


Name of organization LabOceano, Brazilian Ocean Technology Laboratory		Year of information updating 2022
Year established 2003		Year of joining the ITTC 2008
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Contact details comercial.laboceano@oceanica.ufrj.br https://www.linkedin.com/company/laboceano		Website www.laboceano.coppe.ufrj.br
Type of facility 6DoF Platform	Year constructed/upgraded 2010	
Name of facility LabOceano 6DoF Platform	Location (if different from the above address)	
Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)		
<p>Model: Bosch Rexroth EMotion-1500-6DOF-800-MK2 Actuator stroke: 800 mm Settled height: 1392 ± 5 mm Payload:</p> <ul style="list-style-type: none"> - Mass: 1500 kg - Ixx = 2023 kg.m² - Iyy = 3713 kg.m² - Izz = 3611 kg.m² <p>Motion Platform Characteristics:</p> <ul style="list-style-type: none"> - Shape: triangular - Dimensions: length approx. 1.5 m, Width approx. 1.8 m - Stiffness: no resonance below 5 Hz. - Weight: approx. 120 kg. 		
Drawings of facility		
		

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

Operational Limits for Non-Simultaneous Excursions

Surge	0.716 m	-0.602 m
Sway	0.603 m	-0.603 m
Heave	0.407	-0.422 m
Roll	27.45 deg	-27.45 deg
Pitch	27.10 deg	-24.35 deg
Yaw	39.20 deg	-39.20 deg

Operational Limits for Non-Simultaneous Velocities

Surge	±0.8 m/s
Sway	±0.8 m/s
Heave	±0.6 m/s
Roll	±40.0 deg/s
Pitch	±40.0 deg/s
Yaw	±50.0 deg/s

Operational Limits for Non-Simultaneous Accelerations

Surge	±0.65 g
Sway	±0.60 g
Heave	±0.60 g
Roll	±300.0 deg/ s ²
Pitch	±300.0 deg/ s ²
Yaw	±300.0 deg/s ²

Applications (Tests performed)

- Test of MRU sensors;
- Sloshing tests;
- Inertia and CoG measurements.

Published description (Publications on this facility)

- www.laboceano.coppe.ufrj.br
- <https://bityli.com/VtxAV>
- <https://bityli.com/krktJ>
- <https://bityli.com/VUbsm>
- <https://bityli.com/cYAFA>
- <https://bityli.com/iXwSP>