Restricted

## INTERNATIONAL COMMISSION FOR



THE NORTHWEST ATLANTIC FISHERIES

Serial No. 2802 (B.g.14)

ICNAF Res.Doc. 72/75
(also ICES/ICNAF Salmon
Doc. 72/11)

## ANNUAL MEETING - JUNE 1972

## Geographical and Seasonal Distribution of the Danish Offshore Salmon Fishery at West Greenland in 1971

bу

## O. Christensen

In the 1971-season 11 Danish vessels participated in the offshore salmon fishery in West Greenland waters. The fishery was carried out exclusively by means of drift nets.

The nets operated were of varying efficiency which cannot be ignored when catch-per-unit-effort figures are considered. The main reason for the variance is difference in mesh size, but also diversity of rigging is responsible.

While 8 vessels started the fishery 1 August and left off in mid or late October, 3 participants did not enter the fishery until the last half of August or mid September. In return 2 of these continued fishing until early November.

A significant part of the fishery was concentrated within the 3 miles fishing limit. Only in a few cases Danish vessels tried drift netting farther offshore than 30 naut. miles.

On basis of diaries from 9 vessels representing 89 % of the Danish total yield it is attempted to give an idea of the geographical and seasonal distribution of the Danish drift net fishery and to give estimates on the relative density of the solmon stock. For this purpose data on effort and catch are compiled according to a classification on areas and periods.

The salmon fishing season is divided in 7 half-monthly periods; - as far as the Danish vessels are concerned the season lasted from 1 August to 8 November.

The solmon fishing grounds off West Greenland have been grouped within 6 areas along the coast from Disko in the north to Julianehab in the south, Fig. 1. By preference deeps between offshore banks, separating fishing grounds, where salmon fishing were concentrated, are selected as northern and southern limits of the areas. The exact limits are defined by the latitudes stated in Fig. 1 where also the line running at a distance of 30 naut. milet from the shore is shown. As stated above only few nets were operated cutside this limit.

- 2 -

The areas are referred to by the following common fishing grounds:

- I Disko Bank and coastal bank east of Disko.
- II Store Hellefisk Bank.
- III Lille Hellefisk Bank.
- IV Sukkertoppen Bank and Fylla Bank,
- V Fiskenss Bank and Dana Bank.
- VI Coastal bank east and south of Arsuk.

In Table 1 effort data (number of net x sets) and catch data (number of salmon netted) from 9 vessels are grouped according to time and location of fishing. Corresponding figures on catch per unit effort (number of salmon caught per loc nets x sets) are stated too.

In order to facilitate the survey on the various values a graphical representation of the table is drawn up, Fig. 2. Effort is represented by a square (5 mm x 5 mm: 400 nets x sets) and catch is indicated by a hatched area (5 mm x 5 mm: 400 salmon). The relation between the size of the two signatures is a direct measure of catch per unit effort; e.g. a completely hatched square represents a catch of loc salmon per loc nets.

Distribution by areas and periods of effort, catch and catch per unit effort of 9 Danish vessels drift-netting at West Greenland in 1971. (fr number of nets x sets, Cr number of salmon, C/fr number of salmon per loo nets x sets).

#i	Pertods	August	ust	Sept	ember	Oct	ober	Мочеть	Over 1
		1 - 15	16 - 31	1 - 15	15 16 - 30	1 - 15 16	16 - 31	1 8	rotal per
	40 <del>%</del>		400 218 25	\$ 8 8 51		1600 620 23	94 84 9,0	-	6700 4130 <u>62</u>
	r c c/£	400 123	5500 3084 <u>26</u>	96 424 4 <u>7</u>	4800 2874 <u>60</u>	18306 14971 <u>82</u>	12970 3041 <u>23</u>	1500 213 14	44376 25097 <u>51</u>
	ر در در	35620 33620 21	44473 49793 112	15322 14516 25	31631 33204 <u>105</u>	14706 5203 25	2400 315 13		145423 136651 24
	τ ο ο	6400 7123 111	2200 1761 <u>81</u>	3000 2957 29		1100 456 41			12700 12317 27
	رد درد درد	500 18 7	88 8	4500 3828 <b>92</b>	1500 1079 72	3700 2792 25	200 7 4		10400 7886 <u>76</u>
	رد درد د			8021 7060 98		ļ			8021 7060 88
Total per half- months	ر در در	43891 41251 24	53073 55038 <u>104</u>	35843 38053 18053	77931 77157 28	39412 24042 <u>61</u>	15970 3387 <u>21</u>	1500 213 14	227620 193141 <u>95</u>

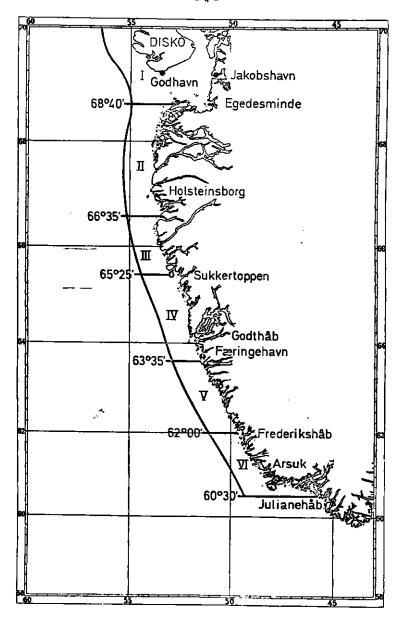


Fig. 1. Geographical division of the offenore salmon fishery at West Greenland in 1971.

