



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

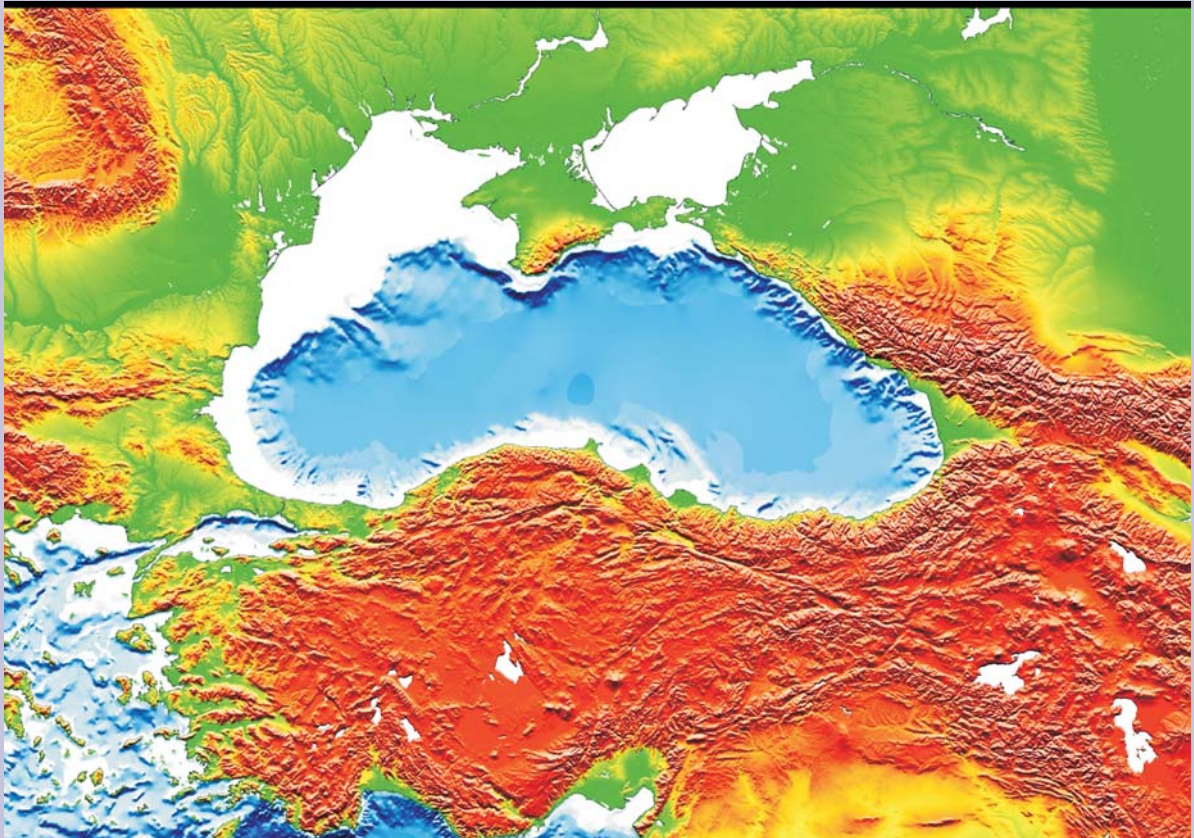


**Department of Natural History of
the Regional Historical Museum
Varna, Bulgaria**



4-16 October, 2008

International Geoscience Programme



PROGRAMME

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)**

CONTENTS

4-5 OCTOBER 2008	3
ARRIVAL AND REGISTRATION	3
5 OCTOBER 2008	3
OPENING CEREMONY: CONFERENCE HALL OF THE EURO HOTEL	3
TECHNICAL SESSIONS: CONFERENCE HALL OF THE EURO HOTEL	3
PANEL 1: Paleogeographic and Paleoceanographic Reconstructions.....	3
Session 1. Geology, Paleoceanography, and Paleogeography of the Caspian-Black Sea-Mediterranean Corridor.....	3
6 OCTOBER 2008	5
TECHNICAL SESSIONS: CONFERENCE HALL OF THE ROMANIAN ACADEMY OF SCIENCES	5
PANEL 1: Paleogeographic and Paleoceanographic Reconstructions.....	5
Session 2. Geology, Paleoceanography and Paleogeography of the Caspian-Black Sea-Mediterranean Corridor.....	5
Session 3. Paleontology and Biostratigraphy.....	6
Session 4. Active Tectonics.....	6
CONFERENCE DINNER.....	7
POSTER SESSION	7
7 OCTOBER 2008	9
TECHNICAL SESSIONS: CONFERENCE HALL OF THE ROMANIAN ACADEMY OF SCIENCES	9
PANEL 1: Paleogeographic and Paleoceanographic Reconstructions.....	9
Session 5. Palynology.....	9
PANEL 2: GIS-linked Mathematical and Geological Modeling.....	10
Session 6. GIS-linked Mathematical and Geological Modeling.....	10
PANEL 3: Archaeology, History, and Ethnology.....	10
Session 7. Archaeology, History, and Ethnology of the Caspian-Black Sea-Mediterranean Corridor.....	10
WORKSHOP: NAVIGATION OF THE IGCP 521 DATABASE.....	11
FIELD TRIPS.....	11
8 OCTOBER 2008	11
Field Trip 1 (by bus). Transfer of participants from Bucharest to Tulcea.	
9 OCTOBER 2008	11
Field Trip 2 (by boat). The mouth zone of the St. George distributary – the St. George village, the secondary delta, Sakhalin island, and the beach.	
10 OCTOBER 2008	11
Field Trip 3 (by boat). The Caraorman accumulative formation, Caraorman village, the lakes Puiu – Rosu, the Old Danube.	
11 OCTOBER 2008	11
