A Space-time Study of Hemorrhagic Fever with Renal Syndrome (HFRS) and its Climatic Associations in Heilongjiang Province, China

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Supporting Information

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(a) Distribution of data points in S/TRF

(b) Distribution of data points in SRF

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Figure S1: Distribution of data points in (*a*) the $R^2 \times T$ domain and (*b*) the R^2 domain. Same geographic coordinate points from different time instants are overlapped in (*a*); Points from different time were gathered together, which seem like one point in (*b*).

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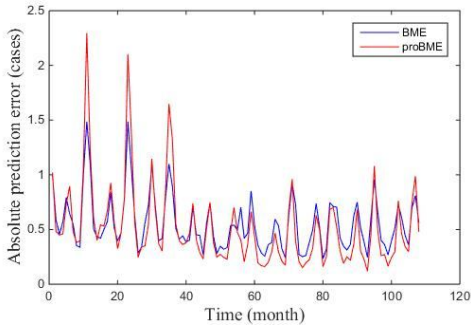
Figure S2: Mean absolute prediction error of cross validation in each month.
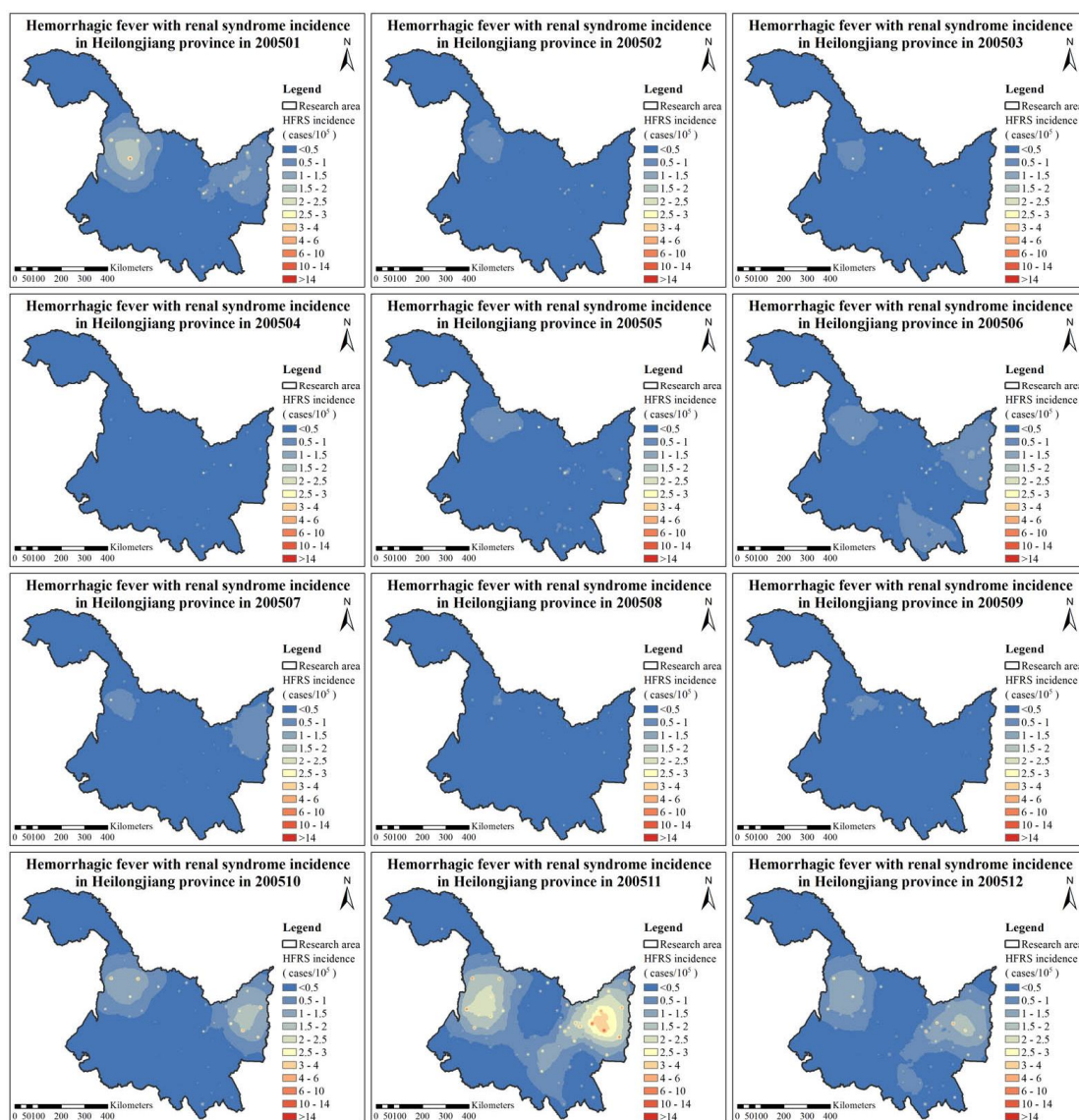
29

