



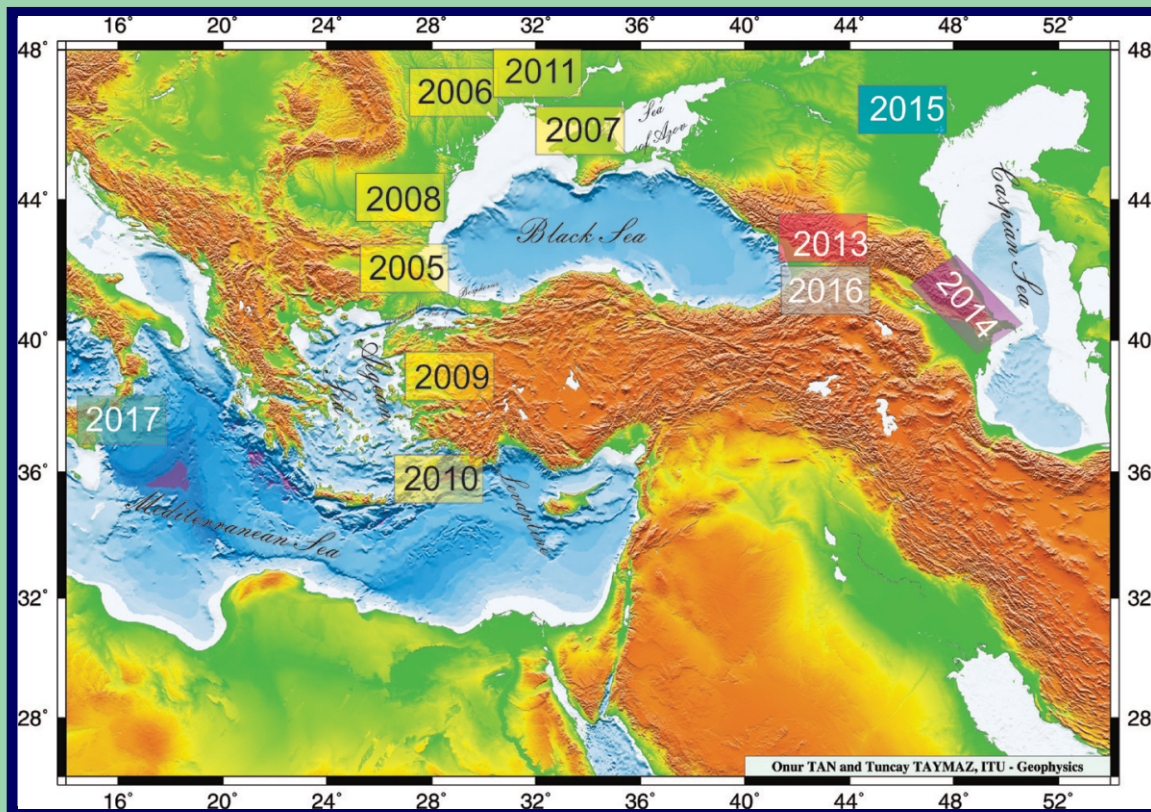
University of Palermo, Department of Marine and Earth Sciences, Italy



October 1-9, 2017



INTERNATIONAL GEOSCIENCE PROGRAMME



PROGRAMME

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

**INQUA IFG POCAS “Ponto-Caspian Stratigraphy and
Geochronology” (2017-2020)**

1 October 2017

17.00 – 21.00 **Registration and Ice-Breaking Party**
Calamida, Vai Cala, Banchina Cala (Palermo)
www.calamida.it
Prof. Antonio Caruso
Mobile +39 3667499005
E-mail: antonio.caruso@unipa.it

2 October 2017

9.00 – 18.00 **Registration and Technical Sessions**
Università degli Studi di Palermo
Conference Hall “Sala Lanza”
Orto Botanico (Botanic Garden)
2 Via Lincoln, 90133 Palermo
<http://www.ortobotanico.unipa.it/>

20:30 **Social Dinner (Palazzo Fatta, 19 piazza Marina)**
<http://www.palazzofatta.com/>

3 October 2017

9.00 – 18.00 **Technical Sessions**
Università degli Studi di Palermo
Conference Hall “Sala Lanza”
Orto Botanico (Botanic Garden)
2 Via Lincoln - 90133 Palermo

