



## Data Release Information Sheet

### ***Data Summary***

Dataset name: Africa Onchocerciasis Environmental Suitability Geospatial Estimates

Date of release: TBD

Summary:

Estimates were produced for environmental suitability of onchocerciasis presence at the 5x5 km-level in endemic countries across Africa. These estimates were produced using a boosted regression tree (BRT) analysis trained on reported onchocerciasis presence data from endemicity mapping surveys, surveillance during elimination programs, and other sources. The model was trained using data from 1974–2015; final estimates were produced using covariate values for 2013.

This dataset includes the following:

- GeoTIFF raster files for pixel-level estimates of environmental suitability for onchocerciasis presence.
- Code files used to generate the estimates.

Relevant publications and visualizations:

- Cromwell E, Hay SI, LBD 2019 Neglected Tropical Diseases Collaborators. Predicting the environmental suitability for onchocerciasis in Africa as an aid to elimination planning. *Publication TBD.*

### ***Acknowledgements***

Contributing organizations:

- Institute for Health Metrics and Evaluations (IHME)

Funders:

- Bill & Melinda Gates Foundation (BMGF)
- Neglected Tropical Disease Modelling Consortium
- Medical Research Council (United Kingdom)
- Department for International Development (DFiD) (United Kingdom)

Suggested Citation:

Institute for Health Metrics and Evaluation (IHME). Onchocerciasis Environmental Suitability Estimates for Africa. Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020.

## Data Files Information

### File Inventory

File Name	Description	Version Date
IHME_AFRICA_ONCHO_ENV_SUIT_MEAN_Y2020M10D13.TIF	Mean Estimates	October 13, 2020
IHME_AFRICA_ONCHO_ENV_SUIT_LOWER_Y2020M10D13.TIF	Lower Estimates	October 13, 2020
IHME_AFRICA_ONCHO_ENV_SUIT_UPPER_Y2020M10D13.TIF	Upper Estimates	October 13, 2020
IHME_AFRICA_ONCHO_ENV_SUIT_DATA_INPUT_SOURCES_Y2020M10D13.XLSX	Data Input Sources	October 13, 2020
IHME_AFRICA_ONCHO_ENV_SUIT_INFO_SHEET_Y2020M10D13.PDF	Data Release Information Sheet	October 13, 2020

### GeoTIFF Raster Files for Pixel-level Estimates

Stored in files named <INDICATOR>\_<MEASURE>\_<STAT>\_<DATE>.TIF  
(Example: IHME\_AFRICA\_ONCHO\_ENV\_SUIT\_MEAN\_Y2020M10D13.TIF)

- **Indicators:** Onchocerciasis environmental suitability (scale from 0-1)
- **Measure:** Environmental suitability
- **Stat:** Mean, upper, or lower summary statistics from bootstrapped BRT model
- **Date:** Date on which the file was produced, indicating year, month and day

Note that lakes and areas with low population density (10 people per 1 km<sup>2</sup> and classified as barren/sparsely vegetated) are masked from summary estimates.

### Data Input Sources

This file contains relevant metadata about the input sources as suggested in the [Guidelines for Accurate and Transparent Health Estimates Reporting \(GATHER\)](#), a statement that promotes best practices in reporting health estimates.

[IHME\\_AFRICA\\_ONCHO\\_ENV\\_SUIT\\_DATA\\_INPUT\\_SOURCES\\_Y2020M10D13.CSV](#)

## ***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.