Sensing New Water Resources
In Egypt from Space

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Proposed Development Corridor in Egypt

Aswan Sector

Evaluate the combined use of satellite and ground penetrating radar data to delineate the potential areas for groundwater accumulation in a desert area west of Aswan, Egypt.
Land/Water Resources NW of Aswan
RADARSAT-1 image of the study area

Calcureous Plateau

Gallaba Plain

W. Kubanyia
Watersheds surrounding Kom Ombo basin
Hill-shaded relief map (SRTM DEM)
Study sites visited during March 2011 field trip

Site 1: GPR measurements of a buried target (geometrically shaped)
Site 2: GPR measurements of buried faults (striking in various directions)
Site 3: Surveying agricultural fields and wells
(a) Optical image showing dunes; (b) Radar image showing faults
Horizontal Sand Sheet

Old Consolidated Deposits
Water Wells
Used for Irrigation

Drilled wells in the study area with water depths in meters
Thank you