OCEAN DATA VIEW

Плавучий университет

Абызова Галина, abyzova.ga@ocean.ru
Институт Океанологии им.Ширшова
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United Nations Educational, Scientific and Cultural Organization

Intergovernmental Oceanographic Commission

OceanTeacher GLOBAL ACADEMY

- 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)

Powered By IDV unidata IDV

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

Ocean Data View
http://odv.awi.de
© 2015 Reiner Schlitzer

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

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

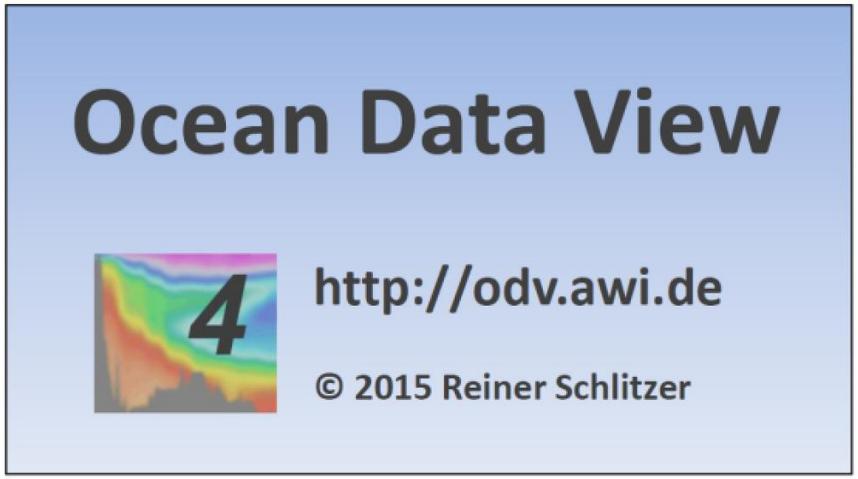
Data Software Documentation Links ODV Forum

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.

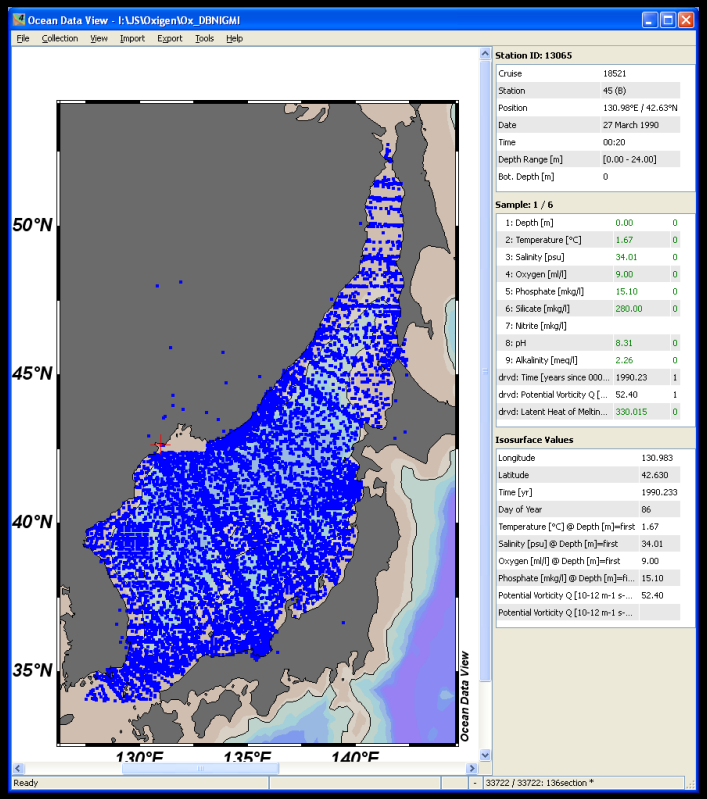
Use ODV to produce:

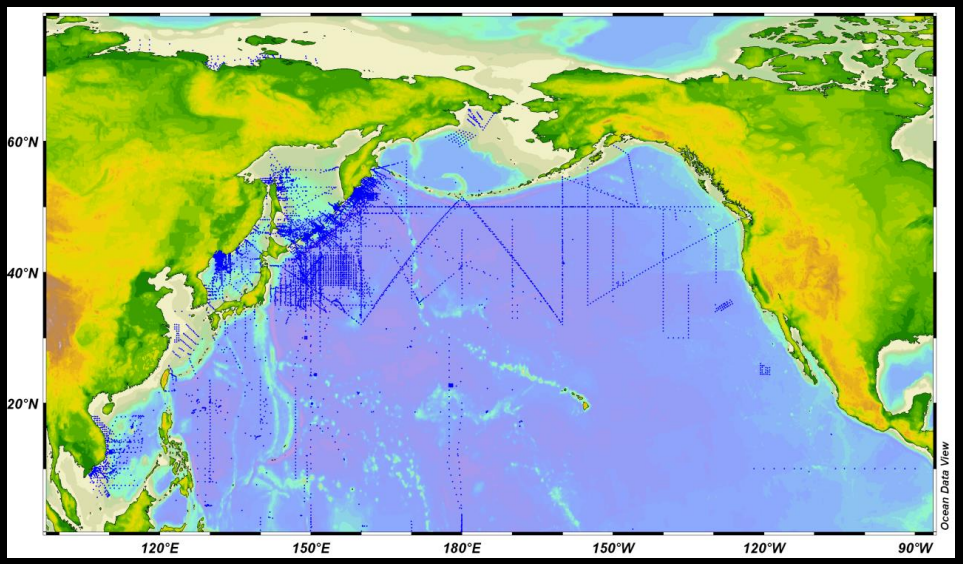
- property/property plots of selected stations,
- scatter plots for sets of stations,
- color sections along arbitrary cruise tracks,
- color distributions on general isosurfaces,
- temporal evolution plots of tracer fields,
- differences of tracer fields between repeats,
- geostrophic velocity sections,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

