YONGKANG XUE

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EDUCATION:

(1987) Ph.D. - (Meteorology) University of Utah, U.S.A.
Dissertation: *Investigation of biogeophysical feedbacks on African climate using a two-dimensional model*. (September 1983 to 1987)
(1981) M.Sc. - (Atmospheric Physics) The Graduate School of the University of Science and Technology of China, Chinese Academy of Sciences, China.
Thesis: *Application of Monte Carlo methods to remotely sensed humidity profiles by atmospheric microwave emission.* (October 1978- November 1981)

PROFESSIONAL EXPERIENCE:

(2024-present) Distinguished Research Professor, Department of Geography, Department of Atmospheric Sciences, University of California, Los Angeles.
(2023-2024) Distinguished Professor, Department of Geography, Department of Atmospheric Sciences, University of California, Los Angeles.
(2019-pres) Affiliate Member of the UCLA Natural Hazards Risk and Resiliency Research Center
(2011-pres) Affiliate Member of the UCLA Institute of the Environment and Sustainability
(2006-pres) Affiliate Member of Joint Institute UCLA Regional Earth System Science and Engineering (JIFRESSE)
(2003-pres) Professor, Department of Geography, UCLA
(2003-pres) Professor, Department of Atmospheric Sciences, UCLA
(2000-2003) Associate Professor, Department of Atmospheric Sciences, UCLA
(1999-2003) Associate Professor, Department of Geography, UCLA
(1997-2000) Associate Research Scientist, Department of Geography, University of Maryland.
(1993-1997) Research Scientist, Center for Ocean-Land-Atmosphere Studies.
(1991-1993) Assistant Research Scientist, Department of Meteorology, University of Maryland.
(1988-1991) Research Associate, Department of Meteorology, University of Maryland.
(1983-1988) Research Assistant, Department of Meteorology, University of Utah.
(1981-1983) Research Associate, Institute of Atmospheric Physics, Chinese Academy of Sciences.

HONORS AND AWARDS:

2017 American Meteorological Society Fellow
2014 Certificate of Achievement in leading NSF-Funded Research Project on Climate Change in East Asia and Funding and Supporting the Chinese-American Oceanic and Atmospheric

Association, Southern California Chapter.
1988 National Research Council Research Associateship Award

PROFESSIONAL ASSOCIATION
Member, American Meteorological Society
Member, American Geophysical Union
Member, American Association for the Advancement of Science
Member, Chinese American Oceanic and Atmospheric Association
Member, American Association of Geography
Member, European Geophysical Society
Member, Sigma Xi Society

TEACHING
Graduate Courses (regularly taught)
Introduction to Biophysical Modeling, Regional Climate and Terrestrial Surface Processes
Undergraduate Courses (regularly taught)
Human Impact on Biophysical Environment, Applied Climatology, Remote Sensing Digital Image Processing
Other Courses/Lectures
Remote Sensing & GIS, History and Structure of Modern Geography, Physical Geography

ADVISING
Major Advisor or co-advisor for *Ph.Ds*.: C. Adam Schlosser (1995); Dev Niyogi (2006), Fernando De Sales (2006), Guoqiong Song (9/24/2013), Sigrid Rian, Catalina Oaida (12/05/2014), Huilin Huang (Fall., 2017-Winter 2021), Khalil Ganem (Fall 2020-) Zhiqiong Cao (Fall 2021-);
Major Advisor for *Masters*: Daniel Kahan, Paul Levine, Fernando De Sales, Qian Fu, Guoqiong Song, Jin Gao (7/2011), Lisa Calhoon (6/19/13), Alisha Chandran (March 2016-June 2017), Huiling Huang (September 2015-Spring 2017); Wufan Zhang (Fall 2018-Spring 2020); Zhiqiong Cao (2020-2021).
Advisors/Hosts For Visiting Scholars : Aaron Boone (France, 2007-2010), Isebeel, Poccard (2007-2010), Jinjun Ji, (2004),Shufen Sun (2005), Jinming Fang (2007 Oct -2008 Jan), Yang Yang (2008 September -2009 September), Tomonori Sato (2010 march-June), Zhenxin Liu (September 2010-2012. Ph.D. June 2013), Jiangbo Gao (2010-2012. Ph.D. June 2012), Ye Liu (2013-2014, Ph.D. 2015), Bo Qiu (2014-2016), Yang Wang (October 2014-October, 2016), Yang Chen (October 2014-September 2015), Xuexia Zhang (September 2014-September 2015), Aihong Fu (January 2015 -), Wenkai Li (November 2015, April – September 2016); Jiping Que (Sept., 2015-Sept., 2017), Zheng Xian (jan. 2017-2019), Zhanmei Yang (2019-2020), Qiuyu Chen (2019-2020)
Supervisor for Postdoctoral Researchers: Weiyong Yang (1992), Mira Ruml (1997-1998), Renhe Zhang (1998-1999), Xiwu Zhang (1998-1999), Yan Jun Jiao (1998-1999), Shufen Sun (1998-1999, 2005), Lan Yi (1999-2001), Weiping Li (1999-2002), Isebelle Poccard (2002-2004), Hyan-Suk Kang (Aug. 2003-July. 2006), Huiping Deng (2004-April 2007), Fernando De Sales (2006-2008), Zheng-Qiu Zhang (April 2007-July 2010, May 2013-May 2014), Suosuo Li (Feb. 2012-2013), Qian Li (October 2014-February 2015; July 2015-July-2016), Jiwoo Lee

