

**Project management experience – Professor DHC, Corresponding Member of the Romanian Academy
Eugen Rusu**

(Academic sector/research institutes/industrial sector/public sector/other. Please list the most relevant.)

Year	Project title - Role – Funder – Budget – link to project webpage
2021-2023	<p>Project title: DREAM, Dynamics of the REsources and technological Advance in harvesting Marine renewable energy, Role: Project director; Funder: UEFISCDI, (Romanian National Agency for Financing Higher Education and Research), PN-III-P4-ID-PCE-2020-0008 Budget: 220000 Eur; Link to project webpage: https://dream.ugal.ro/index_en.php ; <i>Obs: the project was declared the most successful Romanian project of the year (2023) from the point of view of the scientific publications produced.</i></p>
2022-2024	<p>Project title: CLIMEWAR, Climate change impact evaluation on future wave conditions at Regional scale for the Black and Mediterranean Seas marine system Role: Senior scientist; Funder: UEFISCDI, (Romanian National Agency for Financing Higher Education and Research), PN-III-P4-PCE-2021-0015; Budget: 250000 Eur; Link to project webpage: https://climewar.ugal.ro/public/en/</p>
2022-2026	<p>Project title: PLOT0-Improving the Resilience of Inland Waterways against Climate Change Role: Senior scientist in the team of Danubius University, Galati, Romania; Funder: European Commission, H2020 Budget: 8715000 Eur; Link to project webpage: https://ploto-project.eu/</p>
2020-2021	<p>Project title: Climate Change Initiative - Sea State Phase 1, partner “Dunarea de Jos” University of Galati, Romania, Role: Senior scientist. Funder: ESA – European Spatial Agency, Budget: 1300000Eur; Link to project webpage: https://climate.esa.int/en/projects/sea-state/ <i>Objectives: The ultimate objective of SeaState_cci is to develop an 18-year data set (2002-2020) capitalising on the rich satellite altimeter, SAR imager, in situ and other data holdings available during that period. The focus will be on the development, testing and improvement of dedicated sea state retrieval algorithms with respect to climate users' requirements, as compiled at high level by GCOS.</i></p>
2017-2019	<p>Renewable Energy extraction in MARine environment and its Coastal impact - REMARC (PN-III-P4-IDPCE-2016-0017), at “Dunarea de Jos” University of Galati, Romania, Role: Project director; Funder: UEFISCDI, (Romanian National Agency for Financing Higher Education and Research), Budget: 175000 Eur; Link to project webpage: https://remarc.ugal.ro/ <i>Proiectul REMARC își propune să evalueze potențialul de energie refolosibilă și eficiența tehnologiilor curente de extracție în vecinătatea zonelor costiere europene, acordând o atenție specială Mării Negre și zonei litorale românești (The REMARC project proposes to evaluate the potential of renewable energy and the efficiency of current extraction technologies in the vicinity of European coastal areas, paying special attention to the Black Sea and the Romanian coastal area).</i></p>

2017-2019	Assessment of the Climate Change effects on the Wave conditions in the Black Sea – ACCWA (PN-III-P4-IDPCE-2016-0028), at “Dunarea de Jos” University of Galati, Ro, Role: Senior scientist; Funder: UEFISCDI, (Romanian National Agency for Financing Higher Education and Research), Budget:184000Eur; Link to project webpage: https://accwa.ugal.ro/
2013-2016	Data Assimilation Methods for improving the WAVE predictions in the Romanian nearshore of the Black Sea – DAMWAVE (PN-II-ID-PCE-2012-4-0089), at “Dunarea de Jos” University of Galati, Romania, Role: Senior scientist; Funder: UEFISCDI, (Romanian National Agency for Financing Higher Education and Research), Budget: 192000Eur; Link to project webpage: https://damwave.ugal.ro/

Eugen RUSU

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President of the Council of Doctoral Schools, Vice-Rector Galati University 'Dunarea de Jos';
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Included in the world ranking of scientists (2%):

<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6>



EXPLORATORY RESEARCH PROJECT

Financing contract for project execution no. PCE 169 / 2021.

Funding amount: 1.038.490,00 lei. Implementation period: 4 January 2021 - 31 December 2023 (36 months).

https://dream.ugal.ro/index_en.php



EXPLORATORY RESEARCH PROJECT

Financing contract for project implementing no. PCE 12 / 2022.

Budget amount: 1.200.000,00 Ron. Period for implementing: May 9th, 2022 - December 31st, 2024 (32 months).

Project Details

The goal of the CLIMEWAR project is to evaluate the impact of climate changes on the future wave climate in the marine system defined by the Black and Mediterranean seas. A multi-model and multiple-scenario ensemble of the marine system wave climate projections over the last 60 years of the 21st Century will be generated based on the results of the SWAN (Simulating WAVes Nearshore) model forced with Regional Climate Models (RCMs) driven by different boundary conditions, under RCPs and SSPs scenarios. The potential impact of climate change on the future sea state conditions is estimated by performing comparisons with the ensemble of the present wave climate (1976-2005). The present sea state conditions will be compared with observations and reliable hindcast data. The uncertainties associated with wave climate changes will be identified and quantified. Assuming that the statistical properties of the present climate biases are maintained in the future, bias correction methods will be applied to generate a bias-corrected ensemble of the wave climate projections. The future changes of the mean (annual, seasonal, and monthly) and extreme values of the main wave parameters in both basins will be evaluated, together with their variability and trends. Extreme value analysis will be performed in various key locations.

[\(https://climewar.ugal.ro/public/en/\)](https://climewar.ugal.ro/public/en/)