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Environment and
Climate Change Canada

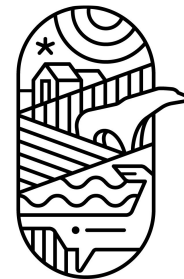
Introducing the Arctic Regional Climate Centre Network (ArcRCC-N)

<https://www.arctic-rcc.org>



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Photo: Helge Tangen



ACF

Arctic Climate Forum



FINNISH METEOROLOGICAL
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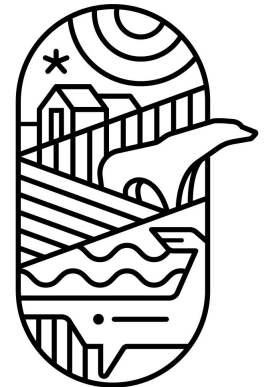
SMHI



Welcome to Arctic Climate Forum number 7

ACF-7

- A forum for Arctic Regional Climate Centre Network to meet stakeholders and users
- Usually: Every spring a face-to-face meeting, this spring (too) converted to online meeting
- Every fall a virtual meeting - like this one



ACF





What's the difference?

Weather



- Conditions of the atmosphere over a short period of time
- Reported in terms of hours and days for a city, town, region

It answers these questions

- *What is the temperature right now?*
- *Will I need a coat this afternoon?*
- *Will it rain this weekend?*

Climate



- Average weather of a place over period of many years
- Tells us what's normal for an area.


It answers these questions

- *What is an average winter like in Reykjavik?*
- *Was 2015 the warmest summer on record?*
- *Will Tromsø have above normal temperatures this summer?*

Climate is what you expect, weather is what you get

(sources: NOAA, NSIDC and WMO and websites)

Scale of Weather and Climate Information

Time Scale	Days	Weeks	Months (sub-seasonal)	Seasons (3 months)	Years	Decades	Centuri es
Weather or Climate Information	Weather forecasting		<div>Arctic Regional Climate Centre</div> <div></div> <div>filling this gap</div>		Satellite and in- situ monitoring	Climate Change Models	
Geographic Scale	Local				Global/Regional		
Sources of Information	National Meteorological Services				<div>•National Meteorological Services</div> <div>•Arctic Report Card</div>	<div>• IPCC assessments</div> <div>• AC Working Group assessments</div>	

ArcRCC products are filling the seasonal gap using

- State of the art modeling for **temperature, precipitation and sea-ice**
- Regional expertise at Meteorological organizations
- By providing operational products for decision-makers every
 - May for the Arctic summer season
 - October for the Arctic Winter season



The Arctic Regional Climate Centre

NATIONAL		REGIONAL		CIRCUMPOLAR
Countries	Meteorological Organizations	Regional Climate Centres (RCCs)		Arctic Regional Climate Centre
United States	NOAA	North American Node	Forecasting	
Canada	ECCC			
Denmark	DMI	Northern European / Greenland Node	Data Services	
Iceland	IMO			
Norway	NMI			
Sweden	SMHI			
Finland	FMI			
Russia	AARI	Northern Eurasia Node	Monitoring	

**Collaboration/Networking across Arctic regional nodes and
Meteorological Organizations**



ArcRCC Products

produced each May and October

1. Arctic Consensus Statement:

Text and graphics that summarize the temperature, precipitation and sea-ice climate trends for the past season and forecasts for the upcoming season. A collaborate effort by the network in reviewing:

- Trends in the historical monitoring data
- Forecasts from the models
- Using Met/Ice climate expertise, fill gaps in the data

<https://arctic-rcc.org/consensus-statements>

2. Regional Summaries

- The same information that is in the consensus statement but organized by Arctic region and added information about potential impacts to regional users.



How is this information different than?

The Arctic Council's Arctic Monitoring and Assessment Programme (AMAP)

- i.e. the Snow Water Ice and Permafrost Assessment (SWIPA) report discusses trends and future predictions, updated once every 5-6 years

National Snow and Ice Data Centre –Arctic Report Card

- Annual Summary of the Arctic climate over the past year

ArcRCC products are ongoing operational Arctic climate summary and forecast products that are updated every Winter and Summer





**World
Meteorological
Organization**

Weather • Climate • Water

Thank you!