



HELLENIC CENTRE FOR MARINE RESEARCH

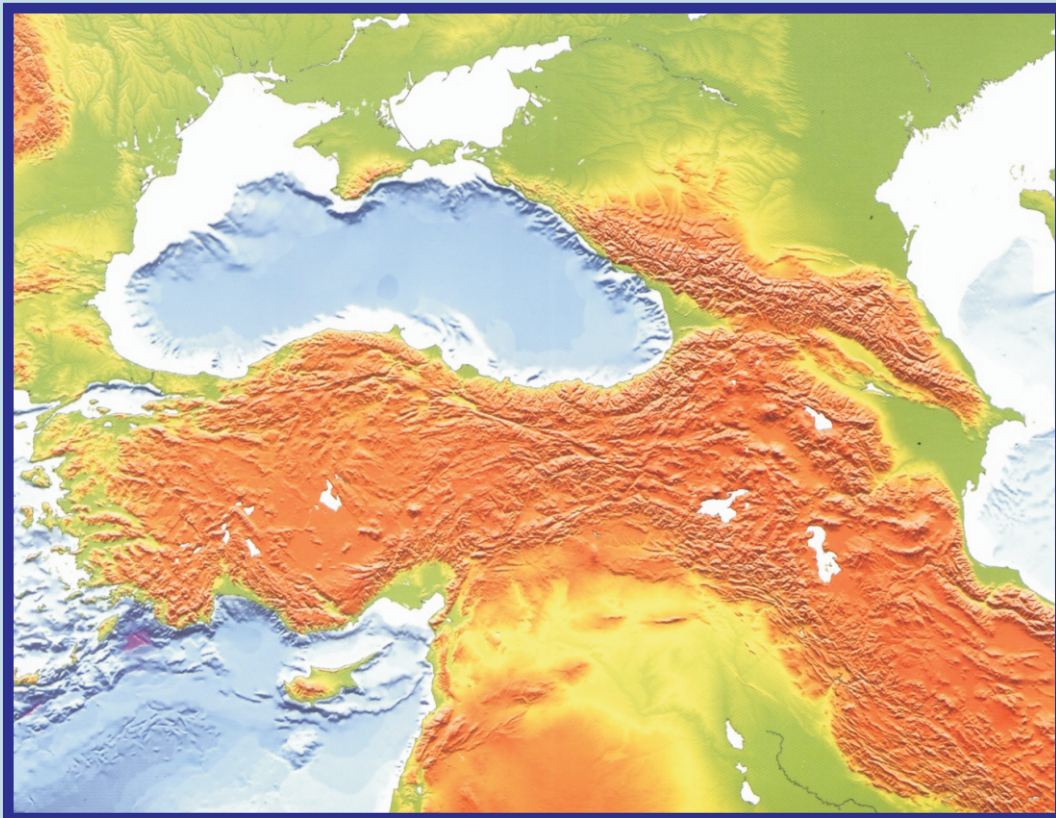


**Hellenic Centre for Marine
Research at the
Hydrobiological Station of
Rhodes
Island of Rhodes, Greece**



27 September - 5 October, 2010

INTERNATIONAL GEOSCIENCE PROGRAMME



PROGRAMME

IGCP 521 - INQUA 501 Sixth Plenary Meeting and Field Trip

**IGCP 521 "BLACK SEA-MEDITERRANEAN CORRIDOR DURING
THE LAST 30 KY: SEA LEVEL CHANGE AND HUMAN ADAPTATION
(2005 - 2010)**

**INQUA 501 "CASPIAN-BLACK SEA-MEDITERRANEAN CORRIDOR
DURING LAST 30 KY: SEA LEVEL CHANGE AND HUMAN
ADAPTIVE STRATEGIES" (2005-2011)**

IGCP 521-INQUA 501 Sixth Plenary Meeting and Field Trip, Island of Rhodes, Greece

27 September - 5 October 2010

ORGANIZERS

Hellenic Centre for Marine
Research at the Hydrobiological
Station of Rhodes, Greece

