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Length.ages.growth of cod in Subareas -1-2-3-(1.965)

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The present report is based on observations made on board commercial trawlers by one member of the "Bochorno" ship of the Cod Fishery Company PYSBE in Subareas 1, 2, and 3, The samples were taken, at random, for data on length and age composition, and sex ratio.

For the age-length keys we have used a subsample obtained from the initial random samples by choosing a number of otoliths, in each 3-cm length class (2 males and 2 females if possible)

SUBAREA 1

I. Cod

Samples were obtained in Div. 1B between 1 and 7 September as follows:

Sample nº	Date	Depths (m)	Nº Lengths	Nº Aged
1-7	1-7 Sept.	28-115	3,981	38

a. Lengths (Fig. 1) ranged from 34 to 97 cm classes. The mean length is: 52'36 cm.

b. Ages (Fig. 1)

The age-group V (1960 year class) is dominant followed by the VI (1969 year class) in this month of September.

c. Growth is shown in the following table of average lengths (figures in brankets are number of fish)

TABLE I

Age Group	3 rd Quarter September		
V	61'0 (10)		
VI	67'0 (8)		
AII	74'0 (2)		
VIII	7910 (2)		
IX	-		
X	-		
XI	-		
XII	10010 (1)		

d. Sex ratio

There were 48'1 % of males and 51'9 % of females.

SUBAREA 2

I. Cod

Samples were taken from the 2J division from 11 September to 14 November, as follows:

Sample Group	Sample Nº	Date	Depths (m)	Nº Length	Nº Aged
A	8-25	11=30 Sept.	135-272	13,736	54
В	26-38	1-13 Octobe:	r 150-290	9,667	52
C	39-47	1-14 Novemb	. 179–274	6,457 29,860	25 131

a. Lengths

In division 2J (Fig. 2) lengths ranged from 25 cm to 127 cm classes (September from 28 to 118; October, 25 to 127 and November from 28 to 106 cm classes).

Mean lengths were: A = 51'12 cm, B = 51'4 cm, C = 51'33 cm. b. Ages

In division 2J (Fig. 2) age-group VIII (1957 year class) is dominant followed by age-group IX (1956 year class)

c. Growth

(Figures in brackets are number of fish)

TABLE II

Age Group	3rd Quarter September	4th Quarter October November
VIII VIII XX XX XIII XIII	59'0 (1) 61'3 (3) 60'8 (6) 69'0 (1) 71'8 (4) 76'5 (2) 80'0 (3)	63'0 (1) 64'0 (2) 63'8 (5) 68'8 (5) 74'7 (3) 78'5 (2) 82'0 (2) 84'0 (1)
XIV	· -	88'0 (1) - 85'7 (3) -
XVI XVII	, =	97'0 (2) -
XVIII	-	-
XX	10210 (1)	92'5 (2) -
XXI	-	
XXIV	9810 (1)	- -

d. Sex ratio

There were 29'8 % of males and 70'2 % of females distributed as follows:

	September	October	Novemb er
Males	28 • 9%	27 1 2%	4613%
Females	71'1%	72	53 • 7%

SUBAREA 3

I. Cod

Samples were taken from the landings from 26 July to 23 November in Division 3K and from 19 to 25 July in Div. 3L, as follows:

For Div. 3K

Sample Group	Sample Nº	<u>Date</u>	Depths(m)	Nº Lengths	Nº Aged
A	48-53	26-31 July	210 –290	4.010	 47
В	54-72	1-27 August	160-290	12.001	57
C	73-81	3-23 November	er 170-315	4.817	32
		•		20.828	136
For Div. 3L					
	82-88	19-25 July	155-245	2.563	61
For Div. 3M					
	89-100	17-29 October	214-290	8.930	37

a. Lengths

In div. 3K (Fig. 2) lengths ranged from 31 to 136 cm classes with a relatively small variation between months (34-121 in July; 34-136 in August; 31-124 in November).

Mean lengths were: A = 57'01 cm; B = 53'94 cm; C = 52'75 cm.

In div. 3L the lengths ranged from 31 to 133 cm classes, mean length being: 58'00 cm.

In div. 3M the lengths ranged from 28 to 130 cm classes average length was = 54'23 cm.

b. Ages

In div. 3K (Fig. 2) the VII and IX age-group is dominant in July; in August is the VIII and in November the IX.

In div. 3L (Fig. 1) the VII age-group (1958 year class) is dominant.