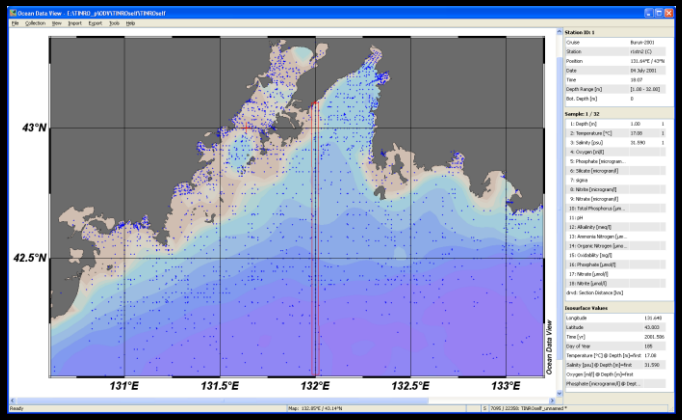


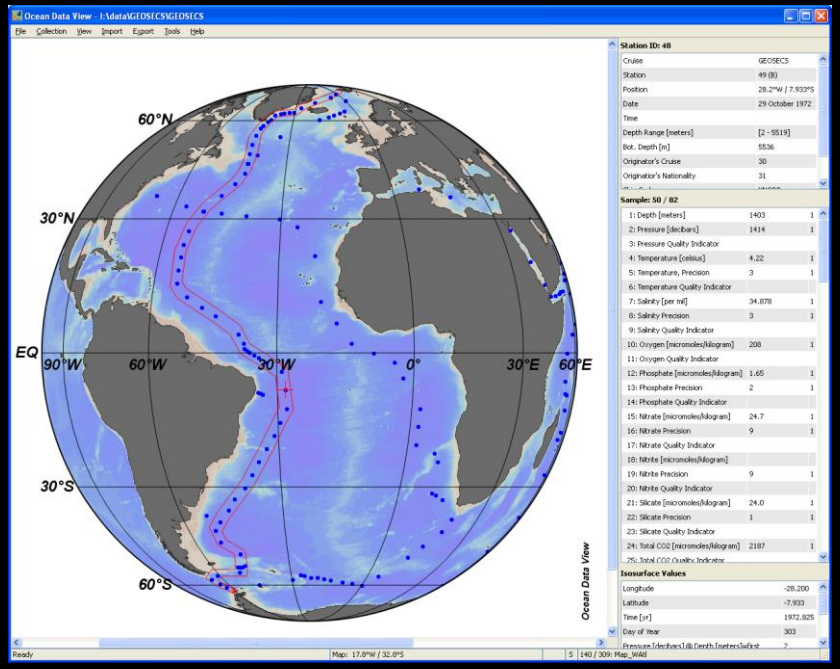
Усваивает данные проектов Арго, базы данных мирового океана, Атласа мирового океана (Левитус), эксперимента по циркуляции Мирового океана (WOCE), SeaDataNet и Medatlas - данные могут быть непосредственно импортированы в ODV. Существуют готовые к использованию версии данных Woce, World Ocean Atlas 2009, 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

