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Supplementary Figures

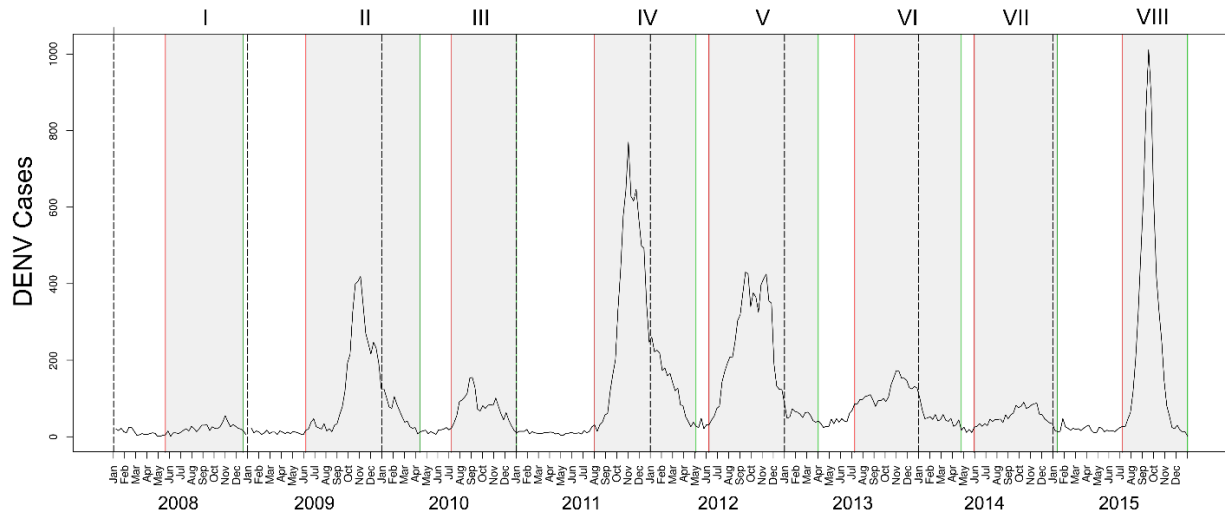
3 **Figure A. Weekly count of DENV symptomatic cases reported to the public health system**

4 **of Merida, Yucatan.** Gray boxes indicate epidemic periods (roman numbers on top), while

5 white boxes indicate non-epidemic periods. Red lines point to the beginning of an epidemic

6 period and green lines indicate the end of the same period. Dashed lines indicate the beginning

7 and end of each calendar year.



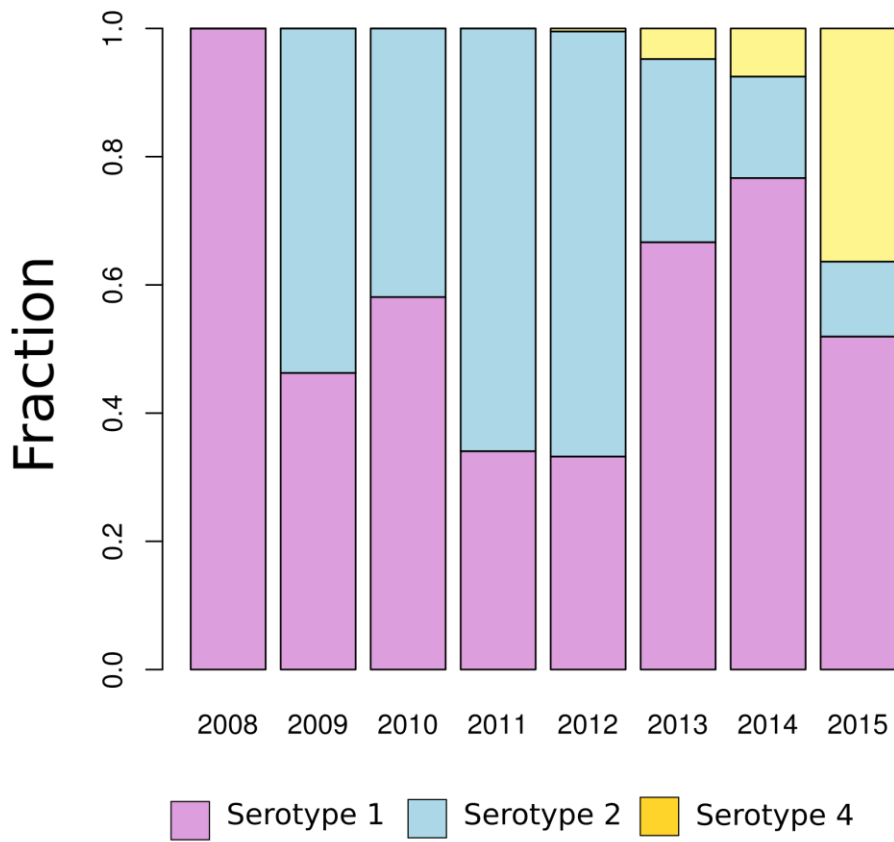
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11 **Figure B. Relative Frequency of DENV serotypes isolated in Merida, Yucatan, during**
12 **2008-2015.**

