



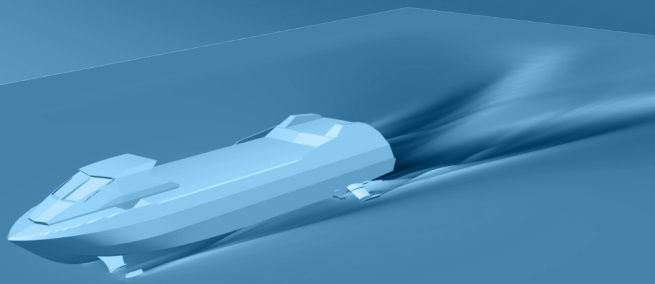
## CLOUD TOWING TANK

Cloud Towing Tank is a Computational Fluid Dynamics (CFD) service specialised for problems in ship hydrodynamics. Our main goal is to offer ship designers and shipowners a reliable, versatile, and responsive service for getting access to information such as ship resistance, propulsion power, Energy Saving Device performance, Trim optimization data and more.

### CFD for Ship Design

We deliver ship resistance and self-propulsion data within a few days.

Get access to data early in the project in an easy way.

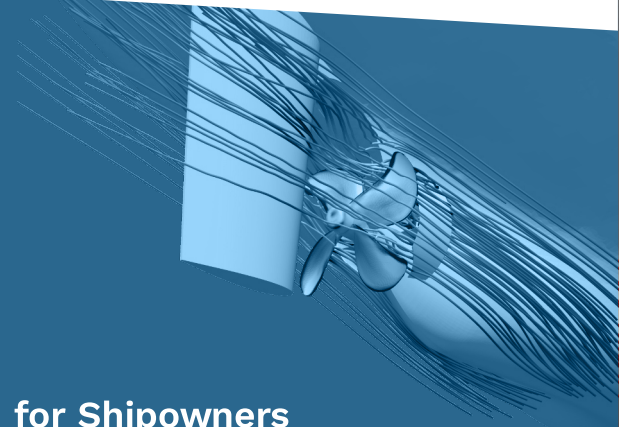


#### For more information contact:

✉ [info@cloudtowingtank.com](mailto:info@cloudtowingtank.com)

🌐 [www.cloudtowingtank.com](http://www.cloudtowingtank.com)

☎ +385 98 973 4778



### CFD for Shipowners

We offer the most high-fidelity simulations of Energy Saving Devices, enabling you to make the right decision for the fraction of the cost of the ESD.

Turnkey trim optimization solution integrated with class-approved loading software:

LoadMaster

**KOCKUMATION**  
Kockumation Dynamics AS

CargoMAX

**Herbert-ABS**  
Software Solutions LLC

“

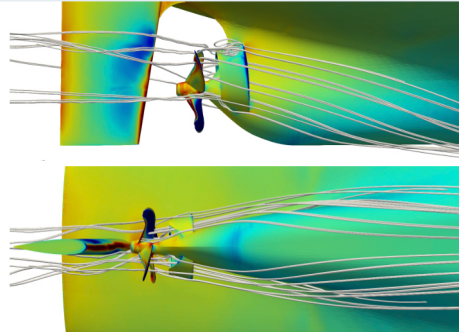
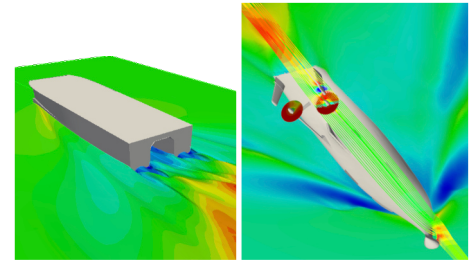
Cloud Towing Tank are experts in their field, easy to communicate with and deliver fast results. I give them my highest recommendations.

”

Eirik Bøckmann, Wavefoil AS, Norway

## Calm water resistance and self-propulsion

Ship resistance and self-propulsion in calm water can be calculated for any vessel at any speed, including displacement, semi-displacement, planning, hydrofoil and multi-hull vessels. The results are delivered within a few days.

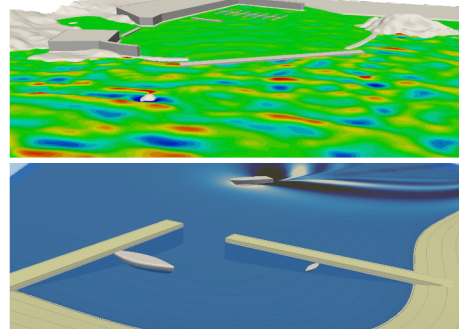
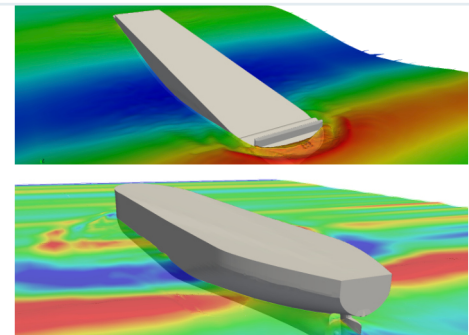


## Propeller-hull interaction and ESD performance prediction

ESD simulations include detailed propeller geometry, enabling accurate prediction of complex propeller-hull interaction and efficiency of an ESD.

## Added resistance in waves and wave loads

Our software enables easy evaluation of added wave resistance or powering in irregular or regular waves, together with motions for comfort and acceleration loads. Wave loads in extreme weather are also available.

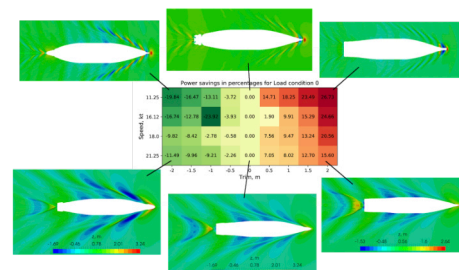
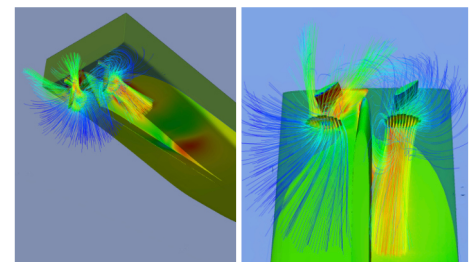


## Marinas and ports: wave propagation and loads

Simulations including realistic wave conditions can be used to assess the effectiveness of wavebreakers and piers of ports and marinas. The simulations include motions of moored floating objects. Waves can be wind and/or ship-generated.

## Manoeuvring

We offer standard manoeuvring simulations such as turning circle manoeuvre, as well as special cases such as crabbing, zero initial speed manoeuvre forward or aft, and similar. Arbitrary combinations of rudder deflection and propeller thrust direction can be prescribed. Thrusters are also supported.



## Trim & draft optimisation

We generate a large database of required propulsion power depending on speed, draft, and trim. The data can be fed into a loading software, offering unprecedented convenience and automatic optimization/ballasting process.