

COM 07 Summer Course on Climate and the Hydrological Cycle

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Social problem and communication objective

A good description of the climate system depends strongly on a good understanding of the distribution of water and energy across the earth's surface. That is why meteorologists are working more closely with hydrologists. Research on the climate system and the part played by the hydrological cycle has progressed to such an extent and attracts so much interest that it justifies a national/international course on the topic.

and remote sensing. A course workbook is available which contains materials used by the lecturers. These will be reworked and expanded to produce a textbook for use in new courses to be held in subsequent years.

Objectives:

- The course provides in-depth knowledge on the interactions between climate, land use and the hydrological cycle
- The course cuts across disciplines from climate science, the earth sciences, hydrology and water management, the main integrating variables being present and future land use and climate change
- For some years to come the course book will be a source book for MSc hydrology courses, a study book for future summer courses and a reference work for PhD students and professionals

Target groups

The course is intended for final year MSc students, PhD students, postdocs and professionals interested in climate issues. More than 50 students are expected to take part in the summer school, including 15 from outside the Netherlands.

Activities and products

The course is given by 17 specialists from the Netherlands in the fields of surface water hydrology, groundwater hydrology, ecohydrology, climate hydrology, climate modelling, boundary layer meteorology, hydrometeorology, climate impact studies, geomorphology

