

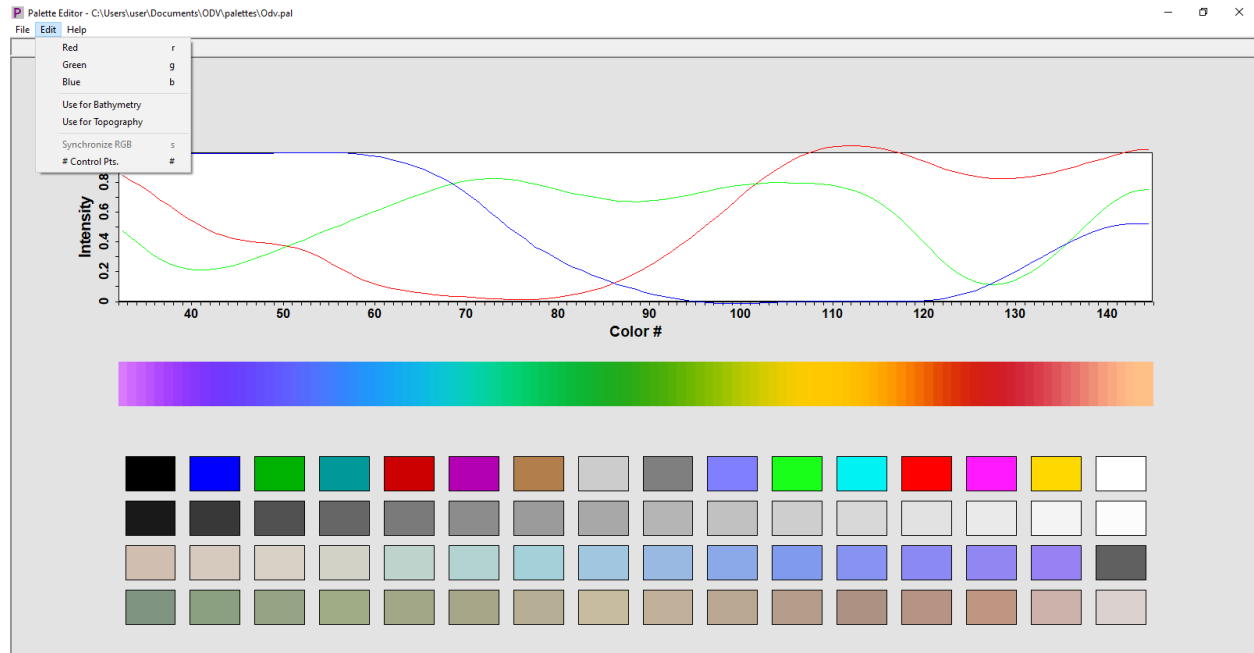
Additional options in ODV

Palette Editor

1 Surface Window > Oxygen at surface as z variable >

Tools > Palette Editor > Edit > change blue/green > save as new palette ODV2

Right click on plot > Properties > General > Palette select ODV2



Station Filter

- 1 Surface Window > Oxygen at surface as z variable >
- Right click map> Station Filter> Date/Time> enter 2000 to 2018
- Change y variable of plot to time/year to see the changes
- To get back the full values, go back to Station Filter> Date/Time > Relax Criteria
- Right click on plot> Full range to get back the entire time values

The screenshot shows the 'Station Filter' dialog box with the 'Date / Time' tab selected. The 'Period' section is set to 'From: Jan / 01 / 2000 00 : 00' and 'To: Dec / 31 / 2018 23 : 59'. The 'Season' section is set to 'From: Jan / 01' and 'To: Dec / 31'. The 'Day Time' section is set to 'From: 00 : 00' and 'To: 23 : 59'. At the bottom right, there is a 'Relax Criteria' button. At the bottom left, there is a 'Help' button. At the bottom right, there are 'OK' and 'Cancel' buttons.

