

NCR Lectures

A collection of recorded lectures given at the Netherlands Centre for River studies

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Annual Programme 2022

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Date 15 December 2021 | 13:00 - 13:50
Lecturer Melissa Latella
Topic From point clouds to vegetation biomass for riparian mapping and river modelling

From point clouds to vegetation biomass for riparian mapping and river modelling

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Date 27 October 2021 | 13:00 - 13:50
Lecturer Emma Avoyan
Topic Exploring different paths to successful collaborations in flood defense projects

Exploring different paths to successful collaborations in flood defense projects

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Date 26 May 2021 | 13:00 - 14:00
Lecturer Frans Buschman
Topic The fate of plastic litter in rivers and estuaries: a monitoring based approach

The fate of plastic litter in rivers and estuaries: a monitoring based approach

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Date 14 April 2021 | 13:00 - 14:00
Lecturer Muriel Brückner
Topic Stabilization and destabilization in rivers and estuaries – How mud and organisms determine our landscapes

Stabilization and destabilization in rivers and estuaries – How mud and organisms determine our landscapes

Annual Programme 2022

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1 Introduction

1.1 Objective of NCR

NCR was founded as a formal cooperation between several Dutch institutions. On October 4, 2012, the partners of the 'Netherlands Centre for River studies' (NCR, Dutch: 'Nederlands Centrum voor Rivierkunde (NCR)') formally renewed their cooperation within NCR.

The objective of NCR is:

Doelstelling van het NCR is een samenwerking tot stand te brengen tussen de belangrijkste kennisgebruikers en kennisontwikkelaars in Nederland op het gebied van rivieren met als uiteindelijk resultaat een versterking van het kennispotentieel, de profilering van de (inter)nationale positie van het Nederlands rivieronderzoek en het versterken van het onderwijs en het wetenschappelijk onderzoek aan de Nederlandse Universiteiten ten behoeve van een betere inrichting en beheer van de Nederlandse rivieren.

This translates to:

The objective of the NCR is to establish cooperation between the major knowledge suppliers and knowledge users in Netherlands in the field of river studies, with the ultimate aim of reinforcing the knowledge potential, promoting the international position of Dutch river research and strengthen the education & scientific research at Dutch universities, to better design and manage Dutch rivers.

1.2 Domains

NCR encompasses all disciplines relevant to river studies as practices by its institutional partners. They include:

- Hydrodynamics
- Sediment transport and morphology
- Fluvial geomorphology and sedimentology

- River ecology, restoration and water quality
- Governance and spatial planning
- Modelling, serious gaming and digital twins

1.3 NCR Organisation

NCR has four main bodies. The mandates for all except Young NCR (YNCR) are documented in the "Overeenkomst Nederlands Centrum voor Rivierkunde 2012".

- **Programme Secretary (Dutch: Programmasecretaris)**
Safeguards the continuity of NCR activities, secretary to SB and PC; monitors of agreed actions by the SB and PC; reports of NCR finances; management of all NCR communications.
- **Supervisory Board (Dutch: Commissie van Toezicht)**
Supervises the implementation of the cooperation agreement, settles disputes and approves the scientific programme.
- **Program Committee (Dutch: Programmacommissie)**
Determines the scientific programme, stimulates and initiates proposals for activities and integration of knowledge, ideas, experiences and results.
- **Young NCR (Dutch: Jong NCR)**
Established in December 2020, YNCR strives to strengthen the network of young/early-career scientists within NCR.

1.4 Institutional partners

The partners of NCR are: Rijkswaterstaat (RWS), Universiteit Twente (UT), Radboud Universiteit Nijmegen (RUN), Deltares, Universiteit Utrecht (UU), Technische Universiteit (TUD) and Wageningen University & Research (WUR).

Each partner contributes in-kind to realise the annual programme. Deltares and Rijkswaterstaat additionally contribute in-cash to fund the office of the programme secretary and NCR services.

1.5 Accountability

NCR activities are annually documented in an annual programme, annual report and annual budget. The annual programme and budget are approved by the Supervisory board.

2 Boards

2.1 Board membership

NCR partners nominate members for the various boards. Multiple members are allowed per partner, though only the most senior partner present has voting rights during meetings. The boards nominate their own chair. Current chairpersons are prof. dr. Jaap Kwadijk (Supervisory board), drs. Matthijs Boersema (Programme committee) and Clàudia Ylla Arbós MSc (Young NCR).

