

## Contents Review

## Contents Review International Hydrographic Review (July 2000 - December 2004)

### Articles

**Al-Abdulla, Ali Abdulla; Vladan Jankovic**  
Airborne Laser Bathymetric Survey of  
Qatar's Coastal Waters  
*December 2003, page 50*

**Alexander, Lee**  
Harmonising Chart and Navigation  
Information on ECDIS  
*December 2001, page 39*

**Alkan, Reha Metin**  
Hydrographic Surveying without a Tide  
Gauge  
*June 2001, page 68*

**Angrisano, Giuseppe**  
Work of the IHO to Promote Activities of  
National Hydrographic Offices to Pro-  
vide Reliable Nautical Charts  
*April 2002, page 20*

**Barnum, Steve**  
Setting Nautical Charting Priorities  
A Regional Approach for Managing Lim-  
ited Sources  
*June 2001, page 45*

**Bateman, Sam**  
Hydrographic Surveying in Exclusive  
Economic Zones: Jurisdictional Issues  
*April 2004, page 24*

**Beaudoin, J.D.; J.E. Hughes clarke,  
J.E. Bartlett**  
Application of Surface Sound Speed  
Measurement in Post-processing for  
Multi-sector Multibeam Echosounders  
*November 2004, page 17*

**Bennett, John Overton**  
Examples of Mapping 'The Foot of the  
Continental Slope' with 'The Surface of  
Directed Gradient' Algorithm Using  
NOAA's ETOPO5 Database  
*April 2002, page 88*

**Beyer, Andreas**  
High-resolution Bathymetry at the Euro-  
pean Continental Shelf  
*December 2003, page 58*

**Bisnath, Sunil; David Wells, Stephan  
Howden, David Dodd, Denis Wiesen-  
burg, Gregory Stone**  
Development of an Operational RTK  
GPS-equipped Buoy for Tidal Datum  
Determination  
*April 2004, page 54*

**Bourgoin, Jean; Etienne Taillemite**  
The Baudin Expedition to Australia  
1800-1804  
*April 2002, page 6*

**Boyle, Tony; Ian Rodrigues, Robert Ward**  
An Investigation Regarding Seafarers'  
Resistance to Using ECDIS Black-back-  
ground Chart Display Modes  
*August 2002, page 27*

**Calder, Brian**  
Automatic Statistical Processing of  
Multibeam Echosounder Data  
*April 2003, page 53*

**Calder, Brian; Shep Smith**  
A Time Comparison of Computer-assist-  
ed and Manual Bathymetric Processing  
*April 2004, page 10*

**Carpine-Lancre, Jacqueline**

Origins of a Lasting Bathymetric Endeavour  
*August 2003, page 6*

**Carron, Michael J.; Peter R. Vogt, Woo-Yeol Jung**

A Proposed International Long-term Project to Systematically Map the World's Ocean Floors from Beach to Trench: GOMaP; Global Ocean Mapping Program  
*December 2001, page 49*

**Casey, Michael J.**

ENC Protection Schemes: Central Technology and Policy Issues  
*July 2000, page 45*

**Clarke, John E. Hughes**

Dynamic Motion Residuals in Swath Sonar Data: Ironing out the Creases  
*April 2003, page 6*

**Collier, P.A.; B.A. Murphy, D.J. Mitchell, F.J. Leahy**

The Automated Delimitation of Maritime Boundaries - An Australian Perspective  
*April 2002, page 68*

**Cowan, Matthew**

Liquid Crystal Display; LCD Monitors for ECDIS Applications  
Update Report  
*April 2002, page 101*

**Cronin, Doug; Mel Broadus, Barbara Reed, John Shannon Byrne, Walter Simmons, Lindsay Gee**

Hydrographic Workflow - From Planning to Products  
*December 2003, page 22*

**David, Andrew**

Further Light on James Cook's Survey of Newfoundland  
*December 2000, page 6*

**David, Andrew**

From Mutiner to Hydrographer  
The Surveying Career of Peter Haywood  
*August 2002, page 6*

