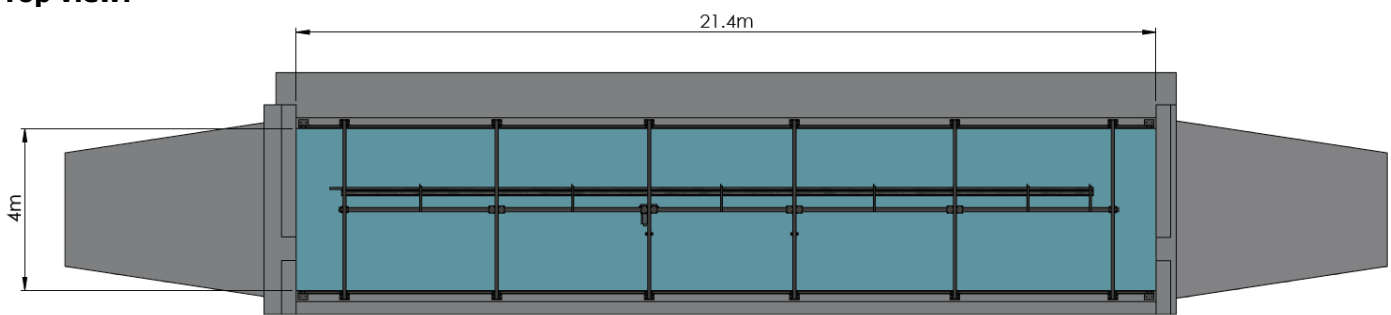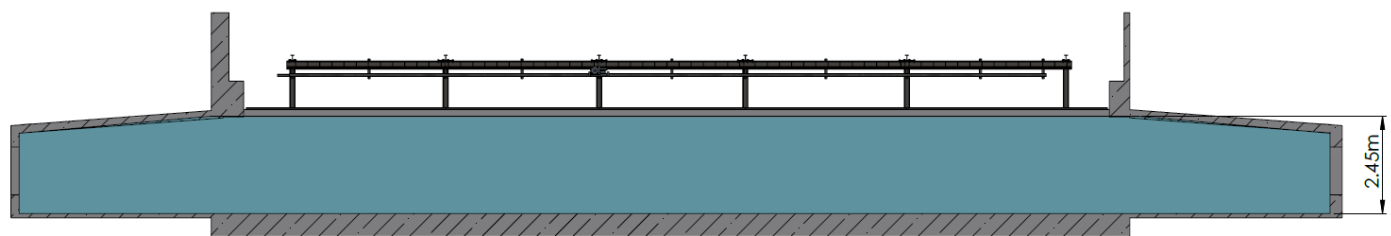| Name of organization LabOceano, Brazilian Ocean Technology Laboratory	Year of information updating 2022
Year established 2003	Year of joining the ITTC 2008
Address Rua Paulo Emídio Barbosa, 485 Quadra 07-A, Parque Tecnológico da UFRJ Rio de Janeiro, ZIP Code: 21941-907	Status in the ITTC Advisory Council Member
Contact details comercial.laboceano@oceanica.ufrj.br https://www.linkedin.com/company/laboceano	Website www.laboceano.coppe.ufrj.br

Type of facility Free Surface Circulating Water Channel	Year constructed/upgraded 2003/2018
Name of facility LabOceano Circulating Water Channel	Location (if different from the above address)

Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)

Main Dimensions:
Length: 21.40 m; Width: 4.00 m; Depth: 2.45 m

Drawings of facility

Top view:

Lateral view:

Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)

Current Velocity: Maximum mean speed of 1.1 m/s.

Towing system: Towing system for run tests with maximum speed of 1.0 m/s.

Instrumentation:
- Data acquisition system up to 192 channels; max. sample rate up to 2 MHz, resolution up to 18 bits;
- 6 component force balances;
- Wave height transducers;
- Mooring load sensors;
- Pressure sensors, acceleration sensors;
- Current sensor (3D);
- Photo, video, underwater video;
- Qualisys system (optical tracking);
- Underwater Qualisys system (optical tracking).

Applications (Tests performed)
- Towing tests for determination of hydrodynamic coefficients;
- Vortex-induced Vibrations experiments;
- Tests of offshore operations (launching of platforms, equipments, manifolds etc);
- Tests of subsea equipment and installations.

Published description (Publications on this facility)
- www.laboceano.coppe.ufrj.br
-