

GENERAL INFORMATION

North Sea Herring Acoustic Survey (HERAS) CSR REF-NO: 21031801

Depth:0m <u>+</u> ID Cruise name = North Sea Herring Acoustic Survey 21031801 (HERAS) North Platform/Ship Platform type 206 Sea Tridens research vessel Cruise begin Cruise end 26.06.2023 20.07.2023 Port of Departure Port of Return Scheveningen, Netherlands Scheveningen, Netherlands Local id Alternative id 21031801 Leeds Chief Scientist(s) Manchester Bram Couperus -Wageningen Marine Research, **IJmuiden** Birmingham Responsible(s) Laboratory ited Kingdom 100 km Wageningen Marine Research, 50 mi

DESCRIPTION

<u>IJmuiden</u>

The Dutch Institute Wageningen Marine Research (WMR) has participated in the international North Sea acoustic survey for herring (HERAS) since 1991. The other participating countries in this survey are Scotland, Norway, Germany, Denmark and Ireland. The survey is part of the EU data collection framework (DCF) and is coordinated by the ICES Working Group for International Pelagic Surveys (WGIPS).

The aim of this survey is to provide an abundance estimate of the whole North Sea herring population. This estimate is used as a tuning index by the ICES Herring Assessment Working Group (HAWG) in its assessment of the population size. In this report the results for the 2019 survey in the central North Sea as carried out by the Dutch research vessel Tridens are presented. The area covered is therefore limited to the biological strata covered by Tridens. As a consequence, the presented size and composition of the herring and sprat stock is independent from the remainder of the North Sea.

For the estimation of the total North Sea stocks, the acoustic and biological data of all participating countries will be uploaded to the ICES acoustic database and used by WGIPS to carry out an integrated analysis using the software StoX. As the biological strata in the integrated analysis will be based on biological samples in the whole North Sea, the results for the Tridens area will differ from the results presented in this report.

LOCATION

General Ocean Areas North Sea

Specific Geographic Areas

Link to Charts



ADDITIONAL INFORMATION

Parameters measured Electrical conductivity of the water column Fish abundance in water bodies Fish biomass in water bodies Fish morphology, age and physiology

Linkage / Report / Station list https://www.ices.dk/data/dataportals/Pages/acoustic.aspx

Instruments used CTD multi-beam echosounders pelagic trawl nets

57.19504 , -3.06272 Lon Leaflet | World Ocean Base Tiles © Esri

Project NHAS - NS Herring Acoustic Survey

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Instruments used

pelagic trawl nets

multi-beam echosounders

NHAS - NS Herring Acoustic Survey

CTD

Project

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Parameters measured

column

ADDITIONAL INFORMATION

Electrical conductivity of the water

Fish abundance in water bodies

https://www.ices.dk/data/data-

portals/Pages/acoustic.aspx

Fish biomass in water bodies Fish morphology, age and physiology

Linkage / Report / Station list

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Marsden Squares (S, N, E, W)

Bounding Box	(es)		
West	East	South	North
-2.329102	7.514648	52.079506	57.715885

SUMMARY OF MEASUREMENTS AND SAMPLES

Туре	Quantity	Description	Reference date	PI	Organisation
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MARINE GEOLOGY

G014 Trawl	29 hauls	-	20.07.2023	Bram Couperus	<u>Wageningen Marine Research,</u> IJmuiden
G74 Multi-beam	2123	Track nautical	20.07.2023	Bram	<u>Wageningen Marine Research,</u>
echosounding	kilometres	miles		Couperus	IJmuiden

PHYSICAL OCEANOGRAPHY

H10 CTD stations	50	-	20.07.2023	Bram	Wageningen Marine Research,
	deployments			Couperus	<u>IJmuiden</u>

CREATION DATE

REVISION DATE

29.11.2023

20.02.2024