REVMA - Vessel management software
(**R**esearch **V**essel **Ma**nager)

REVMA is a toolbox within **PERPLEX®**
(**P**rogram for **E**xpedition **R**oute **Pl**annung and **Ex**ecution)

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AWI

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Coordinating the Operation of a Research Vessel Fleet

- Area
- Working groups / disciplines
- Participants
- Instruments / heavy gears
- Seasons

No standardized electronic format of the cruise plans exist.

AWI – FS Polarstern

What can be done if cruise plans exists in uniform electronic format?

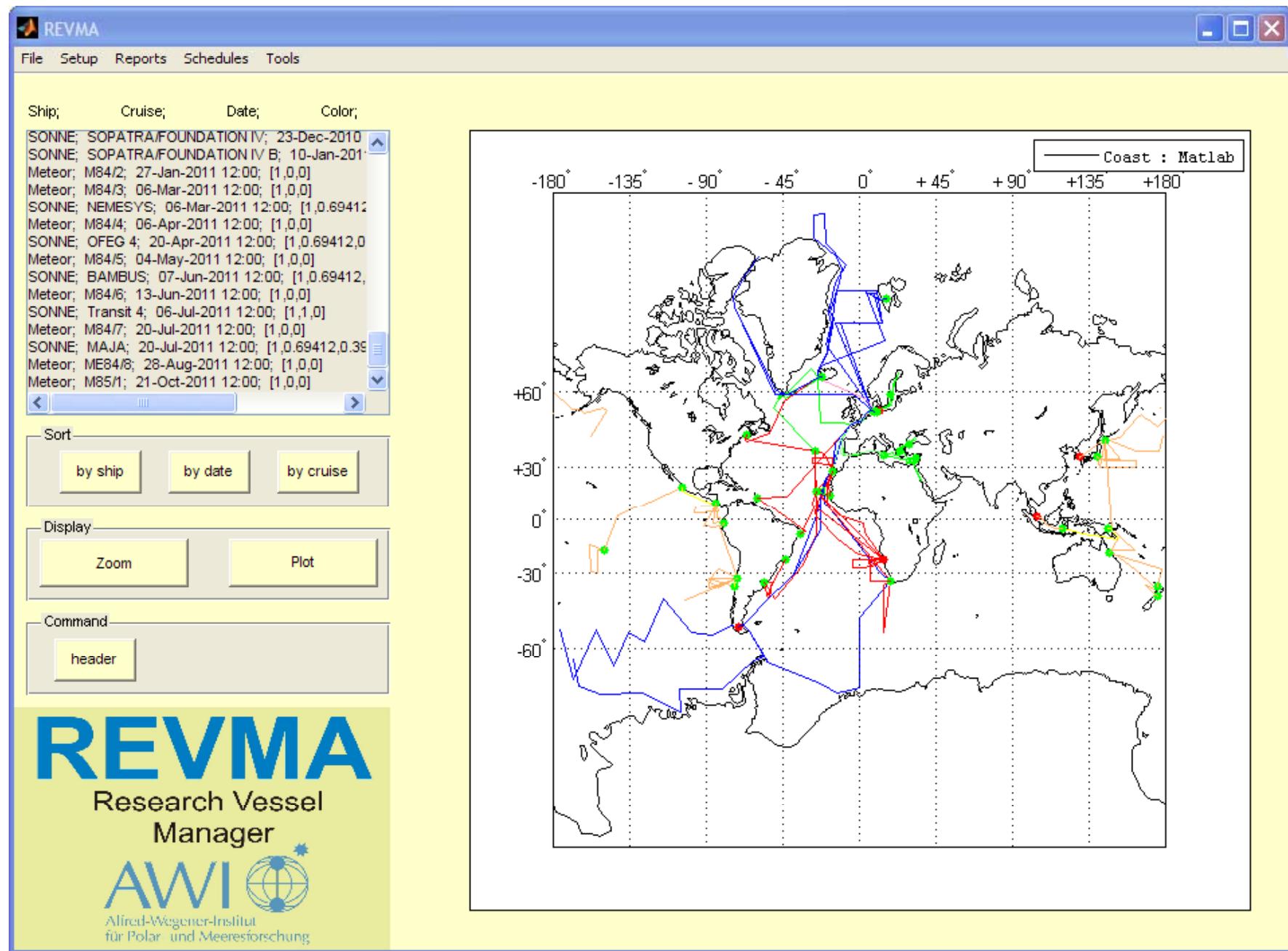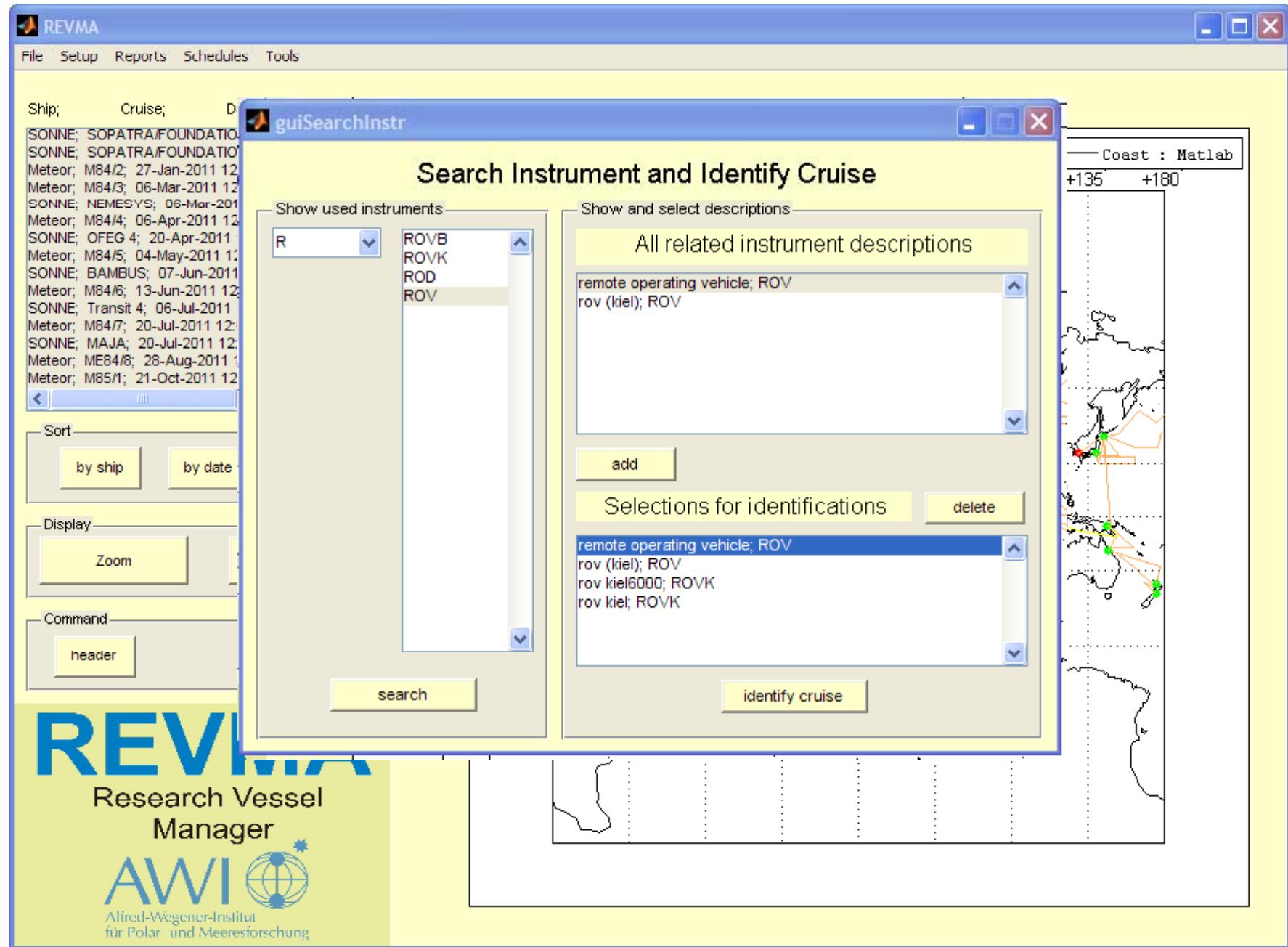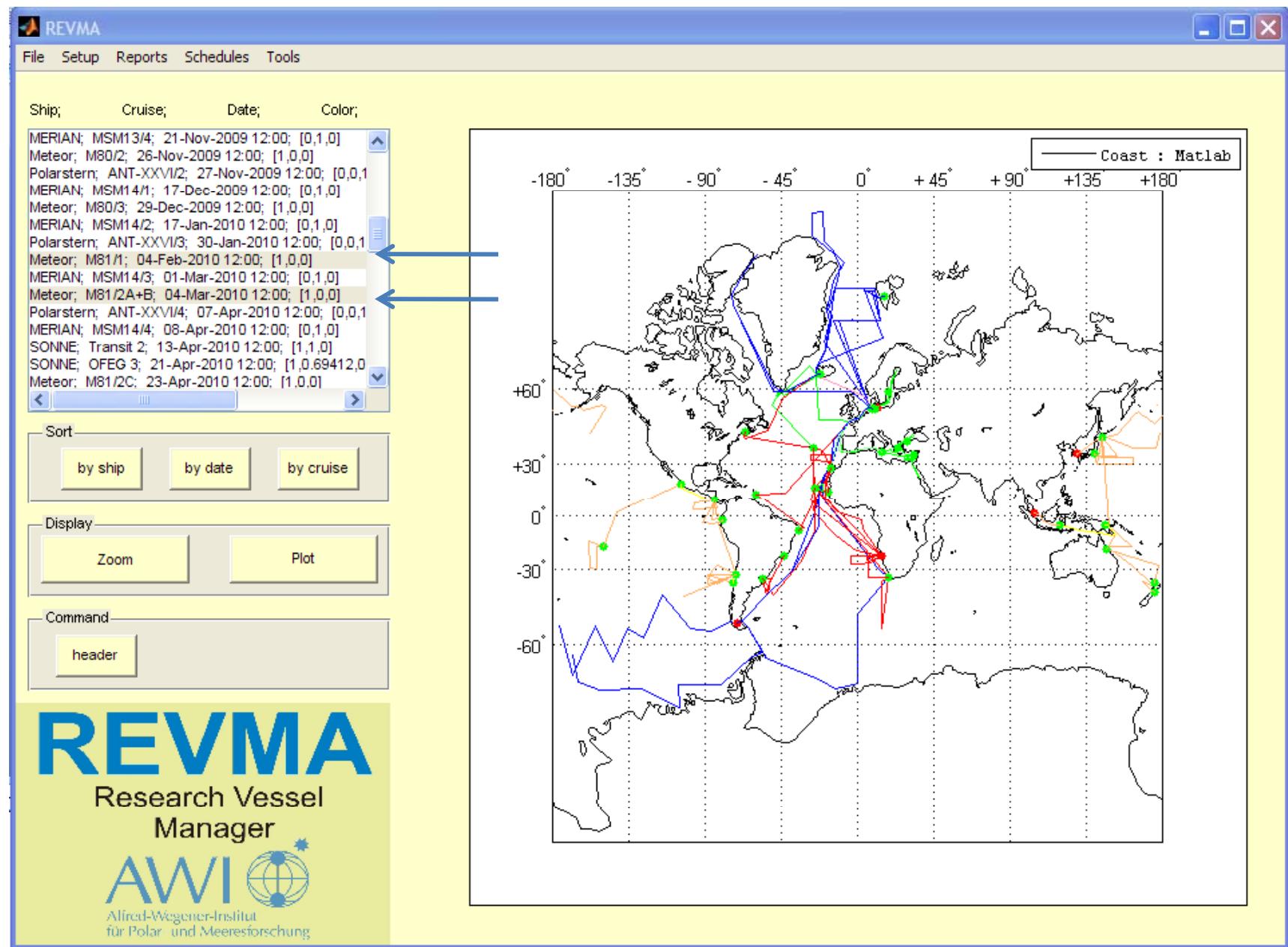Showing examples with the software **REVMA**
(Research Vessel Manager)
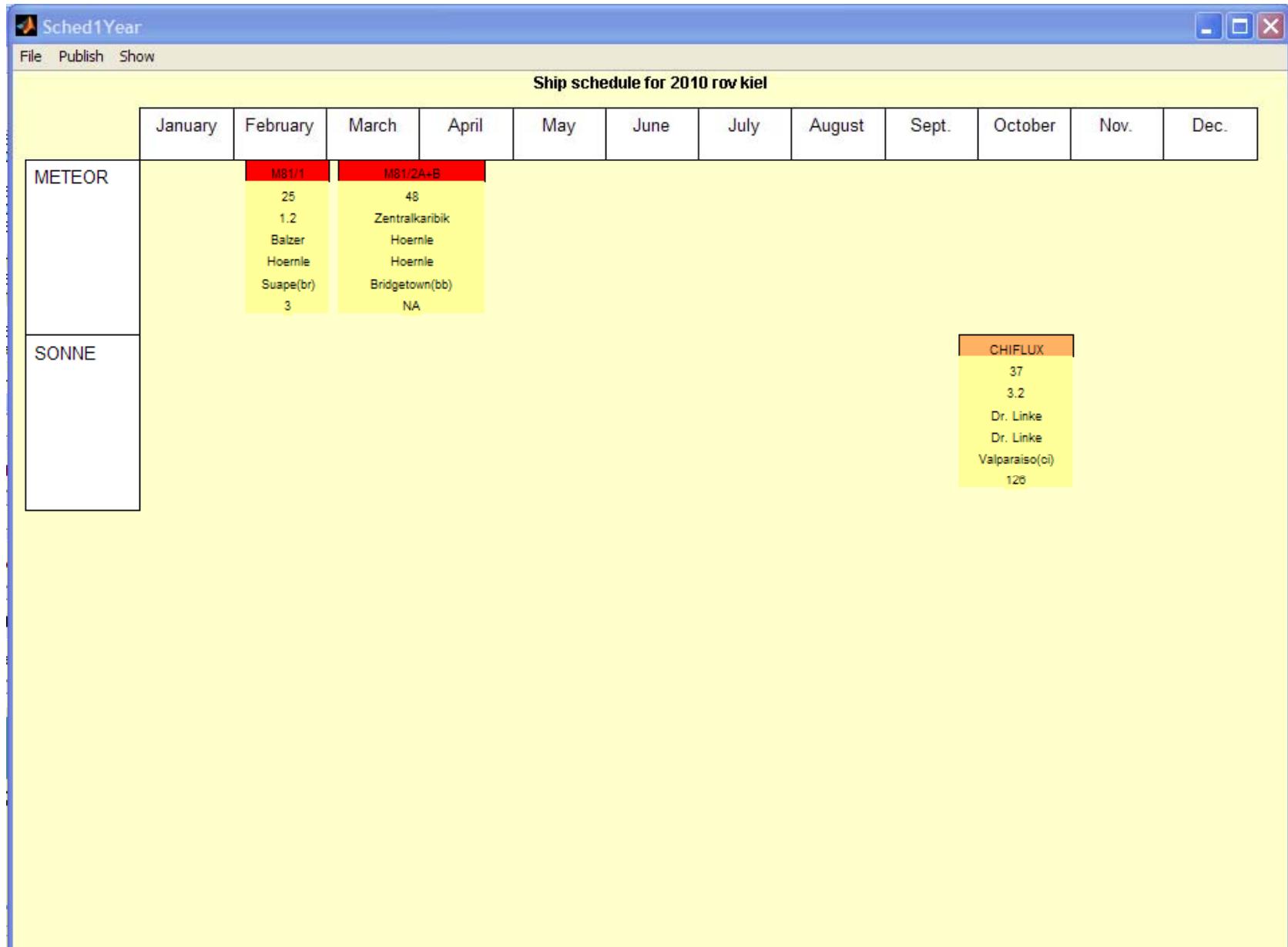
Displaying different cruises

