EARTH OBSERVATION SYMPOSIUM (B1)
Poster Session (P)

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DYNAMIC RISK MAP FOR THE MEXICAN STATE OF TABASCO USING UPDATABLE REMOTE SENSING IMAGES AND DATABASES

Abstract

The Mexican State of Tabasco is located in a tropical zone in the Southern part of the country facing the Gulf of Mexico. It is a region that suffers permanently from floods that cause severe problems to the road and telecommunications infrastructure, as well as epidemics arising from stagnant water and limited access to medical services, drinking water and food. Due to the speed with which natural phenomena occur in the region, risk maps that have been made so far become obsolete in a short time. For this reason, and with the support of the Mexican Space Agency and other state agencies, it is proposed to create a dynamic risk map using remote sensing images and databases from different services already in place in the country. The information used in the system includes meteorological, geological, chemical and hydrological, among other variables and it is presented in an appropriate format, to facilitate decision-making in a timely manner in order to expedite actions to prevent further damage and improve the quality of life of the citizens.