



Ministry of
Ecology and Natural Resources
of the Republic of Azerbaijan

Caspian Sea level fluctuations and Environmental expeditions



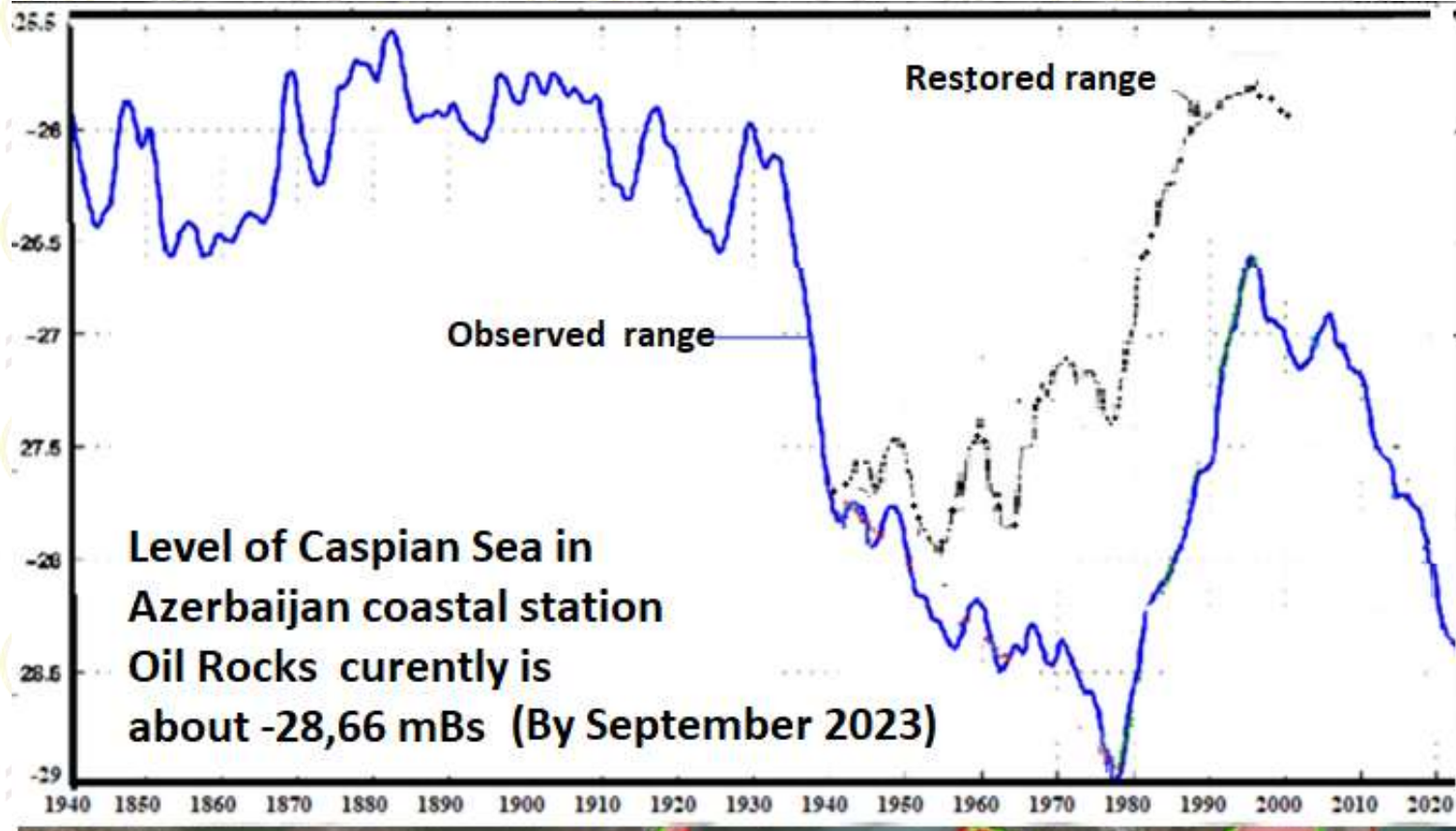
December 09, 2023



Dubai, UAE



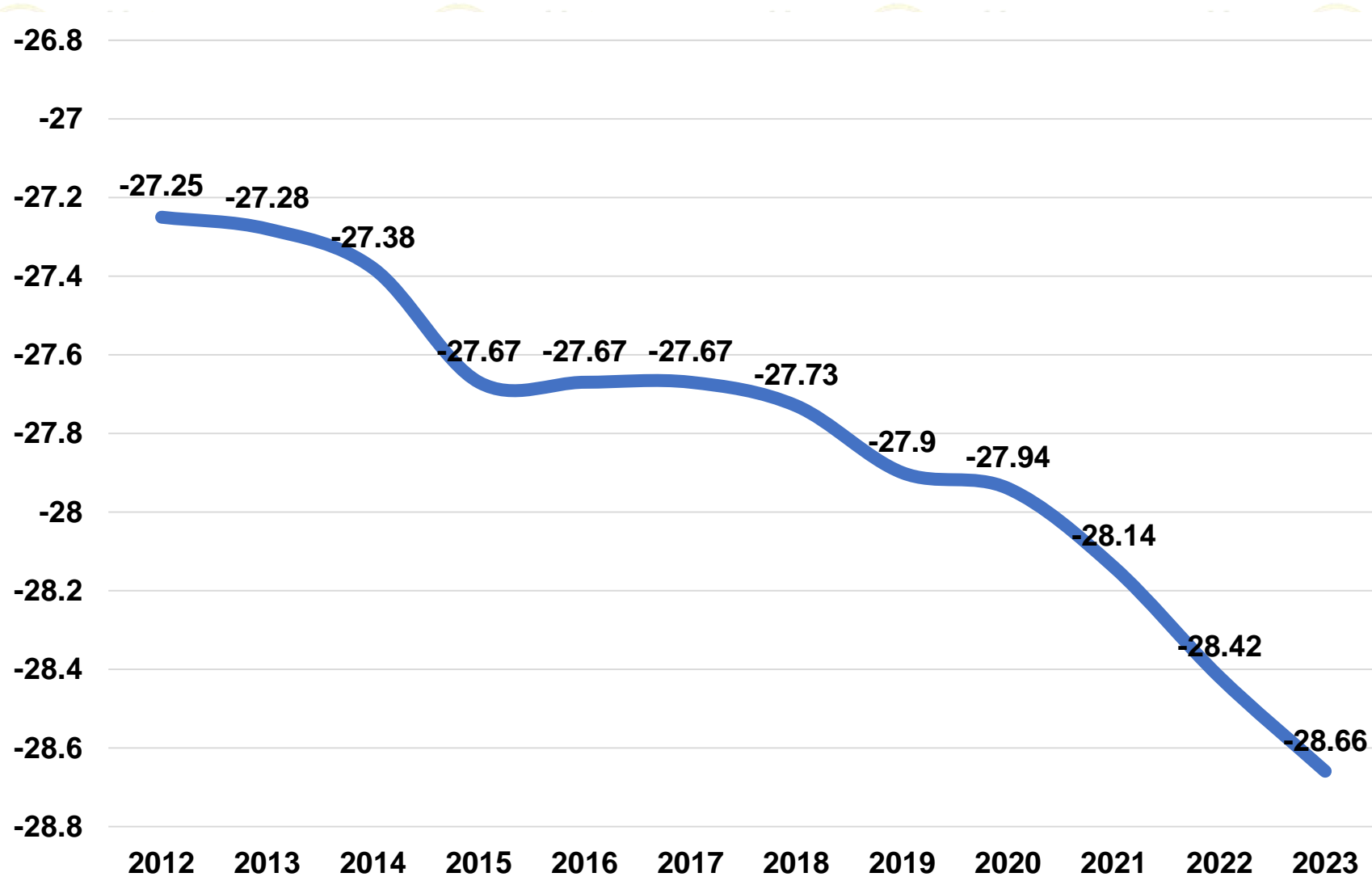
Caspian Sea level fluctuations



Main trends

- Decreases of sea level during 1930-40 mainly in result of natural factors
- Impact of construction and filling of reservoirs on sea level during 1940-1978
- High flow period: 1978-1995
- Low flow period in result of climatic changes 1995- 2023

