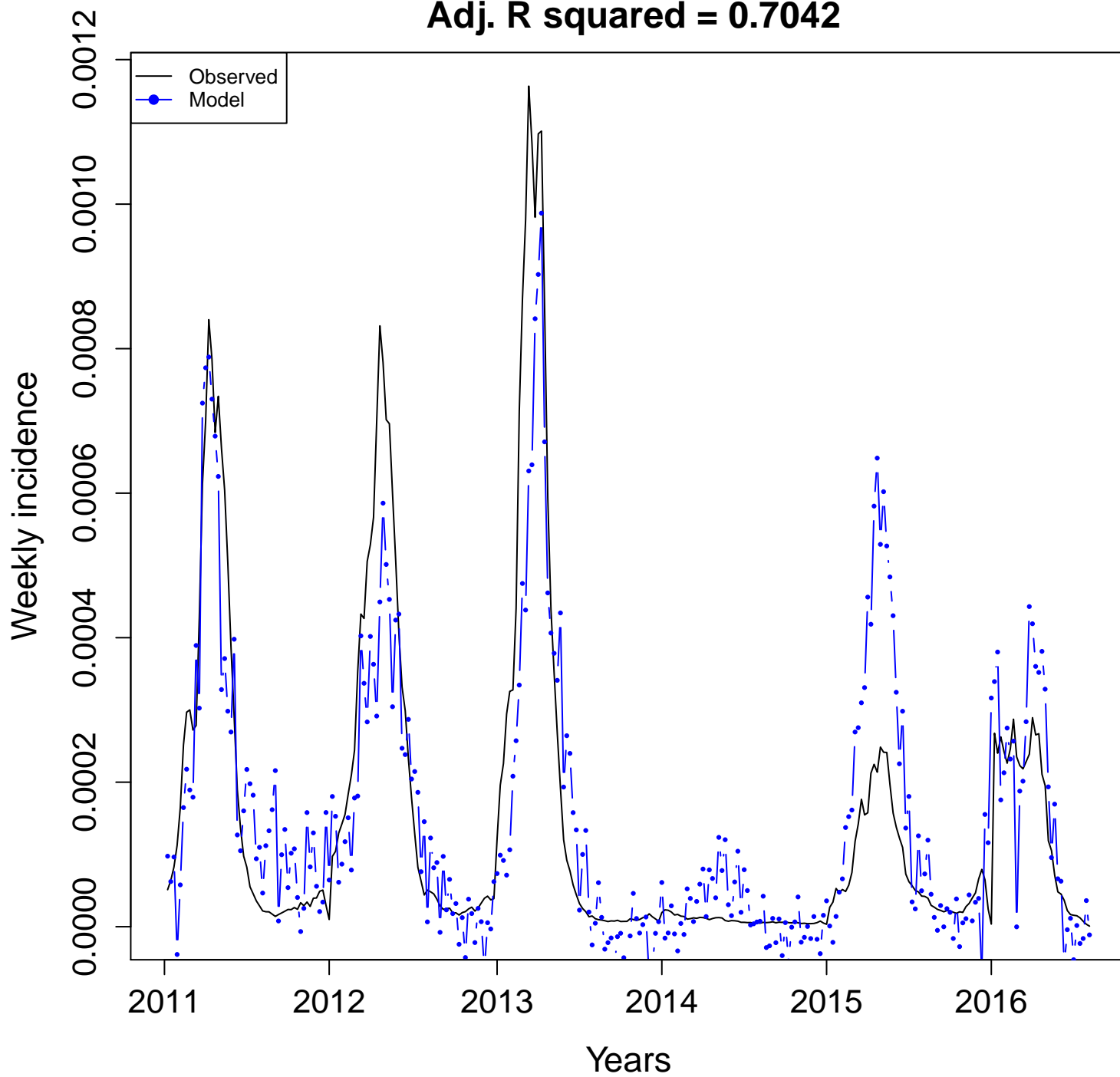


BR-RJ
Adj. R squared = 0.7436



**Uncorrelated
(n = 5)**

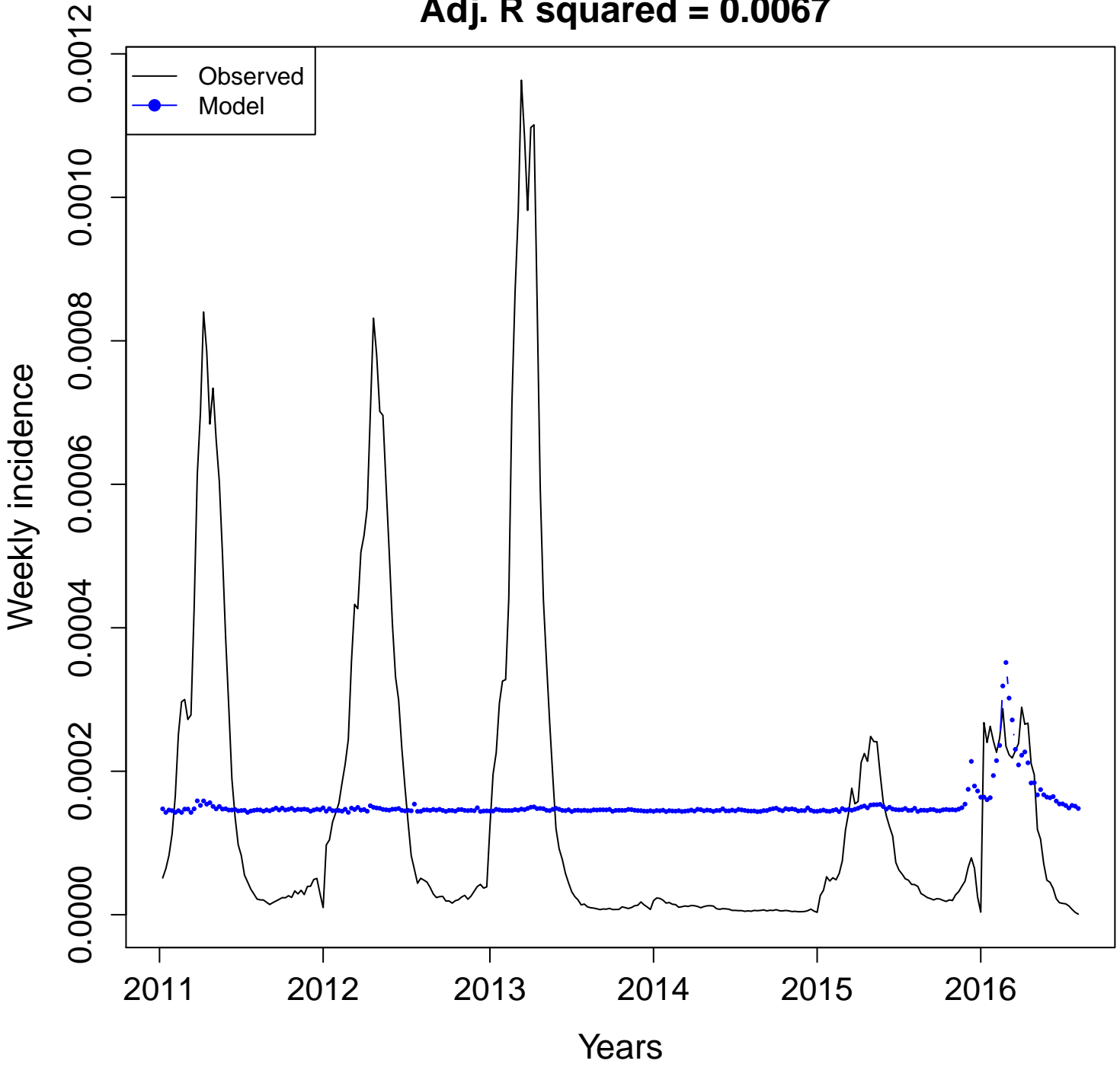
**BR-RJ
Adj. R squared = 0.7042**



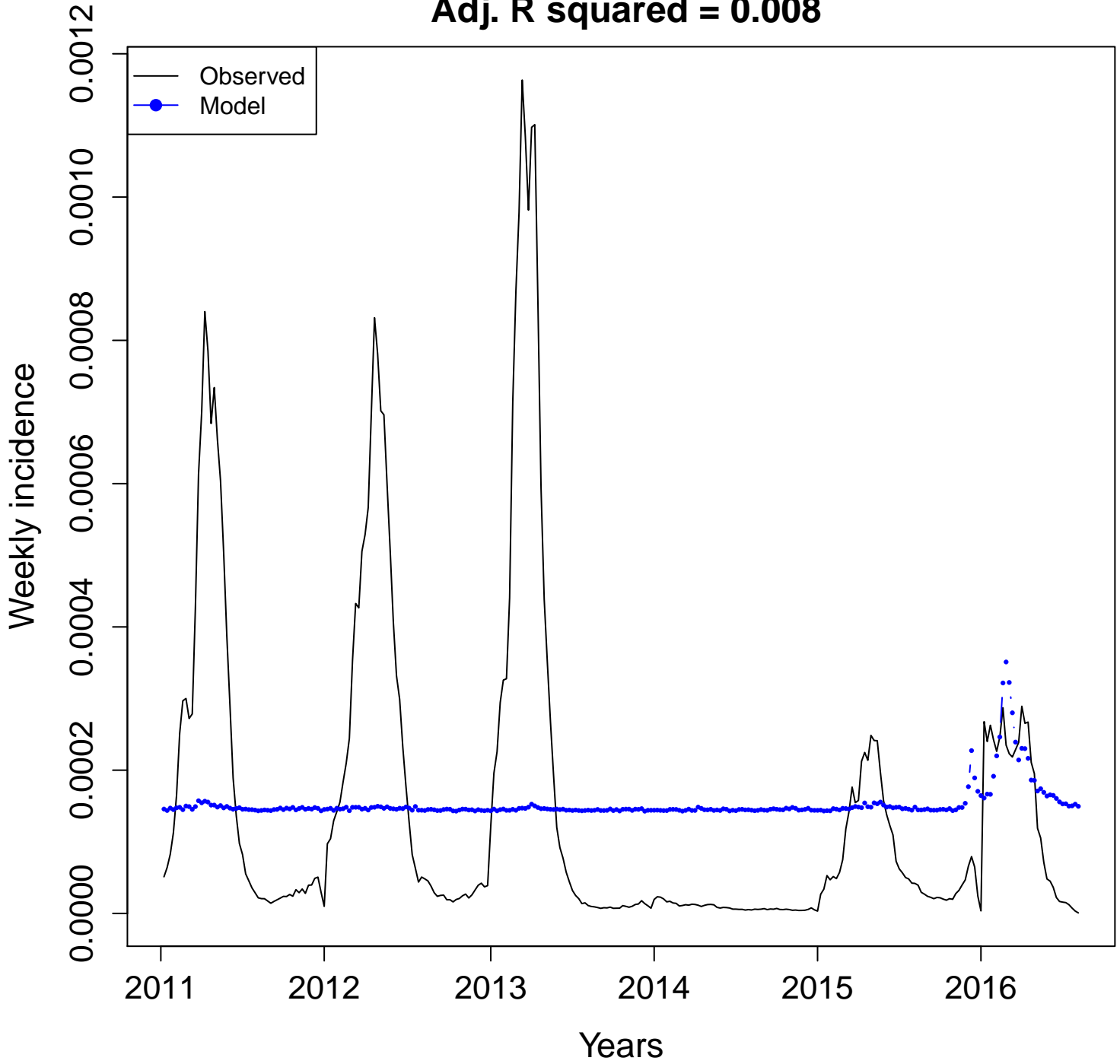
Individual terms
Adjusted R squared

Rio de Janeiro (RJ)

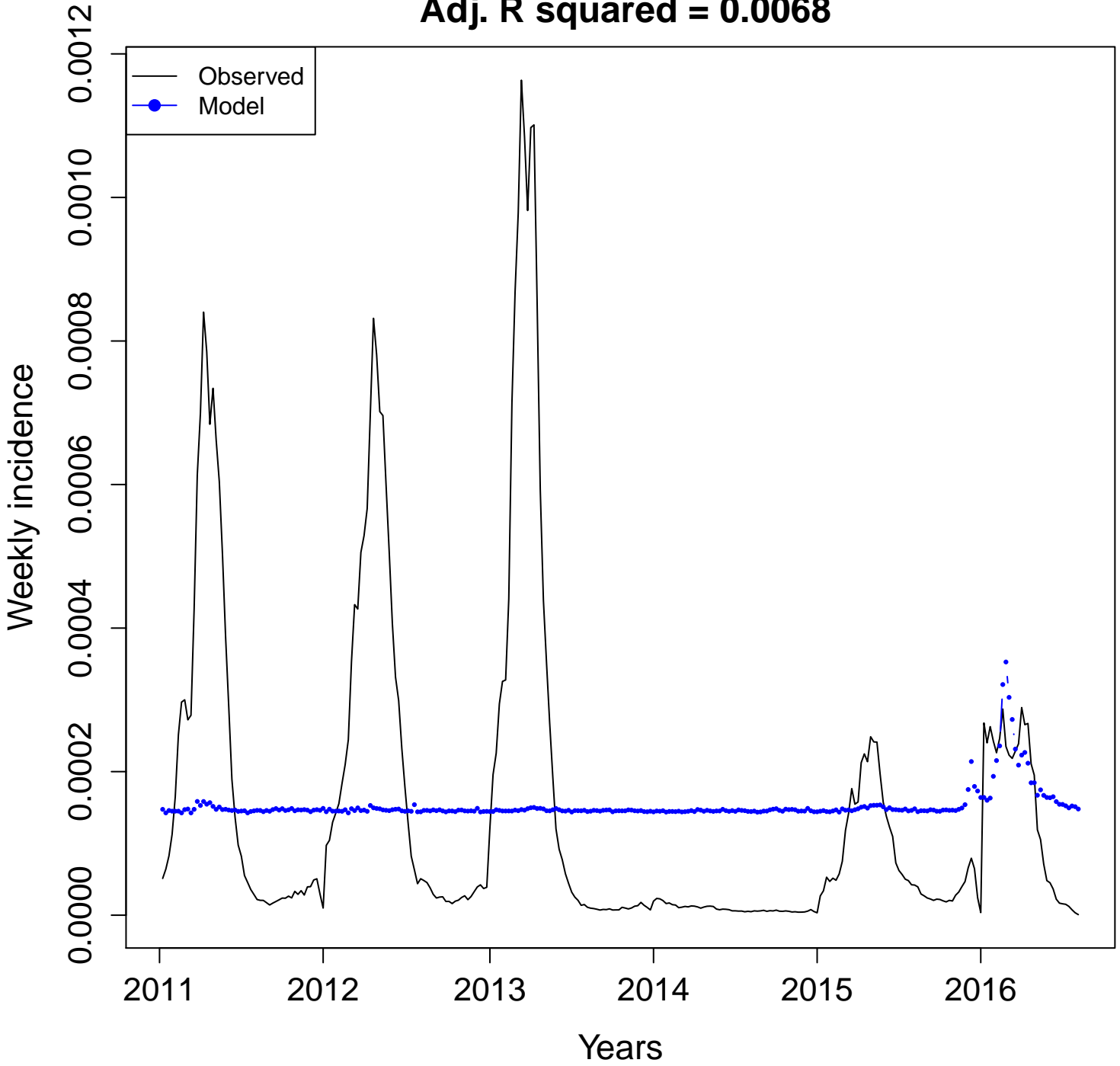
RJ- aedes.aegypti
Adj. R squared = 0.0067



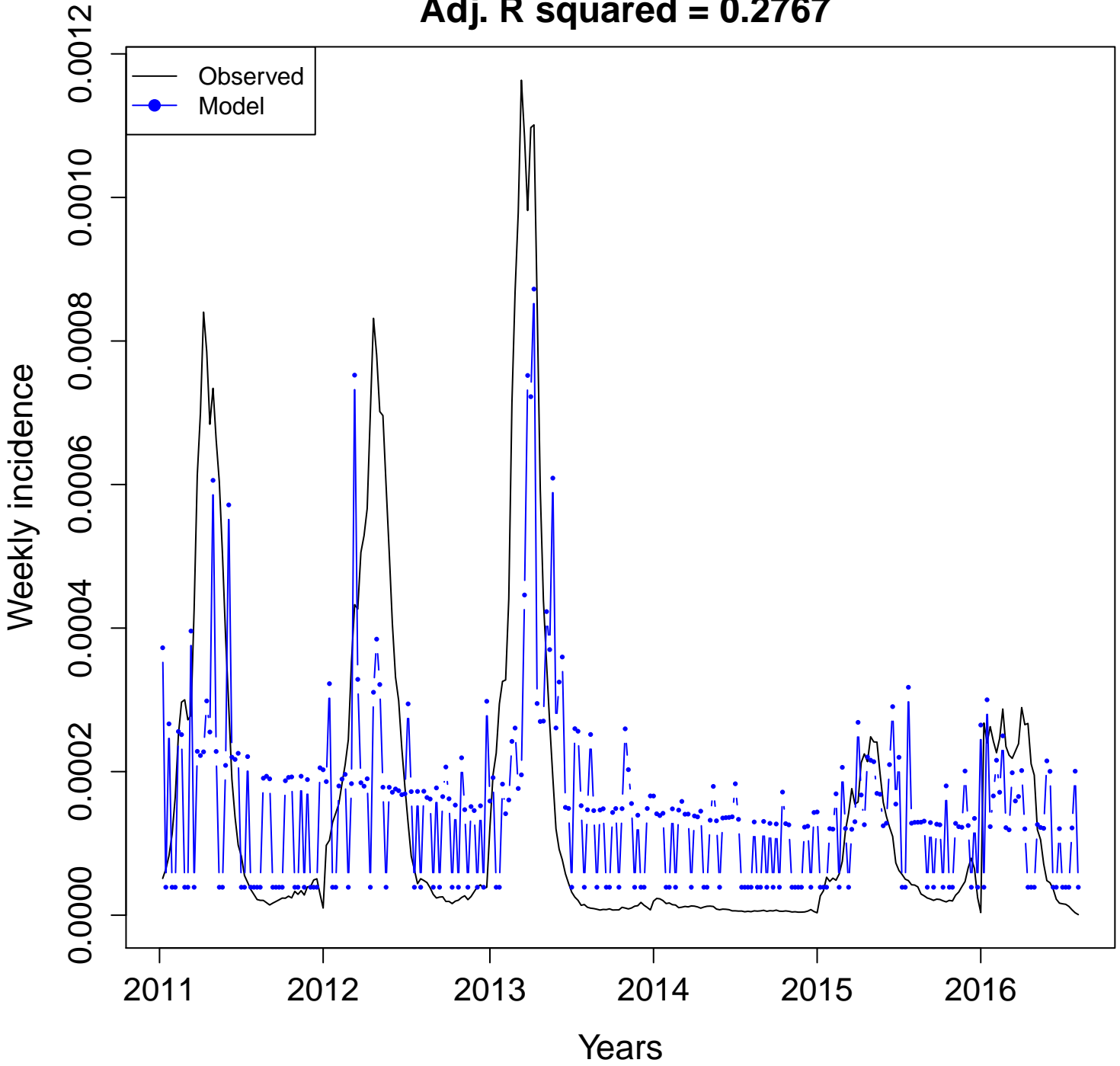
RJ- aedes
Adj. R squared = 0.008



RJ- aegypti
Adj. R squared = 0.0068

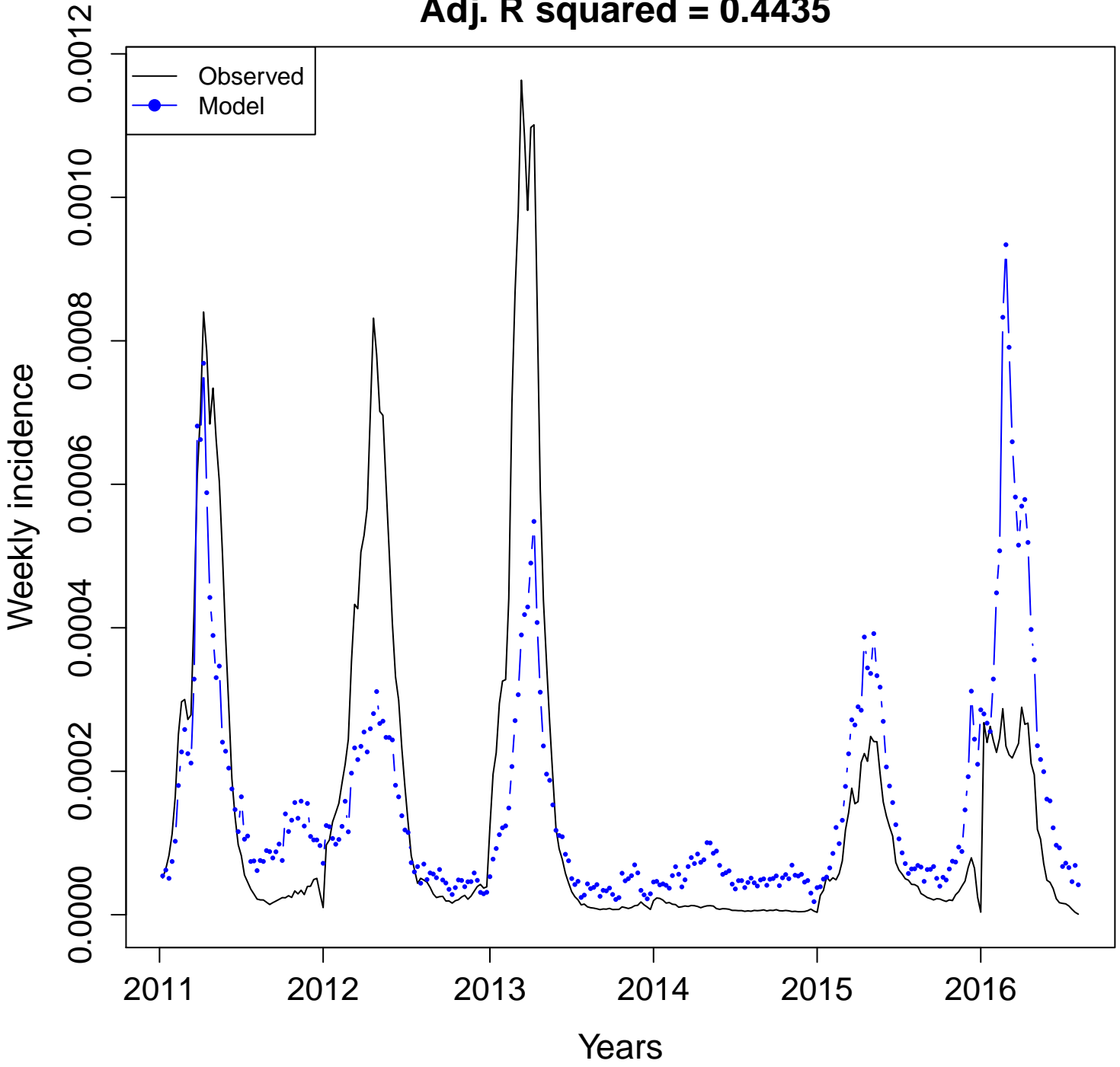


RJ- dengue.fever
Adj. R squared = 0.2767



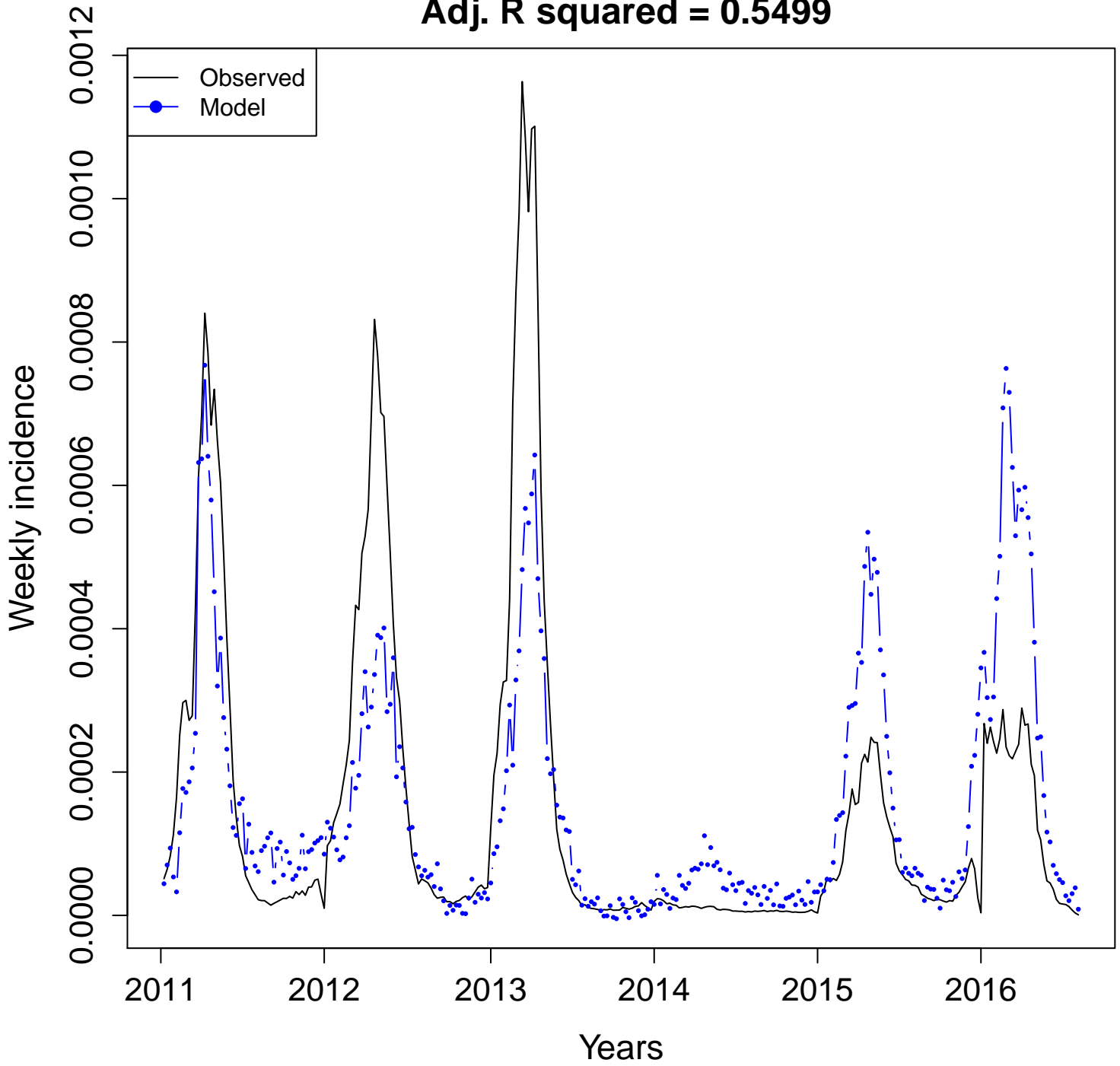
RJ- dengue

Adj. R squared = 0.4435



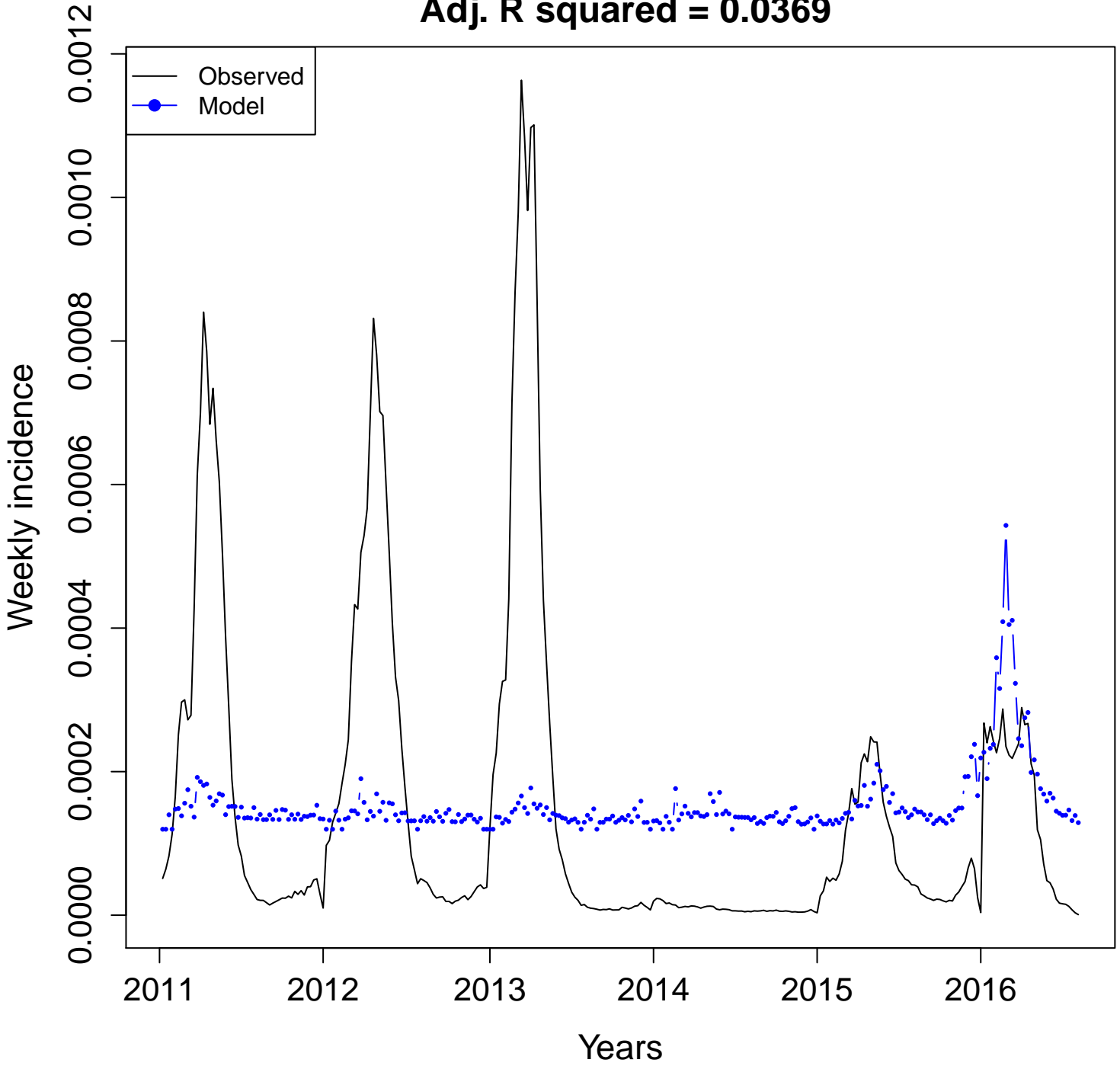
RJ- dengue.sintomas

Adj. R squared = 0.5499



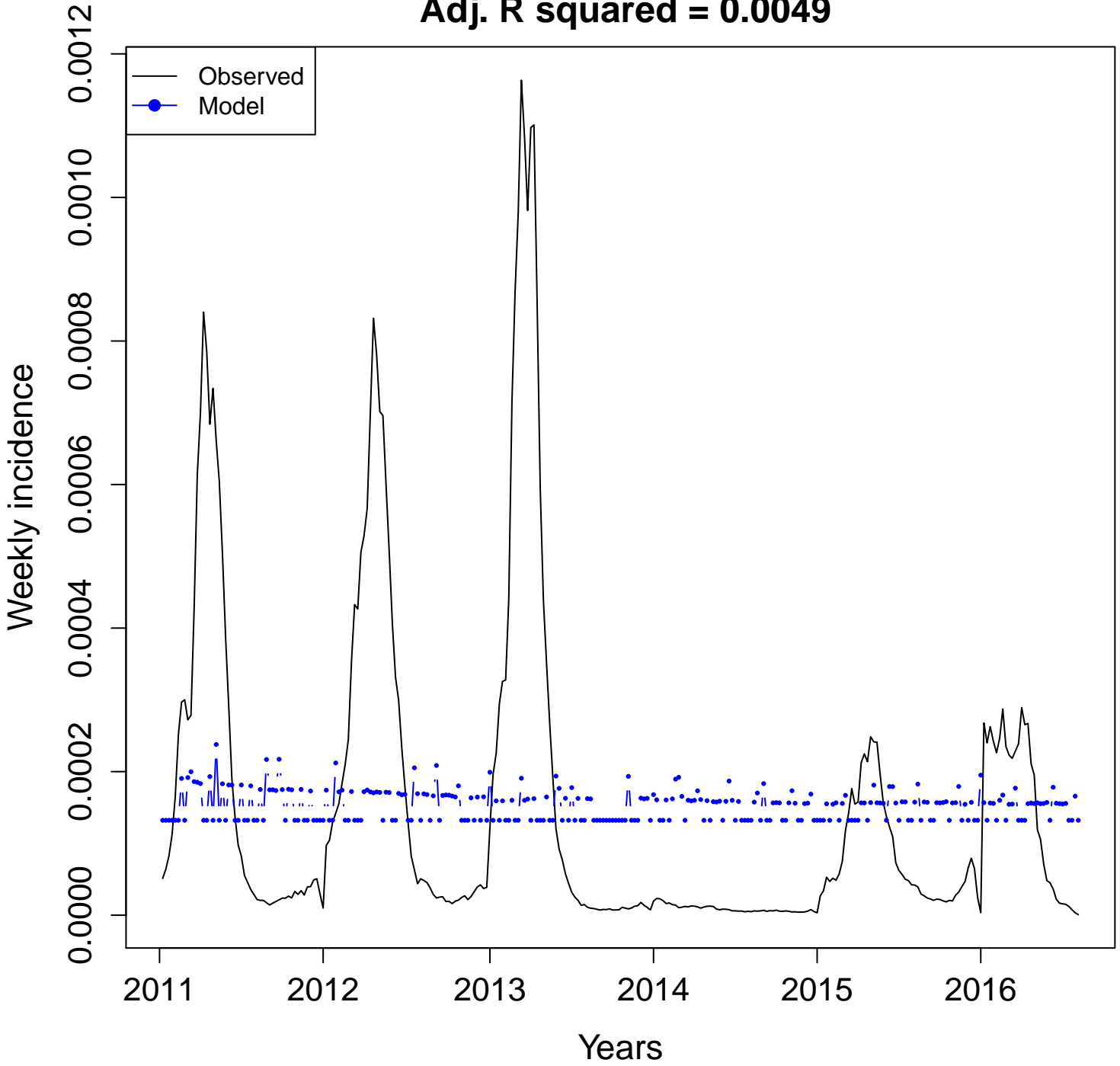
RJ- dengue.virus

Adj. R squared = 0.0369

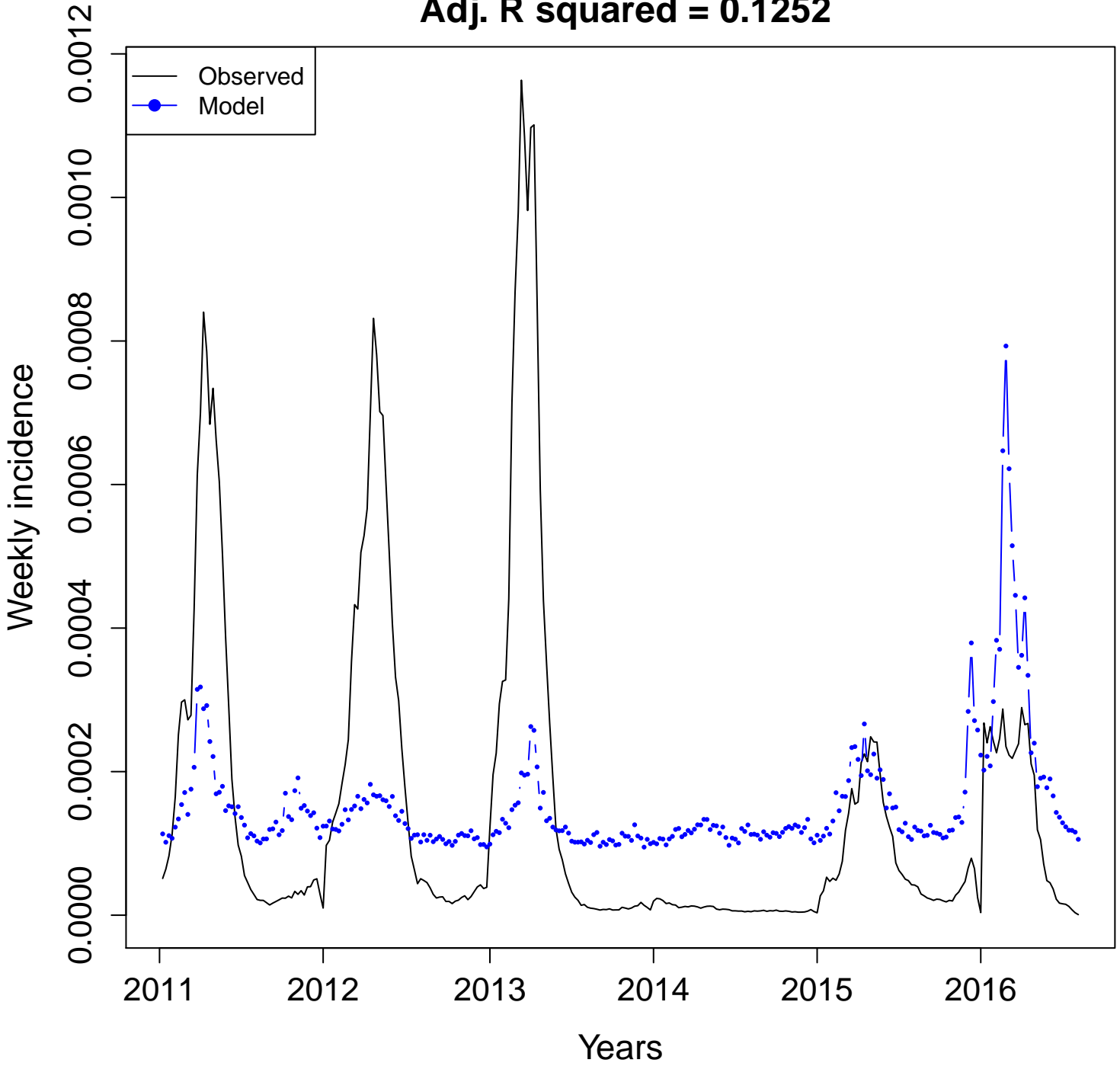


RJ- DHF

Adj. R squared = 0.0049

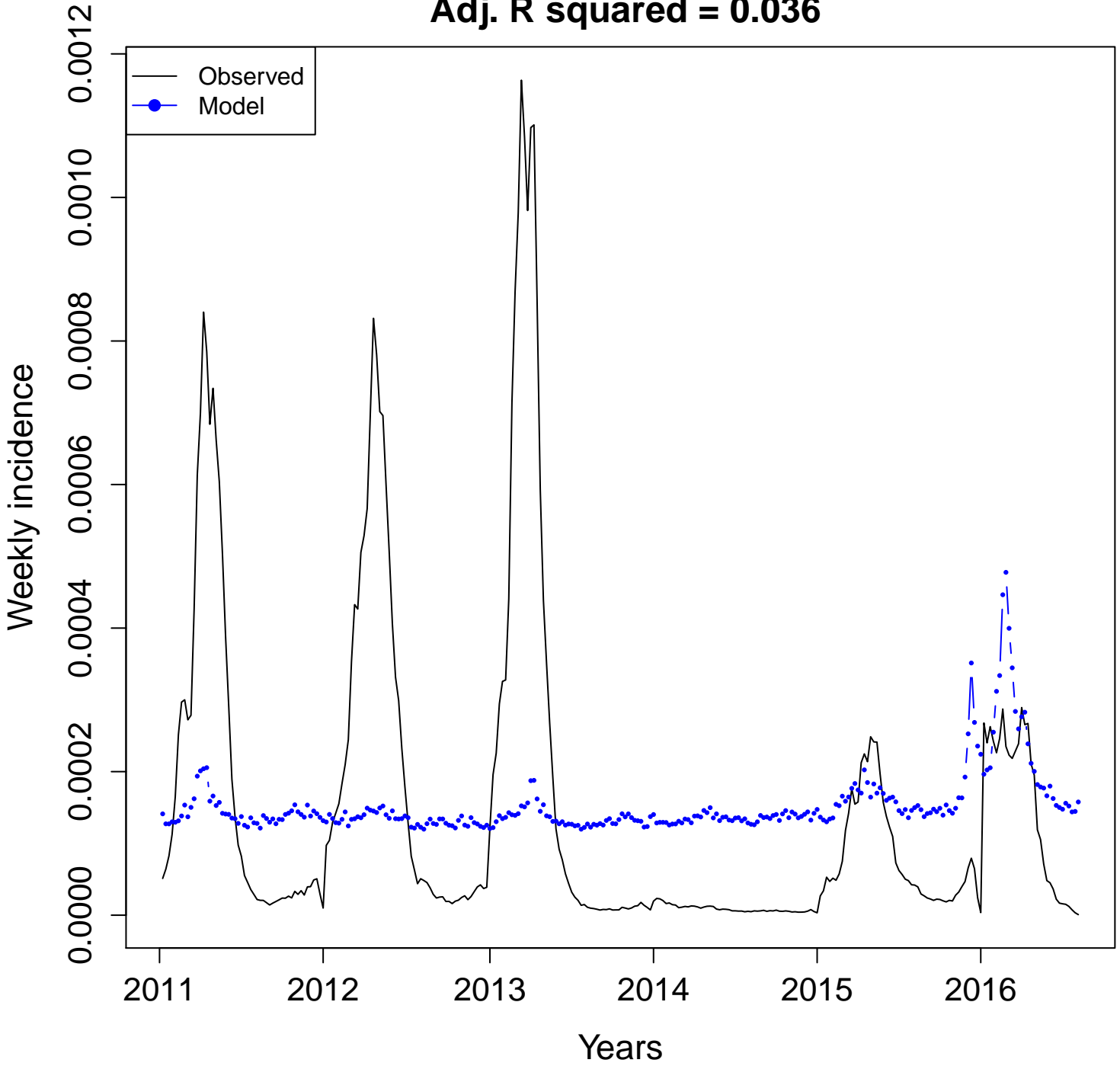


RJ- mosquito.dengue
Adj. R squared = 0.1252



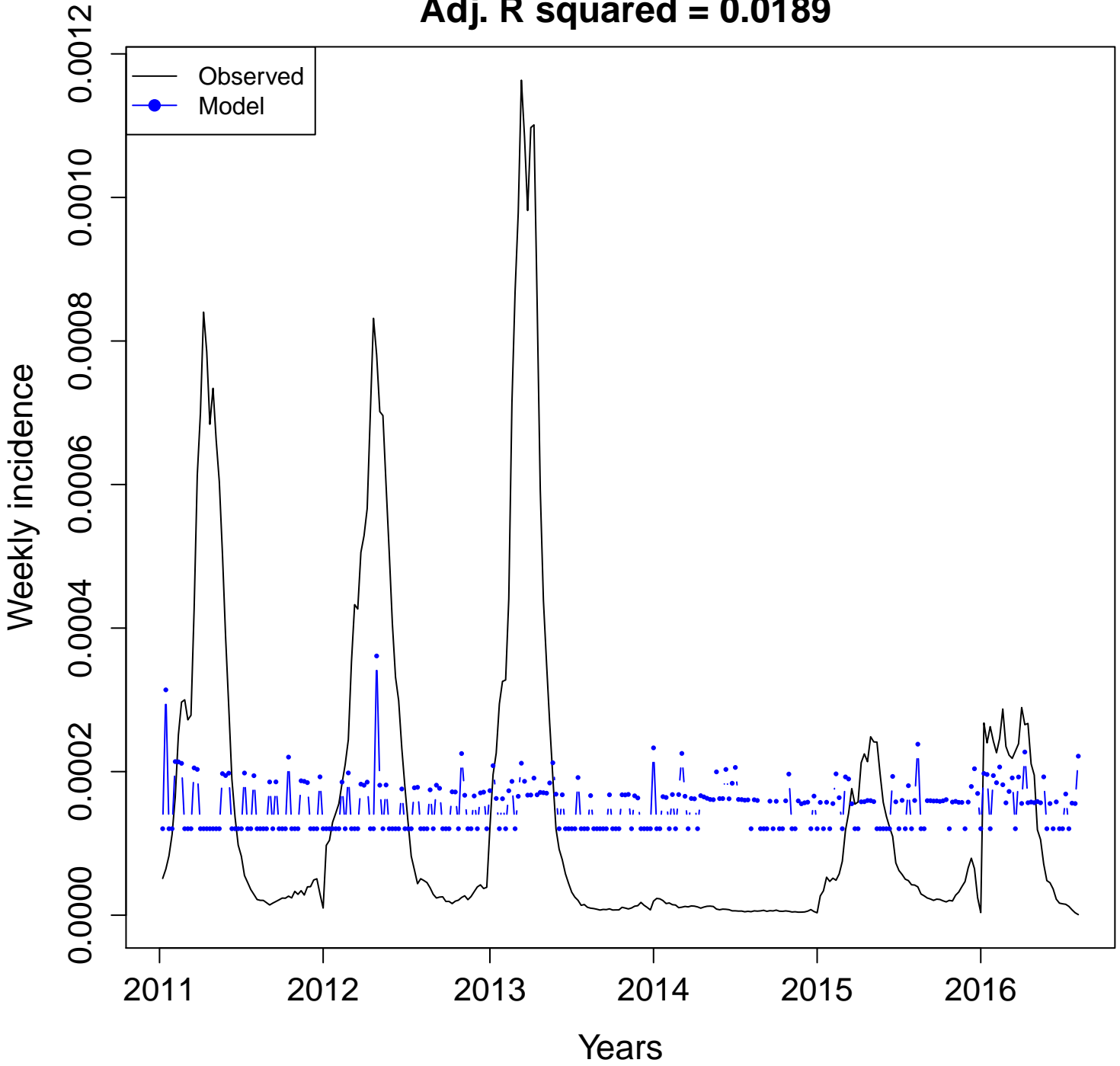
RJ- mosquito

Adj. R squared = 0.036

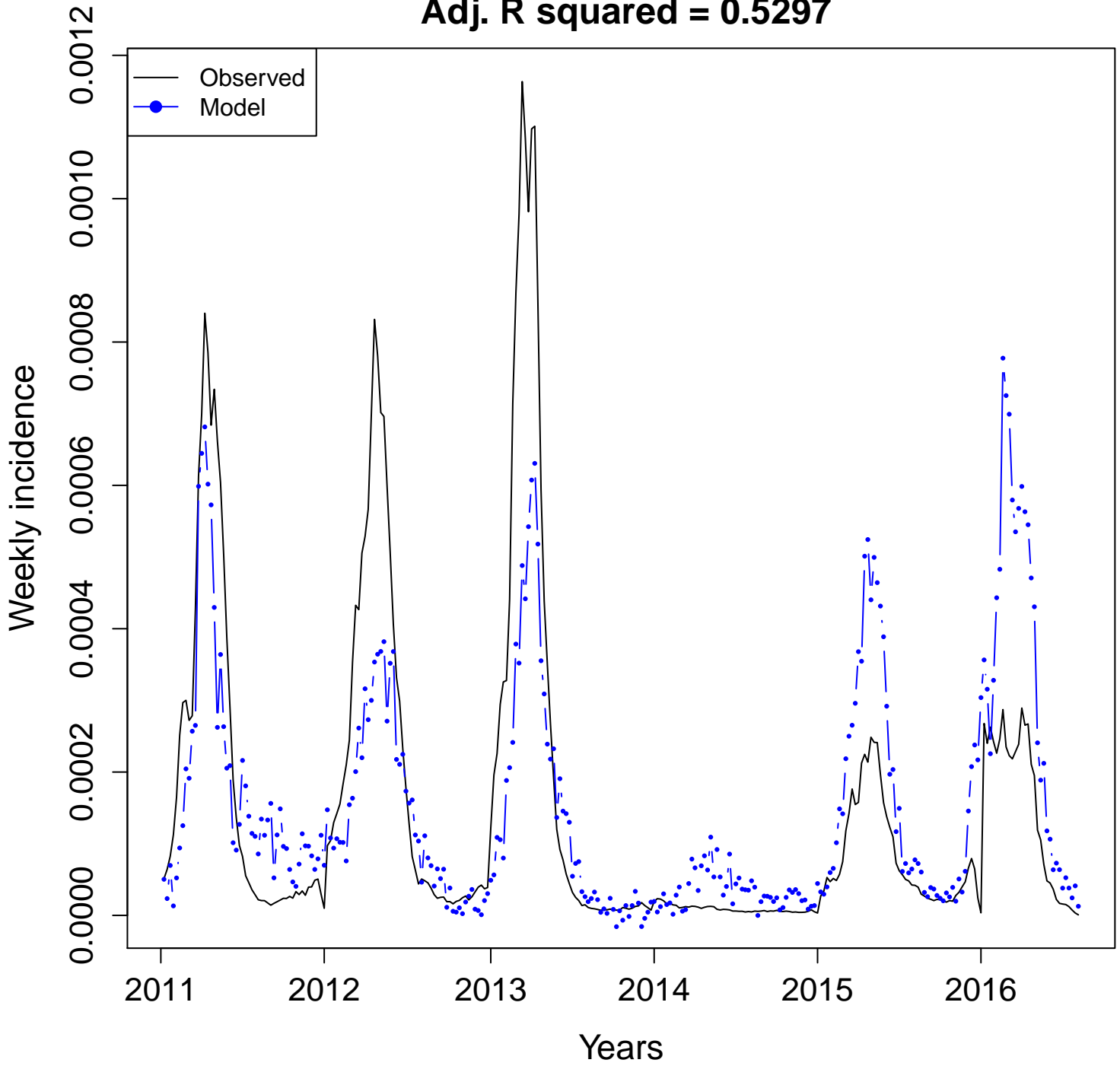


RJ- mosquitoes

Adj. R squared = 0.0189



RJ- sintomas.da.dengue
Adj. R squared = 0.5297



Rio Grande do Norte (RN)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

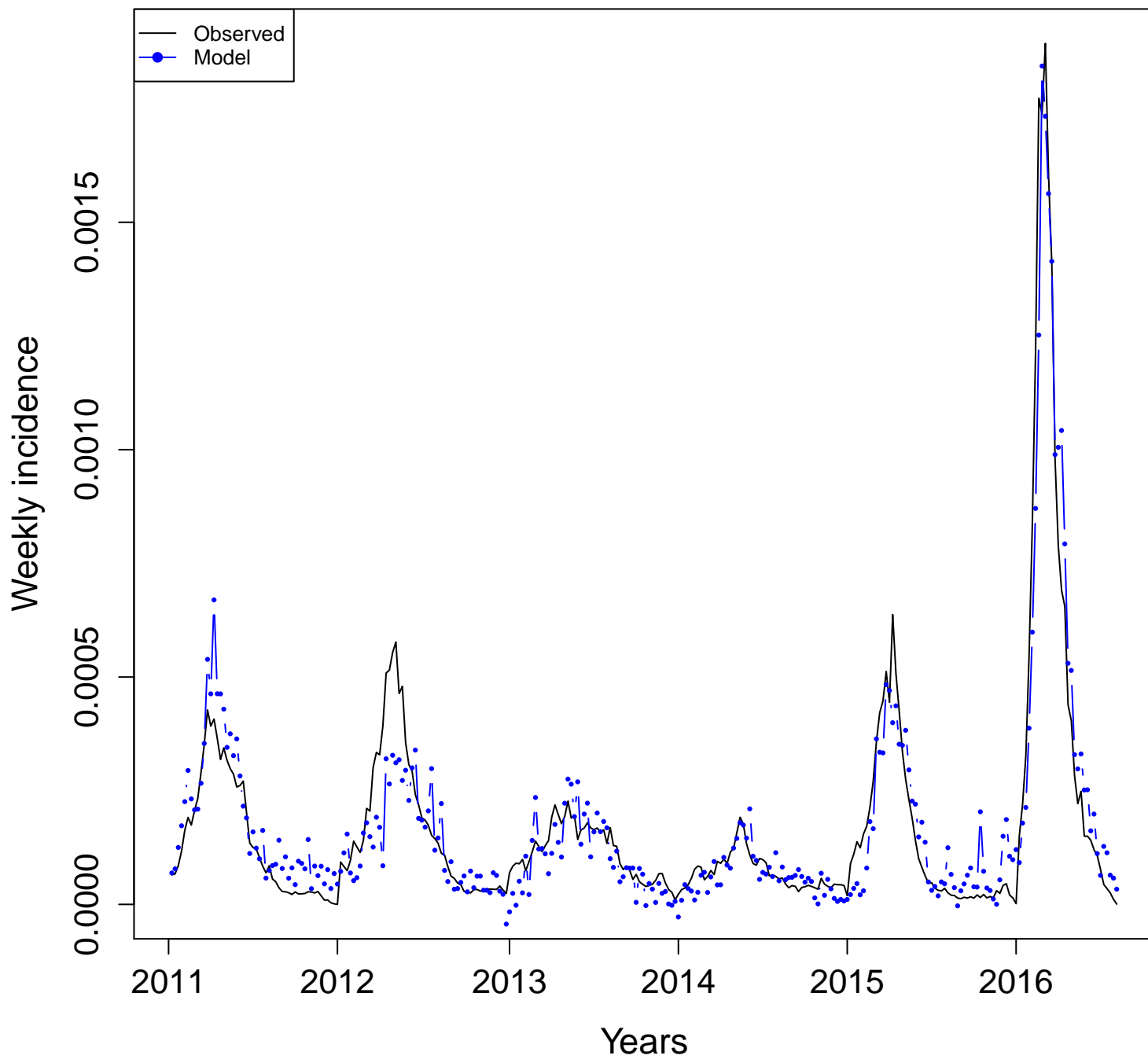
- **Combined terms:**
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 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. $n =$ number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

