



Institut Montpellierain
de l'Eau
et de l'Environnement



FLOW REGIME FROM INTERNATIONAL EXPERIMENTAL AND NETWORK DATA

FRIEND-Water2014: 7th Global FRIEND-Water Conference

**Montpellier, France
07-10 October 2014**

**Hydrology in a Changing World:
Environmental and Human Dimensions**

Third Circular

Organized by:

UNESCO's International Hydrological Programme (IHP)
Institut Montpellierain de l'Eau et de l'Environnement (IM2E)
International Association of Hydrological Sciences (IAHS-AISH)
IAHS-AISH French Committee
German IHP/HWRP Hydrological Committee
Institut de Recherche pour le Développement (IRD)
Hydrosciences Montpellier (HSM)

Background

What is FRIEND-Water?

FRIEND-Water (Flow Regime from International Experimental and Network Data) is an international collaborative network of experts, which started 25 years ago, and that aims to generate new understanding about regional hydrology and multi-scale water cycle processes. FRIEND-Water is investigating long-term variations and changes in hydrological variables to better understand the climate, river basin and human controls on the spatial and temporal distribution of water. The science and training supported by the FRIEND-Water programme are critical for: water resources management, socio-economic development, safeguard the environment, and assessing the impact of global change, including climate change and human impact. As a cross-cutting theme of UNESCO's, International Hydrology Program (IHP), FRIEND-Water contributes to research on: regional water resources, droughts, global change and the water cycle, and water education and capacity building. The FRIEND-Water programme complements and interacts with many national projects and international initiatives.

Scientific objectives

People around the world face a non-stationary environment due to global change (e.g. climate change, land use change, urbanization). Impacts of hydrological processes change. More extreme events (drought, floods) are reported in many places around the world. Deterioration of wet terrestrial and aquatic ecosystems is hard to reverse under the increased pressure on land. Many reservoirs are filling up with sediment quicker than planned. This urges society to critically evaluate current water management practices and to prepare for implementation of change in the management of the water resources at different time horizons.

Hydrological science generates vast bodies of new understanding about changes but faces challenges to share this knowledge with operational water management, stakeholders and policy-makers. On the other hand the latter groups have difficulties to raise and highlight their demands.

The FRIEND-Water2014 Conference aims at sharing knowledge about change in hydrological processes (e.g. regimes, hydro-extremes), their impacts (e.g. ecological flows, erosion-sedimentation), and how this knowledge can be streamlined to let water management and policy to adapt to it.

Conference topics

1. Hydrological databases: how to cope with future questions
2. Trends in hydrological regimes and extremes
3. Changes in ecological flows and coastal eco-hydrology
4. Erosion and sediment transport processes and trends
5. Regional observational-hydrological modelling frameworks
6. Water resources and prospective scenarios

The Venue of the Conference

The venue of the conference will be at the Mare Nostrum - Montpellier Agglomeration Aquarium, Allee Ulysse - Odysseum 34000 Montpellier, France. Final stop of the Tramway line 1.

FRIEND Publications

The conference will produce the following documents:

- Hydrology in a Changing World: Environmental and Human Dimensions, IAHS Red Book No 363 (IAHS Red Books papers are indexed by ISI and SCOPUS).
- A web based report summarizing the FRIEND-Water programme since 2010 per Regional FRIEND-Water Group.
- Web based poster proceedings.

The web-based reports will become available prior to the conference at:

<http://www.unesco.org/new/en/natural-sciences/environment/water/> under "HIGHLIGHTS"

Registration and Payment

The conference will be held from October 7th to 10th. Registration will be open on Monday 6th in the afternoon from 15:00 to 18:00.

The FRIEND Conference web site is now open for registration at: <http://www.im2e.org/>.

PLEASE NOTE THAT YOU FIRST HAVE TO PRE-REGISTER ON THE WEBSITE AND WAIT FOR THE LOCAL ORGANIZING COMMITTEE TO CONFIRM YOUR PRE-REGISTRATION BEFORE BEING ABLE TO FINALIZE YOUR REGISTRATION THROUGH THE WEBSITE

Registration fees

The registration fees include:

- Admission to all congress sessions
- All congress materials
- IAHS Red Book
- Daily coffee/tea breaks
- Gala dinner on October 8th
- Lunches on October 7th, 8th and 10th
- Two activities offered (in the limit of available places):
 - ✓ guided tour of the Aquarium on October 9th morning and / or afternoon
 - ✓ an animation / wine tasting before Gala dinner

The Red Book is included in the registration for participants paying full fees. For beneficiaries of preferential fees, only first authors will receive the Red Book. A copy will be sent to each IM2E laboratory having one registered participant.

