

## CALCEOLA SANDALINA.

SIR,—Respecting the paper of Rev. T. R. R. Stebbing, “Notes on *Calceola sandalina*, Lam.,” in the February Number of the GEOLOGICAL MAGAZINE, I must call the attention of English geologists to another paper on the same subject, published 1869, in the “Zeitschrift der Deutschen geologischen Gesellschaft,” pp. 647–688, pl. xviii. and xix.

The author, Dr. Kunth, of the University of Berlin, (one of our most promising and cleverest geologists, and one of the most deplored victims of the French rifle bullets at the battle of Saarbrücken, 1870,) has explained in this paper, in a most satisfactory and complete way, as he used to do in all his papers, the structure, the law of crescence of *Calceola sandalina*, and its relation to the other Palæozoic Zoantharia rugosa, and to the recent Corals. (See also his paper in the same journal, 1870, pp. 24–43, pl. i.) This, I hope, will keep the priority to the more complete paper of Dr. Kunth.

UNIVERSITY OF MARBURG, GERMANY,  
February 19th, 1873.

A. VON KOENEN.

## THE AGE OF THE NORTH OF ENGLAND ICE-SHEET.

SIR,—In replying to Mr. Fisher’s letter in your last Number, I am happy to say that I had read his valuable papers, and with much interest; but when using the word “trail,” I meant it in its ordinary English sense, and not in that special sense to which he would appropriate it. Nor was I referring to his papers when using the word; for I am not aware that he has called attention to that particular phenomenon, the overturning of basset edges, which I was describing when I employed it. So far as I understand from Mr. Fisher’s writings, his “trail” is almost a synonym for *till*, except that he applies it to the till of what he considers a particular epoch.

Mr. Fisher objects to my speaking of “the Glacial Period”: I must be content to shield myself behind eminent geologists, who have done, and still do, the same when speaking of general glacial phenomena or of deposits of indeterminate glacial age.

As to the age of the Ice-sheet of the Irish-Sea basin, I am unable to say whether or no it is synchronous with Mr. Fisher’s Trail Period. I have already tried to show that it was subsequent to the occupation of West Yorkshire, Lancashire, etc., by the Mammoth, tichorine Rhinoceros, cave-hyæna, and cave-bear, and that these animals probably never returned to that area again.

It is quite possible that here too (as pointed out by Mr. James Geikie for Scotland) palæolithic man may have lived with these animals whose remains are associated with his works in the South of England. For certainly the complete absence of palæolithic implements and fauna over co-extensive areas which have been over-ridden by the Ice-sheet is a significant coincidence.

To whatever scene or act of the glacial drama we may assign the great ice-sheet, one thing is certain, that it was succeeded by a period of depression, well marked by marine sands and gravels up