**Combined terms
Adjusted R squared**

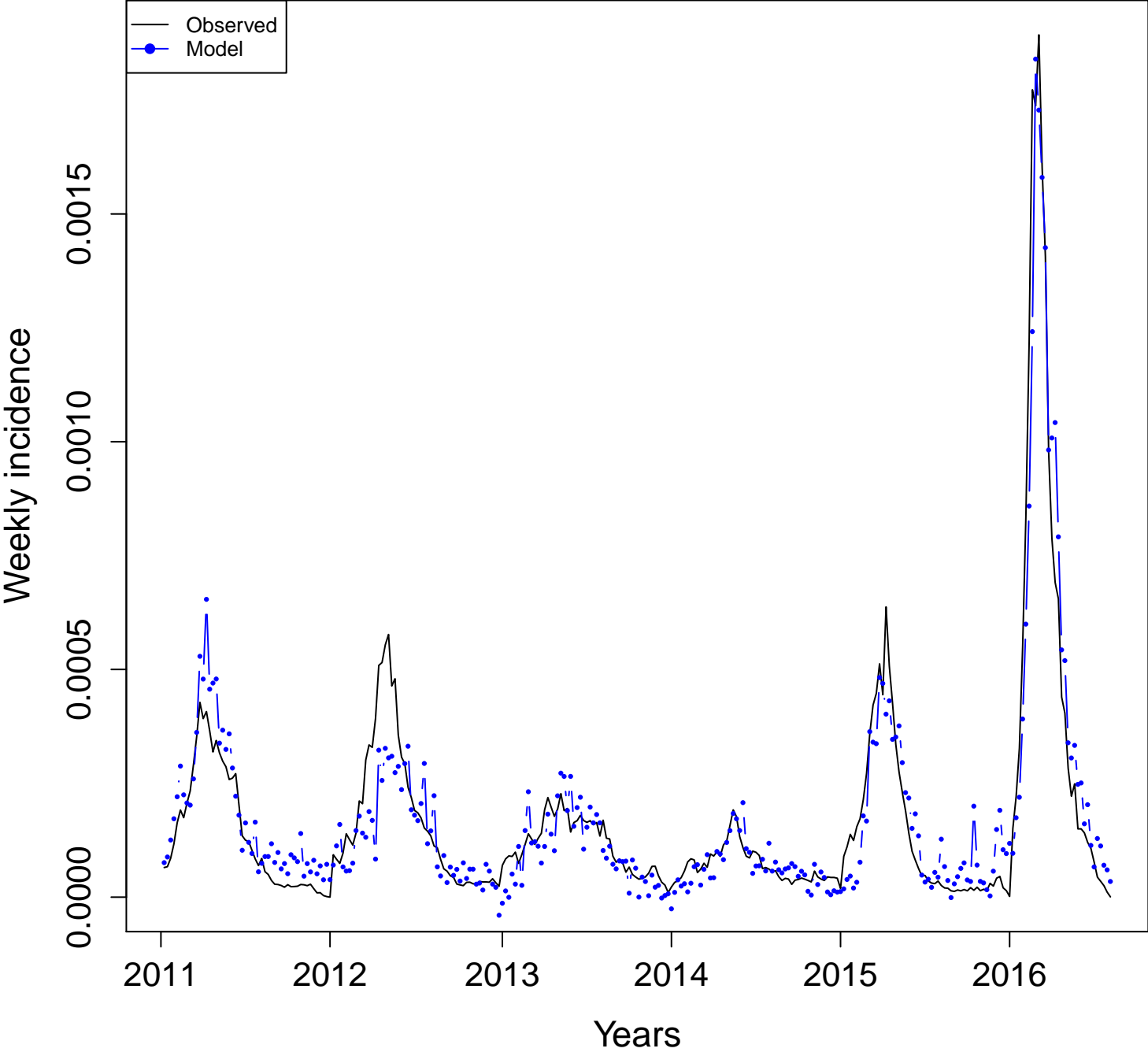
**Rio Grande do
Norte (RN)**

All
(n = 9)

BR-RN
Adj. R squared = 0.89

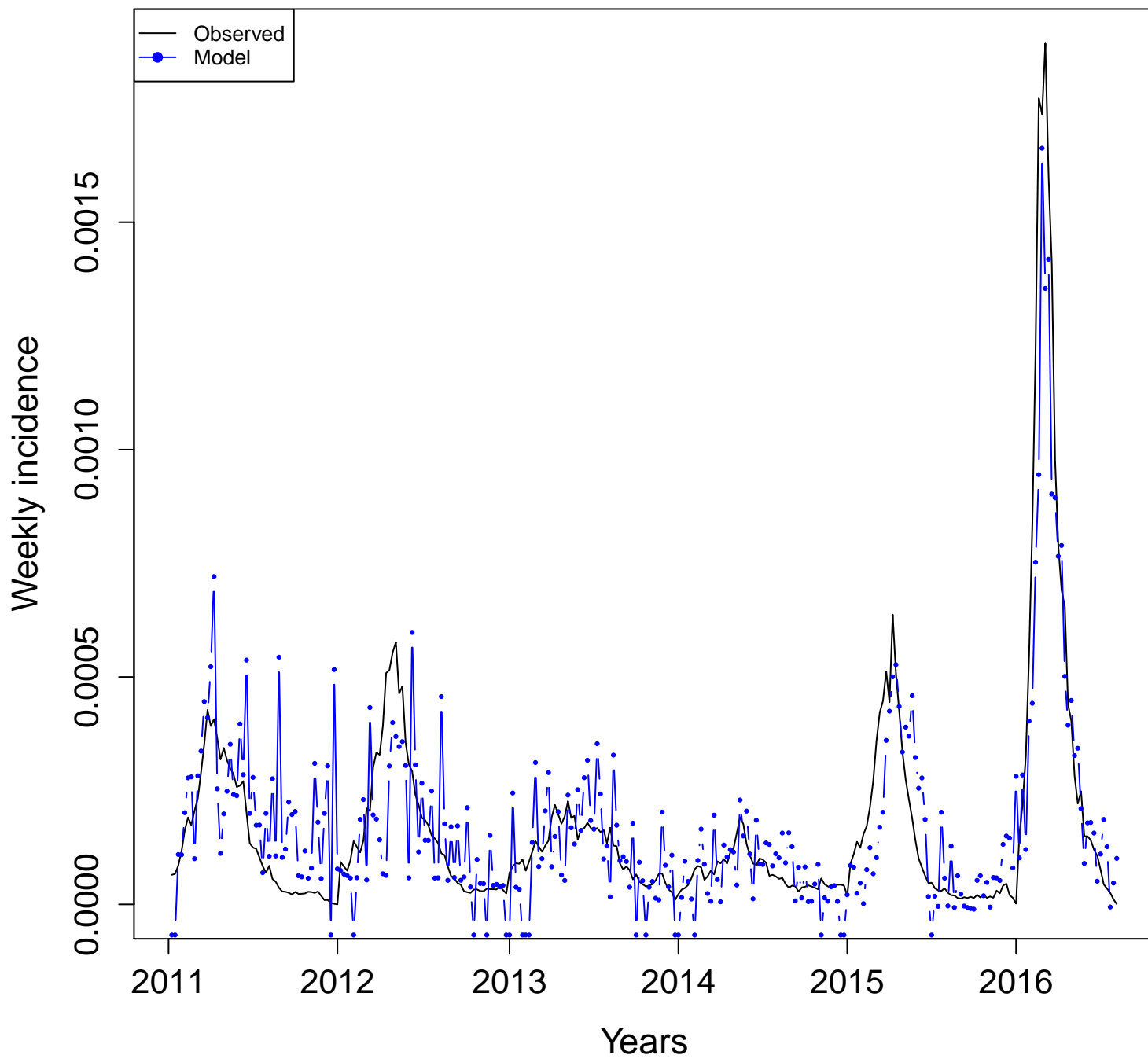


BR-RN
Adj. R squared = 0.8913



**Uncorrelated
(n = 2)**

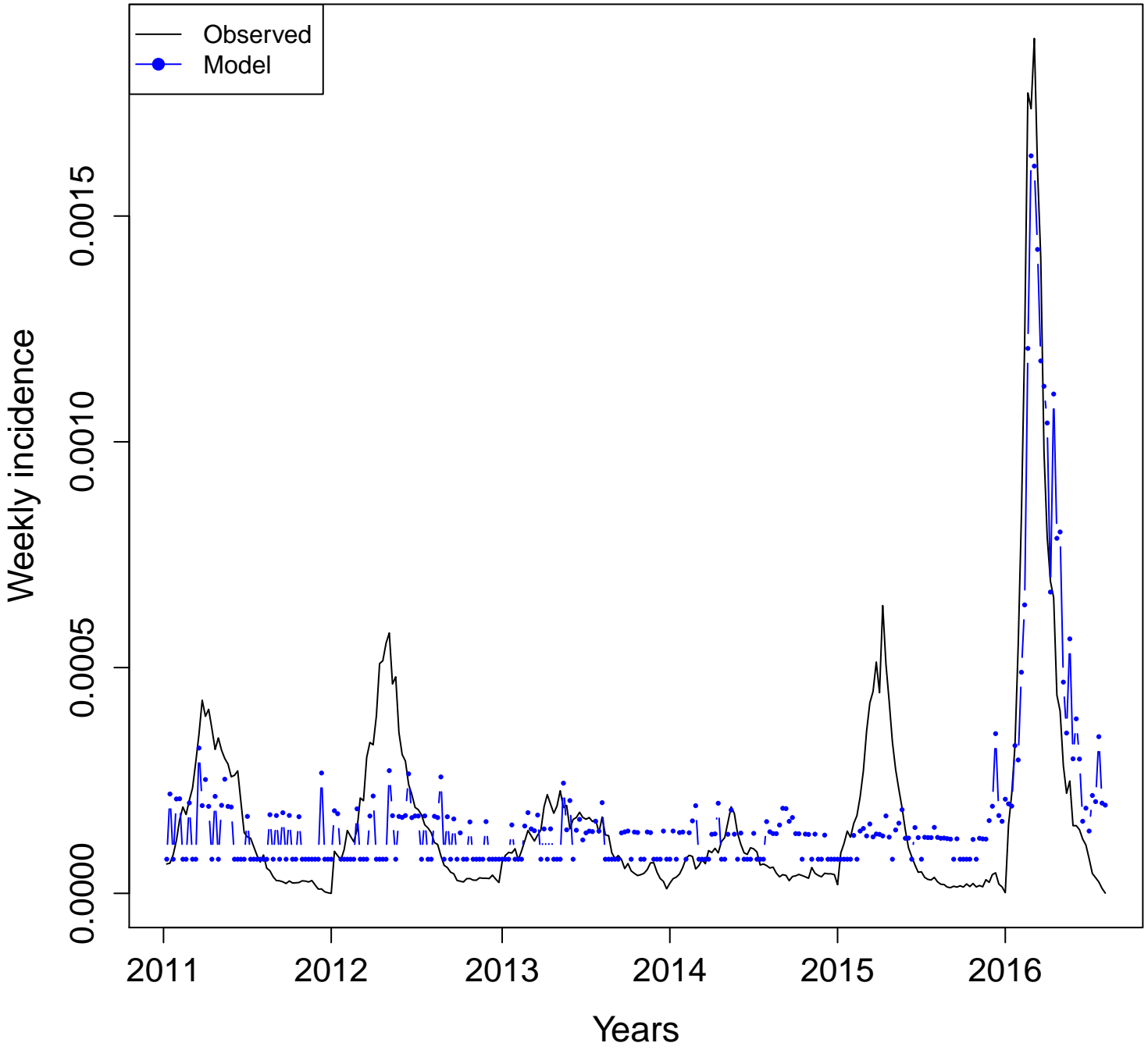
**BR-RN
Adj. R squared = 0.7059**



Individual terms
Adjusted R squared

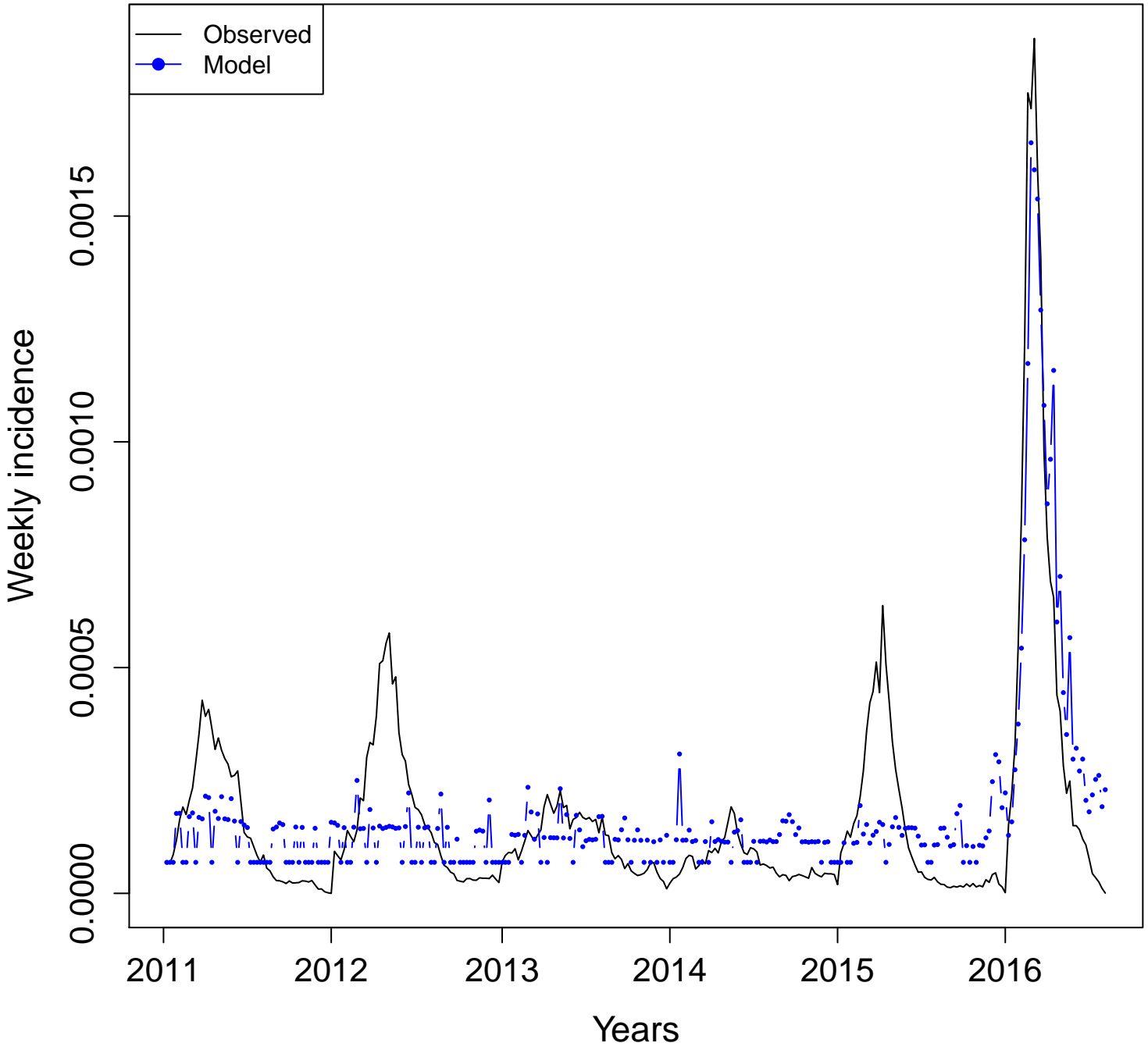
Rio Grande do
Norte (RN)

RN- aedes.aegypti
Adj. R squared = 0.6853



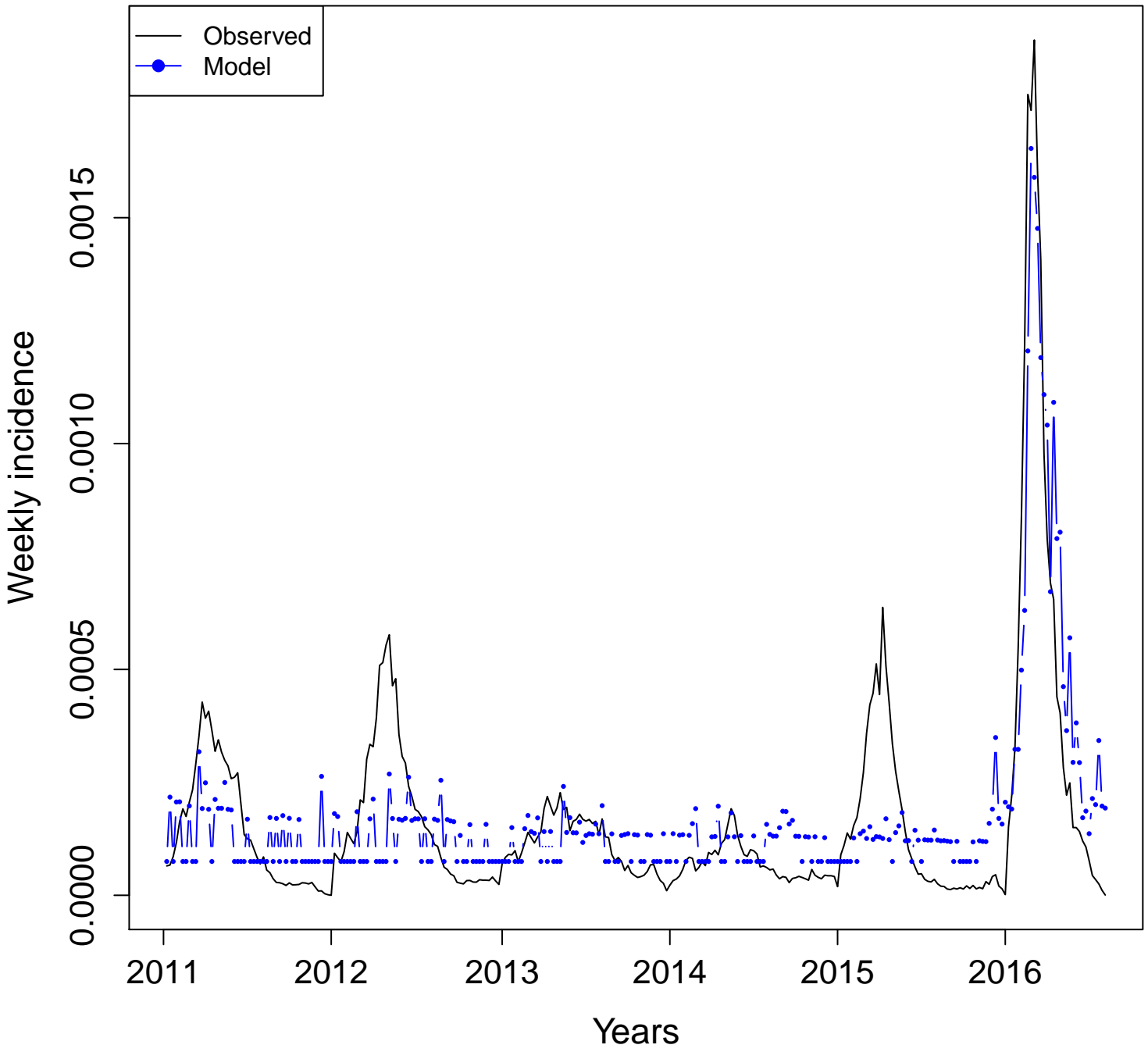
RN- aedes

Adj. R squared = 0.7057

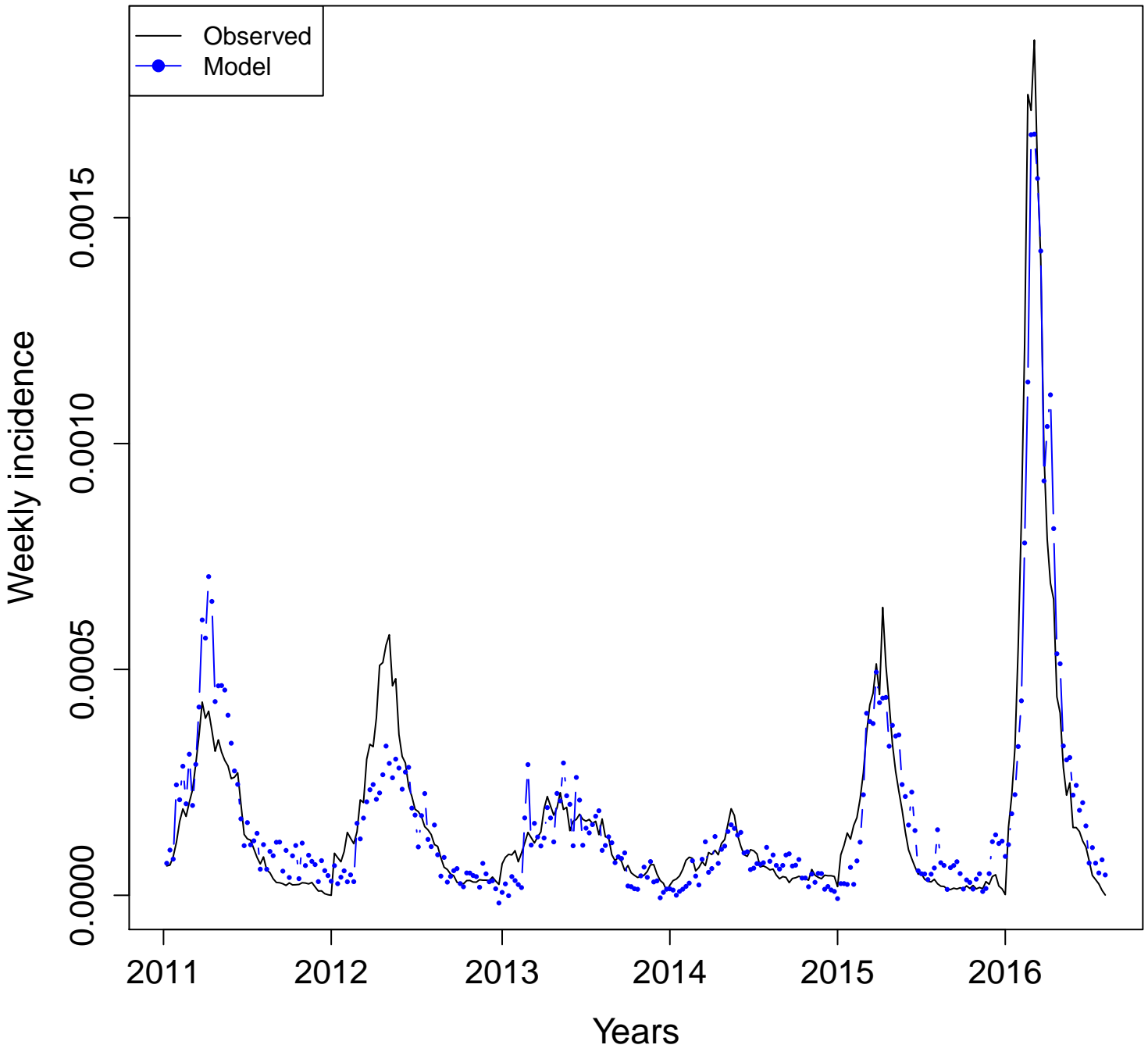


RN- aegypti

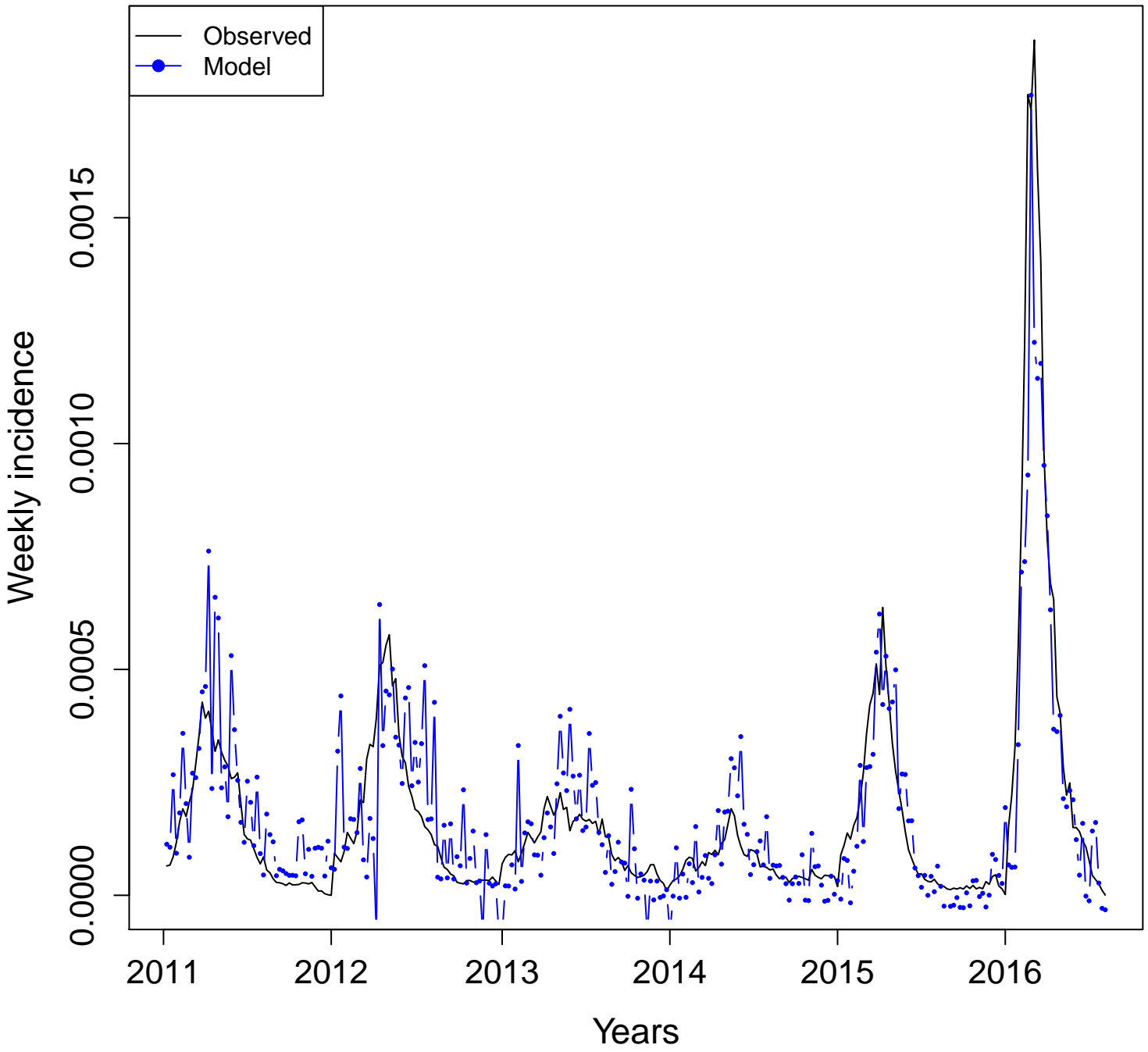
Adj. R squared = 0.6897



RN- dengue
Adj. R squared = 0.8693

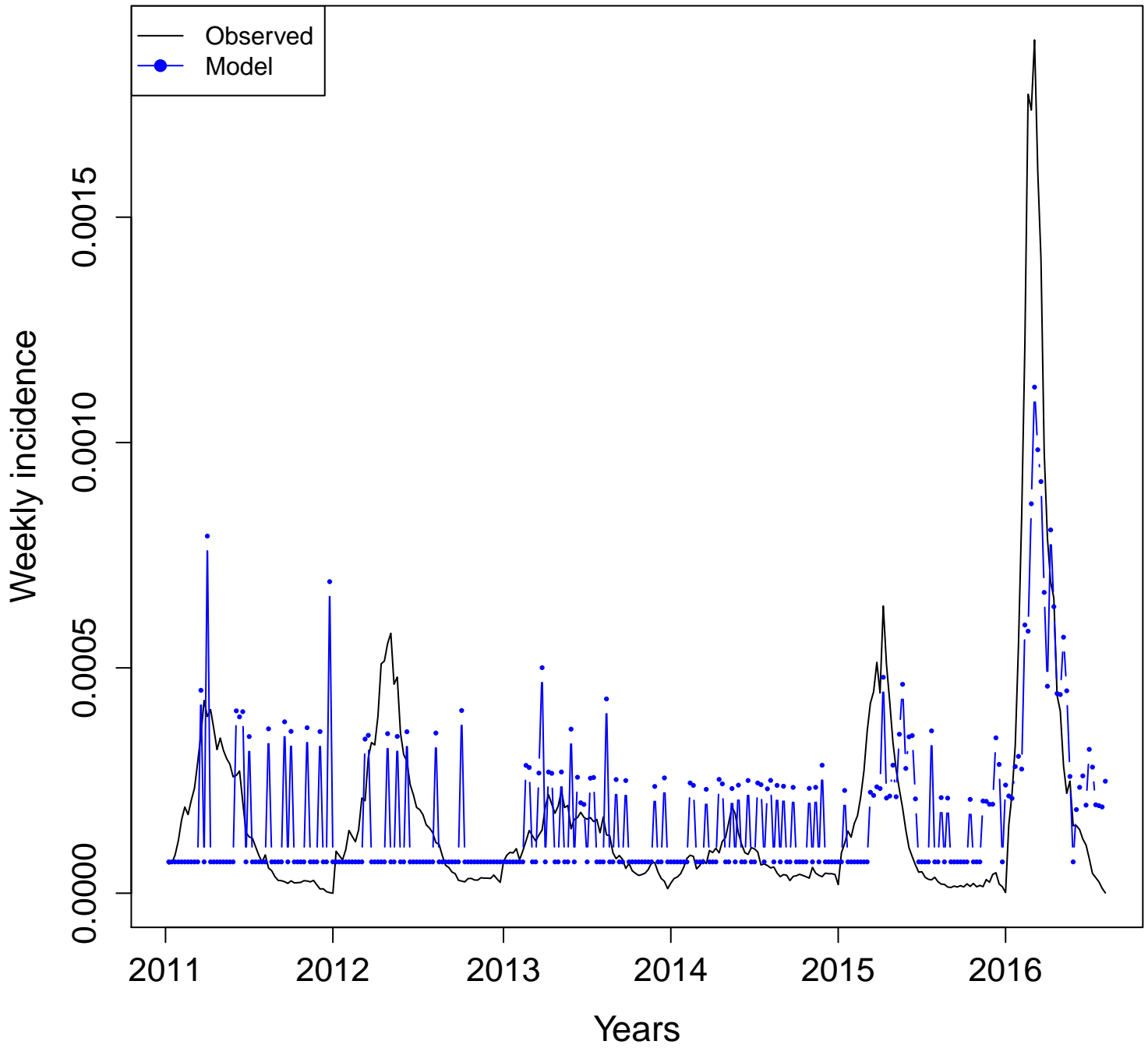


RN- dengue.sintomas
Adj. R squared = 0.7542

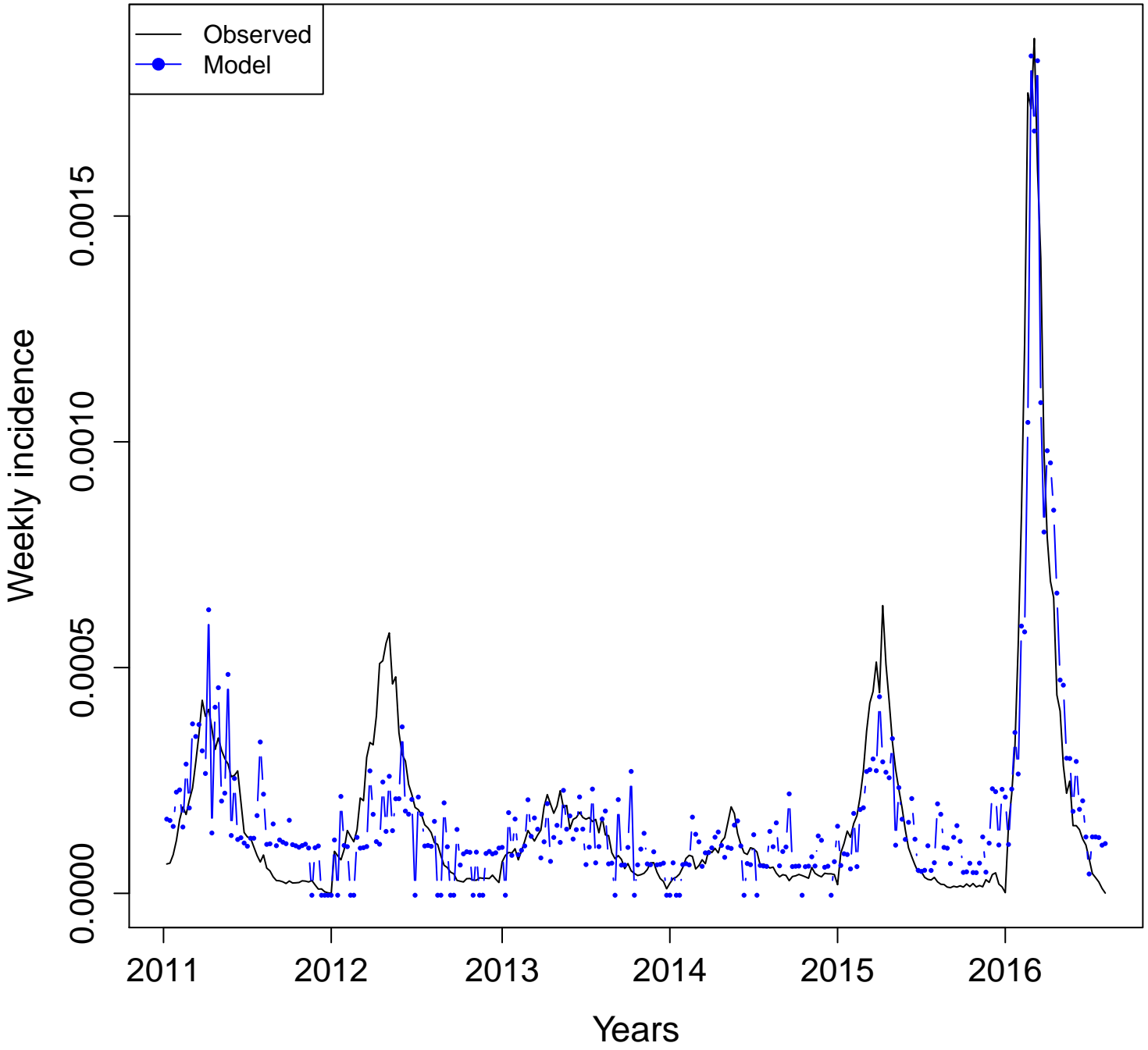


RN- dengue.virus

Adj. R squared = 0.4253

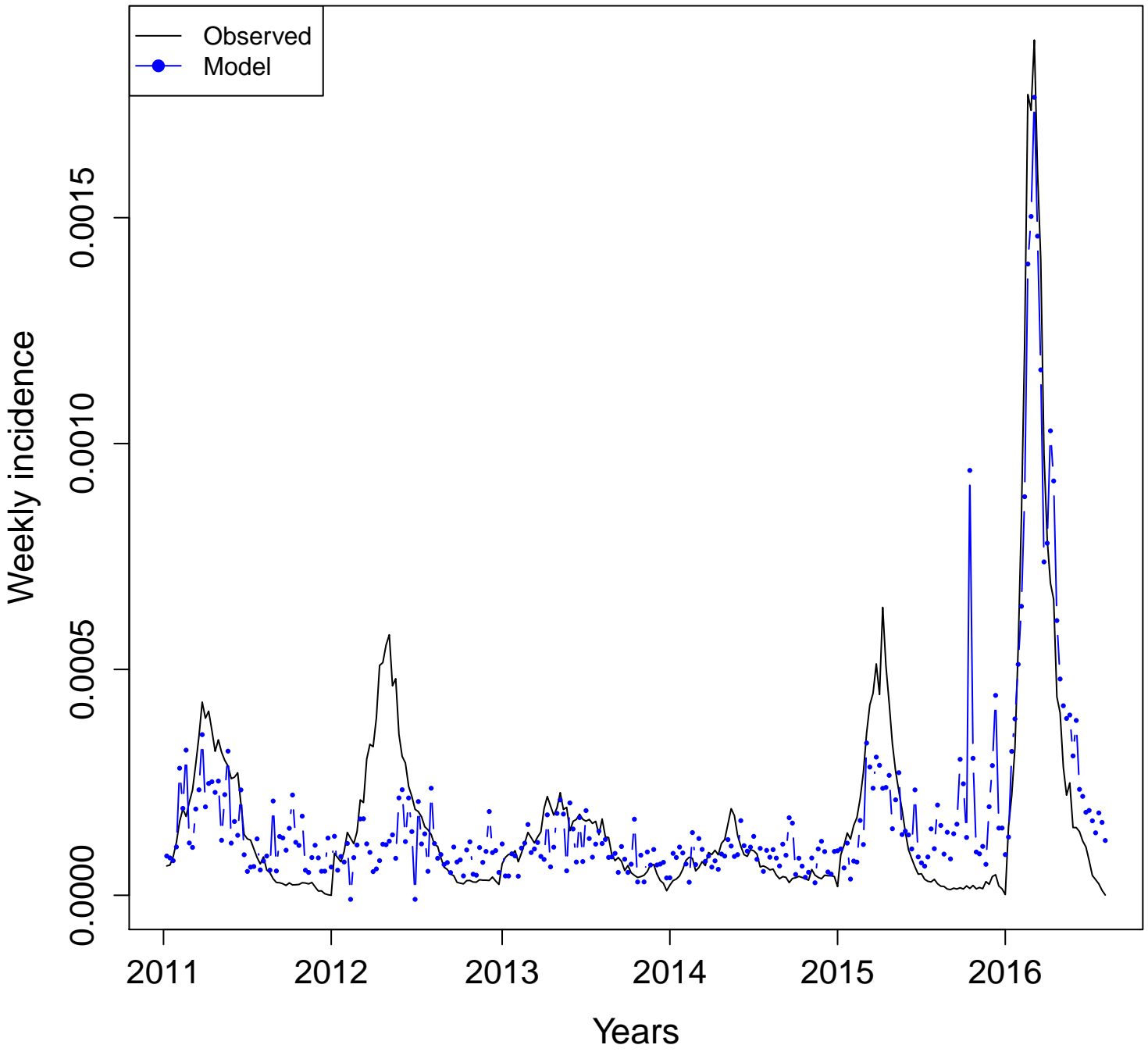


RN- mosquito.dengue
Adj. R squared = 0.7768

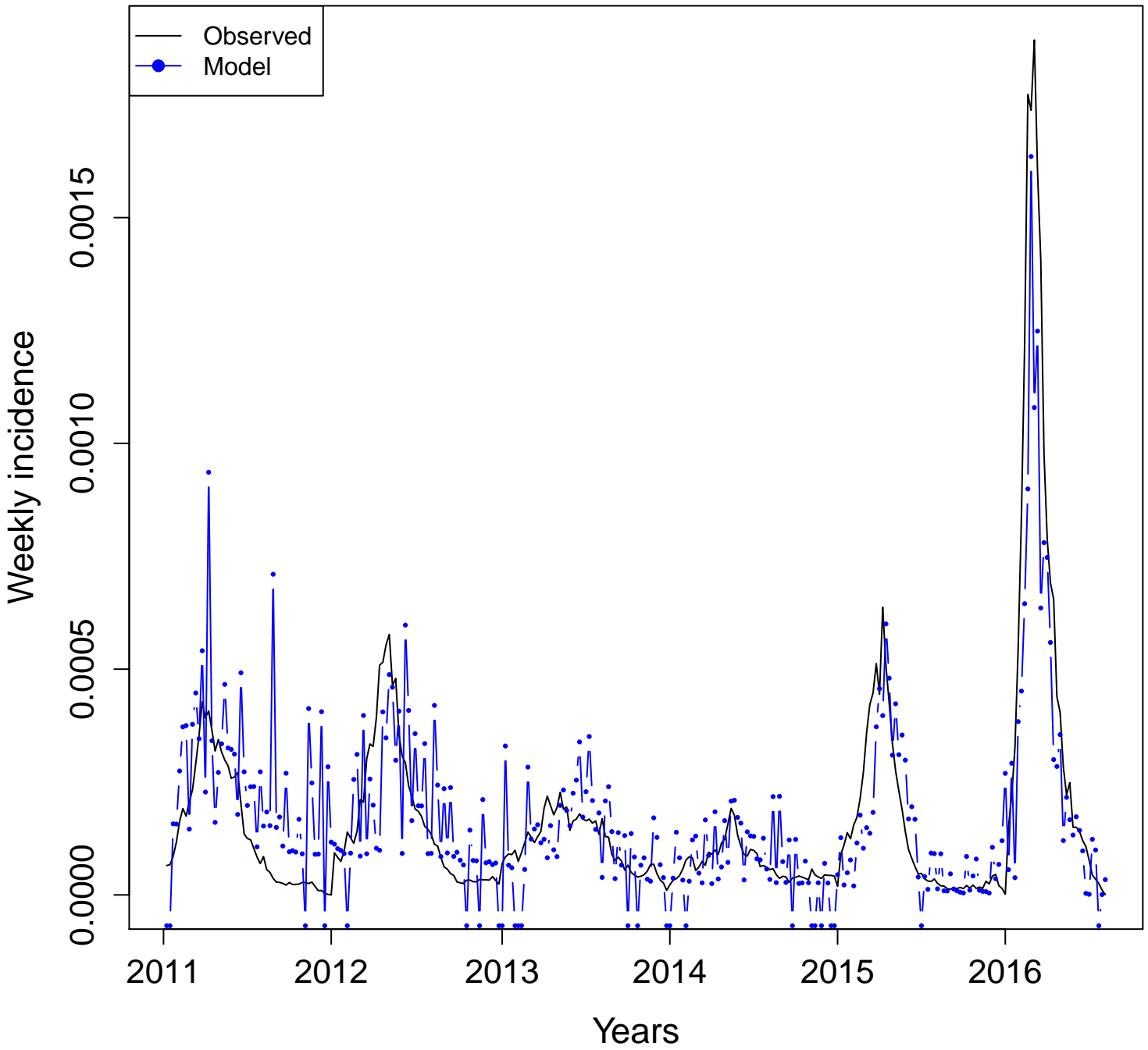


RN- mosquito

Adj. R squared = 0.7295



RN- sintomas.da.dengue
Adj. R squared = 0.6314



Rôndonia (RO)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

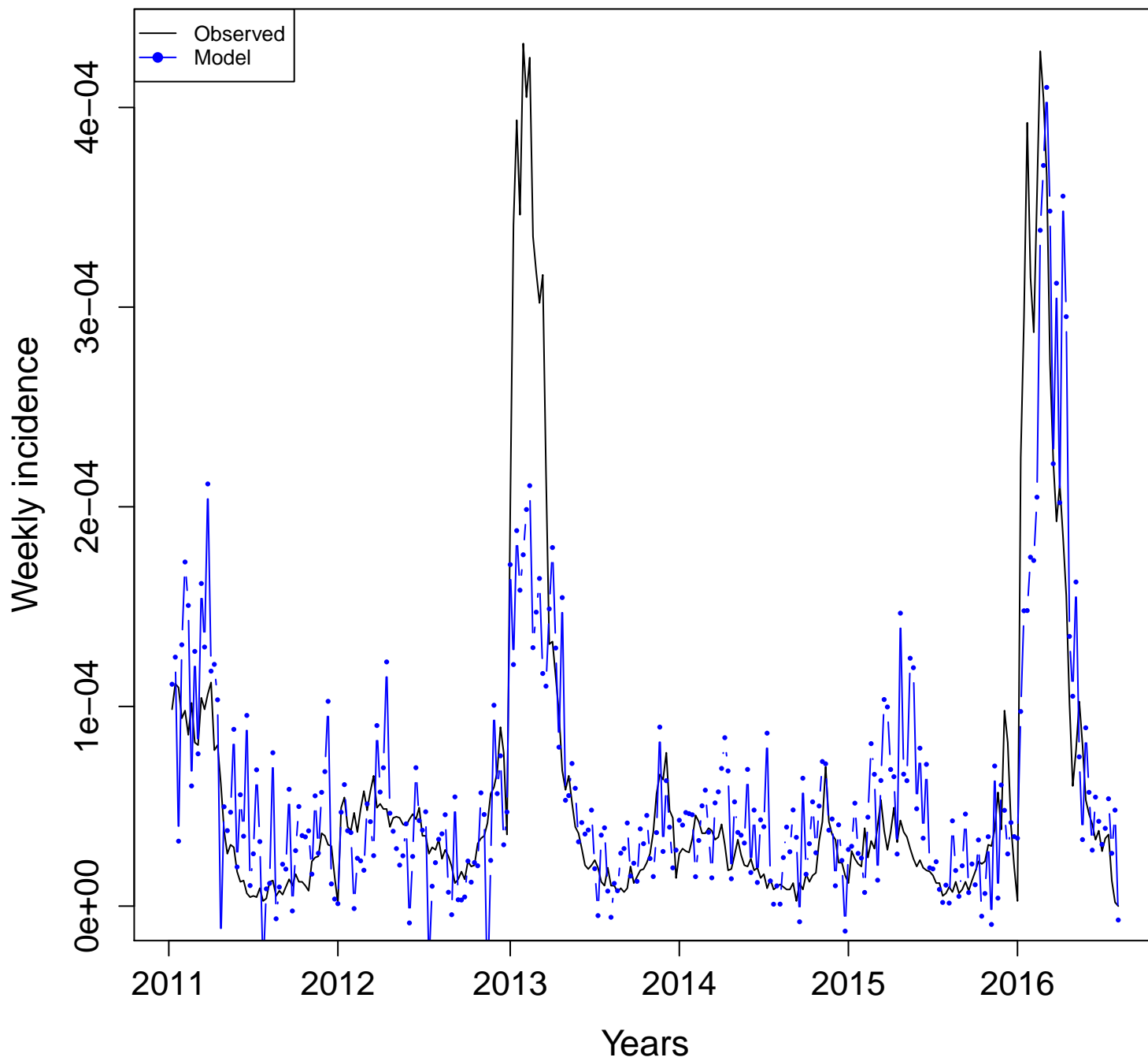
- **Combined terms:**
 - **All:** model with all the available terms. $n =$ number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. $n =$ number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

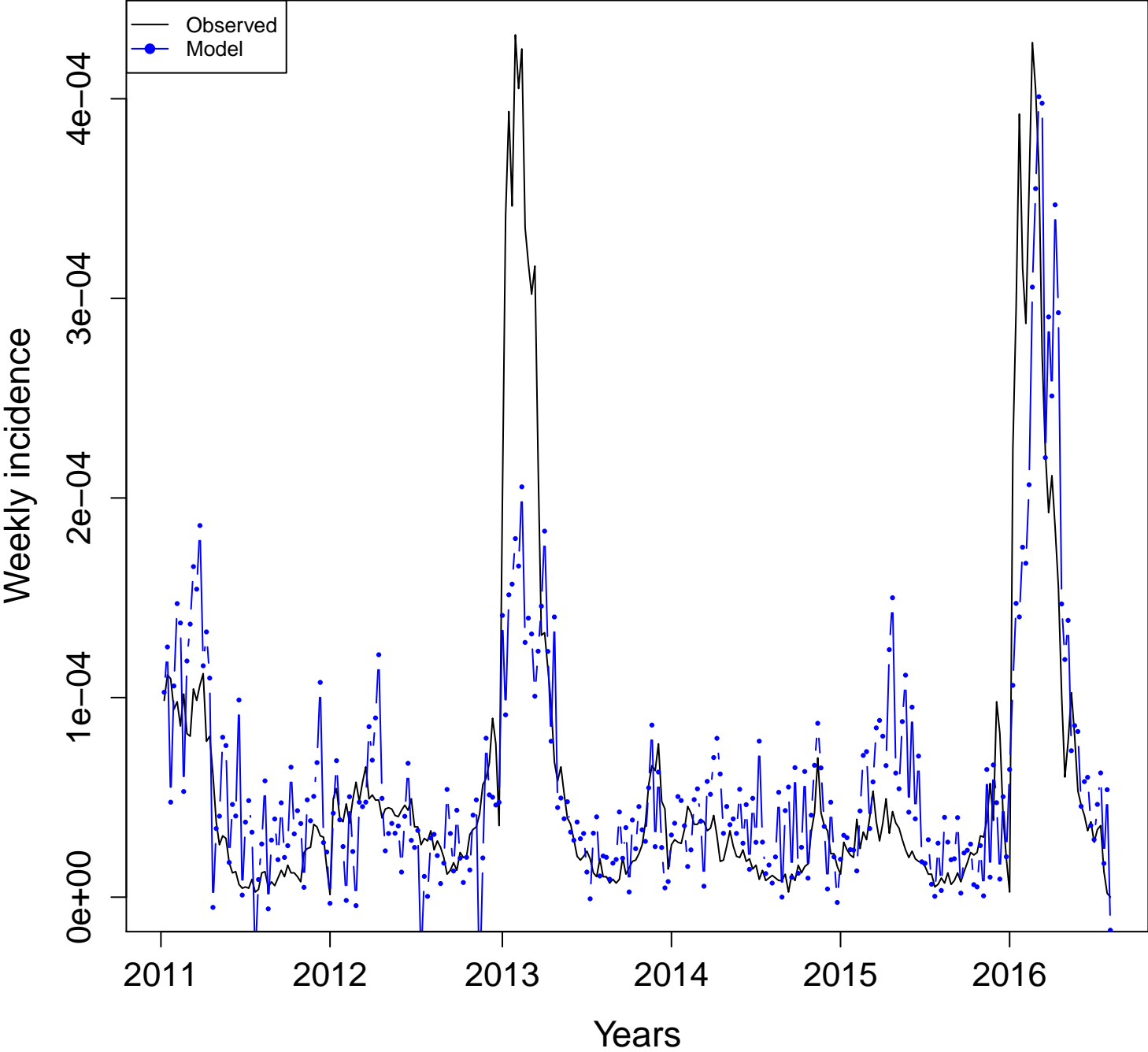
Rôndonia (RO)

All
(n = 9)

