



AGENDA

Friday 6 November

- 18:00 Registration
 Princess Hotel
- 19:00-20:30 Icebreaker
 Princess Hotel

Saturday 7 November **IARC University of Alaska at Fairbanks**

- 8:00-8:15 Vans leave Princess Hotel for IARC
- 8:00-8:45 Registration
- 8:45 Welcome and Opening (Carolyn Wegner, Session Chair)
 Room: 401
 Carolyn Wegner and Larry Hinzman
- 9:00 Expert speakers of different disciplines on additional background of ART's
 key scientific question
- 1. Large Scale Processes and changes in the ecosystem: Paul Wassmann
 - 2. Sea Ice: Hajo Eicken
 - 3. Paleo-oceanography: Matthias Forwick
- 10:30 Coffee Break
- 11:00 Expert speakers con't (Marit Reigstad, Session Chair)
- 4. Atmosphere: John Walsh
 - 5. Ocean circulation and processes: Wieslaw Maslowski
 - 6. Land-Ocean Interface: Paul Overduin

- 12:30 Lunch Break
- 13:30 Directions to Workshop Participants
Karen Frey
- Working Groups (see last page for room numbers)
- (i) Sea ice (two groups)
 - (ii) Land-ocean transport processes (two groups)
 - (iii) Ecosystem responses (three groups)
- 15:00 Coffee Break
- 15:30 Working Groups reconvene
- 17:00 Conclude
- 17:15 Vans leave for Princess Hotel

Sunday 8 November

- 8:00 Vans leave from Princess Hotel for IARC
- 8:30 Working Groups reconvene
- (i) Sea ice (two groups)
 - (ii) Land-ocean transport processes (two groups)
 - (iii) Ecosystem responses (three groups)
- Beginning at 8:45 there will be three mini-sessions. Each session will last 30 minutes. Participants can rotate to up to three sessions to hear a very short report from the working group and to provide comments and insight into the work of that group.*
- 10:15 Coffee Break
- 10:45 Working Groups reconvene
- (i) Sea ice (two groups)
 - (ii) Land-ocean transport processes (two groups)
 - (iii) Ecosystem responses (three groups)
- Original working groups reconvene to discuss the input from the mini sessions.*
- 12:00 Lunch
- 13:00 Fieldtrip
- 17:00 Arrive at Chena Hot Springs with time to enjoy the hot springs and relax.
- 18:30 Workshop Dinner hosted by the Norwegian Research Council
- 20:30 Bus departs restaurant for Princess Hotel
- 22:00 Bus returns to the hotel.

Monday 9 November

- 08:30 Vans depart Princess Hotel for IARC
09:00 Christine Michel (Session Chair)
Room: 401
- Presentation of 7 working groups
Each working group will have 15 minutes to present their results to the Workshop and to a Marine Round Table (MRT) Panel of Experts.
- 10:45 Coffee Break
- 11:15 MRT Panel of Experts
(Jackie Grebmeier, Bernie Coakley, Sue Moore, Steve Solomon and Julie Brigham-Grette)
The expert panel will provide feedback on the working group reports
- 12:30 Lunch
- 13:30 Jeremy Mathis (Session Chair)
- MRT Panel of Experts will provide expert advice on drafting a science and implementation plan for ART.
- 15:00 Coffee Break
- 15:30 Discussion of workshop participants and formulation of the outline of the draft science plan.
- 17:00 Conclusion of Workshop
- 17:15 Vans depart IARC for Princess Hotel

Tuesday 10 November

- All Day Drafting Group will meet to begin drafting of the ART science and implementation plan. Tasks will be assigned with the goal of completing the plan by April 2010. (Participants must register in advance if they wish to participate in this drafting session. It is closed except for registered participants)

WORKING GROUPS

Sea Ice

WG A1: What are the spatial and temporal variations in sea-ice cover and ocean circulation through the Holocene; how do these transitions relate to marine ecosystem changes?

Chair: Stefan Hendricks
Room: O'Neil Bldg. 201

WG A2: How does the transition from multi-year to annual sea ice influence Arctic productivity and food-web transfers, and can Holocene transitions help understand current change?

Chair: John Cassano
Room: O'Neil Bldg 214

Land-Ocean Interaction

WG B1: What is the pan-Arctic role of shelves and gateways (e.g. Siberian shelf, Canadian Archipelago, Atlantic and Pacific inflow and outflow shelves), for global Arctic production and ecosystem functioning, including distribution of organisms (hot spots), and how do these change during states of transition?

Chair: Igor Polyakov
Room: IARC 319

WG B2: How did and do the changes in the sea-ice regime, an enhanced hydrological cycle, increased coastal erosion, permafrost melt, and changes in ocean circulation affect cross-shelf to basin and along-shelf transport of organic and inorganic materials, including contaminants?

Chair: Elizabeth Shadwick
Room: IARC 501

Ecosystem Response

WG C1: What is the balance between bottom-up (e.g. nutrients, light availability) and top-down (grazing) constraints on Arctic primary production and biogeochemical cycling and how is this balance changing the Arctic transition?

Chair: Lee Cooper
Room: IARC 417

WG C2: How do transition in salinity and temperature affect the niches of organisms, their interactions, and their capacity to survive and reproduce? What are the consequences of the arrival of new or disappearance of endemic species, and what are the consequences for harvestable species?

Chair: Alexandre Forest
Room: IARC 407

WG C3: How will changes in environmental conditions affect the regional distribution of productivity regimes, ecosystem structure and energy flow in the Arctic and what are the consequences for northern communities and society?

Chair: Brendan Kelly
Room: IARC 401