



World Meteorological Organization

Working together in weather, climate and water

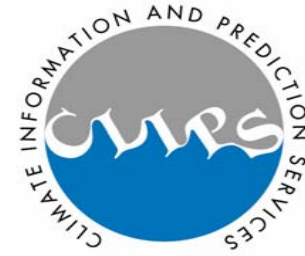


WMO WCRP IPY Workshop on CLIPS in Polar Regions: Climate product generation, user liaison and training

8-11 September 2008
St Petersburg, Russian Federation



CLIPS in Polar Regions



There is a need for consistent, useful, operational climate information, products and services for high latitudes:

Humans have learned to thrive in polar climates, but rapid change is affecting their traditional way of life, and their health and safety.



Climate change in the Arctic threatens many species – land-based, freshwater and marine.





CLIPS in Polar Regions



Industry including land and marine transportation, mining, oil and gas exploration and energy production must consider climate variability and change in planning and operations



CLIPS in Polar Regions



Thawing permafrost is leading to additional GHG emissions, coastal erosion and damaged infrastructure



Tourism could open up, with both positive and negative implications for the local population and the environment at high latitudes





CLIPS in Polar Regions

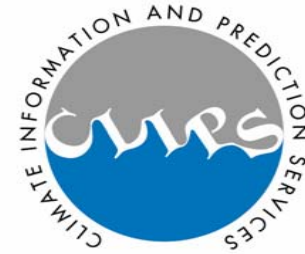


Aims of the WMO, WCRP IPY Workshop:

- to bring together climate and user representatives with interests in Polar Regions
- to share information and knowledge of the evolution of the local climate, and of the climate sensitivity of social, natural and economic systems in these areas and to raise awareness on these matters
- to identify requirements for climate information, products and services
- to engage in awareness and technical training on the climates of Polar Regions and useful modern methods and tools for development of climate products including monthly to seasonal predictions
- evaluate options for sustained, regular international efforts to serve the climate-related needs of Polar Regions – e.g.:
a Polar Climate Outlook Forum (PCOF)



CLIPS in Polar Regions



Expected Outcomes:

- Recommendations to WMO, WCRP, IPY for new or improved research, observations, and product and service development to serve the needs for climate information of the peoples living or working in polar regions;
- Recommendations to WMO regarding establishment of regular PCOF (Polar Climate Outlook Forum), with associated training activities for climate scientists and users and information sharing capacity, as a WMO contribution to the IPY Legacy;
- Recommendations to WMO, WCRP, IPY on establishing effective long-term interface with user sectors and socio-political mechanisms that serve the people living and working in polar regions, to support continual improvements to the PCOF process as well as the products and services available to serve user needs.



CLIPS in Polar Regions



Essential to success, are the interest, guidance and expertise from:

- *the science research communities (e.g. WCRP CliC and CLIVAR), on the cryosphere, climate and climate change, prediction, etc.*
- *National Meteorological and Hydrological Services, to continue and enhance their commitments to observations, and to research and development of operational products and services*
- *the socio-economic communities working in these regions (health, energy, tourism, transportation, fisheries, mining, etc)*
- *groups already concerned with the well-being of the people, and their governance*



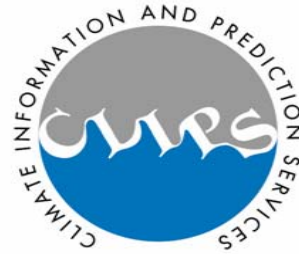
CLIPS in Polar Regions



- Participants include:
 - the climate research community
 - current and potential future providers of climate data, information, products and services, and
 - representatives of the user communities.
- WCRP CliC and CLIVAR; IPY; WCP; ESA
- NMHSs and prediction or research centres of Brazil, Canada, Chile, Denmark, Finland, Germany, Hungary, Iceland, India, the Netherlands, Norway, Russian Federation, UK, USA
- Arctic Council AMAP
- Interested organizations: IASC; BAS, UNEP (GRID-A); NSIDC; Inuit Circumpolar Conference ...
- Interested Universities: Ohio State; Trent U; U. Alberta; U. Illinois...



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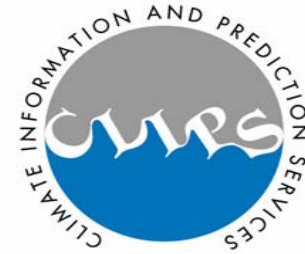


Programme outline:

- WMO-related international climate science programmes
- Climate variability and change in polar regions
- Climate products and services for polar users
- Climate-related needs of people in polar regions
- Development and communication of information, products and services, including demonstrations
- Addressing the needs – recommendations



CLIPS in Polar Regions



Workshop web site contents:

- Announcement
 - Themes
 - Organizers
 - Contacts
 - Background
 - Participation (how to get involved)
- Programme
- List of Participants
- Logistical information
- Links

<http://www.wmo.int/pages/prog/wcp/wcasp/polarclips.html>



CLIPS in Polar Regions

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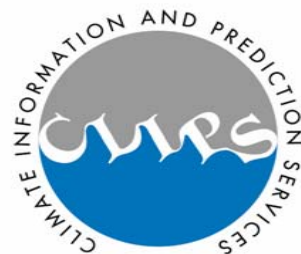
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Thank you

Merci

Спасибо

Gracias

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