

## LUNDI 10 MAI / MONDAY 10 MAY

**10:00 - 12:00 PALAZZO DEL CINEMA**

### **INAUGURATION SOUS LA PRÉSIDENCE DE SAS LE PRINCE ALBERT II DE MONACO**

**10:00 – 10:15** Arrivée des officiels.

**10:15 – 10:40** Discours de bienvenue des Autorités de Vénétie introduites par le Dr. Roberto Odorico, Délégué National de l'Italie auprès de la CIESM.

**10:40 – 11:00** Adresse de S.E. Mme Stefania Prestigiacomo, Ministre de l'Environnement.

**11:00 – 12:00** Adresse présidentielle de S.A.S. le Prince Albert II de Monaco, suivie de la présentation du 39<sup>e</sup> Congrès par le Prof. Frédéric Briand, Directeur Général de la CIESM.

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**10:00 – 10:15** *Arrival of officials.*

**10:15 – 10:40** *Welcome addresses by Venetian Authorities introduced by Dr. Roberto Odorico, National Delegate of Italy to CIESM.*

**10:40 – 11:00** *Address by H.E. Stefania Prestigiacomo, Italian Minister of Environment.*

**11:00 – 12:00** *Presidential Address of H.S.H. Prince Albert II of Monaco, followed by overall presentation of 39th Congress by the Director General, Prof. Frédéric Briand.*



Les Salles de Réunion des Comités sont affectées comme suit /  
*Committee Meeting Rooms are assigned as follows:*

**C1 - Marine Geosciences**

Sala Amici

**C2 - Physics and Climate of the Ocean**

Sala Mosaici 2

**C3 - Marine Biogeochemistry**

Sala Mosaici 1

**C4 - Marine Microbiology and Biotechnology**

Sala Martinelli

**C5 - Living resources and Marine Ecosystems**

**a** - Sala delle Feste; **b** - Sala Perla

**C6 - Coastal Systems**

Sala Lido

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Nota: par courtoisie pour les autres Congressistes, l'usage des ordinateurs et téléphones portables ne sera pas autorisé dans les salles de réunion. / *Out of respect for the other Congress Participants the use of laptops, and cellphones, will not be allowed in the meeting rooms.*

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## AFTERNOON COMMITTEE SESSIONS

Ces réunions débuteront à 14:00, avec une pause café de 16:00 à 16:30. Pour des raisons de lisibilité et de contraintes d'impression, seul le nom de l'auteur qui présente la communication est indiqué.

*These sessions will take place from 2:00, with a coffee break from 4:00 to 4:30. For reasons of legibility and space constraints, only the name of the presenting author is indicated.*

### C1. Géosciences marines / Marine Geosciences

Joint session with C2 – Sala Mosaici 2 [see progr. in C2 section]

### C2. Physics and Climate of the Ocean

#### Paleoceanography

- 14:00 F.J. Jimenez-Espejo: The Levantine Intermediate Water in the westernmost Mediterranean during the last 20 ky cal BP: geochemical profiles of Manganese and redox conditions.
- 14:10 U. Mikolajewicz: Investigating the role of mechanisms leading to stagnating deep water in the Eastern Mediterranean.
- 14:20 F. Adloff: Modelling changes in Eastern Mediterranean ocean climate for the early Holocene.
- 14:30 G.J. De Lange: Basin-wide isochronous selective formation and preservation of Eastern Mediterranean sapropel S1.
- 14:40 D. Gallego Torres: Water column redox conditions during sapropel formation; comparison between sedimentary record recent analogues.
- 14:50 M. Triantaphyllou: Evidence of humid mid-Holocene in the South - Eastern Aegean Sea.
- 15:00 G. Lericolais: Arguments in favour of a Holocene rapid transgression in the Black Sea.
- 15:10 L. Vigliotti: Magnetic signature of Adriatic sediment from late glacial to present: new insights for the basin evolution.
- 15:20 L. Chen: Palynological study of climatic and oceanic variability during "roman warm period" in Eastern Mediterranean.
- 15:30 M. Goudeau: Geochemical composition of recent sediment from the SW Adriatic Sea and the Gulf of Taranto (S. Italy) compared with that of the last 400 years for one site.

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15:40 A. Leider: Core-top calibration using the lipid-based temperature proxies UK'37 and TEX86 on the Southern Italian shelf (SW Adriatic Sea, Gulf of Taranto).

16:00 – 16:30 *Coffee break*

**\*16:30 – 16:50 Committee briefing (see below)**

### **Fluxes and Budget**

16:50 R. Delfanti: Fluxes of  $^{137}\text{Cs}$  in the system Black – Marmara - North Aegean Seas.

17:00 S. Querin: Modeling carbon cycling and sequestration in the Adriatic Sea.

17:10 M. Herrmann: The case of the exceptional 2004-05 convection event.

17:20 J. Salat: Winter 2009. A new step in the Western Mediterranean transition.

17:30 P. Puig: Thick bottom nepheloid layers in the Western Mediterranean basin generated by dense shelf water cascading.

17:40 A. Palanques: Deep canyon and slope suspended sediment transport in the Western Gulf of Lions during the 2006 intense cascading period.

17:50 M. Ribó: Dense shelf water cascades in the Palamós Canyon. Comparison with the Cap de Creus Canyon.

18:00 A. Bergamasco: Process study simulations of the dense shelf water cascading into the Cap de Creus Canyon.

18:10 C. Estournel: A five-year budget of fine sediment in the Gulf of Lions: importance of intense events (floods, storms and dense water cascading).

18:20 C. Ulses: Budget of biogenic elements in the NW Mediterranean over the period 2004-2008 using a 3D physical-biogeochemical coupled model.

**16:30 – 16:50\***

### **Committee Briefing**

This important session will be held in each committee room. Two items for discussion: a) presentation of week's programme; b) candidates to the Chair will make a brief presentation of their vision for the post.

**More about Election of Committee Chairs**

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*\*For C5, this session will be held from 16:30 to 17:10 in Sala Perla.*

### C3. Biogéochimie marine / Marine Biogeochemistry

#### Vertical flux

- 14:00 F. Dulac: Aeolian dust deposition in the Western Mediterranean, and the project ChArMEX.
- 14:10 I. Bouloubassi: Biomarkers as tracers of organic carbon fluxes in the SW Black Sea: a 1-yr sediment trap experiment (SESAME project).
- 14:20 H. Zhao: PARAFAC Treatment in 3D-FQ of DOM-[M] Complexation.
- 14:30 J. Dautovic: Organic matter in the Kotor Bay, South Adriatic Sea.
- 14:40 N. Cukrov: Preliminary study of trace metals and physico-chemical parameters in water column of anchialine cave Orljak, Croatia.
- 14:50 C. Migon: Seasonal and interannual patterns of 1,000 m depth trace metals fluxes at the DYFAMED time-series station (Ligurian Sea).
- 15:00 A. Sakellari: Assessment of Zinc mobilization in coastal sediments.
- 15:10 N. Mihalopoulos: The significance of atmospheric inputs of dissolved and particulate trace metals to the Eastern Mediterranean seawater.

#### Ocean acidification

- 15:20 R. Jeffree: Future ocean acidification impacts on Mediterranean seafoods: first investigation of the economic costs.
- 15:30 A. Luchetta: Distributions of pHT, total alkalinity and CO<sub>2</sub> fugacity in the Adriatic Sea during the SESAME campaigns, winter and late summer 2008.
- 15:40 C. Cantoni: Carbonate system dynamics in the Gulf of Trieste (North Adriatic Sea).
- 15:50 E. Souvermezoglou: Total inorganic carbon and total alkalinity distribution in the Aegean Sea.

16:00 – 16:30 *Coffee break*

**\*16:30 – 16:50 Committee briefing (see p. 3)**

#### Mediterranean Precipitation Regime

- 16:50 J. Gat: The d-excess as a characteristic of the Mediterranean precipitation: a critical review.
- 17:00 S. Pfahl: Modeling stable isotope ratios in near surface water vapor in the Mediterranean: an evaluation of the Craig-Gordon model.
- 17:10 P. Vreca: Spatial and temporal variations of isotopic composition of precipitation in Slovenia.
- 17:20 M. Brencic: Characteristics of stable isotope empirical distributions in precipitation at central European Gnip station - Ljubljana, Slovenia.

17:30 Y. Travi: Influence de l'origine des masses d'air sur la composition isotopique ( $^{18}\text{O}$ ,  $^2\text{H}$ ) des précipitations en Méditerranée orientale (Mont Liban).

### C4. Marine Microbiology and Biotechnology

#### Mediterranean marine biotechnology, recent development

- 14:00 N. Rosoiu: Lipid extracts of *Mytilus galloprovincialis* (l) and *Rapana venosa* from Romanian Black Sea coast realized for pharmaceutical usages.
- 14:10 L. Galluzzi: Development of a microarray-based assay for the detection of harmful dinoflagellates.
- 14:20 E. Mollo: Molecular modeling in blue biotechnology: a cost-effective and sustainable approach to exploit Mediterranean chemical diversity.
- 14:30 F. Joux: Evaluation of pesticides toxicity using biosensors of the marine photosynthetic picoeukaryote *Ostreococcus tauri*.
- 14:40 F. Baldi: Salt marsh accretion by endogenous cyanobacteria to reduce erosion in Venice Lagoon.
- 14:50 R. Cannas: On the genetic structure of *Ruditapes decussatus* (Mollusca, Bivalvia) inferred by nuclear and mitochondrial genetic markers.

#### Marine biodiversity, potential for biotechnology development

- 15:00 M. El bour: Detection of antimicrobial activity in sponge species from Tunisian coast (central Mediterranean).
- 15:10 L. Cavas: The bio-stimulating effects of invasive *Caulerpa racemosa* var. *cylindracea* extract on *Oryza sativa*.
- 15:20 M. Ben Mansour: Highly sulfated dermatan sulfate from the skin of the ray *Raja montagui*: anticoagulant activity and mechanism of action.
- 15:30 L. Ktari: *Ulva intestinalis* associated bacteria: molecular identification and antimicrobial potential.
- 15:40 Y. Yacobi: Potential toll of a desalination plant: b) the microbial aspect.
- 15:50 L.A.M. Farahat: Microbial desulfurization of Egyptian crude oil by a yeast strain isolated from oil polluted sea water.

16:00 – 16:30 Coffee break

\*16:30 – 16:50 Committee briefing (see p. 3)

#### New techniques/approaches in microbiology

- 16:50 M. Ghobrial: Studies on the bioactivity of different solvents extracts of selected marine macroalgae against fish pathogens.
- 17:00 Y. Milker: Holocene sea-level change in the Mediterranean Sea: quantitative reconstructions based on foraminiferal transfer functions.
- 17:10 J. France: Assessment of the ecological status of the Northern Adriatic coastal waters: testing and adapting two phytoplankton indices.

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- 17:20 A. Gomiero: Development of new bioassays to assess the quality of coastal and estuarine environments: the potential of the cosmopolitan marine protozoa *Euplotes crassus*.
- 17:30 C. Klockow: From pure cultures to bacterial communities: knowledge generation by expression profiling.

### Diversity of Mediterranean environments

- 17:40 B. Franzetti: Cellular and molecular adaptations to Mediterranean deep sea hyper salines lakes.
- 17:50 Z. Demirel: Isolation of hot spring Cyanobacteria from Izmir and comparison of phycobiliproteins.
- 18:00 V. Flander-Putrlé: Photosynthetic pigments in mucilage aggregates and surrounding water in the Northern Adriatic.
- 18:10 M. Saidane: Hydrocarbon pollution in Tunisia coasts: evaluation and bioremediation.

## C5a. Marine Ecosystems and Living Resources

### Alien species

- 14:00 B. Banbul Acar: Spatial density and morphology variation of *Caulerpa scalpelliformis* (brown ex turner) C. agardh (Caulerpacaeae, Chlorophyceae) in Antalya Gulf (Turkey).
- 14:10 O. Ben Hadj Hamida-Ben Abdallah: Inventaire des crevettes pénaïdes exotiques collectées sur les côtes Sud-Est de la Tunisie (Golfe de Gabes).
- 14:20 J. Ben Souissi: Les espèces non indigènes du macrobenthos des lagunes du Sud-Est Tunisien : point sur la situation.
- 14:30 B.S. Galil: Patterns of bioinvasion in the Mediterranean sea – management and mismanagement.
- 14:40 D. Golani: The Impact of the CIESM Atlas of Exotic Species (Fishes) in the Mediterranean.
- 14:50 G. Bitar: Impact des changements climatiques et des espèces exotiques sur la biodiversité et les habitats marins au Liban.
- 15:00 M. Goren: The Indo - Mediterranean; the emerging of a manmade biogeographical province.
- 15:10 A. Diamant: Parasites of red-med immigrant and native Mediterranean coastal fish species: new observations from the Israeli and Turkish coasts.
- 15:20 M. Gökoglu: Re-appearance of *Caulerpa scalpelliformis* (R. brown ex turner) c. Ag. Weber Van Bosse (Caulerpacaeae, Caulerpales) in the Gulf of Antalya, Turkey.
- 15:30 A. Ibrahim: *Signatus javus*, a new record from the Syrian waters, with a reference to growth & feeding of two lessepsian fish.
- 15:40 G. Innocenti: Invasive host, *Charybdis longicollis* (Decapoda: Brachyura: Portunidae), and invasive parasite, *Heterosaccus dollfusi* (Cirripedia: Rhizocephala: Sacculinidae).

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15:50 S. Kalogirou: Diversity, structure and function of fish assemblages associated with *Posidonia oceanica* meadows in Eastern Mediterranean.

16:00 – 16:30 Coffee break

**\*16:30 – 17:10 Committee briefing (see p. 3)**

17:10 E. Lefkaditou: Lessepsian fish migrants in the Hellenic Seas: spatial variation of their occurrence in boat-seine catches.

17:20 A. Occhipinti-Ambrogi: Hotspots of introduction of marine alien species in Italian seas.

17:30 E. Özgür Özbek: The status of the exotic fish species in the Gulf of Antalya, Turkey (Levantine Sea).

17:40 P. Peristeraki: First results on the maturity of the lessepsian migrant *Lagocephalus sceleratus* (Gmelin 1789) in the Eastern Mediterranean Sea.

17:50 F. Pranovi: The contribute of the manila clam to the secondary production of the benthic compartment in the Venice Lagoon.

18:00 A.A. Saad: Impact of invasive species on the biodiversity and fish stock; case study: *Fistularia commersonii* Ruppel, in the Syrian coast.

18:10 M.B. Yokes: Rapid expansion of recently introduced species populations off the Mediterranean coast of Turkey.

### C5b. Marine Ecosystems and Living Resources

#### Coastal versus offshore ecology

14:00 S. Libralato: Effects of climate-driven changes on the North-Central Adriatic food web: insights from an End-to-End approach.

14:10 N. Bahamon: Patterns of phytoplankton chlorophyll variability in the Mediterranean and Black Seas.

14:20 M. Isinibilir: Zooplankton community state in the adjacent regions of the Black and Marmara Seas.

14:30 E. Agirbas: Temporal variation of hydrochemical parameters in the Trabzon coast (South-Eastern Black Sea) during the spring of 2009.

14:40 A. Feyzioglu: Spatial distribution of holoplankton on the Anatolian coast, neritic zone of Black Sea during late Autumn 2005.

14:50 M. Fernandez de Puellas: Zooplankton temporal pattern in the Western Mediterranean: a decade study of two time series: 1995-2004.

15:00 M. Muresan: The spatial zooplankton distribution in the North–Western Black Sea region: Spring and Autumn, 2008.

15:10 T. Terbiyik: Changes in mesozooplankton abundance, biomass and species composition with depth in the Levantine Basin (Eastern Mediterranean).

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- 15:20 N. Yücel: Primary production in shelf waters of the Cilician Basin.
- 15:30 N. Bojanic: Changes in the ciliate community of eutrophicated Vranjic Basin (middle Adriatic Sea) during 2004-2005.
- 15:40 M.G. Pennino: Fishery ecosystem indicators and dynamics in the Mediterranean for 1970-2005.
- 15:50 I.A. Catalán: Vertical distribution of anchovy early stages in the Alboran Sea: validating tools for IBM ecology in a regional context.

16:00 – 16:30 *Coffee break*

**\*16:30 – 17:10 Committee briefing (see p. 3)**

- 17:10 I.K. Oray: Distribution and abundance of sardine and anchovy larvae in the Eastern Mediterranean Sea.
- 17:20 M.P. Olivar: Autumn overlapping of *Sardina pilchardus* and *Merluccius merluccius* early stages in the NW Mediterranean: distribution and diet.
- 17:30 M. Casadevall: The Lesser-spotted dogfish (*Scyliorhinus canicula*): parasites and scavenger habits.
- 17:40 M. Harmelin-Vivien: Migration of common sole juveniles in coastal lagoons assessed by otolith and stable isotope fingerprints (NW Mediterranean)
- 17:50 M. Zuschin: Reactions of benthic predators to mortality events: a time-lapse approach.
- 18:00 B. Topaloglu: A preliminary study on the macrozoobenthic invertebrate fauna of two banks in the North Aegean Sea.

### **C6. Ecosystèmes côtiers / Coastal Ecosystems**

**14:00 – 14:10 Opening Session**

**Shoreline evolution: natural and anthropogenic**

- 14:10 A. Ramšak: Evaluation of biomarkers response at the SE Gulf of Trieste (Slovenia) and Boka Kotorska (Montenegro).
- 14:20 A. Correggiari: Anatomy of recent flood deposits in the nearfield of the Po prodelta (Northern Adriatic Sea Italy).
- 14:30 J. Rapaglia: Shipping-induced sediment resuspension in the Venice Lagoon, Italy.
- 14:40 N. Bachari: Méthodologie pour le suivi du trait de côte de la région centre d'Algerie.
- 14:50 E. Cherkaoui: Impact du projet d'Aménagement de la vallée du Bou Regreg sur la qualité des eaux de baignade de la plage de Salé.
- 15:00 A. Sancho García: Run-up along embayed beaches during storms (Barcelona, NW Mediterranean).
- 15:10 V. Kapsimalis: Holocene geomorphological evolution of the Kalamas river delta (Epirus, Greece).



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15:20 G. Alexandrakis: The development of a vulnerability index for beach erosion, based on a sediment budget approach.

### **General sediments**

15:30 R. Belkessa: Qualité et quantité des sédiments à draguer dans le port de Ghazaouet (Ouest Algérien).

15:40 M. Horvat: The impact of the construction and operation of liquefied natural gas (NLG) terminals on mercury mobility and reactivity from polluted coastal sediments.

