



Serial No. 2095
(D.c.8)

ICNAF Res.Doc. 68/100

ANNUAL MEETING - JUNE 1968

Some observation on the selectivity of
trawl nets with the Polish-type topside shafer

by

Rui Monteiro

(Instituto de Biologia Maritima, Lisboa, Portugal)

During 1967 we have made some observations in Division 3L of the ICNAF area with the purpose of comparing the selection characteristics of the topside chafers used by the Portuguese trawlers and those of the Polish type described by STRZYZEWSKI (1966).

The results obtained for cod showed us that the chafers employed in our vessels were not convenient and, for that reason, the National Commission for the Northwest Atlantic Fisheries proposed a new regulation, afterwards approved and published in the Official Diary which prohibits, for stern trawlers, all the topside chafers except the Polish type due to the fact that the selection factors are similar to those obtained without chafers or are even bigger (BOHL, 1967).

Vessel: sterntrawler, 2700 GT and 2580 h.p.c.

Codend: 168 x 32 meshes

Material - Polyethylene, double braided twine

(16 x 4 filaments each) with 4.5 mm ϕ .

Mesh size- 103.8 mm (average of 60 measurements)

Chafer: (Polish type) : 85 x 26 meshes

Material - The specified for the codend

Mesh size - 215 mm

Cover: 500 x 242 meshes

Material - Polyethylene, single braided twine

(16 x 4 filaments each) with 2.3 mm ϕ

Mesh size - 40 mm

Average duration of the hauls (hours) + 2 to 4

Average towing speed (knots) : 3.5 to 5.5

Mesh gauge : ICES (4 kg pressure)

The chafer, covering completely the upper part of the codend, has been attached mesh-to-mesh along the upper part, the selvages and the second row of the codend. Some meshes of the chafer were also laced to the codend in order to maintain such a relative position that one mesh of the chafer covers four meshes of the codend.

As we can see from the figure, the selection range reveals quite a sharp selection (8 cm).

The calculated selection factor for cod (3.95) agrees with the previous observations made by other authors and, particularly with BOHL (1967) in being bigger than the value indicated by this author for the hauls without chafer.

PORTUGAL-1967

Topside chafer (Polish type) - Selectivity

