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Lene Østvand
The Norwegian Meteorological Institute

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Climate Centre
Network
(in demonstration phase)

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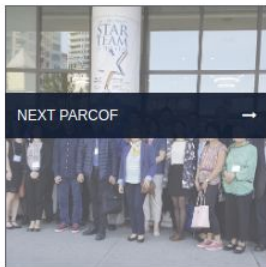
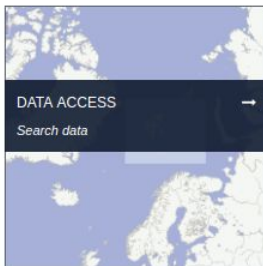
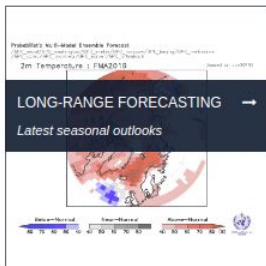
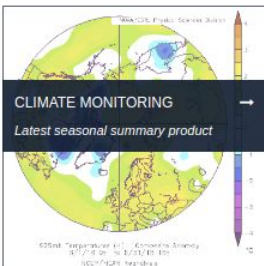
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arctic-rcc.org



News

Pan-Arctic climate outlook forum forecasts above average winter temperatures

Submitted by Lene Østvand on Wed, 2018-11-07 07:54

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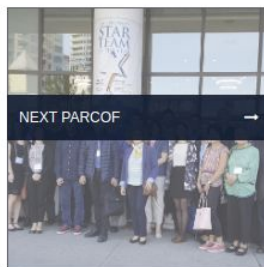
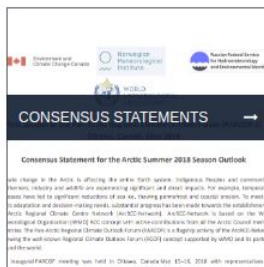
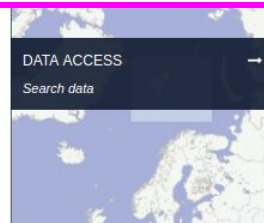
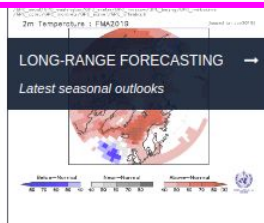
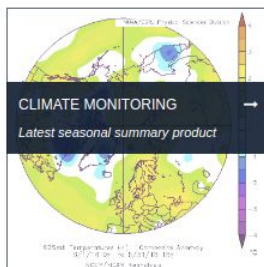
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Climate monitoring:

- Seasonal summary products



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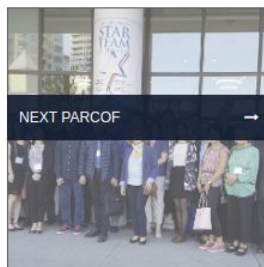
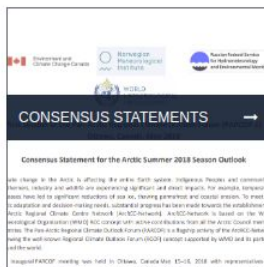
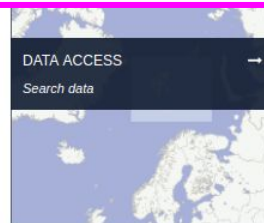
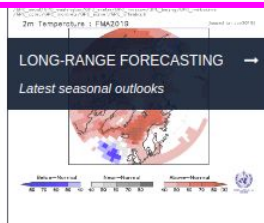
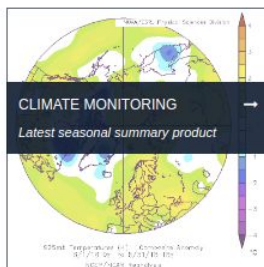
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Long-range forecasting:

- Seasonal outlooks



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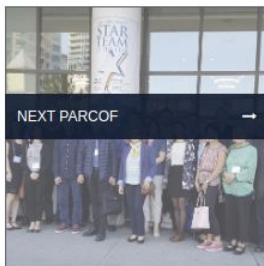
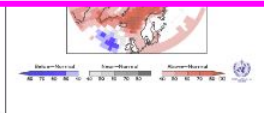
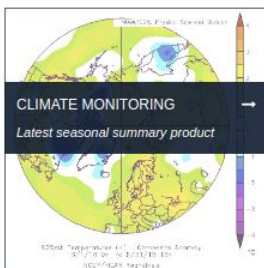
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- Nordic Node
- North American Node
- Northern Eurasia Node



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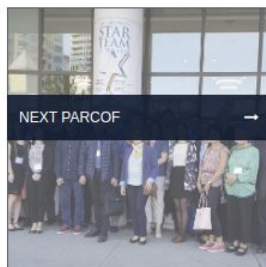
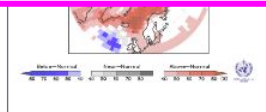
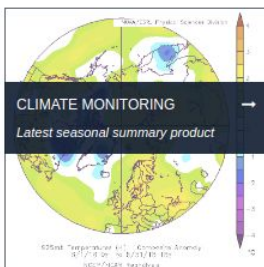
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- News
- Reports



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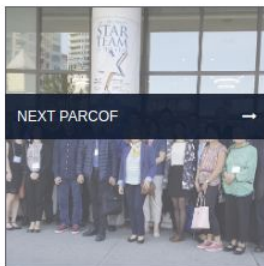
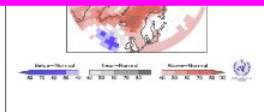
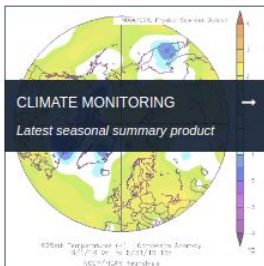
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- Information about previous and upcoming PARCOFs
- Consensus statements



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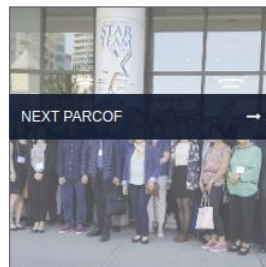
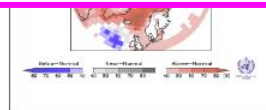
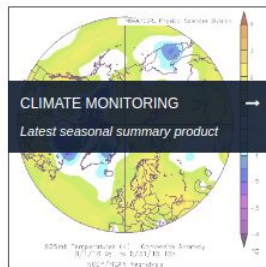
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View

Edit

Forum access requires a registered account.

Can be used for anything of interest, e.g.,
discussion of products, Q&A, etc.



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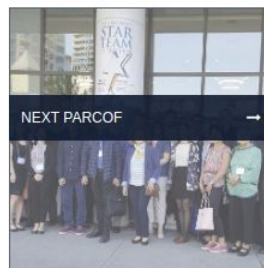
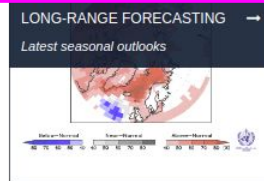
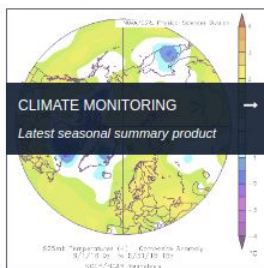
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Interface for data search. The database
already contain some data for the Arctic.



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▼ Full text search

Search words

▼ Data collection period

Start date
1967-01-01

End date
yyyy-mm-dd

► Bounding box

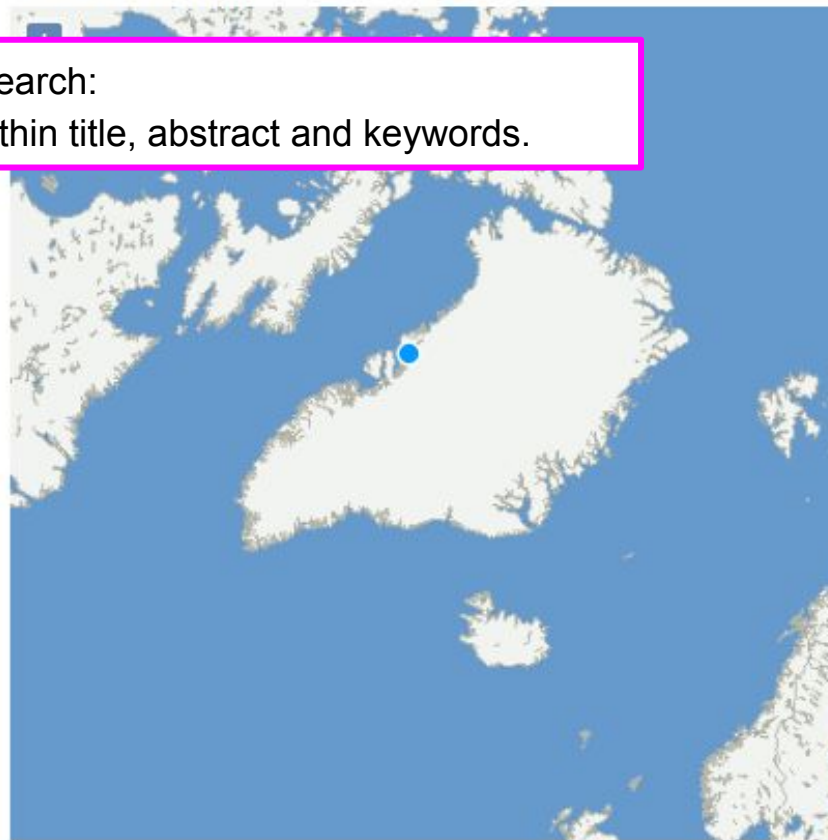
► Institutions

► Investigator

► Topics and variables

Search Reset

▼ Geographical search



Full text search:
Search within title, abstract and keywords.

Data access

▼ Full text search

Search words

▼ Data collection period

Start date

1967-01-01

End date

yyyy-mm-dd

► Bounding box

► Institutions

► Investigator

► Topics and variables

Search Reset

Start date/end date:
Search within a temporal extent.



▼ Full text search

▼ Data collection period

Start date

End date

▼ **Bounding box**

Top left longitude

Top left latitude

Bottom right longitude

Bottom right latitude

► Institutions

► Investigator

► Topics and variables

▼ Geographical search



Bounding box:
Search within a spatial extent given by
longitude and latitude.

▼ Full text search

Search words

Geographical search:
Click the map to define a geographical search
area.