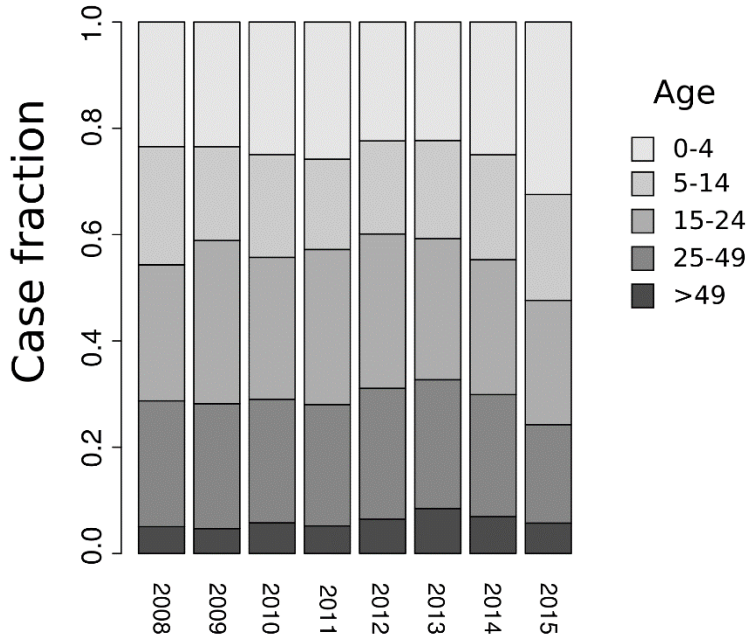
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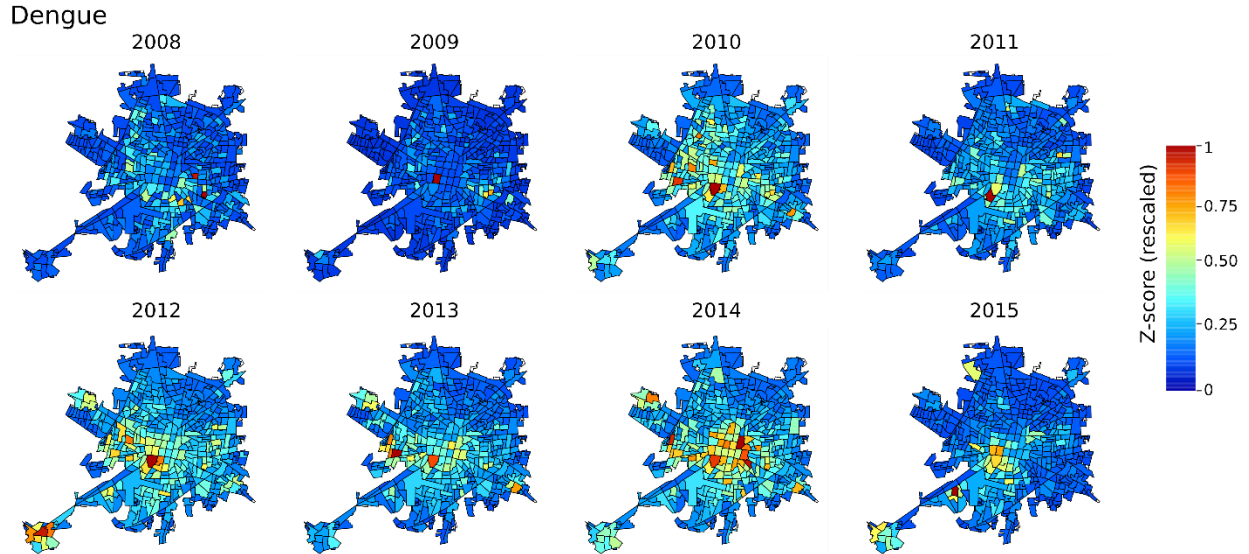
16 **Figure C: Age-structure of reported DENV cases in the city of Merida, Mexico, for 2008-**
17 **2015.**



