Getting quantitative information on icy hydrometeors contributing to mw scattering from polarimetric radar

Frédéric Cazenave*†[1], Matias Alcoba* , Marielle Gosset[2], and Modeste Kacou

[1]Laboratoire d'étude des transferts en hydrologie et environnement (LTHE) – Institut National Polytechnique de Grenoble (INPG), Université Joseph Fourier - Grenoble I, INSU, OSUG, CNRS : UMR5564, Institut de recherche pour le développement [IRD] : UR012 – ENSHMG - Domaine Universitaire 1023-1025 Rue de la piscine - BP 53 38041 GRENOBLE CEDEX 9, France
[2]Géosciences Environnement Toulouse (GET) – CNRS/IRD/UPS – France

Abstract

As part of the Megha-Tropiques validation super site in West Africa, the X-band polarimetric Xport radar has been operation in Niamey Niger in 2010 together with a dedicated aircraft campaign with microphysics probes. The radar is now operating, since 2012 in the Ouagadougou Super site in Burkina Faso. This talk will present comparisons of the Particle identification done by the polarimetric radar with in situ measurements and discuss the limitations.

*Speaker
†Corresponding author: frederic.cazenave@ird.fr