



WP 10 Products



PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

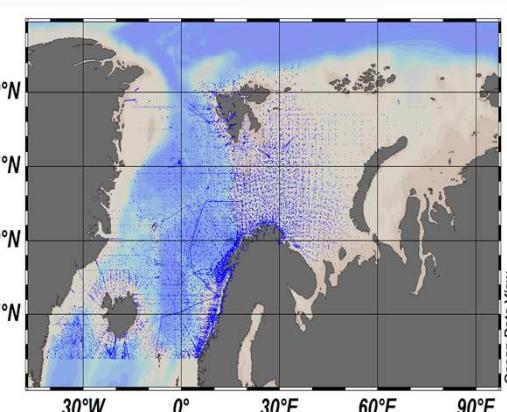
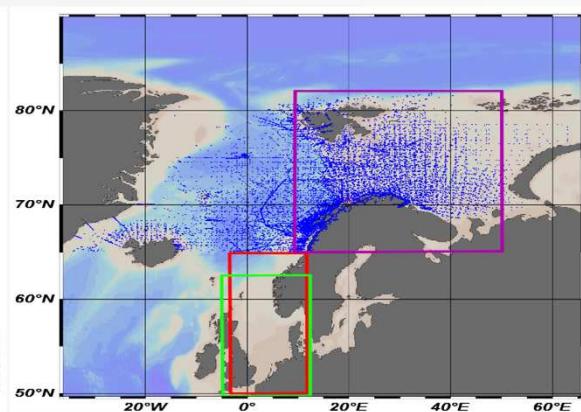
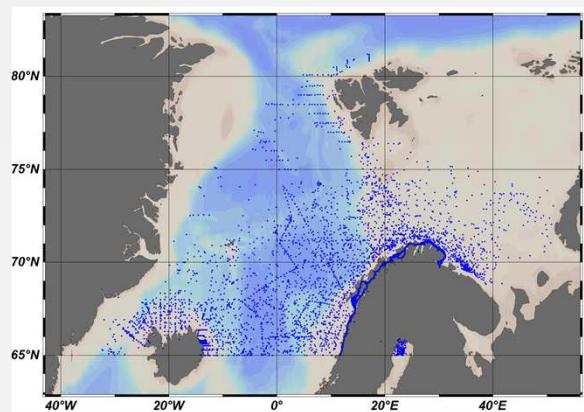
WP10 Products – Report on Arctic Waters

Helge Sagen, Institute of Marine Research, Norway



Dataset collection – Arctic Waters

	V1	V1.1	V2
Series T	398051	403904	7532
Profiles TS	9660	41377	258981
Total	407711	445281	266513



Sextant catalogue – Arctic Waters

Dataset V1.1 Arctic Ocean T and S observation collection

Arctic Ocean - Temperature and salinity observation collections V1.1

PRODUCT IDENTIFICATION	
Title	Arctic Ocean - Temperature and salinity observation collections V1.1
External shortname	seadatynet-arctic_sea-temperature_salinity_aggregated_public-v1_1
	
Seadatynet Temperature and Salinity historical data collection, including revised quality flags after quality control with ODV.	
Abstract	
Descriptive keywords	
Feature type	point
Sea areas	Arctic Ocean
Ocean discovery parameters	Temperature of the water column
Ocean chemistry variable	Salinity of the water column
Usage license	ITS-90 water temperature
SPATIAL-TEMPORAL EXTENT	Water body salinity
Geographical extent	Seadatynet licence
Geographic bounding box	 82.00 -40.00 65.00 65.00 1 km WGS 84 (EPSG 4326)
Spatial resolution	3000.0
Coordinate reference system	0.0
Vertical extent	28
Min depth (meters)	1900-01-01
Max depth (meters)	2013-12-31
Number of vertical levels	1 month
Temporal extent	full collection dataset
Start date	
End date	
Temporal resolution	
ONLINE RESOURCE	
Download (link)	IFREMER / IDM/SISMER sismer@ifremer.fr http://seadatynet.mars2.nl/v_edmo/print.asp?n_code=486
CONTACT	Institute of Marine Research post@imr.no http://seadatynet.mars2.nl/v_edmo/print.asp?n_code=1351
METADATA	
Internal permanent shortname	OdB19edc-846c-4e2c-beff-451762b70578
Creation date	2014-11-12
Update date	2012-08-28
Version	1.1

Dataset V2 Arctic Ocean T and S observation collection

Working on QC



SeaDataNet

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Climatologies V1.1

Used diva 4.6.8 on the SeaDataNet **V1.1** data in the Arctic Ocean.

