

Global Land-use Model 2 (GLM2) Code Repository - for generating Land-Use Harmonization 2 (LUH2) Datasets

README File

This repository houses the Global Land-use Model 2 (GLM2) code used to produce the LUH2 v2h, LUH2 v2f, and LUH2 v2e datasets (Land-Use Harmonization 2) used for CMIP6 simulations.

The repository contains all code files used when running GLM2, along with a document providing sources and links to all inputs used as drivers of the code.

More information about the GLM2 code and LUH2 datasets can be found in the following locations:

- The LUH2 website: <https://luh.umd.edu>
- The CMIP6 code archive:
<https://doi.org/10.22033/ESGF/input4MIPs.10454>
Hurtt, George; Chini, Louise; Sahajpal, Ritvik; Frolking, Steve; Bodirsky, Benjamin Leon; Calvin, Kate; Doelman, Jonathan; Fisk, Justin; Fujimori, Shinichiro; Goldewijk, Kees Klein; Hasegawa, Tomoko; Havlik, Petr; Heinemann, Andreas; Humpenöder, Florian; Jungclaus, Johann; Kaplan, Jed; Krisztin, Tamás; Lawrence, David; Lawrence, Peter; Mertz, Ole; Pongratz, Julia; Popp, Alexander; Riahi, Keywan; Shevliakova, Elena; Stehfest, Elke; Thornton, Peter; van Vuuren, Detlef; Zhang, Xin (2019). Harmonization of Global Land Use Change and Management for the Period 850-2015. Version YYYYMMDD. Earth System Grid Federation.

<https://doi.org/10.22033/ESGF/input4MIPs.10468>
Hurtt, George; Chini, Louise; Sahajpal, Ritvik; Frolking, Steve; Bodirsky, Benjamin Leon; Calvin, Kate; Doelman, Jonathan; Fisk, Justin; Fujimori, Shinichiro; Goldewijk, Kees Klein; Hasegawa, Tomoko; Havlik, Petr; Heinemann, Andreas; Humpenöder, Florian; Jungclaus, Johann; Kaplan, Jed; Krisztin, Tamás; Lawrence, David; Lawrence, Peter; Mertz, Ole; Pongratz, Julia; Popp, Alexander; Riahi, Keywan; Shevliakova, Elena; Stehfest, Elke; Thornton, Peter; van Vuuren, Detlef; Zhang, Xin (2019). Harmonization of Global Land Use Change and Management for the Period 2015-2300. Version YYYYMMDD. Earth System Grid Federation.
- The LUH2 publication:
Hurtt, G. C., Chini, L., Sahajpal, R., Frolking, S., Bodirsky, B. L., Calvin, K., Doelman, J. C., Fisk, J., Fujimori, S., Goldewijk, K. K., Hasegawa, T., Havlik, P., Heinemann, A., Humpenöder, F., Jungclaus, J., Kaplan, J., Kennedy, J., Kristzin, T., Lawrence, D., Lawrence, P., Ma, L., Mertz, O., Pongratz, J., Popp, A., Poulter, B., Riahi, K., Shevliakova, E., Stehfest, E., Thornton, P., Tubiello, F. N., van Vuuren, D. P., and Zhang, X.: Harmonization of Global Land-Use Change and Management for the Period 850–2100 (LUH2) for CMIP6, *Geosci. Model Dev. Discuss.*, <https://doi.org/10.5194/gmd-2019-360>, in review, 2020.