15:50 N. Glavaš: Healing mud from Secovlje saltpans.

16:00 – 16:30 *Coffee break*

**\*16:30 – 16:50 Committee briefing (see p. 3)**

16:50 D. Joksimovic: Contents of heavy metals in coastal surface sediments from Montenegrin coast.

17:00 J. Oh: Antifoulants in sediments from the French Mediterranean coast.

17:10 E. Tzempelikou: Mercury levels in sediments from Greek coastal areas.

17:20 E. Kvavadze: The climatic optima assessed using sediments of the Black Sea.



## **DINING RECEPTION**

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**starting 19:30 – Hotel Excelsior, Venice Lido**

Réception offerte par le Président de la CIESM,  
S.A.S le Prince Albert II de Monaco

*Reception offered by CIESM President,  
H.S.H. Prince Albert II of Monaco*

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## MORNING PANELS

with 10:30 – 11:00 Coffee break

### **P1. 9:00 – 12:30 Mosaici 1**

#### **SIGNS OF CHANGE**

Moderator: Paulo NUNES (Ca' Foscari Univ. of Venice, Italy)

Panelists: Michael ANGELIDIS (UNEP / MAP); Jean-François CADIOU (Ifremer, La Seyne, France); Paula MOSCHELLA (CIESM); Katrin SCHROEDER (CNR-ISMAR, Lerici, Italy) and Martin ZUSCHIN (Geocenter, Univ. Vienna, Austria).

*The presentations and debate will embrace hydrological change (temperature, salinity), trends in biodiversity (tropicalization), contamination state in coastal waters (uptrends, downtrends), pollution hotspots around large coastal harbours, and marine 'dead zones' where anoxia leads to mass mortalities of benthic organisms.*

### **P2. 9:00 – 12:30 Sala Perla**

#### **RESTORATION OF THE VENICE LAGOON**

*[Jointly organized by CNR ISMAR, Consorzio Venezia Nuova - Magistrato alle Acque and CIESM]*

Moderators: Alberto Giulio BERNSTEIN (Consorzio Venezia Nuova, Venice, Italy) and Roberto ZONTA (CNR - ISMAR, Venice, Italy)

Panelists: Pierpaolo CAMPOSTRINI (CORILA, Venice); Sandro CARNIEL (CNR ISMAR, Venice); Daniele CASSIN (CNR ISMAR, Venice); Giovanni CECCONI (Consorzio Venezia Nuova); Thomas GALVAN (AGRITECO, Venice); Andrea RIMONDO (SELC, Venice); Francesco SCARTON (SELC, Venice); Patrizia TORRICELLI (Univ. Cà Foscari, Venice); Georg UMGIESSER (CNR ISMAR, Venice); Luca ZAGGIA (CNR ISMAR, Venice).

*An ambitious programme integrating engineering and environmental expertise has been undertaken over the last twenty years to protect the Venice Lagoon from the assaults of flooding, erosion and loss of natural habitats. The presentations will highlight the efforts undertaken by the Water Authorities for tidal regulation, for lagoon environment restoration and sediment loss reduction.*



## AFTERNOON COMMITTEE SESSIONS

### C1. Géosciences marines / Marine Geosciences

Joint session with C3 – Sala Mosaici 1 [see progr. in C3 section]

### C2. Physics and Climate of the Ocean

#### Large scale variability

- 14:00 S. Marullo: The SST multi-decadal variability in the Atlantic-Mediterranean region.
- 14:10 G. Shapiro: Variations in the sea surface temperature of the Black Sea during the 20th century.
- 14:20 F. Calafat: Mass contribution to Mediterranean Sea level variability for the period 1948-2000.
- 14:30 P. Zunino: What does induce temperature and salinity changes in the WMED along the second half of the 20th century?

#### Water masses, circulation

- 14:40 M. Adani: The Mediterranean Sea re-analysis: 1985-2007.
- 14:50 K. Schroeder: "Natural" tracer release event in the Western Mediterranean Sea.
- 15:00 E. Schiano: Observation of upper layer inertial and internal waves in the Central Ligurian Sea.
- 15:10 A. Vetrano: Tyrrhenian Sea circulation in spring 2004: observation and model results.
- 15:20 N. Supic: Towards long-term forecast of the Northern Adriatic winter conditions.
- 15:30 I. Vilibic: Long-term changes in deep Adriatic water masses obtained by Self-Organising Map analysis.
- 15:40 J.W. Book: Eddy processes of the Western Adriatic Current near Cape Gargano.
- 15:50 P. Falco: Water mass structure and associated processes in the Tyrrhenian Sea (Southern sector) by means of *in situ* data collected during vector-TM cruises.

16:00 – 16:30 *Coffee break*

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## MARDI 11 MAI / TUESDAY 11 MAY

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- 16:30 V. Malacic: The influence of tides and turbulent diffusion on 3D trajectories in the Adriatic Sea.
- 16:40 B. Buongiorno Nardelli: Lagrangian and Eulerian observations of the surface circulation in the Tyrrhenian Sea.
- 16:50 R. Kraus: Two different Northern Adriatic winter oceanographic types.
- 17:00 M. Gacic: Footprints of mesoscale eddy passages in the Otranto Strait (Adriatic Sea).
- 17:10 S. Kioroglou: Assessment of vertical eddy diffusivities through identification of potential density overturns within the frame of SESAME project.
- 17:20 M. Morovic: Strong internal oscillations found in the central South Adriatic Pit.
- 17:30 E. Reyes: A forced ocean-atmosphere model to perform long-term hydrodynamic response induced by atmospheric forcing within the Strait of Gibraltar.

### **Integrated system of Mediterranean observatories**

- 17:40 S.D. Rosen: *In situ* detection of tsunami and other sea level related hazards - from a conceptual approach to implementation at MedGLOSS stations.
- 17:50 M. García-Martínez: Merging MEDATLAS data base and new monitoring programs. WMed warming from 1900 to 2008.
- 18:00 A. Drago: ROSARIO - A shelf-scale forecasting system for the Mediterranean Sea.
- 18:10 M. Bastianini: LTER, Long Term Ecological Research along the Italian coasts.
- 18:20 A.G. Zatsepin: A moored profiler for oceanographic research and environmental monitoring.

### **C3. Biogéochimie marine / Marine Biogeochemistry**

#### **Joint session C1/C3 Present-Past Biogeochemical Cycles**

- 14:00 S. Tugrul: Long-term changes in the hydro-chemical properties of Black Sea upper layer.
- 14:10 M. Yucel: Deep basin turbidites as a previously unrecognized sink for hydrogen sulfide in the Black Sea.
- 14:20 S. Henkel: Barium in Black Sea sediments - Reflection of primary productivity or early diagenesis?
- 14:30 C. Zeri: DOM stoichiometry in the Marmara Sea during September 2008.
- 14:40 A. Gogou: Organic geochemical proxies in the sedimentary record of the E. Mediterranean Sea: paleo-environmental and -climatic reconstructions during the last 20,000 yrs.
- 14:50 M. Zavatarelli: The Mediterranean Sea ecosystem dynamics: hindcast and scenario simulations.
- 15:00 M. Krom: Understanding why nutrient cycling in the Eastern Mediterranean (EMS) is so unusual?

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- 15:10 P. Lazzari: Mediterranean Sea primary productivity simulated by OPATM-BFM model.
- 15:20 E. Rahav: Nitrogen fixation, primary and bacterial productivity rates in two distinct water provinces in the Levantine Basin.
- 15:30 C. Solidoro: Comparison of different microbial food web formulations in a biogeochemical model of intermediate complexity.
- 15:40 K. Bizsel: A Bioassay study on the effects of different organic matters and iron on natural phytoplankton species composition.
- 15:50 R. Precali: Oligotrophication of the Northern Adriatic, true or false?

### 16:00 – 16:30 Coffee break

- 16:30 M. Giani: Biogeochemical properties of Adriatic dense waters.
- 16:40 B. Rossetto: Properties of periodic dynamical systems modeling: the dimethylsulfide (DMS) cycle.
- 16:50 T. Lovato: Combining a RTM biogeochemical model and high-frequency *in situ* observations for the short-term prediction of algal blooms.
- 17:00 R. Chairi: Alkylbenzene origin in recent sediments from the hypersaline environment of Moknine Sebkh, Tunisia.
- 17:10 M. Plavsic: Determination of polymeric organic material containing "N-catalyst" in seawater by constant current chronopotentiometric stripping analysis.
- 17:20 C. Rabouille: The fate of Rhone river carbon and nutrients in the coastal Mediterranean Sea and its relation to climatic parameters.

## C4. Marine Microbiology and Biotechnology

### Functional microbial diversity

- 14:00 F. Van Wambeke: Longitudinal and vertical trends of bacterial production and high and low nucleic-acid bacterioplankton cells in Mediterranean Sea.
- 14:10 C. Brunet: Functional diversity of phytoplankton in the Mediterranean Sea: environmental forcing on cell size and ecophysiology.
- 14:20 M. Boutrif: Degradation of high molecular weight dissolved organic matter by deep-sea prokaryotes on PAP site (Northeastern Atlantic Ocean).
- 14:30 B. Nogales: Patterns of bacterioplankton diversity in recreational marinas in the Island of Mallorca (Balearic Islands) and its relation to hydrocarbon pollution.
- 14:40 T. Tinta: Seasonal dynamics of the bacterial community in correlation with different environmental factors in the Gulf of Trieste (Northern Adriatic).
- 14:50 I. Talaber: Variability of photosynthetic parameters in a shallow temperate coastal area (Gulf of Trieste, Adriatic Sea).

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- 15:00 A. Zoppini: Carbon flow mediated by microbial communities in the Eastern Mediterranean Sea.
- 15:10 V. Turk: The degradation of different Scyphozoan jellyfish species by the ambient bacterial community.
- 15:20 T. Nevalainen: Cnidaria share homologous secreted phospholipases A2 with bacteria and fungi.
- 15:30 P. Del Negro: Dissolution of biogenic silica in Adriatic water masses.
- 15:40 E. De Domenico: Luminous bacteria characterization in Mediterranean Sea waters.

16:00 – 16:30 *Coffee break*

### **From viruses to microzooplankton, a synoptic view**

- 16:30 E. Garcés: Dinoflagellate cyst assemblages as repertoire of species diversity: main results of the EU-SEED project related to Mediterranean sites.
- 16:40 J. Godrijan: Phytoplankton community structure and succession along the Eastern part of the Northern Adriatic Sea.
- 16:50 D. Maric: Diversity and abundance patterns of phytoplankton in coastal waters of the Northern Adriatic.
- 17:00 F. Rubino: Resting stages produced by plankton in the Black Sea – biodiversity and ecological perspective.
- 17:10 M. Türkoglu: *Emiliania huxleyi* bloom in winter period in the Dardanelles, Turkey.
- 17:20 A. Gazihan Akoglu: Picoplankton abundance and biomass distribution in Turkish seas.
- 17:30 A. Giannakourou: Seasonal and spatial patterns of bacterial production, respiration and growth in the E. Mediterranean and the Marmara Sea.
- 17:40 S. Fonda Umani: Virus-prokaryote-nanoflagellate-microzooplankton interactions in surface waters of the Mediterranean Sea.
- 17:50 J. Ginoux: Remineralization process in a nutrient-phytozooplankton-bacteria model.
- 18:00 S. Zizah: Chlorophyll *a* variation versus hydrological conditions in the Southern Moroccan Atlantic coast (Blanc Cape and Bojodor Cape).
- 18:10 S. Psarra: Evolution and impact of Black Sea water into the N. Aegean Sea. First insights from a Lagrangian experiment.

### **C5a,b. Marine Ecosystems and Living Resources**

#### **Joint Session 5a,b -Sala Perla- Marine reserves and biodiversity**

- 14:00 J. Baro: Preliminary study on fishing yields in the vicinity of two no-take zones within the marine reserve of Cabo de Gata-Níjar (Almería-Spain).
- 14:10 G. Basterretxea: Influence of food availability and coastal circulation in the spawning strategies of fish species of Cabrera national park (NW Mediterranean).

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## MARDI 11 MAI / TUESDAY 11 MAY

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- 14:20 S. Giakoumi: Designing a network of marine reserves subjected to different human constraints: the Cyclades Archipelago case study.
- 14:30 D. Mouillot: Spatial congruence between fish biodiversity hotspots, human impact and the network of marine protected areas at the Mediterranean scale.
- 14:40 D. Savini: The project for-mare: training and research in marine protected areas, marine ecology and geobotany stages.
- 14:50 C. Benjamini: Diverse oligohaline foraminiferal fauna at Enot Timsah, Israel.
- 15:00 S. Zeki: Anchor damage on *Posidonia oceanica* (L.) Delile beds in the Gokova Bay.
- 15:10 M. Sezgin: Sublittoral soft-bottom zoobenthic communities and diversity of Southern coast of the Black Sea (Turkey).
- 15:20 F. Fava: Benthic vagile fauna associated to colonization processes in the Northern Adriatic coralligenous habitats.
- 15:30 E. Azzurro: A simplified visual census methodology to detect variability trends of coastal Mediterranean fishes under climate change scenarios.
- 15:40 J. Leonart: A map of the Mediterranean Sea for fishery purposes using Google Earth.
- 15:50 M. Bariche: Field identification guide to the living marine resources of the Eastern and Southern Mediterranean.

### 16:00 – 16:30 Coffee break

- 16:30 Y. Issaris: Non-destructive Distance Sampling surveys for population density and abundance estimations of benthic fauna.
- 16:40 T. Shiganova: Towards increasing gelatinous plankton blooms in the Mediterranean. Comparison with the Black Sea similar event scenario.
- 16:50 M. Ganouli: Higher taxa surrogates of marine bivalvia (Mollusca) and polychaeta (Annelida) diversity in the Eastern Mediterranean (Greek waters).
- 17:00 W. Refes: Bionomie benthique des peuplements ichtyologiques des fonds chalutables du secteur oriental de la côte Algérienne.
- 17:10 A. Lök: Fish assemblages around fish aggregation devices in Aegean Sea coast of Turkey.
- 17:20 M. Coll Montón: Biodiversity of the Mediterranean Sea: estimates, patterns & threats.
- 17:30 D. Tagliapietra: Changes in benthic macroinvertebrate community in the Venetian Lagoon (Italy) 2002-2007.
- 17:40 M. Zammit-Mangion: Studies on the biology of the vulnerable fish *Aphanius fasciatus* nardo 1827 (Cyprinodontidae) at the Ghadira wetland in the Maltese islands.
- 17:50 L. Rabaoui: Impact of environmental factors on the distribution and density of fan mussel *Pinna nobilis* along the Eastern and South-Eastern Tunisian coastline.

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## MARDI 11 MAI / TUESDAY 11 MAY

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- 18:00 P.J. Schembri: Rediscovery of live *Gibbula nivos* (Gastropoda: Trochidae).
- 18:10 N. Bourehail: Age, croissance et reproduction du barracuda *Sphyraena viridensis* (Sphyraenidae) des côtes de l'Est Algérien.
- 18:20 A. Vella: Bluefin tuna conservation research in the Central-Southern Mediterranean spawning area.

### C6. Ecosystèmes côtiers / Coastal Ecosystems

#### General - Modelling and forecasting

- 14:00 B. Aoun Sebaiti: Three-dimensional mathematical model to simulate groundwater flow and mass transport in coastal aquifer system of Annaba, Eastern Algeria.
- 14:10 A. Russo: Assessment of an operational system for forecasting hypoxic events in the Emilia-Romagna coastal area (Northern Adriatic Sea).
- 14:20 A. Hani: On the use of finite-difference and neural-network models to evaluate the impact of the diminution of rainfall groundwater's overexploitation.
- 14:30 K.D. Kombiadou: Modelling mechanical erosion in the Thermaikos Gulf.

#### General - Environmental quality and human impacts

- 14:40 E. Ladakis: The influence of the Moronis river on the marine environment of the Bay of Souda.
- 14:50 F.S. Sunlu: The effects of a wastewater treatment plant on nutrient and chlorophyll a variations in Izmir Bay (Eastern Aegean Sea).
- 15:00 H. Caner: Palynological evidence of human impact and deforestation on Western rough Clicia, South Coastal Turkey.
- 15:10 G. Papatheodorou: Litter composition and source identification for 80 beaches in Greece.
- 15:20 S. Gobert: Assessment of the ecological status of Mediterranean French coastal waters using the *Posidonia oceanica* Rapid Easy Index: PREI.
- 15:30 S. Sakinan: Selection of the priority areas on the west coasts of Mersin using GIS to assess a marine conservation planning.
- 15:40 A. Bellante: High efficiency feeding strategy of *Tursiops truncatus* in the fishing gear depredation.
- 15:50 A. Scarpato: Assessment of chemical contamination of Malta and Lampedusa coastal waters by means of active mussel watch.

16:00 – 16:30 Coffee break



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## MARDI 11 MAI / TUESDAY 11 MAY

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- 16:30 J. Mercado: Eutrophication indicators in the Northwest coast of the Alboran Sea: a multiscale time analysis.
- 16:40 G. Fontana: Detrital enrichment from marine urban structures and its far-field effects on soft-bottom assemblages.
- 16:50 C. Micheli: Seagrass monitoring by remote sensing in the context of biodiversity conservation.



**TECHNICAL SESSION TS1. 14:15 – 16:00 Sala Amici**  
**CIESM MUSSEL WATCH PROGRAMME**

**TECHNICAL SESSION TS2. 17:00 – 18:30 Sala Amici**  
**CIESM HYDROCHANGES PROGRAMME**



**MORNING PANELS**

with 10:30 – 11:00 Coffee break

**P3. 9:00 – 12:30. Mosaici 1**

**BLUE BIOTECHNOLOGIES**

Moderator: Henry NICHOLLS (*New Scientist*)

Panelists: Haim AVIV (Biotechnology General, S.A., Israel); Milton DA COSTA (Univ. Coimbra, Portugal); Monia EL BOUR (INSTM, Salammbô, Tunisia); Peter PROKSCH (Inst. Biotechnology, Univ. Düsseldorf, Germany) and Andrée SONTOT (INRA, Versailles, France).