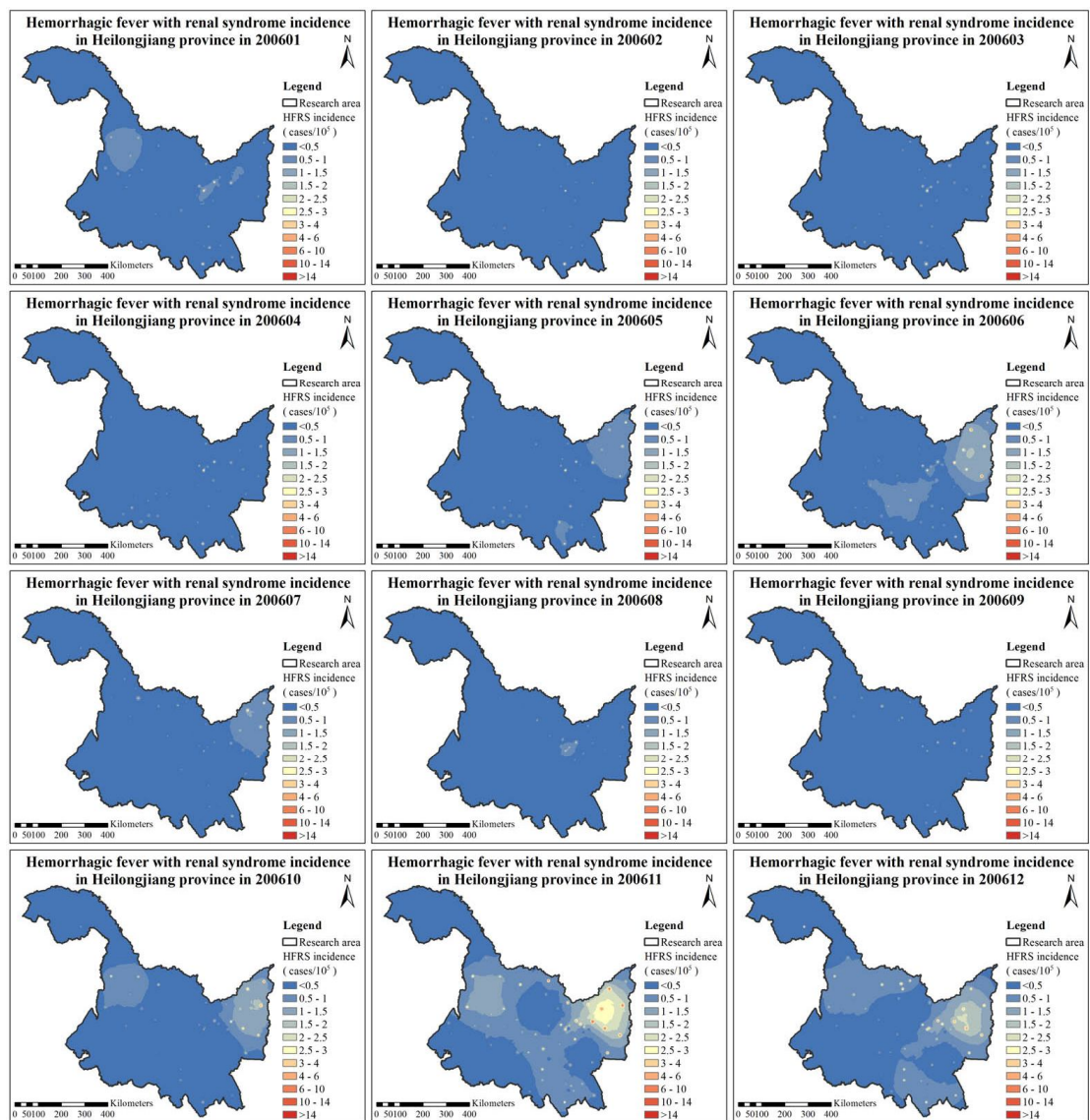Figure S3: HFRS incidence maps in 2005.