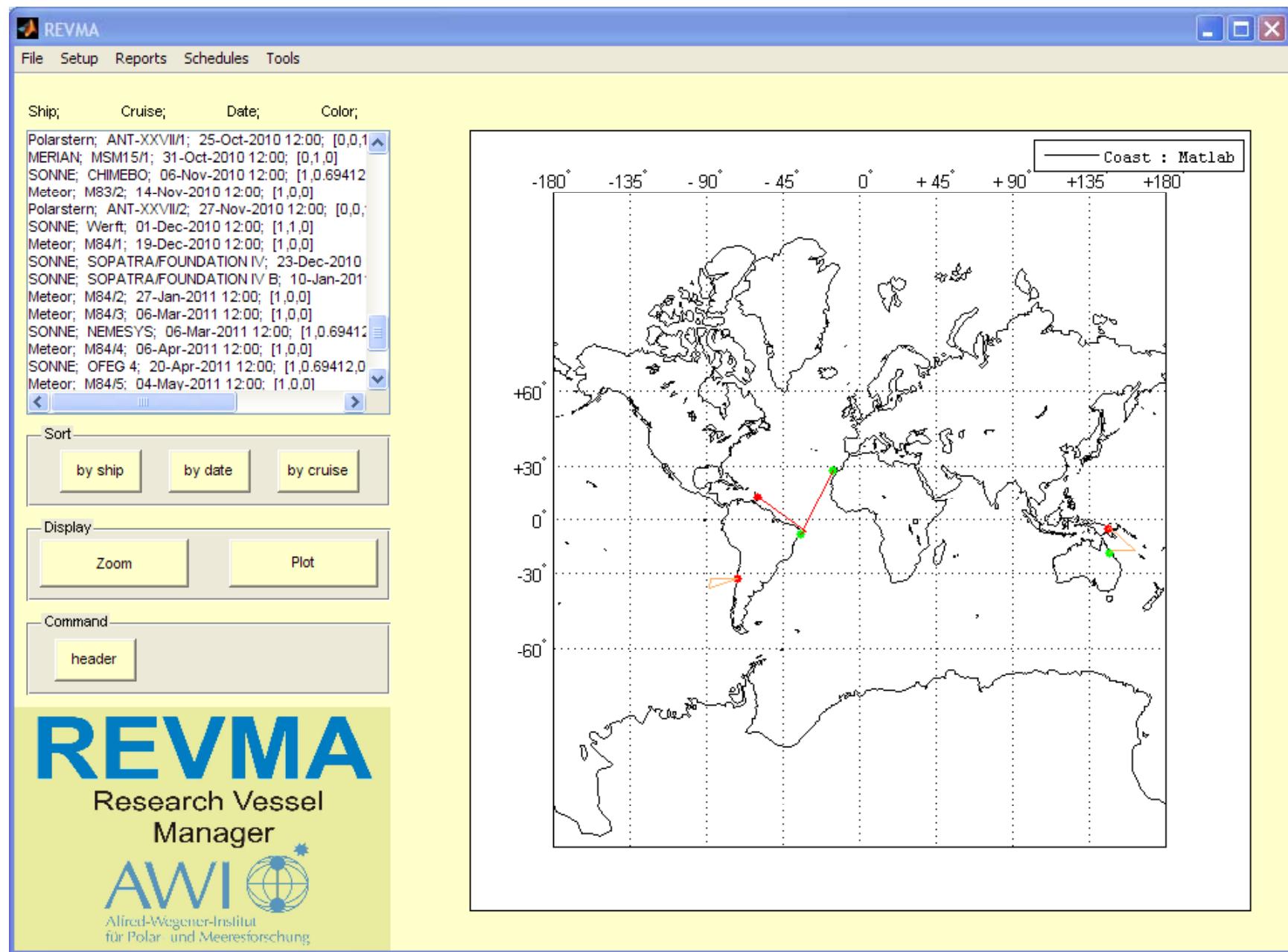# Search for an instrument

Viewing the search result

Viewing the search result as bar diagram

Viewing the search result: the map

