

# Fog

**Otto Klemm**

University of Münster, Climatology, Münster, Germany

Fog is an atmospheric phenomenon with many facets, it is formed through various processes, plays an important role in radiation transfer, has a strong impact on human life and ecosystems, and it is typically hard to predict. Generally, fog is also hard to study due to its irregular appearance.

The presentation visits various topics of fog research of the past 10 years. Some of the questions addressed will be: Why do we need a minimum of turbulence to form radiation fog in a stable boundary layer? Is it feasible to collect fog for freshwater production? Is the decrease of fog frequency and fog density due to climate change or due to an improvement of air quality? Which role plays fog in the hydrology of mountain ecosystems?