

IAHS Symposium, 2005

International Commission on the Coupled Land-Atmosphere System (ICCLAS)

Status Report April 2005

Officers

Charles Vörösmarty	President	2001 - 2005
Hoshin V. Gupta	President Elect	2003 - 2005
Stewart Franks	Vice-President	2003 - 2007
Eva Bøgh	Vice-President	2003 - 2007
Luis Bastidas	Vice-President	2003 - 2007
Thorsten Wagener	Secretary	2003 - 2007

1. Activities till April 2005

Past ICCLAS supported meetings:

- International MOPEX Workshop (Paris, France, 1-3 July 2004, representation by Hoshin Gupta and Thorsten Wagener (organizers))
- International PUB/IAHS Workshop on “Uncertainty Analysis in Environmental Modeling” (Menaggio, Italy, 6-8 July 2004, representation by Thorsten Wagener and Hoshin Gupta (organizers))
- British Hydrological Society International Symposium on “Hydrology: Science and Practice for the 21st Century” (London, UK, 12-16 July 2004, representation by Hoshin Gupta and Thorsten Wagener (session chairs and speakers))
- AGU Fall Meeting Session on “Integrated Modeling for Hydrologic Decision Making and Policy Analysis” (San Francisco, USA, December 2004, representation by Hoshin Gupta (convenor))
- VIIth IAHS Scientific Assembly (Foz do Iguaçu, Brazil, 4-9 April 2005)
 - Symposium on “Prediction in Ungauged Basins”, S#7-2: Model evaluation and comparison: uncertainty analysis and diagnostics (representation by Stewart Franks and Thorsten Wagener (conveners))
 - Workshop (W#5) on MOPEX - Model Parameter Estimation Experiment (representation by Hoshin Gupta (convenor))
 - 3-day Symposium (S#6) on “Regional Hydrologic Impacts of Climatic Variability and Change with an Emphasis on Less Developed Countries” (representation by Thorsten Wagener, Stewart Franks, Hoshin Gupta, Eva Bøgh and Luis Bastidas (conveners)) – Almost 140 submitted abstracts
- 2 IAHS redbooks with papers of the S#6 Symposium are published:

- **Regional Hydrological Impacts of Climatic Change— Impact Assessment and Decision Making** Part 1 of the proceedings of Symposium S6 held during the Seventh IAHS Scientific Assembly at Foz do Iguaço, Brazil, April 2005, *edited by Thorsten Wagener, Stewart Franks, Hoshin V. Gupta, Eva Bøgh, Luis Bastidas, Carlos Nobre & Carlos de Oliveira Galvão*, Publ. 295 (2005) ISBN 1-901502-08-2
- **Regional Hydrological Impacts of Climatic Change—Hydroclimatic Variability** Part 2 of the proceedings of Symposium S6 held during the Seventh IAHS Scientific Assembly at Foz do Iguaço, Brazil, April 2005, *edited by Stewart Franks, Thorsten Wagener, Eva Bøgh, Hoshin V. Gupta, Luis Bastidas, Carlos Nobre & Carlos de Oliveira Galvão*, Publ. 296 (2005) ISBN 1-901502-13-9
- Two contributions to the IAHS newsletter, on the Uncertainty Workshop in Menaggio and on ICCLAS itself, have been published:
 - Wagener, T., Gupta, H.V., Franks, S., Boegh, E. and Bastidas, L. 2004. **The international commission on the coupled land-atmosphere system – ICCLAS**. IAHS Newsletter, NL81, p.9.
 - Wagener, T., Freer, J., Zehe, E., Gupta, H.V., Beven, K.J. and Bardossy, A. 2004. **‘Uncertainty Analysis in Environmental Modeling’ – A Report on the International IAHS-PUB Workshop held in Menaggio, Italy**. IAHS Newsletter, NL81, p.4-5.
- Two contributions to the AGU/EOS journal of the relevance of PUB for the US and on the future of MOPEX have been published:
 - Hogue, T., Wagener, T., Schaake, J., Duan, Q., Hall, A., Gupta, H.V., Leavesley, G. and Andreassian, V. 2004. **A New Phase of the Model Parameter Estimation Experiment (MOPEX)**. Eos, Trans. AGU, 85(22), 217-218.
 - Wagener, T., Sivapalan, M., McDonnell, J.J., Hooper, R., Lakshmi, V., Liang, X. and Kumar, P. 2004. **Predictions in Ungauged Basins (PUB) — A catalyst for multi-disciplinary hydrology**. Eos, Trans. AGU, 85(44), 451-452.
- An AGU/EOS contribution highlighting ICCLAS-related science through the newly-formed Global Water System Project, convened as an Earth System Science Partnership Project (DIVERSITAS, IGBP, IHDP, WCRP):
 - Vörösmarty, C.J., D. Lettenmaier, C. Leveque, M. Meybeck, C.Pahl-Wostl, J.Alcamo, W.Cosgrove, H.Grassl, H.Hoff, P.Kabat, F.Lansigan, R.Lawford, R. Naiman. 2004. **Humans transforming the global water system**. Eos, Trans. AGU, 85(509), 513-14.

Other and ongoing ICCLAS supported activities:

- Implementation and updating of the ICCLAS web-site <https://www.hwr.arizona.edu/icclas> (Thorsten Wagener).
- IAMAS/IAHS initiative to organize a joint WMO/IUGG ad-hoc working group on aerosol pollution effects on precipitation at local, regional and global scales (representation by Eva Boegh).

Affiliated publications:

- Meybeck, M. and C.J. Vörösmarty. 2005. Fluvial filtering of land to ocean fluxes: from natural Holocene variations to Anthropocene. *Comptes Rendus* 337: 107–123.
- Vörösmarty, C.J., E.M. Douglas, P.A. Green, and C. Revenga. 2005. Geospatial indicators of emerging water stress: An application to Africa. *Ambio*. In press.
- Vörösmarty, C.J., C. Leveque, C. Revenga (Convening Lead Authors). 2005. Chapter 7: Fresh Water. In: *Millennium Ecosystem Assessment, Volume 1: Conditions and Trends Working Group Report*, (with R. Bos, C. Caudill, J. Chilton, E. M. Douglas, M. Meybeck, D. Prager, P. Balvanera, S. Barker, M. Maas, C. Nilsson, T.Oki, C. A. Reidy). Island Press. In press.
- Vörösmarty, C.J. and M. Meybeck. 2004. Responses of continental aquatic systems at the global scale: New paradigms, new methods. In: P. Kabat, M. Claussen, P.A. Dirmeyer, J.H.C. Gash, L. Bravo de Guenni, M. Meybeck, R.A. Pielke Sr., C.J. Vörösmarty, R.W.A. Hutjes, and S. Lutkemeier (eds.), *Vegetation, Water, Humans and the Climate*. Springer, Heidelberg, pp. 375-413.

2. Future activities after April 2005

Future ICCLAS supported meetings and sessions:

- AGU Spring Meeting Session on “Integrated Modeling for Hydrologic Decision Making and Policy Analysis” (San Francisco, USA, May 2005, representation by Thorsten Wagener (convenor))
- International Congress on Modelling and Simulation (MODSIM 2005) Session on “Multi-decadal climate variability and implications” (Melbourne, Australia, December 2005, representation by Stewart Franks)

3. New Contact Details for Eva Bøgh and Thorsten Wagener

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