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

Australian Maritime College			AUSTRALIA
LOCKED BAG 1395			
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MODEL TEST BASIN (2001)			
Beach	W	avemaker	
	Variable Depth 0 to 1.0m		12m
4	35m		
		F1	Not to scale
DESCRIPTION Of CARRIAGES: One lightweight unmanned, winch motor driven			
TYPE OF DRIVE SYSTEM AND TOTAL POWER: winch cable driven, controlled by digital converter with PLC			
MAXIMUM CARRIAGE SPEED: 3.8 m/s			
OTHER CAPABILITIES:			
WAVE GENERATION CAPABILITY: regular and irregular.			
WAVEMAKER TYPE AND EXTENT: multi-element (16), piston type, 12.0 m			
BEACH TYPE AND LENGTH: corrugated surface beach with multiple levels, adjustable height/slope beach, both 12m wide. Additional adjustable wave damping panels, 12m wide. Removeable side beaches			
METHOD OF IRREGULAR WAVE GENERATION: digitally filtered white noise, or summation of sine waves			
WIND GENERATION: portable wind generator consisting of 20 individually controlled fans			
OTHER CAPABILITIES: short-crested waves, solitary waves, user defined sequences			
INSTRUMENTATION: Qualisys digital video 6DOF motion measurement system, 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 1.5 m to 6.5 m floating structures up to 4.0 m diameter			
TESTS PERFORMED: experiments in finite water depths. far field waves and wash. wave induced motions on ships and floating structures.			
SHIP-SHIP AND SHIP-DANK INTERATIONS.			
LODITOURD DROCKILITON.			