4 October 2017

9.00 – 13.30 **Visit of UNESCO Arab-Norman World Heritage, Palermo**
Meet at 9:00 at Piazza Bellini, Palermo

13.30 – 15.30 **Lunch in Palermo**

16.30 **Departure for the Field Trips**
Meet at the Botanic Garden, 2 via Lincoln - 90133 Palermo and
departure to Agrigento.
Arrival in Agrigento “Valle dei Templi” and accommodation in the
Hotel “Tre Torri” (half board)
<https://www.hoteltretorri.eu/contatti.php?lang=it>; dinner at the hotel

5 October 2017

- 8.30 – 18.00** **Field Trip 1:**
Departure from the hotel “Tre Torri” and arrival at Eraclea Minoa.
Visit to the Messinian-Lago Mare outcrops, Messinian/Zanclean GSSP.
13:30 – 14:30 box lunch on the beach of Eraclea Minoa (swimsuit).
15:00 visit to the Eraclea Minoa Greek Town.
Arrival in Agrigento “Valle dei Templi” and accommodation in the Hotel “Tre Torri”; dinner at the hotel.

6 October 2017

- 9.00 – 18.00** **Field Trip 2:**
Departure from the hotel “Tre Torri” and arrival at the Capo Rossello area.
Visit to the Turkish Scale and Zanclean/Piacenzian GSSP (Punta Piccola) and Pleistocene outcrop of Faro Rossello.
13:00 – 14:30 box lunch on the beach of Capo Rossello (swimsuit).
15:00 visit to the Valle dei Templi Greek Town.
<http://www.valleyofthetemples.com/>
Accommodations in the hotel “Tre Torri”; dinner at the hotel.

7 October 2017

- 9.00 – 18.00** **Field Trip 3:**
Departure from the hotel “Tre Torri” to Monte San Nicola Gela.
Visit to the Piacenzian/Gelasian GSSP and Gelasian/Calabrian boundary.
13:00 box lunch in the field.
Visit to Monte Gibliscemi.
Accommodations in the hotel “Tre Torri”; dinner at the hotel.

8 October 2017

- 9.00 – 16.00** **Field Trip 4:**
Departure from the hotel “Tre Torri” to the Villa del Casale, Piazza Armerina (UNESCO Heritage), and after that to Palermo.

9 October 2017

Departure from Palermo to respective countries.

2 October 2017

TECHNICAL SESSIONS

The “Lanza Conference Hall,” Botanic Garden (<http://www.ortobotanico.unipa.it/>),
via Abramo Lincoln 2 (Palermo, Italy)

Chairpersons: Antonio CARUSO (Italy) and Valentina YANKO-HOMBACH (Ukraine, Canada)

9.00 – 9.10 Welcome

*Rector of Palermo University
Director of the DiSTeM: Prof. Antonio Mazzola*

9.10 – 9.25 IGCP 610 Progress Report

Yanko-Hombach, V. Co-Leader of IGCP 610 (Ukraine, Canada)

9.25 – 9.40 Outline of the INQUA Focus Group “Ponto-Caspian Stratigraphy and Geochronology, POCAS (2017–2020)

Yanko-Hombach, V., Yanina T., Kurbanov, R. (Canada, Ukraine, Russia, Turkmenistan)

PANEL 1: GENERAL QUESTIONS OF THE CORRIDOR

Moderator: Nikolay ESIN (Russia) and Alexander KISLOV (Russia)

Chairpersons: Fabrizio LIRER (Italy) and Tamara YANINA (Russia)

9.40– 10.20 Brief history of the astronomical tuning of the Plio/Pleistocene GSSPs
Keynote outcropping in Sicily (Southern Italy)

Caruso, A. (Italy)

10.20 – 10.40 Possible social-climatic consequences of changeability of circulation in Hadley’s cell

Yakovleva, N., Matygin, A. (Ukraine)

10.40 – 11.00 Global geological processes in the Caspian-Mediterranean region during the Miocene-Pleistocene

Esin, N.V., Esin, N.I., Yanko-Hombach, V. (Russia, Canada, Ukraine)