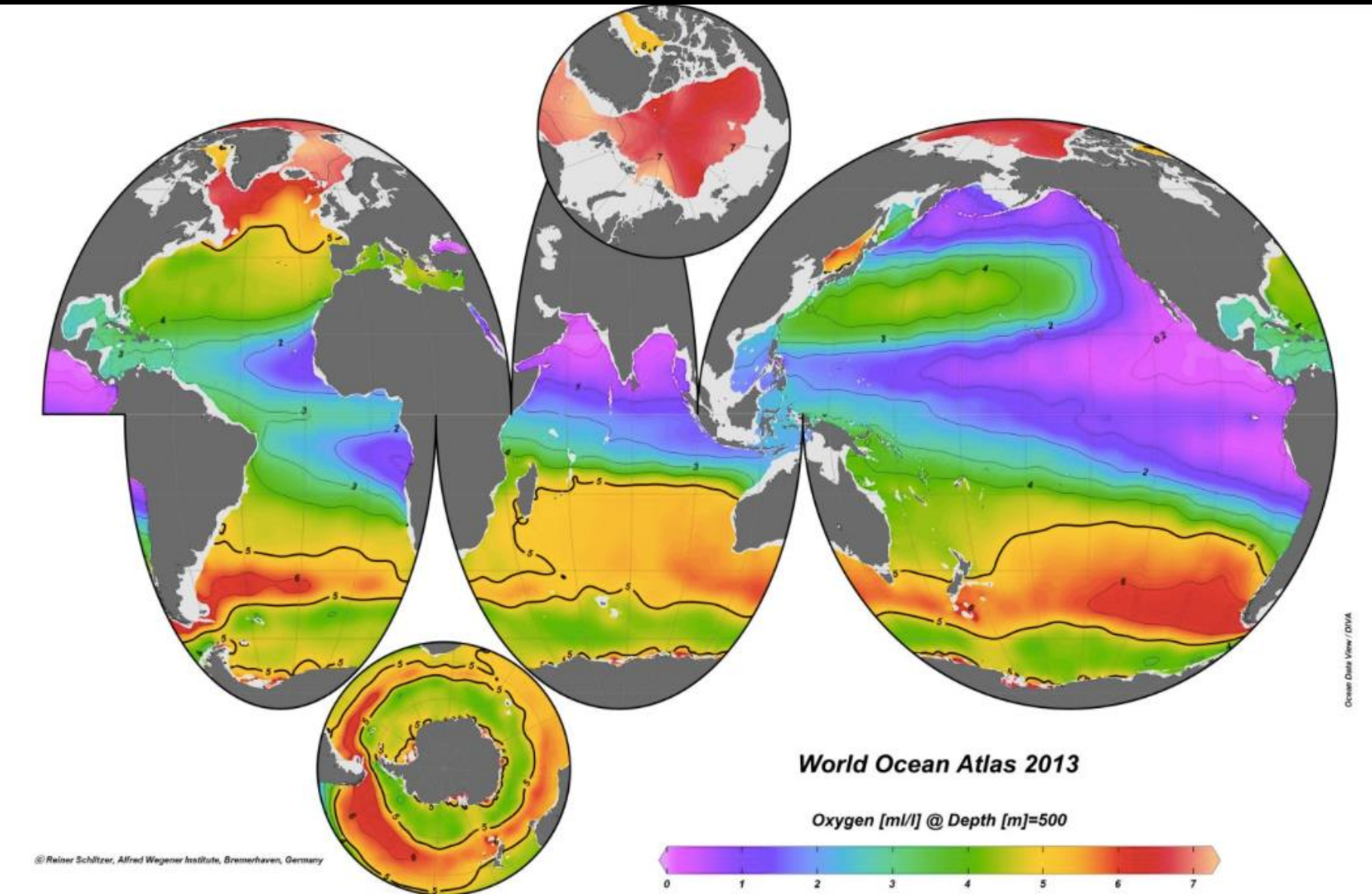


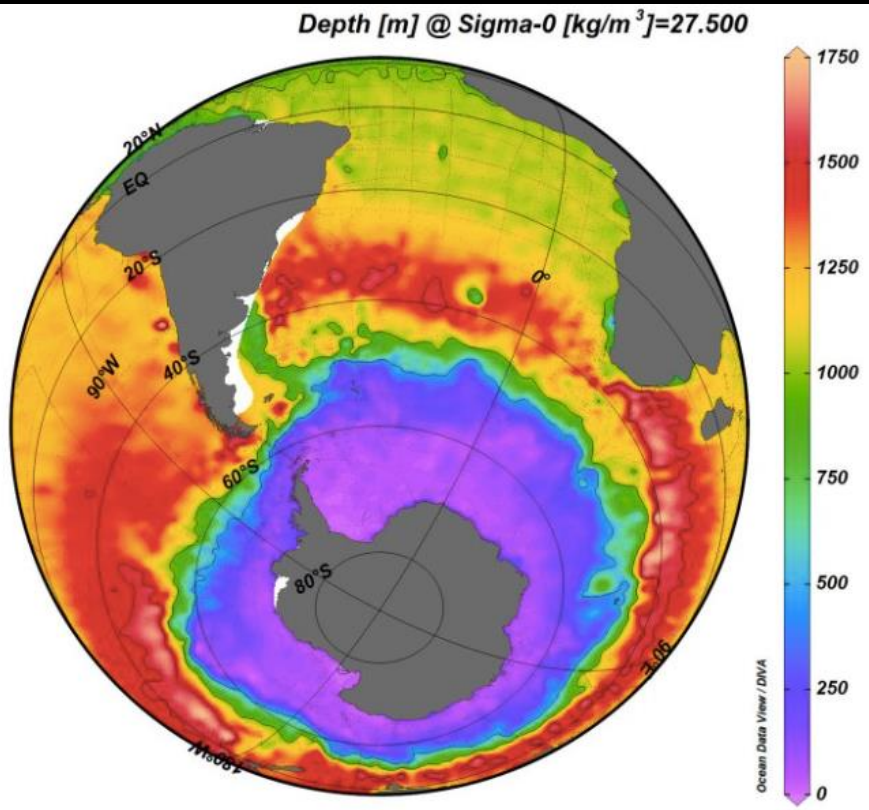


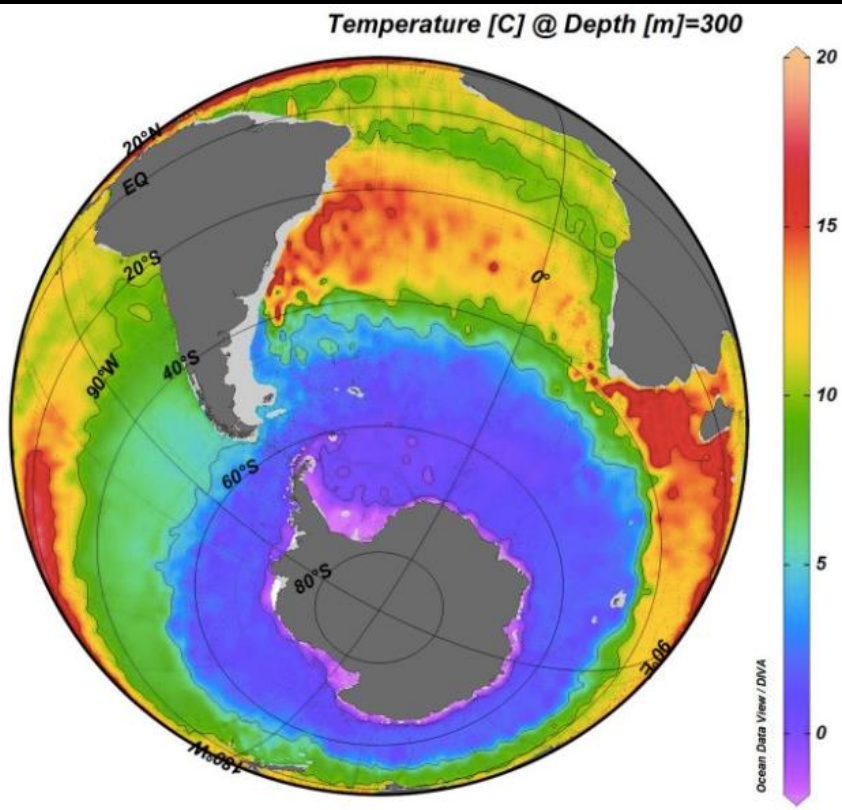




Различные проекции карт

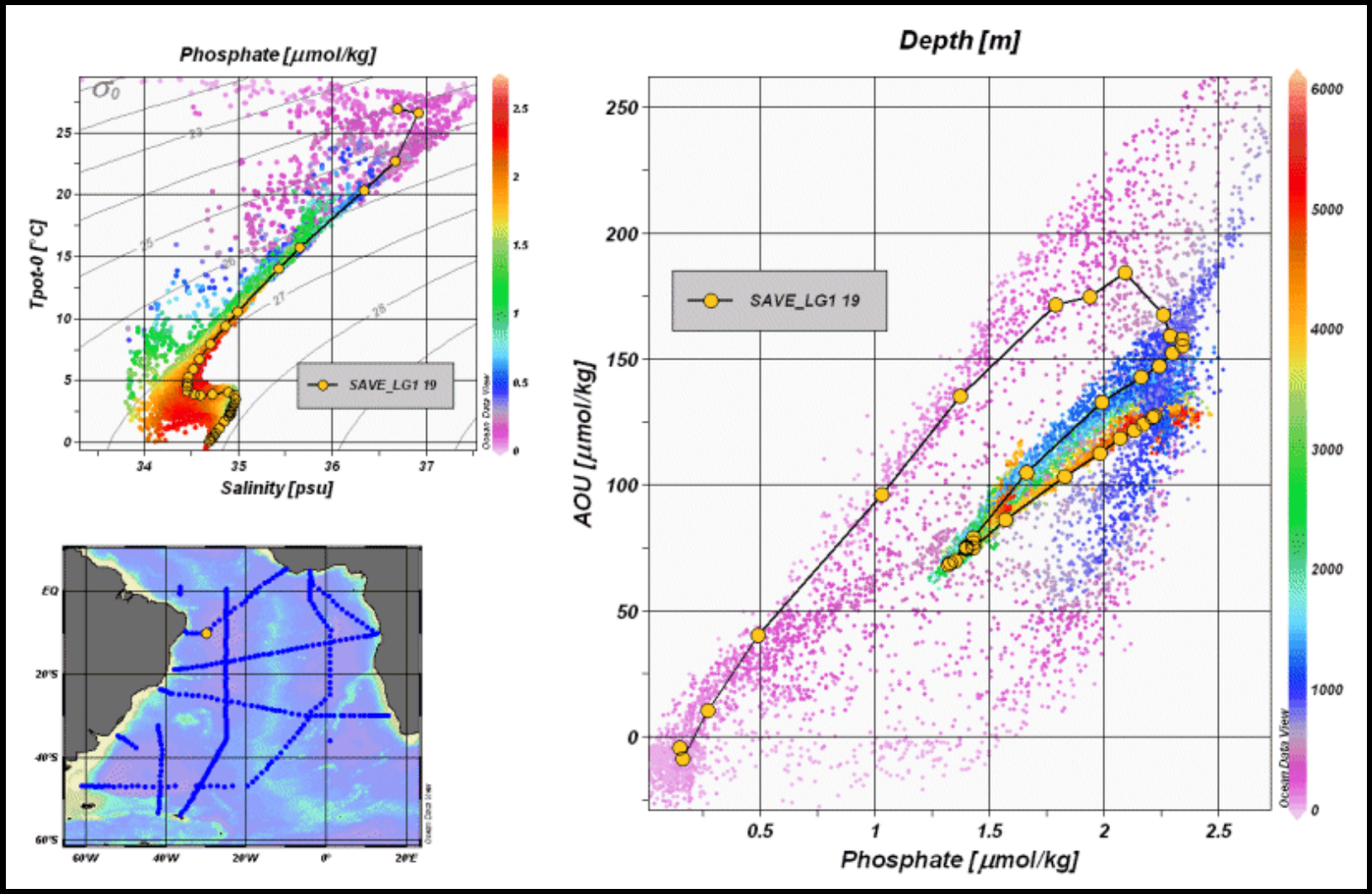



Depth [m] @ Sigma-0 [kg/m 3]=27.500
20°N
EQ
20°S
40°S
60°S
80°S
