
Appendix

A.1 LOICZ Reports and Studies and Key Publications

A.1.1 LOICZ Reports and Studies Series (published as LOICZ Reports and Studies, LOICZ International Project Office, Texel, The Netherlands)

Coastal Seas: A Net Source of Atmospheric Carbon Dioxide?

Kempe S. No. 1, 1995

River Discharge to the Sea: A Global River Index (GLORI):

Milliman JD, Rutkowski C, Meybeck M. No. 2, 1995

LOICZ Typology: Preliminary Versions for Discussion:

Anon. No. 3, 1995

Coastal Zone Resource Assessment Guidelines:

Turner RK, Adger WN. No. 4, 1996

LOICZ Biogeochemical Modelling Guidelines:

Gordon DC, Boudreau PR, Mann KH, Ong J-E, Silvert WL, Smith SV, Wattayakorn G, Wulff F, Yanagi T. No. 5, 1996

LOICZ Data and Information Systems Plan:

Boudreau PR, Geerders PJF, Pernetta JC. No. 6, 1996

First Report of the JGOFS/LOICZ Continental Margins Task Team:

Hall J, Smith SV (eds). No. 7, 1996

Groundwater Discharge in the Coastal Zone:

Buddemeier RW (ed). No. 8, 1997

International Workshop on Continental Shelf Fluxes: Carbon, Nitrogen and Phosphorus:

Hall J, Smith SV, Boudreau PR (eds). No. 9, 1997

Comparison of Carbon, Nitrogen and Phosphorus Fluxes in Mexican coastal Lagoons:

Smith SV, Ibarra-Obando S, Boudreau PR, Camacho-Ibar VF (eds). No. 10, 1997

Towards Integrated Modelling and Analysis in Coastal Zones: Principles and Practice:

Turner RK, Adger WN, Lorenzoni I. No. 11, 1998

Australasian Estuarine Systems: Carbon, Nitrogen and Phosphorus Fluxes:

Smith SV, Crossland CJ (eds). No. 12, 1999

Mexican and Central American Coastal Lagoon Systems: Carbon, Nitrogen and Phosphorus Fluxes (Regional Workshop II):

Smith SV, Marshall Crossland JI, Crossland CJ (eds). No. 13, 1999

Estuarine Systems of the South China Sea: Carbon, Nitrogen and Phosphorus Fluxes:

Dupra VC, Smith SV, Marshall Crossland JI, Crossland CJ (eds). No. 14, 2000

Estuarine Systems of the South American Region: Carbon, Nitrogen and Phosphorus Fluxes:

Dupra VC, Smith SV, Marshall Crossland JI, Crossland CJ (eds). No. 15, 2000

Estuarine Systems of the East Asia Region: Carbon, Nitrogen and Phosphorus Fluxes:

Dupra VC, Smith SV, Marshall Crossland JI, Crossland CJ (eds). No. 16, 2000

Biochemical and Human Dimensions of Coastal Functioning and Change in South East Asia:

Talaue-McManus L, Kremer HH, Marshall Crossland JI (eds). No. 17, 2001

Estuarine Systems of Sub-Saharan Africa: Carbon, Nitrogen and Phosphorus Fluxes:

Dupra VC, Smith SV, Marshall Crossland JI, Crossland CJ (eds). No. 18, 2001

Coastal and Estuarine Systems of the Mediterranean and Black Sea Regions: Carbon, Nitrogen and Phosphorus Fluxes:

Dupra VC, Smith SV, Marshall Crossland JI, Crossland CJ (eds). No. 19, 2001

Estuarine Systems of Africa (Regional Workshop II): Carbon, Nitrogen and Phosphorus Fluxes:

Dupra VC, Smith SV, David LT, Waldron H, Marshall Crossland JI, Crossland CJ (eds). No. 20, 2002

South American Basins: LOICZ Global Change Assessment and Synthesis of River Catchment-Coastal Sea Interaction and Human Dimensions:

De Lacerda LD, Kremer HH, Kjerfve B, Salomons W, Marshall Crossland JI, Crossland CJ (eds). No. 21, 2002

LOICZ/UNEP Regional Synthesis Workshops: Australasia-Asia, the Americas, Africa-Europe. Summary report and compendium:

Buddemeier RW, Crossland CJ, Maxwell BA, Smith SV, Swaney DF, Bartley JD, Misgna G, Smith C, Dupra VC, Marshall Crossland JI (eds). No. 22, 2002