Field Trip 4 (by bus). Visit to Histria Fortress and Constanța Main Square. Continuation of traveling to Romanian-Bulgarian border, passing the border and travel to Varna.	

12 OCTOBER 2008	12
Field Trip 5 (by bus). The northern Bulgarian Black Sea coast.	
13 OCTOBER 2008	12
Field Trip 6 (by bus): The southern Bulgarian Black Sea coast.	
14 OCTOBER 2008	12
Field Trip 7. The Kamchia River estuary.	
15 OCTOBER 2008	12
Closing session and ceremony in Varna. Departure from Varna to Bucharest by the conference bus.	
16 OCTOBER 2008	12
Departure of participants from from Bucharest to respective countries.	

4, 5 October 2008

ARRIVAL AND REGISTRATION

4 October 14.00-19.00	Lobby of the EURO Hotel where IGCP 521 Meeting participants will stay. The hotel is located on Gheorghe Polizu Street, No. 4, Bucharest (nearby the Gara de Nord, the main Railway Station of Bucharest).
5 October 8.00-18.00	http://www.hotelnet.ro/ro/bucuresti/euro-hotels-bucharest-ro.htm Tel +41-21-4116690

5 October 2008

OPENING CEREMONY: CONFERENCE HALL OF THE EURO HOTEL

Chairpersons:	<i>Yücel Yılmaz (Turkey)</i> <i>Pavel Dolukhanov (U.K.)</i>
9.10-9.30	Welcome. <i>N. Panin, Co-President of the Conference (Romania)</i> <i>M. Filipova-Marinova, Co-President of the Conference (Bulgaria)</i>
9.30-9.50	IGCP 521 “Black Sea-Mediterranean Corridor during last 30 ky: Sea level change and human adaptation”: Third year progress report. <i>V. Yanko-Hombach (Co-Leader of IGCP 521; Leader of INQUA 0501; Canada, Ukraine)</i>

TECHNICAL SESSIONS: CONFERENCE HALL OF THE EURO HOTEL

PANEL 1: Paleogeographic and Paleoceanographic Reconstructions.

Moderators: *Allan Chivas (Australia)* and *Andrei Chepalyga (Russian Federation)*.

Session 1. Geology, Paleoceanography, and Paleogeography of the Caspian-Black Sea-Mediterranean Corridor.

Chairpersons:	<i>Ivar Murdmaa (Russian Federation)</i> <i>Gilles Lericolais (France)</i>
9.50-10.20	Aminostratigraphy of coastal sedimentary sequences, Kerch Strait, northeastern Black Sea (key-note). <i>W.A. Nicholas (U.K.), A.R. Chivas (Australia), C.V. Murray-Wallace (Australia), V. Yanko-Hombach (Canada, Ukraine), A. Chepalyga (Russian Federation), and S. Kadurin (Ukraine)</i>