(February 2015-February 2016), Ismaila Diallo (May 2015-2021), Nagaraju Chilukoti (April, 2016-Feb. 2018), Ye liu (March, 2016-2020), Haraprasad Nayak (July 2021-)

INTERNATIONAL ACTIVITIES

- Chair (2018 - present) GEWEX/GASS Initiative "Impact of initialized land temperature and snowpack on subseasonal to seasonal prediction (LS4P)" https://ls4p.geog.ucla.edu/
- Panel Member (2018 - present), the GEWEX/GASS project (Global Energy and Water Exchanges Global Atmospheric System Study
- Principle organizer (2006-2016), West African Monsoon Modeling and Evaluation (WAMME), https://wamme.geog.ucla.edu/
- Member (2013-2015), the Asia-Australia Monsoon Panel (AAMP)/CLIVER

SELECTED PROFESSIONAL SERVICES

1). Editorship

Editor, *Journal of Meteorological Research*
Associate Editor, *Advance in Atmospheric Sciences*; *ACTA Meteorologica Sinica* (till 2013).
Guest Editor, *Climate Dynamics*

2) Conference Organization

Organizer, short course "Land Surface/ Climate Interactions", AMS Annual Meeting (2000, 2002, 2006)
Convener and Chair, "Land/Atmosphere Interactions" session, AMS Annual Meeting (in even years since 2000)
Chairs of Conference sessions of 2003 IUGG;
Co-Organizer, the Mississippi Hydrological and Climatology Conference (2002).
Organizer, "Monsoon climate" session, AAG annual meeting (2004)
Co-Chair, International Workshop on the Air-Land Interaction in Arid and Semi-Arid Areas and Its Impact on Climate (Dunhuang City, China, 2002)
Co-Chair, Workshop on Weather and Climate over Tibetan Plateau and Adjacent Regions and their Global Implication (Chengdu, China 14-17 August 2011).
Member of the International Program Committee, International Conference on Environmental Modelling and Simulation (EMS 2006), St. Thomas, Virgin Islands.
Member, Scientific Committee for the International Workshop on the Energy and Water Cycle over the Tibetan Plateau (Lhasa, China, 2006)
Member, Scientific Committee for Second International AMMA (African Multidisciplinary Monsoon Analysis) Conference (Karlsruhe, Germany, 2007)
Organizer, Hydroclimate of the West Africa and South America Monsoons, AGU Assembly (2007)
Organizer, First West African Monsoon Modeling and Evaluation (WAMME) Workshop, AMS Annual meeting (2008)
Member of the International Program Committee (IPC), the IASTED (International Association of Science and Technology for Development) International Conference on Environmental Modelling and Simulation (2009, 2010, 2011)
Member of the Program Committee, the *International Symposium on the Frontier of Atmospheric Sciences.* August 11-14, 2011 in Beijing
Organizer, "West African Monsoon and its Modeling", AGU Fall Meeting, 2013

Organizer, "Second West African Monsoon Modeling and Evaluation (WAMME) Workshop", AGU Fall Meeting, 2013

Organizer, "Intraseasonal-to-Decadal Prediction and Predictability Associated with Terrestrial Surface Processes and Drought", AGU Fall Meeting, 2014.

