



# IcoccM'07

International Conference on Coastal Conservation and  
Management in the Atlantic and Mediterranean

22 - 26 March | Hammamet - Tunisia

## Opening Ceremony

### Room 1

**Under the patronage of his Excellency Nadhir Hamada  
Minister of Environment and Sustainable Development**

Chairperson: Mohamed Choura

**Friday, March 23, 2007 | 10:00 - 12:00 | Plenary**

### Room 1

Chairperson: José Carlos Ferreira

- Page 3** Coastal erosion sustainable management of Tunis south suburbs - Tunisia  
*Ben Haj, Mehd; Ali Torki, Mohamed; Abecasis, Carlos & Silva, Adélio*
- Page 7** National Strategy for the Coastal Zone Management of Portugal  
*Veloso Gomes, F.; Barroco, Ana; Ramos Pereira, Ana; Sousa Reis, Carlos; Calado, Helena;  
Gomes Ferreira, João; Freitas, Maria da Conceição & Biscoito, Manuel*
- Page 9** Dynamic response of natural and anthropogenic factors of the shore fringe from Hammam-Lif  
to Solyman beach (Tunisia)  
*Medhioub, Samir; Choura, Mohamed & Naifar, Fahmi*
- Page 15** Data harmonisation – why it does matter to coastal managers  
*Salman, Albert; Lucius, Irene; Ferreira, Maria & Longhorn, Roger*
- Page 17** Variability of grain sizes in a beach nourishment programme for the Danish west coast  
*Frigaard, Peter & Arne Wahl, Niels*



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Friday, March 23, 2007 | 14:30 -16:00 | Parallel Sessions A

## Room 1

Theme: Integrated Coastal Zone Management (ICZM)

Chairperson: Fernando Veloso Gomes

- Page 115**     A web-based decision support system for assisting regulatory and management processes in the sustainable exploitation of marine aggregate  
*Lassoued, Yassine & Sutton, Gerry*
- Page 119**     QualityCoast international programme for human & environment friendly coastal tourist destinations  
*Ferreira, Maria; Pickaver, Alan; O'Mahony, Cathal; Salthouse, Caroline & Fernández-Palacios, Yaiza*
- Page 121**     Setting the basis for an ICZM Plan of Action at the Moroccan province of Nador  
*Perez, Carolina; Lucius, Irene; Khattabi, Abdellatif & Fernandez, Pedro*
- Page 125**     A framework for the management of sand dune systems in Wales  
*Rhind, Peter & Jones, Rod Daoud, A.H.; Abul-Azm, A.G. & Rakha, K.A.*

## Room 2

Theme: The Sea, Coasts and Coastal Lagoons

Chairperson: Lotfi Aleya

- Page 131**     Flow simulation at Damietta using a two-dimensional finite volume hydrodynamic model  
*Daoud, A.H.; Abul-Azm, A.G. & Rakha, K.A.*
- Page 133**     Morphodynamic and sedimentologic characterization of the Kerkennah platform  
*Ghannem, Nedïa; Yaich, Chokri; Rjiba, Soumaya; Omrana, Ramzi Ben & Serbaji, Mohammed Moncef*
- Page 135**     Research and natural conservation practice at the Littoral Station of Aguda in North Portugal  
*Weber, Mike; Dias Santos, Jaime; Linhares, Elisabete & Ferreira, Ana*
- Page 139**     Performance of the Chlorophyceae *Dunaliella salina* from Sfax saltern in batch regime culture  
*Guerhazi, Wassim; Elloumi, Jannet; Ayadi, Habib; Bouaïn, Abderrahmen & Aleya, Lotfi*



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**Friday, March 23, 2007 | 16:30 - 18:10 | Parallel Sessions B**

