

**THE CONSERVATION OF THE CASPIAN SEA
ECOSYSTEM AND ITS BIOLOGICAL RESOURCES IN THE
CONTEXT OF CHANGING CLIMATE PROCESSES**

*Bogoslovskii Vasilii,
general director
Ecological Fund "Clean Seas"*



CLEAN SEAS
ECOLOGICAL FUND



FOUNDERS OF THE FUND



Sergey Krikalev

President of the Foundation,
Soviet and Russian cosmonaut,
Hero of the Soviet Union and
Hero of Russia



Vasily Bogoslovsky

General Director of the fund,
honorary worker of the sea and
river fleet, honorary polar
explorer

FOUNDATION BOARD OF TRUSTEES



Viktor Savinykh

Cosmonaut, twice Hero of the
Soviet Union, Academician of
the Russian Academy of
Sciences



Musa Manarov

Pilot-cosmonaut,
Hero of the Soviet Union

DIRECTIONS OF THE FOUNDATION'S ACTIVITIES



Industrial ecology



Objectives:

- *Accurate and adequate algorithm for solving environmental issues*
- *Increasing environmental performance of business activities*



Environmental projects



Objectives:

- *Uniting scientists, politicians, businessmen and officials for adequate interaction in the fight to preserve the environment and the biodiversity of its living resources*
- *Revival and promotion of aerial surveys - one of the most effective and promising methods for studying marine mammals in the most remote corners of Russia*



Image ecology



Objectives:

- *Development of PR and environmental strategies and concepts for socially responsible business*
- *Attracting business attention to solving environmental safety problems*

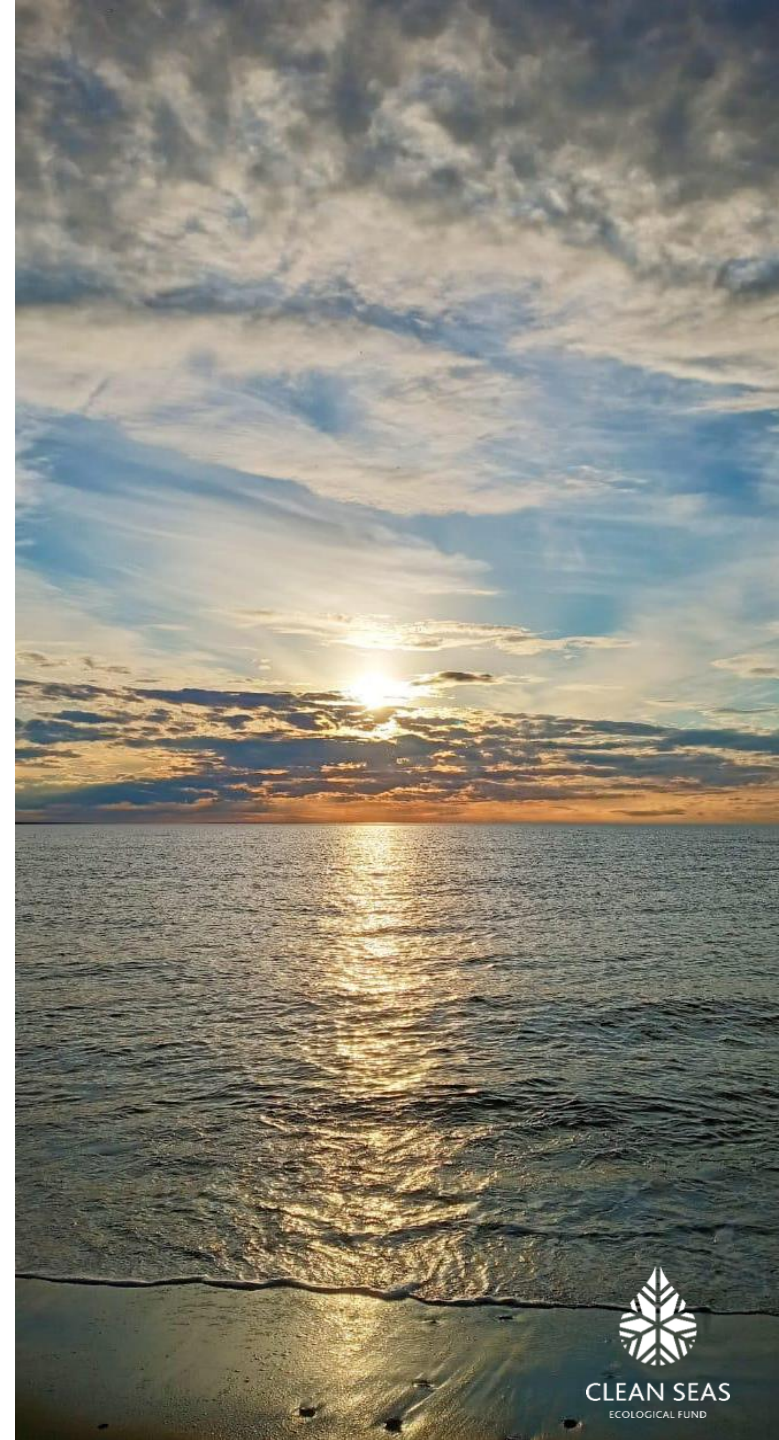


Environmental education



Objectives:

- *Formation of an environmental culture*
- *Increasing literacy levels of the population*
- *Popularizing Russian science*



THE CASPIAN SEA

- ❑ **The Caspian Sea is the largest lake on Earth**, located at the border between Europe and Asia, referred to as a sea because of its size
- ❑ **The biological resources** of the Caspian Sea include **800 species of fauna** and **500 species of flora**
- ❑ **Threats to the Caspian Sea:**
 - ❑ The regulation of rivers
 - ❑ Overfishing and illegal fishing
 - ❑ Overexploitation
 - ❑ Pollution from land-based and sea-based sources
 - ❑ Eutrophication and harmful alga blooms
 - ❑ Introduction of invasive alien species
 - ❑ Water level fluctuations
 - ❑ Climate change
- ❑ Recently **global climate change** has become **one of the main pressures on the Caspian Sea ecosystem and its biological resources** due to:
 - ❑ Desertification of the Caspian region
 - ❑ Sharp water level decrease
 - ❑ Reduced sea ice coverage
 - ❑ Increased average annual air temperature





**GREEN
STANDARD**
OF THE CASPIAN SEA

PROJECT

A non-governmental initiative, which represents a declarative set of environmental rules for voluntary adherence by economic entities, educational and research institutions, NGOs and other organizations of all Caspian littoral states.

