



## **Going deep with Norwegian Hydrographic Office** Data Conversion of Hydrographic Fair Sheets

During the last 100 years man has by means of simple methods, measured water depths resulting in hydrographic fair sheets (hydrographic smooth sheets).

These old maps are basically the only means of information about the sea bed. Today's important challenge is converting such maps into a Digital Format. Until recently the conversion is done by means of manual conversion or voice recognition. ProCaptura, The Norwegian Hydrographic Service (NHS) (<http://www.statkart.no>) and SND (<http://www.snd.no>) have completed a joint research and development program for efficient, accurate quality control conversion of such fair sheets. The result is HydroCap®. At the moment used by UKHO, Marina Italia, The Swedish Maritime Administration, and ProCaptura as service provider for the NHS.

Thousands of hand written numbers on each of the original Hydrographic Fair Sheets is manually converted today. This production method is time consuming but important, since these originals describe depths information covering the worlds extensive coastline.

ProCapturas new HydroCap®. Automatic conversion line are reducing the time of today's production, offering automatically calculated depth points and guaranteeing the quality of the converted fair sheet.

### **SUMMARY**

#### **ProCaptura solution for hydrographical fair sheets**

The Norwegian Hydrographical Service reduced the time spent on their conversion process and at zero percent error rates. This was achieved using ProCapturas pattern recognition technology and workflow in a semi automatic conversion line.

- Scan Centre and complete production workflow

ProCapturas HydroCap® automatic conversion line consists of:

- HydroCap® software for capturing data from hydrographical fair sheets
- Automatic recognition of lines, symbols and numbers
- Integrated quality control and error detections
- Export to generic ASCII file, other formats on request

Please see technical specification for all features provided by HydroCap®