

# ECCLima

## Estuaries in a Changing Climate

5 - 8 April 2011, Porto, Portugal



ciimar



International Congress within the frame of the "Managing Effects of Global Climate on Estuarine Biodiversity and Productivity" project

### ECCLima Programme

#### Tuesday 5th April

16:30	17:30	<b>Welcome reception</b>
16:00	18:00	Secretariat opening

#### Wednesday 6th April

9:00	10:00	Secretariat opening		
10:00	11:00	Welcome coffee		
11:00	12:00	Opening session	With the presence of the Ambassador of Norway and the Dean of the University of Porto	
12:00	12:30	<b>Carlo Heip</b>	Climate change impacts on European estuaries and coastal seas	6
12:30	13:30	Lunch		
13:30	14:00	Poster Session		
14:00	14:30	<b>Torstein Pedersen</b>	Latitudinal patterns in estuarine ecosystem characteristics investigated by mass balance modeling	8
14:30	14:50	Slije Ramsvatn	Comparing ecosystem structure and trophic interactions of two high-latitude fjord ecosystems modeled using ECOPATH	43
14:50	15:10	Ester Dias	Natural born indicators: great cormorant <i>Phalacrocorax carbo</i> (Aves: Phalacrocoracidae) monitor ichthyofauna variation linked to river runoff	41
15:10	15:30	Allan Souza	Temperature effects on the agonistic behaviour of a widely distributed key-species of temperate estuarine systems	49
15:30	16:00	Coffee break		

16:00	16:30	<b>Henk van der Veer</b>	Long term changes in the fish community of the western Wadden Sea; how important is climate change?	9
16:30	16:50	Pedro Duarte	Long-term trends in estuarine waters of northern Portugal	17
16:50	17:10	Jeroen Jansen	<i>Macoma balthica</i> in a warming environment, more than 30 years of research	50
17:10	17:30	Guillem Chust	Vulnerability of intertidal species and communities under sea level rise scenarios in the Basque estuaries	16

#### Thursday 7th April

9:00	9:30	<b>Ronaldo Sousa</b>	Invasive species and extreme climatic events: a dangerous cocktail?	75
9:30	9:50	Martina Illari	Influence of the invasive Asian clam <i>Corbicula fluminea</i> on the associated macrozoobenthic assemblages	74
9:50	10:10	Eva Cacabelos	Comparison of the assemblage functioning of estuary systems dominated by the seagrass <i>Zostera noltii</i> versus the invasive drift alga <i>Gracilaria vermiculophylla</i>	73
10:15	11:15	Coffee break		
11:20	11:50	<b>Audrey Geffen</b>	Imprints of recent climate variations: coastal cod fisheries in the middle ages	3
11:50	12:10	Catarina Vinagre	Contrasting impacts of climate change across seasons: effects on flatfish cohorts	53
12:10	12:30	Alrenice Castro	Global warming and the future for species	15
12:30	13:30	Lunch		
13:30	14:00	Poster session		
14:00	14:30	<b>Aleksandra Lewandowska</b>	Trophic interactions in marine pelagic ecosystem under recent climate change	7
14:30	14:50	Vânia Freitas	Climate-induced changes in estuarine predator-prey systems: a bioenergetic approach	42
14:50	15:10	Nabeel Alikunh	Food web analysis in estuarine and island mangrove ecosystems of south India: A dual isotope approach	40
15:10	15:30	Catarina Vinagre	Food web structure and habitat connectivity in fish estuarine nurseries - impact of river flow variability	44
15:30	16:00	Coffee break		
16:00	16:30	<b>Donald Boesh</b>	Adaptation to climate change impacts in the Chesapeake Bay, USA	3

16:30	16:50	João Pedro Costa	Introducing the agenda of climate adaptation in urban areas. The Lisbon case	28
16:50	17:10	Filomena Martins	The national strategy for Integrated Coastal Zone Management and the adaptation to climate change	31
17:10	17:30	A. G. Bhole	Managing effects of natural geo-disasters on estuarine biodiversity: Lessons from South Asian tsunami and extreme water related disasters along Indian coast	27

