



Title: The use of data and science to advance the goals of global water sustainability

The GEO Global Water Sustainability (GEOGLOWS) program facilitates the use of Earth observation assets to contribute to mitigating water shortages, water excesses, degraded water quality and other issues arising from population growth, climate change and industrial development. GEOGLOWS is developing knowledge to support water management by focusing on the analysis and applications of Essential Water Variables (EWVs). This knowledge can be used in applications related to minimizing basin and regional risk; informing policies to enhance the sustainability of water resources, and supporting capacity building of individuals and institutions through regional programs and alliances. GEOGLOWS strives to enhance observational programs, implement systems for data and product dissemination, innovate ways to make more effective use of data through applications and research, and promote and implement free and open data exchange and GEO principles of good data management. GEOGLOWS leverages partnerships within and outside the GEO community including those within the GEO Regional Initiatives, and through projects in the Americas (AmeriGEOSS), Africa (AfriGEOSS) and Asia (AO GEOSS) for its regional outreach.

This session will familiarize participants with the work of GEOGLOWS and will bring together experts who can contribute to the program. To this end, papers are invited that address different science and data issues that could advance the work and interests of GEOGLOWS. This includes projects where Earth observations are applied in the USA and around the world.

Session Coordinators: Angelica Gutierrez-Magness (NOAA)

Others: Bradley Doorn (NASA)

Richard Lawford (Morgan State University)