Registration details*	Until 15 May	After 15 May
Participant	340 €	400 €
Student (provide student card) and IM2E member	290 €	340 €
Supplements for Accompanying person*		
Gala dinner	40 €	40 €
Aquarium guided tour on October 9th morning and / or afternoon	15 €	15 €
Animation / wine tasting before Gala dinner	10 €	10 €

*All prices quoted are in Euros (€), including 20% VAT.

Cancellation of registration

No refunding can be done but, if you cannot attend, your registration can be used by someone else from your organization. Please inform as soon as possible the Congress Organization.

Payment

Your registration will only be accepted when full payment has been received. If you are unable to pay with a credit card (Visa or Eurocard/Mastercard) please settle your balance by bank transfer made out to CENTRE I.R.D. DE MONTPELLIER M. L'AGENT COMPTABLE SECONDAIRE in Euros.

Account holder: CENTRE I.R.D. DE MONTPELLIER M. L'AGENT COMPTABLE SECONDAIRE
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Please make sure to mention your name on your money transfer. The Congress secretariat will not be responsible for identifying funds transferred directly into the account when the name of the participant or invoice number is not mentioned, nor will the Congress secretariat accept charges of bank fees associated with the transfer.

Presentations

Oral Presentations

The speakers will have 15 min to present their paper, followed by 5 min of questions. The chairs of the sessions will watch and make respect scrupulously the granted time. The presentations will be made in English or in French; no simultaneous translation will be available.

Annex 1 provides a detailed program including titles of oral presentations.

Posters

Posters will be shown in a dedicated room on Tuesday 7 and Wednesday 8 October.

Annex 2 provides a detailed list of the posters.

Part of the presentations will take place in parallel sessions by topic, in 2 rooms and will be organized as follows:

Date	Time	Room 1	Room 2
Monday 6 October	15.00 – 18.00	Registration	
Tuesday 7 October	08.00 – 09.15	Registration	
	09.15 – 10.00	Opening Ceremony	
	10.00 – 10.30	Overview paper	
	11.00 - 12.20	1A- Trends in hydrological regimes and extremes	1B- Water resources and prospective scenarios
	14.00 – 15.20	2A- Trends in hydrological regimes and extremes	2B- Water resources and prospective scenarios
	16.00 – 17.20	3A- Trends in hydrological regimes and extremes	3B- Water resources and prospective scenarios
	17.20 – 18.30	4- Viewing of Posters	
Wednesday 8 October	09.00 – 10.20	5A- Trends in hydrological regimes and extremes	5B- Water resources and prospective scenarios
	11.00 - 12.20	6A- Trends in hydrological regimes and extremes	6B- Water resources and prospective scenarios
	14.00 – 15.20	7A- Trends in hydrological regimes and extremes	7B- Erosion and sediment transport processes and trends
	16.00 – 17.00	8- Trends in hydrological regimes and extremes	
	17.00 – 18.00	9- Viewing of Posters	
Thursday 9 October		FRIEND-Water Committees & Aquarium Guided Tour	
Friday 10 October	09.00 – 10.20	10A- Hydrological databases: how to cope with future questions	10B- Regional observational hydrological modelling frameworks
	11.00 - 12.20	11A- Hydrological databases: how to cope with future questions	11B- Regional observational hydrological modelling frameworks
	14.00 – 15.20	12A- Hydrological databases: how to cope with future questions	12B- Changes in ecological flows and coastal ecohydrology
	16.00 – 16.30	Closing Ceremony	

Side Events

Preliminary list of side events:

- Meetings of FRIEND-Water Regional groups (depending on the Regional Coordinators)
- FRIEND-Water Intergroup Coordination Committee (FIGCC) meeting

Meeting rooms are available at HydroSciences Montpellier Laboratory on Thursday 9 October. Please, contact the Local Organizing Committee for the access to these facilities.