**Debese, Natalie**

Use of a Robust Estimator for Automatic Detection of Isolated Errors Appearing in the Bathymetry Data  
*September 2001, page 32*

**Debese, Natalie**

Determination of the Insonification Area of a Multi-

beam Echosounder Using a Front Propagation  
*December 2003, page 83*

**DeBow Jr., Samuel P.; C. Brian Greenawalt, Jeffrey Ferguson**

NOAA Contractor Partnership  
How NOAA Uses Private Industry to Support Nautical Charting  
*July 2000, page 62*

**Demoulin, Xavier; Yann Stéphan, Laurent Péli-sero**

Operational Feasibility of the Geoacoustic Inversion of Equivalent Media: Principle and Application to the INTIMATE96 Data  
*April 2004, page 84*

**Dobson, Richard**

International Co-operation to Improve Safety of Navigation in the Southern Red Sea  
*August 2002, page 35*

**Dorst, Leendert L.**

Survey Plan Improvement by Detecting Sea Floor Dynamics in Archived Echo Sounder Surveys  
*August 2004, page 49*

**Doyle, Joe**

Matthew Flinders: Pathway to Fame  
*June 2001, page 6*

**Eeg, Jørgen**

Verification of the Z-Component in the RTK Survey of Drogden Channel  
*August 2004, page 16*

**Ehlers, Peter**

Hydrographic Services at the Crossroads  
*November 2002, page 6*

**Eisler, Thomas J.**

Ray-path Stability in Coastal Waters  
*December 2000, page 30*

**Elema, Ina; Kees de Jong**

Maritime Boundaries in the North Sea: a Review  
*December 2001, page 17*

**Ellmer, Wilfried; Bernd Vahrenkamp**

Survey the 'Jadebusen' As an Example of Hydrographic Surveys for Multiple Uses  
*August 2003, page 73*

**El-Rabbany, Ahmed; Benson Agi, David Colema**

A Model for Automatic Integration of Ice Information into Electronic Navigational Chart  
*April 2004, page 74*

**Evangelatos, Timothy V.; C. Douglas O'Brien, Michael Casey, Don Vachon**

Hydrographic Data Standards and Standards-based Geospatial Data Infrastructures  
*August 2002, page 91*

**Fiedler, Hannelore M.; Doris Milkert**

Mosaics of Sediments and Structures on the Seafloor Mapped by Side Scan Sonar  
*December 2003, page 71*

**Fortes, Luiz P; Gérard Lachapelle, M. Elizabeth Cannon, Sam Ryan, Guy Marceau, Sun wee, John Raquet**

Use of a Multi-reference GPS Station Network for Precise 3D Positioning in Constricted Waterways  
*July 2000, page 15*

**Furlong, Arnold; Mike Lamplugh**

In-situ Underway Sound Velocity Profiling for Calibration of Multibeam Sounders Using a Moving Vessel Profiler; MVP  
*December 2000, page 47*

**Gorziglia, Hugo**

Chilean Hydrographic Surveyors' Contribution to Coastal Zone Management  
*December 2001, page 31*

**Gray, David H.**

The Geodetic Properties of the Equidistance Line  
*April 2003, page 24*

**Guenther, Gary C.; W. Jeff Lillycrop, John R. Banic**

Future Advancements in Airborne Hydrography  
*August 2002, page 67*

**Haga, Kjersti Helene; Freddy Pøhner, Kjell Nilsen**

Testing Multibeam Echosounders versus IHO S-44 Requirements  
*August 2003, page 31*

**Harre, Ingo**

A Standardised Algorithm of the Determination of Position Errors by the Example of GPS with an without 'Selective Availability'  
*June 2001, page 29*

