Coasts and Coastal People Scenarios of Change and Responses



LOICZ II Inaugural Open Science Meeting Egmond aan Zee, Netherlands 27-29 June 2005

Sponsored by:































The LOICZ Inaugural Open Science Meeting 2005 ushed LOICZ's second decade as a global change program. Building on its strengths in examining material fluxes from catchments to coast, the LOICZ project will now embark on a broadly expanded research framework focusing on the interactions between humans, ecosystems and material fluxes as drivers of coastal change. Over the three days of the meeting, a community of some 270 coastal scientists and managers representing 52 countries engaged in an exciting dialogue about these interactions, their trajectories of change, including ways to approach sustainable coastal scenarios.

Two plenary addresses each day provided an overview of the challenges facing the global environmental community. Plenary addresses were followed by oral presentation sessions where a keynote talk and paper presentations provided insight of future research needs and work in progress in regard to the research themes covered by the LOICZ Science plan. The meeting also importantly included afternoon workshops to develop research proposals and action plans targeting knowledge products.

The meeting provided opportunity for researchers and practitioners to forge new linkages or renewed ties with colleagues to pursue LOICZ related activities.

Beyond the Open Science Meeting, we hope that participants will have been encouraged to become, or remain, active in the LOICZ network. The success of LOICZ as a platform for global change research greatly depends on the individual and collective strength of its community members to see the program through to fruition.

We are grateful to all our sponsors.

Summary Programme and Schedule

The LOICZ Inaugural Open Science Meeting (IOSM) had 4 components:

- Plenary Presentations with invited speakers will exemplify the broad domain
 of research themes that are encompassed within the LOICZ Science Plan and
 Implementation Strategy (SPIS) and address some of the science challenges
 that face the next 10 years of LOICZ activity.
- 2. Contributed Sessions will provide opportunity for some 140 speakers to present the principal outcomes of recent research findings. Morning sessions linked to the research themes identified in the LOICZ SPIS will be given context by an invited *keynote speaker* who will kick-off each session as well as act as a co-convenor. In the afternoon continuation sessions will present papers that cross the theme structure of the LOICZ SPIS.
- 3. Workshops provide an opportunity for groups to discuss specific areas of research and interest to LOICZ, and identify the gaps in knowledge, the future challenges and identify the contribution that future activity directions that should be taken up by LOICZ. Each workshop will prepare a short report of their deliberations to report back to the whole meeting in Plenary to close each day.
- 4. *Poster presentations* are an important feature in the LOICZ IOSM and complement the oral presentations. An ice breaker session on Monday 27 June in the *Foyer* will provide all participants opportunity to view the posters. The poster will be available to view throughout the meeting.

Meeting Overview

The tables below provide an overview of each day of the meeting:

the coastal zone Session 2: Land-Ocean interactions on vulnerable coastal cosystems (lagoons) Session 3: Sediment flux to the coastal zone: climate change, anthropogenic influences and future trends Session 4: Biogeochemical budgets Session 5: Human coastal communities Session 5: Human coastal communities Session 6: Science, society and management of coastal zones Session 6: Science, society and management of coastal zones Session 19: Climate change and cological resources Workshop 1: Risk and vulnerability of Coastal Systems due to Climate Change Workshop 2: Integrated Coastal Zone Morkshop 5: Integrated assesments and budgets Workshop 3: Coastal Systems due to Climate Change and Ecological models Workshop 4: Raising awareness and ownership of coastal and wareness and ownership of coastal charge and management initiatives s Workshop 4: Raising awareness and ownership of coastal charge and management initiatives s Session 8: Ecosystems, land and sea use (Deltas) Session 9: Coastal waters ecohydrology: from the mountains to the coast all waters ecohydrology: from the mountains to the coast all waters ecohydrology: from the mountains to the coast all waters ecohydrology: from the mountains to the coast all waters ecohydrology: from the mountains to the coast all waters ecohydrology: from the mountains to the coast all waters ecohydrology: from the mountains to the coast all the coastal charge and the Earth System (Joint session with IMBER/SOLAS) Session 16: Shelf processes and the Earth System (Joint session 17: Coastal ecosystem with IMBER/SOLAS) Session 16: Shelf processes and the Earth System (Joint session with IMBER/SOLAS) Session 16: Shelf processes and the Earth System (Joint session vith IMBER/SOLAS) Session 18: Coastal ecosystem scale of bridging for the coastal change and datasets Session 19: Climate change and economic modelling and froid processes and the Earth System (Joint Session 18: Coastal type overnance Session 19: Climate change and economic modelling and bridging the natur			
Plenary 1: Human Dimensions and Globat Environmental Change	Monday 27 June	Tuesday 28 June	Wednesday 29 June
cocans and coasts: A framework and an emerging plan Plenary 2: Coastal ecology in a changing world: can we provide the answers we provided the answers we provided the answers we provided the answers we provided the answers we promised? Parallel Sessions Session 1: Climate change and the coastal zone Session 1: Climate change and the coastal zone Session 3: Sediment flux to the coastal ecosystems (lagoons) Session 3: Sediment flux to the coastal zone climate change, anthropogenic influences and future trends Session 4: Biogeochemical budgets Session 5: Human coastal communities Session 5: Human coastal communities Session 6: Science, society and management of coastal zones Session 19: Climate change and cological resources Workshop 1: Risk and vulnerability of Coastal Systems and beauty and robe workshop 5: Raising awareness and undelling material deliveries from catchinent to coast workshop 1: Raising awareness and modelling management tool for locastal and ownership of coastal Workshop 4: Raising awareness and ownership of coastal Morkshop 6: Marrier Protected Areas — a management tool for Integration, and Participation: Strategies for LOICZ II			
changing world: can we provide the answers we promised? Morning coffee/tea Parallel Sessions Session 1: Climate change and the coastal zone Session 2: Land-Ocean interactions on vulnerable coastal ecosystems (lagoons) Session 3: Sediment flux to the coastal zone: Session 4: Biogeochemical budgets Session 5: Human coastal communities Session 6: Sesion 10: Application of Remote sensing for Coastal Area amangement: Socio-economic modelling and future sensing for Coastal Lange and management: Socio-economic modelling and future sensing for Coastal Zone workshop 2: Integrated Coastal zones Session 19: Climate change and cological resources Workshop 2: Integrated Coastal Zone Session 2: Rieghights of Dutch Climate change and vulnerability of Coastal Systems due to Climate Change Workshop 3: Integrated Coastal Zone Systems sciences Workshop 3: Integrated Coastal Zone Systems sciences Workshop 3: Coastal Systems due to Climate Change Workshop 4: Raising awareness and models deliveries from catchment to coast Workshop 4: Raising awareness and sund ownership of coastal Areas – a management tool for ICZM? Workshop 4: Raising awareness and ownership of coastal Areas – a management tool for ICZM?	and Global Environmental	oceans and coasts: A framework	connection between healthy waterways and healthy
Parallel Sessions Session 1: Climate change and the coastal zone Session 7: Geohazards, ground water and risk Session 2: Land-Ocean interactions on vulnerable coastal ecosystems (lagoons) Session 8: Ecosystems, land and sea use (Deltas)	changing world: can we provide	eutrophication and suspended matter dynamics of a shallow	knowledge for coastal
Session 1: Climate change and the coastal zone		Morning coffee/tea	
the coastal zone water and risk Session 2: Land-Ocean interactions on vulnerable coastal ecosystems (lagoons) Session 3: Sediment flux to the coastal zone: climate change, anthropogenic influences and future trends Session 4: Biogeochemical budgets Session 5: Human coastal communities Session 5: Human coastal communities Session 6: Science, society and management of coastal zones Session 6: Science, society and management of coastal zones Session 19: Climate change and ecological resources Workshop 1: Risk and vulnerability of Coastal Systems due to Climate Change Workshop 2: Integrated Coastal Zone Morkshop 5: Integrating socioeconomic variables in mapping and modelling material deliveries from catchment to coastal change and modelling material models Workshop 4: Raising awareness and ownership of coastal management initiatives s Session 8: Ecosystems, land and sea use (Deltas) Session 19: Coastal waters ecohydrology: from the mountains to the coast waters ecohydrology: from the mountains to the coastal zone: trends and the Earth System (Joint Waters of Session		Parallel Sessions	
Session 3: Sediment flux to the coastal zone: climate change, anthropogenic influences and future trends Session 4: Biogeochemical budgets Session 10: Application of Remote sensing for Coastal Area management of coastal communities Session 11: Integrated assessment of coastal change and management of coastal zones Session 12: Highlights of Dutch coastal zones Session 18: Coastal typologies and datasets			Session 13: Coastal Assessments
coastal zone: climate change, anthropogenic influences and future trends Session 4: Biogeochemical budgets Session 5: Human coastal communities Session 5: Human coastal communities Session 6: Science, society and management of coastal change and management of coastal zones Session 6: Science, society and management of coastal zones Session 19: Climate change and ecological resources Workshop 1: Risk and vulnerability of Coastal Systems due to Climate Change Workshop 2: Integrated Coastal Zone Workshop 3: Coastal Systems due to Climate Change Workshop 4: Raising awareness and ownership of coastal models Workshop 4: Raising awareness and ownership of coastal management initiatives s Workshop 8: Marine Protected Areas – a management tool for ICZM? Workshop 1: Implementation, Integration, and Participation: Strategies for LOICZ II	interactions on vulnerable		Session 14: Urbanisation
Session 5: Human coastal communities Session 11: Integrated assessment of coastal change and management: Socioeconomic modelling and future scenarios Session 16: Science, society and management of coastal zones Session 12: Highlights of Dutch Coastal Zone Research Session 18: Coastal typologies and datasets	coastal zone: climate change, anthropogenic influences and	ecohydrology: from the	coastal zone: trends and
assessment of coastal change and management: Socioeconomic modelling and future scenarios Session 6: Science, society and management of coastal zones Lunch Workshops & Continuation Sessions Session 19: Climate change and ecological resources Workshop 1: Risk and vulnerability of Coastal Systems due to Climate Change Workshop 2: Integrated Coastal Zone Management and LOICZ – Current status Workshop 3: Coastal Biogeochemical and Ecological models Workshop 4: Raising awareness and ownership of coastal moders and second of the coastal cone workshop 4: Raising awareness and ownership of coastal management initiatives s assessment of coastal change governance second: Socioeconomic management initiatives s Session 12: Highlights of Dutch Coastal Session 18: Coastal typologies and datasets Session 19: Climate change and ecological session 20: Nutrients, sediments and budgets Workshop 5: Issues in scale of bridging the natural and social sciences Workshop 6: Conceptual synthesis of global coastal environments Workshop 3: Coastal Workshop 6: Conceptual synthesis of global coastal environments Workshop 3: Coastal Biogeochemical and Ecological modelling material deliveries from catchment to coast: Collaboration between GWSP and LOICZ Workshop 4: Raising awareness and ownership of coastal management initiatives s Workshop 8: Marine Protected Areas – a management tool for Integration, and Participation: Strategies for LOICZ II	=	Remote sensing for Coastal	the Earth System (Joint session
Tunch Workshops & Continuation Sessions Session 19: Climate change and ecological resources Workshop 1: Risk and vulnerability of Coastal Systems due to Climate Change Workshop 2: Integrated Coastal Zone Management and LOICZ – Current status Workshop 3: Coastal Biogeochemical and Ecological models Workshop 4: Raising awareness and ownership of coastal management initiatives s Coastal Zone Research Lunch Workshops & Continuation Sessions Session 21: Managing the coastal session 21: Managing the coastal coastal of bridging the natural and social sciences Workshop 5: Issues in scale of bridging the natural and social sciences Workshop 6: Conceptual synthesis of global coastal environments Workshop 7: Integrating Socioeconomic variables in mapping and modelling material deliveries from catchment to coast Workshop 4: Raising awareness and ownership of coastal management initiatives s Workshop 8: Marine Protected Areas – a management tool for Integration, and Participation: Strategies for LOICZ II		assessment of coastal change and management: Socio- economic modelling and future	
Workshops & Continuation Sessions Session 19: Climate change and ecological resources Workshop 1: Risk and vulnerability of Coastal Systems due to Climate Change Workshop 2: Integrated Coastal Zone Management and LOICZ – Current status Workshop 3: Coastal Biogeochemical and Ecological models Workshop 4: Raising awareness and ownership of coastal management initiatives s Workshop 8: Marine Protected Areas – a management tool for ICZM? Session 21: Managing the coastal Session 21: Managing the coastal tooletone coastal voluments Workshop 9: Coastal Assessments Workshop 6: Conceptual synthesis of global coastal environments Workshop 7: Integrating Socioeconomic variables in mapping and modelling material deliveries from catchment to coast Workshop 4: Raising awareness and ownership of coastal management initiatives s Workshop 8: Marine Protected Areas – a management tool for Integration, and Participation: Strategies for LOICZ II			
Session 19: Climate change and ecological resources Workshop 1: Risk and vulnerability of Coastal Systems due to Climate Change Workshop 2: Integrated Coastal Zone Management and LOICZ – Current status Workshop 3: Coastal Biogeochemical and Ecological models Workshop 4: Raising awareness and ownership of coastal management initiatives s Session 20: Nutrients, sediments and budgets Workshop 5: Issues in scale of bridging the natural and social sciences Workshop 5: Issues in scale of bridging the natural and social sciences Workshop 6: Conceptual synthesis of global coastal environments Workshop 7: Integrating Socioeconomic variables in mapping and modelling material deliveries from catchment to coast Workshop 4: Raising awareness and ownership of coastal management initiatives s Workshop 8: Marine Protected Areas – a management tool for Integration, and Participation: Strategies for LOICZ II		Lunch	
workshop 1: Risk and vulnerability of Coastal Systems due to Climate Change Workshop 5: Issues in scale of bridging the natural and social sciences Workshop 9: Coastal Assessments Workshop 2: Integrated Coastal Zone Management and LOICZ – Current status Workshop 6: Conceptual synthesis of global coastal environments Workshop 10: Gauging Progress In Coastal Governance Workshop 3: Coastal Biogeochemical and Ecological models Workshop 7: Integrating Socioeconomic variables in mapping and modelling material deliveries from catchment to coast Workshop 11: From river to coast: Collaboration between GWSP and LOICZ Workshop 4: Raising awareness and ownership of coastal management initiatives s Workshop 8: Marine Protected Areas – a management tool for Integration, and Participation: Strategies for LOICZ II		Workshops & Continuation Sessions	
vulnerability of Coastal Systems due to Climate Change bridging the natural and social sciences Assessments Workshop 2: Integrated Coastal Zone Management and LOICZ – Current status Workshop 6: Conceptual synthesis of global coastal environments Workshop 10: Gauging Progress In Coastal Governance Workshop 3: Coastal Biogeochemical and Ecological models Workshop 7: Integrating Socioeconomic variables in mapping and modelling material deliveries from catchment to coast Workshop 11: From river to coast: Collaboration between GWSP and LOICZ Workshop 4: Raising awareness and ownership of coastal management initiatives s Workshop 8: Marine Protected Areas – a management tool for Integration, and Participation: Strategies for LOICZ II			
Zone Management and LOICZ - Current status Workshop 3: Coastal Biogeochemical and Ecological models Workshop 4: Raising awareness and ownership of coastal management initiatives s Synthesis of global coastal environments Workshop 7: Integrating Socio- economic variables in mapping and modelling material deliveries from catchment to coast Workshop 4: Raising awareness and ownership of coastal management initiatives s In Coastal Governance Workshop 11: From river to coast: Collaboration between GWSP and LOICZ Workshop 12: Implementation, Integration, and Participation: Strategies for LOICZ II	vulnerability of Coastal Systems	bridging the natural and social	_
Biogeochemical and Ecological models Biogeochemical and Ecological models Biogeochemical and Ecological models Biogeochemical and Ecological economic variables in mapping and modelling material deliveries from catchment to coast Workshop 4: Raising awareness and ownership of coastal management initiatives s Workshop 8: Marine Protected Areas – a management tool for Integration, and Participation: Strategies for LOICZ II	Zone Management and LOICZ	synthesis of global coastal	Workshop 10: Gauging Progress In Coastal Governance
and ownership of coastal management initiatives s Areas – a management tool for Integration, and Participation: Strategies for LOICZ II	Biogeochemical and Ecological	economic variables in mapping and modelling material deliveries from catchment to	coast: Collaboration between
POSTED SESSION & LOPDE AVED MEETING PROPER	and ownership of coastal	Areas – a management tool for	Integration, and Participation:
FUSTER SESSION & ICEBREAKER WIEETING DINNER	POSTER SESSION & ICEBREAKER	MEETING DINNER	

Daily meeting schedule

The tables below provide the detailed schedule for each day. Descriptions of each Session and Workshop can be found starting on Page 16.

