

The purpose of this paper is to focus attention on Late Cretaceous calcareous nannofossils from the Southern Norwegian and Danish North Sea Area, with particular emphasis being placed on erecting a zonation scheme. In order to accomplish this the author has studied numerous Late Cretaceous well sections using core, sidewall core and in particular ditch cuttings samples. 19 zones and 9 subzones have been recognised for the area spanning the Maastrichtian to Cenomanian interval, and a comparison with the existing zonation schemes of Sissingh (1977, 1978) Perch-Nielsen and Prins (1979a) and Crux (1982) has also been undertaken.

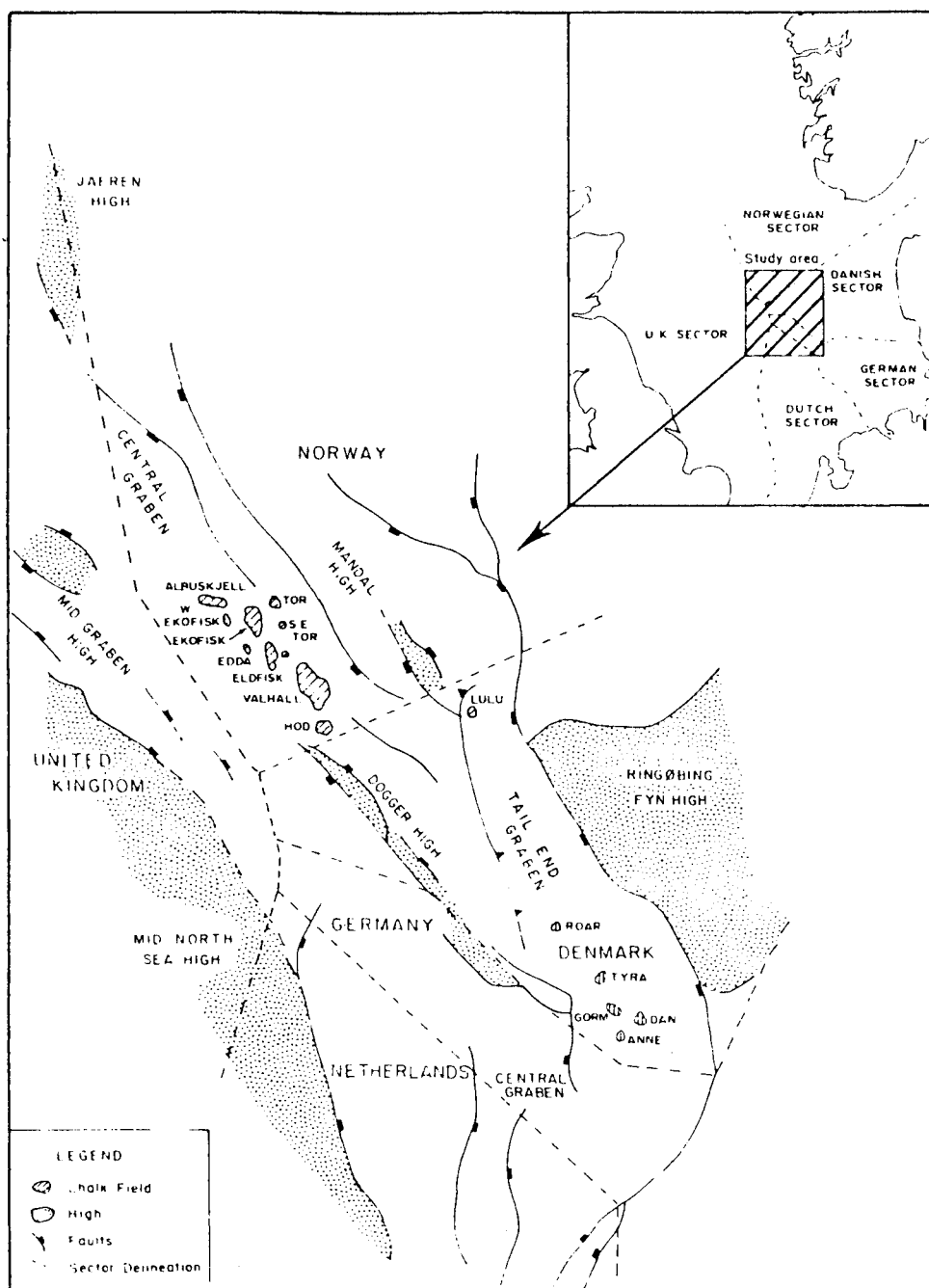


FIGURE 1 LOCATION MAP - SHOWING THE MAIN
 STRUCTURAL ELEMENTS FOR THE STUDY AREA

↑ First downhole occurrence
↓ Last downhole occurrence

• Abundant
• Common

* exact relationship between zonal boundaries used in this study and the zones used by Sissingh (1977, 1978) are uncertain.
* Lower Cretaceous zonation scheme after Taylor (1982)
+ 0 subzones after Perch - Nielsen, 1979b

