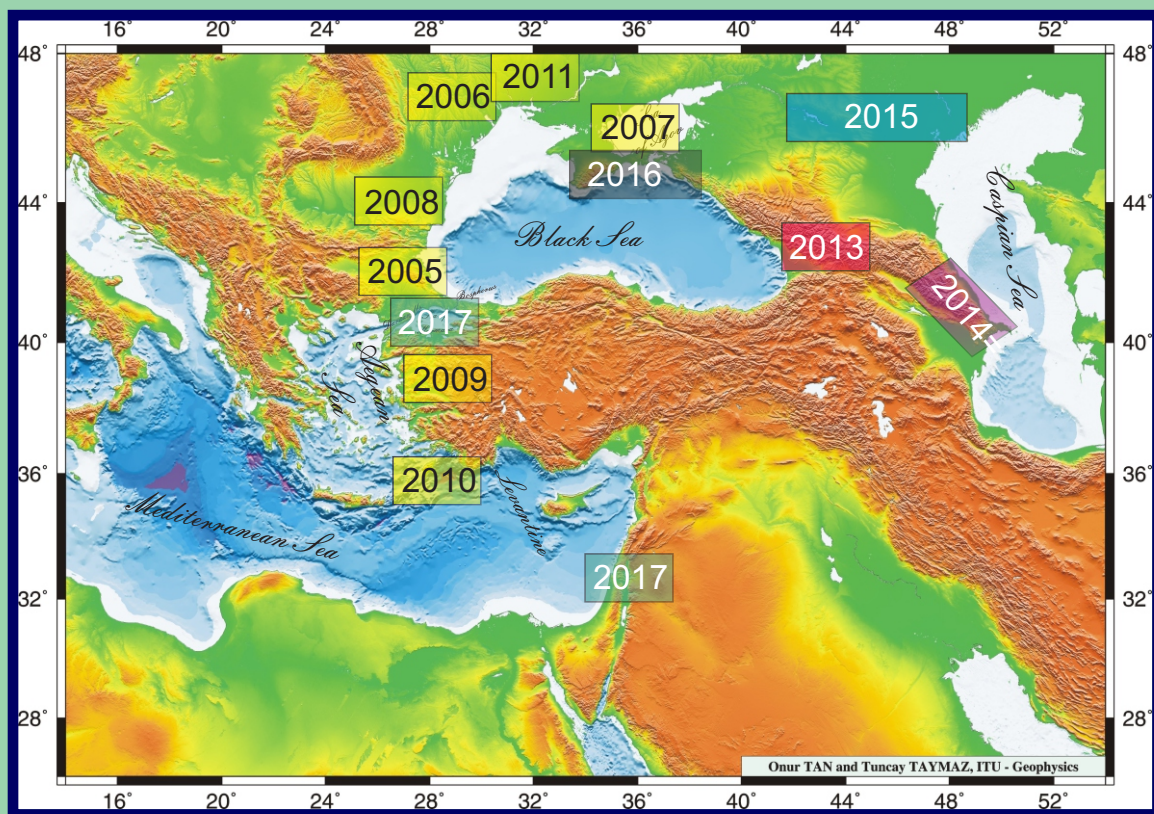




# Institute of Earth Sciences of the Georgia Ilia State University, Tbilisi, Georgia

12-19 October 2013

## INTERNATIONAL GEOSCIENCE PROGRAMME



## Programme of the First Plenary Conference

IGCP 610 “From the Caspian to Mediterranean:  
Environmental Change and Human Response during the  
Quaternary” (2013 - 2017)

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

# Programme of IGCP 610 First Plenary Conference and Field Trips, Georgia, 12-19 October 2013

## 12 October 2013

12 October  
17.00-19.00

### **Registration.**

Ilia State University, Cholokashvili Av. 3/5 , Tbilisi, Georgia  
Tel: +995322231026; +995322231026 FREE; +995322230517;  
+995322230517 FREE; Fax: +995322231026; Email: uni@iliauni.edu.ge.

18.00

### **Ice-Breaking**

Ilia State University, Cholokashvili Av. 3/5, Tbilisi, Georgia

## 13 October 2013

8.30-18.00

### **Registration.**

Ilia State University, Cholokashvili Av. 3/5 , Tbilisi, Georgia.

