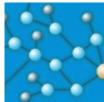
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Models

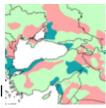
Multi-Compartment Model (MCM)



Mixing and compartment models are used for hydrograph separation, end member mixing analysis and water quality studies. MCM is an inverse multiend-member compartment model

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

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, hydrological topology, storage properties, socio-economic

factors and engineered infrastructure.

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 groundwater flow and management. The alluvial model is integrated with groundwater aquifer is subdivided into compartments and the abstraction by different users, managed artificial 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.

Surface-Groundwater Coupling

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

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