

Maritime Technology division

// Website research infrastructure

www.maritiem.ugent.be/en/research_sleepertank.htm

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Experimental facilities
& analysis capacity



Data & information
management and
computing infrastructure

Infrastructure Categories	Infrastructure	
	Overview	
	Marine land-based facilities for engineering	<p>Towing tank for Manoeuvres in Confined Water (in co-operation with Flanders Hydraulics Research, Antwerp): a shallow water towing tank, equipped with a planar motion carriage, a wave generator and an auxiliary carriage for ship-ship interaction tests (Total length: 88.0 m, Useful length: 67.0 m, Width: 7.0 m, Maximum water depth: 0.5 m, Ship model length: 3.5 - 4.5 m). Selected series of data can be freely used for validation purposes. ^{2,3}</p> <p>Under construction: Flanders Maritime Laboratory in Ostend (Towing Tank for Manoeuvres in Shallow Water: length 150 m, width 20 m, maximum depth 1.0 m, ship model length 7 m + Coastal and Ocean Basin). ^{2,3}</p>
	Num. models, spec. software and comp. IR	<p>Specific maritime software packages Probabilistic and deterministic access policy</p> <ul style="list-style-type: none"> ProToel (in co-operation with Flanders Hydraulics Research) ² RivSea (sea-keeping risk analysis tool for estuary vessels) ² <p>Mooring ships behaviour</p> <ul style="list-style-type: none"> Ropes ² Vlugmoor ² Optimoor ² <p>Moored structures</p> <ul style="list-style-type: none"> Moordyn ² <p>Hydrostatics</p> <ul style="list-style-type: none"> Deltship (complete design package for application in the marine industry) ArchimedesMB HeelMe Wolfson Unit <p>Calculation in seaway</p> <ul style="list-style-type: none"> Octopus Seaway WAMIT Software for risk analysis of estuarine vessels <p>Resistance and propulsion</p> <ul style="list-style-type: none"> PSP Wageningen Propeller Series Hydrocomp NavCad Hydrocomp PropCad Hydrocomp SwiftCraft <p>Ship Construction</p> <ul style="list-style-type: none"> Bureau Veritas eRules
	Simulators	See Flanders Hydraulics Research (W Matlab)
	(Marine) libraries	Library on ship/maritime technology and hydrodynamics