

OCEANOGRAPHIC RESULTS OF SNELLIUS EXPEDITION (1929-1930)

In 1950 the publishing firm of E. J. Brill at Leiden, Netherlands, brought out Part 6 of Volume II of the oceanographic results obtained from the 1929-1930 Snellius Expedition to the East Indian Archipelago, by its leader, P. M. van Riel, H. C. Hamaker, the expedition's physicist, and L. van Eyck. The vessel was commanded by Lieutenant F. Pinke.

Part 6 consists of tables giving serial and bottom observations as to temperature, salinity and density.

It is made up of 44 pages 22×31 cm. in size and contains a sketch showing tracks and 382 stations of the expedition in the East Indian Archipelago. Similar characteristics of physical oceanography investigated during the voyage from the Netherlands to the East Indian Archipelago were reported on pages 22 to 36 of Volume I.

The work contains approximately 7500 temperature and salinity observations carried out between the surface and sea-bottom. Bottom depths were deduced by thermal measurement or by wire and echo sounding. The depths of serial observations were determined from readings of the measuring wheel checked against readings of a protected and unprotected thermometer attached to the reversing water bottle. In order to correct irregularities in temperature observations, curves were drawn for stations where several observations had been made. The same method was followed in a number of cases with regard to salinity measurements.

In the case of depths exceeding 1000 m., potential temperatures were computed by using the Helland-Hansen tables and graphs appearing in the "Report of the Scientific Results of the *Michaël Sars* North Atlantic Deep Sea Expedition, 1910".

Densities were computed from a table based on "Knudsen's Hydrographic Tables, 1901", extended by Mr. L. van Eyck, and checked against D. J. Matthew's Tables, published in 1932 by the Permanent International Council for Exploration of the Sea, Copenhagen.

NOTE. An account of the expedition of H.N.M.S. "*Willebrord Snellius*" by Captain J. L. H. Luymes, Director of the Netherlands Hydrographic Office, appeared in Vol. VII, No. 1, May 1930, of the *Hydrographic Review*, pp. 142-160, and on pages 65 to 67 of Vol. VIII, No. 2, November, 1931, with a sketch showing the geographical positions of the expedition's stations in the East Indian Archipelago.

