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## Bottom Temperature and Salinity in the North Sea during the ICES Young Herring Survey in February 1977

by

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On the basis of the hydrographic observations carried out during the ICES Young Herring Survey in 1977 charts showing the distribution of bottom temperature and bottom salinity in the North Sea have been prepared. Only the data collected within the month of February were used. The charts are presented in this document.

Furthermore, a comparison of bottom temperature and bottom salinity in February 1977 with the long-term means was undertaken. As standards were used the February mean charts of the publications referred to below, i.e., the base period is 1902-1954. All stations worked in February 1977 were plotted in enlarged mean charts. The long-term means at these points were interpolated and the 1977-values compared to them. The last two figures of this document show the result of the comparison. In the figures isanomals of bottom temperature and bottom salinity, respectively, have been drawn. Areas of negative anomalies are hatched in the figures.

The figure illustrating the distribution of the temperature anomaly shows a clear preponderance of negative anomalies. Only in minor regions, however, the anomaly exceeds -0.5°. Positive anomalies are limited essentially to an area in the south-eastern part of the North Sea; anomaly values above 0.5° are virtually confined to a tongue extending towards north-east from the Southern Bight.

Negative salinity anomalies are dominating in the northern part of the North Sea, but also found in a tongue stretching from the Southern Bight towards north-east; only in a few small patches the value exceeds -0.2%. In the central and southern North Sea there is a pronounced preponderance of positive anomalies, which in some regions exceed 0.2%; in the German Bight the anomalies exceed 0.5%, in minor patches even 1%.

## References

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