IGCP 610
From the Caspian to Mediterranean:
Environmental Change and Human Response during the Quaternary

PROGRAMME

The Fourth Plenary Meeting and Field Trip
Tbilisi, Georgia
2-9 October 2016
## Programme of IGCP 610 Fourth Plenary Meeting and Field Trip, Tbilisi, Georgia, 2-9 October 2016

<table>
<thead>
<tr>
<th><strong>2 October 2016</strong></th>
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<tbody>
<tr>
<td>17.00 – 19.00</td>
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<tr>
<td>Registration</td>
</tr>
<tr>
<td>Georgian National Academy of Sciences.</td>
</tr>
<tr>
<td>Address: 52 Rustaveli Ave, Tbilisi, Georgia 001078.</td>
</tr>
<tr>
<td>Telephone: +99532996445; +99532998891</td>
</tr>
<tr>
<td>Fax: +99532990052</td>
</tr>
<tr>
<td>E-mail: <a href="mailto:eteri.igcp610@gmail.com">eteri.igcp610@gmail.com</a>; <a href="mailto:eterikilas@mail.ru">eterikilas@mail.ru</a></td>
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<tr>
<td>19.00 – 21.00</td>
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<tr>
<td><strong>Ice-Breaking Party</strong></td>
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<tr>
<th><strong>3 October 2016</strong></th>
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<tr>
<td>9.00 – 18.10</td>
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<tr>
<td><strong>Registration</strong></td>
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<tr>
<td>9.00 – 18.00</td>
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<tr>
<td><strong>Technical Sessions</strong></td>
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<tr>
<td>Georgian National Academy of Sciences.</td>
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<tr>
<td>Address: 52 Rustaveli Ave, Tbilisi, Georgia 001078.</td>
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<th><strong>4 October 2016</strong></th>
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<tr>
<td>9.00 – 18.00</td>
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<tr>
<td><strong>Technical Sessions.</strong></td>
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<tr>
<td>Georgian National Academy of Sciences.</td>
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<tr>
<td>Address: 52 Rustaveli Ave, Tbilisi, Georgia 001078.</td>
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<tr>
<td>Sightseeing Tour 2: Historic Motley Sulfur Bath in Tbilisi.</td>
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<thead>
<tr>
<th><strong>5 October 2016</strong></th>
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<tbody>
<tr>
<td>9.00 – 21.00</td>
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<tr>
<td><strong>Field Trip 1:</strong></td>
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<tr>
<td>Overnight accommodations in Tbilisi.</td>
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<tr>
<th><strong>6 October 2016</strong></th>
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<tbody>
<tr>
<td>9.00 – 18.00</td>
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<tr>
<td><strong>Field Trip 2.</strong></td>
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<tr>
<td>Accommodation in the hotel «Kachreti-Ambasador».</td>
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7 October 2016

9.00 – 18.00
Depart from the hotel «Kachreti-Ambasador»
Field Trip 3.
Hotel “Kachreti-Ambasador” – Shiraki plain (Kvabebi– Akchagylian-Absheronian section) – Khornabudji (Castle of Queen Tamara) - hotel «Kachreti-Ambasador».
Conference Dinner.
Return to the same hotel
Accommodation in the hotel «Kachreti-Ambasador».

8 October 2016

9.00 – 18.00
Depart from the hotel «Kachreti-Ambasador»
Field Trip 4.
Accommodation in Tbilisi.
Sightseeing Tour 1: Old Tbilisi.
Return to Tbilisi the same hotel as you booked.

9 October 2016

Departure from Tbilisi to respective countries.

3 October 2016

TECHNICAL SESSIONS
Georgian National Academy of Sciences
52 Rustaveli Ave, Tbilisi, Georgia 001078