BR-RO
Adj. R squared = 0.5676

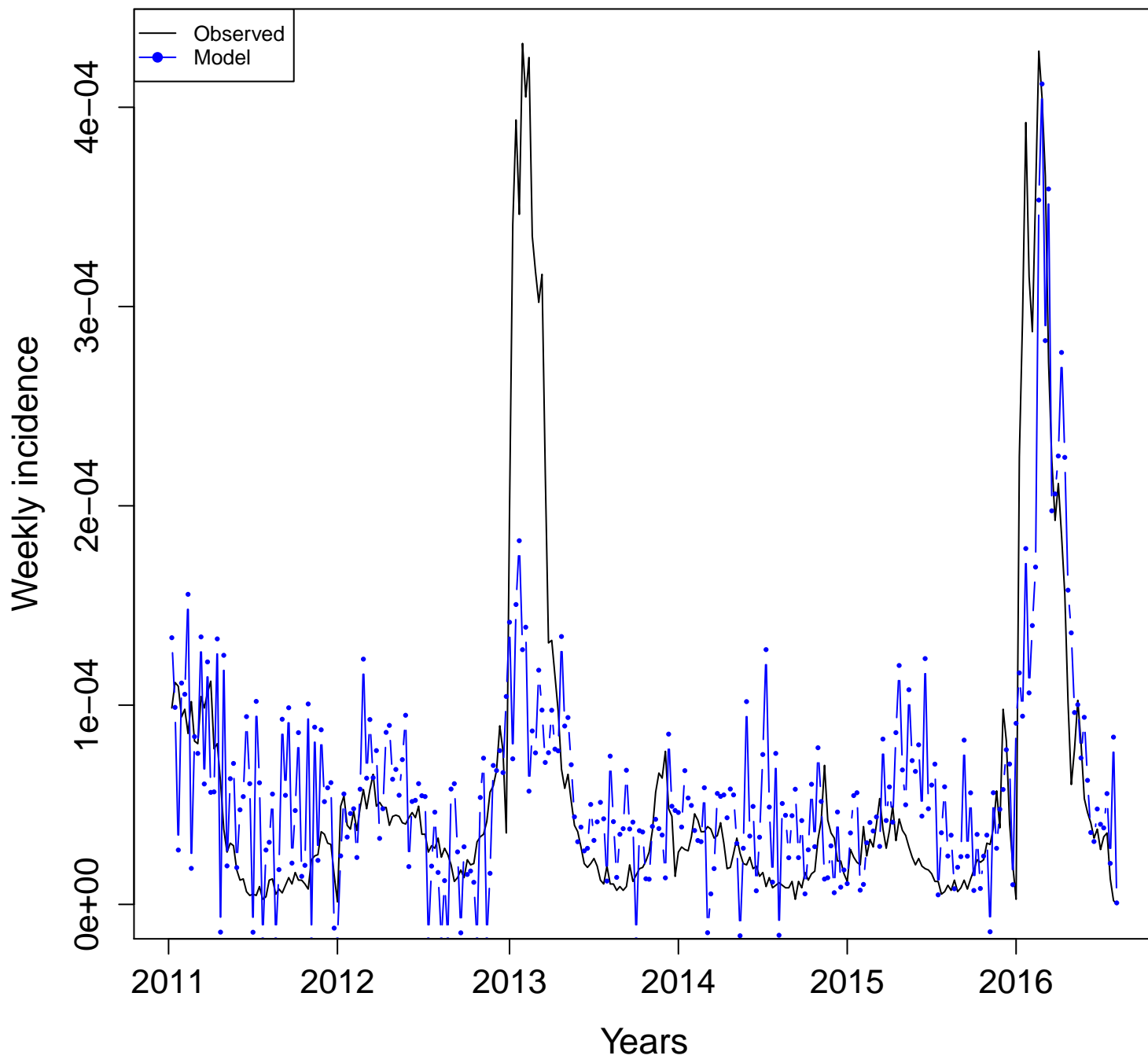


BR-RO
Adj. R squared = 0.5444



**Uncorrelated
(n = 4)**

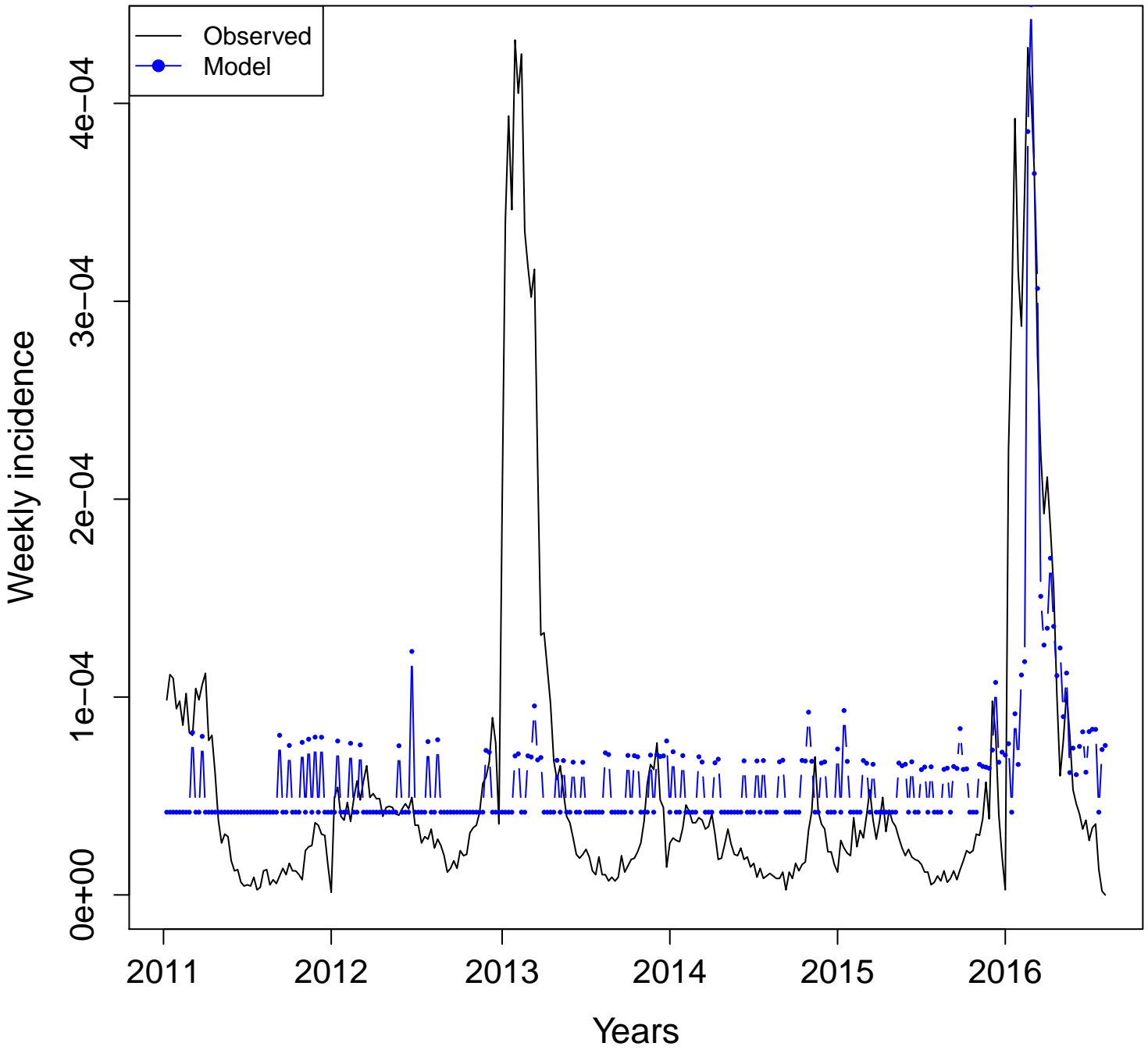
**BR-RO
Adj. R squared = 0.4155**



Individual terms
Adjusted R squared

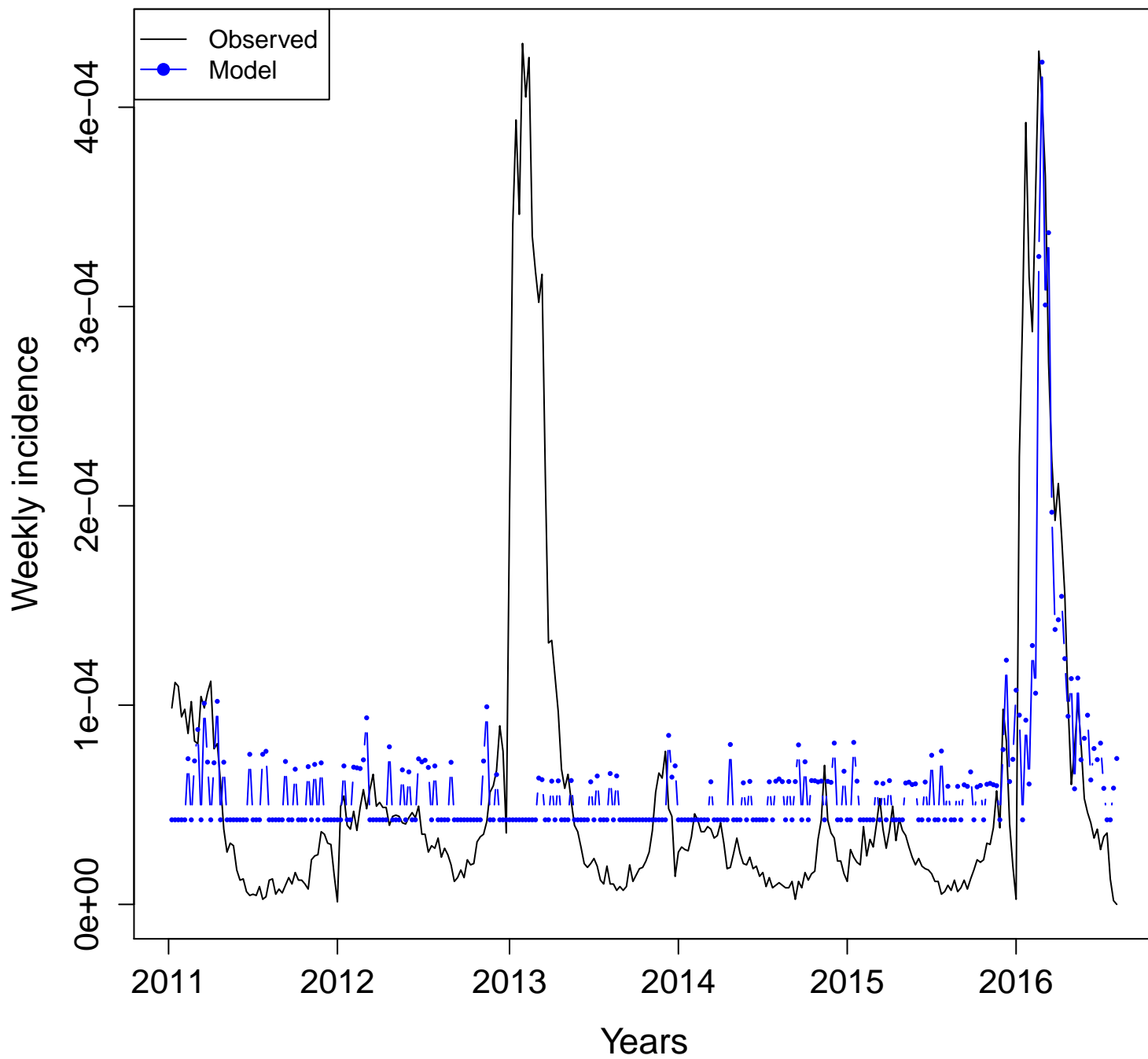
Rôndonia (RO)

RO- aedes.aegypti
Adj. R squared = 0.2445

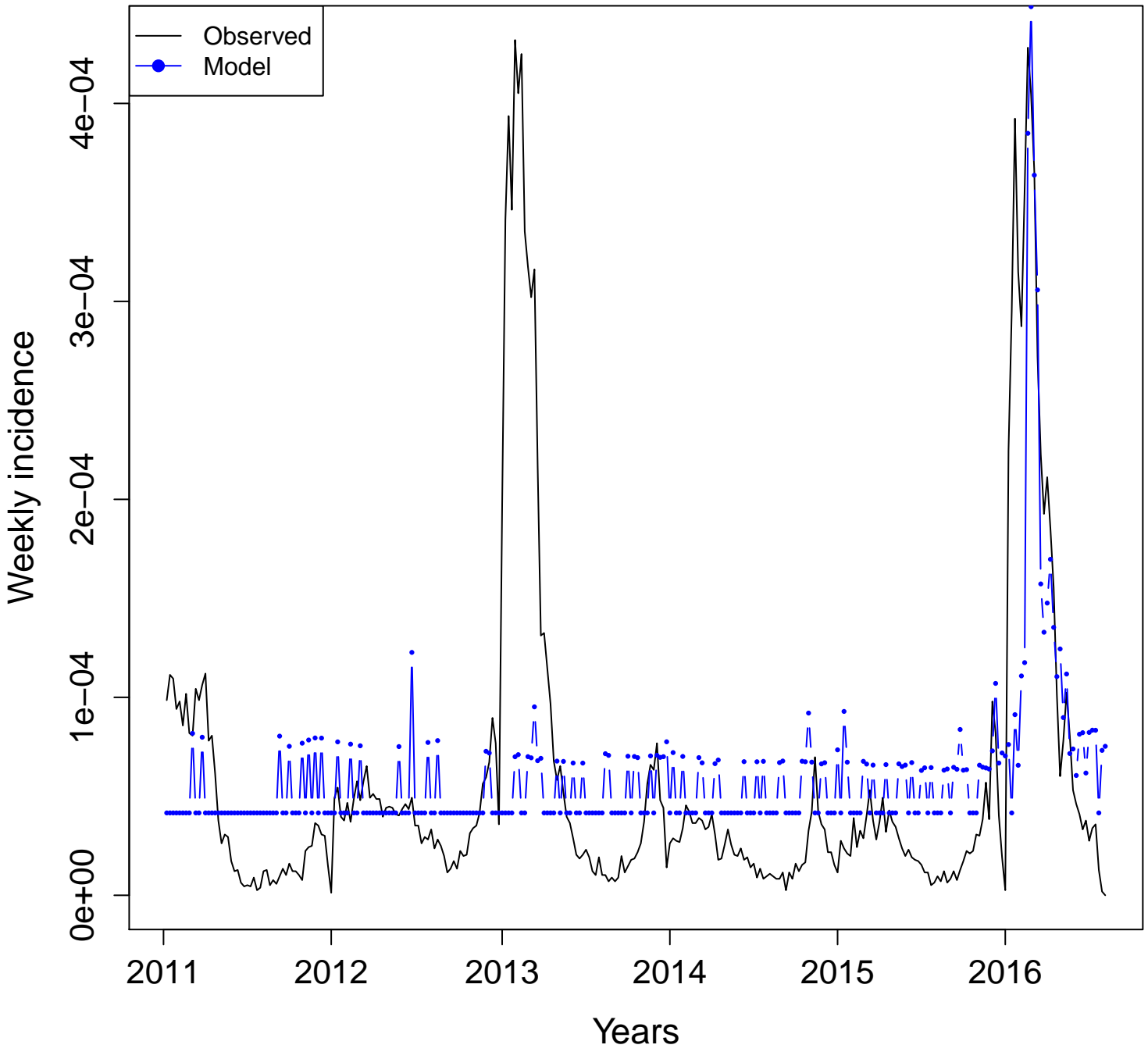


RO- aedes

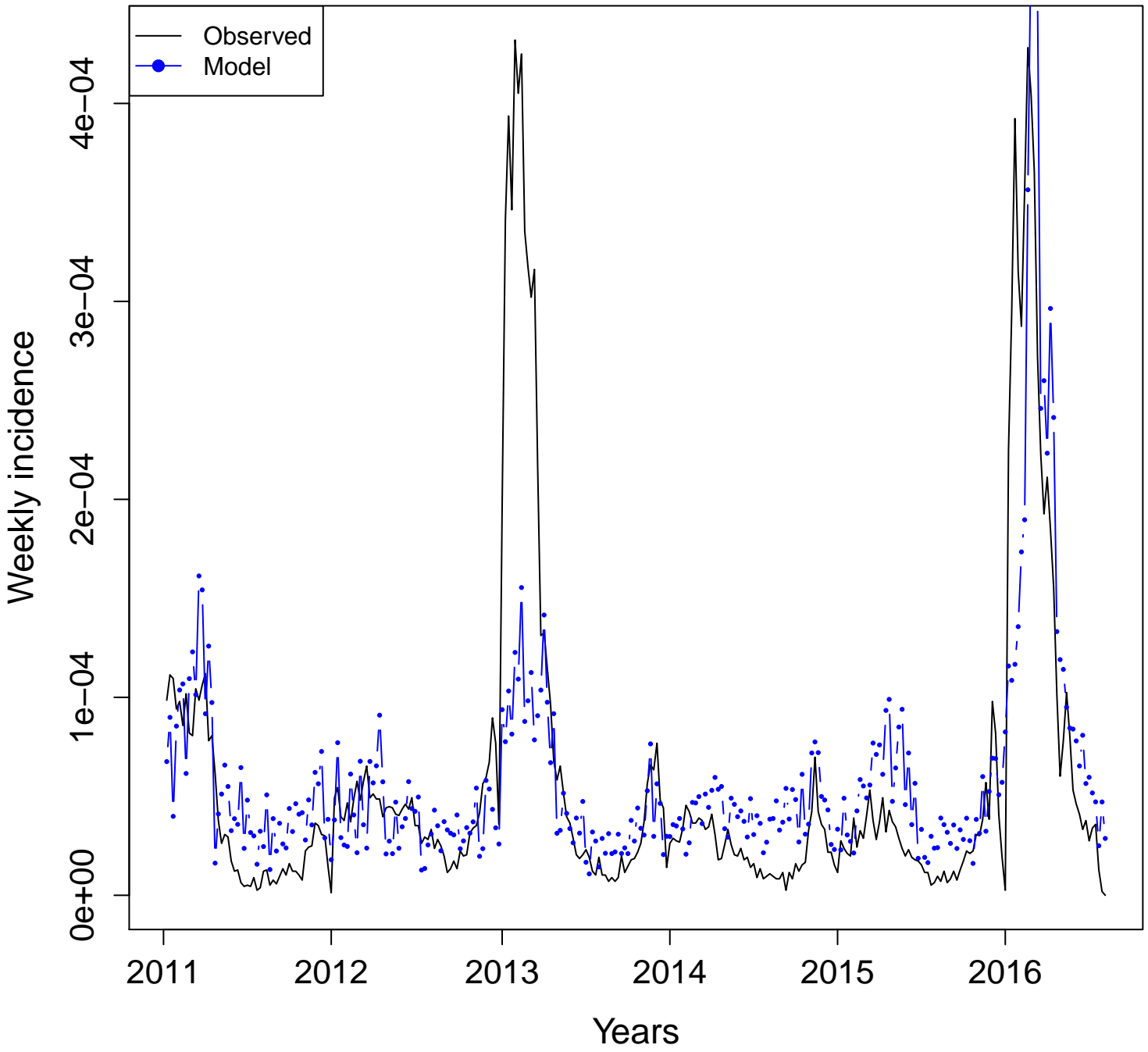
Adj. R squared = 0.211



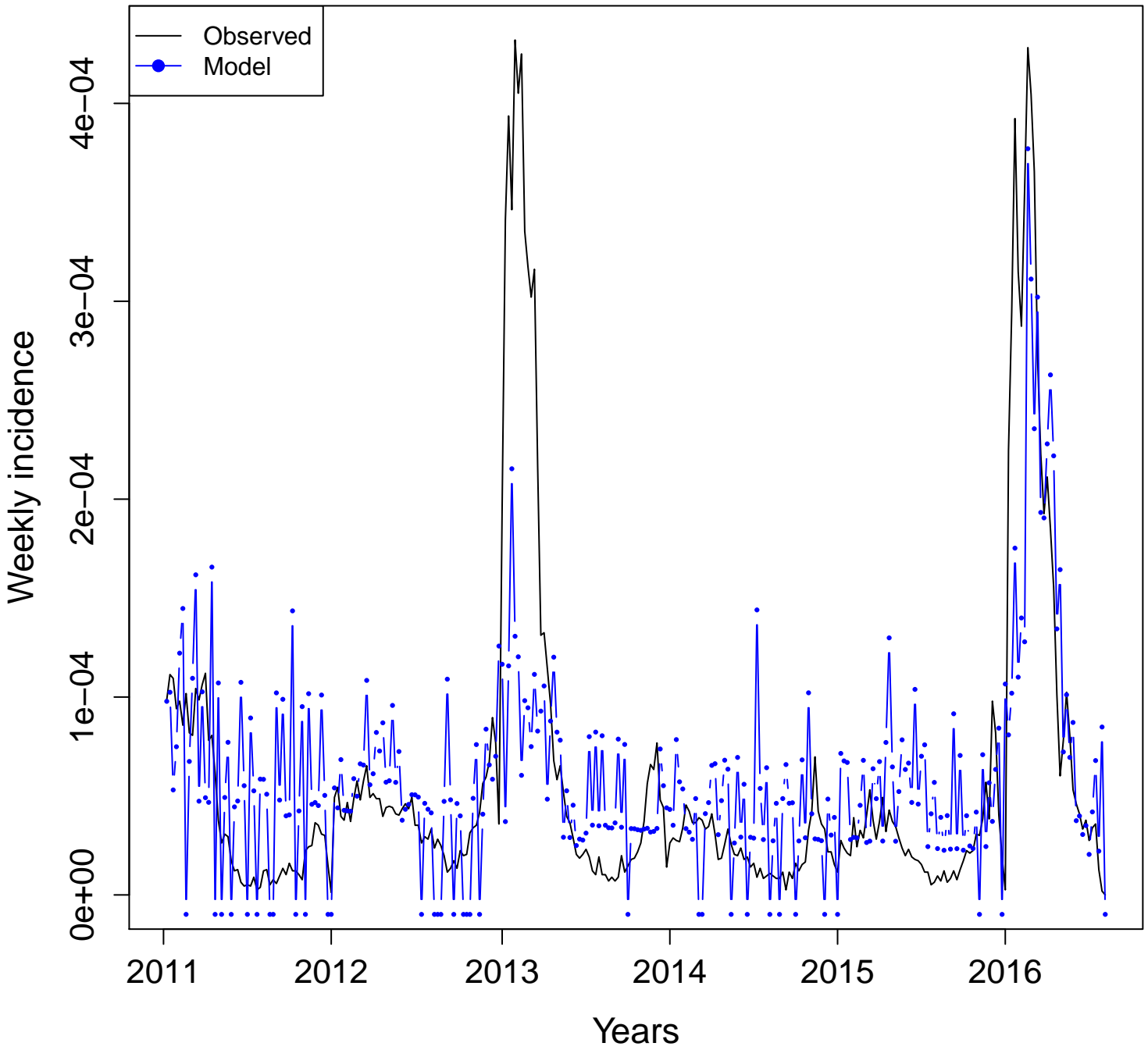
RO- aegypti
Adj. R squared = 0.2456



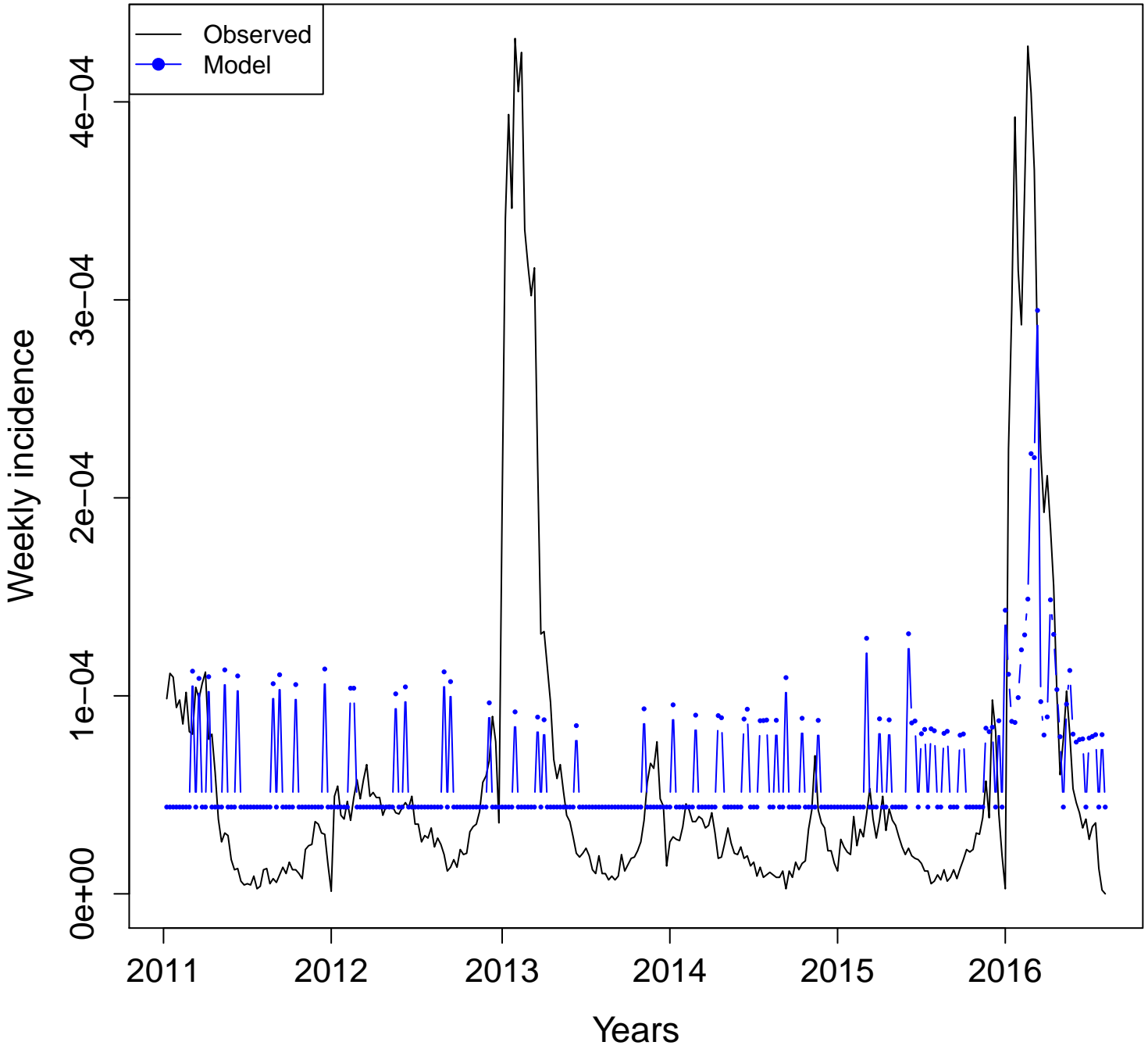
RO- dengue
Adj. R squared = 0.4793



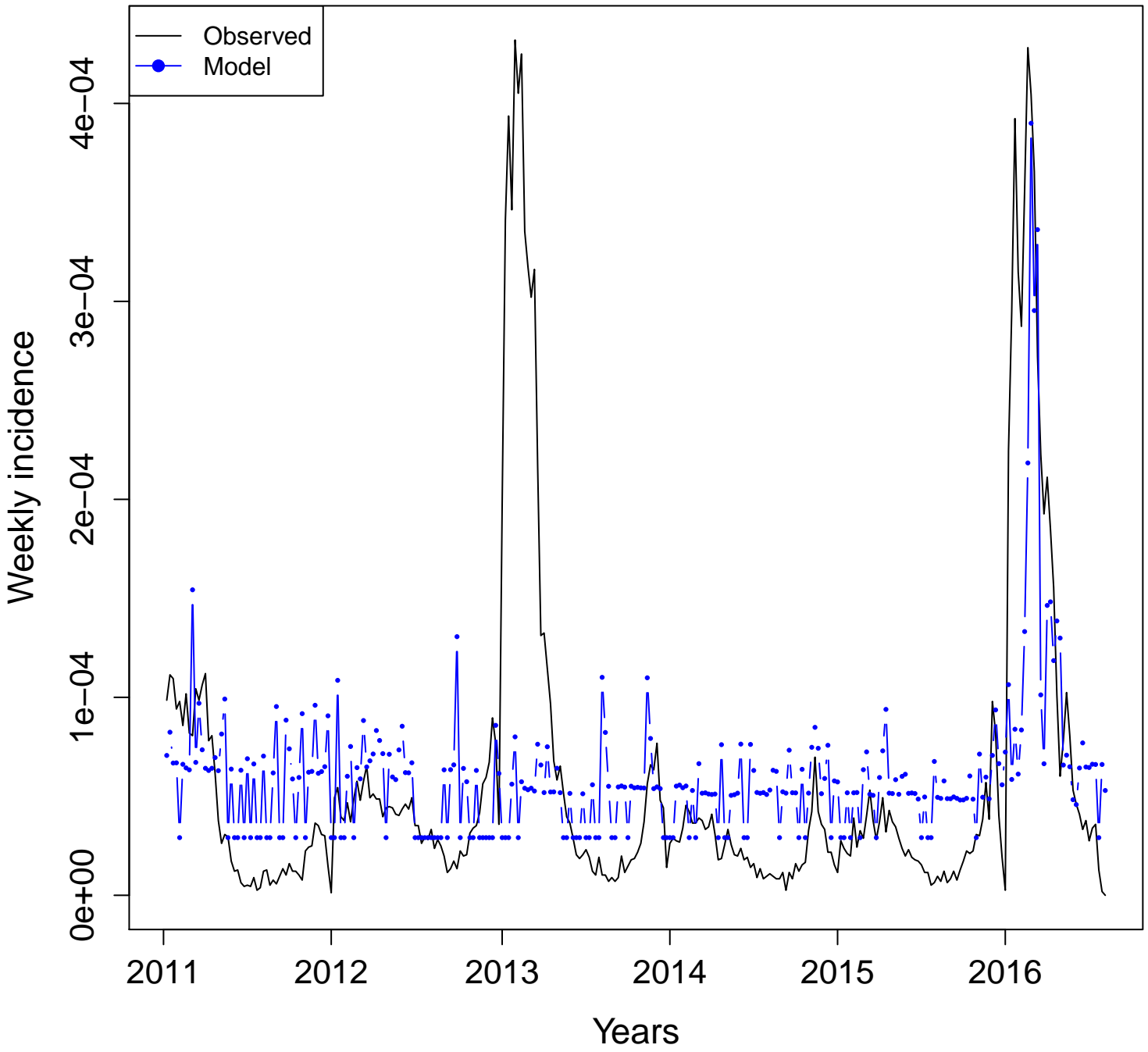
RO- dengue.sintomas
Adj. R squared = 0.3692



RO- dengue.virus
Adj. R squared = 0.1276

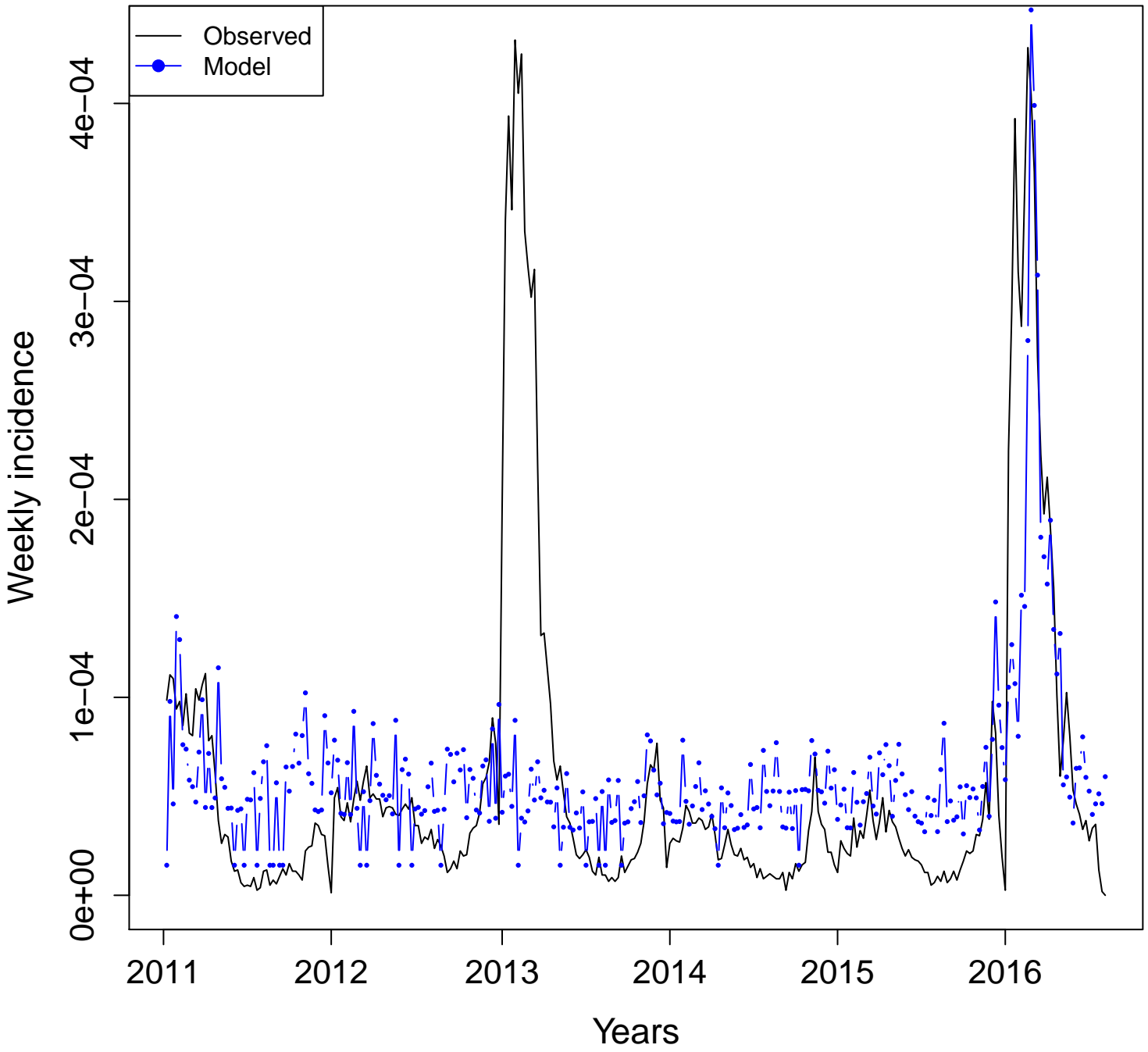


RO- mosquito.dengue
Adj. R squared = 0.1914

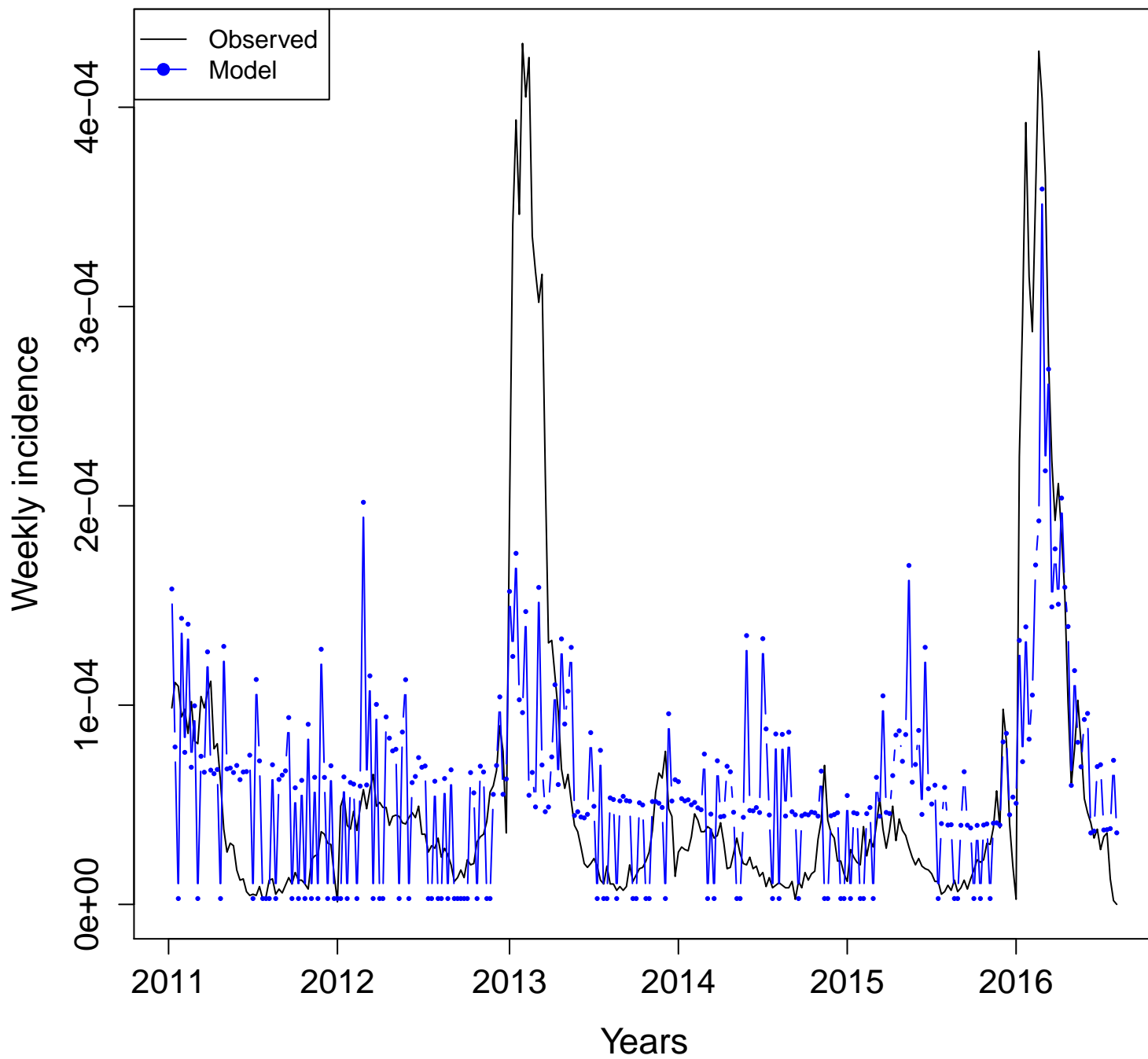


RO- mosquito

Adj. R squared = 0.2692



RO- sintomas.da.dengue
Adj. R squared = 0.3108



Roraima (RR)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

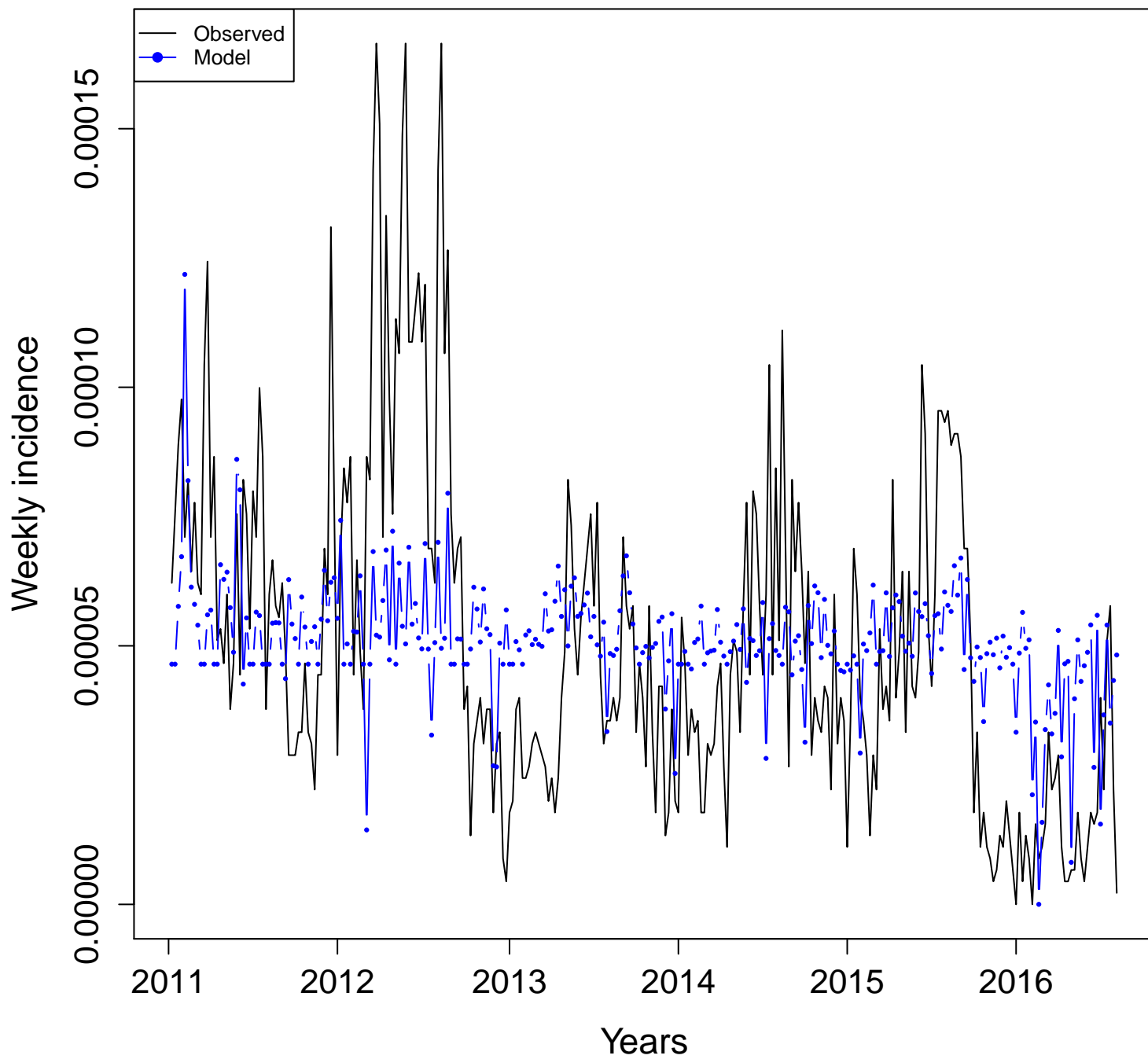
- **Combined terms:**
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 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. n = number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

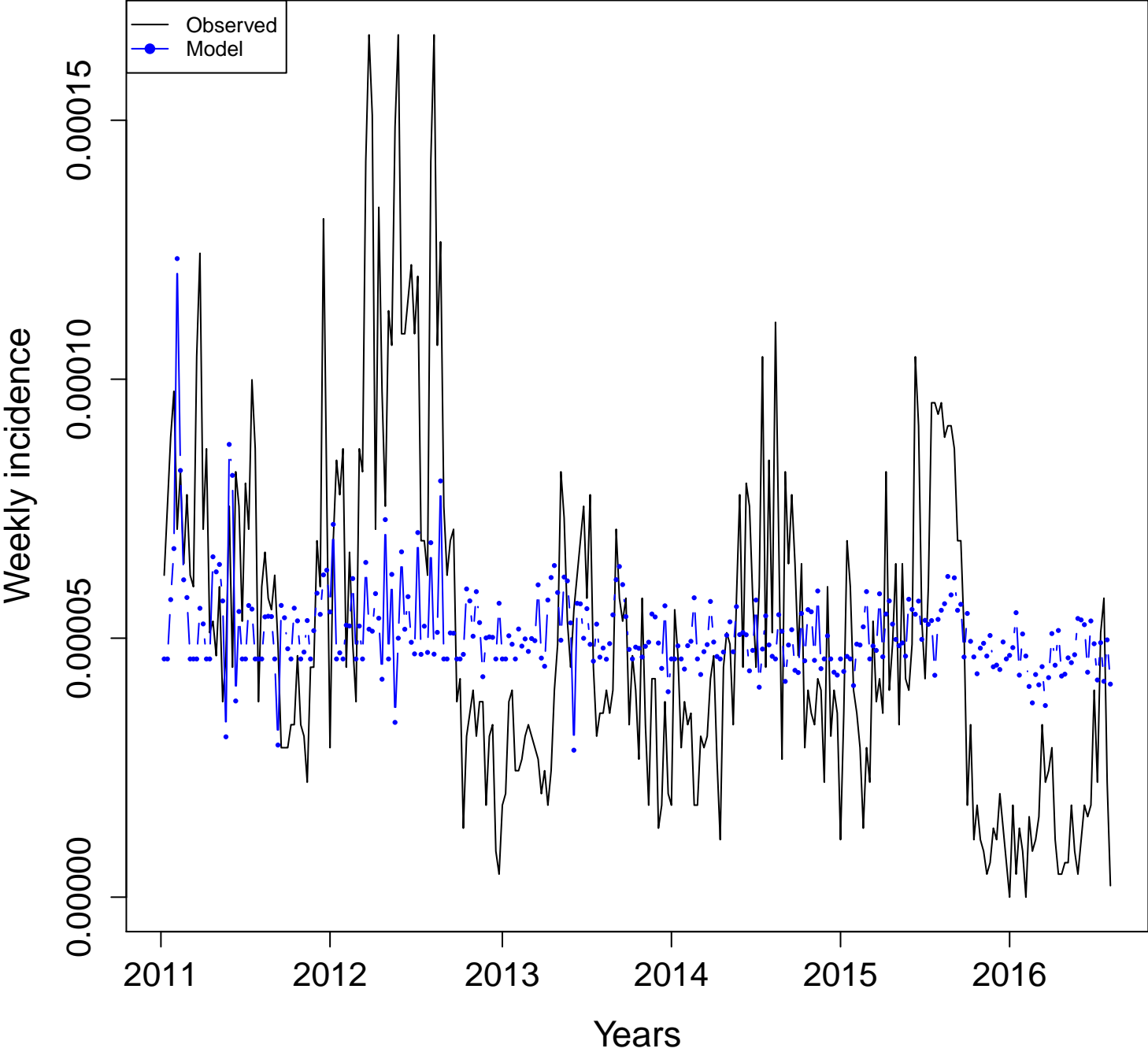
Roraima (RR)

All
(n = 7)

BR-RR
Adj. R squared = 0.0933

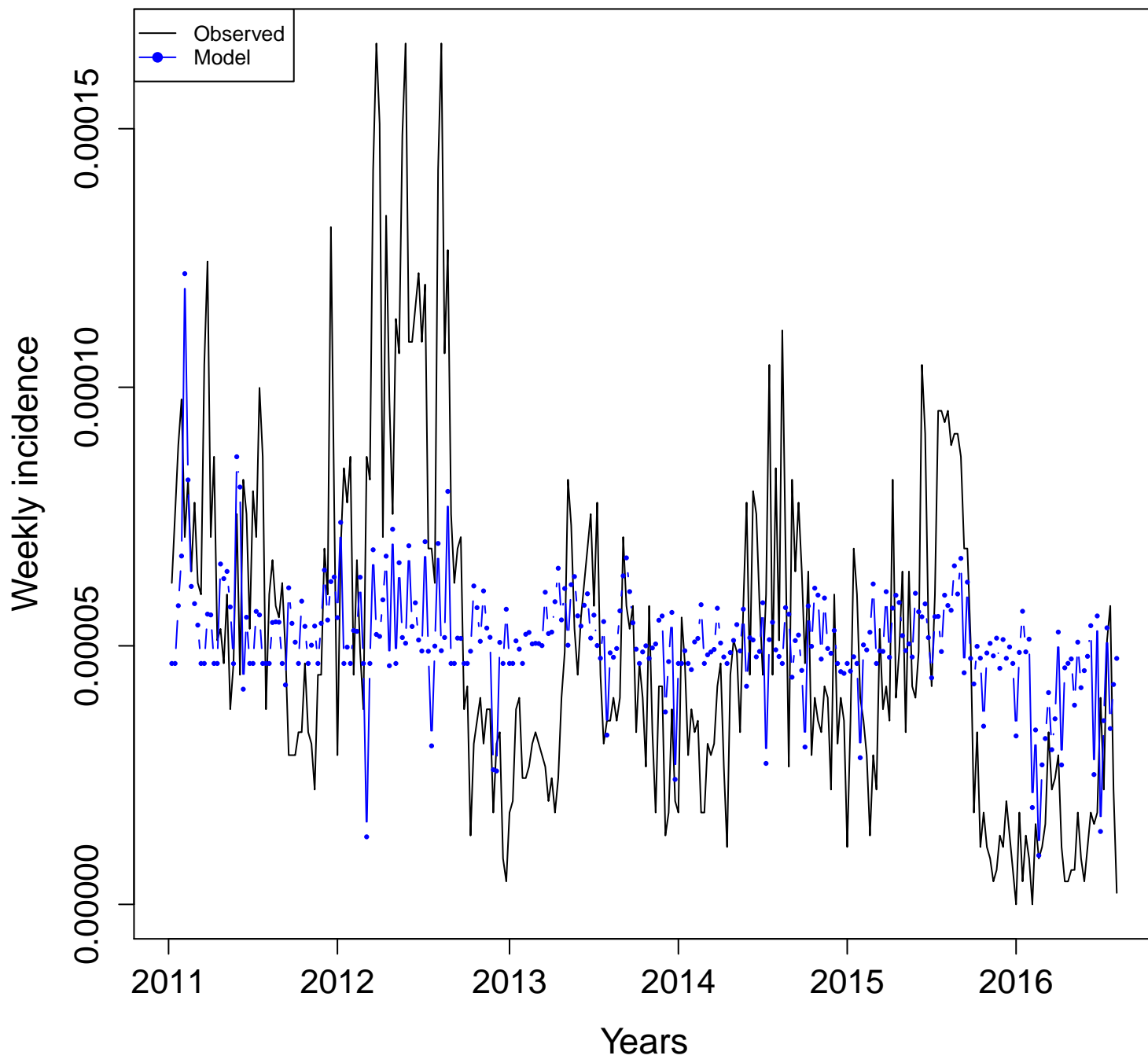


BR-RR
Adj. R squared = 0.0575



**Uncorrelated
(n = 6)**

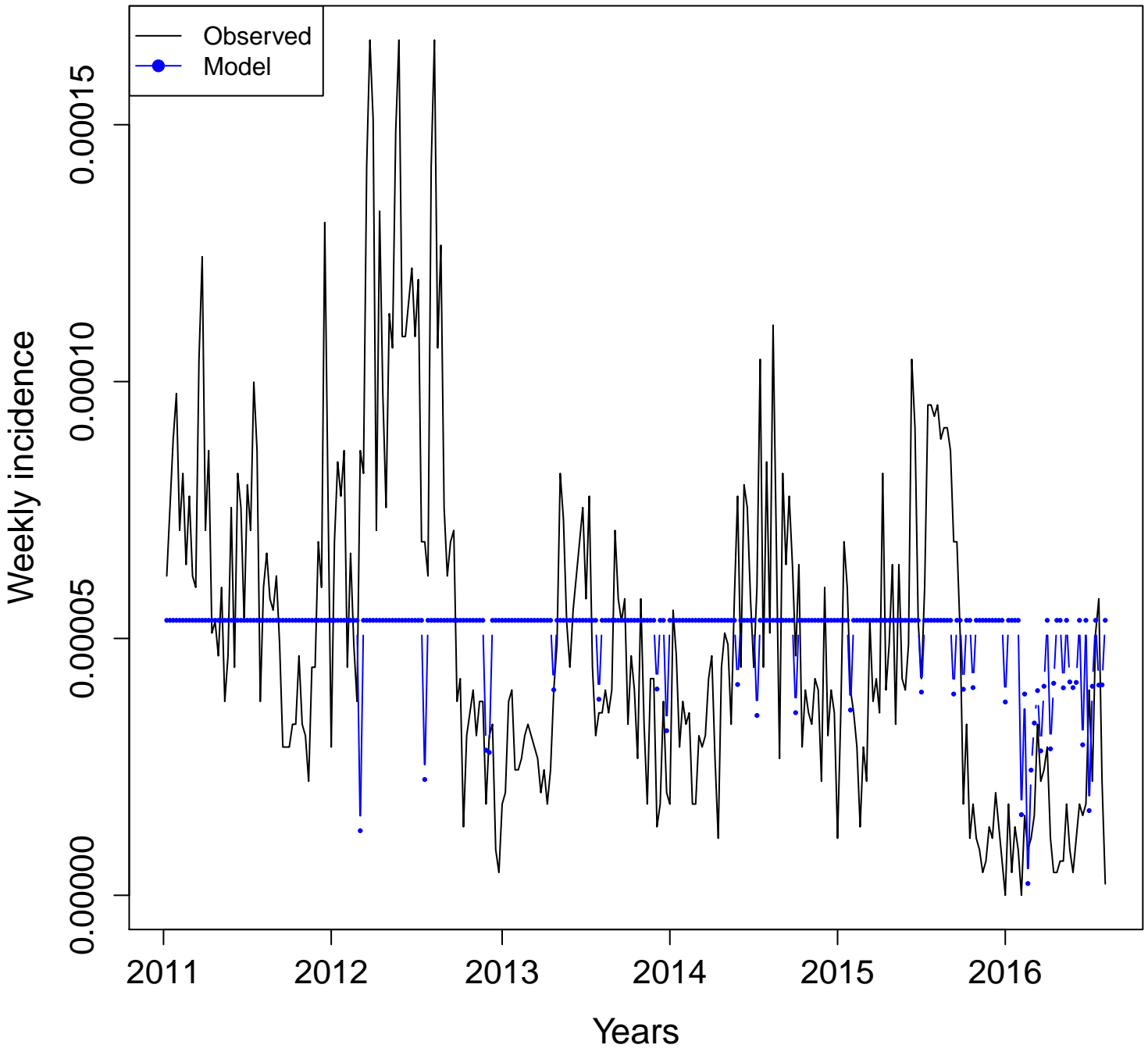
**BR-RR
Adj. R squared = 0.0905**



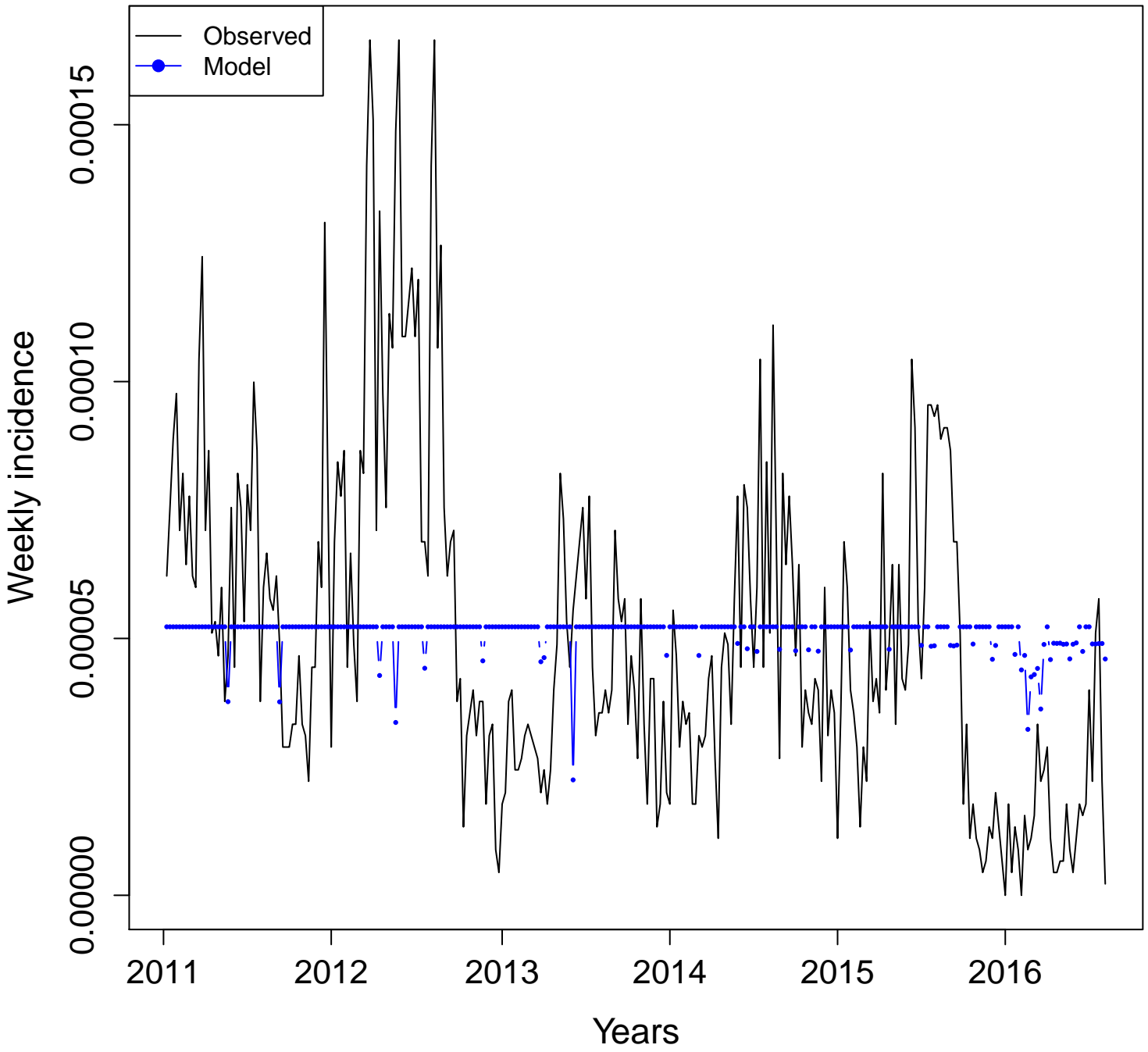
Individual terms
Adjusted R squared

Roraima (RR)

