

North Sea Wrecks

WP5 Report on Summer School

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Image on front page: students attending the NSW Summer School at Maritime Institute Willem Barentsz in September 2022

Introduction

According to the NSW project plan WP5 aims *inter alia* to create a transnational network ensuring the sustainability of project results and further cooperation activities beyond the project, including skilled professionals. To achieve this goal, the NSW project plan stipulates that NHL Stenden, Aarhus University and DSM will closely cooperate to organize a summer school in 2022.

In 2020-2021 these three organizations prepared an NSW Summer School in close cooperation with project partners VLIZ, Kiel University, Periplus and North.io.

A draft program was created during a number of online meetings and was discussed during the NSW Steering Group meetings in June 2020 (online), May 2021 (online) and June 2022 (Kiel).

The program included short lectures by specialists followed by two case studies on the NSW selected wrecks John Mahn in Belgian waters and UC 30 in Danish waters.

The NSW Summer School was promoted online and at NHL Stenden, Aarhus University and Kiel University by NSW project partners.

On 26-27 September 2022 the NSW Summer School took place at NHL Stenden's Maritime Institute Willem Barentsz on Terschelling, the Netherlands with the possibility to join online.

The Summer School program included lectures and case studies prepared and given by representatives from Periplus, North.io, Aarhus University, NHL Stenden, VLIZ, Kiel University and the UK Ministry of Defence.

In November 2022 NHL Stenden reported back to the NSW Steering Group during the meeting in Aarhus.

This reports includes information on the NSW Summer School program, participants, feedback received and the follow-up.

Summerschool Program

The aim of the NSW Summer School was to pass on the knowledge and expertise gained during the NSW project by the project partners to the next generation of maritime professionals and make them aware of the challenges and solutions concerning wrecks and munition in the North Sea region.

The program consists of a combination of (short) lectures on survey & datamanagement and risks & policy issues by experts from the NSW project and two casestudies (ANNEX I).



Figure 1 M. Skellhorn of the UK Ministry of Defence lecturing at the NSW Summer School

The two case studies concerned two of the wrecks that were researched during the NSW project: the wreck of the John Mahn in Belgian waters and the wreck of UC30 in Danish waters (ANNEX II):

The participants worked in multidisciplinary groups to solve these cases and where necessary were supported by the NSW experts present in the room.



Figure 2 NSW Summer School students working on the case studies at Maritime Institute Willem Barentsz

While working together on the case studies and enjoying the stories about the maritime history of Terschelling that were told during the evening excursion, the group of international experts and students created a new network of present and future maritime professionals with a special interest in wrecks in the Northsea region.



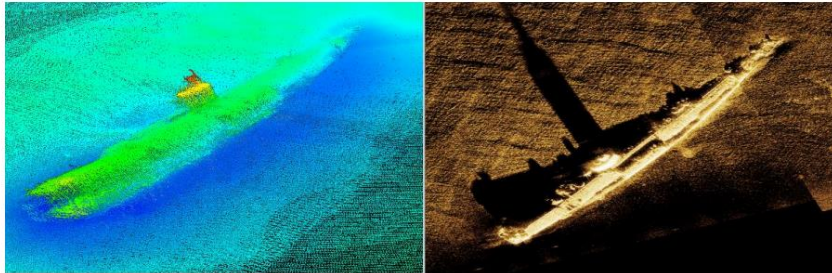
Figure 3 NSW Summer School participants attending the evening excursion in the light of lighthouse Brandaris on Terschelling.

Summer School participants

Students in Belgium, the Netherlands, Germany, Denmark and Norway were invited to attend the NSW Summerschool. The program was promoted by lecturers at NHL Stenden University of Applied Sciences, Aarhus University and Kiel University as well as online through these institutions' websites (ANNEX III).



Summer School North Sea Wrecks



The North Sea is littered with thousands of wrecks and million tons of munitions.

These objects may over time pose a threat to the environment and blue growth operations. At the same time they may be cultural heritage, war graves or fall under other legislation and policy.

The Interreg North Sea Wrecks project collected wreck data and took field samples at sea. A methodology to assess the risks related to wrecks and munition was subsequently developed. Finally the legal framework and policies around these wrecks were investigated to see which actions can be taken from both a national and international perspective.