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19 **Figure D. Standardized DENV case counts by year and census tract for Merida, 2008-2015.**

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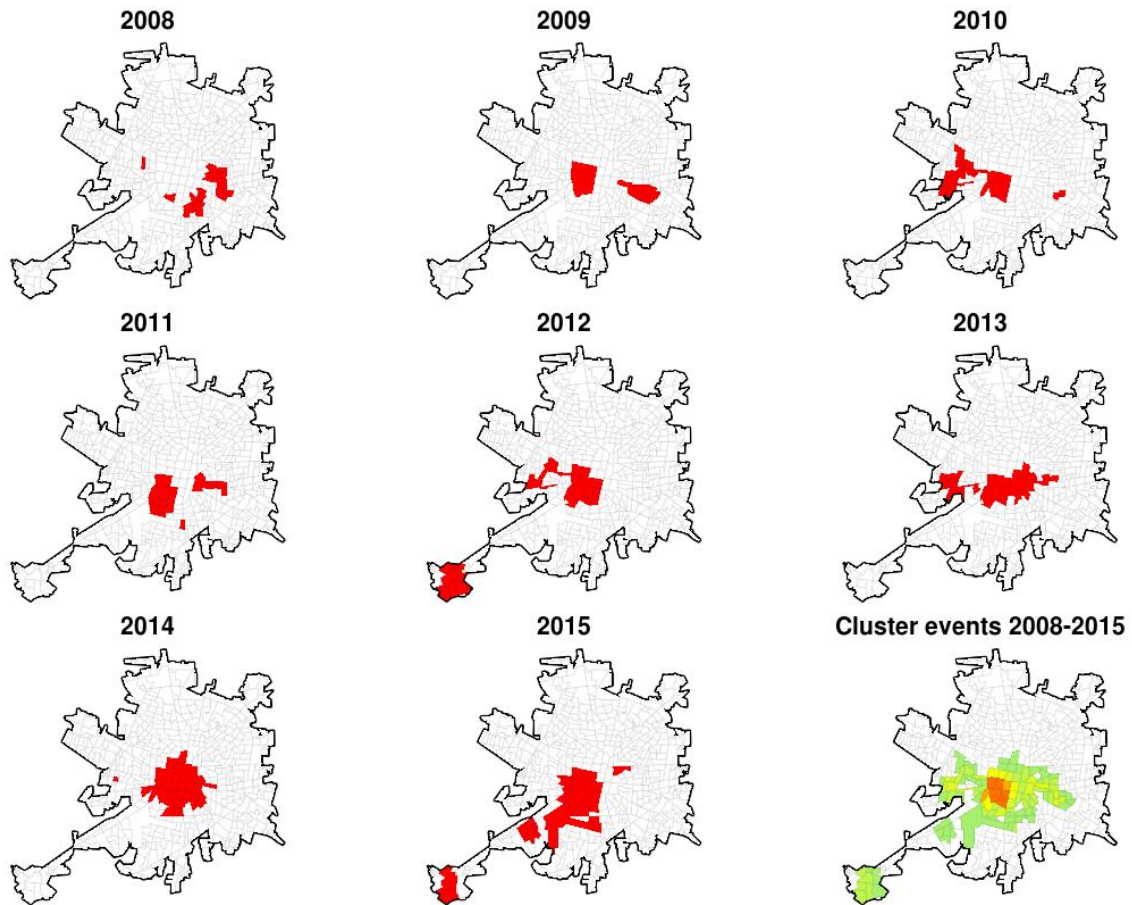
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24 **Figure E. Results from the Getis-Ord G^* statistic test identifying tracts with statistically**
25 **significant ($p < 0.05$) high standardized case counts for outbreak periods (red polygons).**
26 Map in lower right shows cumulative count of periods in which a tract was identified as a hot-
27 spot.

