

TU Delft – IMAU – Deltares

Summer School on “Sea level change: evidence, challenges and policy”

Sponsored by the TU Delft Climate Institute and by the Utrecht University Water, Climate & Future Deltas hub

Date: 29 August – 2 September 2022

Venue: Fac. of Civil Engineering and Geosciences, Delft University of Technology, Delft, The Netherlands

Goal: This Summer School will provide Ph.D. students and junior scientists interested in sea level research with an overview of advanced techniques and open challenges to measure and predict sea level change. In addition, attendees will learn and discuss about how decision-makers use available knowledge and assessment of uncertainties concerning future sea level change. The School has a strong component on hands-on learning, with practical exercises and various activities. Participants will also receive a training on science communication.

Lecturers: Jos van Alphen (*staff Deltacommissaris*), Tijn Berends (*IMAU*), Christel van Eck (*UvA*), Marjolijn Haasnoot (*Deltares*), Bart van den Hurk (*Deltares*), Marcel Kleinherenbrink (*TUD*), Erwin Lambert (*KNMI*), Sanne Muis (*VU*), Marc Naeije (*TUD*), Roelof Rietbroek (*UT-ITC*), Aimée Slangen (*NIOZ*), Cornelis Slobbe (*TUD*), Walter Smith (*NOAA*), Roderik van de Wal (*IMAU*), Melchior van Wessem (*IMAU*), Riccardo Riva (*TUD, convenor*) and Miren Vizcaino (*TUD, convenor*).

Synthetic programme

Day 1 – Introduction to sea level science: evidence, processes, projections and extremes; student pitches and poster session.

Day 2 – The Antarctic Ice Sheet; field trip to the Sand Motor.

Day 3 – Next-generation sea level observation techniques: coastal altimetry; computer exercises.

Day 4 – Decision-making in the presence of uncertainties: game and a practitioner’s view; high-end projections and debate about dealing with high-impact low-probability events.

Day 5 – How to communicate about climate change from a social science perspective; workshop wrap-up.

Practical information

The school is open to PhD students and junior post-docs working on sea level related subjects. The registration fee is EUR 100 and includes full board, excursion and course material. Concerning accommodation, we have a limited number of pre-reserved single rooms at EUR 400 per stay, available on a first-come first-served basis.

To register, please send an e-mail to Secr-grs-citg@tudelft.nl, specifying “Sea-level Summer School” in the subject, by 31 March 2022. Your application should include a PDF containing a statement on why you want to participate in the school, a short description of your research project (max 200 words), your affiliation, contact information of your supervisor, and whether you wish to make use of the available accommodation.

Shortly after the registration deadline, you will receive notification whether your application has been accepted and instructions on how to wire the registration and accommodation fees, which will need to be received by 15 May 2022.

Note that the format of the School is based on the expectation that participants and lecturers will be able to physically attend. If the COVID-19 pandemic were to disrupt international travel, we will consider whether to change the format to hybrid/online, or to postpone it to the following year, in consultation with all parties involved.

For updates, please check the SLCSS item on the News&Agenda page of the Geoscience & Remote Sensing website:

<https://www.tudelft.nl/citg/over-faculteit/afdelingen/geoscience-remote-sensing/news-agenda/>