Avalon Institute of Applied Science

SPONSORS

INQUA

Avalon Institute of Applied Science,
Canada

Hellenic Centre for Marine Research
at the Hydrobiological Station of
Rhodes, Greece

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Hellenic Centre for Marine
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Island of Rhodes, Greece



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27 SEPTEMBER 2010

ARRIVAL AND REGISTRATION

27 September
17.30-19.30 Hellenic Centre for Marine Research, Hydrobiological Station of Rhodes, Cos Street, 851 00 Rhodes, Greece
28 September
08.30-18.00 Tel : +30 2241027308, +30 2241078320; Fax: +30 22410 78321; Email: hsr@hsr-ncmr.gr

ICE-BREAKING PARTY

20.00 Hellenic Centre for Marine Research, Hydrobiological Station of Rhodes, Cos Street, 851 00 Rhodes, Greece

28 - 30 SEPTEMBER 2010: TECHNICAL SESSIONS

Hellenic Centre for Marine Research, Hydrobiological Station of Rhodes, Cos Street, 851 00 Rhodes, Greece

28 September

Chairpersons: Dimitris SAKELLARIOU, Chairman of the Organizing Committee (Greece)
Yücel YILMAZ, Co-Leader of IGCP 521 (Turkey)

9.00-9.15 Welcome
Dr. Aristides DIAPOULIS, Vice-President of the Hellenic Centre for Marine Research
Dr. Andreas SIOULAS, Director of the Hydrobiological Station of Rhodes

9.15-9.30 To the memory of Prof. P.M. Dolukhanov
Zaytseva, G.I. (Russia)

9.30-9.45 IGCP 521-INQUA 501 report (2005-2009).
Yanko-Hombach, V., Yilmaz, Y., and Dolukhanov P. (Canada, Ukraine, Turkey, UK)

PANEL 1: PALEO GEOGRAPHIC AND PALEOCEANOGRAPHIC RECONSTRUCTIONS

Moderators: Nikolay PANIN (Romania) and Andrei CHEPALYGA (Russian Federation)

Session 1: Geodynamics and Active Tectonics

Moderators: Yücel YILMAZ (Turkey) and Evgeny LARCHENKOV (Ukraine)

Chairpersons: Vasilis LYKOUSIS (Greece)
Hayrettin KORAL (Turkey)

9.45-10.15 Submerged cultural remains in long-term uplifting regions: examples
Key-note from the Hellenic Arc

Sakellariou, D. (Greece)

10.15-10.30 Late Holocene seismic coastal uplift and subsidence on the island of
Rhodes, SE Aegean Arc, Greece: evidence from ancient shipsheds

Stiros, S., Blackman, D., Pirazzoli, P. (Greece, France)

10.30-10.45 Oblique extension in southwestern Turkey and the implications for
ancient settlement sites

Koral, H. (Turkey)

10.45-11.00 **Coffee Break**

11.00-11.30 A new look at the western Anatolia-Aegean morphotectonics

Key-note *Yilmaz, Y. (Turkey)*

11.30-11.45 The geodynamic dimension of the first regional early-warning system
for marine geohazards of risk to be set-up and implemented on the
western Black Sea coast

Dimitriu, R.G., Oaie, G., Ruzsa, G. (Romania)

11.45-12.00 Landslide processes in Pshada canyon (northeastern Black Sea)

Khvorosch, A.B. (Russian Federation)

Session 2: Sea Level Changes and Paleoenvironmental Reconstructions in the Black Sea

Moderators: Petra MUDIE (Canada), and Andrei CHEPALYGA (Russian Federation)

Chairpersons: George OAIE (Romania)
Gilles LERICOLAIS (France)

12.00-12.15 River-sea systems and related sedimentary systems in the Black Sea
region after the Last Glacial Maximum

Panin, N. (Romania)

