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Viktor Komorin

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INTERNATIONAL AND INTERGOVERNMENTAL ROLES

- **National Oceanographic Data Centre (NODC)** contact for Ukraine within IOC/IODE. UkrSCES was designated an IODE Associate Data Unit in 2014 and became the Ukrainian NODC in 2019.
- **Expert Member**, UN Ocean Decade Advisory Board, 2026–2027 (IOC-UNESCO).
- **Member**, United Nations Group of Experts for the Fourth Cycle of the Regular Process for Global Reporting and Assessment of the State of the Marine Environment (World Ocean Assessment).
- **National Focal Point for Ukraine**, Global Ocean Observing System (GOOS).
- **Member / Ukrainian representative**, Advisory Group on Pollution Monitoring and Assessment of the Black Sea Commission.
- **Member**, Ukrainian Geographical Society.

PROFESSIONAL PROFILE

Marine scientist and research manager with more than 30 years of professional experience at the Ukrainian Scientific Centre of Ecology of the Sea (UkrSCES). Expertise covers oceanography, marine ecology, pollution assessment, ecosystem modelling, ocean data management, environmental monitoring and science-to-policy support.

Has participated in 25 research expeditions in the Black Sea, Mediterranean Sea, Atlantic Ocean and Southern Ocean. Extensive experience in coordinating multidisciplinary field and laboratory work and in international scientific cooperation.

KEY QUALIFICATIONS

- Oceanographic data and information management, open and interoperable marine data, NODC/IODE and OBIS-related activities.
- Marine ecological monitoring: methodology, organization and implementation; assessment of anthropogenic pressures and environmental status.
- Assessment, diagnosis and forecasting of marine ecosystems and biodiversity using mathematical modelling; ecosystem risk assessment and management.
- QA/QC procedures for environmental analyses and laboratory quality management in accordance with ISO/IEC 17025 principles.
- Scientific leadership, project management, personnel coordination and work in multicultural international teams.

WORK EXPERIENCE

Deputy Director for Science Ukrainian Scientific Centre of Ecology of the Sea (UkrSCES), Odesa, Ukraine | current position

Professional career at UkrSCES since 1992. Responsible for scientific coordination, marine environmental monitoring, ecosystem assessment, research planning, project implementation and international scientific cooperation.

Previous positions within UkrSCES: Director, Deputy Director, Scientific Secretary, Head of Department, Scientific Researcher and Engineer.

University Lecturer Odesa State Ecological University, Odesa, Ukraine | 2005–2017

Teaching in environmental law and control of anthropogenic pressures; contribution to environmental education and professional training.

EDUCATION AND ACADEMIC QUALIFICATIONS

Candidate of Geographical Sciences (PhD equivalent), Oceanology Specialty 11.00.08 – Oceanology | degree awarded 1999
Marine Hydrophysical Institute, National Academy of Sciences of Ukraine, Sevastopol. Postgraduate studies: 1994–1997.

Engineer in Oceanology Odesa Hydrometeorological Institute, Ukraine | 1989–1994
Higher education in oceanology and marine environmental sciences.

Academic title: Senior Researcher

SELECTED PROJECT LEADERSHIP AND PARTICIPATION

BRIDGE-BS — Advancing Black Sea Research and Innovation to Co-Develop Blue Growth within Resilient Ecosystems, H2020, GA 101000240 [2021–2025]
WP1 Co-lead (Knowledge Base for the Black Sea); scientific coordination and Black Sea ecosystem knowledge integration.

Black Sea CONNECT — Coordination of Marine and Maritime Research and Innovation in the Black Sea, H2020, GA 860055 [2019–2023]
Participation in regional research and innovation coordination and implementation of the Black Sea Strategic Research and Innovation Agenda.

EMBLAS-Plus — Improving Environmental Monitoring in the Black Sea – Selected Measures, EC/UNDP [2019–2020]
Marine monitoring, assessment and regional cooperation in the Black Sea.

EMBLAS-II — Improving Environmental Monitoring in the Black Sea, Phase II, EC/UNDP [2015–2018]
Joint and national monitoring, assessment of environmental status and strengthening of monitoring capacity.