9.00-18.00

### **Technical Sessions.**

Ilia State University, Cholokashvili Av. 3/5, Tbilisi, Georgia

18.00

**Sightseeing Tour and Other Cultural Events** (to be announced).

## 14 October 2013

9.00-18.00

### **Technical Sessions.**

Ilia State University, Cholokashvili Av. 3/5, Tbilisi, Georgia

20.00

**Conference Dinner.** Restaurant “Mravaljamieri”, Martsckhena  
Sanapiro 19, Tbilisi, Georgia.

## 15 October 2013

### **FIELD TRIP 1**

9.00-18.00

Depart from Tbilisi and  
return to Tbilisi to the  
same hotel as you  
booked.

Dmanisi earliest hominids archaeological site.  
Mashavera River Late Pliocene basaltic volcanic flow.

16 October 2013

**FIELD TRIP 2**

8.00-18.00

Depart from Tbilisi and  
overnight in Kutaisi  
(Tskaltubo Resort,  
ARGO Hotel)

Mtskheta - one of the oldest cities in the world.  
Chiatura Paleolithic sites.  
Sataplia cave and Dinosaurs footprints.

17 October 2013

**FIELD TRIP 3**

8.00-18.00

Depart from Kutaisi and  
return to Kutaisi,  
(overnight in Tskaltubo  
Resort, ARGO Hotel)

Paliastomi Lake and Tsvermagala Chaudian Black Sea Terrace.  
Shekvetili and Batumi Black Sea coastal strip.

18 October 2013

**FIELD TRIP 4**

8.00-18.00

Depart from Kutaisi  
(Tskaltubo Resort,  
ARGO Hotel) and  
overnight in Tbilisi.

Dzirula pre-Mesozoik Massif.  
Borjomi resort and mineral water springs.  
Vardzia Cave Town and andesine volcanic flow.  
Quaternary Abul-Samsari Volcanic Ridge

19 October 2013

DEPARTURE FROM TBILISI TO RESPECTIVE COUNTRIES

## TECHNICAL SESSIONS

Institute of Earth Sciences of the Georgia Ilia State University, Cholokashvili Av. 3/5 , Tbilisi,  
Georgia

### 13 OCTOBER 2013

Chairpersons:                      Avtandil OKROSTSVERIDZE (Georgia)  
                                             Tamara YANINA (Russia)

|           |                                                                                                                                                                                    |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9.00-9.15 | Welcome.<br>Tevzadze, G., Rector of the Georgia Ilia State University<br>Javakhishvili, Z. Head of the Administration of the Ilia State University,<br>President of the Conference |
| 9.15-9.30 | Introduction of IGCP 610.<br><div style="text-align: right;"><i>Yanko-Hombach, V., Co-Leader of IGCP 610<br/>Executive Director of the Conference</i></div>                        |

## PANEL 1: STRATIGRAPHY AND PALEOENVIRONMENTAL RECONSTRUCTIONS

Moderators: Nikolay PANIN (Romania) and Andrei CHEPALYGA (Russia)

Chairpersons:                      Gigi OAIE (Romania)  
                                             Daniel KELTERBAUM (Germany)

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|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9.30-10.00<br>Key-note | <b>The influence of glacial Lake Agassiz and other large lakes on oceans, climate, and humans.</b><br><div style="text-align: right;"><i>Teller, J. (Canada)</i></div>                                                                                                                                             |
| 10.00-10.15            | Neopleistocene stratigraphy of the Ponto-Caspian Corridors<br><i>Yanko-Hombach, V., Yanina, T.A, and Motnenko, I. (Ukraine, Canada, Russia)</i>                                                                                                                                                                    |
| 10.15-10.30            | The Pleistocene climatostratigraphy and environments of the Terek-Kuma Lowland (NW Caspian Sea Region), based on palynological, paleomagnetic and rodent fauna analyses of the Otkaznoye key section.<br><div style="text-align: right;"><i>Bolikhovskaya, N.S., Faustov S.S., and Markova A.K. (Russia)</i></div> |
| 10.30-10.45            | Geomorphology and paleogeography of the Iranian coast of Caspian Sea in late Quaternary<br><div style="text-align: right;"><i>Badyukova E.N., Svitoch A.A., and Sheikhi B. (Russia)</i></div>                                                                                                                      |

