

## Estimation of catches at size for IOTC species

Equations used to convert from fork length to round weight for neritic tuna species

<i>Species</i>	<i>From type measurement – To type measurement</i>	<i>Equation</i>	<i>Parameters</i>	<i>Sample size</i>	<i>Length</i>
Longtail	Fork length – Round Weight <sup>c</sup>	$RND=a*L^b$	a= 0.00002 b= 2.83		Min:29 Max:128
Kawakawa	Fork length – Round Weight <sup>A</sup>	$RND=a*L^b$	a= 0.00000260 b= 2.9		Min: 20 Max: 65
Frigate	Fork length – Round Weight <sup>A</sup>	$RND=a*L^b$	a= 0.00001700 b= 3.0		Min:20 Max:45
Bullet tuna	Fork length – Round Weight <sup>A</sup>	$RND=a*L^b$	a= 0.00001700 b= 3.0		Min:10 Max:40
Narrow- barred king mackerel	Fork length – Round Weight <sup>A</sup>	$RND=a*L^b$	a= 0.00001176 b= 2.9002		Min:20 Max:200
Indo- pacific king mackerel	Fork length – Round Weight <sup>A</sup>	$RND=a*L^b$	a= 0.00001176 b= 2.9002		Min:20 Max:80

**A:** Data from North Indian Ocean: IPTP Sampling Programme in Sri Lanka (1989)

**B:** Data from Indian Ocean: IOTC-2011-WPNT01-10 Tuna Fishery of India with Special Reference to Biology and Population Characteristics of Neritic Tunas Exploited from Indian EEZ

**C:** Data Tunas Indian Ocean: IOTC-2011-WPNT01-18- Population dynamic parameters of *Thunnus tonggol* in the north of the Persian Gulf and Oman Sea; F.Kaymaram, M. Darvishi, F. Parafkandeh, Sh. Ghasemi & S.A. Talebzadeh.