

A VISIBLE CHANGE: *The Shrinking Sea*

The Changing Shape of the Salton Sea Since 2001

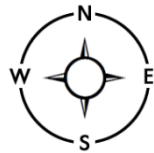
The Salton Sea is a shallow, saline, manmade lake located directly on the San Andreas Fault, predominately in California's Imperial and Coachella valleys.

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)

(SOURCE: CALIFORNIA DEPARTMENT OF WATER RESOURCES)



SALTON SEA, CALIFORNIA



Data Sources: NLDC (MLRC), Landsat (USGS), and California Department of Water Resources

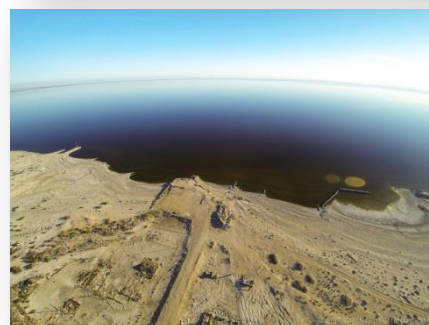
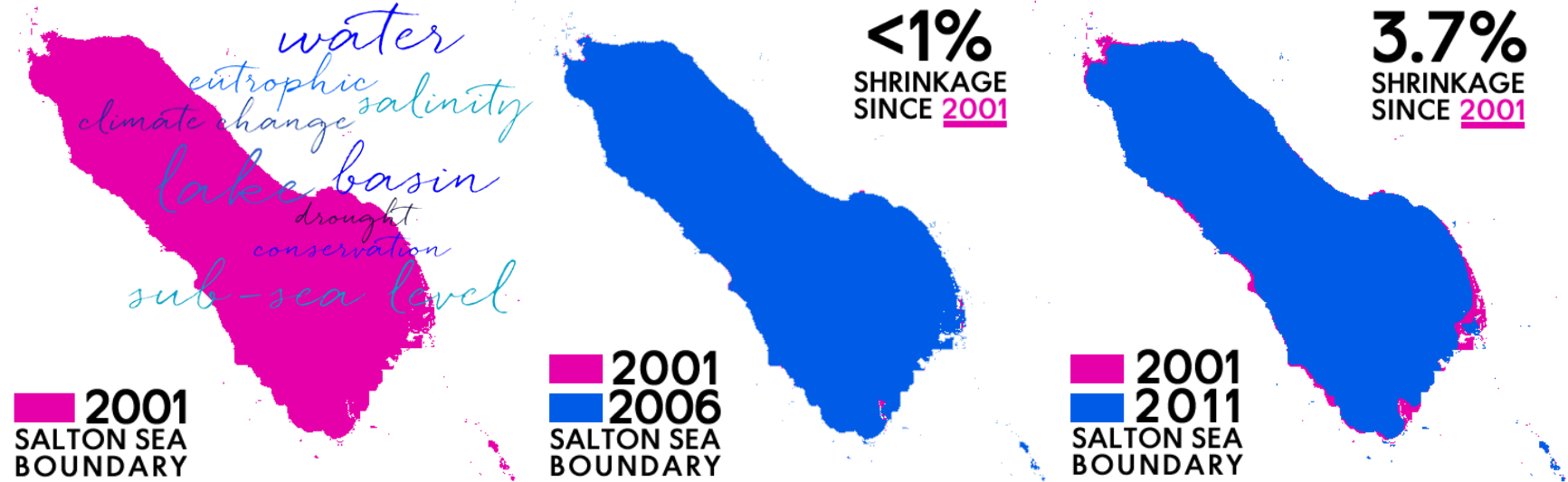
Software: ESRI ArcGIS 10.3 with Spatial Analyst Extension, Adobe Fireworks, and Microsoft PowerPoint

Methodology: Spatial Analysis utilizing Reclassification Methods

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Please contact Carrie Wiley, cbwiley@gmail.com, for metadata and methodology.

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



USING GIS TO DETERMINE HOW LAND COVER CHANGES OVER TIME
 National Land Cover Data (2001, 2006, 2011) and LANDSAT 8 Imagery (March 20, 2016)

