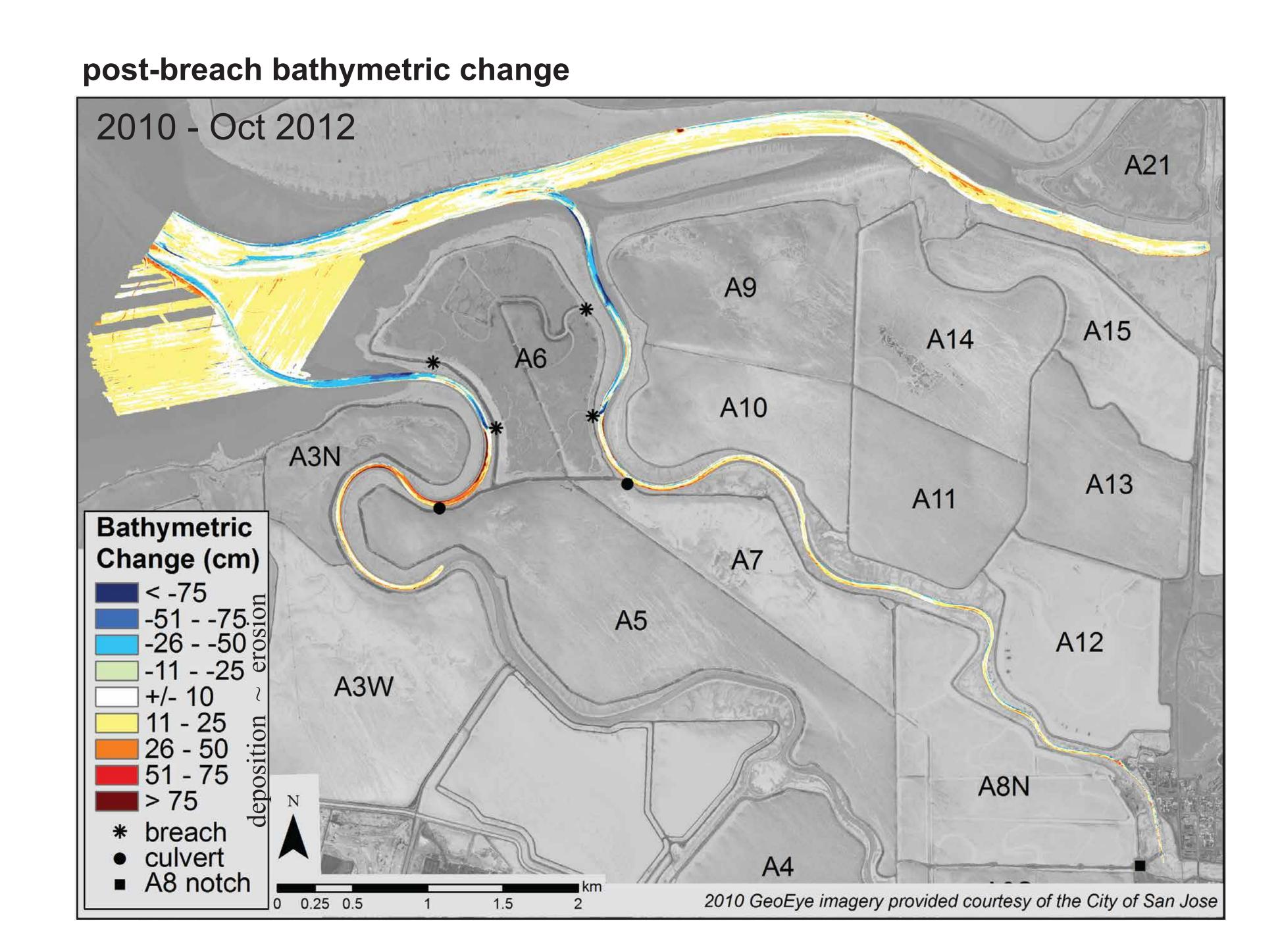


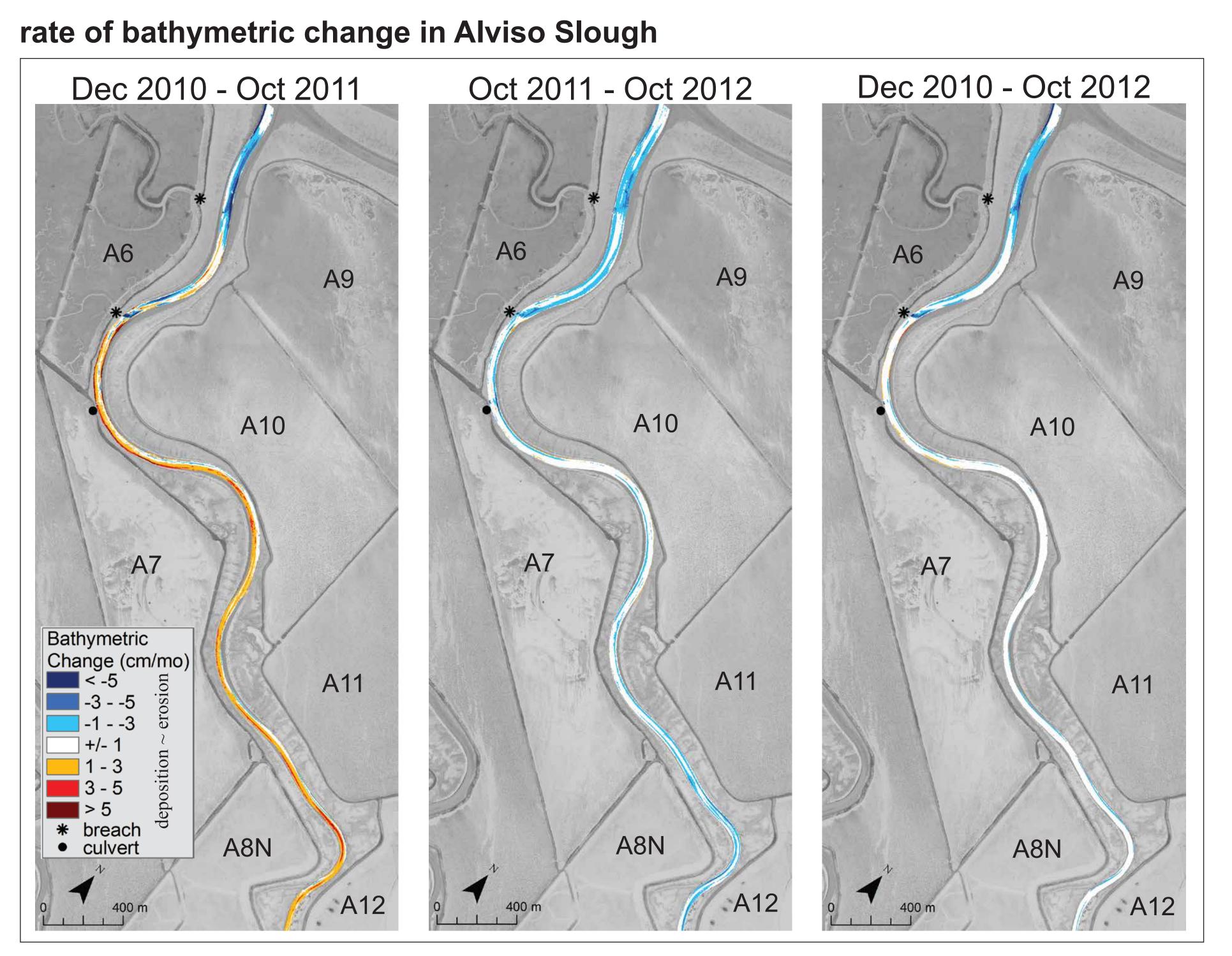
## Changes to bathymetry as Alviso restoration progresses: 2010 - 2013