Organizer, "Intraseasonal to decadal climate variability, prediction, and predictability associated with land-atmosphere interactions, AGU Fall Meeting, 2025

Co-Chair, "International Workshop on Land Surface Multi-spheres Processes of Tibetan Plateau and their Environmental and Climate Effects Assessment (Xining, China, August 8-10, 2016).

Primary convener, "Grand Challenges in Earth System Modeling: Decadal Climate Variability and Change, Prediction, and Its Applications", AGU Fall Meeting, 2016

Primary convener, "Understanding and predictions of sub-seasonal to seasonal land-induced forcing and atmosphere interactions on droughts/floods and heatwaves", AGU Fall Meeting, 2019

Organizer, International Workshop of GEWEX/GASS LS4P Initiative and TPEMIP (2018, 2019, 2000)

Organizer, GEWEX/LS4P Phase II International Workshop (2022, 2023)

PEER REVIEWED PUBLICATIONS:

1Xue, Y., R. Huang, and X. Zhou, 1982: Application of Monte Carlo method to remote sensing umidity profile by atmospheric microwave emission. *Scientia Sinica* (Series B), **XXV (6)**, 646-657.

2Xue, Y., R. Huang, and X. Zhou, 1983: Inversion method of determining vertical profile of water vapor using ground-based sensing. *Scientia Atmospherica Sinica*, **7 (2)**, 115-124. (in Chinese).

3Xue, Y., R. Huang, and X. Zhou, 1983: The principle and numerical tests of remote sounding of water vapor profiles with statistics method. *China Space Science and Technology*, **3,** 12-16, (in Chinese).

4Xue, Y. and H. Lin, 1984: A simultaneous numerical solution for ground-based microwave remote sensing of temperature and water vapor profiles in 5 mm oxygen and 1.348 cm water vapor bands. *ACTA Meteorologia Sinica*. **42 (4)**, 423-430, (in Chinese).

5Wei, C., Y. Xue, X. Zhu, and S. Zou, 1984: Determination of atmospheric precipitate water and humidity profiles by a ground-based 1.35 cm radiometer. *Adv. in Atmos Sci*., **1** (1), 119-127.

6Liou, K.N. and Y. Xue, 1988: Exploration of the remote sounding of infrared cooling rates due to water vapor. *Meteor. Atmos. Phys*., **38**, 131-139.

7Xue, Y., K.N. Liou, and A. Kasahara, 1990: Investigation of the biogeophysical feedback on the African climate using a two-dimensional model. *J. Climate*, **3**, 337-352. https://doi.org/10.1175/1520-0442

8Xue, Y., 1991: A two-dimensional coupled Biosphere-Atmosphere model and its application. *Adv. in Atmos. Sci*., **8**, 447-458. DOI: https://doi.org/10.1007/BF02919267

9Xue, Y., P. J. Sellers, J.L. Kinter III, and J. Shukla, 1991: A simplified biosphere model for global climate studies. *J. Climate*, **4**, 345-364.

10Xue, Y., 1993: The influence and mechanisms of biosphere feedback on African climate. In Macroscale modeling of the hydrosphere, (ed. Wilkinson, W.B.), International Association of Hydrological Sciences (IAHS), publication No. 214, 119-124.

11Xue, Y. and P. J. Sellers, 1993: A brief review of Simple Biosphere Model (SiB). In Integrating

Geographic Information Systems and Environmental Modeling, (eds. Goodchild, M.F., Parks, B.O.,Steyaert, L.T.), Oxford Univ. Press, 290-295.

12Xue, Y. and J. Shukla, 1993: The influence of land surface properties on Sahel climate. **Part I** Desertification. *J. Climate* , **6**, 2232-2245.

13Fennessy, M. J., J.L. Kinter III, B. Kirtman, L. Marx, S. Nigam, E. Schneider, J. Shukla, D. Straus, A. Vernekar, Y. Xue, and J. Zhou, 1994: The simulated Indian monsoon: A GCM sensitivity study. *J. Climate,* **6**, 33-43.