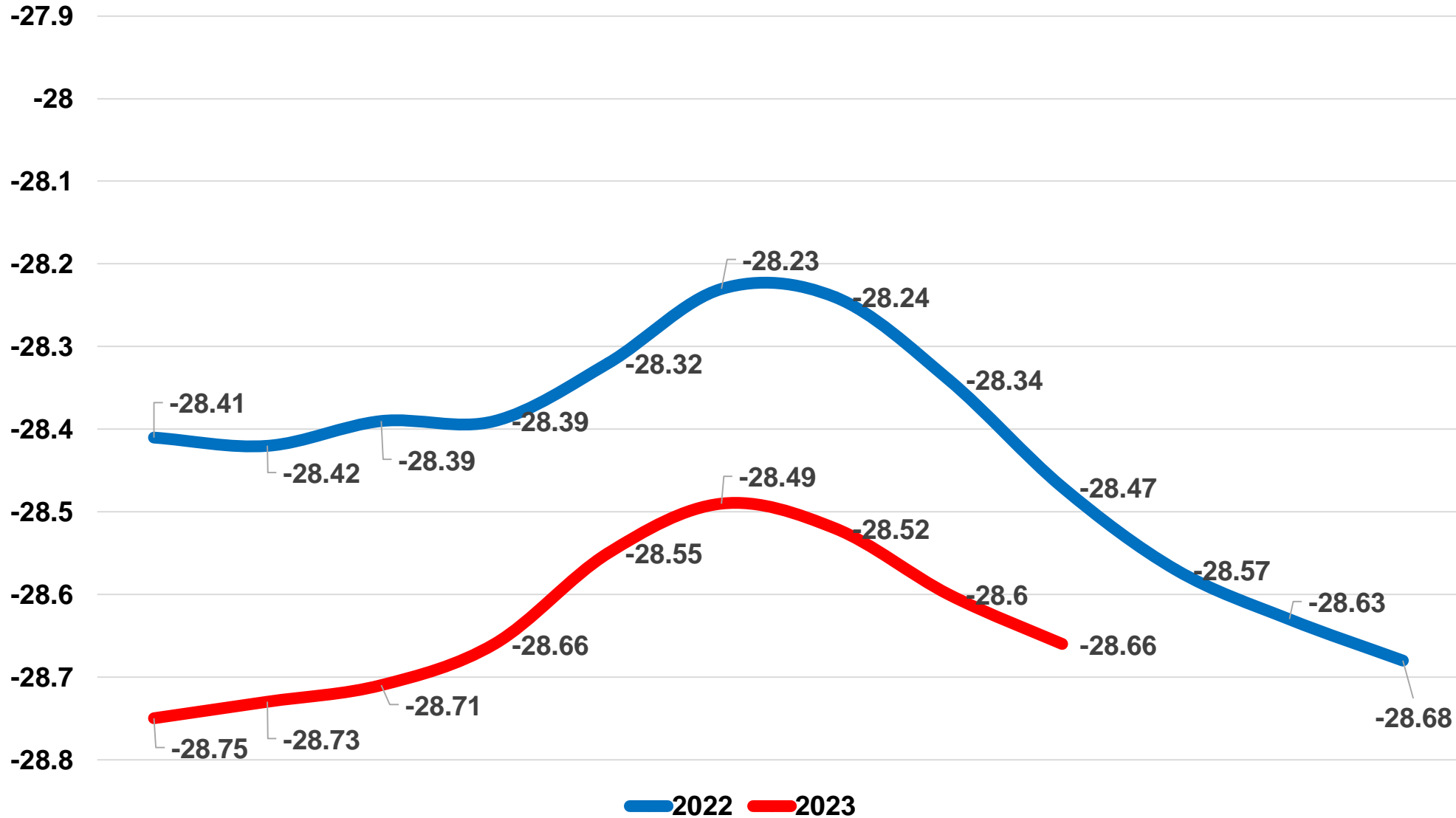
Caspian Sea level change, 2012-2023, mBs



