

Contents

Metal Surveys

Heavy Metal Surveys in Brazilian Coastal Environments W.C.Pfeiffer, M.Fizman and L.C.Lacerda (With 1 Figure)	3
Heavy Metals in Water and Sediments of the Blanca Bay, Argentina A.E.Pucci (With 4 Figures)	9
A Preliminary Survey of Heavy Metal Concentrations in some Estuarine Organisms in the Littoral Zone of São Luis Island, Maranhão, Brazil A.A.Juras (With 1 Figure)	16
Study of Heavy Metal Pollution in the Tributary Rivers of the Jacare- pagua Lagoon, Rio de Janeiro State, Brazil, Through Sediment Analysis H.L.Azevedo, H.R.Monken and V.P.Melo (With 1 Figure)	21
Spatial Distribution of Heavy Metals in Seawater and Sediments from Coastal Areas of the Southeastern Buenos Aires Province, Argentina N. Villa (With 1 Figure)	30

Metals in Sediments

A Geochemical and Statistical Approach for Assessing Metal Pollution in Coastal Sediments J.D.Ryan and H.L.Windom (With 5 Figures)	47
Trace Metal Distribution in Sediments of the Patos Lagoon Estuary, Brazil P.R.N.Baisch, L.F.H.Niencheski and L.D.Lacerda (With 3 Figures)	59
Atmospheric Lead Deposition into Guarapina Lagoon, Rio de Janeiro State, Brazil S.R.Patchineelam, C.M.Leitão Filho, K.Kristotakis and H.J.Tobschall (With 5 Figures)	65

Metal Ion Concentration in Sediments from Hellshire, a Jamaican Coastal Environment A.M.Greenaway, R.J.Lancashire and A.I.Rankine (With 1 Figure)	77
Geochemical Distribution of Cd, Cu, Cr and Pb in Sediments of Estuarine Areas along the Southeastern Brazilian Coast L.D.Lacerda, C.M.M. Souza and M.H.D.Pestana (With 7 Figures)	86
Behaviour of Pollutant Metals in Aquatic Sediments J.E.L.Maddock and C.E.A.Lopes (With 3 Figures)	100
Metals in Biota	
<hr/>	
Fate of Metals in Biota and Biological Interactions in the Tropical Coastal Zone B.E.Brown (With 3 Figures)	109
Total Mercury Levels in Marine Organisms of the Bahia Blanca Estuarine Trophic Web J.E.Marcovecchio, V.J.Moreno and A.Pérez (With 2 Figures)	122
Uptake of Zn and Cd by Coastal Phytoplankton Species in Culture C.S.Karez, M.Roméo and M.Gnassia-Barelli (With 4 Figures)	130
Total Mercury, Cadmium and Lead Distribution in Tissues of the Southern Sea Lion (<i>Otaria flavescens</i>) in the Ecosystem of Mar del Plata, Argentina N.I.Peña, V.J.Moreno, J.E.Marcovecchio and A.Pérez (With 1 Figure)	140
Laboratory Experiments on ⁶⁰ Co Bioaccumulation by Tropical Sea-weeds A.C.S.Freitas, J.R.D. Guimarães, V.A.Gouvea and E.Penna-Franca (With 5 Figures)	147
Metal Transport and Cycles	
<hr/>	
Behaviour and Impact Assessment of Heavy Metals in Estuarine and Coastal Zones W.Salmons, H.Kerdijk, H. van Pagee, R.Klomp and A.Schreur (With 27 Figures)	157
Metal Cycles in Coastal Environments K.Kremling (With 8 Figures)	199
Mineralogical Control of Heavy Metal Behaviour in Coastal Environments: Copper in Ribeira Bay, Rio de Janeiro, Brazil E.D.Bidone and E.V.Silva Filho (With 2 Figures)	215

Technetium in Coastal Environments: Field Observations and Laboratory Experiments	
S.Bonotto, D. van der Ben, F.Capot, J.M.Bouquegneau and M.Cogneau (With 3 Figures)	222
Metal Monitoring	
<hr/>	
Metal Monitoring in Coastal Environments	
L.Håkanson (With 9 Figures)	239
Multispecies Metal Monitoring in Tropical Brazilian Estuaries	
U.Seeliger and M.Wallner (With 6 Figures)	258
Selected Bivalves for Monitoring of Heavy Metal Contamination in the Colombian Caribbean	
N.H.Campos (With 1 Figure)	270
<i>Eichhornia crassipes</i> as a Biological Monitor of Heavy Metals in Surface Waters	
J.E.Maddock, M.B.Santos and R.S.Marinho (With 3 Figures)	276
Strategies for Biological Monitoring: The European Experience	
H.L.Morris, Y.Samiullah and M.S.A.Burton	286
Conclusions and Outlook	
<hr/>	
Metals in Coastal Environments of Latin America: Recommendations for a Critical Situation	
U.Seeliger and L.D.Lacerda	295