The project scientists would like to share their knowledge and findings with you in an interactive summer school where you will go through the same process as the project scientists!

We invite you to join the North Sea Wrecks Summer School:

Are you a bachelor or master student in the maritime or a related field such as (maritime) law, food safety, toxicology or archaeology?

- 🚩 26-27 September 2022
- 🚩 Maritime Institute Willem Barentsz at the island of Terschelling, the Netherlands
- 🚩 Participation: Free of charge. See details.
- 🚩 Modest compensation available for travel and accommodation. See details.
- 🚩 Program: see next page

How to apply:

Apply with a short CV and motivation before 1 September 2022 by sending an email to welmoed.van.der.velde@nhlstenden.com

Limited number of tickets for physical participation. Selection based on motivation.

Theoretical / hybrid lectures (mornings): unlimited participation

We will inform you before 9 September 2022.

Figure 4 Leaflet promoting the NSW Summer School

Students attending a bachelor or master program in the maritime or a related field were invited to apply for the NSW Summer School with a short motivation. 34 students applied of which 26 students were selected based on their studies in the maritime or a related field and their motivation letter.

From the 26 students attending the NSW Summer School 21 students participated in person at Terschelling and 5 students participated online. The participants came from NHL Stenden University of Applied Sciences (11), Kiel University (12), Aarhus University (1), FFI (1) and Hanze Hogeschool (1). The students formed a multidisciplinary group with training and education in Ocean Technology, Maritime Officer, Law, (Marine) Biology, Nutrition and Food Science, Environmental and Resource Economics, Environmental Management, Biological Oceanography and Geology.

Feedback and Follow-up

At the end of the Summer School the participants were invited to share their feedback on the program and organization. They described the Summer School as an enriching and great learning experience.

NSW Summer School



"Thank you again for those great memorable two days!"

"I had an enriching experience at North Sea Wrecks Project Summer School at the Maritime Institute Willem Barentsz."

"thanks again for the great learning experience on Terschelling."

Figure 5 quotes from NSW Summer School participants

Based on the positive feedback on the NSW Summer School, NHL Stenden University of Applied Sciences decided to include a 5 days Summer School on maritime sustainability as a permanent part of the minor Sustainable use of Oceans and Seas that is offered at Maritime Institute Willem Barentsz. This new Summer School on maritime sustainability includes student research projects that are part of INTERREG project REMARCO, the follow-up project of INTERREG NSW.

Summary

According to the NSW project plan WP5 aims to organize a summer school in order to create a transnational network ensuring the sustainability of project results and further cooperation activities beyond the project, including skilled professionals.

NHL Stenden, Aarhus University and DSM in close cooperation with the other project partners and members of the Steering Group, have organized an NSW summer school on Terschelling and online on 26-27 September 2022. In total, a multidisciplinary group of 26 participants from The Netherlands, Germany, Denmark and Norway attended the course.

The Summer School program included lectures given by representatives from Periplus, North.io, Aarhus University, NHL Stenden, VLIZ, Kiel University and the UK Ministry of Defence. The Summer School participants worked together on two case studies on the NSW selected wrecks John Mahn and UC 30.

The participants described the NSW Summer School as an enriching and great learning experience. Based on this positive feedback, NHL Stenden University of Applied Sciences decided to include a 5 days Summer School on maritime sustainability in Maritime Institute Willem Barentsz's curriculum.

ANNEX I

NSW Summer School Program

Date and time	Part	Lecturer	Content
Monday 26th September 2022			
09.30h Room Z2.09	Registration and welcome		
	Short introduction on NSW project and specific wrecks, including surveys	DSM Sven Bergmann	Introduction to NSW project and NSW wrecks
	Lectures on Survey and Data management (WP3 + WP4 related) <i>hybrid</i>		Short (20 min) lectures/presentations
	1	Periplus Rens Cassée North.io Simon van der Wulp	Which data are required?
	2	NHL Stenden Huibert-Jan Lekkerkerk AU Katrine Juul Andresen (online) VLIZ Sven van Haelst	How are data collected? Hydrographic, Geophysical and Sampling
	3	UK Ministry of Defence Matt Skelhorn	Wrecks and munition in the international context (far Eastern context)
12.30-13.30	LUNCH @ MIWB		
Afternoon	Case Study on specific wrecks <i>On location only</i>	Supervision by experts VLIZ Periplus and North.io	Focus on collecting data Belgian wreck (John Mahn) and Danish wreck (UC30) Challenge:

			2 parts: -Which data are required <i>Discussion</i> -draft sampling plan and excursion based on data (from WRECKNS) 2 competing teams present results
	Discussion/lessons learnt		
17.45h	DINNER @MIWB		
20.00h	Excursion		

Tuesday 27th September 2022			
09.00h	Lecture on risks, protected interests and legal/policy issues related to wrecks (WP4 + WP5 related) <i>hybrid</i>		Short (20 min) lectures/presentations
	0	NHL Stenden Huibert-Jan Lekkerkerk Welmoed van der Velde	Wrap-up
	1	UK Ministry of Defence Matt Skelhorn	Hazards wrecks and munition (general)
	2	UK Ministry of Defence Matt Skelhorn	Taphonomy, taphonomic process
	3	UKSH Jenni Strehse Eddie Maser	Toxicology
	4	VLIZ Sven van Haelst	Cultural Heritage
	5	Periplus	Risk assessment

		Rens Cassée North.io Simon van der Wulp	
	6	NHL Stenden Welmoed van der Velde	Policy considerations
12.30-13.30	LUNCH @MIWB		
Tuesday Afternoon	Case Study on specific wrecks <i>On location only</i>	Supervision by experts VLIZ MIWB	Focus on management of wrecks: risks and legislation 2 wrecks (John Mahn and UC 30) 2 teams, use WRECKNS Challenge: what should be the next steps? 2 teams present results
	Discussion/lessons learnt		
15.30h	End of Summer School		

ANNEX II

NSW Summer School Case Studies

Day 1 - Assignment 1

- Look at both wrecks in GridIT
- Check what is already known
- Determine what you would want to know
- Determine which data you would need
- Check which data you can find on the Internet for these wrecks

Day 1 – Assignment 2

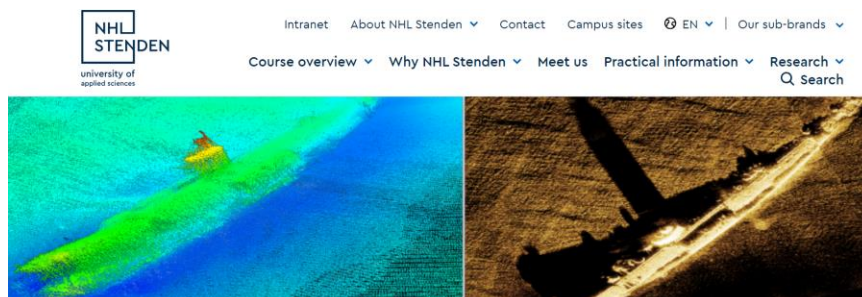
- Use the information to determine a sampling plan for the wrecks
- Take into account location, tides, currents
- Think about where the best locations are for your passive samplers
 - You get 8 passive samplers, these are deployed in pairs
- Where to take water and sediment samples
- Where to place mussels

Day 2 – Assignment 1

- Consider the two wrecks
- Determine the risks
- Determine where the wrecks stand in the legal framework
- Decide which wreck (or none?) has a priority
- Think about the measures you can take for that wreck (wrecks?)

ANNEX III

NHL Stenden website promoting the NSW Summer School



North Sea Wrecks Summer School

When?	What time?	Location
26-27 september 2022	2 days	Terschelling

[Sign up before September 1st →](#)

The North Sea is littered with thousands of wrecks and million tons of munitions. These objects can over time pose a threat to the environment and blue growth operations. The Interreg North Sea Wrecks project collected wreck data and took field samples at sea. A methodology to assess the risks related to wrecks and munition was subsequently developed. The project scientists like to share their knowledge and findings with you!

Programme

We invite you to join the North Sea Wrecks Summer School:

- ✓ Maritime Institute Willem Barentsz at Terschelling
- ✓ Free of charge
- ✓ Modest compensation available for travel en accommodation costs

Apply with a short motivation before September. Limited number of tickets. Selection based on motivation. We will inform you in the beginning of september.

[View the programme](#)

Partner



