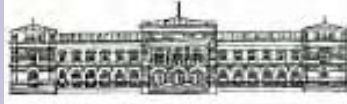




**National Institute of Marine  
Geology and Geoecology  
(GeoEcoMar)  
Bucharest, Romania**



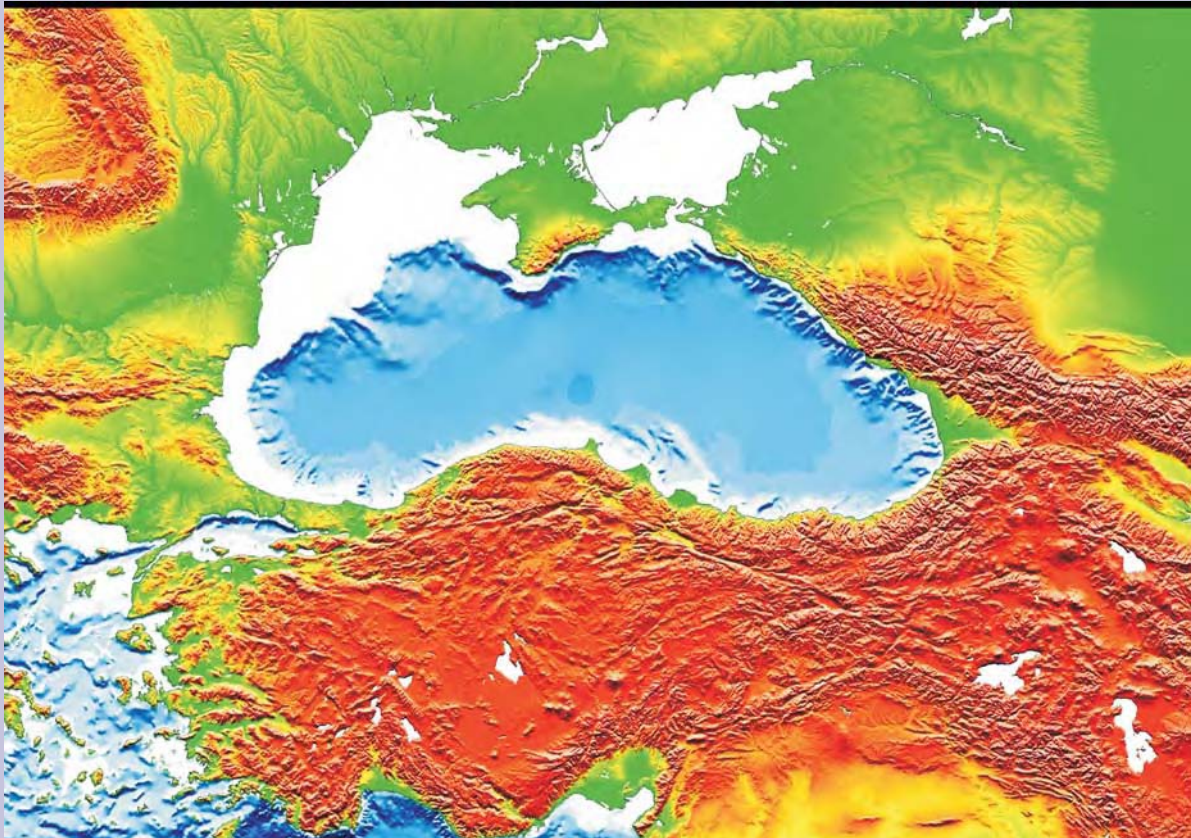
**Department of Natural History of  
the Regional Historical Museum  
Varna, Bulgaria**



**4-16 October, 2008**

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## **International Geoscience Programme**



### **SECOND CIRCULAR**

**IGCP 521 - INQUA 0501 Fourth Plenary Meeting and Field Trip**

**IGCP 521 "BLACK SEA-MEDITERRANEAN CORRIDOR DURING  
THE LAST 30 KY: SEA LEVEL CHANGE AND HUMAN ADAPTATION  
(2005 - 2009)**