*The biotechnological potential of Mediterranean biodiversity - and particularly of the marine bacteria being discovered in extreme environments - is immense for drug discoveries (antibiotics, anti-inflammatory products, anti-cancer agents), cosmetic development, dietary supplements, new biofuels. This is attracting much research and industrial attention. Both the scientific, economic prospects will be reviewed in the context of innovative North-South partnership, with special attention to the priorities of biotech start-ups, and to the legal/ethical issues involved in protecting national sovereignty rights against foreign utilization and patenting of genetic material.*

**P4. 9:00 – 12:30. Mosaici 2**

**MARINE OBSERVATORIES NETWORKS**

Moderator: Luis VALDES (IOC / Unesco)

Panelists: Anne CHENUIL-MAUREL (Univ. Med., Aix-Marseille, France); Cécile GUIEU (Lab. Océanogr., Villefranche s/m, France); Salvo MAZZOLA (IAMC, Mazzara del Vallo, Italy); Nadia PINARDI (SINCEM, Univ. Bologna, Italy) and Ingrid PUIILLAT (Ifremer, Brest, France).

*Scientists closely associated with the development of integrative regional observatories and with the ESONET, MOON, MERMeX communities will illustrate the latest developments and perspectives of such networks. Discussions will cover the desired harmonization of these infrastructures with both in situ research capacities and satellite services, so as to optimally enhance the monitoring capacity of the Mediterranean Sea. New tools available to monitor intraspecific genetic diversity of the marine fauna on a cross-Basin scale will be also presented.*



## POSTER SESSION

Prés de la moitié des communications du Congrès (soumises aux mêmes critères de sélection que les communications orales) sont présentées sous forme d'affiches. L'après-midi leur sera consacré.

**14:00-16:15.** Présentations PowerPoint de 2 min. de chaque poster dans chaque salle de comité.

**16:15-18:30.** Session plénière posters accompagnée d'une dégustation de vins et fromages régionaux (buffet) [Sala Adriatico & Sala Laguna].

*Nearly half of the Congress communications (subjected to the same screening rules as the others) are given in the form of posters. The afternoon will be devoted exclusively to their presentation.*

**14:00-16:15.** 2 min. PowerPoint presentation of each poster in each committee room.

**16:15-18:30.** Wine & Cheese Degustation Buffet around the plenary poster session [Sala Adriatico & Sala Laguna].

### C1. Géosciences marines / Marine Geosciences

#### Paleoceanography

- 1-1 F. Martínez-Ruiz: Mineral precipitation by *Idiomarina loihiensis* and *Myxococcus xanthus*: implications for the biogeochemical cycles of carbon and barium in the Mediterranean.
- 1-2 F. Martínez-Ruiz: Late Holocene climate variability recorded by marine-sediment composition in the westernmost Mediterranean.
- 1-3 M. Rodrigo-Gámiz: Western Mediterranean response to rapid climate variability: the Eolian input record during the last 20.000 years.

#### High resolution mapping, new technological tools

- 1-4 F. Del Bianco: The Montenegro-Northern Albanian continental margin: morphotectonic features in a seismically active region.
- 1-5 F. Foglini: West Adriatic margin morphology and deep-sea macrobenthic ecosystems.
- 1-6 J. Guillen: Very large subaqueous dunes along an outer continental shelf (Southern Ebro Continental Shelf; Western Mediterranean Sea).
- 1-7 T. Ilhan: High resolution bathymetry and shallow seismic studies in the Izmir Gulf, Aegean Sea.

- 1-8 S. Okay: Multiple seismic studies in the Marmara Sea for high resolution mapping of the North Anatolian Fault.
- 1-9 C. Tessarolo: Geological risk and climatic changes on the Ionian Calabrian coastal environment: a case study.

### **Turbidites, catastrophic events, geohazards**

- 1-10 B. Alonso: Quaternary mass-movements on the Almeria margin and adjacent Alboran Trough (Alboran Sea - SW Mediterranean).
- 1-11 B. Alonso: Sedimentary instabilities along the South-Western slope of the Alboran ridge (SW Mediterranean).
- 1-12 A. Camerlenghi: A data-base on submarine landslides of the Mediterranean Sea.

### **Estuaries/subterranean estuaries**

- 1-13 D. Bogner: Foraminiferal distribution in the karstic Zrmanja River estuary (Eastern Adriatic Sea).
- 1-14 L. Zaggia: The seasonal quantification of groundwater flux into the Venice Lagoon, Italy: Mass balance of radium isotopes and hydrodynamic model.

### **Mud/gas expulsion structures**

- 1-15 G. De Lange: Eastern Mediterranean Anaximander and Nile Mud Expulsion Structures: deep origin for fluids and gases
- 1-16 C. López-Rodríguez: Mud breccias and hemipelagic drapes of Mud Volcanoes from the West Alboran Basin: Geochemical and mineralogical characterization.
- 1-17 J. Mascle: Geophysical signature for seepage activity at the Menes Caldera: An exceptional site of brine, gas and mud expulsions in the deep waters off North-Western Egypt.
- 1-18 A. Stefanon: Gas detection capabilities, gas induced acoustic structures and ghost imageries in Uniboom records in the Adriatic Sea.

### **Messinian Salinity Crisis**

- 1-19 C. Casalino: Composition and origin of hypersaline Eastern Mediterranean brines with emphasis to Urania Basin.
- 1-20 M. Goudeau: A unifying Biogeochemical mechanism for shallow gypsum vs. deep dolomite formation during the Messinian Salinity Crisis.
- 1-21 A. Maillard: Present-day reactivation in the Eastern Iberian and Balearic margins: Messinian as vertical markers.

### **Miscellaneous**

- 1-22 D. Cassin: Heavy metals, PAHs and PCBs in the sediment of the Venice Lagoon.

- 1-23 L.M. Fernández-Salas: Relationship between the offlap-break location of Holocene prograding wedges and wave climate in Southeastern Iberian Peninsula.
- 1-24 L.M. Fernández-Salas: A geostatistical analysis of prodeltaic undulations off the Guadalquivir river in the Northern margin of the Alboran Sea, Western Mediterranean Basin.
- 1-25 I. Jurina: Sedimentological and geochemical characteristics of modern aragonite-rich sediments in Mediterranean karstic marine lakes (Mljet Island, Adriatic Sea).
- 1-26 E. Ladakis: the distribution of Fe and Mn in sediments from the Elefsis Gulf (Greece).
- 1-27 N. López-González: Use of geochemical features to identify changes in recent sedimentation on seamounts of the Djibouti banks area (NW Alboran Basin).
- 1-28 V. Nerlovic: Intraannual variability of *Bivalvia* assemblages in the transitional community of detritic bottoms of the Northern Adriatic Sea.
- 1-29 S. Kholeif: Organic dinoflagellate cysts as bio-indicator of Marine Pollution, Southeastern Mediterranean, Egypt.

### C2. Physics and Climate of the Ocean

#### Water masses and circulation

- 2-1 C. Santinelli: An integrated study of the early-spring carbon flux in the Western Mediterranean Sea. Results of the SESAME-IT4 cruise.
- 2-2 C. Estournel: Impact of hydrodynamic changes on Mediterranean biogeochemical budgets (WP1 of the MERMEX project).
- 2-3 F. Eyrolle: A high frequency flux monitoring station at the lower Rhône River.
- 2-4 B. Grbec: Unusual preconditioning vs. generation phase of the North Adriatic Dense Water in 2007/2008.
- 2-5 J. López-Jurado: Evolution of the Western Mediterranean thermohaline anomaly as observed nearby Balearic Islands (2005-2009).
- 2-6 V.P. Papadopoulos: Air-sea heat fluxes estimation in the Aegean Sea (Eastern Mediterranean Sea).
- 2-7 C.A.G. Zatsepin: Impact of winter cooling on the variability of thermohaline characteristics of active layer in the Black Sea.

#### Water masses

- 2-8 A. Karageorgis: Transmissometry and list measurements during SESAME-IP cruise in the Eastern Mediterranean (March-April 2008).
- 2-9 V. Kovacevic: Oceanographic properties in the Ionian Sea in winter and summer 2008.
- 2-10 G. Notarstefano: Thermohaline characteristics of the Mediterranean deduced from Argo data in 2000-2009 (statistical analysis).

- 2-11 M.A. Said: Sea surface temperature anomalies in the South-Eastern Mediterranean Sea.
- 2-12 G. Shapiro: Long term variability of the physical parameters in the benthic boundary layer over the Black Sea shelf.
- 2-13 G. Zodiatis: Sea surface temperature and salinity rise in the Levantine Basin.
- 2-14 P. Zunino: Variability on isopycnal and isobaric surfaces associated to the Western Mediterranean Transition.

### **Basin scale and regional circulation**

- 2-15 J. Chiggiato: Numerical modeling of the surface circulation in the Sea of Marmara during the TSS experiment (September 2008 – March 2009).
- 2-16 R. Gerin: Surface circulation in the Marmara Sea.
- 2-17 C. Lebeau-pin Brossier: Modelling in a perpetual mode the Mediterranean circulation using atmospheric fields at different space-time resolutions.
- 2-18 M. Menna: Subsurface (350 m) circulation in the Mediterranean Sea based on Argo data.
- 2-19 E. Napolitano: Aspects of the surface Tyrrhenian Sea summer circulation.

### **Mesoscale and submesoscale dynamics**

- 2-20 S. Cosoli: Surface current dynamics in the North Eastern Adriatic Sea from high-frequency radar observations and high-resolution wind fields.
- 2-21 V. Kremenetskiy: Sub-mesoscale water dynamics at the narrow Black Sea shelf: physical mechanisms.
- 2-22 I. Mancero-Mosquera: North Adriatic winds and the residual currents in the inlets of the Venice Lagoon.
- 2-23 E. Mauri: High resolution Glider measurements around the Vercelli Seamount (Tyrrhenian Sea) in May 2009.

### **Observatories, operational oceanography**

- 2-24 M. Bastianini: Aqua Alta – the oceanographic tower of ISMAR-CNR after almost 40 years of activity.
- 2-25 F. Braga: The hyperspectral for Adriatic coastal monitoring (hypad.com) project.
- 2-26 R. Delfanti: A Marine Environment Interdisciplinary Observatory in the Eastern Ligurian Sea.
- 2-27 J. Font: A new buoy for measurement and real time transmission of surface salinity.
- 2-28 J. López-Jurado: Implementing a multidisciplinary monitoring system in the Spanish Mediterranean.
- 2-29 I. Pairaud: Coastal circulation off the city of Marseille from 3D modeling and observations.
- 2-30 I. Puillat: ESONET-EMSO Deep seas observatories in Europe: towards a common infrastructure.
- 2-31 K. Schroeder: HYDROCHANGES network: latest observations and links between time series.

- 2-32 R. Sorgente: Real Time Regional Forecasting System into the Sicily Channel.

### **The E. Mediterranean 20 years after POEM- A tribute to Alan Robinson**

- 2-33 I. Gertman: Assessment of post-transient changes in Levantine Basin deep waters.
- 2-34 Z. Rosentraub: Wintertime cross shelf circulation and shelf/slope interaction off the Central Israeli coast.
- 2-35 M.A. Said: Investigating changes in the Atlantic waters characteristics along the Egyptian Mediterranean coast.
- 2-36 I. Taupier-Letage: Intermediate and deep circulations in the Eastern Basin of the Mediterranean: focus on its central part from the EGYPT observations (2005-2007).

### **Straits**

- 2-37 H. Altiok: Extreme conditions in the strait of Istanbul (Bosphorus).
- 2-38 J.W. Book: Observations of higher-frequency variability through the Turkish Straits System.
- 2-39 V. Kourafalou: Investigating the circulation impacts of the Dardanelles flow exchange with the North Aegean hybrid coordinate ocean model.
- 2-40 C. Naranjo: Subinertial variability of the exchanged flows at the Western exit of the Strait of Gibraltar.
- 2-41 J. Soto-Navarro: Estimation of the Atlantic inflow through the Strait of Gibraltar from climatological and *in situ* ADCP data.
- 2-42 W. Teague: Current observations in the Bosphorus Strait during EPOS.

### **Sea level**

- 2-43 A. Drago: Recent sea level and surface temperature trends in the Maltese Islands.
- 2-44 D. Gomis: Storm surge variations in the Mediterranean Sea under climate change scenarios.
- 2-45 A. Olita: Effects of the assimilation of sea level anomaly in the Sicily Channel Regional Model.
- 2-46 M. Pasarić: Record-breaking sea levels in the Northern Adriatic on 1 December 2008.
- 2-47 E. Tutsak: Time-series analyses of atmospheric and marine observations along the Turkish coast.

### **Miscellaneous**

- 2-48 J. Abdennadher: Model estimates of M2 internal tide energetics in the Sicilian channel.
- 2-49 D. Gomis: Western Mediterranean wave climate change scenarios for the XXIst century.
- 2-50 N. Leder: Evolution of surface wave spectra in extreme sea states along the Eastern Adriatic open sea and channel areas.
- 2-51 M. Morovic: Spectral signatures of pigments in the Kaštela Bay.

- 2-52 F. Sakellariadou: Climate change and maritime industry.
- 2-53 I. Vilibic: Strong fortnightly oscillations observed in the Adriatic Sea.

### C3. Biogéochimie marine / Marine Biogeochemistry

#### Vertical fluxes

- 3-1 A. Ben Hassen: Comparative study of organic matter within phosphatic grains and their exogangue (Ras-Draâ deposit-Tunisia). Relevance to phosphatic pellets genesis.
- 3-2 V. Cuculic: Trace metals and dissolved organic carbon in water column of an anchialine object in Mljet National Park - Croatia.
- 3-3 N. Mihalopoulos: Coupling between atmosphere and seawater in Black Sea: an intergrated approach.
- 3-4 H. Zhao: Characterisation of natural organic matter in depth profile of the Mediterranean Sea by 3D-Fluorescence followed by PARAFAC treatment.
- 3-5 C. Santinelli: DOC export below the mixed layer in the Southern Adriatic Sea.

#### Ocean Acidification

- 3-6 N. Ait-Ameur: Distribution du  $\delta pCO_2$  et des flux air-mer de  $CO_2$  dans le Golfe du Lion (Méditerranée Occidentale).
- 3-7 F. Gazeau: MERMEX : Marine Ecosystems Response in the Mediterranean Experiment. WP4: Natural and anthropogenic air-sea interactions.
- 3-8 P. Rivaro: Variability in total alkalinity, pH and flux of  $CO_2$  along a transect in the Southern Tyrrhenian Sea.

#### Present/past biogeochemical cycles

- 3-9 D. Berto: Origin of sedimentary organic matter and humic acids in the Grado and Marano Lagoon.
- 3-10 A. Borges: Carbon dioxide dynamics and air-sea  $CO_2$  fluxes in the SES : Synthesis of the SESAME cruises.
- 3-11 A. Krastev: Vertical hydrochemical structure of the Western Black Sea area in 2007 – 2008 period.
- 3-12 R. Lavezza: Spatio-temporal variations of biogeochemical processes in the Mediterranean Sea.
- 3-13 E. Liger: Effects of the hydrological conditions on the spatial distribution of chlorophyll *a* and nutrients concentrations in an upwelling area of the Alboran Sea.
- 3-14 E. Malinverno: Export production and seasonality of coccolithophores and diatoms in the pelagic Ionian Sea.
- 3-15 J. Mercado: Isotopic composition of nitrogen in suspended particulate matter of the Alboran Sea.
- 3-16 A. Pavlidou: Dissolved oxygen and nutrient distribution in North Aegean Sea.
- 3-17 F. Sakellariadou: Geochemical studies of the environmentally mobile metal fraction in box cores from the Messiniakos Gulf (Greece).



- 3-18 F. Sert: Spatial Distributions of Nutrients in the North East Mediterranean during 2008 – 2009.
- 3-19 F. Sert: Relationship between the distribution of organic matter and nutrients in the Northeast Mediterranean (Mersin Bay).
- 3-20 V. Vojvodic: Long term study of organic matter fluctuation and mucilage events in the Northern Adriatic.
- 3-21 M. Zavatarelli: Simulating the interannual variability of the Adriatic Sea ecosystem dynamics.

### Contaminants

- 3-22 B. Alpar: Composition, spatial variability and sources of sediment PAHs in two neighboring aquatic environments.
- 3-23 B. Andral: Chemical contamination of Western coastal Mediterranean waters: The MYTILOS project.
- 3-24 E. Balcioglu: Oil pollution in the surface water of the Aegean Sea in 2007 and 2008.
- 3-25 I. Batel: DNase activity as a new biomarker for marine environmental contamination: field study.
- 3-26 H. Belkhodja: The limpet: *Patella caerulea* as biomonitors of the heavy metal levels in Tunisian North coasts, Mediterranean Sea.
- 3-27 A. Bellante: Distribution of mercury in tissues and organs of two cetacean species (*Stenella coreuleoalba* and *Tursiops truncatus*) stranded along the Italian coasts.
- 3-28 M. Bernardello: Analytical determination of nonylphenols and octylphenols in surface water samples.
- 3-29 C. Bizsel: Aquaculture-derived organic matter in the sediment.
- 3-30 A. Borges: Three years of results from a mooring over a *Posidonia oceanica* seagrass meadow (Corsica, France).
- 3-31 M. Botter: Heavy metal contamination in sediments of the shallow water areas surrounding the city of Venice (Italy).
- 3-32 M. Boulahdid: Etude de l'évolution de la contamination par les métaux dans les sédiments de la baie d'Alger.
- 3-33 S. Bouzid: Hydrocarbons levels in molluscs (bivalves) in the Moroccan Western Mediterranean Sea.
- 3-34 S. Bouzid: Les hydrocarbures de la phase particulaire des eaux de la Baie de Tanger (Déroit de Gibraltar).
- 3-35 S. Burak: Land based and ship originated pollution in the Turkish straits system.
- 3-36 A. Castelli: Heavy metals distribution in marine sediments of the East Adriatic Sea.
- 3-37 L. Chouba: Evaluation des teneurs en Cadmium, Plomb, Mercure et en Benzo(a)pyrène dans la chair de *Ruditapes decussatus* du littoral tunisien.
- 3-38 D. Cossa: Mercury bioaccumulation in the european hake (*Merluccius merluccius*) from the Gulf of Lions and the Bay of Biscay.

