In hard rock areas, groundwater exploration still remains a difficult task owing to the complex deformational histories of the wide range of lithological formations.

State-of-the-art geospatial technologies for imaging the earth and its subsurface are invaluable tools; especially when direct measurements are sparse or even impossible.

Geospatial technology with their advantages of spatial, spectral and temporal availability and manipulation of data covering large and inaccessible areas within a short time have become very handy tools in accessing, monitoring and conserving groundwater resources.

Sophisticated subsurface investigation techniques using seismic and electromagnetic waves can produce geological 'data maps'. This can potentially reveal reservoirs of water as well as geotechnical properties such as soil stiffness and depth or rock quality.

In hard rock terrain such as the Mamundiyar basin (India), interpretation of satellite data for delineation of lithological units, weathered zones, mapping of lineament density and their trends as well as intensity, are discriminatory features and form a valuable aid for the location of groundwater areas. The groundwater prospect map is a systematic effort and has been prepared using integrated approach of remote sensing and GIS.

This Integrated approach of remote sensing and GIS proved the possibility of deciphering of groundwater potential zones in hardrock terrain like Mamundiyar basin [1].

OMICS Publishing Group is a professional publisher for open access journals. OMICS Publishing Group provides variety website-translational journals for about 50 languages; Journal of Geophysics & Remote Sensing is one of them. Scholars, scientists and industrialists from different native languages can benefit from communication by using the flexibility and interactive nature of Journal of Geophysics & Remote Sensing.

Journal of Geophysics and Remote Sensing, is an open access journal provides an excellent platform for worldwide communication of technology. Through this platform, scholars, scientists and readers can easily exchange their knowledge, experiences and interests in the field of remote sensing and Geophysics. Hence all the eminent scholars, scientists as well as industrialists are most welcome to publish their novel research in our reputed journal, Journal of Geophysics & Remote Sensing.

Reference


*Corresponding author: Imran Ahmad Dar, Department of Industries and Earth Sciences, The Tamil University, India, E-mail: wonder_env@yahoo.com

Received November 20, 2012; Accepted November 26, 2012; Published December 02, 2012


Copyright: © 2012 Dar IA. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.