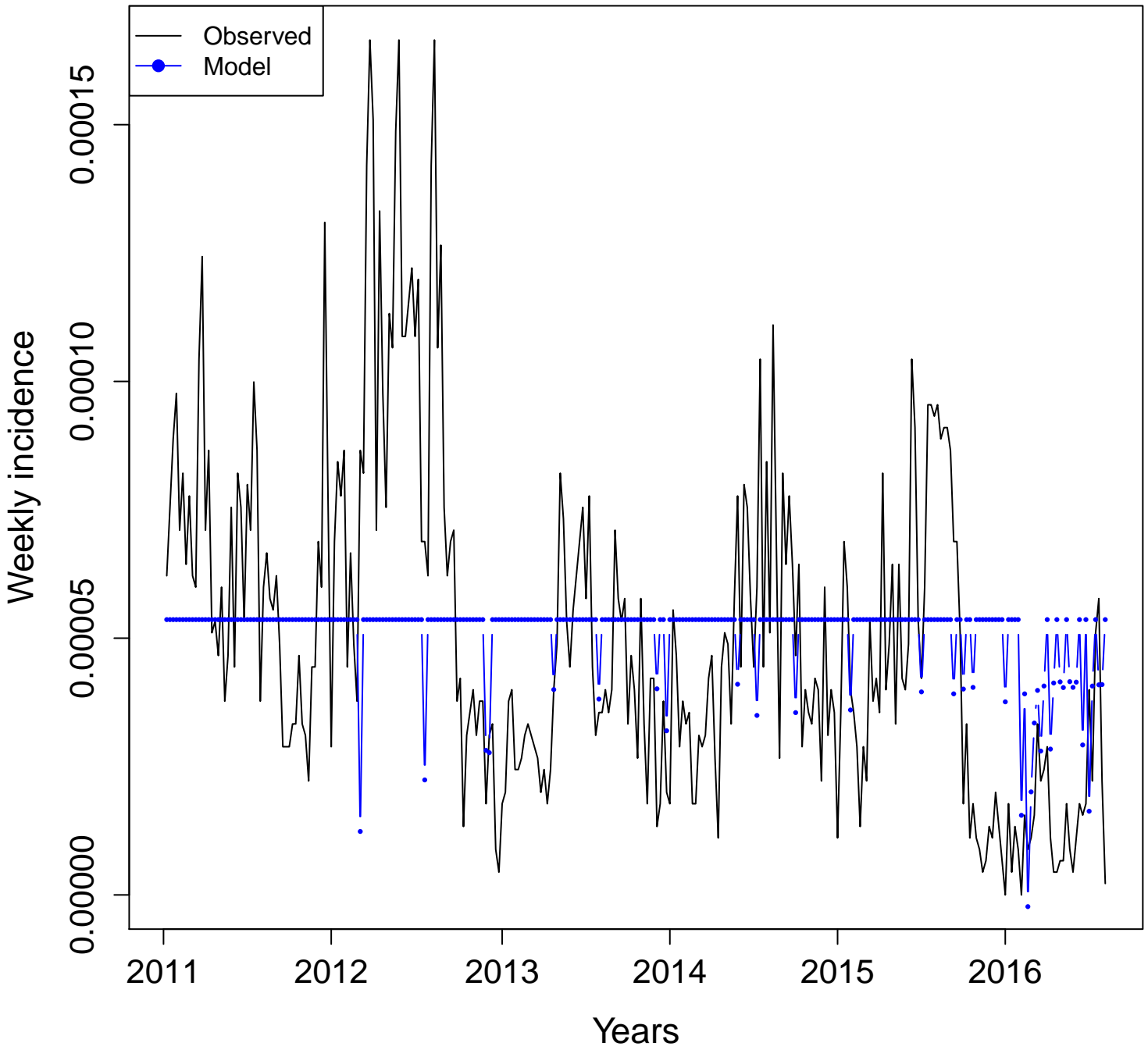
RR- aedes.aegypti
Adj. R squared = 0.0465



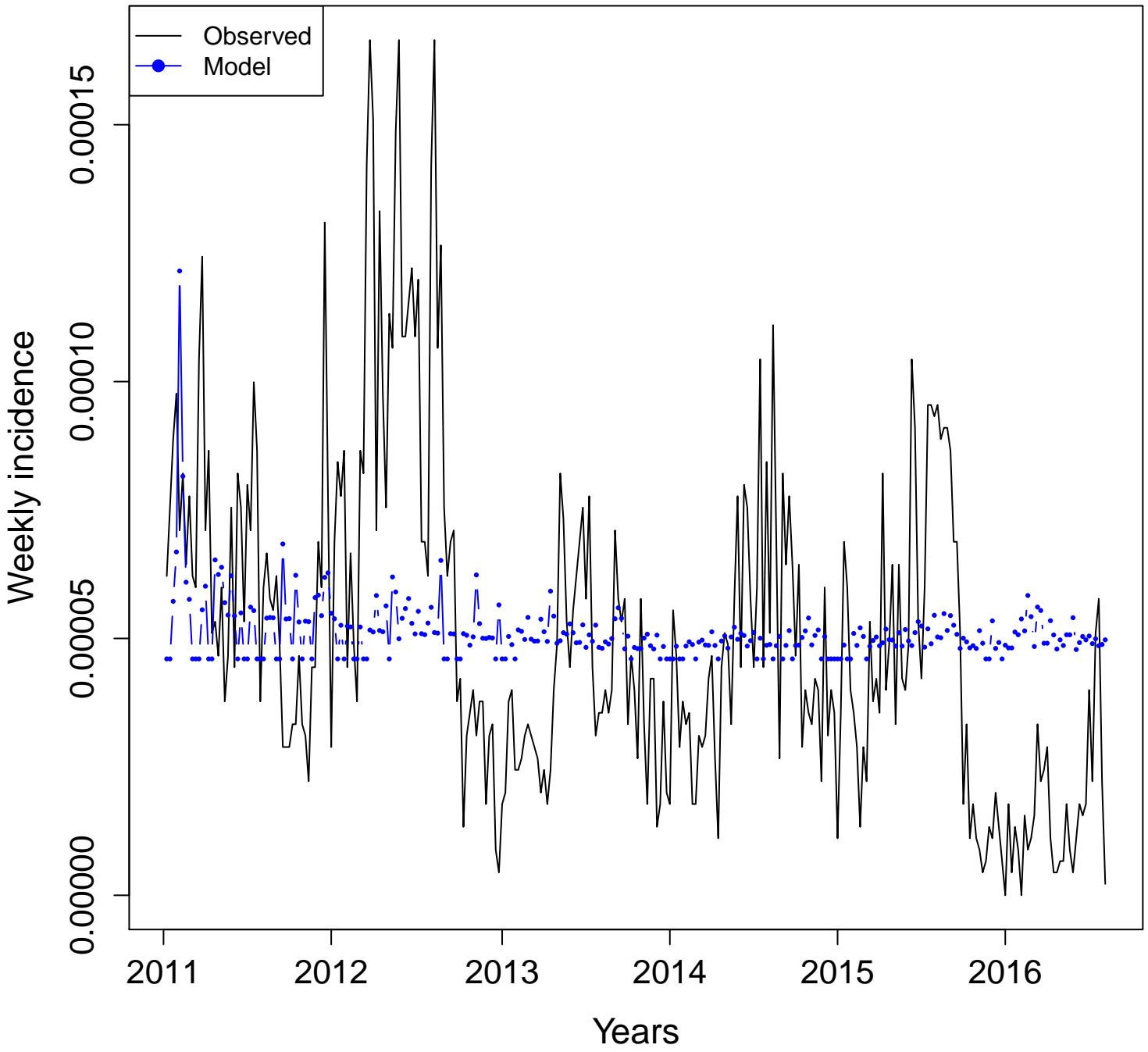
RR- aedes
Adj. R squared = 0.0068



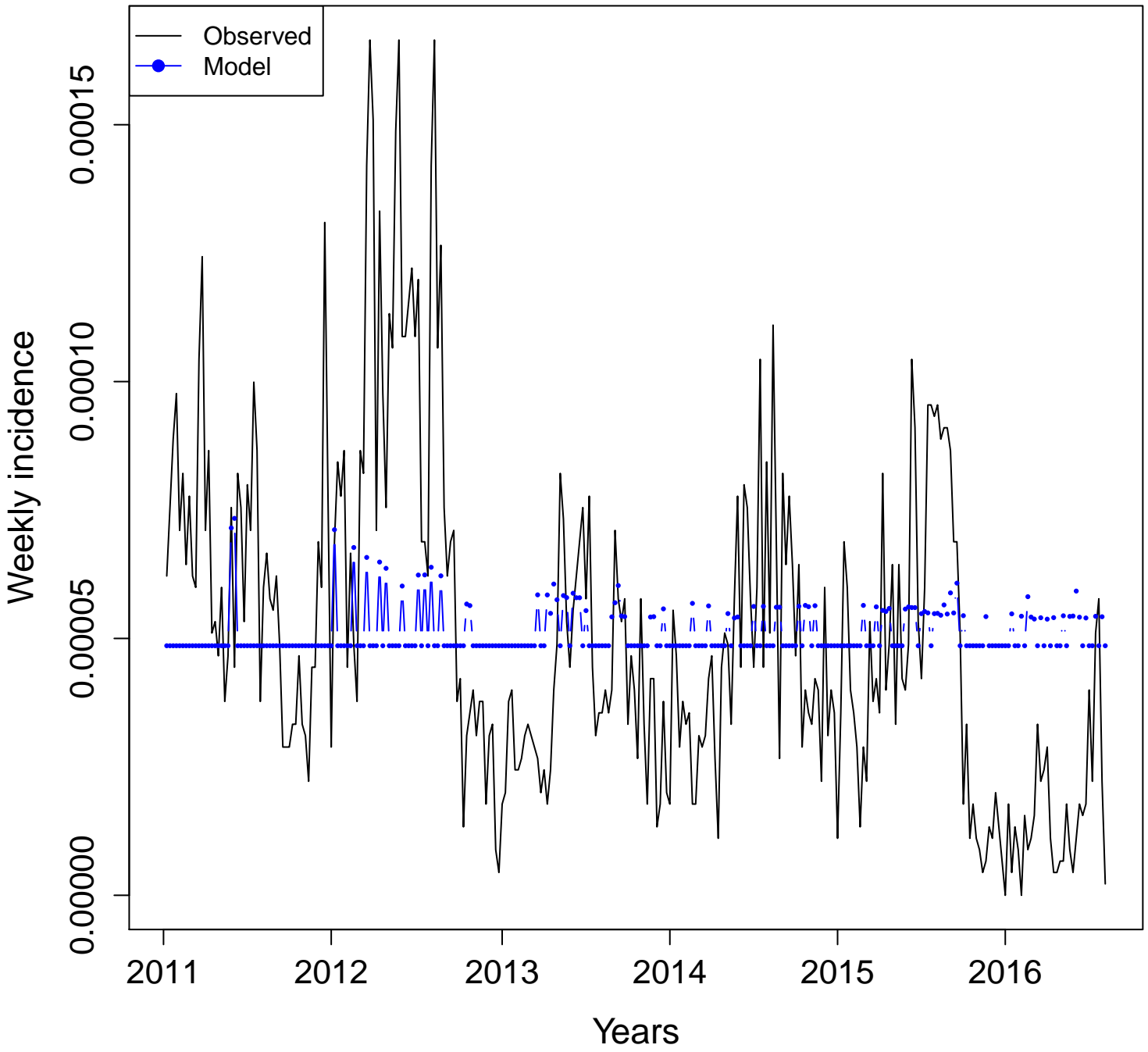
RR- aegypti
Adj. R squared = 0.0497



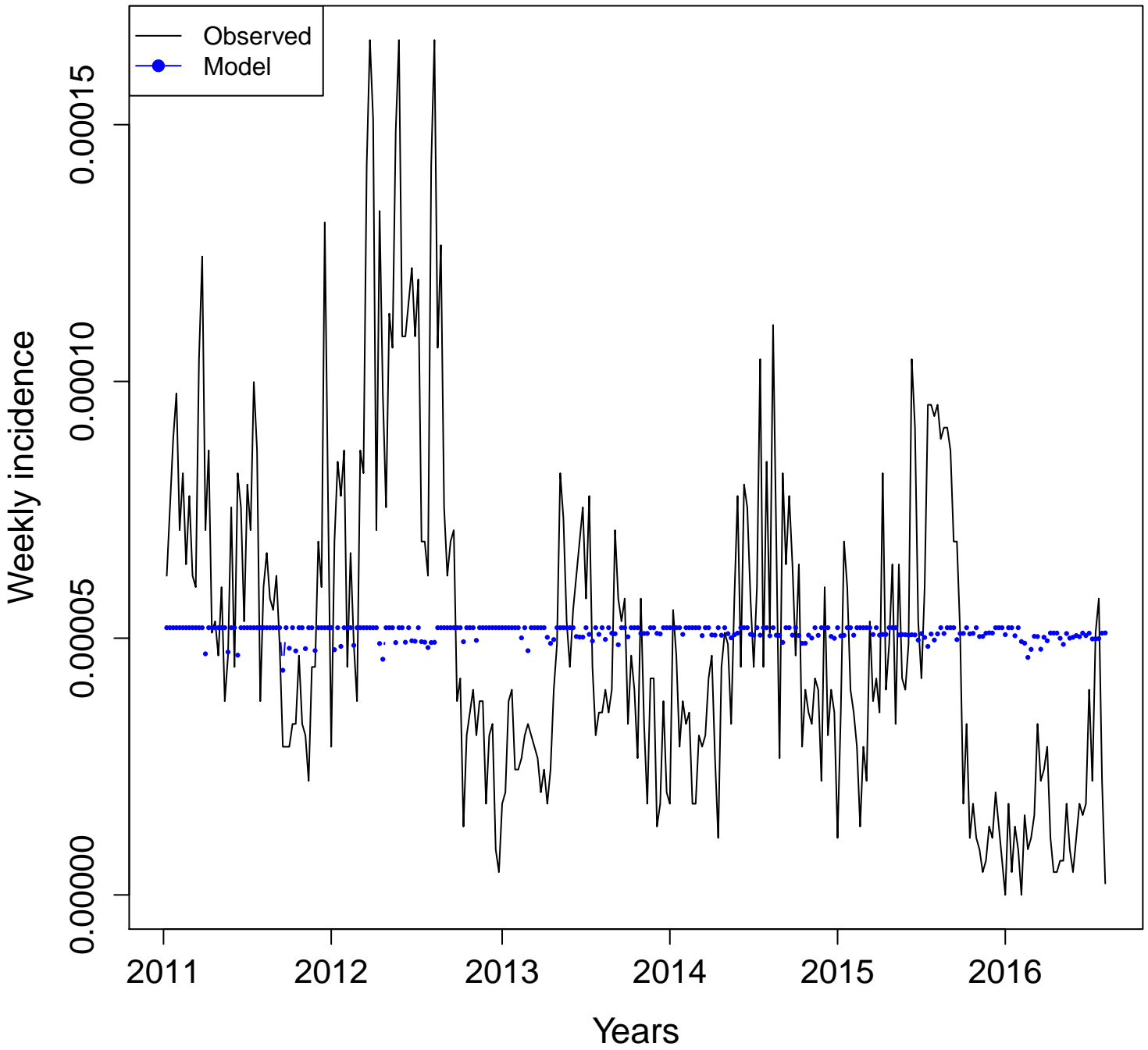
RR- dengue
Adj. R squared = 0.0318



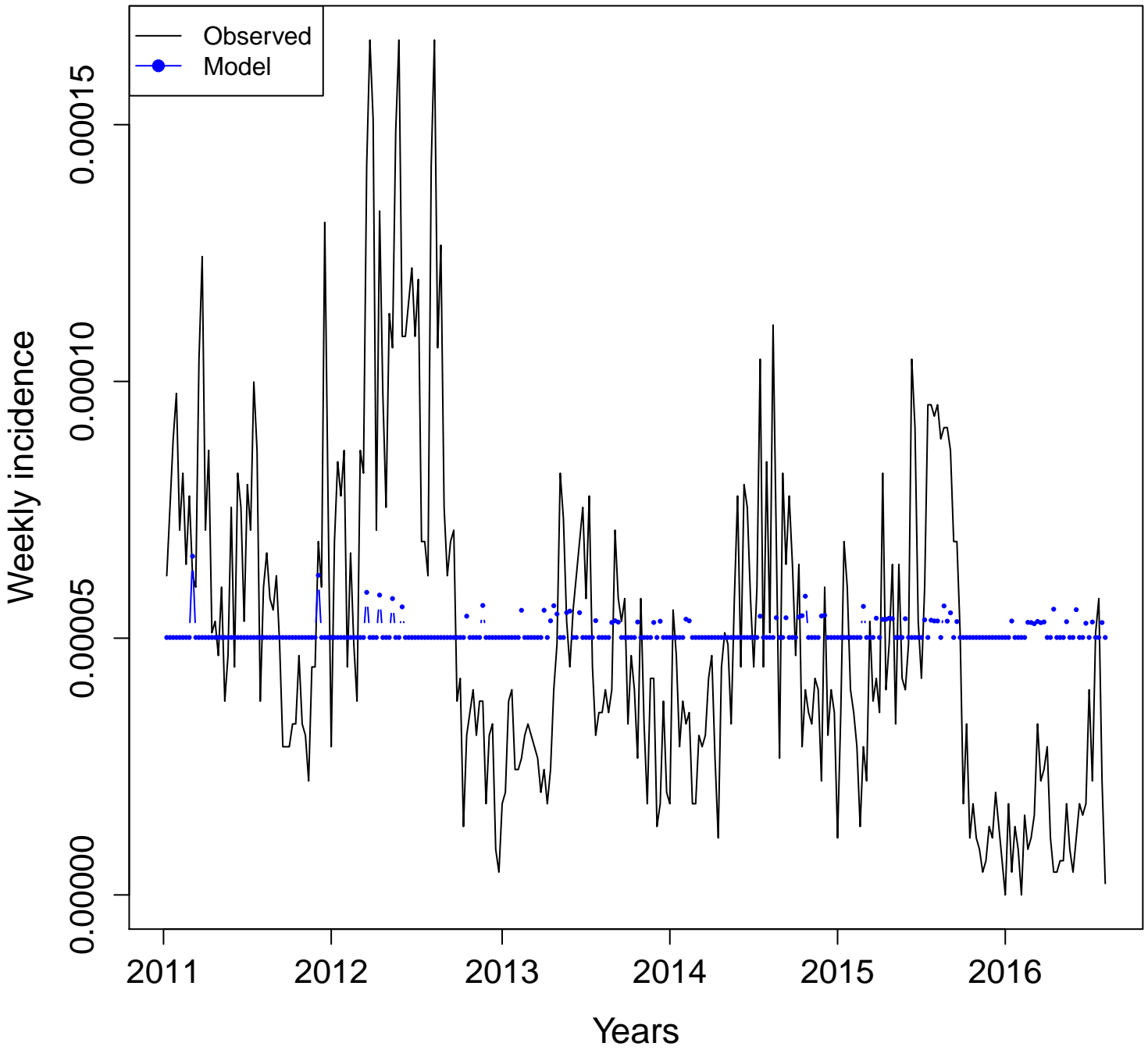
RR- dengue.sintomas
Adj. R squared = 0.0155



RR- mosquito
Adj. R squared = -0.0017



RR- sintomas.da.dengue
Adj. R squared = 7e-04



Rio Grande do Sul (RS)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

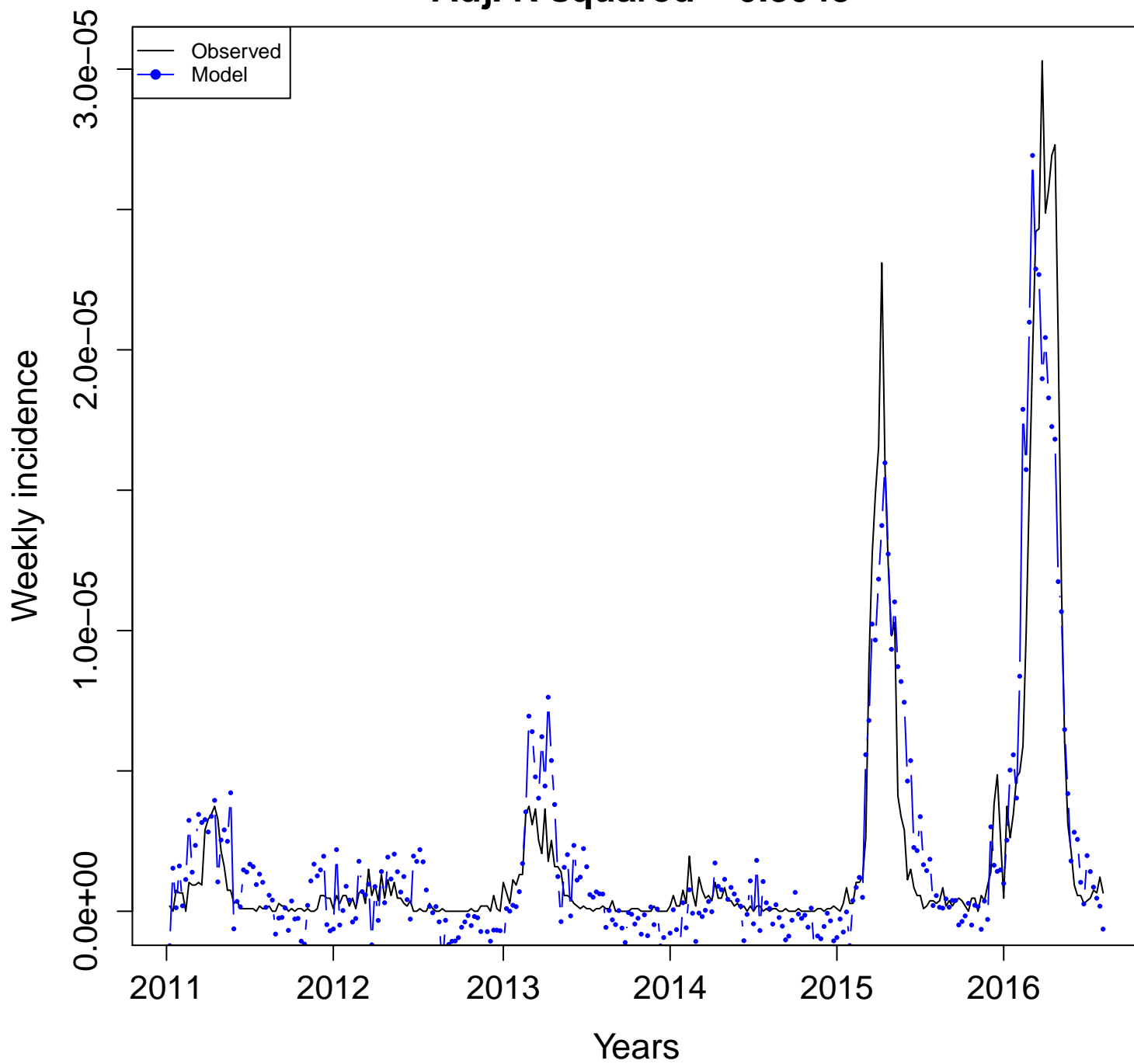
- **Combined terms:**
 - **All:** model with all the available terms. $n =$ number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. $n =$ number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

**Combined terms
Adjusted R squared**

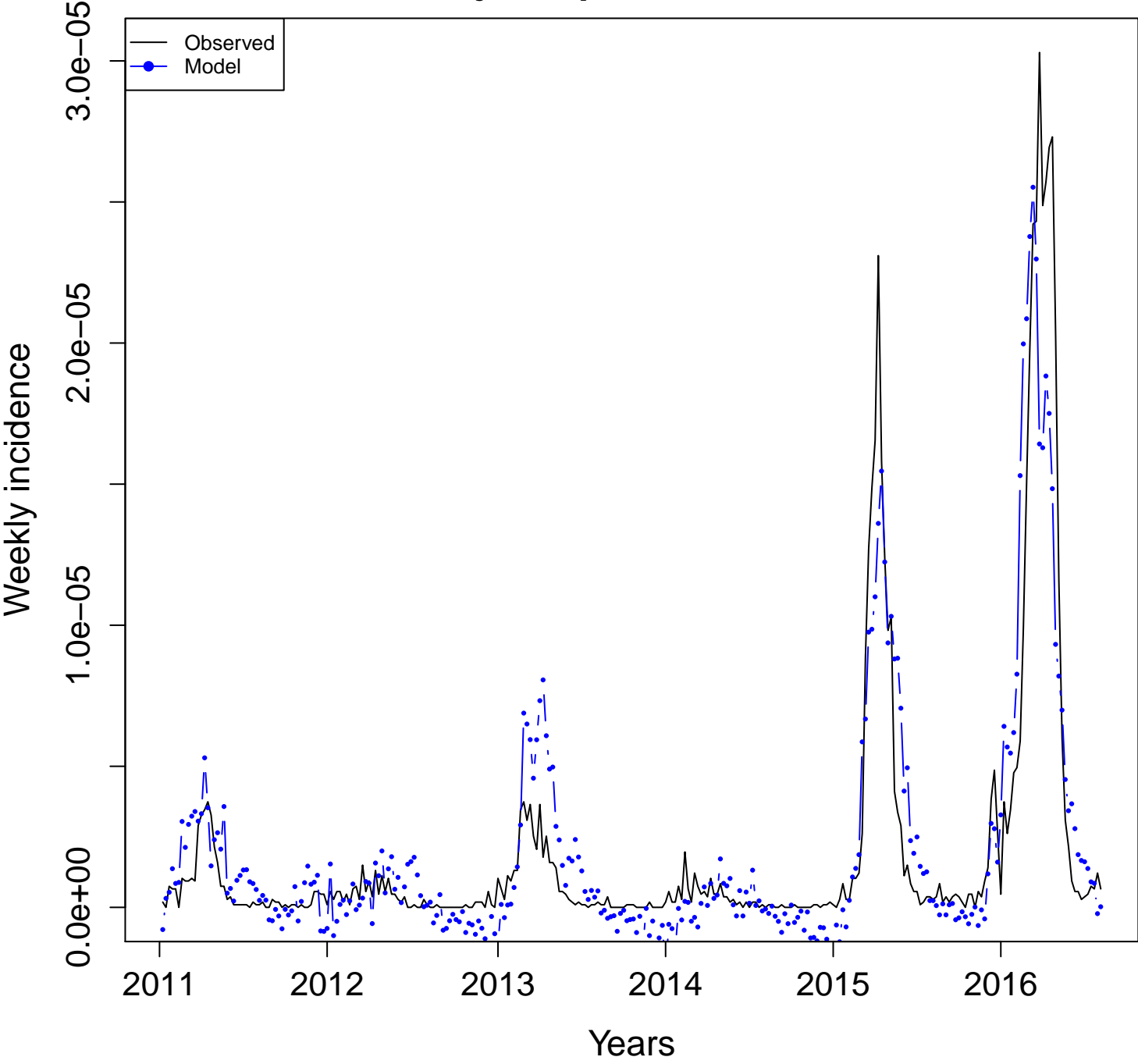
**Rio Grande do Sul
(RS)**

All
(n = 12)

BR-RS
Adj. R squared = 0.8043

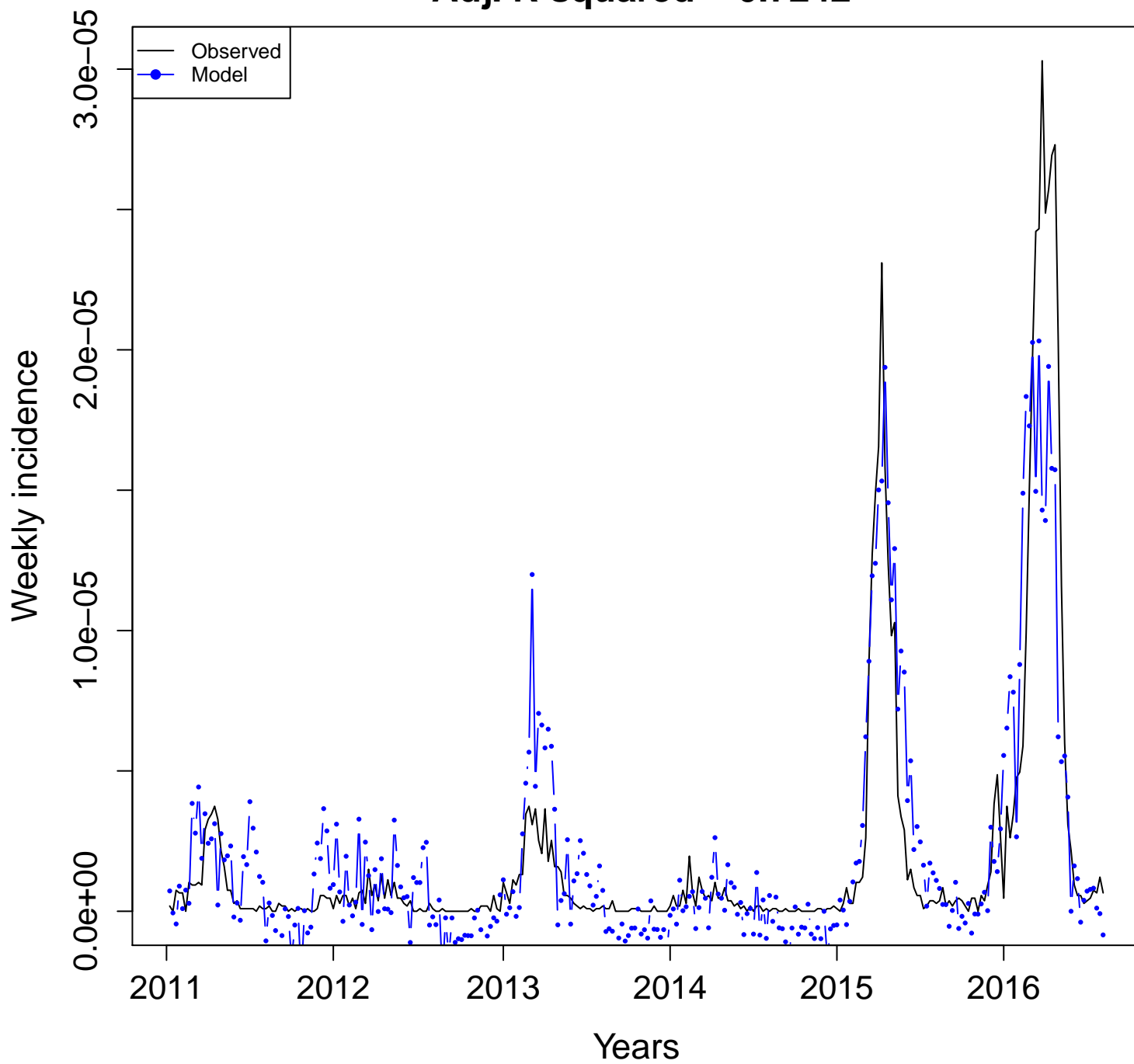


BR-RS
Adj. R squared = 0.7786



**Uncorrelated
(n = 4)**

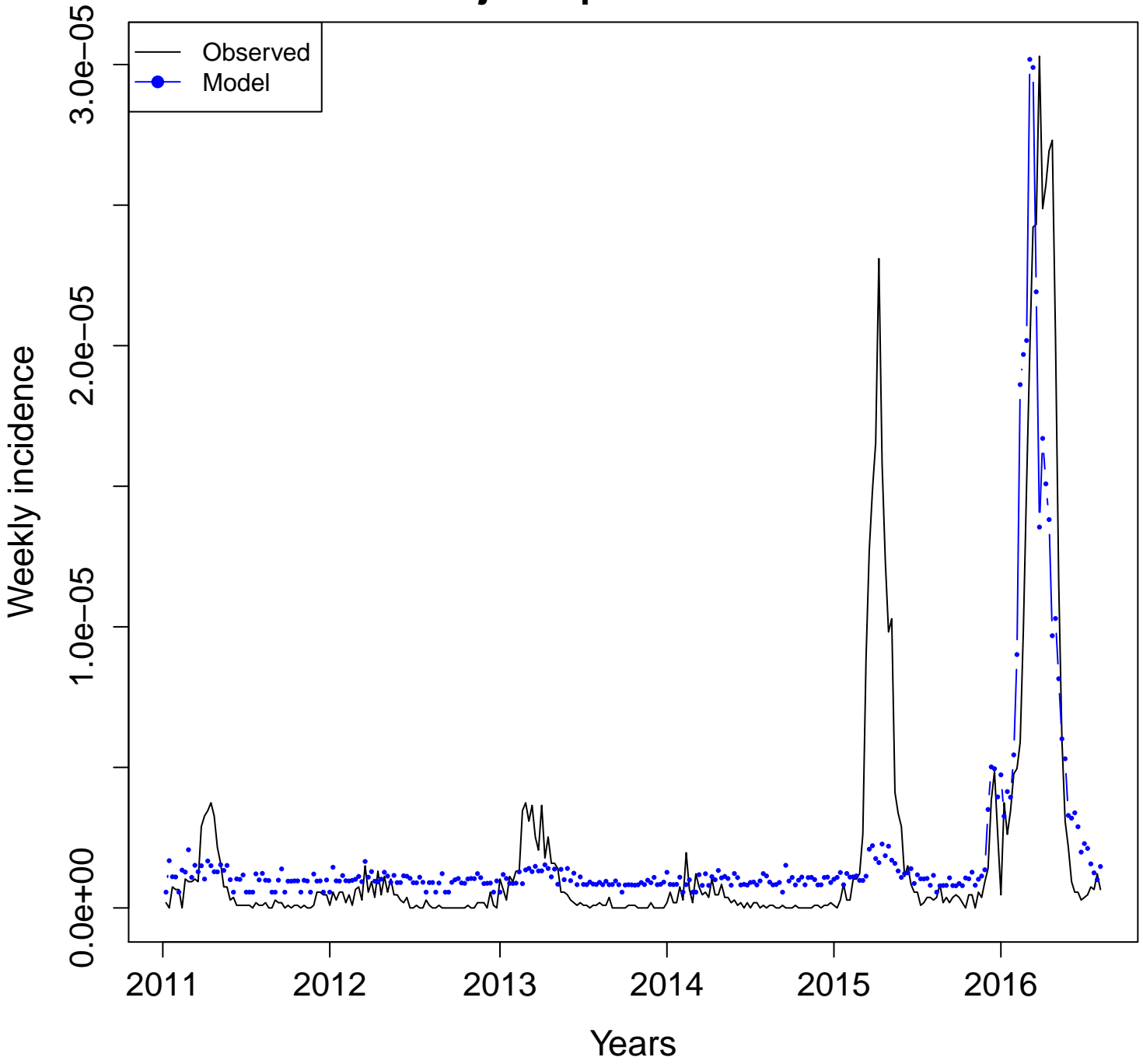
**BR-RS
Adj. R squared = 0.7242**



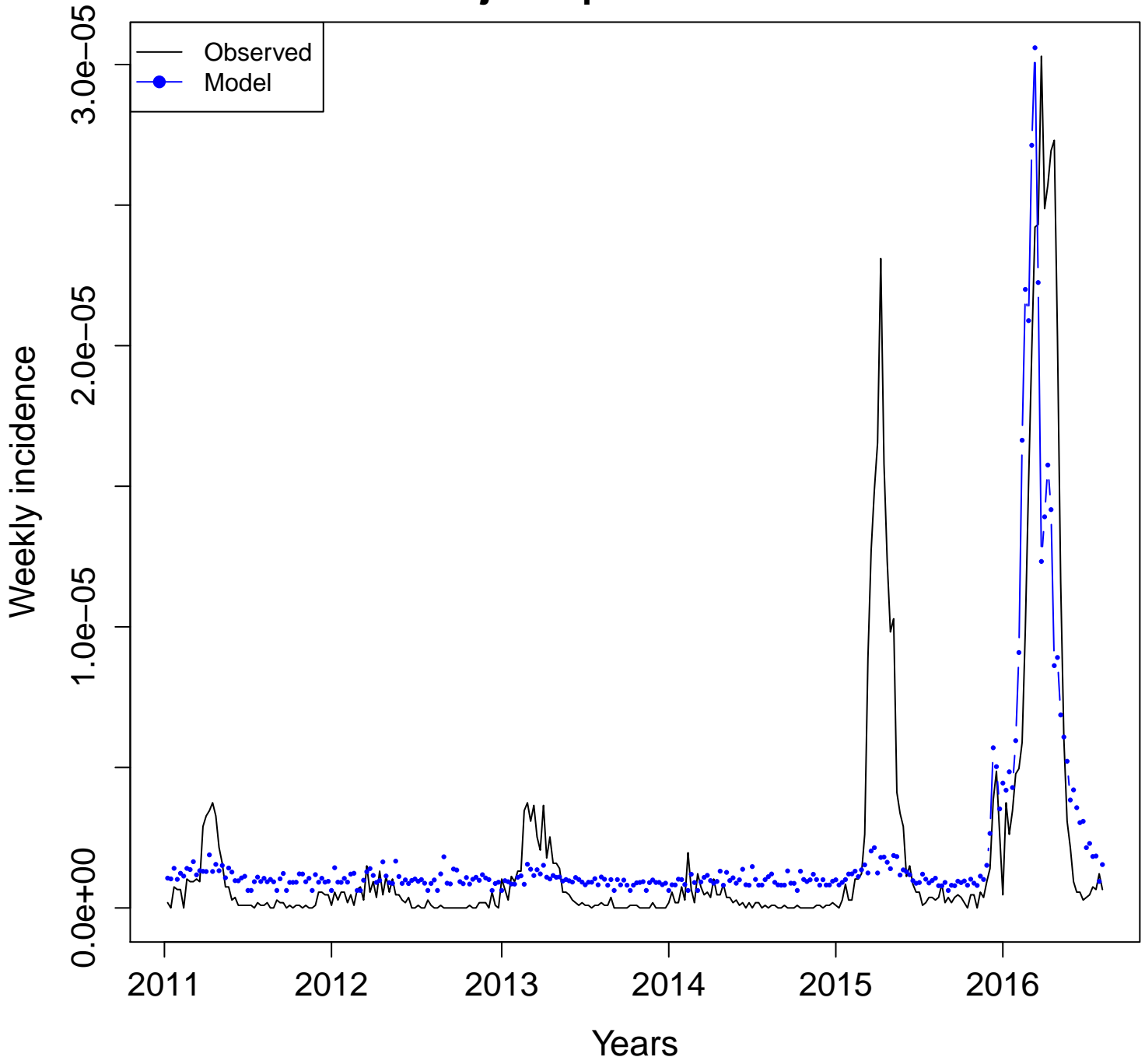
Individual terms
Adjusted R squared

Rio Grande do Sul
(RS)

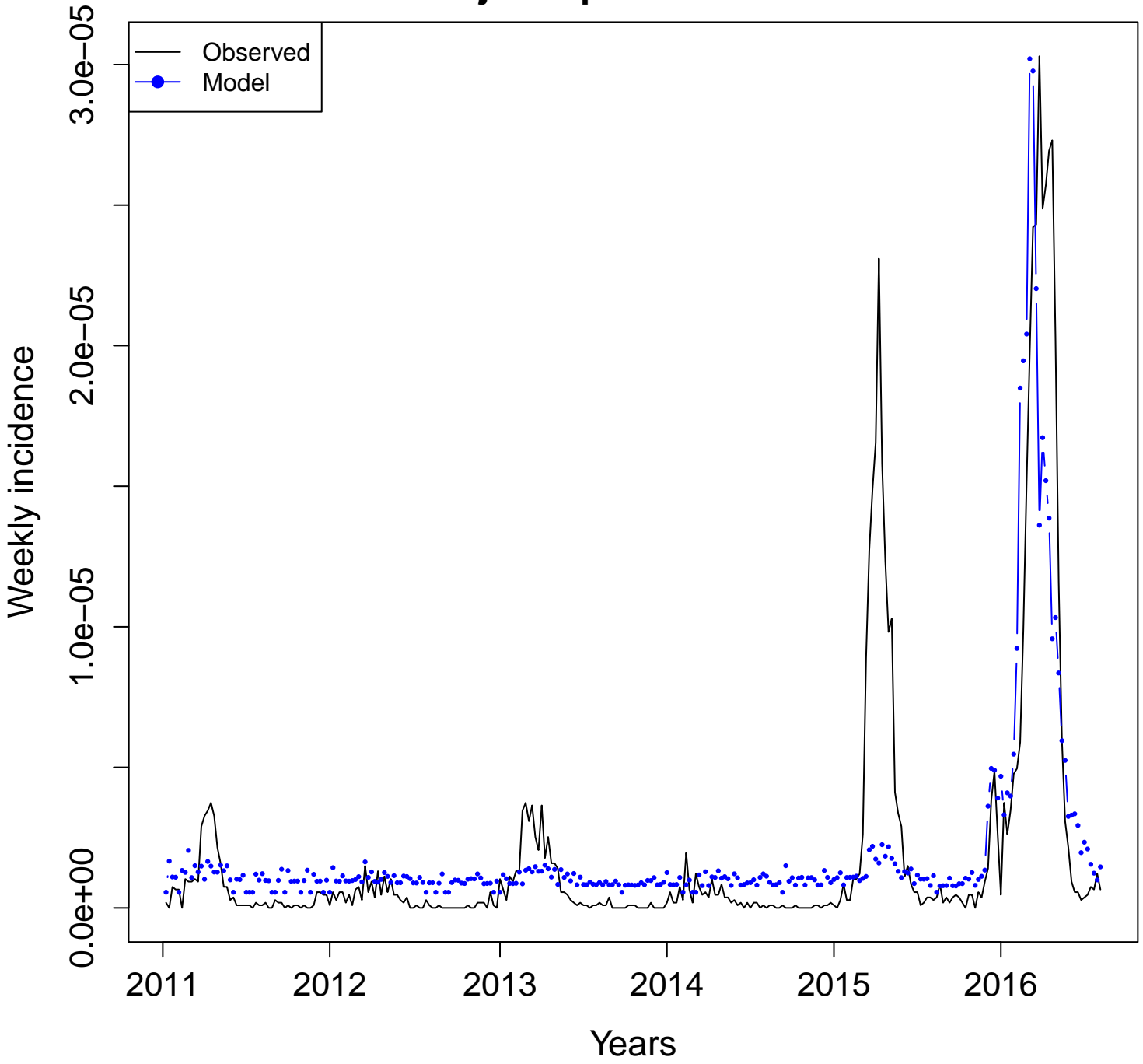
RS- aedes.aegypti
Adj. R squared = 0.5611



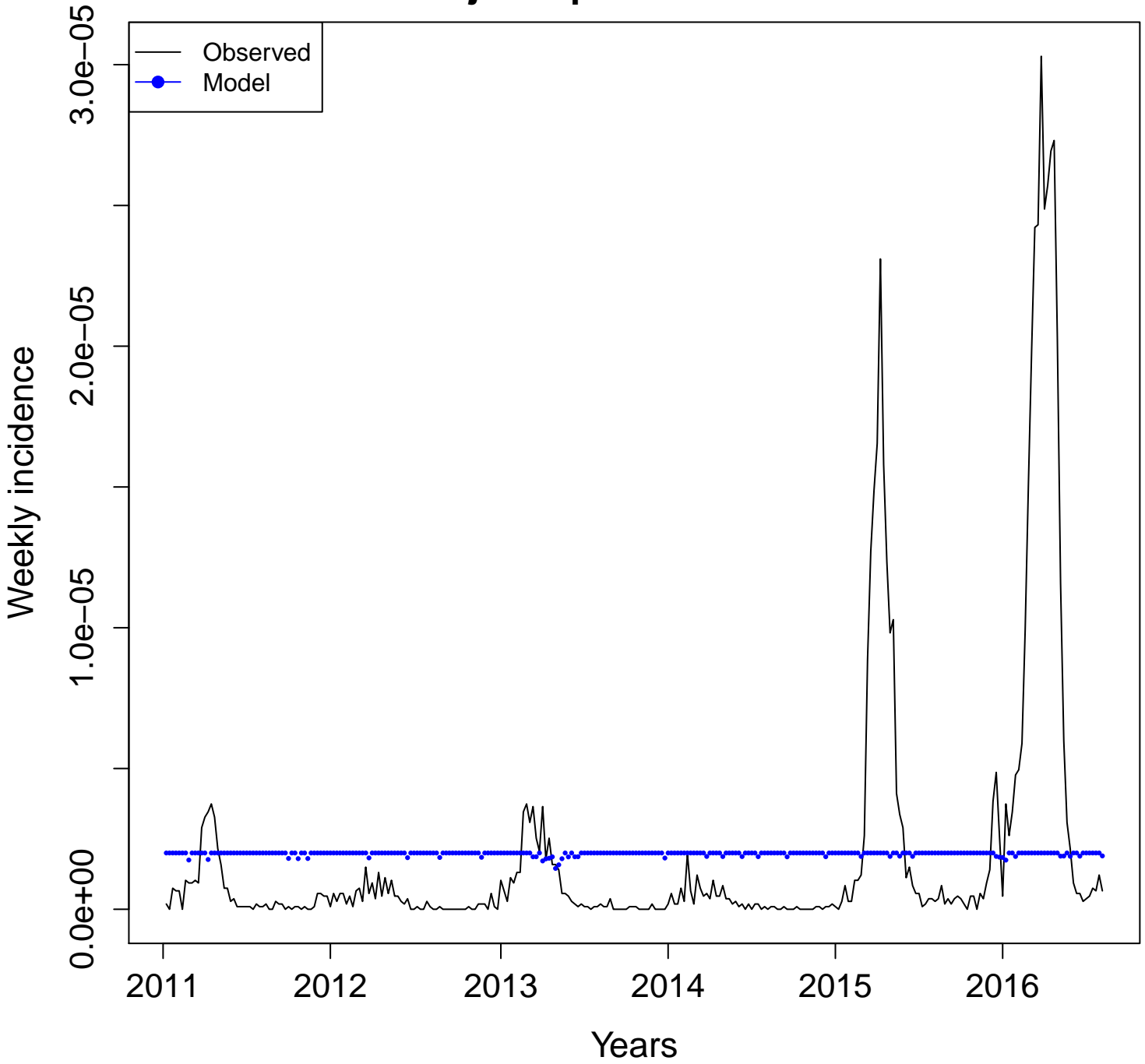
RS- aedes
Adj. R squared = 0.5374



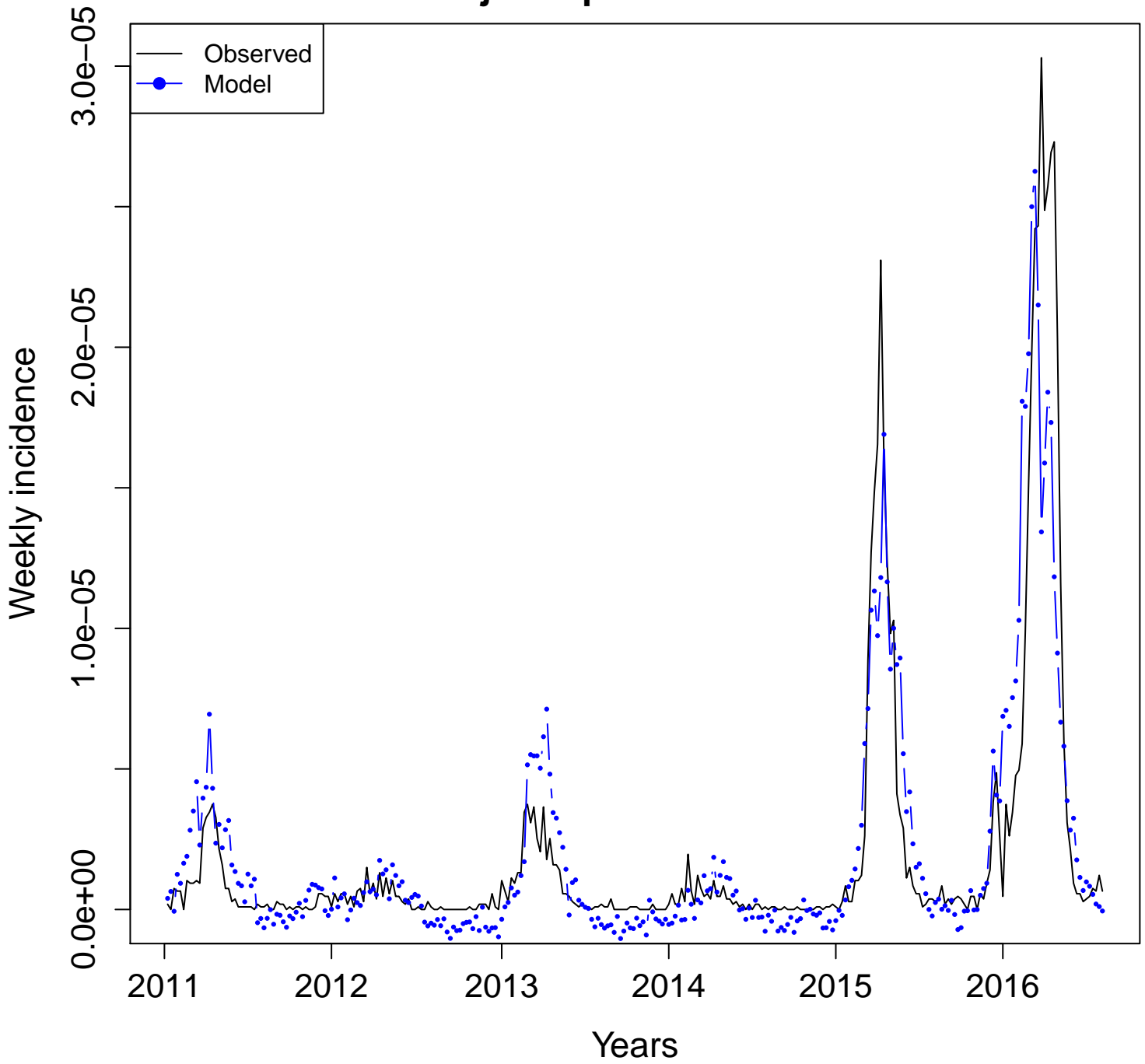
RS- aegypti
Adj. R squared = 0.5619



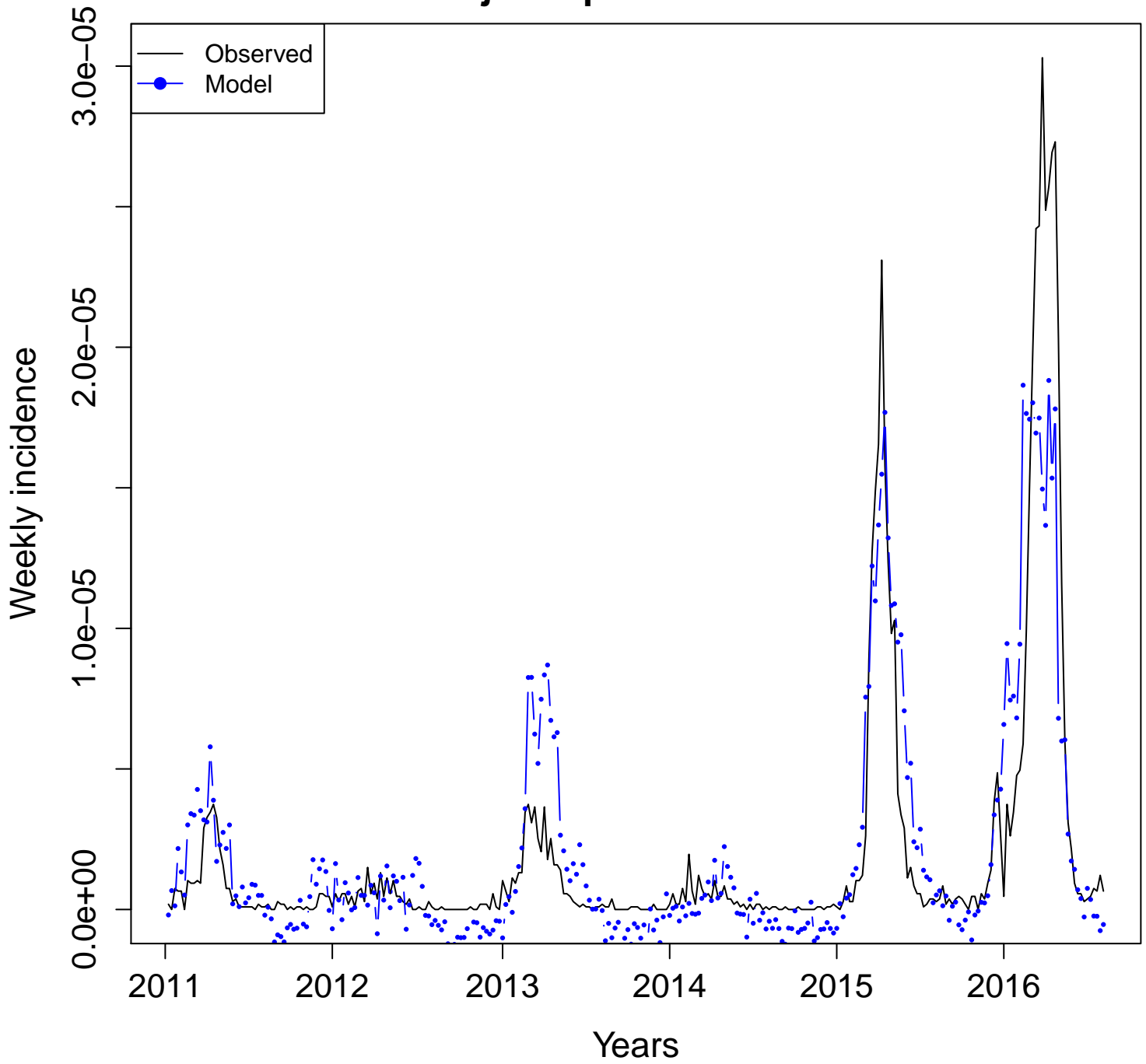
RS- dengue.fever
Adj. R squared = -0.0033