Monthly data, Temperature and Salinity

Year **19002013**

param.par xori **-40** yori **65**; dx **0.2** dy **0.1**; nx **526** ny **171**

contour.depth 3000,2500,2000,1750,1500,1400,1300,1200,1100,
1000,900,800,700,600,500,400,300,250,200,150,125,100,75,50,30,20,10,0

Temperature.bounds **-3** to **21**

Salinity.bounds **25** to **36**

Quality flags **0 1 5**

No reference field, Diva interpolate to the mean of the data.

Two4D netCDF files, each of 900MB as the result.

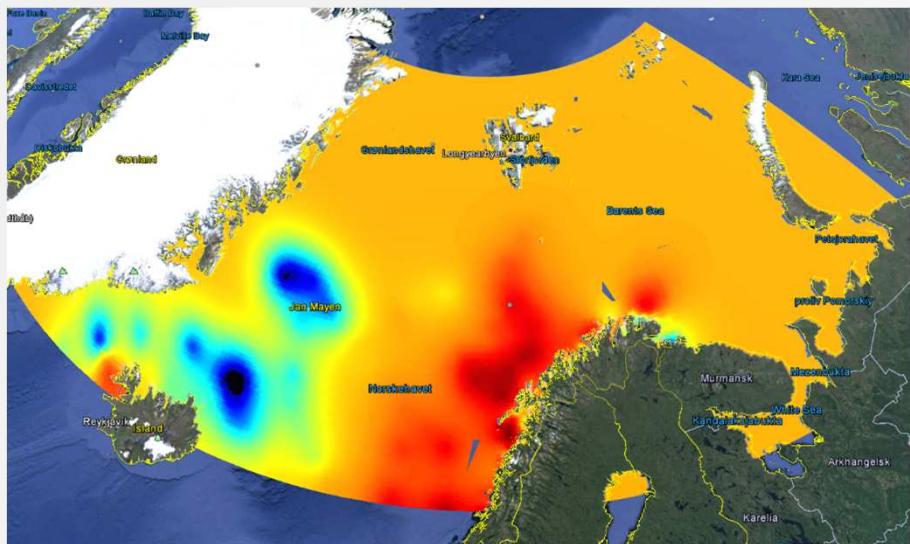


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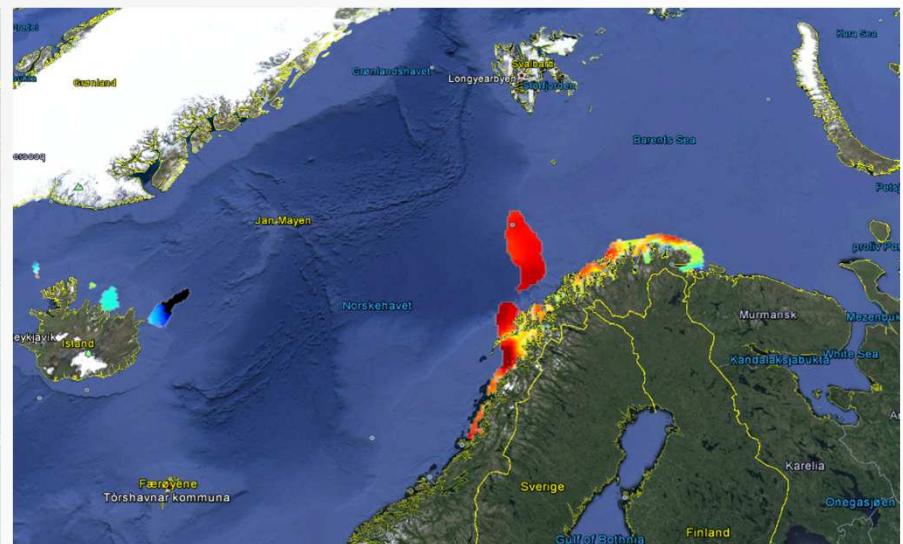
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Climatology V1.1