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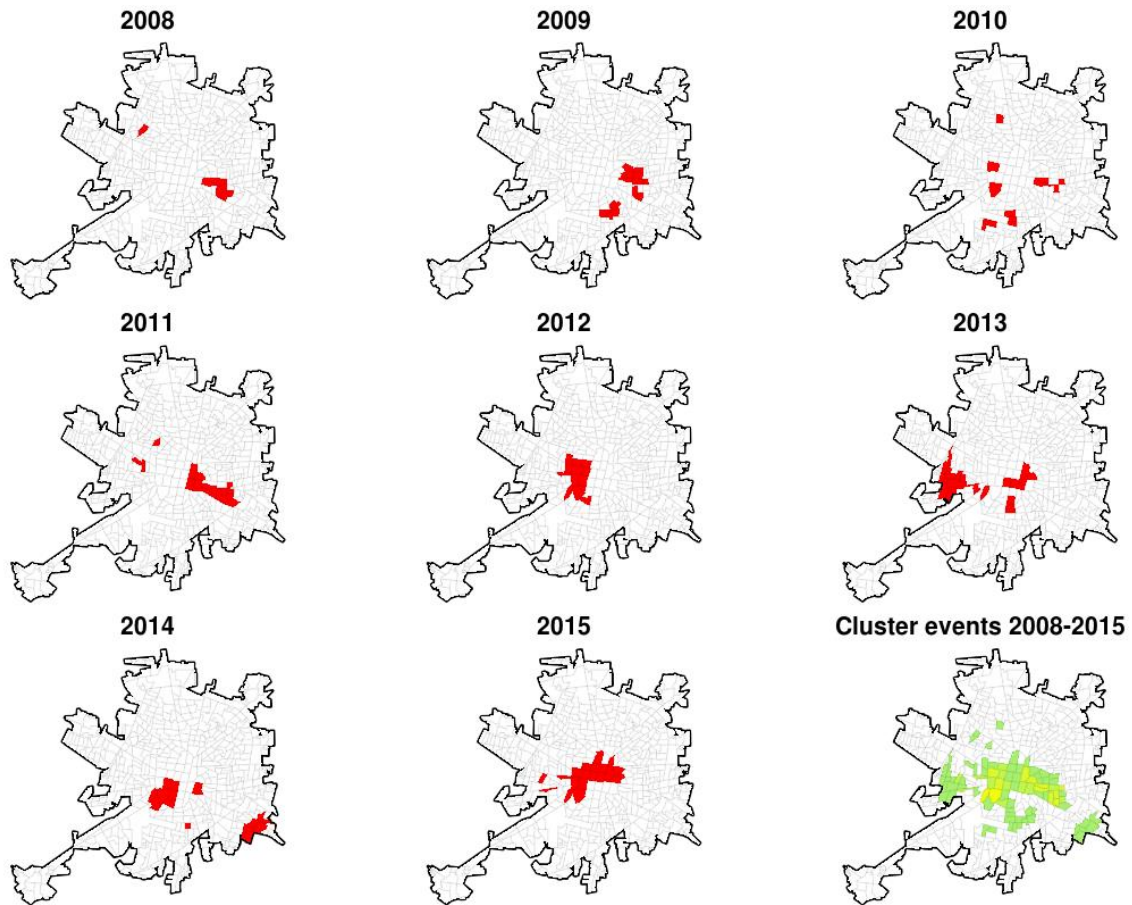


