

# The PRIMAP-hist national historical emissions time series (1850-2014)

## Abstract

This dataset combines several published datasets to create a comprehensive set of greenhouse gas emission pathways for every country and Kyoto gas covering the years 1850 to 2014 and all UNFCCC (United Nations Framework Convention on Climate Change) member states as well as most non-UNFCCC territories. The data resolves the main IPCC (Intergovernmental Panel on Climate Change) 1996 categories. For CO<sub>2</sub> from energy and industry time series for subsectors are available.

## These datasets are supplementary material to

Gütschow, J.; Jeffery, L.; Gieseke, R.; Gebel, R.; Stevens, D.; Krapp, M.; Rocha, M. (2016): The PRIMAP-hist national historical emissions time series. (Submitted to ESSD)

## Recommended citation

Gütschow, J.; Jeffery, L.; Gieseke, R.; Gebel, R.; Stevens, D.; Krapp, M.; Rocha, M. (2016): The PRIMAP-hist national historical emissions time series (1850-2014). GFZ Data Services. <http://doi.org/10.5880/PIK.2016.003>

When using this dataset or one of its updates, please cite the description paper and DOI of the precise version of the dataset used.

Please consider also citing the relevant original sources when using this dataset. See the full citations in the References section further below.

## Sources

[UNFCCC National Communications and National Inventory Reports for developing countries](#): UNFCCC (2015)

[UNFCCC Biennial Update Reports](#): UNFCCC (2016)

[UNFCCC Common Reporting Format \(CRF\)](#): UNFCCC (2013), UNFCCC (2014)

[BP Statistical Review of World Energy](#): BP (2014)

[CDIAC](#):: Boden et al. (2015)

[EDGAR versions 4.2 and 4.2 FT2010](#):: JRC and PBL (2011), Olivier and Janssens-Maenhout (2012)

[FAOSTAT database](#):: Food and Agriculture Organization of the United Nations (2015b)

[Houghton land use CO<sub>2</sub>](#): Houghton (2008);

[RCP historical data](#): Meinshausen et al. (2011)

[EDGAR-HYDE 1.4](#): Van Aardenne et al. (2001), Olivier and Berdowski (2001),

[HYDE land cover data](#): Klein Goldewijk et al. (2010), Klein Goldewijk et al. (2011)

[SAGE Global Potential Vegetation Dataset](#): Ramankutty and Foley (1999)

[FAO Country Boundaries](#): Food and Agriculture Organization of the United Nations (2015a)

## Files included in the dataset

**PRIMAP-hist\_v1.0\_14-Apr-2016.csv**: With numerical extrapolation of all time series to 2014.

**PRIMAP-hist\_no\_extrapolation\_v1.0\_14-Apr-2016.csv**: Without numerical extrapolation of missing values.

## Notes

Emissions from international aviation and shipping are not included in the dataset.

### Data format description (columns):

#### “scenario”

Always “HISTORY”.

#### “country”

ISO 3166 three-letter country codes or custom, longer codes:

Table 1: Additional “country” codes.

Code	Country
EARTH	Aggregated emissions for all countries.
ANNEXI	Annex-I Parties to the Convention
NONANNEXI	Non-Annex-I Parties to the Convention
AOSIS	Alliance of Small Island States
BASIC	BASIC countries (Brazil, South Africa, India and China)
EU28	European Union
UMBRELLA	Umbrella Group

#### “category”

IPCC (Intergovernmental Panel on Climate Change) 1996 categories for emissions

Table 2: Category descriptions using IPCC 1996 terminology.

Category code	Description
CAT0	National Total
CATM0EL	National Total excluding LULUCF
CAT1	Total Energy
CAT1A	Fuel Combustion Activities
CAT1B1	Fugitive Emissions from Solid Fuels
CAT1B2	Fugitive Emissions from Oil and Gas
CAT2	Industrial Processes
CAT2A	Mineral Products
CAT2B	Chemical Industries
CAT2C	Metal Production
CAT2D	Other Production
CAT2G	Other
CAT3	Solvent and Other Product Use
CAT4	Agriculture
CAT5	Land Use, Land Use Change, and Forestry (LULUCF)
CAT6	Waste
CAT7	Other

## “entity”

Gas categories using global warming potentials from either Second Assessment Report (SAR) or Assessment Report 4 (AR4).

Table 3: Gas categories and used global warming potential

Code	Description
CH4	Methane
CO2	Carbon Dioxide
FGASES	Fluorinated Gases (SAR)
FGASESAR4	Fluorinated Gases (AR4)
HFCS	Hydrofluorocarbons (SAR)
HFCSAR4	Hydrofluorocarbons (AR4)
KYOTOGHG	Kyoto greenhouse gases (SAR)
KYOTOGHGAR4	Kyoto greenhouse gases (AR4)
N2O	Nitrous Oxide
PFCS	Perfluorocarbons (SAR)
PFCSAR4	Perfluorocarbons (AR4)
SF6	Sulfur Hexafluoride

## “unit”

Unit is either Gg or GgCO<sub>2</sub>eq (CO<sub>2</sub>-equivalent according to the used global warming potential).

## Remaining columns

Years from 1850-2014.

## References

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