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| 10.45-11.00 | <b>Coffee Break (Ilila State University)</b> |
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| 11.00-11.15 | Beach ridge formation on gentle and deep slope coast under rapid sea level changes. |
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|             | <i>Lahijani, H., and Naderi, A. (Iran)</i>                                                                                                                                                                                                                                 |
| 11.15-11.30 | Forcing factors on Caspian Sea level changes in the Late Pleistocene and Early Holocene: contribution from palynology.<br><i>Leroy, S., Kakroodi, A., Chalié, F., Tudryn, A., Kroonenberg, S., Lahijani, H., and Arpe, K. (UK, Iran, The Netherlands, France, Germany)</i> |
| 11.30-11.45 | Chocolate clays of the Northern Caspian Sea Region: distribution, structure and origin.<br><i>Makshaev R.R., and Svitoch A.A. (Russia)</i>                                                                                                                                 |
| 11.45-12.00 | Paleogeography of the Caspian late Pleistocene: New data.<br><i>Yanina, T.A., Sorokin V.M., Bezrodnykh Yu.P., and Romanyuk B.F. (Russia)</i>                                                                                                                               |
| 12.00-12.15 | Island Ogurchinsky at coast of Turkmenia is one of proofs of Amu-Darya river confluence into the Caspian Sea in the Middle Ages.<br><i>Badyukova, E. (Russia)</i>                                                                                                          |
| 12.15-12.30 | Recent deformation processes and ecological consequences on long-term developed petroleum fields.<br><i>Feyzullayev, A.A. (Azerbaijan)</i>                                                                                                                                 |
| 12.30-12.45 | Caspian rapid Sea level impact on Gastropods temporal and spatial variation.<br><i>Khoshnavan, H., and Khoshnavan, A. (Iran)</i>                                                                                                                                           |
| 12.45-13.00 | Observations on Late Pleistocene flooding of the Eurasian Continental Interior and possible alluvial origin of loess.<br><i>Gallagher, R. (UK)</i>                                                                                                                         |

13.00-14.00 **Lunch (Cafeteria in close vicinity to the Ilia State University)**

## **PANEL 1: STRATIGRAPHY AND PALEOENVIRONMENTAL RECONSTRUCTIONS**

Moderators: Nikolay PANIN (Romania) and Andrei CHEPALYGA (Russia)

Chairpersons: James TELLER (Canada)  
Andrei CHEPALYGA (Russia)

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| <b>14.00-14.30<br/>key-note</b> | <b>Quaternary Geology, Volcanism, Seismicity and Mineral Resources of Georgia, the Caucasus.</b><br><b><i>Okrostsvaridze, A., Magalashvili, A., Janelidze, Z., and Elashvili, M. (Georgia).</i></b>                                          |
| 14.30-14.45                     | Stratigraphy and paleogeography of the Final Pleistocene and Paleolithic of the Dniester and Budzhak valleys.<br><i>Chepalysga, A., Gerasimenko, N., Gladyshevskaya, M., and Kiosak, D. (Russia, Ukraine)</i>                                |
| 14.45-15.00                     | Coquinite on the west Black Sea coast of Turkey (Sile, Istanbul): possible evidence for higher sea level during MIS3.<br><i>Erginal, A.E., Kiyak, N.G., Ekinci, Y.L., Demirci, A., Kirci-Elmas, E., Ertek, T.A., and Ozturk, T. (Turkey)</i> |
| 15.00-15.15                     | The evolution of the Taman Peninsula - sea level changes, geoarchaeology and paleogeography.<br><i>Kelterbaum, D., Brückner, H., Dan, A., Schlotzhauer, U., and</i>                                                                          |