14Robock, A., K.V. Vinnikov, C.A. Schlosser, N.A. Speranskaya, and Y. Xue, 1995: Use of midlatitude soil moisture and meteorological observations to validate soil moisture simulations with biosphere and bucket models. *J. Climate*, **8**, 15-35.

15Chen F., K. Mitchell, J. Schaake, Y. Xue, H.-L. Pan, V. Koren, Q. Duan, M. Ek, and A. Betts, 1996: Modeling of land-surface evaporation by four schemes and comparison with FIFE observations (PILPS). *J. Geophy. Res.*, **101**, D3, 7251-7268.

16Mahfouf, J.-F., C. Ciret, A. Duchame, P. Irannejad, J. Noilhan, Y. Shao, P. Thornton, Y.Xue, and Z.L. Yang, 1996: Analysis of results from PILPS-RICE workshop, Part III: Transpiration, *Global & Planetary Change,* **13**, 73-88.

17Wetzel, P.J., X. Liang, P. Irannejad, A. Boone, J. Nolihan, Y. Shao, C. Skely, Y. Xue, and Z.-L. Yang, 1996: Modeling vadose zone liquid water fluxes: infiltration, runoff, drainage, interflow. *Global & Planetary Change*, **13**, 57-72.

18Xue, Y., 1996: The Impact of desertification in the Mongolian and the Inner Mongolian grassland on the regional climate. *J. Climate*, **9**, 2173-2189. doi: http://dx.doi.org/10.1175/1520-0442

19Xue, Y., H.G. Bastable, P. A. Dirmeyer, and P.J. Sellers, 1996a: Sensitivity of simulated surface fluxes to changes in land surface parameterization -- a study using ABRACOS data. *J. Appl. Meteor*., **35**, 386-400.

20Xue, Y., M.J. Fennessy, and P.J. Sellers, 1996b: Impact of vegetation properties on U.S. summer weather prediction. *J. Geophy. Res*., **101**, **D3**, 7419-7430.

21Xue, Y. and J. Shukla, 1996: The influence of land surface properties on Sahel climate. **Part I** Afforestation. *J. Climate*, **9,** 3260-3275.

22Xue, Y., F. J. Zeng, and C.A. Schlosser, 1996c: SSiB and its sensitivity to soil properties --- a case study using HAPEX-Mobilhy data. *Global & Planetary Change,* **13**, 183-194.

23Chen, T.H. and Collaborators (including Y. Xue), 1997: Cabauw experimental results from the project for intercommparison of land surface parameterization schemes. *J. Climate*, **10**, 1194-1215.

24Fennessy, M.J. and Y. Xue 1997: Impact of vegetation map on GCM seasonal simulations over the United States. *Ecological Application,***7**, 22-33.

25Schlosser, C.A., A. Robock, K.Y. Vinnikov, N.A. Speranskaya, and Y. Xue, 1997: 18-year land-surface hydrology model simulations for a midlatitude grassland catchment in Valdai, Russia. *Mon. Wea. Rev.*, **125**, 3279-3296.

26Xue, Y., 1997: Biosphere feedback on regional climate in tropical north Africa. *Quart. J. Roy. Met. Soc*, 123, B, 1483-1515.

27Xue., Y., J. Elbers, F.J. Zeng, and A.J. Dolman, 1997: GCM parameterization for Sahelian land surface processes, 289-297. In HAPEX-Sahel West Central Supersite: Methods, Measurements and Selected Results (eds. P. Kabat, S. Prince, L. Prihodko). Rep 130.HM/07.97. The Winand Staring Center for Integrated land, soil and water research. The Netherlands.

28Xue, Y., P.J. Sellers, F.J. Zeng, and C.A. Schlosser, 1997: Comments on "Use of midlatitude soil moisture and meteorological observations to validate soil moisture simulations with biosphere and bucket models". *J. Climate,* **10**, 374-376. https://doi.org/10.1175/1520-0442(1995)008<0015:UOMSMA>2.0.CO;2

29Liang S., and Collaborators (including Y. Xue), 1998: The project for intercomparison of land-surface parameterization schemes (PILPS) phase-2(c) Red-Arkansas River basin experiment: 2. Spatial and temporal analysis of energy fluxes. *Global & Planetary Change,* **19**, 137-159.