Hotels - Transport

Find your accommodation and prepare your venue to the Mare Nostrum Montpellier Agglomeration Aquarium with the FRIEND Conference web site at: <http://www.im2e.org/>. Delegates can log on for booking hotels, tours and / or activities.

International Scientific Committee

Trevor Daniell (Chairperson, Australia)
Siegfried Demuth (UNESCO Paris)
Hafzullah Aksoy (Turkey)
Abou Amani (UNESCO Nairobi Office)
Jean-Francois Boyer (France)
Alain Dezetter (France)
David Hannah (United Kingdom)
Yan Huang (China)
Bamory Kamagate (Ivory Coast)
Shahbaz Khan (UNESCO Jakarta Office)
Gregor Laaha (Austria)
Gil Mahé (France)
Mohamed Meddi (Algérie)
Eduardo Planos Rodriguez (Cuba)
Denis Ruelland (France)
Eric Servat (France)
Henny van Lanen (FIGCC, The Netherlands)
Donna Wilson (Norway)

Local Organizing Committee

Sandra Ardoin-Bardin (France)
Jean-Francois Boyer (France)
Nicole Couesnon (France)
Alain Dezetter (France)
Eric Servat (France)

ANNEX 1: FRIEND-Water 2014 Conference Provisional Program

Tuesday, October 7th, 2014

08.00-09.15 Registration

09.15-10.00 Opening ceremony
UNESCO Representative
FIGCC Representative
IAHS Representative
IM2E Representative

10.00-10.30 Over 25 years of FRIEND-Water
HENNY A.J. VAN LANEN, SIEGFRIED DEMUTH, TREVOR DANIELL, DAVID M. HANNAH, GREGOR LAAHA,
GIL MAHE & LENA M. TALLAKSEN

10.30-11.00 Coffee break

11.00-12.20 Session 1A: Trends in hydrological regimes and extremes

- Regional assessment of low flow processes and prediction methods across European regimes
GREGOR LAAHA, ANNE F. VAN LOON, CLAIRE LANG DELUS & DANIEL KOFFLER
- Progressive aridity impact on the hydrological regime on the Volta river basin in Benin (West Africa)
HENRI S.V. TOTIN, ARNAUD ZANNOU, ERNEST AMOUSSOU, ABEL AFOUDA & MICHEL BOKO
- Multi-annual droughts in the water-stressed English lowlands: long-term variability and climate drivers
JAMIE HANNAFORD, CHRIS K. FOLLAND, MIKE C. KENDON, JOHN P. BLOOMFIELD
- Synthesizing changes in low flows from observations and models across scales
KERSTIN STAHL, JEAN-PHILIPPE VIDAL, JAMIE HANNAFORD, CHRISTEL PRUDHOMME, GREGOR LAAHA, LENA M. TALLAKSEN

11.00-12.00 Session 1B: Water resources and prospective scenarios

- Choosing metrics that matter – quantifying performance to help address reservoir operation challenges in Kenya's Tana basin
ANTHONY P. HURFORD & JULIEN J. HAROU
- Environmental and geomatics assessment of the Ha Thanh basin to hydrological hazards in central Vietnam
STEPHANE GRIVEL, ANH TU NGO, JEAN-MARC ZANINETTI & THI VAN LUONG
- Forecasting and mitigation of flooding in a Mediterranean karstic watershed
V. BORRELL-ESTUPINA, B. LADOUCHE, P.-O. MALATERRE, S. RICCI, Y. CABALLERO, M. COUSTAU, N. DORFLIGER, P. FLEURY, M. JAY-ALLEMAND, J.-C. MARECHAL, O. THUAL.

12.20-14.00 Lunch break

14.00-15.20 Session 2A: Trends in hydrological regimes and extremes

- Understanding and adapting to flood risk in a variable and changing climate
ANTHONY S. KIEM
- Trends in floods in small Norwegian catchments – instantaneous vs. Daily peaks
DONNA WILSON, HEGE HISDAL & DEBORAH LAWRENCE
- Climate change impact on flood generation process
BILJANA RADOJEVIC & PASCAL BREIL
- Flood duration frequency analysis in a changing climate: the methodology applied to Fengle River (Yangtze Basin, China)
C. SALLES, Y. CHU, J. L. PERRIN, M. G. TOURNOUD, L. BOUDET, F. N. CRES, C. RODIER, S. ZHENG L. HUANG & Y. MA

