

## Interactions among the Galapagos volcanoes triggered by earthquakes and eruptions

Falk Amelung, Scott Baker, Marco Bagnardi

University of Miami, USA

E-mail: famelung@rsmas.miami.edu

The Galapagos basaltic shield volcances are among the most active volcances in the world. They are known for their dynamic calderas which are inflating and deflating by decimeters to meters between eruptions, which is well resolved by satellite radar interferometry. Here we report on geodetic observations indicating interactions among the volcances. During 2006-2007 several seismic swarms occurred that led to inflation at some and deflation at other volcances. We report on earthquake-volcance and on volcano-volcance interactions. The 2009 eruption of Fernandina volcance led to a cessation of inflation at Wolf and Alcedo volcances. These observations show that the magmatic plumbing systems of the individual volcances are interconnected.