- 12.15-12.30 Deformation and dynamics of the Danube Delta using InSAR technology
Oaie, G., Seghedi, A., Poncos, V., Teleagă, D., Șerban, F. (Romania)
- 12.30-12.45 Upper Quaternary evolution of Mamaia Lake area (Romanian Black Sea shore)
Caraivan, G., Fulga, C., Opreanu, P. (Romania)
- 12.45-13.00 Holocene paleoenvironmental changes in the Romanian Black Sea inner shelf
Melinte-Dobrinescu, M.C., Oaie, G. (Romania)
- 13.00-14.15 **Lunch. Business Meetings of Working and Regional Groups.**
- Chairpersons: Antoneta SEGHEDI (Romania)
Vasiliy DIKAREV (Russian Federation)
- 14.15-14.30 Black Sea Outlets
Trutnau, H.-H. (Germany)
- 14.30-14.45 Holocene submerged Black Sea landscapes: A scientific question about the timing of the last reconnection
Lericolais, G. (France)
- 14.45-15.00 Stepwise transition from the Neoeuxinian Lake to the Black Sea in the Early Holocene: correlation of the multi-proxy records from the northeastern and southwestern Black Sea shelf
Ivanova, E., Marret, F., Murdmaa, I., Karpuk, M., Mudie, P., Aksu, A., Cronin, T., Hiscott, R.N., Platonova, E., Buynevich I. (Russian Federation, U.K., Canada, Australia, U.S.A.)
- 15.00-15.15 Late Pleistocene and Holocene paleoenvironments on the northeastern Black Sea shelf
Murdmaa, I.O., Ivanova, E.V., Levchenko, O.V., Putans, V.A., Sloistov, S.M., Alekhina, G.N., Platonova, E.V., Evsyukov, Yu.D. (Russian Federation, Australia)
- 15.15-15.30 Paleogeography of the Northwestern Black Sea shelf during last 12 ky
Larchenkov, E., Kadurin, S. (Ukraine)
- 15.30-15.45 Was the Black Sea catastrophically flooded in the Early Holocene – a new perspective from the large-scale geological survey of the northwestern shelf
Yanko-Hombach, V. Kadurin, S. Larchenkov, E., Likhodedova, O., Kakaranza, S. (Ukraine, Canada)
- 15.45-16.00 **Coffee Break**
- Chairpersons: Ahmet Evren ERGINAL (Turkey)
Mihaela MELINTE-DOBRINESCU (Romania)

- 16.00-16.15 Late Pleistocene carbonate dunes and rhizoliths on Bozcaada Island (Northwestern Turkey) and the Sile area (Western Black Sea): paleoenvironmental implications for MIS 2 and MIS 3 lowstands
Erginal, A.E., Kiyak, N.G., Ertek, T.A. (Turkey)
- 16.15-16.30 Paleogeographic research on the Taman Peninsula (southwestern Russia): an example of rapid Holocene shoreline changes and delta growth
Kelterbaum, D., Brückner, H., Gerhard, S., Porotov, A., Schlotzhauer, U., Zhuravlev, D. (Germany, Russian Federation)
- 16.30-16.45 Sea-level change in the Black Sea and Sea of Azov during the late Holocene; the problem of paleogeographical and archaeological data correlation
Dikarev, V., Danovskij, A. (Russian Federation)
- 16.45-17.00 Paleoclimatic data from the western Black Sea region and solar luminosity after the Last Glacial period to the Early Holocene
Slavova, K.R. (Bulgaria)
- 17.00-17.15 Assessment of probable Holocene fluctuations in the level of the Black Sea
Esin, N.V., Esin, N. (Russian Federation)
- 17.15-18.00 **Questions and Discussion**

29 SEPTEMBER

Session 3: Sea Level Changes and Paleoenvironmental Reconstructions in the Mediterranean and Elsewhere