Monday 27 June

Day 1. Plenary presentations	
Name	Abstract title
Young, B (Australia) & Göbel, B (Germany)	Human dimensions and global environmental change.
Herman, P (Netherlands)	Coastal ecology in a changing world: can we provide the answers we promised?

Day 1, Session 1: Climate change and the coastal zone.	
Convenor: Felino	Lansigan Co-convenor: Richard Klein
Name	Abstract title
Klein, R (Germany)	Keynote: A New Assessment of Coastal Vulnerability to Climate Change
Boot, G (Netherlands)	Coastal erosion and sea level rise at the global scal; An assessment of impacts and adaptation
Dingerson, L (USA)	Predicting future shoreline condition based on land-use change and increased risk associated with climate change
Thomalla, F (Sweden)	Understanding human vulnerability to coastal hazards and adapting to uncertain futures
Rupp-Armstrong, S (UK)	The future of managed realignment in Northern Europe – a comparative study of southern North sea coastal areas

Day 1, Session 2: Land-ocean interactions on vulnerable coastal ecosystems (lagoons).	
Convenor: Alice	Newton Co-convenor: Nick Murray
Name	Abstract title
Murray, N (Italy)	Keynote: A European point of view. The Water Framework Directive: Integrating Coastal Systems and River Basins.
Mariscal-Romero, J (Mexico)	Environmental problematic in Bahia de navida lagoons: Reflectons to implementation of a CZIM plan
Razinkovas, A (Italy)	Estuarine continuum in a temperate lagoon: spatial and temporal patterns
Hung, JJ (Taiwan)	Biogeochemical Responses to the Removal of Marine Aquaulture Structures from the Eutropic Lagoon (Tapong Bay) in Taiwan
Franco, A (Portugal)	A model for sustainable management of penaeid shrimp fishery - application to Maputo Bay, Mozambique

Day 1, Session 3: Sedime future trends	nt flux to the coastal zone: climate change, anthropogenic influences and
Convenor: Juan	Restrepo Co-convenor: John Milliman
Name	Abstract title
Milliman, J (USA)	Keynote: Temporal change in global precipitation and river discharge. Are we seeing long-term change or simply natural oscillations?
Mil-Homens, M (Portugal)	A sequential method approach for sediment quality assessment
Sharma, K (Nepal)	Impacts of Human activities on regionwise budget and oceanward flux of sediment in South Asia
Knoppers, B (Brazil)	The Sao Francisco river basin and oastal zone, East Brazil: Physical and ecological alterations induced by dam construction

Salomons, W	Soil-Catchment-Coast Continuum: Legacy of the past
(Netherlands)	

Day 1, Session 4: Biogeochemical budgets	
Convenor: Denni	s Swaney Co-convenor: Gianmarco Giordani
Name	Abstract title
Giordani, G (Italy)	Keynote: LaguNet, the Italian lagoon observational network: Evaluation of fluxes and derived ecosystem functions in the transition zones along the Italian Coast
Solidoro, C (Italy)	Applicability of LOICZ derived indexes in complex ecosystem. A multibox analysis for the lagoon of Venice
Friedrich, J (Germany)	Towards nutrient budget scenarios for the north-western Black Sea shelf
Prego, R (Spain)	Land-ocean exchanges and budgeting in a river-estuary-ria-shelf system
Dürr, H (France)	Estimating natural silica fluxes to the coastal zone using a global segmentation
Morozova, O (Russia)	Nutrient budgets in the artic coastal systems

Day 1, Session 5: Human coastal communities	
Convenor: Bernh	ard Glaeser Co-convenor: Patricia Gallaugher
Name	Abstract title
Gallaugher, P (Canada)	Keynote: Why don't we learn?
Campos, M (Philippines)	Fish for the future: An assessment of fishery conservation policies in the Philippines
Sarwar, G (Sweden)	Coastal fisheries of Bangladesh: how to adapt with sea level rise
Woodrow, M (Canada)	Vulnerability and adaptation in coastal communities: a case study in adaptation on Change Islands, Newfoundland following closure of the cod fishery in 1992
Nguyen Thi, Tram (Vietnam)	Local communities within the Honmun Marine Protected Area must be relevant

Day 1, Session 6: Science, society and management of coastal zones: Educational aspects	
Convenor: Wilhe	Im Windhorst Co-convenor: Don Alcock
Name	Abstract title
Alcock, D (Australia)	Keynote: Seven habits of successful science communication programs
Ogodo, O (Kenya)	Media and environmental protection
Ballinger, R (UK)	Developing capacity building for local planners
Rigg, C (USA)	Common sense and common ground in marine and terrestrial resource management
Krain, E (Germany)	SPICE, an Indonesian-German research initiative within the frame of land and ocean interactions

Day 1, Session 19: Climate change and ecological resources		
Convenor: Ticky	Convenor: Ticky Forbes	
Name	Abstract title	
Labane, L (Tunesia)	First assessment of the Tunesian coastline vulnerability to sea level rise	
Khattabi, A (Morocco)	Fishing and aquaculture in the socioeconomic context of a coastal Mediterranean lagoon	
Rahman, A (Bangladesh)	Challenges to sustainable development of Bangladesh Coastal Zone: An interplay of local, national, regional and global anthropogenic interventions	
Del Toro, J (Mexico)	A regional approach for coastal sustainability, ICZM in the western central region of Mexico: building the coastal agenda	
McFadden, L (UK)	A new model of wetland loss and sea-level rise	

Shumilin, E (Mexico)	Evaluation of anthropogenic impact on coastal marine sediments of heavy metals transported by water streams affected by mining in North-Western Mexico: Semi-deseric Santa Rosalia, Baja California Sur and Tropical Marabasco River-the Barra de Navidad Lagoon, Colima
Krishnamoorty, R (India)	Anthropogenic influences on freshwater resources versus Land Use and Cover Change (LUCC) in Southeast India coastal river basins-study based multi-data remote sensing data analysis and GIS application
Yamamuro, M (Japan)	Changes in the use of ecosystem due to the loss of eelgrass bed in estuarine lagoon, Lake Nakaumi, Japan
Guenette, S (Canada)	Insights from ecosystem modelling: the decline of Stellar sea lion in the Gulf of Alaska

Day 1, Workshop 1: Risk and vulnerability of Coastal Systems due to Climate Change
Convenor: Felino Lansigan
Co-convenor: Frank Thomalla

Keynote: Hinkel, J (Germany) - Methodological issues in coastal vulnerability assessment

Day 1, Workshop 2: Integrated Coastal Zone Management and LOICZ – Current status

Convenor: Peter Burbridge Co-convenor: Ben Malayang III

Keynote: Harvey, N (Australia) - Global Change Implications for Asia-Pacific Coastal Management

Day 1, Workshop 3: Coastal Biogeochemical and Ecological models

Convenor: John Parslow

Co-convenor: Jack Middelburg

Day 1, Workshop 4: Raising awareness and ownership of coastal management initiatives

Convenor, Jeremy Hills

Co-convenor: Don Alcock

Keynote: Radford, T (UK) - TBA

Tuesday 28 June

Day 2. Plenary presentations	
Name	Abstract title
Harrison, P (Canada)	Managing Canada's oceans and coasts: A framework and an emerging plan
van Beusekom, J (Germany)	Interaction between eutrophication and suspended matter dynamics of a shallow coastal sea

Day 2, Session 7: Geohazards, ground water and risk. Convenor: Nalin Wikramanayake Co-convenor: Evgeny Kontar	
Name	Abstract title
Kontar, E (Russia)	Keynote: The Southeast Asia Tsunami Disaster Aftermath: Development of New Approaches to Coastal Zone Hazard Observation and Warning Systems
Rapaglia, J (USA)	Measurements of submarine groundwater discharge and associated contaminants into the Venice lagoon, Italy
Demetriades, N (South Africa)	The Mkomazi estuary: Human effects, freshwater and an oligotrophic coast in south-east Africa
Gomez-Gesteira, M (Spain)	Human induced bloom generated by Mino River intrusion in a Galician Ria Baixa (NW Iberian Peninsula)
Narayanan, K (India)	Climate change and vulnerability: evidence from Indian coastal waters
McLean, R (Australia)	Vulnerability of coastal systems: comparative analyses of three atoll island states: Tuvalu, Kiribati and the Maldives

Day 2, Session 8: Ecosystems, land and sea use (Deltas). Convenor: Yoshiki Saito Co-convenor: James Syvitski	
Name	Abstract title
Syvitski, J (USA)	Keynote: The Impact of Humans on the Flux of Terrestrial Sediment to the Coastal Ocean on a Global basis: Long-term Averages and Seasonal Variability
Anagnostou, C (Greece)	Management of deltaic systems-The need to trace new ways of thinking Case study: Deltaic systems of the Hellenic peninsula
Rabouille, C (France)	The fate of the Rhone river delivery to the coastal ocean: the need of benthic observatories within RiOMar
Radakovitch, O (France)	Heavy metal inputs from rivers and their deposits at the scale of a continental shelf: the Gulf of Lions
Cheong, S (USA/Korea)	The river basin and coast as single system

Day 2, Session 9: Coastal waters ecohydrology: from the mountains to the coast Convenor: Laura David Co-convenor: Eric Wolanski	
Name	Abstract title
Wolanski, E (Australia)	Keynote: Estuarine and Coastal Zone Ecohydrology
Stevens, V (South Africa)	The threat and cascade method of estuarine health assessment- a logical sequence from impact to biological degradation via system physics and chemistry
Loeser, N (Germany)	River-basin - coast interactions: The Oder (Odra) case study
Schernewski, G (Germany)	Implementation of the European water framework directive in the Baltic region: a river-basin - coastal sea approach
Mwaipopo, R (Tanzania)	People, society and natural resource management: Understanding the implications of societal dynamics on the coastal environment
Monteiro, P, (South Africa)	Optimizing development needs at the River Basin-Coastal Ecosystem Scale: the Catchment2Coast Case Study in the Incomati-Maputo Bay System

Day 2, Session 10: Application of remote sensing for coastal area management Convenor: Goetz Floser/Weigen Huang Co-convenor: Paul DiGiacomo	
Name	Abstract title
DiGiacomo, P (USA)	Keynote: TBA
Vander Woude, A (USA)	Chlorophyll and sea surface temperature time scales for global oceans and nearshore retentive embayments off California
Ferrari, S (Italy)	Applications of remote sensing in the study of tidal environment ecogeomorphology
Salisbury, J (USA)	Contrasting inherent optical properties and inferred carbon metabolism between five north-eastern (USA) estuary-plume systems
Szlafsztein, C (Brazil)	Vulnerability assessment to coastal natural hazards in Amazon Region (Brazil) using GIS

Day 2, Session 11: Integrated assessment of coastal change and management: socio-economic modelling and future scenarios		
Convenor: Kerry Turner Co-convenor: Robert Nicholls		
Name	Abstract title	
Nicholls, R (UK)	Keynote: An Integrated Assessment of Erosion and Flooding in North-East Norfolk, England	
Prasad, M (India)	Status of quality of coastal environment in India - a review	
Alder, J (Canada)	Value Trade-Offs of US Marine Habitats	
Nunneri, C (Germany)	Managing on-site activities for achieving off-site environmental effects	
Zessner, M (Austria)	Limits of cost-efficiency based nutrient management for river basins	

Pongthanapanich, T	An optimal corrective tax for Thai Schrimp Farming
(Denmark)	

Day 2, Session 12: Highlights of Dutch coastal zone research Convenor: Hans de Boois Co-convenor: Carlo Heip	
Name	Abstract title
Heip, C (Netherlands)	Keynote: History and Ecology of the Western Scheldt Estuary
Hoekstra, P (Netherlands)	Sediment transport, tidal flats, sand waves, shoreline bars
Sinninghe Damste, J (Netherlands)	Carbon, N, P etc. under human influence
Olsen, J (Netherlands)	Ecosystems, food chains and invasive species
Lindeboom, H (Netherlands)	Resources and risks: mining, fisheries, flood risks
Dieperink (Netherlands)	Governance and knowledge management

Day 2, Session 20: Nutrients, sediments and budgets Convenor: M Snoussi	
Name	Abstract title
Nitishinsky, M (Russia)	Carbon and nutrient fluxes in the arctic shelf
De Carlo (Honolulu)	Combined use of a coral reef instrumental platform (CRIMP) and synoptic water column sampling to characterize temporally and spatially the biogeochemical response of Kaneohe Bay, Hawaii to storm runoff input
Dedieu, K (France)	Coupling of carbon, oxygen and nitrogen cycles in sediments from a Mediterranean lagoon
Harcourt Baldwin, J-L (South Africa)	3D-numerical modelling of the hydrodynamics in a tidally energetic tropical embayment
Ruggieri, N (Italy)	Water and Nutrients Budget in a Semi-enclosed area of the coastal Ligurian Sea: the Port of Genoa
Kavalkli, Z (Greece)	An integrated coastal zone management approach based on scenario development and LOICZ budget analysis: application to a coastal ecosystem in the Aegean, Eastern Mediterranean
Bendell-Young, L (Canada)	Towards a sustainable shellfish industry; understanding the importance of upland sources of nitrogen to the geochemical cycling of nitrogen within the foreshore.
Radjawane, I.M (Indonesia)	On the study of simulated nutrient budget in Lampung Bay, Indonesia: Using coupled hydrodynamic-ecosystem model
Vinzon, S (Brazil)	Fine Sediment Retention in Estuaries in Amazon Estuary
Klaasen, W (Netherlands)	High CO2 fluxes from the air into a tidal flat area

Day 2, Workshop 5: Issues in scale of bridging the natural and social sciences	
Convenor: Alison Gilbert	Co-convenor: Jan Vermaatt

Day 2, Workshop 6: Conceptual synthesis of global coastal environments Convenor: Bill Dennison Co-convenor: Don Alcock

Day 2, Workshop 7: Integrating Socio-economic variables in mapping and modelling material deliveries from catchment to coast

Convenor: Liana McManus Co-convenor: Deborah Balk

Case study report: Krause, G (Germany) - Social-ecological system analysis for ICM support: A Mangrove Ecosystem in North Brazil

Day 2, Workshop 8: Marine Protected Areas -	- a management tool for ICZM?
Convenor: Jackie Alder	Co-convenor: Ron Johnstone

Day 3. Plenary presentations	
Name	Abstract title
Bunn, S (Australia)	Making the connection between healthy waterways and healthy catchments
Olsen, S (USA)	Ecosystem-based knowledge for coastal governance

Wednesday 29 June

Day 3, Session 13: Coasta	
Convenor: Laurer	nce Mee Co-convenor: Veerle van der Weerd
Name	Abstract title
Adriaanse, M (Netherlands)	Keynote: TBA
Kannen, A (Germany)	Changing human demands in marine areas: Implications for governance and use of integrated assessment concepts
Rullkoetter, J (Germany)	Interdisciplinary assessment of fundamental driving forces and transformation processes in a tidal basin, southern North Sea
Fernandez-Ramos, V (Uraguay)	GIS techniques for coastal habitats conservation in the Rio de la Plata
Taljaard, S (South Africa)	A proposed framework for managing (land-based) marine pollution sources in the BCLME region

Day 3, Session 14: Urbanisation.	
Convenor: Miche	l Meybeck Co-convenor: Frauke Kraas
Name	Abstract title
Krass, F (Germany)	Keynote: TBA
Acma, B (Turkey)	Promoting sustainable human settlements and eco-city planning approach: Southeastern Anatolia Region and Southeastern Anatolia Project (GAP) in Turkey as a case syudy
Sharaf El Din, S (Egypt)	Impact of the extension of Alexandria coastal road on the transformation of material of the nearshore marine environment
Xu, X (China)	Land use conflicts and coordination in fast urbanized coastal zones
Perissinotto, R (South Africa)	Effects of sewage water disposal on the bio-physical dynamics of a South African temporarily open/closed estuary
Zanchettin, D (Italy)	New perspectives for the future of Venice

Day 3, Session 15: Nutrient flux to the coastal zone: trends and implications Convenor: Nancy Rabalais Co-convenor: Sybil Seitzinger	
Name	Abstract title
Seitzinger, S (USA)	Keynote: TBA
Liu, S (China)	The effects of Changjiang transport on nutrient dynamics in the Yellow and East China Seas in summer
Laane, R (Netherlands)	Anthropogenic influences of enhanced nitrogen and phosphorus concentrations in the Rhine Catchment and the Dutch Coastal zone
Lampert, C (Austria)	Integrated assessment of the nutrient management in the Danube Basin
Staneva, J (Germany)	Response of the Northwestern Black Sea shelf ecosystem to nutrient load and climate change
Jennings, M (South Africa)	Anthropogenic influence on estuarine derived nutrient dispersal in the nearshore off two permanently open South African estuaries with contrasting freshwater inflow

