



Institute for Health Metrics and Evaluation

Data Release Information Sheet

Data Summary

Dataset name: Global Geo-Referenced Dengue Occurrence Database 1960-2015

Date of release: June 10, 2019

Summary:

IHME researchers participated in study that applied statistical mapping techniques to the most extensive database of dengue case locations to date to predict global environmental suitability for the virus as of 2015. The database was created with published literature, case reports, and informal online sources, with usable location information extracted from each source. The final occurrence database contains 13,604 unique occurrences, which represent a unique location where one or more dengue cases occurred within one year.

The database includes the following:

- A dengue occurrence point dataset, which contains precise point locations where dengue has occurrence in the past
- A dengue occurrence polygon dataset, which contains small administrative units within which dengue has occurred in the past
- Other disease background points, which contains point locations where other non-dengue infectious diseases have occurred in the past

Relevant publications and visualizations:

- Messina JP, Brady OJ, Golding N, Kraemer MUG, Wint GRW, Ray SE, et al. The current and future global distribution and population at risk of dengue. *Nature Microbiology*. 10 June 2019.

Contributing organizations:

- Institute for Health Metrics and Evaluation (IHME)
- University of Melbourne
- University of Oxford

Funders:

- Bill and Melinda Gates Foundation (BMGF)
- National Institutes of Health (NIH)
- Wellcome Trust

Suggested Citation:

University of Oxford, Institute for Health Metrics and Evaluation (IHME), University of Melbourne. Global Geo-Referenced Dengue Occurrence Database 1960-2015. Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2019.

File Inventory

File Name	Description	Version Date
IHME_DENGUE_1960_2015_POINTS_STANDARD_CHECKED_EC_2019M06D10.CSV	Precise point locations where dengue has occurrence in the past	June 10, 2019
IHME_DENGUE_1960_2015_POLY_STANDARD_CHECKED_EC_2019M06D10.CSV	Small administrative units in within which dengue has occurred in the past	June 10, 2019
IHME_DENGUE_1960_2015_DENGUE_BACKGROUND_FULL_2019M06D10.CSV	Point locations where other non-dengue infectious diseases have occurred in the past	June 10, 2019
IHME_DENGUE_1960_2015_INFO_SHEET_2019M06D10.PDF	Data Release Information Sheet	June 10, 2019

Data Files Information

Variable	Variable Label	Variable Definition
UniqueID	Unique ID	Unique ID for a specific location
Year	Year	Calendar year (Possible values: year in range 1960-2015)
Admin	Administrative Level	Administrative level (0 = country; 1 = first administrative level, e.g., state or province); 2 = first administrative level, e.g., county or district; -999 = NA)
Longitude	Longitude	Longitudinal coordinate

Variable	Variable Label	Variable Definition
Latitude	Latitude	Latitudinal coordinate
Area	Area	Area (in square km) of the administrative unit the point falls within or the administrative unit that the polygon belongs to

Additional Information

Terms and Conditions

<http://www.healthdata.org/about/terms-and-conditions>

Contact information

To request further information about this dataset, please contact IHME:

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These files may be updated periodically, so we appreciate hearing feedback or additional information about how these data are being used.