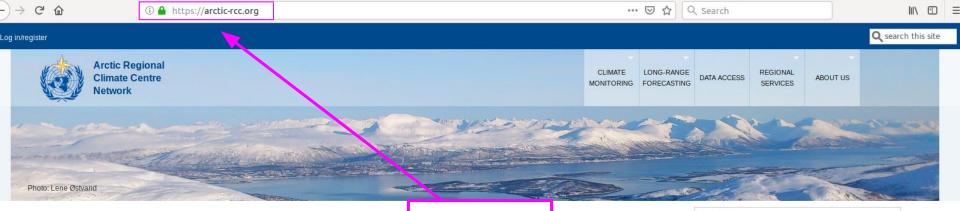
Data services at ArcRCC

Lene Østvand The Norwegian Meteorological Institute



arctic-rcc.org

Welcome to the Arctic RCC Network

RCCs are Centres of Excellence that assist WMO Members in a given region to deliver better climate services and products including regional long-range forecasts, and to strengthen their capacity to meet national climate information needs.

ArcRCC-Network is based on the WMO RCC concept with active contributions from all the Arctic Council member countries through a mutually agreed structure consisting of three sub-regional geographical nodes, namely, (i) North America Node, (ii) Northern Europe and Greenland Node and (iii) Eurasia Node.

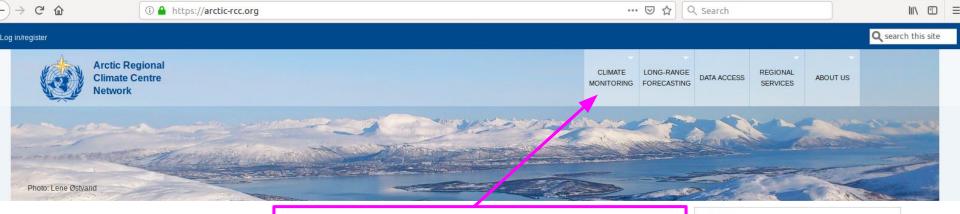
Climate monitoring	Long-range forecasting	Data access
Climate monitoring products to be shown here.	Products like seasonal outlooks.	Search datasets for the Arctic.
Northern Europe and Greenland Node	North American Node	Northern Eurasia Node

News

WMO launches Arctic Regional Climate Centre Network

Submitted by Lene Østvand on Tue, 2018-05-22 09:55

A new Pan-Arctic Climate Outlook Forum has met for the first time to provide predictions for the forthcoming summer season as part of an international drive to improve weather, climate and sea ice forecasts in a region undergoing rapid environmental change. Read the full WMO press release. Tags: news wmo parcof



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Climate monitoring:

• Seasonal reviews

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Long-range forecasting Climate monitoring Data access Climate monitoring products to be shown Products like seasonal outlooks. Search datasets for the Arctic. here. Northern Europe and Greenland North American Node Northern Eurasia Node Node Collaboration between Norway, Sweden, Collaboration between Canada and USA. Led by the Russian Federation. Denmark, Finland and Iceland,

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Long-range forecasting:

Seasonal outlooks

Web map service for sea ice

Information about previous PARCOF's.

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	Photo: Lene Østvand								

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Regional services:

North American Node

Northern Eurasia Node

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Interface for data search. The database already

contain some data for the Arctic.