30Lohmann, D., and Collaborators (including Y. Xue), 1998: The project for intercomparison of land-surface parameterization schemes (PILPS) phase-2(c) Red-Arkansas River basin experiment: 3. Spatial and temporal analysis of water fluxes. *Global & Planetary Change,* **19,** 161-179.

30Polcher J., B. McAvaney, P. Viterbo, M.-A. Gaertner, A. Hahmann, J.-F. Mahfouf, J. Noilhan, T. Phillips, A. pitman, C.A. Schlosser, J.-P. Schulz, B. Timbal, D. Verseghy, Y. Xue, 1998: A proposal for a general interface between land-surface schemes and general circulation models. *Global & Planetary Change,* **19,** 261-276.

32Schulz, J.-P., L. Dumenil, J. Polcher, C.A. Schlosser, and Y. Xue, 1998: Land surface energy and moisture fluxes: comparing three models, *J. Appl. meteor*., **37**, 288-307.

33Wood, E.F., and Collaborators (including Y. Xue), 1998: The project for intercomparison of land-surface parameterizations schemes (PILPS) phase-2(c) Red-Arkansas River basin experiment: 1. Experiment description and summary intercomparisons. *Global & Planetary Change,* **19**, 115-135.

34Xue, Y. and J. Shukla, 1998: model simulation of the influence of global SST anomalies on the Sahel rainfall. *Mon. Wea. Rev.,* **126,** 2782-2792.

35Xue, Y., F.J. Zeng, Y. Ji, K. Mitchell, and Z. Janjic, 1998: The impact of land surface processes and reanalysis data on the U.S. weather prediction. Proceedings of the First WCRP International Conference on Reanalyses, WMO/TD-NO. 876, 243-246.

36Xue, Y., F. J. Zeng, C.A. Schlosser, and S. Allen, 1998: A simplified Simple Biosphere Model (SSiB) and its application to land-atmosphere interactions. *Chinese Journal of Atmospheric Sciences.* **22**, 468-480.

37Pitman, A. J., A. Henderson-Sellers, C. E. Desborough, Z.-L. Yang, F. Abramopoulos, A. Boone, R. E. Dickinson, N. Gedney, R. Koster, E.Kowalczyk, D. Lettenmaier, X. Liang, J.-F. Mahfouf, J. Noilhan, J. Polcher, W. Qu, A. Robock, C. Rosenzweig, C. A. Schlosser, A. B. Shmakin, J. Smith, M. Suarez, D. Verseghy, P. Wetzel, E. Wood, Y. Xue, 1999: Key results and implications from phase 1(c) of the Project for Intercomparison of Land-surface Parameterization Schemes *Climate Dynamics*, **15** , 673-684.

38Sun, S.F., J.M. Jin, Y. Xue, 1999: A simplified layer snow model for global and regional studies. *J. Geophys. Res*. **104**, D16, 19587-19597.

39Weng, H.Y., K.M. Lau, and Y.K. Xue, 1999: Multi-scale summer rainfall variability over China and its long-term link to global sea surface temperature variability. *J. Meteor. Soc. Of Japan,* **77**, 845-857.

41Xue, Y., H.H. Juang, S.Y. Hong, M. Kanamitsu, and M. Hansen, 1999: Asian monsoon and vegetation interactions. GEWEX newsletter, 9, 8-9.

42Xue, Y., 1999: Deforestation and Climate Effects. Proceedings of Forum "Forests and Atmosphere - Water - Soil", NNA-Reports, 12, 122-124.

43Schlosser C. A., and Collaborators (including Y. Xue), 2000: Simulations of a boreal grassland hydrology at Valdai, Russia: PILPS Phase 2(d). *Mon. Wea. Rev.*, **128**, 301-321.

44Clark, D.B., Yongkang Xue, R. Harding, and P. J. Valdes, 2001: Modeling the impact of land surface degradation on the climate of tropical North Africa. *J. Climate,* **14**, 1809-1822.

