International Hydrological Programme PHASE VIII, 2014-2021



Technical Session on Science and Technology to Advance DRR on Water Activating International Initiatives

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Secretary of the International Hydrological Programme (IHP), UNESCO

Science
UNESCO-IHP
Policy

- Nearly 80% of the world's population is exposed to high levels of threat to water security



- IPCC's Fifth Assessment Report on Impacts, Adaptation and Vulnerability (AR5) 2014: Water Security is at risk

IPCC's Fifth Assessment Report WG-2 on Impacts, Adaptation and Vulnerability (AR5) 2014:

Risks and Challenges



IHP-VIII (2014-2021):

Water security: Responses to local, regional and global challenges

IHP contributing to SDGs mainly:

IHP-VIII Responses: 6 Themes, 3 Axes 2014-2021

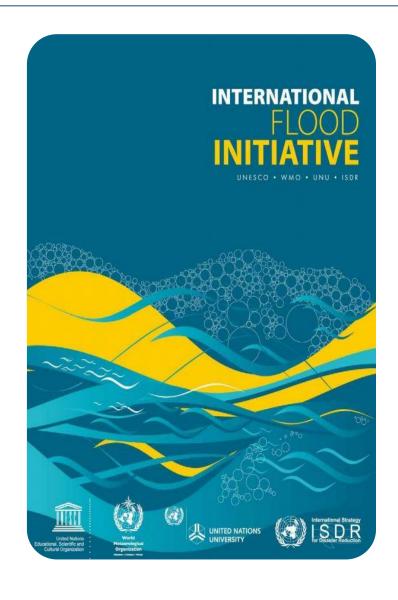


Improve knowledge and innovation to address water security challenges



International Flood Initiative (IFI)





- Develops capacity building to better understand and respond to floods hazards while taking advantage of their benefits
- Focus on research, information networking, education and training to empower communities





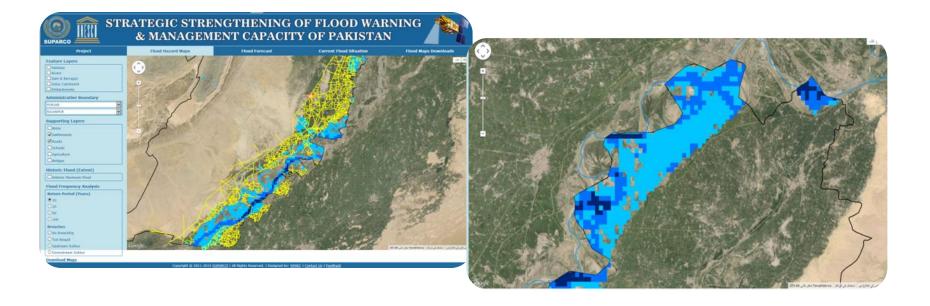




Case Studies:

Pakistan Flood Project / Namibia and Benin Project





- Flood Hazard Mapping covering lower Indus Basin in Pakistan:
- Maps with layers considering Settlements, Roads, Schools, Agriculture etc.

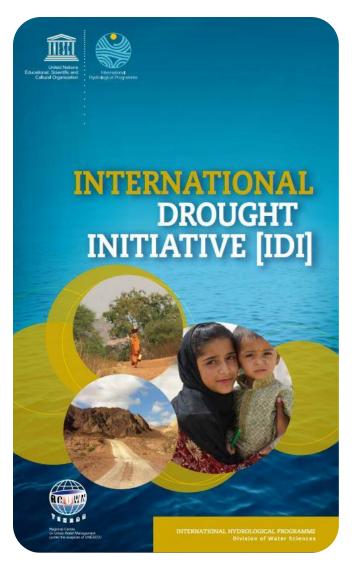
International Drought Initiative (IDI)



Platform of global networking and knowledge sharing between

international entities:

- Surveys drought management;
- collects information;
- helps affected countries;
- develops capacity building;
- strengthens public participation and,
- promotes regional and international cooperation on drought issues.



Case Studies: Africa and LAC Droughts Monitors

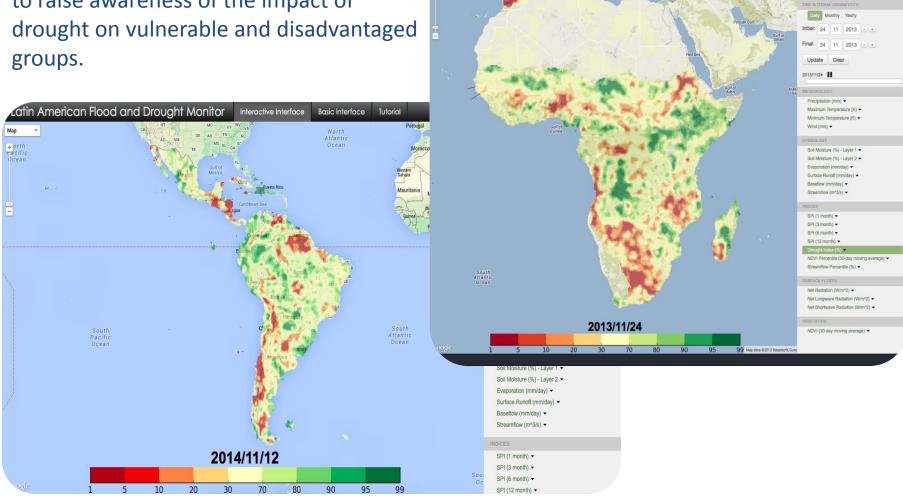


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African Flood and Drought Monitor

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 Strengthen the capacity of African and LAC countries for near real-time monitoring and seasonal forecasting; to raise awareness of the impact of drought on vulnerable and disadvantaged groups.