Box averaging

- **Tools** > **Box averaging** > select a created ascii file containing lat, lon, depth information at user-defined points at which box averaging need to be done.
- Output file will be listed containing mean of lat, long, depth, variable whose box averaging is done, standard deviation of the variable, no of data points used, no of points rejected

The format of the box definition file is as follows:

- plain ASCII, one box definition per line, 6 numbers separated by (one or more) spaces,
- meaning of numbers (see figure):
 $lon\ lat\ dep$ (box center) $\Delta_{lon}\ \Delta_{lat}\ \Delta_{dep}$ (box sizes). Longitudes and latitudes are in decimal degrees, and depth is in meters.



Once you have specified a box definition file, ODV will start working. Note that while averaging, ODV will check for data outliers and will use only data within 3 standard deviations of the mean. The output will be written to the directory of the box definition file. The output file names consist of the box definition file name, the label of the variable that is processed and the extension *.est*.

The format of the *.est* output file is as follows:

- plain ASCII, one line of output per line in the box definition file, 10 values separated by TABS,
- meaning of values:
 $lon\ lat\ dep$ (same as in box definition file) $\overline{lon}\ \overline{lat}\ \overline{dep}\ \overline{val}\ \sigma\ n_u\ n_r$.

$\overline{lon}\ \overline{lat}\ \overline{dep}\ \overline{val}$ are average longitude, latitude, depth and variable values of the data used, σ is the standard deviation of the variable values, n_u is the number of data points used and n_r is the number of data points rejected. A data point is rejected if its value differs from the mean \overline{val} by more than 3 standard deviations σ .

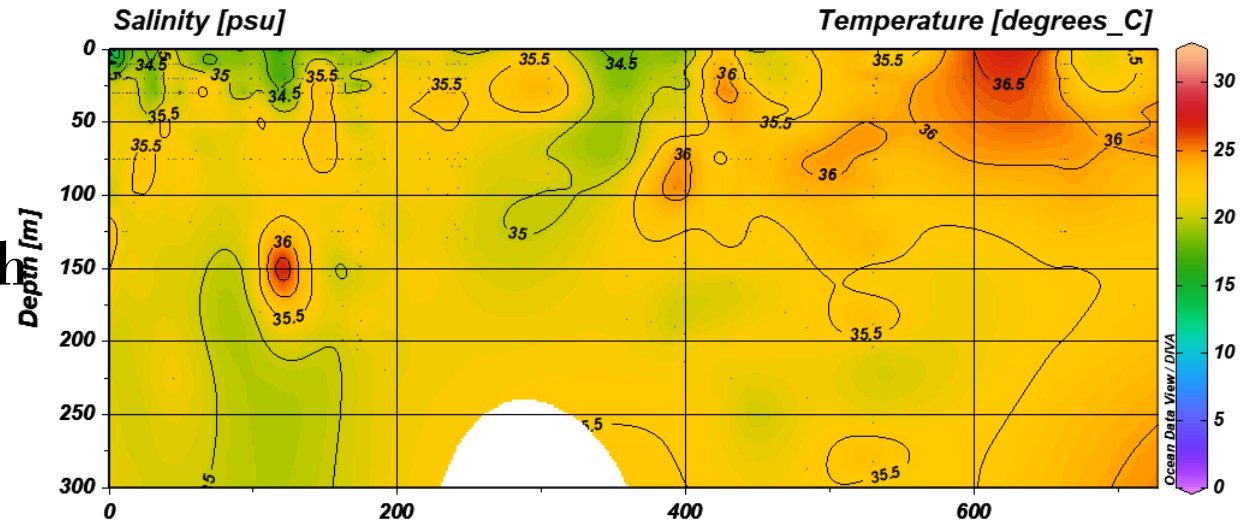
2D and 3D estimation

- **Tools**> **3D estimation**> select a created ascii file containing lat, lon, depth information at user-defined points at 3D estimation for any variable needs to be done.
- Output file will be listed containing longitude, latitude, depth, estimated value, normalized distance of averaged data x, y, z positions from estimation point and number of data points used
- Right click on plot> **Extras**> **2D estimation**
- **2D estimation** is for gridded data with no depth information available. The input/output file does not contain depth
- Similarly for scatter plot, **1D estimation** can also be done.

