

PROF. BACHE ON THE GULF STREAM.

ITS HISTORY AND CHARACTER.

How the Rhodanus Current from the Straits of the New York Packets a Fortnight.

DR. FRANKLIN AND THE HULL'S SHIPPER.

THE HOT STREAM AND THE COLD WALLS.

COAST SURVEYS—THEIR RESULTS.

How the Indicators on their course.

On Thursday evening, on the anniversary of the Geographical Society, Professor Bache delivered a lecture in the chapel of the New York University.

The Norwegian packets who found upon the coast strange fruits or grains of kinds which in that region did not produce, and carefully preserved them as curiosities.

The great part which the heat of the sun plays in disturbing the equilibrium of the surface of our globe is well understood. Wherever he shines upon the surface the air resting upon it is set in motion, so that the circle of the sun's illumination as it advances over the earth is a circle of disturbance.

It is beautiful, on some calm summer's morning just as the day has begun to dawn, to look from the top of a high hill upon the quiet of the plain below.

As the sun rises, the air gradually cools during the night, and the valleys are filled with a dense fog, which is gradually dispersed by the sun's rays.

The first making, as is most probable, the draft of the Gulf Stream, and the other the Asiatic stream.

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It was a matter of course that the first problem to be solved was the direction of the current, which was ascertained by the observations of the instruments.

The observations of numerous British and American navigators in private and public service, observing either from motives of interest and curiosity or by order of government, have been collected by Lieut. Maury.

As the temperature of the Gulf Stream is one of the most striking and important features, it was to the first of these that the attention of the Coast Survey was directed.

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It shows a moderate decrease of temperature to some ten or twelve fathoms below the surface, and then a rapid fall to a temperature of thirty-two degrees Fahrenheit.

The first portion of the current was there where the water was warm, and the second portion was where the water was cold.

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They present a width of five fathoms proper from the surface to the bottom, and a depth of water of fifty miles at Sandy Hook.

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