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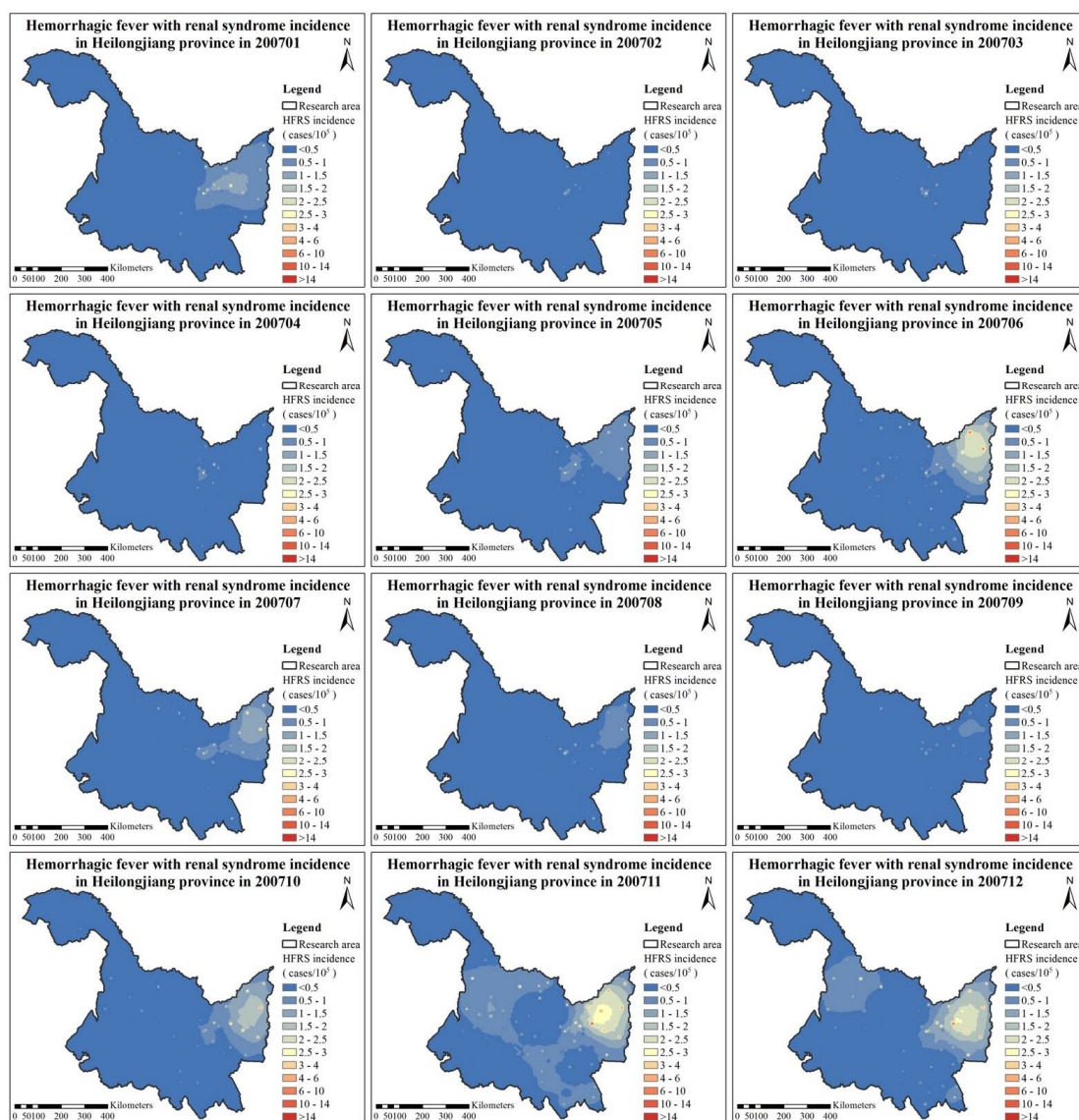