14.00-15.20 Session 2B: Water resources and prospective scenarios

- Assessing past and future water demands under climate change and anthropogenic pressures on two Mediterranean basins
B. GROUILLET, J. FABRE, D. RUELLAND, L. COLLET, J-F BOYER

- A multi-tracer approach to understand the hydrogeochemical functioning of a coastal aquifer located in NE Tunisia
FETHI LACHAAL, ANIS CHEKIRBANE, AMMAR MLAYAH, BILEL HJIRI & JAMILA TARHOUNI
- L'aménagement des barrages de retenue d'eau, une stratégie d'adaptation à la sécheresse dans le bassin du fleuve Niger ?
G. LIENOU, G. MAHE ; S.L. PIH ; D. SIGHOMNOU ; J.E. PATUREL, F. BAMBA
- Assessing the long-term evolution of water supply capacity: comparison of two Mediterranean catchments
J. FABRE, L. COLLET, M. MILANO, D. RUELLAND, A. DEZETTER, S. ARDOIN-BARDIN, E. SERVAT

15.20-16.00 Coffee break

16.00-17.20 Session 3A: Trends in hydrological regimes and extremes

- Future low flows and hydrological drought: how certain are these for Europe?
MARCEL A. A. ALDERLIESTE, HENNY A. J. VAN LANEN & NIKO WANDERS
- Analyse des périodes sèches dans le bassin d'Ichkeul (Tunisie) à partir de données journalières de pluviométrie
MAJID MATHLOUTHI, FETHI LEBDI
- Changes of drought characteristics in small Czech and Slovakian catchments projected by the CMIP5 GCM ensemble
MARTIN HANEL, ADAM VIZINA, MARTA MARTINKOVA, STANISLAV HORAČEK, DIANA PORUBSKA, MARIAN FENDEK & MIRIAM FENDEKOVA
- Do large-scale models capture reported drought events?
MARJOLEIN H.J. VAN HUIJGEVOORT, HENNY A.J. VAN LANEN, ADRIAAN J. TEULING, REMKO UIJLENHOET

16.00-17.00 Session 3B: Water resources and prospective scenarios

- Assessing the capacity to meet irrigation water needs for viticulture under climate variability in the Chilean Andes
P. HUBLART, D. RUELLAND, A. DEZETTER & H. JOURDE
- Present-day surface and subsurface water resources of European Russia: conditions, use and forecast
R. DZHAMALOV, N. FROLOVA, M. KIRIEVA & E. RETS
- La prospective territoriale, un outil de réflexion sur la gestion de l'eau du bassin de la Durance en 2050
R. SAMIE, Y. ARAMA, H. BOUSCASSE & E. SAUQUET

17.20-18.30 Session 4: Posters

Wednesday, October 8th, 2014

09.00-10.20 Session 5A: Trends in hydrological regimes and extremes

- Impact of land-use change on the hydrology of North Lao PDR watersheds
EMMANUEL MOUCHE, FRANCOIS MOUSSU, CLAUDE MUGLER, OLIVIER RIBOLZI, CHRISTIAN VALENTIN, OLOTH SENGTAHEVANGHOUNG & GUILLAUME LACOMBE
- Assessment of wildfire impact on hydrological extremes in eastern Siberia
LYUDMILA LEBEDEVA & OLGA SEMENOVA, NINA VOLKOVA
- The correlation between variations of climatic factors and zonal runoff of mountain rivers
MIKHAIL BOLGOV & MARINA TRUBETSKOVA
- Linking variations in large-scale climatic circulation and high groundwater levels in southern England
DAVID A. LAVERS, DAVID M. HANNAH & CHRIS BRADLEY

09.00-10.20 Session 5B: Water resources and prospective scenarios

- Modifications des températures et des précipitations sur le Bani, un sous-bassin du fleuve Niger
JEAN-EMMANUEL PATUREL & MALICKI ZOROM
- Climate change and debris flow: hazards maps in Matucana village under IPCC scenarios

JUAN W. CABRERA CABRERA & LEONARDO F. CASTILLO NAVARRO

- A reconnaissance study of water and carbon fluxes in a tropical watershed of Peninsular Malaysia: stable isotope constraints

