

Volume 1. Climatic Atlas of the Barents Sea 1998: Temperature, salinity, oxygen

Murmansk Marine Biological Institute
Kola Scientific Center
Russian Academy of Sciences



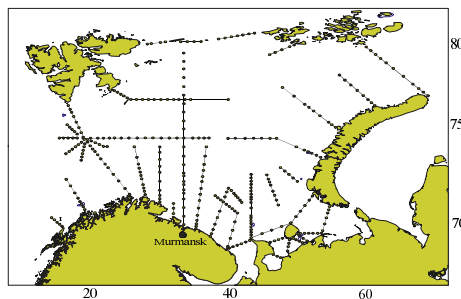
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G. Matishov, A. Zuyev, V. Golubev, N. Adrov, V. Slobodin (Russia), S. Levitus, I. Smolyar (USA)

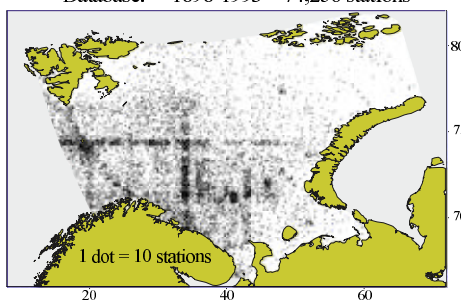
Results:

- Database on the CD-ROM. 1898-1993; 74,256 stations
- Temperature, salinity monthly climatology
- Temperature, salinity time series

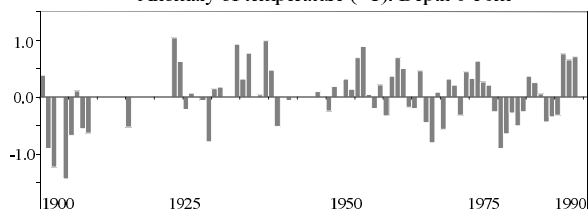
Observation network of the Barents Sea



Database. 1898-1993 74,256 stations



Anomaly of temperature (°C). Depth 0-50m



MESSAGE FROM THE MURMANSK REGIONAL GOVERNOR



Dear Arctic Researchers,

For the people of the Murmansk Region, the Barents Sea is a critical element of their everyday life. This is because a rather substantial part of our industrial and social infrastructure is connected with the wise use and efficient operation of the resources of the Barents Sea. In this respect, multidisciplinary scientific research on Barents Sea is an activity of primary importance.

During the last two centuries, Russia has launched a large number of expeditions to the Barents Sea. World renowned scientists N. Knipovich and K. Deryugin have set up in the Kola Peninsula a well-known scientific school which, owing to the devotion of their followers, takes a leading role in Arctic research.

Successful exploration of boreal seas demands that knowledge, experience, and information accumulated over time be passed from one generation of naturalists to another, without any loss. That is why the present work of Murmansk scientists and their American colleagues, on the compilation of the Climatic Atlas of the Barents Sea and preservation of this unique data, is a crucial landmark in the successful development of research. As well, this joint work is an example of intelligent, mutually beneficial cooperation, particularly for climate research.

Governor of the Murmansk Region
Yury Yevdokimov
April, 1998

Volume 2. Biological Atlas of the Arctic Seas 2000: Plankton of the Barents and Kara Seas

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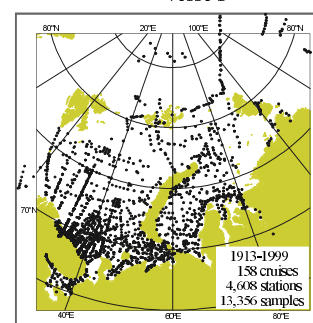
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G. Matishov, P. Makarevich, S. Timofeev, L. Kuznetsov, N. Druzhkov, V. Larionov, V. Golubev, V. Denisov, A. Zuyev, G. Ilyin, N. Adrov, S. Denisenko, N. Savinov, A. Shavikyn, A. Kuznetsov (Russia), I. Smolyar, S. Levitus, T. O'Brien, O. Baranova (USA)

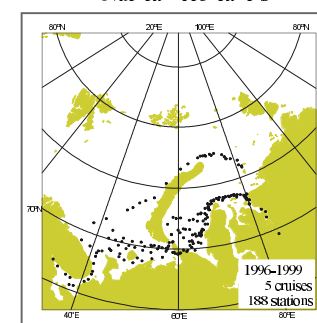
Results:

- Database on the CD-ROM. 1913-1999; 158 cruises; 4,608 stations
- Distribution patterns of physical and biological variables
- List of plankton taxa of the Arctic Seas
- Quality control ranges for plankton data
- Changes of the plankton community
- Comprehensive literature review
- Photos of phytoplankton taxa

All vessels



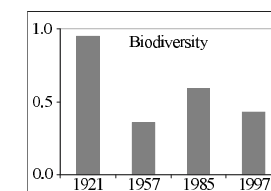
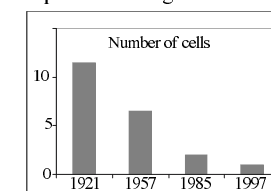
Nuclear icebreakers



Dominant taxa of the Arctic Seas



Zooplankton changes. Barents Sea



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