Chairpersons: Valentina YANKO-HOMBACH (Ukraine, Canada) and Irakli GAMKRELIDZE (Georgia)
9.00 – 9.20 Welcome
Kvesitadze G., Academic, President of Georgian National Academy of Science (Georgia)
Gamkrelidze, I., Academic-Secretary of Georgian National Academy of Science, President of the Conference (Georgia)
9.20 – 9.30 Fourth year progress report of IGCP 610
Yanko-Hombach, V. Co-Leader of IGCP 610 (Ukraine, Canada)
**PANEL 1: GENERAL QUESTIONS OF THE CORRIDOR**
Moderator: Nikolay ESIN (Russia) and Alexander KISLOV (Russia)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 9.30 – 10.00 | Key-note  
Geological structure of Georgia and geodynamic evolution of the Caucasus  
Gamkrelidze, I. (Georgia) |
| 10.00 – 10.20 | Synthesis of the IGCP 610 results: some controversies and paradoxes  
Yanko-Hombach, V., Kislov, A. (Canada, Ukraine, Russia) |
| 10.20 – 10.40 | General Tectonic/Geologic Framework of the Caspian Sea and its water connection with the Black Sea and Mediterranean  
Ergün M. (Turkey) |
| 10.40 – 11.00 | The evolution of the Akchagylian Sea area and coastline based upon mathematical modeling  
Esin, N., Esin, N., Yanko-Hombach, V., Frolov, A. (Russia, Canada, Ukraine) |
| 11.00 – 11.20 | Coffee Break |

**PANEL 2: RECENT ECOSYSTEMS AND PROCESSES**
Moderators: Nelly SERGEEVA (Russia) and Valentina YANKO-HOMBACH (Ukraine, Canada)

<table>
<thead>
<tr>
<th>Time</th>
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| 11.20 – 11.40 | Research into glacier variation dynamics in East Georgia under the impact of modern climate change  
Kordzakhia, G., Shengelia, L., Tvari, G., Dzadzamia, M. (Georgia) |
| 11.40 – 12.00 | Porosity and deterioration of stone building material in Istanbul  
Kucukkaya, A. (Turkey) |
| 12.00 – 12.20 | Collections of the Central Soil Museum as a foundation for soil-ecological monitoring of the Caspian-Black Sea-Mediterranean Corridor territory  
Sukhacheva, E., Rusakova, E. (Russia) |
| 12.20 – 12.40 | Foraminifera as indicators of environmental stress in marine ecosystems: New evidence from the Ukrainian Black Sea shelf  
Yanko-Hombach, V., Kovalyshina, S., Kondariuk, T. (Ukraine, Canada) |
| 12.40-13.00 | Retrospective data about underwater landscapes and the meiofbenthos in the North-Eastern part of the Black Sea  
Sergeeva, N. (Russia) |
| 13.00 – 14.00 | Lunch |

**PANEL 3: QUATERNARY AND UPPER NEOGENE PALEONTOLOGY, PALYNOLOGY, AND STRATIGRAPHY OF THE CORRIDORS**
Moderators: Nikolay PANIN (Romania) and Petra MUDIE (Canada)

<table>
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<tr>
<th>Time</th>
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</table>
| 14.00 – 14.30 | Key-note  
Western Georgia as a refuge for Tertiary elements of Eurasian floras (using the example of the family Hamamelidaceae)  
Shatilova, I., Rukhadze L., Kokolashvili, I. (Georgia) |
14.30 – 14.50 The palynoclimatostratigraphy of the Pleistocene deposits in Trlica Cave and environmental reconstructions (the northern Mediterranean, Montenegro)

Bolikhovskaya, N., Shunkov, M. (Russia)

14.50 – 15.10 Pollen-based reconstruction of the Plio-Pleistocene vegetation and climate change in the North Caucasus

Naidina, O. (Russia)

15.10-15.30 The last interglacial vegetation patterns on the northern margins of the Black Sea

Gerasimenko, N. (Ukraine)

15.30 – 15.40 Coffee-break

15.40 – 16.00 Middle Miocene marine mollusks in northernmost Anatolia: Biostratigraphic responses to changing paleogeography

Byükmeriç, Y., Ilgar, A. (Turkey)

16.00 – 16.20 The Karangatian epoch (MIS 5e) in the Black Sea basin

Yanko-Hombach, V., Motnenko, I. (Canada, Ukraine)

16.20 – 16.40 Malakofauna of the Kerch Strait during the Late Pleistocene – Holocene: paleogeographical analysis

Semikolenykh, D., Ignatov, E., Yanina, T., Arslanov, Kh. (Russia)

16.40 – 17.00 Quaternary molluscan faunas of the Sinop peninsula (N. Turkey) elucidate biogeographic connections

Büyükmeriç Y., Yildirim, C. (Turkey)

17.00 – 17.20 New results on the stratigraphy of Quaternary sediments of Manych depression (Russia) elucidate a deep Atelian regression