Estuarine Systems of the Latin American Region and of the Arctic Region: Carbon, Nitrogen and Phosphorus Fluxes:

Camacho-Ibar VF, Dupra VC, Wulff F, Smith SV, Marshall Crossland JI, Crossland CJ (eds). No. 23, 2002

The Role of the Coastal Zone in the Disturbed and Undisturbed Nutrient and Carbon Cycles:

Buddemeier, RW, Smith SV, Swaney DP, Crossland CJ (eds). No. 24, 2002

African Basins: LOICZ Global Change Assessment and Synthesis of River Catchment-Coastal Sea Interaction and Human Dimensions:

Arthurton RS, Kremer HH, Odada E, Salomons W, Marshall Crossland JI (eds). No. 25, 2002

East Asia Basins: LOICZ Global Change Assessment and Synthesis of River Catchment-Coastal Sea Interaction and Human Dimensions:

Hong GH, Kremer HH, Pacyna J, Chen C-TA, Behrendt H, Marshall Crossland JI (eds). No. 26, 2002

Caribbean Basins: LOICZ Global Change Assessment and Synthesis of River Catchment-Coastal Sea Interaction and Human Dimensions and a Desktop Study of Oceania Basins:

Kjerfve B, Wiebe WJ, Kremer HH, Salomons W, Marshall Crossland JI (Caribbean); Morcom N, Harvey N, Marshall Crossland JI (Oceania) (eds). No. 27, 2002

A.1.2 Key Publications from LOICZ

Coral Reefs and Environmental Change – Adaptation, Acclimation or Extinction:

Buddemeier RW, Lasker HR (eds). *American Zoologist* 39(1): 1–183, 1999

Perspectives on Integrated Coastal Management:

Salomons W, Turner RK, de Lacerda LD, Ramachandran S (eds). Springer, Berlin, 1999

Scientific Report on Socio-economic Aspects of Fluxes into the Marine Environment:

Pacyna JM, Kremer HH, Pirrone N, Barthel K-G (eds). EU Monograph Series EUR 19089, EU Commission, Brussels, 2000

Land-Ocean Interactions in the Coastal Zone:

Crossland CJ, van Raaphorst W, Kremer HH (eds). *Journal of Sea Research Special Issue* 46(2):85–185, 2001

Nearshore and Coastal Oceanography. ELOISE – European Land Ocean Interaction:

Huntley DA, Oltman-Shay J, Murray N (eds). *Continental Shelf Research* 21(18–19):1919–2183, 2001

Regimes of Regional and Global Coastal Change:

Kremer HH (ed). *Regional Environmental Change* 3(1–3):1–117, 2002

Supply and Flux of Sediment along Hydrological Pathways: Anthropogenic Influences at the Global Scale:

Syvitski JPM (ed). *Global and Planetary Change* 39(1–2):1–199, 2003

Submarine Groundwater Discharge:

Burnett WC, Chanton JP, Kontar E (eds). *Biogeochemistry* 66(1–2): 1–202, 2003

River Catchment-Coastal Sea Interactions and Human Dimensions:

Kremer HH (ed). *Regional Environmental Change* 4(1):1–76, 2004

European Catchments: Catchment Changes and their Impact on the Coast:

Salomons W. Institute for Environmental Studies, Vrije Universiteit, Amsterdam, The Netherlands, 2004

Managing European Coasts: Past, Present and Future:

Vermaat JE, Ledoux LC, Salomons W, Turner RK. Springer, Berlin, Heidelberg, New York, 2005

A.2 Acronyms and Abbreviations

| | |
|------|---|
| APN | Asia-Pacific Network for Climate Change |
| ARI | average recurrence interval |
| BAU | business-as-usual |
| CAP | Common Agricultural Policy (EU) |
| CMTT | Continental Margins Task Team (a joint project between LOICZ and JGOFS) |
| COOP | Coastal Ocean Observing Programme (the coastal module of GOOS) |
| CPR | continuous plankton recorder |

