



Precipitations on the lee side of the Vosges Mountains during COPS : case studies

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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 (case 1 : 07/18) and deep (case 2 : 08/06) convection, using observations from radars, satellites, radiosoundings, and a network of GPS stations, as well as models simulations. In particular, 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.