



OCEAN DATA VIEW

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- <https://classroom.oceanteacher.org>



- **Data Management**
- **Marine Meteorology**
- **Ocean Observation**

Topics include Marine GIS, Bio Geography, Cruise Planning and Oceanographic Sampling



- **Information Management**
- **Disaster Recovery**

Topics include Digital Asset Management, E-repositories, Disaster Planning and Recovery.



- **Marine Spatial Planning**
- **Tsunami**
- **GIS**

Topics include Coastal and Marine Spatial Planning and Management



- **OBIS**
- **Harmful Algal Blooms**

Topics are related to marine biodiversity data and information management.

Marine Data Literacy 2.0

- <http://www.marinedataliteracy.org/index.html>



- SAGA для работы с GIS данными (windows, Linux)



- IDV (Integrated DATA Viewer) (windows, Linux, MacOS)



- ODV (Ocean Data View)
- (windows, Linux, MacOS)

Ocean Data View <https://odv.awi.de>

[Data](#)[Software](#)[Documentation](#)[Links](#)[ODV Forum](#)

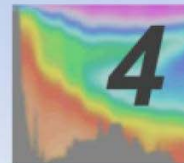
Latest ODV Version: **ODV 5.0.0** (Mar 19 2018; [What is new in ODV 5.0.0](#))

Ocean Data View (ODV) is a software package for the interactive exploration, analysis and visualization of oceanographic and other geo-referenced profile, time-series, trajectory or sequence data. ODV runs on Windows, Mac OS X, Linux, and UNIX (Solaris, Irix, AIX) systems. ODV data and configuration files are platform-independent and can be exchanged between different systems.

Use ODV to produce:

- [property/property plots of selected stations](#),
- [scatter plots for sets of stations](#),
- [color sections along arbitrary cruise tracks](#),
- [color distributions on general isosurfaces](#),
- [temporal evolution plots of tracer fields](#),
- [differences of tracer fields between repeats](#),
- [geostrophic velocity sections](#),
- [animations \(3MB\)](#)
- [interrupted maps](#).

Ocean Data View

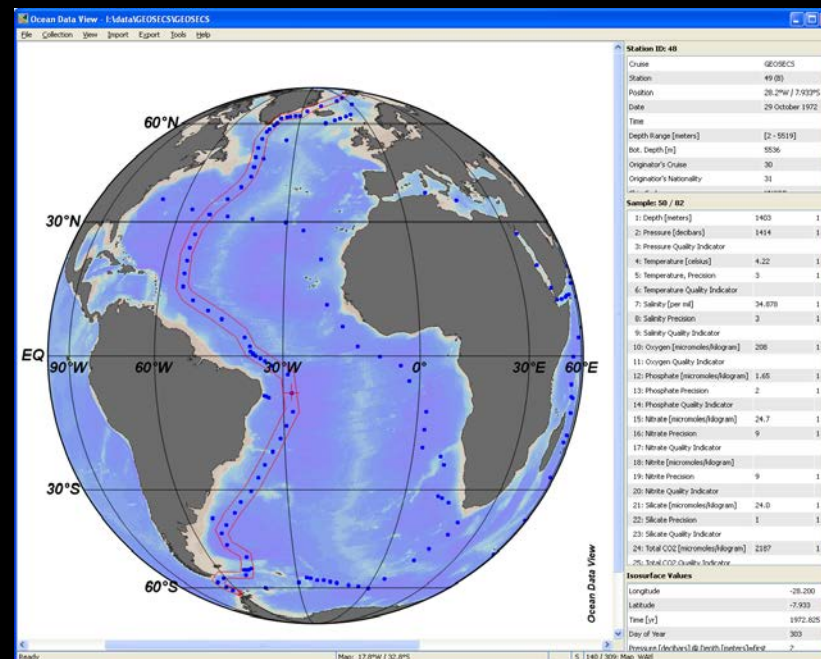
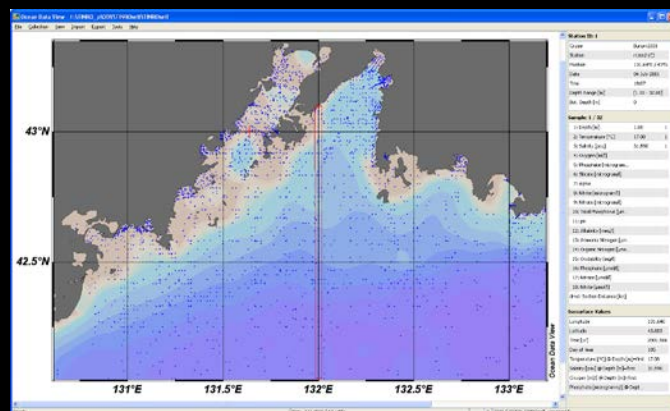
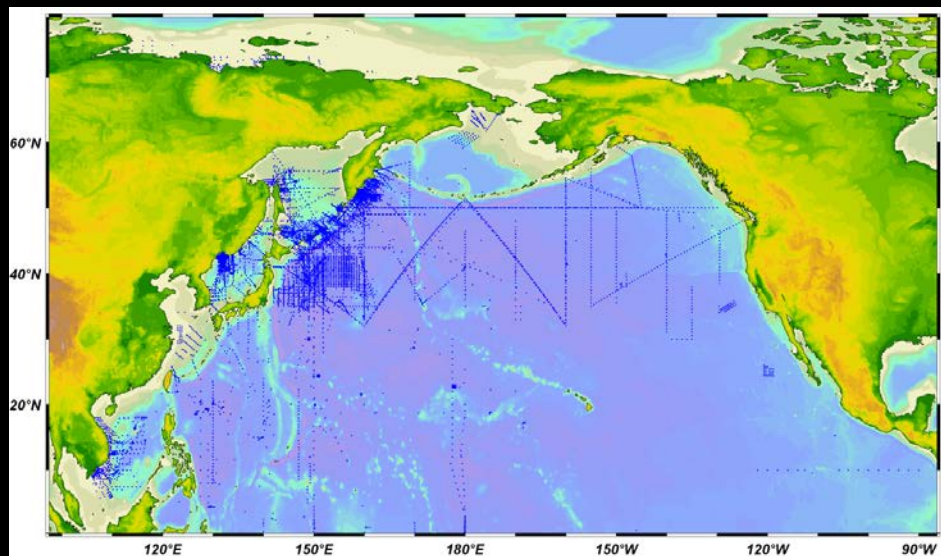
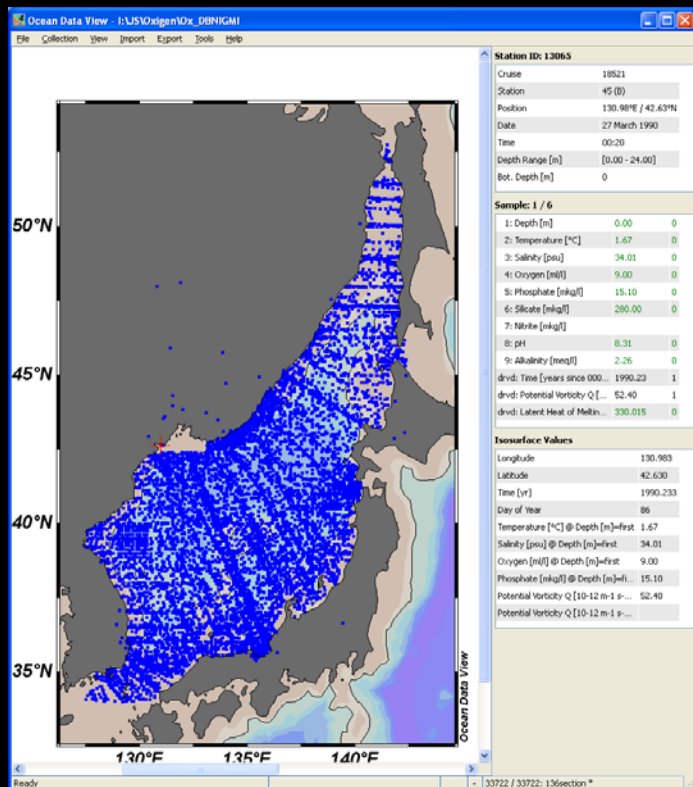