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31 **Figure F. Results from the Getis-Ord G^* statistic test identifying tracts with statistically**
32 **significant ($P < 0.05$) high standardized case counts for non-outbreak periods (red polygons).**
33 Map in lower right shows cumulative count of periods in which a tract was identified as a hot-
34 spot.

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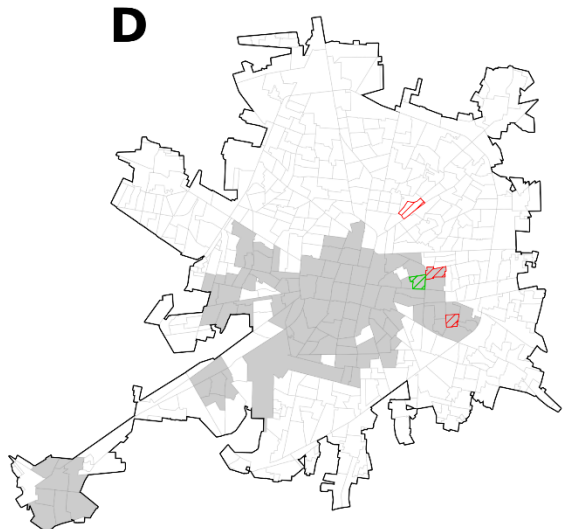
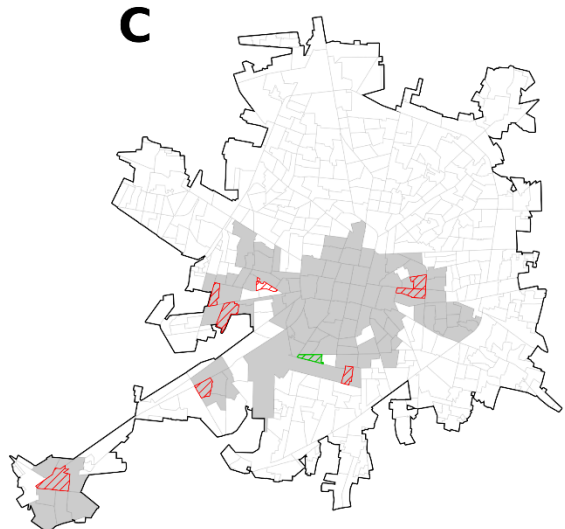
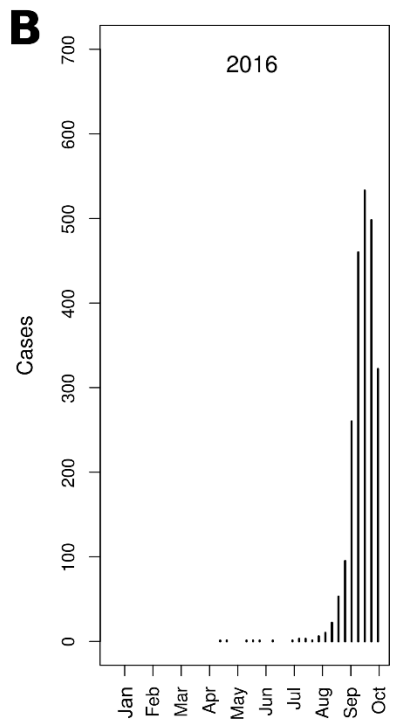
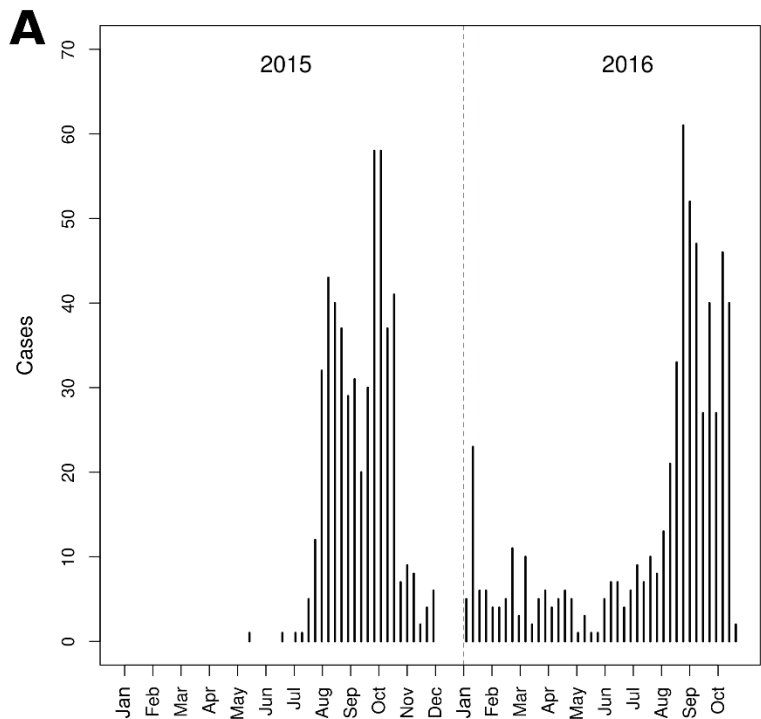
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40 **Figure G. Time series of weekly case counts for CHIKV (A) and ZIKV (B) in Merida,**
41 **Mexico.** Location of tracts where the first (green) and the first 10 (red) cases of CHIKV (C) and
42 ZIKV (D) were reported. Gray shade highlights the persistent 2008-2015 DENV clustering area
43 of the epidemic periods.