90°W
0°
90°E
180°W
1750
1500
1250
1000
750
500
250
0
Ocean Data View / DIVA

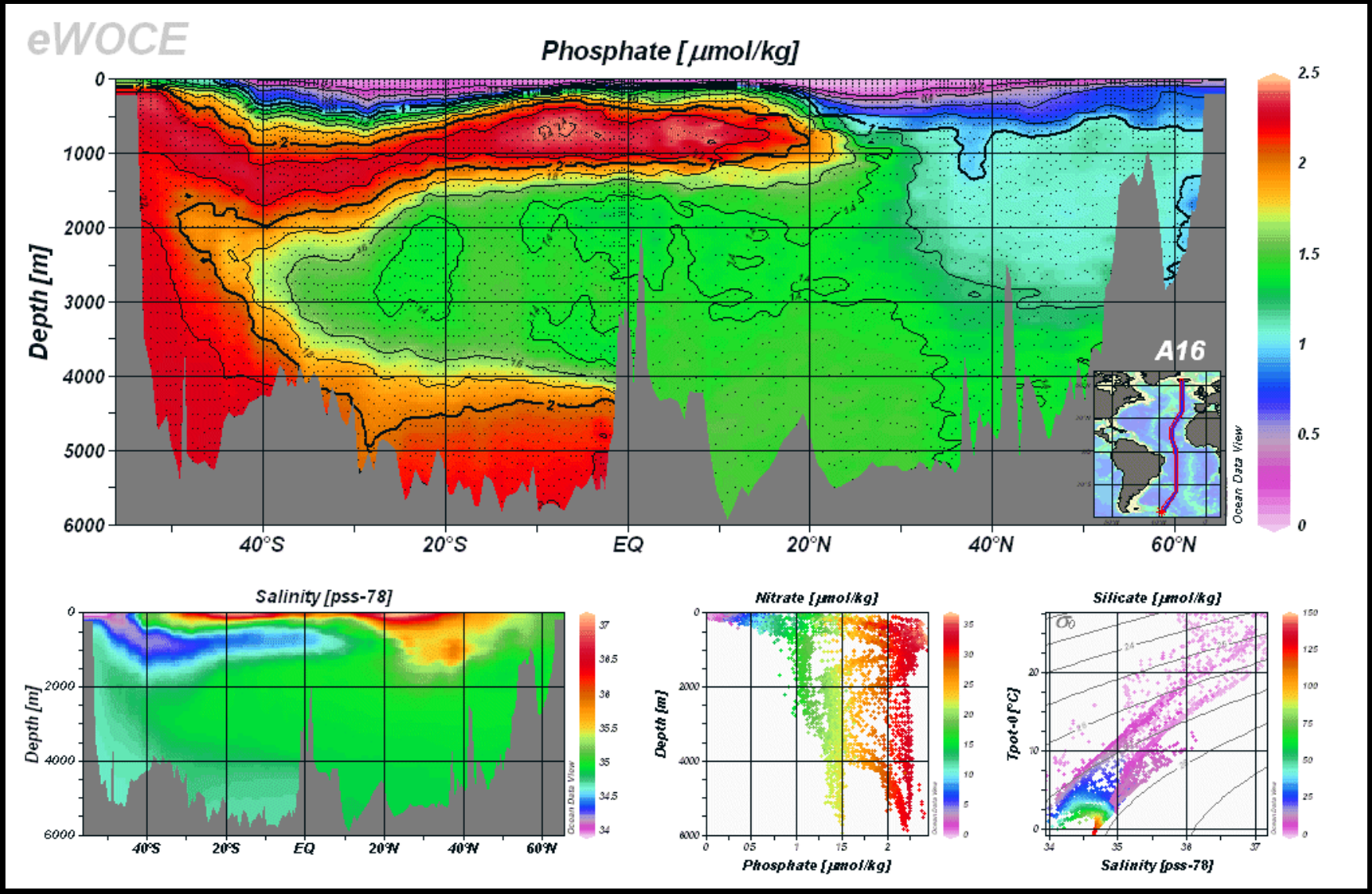

Temperature [C] @ Depth [m]=300
20°N
EQ
20°S
40°S
60°S
80°S
90°W
0°
90°E
180°W
20
15
10
5
0
Ocean Data View / DIVA

Разброс данных (Scatter):

