

**General content and structure of the Training Courses/ Summer School in Gelendzhik, Russia (June, 30 –July, 04, 2014)  
“CHALLENGE FOR GOOD ENVIRONMENTAL STATUS IN COASTAL WATERS”**

The PERSEUS Training Courses/Summer School (hereinafter – “Courses”) are organized by the Shirshov Institute of Oceanology, Russian Academy of Sciences (SIO RAS) on the base of its Southern Branch (SB SIO RAS) which is located at the Black Sea coast in Gelendzhik (Fig.1-4). Courses will last for 5 days (+ 2 days for arrival and departure) from June, 30 to July, 04, 2014.



**Fig.1. Location of Gelendzhik at the Black Sea coast**



**Fig. 2. Venue of the Courses**



**Fig. 3. The Blue Bay and the pier of SB SIO RAS**



**Fig. 4. Sea coast view near the Blue Bay**

The scientific program of the Courses will cover 4 main topics:

- Integrated coastal zone management in the Mediterranean and Black Seas
- Coastal erosion and dynamical processes in the nearshore zone
- Interaction of the coastal zone with the open sea
- Studies and monitoring of the coastal and open sea ecosystems

These topics will be highlighted by the invited lecturers from Bulgaria, Germany, Greece, Italy, Israel, Norway, Russia, Turkey, Ukraine, and United Kingdom. In addition, the young participants will be asked to present poster communications during the afternoon sessions.

### **PLANNED SOCIAL EVENTS:**

**Outdoors barbecue party (June, 30)**

**Dinner party (July, 04)**

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### **PRELIMINARY AGENDA OF THE COARSEs**

**June, 28-29 (Saturday and Sunday) ARRIVAL AND REGISTRATION.**

Transfer of the participants from the airport to the place of residence.

*Monday, 30 June*

#### **OPENING OF THE CONFERENCE**

**09:00-09:30** Opening of the meeting, welcome words from the organizers

**09:30-10:15** **Evangelos Papathanassiou** (HCMR, Anavissos, Greece) Introductory lecture: PERSEUS project – studies of pressures and impacts on the ecosystems of the Mediterranean and Black Sea in view of their better governing (title to be confirmed)

#### **SESSION 1. Integrated coastal zone management (ICZM) in the Mediterranean and Black Seas**

**10:15-11:00** **Violeta Velikova** (SuRDEP, Varna, Bulgaria) ICZM in the Black Sea region: history of governance and management in rehearsal

**11:00-11:30** **Coffee break**

**11:30-12:15** **Violeta Velikova** (SuRDEP, Varna, Bulgaria) Coastal zone – the terra incognita et quanto aqua sensitivus est (What the Black Sea region says about that?)

**12:15-13:00 Erdal Ozhan** (MEDCOAST, Dalyan, Turkey) Myths and facts about integrated coastal management: Lessons learned from the Mediterranean and the Black Sea

**13:00-13:45 Elena Arashkevich** (SIO RAS, Moscow, Russia) Pressures and impacts on the Mediterranean and Black Sea coastal ecosystem: present knowledge and gap analysis

**13:45-15:15 Lunch**

**15:15-17:15 Poster presentations of the young participants**

**19:00-22:00 Outdoors ice-break party (barbecue)**

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*Tuesday, 1 July*

**SESSION 2. Coastal erosion and dynamical processes in the nearshore zone**

**09:30-10:15 Ruben Kosyan** (SB SIO RAS, Gelendzhik, Russia) Basic lithodynamical problems for the Black Sea coasts and related physical processes

**10:15-11:00 Hans Kunz** (Oldenburg University, Germany). Current state of the coasts protection methodology

**11:00-11:30 Coffee break**

**11:30-12:15 Sergey Kuznetsov** (SIO RAS, Moscow, Russia) Nearshore hydrodynamics

**12:15-13:00 Boris Chubarenko** (AB SIO RAS, Kaliningrad, Russia) Distinctive characteristics of coastal lagoons and estuaries: hydrological and lithodynamical studies

**13:00-13:45 Petr Zavialov** (SIO RAS, Moscow, Russia) Dynamics of the river plumes and its impact on the contamination transport in the marine coastal zone.

