R. H. Loughridge

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PROCEEDINGS

OF

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FOR THE

ADVANCEMENT OF SCIENCE,

THIRTIETH MEETING,

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SECTION A. MATHEMATICS, PHYSICS AND CHEMISTRY.

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ON RECENT DEEP-SEA SOUNDINGS IN THE GULF OF MEXICO AND CARIBBEAN SEA, BY THE U. S. COAST SURVEY. By J. E. HILGARD, of Washington, D. C.

[ABSTRACT.]

OWING to the absence of Mr. Hilgard, this paper was presented by Mr. W. H. Dall on the part of the U. S. Coast and Geodetic Survey. It consisted mainly of the exhibition of a relief model of the Gulf of Mexico and of manuscript charts from data obtained during the recent operations of the Survey in the Caribbean Sea.

The physical characteristics of both basins were thus shown and the attention of the Association was directed by Mr. Dall to the more remarkable features of the sea bottom developed by the investigations referred to.

[A detailed account of the principal results will be found in an article by Prof. Hilgard entitled "The basin of the Gulf of Mexico," printed in the American Journal of Science and Arts, vol. xxi, p. 288, April, 1881, and in the Bulletin of the Museum of Comparative Zoölogy, vol. v, No. 14, in a letter from Prof. Agassiz to the Superintendent of the U. S. C. and G. Survey.]

COMPARISON BETWEEN THE YARD AND METRE BY MEANS OF THE REVERSIBLE PENDULUM. By C. S. PEIRCE, of Baltimore, Md.

[ABSTRACT.]

Two reversible pendulums have been constructed, one measuring approximately a yard between the knife-edges the other a metre. These two pendulums will next winter be swung simultaneously, the metre pendulum being kept at 0° C. and the yard pendulum at 60° F. during the operation. The metre pendulum will then be compared at 0° C. with a standard metre which will be forwarded to Breteuil; and the yard pendulum will be compared at 60° F. with a standard yard which will be officially compared in England. In this manner it is expected to determine the ratio of the metre to the yard with greater exactitude than has yet been attained.

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