Main trends

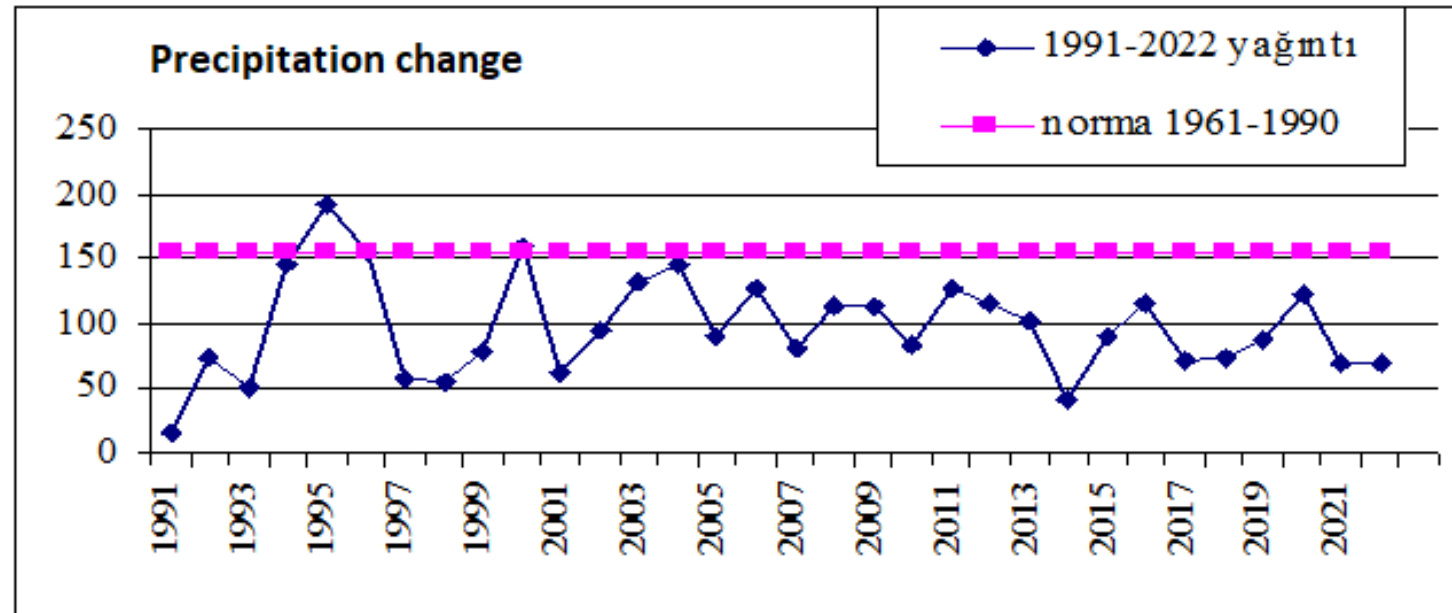
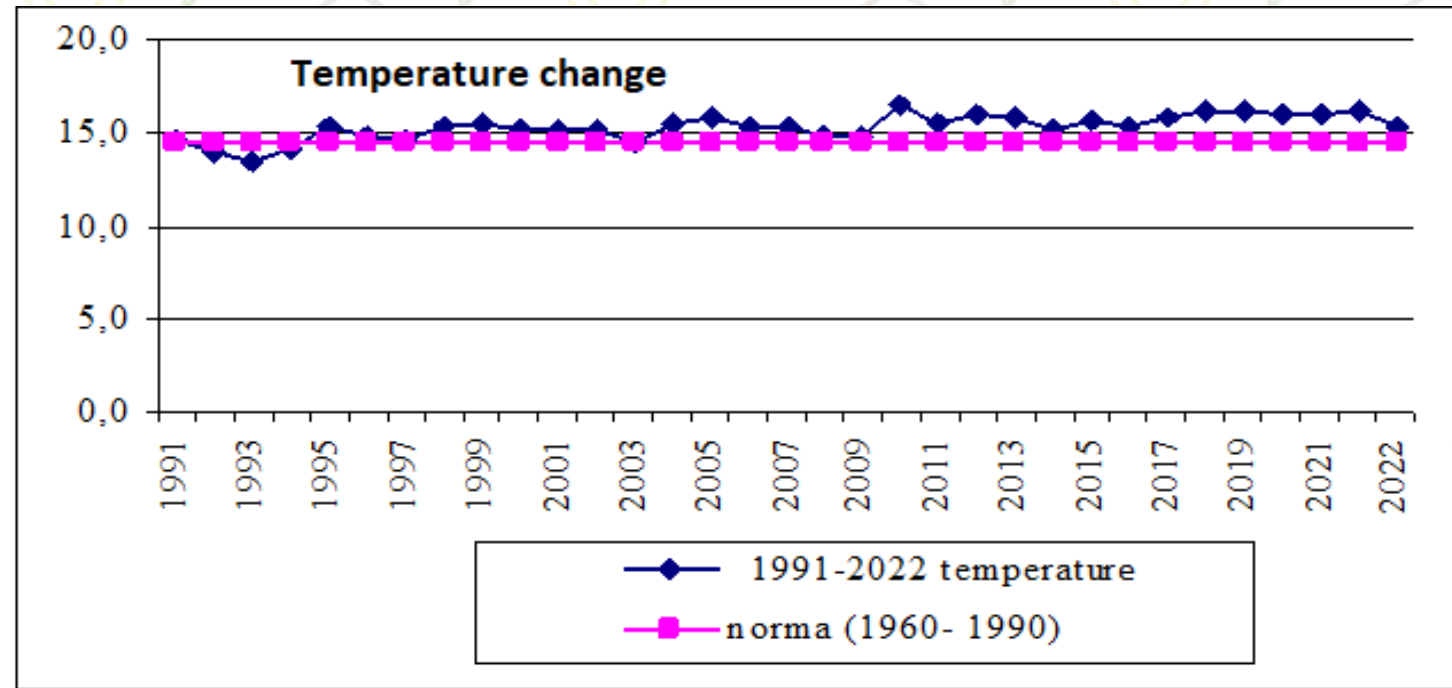
- During last 5-6 years Caspian Sea level reduced by 1 meter

