

between the Deister and Süntel, there are a series of quarries, which furnish excellent information upon the sequence of the rocks. The strike of the beds runs from S.E. to N.W., with a very slight dip to N.N.E. The lowest beds consist of a very compact, blue limestone divided into thick beds, which is converted into quicklime in many limekilns. Upon this, separated by argillaceous partings, follow compact, oolitic, flaggy limestones with numerous examples of *Exogyra virgula*. Otherwise fossils are scarce; *Corbula mosensis*, Buv., is the one that occurs most abundantly. These beds, which according to Credner attain a thickness of about 120 mètres, belong to the Upper Kimmeridge. Upon them follow a thickness of about 12 mètres of dark, in part black, marly limestones and shaly clays, with occasional intercalated thin, hard, flaggy limestones, rich in fossils, especially *Exogyra virgula*, etc. These beds belong to the Lower Portland. Over these come the strata of the Upper Portland or the Eimbeckhäuser Plattenkalke, which cover the whole broad ridge of the Kappenberg, with a thickness, according to H. Credner,¹ of at least 88 mètres. They are on the whole poor in fossils; but *Gervillia obtusa*, etc., are more or less abundant upon particular slabs.

“On the northern slope of the Kappenberg the Plattenkalke are directly overlain by the Purbeck Marls, upon which, for example, the village of Nienstedt stands; they can also be traced along the road to Egestorf as far as the point where the forest road branches off towards the Cöllnische Feld; their thickness here amounts to about 80 mètres; above them follows the Serpultit.”

The following is the sequence in the neighbourhood of Hanover, as given by Strüeckmann in his paper “On the Parallelism of the Hanoverian and English Upper Jurassic Deposits, above referred to :

	ENGLAND.	HANOVER.
WEALDEN	{ Weald Clay. Hastings beds. Purbeck beds.	Upper Wealden. Middle Wealden. Purbeck (Serpulite) or Lower Wealden. Münder-Mergel as a transition between Purbeck and Portland.
PORTLAND	{ Portland Stone. Portland Sand. }	Eimbeckhäuser, Plattenkalke. Zone of <i>Ammonites gigas</i> .
KIMMERIDGE	{ Upper Kimmeridge Clay. Lower Kimmeridge Clay. Kimmeridge Passage Beds.	Upper Kimmeridge or <i>Virgula</i> Beds. Middle Kimmeridge or <i>Pteroceras</i> Beds. L. Kimmeridge (Astartian) = <i>Nerinea</i> beds & Zone of <i>Terebratula humeralis</i> .
August, 1881.		J. M. & W. H. H.

A CORRECTION.

SIR,—Will you allow me to correct a mistake I made in a letter appearing in your August Number? Mr. Day’s simple method for determining the outcrop on any given surface of a bed or trough of known cylindrical form, by means of a shadow cast in direct sunlight, is equally applicable to the inverse proposition, viz., to determine the form of the trough, knowing the outcrop.

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SANDRIDGE VICARAGE,
ST. ALBANS, Aug. 27, 1881.

¹ Credner, *Ob. Jura*, p. 68.