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Category:Belemnite zonal scheme of Christensen (1995) for the Upper Campanian and Lower Maastrichtian of Norfolk

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Overview

Christensen (1995) recognised that many of the species concepts of *Belemnitella* in the Upper Campanian of Norfolk were poorly founded and difficult to apply, and noted that there was little widespread agreement about species concepts between researchers. To overcome these difficulties, Christensen (1995) undertook a detailed biometric analysis of *Belemnitella* populations in the Upper Campanian of Norfolk, and proposed several new species and a revised belemnite zonation for the succession. Christensen's (1995) approach is based on statistical analysis of measurements taken from numerous guards of *Belemnitella*, the results of which are then used to define species concepts. The stratigraphical ranges of the specimens belonging to these species are then used to define a biozonation. Many previously defined species of *Belemnitella* have been based on a qualitative assessment of external characteristics the value of which is questioned by Christensen (1995).

The bases of some of Christensen's (1995) zones and subzones are not precisely defined because of stratigraphical gaps in the Norfolk succession, and they are therefore regarded as informal concepts. The applicability of this zonation outside Norfolk has not been tested.

Descriptions of the *Belemnitella* zones of Christensen (1995) in the Upper Campanian and Lower Maastrichtian of Norfolk

The key features of the Upper Campanian *Belemnitella* zones recognised by Christensen (1995) in Norfolk are described from oldest to youngest. Alternatively, to find out information about a specific zone, select it from the correlation table (correlation of Upper Campanian *Belemnitella* zones recognised by Christensen (1995) in Norfolk with the standard macrofossil zonal scheme, brachiopod zonal scheme of Johansen & Surlyk (1990) and local lithostratigraphy).

NB: *The species discussed below are based on a statistical analysis of measurements of morphological features. Therefore, recognition of the zones founded on these species cannot be readily made in the field from a visual inspection of the belemnite fauna.*

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