все данные на одном графике

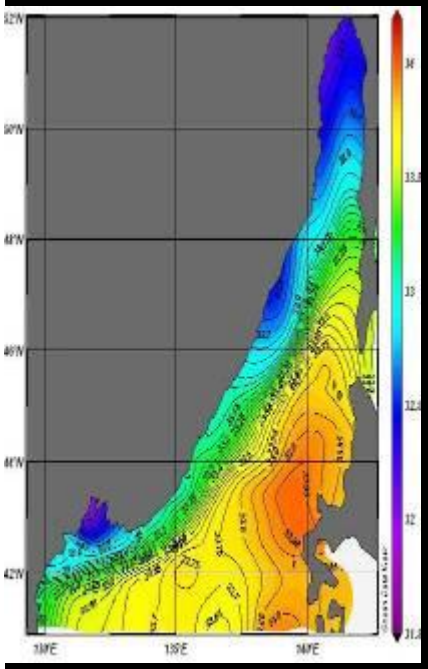


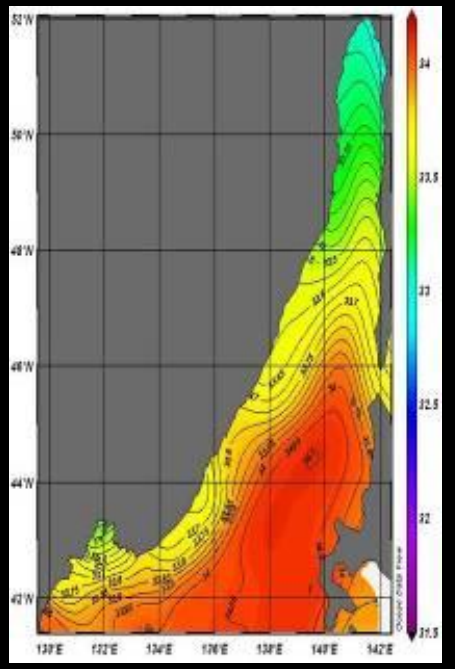
Разрезы

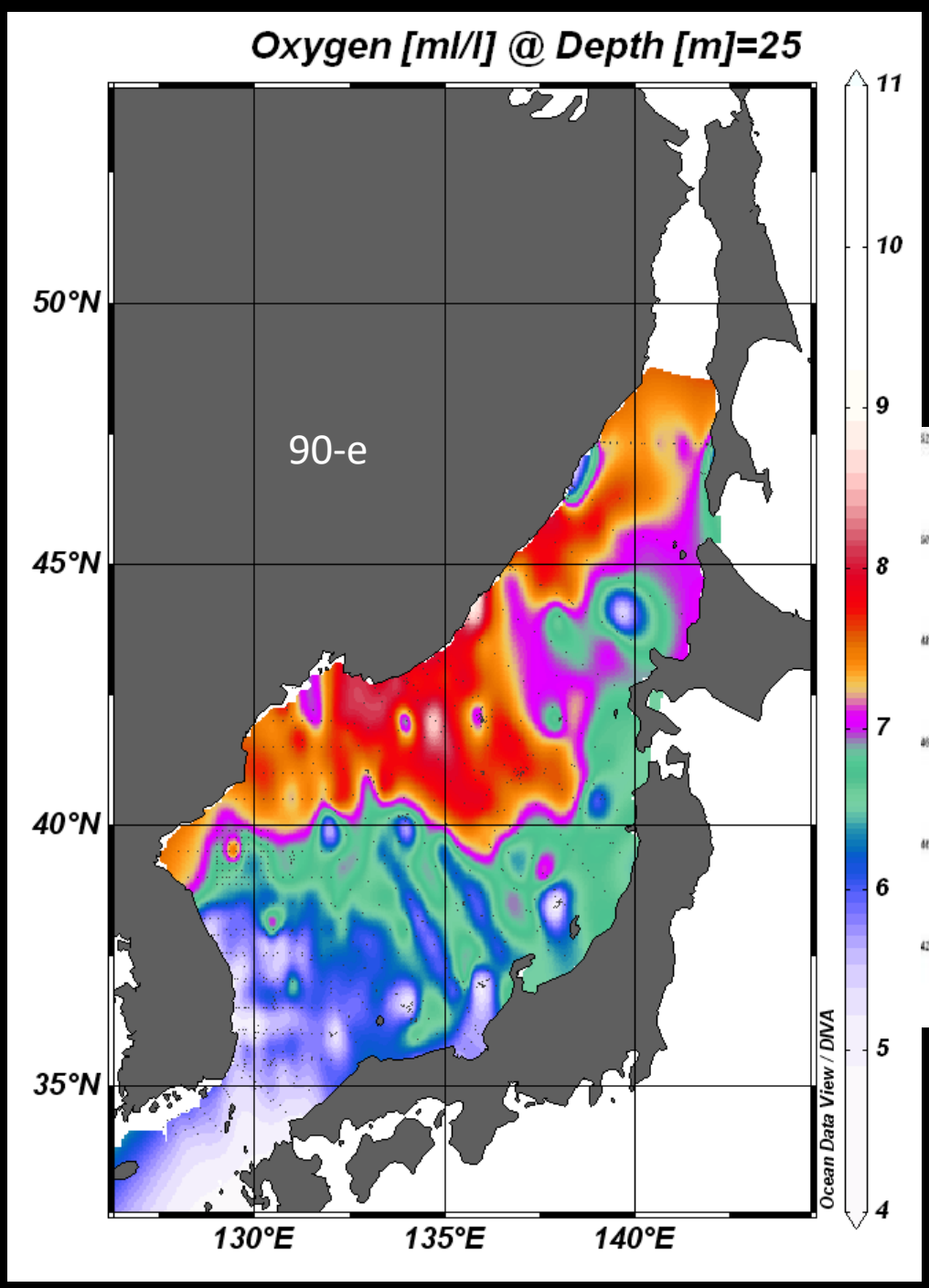

eWOCE
Phosphate [µmol/kg]
Depth [m]
0
1000
2000
3000
4000
5000
6000
40°S
20°S
EQ
20°N
40°N
60°N
A16
Ocean Data View
2.5
2
1.5
1
0.5
0
Salinity [pss-78]
Depth [m]
40°S
20°S
EQ
20°N
40°N
60°N
Ocean Data View
37
36.5
36
35.5
35
34.5
34
Nitrate [µmol/kg]
Depth [m]
Phosphate [µmol/kg]
Silicate [µmol/kg]
Tpot-0 [°C]
Salinity [pss-78]

