

repetition of strata there is elimination of several thousand feet. The lateral shift of 5 km. mentioned by Dr. Busk is of similar magnitude to numerous examples I have studied, and the total slip of the uppermost strata over the lowest must be at least 10 miles.

The "thrust plane" of our original paper is undoubtedly one of these slip planes, which I hope to describe in detail when I return to England next year.

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LOBITOS,  
TALARA,  
PERU.  
2nd August, 1931.

#### COAL MEASURE FLORAS.

SIR,—I should like to be allowed to draw attention to the important conclusions reached by Dr. R. Crookall in his recent "Critical Revision of Kidston's Coal Measure Floras" (*Proc. Roy. Phys. Soc.*, xxii, 1931, p. 1). The supposed absence of any equivalent of the Lanarkian Series in South Wales, maintained on palaeobotanical evidence, has been disputed by workers on both marine and non-marine faunas, and it is gratifying to find that Dr. Crookall now recognizes that its supposed absence was due to inadequate collecting. Dr. Crookall also shows that a portion of Kidston's Westphalian (now known as Yorkian) in Yorkshire is equivalent to a portion of his Lanarkian in Scotland. Similar conclusions have been reached independently by Miss E. Dix, and it therefore appears that there is no serious discrepancy in the correlations based on faunas and floras (cf. Dix, Pringle, and Trueman, *The Naturalist*, 1930, p. 324).

Dr. Crookall proposes for the present to retain Kidston's term Lanarkian and to include in it, broadly, the Lower Coal Measures and Millstone Grit of Yorkshire and their equivalents. He would place the top of the Lanarkian in Stirlingshire at approximately the level of the Auchingane Coal, whereas Kidston in 1916 selected the Ell Coal; this change involves transferring to the Yorkian about three-quarters of those Scottish Coal Measures which Kidston placed in his Lanarkian, and at the same time transferring to the Yorkian a great number of the records which constituted Kidston's Lanarkian flora. It is apparent that Kidston's term Lanarkian was ill-defined, both palaeontologically and stratigraphically, and has already led to much confusion; I hope Dr. Crookall will agree to a revised terminology when the sequence is sufficiently known.

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4th October, 1931.

[As the above letter suggests a revision of Coal-measure terminology, the Editor, as a Yorkshireman, ventures to express his