

Analysis of groundwater level differences in Ganges basin using geostatistical modeling

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■ **ABSTRACT** : India is a developing country, with the increase in the industrialization and urbanization burden on the water resources increasing day by day. The most common source for the water extraction is the groundwater. With the increasing demand of water, groundwater exploitation increases. As Ganges basin have many large industrial towns the problem of groundwater exploitation is more widen and the extent of groundwater exploitation varies considerably from one place to other place within basin. Thus, this studies is mainly focused towards the analysis of the spatial variation and mapping of groundwater level differences. Ganges basin is largest basin in India, thus Geostatistical methods are used to assess the depletion of groundwater level. This study is carried out to get the spatial information on extent of groundwater exploitation, it can help to make the policy for the use of water groundwater resources in a more judicial way to avoid more depletion of water level.

■ **KEY WORDS** : Geostatistical modeling, Groundwater fluctuation, Ganges basin, GIS

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