

**Guidance notes:**

- 1 Please select one of the options in column C (where applicable) and enter further information in column E.
- 2 Where applicable, give additional information requested in column E, replacing the italicised text.
- 3 Do not enter information in the blue cells.

No.	Question	Options	Guidance notes	Response
<b>Description</b>				
<b>1.1 Author</b>				
1.1a	Intellectual Property Right holder		Provide name and address	
<b>1.2 Dataset</b>				
1.2a	Title		Provide a long (up to 120 characters) and short version (less than 32 characters) of the title.	<i>Landuse harmonization data (LUH)</i> <i>This data set was prepared for the fifth Assessment Report (AR5) of the Intergovernmental Panel on Climate Change (IPCC), where new advanced Earth System Models (ESM) address the combined effects of human activities (e.g. land use and fossil fuel emissions) on the carbon-climate system. The Land-use Harmonization project prepared a harmonized set of land-use scenarios that smoothly connects historical reconstructions of land-use based on HYDE data, with future projections based on the IAM implementations of the RCPs, in the format required by ESMS. The harmonization strategy estimates fractional land-use patterns and underlying land-use transitions annually for the time period 1500-2100 at 0.5° x 0.5° resolution while minimizing differences at the transition between the historical reconstruction ending conditions and IAM initial conditions, and working to preserve the future changes depicted by the IAMs at the grid level. These harmonized data products provide the first consistent set of land-use change and emission scenarios for studies of human impacts on the past and future global carbon-climate system. In addition to the main data set, four Representative Concentration Pathways (RCP) scenarios of the future (2005-2100) are provided by four Integrated Assessment Model (IAM) teams to be used as input to the ESMS for future carbon-climate projections.</i>
1.2b	Description		Provide 200-500 word description, highlighting the key distinguishing features of the dataset. This text will be used in the DDC entry.	
<b>Authority</b>				
<b>2.1 Use by the IPCC</b>				
2.1a	Has the dataset been used in an IPCC Assessment or Special Report, e.g., in a figure or table or discussed in text?	Not known	List report name(s), table/figure/page number(s)	
2.1b	Is dataset used in any other IPCC-related documents or materials?	Not known	List document name(s), table/figure/page number(s)	
<b>2.2 Documentation</b>				
2.2a	Is the dataset documented in detail in a peer-reviewed journal article or as a peer-reviewed dataset?	Yes	Provide full citation and list Thomson-Reuter impact factor (or other standard influence factor) for journal if available	<i>G. C. Hurtt, L. P. Chini, S. Froking, R. A. Betts, J. Feddema, G. Fischer, J. P. Fisk, K. Hibbard, R. A. Houghton, A. Janetos, C. D. Jones, G. Kindermann, T. Kinoshita, Kees Klein Goldewijk, K. Riahi, E. Shevliakova, S. Smith, E. Stehfest, A. Thomson, P. Thornton, D. P. van Vuuren, Y. P. Wang (2011) Harmonization of land-use scenarios for the period 1500-2100: 600 years of global gridded annual land-use transitions, wood harvest, and resulting secondary lands. Climatic Change 109:117-161 DOI 10.1007/s10584-011-0153-2</i>
2.2b	documented in detail in a peer-reviewed book chapter, report or technical document?	Not known	Provide full citation of peer review if known; list type of book, report, or document, e.g., if part of a series; provide evidence of credibility of authors or publisher (e.g., UN organization)	
2.2c	documented in detail in a non-peer reviewed document, web site, or other resource?	Yes	Provide citation of IR. Describe quality control or other review processes used (e.g., crowd sourcing); provide evidence of credibility of authors or publisher (e.g., UN organization)	<a href="http://luh.umd.edu/readme.shtml">http://luh.umd.edu/readme.shtml</a>
2.2d	significant discussion of the dataset in the scientific literature?	Not known	Provide citations to criticisms and responses where relevant.	
2.2e	Are the uncertainties associated with the data documented.	Not Known	Provide link(s) or reference(s) and indicate what sort of uncertainty information is provided?	
<b>2.3 Lineage</b>				
2.3a	Is the dataset produced by or under the direction of a national or international body or group?	Yes	List scientific body or group	<i>Department of Geographical Sciences University of Maryland College Park, MD 20742 and Institute for the Study of Earth, Oceans, and Space Morse Hall University of New Hampshire 8 College Road Durham, NH 03824-3525 603-862-0322</i>
<b>Significance Relative to the IPCC Community</b>				
<b>3.1 Interest in the data</b>				
3.1a	Has an IPCC Working Group or the TFI used or expressed an intention of using this data?	Not known	Indicate which group(s) and/or other body. Provide reference and quote relative passage.	
3.1b	Have DDC users expressed interest in these data?	Not known	Indicate numbers and/or types of users. Provide user metrics or examples of queries.	
3.1c	Are there strong reasons for considering the data relevant to the DDC user community?	Yes	Give reasons, backed by references. References from gray literature should have accompanying justification, as for IPCC reports.	
<b>3.2 Uniqueness</b>				
3.2	Are other datasets available with the same or overlapping variables?	No	Indicate other datasets and degree of overlap; provide links.	
<b>Stability of Data and Data Provider</b>				
<b>4.1 Curation</b>				