Inventory, Assessment and Remediation of Anthropogenic Sources of Pollution in the Lower Danube Region of Ukraine, Romania and the Republic of Moldova [2012–2017]

OCEAN DATA AND INFORMATION MANAGEMENT

Long-standing involvement in the development and operation of Ukraine's marine environmental data infrastructure and in international exchange of oceanographic data and information.

- UkrSCES designated as an IODE Associate Data Unit (ADU) in 2014 and as the National Oceanographic Data Centre (NODC) of Ukraine in 2019.
- UkrSCES became the OBIS Black Sea node in 2016, supporting publication and international exchange of marine biodiversity data.
- Experience in preparing, integrating, quality-controlling and disseminating multidisciplinary marine monitoring datasets and in linking national data activities with international ocean data systems.

SCIENTIFIC OUTPUT

Author/co-author of 2 books, 3 book chapters and more than 60 scientific papers. Research covers marine ecological monitoring, pollution, ecosystem risk modelling, biodiversity, environmental assessment and the impacts of war-related pressures on the Black Sea.

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ADDITIONAL PROJECT EXPERIENCE

UNDP/GEF — Control of eutrophication, hazardous substances and related measures for rehabilitating the Black Sea ecosystem: Phase 1 (RER/01/G33/A/1G/21) [2003–2004]

TACIS Regional Environment Programme — Technical Assistance to the Black Sea Environmental Programme in Russia, Georgia and Ukraine [2004]

TACIS Black Sea 1997/98 Programme — Technical Assistance to the Regional Activity Centre on Pollution Monitoring and Assessment [1998–2000]

Black Sea Environmental Programme (BSEP) [1995–2004]

SELECTED AREAS OF EXPERTISE

- Black Sea environmental monitoring and marine policy support.
- Pollution assessment, eutrophication and ecosystem status assessment.
- Marine biodiversity, ecosystem modelling and environmental risk assessment.
- Ocean data management, FAIR/open data principles and international data exchange.
- International programme coordination, capacity development and science-policy interfaces.

SELECTED PUBLICATIONS

1. **Komorin, V.**; Leposhkin, O.; Titiapkyn, A.; Dykhanov, Y.; Miasnikova, O.; Vyshnevskyi, V.; Oleinik, Y. (2026). War-related pollution in Black Sea coastal waters: Hydrochemistry, priority pollutant profiles and shoreline oil backtracking. *Marine Pollution Bulletin*, 230, 119835. DOI: 10.1016/j.marpolbul.2026.119835
2. **Komorin, V.M.** (2026). Ecosystem risk assessment based on indicators of the structural and functional state of marine biota. *Marine Ecological Journal*, No. 1, 17–24. DOI: 10.47143/1684-1557/2026.1.2
3. Vyshnevskyi, V.; Dykhanov, Y.; **Komorin, V.** (2024). Long-term changes in water level of the northwestern part of the Black Sea. *Geographia Polonica*, 97(4), 473–484. DOI: 10.7163/GPol.0288
4. **Komorin, V.M.** (2024). Mathematical model for managing marine ecosystem risks. *Ukrainian Hydrometeorological Journal*, 33, 49–65. DOI: 10.31481/uhmj.33.2024.04
5. Tuchkovenko, Y.S.; Kushnir, D.V.; Torgonskyi, A.V.; **Komorin, V.M.** (2024). The impact of the destruction of the Kakhovka Reservoir dam on the oceanographic conditions in the north-western part of the Black Sea according to the results of modeling. *Ukrainian Hydrometeorological Journal*, 33, 66–80. DOI: 10.31481/uhmj.33.2024.05
6. **Komorin, V.** (2021). Assessment of the Black Sea shelf ecosystem sustainability with mathematical simulation method. *Geographia Technica*, 16(2), 19–28. DOI: 10.21163/GT_2021.162.02
7. **Komorin, V.**; Dykhanov, Y.; Bolshakov, V.; Popov, Y.; Melnik, E.; Savinykh-Paltseva, L. (2020). Hydrological structure of the waters in the Drake Passage based on the survey of December, 2018. *Ukrainian Antarctic Journal*, No. 1, 29–40. DOI: 10.33275/1727-7485.1.2020.377

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