- 10.20-10.40 Rapid sea-level fluctuations in the Black Sea stimulated by repeated freshwater discharge events.
R. Martin (U.S.A.) and V. Yanko-Hombach (Canada, Ukraine)
- 10.40-11.00 **Coffee Break**
- 11.00-11.20 The Gibraltar Sill: Gates of the Black Sea-Mediterranean Corridor.
I.O. Murdmaa, Yu.D. Evsyukov, N.B. Keller, and K.M. Shimkus (Russian Federation)
- 11.20-11.40 Erosion and accumulation on the Bulgarian seashore under conditions of sea-level rise.
V. Peychev (Bulgaria) and D. Dimitrov (Bulgaria)
- 11.40-12.00 Landscape features of the northern Black Sea continental slope as paleoceanological indicators.
I.P. Bondarev (Ukraine)
- 12.00-12.20 Changes in sediment composition of the modern Demre beaches (southwestern Turkey) in relation to various terrestrial and marine conditions.
M. Ergin, S. Özdoğan, Z. Karakaş, and K. Sözeri (Turkey)
- 12.20-12.40 The assessment of radiocarbon reservoir age for antique time on the shoreline of the Kerch Strait (Black Sea).
Kh. Arslanov (Russian Federation), Ch. Morhange (France), A. Porotov (Russian Federation), V. Zinko (Ukraine), and A. Maslennikov (Russian Federation)
- 12.40-13.00 Geocatastrophic events in the Black Sea and the geological Pleistocene–Holocene boundary.
D. Dimitrov (Bulgaria) and P. Dimitrov (Bulgaria)
- 13.00-14.00 **Lunch.**
Business meetings of the Working and Regional Groups.
- Chairpersons: *Elmira Aliyeva (Azerbaijan)*
Majid Ownegh (Iran)
- 14.00-14.20 Upper Neogene sedimentary relationships between the Carpathian source-area, Dacian Basin, and the Black Sea depression.
D. Jipa (Romania)
- 14.20-14.40 Economic use of the Black Sea sapropels.
D. Dimitrov (Bulgaria) and P. Dimitrov (Bulgaria)
- 14.40-15.00 Analysis of meiobenthos structure in estuaries of Southwestern Crimea under the impact of technogenic pollution.
A.N. Petrov, N.G. Sergeeva, A.V. Terlets kaya, and A.Ya. Demchenko (Ukraine)
- 15.00-15.20 Distribution of Holocene sediment thickness on the northwestern Black Sea shelf.
S. Kadurin, L.Yu. Eriomina, and E.P. Larchenkov (Ukraine)
- 15.20-15.40 Depositional environments of the Northwestern Black Sea inner and middle shelf during the Late Pleistocene and Holocene.
E.P. Larchenkov, S. Kadurin, and S.D. Kakaranza (Ukraine)
- 15.40-16.00 **Coffee Break**

- 16.00-16.20 Climatically–forced Pliocene–Holocene Caspian Sea level fluctuations.
E. Aliyeva, D. Huseynov, U. Mehdiyev, A. Kaufman, A. Babazadeh, and E. Amirov (Azerbaijan)
- 16.20-16.40 Chronology of the Khvalynian sea-level oscillations: new data and approach.
A. Chepalyga, Kh. Arslanov, and T. Svetlitskaya (Russian Federation)
- 16.40-17.00 Depositional environment of the Early Pliocene sediments in the Absheron peninsula based on the straco isotope composition of sulfates.
D. Huseynov and E. Aliyeva (Azerbaijan)
- 17.00-17.20 Coastal modification impacts on Caspian rapid sea-level changes and beach erosion vulnerability hazard.
H. Khoshnavan (Iran)
- 17.20-17.40 Impacts of sea-level changes on the morphology of the south Caspian coast, Central Guilan, Iran.
H. Lahijani, A. Naderi Beni, M. Shahosseini, and V. Tavakoli (Iran)
- 17.40-18.00 Reconstructing a geomorphological event in the Late Quaternary: Coastal sand dune and river meander crossing in the Gorgan Plain, southeast Caspian Sea, Iran.
M. Ownegh (Iran)

6 October 2008

TECHNICAL SESSIONS: CONFERENCE HALL OF THE ROMANIAN ACADEMY OF SCIENCES (125, CALEA VICTORIEI STREET, BUCHAREST)

PANEL 1: Paleogeographic and Paleoceanographic Reconstructions.

Moderators: *Allan Chivas (Australia)* and *Andrei Chepalyga (Russian Federation)*.