11.00 – 11.20

Coffee Break

PANEL 2: BLACK SEA & SEA OF MARMARA REGION

Moderators: Valentina YANKO-HOMBACH (Ukraine, Canada) and Hayrettin KORAL (Turkey)

Chairpersons: Maria MARINO (Italy) and Ruben KOSYAN (Russia)

11.20 – 11.40 Wave climate variation in the Black Sea

Kosyan, R.D., Divinskii, B.V. (Russia)

11.40 – 12.00 Microforaminiferal linings as a proxy for paleodelta and paleosalinity analysis: Danube Delta example

Mudie, P.J., Yanko-Hombach, V. (Canada, Ukraine)

12.00 – 12.20 New data on the distribution of palynomorphs in surface sediments of the Ukrainian part of the northwestern Black Sea shelf

Mudryk, I.S. (Ukraine)

12.20 – 12.40 Marine geohazards in the Black Sea and their monitoring

Oaie, G., Seghedi, A., Rădulescu, V. (Romania)

- 12.40 – 13.00** OSL-chronology of the late Quaternary loess-soil series in the eastern Azov Sea region
Kurbanov, R.N., Zhou, Liping, Sychev, N.V. (Russia, China)
- 13.00 – 14.00** **Lunch**

PANEL 2: BLACK SEA and SEA OF MARMARA REGION
Moderators: Valentina YANKO-HOMBACH (Ukraine, Canada) and Hayrettin KORAL (Turkey)

- Chairpersons:** **Claudia COSENTINO (Italy) and Andrei CHEPALYGA (Russia)**
- 14.00 – 14.40** **Unique marine terrace system of the Crimean and Black Sea Basins: stratigraphy, archaeology, and the oldest Oldowan migrations to Europe**
Keynote
Chepalyga, A. (Russia)
- 14.40 – 15.00** Regional distribution and clay mineralogy of the modern sediments in the northwestern zone of the Black Sea
Rădan, S. (Romania)
- 15.00 – 15.20** Late Miocene volcanic ash layers of the intermountain depression of the Eastern Caucasus: the products of the Megacaldera explosion?
Okrostsvaridze, A., Gagnidze, N., Kilasonia, E., Bobrova, I., Skhirtladze, I. (Georgia)
- 15.20 – 15.40** Late glacial to Holocene Black Sea evolution based on microfaunal and stable oxygen isotope records
Briceag, A., Yanchilina, A., Ryan, W.B.F., Stoica, M., Melinte-Dobrinescu, M.C. (Romania, USA)
- 15.40 – 16.00** Neotectonics in the Marmara Region, NW Turkey
Koral, H., Emre, H. (Turkey)
- 16.00 – 16.20** **Coffee Break**
- 16.20 – 16.40** Narrow shelf canyons vs. wide shelf canyons in the Black Sea
Jipa, D.C., Panin, N. (Romania)
- 16.40 – 17.00** Reconstructing vegetation changes and climate from pollen of the Late Pliocene to Early Pleistocene in the North Caucasus
Naidina, O. (Russia)
- 17.00 – 17.20** Mud volcanism of the Black Sea region
Shnyukov, E., Yanko-Hombach, V. (Ukraine, Canada)
- 17.20 – 17.40** Meiobenthos as an indicator of gaseous hydrocarbon reservoirs under the floor of the Black Sea
Yanko-Hombach, V., Kadurin, S., Kravchuk, A.O., Kulakova, I.I. (Ukraine, Canada)
- 17.40 – 18.00** Stone age people in Crimea: an anthropological study
Vasilyev, S., and Borutskaya, S. (Russia)

3 October 2017

PANEL 2: CASPIAN SEA REGION
Moderators: Tamara YANINA (Russia) and Elmira ALIYEVA (Azerbaijan)

- Chairpersons:** **Alessandro Incarbona (Italy) and Dadash HUSEYNOV (Azerbaijan)**
- 9.00 – 9.40** **Tectonics, fluid dynamics, and Caspian Sea level change: geological and environmental aspects**
keynote

Huseynov, D.A., Aliyeva, E.H.-M., Kangarli, T.N. (Azerbaijan)

