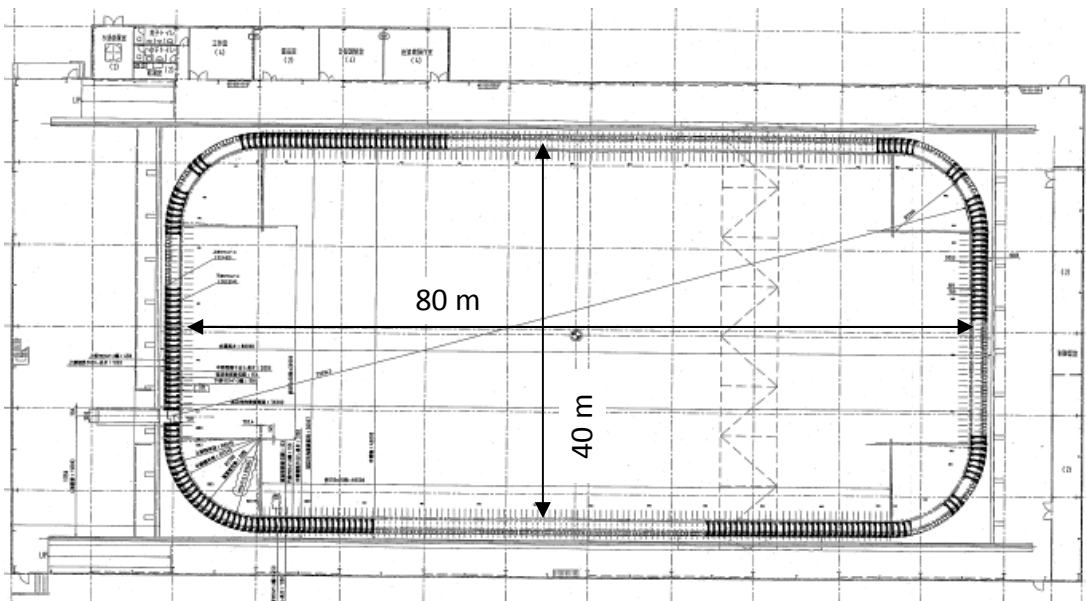


<b>Name of organization</b> National Maritime Research Institute		<b>Year of information updating</b> 2016
<b>Year established</b> 2001 (1916 established as the Ship Equipment Inspection Station)		<b>Year of joining the ITTC</b>
<b>Address</b> 6-38-1, Shinkawa, Mitaka, Tokyo 181-0004, Japan		<b>Status in the ITTC</b>
<b>Contact details</b> (phone, fax, e-mail) [FAX] +81-422-41-3258 [E-mail] <a href="mailto:info2@nmri.go.jp">info2@nmri.go.jp</a>		<b>Website</b> <a href="http://www.nmri.go.jp/english/research_facilities.html">http://www.nmri.go.jp/english/research_facilities.html</a>
<b>Type of facility</b> Actual Sea Model Basin	<b>Year constructed/upgraded</b> 2010	
<b>Name of facility</b> Actual Sea Model Basin	<b>Location</b> (if different from the above address)	
<b>Main characteristics</b> (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) Length 80m Width 40m Depth 4.5m X-Y towing carriage, Wave generators around The Entire periphery of the basin, Wind generator		
<b>Drawings of facility</b>		
<p>Top-view plan</p> 		
<b>Detailed characteristics</b> (carriages, wave/current/wind generators, instrumentations, etc.)		
TOWING CARRIAGES : XYΦ carriage	Main Carriage : 8 Wheel 8 Motor Drive, Max Speed 3.5m/s Sub Carriage : 4 Wheel 4 Motor Drive, Max Speed 3.0m/s Turn Table : Max Speed 36 deg/s Drive Mode : Manual, Auto(Straight, CMT, PMM, Oscillation) Tracking, User Program, External Input	
Wave Generators	Segmented Flap Type Absorbing Wave Maker, 382 units Capability : Wave Period 0.43 – 4.0 sec, Max Wave Height 0.35 m Mode : Regular, Long-crested Irregular, Short-crested Irregular, Absorbing, User Program	
WIND BLOWER	Coaxial Fan Max 8m Width (4m unit + 2m unit x 2) Capability : Steady and Fluctuating Wind, Max Wind Speed 10.0m/s	

**Applications** (Tests performed)

Model Size Range : Ship Length from 2 to 4.5m

Test Performed : Tests can be performed at Actual Sea Conditions

(1) Propulsion Tests

(2) Seakeeping, Wave Load and Wave Impact Load Tests

(3) Manoeuvring Tests

(4) Dynamic Stability and Capsizing Tests

**Published description** (Publications on this facility)

Actual Sea Model Basin, Papers of NMRI, Vol.10, No.4, 2011