Monitoring the changing health progress of climate change

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Climate change is the biggest global health threat of the 21st century
Tracking Progress on Health and Climate Change
~100 Collaborating Institutions Around the World
The five working groups of the Lancet Countdown
Regional Centres

1. LANCET COUNTDOWN: health and climate change in Australia
2. LANCET COUNTDOWN: health and climate change in South America
3. LANCET COUNTDOWN: health and climate change in Asia
4. LANCET COUNTDOWN: health and climate change in Europe
5. LANCET COUNTDOWN: health and climate change in Africa
6. LANCET COUNTDOWN: health and climate change in small island developing states
Regional Lancet Countdown Reports

The 2022 Europe report of the Lancet Countdown on health and climate change: towards a climate resilient future

The 2022 report of the MJA–Lancet Countdown on health and climate change: Australia unprepared and paying the price

The 2022 China report of the Lancet Countdown on health and climate change: leveraging climate actions for healthy ageing

The 1st 2022 South America Report of the Lancet Countdown, coming up soon!
The Lancet Countdown in Europe
Interactive indicators for Observatory

European Climate and Health Observatory
We provide easy access to a wide range of relevant publications, tools, websites and other resources related to climate change and human health.

Exposure to green space

This indicator tracks exposure to green space, measured by the population weighted Normalized Difference Vegetation Index (NDVI) at the country level. NDVI quantifies photosynthetically active vegetation by measuring the difference between near-infrared (which vegetation strongly reflects) and red light (which vegetation absorbs). NDVI values range from +1.0 to -2.5.

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<tr>
<th>Year</th>
<th>NDVI 2009</th>
<th>NDVI 2020</th>
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Climate Suitability for the Transmission of Dengue, Zika and Chikungunya in Europe
Basic reproduction number (R0) for Dengue, Zika and Chikungunya transmission.

The basic reproduction number of Dengue (Aedes albopictus), Dengue (Aedes aegypti), Zika and Chikungunya is calculated using a model to capture the influence of temperature and rainfall on vectorial capacity and vector abundance, and overlaying it with human population density data to estimate the R0 (the expected number of secondary infections resulting from one infected person).
Supporting the development of standardized national observatories

Case example: Italy’s national health and climate change observatory
- Co-developed with the National Institute for Health
- Using the Lancet Countdown indicators as a starting point and framework
- Complementing with national data whenever better one is available

Advantages:
- Comprehensive framework
- Peer-reviewed and globally recognized by health community
- Standardized reporting, comparable metrics
- Flexible to the incorporation of local data
Thank you

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