**Future Collaboration of the**

**International Center for Integrated Water Resources Management (ICIWaRM) with**

***‘Climate Services for improved Water Resources Management in vulnerable regions to climate change in Latin America and the Caribbean’* and**

***‘Addressing Water Security:***

***Climate Impacts & Adaptation Responses in Africa, Asia & LAC’***

The International Center for Integrated Water Resources Management (ICIWaRM) is a “category 2 center”, under the auspices of UNESCO. It is hosted by the US Army Corps of Engineers’ Institute for Water Resources near Washington, DC, USA. ICIWaRM’s focus is on practical science and technology that can be readily transferred, in collaboration with UNESCO IHP programs and sister centers. ICIWaRM is also the “Technical Secretariat” of IHP’s Global Network on Water and Information for Arid Lands (G-WADI).

Together, ICIWaRM and the G-WADI program have collaborated closely and productively with the MWAR-LAC program, and we have every intention and desire to continue with future FUST-funded, and related IHP programs. Of primary interest to two key themes of this meeting – water security and climate change adaptation – may be the following:

* *The Latin American Flood and Drought Monitor.* Princeton University created this product at the request of G-WADI, and ICIWaRM contributed financial support. We anticipate continued participation and progress in creating applications of the product—for example, with local calibration and at more detailed resolution to enable a wider variety of uses.
* Satellite-based precipitation methods for water resources management. The *G-WADI PERSIANN-CCS GeoServer* harnesses remotely sensed information to observe, monitor and analyze extreme weather events in real-time, globally, with open-source software and in fairly high-resolution (~4km). Developed by UC-Irvine, it helps countries plan future multi-use water supply and provides early warning for floods and droughts in national and transboundary river basins.
* *Climate Risk Informed Decision Analysis* (CRIDA) to address Climate Change Vulnerabilities with managers and policy makers to achieve water security through robust water resources planning under climate uncertainty.
* *The use of geochemical and isotopic tracers* for (semi-)arid regions sustainable water resources management. Tracers can help estimate ages, and current and past recharge rates, of groundwater to sustainably utilize the resource while avoiding overexploitation.
* *Regional frequency analysis* – G-WADI has developed several statistical tools for historical precipitation and stream gaging data, in collaboration with Flemish, EU and US-based partners. These help answer questions managers or decision-makers may have about how long of a future drought it makes sense to prepare for, or how long a current drought is likely to persist.
* G-WADI is a *network-of-networks* of water professionals who share data, exchange experiences, and build capacity of individuals and institutions in their region. We are always happy to collaborate with others sharing such goals.
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