

39th IFSMA AGA

Marcel van den Broek

Assistant General Secretary

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Project Horizon, A wake-up call

- Define and undertake scientific methods for measurement of fatigue in various realistic seagoing scenarios using bridge, engineroom and cargo simulators
- Capture empirical data on the cognitive performance of watchkeepers working within those realistic scenarios
- Assess the impact of fatigue on decision-making performance
- And determine arrangements for minimising risks to ships and their cargoes, seafarers, passengers and the marine environment

MARTHA

Fatigue management toolkit

Developed by the Project Horizon researchers, the prototype maritime fatigue prediction tool MARTHA is intended to provide practical guidance for seafarers, ship-owners and operators, port state and flag authorities, regulators and other relevant bodies covering:

- the nature of fatigue or sleepiness at sea
- pointers to aid recognition of such conditions
- measures by which mitigation of them might be achieved
- concrete indications how the conditions might be avoided at source and the findings of the project might be applied.

MARTHA

It is a computer-based system that provides an interface with selectable watch schedules and a 'do-it-yourself' watch system facility.

Users will be able to enter their working schedules over a six-week period and receive predicted estimates of the most risky times and the times of highest potential sleepiness for each watch and for the whole watch schedule, as well as for time outside watch duty.

MARTHA

MARTHA could be used on board during voyage planning to develop watch systems that are efficient and that minimise risk.

Shipping companies can use the system when planning voyage schedules and the size of the crew.

The tool could also yield important International Safety Management Code benefits, as part of Fatigue Risk Management Systems and might be used for insurance and classification purposes.

Finally Martha could also assist flag states and port state control authorities, enabling solid documentation if, for instance, a ship is to be detained in order to let the crew rest before the voyage is resumed.

Where to go from here?

Nautilus International would highly welcome the active, professional involvement of all IFSMA's National Association members in disseminating the outcome of the Project Horizon study to their member shipmasters, national administration, port state and flag state authorities and national ship-owners. While contacting the aforementioned parties, the National Associations are specifically invited to make use of the MARTHA prototype maritime fatigue prediction tool



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MARTHA

Welcome to MARTHA - a prototype maritime fatigue prediction tool. It must be emphasised that this is only a prototype and should only be used for testing purposes - we hope in due course it may be supplied as a fully commercial package.

You are welcome to download it and use it as part of an evaluation of this software. However, if you do, we would be grateful if you complete an [evaluation feedback form](#) and send it to: mike.barnett@solent.ac.uk. We will take these points into consideration. Thank you.

To download the software and associated documents, please [click here](#) [zip file].

MARTHA Description

[MARTHA - Guide for beginners Part 1](#)

[MARTHA - Guide for beginners Part 2](#)

[MARTHA - Feedback Form](#)

What people are saying

"I look forward to using your services again next season as the training has certainly made a difference and is clearly something that Yacht Charter companies should be investing in for their crew."

Graham Stephenson
Owner representative

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