Research outputs:

**Lad vand og data strømme**
Research output: Book/Report › Report – Annual report year: 2019 › Commissioned › peer-review

**Stability of single-graded scour protection around a monopile in current**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2019 › Research › peer-review

**An experimental and numerical study of floating breakwaters**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Experimental Study of Wave Force Distribution on a Monopile Structure**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

**High-Resolution Planar Two-Component PTV Measurements in a Breaking Wave**
Research output: Contribution to conference › Paper – Annual report year: 2018 › Research › peer-review

**Investigation on Breaking Focused Wave-Induced Loads on a Monopile With CFD Models**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

**Mixing of stratified flow around bridge piers in steady current**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Simulating the hydrodynamic response of a floater-net system in current and waves**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Study of Hydrodynamic Forces on Complex Structures**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

**A CFD Investigation on the Effect of the Air Entrainment in Breaking Wave Impacts on a Mono-Pile**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review
Development of a numerical model for fluid-structure interaction analysis of flow through and around an aquaculture net cage
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

PIV measurements of velocities and accelerations under breaking waves on a slope
Research output: Contribution to journal › Conference abstract in journal – Annual report year: 2017 › Research › peer-review

Pore Pressure Under A Gravity Based Structure Under The Influence Of Waves
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Porous Media and Immersed Boundary Hybrid-Modelling for Simulating Flow in Stone Cover-Layers
Research output: Contribution to conference › Paper – Annual report year: 2017 › Research › peer-review

A Coupled VOF-Eulerian Multiphase CFD Model to Simulate Breaking Wave Impacts on Offshore Structures
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Computation of Added Mass and Damping Coefficients of a Horizontal Circular Cylinder in Open Foam
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

DeRisk - Accurate prediction of ULS wave loads. Outlook and first results
Research output: Contribution to journal › Conference article – Annual report year: 2016 › Research › peer-review

Investigations on the porous resistance coefficients for fishing net structures
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Analyses of Current And Wave Forces on Velocity Caps
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

D5.2 Numerical tools
Research output: Book/Report › Report – Annual report year: 2015 › Research › peer-review

D5.3 Interaction between currents, wave, structure and subsoil
Research output: Book/Report › Report – Annual report year: 2015 › Research › peer-review

D5.4 Guidelines for interaction between seabed and support structure
Research output: Book/Report › Report – Annual report year: 2015 › Research › peer-review

Flow and Turbulence at Rubble-Mound Breakwater Armor Layers under Solitary Wave
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Go offshore -Combining food and energy production
Research output: Book/Report › Report – Annual report year: 2015 › Research › peer-review

Investigation on the Use of a Multiphase Eulerian CFD solver to simulate breaking waves
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review
Numerical Simulation of Wave Interaction with Moving Net Structures
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

Analyses of hydraulic performance of velocity caps
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Aquaculture as a part of a multi-use platform
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Impact of an offshore wind farm on wave conditions and shoreline development
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

Impact of an offshore wind farm on wave conditions and shoreline development
Research output: Contribution to journal › Conference article – Annual report year: 2014 › Research › peer-review

Investigations on the porous media equations and resistance coefficients for coastal structures
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Pressure-induced forces and shear stresses on rubble mound breakwater armour layers in regular waves
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Simulation of extreme events of oblique wave interaction with porous breakwater structures
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

Simulation of extreme events of oblique wave interaction with porous breakwater structures
Research output: Contribution to journal › Conference article – Annual report year: 2014 › Research › peer-review

Innovative multi-purpose offshore platforms: Planning, design and operation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2013 › Research › peer-review

Transmission of wave energy through an offshore wind turbine farm
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Breaking Wave on a Slender Cylinder: Comparison of Experimental Data and Numerical Results
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

Edge scour in current adjacent to stone covers
Research output: Contribution to conference › Paper – Annual report year: 2012 › Research › peer-review

Experimental and numerical investigation of the internal kinetics of a surf-zone plunging breaker
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Method to Predict Long Time Span of Scour Around Offshore Wind Turbine Foundations
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review
Wave interaction with large roughness elements on an impermeable sloping bed
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

Irregular wave loads on a gravity based foundation in shallow water
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Numerical Modelling of Wave Run-Up: Regular Waves
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Sinking of armour layer around a cylinder exposed to a current
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Scour protection around offshore wind turbines. Monopiles
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Comparing Sources of Damping of Cross-Wind Motion
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

Multi Vessel interaction in shallow water
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

Transfer of Boussinesq waves to a Navier-Stokes solver: Application to wave loads on a offshore wind turbine foundation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

Wave forces on offshore wind turbines with varying cross section and exposed to asymmetrical and breaking waves
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2007 › Research › peer-review

