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Selectivity of Haddock and Whiting by an Ulstron Cod-end

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Material and Methods

Selectivity studies using an Ulstron cod-end to fish haddock and whiting were conducted on R.V. ERNEST HOLT during the period 29th August to 14th September, 1963. The cod-end was of tarred double Ulstron of nominal mesh size 70 mm, and was used with a fine mesh top-side cover on a Granton trawl also of tarred Ulstron. Haddock selectivity data were obtained in the West of Scotland and Minch areas, and whiting data from grounds in the Minch, S.E. of Ireland and S.W. of Cornwall. Cod-end meshes were measured with an I.C.E.S. mesh gauge.

Results

The results for haddock and whiting are summarised in Table 1, and selection ogives are given in Figure 1. Selection factors obtained were 3.6 for haddock and 4.2 for whiting.

Table 1.

Species	Mean Mesh Size (mm)	50% Retention Length (cm)	Selection Factor	Selection Range (cm) 25%-75%
Haddock	69.8	24.8	3.6	5.0
Whiting	69.3	29.0	4.2	5.0 (Cont. below)

Species	Number of hauls	Total No. of fish (a) in cod-end (b) in cover	No. of fish in Selection Range (a) in cod-end (b) in cover
Haddock	11	(a) 4084 (b) 1301	(a) 1226 (b) 1180
Whiting	6	(a) 551 (b) 509	(a) 247 (b) 296