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Wery little is known about the vertical distribution of the unihorn octopus Scaergus unicirrhus Orbigny 1840, within the Mediterranean Sea (MANGOLD-WIRZ, 1963; SANCHEZ, 1966; MANGOLD & BOLETZKY, 1957), and information is particularly poor as regards the Sicilian Channel (IEREB & RAGONESE, 1990).
Although trophic and/or reproductive related vertical migrations are generally reported for octopuses, they have only been hypothesized for this species (Verany, in MANGOLD-WIRZ, 1963; SOPER et al., 1984), as no direct evidence was available.
An attempt to indirectly validate this assumption of vertical migrations was made, using data collected during two years (May 1985 to February 1987) of seasonal, randomly stratified trad services a correlation octopus (dig.). Due to the geographical and seasonal constraints however, a correlation of this variation with a migratory habit was not clear.
The seasonal changes in the mean values of the catches in number (C), of the individual body weight (BW) as well as those of the mantle length (DML) and of the gonadosomatic index (GW/BW) have been analyzed for different bathymetric strata (each stratum = 50 m.), for both sexes taken separately. A great variability was noticed and no cyclic pattern was almost never significant (at 95%) considering both the linear (Pearson coefficient : P) and the fank (Spearman coefficient : S) statistical approach utilized (see SOKAL & ROHLF, 1981, for statistical terminology). The gonadosomatic index in females and the numerical value of the spearled to be significatively correlated with depth (S = -0.425 and S = -0.445 seportevel yol why who both years were considered as a whole (i.e., combining seasonal (dat).
Baically, the abundance as well as the size variation and the maturity stages seem to be independent from bathymetry estreprised of the water in the three main "sub-respired tom bathymetry as were considered as a wh



Fig. - Occurence of S.unicirrhus in the different seasons.

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