

<b>Name of organization</b> LabOceano, Brazilian Ocean Technology Laboratory		<b>Year of information updating</b> 2022
<b>Year established</b> 2003		<b>Year of joining the ITTC</b> 2008
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<b>Type of facility</b> Maneuvering Simulator	<b>Year constructed/upgraded</b> 2015	
<b>Name of facility</b> LabOceano Maneuvering Simulator	<b>Location</b>	

**Main characteristics**

Part-task maneuvering simulator composed by two integrated rooms with screen visualization systems.

**Drawings of facility**



## Detailed characteristics

### Simulation Room 1

- 7 screens with 55", with a total field of view of 227.4°
- 2 touch screen monitors for easy integration with controllers of different types of vessels in digital format.
- 7 displays with ECDIS, radar, CCTV, console, speed log, GPS, rate of turn, compass, echo-sounder.
- Girocompass repeater and rudder repeater.
- Integrated with the others maneuvering simulators rooms
- Commands for rudder and fixed or controllable pitch propellers
- Commands for tunnel and azimuth thrusters
- Alarms

### Simulation Room 2

- 7 screens with 55", totaling a field of view of 180°
- 2 touch screen monitors for easy integration with controllers of different types of vessels in digital format.
- 5 displays with ECDIS, radar, CCTV, console, speed log, GPS, rate of turn, compass, echo-sounder.
- Girocompass repeater and rudder repeater.
- Integrated with the others maneuvering simulators rooms
- Commands for rudder and fixed or controllable pitch propellers
- Commands for tunnel and azimuth thrusters
- Alarms

### Operation

The simulator consists of three rooms, two intended for simulation that can work as two vessels interacting in the same scenario or two different simulations for other types of training.

Both simulations are controlled by an instructor through the third room.

The instructor panel offers the option to create different types of situations involving weather, wave conditions, vessel failures and others.

### Applications

Real and fast time simulations of different scenarios such as oil spill recovery, berthing in different ports etc.

### Published description

[www.laboceano.coppe.ufrj.br](http://www.laboceano.coppe.ufrj.br)