Day 3, Session 16: Shelf p Convenor: Helmu	processes and the Earth System (joint session with IMBER & SOLAS) uth Thomas Co-convenor: Dileep Kumar/Jack Middleburg
Name	Abstract title
Kumar, D (India) & Middleburg, J (Netherlands)	Keynote: Shelf processes: LOICZ-SOLAS-IMBER interactions
Liu, K (China)	The fates of terrigenous organic carbon and absorbed atmospheric CO2 in the East China Sea
Boski, T (Portugal)	Varying sea levels – a possible clue for varying atmospheric CO ₂ levels?
Ramesh, R (India)	Tsunami impact on water and trace gas flux in South India
Madron, X (France)	Natural and anthropogenic forcings on particulate matter budgets in coastal zone: Role of the re-suspension by storms and trawling
Da Cunha, C (Germany)	Regional impact of rivers on continental shelf biogeochemistry

Day 3, Session 17: Coastal ecosystem governance	
Convenor: Steph	en Olsen Co-convenor: Alejandro Robles
Name	Abstract title
Robles, A (USA)	Keynote: TBA
Belfiore S (Italy)	Measuring the Progress and Outcomes of Integrated Coastal Management Initiatives: Toward a Common Framework
Gault, J (Ireland)	From science to policy: Experiences of the COREPOINT project
Rafiqul-Islam, M (Bangladesh)	Institutionalization of ICZM at national level: Bangladesh experience
Osthorst, W (Germany)	ICZM as instrument of regional governance - between spatial planning and extended participation
Pickaver, A (Netherlands)	An indicator set to measure the progress in the implementation of integrated coastal zone management in Europe

Day 3, Session 18: Coastal typologies and datasets	
Convenor: Denni	s Swaney Co-convenor: Bob Buddemeier
Name	Abstract title
Buddemeier, B (USA)	Keynote: Typology: Tools for Integration and Analysis
Vafeidis, A (Greece)	Data requirements for global-scale coastal vulnerability analysis and the DINAS-COAST database
Colijn, F (Germany)	FerryBox - an observational system for the assessment of the coastal and shelf sea ecosystem
Jaganthan, R (India)	GIS based vulnerability mapping and coastal zone management: A case of part of Tamil Nadu coast, India
Hinkel, J (Germany)	The development of the DIVA tool for assessing coastal vulnerability
Maxwell, B (USA)	Web-based tools for typology development and data mining

Day 3, Session 21: Managing the coastal zone Convenor: Eva Roth	
Name	Abstract title
Vodden, K (Canada)	Watershed-coastal interactions: building and supporting institutions for positive change
Dinelli, E (Italy)	Sediment-biota interactions in a polluted coastal lagoon (Piallassa Baiona, northern Italy): integrated geochemical and biological investigations
Burkhard, B (Germany)	Use of a virtual centre of competence as a management, information and education tool in coastal zones

Gee, K (Germany)	National ICZM strategies in Germany: challenges to the spatial planning approach
Moya, B (Cuba)	Hicacos peninsula, a costal territory, with urban and no urban space face to future changes
Ostrovskaya, E (Russia)	Ecological zoning of the Northern Caspian
Fontalvo-Herazo (Germany)	Method for the design of a participative indicator system as a tool for integrated coastal local management, Braganca peninsula-North Brazil
Lengyel, P (Romania)	Electronic networking on Black Sea conservation issues in Romania
Lechuga-Deveze, C.H (Mexico)	Using LOICZ biogeochemical modelling to achieve federal environmental regulations for shrimp aquaculture on the Sinaloa coast of Mexico

Day 3: Workshop 9: Coastal Assessments Convenor: Laurence Mee Co-convenor: Martin Adriaanse

Day 3, Workshop 10: Gauging Progress In Coastal Governance Convenor: Stephen Olsen Co-convenor: Peter Burbridge

Day 3, Workshop 11: From river to coast: Collaboration between GWSP and LOICZ Convenor: Liana McManus & Joe Alcamo Con-convenor: Hartwig Kremer & Eric Craswell

Day 3, Workshop 12: Implementation, Integration, and Participation: Strategies for LOICZ II Convenor: Bob Buddemeier Co-convenor: Bruce Maxwell Keynote: Dürr, H (France) - Towards a classification of coastal ribbon lithology using a new global

database

Poster presentations

Poster author and titles	
Al-Rousan, S (Jordan)	Invasion of anthropogenic CO2 recorded in stable isotopes of planktonic foraminifera from the northern Gulf of Aqaba, Red Sea
Araki, R (Brazil)	Precipitation events associated with landslides in the tropics-Guaruja City, and example of Brazil
Aulinger, A.	Deposition of polycyclic aromatic hydrocarbons emitted from ship engines into the North Sea
Bock, S	Internet tools for coastal issues: A project database
Brewer, DT	Impacts of gold mine waste disposal on the sustainability of deep water fish in a pristine tropical oceanic system
Brogueira, M.J.	Environmental variables shaping phytoplankton structure in Tagus estuary
Buddemeier, R (USA)	Examples and achievements of typological applications
Cinnirella, S (Italy)	Water bodies characterization through GIS for complying the WQOs as established in the WFD
Craswell, E	The Global Water System Project
Darracq, A	Advective travel time variability in stream networks
De Souza (Brazil)	Biogeochemistry of N,P and Si fluxes to the East Brazil coastal zone. A tropical reservoir functioning or multiple impact scenario
Dennis, DM	How does gold mine waste disposal affect shallow coral reef fishes and habitats at Lihir Is, Paua New Guinea?
Ekau, W	IOI - OceanLearn; The Training and Education Programme of the International Ocean Institute
Fry, G	Impacts of gold mine waste disposal on the sustainability of deep slope fish communities in a pristine tropical oceanic system

Glaser, M.	"The Social" in ecosystem research: pitfalls and potentials
Gonzalez-Mirelis, G (Spain)	Land meets ocean: the compilation of a GIS database for linking nutrient loading data with catchment area information
Hilton, M.	The redistribution of Coastal Dune Plants-A Global Issue
Huthnance, J (UK)	Process contributions to shelf-ocean exchange
Jayawardena, U (Sri Lanka)	Effects of the Tsunami to the human society due to the negligent of the Coastal Zone of Sri Lanka
Jedrzejczak, M (Poland)	Bridging biodiversity and tourism towards sustainable development of sandy beaches
Jinadasa, S (Sri Lanka)	Geo-morphological influences to protect the hazard ness of tsunami waves at coastal belt of Yala, Sri Lanka
Llorenz, J.L.P.	The use of phytoplankton and macrophytobenthos as potential quality elements in coastal waters of Ageciras Bay and surrounding areas
Mensah, A (Ghana)	The influence of land use activities on nutrient and sediment loading into upland catchment streams of Ghana
Mhammdi, N (Morocco)	'Natural' and 'Anthropogenic' vulnerability of the coastal zones of Morocco- A preliminary integrated analysis
Milton, D	Heavy metal uptake by coral reef fish at Lihir Is, Papua New Guinea: relative importance of gold mine wastes and natural sources of heavy metals
Monteiro, P.	The biogeochemical linkage that governs the dependency of mangrove new production fluxes and food web responses to river boundary characteristics: Catchment2Coast Programme study in Maputo Bay, Mozambique
Newton, A (Portugal)	The LOICZ Erasmus Mundus joint master in water and coastal management
Nogueira, M (Portugal)	Estuarine processes involving organic carbon at different tide conditions
Nguyen Thi, K.A (Vietnam)	The situation of coastal fishery resources in Vietnam and some proposed solutions
Nunes, L (Brazil)	Environmental problems in the coast of Southeastern Brazil: determinants and impacts
Perillo, G (Argentina)	Shallow ponds as sediment and nutrient retainers, Buenos Aires Province, Argentina
Rabalais, N (USA)	Euthrophication adjacent to the Mississippi river plume
Rebelo, L.P.	Troia peninsula evolution: Foredunes as an accretion/erosion indicator
Rachold, V.	Arctic Coastal Processes
Shaghude, Y. (Tanzania)	The present and anticipated river basin and coastal impacts of water abstraction along the Rufiji river catchment, Tanzania
Spagnoli, F	Organic matter cycling in sediments of gulf of Manfredonia, Southern Adriatic Sea
Thomas, H (Canada)	Enhanced open ocean storage of CO2 from shelf sea pumping
Viaroli, P	Identification of monitoring criteria for transitional waters
Vorlauf, M	Internet tools for coastal issues: Awareness rising and education
Weragala, N.	Definition of a Tsunami safe boundary for Sri Lanka: A case study in the coastal zone of Galle, Matara and Hambantota districts

SESSION AND WORKSHOP DESCRIPTIONS

Session 1. Climate Change and the Coastal Zone

Convenor: Felino Lansigan Co-Convenor: Richard Klein

Coastal zones are vulnerable to climate change and variability and related processes such as sea level rise, typhoons or cyclones, wind circulation, etc. Assessment of the impacts of climate change on the coastal systems may include the evaluation of both the biophysical and socio-economic processes which can be used to identify and formulate a suite of appropriate and cost-effective strategies to cope up with the associated risks. On the other hand, assessment of the vulnerability of the coastal system due to climate change may focus on how such driver of change or the causal mechanism affect the response and capacity of the ecological and social elements in the watershed-river-coast continuum. Such assessment studies may employ a variety or combination of approaches and methods such as (1) modelling and simulation at different scales, (2) scenario analysis, (3) development and use of vulnerability indicators which may be compared across regions and at different scales, (4) assessing vulnerability in the context of sustainability of coastal system, and (5) analysis of risks of socio-economic groups, etc. Regardless of differences in approaches and methods employed, however, assessments of impacts as well as vulnerability studies on climate change and coastal zones contribute to better understanding of the ecological and socio-economic elements. These body of integrated scientific information may be synthesized, and must feed into a platform or framework for science-based policy formulation and knowledge-based resources management strategies for sustainable coastal zone development.

Session 2. Land-Ocean interactions on vulnerable coastal ecosystems (lagoons)

Convenor: Alice Newton Co-Convenor: Nick Murray

Coastal environments occupy one of the most dynamic interfaces on Earth and support some of the most diverse and productive habitats. The existence of many coastal ecosystems is dependent on the land-sea connection or arises directly from it (e.g., lagoons, deltas and estuaries). Coastal environments, settlements, and infrastructure are exposed to land-sourced and marine hazards such as storms (including tropical cyclones), associated waves and storm surges, tsunamis, river flooding, shoreline erosion, and influx of biohazards such as algal blooms and pollutants. The changes occurring in the functioning of the global system have implications for human well being. Basic goods and services provided by coastal systems, such as sufficiency and quality of food and water as well as an environment conducive to human health are all vulnerable to change. All of these factors need to be recognized in assessing human induced changes to the coastal system and the concomitant hazards posed to communities and ecosystems.

The sheltered, coastal waters of lagoons are often regions of restricted exchange that form a transition between the land and the ocean. Lagoons are highly vulnerable and highly valuable coastal systems, both from the ecological and economical perspective.

Very different conditions are found in lagoons from high latitudes, such as boreal lagoons to tropical lagoons, but theses systems share their vulnerability to global change. The sheltered, productive waters of lagoons support important ecosystems and provide a wide range of ecosystem services such as tourism, fisheries and

aquaculture making them particularly attractive coastal zones for human settlement, development and urbanization.

Session 3. Sediment flux to the coastal zone: climate change, anthropogenic influences and future trends

Convenor: Juan Restrepo Co-Convenor: John Milliman

In estuaries and coastal zones, which serve as major sinks for sediments and are the major sites of nutrient-sediment biogeochemical processes, the alteration of the natural river sediment supply can cause considerable changes in the metabolism of the coastal zone and/or coastal zone morphology. Land use and climate change in river catchments during the past century have altered basin hydrology and sediment load, which in turn have produced ecological responses in the upstream and coastal areas of societal significance. The interplay between human induced activities and natural factors along the river catchment /coast continuum has to be understood in assessing the magnitude and variations of sediment flux to the global coastal zone, and the implications of these discharges and changes on human uses and coastal functioning and services.

Session 4. **Biogeochemical Budgets**

Convenor: **Dennis Swaney** Co-Convenor: **Gianmarco Giordani**

Introduction: Under LOICZ I, considerable progress has been made in compiling nutrient budgets (N, P and occasionally Si) of the world's estuaries, bays, and even seas. This work continues, following a well-established LOICZ methodology, and some results on global patterns which are derived from this work have been published. This session welcomes presentations of budgets of coastal ecosystems and related topics including presentations on:

- nutrient budgets which follow current LOICZ conventions
- ♦ budget constructed using alternative approaches (especially where comparisons to the LOICZ approach can be made)
- ♦ budgets of materials other than dissolved N and P (e.g. sediment, other nutrients, etc)
- ♦ techniques for assessing particular aspects of nutrient budgets (e.g. specific nutrient fluxes)
- ◆ techniques for addressing analytical issues of nutrient budget calculations (e.g. uncertainty analysis)
- governance and policy implications in relation to nutrient budgets
- regional or global syntheses of budget-based information, etc.

Session 5. Human Coastal Communities

Convenor: **Bernhard Glaeser** Co-Convenor: **Patricia Gallaugher**

Human coastal communities compete for space and resources. This competition may result in conflicts. Conflicts are driven and shaped by economic interests, cultural values, perceptions of coastal images (how one might expect, believe or wish a coast ought to appear), and by visions of coastal futures.

Conflict resolution requires good governance, which implies, first and foremost, participation, transparency, legitimacy, accountability, and recognition of scales.

Governance across scales means national ICZM strategies, regional specifications, and local implementation as well as linking different coastal communities and human demands.

Mediation, round tables, and dialogues between different coastal communities and stakeholders are one approach to conflict resolution and an important step towards stimulating, implementing and guaranteeing sustainable coastal development. This paper session features different coastal communities acting at different scales, and their interactions, conflicts, values, and visions. The focus will include, *inter alia*, fishing, off-shore wind farming, mariculture communities, and island populations.

Session 6: Science, society and management of coastal zones

Convenor: Wilhelm Windhorst Co-Convenor: Don Alcock

Introduction: Are we ready to bridge the gaps between stakeholders? How do we increase local knowledge, community action and stakeholder participation for integrated coastal zone management? Success will depend on developing the skills and capacity of the people involved. The goal of this cross cutting session is to present innovative training and education concepts, methods and programs which will increase our ability to deal with pressing coastal issues. The session will cover formal education, stakeholder training and community education initiatives.

Workshop 1. Vulnerability of Coastal Ecosystems and Communities to Climate Change

Convenor: Felino Lansigan Co-Convenor: Frank Thomalla

In recent years an increasing amount of scientific research has contributed to improving our general understanding of global climate change and the potential impacts of such change on the world's coasts. However, there are still considerable gaps in our knowledge with respect to how multiple biogeophysical and anthropogenic processes interact to create risk, and how the vulnerability of coastal communities to climate change is shaped by these interlinked processes. In order to improve our understanding of such relationships, integrated assessments of human and ecosystem vulnerability need to be undertaken at different spatial (continental, regional and sub-regional) and temporal scales. Thus, following the session on Climate Change and Vulnerability of the Coastal Zone, a workshop will be convened to define the priority research agenda and workplan for the LOICZ II Theme 1 to address the issues of risk, vulnerability and adaptation to climate change in coupled human and ecological coastal systems. The workshop session will involve panel and open discussions on combining or integrating the analytical approaches of both the natural and social sciences in analyzing and assessing the effects and impacts of changes in the coastal zones on humans and ecosystems. The discussion will focus on the following issues: (1) the development and improvement of scientific methodologies for risk and vulnerability assessments, including indicators, scale of analyses, metrics of measurements; (2) the determination of thresholds and how to cope with uncertainties; (3) the identification of science gaps on risk and vulnerability of coastal systems and how to address them; (4) the identification of adaptive capacities and the development of coping strategies; and (5) how to strengthen scientific networks, research links and collaboration in the context of LOICZ SPIS.

Workshop 2. The Potential Contribution by LOICZ to Integrated Coastal Management

Convenor: **Peter Burbridge** Co-Convenor: **Ben Malayang III**

Integrated Coastal Management (ICM) represents the current phase in development planning where the interactions between land and sea are recognised as having a major influence on how coastal systems respond to human activities. ICM also recognises the influence of policies, investment strategies and development plans governing human activities have on the ability of coastal systems to sustain human development needs and aspirations.

