## Note

# Record size oil sardine (Sardinella longiceps) caught off Malpe, India

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#### Abstract

The report is about the largest specimen of oil sardine (*Sardinella longiceps*) ever recorded from seas around India. The fish measured 272 mm in total length and weighed 159 g.

The largest ever recorded oil sardine (*Sardinella longiceps*) from Indian waters was landed by a purseseiner at Malpe Fishing Harbour in Karnataka on 8th September 2003. The fish measured 272 mm in total length and weighed 159 g in wet condition, and is the longest ever observed along Indian coast (Fig. 1). It was netted off Malpe at a depth of 30 m. The purseseine catch on that day consisted of only oil sardine and the length ranged from 120-185 mm with a mode at 145 mm. The morphometric measurements of the specimen are given in Table 1.

The maximum size of oil sardine recorded so far from seas around India is 225 mm. The fish was caught by *matubale*,

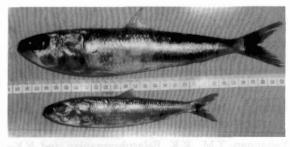


Fig. 1. Record size oil sardine (272 mm) along with the commercial size oil sardine (173mm)

Table 1.	Morphometry	of the	record	size (	oil sardine
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Morphometric character	Measurement	(mm)
Total length	E 15	272
Fork length		240
Standard length		225
Depth of body at dorsal fir	n origin	45.2
Depth of body at anal fin o	origin	29.4
Maximum body depth		47.4
Caudal peduncle depth		14.5
Head length		69.8
Snout length		20.2
Eye diameter		10.8
Inter-orbital width		15.4
Upper jaw length		27.2
Tip of snout to origin of do	orsal fin	104.8
Tip of snout to origin of pe	ectoral fin	70. 03
Tip of snout to origin of pe	lvic fin	124.3
Tip of snout to origin of an	al fin	183.0
Distance between Pelvic fin	to anal fin	56.8
Length of first dorsal fin ba	ise	28.9
Pectoral fin length		37.4
Pelvic fin length		18.8
Length of anal fin base		25.0
Sex (spent recovering stage	) Female	(IIb)
Wet weight (g)		159

Total length (mm)	Gear	Centre	Month/year
225	Matubale	Malpe	July, 1999
215	Trawl net	Malpe	October, 2000
216	Purseseine	Mangalore	November, 2000
216	Purseseine	Mangalore	October, 2001
215	Trawl net	Malpe	May, 2002
272	Purseseine	Malpe	Present report

Table 2. Maximum length (Total length) of oil sardine recorded along Mangalore-Malpe coast

Table 3. L\_ and K values of oil sardine estimated by earlier workers

L <sub>_</sub> (mm)	k/yr	Author	Study area		
209.8 0.6		Antony Raja, 1972	Indian seas		
207.0	0.53	Bannerji, 1973	Indian seas		
197.2	1.01	Kurup et al., 1987	West coast of India		
221.1	0.75	Annigeri et al., 1992	West coast of India		
200.0	2.10	Yohannan et al., 1998	West coast of India		
204.0	1.6	Ganga, 2000	Karwar, west coast of India		
228.0	0.9	Rohit and Uma, 2003	Mangalore-Malpe, West coast of India		

an indigenous gear operated during the monsoon months along Karnataka coast. The largest size of oil sardine landed so far by different gears at Malpe and Mangalore is given in Table 2.

The maximum length of oil sardine reported by Fishbase 1999 (http/www/ fishbase.org) is 23 cm (standard length). FAO species Identification Sheets for Fishery Purposes, Western Indian Ocean, Fishing Area 51, 1984 has reported that oil sardine attains a maximum body length of 20 cm (possibily 23 cm) in standard length.

The growth parameters (L<sub>a</sub> and K) oil sardine estimated by different workers along Indian coasts are given in Table 3.

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