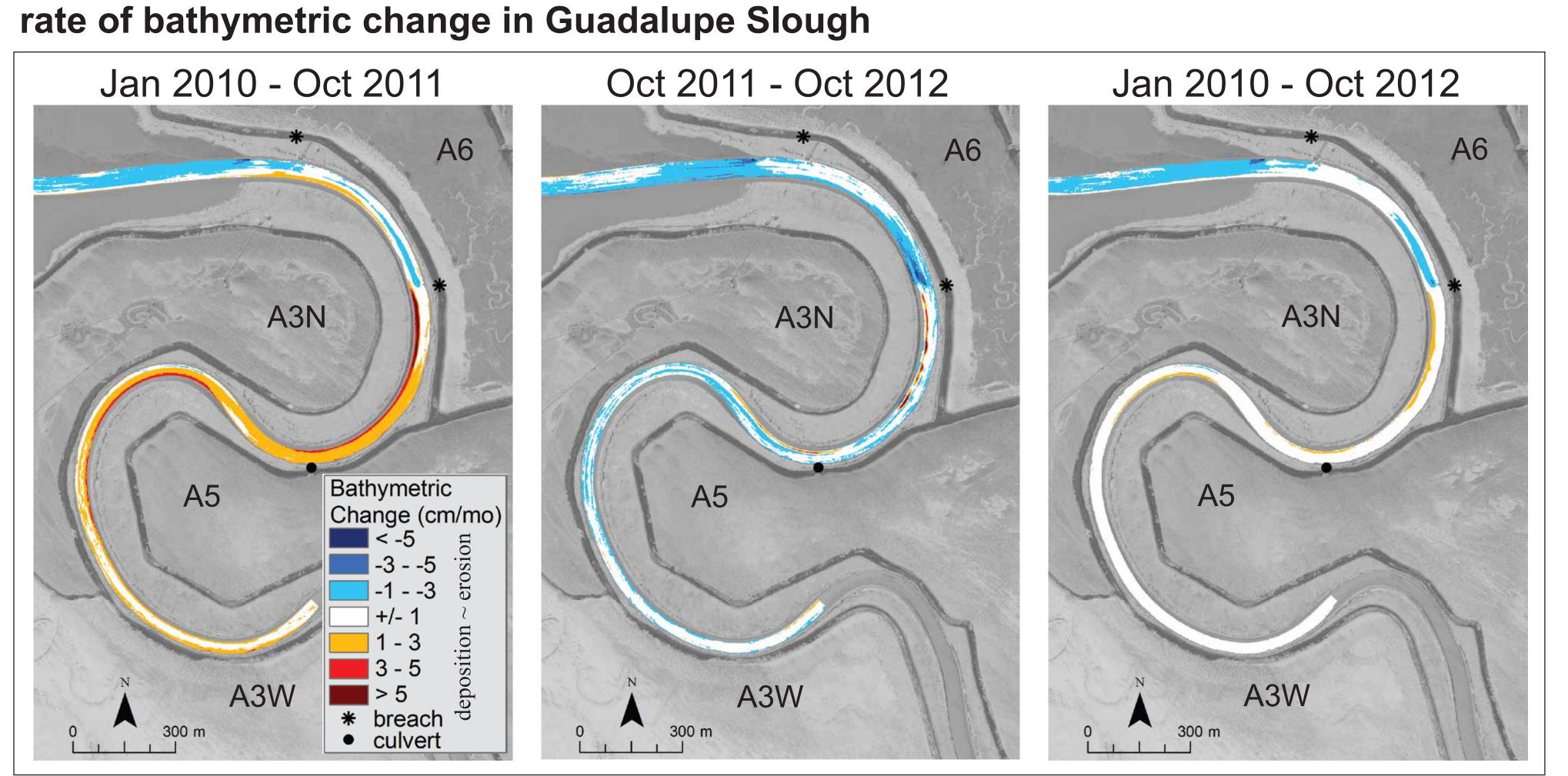
Amy C. Foxgrover, Bruce E. Jaffe, and Theresa A. Fregoso USGS Pacific Coastal and Marine Science Center, Santa Cruz, CA