## Room 1

Theme: Living with Erosion

Chairperson: Mohamed Soussi

- Page 207** Linkage of coastal belt sanitation to near-shore greening process through ground water fluxes induced by wetland flooding  
*Paimpillil, Joseph Sebastian; Balachandran, K.K. & Joseph, T.*
- Page 213** Similarities of coastal evolution in Vietnam and Poland; evidence upon observations and analyses  
*Różyński, Grzegorz; Pruszek, Zbigniew & Szymkiewicz, Marek*
- Page 217** Protection, fixing and evolution of bordering dunes -experimental project on beach of Mahdia - Tunisia  
*Ben Haj, Mehdi & Ali Torki, Mohamed*
- Page 221** Contribution of geographic information system (GIS) in the geomorphologic evolution of the islets of Kneiss (southern coast of Sfax, Tunisia)  
*Gargouri, Dorra; Jedoui, Younes & Montacer, Marbrouk*
- Page 233** Impact of the harbor and protective installations on the marine morphodynamics in the El Kantaoui coastline area (eastern Tunisia)  
*Gharbi, Wissem; Souissi, Radhia & Belhadj, Mehdi*

## Room 2

Theme: Miscellaneous

Chairperson: Gregorio Iglesias

- Page 57** Impacts of a coastal defence structure in the north of Portugal  
*Dias Santos, Jaime P.; Weber, Mike & Veloso Gomes, Fernando*
- Page 107** Multi-purpose marine areas: integrating mariculture in offshore wind farms  
*Michler, Tanja & Buck, Bela H.*
- Page 161** Field measurements and analysis of sea current offshore Taranto  
*Ben Meftah, M.; de Serio, F.; Mossa, M.; Petrillo, A. & Pollio, A.*
- Page 179** Development and application of three dimensional water quality model for Manzala lagoon, Egypt  
*Ahmed, Mahmoud H. & Donia, Noha*
- Page 185** Numerical model of a floating oil boom  
*Castro, A.; Iglesias, G.; Fraguela, J.A.; Sabin, J.M.; Carballo, R.; Rabuñal, J. & Taveira Pinto, F.*



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## Workshops

### Saturday, March 24, 2007 | Morning

Workshop 1 Coastal Video Monitoring

Workshop 2 Coastal Instrumentation Systems

## Technical Visit

### Saturday, March 24, 2007 | Afternoon

#### THE SOUTH TUNIS LITTORAL

*ZONE CARTOGRAPHY OF HYDRODYNAMICS*

*SHORELINE EVOLUTION AND PROTECTION STRUCTURES*

#### THE COASTAL LAGOON OF KORBA (CAP BON, TUNISIA)

*PHYSICAL PROPERTIES, HYDRODYNAMICS*

*PRESERVATION PROJECT*



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**Sunday, March 25, 2007 | 9:00 - 10:30 | Parallel Sessions C**

## **Room 1**

Theme: Integrated Coastal Zone Management (ICZM)

Chairperson: Maria Ferreira

- Page 71**      **Imperatives of the governance of marine protected areas in West Africa**  
*Failler, Pierre; van de Walle, Gilles; Carrier, Sonia; Balde, Djibril; Daim Dia, Abou & Deme, Moustapha*
- Page 75**      **Signatures of low-dimensional chaos in Hourly sea level measurements at Mariupol (Ukraine)**  
*Khokholov, Valeriy & Lukianova, Catherine*
- Page 79**      **Biodiversity and conservation, a main goal in integrated and sustainable coastal zone management in the Azores**  
*Costa, A.C. & Dionísio, M.*
- Page 83**      **Marine invertebrate contribution to coastal zone management**  
*Rodrigues, P. & Costa, A.C.*

## **Room 2**

Theme: Living with Erosion

Chairperson: Trigo Teixeira

- Survey of coastal erosion with laser bathymetry**  
*Stigermark, Carl-Johan*
- Page 231**      **The impact of hydrotechnical erections on the sea shoreline: as illustrion Palanga, Lithuania**  
*Olšauskas, Algimantas M. & Urbonienė, Ramunė Olšauskaitė*
- Page 251**      **Rubble mound breakwaters accelerating method**  
*Badripour, Hamidreza*
- Page 265**      **Some remarks on sea level variation in Portugal: a statistical analysis**  
*Alves da Silva, António & Freire, Elisabete*



