Contents

Preface vii

LISP-UK studies
BLACK, K. S. & PATERSON, D. M. LISP-UK Littoral Investigation of Sediment Properties: an introduction 1
DYER, K. R. The typology of intertidal mudflats 11
AMOS, C. L., BRYLINSKY, M., SUTHERLAND, T. F., O’BRIEN, D., LEE, S. & CRAMP, A. The stability of a mudflat in the Humber estuary, South Yorkshire, UK 25
CHRISTIE, M. C. & DYER, K. R. Measurements of the turbid tidal edge over the Skeffling mudflats 45
LAW, D. J. & BALE, A. J. In situ characterization of suspended particles using focused-beam, laser reflectance particle sizing 57
BROWN, S. L. Sedimentation on a Humber saltmarsh 69
WIDDOWS, J., BRINSLEY, M. & ELLIOTT, M. Use of in situ flume to quantify particle flux (biodeposition rates and sediment erosion) for an intertidal mudflat in relation to changes in current velocity and benthic macrofauna 85
WILTSHEIRE, K. H., TOLHURST, T., PATERSON, D. M., DAVIDSON, I. & GUST, G. Pigment fingerprints as markers of erosion and changes in cohesive sediment surface properties in simulated and natural erosion events 99
DAVEY, J. T. & PARTRIDGE, V. A. The macrofaunal communities of the Skeffling muds (Humber estuary), with special reference to bioturbation 115
UNDERWOOD, G. J. C. & SMITH, D. J. In situ measurements of exopolymer production by intertidal epipelagic diatom-dominated biofilms in the Humber estuary 125
RUDDY, G., TURLEY, C. M. & JONES, T. E. R. Ecological interaction and sediment transport on an intertidal mudflat I. Evidence for a biologically mediated sediment–water interface 135
RUDDY, G., TURLEY, C. M. & JONES, T. E. R. Ecological interaction and sediment transport on an intertidal mudflat II. An experimental dynamic model of the sediment–water interface 149
WOOD, R. G., BLACK, K. S. & JAGO, C. F. Measurements and preliminary modelling of current velocity over an intertidal mudflat, Humber estuary, UK 167

Generic studies
RODRIGUEZ, H. N. & MEHTA, A. J. Considerations on wave-induced fluid mud streaming at open coasts 177
VAN DER LEE, W. T. B. The impact of fluid shear and the suspended sediment concentration on the mud floc size variation in the Dollard estuary, The Netherlands 187
MIKKELSEN, O. & PEJRUP, M. Comparison of flocculated and dispersed suspended sediment in the Dollard estuary 199
UNCLES, R. J., STEPHENS, J. A. & HARRIS, C. Seasonal variability of subtidal and intertidal sediment distributions in a muddy, macrotidal estuary: the Humber–Ouse, UK 211
RYAN, N. M. & COOPER, J. A. G. Spatial variability of tidal flats in response to wave exposure: examples from Strangford Lough, Co. Down, Northern Ireland 221
KORNMAN, B. A. & DE DECKERE, E. M. G. T. Temporal variation in sediment erodibility and suspended sediment dynamics in the Dollard estuary 231
CUNDY, A. B., COLLINS, P. E. F., TURNER, S. D., CROUDACE, I. W. & HORNE, D. 100 years of environmental change in a coastal wetland, Augusta Bay, southeast Sicily: evidence from geochemical and palaeoecological studies

WHITEHOUSE, R. J. S. & MITCHENER, H. J. Observations of the morphodynamic behaviour of an intertidal mudflat at different timescales

HULL, J. & NUNNY, R. Mapping intertidal sediment distributions using the RoxAnn system, Dornoch Firth, NE Scotland

RIETHMÜLLER, R., HAKVOORT, J. H. M., HEINEKE, M., HEYMANN, K., KÜHL, H. & WITTE, G. Relating erosion shear stress to tidal flat surface colour

SUTHERLAND, T. F., AMOS, C. L. & GRANT, J. The erosion threshold of biotic sediments: a comparison of methods

SHAikh, M. A., MEADOWS, A. & MEADOWS, P. S. Biological control of avalanching and slope stability in the intertidal zone

MEADOWS, P. S., MEADOWS, A., WEST, F. J. C., SHAND, P. S. & SHAikh, M. A. Mussels and mussel beds (Mytilus edulis) as stabilizers of sedimentary environments in the intertidal zone

MEADOWS, P. S., MURRAY, J. M. H., MEADOWS, A., MUIR WOOD, D. & WEST, F. J. C. Microscale biogeotechnical differences in intertidal sedimentary ecosystems

MEADOWS, A., MEADOWS, P. S. & MCLAUGHLIN, P. Spatial heterogeneity in an intertidal sedimentary environment and its macrobenthic community

BOORMAN, L. A., GARBUIT, A. & BARRATT, D. The role of vegetation in determining patterns of the accretion of salt marsh sediment

Index