

WEBINAR

19 February 2026 | 10:00 - 11:00 EET

Climate Change Impacts and the Power of Weather Routing Optimization

10.00 - 10.30 **Climate Change
Impacts on Shipping**

10.30 - 11.00 **Weather Routing
Optimization**

Addressed to crew officers (deck & engine) and office personnel of HELMEPA Member companies

Level of knowledge

**Beginner to
Intermediate**

Participants will receive a HELMEPA Academy Certificate of Attendance

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WEBINAR LECTURER



Prof. Nikos
MAZARAKIS

Marine
Meteorologist

Prof. Nikos Mazarakis is a distinguished expert in Marine Meteorology, currently serving as Visiting Professor at Uninettuno University / Institute for International Maritime Studies and as General Office Manager of the Greek Office of StormGeo (Alfa Laval Group). With over 20 years of teaching experience, Dr. Mazarakis has trained more than 6,000 deck officers in Marine Meteorology across five countries. His seminars have been delivered to leading Greek shipping companies. He previously served for seven years as a professor at the School of Training Merchant Marine Officers of Piraeus (KESEN), and from 2003 to 2017, he held the position of Research Associate at the National Observatory of Athens, where he made a significant contribution to more than ten scientific research projects. Earlier in his career, he was active in the Greek media, contributing to national newspapers, radio stations, and television networks.

Climate Change Impacts and the Power of Weather Routing Optimization

2026 REFRESHER TRAINING PROGRAM
From our members for our members

LEARNING OBJECTIVES

During this engaging 60-minute workshop participants will explore how climate change is already disrupting maritime operations through rising sea levels, stronger hurricanes, extreme temperatures, and droughts. Real-world examples will highlight the growing vulnerability of shipping infrastructure and global supply chains.

Following, weather routing will be presented as a vital adaptation strategy explaining the principles of weather-based route planning and its role in reducing emissions, fuel consumption, and voyage risks.

LEARNING OUTCOMES

By the end of this workshop, participants will be able to:

- Understand the key physical and operational impacts of climate change on global shipping
- Analyze real-world case studies of climate-related disruptions
- Recognize the growing compliance demands on ship crews and management teams
- Appreciate the value of weather routing optimization in reducing GHG emissions and enhancing voyage efficiency
- Gain practical insights into optimization techniques for planning safer, more efficient voyages while avoiding extreme weather and high seas