| | | | |
|-------------|---|-----------|---|
| CPUE | catch per unit effort | LME | large marine ecosystem |
| CVI | coastal vulnerability index | LOICZ | Land-Ocean Interactions in the Coastal Zone core project of IGBP |
| denit | denitrification | LOICZ IPO | LOICZ International Project Office |
| DIC | dissolved inorganic carbon | LOIS | Land-Ocean Interaction Study, United Kingdom |
| DIN | dissolved inorganic nitrogen | NAO | North Atlantic Oscillation |
| DINAS-COAST | Dynamic and Interactive Assessment of National, Regional and Global Vulnerability of Coastal Zones to Climate Change and Sea-level Rise | NEM | net ecosystem metabolism |
| DIP | dissolved inorganic phosphorus | nfix | nitrogen fixation |
| DIVERSITAS | an international programme on biodiversity science | NIWA | National Institute of Water & Atmospheric Research, New Zealand |
| DMS | dimethyl sulphoxide | NOAA | National Ocean and Atmosphere Administration, United States of America |
| DOC | dissolved organic carbon | NSF | National Science Foundation, United States of America |
| DON | dissolved organic nitrogen | NWO | Netherlands Organisation for Scientific Research |
| DOP | dissolved organic phosphorus | OBIS | Ocean Biogeographic Information System |
| DPSIR | Driver-Pressure-State-Impact-Response | OcW | Ministry of Education, Culture & Science, The Netherlands |
| DV | dredged volume | OECD | Organisation for Economic Cooperation and Development |
| EEA | European Environment Agency | OSPAR | Convention for the Protection of the Marine Environment of the North-East Atlantic |
| ENSO | El Nino-Southern Oscillation | <i>p</i> | primary production |
| ERA | eastern Russian coast | PAGES | Past Global Changes core project of IGBP |
| EU | European Union | PAH | poly-aromatic hydrocarbon |
| EU-BIOGEST | EU-ELOISE project: Biogases Transfers in Estuaries | PCB | poly-chlorinated benzene |
| EU-ELOISE | European Union – European Land-Ocean Interaction Studies | PET | potential evapo-transpiration |
| FAO | Food and Agriculture Organisation | PNG | Papua New Guinea |
| GEF | Global Environment Facility | psu | practical salinity unit |
| GESAMP | Group of Experts on the Scientific Prospects of Marine Environmental Protection | RI | retention index |
| GHG | greenhouse gas | RIKZ | Water Management, Ministry for Transport and Public Works and Water Management, The Netherlands |
| GIA | glacio-isostatic adjustment | RMA | reduced major axis |
| GIS | geographical information system | RO | runoff |
| GIWA | Global International Water Assessment | SARCS | Southeast Asia Regional Committee for START |
| GM | geometric mean | SCOR | Scientific Committee on Oceanic Research |
| GNP | gross national product | SGD | submarine groundwater discharge |
| GOOS | Global Ocean Observing System | SGR | submarine groundwater recharge |
| Gt | gigatonne | SPE | submarine porewater exchange |
| HAB | harmful algal bloom | SPREP | South Pacific Regional Environmental Programme |
| HELCOM | Helsinki Commission | SRES | Special Report on Emission Scenarios |
| IAI | Inter-Americas Institute | SSC | Scientific Steering Committee |
| ICSU | International Council for Science | SST | sea surface temperature |
| IGBP | International Geosphere-Biosphere Programme | START | Global Change System for Analysis, Research and Training |
| IHDP | International Human Dimensions Programme on Global Environmental Change | SURVAS | Synthesis and Upscaling of Sea-level Rise Vulnerability Assessment Studies |
| ICZM | integrated coastal zone management | TIMS | thermal ionisation mass spectrometry |
| IOC | Intergovernmental Oceanographic Commission of UNESCO | UNCED | United Nations Conferences on Environment and Development |
| IOI | International Ocean Institute | UNCLOS | United Nations Convention on the Law of the Sea |
| IPCC | Intergovernmental Panel on Climate Change | UNEP | United Nations Environment Programme |
| JGOFS | Joint Global Ocean Flux Study; a core project of IGBP | | |
| KNAW | Royal Netherlands Academy of Arts and Sciences | | |
| Royal NIOZ | Royal Netherlands Institute for Sea Research | | |

| | | | |
|--------|--|-------|---|
| UNESCO | United Nations Educational, Scientific and Cultural Organisation | WOTRO | Netherlands Foundation for the Advancement of Tropical Research |
| WCRP | World Climate Research Programme | WRA | western Russian coast |
| WFD | Water Framework Directive (WFD) | WVS | world vector shoreline |

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