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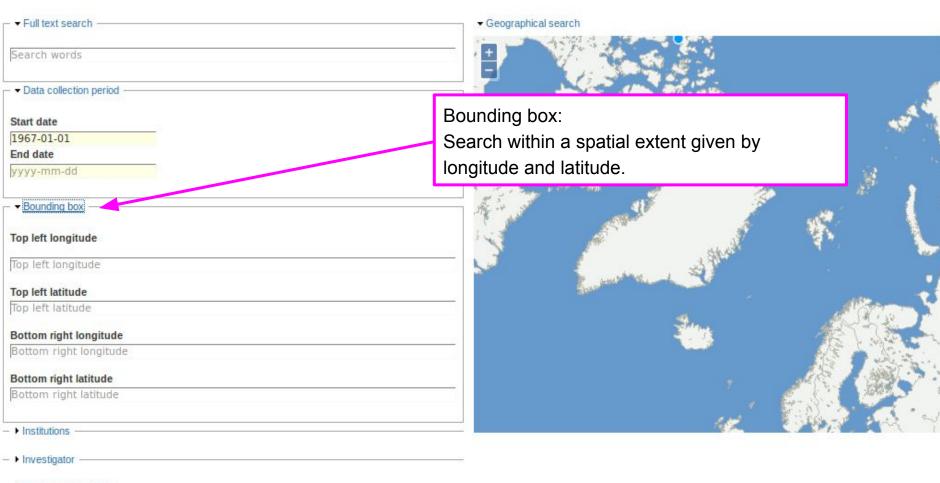
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Geographical search



Institutions:

Check one or more institutions hosting the data sets. Note that institution is not stated in all metadata.

