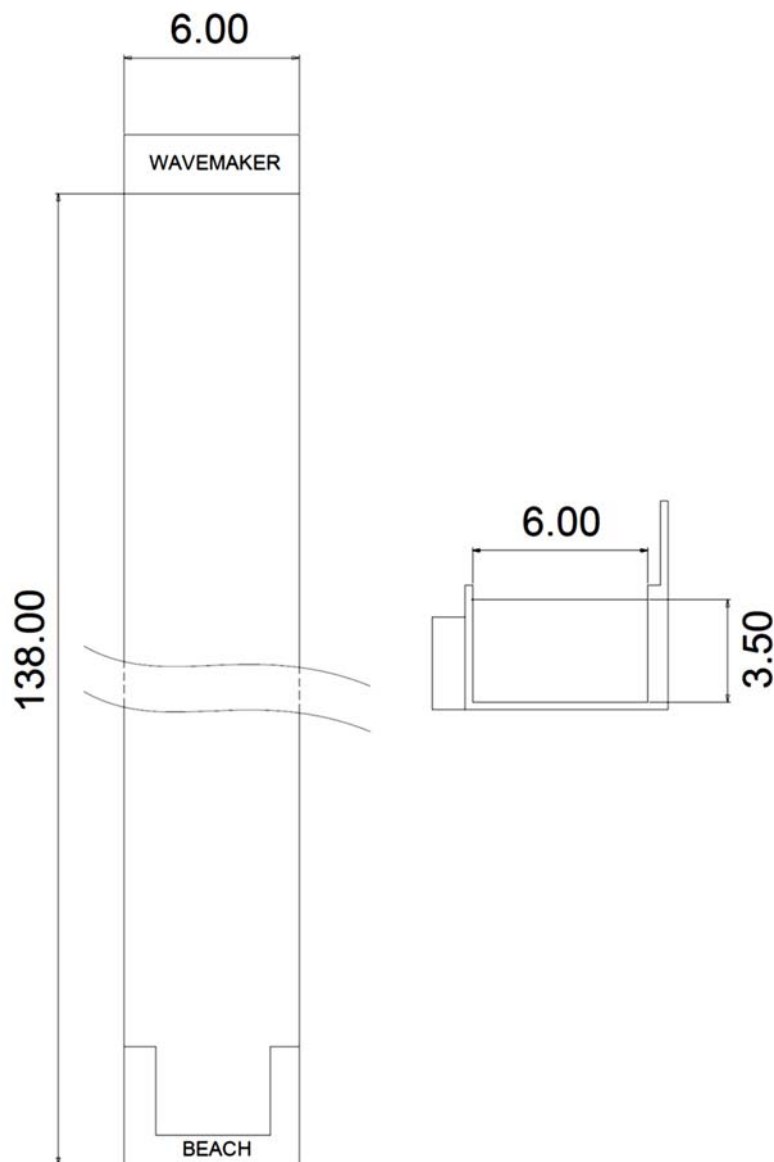


Name of organization University of Southampton		Year of information updating 2016
Year established 2016		Year of joining the ITTC 1990
Address Building 185 University of Southampton Boldrewood Campus, Burgess Road, Southampton, S016 7QF United Kingdom		Status in the ITTC Member
Contact details (phone, fax, e-mail) Bertrand Malas Towing Tank Manager b.b.malas@soton.ac.uk +44 (0) 2380 591 993		Website www.southampton.ac.uk/towingtank (not yet operational but should be soon)
Type of facility Towing Tank	Year constructed/upgraded 2016	
Name of facility Hydroscience (Lab 5)	Location (if different from the above address)	
Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) 138.0 x 6.0 x 3.5 (m)		

Drawings of facility



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

- Monocoque aluminium carriage with dual cable drive system, top speed 12 m/s;
- Hinge wavemaker with 12 independent paddles, able to generate:
 - Regular waves up to 0.70 m height;
 - Irregular waves up to 0.35 m height;
 - Focused waves;
 - Straight and oblique waves.
- Ultrasonic wave probes;
- Resistance / Side Force / Yaw Moment dynamometer;
- PIV and LDV system;
- 12 camera Motion capture system, both above water and under water;
- Rising floor platform;
- Automatic side beach.
- Manned, unmanned and fully autonomous operation.

Applications (Tests performed)

- Resistance;
- Propulsion;
- Seakeeping / Ship Motions;
- Wake Survey;
- PIV/LDV/Motion capture;
- Open water ;
- Offshore structures;
- Wave and Tidal Energy Devices.
- Underwater vehicles

Published description (Publications on this facility)

Tbc