▼ Bounding box

Top left longitude

Top left longitude

Top left latitude

Top left latitude

Bottom right longitude

Bottom right longitude

Bottom right latitude

Bottom right latitude

► Institutions

► Investigator

► Topics and variables

▼ Geographical search



▼ Full text search

Search words

▼ Data collection period

Start date
1967-01-01

End date
yyyy-mm-dd

► Bounding box

▼ Institutions

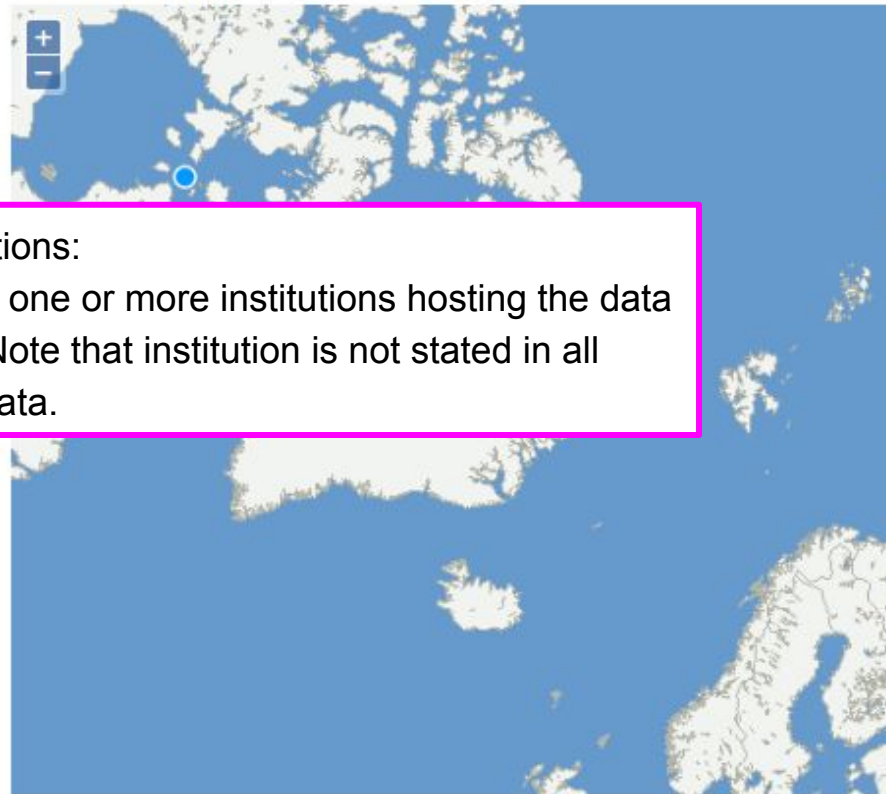
- ☐ European Centre for Medium-Range Weather Forecasts
- ☐ Norwegian Meteorological Institute
- ☐ Norwegian Polar Institute
- ☐ The Arctic University of Norway
- ☐ University of Akron
- ☐ University of Tromso, Norway
- ☐ Northern Research Institute
- ☐ Sysselmannen på Svalbard
- ☐ Naval Research Laboratory, Stennis Space Center

► Investigator

► Topics and variables

Search Reset

▼ Geographical search



Institutions:

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

▼ Full text search

Search words

▼ Data collection period

Start date

1967-01-01

End date

yyyy-mm-dd

► Bounding box

► Institutions

▼ Investigator

Investigator's name

► Topics and variables

Search

Reset

▼ Geographical search



Investigator:
Search the personnel responsible for the data set.

▼ Full text search

▼ Data collection period

Start date

End date

► Bounding box

► Institutions

► Investigator

▼ Topics and variables

- OCEANS > SEA ICE
- ICE
- N-ICE2015
- seaice

Topics and variables:
Search a pre-defined keyword. A list of suggestions appear when you start typing.



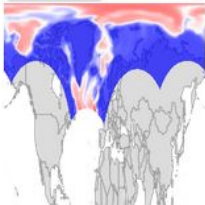


Number of datasets found: 8

Search results



<input type="checkbox"/>	Dataset name	Institutions	Project	Abstract	Collection period
<input type="checkbox"/>	N-ICE2015 surface meteorology Download data Metadata	Norwegian Polar Institute		Meteorological data from 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 control. Variables: 'humidity_10m' 'relative_humidity_2m' 'relative_humidity_4m' 'second' 'unix_time' 'wind_s'	2015-01-01T12:00:00Z to 2015-06-27T12:00:00Z
<input type="checkbox"/>	Helicopter-borne sea-ice thickness measurements from the 2014 IRO2/ESA SMOSice campaign cruise in the Barents Sea region Download data Metadata	Norwegian Polar Institute		Helicopter-borne sea-ice thickness measurements were conducted during this campaign. The thickness produced by this sensor is 'total thickness', that is ice + snow, but is normally referred to as 'sea-ice thickness'. This work was supported by the European Space Agency SMOSice project (ESA contract 4000110477/14/NL/FF/II). We would like to thank the crews of Airlift helicopter and RV Lance for their assistance with the collection of this dataset.	2014-03-18T12:00:00Z to 2014-03-26T12:00:00Z
<input type="checkbox"/>	ROMS Arctic20km forecast Metadata Transform	Norwegian Meteorological Institute		THIS 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 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, please use the contact information provided to receive this (manual task). A numerical model is applied to describe the dynamics of the oceans, such as sea level variations (tides 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., in a "24/7/365" environment to provide a 99.5% 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.	2012-11-05T12:00:00Z to 2017-05-17T12:00:00Z



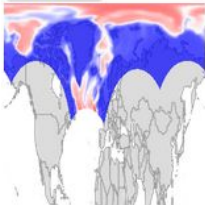
Click data set title to go to the website where the data set is located.