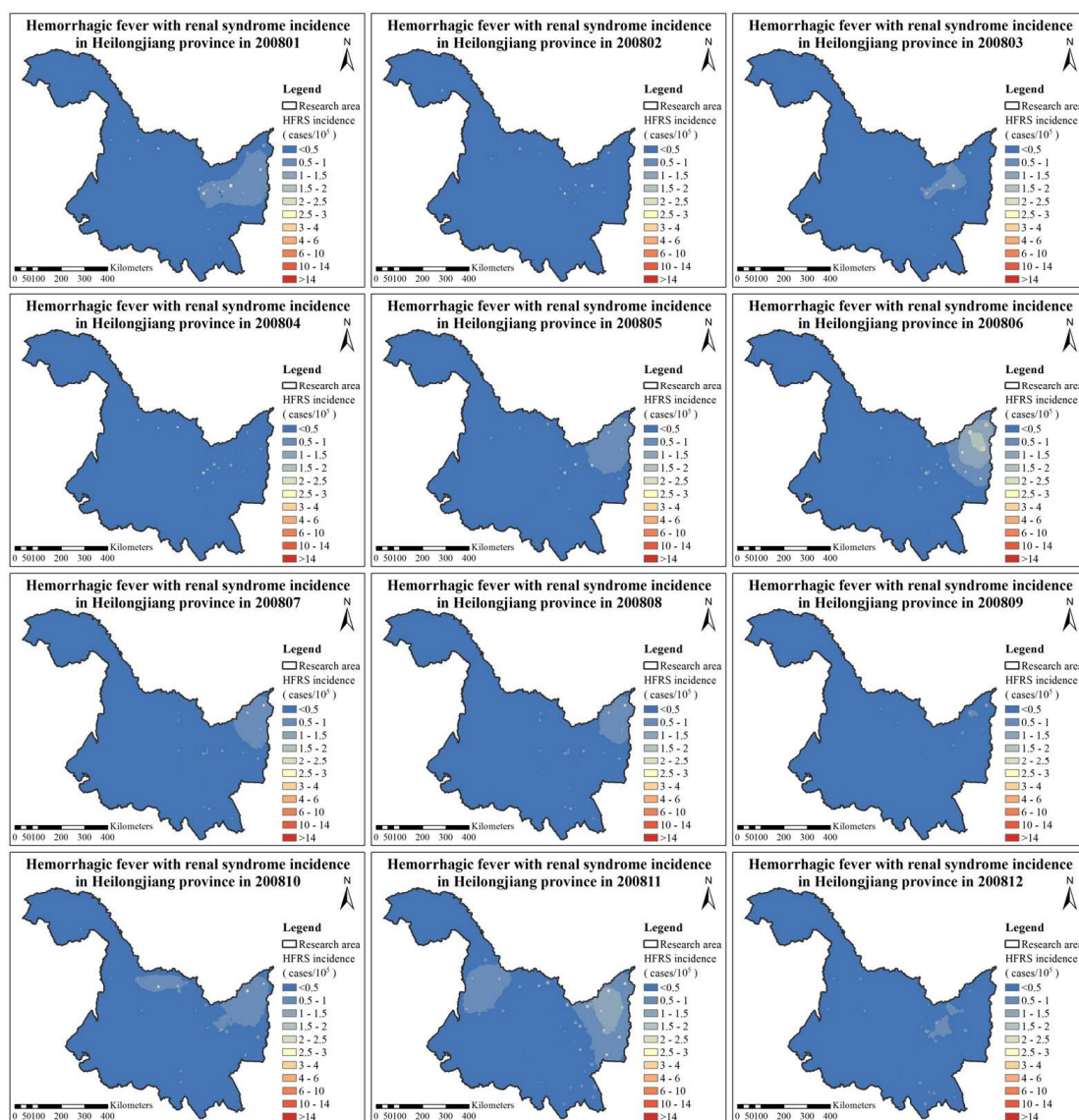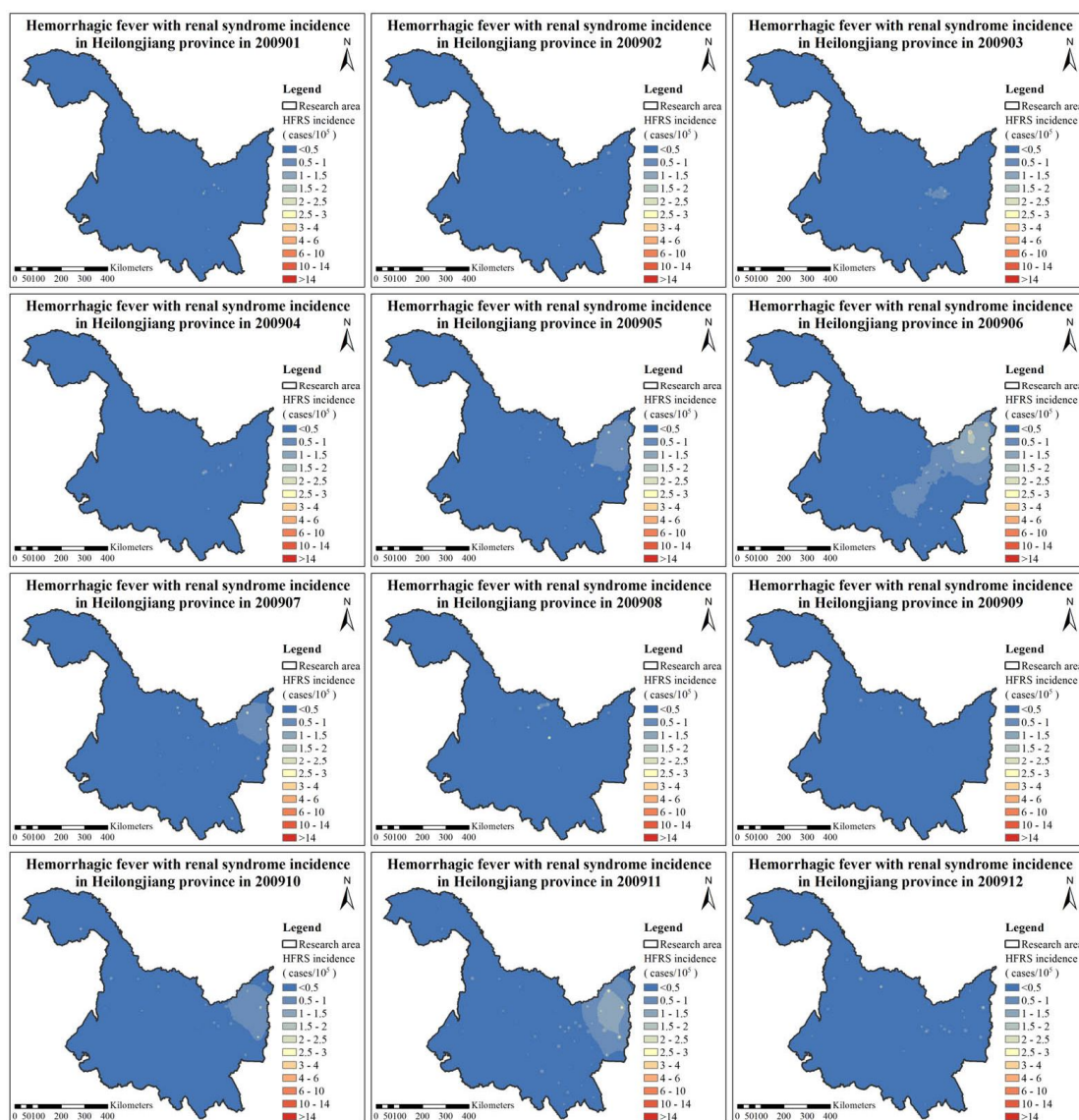33 Figure S4: HFRS incidence maps in 2006.