- 3-39 E. Dassenakis: Polycyclic Aromatic Hydrocarbons in the area of a Greek petroleum refinery.
- 3-40 E. Dassenakis: The distribution of Zn in seawater and sediments of a coastal marine area affected by industrial activities (NW Saronikos Gulf).
- 3-41 H. Ergül: The effect of weight and condition index in mussel on heavy metal concentrations in Izmit Bay.
- 3-42 J. Gonzalez: Utilisation des échantillonneurs passifs pour l'évaluation de la contamination chimique des eaux marines: application à la Méditerranée française.
- 3-43 I. Hamdi: Evaluation du transfert du Cadmium le long de la chaîne trophique dans la région de Skhira (Golfe de Gabes).
- 3-44 I. Hatzianestis: Levels and temporal trends of organochlorine compounds in marine organisms from Greek waters.
- 3-45 R. Jeffree: Phylogenetic consistencies in radionuclide and metal accumulation by teleost and chondrichthyan fishes of the Mediterranean.
- 3-46 A. Karademir: Heavy metal concentrations in biota, sediment and sea water samples from Diliskelesi region.
- 3-47 I. Ketata Khitouni: Variation des teneurs en éléments minéraux dans le muscle de quatre espèces de poissons.
- 3-48 I. Ketata Khitouni: Seasonal variation of the global chemical composition of fish: Annular sea bream *Diplodus annularis* (L., 1758).
- 3-49 F. Koçbas: Heavy metal levels in macroalgae from Sinop in the Black Sea.
- 3-50 A. Koubaa: Variation saisonnière des teneurs en éléments minéraux et en métaux lourds de quatre espèces de poissons du Golfe de Gabes.
- 3-51 A. Koubaa: Variation saisonnière des teneurs en eau et en lipides et de la composition des acides gras du rouget de roche (*Mullus surmuletus*) du Golfe de Gabes.
- 3-52 F. Kucuksezgin: Bioaccumulation of heavy metals by the brown algae *Cystoseira* sp. along the Turkish coast of the Aegean Sea.
- 3-53 A. Lök: Heavy metal concentrations in the Mediterranean mussels (*Mytilus galloprovincialis*) collected from the Dardanelles.
- 3-54 W. Masmoudi: Distribution des résidus de polychlorobiphényles dans le sédiment superficiel du golfe de Tunis, Mer Méditerranée.
- 3-55 S. Matijevic: The influence of submarine wastewater system on chemical and biological parameters in the water column and sediment at the middle Adriatic (Croatia).
- 3-56 M. Mlakar: Trace metals in bivalves' soft tissue from Mljet National Park Aquatorium, Croatia.
- 3-57 N. Neofitou: The effect of shellfish farming on the water column nutrient concentration of the Eastern Mediterranean.

- 3-58 R. Oral: Toxicity–chemistry relationships in sediments collected from Black Sea.
- 3-59 A. Osterc: I-129 levels in marine environment along the Slovenian coast .
- 3-60 B. Ouda: Rainwater tracing using environmental isotopes in the Morocco.
- 3-61 B. Özden:  $^{210}\text{Po}$ ,  $^{210}\text{Pb}$ ,  $^{137}\text{Cs}$  and heavy metal concentrations in mussels, fish species, sediments and sea water in Didim, Turkish coast of Aegean Sea.
- 3-62 K. Parinos: Benthic bacterial response to nutrient-rich riverine waters under gradually changing dissolved oxygen concentrations. Results of a simulating experiment.
- 3-63 I. Pazi: Heavy metal contamination in Candarli Bay sediment: Eastern Aegean Sea.
- 3-64 S. Ravlic: Mussel DNase activity as a new biomarker for environmental contamination: response to model pollutants.
- 3-65 E. Uluturhan: Assessment of heavy metal contamination in surface sediments of the Homa Lagoon in the Izmir Bay (Eastern Aegean).
- 3-66 S. Unlu: Hydrocarbon concentrations in surface sediments from Ambarli Harbor (Sea of Marmara, Turkey).
- 3-67 V.A. Catsiki: Estimation of the Greek coastal zone contamination by the means of bioindicators.

### C4. Marine Microbiology and Biotechnology

#### Marine diversity and biological activities

- 4-1 C. Caroppo: *Leptolyngbya* species isolated from the sponge *Petrosia ficiformis* as potential source of novel compounds.
- 4-2 P. Ciftci: A study on the degradation ability of the bacteria isolated from the sea of Marmara in oil hydrocarbons, Turkey.
- 4-3 M. El Bour: Occurrence of lactic acid bacteria (lab) in farmed sea bass (*Dicentrarchus labrax*) and sea bream (*Sparus aurata*) Southern of Tunisia.
- 4-4 L. Ktari: Microfouling community in Bay of Carthage (Northern Tunisia): Preliminary identification and bioactive properties.
- 4-5 A. Mouradi: *Dunaliella salina* a pilot scale culture system in Morocco.
- 4-6 I. Rabeh: Analysis of lipid classes and fatty acid composition in muscle of the grey mullet *Chelon labrosus* living in Tunisian geothermal water.
- 4-7 N. Rosoiu: Small sea fish as source of glycosaminoglycans, essential amino acids, essential fatty acids and microelements used for pharmaceutical purposes.

- 4-8 L. Stabili: Antibacterial activity of *Gracilariopsis longissima* (rhodophyta, gracilariales) lipidic extract.

### **New microbiological techniques/biotechnological approaches**

- 4-9 N. Bouriga: Effects of drying process on lipid quality of silverside (fish) *Atherina lagunae*.
- 4-10 R. Cannas: Microsatellite markers for population genetic studies of the giant red shrimp *Aristaeomorpha foliacea* (Crustacea, Decapoda).
- 4-11 G. Caruso: Abundance and distribution of actively respiring bacteria in a coastal-offshore transect of the Tyrrhenian Sea (April 2007).
- 4-12 S. Boukef: Utilisation de la PCR Multiplex pour la caractérisation de *Salmonella enterica* ser. *Typhimurium* chez la palourde *Ruditapes decussatus*.
- 4-13 J. Fortuño: SEM microphotographs of biofouling organisms on floating and benthic plastic debris?
- 4-14 I. Hamdi: Etude par cytométrie en flux de la distribution spatiale du peuplement microbien dans le Golfe de Gabes.
- 4-15 V. Lentini: Archaeal diversity at shallow hydrothermal system off Panarea (Eolian Archipelago, Italy) as revealed by 16 S rDNA PCR-DGGE analysis.
- 4-16 G. Sansone: Phytoplankton production in a recirculating aquaculture system: Effect of different seawater sterilization methods.
- 4-17 C. Sanz-Lázaro: Biofilm community as a tool for monitoring dissolved aquaculture wastes.
- 4-18 I. Uzonur: Novel approaches to molecular diagnostics of *Prorocentrum minimum* in the Golden Horn estuary, the Sea of Marmara.

### **Plankton distribution and productivity**

- 4-19 N. Balkis: Distribution of nutrients and chlorophyll-a in the coastal area of the Bosphorus (Turkey).
- 4-20 M. Calic: Seasonality of dinoflagellates in oligotrophic ecosystem of Middle Adriatic.
- 4-21 M. Caric: Annual distribution of nutrients and phytoplankton in the marine Lake Mir (Middle Adriatic).
- 4-22 P. Delnegro: Virioplankton distribution related to bacterial metabolic status during an autumn survey in the Northern Adriatic Sea.
- 4-23 D. Drakulovic: Phytoplankton assemblages and density in the Montenegrin coastal sea.
- 4-24 C. Facca: Phytoplanktonic communities in eutrophic coastal lagoons of the Northern Adriatic Sea, Italy.
- 4-25 M. García-Martínez: Spatial and temporary distribution of phyto and bacterioplankton communities in Western Mediterranean Sea. Annual cycles and time series evolution.

- 4-26 C. Garnier: Spatial variability of plankton communities in a semi-closed disturbed Mediterranean ecosystem (Toulon Bay, France).
- 4-27 O. Gotsis-Skretas: Phytoplankton carbon-biomass in the Mediterranean Sea.
- 4-28 H. Khemakhem: Study of phytoplankton abundance and diversity in the solar saltern of Sfax (Tunisia).
- 4-29 B. Kutlu: Nutrient enrichment bioassay in the Homa Lagoon (Izmir Bay, Aegean Sea).
- 4-30 B. Kutlu: The comparison of Ks values of *Chaetoceros gracilis* isolated from the Bay of Izmir and Homa Lagoon.
- 4-31 A. Mouradi: Les dinophysiales du Maroc.
- 4-32 R. Rebai: Abundance and biomass of filamentous cyanobacteria in a Mediterranean salt marsh.
- 4-33 L. Stabili: Virioplankton and bacterioplankton dynamic in an Italian coastal area of the Southern Adriatic Sea subjected to pollution.
- 4-34 M. Türkoglu: Short Time Variations of Chlorophyll a and Nutrients in the Dardanelles, Turkey.
- 4-35 D. Unal: High Nitrate supply induces chlorophyll degradation *Chlorella* sp.
- 4-36 S. Zizah: Variabilité journalière et verticale du phytoplancton d'une zone côtière de la côte Sud Atlantique marocaine.

### Harmful algal bloom

- 4-37 O. Blasutto: First record of *Ostreopsis ovata* bloom in the Gulf of Trieste (Northern Adriatic Sea).
- 4-38 C. Caroppo: First data on the benthic assemblages of harmful microalgal species in the Gulf of Taranto (Northern Ionian Sea).
- 4-39 Z. Drira: Le phytoplancton toxique au niveau du Golfe de Gabes durant quatre campagnes océanographiques (2005-2007).
- 4-40 C. Ingarao: Tropical harmful phytoplankton species along Abruzzo coast (W Adriatic).
- 4-41 F.S. Sunlu: Growth kinetics of two diatoms *Skeletonema costatum* and *Thalassiosira* sp. from Izmir Bay (Eastern Aegean Sea /Turkey).

### Environmental health

- 4-42 S. Khannous: Evaluation de la qualité bactériologique de la frange côtière de Tétouan «Kabila - Oued Laou».
- 4-43 G. Altug: Distribution and antibiotic resistance of heterotrophic and indicator bacteria in the coastal areas of Turkey, Syria and Lebanon.
- 4-44 I. Boukef: Survival of pathogenic *Escherichia coli* O55B5 in brackish water.
- 4-45 A. Küçükgül Güleç: Research of serum amyloid a and transferrin levels followed after *Streptococcus iniae*-infected in Tilapia (*Oreochromis niloticus*).

- 4-46 M. Peirache: Rapid enzymatic method for the enumeration of faecal bacteria (*Enterococci*) in bathing seawater.
- 4-47 S. Polain: Enumeration of fecal indicator bacteria, in Calvi Bay (Corsica).
- 4-48 N. Sivri: Antibiotic resistance of enteric bacteria isolated from South-Western Istanbul coast (Turkey).
- 4-49 M. Smolaka: Proliferative status determination of benthic invertebrates coelomocytes/hemocites.
- 4-50 Ç. Yigin: Microbiological quality of the striped venus (*Chamelea gallina*) and wedge clam (*Donax trunculus*) harvested in Marmara Sea, Turkey.

### C5a. Marine Ecosystems and Living Resources

#### Alien species

- 5a-1 D. Aksit: Morphological and ecological characteristics of *Malvufundus regulus* Forskall, 1775 found in Antalya Bay, Turkey.
- 5a-2 I. Aydin: The occurrence of the jinga shrimp, *Metapenaeus affinis* (H. Milne Edwards, 1837) (Decapoda, Penaeidae) – a commercially valuable alien.
- 5a-3 J. Ben Souissi: *Sphaeroma walkeri* Stebbing, 1905 (Crustacea, Isopoda, Sphaeromatidae) introduced and established in Tunisia waters.
- 5a-4 N. Cukrov: First record of the introduced fouling tubeworm *Ficopomatus enigmaticus* (Fauvel, 1923) in the Eastern Adriatic Sea, Croatia.
- 5a-5 J. Dulcic: The Adriatic ichthyofauna: updates and extensions (2002-2009).
- 5a-6 E. Duzgunes: Introduced species and their impacts in the Black Sea.
- 5a-7 D. Erguden: The presence of Indo-Pacific puffer fish *Torquigener filavimaculosus* Harddy & Randall, 1983 in the Iskenderun Bay, the Eastern Mediterranean coast of Turkey.
- 5a-8 S.P.M. Iarrera: Alien molluscs and crustacean decapods in the Straits of Messina (Central Mediterranean Sea).
- 5a-9 G. Innocenti: On the prevalence of an alien rhizocephalan parasite at the Southern and Northern limits of its introduced range.
- 5a-10 G. Metin: Length–weight relationships of the alien jinga shrimp, *Metapenaeus affinis* (H. Milne Edwards, 1837) (Decapoda, Penaeidae) in the Mediterranean Sea.
- 5a-11 M. Pancucci-Papadopoulou: The chronicle of alien species in Dodecanese islands: a pathway of introduction in European coastal waters.
- 5a-12 C. Preda: Alien invasive species established in fouling communities from Constanta harbor, Romania - a pilot study.
- 5a-13 G. Quilez-Badia: Iberian Peninsula marine and estuarine invasions: Past, present and future.

- 5a-14 D. Savini: *Percnon gibbesi* (H. Milne Edwards, 1853) in Linosa Island ten years after its first record.

### **Biology and ecology of early life stages**

- 5a-15 G. Aiudi: Use of laparoscopy for the evaluation of the reproductive apparatus of eel (*Anguilla anguilla*).
- 5a-16 M.F. De Puelles: Summer fish larval assemblages in four areas of the Central Mediterranean.
- 5a-17 A. Gastoni: Ovaries development of *Parapenaeus longirostris* (Crustacea, Penaeidae) in the Sardinian waters.
- 5a-18 A. Lamrini: Croissance et reproduction du rouget barbet de roche (*Mullus surmuletus* L. 1758) dans la baie de M'diq (Maroc).
- 5a-19 B. Morales-Nin: Age determination of larval and juvenile small pelagics: the importance of a common protocol.
- 5a-20 N. Nesto: Spawning induction, fertilization and larval development of *Hediste diversicolor* (Nereididae, Polychaeta) under different experimental conditions.
- 5a-21 M. Panfili: Growth rates of early life stages of *Engraulis encrasicolus* and *Sardina pilchardus* in the Adriatic Sea (Italy).
- 5a-22 M. Petric: Aspects of the reproductive biology of the squat lobster *Munida rutilanti* Zariquiey Alvarez, 1952 (Decapoda, Galatheididae) in the Adriatic Sea.
- 5a-23 P. Rinelli: A comparison between the macroscopic and microscopic staging of ovaries in *Aristaeomorpha foliacea* (Risso, 1826).
- 5a-24 A. Russo: Numerical simulations of small pelagic fishes eggs and larvae in the Adriatic Sea.
- 5a-25 A. Yükses: Changes on ichthyoplankton diversity in Golden Horn Estuary, Turkey.

### **Fish communities and trophic habits**

- 5a-26 B. Bayhan: Feeding habits of *Cepola macrophthalma* (Pisces, Cepolidae) in Izmir Bay, Aegean Sea.
- 5a-27 S. Cabiddu: Trophic habits of red scorpionfish *Scorpaena scrofa* (Osteichthyes, Scorpaeniformes) in the central Western Mediterranean.
- 5a-28 S. Cabiddu: Preliminary data on the trophic interactions between *Scyliorhinus canicula* (Scyliorhinidae) and *Raja clavata* (Rajidae) in the central-Western Mediterranean.
- 5a-29 H. Kadri: Régime alimentaire du pocheteau noir, *Dipturus oxyrinchus*, dans le golfe de Gabes (Tunisie).
- 5a-30 P. Karachle: Food and feeding habits of nine elasmobranch species in the N Aegean Sea.
- 5a-31 E. Murat Dalkara: Investigation on the feeding habits of European hake *Merluccius merluccius* (Linnaeus, 1758) in the North Marmara Sea.

- 5a-32 W. Refes: Inventaire de la faune ichthyologique du secteur oriental de la côte Algérienne (El Kala – Annaba – Skikda – Jijel – Béjaïa).
- 5a-33 P.J. Schembri: Feeding habits of the small-spotted catshark *Scyliorhinus canicula* (L., 1758) in the central Mediterranean.

**Ecology of marine mammals, turtles and sea birds**

- 5a-34 M. Aïssi: Partitioning of the Northern Tunisian coasts into hotspots of cetacean distributions.
- 5a-35 J. Antolovic: Analysis of sightings of monk seal (*Monachus monachus*, Hermann1779) in the Croatian part of the Adriatic 2006-2009.
- 5a-36 M.G. Pennino: Group dynamics of bottlenose dolphins engaging in gill-net feeding activities in the Bocche di Bonifacio international marine park (Italy-France).
- 5a-37 A. Saad: Six years of survey (2004-2009) on reproduction of sea turtles on Shkaïfate beach, Syrian coast (proposed as protected area).
- 5a-38 A. Vella: First research sightings of fin whales (*Balaenoptera physalus*) in coastal waters of the Maltese islands, central-Southern Mediterranean.
- 5a-39 D. Yaglioglu: The morphological differences between individuals live and dead green turtles (*Chelonia mydas*) hatchlings on Samandag beach in Turkey.

**Fishing down food webs vs high trophic aquaculture**

- 5a-40 A. Blanco: Waste fluxes determinations of an integrated multitrophic fish farm by stable isotopes ( $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$ ).
- 5a-41 B. Busalacchi: Gastroscopic, laparoscopic and pathological findings in experimental anisakiasis in sea bass.
- 5a-42 G. Cambiè: Depth and mesh size effect on discarding practices in trammel net fishery.
- 5a-43 M. Demestre: Structure of infaunal communities under variable trawling disturbance.
- 5a-44 M. Demestre: Evaluation of the level of trawling perturbation on soft bottoms using acoustic remote sensing as a promising approach for fishing effort estimation.
- 5a-45 N. Demirel: Distribution of *Merluccius merluccius* (Linnaeus, 1758) and *Merlangius merlangus* (Linnaeus, 1758) in the Sea of Marmara (1992-1995).
- 5a-46 A. Kallianiotis: On board trawl sampling in the Thermaikos Gulf. seasonal quantitative and qualitative composition of the catch.
- 5a-47 Ç. Keskin: Distribution of demersal fish species in the Black Sea, Sea of Marmara and North Aegean Sea.
- 5a-48 S. Lakkis: Marine biodiversity and fishery resources in Syro-Lebanese coastal waters (Levantine Basin).



- 5a-49 I. Rosca: Feeding selectivity of some benthic fish from the rocky bottom of the Romanian Black Sea coast (Agigea area).
- 5a-50 M. Sbrana: Comparison of trawl survey and commercial data on small pelagics from the FAO geographic sub-area 9 (Western Mediterranean).
- 5a-51 A. Siapatis: Spatial distribution of ichthyoplankton in Thermaikos and Chalkidiki Gulfs during June 2004.
- 5a-52 A.C. Tsikliras: Exploitation pattern of the Mediterranean fisheries.
- 5a-53 V. Vassilopoulou: Factors affecting discarding in the East Mediterranean trawl fishery.
- 5a-54 A. Zoubi: A comparison of the precision of red mullet (*Mullidae*) age determination by the use of different bony structures at the Strait of Gibraltar region.