The five new Research Themes are intended to promote better integration among scientific disciplines and our partnership with the International Human Dimensions programme will help to engage the social science more effectively with our strong natural science foundations. The theme on Sustainable Use of Coastal Regions and Natural Systems forms one mechanism for better integration of the results and findings of individual LOICZ initiatives. To be fully effective this and other themes must consider the community of ICM policy makers, planners, managers and people who live and work in coastal regions as essential users of the products of LOICZ science.

LOICZ science has great potential to have a positive influence on policies, strategies and more local management plans for coastal regions. For this to happen the LOICZ community must develop a culture that strives for greater integration of the results of past research, that develops more integrated science in the new research themes and most important- seeks to communicates the results of past and on-going research more effectively with potential users from the field of governance and management. This is a major challenge we must address at this Open Science Meeting.

Workshop 3. Coastal Biogeochemical and Ecological Models

Convenor: John Parslow Co-Convenor: Jack Middelburg

LOICZ 1 adopted a diagnostic approach to coastal biogeochemical modelling, developing a formal and consistent framework for quantifying and analyzing the fluxes and transformations of biogeochemical tracers in coastal systems. LOICZ II will also use prognostic coastal models to predict the responses of coastal biogeochemical (and ecological) systems to changing local and global pressures. There have been major advances in coastal modelling in the last decade, arising from advances in coastal observing systems, process understanding and computing power. This workshop will review the state-of-the-art in both diagnostic and prognostic coastal models, and identify promising approaches for further development and application. The workshop is intended to set the scene for a stand-alone workshop dedicated to this topic to be held later in 2005.

Workshop 4. Raising awareness and ownership of coastal management initiatives

Convenor: **Jeremy Hills** Co-convenor: **Don Alcock**

Capacity building and stakeholder communication programs are often an "after-thought" of ICZM initiatives. However, involvement of administrations, the public and key stakeholder groups is a vital to the success and sustainability of ICZM initiatives. Like good science, stakeholder involvement and interactive communication takes time, effort and resources. A strategic overview is needed to

engage key audiences and to use a mix of tools and techniques that are appropriate to relevant groups which deliver the required consensus or capacity outcomes. This workshop will evaluate case studies to show some approaches in action. An on-line Toolbox for capacity and consensus building will be demonstrated which assists managers in selecting appropriate tools and techniques for use within an overall strategy. By the end of the workshop the delegates should have a good understanding of the diversity of available tools for capacity and consensus building and be able to link them to enabling conditions for success and sustainability in ICZM initiatives.

Session 7. **Geohazards, ground water and risk**

Convenor: Nalin Wikramanayake Co-Convenor: Evgeny Kontar

Shelf zones and coastal zones are becoming major areas of industrial and technological development because of the growing human population in coastal regions and because of their store of natural resources such as fish, oil and gas. Therefore, understanding the risks of natural and human-made hazards in these areas assists to safeguard the populations in these regions and to strengthen the scientific and technological basis of a number of industries including oil and gas production and maritime transport. This session will focus on evaluation of risks of saltwater intrusion, contaminated submarine groundwater discharge and their influence on coastal oceanographic processes, submarine earthquakes, landslides, tsunamis, to produce a cohesive understanding of geo-risks and human-made hazards in coastal, shelf, and continental slope areas.

Session 8. **Ecosystems, land and sea use (Deltas)**

Convenor: Yoshiki Saito Co-Convenor: James Syvitski

Sediment-carrying rivers drop a significant portion of their load at their mouths, allowing nutrient-rich deltaic flood plains to form. These agriculturally productive regions are home to the competing factors of urbanization, food production and often become the intersection between terrestrial and seagoing transportation. Deltas support the world's largest wetland areas. Deltaic coasts are sensitive to the strong but competing influences of sea level fluctuations, accommodation space and sediment supply. Humans now strongly influence upstream sediment supply, and either directly or indirectly sea level change, resulting in coastal erosion. Conversion of natural wetlands (e.g. mangrove swamps) to agricultural land also influences the reach of storm surges, and separately the retention of sediment. Stop banks (levees) further decrease the nutrient supply to the delta plains. Deltaic coasts have been more vulnerable and need sustainability under human pressure.

Session 9. Coastal waters ecohydrology: from the mountains to the coast

Convenor: Laura David Co-Convenor: Eric Wolanski

Point and non-point source pollution throughout the river catchment, erosion, basin-wide land clearing, urbanisation, industrialisation, and other unsustainable human activities induce and perpetuate habitat loss, negative impacts on estuarine and coastal marine resources, and the loss of the ecological services that they provided. Of particular concern is the increasing number and capacity of dams in the watersheds, as well as, the growth of mega-harbours and mega-cities at the coast. Ecohydrology is an emerging problem-solving approach that involves addressing the whole catchment (including hydrological processes and biotic dynamics) as a single entity in order to

be able to understand the science (and hopefully promote sustainable management) of estuaries and the coastal zones. The temporal and spatial dimensions in such an approach spans a time frame from paleohydrological conditions to future global change scenarios and an understanding of the dynamic role of biota from cellular to basin scales.

Session 10. Application of Remote Sensing for Coastal Area management

Convenor: Götz Flöser & Weigen Huang Co-Convenor: Paul DiGiacomo

The coastal zone is a unique area where five major earth systems, the atmosphere, geosphere, hydrosphere, biosphere, and, in high latitude, the cryosphere overlap and are integrated. It has a special role from economic and environmental points of view. The need to understand the interactions linking land-ocean processes to climate in the coastal zone has become a matter of the most serious concern during the last two decades. Remote sensing is one of the important approaches to this concern. It has been used to monitor the coastal zone change and to study the interaction between land and ocean.

Session 11. **Integrated assessment of coastal change and management: Socio- economic modelling and future scenarios**

Convenor: **Kerry Turner** Co-Convenor: **Robert Nicholls**

This session focuses on the need for interdisciplinary approaches to the analysis of long term coastal change and its consequences for society. Speakers will concentrate on the use of scenario-based analysis, following the lead taken by groups such as IPPC. Such approaches first require the combining of natural science modelling outcomes (forcing parameters) and socio-economic driving pressures to provide predictions of the impacts on the environment and economy of the catchment/coast; the subsequent need is then for an analysis of the welfare consequences of the change process over the long run. Both developed and developing country contexts will be reveiwed.

Session 12. **Dutch LOICZ**

Convenor: **Hans de Boois** Co-Convenor: **Carlo Heip**

In this session an overview will be presented of current Dutch research on coastal systems. Key aspects are the holistic nature of coastal systems on the one hand and the disciplinary character of research on the other. A multidisciplinary approach is a prerequisite to address the themes which are formulated for LOICZ-II, but the basic science is disciplinary.

Workshop 5. **Issues of scale in bridging the natural and social sciences**

Convenor: Alison Gilbert Co-Convenor: Jan Vermaat

Natural and social sciences, and disciplines within these broad categories, tend to have different perspectives on scale as well as different methods in dealing with environmental issues which span scales. The aims of this workshop are:

- 1. to examine our capability to deal with multiple scales when analysing coastal zone process, function and governance;
- 2. to identify incompatibilities between/among disciplines; and
- 3. to identify potential means of bridging them.

The workshop will not only be relevant for LOICZ, but it will also contribute LOICZ expertise to a current activity within IHDP's IDGEC project.

Workshop 6. Conceptual synthesis of global coastal environments

Convenor: **Bill Dennison** Co-Convenor: **Don Alcock**

The aim of this half day workshop is to develop conceptual diagrams for the major coastal regions of the world. Regions will be large scale (eg NE Atlantic, Gulf of Mexico, Mediterranean, Caribbean Islands, West Africa, tropical Australia etc) and will capture key environmental processes, key environmental threats and key required management initiatives for each region. Diagrams will initially be drawn by hand and then converted to electronic format using the IAN symbol libraries in Adobe Illustrator (http://www.ian.umces.edu/conceptualdiagrams.php).

The workshop will run approximately as follows:

- ♦ 45 mins: introduction to conceptual diagrams and aims
- ♦ 1 hr 30 mins: working in predetermined regional groups, draw regional conceptual diagrams
- ♦ 45 mins: review conceptual diagrams from regions and plan continued effort

Workshop 7. **Integrating socio-economic variables in mapping and modelling** material deliveries from catchment to coast

Convenor: Liana Talaue-Mcmanus Co-Convenor: Deborah Balk

This workshop will explore current approaches and methods in integrating spatially explicit socioeconomic variables in mapping and modelling deliveries of materials (sediments, nutrients, water) from the catchment to the coast. It will identify a list of mappable socioeconomic indicators that correlate with changes in land use, population, hydrology and coastal uses within various scenarios of economic development, at national and regional scales. In addition, the session/workshop will pinpoint existing datasets at regional and global scales that can be used to develop these indicators.

Workshop 8. Marine Protected Areas – a management tool for ICZM?

Convenor: **Jackie Alder** Co-convenor: **Ron Johnstone**

Marine protected areas (MPAs) are an increasingly popular management tool with multiple ecological and social goals. They are a societally constructed management intervention requiring increased understanding as such. Specifically, there is a need to apply rigorous integrated social and natural science to increase our understanding of the human dimensions of MPAs and to improve their design, implementation, and monitoring. Conflict, diffusion of innovations, and social movements in support of MPAs are important phenomena warranting immediate attention.

Session 13. Coastal assessments

Convenor: Laurence Mee Co-convenor: Veerle van der Weerd

Modern approaches to marine and coastal management such as Ecosystem Based Management (EBM) and Adaptive Management are heavily reliant on our ability to assess the changing state of the environment, the pressures and socio economic drivers that produce state changes, the social and economic impacts of change and the

governance structures, stakeholder attitudes and financial scope to respond to undesirable change. The concept of environmental assessment has moved from a static snapshot of pollution or biological community structure, to a more comprehensive and dynamic systems approach. Techniques for doing this are relatively new however and it is a good time to share current knowledge and practice through the experience of practitioners in this area. The session will benefit from a diverse group of specialists working in local, national and transboundary contexts, including several major international programmes.

Session 14. **Urbanisation**

Convenor: Michel Meybeck Co-Convenor: Frauke Kraas

Urbanization has been one of the key drivers of Global Change over the last 50 years. In the coastal zone it generally combines (i) the development of megacities, (ii) the industrialization, (iii) the construction of facilities for navigation, (iv) the artificialization of the coastline, particularly as a result of mass tourism. These pressures have induced specific environmental issues as the direct release of liquid solid and atmospheric wastes to the coast, with and without adequate treatment, the profound modification of the aquatic habitat and shoreline through harbour construction, channelization of estuaries and deltas, wetland filling. The natural filter functions of the coast are therefore very much altered by urbanization, particularly in deltas and river flood plain regions. In addition to these direct impacts groundwater overpumping in deltaic aquifers and subsequent land subsidence and salt wedge intrusion is commonly observed. Land-use change around megacities (e.g. for suburban development, for fuel wood consumption) can also lead to dramatic changes in water, sediment and nutrients transfers from land to the coast through rivers.

In addition to these issues, most coastal megacities are built up in lowlands sensitive to sea level rise. The management of coastal urban area should consider these multiple conflicting uses together with an Earth System approach at the local to regional scale. Even if appropriate Human responses from coastal stakeholders are taken to alleviate environmental pressures, coastal managers are faced with long-term inheritated issues as pollution hot spots in sediments, fate of contaminated dredged material, severe deteriorations of coastal habitats and food chains etc.

The session should privileged the analysis of multiple urban pressures and their ecological and economic impacts on the coastal resources as well as the modification of coastal filters, the development of indicators of changes that can be used to scale, map and assess the evolution of these issues, and the best governance to manage these questions.

Session 15. Nutrient flux to the coastal zone: tends and implications

Convenor: Nancy Rabalais Co-Convenor: Sybil Seitzinger

Accelerated nutrient flux from water- and airsheds is becoming a major, global environmental problem in estuarine and coastal waters linked to landscapes with population growth and their activities, a focusing of the populace in coastal regions and agriculture expansion. Humans have altered cycles of nitrogen and phosphorus over large regions and increased the mobility and availability of these nutrients to coastal ecosystems. It is likely that coastal nutrient over-enrichment will continue to expand globally given the trajectories of future nutrient loads both in developed and developing countries. Changes in nutrient flux cannot be de-coupled from changes in

hydrology, sediment loads, and climate. Understanding these complex interactions is imperative in efforts to target, by time and type, nutrient loads to coastal systems.

Session 16. Shelf processes and Earth system

Convenor: **Helmuth Thomas** Co-Convenor: **Dileep Kumar** & **Jack Middelburg**

This session will be jointly convened by LOICZ, IMBER and SOLAS. The session intends to identify joint interests and to initialise joint implementation strategies for coastal zone research, this including the land and atmospheric communities in order to address this issue as comprehensive as possible.

Session 17. **Coastal Ecosystem Governance**

Convenor: **Stephen Olsen** Co-Convenor: **Alejandro Robles**

Governance is the process by which human societies negotiate the purposes, the rules and the procedures by which they regulate their activities and distribute power, access to resources and wealth. All governance systems are driven by the values that reflect what a society believes to be important. Governance systems are also shaped by the ecosystems in which a society lives as well as by their relationships with other societies with which they interact. Together these combine to form perceptions of how the world works and how an individual or group fits within their context. When considering the issues posed by the governance of a coastal ecosystem a first step is to understand how the associated population perceives the past trajectory of change and articulates goals for a desirable future. The analysis of governance systems is directed at understanding how the planning and decision making process relates to expressions of ecosystem change at a range of interconnected spatial and temporal scales.

Session 18. Coastal typologies and datasets

Convenor: **Dennis Swaney** Co-Convenor: **Bob Buddemeier**

The LOICZ environmental dataset, a global datset of environmental variables at ½ degree resolution, was developed during LOICZ I to form a basis for categorizing coastal and marine environments at global and regional scales. LOICZview, a sophisticated, online interactive software tool for statistically classifying such data, was developed in tandem assist environmental scientists in developing such typologies. During the last 10 years, with the rise of GIS software and increasing availability of satellite imagery, we have seen an explosive growth in global and regional environmental data developed for many purposes. This session welcomes presentations on new datasets, typologies, and analytical tools developed either independently or with LOICZ, including presentations on:

- ♦ Global and regional datasets relevant to the coastal zone
- ♦ New typological analyses of the coastal zone
- ♦ Addressing scaling questions (i.e. upscaling and downscaling beyond the resolution of the data)
- ♦ Technical (data analysis) issues related to developing typologies
- Governance and policy implications of coastal classifications

Workshop 9 Coastal assessments

Convenor: Laurence Mee Co-Convenor: Martin Adriaanse

Modern approaches to marine and coastal management such as Ecosystem Based Management (EBM) and Adaptive Management are heavily reliant on our ability to assess the changing state of the environment, the pressures and socio economic drivers that produce state changes, the social and economic impacts of change and the governance structures, stakeholder attitudes and financial scope to respond to undesirable change. The concept of environmental assessment has moved from a static snapshot of pollution or biological community structure, to a more comprehensive and dynamic systems approach. Techniques for doing this are relatively new however and it is a good time to share current knowledge and practice through the experience of practitioners in this area. The session will benefit from a diverse group of specialists working in local, national and transboundary contexts, including several major international programmes.

Workshop 10. Gauging Progress In Coastal Governance

Convenor: **Stephen Olsen** Co-Convenor: **Peter Burbridge**

Long-term and effective coastal governance is the major factor limiting progress towards the goal of more sustainable forms of coastal development. Science informs the processes of governance, but rarely drives them. Adequate funding is also essential but much that is allocated to improved coastal ecosystem planning and decision making is squandered. This session explores the concepts and tools for developing governance baselines and monitoring progress towards unambiguous goals that define desire desired societal and environmental conditions in a manner that encourages learning and adaptation. It will explore the interaction between the natural and social sciences and the processes by which coastal governance evolves and responds to new knowledge. Conclusions will be drawn on best and worst practices and recommendation will be made.

Workshop 11. From river to coast: Collaboration between GWSP and LOICZ Convenors: Joe Alcamo/Michel Meybeck Co-convenors: Nancy Rabalais/Eric Craswell

This workshop is by invitation only and is an opportunity for the Global Water Systems Project and LOICZ to discuss areas of mutual interest and collaboration for their future research activity.