Temperature at Surface
December 1990-2013
Background is mean of data



Temperature at Surface
December 1990-2013
Masked 50% threshold errorfield



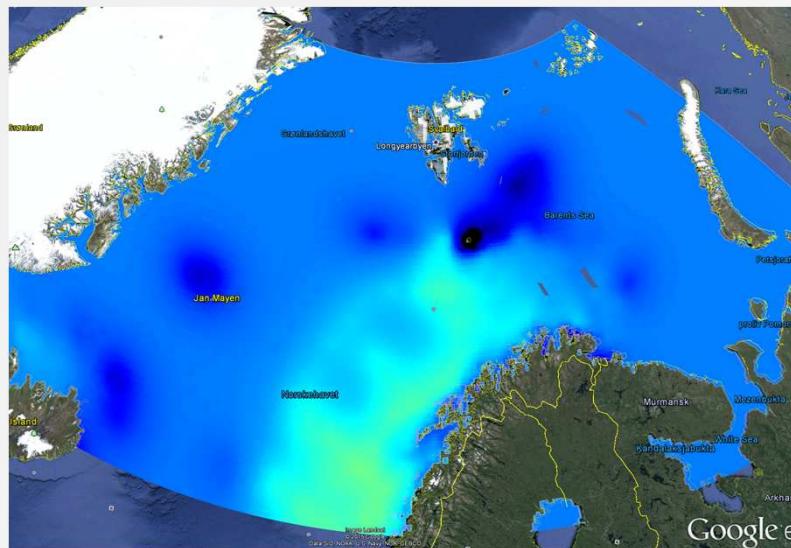


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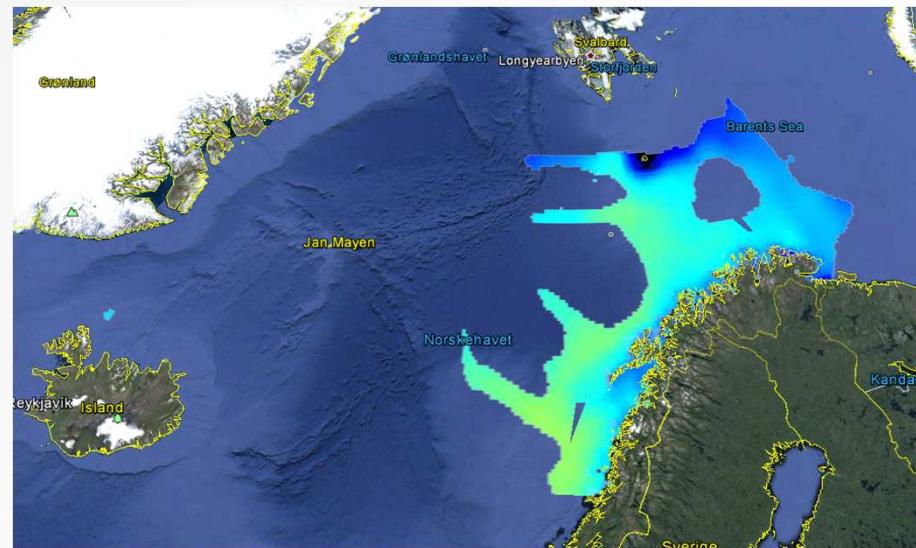
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Climatology V1.1

