

ON THE MACRO-FAUNA EXCLUSIVE OF THE CEPHALOPODS

JAN BERGSTRÖM

As mentioned above, this part of the fauna is treated provisionally in order to give at least a general idea of the composition. It is my hope that all the groups in this fauna will be treated by specialists on the respective groups. This may take time, and until it is done the present account may serve as a small guide. The species are not discussed but only recorded in tables 8, 9 and 10, and a few are figured in plate 13. The tables are arranged after three main modes of life, namely infaunal, epifaunal, and nektobenthic-nektic. These divisions do not correspond to communities, although it is evident that the nektobenthic-nektic faunas are largely independent of the benthic faunas, and that the benthic fauna in the Santonian beds is exclusively epifaunal. A scrutiny of the palaeoautecology is considered premature before the fauna is prepared and described in more detail.

As most of the material has not been stratigraphically collected and also because of the reworking of the older beds the provenance of the species is not known with full certainty in all cases. Where there is any doubt or uncertainty about the stratigraphical provenance this is marked by a question-mark in front of the name in the tables 8-10.

Dr. Annie Dhondt of Brussels kindly determined *Pecten cretosus*.

EPIFAUNA	a b	NEKTOBENTHOS AND NEKTON	c
Neolithyrina ciplensis (v Hanstein)	7		
? "Rectithyris" visae (Hadding)?	2		
Inoceramus sp.	1	Belemnitella propinqua propinqua (Moberg)	11
Exogyra obliquata (Pulteney)?	3	Goniatheuthis westfalica westfalica (Schlüter)	23
		Goniatheuthis lundgreni (Stolley)	5

Table 9. The macrofauna of the Santonian limestone of division A, Särda. Letter headings of columns: a, specimens with both valves preserved; b, left valves of bivalves; c, guards of belemnites.

EPIFAUNA	a b c	NEKTOBENTHOS AND NEKTON	d e
Demosponge spicules	+		
Corymbopora (?) sp.	+		
Reteporidae (?) sp.	c		
Fungella sp.	+		
Homeosolen sp.	c		
Semicytella sp.	+		
Pennipora? sp.	+		
Bryozoa indet.	+		
"Rhynchonella" (Cretirhynchia?) sp.	1		
"R." flustracea Buch?	0 3		
"Terebratula" praelustris Lundgren?	1		
Concinnithyrus ciplensis (v Hanst)?	1		
Terebratulina striata (Wahlenberg)	1 1		
Rhynchonina cf. spathulata (Wahl)	1 1		
Spondylus sp. (fragments)	+	Belemnitella propinqua propinqua (Moberg)	31
Ostrea marklini Lundgren	? 41	Goniatheuthis westfalica westfalica (Schlüter)	46
Lopha semiplana (J. de C. Sowerby)	3	Actinocamax verus Miller	1
Exogyra obliquata (Pulteney)?	1		
Ditropula? sp.	+		
Spirorbula? sp.	+		
Serpentula sp.	+		
Cirriped plates (one species)	28	Squalicorax lindstroemi (Davis)	1
Tylocidaris sp. (spines)	22	Isurus sp.	+
Cidaridaris sp. (spines)	5	Shark sp. B	3
		? Mosasaurian (probably redeposited)	1

Table 10. The macrofauna of the Santonian calcareous sandstone of division B, Särda. Numerals indicate number of specimens, the sign + that the form is present but the number uncertain, and c that the form is fairly abundant. Letter headings of columns: a, more or less complete individuals; b, various types of fragments or, in the case of brachiopods the pedicle valves, and in the bivalves the left valves; c, brachial valves of brachiopods and right valves of bivalves; d, guards of belemnites; e, vertebrate teeth.