

In this newsletter of March we catch up on all the upcoming activities, past events and some interesting research!

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SNELLIUS NEWSLETTER

March 2016



Dear Test First Name

The fourth education quarter started and it is the end of April thus it is time for the newsletter of April! In this newsletter we have Reenu Toodesh as PhD student of the month with an article about optimizing hydrographic survey frequencies. Furthermore, our commissioner of education, Mariska Koning, gives an overview on updates in the master track geosciences and remote sensing. The planning of the activities is finished up to June so you can all save the dates already. As always everyone is invited so staff, PhD and students! More information about Snellius can be found on: www.snelliusdispuut.nl.

PhD'er of the month

The Ph.D'er of the month is Reenu Toodesh. She is doing a Ph.D. project about safe navigation by optimizing seabed monitoring and waterway maintenance using fundamental knowledge of seabed dynamics.

My Ph.D. project is part of the larger multidisciplinary STW Project SMARTSEA. This project focuses

To optimize a survey frequency plan for surveys, it is essential to be able to make a risk-based assessment focused on expected depths and grounding risks due to sandwave dynamics, objects on the seafloor (such as wrecks and unknown objects), human intervention activities and extreme storm events. This risk-based approach will cover the complete

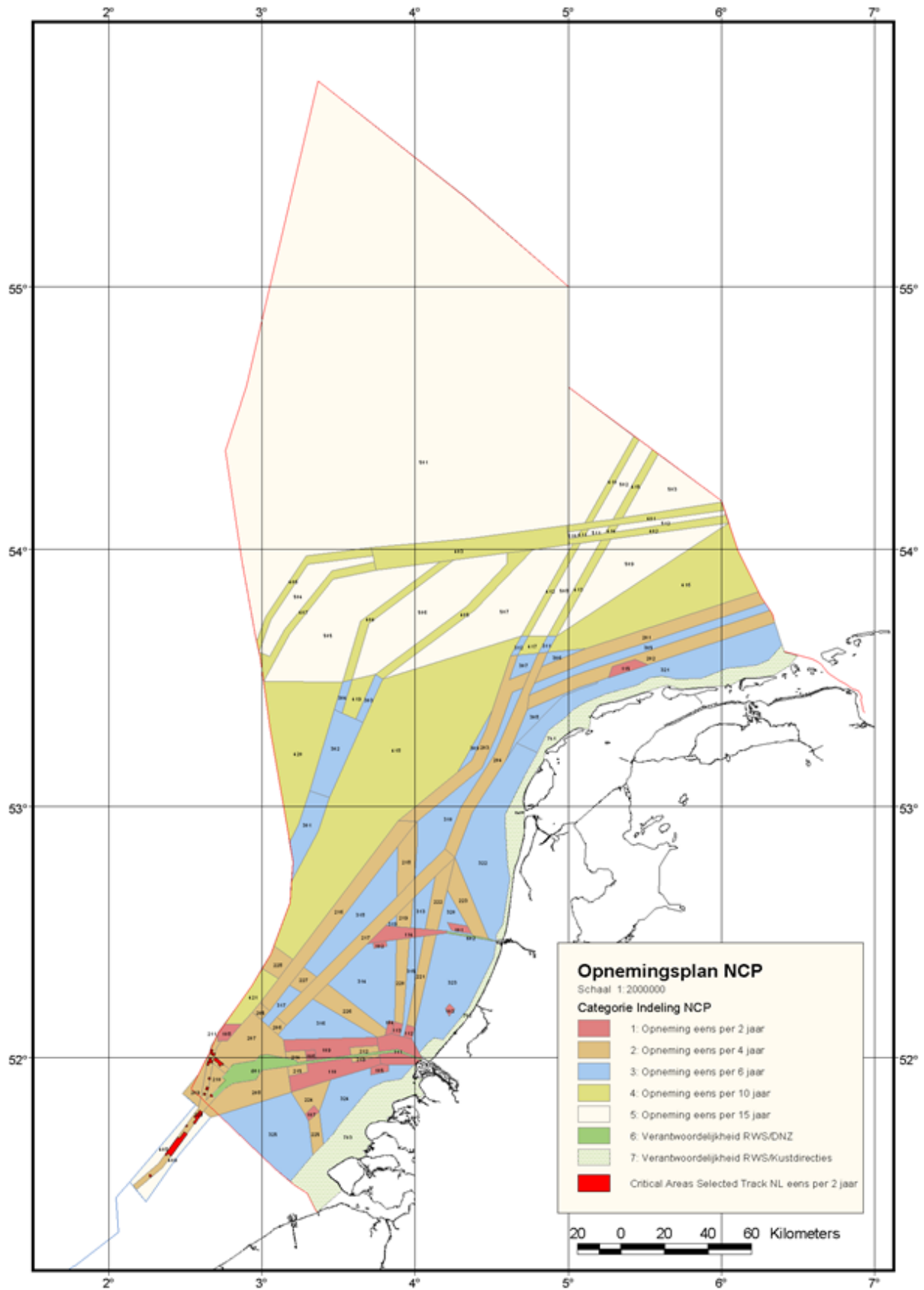
on a risk-based adaptive approach to optimizing hydrographic survey frequencies for the Netherlands Continental Shelf (NCS) using geostatistical techniques.