Temperature at Surface
March 1990-2013
Background is mean of data



Temperature at Surface
March 1990-2013
Masked 50% threshold errorfield



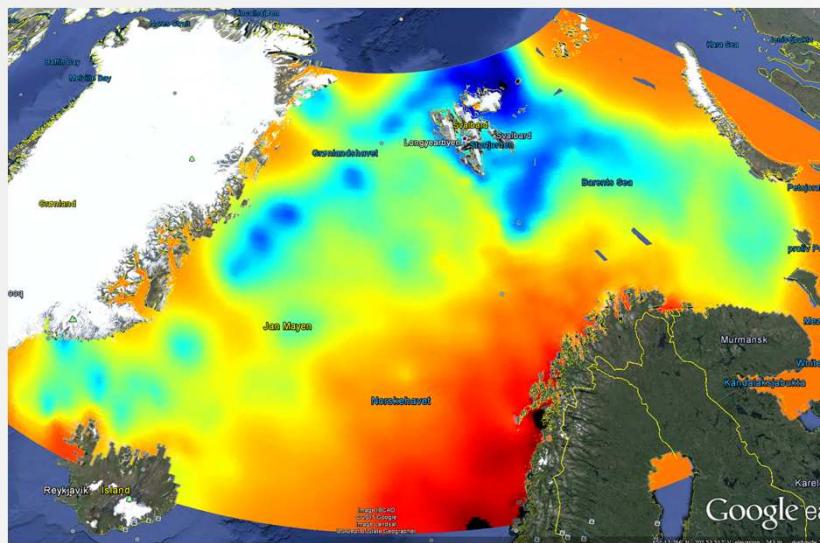


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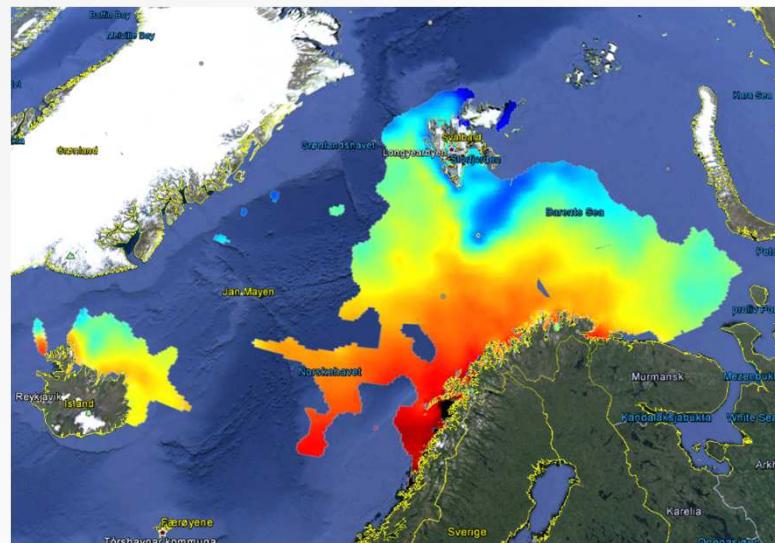
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Climatology V1.1