**INQUA 0501 "CASPIAN-BLACK SEA-MEDITERRANEAN CORRIDOR  
DURING LAST 30 KY: SEA LEVEL CHANGE AND HUMAN  
ADAPTIVE STRATEGIES" (2008-2010)**

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Co-President	<b>Mariana Filipova-Marinova, Bulgaria</b>
Vice-President	<b>Mihaela Melinte, Romania</b>
Vice-President	<b>Hristina Angelova, Bulgaria</b>
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Executive Secretary	<b>Tatiana Begun, Romania</b>
Technical Director	<b>Irena Motnenko, Canada</b>
Members	<b>Camelia Cazacu</b> <b>Andrei Briceag</b> <b>Silviu Rădan, Romania</b>
Field Trips	<b>Mihaela Melinte, Romania</b> <b>Titus Brustur, Romania</b> <b>Hristina Angelova, Bulgaria</b>

### **INTERNATIONAL ADVISORY COMMITTEE**

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Editors	<b>Allan Gilbert, USA</b> <b>Valentina Yanko-Hombach, Canada, Ukraine</b>
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### **EDITORIAL BOARD OF FIELD TRIP GUIDE**

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Authors	<b>Titus Brustur, Romania</b> <b>Cristina Poenaru, Romania</b> <b>Mariana Filipova-Marinova, Bulgaria</b>

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## Welcome

*Ladies and Gentlemen,*

*Dear Friends and Colleagues,*

*This year, the conference and field trip will take place within two countries – Romania and Bulgaria. With this second circular, we are now able to provide more detailed information concerning the conference, the field trips, lodging, as well as the program, which you will find at: <http://www.avalon-institute.org/IGCP>.*

*In addition, and in response to several questions, we would like to emphasize that participation at this meeting is not restricted to IGCP 521 or INQUA 0501 members. Everyone who is interested in the Caspian-Black Sea-Mediterranean region is welcome.*

*On behalf of the Organizing and Executive Committees,*

*Nicolae Panin, Mariana Filipova-Marinova, and Valentina Yanko-Hombach*

## Introduction

The Black Sea-Mediterranean Corridor is an integrated oceanographic system defined here as the large geographical area covering the Manych-Kerch Gateway (Manych Valley, the Sea of Azov, and the Kerch Strait) that lies to the east of the Black Sea, the Black Sea, the Marmara Gateway (the Bosphorus Strait, the Sea of Marmara, and the Dardanelles), the Aegean Sea, and the Eastern Mediterranean together with their coasts.

The Fourth IGCP 521-INQUA 0501 Meeting will discuss: (1) the actual status of our knowledge on a range of subjects, and (2) scientific approaches to integrating environmental, anthropological, ethnological, and archaeological data in order to trace the history of ancient humans in the region and predict their future development in coastal zones under various sea-level scenarios. In addition, it will introduce young scientists, especially from the Eastern countries, to new analytical techniques and state-of-the-art interpretation of data; it will encourage east-west dialogue and integration of researchers from different countries into the international R&D community; and it will contribute to the preservation of cultural and religious heritage through the discussion of ancient cultures, civilizations, and their legends, e.g., the Great Flood, a catastrophe that is deeply rooted in the collective memory of humanity as described in several scriptures (the Christian Bible, Torah and Koran), but recently attributed to the Black Sea (Ryan et al., 1997, 2003; Chepalyga, 2007).

The meeting will be conducted over fifteen days. Four days will be spent on the technical sessions, and eleven days will be dedicated to the field trips.

