

No.50.

Some Hydrographic Results of a Multiple Ship Survey in the Southern North Sea  
in March 1955.

by

G. Dietrich.

Abstract.

In March 1955 the investigations, begun in the same month in 1952 and 1953, were continued. They concerned extension and mixing of the Southern North Sea waters, their plancton content and content of pelagic fish fry. Three research vessels ("Anton Dohrn", "Gauss", and "Uthörn") and three light-vessels ("P8", "Borkumriff" and by the obligingness of the Netherlands Met. Off. "Texel") took part. Besides, 12 Schaufelrad-current-meters were used for continuous measurements of vertical distribution of the currents.

The results which are given concern the features of the quasi-synoptical hydrographic conditions and their differences to those ones met in the former surveys. Results of the studies of the cross circulation in three different regions of coastal waters show that this form of water movement is far extended in the Southern North Sea, although it does not reach that importance observed in the waters northwest of Texel.

No.51.

Some Features from the Circulation in the Irminger Sea in June 1955.

by

G. Dietrich.

Abstract.

During the whole month of June investigations in the Irminger Sea were made with the fishery research ship "Anton Dohrn". They concerned problems of marine biology and of physical and chemical oceanography. Results given in this paper deal with the water circulation in the Irminger Sea particularly in the frontier zone of East Greenland and Irminger Current.

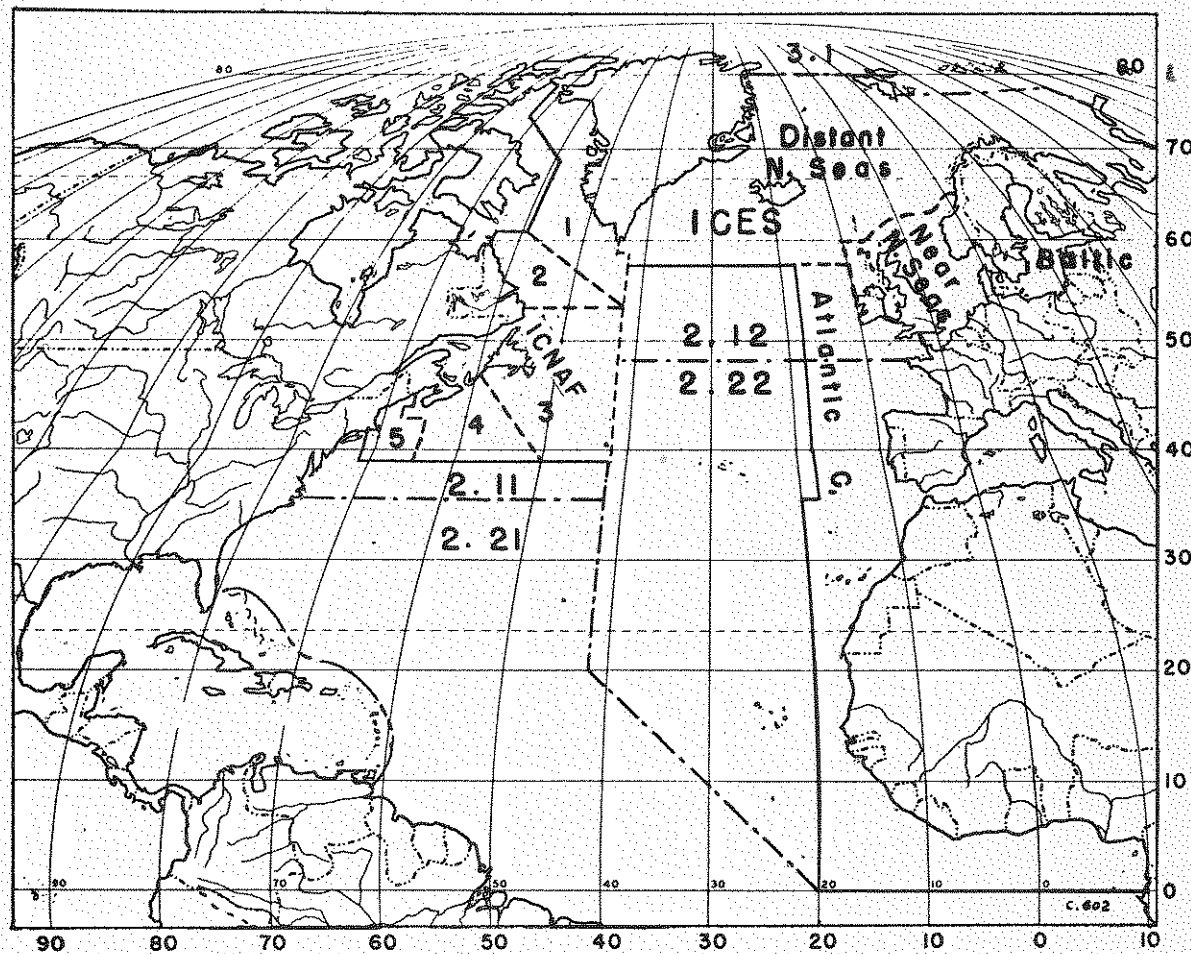


Figure 1

Administrative areas of the North Atlantic Ocean

- Boundary between areas
- - - Boundary between sub-areas
- · · Approximate boundary for Caribbean Fisheries Commission
- · - Boundaries for FAO Aquatic Resources Reference Survey Classification