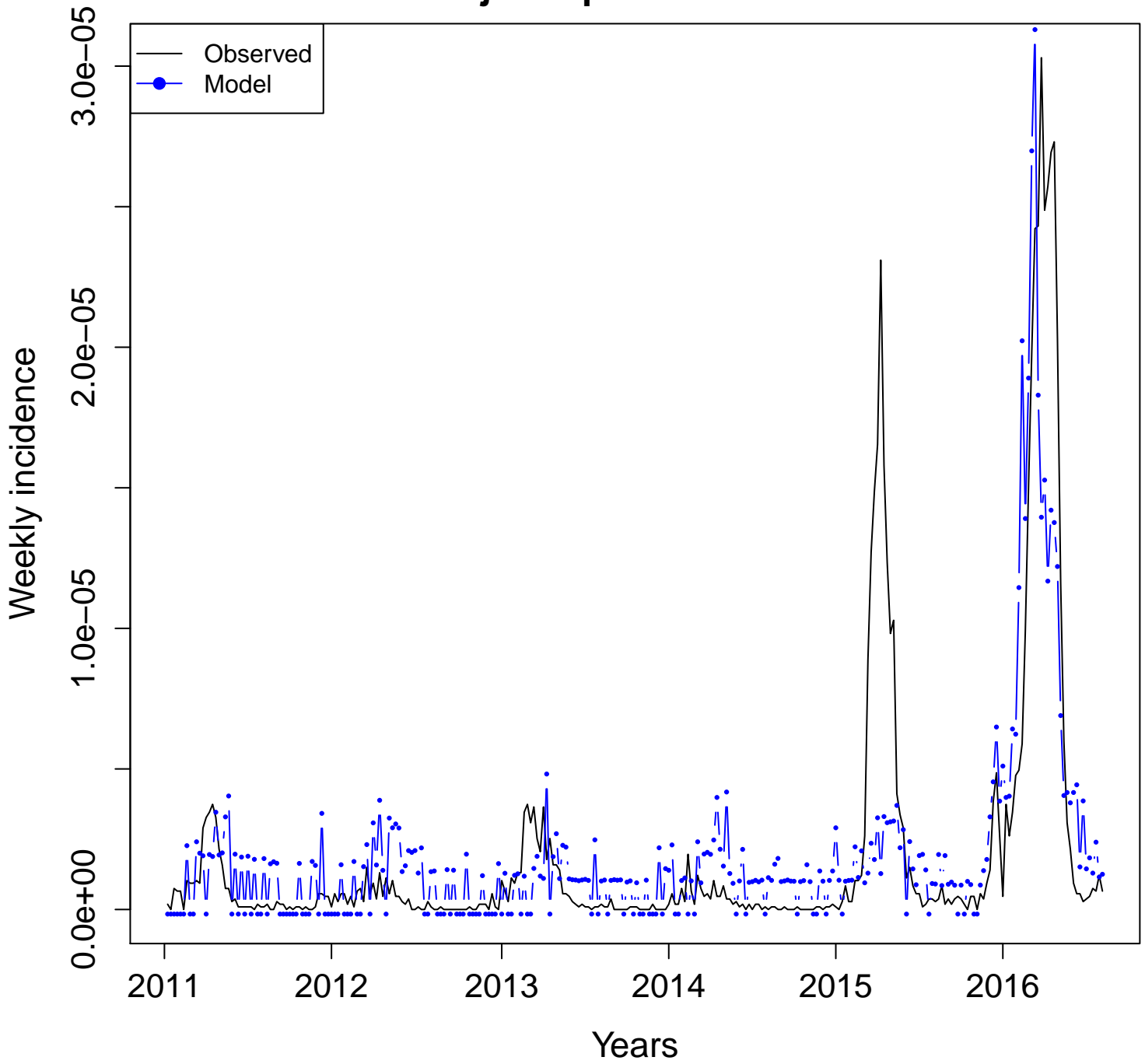
RS- dengue
Adj. R squared = 0.7513



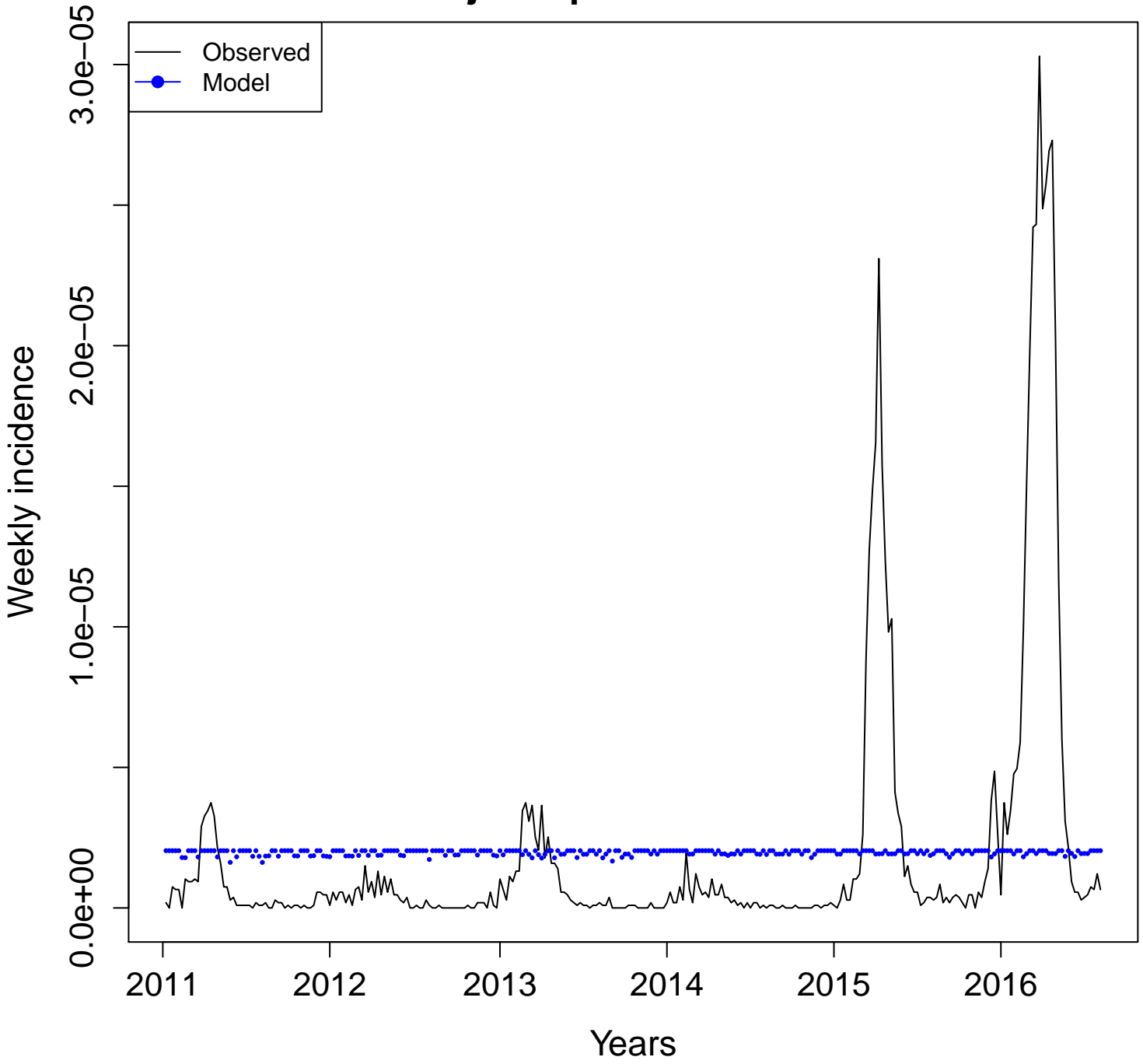
RS- dengue.sintomas
Adj. R squared = 0.7292



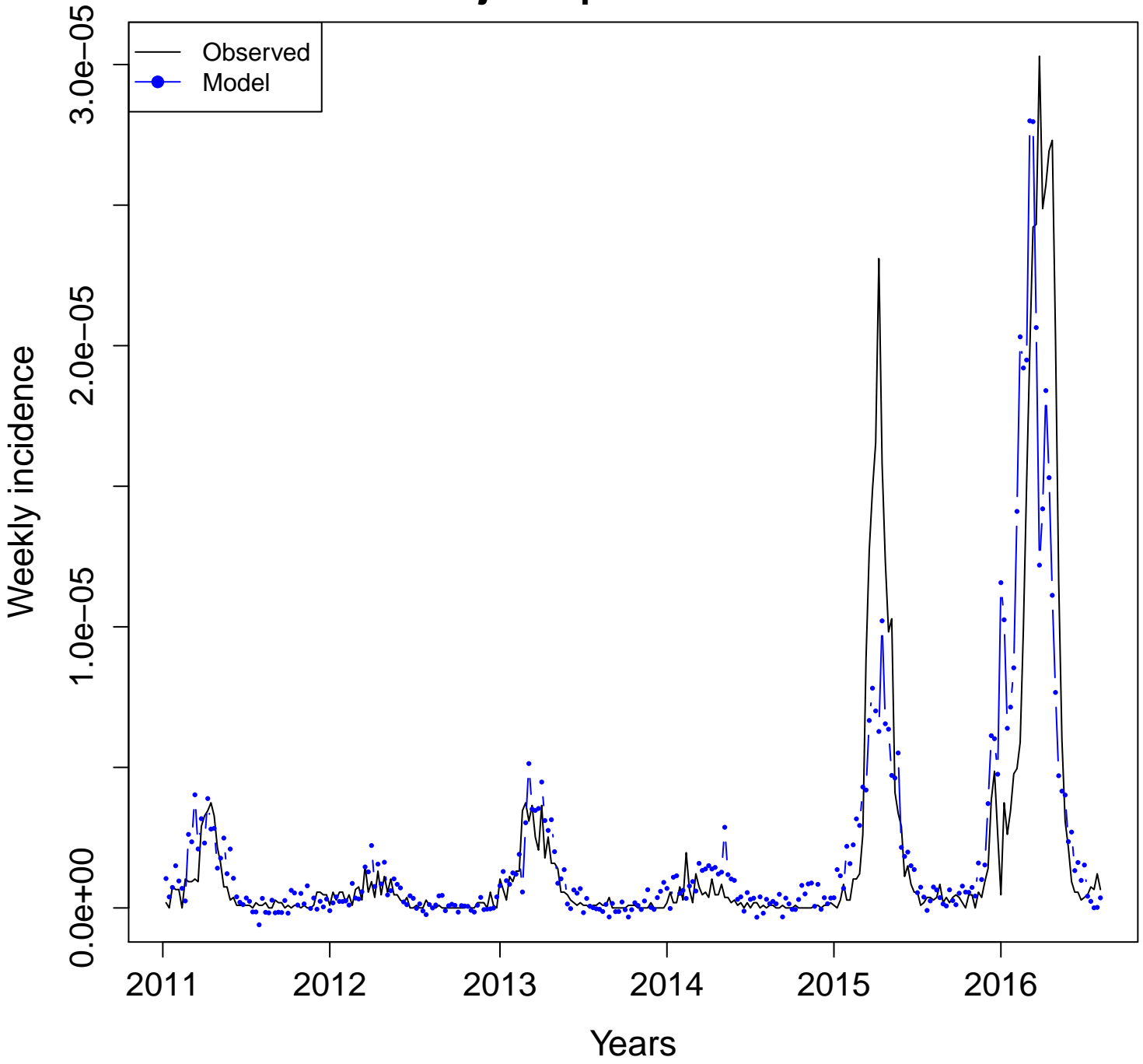
RS- dengue.virus
Adj. R squared = 0.5576



RS- DHF
Adj. R squared = -0.0031

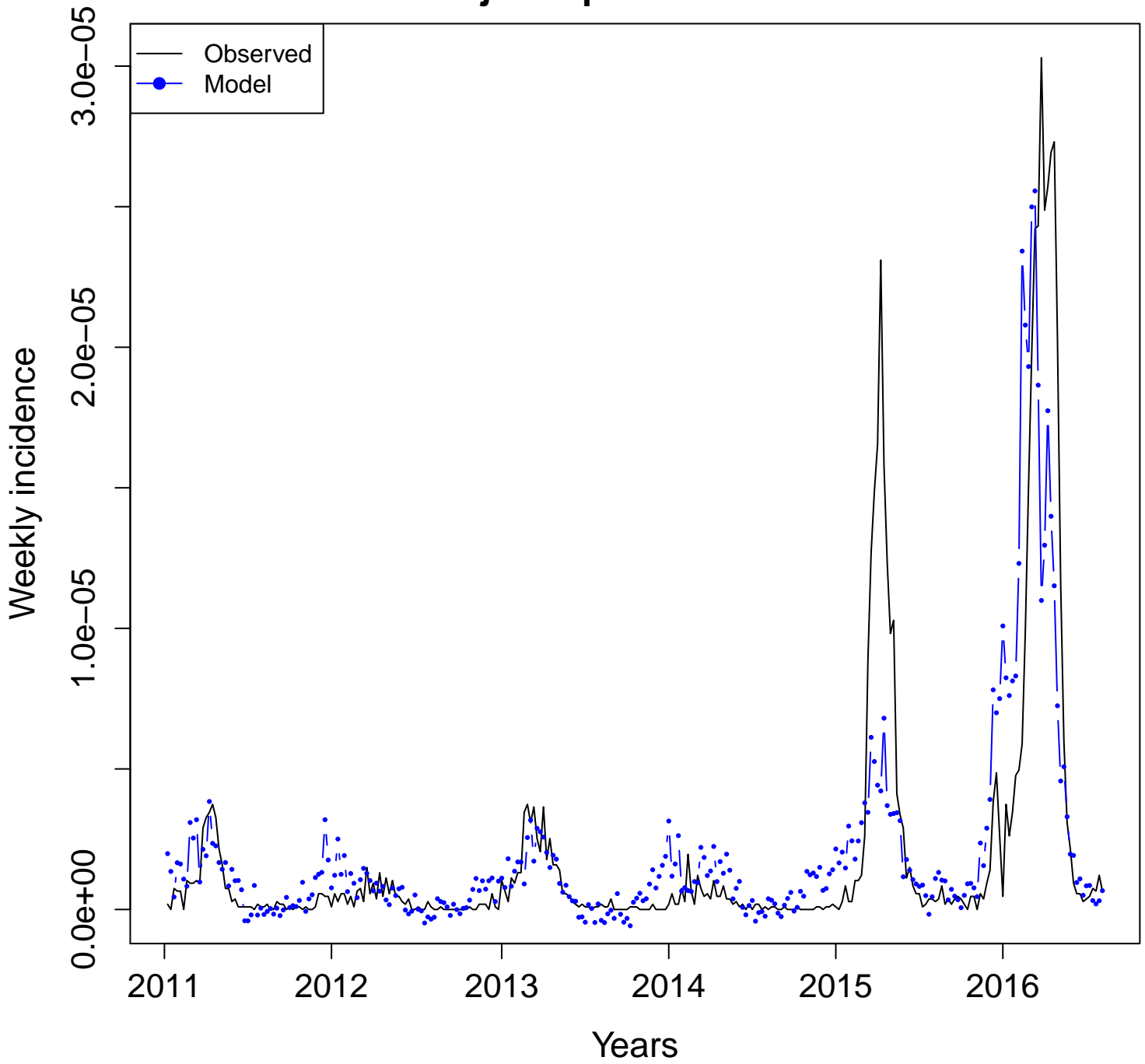


RS- mosquito.dengue
Adj. R squared = 0.6513

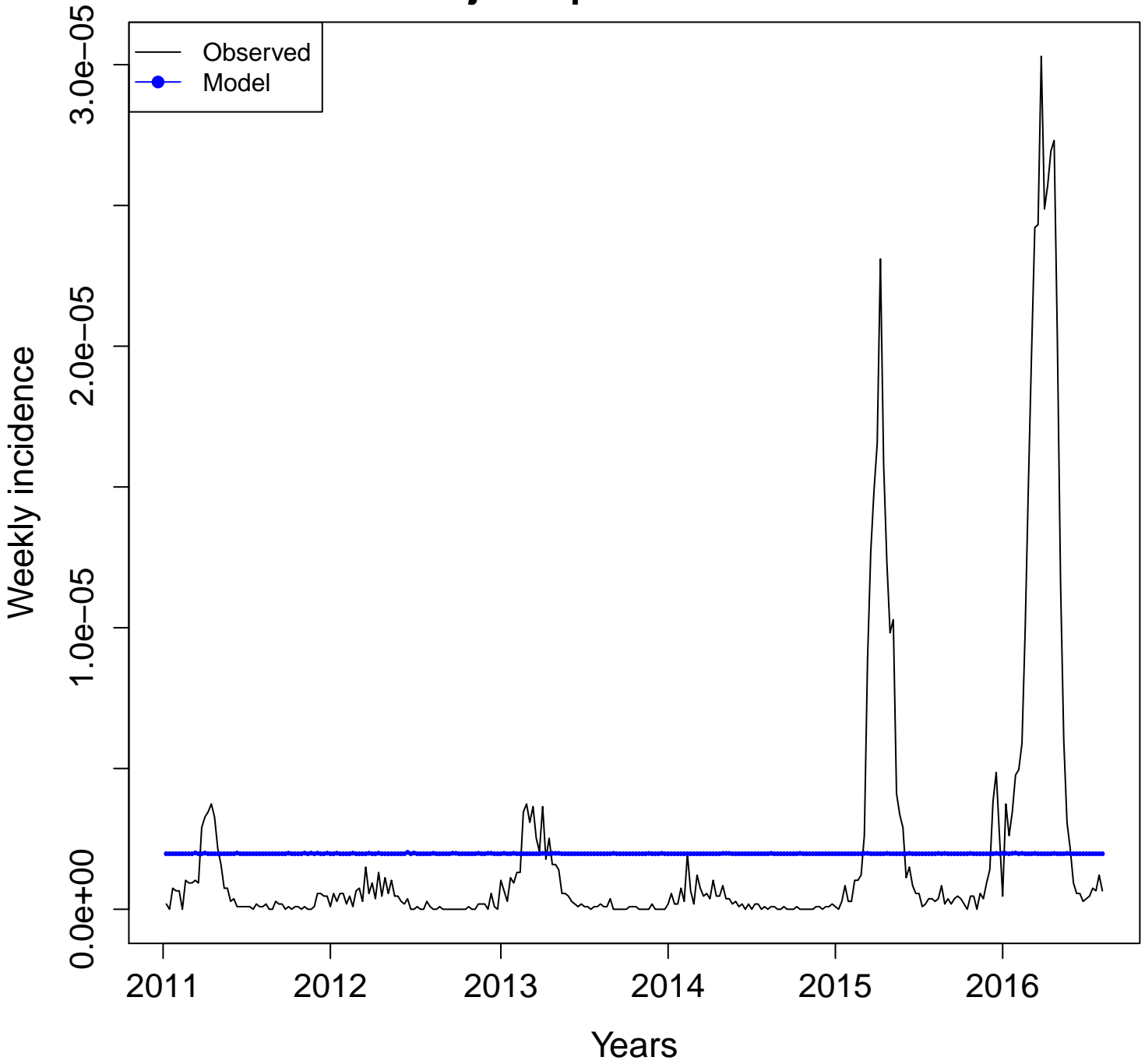


RS- mosquito

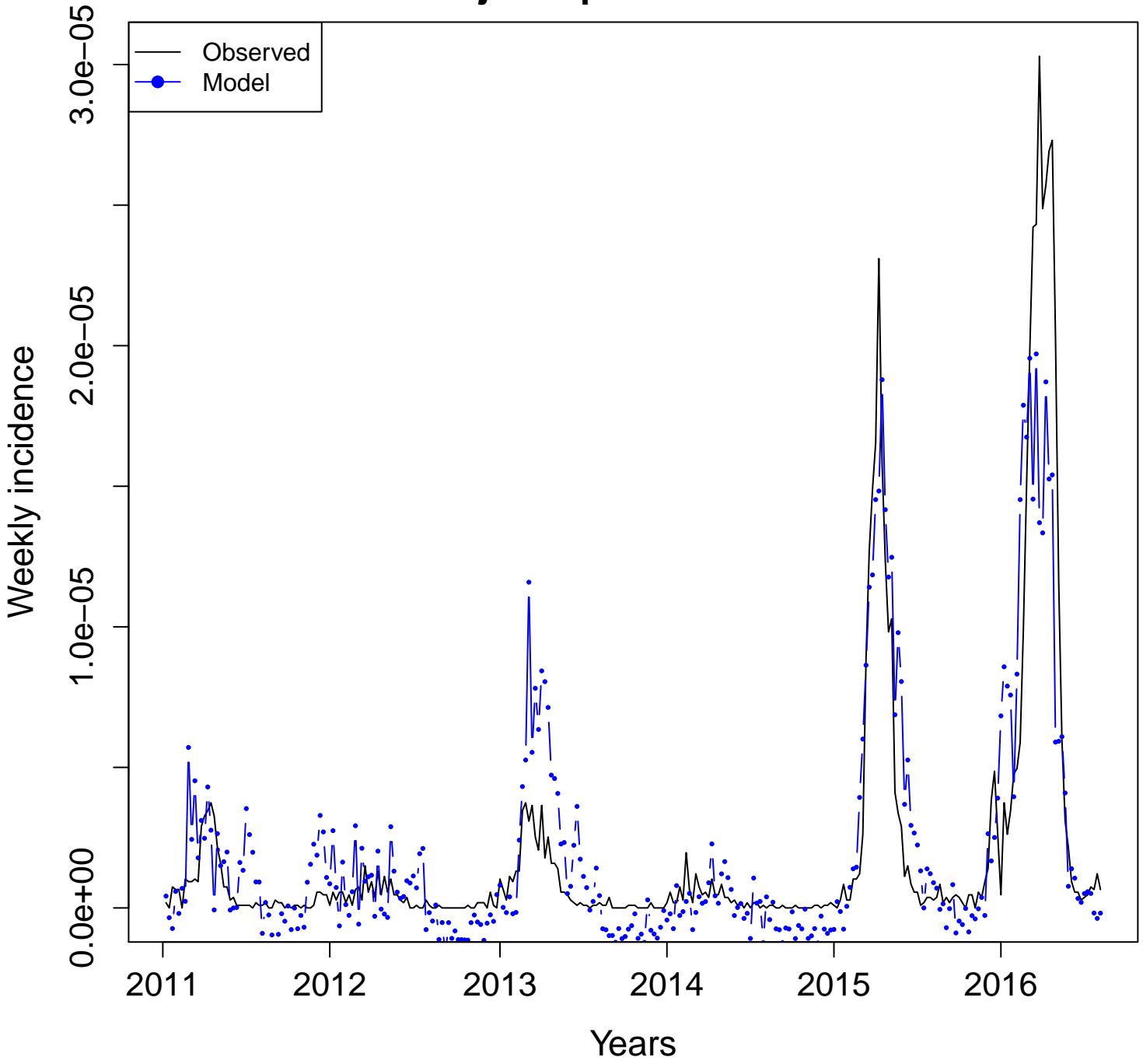
Adj. R squared = 0.5738



RS- mosquitoes
Adj. R squared = -0.0034



RS- sintomas.da.dengue
Adj. R squared = 0.7099



Santa Catarina (SC)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

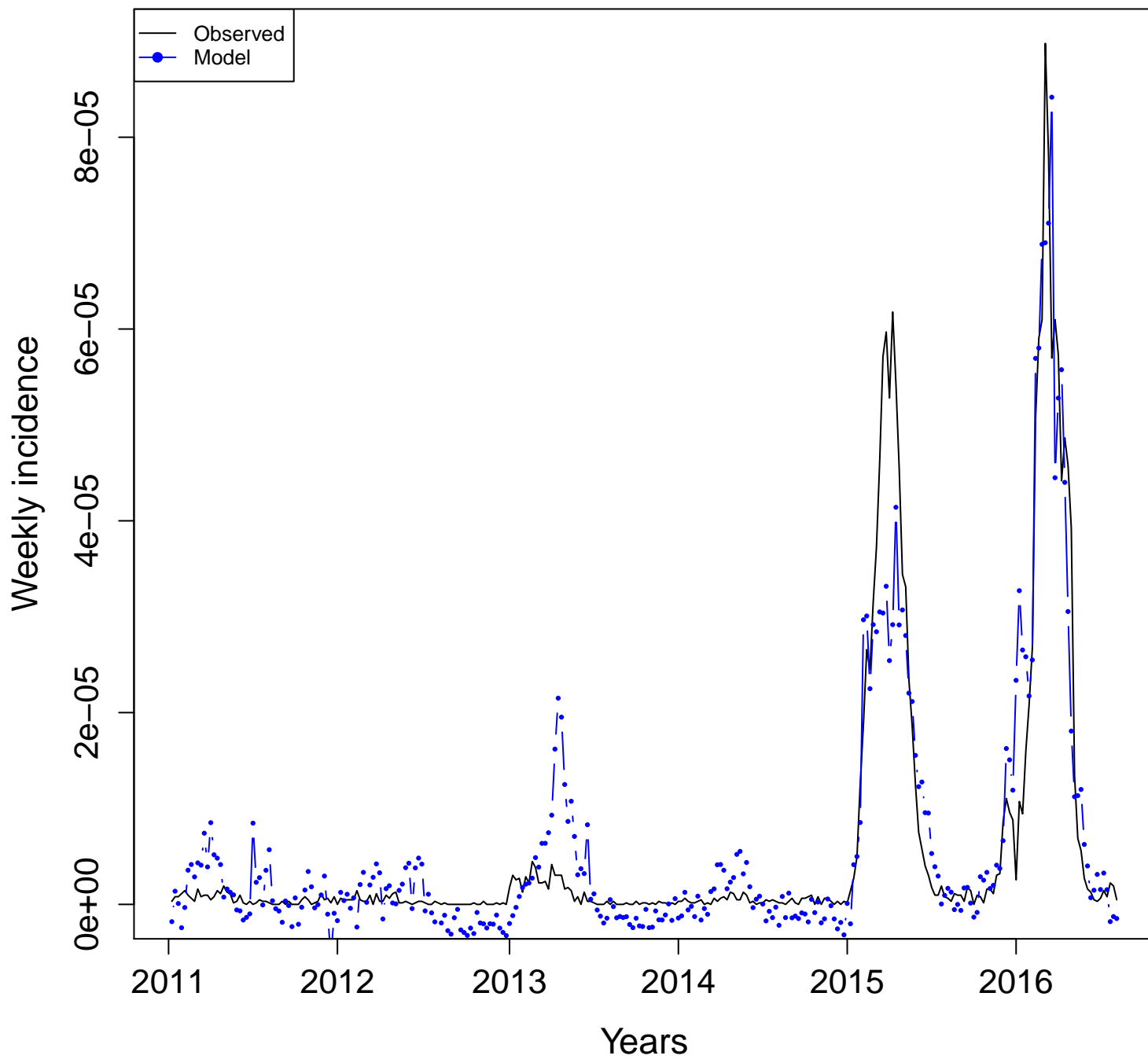
- **Combined terms:**
 - **All:** model with all the available terms. $n =$ number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. $n =$ number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

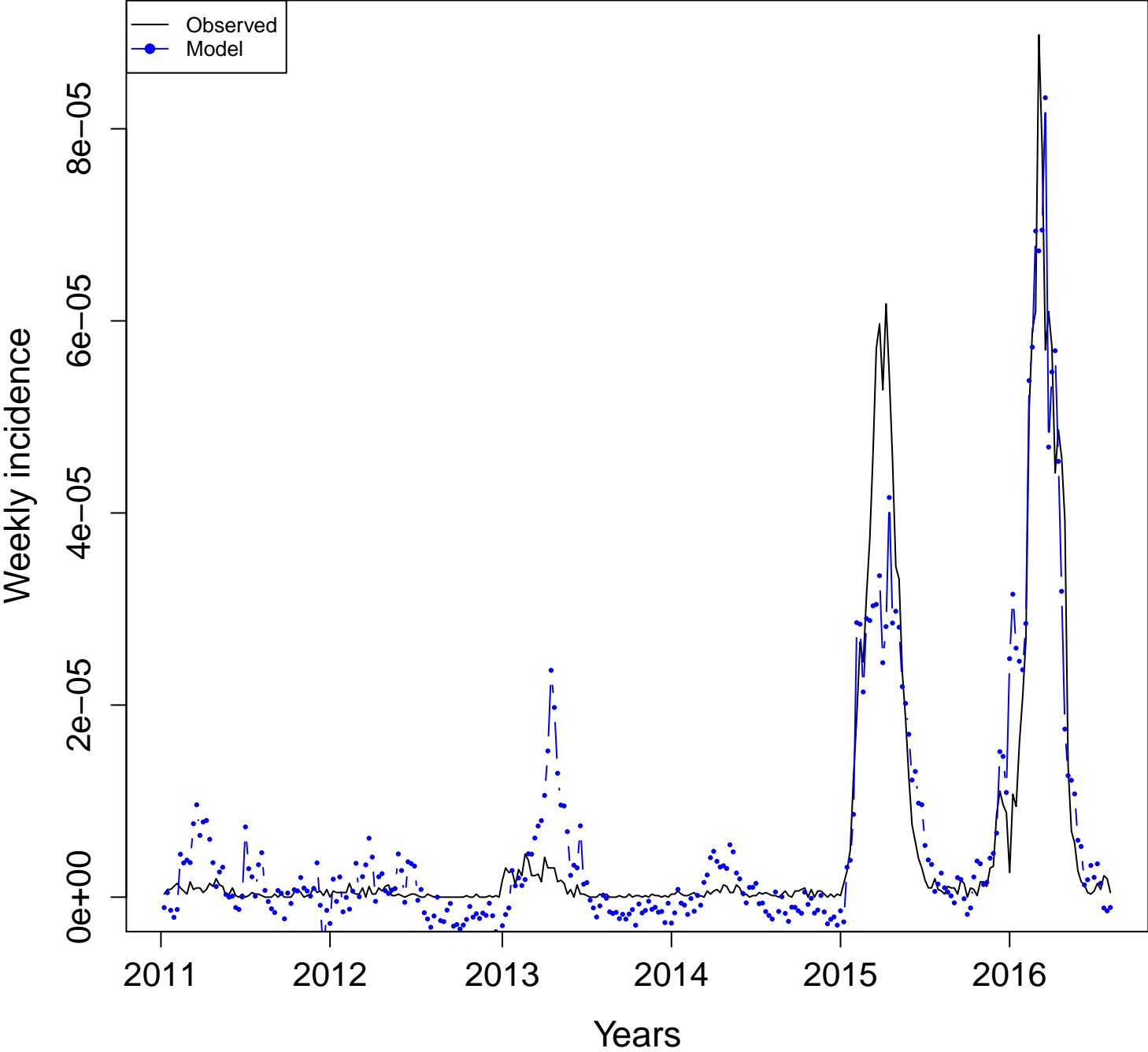
Santa Catarina (SC)

All
(n = 9)

BR-SC
Adj. R squared = 0.8255

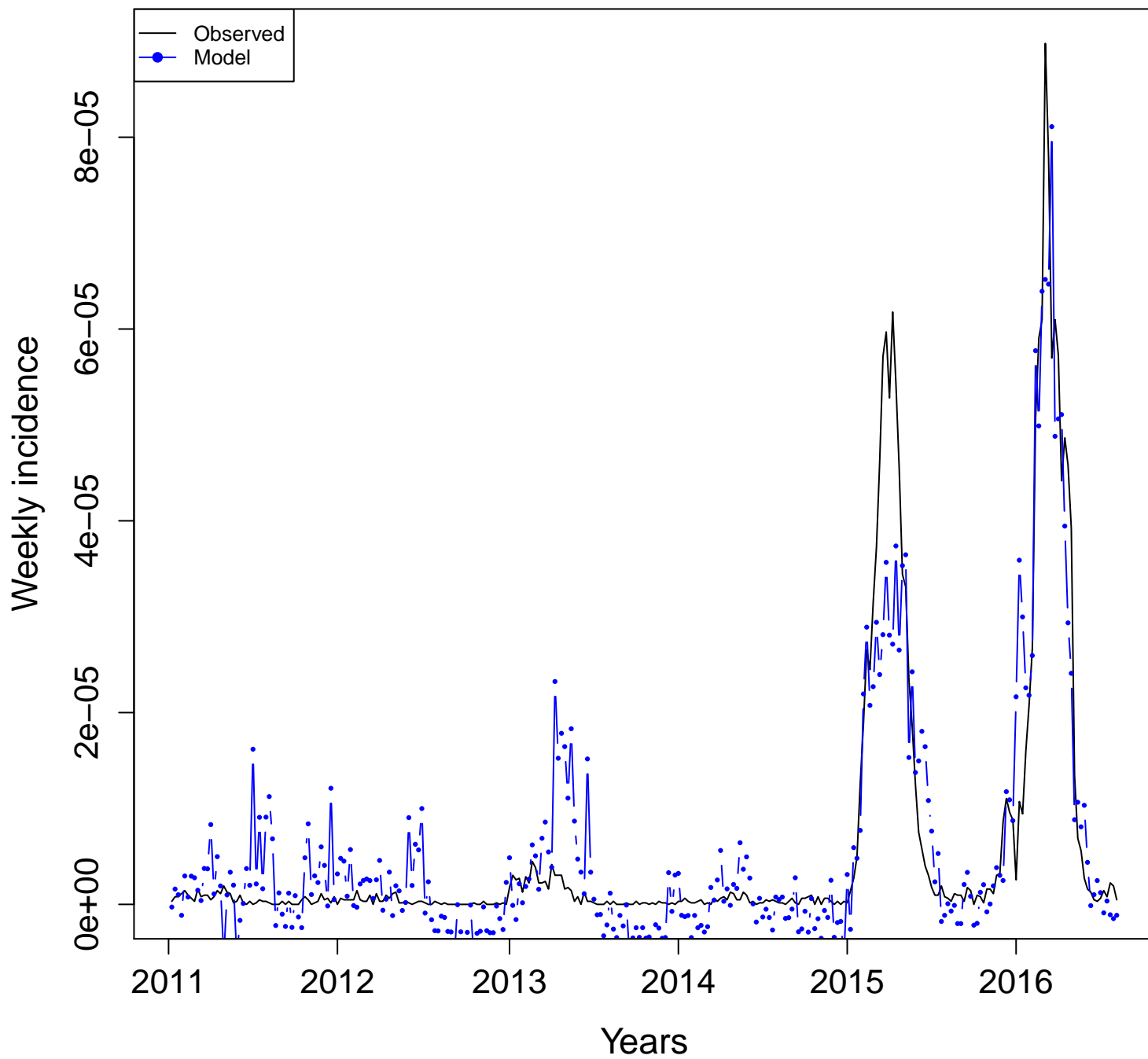


BR-SC
Adj. R squared = 0.8248



**Uncorrelated
(n = 2)**

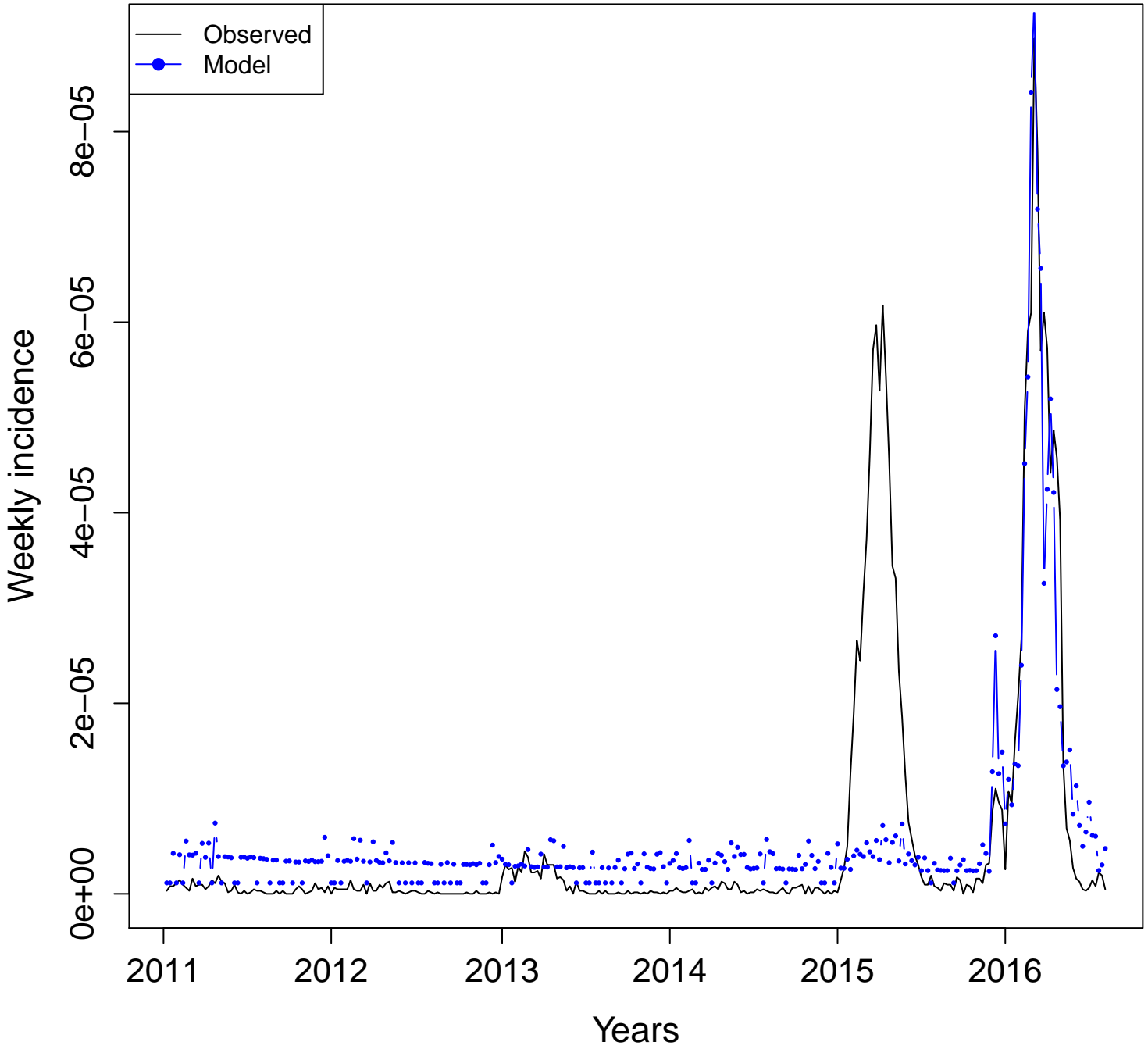
**BR-SC
Adj. R squared = 0.7878**



Individual terms
Adjusted R squared

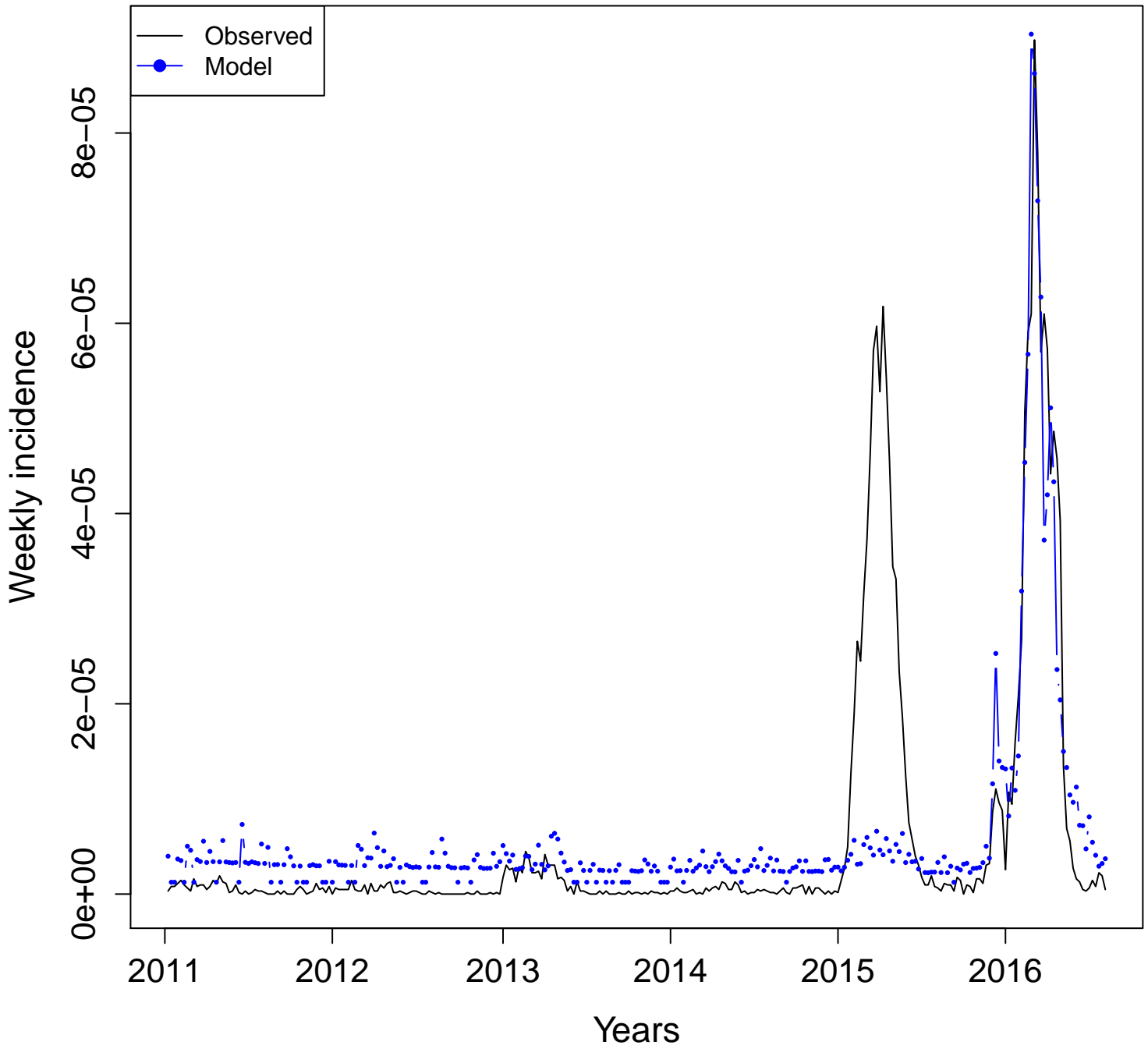
Santa Catarina (SC)

