



Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

Department of Aquatic Resources (SLU Aqua)
Patrik Jonsson

SLU ID: SLU.aqua.2024.5.4-339

2024-12-04

Interim cruise report no "27.12.2023, 15.04.2024-30.04.2024, Jnr. 23/18505".

The following interim report no." 27.12.2023, 15.04.2024-30.04.2024, Jnr. 23/18505" is part of the fulfillment of the conditions to enter Norwegian zone with the research vessel Svea given by permit "23/18505"

Final results are to be presented in the ICES working groups WGNeps 2024 report (planned during winter 2024/2025).

Participants

Svea skipper Martin Samuelsson and crew and from SLU Aqua: Erika Norlinder, Emmelie Hammenstig-Åström, Baldvin Thorvaldsson and Anders Wernbo. 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 coordinated through ICES working group WGNeps. 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 up to 500 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

Sweden is using the research vessel Svea (call sign **SEYB**) and Svea left Lysekil the 2024-04-18 travelling first north and arrived in Lysekil at 2024-04-25. No foreign port calls were made during the cruise. The four planned stations in the Norwegian EEZ were sampled between 1600UTC April 19th and 2300UTC the April 19th. Samples were carried out according to plan. The cruise track and visited stations in the Skagerrak/Kattegat is visualized in the map below.

Achievements

The Swedish part of the survey covered 102 planned stations of which four were located in the Norwegian part of the Skagerrak. The resulting bias corrected densities of nephrops burrows at the Norwegian stations are shown in the table below.

Table. Burrow density at Norwegian stations

Station	Latitud	Longitud	Burrow density (no/m ²)
s6c0026	10.486	58.865	0.051
s6c0093	10.353	58.836	0.051
s6c0186	10.489	58.810	0.026
s6c0494	10.418	58.664	0.085

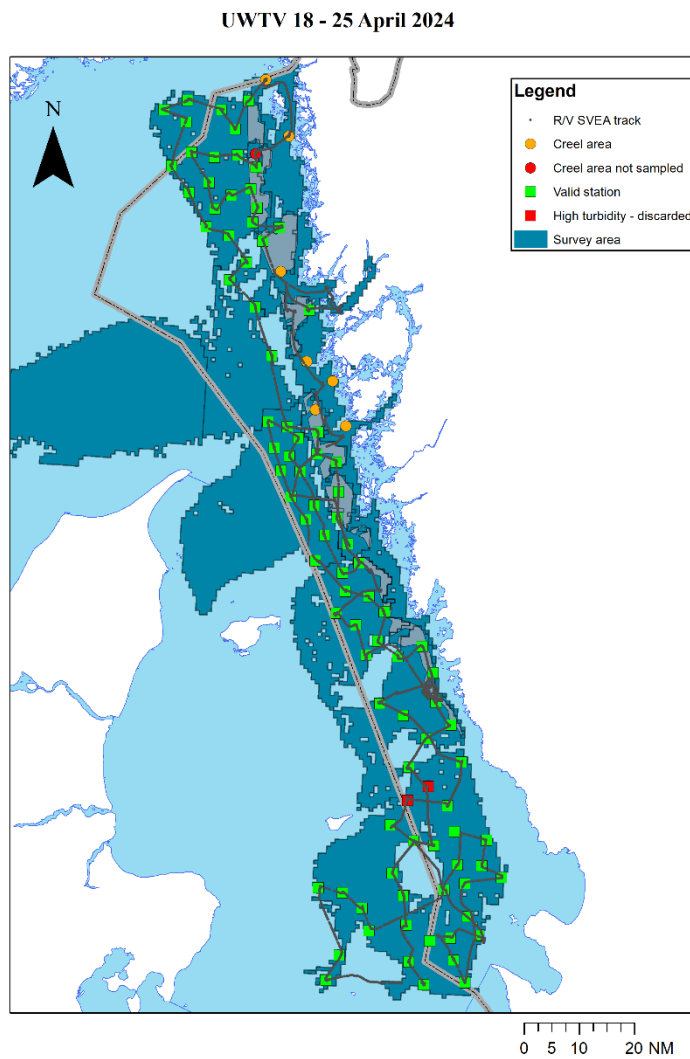


Figure. Cruise track and sampled stations (green box indicates valid stations) in the Skagerrak and Kattegat SVEA during the Nephrops UWTV survey (FU 3 & 4) 2024.