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Version: 3.0

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### **C NetCDF library (v4.1.1)**

Available at: available at: <http://www.unidata.ucar.edu/software/netcdf> or at: [https://stash.pnnl.gov/projects/JGCRI/repos/moirai/browse/required\\_libs](https://stash.pnnl.gov/projects/JGCRI/repos/moirai/browse/required_libs)

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## **SAGE 175 crop harvested area and yield data, circa 2000, potential vegetation, physical cropland area, and land fraction**

Available at: <http://www.earthstat.org/data-download/>

Please cite these data when using Morai:

Monfreda, C., Ramankutty, N. & Foley, J. A. 2008. Farming the planet: 2. Geographic distribution of crop areas, yields, physiological types, and net primary production in the year 2000, Global Biogeochem. Cycles, 22, GB1022.

Ramankutty, N., Evan, A. T., Monfreda, C. & Foley, J. A. 2008. Farming the planet: 1. Geographic distribution of global agricultural lands in the year 2000. Global Biogeochem. Cycles, 22, GB1003.

Ramankutty, N. & Foley, J. A. 1999. Estimating historical changes in global land cover: Croplands from 1700 to 1992. Global Biogeochem. Cycles, 13, 997-1027.

Greenland has been added to the potential vegetation data, mostly as ice, but with some tundra where the HYDE data show land area.

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## **HYDE 3.2.000 baseline land use data**

Available at: [ftp://ftp.pbl.nl/hyde/hyde3.2/2017\\_beta\\_release/](ftp://ftp.pbl.nl/hyde/hyde3.2/2017_beta_release/)

Please cite these data when using Moirai: Klein-Goldewijk, K., Beusen, A., Doelman, J. & Stehfest, E. 2017. Anthropogenic land use estimates for the Holocene – HYDE 3.2. Earth Syst. Sci. Data, 9, 927-953.

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## **ISAM land cover data**

Available at: <http://climate.atmos.uiuc.edu/atuljain/availabledata.html>

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Available at: <http://waterfootprint.org/en/resources/waterstat/water-footprint-statistics/>

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## **VMAP0 country boundary data**

Available at: <http://gis-lab.info/qa/vmpa0-eng.html>

These are shapefiles that have been converted from the original data format originally published by the National Geospatial-Intelligence Agency. These data are in the public domain.

## **Bureau of Labor Statistics historical Consumer Price Index**

Available at: <https://www.bls.gov/cpi/data.htm>

All urban consumers, centered at 1982-1984 (June 2018). The original file is available as well as a reformatted input file for Moirai.

These data are in the public domain.

## **Food and Agriculture Organization of the United Nations crop statistics**

Available at: [www.fao.org/faostat/](http://www.fao.org/faostat/)

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## **Global Trade Analysis Project land rent data and original Agro-Ecological Zone boundaries**

Available at:

[https://www.gtap.agecon.purdue.edu/resources/res\\_display.asp?RecordID=1900](https://www.gtap.agecon.purdue.edu/resources/res_display.asp?RecordID=1900)

The land rent data have been extracted from the larger dataset and reformatted for input to Moirai.

Please cite these data when using Moirai: Lee, H.-L., Hertel, T. W., Rose, S., Avetisyan, M. An integrated global land use data base for CGE analysis of climate policy options. Chapter 4, pp. 72-88, in Hertel, T. W., S. Rose and R. Tol (eds.) (2009). Economic Analysis of Land Use in Global Climate Change Policy. Abingdon: Routledge.