Hydrographic changes push European common squid *Alloteuthis subulata* into Kiel Bay

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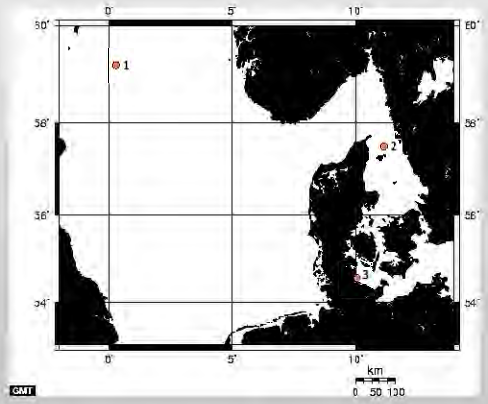
European common squid (*Alloteuthis subulata* Lamarck, 1798) were sampled from the by-catch of ICES bottom-trawl survey of FRV Walter Herwig III in the North Sea in February 2000, from collect survey of RV Littorina in the Kattegat in November 2000 and from survey of FS Alkor in Kiel Bay, western Baltic Sea in January 2001.



Map showing the study area:
1. St. n = 73, 2. St. n = 51, 3. St. n = 18

In total, 142 specimens of *Alloteuthis subulata* were collected. The collection included 51 % females and 46 % males. Dorsal mantle lengths (DML) varied between 25-85 mm in females and between 27-98 mm in males. Wet body mass ranged between 0,6-7,9 g in females and 2,1-8,7 g in males. Lower rostral lengths (LRL) varied between 0,31-1,07 mm in females and 0,42-1,15 mm in males.

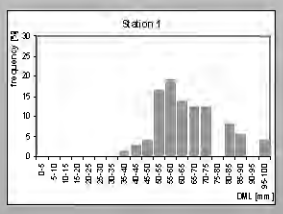


Fig.1

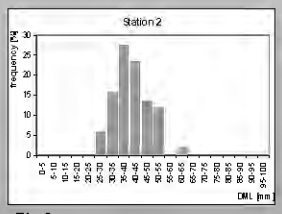


Fig.2

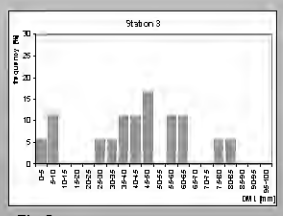


Fig.3

Fig.1-3 shows the frequency distribution of dorsal mantle lengths (DML).

A.subulata, ventral view
DML = 43 mm
M = 3 g

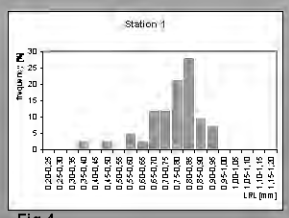


Fig.4

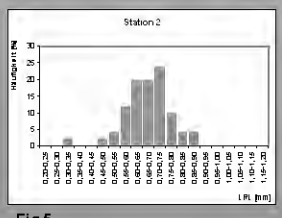


Fig.5

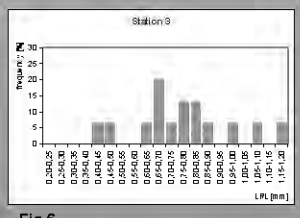


Fig.6

Fig.4-6 shows the frequency distribution of lower rostral lengths (LRL).

lower beak, LRL = 0,84 mm

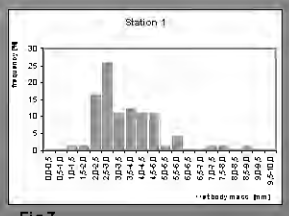


Fig.7

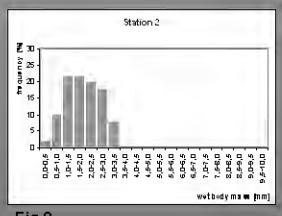


Fig.8

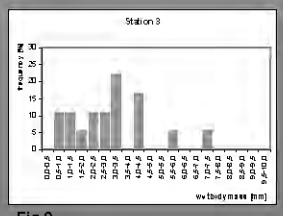
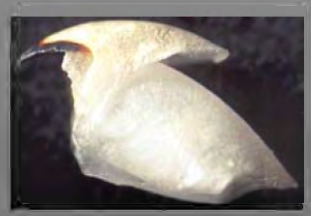


Fig.9

Fig.6-8 shows the frequency distribution of wet body mass.



upper beak, ULR = 0,92 mm