



Analysis of the effect of ionosphere in L-band ALOS interferograms of the Gulf of Corinth in Greece

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A series of L-band PALSAR/ALOS single (HH) and dual (HH-VV) polarisation data over the Gulf of Corinth, Greece, have been acquired. Differential interferograms were calculated from these data. The Gulf of Corinth seismic area is also monitored with 6 permanent GPS receivers. For the epochs of PALSAR observations, we extracted from the dual-frequency GPS data the ionospheric delay in the line of sight of each satellite. At some stations equipped with receivers collecting P1 and P2, the absolute delay can be estimated. At all stations, relative delays from L1 and L2 were extracted from the data. We analyze our results and discuss the possible influence of the ionosphere in the differential interferograms as well as in singles (of dual polarisation) images and its weight compared to the tropospheric noise.