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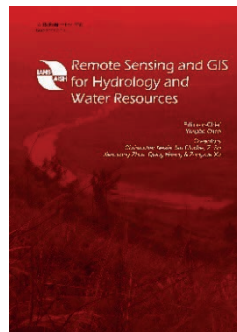
Remote Sensing and GIS for Hydrology and Water Resources

Editor: Yangbo Chen

Co-Editors: C. Neale, I. Cluckie, Z. Su, J. Zhou, Q. Huang & Z. Xu

IAHS Publ. 368 (May 2015)

ISBN 978-1-907161-46-9, 484 + xii pp. Price £110.00



Collects together 78 peer-reviewed papers presented at the 3rd Remote Sensing and Hydrology Symposium and the 3rd International Conference on GIS/RS in Hydrology, Water Resources and Environment, held concurrently in Guangzhou, China,

August 2014. Addresses:

- 1 GIS AND REMOTE SENSING
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- 3 WATER RESOURCES
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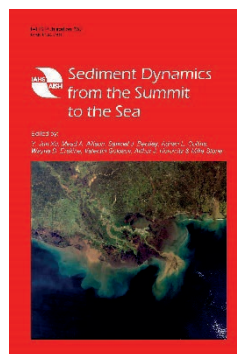
Sediment Dynamics from the Summit to the Sea

Editor: Y. Jun Xu

Co-Editors: M.A. Allison, S.J. Bentley, A.L. Collins, W.D. Erskine, V. Golosov, A.J. Horowitz & M. Stone

IAHS Publ. 367 (December 2014)

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Presents the latest research on topics from hillslope and channel erosion to riverine sediment transport, sediment-associated contamination/pollution, catchment and basin sediment yield, integrated erosion-sediment modelling, and coastal sediment dynamics.

Hydrological Sciences and Water Security: Past, Present and Future

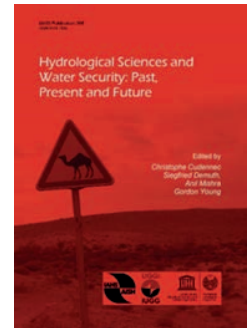
Editors: Christophe Cudennec, Siegfried Demuth, Anil Mishra & Gordon Young

IAHS Publ. 366 (April 2015)

ISBN 978-1-907161-44-5, 202 + x pp. Price £60.00

Water Security addresses the threats posed by floods, droughts and pollution spills to human societies, and also the impacts of inadequate supplies of water, both in quantity and quality, for food and energy production, for domestic

and industrial purposes, and for sustaining ecosystem productivity. The contributions arise from the 2014 Kovacs Colloquium held at UNESCO. The invited keynote papers are accompanied by extended poster abstracts.



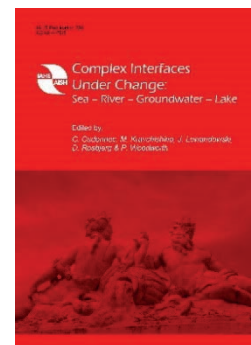
Complex Interfaces Under Change: Sea – River – Groundwater – Lake

Editors: C. Cudennec, M. Kravchishina, J. Lewandowski, D. Rosbjerg & P. Woodworth

IAHS Publ. 365 (December 2014)

ISBN 978-1-907161-43-8, 100 + viii pp. Price £36.00

Selected papers from two symposia at the 2013 IAHS-IAPSO-IASPEI Assembly in Gothenburg: HP2: Land–Ocean Interaction, and HP3: Implications of Sea Level Change for the Coastal Zone.

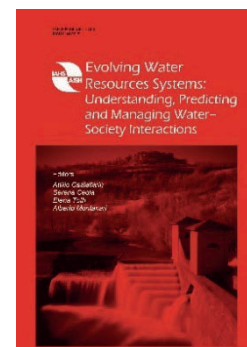


Evolving Water Resources Systems: Understanding, Predicting and Managing Water–Society Interactions

Editors: Attilio Castellari, Serena Ceola, Elena Toth & Alberto Montanari

IAHS Publ. 364 (June 2014)

ISBN 978-1-907161-42-1, 548 + xii pp. Price £118.00



Almost 90 papers address topics associated with water resources assessment and management in a changing environment, and particularly the two-way interaction between water and society, the

focus of the Panta Rhei IAHS research initiative (<http://www.iahs.info/pantarhei>). Water resources systems, catchment hydrology, eco-hydrology, groundwater hydrology, water security and socio-hydrology are the driving scientific areas that are covered.

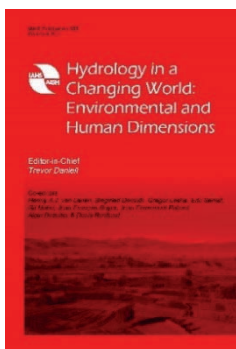
Hydrology in a Changing World: Environmental and Human Dimensions

Editor: Trevor M. Daniell

Co-Editors: H.A.J. Van Lanen, S. Demuth, G. Laaha, E. Servat, G. Mahe, J.-F. Boyer, J.-E. Paturel, A. Dezetter & D. Ruelland

IAHS Publ. 363 (October 2014)
ISBN 978-1-907161-41-4, 478 + xii pp. Price £105.00

Reviewed proceedings of the 7th World FRIEND Conference (France, 2014) contains 75 contributions on changes in hydrological processes and their impacts, including ecological flows, erosion and sedimentation, and the development of adaptable water management and water policies to account for these impacts, and changes in the frequency and variability of floods and droughts.