2.2 Board meetings

The supervisory board meets at least once a year to approve the annual programme. The programme committee meets three times per year. The programme secretary takes minutes of these meetings. Young NCR meets monthly and is administered by the vice programme secretary. Once a year a joint meeting of the boards is called during the NCR Days.

Table 2.1: The composition of NCR Boards in 2022. Persons marked with * are chair persons.

Person	Partner institution	Email
Programme Secretary		
dr. ir. Koen Berends*	Deltares	koen.berends@deltares.nl
ir. Anna Kusters	Deltares	anna.kusters@deltares.nl
Supervisory board		
prof. dr. Jaap Kwadijk*	Deltares	jaap.kwadijk@deltares.nl
prof. dr. Hans Middelkoop	Utrecht University	h.middelkoop@uu.nl
prof. dr. ir. Wim Uittewaai	Delft University of Technology	W.S.J.Uittewaai@tudelft.nl
prof. dr. Ton Hoitink	Wageningen University & Research	ton.hoitink@wur.nl
prof. dr. Suzanne Hulscher	University of Twente	s.j.m.h.hulscher@utwente.nl
drs. Monique Busnach-Blankers	Rijkswaterstaat	monique.busnach-blankers@rws.nl
dr. Wilco Verberk	Radboud University Nijmegen	w.verberk@science.ru.nl
Programme committee		
drs. Matthijs Boersema*	Rijkswaterstaat	matthijs.boersema@rws.nl
dr. Ralph Schielen		ralph.schielen@rws.nl
dr. Jill Slinger	Delft University of Technology	j.h.slinger@tudelft.nl
dr. Laura Stancanelli		L.M.Stancanelli@tudelft.nl
dr. Gertjan Geerling	Deltares	Gertjan.Geerling@deltares.nl
dr. Rob Lenders	Radboud University Nijmegen	r.lenders@science.ru.nl
dr. Menno Straatsma	Utrecht University	m.w.straatsma@uu.nl
dr. Jord Warmink	University of Twente	j.j.warmink@utwente.nl
dr. Kryss Waldschl�ager	Wageningen University & Research	kryss.waldschlager@wur.nl
Young NCR		
Cl�udia Ylla Arb�s MSc*	Delft University of Technology	c.yllaarb�s@tudelft.nl
ir. Anna Kusters	Deltares	anna.kusters@deltares.nl

Table 2.1: The composition of NCR Boards in 2022. Persons marked with * are chair persons.

Person	Partner institution	Email
T.B.D.	Radboud University Nijmegen	
Patricia Buffon MSc	Delft University of Technology, IHE Delft*	P.Buffon@tudelft.nl
Jana Cox MSc	Utrecht University	j.r.cox@uu.nl
ir. Fateme Ebrahimierami	University of Twente	f.ebrahimierami@utwente.nl
Iris Niesten MSc	Wageningen University & Research	iris.niesten@wur.nl
Niek van der Sleen MSc	Rijkswaterstaat-WVL	niek.vander.sleen@rws.nl

3 Planned activities

3.1 Event types

3.1.1 NCR Days

The NCR DAYS is the annual meeting of the NCR network. It is a two-day conference organised by one of the partners. The organising partner is fully responsible for the organisation of the event. The programme secretary maintains an organiser toolkit to help with the planning and budgeting of this event.

3.1.2 Seminars

Seminars (*Themadagen*) are single or half-day events focussed on a single topic or theme, e.g. *Remote sensing of rivers*. NCR aims to offer seminars free-of-charge to participants.

3.1.3 Lectures

Lectures are online events where a single speaker presents a topic of interest. Lectures are recorded and made available on the NCR vimeo platform ([link](#)). The standard NCR lecture is hosted by a senior mem-

ber within the NCR network and consists of a 25 minute presentation, followed by 25 minute discussion with the audience. Participation is free; registration is not necessary.

3.1.4 Network events

Network events are social activities with the main aim of increasing or improving the personal network of participants. Examples include drinks, field trips and career events.

3.1.5 Meetings

These are the regular, planned meetings of the boards.

3.2 COVID-19 Restrictions

Note that all activities are conditional upon existing restrictions. If an event cannot be organised in-person, it may be cancelled, postponed or organised online.

Table 3.1: Overview of planned NCR events in 2022. All dates are provisional and subject to change. Events will be promoted through the NCR maillist and website.

