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Application of the Coherent Pixels Technique (CPT) to ENVISAT SAR images for deformation studies in La Palma island

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Abstract. In this paper, an advanced technique for the generation of deformation maps using SAR data is applied. We present deformation results obtained by applying the Coherent Pixel Technique, an Advanced Differential SAR Interferometry algorithm, which reveal surface deformation episodes in the La Palma Island. The study is carried out by employing DInSAR interferograms concerning the 2004-2007 period corresponding to both ascending and descending images acquired by the ENVISAT ASAR sensor.

Keywords: La Palma, geodetic volcano monitoring, DInSAR.