

mines the circulation in the Atlantic north of the latitude of Cape Hatteras produces a decided change in the weather, and a more or less decided effect on the wind. And yet here again the myth obtrudes, and the phenomena are glibly attributed to the shifting of the Gulf Stream, which is very shifting itself, and on the occasion of the anti-cyclone the wind currents of the anti-cyclone."

BEN FRANKLIN'S DISCOVERY.

Mr. Watts thinks it is high time "that warning should be given bottle theory" of Maury, should be water quietus, and

tells us that for a clearer view we need to not only give up the Guir Stream but the anti-cyclope, but "looking past Mary's hark back to Dr. Benjamin Franklin to get the true perspective of the development of the Guir Stream theory and its domination in the imagination of civilized people." It was Franklin's mission to England in behalf of the colonies (Dr. Aprinland in the U.S. in 1754) that led to the

temperature of the air and of the water of the ocean. These were the historical temperature records which first demonstrated that the thermometer alone could not tell the shipmaster a certain method of determining one's approach to the Gulf Stream, and consequently the longitude, which was often more guessed at than it was known on those days. It was

Franklin who, in 1770, had the first chart of the Gulf Stream engraved for the benefit of navigators, and one can fancy the joy of the physicist overcoming the chagrin of the statesman when he found his records sustaining his contention "that navigation could make the Gulf

Stream its handmaiden by sailing with its current going east and avoiding the coming west, and that, this side of Newfound, the thermometer could tell him where he was, so that he could govern himself accordingly."

pressed his navigation charts, that he might not aid the enemy, and did not take up his investigations again until the revolution was a thing accomplished. Not until after his death in 1790 did navigators generally adopt his plan with the result that voyages were made with less delay than were before.

Mr. Watts tells us that Franklin laid it down that the permanent winds of the "trades" were the initial cause of the Gulf Stream. "Though wrong in part," he was correct in this, that the permanent aerial circulation of the North Atlantic is an important factor in determining the Gulf Stream.

mining the aqueous surface drift; and future investigators had followed his lead, science would not at the beginning of the twentieth century still stand helpless before the almost universal acceptance of an erroneous theory developed half a century later."

LIEUT. MAURY'S THEORY.

Lieut. M. F. Maury, one of the most gifted scientific writers America has ever produced, "gave the Gulf Stream its apotheosis" in his "Physical Geography of the Sea," published in 1855. "By the force of his rhetoric and the simplicity of his analogies he drove home and fixed his views to such an extent that popular imagination was fired to actual

conviction." Maury set his face against the Franklin idea that the trade winds were in any sense the cause of the Gulf Stream, and referred to it as a "Jet" of warm water more than three thousand times greater in volume than the Mississippi River, sent entirely across the Atlantic Ocean," and ascribed to it the ameliorating influence upon the climate

The real truth, as determined by the modern science of meteorology, is that "the circulation of air in the northeastern part of the Atlantic determines the climate of Western Europe by distribution of heat from the sun."

"The warmth of the southwest winds of Europe is due to the moisture they contain, which gives off its latent heat when it becomes cloud and rain. The winds take up this moisture from

surface of the ocean when the latter warmed by the sun, and would do same were there no Gulf Stream. "The effect of the transfer of water to the shore of Western Europe by the Gulf Stream is inappreciable compared with the transfer of moisture

cloud and warmth by the wind; in fact observations fail to show that there is any warm water transferred to Europe by the Gulf Stream.

"The Gulf Stream is the result of interchange of water between the cold northern and the warm equatorial

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