**Härtin, Alexander; Jörg Reinking, Wilfried Ellmer**

Ship Squat in Hydrography - a Study of the Surveying Vessel Deneb  
*November 2004, page 41*

**Hide, Christopher; Terry Moore, Martin Smith**

Performance of GPS and Low-cost INS Integration in Marine Surveying  
*August 2004, page 64*

**Holroyd, Paul N.**

Developing a Print on Demand Service in the Canadian Hydrographic Service  
*December 2000, page 24*

**Huang, Ju-Chin**

Consumer Perceived Economic Value of Electronic Charts  
*August 2004, page 37*

**Hudson, Mark**

Electronic Navigational Charts from Survey Source Information - The Australian Experience  
*December 2000, page 13*

**Jakobsson, Martin; Larry Mayer, Andrew Armstrong**

Analysis of Data Relevant to Establishing Outer Limits of a Continental Shelf under Law of the Sea Article 76  
*April 2003, page 36*

**Johnson, Peter**

'ZOCman Cometh' or 'On the Application of Category of Zone of Confidence in the Australian Hydrographic Service'  
*November 2004, page 6*

**Jonas, Mathias**

ECDIS Type Approval According to International Standards  
*December 2000, page 41*

**Jonas, Mathias; Johannes Melles**

Study on ENC Loading Strategy in Relation to SCAMIN Effects and 'Overscale' Indications  
*August 2003, page 41*

**Ishihara, Kenichiro; Hidetoshi Ueda**

Charlet Compilation and Maintenance of Digital Charts by the Electronic Navigational Chart System  
*September 2001, page 66*

**Komaritsyn, A.A.; I.M. Miroshnikov**

The 175th Anniversary of the Russian Navy Hydrographic Service

August 2002, page 103

**Komrakov, Evgeny**

Potential Markets for Electronic Charts

July 2000, page 54

**Kopacz, Z.; W. Morgas, J. Urbanski**

Hydrography: Its Present State and Future Development

April 2003, page 69

**Lalancette, Marie-Françoise; Michel Crouzat**

Bay of Somme: Magnetic Survey and Obstructions Detection

September 2001, page 6

**Lanziner, Helmut H.**

Impact of Radar Integration with Electronic Charting

June 2001, page 53

**Leculier, Jean-Michel**

Evaluation of the Multi-site Differential GPS System Multifix Onboard the Hydrographic Vessel L'esperance

September 2001, page 45

**Liu, Yanchun; Mingsan Li, Fumin Xiao, Jingyang Bao, Motao Huang**

A Method for Detecting an Adjusting Systematic Errors of Singlebeam Sounding Data Acquired in a Grid Pattern

April 2004, page 34

**Lurton, Xavier**

Theoretical Modelling of Acoustical Measurement Accuracy for Swath Bathymetric Sonars

August 2003, page 17

**MacNab, Ron; Martin Jakobsson**

Something Old, Something New

Compiling Historic and Contemporary Data to Construct Regional Bathymetric Maps with the Arctic Ocean As a Case Study

July 2000, page 30

**McConnell, Anita**

L.F. Marsigli; 1658-1730: Early Contributions to Marine Science and Hydrography

August 2004, page 6

**Monahan, David; Horst Hecht, Dave Wells, Maureen R. Kenny, Aldino Campos**

Challenges and Opportunities for Hydrography in the New Century

December 2001, page 56

**Monahan, David; Dave Wells**

The Use of the International Hydrographic Organisation's 'Standards for Hydrographic Surveys' As a Measure of Depth Accuracy in Continental Shelf Determination

April 2002, page 59

**Moore, Terry; Vidal Ashkenazi, Mark Dumville**

Implementation of WGS84 and GPS for Marine Navigation

June 2001, page 19

**Mori, Hirokazu; Tadashi Yamamoto, Isao Tedokon**

Hydrographic Survey Using SEABAT

September 2001, page 70

**Motao, Huang; Zhai Guojun, Ouyang Yongzhong Liu Yanchun, Lu Xiaping, Wang Rui**

The Influence of Carrier's Attitude and the Position Reduction in Multibeam Echosounding and Airborne Laser Depth Sounding

