

2010 AGU Fall Meeting

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ANALYSIS OF 2005-2010 DOME EXTRUSION AT THE VOLCAN DE COLIMA, MEXICO USING TILT METER SURVEYS

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The recent activity phase of Volcan de Colima will be described here to interpret the last phase of unrest corresponding to period 2005-2010 using the electronic tiltmeter surveys. The Volcan de Colima, Mexico is located on the western front of the Trans-Mexican Volcanic Belt and it is considered one of the most active volcanoes in Mexico. The last dome extrusion at the Volcan de Colima, Mexico occurred in 2007 without manifestation of seismicity. This extrusion is carried out using the tilt meter netz installed around the volcano edifice appearing this lava extrusion with the manifestation of stages of inflation tilt change accompanied by the deflation changes. The recent unrest at andesitic Volcán de Colima, México began on 28 November 1997 with a sharp increase in seismic activity and a significant shortening of geodetic lines around the volcano edifice. During this period of activity 4 lava extrusions are occurred: November 1998, May 2001, September 2004 and the actual February 2007 until 2010. Destruction of the lava dome occurred with a series of explosions and emission of ash and pyroclastic flows during these activity phases. Associated with the growth of the dome variations of deformation is observed. Here we show the analysis of the last dome extrusion 2007-2010 in comparison with the previous extrusion during the recent activity phase.

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