MUHAMMAD I.SYAKIR, KERN.Y.LEE, IAN D. CLARK, JAN VEIZER

- Characterizing infiltration of a tropical watershed from ALOSPALSAR data using the Green-Ampt infiltration model

NOR LIYANA MOHAMMAD KHAN, MUHAMAD ASKARI & AB. LATIF IBRAHIM

10.20-11.00 Coffee break

11.00-12.20 Session 6A: Trends in hydrological regimes and extremes

- Rainfall Regime Evolution and Drought Forecasting in Eastern Algeria

MOHAMED MEDDI & ABDELWAHAB RAHMOUNI

- Up-to-date climate forced seasonal flood changes (the case study for the European part of Russia)

NATALIA FROLOVA, MARIA KIREEVA, DMITRY NESTERENKO, SVETLANA AGAFONOVA & PAVEL TERSKY

- Improvement of Reservoir Operation by Hybrid Optimization Algorithm: Case Study of Huong Dien Reservoir, Vietnam

VAN HOA HO & JOONG HOON KIM

- Optimal reservoir operation strategy for balancing ecosystem and human needs

FI-JOHN CHANG, WEN-PING TSAI, YU-CHUNG WANG, PIN-AN CHEN, LI-CHIU CHANG, ALEXANDRA COYNEL & GEORGES VACHAUD

11.00-12.20 Session 6B: Water resources and prospective scenarios

- Projected climate change impacts on water resources in Northern Morocco with an ensemble of regional climate models

Y. TRAMBLAY, D. RUELLAND, R. BOUAICHA, E. SERVAT

- Conceptual model of Abidjan Continental Terminal aquifer

AUGUSTE K. KOUASSI, FRANCIS W. KOUASSI, JULES O. M. MANGOUA & ISSIAKA SAVANE

- Characterization and evaluation of the confined limestone aquifer in Kuwait

FAWZIA M. AL-RUWAIH

- Etude géochimique et isotopique d'un aquifère phréatique côtier anthropisé : Nappe de Oussja-Ghar El Melah (Tunisie)

SAFOUAN BEN AMMAR, JEAN-DENIS TAUPIN, KAMEL ZOUARI, MOHAMED KHOUATMIA & MOHAMED BEN ASSI

12.20-14.00 Lunch break

14.00-15.20 Session 7A: Trends in hydrological regimes and extremes

- Recent trends in monthly temperature and precipitation in Europe

IRENE B.NILSEN, ANNE K. FLEIG, LENA M. TALLAKSEN & HEGE HISDAL

- Large-scale climate control on lake inflow in the Waitaki basin, New Zealand

DANIEL G. KINGSTON, CLARE S. WEBSTER & PASCAL SIRGUEY

- Sensitivity analysis of hydrological modelling to climate forcing in a semi-arid mountainous catchment

D. RUELLAND, A. DEZETTER & P. HUBLART

- Prediction of water resources in the Chao Phraya River Basin, Thailand

SUPATTANA WICHAKUL, YASUTO TACHIKAWA, MICHIHARU SHIIBA & KAZUAKI YOROZU

14.00-15.20 Session 7B: Erosion and sediment transport processes and trends

- Using ¹³⁷Cs and ²¹⁰Pbex measurements to document erosion rates for different time windows in a small catchment in southern Italy

PAOLO PORTO & DESMOND E. WALLING

- Lessons from long-term monitoring of soil erosion in three Southeast Asian agricultural catchments undergoing rapid land use changes

C. VALENTIN, A. BOONSANER, J.L. JANEAU, P. JOUQUET, T. HENRY DES TUREAUX, S. HUON, K. LATSACHACK, Y. LE TROQUER, J.L. MAEGHT, D. ORANGE, PHAM DINH RINH, A. PIERRET, P. PODWOJEWSKI, O.RIBOLZI, A. DE ROUW, O.SENGAHEUANGHOUNG, N. SILVERA, H. ROBAINÉ, B. SOULILEUTH, W. THOTHONG, TRAN DUC TOAN, TRAN SYHAI

- Study of the relationship between sediment transport and rainfall extremes (and associated hydrological) in the watershed of the wadi Mina (northwest of Algeria)

F. HALLOUZ, M. MEDDI & G. MAHE

- “Blue-green” corridors as a tool for erosion and stream control in highly urbanized areas – case study of Belgrade city