Session 2. Geology, Paleoceanography and Paleogeography of the Caspian-Black Sea-Mediterranean Corridor.

Chairpersons: *Anthony Nicholas (U.K.)*
Allan Chivas (Australia)

- 9.00-9.20 A PreBoreal Danube paleo-delta at -100 m evidenced on the Romanian Black Sea shelf.
G. Lericolais (France), A. Minereau (France), F. Guichard (France), C. Morigi (Italy), I. Popescu (Romania), N. Panin (Romania), and G. Soulet (France)
- 9.20-9.40 Last lake to marine transition in the Black Sea reconstructed by means of geochemical pore water profiles.
G. Soulet, G. Delaygue, C. Vallet-Coulomb, C. Sonzogni, G. Lericolais, and E. Bard (France)
- 9.40-10.00 Amino acid racemisation and AMS radiocarbon dating of Holocene Black Sea core sediments.
W.A. Nicholas, A.R. Chivas, C.V. Murray-Wallace (Australia), and V. Yanko-Hombach (Canada, Ukraine)

- 10.00-10.20 Buried large-scale erosion forms on the Middle Russian Upland—the monument to geology of the Eemian and Wurm.
S.A. Sycheva, M.A. Bronnikova, A.A. Golyeva, I.V. Kovda, and A.N. Simakova (Russian Federation)
- 10.20-10.40 Coastal land use in Turkey and legal evaluation.
S. Sazak (Turkey)

10.40-11.00

Coffee Break

- 11.00-11.20 Cycles of solar luminosity and Black Sea levels after the Last Glacial Maximum.
K.R. Slavova (Bulgaria)
- 11.20-11.40 Post glacial changes of the Black Sea and Caspian Sea level: a comparison.
V.M. Sorokin, O.V. Levchenko, I.O. Murdmaa, and V.A. Putans (Russian Federation)
- 11.40-12.00 The present volcanic activity of Mt Elbrus and attempts to correlate its eruptions with Caspian Sea levels.
V.P. Alekseev, N.G. Alekseeva, M.G. Daniyalov, P.A. Moirozov, and P.V. Khlebopashev (Russian Federation)

Session 3. Paleontology and Biostratigraphy.

Moderators: Tamara Yanina (Russian Federation) and Andrei Chepalyga (Russian Federation).

*Chairpersons: Ronald Martin (U.S.A.)
Mihaela Melinte (Romania).*

- 12.00-12.20 Late Holocene paleohydrological reconstruction of the Lower Dniester and Black Sea based on molluscan fauna from the Chobruchi settlement.
A. Chepalyga (Russian Federation) and V. Kishliariuk (Moldova)
- 12.20-12.40 Holocene biotic changes in the Northwestern Black Sea.
M. C. Melinte and G. Oaie (Romania)
- 12.40-13.00 Fossil fish fauna from ancient settlements of the Lower Dniester region.
V. Kishliariuk (Moldova)

13.00-14.00

Lunch.

Business meetings of the Working and Regional Groups.

- 14.00-14.20 Recent ostracoda faunas from MD04-2770 (Black Sea).
M. Stoica and A. Floroiu (Romania)
- 14.20-14.40 The role of paleontology in the conservation of antique building stone in Thrace and Istanbul.
A.G. Küçükkaya and M. Dal (Turkey)

Session 4. Active Tectonics.

Moderators: Y. Yılmaz and H. Koral (Turkey)

*Chairpersons: Evgeniy Larchenkov (Ukraine)
Antoneta Seghedi (Romania)*

14.40-15.10	Tectonics of the Aegean and Thracian extensional terrain and its role in morphology and settlement (key-note). <i>Y. Yilmaz (Turkey)</i>
15.10-15.30	Neogene stratigraphy of northwestern Turkey along the North Anatolian Fault, and its tectonic implications for the region. <i>H. Koral (Turkey)</i>
15.30-16.00	Coffee Break
16.00-18.00	Poster Session
19.00	Conference Dinner

POSTER SESSION

PANEL 1: Paleogeographic and Paleoceanographic Reconstructions.

Moderators: *Allan Chivas (Australia)* and *Andrei Chepalyga (Russian Federation)*.