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| 15.15-15.30 | <p style="text-align: right;"><i>Zhuravlev, D. (Germany, France, Russia)</i></p> <p>Modified coastal shoreline during the Holocene along the northern Marmara, Turkey: two examples of submerged settlement of Byzantine times.</p> <p style="text-align: right;"><i>Koral, H., İşbil, D., Aydingün, Ş., and Tur, H. (Turkey)</i></p> |
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| 15.30-15.45 | <b>Coffee Break</b><br><b>(Ilia State University)</b> |
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| 15.45-16.00 | <p>Extreme marine events in the NW part of the Black Sea, revealed by sedimentological, paleontological and radiocarbon data.</p> <p style="text-align: right;"><i>Oaie, G., Opreanu, P., and Seghedi, A. (Romania)</i></p>                                                                                              |
| 16.00-16.15 | <p>Diagenetic characteristics and OSL chronology of North Cyprus Beachrocks: implications for late Holocene sea level changes.</p> <p style="text-align: right;"><i>Ozturk, M.Z., Erginal, A.E., and Kiyak, N.G.</i></p>                                                                                                 |
| 16.15-16.30 | <p>Evolution of the Danube Delta coastline in the Holocene.</p> <p style="text-align: right;"><i>Panin, N., Stănică, A., and Oaie, G. (Romania)</i></p>                                                                                                                                                                  |
| 16.30-16.45 | <p>Paleoglaciations in NE Anatolia and paleoenvironmental implications.</p> <p style="text-align: right;"><i>Reber, R., Tikhomirov, D., Akçar, N., Yesilyurt, S., Yavuz, V., Kubik, P., and Schlüchter, C. (Switzerland, Turkey)</i></p>                                                                                 |
| 16.45-17.00 | <p>Bottom sediment thicknesses as a sedimentation rate and deposition environment indicator in the shelf of the Northwestern Black Sea.</p> <p style="text-align: right;"><i>Tyuleneva N.V., Suchkov I.A., and Fedoronchuk N.A. (Ukraine)</i></p>                                                                        |
| 17.00-17.15 | <p>Pollen-derived biomes in the Caspian-Black Sea-Mediterranean corridor in relation to climate and vegetation.</p> <p style="text-align: right;"><i>Marinova, E., Bragg, F., Connor, S., de Laet V., Mudie, P., Leroy, S.A.G., Harrison, S.P., and EMBS/CBIO members (Canada, Belgium, UK, Portugal, Australia)</i></p> |
| 17.15-17.30 | <p>New evidence for a possible Late Holocene tsunami in SW Marmara Sea, Southern Marmara Archipelago, NW Turkey.</p> <p style="text-align: right;"><i>Ertek, T.A., Erginal, A.E., Kilic, E., Kirci-Elmas, E., Ekinci, Y.L., Demirci, A. (Turkey)</i></p>                                                                 |
| 17.30-18.00 | <b>Questions, Discussion.</b>                                                                                                                                                                                                                                                                                            |

## 14 OCTOBER 2013

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

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| Chairpersons: | Valentina YANKO-HOMBACH (Ukraine, Canada)<br>Valeria MIKHALEVICH (Russia)                                                                                                                                    |
| 9.00-9.15     | <p>Foraminifera under hypoxia/anoxia conditions at the Istanbul Strait's (Bosporus) outlet area of the Black Sea</p> <p style="text-align: right;"><i>Sergeeva N. G., and Mazlumyan S.A. (Ukraine)</i></p>   |
| 9.15-9.30     | <p>Foraminifera as indicators of environmental stress: A new evidence from the Romanian shelf</p> <p style="text-align: right;"><i>Yanko-Hombach, V., Kondaryuk, T., and Likhodedova, O.G. (Ukraine,</i></p> |

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| 9.30-9.45  | Modern Structure of Meiobenthos of north-western shelf of the Black Sea.<br><i>Sergeeva, N.G., Kharkevych, Kh.O., and Revkova, T.N. (Ukraine)</i> | <i>Canada</i> |
| 9.45-10.00 | On the distribution of the Recent hard shelled foraminifera in the Black Sea.<br><i>Mikhalevich, V. (Russia)</i>                                  |               |

### PANEL 3: ARCHAEOLOGY, HISTORY, AND ETHNOLOGY

Moderators: Nikoloz TUSHABRAMISHVILI (Georgia) and Olena SMYNTYNA (Ukraine)