## Technical Sessions

The TECHNICAL SESSIONS will be organized into four panels and eight ORAL / POSTER (marked by “P”) sessions:

### **PANEL 1: Paleogeographic and Paleoceanographic Reconstructions.**

*Moderators: Allan Chivas (Australia) [toschi@uow.edu.au](mailto:toschi@uow.edu.au), and Andrei Chepalyga (Russia) [igras@igras.geonet.ru](mailto:igras@igras.geonet.ru)*

### **Sessions 1, 2, 1P, and 2P. Geology, Paleoceanography and Paleogeography of the Caspian-Black Sea-Mediterranean Corridor.**

*Moderator: Gilles Lericolais (France) [Gilles.Lericolais@ifremer.fr](mailto:Gilles.Lericolais@ifremer.fr)*

This session will focus on geological, geophysical, sedimentological, geochemical, mineralogical, and paleoceanographic proxies for, and radiocarbon dating of, sea-level change and coastline migration in order to reconstruct paleogeography and paleoceanology, namely paleotemperature, paleosalinities, paleoproductivity, circulation patterns, and efficiency of gateways for given time intervals; tracing the evolution of water masses in space and time and identification of their possible sources; reconstruction of

climate dynamics and the changes from wet to arid periods; and determination of paleodepths and co-operation in the construction of sea-level curves.

### **Session 3 and 3P: Paleontology and Biostratigraphy.**

*Moderators: Tamara Yanina (Russia) didacna@mail.ru and Andrei Chepalyga (Russia) igras@igras.geonet.ru*

This session will focus on mollusks, foraminifera, ostracoda, diatoms, and dinoflagellate cysts in order to develop a regional, high-resolution, chronostratigraphic framework for the entire region, elaborating data on absolute age, bio- and ecostratigraphy.

### **Session 4: Active Tectonics.**

*Moderators: Yücel Yılmaz (Turkey) yyilmaz@khas.edu.tr and Hayrettin Koral (Turkey) hkoral@istanbul.edu.tr*

This session will consider the influence of active tectonics on coastal morphodynamics in order to understand their contribution to climatically-induced coastline migration. Cases suggesting the influence of tectonics on paleoceanographic, paleogeographic or archaeological features/data/sites in the BSMC are welcome in this session. General principles for elucidating tectonic effects and distinguishing them from climatic influences will be the focus.

### **Session 5 and 5P: Palynology.**

*Moderators: Petra Mudie (Canada) PMudie@nrca.gc.ca and Natalia Gerasimenko (Ukraine) geras@gu.kiev.ua*

This session will focus on the reconstruction of vegetation and the history of climate dynamics based on GIS-linked maps and models of changing vegetation using available pollen diagrams and surface samples from both marine and lake sites.

### **PANEL 2: GIS-linked Mathematical and Geological Modeling.**

*Moderators: Alexander Kislov (Russia) avkislov@mail.ru and Anvar Shukurov (UK) anvar.shukurov@newcastle.ac.uk*

### **Session 6: GIS-linked Mathematical and Geological Modeling.**

This session will concern GIS-linked mathematical modeling of climate change, human and ecosystem dispersal, and air-sea exchange in order to discover a possible correlation between environmental variations and the evolution of biodiversity and human adaptations.

### **PANEL 3: Archaeology, History, and Ethnology.**

*Moderators: Pavel Dolukhanov (UK) pavel.dolukhanov@ncl.ac.uk, Olena Smyntyna (Ukraine) smyntyna\_olena@onu.edu.ua, and Paolo Biagi (Italy) pavelius@unive.it*

### **Session 7: Archaeology, History, and Ethnology of the Caspian-Black Sea-Mediterranean Corridor.**

This session will focus on the assessment and correlation of available information on human adaptation to environmental change; the elaboration of databases of archaeological artifacts thus far obtained from the region; and the determination of prospective areas in the search for new archaeological sites (on land and underwater).

### **PANEL 4: Hot Spot Ecosystems of the Black Sea.**

*Moderator: Valentina Yanko-Hombach (Canada) valyan@avalon-institute.org*

### **Session 8P: Hot Spot Ecosystems.**

This session will focus on the influence of stressful environments on benthic communities of the Black Sea. Study sites will include hotspots, such as cold seeps and mud volcanoes where the geosphere and

hydrosphere influence the biosphere through escape of fluids, presence of gas hydrates, and deep-water currents. This session will contribute to the HERMES (Hotspot Ecosystem Research on the Margins of European Seas) project by assembling scientists from the HERMES community to coordinate their research and compare their results in order to provide a cross-disciplinary examination of the influence of stressful environments on biota.