Workshop 12. Implementation, Integration, and Participation: Strategies for LOICZ II

Convenor: **Bob Buddemeier** Co-Convenor: **Bruce Maxwell**

The workshop will consider how to preserve, expand on, and augment the successful techniques of LOICZ I in addressing the topics of LOICZ II, building on the preceding sessions and workshops to develop specific recommendations. Productive experience with database development and typology applications in LOICZ I will provide a basis for addressing communication, information infrastructure, and shared resources as critical elements in building both community and capacity while addressing the scientific goals. Implementation strategies will need to address the increased diversity and sophistication of both scientific goals and available technology. In addition to action recommendations, desirable workshop products

include initial formulation of proposals for infrastructure support, and identification of issues to address in a possible follow-up workshop on typology and data/information resource needs.

Participants List

Dr Stefan Aarninkhof

Netherlands

Telephone: 31 0 15 285 8999

Fax: 31 0 15 285 8582

Email: Stefan.Aarninkhof@wldelft.nl

www: www.nckweb.org

Dr.Bulent Acma

Anadolu University, Department of

Economics, Unit of

Southeastern Anatolia Project GAP,

Yunusemre Campus

26470 Eskisehir/TURKEY

Telephone: 90 222 3350580ext.6171

Fax: 90 222 3353616

Email: bacma@anadolu.edu.tr

www:

https://home.anadolu.edu.tr/bacma

Martin Adriaanse

UNEP/GPA

P.O. Box 16227 2500 BE

The Hague

The Netherlands

Teephonel: +31 70 311 4466

Fax: +31 70 345 6648

Email: m.adriaanse@unep.nl

Ms. Joana D. Akrofi

Division of Early Warning and

Assessment (DEWA)

United Nations Environment

Programme (UNEP)

P. O. BOX 30552

Nairobi

Kenya

Telephone: + 254 2 62 3503

Fax: + 254 2 62 2798

Email: Joana.Akrofi@unep.org

Prof. Dr. Joseph Alcamo

Director Center for Environmental Systems Research University of Kassel

Kurt Wolters Strasse 3

D-34125 Kassel

Germany

Telephone: +49 561 804 3898

Fax: +49 561 804 7266

Email: alcamo@usf.uni-kassel.de

Don Alcock

80 Meiers Rd

Indooroopilly

Brisbane

Australia

Telephone: 61 7 3362 9373

Fax: 61 7 3362 9372

Email: don.alcock@nrm.qld.gov.au

www: www.coastal.crc.org.au

Jacqueline Alder

Sea Around Us Project

Fisheries Centre, UBC

2259 Lower Mall Road

Vancouver, BC V6T 1Z4

Canada

Telephone: 1-604-822-6903

Fax: 1-604-822-8934

Email: j.alder@fisheries.ubc.ca

Dr. Saber Al Rousan

Marine Science Station

P.O.Box 195

77110 Aqaba, JORDAN

Telephone: 962 3 2015145

Fax: 962 3 2013674

Email: s.rousan@ju.edu.jo

Christos Anagnostou Institute of Oceanography

P.O.Box 712 19013 Anavissos

Attika Greece

Telephone: +30 22910 76369 Email: chanag@ath.hcmr.gr www: http://www.hcmr.gr/

Apichart Anunkularmphai

Kuwait

Ricardo Araki Caixa Postal 6152

Baro Geraldo UNICAMP Campinas So Paulo CEP 13083970

Telephone: 55 19 3788 4653 or 4570

Fax: 55 19 32891562

Email: ricardo.araki@ige.unicamp.br www: http://www.ige.unicamp.br/

Russell Arthurton 5A Church Lane

Grimston

Melton Mowbray Leics LE14 3BY UK

Telephone: 44 1664 810024

Email: r.arthurton@btinternet.com

www:

www.r.arthurton.btinternet.co.uk

Dr. Armin Aulinger MaxPlanckStrasse 1 21502 Geesthacht

Germany

Telephone: 494152872335

Fax: 494152872332 Email: aulinger@gkss.de Denis Bailly

12, rue de Kergoat

CS

29 Brest cedex 3

France

Telephone: 33 2 98 01 69 33 Fax: 33 2 98 01 69 35

Email: denis.bailly@univbrest.fr

Dr. Deborah Balk Columbia University

CIESIN Center for International Earth

Science Information

Network

PO Box 1000

Palisades, NY 10964 USA Telephone: 8453658965

Fax: 8453658922

Email: dbalk@ciesin.columbia.edu www: www.ciesin.columbia.edu

Bailly Denis Seferi 4

Agia Paraskevi 15342

Greece

Telephone: (+30) 210 600 72 66 Email: denis.bailly@univ-brest.fr

Rhoda Ballinger

School of Earth, Ocean and Planetary

Sciences

Cardiff University Main Building Park Place Cardiff CF10 3YE

Telephone: +44 29 2087 6671 Email: BallingerRC@cardiff.ac.uk Mr. Andrea Barbanti

Thetis s.p.a. Castello 2737/f, 30122

Venice Italy

Telephone: 390412406101 Fax: 390415210292

Email: andrea.barbanti@thetis.it

www: thetis.it

Gabriella Bartholini

Via Pola, 4

71010 Lesina FG

Italy

Telephone: 39 0882 992705

Fax: 39 0882 991352

Email:

gabriella.bartholini@fg.ismar.cnr.it

Alberto Basset

Department of Biological and Environmental Sciences and

Technologies

University of Lecce

Ecotekne, SP Lecce Monteroni, 73100

Lecce

Telephone: 39 832 298606

Fax: 39 832 298722

Email: alberto.basset@unile.it

Stefano Belfiore

Intergovernmental Oceanographic

Commission of UNESCO

1, rue Miollis75015 Paris

France

Telephone: 33 1 45 68 40 68

Fax: 33 1 45 68 58 12

Email: s.belfiore@unesco.org

www:

http://ioc.unesco.org/iocweb/index.php

Leah Bendell Young

Department of Biological Sciences

Simon Fraser University 8888 University Ave.

Burnaby, B.C. V5A 1S6 Telephone: 6042915621

Fax: 6042913496 Email: bendell@sfu.ca

Justus van Beusekom

AlfredWegenerInstitute for Polar and

Marine Research

Wadden Sea Station Sylt

Hafenstrasse 43 D25992 List/Sylt

Germany

Telephone: 49 4651 956 151

Fax: 49 4651 956 200

Email:

jbeusekom@awibremerhaven.de

www:

http://www.awibremerhaven.de/Benthi

c/CoastalEco/

H Biswas

Department of Marine Science

University of Calcutta

35 B. C Road Calcutta 700 019 West Bengal

India

Email: bhaimanti@hotmail.com

S Bock

EUCC-The Coastal Union Germany

Poststr. 6

18119 Rostock-Warnemünde

Germany

Email: steffen.bock@eucc-d.de

Hans de Boois

PO.Box 93510

2509 AM The Hague

The Netherlands

Telephone: 31 70 3440 752

Fax: 31 70 3819033 Email: boois@nwo.nl www: www.nwo.nl

Gerben Boot

WL Delft Hydraulics

P.O.Box 177 2600 MH Delft The Netherlands

Telephone: 31 0 15 285 8966

Fax: 31 0 15 285 8582

Email: gerben.boot@wldelft.nl

www: www.wldelft.nl

Tomasz Boski

Universidade do Algarve

CIMA FCMA Campus de Gambelas 8000 Faro, Portugal

Telephone: 351 289800926

Fax: 351 289818353 Email: tboski@ualg.pt

www: http://www.ualg.pt/cima

Gerhard Breulmann

c/o INPE, Av. Dos Astronautas 1758, Sao Jose dos Campos SP, 12227010

Brazil

Telephone: 551239456865

Fax: 551239414410

Email: Gerhard@dir.iai.int

www: www.iai.int

David Brewer

CSIRO Marine Research

PO Box 120,

Cleveland, QLD 4163

Australia

Telephone: 61 7 3826 7246

Fax: 61 7 3826 7222

Email: david.brewer@csiro.au www: www.marine.csiro.au

Maria Jos Brogueira

IPIMAR/DAA

Av. Brasilia

1449006 Lisboa

Portugal

Telephone: 351 213027006

Fax: 351 213015948 Email: mzb@ipimar.pt

Antje Bruns

Research Technology Centre

Westcoast Hafentrn 1 25761 Bsum Germany

Telephone: 49 04834 / 604216

Fax: 49 04834 / 604299

Email: bruns@ftzwest.unikiel.de www: www.coastalfutures.de

Bob Buddemeier

Dr. Robert W. Buddemeier Kansas Geological Survey University of Kansas 1930 Constant Avenue Lawrence, KS 66047 USA Telephone: 1 785 8642112

Fax: fax 1 785 8645317

Email: buddrw@ku.edu

Professor Stuart E. Bunn

Centre for Riverine Landscapes

Griffith University

Nathan, Queensland, Australia, 4111

Telephone: 617 38757407 Fax: 617 38757615

Email: S.Bunn@griffith.edu.au

www:

www.gu.edu.au/centre/riverlandscapes

Prof. Peter Burbridge

The Orchard, House of Ross Comrie, Perthshire PH6 2JS

United Kingdom

Phone: +44-1764 670 900 Fax: +44-1764 670 981

E-mail: p.r.burbridge@ncl.ac.uk or Peter Burbridge@yahoo.co.uk

Dr. Benjamin Burkhard

Ecology Centre, University of Kiel

Olshausenstr. 40

24098 KIEL, Germany

Telephone: 49 431 880 1230

Fax: 49 431 880 4083

Email: bburkhard@ecology.unikiel.de

www:

www.ecology.unikiel.de/bburkhard/

Ms. Nahida al-Majed BuTayban

Kuwait

Graça Cabeçadas IPIMAR/DAA Av.Brasilia 1449-006 Lisboa

Portugal

Telephone: +351 213027006

Fax: +351 213015948 Email: gc@ipimar.pt Dr. Mabec Campos

Southeast Asian Regional Center for

Graduate Study and

Research in Agriculture SEARCA

College, Laguna Philippines

Telephone: 63 49 536 2290 Loc. 417

Fax: 63 49 536 4105

Email: lamonbay@agri.searca.org,

cmaribec@yahoo.com www: www.searca.org

Tim Carruthers

2020 Horns Point Rd

Cambridge MD 21613

USA

Telephone: 1 410 228 9250 ext 654

Fax: 1 410 228 3843

Email: tcarruth@umces.edu www: www.ian.umces.edu

So Min Cheong

University of Kansas, Department of

Geography

1475 Jayhawk Blvd, Lawrence, KS

660457613

Telephone: 785.864.5144

Fax:

Email: somin@ku.edu

www:

Franciscus Colijn

GKSS Research Centre, Institute for

Coastal Research

Max Planck Strasse 1, 21502

Geesthacht, Germany

Telephone: 494152871533

Fax: 494152872020 Email: colijn@gkss.de www: www.gkss.de Flaviano Collavini

Istituto di Scienze Marine CNR

San Polo 1364 30125 Venezia

Italy

Telephone: 39 041 5216880

Fax: 39 041 5216815

Email: f.collavini@ismar.cnr.it

www: www.ismar.cnr.it

Dr Sarah Cornell

QUEST

Department of Earth Sciences

University of Bristol Bristol BS8 1RJ UK

Telephone: 44 0117 331 5136

Fax: 44 0117 925 3385

Email: sarah.cornell@bristol.ac.uk

www: http://quest.bris.ac.uk

Leticia C. da Cunha

Max Planck Institute for

Biogeochemistry

Dynamic Green Ocean Project

HansKnoellStrasse 10

D07745 Jena Germany

Telephone: 493641576215

Fax: 493641577200

Email: lcotrim@bgcjena.mpg.de

www:

www.bgcjena.mpg.de/bgcsynthesis/pro

jects/greenocean/index.shtml

Dr. Eric Craswell

Global Water System Project GWSP

International Project Office

WalterFlexStrasse 3

53113 Bonn, Germany

Telephone: 49 0228736187

Fax: 49 02287360834

Email: Eric.Craswell@unibonn.de

www: www.gwsp.org

Chris Crossland

1499 David Low Way

Yaroomba Q4573

Australia

Telephone: 61754730768

Fax: 61754739768

Email: jcross@gil.com.au

Laura T. David

Marine Science Institute

University of the Philippines, Diliman

Quezon City 1101

Philippines

Telephone: 6329223962

Fax: 6329247678

Email: ldavid@upmsi.ph

www: http://www.msi.upd.edu.ph

Heinen De Carlo

Department of Oceanography

SOEST

University of Hawaii at Manoa

Honolulu HI 96822 USA

Email: edecarlo@soest.hawaii.edu

Dr. Karine Dedieu

Laboratoire des Sciences du Climat et

de l'Environnement

Unit Mixte de Recherche CNRSCEA

Domaine du CNRS Bat 12

Avenue de la Terrasse

F91198 GifsurYvette France

Telephone: Tel:33169.82.43.39

Fax: Fax:33169.82.35.68

Email: Karine.Dedieu@lsce.cnrsgif.fr

/

karinededieu@gmail.com

Juan Jos Del Toro

Circunvalacin Oriente 135

Ciudad Granja

Zapopan, Jalisco Mxico

Telephone: 52 3633273374

Fax: 52 3633273374

Email: jdeltoro1973@yahoo.com

Nicolette Demetriades

P.O. Box 417

Hyper by the Sea

4053

Telephone: 27 31 572 2705

Fax: 27 31 572 5171

Email: nicolette@mer.co.za

Darren Dennis

CSIRO Marine Laboratories,

233 Middle Street,

Cleveland, Queensland,

Australia, 4163.

Telephone: 61 7 38267248

Fax: 61 7 38267222

Email: Darren.dennis@csiro.au

Dr William C. Dennison

University of Maryland

Center for Environmental Science

P.O.Box 775

Cambridge, MD 21613-0775

USA

Phone: +1 410 228 9250 x 608

Fax: +1 410 228 3843

E-mail: dennison@umces.edu

Paul M. DiGiacomo

Jet Propulsion Laboratory

California Institute of Technology

MS 301165

4800 Oak Grove Drive

Pasadena, CA 911098099 USA

Telephone: 18183548189

Fax: 18183939815

Email:

Paul.M.Digiacomo@jpl.nasa.gov

Enrico Dinelli

CIRSA, Interdepartmental centre for

environmental sciences University of Bologna

Via Sant Alberto 163

48100 Ravenna Italy

Telephone: 390544937341

Fax: 390544937311

Email: enrico.dinelli@unibo.it

Lindy Dingerson

PO Box 1346

1208 Greate Rd

Virginia Institute of Marine Science

Gloucester Point, VA 23062

Telephone: 804 6847140

Email: lynne@vims.edu

Dr. Hans Dürr UMR Sisyphe

Universit Pierre et Marie Curie Paris

4, pl. Jussieu, Case 105

75252 Paris Cedex 05, France

currently at:

ESA Ecologie des Systmes Aquatiques

Universit Libre de Bruxelles Campus Plaine CP 221 B1050 Bruxelles, Belgium Telephone: 3301 44 27 51 22

Fax: 3301 44 27 45 88

Email: Hans.Duerr@ccr.jussieu.fr/

Hans.Duerr@ulb.ac.be

www: http://www.sisyphe.jussieu.fr/

Werner Ekau

International Ocean Institute IOI International Ocean Institute Operational Centre Germany c/o Centre for Tropical Marine **Ecology**

28359 Bremen Germany Telephone: 494212380023

Fax: 494212380030

Email: wekau@zmt.unibremen.de

www: zmtbremen.de

Susannah Eliott

Deputy Director, Communications

IGBP Secretariat

Royal Swedish Academy of Sciences

Box 50005

S-104 05 Stockholm

Sweden

Tel: +46-8-16-64-48 Fax: +46-8-16-64-05

Email: susannah@igbp.kva.se

George Emery

National Research Council Canada Room E1 - 131, Building M-58

1200 Montreal Road

Ottawa, Ontario, K1A 0R6 Telephone: 613-993-4868

Fax: 613-941-0986

Email: George.Emery@nrc.ca

Edgar E. Gutiérrez Ezpeleta

Observatorio del Desarrollo de la

Universidad de Costa Rica

2060 San Pedro de Montes de Oca

Costa Rica

Telephone: (+506) 207-3325, 207-

3327

Fax: (+506) 207-3329

Email: egutierr@cariari.ucr.ac.cr

TA Essens

Email: tijl.essens@gmail.com Virginia Fernandez Ramos

Igua 4225

Piso 14 Ala Sur. Montevideo Uruguay

Telephone: 598 2 525 1552

Fax: 598 2 411 4180 Email: vivi@fcien.edu.uy

http://ltaat.fcien.edu.uy/indexa.htm

Sergio Ferrari

International Centre for Hydrology D.