December 2001, page 77

**Motao, Huang; Zhai Guojun, Ouyang Yongzhong Liu Yanchun, Lu Xiaping**

Progress and Prospects of Hydrographic Surveying Technology in China

April 2004, page 65

**Motz, Florian; Heino Widdel, Parry Oel, Scott MacKinnon, Lee Alexander**

Investigation for Ergonomic Presentation of AIS Symbols on ECDIS

August 2004, page 26

**Müller, Sabine; Jens Wunderlich**

Detection of Embedded Objects Using Parametric Sub-bottom Profilers

December 2003, page 76

**Neto, Paul; Rob van de Poll**

On the Relative Effects of Using Sector or Median Lines for Partitioning the Juridical Continental Shelf beyond 2,000 Nautical Miles in the Arctic Ocean

June 2001, page 37

**O'Connor, Tony; Sean Hinds**

First Steps on the Quality Journey  
*April 2002, page 47*

**Oei, Parry**

Review of Recent Significant Technologies and initiatives Implemented to Enhance Navigational Safety and protect the Marine Environment in the Straits of Singapore and Malacca  
*December 2001, page 68*

**Parker, Bruce**

The Integration of Bathymetry, Topography and Shoreline and the Vertical Datum Transformations behind It  
*November 2002, page 14*

**Pineau, Lucia**

Tidal Streams along Brittany Northern Coast, France  
*September 2001, page 54*

**Pirozhnikov, Alexey**

Making Paper Charts Out of ENC's  
*August 2003, page 65*

**Pugh, David; John Hunter, Richard Coleman, Chris Watson**

A Comparison of Historical and Recent Sea Level Measurements at Port Arthur, Tasmania  
*November 2002, page 27*

**Ritchie, Steve**

Matthew Flinders's Great Voyage  
*December 2001, page 6*

**Schöne, Tilo; Christoph Reigber, Alexander Braun**

GPS Offshore Buoys and Continuous GPS Control of Tide Gauges  
*December 2003, page 64*

**Shaw, Richard**

Shallow Waters and Deep Pockets  
The Legal Liabilities of the Hydrographer  
*July 2000, page 69*

**Shibayama, Nobuyuki; Ken'ichi Yamaya, Shin Tani, Jun'ichi Namba**

Chromatic Consideration on the Colour of Nautical Charts  
*September 2001, page 77*

**Shu, Jian-Jun**

Prediction and Analysis of Tides and Tidal Currents  
*August 2003, page 57*

**Sinclair, Mark**

LADS Survey - A Case Study on Australia's Northwest Shelf  
*August 2002, page 53*

**Sjöberg, Lars E.**

The Three-point Problem of the Median Line Turning Point: on the Solutions for the Sphere and Ellipsoid  
*April 2002, page 81*

**Smirnov, Valentin G.**

Lieutenant F.F. Vrangal and Corvette 'Challenger'  
*April 2004, page 6*

**Smith, Shepard M.; Lee Alexander, Andrew A. Armstrong**

The Navigation Surface: A New Database Approach to Creating Multiple Products from High-density Surveys  
*August 2002, page 12*

**Tozawa, Minoru**

Search and Identification of a Sunken Ship Using a Multibeam Sounding System for Shallow Water - SEABAT  
*September 2001, page 85*

**Tuurnala, Tiina**

Intelligent Chart Production System to Meet the Requirements of Modern Nautical Chart Production  
*November 2002, page 47*

**Trainor, Neil; Jim Huggett**

Managing the Safe Operations of Shipping in the Great Barrier Reef and Torres Strait  
*November 2002, page 54*

