## Models

## Multi-Compartment Model (MCM)

Mixing and compartment models are used for hydrograph separation, end member mixing analysis and water quality

for flow system analysis that has been developed by Eilon Adar and Christoph Kuells.

## Geohydrological Model (GeM)

interface between hydrological and groundwater models. The basin-oriented approach to the recharge of alluvial aquifers and

to their management. It fills a gap between hydrological modeling of surface hydrology, runoff production, concentration and

aquifer is subdivided into compartments and the contributing sub-basins for each compartment are identified. The model describes and calculates indirect recharge, groundwater flow processes into, within, through and from the alluvial aguifer and handles water abstractions. Operational versions have been produced for the Kuiseb, Swakop and Omaruru rivers in Namibia. The model includes modules for abstraction of groundwater by farmers, mines and municipalities.

Secure Access to Sustainable Clean Water Resources

This model describes regional factors that control secure access to water resources. It is based on maps of climatological factors, studies. MCM is an inverse multi- hydrological topology, storage properties, socioend-member compartment model economic factors and engineered infrastructure.

## Surface-Groundwater Coupling

The model SuGR addresses the connection and feedbacks between surface hydrology and The Geohydrological Model is an groundwater hydrology. It has been developped for basins with strong surface-groundwater interaction. It includes baseflow generation, geohydrological model provides a indirect recharge and runoff-generationprocesses during floods in different climates. It includes modules for saturation-dependent runoff production and groundwater ridging. The model is integrated with groundwater abstraction by different users, managed artificial groundwater flow and management. The alluvial recharge or groundwater production schemes.

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