Tonini

Via Loredan, 20 35131 Padova

Italy

Telephone: 390498275445

Fax: 390498275446

Email: ferrari@idra.unipd.it www: www.image.unipd.it

Dr. Götz Flöser

Institute of Coastal Research, GKSS

Research Centre MaxPlanckStrasse 1

D 21502 Geesthacht

Germany

Telephone: 49 4152 87 2345

Fax: 49 4152 87 2332 Email: Floeser@gkss.de

www: http://coast.gkss.de/loicz

Martha Liliana Fontalvo Herazo

Fahrenheitstrs. 6, 28359 Bremen,

Germany

Telephone: 49 0 421 2380049

Fax: 49 0 421 23800

Email: fontalvo@unibremen.de

Ticky Forbes

School of Biology and Conservation

Sciences

University of KwaZulu Natal, Durban

4041

Telephone: 27 31 572 2705

Fax: 27 31 572 5171 Email: ticky@mer.co.za

Dr. Miguel D. Fortes

The Marine Science Institute

Velasquez St. College of Science

University of the Philippines

Diliman, Quezon City, Philippines

Telephone: (63-2) 922-3959

Fax: +662 561 5118 (Bangkok) &

(63-2) 924-7678

Email: fortesm@upmsi.ph

Andrea Florella Ribeiro Franco Dept. Cincias e Engenharia do

Sept. Cineras e Engenharia

Ambiente

Faculdade de Cincias e Tecnologia

Quinta da Torre

2829516 Monte de Caparica

PORTUGAL

Telephone: 351212948300 X 10117

Fax: 351212948554

Email: andrea@ecowin.org

www: ecowin.org

Dr. Jana Friedrich

Alfred Wegener Institute for Polar and

Marine Research Am Handelshafen 12 D-27570 Bremerhaven

Telephone: +49 471 4831 1886

Fax: +49 471 4831 1425 Email: jfriedrich@awi-

bremerhaven.de

Gary Fry

PO Box 120

Cleveland, Queensland 4163

Australia

Telephone: 61 7 3826 7202

Fax: 61 7 3826 7222 Email: gary.fry@csiro.au www: www.marine.csiro.au

Patricia Gallaugher

8888 University Drive

Burnaby

British Columbia Canada V5A 1S6

Telephone: 604 291 4653

Fax: 604 291 3851

Email: pgallaug@sfu.ca

www: www.sfu.ca/coastalstudies, www.sfu.ca/cstudies/science

Jeremy Gault

Coastal Marine Resources Centre

University College Cork

Naval Base Haulbowline

Cobh
Co. Cork
Ireland

Telephone: 353 21 4703108

Fax: 353 21 4703132 Email: j.gault@ucc,ie www: http://cmrc.ucc.ie/

K. Gee

Social Science Research Center Berlin,

Reichpietschufer 50 D-10785 Berlin Germany

Email: gee@wz-berlin.de,

Gianmarco Giordani

Area Parco delle Scienze 33/A

I43100 Parma

Italy

Telephone: 39 0521 905976

Fax: 39 0521 905402

Email: giordani@nemo.unipr.it www: http://www.dsa.unipr.it

Bernhard Glaeser

Social Science Research Center Berlin

WZB

Reichpietschufer 50, D10785 Berlin

Germany

Telephone: 49 30 25491 286 /

285assistant

Fax: 4903025491219 / 254 Email: bglaeser@wzberlin.de

www: wzberlin.de;

dghumanoekologie.de; ikzmoder.de;

coastal futures.de Marion Glaser

Centre for Tropical Marine Ecology

(ZMT)

University of Bremen

Fahrenheitstr. 6 28359 Bremen

Germany

Email: mglaser@zmt.uni-bremen.de

Barbara Göbel

Executive Director

International Human Dimensions Programme on Global Environmental

Change

Walter-Flex-Str. 3

53113 Bonn Germany

Tel: +49-228-73 90 51

Email: Goebel.ihdp@uni-bonn.de

Beverly Goh

Natural Sciences, National Institute of Education, Nanyang Technological

University

1 Nanyang Walk Singapore 637616.

Email: bgoh@nie.edu.sg

Dr. Gomez-Gesteira

Faculty of Sciences. University of

Vigo. Campus As Lagoas. 32004 Ourense Spain. Telephone: 34 988387232

Fax: 34 988387227

Email: mggesteira@uvigo.es www: http://webs.uvigo.es/ocean Genoveva Gonzalez Mirelis

De Dageraad 1 1797SK Den Hoorn The Netherlands

Telephone: 31 0 626236822

Fax: 31 0 222319235

Email: genogonzalez@excite.com

www:

Alison Gilbert

Institute for Environmental Studies

Vrije Universiteit, De Boelelaan 1087

1085 HV Amsterdam, The Netherlands

+31 20 598 9555 +31 20 598 9553

Alison.gilbert@ivm.falw.vu.nl

//www.vu.nl/ivm

Prof. Chris Gordon

Centre for African Wetlands

P.O. Box LG 67

University of Ghana, Legon

Accra, Ghana

Telephone: 233 21 512 835/6

Fax: 233 21 512 837 Email: afriwet@idngh.com www: www.afriwet.org

Sylvie Gunette

University of British Columbia

Fisheries Centre 2259 Lower Mall

Vancouver, BC, Canada

V6T 1Z4

Telephone: 1 604 8226348

Fax: 1 604 8228934

Email: s.guenette@fisheries.ubc.ca

www:

http://www.marinemammal.org/MMR

U/sylvie.html

JennyLisa Harcourt-Baldwin

Room 131

Oceanography Department University of Cape Town

Private Bag

7700

Cape Town

Telephone: 27 021 650 3281

Fax: 27 021 650 3979

Email: baldwinj@ocean.uct.ac.za

Dr. Peter Harrison 100 Sussex Drive Room 1010 East Ottawa, Ontario Canada K1A 0R6

Telephone: 6139906982

Fax: 6139911009

Email: Peter.harrison@nrccnrc.gc.ca

Nick Harvey

The University of Adelaide

Adelaide

South Australia, 5005

Telephone: 61 8 8303 5923

Fax: 61 8 8303 3372

Email: nick.harvey@adelaide.edu.au

Ms. Sherry Heileman 31 Rue Robert de Flers

Paris 75015 France

Telephone: +33 1 40 59 08 34 Email: sh_heileman@yahoo.com Carlo Heip

Centre for Estuarine and Marine Ecology, NIOOKNAW

POB 140

4400 AC Yerseke The Netherlands

Telephone: 31 113 577 445

Fax: 31 113 573 616

Email: c.heip@nioo.knaw.nl www: http://www.nioo.knaw.nl

Peter M.J. Herman

Netherlands Institute of Ecology Centre for Estuarine and Marine Ecology

P.B. 140

4400 AC Yerseke The Netherlands

Telephone: 31/113.577475

Fax: 31/113.573616

Email: p.herman@nioo.knaw.nl www: www.nioo.knaw.nl

Kathy Hibbard

Terrestrial Sciences Section

National Center for Atmospheric

Research

Post Office Box 3000 Boulder, CO 80305

Telephone: +1 303.497.1706

Fax: +1 303.497.1695 Email: kathyh@ucar.edu

Dr Jeremy Hills

Envision, Ridley Building,

University of Newcastle upon Tyne,

Newcastle, NE1 7RU,

UK.

Telephone: 44 0 191 222 6673

Fax: 44 0 191 222 5095

Email: J.Hills@Envision.uk.com www: www.Envision.uk.com

Mike Hilton

Department of Geography

University of Otago

PO Box 56

Dunedin, New Zealand

Telephone: 64 3 479 8778

Fax: 64 3 479 9037

Email: mjh@geography.otago.ac.nz www: www.geography.otago.ac.nz

Jochen Hinkel

Potsdam Institute for Climate Impact

Research PIK P.O. Box 601203 14412 Potsdam

Telephone: 493312882598

Fax:

Email: hinkel@pikpotsdam.de

Prof. dr. Piet Hoekstra

Institute for Marine and Atmospheric

Research Utrecht IMAU

Department of Physical Geography
Faculty of Geosciences Utrecht

University

Heidelberglaan 2 P.O. Box 80.115

3508 TC Utrecht

Netherlands

Telephone: 31 30 2532753 / 2532749

secr

Fax: 31 30 2531145

Email: p.hoekstra@geo.uu.nl www: Coastalresearch.nl

Dr Weigen Huang

Director of Division of Marine Remote

Sensing

Deputy Director of Lab. of Ocean

Dynamic

Processes and Satellite Oceanography Second Institute of Oceanography

State Oceanic Administration

Hangzhou

Zhejiang 310012

China

Telephone: +86 571 88064274

Fax: +86 571 88839374

Email: wghuang@mail.hz.zj.cn or

lopso@mail.hz.zj.cn

JiaJang JJ Hung

Institute of Marine Geology and

Chemistry

National Sun YatSen University

Kaohsiung Taiwan

Telephone: 88675255147

Fax: 88675255130

Email: hungjj@mail.nsysu.edu.tw www: www2.nsysu.edu.tw/mgac/

John Huthnance

Proudman Oceanographic Laboratory

Joseph Proudman Building

6 Brownlow Street Liverpool L3 5DA, UK

Telephone: 44 151 795 4852

Fax: 44 151 795 4801 Email: jmh@pol.ac.uk

www: http://www.pol.ac.uk

Dr.R.Jaganathan

Reader

Department of Geography

University of Madras

Chennai600005

India

Telephone: 91 44 25368778 ext.303

Res 91 44 24617006 Fax: 91 44 25366693

Email: rjnathan@hotmail.com,

rjnathan@unom.ac.in

Robert James

National Research Council of Canada 1200 Montreal Road, Bldg. M-58

Ottawa, Ontario Canada K1A 0R6

Telephone: +1 613 990-7381

Email: Rob.James@nrc-cnrc.gc.ca

Dr. Upali Jayawardena

Department of Civil Engineering,

Faculty of Engineering, University of Peradeniya

Peradeniya Sri Lanka

Telephone: 94 81 2388029

Fax: 94 81 2388158 Email: udsj@pdn.ac.lk

Dr. MarcinFilip Jedrzejczak c/o Warsaw Independent Ltd.

Al. Jerozolimskie 125/127 pok. 220

02017 Warsaw

Poland

Telephone: 48 601 662444

Fax: 48 22 628 9666

Email: humbak@praeter.pl

Dr. Ljubomir Jeftic

Nova Ves 81 10000 Zagreb

Croatia

Telephone: +385 1 466 7662

Fax: +385 1 466 7662

Email: ljubomir.jeftic@zg.htnet.hr

Mike Jennings

Zoology and Entomology Department

Rhodes University

PO Box 94 Grahamstown South Africa

6140

Telephone: 27 46 622 8525

Fax: 27 46 622 8959

Email: g04j5653@campus.ru.ac.za

http://www.ru.ac.za/academic/departm

ents/zooento

Assoc. Prof. Ron Johnstone Centre for Marine Studies.

University of Queensland, St Lucia,

4072, Qld. Australia

Telephone: 61 07 33654333

Fax: 61 07 33654755 Email: rnje@uq.edu.au

www: www.marine.uq.edu.au

Mildred Jourdan P.O. Box 59 1790 AB

Den Burg, Texel The Netherlands

Telephone: 310222369433

Fax:

Email: mildred@nioz.nl www: www.nioz.nl

Saa Kabuta Kortenaerkade 1 Postbus 20907

2500 EX The Hague

The Netherlands

Telephone: 0031703114201

Fax: 0031703114300

Email:

s.h.kabuta@rikz.rws.minvenw.nl

www: www.RIKZ.nl

Andreas Kannen Hafentoern 1

Telephone: 49 04834 604121

Fax: 49 04834 604299

Email: kannen@ftzwest.unikiel.de www: www.unikiel.de/ftzwest/

Ms Zacharo Kavakli

Department of Marine Sciences,

University of the Aegean,

Mytilini, Lesvos, 81100, Greece Telephone: 302251036811

Fax: 302251036809

Email: zkavakli@marine.aegean.gr

http://marineserver2.aegean.gr/marine/

Prof. Dieter Kelletat

Email: Dieter.kelletat@uniessen.de

Abdellatif Khattabi

Ecole Nationale Forestire d Ingnieurs

BP. 511 Tabrikt

Sale Morocco

Telephone: 212 61 21 08 54

Fax: 212 37 86 11 49

Email: akhattabi@Email.com

Wim Klaassen Marine Biology

University of Groningen

PO Box 14. Haren The Netherlands

Telephone: 31 50 3636141 Email: W.Klaassen@rug.nl

http://www.rug.nl/biologie/onderzoek/ onderzoekgroepen/marieneBiologie/in

dex

Richard J.T. Klein P.O. Box 601203 14412 Potsdam

Germany

Telephone: 49 331 2882651 Fax: 49 331 2882642

Email: richard.klein@pikpotsdam.de

www:

http://www.pikpotsdam.de/richardk

Prof. Dr. Bastiaan A. Knoppers
Departamento de Geoqumica
Universidade Federal Fluminense
Morro do Valonguinho s/n
24020007 Niteri, RJ, Brazil
Telephone: 552126292210

Fax: 552126292234

Email: geoknop@geoq.uff.br www: www.uff.gov.br

Lawrence Koe

Environmental Engineering Research Centre

Nanyang Technological University

50 Nanyang Avenue, SINGAPORE 639798 Telephone: 65 67904773

Fax: 65 67927319

Email: ccckoe@ntu.edu.sg

www: http://www.ntu.edu.sg/cee/

Isao Koike

Nakano, Tokyo 1648639

Japan

Telephone: 81353516460

Fax: 81353516461

Email: koike@ori.utokyo.ac.jp

Prof. Evgeny A. Kontar

P.P. Shirshov Institute of Oceanology,

Russian Academy of

Sciences

36, Nakhimovsky prospect, Moscow

117851, Russia

Telephone: 7 095 1292181

Fax: 7 095 1245983

Email: ekontar@ocean.fsu.edu

www:

http://www.jhu.edu/scor/wg112front.ht

m

http://www.iugg.org/iapso/comm.html,

http://www.sio.rssi.ru/

Frauke Kraas

Department of Geography, University

of Cologne

AlbertusMagnusPlatz 50923 Kln / Cologne

Germany

Telephone: 0221 470 7050

Fax: 0221 470 4917

Email: f.kraas@unikoeln.de

www: www.geographie.unikoeln.de

Eberhard Krain Fahrenheitstr. 6 28359 Bremen

Germany

Telephone: 494212380045

Fax: 494212380030

Email: eberhard.krain@zmtbremen.de

www: www.zmtbremen.de

Dr. Gesche Krause

Center for Tropical Marine Ecology

Fahrenheitstr. 6 28359 Bremen Germany

Telephone: 49 0421 238 00 28

Fax: 49 0421 238 00 30

Email: gesche.krause@zmtbremen.de

www: www.zmtbremen.de

Dr Hartwig Kremer

Executive Officer LOICZ

NIOZ

P.O. Box 59, 1790 AB

Den Burg, Texel

Netherlands

Phone: +31-(0)222-369404 Fax: +31-(0)222-369430 Email: kremer@nioz.nl

Dr. R. Krishnamurthy

Department of Applied Geology

School of Earth Atmospheric Sciences

University of Madras

Guindy Campus, Post Bag 5327

Chennai 600025, India

Telephone: 00914422531786

Fax: 00914422352870

Email: rrkrishnamurthy@gmail.com

www:

http://www.unom.ac.in/guifackrishnam

o.html

M. Dileep Kumar

Chemical Oceanography Division National Institute of Oceanography Dona Paula, Goa 403 004, India

