

## *The LENGTH-LENGTH Table in FishBase*

This table contains relationships for the conversion of one length type to another for over 8,000 species of fish, derived from different publications, e.g. Moutopoulos and Stergiou (2002) and Gaygusuz et al (2006), or from fish pictures, e.g. Collette and Nauen (1983), Compagno (1984) and Randall (1997). The relationships, which always refer to centimeters, may consist either of a regression linking two length types, of the form:

$$\text{Length type (2)} = a + b \times \text{Length type (1)} \quad \dots 1)$$

or of a ratio  $b'$ , viz

$$\text{Length type (2)} = b' \times \text{Length type (1)} \quad \dots 2)$$

The available length types are, as elsewhere in FishBase,

TL = total length;

FL = fork length;

SL = standard length;

WD = width (in rays);

OT = other type (to be specified in the **Comment** field).

When a version of equation (1) is presented, the length range, the number of fish used in the regression, the sex and the correlation coefficient are presented, if available.

When a version of equation (2) is presented, the range and the correlation coefficient are omitted, as the ratio in (2) will usually be estimated from a single specimen, or a few fish covering a narrow range of lengths.

Sources are presented in either case, through a MainRef or by reference to one or several fish pictures.

### **Internet**

On the internet, you can access this table after selecting a species from the FishBase search page, [www.fishbase.org](http://www.fishbase.org). In the resulting 'Species Summary' page, go to the 'More information' section and click on the L-L relationship link.

## References

- Collette, B. and C. Nauen. 1983. FAO species catalogue. Vol. 2. Scombrids of the world. An annotated and illustrated catalogue of tunas, mackerels, bonitos and related species known to date. FAO Fish. Synop. 125(2). 137 p.
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- Froese, R. and D. Pauly. Editors. 2000. FishBase 2000: concepts, design and data sources. ICLARM, Los Baños, Laguna, Philippines. 344 p. [NB]
- Gaygusuz, Ö., Ç. Gürsoy, M. Özulug, A.S. Tarkan, H. Acipinar, G. Bilge, H. Filiz. 2006. Conversions of total, fork, and standard length measurements based on 42 marine and freshwater fish species (from Turkish waters). Turk. J. Fish. Aquat. Sci. 6:79-84.
- Moutopoulos, D.K. and K.I. Stergiou. 2002. Length-weight and length-length relationships of fish species of the Aegean Sea (Greece). J. Appl. Ichthyol. 18(3):200-203.
- Randall, J. 1997. Randall's tank photos. Collection of 10,000 large-format photos (slides) of dead fishes. Unpublished.

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