



Sharon Burke <sharon@ecospherics.org>

WPS-AFRICOM Tool Demo

1 message

Elizabeth Saccoccia <Elizabeth.Saccoccia@wri.org>

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To: Samantha Kuzma <Samantha.Kuzma@wri.org>, Charles Iceland <Charles.Iceland@wri.org>, Sharon Burke <sharon@ecospherics.org>, "McCook, Christopher J CDR USN AFRICOM ACCC-CAG (USA)" <christopher.j.mccook.mil@mail.mil>, "Muckenthaler, Paul L (Muck) CIV AFRICOM ACJ5 (USA)" <paul.l.muckenthaler.civ@mail.mil>, "Patrick, Cheryl S CIV AFRICOM ACJ3 (USA)" <cheryl.s.patrick.civ@mail.mil>

Hello all,

We are looking forward to demoing and discussing a few of our tools relevant to climate security. All of our tools are open and free to use.

The most relevant is the Water Peace and Security Tool and Global Water Watch (funded by WPS):

- The [Water, Peace and Security \(WPS\) Partnership](#) develops innovative tools and services that help local stakeholders identify, understand and address environment-related security risks. The WPS Global Early Warning tool predicts water-related conflict, and provides updated information and recommendations in quarterly updates. The knowledge WPS generates is used in participatory analysis and capacity building, in support of timely, informed, and inclusive action in regions prone to environment-related conflict, such as [Mali](#), [Iraq](#), [Ethiopia](#), and [Kenya](#).
- Global Water Watch, launching in 2023, will provide information on over 70,000 global reservoirs and major river systems, derived using satellite data, machine learning, and cloud computing. The platform will use Earth observation data and artificial intelligence algorithms to map dams, produce near-real-time, high-resolution spatiotemporal information on the amount of water stored in reservoirs, and the water level and flow in major river systems. The [API to access data](#) is public and I can share the website's password if there is interest in viewing early and user testing. We're planning to launch at the UN Water Conference in March 2023.

I'm also sharing other tools we manage that could be relevant to water security:

- The [Aqueduct Water Risk Atlas](#) maps and analyzes current and future water risks around the world using PCR-GLOBWB, a global hydrology and water resources model. The database and online tool enable comparison of water-related risks across large geographies, states, and countries to identify regions or assets deserving of closer attention. It has data for the present, 2030, and 2040. Future projections out to 2100 updated with data from CMIP6 will be available in early 2023.
- [Aqueduct Food](#) identifies current and future water risks to agriculture and food security. WRI's Aqueduct water risk maps are cross-referenced with data from IFPRI, showing global crop area along with data on food production, demand, trade, prices, and hunger for every country in the world. By providing users with an understanding of how population growth and climate change will affect global food systems, Aqueduct Food aims to enable proactive management of risks to food security.
- [Aqueduct Floods](#) visualizes and quantifies global river flood and coastal storm surge risks. The tool estimates potential impacts of floods for every state, country, and major river basin in the world. Impacts can be measured in terms of affected population, affected GDP, or urban damage for the present day or future decades, given scenarios for climate change and socioeconomic development. The tool enables a cost-benefit analysis that integrates these flood risk with flood protection systems.
- [WRI developed a model based on Aqueduct](#) to assess Ethiopia's water supply and sectoral water demand as well as current and projected water risk based on growth and climate change. We are enhancing institutional capacity within the Ministry of Water, Irrigation and Energy and the Planning and Development Commission to assess and manage rising water and climate constraints to growth and development and integrate these considerations into development planning processes.

Organization Overview if helpful: The [World Resources Institute \(WRI\)](#) is a global research organization that works with governments, businesses, multilateral institutions, and civil society groups to develop practical solutions that improve people's lives and ensure nature can thrive. We organize our work around seven global challenges: Food, Forests, Water, Energy, Climate, the Ocean and Cities.

Best,

Liz

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