Shared aquifers are an important water resource for drinking water and irrigation. In continuation of the IAEA’s efforts to address water management issues in the African region, three aquifer systems shared by several countries in northern Africa are being investigated in collaboration with other international organizations. Isotope techniques are being employed to understand the dynamics of these aquifers systems for the sustainable management of water resources for socioeconomic development of the region. For the Nubian Aquifer System project, the UNDP/GEF has provided a $1 million grant for implementation by the IAEA.