

SHIPMOOR is an easy to use browser-based mooring analysis tool. Its calculation engine has been used internally for over 40 years by HR Wallingford to conduct ship mooring projects all over the world. The web version of the tool allows users to validate the mooring arrangement of a berthed ship quickly and more accurately than ever before.





Why choose SHIPMOOR?

- No installation required. Log in from any PC, Mac or Linux computer with an internet connection.
- Easy to use
- Secure data storage and sharing
- Results validated against OCIMF Mooring
 Equipment Guidelines
- Prepopulated LNG terminal and ship data
- Static and <u>fully dynamic</u> mooring analysis



Browser-based tool

SHIPMOOR is an online portal that does not require installation on local machines. It allows secure storage of ship and terminal information in a central database that can be shared with industry partners when appropriate.

There is only <u>one</u> copy of a ship or berth that everyone is using, so the most up-to-date information is always provided. The built-in validation steps help users to minimise data entry errors.

The mooring line and fender data are prepopulated from manufacturer catalogues, or from custom data if required.

Static Mooring Analysis

Mooring arrangement

Using the mooring tool is intuitive and requires little time to learn: the selected ship and berth are displayed in a 3D environment and all the mooring points and fairleads are clearly visible. This helps to highlight issues with the mooring configuration. Any adjustment can be made directly in the 3D environment.

The external conditions – current, wind and waves – are also shown.

Instant results

The results of static calculations are displayed instantly in the 3D environment using colour-coded representations for the tensions in the mooring lines, the loads in all mooring equipment and the fender contact areas.

www.shipmoor.com

The results can also be sent out by email as PDF reports.

Reports

A variety of reports are available: overview and detailed reports for a specific case, wind limit and OCIMF criteria reports and batch calculations.



with 3 knots of current at 180° (bow)



SHIPMOOR

nalysis for the 21st Century



FAILED

60 knots of wind from any direction with 2 knots of current at 010°





Dynamic Mooring Analysis

Fully dynamic 3-hour time domain simulation

The dynamic analysis is based on a 3-hour time domain simulation. Until recently, it was impossible to carry out such a task on a single user computer due to the required computation processing power. However, these calculations can now be done within minutes using large numbers of high-performance computing units in datacentres belonging to Microsoft Azure Cloud.



Detailed dynamic report

The detailed report contains the results of the analysis, including minimum, significant and maximum values for ship motions and rotations. The report also includes the ship manifold displacement, the loads on the mooring lines and the forces applied to the quick release hooks, bollards, deck winches and fenders.

Time series

The time series displays the changes in ship motions, mooring line loads and fender forces over a simulation period of 3 hours.



For more information, including SHIPMOOR quick-start guide, demos and trial requests, please visit our website: www.shipmoor.com

Or contact our SHIPMOOR team directly via email: info@shipmoor.com

You can also visit SHIPMOOR YouTube channel where various tutorials and introductory videos can be found: www.tinyurl.com/shipmoorvideos







Witherbys publishes operational guidance and technical standards for the shipping industry. It works in collaborative partnership with a number of key industry bodies.

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