

RAISED BEACHES IN THE OUTER HEBRIDES.

SIR,—I have read with considerable interest the short section on Raised Beaches in the recently issued *British Regional Geology—Scotland, The Northern Highlands* (2) (pp. 95–6), and am surprised to note that “There are no raised beaches in the Outer Hebrides”.

On the remote island of North Rona, lying some 45 miles north-west of Cape Wrath and a like distance north-east of the Butt of Lewis, a deposit of fine-grained cemented material, enclosing fragments of both local and alien rocks, has been found some 30 feet above the present sea-level (4). Also on Roareim of the Flannan Islands, some 20 miles west of Gallan Head in Lewis, there is a similar deposit at a height of nearly 150 feet (5). Though small, both these deposits resemble the last remnants of raised beaches, which have suffered severely from subsequent (present-day) marine erosion, and have a similar appearance to the 30/50 ft. beach at Balnakiel, Durness, which has been described by D. M. Reid (3).

It also appears to have been overlooked that Professor Gregory has recorded a 10 ft. raised beach at Loch Maddy in North Uist (1).

In mentioning the Flannan Islands I should like to correct a clerical error that was missed in the proofs. On line 16 of page 115 and on line 6 of page 116 of the *GEOLOGICAL MAGAZINE* of 1933 “Eilean Ghobha” should read “Roareim”. This error was subsequently corrected in my book *Ronay* (6).

- (1) GREGORY, J. W. “A Raised Beach on the Outer Hebrides,” *First Report of the Commission on Pliocene and Pleistocene Terraces*, International Geographical Union, 1928, 119.
- (2) PHEMISTER, J. *British Regional Geology—Scotland, The Northern Highlands*, Edinburgh, 1936, 95–6.
- (3) REID, D. M. “On a Raised Beach on the North Coast of Scotland,” *GEOL. MAG.*, LXVI, 1929, 177–180.
- (4) STEWART, MALCOLM. “Notes on the Geology of North Rona,” *GEOL. MAG.*, LXIX, 1932, 179–185.
- (5) ——— “Notes on the Geology of Sula Sgeir and the Flannan Islands,” *GEOL. MAG.*, LXX, 1933, 177–180.
- (6) ——— *Ronay; A Description of the Islands of North Rona and Sula Sgeir, etc., to which is appended a short account of the Seven Hunters, or Flannan Islands*, London, 1933.

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