Данные по горизонтам и в разное время

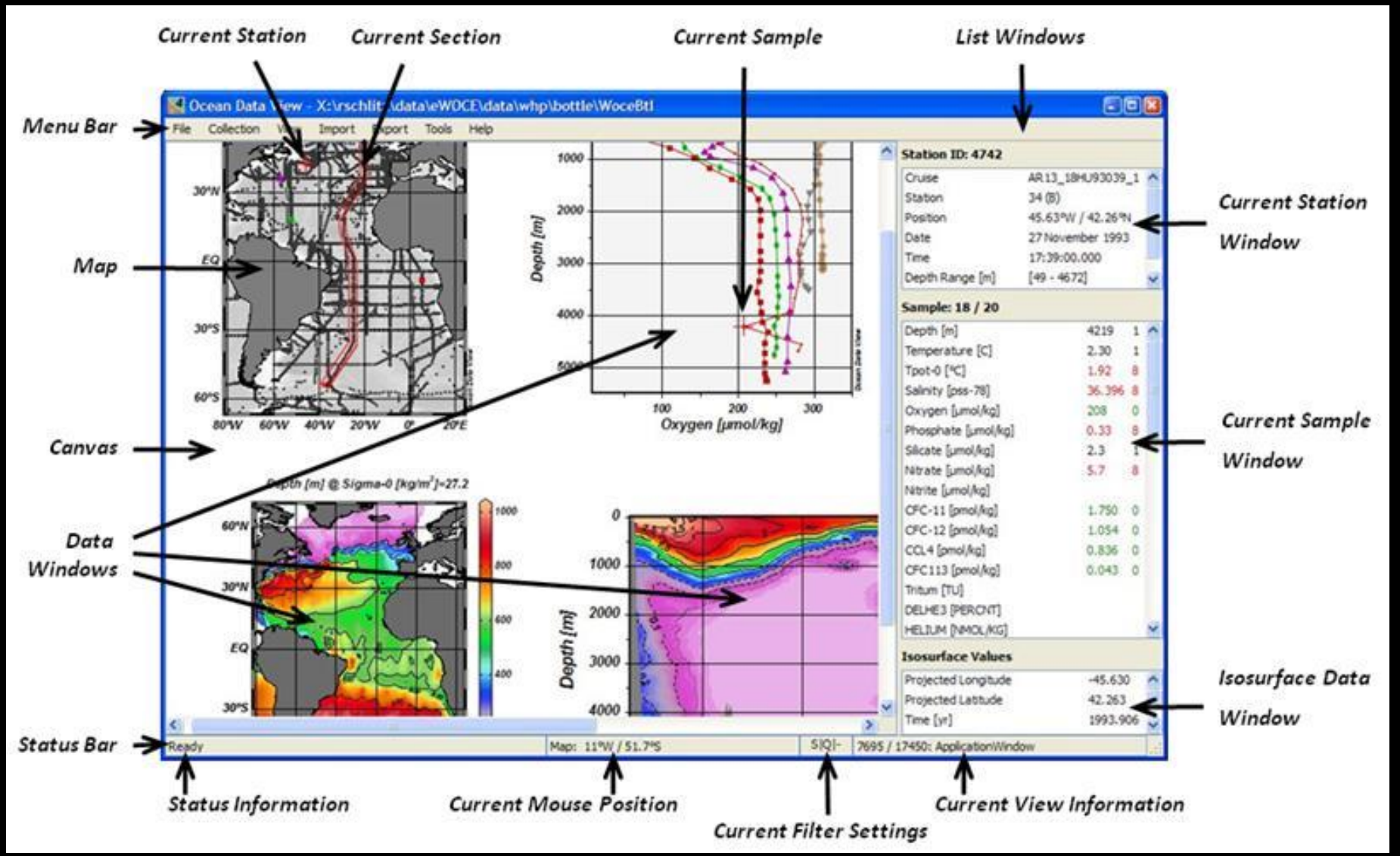
Соленость: лето и зима



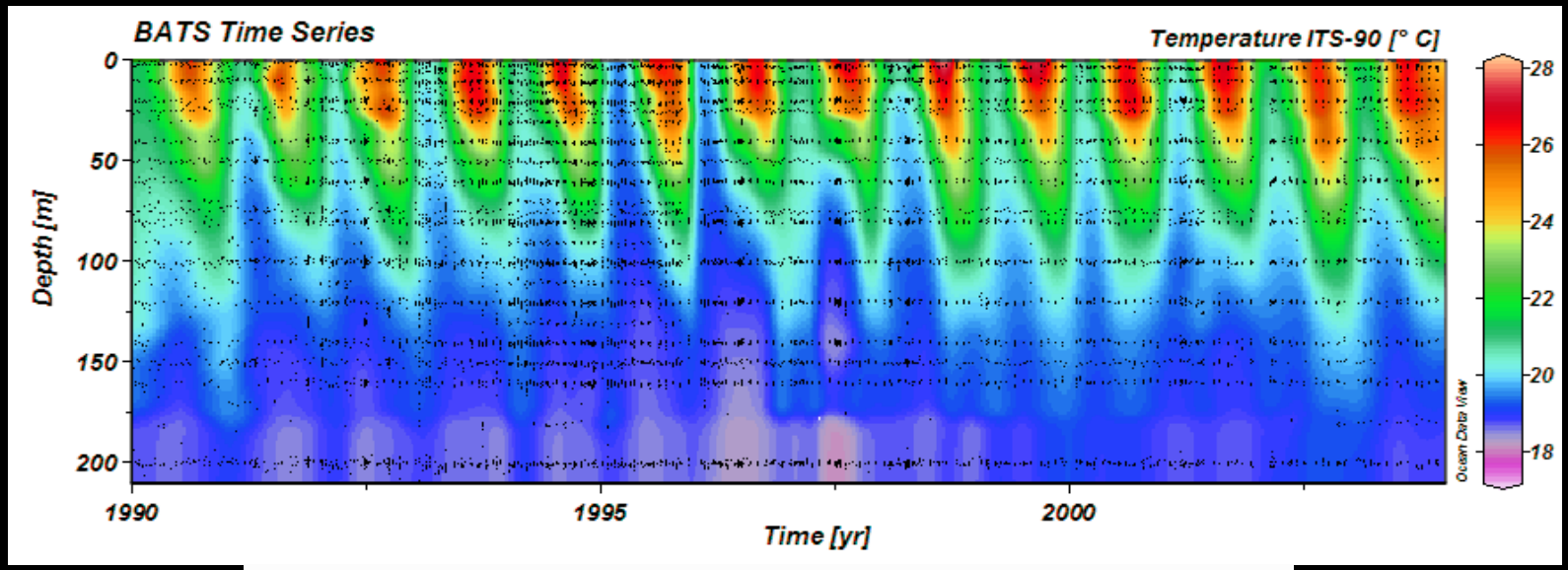


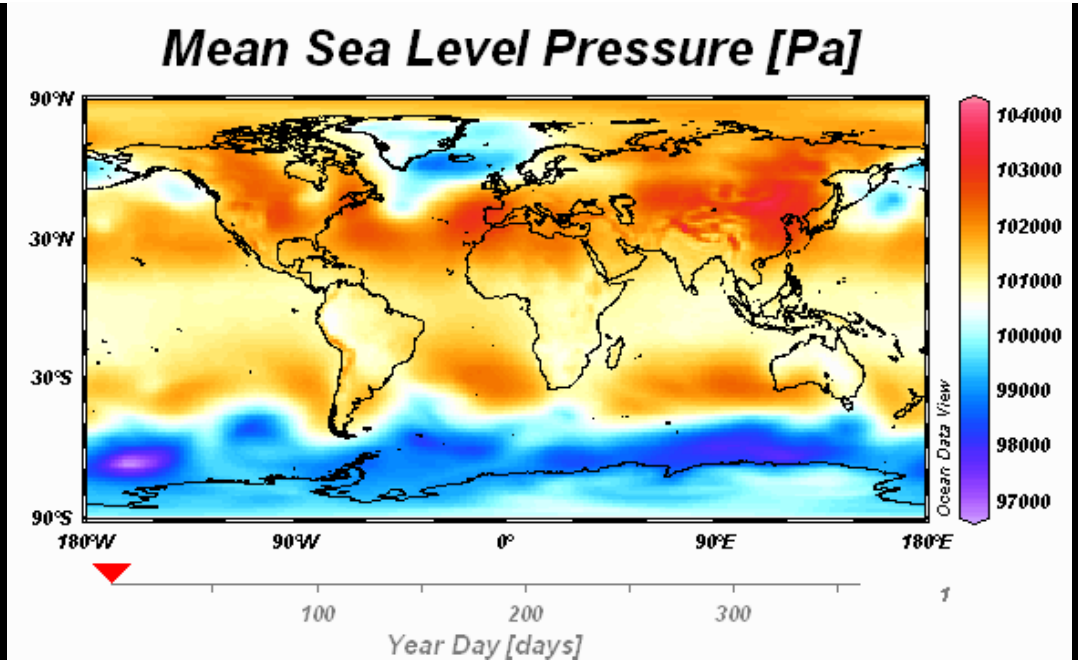


Представление данных в режиме смешанных окон

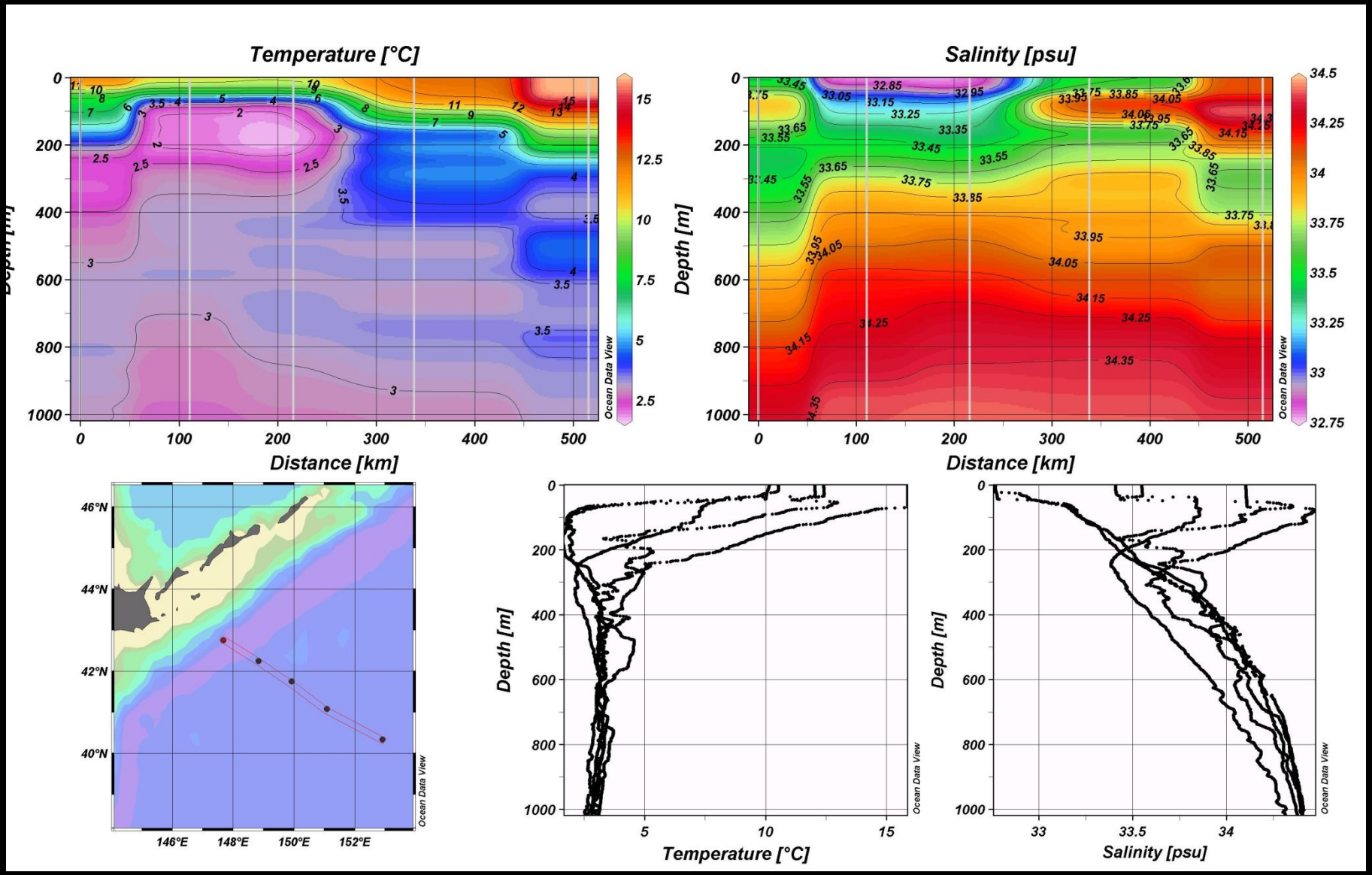


Временные распределения

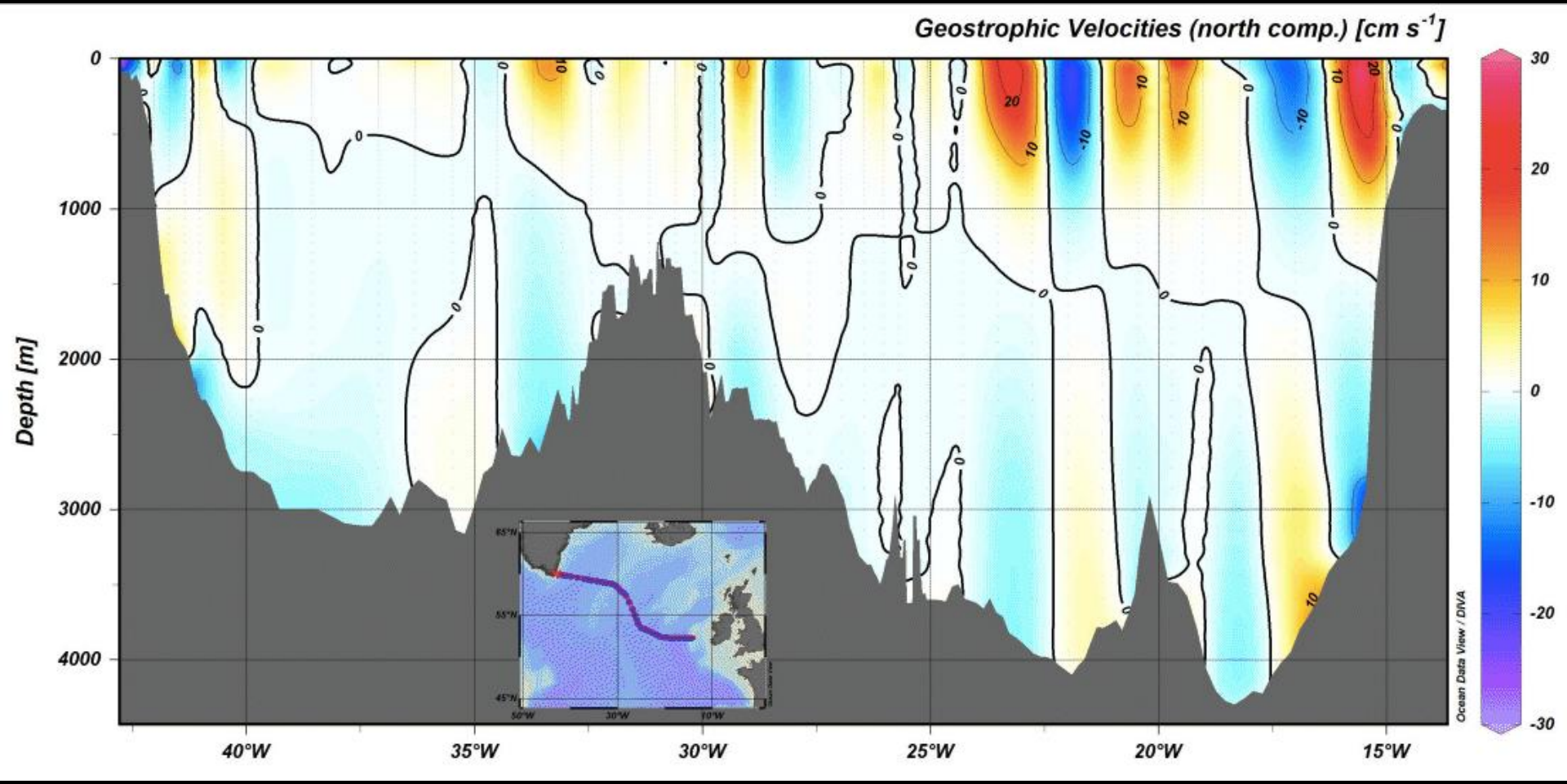




Вертикальное распределение температуры и солености на разрезе



геострофическая скорость



