

**PROGRAMME**

|               |               |  |                       |
|---------------|---------------|--|-----------------------|
| tuesday 12:   | 19:00         | DINNER   |                       |
| wednesday 13: | 09:00 - 09:30 | welcome / practical announcements                                      |                       |
|               | 09:30 - 10:20 | Continuum mechanics-I  | <i>Gudmunsson</i>     |
|               | 10:20 - 10:40 | coffee break   |                       |
|               | 10:40 - 11:30 | Continuum mechanics-II   | <i>Gudmunsson</i>     |
|               | 11:40 - 12:30 | Polar meteorology  | <i>Van den Broeke</i> |
|               | 12:45         | LUNCH  |                       |
|               | 14:00 - 16:00 | group 1 & 2: exercises   | <i>Gudmunsson</i>     |
|               | 16:00 - 16:30 | coffee break   |                       |
|               | 16:30 - 17:30 | preparation for computer projects                                      |                       |
|               |               | splitting groups (2 groups for each project = 12 groups):              |                       |
|               |               | A. Remote sensing project ( <i>Rott</i> )                              |                       |
|               |               | B. Glacial isostasy ( <i>Lambeck</i> )                                 |                       |
|               |               | C. Ice shelf - ocean interaction ( <i>Jenkins</i> )                    |                       |
|               |               | D. Xxxxxxx ( <i>yyyyyy</i> )   |                       |
|               |               | E. Katabatic flow on the Antarctic ice sheet ( <i>Van den Broeke</i> ) |                       |
|               |               | F. Numerical ice-sheet model ( <i>Maier</i> )                          |                       |
|               | 19:00         | DINNER   |                       |
| thursday 14:  | 08:30 - 09:20 | Mass balance of the large ice sheets                                   | <i>Van den Broeke</i> |
|               | 09:30 - 10:20 | Remote sensing I   | <i>Rott</i>           |
|               | 10:20 - 10:40 | coffee break   |                       |
|               | 10:40 - 11:30 | Introduction to geodynamics  | <i>Lambeck</i>        |
|               | 11:40 - 12:30 | Ice sheets and geodynamics   | <i>Lambeck</i>        |
|               | 12:45         | LUNCH  |                       |
|               | 14:00 - 15:30 | group 1: exercises   | <i>Van den Broeke</i> |
|               |               | group 2: computer projects   | *                     |
|               | 15:30 - 16:00 | coffee break   |                       |
|               | 16:00 - 17:30 | group 2: exercises   | <i>Van den Broeke</i> |
|               |               | group 1: computer projects   | *                     |
|               | 19:00         | DINNER   |                       |
| friday 15:    | 08:30 - 09:20 | Rheology / simple flows (plane shear)                                  | <i>Gudmunsson</i>     |
|               | 09:30 - 10:20 | Simple analytic models of ice sheets and glaciers-I                    | <i>Oerlemans</i>      |
|               | 10:20 - 10:40 | coffee break   |                       |
|               | 10:40 - 11:30 | Remote sensing-II  | <i>Rott</i>           |
|               | 11:40 - 12:30 | Remote sensing-III   | <i>Rott</i>           |
|               | 12:45         | LUNCH  |                       |
|               | 14:00 - 15:30 | group 1: exercises   | <i>Oerlemans</i>      |
|               |               | group 2: computer projects   | *                     |
|               | 15:30 - 16:00 | coffee break   |                       |
|               | 16:00 - 17:30 | group 2: exercises   | <i>Oerlemans</i>      |
|               |               | group 1: computer projects   | *                     |
|               | 19:00         | DINNER   |                       |
| saturday 16:  | 08:30 - 09:20 | Numerical modelling of ice sheets and ice shelves-I                    | <i>Maier</i>          |
|               | 09:30 - 10:20 | Numerical modelling of ice sheets and ice shelves-II                   | <i>Maier</i>          |
|               | 10:20 - 10:40 | coffee break   |                       |
|               | 10:40 - 11:30 | Sliding  | <i>Fowler</i>         |
|               | 11:40 - 12:30 | Glacier hydrology  | <i>Fowler</i>         |
|               | 12:45         | LUNCH  |                       |
|               | 14:00 - 14:50 | Remote sensing IV  | <i>Rott</i>           |
|               | 15:00 - 15:50 | Land ice and sea level   | <i>Lambeck</i>        |
|               | 19:00         | DINNER   |                       |