<http://odv.awi.de>

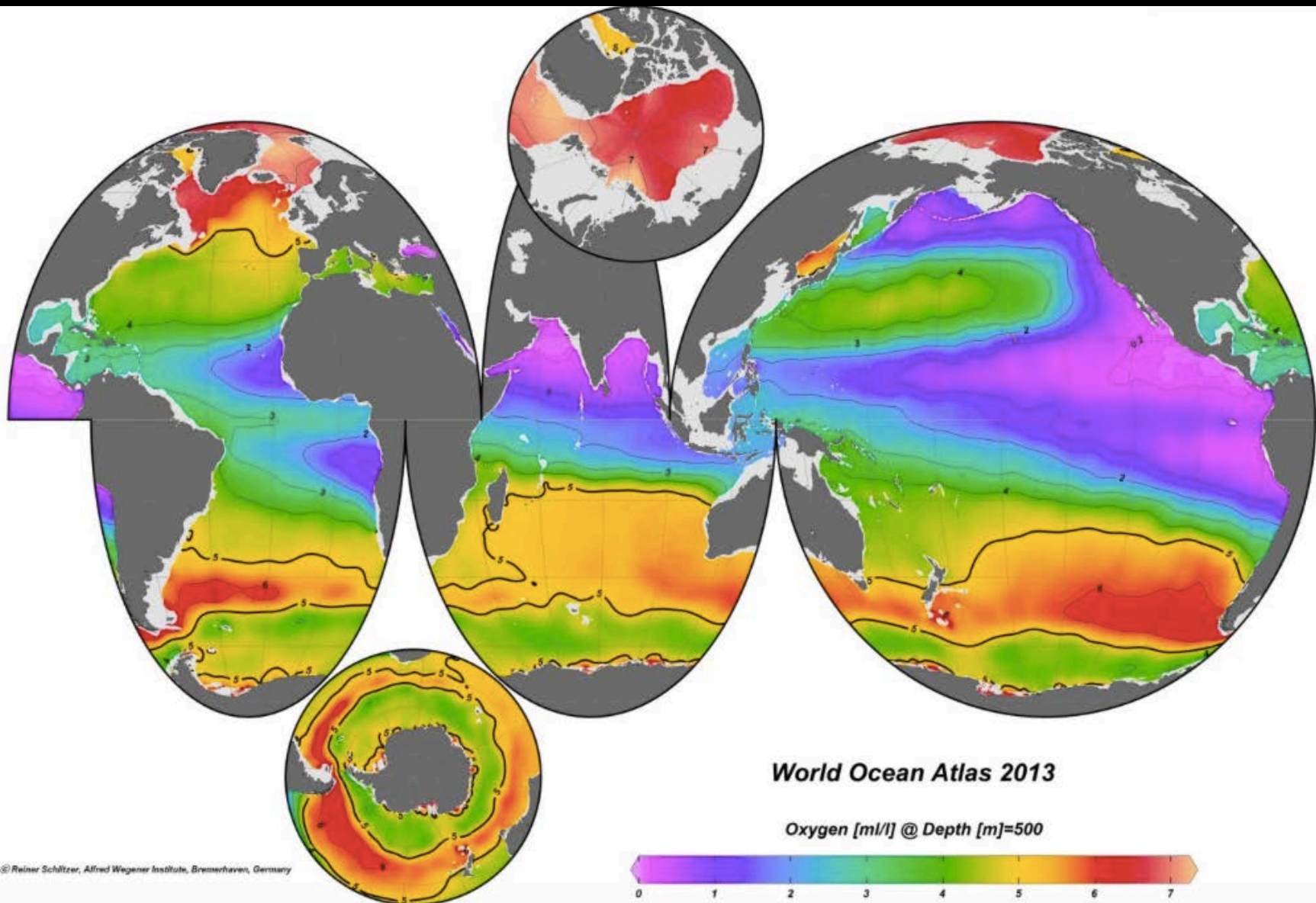
© 2015 Reiner Schlitzer

Усваивает данные проектов Арго, базы данных мирового океана, Атласа мирового океана (Левитус), эксперимента по циркуляции Мирового океана (WOCE), SeaDataNet и Medatlas - данные могут быть непосредственно импортированы в ODV. Существуют готовые к использованию версии данных Woce, World Ocean Atlas 2009, 2005 и 2001 годах, и еще много важных прикладных коллекций. ODV также поддерживает формат netCDF и позволяет исследовать и визуализировать CF, COARDS, GDT и CDC совместимые с netCDF.