4.1a	Does the provider have a published data policy?	No	Provide link to citation	
4.1b	Does the provider have a succession plan for this dataset? Is there an explicit funding model for the dataset or data provider?	Not Known	List organization(s) with long-term responsibility for the dataset (e.g., government agency, library, archive); provide a link to the plan or other documentation of the agreement  Indicate type (e.g., subscription-based, government-supported, submitter fees) and give link.	
4.1c	Does the provider have a published data policy?	No	Provide link to citation	
<b>Quality Control</b>				
<b>5.1 Meta-data and quality control</b>				
5.1a	Does detailed meta-data exist for this data, in accordance with relevant national or international meta-data standards? Is there a stated quality assurance process or procedure for the dataset?	No	Indicate relevant standards (e.g. NASA's Directory Interchange Format) and provide a link to the metadata.  Indicate if relevant quality assurance standards are met (e.g., ISO9000) and give links.	
5.1b	Does detailed meta-data exist for this data, in accordance with relevant national or international meta-data standards? Is there a stated quality assurance process or procedure for the dataset?	No	Indicate relevant standards (e.g. NASA's Directory Interchange Format) and provide a link to the metadata.  Indicate if relevant quality assurance standards are met (e.g., ISO9000) and give links.	
5.1c	Is there a regular validation or calibration process or procedure for the data?	Not Known	Indicate frequency and/or most recent date and give links	
5.1d	Is technical/usage guidance available?	Yes	Give links	<a href="http://uh.umd.edu/readme.shtml">http://uh.umd.edu/readme.shtml</a>
<b>5.2 Data updates and version control</b>				
5.2a	Is the data subject to updates? Is there a clear version control process and tracking of data provenance?	Not Known	List frequency  Describe version control and data provenance procedures	
5.2b	Is the data subject to updates? Is there a clear version control process and tracking of data provenance?	No	List frequency  Describe version control and data provenance procedures	
5.2c	Are previous versions of the dataset accessible?	No	List previous versions	
<b>Accessibility</b>				
<b>6.1 Access requirements</b>				
6.1a	Are the data available on-line for download?	All	Give links	<a href="http://uh.umd.edu/~luh_data/">http://uh.umd.edu/~luh_data/</a>
6.1b	Are data made available in one or more standard (preferably open) formats? Are there restrictions (beyond user registration and acceptance of terms of use) on data use, re-dissemination, or reuse?	Yes	List the formats available (at least one standard format is required);  If applicable, specify the type of restrictions and give relevant links	ASCII
6.1c	Are data made available in one or more standard (preferably open) formats? Are there restrictions (beyond user registration and acceptance of terms of use) on data use, re-dissemination, or reuse?	Not Known	List the formats available (at least one standard format is required);  If applicable, specify the type of restrictions and give relevant links	
6.1d	Is the data available for free or for a charge?	Free	if applicable, give link to price structure	
<b>6.2 Additional information</b>				
6.2a	Is user registration required or requested? Is attribution required or requested?	Neither	Give relevant links;	
6.2b	Is user registration required or requested? Is attribution required or requested?	Not Known	Give relevant links;	
6.2c	Are versions of the data available through open interfaces (e.g., OGC Web Services, REST, SOAP)?	Not Known	List interfaces and give links for specifications	
6.2d	Are levels of service (e.g., bandwidth, up time) available? Is user support available (e.g., help desk, frequently asked questions)?	Not Known	Give links, e.g., to up time metrics  List user support services and links	<a href="mailto:Ichini@umd.edu">Ichini@umd.edu</a>
6.2e	Are levels of service (e.g., bandwidth, up time) available? Is user support available (e.g., help desk, frequently asked questions)?	Yes	Give links, e.g., to up time metrics  List user support services and links	<a href="mailto:Ichini@umd.edu">Ichini@umd.edu</a>
6.2f	Is documentation available in English? Is documentation available in other languages?	Yes	Give links	<a href="http://uh.umd.edu/">http://uh.umd.edu/</a>
6.2g	Is documentation available in English? Is documentation available in other languages?	No	List languages (with links)	
6.2h	What is the spatial domain of the dataset?		Specify bounding latitudes and longitudes	
<b>Suggested improvements to this questionnaire</b>				
Number	Section/row			
1	Many	Replace option list with selection box, where applicable.		