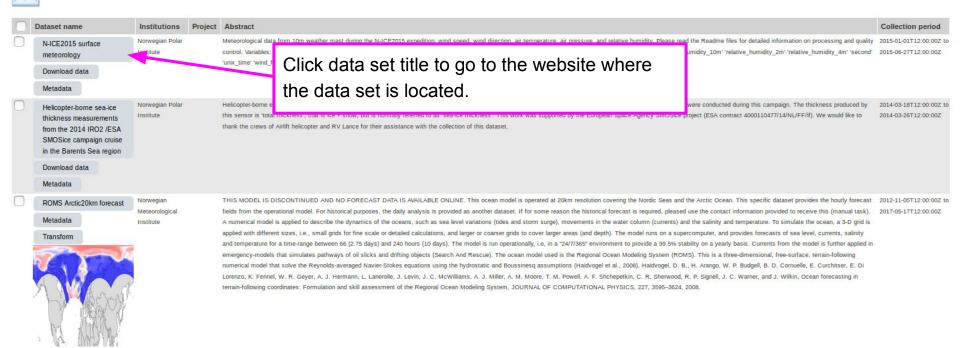


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Search results

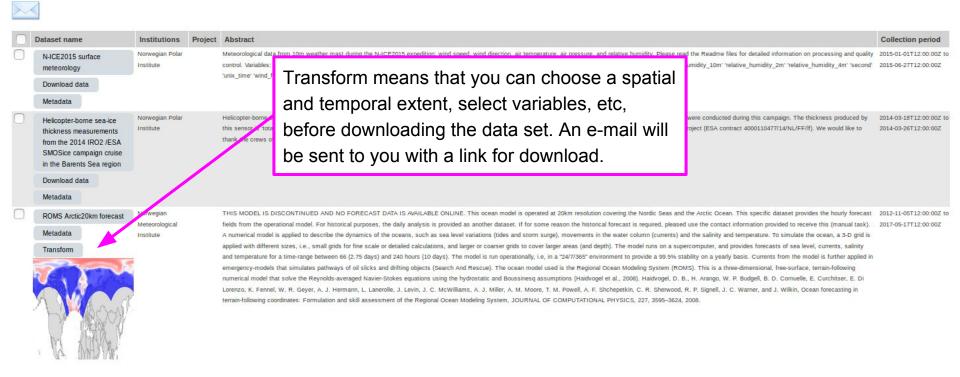


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Search results

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Ö	Dataset name	Institutions	Project	Abstract					
	N-ICE2015 surface meteorology Download data	Norwegian Polar Institute		Meteorological data control. Variables: 'unix_time' 'wind_f	trom 10m weather mast during the N-ICE2015 expedition; wind speed, wind direction, air temperature, air pressure, and relative humidity. Please read the Readme files for detailed information on processing and quality unidity_10m; relative_humidity_2m; relative_humidity_4m; second; Viewing metadata may be useful for, e.g.,				
	Metadata				finding contact information, or viewing key				
	Helicopter-borne sea-ice thickness measurements from the 2014 IRO2 /ESA SMOSice campaign cruise in the Barents Sea region	Norwegian Polar Institute		Helicopter-borne e this sensor is 'tota thank the crews o	words for future searches.	2014-03-18712:00:00Z to 2014-03-26712:00:00Z			
	Download data								
	Metadata								
\Box	ROMS Arctic20km forecast	Norwegian			IS MODEL IS DISCONTINUED AND NO FORECAST DATA IS AVAILABLE ONLINE. This ocean model is operated at 20km resolution covering the Nordic Seas and the Arctic Ocean. This specific dataset provides the hourly forecast 2012-11-0				
	Metadata	Meteorological Institute		fields from the operational model. For historical purposes, the daily analysis is provided as another dataset. If for some reason the historical forecast is required, pleased use the contact information provided to receive this (manual task). 2017-C A numerical model is applied to describe the dynamics of the oceans, such as sea level variations (ides and storm surge), movements in the water column (currents) and the salinity and temperature. To simulate the ocean, a 3-D grid is applied with different sizes, i.e., small grids for fine scale or detailed calculations, and larger or coarser grids to cover larger areas (and depth). The model runs on a supercomputer, and provides forecasts of sea level, currents, salinity and temperature for a time-range between 66 (2.75 days) and 240 hours (10 days). The model is run operationally, i.e., imvinomment to provide a 99.01% stability on a yearly basis. Currents from the model is further applied in emergency-models that simulates pathways of oil slicks and drifting objects (Search And Rescue). The ocean model used is the Regional Ocean Modeling System (ROMS). This is a three-dimensional, free-surface, terrain-following numerical model that solve the Reynolds-averaged Navier-Stokes equations using the hydrostatic and Boussinesq assumptions (Haidvogel et al., 2008). Haidvogel, D. B., H. Arango, W. P. Budgell, B. D. Cornuelle, E. Curchitser, E. Di Lorenzo, K. Fennel, W. R. Geyer, A. J. Hermann, L. Lanerolle, J. Levin, J. C. McWilliams, A. J. Miller, A. M. Moore, T. M. Powell, A. F. Shchepetkin, C. R. Sherwood, R. P. Signell, J. C. Warner, and J. Wilkin, Ocean forecasting in terrain-following coordinates: Formulation and skill assessment of the Regional Ocean Modeling System, JOURNAL OF COMPUTATIONAL PHYSICS, 227, 3595–3624, 2008.					
	Transform								

Search results





Sea ice concentration charts based on a manual interpretation of different satellite data. The main satellite sensor used are the SAR sensor (Synthetic Aperture Radar) suplemented by visual and infrared sensors and data from passive 2010-01-04T12:00:00Z to microwave sensors. As part of the Copernicus project the sea ice concentration product is gridded to a 1km spatial resoluton and converted to a NetCDF format. The concentration intervals follow the World Meteorological Organization (WMO) total concentration standard. A new product is delivered every weekday around 1500 UTC.

Some data sets provides visualization through a web map service.

	Zeppelin Webcamera Time Series	Norwegian Polar Institute	At the [Zeppelin O Ålesund. All andriv namedric. [ZeppPa		
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	Sea Ice Extent	Norwegian Arctic Sea Ice Meteorological		(
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Others allow visualization of a time series.

Could be useful to see if this is the data you are looking for before downloading.

ma of Kongsfjorden. - Webcamera 2 provides a view over Ny-2000-09-17T12:00:00Z to e/zeppelin/camera/Latest/) - Latest Images for webcam 1 are ?an-02.jpg] 3. [zeppPan-03.jpg][https://data.npolar.no/_file opCam2.jpg](https://data.npolar.no/_file/zeppelin/camera/Latest

met.no/indicators/seaiceextent/ for details

1978-11-16T12:00:00Z to 2013-09-16T12:00:00Z Data search can be done without an account.

Some features requires login.

The database will be populated with more data services from the collaborating institutions.

Questions and comments about the website? Use the forum <u>https://arctic-rcc.org/forum</u> or the contact form <u>https://arctic-rcc.org/about-us</u>.