

How is rain formed?

Background

Did you ever see the rain falling out of the clouds? How are these raindrops formed? Most of them start as falling ice crystals that grow on their way down, and when the air gets warmer melt in to raindrops. But how do these crystals grow? The answer to this question will greatly improve our ability to forecast the rain.

Objective

In this study, you will analyse the growth process of ice crystals by analysing the details of signals coming from different weather radars:

- How do they change as function of height?
- And what is the relation with rainfall at the ground?

You will use the advanced radar systems of the TU Delft and the German institute TROPS for this study (see picture on the right).



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