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

1. Radiocarbon age of the Khvalynian Manych Passage.
Kh. Arslanov and T. Yanina (Russian Federation)
2. The possibility of Late Pleistocene connections between the Caspian and Black Sea through the Manych passage.
E.N. Badyukova (Russian Federation)
3. Instrumental seismoprognostic monitoring of water area and western coast of the central Caspian Sea.
M.G. Daniyalov, A.Sh. Ismailov, and R.A. Levkovich (Russian Federation)
4. About some hydrophysical and lithodynamic processes occurring in the Black Sea and in the Bosphorus Strait during the Holocene.
N.V. Esin (Russian Federation)
5. The Pre-Holocene deepening of river valleys in the coastal area of the Caucasus and the estimation of the magnitude of the Antian regression in the Black Sea.
Ya.A. Izmailov (Russian Federation)
6. Understanding the origin of large transgressive and regressive stages of the coupled Black Sea–Caspian Sea system during the recent geological past.
A. Kislov (Russian Federation)
7. GIS use for assessing the morphodynamic evolution of the St. George distributary (Danube Delta) between 1880–2000.
L. Jugaru and F. Dutu (Romania)
8. Sea-Level fluctuations in the Black and Caspian Seas and Global Climate Change.
O. Likhodedova and E. Konikov (Ukraine)
9. Late Pleistocene–Holocene geological history of the Danube–Dniester Shelf (Northwestern Black Sea).
G. Pedan (Ukraine)
10. Neoeuxinian and Holocene transgressive-regressive cycles of the Black Sea: New data from the northeastern shelf.
E.A. Platonova, E.V. Ivanova, and O.V. Levchenko (Russian Federation)

Session 3P. Paleontology and Biostratigraphy.

11. Foraminiferal response to Eastern Mediterranean circulation and oxygenation during sapropel S1 formation.
Antonarakou, H. Drinia, G. Kontakiotis, and G. Anastasakis (Greece)
12. Microbial communities and stromatolites of Crimea.
L.M. Gerasimenko, O.S. Mikhodyuk, Yu.Yu. Berestovskaya, L.V. Vasilieva, V.K. Orleansky, and G.T. Ushatinskaya (Russian Federation)
13. Macrobenthos distribution along the depth gradient in the Northwestern Black Sea.
M.-T. Gomoiu, T. Begun, and A. Teaca (Romania)
14. On the presence of *Ctenicella* – *Polydora* sub-community on the *Modiolus phaseolinus* muddy bottoms.
M.-T. Gomoiu, A. Teaca, and T. Begun (Romania)
15. Subdivision of the Mtavari suite (Odishian-Okribian facial type) based on planktonic foraminifera.
Kh. Mikadze (Georgia)
16. Neoeuxinian fauna in the northwestern part of the Black Sea.
P. Opreanu (Romania)
17. Paleogeography of Western Ciscaucasia and Pliocene microfauna.
T.N. Pinchuk, L.V. Burindina, and E.A. Bondar (Russian Federation)

Session 5P. Palynology.

18. Dinocyst eco-assemblages in the Black Sea-Mediterranean: proxies of salinity and nutrients.
F. Marret (U.K.), P. Mudie (Canada), S. Kholeif (Egypt), and K. Wallace (Canada)

PANEL 3: Archaeology, History, and Ethnology.

Moderators: Pavel Dolukhanov (UK) and Olena Smyntyna (Ukraine)

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

19. Current aspects of geophysical research at the archaeological site of Histria.
S. Anghel (Romania)
20. Geodynamic and hydro-geological constraints regarding the extension of the prospective archaeo-cultural areas along the northern Romanian littoral zone
R.G. Dimitriu (Romania)
21. Prehistoric cultures along the coastal areas of Turkey and the impact of changing marine environments: An overview.
M. Özdoğan (Turkey)
22. Transmigrations as a mechanism of living space exploration in the Northwestern Black Sea region at the Pleistocene–Holocene boundary.
A.A. Stratonova (Ukraine)

PANEL 4: Hot Spot Ecosystems of the Black Sea.

Moderator: Valentina Yanko-Hombach (Canada, Ukraine)

Session 8P. Hot Spot Ecosystems.

