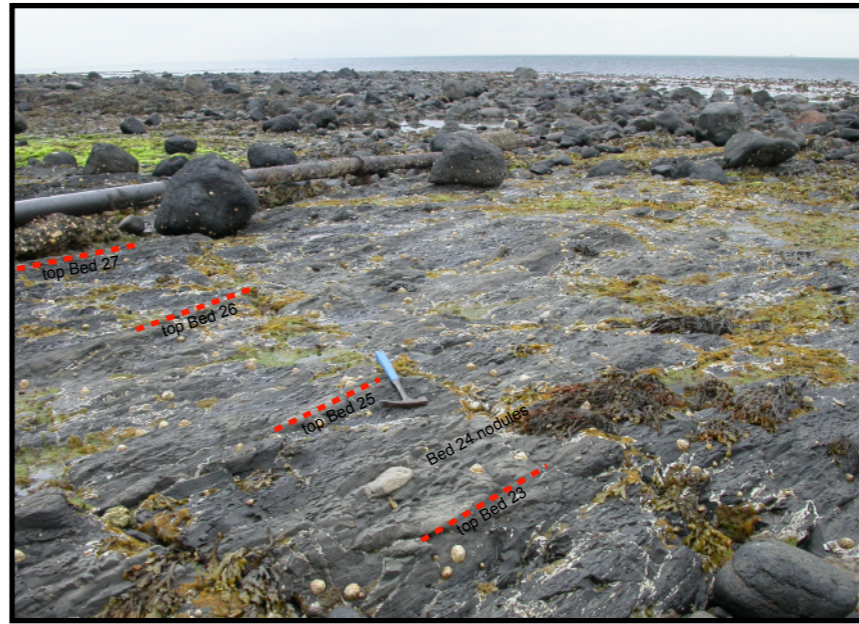
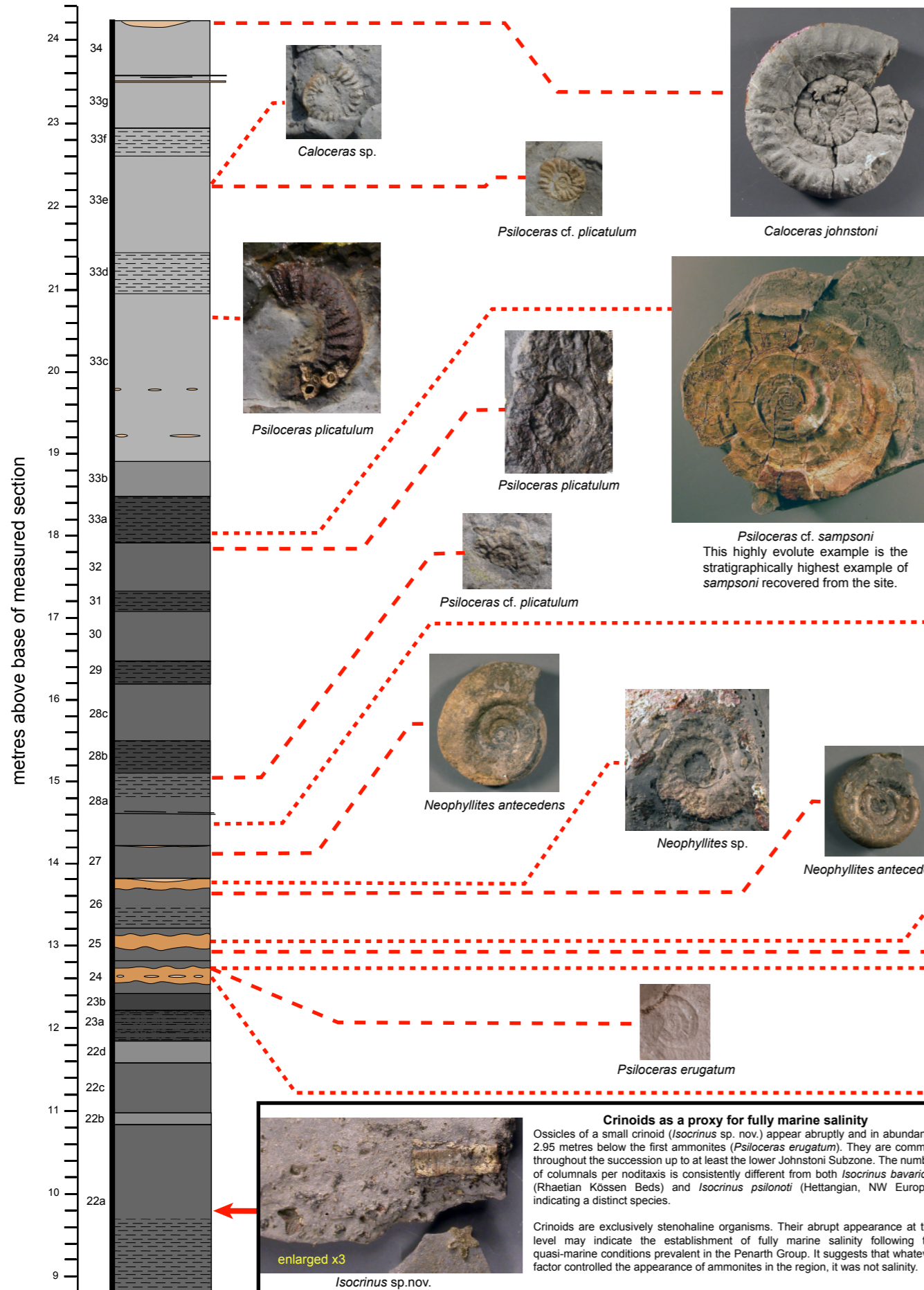