- 9.40 – 10.00** Bionomy of the southern Caspian basin in the Pliocene-Pleistocene
Ali-Zadeh, A., Aliyeva, E. (Azerbaijan)
- 10.00 – 10.20** The Northern Caspian Sea: Environmental consequences of the climate change during the Khvalynian epoch (evidence from the boreholes)
Yanina, T., Sorokin, V., Bezrodnykh, Yu., Romanyuk, B. (Russia, Latvia)
- 10.20 – 10.40** New results on the chronology of late Pleistocene paleogeographical events of the Northern Caspian Sea (OSL dating)
Kurbanov, R.N., Murray, A.S., Yanina, T.A. (Turkmenistan, Russia)
- 10.40 – 11.00** Age of the Paleolithic site Sukhaya Mechetka (Lower Volga region)
Tkach, N.T., Sychev, N.V. (Russia)
- 11.00 – 11.20** **Coffee Break**

PANEL 4: MEDITERANEAN REGION

Moderators: Antonio CARUSO (Italy) and Svetlana BORUTSKAYA (Russia)

- Chairpersons: Agata Di STEFANO (Italy) and Roger KURBANOV (Russia, Turkmenistan)**
- 11.20 – 11.40** The climate record of Marine Isotope Stage 19 from marine and terrestrial signals in the Alboran and Ionian basins
Marino, M., Bassinot, F., Bertini, A., Combourieu Nebut, N., Girone, A., Herbert, T., Maiorano, P., Nomade, S., Toti, F. (Italy)
- 11.40 – 12.00** Anthropological characteristics of the adaptation of the Fayoum oasis population (Egypt) in the Greco-Roman period
Borutskaya, S.B., Vasilyev, S. (Russia)
- 12.00 – 12.20** Planktonic foraminifera as proxies of the Holocene climatic variability (Tyrrhenian, Mediterranean Sea)
Bonfardeci, A., Caruso, A., Cosentino, C., Scopelliti, G. (Italy)
- 12.20 – 12.40** Paleoclimatic reconstruction from marine records of the central and western Mediterranean area over last five millennia using planktonic foraminifera
Margaritelli, G., Lirer, F. (Italy)
- 12.40 – 13.00** Questions, discussion
- 13.00 – 14.00** **Lunch**

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

14.00 – 16.00

- Chairpersons: Alessandro BONFARDECI (Italy) and Antoneta SEGHEDEI (Romania)**
- 1** Information on the circumstances of paleogeographic formation of the Productive Series basin of eastern Azerbaijan and on the first Pliocene sea level fluctuation
Amrahov, R.R., Amrahova, Kh.R., Amrahova, S.A. (Azerbaijan)
- 2** Magnetometric and electrometric investigations in the Salsovia submerged archaeological site
Anghel, S. (Romania)
- 3** The role of coastal geomorphology in interpreting the history of the northern Caspian plain in the late Pleistocene
Badyukova, E. (Russia)

- 4 Methods and equipment for conducting field research into surface layer characteristics by sounding in the short-wave range of radio waves in order to study environmental change
Belov, S.Yu., Belova, I.N. (Russia)
- 5 The first experience of dendroclimatological research in the eastern part of the Kazakh Upland (Saryarqa)
Berdnikova, A.A., Dolgova, E.A. (Russia)
- 6 The main stages of vegetation and climate evolution in the Kuban River Delta Region during the last 7.4 ka and their correlation with sea-level fluctuations of the Black Sea
Bolikhovskaya, N.S., Porotov, A.V. (Russia)
- 7 The role of the Black Sea shelf techno-geological system in the integrated management of rational resource use
Chepizhko, O.V., Kadurin, V.M., Kadurin, S.V. (Ukraine)
- 8 Monitoring of climate oscillations in the Mediterranean Sea over the last two millennia using planktonic foraminifera
Dentici, M.P., Lirer, F., Bonomo, S., Bellucci, L., Cascella, A., Caruso, A., Lubritto, C., Pappone, G. (Italy)
- 9 Dynamics of the Black Sea coast and vertical movements of the shelf in the late Pleistocene-Holocene
Esin, N.I., Ocherednik, V., Esin, N.V. (Russia)
- 10 Integrating high resolution Mid-Pleistocene sea surface temperature and productivity estimates from alkenone proxies with marine and terrestrial climate signals
Herbert, T.D., Bassinot, F., Bertini, A., Combourieu Nebut, N., Girone, A., Maiorano, P., Marino, M., Nomade, S., Toti, F. (USA, Italy)
- 11 First discoveries of Oligocene diatomic flora in the section of Pirakashkul (Shamakhi-Gobustan zone)
Kerimova, N. (Azerbaijan)
- 12 Paleoenvironmental reconstructions at the Pleistocene- Holocene boundary in the Black Sea based upon benthic foraminifera
Kondariuk, T. (Ukraine)
- 13 Geoacoustic and gas geochemical signs of hydrate presence on the continental slope north-east of the Black Sea
Kruglyakova, R., Shevtsova, N. (Russia)
- 14 Chemical composition of Lower Khvalynian deposits in the Middle and Lower Volga region
Makshaev, R.R. (Russia)
- 15 Small mammal faunas from the Mikulino (=Eemian) marine and liman deposits of the Black Sea
Markova, A.K. (Russia)
- 16 Vortices of the Cretan straits of the eastern Mediterranean and the Black Sea shelf
Popov, Yu.I., Matygin, A.S. (Ukraine)
- 17 Evaluation of geological hazards for the Trans-Caucasus Caspian oil and gas pipelines in the Abul-Samsari volcanic ridge section
Okrostsvaridze, A., Bluashvili, D., Boichenko, G., Gogoladze, S. (Georgia)
- 18 Hydrogeochemical evolution of limans of the northwestern Black Sea region in connection with the problem of their use as salt sources
Pedan, G., Dragomyretska, O. (Ukraine)