**Uchida, Akio**

Application of Vertical GPS Positioning on Shipboard  
*September 2001, page 89*

**Vachon, Don; Pierre Lafond, Timothy V. Evangelatos**

Delivering Maritime Geospatial Data on the Web  
The Canadian Department of Fisheries and Oceans' GeoPortal  
*November 2002, page 63*

**Vachon, Don; Michel Poulin, Pierre Lafond, Timothy V. Evangelatos**

Publishing Marine Geospatial Data on the Web: the DFO GeoBrowser  
*November 2004, page 33*

**Vrbancich, Julian**

Airborne Electromagnetic Bathymetry Methods for Mapping Shallow Water Sea Depths  
November 2004, page 59

**Wainwright, Phillip; David McPherson**

The Implementation of the WEND Concept: The PRIMAR Experience  
December 2000, page 55

**Ward, Robert**

Paper Chart Information in a Digital Era - Some Considerations  
April 2002, page 34

**Woodworth, Philip L.; David E. Smith**

A One-year Comparison of Radar and Bubble Tide Gauges at Liverpool  
December 2003, page 42

**Wolf, Matthias; Gunter Liebsch, Andreas Richter, Reinhard Dietrich, Wilfried Ellmer**

Marine Motion Measurements Using GPS  
December 2003, page 6

**Wright, Peter**

United Kingdom Hydrographic Office Experience of Producing Electronic Navigational Charts  
August 2002, page 45

**Yabuki, Tetsuichiro; Yoshiharu Nagaya, Akira Asada**

Approach for the Realisation of Sea Bottom Crustal Deformation Observations: Targets and Tactics in Water around Japan  
December 2000, page 62

**Zhao, Jianhu; John E. Hughes Clarke, Steven Brucker, Garret Duffy**

On-the-fly GPS Tide Measurement along the Saint John River  
November 2004, page 48

**Notes****Aalst, Joost van**

ECDIS Regulations in the Real World  
June 2001, page 88

**Alexander, Lee**

ECDIS Type-approval - A Brief Primer  
June 2001, page 96

**Angrisano, Giuseppe**

XVIIth International Hydrographic Conference  
April 2002, page 112

**Bade, Alex; William A. Mackaness**

GIS As a Spatial Decision Support System for Off-shore Pipeline Route Optimisation  
August 2002, page 109

**Bennett, Peter**

Loch Ness Survey 2002  
April 2003, page 77

**Caporaso, U.; L. Sinapi, A. Vassallo**

Optimum Trigonometric Ellipsoidal Height, Direct and Inverse  
August 2004, page 82

**Casey, Michael J.**

A Note on Emerging Hydrographic Technology & Applications  
June 2001, page 80

**Douglas, G.R.; S.B. MacPhee**

Review of Special Publication No. 55 Status of Hydrographic Surveying and Nautical Charting Worldwide  
July 2000, page 78

**Eaton, Mike**

The IHO ECDIS Colours & Symbols  
December 2001, page 92

**El-Diasty, M.; A. El-Rabbany**

Sequential Sea-ice Concentration Prediction for Marine Operations in Ice-infested Waters  
August 2003, page 87

**Gubernatorov, Sergei S.**

Effective Voyage Planning  
December 2003, page 89

**Hecht, Horst**

WEND and RENC: Keywords for IHO's Distribution System for ECDIS Data – An Evaluation of Terminology and Concept  
July 2000, page 81

**Hecht, Horst**

Hydrographic GIS  
December 2000, page 71

**Iliffe, J.C.; A.J. Greenland**

Accreditation of the Hydrographic Surveying Course at UCL and the PLA  
*December 2001, page 89*

**Jolly, A.K.**

Co-tidal Reduction in Digital Hydrographic Survey  
*April 2003, page 82*

**Kafer, Bruce**

The Leeuwin Class Hydrographic Ships  
Enhancing the Royal Australian Navy's Knowledge of Its Operating Environment  
*June 2001, page 90*