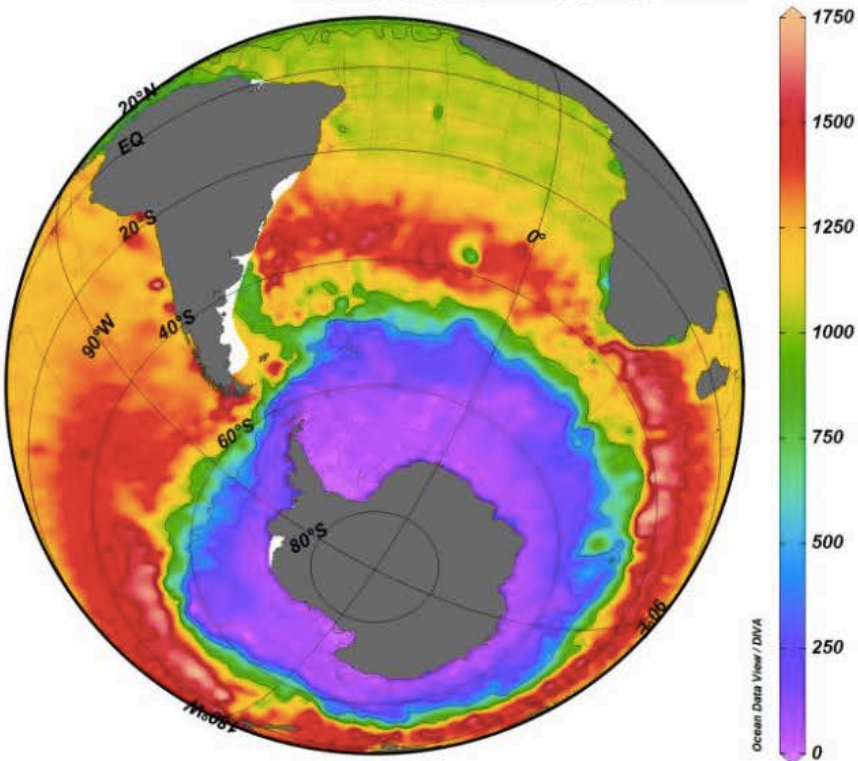
Режим отображения карт



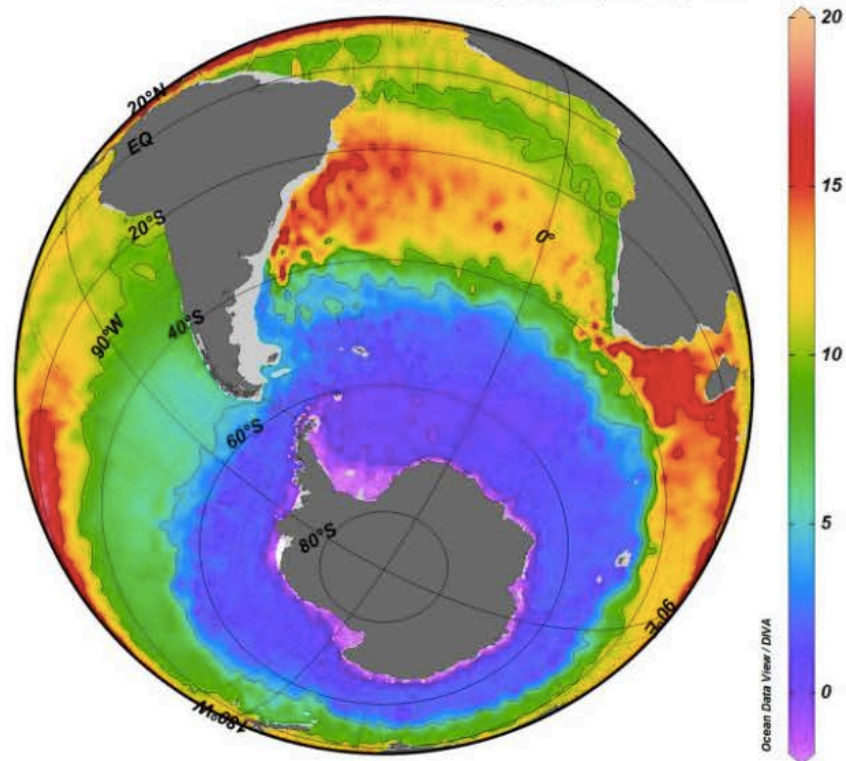
Различные проекции карт



Depth [m] @ Sigma-0 [kg/m^3]=27.500

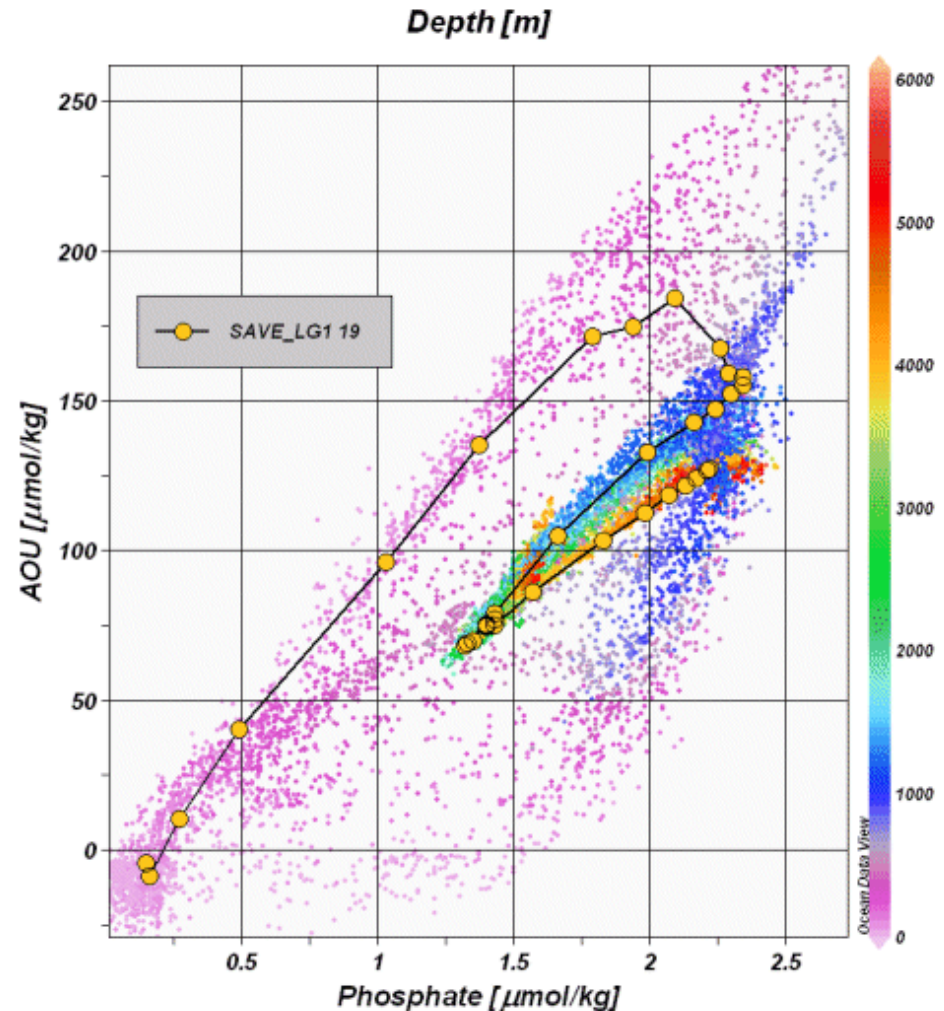
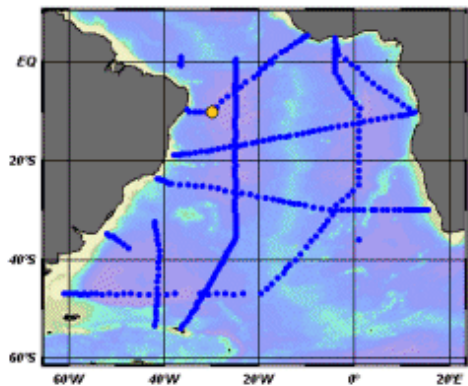
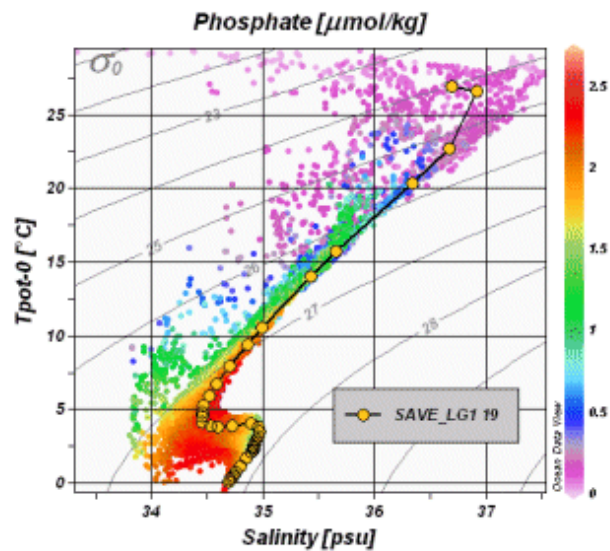


