

# Distributed Biosphere-Hydrological (DBH) Model System User Agreement

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The Distributed Biosphere-Hydrological (DBH) Model System is developed by Dr. Qihong Tang, Taikan Oki and Shinjiro Kanae at University of Tokyo. We request all users of this model system make proper reference to the publication as well as an acknowledgment that the code was received from the University of Tokyo:

- Tang, Q., 2006. A Distributed Biosphere-Hydrological Model for Continental Scale River Basins. The University of Tokyo, Tokyo, Japan, *Ph.D. thesis*.

The *Ph.D. thesis* is available at:

<http://hydro.iis.u-tokyo.ac.jp/DBHdownload/Ref/37192.pdf>.

Other important papers relating to the DBH Model System are listed below:

- Tang, Q., Oki, T., Kanae, S., Hu, H., 2008. Hydrological Cycles Change in the Yellow River Basin During the Last Half of the 20th Century., *J. Climate*, 21(8), 1790-1806. DOI: 10.1175/2007JCLI1854.1.
- Tang, Q., Oki, T., Kanae, S., Hu, H., 2007. The influence of precipitation variability and partial irrigation within grid cells on a hydrological simulation. *J. Hydromet.*, 8(3), 499-512. DOI: 10.1175/JHM589.1.
- Tang, Q., Oki, T., 2007. Daily NDVI relationship to cloud cover. *J. Appl. Meteorol.*, 46(3), 377-387. DOI: 10.1175/JAM2468.1.

- Tang, Q., Oki, T., Kanae, S., Hu, H., 2007. A spatial analysis of hydro-climatic and vegetation condition trends in the Yellow River Basin. *Hydrol. Process.*, 22, 451-458. DOI: 10.1002/hyp.6624.
- Tang, Q., Oki, T., Hu, H., 2006. A distributed biosphere hydrological model (DBHM) for large river basin. *Ann. J. Hydraul. Eng. JSCE* 50, 37-42.

The general solar radiation code is developed by Dr. Kun Yang and Toshio Koike at the Department of Civil Engineering, University of Tokyo. We request all users of this model make proper reference to the paper:

- Yang, K., and T. Koike (2005), A general model to estimate hourly and daily solar radiation for hydrological studies, *Water Resour. Res.*, 41, W10403, doi:10.1029/2005WR003976.

The SiB2 model should refer to the paper:

- Sellers, P. J., Randall, D. A., Collatz, G. J., Berry, J. A., Field, C. B., Dazlich, D. A., Zhang, C., Collelo, G. D., Bounoua, L., 1996. A revised land surface parameterization (SiB2) for atmospheric GCMs - Part I: model formulation. *J. Climate* 9, 676-705.

No portion of this work may be used by any commercial entity, or for any commercial purpose, without the prior, written permission of the model developer. Nonprofit and noncommercial use is permitted. Development and maintenance of the current version of the DBH model system is conducted by Qihong Tang. The model is always under development with applications which address new problems and conditions. For information about the current release of the DBH model or to get the source code for beta versions of releases under development, please contact the model maker.

The model users are encouraged to join the *DBH\_USERS* email list: [https://mailman1.u.washington.edu/mailman/listinfo/dbh\\_users](https://mailman1.u.washington.edu/mailman/listinfo/dbh_users). Membership in this list is limited to those who are actively working with the DBH model system. If you have suggestions, possible bugs or problems running the model, post them on this site and hopefully one of the other users will be able to answer your questions or address your concerns.

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