23. Meiobenthos of the coastal redox zone (Kruglaya Bay, Black Sea).
N.G. Sergeeva, M.B. Gulin, and E.A. Ivanova (Ukraine)

24. Cold seeps and mud volcanoes of the Black Sea region: tectonics, lithology, geophysics, and biogeochemistry.
E. Shnyukov, Yu. Inozemtsev, A. Parishev, E. Konikov, V. Yanko-Hombach, S. Kadurin, G. Pedan, and O. Smyntyna (Ukraine)
25. Cyanobacteria in the marine benthic microflora around sulphur mustard dumpsites.
L.L. Smirnova and N.A. Andreeva (Ukraine)
26. Lithology, biochemistry, and micropaleontology of mud volcanoes and high-intensity cold seeps on the bottom of the Black Sea and Sea of Azov.
V. Yanko-Hombach, E. Konikov, A. Kravchuk, S. Kadurin, V. Kravtsov, E. Larchenkov, and O. Smyntyna (Ukraine)

*P – poster

7 October 2008

TECHNICAL SESSIONS: CONFERENCE HALL OF THE ROMANIAN ACADEMY OF SCIENCES (125, CALEA VICTORIEI STREET, BUCHAREST)

PANEL 1: Paleogeographic and Paleoceanographic Reconstructions.

Moderators: *Allan Chivas (Australia)* and *Andrei Chepalyga (Russian Federation)*.

Session 5. Palynology.

Moderators: *Petra Mudie (Canada)* and *Natalia Gerasimenko (Ukraine)*.

- Chairpersons: *Mariana Filipova-Marinova (Bulgaria)*
Tatiana Sapelko (Russian Federation)
- 8.50-9.20 Palynostratigraphy of Pleistocene and Holocene sediments from the western Black Sea (key-note).
M. Filipova-Marinova (Bulgaria)
- 9.20-9.40 Correlation of results from the pollen analysis of “natural” and archaeological sediment sequences for paleoenvironmental reconstruction in the Black Sea region.
T. Sapelko (Russian Federation)
- 9.40-10.00 Patterns of vegetational changes in the Southern Ukraine during the Late Glacial.
N. Gerasimenko, G. Pashkevich, and M. Gladyshevskaya (Ukraine)
- 10.00-10.20 The Holocene history of vegetation in the region of Srebarna Lake (NE Bulgaria).
M. Lazarova and E. Bozilova (Bulgaria)
- 10.20-10.40 Environment of the Late Bronze cultures in the Lower Bug and Dnieper areas.
N. Gerasimenko, Ya. Gershkovich, and V. Fomenko (Ukraine)
- 10.40-11.00 Did the Laurentide Ice Sheet Floodwater change the history of European Civilization?
P.J. Mudie (Canada), F. Marret (U.K.), R.N. Hiscott (Canada), and A.E. Aksu (Canada)
- 11.00-11.20 **Coffee Break**

PANEL 2: GIS-linked Mathematical and Geological Modeling.
Moderators: Alexander Kislov (Russia) and Anvar Shukurov (U.K.)

Session 6. GIS-linked Mathematical and Geological Modeling.

- Chairpersons: *Ken Wallace (Canada)*
Ol'ga Kukleva (Russian Federation)
- 11.20-11.40 Study of mixing and stratification in tidal channel (Bushehr port).
Z. Azadbakht (Iran) and H. Komijani (Iran)
- 11.40-12.00 Theoretical curve of the Black Sea level change in the Holocene.
N. Esin and O. Kukleva (Russian Federation)
- 12.00-12.20 Numerical modeling and observational studies of flows in coastal tidal channels.
Z. Azadbaht (Iran)

PANEL 3: Archaeology, History, and Ethnology.
Moderators: Pavel Dolukhanov (UK) and Olena Smyntyna (Ukraine)

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

- Chairpersons: *Olena Smyntyna (Ukraine)*
Pavel Dolukhanov (U.K.)
- 12.20-12.40 The Black and Caspian Seas in Early- Mid-Holocene: climate, sea levels and the spread of Neolithic.
P.M. Dolukhanov (U.K.), N.P. Gerasimenko (Ukraine), G.A. Pashkevich (Ukraine), N.N. Kovalyukh (Ukraine), V.V. Skripkin (Ukraine), G. Zaitseva (Russian Federation), and T.V. Sapelko (Russian Federation)
- 12.40-13.00 Black Sea and Caspian Basins in Late Pleistocene: sea-level changes, climate and early human settlement.
P.M. Dolukhanov (U.K.), A.L. Chepalyga (Russian Federation), N.V. Lavrentiev (Russian Federation), S. Kadurin (Ukraine), E.P. Larchenkov (Ukraine), and V.K. Shkatova (Russian Federation)
- 13.00-14.00 **Lunch.**
Business meetings of the Working and Regional Groups.
- Chairpersons: *Olena Smyntyna (Ukraine)*
Pavel Dolukhanov (U.K.)
- 14.00-14.20 The evolution of the Taman Peninsula (SW Russia)–Evidence for another Bosphorus between the Black Sea and the Sea of Azov.
D. Kelterbaum (Germany), H. Brückner (Germany), A. Porotov (Russian Federation), U. Schlotzhauer (Germany), and D. Zhuravlev (Russian Federation)
- 14.20-14.40 On the boundary of Europe and Asia: A geoarchaeological approach to the reconstruction of Tanais.
V. Kozlovskaya (U.S.A.)

