The PRIMAP-hist Socio-Eco national historical GDP and population time series (1850-2017) (v2.1, July 2019)

1 Recommended citation

Gütschow, J. (2019): The PRIMAP-hist Socio-Eco national historical GDP and population time series v2.1, (1850 - 2017). GFZ Data Services. https://doi.org/10.5880/PIK.2019.019

2 Content

3 Use of the dataset and full description

Before using the dataset, please read this document.

Please notify us (johannes.guetschow@pik-potsdam.de) if you use the dataset so that we can keep track of how it is used and take that into consideration when updating and improving the dataset.

When using this dataset or one of its updates, please cite the DOI of the precise version of the dataset. Please consider also citing the relevant original sources when using the PRIMAP-hist Socio-Eco dataset. See the full citations in the References section further below.

A data description article is in preparation. Until it is published we refer to the description article of the PRIMAP-hist emissions time series for the methodology used.

Gütschow, J.; Jeffery, L.; Gieseke, R.; Gebel, R.; Stevens, D.; Krapp, M.; Rocha, M. (2016): The PRIMAP-hist national historical emissions time series, Earth Syst. Sci. Data, 8, 571-603, https://dx.doi.org/10.5194/essd-8-571-2016

4 Support

If you need support in using the dataset or have any other questions regarding the dataset, please contact johannes.guetschow@pik-potsdam.de.

5 Abstract

The PRIMAP-hist Socio-Eco dataset combines several published datasets to create a comprehensive set of population and Gross domestic product (GDP) pathways for every country covering the years 1850 to 2017, and all UNFCCC (United Nations Framework Convention on Climate Change) member states, as well as most non-UNFCCC territories. The data has no sector resolution.

6 Input sources

UN World Population Prospects 2019 (UN2019) website/data Population Division (2019)

World Bank World Development Indicators 2019 (July) (WDI2019B) website/data The World Bank (2019). We use the *NY.GDP.MKTP.PP.KD* variable for GDP.

Penn World Table version 9.1 (PWT91) website/data paper Feenstra et al. (2019), Feenstra et al. (2015). We use the *cgdpe* variable for GDP.

Maddison Project Database 2018 (MPD2018) website/data paper Bolt et al. (2018a), Bolt et al. (2018b). We use the *cgdppc* variable for GDP.

Anthropogenic land use estimates for the Holocene – HYDE 3.2 (HYDE32) data]paper Klein Goldewijk (2017) Klein Goldewijk et al. (2017)

Continuous national gross domestic product (GDP) time series for 195 countries: past observations (1850–2005) harmonized with future projections according to the Shared Socio-economic Pathways (2006–2100) (Geiger2018) data paper Geiger (2018) Geiger and Frieler (2017)

7 Files included in the dataset

- PMHSOCIOECO21_GDP_26-Jul-2019.csv: contains the GDP data for all countries
- PMHSOCIOECO21_Population_26-Jul-2019.csv: contains the population data for all countries

8 Notes

- We use the PWTs *cgdpe* variable for GDP where focus is on comparability between countries in a given year, and less on comparability between years.

9 Data format description (columns)

9.1 "scenario"

- always HISTORY

9.2 "country"

ISO 3166 three-letter country codes or custom codes for groups:

Table 1: Additional "country" codes.

Code	Region description
EARTH	Aggregated emissions for all countries.
ANNEXI	Annex I Parties to the Convention

Code	Region description
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
LDC	Least Developed Countries
UMBRELLA	Umbrella Group

9.3 "category"

Code	Description
ECO	Economical data (national totals)
DEMOGR	Demographical data (national totals)

9.4 "entity"

Code	Description
POP	Population data
GDPPPP	Gross domestic product in PPP adjusted values

9.5 "unit"

Unit is ThousandPers (1000 Persons) for population data and Million2011GKD (2011GKD: International dollars with 1 2011GKD = 1 2011USD) for GDP data.

9.6 Remaining columns

Years from 1850-2017.

10 Changelog

10.1 v2.1 (July 2019)

Initial published version.

References

Bolt, J., Inklaar, R., de Jong, H. and van Zanden, J. L.: Maddison Project Database, version 2018, [online] Available from: https://www.rug.nl/ggdc/historicaldevelopment/maddison/releases/maddison-project-database-2018, 2018a.

Bolt, J., Inklaar, R., de Jong, H. and van Zanden, J. L.: Rebasing "Maddison": New income comparisons and the shape of long-run economic development. [online] Available from: https://www.rug.nl/ggdc/html_publications/memorandum/gd174.pdf, 2018b.

Feenstra, R. C., Inklaar, R. and Timmer, M. P.: The Next Generation of the Penn World Table, American Economic Review, 105(10), 3150–3182, doi:10.1257/aer.20130954, 2015.

Feenstra, R. C., Inklaar, R. and Timmer, M. P.: Penn World Table version 9.1, doi:10.15141/S50T0R,

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Geiger, T.: Continuous national gross domestic product (GDP) time series for 195 countries: Past observations (18502005) harmonized with future projections according to the Shared Socio-economic Pathways (20062100), Earth System Science Data, 10(2), 847–856, doi:10.5194/essd-10-847-2018, 2018.

Geiger, T. and Frieler, K.: Continuous national Gross Domestic Product (GDP) time series for 195 countries: Past observations (1850-2005) harmonized with future projections according the Shared Socio-economic Pathways (2006-2100), doi:10.5880/pik.2017.003, 2017.

Klein Goldewijk, C.: Anthropogenic land-use estimates for the Holocene; HYDE 3.2, doi:10.17026/dans-25g-gez3, 2017.

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