45Giorgi F, Hewitson B., Christensen J, Hulme, M., Storch, H, Whetton P , Jones R, Mearns L, Fu C, Arritt R, Bates B, Benestad R, Boer G, Buishand A, Castro M, Chen D, Cramer W, Crane R, Crossly J, Dehn M, Dethloff K, Dippner J, Emori S, Francisco R, Fyfe J, Gerstengarbe F, Gutowski W, Gyalistras D, Hanssen-Bauer I, Hantel M, Hassell D, Heimann D, Jack C, Jacobeit J, Kato H, Katz R, Kauker F, Knutson T, Lal M, Landsea C, Laprise R, Leung L, Lynch A, May W, McGregor J, Miller N, Murphy J, Ribalaygua J, Rinke A, Rummukainen M, Semazzi F, Walsh K, Werner P, Widmann M, Wilby R, Wild M, Xue Y (2001), Chapter 10: Regional Climate Information-Evaluation and Projections, 583- 638 in Climate Change 2001: The Scientific Basis. [Houghton, J.T. et al. (eds)]. Cambridge University Press, 881pp

46Slater, A.G., C. A. Schlosser, C. E. Desborough, A.J. Pitman, A. Henderson-Sellers, A. Robock, K. Ya. Vinnikov, K. Mitchell, A. Boone, H. Braden, F. Chen, P. M. Cox, P. de Rosnay, R. E. Dickinson, Y.-J. Dai, Q. Duan, J. Entin, P. Etchevers, N. Gedney, Ye. M. Gusev, F. Habets, J. Kim, V. Koren, E. A. Kowalczyk, O. N. Nasonova, J. Noilhan, S. Schaake, A. B. Shmakin, T. G. Smirnova, D. Verseghy, P. Wetzel, Y. Xue, Z.-L. Yang, and Q. Zeng: 2001: The representation of snow in land-surface schemes; results from PILPS 2(d). *J. Hydrometeorology*, **2**, 7-25.

47Sun S. and Xue Yongkang, 2001: Implementing a new snow scheme in Simplified Simple Biosphere Model (SSiB), *Advance in Atmospheric Sciences*, **18**, 335-354.

48Xue, Y., F. J. Zeng, K. Mitchell, Z. Janjic, and E. Rogers, 2001: The Impact of Land Surface Processes on Simulations of the U.S. Hydrological Cycle: A Case Study of the 1993 Flood Using the SSiB Land Surface Model in the NCEP Eta Regional Model. *Mon. Wea. Rev.* , **129**, 2833-2860.

49Chou, S. C., C. A. S. Tanajura, Yongkang Xue, C. A. Nobre, 2002: Simulation of the coupled Eta/SSiB model over South America. *J. Geophys. Res.* **107, D20,** doi:10.1029/2000JD000270.

50Goward S.N., Yongkang Xue, K. Czaykowski, 2002: Evaluating Land Surface Moisture Conditions from Remotely Sensed Temperature/Vegetation Index Measurement: an exploration employing the Simplified Simple Biosphere Model. *Remote Sensing of Environment*. **79,** 225-242.

51Lambin, E. F., P.S. Chasek, T.E. Downing, C. Kerven, A. Kleidon, R. Leemans, M. Lüdeke, S.D. Prince, Y. Xue, 2002: The interplay between international and local processes affecting desertification in "Global Desertification: Do Humans cause deserts?" Reynolds, J.F., and D.M. Stafford Smith, eds. Dahlem University Press, Berlin, P 387-401.

52Niyogi, D. S., Yongkang Xue, and S. Raman, 2002: Hydrological feedback in land-atmosphere coupling: Comparison of a tropical and a midlatitudinal regime. *J. Hydrometeorology*. **3**, 39-56.

53Xue, Y. and M. D. Fennessy, 2002: Under what conditions does land cover change impact regional climate in "Global Desertification: Do Humans cause deserts?" Reynolds, J.F., and D.M. Stafford Smith, eds. Dahlem University Press, Berlin, P 59-74

54Luo, L., A. Robock, K. Y. Vinnikov, C. A. Schlosser, A. G. Slater, A. Boone, H. Braden, P. Cox, P. de Rosnay, R. E. Dickinson, Y.-J. Dai, Q. Duan, P. Etchevers, A. Henderson-Sellers, N. Gedney, Y. M. Gusev, F. Habets, J. Kim, E. Kowalczyk, K. Mitchell, O. N. Nasonova, J. Noilhan, A. J. Pitman, J. Schaake, A. B. Shmakin, T. G. Smirnova, P. Wetzel, Yongkang Xue, Z.-L. Yang, and Q.-C. Zeng, 2003: Effects of frozen soil on soil temperature, spring infiltration, and runoff: Results from the PILPS 2(d) experiment at Valdai, Russia. J. Hydrometeorology, 4, 334-351.

