

## ODV Course – Oostende (June 2018)

**Material:** Directory *ODV\_course\_material* should be on the desktop. This is root of path-names below.

### ODV V5 introduction (11:30 – 12:30)

- **ODV – General Usage Tips (Guided hands-on)**
  - Double-click on *data/qc/Dirty\_Dataset.odv*
  - Explain relationship between collection and view
  - Explain elements of the application window (use *ApplicationWindow.pptx*; canvas, map, data windows, list windows, views bar, status bar)
  - Explain concept of current station/current sample; role of list windows; left-clicking into map and data windows
  - Explain different context menus obtained via right-clicking on map and data windows. Practice zooming, full-range, and axis variable assignment.
  - Explain undo/redo, saving/loading views
- **Importing SDN/ODV Files**
  - Files from a single directory: start ODV by double-clicking on ODV icon (no collection open)
  - Option: *Import > SeaDataNet Formats...*; navigate to *data/import/dir1* and select some or all files), click *Open*.
  - Pay attention to *Analysis* and *Import* results dialogs; click *Details* to find out about problems
  - **HOME WORK:** Use User's Guide to learn how to create *import file lists* to import files from many different directories in one go.

## Using ODV for Quality Controls (13:30 – 15:30)

- **Outlier Detection and Flagging (Guided hands-on)**
  - Double-click on *data/qc/Dirty\_Dataset.odv*
  - Explain how to establish SCATTER view templates and assign variables on X axis
  - Emphasize: (1) stations on land, (2) many outliers in data plots
  - (1) click on station on land; show how to edit lon/lat
  - (2) General advice: **do not delete values, but assign quality flag instead!**
  - Do visual identification, click on “individual” outlier, assign new quality flag value
  - Click on a bad station; assign new quality flag value for all samples of that station
  - Zoom into a “bad value area”; assign new quality flag value for all samples of that window
  - Select Phosphate as X variable; use option *Tools > Find Outliers (Range Check)*: *Phosphate* Range 0 – 0.75; *depth* range 500 – 5000; *outliers.lst* to Desktop; check *Inspect and edit outliers*. Do a few sample-by-sample assignments, then do *Apply to All*.
  - Note that edited bad values are in red in the sample list.
  - If time available: establish a sample filter on a data window to show that data can now be filtered by quality.
- **Obtaining edit log records (Guided hands-on)**
  - Use option *Export > Station History*; output file to Desktop; Filter sub-string empty or EDIT
  - Open the history log and explain the entries
- **Outlier Detection and Flagging (hands-on, participants on their own)**
  - Participants apply above techniques and clean their parameter of choice