













Fact sheet hydroCap™

Quality: Integrated quality controls minimize the error rate. No digits are lost and must either be part of a number or be rejected by the operator. Automatic consistency controls and detection of unreasonable values secures the accuracy and quality of the result. Final inspection by the operator through visual inspection applying a range of different presentations of the data. Automatic guidance to problem areas.

Efficiency: Automatically OCR recognition of signed, decimal number. Efficient operator control of thousand of OCR results at a glance. Automatic grouping of digits into signed, decimal numbers. Automatic detection of suspicious values.

User defined number positions:

A	B	C	D	E
			11.3	
			3.6	
			3.	

Export formats: Generic ASCII file. Other formats on request.

Scanning: KartoScan FB IV high accuracy (picture inside brochure). 110 cm x 150 cm, 1200 dpi, back light scanning.

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HydroCap™ 3.0

“After three years of collaboration with proCaptura we now produce digital soundings from hydrographic fair sheets considerably more efficient and with an extremely high accuracy. The first 100 000 converted soundings where all converted correctly with proCaptura's software (0% error rate)”

Frode Klepsvik, Director, Norwegian Hydrographic Service



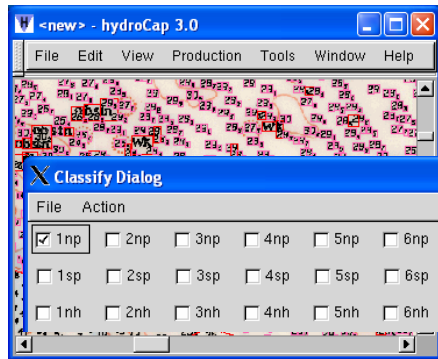
Scanning

The efficiency in the conversion project depend on the quality on the raster image. An average line width of a digit should at least be 3 pixels wide in the scanned image, all depending on the quality on the digits (original). For the Norwegian Hydrographic Service we scan between 508 dpi and 1016 dpi on the most complex sheets



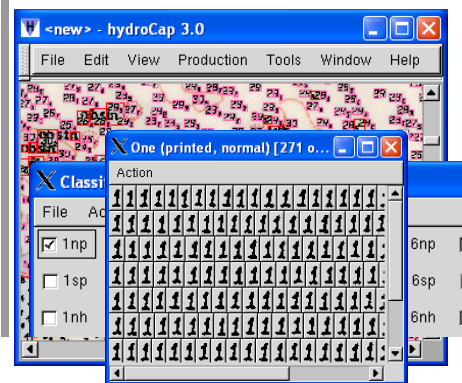
Efficiency

HydroCap™ uses segmentation methods, statistical pattern recognition methods and context information to recognize text. 30.000 objects are recognized in a few minutes before the recognized objects are placed into the corresponding boxes for quality control



OCR control

Operator supervised quality control ensures that all the numbers are correctly recognized. Special handling of unclassified objects. Quick control at a glance and efficient editing tools secures accuracy and prevents operator errors.



Undefined

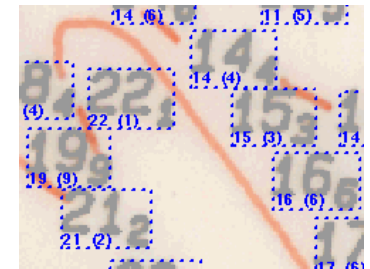
Unrecognized objects are identified. The operator can interactively classify the objects or cleanup the raster objects.



Due to a bad original, connected and separated characters will be reconstructed to single characters and recognized.

Digits to numbers

HydroCap™ automatically groups digits into numbers. Numbers can consist of decimals in subscript. Subscript digits may have different size from the decimal part of the number. The number may be signed. The sign may have different locations. HydroCap™ automatically vectorize iso-baths (depth curves)



Quality control

Tools for automatic consistency control are available. The operator is guided to problem areas and can easily inspect the problems and rectify errors. Various color presentation options are available for visually inspection. Data are exported to an open ASCII format

