

High mountain glaciers and challenges caused by climate change

8-10 June 2009, Tromsø, Norway



Programme

Sunday 7 June

17:45 Bus transfer from hotel to Ice-breaker/registration/poster mounting session

18:00 Poster mounting session and registration at the Polar Environmental Centre

19:00 Ice breaker get-together at Polaria Visitors' Centre, with introductory lecture on *Arctic glaciers in Svalbard* by Jack Kohler, Norwegian Polar Institute (NPI), followed by an *Update on the WCRP/SCAR/IASC Climate and Cryosphere (CliC) Project* by Koni Steffen, CliC Co-chair (CIRES, University of Colorado, Boulder, USA).

Monday 8 June

09:00 Transfer from Scandic Hotel Tromsø

09:15 Registration – Coffee and poster session

10:15 Plenary

Chair: Nalan Koc

Welcome by *Jan-Gunnar Winther*, Director, Norwegian Polar Institute. Opening by *Heidi Sørensen*, Deputy Minister, Norwegian Ministry of the Environment, and *Angela Cropper*, Deputy Executive Director for UNEP.

11:15-11:45 Georg Kaser (keynote, topic 1): “Climate change in the high mountain regions of the world: Do climate models adequately describe glacier systems?”

11:45-12:00 **COFFEE**

12:00-12:30 John Reynolds (keynote, topic 2): “Glacial hazards and downstream effects of climate change on high mountain glaciers”

12:30-13:00 Christian Nellemann (keynote, topic 3): “Food security and high mountain glaciers”

13:00 **LUNCH**

Monday 8 June (cont'd)

Topic 1: Climate change in the high regions of the world: Do climate models adequately describe glacier systems? Similarities and differences between high altitude and high latitude glaciers

Chair: Jon Ove Hagen

13:50-14:10 Gino Casassa: "Impact of retreating glaciers in glacial run-off: a global assessment of high mountain regions"

14:10-14:30 Pierre Chevallier: "The climate change impact on the waterflow regimes in high mountains and the role of the cryosphere: Andes, Himalayas and Pamir"

14:30-14:50 Baisheng Ye: "Glacier runoff and its change in China"

14:50-15:10 Pradeep Mool: "Glacier, glacial lake and Glacial Lake Outburst Flood in the Himalayas"

15:10-15:30 Frank Paul: "Impacts of climate change on high-mountain glaciers in the Alps: Observations and results from modelling studies"

15:30-15:50 COFFEE

Topic 1, cont'd

Chair: Elisabeth Isaksson

15:50 – 16:20 Margit Schwikowski: "High-mountain glaciers as climate archives"

16:20-16:40 Konrad Steffen: "Increased runoff from melt from the Greenland ice sheet: A response to global warming"

Topic 2: Climate change of high-altitude glaciers and downstream effects

16:40-17:00 Andy Kääb: "The role, achievements and prospects of remote sensing for observing high mountain glaciers and related hazards"

17:00-17:20 Karma Chopel: "Impact of deglaciation in the Bhutanese Himalayas"

17:20-17:40 John Reynolds: "GLOF hazards in Bhutan and the management of glacial lakes in high mountain environments"

17:45 Transfer to Scandic Hotel

20:00 BANQUET AT SCANDIC HOTEL

Tuesday 9 June

08:30 Transfer from Scandic Hotel

Topic 2 (cont'd) Climate change of high-altitude glaciers and downstream effects

Chair: Jack Kohler

09:00-09:30 Haakon Lein: "Climate change and development challenges in a downstream state. The case of Bangladesh"

09:30-09:50 Mats Eriksson: "Impacts of climate change on water resources in the Hindu-Kush Himalaya"

09:50-10:10 Ysmaiyl Dairov: "The glaciers of Central Asia: Tienshan and Pamir - trends and future"

10:10-10:30 Eddy Moors: "High Noon: Adaptation to changing water resources availability in northern India in respect to Himalayan glacier retreat and changing monsoon pattern"

10:30 – 10:50 COFFEE

Topic 3: Impacts and adaptation to climate change

10:50-11:10 P.G. Dhar Chakrabarti: "Climate change – its impacts and adaptation in India"

11:10-11:30 Amir Muhammed: "Impact of climate change in the Himalaya-Hindukush mountains on water resources and overall economy of Pakistan"

11:30-11:50 Rakhshan Roohi: "Glacier resources of Pakistan – their response to climate change and associated hazards"

11:50-12:10 Stella Maris Navone: "Adaptation to climate change on food security and livelihoods: Can humans act in time?"

12:10 LUNCH

13:15 Break-out sessions

17:00 **End of discussions.** The group leaders and rapporteurs cooperate in compiling results

18:30 Participants gather at *Driv* for a Norwegian shrimp feast

22:00 Transfer to Scandic Hotel via city centre

Wednesday 10 June

08:30 Transfer from Scandic Hotel

09:00 Rapporteurs present results from the break-out sessions. Plenary discussions on how results from the sessions affect each other. Presentations for the press.

12:00 LUNCH

12:45 Departure for the airport for those leaving at 1400h. Flights to Oslo at 1400, 1600, 1710 and 1840 (SAS) and 1640 (Norwegian)