- 19 Sedimentary structure and late Holocene evolution of the coastal embayment on the southeastern coastline of the Crimean peninsula (Black Sea)
Porotov, A., Yanina, T. (Russia)
- 20 Unknown morphotypes as permanent representatives in the Black Sea anoxic and sulfidic bottom sediments
Sergeeva, N.G. (Russia)
- 21 Petrographic description of Chokrak-Spirialis Miocene deposits of Eastern Azerbaijan
Shiraliyeva, S. (Azerbaijan)
- 22 Holocene environments of the Volga River Delta: inferred from diatom assemblages in sediments of the Rycha River Channel
Shtyrkova, E.I., Polyakova, E.I. (Russia)
- 23 Correlation of the Late Quaternary sediments of the Eastern Mediterranean and Ponto-Caspian basins
Sorokin, V., Yanina, T. (Russia)
- 24 Adjustment theory in the study of human responses to global climate change in the Northwestern Black Sea region at the Pleistocene-Holocene boundary
Smyntyna, O. (Ukraine)
- 25 Paleogeographic stages of development of the Iranian coast of the Caspian Sea in the Holocene
Svitoch, A., Badyukova, E., Makshaev, R., Sheikhi, B., Yanina, T. (Russia)
- 26 On the other side of the Caspian Sea
Taumanova, G. (Russia)
- 27 Biodiversity of the Volga River delta mollusks in the Holocene
Yanina, T., Svitoch, A. (Russia)
- 28 Paleogeography of the Atelian period in the lower Volga region
Yarovaya, S.K., Kurbanov, R.N., Stevens, T., Költringer, C. (Russia)
- 29 Apsheron Deposits (Late Early Pleistocene) of the Lower Volga (Astrakhan Arch)
Zastrozhnov, A., Danukalova, G., Ushakova, D. (Russia)

16.00 – 16.20

Coffee Break

16.20 – 17.00

ROUND TABLE DISCUSSION

Co-Leaders: *Valentina Yanko-Hombach* (Ukraine, Canada) and *Tamara Yanina* (Russia)

17.00

CLOSING OF TECHNICAL SESSIONS

17.00 – 18.00

Meeting of the Working Group on the INQUA Project “Ponto-Caspian Stratigraphy and Geochronology, POCAS (2017–2020)”

A topographic map of the Caspian and Mediterranean regions, showing elevation with a color scale from green (low) to red (high). The Caspian Sea is visible in the center, and the Mediterranean Sea is to the south. The map highlights the mountainous terrain of the Caucasus and the surrounding lowlands.

UNESCO - IUGS - IGCP 610

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

<http://www.avalon-institute.org/IGCP610>

INQUA IFG POCAS

**“Ponto-Caspian Stratigraphy and Geochronology”
(2017-2020)**

October 1-9, 2017