Event	Type	Description	Lead	Date
sb21	Meeting	21st meeting of the Supervisory board. Special agenda: approval of the annual programme	Programme secretary	Jan/22
pc83	Meeting	83rd meeting of the Programme Committee. Special agenda: discussion of annual programme	Programme secretary	Jan/22
March lecture	Lecture	25 minute online lecture followed by 25 minute discussion.	Programme committee	Mar/22
Social event	Network	Option A: YNCR organises a social activity (e. g. bowling) for the YP attending NCR days. Option B: YNCR organises a social activity (e. g. happy hour, dinner) after the career event;	YNCR	Apr/22
NCR DAYS 2022	Conference	Anthropogenic rivers	Laura Stan- canelli University (Delft of Technology)	Apr/22
jm13	Meeting	13th joint meeting of the boards (Supervisory board, Programme Committee, Young NCR). Special agenda: discussion on draft collaboration agreement 2022	Programme secretary	Apr/22

Table 3.1: Overview of planned NCR events in 2022. All dates are provisional and subject to change. Events will be promoted through the NCR maillist and website.

Event	Type	Description	Lead	Date
Flood resilient landscapes (with NCK)	Seminar	In both coastal as inland systems there is a movement toward flood resilient landscapes. Various (research) projects have been granted and/or proposed. In this seminar, we aim to bring together challenges on the coast, rivers and basins.	Bas Borsje (University of Twente), An-nemargreet de Leeuw (Deltares)	May/22
Boards meetup	Meeting	This is a non-public event in the list. Here, the NCR board members meet the YNCR board members once a year to receive feedback from each other, to discuss next year's joint activities (e.g. summer school, job market convention, lunch time seminars) that would certainly be amplified by the cooperation between both boards, and to flourish new ideas. This meeting could take place for a two to three hours, one hour to get to know each other and one to two hours of discussion. The estimated budget is for drinks and snacks;	YNCR	May/22
Heisessie	Meeting	A meeting to reflect on NCR and the purpose of the programme committee. Potentially to be merged with the YNCR "Boards meetup"	Programme committee	May/22
pc84	Meeting	84th meeting of the Programme Committee. Standard agenda.	Programme secretary	May/22
Floods of the Past	Seminar	The distant past often is an untapped source of knowledge. Past floods, victories and hardships provide data and stories to inspire future generations. In this seminar we take you along projects onto past extreme floods, and show how we can integrate geomorphologic, sedimentologic, archaeologic, and historic research with numerical modelling to unravel flood history. We will present recent and upcoming projects and discuss: what other goldmines lie in our past?	Anouk Bomers (University of Twente)	Jun/22
Field trip	Network	The field trip is the most exciting event that has been organised in 2021, and we would like to explore part of the Dutch river management strategies every year. To further facilitate networking, we propose to organize (but not necessarily finance) drinks and snacks after the event;	YNCR	Jun/22
June Lecture	Lecture	25 minute online lecture followed by 25 minute discussion.	Programme committee	Jun/22

Table 3.1: Overview of planned NCR events in 2022. All dates are provisional and subject to change. Events will be promoted through the NCR maillist and website.

Event	Type	Description	Lead	Date
Vegetation modelling	Seminar	The Meuse summer flood of 2021 prompted questions to the manner in which vegetation resistance is taken into account in predictive models. In this seminar, we aim to present an overview of current practice and research, and directions for future ambitions	Koen Berends (Deltares), Ralph Schielen (Rijkswaterstaat)	Sep/22
pc85	Meeting	85th meeting of the Programme Committee. Standard agenda.	Programme secretary	Sep/22
September lecture	Lecture	25 minute online lecture followed by 25 minute discussion.	Programme committee	Sep/22
Riverlab Rhine/Meuse event	Seminar	A follow-up of the succesful "Meuse event" in 2021.	Victor Chavarrias (Deltares)	Sep/22
October lecture	Lecture	25 minute online lecture followed by 25 minute discussion.	Programme committee	Oct/22
Career event	Network	For 2022, a round table with senior professionals will be organised to discuss the interface of different disciplines within an engineering company. The estimated budget is for logistics, drinks and snacks;	YNCR	Oct/22
Plastics in rivers	Seminar	A themeday on the topic of (micro) plastics in rivers.	Kryss Waldschläger (WUR)	Oct/22
November lecture	Lecture	25 minute online lecture followed by 25 minute discussion.	Programme committee	Nov/22
pc86	Meeting	86th meeting of the Programme Committee. Special agenda: annual programme 2023	Programme secretary	Nov/22
December lecture	Lecture	25 minute online lecture followed by 25 minute discussion.	Programme committee	Dec/22
End of year YNCR get-together	Meeting	This is a non-public event in the list. Here, the YNCR board members meet the YNCR board members once a year to discuss plans for the next year, and get to know each other. The estimated budget is for drinks and snacks.	YNCR	Dec/22