For purposes of safe navigation, there is a need for hydrographic surveys to be managed efficiently and kept up-to-date. The two entities responsible for conducting hydrographic surveys are the Netherlands Hydrographic Office and Rijkswaterstraat (RWS). The Hydrographic Survey Policy gives the survey frequencies (in years) of areas of the NCS which is currently mainly based on the location of shipping lanes. However, the NCS is characterized as having a shallow seafloor with dynamic seabed formations, especially sandwaves that vary temporally and spatially. This is a concern since the navigable depths have to be maintained and managed efficiently to account for the factors that affect the seafloor depths and hence maritime safety.

NCS to provide a methodical probabilistic analysis of the uncertainties that can support the further development of an adaptive tool for the hydrographic survey policy of the NCS .

This new tool will aim to divide the NCS into classified areas with an assigned resurvey frequency. These resurvey frequencies will be updated based on the expected depths and grounding risks with accompanying quality indicators which determine the time of the next hydrographic survey. Developing this algorithm will lead to a new decision support tool which is an adaptive, expedited characterization of the NCS into areas represented by a more detailed resurvey frequency map that will offer substantial economic advantages when assessing, managing and planning hydrographic resurveys.

By Reenu Toodesh



Survey Policy Netherlands.

Update Master Track

It has been a while since you gave feedback on the courses of the second quarter. While we were enjoying the lunch, we discussed how the courses 'Simulation and Visualization', 'Ethics and Climate Change' and 'Geo-signal analysis and interpretation' were experienced. Your feedback was passed on to the teachers of these courses and also we had some discussions on how to improve. Hereby I want to inform you about the upcoming changes in two of the three courses.

Starting next year the largest change will be in the course 'Geo-signal analysis and interpretation'. The part that is being taught by Roland Klees on signal frequency analysis was experienced as difficult. Therefore this part will get more time

The science report of 'Ethics and Climate Change' will be cancelled, meaning that CIE4613 (5EC) will not longer be taught, so MSc GRS students will also follow the course (4EC) CIE4510 along with students from different master tracks.

Furthermore, the lectures of Roland Klees and Roderik Lindenbergh will be given parallel. This will give students more time to process the harder Fourier part of Geo-signal analysis and have both parts fresh in mind before the exam. The assignments will be given alternately; one week there will be an assignment geo-statistics (Roderik Lindenbergh's part) and the other week there will be an assignment signal frequency analysis (Roland Klees' part).

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This extra ECTS will come from the course 'Climate Change: Science and Ethics'. As a result, the science report of 'Ethics and Climate Change' will be cancelled, meaning that CIE4613 (5EC) will no longer be taught. From next year on, GRS students will also follow the course (4EC) CIE4510 along with the other students.

courses. These changes are a direct result of what you tell us during the evaluation lunches. In a few weeks time, we will discuss your feedback on the courses in the third quarter. We will keep you posted on the results.

Upcoming activities:

- Tue 3 May - Activity: Jump planet!
- Wed 11 May - Civil Engineering Company Days
- Thu 12 May - Civil Engineering Company Days
- Thu 19 May - Snellius Drinks
- Wed 25 May - Google Engine Workshop
- Fri 3 June - Spring BBQ
- Wed 8 June - KNMI Excursion

Want to stay up2date with all our activities? Subscribe to our calendar via [Google Calendar](#) or the [direct ICS link](#)



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