#### Friday 8th April

9:00	9:30	<b>Irene Martins</b>	Long-term predictions of global warming scenarios in mesotidal estuaries: the case of opportunistic macroalgae versus nutrient loading	18
9:30	9:50	Allan Souza	Population dynamics of the common goby <i>Pomatoschistus microps</i> (Actinopterygii: Gobiidae) in Minho estuary, NW Iberian Peninsula	39
9:50	10:10	Flavia Mochel	Ecophysiology of mangrove snail <i>Melampus coffeus</i> Linnaeus, 1758 and the mangrove periwinkle <i>Littoraria angulifera</i> Lamarck, 1822 submitted to dehydration under laboratory conditions in the Amazonian Coast, Maranhão State, Brasil	51
10:15	11:15	Coffee break		
11:20	11:50	Ana Pereira	Phylogeographical analysis reveals multiple conservation units in brook lampreys <i>Lampetra planeri</i> of Iberian streams	66
11:50	12:10	João Machado	Signatures of positive selection in the functional diversification of HPX and WAP65	63
12:10	12:30	Cristiana Moreira	Phylogeography of the toxic cyanobacterium <i>Microcystis aeruginosa</i>	65
12:30	13:30	Lunch		
13:30	14:00	Poster session		
14:00	14:30	<b>Agostinho Antunes</b>	The role of genetics in environmental adaptation	61
14:30	14:50	Rui Borges	Adaptive Evolution of Melanopsin Photoreceptors to Environmental Changes	62
14:50	15:10	Eduardo Maldonado	IMPACT: a program to assess molecular adaptation to ecological and environmental changes	64
15:10	15:30	Ending session		
15:30	16:00	Ending Coffee		

## Poster Session

L Guilhermino	SIGNAL - Effects of pollution on estuarine zooplankton- zooplanktivorous fish ecological interactions in relation to climate changes	19
L Luis and L Guilhermino	Letal and sub-lethal effects of naphtalene and pyrene on common prawn <i>Palaemon serratus</i> a key species in estuaries and coastal areas of the NW Portugal	20
M Mota <i>et al</i>	Climate changes: keeping services, replacing intervenients	21
C Oliveira <i>et al</i>	Answers of biomarkers to long-term exposure to environmental contamination: a preliminar comparison of wild populations of the invasive species <i>Corbicula fluminea</i> from Minho and Lima rivers estuaries	22
LR Vieira <i>et al</i>	Effects of polycyclic aromatic hydrocarbons on the marine micro-algae <i>Tetraselmis chuii</i> in relation to temperature variation	23
LR Vieira <i>et al</i>	A comparative survey on the variation of zooplankton communities of Minho and Lima estuaries in relation to pollution: are there already evidences of climate changes impact?	24
G Alizadeh <i>et al</i>	Using an artificial neural network to model monthly shoreline variations	33
L Bastos <i>et al</i>	Coastal monitoring	34
R Pinto <i>et al</i>	Spatial planning and adaptation to climate change in the Minho River estuary	35
AT Souza <i>et al</i>	Population dynamics of the Green crab <i>Carcinus maenas</i> (Crustacea: Portunidae) in Minho estuary, NW Iberian Peninsula	45
CF Moreira <i>et al</i>	Feeding preferences of the brown shrimp <i>Crangon crangon</i> : does food choice confirms the opportunistic feeding?	46
CA Rocha-Barreira <i>et al</i>	Latitudinal variations in reproductive biology of estuarine bivalves in the Brazilian coast	54
AA Garcia	Winter temperature fluctuation effects on starfish ( <i>Asterias rubens</i> L.) feeding rates	55
FO Ribas <i>et al</i>	Chelae dimorphism in the green crab <i>Carcinus maenas</i> (Crustacea: Portunidae): Fine-scale differences	56
AP Rodrigues <i>et al</i>	Sensitivity to salinity changes of <i>Carcinus maenas</i> populations from two northern Portuguese estuaries	57
D Almeida <i>et al</i>	Evolutionary genomics of detoxification genes in mollusks	67
C Gomes <i>et al</i>	Assessing the genetic variability of the invasive <i>Corbicula fluminea</i> in the Minho and Lima estuaries, Portugal	68
L Guilhermino	NISTRACKS - Processes influencing the invasive behaviour of the non indigenous species <i>Corbicula fluminea</i> in estuaries	69
PM Pinto <i>et al</i>	Combined effects of salinity and temperature on survival of two populations of autochthonous brine shrimp <i>Artemia parthenogenetica</i> in Portugal, Rio Maior and Aveiro saltworks	70

MI Ilarri <i>et al</i>	Massive mortality of the Asian clam <i>Corbicula fluminea</i> in a highly invaded area triggered by extreme climatic events	76
J Pascual <i>et al</i>	Influence of <i>Spartina patens</i> invasions on plant community features and C emissions along a climatic gradient in NW Galician salt marshes	77

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## ECClimate Programme at a glance

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