

Scottish Meteorological Society, Mr. Buchan, with regard to the temperature of the sea on the coasts of Scotland.

5. From the publications of the Norwegian Institute on sea-temperatures between Norway, Scotland, and Iceland.

6. From the data furnished by the Danish Rear-Admiral Irminger on sea-temperature between Denmark and the Danish settlements in Greenland.

7. From the observations made by Earl Dufferin on board his yacht 'Foam' between Scotland, Iceland, Spitzbergen, and Norway.

And finally, from the recent observations collected by the English, Swedish, German, and Russian expeditions to the arctic regions and towards the North Pole.

Dr. Petermann has devoted the special attention of a great part of his life to the distribution of heat on the surface of the ocean, and the accuracy and conscientiousness of his work in every detail are beyond the shadow of a doubt. Plate VII. is in the main copied from his charts, with a few modifications and additions derived from additional data. The remarkable diversion of the isothermal lines from their normal course is undoubtedly caused by surface ocean-currents conveying warm tropical water towards the polar regions. This is no matter of speculation, for the current is in many places perceptible through its effect on navigation, and the path of the warm water may be traced by dipping the thermometer into it and noting its temperature.

In the North Atlantic every curve of equal temperature, whether for the summer, for the winter, for