RATKO RISTIĆ, BORISRADIĆ, GORAN TRIVAN & IVAN MALUŠEVIĆ

15.20-16.00 Coffee break

16.00-17.00 Session 8: Trends in hydrological regimes and extremes

- Modelling runoff and its components in Himalayan Basins
HONG LI, STEIN BELDRING, CHONG-YU XU & SHARAD K. JAIN
- Statistical analysis of river discharge projected using the MRI-AGCM3.2S dataset in Indochina Peninsula
D. T. DUONG, Y. TACHIKAWA, M. SHIIBA & K. YOROZU
- Extreme precipitation events and related impacts in Western Iberia
MARGARIDA L. R. LIBERATO & RICARDO M. TRIGO
- Unidirectional trends in rainfall and temperature of Bangladesh
SHAMSUDDIN SHAHID, XIAO-JUN WANG & SOBRI B. HARUN

17.00-18.00 Session 9: Posters

Thursday, October 9th, 2014

Side Events

Aquarium Guided Tour

Friday, October 10th, 2014

09.00-10.20 Session 10A: Hydrological databases: how to cope with future questions

- Ensuring hydrometric data are fit-for-purpose through a national Service Level Agreement
KATIE MUCHAN & HARRY DIXON
- Future Flows: a dataset of climate, river flow and groundwater levels for climate change impact studies in Great Britain
C. PRUDHOMME, C. JACKSON, T. HAXTON, S. CROOKS, S. DADSON, D. MORRIS, J. WILLIAMSON, A. BARKWITH, J. KELVIN, J. MACKAY, L. WANG, G. GOODSSELL, L. BOELEEE, H. DAVIES, G. BUYS, T. LAFON, A. YOUNG, G. WATTS
- Architecture of environmental information systems applied to scientific observatories: examples of Carnoulès and MEDYCYSS observatories
J.F. BOYER, E. SERVAT, C. CASIOT & H. JOURDE
- Cooperative WebGIS interactive information systems for water resources data management
CHARALAMPOS SKOULIKARIS, JACQUES GANOULIS, NIKOLAOS KARAPETSAS, FOTIS KATSOGIANNOS & GEORGIOS ZALIDIS

09.00-10.20 Session 10B: Regional observational-hydrological modelling frameworks

- Connecting streamflow and atmospheric conditions in Europe: state-of-the-art review and future directions
DAVID M. HANNAH, ANNE K. FLEIG, DANIEL G. KINGSTON, JAMES H. STAGGE, DONNA WILSON
- Water budget in the Amazon basin and impacts on flood modeling
AUGUSTO GETIRANA, SUJAY KUMAR, CHRISTA PETERS-LIDARD & KRISTI ARSENAULT
- Measurement, modelling and analysis of hydrological and hydrogeological processes and trends in a marsh area
BRANKA BRACIC ZELEZNIK & LIDIJA GLOBEVNIK
- From drought to floods in 2012: operations and early warning services in the UK
CHARLIE PILLING, DAVID PRICE, ADRIAN WYNN, ANDREW LANE, STEVEN J. COLE, ROBERT J. MOORE, TIMOTHY ALDRIDGE

10.20-11.00 Coffee break

11.00-12.20 Session 11A: Hydrological databases: how to cope with future questions

- Towards a pan-European assessment of low flow indices
CLAIRE LANG DELUS, GREGOR LAAHA, DANIEL KOFFLER, KERSTIN STAHL, HEGE HISDAL, CHRISTEL PRUDHOMME, MIRIAM FENDEKOVA, WOJCIECH JAKUBOWSKI
- Selecting an optimal climatic dataset for integrated modelling of the Ebro hydrosystem
A. DEZETTER, J. FABRE, D. RUELLAND, E. SERVAT
- Growing season length and rainfall extremes analysis in Malawi
COSMO NGONGONDO, LENA M. TALLAKSEN, CHONG-YU XU
- Standardized precipitation-evapotranspiration index (SPEI): Sensitivity to potential evapotranspiration model and parameters
JAMES H. STAGGE, LENA M. TALLAKSEN, CHONG-YU XU, & HENNY A.J. VAN LANEN

11.00-12.20 Session 11B: Regional observational-hydrological modelling frameworks