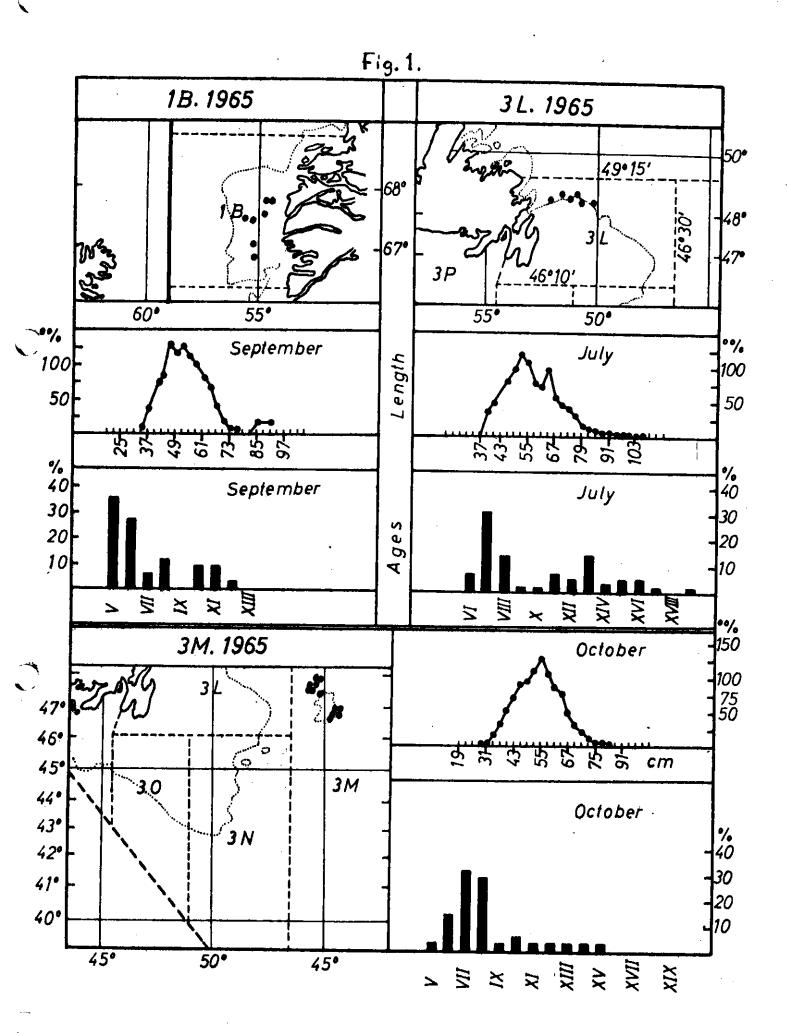
In div. 3M (Fig. 1) the VII age-group is dominant followed by the VIII age group.

c. Growth

(Figures in brackets are number of fish)

Division 3K

Age	2nd Qı	uarter	3rd Quarter
Group	<u>July</u>	August	November
VIII VIII XIV XIII XIII XIV XV XV XVI XVI	45,2 (4) 54'8 (5) 55'0 (1) 63'1 (9) 64'0 (7) 78'0 (5) 82'0 (2)	47'0 (2) 55'8 (6) 55'7 (8) 60'6 (6) 70'0 (3) 74'5 (2) 87'0 (1) 83'0 (2) 87'5 (2) 96'0 (1)	79'5 (2) 87'0 (1) 72'0 (2) 74'2 (5) 71'3 (3) - 79'5 (2) 80'0 (1) 87'0 (1)





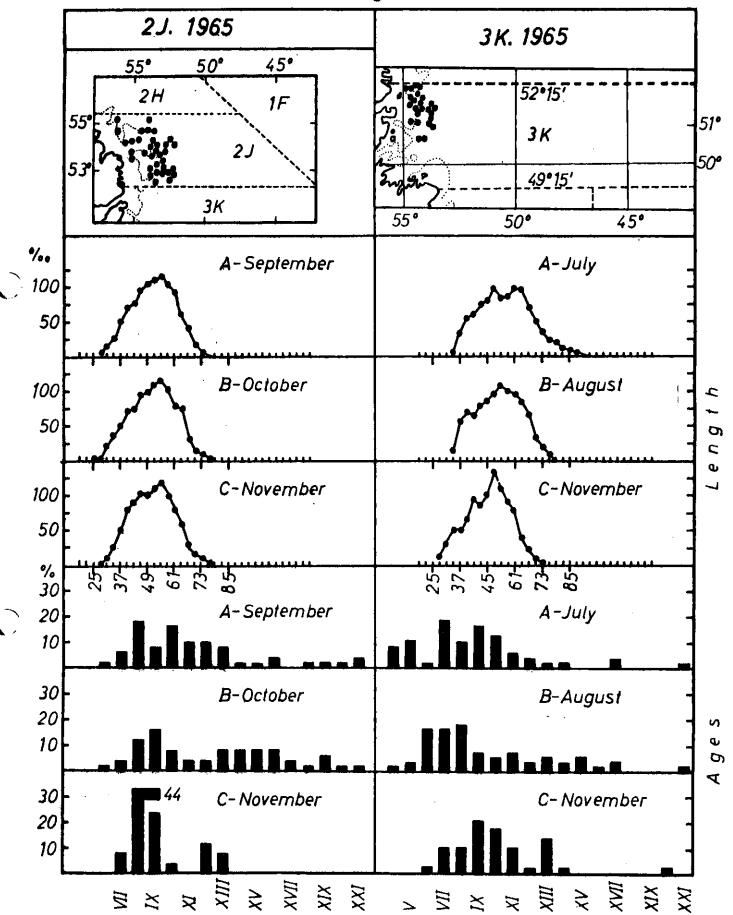


Fig. 3