Temperature [C] @ Depth [m]=300



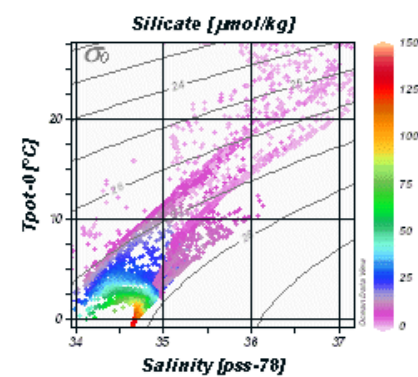
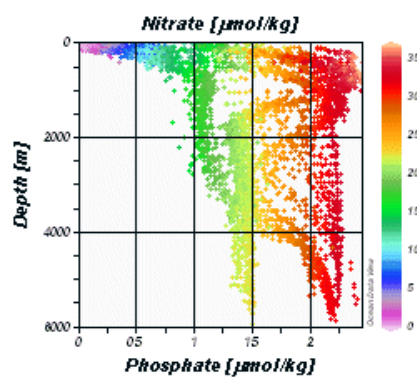
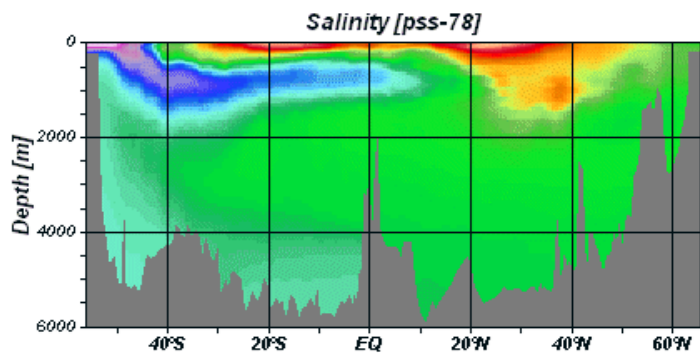
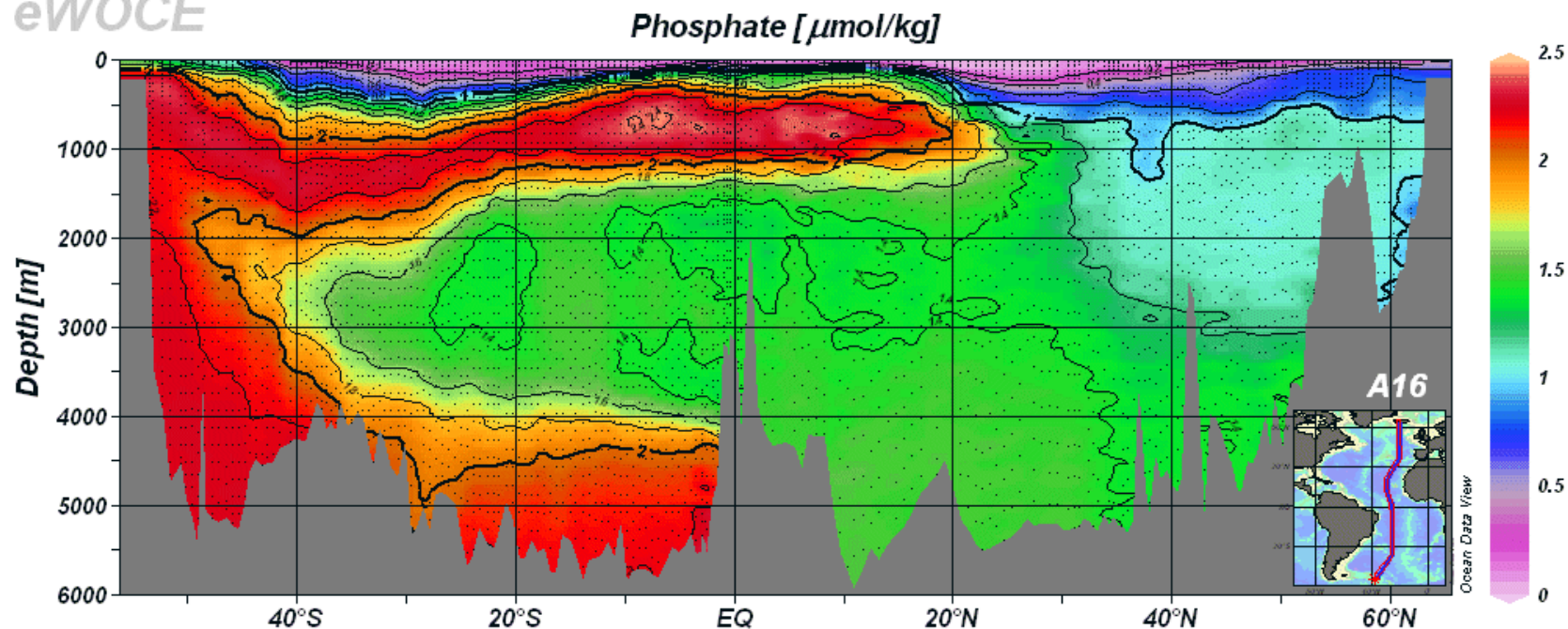
Разброс данных (Scatter):