55Marland G., R. A. Pielke Sr., M. Apps, R. Avissar, R. A. Betts, K.J. Davis, P.C. Frumhoff, S.T. Jackson, L. Joyce, P. Kauppi, J., Katzenberger, K.G. MacDicken, R. Neilson, J. O. Niles, D. S. Niyogi, R. J. Norby, N. Pena, N. Sampson, Yongkang Xue, 2003: The climatic impacts of land surface change and carbon management, and the implications for climate-change mitigation policy. *Climate Policy*, **3**, 149-157.

56Bowling, Laura C.; Lettenmaier, Dennis P.; Nijssen, Bart; Graham, L. Phil; Clark, Douglas B; El Maayar, Mustapha; Essery, Richard; Goers, Sven; Gusev, Yeugeniy M.; Habets, Florence; van den Hurk, Bart\; Jin, Jiming; Kahan, Daniel; Lohmann, Dag; Ma, Xieyao; Mahanama, Sarith; Mocko, David; Nasonova, Olga; Niu, Guo-Yue; Samuelsson, Patrick; Shmakin, Andrey B.; Takata, Kumiko; Verseghy, Diana; Viterbo, Pedro; Xia, Youlong; Xue, Yongkang; Yang, Zong-Lian, 2003, Simulation of high latitude hydrological processes in the Torne_Kalix basin: PILPS phase 2(e). 1: Experiment description and summary inter-comparisons. *Global & Planetary Change*, **38**, 1-30.

57Nijssen, Bart; Bowling, Laura C.; Lettenmaier, Dennis P.; Clark, Douglas B.; El Maayar, Mustapha; Essery, Richard; Goers, Sven; Gusev, Yeugeniy M.; Habets, Florence; van den Hurk, Bart; Jin, Jiming; Kahan, Daniel; Lohmann, Dag; Ma, Xieyao; Mahanama, Sarith; Mocko, David; Nasonova, Olga; Niu, Guo-Yue; Samuelsson, Patrick; Shmakin, Andrey B.; Takata, Kumiko; Verseghy, Diana; Viterbo, Pedro; Xia, Youlang; Xue, Yongkang; Yang, Zong-Liang, 2003, Simulation of high latitude hydrological processes in the Torne_Kalix basin: PILPS phase 2(e). 2: Comparison of model results with observations. *Global & Planetary Change*, **38,** 31-53.

58Niyogi D., R. A. Pielke Sr., K. Alapaty, J. Eastman, T. Holt, U. C. Mohanty, S. Raman, T. K. Roy, Y. K. Xue, 2003, Challenges of representing land surface processes in weather and climate models over Tropics: Examples over the Indian subcontinent, in Weather and Climate Modeling, Eds. S.V. Singh, Swati Basu & T.N.Krishnamurti, New Age International (P) Limited,Publishers, New Delhi, pp. 132 - 145.

59Xue, Yongkang, S. Sun, D. Kahan, Y. Jiao, 2003: The impact of parameterizations in snow physics and interface processes on the simulation of snow cover and runoff at several cold region sites. *J. Geophy. Res*. **108**, D22, 8859, doi: 10.1029/2002JD003174. PP20.

60Zhang, D.-L., W.-Z. Zheng, and Yong-Kang Xue, 2003: A numerical study of early summer regional climate and weather over LSA-East: Part I: Model description and verification. *Mon. Wea. Rev.***, 131,** 1895-1909.

61Zhan, X., Yongkang Xue, G. J. Collatz, 2003: An analytical approach for estimating CO_2 and heat fluxes over the Amazonian region. *Ecological Modeling*. **162**, 97-117.

62Koster, R. D., P. A. Dirmeyer, Z. Guo, G. Bonan, E. Chan, P. Cox, C. T., Gordon, S. Kanae, E. Kowalczyk, D. Lawrence, P. Liu, C.-H. Lu, S. Malyshev, B. McAvaney,K. Mitchell, D. Mocko, T. Oki, K.. Oleson, A. Pitman, Y. C. Sud, C. M. Taylor, D. Verseghy,

R.Vasic, Y. Xue, T. Yamada, 2004: Regions of strong coupling between soil moisture and precipitation. *Science*, **305**, 1138-1140.

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