

INTERNATIONAL TOWING TANK CONFERENCE CATALOGUE OF FACILITIES
TOWING TANKS, SEAKEEPING AND MANOEUVRING BASINS

AUSTRALIAN MARITIME COLLEGE

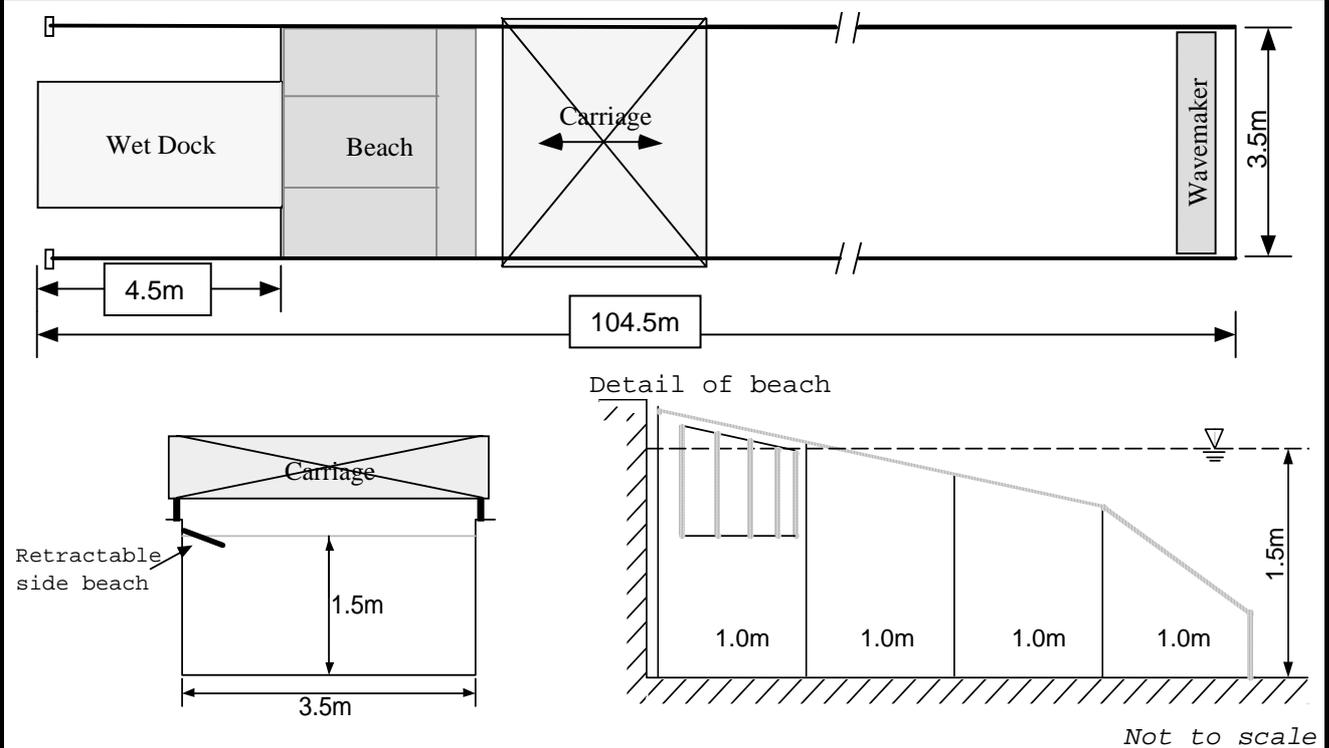
AUSTRALIA

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TOWING TANK (1982)



DESCRIPTION OF CARRIAGES: One manned, motor driven

TYPE OF DRIVE SYSTEM AND TOTAL POWER: 4 wheel synchronous motor drive, modified Siemens, 15.6kW, controlled by digital converter with PLC

MAXIMUM CARRIAGE SPEED: 4.6 m/s

OTHER CAPABILITIES: horizontal PMM can be fitted

WAVE GENERATION CAPABILITY: regular, length 0.4 - 6.5 m. slope 1-10 deg.

WAVEMAKER TYPE AND EXTENT: single flap hydraulic wave paddle, 3.5 m

BEACH TYPE AND LENGTH: corrugated surface beach with multiple vertical baffles, 4 m

METHOD OF IRREGULAR WAVE GENERATION: digitally filtered white noise, or summation of sine waves

OTHER CAPABILITIES: solitary waves, user defined sequences

INSTRUMENTATION: Digital PC computer with in-house data acquisition and analysis software, custom signal conditioner and A/D converter, 32 channel capability at nominal 200Hz sample rate

MODEL SIZE RANGE: ship lengths from 1.0 m to 2.5 m
floating structures up to 1.0 m diameter

TESTS PERFORMED: resistance in calm water and waves.
wave induced motions on ships and floating structures.
upright and heeled sailing yacht tests.
hydrodynamic forces on submerged bodies etc.

PUBLISHED DESCRIPTION: