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Interim cruise report no “28.01.2022, 26.04.2022-09.05.2022, Jnr. 22/1557”.

The final results from the Swedish UWTV (Underwater television) *Nephrops* survey in the Skagerrak & Kattegat (functional unit 3 & 4) area are not yet available. The following interim report no. “28.01.2022, 26.04.2022-09.05.2022, Jnr. 22/1557”. is part of the fulfillment of the conditions to enter Norwegian zone with the research vessel Svea given by permit “22/1557”

Final results are to be presented in the ICES working groups WGNEPS 2022 report (planned during winter 2022/2023) and the WGNSSK report 2023.

Participants

Svea skipper Johan Edvall and crew and from SLU Aqua:
Baldvin Thorvaldsson, Svend Koppetsch, Anders Wernbo and Erika Norlinder.
The scientific officer and cruise leader was Patrik Jonsson.

Objectives

The cruise is part of the joint Swedish-Danish survey to cover the nephrops fishing grounds in the Skagerrak and Kattegat area. A video camera mounted on a sledge is towed along the bottom in a short segments (approx. 200 m) at about 100 station. In case of steep topography, rocky bottoms etc the sledge can be moved within 300 m to seek a more suitable bottom for towing without risking entanglements or poor bottom contact. In subsequent video analysis, the nephrops burrows are counted manually and estimated burrow density is part of the assessment and quota calculations coordinated by the ICES.

Itinerary

In 2022 Sweden was using the new research vessel Svea (call sign **SEYB**) for the third time during this survey. Svea left Lysekil the 2022-04-29 travelling north and arrived in Helsingborg at 2022-05-07. No foreign port calls were made during the cruise. The five planned stations in the Norwegian EEZ were sampled between 0300UTC and 0900UTC the 30th of April. Samples were carried out according to plan. The cruise track and visited stations are visualized in the map below.

Achievements

The Swedish part of the survey covered 100 planned stations out of which five were located in the Norwegian part of the Skagerrak. Opportunistic sampling were carried out at an additional ten stations in the creel areas where. During the survey 60 stations in a parallel project were also sampled. The final number of valid

stations awaits the final video analyses but high turbidity and visibility was less of a problem relative to the 2021 survey.

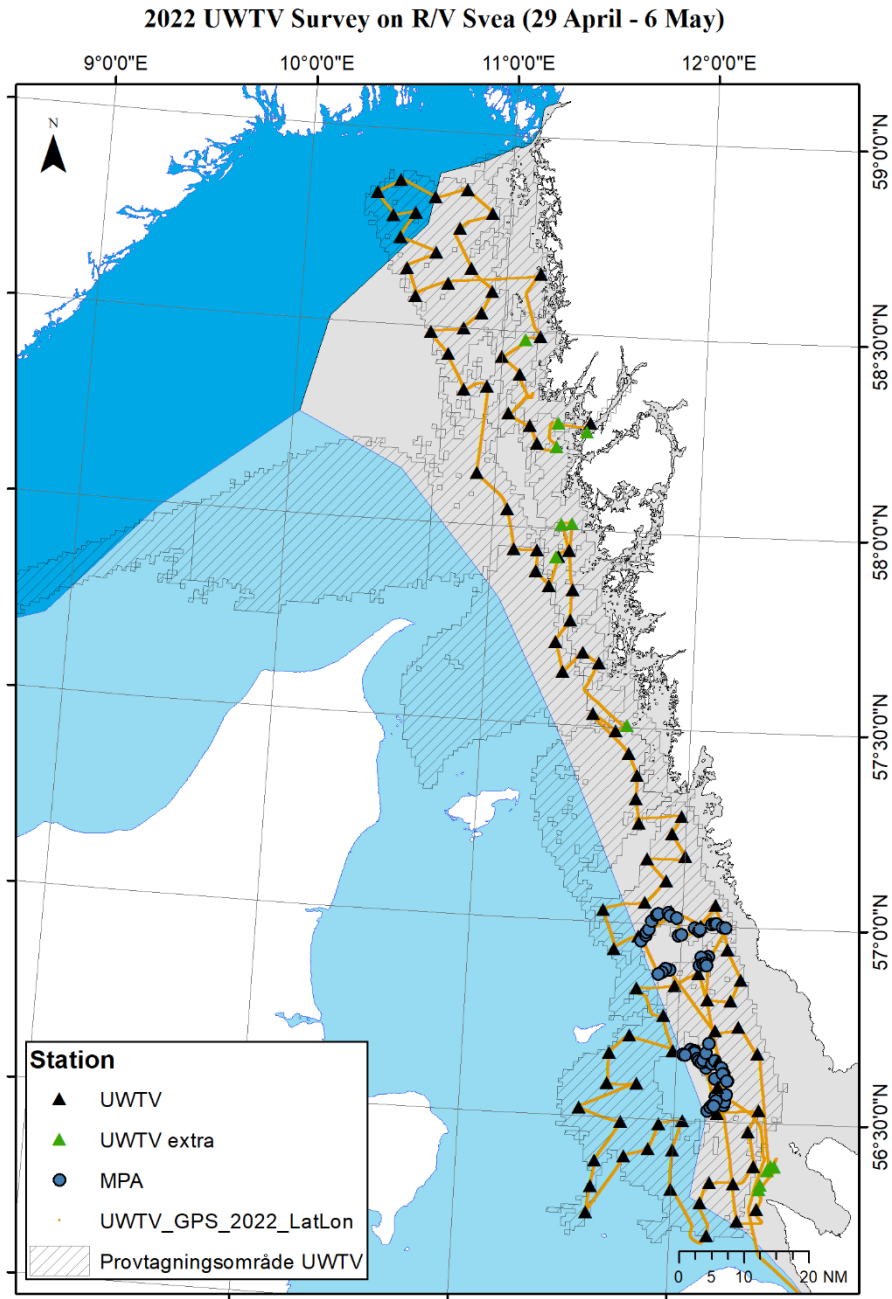


Figure. Cruise track from SVEA during the Nephrops UWTV survey (FU 3 & 4) 2022.