



## Climatic suitability index modelling for tiger mosquito (*Aedes albopictus*) 2008-2009, Jan. 2020

This raster dataset provides the modelling of the climate suitability index values (0-100%) for tiger mosquito (*Aedes albopictus*) for 100 European cities for the years 2008-2009, with a resolution of 100 m.

*Aedes Albopictus* has become a common occurrence in Southern Europe and transmits diseases such as Zika, dengue and chikungunya. The climatic suitability for tiger mosquito depends on factors such as sufficient amounts of rainfall, high summer temperatures and mild winters. Climate change is anticipated to further facilitate the spread of tiger mosquitoes across Europe by changing temperature and precipitation patterns, thereby increasing the suitable habitat.

In the framework of the Copernicus Climate Change Service (C3S) SIS European Health, VITO has provided to the Climate Data Store 100m resolution hourly temperature data for 100 European cities, based on simulations with the urban climate model UrbClim (De Ridder et al., 2015). From this dataset, this climate suitability dataset has been generated based on annual precipitation and the average temperature in January and during the summer period (months June, July and August) for the years 2008-2009, following the methodology by European Centre for Disease Prevention and Control (ECDC, 2009).

The 100 European cities for the urban simulations were selected based on user requirements within the health community.

### Simple

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### Point of contact

No information provided.

<b>Maintenance and update frequency</b>	Not planned
<b>GEMET - INSPIRE themes, version 1.0</b>	<ul style="list-style-type: none"><li>• <a href="#">Human health and safety</a></li></ul>
<b>Keywords</b>	
<b>Keywords</b>	
<b>GEMET</b>	<ul style="list-style-type: none"><li>• vector of human diseases</li><li>• climate</li><li>• climate change adaptation</li><li>• climate change impact</li><li>• city</li><li>• health</li><li>• urban environment, urban stress</li></ul>
<b>Continents, countries, sea regions of the world.</b>	<ul style="list-style-type: none"><li>• Slovenia</li><li>• Italy</li><li>• Austria</li><li>• Belgium</li><li>• Bosnia and Herzegovina</li></ul>

	<ul style="list-style-type: none"> <li>• Bulgaria</li> <li>• Croatia</li> <li>• Finland</li> <li>• Iceland</li> <li>• Lithuania</li> <li>• Norway</li> <li>• Serbia</li> <li>• Sweden</li> <li>• Germany</li> <li>• United Kingdom</li> <li>• Montenegro</li> <li>• Luxembourg</li> <li>• North Macedonia</li> <li>• Portugal</li> <li>• Albania</li> <li>• Czechia</li> <li>• Netherlands</li> <li>• Poland</li> <li>• Switzerland</li> <li>• Hungary</li> <li>• France</li> <li>• Slovakia</li> <li>• Greece</li> <li>• Ireland</li> <li>• Denmark</li> <li>• Estonia</li> <li>• Spain</li> <li>• Latvia</li> <li>• Romania</li> </ul>
<a href="#">Spatial scope</a>	<ul style="list-style-type: none"> <li>• <a href="#">European</a></li> </ul>
<a href="#">EEA topics</a>	<ul style="list-style-type: none"> <li>• Environmental health impacts</li> <li>• Climate adaptation</li> <li>• Climate mitigation</li> </ul>

## Resource constraints

No information provided.

<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">no limitations to public access</a>
<b>Use constraints</b>	Other restrictions
<b>Other constraints</b>	EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged ( <a href="http://www.eea.europa.eu/legal/copyright">http://www.eea.europa.eu/legal/copyright</a> ).

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Spatial representation type	Grid
Distance	100 m
Language of dataset	English
Topic category	<ul style="list-style-type: none"><li>• Environment</li><li>• Health</li><li>• Climatology, meteorology, atmosphere</li></ul>
Begin date	2008-01-01
End date	2009-12-31