- Chairpersons: Helmut BRÜCKNER (Germany)
Stathis STIROS (Greece)
- 9.00-9.15 Submerged Aegean coastlines: assessing archaeological evidence as relative sea-level change indicators
Baika, K. (Greece)
- 9.15-9.30 Numerical modeling and observational studies of coastal tidal channel flow
Azadbakht, Z., Bidokhti, A.A., and Namin, M.M. (Iran)
- 9.30-9.45 Paleoclimatologic significance of sea-level changes from the 1st to the 13th centuries: evidence from coastal Israel
Mart, Y. (Israel)
- 9.45-10.00 Investigations on shoreline displacement and geoenvironmental changes in Ionian coastal plains of Greece (SW Peloponnese) over the Last Interglacial-Glacial Cycle, by means of Optically Stimulated Luminescence geochronology
Athanassas, C., Fountoulis, I. (Greece)

- 10.00-10.15 Beachrock formation in a freshwater lake environment, Lake Iznik coast, Turkey: a preliminary assessment of microanalytical data and optical luminescence ages
Erginal, A.E., Kiyak, N.G., Yiğitbaş, E., Bozcu, M., Curebal, I., Öztürk, M.Z., Sungur, A., Avcıoğlu, M. (Turkey)
- 10.15-10.30 Late Holocene beachrock on the Saros Gulf, Gallipoli Peninsula, NW Turkey
Ertek, T.A., Kiyak, N.G., Erginal, A.E. (Turkey)
- 10.30-10.45 Geochemistry of Holocene core sediments from off the coast of the Büyük Menderes River Delta, western Turkey
Ergin, M. (Turkey)
- 10.45-11.00 **Coffee Break**

Session 4: Recent Ecosystems

Moderators: Valentina YANKO-HOMBACH (Ukraine, Canada) and Evgeniy SCHORNIKOV (Russian Federation)

- Chairpersons: Tatiana SAPELKO (Russian Federation)
Aleksy PETROV (Ukraine)
- 11.00-11.15 Benthic fauna depending on oxygen depletion (inner and outer parts of Sevastopol Bay)
Sergeeva, N.G., Mazlumyan, S.A., Konovalov, S.K. (Ukraine)
- 11.15-11.30 Evaluating the inter-annual variability of sediment-associated pollutants and its impact on the benthos of Sevastopol Bay (Black Sea)
Petrov, A.N., Revkov, N.K., Terletskeya, A.V., Milyukin, M.V. (Ukraine)
- 11.30-11.45 Events of hypoxia and anoxia in Crimean coastal waters
Orekhova, N., Sergeeva, N.G., Gulin, M.B., Konovalov, S.K. (Ukraine)
- 11.45-12.00 Condition of the Kerch Strait ecosystem two years after the disaster of winter 2007: Preliminary results
Kovalyshyna, S., Yanko-Hombach, V., Komorin, V., Matygin, A., Ukrainsky, V., Den'ga, Yu., and Likhodedova, O. (Ukraine, Canada)
- 12.00-12.15 The conceptual model for assessing the value of the near-shore ecosystem
Mazlumyan, S.A. (Ukraine)
- 12.15-12.45 Benthic diatom assemblages of the ancient Black Sea basin: Current state of exploration under environmental impairments
Nevrova, E.L., Petrov, A.N. (Ukraine)
- 12.45-14.15 **Lunch. Business Meetings of Working and Regional Groups.**

Session 5: Palynology, Paleontology, and Biostratigraphy

Moderators: Natalia GERASIMENKO (Ukraine) and Petra MUDIE (Canada)

- Chairpersons: Maria TRIANTAFYLLOU (Greece)
Natalia GERASIMENKO (Ukraine)
- 14.15-14.30 New data on environmental changes in the Crimean Mountains during the last 30,000 years (pollen from the Emine-Bair-Khosar cave)
Gerasimenko, N., Gladyshevskaya, M., Korzun, Yu. (Ukraine)
- 14.30-14.45 Holocene Palynology of the Northern Black Sea Coast
Sapelko, T. (Russian Federation)
- 14.45-15.00 The Holocene paleoenvironmental archive recorded in the Rogalik section (Southeastern Ukraine)
Gerasimenko, N. (Ukraine)
- 15.00-15.15 Vegetation and climate change in Northern Anatolia during the last interglacial and Holocene based on pollen and dinoflagellate cyst records from the southeastern Black Sea
Shumilovskikh, L., Behling, H., Arz, H. (Germany)
- 15.15-15.30 Biostratigraphy and paleoenvironment of the Upper Cretaceous flysch sediments of the Greater Caucasus fold system
Gavtadze, T., Mikadze, Kh. (Georgia)
- 15.30-15.45 Macro- and microfaunas of the northwestern Black Sea (Romanian shelf)
Briceag, A., Oaie, G., Stoica, M. (Romania)
- 15.45-16.00 **Coffee Break**