- Les lacs collinaires en Tunisie : Technique de conservation des eaux et du sol
HAMADI HABAIEB, TAOUFIK HERMASSI, SLAHEDDINE GHEDAOU, ISSAM ANATAR
- Application of hydrological model to evaluate the potential hydro energy in a mountainous small river basin of Japan
KAZUMASA FUJIMURA, MASAHIRO MURAKAMI, YOSHIHIKO ISERI & SHINJIRO KANAE
- Influence des activités anthropiques sur le régime hydrologique du fleuve Logone de 1960 à 2000
N.T. WAI, B.N. NGATCHA, G. MAHE, J.C DOUMNANG, F. DELCLAUX, G. NGOLONA & P. GENTHON
- Estimation of runoff curve numbers using a physically-based approach of preferential flow modelling
PORI DAS, AMINUL ISLAM, SUBASHISA DUTTA, AMIT K. DUBEY & RUPAK SARKAR

12.20-14.00 Lunch break

14.00-15.20 Session 12A: Hydrological databases: how to cope with future questions

- Minimizing geopolitically ungauged catchment area of transboundary river basins to support disaster risk reduction
KELLY M. KIBLER
- Probability distribution of rainfall in the Bia watershed: contribution of Markov chains
MELEDJE N'DIAYE HERMANN, KOUASSI KOUAKOU LAZARE, NGO YAO ALEXIS, SAVANE ISSIAKA
- Assessment of rainfall observed by weather radar and its effect on hydrological simulation performance
NGHI VU VAN, NHUNG TRAN THI & QUYET LE DINH
- Predicting soil water retention characteristics for Vietnam Mekong Delta soils
NGUYEN M. PHUONG, LE V. KHOA, WIM CORNELIS

14.00-15.20 Session 12B: Changes in ecological flows and coastal ecohydrology

- Hydrological regime of a tidal system in the Red River Delta, Northern Vietnam
LUU THI NGUYET MINH, DIDIER ORANGE, TRAN HONG THAI, JOSETTE GARNIER, LE LAN ANH, TRINH ANH DUC
- Measuring impact of water management on ecological health of a river: Poudre River, Colorado, USA
ROBERT T. MILHOUS
- Impact of climate change on aquatic ecosystems along the Asse river network
THOMAS CIPRIANI, FRANCOIS TILMANT, FLORA BRANGER, ERIC SAUQUET & THIBAUT DATRY
- Ecological flow for integrated planning of small hydropower plants: a case study from Greece
THOMAS PATSIALIS, CHARALAMPOS SKOULIKARIS & JACQUES GANOULIS

15.20-16.00 Coffee break

16.00-16.30 Closing ceremony

ANNEX 2: FRIEND-Water 2014 Provisional list of posters

- The analysis of functioning the maximal and annual runoff in different climates
ASABINA, E. (Elena)
- Les modèles mathématiques : outils de gestion des systèmes aquifères. Application a la nappe alluviale de Maghnia (NW Algérie)
BABA-HAMED, K. (Kamila), BOUANANI ABDERRAZAK, AZIZ HADJIRA, MEGUENNI TANI MERIEM
- Life safety criteria for flood protection standards
BECKERS, J. V. L. (Joost), K. M. DE BRUIJN (Karin), D. RIEDSTRA (Durk)
- Réutilisation des bouteilles en plastique pour l'irrigation des palmiers dattiers
BENLARBI, D. (Dalila), SAGGAI (Sofiane)
- The analysis of the spatial and temporal changes in the low flow characteristics of the Volga Basin Rivers in a changing climate
BOLGOV M.V. (Mikhail), FILIPPOVA I.A., TRUBETSKOVA M.D.
- Bayesian decision for runoff evaluation in non-stationary conditions
BOLGOV, M. (Mikhail), E. KOROBKINA (Elena), I. FILIPPOVA (Irina)
- Estimation et modélisation des transports solides en suspension dans l'Oued Boumessaoud (Tafna- NW algérien)
BOUANANI, A. (Abderrazk), A. BOUGUERRA SID (Ahmed), K. BABA-HAMED (Kamila)
- Mekong-HYCOS, an improvement of monitoring the Mekong River
BRICQUET, J.P. (Jean-Pierre), S. KHEM, F. SEEBACHER, E. JENSEN
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