









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

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# Welcome to Arctic Climate Forum number 5 ACF-5

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









## 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 snow 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 Ottawa?
- 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		Arctic Regional Climate Centre		Satellite and in- situ monitoring	Climate Change Models	
Geographic Scale	Local		<b>←</b>			Global/Regional	
Sources of Information	g		s gap	National     Meteorological     Services     Arctic Report     Card	<ul> <li>IPCC         assessments</li> <li>AC Working         Group         assessments</li> </ul>		

#### 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



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## **The Arctic Regional Climate Centre**

NATIO	ONAL	REGIO	NAL	CIRCUMPOLAR	
Countries	Meteorological Organizations	Regional Climate Centres (RCCs)			
United States	NOAA	No mble Amazariana	Forecasting	Arctic Regional Climate Centre	
Canada	ECCC	North American Node			
Denmark	DMI		Data Services		
Iceland	IMO	Northern			
Norway	NMI	European /			
Sweden	SMHI	Greenland Node			
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 seaice climate trends for the <u>past</u> season and forecasts for the <u>upcoming</u> 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 <a href="https://arctic-rcc.org/consensus-statements">https://arctic-rcc.org/consensus-statements</a>

### 1. 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 <u>ongoing</u> operational Arctic climate summary and forecast products that are updated every Winter and Summer





# Thank you!