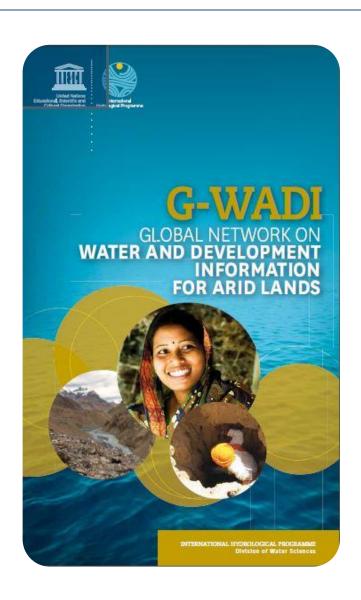


African Flood and Drought Mon.

African Flood and Drouaht Monitor

Global Network on Water and Development Information for Arid Lands: G-WADI

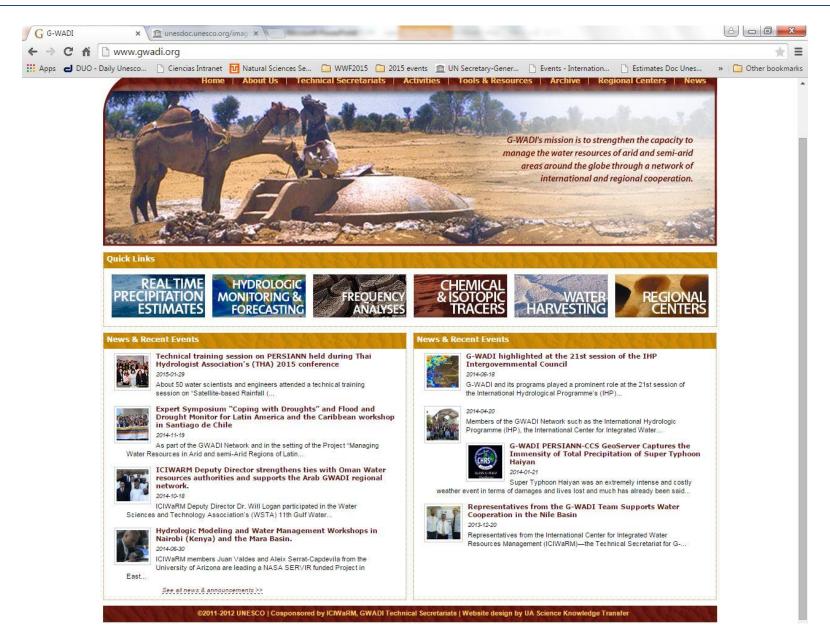




- Improved understanding of the characteristics of hydrological systems and water management needs in arid areas
- Capacity building of individuals and institutions
- Broad dissemination of information to the user community and the public
- Exchange of experience
- Promoting integrated basin management and the development and use of appropriate decision support tools

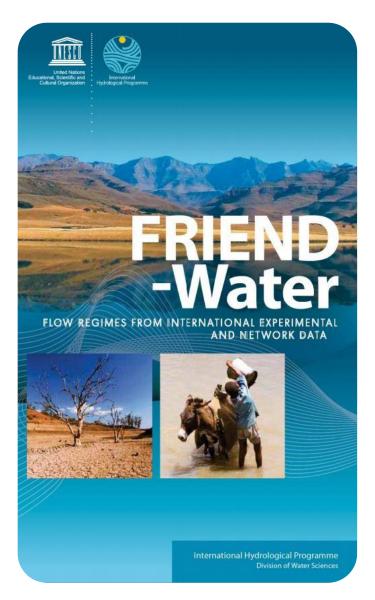
G-WADI Website: http://www.gwadi.org/

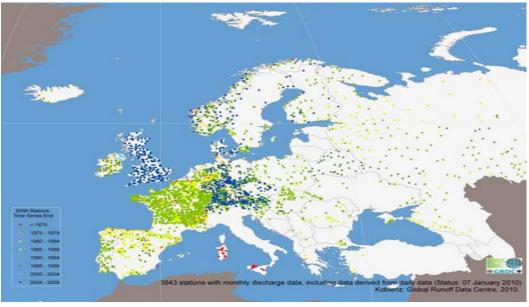




FRIEND: Flow Regimes from International Experimental and Network Data - Water







A network of scientists and water managers:

- Regional water resources
- Water-related disasters
- Global change; water cycle
- Water education and capacity building

Snow and Ice Networks





Regional Workshop: Assessment of Snow-Glacier and Water Resources in Asia 28-30 November 2006, Almaty, Kazakhstan



