

**Institut für Meteorologie und Klimaforschung
KIT Campus Nord / KIT Campus Süd**

Dozenten: Prof. Dr. P. Braesicke, Prof. Dr. A. Fink, Prof. Dr. C. Hoose,
Prof. Dr. P. Knippertz, Prof. Dr. Ch. Kottmeier, Prof. Dr. Th. Leisner,
Prof. Dr. J. Orphal, PD Dr. M. Höpfner, PD Dr. M. Kunz

Karlsruher Meteorologisches Kolloquium

Einladung zum Vortrag

**" Remote sensing of low-level liquid-water
clouds and their environment"**

**Herr Prof. Dr. Jan Cermak, Karlsruhe Institute of Technology
(KIT), Institute of Meteorology and Climate Research and
Institute of Photogrammetry and Remote Sensing**

**Dienstag, den 06. Dezember 2016, 15:00 Uhr s.t.
Campus Nord, Gebäude 435, Raum 2.05**

Low-level liquid water clouds play an important role in the global climate system; yet, processes driving their development and distribution are not fully understood. This presentation explores a range of perspectives on this system.

Approaches to satellite-based and ground-based remote sensing retrieval of low stratus properties are explored. Spatial and temporal patterns are derived on this basis and combined with in-situ observations and models to improve system understanding. The second part of the presentation focuses on analyses of interactions between low-level liquid water clouds and their environment, in particular aerosol. Studies at various spatial scales are presented to constrain the relative effects of determinants of cloud development.