AGE	SISSINGH (1977, 1978)			PRINS & PERCH - NIELSEN (1979a)		CRUX (1982)			THIS WORK			
	CALCAREOUS NANNOPLANKTON			CALCAREOUS NANNOPLANKTON		CALCAREOUS NANNOPLANKTON			CALCAREOUS NANNOPLANKTON			
	ZONE	ZONAL INDICATORS		ZONE	ZONAL INDICATORS	ZONES	SUBZONE	ZONAL INDICATORS	ZONE	SUBZONE	ZONAL INDICATORS	
TERTIARY PALAEO-GENE	LOWER	NOT EXAMINED			NP 2	FIRST ORKOLACOLITHUS TENUE			NP 2	D4 - D3	CROCOCOLITHUS SPARSUS	
					NP 1	FIRST BIATHLITHUS SPARSUS			NP 1	D2 - D1		
UPPER CRETACEOUS	MAASTRICHTIAN	26	Reinhardtites frequens	FIRST REINHARDTITES FREQUENS	26	LAST REINHARDTITES FREQUENS					Reinhardtites frequens	
		UPPER	C	A	Arxanagelsiella cymbiformis	FIRST LITHRAPHIDITES QUADRATUS	25	FIRST LITHRAPHIDITES QUADRATUS				
						FIRST ARXANAGELSIELLA CYMBIFORMIS						
						LAST REINHARDTITES LEVIS						
		24	Reinhardtites levis	LAST REINHARDTITES LEVIS	24	LAST REINHARDTITES LEVIS						Reinhardtites levis
		LOWER	B	A	Trionchus phaeceus	LAST ASPICOLITHUS PARCUS	23	LAST ASPICOLITHUS PARCUS				
	LAST REINHARDTITES ANTHOPHORUS											
	FIRST REINHARDTITES LEVIS					22	FIRST REINHARDTITES LEVIS					
	CAMPANIAN	UPPER	C	A	Quadrum tritidum	FIRST QUADRUM TRITIDUM	21	LAST QUADRUM TRITIDUM				
						LAST CERATOLITHOIDES ARCUATUS						
						FIRST CERATOLITHOIDES ARCUATUS						
		LOWER	B	A	Ceratothooides aculeus	FIRST QUADRUM TRITIDUM	20	FIRST QUADRUM TRITIDUM				
FIRST CERATOLITHOIDES ACULEUS												
LAST BURKHAETER HAYI						19	LAST BURKHAETER HAYI					
LOWER	B	A	Phanulithus ovalis	LAST MARTHASTERITES FURCATUS	18	LAST MARTHASTERITES FURCATUS					Phanulithus obscurus	
				FIRST BURKHAETER HAYI								
				FIRST ASPICOLITHUS SP. 1								
SANTONIAN	UPPER	B	A	Bronsonia parca (s. 1)	FIRST BURKHAETER HAYI	17	FIRST BURKHAETER HAYI					
					FIRST PHANULITHUS OBSCURUS							
					FIRST LUCIANORHABDUS CAYEUXII	16	FIRST LUCIANORHABDUS CAYEUXII					
	LOWER	B	A	Reinhardtites sinuoporus	FIRST REINHARDTITES ANTHOPHORUS	15	FIRST REINHARDTITES ANTHOPHORUS					
					FIRST LUCIANORHABDUS CAYEUXII							
					FIRST REINHARDTITES ANTHOPHORUS							
CONIACIAN	UPPER	B	A	Micula staurophora (s. 1)	FIRST MICULA STAUROPHORA (S. 1)	14	FIRST MICULA DECUSSATA					
					FIRST MARTHASTERITES FURCATUS							
					FIRST MARTHASTERITES FURCATUS	13	FIRST MARTHASTERITES FURCATUS					
TURONIAN	UPPER	B	A	Lucianorhabdus mairformis	FIRST LUCIANORHABDUS MAIRFORMIS	12	LAST EFFELLITHUS EXIMUS					
					FIRST LUCIANORHABDUS MALEFORMIS							
					FIRST QUADRUM GARTNERI	11	FIRST QUADRUM GARTNERI					
CENOMANIAN	UPPER	B	A	Microhabdus decoratus	FIRST MICROHABDUS DECORATUS	10	FIRST MICROHABDUS DECORATUS					
					FIRST EFFELLITHUS TURRISEFFELI							
					FIRST EFFELLITHUS TURRISEFFELI	9	FIRST EFFELLITHUS TURRISEFFELI					
LOWEN CRET.	UPPER	B	A	Prediscosphaera columata	FIRST PREDISCOOPHAERA COLUMNATA	8	FIRST PREDISCOOPHAERA COLUMNATA					
					FIRST PREDISCOOPHAERA COLUMNATA							

Figure 3. COMPARISON OF THE LATE CRETACEOUS ZONAL SCHEMES USED BY SISSINGH (1977, 1978), PERCH - NIELSEN AND PRINS (1979a), CRUX (1982) AND THIS WORK