Badyukova, E. (Russia)

17.20 – 17.40 Analysis of South Caspian deep sedimentation from marine cores

Lahijani, H, Abbasian, H, Naderi, A. (Iran)

17.40 – 18.00 Questions, discussion

4 October 2016

PANEL 4: PALEOENVIRONMENTAL AND PALEOGEOGRAPHIC RECONSTRUCTIONS OF THE CORRIDORS
Moderators: Tamara YANINA (Russia) and Elmira ALIEVA (Azerbaijan)

Chairpersons: Alexander MAKEEV (Russia) and Hamid LAHIJANI (Iran)

9.00 – 9.20 Pedogenetic response to climatic fluctuations within the last glacial-interglacial cycle in the lower Volga basin

Makeev, A., Rusakov, A., Bagrova, S., Kurbanov, R., Yanina T. (Russia)

9.20 – 9.40 Correlation of the paleogeographic events of the Caspian Sea and Russian Plain in the late Pleistocene: New data

Yanova, T., Sorokin, V., Svitoch, A., Kurbanov, R., Murray, A., Sychev, N., Tkach, N. (Russia, Denmark)

9.40-10.00 History of Caspian Sea level oscillations in the late Pleistocene (if there was a Great Khvalynian transgression and a deep Atelian regression?)

Badyukova, E. (Russia)

10.00-10.20 Pioneer dendroclimatological research in western and southwestern Turkmenistan using Juniperus turcomanica B. Fedtsch

Berdnikova, A., Matskovskiy, V., Kurbanov, R. (Russia)

10.20 – 10.40 Clay mineral provenance of lower Khvalynian deposits in the Middle and Lower Volga River valley
Makshaev, R., Svitoch, A., Khomchenko, D., Oshchepkov, G.
(Russia)

10.40-11.00 New results on structure of the Srednaya Akhtuba reference section
Kurbanov, R.N., Yanina, T.A., Murray, A.S., Makeev, A.O., Rusakov, A.V.,
Streletskaia, I.D., Tkach, N.T, Sychev, N.V., Bagrova, S.M. (Russia)

11.00-11.10 Coffee-break

PANEL 5: ANTHROPOLOGY, ARCHAEOLOGY, AND HISTORY
Moderators: Sergey VASILIEV (Russia) and Olena SMYNTYNA (Ukraine)

Chairpersons: Mustafa ERGÜN (Turkey) and Rejep KURBANOV (Russia)

11.10 – 11.40 Key-note
Anthropology of the Caucasus of the Paleolithic Age.
Vasilyev, S. (Russia)

11.40 – 12.00 Re-assessing East Mediterranean sea-level trends: 3000 years of archaeological
indicators in Greece and Israel
Dean, S., Sivan, D., Evelpidou, N., Kalliopi, B., Cahill, N., Bechor, B., Spada, G.
(Israel, Greece, Ireland)

12.00-12.20 The origin of artifacts of bone and shell from the Khvalynsk Eneolithic
cemeteries (Northern Caspian region)
Kirillova, I., Yanina, T., Levchenko, V., Ippolitov, A.,
Shishliina, N. (Russia)

12.20 – 12.40 Soils of Scythian settlements as paleoenvironmental archives in the area of Late
Holocene migration pathways through the East European steppe
Rusakov, A., Makeev, A., Puzanova, T., Khokhlova, O., Merzliakova, A.,
Kurbanova, F. (Russia)

12.40 – 13.00 Paleoanthropological research into the early medieval Coptic cemetery of Wadi
Naqlun in the Fayoum Oasis (Egypt)
Vasilyev, S., Borutskaya, S. (Russia)

13.00 – 14.00 Lunch

POSTER SESSION (5 minutes for presentation of poster will be given to each presenter)
14.00-16.00

Chairpersons: Nino POPKHADZE (Georgia) and Yesim BYÜKMERIÇ (Turkey)

1 Preliminary magnetometric investigation at the Callatis archaeological site
Anghel, S. (Romania)

2 Methods of obtaining data on the characteristics of superficial and subsurface
structures of the Earth by remote sensing in the short-wave range of radio
waves
Belov, S., Belova, I. (Russia)

3 Preliminary results of palynological analysis of the Atelian deposits from a
borehole core in the northern Caspian Sea
Bolikhovskaya, N., Mamontov, D., Yanina, T., Sorokin, V. (Russia)

