



Weather radar signatures obtained from cloude-pottier decomposition

M. Galletti (1), M. Chandra (2) and A. Danklmayer (1)

(1) DLR, Institut für Hochfrequenztechnik und Radarsysteme, Deutsches Zentrum für Luft- und Raumfahrt (DLR), Germany, (2) TU-Chemnitz – Department of Microwave Engineering and Photonics, 09126 Chemnitz, Germany (madhu.chandra@infotech.tu-chemnitz.de)

In this contribution we report on the application of Cloude-Pottier decomposition to C-band polarimetric weather radar data. The signatures of Entropy, Alpha, and Anisotropy parameters are presented for clouds and precipitation. The physical interpretation of the images and their potential applications will be proposed and discussed. The radar data used in the reported analysis were recorded with DLR's POLDIRAD Weather Radar Facility of the Institute of the physics of Atmosphere, in Oberpfaffenhofen, Germany.