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Figure S5: HFRS incidence maps in 2007.

Figure S6: HFRS incidence maps in 2008.

Figure S7: HFRS incidence maps in 2009.

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45   Figure S8: HFRS incidence maps in 2010.
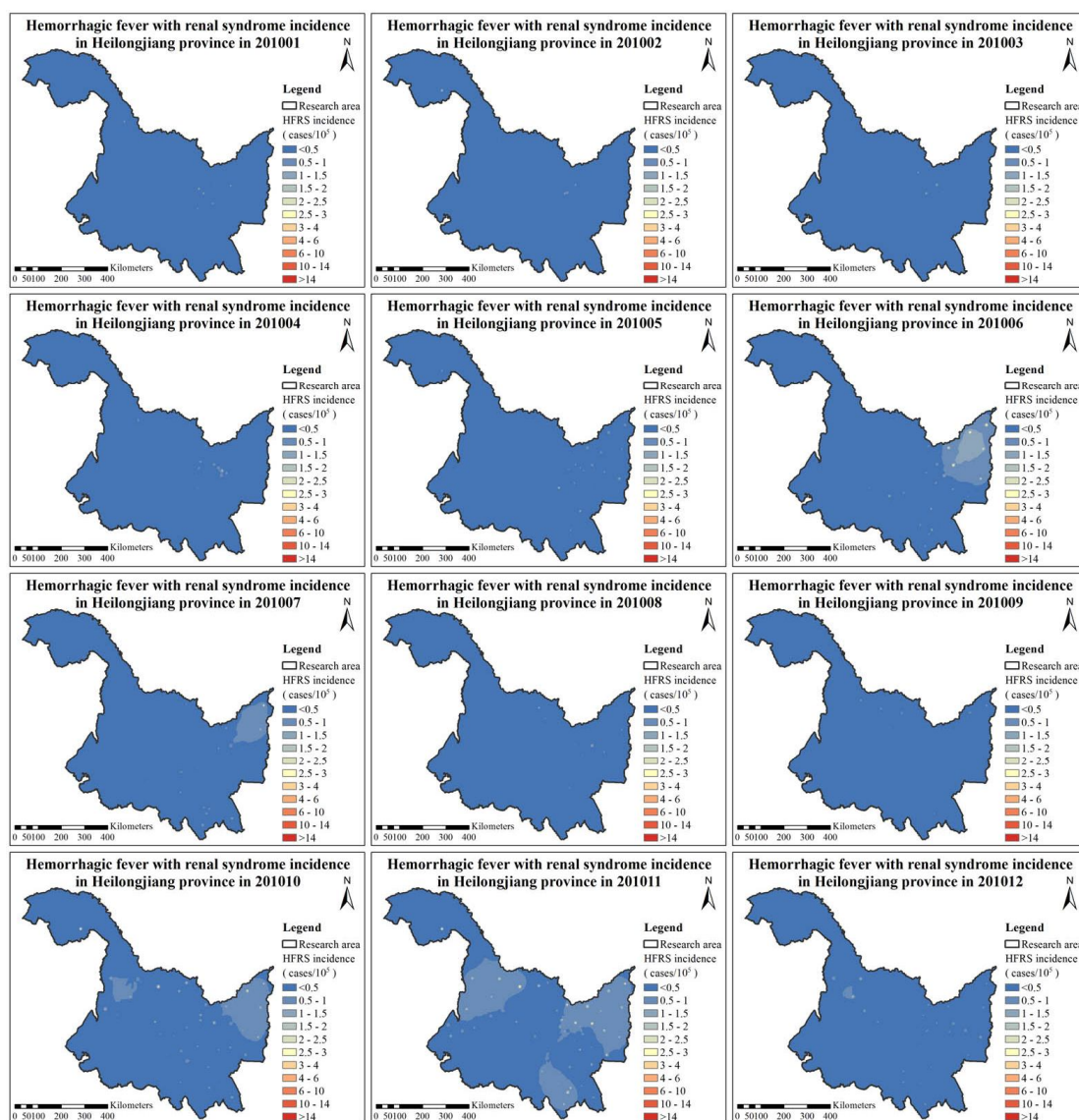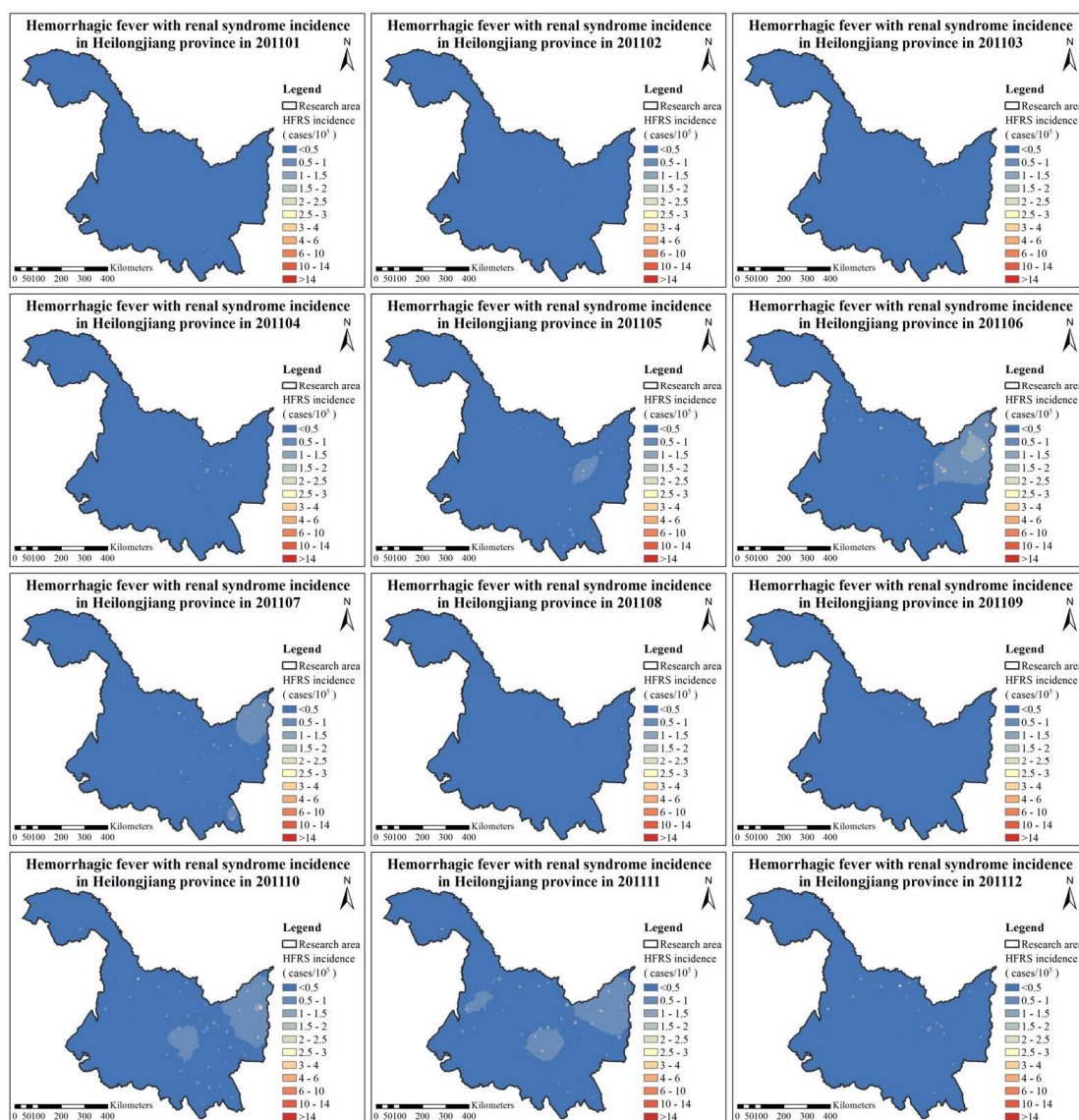