все данные на одном графике

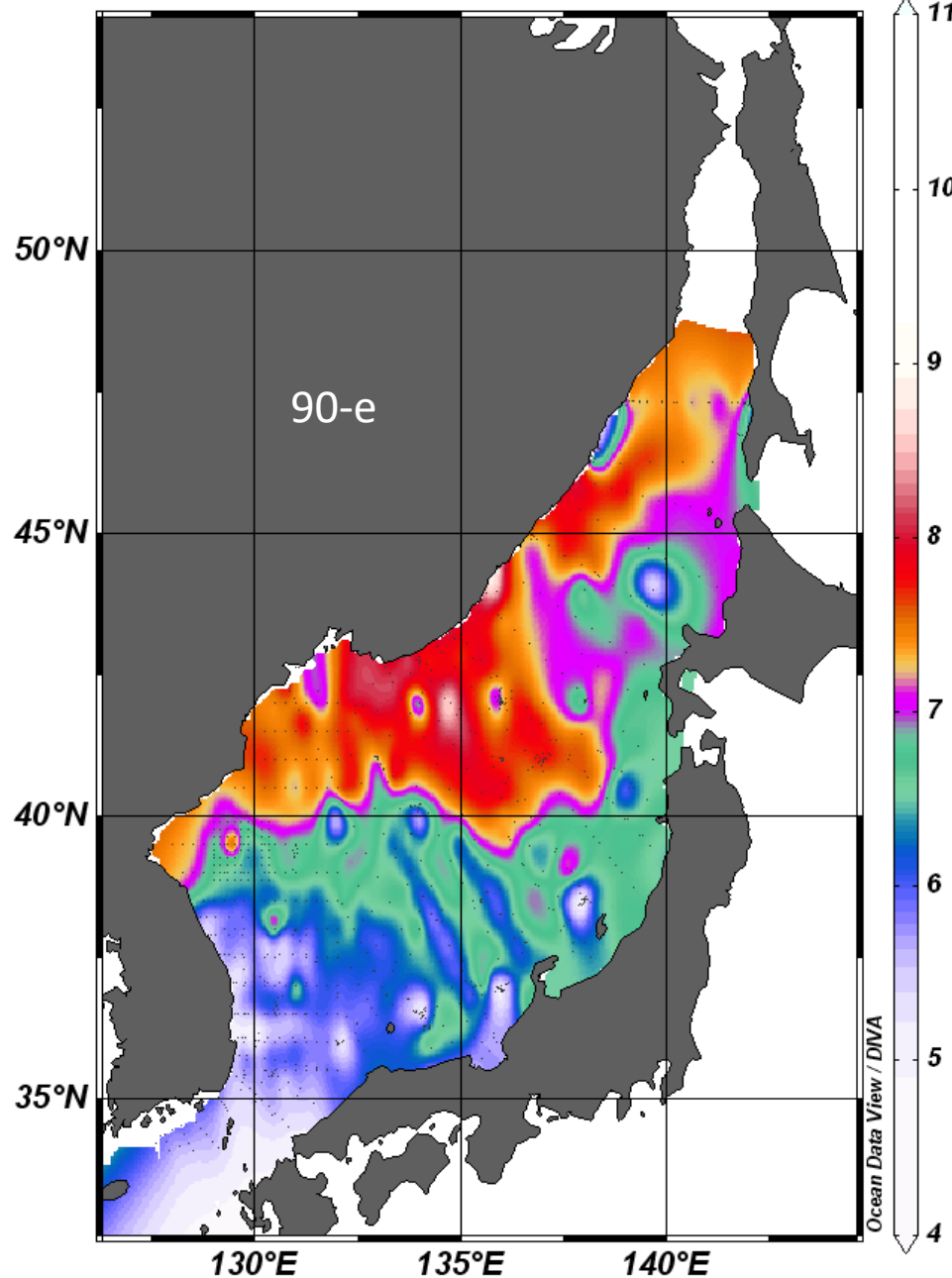


Разрезы

eWOCE

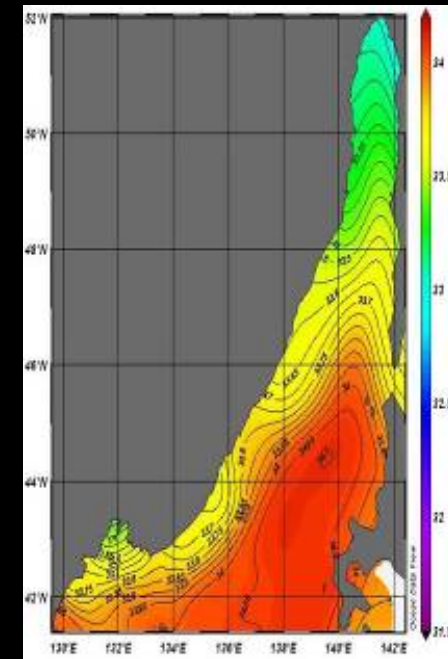
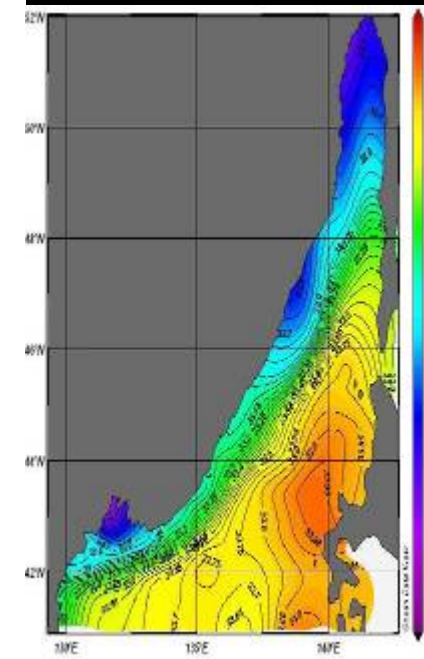


