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Projects

Water Supply of Ancient Cities

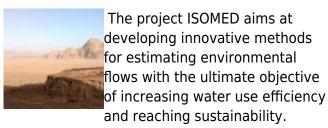


Water and cult of the Heraion: German Research Foundation (DFG) 2016-2019, project in cooperation with DAI (German Archeological Institute) on the paleo- und modern hydrology and

The site is affected by recurrent inundation and flooding. The hydrological processes and water balance of the site is established in order to better understand the ancient water supply system, its vulnerability to droughts and floods and in order to establish the causes and mitigate meteo-climatic conditions of the Mediterranean the impact of flooding at the modern site. A bibliography of studies on this archeological site context. with special reference to the hydrological can be found at our bibsonomy group

- groundwater model of Heraion site
- coupling to hydrological model
- scenario analysis of ancient droughts and floods
- concept to reduce flooding

ISOMED



Sustainability is defined as resilient balance of water resources renewal and uses within hydrological systems under anthropogenic pressure at various scales.

- sites in Cyprus and Jordan
- novel recharge estimation methods
- participative soil water monitoring
- water flow accounting

MEDSAL



: The MEDSAL Project aims to secure the availability and quality of groundwater reserves in Mediterranean coastal areas, which are amongst the most vulnerable regions in the world to

hydrogeology of the ancient temple of Hera site. water scarcity and quality degradation. This will be addressed by providing a novel holistic approach, towards the sustainable management of coastal aguifers, which are affected by increased (single or multi-induced) groundwater salinization risk, especially under the variable and the rapidly changing socio-economic

- Deliver new tools for the identification of salinization sources and processes
- Derive, build and integrate coherent and robust datasets of critical parameters related to GWS
- Couple physical-based models (hydrogeological and hydrogeochemical), environmental isotopes, advanced geostatistical methods and artificial intelligence (AI) techniques (shallow and deep learning) to develop novel approaches and methods in the simulation and forecasting of GWS

Completed Projects

- Integrated Water Management of the Omaruru Basin: Project with SLR to develop an integrated water management model of the Omaruru Basin in Namibia
- Water Quality Accounts for the Swakop Basin: Project with SLR to develop a water quality accounting system case study in the Swakop Basin / Namibia.
- Water Accounts: Methodology for Developping Water Accounts Pilot and Capacity Building.
- SEA: Strategic Planning of Water Resources of the Erongo Region. BIWAC, GSN, DWA, BGR. October 2010 until March 2011.
- WADE
- ITER
- Guarani-Aquifer Project
- Groundwater Resources Re-Evaluation of Cyprus
- WAVES
- GREM Groundwater Resources in the Eastern Mediterranean

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