### **Workshop: Navigation of the IGCP 521 Database.**

*Moderator: Ken Wallace (Canada)*

The Workshop will be focused on navigation of IGCP 521 database.

### **Conference Venue**

The conference will be held under the auspices of:

1. The National Institute of Marine Geology and Geoecology (GeoEcoMar), Romania, Dimitrie Onciul Street No. 23-25, Bucharest RO-70318, Romania, Telephone/Fax +40-21-252.25.94.
2. Museum of Natural History, 41 Maria Louisa Blvd., 9000 Varna, Bulgaria, Telephone +359-52-610243, Fax +359-52-681025.

The Technical Sessions will be conducted at:

**October 5:** The Conference Hall of the EURO Hotel, 4, Gheorghe Polizu Str., Bucharest (near the Gara de Nord, the main Railway Station of Bucharest).

**October 6-7:** The Conference Hall of the Romanian Academy Of Sciences (125, Calea Victoriei Str., Bucharest)

### **Accommodations**

In Bucharest (October 4-8, 15), Tulcea (October 8-11), and Varna (October 11-15) we have reserved a number of rooms in the hotel "EURO", Egreta, and Azalia, respectively (Table 1).

Table 1. List of hotels.

<b>Hotel</b>	<b>Room</b>	<b>Per night/per person* (Euro)</b>	<b>Date</b>
EURO Hotel (Bucharest)	Double (single occupancy)	84**	October 4-8, 2008
EURO Hotel (Bucharest)	Double (double occupancy)	42**	October 4-8, 2008
EURO Hotel (Bucharest)	Single	72**	October 4-8, 2008
Egreta Hotel (Tulcea)	Double (single occupancy)	45**	October 8-11, 2008
Egreta Hotel (Tulcea)	Double (double occupancy)	23**	October 8-11, 2008
Egreta Hotel (Tulcea)	Single	40**	October 8-11, 2008
Azalia Hotel (Varna)	Double (single occupancy)	47***	October 11-15, 2008
Azalia Hotel (Varna)	Double (double occupancy)	26***	October 11-15, 2008
Azalia Hotel (Varna)	Single	36***	October 11-15, 2008
EURO Hotel (Bucharest)	Double (single occupancy)	84*	October 16, 2008
EURO Hotel (Bucharest)	Double (double occupancy)	42*	October 16, 2008
EURO Hotel (Bucharest)	Single	72*	October 16, 2008

\*Hotel payment in Euro must be made directly to the hotel; price is subject to change.

\*\*Breakfast and all taxes are included.

\*\*\* Breakfast, dinner, and all taxes are included.

## **Registration Fee**

The registration fee covers conference kit, refreshments during coffee breaks, lunches during field trips, museum entrance fees, and bus transportation during the field trip. **It does not cover hotel accommodation, Conference Dinner, as well as dinners during the conference and field trips.**

## **Schedule**

**4 October, 2008:** Arrival in Bucharest; 14.00-19.00 - Registration at the EURO Hotel.

**5 October, 2008:** Opening Ceremony and Technical Sessions - Conference Hall of the EURO Hotel.

**6 October, 2008:** Oral and Poster Technical - Conference Hall of the Romanian Academy of Sciences.

**7 October, 2008:** Oral and Poster Technical Sessions - Conference Hall of the Romanian Academy of Sciences.

**8-15 October, 2008:** Field Trips (Figure 1).

**8 October, 2008:** Transfer of participants from Bucharest to Tulcea and visit to the town in the evening. Dinner and overnight in Tulcea.

**9 October, 2008:** Field trip on a boat to the mouth zone of the St. George distributary - St. George village, the secondary delta, Sakhalin island, and the beach. Return to Tulcea in the evening. Lunch on the boat. Dinner and overnight in Tulcea.