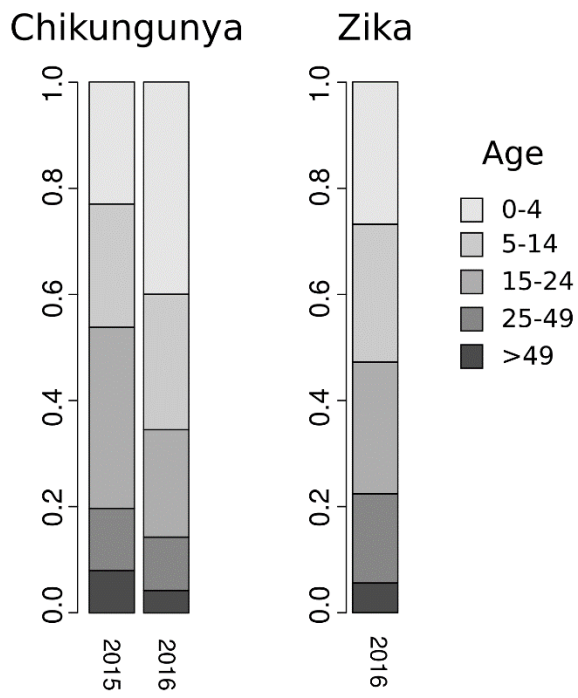
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46 **Figure H. Age-structure of reported CHIKV and ZIKV cases in the city of Merida, Mexico,**
47 **for 2015-2016.**

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