|               |               |   |                           |                 |
|---------------|---------------|---|---------------------------|-----------------|
| monday 18:    | 08:30 - 09:20 | Measuring glacier mass balance                              | <i>Kaser</i>              |                 |
|               | 09:30 - 10:20 | Modelling glacier mass balance                              | <i>Oerlemans</i>          |                 |
|               | 10:20 - 10:40 | coffee break  |                           |                 |
|               | 10:40 - 11:30 | Investigating internal layering by radar                    | <i>Miller</i>             |                 |
|               | 11:40 - 12:30 | Investigating internal layering by radar                    | <i>Miller</i>             |                 |
|               | 12:45         | LUNCH   |                           |                 |
|               | 14:00 - 15:30 | group 1: exercises<br>group 2: computer projects            | <i>Fowler</i><br>*        |                 |
|               | 15:30 - 16:00 | coffee break  |                           |                 |
|               | 16:00 - 17:30 | group 2: exercises<br>group 1: computer projects            | <i>Fowler</i><br>*        |                 |
| 19:00         | DINNER        |   |                           |                 |
| tuesday 19:   | 08:30 - 09:20 | Interaction of ice shelves with the ocean                   | <i>Jenkins</i>            |                 |
|               | 09:30 - 10:20 | Interaction of ice shelves with the ocean                   | <i>Jenkins</i>            |                 |
|               | 10:20 - 10:40 | coffee break  |                           |                 |
|               | 10:40 - 11:30 | Land ice and sea level                                      | <i>Lambeck</i>            |                 |
|               | 11:40 - 12:30 | Basal processes and geomorphology                           | <i>Fowler</i>             |                 |
|               | 12:45         | LUNCH   |                           |                 |
|               | 14:00 - 15:30 | group 1: free<br>group 2: computer projects                 | *                         |                 |
|               | 15:30 - 16:00 | coffee break  |                           |                 |
|               | 16:00 - 17:30 | group 2: free<br>group 1: computer projects                 | *                         |                 |
| 19:00         | DINNER        |   |                           |                 |
| wednesday 20: | 08:30 - 09:20 | Metamorphosis from firn to ice (incl. air bubbles)          | <i>Stauffer</i>           |                 |
|               | 09:30 - 10:20 | Isotopic composition in the ice                             | <i>Stauffer</i>           |                 |
|               | 10:20 - 10:40 | coffee break  |                           |                 |
|               | 10:40 - 11:30 | Tropical glaciers   | <i>Kaser</i>              |                 |
|               | 11:40 - 12:30 | Simple analytic models of ice sheets and glaciers-II        | <i>Oerlemans</i>          |                 |
|               | 12:45         | LUNCH   |                           |                 |
|               | 14:00         | Excursion   |                           |                 |
|               | thursday 21:  | 08:30 - 09:20   | Diffusion in firn and ice | <i>Stauffer</i> |
|               |               | 09:30 - 10:20   | Ice-core analysis I       | <i>Stauffer</i> |
| 10:20 - 10:40 |               | coffee break  |                           |                 |
| 10:40 - 11:30 |               | Ice shelves, icebergs and the thermohaline circulation      | <i>Jenkins</i>            |                 |
| 11:40 - 12:30 |               | Representation of cryospheric processes in GCM's            | <i>Genthon</i>            |                 |
| 12:45         |               | LUNCH   |                           |                 |
| 14:00 - 15:30 |               | group 1: exercises<br>group 2: computer projects            | <i>Stauffer</i><br>*      |                 |
| 15:30 - 16:00 |               | coffee break  |                           |                 |
| 16:00 - 17:30 |               | group 2: exercises<br>group 1: computer projects            | <i>Stauffer</i><br>*      |                 |
| 19:00         | DINNER        |   |                           |                 |
| friday 22:    | 08:30 - 09:20 | Ice core analysis II  | <i>Stauffer</i>           |                 |
|               | 09:30 - 10:20 | Simulation of the climate of the last glacial maximum (LGM) | <i>Genthon</i>            |                 |
|               | 10:20 - 10:40 | coffee break  |                           |                 |
|               | 10:40 - 12:30 | presentation of computer projects (6x)                      |                           |                 |
|               | 12:45         | LUNCH   |                           |                 |
|               | 14:00 - 15:30 | presentation of computer projects (6x)                      |                           |                 |
|               | 15:30 - 16:00 | coffee break  |                           |                 |
|               | 16:00 - 17:00 | evaluation  |                           |                 |
|               | 19:00         | DINNER  |                           |                 |
| Saturday 23:  | DEPARTURE     |   |                           |                 |