**10 October, 2008:** Field trip on a boat to the Caraorman accumulative formation, Caraorman village, the lakes Puiu - Rosu, and the Old Danube. Return to Tulcea in the evening. Lunch on the boat. Dinner and overnight in Tulcea.

**11 October, 2008:** Field trip to Istria (by bus), visit to Istria. Lunch at Constanța. Continue traveling to the Romanian-Bulgarian border, passing the border, and travel to Varna. Dinner and overnight in Varna. Follows by the Bulgarian part of the field trip (Figure 1).

**12 October, 2008:** Field trip along the northern Bulgarian Black Sea coast: Durankulak Lake (Archaeological Park Durankulak and Museum in Durankulak); Shabla Lake (Paleoecological reconstructions and human activities over the last 7 kyrs); Krapetz coastal area (loess section and buried soils; Pleistocene/Holocene boundary; Cape Kaliakra, the ancient Thracian, Byzantine, Roman and Bulgarian city; Town of Balchik; archaeology and history of the ancient Greek city of Dionisopolis. Lunch nearby the Durankulak Lake. Dinner and night in Azalia Hotel in Varna.

**13 October, 2008:** Field trip along the southern Bulgarian Black Sea coast: Kiten Archaeological Museum; archaeology of Early Bronze Age settlement; Town of Sozopol: Submerged prehistoric settlements of Late Eneolithic and Early Bronze Age date in the Harbor of Sozopol; Archaeological excavations of the Apollonia Pontica necropolis of the Early Hellenistic Period; Sozopol Archaeological Museum; Town of Nessebar: archaeology and history of the ancient Greek city of Mesembria. Lunch in Sozopol, dinner in Nessebar, night in Azalia hotel.

**14 October, 2008:** Field trip to the Kamchia River estuary with flooded riverine forest "Longoz" and Byala anticline, section with the boundary of Upper Cretaceous/Tertiary profile. Lunch and dinner to be defined, night in Azalia hotel.

**15 October, 2008:** Closing session and ceremony in Varna. Guided visit to the Archaeological Museum in Varna famous for the oldest gold in the world. Cocktails with the Director of the Museum. Departure to Bucharest at 13.00-14.00. Late evening arrival in Bucharest.

**16 October, 2008:** Departure of participants from Bucharest to their respective countries.

## **Social program**

**October 5:** Conference Dinner (tickets for purchase).

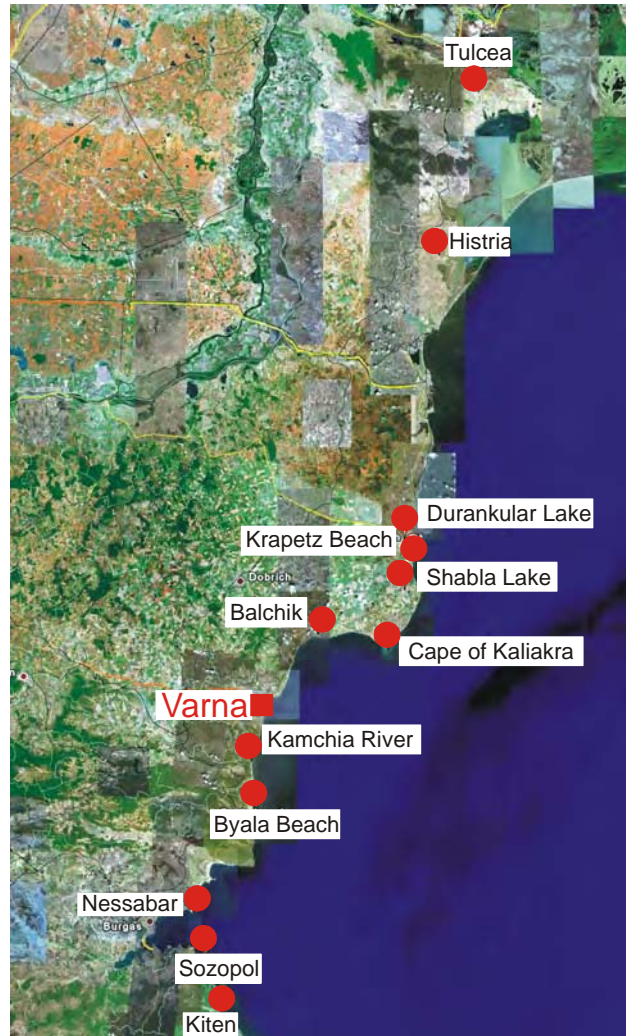
**October 15:** Cocktails with the Director of the Archaeological Museum in Varna (free).