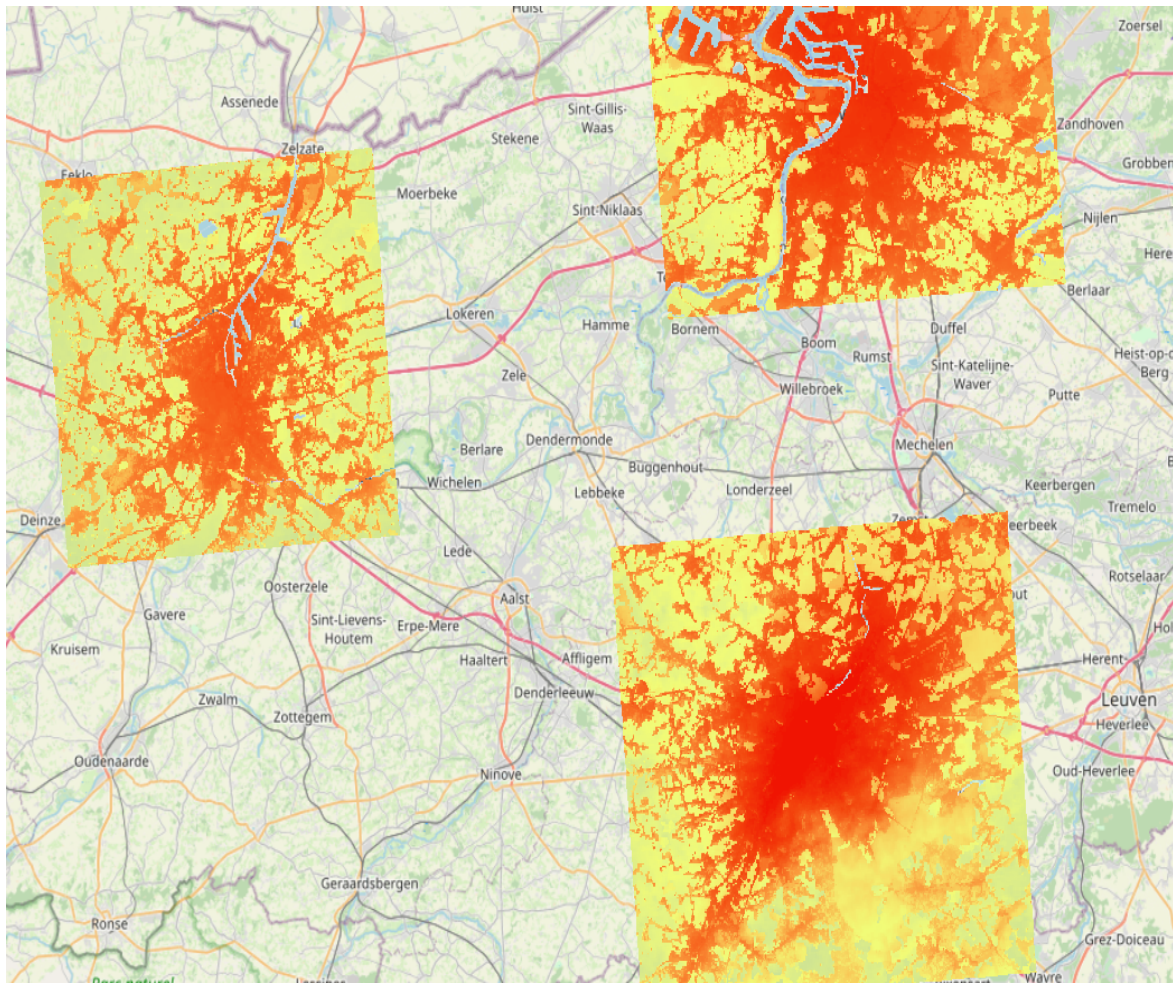
Copernicus Climate Change Service (2019): Web application: Climatic suitability of the Aedes albopictus mosquito in European cities from 2008 to 2017 derived from reanalysis ( [http://datastore.copernicus-climate.eu/c3s/published-forms/c3sprod/app-health-urban-aedes-albopictus-suitability-climatology/Web\\_Application\\_URBAN.3\\_v1\\_latest.pdf](http://datastore.copernicus-climate.eu/c3s/published-forms/c3sprod/app-health-urban-aedes-albopictus-suitability-climatology/Web_Application_URBAN.3_v1_latest.pdf)).

De Ridder, K, Lauwaet D. and Maiheu, B. (2015): UrbClim – A fast urban boundary layer climate model, Urban Climate, Vol. 12, pp. 21–48. <https://doi.org/10.1016/j.uclim.2015.01.001>.

## Metadata

<b>File identifier</b>	93070b8d-bb1a-4f4a-9b71-531676496125 <a href="#">XML</a>		
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## Overviews



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