



Scientific Conference on
Climate Change in the Caspian Sea region



PROVISIONAL ANNOTATED PROGRAMME

Wednesday, 27 October 2021 (CET Time)

(+1h Moscow; +1.5h Tehran; +2h Baku; +3h Ashgabat; + 4h Nursultan)

Please kindly connect 30 minutes before the beginning of the Conference to make sure that everything works correctly.

In case of technical issues, please, address to

Room 1 - Mr. Daniel Nixdorf; (EN) danixdo@posteo.org (+31 6 461 620 96; WhatsApp)

Ms. Kristina Russkikh; (EN&RU) kristina.russkikh@un.org (+7 985 490 50 30; WhatsApp)

Room 2 - Mr. Denis Shipilov (RU) cyberden85@gmail.com (+7 960 861 01 90; WhatsApp)

Ms. Julie Nevski (EN&RU) julie.nevski@un.org (+41 78 628 80 58; WhatsApp)

Room 1 (plenary session)

<https://us02web.zoom.us/j/83908334451?pwd=UjRDL0tKRm1pSW81c25pQzJvSHdUdz09>

Meeting ID: 839 0833 4451; Passcode: 696062

- 8:00 – 8:30
- Opening of the Conference (plenary session)
The Conference will be opened and chaired by **Dr. Sahar Tajbakhsh**, President of the Iranian Metrological Organization.
 - Welcome address by the representative of the Tehran Convention Secretariat
Mr. Mahir Aliyev, Coordinator of the Interim Secretariat of the Tehran Convention
 - Welcome address the representative of the CASPCOM
Ms. Danara Alimbayeva, Director General of Kazhydromet
 - Message by UNEP Chief Scientist
Ms. Andrea Hinwood
 - Message by Chair of the Intergovernmental Panel on Climate Change
Mr. Hoesung Lee
- 8:30 – 8:45
- Presentation of the Conference objectives (plenary session)

Ms. Elena Ostrovskaya, CASPCOM representative will present the programme of the Conference and outline its objectives.

The Conference has been organized by CASPCOM and the Tehran Convention interim Secretariat (TCIS) through an Organizing Committee consisting of representatives of the two organizations and of the five Caspian States. The Organizing Committee was chaired by Dr. Hamid Alizadeh Ketek Lahijani, Deputy of Research and Technology, Iranian National Institute for Oceanography and Atmospheric Science. The Organizing Committee selected the themes, abstracts and speakers of the Conference, prepared



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recommendations for each of the themes, and will be responsible for the Report and the Book of Abstracts to be issued after the Conference.

Following the welcome addresses, the four Conference themes will each be introduced by a keynote speaker. The keynote speakers will then each moderate a breakout session with up to 10 presentations, with a short time for Q&A. Each presenter is requested to summarize his/her presentation and ensuing Q&A discussion in one or two paragraphs for inclusion in the report of the Conference. The keynote speakers will be assisted by members of the Secretariat (CASPCOM; TCIS).

The Organizing Committee has prepared a set of recommendations for each of the 4 themes. They will be presented and shown on the screen at the end of each breakout session. Keynote speakers, presenters and participants are invited to consider and submit additional recommendations until a week after the Conference. The recommendations will be annexed to the Report of the Conference.

The Report of the Conference and the Book of Abstracts will be prepared by the Organizing Committee after the Conference and will be widely distributed. The Report of the Conference will indicate how the Conference was organized and conducted and include summaries of what has been presented and said at the Conference, as prepared and submitted by the speakers and presenters. The list of members of the Organizing Committee, the list of Conference participants and a list of all abstracts submitted with an indication of their selection will be annexed to the Report. The Book of Abstracts will, apart from an introductory part include the abstracts selected by the Organizing Committee for publication, each with a reference to the full article or underlying research.