Temperature at Surface
August 1990-2013
Background is mean of data



Temperature at Surface
August 1990-2013
Masked 50% threshold errorfield



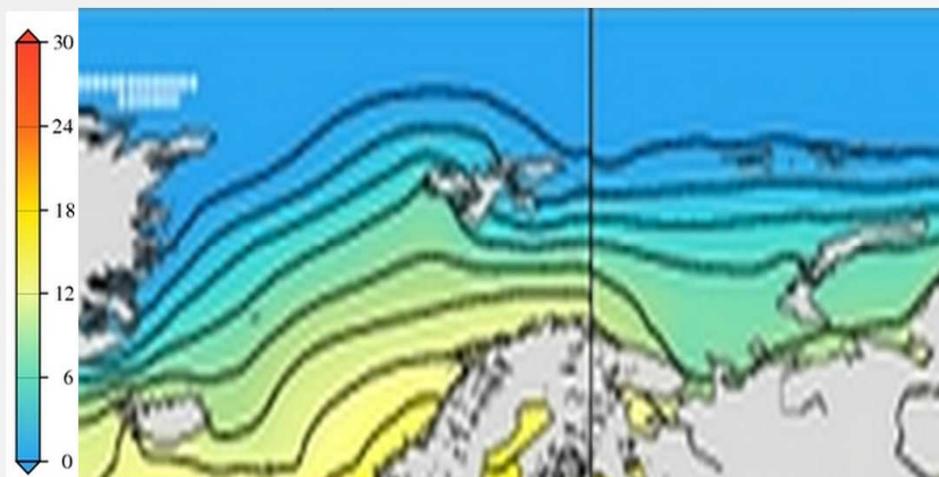


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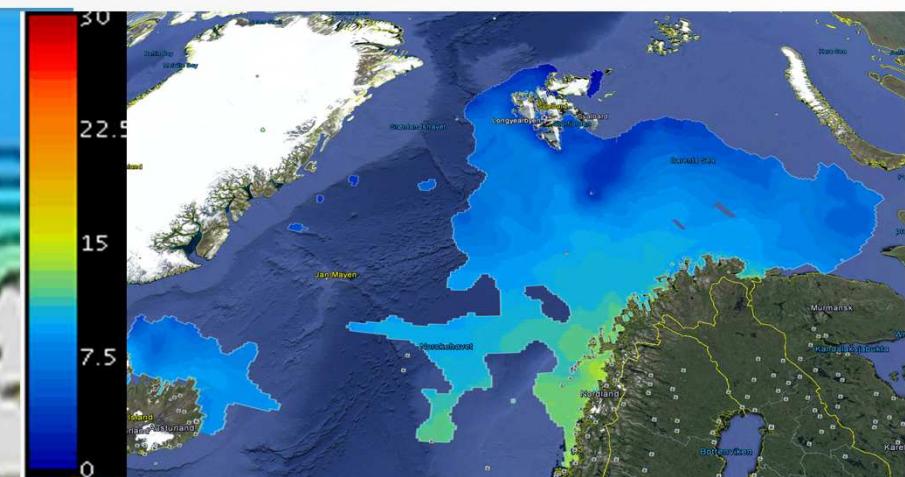
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Validation WOA13 and V1.1