### Miscellaneous

- 5a-54b M. Dural: Heavy metal concentrations in different tissues of *Mullus barbatus* and *Mullus surmuletus* from Iskenderun Bay, Eastern coast of Mediterranean, Turkey.
- 5a-55 A. Basusta: Ageing with alcian blue dyeing techniques for some elasmobranchs in Iskenderun bay, Eastern Mediterranean.
- 5a-56 L. Boudaya: Age and growth of *Chelidonichthys lastoviza* (Bonnaterre, 1788) in Tunisia.
- 5a-57 A. Bozkurt: Taxonomic analysis of Chaetognatha (*Sagittidae*) species in Iskenderun Bay.
- 5a-58 M. Buchholz-Sørensen: Preliminary population genetic structure of the endangered dusky grouper, *Epinephelus marginatus*, in Malta as revealed by six microsatellite markers.
- 5a-59 B. Busalacchi: Occurrence of *Ocythoe tuberculata* (Cephalopoda, Ocythoidae) in the Strait of Messina (central Mediterranean).
- 5a-60 F. Cavarero: Phenotypic variability of the killifish *Aphanius fasciatus* (Nardo, 1827).
- 5a-61 M. Crncevic: Assessment of morphometric parameters of tuna *Thunnus thynnus* (Linnaeus, 1758) based on museum exhibits, Dubrovnik Natural History Museum.
- 5a-62 K. Fadhlaoui-Zid: Mitochondrial DNA sequence variation in Tunisia sardine (*Sardina pilchardus*) stocks.
- 5a-63 M. Feki: Utilisation des parasites comme marqueurs biologiques pour la discrimination des stocks de *Sardinella aurita* des côtes Est de la Tunisie.
- 5a-64 J. Ferri: Otolith morphology and fish size relationships for five wrasse species in the Eastern Adriatic Sea.
- 5a-65 K. Fryganiotis: Contribution to the dietary analysis of the squid *Illex coindetii* (Cephalopoda, Ommastrephidae) at Thermaikos Gulf (North Aegean-Greece).
- 5a-66 M. Garcia Rodriguez: Influence of abiotic factors in the biomass of deep water shrimps, *Parapenaeus longirostris* and *Aristeus antennatus*, off Catalano-Levantine Mediterranean coast of Spain.

## MERCREDI 12 MAI / WEDNESDAY 12 MAY

- 5a-67 N. Ghazali: Etude de la composition biochimique des organes osmoregulateurs de l'anguille européenne *Anguilla anguilla* acclimatée en eau douce et en eau de mer.
- 5a-68 S. Matic-Skoko: State and perspective of *Scorpaena scrofa* and *Mullus surmuletus* – two highly valued species of Eastern Adriatic artisanal fisheries.
- 5a-69 N. Milatou: Age and growth of fattening bluefin tuna (*Thunnus thynnus* L., 1758) in the Eastern Mediterranean Sea.
- 5a-70 F. Moya: Relationships between *Octopus vulgaris* landings and environmental factors in the Northern Alboran Sea: an attempt to develop a predictive model.
- 5a-71 T. Onciu: Considerations regarding the free-living marine nematoda in the Northern area of the Romanian Black Sea coast.
- 5a-72 A. Pesic: L-W relationship of sardine, *Sardina pilchardus* (Walb, 1792), in the Montenegrin waters.
- 5a-73 G. Petrakis: A scale of damaged fish (SDF).
- 5a-74 P. Rinelli: On the presence of *Clavella stellata* (Copepoda:Lernaeopodidae) (Kroyer 1838) in the European hake (*Merluccius merluccius*) (L.1758).
- 5a-75 A. Sabatini: Geographical and bathymetrical distribution of red shrimps in Sardinian waters related to environmental conditions.
- 5a-76 H. Saglam: Some biological parameters of sprat *Sprattus sprattus phalericus* (Risso1826) in the Turkish Black Sea coast.
- 5a-77 P. Sanchez: Trophic relationship between *Loligo vulgaris* and *Posidonia oceanica* in Catalan waters (NW Mediterranean).
- 5a-78 S. Serdar: Variations of carpet shell clam (*Tapes decussatus*, Linnaeus 1758) benthic juveniles in Çakalburnu Lagoon, Izmir, Turkey.
- 5a-79 D.D. Skaramuca: Blood cell count of *Muraena helena*, L.1758. from Eastern Adriatic Sea near Dubrovnik, Croatia.
- 5a-80 N. Spanò: Shark records in the Straits of Messina (Central Mediterranean Sea): *Hexanchus griseus* (Bonnaterre, 1788).
- 5a-81 A. Tadros: Assessment of marine paints based on tubeworms and *Sepia* shell.
- 5a-82 K. Telahigue: Osmotic stress effects on the biochemical composition of the digestive gland of the scallop *Flexopecten glaber*.
- 5a-83 C. Turan: Phylogenetic relationship among the black sea alosa species from mtDNA ND5/6 sequences.
- 5a-84 N. Vella: A preliminary study of the bluntnose sixgill shark, *Hexanchus griseus*, in the central Mediterranean region, around the Maltese islands.

- 5a-85 S. Yigitkurt: Determination of cell density of *Tetraselmis suesica* by using spectrophotometer.

### C5b. Marine Ecosystems and Living Resources

#### 13:45 - 13:50 Poster Session - Introduction

##### Coastal versus offshore ecology

- 5b-1 M. Batistic: Changes in the non-crustacean zooplankton in the Adriatic Sea underline compound effects of anthropogenic forces and global warming.
- 5b-2 H. Ben Ismail: Biochimique de quelques d'espèces d'holothuries des côtes tunisiennes.
- 5b-3 L. Cavas: Determination of oxidative stress precursors of bleached and non-bleached anemones from Turkish coastlines.
- 5b-4 M. Gurlek: Feeding habits of Indo-Pacific species *Nemipterus randalli* Russel, 1986 (Nemipteridae) in Iskenderun Bay, Eastern Mediterranean Sea.
- 5b-5 F. Karakulak: Age estimation of albacore (*Thunnus alalunga*) caught by purse seine in Turkish waters based on dorsal spine reading.
- 5b-6 M. Muresan: Present structure and distribution of macrobenthic populations in the North - Western Black Sea – Romanian shelf.
- 5b-7 E. Özsoy: An Assessment of the State of Marine Ecosystems around Turkey during SESAME (Black Sea, Turkish Straits System and the Levantine Basin).
- 5b-8 V. Surugiu: Qualitative and quantitative assessment of the macrobenthic populations of crustaceans from the North - Western part of the Black Sea.
- 5b-9 V. Surugiu: Recent data in the hard bottom communities from the Romanian Black Sea coast.

##### Marine reserves and biodiversity

- 5b-10 F.A. Abdel Razeq: Observations on the abundance of Holothurian species along the Alexandria coast, Egypt.
- 5b-11 W. Belgacem: Dynamique spatio-temporelle des populations d'invertébrés vagiles associées à l'herbier *Posidonie* sur la côte Nord-Est de la Tunisie.
- 5b-12 O. Ben Hadj Hamida-Ben Abdallah: Evaluation et cartographie de la répartition géographique des stocks de coquillages bivalves dans la zone estran de l'archipel de Kerkennah.
- 5b-13 C.F. Boudouresque: Decline of the *Posidonia oceanica* seagrass meadow at its lower limit in a pristine Mediterranean locality.
- 5b-14 A. Ceregato: The crinoid garden of Montecristo Island marine sanctuary (Tuscan Archipelago National Park, Mediterranean sea).

## MERCREDI 12 MAI / WEDNESDAY 12 MAY

- 5b-15 B. Çiçek: Evaluation of marine vertebrate biodiversity of North Cyprus coastal zone according to Natura 2000 habitat types.
- 5b-16 M. Culha: Marine mollusc fauna of Kastamonu and Sinop coasts (the Southern Black Sea, Turkey).
- 5b-17 V. Demir: Marine sponges from Datça-Bozburun peninsula - a specially protected area in the South Eastern Aegean Sea (Turkey).
- 5b-18 H. El Lakhrah: Répartition des crustacés décapodes dans le Golfe de Gabes.
- 5b-19 M. Fadhlouï: Contribution à l'étude de la petite faune vagile des herbiers de la lagune Nord de Tunis.
- 5b-20 D. Fernández Márquez: Impacts of recreational scuba diving on benthic assemblages in Cabo de Palos-Islas Hormigas marine reserve.
- 5b-21 F. Fiorentino: First record of the canary drum *Umbrina canariensis* Valenciennes, 1843 (Pisces, Sciaenidae) in the Sicilian Channel (Central Mediterranean).
- 5b-22 M. Follesa: Note on historical and present exploitation of *Corallium rubrum* (Linneo, 1758) in the central Western Mediterranean.
- 5b-23 C. Hussein: Assessing the impact of fishing and protection on the dynamics of the sea bream population in the North-Western Mediterranean Sea using a simulation mode.
- 5b-24 S.Ü. Karhan: On a collection of Nudibranch Gastropods (Mollusca, Opisthobranchia) from the Levantine coast of Turkey.
- 5b-25 S. Kascelan: Spatial distribution and ecology of family Holothuriidae (Echinodermata) on the South Adriatic shelf (Montenegro).
- 5b-26 J.B. Ledoux: Genetic subdivisions of the red coral (*Corallium rubrum*) in the Mediterranean Sea: evolutionary history and management implications.
- 5b-27 S. Marouani: Age, growth and age at sexual maturity of the longnose spurdog, *Squalus blainvillei*, in the Gulf of Gabès (Tunisia).
- 5b-28 D. Massi: New findings of the rare black brittlestar *Ophiocomina nigra* (Abildgaard, in O.F. Muller, 1789) (Echinodermata, Ophiacanthidae) in the Sicilian Channel.
- 5b-29 D. Mouillot: The mid domain effect in the Mediterranean Sea: do geometric constraints shape fish diversity patterns?
- 5b-30 A. Palialexis: Introducing associative neural networks to marine habitat modeling using acoustic and remote sensed data.
- 5b-31 A. Papadopoulos: Aspects of artisanal fishery in the national marine park of Alonnisos - Hellas.
- 5b-32 E. Prato: Fish assemblage of the mar piccolo basin of Taranto (Southern Italy): composition and structure.

- 5b-33 A. Shili: Variations saisonnières de la biomasse de *Nanozostera noltii* (Hornemann) Tomlinson et Posluzny dans la lagune Nord de Tunis (Tunisie septentrionale).
- 5b-34 A. Shili: Répartition de *Syngnathus abaster* et *Syngnathus typhle rondeleti* (Syngnathidae) dans la Lagune Nord de Tunis.
- 5b-35 P. Tutman: Diel fluctuations in juvenile dominated fish assemblages associated with shallow seagrass and bare sand in Southern Adriatic Sea, Croatia.
- 5b-36 E. Voultziadou: Bath sponges from a marine protected area in the Aegean Sea.

### From fish to jelly seas

- 5b-37 F. Carlotti: The influence of hydrodynamic processes on zooplankton transport and distributions in the North Western Mediterranean Sea estimated from a Lagrangian model.
- 5b-38 A. Collignon: Interannual variation (2003-2008) of *Calycophoran siphonophores* in the Bay of Calvi (Corsica).
- 5b-39 L. Orsi Relini: Medusivorous fishes of the Ligurian Sea 1. Chub mackerels and other pelagic fish species sometimes "have the medusa" *Pelagia noctiluca*.
- 5b-40 L. Orsi Relini: Medusivorous fishes of the Ligurian Sea 3. The young giant, *Mola mola* at the Camogli tuna trap.
- 5b-41 F. Garibaldi: Medusivorous fishes of the Ligurian Sea 2. The specialist, *Schedophilus medusophagus* Cocco, 1839.

### Deep sea biodiversity

- 5b-42 S. Aliani: Benthic prokaryotic and macrofaunal communities in the deep Ionian and Aegean (Mediterranean Sea) and in the Galicia bank (Atlantic Ocean).
- 5b-43 J. Baro: Comparison of discards obtained using different mesh sizes and shapes in the codend of the trawl.
- 5b-44 O. Gönülal: A contribution on the distribution of the giant red shrimp *Aristaeomorpha foliacea* (Risso, 1827) along the Aegean Sea and Mediterranean part of Turkey.
- 5b-45 O. Kasalica: Population dynamics of deep-water pink shrimp *Parapenaeus longirostris* (Lucas, 1846) at Montenegrin shelf (South Adriatic).
- 5b-46 B. Najar: Évolution des profils des débarquements de poissons dans la région de Gabès, Tunisie.
- 5b-47 B. Öztürk: A preliminary study on two seamounts in the Eastern Mediterranean Sea.

### Miscellaneous

- 5b-48 P. Addis: Population study of the fan mussel *Pinna nobilis* L., in two areas of Sardinia (W-Mediterranean).
- 5b-49 A. Almogi-Labin: Thermal pollution impact on benthic forameniferal assemblages as analog to global warming, SE Mediterranean shore (Israel).

- 5b-50 N. Annabi-Trabelsi: Biologie et dynamique du copépode calanoïde *Copidodiaptomus numidicus* dans le réservoir Beni Mtir (Nord de la Tunisie).
- 5b-51 C. Antoniadou: Biodiversity of zoobenthos associated with a *Cladocora caespitosa* bank in the North Aegean Sea.
- 5b-52 D. Ayas: Comparison of fatty acid, trace element and proximate compositions of male and female of blue crabs and swim crabs from Mersin Bay, Turkey.
- 5b-53 D. Ben Ismail: Les Bryozoaires épiphytes des herbiers à *Posidonia oceanica* des côtes Tunisiennes.
- 5b-54 A. Berraho: Etude du plancton de la zone Fnideq-Oued Laou (Méditerranée Ouest Marocaine).
- 5b-55 D. Boussoufa: Characterisation and seasonal variation of lipid and fatty acid composition of coquina clam, *Donax trunculus* (Mollusca, Bivalvia) from the Gulf of Tuniside Sfax (Golfe de Gabès, Tunisie).
- 5b-56 E. Can: An evaluation about the colour variation of *Carcinus aestuarii* Nardo, 1847 with particular references to the features of *Carcinus maenas* (Linnaeus, 1758).
- 5b-57 I. Chetoui: Composition biochimique d'un mollusque bivalve : *Macra corallina* du Golfe de Tunis (Kalaat El Andalous).
- 5b-58 P. Damianidis: Qualitative study of benthic Foraminifera in Thermaikos Gulf (N. Aegean Sea).
- 5b-59 P. Damianidis: Biology of *Callista Chione* (L., 1758) in Thermaikos Gulf (N Aegean Sea).
- 5b-60 F. Derbal: Preliminary data on a new strain of I (Crustacea, Branchiopoda) from El-Bahira lake (Northeast Algeria).
- 5b-61 F. Fava: Benthic assemblages on concrete artificial reefs in the Northern Adriatic Sea: Comparison between Tecnoreef® pyramids and cubic bundles of tubes.
- 5b-62 L. Gargouri Ben Abdallah: Biodiversité des digènes parasites de quelques Sparidés provenant de la lagune de Bizerte.
- 5b-63 L. Gargouri Ben Abdallah: Identification du cycle de vie de *Proctoeces maculatus* récolté dans la lagune de Bizerte située au Nord-est de la Tunisie.
- 5b-64 M. Güler: Predatory effects of spiny seastar (*Marthasterias glacialis*, Linnaeus, 1758) on black mussel (*Mytilus galloprovincialis*, Lamarck, 1819).
- 5b-65 M. Güler: Gonad yield of *Arbacia lixula* (Echinodermata) within the Izmir Bay, Aegean Sea.
- 5b-66 I. Hammami: Caractérisation morphologique et génétique des populations lagunaires de *Lithognathus mormyrus* des côtes Tunisiennes.
- 5b-67 S. Katsanevakis: Impact of marine litter on sea life: a review.
- 5b-68 R. Laiz-Carrión: Variable growth of bullet tuna larvae (*Auxis rochei*) related to hydrographic scenarios off the Balearic Sea.

- 5b-69 G. Libralato: Sea water piling: traditional or alternative materials? An integrated biological and ecotoxicological evaluation in Venice lagoon (Italy).
- 5b-70 J. Navarro: Investigating the food web in the NW Mediterranean Sea with stable isotopes and modelling results.
- 5b-71 M. Orlando-Bonaca: Assessment of the ecological status of Slovenian coastal waters with macrobenthic biological elements.
- 5b-72 G. Paraschiv: New data about polychaeta communities from the St. George–Vadu, Romanian Black Sea littoral zone.
- 5b-73 M. Poulicek: *Symbiodinium* sp. can stay alive through the gut and in the faeces of cnidaria predators. The case of *Coralliophilla meyendorffi* and *Anemonia viridis*.
- 5b-74 C. Rebzani Zahaf: Caractérisation des peuplements algaux associés aux trottoirs à vermetes en Algérie.
- 5b-75 M. Samargiu: Interstitial harpacticoids from the shallow waters of the Romanian Black Sea coast.
- 5b-76 F. Sellem: Paramètres morphométriques des populations lagunaires et marines de l'oursin *Paracentrotus lividus* (L) des côtes Tunisiennes.
- 5b-77 A. Sley: Etude morphologique de la carangue coubali *Caranx crysos* (Osteichthyens, Carangidae) du golfe de Gabès (Tunisie).
- 5b-78 N. Trigui El Menif: Première description de malformation du pied chez le mollusque bivalve *Ruditapes decussatus* (Linne 1758) prélevé sur les cotes tunisiennes.
- 5b-79 I. Tsikopoulou: Feeding guild composition of a gastropod macrobenthic community in the North Aegean Sea.
- 5b-80 L. Tunesi: EUSEAMAP Project: modelling European seabed habitats - a focus on the Western Mediterranean.
- 5b-81 A.M. Vafeiadou: Density and biometry of the exploited holothurian *Holothuria tubulosa* at the Dodecanese, South Aegean Sea.
- 5b-82 N. Zamouri Langar: Évaluation du stock de palourdes (*Ruditapes decussatus*) des zones de production de Sfax (Golfe de Gabès, Tunisie).

### C6. Ecosystèmes côtiers / Coastal Ecosystems

#### Impacts of global climate change

- 6-1 F. Bradassi: Research tools for teaching: a scientific path for 14 year-olds to understand marine acidification; Ocean Acidification: bring research into classroom.
- 6-2 F. Cumani: Marine acidification effects on reproduction and growth rates of Corallinaceae spores (Rhodophyta).
- 6-3 M. Ghezzi: Climate change impacts on clam distribution in Venice lagoon: a modelling approach.