Oxygen [ml/l] @ Depth [m]=25

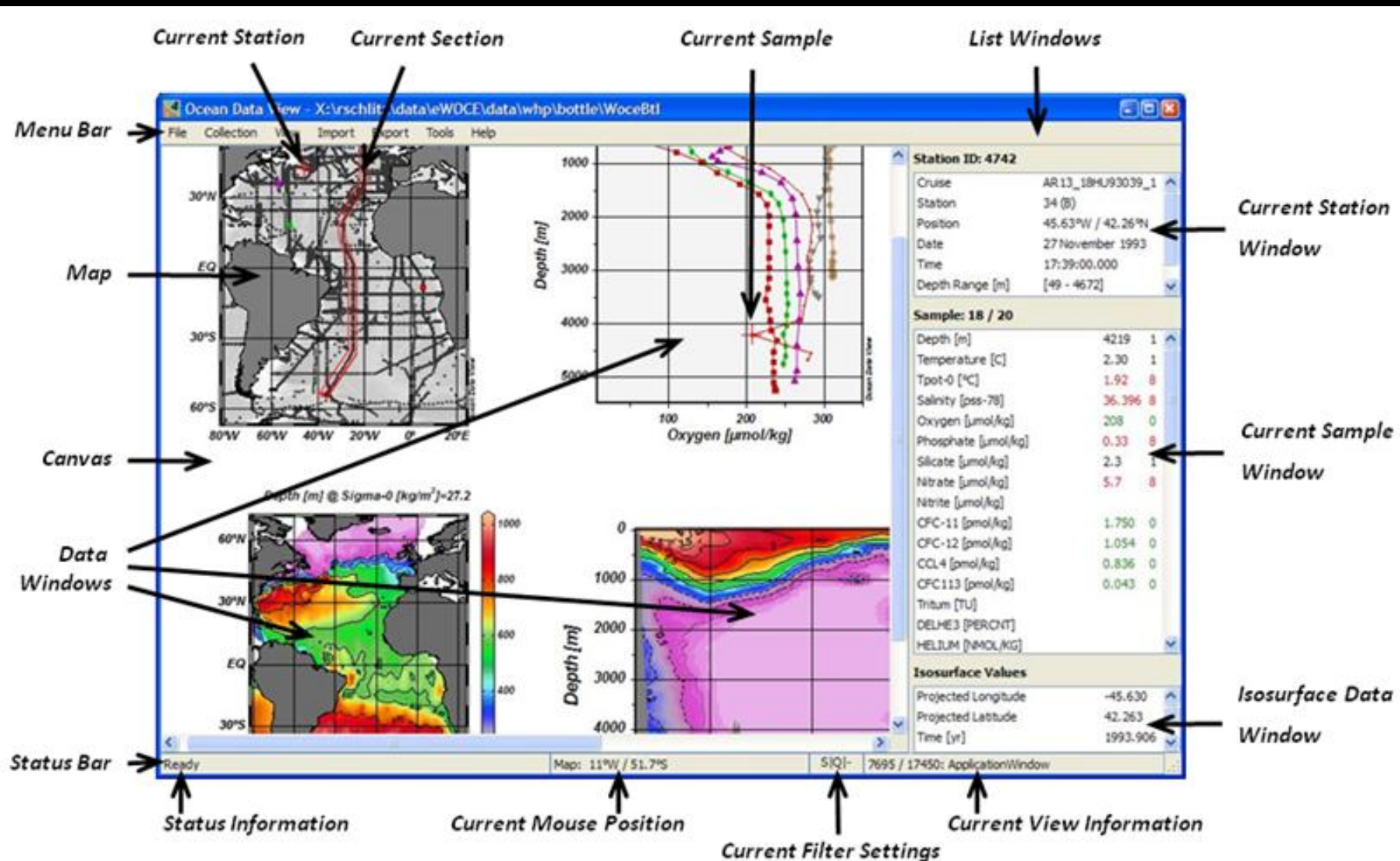


Данные по горизонтам и в разное время

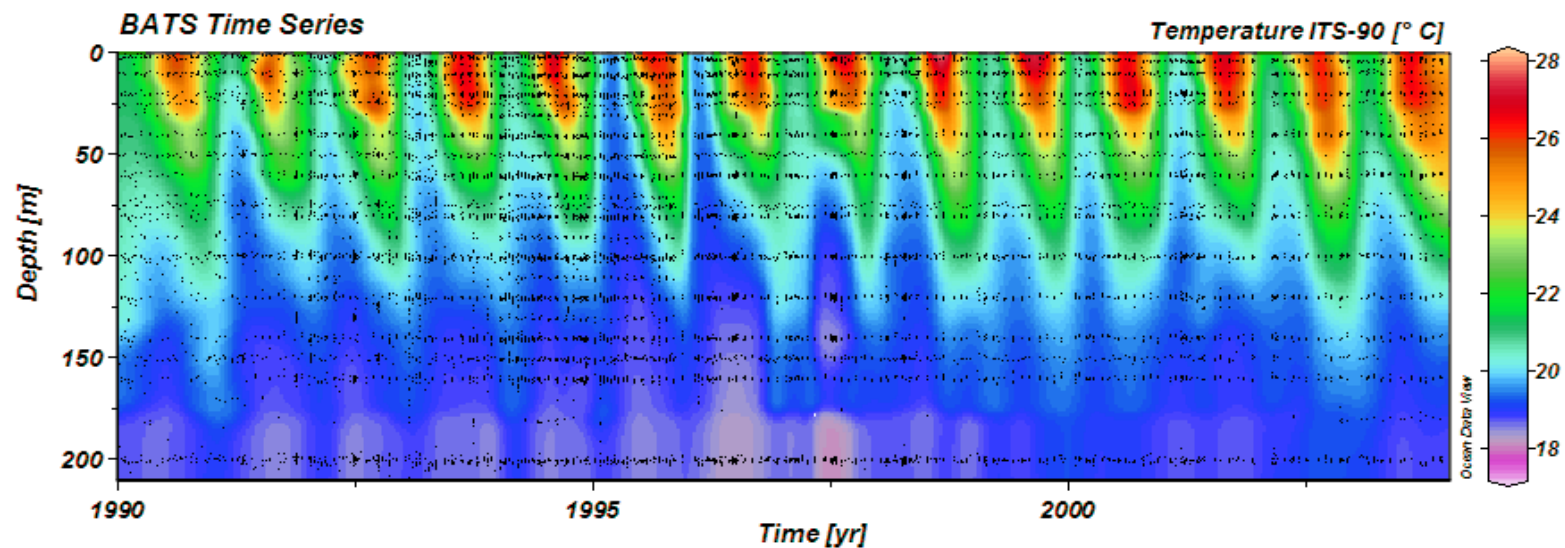
Соленость: лето и зима



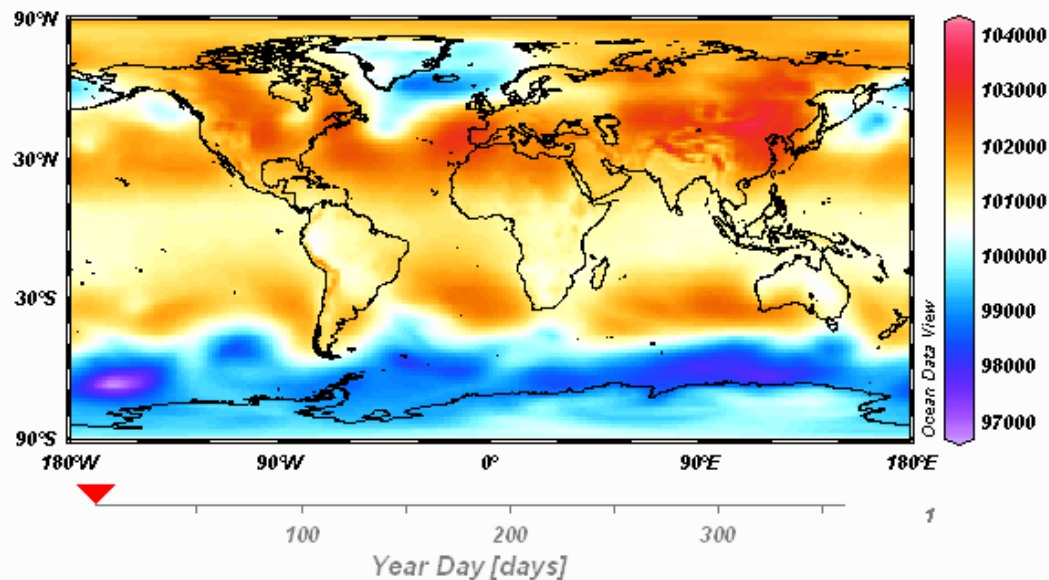
Представление данных в режиме смешанных окон