8:45 – 10:30

- Keynote presentations (plenary session)

1. Climate of the Caspian Sea region and its changes in the 21st century.
Ms. Svetlana Dolgikh,
Candidate of Geographical Sciences, Head of climatic research department of RSE "Kazgidromet"
2. The Caspian Sea level change: analysis, modelling, and long-term projection.
Mr. Mikhail Bolgov,
Doctor of Technical Sciences, Chief Researcher of the Water Problems Institute, Member of the Russian National Committee for the UNESCO Intergovernmental Hydrological Program
3. The effects of climate change on the ecosystem and biodiversity of the Caspian Sea.
Ms. Natalia Ogar,
Doctor of Biological Sciences, Corresponding member of the National Academy of Sciences of the Republic of Kazakhstan and Russian Academy of Natural Sciences. Director of "Terra-Priroda" Ltd.
4. Adaptation to climate change in the Caspian Sea region.



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Mr. Murad Atadjanov
Director of the Institute of the Caspian Sea, Turkmenistan

10:30 – 11:00 Coffee break

11:00 – 12:00 Breakout sessions

Room 1

Climate of the Caspian Sea region and its changes in the 21st century.

<https://us02web.zoom.us/j/83908334451?pwd=UjRDL0tKRm1pSW81c25pQzJvSHdUdz09>

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Room 2

The Caspian Sea level change: analysis, modelling, and long-term projection.

<https://us02web.zoom.us/j/83294910013?pwd=RS9hOUlubS9WNmd3UVFDaDJSZVIKdz09>

Meeting ID: 832 9491 0013 Passcode: 248762

Moderator: **Ms. Svetlana Dolgikh,**

Moderator: **Mr. Mikhail Bolgov,**

*10 min for each presentation
5 min for Q&A after each of the presentation
20 min Recommendation*

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5 min for Q&A after each of the presentation
20 min Recommendation*

1) Climate research in the Turkmen part of the Caspian Sea

Ms. Maral Mukhammedova

1) Effect of Long-Term Variations in Wind Regime over Caspian Sea Region on the Evolution of its Level in 1948–2017

Mr. Nikolay Dianskiy

Ms. Tatiana Vyruchalkina
Mr. Vladimir Fomin

2) Modern Changes in Atmospheric Precipitation on the Absheron Peninsula of Azerbaijan

Mr. Said Safarov

Mr. Elnur Safarov,
Mr. Dzamal Guseynov
Ms. Naila Ismayilova

2) Modelling of Projected Caspian Sea Level under Increasing Anthropogenic Climate Change and Human Water Withdrawals during 21st Century

Mr. Sifan A. Koriche

Ms. Joy S. Singarayer
Ms. Hannah L. Cloke

3) Storm Surges in the Northern Part of the Caspian Sea and Atmospheric Circulation

Ms. Galina Surkova

Mr. Viktor Arkhipkin,

3) Future Decline of the Caspian Sea Level: Does the North Atlantic Oscillation Matter?

Mr. Matthias Prange

Ms. Sri Nandini-Weiss



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Mr. Ivan Okhlopov

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Ms. Ute Merkel

Mr. Klaus Arpe

4) Simulation of Dust Emission in Gorgan Bay Area in Semi-Arid Conditions

Ms. Parvin Ghafarian

Mr. Hamid A.K. Lahijani

Mr. Mohammadreza Mohammadpour Penchah

4) Modeling of the Caspian Sea Level in Various Climatic Conditions Using the IVMIO-CICE Oceanic Model and the INMCM Climate Model

Ms. Polina Morozova

Mr. Konstantin Ushakov

Mr. Evgeniy Volodin

Mr. Vladimir Semyonov

12:00 – 13:00 - Lunch break

13:00– 15:30 *Continued:* Breakout sessions

Room 1

Climate of the Caspian Sea region and its changes in the 21st century

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5) Volga Delta Hydrological Regime under Conditions of Modern Climate Changes

Ms. Olga Gorelits

Ms. Galina Ermakova

Mr. Igor Zemlyanov

Ms. Anna Sapozhnikova

Ms. Inga Milutina

5) Modeling of Wind Waves at the Port of Aktau

Ms. Aizat Yeltay

Ms. Natalia Ivkina

6) Evidences of the so-called 4.2 climate event observed in the cores collected from the southern Caspian Basin

