A VISIBLE CHANGE: The Shrinking Sea
The Changing Shape of the Salton Sea Since 2001

The Salton Sea is a shallow, saline, manmade lake located directly on the San Andreas Fault, predominately in California’s Imperial and Coachella valleys.

This map tells a story about change utilizing the National Land Cover Database (NLCD). The NLCD serves as the definitive Landsat-based, 30-meter resolution, land cover database for the Nation and is provided by the Multi-Resolution Land Characteristics (MLRC) Consortium, a partnership of Federal agencies led by the U.S. Geological Survey. Analysis was performed on the 2001, 2006, and 2011 NLCD datasets; surface area was compared to determine % of the shrinking sea.

SALTON SEA QUICK FACTS:
Largest Lake in California
Surface elevation: -226.4’
Area: 376.1 mi²
Length: 34.8 mi
Population: 0

(SOURCE: WIKIPEDIA)

SALTON SEA, CALIFORNIA

5TH Annual GISCI Map Contest 2016 | Map Author: Carrie Wiley, GISP

Using GIS to determine how land cover changes over time

Data Sources: NLDC (MLRC), Landsat (USGS), and California Department of Water Resources
Software: ESRI ArcGIS 10.3 with Spatial Analyst Extension, Adobe Fireworks, and Microsoft PowerPoint
Methodology: Spatial Analysis utilizing Reclassification Methods
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Please contact Carrie Wiley, cbwiley@gmail.com, for metadata and methodology.