4 The value of the hydrological and landscape characteristics of the region for the
life of the primitive population (an example of late-Mesolithic and Neolithic
sites of Dnieper Rapids Region)
Demchenko, O. (Ukraine)

5 The Sea of Azov under anticipated sea-level rise
Dikarev, V. (Russia)
6 Climate change and paleoenvironmental events in the Bulgarian Black Sea zone during the Late Pleistocene

Hristova, R. (Bulgaria)

7 Late Neogene sediments, petrography, facies and depositional environments, South Kakheti, Georgia

Gagnidze, N. (Georgia)

8 The structure and geochemistry of the Kila-Kupra mud volcano (Georgia)

Glonti, (Bacho) V., Koiava, K., Kotulová, J., Kvaliashvili, L. (Georgia, Slovak Republic)

9 Diatom analysis of Maikopian deposits of the west border of the South Caspian depression (along the section of Shikhzagirli Shamakhi-Gobustanzone) and some paleoecological conclusions

Kerimova, N. (Azerbaijan)

10 Morphological analysis of flat-bottomed depressions in the eastern Azov Sea region

Konstantinov, E.A., Kurbanov, R.N., Zaharov, A.L. (Russia)

11 Palynology of Sarmatian clay at Eltigen, Kerch Peninsula: first report

Mudie P. (Canada)

12 Palynology of surface samples, Ukrainian shelf, NW Black Sea: first report

Mudryk, I., Mudie, P., Zolotarev, G. (Ukraine, Canada)

13 Quaternary Continental flood basalts of the Javakheti Volcanic Plateau, Lesser Caucasus - Reason of Mass Extinction?

Okrostsvardize, A. (Georgia)

14 Unique Cave City Vardzia, Georgia – Geology, Destruction Processes and Protection measures

Okrostsvardze, A., Elashvili, M., Kirkitadze, G. (Georgia)

15 Pliocene-Quaternary Samtskhe-Javakheti Volcanic Highland, Lesser Caucasus – as a result of mantle plume activity

Okrostsvardze, A., Popkhadze, N., Bluashvili, D., Chang, Y., Skhirtladze, I. (Georgia, Taiwan)

16 Geometry and kinematic evolution of a thrust-top basin: an example from the Western part of the Kura foreland fold and thrust belt, Georgia

Razmadze, A., Alania, V. (Georgia)

17 Vegetational and climatic changes recorded in pollen assemblages of the Late Holocene deposits from Lake Chokrak (Crimea)

Rohozin, Ye. (Ukraine)

18 Coastal laws in Turkey

Sazak S. (Turkey)

19 Paleoclimatic events of the late Pleistocene and their reflection in the structural and material composition of loess-soil complexes (southern part of the Eastern European Plain)

Sedayeva, K.M., Kurbanov, R.N., Chen, S. (Russia, China)

20 Petrographic characteristics of Productive Series of Absheron peninsula on the basis of SEM-analysis and optical microscopy

Shiraliyeva, S., Amrakhov, R. (Azerbaijan)

21 North-Western Black Sea Region at LGM: searching for the sea impact on human adaptation

Smyntyna, O.V. (Ukraine)

22 Deep-sea Holocene sediments of the Mediterranean Sea, the Black Sea and the Caspian Sea

Sorokin, V., Yanina, T. (Russia)
23 Impact of regional geophysical factors on human blood counts
   Taumanova, G. (Russia)

24 First optically stimulated luminescence dating results of Lower Volga
   sediments (Srednaya Akhtuba section)
   Tkach, N., Murray, A., Kurbanov, R., Yanina, T., Svitoch A., Sychev, N.
   (Russia)

25 Malakofauna of the Volga delta basins and its paleogeographical importance
   Yanina, T., Svitoch, A., Khomchenko, D. (Russia)

16.00 – 16.20 Coffee Break

16.20-17.50 ROUND TABLE DISCUSSION
   Co-Leaders: Valentina Yanko-Hombach (Ukraine, Canada) and Tamara
   Yanina (Russia)

17.50-18.00 CLOSING OF TECHNICAL SESSIONS
UNESCO - IUGS - IGCP
IGCP 610 “From the Caspian to Mediterranean: Environmental Change and Human Response during the Quaternary” (2013 - 2017)

2-9 October 2016
http://www.avalon-institute.org/IGCP