Name of organization Bulgarian Ship Hydrodyna	mics Year of information updating 2016
Centre	
Year established 1976	Year of joining the ITTC 1975
Address	Status in the ITTC
Bulgaria, Varna 9003, William Froude Str. 1	AC member
Contact details (phone, fax, e-mail)	Website
Phone +35952370501; Fax +35952370514;	www.bshc.bg
e-mail: office@bshc.bg	
Type of facilityYeSEAKEEPING AND MANOEUVRING TANK19	ear constructed/upgraded 979
Name of facility Lc SEAKEEPING AND MANOEUVRING TANK	ocation (if different from the above address)
Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) Length – 60 m Width - 40 m Depth - up to 2.5 m	
Drawings of facility	
Top-view plan	
Corss-section-view plan	
PLAN	SECTION
WAVEMAKER	
STRUCTURAL STEEL	
SKETCH DF BEACH	
BEACH	
40 m 5 m 2.7 m	

Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.) Wave maker for regular and irregular waves with electrical motor drive system Wave length - up to 10 m Wave height - up to 0.3 m Max. Ship models length - 4 m Wave breakers - flat grid sections at different angles High Precision PC based Programmable control system with remote radio-control for free-running models Instrumentation: Model tracking system - ultrasonic computerized Wave probes for wave measurement Rate gyros, course gyro Set of force dynamometers Set of pressure transducers **Accelerometers** 6-DOF Motion measurement system (MOTAN 6A) PC Network for measurements and control of the tests in seakeeping - maneuvering basin Propeller dynamometers for ship models Instrumentation Amplifiers with Filters Measuring System - PC with NI Multifunctional DAQ Cards and Data Acquisition software based on LabView Cameras for High Quality Video and Photo Documentation of the Experiments Applications (Tests performed) Experimental prediction of ship behavior in waves Model tests on offshore structures Model tests on mooring systems • Model tests on non-standard floating units Free running model tests of mono- and multi-hull vessels • Restricted water 4-quadrants maneuvering, including shallow water, channels, locks etc. . Maneuvering and course keeping in waves Assessment of vessel's maneuverability compliance with IMO standards

Published description (Publications on this facility)

- 1. BSHC Brochure, last edition 2014
- 2. Proceedings of the Scientific Session dedicated to the 40-th Anniversary of BSHC, October 2016