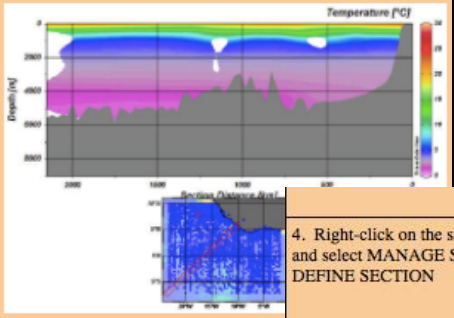
Marine Data Literacy 2.0

Providing instruction for managing, converting, analyzing and displaying oceanographic station data, marine meteorological data, GIS-compatible marine and coastal data or model simulations, and mapped remote sensing imagery

Home > 4. Ocean Data View > 4.4 Section Plots

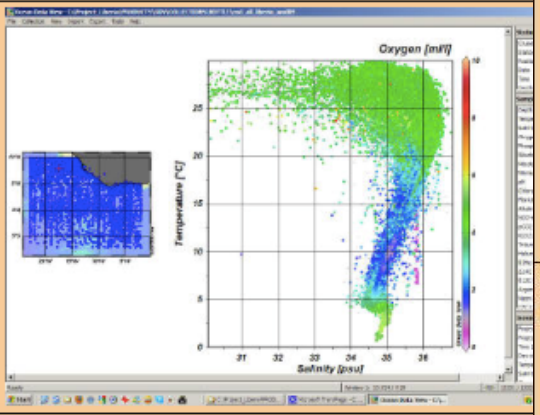
4.4 Creating Marine Data Section Plots in ODV

- **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



