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Name of organization SINTEF Ocean (formerly MARINTEK)	**Year of information updating** 2017
Year established 1939	**Year of joining the ITTC**
Address Otto Nielsens Veg 10, P.O.Box 4762 Sluppen, 7465, Norway	**Status in the ITTC** Member Advisory Council
Contact details (phone, fax, e-mail) Phone: +47 464 15 000 Fax: +47 7359 5776 E-mail: Ocean@sintef.no	**Website** www.sintef.no/ocean
Type of facility Ocean basin	**Year constructed/upgraded** 1980
Name of facility Ocean laboratory	**Location** (if different from the above address)

Main characteristics (dimensions of tank/basin/test section; for simulators: full mission, part task or desk top)
Length: 80 m, Width: 50 m, Depth: 0-10 m

Drawings of facility

Top-view plan

Corss-section-view plan

Cross-section of Ocean Basin
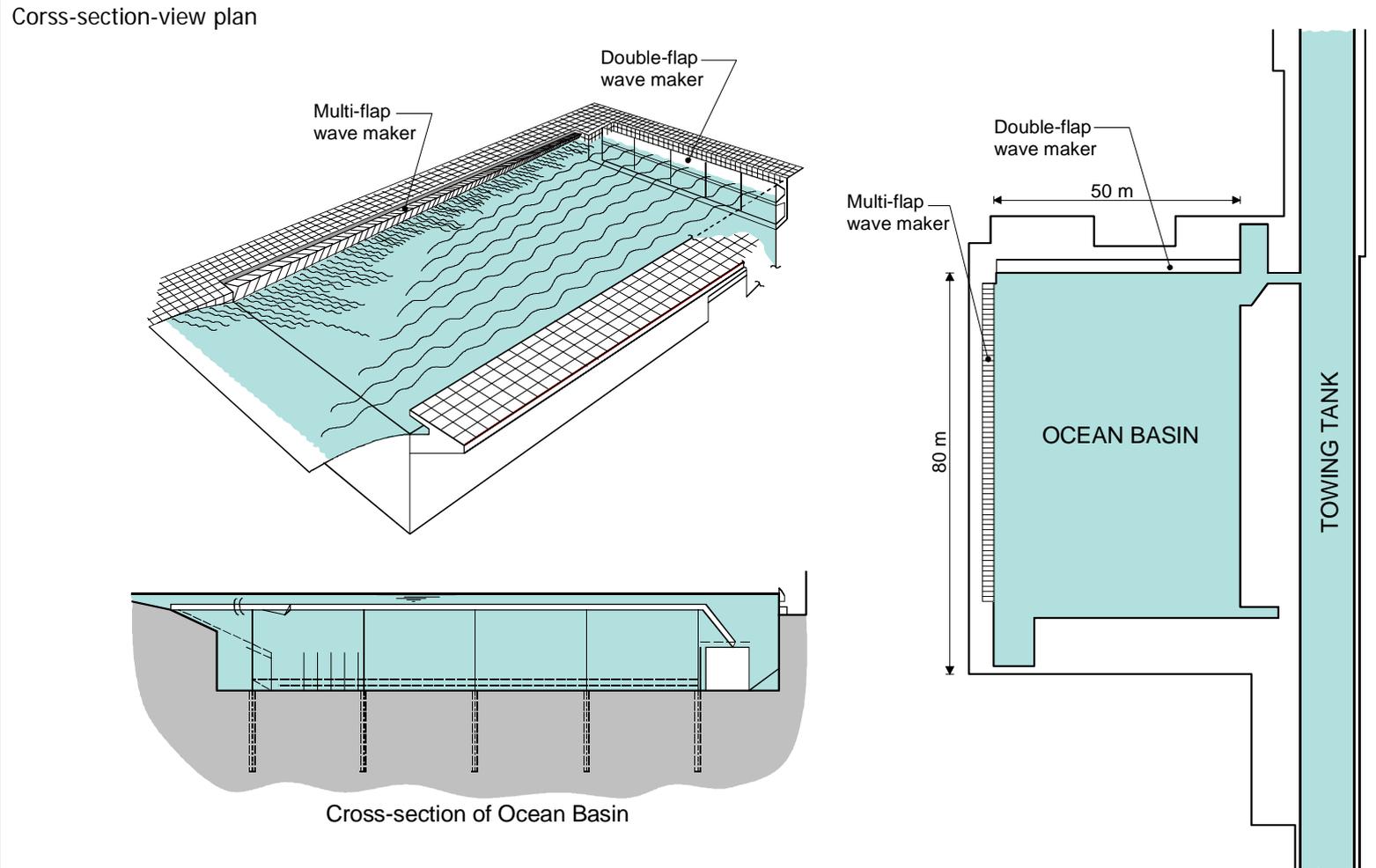
Detailed characteristics (carriages, wave/current/wind generators, instrumentations, etc.)
The carriage system follows free running models with no constraints at speed up to 5 m/s, at any heading to the waves.
Hinged double flap wave maker on short side
Regular waves.
Maximum wave height: 0.9 m
Wave periods: 0.8 s and above.
Wave spectra: Maximum HS: 0.5 m
TP from 0.8s and above

Multiflap wave maker on long side
Hinged single-flap type. 144 individually controlled flaps.
Regular waves: Maximum wave height: 0.4 m
Wave periods: 0.6 s and above.
Wave spectra: Shortcrested or longcrested waves of specified direction.
Maximum HS 0.2 m
TP from 0.7s and above.

Maximum current velocity in wave surface:
0.25 m/s at 2 m. water depth
0.20 m/s at 5 m. water depth

Applications (Tests performed)
Seakeeping
Ship manoeuvring
Fixed offshore structures
Shallow water problems
Mooring and DP systems
Offshore floating production
Offshore loading systems
Offshore marine operations
Subsea systems and operations
Risers and pipelines
Energy production from the sea
Aquaculture

Published description (Publications on this facility)