Number of datasets found: 8

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<input type="checkbox"/>	Dataset name	Institutions	Project	Abstract	Collection period
<input type="checkbox"/>	N-ICE2015 surface meteorology	Norwegian Polar Institute		Meteorological data from 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 control. Variables: 'humidity_10m' 'relative_humidity_2m' 'relative_humidity_4m' 'second' 'unix_time' 'wind_s'	2015-01-01T12:00:00Z to 2015-06-27T12:00:00Z
	Download data				
	Metadata				
<input type="checkbox"/>	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	2014-03-18T12:00:00Z to 2014-03-26T12:00:00Z
	Download data				
	Metadata				
<input type="checkbox"/>	ROMS Arctic20km forecast	Norwegian Meteorological Institute		THIS 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 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, please use the contact information provided to receive this (manual task). A numerical model is applied to describe the dynamics of the oceans, such as sea level variations (tides 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., in a "24/7/365" environment to provide a 99.5% 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.	2012-11-05T12:00:00Z to 2017-05-17T12:00:00Z
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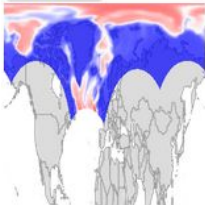
Viewing metadata may be useful for, e.g., finding contact information, or viewing key words for future searches.



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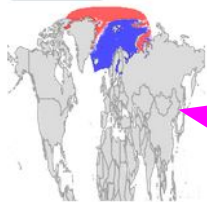
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	Download data				
	Metadata				
<input type="checkbox"/>	Helicopter-borne sea-ice thickness measurements from the 2014 IRO2 /ESA SMOSice campaign cruise in the Barents Sea region	Norwegian Polar Institute		Helicopter-borne sea-ice thickness measurements from the 2014 IRO2 /ESA SMOSice campaign cruise in the Barents Sea region. The measurements were conducted during this campaign. The thickness produced by the helicopter-borne sensor is not yet available for the project (ESA contract 4000110477/14/NL/FF/II). We would like to...	2014-03-18T12:00:00Z to 2014-03-26T12:00:00Z
	Download data				
	Metadata				
<input type="checkbox"/>	ROMS Arctic20km forecast	Norwegian Meteorological Institute		THIS 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 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, please use the contact information provided to receive this (manual task). A numerical model is applied to describe the dynamics of the oceans, such as sea level variations (tides 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., in a "24/7/365" environment to provide a 99.5% 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.	2012-11-05T12:00:00Z to 2017-05-17T12:00:00Z
	Metadata				
	Transform				
					

Transform means that you can choose a spatial and temporal extent, select variables, etc, before downloading the data set. An e-mail will be sent to you with a link for download.

<input type="checkbox"/>	Arctic Sea Ice Svalbard	Norwegian Meteorological Institute	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) supplemented by visual and infrared sensors and data from passive microwave sensors. As part of the Copernicus project the sea ice concentration product is gridded to a 1km spatial resolution 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.	2010-01-04T12:00:00Z to
	Download data			
	Metadata			
	Transform			



Some data sets provides visualization through a web map service.

<input type="checkbox"/>	Zeppelin Webcamera Time Series	Norwegian Polar Institute	At the [Zeppelin O] Alesund. All archiv named L- [zeppPa zeppelin/camera/t /zeppCam2.jpg]	2000-09-17T12:00:00Z to
	Download data			
	Metadata			

<input type="checkbox"/>	Sea Ice Extent	Norwegian Meteorological Institute	Arctic Sea Ice Ext	1978-11-16T12:00:00Z to 2013-09-16T12:00:00Z
	Download data			
	Metadata			
	Visualize			
	ASCII			

Others allow visualization of a time series.

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

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, feedback on the website
and ArcRCC communications