Cruises of 4vessels planned for year 2010

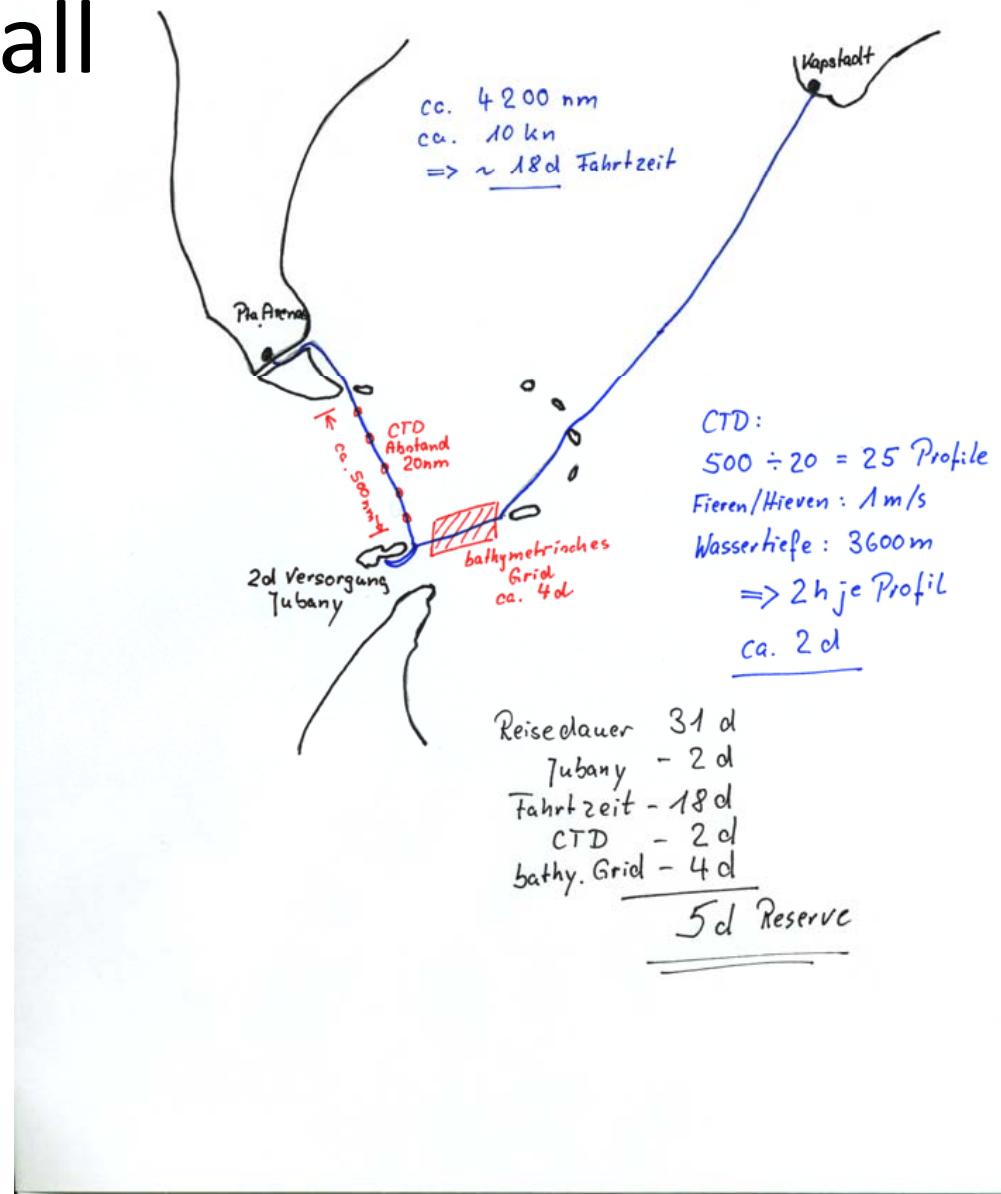Criticism: "It is to much work to edit all cruise plans for REVMA!"

