

Published and printed by the
INTERNATIONAL HYDROGRAPHIC BUREAU
MONACO
March 1995



TABLE OF CONTENTS

- The Hydrographic and Wrecksearch Vessel "DENEB" as an Example for a Modern Survey Vessel (U. LAUBE)	7
• Electronic Reference Chart and Performance Standard for Electronic Reference Chart System (M. OKADA, K. SHOJI and Y. IJIMA)	19
- On the Identification of Spikes in Soundings (J. EEG)	33
- Progress in Producing Bathymetric Charts at a Global and Regional Level (C. ANDREASEN)	43
- Rapid Tidal Analyses, from a 3 3/4 Julian Years Span up to a Nodal Cycle Span, with a PC (A.S. FRANCO)	59
- Hydrographic Surveying and Nautical Charting: A Coordinated Effort of the International Hydrographic Organization (IHO) (G. ANGRISANO)	69
- Transas Electronic Charts (E. KOMRAKOV)	79
• Using DGPS to Measure the Heave Motion of Hydrographic Survey Vessels (P. KIELLAND and J. HAGGLUND)	83
- The Case for Using Cost Benefit Analysis to Evaluate the Supply of Public Goods in the Maritime Industry (M. JOHN) ..	101
- A Review of the ACID Synthetic Aperture Sonar and Other Sidescan Sonar Systems (V.S. RIYAIT, M.A. LAWLOR, A.E. ADAMS, O.R. HINTON and B.S. SHARIF)	115
• Smart Charts, Smart Bridge: Observations of the Shipboard Piloting Expert System (M. GRABOWSKI and S. SANBORN)	125
- Sea Trials of a Prototype of a Deep-sea Tide Gauge (P.Y. DUPUY)	141
- Fifty years ago	153