SC- aedes.aegypti
Adj. R squared = 0.5592



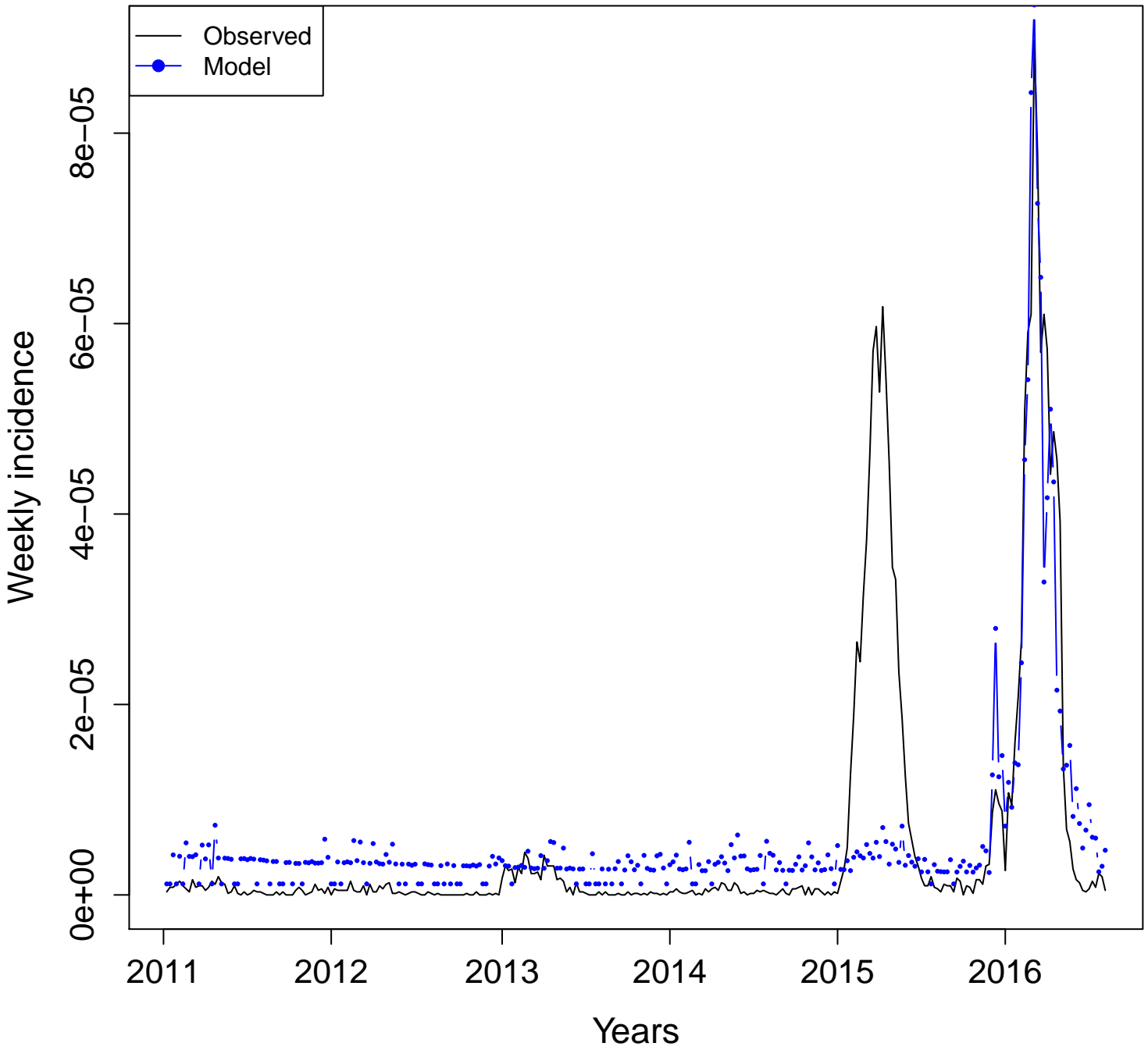
SC- aedes

Adj. R squared = 0.5644



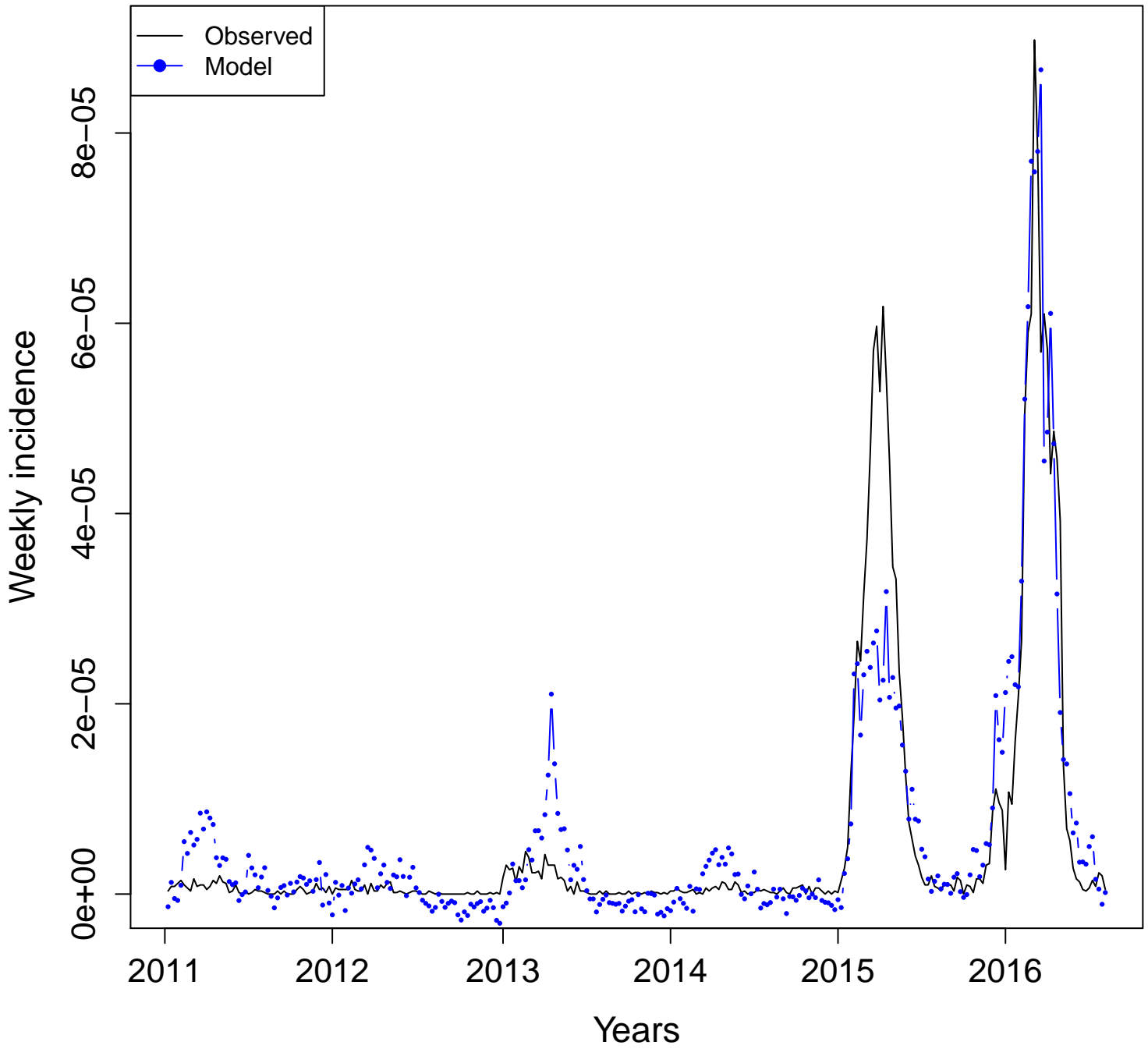
SC- aegypti

Adj. R squared = 0.5583

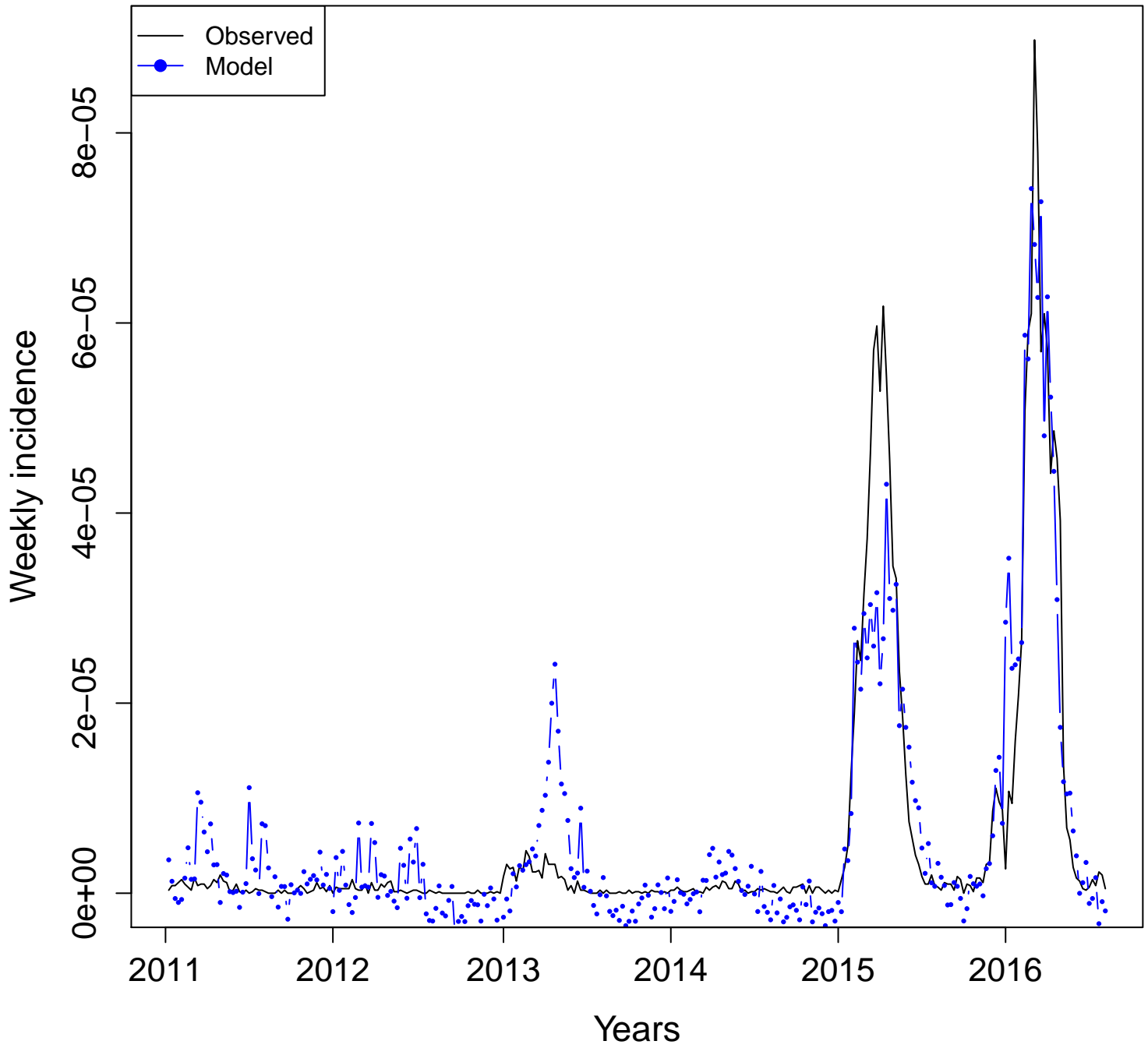


SC- dengue

Adj. R squared = 0.8032

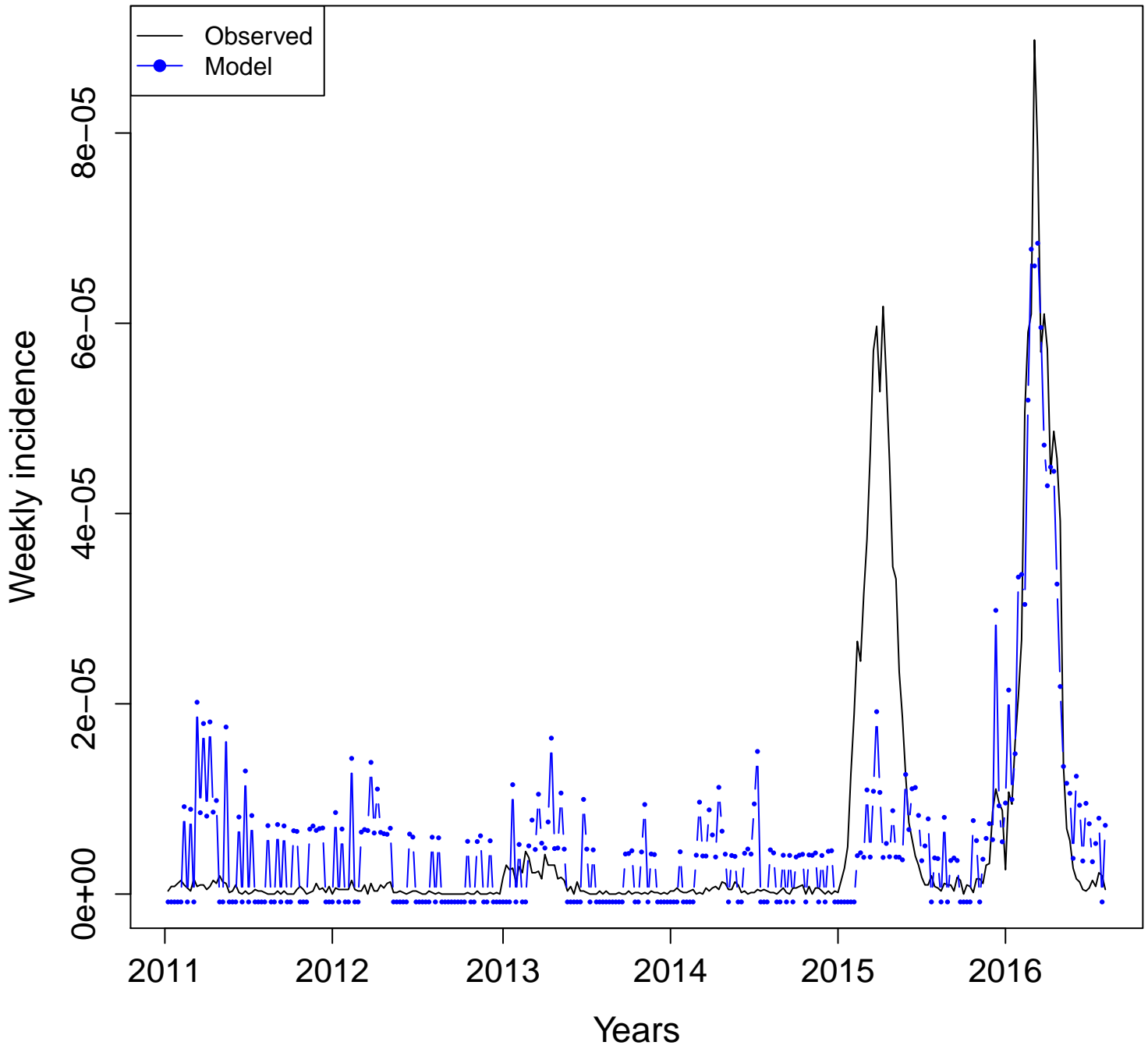


SC- dengue.sintomas
Adj. R squared = 0.8105

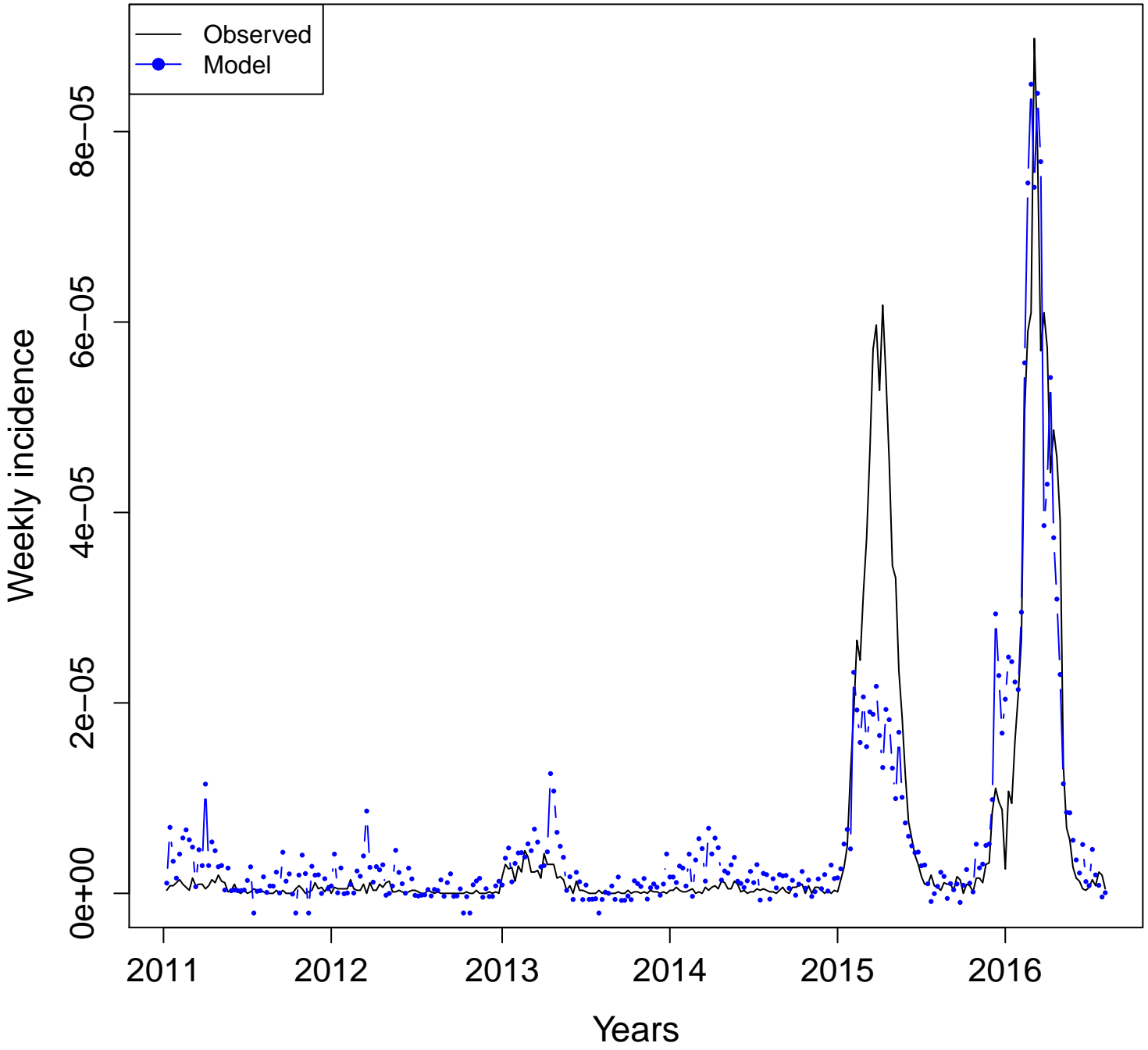


SC- dengue.virus

Adj. R squared = 0.5382

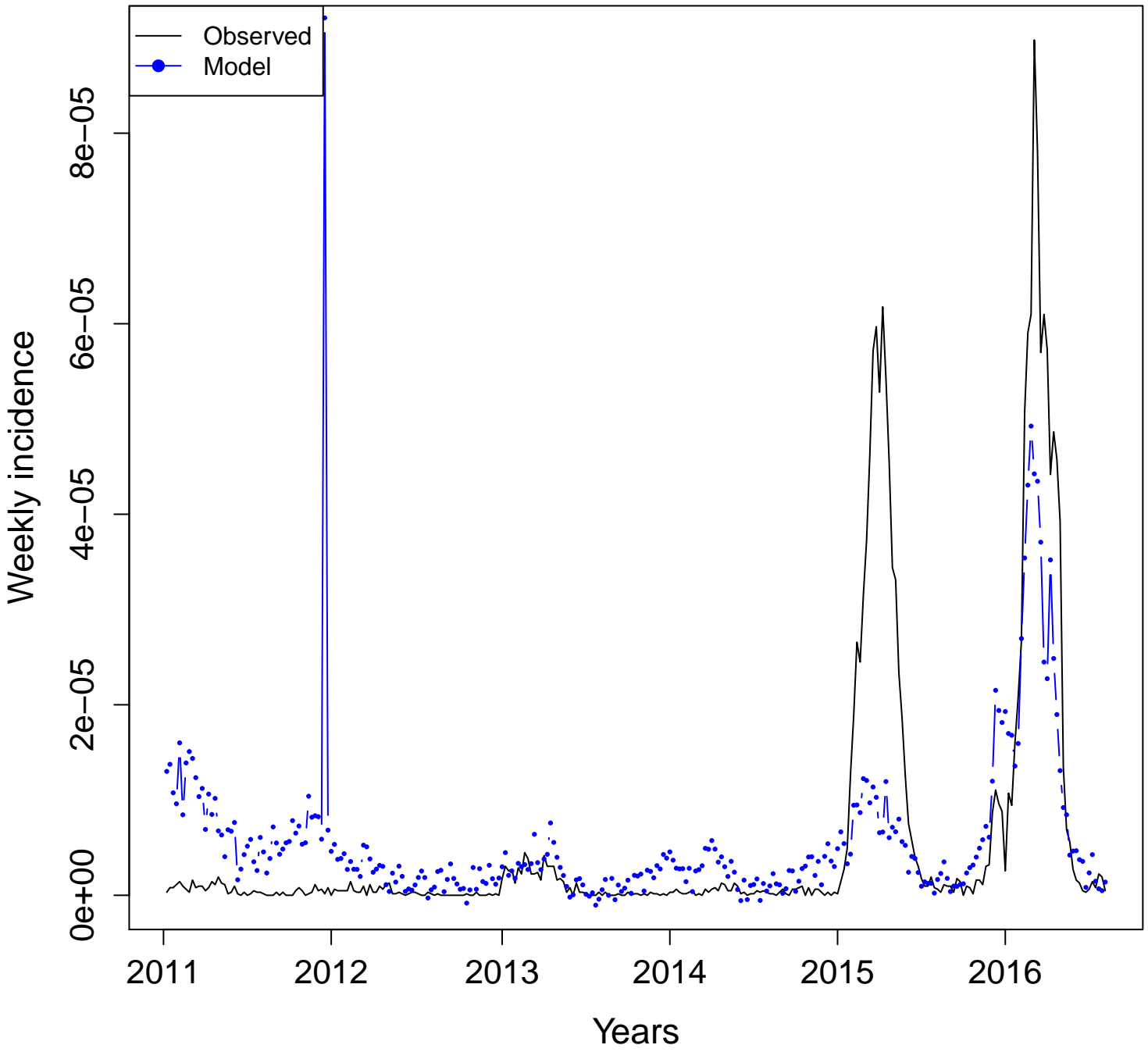


SC- mosquito.dengue
Adj. R squared = 0.733

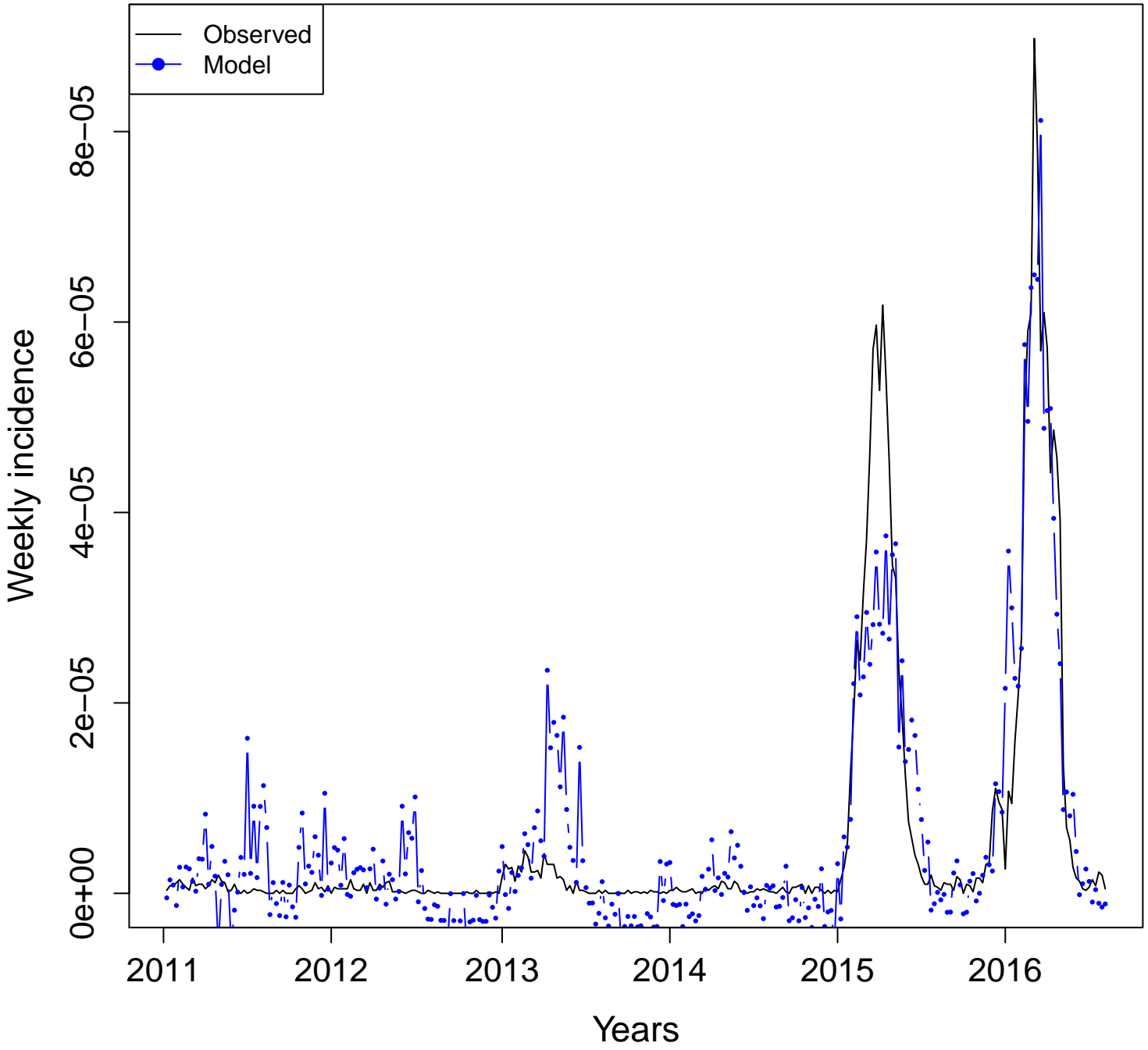


SC- mosquito

Adj. R squared = 0.3641



SC- sintomas.da.dengue
Adj. R squared = 0.7884



Sergipe (SE)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

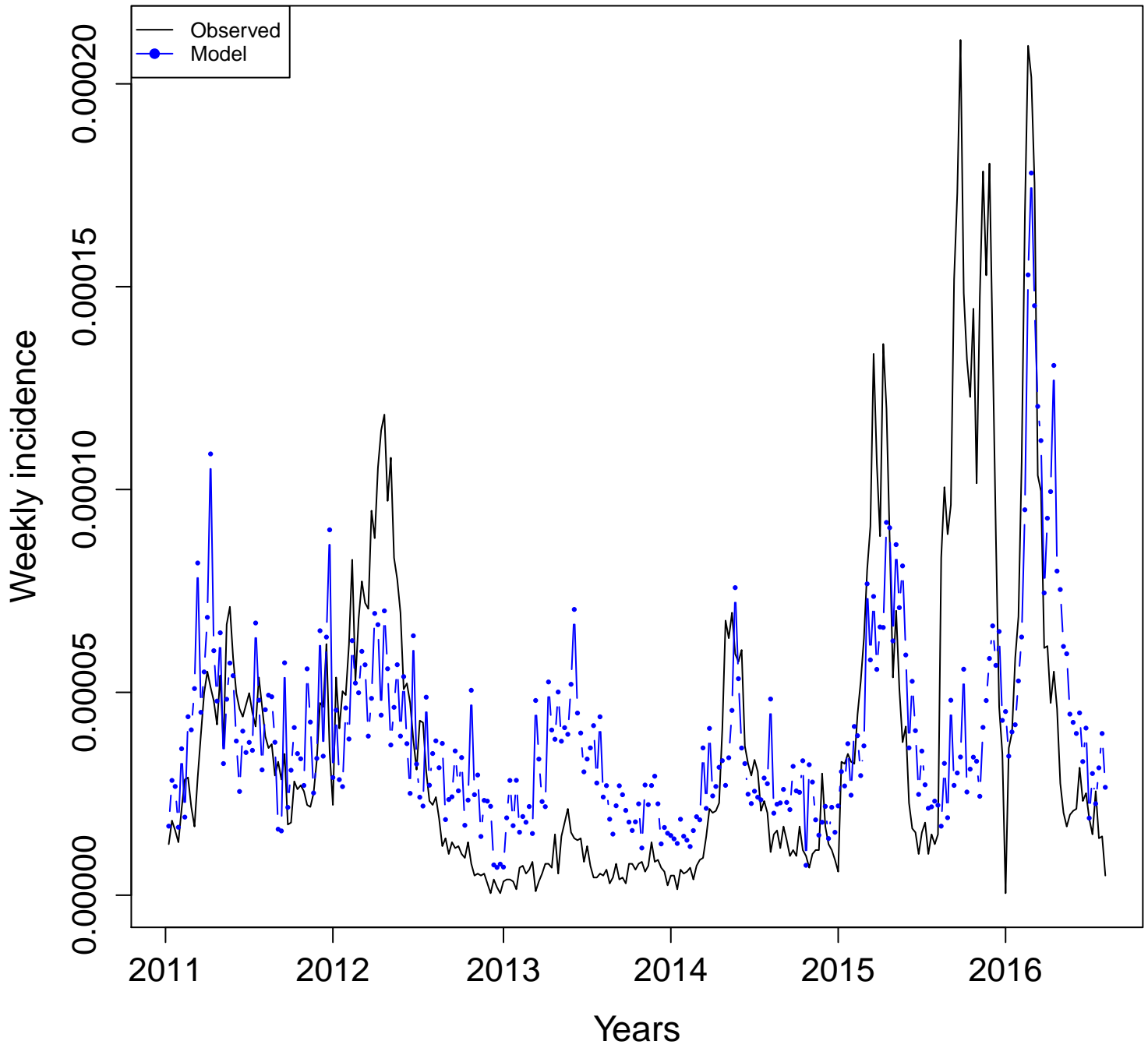
- **Combined terms:**
 - **All:** model with all the available terms. n = number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. n = number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

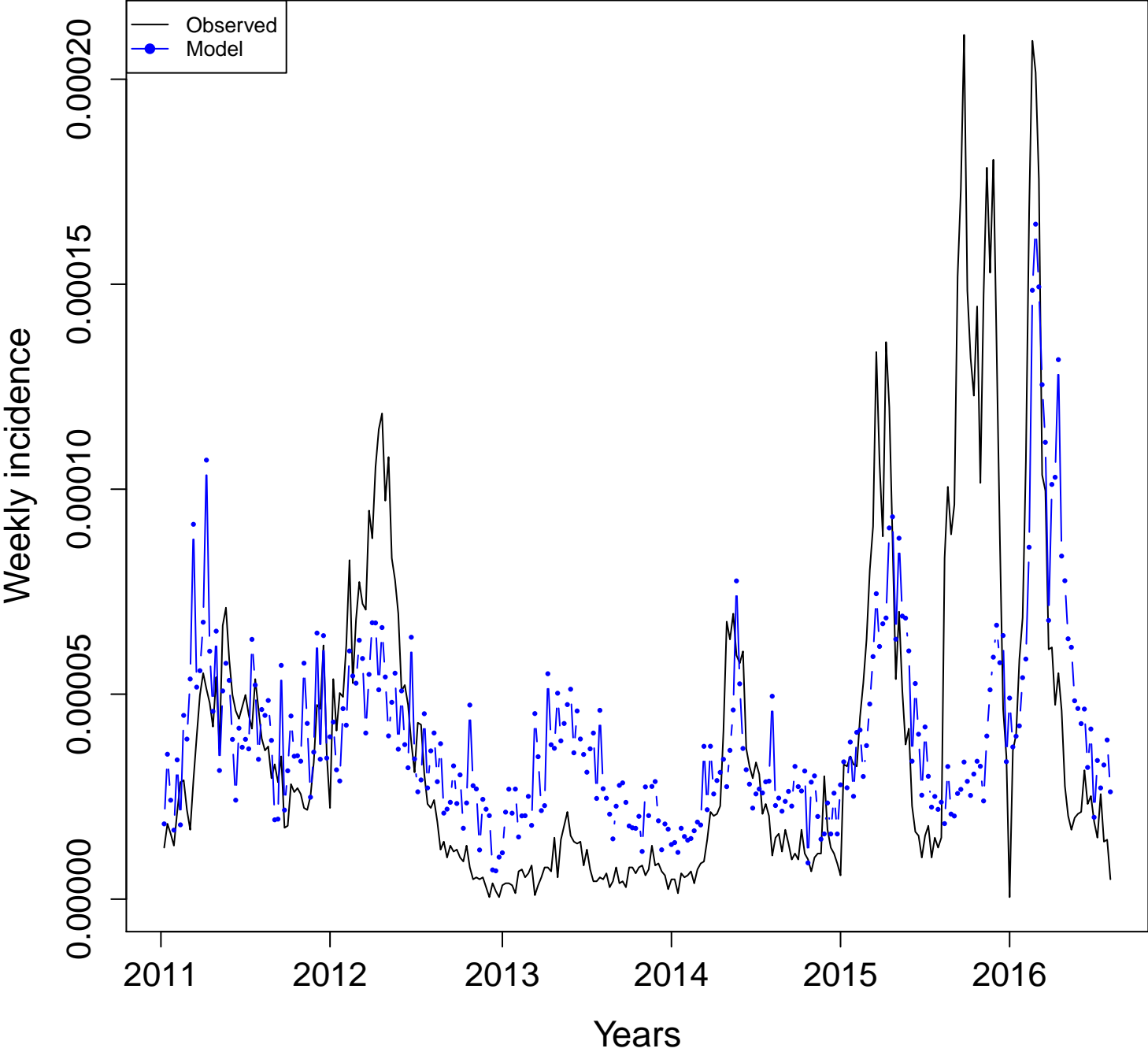
Sergipe (SE)

All
(n = 8)

BR-SE
Adj. R squared = 0.3085

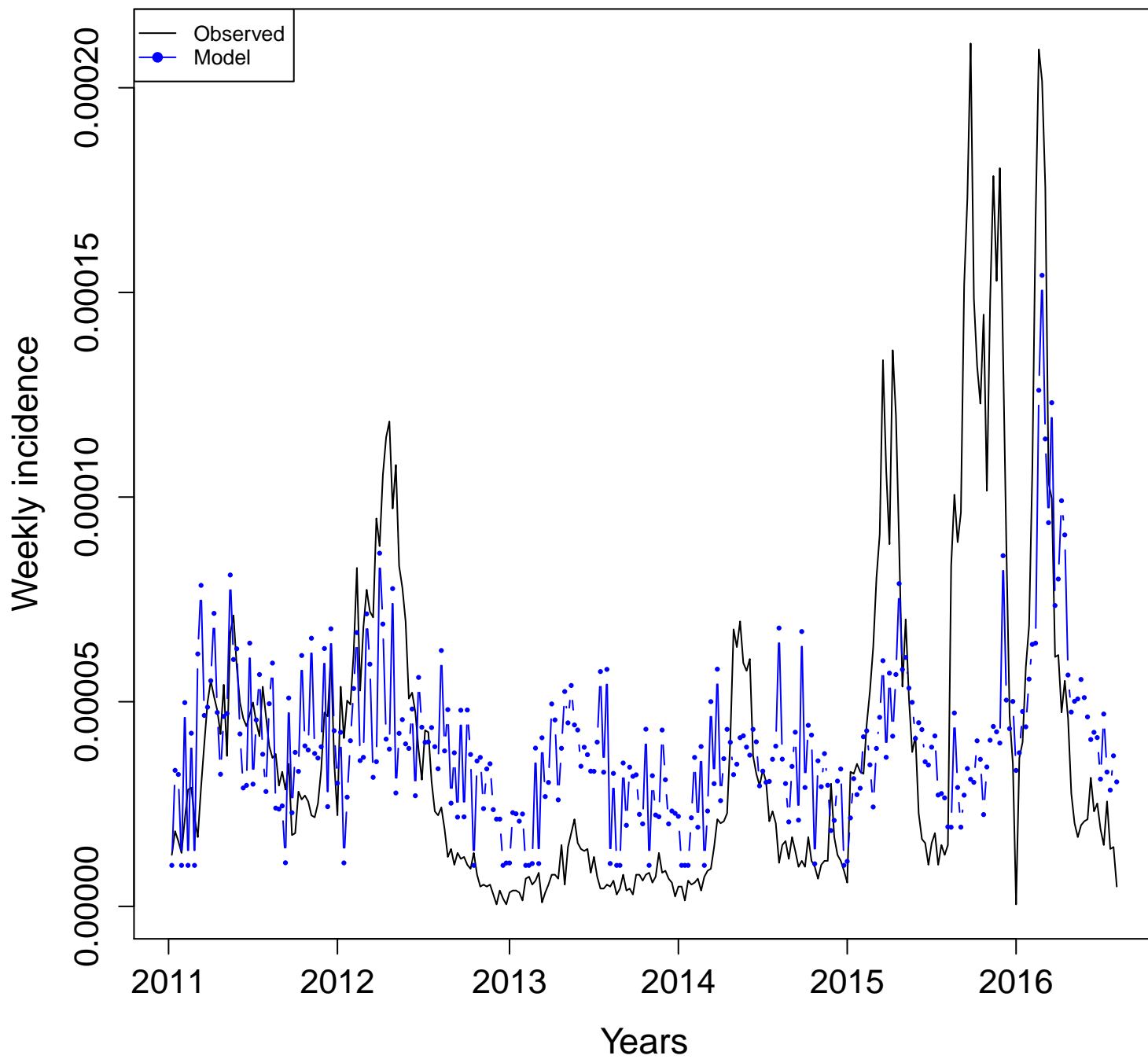


BR-SE
Adj. R squared = 0.3001



**Uncorrelated
(n = 3)**

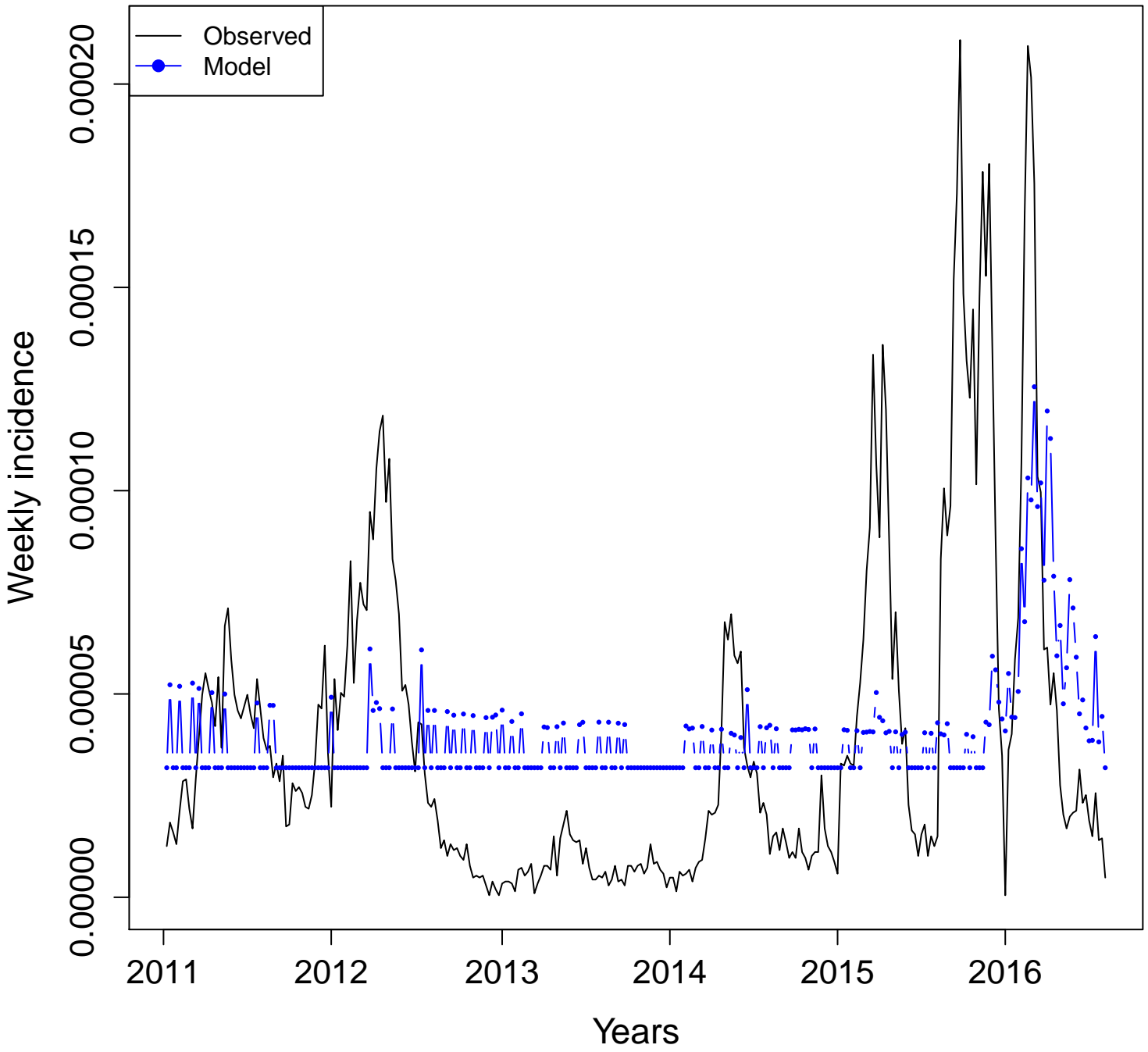
**BR-SE
Adj. R squared = 0.2159**



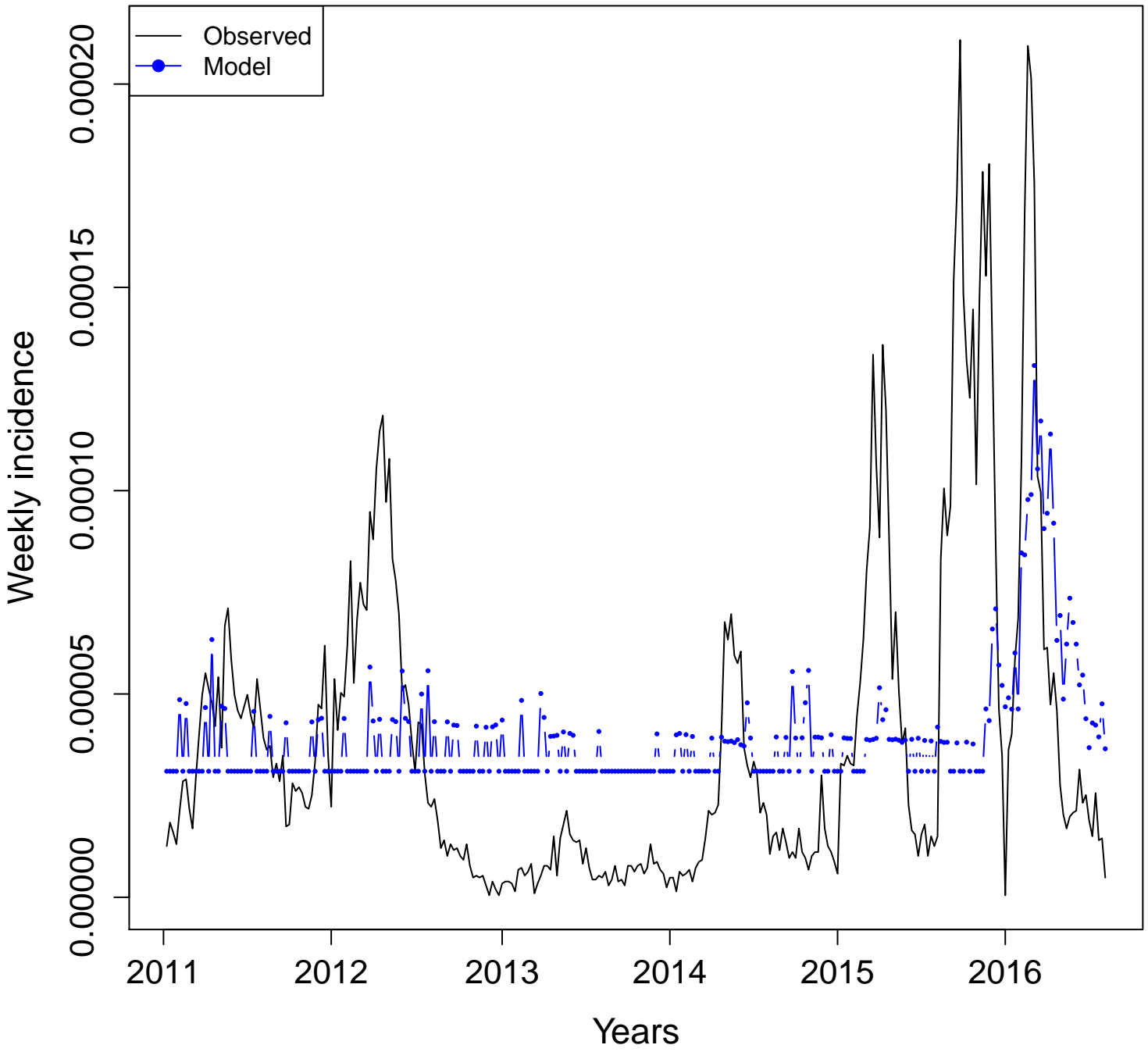
Individual terms
Adjusted R squared

Sergipe (SE)

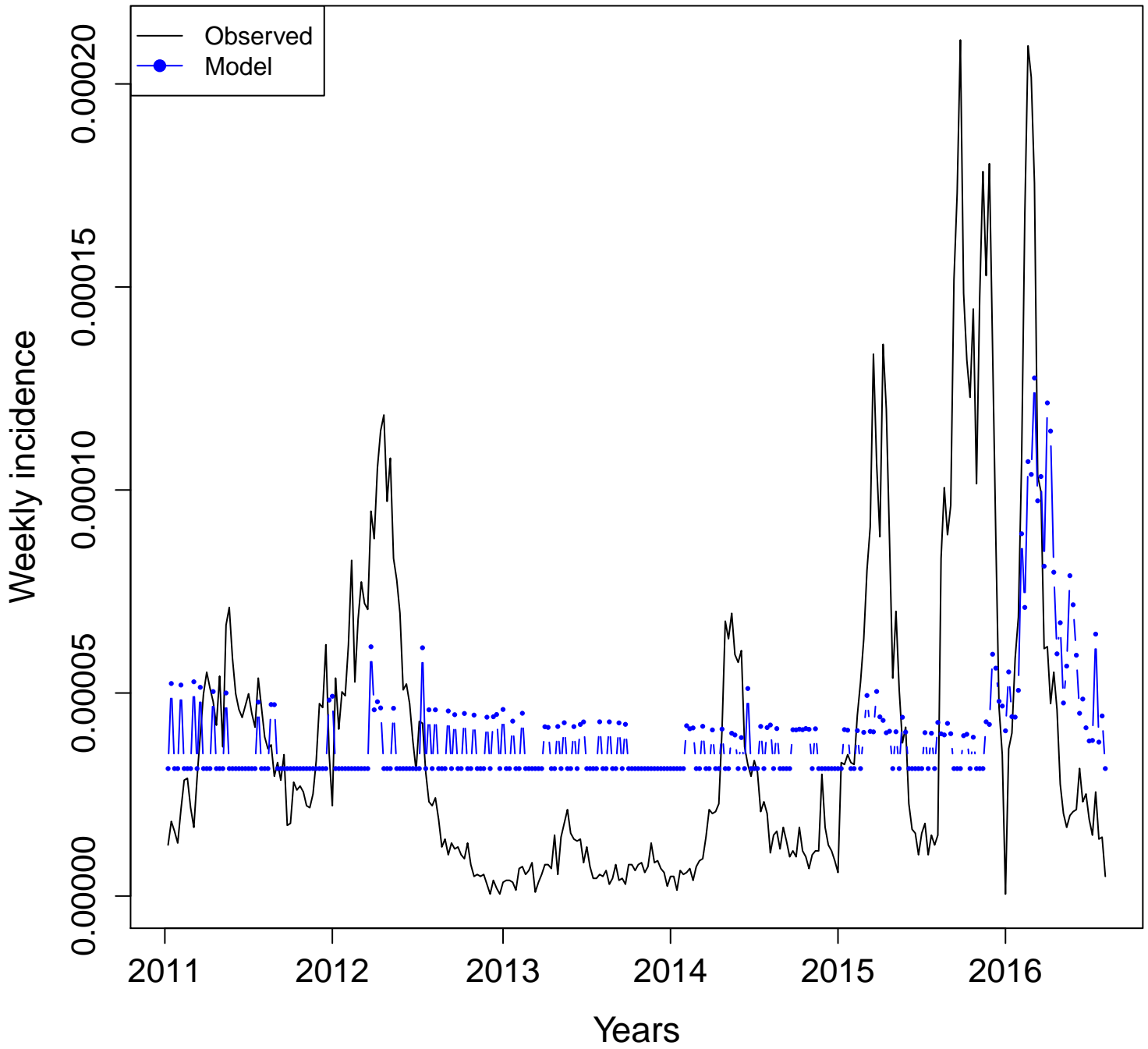
SE- aedes.aegypti
Adj. R squared = 0.1128