Session 6: Sea Level Changes and Paleoenvironmental Reconstructions in the Caspian Sea

Moderators: Andrei CHEPALYGA (Russian Federation) and Tamara YANINA (Russian Federation)

- Chairpersons: Andrei CHEPALYGA (Russian Federation)
Homayoun KHOSHRAVAN (Iran)
- 16.00-16.15 Simulation of the Caspian sea level within the Paleoclimate Modeling Intercomparison Project (adjusted for Scandinavian glacier melting)
Toropov, P.A., Morozova, P.A. (Russian Federation)
- 16.15-16.30 Caspian and Black Sea level fluctuations as a base for high-resolution stratigraphy of the Late Quaternary
Chepalyga, A. (Russian Federation)
- 16.30-16.45 Climate impact on Caspian rapid sea level seasonal changing
Falakro, M., Khoshnavan, H., Ghanghermeh, A. (Iran)

16.45-17.00	The impact of Caspian Sea rapid sea-level change on shoreline deformation <i>Hashemian, M.S., Khoshnavan, H. (Iran)</i>
17.00-17.15	Late Pleistocene climate change evidence in a coastal sand dune and river meander crossing in Gorgan plain, southeastern Caspian Sea, Iran <i>Ownegh, M. (Iran)</i>
17.15-17.30	Caspian rapid sea level changing and Miankaleh spit evolution <i>Khoshnavan, H., Hashemian, M., Rouhanizadeh, S. (Iran)</i>
17.30-17.45	Holocene paleoenvironmental evolution of the southern Caspian Sea (northern Iran) from lagoonal subsurface data and human settlements <i>Rahimi, E., Mohammadi, A., Lak, R. (Iran)</i>
17.45-18.00	Questions and Discussion

30 September

PANEL 2: DEGASSING AND NON-TRADITIONAL RESOURCES OF THE BLACK SEA

Moderators: Evgeny SHNYUKOV (Ukraine) and Valentina YANKO-HOMBACH (Ukraine, Canada)

Session 7: Mud Volcanoes and Non-Traditional Resources of the Black Sea

Moderators: Evgeny SHNYUKOV (Ukraine) and Nikolay MASLOV (Ukraine)

Chairpersons:	Nikolay PANIN (Romania) Joseph MART (Israel)
9.00-9.30 Key-note	Quaternary mud volcanism of the Azov-Black Sea basin, on shore and off shore <i>Shnyukov, E.F., Maslakov, M., Yanko-Hombach, V. (Ukraine, Canada)</i>
9.30-9.45	Observations of terracing and strandlines in Azerbaijan in association with mud volcanoes as indicators of past fresh and sea water inundations <i>Gallagher, R. (UK)</i>
9.45-10.00	Geology and non-traditional resources of the Black Sea (Presentation of a new book) <i>Dimitrov, D. (Bulgaria)</i>

PANEL 3: ARCHAEOLOGY, HISTORY, AND ETHNOLOGY

Moderators: Olena SMYNTYNA (Ukraine) and Pavel Dolukhanov (U.K.)

