REVMA - Vessel management software
(Research Vessel Manager)

REVMA is a toolbox within PERPLEX®
(Program for Expedition Route Planning and Execution)

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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.
What can be done if cruise plans exist 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 4 vessels planned for year 2010

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Cruises representing a shortcut:

**POLARSTERN**

**SHORTCUT: 11**
11.0 Cruise: MSM14/3
11.1 Cruise duration (in days): 35
11.2 Description: östliches Mittelmeer
11.3 Chief scientist: Hubscher
11.4 Coordinator: NN
11.5 Arrival port: Limassol(cy)
11.6 Time to next cruise (in days): 3

**SONNE**

**SHORTCUT: 12**
12.0 Cruise: MSM14/4
12.1 Cruise duration (in days): 30
12.2 Description: Schwarzes Meer
12.3 Chief scientist: Boetius
12.4 Coordinator: NN
12.5 Arrival port: Istanbul(tu)
12.6 Time to next cruise (in days): 3
Criticism: “It is too much work to edit all cruise plans for REVMA!”
Creating electronic cruise plans – quick and easy

Showing examples with the software **PERPLEX**

(Program for Expedition Route Planning and Execution)
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 spreadsheet.
Summary

- REVMA is a toolbox within PERPLEX
- PERPLEX can be downloaded from: [http://perplex.awi.de](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!