**Parameters of stock assessment of***Trisopterus luscus***(Linnaeus, 1758) living in the Moroccan central Atlantic waters**

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A total of 2210 individuals of the fish *Trisopterus luscus* (11≤ Lt ≤32 cm) were sampled between January 2018 and December 2019 in the Agadir commercial fishing landings. The sizes of the specimens were measured (Lt, cm) and the weight is evaluated (gr.). The data is processed with FISAT II software. Production was significant during the year 2019 with 246744.5 kg. Parameters such as asymptotic length, growth coefficient, performance index, fishing mortality and exploitation rate obtained are respectively:

L∞ = 35.75 cm; K = 0.51 yr-1; Ø’ = 4.04; F = 0.91 yr-1 and E = 0.50.

The results show that *T. luscus* has a good growth performance (Ø’ = 4.04) in Moroccan central Atlantic waters. Furthermore, this fish suffers fishing mortality (F = 0.91 year-1) that is much more than natural mortality (M = 0.89 year-1). In addition, *T. luscus*is in a normal state of exploitation with an exploitation rate (E = 0.50) higher than the maximum exploitation rate (Emax = 0.42). Therefore, it is necessary to draw attention of decision-makers to the regulation of the fishing of this species to avoid the collapse of the stock.

**Keywords:***Trisopterus luscus* – Fish, Growth - Exploitation – Moroccan central Atlantic waters.