



International Association of Hydrogeologists

Irish Group

Technical Discussion Meeting & Annual General Meeting

‘Danish challenges on connecting groundwater to surface waters and GWDTE areas on a national scale related to the WFD’

**Bertel Nilsson and Jacob Kidmose, Senior Scientists,
Geological Survey of Denmark and Greenland**

Followed by Annual General Meeting

Venue: DCU Glasnevin Campus: Room XG15 in the Lonsdale Building, 592, 628 Collins Avenue Ext, Whitehall, Dublin 9, D09 E432

or via Zoom

https://us02web.zoom.us/meeting/register/tZAqc-GtrTgpGtKdz0_8mhUiWF5uKGWpVzaO

Date: Tuesday 8th November, 2022

Time: 18:00 – 18:45 TDM presentation
18:45 – 19:00 Refreshments
19:00 – 20:00 IAH Irish Group AGM

IAH Meetings in 2022

Tuesday 6th December Results from the Groundwater 3D project (Geological Survey Ireland)



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Overview

The Geological Survey of Denmark and Greenland (GEUS) is responsible for the Danish groundwater monitoring network, and has undertaken major work on connecting the national groundwater monitoring programme with the different hydrological compartments of rivers, lakes, coastal waters, and GWDEs. GEUS work in collaboration with Aarhus University, who are responsible for the national monitoring of surface waters and GWDEs.

Drs Nilsson and Kidmose will present work undertaken up to now, and ideas on the work they will be starting for the Danish EPA, on characterising the contact between the groundwater bodies and surface waters (rivers, lakes, coastal water, and Groundwater Dependent Ecosystems (GWDEs) nature-protected areas) for WFD purposes.

GEUS have used the national water resource model as a hydrological tool to characterise contact conditions between groundwater and surface water and calculate groundwater fluxes to surface water. There are scale effects especially for larger lakes and small areas with GWDEs that have been challenging. Their next tasks are to improve the categorisation of 990 targeted lakes.

About the speakers:



Bertel Nilsson, Senior Scientist, Department of Hydrology, GEUS:

Bertel Nilsson is senior research scientist in hydrogeology at the Geological Survey of Denmark and Greenland, where he has worked since 1988. He is co-author on more than 55 publications. He studied at the University of Copenhagen.



Jacob Kidmose, GEUS:

Jacob Kidmose is senior researcher in hydrogeology at the Geological Survey of Denmark and Greenland. Before joining GEUS in 2010, he obtained his PhD, MSc and BSc from the University of Copenhagen.