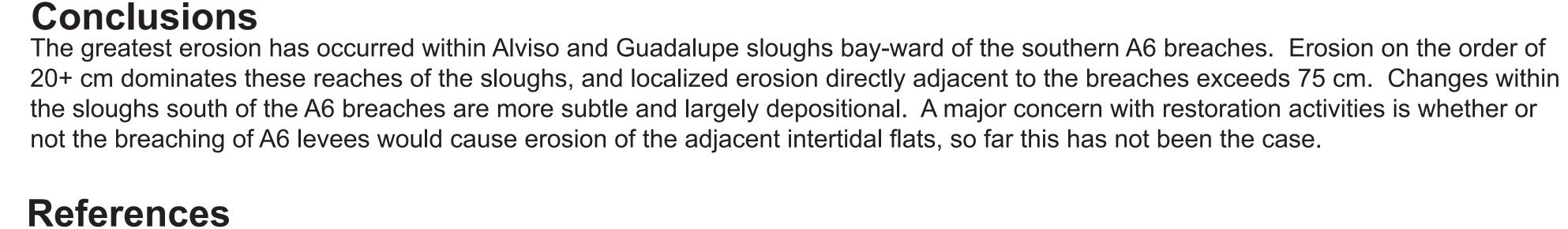


## restoration activities Introduction In 2010 the USGS mapped the bathymetry in the vicinity of the Alviso Pond A6 breached A8- gates 1-3 A8 - gate 1 A8 - gates 1-3 A8 - gates 1-3 A8 - gate 1 complex including the main channel of South Bay, shallow intertidal mudflats, closed 12/1/12 opened 6/1/12 opened 6/6/13 12/20/10 opened 6/1/11 closed 12/1/11 and Alviso and Guadalupe Sloughs to establish baseline bathymetry prior to the breaching of Pond A6 levees and opening of gates at Pond A8 (Foxgrover et al., 2011). Interferometric sidescan swath mapping was used to generate high resolution (1 m cell size) bathymetric grids of the far South Bay extending east of 2010 2011 2012 2013 Calaveras Point to where Coyote Creek meets the railroad bridge, and down Alviso Slough to just past the A8 notch. Since 2010 we have conducted five additional surveys to monitor bathymetric change in this region as restoration progresses. Our next survey is scheduled for November 2013. **Sept 2010** Apr 2013 (not shown) **Dec 2010** Oct 2012 Nov 2013 Jan 2010 Oct 2011 Feb 2012 **Apr 2012** (planned survey) collecting swath bathymetry in Alviso Slough A6 breach at high tide bathymetry surveys Oct 2011 Feb 2012 Apr 2012 Oct 2012 A14 A14 A10 A12 Bathymetry MLLW (m) Bathymetry Bathymetry Bathymetry









Foxgrover et al., 2011, 2010 Bathymetry and Digital Elevation Model of Coyote Creek and Alviso Slough, South San Francisco Bay, California: U.S. Geological Survey Open-File Report 2011-1315, 21 p., available at: http://pubs.usgs.gov/of/2011/1315.