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NOTE ON THE FOOD OF THE SPINNER DOLPHIN STENELLA LONGIROSTRIS GRAY, CAUGHT OFF MAHARASHTRA COAST

ABSTRACT

The morphometric measurements of two spinner dolphins and the stomach contents analysis of one of them are presented here.

THE INSTANCES of landings of dolphins incidentally caught in the fishing gear from Indian waters have been recorded earlier by Ferguson (1903), Lai Mohan (1985) and Rajaguru and Natarajan (1985).

The dolphin locally called 'Gada' or 'Himra', accidentally caught in Gill nets locally known as 'Waghra' operated in 45 m depth off Bombay High (near O.N G.C. offshore base) was landed at Sassoon Dock on 11th February 1986 and the one caught

in Gill nets laid in 48 m off Janjira-Murud was landed at New Ferry Wharf on 5th March, 1986. Both the specimens were uniformly dark gray in colour.

The morphometric measurements of two adult male spinner dolphins Stenella longirostris Gray were recorded as given in Table 1. The measurements were taken point-to-point on the right side of the specimen with a metre tape.

Table 1. Morphometric characters (Measuremeuts in mm)

		Place		
Morphometric characters		Sassoon Dock	New Ferry Wharf	
Total length (from mid-caudal bifurcation point to the tip of snout)	.,	1900	2280	
Length between mid-caudal bifurcation point and origin of flipper		1460	1760	
Length between origin of flipper and eye		185	223	
Length between anterior end of eye and tip of snout	٠.	410	492	
Length between eye and base of upper beak	٠.	52	61	
Length of upper beak		215	258	
Length of lower beak upto base of eye		550	659	
Base of upper beak		335	395	
Length from blow hole to the tip of snout		411	488	
Width of blow hole		29	34	
Base of dorsal fin	٠,	258	310	
Height of dorsal fin		182	218	
Circumference of body at origin of dorsal fin		375	448	
Circumference of body at origin of caudal fluke	٠,	137	163	
Length from mid-caudal fluke bifurcation point to the basal insertion p	oint	137	164	
No. of teeth in each jaw (either sides)		108/108	108/108	
Weight of the specimen		128 kg	148 kg	

Stomach contents

The stomach contents of a dolphin landed at Sassoon Dock were brought to the laboratory for analysis which is presented in Table 2.

The species is reported particularly associated with the tuna schools (Perrin, 1969) and feeds upon mesopelagic fishes and

The carcase of the specimen was thrown back into the sea, at Sassoon Dock, as there was no demand from the local people, owing to the sentimental reasons, while the one at New Ferry Wharf was transported by a truck to Alibag about 100 kms south of Bombay. The enquiries with the local fishermen revealed that the flesh of dolphin was consumed by the tribal people in and around Alibag.

Table 2. Stomach contents

Name of fish		Percentage		
Fish remains — Megalaspis cordyla	Length Weight	290 mm 190 gm	} 74.2	
Other fish remains (unidentifiable) Loligo duvaucelii Crab remains		170 gm 115 gm 10 gm	23.7 2.1	

epipelagic and mesopelagic squids (Perrin et al., 1973). In the present case the fish was observed to be dominant food item followed by squids. Tunas are also landed by gill nets (Waghra) during the winter months.

With a view to create an awareness among the fishermen about the endangered status of the marine mammals succh as the spinner dolphin in the present case, the authors have advised the local fishermen to immediately NOTES 195

release back into the sea whenever they come across such animals as an incidental catch in their fishing operations.

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