- 6-4 M. La Rivière: Spatial and temporal analysis of bacterial diversity associated with the Mediterranean gorgonian *Paramuricea clavata*.
- 6-6 F. Pranovi: Fishery data and climate change: evidence of a relationship from the Venice Lagoon?
- 6-7 B. Queguiner: The SPEciMed Project : Structures of Planktonic Ecosystems in the North-Western Mediterranean.

### Shoreline evolution

- 6-8 M. Bajo: Impact of Danube freshwater discharge on the coastal current system and implications on the sediment transport.
- 6-9 M. Krylenko: The nowadays state of the sea of Azov Russian coast.
- 6-10 A. Nounah: Apport du projet d'aménagement de la vallée du Bou Regreg sur la qualité environnementale de l'estuaire.
- 6-11 A. Palazov: Risk of inundation caused by sea level rise along the Bulgarian Black Sea coast.
- 6-12 J. Zaouali: Anthropisation et érosion biologique : cas du golfe de Tunis.

### Coastal biodiversity and ecology

- 6-13 N. Aloui Bejaoui: Répartition des polyplacophores dans le lac Nord de Tunis et caractérisation morphométrique de l'espèce dominante *Lepidochitona caprearum* (Scacchi, 1836).
- 6-14 N. Aloui Bejaoui: Comparaison du cycle sexuel de *Monodonta articulata* en milieu d'origine (iles Kerkennah) et après transfert sur site pollué.
- 6-15 A. Ayari: Etude comparative du rythme de l'activité locomotrice de *Talitrus saltator* issu de deux plages tunisiennes: Bizerte et Golfe de Gabès.
- 6-16 M. Ben Romdhane: Données écologiques sur la nouvelle espèce *Pomatias elegans* (Gastéropode, Prosobranchie, Pomatiidae Muller, 1774) trouvée au Nord de la Tunisie.
- 6-17 S. Bosak: Observations on *Pseudo-nitzschia* species in the Bay of Kotor, SE Adriatic Sea.
- 6-18 A. Deidun: Distribution and biology of two sympatric *Phaleria* species (Coleoptera: Tenebrionidae) on Maltese sandy beaches.
- 6-19 A. Deidun: Distribution of *Tylos* spp. (crustacea, isopoda) on Maltese sandy beaches and observations on *Tylos europaeus*.
- 6-20 W. Guerrazi: Distribution et abondance du zooplancton de la côte Nord de la ville de Sfax (Tunisie): comparaison de deux méthodes d'échantillonnage.
- 6-21 D.P. Hamer: Carbonic anhydrase in mussel *Mytilus galloprovincialis*: a preliminary study.
- 6-22 M. Koutrakis: Fish assemblages of two adjacent coastal lagoons in river Nestos Delta (NE Greece).



- 6-23 M. Koutrakis: Juvenile feeding habits of *Mugilidae* species from estuarine systems in North Aegean Sea.
- 6-24 V. Liousia: Fish fauna composition and abundance in two different estuarine habitats in the Ionian Sea.
- 6-25 B. Mériçot: Comparative analysis of genetic diversity of benthic species across the North-Western Mediterranean Sea: a pilot study for management perspectives.
- 6-26 K. Nasri-Ammar: Etude du rythme locomoteur d'*Orchestia montagui*, issu de la lagune de Bizerte (Nord Tunisien) en conditions d'entraînement et en libre cours.
- 6-27 M. Shaiek: Communauté actuelle de crabes (Brachyura, Decapoda, Crustacea, Artropodea) de la lagune de Bizerte (Tunisie septentrionale).
- 6-28 S.Z. Tlig: Diversité morphométrique de *Patella caerulea* (Linnaeus, 1758) du littoral rocheux des côtes tunisiennes.
- 6-29 I. Tsikopoulou: Are higher taxa adequate surrogates for species level richness in marine benthic mollusc communities?

### Coastal system structure and dynamics

- 6-30 E. Arashkevich: Spatio-temporal changes in structure and function of the coastal ecosystem in the NE Black Sea.
- 6-31 R. Buscail: Comparaison des caractéristiques environnementales et de la distribution de la matière organique dans deux lagunes Méditerranéennes : Bages-Sigean et Canet.
- 6-32 J.F. Cadiou: MESURHO: A high frequency oceanographic buoy at the Rhone river mouth.
- 6-33 J. Elloumi: Les sels nutritifs au niveau du littoral du Golfe de Gabès (Tunisie).
- 6-34 R. Kraus: Winter trends in the Northern Adriatic.
- 6-35 G. Shtereva: Hydrochemical specifics of the Kamchia river mouth and the adjacent Black Sea coastal area.
- 6-36 V. Yumruktepe: Eco-hydrodynamic modelling of eutrophication and nutrient cycles using Delft3D model for the Cilician basin.

### Environmental quality and human impacts

- 6-37 M. Azzopardi: Assessment of the ecological status of Maltese coastal waters using the Rhodophyta/Phaeophyta mean ratio index (R/P rt. I.).
- 6-38 M. Azzopardi: Changes in the macroalgal assemblage of the uppermost infralittoral fringe following a point oil spill in the grand harbour, Malta.
- 6-39 L. Chouba: Teneurs en hydrocarbures dans différents ports du Golfe de Tunis, Tunisie.
- 6-40 S. Daciana: The Romanian Black Sea macroalgae under current environmental quality of coastal waters.
- 6-41 Z. Drira: Spatial distribution of zooplankton during summer in the North Coast of Sfax (Eastern Mediterranean Sea, Tunisia).

- 6-42 P. Falco: Hydrocarbon dispersal in the Gulf of Naples: a parametric study.
- 6-43 S. Frascetti: Management and conservation of Mediterranean seascapes: are there better ways to go?
- 6-44 D. Gueddah: Évaluation préliminaire de l'impact de l'aménagement du port de pêche de Stora (Algérie) sur le milieu marin.
- 6-45 M. Hussein: Circulation, hydrography and primary production characteristics of the Syrian Marine waters, North-Eastern Mediterranean Sea.
- 6-46 V. Kapsimalis: Recent evolution of the Arachthos river estuary (NW Greece).
- 6-47 N. Katsiaras: A comparison of biotic indices in assessing ecological quality at the ne Aegean Sea (Mytilene Strait, Lesvos Island).
- 6-48 P. Kerhervé: Fluvial inputs and isotopic signal of organic matter discharged to the NW Mediterranean.
- 6-50 S. Krivokapic: Trophic condition in the Boka Kotorska Bay.
- 6-51 S. Matsiori: A scale for measuring people s opinion on the value of water resources.
- 6-52 C. Micheli: decadal changes in a *Posidonia oceanica* meadow at Monterosso al Mare (Ligurian Sea).
- 6-53 S. Nouacer: Évaluation éco toxicologique de l'impact des effluents de la station d'épuration du complexe pétrochimique de Skikda.
- 6-54 A. Pavlidou: Trophic state and nutrient ratios in a Hellenic coastal marine ecosystem affected by agricultural activities.
- 6-55 A. Raissouni: Cartographie de la sensibilité des sols à l'érosion, au niveau du bassin versant de l'Oued Laou (Rif Nord occidental, Maroc).
- 6-56 P. Rivaro: Hydrography, circulation and lagrangian dispersal in the Gulf of Vlora (Albania) during CISM project.
- 6-57 E.N. Topcu: a preliminary study on marine litter in the Aegean Sea.
- 6-58 S. Khannous: Contamination par les métaux lourds de la frange côtière de Tetouan: Kabila à l'embouchure d'Oued Laou.

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**End of Poster Session**

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### MORNING PANELS

with 10:30 – 11:00 Coffee break

**P5. 9:00 – 12:30. Mosaici 1**

**SESAME – MAIN FINDINGS**

Moderator: Vangelis PAPATHANASSIOU (HCMR, Athens, Greece)

Panelists: Marilaure GREGOIRE (Univ. Liège, Belgium); Emin OZSOY (METU, Mersin, Turkey); Micheal SKOURTOS (Univ. Aegean, Greece) and Marco ZAVATERELLI (Univ. Bologna, Italy)

*Emphasis on the added value of SESAME, including data base and dissemination activities targeting policy makers and stakeholders. Focus on assessing changes in the Mediterranean and Black seas ecosystems over the last 50 years, on assessing new data collected through multinational and multidisciplinary cruises, on simulation of future status and ability to provide goods and services through the integration of natural science and socio-economic studies.*

**P6. 9:00 – 12:30. Mosaici 2**

**NEW OPTIONS FOR SUSTAINABLE FISHERIES?**

Moderator: Sybille van den HOVE (MEDIAN, Barcelona, Spain)

Panelists: Ernesto AZZURO (ISPRA, Italy); Ferdinando BOERO (Univ. Salento, Lecce, Italy); Yves HENOCQUE (Ifremer, Paris, France); Pilar PEREDA PEREZ (IEO, Madrid, Spain) and Douglas WILSON (Univ. Aalborg, Denmark)

*Various experiments of collaborative research, involving original partnerships between fishery scientists and fishermen, are showing promising results worldwide for the recovery of certain fish species. This Panel will present some of these initiatives, discuss the reasons for their success and their limits, and examine how they could apply to fishery management in the specific Mediterranean context and in the face of increasing threats from gelatinous plankton blooms.*

**TECHNICAL SESSION TS3 09:30 – 12:00 Sala Amici**  
**MULTIBEAM MAPPING**



### AFTERNOON COMMITTEE SESSIONS

#### C1. Géosciences marines / Marine Geosciences

##### High resolution mapping, new technological tools

- 14:00 F. Braga: Coastal water assessment and monitoring by hyperspectral remote sensing techniques: selected applications in the Adriatic Sea.
- 14:10 F. Madricardo: 3D palaeochannel reconstruction in the Lagoon of Venice through geophysical exploration.
- 14:20 A. Savini: Deep sea habitat mapping at the Sant Maria di Leuca Cold Water Coral province: results from small to large scale seafloor mapping at one representative site.
- 14:30 J. Papoulia: Tectonic evolution of the Kiparissiakos Basin, South Western Hellenic Arc, from active seismic observations.
- 14:40 C. Eytemiz: Investigation of seismo-geomorphologic features of flower islands fault of the Gulf Izmir.
- 14:50 A. Ulug: Holocene sea level changes of Hisaronu Gulf, South-Eastern Aegean Sea.

##### Turbidites, catastrophic events, geohazards

- 15:00 M. Coste: Slope-to-basin sedimentary processes in tectonically active settings: a comparative analysis of the Calabrian and Ligurian Margin during the last 5Ma.
- 15:10 A. Sfriso: *Tapes philippinarum* (Adams & Reeve) harvesting effects on sediment settlement rates and erosion processes in the lagoon of Venice (Italy).
- 15:20 F. Foglini: The impact of dense shelf water cascades on the seafloor of the SW Adriatic slope.
- 15:30 A. Polonia: The Calabrian Arc subduction system: active faults, mud diapirism and the geological record of catastrophic events.
- 15:40 M. Vacchi. Geomorphological evidences of catastrophic waves impact in Southern Lesvos (NE Aegean Sea).
- 15:50 S. Migeon: High-resolution swath mapping of submarine landslides on the Nice slope (Ligurian Sea) by AUV surveys: implication for gravity-flow transformation.

16:00 – 16:30 *Coffee break*

- 16:30 A. Caburlotto: Seabed features in relation to geohazards on the Ionian Calabrian margin: results from the MAGIC Project.
- 16:40 L. López: Resuspension events and sediment fluxes across Barcelona continental shelf.

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## JEUDI 13 MAI / THURSDAY 13 MAY

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- 16:50 S. Pakhomova: Iron and Manganese species in the redox zone in two different basins with anoxic conditions: the Black Sea and the Oslo Fjord.
- 17:00 S.D. Rosen: Tsunami potential impact in the Levantine Basin at the Israeli coast by earthquakes and by submarine landslides using very high resolution coastal grids.
- 17:10 E.E. Yurur: Grain size distribution analyses and facies characteristics of the Homa Lagoon Izmir Bay, Aegean Sea, Western Turkey.

### **Messinian Salinity Crisis**

- 17:20 R. Urgeles: New constraints on Messinian sealevel drawdown from 3D seismic data of the Ebro Margin, Iberian Peninsula, and implications for evolution of the Ebro Basin.
- 17:30 R. Gennari: The Legnagnone section (Northern Apennines): high-resolution palaeoenvironmental evolution towards the onset of the Messinian Salinity Crisis.
- 17:40 V. Manzi: Re-calibrating the Sr-isotope curve of the Messinian Salinity Crisis in the Mediterranean.
- 17:50 M. Roveri: The Eastern Mediterranean record of the Messinian Salinity Crisis: new insights from marginal and deep basins.
- 18:00 P. Burollet: Marine Messinian in Eastern Tunisia.
- 18:10 C. Casalino: Mediterranean deep anoxic hypersaline basins: an overview.

## **C2. Physics and Climate of the Ocean**

### **POEM-hommage to Allan Robinson**

- 14:00 Introduction
- 14:30 N. Pinardi: From ocean mesoscale modelling to operational oceanography: a tribute to A.R. Robinson.
- 14:40 W. Roether: On the future of the Eastern Mediterranean Transient.
- 14:50 E. Özsoy: Operational forecasting for the Northern Levantine, Black Sea and the Turkish Straits System: problems and prospects.
- 15:00 J. Beuvier: Modelling the Mediterranean Sea interannual variability over 1961-2000: focus on the Eastern Mediterranean Transient (EMT).
- 15:10 V. Kourafalou: Advances in the North-Eastern Mediterranean Sea: complex pathways of the waters of Black Sea origin through the Aegean Sea.
- 15:20 E. Salusti: East Mediterranean Transient and dense water dynamics in the Aegean Sea.
- 15:30 I. Gertman. Generation of Shikmona Anticyclonic Eddy from an alongshore current.
- 15:40 G. Zodiatis: The Cyprus warm eddy and the Atlantic water during the Cybo cruises (1995-2009).
- 15:50 D. Hayes: Glider transects in the Levantine Sea: a study of the warm core Cyprus eddy.

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## JEUDI 13 MAI / THURSDAY 13 MAY

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16:00 – 16:30 *Coffee break*

- 16:30 V. Cardin: Structure and variability of the abyssal water masses of the Eastern Mediterranean.
- 16:40 P. Poulain: A Lagrangian view of the Eastern Mediterranean surface circulation over the last two decades.
- 16:50 R. Pennel: Surface circulation of the Eastern Mediterranean between November 2005 and October 2007 inferred from *in situ* drifter trajectories, model and altimetry data.
- 17:00 I. Taupier-Letage: The surface circulation in the Eastern Basin of the Mediterranean and the impact of the mesoscale eddies.
- 17:10 M. Orlic: Inverted barometer overshoot and great Adriatic surge of 21 June 1978.
- 17:20 G. Beg Paklar: Circulation variability in the Adriatic Sea and in small domains along the Eastern Adriatic coast during 2007 and 2008.
- 17:30 G. Civitarese: Effects of the Adriatic-Ionian Bimodal Oscillating System (BiOS) on the biogeochemistry of the Adriatic Sea.
- 17:40 S. Sparnocchia: Abyssal hydrographic conditions in the Ionian Sea from 2006 to 2009.
- 17:50 H. Kontoyiannis: The status of the deep hydrography and eddy field during 2006-2009 at the Southeast Ionian tentative neutrino-telescope site.
- 18:00 A. Campanelli: Seasonal variability of physical and chemical parameters of the Northern and central Adriatic Sea during 2001.

### **Wind and waves**

- 18:10 L. Bertotti: Wind wave forecast in the Adriatic Sea – a tool for better tidal forecast in the Northern Adriatic Sea.
- 18:20 M.K. Cambazoglu: Evaluation of wind field predictions by atmospheric models over the Marmara Sea.
- 18:30 M. Picone: A latent-class approach to missing value imputation in incomplete multivariate wave metric datasets.

## **C3. Biogéochimie marine / Marine Biogeochemistry**

### **Contaminants**

- 14:00 L. Legendre: Increasingly difficult respiration of aerobic organisms in the mesopelagic layer: possible adaptation strategy.
- 14:10 N. Kress: Potential toll of a desalination plant: A) Seawater quality.
- 14:20 N. Kovac: Petola-stromatolitic basement for manual gathering of salt in Secovlje salina.

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## JEUDI 13 MAI / THURSDAY 13 MAY

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- 14:30 E. Esen: Assessment of the biogeochemical parameters in Nemrut Bay Aegean Sea.
- 14:40 J. Kankus: Impact of aquaculture on nutrient distribution in Aegean Sea.
- 14:50 E. Balcioglu: Oil contamination in the Eastern Mediterranean Sea in 2008.
- 15:00 S. Azoury: Contamination of Lebanon coast by Polycyclic Aromatic Hydrocarbons after Jiyeh oil spill in 2006: three years study.
- 15:10 P.P. Povinec: Influence of *Posidonia oceanica* on the distribution of natural and anthropogenic radionuclides in coastal sediments of the Northwest Mediterranean Sea.
- 15:20 F. Eyrolle: Suspended Sediment and associated radionuclides transport : 2001-2008 flood monitoring at the lower Rhône river.
- 15:30 Ö. Kiliç: Radioactivity concentrations in the surface sediment and mussel samples from the Bosphorus and the Golden Horn, Turkey.
- 15:40 B. Özden: Concentrations of  $^{210}\text{Po}$  and  $^{210}\text{Pb}$  in plankton from different zones of Aegean Sea.
- 15:50 M.K. Pham: Characterization of the Mediterranean Sea mussel reference material (IAEA-437).

16:00 – 16:30 *Coffee break*

- 16:30 U. Sunlu: The determination of organotin compounds levels in sediment samples from Turkish Aegean Sea coast.
- 16:40 S. Raicevich: Organotins accumulation in the North-Western Adriatic Sea food web investigated by stable isotopes ratios ( $^{13}\text{C}/^{12}\text{C}$ ;  $^{15}\text{N}/^{14}\text{N}$ ).
- 16:50 M. Furdek: Organotin contamination in the coastal zone of the Eastern Adriatic (Sibenik area).
- 17:00 D. Brigolin: Modelling organic matter oxidation underneath a Mediterranean mussel farm.
- 17:10 V. Milun: An active biomonitoring of organochlorinated compounds in the Eastern Adriatic coastal waters (Croatia) using caged mussels.
- 17:20 E. Tessier: Study of the spatial and historical distribution of sediment inorganic and organic contamination in the Toulon bay (France).
- 17:30 I. Louiz: Seasonal variations of dioxin-like activity in sediments of the Bizerta lagoon (Tunisia) detected with *in vitro* cellular bioassays.
- 17:40 A. Antunes: The modulation of retinoic acid signalling pathways by environmental pollutants in marine metazoans.
- 17:50 P. Vukosav: Iron(III)-organic complexes dissolved in seawater: characterization of Iron(III)-succinate and Iron(III)-malate complexes in aqueous solution.