Temperature at Surface
August 1995-2004



Temperature at Surface
August 1990-2013
Masked 50% threshold errorfield



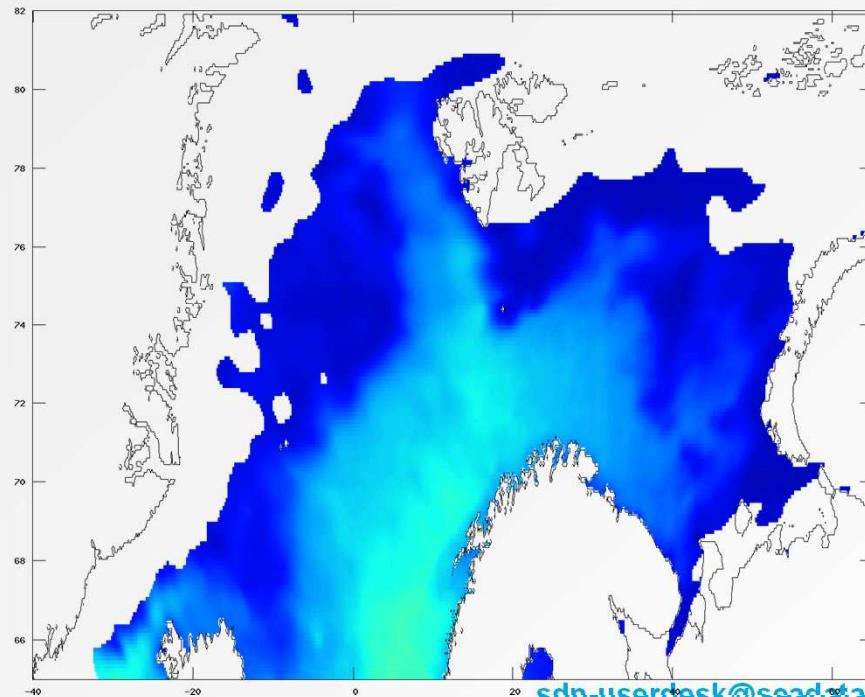


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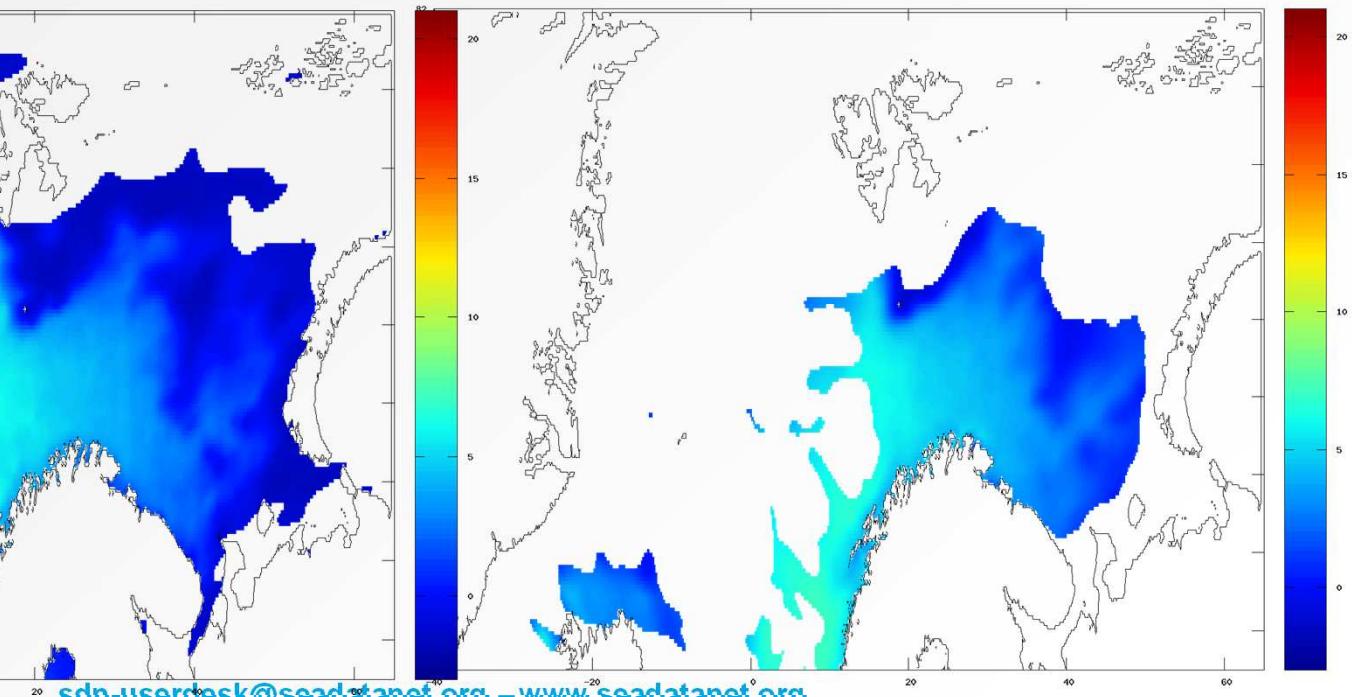
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Comparing data in WOD13 to SDN V1.1

