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Reproductive Biology of the common Guitarfish, *Rhinobatos rhinobatos* (Linneaus, 1758), in the South-Eastern Mediterranean S.-H. ABDEL-AZIZ and S.-A. ABDEL-MAGUID

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common guitarfish, Rhinobatos rhinobatos, are ovoviviparous The fish which are abundant in the Egyptian Mediterranean waters. The present study indicated that R. rhinobatos reached maturity at 70 and 85 cm TL for males and females respectively. This finding is in full agreement with the results of Capape and Zaouali (1981) on the same species along the Tunisian coasts. The maximum sizes recorded in the present study were 172 cm for males and 181 cm TL for females. Mating occurs during the period from July to September. Two remains. Making occurs during the period from bory to september the ovulation periods exist, one in spring and the other in autumn; two broods are born year. Ova were observed in the uteri of all examined females shortly after parturition, which means that two broods are born each year. Active vitellogenesis observed in the pregnant females have been mentioned before by various McEachran and Capape (1984) mentioned that R. rhinoba the ovary of authors. a and Capape (1984) mentioned that R. rhinobatos rous fishes with one or two litters per year, of Capape (1985) mentioned that Rhinobatidae are among are 4-10 ovoviviparous are among the embryos. Selachians that reproduce several times per year. The species studied have a gestation period extending for 6-9 months. Active vitellogenesis in the ovaries was observed during the first vitellogenesis in the ovaries was observed ogestation period (March-August), while in the during the first second gestation period (August-October), vitellogenesis stopped. During the present study the largest embryo recorded was 30.2 cm, while the smallest one was 24.5 cm TL at birth. This means that size of the new born varies between 24 to 31 cm TL. Capape et al. (1976) rt the size at birth for R. rhinobatos was about 29 cm TL. reported that The average ovarian fecundity for R. rhinobatos according to the present analysis was 17.6 eggs, while the uterine fecundity was 11.8 (based ovarian an calculations from the two ovaries and the two uteri). Along the Tunisian coasts, Capape (1985) reported that the ovarian fecundity reached 6 eggs for R. rhinobatos and 6-9 for R. cemiculus while the uterine fecundity was 4-6 eggs for R. rhinobatos and 5-8 for R. cemiculus. However, this author did not explain whether his calculation were based on two or one ovary or uterus. Several authors have reported relationships between number of embryos and mother size suggesting that the bigger individuals produce more litters . The present study reveals the presence of a linear correlation between ovarian fecundity and mother size.

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