### C5a. Marine Ecosystems and Living Resources

#### Ecological impact of extreme events

- 14:10 J. Ledoux: Experimental approach to the potential response of a long-lived invertebrate species facing the warming in the NW Mediterranean.
- 14:20 M. Bellakhal Impact d'une pollution thermique sur un écosystème côtier à l'Est de la Tunisie.
- 14:30 Y. Edelman-Furstenberg: Ecologic and taphonomic trends in molluscan death assemblages of human-impacted areas: Israeli Eastern Mediterranean.

#### Biology and ecology of early life stages

- 14:40 M. Fartouna Bellakhal: Mortalité massive dans les parcs conchylicoles de la lagune de Bizerte.
- 14:50 D. Gokturk: Distribution of anchovy and sardine eggs and larvae in the Northern Aegean Sea.
- 15:00 B. Mustac: Differences in reproduction cycle between sardine *Sardina pilchardus* walb. 1792 and gilt sardine *Sardinella aurita* val. 1847 in the middle Eastern Adriatic
- 15:10 I. Palomera: Setting up an egg-density model for european anchovy, *Engraulis encrasicolus*.
- 15:20 W. Benchalel: Age, croissance et reproduction du sar commun *Diplodus sargus sargus* (sparidae) des côtes de l'Est Algérien.
- 15:30 M. Mandic: Distribution of anchovy eggs in Bokakotorska Bay.
- 15:40 F. Derbal: Reproduction du sar tambour *Diplodus cervinus cervinus* (sparidae) des côtes de l'Est Algerien.
- 15:50 V. Kousteni: Reproductive biology of *Squalus blainvillei* (risso, 1826) in the Eastern Mediterranean Sea.

16:00 – 16:30 Coffee break

- 16:30 I. Alvarez: Anchovy and sardine juvenile growth determined using the sardone protocol: the case of the Gulf of Lions.
- 16:40 N. Basusta: Maturity and reproductive cycle of the common guitarfish, *Rhinobatos rhinobatos* (linnaeus, 1758), in Iskenderun Bay (Northeastern Mediterranean).
- 16:50 C.K. Riga: Spawning frequency of picarel *Spicara smaris* (L.) in the Saronikos Gulf (Greece).
- 17:00 N. Demirel: Preliminary results on reproductive biology of *Trachurus mediterraneus* (Steindachner, 1868), in the Northeastern Sea of Marmara.



## JEUDI 13 MAI / THURSDAY 13 MAY

- 17:10 A. Sley: Première maturité sexuelle de la carangue coubali *Caranx crysos* (Osteichthyens, CARANGIDAE) du Golfe de Gabès (Tunisie).
- 17:20 D. Costalago Meruelo: An inter-regional comparison of the diet of european anchovy juveniles in the Adriatic Sea and in the Gulf of Lions.
- 17:30 R. Laiz-Carrión: Differentiating daily growth strategies with stable isotope analysis for trophism of Alborán Sea sardine larvae.
- 17:40 S. Yigitkurt: Collection of the rayed pearl oyster (*Pinctada radiata*, leach 1814) spat from two different depth at Karantina island, Aegean Sea.

### Molecular approaches in ecology

- 17:50 G. Procaccini: Differential gene expression profiling under different light conditions in *Posidonia oceanica* (L.) Delile by SSH analysis.
- 18:00 R. Mejri: Genetic structure of *Pomatoschistus marmoratus* (Gobiidae) in Mediterranean Sea.
- 18:10 E. Egea: From the Tethys Ocean to the Mediterranean Sea, how tectonics shaped *Echinocardium cordatum* evolution.
- 18:20 I. Uzonur: Somatic and gonadal Mosaicism Detection In Cultured Fish by RAPD-PCR.

## C5b. Marine Ecosystems and Living Resources

### General - zooplankton ecology

- 14:00 G. Gorsky: Comparison of zooplankton ecology of the Mediterranean and the North Atlantic.
- 14:10 L. Yebra Mora: Population structuring of *Calanus helgolandicus* S.L. in European waters.
- 14:20 T. Onciu: The qualitative and quantitative structure of zooplankton in the shallow waters of the Black Sea: comparison of data from 1973 and 2007.
- 14:30 N. Annabi-Trabelsi: Dynamics of *Paracartia* species (Calanoida: Copepoda) in two ponds of the Sfax saltern (Tunisia) in relation to salinity.
- 14:40 A. Moutsopoulos: Egg production, feeding and metabolism of *Clausocalanus furcatus* in a Mediterranean coastal area (Saronikos Gulf, Aegean Sea, Greece).
- 14:50 A. Nikishina: Monitoring of zooplankton in the coastal area of the NE Black Sea in 2005-2009.

### Seagrasses and macrophytes

- 15:00 E. Jackson: Identifying drivers of accelerating seagrass loss in the Mediterranean: causal chain and scenario analyses.
- 15:10 S. Cirik: Distribution and mapping of *Posidonia oceanica* (L.) delile in the Dardanelle strait and Marmara Sea.
- 15:20 V. Macic: Periodism of *Cystoseira spinosa* Sauv. (Fucales) frond size on the Montenegrin coast.

## JEUDI 13 MAI / THURSDAY 13 MAY

- 15:30 C. Rebzani Zahaf: Peuplements associés à *Cystoseira amantacea stricta* dans la région ouest Algéroise (Tipaza).  
15:40 A. Zerzeri: Contribution à la caractérisation de la macroflore benthique des régions de Bizerte, Cap-Zebib et Raf-Raf (Tunisie, Méditerranée).  
15:50 M. Cabrini: Survey of algal cysts in recent sediments of the Trieste (Adriatic Sea) and Milazzo (Tyrrhenian sea) ports.

16:00 – 16:30 Coffee break

### Fish physiology

- 16:30 N. Bouriga: Seasonal variation in the fatty acid composition of *Atherina* sp from Kerkennah islands.  
16:40 A. Blanco: Isotopic offset between muscle and scales of three Mediterranean fishes: *Dentex dentex*, *Argyrosomus regius* and *Xyrichtys novacula*, at marine protected areas.  
16:50 S. Felling: Dietary accumulation in white seabream tissues of a secondary metabolite from *Caulerpa racemosa* (Forsskål) J. Agardh.  
17:00 K. Telahigue: Comparative fatty acids profiles of *Flexopecten glaber* digestive gland under starvation and monoalgal diet conditions.  
17:10 D. Ayas: The effects of season and sex in the fatty acids and proximate compositions of common cuttlefish (*Sepia officinalis*).

### Fish communities and trophic habits

- 17:20 B. Bayhan: Fish fauna of the Markiz island (Candarli Bay, Aegean Sea).  
17:30 V. Vassilopoulou: Demersal ichthyofauna of the central Aegean Sea: declining trends in species richness.  
17:40 C. Yigin: Diet of thornback ray (*Raja clavata* Linnaeus, 1758) in Saros Bay (the North Aegean Sea).  
17:50 S. Matic-Skoko: Feeding habits and trophic status of Mediterranean moray eel, *Muraena helena* L. 1758 in the Adriatic Sea – preliminary approach.

## C6. Ecosystèmes côtiers / Coastal Ecosystems

### Economic impacts

- 14:30 H. Thébault: Sensitivity mapping of the French Mediterranean coastal environment.  
14:40 F. Villa: Understanding flows of ecosystem services: the interconnectedness of terrestrial, coastal, and marine systems.  
14:50 D. Sauzade: Mediterranean marine and coastal ecosystems: an economic valuation.  
15:00 A. Ghermandi: The recreational values of European coastal ecosystems and the impact of climate change upon them.  
15:10 M. Ghezzi: Socio-economic impacts of biodiversity loss in Venice lagoon as result of climate change.

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## JEUDI 13 MAI / THURSDAY 13 MAY

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### General - Plankton and seawater

- 15:20 A. Amara: Effet du dichromate de potassium sur la croissance et le métabolisme des algues marines: *Chaetoceros calcitrans*, *Isochrysis affinis galbana*, *Tetraselmis suecica*.
- 15:30 A. Karditsa: Spatial distribution of the Evros River plume (NE Aegean Sea), using seasonal satellite data and *in situ* measurements.
- 15:40 P. Kerhervé: Distribution and fate of the organic material discharged by the Rhone River.

16:00 – 16:30 Coffee break



### **ROUNDTABLE SESSION RT1 14:30 – 18:00 Sala Martinelli TECHNOLOGY PLATFORM FOR THE MEDITERRANEAN AND BLACK SEAS (PTMB)**

Moderator: Mario DOGLIANI (RINA, Genova, Italy)

*The PTMB Platform was established in May 2009 to integrate maritime and marine sectors on Research and Innovation. Its geographical coverage matches that of CIESM which has agreed to be the key partner representing the marine research sector. This Session will present and bring to discussion issues of common interest to both industry and research operators, such as new technologies for sustainable fisheries, maritime information technology, tuna farming, impact of nanotechnologies, sustainable deep sea exploration, links with oil and gas exploration, climate modeling, monitoring technologies, etc.*

### **TECHNICAL SESSION TS4 14:15 – 16:00 Sala Mangano CIESM EXOTIC SPECIES PROGRAMME**

### **TECHNICAL SESSION TS5 16:30 – 18:30 Sala Mangano CIESM JELLYWATCH PROGRAMME**



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### MORNING PANELS

with 10:30 – 11:00 Coffee break

#### **P7. 9:00 – 12:30. Mosaici 1**

##### **MARITIME INDUSTRY AND MARINE SCIENCE**

Moderator: Willem LAROS (WATERBORNE)

Panelists: Patrick BARAONA (Pôle Mer PACA, La Seyne, France); Mario DOGLIANI (RINA, Genova, Italy); Bouchta El MOUMNI (Univ. Larache, Morocco); Candan TAMERLER (Istanbul Tech. Univ., Turkey) and Isabelle TAUPIER-LETAGE (Lab. Oceanogr., La Seyne, France).

*The potential for increasing cooperation between marine scientists and operators from numerous maritime industry sectors looks immense. The presentations will focus especially on concrete examples of collaboration with maritime transport, harbour development, maritime security, nanotechnologies, marine energy resources.*

#### **P8. 9:00 – 12:30. Mosaici 2**

##### **MAPPING TOP MARINE PREDATORS**

Moderators: Giuseppe NOTARBARTOLO di SCIARA (Tethys Res. Inst., Milan, Italy) and Tundi AGARDY (Sound Seas, Washington D.C., USA)

Panelists: Carles CARBONERAS (Univ. Barcelona, Spain); Erich HOYT (Whale Conservation Society, UK); Kristin KASHNER (Albert Ludwig Univ., Freiburg, Germany); Susana SAINZ (WWF Mediterranean, Spain) and Fabrizio SERENA (ARPAT, Livorno, Italy)

*While marine protected areas (MPAs) can be envisaged to protect specific threatened species, it is impossible to establish different MPAs to protect every single component of the biodiversity of a given region. By contrast, selecting apex marine species having umbrella and/or flagship properties can support the protection of a wider number of species, ultimately enhancing the conservation status of the whole region. Panel 8 will consist in a collaborative effort to map habitat of several groups of marine top predator and charismatic species, with the active participation of the audience.*

**12:15 Best Poster Award  
given by H.S.H. Prince Albert II  
of Monaco**

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## AFTERNOON COMMITTEE SESSIONS

### C1. Géosciences marines / Marine Geosciences

#### Estuaries/subterranean estuaries

- 14:00 A. Ceregato: *Patella rustica* from offshore shell assemblages in the Central Adriatic records human use of limpets in medieval times.
- 14:10 A.P. Karageorgis: Geomorphological changes observed between 2006 and 2009 in a freshwater submarine groundwater discharge (SGD), Kalogria Bay, SW Peloponnissos, Greece.
- 14:20 V.P. Papadopoulos: Monitoring the flow and the physical properties of a Submarine Groundwater Discharge in Messiniakos Gulf (Southern Greece).
- 14:30 C. Tsabaris: Radio isotopes as tracers for the study of the Submarine Groundwater Discharge of Kalogria Bay, SW Peloponnissos, Greece.
- 14:40 Y. Weinstein: The role of groundwater and recirculated seawater in the transport of nutrients to the coastal water, a case study from the Carmel coast, Israel.
- 14:50 I. Jurina: Mechanism of the land-sea interactions in the Neretva River Delta (Croatia): the distribution pattern of sediments and trace elements.
- 15:00 A. Almogi-Labin: Rapid changes in the sedimentary regime following the damming of the Nile: inner shelf of the distal part of the Nile littoral cell, Israel.
- 15:10 Z. Fiket: Trace element distribution in sea water and sediment pore water from the Novigrad sea area (Eastern Adriatic).
- 15:20 M. Oprica: Modèle mathématique concernant le transport alluvionnaire par le Danube vers la Mer Noire.

**\*15:30 – 16:00 Committee debriefing (see p. 54)**

16:00 – 16:30 Coffee break

#### Mud/gas expulsion structures

- 16:30 J. Mascle: Seabed seepage in the Mediterranean Sea: what did we learn from multibeam swath data at different scales?

## VENDREDI 14 MAI / FRIDAY 14 MAY

- 16:40 S. Ceramicola: Exploring seabed seepage features on the Calabrian accretionary prism.
- 16:50 D. Praeg: Evidence of active mud volcanoes on the Calabrian accretionary prism, Ionian Sea.
- 17:00 T. Feseker: Long-term sediment temperature observation reveals rapid cooling after a recent eruption at North Alex mud volcano on the Western Nile deep-sea fan.
- 17:10 C. Pierre: Methane-related carbonates from cold seeps of Eastern Mediterranean and Marmara Sea.
- 17:20 A. Stefanon: Gas bubbling and rocks formation in the Adriatic Sea.
- 17:30 G. Gennari: Mud volcanoes in the West Alboran Basin: age variation of source sediments, recent mud volcanic activity, and their role in paleoecology.
- 17:40 M. Comas: The Melilla carbonate mounds: do deep-water coral mounds count on seeping fluids in the Alboran Sea?

**15:30 – 16:00**

### **Committee Debriefing**

Assessment of week's main achievements in each committee room\*, and conclusions.

*\*For C5, this session will be held in Sala Perla.*

## **C2. Physics and Climate of the Ocean**

### **New techniques for satellite data analyses**

- 14:00 J. Font: Retrieving ocean salinity from SMOS microwave radiometric measurements.
- 14:10 A. Turiel: Detection of a weak meddy with high-resolution satellite SST maps.
- 14:20 J. Isern-Fontanet: High resolution 3D velocity field reconstruction from satellite sea surface temperature observations in the Mediterranean Sea.
- 14:30 F. Mélin: Multi-sensor satellite time series of optical properties and chlorophyll *a* concentration in the Adriatic Sea.

### **Physical/biological coupling**

- 14:40 F. Houma: Integration des données multisources pour la modélisation de la couleur des eaux marines côtières: Application à la surveillance du phytoplancton marin.
- 14:50 G. Volpe: Phytoplankton response to physical processes in the Mediterranean Sea: of analysis of satellite observations.
- 15:00 N. Skliris: Sea surface temperature and chlorophyll non-seasonal variability in the Aegean Sea by means of EOF analysis of satellite data.

## VENDREDI 14 MAI / FRIDAY 14 MAY

15:10 M. Alcaraz: Small-scale vertical distribution of zooplankton in the Catalan Sea: relationships with physical characteristics.

15:20 A. Capet: 3D modelling of the Black Sea North Western shelf ecosystem.

**\*15:30 – 16:00 Committee debriefing (see p. 54)**

16:00 – 16:30 *Coffee break*

### **Straits**

16:30 C.J. Gonzalez: M2 tidal dynamics in Algeciras Bay and its relation to the hydrodynamical regime of the Strait of Gibraltar: numerical 3D model results.

16:40 A. Berraho: Structure hydrodynamique et variation de la chlorophylle *a* au niveau d'un transect dans le Déroit de Gibraltar.

16:50 E. Jarosz: Volume flux variability in the Bosphorus Strait.

17:00 H. Altiok: Temperature, salinity and flow variations in the Strait of Istanbul (Bosphorus).

17:10 S. Husrevoglu: Investigation of the mediterranean-black sea coupling using multi-scale models of the Turkish Strait System.

17:20 C.A. Blain: A multi-scale model of the Turkish Straits System.

17:30 V. Zervakis: DARDANOS: a WERA system for monitoring the Dardanelles outflow in the Aegean.

17:40 S. Yari: Direct estimate of water, heat and salt transport through the Strait of Otranto.

### **Coastal oceanography**

17:50 N. Leder: Monthly and seasonal oscillations of the Eastern Adriatic current.

18:00 S. Monserrat: On the external sea level forcing of meteotsunamis at the Balearic Islands.

18:10 M. Locritani: Coastal dynamic features along the Northern Ligurian shelf (Portofino cape) in summer 2004: role of the meteorological and the topographic forcings.

18:20 L. Papa: Numerical model of the trajectory of a floating body in coastal areas.

## **C3. Biogéochimie marine / Marine Biogeochemistry**

### **Contaminants**

14:00 A. Yilmaz: Does pollution threaten Fethiye-Gocek Bay (Turkey) specially protected area marine ecosystem and its functioning?

14:10 N. Fisher: Dietary sources dominate metal uptake in marine fish.

14:20 C. Garnier: Trace metal dynamics in the stratified Krka River estuary (Croatia): an integrated approach by voltammetry, DGT and fluorescence spectroscopy.

## VENDREDI 14 MAI / FRIDAY 14 MAY

- 14:30 D. Omanovic: Distribution of trace metals in the Middle and Southern Adriatic Sea.
- 14:40 M.B. Ibañez: Trace metal pollution in sediments of the Catalan Coast (NorthWestern Mediterranean).
- 14:50 A. El Arrim: Distribution métallique dans les eaux et les sédiments du littoral de la Baie de Tanger. Rif Nord occidental Maroc.
- 15:00 T. Gonul: Mercury accumulation and speciation in red mullet (*Mullus barbatus*) and annular sea bream (*Diplodus annularis*) from Izmir Bay (Eastern Aegean).
- 15:10 F. Kucuksezgin: Evaluation of heavy metal pollution in sediment and *Mullus barbatus* from the Izmir Bay (Eastern Aegean) during 1997-2009.
- 15:20 S. Romano: Metals and POPs in sediments along the Italian Adriatic and Ionian coast.