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**Sunday, March 25, 2007 | 11:00 - 12:30 | Parallel Sessions D**

## **Room 1**

Theme: Living with Erosion

Chairperson: Carolina Perez

- Page 237**     **A holistic evaluation of a typical beach nourishment**  
*Margheritini, Lucia; Frigaard, Peter & Arne Wahl, Niels*
- Page 241**     **Morphological evolution of the Tabarka - Bouterfess coast**  
*Halouani, Nabila & Gueddari, Moncef*
- Page 243**     **Analysis of wave reflection at submerged breakwaters with a genetic fuzzy system**  
*Ibañez, O.; Castro, A.; Iglesias, G.; Taveira Pinto, F.; Rabuñal, J.; Dorado, J. & Carballo, R.*
- Page 255**     **Geosynthetics in protection against erosion for river and coastal banks and marine and hydraulic construction**  
*Koffler, Albert; Choura, Mohamed; Bendriss, Ahmed & Zengerink, Edwin*

## **Room 2**

Theme: Strategic Environmental Assessment in Coastal Areas

Chairperson: Yaich Chokri

- Page 23**     **Methodological approach of coastal areas, concerning typology and spatial indicators, in the context of integrated management and environmental assessment**  
*Kiousopoulos, John*
- Page 27**     **Assessing carrying capacities of coastal areas**  
*Chadenas, Céline; Pouillaude, Agnès & Pottier, Patrick*
- Page 35**     **First steps in strategic environmental assessment (SEA) adoption for coastal planning in Sicily (south Italy)**  
*Lo Curzio, Massimo; Lanza, Stefania & Randazzo, Giovanni*
- Page 61**     **The Irish sea marine aggregates initiative: contributing to strategic environmental assessment**  
*Sutton, Gerry & Lassoued, Yassine*



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Sunday, March 25, 2007 | 14:30 - 16:00 | Parallel Sessions E

## Room 1

Theme: Integrated Coastal Zone Management (ICZM)

Chairperson: Luciana das Neves

- Page [85](#) Molluscs as a tool for island conservation and management  
*Cunha, R.; Rodrigues, P. & Frias Martins, A.M.*
- Page [87](#) Application of a participatory methodology for beach management: a case study  
*Fabiano, M.; Dursi, R.; Ivaldi, R.; Marin, V. & Palmisani, F.*
- Page [91](#) Design of a socioeconomic model taking into account the environmental and socioeconomic evolution  
*Santiago, Juan M.; Baquerizo, Asunción & Losada, Miguel A.*
- Page [95](#) Management challenges on public maritime domain in small islands – Azores archipelago case study  
*Botelho, A.; Alves, F.; Calado, H.; Porteiro, J.; Quintela, A. & Moniz, A.*

## Room 2

Theme: The Sea, Coasts and Coastal Lagoons

Chairperson: Habib Ayadi

- Page [169](#) Stratification of phytoplankton community in coastal and oceanic areas in gulf of Gabès (south-eastern of Tunisia, Mediterranean sea)  
*Drira, Zaher; Hamza, Asma; Ayadi, Habib; Belhassen, Malika; Bouaïn, Abderrahmen & Aleya, Lofti*
- Page [177](#) Contribution to the valorization of the brown alga *Padina Pavonica*: cartography of the settlements and evaluation of the quantities at Cap-Zebib (Septentrional Tunisia)  
*Hanen, Ferjani; Jamel, Ksouri & Fethi, Mensi*
- Page [183](#) Geochemistry of the major elements and fluorine in the waters of the coastal Ghannouche - Gabès (gulf of Gabès): impact of phosphogypsum waste  
*Ben Amor, Rim & Gueddari, Moncef*
- Page [189](#) An artificial vision system for the analysis of oil boom performance  
*Ibañez, O.; Iglesias, G.; Castro, A.; Rabuñal, J.; Dorado, J.; Carballo, R. & Taveira Pinto, F.*