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| Chairpersons: | Olena SMYNTYNA (Ukraine)<br>Nikoloz Tushabramishvili (Georgia)                                                                                                                                                                                                   |                                       |
| 10.00-10.30   | <b>Paleolithic of Georgia.</b>                                                                                                                                                                                                                                   |                                       |
| Key-note      |                                                                                                                                                                                                                                                                  | <i>Tushabramishvili, N. (Georgia)</i> |
| 10.30-10.45   | The submerged chalcolithic landscape of Taraschina : implications for human settlement within the Danube delta.<br>Carozza, J.-M, Carozza, L., Radu, V, Levêque, F., Micu, C., Burens, A., Messenger, E., Opreanu, G., Haita, C., and Danu, M. (France, Romania) |                                       |

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| 10.45-11.00 | <b>Coffee Break (Ilila State University)</b> |
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| 11.00-11.15 | New data on Oldowan migration to Europe via the northern Black Sea Corridor in the light of the latest discoveries in the northern Caucasus and Dniester Valley.<br><i>Chepalyga, A.L. (Russia)</i>                                       |  |
| 11.15-11.30 | The Aegean route: An alternative route for the Neanderthals and Anatomically Modern Humans (AMHs) travelling from Asia to Europe and <i>vice-versa</i> .<br><i>Ferentinos, G., Gkioni, M., Geraga, M., and Papatheodorou, G. (Greece)</i> |  |
| 11.30-11.45 | East Mediterranean environmental change and human dispersal from cave deposits.<br><i>Frumkin, A., Bar-Matthews, M., Lisker, S., and Vaks, A. (Israel)</i>                                                                                |  |
| 11.45-12.00 | Is there a correlation between archaeological and climatic changes in the Middle to Upper Palaeolithic transition? An example from the Hellenic Peninsula.<br><i>Gkioni, M., Ferentinos, G. (Greece)</i>                                  |  |
| 12.00-12.15 | Impact of Seismic and Volcanic Processes on Human Being in Paleolithic.<br><i>Tushabramishvili, N., and Elashvili, M. (Georgia)</i>                                                                                                       |  |
| 12.15-12.30 | Neolithic and Bronze Age cultures in the western Caucasus and changes in Black Sea level.<br><i>Zaitseva, G.I., Trifonov, V.A., Dergachev, V.A. (Russia, Moldova)</i>                                                                     |  |
| 12.30-12.45 | Lower Dniester – Lower Dnieper region during boreal period of Holocene: human adaptation to environmental changes.<br><i>Smyntyna, O. (Ukraine)</i>                                                                                       |  |

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| 12.45-13.00 | On the question of the Levallouis convergent point method in the near east and Ukraine: migration or convergence?<br><i>Usik V.I. (Ukraine)</i> |
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| 13.00-14.00 | <b>Lunch (Cafeteria in close vicinity to the Ilia State University)</b> |
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| <b>PANEL 4: MODELLING</b><br>Moderators: Nikolay ESIN (RUSSIA) and Alexander KISLOV (RUSSIA) |  |
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| Chairpersons: | Nikolay ESIN (Russia)<br>Akper FEYZULLAYEV (Azerbaijan) |
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| 14.00-14.15 | The method of the local curves separating to the eustatic and tec-tonic components.<br><i>Esin, N.I., and Esin, N.V. (Russia)</i>                                          |
| 14.15-14.30 | A simple approach to project climate extremes change: the Black sea and the sea of Azov case study.<br><i>Evstigneev, V., and Lemeshko, N. (Russia)</i>                    |
| 14.30-14.45 | Mathematical model of the Black Sea coast and shelf evolution during the Quaternary period.<br><i>Esin, N.V., and Esin, N.I. (Russia)</i>                                  |
| 14.45-15.00 | Climatic characteristics of the surface temperature extremes within the Caspian - Black Sea - Mediterranean corridor.<br><i>Matygin, A.S., and Erofeev, G.A. (Ukraine)</i> |

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| 15.00-11.15 | <b>Coffee-Break (Ilia State University)</b> |
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| 15.15-16.45 | <b>POSTER SESSION</b><br>(Ilia State University) |
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| <b>Geodynamics and Active Tectonics</b><br>Moderators: Hayrettin KORAL (Turkey) |  |
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| About the opportunity of Elbrus eruption forecast: structure of snow - the parameter of tectonic activity.<br><i>Alekseev V.A., Alekseeva, N.G., . Daniyalov, M.G., Bobkov, A.V, and Kerimov, A.M. (Russia)</i> |  |
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| <b>Recent Ecosystems</b><br>Moderator: Nelly SERGEEVA (Ukraine) and Valentina YANKO-HOMBACH (Ukraine, Canada) |  |
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| Dynamics of the Black Sea belt benthic biocoenosis and their connection with the Ears' planetary and solar cycles.<br><i>Bondarev I.P. (Ukraine)</i> |  |
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## Sea Level Changes and Paleoenvironmental Reconstructions

