APOS Trainer
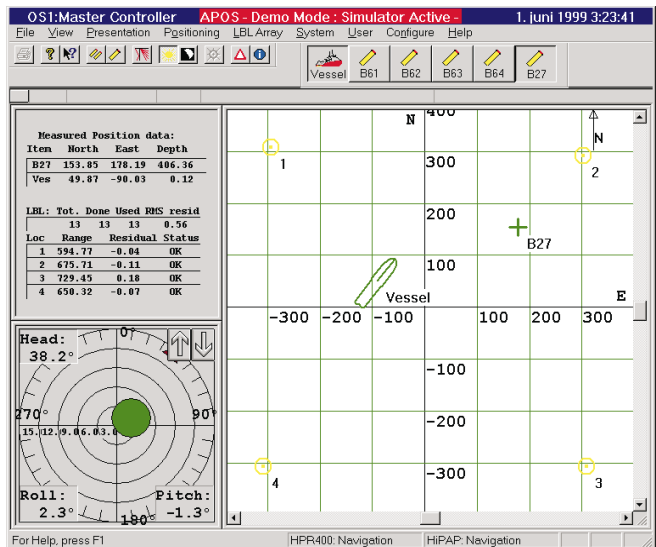## HiPAP/HPR operation system on your computer

The HiPAP® and HPR operation system is now available as a Trainer version supplied on a CD-ROM for installation on your own computer.

The APOS Trainer is operated as a normal HiPAP/HPR system, where **a simulator replaces the transceiver and the transponders.**

The APOS Trainer is suitable for training, planning and demonstration purposes.

Features

• **A CD containing full APOS** software with all options (except for some special Offshore Loading System functions). Defined with one HiPAP and one HPR 400 transceiver.

• APOS **Instruction manual**.

• **Online Help** function.

• Sound velocity **ray-trace calculation** with displaying of deflection based on velocity profile input. An example of operator presentation is presented in the figure on the reverse page.

• SSBL (Super-Short Base Line) positioning of transponders.

• Telemetry communication with transponders.

• Calibration of LBL (Long Base Line) arrays.

Typical LBL and SSBL operator presentation

• LBL positioning in the LBL array calibrated by the Trainer. An example is shown in the figure. The vessel is positioned in the LBL array with the locations 1, 2, 3 and 4, and the SSBL transponder B27 is positioned relative to the vessel.

• LBL positioning in an LBL array set up by you. In this way you may examine the expected accuracy when positioning in different arrays, and thereby plan your LBL array.

• Data output for **testing telegram interfaces** to external computers (transmits standard HiPAP/HPR telegrams).
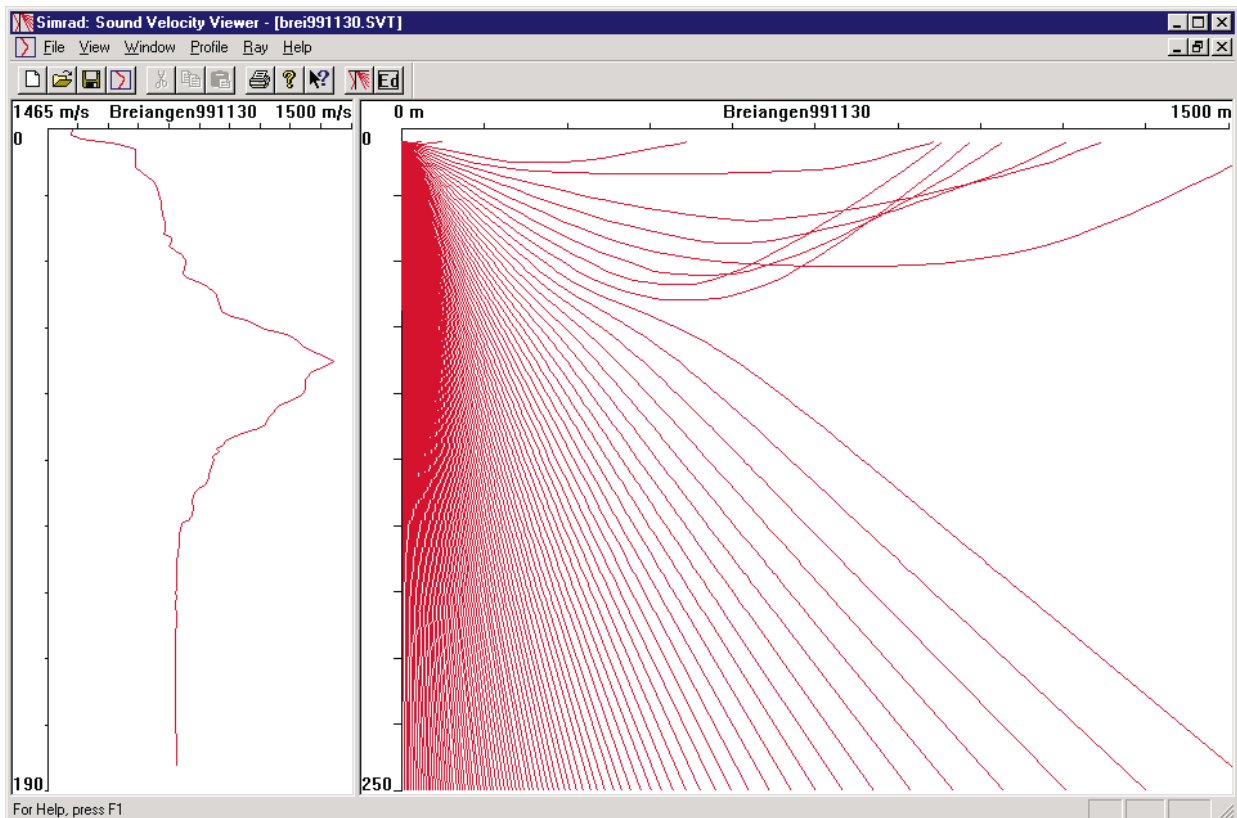
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What is APOS?

The HiPAP and HPR 400 Series of systems are both controlled and operated using the APOS (Acoustic Positioning Operator System) software. The APOS software runs on a Windows NT platform, with standard Windows graphical user interface.

The APOS is normally operated on a HiPAP/HPR Operator Station (stand alone system). The APOS software runs on an APC 10 computer when delivered as a stand-alone system, or on a COS 100 unit in an integrated Dynamic Positioning (DP) and HiPAP/HPR system.

APOS Trainer program requirements

- A personal computer with CD-ROM, running Windows NT 4 service pack 3 or newer.

- A monitor with minimum 800x600 resolution.

- A network card (or MS loopback adapter)

Sound velocity curve and calculated ray-bending

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