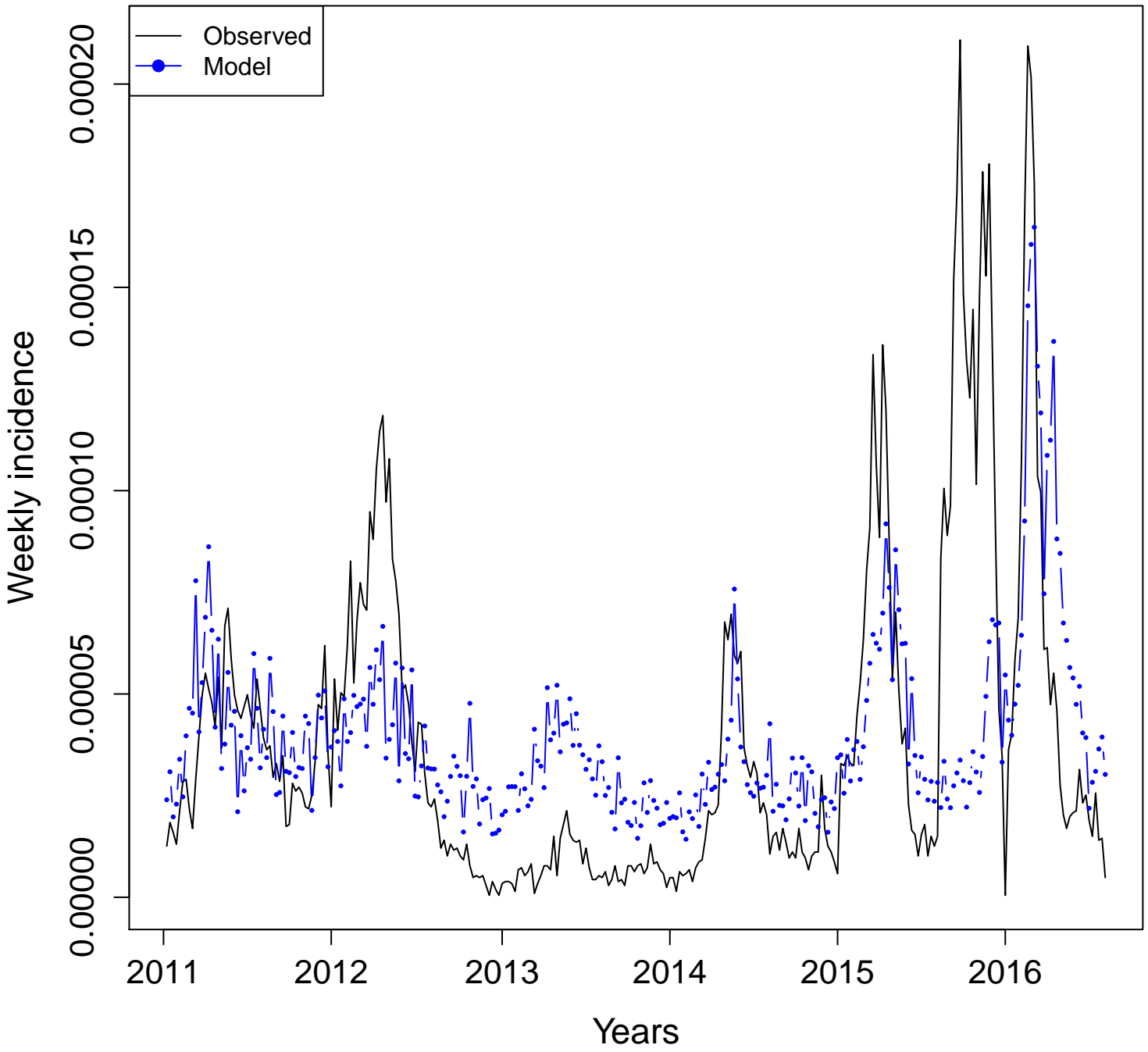
SE- aedes
Adj. R squared = 0.1265



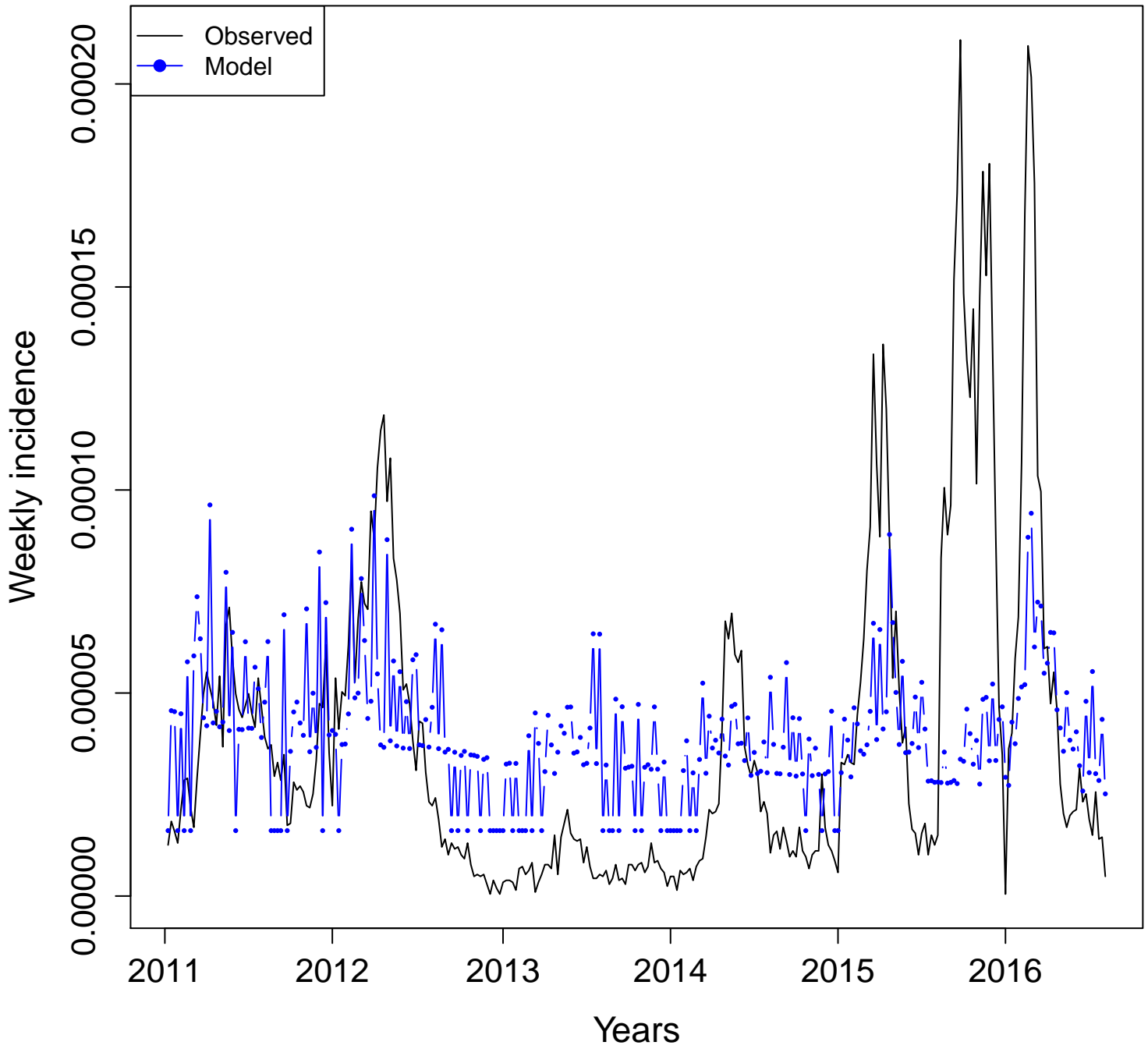
SE- aegypti
Adj. R squared = 0.1221



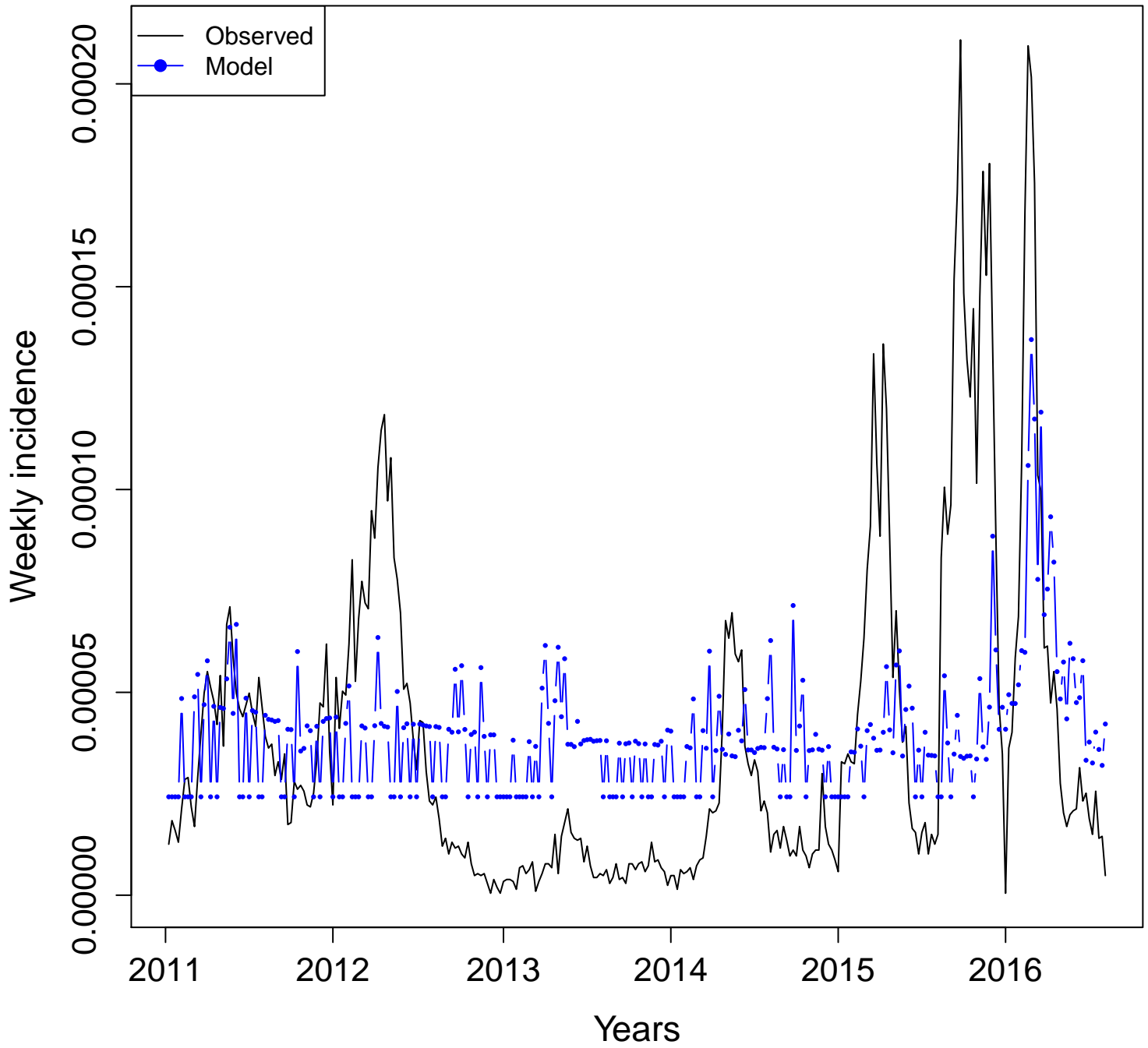
SE- dengue
Adj. R squared = 0.2878



SE- dengue.sintomas
Adj. R squared = 0.1506

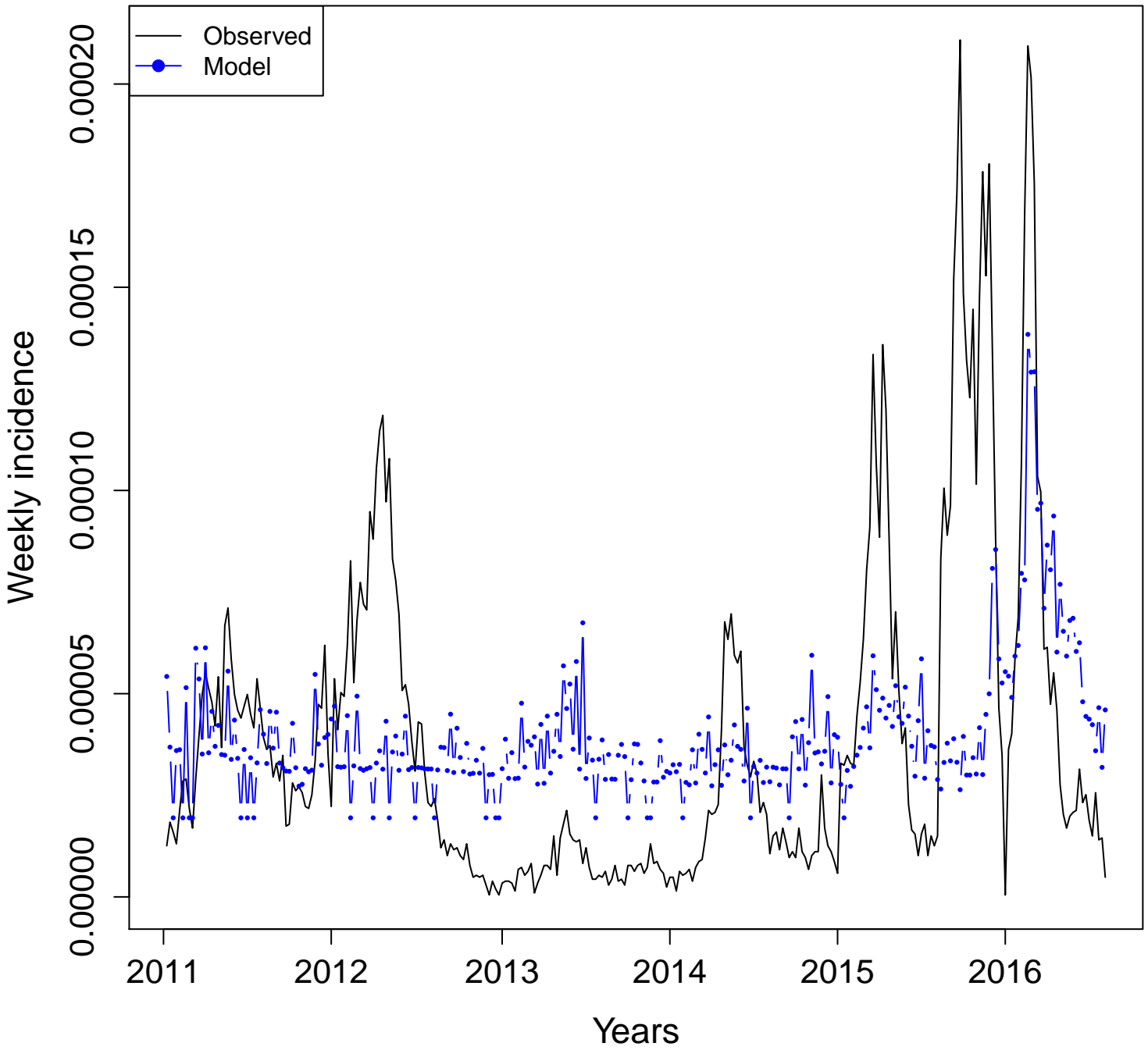


SE- mosquito.dengue
Adj. R squared = 0.1392

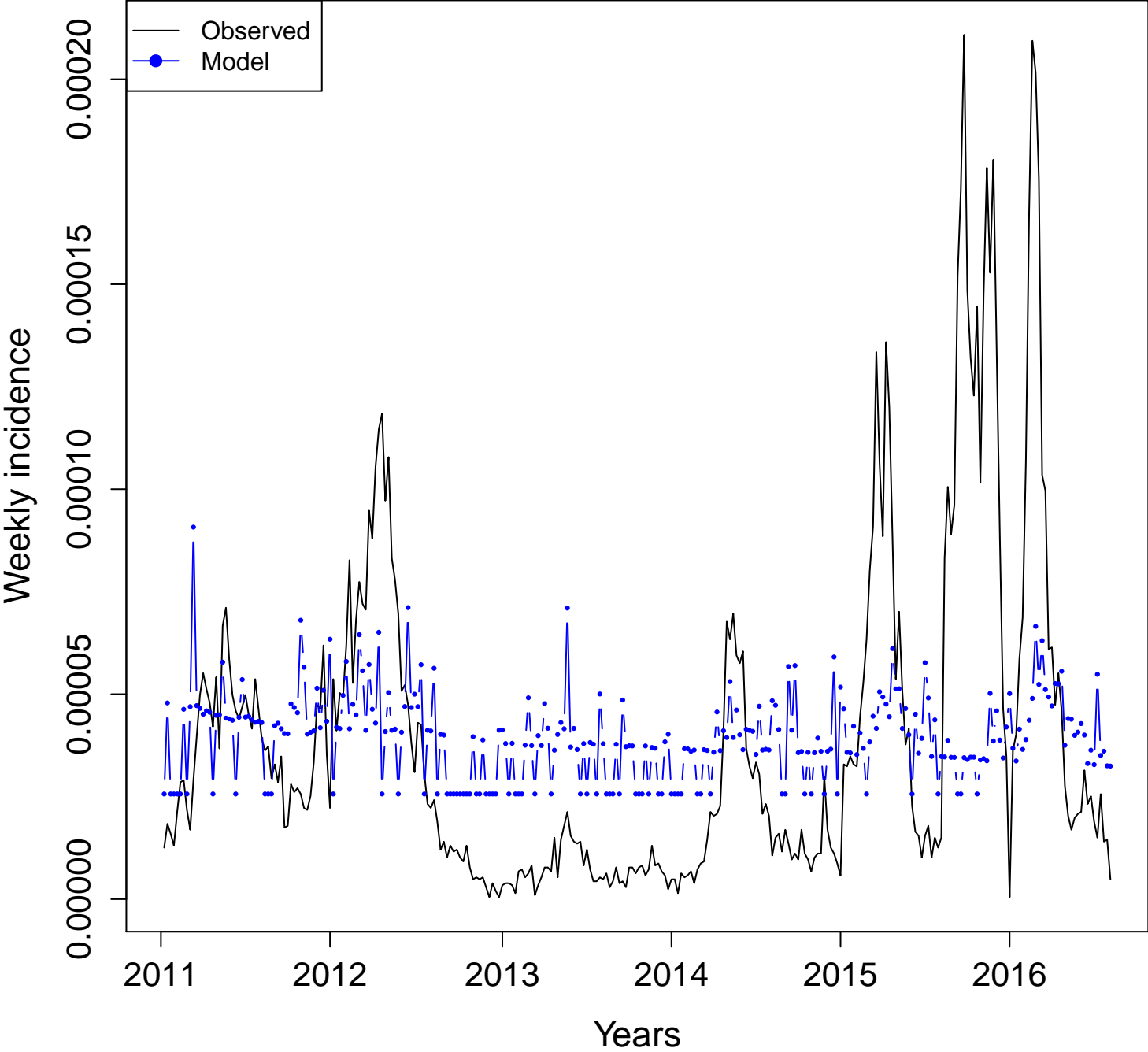


SE- mosquito

Adj. R squared = 0.1539



SE- sintomas.da.dengue
Adj. R squared = 0.0596



São Paulo (SP)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

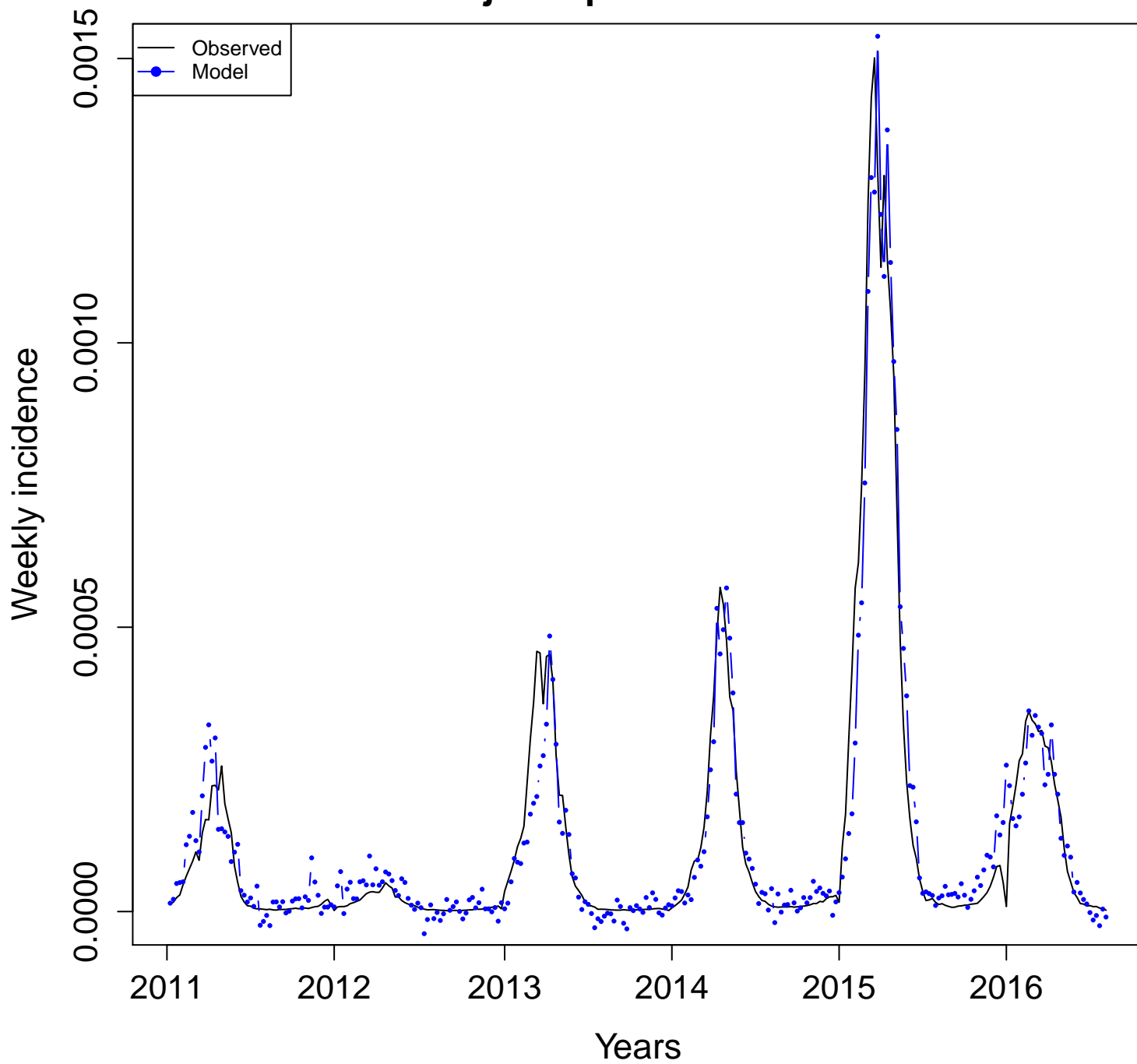
- **Combined terms:**
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 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. n = number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

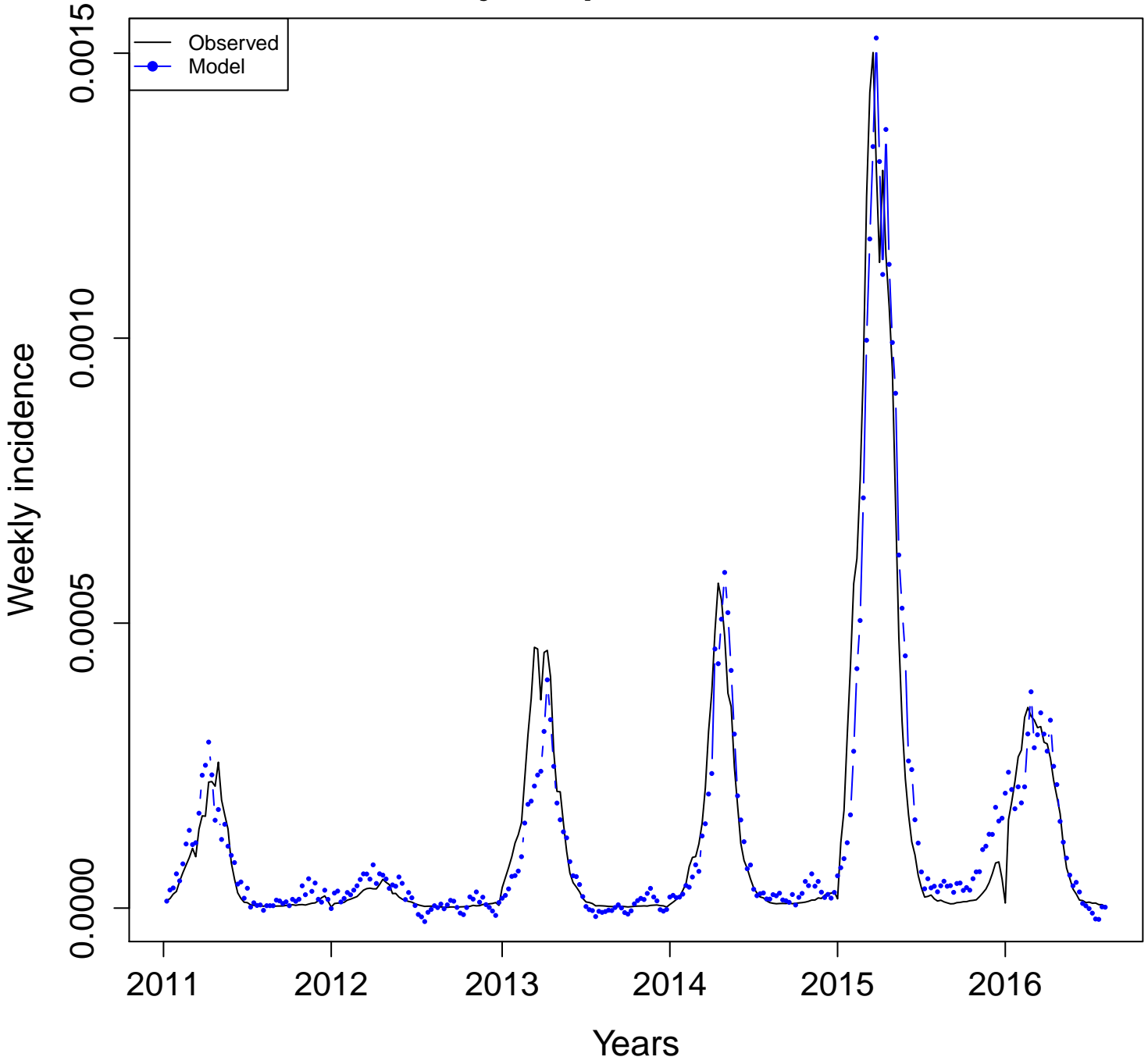
São Paulo (SP)

All
(n = 13)

BR-SP
Adj. R squared = 0.9295

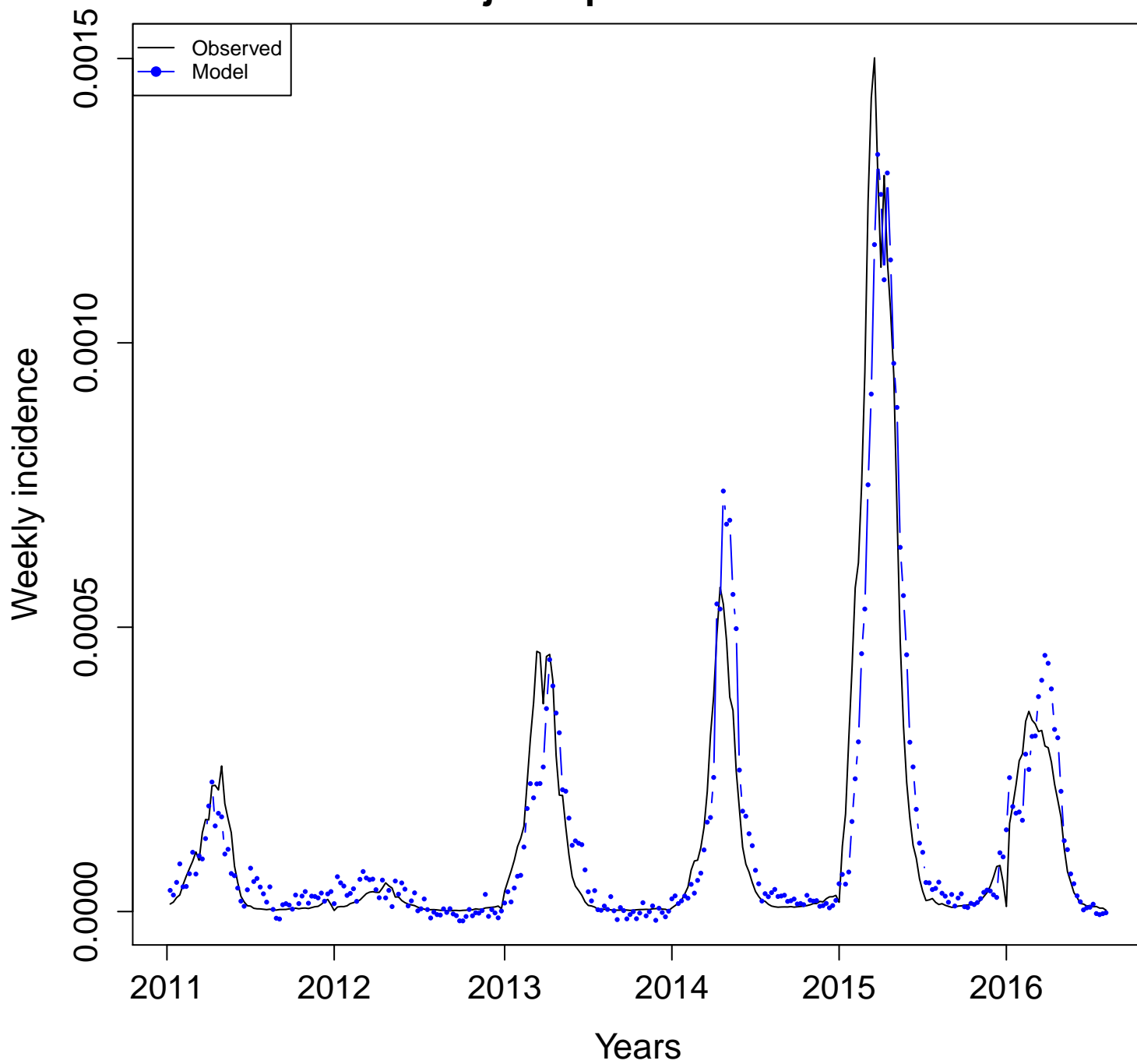


BR-SP
Adj. R squared = 0.9189



**Uncorrelated
(n = 6)**

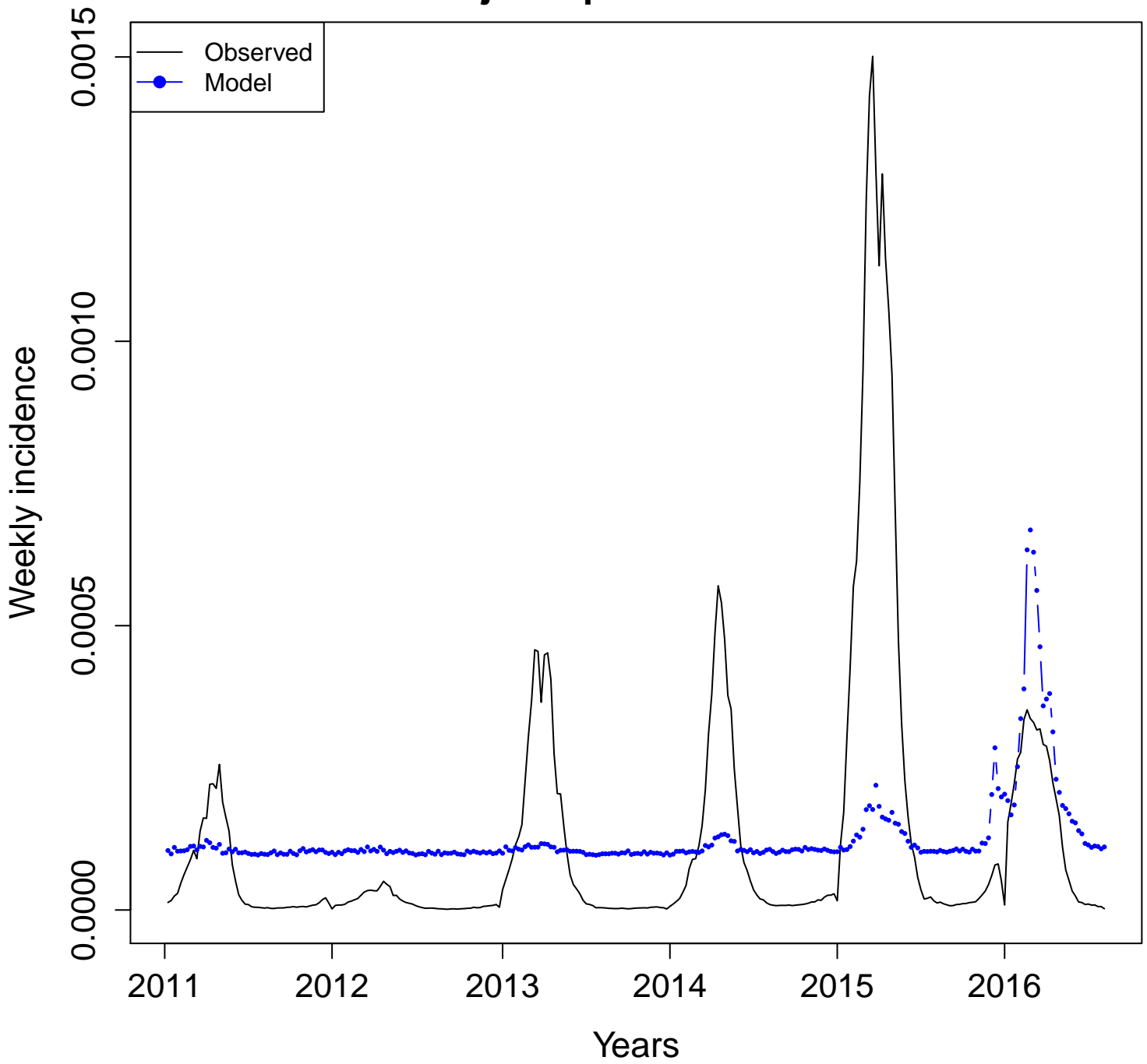
**BR-SP
Adj. R squared = 0.8614**



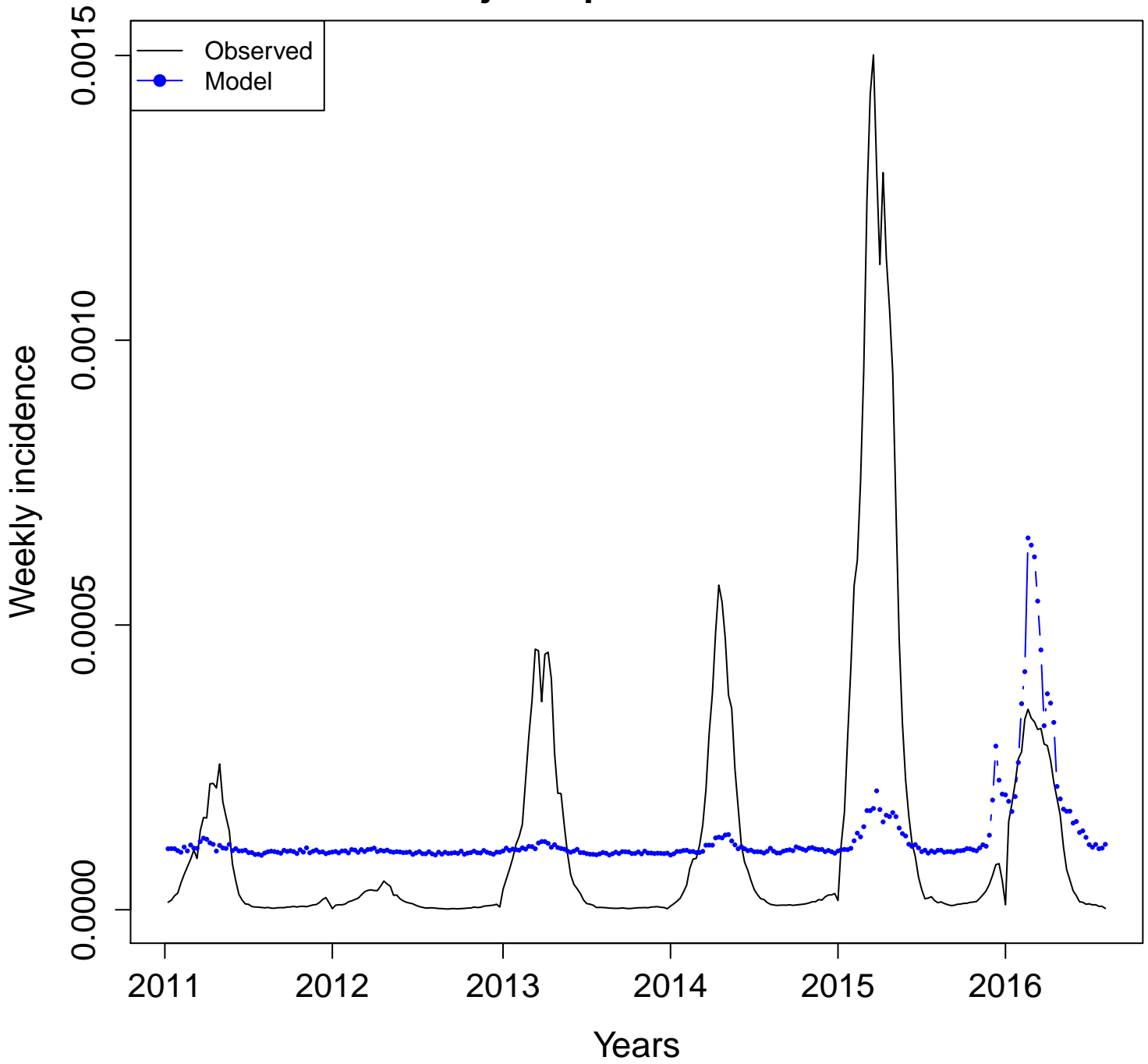
Individual terms
Adjusted R squared

São Paulo (SP)

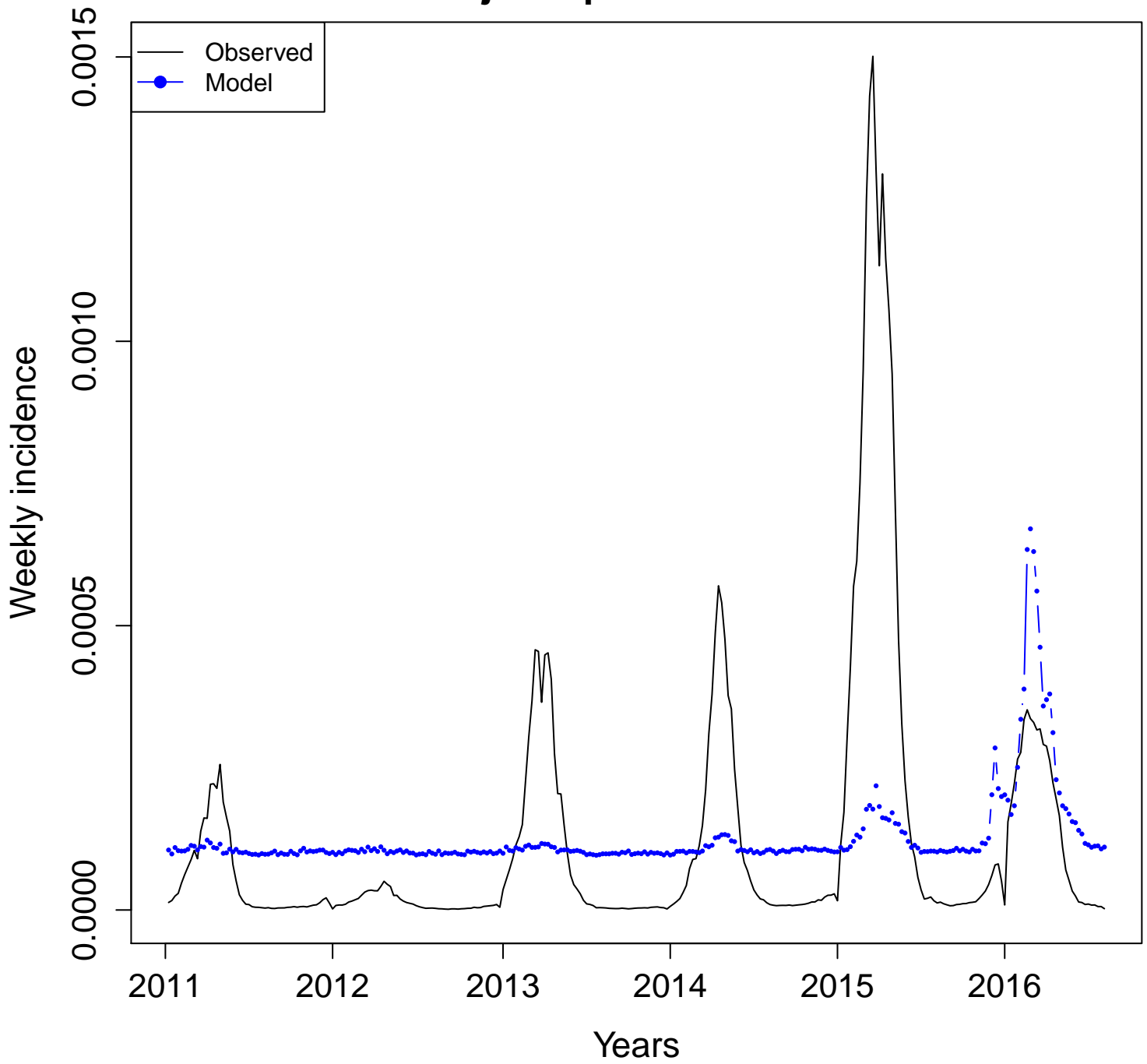
SP- aedes.aegypti
Adj. R squared = 0.0918