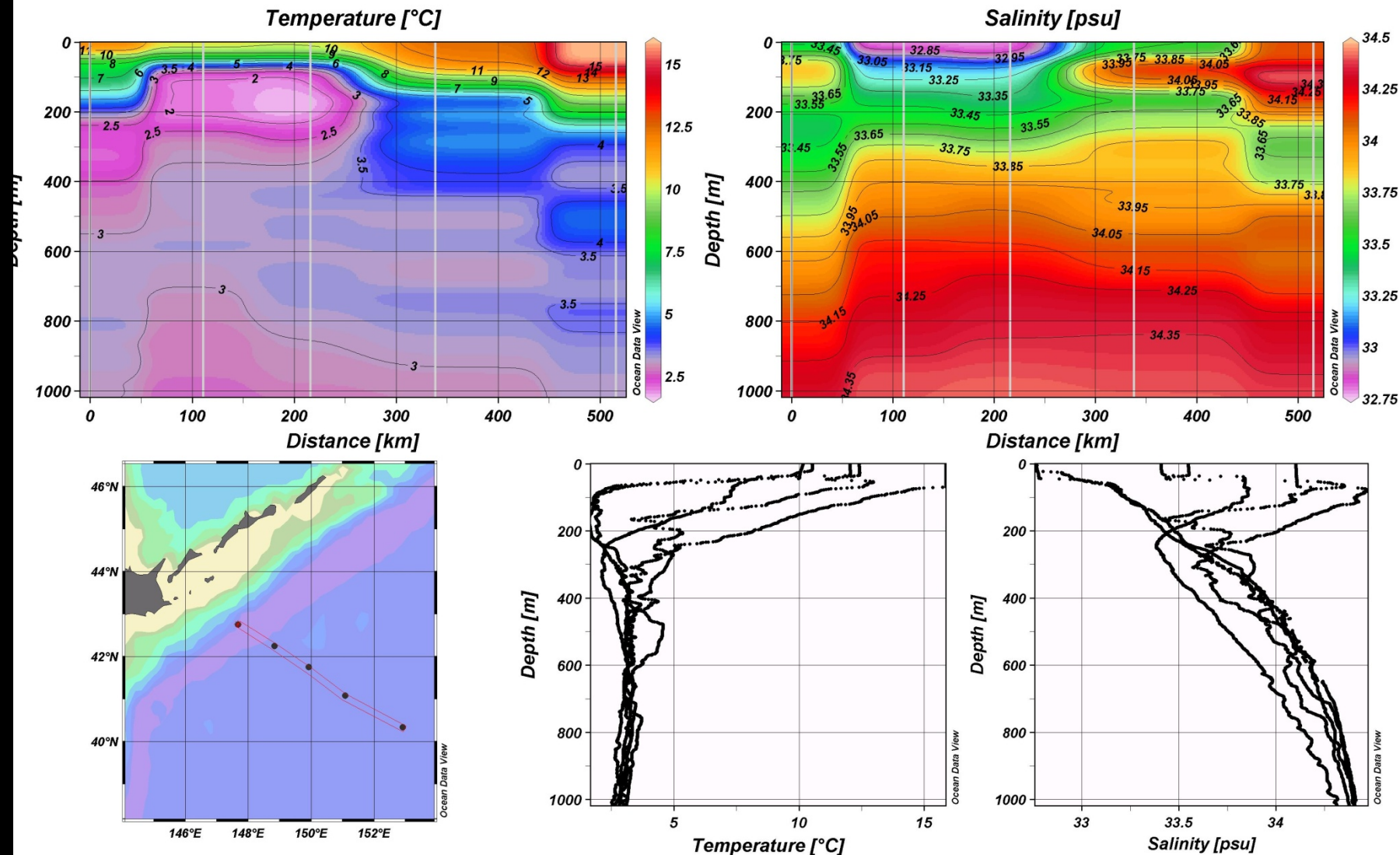
Временные распределения



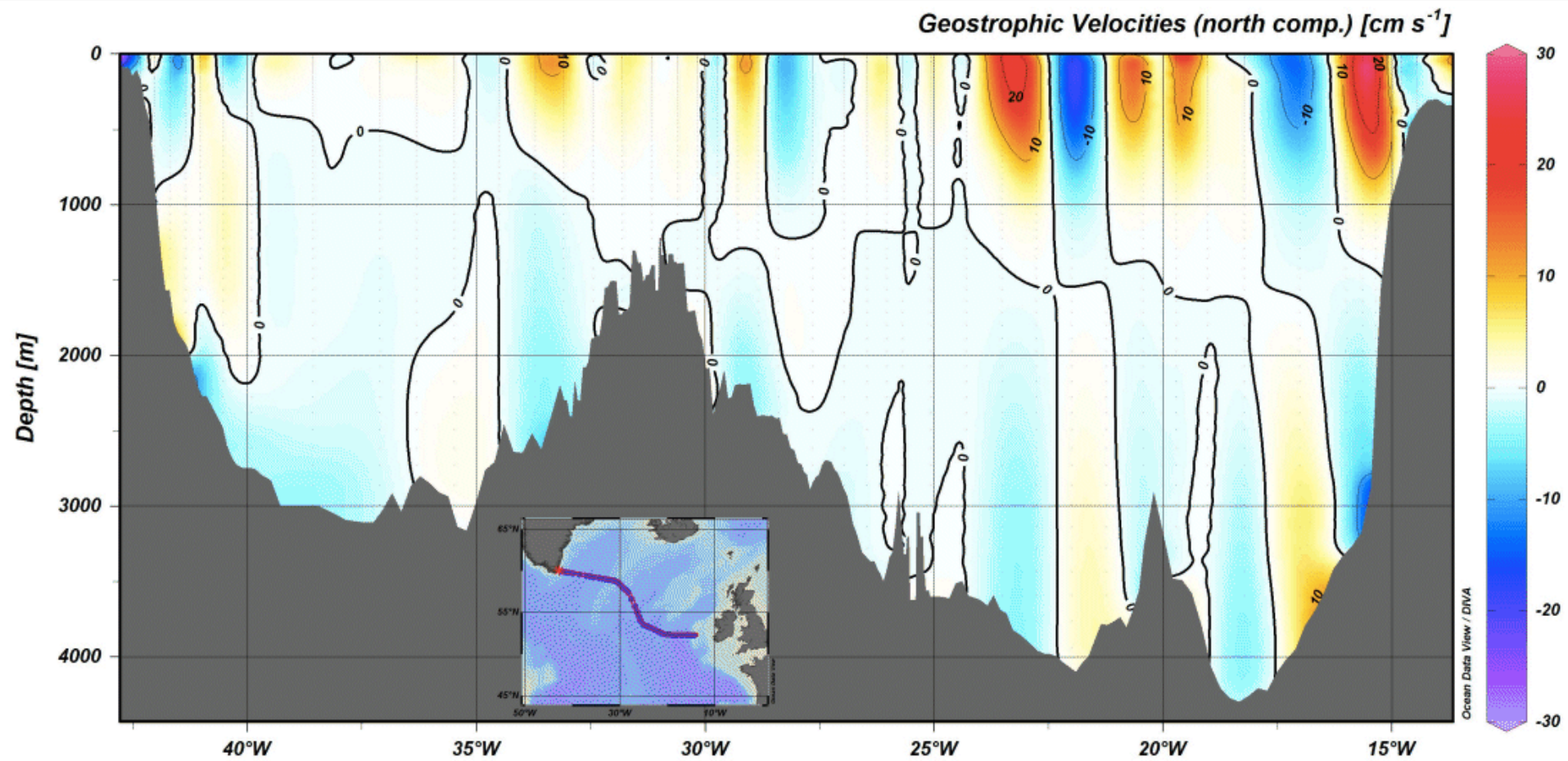
Mean Sea Level Pressure [Pa]



Вертикальное распределение температуры и солености на разрезе

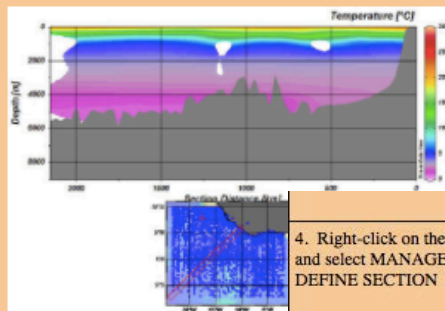


геострофическая скорость

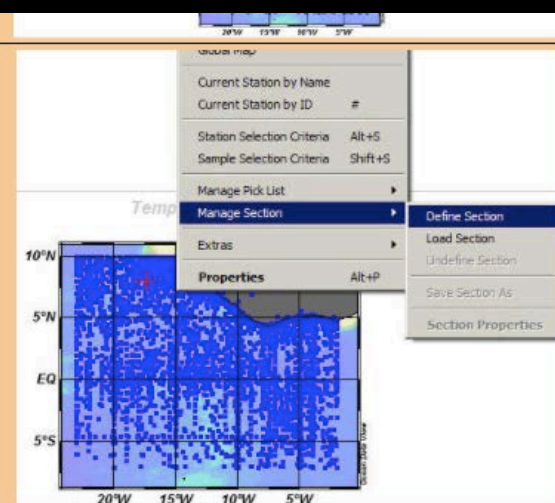


4.4 Creating Marine Data Section Plots in ODV

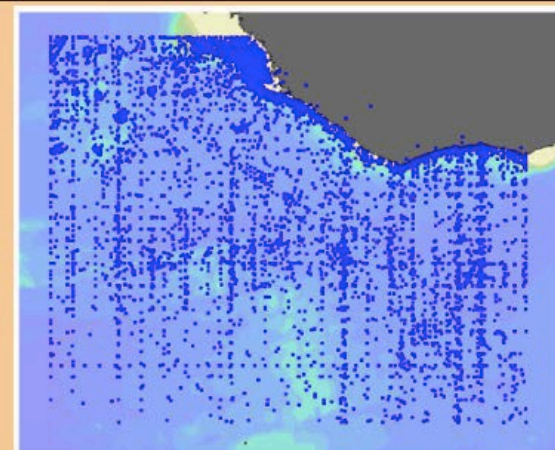
- **Exercise Title:** Creating Marine Data Section Plots in Ocean Data View (ODV)
- **Abstract:** The method to create section plots, and some basic gridding to improve the visualization, are presented. The geometry of the section itself is saved in a special ODV "section" file, as well as the overall graphic in an ODV "view".
- **Preliminary Reading (in [OceanTeacher](#), unless otherwise indicated):**
 - [Bathymetry and Topography](#)
- **Required Software:**
 - [Ocean Data View](#)
- **Other Resources:**
 - ODV collection [osd_all_liberia_wod.odv](#)
- **Author:** Murray Brown
- **Version:** March 2012



4. Right-click on the small station map, and select **MANAGE SECTION > DEFINE SECTION**



5. This new map of the stations appears. You will "draw" the section spine on this map, with your cursor.



1. A section plot is a vertical "slice" through the ocean, along an alignment that is often -- but not necessarily -- a straight line, portraying the vertical structure of a selected property along the alignment.

2. You should see something like this in ODV, after the previous exercise.

