

Southern Region Chalk Group

Lithostratigraphy: Bristow et al. (1997) - Newhaven Chalk

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The Newhaven Chalk, 50-75 m thick, equates with the greater part of the Newhaven Chalk of Mortimore (1986a). Comprising soft to medium hard chalk with regular marl seams and flint bands, the Newhaven Chalk is defined by a negative feature break at its base (approximately coincident with Buckle Marl 1 of Mortimore, 1986a) and a positive break of slope at its top (Bristow *et al.*, 1997). The stratigraphical position of the upper feature-forming boundary varies between the Meeching Marls (in the upper Newhaven Chalk of Mortimore, 1986a) and the Castle Hill Marls (at the top of the Newhaven Chalk of Mortimore, 1986a) of Mortimore (1986a) (Bristow *et al.*, 1997). The basal boundary is typically associated with abundant distinctively-shaped flints formed around the trace fossil *Zoophycos*.

At Whitecliff [SZ 639 856], Isle of Wight, most of the Newhaven Chalk is represented by an anomalously condensed succession of chalk with conspicuous hardgrounds lacking flints and marl seams, caused probably by a tectonic influence (Mortimore & Pomerol, 1997).

Macrofossil Biozonation: *U. socialis* Zone, *M. testudinarius* Zone, *U. anglicus* Zone, *O. pilula* Zone & (locally) basal *G. quadrata* Zone

Correlation: see Correlation with other Southern Region successions

see Correlation with other UK successions

References

BRISTOW, C. R., MORTIMORE, R. N. & WOOD, C. J. 1997. Lithostratigraphy for mapping the Chalk of southern England. *Proceedings of the Geologists' Association*, Vol. **108**, 293-315.

MORTIMORE, R N.1986a. Stratigraphy of the Upper Cretaceous White Chalk of Sussex. *Proceedings of the Geologists' Association*, Vol. **97**(2), 97-139.

See: Newhaven Chalk (Mortimore, 1986a), marl, flint, Buckle Marl 1

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