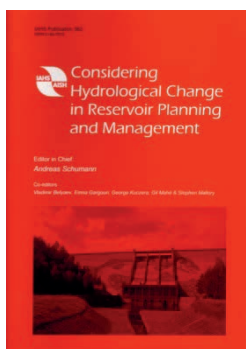


Considering Hydrological Change in Reservoir Planning and Management

Editor: Andreas Schumann

Co-editors: Vladimir Belyaev, Emna Gargouri, George Kuczera, Gil Mahé & Stephen Mallory

IAHS Publ. 362 (July 2013)
ISBN 978-1-907161-40-7, 214 + x pp. Price £61.00



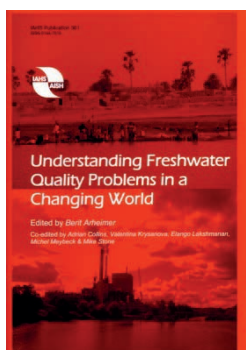
An excellent overview of contemporary problems in reservoir management, from planning aspects of large and small dams, to governmental matters, sedimentation issues, and climate change impacts.

Understanding Freshwater Quality Problems in a Changing World

Edited by Berit Arheimer

Co-edited by A. Collins, V. Krysanova, El. Lakshmanan, M. Meybeck & M. Stone

IAHS Publ. 361 (July 2013)
ISBN 978-1-907161-39-1, 372 + xii pp. Price £87.00



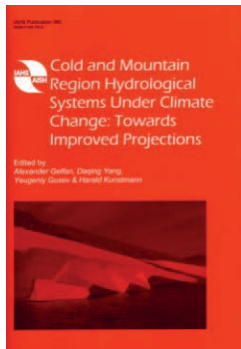
Contributions from each continent provide a review of water quality problems worldwide, describing present regional/local freshwater quality status and highlight research needs and development into the future, given ongoing changes in environment and society.

Cold and Mountain Region Hydrological Systems Under Climate Change: Towards Improved Projections

Edited by Alexander Gelfan, Daqing Yang, Yeugeniy Gusev & Harald Kunstmann

IAHS Publ. 360 (July 2013)
ISBN 978-1-907161-38-4, 184 + viii pp. Price £57.00

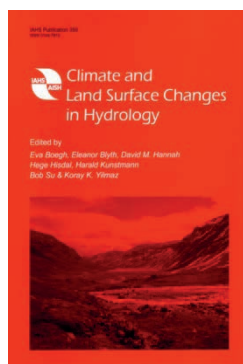
Presents results obtained from experimental and modelling studies of river basins, snow cover, permafrost, glaciers and ecosystems in cold regions located in different physiographic and climatic conditions. Collectively, they reveal physical mechanisms that control cold region hydrological responses to climate change, and consider the sources and magnitude of uncertainties to improve projections of these responses under different geographical conditions and at various time scales.



Climate and Land Surface Changes in Hydrology

Edited by E. Boegh, E. Blyth, D. M. Hannah, H. Hisdal, H. Kunstmann, B. Su & K. Yilmaz

IAHS Publ. 359 (July 2013)
ISBN 978-1-907161-37-7, 440 + viii pp. Price £95.00



Focuses on field-based and modelling studies addressing the sensitivity of hydrological and hydro-meteorological fluxes of the coupled land-atmosphere system to climate and land-use change at local, regional and global scales. Includes

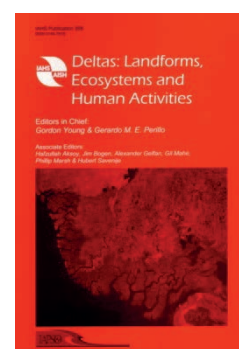
model-based studies that evaluate methodologies and impacts of using climate and weather prediction data. Several empirical studies, some from remote data-scarce regions, and others using Earth Observations to evaluate temporal and spatial variability in precipitation, evapotranspiration and hydrological predictions, are included.

Deltas: Landforms, Ecosystems and Human Activities

Editors Gordon Young & Gerardo M. E. Perillo

Associate Editors H. Aksoy, J. Bogen, A.I. Gelfan, G. Mahé, P. Marsh & H. Savenjiev

IAHS Publ. 358 (July 2013)
ISBN 978-1-907161-36-0, 246 + x pp. Price £65.00



Physically deltas are complex systems, the end-products of catchment processes involving water supply, sediment delivery and water quality – elements that are fast changing over time as a result both of human influences and change in climatic drivers. Result of a joint symposium of the International Associations of Hydrological Sciences (IAHS) and of Physical Sciences of the Ocean (IAPSO).

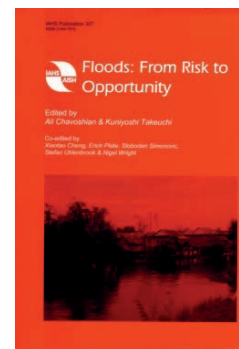
ces and change in climatic drivers. Result of a joint symposium of the International Associations of Hydrological Sciences (IAHS) and of Physical Sciences of the Ocean (IAPSO).

Floods: From Risk to Opportunity

Edited by A. Chavoshian & K. Takeuchi

Co-edited by X. Cheng, E. Plate, S. Simonovic, S. Uhlenbrook & N. Wright

IAHS Publ. 357 (February 2013)
ISBN 978-1-907161-35-3, 470 + x pp. £96.00



A paradigm shift from focusing on emergency response and recovery to flood risk management is required to build the capacity necessary to cope with floods. The process should

be supported by vulnerability monitoring and development of tools such as standard measures of risk and preparedness in an integrated approach to improve capacity to deal with floods, taking advantage of their benefits while minimizing the social, economic and environmental risks.



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