Caspian Sea level change, 2022-2023, mBs



Climate change patterns in Azerbaijan coastal area

- During 1991-2022 years average air temperature increased by 0,6-1,1 °C
- In the same period average air temperature in coastal zone increased by 0,6-0,8 °C
- Air temperature increase occurs by higher intensity during last 10 years
- Precipitation level is under the norm almost during last 20 years



Caspian Sea level change impact on Kura



Caspian Sea level	-27,07 m
Year	1993



Caspian Sea level	-28,3
Year	2022

Increased coastal lands in Kura delta



"Alif Hajiyev" - scientific-research vessel

- **Length:** 49,90 metr
- **Width:** 10 metr
- **Board height:** 5 meters
- **Maximum height:** 24 meters
- **Waterproofing:** 3.6 meters
- **Register capacity:** 693 tons (gross) 207 tons (net)
- **Water capacity:** 929.2 tons
- **Power of energy installations:** 985 kW
- **Main engine power:** 1340 horsepower
- **Water reserve:** 95 tons
- **Fuel:** 93 tons
- **Number of cabins:** 21



Main activities

- Sampling of water and bottom sediments from different depths in the study of marine pollution
- Study the number and biomass of zooplankton and benthic organisms
- Protection of aquatic bioresources along the ship's route, fishing rules and management of waste generated by floating vehicles, identification of fishing gear left at sea
- Trawling to study the number of sturgeons and other fish in order to limit fishing and set quotas
- Study of biological resources and hydrological condition around the deposits and foundations, as well as geodetic works in the areas where it is necessary to assess the existing ecological condition
- Hydrometeorological parameters and measurement of gas mixtures in the atmosphere





Objective of expeditions

- Assessment of the quantity, commercial stocks and distribution of sturgeon, semi-anadromous and herring fishes;
- Identification of changes in the distribution and ratio of different populations of sturgeon fishes in the Caspian Sea, collection and analysis of relevant quantitative and morpho-biological data;
- Monitoring of the Caspian seal population and assessment of its condition;
- Identification of water quality and background level of pollution of bottom sediments of the Caspian Sea;
- Study of sea currents.



Identification of coordinates



Bottom sediments sampling



Water sampling



Water sampling



Measurement of pH, salinity, temperature and turbidity



Measurement of dissolved oxygen



**Scope of the
expedition: 19
stations and 67
monitoring points**

"My Clean Country" campaign






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THANK YOU FOR YOUR ATTENTION!

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