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48   Figure S9: HFRS incidence maps in 2011.
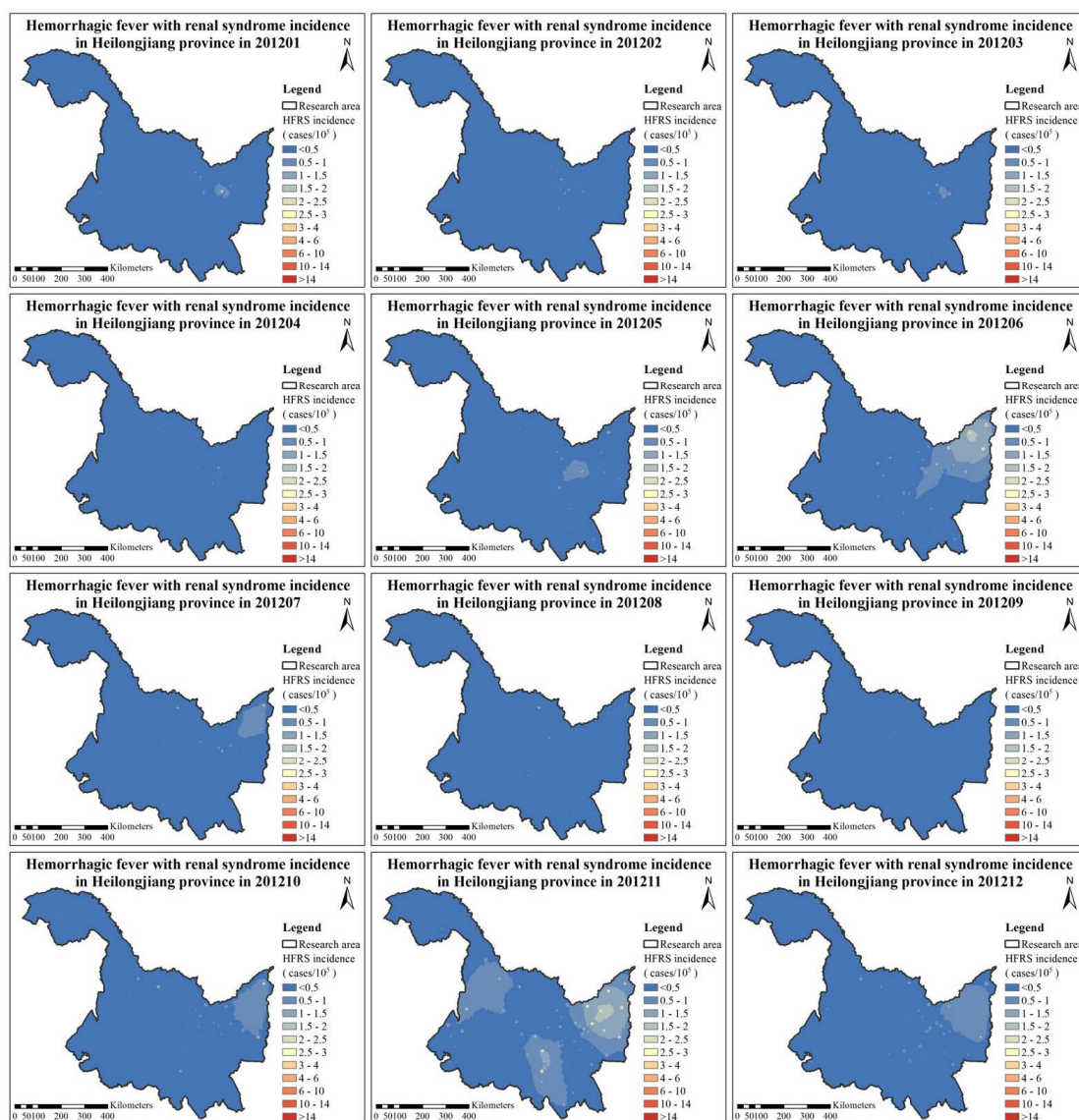
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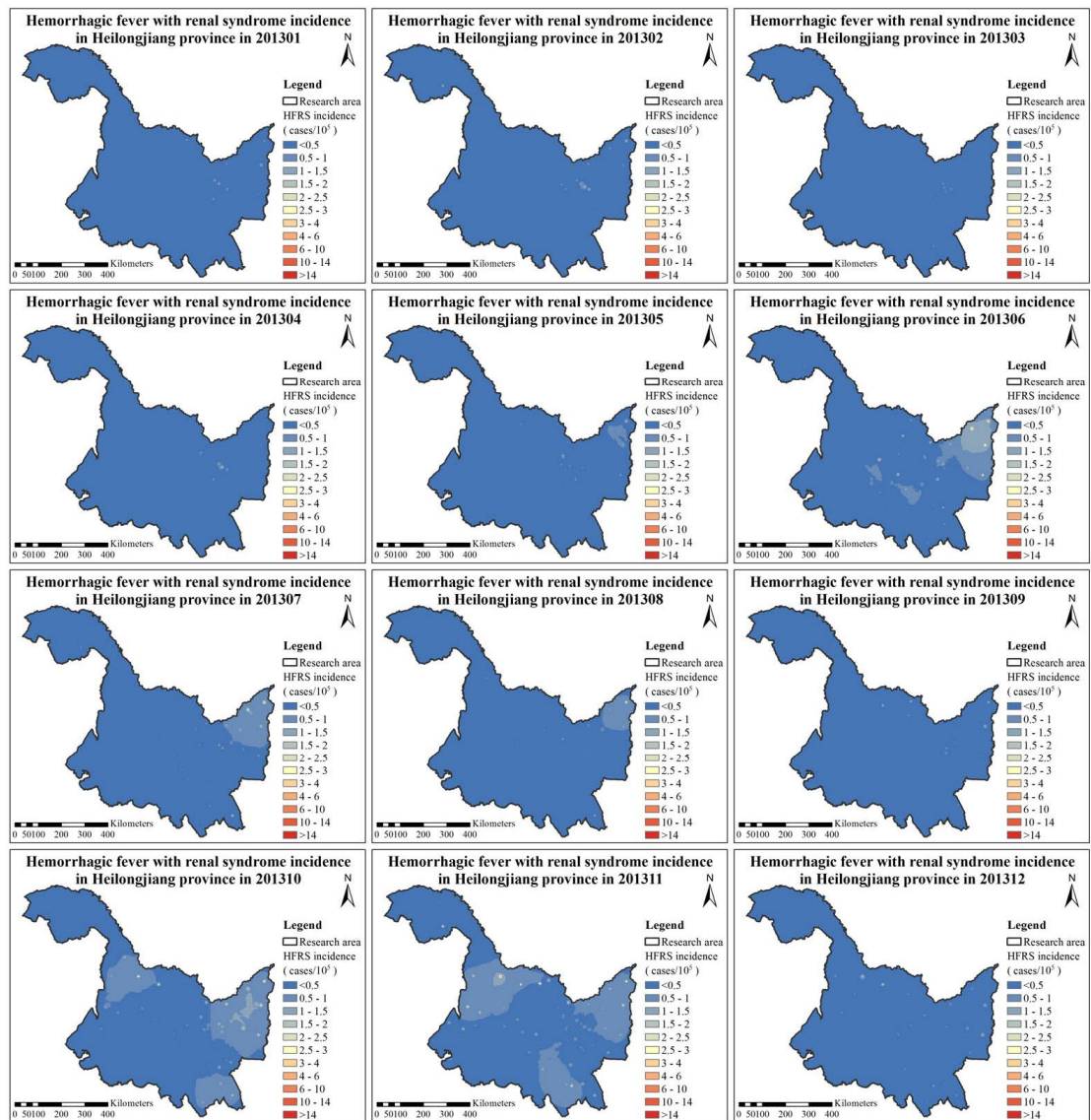
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Figure S10: HFRS incidence maps in 2012.

