Some Biological Aspects of Skipjack Tuna (*Katsuwonus pelamis*) and Yellowfin Tuna (*Thunnus albacares*) Caught by Purse Seine of F.R.V. Mahidol in the Eastern Indian Ocean

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Abstract

Study on some biological aspects of skipjack tuna and yellowfin tuna caught by purse seine in the Eastern Indian Ocean by F.R.V. Mahidol during February-May 2011 to March-May 2012. It was found that fork length of skipjack tuna and yellowfin tuna were ranged 30.50-64.00 cm (0.80-4.60 kg) and 30.50-118.00 cm (0.50-25.20 kg) whilst the average sizes were 37.80±4.77 and 70.30±29.41 cm, respectively. The average size of skipjack tuna and yellowfin tuna were less than size at first maturity. The relationship between fork length (cm) and body weight (kg) of skipjack tuna and yellowfin tuna were $W = 0.0000003L^{4.0566}$ and $W = 0.0000207L^{2.9582}$, respectively. Sex ratio between male:female of skipjack tuna and yellowfin tuna were 1:0.45 and 1:1, respectively. The percentage of matured and immaturity of skipjack tuna were 8.33 and 91.67 and yellowfin tuna were 11.54 and 88.46, respectively. The matured fishes of skipjack tuna were spent and males of yellowfin tuna were ripening.

**Key words**: biological aspects, purse seine, Eastern Indian Ocean

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