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

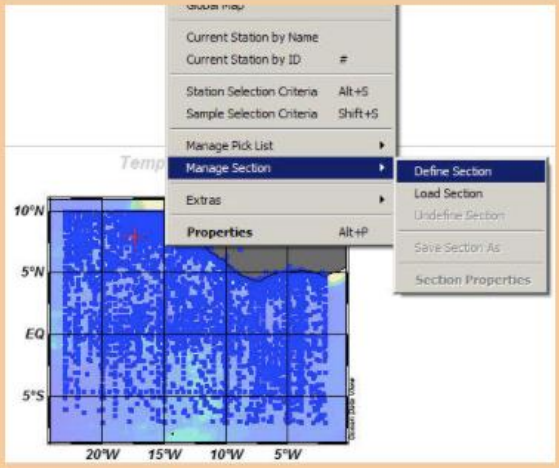
2. You should see something like this in ODV, after the previous exercise.



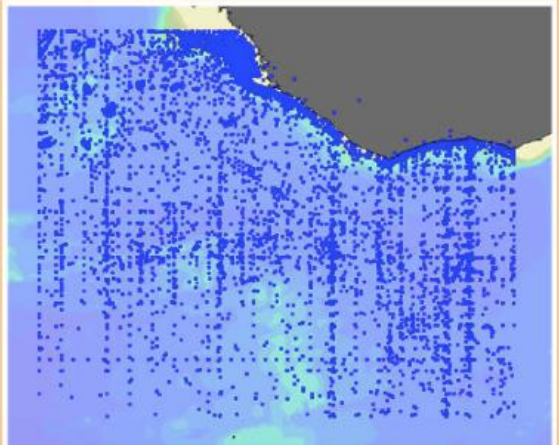
http://www.marinedataliteracy.org/index.html

Пошаговая инструкция для разных типов данных на английском

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.



Экпресс инструкция к ODV на русском

- http://www.odv.oceanographers.ru