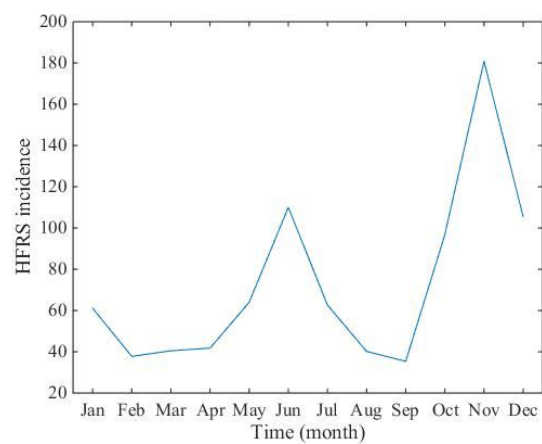Figure S11: HFRS incidence maps in 2013.

Figure S12: Averaged monthly HFRS incidence during 2005 and 2013.
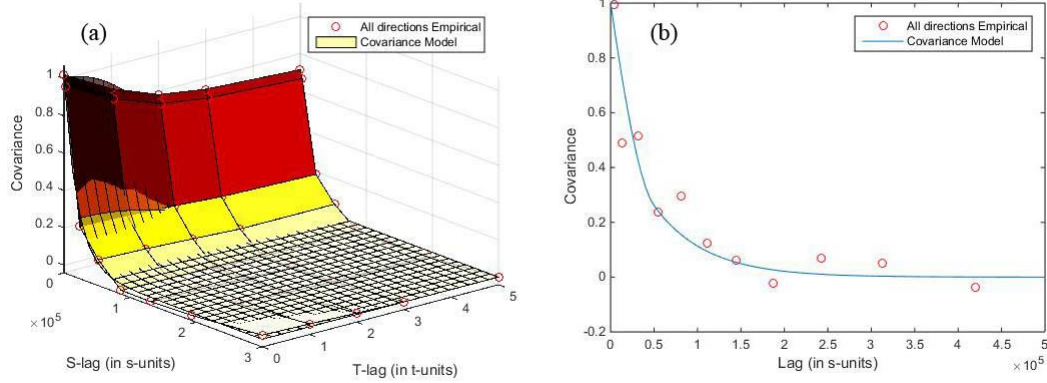
Figure S13: Plots of spatiotemporal empirical covariances and the fitted theoretical model in (*a*) the $R^2 \times T$ domain and (*b*) the R^2 domain with annual HRFS incidence.
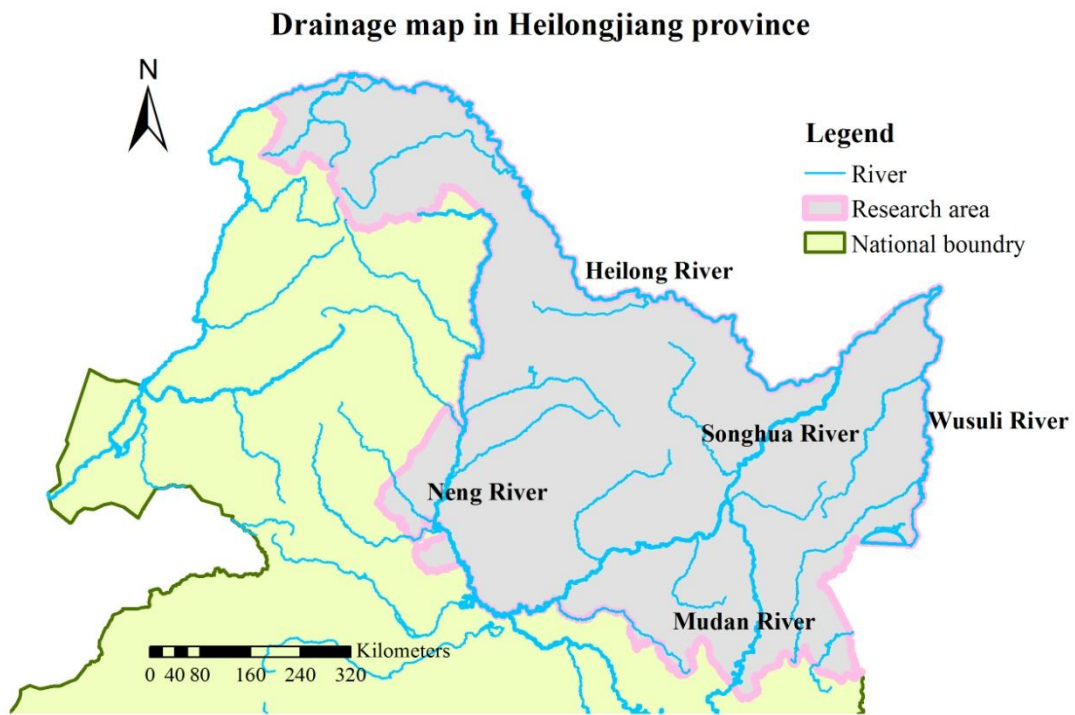

