

Agenda

Northern Hemisphere Polar Jet Stream and Links with Arctic Climate Change

13 - 15 November 2013, Reykjavik, Iceland



**All presentations will be in the Forgardur (forecourt) underground basement room of the IMO building at Bustadavegur 7, unless otherwise noted.*

Wednesday, 13 November

Time	Agenda Item
09:00 – 09:15	Welcome and Introductions - T Jónsson and E Hanna
09:15 – 09:30	Meeting Structure and Overview - J Overland and E Hanna
09:30 – 10:40	Icelandic Perspective and Hemispheric Overview (Chair: Edward Hanna)
09:30 – 09:45	Iceland: on the northern flank of the jet stream – T Jónsson
09:45 – 10:05	Circumpolar Vortex: Calculations and Correlations – P Jones
10:05 – 10:25	Response of the wintertime atmospheric circulation to current and projected Arctic sea ice decline – G Magnúsdóttir
10:25 – 10:40	Group Discussion
10:40 – 11:00	Coffee Break
11:00 – 12:45	Jet Stream Especially the North Atlantic (Chair: Robert Erdelyi)
11:00 – 11:20	A long perspective on Atlantic jet variability – T Woollings
11:20 – 11:35	A comparison of North Atlantic Jet Stream Representation in ERA-Interim and 20th Century Reanalysis Data - R Hall
11:35 – 11:55	Frozen assets: what can ships' logbooks tell us about Arctic climate change? – D Wheeler
11:55 – 12:15	Simulations of the impact of Arctic sea ice on the atmospheric circulation: the need for coupled models – D Smith
12:15 – 12:35	Greenland Blocking and North Atlantic Oscillation changes – E Hanna / J Overland
12:35 – 12:45	Group Discussion
12:45 – 14:00	Lunch (after which we move into the <i>matsalur</i> - lunch hall)
14:00 – 15:40	Potential Arctic / Mid-Latitude Linkages - North America (Chair: Edward Hanna)
14:00 – 14:20	The Chain of Events Linking Arctic Amplification to Extreme Weather: Which Links are Made of Steel and Which of Clay? – J Francis / S Vavrus
14:20 – 14:40	Northern Hemisphere polar jet stream and links with Arctic climate change: large-scale patterns – H Tanaka (by Skype)
14:40 – 15:00	Northern Hemisphere Atmospheric Response to Variations in Arctic Sea Ice – S Strey
15:00 – 15:20	Creation and interpretation of climate outlooks: An operational perspective – M Heurreux
15:20 – 15:40	Group Discussion
15:40 – 16:00	Coffee Break
16:00 – 17:50	Potential Arctic / Mid-Latitude Linkages – Europe (Chair: Hanna/Jónsson)
16:00 – 16:20	Recent changes of the atmospheric jets and their link to Northern Hemisphere weather - Petoukhov
16:20 – 16:40	Tropo- and stratospheric teleconnection response to Arctic sea ice retreat – D. Handorf
16:40 – 17:00	Influence of Arctic sea ice on European summer precipitation – J Screen
17:00 – 17:15	A reconstruction of the daily NAO back to 1850 and climatic analysis – T. Cropper
17:15 – 17:30	ERA Reanalysis and jet stream (TBC) - H. Björnsson
17:30 – 17:50	Group Discussion
19:00 -	Group Dinner (Wednesday)

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Thursday, 14 November

Time	Agenda Item
09:00 – 10:30	Potential Arctic / Mid-Latitude Linkages - <i>East Asia</i> (Chair: Jim Overland)
09:00 – 09:20	Rapid Arctic Warming in Recent Decades and Its Impact on Climate Change over East Asia - S-J Kim
09:20 – 09:40	Extreme weather in northern mid-latitudes linked to cryosphere loss - Q Tang
09:40 – 10:00	A cause of the AO polarity reversal from winter to summer in 2010 and its relation to extreme hot summer associated with polar jet, summer AO and blocking - Y Tachibana
10:00 – 10:30	Group Discussion
10:30 – 11:00	Coffee Break
11:00 – 12:00	Potential Arctic / Mid-Latitude Linkages – <i>Large Scale</i> (Chair: Jim Overland)
11:00 – 11:20	Large scale linkages between fall Eurasian snow cover and Northern Hemisphere winter climate – J. Cohen
11:20 – 11:40	Moisture injections into the Arctic and associated large-scale circulations – R. Caballero
11:40 – 12:00	Group Discussion
12:00 – 12:30	Regional Breakout Groups (start)
12:30 – 13:30	Lunch
13:30 – 16:15	Regional Breakout Groups (with Coffee from 15:00)
16:30 – 17:30	Workshop Reception at Marine Research Institute, Reykjavik Harbour

Friday, 15 November

Time	Agenda Item
09:00 – 10:30	Regional Breakout Group Reports (Chair: Jim Overland)
09:00 – 09:20	North America
09:20 – 09:40	Europe
09:40 – 10:00	East Asia
10:00 – 10:30	Large Scale
10:30 – 11:00	Coffee Break
11:00 – 12:00	Next Steps (Chair: Jim Overland)
12:00 – 13:30	Lunch
13:30	Workshop Ends

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Name	Affiliation/Institution	Country
Björnsson, Halldór	Icelandic Met Office	Iceland
Caballero, Rodrigo	Department of Meteorology, Stockholm University	Sweden
Cohen, Judah	Atmospheric and Environmental Research, Inc.	USA
Coumou, Dim	Potsdam Institute for Climate Impact Research	Germany
Cropper, Tom	University of Sheffield	UK
Erdelyi, Robert	University of Sheffield	UK
Erlingsson, Björn	International Maritime Organization	UK
Francis, Jennifer	Rutgers University	USA
Hall, Richard	University of Sheffield	UK
Handorf, Doerthe	Alfred Wegener Institute of Polar and Marine Research	Germany
Hanna, Edward	University of Sheffield	UK
Horton, Brian	University of Manitoba	Canada
Intrieri, Janet	NOAA/Boulder	USA
Jones, Phil	Climatic Research Unit, University of East Anglia	UK
Jonsson, Trausti	Icelandic Met Office	Iceland
Kim, Seong Joong	Korea Polar Research Institute	Korea

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L'Heureux, Michelle	National Centers for Environmental Protection	USA
Magnusdottir, Gudrun	University of California - Irvine	USA
Mote, Tom	University of Georgia	USA
Nawri, Nikolai	International Maritime Organization	UK
Ólafsson, Haraldur	Icelandic Met Office	Iceland
Overland, James	NOAA/Seattle	USA
Petersen, Guðrun Nina	Icelandic Met Office	Iceland
Petoukhov, Vladimir	Potsdam Institute for Climate Impact Research	Germany
Pomerance, Rafe		USA
Screen, James	University of Exeter	UK
Smith, Doug	Met Office Hadley Centre	UK
Strey, Sara	University of Illinois	USA
Sveinbjörnsson, Einar	Veðurvaktin	Iceland
Tachibana, Yoshihiro	JAMSTEC/ Mie University	Japan
Tanaka, Hiroshi	University of Tsukuba	Japan
Tang, Qihong	Chinese Academy of Sciences	China
Vavrus, Steve	University of Wisconsin	USA
Walsh, John	International Arctic Research Center, University of Alaska	USA

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Wheeler, Dennis	University of Sunderland	UK
Woods, Cian	Department of Meteorology, Stockholm University	Sweden
Woollings, Tim	University of Reading	UK
Þorsteinsson, Sigurður	Icelandic Met Office	Iceland