

5th International Conference on

GEOLOGY & EARTH SCIENCE

October 16, 2020 | Virtual Conference

Flood Hazard Management using Geographical Information System (GIS): A Case Study of East Nile District, Khartoum State, Sudan

Rifaat Abdalla^{1*} and Gar Elnabi Mohamed²

¹Sultan Qaboos University, Oman

²King Abdulaziz University, Saudi Arabia

Floods are a major risk in many parts of the world, leading to many risks to life in different fields. The use of modern technologies such as Geographical information system (GIS) reduces the harmful effects of these floods and manages the flood disaster. With the technological development of this age, the use of these techniques is becoming available, as using geographic information systems leads to positive results in managing flood crisis and reducing damage. This study applied Geographical Information System Technology in the spatial analysis of flood risks in East Nile District, Khartoum State, Sudan; using geospatial technologies.

Keywords: Flood Hazards; GIS

Biography:

Rifaat Abdalla received his Ph.D. degree from York University, Canada and MASc from the University of Regina, Canada. His experience is in diverse professional, research and teaching environments; including DRDC, the Federal Government of Canada research arm in National Defence and York University, where he spent four years as a Tutorial Leader and served as Adjunct Faculty afterwards. He was also employed by the Geological Lab of the Provincial Government of Saskatchewan. Prior joining Sultan Qaboos University (SQU) in 2017, he served for five years with King Abdulaziz University in Saudi Arabia for two terms between 2006-2008 and 2013-2017. Dr. Abdalla has worked for the industry in various capacities from entry level to senior consultant. Dr. Abdalla is an active professor, interested researcher and eager professional combining multiple career paths.