Assessing Flood Risk on the Texas Gulf Coast

Topic: Disaster management

Problem Statement: Corpus Christi has experienced extensive urban expansion in the Southside. How do land cover and other physical properties affect the amount of run-off?

Level: Beginning remote sensing: advanced /intermediate GIS

Software: ENVI, ArcGIS, Spatial, 3D Analyst, Active Sync, ArcPad 7.1.1, Publishing software, and Fire Fox

Description: This Learning Unit uses real world data and methods to identify flood risk in the Oso Creek-Nueces Rio Grand-Coastal Basin. Student teams use Landsat images and other spatial data to carry out the analysis and build a model.

Keywords: Remote sensing, PCA, DEM, GPS

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