**Le Gouic, Michel; Michel Even, Dominique Baggio, Fernando Pimentel, Paolo Brandao, Ian Turner, Mike Barrit, Bob Bullard**

Hydrographic Capacities Assessment in Western Africa  
*November 2004, page 85*

**Monahan, David; Robert van de Poll**

Measured Gradients of the Sea Floor at Depths of 2,500m and Their Possible Influence on the Outer Limit of Juridical Continental Shelves  
*November 2002, page 72*

**Sandvik, Robert**

Development of an IHO Data Protection Scheme  
*November 2002, page 77*

**Schleider, Wilfried**

International Technical Assistance and Co-operation - Fifteen Years of Joint FIG/IHO Work in TACC - A Survey  
*April 2003, page 87*

**Servicio de Hidrografia Naval Argentine**

History of the Argentinean Naval Hydrographic Service; 1879-2004 Marking Its 125th Anniversary  
*August 2004, page 77*

**Sinapi, L.**

External Alignment between Two Beacons at Different Elevation for Use in Bathymetric Operations  
*August 2003, page 83*

**Spaans, Jac.**

Practical Accuracy Standards for Positioning  
*August 2002, page 113*

**Book Review**

---

Bhattacharya, Manoshi

**Charting the Deep**

A History of the Indian Naval Hydrographic Department  
*November 2004, page 93*

Blake, John

**The Sea Chart**

The Illustrated History of Nautical Maps and Navigational Charts  
*November 2004, page 95*

Book P.J.; C.M. Carleton

**Continental Shelf Limits: The Scientific and Legal Interface**

*June 2001, page 98*

Bouzanquet, Pascale

**La Meridienne**

*August 2002, page 116*

Fisher, Susanna

**The Makers of Blue-black Charts**

A History of Imray Laurie Norie and Wilson Ltd  
*December 2001, page 103*

Gladwell, Malcolm

**The Tipping Point**

*December 2000, page 77*

Glover, William

**Charting Northern Waters**

Essays for the Centenary of the Canadian Hydrographic Service  
*August 2004, page 95*

Lurton, Xavier

**An Introduction to Underwater Acoustics Principles and Applications**

*August 2003, page*

MacPhee, Stephen B.

**The Electronic Chart**

Function, Potential and Limitations of a New Marine Navigation System  
*April 2003, page 92*

O'Connor, Tony

**To Go upon Discovery**

*June 2001, page 101*

Pugh, David

**Changing Sea Levels**

Effects of Tides, Weather and Climate  
August 2004, page 93

Ritchie, Steve

**As it Was - Highlights of Hydrographic History for the Old Hydrographer's Column 'Hydro INTERNATIONAL' Volumes 1-6**

December 2003, page 94

Schneier, Bruce

**Secrets & Lies: Digital Security in a Networked World**

June 2001, page 103

Scott, Desmond

**The History of GEBCO, 1903-2003**

August 2003, page 93

Seeber, Günther

**Satellite Geodesy: Foundations, Methods and Applications, Second Edition**

December 2003, page 92

Sobel, Dava

**Galileo's Daughter**

December 2001, page 101

## Obituary

---

**Dr A. Raymond Boyle**

December 2001, page 104

**Commodore Folke Haalbjørner**

December 2000, page 80

**Commander Mark Hudson, RAN (ret.) 1955-2003**

April 2003, page 94

**Lt Cdr Alan Ingham RN (ret.), ARICS 1932-2002**

August 2002, page 118

**Rear-Admiral RNLN (ret.) Wijnand Langeraar**

April 2002, page 115

## Various

---

**Ritchie, Steve**

A Brief History of 19th Century Deep Sea Sounding

July 2000, page 6

**Rectification**

Reference - The Baudin Expedition to Australia

August 2002, page 120

**Letter to the Editor of John Daly**

April 2003, page 91

**Corrigenda**

Origins of a Lasting Bathymetric Endeavour

December 2003, page 96