Working Group on Snow, Ice and Glaciers (GTNH)-LAC

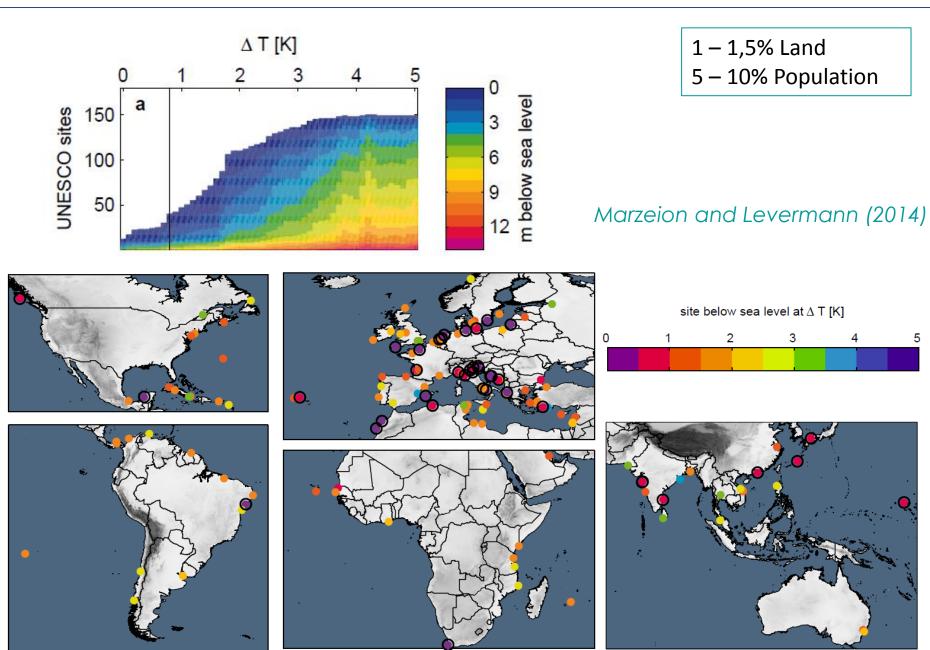
High Level Panel session: Climate Change Impacts on Water Resources and Adaptation policies in Mountainous regions
13-November 2013, 37th General Conference





UNESCO Cultural Heritage Sites





UNESCO- IHP main activities during COP21





December

Launching of the conmemorative Book 50 years of UNESCO Water Programmes 2 December, 2015

Water and Climate Day:

7 activities

UNESCO's Pavilion, 2 December, COP21



Håll-Bar: "Implementing the Paris Agenda; Water as the summoning power?" 8 December 2015

Outreach Event:

"Raising awareness on
Climate Change: Key
findings of the IPCC
5th Assessment Report
(AR5)"

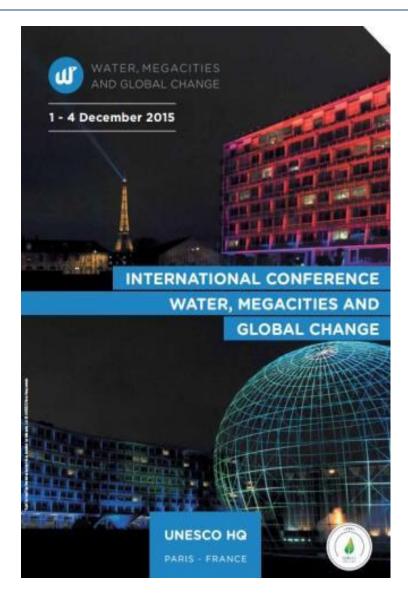
7 December, 2015

UN-WATER Side
Event: "The pivotal
role of water in
climate change
adaptation and
mitigation"
7 December 2015,
COP21

International Conference on Water, megacities and global change

1-4 December UNESCO HQ - Paris - France





- Organized by UNESCO-IHP in partnership with ARCEAU-IdF, the association of water professionals, researchers, decision-makers and elected officials from the Paris metropolitan area.
- 7 Themes around vulnerability, resilience and climate change
- Theoretical aspects, case studies and policies (130 authors from 38 countries)
- Scientist, policy makers, public and private wauter utilities, local and regional governments, NGOs, etc
- An initiative with the civil society, under the leadership of IHP, for the creation of an international network to foster cooperation between megacities will be launched.

A declaration has been prepared that will to be conveyed to the main stakeholders of the COP21.

Project Achievements - Publications





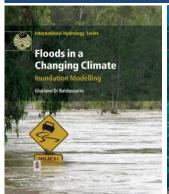


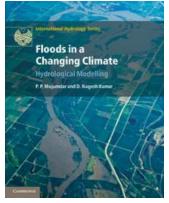




WWAP

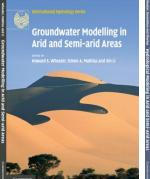
Cambridge Press

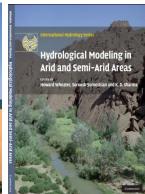












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Thank you!

www.unesco.org/water