New Mississippian fish microvertebrate assemblages spanning a deepening marine environment, from St. Brendan's Well, Co. Clare, Ireland

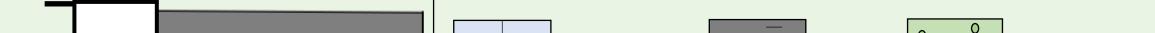
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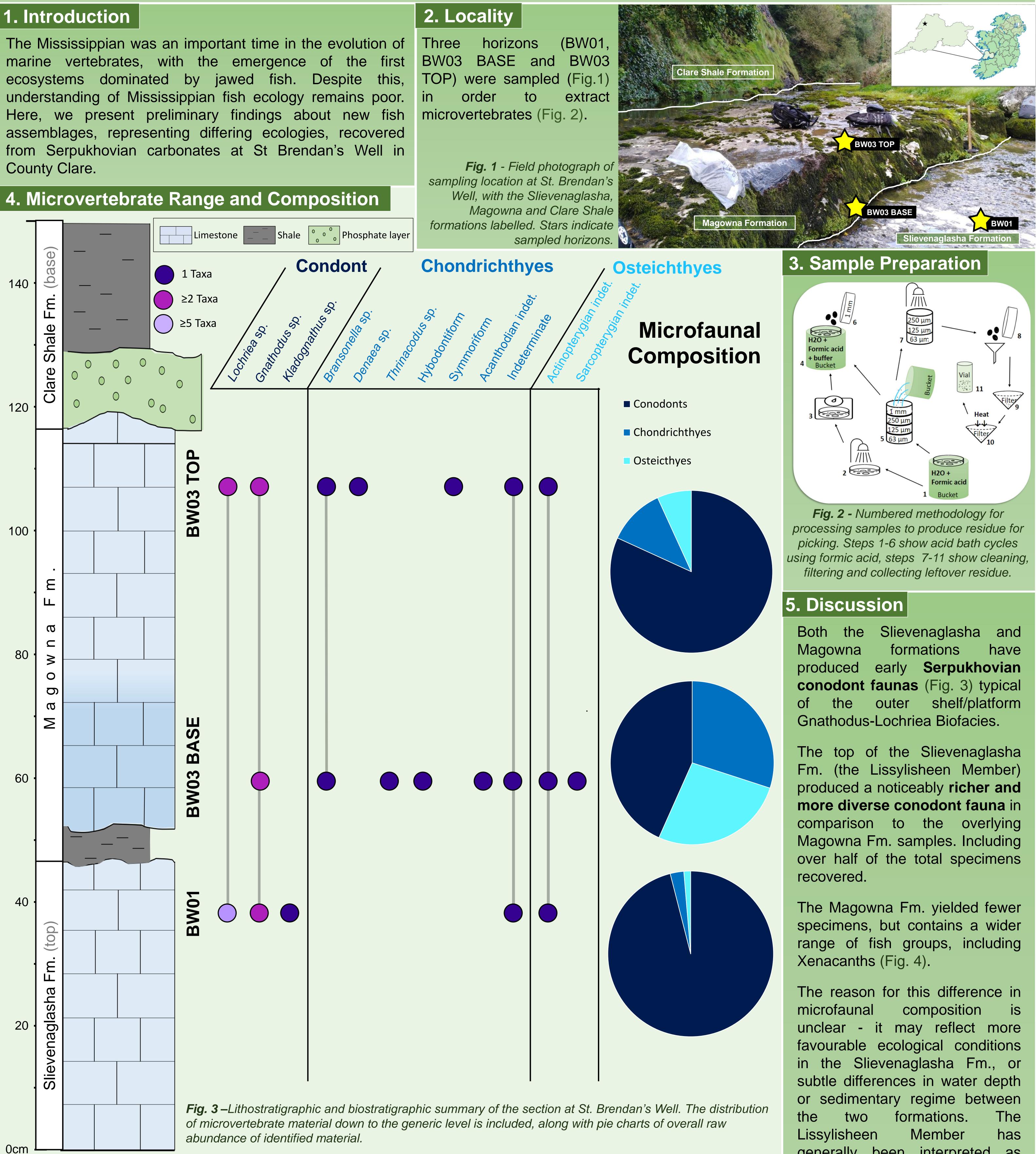


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(BW01, horizons **BW03** order to extract

Well, with the Slievenaglasha,



6. Xenacanthiforme Physiology

Xenacanthiformes have traditionally been considered to be freshwater sharks, restricted to rivers and lakes (Gray, 1988). Recent evidence has indicated that these sharks were euryhaline (Carpenter et al. 2011), allowing them tolerate a wide salinity range, permitting them to live in marine to freshwater environments.

The presence of the xenacanthiforme view) Bransonella in the Magowna Fm., a marine unit, supports a euryhaline adaptation in these fish.

Fig. 4 - Tooth of Bransonella (lingual 1mm

generally been interpreted as very shallow marine in character with a palaeokarstic top.

Xenacanth material The recovered from the Magowna Fm. possible shallow, suggest conditions; nearshore however, this is open to debate (Box 5).