

typically developed. An adequate description of garronite, under the now abandoned term "augite-biotite-diorite", will be found in the *Quart. Journ. Geol. Soc.*, xc, 1934, 609-611, and a further discussion appears in the *GEOL. MAG.*, LXXIII, 1936, 560-2. The fact that a complete description of the rock exists should have made this prolonged discussion, as to the meaning of a name, unnecessary.

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A PLEISTOCENE STRAND LINE IN THE VALE OF YORK.

SIR,—Mr. Wilfrid Edwards has recently described "A Pleistocene Strand Line in the Vale of York" (*Proc. Yorks. Geol. Soc.*, xxiii, 103), which he believes to be of pre-Hessle age. A part of his paper is, however, devoted to a consideration of the terraces of the Rivers Aire and Calder, from which the conclusion is drawn that the Lower (or 10 ft.) Terrace "fans out into the surface of the great mass of clays, silts, and sands which fill the Vale of York up to about 25 feet O.D."; and that the Higher (or 20 ft.) Terrace is to be correlated with the strand line and the Leeds *Hippotamus* deposit. This may lead to serious confusion if allowed to pass unnoticed.

Mr. Edwards has himself observed that: "There is indeed a marked discrepancy in level at Ferrybridge, where the beach is perched on the hilltop at 80 to 100 feet O.D., above certain patches of sand at about 50 feet O.D., which appear to be of Higher Terrace age." One might have supposed this spectacle of a river terrace some 40 feet below its presumed base-level would have caused Mr. Edwards to reconsider his hypothesis and look elsewhere for a less ambiguous example of a 20 ft. terrace. Terraces at this height fan out into the sands and silts which fill the Vale of York up to about 50 feet O.D.; they do not end on the 100 ft. level of the strand line.

In regarding the Leeds *Hippotamus* deposit as indicating an interglacial period, Mr. Edwards has arrived at a conclusion which I also reached, a couple of years ago (*Glacial Geology of Holderness and the Vale of York*, 88). On the other hand, the 20 ft. terrace is of late Hessle age.

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YORK.
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