Moderators: Nikolay PANIN (Romania) and Andrei CHEPALYGA (Russia)

The Danube floods impact on the sedimentogenesis of the Black Sea littoral zone.

*Ankindinova, O. (Ukraine)*

On the age of Khvalynian transgression of the Caspian Sea according to  $^{14}\text{C}$  and  $^{230}\text{Th}/^{234}\text{U}$  methods.

*Arslanov Kh.A., Svitoch A.A., Yanina T.A., Chepalyga A.L., Maksimov F.E., Chernov S.B., and Tertychnyi N.I., Starikova A.A. (Russia)*

Late Pleistocene and Holocene sediments of the Lazarevsky Cape (Caucasian coast, Black Sea)

*Izmailov Ya.A. (Russia)*

The relationship between the history of the origin of Paliastomi Lake and the fluctuation regime of the mean Black Sea level.

*Janelidze, Z. I., and Chikhradze, N. (Georgia)*

Holocene mollusks of the Iranian Caspian coast and their stratigraphical importance.

*Khomchenko D.S., and Svitoch A.A. (Russia)*

Paleogeography of the Western Caucasus in Pliocene.

*Pinchuk T.N. (Russia)*

Holocene paleoenvironmental investigation of the Larim lagoon of the Southern Caspian Sea.

*Rahimi, E., and Lak, R. (Iran)*

## Palynology and Paleontology

Moderators: Petra MUDIE (Canada) and Valentina YANKO-HOMBACH (Ukraine, Canada)

Paleoecology of the Scythian population in the foothills of the Crimean Mountains based on pollen study of the Ak-Kaya settlement.

*Gerasimenko, N., Yurchenko, T., and Zaytsev, Yu. (Ukraine)*

The Kerch-Taman volcanic province: microbiota from "the atmosphere—volcanic mud discharge" contact zone.

*Smyrnova, L.L., Popov, M.V., Alekseev, V.A., and Bobko, N.A. (Ukraine)*

Changing biogeographic identity: Mediterranean vs Pontocaspian mollusk turnover in the record of Gemlik Bay marks the post-glacial marine inundation of a secluded embayment of the Marmara sea.

*Taviani, M., Wesselingh, F., Angeletti, L., Çağatay, N., Gasperini, L., and Polonia, A. (Italy, The Netherlands, Turkey)*

## Archaeology, History, and Ethnology

Moderators: Nikoloz TUSHABRAMISHVILI (Georgia) and Olena SMYNTYNA (Ukraine)

Searching for the Golden Fleece – a geoarchaeological project in the Rioni delta plain.

*Laermanns, H., Kelterbaum, D., and Brückner, H. (Germany)*

Vardzia Cave Town (Georgia) and Environmental Problems Caused by Fibrous Zeolites.

*Okrostsvavidze, A., Kilasonia, and E., Gagnidze, N. (Georgia)*

Field Investigation of the Mythical "Gold Sands" of Colchis Kingdom (Ancient Georgia) and the Argonauts Expedition Purpose.

*Okrostsvavidze, A., Javakhishvili, Z., Bluashvili, D., and Gagnidze N. (Georgia)*

Human response to climate changes in the Northwestern Pontic region at the Pleistocene-Holocene boundary: an application of environmental stress theory.