- 14.40-15.00 Environment and economic activities population on the northern Pontic area in the Neolithic and Bronze age.
G. Pashkevich (Ukraine)
- 15.00-15.20 Transmigrations as a mechanism of living space exploration in the Northwestern Black Sea region at the Pleistocene–Holocene boundary.
O.V. Smyntyna (Ukraine)
- 15.20-15.40 Navigation in the Black Sea (VI – II millennium B.C.) in the context of the Eastern Mediterranean.
P. Peev (Bulgaria)
- 15.40-16.00 Implication of geology in reconstruction of Greek citadels – harbours on the Black Sea.
A. Seghedi, G. Oaie, M.M. Raşcov, and V. Paraschiv (Romania)
- 16.00-16.20 Landscape change and archaeological settlements in the lower Danube valley and delta from Early Neolithic to Chalcolithic time: a review.
Jean.-M. Carozza (France), C. Micu (France), F. Mihail (Romania), and L. Carozza (France)
- 16.20-16.40 **Coffee Break**
- 16.40-18.00 **WORKSHOP: NAVIGATION OF THE IGCP 521 DATABASE.**
Moderator: Ken Wallace (Canada)

FIELD TRIPS

8 October 2008

Field Trip 1 (by bus). Transfer of participants from Bucharest to Tulcea and visit to the town in the evening. Overnight in Tulcea.

9 October 2008

Field Trip 2 (by boat). The mouth zone of the St. George distributary – the St. George village, the secondary delta, Sakhalin island, and the beach. Return to Tulcea in the evening. Overnight in Tulcea.

10 October 2008

Field Trip 3 (by boat). The Caraorman accumulative formation, Caraorman village, the lakes Puiu – Rosu, the Old Danube. Return to Tulcea in the evening. Overnight in Tulcea.

11 October 2008

Field Trip 4 (by bus). Visit to Histria Fortress and Constanța Main Square. Continuation of traveling to Romanian-Bulgarian border, passing the border and travel to Varna. Overnight in Varna.

12 October 2008

Field Trip 5 (by bus). The northern Bulgarian Black Sea coast: Durankulak Lake: Archaeological Park of Durankulak and Museum in Durankulak. Shabla Lake: Paleocological reconstructions and human activities for the last 7 kyrs. Krapetz coastal area: Loess section and buried soils; boundary Pleistocene/Holocene. Cape of Kaliakra, the ancient Thracian, Byzantine, Roman, and Bulgarian city.

13 October 2008

Field Trip 6 (by bus): The southern Bulgarian Black Sea coast: Town of Sozopol: Submerged prehistoric settlements of the Late Eneolithic and Early Bronze Age in the harbour of Sozopol; Apollonia Pontica necropolis; Sozopol Archaeological Museum. Submerged archaeological site Kiten (Urdoviza). Town of Nessebar: archaeology and history of the ancient Greek city of Mesambria.

14 October 2008

Field Trip 7. The Kamchia River estuary with flooded riverine forests “Longoz” and Byala anticline, the boundary of Upper Cretaceous/Tertiary profile. Kamchia Biosphere Nature Reserve. Byala anticline.

15 October 2008

8-14.00 Closing session and ceremony in Varna. Guided visit to the Archaeological Museum in Varna famous for the oldest gold in the world. Cocktail from the Director of the Museum. Departure to Bucharest.

14.00 Departure from Varna to Bucharest by the conference bus. Overnight in Bucharest.

16 October 2008

Departure of participants from Bucharest to respective countries.

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 gradient 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. The surrounding landmasses include Europe to the west and Asia to the east.

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IGCP 521 - INQUA 0501 FOURTH PLENARY MEETING AND FIELD TRIP

**IGCP 521 "BLACK SEA-MEDITERRANEAN CORRIDOR DURING THE LAST
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(2008-2010)**

4-16 October, 2008

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