Figure S14: Drainage map in Heilongjiang province.

Distribution of land type in Heilongjiang province

N

Legend
☐ Research area
Land type
■ Water
■ Evergreen needleleaf forest
■ Deciduous needleleaf forest
■ Deciduous broadleaf forest
■ Mixed forests
■ Closed shrubland
■ Open shrublands
■ Woody savannas
■ Savannas
■ Grasslands
☐ Permanent wetlands
■ Croplands
■ Urban and built-up
■ Cropland/natural vegetation mosaic
■ Snow and ice
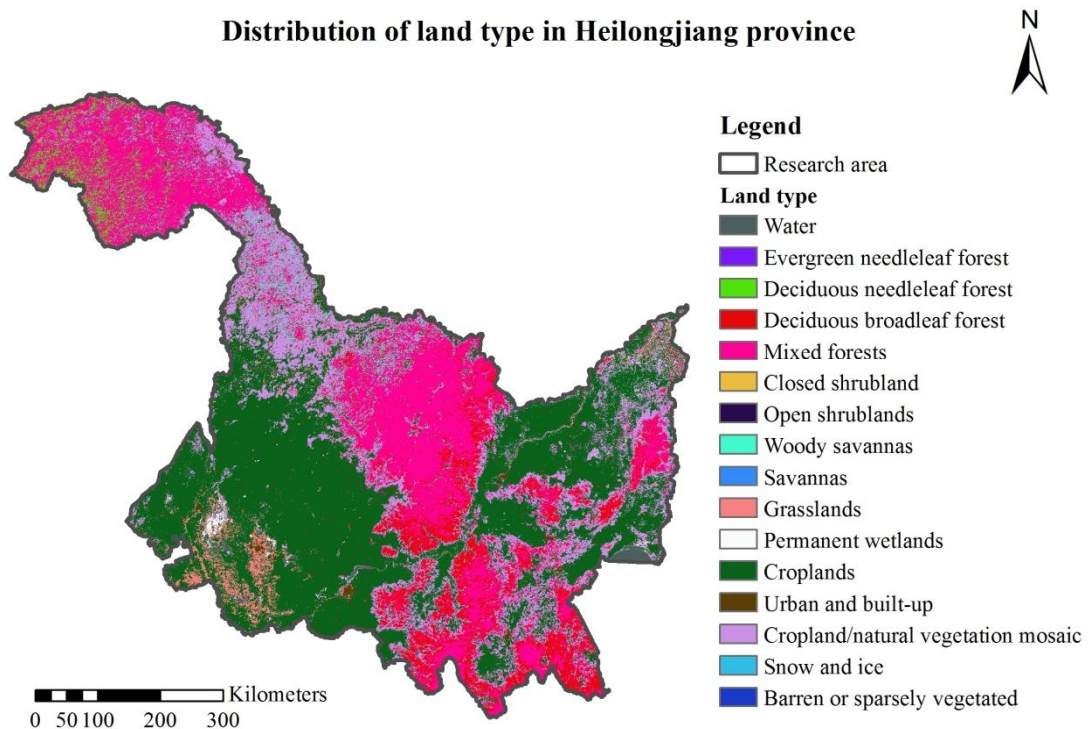■ Barren or sparsely vegetated

Kilometers
0 50 100   200   300

68

69   Figure S15: Distribution of land type in Heilongjiang province.

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