

## SUSSEX AND SUFFOLK TERTIARIES.

SIR,—1. In the course of the last summer I obtained from the Red Crag at Butley, near Chillesford, the following forms :

<i>Pupa marginata</i> , L.	<i>Limnæa</i> sp.
<i>Limnæa pereger</i> , Müll.	<i>Planorbis complanatus</i> , L.
” <i>truncatula</i> , Müll.	

All the above are new to the Red Crag except the last. They were intermixed with marine shells.

Resting on the London Clay in the coast near Felixtow, I found a freshwater river deposit, containing amongst other shells *Cyclostoma elegans* and *Helix aspersa*. The bed is overlain by about two feet of gravel, and that again by the surface soil. The river has undercut the Boulder-clay to a considerable extent on each side.

The bed is worth notice, as the evidence that the above shells occur fossil in Britain is very meagre.

2. To the Shells listed by Mr. Godwin-Austen from the Mud-deposit at Selsey, I can add the following, two being altogether new to Britain, but living with *Lutraria rugosa* and *Pecten polymorphus* in the Mediterranean, making four southern forms, only found in this deposit.

<i>Pleurotoma (Mangelia) rupa</i> , Montagu.	<i>Trochus exasperatus</i> , Pennant.
<i>Littorina rudis</i> , Mason.	<i>Adeorbis subcarinata</i> , Montagu.
” <i>obtusata</i> , Linné.	<i>Solarium pseudo-perspectivum</i> , Brocchi
<i>Lacuna puteolus</i> , Turton.	<i>Turritella communis</i> , Risso. [(New).
<i>Rissoa parva</i> , Da Costa.	<i>Utriculus obtusus</i> , Montagu.
” <i>striatula</i> , Montagu.	<i>Patella vulgata</i> , Linné.
” <i>interrupta</i> , Adams.	<i>Chiton marginatus</i> , Pennant.
” <i>costulata</i> , Alder.	” <i>fascicularis</i> , Linné.
” <i>membranacea</i> , Desmarest.	” <i>siculus</i> , Gray (New).
” <i>striata</i> , Adams.	<i>Anomia ephippium</i> , Linné.
<i>Hydrobia ulvæ</i> , Pennant.	<i>Ostrea edulis</i> , Linné.
<i>Odostomia plicata</i> , Montagu.	<i>Cytherea chione</i> , Linné.
” <i>indistincta</i> , var. <i>subturnatis</i> , Philippi.	<i>Syndosmya tenuis</i> , Montagu.
” <i>pallida</i> , Montagu. [lippi.	<i>Saxicava rugosa</i> , Linné.
<i>Trochus lineatus</i> , Da Costa.	<i>Corbula gibba</i> , Olivi.

For the determination of the more critical forms I am indebted to Mr. J. Gwyn Jeffreys. ALFRED BELL.

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DISCOVERY OF *BOS PRIMIGENIUS* IN THE LOWER BOULDER-CLAY OF SCOTLAND.

SIR,—Mr. Geikie, in reply to my note on the above subject (in the October Magazine), reads a lecture on my assumed ignorance of what constitutes Boulder-clay—the gratuitous assumption cannot alter the facts of the case in question. If a Glacier has deposited the beds of sand and earthy clay that fill two small basins that overlie the stratified bed, in which the *Bos* was found, it must have been very different from the one that preceded the stratified bed. The latter has left evidence of its passage on the rocks of the valley; the former has left none on the soft mud-bed, over which it must have passed—this stratified bed being as smooth and undisturbed, as if newly deposited in a quiet lake. Not wishing to enter into a controversy with Mr. Geikie, I merely point out this fact for his consideration.

ROBERT CRAIG.

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