Telephone: 918322450450 extn. 398

Fax: 918322450602

Email: dileep@darya.nio.org

www: Nio.org

Prof. Dr. Remi Laane

P.O.Box 20907

2500 EX The Hague

The Netherlands

Telephone: 0031703114293

Fax: Email:

r.w.p.m.lane@rikz.rws.minvenw.nl

www: RIKZ.nl

Dr Yadh Labane

106 Avenue de Jugurtha,

Mutuelleville, 1002 Tunis, Tunisie

Telephone: W 00 216 71 773 400 ext

1008, M 00 216 97 409 659 Email: Labbene@meteo.tn

Christoph Lampert

Karlsplatz 13

1040 Vienna

Austria

Telephone: 43 1 5880122614

Fax: 43 1 5880122699

Email: clampert@iwag.tuwien.ac.at

www: www.iwag.tuwien.ac.at

Prof. Felino P. Lansigan

Institute of Statistics INSTAT, and The School of Environmental Science and

Management SESAM

University of the Philippines Los Baos

UPLB

College, Laguna 4031 Philippines

Telephone: 63495362381

Fax: 63495362381

Email: fpl@instat.uplb.edu.ph or

fplansigan@yahoo.com www: www.uplb.edu.ph

Goulven G. Laruelle

Department of Earth Sciences

Geochemistry

Utrecht University Faculty of

Geosciences

P.O. Box 80.021

3508 TA Utrecht

The Netherlands

Telephone: 31 30 253.3264

Fax: 31 30 253.5302

Email: g.laruelle@geo.uu.nl

Ms. Jennifer Laughlin

UNEP Regional Seas Programme

Kortenaekade 1 2518 AX The Hague The Netherlands

Telephone: +31 70 311 4478

Fax: +31 70 345 6648 Email: j.laughlin@unep.nl

Gregor Laumann

International Human Dimensions Programme on Global Environmental

Change IHDP WalterFlexStr. 3 53113 Bonn Germany

Telephone: 49 228 73 49 56

Fax: 49 228 73 90 54

Email: Laumann.ihdp@unibonn.de

www: www.ihdp.org

Martin Le Tissier P.O. Box 59

1790 AB, Den Burg, Texel

The Netherlands

Telephone: 310222369404/403

Fax: 310222369430 Email: tissier@nioz.nl www: www.loicz.org

Carlos H. Lechuga Deveze

Mar Bermejo 195

La Paz, Baja California Sur

Mexico

Telephone: 52 612 123 84 23

Fax: 52 612 125 47 10

Email: clechuga@cibnor.mx www: http://www.cibnor.mx

Peter Lengyel

Calea Plevnei 61, Bucharest, Romania

Home address:

Peter Lengyel, Sighetu Marmatiei,

cartier 1 Mai, 7/11, Maramures, Romania

Telephone: 40722 459 119

Fax: 4021 311 26 44

Email: lengyelpeter@yahoo.com Cc:

pronatura@ccs.ro

www: www.pronatura.ro

Katharina Licht

Research Technology Centre

Westcoast Hafentrn 1 25761 Bsum Germany

Telephone: 49 04834 / 604215

Fax: 49 04834 / 604299

Email: licht@ftzwest.unikiel.de www: www.coastalfutures.de

Han Lindeboom Postbox 167

1790 AD Den Burg The Netherlands

Telephone: 31 0222369738

Fax: 31 0222319235

Email: Han.lindeboom@wur.nl

Ms. Iozefina Lipan

UNDP-GEF Black Sea Ecosystem

Recovery Project

Project Implementation Unit

Dolmabahce Sarayi, II. Hareket Kosku

80680 Besiktas

Istanbul Turkey

Telephone: +90.212.310 29 26 (direct), +90.212.310 29 27

+90.212.227 99 33

Email: jlipan@blacksea-

environment.org Dr. Su Mei Liu

College of Chemistry and Chemical

Engineering

Ocean University of China

5 Yushan Road, Qingdao, 266003

P. R. China

Telephone: 8653282032005

Fax: 8653282033005

Email: sumeiliu@mail.ouc.edu.cn

KK Liu

Institute of Hydrological Sciences National Central University Jhongli, Taoyuan 32001 Taiwan, Rep. of China

Telephone: 88634223354

Fax: 88634222894

Email: kkliu@cc.ncu.edu.tw www: www.ncu.edu.tw/kkliu/ Jose Lucas Perez Llorens Departamento de Ecologa

Facultad de Ciencias del Mar y

Ambientales

Universidad de Cdiz Apartado, num. 40 11510 Puerto Real

Cadiz Spain

Telephone: 34956016026

Fax: 34956016019

Email: joselucas.perez@uca.es

www:

http://www2.uca.es/grupinvest/ecosista cuaticos/componentes/PersonalEDEA/

JLPLMainesp.htm

N Loeser

Email: nardine.loeser@io-

warnemuende.de

Dr. Vitaly Lystsov

Russian Research Centre

Kurchatov Institute

Ploshchad' akademika Kurchatova 46,

123182 Moscow, Russia

Telephone: +7 095 196 6328 (Hse)

Email: vitalil@pike.pike.ru

Stefanie Maack

Email: maack@euccd.de www: www.euccd.de

Xavier Durrieu de Madron

CEFREM

CNRS University of Perpignan

52 Avenue Paul Alduy

66860 Perpignan cedex France Telephone: 33 4 68 66 22 48

Fax: 33 4 68 66 20 96

Email: demadron@univperp.fr

www: http://www.univperp.fr/cefrem/

Marcel Marchand

P.o. Box 177

2600 MH Delft

The Netherlands

Telephone: 31 15 285 8558

Fax: 31 15 285 8710

Email: marcel.marchand@wldelft.nl

www: www.wldelft.nl

Jose Mariscal Romero

Gomez Farias 86

San PatricioMelaque, Jalisco

CP 48980 Mxico

Telephone: 315 355 63 30

Fax: 315 355 63 31

Email:

mariscal@costera.melaque.udg.mx

www: http://costera.melaque.udg.mx

Dr. Marcia Marques

Rio de Janeiro State University UERJ

Rua São Francisco Xavier, 524,

CEP 20559-900 Maracanã, Rio de

Janeiro, RJ, Brazil

Telephone: +55 21 8124 2382

Email: marcia@marques.pro.br

Bruce A. Maxwell

500 College Ave

Swarthmore College

Swarthmore, PA 19081 USA

Telephone: 6103288081

Email: maxwell@swarthmore.edu

www: http://palantir.swarthmore.edu

Michael McClain

Department of Environmental Studies

Florida International University

Miami, Florida 33199 USA

Telephone: 13053486826

Fax: 13053486137

Email: michael.mcclain@fiu.edu

www: http://www.fiu.edu/mcclainm

William J. McConnell

Land Use and Cover Change Project

Indiana University, SB 331 Bloomington, IN 47405-7100

Telephone: +1 (812) 856-5320

Fax: +1 (812) 855-3000

Email: wjmcconn@indiana.edu

Dr Loraine McFadden

Flood Hazard Research Centre Enfield

Middlesex

United Kingdom

Email: L.McFadden@mdx.ac.uk

Prof Roger McLean

School of Physical, Environmental and

Mathematical Sciences

UNSW @ ADFA

Canberra, ACT 2600

Australia

Telephone: +61 2 62688311

Fax: +61 2 62688017

Email: r.mclean@adfa.edu.au

Prof. Laurence Mee

Professor of Marine and Coastal Policy

Associate Head (Research)

School of Earth, Ocean and

Environmntal Sciences

University of Plymouth

United Kingdom

Telephone: +44-1752 233719

Fax: +44-1752 233039

E-mail: lmee@plymouth.ac.uk

www.ims.plym.ac.uk/marine-policy

Msc. Ursula Mendoza

Center for Marine Tropical Ecology

Fahrenheitstrasse 6 28359 Bremen

Germany

Telephone: 49 421 2380063

Fax: 49 421 2380050

Email:

ursula.mendoza@zmtbremen.de www: www.zmtbremen.de

Liana Talaue McManus

Division of Marine Affairs Policy University of Miami Rosenstiel School

of Marine

Atmospheric Science

4600 Rickenbacker Causeway, Miami,

FL 33149 USA

Telephone: 1 305 421 4760; 4085

Fax: 1 305 421 4675

Email: lmcmanus@rsmas.miami.edu

Adelina Mensah

Department of Oceanography

Fisheries

Box LG 99, Legon University of Ghana

Accra, Ghana

Telephone: 233 244 481018

Fax: 233 21 507147

Email: ammensah@ug.edu.gh

Michel Meybeck

Sisyphe

University Paris 6

Place Jussieu

75252 Paris Cedex 05 France

Telephone:

Fax: 33 1 44 27 51 25

Email: meybeck@ccr.jussieu.fr

Tanja Michler

Alfred Wegener Institute for Polar and

Marine Research AWI Am Handelshafen 12 D27570 Bremerhayen

Germany

Telephone: 24047148311949

Fax: 49047148311425

Email: tmichler@awibremerhaven.de

www:

http://www.awibremerhaven.de/People

/showtmichler

Jack Middelburg

Netherlands Institute of Ecology

NIOOKNAW

Centre for Estuarine and Marine

Ecology

Korringaweg 7

4401 NT Yerseke, The Netherlands

Telephone: 31113557476

Fax: 31113573616

Email: j.middelburg@nioo.knaw.nl

www:

http://www.nioo.knaw.nl/PPAGES/jmi

ddelburg/index.htm

Mrio MilHomens

INETI

Departamento de Geologia Marinha

Estrada da Portela, Zambujal Apartado 7586, 2721866

ALFRAGIDE PORTUGAL

Telephone: 351214705446

Fax: 351214719018

Email: mario.milhomens@ineti.pt

www.

http://www.igm.ineti.pt/departam/gmar

inha/default.htm

John Milliman

Virginia Institute of Marine Science

P.O. Box 1346 Gloucester Point Virginia 23062-1346

USA

Telephone: +1 (804) 684-7112 Email: milliman@vims.edu

Dr David Milton

CSIRO Marine and Atmospheric

Research, PO Box 120,

Cleveland 4163 QLD

AUSTRALIA

Telephone: 61 7 3826 7241

Fax: 61 7 3826 7222

Email: david.milton@csiro.au

Pedro M. S. Monteiro CSIR, PO Box 320

Stellenbosch South Africa

Email: pmonteir@csir.co.za

João Morais Deputy Director IGBP Secretariat

Royal Swedish Academy of Sciences

Box 50005

S-104 05 Stockholm

Sweden

Tel: +46-8-16-64-48 Fax: +46-8-16-64-05

Email: morais@igbp.kva.se

Olga Morozova

38 Bering street, 199397,

SaintPetersburg,

Telephone: 7 812 352 23 21

Fax: 7 812 352 26 88 Email: mozolya@mail.ru

Barbaro V. Moya

La Habana Cuba

Email: barbaromoya@yahoo.com

Dr. Nicholas Murray

06000 Nice,

France

Telephone: 0039493819105

Email: nicholasmurray@lycos.com

Rosemarie Mwaipopo

University of Dar es Salaam

Department of

Sociology/Anthropology

PO Box 35043 Dar es Salaam TANZANIA

Telephone: (255) 0744-849458 Email: Ny_lila@yahoo.com

Dr. K. Narayanan

Department of Humanities Social

Sciences

Indian Institute of Technology

Bombay

Powai, Mumbai 400076

India

Telephone: 912225767381

Fax: 912225723480

Email: knn@hss.iitb.ac.in

www: hss.iitb.ac.in

Alice Newton

IMAR

FCTGambelas Campus Universidade do Algarve

8005139 Faro Portugal

Telephone: 351 91 911 00 26

Fax: 351 289 819 403 Email: Anewton@ualg.pt

www: http://w3.ualg.pt/anewton/

Nguyen Thi Tram Anh

Nha Trang University of Fisheries

16 Ho Xuan Huong street

Nha Trang city

Khanh Hoa province

Vietnam

Email: tramanhdhts@yahoo.com

Prof. Robert Nicholls

School of Civil Engineering and the Environment and the Tyndall Centre,

University of Southampton Southampton SO17 1BJ UK Telephone: 442380594139

Fax: 442380677519

Email: r.j.nicholls@soton.ac.uk

Dr. Miroslav Nitishinsky

38 Bering str. St. Petersburg Russia, 199397

Telephone: 79216346290

Fax: 78123522688

Email: MNitishinsky@mail.ru

www: www.aari.nw.ru

Luci Hidalgo Nunes

Instituto de Geociencias UNICAMP

CP 6152 Campinas, SP

Brasil

Telephone: 5519 37884573

Fax: 5519 32891097

Email: luci@ige.unicamp.br

www: ige.unicamp.br Departamento

de Geografia

Corinna Nunneri

FTZ Büsum Hafentörn 1

D-25761 Büsum

Germany

Email: nunneri@ftz-west.uni-kiel.de

Ochieng Ogodo,

Biosafety News,

Box 9868,

00100Mairobi Kenya

Telephone: 254 722 36 94 48 Email: ogodo16@hotmail.com www: biosafetynews.com

Prof. Stephen Olsen

Director, Coastal Resources Center Graduate School of Oceanography

University of Rhode Island, NarragansettBay Campus Narragansett, RI 02882, USA Telephone: (401) 874-6224

Fax: (401) 789-4670

E-mail: <u>olsenuri@gso.uri.edu</u>

Dr Melckzedeck K. Osore

Western Indian Ocean Marine Science

Association

P. O. Box 3298

Zanzibar - Tanzania

+255 24 2233472

+255 24 2233852

mosore@wiomsa.org

www.wiomsa.org

Dr. Winfried Osthorst

University of Bremen, Research Centre

Sustainability

EnriqueSchmidtStrae 7 SFG

D28359 Bremen

Telephone: 49421535729

Email: Osthorst@arcor.de

www: www.artec.unibremen.de

Dr Elena Ostrovskaya

Caspian Marine Scientific and

Research Center

Ulitsa Shiryaeva, 14

414045, Astrakhan

Russia

Telephone: 7 8512 303440

Fax: 7 8512 301163

Email: eostrovskaya@mail.ru,

kaspmniz@astranet.ru

www: http:/caspianmonitoring.ru

Jozef M. Pacyna P.O.Box 100

2027 Kjeller

2028 Norway

Telephone: 47 63898155

Fax: 47 63898050

Email: jp@nilu.no
www: www.nilu.no

John Parslow

CSIRO Marine and Atmospheric

Research

GPO Box 1538

Hobart 7001

Tasmania, Australia.

Telephone: 61 3 62 325202

Fax: 61 3 62 325123

Email: john.parslow@csiro.au

www: http://www.marine.csiro.au/

Ms Maike Paul

Ulenloch 6

37124 Rosdorf

Germany

Telephone: 4917627 15 47 51

Email: maikepaul@web.de

Gerardo M. E. Perillo

CC 804

B8000FWB Baha Blanca

Argentina

Telephone: 542914861112/1519

Fax: 542914861112/1519

Email: perillo@criba.edu.ar

www: iado.criba.edu.ar

Renzo Perissinotto

School of Biological Conservation

Sciences

University of KwaZuluNatal

Howard College Campus, G. Campbell

Building
Durban 4041

Telephone: 27 031 2601194

Fax: 27 031 2602029

Email: perissinottor@ukzn.ac.za

Alan Pickaver

EUCC

Kustvereniging (EUCC)

Postbus 11232 2301 EE Leiden

Telephone: 071-5122900

Fax: 071-5124069

Email: a.pickaver@eucc.net

Tipparat Pongthanapanich

Department of Environmental and

Business Economics

Centre for Fisheries Aquaculture Management Economics FAME

University of Southern Denmark SDU

Niels Bohrs Vej 9, DK6700 Esbjerg,

Denmark

Telephone: 45 65504151

Fax: 4565501091

Email: tpo@sam.sdu.dk

Catherine Poulton

British Geological Survey Kingsley Dunham Centre

Keyworth

Nottingham NG12 5GG

UK

Telephone: 0115 936 3049

Fax: 0115 936 3460

Email: cpoulton@bgs.ac.uk

www: www.bgs.ac.uk

M. Bala Krishna Prasad

School of Environmental Sciences

Jawaharlal Nehru University

New Delhi 110 067, India Telephone: 911126704314

Email: prasadmbk@yahoo.co.in

Ricardo Prego

Instituto de Investigaciones Marinas

CSIC

Eduardo Cabello, 6

36208 Vigo

Spain

Telephone: 34 986 231 930 ext. 140

Fax: 34 986 292 762

Email: prego@iim.csic.es

www: http://www.iim.csic.es/

Theo Prins

PO Box 8039

4330 EA Middelburg

The Netherlands

Telephone: 31 118 672285

Fax: 31 118 651046

Email: t.prins@rikz.rws.minvenw.nl

www: www.rikz.nl

Nancy Rabalais

Louisiana Universities Marine

Consoritum 8124 Hwy. 56

Chauvin, LA 70344 USA

Telephone: 9858512836

Fax: 9858512874

Email: nrabalais@lumcon.edu

www: www.lumcon.edu

Dr. Christophe Rabouille

Laboratoire des Sciences du Climat et

de l'Environnement

Unit Mixte de Recherche CNRSCEA

Domaine du CNRS Bat 12

Avenue de la Terrasse

Tivende de la Terrasse

F91198 GifsurYvette France Telephone: Tel:33169.82.35.30

Fax: Fax:33169.82.35.68

Email: rabouill@lsce.cnrsgif.fr

Volker Rachold

Alfred Wegener Institute, Research

Unit Potsdam

Telegrafenberg A43

14473 Potsdam

Germany

Telephone: 493312882174

Fax: 493312882137

Email: vrachold@awipotsdam.de www: www.awipotsdam.de/acd

Olivier Radakovitch

CEREGE

Europole de l arbois BP 80

13545 Aix en Provence France

Telephone: 4 42 97 15 80

Fax: 4 42 97 15 95

Email: radakovitch@cerege.fr

www: Cerege.fr

Tim Radford

The Guardian.