Numerical modelling of wave run-up on a wind turbine foundation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

Numerical simulation of ship motion in offshore and harbour areas
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

Wave Impact on Offshore Wind Turbines and Foundations
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research

Scour holes or scour protection around offshore wind turbine foundations: Effect on Loads
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2007 › Research › peer-review

Scour holes or scour protection around offshore wind turbine foundations: Effect on Loads
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review
Some Experiences with Numerical Modelling of Overflows
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Wave load son offshore wind turbine foundations in shallow water. Engineering models vs. refined flow modelling
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2007 › Research › peer-review

Influence of breaking waves on scour processes around circular offshore wind turbine foundations
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Large eddy simulation of spilling and plunging breakers
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Large Eddy Simulation of the ventilated wave boundary layer
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Numerical reproduction of extreme wave loads on a gravity wind turbine foundation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Wave Forces, Wave Run-up, and detailed Flow on and around Wind Turbine Foundations, determined by NS3
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research

Effect of breaking waves on scour processes around circular offshore wind-turbine foundations
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Extreme wave forces and wave run-up on offshore wind-turbine foundations
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Extreme wave run-up on offshore wind-turbine foundations
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Modelling of velocity and turbulence fields around and within low-crested rubble-mound breakwaters
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Numerical Simulation of hydrodynamic Loads on Offshore Windmills
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research

Reply to discussion of vertical variation of the flow across the surf zone
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Large eddy simulation of turbulent wave boundary layer subject to constant injection and associated net suspended sediment transport
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research › peer-review
Large scale experiments as a tool for numerical model development
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research › peer-review

Validation of numerical models against laboratory measurements of waves and currents around low-crested structures
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research › peer-review

Application of coastal modelling systems in support of integrated coastal zone management
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research › peer-review

Sediment transport in the outer part of the coastal profile
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research › peer-review

Vertical variation of the flow across the surf zone
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Research › peer-review

Large eddy simulation of breaking waves
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Sediment transport along the west coast of Jutland
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2001 › Research › peer-review

A study of plunging breaker mechanics by PIV measurements and a Navier-Stokes solver
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2000 › Research › peer-review

Sediment transport under breaking waves
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2000 › Research › peer-review

The use of turbulence modelling in breaking waves
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2000 › Research

Sediment transport and morphology in the vicinity of shore-parallel breakwaters
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research › peer-review

Coastal morphodynamics in subsiding areas
Research output: Book/Report › Report – Annual report year: 1998 › Research › peer-review

Local morphological evolution of the coast in the Upper Adriatic Sea. Design and management strategies to control coastal erosion
Research output: Book/Report › Report – Annual report year: 1998 › Research › peer-review

Turbulence in breaking waves - A numerical investigation

Investigation of fully developed unstable longshore current
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1995 › Research › peer-review
Numerical simulation of finite shear waves and sediment transport
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1994 › Research › peer-review

Sea bed instability on a long straight coast
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1994 › Research › peer-review

Projects:

Detailed analyses of flow in large porous structures in the marine environment
Project: PhD

Detailed analyses of breaking waves and their interaction with offshore structures in intermediate depth
Project: PhD

Reduction of Fatigue Damage Estimation based on Actual Fatigue Stress
Project: PhD

Bestemmelse af bølge overskylninger på skibe
Project: PhD

Extreme wave interaction and wave loads on offshore wind turbine structures
Project: PhD

Tsunami-Seabed Interaction
Project: PhD

CFD analyses of flow and scour around a mono-pile with and without scour protection
Project: PhD

Measuring Surf-Zone Wave Conditions and other Coastal Processes
Project: PhD

Development of natural seabed forms and their interaction with OWF
Project: PhD

Analyses of fish-cage interaction with waves and currents
Project: PhD

Density-driven currents and deposition of fine materials
Project: PhD

Stability of stone covers
Project: PhD

Efficient CFD computation of extreme wave loads on wind turbine foundations
Project: PhD
Wave interaction with porous coastal structures  
Project: PhD

Kystmorologiske arealmodeller: medium- og langtidsmodellering  
Project: PhD

Turbulens i brydningszonen.  
Project: PhD

Wave boundary layer over a porous bed  
Project: PhD

En komplett hydro- og morfodynamisk beskrivelse af revleudvikling  
Project: PhD

Detailed analyses of breaking wave dynamics interaction with nearshore and offshore structures  
Project: PhD

Scour Protection of Offshore Wind Farms  
Project: PhD

Innovative Multi-purpose offshore platforms: planning, design and operation  
Project: Research

Turbulence in plunging breakers  
Project: Research

Activities:

European Maritime Day  
Activity: Talks and presentations › Conference presentations