

Reproductive Biology of Torpedo Scad (*Megalaspis cordyla* (Linnaeus, 1758)) in the Andaman Sea Coast of Thailand

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Abstract

Reproductive biology of Torpedo scad (*Megalaspis cordyla* (Linnaeus, 1758)) in the Andaman Sea Coast of Thailand was studied during January to December 2007. The data was collected from purse seiners and trawlers, landed at fishing ports in Phang-nga, Phuket and Satun Provinces. The fishing grounds were in the areas of Ko Surin, Phang-nga Province to Ko Adung, Satun Province. The results showed the fork length (FL) and body weight (W) relationship of the fish which have length between 6.10-47.30 (26.71±8.57) centimeter and body weight between 6.45–1,449 (326.69±263.35) gram was $W=0.0217 FL^{2.8503}$, the male fish which have length 15.90-47.30 (29.86±6.48) centimeter and body weight between 58–1,449 (401.49± 250.99) gram was $W=0.0139 FL^{2.9840}$ and the female fish which have length 15.00-47.10 (30.17±6.54) centimeter and body weight 65-1,400 (410.67±252.68) gram was $W=0.0147 FL^{2.9663}$. Sex ratio of male : female was 1:1. The sizes at first maturity of male and female were 25.45 and 28.42 centimeter respectively. Spawning season could be found between June to March with peak in March and December. Spawning grounds were found in the areas of Ko Surin, and west coast of Phang-nga Province, west and east of Phuket Province, south of Ko Phi Phi to south of Ko Talibong in Trang Province and around Ko Tong and Ko Adung, Satun Province. The average fecundity was 372,158.46±253,143.84 eggs with the average egg diameter of 0.55±0.08 mm. The relationship between fork length (FL) and fecundity (F) was $F=0.0000027FL^{7.0026}$.

Key words: reproductive biology, torpedo scad, *Megalaspis cordyla* (Linnaeus, 1758), Andaman Sea

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