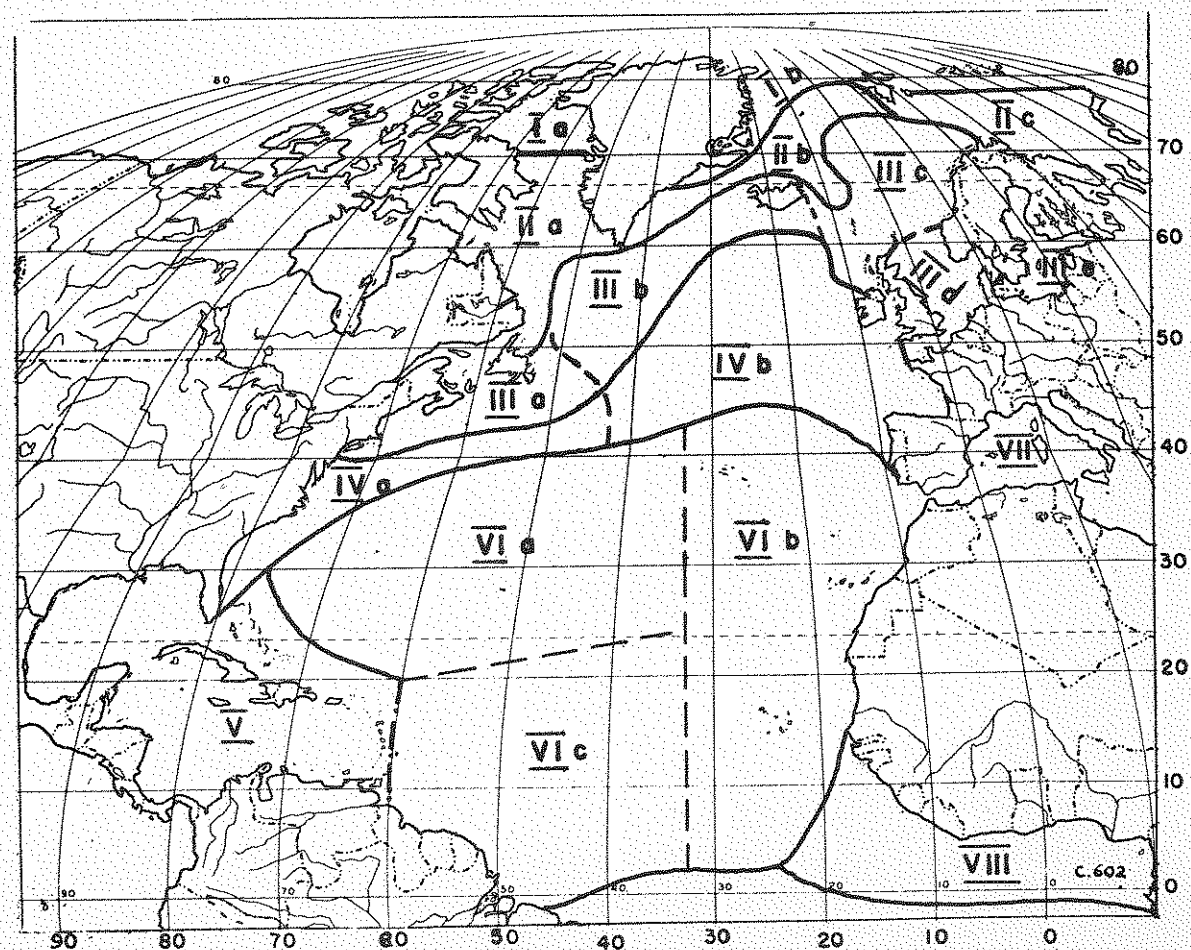


Figure 2

Natural regions of the North Atlantic Ocean

- I Atlantic Arctic Region
  - (a) Baffin Bay waters
  - (b) North Polar Sea waters
- II North Atlantic Sub-polar Region
  - (a) Labrador Waters
  - (b) East Greenland waters
  - (c) Barents Sea waters
- III North Atlantic Intermediate Boreal Region
  - (a) Newfoundland waters
  - (b) Irminger Gyral waters
  - (c) Norwegian - Faeroes Sea waters
  - (d) North Sea waters
  - (e) Baltic Sea waters
- IV Gulf Stream - Atlantic Drift Current Region
  - (a) Gulf Stream waters
  - (b) Atlantic Drift Current waters
- V Caribbean Sea, Gulf of Mexico Region
- VI Central North Atlantic Region
  - (a) Sargasso Sea waters
  - (b) Cape Verde waters
  - (c) North Equatorial Current waters
- VII Mediterranean Sea
- VIII Guinea Region