**13:45-15:15 Lunch**

**15:15-17:15 Poster presentations of the young participants**

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*Wednesday, 2 July*

**SESSION 3. Interaction of the coastal zone with the open sea: impact on the ecosystem.**

**09:30-10:15 Georgy Shapiro** (University of Plymouth, Plymouth, UK) Exchange processes between shelf and deep sea

**10:15-11:00 Irina Chubarenko** (AB SIO RAS, Kaliningrad, Russia) Sea-shelf heat

and mass exchange: diagnostics and quantification on the base of SST data

**11:00-11:30 Coffee break**

**11:30-12:15 Vladimir Zhmur** (MIPT, Moscow region, Russia) Underground intrusion of marine waters in the coastal zone of the sea

**12:15-13:00 Eugeniy Yakushev** (NIWA, Oslo, Norway) Coastal zone biogeochemical regime studies in NE Black Sea

**13:00-13:45 Tamara Shiganova** (SIO RAS, Moscow, Russia) Non-native species and their role on Mediterranean and Black Sea ecosystems

**13:45-15:15 Lunch**

**15:15-17:15 Poster presentations of the young participants**

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*Thursday, 3 July*

**SESSION 4. Studies and monitoring of coastal and open sea ecosystems**

**09:30-10:15 Sergey Stanichny** (MHI, Sevastopol, Ukraine) Long-term studies of the Black Sea dynamics and its potential impact on the ecosystem on the base of satellite data

**10:15-11:00 Alexander Mikaelyan** (SIO RAS, Moscow, Russia) Temporal changes of phytoplankton in the open and coastal waters of the Black Sea

**11:00-11:30 Coffee break**

**11:00-12:15 Vladimir Silkin** (SB SIO RAS, Gelendzhik, Russia) Phytoplankton and good environmental status in coastal waters

**12:15-13:00 Alexander Ostrovskii** (SIO RAS, Moscow, Russia) Modern methods for the long-term multidisciplinary studies of coastal zone

**13:00-13:45 Isaac Gertman** (IOLR, Haifa, Israel) Oceanographic cast data processing and analysis (CTD, Bottle, Floats and Sea Gliders) from raw data to PERSEUS DB

**13:45-15:15 Lunch**

**15:15-17:15 Poster presentations of the young participants**

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*Friday, 4 July*

**SESSION 4 (continuation). Studies and monitoring of coastal and open sea ecosystems**

**09:30-10:15 Andrey Zatsepin** (SIO RAS, Moscow, Russia) SIO RAS hydrophysical testing area at the Black Sea near Gelendzhik: scientific background,

measuring platforms and their usage for permanent monitoring of the marine environment

**10:15-11:30** Andrey Zatsepin, Alexander Ostrovskii, Vladimir Soloviev (SIO RAS, Moscow), Sergey Kuklev, Oleg Podymov (SB SIO RAS, Gelendzhik, Russia) Demonstration of measuring platforms and the real time data transmission systems

**11:30-12:00** **Coffee break**

**12:00-12:45** Valery Chasovnikov (SB SIO RAS, Gelendzhik, Russia) Methods and instruments for hydrochemical studies and monitoring of the Black Sea shelf-slope zone

**12:45-14:00** Valery Chasovnikov et al. (SB SIO RAS, Gelendzhik, Russia) Demonstration of the analytical chemistry equipment facilities of SB SIO RAS Chemical Laboratory

**14:00-15:30** **Lunch**

**15:30-16:30** **Closing Session**

**19:00-22:00** **Dinner party**

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*Saturday and Sunday, 5-6 July*

**Departure**

Transfer of participants to the airport (on request)

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**Abbreviations:**

HCMR – Hellenic Center of Marine Research

OGS – National Institute of Oceanography and Experimental Geophysics

SuRDEP – Nongovernmental Organization for Sustainable Regional Development and Environmental Protection

SIO RAS – Shirshov Institute of Oceanology of Russian Academy of Sciences

SB SIO RAS – Southern Branch of SIO RAS

AB SIO RAS - Atlantic Branch of SIO RAS

MIPT – Moscow Institute for Physics and Technology (State University)

NIWA – Norwegian Institute for Water Research

MHI –Marine Hydrophysical Institute

IOLR - Israel Oceanographic and Limnological Research Institute