Mr. Hadi Gerivani

Mr. Hamid A.K. Lahijani

Ms. Victoria Putans

6) Numerical Modeling of Physical Oceanography Properties in the Southern Caspian Sea

Mr. Javad Babagoli Matikolaei

Mr. Behzad Layeghi



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7) Evaluation of Climate Model Simulations of the Caspian Sea Region

Ms. Kim Stadelmaier

Mr. Patrick Ludwig
Mr. Joaquin Pinto

7) Assessment of the Impact of the Caspian Sea Level Falling to the Coastal Zone Geomorphology Characteristics of the Caspian Sea from the Cape Bandovan to Astarachay River of the Azerbaijan Water Basin Based on Satellite Image Processing

Ms. Turkan Mamishova

Mr. Amir Soltan Aliyev
Mr. Rauf Haji Gardashov

8) Projected Changes in Precipitation Intensity in the Southern Coast of the Caspian Sea Using a CMIP6 Multi-Model Ensemble

Ms. Azar Zarrin

Mr. Abbasali Dadashi-Roudbari

8) The Flow of the Volga River with Global Warming by 1.5 and 2 Degrees

Mr. Andrey Kalugin

9) Volga Water Flow under Conditions of Holocene Optimum and Scenario Anthropogenic Climate Changes in the 21st century

Mr. Alexander Georgiadi

Ms. Irina Milyukova

9) A Non-Linear Model of Caspian Sea Level Fluctuations in Paleotime

Mr. Anatoly Frolov

10) Assessment of Changes in the Caspian Sea Ice Cover by the End of the 21st Century According to Climate Scenarios

Ms. Zhanar Naurozbaeva

The breakout session will be concluded by the recommendations prepared by the Organizing Committee followed by a brief Q&A

10) Climate Changes and Fluctuations in the Caspian Sea Level: A Retrospective Analysis for the Last 10,000 Years

Ms. Tamara Yanina

Mr. Boris Romanyuk
Mr. Valentin Sorokin

The breakout session will be concluded by the recommendations prepared by the Organizing Committee followed by a brief Q&A



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Thursday, 28 October 2021 (CET Time)

9:00 – 10:30 - Breakout sessions

Room 1

The effects of climate change on the ecosystem
and biodiversity of the Caspian Sea

<https://us02web.zoom.us/j/88263227367?pwd=Vi9qQXVjQUdOTWRGOgt2dG5qcXBHQ09>

Meeting ID: 882 6322 7367 Passcode: 106620

Moderator: **Ms. Natalia Ogar**

*10 min for each presentation
5 min for Q&A after each of the presentation
20 min Recommendation*

1) Projected 2100 Caspian Sea Level Drop Has
Devastating Consequences

Mr. Frank P. Wesselingh

Mr. Matteo Lattuada
Mr. Thomas Wilke,
Ms. Sri Nandini-Weiss
Mr. Matthias Prange
Mr. Maxim Vinarski
PRIDE Team

2) EMODnet Seabed Habitats – Delivering a Habitat
Map for the Caspian Basin

Mr. Fergal McGrath

EMODnet Seabed Habitats consortium

3) Assessment of the state of the Caspian Sea
ecosystem due to the impact of climate changes in
recent years based on the results of studies in the
coastal waters of Azerbaijan

Mr. Elchin Mamedov

Room 2

Adaptation to climate change in the Caspian Sea
region

<https://us02web.zoom.us/j/82031123891?pwd=dG5sRU5GcmZiRnJqOEwvKythQjhJZz09>

Meeting ID: 820 3112 3891 Passcode: 709193

Moderator: **Mr. Murad Atadjanov**

*10 min for each presentation
5 min for Q&A after each of the presentation
20 min Recommendation*

1) Methodological Bases of Strategies for
Adaptation to Climate Change in the Regions of
Russia

Ms. Elena Akentieva

2) Lower Volga Region Water Management under
Conditions of Climate Changes

Mr. Igor Zemlyanov

Mr. Mikhail Bolgov
Mr. Alexander Buber
Ms. Olga Gorelits

3) Urbanization and Climate Change Adaptation in
Coastal area of Caspian Sea; Challenges and
Solutions; with focus on Iran and Azerbaijan