4 Research

4.1 Projects

Research projects are scientific endeavors that may consist of work-packages, themes and sub-projects. Multiple researchers may work on the same research project. NCR does not initiate or lead its own research projects. Instead, research projects of NCR members are promoted through the services NCR offers (see [Secretary and Services](#)). Any research project relevant to NCR [Introduction](#). A list of ongoing NCR

projects is available on the [NCR Project portal](#)

4.2 Publications

Academic and non-academic publications by NCR partners are promoted through the NCR services (see [Secretary and Services](#)). Any publication written by at least one (co-)author with an affiliation at an NCR institutional partner is eligible. A list of promoted publications is available on the [NCR publications portal](#)

Project	Description	Main contact	Started
All-Risk	All-Risk aims at supporting the ambitious Dutch Flood Protection Programme (HWBP) objectives when it comes to implementing new flood safety norms, which as of January 2017 are incorporated in the Water Law. The programme consists of 14 PhD research positions, and 4 postdoc research positions. International collaboration with universities in Houston, Tokyo and Berlin will also take place.	Dr. V.J. Cortes Arevalo	Jun/17
Rivers2Morrow	River2Morrow is a research program which focusses on long term development of lowland rivers, with respect to morphology, hydraulics and ecology.	ir. Emiel Olink	Jan/18
SaltiSolutions	Freshwater is vital for drinking water, nature, agriculture and industry. However, the availability of freshwater is under pressure in deltas throughout the world. Salty seawater is penetrating further up the rivers due to human intervention, such as the deepening of waterways, as equally climate change. Within SALTISolutions, the researchers, together with the partners involved such as Rijkswaterstaat, water boards, port authorities and dredging companies, will produce a virtual model (digital twin) of the Rhine-Meuse Delta. This model will integrate knowledge about processes on various spatial and time scales: from turbulent flows at the smallest scale level to the consequences of climate change in the long-term. They will use this to predict how, where, when, and how long salt from seawater will penetrate, and how measures such as implementing nature-based solutions influence the freshwater supply. These insights will be tested worldwide, as a result of which the position of Dutch delta technology will be further strengthened.	Mw. J. Grootveld (program manager)	Jan/21

Project	Description	Main contact	Started
DANUBIUS-NL	NCR is endorsing the Dutch contribution to DANUBIUS. Within this project, the DANUBIUS-NL working group applied for a position on the new Dutch national NWO roadmap Large-Scale Scientific Research Infrastructures 2021-2024. Positioning DANUBIUS-NL on the NWO roadmap will greatly support developing the NL participation in DANUBIUS-RI.	Dr. Jos Brils	Jan/23

5 Secretary and Services

5.1 Overview

To support river studies, NCR offers services to its institutional partners. These services are coordinated by the Programme Secretary. All services are offered free of charge. These include

- **Website & Knowledge base.** Partners may use the NCR website to host a project website and promote their publications.
- **Mailing list & LinkedIn** Partners may distribute information, vacancies and news through the NCR mailing list and LinkedIn company page. Research projects may use the mailing list to send out newsletters to the network.
- **Vimeo** NCR offers hosting of videos on the NCR vimeo account

- An English-language or bilingual agreement
- Inclusion of Young NCR as one of the boards
- Provision for deputy partnerships
- Indexation and re-appreciation NCR budgetary structure

Drafting of the new agreement will commence in February 2022. A first draft will be discussed during the 13th joint meeting of the boards in April 2022. The final version will be signed in the fall of 2022.

5.2.2 Mailing list provider

This year we will phase out MailChimp in favour of SendInBlue. This is motivated by a desire, grounded in GDPR regulation, to have personal data on European servers. SendInBlue is a French company that provides a service similar to MailChimp.

This change will have implications for research projects that use the NCR mailing list for newsletters (All-Risk, Rivers2Morrow).

5.2 Plans for 2022

5.2.1 New collaboration agreement

In 2022 we expect to welcome new institutional partners, which prompts the necessity of updating the collaboration agreement from 2012 ("*Samenwerkingsovereenkomst 2012*"). This allows addressing some other points as well: