DRAFT Programme

(version of February 23rd, 2018)

Side Event

about

Water scarcity in semi-arid environments of our Earth: main challenges and recent developments for risk mitigation

- application examples, e.g. seasonal prediction of water resources; estimation of sediment loads and water quality; efficient irrigation and water use; water supply

jointly organised by

Water Science Alliance e.V.

featuring

Empresa Brasileira de Pesquisa Agropecuária (EMBRAPA), Brazil
Fundação Cearense de Meteorologia e Recursos Hídricos (FUNCEME), Brazil
Instituto Federal do Ceará, (IFCE) Brazil
Universidade do Estado do Rio de Janeiro (UERJ), Brazil
Universidade Federal do Ceará (UFC), Brazil

and

Karlsruhe Institute of Technology (KIT), Campus Alpin, Garmisch, Germany
United Nations University (UNU), Inst. for Environment and Human Security, Dresden, Germany
University of Applied Sciences Köln, (TH Köln), Germany
University of Potsdam (UP), Germany
University of Stuttgart (US), Germany

Date: March 22, 17h – 20h

Room: t.b.d.

Programme (draft)

addressing water managers and water scientists ref. dryland regions and water scarcity

Contributions of TH Köln – ITT & partners

(1) Research and Education for Water Security *L. Ribbe, TH Köln*

(2) Drought Risk Assessment in the Paraiba do Sul Basin, Brazil *A. Nauditt, TH Köln*

(3) Water Security and Water Governance in the State of Rio de Janeiro *Rosa Formiga, UERJ*

(4) Drought Risk Management in the Jaguaribe Basin, Brazil *Assis da Souza Filho, UFC*

Contributions of UNU – EHS & partners

(5) Improving the water footprint of sugarcane-based energy production - technologies and strategies to increase water use efficiency on dryland and irrigated sugarcane
V.B. Bufon, EMBRAPA, Z. Sebesvari, UNU-EHS, A. Schomberg & M. Flörke, Univ. of Kassel

Contributions of University of Potsdam & partners

(6) Regionalization of reservoir-shape information in large dryland regions
D. Medeiros, Instituto Federal do Ceará, IFCE, T. Francke, University of Potsdam

(7) Monitoring and visualizing real-time regional reservoir water storage with radar imagery
Z.M. Delgado, University of Potsdam

(8) Demonstration of an operational hydro-meteorological forecasting system for dryland conditions in NE-Brazil
E. Martins, Fundação Cearense de Meteorologia e Recursos Hídricos – FUNCEME, Fortaleza

(9) WASA-SED: A semi-distributed hydro-sedimentological model-system for semi-arid regions
T. Francke, Z.M. Delgado & A. Bronstert, University of Potsdam

Contributions of University of Stuttgart & partners

(10) Modular sanitation concepts for a sustainable water use and reuse in water scarce regions
Manuel Krauß, University of Stuttgart

Contributions of KIT, Campus Alpine & partners

(11) Seasonal predictions for the water management: from global data to regional decision support

(12) Water management in semi-arid regions using seasonal predictions
C. Lorenz, Karlsruhe Institute of Technology

Contacts for further information

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(convenor of the side event)

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