On a nesting of the loggerhead turtle (*Caretta caretta* L., 1758) along the Southern Coast of Sicily (Mediterranean Sea)

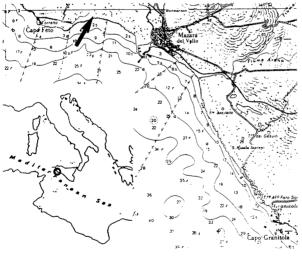
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Six species of marine turtles are reported from the Mediterranean Sea : Caretta caretta Chelonia mydas, Eretmochelys imbricata, Dermochelys coriacea, Lepidochelys kempii (MARQUEZ, 1990) and L. olivacea (MAIGRET, 1986).

Chelonia mydas, Eretmochelys imbricata, Dermochelys coriacea, Lepidochelys kempii (MARQUEZ, 1990) and L. olivacea (MAIGRET, 1986). Among these, the loggerhead turtle C. caretta is the most common and it is known to reproduce all over the area (DELAUGERRE, 1987); MARQUEZ, 1990). It is also the only species which was reported to nest along the Sicilian coasts and the small islands near Sicily (BRUNO, 1986; DELAUGERRE, 1987). In this note some information is given about hatching of C. caretta that occurred on the beach of "Tonnarella", along the Guif of Mazara del Vallo (southern coast of Sicily). "Tonnarella" beach is about 6 Km long and it is limited by the harbor breakwater and by "Capo Feto" on its east and west sides respectively (see Fig.). The area hosts the summer residents of Mazara del Vallo, and the beach is lined by a large road with runs only a few tens of meters from the sea. A low wall separates the beach from the road. Notwithstanding the indiscriminate parcelling out of the land (the whole area is amazingly crowded with buildings) the negative effect of human activities on the water quality was until now rather negligible, due to the strong currents off the Mazara coast and to the adoption of individual cesspools as aseptic system. The nest was discovered on August 23 1990, during the morning when people on the beach noticed juveniles of C. caretta reaching the sea, while other specimens were lying dead a few meters from the water. About 30 cm in diameter and 50 cm deep, the nest was located close to the small wall which separates the beach from the road. The authors, informed immediately of the event, recovered six live specimens and twelve dead ones. Those alive were brought to the sea, while the others were preserved in formalin. The preserved specimens are between 39 and 44 mm (SCL) long and weigh between 12 and 14 gr. From the shell fragments an estimate of the size of the eggs of about 30x50 mm was derived. Our observations, together with the information obtained by people on the beach, indi

gr. From the shell fragments an estimate of the size of the eggs of about 30x50 mm was derived. Our observations, together with the information obtained by people on the beach, indicate that the first hatching occurred during the night, and that the total number of eggs laid was about 50, which is in agreement with what reported in the literature (BRUNO, 1986; MARQUEZ, 1990). This report confirms that the loggerhead turtle is a common species all throughout the Sicilian vaters, as reported by local fishermen, and that it still reproduces along the Sicilian coasts, in spite of the environmental degradation and the human settlements which obviously constitute a disturbing factor. The fact that this is the first documented nesting of the species on Mazara del Vallo shore since many years (at least since 1983 when our Insitute officially began to operate), can be due to several reasons. Among those depending on the situation on the land, there is the accidental non-disinfection of the beach (usually carried out during May) during spring 1990. It also probable that the proximity of the wall limiting the beach protected the nest from an otherewise almost certain destruction : each year before summer in fact, the debris of seaweeds and seagrasses (mainly *Posidonia oceanica*) which pile up on the shore during manually close to the wall. In any case this record is a quite positive indication of the adaptability of these animals to the changes made to the environment by human communities. It also suggests that we should consider the proposal to protect at least part of the shore (i.e., the beach beyond "Capo Fet"), as it was already decided for other sicilian areas (i.e., Lampeduas Island).



The Gulf of Mazara del Vallo. "Tonnarella" beach is delimited by "Capo Feto" and the Fig. breakwater of the port. The arrow indicates the nest location.

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