Waterloo Bay, Larne, Northern Ireland: The ammonites of the earliest Jurassic

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Ammonites are a conspicuous element of the earliest Jurassic macrofauna at this site. Most taxa are represented by at least some 3-dimensional material, preserved either in pyrite or early diagenetic carbonate concretions.

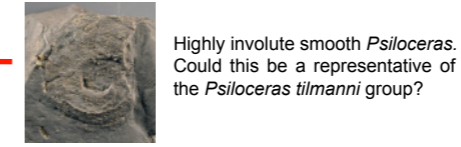
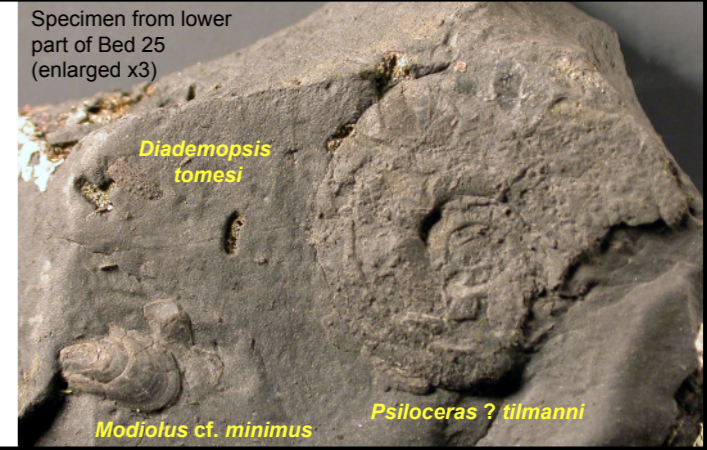
Selected specimens are illustrated here at actual size, unless indicated otherwise.

The strata in the picture to the left encompass the top of the 'Pre-planorbis Beds', the *erugatum* Horizon (Bed 24) and the stratigraphic range of *Neophyllites* (beds 25 to 27).

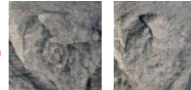
The site has significant potential for designation as a Global Stratotype Section and Point for the base of the Jurassic System. In addition, this part of the foreshore would make an ideal stratotype location for the *erugatum*, *imitans* and *antecedens* biohorizons, for which surface stratotypes have yet to be designated.

A diverse macro- and microfauna (ammonites, bivalves, gastropods, echinoids, crinoids, trace-fossils and occasional vertebrates) is present in the upper Penarth Group and Lias Group at Larne and is currently being documented.

Some published stratigraphic data already exist for fossil macrofauna and palynomorphs through correlative strata in the nearby Larne borehole (Ivimey-Cook 1975, *Bull Geol Surv. G.B.*, **50**, 51-69; Warrington and Harland 1975, *Bull Geol Surv. G.B.*, **50**, 37-50).



Highly involute smooth *Psiloceras*. Could this be a representative of the *Psiloceras tilmanni* group?



Evolute ammonite with costae apparently developed on the venter. Does this indicate the presence of *Choristoceras*, or is it merely a preservational artifact?



Psiloceras erugatum
This is stratigraphically the lowest ammonite recovered from the site. Ribbing persists unusually late in this large example.

To download a copy of these posters, and for further information about the Triassic - Jurassic boundary succession at Larne, visit the website at www.habitas.org.uk/larne

The authors of this poster contribution would be happy to assist any visitors to the site, and freely encourage others to contribute to its scientific investigation.