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Sunday, March 25, 2007 | 16:30 - 18:10 | Parallel Sessions F

## Room 1

Theme: Living with Erosion

Chairperson: Aurora López-Delgado

- Page [223](#) The geosynthetic challenge to improve environmental, coastal and offshore engineering applications  
*von Maubeuge, Kent P.; Coulson, John & Heerten, Georg*
- Page [225](#) Sand budget on holocene relict delta Tordera bodies and spit (Maresme coast, NW Mediterranean)  
*Serra, Jordi & Valois, Xènia*
- Page [227](#) Sedimentary dynamic study of Nabeul coast (eastern of Tunisia)  
*Turki, Imen; Souissi, Radhia; Medina, Raul; Castanedo, Sonia; Souissi, Foued & Belhadj, Mehdi*
- Page [247](#) Modelling of coastline evolution: the extension of port of Figueira da Foz sheltering works (Portugal)  
*Trigo Teixeira, António*

## Room 2

Theme: The Sea, Coasts and Coastal Lagoons

Chairperson: Mahmoud Moussa

- Page [143](#) Effects of infauna harvesting on tidal flats of a coastal lagoon (Ria Formosa - Portugal): implications on nitrogen and phosphorus dynamics  
*Falcão, M.; Caetano, M.; Serpa, D. & Vale, C.*
- Page [193](#) Numerical model of the ria de Muros (NW Spain)  
*Carballo, R.; Iglesias, G.; Castro, A.; de Blas, A.; Suarez, A. & Cremades, J.*
- Page [201](#) Spatiotemporal variability of nutrients in the lagoon El Meleh of Slimene (NE of Tunisia)  
*Ben Ahmed, Rabiâ*
- Page [203](#) Monitoring study of stranded cetaceans along the north coast of Tunisia  
*Attia El Hili, H.; Ben Salah, C.; Ayari, W.; Ben Amor, N. & Mraouna, R.*





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## Monday, March 26, 2007 | 9:00 -10:30 | Parallel Sessions G

### Room 1

Theme: Integrated Coastal Zone Management (ICZM)

Chairperson: Giovanni Randazzo

- Page 99**      **Waste management at Azores islands: challenges and opportunities**  
*Brito, A.G.; Nogueira, R. & Cunha, R.*
- Page 103**      **Camargue, stakes land, ideal candidate for integrated coastal zone management**  
*Heurtefeux, Hugues & Lanzellotti, Provence*
- Page 111**      **Long-term principle conception for development of integrated coastal zone management**  
*Vitkienė, Elena*

### Room 2

Theme: Miscellaneous

Chairperson: Ameur Ouslati

- Page 43**      **Management of freshwater releases to Ichkeul Lake**  
*Djebbi, Mohamed; Chakroun, Hedja & Elloumi, Marie-José*
- Page 47**      **Ciliated protozoan communities and water quality in the Sfax area (Tunisia), Mediterranean sea**  
*Elloumi, Jannet; Guermazi, Wassim; Ayadi, Habib; Tayari, Noura; Bouaïn, Abderrahmen & Aleya, Lotfi*
- Page 53**      **A multiscale approach for an environmentally sound management of small marinas**  
*Fabiano, M.; de Vito, P.; Laconi, P.; Marin, V.; Moreno, M.; Paoli, C.; Vassalo, P. & Vezzulli, L.*
- Page 197**      **Some potentially toxic species within the algal community of the Bizerte lagoon**  
*Bouchouicha, Donia; Sakka Hlaili, Asma; Sahraoui, Inès & Hadj Mabrouk, Hassine*



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Monday, March 26, 2007 | 11:00 - 12:30 | Parallel Sessions H