Mr. Mehrdad Rahmani



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Mr. Mehman Akhundov
Ms. Elnara Jafarova

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Ms. Katja Schaefer
Mr. Mateusz Benko
Ms. Cerin Kizhakkethottam
Mr. Soumyadeep Banerjee

4) On the dynamics of the biodiversity of the Turkmen sector of the Caspian Sea depending on climate variability

Mr. Eldar Rustamov

Mr. Alexandr Shcherbina
Mr. Sakhatmurat Mammedov

4) Towards the Possibilities of Achieving Land Degradation Neutrality in the Countries of the Caspian Region (on the Example of Russia, Kazakhstan and Turkmenistan)

Mr. German Kust

Ms. Olga Andreeva
Ms. Daria Shklyueva
Mr. Vasilij Lobkovskiy

10:30 – 11:00 - Coffee break

11:00 – 13:00 - *Continued:* Breakout sessions

Room 1

The effects of climate change on the ecosystem and biodiversity of the Caspian Sea

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Meeting ID: 882 6322 7367 Passcode: 106620

Room 2

Adaptation to climate change in the Caspian Sea region

<https://us02web.zoom.us/j/82031123891?pwd=dG5sRU5GcmZiRnJqOEwvKythQjhJZz09>

Meeting ID: 820 3112 3891 Passcode: 709193

5) Changes in the Trophic Capacity and Productivity of the Northern Caspian Sea under the Influence of a Changing Climate

Ms. Larisa Degtyareva

Ms. Elena Ostrovskaya
Mr. Roman Kashin

5) Modernization of the University Learning Courses on Geospatial Technologies in Order to Ensure the Environmental Safety of Coastal Ecosystems of the Caspian Sea

Mr. Orazmukhammed Durdyev

Mr. Govshut Shadurdyev

6) The Potential Impact of 21st Century Climate Change on Caspian Seals (*Pusa caspica*)

Mr. Simon Goodman

Mr. Harrison Tan

6) SOCAR's Proactive Steps in Combating Climate Change

Ms. Rana Humbatova



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7) Impact of the Climate Change and the Regression of the Caspian Sea on the Distribution and Abundance of the Caspian Seal (*Pusa Caspica*)

Mr. Mirgaliy Baimukanov

7) Improving the Quality of Climate Services through Automating the Marine Observation Network

Mr. Denis Shipilov

Ms. Elena Ostrovskaya

8) The Effects of Climate Change on the Iranian Side of the Caspian Sea Fish Stocks

Ms. Mahnaz Rabbaniha

8) Conservation and Effective Management of Biodiversity in the Context of Climate Change

Ms. Shirin Karryeva

Mr. Fereidoon Owfi

Mr. Hasan Fazli

Mr. Akbar Pourgholami

9) Study of the Flora of the Caspian Desert in the Context of Climate Change

Ms. Ogulnabat Rakhmanova

9) Contribution of International Projects on Climate Change in the Caspian Sea Region to the Tehran Convention Development and Implementation

Ms. Tatiana Butylina

Mr. Amirkhan Amirkhanov

Ms. Natalia Tretyakova

The breakout session will be concluded by the recommendations prepared by the Organizing Committee followed by a brief Q&A

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13:00 – 14:00 - Lunch break

Room 1 (Plenary session)

<https://us02web.zoom.us/j/88263227367?pwd=Vi9qQXVjQUd0TWRGOGt2dG5qcXBHQT09>

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14:00 – 15:30 Summary of the breakout sessions (plenary session)

The Chair will invite the keynote speakers to summarize the results of the breakout sessions, inform the Conference about the conclusions of the presentations and recommendations provided by the participants.

The Chair will furthermore inform the meeting about follow up actions as agreed



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by the Organizing Committee.

15:30 – 16:00 - Closure of the Conference (plenary session)

The Chair will invite the keynote speakers and other Representatives to provide closing remarks and after that close the Conference.