PURPOSE

To unite the efforts of the non-governmental sector of the Caspian littoral states in preserving and protecting the ecosystem of the Caspian Sea, preventing and reducing environmental damage.



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GREEN STANDARD OF THE CASPIAN SEA

OBJECTIVES

- ❑ Increase of the level of **environmental safety**, resource conservation and energy efficiency
- ❑ Creation of a **favourable environment** for the population
- ❑ Increase of the level of **environmental transparency** of economic entities planning and/or carrying out their activities in the water area and coastal regions of the Caspian Sea
- ❑ Creation of a **unified system of environmental monitoring** with a consolidated database accessible to all Caspian littoral states
- ❑ Priority **application of "green" technologies** and solutions
- ❑ **Environmental risk management** for all projects under implementation





GREEN STANDARD OF THE CASPIAN SEA

IMPORTANCE

- A model of a new system of environmental regulation for the Caspian littoral states through the integrated application of various modern instrumental methods: satellite biotelemetry, multi-channel aerospace remote sensing, ship, air and ground observations following the example of the Russian Federation
- The issues of environmental protection of our Caspian Sea have no borders, nationalities, party affiliation, and are all of our common cause
- The mechanism for addressing the objectives outlined in the Protocol for the Protection of the Caspian Sea against Pollution from Land-based Sources and Activities, signed on December 12, 2012 in Moscow following the 4th Meeting of the Conference of the Parties to Framework Convention for the Protection of the Marine Environment of the Caspian Sea





WHY IS THIS NECESSARY?

The **Caspian seal** is an **indicator** of the state of the **Caspian Sea ecosystem**

Since **2020**, it has been listed in the **Red Book of Russia**



Conservation status **ENDANGERED** (USN 3.1)

A poorly studied species
(actively studied earlier as a commercial species)

Today there is insufficient knowledge of the most basic things:

- ✓ Number of seals
- ✓ Main habitats in summer
- ✓ Where they live in autumn and winter?
- ✓ Reasons for mass deaths, etc.

COMPREHENSIVE STUDY REQUIRED



ECOLOGICAL PROJECT FOR THE STUDY AND CONSERVATION OF THE CASPIAN SEAL



Душа Каспия

Экологический проект по изучению и сохранению каспийского тюленя

Экспедиция
25 октября
10 ноября 2021 г.

ПРИ ПОДДЕРЖКЕ:
МИНПРИРОДЫ РОССИИ
РОССТРОИТЕЛЬСТВА РОССИИ

ИНФОРМАЦИОННЫЕ ПАРТНЕРЫ:
РОССИЯ ТЕЛЕВИДЕНИЕ И РАДИО
КАСПИКА АСТРАХАНЬ

ЛУКОЙЛ
РОСМОРПОРТ
ЧИСТЫЕ МОРЯ
NABU «Кавказ»
ИВТЭ РАМ
АСТРАХАНСКИЙ ЗАПОВЕДНИК

COMPLEX EXPEDITIONS – 2021 and 2023

Stage I. Aviation monitoring

Period: autumn 2021 and winter 2023

Base airport: Astrakhan



Stage II. Labeling and taking biological samples

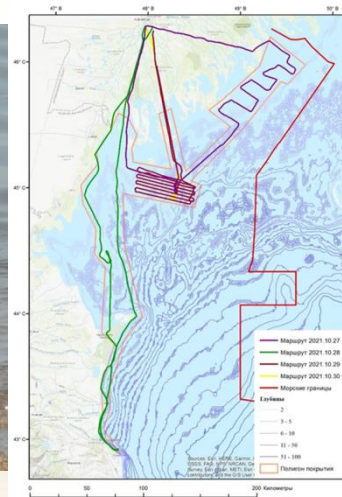
Period: September 2021

Expedition base location: Astrakhan Nature Reserve

Work location: Maly Zhemchuzhny Island



Caspian seal with tag





Presentation of the project in the format of a press conference at the Astrakhan airport

Press tour (excursion) to the airfield to the La-8 air laboratory



Participants were given the following instructions online:



*Dmitry Kobylkin,
Chairman of the Committee
on Ecology, Natural
Resources and
Environmental Protection of
the State Duma of the
Russian Federation*



*Irina Makanova,
Director of the Department of State
Policy and Regulation in the Sphere
of Development of Protected Areas
of the Ministry of natural resources
and environment of the Russian
Federation*

*The chief pilot of the air expedition
is Hero of Russia, cosmonaut
Valery Tokarev (pictured left)*



*Igor Babushkin,
Governor of the
Astrakhan Region*





CASPIAN SEAL DAY

WITH SUPPORT



Astrakhan State
Nature Reserve



Astrakhan State
Technical University

Astrakhan



24 марта



День
Каспийского
Тюленя



ФОНД
«ЧИСТЫЕ МОРЯ»



РОО СММ



ЗАПОВЕДНИКИ
— ЭКОЦЕНТР —



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**THANK YOU FOR
YOUR ATTENTION!**

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