## Room 1

Theme: Miscellaneous

Chairperson: Aurora López-Delgado

- Page [41](#) Effects of copper and PP'DDE on catalase activity measured in the mussel (*Mytilus Galloprovincialis*)  
*Khessiba-Jabeur, Asma; Gnassia-Barelli, Mauricette; Roméo, Michèle & Aïssa, Patricia*
- Page [165](#) Short-term distribution of the viroplankton along salinity  
*Elloumi, Jannet; Guermazi, Wassim; Ayadi, Habib; Carrias, Jean-François; Sime-Ngando, Télesphore; Boukhris, Mekki & Bouaïn, Abderrahmen*
- Page [209](#) Computation of the stability of the beach nourishment of Taparura project using sediment compatibility and physical coastal process approaches  
*Medhioub, Samir; Chaabouni, Ridha & Hentati, Riadh*
- Page [235](#) Morphological and sedimentological study of the northwestern and southeastern coasts of Jerba island  
*Gzam, Maher; Souissi, Radhia; Turki, Imen & Choura, Mohamed*

## Room 2

Theme: The Sea, Coasts and Coastal Lagoons

Chairperson: Mohamed Soussi

- Page [147](#) Variation of the accumulation of cadmium in hexaplex trunculus (Gastropoda: muricidae) of Bizerte lagoon (north Tunisia) as a function of season and organ  
*Gharbi-Bouraoui, Samia; Dellali, Mohamed; Roméo, Michèle; Gnassia Barelli, Mauricette & Aïssa, Patricia*
- Page [151](#) Sedimentation and paleoenvironment of Paralic system of Skhira-Gabès coastal: Sebkha Gattiate (the gulf of Gabès) Tunisia  
*Gargouri ben Ayed, Z.; Abichoux, H.; Oueslati, A. & Zouari, K.*
- Page [153](#) Inverse modeling of carbon flows in the planktonic food web in a coastal lagoon (Bizerte lagoon, north Tunisia)  
*Grami, Boutheïna; Sakka Hlaili, Asma; Niquil, Nathalie & Mabrouk Hadj, Hassine*
- Page [157](#) Identification of the Pseudo-nitzschia delicatissima in the northern Tunisian waters (Bizerte lagoon)  
*Sahraoui, Inès; Sakka Hlaili, Asma; Bouchouicha, Donia & Mabrouk Hadj, Hassine*



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## Poster Presentations

Friday, March 23, 2007 | 12:00 - 12:30 | Poster Exhibition

- Page [31](#) Environmental impact associated to a beach nourishment: a case study  
*Herrera, A.; Gomez-Pina, G.; Fages, L. & Muñoz-Perez, J.J.*
- Page [173](#) Biology and habitat use patterns of gobius paganellus (pisces, gobiidae) in two littoral ones (protected area and non-protected area) in the north eastern Atlantic  
*Velasco, E.; Gómez-Cama, M.C. & Soriguer, M.C.*
- Page [271](#) West African marine and coastal protected areas: is there still a room for indigenous knowledge?  
*Carrier, Sonia; Failler, Pierre; van de Walle, Gilles; Balde, Djibril; Daim Dia, Abou & Deme, Moustapha*
- Page [275](#) Response of offshore nematode communities to increasing levels of hydrocarbon contamination  
*Amor, Hedfi; Ezzeddine, Mahmoudi; Fehmi, Boufahja; Hamouda, Beyrem & Aïssa, Patricia*
- Page [279](#) Temperature records and dinoflagellate assemblages of the western Mediterranean sea during the last 2000 years  
*Rouis Zargouni, Imene; Essallemi, Latifa; Kallel, Néjib; Turon, Jean-Louis; Londeix, Laurent; Labeyrie, Laurent & Duplessy, Jean-Claude*
- Page [281](#) The defence of the natural and cultural heritage - the contribute of GIS to information management  
*Pedrosa, A.; Freitas, C. & Pires, J.*