

Data Policy

Trends in net land – atmosphere carbon exchange over the period 1980-2010 (Trendy)

Following the studies of Le Quéré et al., 2009¹ and Sitch et al., 2008², a consortium of Dynamic Global Vegetation Model (DGVM) groups set up a project to investigate further the spatial trends in Net Biome Production (NBP) and agreed to perform a factorial set of DGVM simulations over the historical period, 1901 - 2010.

Trendy Data Policy

The North American Carbon Program³ data policy is used as a template for Trendy.

1. Trendy Data

The term “Trendy Data” means all DGVM simulation output from the set of factorial 20th Century simulations.

2. Sharing Data

Our main objective is to make all Trendy Data freely available to the wider scientific community once the main study has been published in a peer-review article. In the meantime, the Trendy Data must be considered **provisional**, and subject to change. Trendy data will be made available in preliminary form to Trendy investigators, and associates (on a case-by-case basis) to enable quality assurance through preliminary analysis and intercomparison with other data sets. Corrections and refinements to data products will be made as the analysis proceeds. Revisions will be noted, and investigators and the Trendy data system will maintain version control.

3. Credit to Modelling Groups

When data are used by others in publications during the course of Trendy, scientists from each DGVM group, will be credited appropriately, either by co-authorship, citation, or acknowledgement. For data that have not been published, the individual modeling teams must be informed of analysis and publication plans well in advance of submission of a paper, given an opportunity to read the manuscript, and, if appropriate, be offered co-authorship. In cases where unpublished data from investigators are a minor contribution to a paper, the data are to be referenced by a citation or acknowledgement. Users of the data must state the primary source of the data as well as the version number. Under no circumstances should results from Trendy Data be published without the prior knowledge and consent of the individual DGVM modeling groups (see list below).

4. Acknowledging Trendy

Trendy investigators will include an acknowledgement in each publication or presentation arising from participation in Trendy. The wording shall be similar to the following: “This study was part of the Global Carbon Project.” Upon publication of

results, investigators should send the Trendy coordinators an electronic copy of the publication.

5. Resolving conflicts over data and the data policy.

Conflicts over the interpretation of this Data Policy, or its implementation, will be resolved at the lowest level possible within the Trendy organization. Direct resolution of issues between investigators is preferred.

6. Contact Details

Trendy is co-ordinated by: **Stephen Sitch** (S.A.Sitch@exeter.ac.uk) and **Pierre Friedlingstein** (P.Friedlingstein@exeter.ac.uk). If you need further clarification of the data policy, please contact one of the above as a first point of reference.

Participating DGVM groups and contact details:

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References

¹ Corinne Le Quéré, Michael R. Raupach, Josep G. Canadell, Gregg Marland, Laurent Bopp, Philippe Ciais, Thomas J. Conway, Scott C. Doney, Richard A. Feely, Pru Foster, Pierre Friedlingstein, Kevin Gurney, Richard A. Houghton, Joanna I. House, Chris Huntingford, Peter E. Levy, Mark R. Lomas, Joseph Majkut, Nicolas Metzler, Jean P. Ometto, Glen P. Peters, I. Colin Prentice, James T. Randerson, Steven W. Running, Jorge L. Sarmiento, Ute Schuster, Stephen Sitch, Taro Takahashi, Nicolas Viovy, Guido R. van der Werf and F. Ian Woodward. (2009) Trends in the sources and sinks of carbon dioxide. *Nature Geoscience*, Vol 2, December 2009, doi: 10.1038/ngeo689 www.nature.com/naturegeoscience

² Sitch, S., Huntingford, C., Gedney, N., Levy, P.E., Lomas, M., Piao, S., Betts, R., Ciais, P., Cox, P.M., Friedlingstein, P., Jones, C.D., Prentice, I.C. and Woodward, F.I. (2008) Evaluation of the terrestrial carbon cycle, future plant geography and climate-carbon cycle feedbacks using 5 Dynamic Global Vegetation Models (DGVMs). *Global Change Biology*, doi: 10.1111/j.1365-2486.2008.01626.x. Published online: 9-Jun-2008 <http://www3.interscience.wiley.com/journal/120124829/abstract>

³ <http://www.nacarbon.org/nacp/documents.html#data>