## Figure 1. Field Trips



A

Figure 1. A – Locations of IGCP 521-INQUA 0501 Plenary Meetings and Field Trips: 2005 – Istanbul, Turkey (Sea of Marmara coast); 2006 – Odessa, Ukraine; 2007 – Gelendzhik, Russia; Kerch, Ukraine; 2008 – Bulgaria, Romania; 2009 – Greece or Turkey (Aegean and Eastern Mediterranean coast) [to be decided]; Red square indicates location of the Meeting and Field Trips in Romania and Bulgaria in 2008. B - Geological and archaeological sites to be visited during the Field Trips in Romania and Bulgaria.



B

### Refund policy

Fifty percent refund before July 31, 2008. No refund is possible after July 31, 2008.

### Conference Language

The official conference language is English.

### Oral and Poster Presentation

Each speaker will have 20 minutes for presentation including questions. Poster format is 100x180 cm.

Projection Equipment: Screens, LCD (PowerPoint presentation) projectors and overhead projectors are available.

### Publication

Accepted abstracts will be published in the Abstract Volume. The full papers will be published in an IGCP 521 Fourth Special Volume of the journal *Quaternary International*. For preparation of the manuscript, refer to Instructions for Contributors.

## Visa

Visitors from other countries must carry a valid passport and, in certain cases, visas to be able to enter Bulgaria and Romania. For more information on visas and other required travel documents, please contact the Bulgarian and Romanian Embassy or Consulate in your area before your departure. Invitation Letters will be provided upon request. Each attendee is responsible for obtaining his/her visa.

## Climate

Early October is the most favorable time of the year for field trips. Daily temperature is about 20°C, and at night, it is about 15°C.

## Travel

Bucharest is easily accessible by plain, train, and bus. No pick up in the Bucharest Airport will be provided.

## Dates and Time

July 31, 2008	Deadline for early registration.
August 31, 2008	Second Circular of the conference available at <a href="http://www.avalon-institute.org/IGCP">http://www.avalon-institute.org/IGCP</a> .
August 26, 2008	Program of the conference is available at <a href="http://www.avalon-institute.org/IGCP">http://www.avalon-institute.org/IGCP</a> .
March 15, 2008	Paper submission to <i>Quaternary International</i> journal opens.
December 31, 2008	Paper submission to <i>Quaternary International</i> journal closes.



A topographic map of the Black Sea-Mediterranean region, showing the Black Sea, the Bosphorus, the Mediterranean Sea, and the surrounding landmasses. The map uses a color scale from green (low elevation) to red and orange (high elevation) to represent terrain. The Black Sea is in the center, with the Bosphorus connecting it to the Mediterranean Sea to the south. The surrounding landmasses include Europe to the west and Asia to the east.

## **UNESCO - IUGS - IGCP - INQUA**

**IGCP 521 - INQUA 0501 FOURTH PLENARY MEETING AND FIELD TRIP**

**IGCP 521 "BLACK SEA-MEDITERRANEAN CORRIDOR DURING THE LAST  
30 KY: SEA LEVEL CHANGE AND HUMAN ADAPTATION (2005 - 2009)**

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(2008-2010)**

**4-16 October, 2008**

<http://www.avalon-institute.org/IGCP>  
<http://www.geocomar.ro>