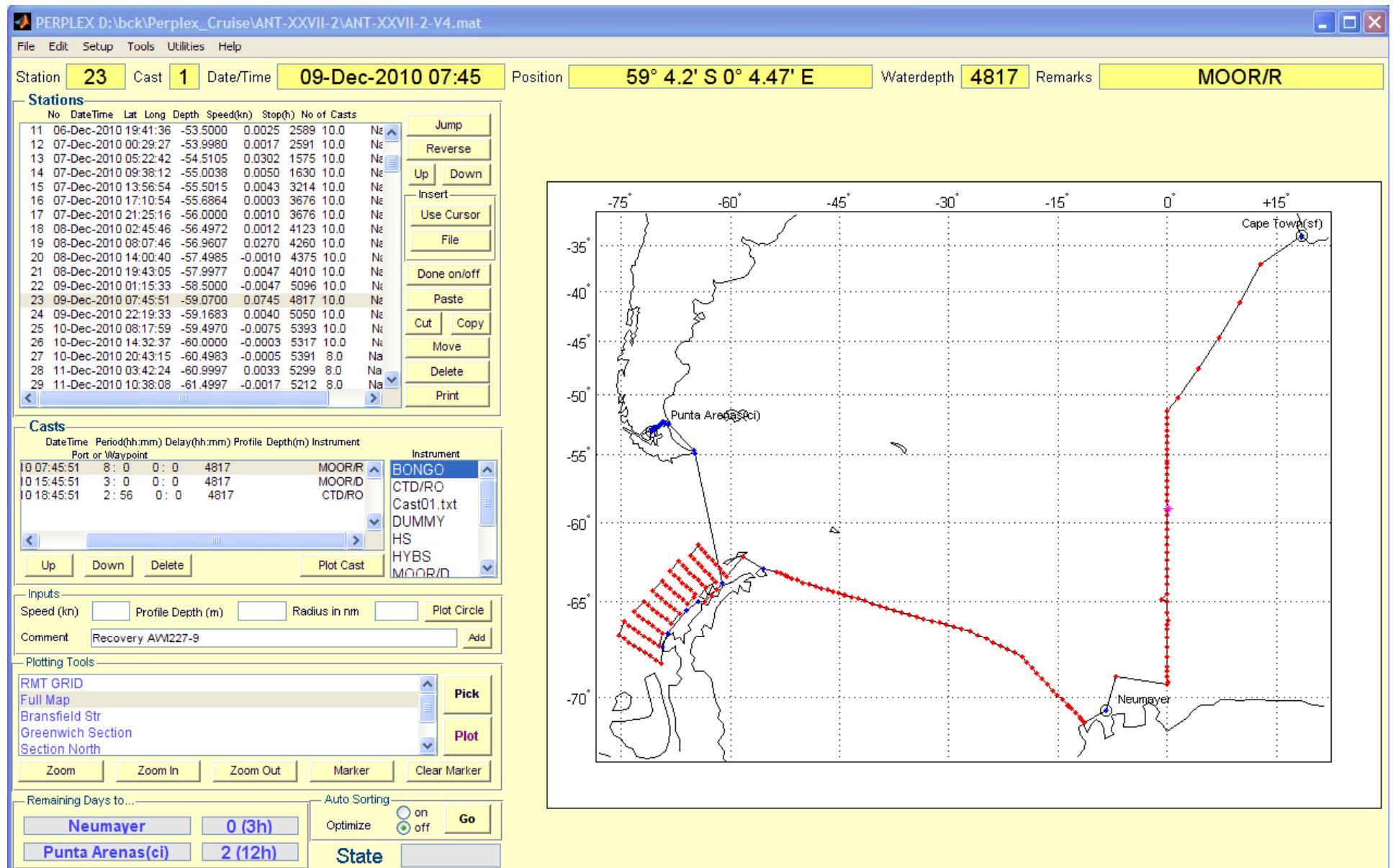# Creating electronic cruise plans – quick and easy
