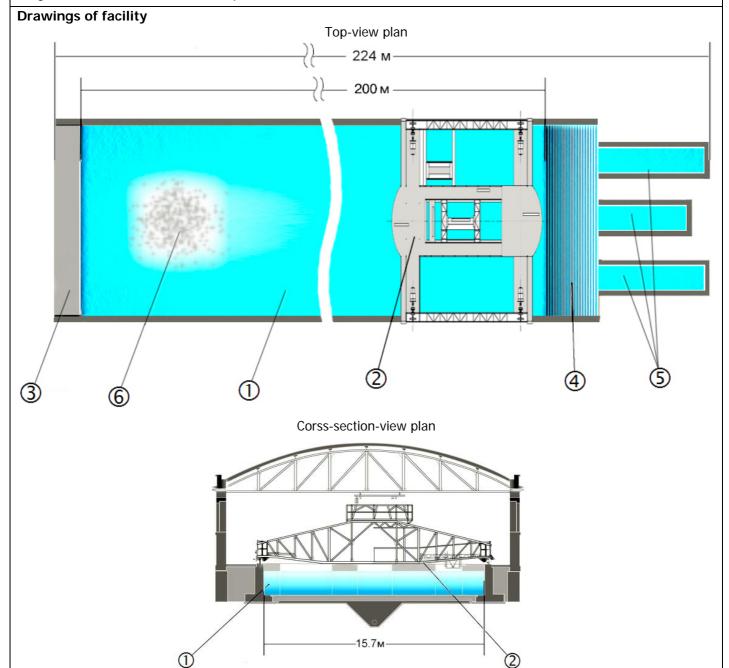
Name of organization Krylov State Research Centre	Year of information updating 2016
Year established 1894	Year of joining the ITTC 1955
Address 196158 St. Petersburg, Russia, 44, Moskovskoye shosse.	Status in the ITTC member organization
Contact details (phone, fax, e-mail)  phone: +7 (812) 415-49-41  fax: +7 (812) 415-49-41  e-mail: 10_otd@ksrc.ru	Website www.krylov-center.ru

Type of facility Shallow-water tank	Year constructed/upgraded 1959
Name of facility Shallow-water model basin	Location —

**Main characteristics** (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top) Length - 224 m, Width - 15.7 m,  $Depth - 0 \div 1.75 m$ ; for simulators: full mission



1 - the basin channel; 2 - manned carriage; 3 - wave generator; 4 - wave absorber; 5 - docks; 6 - sandy bottom simulation.

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

Description of carriage: manned carriage

Maximum carriage velocity: 5.8 m/s;

Is available wave generator: Height of waves 0,025 ÷ 0,2 m;

Length of waves  $1,5 \div 10,0 \text{ m}.$ 

The sizes of tested models: Length (surface models) 1.5 ÷ 11 m.

Diameter of propellers 0.1 ÷ 0.35 m

## **Applications** (Tests performed)

- 1. Towing & self-propulsion model tests on ships operating in shallow waters.
- 2. Towing & self-propulsion model tests of ships and marine structures in head waves.
- 3. Towing & self-propulsion model tests of ships at large drift angles.
- 4. Measurement of nominal flow velocity fields in propeller disk and hull wake.
- 5. Model tests of various propulsion systems in open water.
- 6. Investigation of seabed scour near substructures of marine drilling rigs under combined effects of waves, currents and propeller slipstreams from approaching vessels.

Published description (Publications on this facility)

\_