*Smyntyna, O., and Goncharenko, A. (Ukraine)*  
On the question of the two techno-complexes of the Lower Paleolithic in Tisza-Danube basin.  
*Kulakovska L. (Ukraine)*

16.00-16.20

**Coffee Break**  
**Ilia State University**

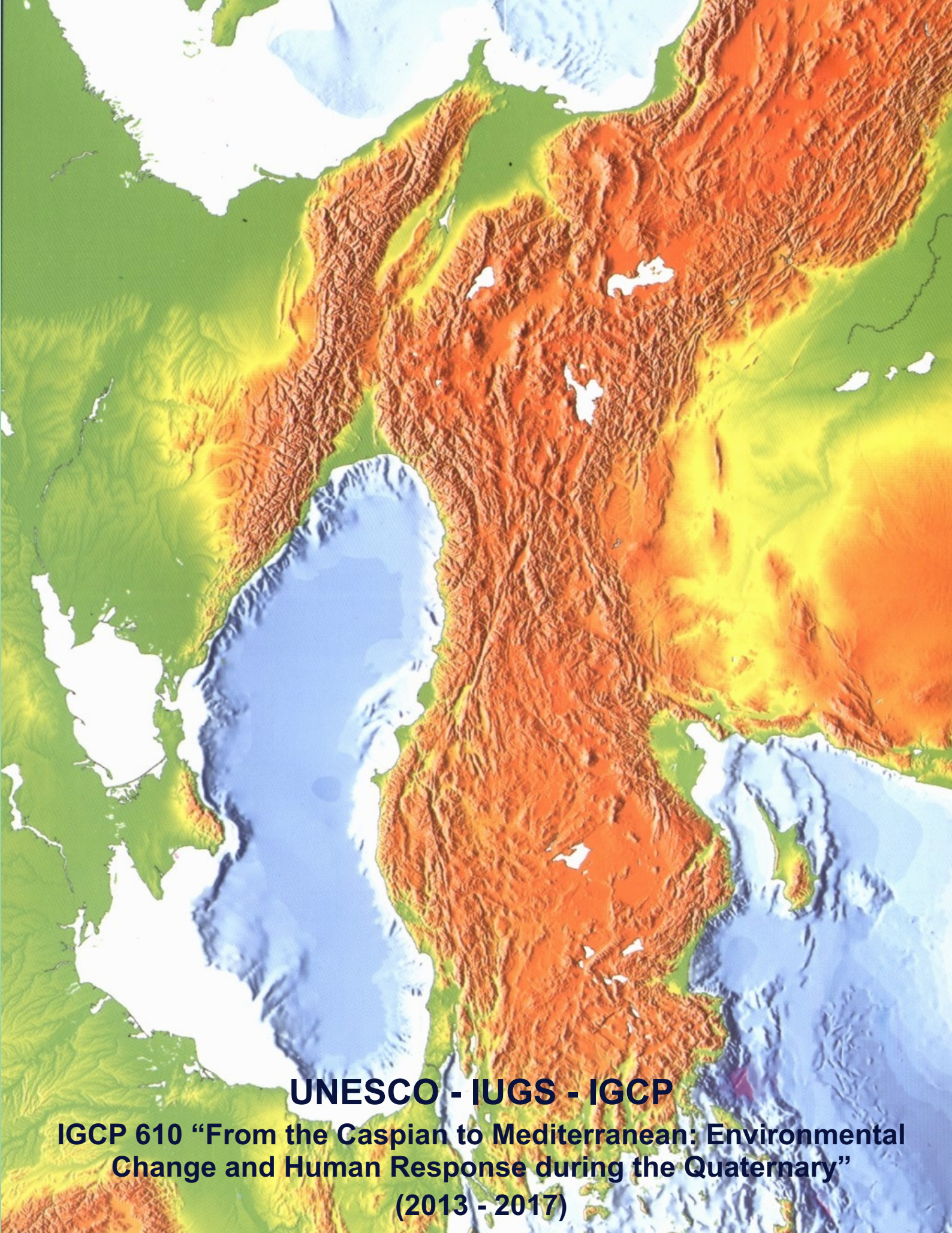
### **Round Table Discussion**

Moderators: Nikoloz TUSHABRAMISHVILI (Georgia) and Valentina YANKO-HOMBACH  
(Ukraine, Canada)

16.45-18.00

Round Table Discussion about IGCP 610 Project management and structure.

*Facilitator Valentina YANKO-HOMBACH (Ukraine, Canada)*



**UNESCO - IUGS - IGCP**

**IGCP 610 “From the Caspian to Mediterranean: Environmental  
Change and Human Response during the Quaternary”  
(2013 - 2017)**

**12-19 October 2013**

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