

Monitoring, Mapping and Assessing the World's Groundwater



International Groundwater Resources Assessment Centre





MONITORING, MAPPING & ASSESSING THE WORLD'S GROUNDWATER

IGRAC (International Groundwater Resource Assessment Centre) facilitates and promotes international sharing of information and knowledge required for sustainable groundwater resources development and management worldwide.

IGRAC is UNESCO Global Groundwater Centre, it also works under the auspices of WMO, it is a corporate IAH partner and it is financially supported by the Government of the Netherlands.

IGRAC is founded to support sustainable management of groundwater resources, promote the role of groundwater in integrated water resources planning and to elucidate the impact of groundwater on ecosystems.

Since 2003, IGRAC provides an independent content and process support, focusing particularly on transboundary aquifer assessment and groundwater monitoring. Through its activities, IGRAC is expanding its interest to other groundwater-related topics, such as governance, training and climate change adaptation.



GROUNDWATER ASSESSMENT

These activities encompass country-wide, transboundary and thematic assessments. Thematic assessments, dedicated to selected groundwater issues, are conducted on regional/global scale.



GROUNDWATER MONITORING

Global Groundwater Monitoring Network (GGMN) programme is initiated by IGRAC to improve quality and accessibility of groundwater monitoring information and hence the knowledge on the state of groundwater resources.



TRANSBOUNDARY GROUNDWATER

Political, institutional, socio-economic, cultural and other differences among countries make the assessment and management of internationally shared aquifers challenging. Transboundary aquifer assessment is the main IGRAC activity.



GROUNDWATER GOVERNANCE

Groundwater Governance is an emerging issue with an emerging, global community of practice. IGRAC is highly active in this community through its project work and internal initiatives.



TRAINING & CAPACITY BUILDING

By organizing regional workshops or developing training material, IGRAC strives to improve capacity for groundwater assessment and monitoring on a global scale.



INF. & KNOWLEDGE MANAGEMENT

IGRAC facilitates and promotes worldwide exchange of groundwater knowledge and information to improve groundwater management.



MANAGED AQUIFER RECHARGE

Managed Aquifer Recharge (MAR) has the potential to increase water availability by generating water supplies alternative sources.



SMALL ISLAND DEVELOPING STATES

Small Island Developing States (SIDS) have limited options developing their freshwater resources and are vulnerable to climate change.

GLOBAL GROUNDWATER INFORMATION SYSTEM

The Global Groundwater Information System (GGIS) is an interactive, web-based portal to groundwater-related information and knowledge. The main purpose of the system is to assist in collection and analysis of information on groundwater resources and its sharing among water experts, decision makers and general public.

The GGIS provides groundwater information per country and per transboundary aquifer. It leads the user from global overview of aggregated information towards information briefs, in-depth aquifer assessments and related information sources in the Meta-Information Module. Additionally, the GGIS contains the Global Groundwater Monitoring Network (GGMN) module that is a participative, web-based network of networks, set up to improve quality and accessibility of groundwater monitoring information.

CURRENT PROJECTS





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