Abstract

The Sacramento-San Joaquin River Delta is facing tremendous problems related to policy, economy, culture, and ecology. One of the most critical issues in the Sacramento-San Joaquin delta is levee failure which brings flood disaster to inhabitants and agriculture. Another unavoidable problem is land subsidence, which requires making levees higher. If a strong earthquake hits the Bay Area and the Sacramento-San Joaquin Delta, which geologists are confident will happen in the next twenty years, then it is possible that levees in the Delta will collapse and salt water flow into the Delta from the San Francisco Bay as consequence of the predicted earthquake. But if the government just concentrates on the repair of the levee system, it makes other problems, such as financial burdens, ecological destruction, and so on. Therefore, this thesis examines how artificial infrastructures can adapt to unpredictable environmental changes and register them.
New landform
Physical 3D Maps and Models