SP- aedes
Adj. R squared = 0.0901

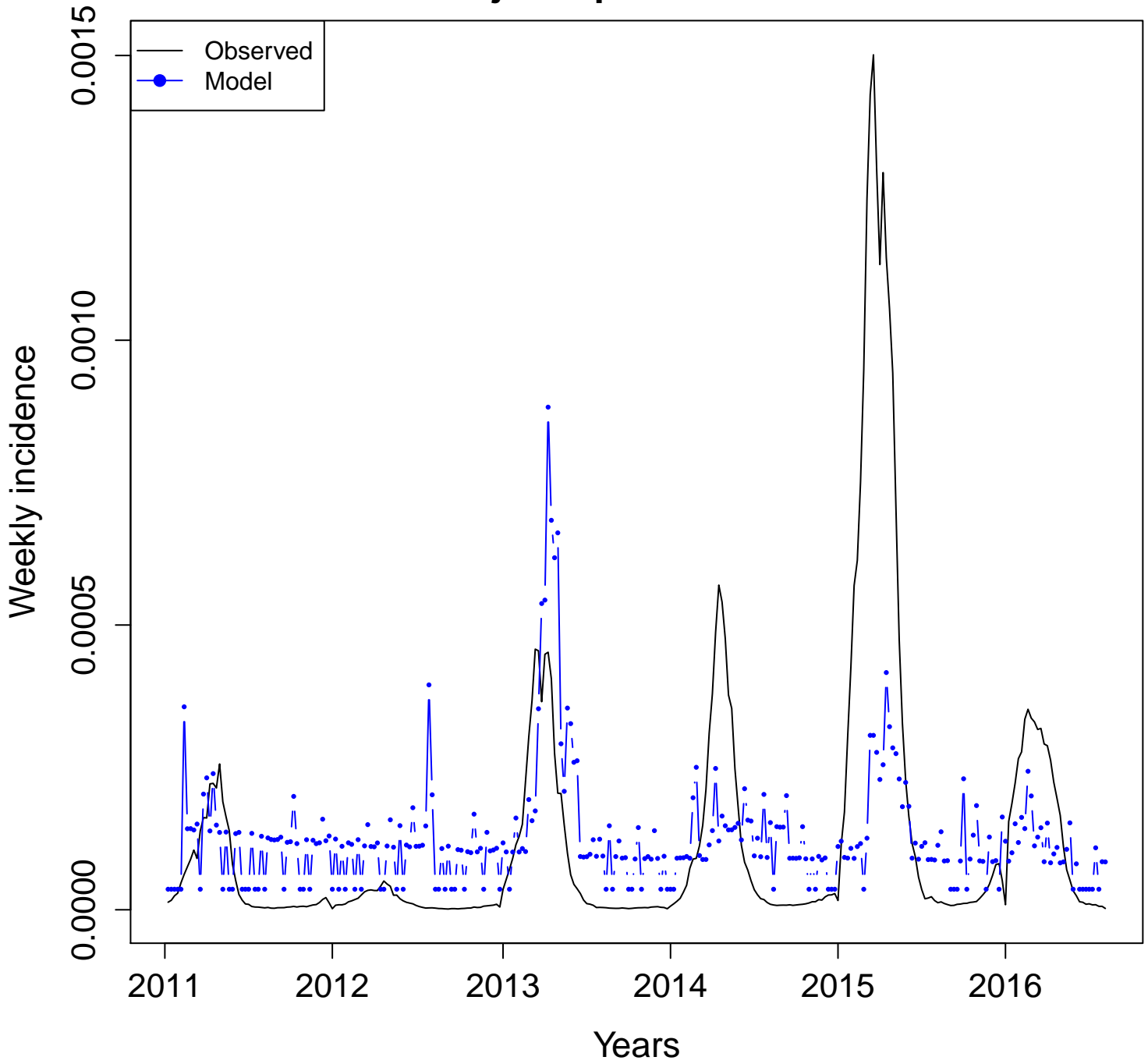


SP- aegypti
Adj. R squared = 0.0917

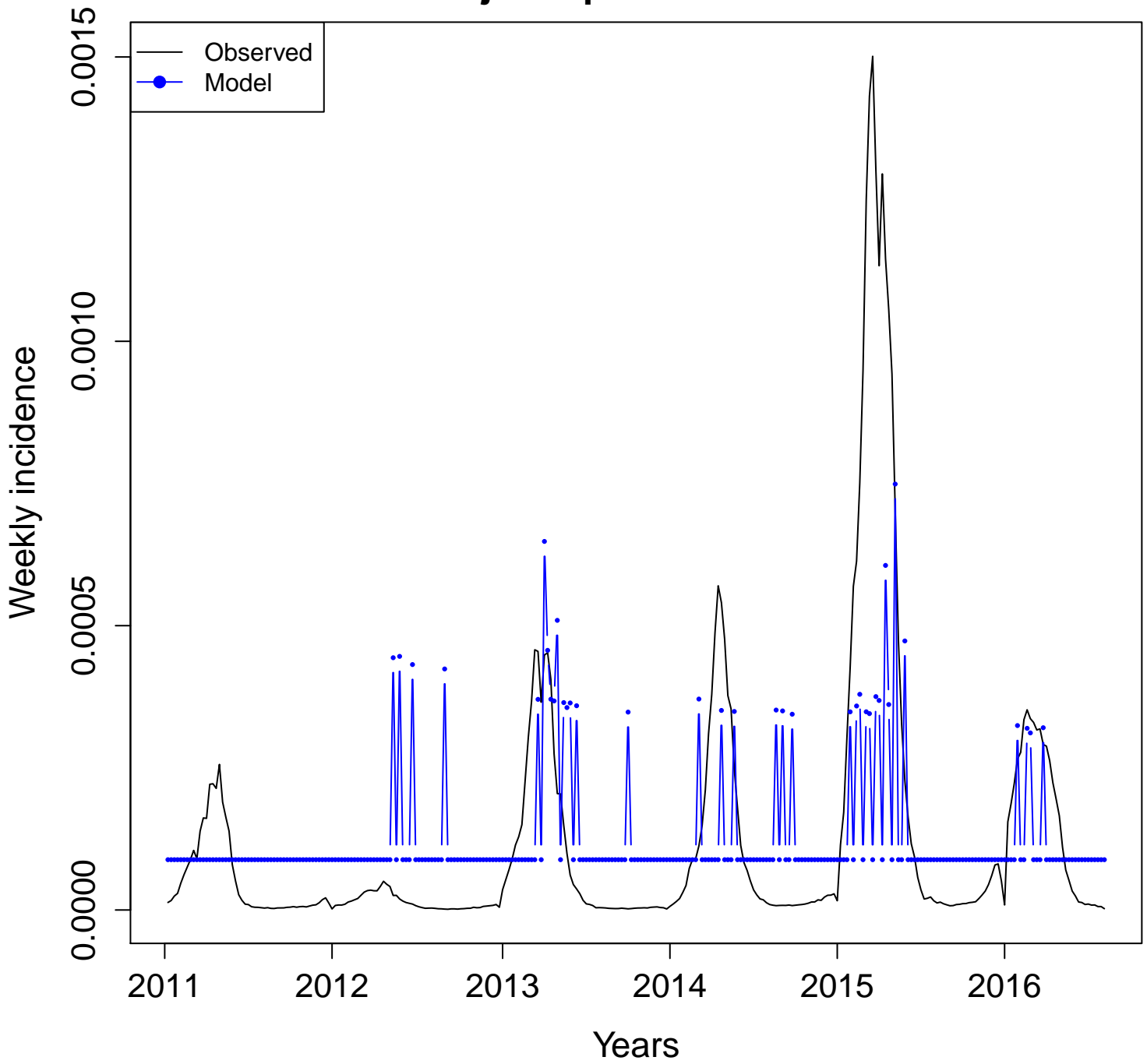


SP- dengue.fever

Adj. R squared = 0.177

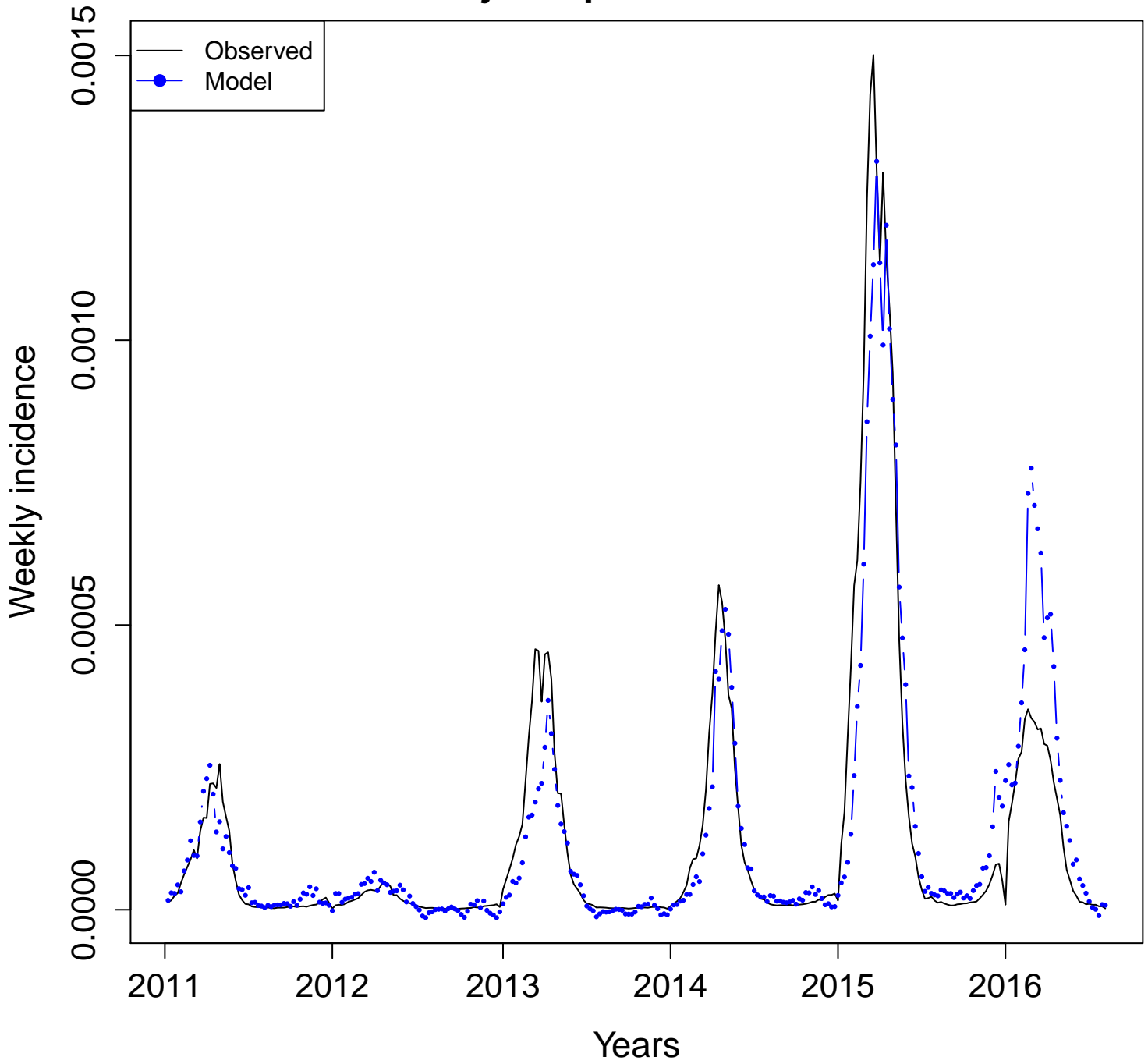


SP- dengue.hemorrhagic.fever
Adj. R squared = 0.1862

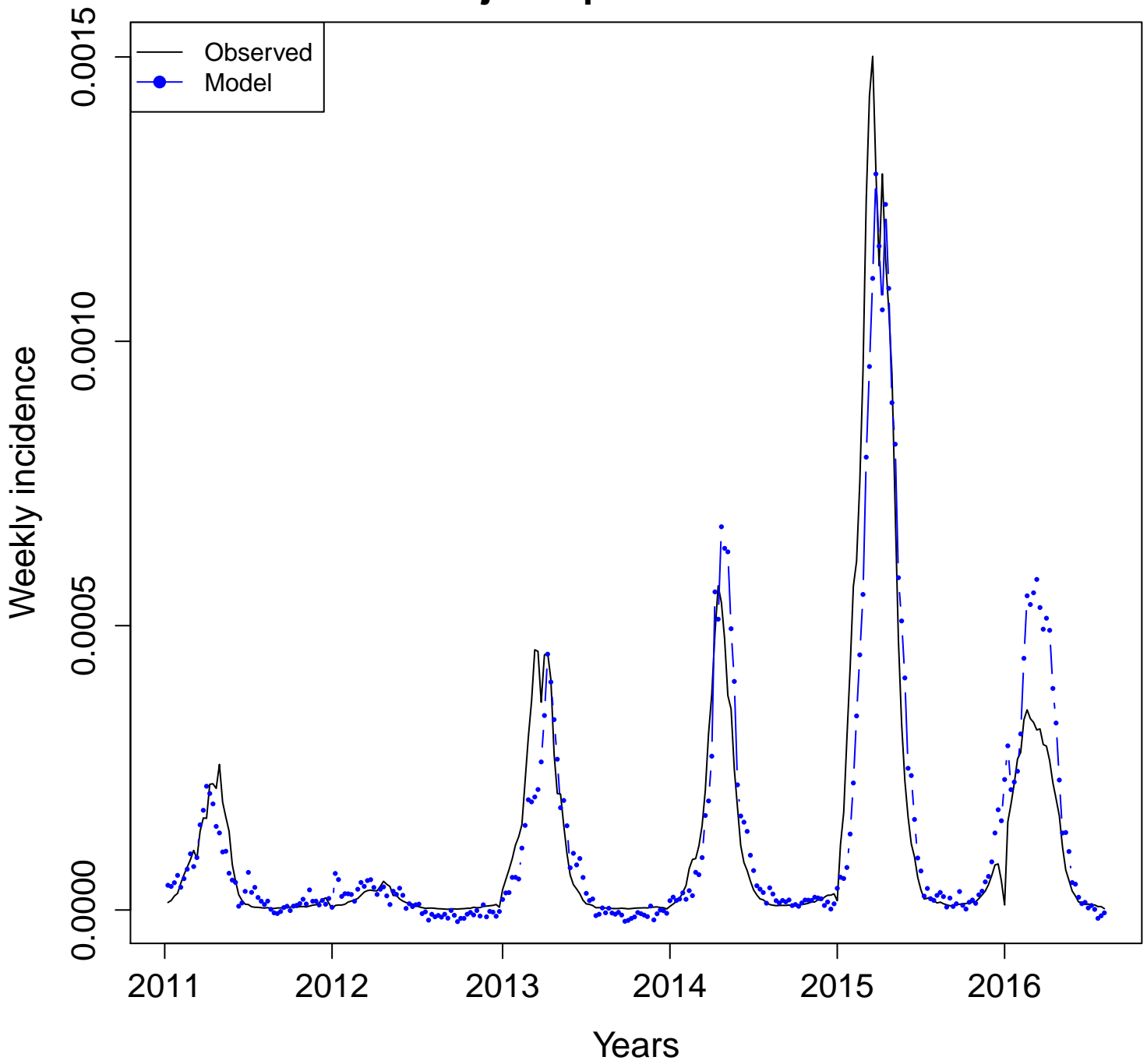


SP- dengue

Adj. R squared = 0.8443

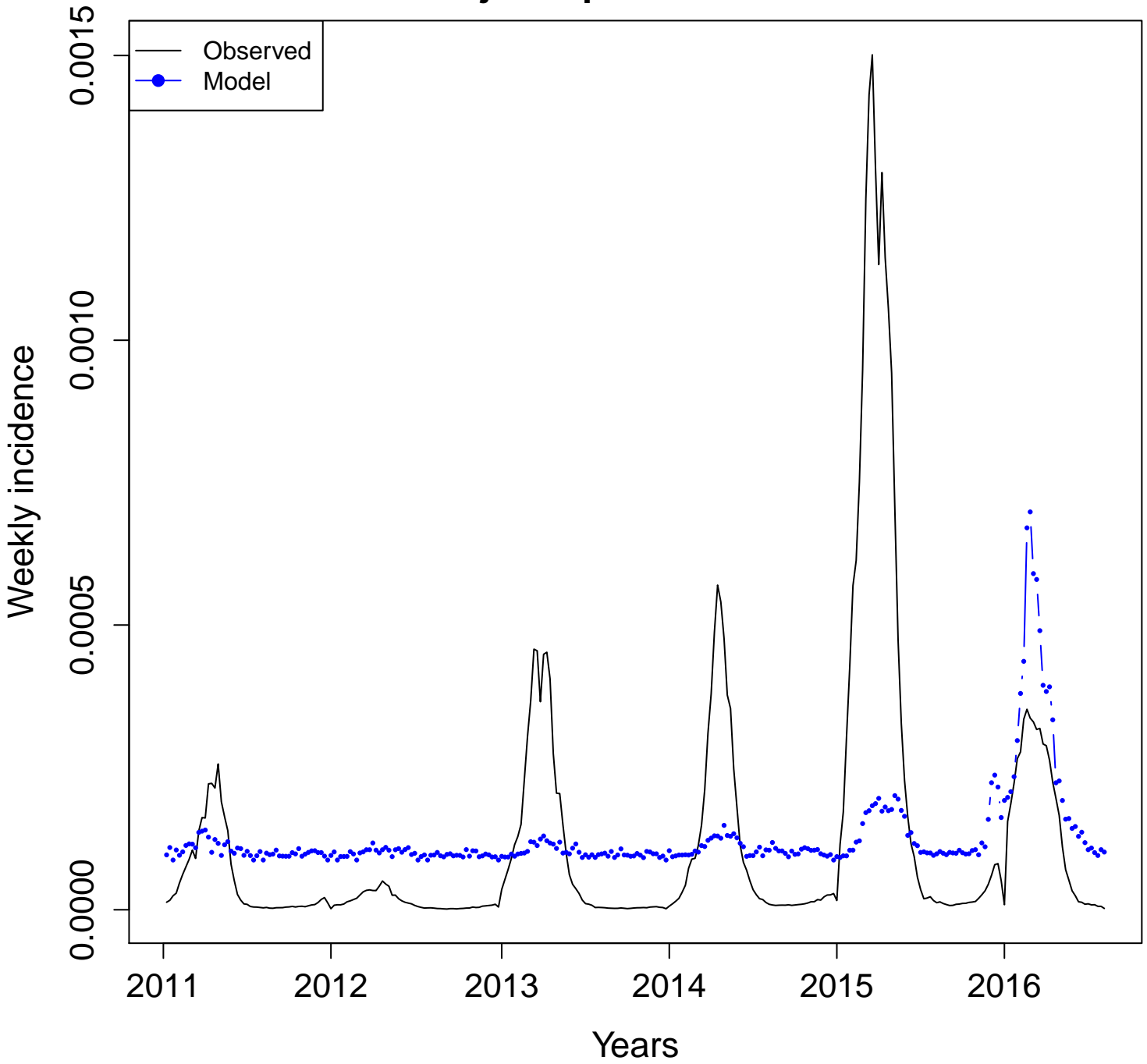


SP- dengue.sintomas
Adj. R squared = 0.8615



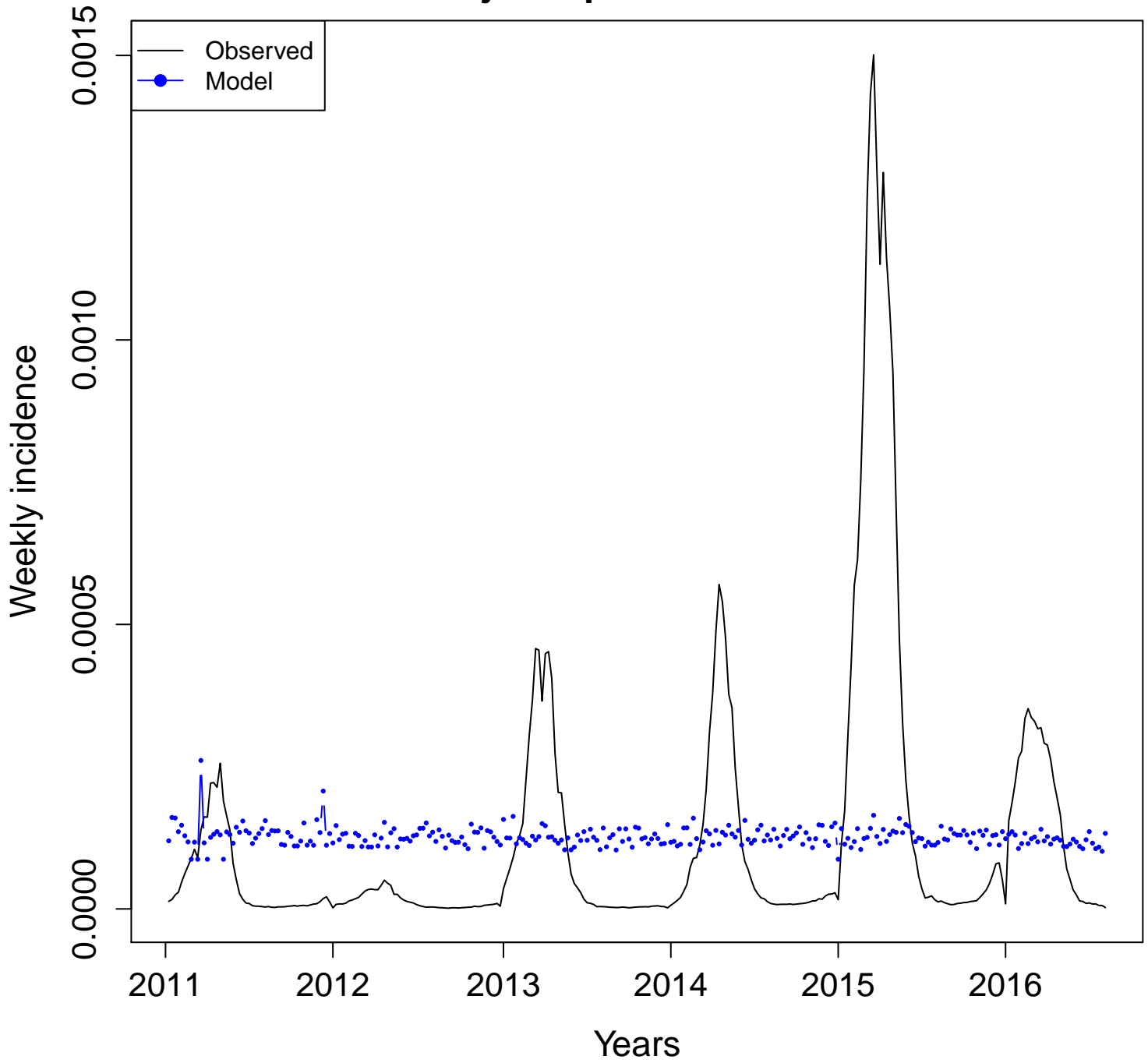
SP- dengue.virus

Adj. R squared = 0.1043

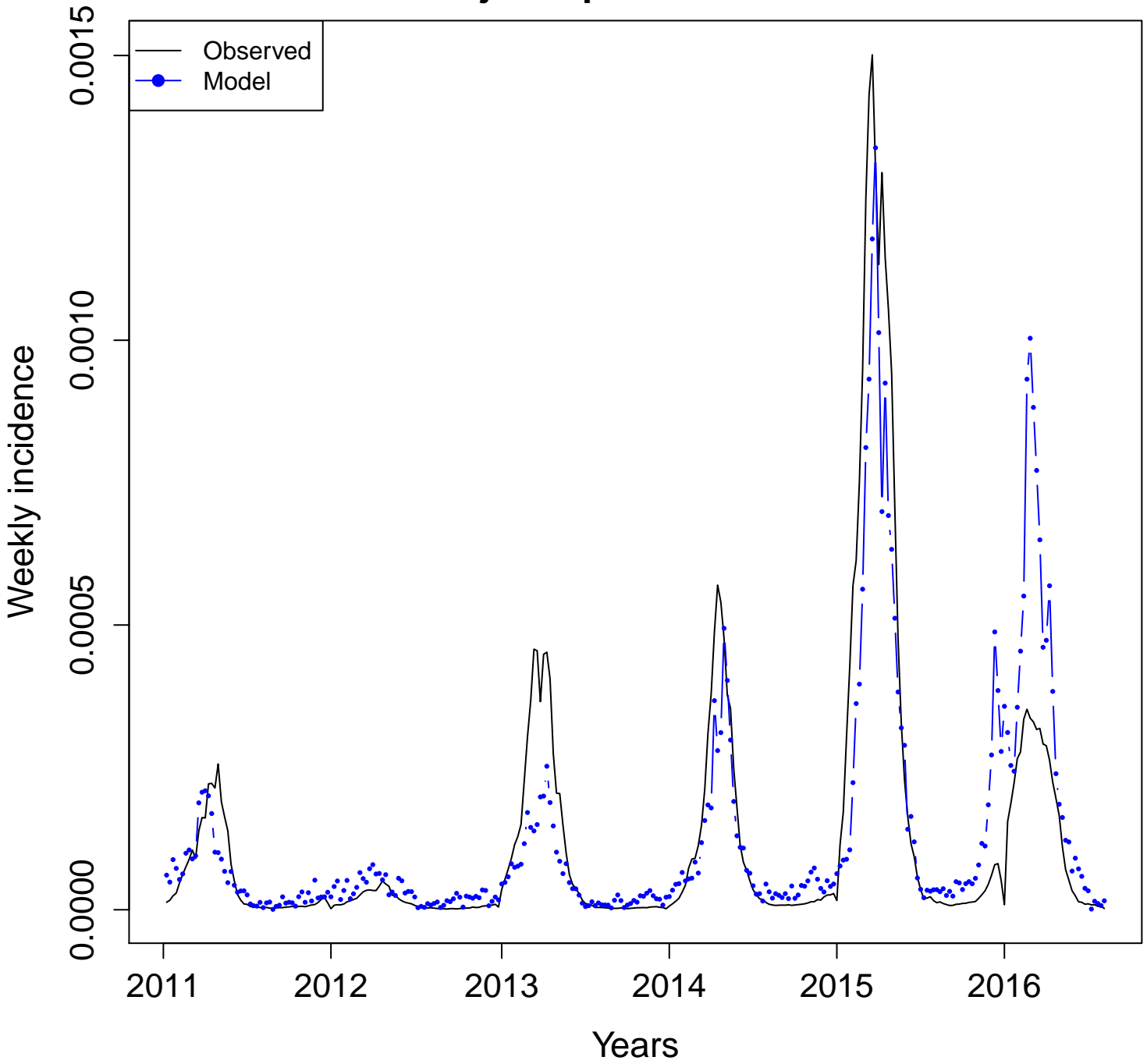


SP- DHF

Adj. R squared = 0.0012

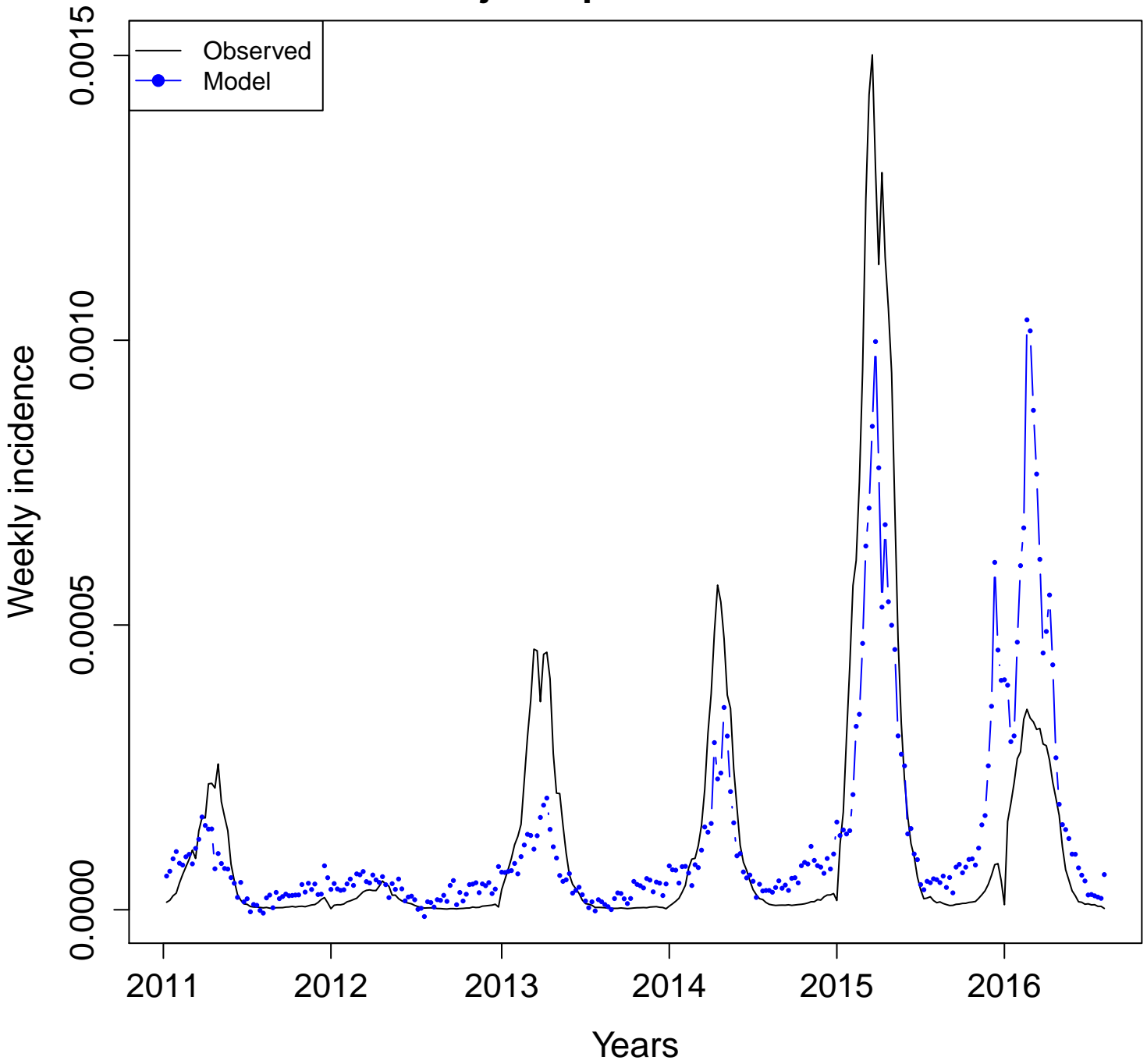


SP- mosquito.dengue
Adj. R squared = 0.7186



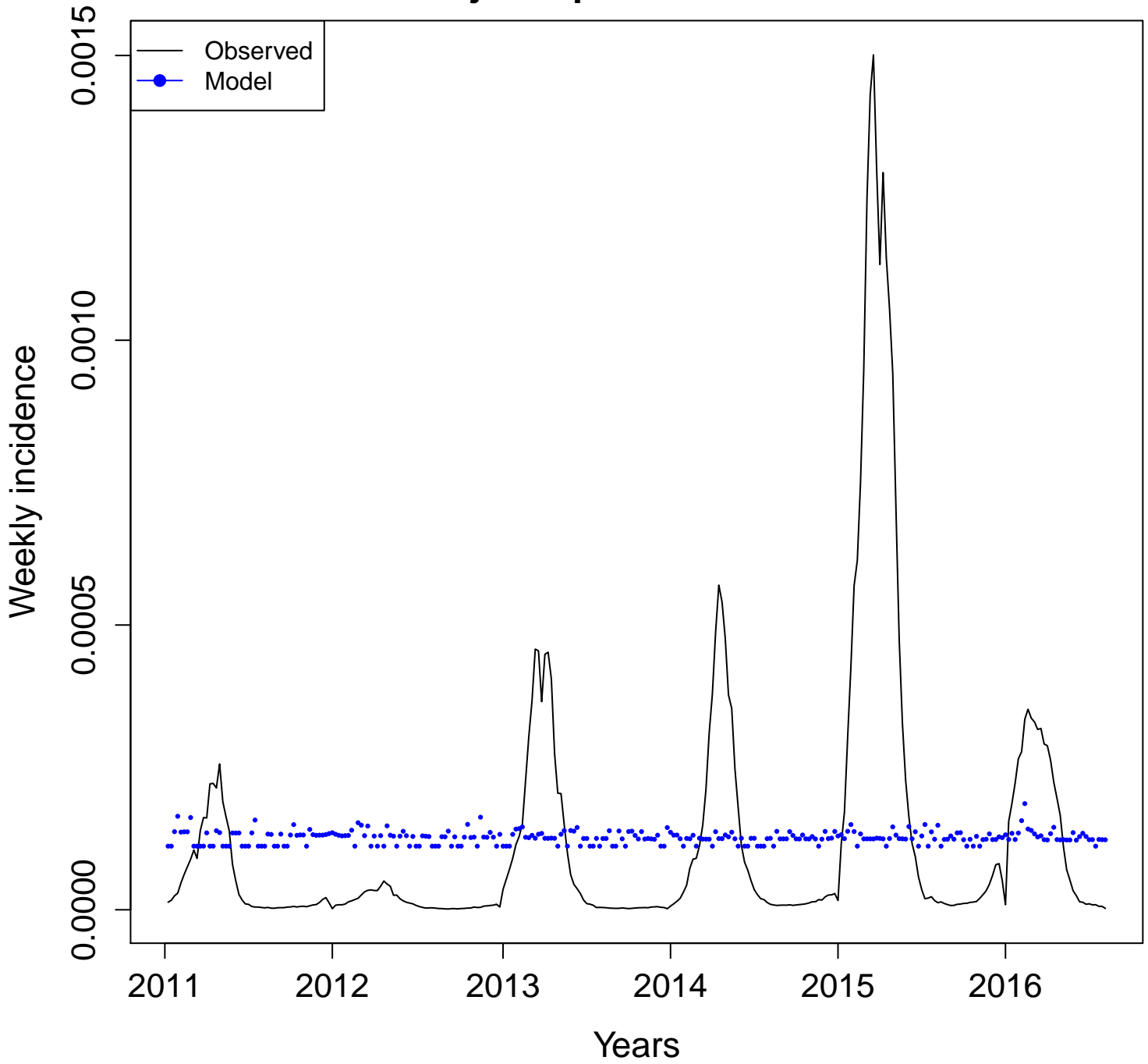
SP- mosquito

Adj. R squared = 0.5507

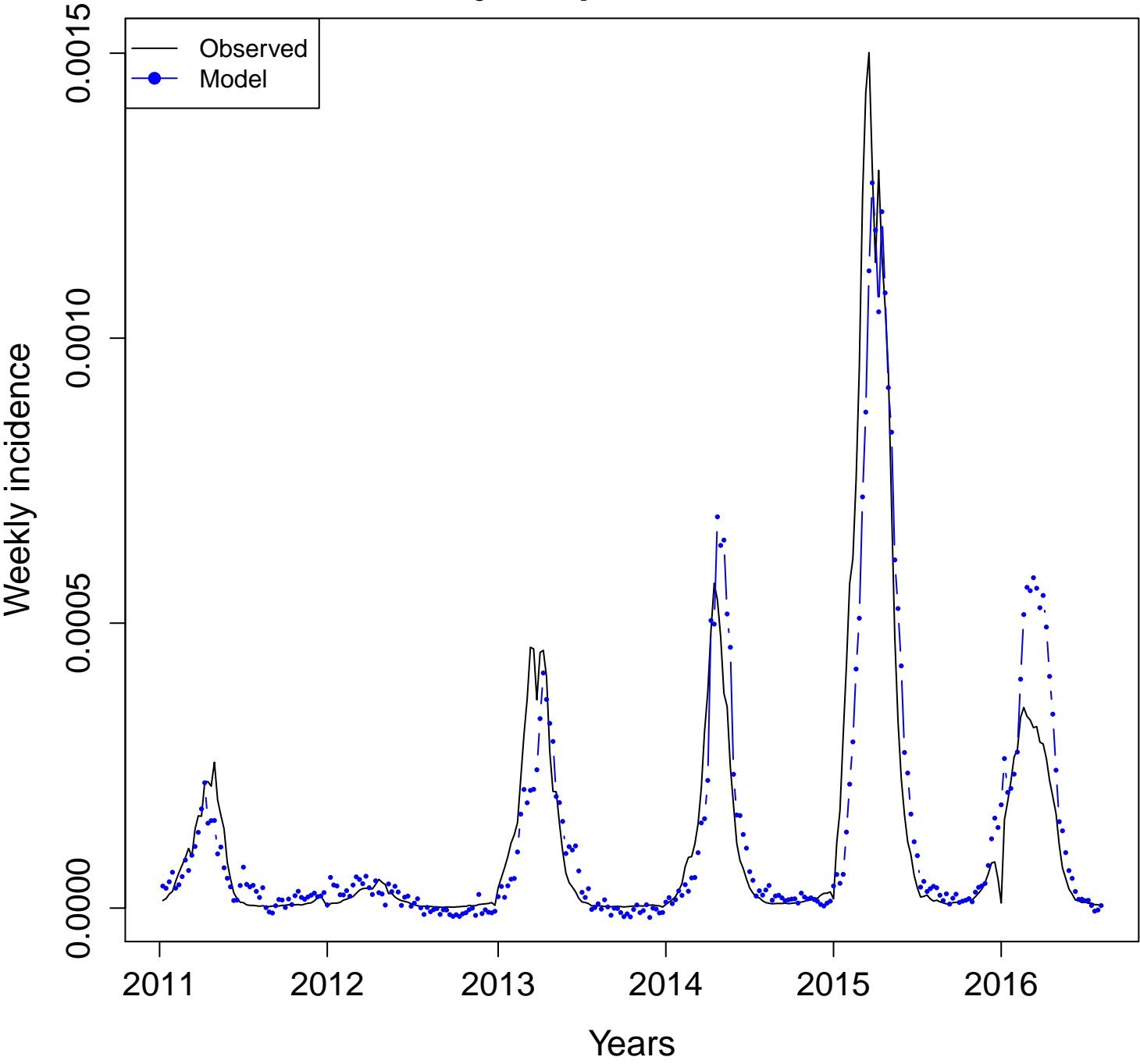


SP- mosquitoes

Adj. R squared = -0.0012



SP- sintomas.da.dengue
Adj. R squared = 0.8396



Tocantins (TO)

Dengue incidence vs. Google Health Trends (2011–2016)

Definitions:

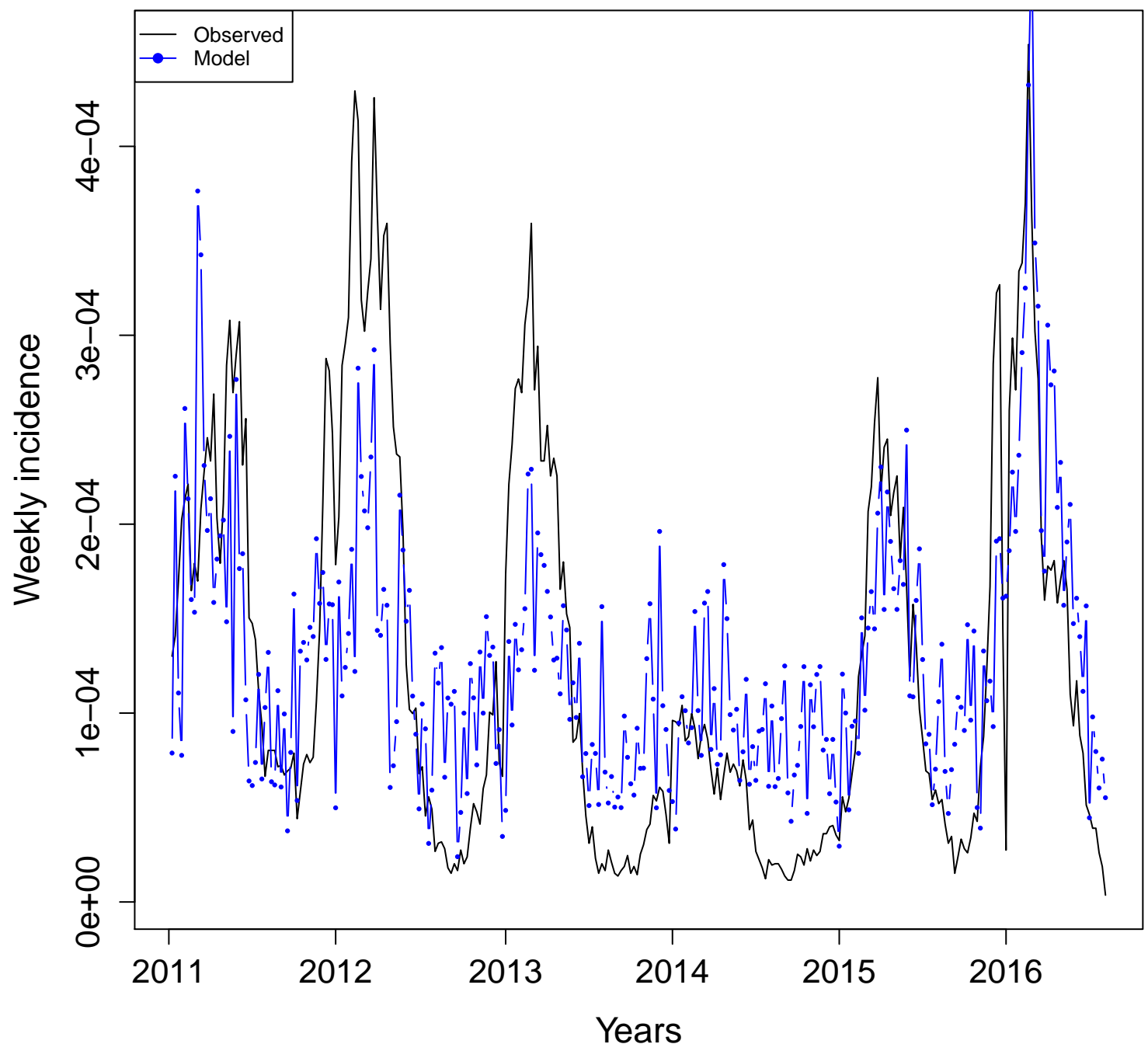
- **Combined terms:**
 - **All:** model with all the available terms. $n =$ number of terms
 - **Four:** model with "dengue", "dengue sintomas", "aedes", and "mosquito".
 - **Uncorrelated:** model with non-correlated terms. $n =$ number of uncorrelated terms
- **Individual terms:** Plots developed with one term at a time.
- Terms for all and uncorrelated models can be found in additional file 3.

Combined terms
Adjusted R squared

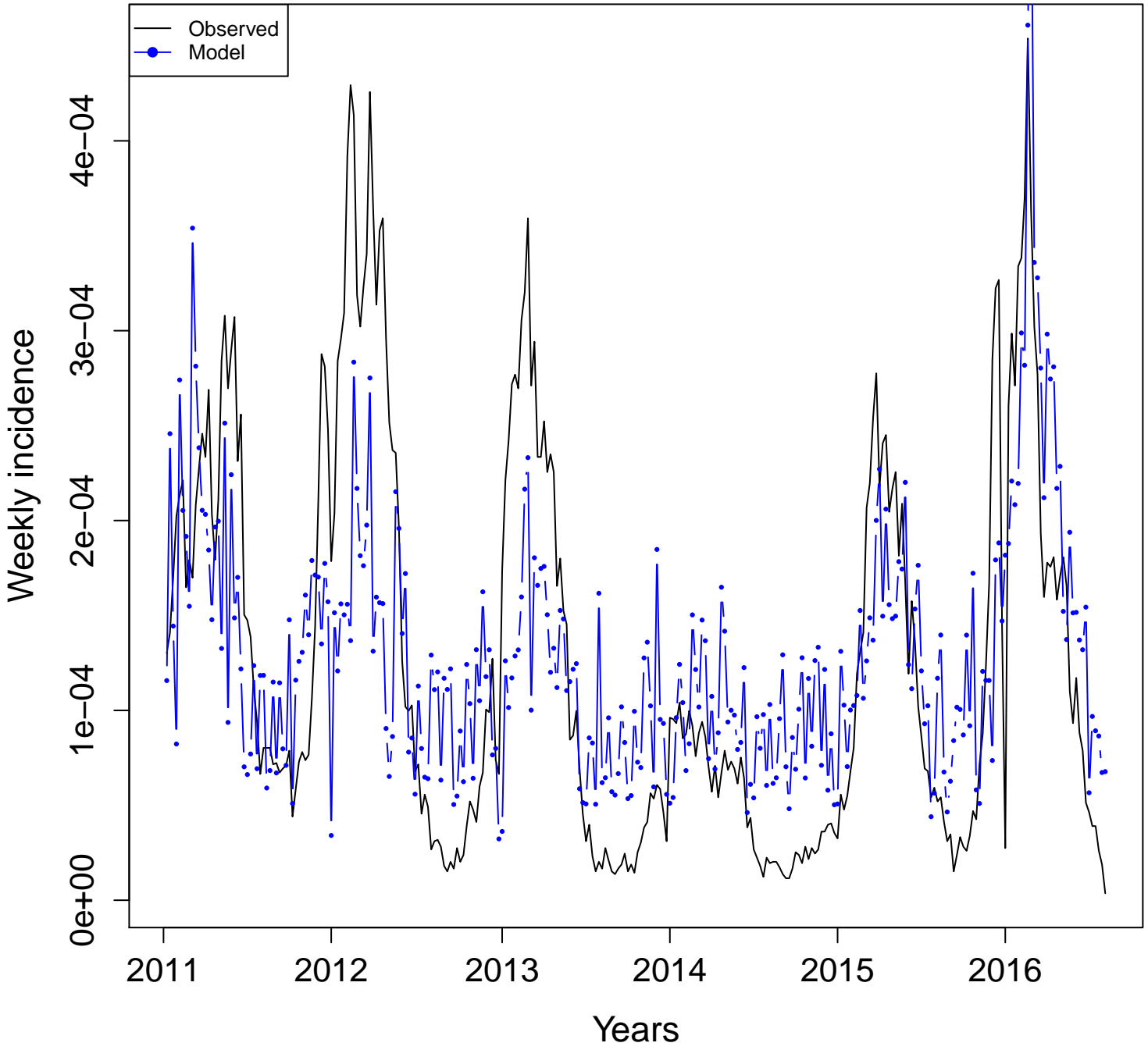
Tocantins (TO)

All
(n = 8)

BR-TO
Adj. R squared = 0.4151

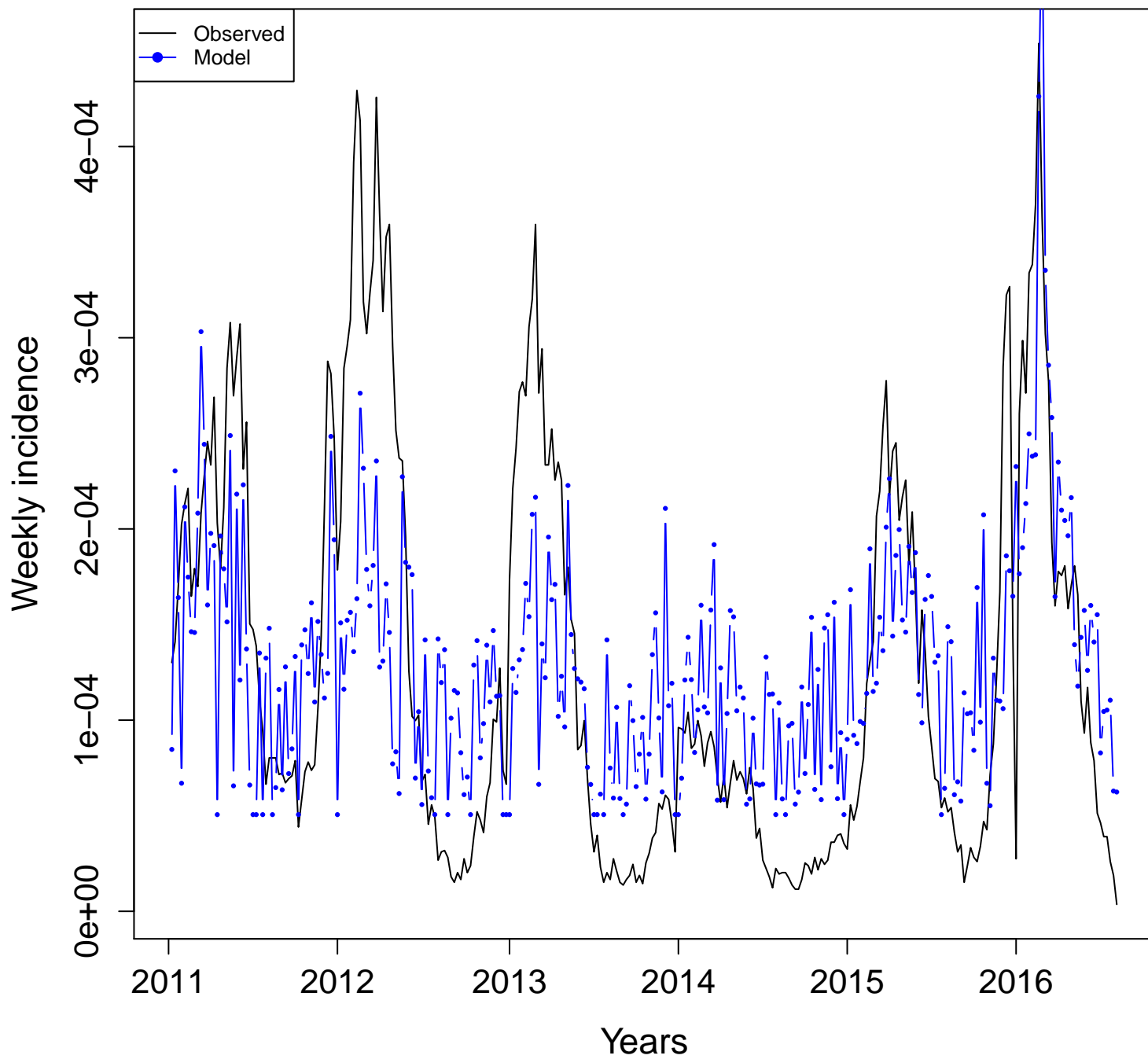


BR-TO
Adj. R squared = 0.4009



**Uncorrelated
(n = 3)**

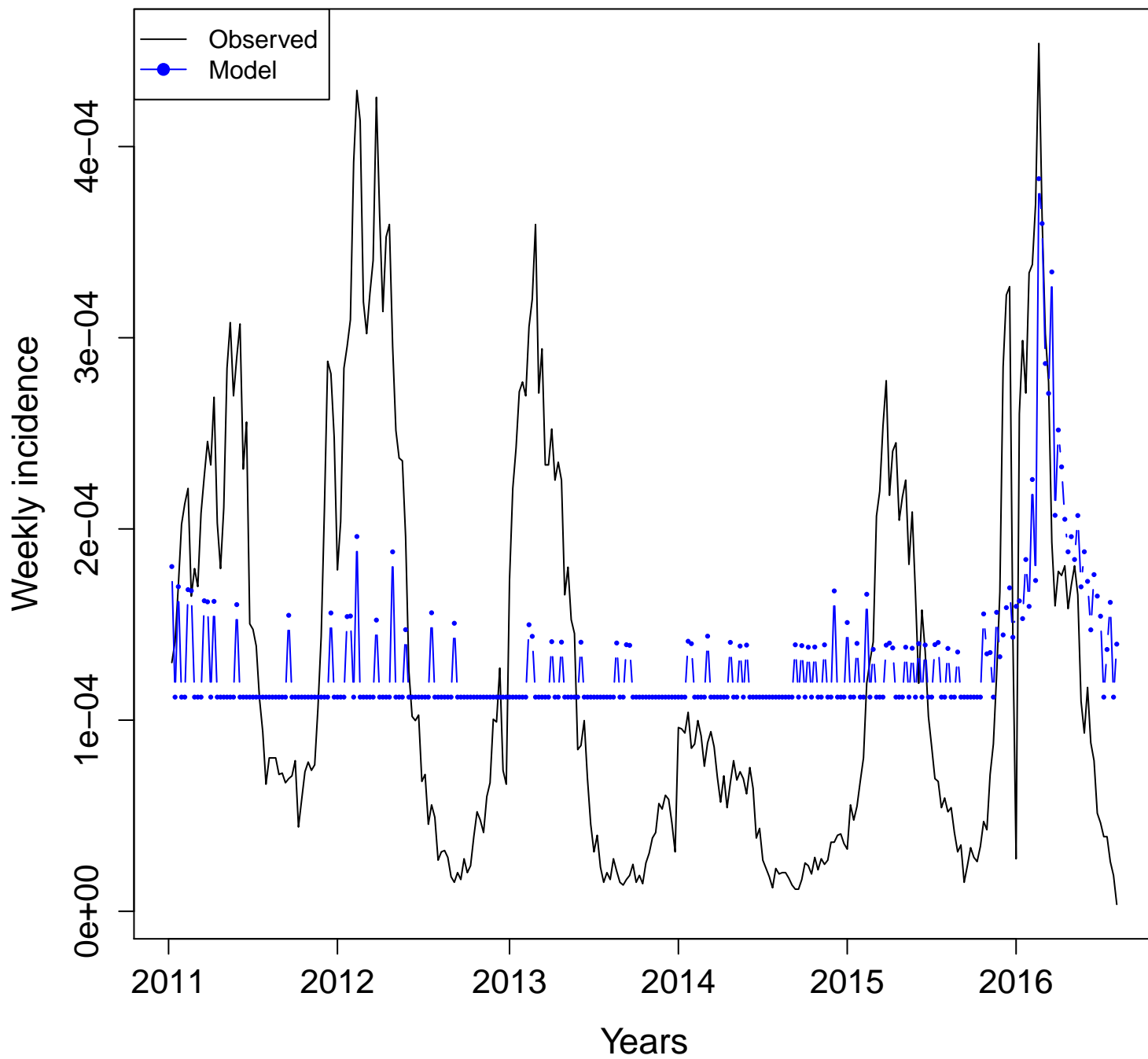
**BR-TO
Adj. R squared = 0.3415**



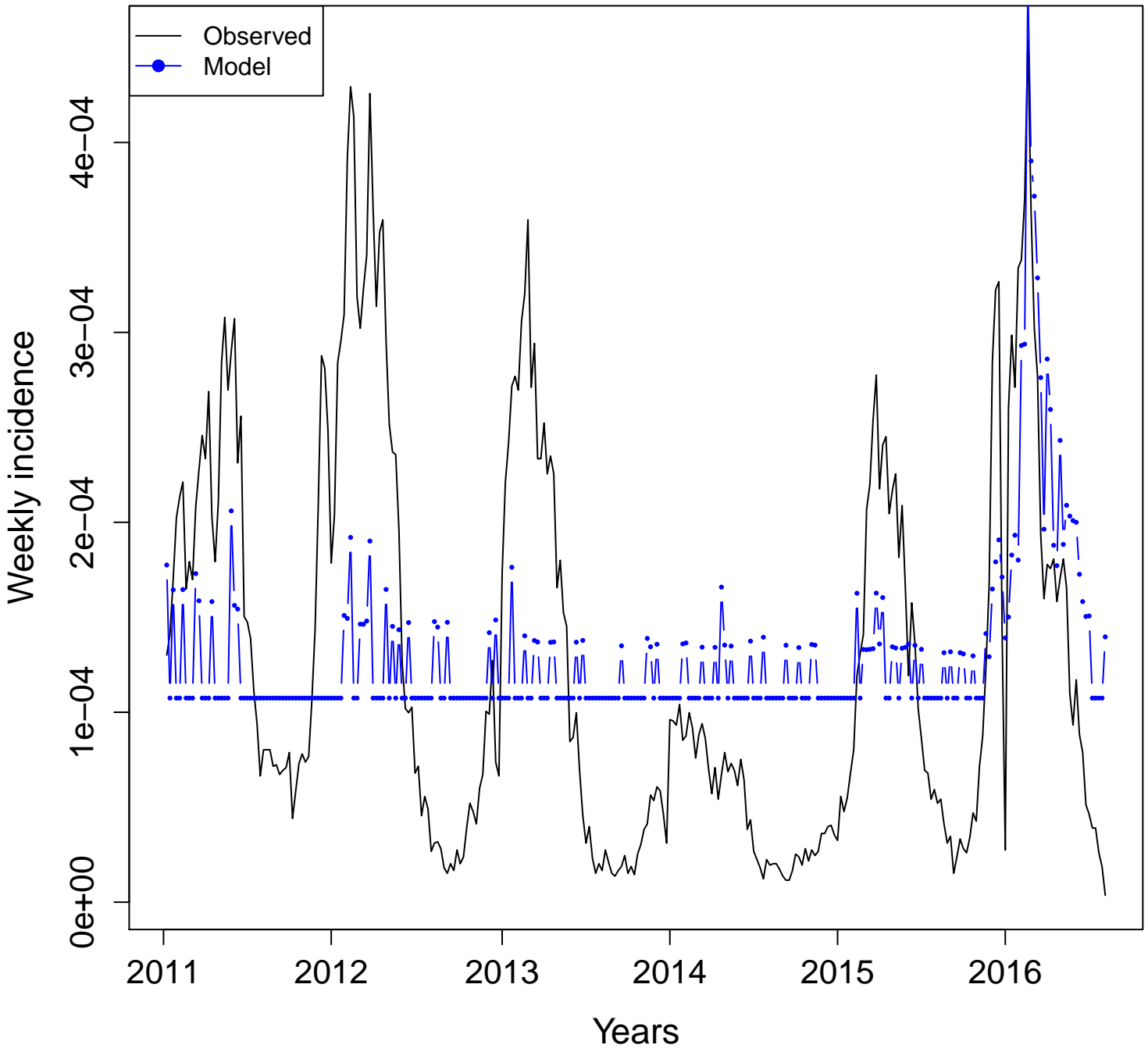
Individual terms
Adjusted R squared

Tocantins (TO)

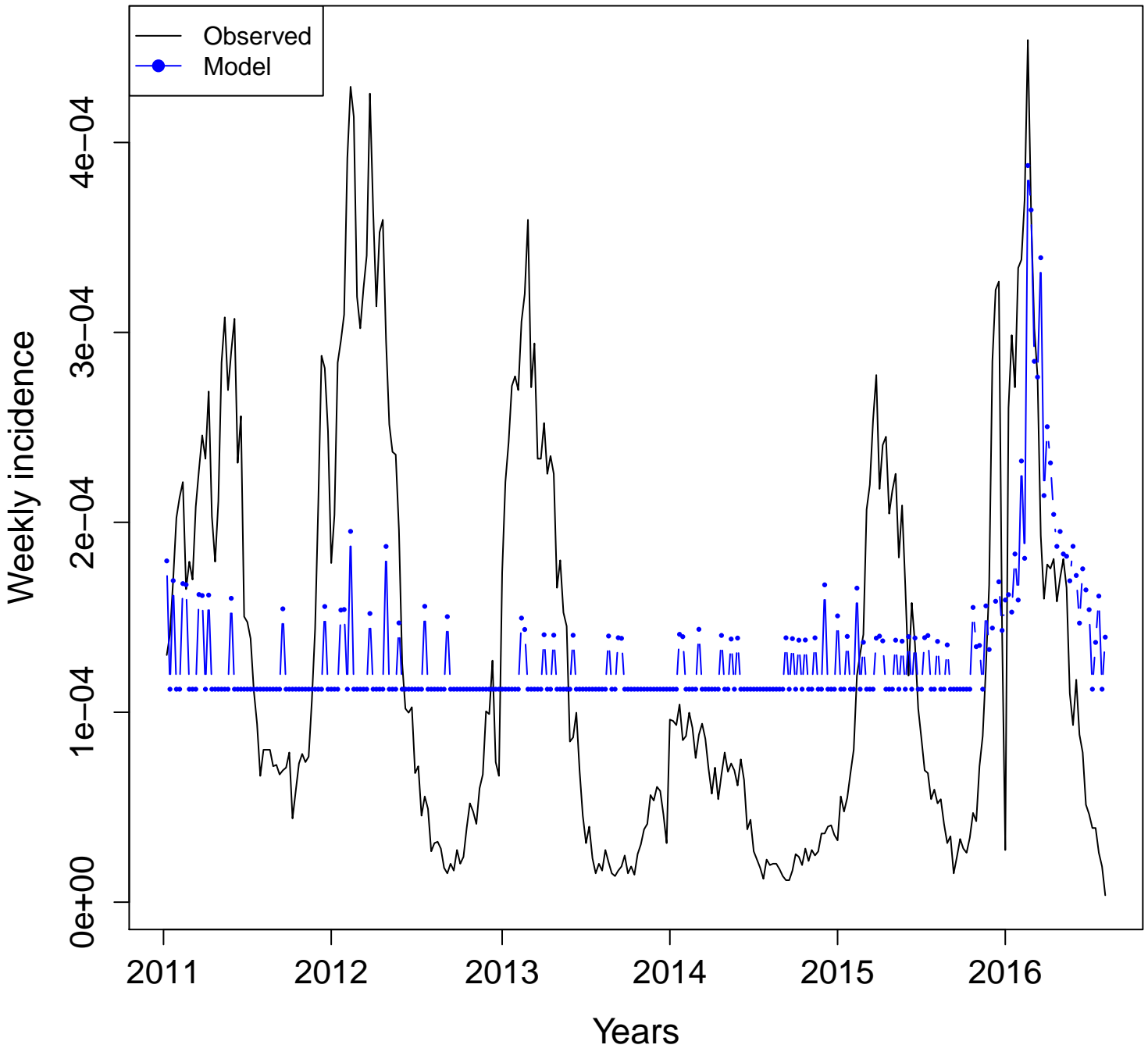
TO- aedes.aegypti
Adj. R squared = 0.113



TO- aedes
Adj. R squared = 0.1808

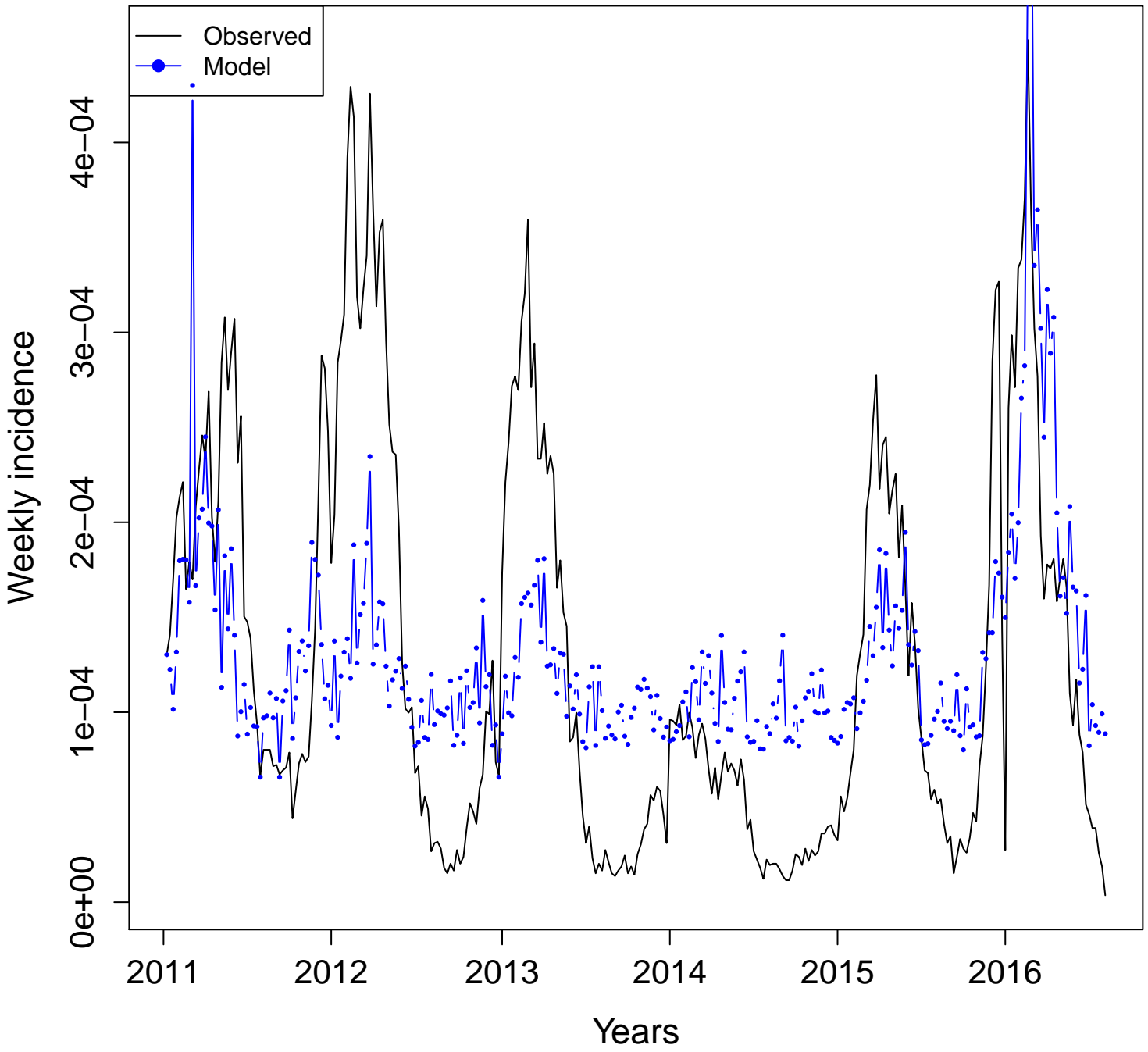


TO- aegypti
Adj. R squared = 0.1144

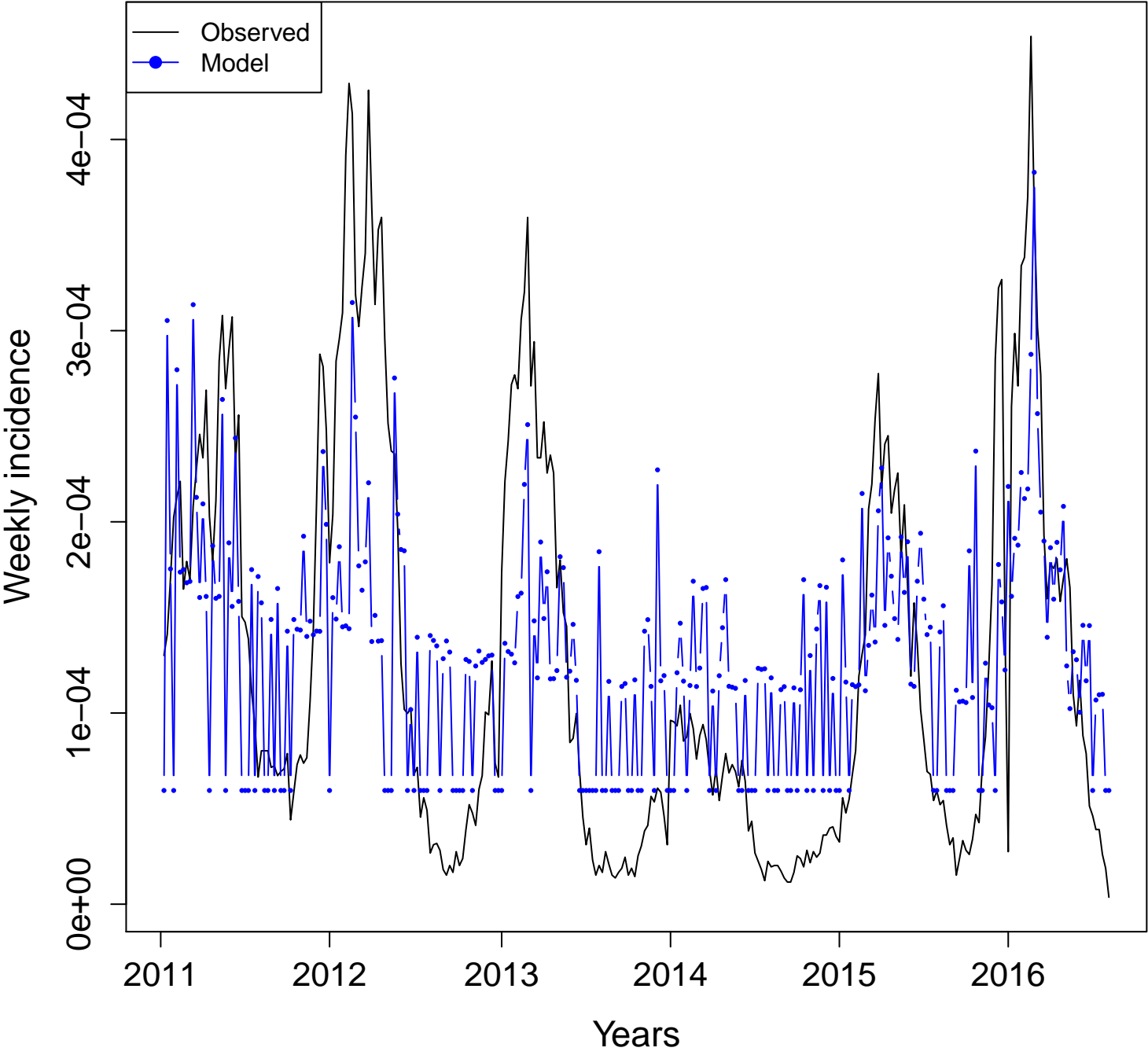


TO- dengue

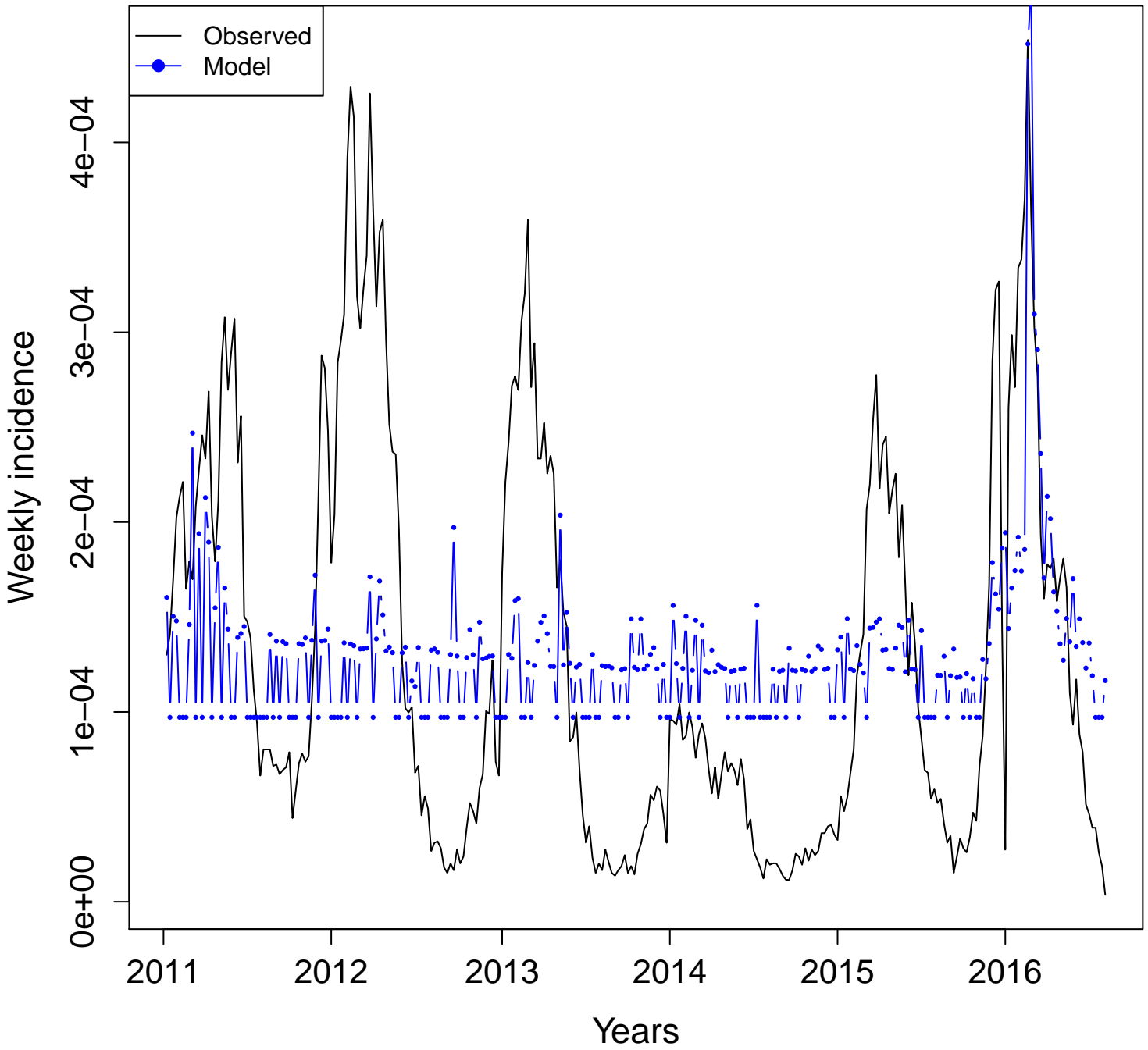
Adj. R squared = 0.3133



TO- dengue.sintomas
Adj. R squared = 0.303

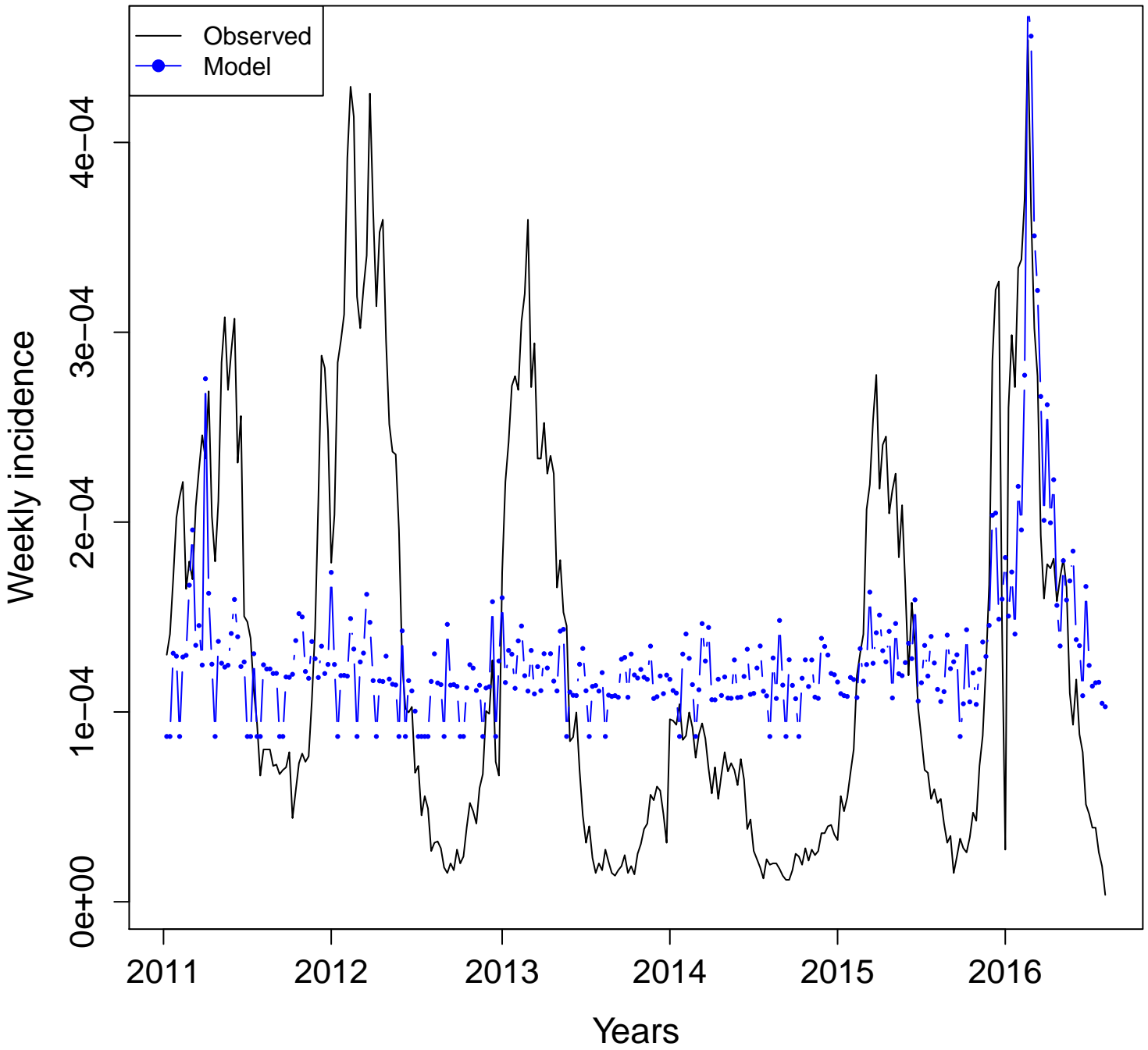


TO- mosquito.dengue
Adj. R squared = 0.15



TO- mosquito

Adj. R squared = 0.1681



TO- sintomas.da.dengue
Adj. R squared = 0.1842