Session 8: Archaeology, History, and Ethnology

Moderator: Olena SMYNTYNA (Ukraine)

- Chairpersons: Olena SMYNTYNA (Ukraine)
Kalliopi BAIKA (Greece)
- 10.00-10.30 The coastal factor in human prehistory
Key-note *Bailey, G.N. (U.K.)*
- 10.30-10.45 Mesolithization of the Lower Dniester–Pivdennyi Bug region: an environmental interpretation
Smyntyna, O.V. (Ukraine)
- 10.45-11.00 **Coffee Break**
- 11.00-11.15 Archaeobotanical Spectras of the Bosporos Study Results and Prospects
Pashkevich, G. (Ukraine)
- 11.15-11.30 Archaeological data from Bulgaria relating to ancient sea level in the Black Sea
Peev, P. (Bulgaria)
- 11.30-11.45 A geophysical comment on the Herodotus narration concerning the Neuri-people migration
Alekseeva, L.M. (Russian Federation)
- 11.45-12.00 New data on the archaeological settlement and paleogeography of the Lower Danube area (Romania)
Carozza, L., Carozza, J.-M., Micu, C., Ailincai, S., Dimitriu, R., Haita, C., Florea, M., Burens, A., Mihail, F., Balasescu, A., Radu, V. (France, Romania)
- 12.00-12.15 Initiation of human dispersal by rising water levels in the Black Sea during the Holocene
Shopov, Y.Y., Yalamov, T., Dimitrov P., Dimitrov, D.P., Shkodrov, B. (Bulgaria)
- 12.15-13.00 **Questions and Discussion**
- 13.00-14.30 **Lunch. Business Meetings of Working and Regional Groups.**

14.30-17.30

POSTER SESSION

Geodynamics and Active Tectonics

Increasing seismic activity and the child health of the population in some non-industrial cities of Turkmenistan

Alekseev V.A., Alekseeva, O.V., Prokopenko, L.I. (Russian Federation)

The influence of seismodeformations on habitat changes in the mountains of Dagestan

Daniyalov, M.G., Ismailov, A.Sh., Levkovich, R.A. (Russian Federation)

Parameter dynamics of underground water-gas systems connected with shallow-focus earthquake epicenters of excited nature

Saidov, O.A., Suleymanov, A.I., Ismailov, A.Sh. (Russian Federation)

Deformations of flexure and active seismicity of the Chirkey hydroelectric power station reservoir area

Saidov, O.A., Suleymanov, A.I., Ismailov, A.Sh. (Russian Federation)

Magnetometric measurements in the region of the Sulak hydroelectric power station cascade

Suleymanov, A.I., Saidov, O.A., Ismailov, A.Sh. (Russian Federation)

Sea Level Changes and Paleoenvironmental Reconstructions

Reaction of the coastal zone to the sea-level fluctuations

Badyukova, E.N. (Russian Federation)

Millennial-scale depositional cycles in the Holocene coastal sediments of the northeastern Black Sea (Taman Peninsula)

Kaplin, K., Porotov, A. (Russian Federation)

History of Imeretinsky Lagoon during the Holocene stage of formation of the Mzymta and Psou River interfluve

Balabanov, I.P., Arslanov, Kh.A., Manucharjants, E.M. (Russian Federation)

Radiocarbon and amino acid racemization dating of the post-glacial Black Sea: rapid transgression and gradual salinization of the paleo-lake by Mediterranean-sourced water

Nicholas, W.A., Chivas, A.R., Murray-Wallace, C.V., Fink, D. (Australia)

The morphostructural analysis of the Northern Black Sea shelf

Pedan, G.S., Konikov, E.G. (Ukraine)

Simulation of the Caspian Sea level within the Paleoclimate Modeling Intercomparison Project (adjusted for Scandinavian glacier melting)

Toropov P.A., Morozova P.A. (Russian Federation)

Evidence of paleoenvironmental changes in the Eastern Mediterranean Sea from the Late Glacial through the Holocene, based on organic geochemical and palynological proxies

Katsouras, G., Gogou, A., Bouloubassi, I., Emeis, K.-C., Kouli, K., Ioakim, Chr., Triantaphyllou, M., Lykousis V. (Greece, France, Germany)

