

GEOLOGICAL SOCIETY SPECIAL PUBLICATION NO. 276

Economic and Palaeoceanographic Significance of Contourite Deposits

EDITED BY

A. R. VIANA
Petrobras, Brazil

and

M. REBESCO
Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Italy

2007

Published by
The Geological Society
London

TECHNISCHE
INFORMATIONSBIBLIOTHEK
UNIVERSITÄTSBIBLIOTHEK
HANNOVER

Contents

Preface	vii
VIANA, A. R., ALMEIDA, W., JR, NUNES, M. C. V. & BULHÕES, E. M. The economic importance of contourites	1
AKHMETZHANOV, A., KENYON, N. H., HABGOOD, E., VAN DER MOLLEN, A. S., NIELSEN, T., IVANOV, M. & SHASHKIN, P. North Atlantic contourite sand channels	25
LLAVE, E., HERNÁNDEZ-MOLINA, F. J., SOMOZA, L., STOW, D. A. V. & DÍAZ DEL RÍO, V. Quaternary evolution of the contourite depositional system in the Gulf of Cadiz	49
MORAES, M. A. S., MACIEL, W. B., BRAGA, M. S. S. & VIANA, A. R. Bottom-current reworked Palaeocene–Eocene deep-water reservoirs of the Campos Basin, Brazil	81
REBESCO, M., CAMERLENGHI, A., VOLPI, V., NEAGU, C., ACCETTELLA, D., LINDBERG, B., COVA, A., ZGUR, F. & THE MAGICO PARTY. Interaction of processes and importance of contourites: insights from the detailed morphology of sediment Drift 7, Antarctica	95
LUCCHI, R. G. & REBESCO, M. Glacial contourites on the Antarctic Peninsula margin: insight for palaeoenvironmental and palaeoclimatic conditions	111
CARTER, R. M. The role of intermediate-depth currents in continental shelf–slope accretion: Canterbury Drifts, SW Pacific Ocean	129
ROBINSON, R. S., MURILLO DE NAVA, J. M. & GORSLINE, D. S. Slope currents and contourites in an eastern boundary current regime: California Continental Borderland	155
DUARTE, C. S. L. & VIANA, A. R. Santos Drift System: stratigraphic organization and implications for late Cenozoic palaeocirculation in the Santos Basin, SW Atlantic Ocean	171
VERDICCHIO, G., TRINCARDI, F. & ASIOLI, A. Mediterranean bottom-current deposits: an example from the Southwestern Adriatic Margin	199
VAN ROOIJ, D., BLAMART, D., KOZACHENKO, M. & HENRIET, J.-P. Small mounded contourite drifts associated with deep-water coral banks, Porcupine Seabight, NE Atlantic Ocean	225
HUNTER, S. E., WILKINSON, D., STANFORD, J., STOW, D. A. V., BACON, S., AKHMETZHANOV, A. M. & KENYON, N. H. The Eirik Drift: a long-term barometer of North Atlantic deepwater flux south of Cape Farewell, Greenland	245
ESMERODE, E. V., LYKKE-ANDERSEN, H. & SURLYK, F. Ridge and valley systems in the Upper Cretaceous chalk of the Danish Basin: contourites in an epeiric sea	265
GEORGIEV, G. & BOTOCHAROV, N. Are there Middle Jurassic contourites in the Tarnovo depression (Southern Moesian platform margin)?	283
HÜNEKE, H. Pelagic carbonate ooze reworked by bottom currents during Devonian approach of the continents Gondwana and Laurussia	299
LIMA, J. A. M., MOLLER, O. O., JR, VIANA, A. R. & PIOVESAN, R. Hydrodynamic modelling of bottom currents and sediment transport in the Canyon São Tomé (Brazil)	329
Index	343