Navigations software - NaviPac

The NaviPac software is integrated navigation and data acquisition software specifically suited for applications like:
● General navigation
● Hydrographic & oceanographic surveying
● Geophysical & seismic surveying

MODULARITY – NaviPac is modularity through use of multi tasking, multithreading and networking capabilities of the Windows NT, Windows 2000 and Windows XP operating system. The software is highly flexible and user configurable and the user interface adhere to The Microsoft Interface Guidelines making it very intuitive and easy to operate (figure 4).

NAVIGATION SET-UP – The NaviPac set-up module provides easy selection of geodetic parameters, navigation systems, devices, offsets and port settings.

DEVICE I/O DRIVERS – A vast number of field-tested device I/O drivers are provided for most available positioning systems, GPS/DGPS receivers, gyros, motion/attitude sensors, tide-gauges, single beam echosounders, magnetometers, dynamic positioning systems, autopilots, etc. Generic I/O drivers allow definition or customization of own device I/O drivers. Data is interfaced via RS232, a LAN or via a digital I/O interface

TIME SYNCHRONIZATION – Time stamping of sensor data, incoming as well as outgoing, can be done in two ways, either by the internal computer clock or by he PPS output available from most GPS receivers. Using the PPS output data are synchronized relative to the GPS/UTC time frame, resulting in an accuracy of a few milliseconds.

SURVEY PLANNING – NaviPac allows for survey planning through quickly creation of planned survey area and survey lines. A variety of methods for creation of survey lines is provided, e.g. by click-and-drag (of mouse/trackball), input of survey line coordinates, offset (parallel) survey lines, cross lines, circles, arcs etc. Survey lines can easily be adapted to fit a defined survey area. Creation of templates allows input of other data formats.
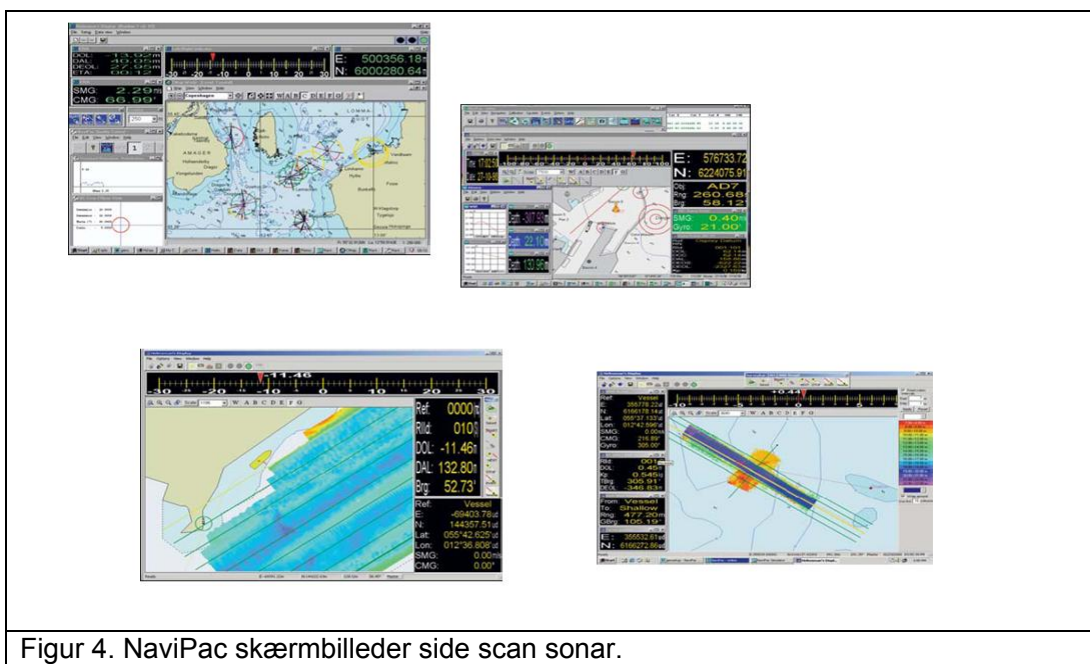
Figur 4. NaviPac skærmbilleder side scan sonar.