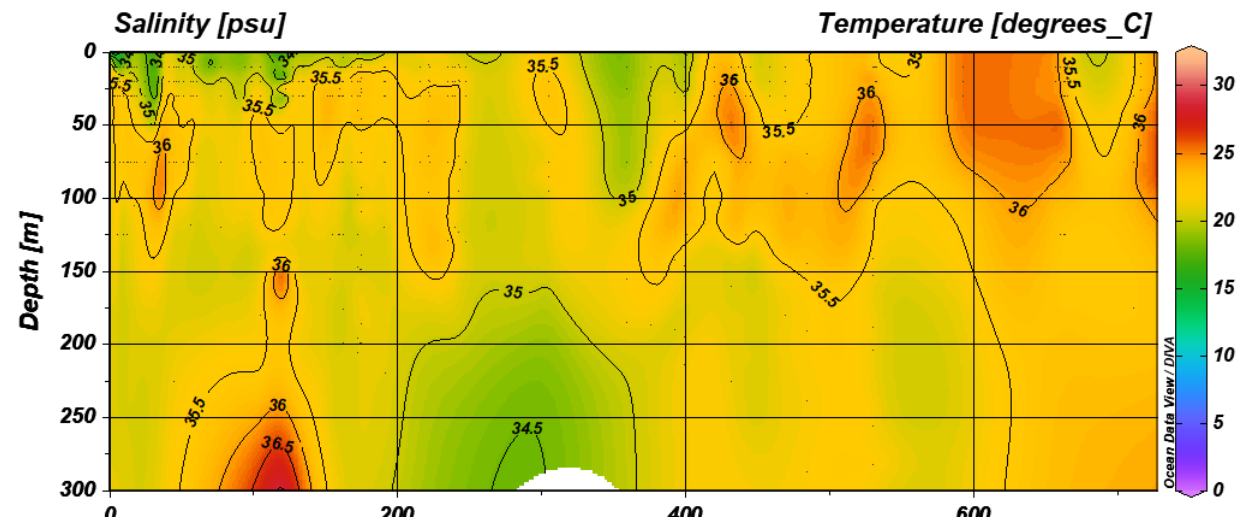
Isopycnic gridding

- **Isopycnic gridding** should always be used in areas with sharply sloping isopycnals, such as regions with strong currents and fronts.
- Note that this option is only enabled only if **potential density derived variable** is defined and **DIVA gridding** is used in **SECTION** mode
- To do this check the **Isopycnic gridding** box on the **Display Style** page of the window's **Properties** dialog

DIVA gridding with automatic scales



Isopycnic gridding



- Save the whole layout using **File > Save Canvas As**

ODV User Guide

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ODV user Forum

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You must login to post a message to the conferences. Reading posts is possible without login.


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Subforums

Forum	Topics	Posts	Last post
 Data Issues related to ODV datasets and formats	324	845	Estuarine Bathymetry Trouble (How do I use station bottom data?) 29.07.2020 06:35 by WyyyyXZH@126.com
 Software Everything around our Ocean Data View software	442	1102	section bathymetry 29.07.2020 06:33 by WyyyyXZH@126.com
 API Everything around the ODV Application Programming Interface	5	6	Wrong link in libodv4.so? 21.03.2016 21:22 by sh175@web.de
 General Here you can talk about anything else	126	307	showing error when saving images: "a general error occurred with file" 12.08.2020 21:51 by gizycm@gmail.com

Subject	Author	Replies	Last post
 Shoreline map/contours	a_estradas@hotmail.com	0	Shoreline map/contours

