

September 2020

Publications

Krishan G, Ghosh, N C, Kumar C P, Sharma LM, **Yadav B K**, Kansal M L, Singh S, Verma S K, Prasad, G (2020) "Understanding stable isotope systematics of salinity affected groundwater in Mewat, Haryana, India" Journal of Earth System Science, 129, 109 (2020).

Verma, A, **Yadav, B K**, and Singh N. B. (2020) "Data on the assessment of Groundwater Quality in Gomti-Ganga alluvial plain of Northern India" Data in Brief, 30 (2020) doi.org/10.1016/j.dib.2020.105660

Krishan G, Prasad G, Anjali A, Kumar C P, Patidar N, **Yadav B K**, Kansal M L, Singh S, Sharma LM, A Bradley A, Verma S K (2020) "Identifying the seasonal variability in the source of groundwater salinization using deuterium excess- a case study from Mewat, Haryana, India" Journal of Hydrology: Regional Studies, 31, 100724.

Kumar, Vikram, and Santosh Paramanik. "Application of high-frequency spring discharge data: a case study of Mathamali spring rejuvenation in Garhwal Himalaya." Water Supply (2020).

Project

An efficient aquifer storage method for enhanced recovery of recharged freshwater in saline regions" sanctioned by DST of 59.76 lacs. (PI: Prof. Brijesh Kumar Yadav)

The conventional recharged rainwater into the subsurface makes a thin layer of fresh water over the saline groundwater table of coastal and salt-affected regions due to the triggering of density variable flow. This layer of recharged freshwater is then mixed with the underlying saltwater quickly, making the recharged freshwater unfit for its reutilization. The main focus of this study is to develop an efficient framework for locating the release depth of recharged water in saline groundwater regions for increasing its re-utilization in dry periods.

Achievements

Prof. Brijesh Yadav has been selected as an Editorial board member of the journal Journal of Human, Environment, and Health Promotion
<http://zums.ac.ir/jhehp/page/13/Editorial-Board>

Ms. Karisma Yuman (Master Student) has been awarded a DAAD-KOSPIE fellowship to work on her master thesis at TU Munich.

Mr. Mulugeta Musie Abdi (Ph.D. student) under the supervision of Prof. Sumit Sen successfully defended his Ph.D. thesis "Hydrologic Impacts of Climate and Anthropogenic Changes on an Ethiopian Rift Valley Lake" on the 30th of September 2020.