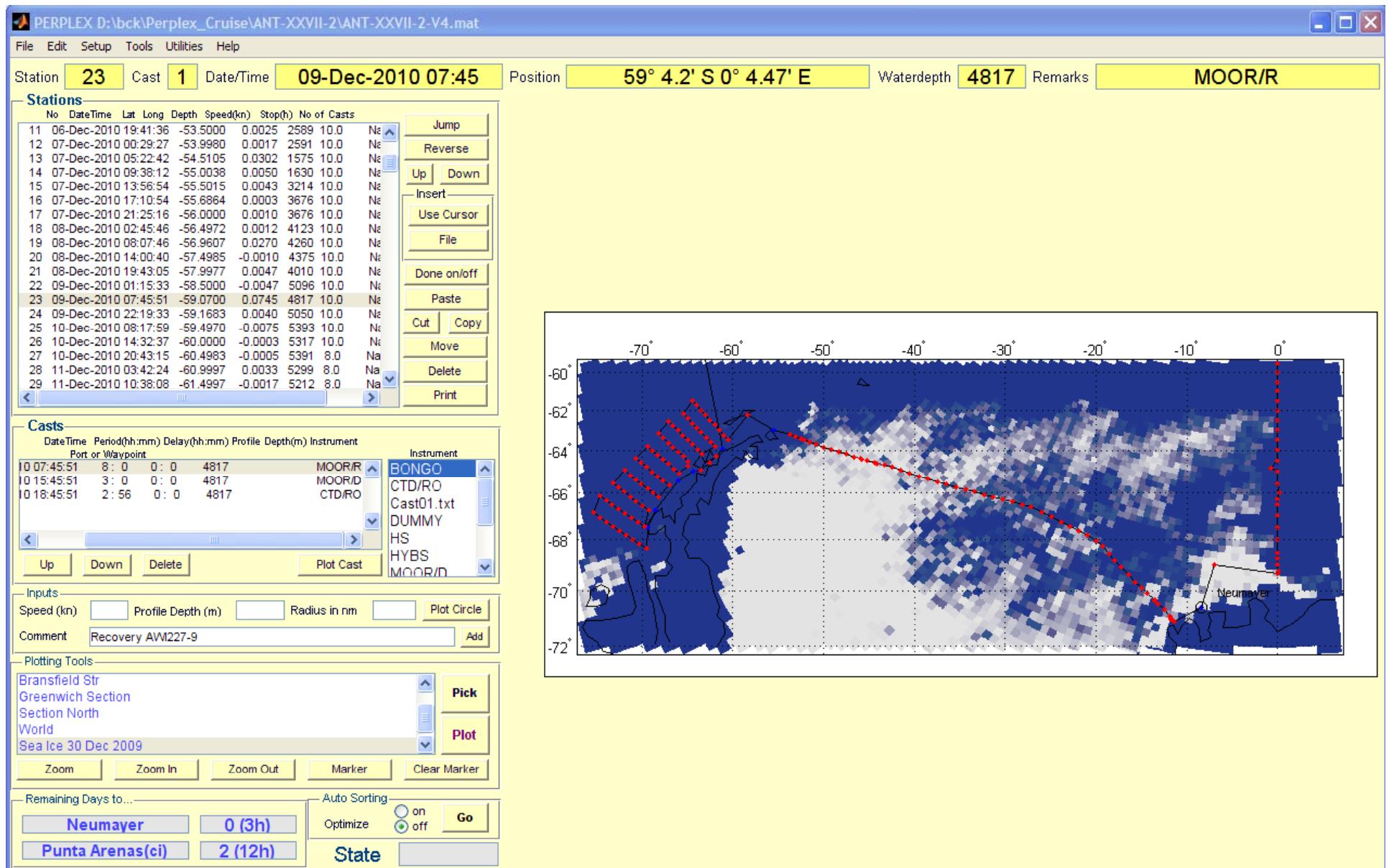
Showing examples with the software **PERPLEX**

