

VLADYSLAV LYUBARTSEV

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CMCC Fondazione – the Euro-Mediterranean Center on Climate Change Foundation

Regional Ocean Forecasting Division

Viale Berti Pichat, 6/2, 40127 Bologna, Italy

Education:

- Research Scholar in Geophysics, Marine Hydrophysical Institute of National Academy of Sciences of Ukraine (MHI), Sevastopol, Ukraine 09/1987–09/1990
- M.S. in Physics, (Honors) Department of Physics, Lomonosov Moscow State University, Moscow 09/1978–01/1984

Professional Development:

- DIVA workshop. UNIBO, Bologna, Italy 01/2020
- NCL workshop. UCAR NCAR, Boulder, CO US 01/2015
- ArcGIS courses. Istituto Nazionale di Geofisica e Vulcanologia (INGV), Bologna, Italy 11/2008

Professional Experience:

- Research Associate Scientist / CMCC, Bologna, Italy 10/2008–present
- Associate Scientist / INGV, Bologna, Italy 04/2007–09/2008
- Junior Scientist / Database Laboratory, MHI, Sevastopol, Ukraine 07/1987–03/2007
- Research Engineer / Department of Marine Optics and Biophysics, MHI, Sevastopol, Ukraine 04/1984–06/1987

Specialization:

- Design and development of scientific software:
 - oceanographic model output post-processing, validation, evaluation, and dissemination
 - in situ database management systems
 - web interfaces for model outputs and in situ databases
- Applied statistics
- Remote sensing data processing
- Inverse problems in marine and atmospheric optics

Computer Skills:

- **Expert level:** UNIX shell, NCL, Fortran, database applications (MySQL), web applications (JavaScript, PHP, Apache).
- **Intermediate level:** Python, ArcGIS.

Languages:

English; Ukrainian; Russian; Italian (elementary); Turkish (elementary).

Selected Project Activities:

Term	Project/Organization	Individual Task
06/2023–Present	IRIDE	Validation tool for ADRIFS
12/2021–Present	Copernicus Marine Service MED MFC	Provide quality assessment of regularly disseminated information about the physical state of the ocean and marine ecosystems for the Mediterranean Sea
01/2018–03/2021	CMEMS Med MFC Phase 2 / CMCC	Calibration@Validation
07/2015–07/2018	BlackSea Checkpoint / CMCC	Identify, link and use the current observations and modeling efforts contributing to monitor the Black

		Sea and analyze how they can be optimized and deliver the findings through an internet GIS Portal
04/2013–09/2016	GEMINA / CMCC	Development of Web-GIS portal system for access to observational and modeling data
09/2011–03/2013	ADRICOSM-Intermediate Project / Ministry for the Environment, Land and Sea, Italy	Project manager and multidisciplinary database developer
01/2010–12/2012	Indicators for European Environment Agency (EEA) / EEA	Statistical analysis of remote sensing satellite data
01/2009–12/2011	MyOcean MFS Cal/Val system / INGV, CMCC	Processing and analysis of observation data and model outputs for oceanographic model calibration and validation

Teaching Experience:

- Software Instructor, Subject: Environmental Protection Agency (EPA) Water Database, Podgorica, Montenegro 09/2013
- Software Instructor, User Visualization Tool (UVT), Scientific Lyceum ‘E. Mattei’ The Euro-Mediterranean Center on Climate Change, Bologna, Italy 03/2010
- Software Instructor, Oceanographic Data Base Management, Summer School on Combining Ocean Data and Dynamics, Institute of Marine Sciences Middle East Technical University, Erdemli, Turkey 10/2002

Publications:

- h-index: **11**
- Total number of publications (in co-authorship): **58**
- Peer-reviewed publications (in co-authorship): **20**

Selected Recent Publications:

- Pinardi, N., Estournel, C., Cessi, P., Escudier, R., **Lyubartsev, V.**, **2023**. Dense and deep water formation processes and Mediterranean overturning circulation. In: K. Schroeder and J. Chiggiato, Oceanography of the Mediterranean Sea, Amsterdam, Elsevier, pp. 209–262. <https://doi.org/10.1016/B978-0-12-823692-5.00009-1>
- Coppini, G., Clementi, E., Cossarini, G., Salon, S., Korres, G., Ravdas, M., Lecci, R., Pistoia, J., Goglio, A.C., Drudi, M., Grandi, A., Aydogdu, A., Escudier, R., Cipollone, A., **Lyubartsev, V.**, Mariani, A., Creti, S., Palermo, F., Scuro, M., Masina, S., Pinardi, N., Navarra, A., Delrosso, D., Teruzzi, A., Di Biagio, V., Bolzon, G., Feudale, L., Coidessa, G., Amadio, C., Brosich, A., Miro, A., Alvarez, E., Lazzari, P., Solidoro, C., Oikonomou, C., Zacharioudaki, A., **2023**. The Mediterranean Forecasting System—Part 1: Evolution and performance. *Ocean Science* 19, 1483–1516. <https://doi.org/10.5194/egusphere-2022-1337>
- Escudier, R., Clementi, E., Cipollone, A., Pistoia J., Drudi, M., Grandi, A., **Lyubartsev, V.**, Lecci, R., Aydogdu, A., Delrosso, D., Omar, M., Masina, S., Coppini, G., Pinardi, N., **2021**. A high resolution reanalysis for the Mediterranean Sea. *Frontiers in Earth science* 9, 702285. <https://doi.org/10.3389/fmars.2021.741486>
- Federico, I., Pinardi, N., **Lyubartsev, V.**, Maicu, F., Causio, S., Trotta, F., Caporale, C., Coppini G., Demarte, M., Falconieri, A., Lorenzetti, G., Manfè, G., Sepp-Neves, A.A., Zaggia, L., **2020**. Observational evidence of the basin-wide gyre reversal in the Gulf of Taranto. *Geophysical Research Letters* 47, e2020GL091030. <https://doi.org/10.1029/2020GL091030>
- Shahzadi, K., Pinardi, N., **Lyubartsev, V.**, Zavatarelli, M., Simoncelli, S. **2020**. SeaDataCloud Temperature and Salinity Climatologies for the Global Ocean (Version 2). Product Information Document (PIDoc). <https://doi.org/10.13155/77512>
- **Lyubartsev, V.**, Borile, F., Clementi, E., Masina, S., Drudi, M., Coppini, G., Cessi, P., Pinardi, N. **2020**. Interannual variability in the Eastern and Western Mediterranean Overturning Index. In: Copernicus Marine Service Ocean State Report, Issue 4 – K. Von Schuckmann, P.Y. Le Traon, N. Smith, A. Pascual, S. Djavidnia, J.P. Gattuso, M. Grégoire, G. Nolan (eds). *J. Oper. Oceanogr.* 13 Suppl. 1.
- Palazov, A., Slabakova, V., **Lyubartsev, V.**, Pinardi, N., Blanc, F., Moussat, E., **2020**. Sea-basin monitoring system assessment activity to support sustainable growth in the marine and maritime economy, in: Sustainable Development and Innovations in Marine Technologies – Georgiev & Guedes Soares (Eds.), Taylor & Francis Group, London, ISBN 978-0-367-40951-7.