### **\*15:30 – 16:00 Committee debriefing (see p. 54)**

16:00 – 16:30 Coffee break

- 16:30 M. Iatrou: Submarine bauxitic tailings disposal: a case study in Corinth Gulf, Central Greece.
- 16:40 B. Pekey: PAH/PCB concentrations in mussels (*Mytilus galloprovincialis*) from Izmit Bay.
- 16:50 O. Radakovitch: Evaluation of sediment genotoxicity and toxicity of the Berre lagoon sediments.
- 17:00 N. Alkan: Determination of heavy metals in fish samples from Trabzon coast of the Eastern Black Sea.
- 17:10 D. Boussoufa: Concentrations des métaux traces dans la chair de *Donax trunculus* (mollusque, bivalve) des côtes sableuses du Golfe de Tunis.

## **C-5a. Marine Ecosystems and Living Resources**

### **Ecology of marine mammals, turtles and sea birds**

- 14:00 A. Moulins: Seismic exploration inside the international sanctuary for the protection of marine mammals: results of the marine mammal observers monitoring.
- 14:10 P. Tepsich: May the idea of partitioning the Pelagos Sanctuary in areas of specific interests solve the problem of how to protect 100,000km<sup>2</sup>? The sperm whale case.
- 14:20 B. Çiçek: Assessment of sea turtles monitoring and research studies at Karpaz peninsula, North Cyprus.
- 14:30 I. Jribi: Interaction des tortues marines avec les engins de pêche dans le golfe de Gabès (Tunisie).
- 14:40 C. Carboneras: GIS mapping of seabird distribution - a pan-Mediterranean perspective.

### **Fishing down food webs vs high trophic aquaculture**

- 14:50 F. Navarrete-Mier: Trophic relations of wild fish associated to an open-water fish farm in the SouthWestern Mediterranean.



## VENDREDI 14 MAI / FRIDAY 14 MAY

- 15:00 A. Tsikliras: Trends in trophic level of farmed fish in Mediterranean countries.
- 15:10 A. Adamidou: Mean trophic level estimation of the catch of various fishing gears (N. Aegean).
- 15:20 M. Verdoit-Jarraya: Do the technical characteristics of the trawlers control bottom trawling activity in the Gulf of Gabès (Tunisia)?

### **\*15:30 – 16:00 Committee debriefing (see p. 54)**

16:00 – 16:30 Coffee break

- 16:30 A. Zoubi: The gear selectivity effect on growth parameters of *Axillary seabream*, *Pagellus acarne* (Sparidae) at the Moroccan Western Mediterranean.
- 16:40 A.C. Dinçer: Monofilament gillnet selectivity for the red mullet (*Mullus barbatus*) in the Eastern Black Sea coast of Turkey, Trabzon.
- 16:50 A. Miliou: Production and composition of small-scale fisheries landings in the Eastern Aegean Sea.
- 17:00 T. Kebapçioğlu: The status of the demersal fish community in the Gulf of Antalya, Turkey (Levantine Sea).
- 17:10 A. Lamrini: Démographie, exploitation et état des stocks du rouget barbet de roche (*Mullus surmuletus*, L.1758) dans la baie de M'Diq (côte occidentale du Maroc).
- 17:20 A. Mosteiro Cabanelas: Changes on biomass estimation and spatial distribution of anchovy (*Engraulis encrausicolus*) in the Catalan platform.
- 17:30 P. Sartor: Temporal evolution of demersal species abundance in the Northern Tyrrhenian Sea.
- 17:40 M. Kavouras: DNA damage and repair efficiency comet assay in intensively reared sea bream (*Sparus aurata*), exposed to heavy metals.
- 17:50 G. Petrakis: Time of fishing - area effects on boat Seine catches in Greek waters.
- 18:00 M. Ben Hassena: Caractérisation morphométrique de *Scorpaena porcus* poisson scorpaenidae (linne, 1758) sur les côtes Tunisiennes.

### **C-5b. Marine Ecosystems and Living Resources**

#### **From fish to jelly seas**

- 14:00 D. Atienza: Changes in jellyfish species composition during summer 2009 in the Catalan Sea (NW Mediterranean).
- 14:10 T. Kogovšek: Jellyfish in the Northern Adriatic: a 200 year story.
- 14:20 M.N. Bradai: Tunisian fish fauna and the global warming.
- 14:30 J. Hecq: Problematic of *the Pelagia noctiluca* outbreaks in the Bay of Calvi (Corsica).
- 14:40 A. Sabatés: Predation of *Pelagia noctiluca ephyrae* on fish larvae in the Catalan sea (NW Mediterranean).

## VENDREDI 14 MAI / FRIDAY 14 MAY

14:50 J. Ruiz: On the thermal control of *Cotylorhiza tuberculata* jellyfish population.

15:00 A. Siapatis: Spatial distribution of ctenophore *Mnemiopsis leidyi* in Aegean Sea.

### Deep sea biodiversity

15:10 E. Fanelli: Food web structure of deep-sea communities in the Balearic Basin: evidence from  $\delta^{13}C$  and  $\delta^{15}N$  analysis.

15:20 S. Tecchio: Biodiversity patterns of deep-sea benthic megafauna on Western and central Mediterranean basins.

### \*15:30 – 16:00 Committee debriefing (see p. 54)

16:00 – 16:30 Coffee break

16:30 A. Papadopoulos: Assemblages in the Deep Waters of the North Aegean Sea (Hellas).

16:40 M. Salomidi: ROV observations on fish and megafauna in deep coral areas of the Eastern Ionian.

16:50 A. Fiala: Recent observations of dense living cold-water coral communities in the Lacaze-Duthiers canyon (Western Mediterranean Sea).

17:00 C. Froggia: In less than 10 years the squat lobster *Munida rostellanti* has replaced *M. intermedia* in the Western Pomo Pit (central Adriatic).

17:10 M. Öz: The biomass and some biological aspects of the Mediterranean slimehead *Hoplostethus m. mediterraneus*, from Saros Bay (NE Aegean Sea, Turkey).

17:20 A. Gastoni: On the reproduction of *Acanthephyra eximia* S. I. Smith, 1884 in the central Western Mediterranean.

## C-6. Ecosystèmes côtiers / Coastal Ecosystems

### Global warming

14:00 F. De Pascalis: Facing Global Warming in transitional areas: characterization of variability in six Mediterranean lagoons by means of numerical modeling.

14:10 B. Queguiner: SESAME Program: Recent evolution of phytoplankton communities in North-Western Mediterranean coastal waters.

14:20 W. Ludwig: Future scenarios of river discharges of water and nutrients to the Mediterranean and Black Sea.

14:30 P. Range: Effects of ocean acidification on juvenile clams *Ruditapes decussatus*.

14:40 M. Previati: Effects of the loss of *Paramuricea clavata* (Risso, 1826) forests on coralligenous assemblages.

14:50 G. Tsirtsis: Effects of the recent climate changes to the water budget of a semi-enclosed gulf in Eastern Mediterranean.

15:00 A. Conversi: Hypotheses on a Mediterranean Sea regime shift in the late 1980s.

## VENDREDI 14 MAI / FRIDAY 14 MAY

- 15:10 A. Minchio: The changing water budget of Quinto Basin (Ravenna, Italy), a coastal watershed under climate change.
- 15:20 Y. Mezgui: Etude biométrique de *Caulerpa racemosa* var. *cylindracea* (Cryopsidales, Chlorophyta) se développant sur différents types de substrats.

**\*15:30 – 16:00 Committee debriefing (see p. 54)**

16:00 – 16:30 *Coffee break*

### **Success stories in restoration of coastal marine ecosystems**

- 16:30 S. Frascchetti: Effect of multiple drivers on the recovery of marine benthic assemblages.
- 16:40 P. Martin: Artisanal fishing in the proximity to a rocky littoral marine reserve in the NorthWestern Mediterranean: Medes Islands.
- 16:50 B. Morales-Nin: Coastal resources management: recreational versus artisanal fisheries.
- 17:00 M. Follesa: Spillover effects of a marine protected area on a exploited lobster *Palinurus elephas* resource.
- 17:10 L. Airoidi: MITIGATING the impacts of coastal defence measures.
- 17:20 Z.A. Kizilkaya: Causes of infralittoral barrens in the Turkish Mediterranean and potential for ecosystem restoration.
- 17:30 S. Lakkis: Marine Protected Area, an efficient tool for the conservation and protection of marine life case study: Palm island reserve, North Lebanon.
- 17:40 C.F. Boudouresque: Fishing effort and catches in the marine protected area of Scandola and adjacent areas (Corsica, Mediterranean).



### **DINING RECEPTION**

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**starting 19:30 – Teatro delle Tese,  
within the Arsenal historical Gaggiandre complex**  
*CIESM guests will be transported there by privately chartered boats  
from the Congress Center.*

Réception offerte par la CIESM  
*Reception offered by CIESM*

## **ELECTION OF COMMITTEE CHAIRS**

One important event of the 39th International Congress is the election of the Chairs of the six CIESM Scientific Committees for the period 2010-2013.

### **THEIR MISSION**

The elected Chairs will carry a major role in CIESM during their three year-term, working closely with the Director General on strategic planning and on strengthening the cooperation between marine researchers on all Mediterranean shores within a challenging, multi-cultural context. High standing in marine science, clear recognition in the broad Mediterranean/ Black Sea community, and a real taste for bridging cultures and marine disciplines are a pre-requisite to carry out this mission. After careful screening, the Advisory Committee selected 12 finalists from 10 different countries (see next page).

### **ELECTION RULES**

- Only those Congress participants authoring or co-authoring a communication (oral / or poster), and registered prior to 15 April 2010, will be allowed to vote. They will do so in only one committee, that closest to their discipline. Voting shall take place by secret ballot from Tuesday morning (11 May) to Thursday morning (13 May).
- The finalists shall each be invited to make a brief presentation of about 6-8 minutes of their vision for the post to the colleagues of their respective Committee. This presentation will take place during the 'committee briefing' scheduled at 16h30 on Monday 10 May.
- In C5, by far the largest committee, two co-Chairs will be elected out of four finalists. To ensure a healthy geographic diversity, each voter will select one candidate (out of 2 finalists) from the western region, together with one candidate (out of 2 finalists) from the eastern region.
- In cases (C4, C6) where only one finalist was selected, voters will indicate their choice between Yes, No, Abstain.
- The results will become official following validation by a Board Meeting on Thursday evening; they will be announced on Friday morning in the Congress Center.

## CANDIDATES

### C1 - MARINE GEOSCIENCES

- ◆ **SILVIA CERAMICOLA**, Goup leader, OGS, Trieste, Italy [M.Sc. (equiv) 1993, Univ. Bologna / Ph.D. 2001 geological sciences, Univ. Gent, Belgium]. Earlier experience as assistant for Alliance of Maritime Regions in Europe, Brussels. Fullbright fellowship at Scripps, 1995. Research on tectonically active Ionian margins of Calabria, on associated seabed processes of fluid flow (mud volcanism) and downslope sediment transfer. Involved in European (e.g. HERMES) and Italian projects (e.g. MAGIC). Speaks English, French, Italian.
- ◆ **GERT DE LANGE**, Professor, Marine Geochemistry and Chemical Oceanography, Utrecht Univ. NL [M.Sc. 1977 Univ. Groningen, NL / Ph.D. 1988 marine geochemistry, Utrecht Univ, NL]. Research largely focused on the Mediterranean, including paleoceanographic variations in marine sediments, diagenetic processes, origin and composition of gas expulsion at deep mud volcanoes and brine basins. Chief scientist of over 30 cruises, with participants from nearly all surrounding Mediterranean countries. Over 150 scientific articles, incl. in *Nature*, *Science*, *PNAS*. Editor-in-chief of *Marine Geology*. Fluent in English, French.

### C2 – PHYSICS AND CLIMATE OF THE OCEAN

- ◆ **MIROSLAV GACIC**, Head of Oceanography Group, OGS, Trieste, Italy [M.Sc. 1974, physical oceanography, Univ. Zagreb /Ph.D. 1983 meteorological sciences, Univ. Belgrade]. Fullbright fellowship 1979. Research on watermass circulation in response to atmospheric forcing at various time scales, deep water formation processes, water exchange dynamics between bays and open sea. PI in EurOceans, collaborator of various EU Projects (PRISMA, MERSEA, MFSP, MFSTEP, OTRANTO). Teaches graduate oceanography programs at Univ. Trieste, Zagreb, Venice. Over 100 scientific articles. Speaks English, French, Italian, Croatian.
- ◆ **EMIN OZSOY**, Professor, Physical Oceanography, Inst. Marine Sciences, METU, Erdemli, Turkey [M.S. 1974, Univ. Miami, Rosenstiel School Mar. Atmosph. Science / Ph.D. 1977, coastal & oceanogr. engineering, Univ. of Florida Gainesville, USA]. Fullbright scholar 1989. Research on wave and tidal motions, storm surges, strait dynamics, satellite remote sensing, modelling marine effects of Sahara dust. International cruises with WHOI, Univ. Miami, METU, NATO Undersea Research Center. Numerous publications in major international journals and a dozen book chapters.

### **C3 – MARINE BIOGEOCHEMISTRY**

◆ **NICHOLAS FISHER**, Distinguished Professor, School of Marine & Atmosph. Sci., SUNY Stony Brook, USA [PhD 1974, biology, Stony Brook]. Visiting scientist Melbourne, Australia; IAEA, Monaco. Research on biogeochemical cycling and trophic transfers of metals and radionuclides in aquatic systems. John Simon Guggenheim Memorial Fellow 2004. Over 200 publications, incl. in *Nature*, *Limnol. Oceanogr.* Consultant for a number of environmental agencies. Director of SUNY Consortium for Interdisciplinary Environmental Research.

◆ **AXEL ROMANA**, Senior Scientist, Ifremer, Prospective and Sci. Strategy Division, France [theoretical physics, Univ. Buenos Aires 1969 / marine biology & biogeochemistry, Univ. Marseille 1973]. Expertise in ecotoxicology, DOC cycles, nitrification, numerical modelling. Developed standard methodologies for monitoring inputs, state and fate of chemical contaminants in highly diversified ecosystems. Numerous cruises. Initiator and leader of international multidisciplinary programs (e.g. MEDICIS) connecting coastal institutions from all Mediterranean countries. Fluent in French, English, Spanish, Italian.

### **C4 – MARINE MICROBIOLOGY AND BIOTECHNOLOGY**

◆ **MILTON DA COSTA**, Professor of Microbiology, Univ. Coimbra, Portugal [M.Sc. 1972, Northern Arizona Univ., Flagstaff; Ph.D. microbiology 1977, Univ. Indiana Bloomington, USA]. Current research on biodiversity and systematics of extremophilic bacteria and archaea (from coastal geothermal areas and from deep sea brines in Mediterranean), and on specific enzymes in *Mycobacterium* species. Current President of Federation of European Microbiological Societies (FEMS). Over 130 scientific articles and 20 book chapters. Four patents. Fluent in English, French, Portuguese.

### **C6 – COASTAL SYSTEMS**

◆ **ENRIC SALA**, Senior Scientist CSIC, Spain and National Geographic Ocean Fellow, Washington DC, USA. [Ph.D. ecology 1996, Univ. Aix Marseille, France]. Professor (1997-2007) at Scripps Inst. Oceanog. San Diego, USA. Research on coastal systems ecology, biodiversity of tropical systems, marine food webs and protected areas. Pew Fellow 2006 in marine conservation. Member, Steering Committee of Census of Marine Life. Publications in leading scientific journals, e.g. *PNAS*, *Science*, *Ecology*. Fluent in English, French, Spanish.

## C5 – LIVING RESOURCES AND MARINE ECOSYSTEMS

- ◆ **FERDINANDO BOERO**, Professor of Zoology, Univ. Salento, Lecce, Italy [Ph.D. (equiv.) 1976, Univ. Genoa]. Research on marine biodiversity, evolutionary ecology, marine protected areas, hydrozoan taxonomy, life cycles of invertebrates, etc. Author of 225 scientific articles and 7 books. Coordinator/ collaborator of national and international research projects; conception of CIESM JellyWatch Program. Secretary General of Ital. Society of Ecology. Focal node of MARBEF. Steering Committee of MARS, Editor-in-chief of *Ital. J. of Zoology*. Fluent in English, French, Italian.
- ◆ **CHAFIKA REBZANI**, Professor of marine ecology, Univ. Algiers, Algeria [M.Sc. marine biology 1990, Dr.Sc. oceanography 2003, Univ. Algiers]. Research on marine macrobenthos communities, polychaetes taxonomy, bio-constructions, dynamics and protection of littoral ecosystems, marine biodiversity, phylogeny and biogeography. Leader of bilateral PCI Algeria/ Spain Project. Head of long-term National Program on coastal ecosystem evolution. Collaborator of CIESM Tropical Signals Program. Speaks French, English, Arabic.
- ◆ **TAMARA SHIGANOVA**, Leading Scientist, Shirshov Inst. of Oceanology, and Professor Severtsev Inst. of Ecology, Moscow, Russia [M.Sc. ichthyology 1972, Techn. Inst. Fisheries / Ph.D. hydrobiology 1975 / Dr.Sc. 2009 Moscow]. Research on biological invasions, fish reproduction and migrations, zooplankton biodiversity, fish stocks, food webs. Visiting scientist in Canada, France, Germany, Greece, Slovenia, Turkey USA, UK. Collaborator / P.I. of numerous EU projects (e.g. IASON, SESAME, SEA SEARCH, CASPINFO; EDMONET). Over 110 refereed scientific articles and 3 books. Fluent in English, Russian, underst French.
- ◆ **CEMAL TURAN**, Professor, Univ. Mustafa Kemal, Antakya, Turkey [M.Sc. 1995, Univ. Swansea, Wales / Ph.D. 1997, Univ. Hull, England, UK]. Research on ecology, phylogeny, morphological variation, and population genetics of fish. Successful Young Scientist Award by Turkish Academy of Sciences 2005. Leader of national TUBITAK projects (population genetic structure of *Alosa* and *Trachurus*)s and collaborator of EU Fish and Chips project on applying DNA chip technology as standard analytical tool for fish identification.

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