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2.3.1. Lonzée Member - LON

Authors: Dumont (1878) and herein.

Description: From bottom to top:

-basal grey to green clay-silt, overlying Silurian bedrock, with many moulds of bivalves and gastropods;

-grey-green glauconitic clay-silt, with planar bedding; no macrofossils;

-blue clay with numerous bivalves, belemnites, shark teeth, teleosts, mosasaurs (thickness: up to 60 cm);

-fine grey sand with large blocks of glauconitic sandstone with many bivalves, belemnites, microfauna etc.(thickness: 145 cm);

-glauconitic, dark green-blue clays, with many bivalves, belemnites, shark teeth, fish vertebrae (thickness: 20 cm);

-indurated calcarenite and sand (thickness 15 cm);

-yellowish green or brown, glauconitic, very sandy clay, with numerous silicified shell fragments (thickness: 30 cm).

Stratotype: No stratotype fixed; at present there are no outcrops in the succession.

Area: Known occurrence of this member is restricted to the area around Lonzée near Gembloux (Namur)

Thickness: About 3 m (unpublished section drawn by M. Glibert in 1936).

Age: ? Coniacian – Santonian - ? basal Campanian:

Cephalopods: *Actinocamax verus, Gonioteuthis westfalica westfalica, G. westfalicagranulata, G. granulata, ? G. granulataquadrata.* Inoceramids: *Inoceramus (Heroceramus)* cf.*hercules, I. (Volviceramus)* cf.*koeneni*

Remarks: -Formerly considered as belonging to the Mons Basin: Marlière (1954, 1957), following data in Leriche (1929), considered the Glauconie de Lonzée as being the littoral extension of the Craie the Saint-Vaast (Saint –Vaast Chalk Formation, see above, p. ooo).

In their study of the bivalves Malchus *et al*. (1994, 1996) demonstrated that the Lonzée fauna is strongly related to the Vaals-Aachen fauna (Liège-Limburg Basin) and not at all to the faunas from the Mons –Paris Basin. Thus, Malchus*et al.* confirmed the view originally expressed by Rutot (1894). The belemnites at Lonzée indicate a Santonian age (Christensen, 1994), but the inoceramids are partially of Coniacian age (Malchus e*t al.*, 1994).

- References: Christensen (1994), Dumont (1878), Leriche (1929), Malchus *et al.* (1994, 1996), Marlière (1954, 1957), Rutot (1894).

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