



## **Precipitations on the lee side of the Vosges Mountains : 2 case studies from the COPS campaign**

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The international field campaign COPS (Convective and Orographically-induced Precipitation Study) took place from 01 June to 31 August 2007 in a low mountain area in southwestern Germany/ eastern France. In this poster we will explore the lee side precipitations due to shallow and deep convection during two Intensive Observation Period (IOP) of COPS. For the observations of the precipitating systems, we use two radars plus two extra Doppler on Wheels radars for the wind field. From a network of GPS stations, we retrieve the 3D water vapour field using a tomography software. Complementary information about wind field and moisture flux convergence is given by Vienna Enhanced Resolution Analysis (VERA).

We will give a special attention to small scale orographic effects on the development of precipitations, including the role of water vapor convergence as a precursor to the convective initiation and the links between water vapour field evolution and convective development.