WOD13 1970-2014
Temperature at Surface



SDN V1.1 1970-2014
Temperature at Surface
Masked 50% threshold errorfield





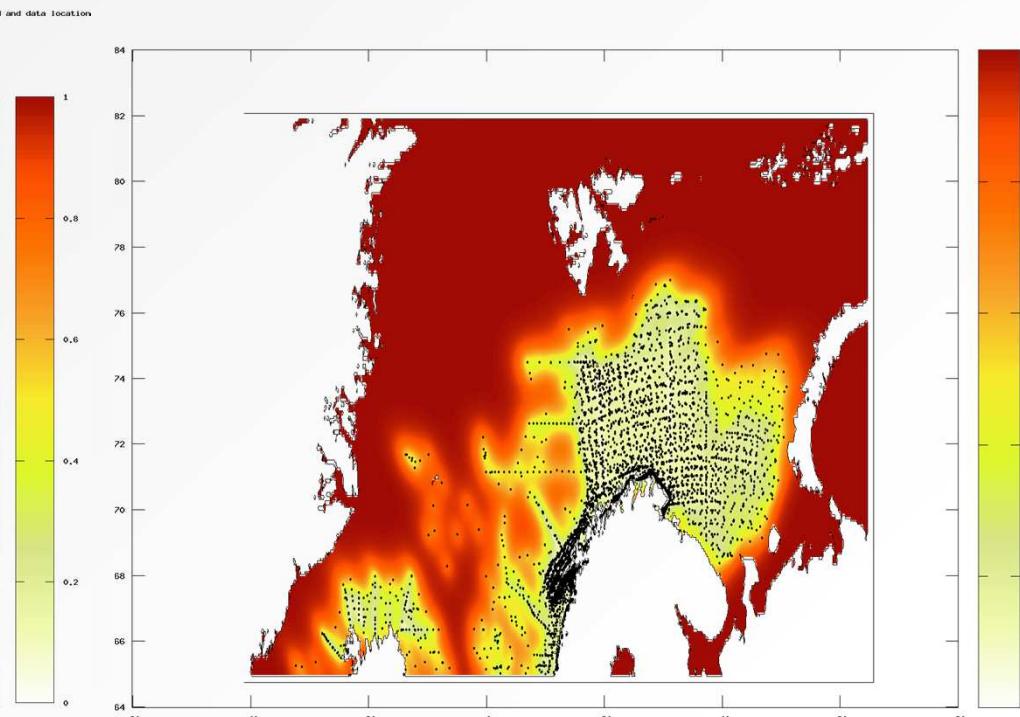
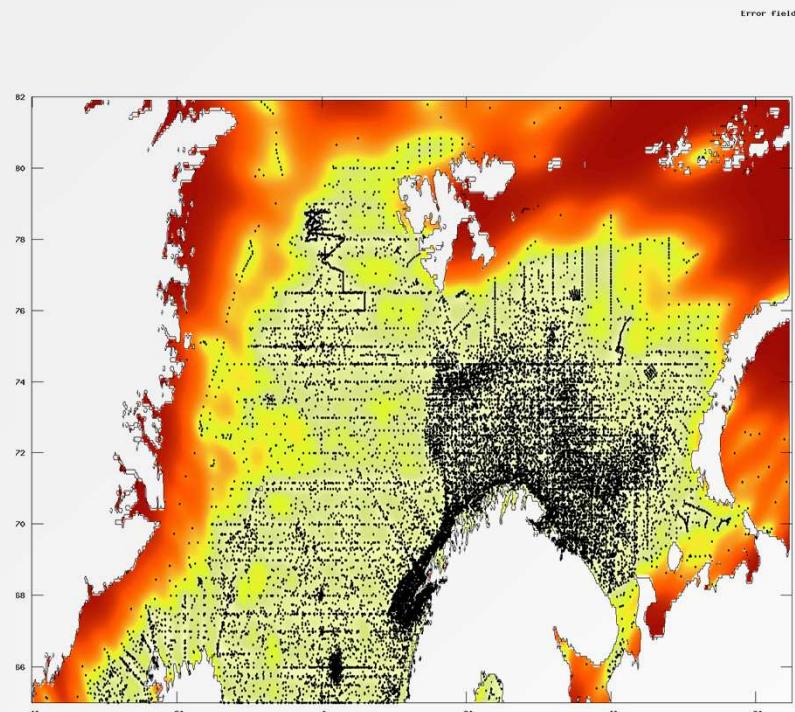
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Comparing data in WOD13 to SDN V1.1

WOD13 1970-2014
Errorfield and data at Surface

SDN V1.1 1970-2014
Errorfield and data





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Future work on V2 data (right is V1.1)

