

" further extension overlies also the latter formation. The  
 " melaphyre-amygdaloid of Planitz, near Zwickau in Saxony,  
 " forms also a covering regularly inserted into the Rothliegende,  
 " above its inferior strata. On the western declivity of the  
 " Oberhohndorfer Hill, near Zwickau, the melaphyre which here  
 " contains numerous green-earth and calcespar amygdules, shews an  
 " interesting intercalation with the brownish-red slate-clays of the  
 " Rothliegende, irregular lumps and patches of which being as it  
 " were kneaded into the mass of the melaphyre. The melaphyric  
 " rock of the Johann-Friedrich and Zabenstadter Adit, in Mansfeld,  
 " is evenly interstratified in the Rothliegende. G. Leonhard  
 " mentions that in the Rothliegende of the neighbourhood of  
 " Darmstadt, at Götzenhain and Urberach, the melaphyre forms  
 " distinct outbursts of considerable size in the form of domes  
 " (*Kuppen*,) which consist in the centre of solid melaphyre, and  
 " towards the periphery of amygdaloidal rocks, and shews in  
 " places both flagstone-like and columnar separation. In Silesia  
 " the melaphyres appear in two places: in the country between  
 " Læwenberg and Læhn, where they, according to the investi-  
 " gations of Beyrich, occur in several courses, striking from  
 " north-west to south-east, intersecting the Rothliegende, and  
 " in still more extended measure at the edge of the great  
 " bay opening towards south-east in the Grauwacke at Landeshut,  
 " in which the carboniferous formation and the Rothliegende  
 " have been deposited, and in which they form, according to Zobel  
 " and Von Carnal, a range extending from Schatzlar to Neurode.  
 " In north-eastern Bohemia, according to Emil Porth, and  
 " Jokély, malaphyres are found as numerous, and sometimes very  
 " thick layers, in the Rothliegende. Jokély describes, in the  
 " district of Jicin, five beds of melaphyre in various parts of the  
 " Rothliegende, which exhibit very distinctly observable strati-  
 " graphical relations. They prove to be, for the most part, true  
 " melaphyre streams, which have flown like lavas, and in visible  
 " connection with undoubted vein-like outbursts. According to  
 " Porth, the neighbourhood of the melaphyre veins is frequently,  
 " for great distances round, a field of melaphyric ash and  
 " scorïæ."\*

From these quotations it is plain that, in Europe, melaphyres  
 only made their appearance during the Carboniferous and Permian

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\* Zirkel ; Petrographie. Vol. ii., p. 71.