(**P**rogram for **E**xpedition **R**oute **Pl**annung and **Ex**ecution)
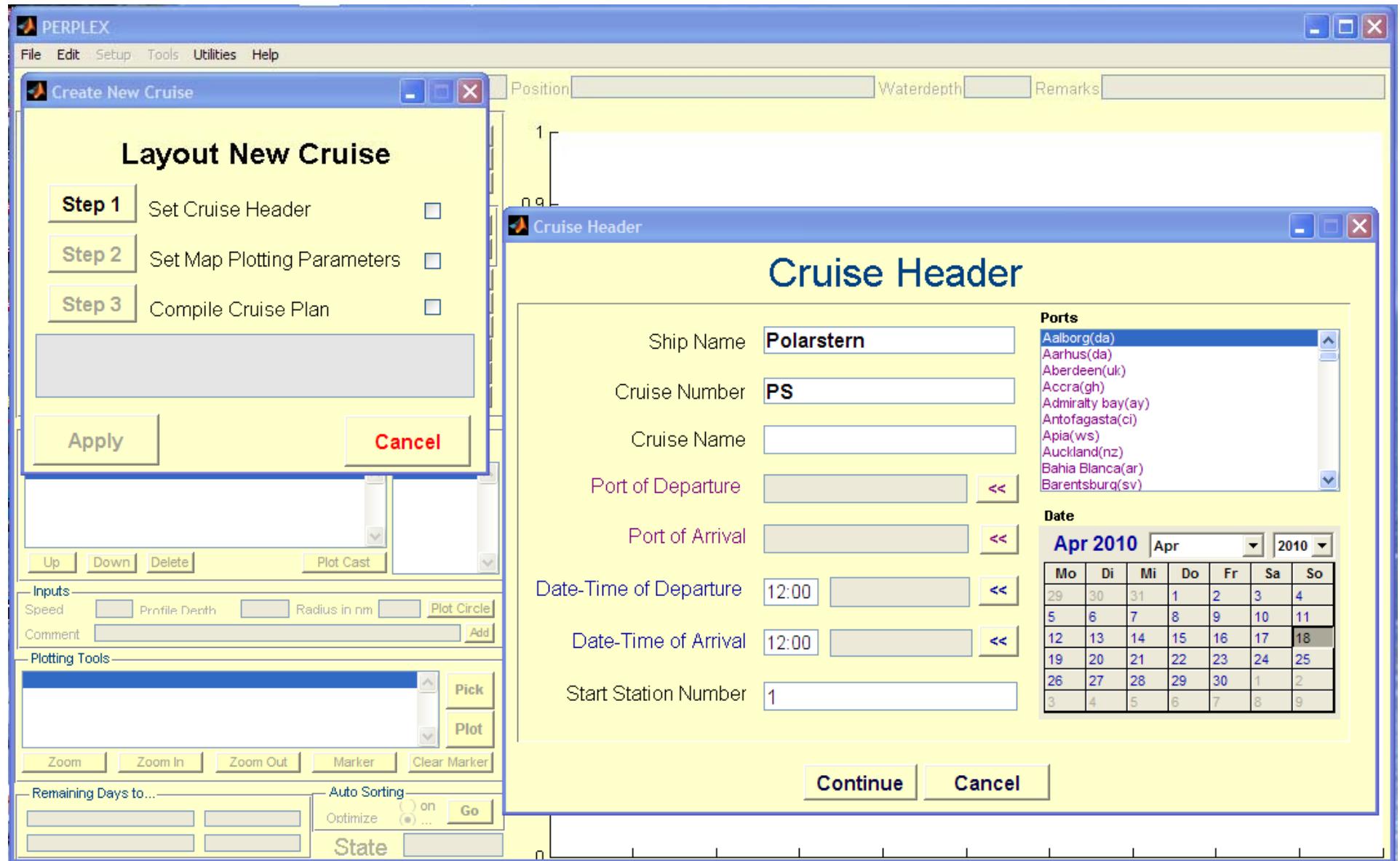
The PERPLEX GUI

Example how to use external data

"**Utilities-Generate Cruise**" can be used instead to create a number of new cruises.

"**Utilities-Generate Cruise**" reads the inputs from EXCEL spread sheet.

Summary

➢ REVMA is a toolbox within PERPLEX

➢ PERPLEX can be downloaded from: http://perplex.awi.de or send email to:
Gerd.Rohardt@awi.de

➢ Ask for longer testing period if needed (standard is 12 month)

➢ License fee ranges between 100 and 1200 Euros

➢ Outlook for next release:

– Manual for REVMA

– Define Grid (includes waypoints for different calibration tracks) for seismic
or bathymetric surveys

– Define Section: compute positions for equal latitude- or longitude spacing

– Free text editing for printed station plans

– Real time plotting of ship positions

– Import of specific data formats used as "User Defined Contours"

– 3D-GEBCO contour of selected map area

– Show sunset and sunrise for selected waypoints or stations

➢ Long-term outlook:

Working on a support for PERPLEX and REVMA after year 2020!