Mud Volcanoes and Non-Traditional Resources of The Black Sea

Feeders and landslides on mud volcanoes using georadar and hydrogen flow

Alekseev, V.A., Alekseeva, N.G., Daniyalov, M.G., Kopeikin, V.V., Morozov, P.A. (Russian Federation)

Recent Ecosystems

Ostracoda (Crustacea) of Caspian genesis in the Azov-Black Sea basin

Schornikov, E.I. (Russian Federation)

The effect of a chemical weapons dumpsite on the trace element composition of bottom sediments in the northeastern Kerch Strait

Smyrnova, L.L., Antonova, L.S. (Ukraine)

Climatic changes: hydrological and biological characteristics of the North-Western Black Sea region

Matygin A., Popov Y., Kovalyshyna S., Grandova M. (Ukraine)

Evaluating of structure and diversity of benthic diatoms assemblage in the anthropogenically-impaired bays of southwestern Crimea (Black Sea)

Nevrova, E.L., Petrov, A.N., Terletsкая, A.V., Milyukin, M.V. (Ukraine)

Palynology, Paleontology, and Biostratigraphy

Review of the diversity and distribution of recent ostracod fauna in the northwestern Black Sea

Opreanu, P. (Romania)

New finds of planktonic foraminifera in Karaganian sediments of Western Ciscaucasia (Eastern Paratethys)

Pinchuk, T.N. (Russian Federation)

Factors controlling the distribution of small-sized planktonic foraminifera in the Late Quaternary landlocked basin of North Evoikos Gulf, central Aegean Sea

Antonarakou, A., Drinia, H., Anastasakis, G. (Greece)

Benthic microfaunal assemblages in temperate coral-bearing deposits from the Pleistocene of Kos Island (Aegean Sea)

Drinia, H., Tsourou, Th. (Greece)

Benthic foraminifera of coastal sequences in the Aegean Sea: paleoenvironmental implications during the last 6000 years

Koukousioura, O., Triantaphyllou, M.V., Dimiza, M.D., Pavlopoulos, K., Syrides, G., Vouvalides, K. (Greece)

Archaeology, History, and Ethnology

Ptolemaic land use at the ancient settlement of Heractum during the Phanagorian regression of the Black Sea

Chepalyga, A., Kishliariuk, V. (Russian Federation, Moldova)

The role of the liman-baymouth complexes in human settlement in the Eneolithic to Bronze Age

Konikov, E., Ivanova, S., Vinogradova, E., Kiosak, D., Govedarica, B. (Ukraine, Germany)

Sergei Bibikov and the Archaeology of Western Ukraine

Matskevych, L.G., Dolukhanov, P., Panakhyd, H. (Ukraine, U.K.)

A magnetic survey at Argamum necropolis

Sorin, A. (Romania)

17.30-18.00

Closing Ceremony

CONFERENCE DINNER

20.00

Conference Dinner, Kallithea Spa

1-4 OCTOBER 2010: FIELD TRIPS

1, 3 OCTOBER

8.00-18.00

Field Trip 1. Sea-level changes versus vertical tectonics on Rhodes Island. We will visit sites of uplifted Holocene coastlines, submerged antiquities, uplifted Pleistocene marine terraces, active faults, coastal prograding sequences, sedimentary covering of paleorelief, uplifted beach rocks with human and animal footprints, and fossiliferous formations.

2 OCTOBER

8.00-18.00

Field Trip 2. The volcano of Nisyros Island. We will sail from Rhodes to Nisyros Island, and we will drive to the caldera of the active volcano, see volcanic deposits, understand the structure of the volcano, and walk on the bottom of the active craters next to the venting fumaroles.

4 OCTOBER

8.00-18.00

Field Trip 3. Archaeological sites on Rhodes. We will visit some of the most important archaeological sites on Rhodes Island with a professional guide.

5 OCTOBER

DEPARTURE TO RESPECTIVE COUNTRIES.



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IGCP 521 - INQUA 501 SIXTH PLENARY MEETING AND FIELD TRIP

**IGCP 521 "BLACK SEA-MEDITERRANEAN CORRIDOR DURING THE LAST
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