119 Farringdon Road,

London EC1R 3ER

Telephone: +44 (0)207 239 9604

Fax: +44 (0)207 713 4154

Email: Tim.radford@guardian.co.uk

Ivonne M. Radjawane

Oceanographic Program Study

Department of Geophysics and

Meteorology

Bandung Institute of Technology

LabTek XI, 1st floor

Jalan Ganesha 10

Bandung 40132

Indonesia

Telephone: 62222505253

Fax: 62222534139

Email: ivonnemr@geoph.itb.ac.id

Dr. M. Rafiqul Islam

Team Leader

Program Development Office,

Integrated Coastal Zone Management

Road 22, House 4/A, Gulshan 1, Dhaka 1212, BANGLADESH

Telephone: 8802 989 2787

Fax: 8802 882 6614

Email: rafiq@iczmpbd.org

www: www.iczmpbangladesh.org

Dr. A. Atiq Rahman

Executive Director

Bangladesh Centre for Advanced

Studies BCAS

House No. 10, Road No. 16A, Gulshan

1

Dhaka 1212, Bangladesh

Telephone: Dir: 8802 8858049

PABX: 8802 8851237, 8851986,

8852217, 8852904

Ext. 109 101

Fax: 8802 8851417

Email: atiq.rahman@bcas.net

www: www.bcas.net

R. Ramesh

Institute for Ocean Management

Anna University

Chennai 600 025

India

Email: rramesh_au@hotmail.com

John Rapaglia

195 Endeavour Hall

Marine Sciences Research Center

SUNY Stony Brook

Stony Brook, NY 11794, USA

Telephone: 001 631 632 3704

Email: jrapagli@ic.sunysb.edu

Arturas Razinkovas

Coastal Research Planning Institute

Klaipeda University Manto 84, Klaipeda

Lithuania

Telephone: 370 46 398844

Fax: 370 46 398845 Email: art@corpi.ku.lt www: www.corpi.ku.lt

Luis Rebêlo

INETI

Departamento de Geologia Marinha

Estrada da Portela, Zambujal

Apartado 7586

2721-866 Alfragide

Portugal

Telephone: 351-21-4705533

Fax: 351-21-4719018 Email: luis.rebelo@ineti.pt

www:

http://www.igm.ineti.pt/departam/gmar

inha/default.htm

Juan Restrepo EAFIT University

AA 3300, Medelln, Colombia

Telephone: 5742619329

Fax: 5742664284

Email: jdrestre@eafit.edu.co www: www.eafit.edu.co

Catherine Rigg P.O. Box 34 Tlell, BC

V0T 1Y0

Telephone: 250 5578515 Email: crigg@sfu.ca Mr. Alejandro Robles Executive President Noroeste Sustenable

11348 Vista Sorrento Parkway, # K-

206

San Diego, CA 92130 USA

Email: a.robles@conservation.org

Associate Professor Eva Roth University of Southern Denmark

Niels Bohrsvej 9 DK6700 Esbjerg

Denmark

Telephone: 45 65 50 41 86 Direct

Fax: 45 65 50 10 91 Email: er@sam.sdu.dk

www: http://www.sam.sdu.dk/ansat/er

Peter C Rothlisberg

CSIRO Cleveland Laboratories

PO Box 120

Cleveland, Old 4163

Australia

Telephone: 61 7 3826 7225

Email: peter.rothlisberg@csiro.au

Nicoletta Ruggieri

Dipartimento per lo Studio del Territorio e delle sue Risorse

DIP.TE.RIS. Universit degli Studi di

Genova, C.Europa 26, Genova, Italy

Telephone: 00390103538583

Fax: 00390103538140

Email: ruggieri@dipteris.unige.it

Prof. Jrgen Rulloeketter

Institute of Chemistry and Biology of

the Marine Environment

ICBM

Carl von Ossietzky University of

Oldenburg

P.O. Box 2503

D26111 Oldenburg

Germany

Telephone: 49 441 7985359

Fax: 49 441 7983404

Email: j.rullkoetter@icbm.de

www: www.icbm.de/ogc

Ms Susanne Rupp

School of Civil Engineering and the

Environment

University of Southampton

Highfield

Southampton

SO17 1BJ

United Kingdom

Telephone: 044 2380593713

Email: sgr@soton.ac.uk

Dr. Renison Ruwa

Kenya Marine and Fisheries Research

Institute

P.O Box 81651, Mombasa

Telephone: +254 733 700 572

Fax: +254 41 475 157

Email: kruwa@kmfri.co.ke

Letizia Sabetta

Department of Biological and

Environmental Sciences and

Technologies

University of Lecce

Ecotekne, SP Lecce Monteroni, 73100

Lecce

Telephone: 39 832 298606

Fax: 39 832 298722

Email: letizia.sabetta@unile.it

Jeff Safran

National Geophysical Data Center

325 Broadway E/GC2

Boulder, Colorado 80305

USA

Telephone: 303 4976603

Fax: 303 4976513

Email: jeff.safran@noaa.gov

www: http://dmsp.ngdc.noaa.gov

Yoshiki Saito

Central 7, Higashi 111, Tsukuba,

Ibaraki 3058567, Japan Telephone: 81298613895

Fax: 81298613747

Email: Yoshiki.saito@aist.go.jp

www:

http://staff.aist.go.jp/yoshiki.saito/

Joe Salisbury

University of New Hampshire

211 Morse Hall

Durham, NH USA 03824

Telephone: 6038620849

Email: joe.salisbury@unh.edu

W. Salomons

Free University Amsterdam

Institute for Environmental Studies

Amsterdam

the Netherlands

Email: wim.salomons@home.nl

Dr. Jayampathy Samarakoon

Central Environmental Authority

104 Robert Gunawardena Mawatha

Battaramulla, Sri Lanka

Telephone: +94 11 287 2300

Fax: +94 11 287 2300

Email: samarakoon@eureka.lk

M. G. Sarwar LUMES

Lund University
PO Box 170

SE 221 00 LUND

Sweden

Telephone: 46 46 222 0470

Fax: 46 46 222 0475

Email: sarwaredu@yahoo.co.in www: http://www.lumes.lu.se

Dr. Anja Scheffers

Email: Anja.Scheffers@uniessen.de

Sybil Seitzinger Rutgers University

Institute of Marine and Coastal

Sciences

71 Dudley Rd

New Brunswick, NJ 08901 USA

Telephone: 17329326555 x342

Fax: 17329321792

Email: Sybil@marine.rutgers.edu

www:

www.marine.rutgers.edu/BGC/home.ht

m

Agnieszka Sekscinska

Social Science Research Center Berlin

WZB

Reichpietschufer 50, D10785 Berlin

Germany

Telephone: 49 30 25491 267

Fax: 49 30 25491 219

Email: sekscinska@wzberlin.de www: wzberlin.de; ikzmoder.de

Yohanna W. Shaghude Institute of Marine Sciences

P.O. Box 668 Zanzibar

Email: shaghude@ims.udsm.ac.tz

Prof. Sayed Hassan Sharaf El din

Oceanography Department

Faculty of Science

Alexandria University, Alex. EGYPT

.

Telephone: 002035432704

Fax: 002035435956

Email: ecosalex@yahoo.com www: www.AJLO.com

Dr Keshav Prasad Sharma

Department of Hydrology and

Meteorology Babarmahal

PO Box 406, Kathmandu, Nepal

Telephone: 97714248808

Fax: 97714262348

Email: kpspoudel@yahoo.com

www: www.geocities.com/kpspoudel/

E. Shumilin

CICIMAR-IPN

Av. IPN s/n, Col. Playa Palo de Santa

Rita

Apdo. Postal 592

La Paz, Baja California Sur, 23096

Mexico

Email: eshumili@ipn.mx

Jaap S. Sinninghe Damst

Royal NIOZ PO Box 59

1790 AB Den Burg The Netherlands

Telephone: 31222369550

Fax: 31222319674 Email: damste@nioz.nl

www:

http://www.nioz.nl/nioznl/2384a08d59

9a5b4c78929309e5b38f7a.php

Dr. Caroline P. Slomp

Department of Earth Sciences

Geochemistry

Faculty of Geosciences, Utrecht

University

Budapestlaan 4, 3584 CD Utrecht, the

Netherlands

Telephone: 310302535514

Fax: 310302535302 Email: slomp@geo.uu.nl

www:

http://www.geo.uu.nl/Research/Geoche

mistry/CSlomp.html

Maria Snoussi

University Mohamed V, Faculty of

Sciences

Department of Erath Sciences Avenue Ibn Battota, B.P. 1014

Rabat, Morocco

Telephone: 212 37 771957

Fax: 212 37 771957

Email: masnoussi@yahoo.fr

snoussi@fsrac.ma www: www.fsr.ac.ma Dr Milika Naqasima-Sobey Marine Studies Programme University of the South Pacific

PO Box 1168

Suva FIJI

Telephone: (679) 323 2947

Fax: (679) 3231513

Email: sobey_m@usp.ac.fj

Cosimo Solidoro

Email: csolidoro@inogs.it

Federico Spagnoli

ISMARCNR, Via Pola, 4

71010 Lesina

Italy

Telephone: 390882992702

Fax: 390882991352

Email:

Federico.spagnoli@fg.ismar.cnr.it

Mark Spalding

93 Centre Drive

Newmarket CB8 8AW

UK

Telephone: 44 1638 661961 Email: mspalding@tnc.org

www: nature.org

Dr. Joanna Staneva

Junior Research Group IMPULSE ICBM University of Oldenburg

P.B. 2503 26111 Oldenburg Germany

Telephone: 494417983635

Fax: 494417983404

Email: jstaneva@icbm.de

www: http://www.icbm.de/impulse

John Stanturf

Southern Research Station

320 Green St.

Athens, GA 30602

Telephone: 001 706 559 4316

Fax: 001 706 559 4317

Email: Drdirtms@yahoo.com,

jstanturf@fs.fed.us

www:

www.srs.fs.usda.gov/disturbance

R. Stevens

Department of Earth Sciences

Göteborg University

Box 460

40530 Göteborg

Sweden

Email: stevens@geo.gu.se

Dennis Swaney

Dept of Ecology Evolutionary Biology

Corson Hall

Cornell University

Ithaca, NY 14853 USA

Telephone: 16072553572 Email: dps1@cornell.edu

James P.M. Syvitski

Environmental Computation and

Imaging Facility

INSTAAR

University of Colorado

Boulder CO, 80309-0450

USA

Email: james.Syvitski@colorado.edu

Prof. Claudio Szlafsztein

Department of Geology, Center of

Geosciences,

University Federal of Par.

Campus Universitrio do Guam, 66075110, BelmPA, Brazil.

Telephone: 559131831426

Fax: 559132303915

Email: iosele@ufpa.br

Susan Taljaard

CSIR

P O Box 320

Stellenbosch, 7599

South Africa

Telephone: 27 21 8882494

Fax: 27 21 8882693

Email: staljaar@csir.co.za

www: www.csir.co.za

Frank Thomalla

Stockholm Environment Institute

Lilla Nygatan 1, Box 2142

103 14 Stockholm

Sweden

Email: frank.thomalla@sei.se

Helmuth Thomas

Dalhousie University

Department of Oceanography

1355 Oxford Street

Halifax, Nova Scotia

Canada, B3H 4J1

Telephone: 19024947177

Fax: 19024943877

Email: helmuth.thomas@dal.ca

www:

http://oceanography.dal.ca/oceanC263

4.html

Prof Kerry Turner

CSERGE

School of Environmental Sciences

University of East Anglia

Norwich UK

Telephone: 44 0 1603 592551

Fax: 44 0 1603 593739

Email: r.k.turner@uea.ac.uk

www:

http://www.uea.ac.uk/env/cserge/

Dr Nassos Vafeidis

Geography Building, Ground floor

University of the Aegean

University Hill Mytilene 81100

Greece

Telephone: 00493048495506 Email: a.vafeidis@ieee.org

AJ Vander Woude

University of California, Santa Cruz

A316 EMS Ocean Sciences

1156 High Street

Santa Cruz, CA 95060

Telephone: 8312399685

Email: andrea@pmc.ucsc.edu www: http://es.ucsc.edu/andrea

Dr Christopher Vane

British Geological Survey, Keyworth, Nottingham

NG12 5GG

Telephone: 44 0115 936 3017

Fax: 44 0115 3460 Email: chv@bgs.ac.uk

www: Bgs.ac.uk

Jan Vermaat

IVM

De Boelelaan 1087 1081 HV Amsterdam

The Netherlands

Telephone: 31 20 598 9596

Fax: 31 20 598 9553

Email: Jan.vermaat@ivm.falw.vu.nl

www: www.vu.nl/ivm

Pierluigi Viaroli

Parco Area delle Scienze 33

43100 Parma, Italy

Telephone: 39.0521.905683

Fax: 39.0521.905402

Email: pierluigi.viaroli@unipr.it

Susana Beatriz Vinzon

Cx Po 68508, Centro de Tecnologia

C203

21945970, Rio de Janeiro, RJ

Brazil

Telephone: 55 21 2562 8748

Fax: 55 21 2562 8748

Email: susana@peno.coppe.ufrj.br

Kelly Vodden

PO Box 214

Centreville, NL

Canada A0G 4P0

Telephone: 7096787463

Email: kmvodden@sfu.ca

A. Vorlauf

EUCC-The Coastal Union Germany

Poststr. 6, 18119 Rostock-

Warnemünde Germany

Email: anke.vorlauf@web.de

Neelanga Weragala

International Water Management

Institute IWMI P.O. Box 2075

Colombo Sri Lanka

Telephone: 94 112 787404

Fax: 94 112 786854

Email: n.weragala@cgiar.org

www: www.iwmi.org

Hester Whyte P.O. Box 59

1790 AB Den Burg, Texel

The netherlands

Telephone: 310222369404

Fax: 3100222369430 Email: loicz@nioz.nl www: www.loicz.org

Nalin Wikramanayake
Dept. of Civil Engineering
Open University of Sri Lanka

Nawala, Nugegoda

Sri Lanka

Telephone: 94112853777 ext. 472,

94777763123 Fax: 94112436858

Email: tomwiks@yahoo.com

Wilhelm Windhorst

kologieZentrum der Universitt Kiel

Olshausenstr.75 24118 Kiel

Telephone: 49 431 880 4386

Fax: 40 431 880 4083

Email:

Wwindhorst@ecology.unikiel.de

www: Ecology.unikiel.de

E. Wolanski

Australian Institute of Marine Science

PMB No. 3 Townsville MC

Q. 4810 Australia

Email: e.wolanski@aimes.gov.au

Dr Maureen Woodrow Dept. of Geography and Environmental Studies

Carleton University, Loeb B349

1125 Colonel By Drive Ottawa, CANANA

K1S 5B9

Telephone: 6135202600 ex 1984

Fax: 6135204301

Email: Mwoodrow@ccs.carleton.ca

www:gechs.org

Dr. Xuegong Xu

Department of Resources and Environmental Geosciences

Peking University Beijing 100871

China

Telephone: 861062767240 Fax: 861062751187

Email: xxg@urban,pku.edu.cn

Dr. Masumi Yamamuro

Institute of Geology and

Geoinformation,

Geological Survey of Japan, AIST. Tsukuba Central 7 Tsukuba 3058567

Japan

Telephone: 81298613766

Fax: 81298613766

Email: myamamuro@aist.go.jp

http://staff.aist.go.jp/myamamuro/enFo

lder/topenglish.html

Bill Young

Science Editor

IGBP Secretariat

Royal Swedish Academy of Sciences

Box 50005

S-104 05 Stockholm

Sweden

Tel: +46-8-16-64-48 Fax: +46-8-16-64-05 Email: bill@igbp.kva.se

Luca Zaggia S. Polo, 1364

Telephone: 39 041 5216896

Fax: 39 041 5216815

Email: l.zaggia@ismar.cnr.it www: www.ismar.cnr.it

D. Zanchettin

Environm. Sc. Dept. University of Venice Dorsoduro 2137 30123 Venice

Italy

Email: davidoff@unive.it

Matthias Zessner

Karlsplatz 13

1040 Vienna

Austria

Telephone: 43 1 5880122616

Fax: 43 1 5880122699

Email: mzessner@iwag.tuwien.ac.at

www: www.iwag.tuwien.ac.at